Analytical Resources, LLC
Analytical Chemists and Consultants

09 June 2023

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

RE: AOC5 MR Phase 1

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

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

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

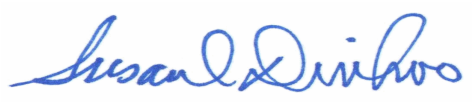
Associated Work Order(s)	Associated SDG ID(s)
23C0071	N/A

Susan Dunnihoo
Digitally signed by Susan Dunnihoo
Date: 2023.06.09 09:53:00 -07'00'

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

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

Analytical Resources, LLC



Susan Dunnihoo, Director, Client Services

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

Cert# 100006-012

1 of 1

CHAIN-OF-CUSTODY/TEST REQUEST FORM

№ 4055

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

Ship to: ARL
Attn: Sue Dumhoo
Shipper: Carrier
Form filled out by: TDO/AV

Shipping Date: 3/2/23
Airbill Number: —
Turnaround requested: Std

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) PCBs	SMS SVOCs	SMS Metals	TOC/TotalSolids	DIF	Archive		Comments / Instructions [Jar tag number(s)]
03.02.23	0933	LDW23-SS1000	4	Sediment.	X	X	X	X	NA	X		
	0956	LDW23-SS1037	4	Sediment	X	X	X	X	X	X		
	1010	LDW23-SS 1036	4	Sediment	X	X	X	X	NA	X		
	1022	LDW23-SS 1044	4	Sediment	X	X	X	X	NA	X		
	1032	LDW23-SS1045	4	Sediment	X	X	X	X	NA	X		
	1041	LDW23-SS 1054	4	Sediment	X	X	X	X	NA	X		
	1050	LDW23-SS 1056	4	Sediment	X	X	X	X	NA	X		
	1156	LDW23-SC1054	3	↓	X	—	—	X	—	X		
	1227	LDW23-SC1048	3	↓	X	—	—	X	—	X		
	1409	LDW23-SC1036	3	Sediment	X	—	—	X	—	X		
		Total Number of Containers	37	Purchase Order / Statement of Work # APJ-110222-AOCS-ARL								

1) Released by:	1) Rec'd by:	2) Released by:	2) Rec'd by:
Print name: Amara Vandervoort	Phillip	Print name:	
Signature:	Company: AR	Signature:	Company:
Company: Windward	Date/Time: 3/2/23 16:34	Company:	
Date/Time: 3/2/2023 1634		Date/Time:	Date/Time:

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

To be completed by Laboratory upon sample receipt:

Date of receipt:: 3/2/23	Laboratory W.O. #: 23C0071
Condition upon receipt: good	Time of receipt: 16:34
Cooler temperature: 4.6, 2.3	Received by: Phillip BatOS

Wind Ward environmental LLC
200 1st Ave W, Suite 500
Seattle, WA 98119
206.378.1364

23C0071

Fw: 03/02/23 COC update

Susan D. Dunnihoo
She/her/hers

Analytical Resources, LLC

(206) 695-6207 office
sue.dunnihoo@arilabs.com

www.arilabs.com

Sample LDW23-SS1056 collected 3/2/23 at 1050 was incorrectly entered on the COC. This sample is a Tier 2 sample so all jars should be archive/on hold, please.

Amara Vandervort

amarav@windwardenv.com | www.windwardenv.com

03/02/23 COC update

Amara Vandervort <amarav@windwardenv.com>

Thu 3/2/2023 9:34 PM

To: Sue Dunnihoo <limsadm@arilabs.com>;Anastasia Barr <anastasiab@windwardenv.com>

Hello,
Sample LDW23-SS1056 collected 3/2/23 at 1050 was incorrectly entered on the COC. This sample is a Tier 2 sample so all jars should be archive/on hold, please.

Thank you.

Amara Vandervort

Associate

Direct line: 206-812-5415

E-mail: amarav@windwardenv.com | www.windwardenv.com

200 First Avenue West, Suite 500 | Seattle, WA 98119

Analytical Resources, LLC
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Windward / Anchor QEA
Project Name: AOCS MR Phase 1
COC No(s): 4055 NA
Delivered by: Fed-Ex UPS Courier Hand Delivered Other:
Assigned ARI Job No: 23C0071
Tracking No: NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler?	YES	NO
Were custody papers included with the cooler?	YES	NO
Were custody papers properly filled out (ink, signed, etc.)	YES	NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry) 4.5 2.3
Time 16:50
If cooler temperature is out of compliance fill out form 00070F
Temp Gun ID#: 300 9708
Cooler Accepted by: PIB Date: 3/2/23 Time: 16:34

Complete custody forms and attach all shipping documents

Log-In Phase:

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

Were the sample(s) split by ARI? NA YES Date/Time: Equipment: Split by:

Samples Logged by: PIB Date: 3/3/23 Time: 10:52 Labels checked by: PIB

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

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: Date:

Anchor QEA, LLC	Project: AOC5 MR Phase 1	
1201 3rd Ave, Suite 2600	Project Number: 210075-01.02	**Reported:**
Seattle, WA 98101	Project Manager: Ali Judkins	06/09/2023 08:54

ANALYTICAL REPORT FOR SAMPLES

Laboratory ID	Sample ID	Matrix	Date Sampled	Date Received
23C0071-01	LDW23-SS1000	Solid	03/02/23 09:33	03/02/23 16:34
23C0071-02	LDW23-SS1037	Solid	03/02/23 09:56	03/02/23 16:34
23C0071-03	LDW23-SS1036	Solid	03/02/23 10:10	03/02/23 16:34
23C0071-04	LDW23-SS1044	Solid	03/02/23 10:22	03/02/23 16:34
23C0071-05	LDW23-SS1048	Solid	03/02/23 10:32	03/02/23 16:34
23C0071-06	LDW23-SS1054	Solid	03/02/23 10:41	03/02/23 16:34
23C0071-07	LDW23-SS1056	Solid	03/02/23 10:50	03/02/23 16:34
23C0071-08	LDW23-SC1054	Solid	03/02/23 11:56	03/02/23 16:34
23C0071-09	LDW23-SC1048	Solid	03/02/23 12:27	03/02/23 16:34
23C0071-10	LDW23-SC1036	Solid	03/02/23 14:09	03/02/23 16:34

Anchor QEA, LLC	Project: AOC5 MR Phase 1	
1201 3rd Ave, Suite 2600	Project Number: 210075-01.02	**Reported:**
Seattle WA, 98101	Project Manager: Ali Judkins	09-Jun-2023 08:54

Case Narrative

Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Work Order: 23C0071

Sample receipt

Samples as listed on the preceding page were received 02-Mar-2023 16:34 under ARI work order 23C0071. For details regarding sample receipt, please refer to the Cooler Receipt Form. Samples were frozen on receipt to preserve holding times.

Per email from the client, sample LDW23-SS1056 collected 3/2/23 at 1050 was incorrectly entered on the COC and all jars were archived.

Semivolatiles - EPA Method SW8270E

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

Initial and continuing calibrations were within method requirements.

Internal standard areas were within limits.

The surrogate percent recoveries were within control limits.

The method blank(s) were clean at the reporting limits, with low level response for phenol.

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

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

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

Semivolatiles - EPA Method SW8270E-SIM

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

Initial and continuing calibrations were within method requirements.

Internal standard areas were within limits.

The surrogate percent recoveries were within control limits.

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

The blank spike duplicate BSD/LCSD) spike recovery for pentachlorophenol was high of control limits, and the relative percent differences (RPD) for 2,4-dichlorophenol was high of control limits, flagged on the summary sheet. As the pentachlorophenol bias was high and the MS/MSD/SRM recoveries were within advisory control limits, no further corrective action was taken.

The matrix spike/matrix spike duplicate (MS/MSD) percent recoveries were within advisory control limits. The relative percent difference (RPD) for 2,4-dimethylphenol was outside of advisory control limits and flagged on the summary sheet.

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Case Narrative

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

Pesticides - EPA Method SW8081B (Hexachlorobenzene)

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

Tetrachloro-m-xylene was low of limits for SLC0442-ICV1, SLC0442-CCV1, SLC0442-CCV3 and SLC0442-CCV4 on the first column.

Internal standard areas were within limits.

The surrogate percent recoveries were within control limits.

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

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

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

PCB Aroclors - EPA Method SW8082A

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

Several calibrations failed high for aroclor 1260 in the SLC0203 sequence on the ZB5 column. The internal standard hexabromobiphenyl (HBBP) fails low on the ZB5 column for several standards and samples, attributed to the continued matrix effect of this sample set. All affected results are reported from the ZB35 column.

The surrogate percent recoveries were within control limits.

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

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

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

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

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

The analyst noted samples LDW23-SS1054 and LDW23-SC1054 appear to be a mixture of aroclor 1242/1248, but all response has been reported as aroclor 1248.

Total Metals - EPA Method 6020B

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

Several calibrations in sequence SLE0204 showed lead above control limits. Affected samples were not reported from this run. SLE0204-CAL3 showed scandium high, attributed to instrument maintenance and the calibration was rerun. SLE204-HCV1 showed indium-1 to be noisy. No action was required with all cadmium at low levels. SLE0204- IFA showed

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Seattle WA, 98101

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

Reported:
09-Jun-2023 08:54

Case Narrative

cadmium-53 high.

Calibration SLE0209-CAL4 had indium-1 noted as slightly noisy, with %R and analytes noted as okay. SLE0209-CCVN and SLE0209-CCVP showed chromium low, and affected analytes were not reported. SLE0209-IFA showed chromium-53 high.

Sample LDW23-SC1054 was noted to be noisy in standard mode and affected analytes were not reported.

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

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

The batch BLD0452 duplicate (DUP) relative percent difference (RPD) were high of advisory control limits for chromium and copper, reported under work order 23A0419.

The batch BLD0452 matrix spike (MS) percent recovery was high of advisory control limits for lead and copper. The matrix spike duplicate (MSD) percent recovery and relative percent difference (RPD) were within advisory control limits. The post spike had an acceptable recovery, reported under work order 23A0419.

Total Mercury - EPA Method 7471B

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

Initial and continuing calibrations were within method requirements.

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

The blank spike (BS/LCS) percent recovery was within control limits.

The batch BLD0453 duplicate (DUP) relative percent difference (RPD) were within advisory control limits, reported under work order 23A0419.

The batch BLD0453 matrix spike/matrix spike duplicate (MS/MSD) percent recoveries and relative percent differences (RPD) were within advisory control limits, reported under work order 23A0419.

Wet Chemistry (Total Organic Carbon and Total Solids)

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

Initial and continuing calibrations were within method requirements.

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

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

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

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

Dioxin/Furans - EPA Method 1613

The sample(s) were extracted and analyzed within the recommended holding times for samples stored frozen. Analysis was performed using an application specific column developed by Restek. The RTX-Dioxin2 column has unique isomer separation for the 2378-TCDF, eliminating the need for confirmation analysis.

Anchor QEA, LLC	Project: AOC5 MR Phase 1	
1201 3rd Ave, Suite 2600	Project Number: 210075-01.02	**Reported:**
Seattle WA, 98101	Project Manager: Ali Judkins	09-Jun-2023 08:54

Case Narrative

SLD0330-CCV3 showed 13C12-1,2,3,6,7,8-HxCDD outslide limits low.

The cleanup surrogate percent recoveries were within control limits.

The method blank(s) were clean at the reporting limits, with response or EMPC response below the reporting limit. Associated positive results have been "B"-flagged.

The OPR (Ongoing Precision and Recovery) standard percent recoveries were within control limits.

The duplicate (DUP) relative percent difference (RPD) were outside advisory control limits for 1,2,3,7,8,9-HxCDF and OCDF.

The reference material (SRM) percent recoveries high of control limits have been flagged on the summary sheet.

Revised 06/09/2023 to include dioxin SRM data missing from initial report.

QUALIFIERS AND NOTES

Qualifier	Definition
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
P1	The reported value is greater than 40% difference between the concentrations determined on two GC columns where applicable.
L	Analyte concentration is <=5 times the reporting limit and the replicate control limit defaults to +/- RL instead of 20% RPD
J	Estimated concentration value detected below the reporting limit.
HC	The natural concentration of the spiked analyte is so much greater than the concentration spiked that an accurate determination of spike recovery is not possible
H	Hold time violation - Hold time was exceeded.
EMPC	Estimated Maximum Possible Concentration qualifier for HRGCMS Dioxin
D	The reported value is from a dilution
B	This analyte was detected in the method blank.
*	Flagged value is not within established control limits.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

ICP-MS Metals

Analyzed with Secondary Isotopes

ICPMS metals are quantitated with the primary Ion and major wavelength unless interference is noted. When secondary ions are used for quantitation, both ions will be reported for laboratory and matrix QC.

These results were reported from a secondary ion:

Labnumber	SampleName	Analyte
23C0071-01	LDW23-SS1000	Copper-65
23C0071-03	LDW23-SS1036	Copper-65

Analytical Resources, LLC
Analytical Chemists and Consultants

LDW23-SS1000

Form I

ORGANIC ANALYSIS DATA SHEET

EPA 8270E

Semivolatiles (20ug/kg - 0.2ug/L SepF)

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0071-01 A	SDG:	23C0071
Sampled:	03/02/23 09:33	Prepared:	03/07/23 10:21	File ID:	NT1003212310.D
% Solids:	46.24	Preparation:	EPA 3546 (Microwave)	Analyzed:	03/21/23 22:56
Batch:	BLC0109	Sequence:	SLC0451	Initial/Final:	21.73 g Wet / 1 mL
Instrument:	NT10	Column:	ZB-5MSi	Calibration:	GC00046
Cleanups:	GPC				

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
108-95-2	Phenol	1	45.4		4.4	19.9
106-44-5	4-Methylphenol	1	16.4	J	7.4	19.9
91-20-3	Naphthalene	1	113		4.2	19.9
91-57-6	2-Methylnaphthalene	1	35.2		4.5	19.9
208-96-8	Acenaphthylene	1	12.6	J	6.2	19.9
131-11-3	Dimethylphthalate	1	19.9	U	4.4	19.9
83-32-9	Acenaphthene	1	20.7		5.2	19.9
132-64-9	Dibenzofuran	1	18.7	J	14.1	19.9
86-73-7	Fluorene	1	22.0		14.5	19.9
85-01-8	Phenanthrene	1	98.6		8.7	19.9
120-12-7	Anthracene	1	86.4		7.2	19.9
206-44-0	Fluoranthene	1	202		6.1	19.9
129-00-0	Pyrene	1	198		5.7	19.9
85-68-7	Butylbenzylphthalate	1	15.8	J	9.4	19.9
56-55-3	Benzo(a)anthracene	1	110		5.9	19.9
218-01-9	Chrysene	1	191		6.0	19.9
117-81-7	bis(2-Ethylhexyl)phthalate	1	128		5.4	49.8
	Benzofluoranthenes, Total	1	295		10.0	39.8
50-32-8	Benzo(a)pyrene	1	113		4.2	19.9
193-39-5	Indeno(1,2,3-cd)pyrene	1	66.2		14.6	19.9
53-70-3	Dibenzo(a,h)anthracene	1	24.1		17.1	19.9
191-24-2	Benzo(g,h,i)perylene	1	74.7		13.5	19.9

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorophenol	746.42	452	60.6	27 - 120	
Phenol-d5	746.42	469	62.8	29 - 120	
2-Chlorophenol-d4	746.42	514	68.8	31 - 120	
1,2-Dichlorobenzene-d4	497.61	318	64.0	32 - 120	
Nitrobenzene-d5	497.61	345	69.4	30 - 120	
2-Fluorobiphenyl	497.61	360	72.3	35 - 120	

Analytical Resources, LLC
Analytical Chemists and Consultants

LDW23-SS1000

Form I

ORGANIC ANALYSIS DATA SHEET

EPA 8270E

Semivolatiles (20ug/kg - 0.2ug/L SepF)

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0071-01 A	SDG:	23C0071
Sampled:	03/02/23 09:33	Prepared:	03/07/23 10:21	File ID:	NT1003212310.D
% Solids:	46.24	Preparation:	EPA 3546 (Microwave)	Analyzed:	03/21/23 22:56
Batch:	BLC0109	Sequence:	SLC0451	Initial/Final:	21.73 g Wet / 1 mL
Instrument:	NT10	Column:	ZB-5MSi	Calibration:	GC00046
Cleanups:	GPC				

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2,4,6-Tribromophenol	746.42	722	96.8	24 - 134	
p-Terphenyl-d14	497.61	351	70.5	37 - 120	

Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212310.D

Date : 21-MAR-2023 22:56

Client ID:

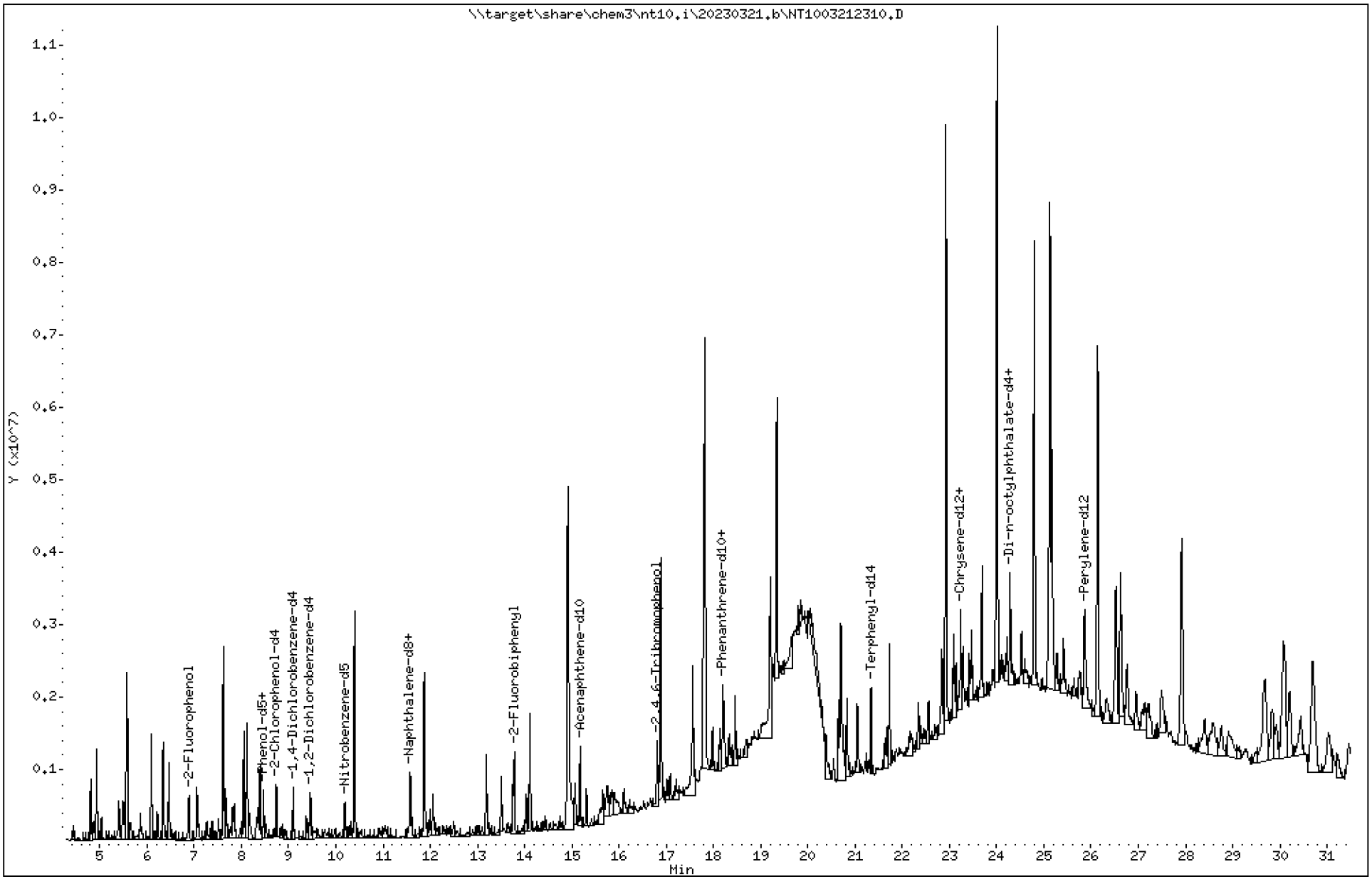
Instrument: nt10.i

Sample Info: 23C0071-01

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212310.D

Date : 21-MAR-2023 22:56

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-01

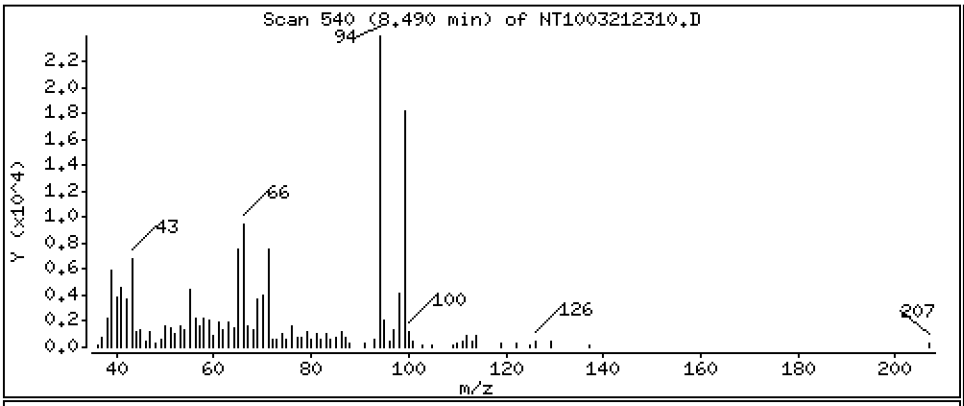
Operator: VTS

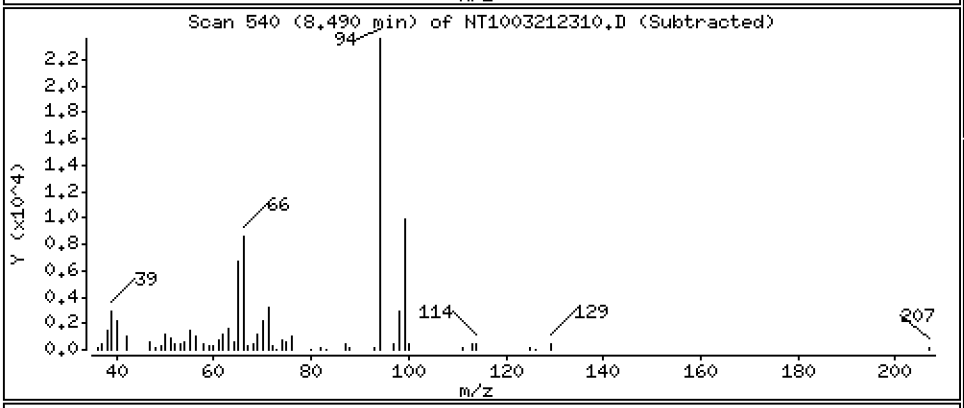
Column phase: ZB-5msi

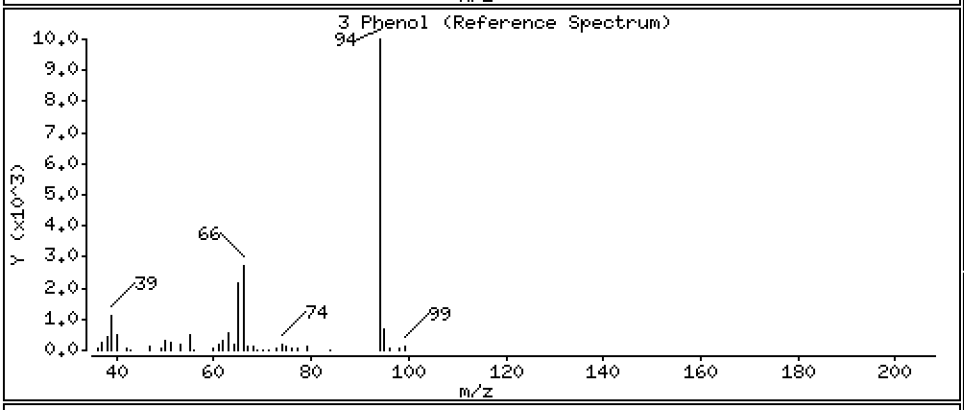
Column diameter: 0.25

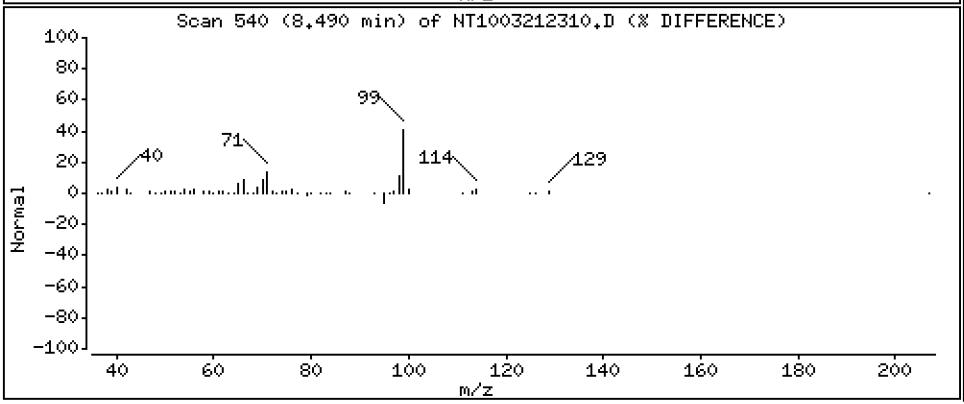
3 Phenol

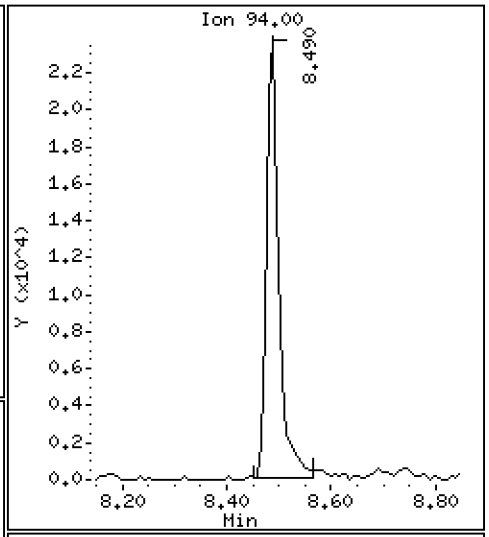
Concentration: 0.4563 ug/mL

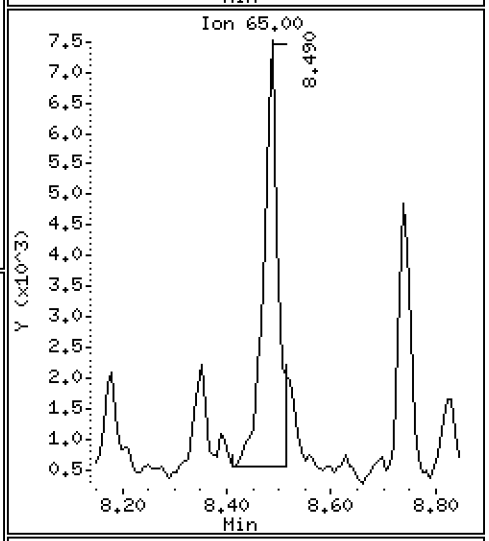


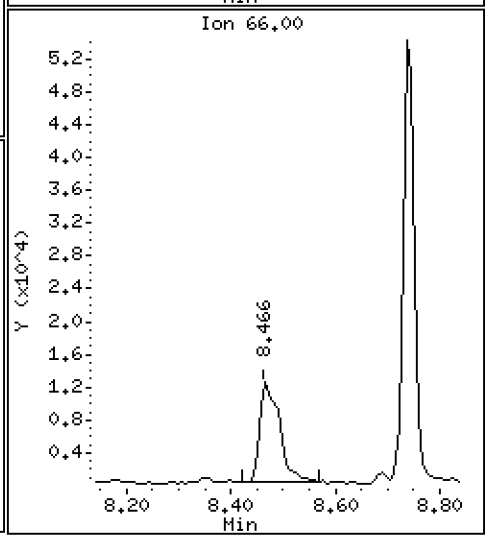












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212310.D

Date : 21-MAR-2023 22:56

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-01

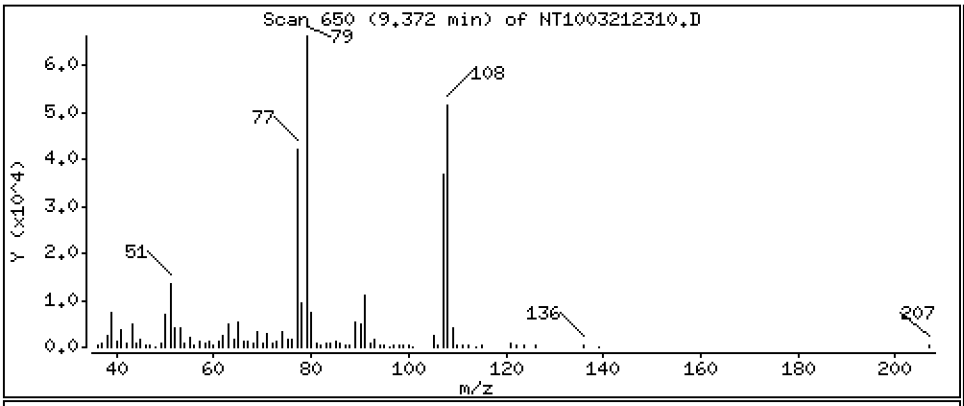
Operator: VTS

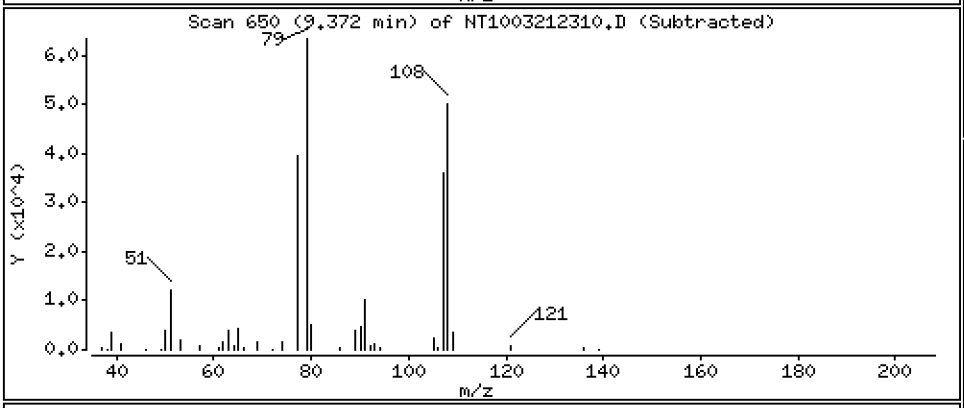
Column phase: ZB-5msi

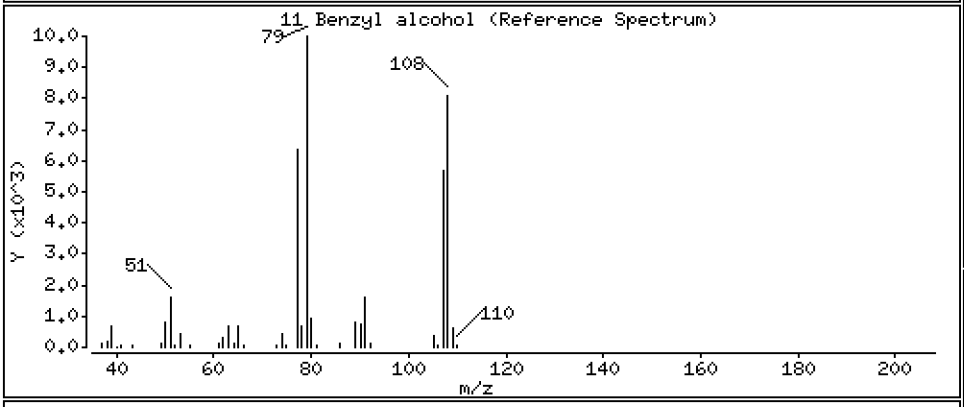
Column diameter: 0.25

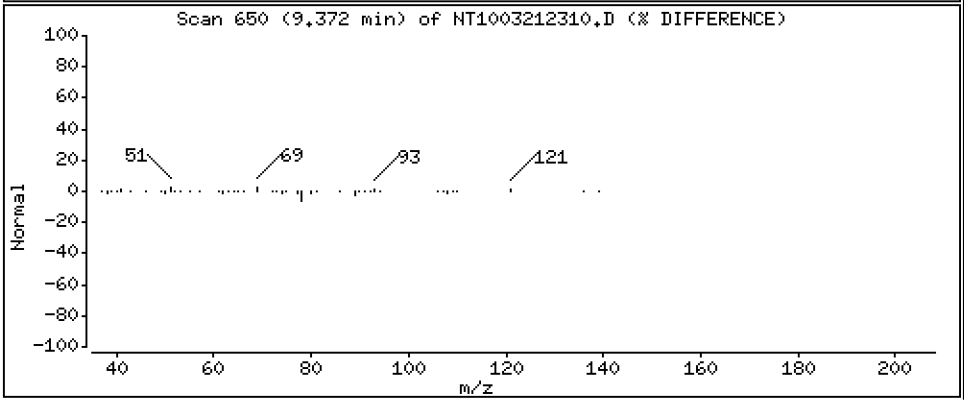
11 Benzyl alcohol

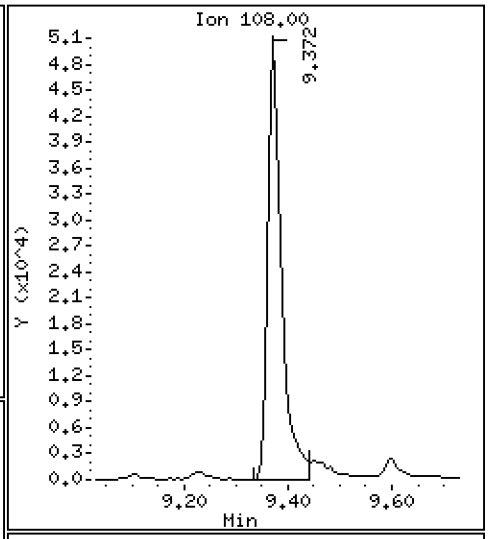
Concentration: 2.319 ug/mL

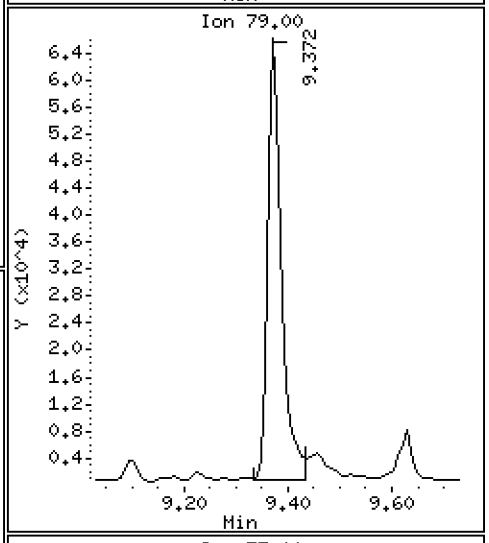


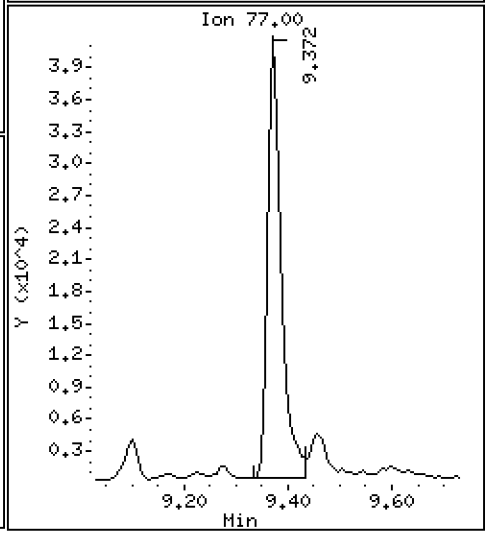












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Date : 21-MAR-2023 22:56

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-01

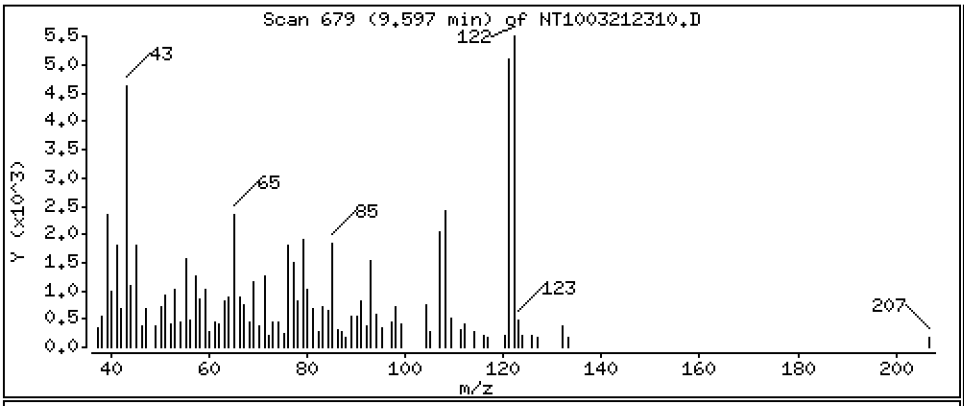
Operator: VTS

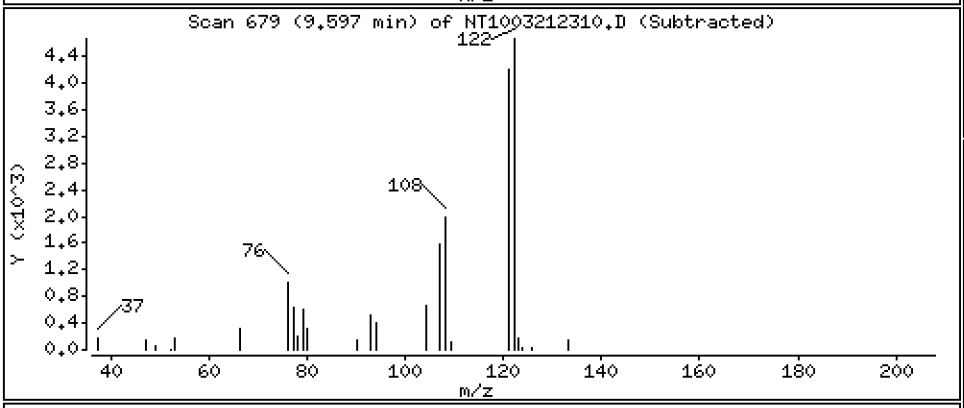
Column phase: ZB-5msi

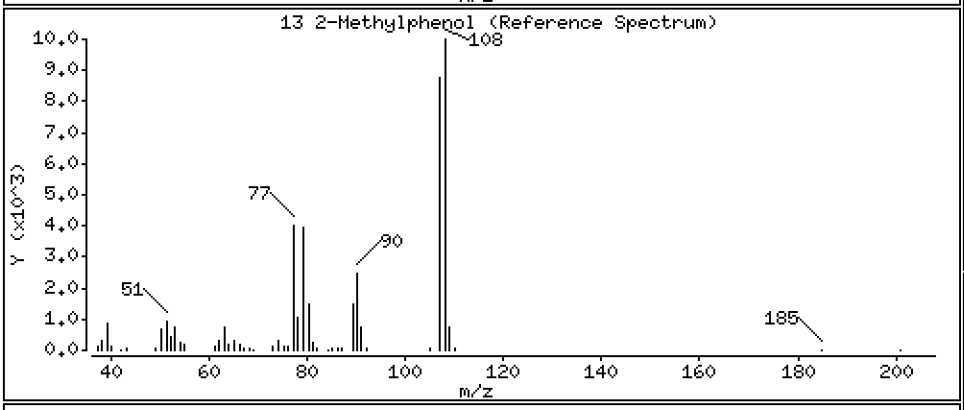
Column diameter: 0.25

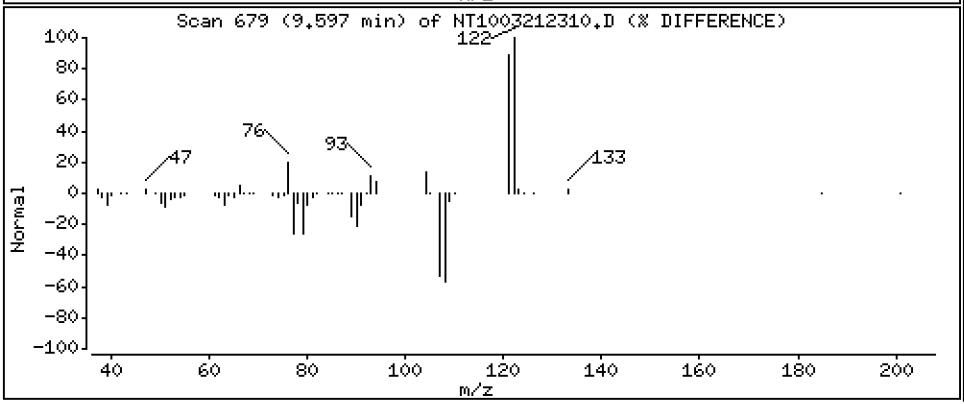
13 2-Methylphenol

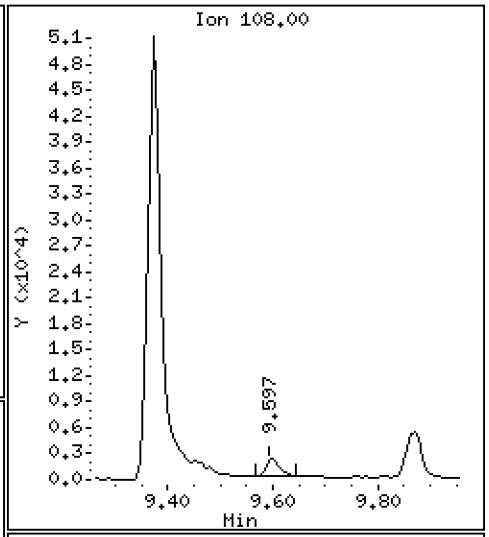
Concentration: 0.05744 ug/mL

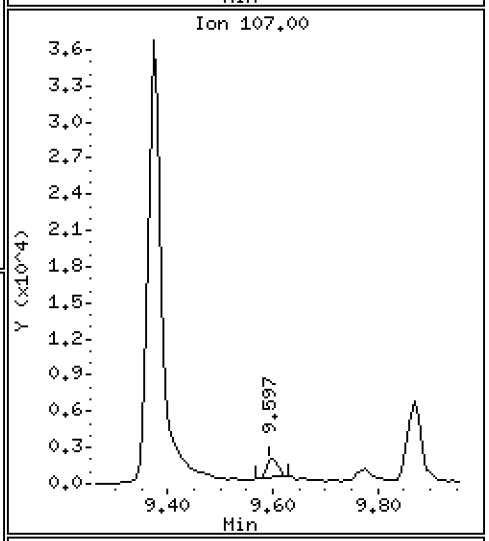


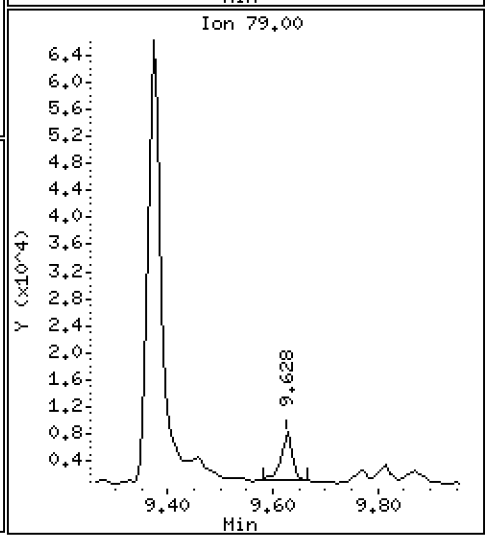












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Date : 21-MAR-2023 22:56

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-01

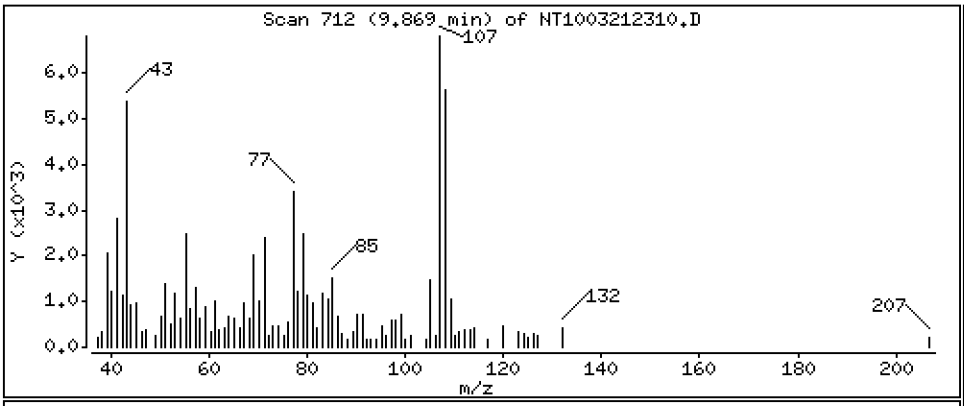
Operator: VTS

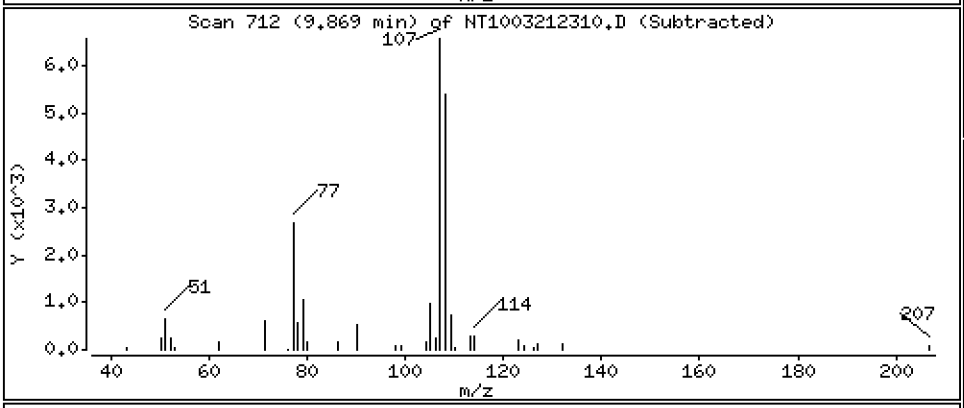
Column phase: ZB-5msi

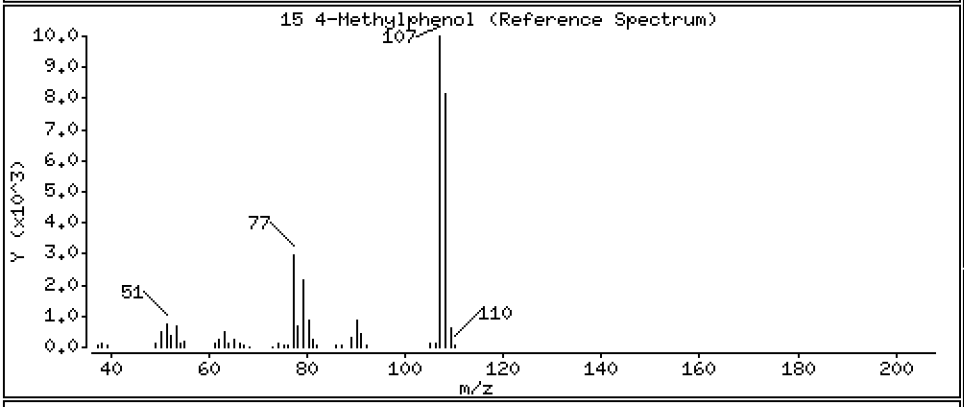
Column diameter: 0.25

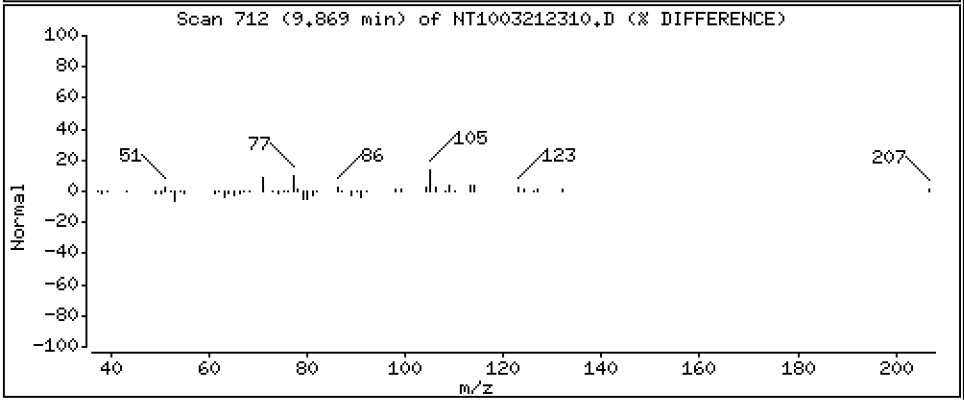
15 4-Methylphenol

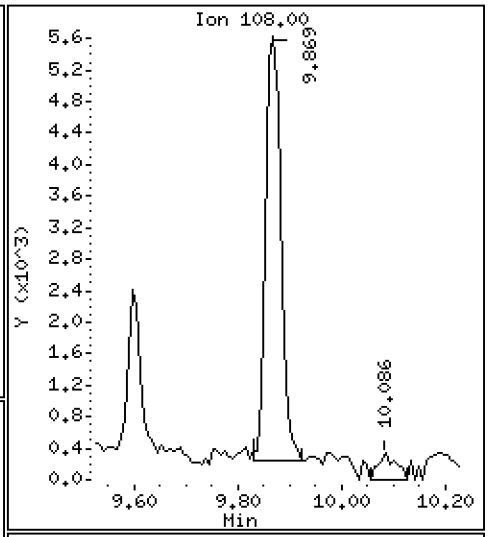
Concentration: 0.1646 ug/mL

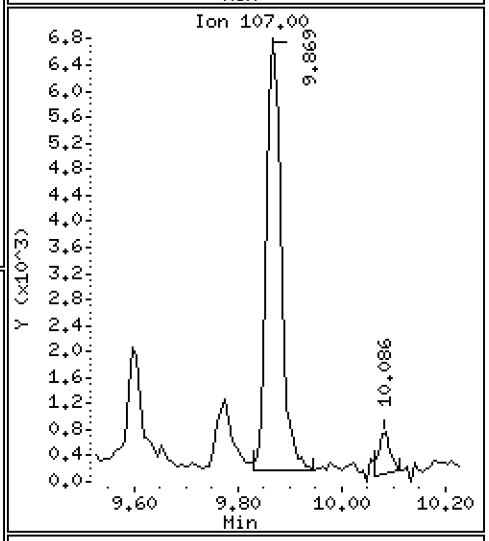


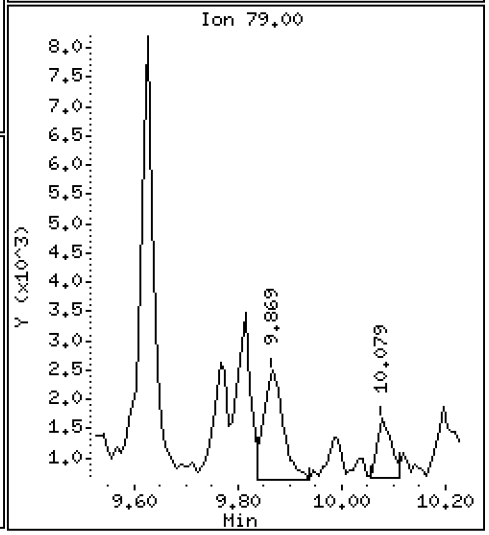












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Date : 21-MAR-2023 22:56

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-01

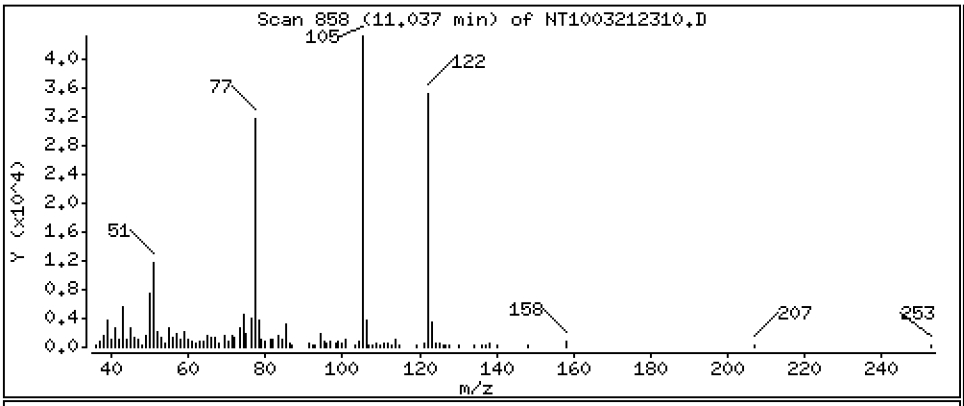
Operator: VTS

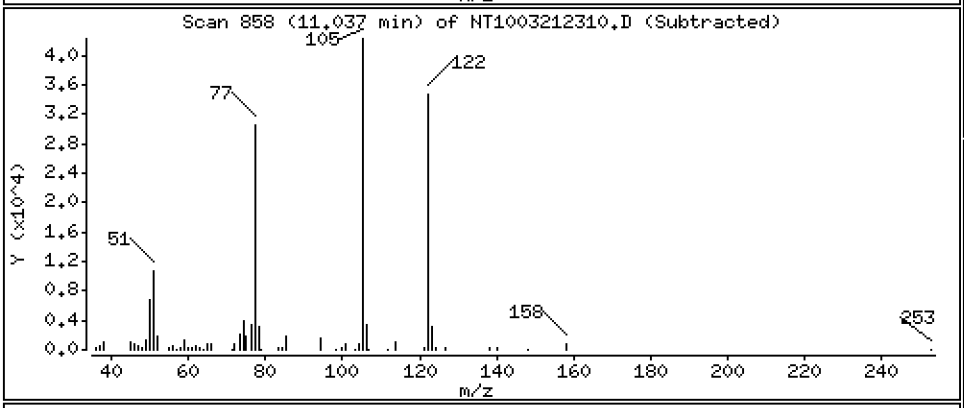
Column phase: ZB-5msi

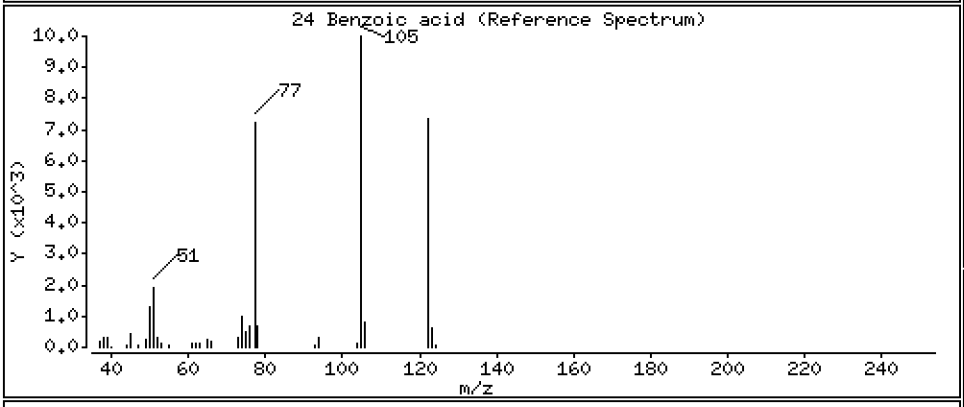
Column diameter: 0.25

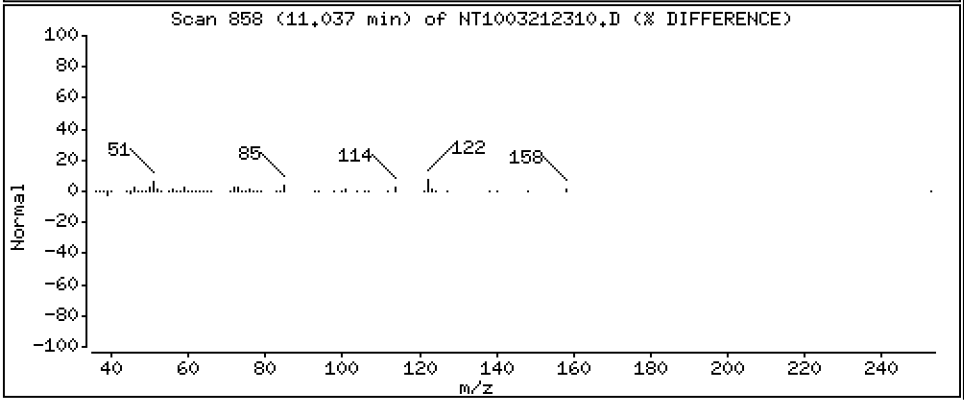
24 Benzoic acid

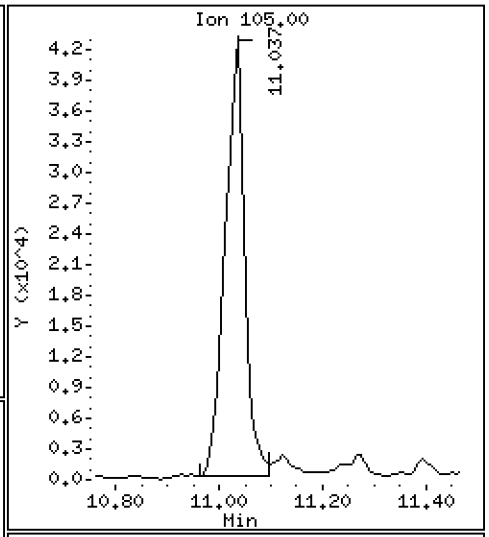
Concentration: 3.042 ug/mL

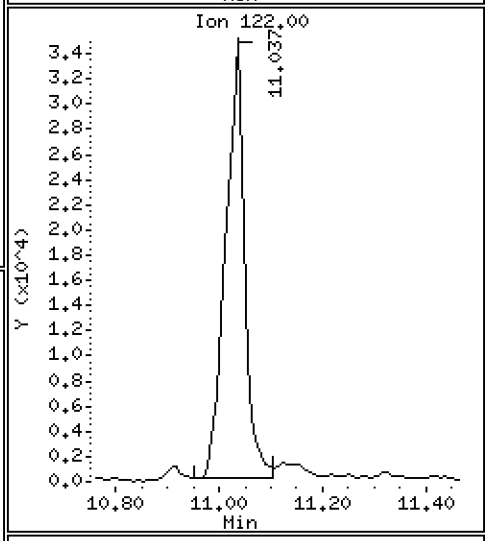


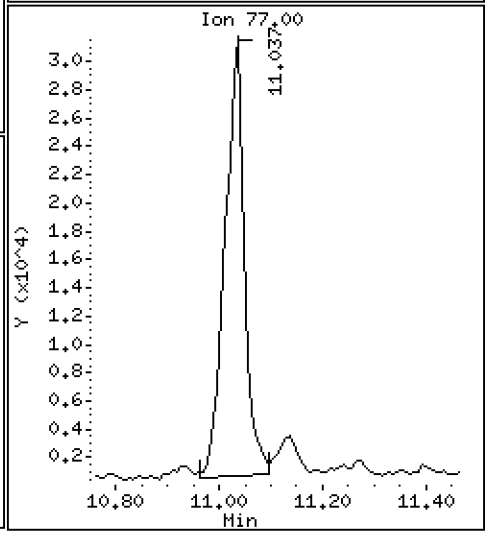












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Date : 21-MAR-2023 22:56

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-01

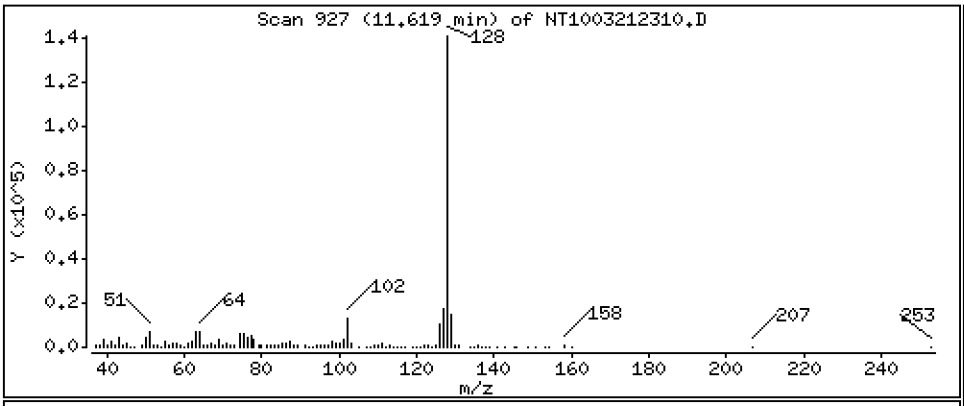
Operator: VTS

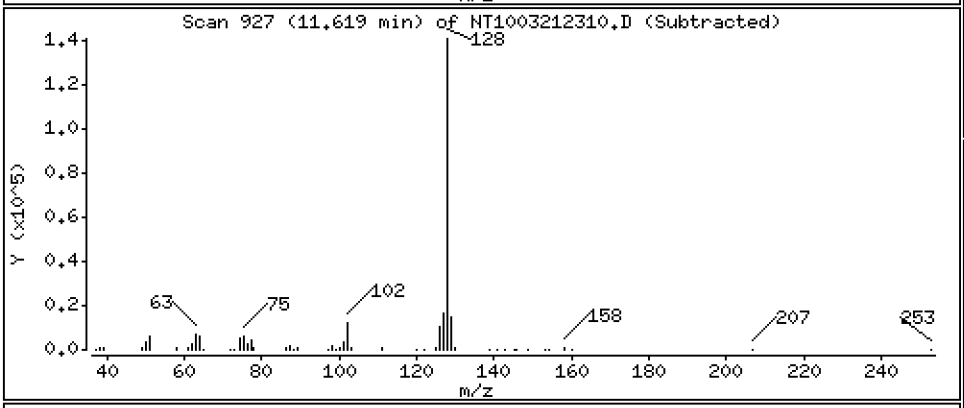
Column phase: ZB-5msi

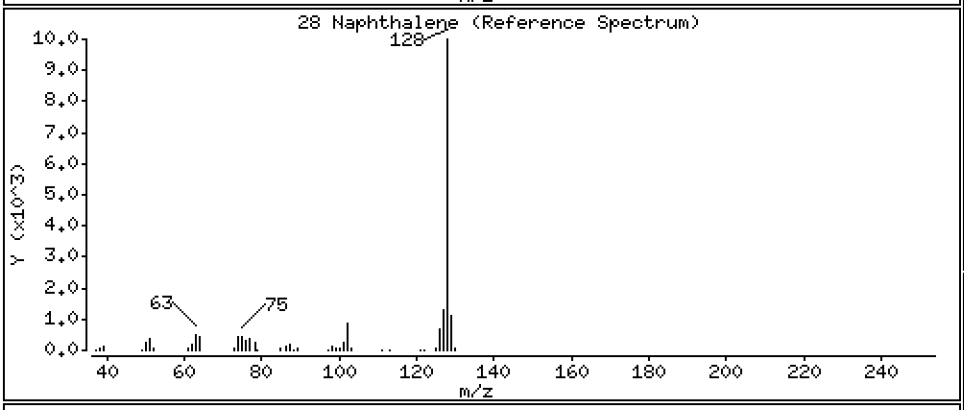
Column diameter: 0.25

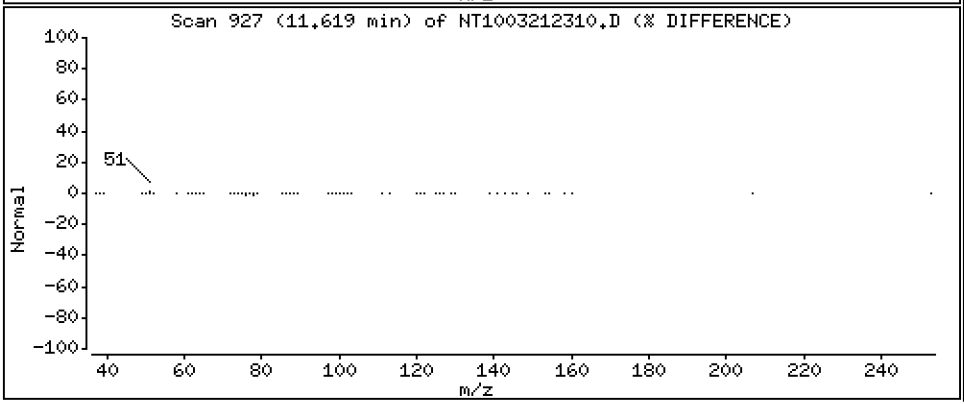
28 Naphthalene

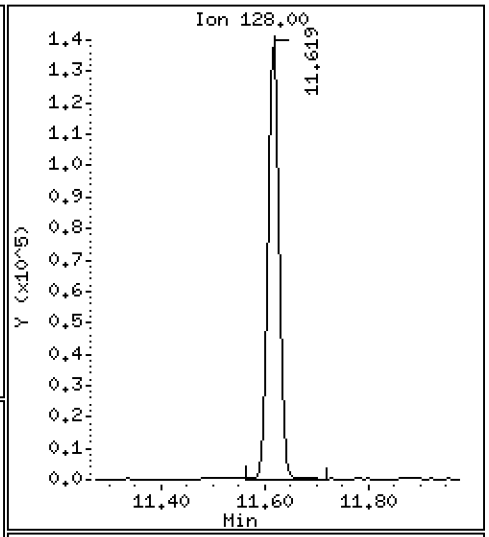
Concentration: 1.133 ug/mL

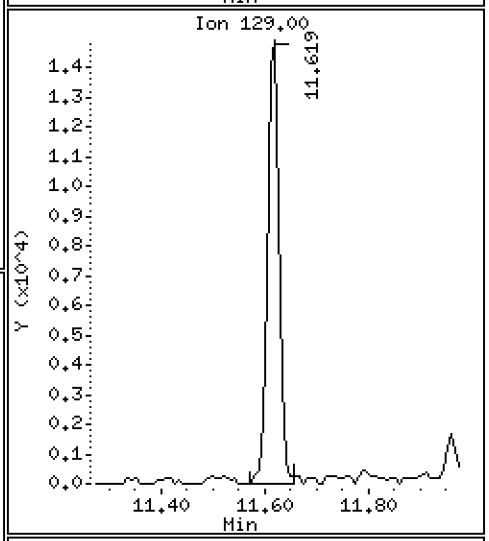


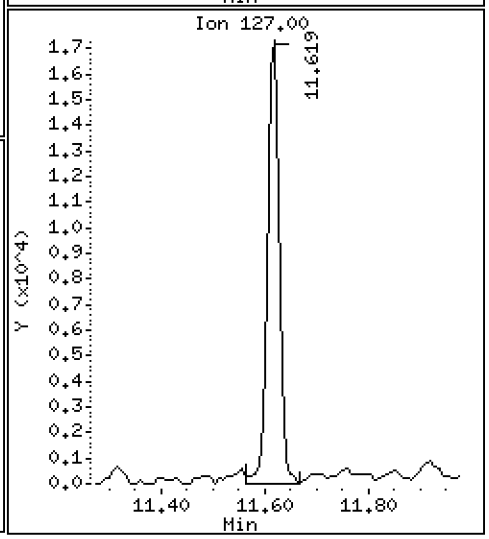












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Date : 21-MAR-2023 22:56

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-01

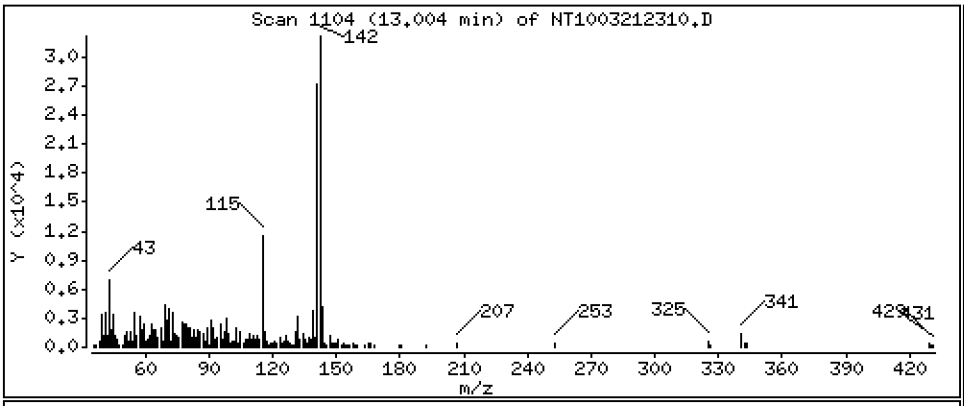
Operator: VTS

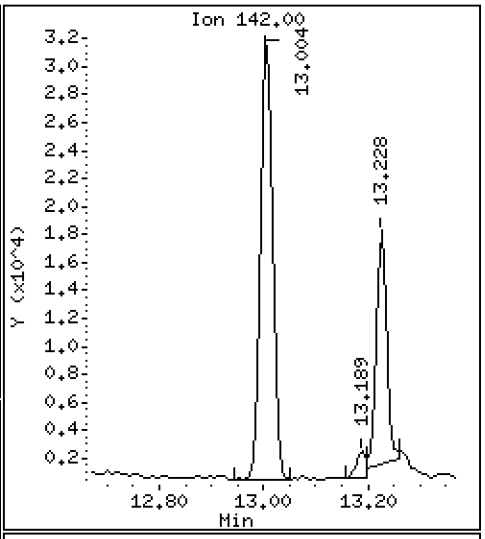
Column phase: ZB-5msi

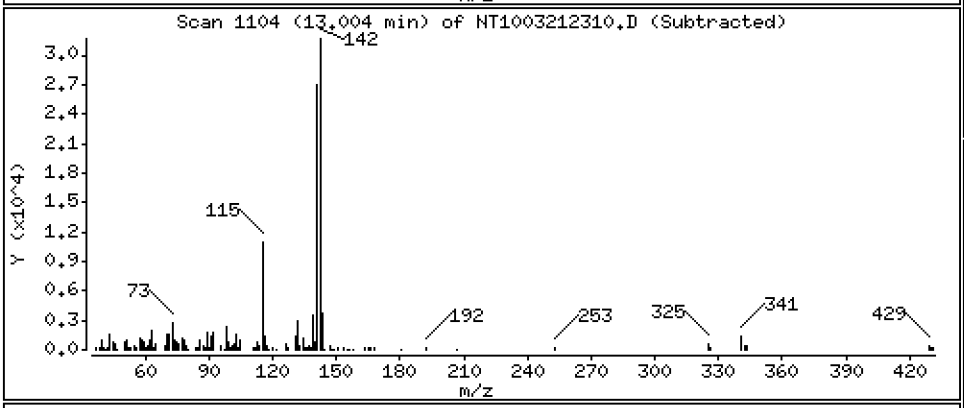
Column diameter: 0.25

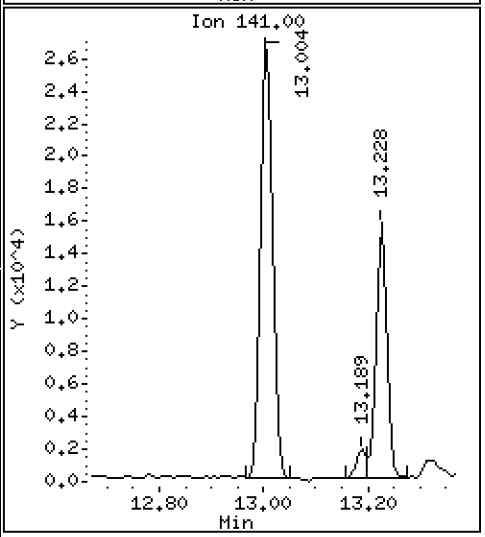
32 2-Methylnaphthalene

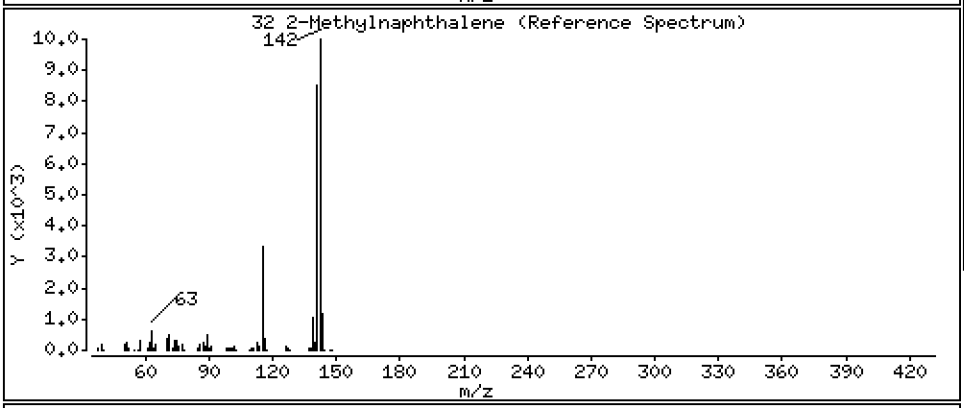
Concentration: 0.3540 ug/mL

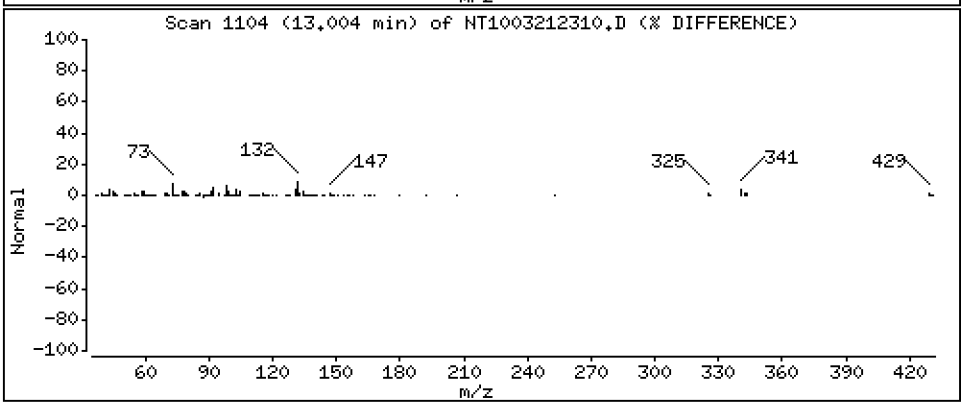












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Date : 21-MAR-2023 22:56

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-01

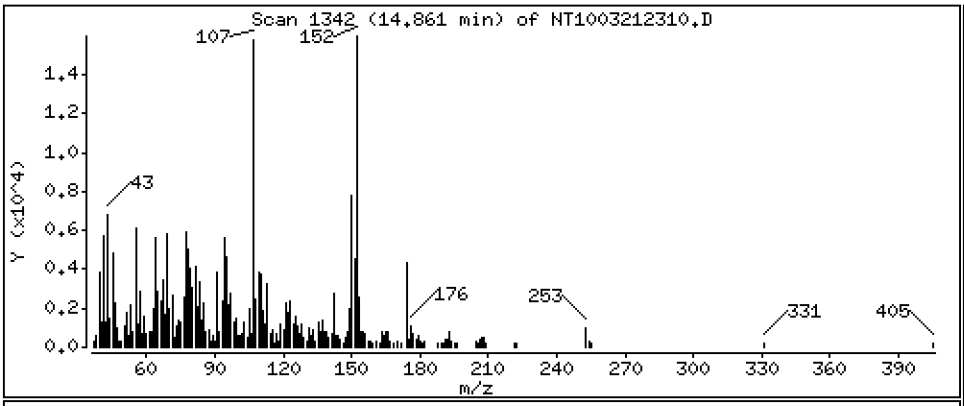
Operator: VTS

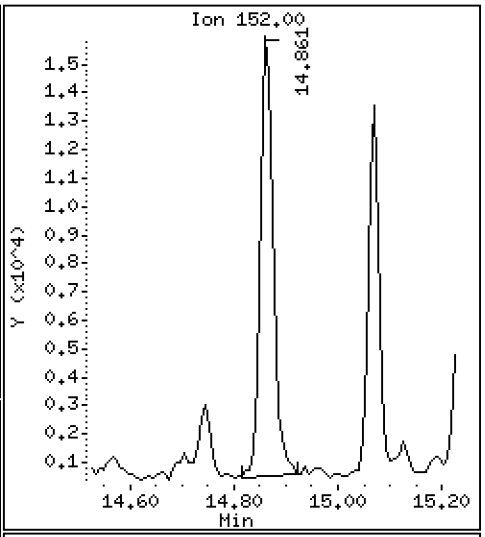
Column phase: ZB-5msi

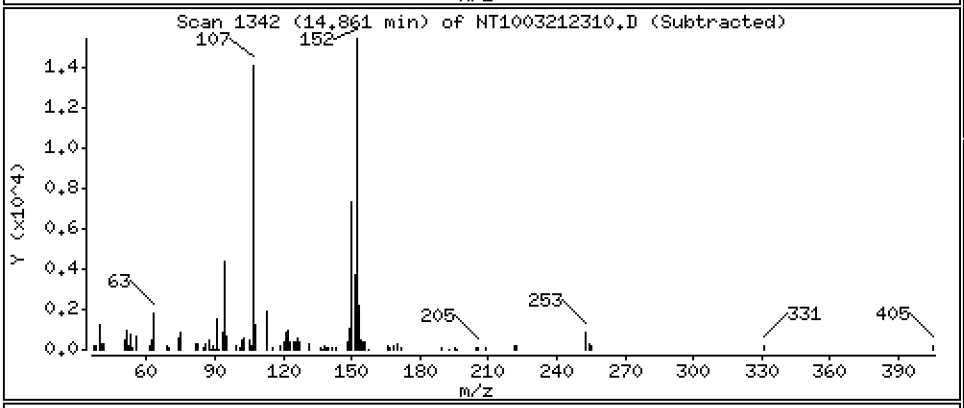
Column diameter: 0.25

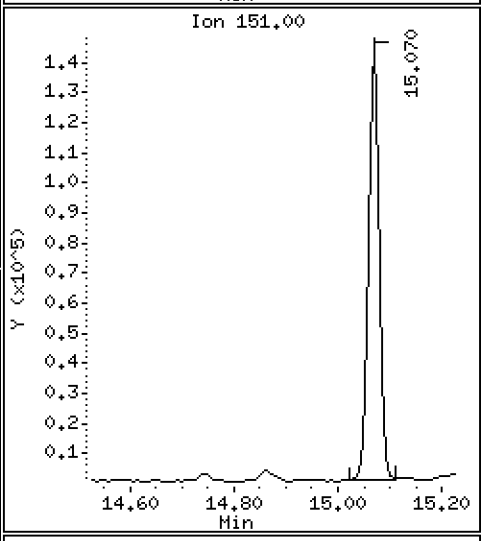
40 Acenaphthylene

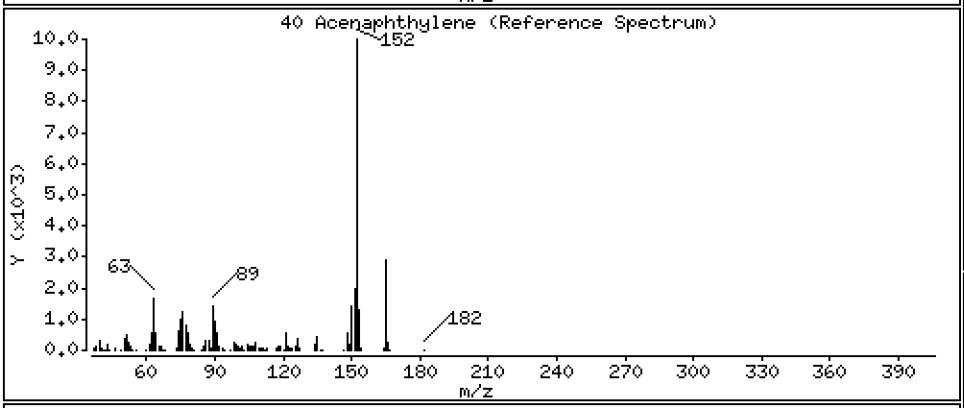
Concentration: 0.1265 ug/mL

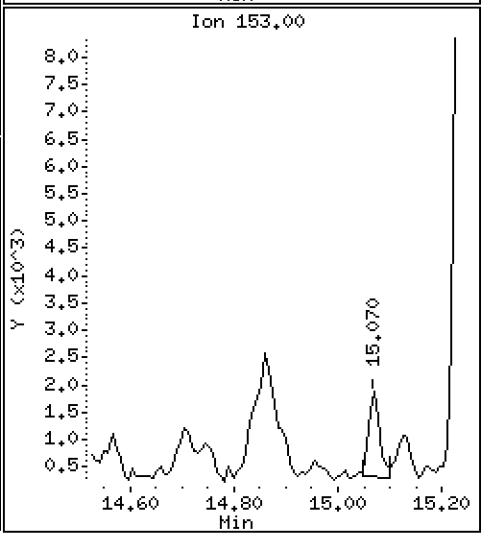


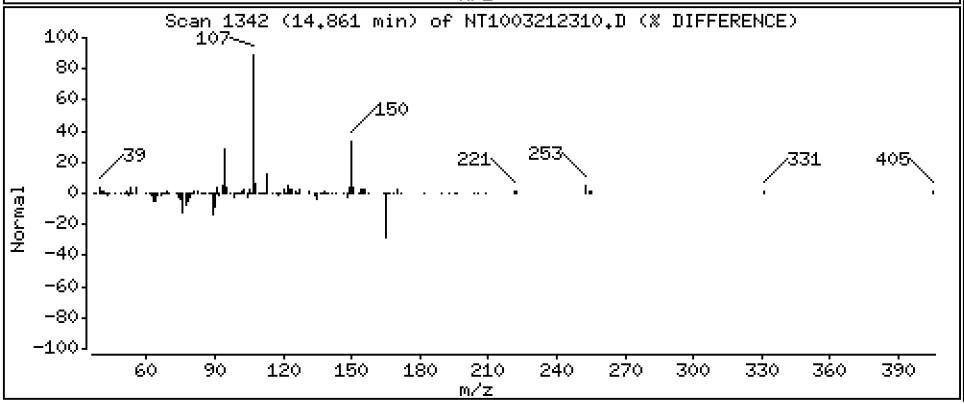












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212310.D

Date : 21-MAR-2023 22:56

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-01

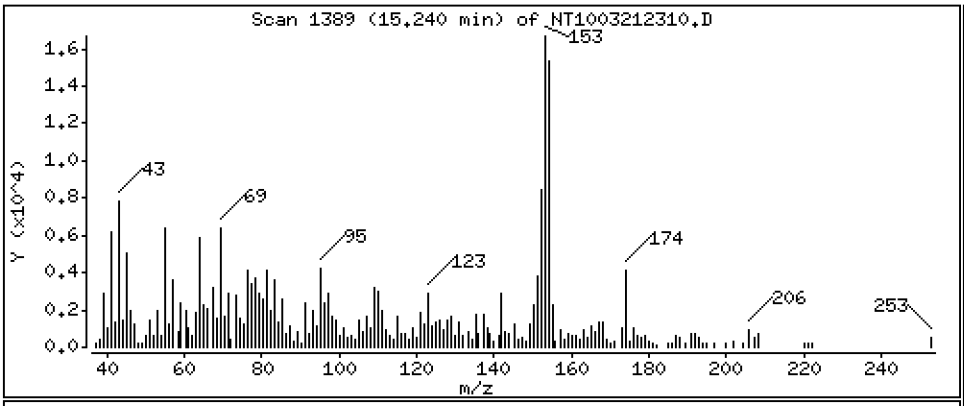
Operator: VTS

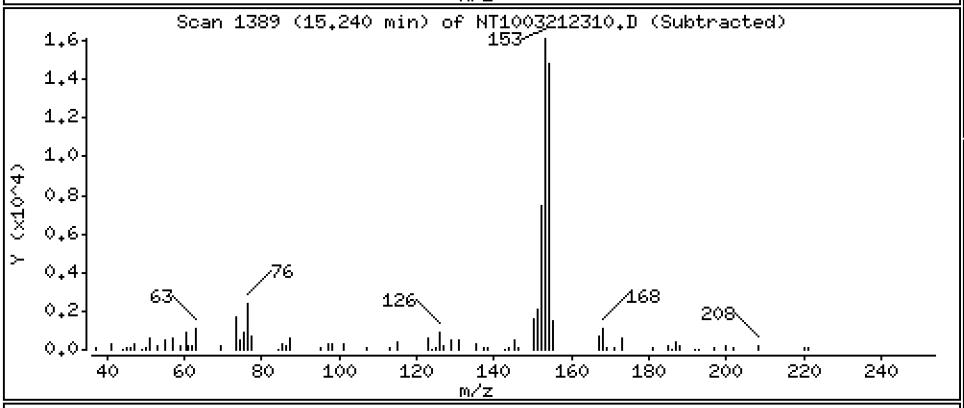
Column phase: ZB-5msi

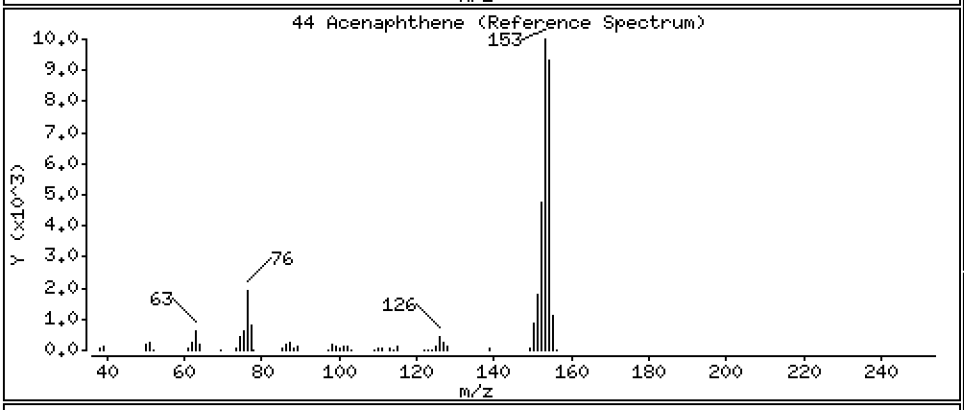
Column diameter: 0.25

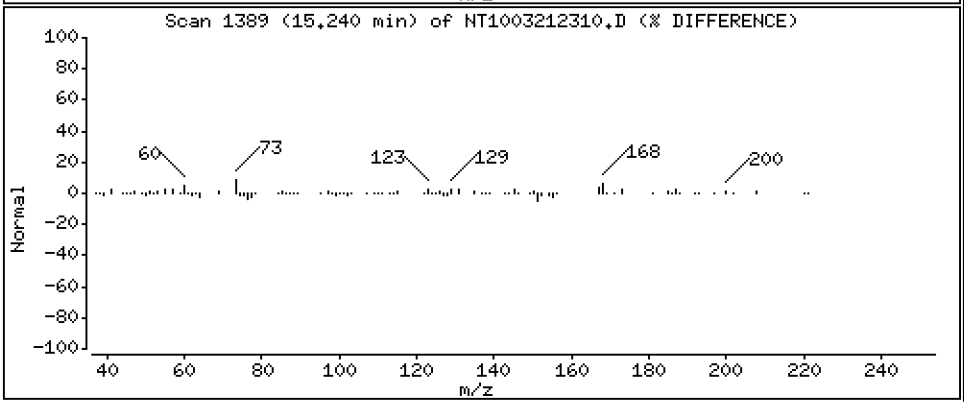
44 Acenaphthene

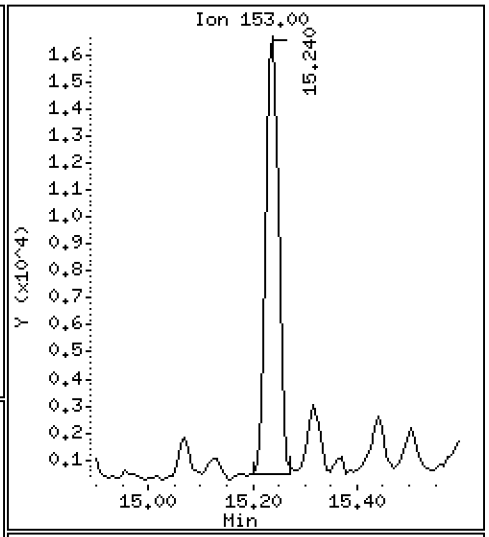
Concentration: 0.2082 ug/mL

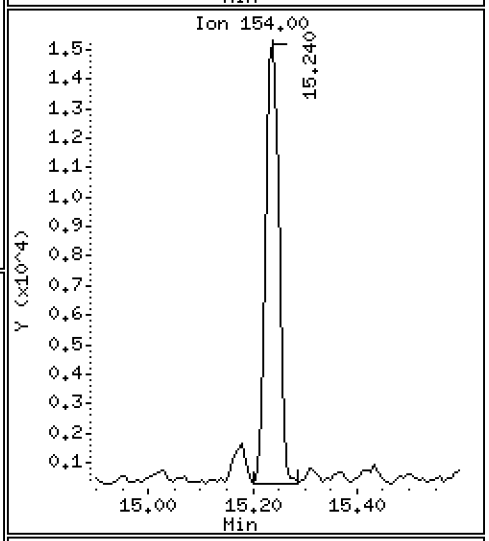


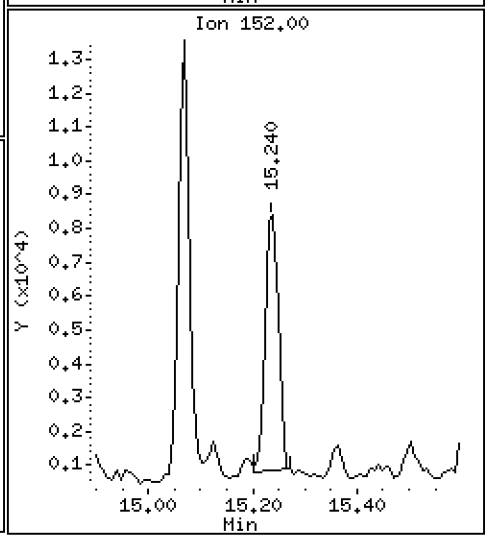












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Date : 21-MAR-2023 22:56

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-01

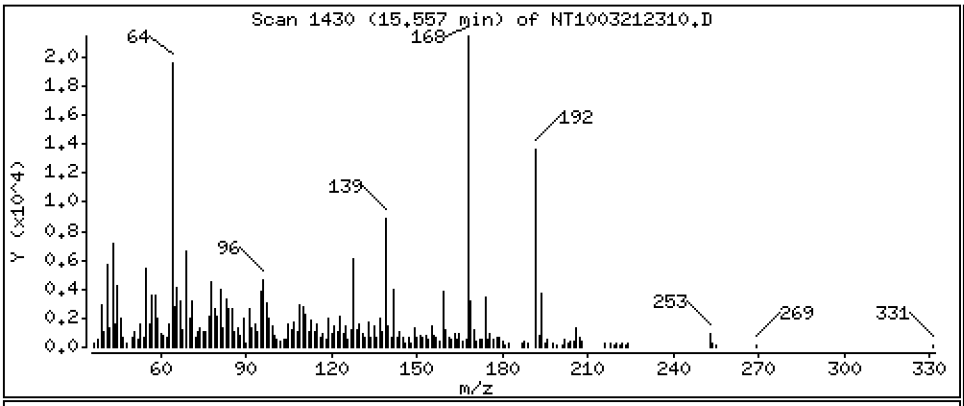
Operator: VTS

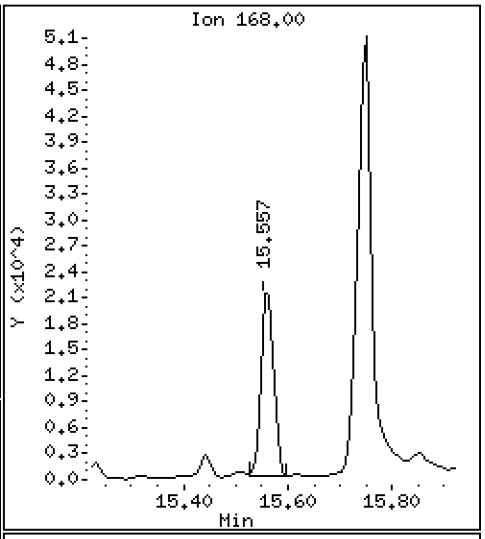
Column phase: ZB-5msi

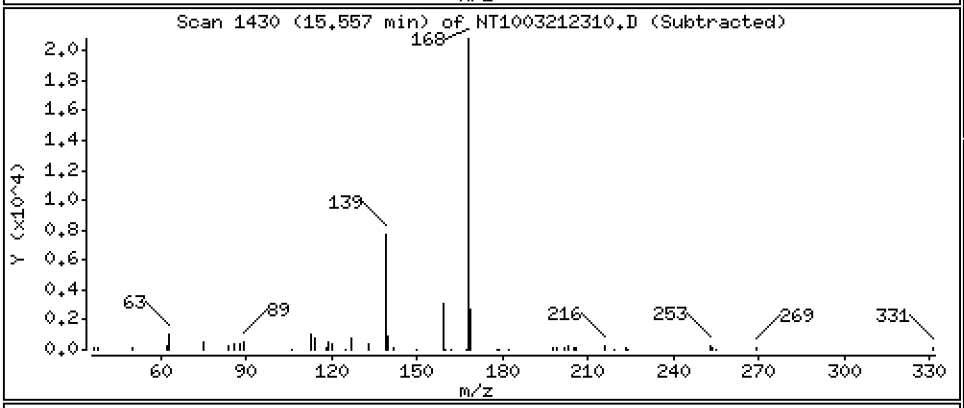
Column diameter: 0.25

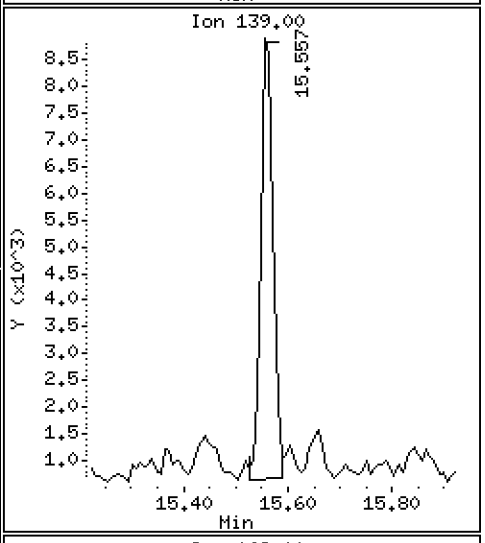
46 Dibenzofuran

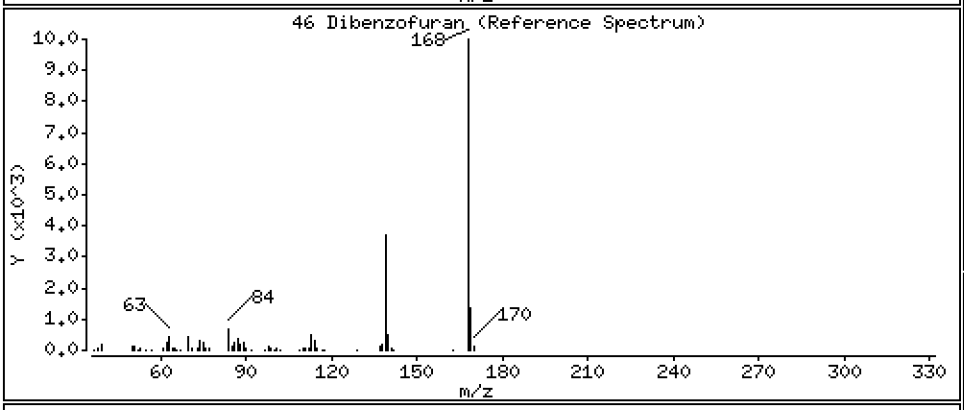
Concentration: 0.1881 ug/mL

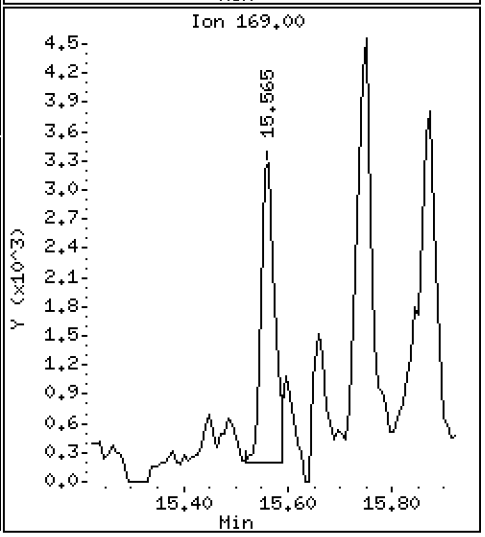


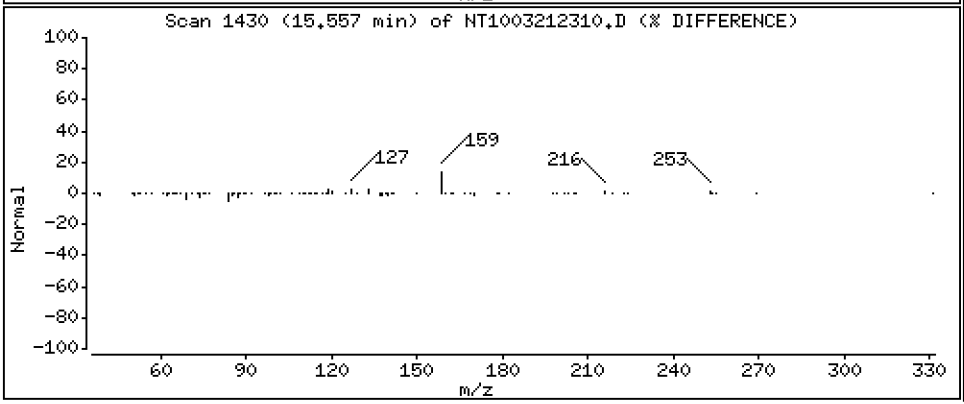












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Date : 21-MAR-2023 22:56

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-01

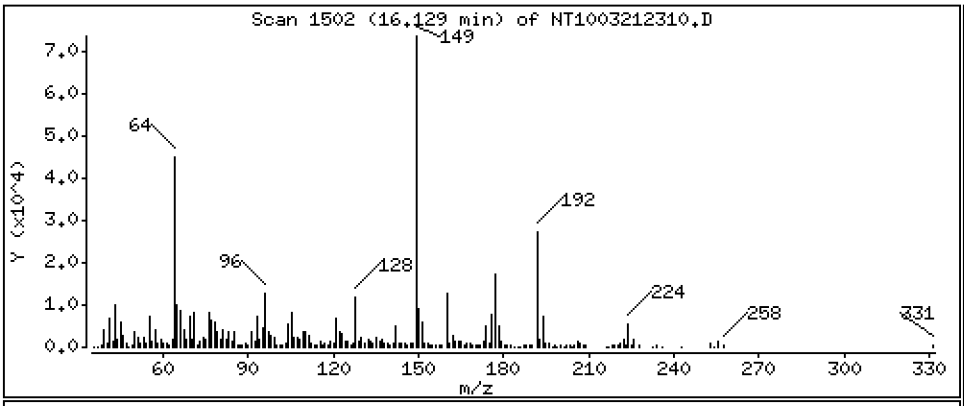
Operator: VTS

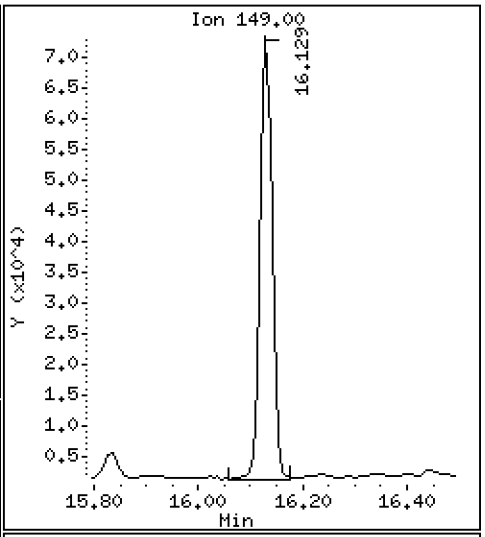
Column phase: ZB-5msi

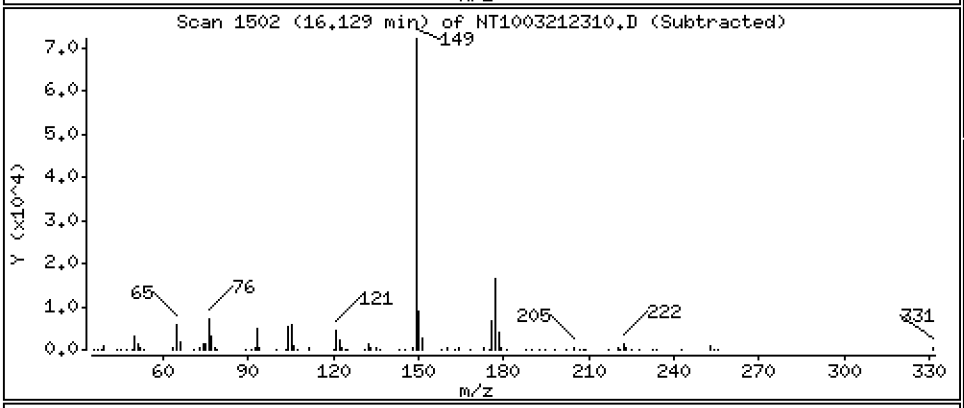
Column diameter: 0.25

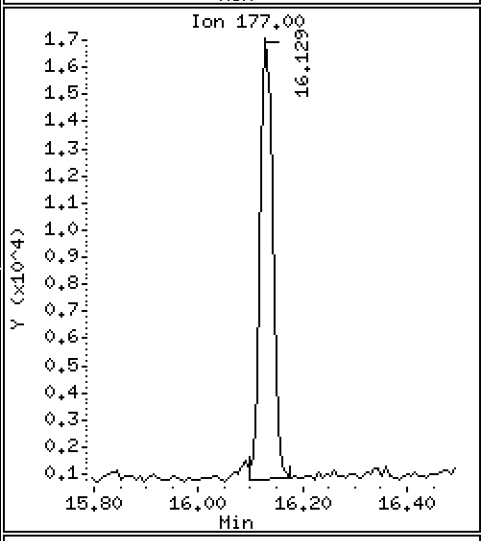
50 Diethylphthalate

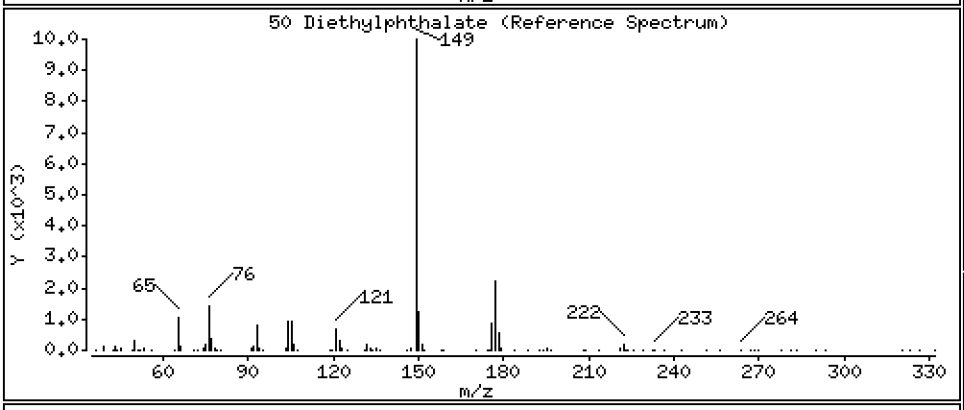
Concentration: 0.8403 ug/mL

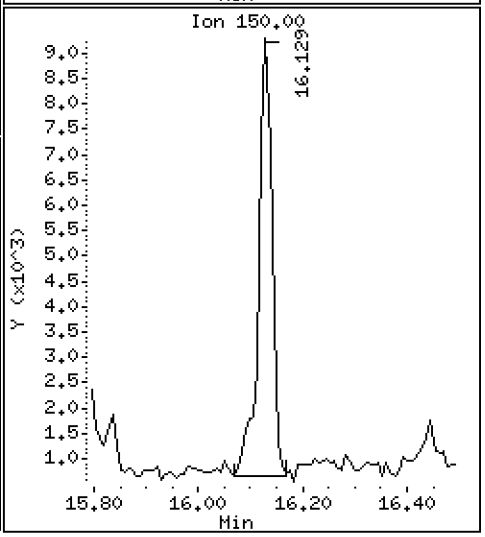


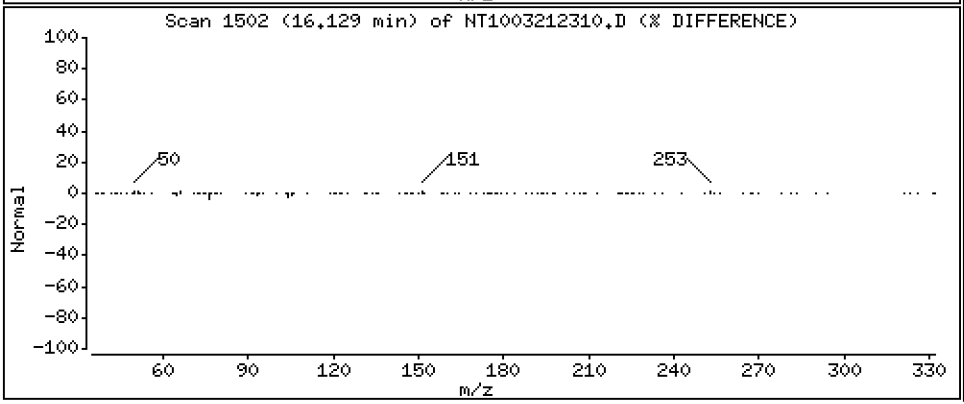












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Date : 21-MAR-2023 22:56

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-01

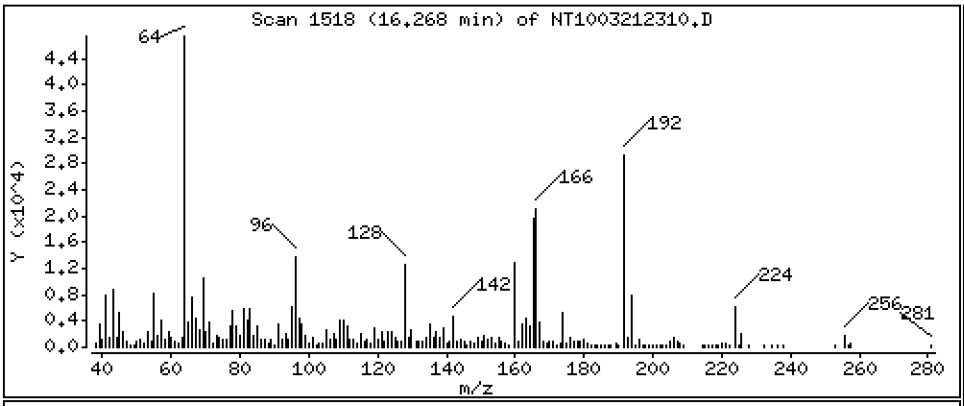
Operator: VTS

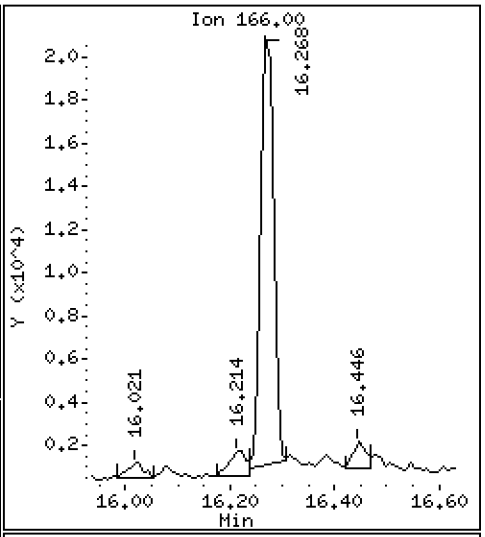
Column phase: ZB-5msi

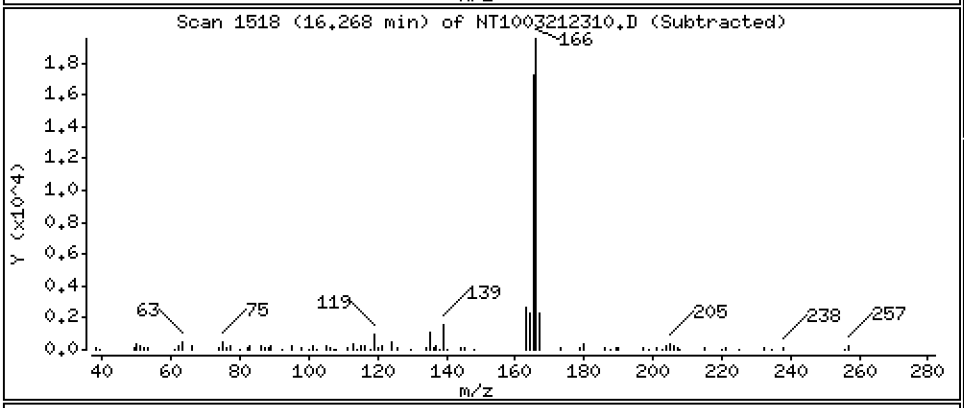
Column diameter: 0.25

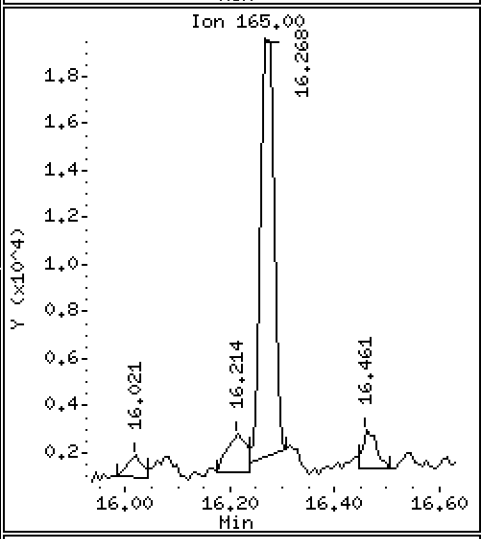
49 Fluorene

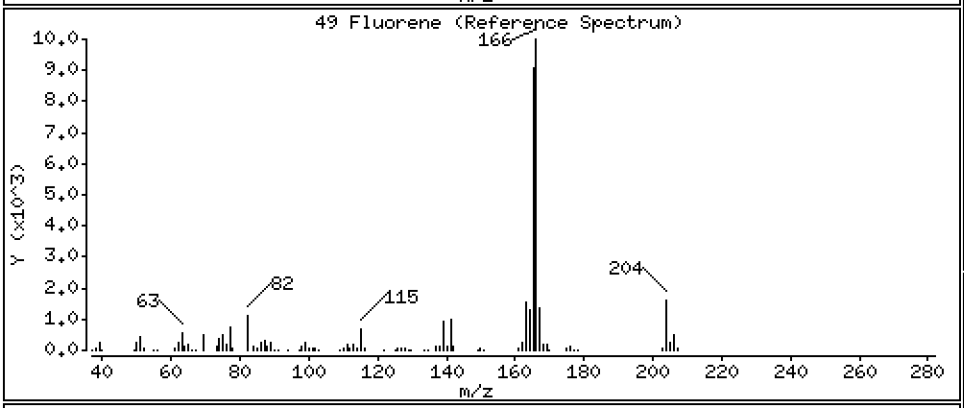
Concentration: 0.2213 ug/mL

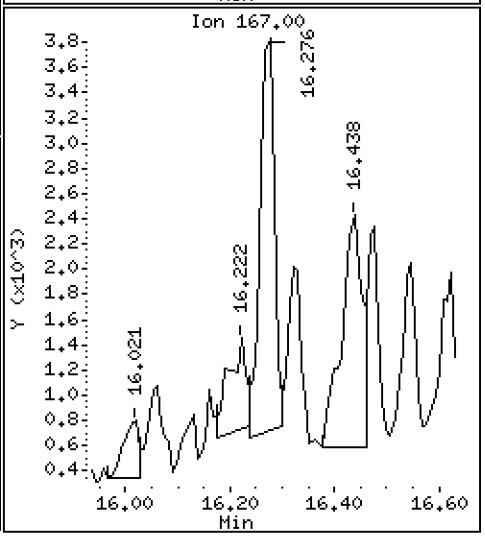


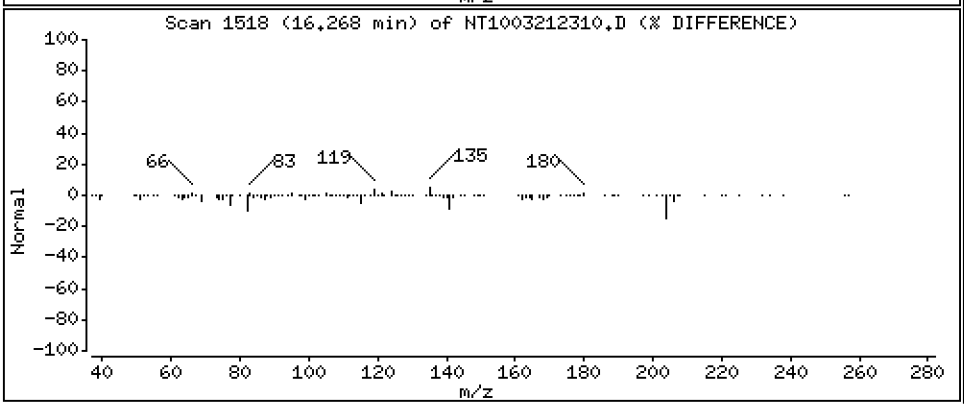












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Date : 21-MAR-2023 22:56

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-01

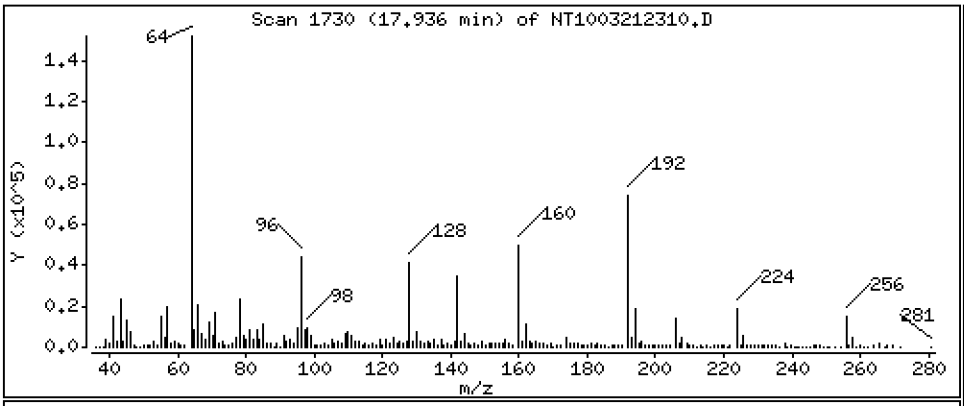
Operator: VTS

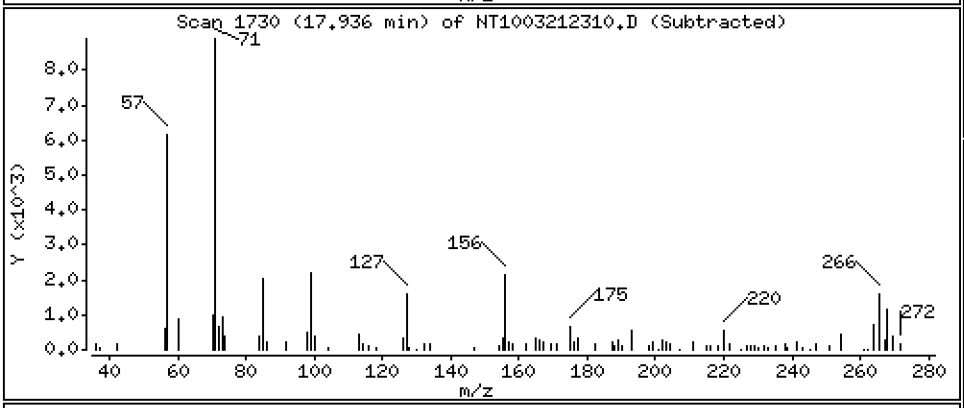
Column phase: ZB-5msi

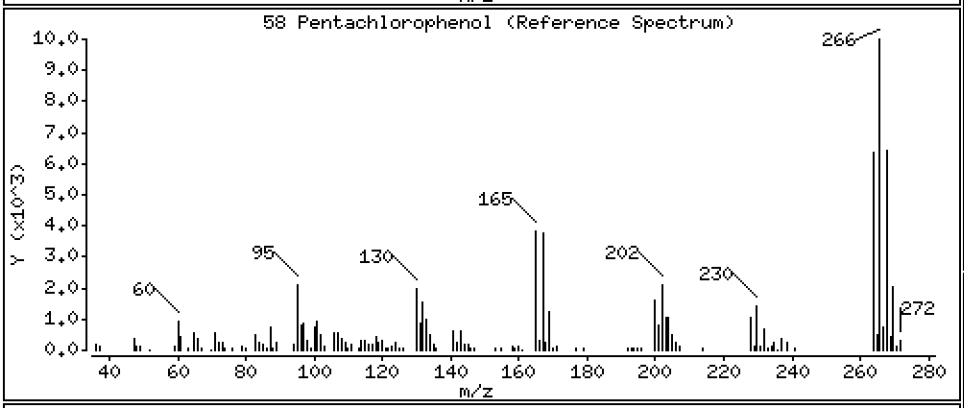
Column diameter: 0.25

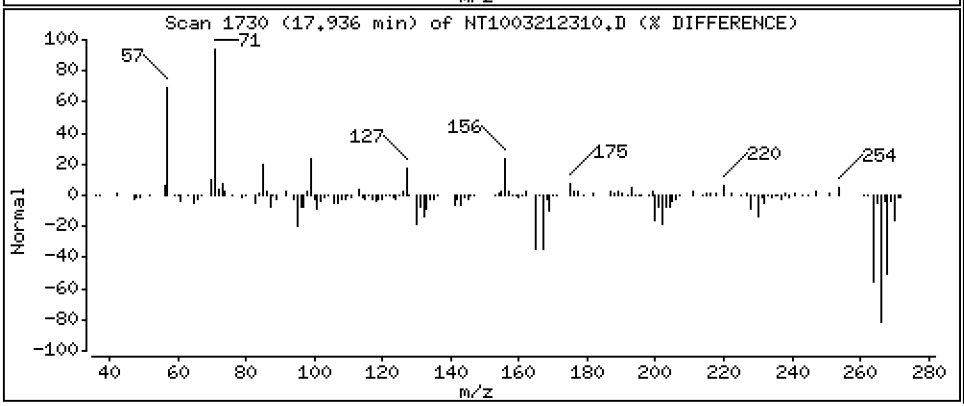
58 Pentachlorophenol

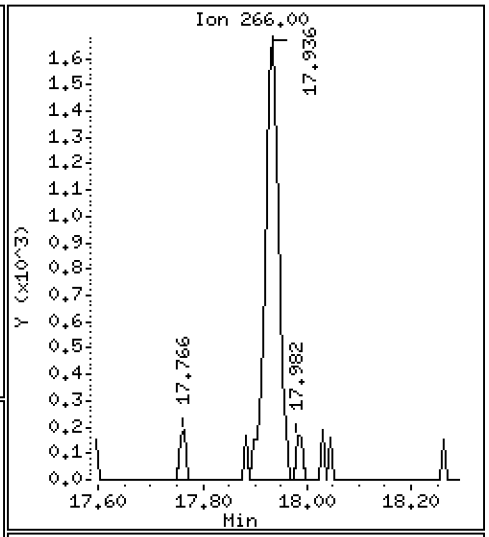
Concentration: 0.1075 ug/mL

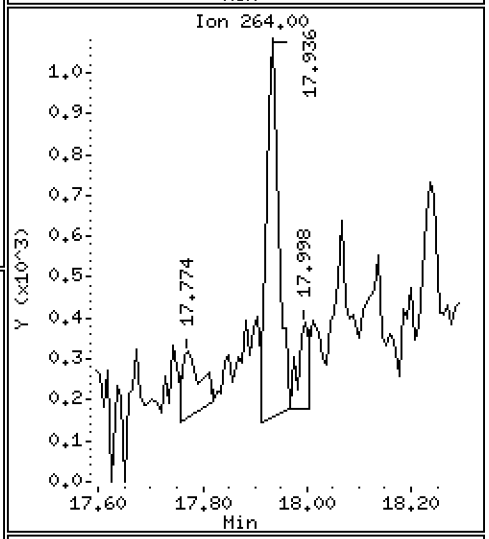


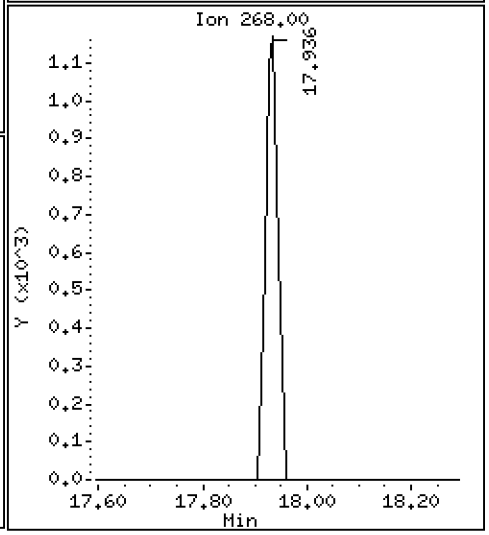












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Date : 21-MAR-2023 22:56

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-01

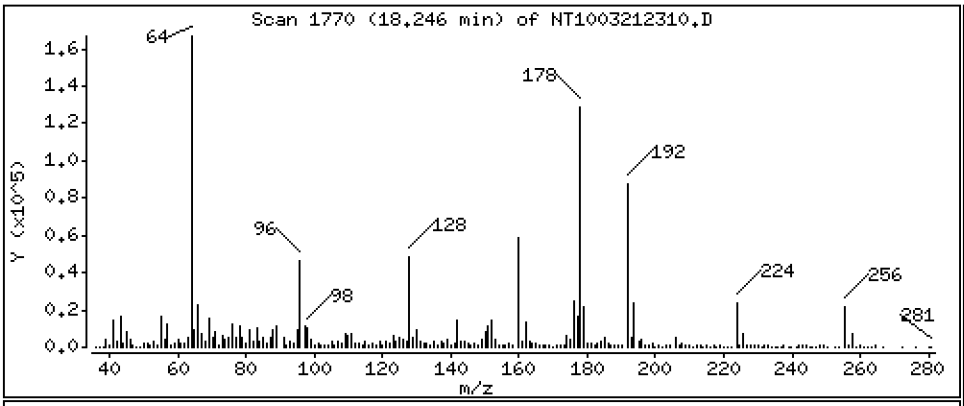
Operator: VTS

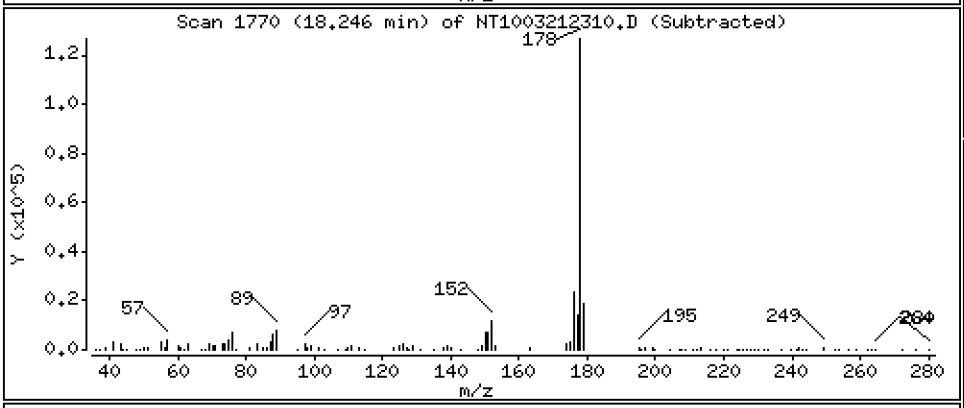
Column phase: ZB-5msi

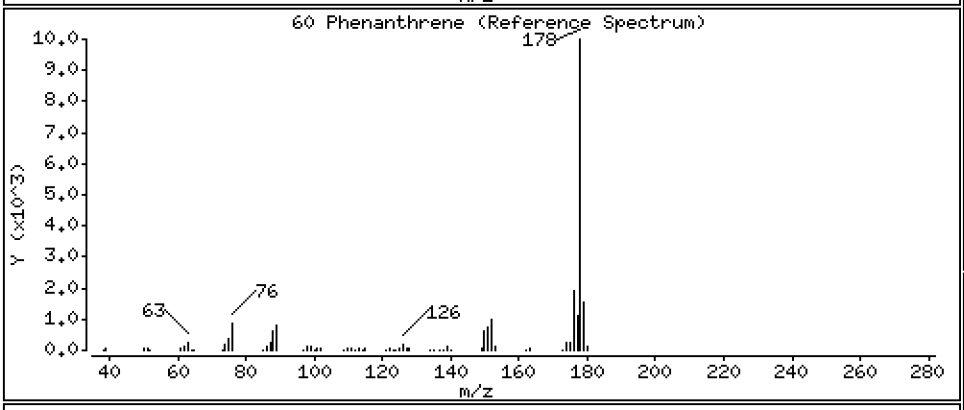
Column diameter: 0.25

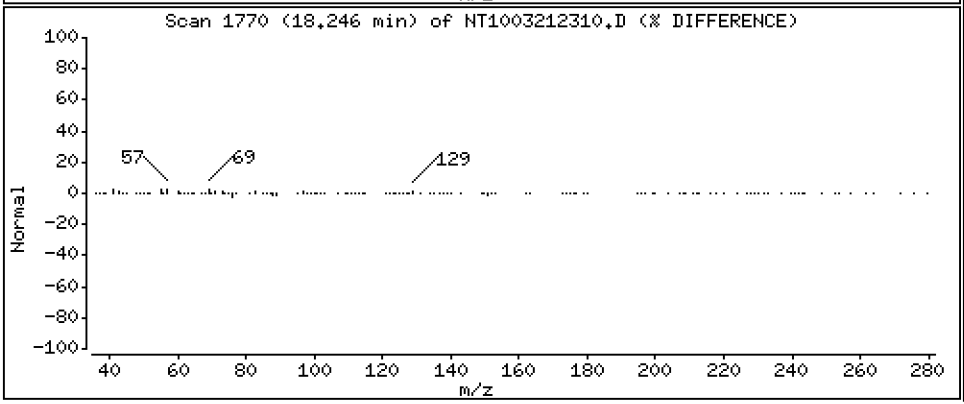
60 Phenanthrene

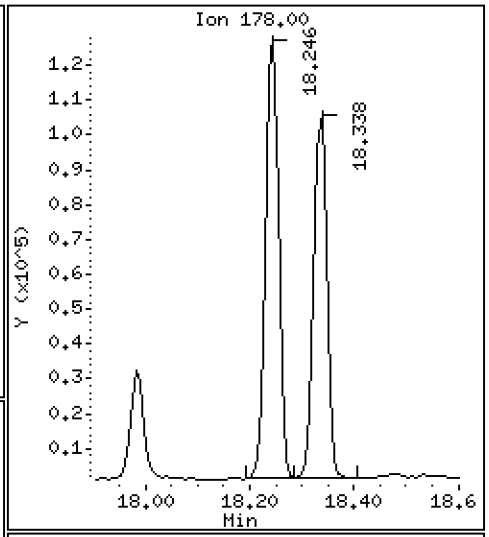
Concentration: 0.9910 ug/mL

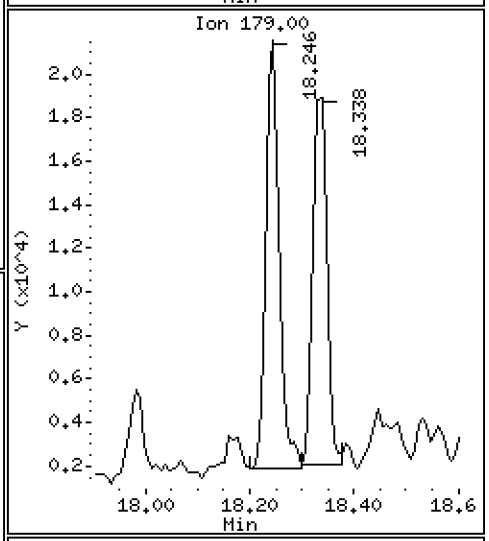


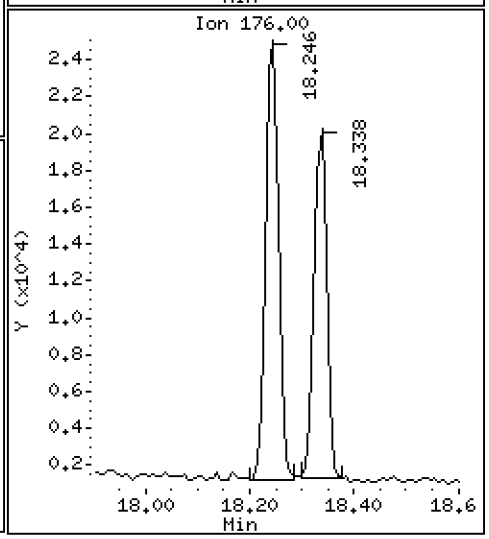












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Date : 21-MAR-2023 22:56

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-01

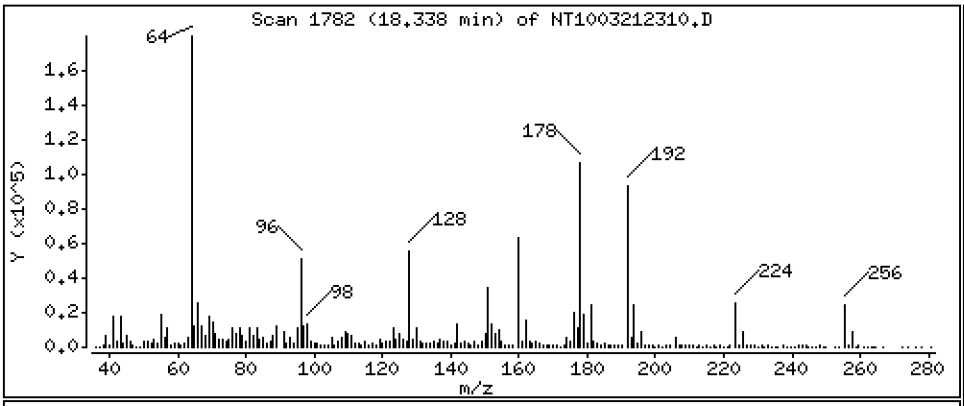
Operator: VTS

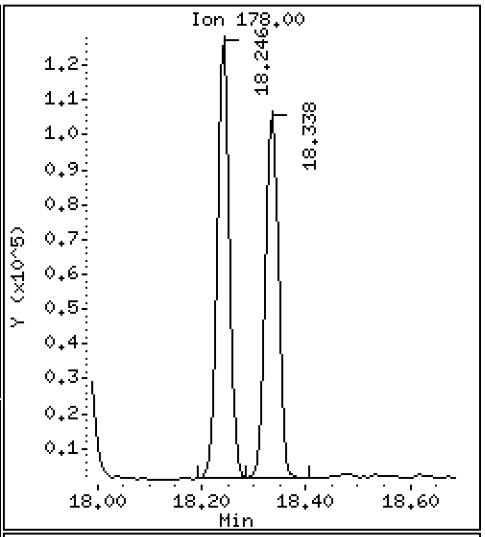
Column phase: ZB-5msi

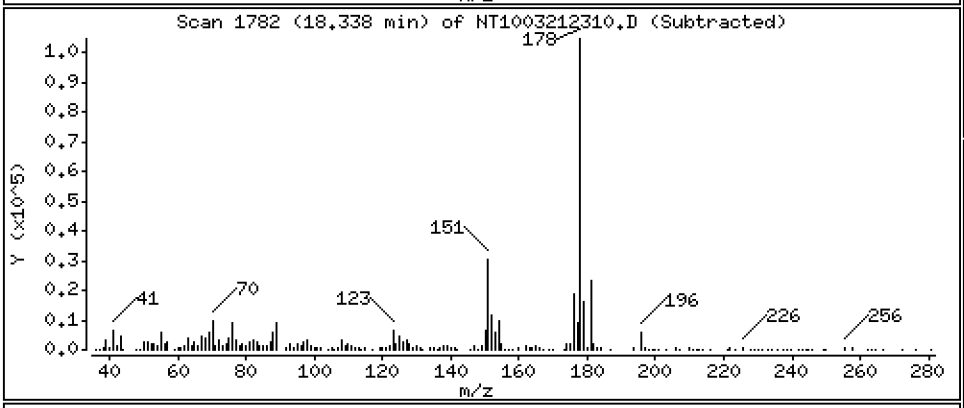
Column diameter: 0.25

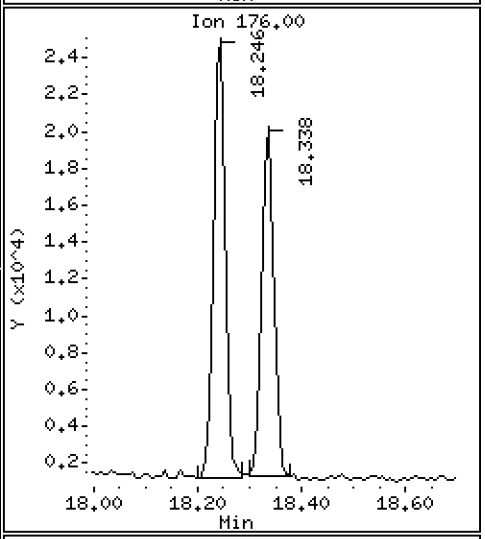
61 Anthracene

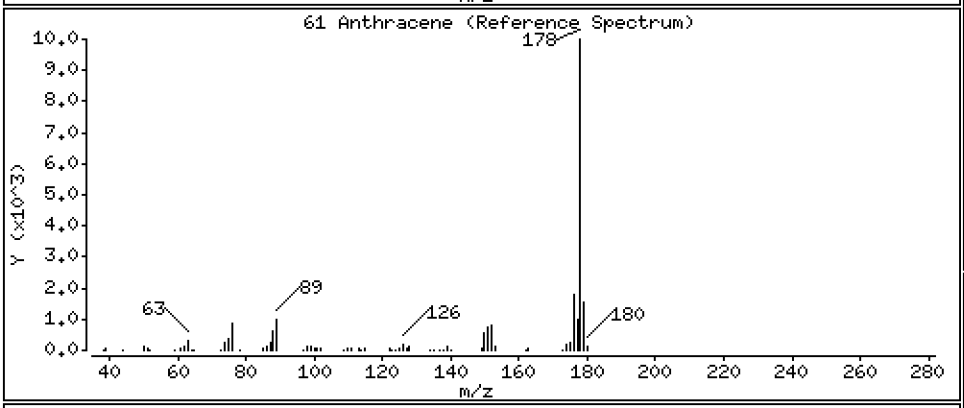
Concentration: 0.8677 ug/mL

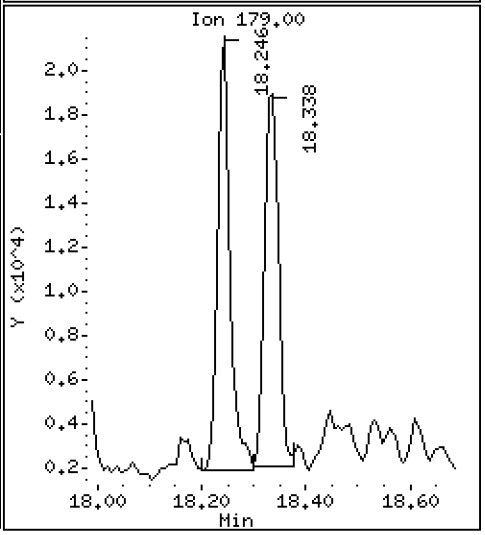


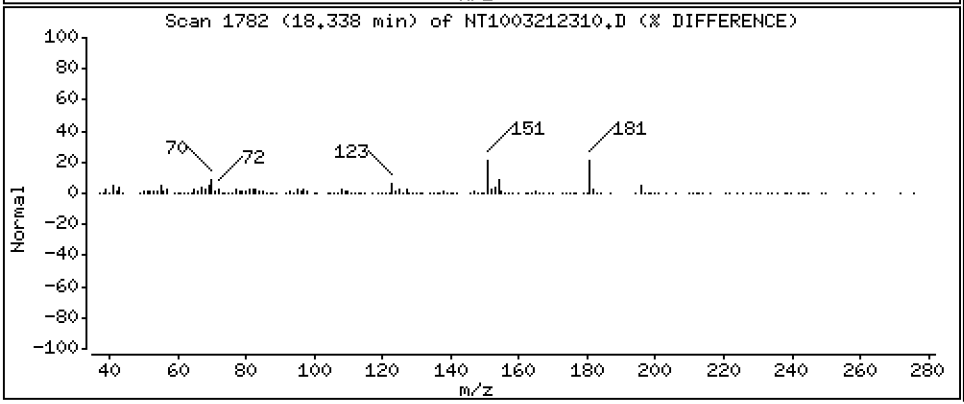












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212310.D

Date : 21-MAR-2023 22:56

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-01

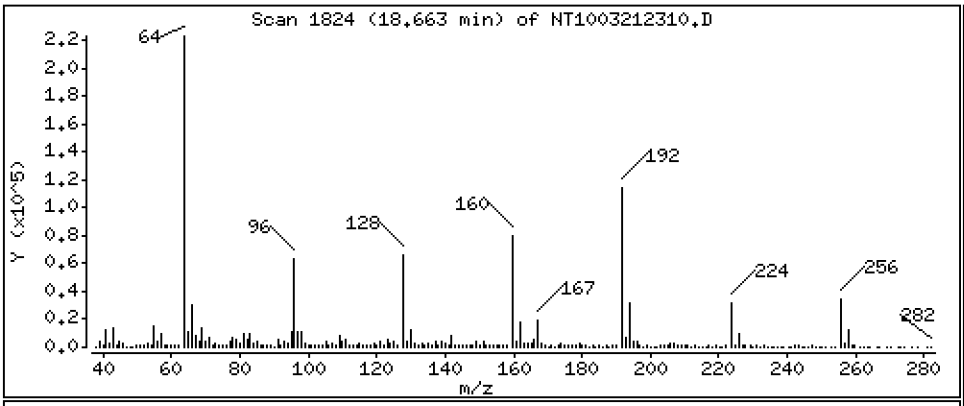
Operator: VTS

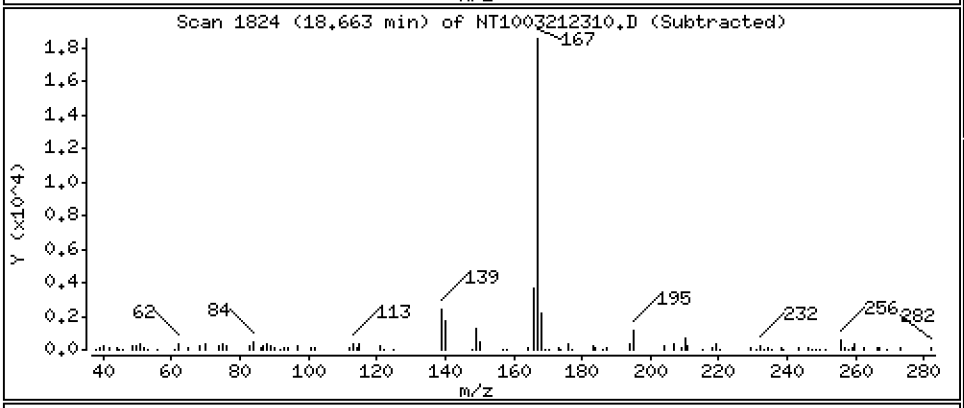
Column phase: ZB-5msi

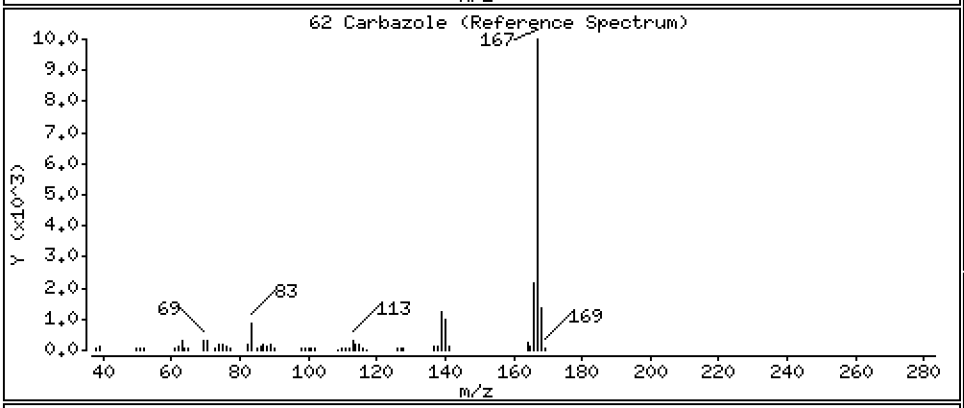
Column diameter: 0.25

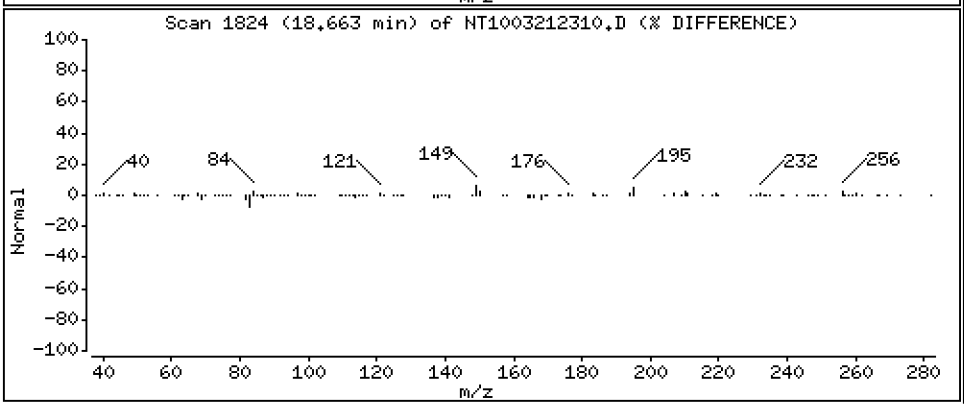
62 Carbazole

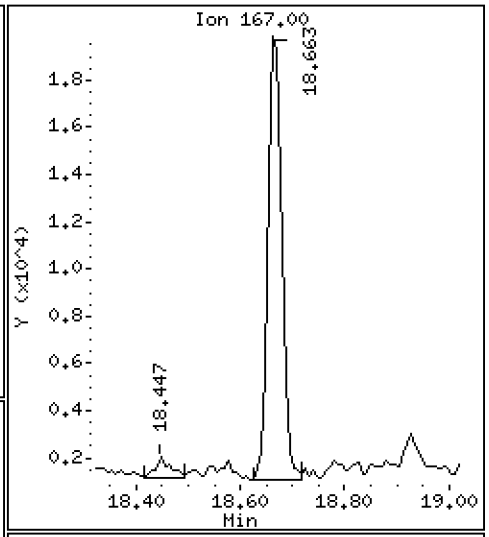
Concentration: 0.1855 ug/mL

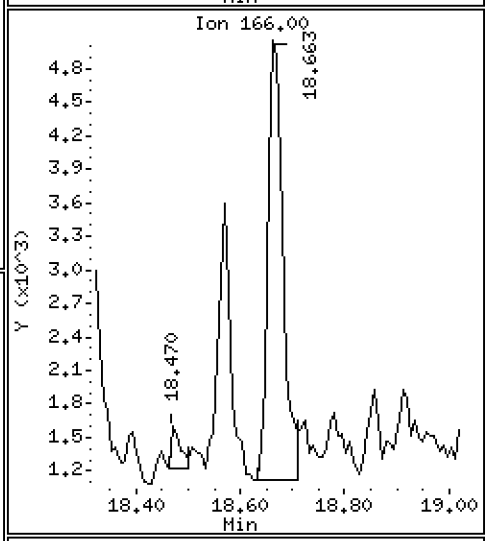


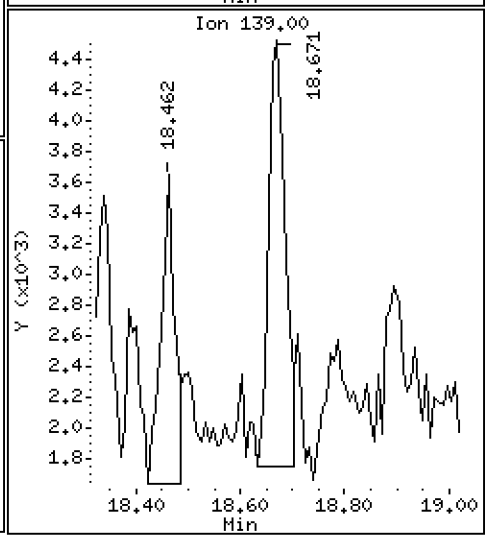












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Date : 21-MAR-2023 22:56

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-01

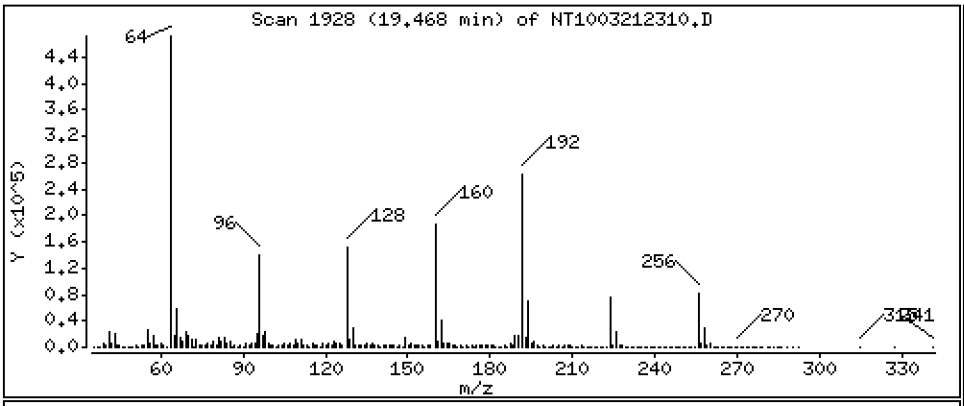
Operator: VTS

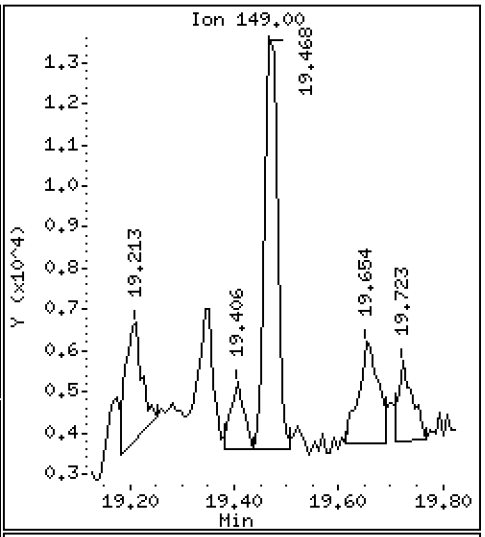
Column phase: ZB-5msi

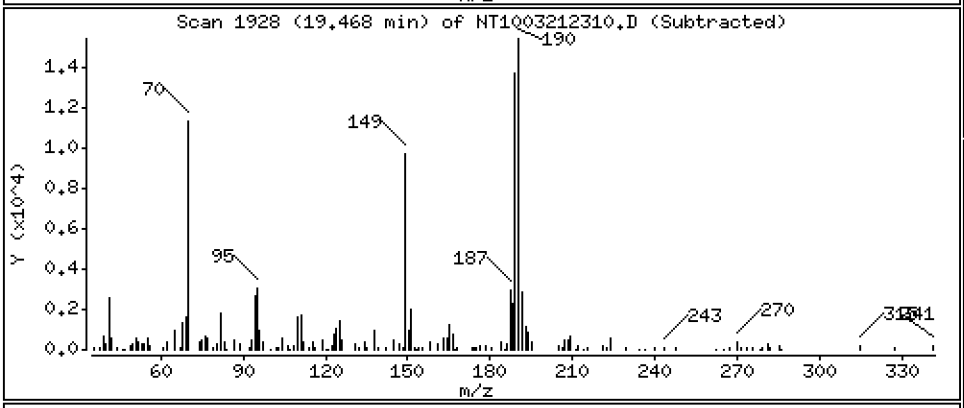
Column diameter: 0.25

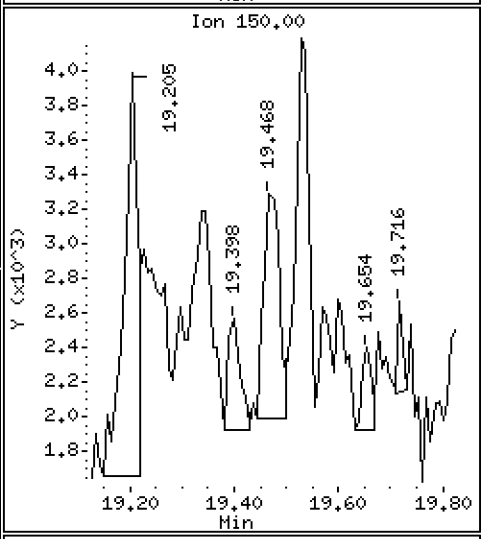
63 Di-n-butylphthalate

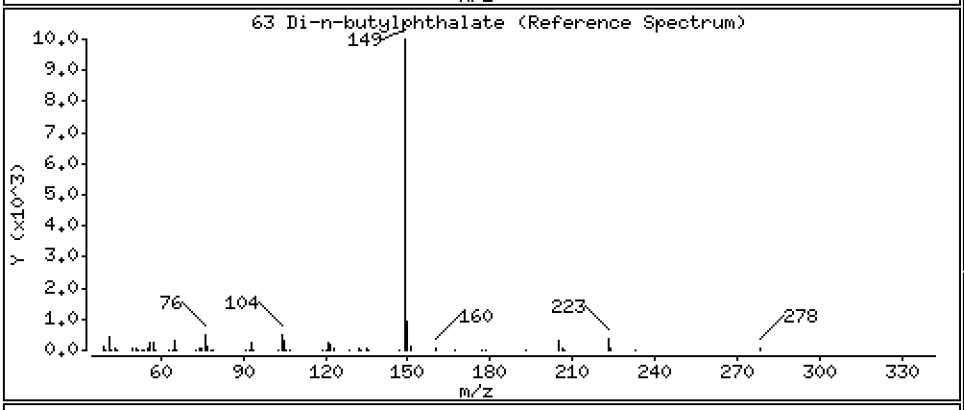
Concentration: 0.06698 ug/mL

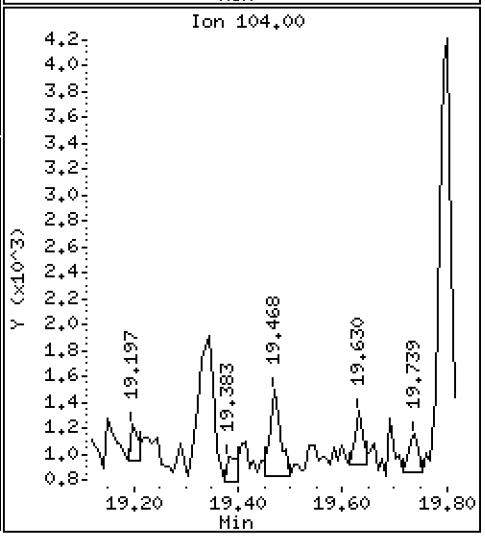


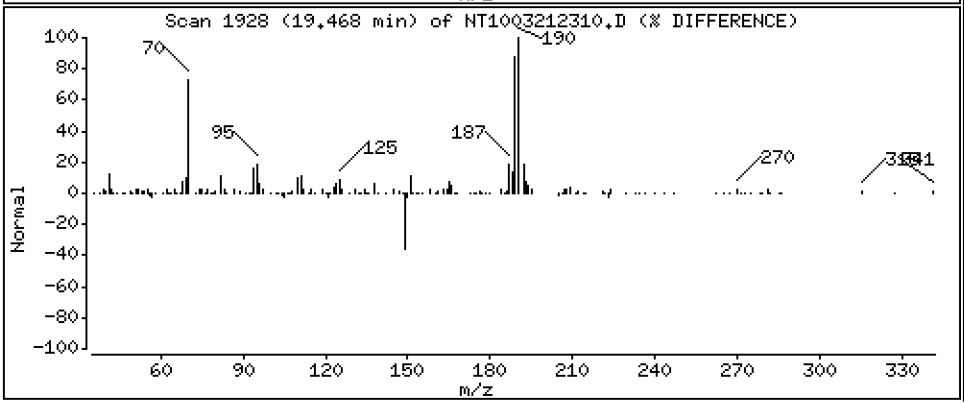












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Date : 21-MAR-2023 22:56

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-01

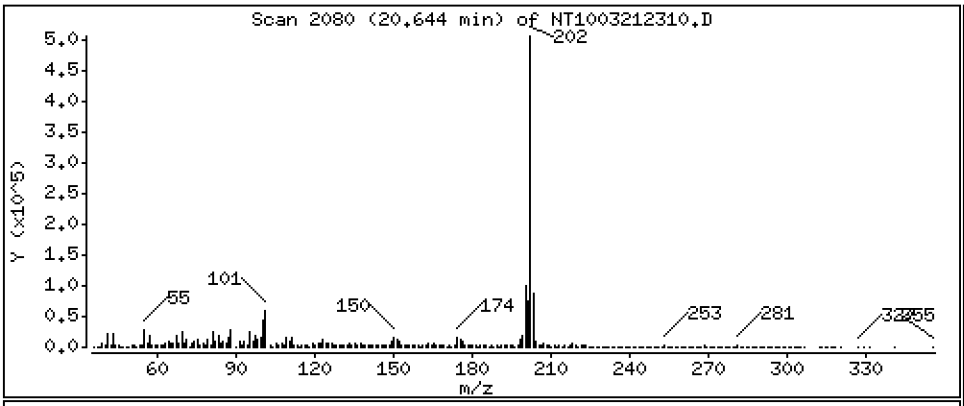
Operator: VTS

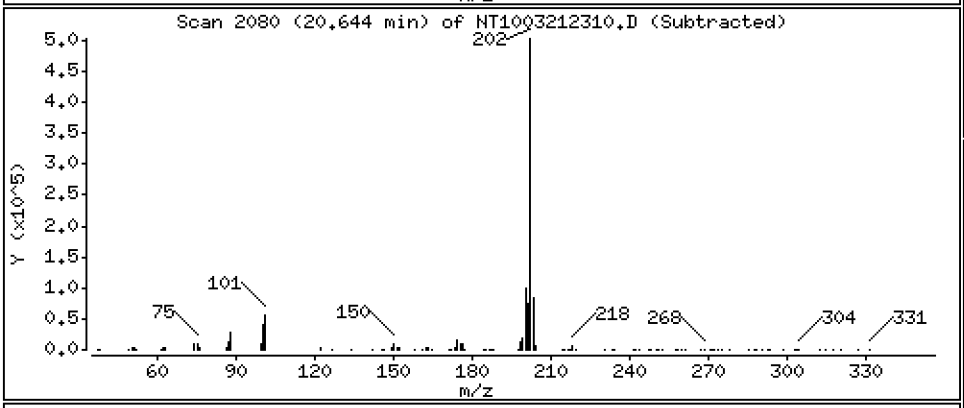
Column phase: ZB-5msi

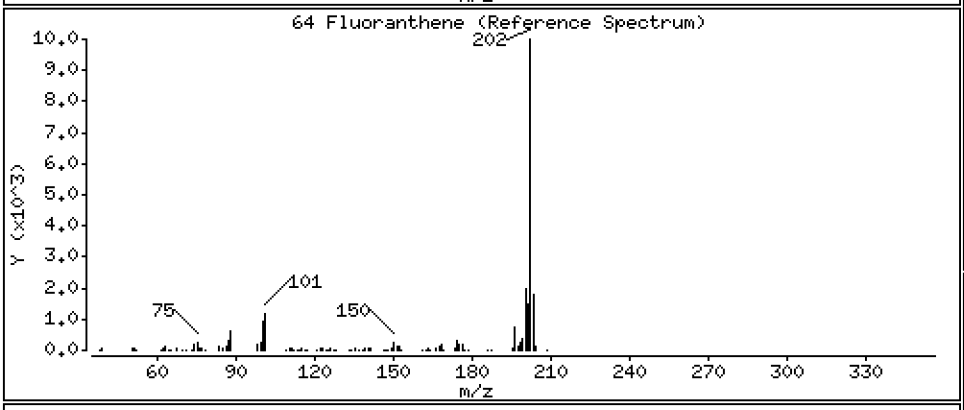
Column diameter: 0.25

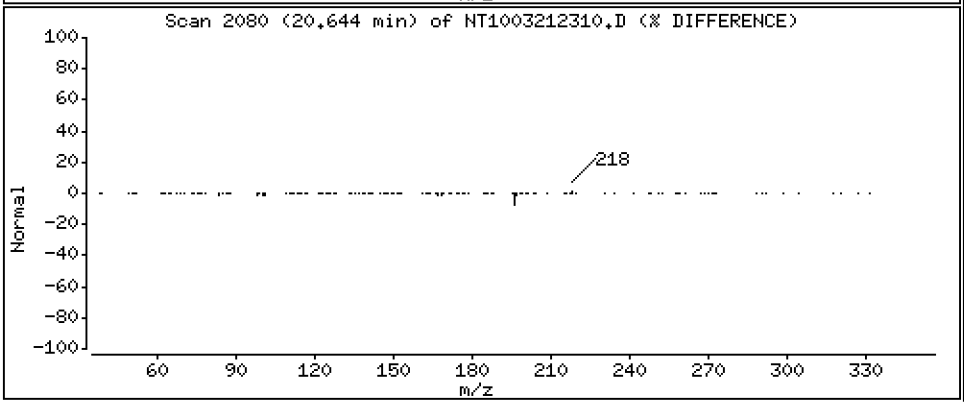
64 Fluoranthene

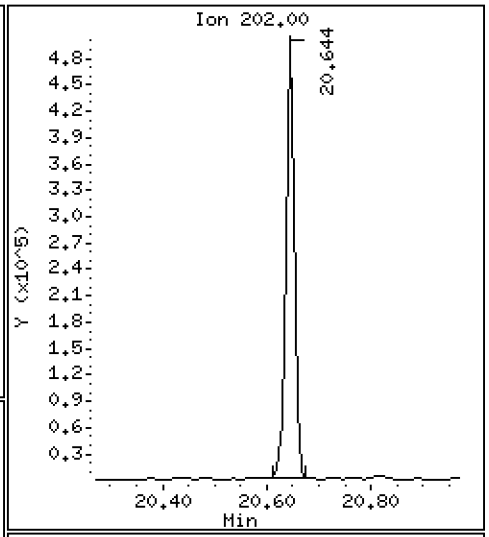
Concentration: 2.028 ug/mL

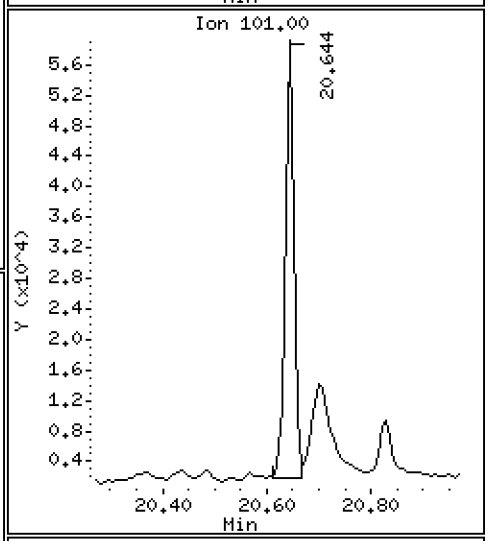


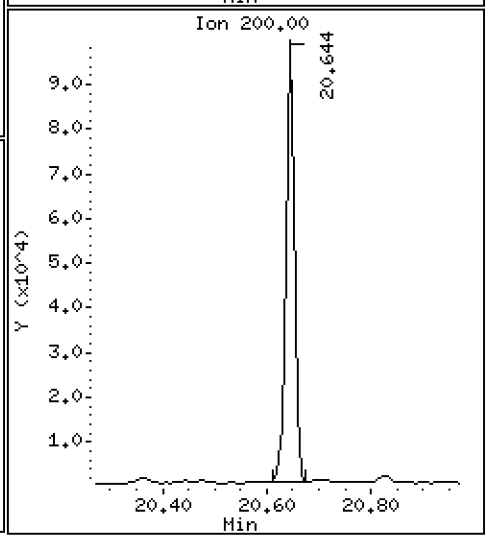












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Date : 21-MAR-2023 22:56

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-01

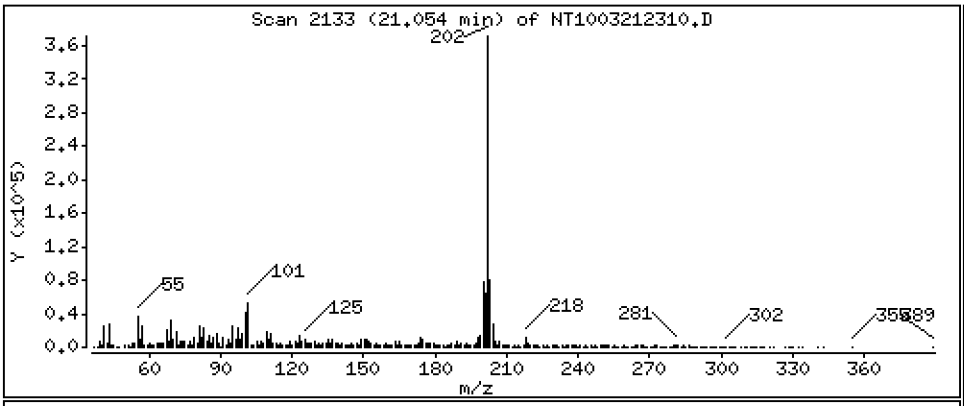
Operator: VTS

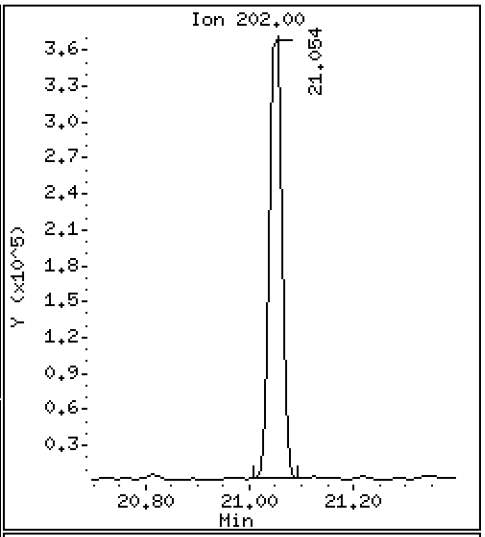
Column phase: ZB-5msi

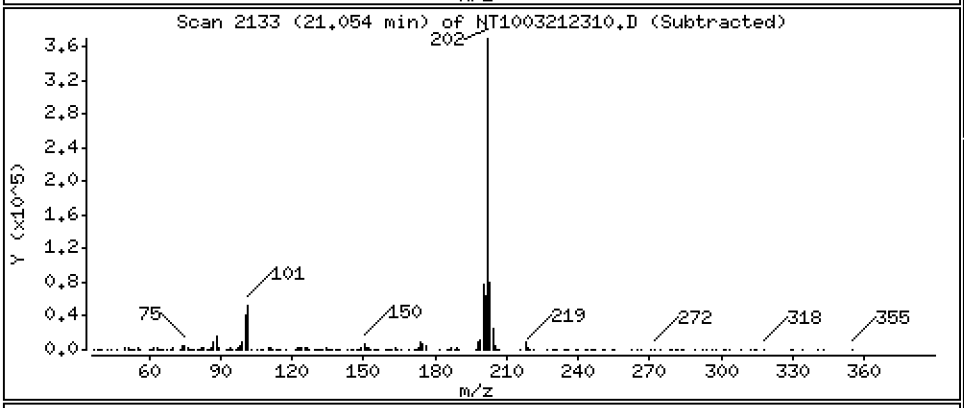
Column diameter: 0.25

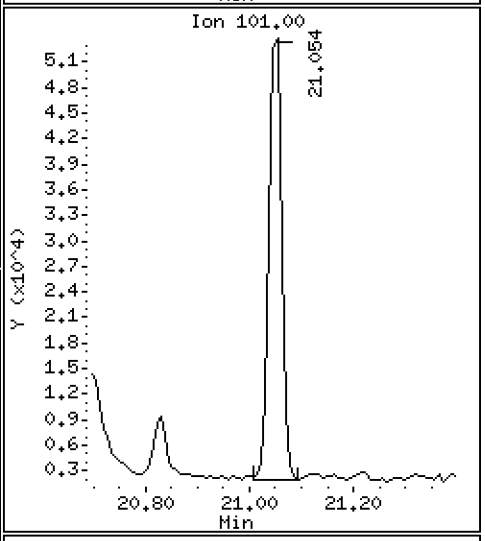
65 Pyrene

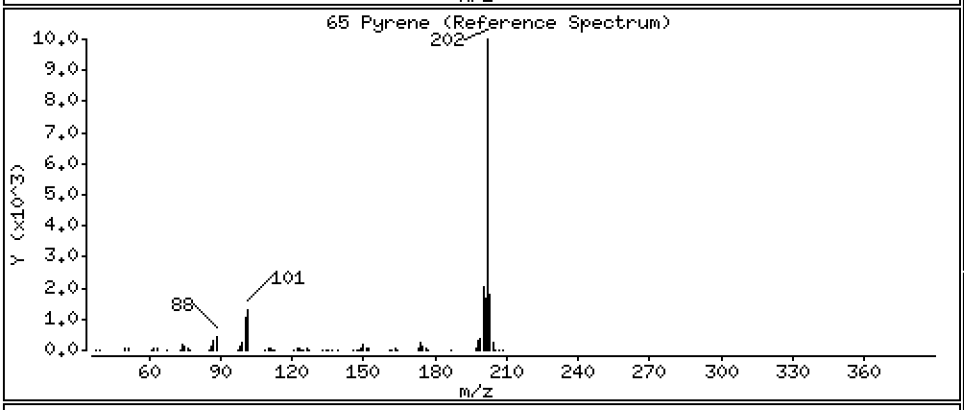
Concentration: 1.989 ug/mL

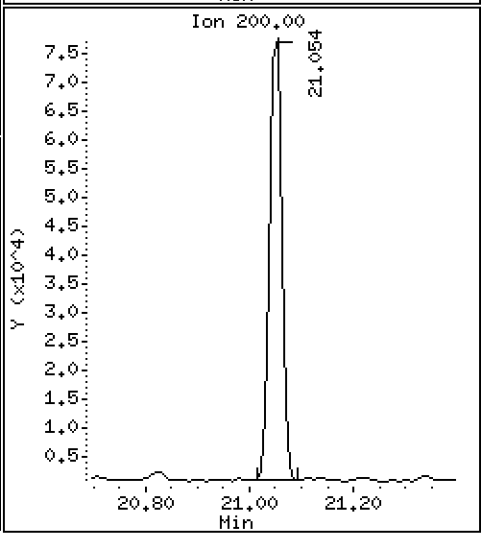


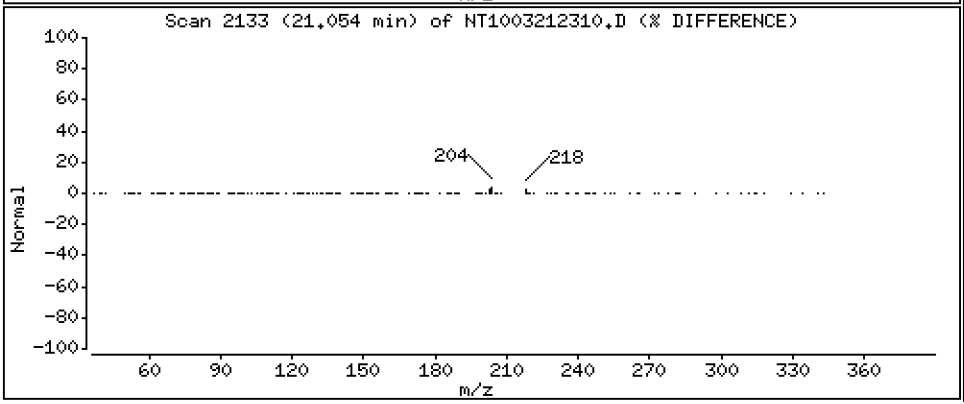












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Date : 21-MAR-2023 22:56

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-01

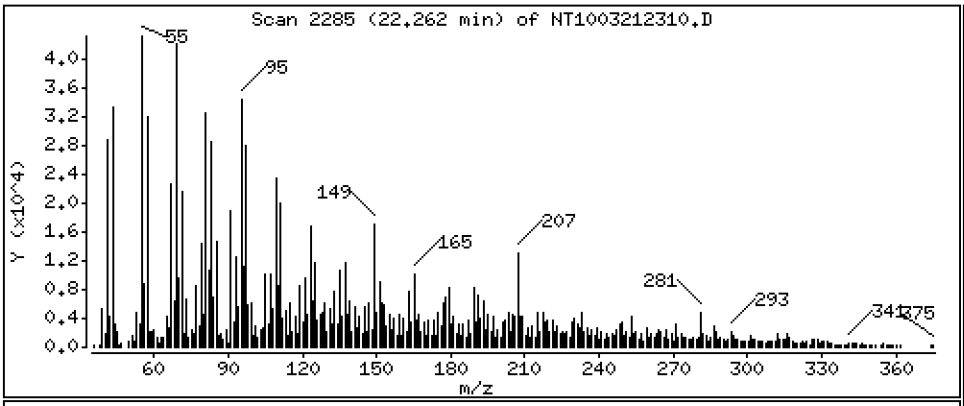
Operator: VTS

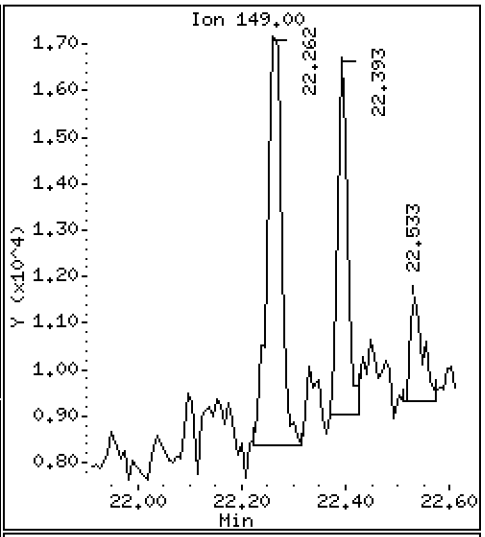
Column phase: ZB-5msi

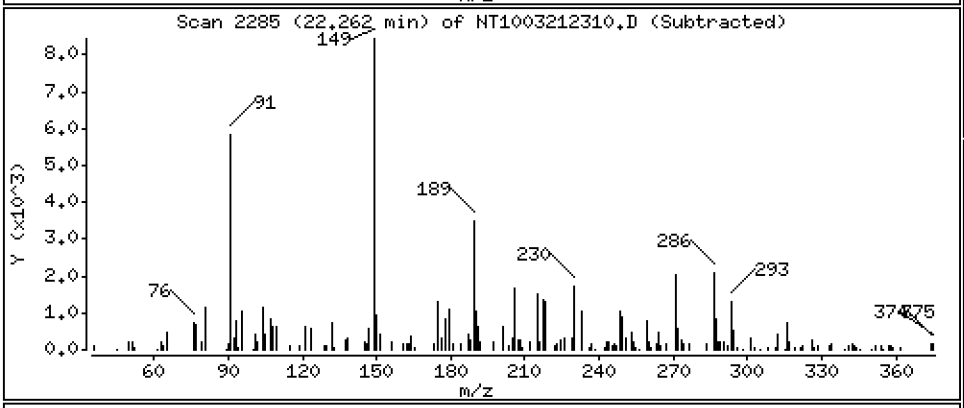
Column diameter: 0.25

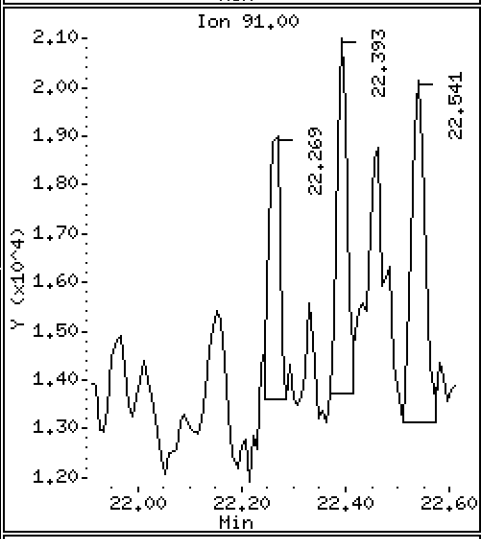
67 Butylbenzylphthalate

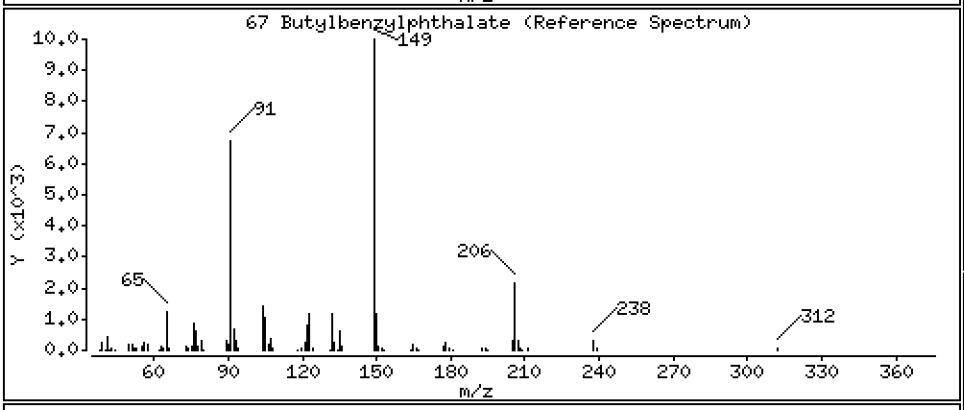
Concentration: 0.1583 ug/mL

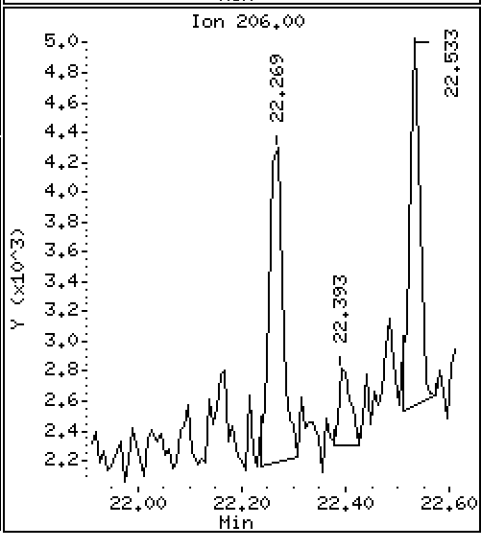


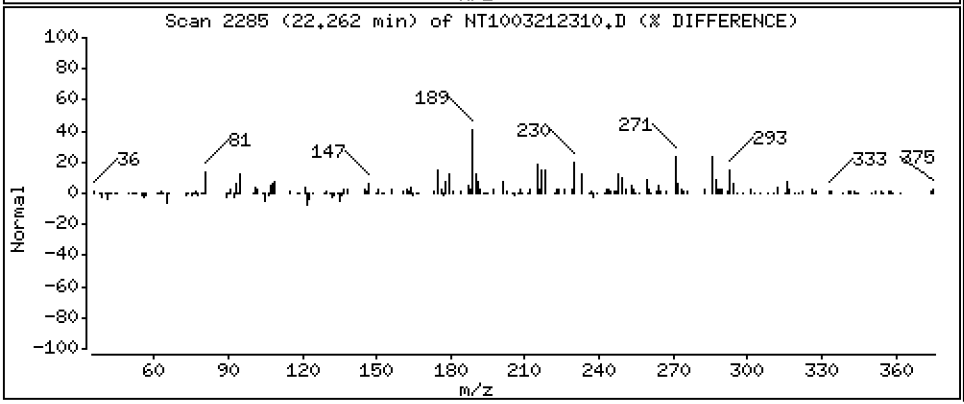












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Date : 21-MAR-2023 22:56

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-01

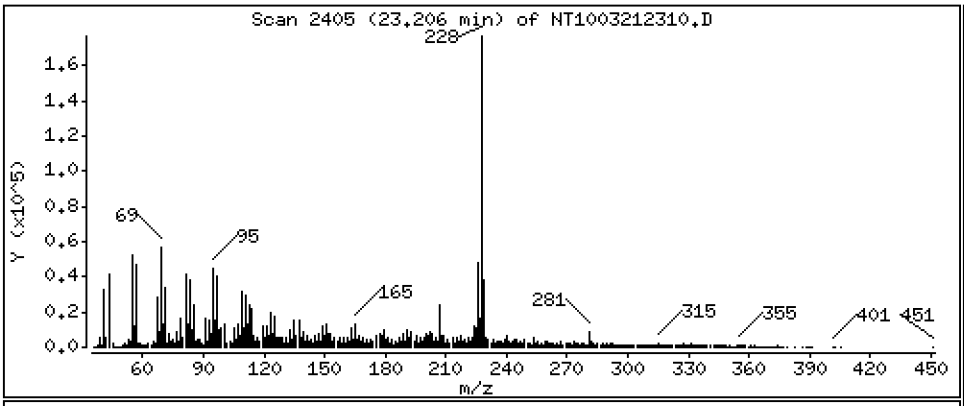
Operator: VTS

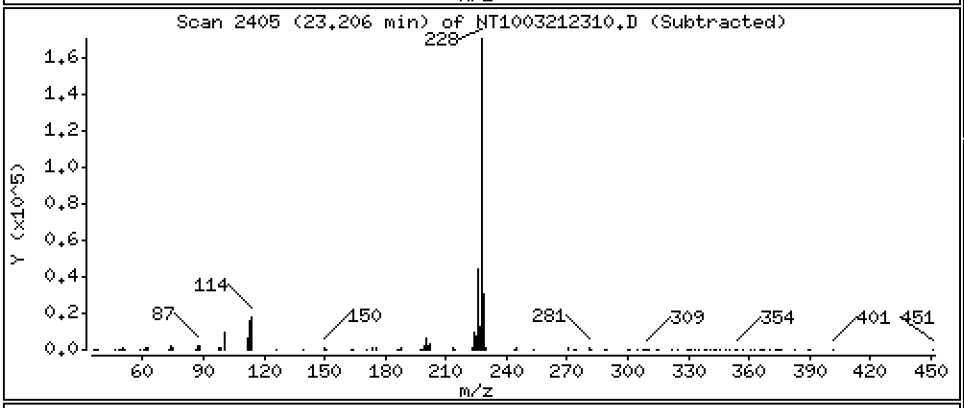
Column phase: ZB-5msi

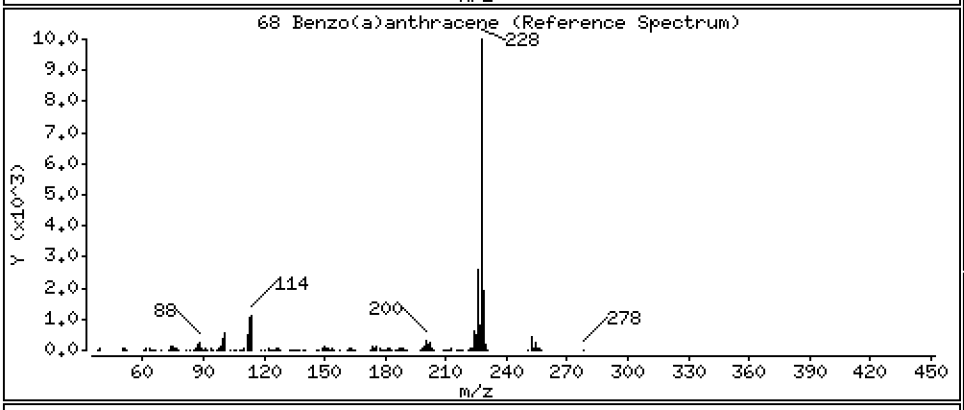
Column diameter: 0.25

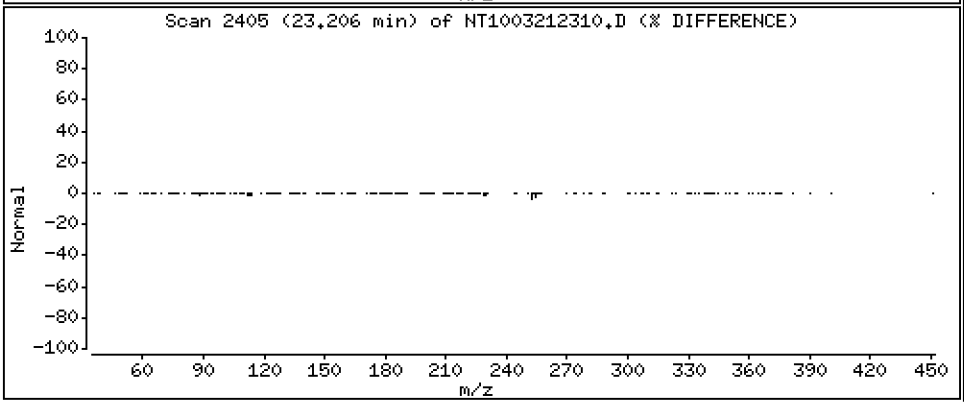
68 Benzo(a)anthracene

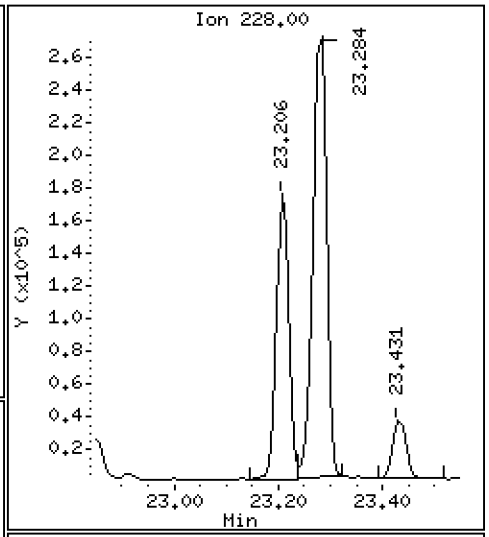
Concentration: 1.101 ug/mL

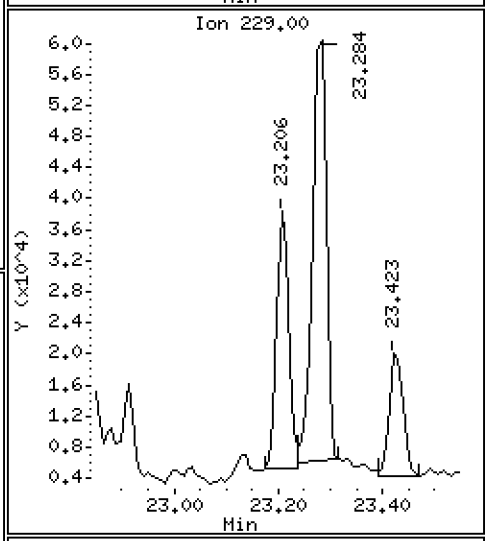


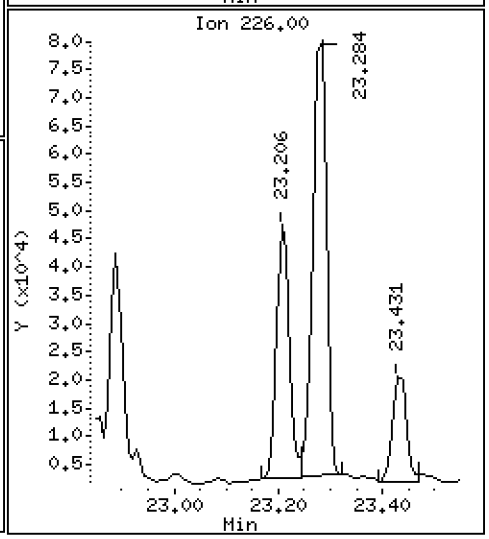












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212310.D

Date : 21-MAR-2023 22:56

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-01

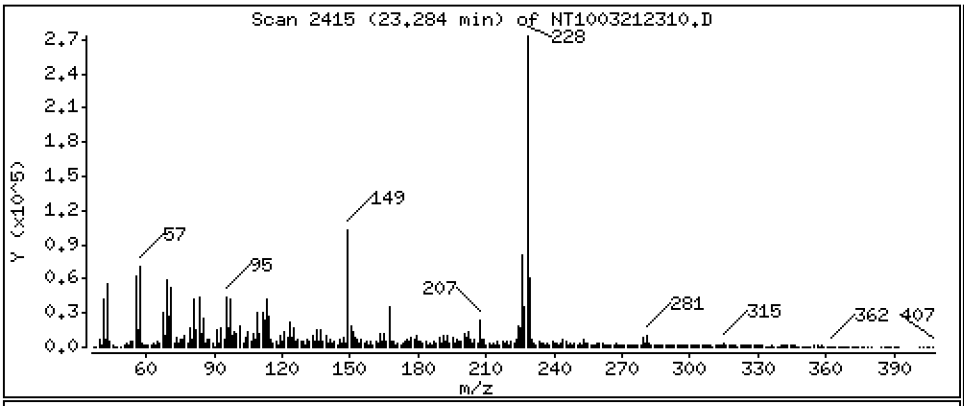
Operator: VTS

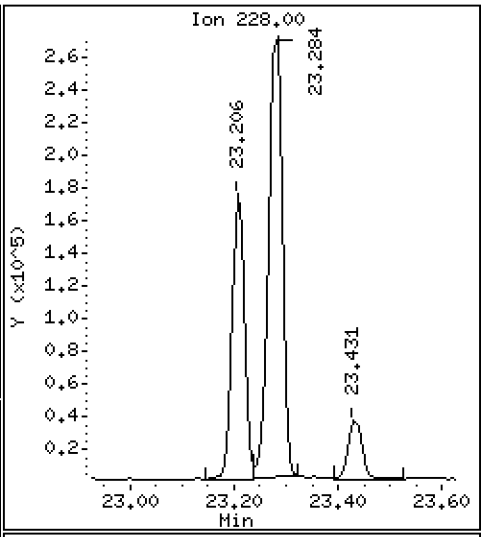
Column phase: ZB-5msi

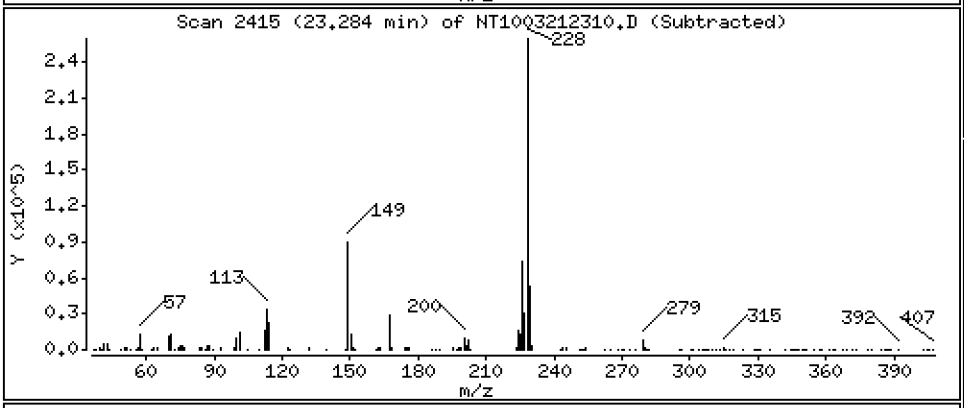
Column diameter: 0.25

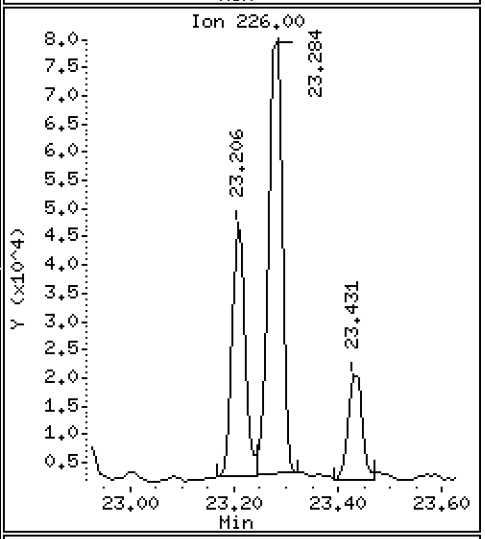
71 Chrysene

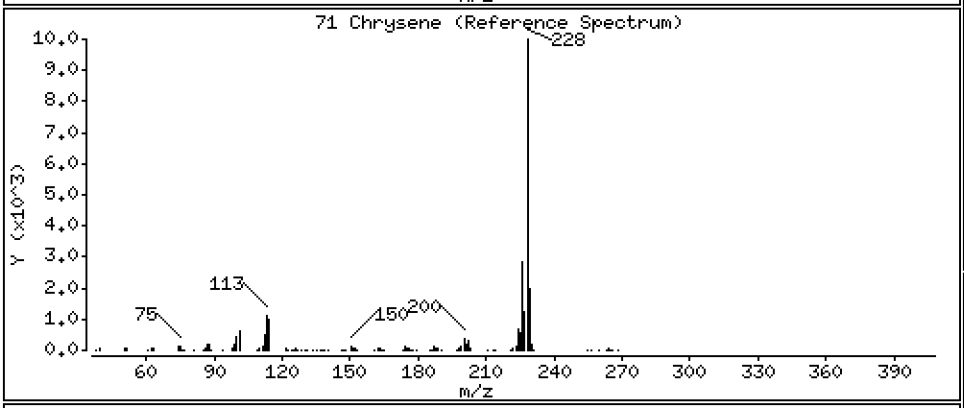
Concentration: 1.923 ug/mL

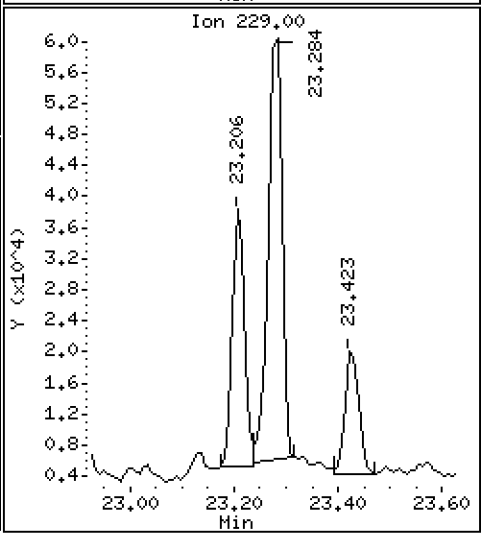


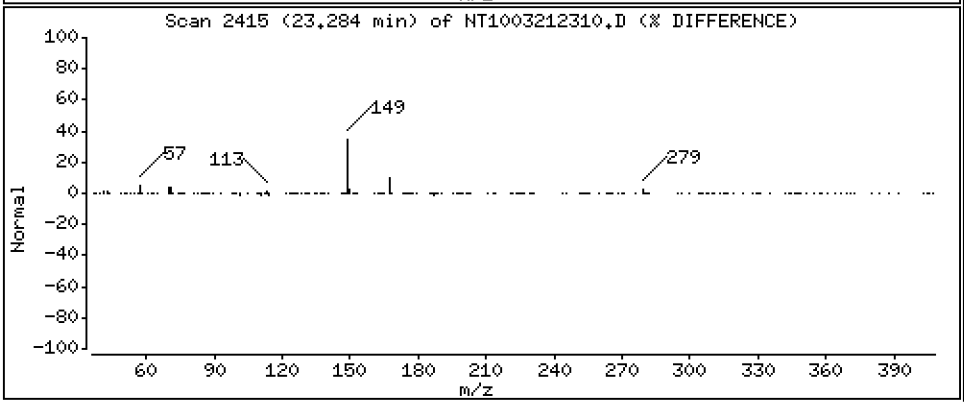












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212310.D

Date : 21-MAR-2023 22:56

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-01

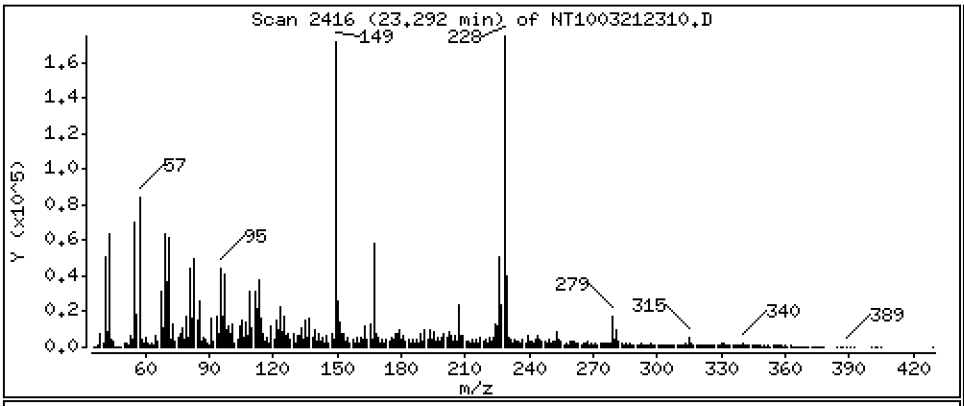
Operator: VTS

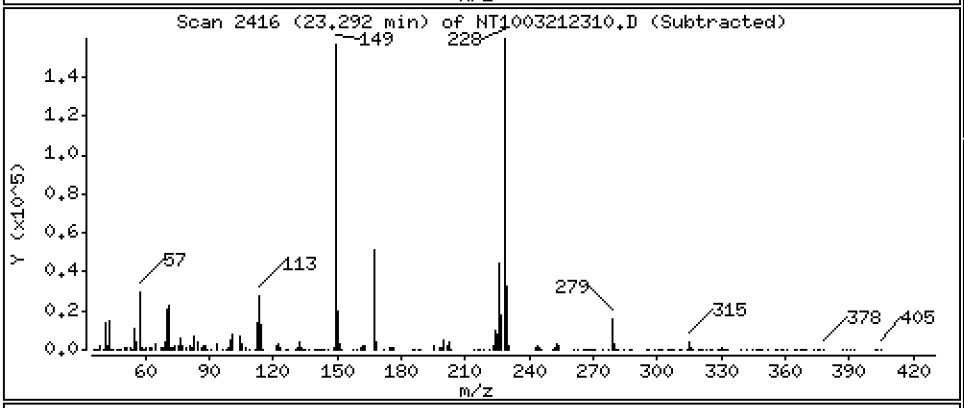
Column phase: ZB-5msi

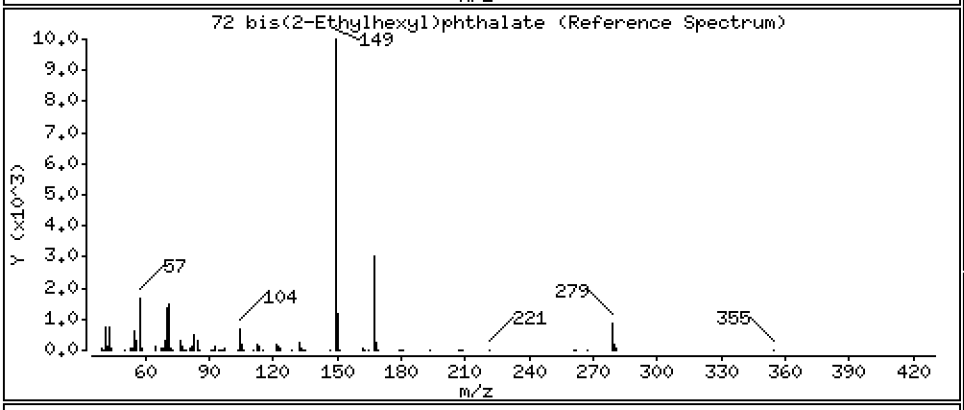
Column diameter: 0.25

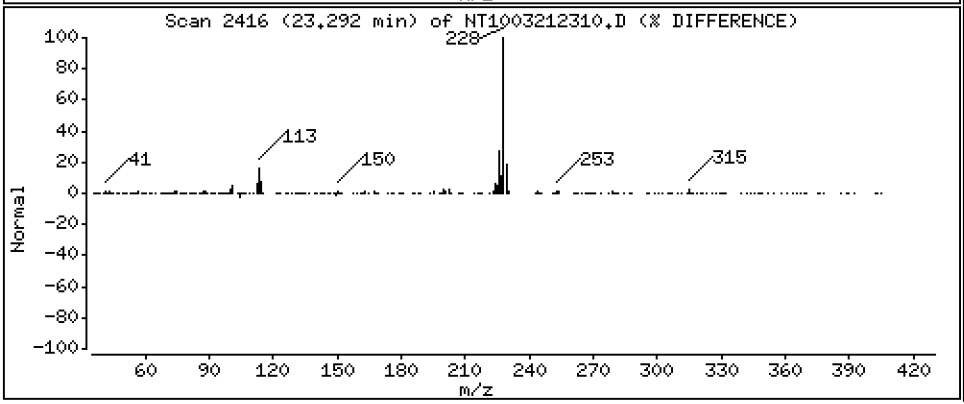
72 bis(2-Ethylhexyl)phthalate

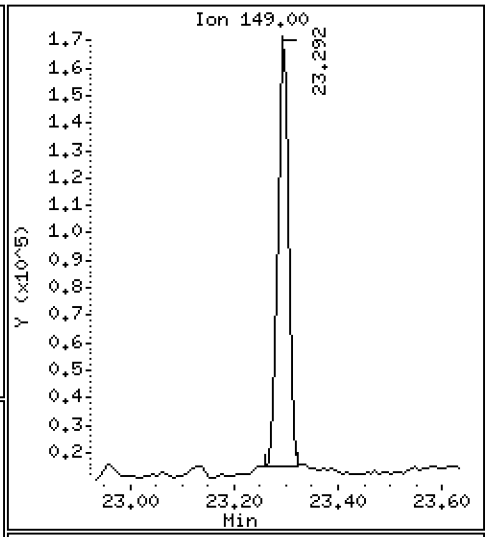
Concentration: 1.291 ug/mL

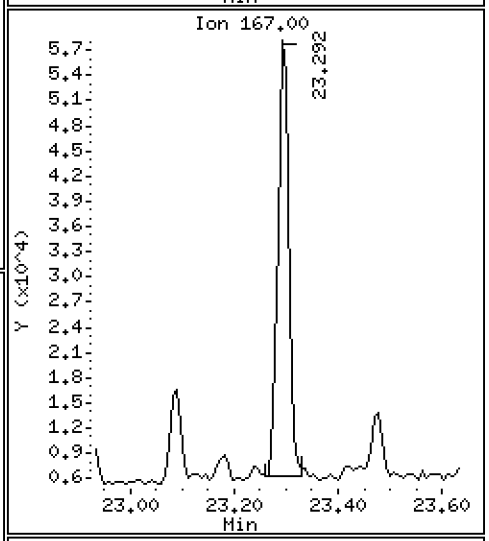


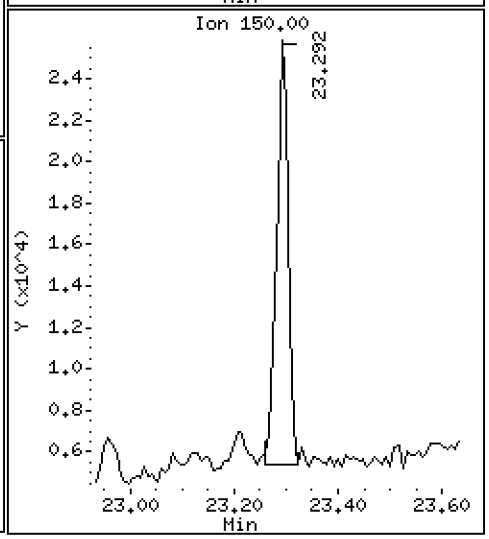












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Date : 21-MAR-2023 22:56

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-01

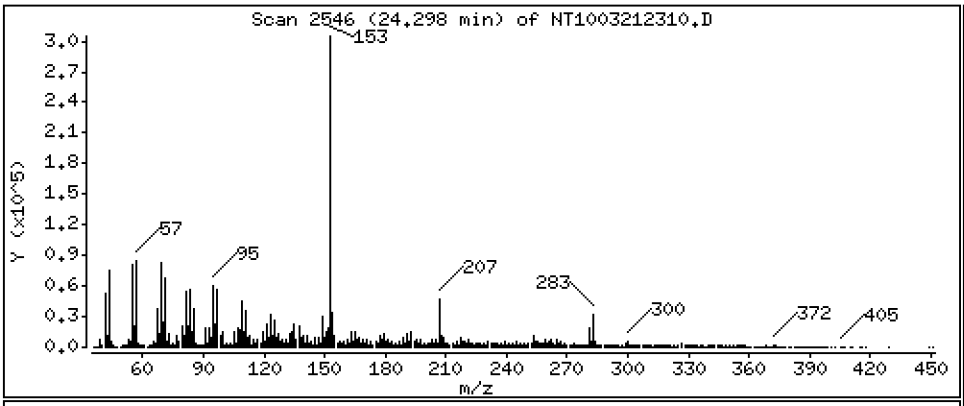
Operator: VTS

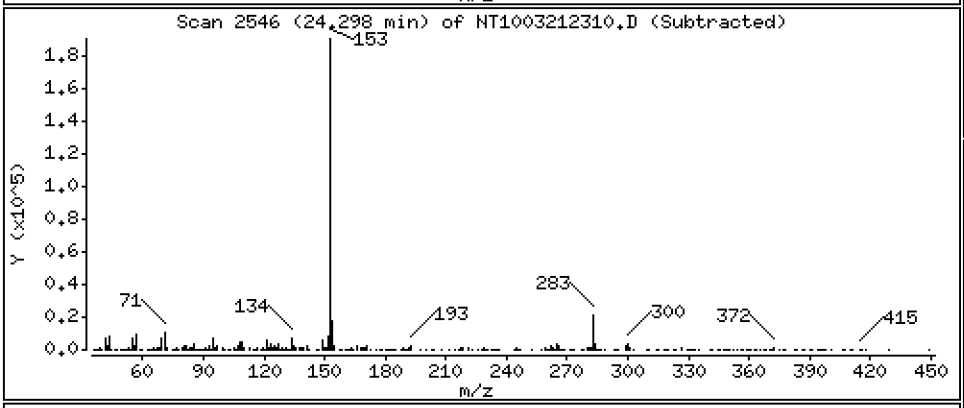
Column phase: ZB-5msi

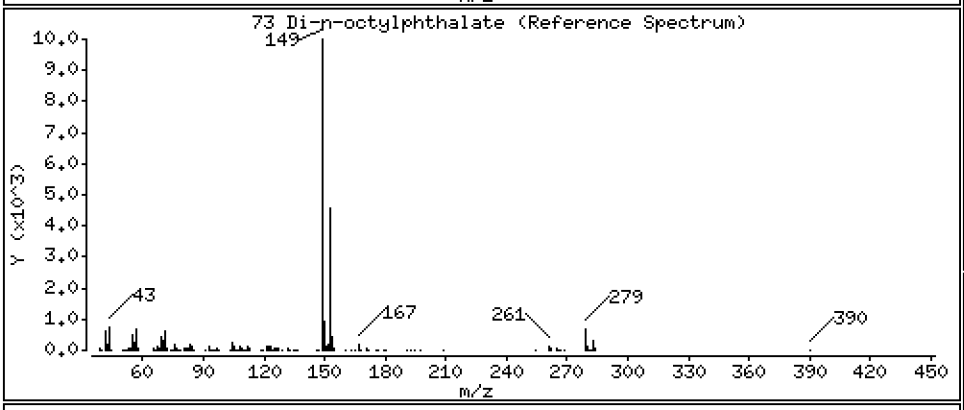
Column diameter: 0.25

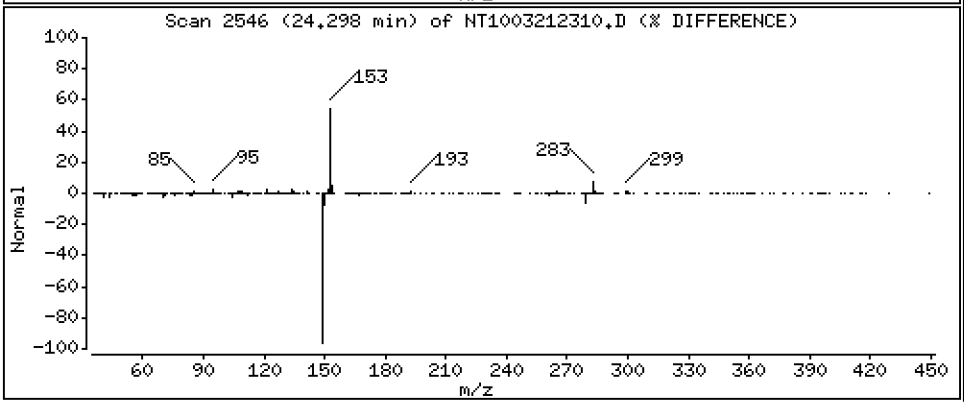
73 Di-n-octylphthalate

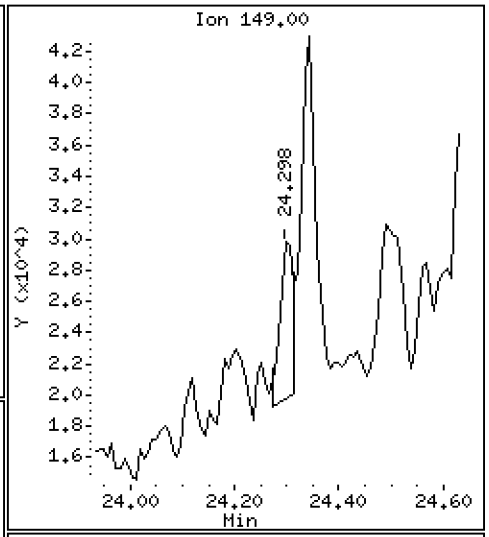
Concentration: 0.05779 ug/mL

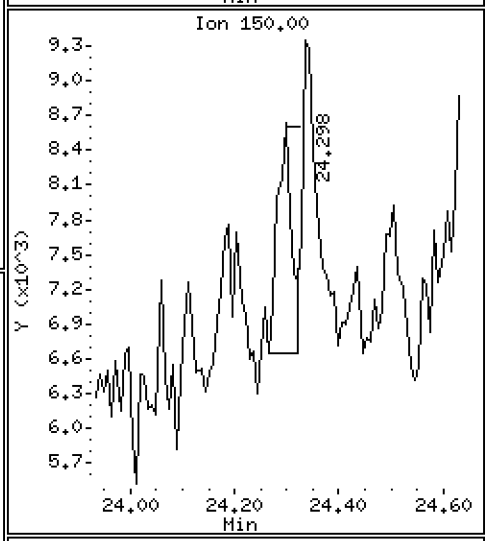


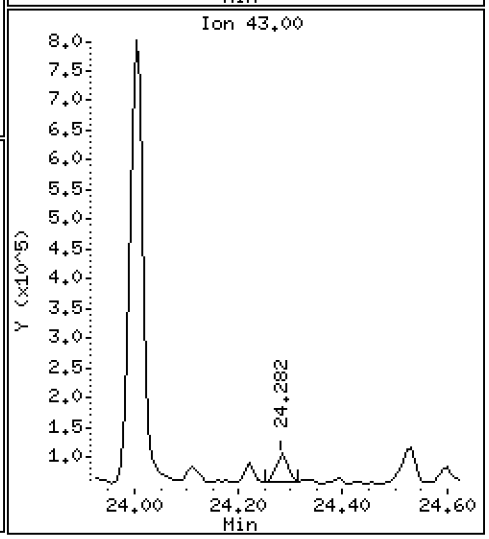












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Date : 21-MAR-2023 22:56

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-01

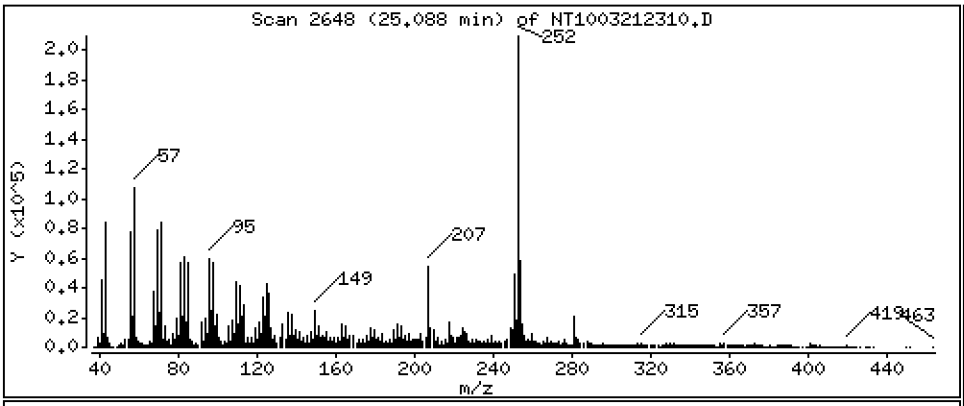
Operator: VTS

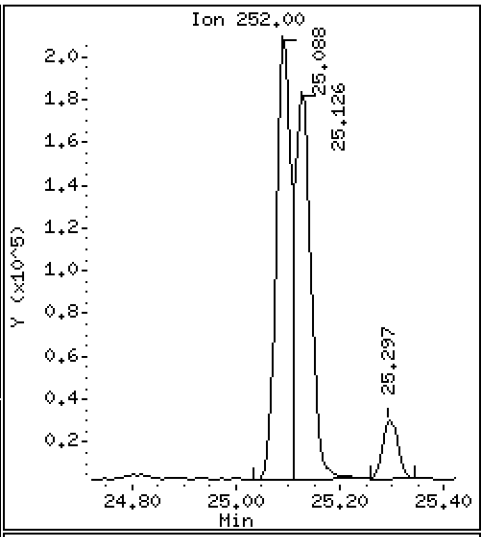
Column phase: ZB-5msi

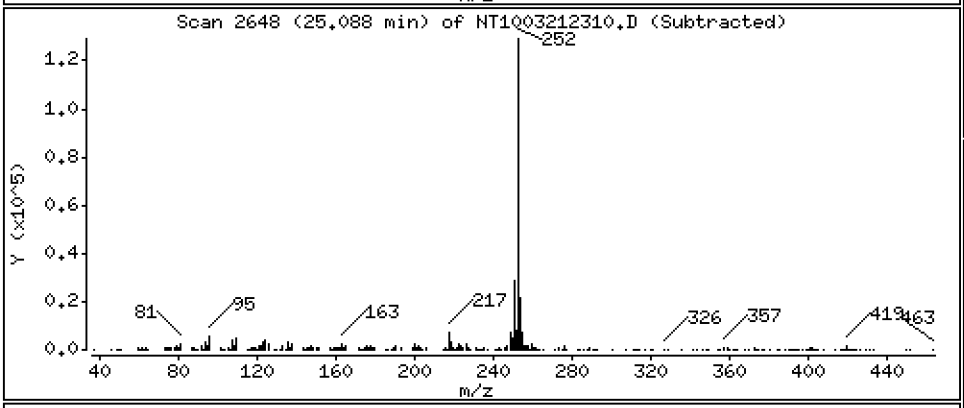
Column diameter: 0.25

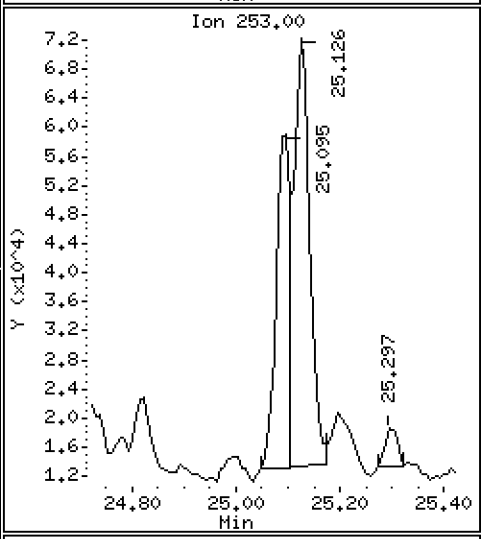
74 Benzo(b)fluoranthene

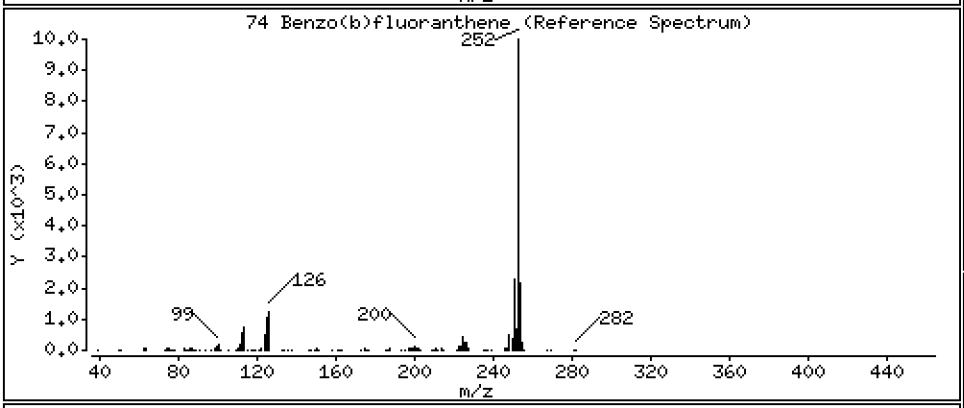
Concentration: 1.617 ug/mL

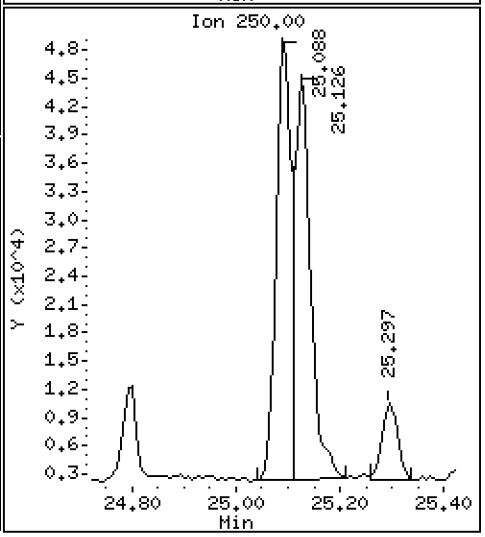


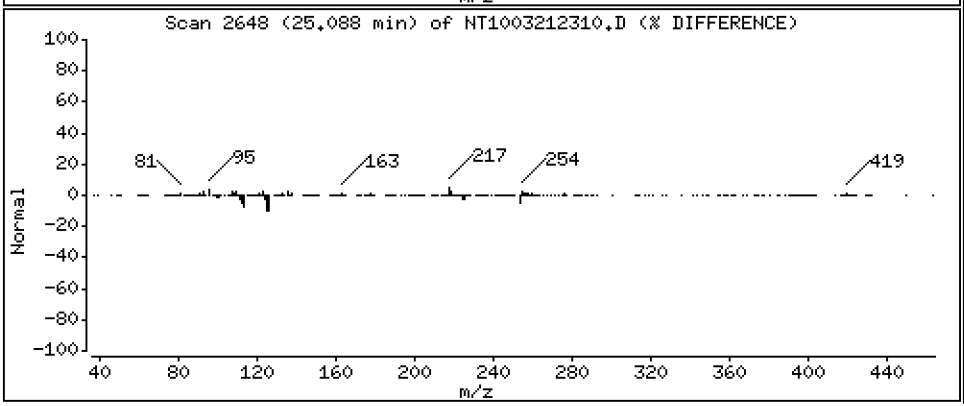












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Date : 21-MAR-2023 22:56

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-01

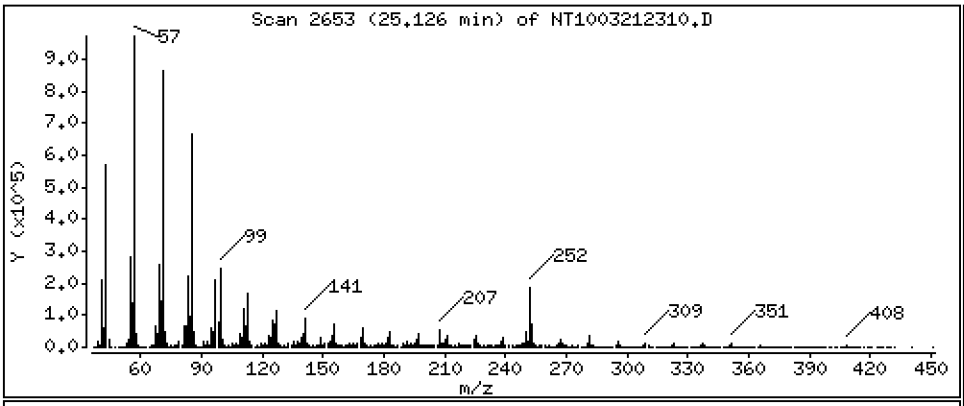
Operator: VTS

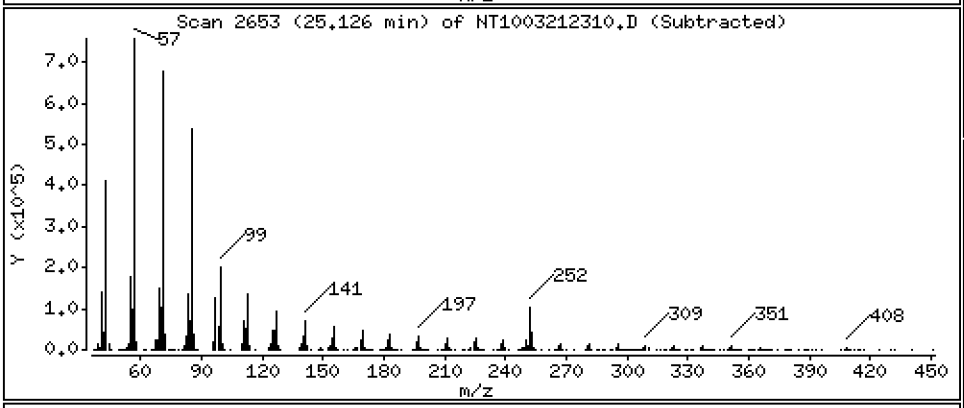
Column phase: ZB-5msi

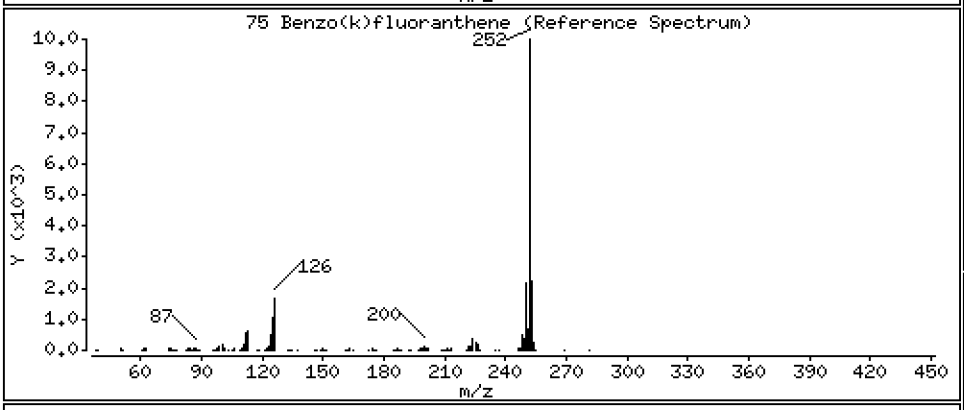
Column diameter: 0.25

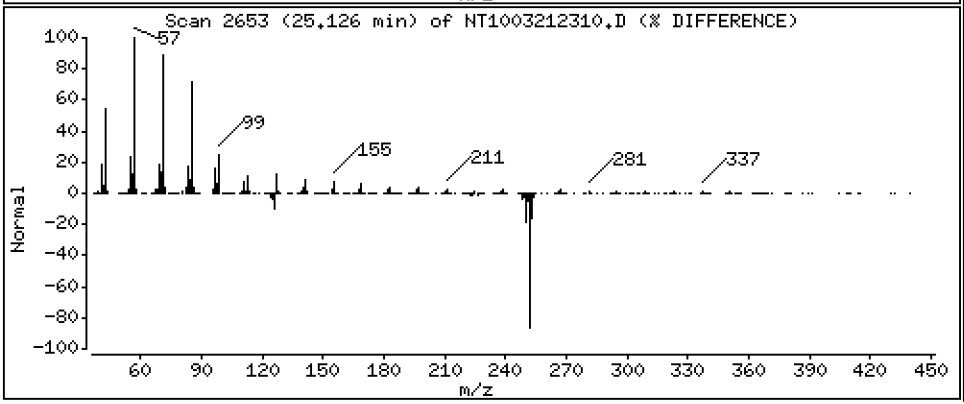
75 Benzo(k)fluoranthene

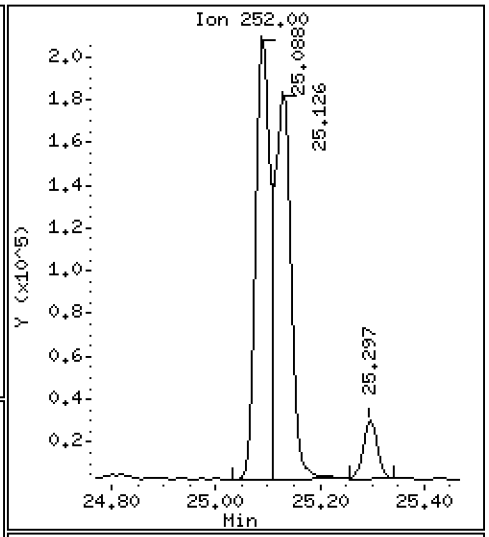
Concentration: 1.456 ug/mL

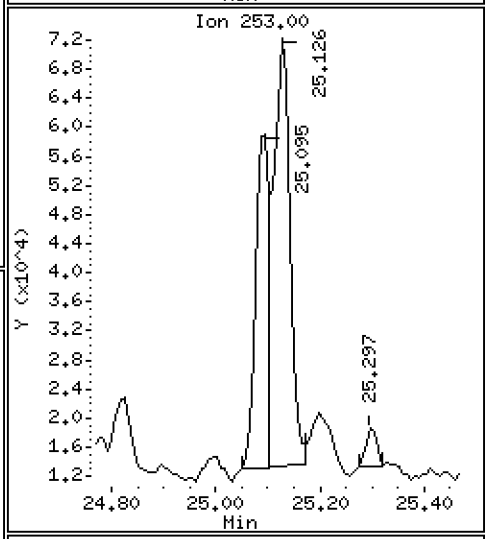


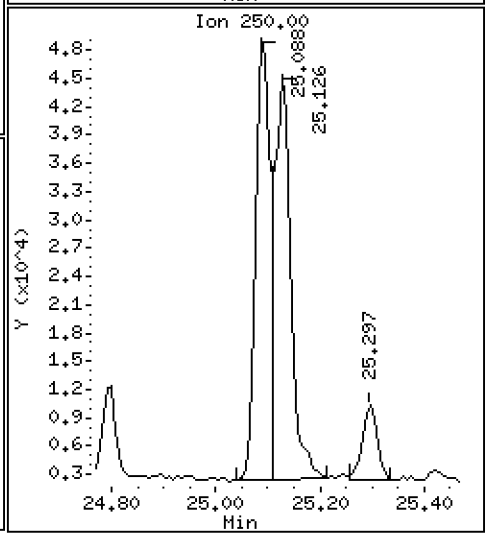












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Date : 21-MAR-2023 22:56

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-01

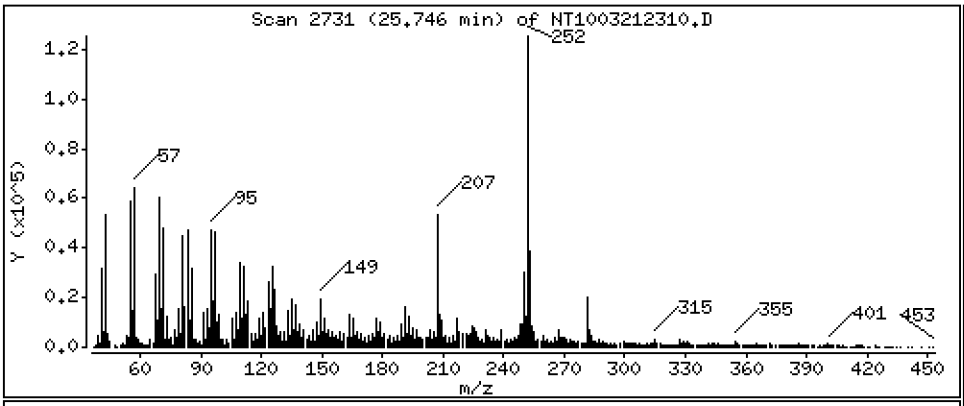
Operator: VTS

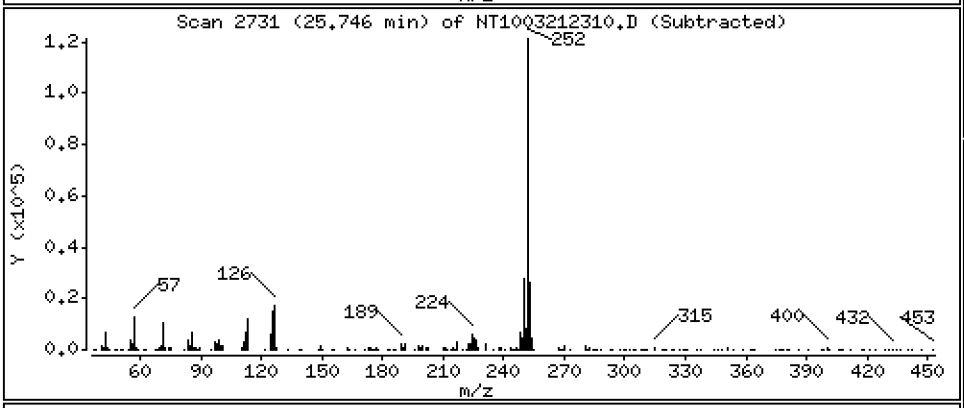
Column phase: ZB-5msi

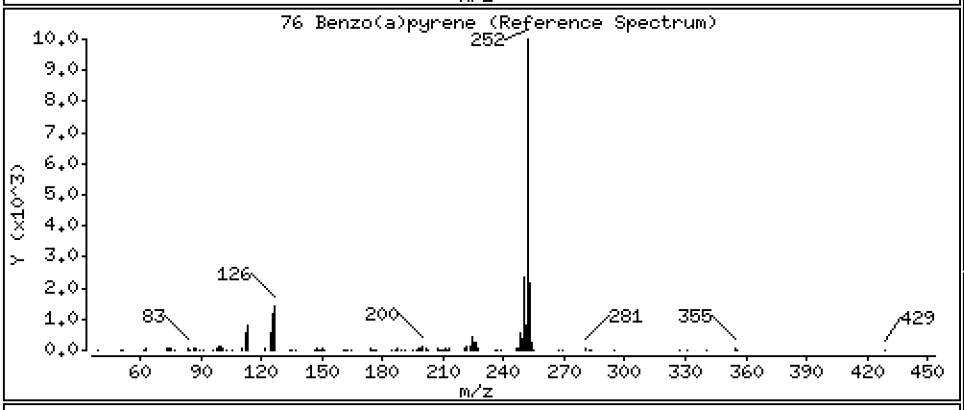
Column diameter: 0.25

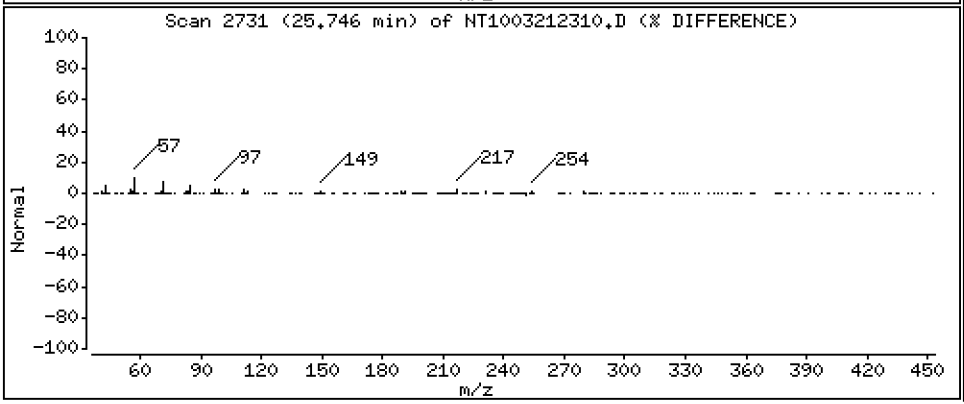
76 Benzo(a)pyrene

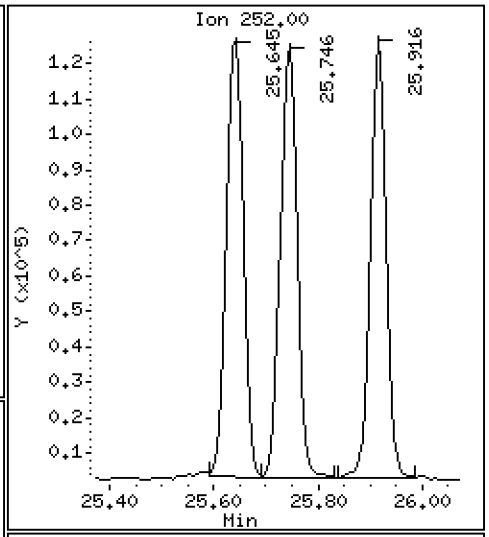
Concentration: 1.132 ug/mL

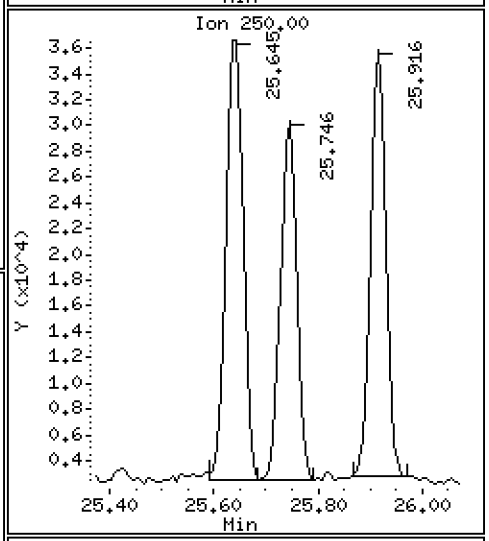


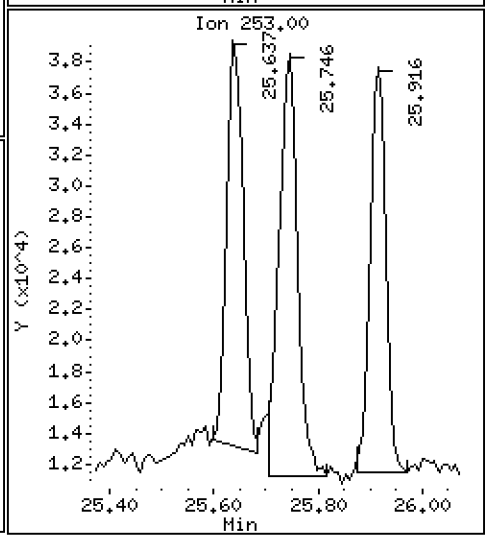












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Date : 21-MAR-2023 22:56

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-01

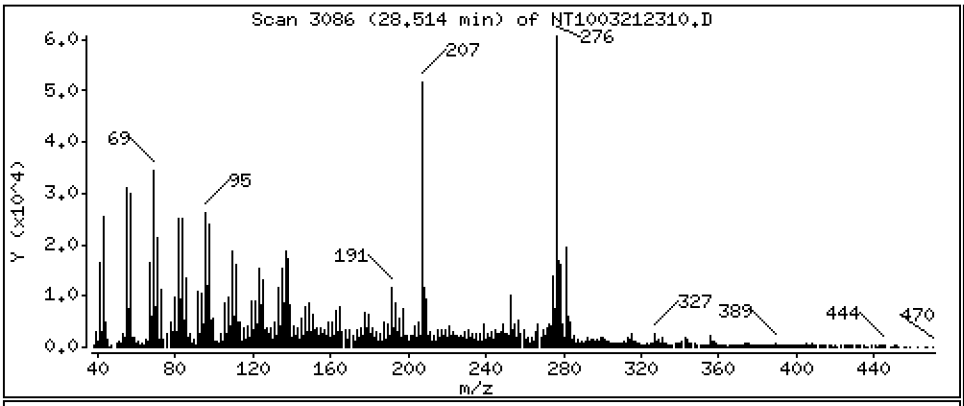
Operator: VTS

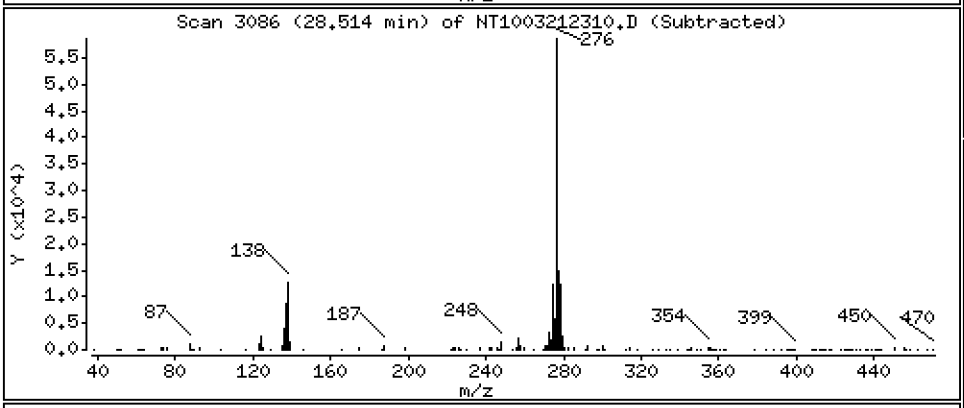
Column phase: ZB-5msi

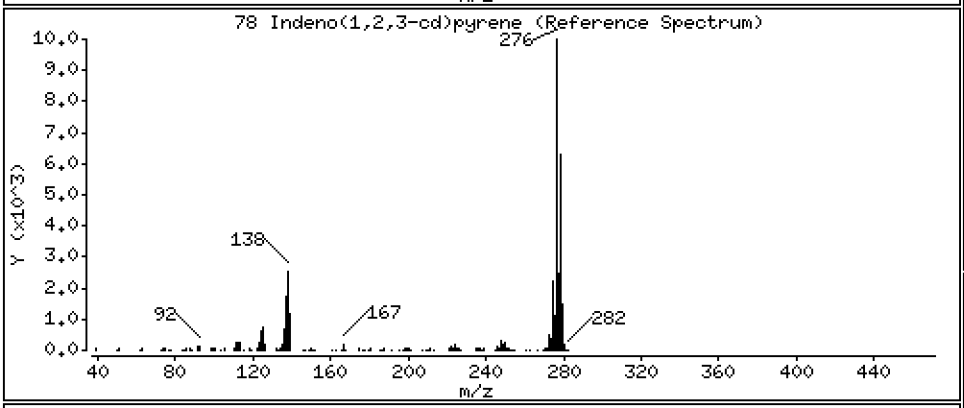
Column diameter: 0.25

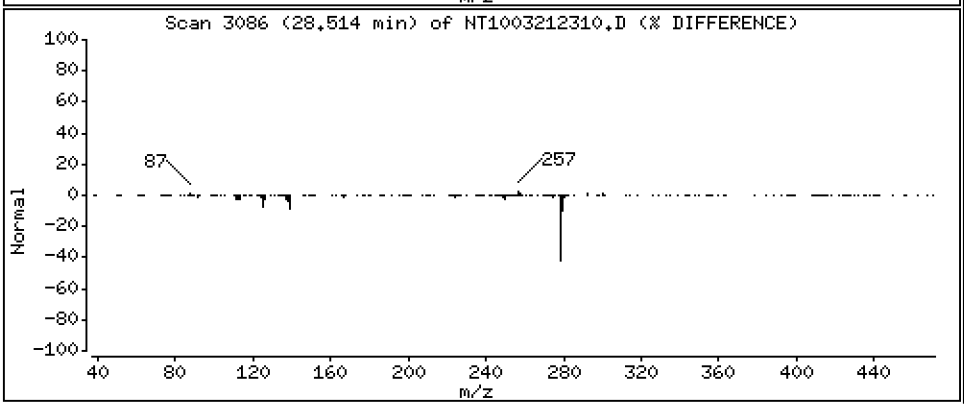
78 Indeno(1,2,3-cd)pyrene

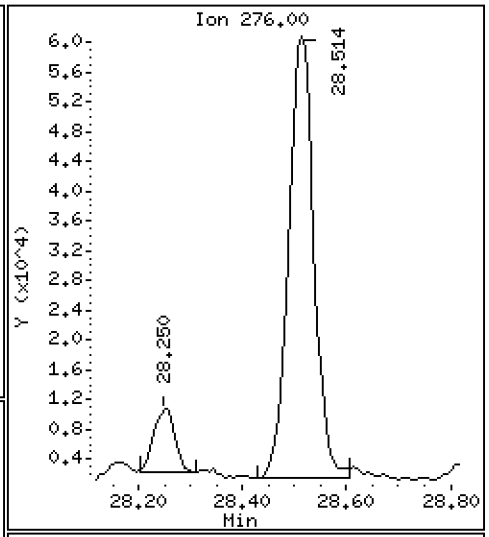
Concentration: 0.6650 ug/mL

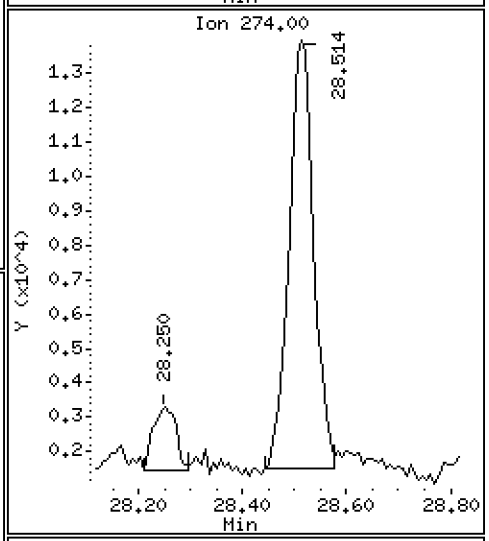


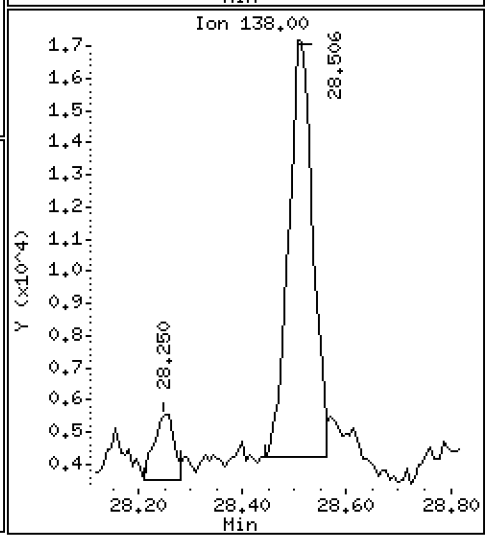












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Date : 21-MAR-2023 22:56

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-01

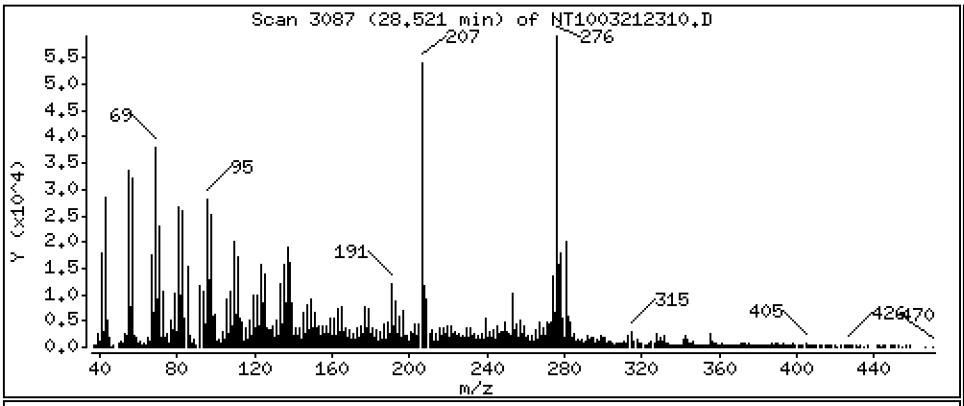
Operator: VTS

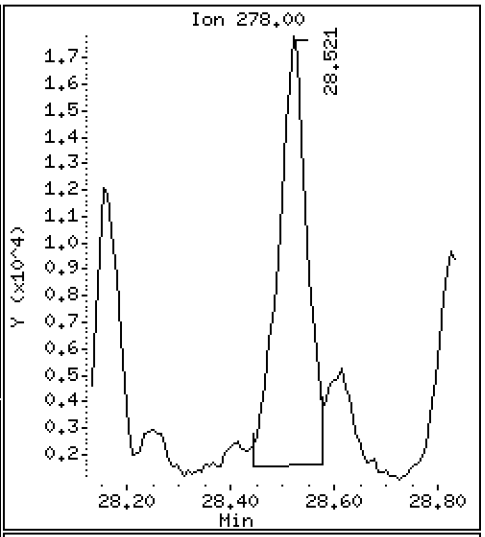
Column phase: ZB-5msi

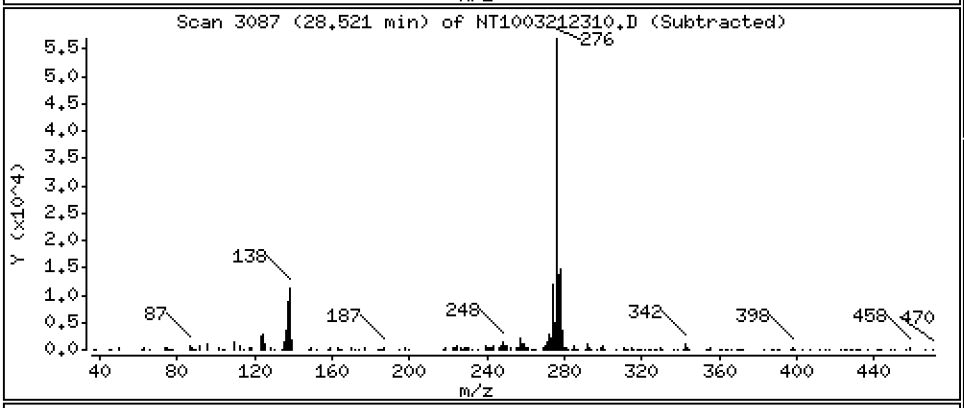
Column diameter: 0.25

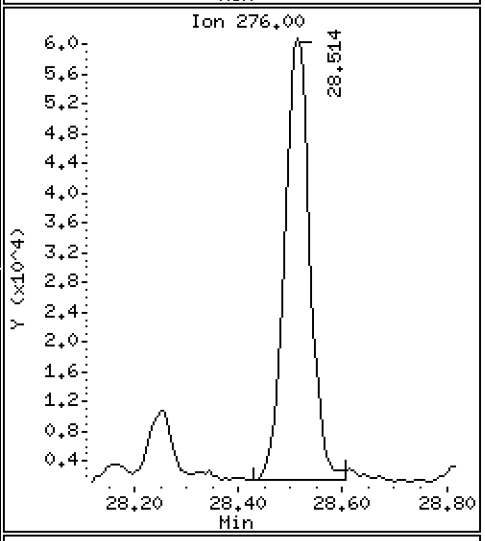
79 Dibenzo(a,h)anthracene

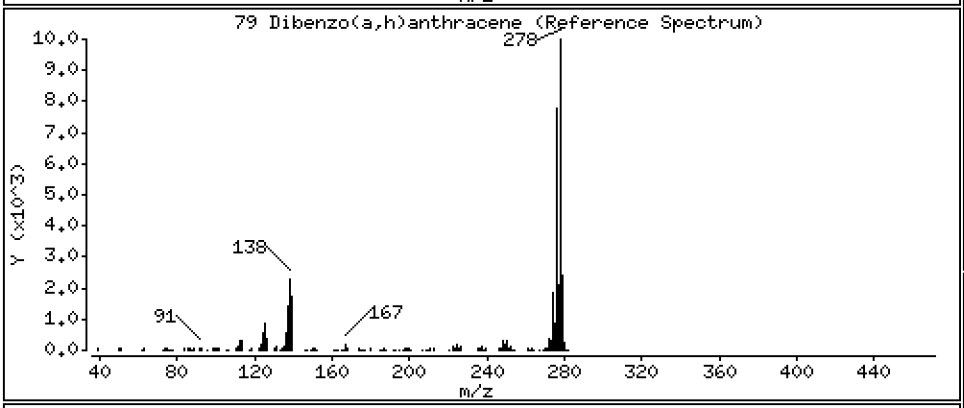
Concentration: 0.2426 ug/mL

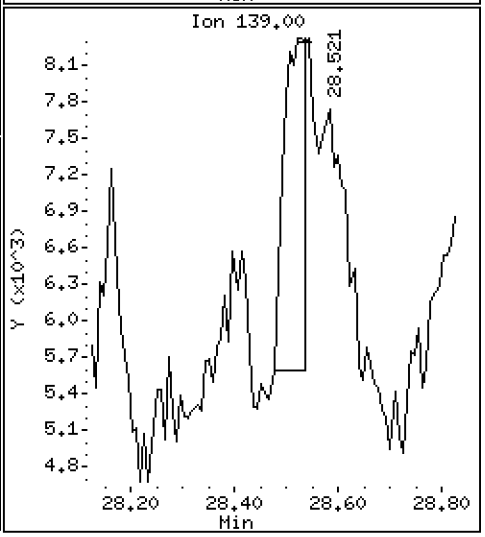


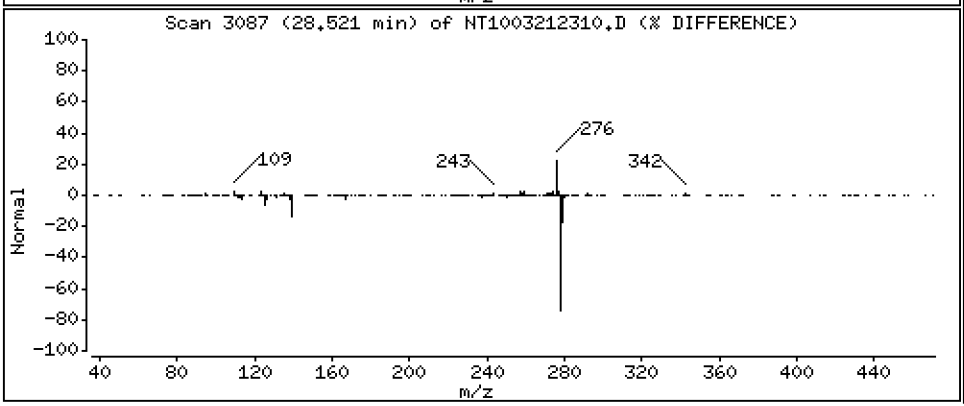












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212310.D

Date : 21-MAR-2023 22:56

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-01

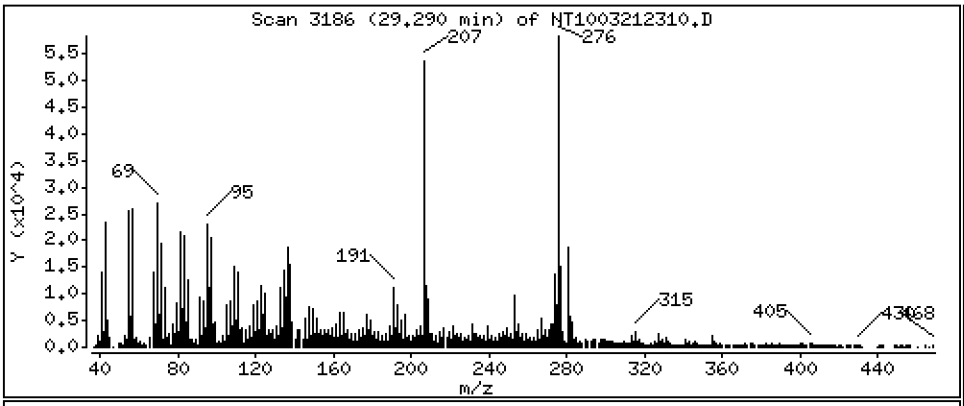
Operator: VTS

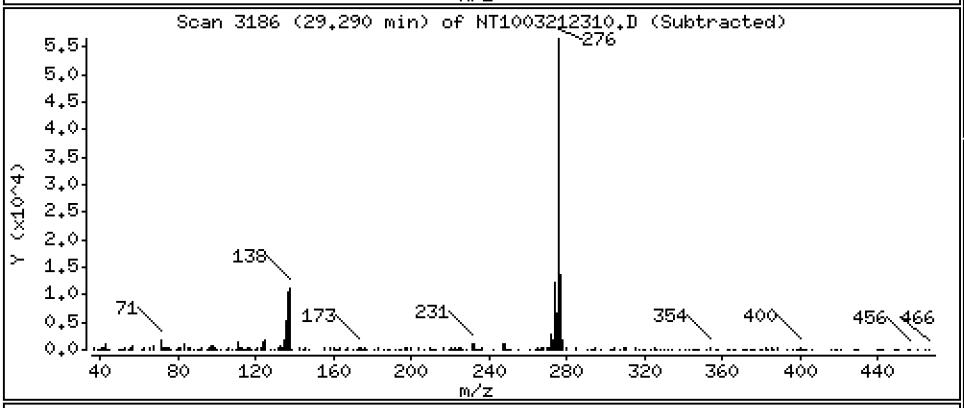
Column phase: ZB-5msi

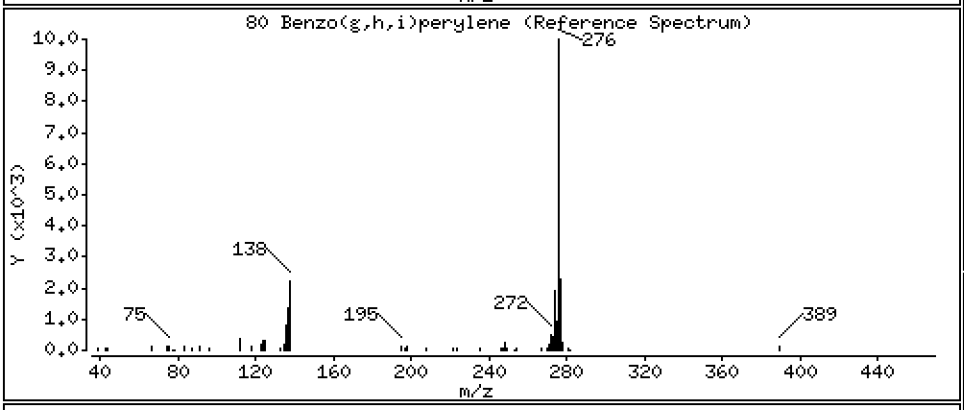
Column diameter: 0.25

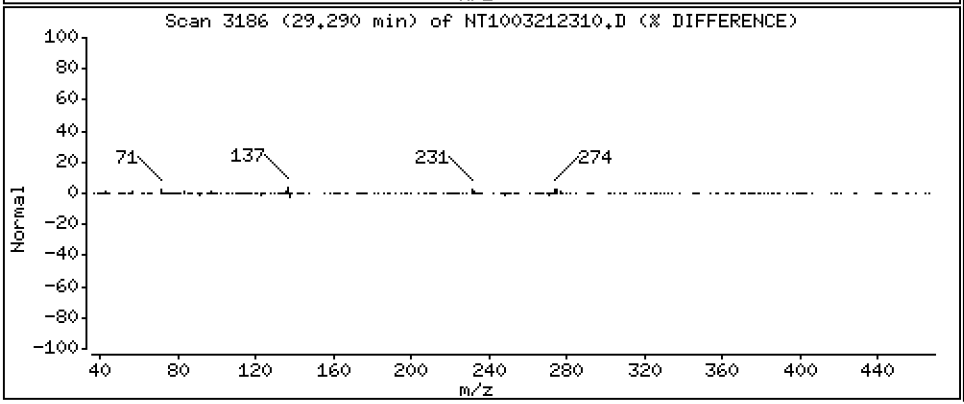
80 Benzo(g,h,i)perylene

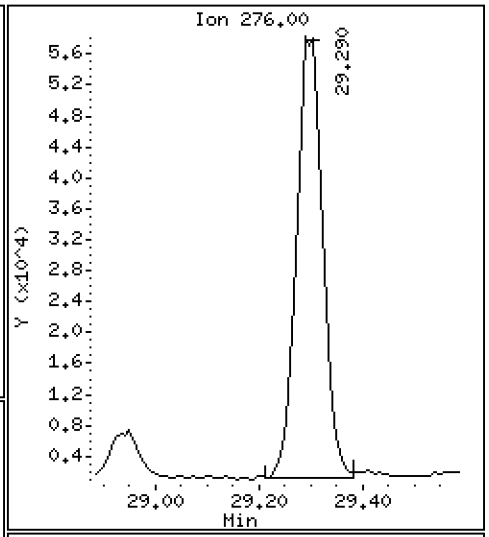
Concentration: 0.7505 ug/mL

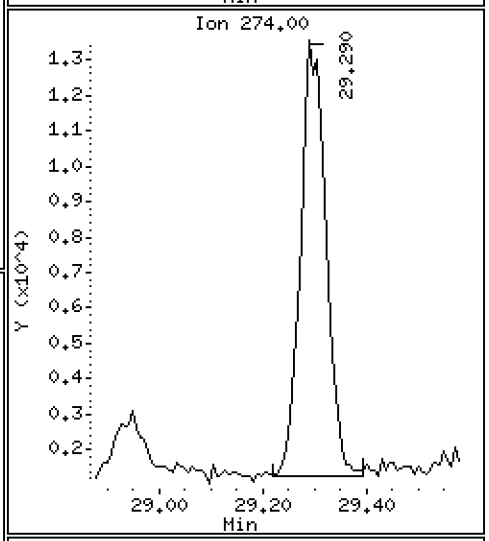


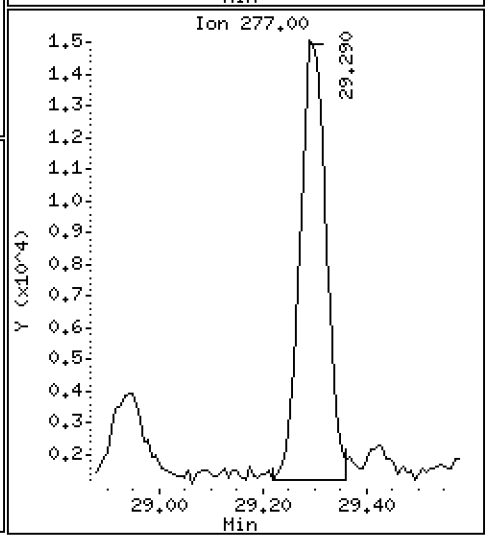












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212310.D

Date : 21-MAR-2023 22:56

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-01

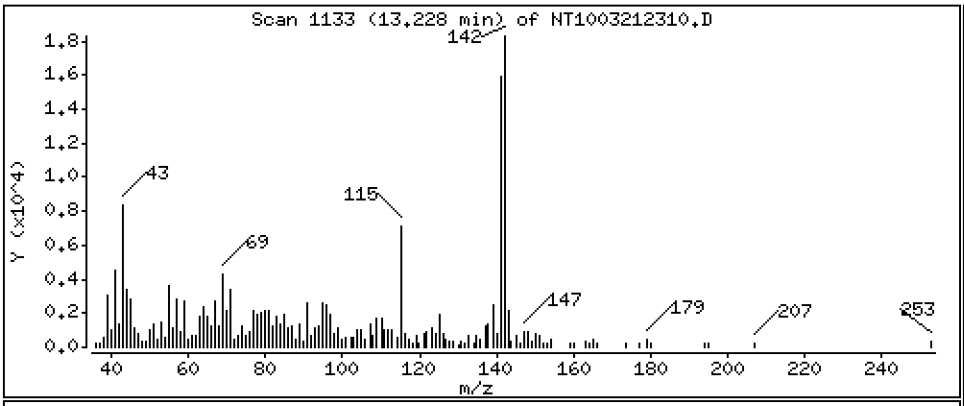
Operator: VTS

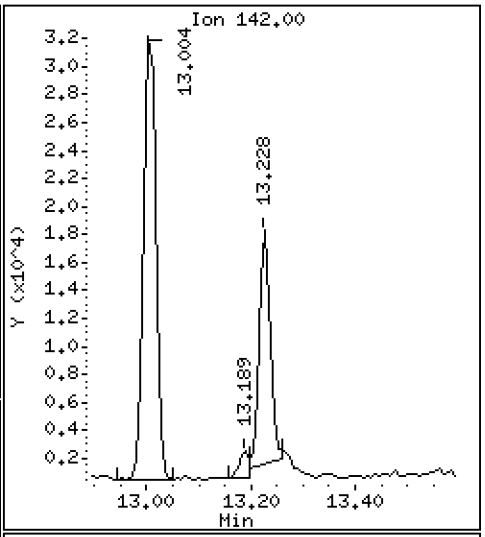
Column phase: ZB-5msi

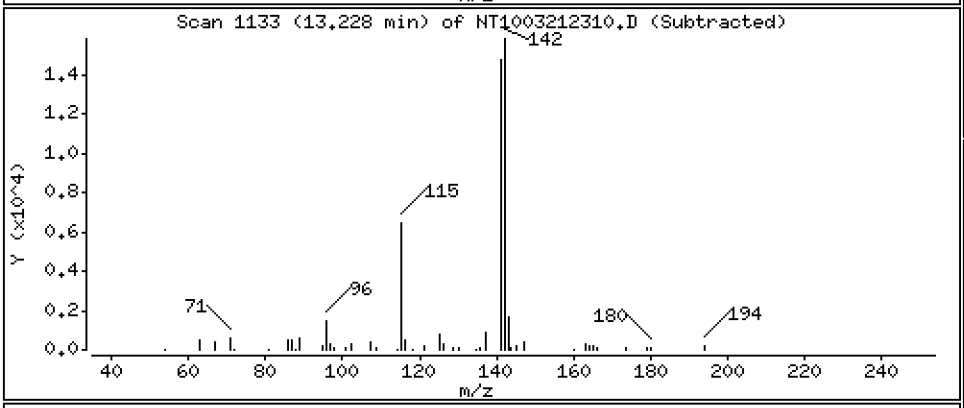
Column diameter: 0.25

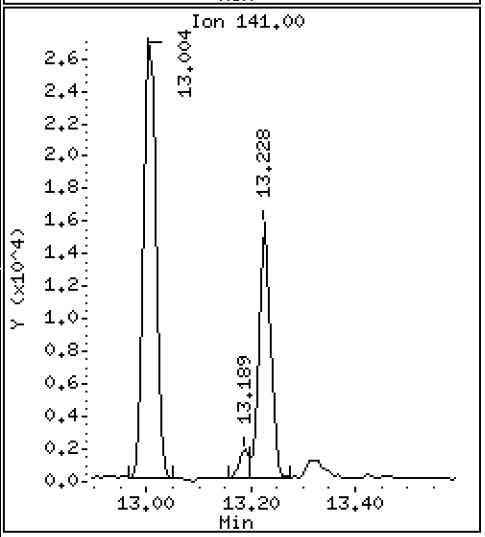
105 1-methylnaphthalene

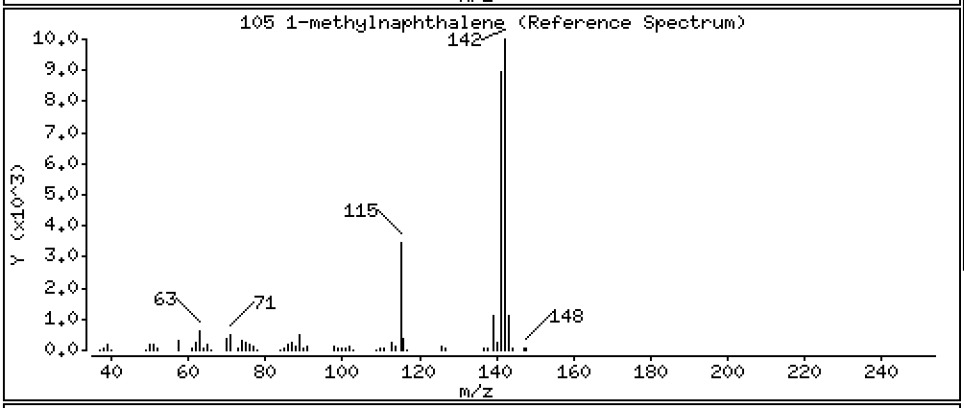
Concentration: 0.1898 ug/mL

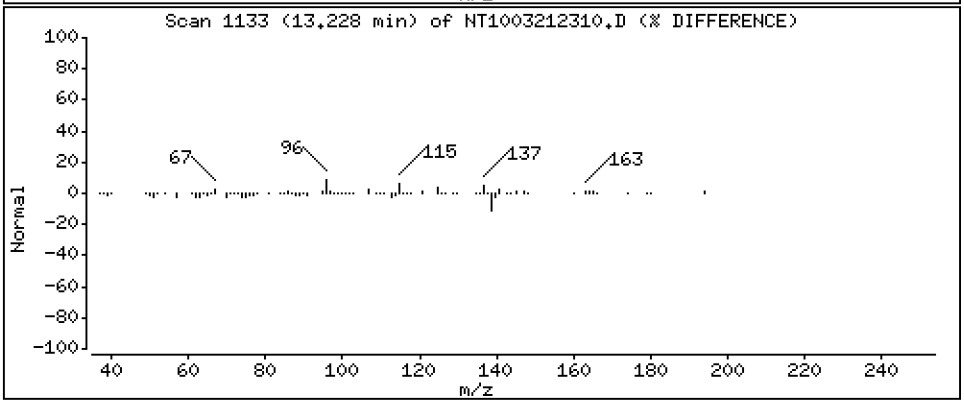












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212310.D

Date : 21-MAR-2023 22:56

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-01

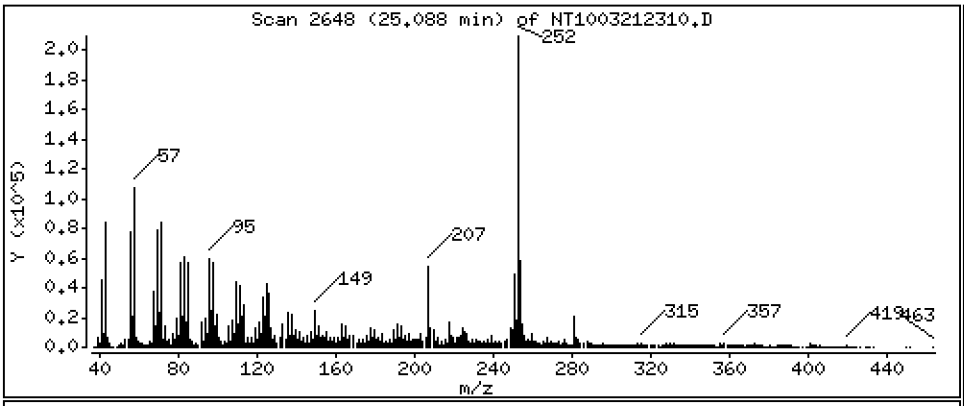
Operator: VTS

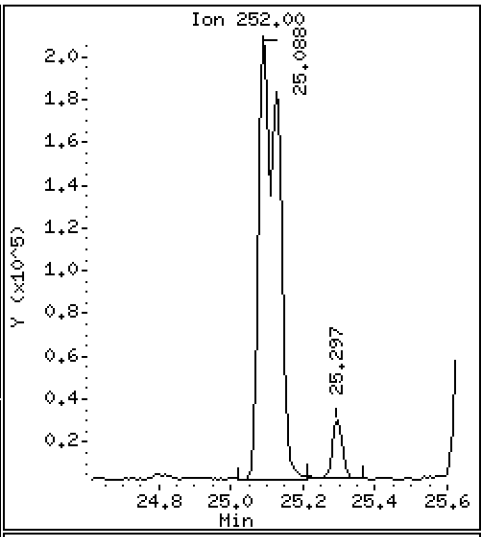
Column phase: ZB-5msi

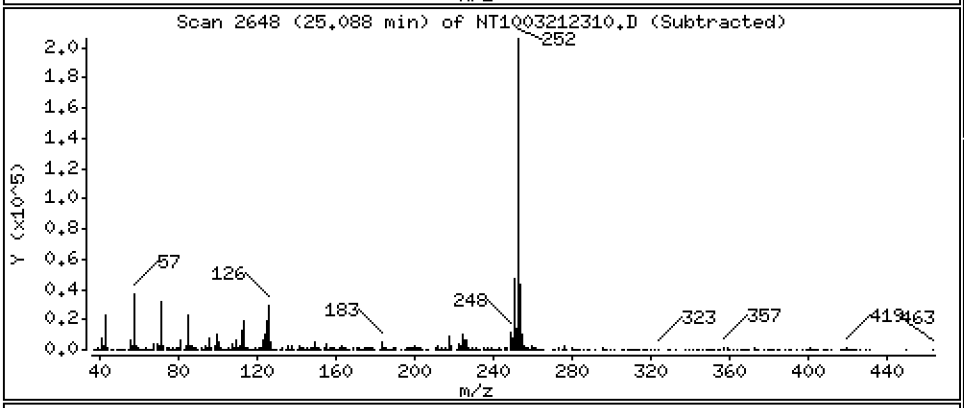
Column diameter: 0.25

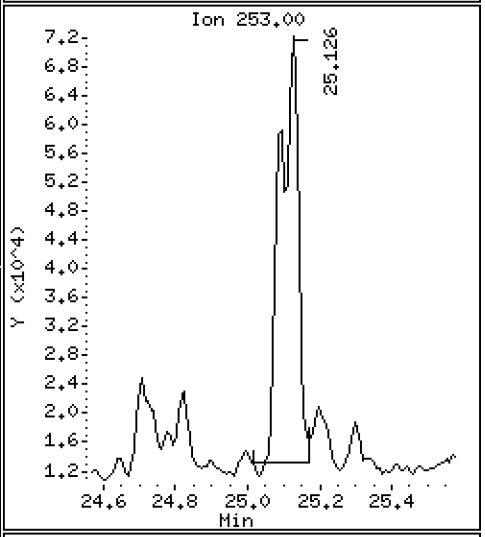
187 Total Benzofluoranthenes

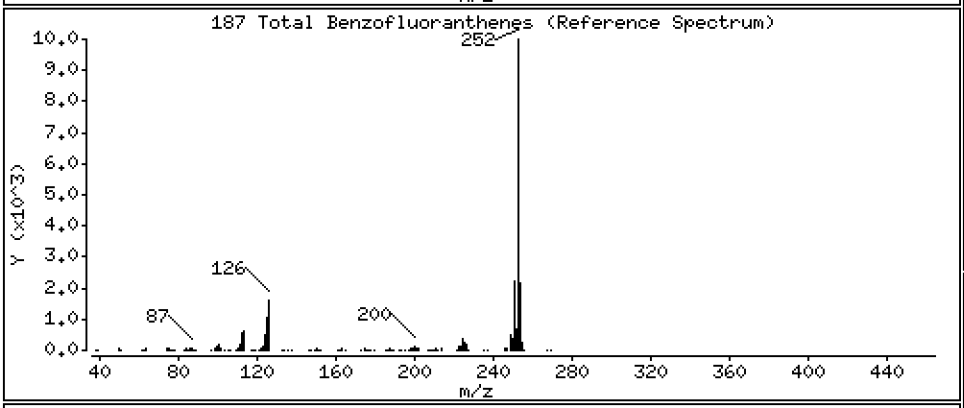
Concentration: 2.963 ug/mL

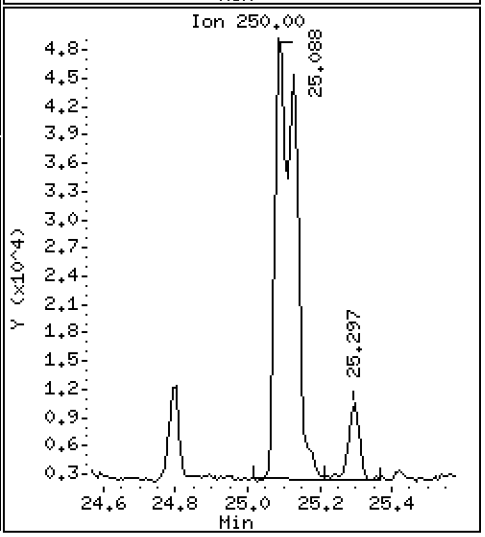


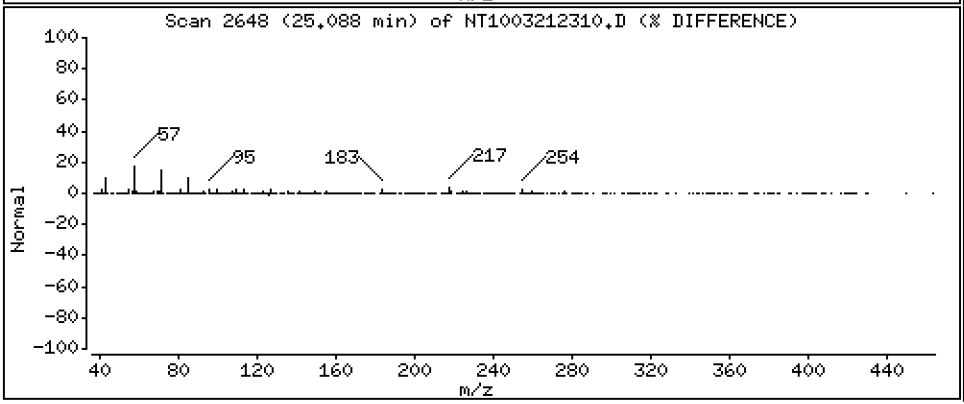












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230321.b\NT1003212310.D
Lab Smp Id: 23C0071-01
Inj Date : 21-MAR-2023 22:56
Operator : VTS Inst ID: nt10.i
Smp Info : 23C0071-01
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230321.b\ABN.m
Meth Date : 29-Mar-2023 06:54 van Quant Type: ISTD
Cal Date : 16-MAR-2023 00:22 Cal File: NT10031508.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)	
$	1 2-Fluorophenol	112	6.890	6.889	(0.729)	280480	4.54450	4.545	
$	2 Phenol-d5	99	8.466	8.473	(0.895)	381588	4.71296	4.713	
	3 Phenol	94	8.489	8.497	(0.898)	38390	0.45629	0.4563	
$	5 2-Chlorophenol-d4	132	8.736	8.744	(0.924)	356775	5.16026	5.160	
	4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.						
	6 2-Chlorophenol	128	Compound Not Detected.						
	7 1,3-Dichlorobenzene	146	Compound Not Detected.						
*	8 1,4-Dichlorobenzene-d4	152	9.100	9.108	(1.000)	204088	4.00000		(H)
	9 1,4-Dichlorobenzene	146	Compound Not Detected.						
$	10 1,2-Dichlorobenzene-d4	152	9.457	9.465	(1.000)	158865	3.19955	3.200	
	12 1,2-Dichlorobenzene	146	Compound Not Detected.						
	11 Benzyl alcohol	108	9.372	9.379	(0.991)	91589	2.31924	2.319	
	14 2,2'-oxybis(1-Chloropropane)	121	Compound Not Detected.						
	13 2-Methylphenol	108	9.597	9.604	(1.015)	3523	0.05744	0.05744	(M)
	17 Hexachloroethane	117	Compound Not Detected.						
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.						
	15 4-Methylphenol	108	9.869	9.876	(1.044)	10640	0.16465	0.1646	
$	18 Nitrobenzene-d5	82	10.194	10.202	(0.881)	254953	3.46793	3.468	
	19 Nitrobenzene	77	Compound Not Detected.						
	20 Isophorone	82	Compound Not Detected.						
	21 2-Nitrophenol	139	Compound Not Detected.						
	22 2,4-Dimethylphenol	107	Compound Not Detected.						
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.						
	24 Benzoic acid	105	11.037	11.113	(0.954)	112678	3.04216	3.042	
	25 2,4-Dichlorophenol	162	Compound Not Detected.						
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.						
*	27 Naphthalene-d8	136	11.572	11.587	(1.000)	728355	4.00000		
	28 Naphthalene	128	11.619	11.626	(1.004)	218619	1.13302	1.133	
	29 4-Chloroaniline	127	Compound Not Detected.						
	30 Hexachlorobutadiene	225	Compound Not Detected.						
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.						
	32 2-Methylnaphthalene	142	13.003	13.018	(1.124)	49288	0.35396	0.3540	
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.						

			QUANT SIG					CONCENTRATIONS ON-COLUMN	FINAL
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug/mL)
	34	2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35	2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36	2-Fluorobiphenyl	172	13.785	13.800	(0.908)	587465	3.61354	3.614
	37	2-Chloronaphthalene	162	Compound Not Detected.					
	38	2-Nitroaniline	65	Compound Not Detected.					
	39	Dimethylphthalate	163	Compound Not Detected.					
	40	Acenaphthylene	152	14.861	14.876	(0.979)	25958	0.12655	0.1265(M)
	41	2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42	Acenaphthene-d10	164	15.178	15.185	(1.000)	410982	4.00000	
	43	3-Nitroaniline	138	Compound Not Detected.					
	44	Acenaphthene	153	15.240	15.247	(1.004)	26377	0.20815	0.2082
	45	2,4-Dinitrophenol	184	Compound Not Detected.					
	46	Dibenzofuran	168	15.556	15.572	(1.025)	35148	0.18809	0.1881
	47	4-Nitrophenol	109	Compound Not Detected.					
	48	2,4-Dinitrotoluene	165	Compound Not Detected.					
	50	Diethylphthalate	149	16.129	16.144	(1.063)	110073	0.84029	0.8403
	49	Fluorene	166	16.268	16.283	(1.072)	32539	0.22133	0.2213
	51	4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52	4-Nitroaniline	138	Compound Not Detected.					
	53	4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54	N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55	2,4,6-Tribromophenol	330	16.807	16.815	(1.107)	139012	7.25796	7.258
	56	4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57	Hexachlorobenzene	284	Compound Not Detected.					
	58	Pentachlorophenol	266	17.936	17.943	(0.986)	2893	0.10751	0.1075
*	59	Phenanthrene-d10	188	18.199	18.206	(1.000)	775737	4.00000	
	60	Phenanthrene	178	18.245	18.252	(1.003)	209620	0.99099	0.9910
	61	Anthracene	178	18.338	18.338	(1.008)	176059	0.86768	0.8677
	62	Carbazole	167	18.663	18.670	(1.026)	33726	0.18549	0.1855
	63	Di-n-butylphthalate	149	19.467	19.475	(1.070)	16377	0.06698	0.06698
	64	Fluoranthene	202	20.643	20.620	(0.888)	575208	2.02768	2.028
	65	Pyrene	202	21.054	21.046	(0.906)	578689	1.98860	1.989
$	66	Terphenyl-d14	244	21.340	21.332	(0.918)	769933	3.52312	3.523
	67	Butylbenzylphthalate	149	22.261	22.261	(0.958)	16176	0.15832	0.1583
	68	Benzo(a)anthracene	228	23.206	23.198	(0.999)	274332	1.10089	1.101
*	69	Chrysene-d12	240	23.237	23.229	(1.000)	705986	4.00000	
	70	3,3'-Dichlorobenzidine	252	Compound Not Detected.					
	71	Chrysene	228	23.283	23.275	(1.002)	468101	1.92274	1.923
	72	bis(2-Ethylhexyl)phthalate	149	23.291	23.283	(0.959)	222897	1.29078	1.291
*	134	Di-n-octylphthalate-d4	153	24.282	24.266	(1.000)	1179850	4.00000	
	73	Di-n-octylphthalate	149	24.297	24.282	(1.001)	17843	0.05779	0.05779
	74	Benzo(b)fluoranthene	252	25.087	25.071	(0.970)	440738	1.61749	1.617
	75	Benzo(k)fluoranthene	252	25.126	25.118	(0.972)	402756	1.45566	1.456
	76	Benzo(a)pyrene	252	25.745	25.722	(0.996)	275838	1.13227	1.132
*	77	Perylene-d12	264	25.861	25.830	(1.000)	840603	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	28.513	28.466	(1.103)	206112	0.66501	0.6650
	79	Dibenzo(a,h)anthracene	278	28.521	28.482	(1.103)	62414	0.24256	0.2426
	80	Benzo(g,h,i)perylene	276	29.290	29.235	(1.133)	201299	0.75049	0.7505
	90	N-Nitrosodimethylamine	74	Compound Not Detected.					
	91	Aniline	93	Compound Not Detected.					
	93	Benzidine	184	Compound Not Detected.					
	103	Pyridine	79	Compound Not Detected.					
	105	1-methylnaphthalene	142	13.227	13.243	(1.143)	24213	0.18979	0.1898
	111	Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.087	25.118	(0.970)	779464	2.96275	2.963
120 2,3,4,6-Tetrachlorophenol	232	Compound Not Detected.					

QC Flag Legend

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

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1003212310.D
Lab Smp Id: 23C0071-01
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230321.b\ABN.m
Misc Info:

Calibration Date: 21-MAR-2023
Calibration Time: 17:46
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	138414	69207	276828	204088	47.45
27 Naphthalene-d8	511348	255674	1022696	728355	42.44
42 Acenaphthene-d10	293241	146621	586482	410982	40.15
59 Phenanthrene-d10	535484	267742	1070968	775737	44.87
69 Chrysene-d12	464733	232367	929466	705986	51.91
134 Di-n-octylphthala	716354	358177	1432708	1179850	64.70
77 Perylene-d12	509704	254852	1019408	840603	64.92

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.11	8.61	9.61	9.10	-0.08
27 Naphthalene-d8	11.59	11.09	12.09	11.57	-0.13
42 Acenaphthene-d10	15.19	14.69	15.69	15.18	-0.05
59 Phenanthrene-d10	18.21	17.71	18.71	18.20	-0.04
69 Chrysene-d12	23.23	22.73	23.73	23.24	0.03
134 Di-n-octylphthala	24.27	23.77	24.77	24.28	0.07
77 Perylene-d12	25.83	25.33	26.33	25.86	0.12

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

REVIEW SUMMARY FOR FILE - NT1003212310.D

Lab ID: 23C0071-01
nt10.i, 20230321.b\ABN.m,   21-MAR-2023 22:56

RT	CO-ELUTION COMPOUNDS
NO CO-ELUTIONS	

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.954	0.959	-0.0053	Benzoic acid

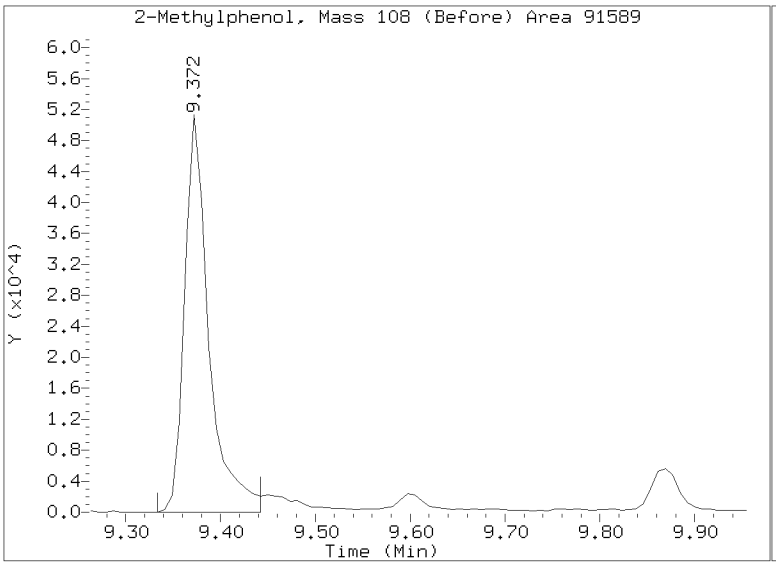
RRT check based on Ccal File: NT1003212302.D

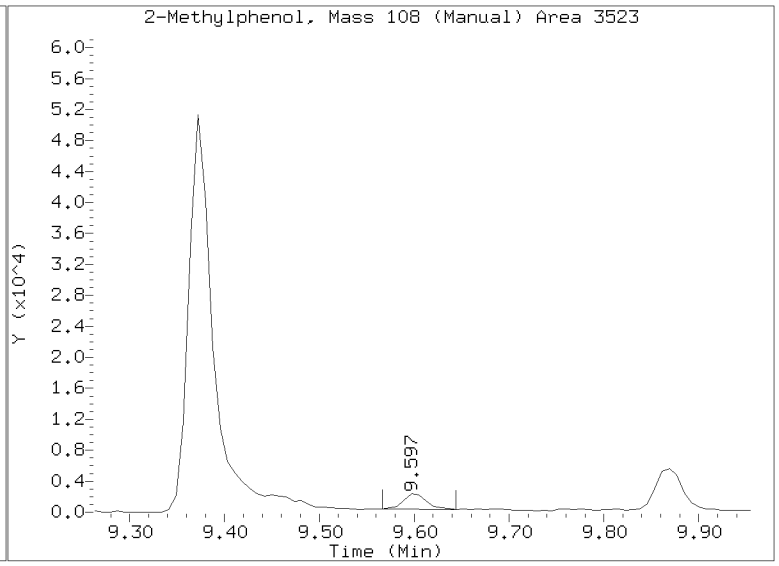
On Column LOD for nt10.i, 20230321.b\ABN.m, ICAL.sub = 0.0000

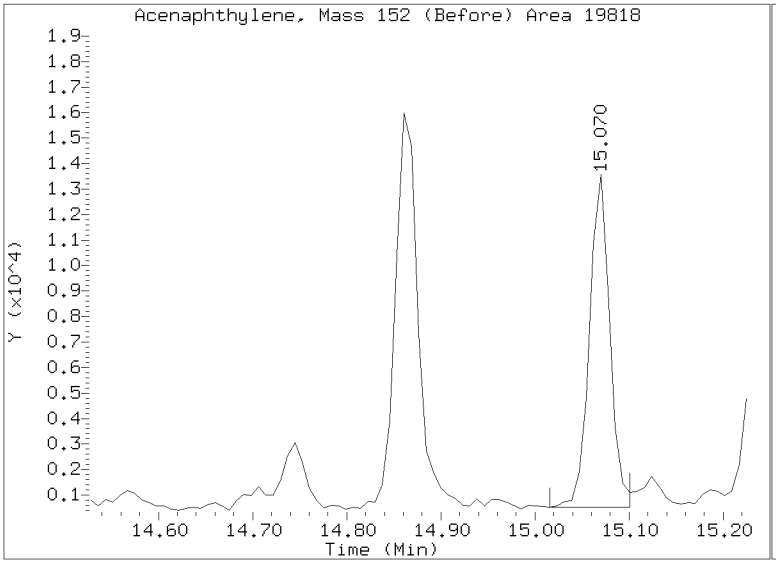
* Only compounds listed in the work order have been verified by the analyst *

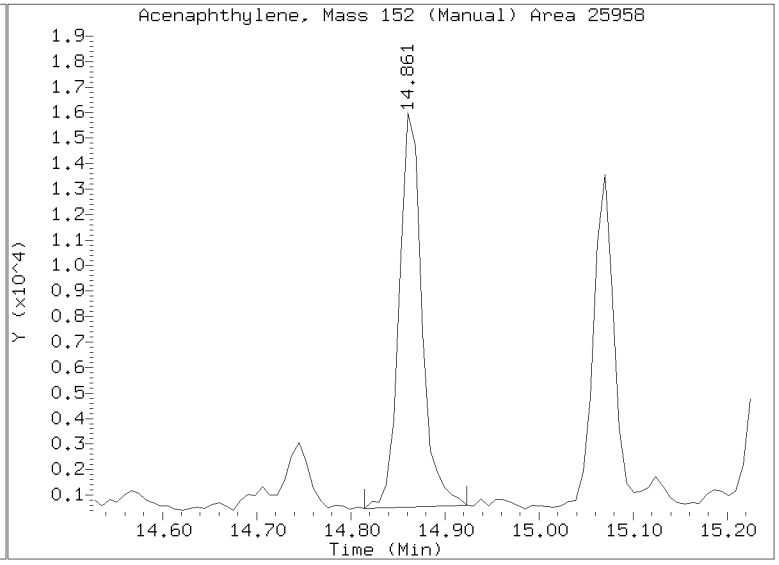
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230321.b/NT1003212310.D
Injection Date: 21-MAR-2023 22:56
Lab ID:23C0071-01 Client ID:
Report Date: 03/29/2023 08:02









Analytical Resources, LLC
Analytical Chemists and Consultants

LDW23-SS1037

Form I

ORGANIC ANALYSIS DATA SHEET

EPA 8270E

Semivolatiles (20ug/kg - 0.2ug/L SepF)

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0071-02 A	SDG:	23C0071
Sampled:	03/02/23 09:56	Prepared:	03/07/23 10:21	File ID:	NT1003212311.D
% Solids:	50.76	Preparation:	EPA 3546 (Microwave)	Analyzed:	03/21/23 23:35
Batch:	BLC0109	Sequence:	SLC0451	Initial/Final:	19.97 g Wet / 1 mL
Instrument:	NT10	Column:	ZB-5MSi	Calibration:	GC00046
Cleanups:	GPC				

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
108-95-2	Phenol	1	17.1	J	4.3	19.7
106-44-5	4-Methylphenol	1	17.3	J	7.3	19.7
91-20-3	Naphthalene	1	23.5		4.2	19.7
91-57-6	2-Methylnaphthalene	1	10.1	J	4.4	19.7
208-96-8	Acenaphthylene	1	6.7	J	6.2	19.7
131-11-3	Dimethylphthalate	1	19.7	U	4.3	19.7
83-32-9	Acenaphthene	1	14.9	J	5.1	19.7
132-64-9	Dibenzofuran	1	19.7	U	13.9	19.7
86-73-7	Fluorene	1	19.7	U	14.4	19.7
85-01-8	Phenanthrene	1	46.2		8.6	19.7
120-12-7	Anthracene	1	25.1		7.1	19.7
206-44-0	Fluoranthene	1	109		6.0	19.7
129-00-0	Pyrene	1	115		5.6	19.7
85-68-7	Butylbenzylphthalate	1	18.2	J	9.3	19.7
56-55-3	Benzo(a)anthracene	1	58.6		5.9	19.7
218-01-9	Chrysene	1	81.9		6.0	19.7
117-81-7	bis(2-Ethylhexyl)phthalate	1	98.3		5.4	49.3
	Benzofluoranthenes, Total	1	171		9.9	39.5
50-32-8	Benzo(a)pyrene	1	65.2		4.2	19.7
193-39-5	Indeno(1,2,3-cd)pyrene	1	36.5		14.5	19.7
53-70-3	Dibenzo(a,h)anthracene	1	19.7	U	17.0	19.7
191-24-2	Benzo(g,h,i)perylene	1	43.9		13.4	19.7

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorophenol	739.88	509	68.8	27 - 120	
Phenol-d5	739.88	531	71.7	29 - 120	
2-Chlorophenol-d4	739.88	560	75.7	31 - 120	
1,2-Dichlorobenzene-d4	493.25	337	68.3	32 - 120	
Nitrobenzene-d5	493.25	350	70.9	30 - 120	
2-Fluorobiphenyl	493.25	386	78.3	35 - 120	

Analytical Resources, LLC
Analytical Chemists and Consultants

LDW23-SS1037

Form I

ORGANIC ANALYSIS DATA SHEET

EPA 8270E

Semivolatiles (20ug/kg - 0.2ug/L SepF)

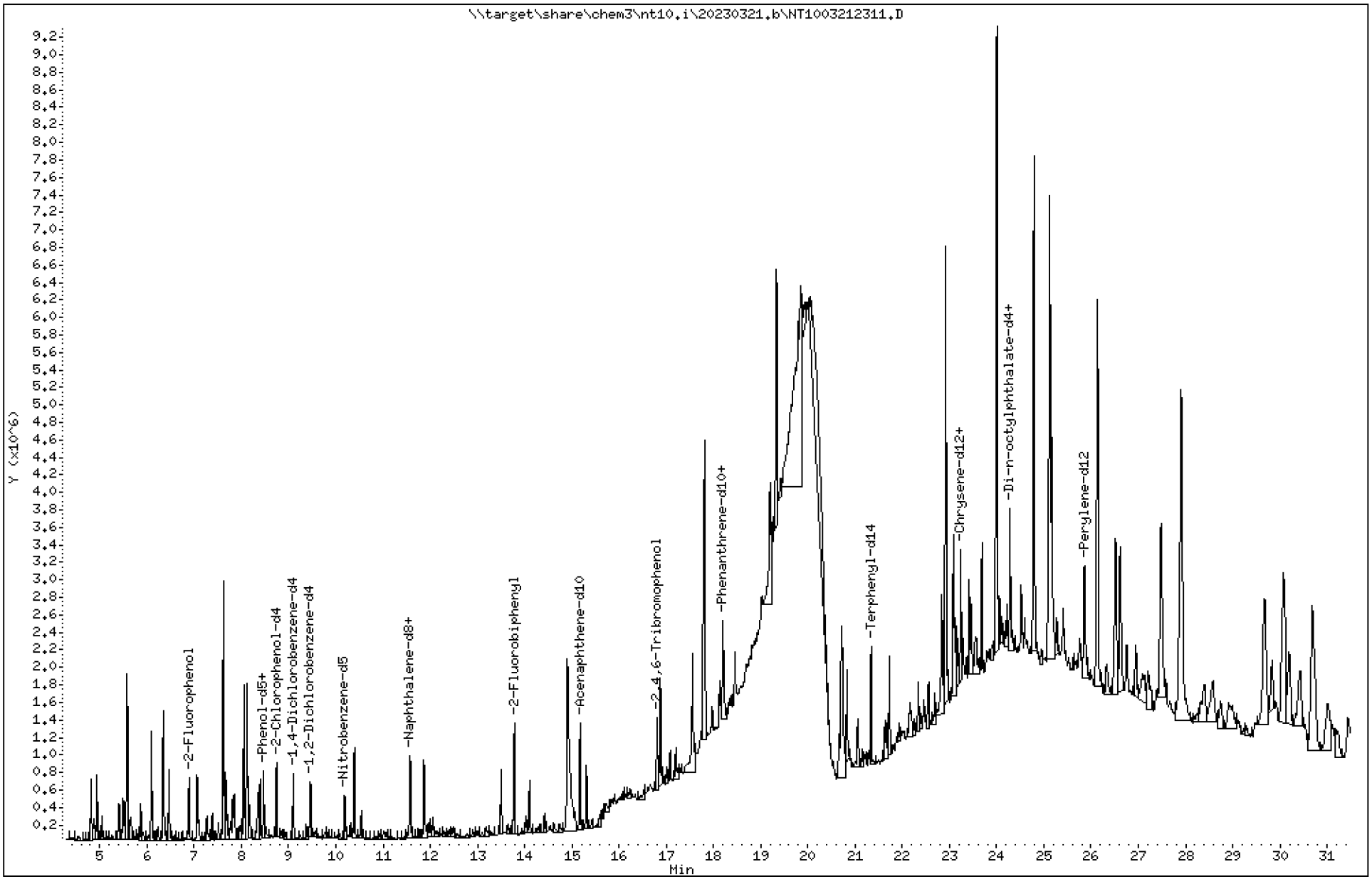
Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0071-02 A	SDG:	23C0071
Sampled:	03/02/23 09:56	Prepared:	03/07/23 10:21	File ID:	NT1003212311.D
% Solids:	50.76	Preparation:	EPA 3546 (Microwave)	Analyzed:	03/21/23 23:35
Batch:	BLC0109	Sequence:	SLC0451	Initial/Final:	19.97 g Wet / 1 mL
Instrument:	NT10	Column:	ZB-5MSi	Calibration:	GC00046
Cleanups:	GPC				

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2,4,6-Tribromophenol	739.88	794	107	24 - 134	
p-Terphenyl-d14	493.25	381	77.2	37 - 120	

Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212311.D
Date : 21-MAR-2023 23:35
Client ID:
Sample Info: 23C0071-02

Instrument: nt10.i
Operator: VTS
Column diameter: 0.25

Column phase: ZB-5msi



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Date : 21-MAR-2023 23:35

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-02

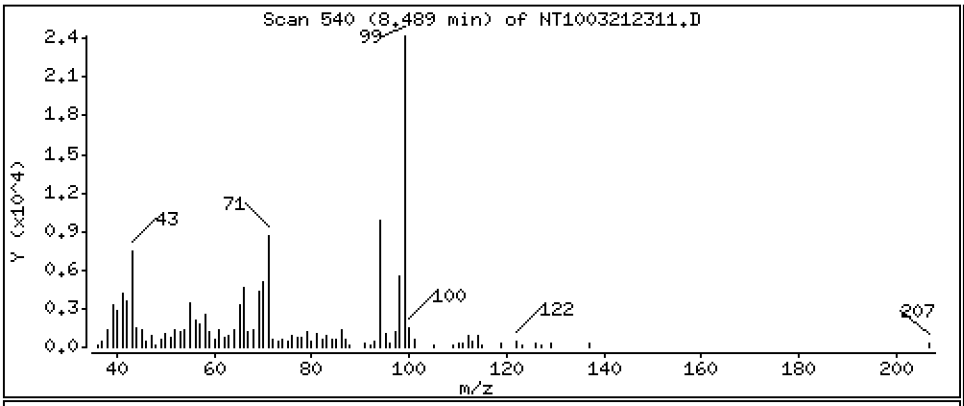
Operator: VTS

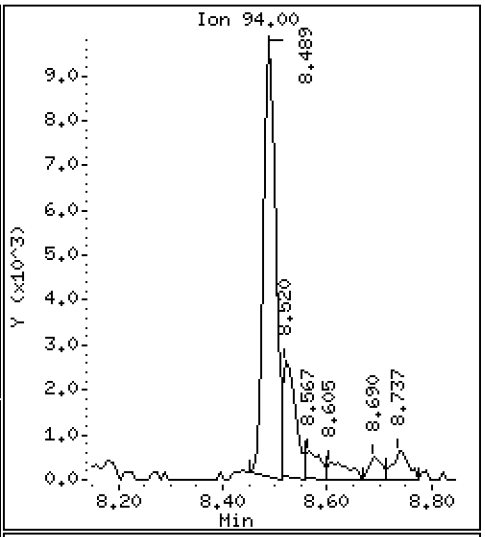
Column phase: ZB-5msi

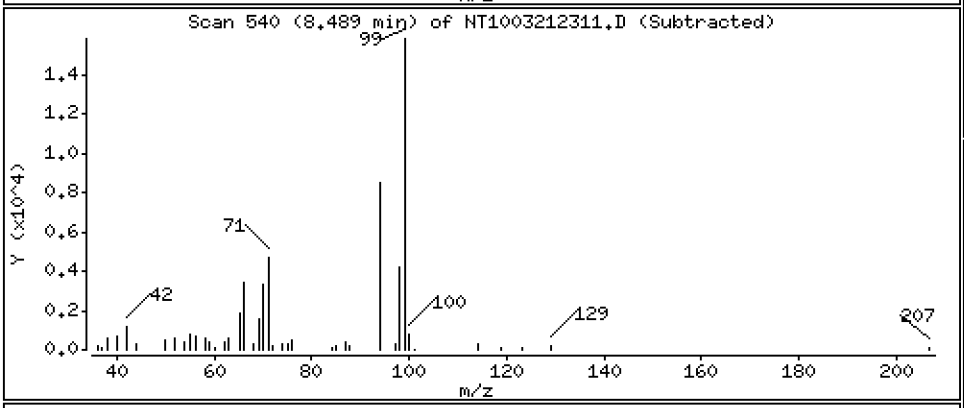
Column diameter: 0.25

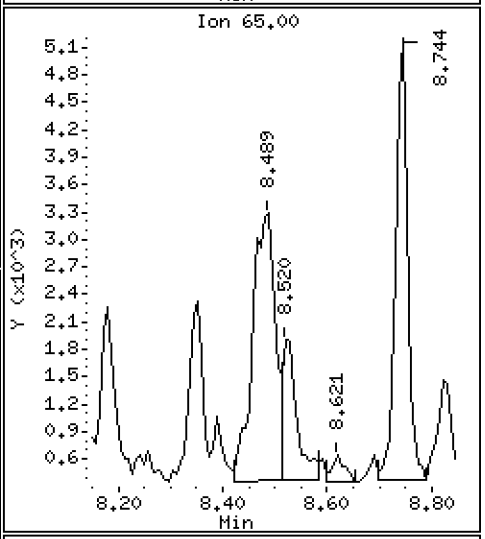
3 Phenol

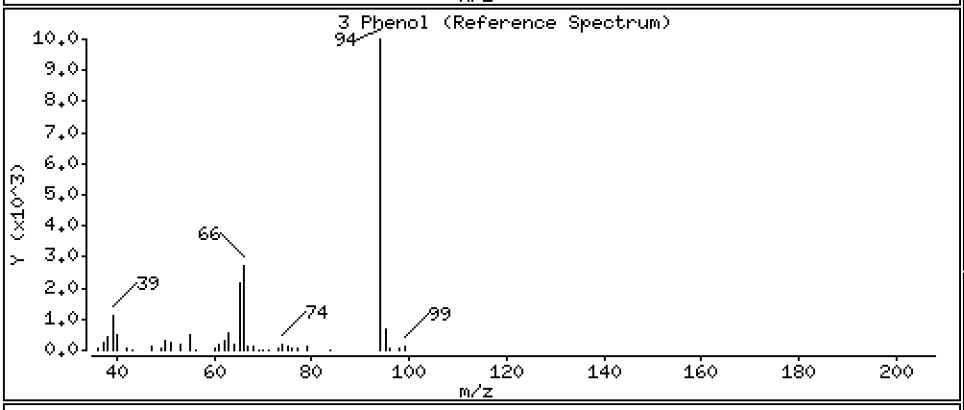
Concentration: 0.1737 ug/mL

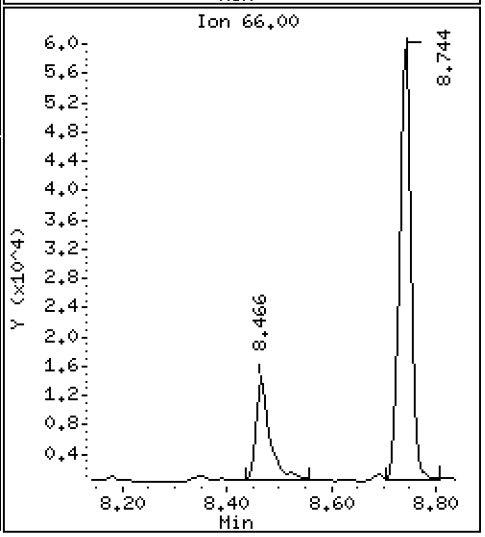


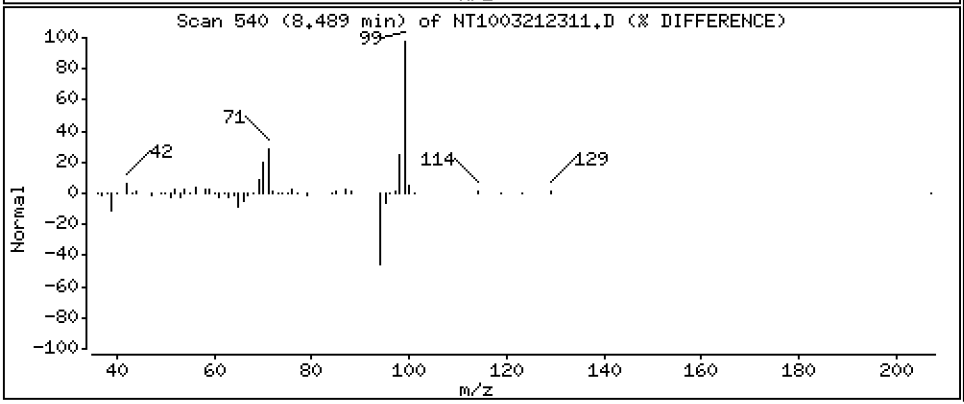












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Date : 21-MAR-2023 23:35

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-02

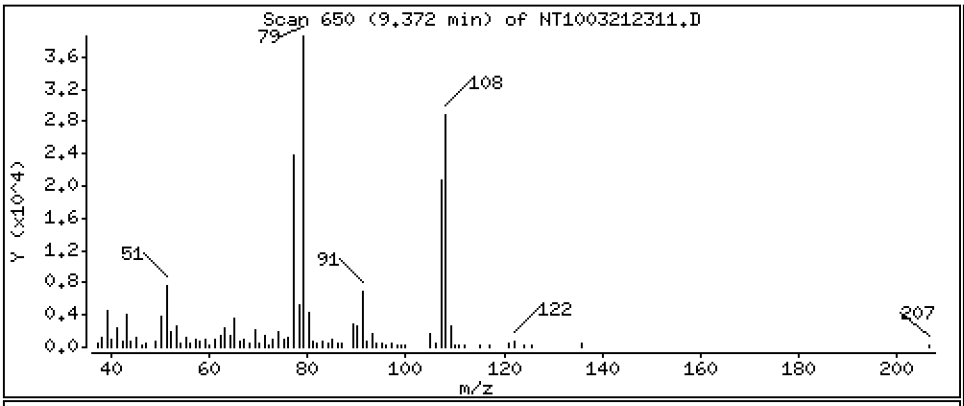
Operator: VTS

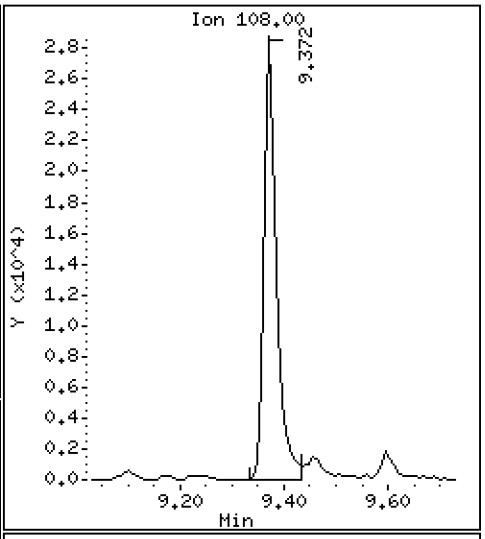
Column phase: ZB-5msi

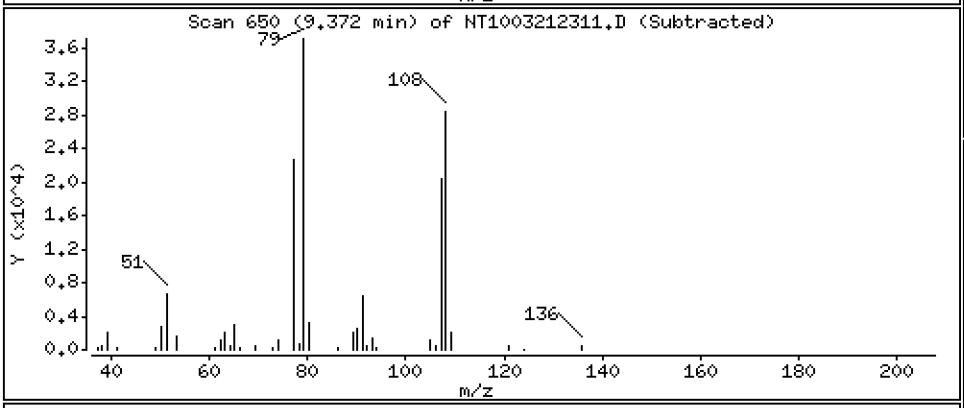
Column diameter: 0.25

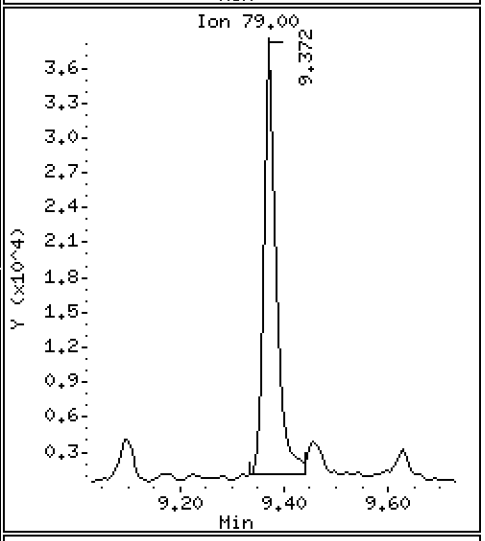
11 Benzyl alcohol

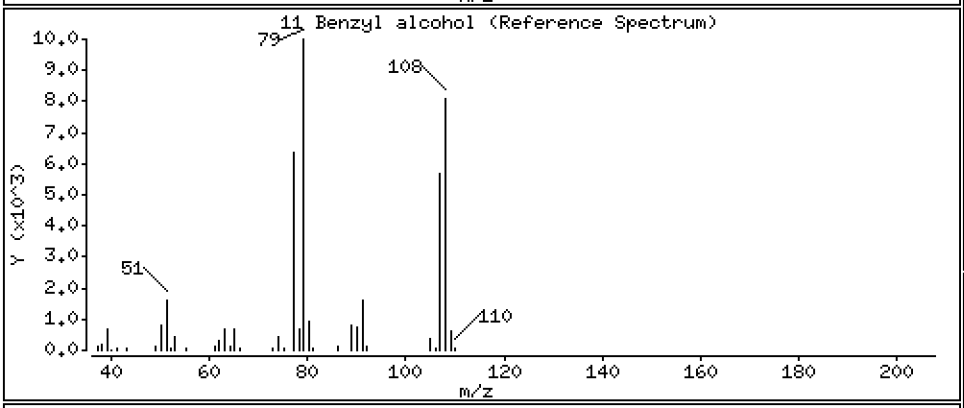
Concentration: 1.154 ug/mL

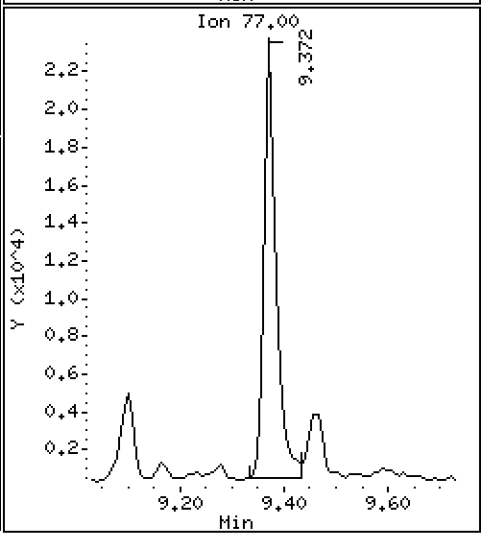


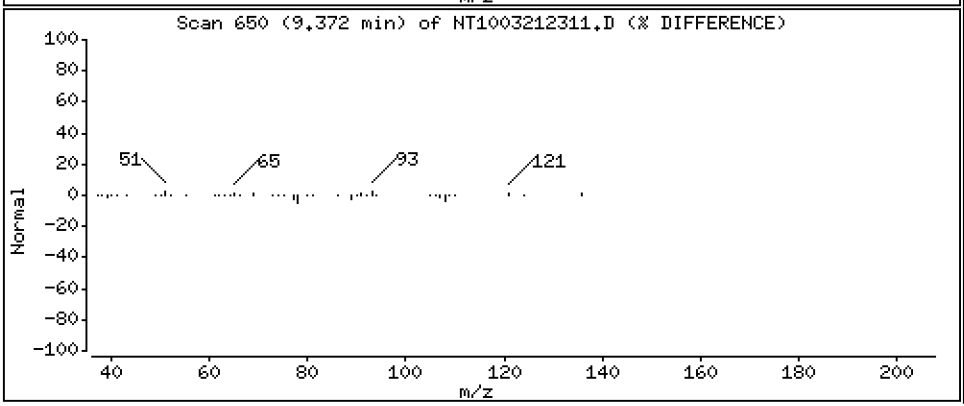












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Date : 21-MAR-2023 23:35

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-02

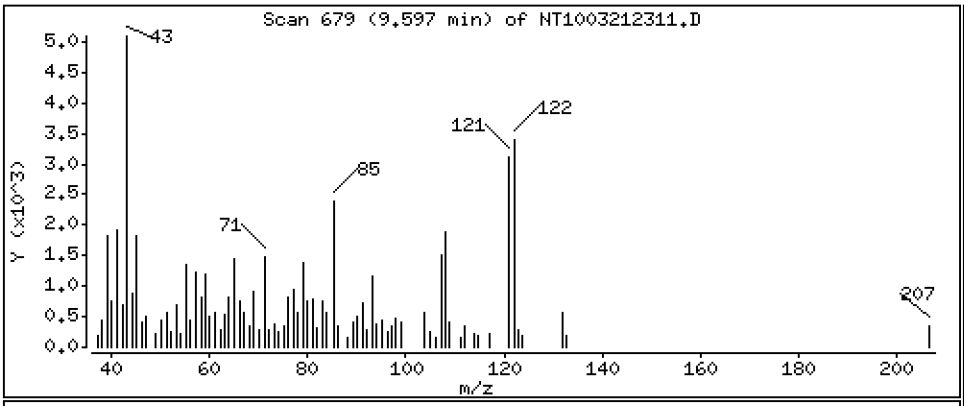
Operator: VTS

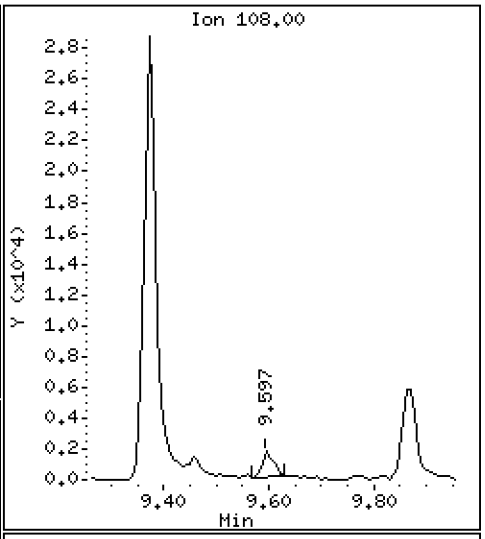
Column phase: ZB-5msi

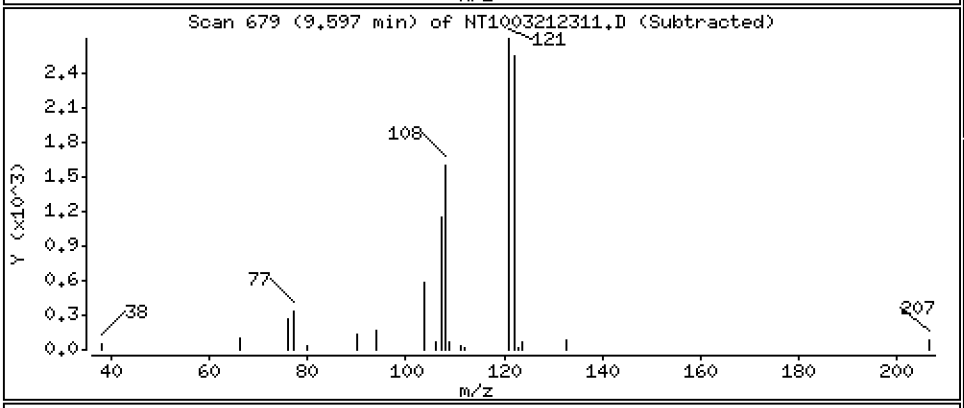
Column diameter: 0.25

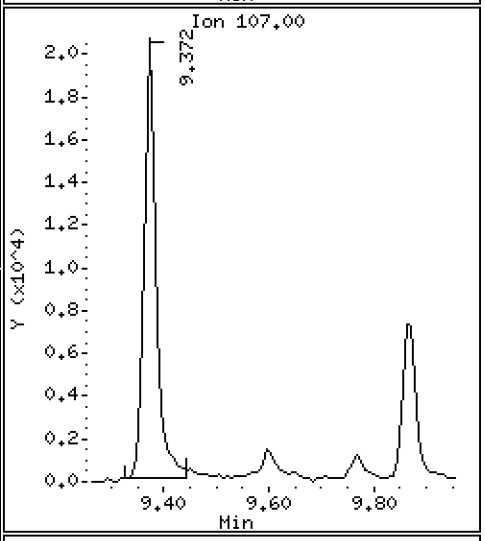
13 2-Methylphenol

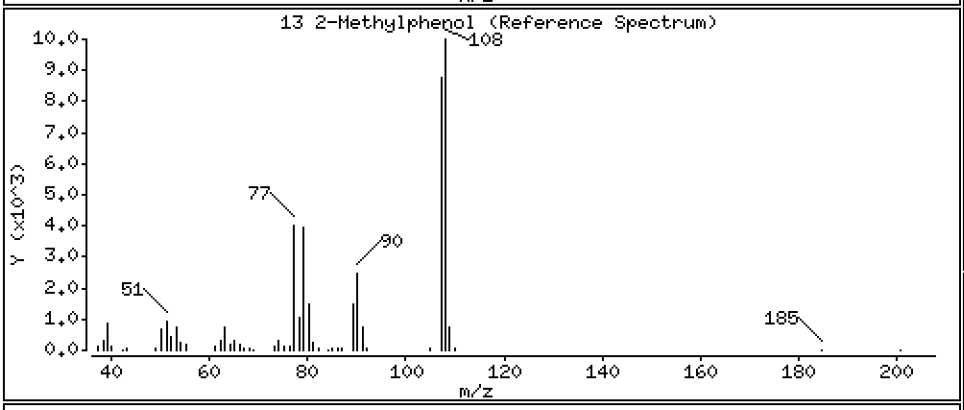
Concentration: 0.03658 ug/mL

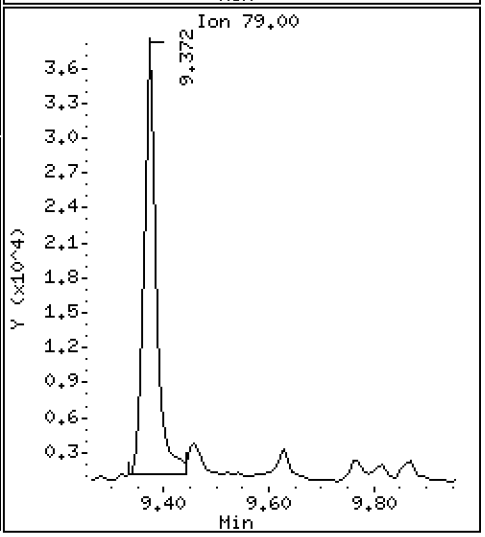


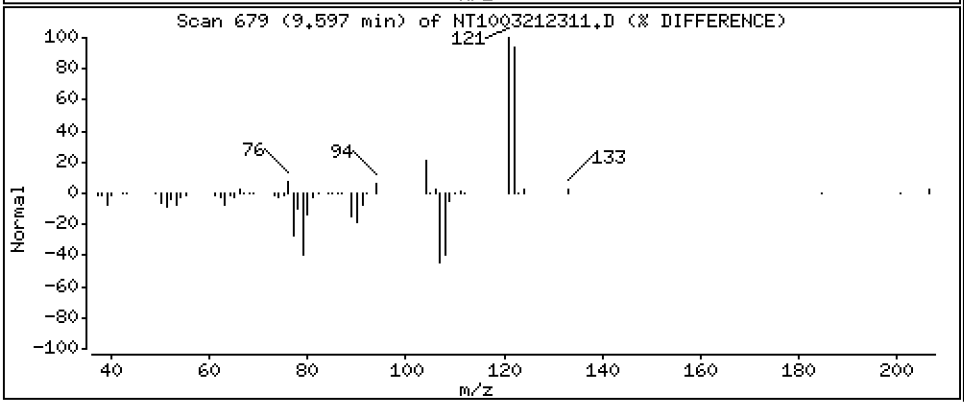












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Date : 21-MAR-2023 23:35

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-02

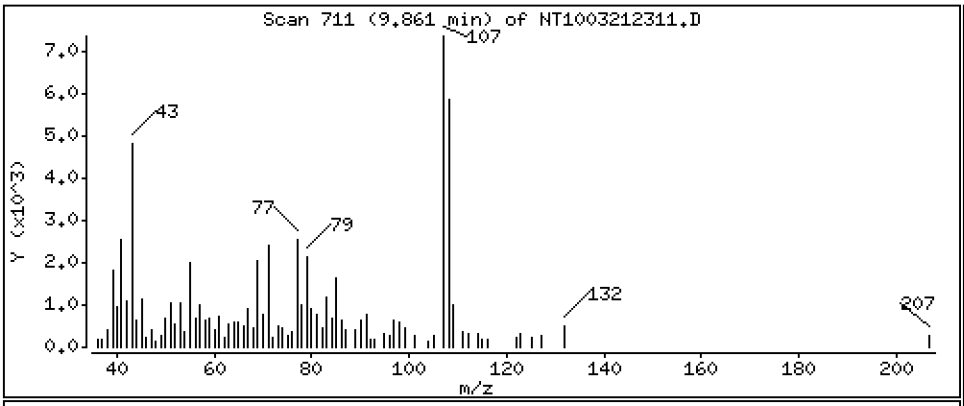
Operator: VTS

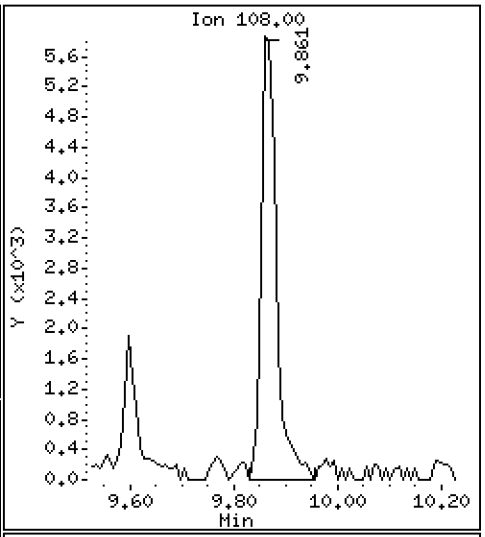
Column phase: ZB-5msi

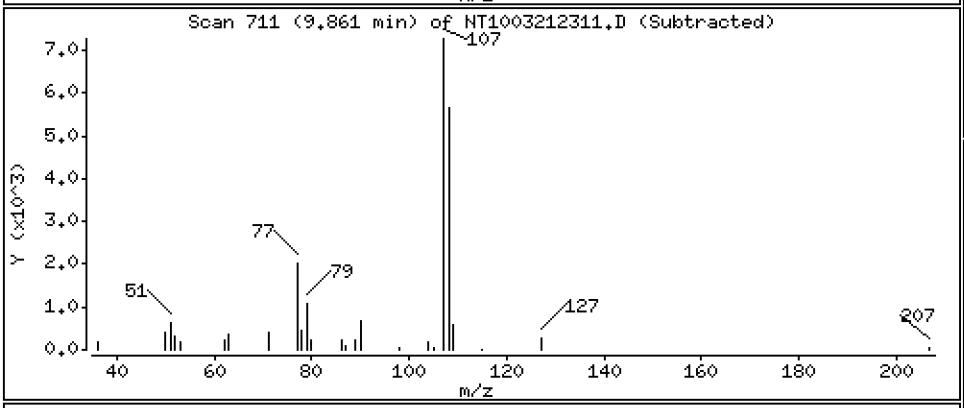
Column diameter: 0.25

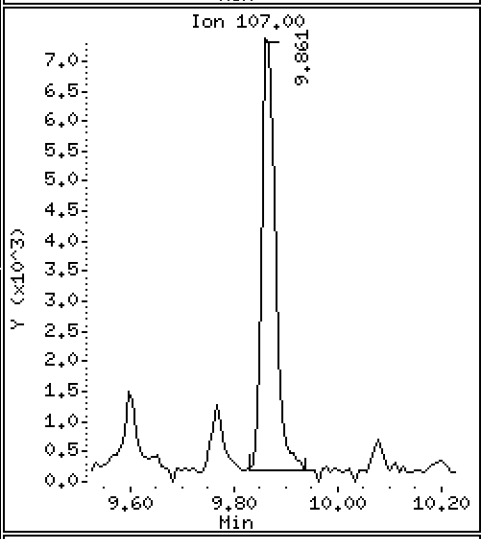
15 4-Methylphenol

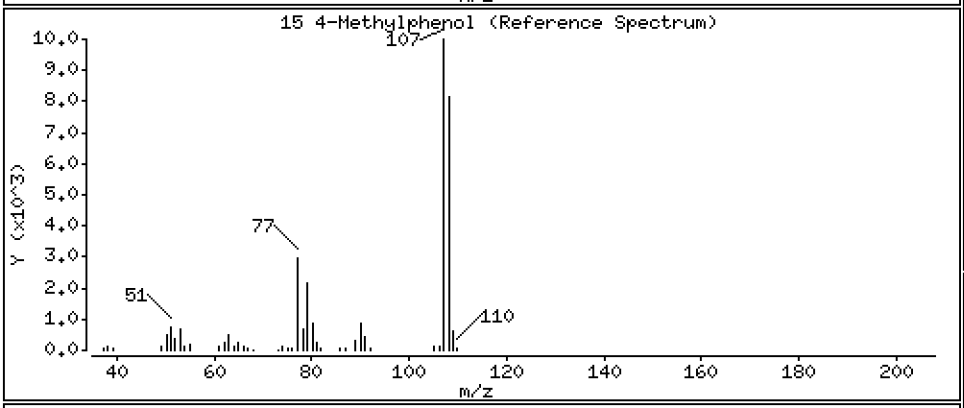
Concentration: 0.1749 ug/mL

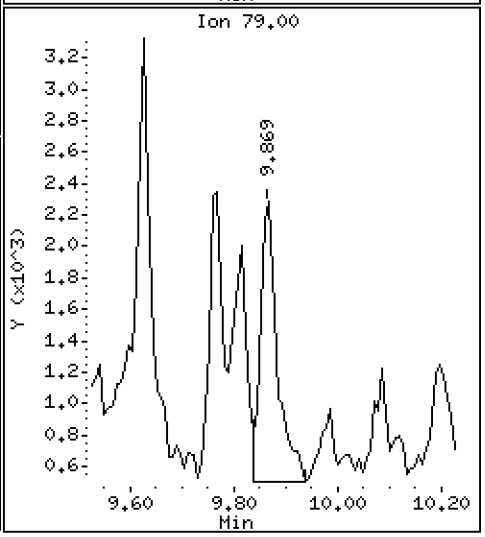


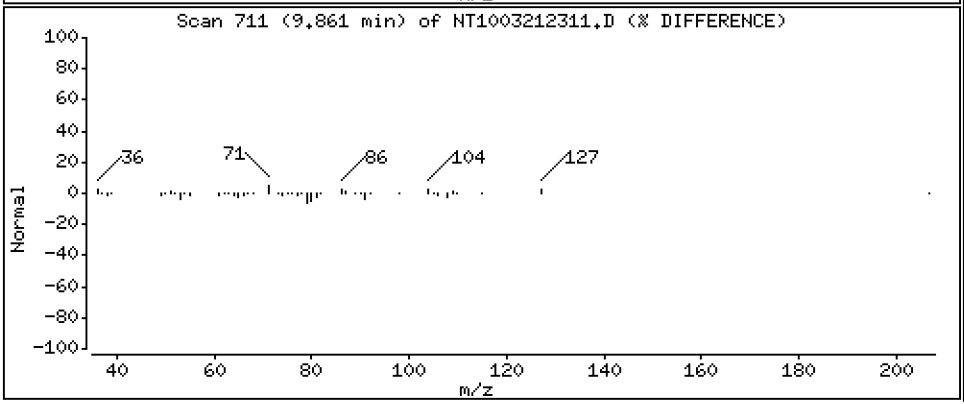












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212311.D

Date : 21-MAR-2023 23:35

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-02

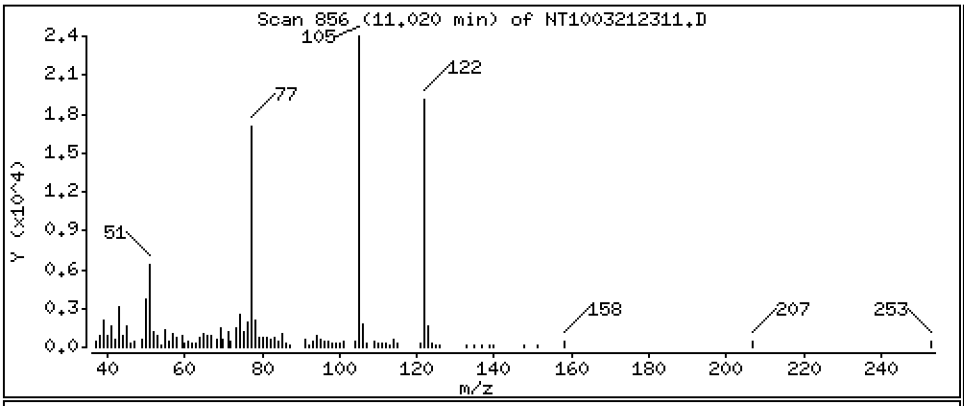
Operator: VTS

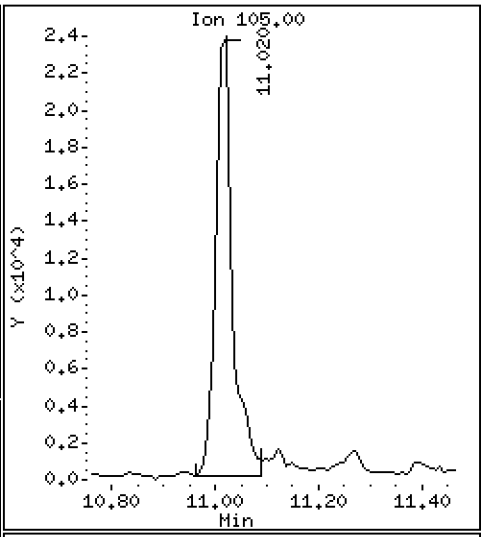
Column phase: ZB-5msi

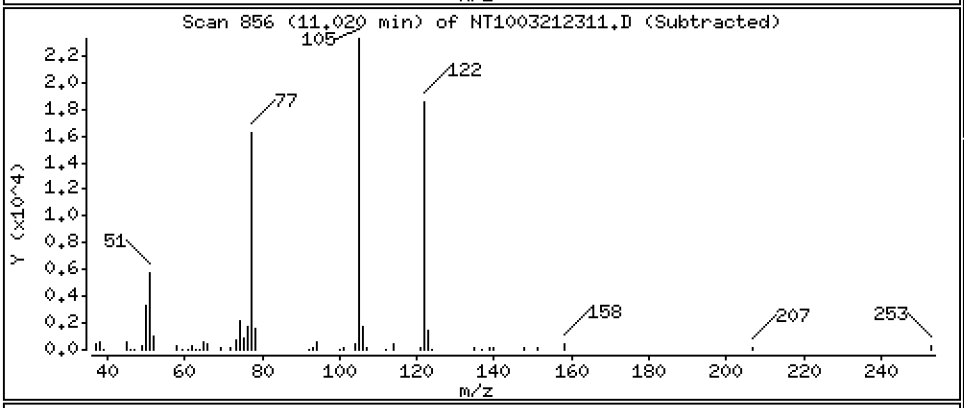
Column diameter: 0.25

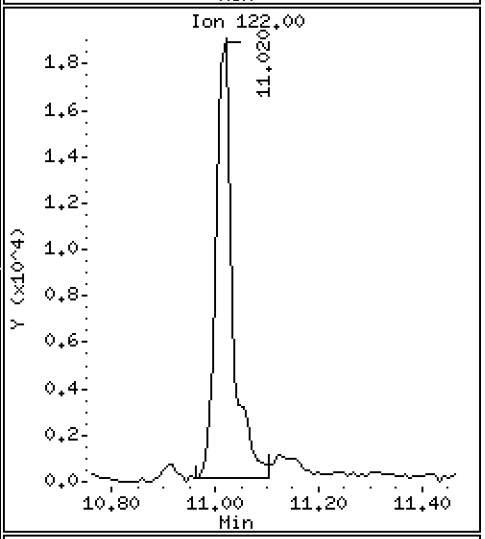
24 Benzoic acid

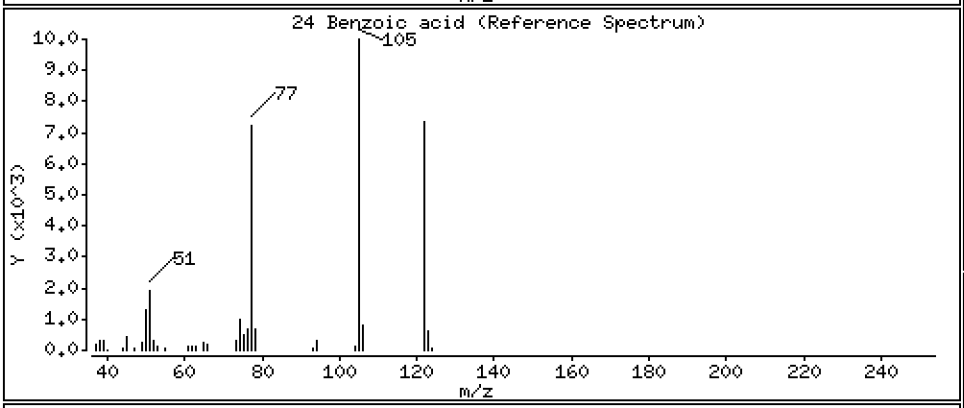
Concentration: 1.403 ug/mL

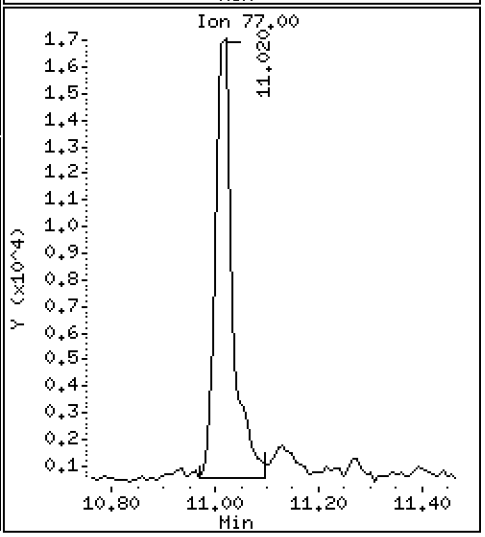


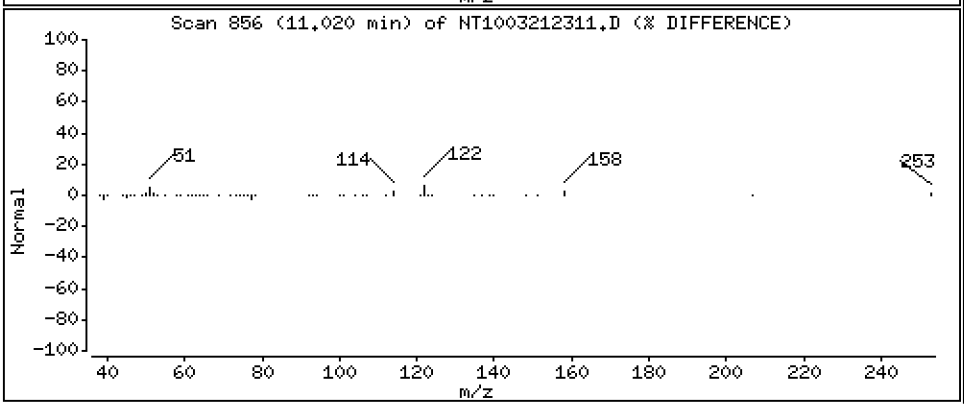












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212311.D

Date : 21-MAR-2023 23:35

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-02

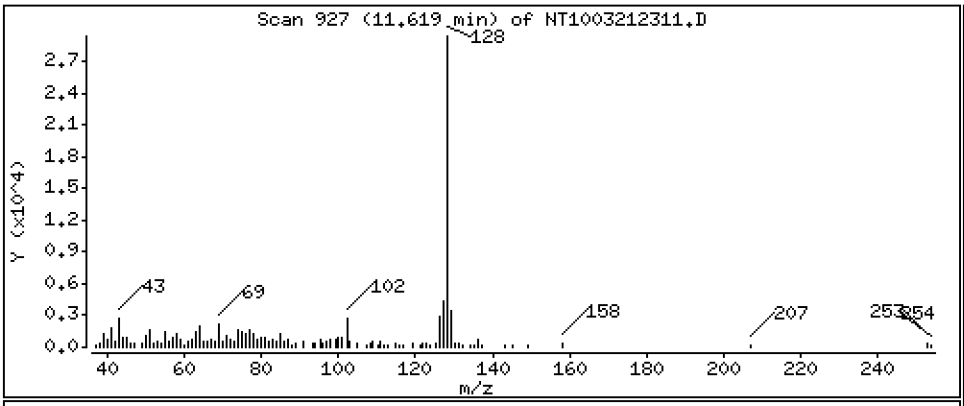
Operator: VTS

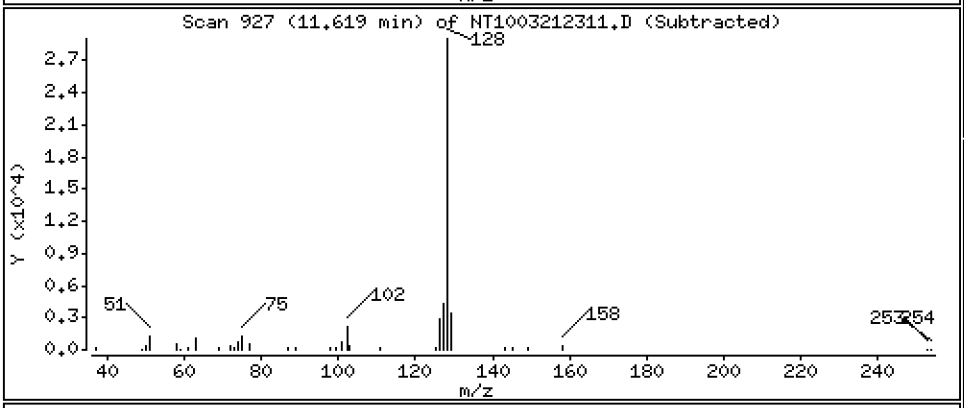
Column phase: ZB-5msi

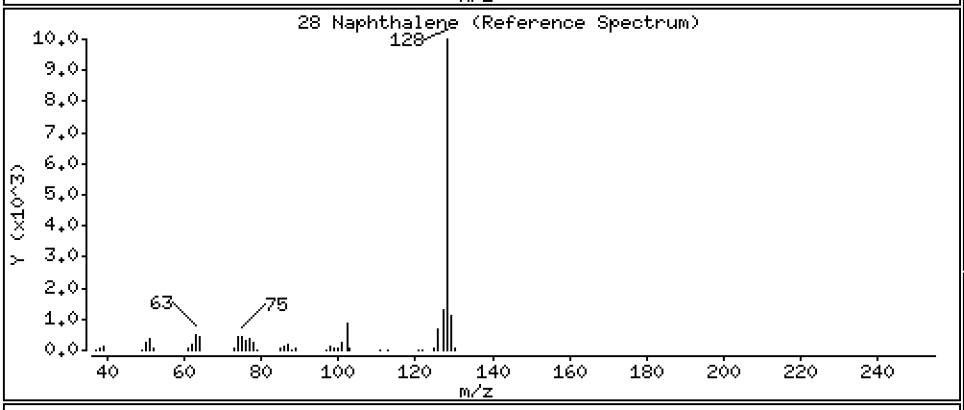
Column diameter: 0.25

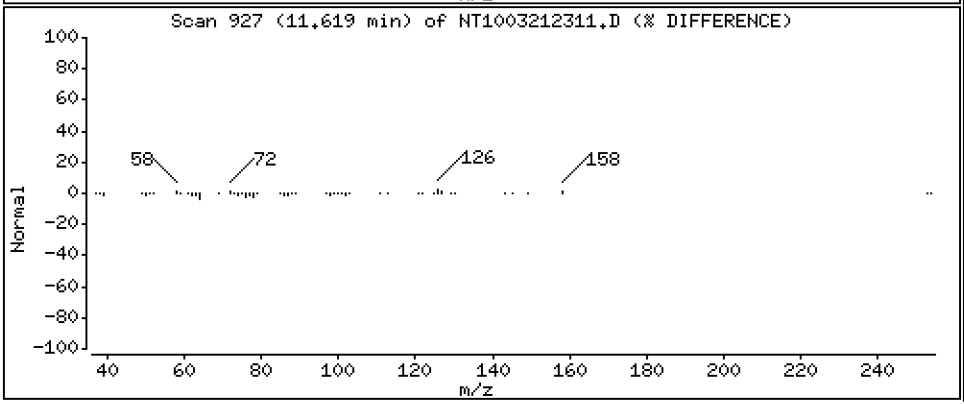
28 Naphthalene

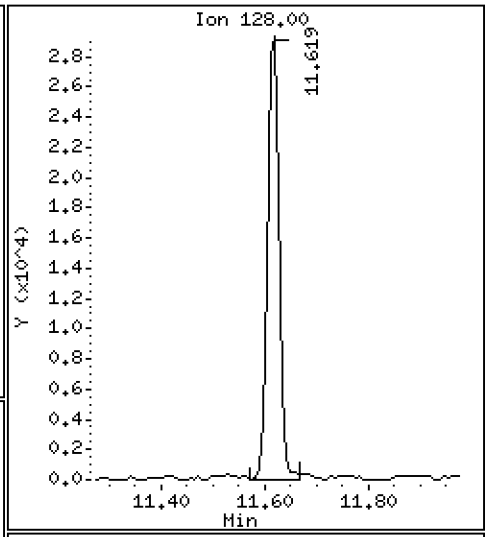
Concentration: 0.2387 ug/mL

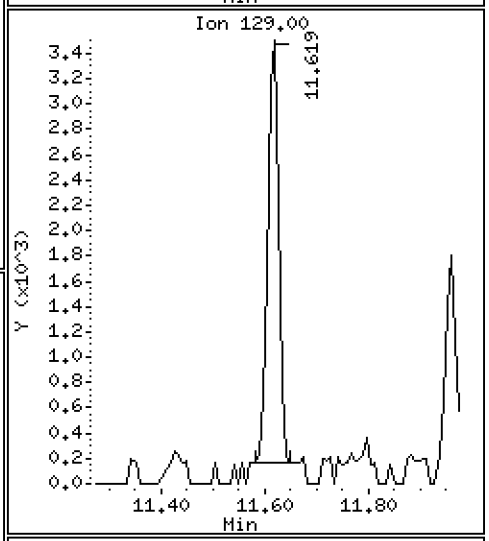


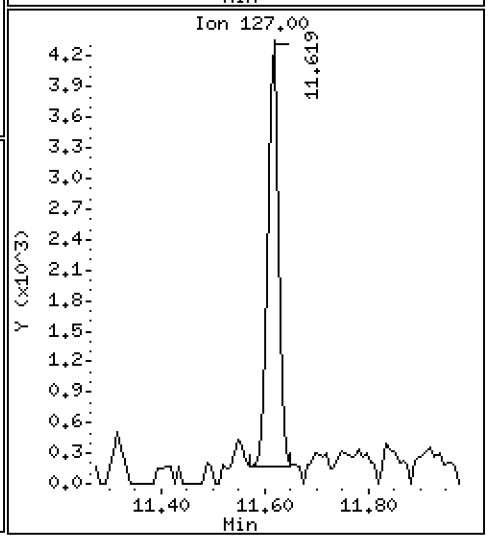












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212311.D

Date : 21-MAR-2023 23:35

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-02

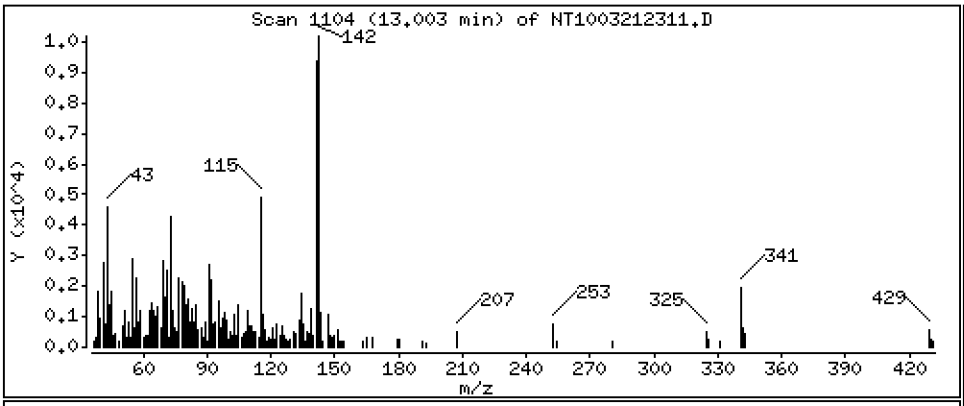
Operator: VTS

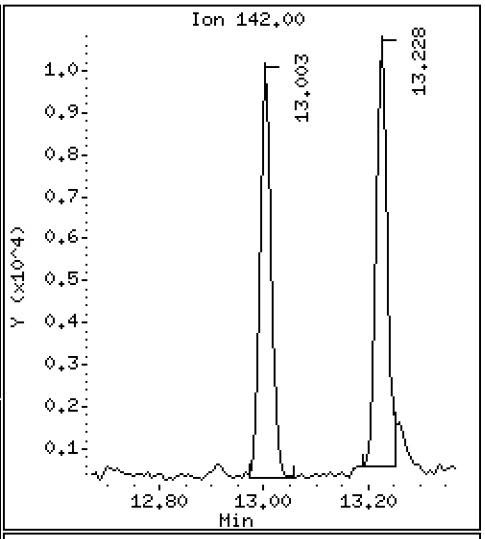
Column phase: ZB-5msi

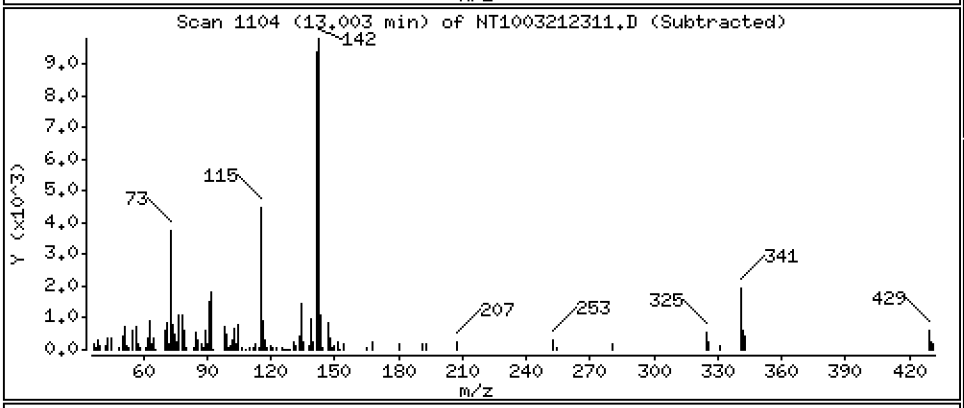
Column diameter: 0.25

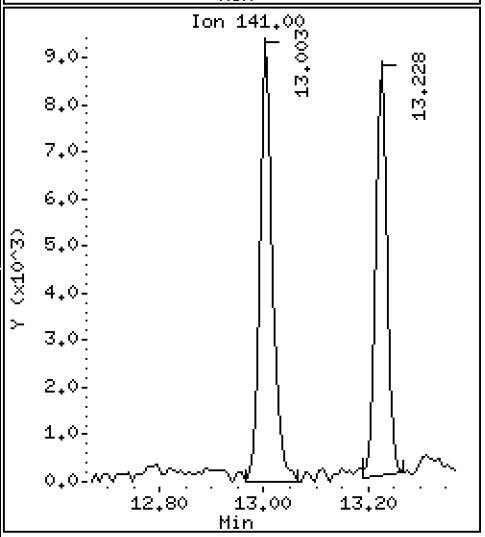
32 2-Methylnaphthalene

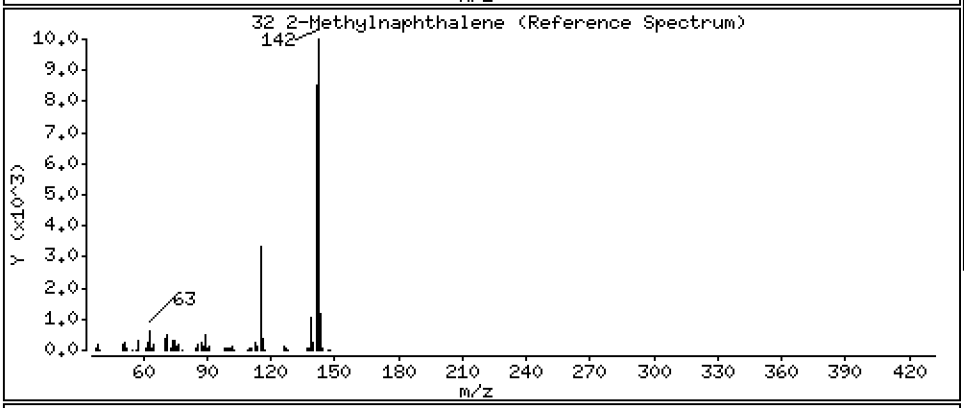
Concentration: 0.1028 ug/mL

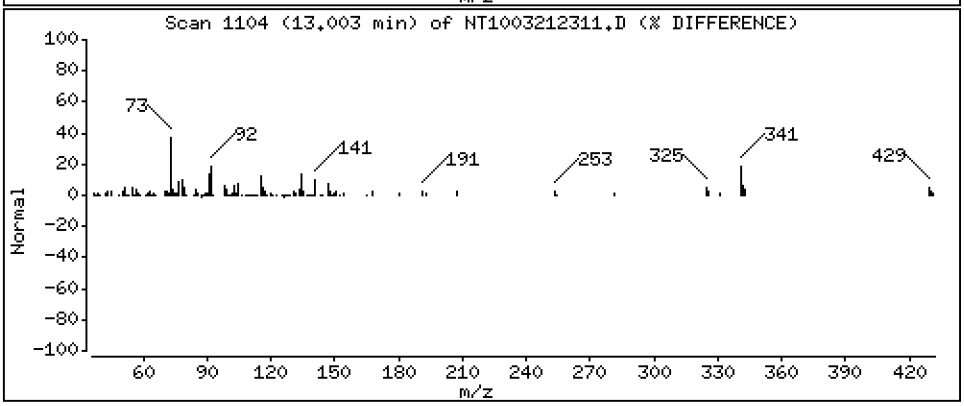












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212311.D

Date : 21-MAR-2023 23:35

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-02

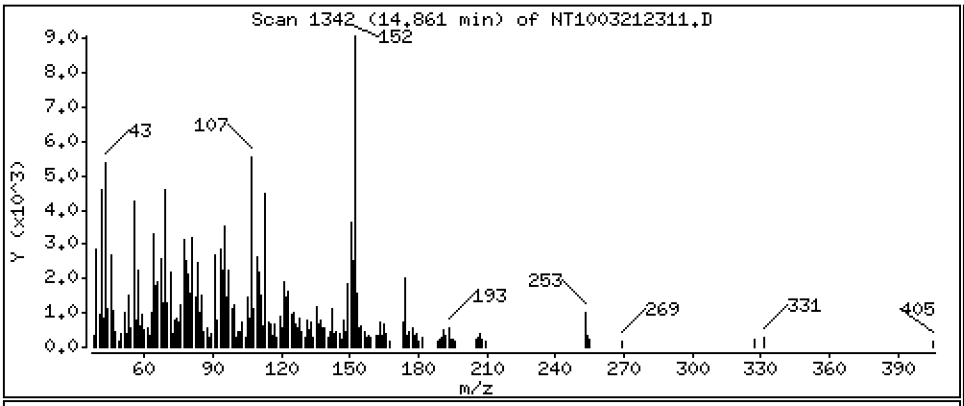
Operator: VTS

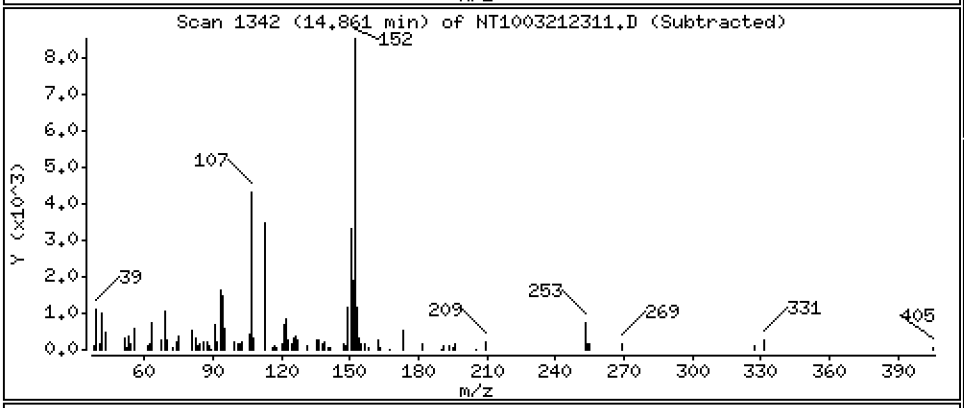
Column phase: ZB-5msi

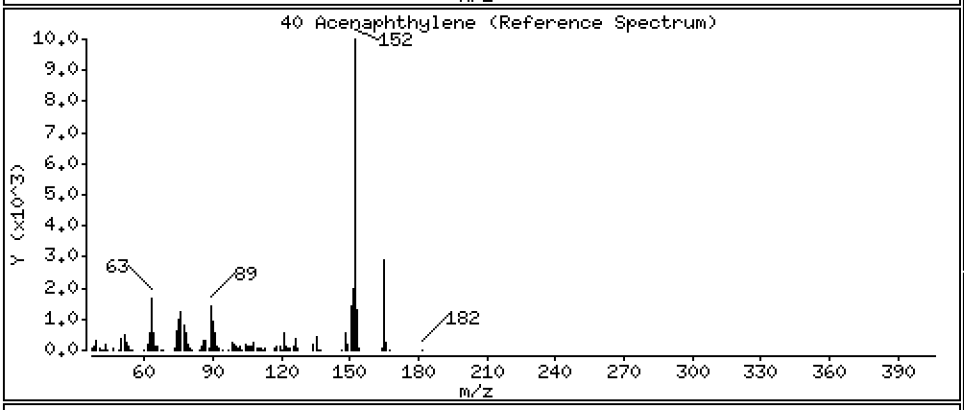
Column diameter: 0.25

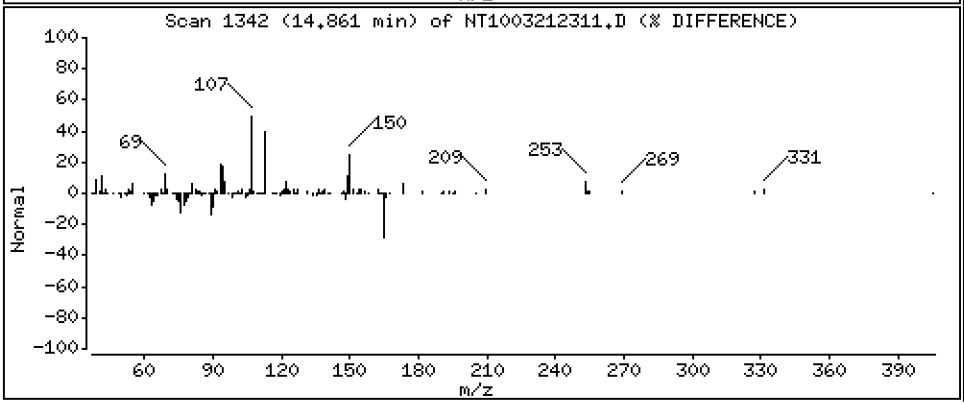
40 Acenaphthylene

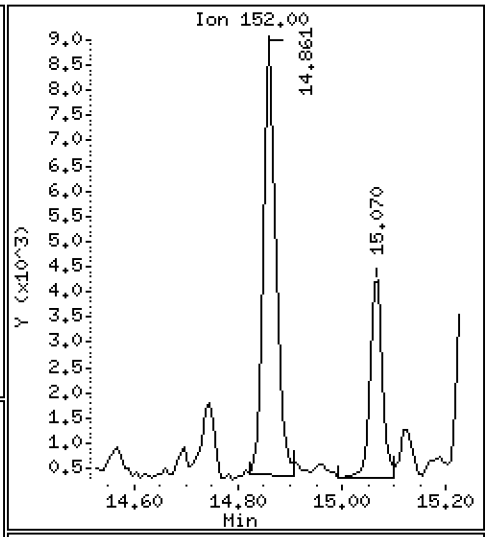
Concentration: 0.06796 ug/mL

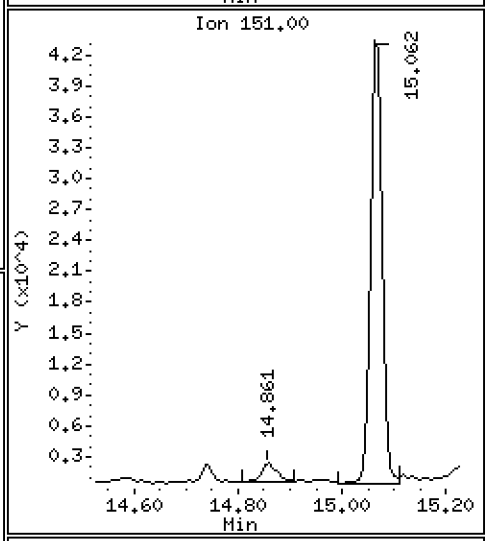


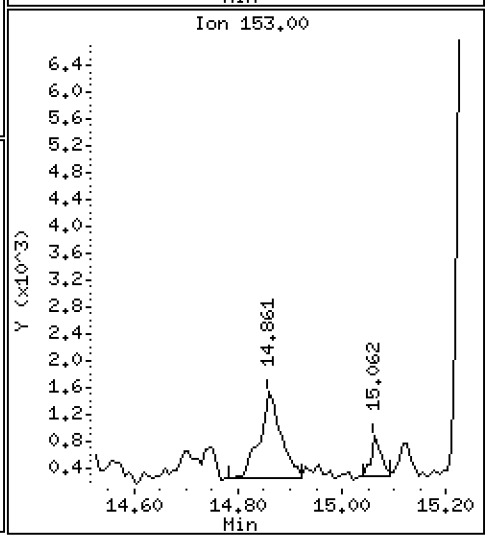












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212311.D

Date : 21-MAR-2023 23:35

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-02

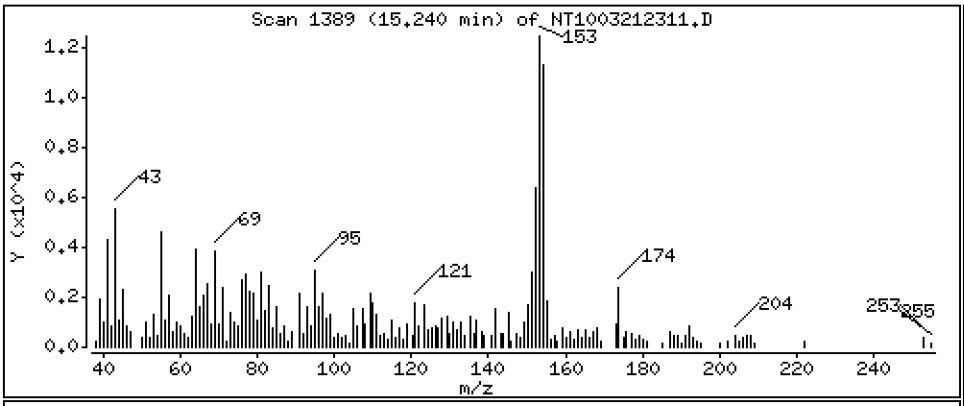
Operator: VTS

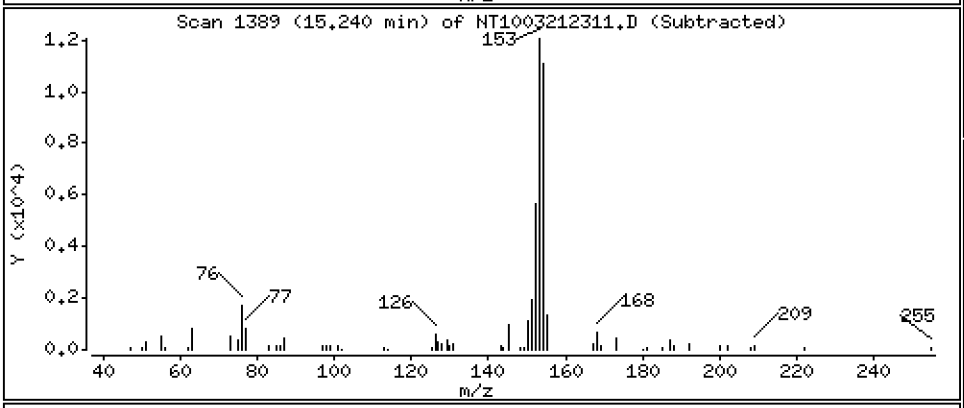
Column phase: ZB-5msi

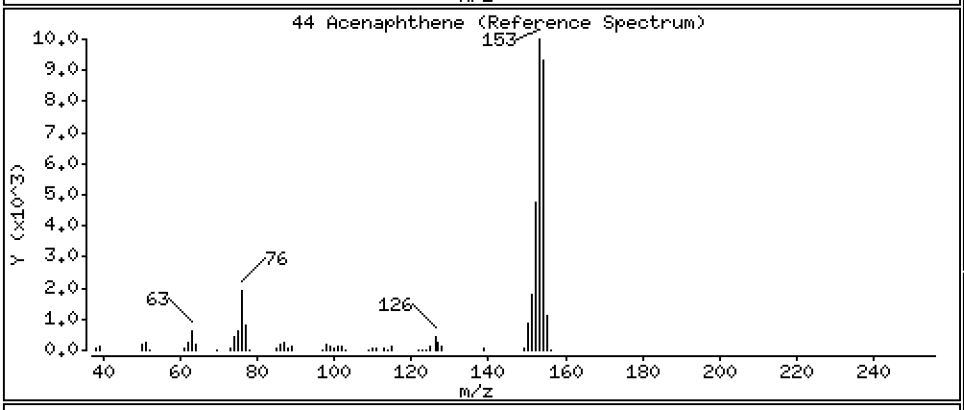
Column diameter: 0.25

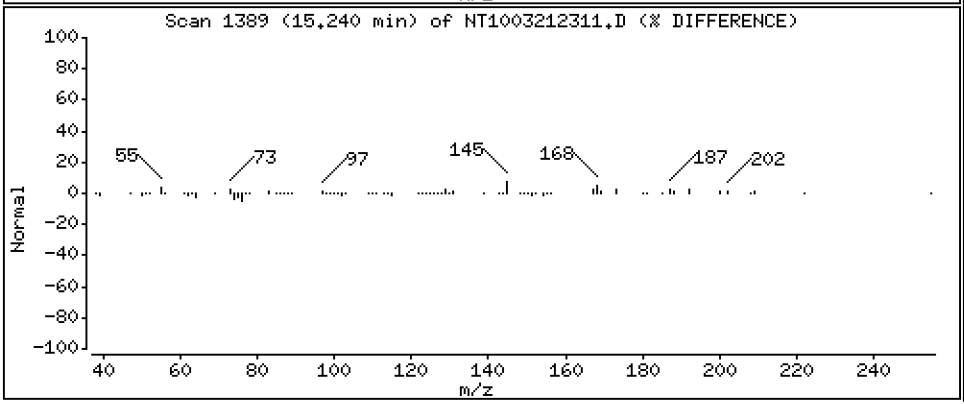
44 Acenaphthene

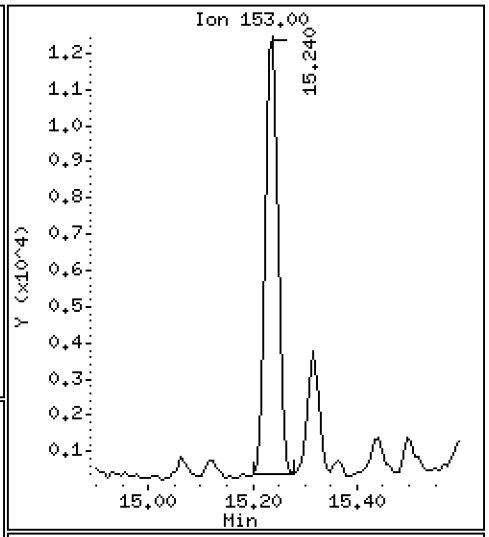
Concentration: 0.1513 ug/mL

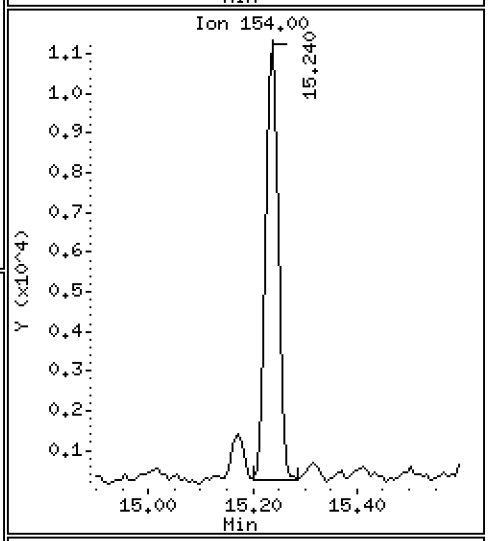


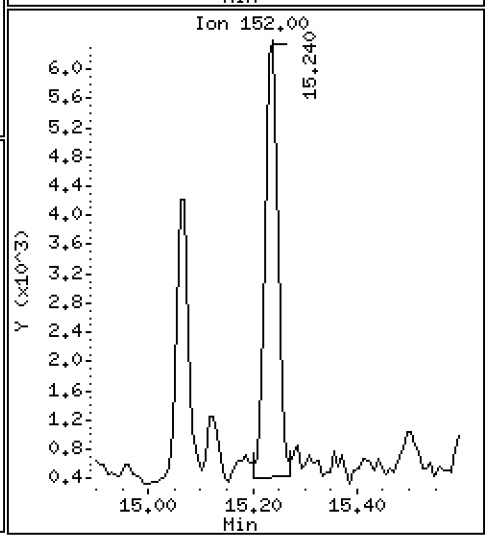












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Date : 21-MAR-2023 23:35

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-02

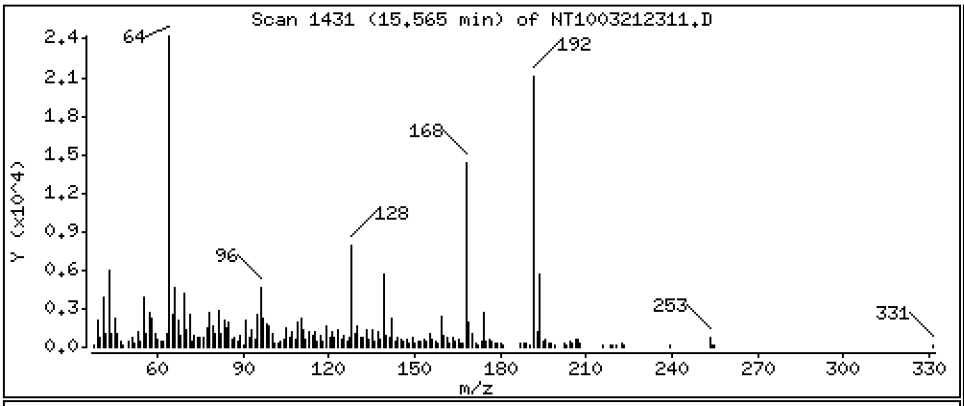
Operator: VTS

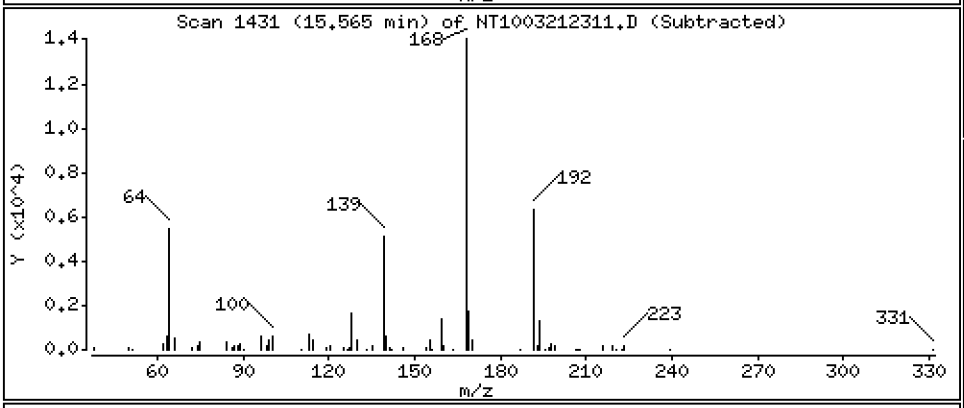
Column phase: ZB-5msi

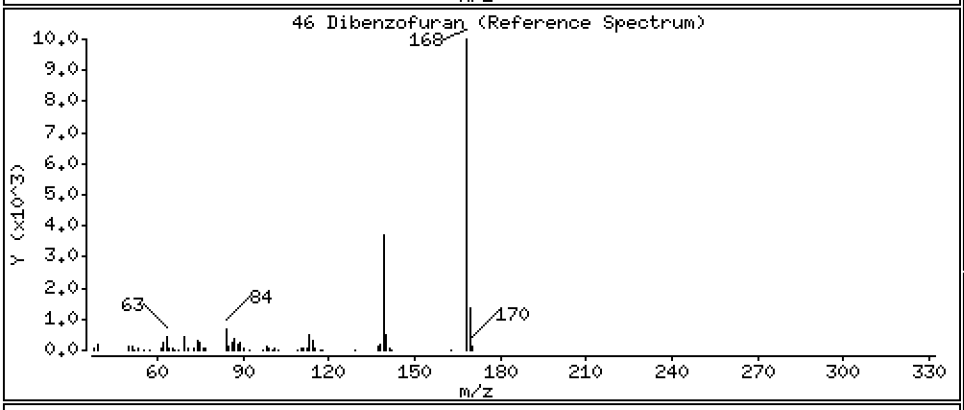
Column diameter: 0.25

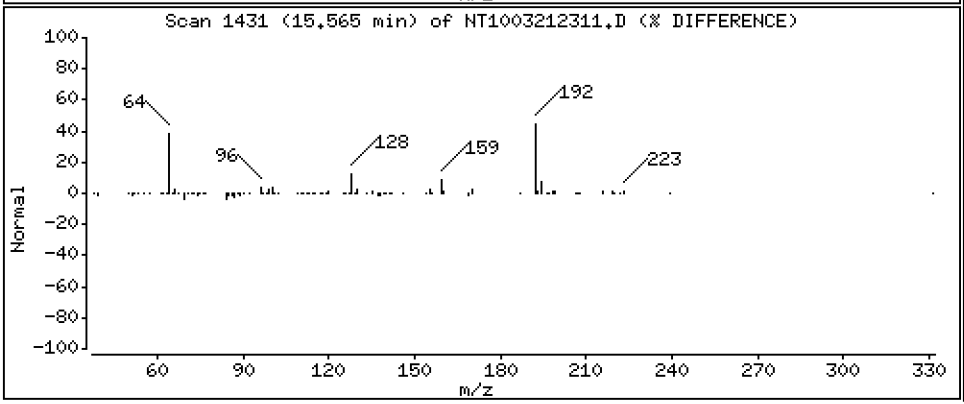
46 Dibenzofuran

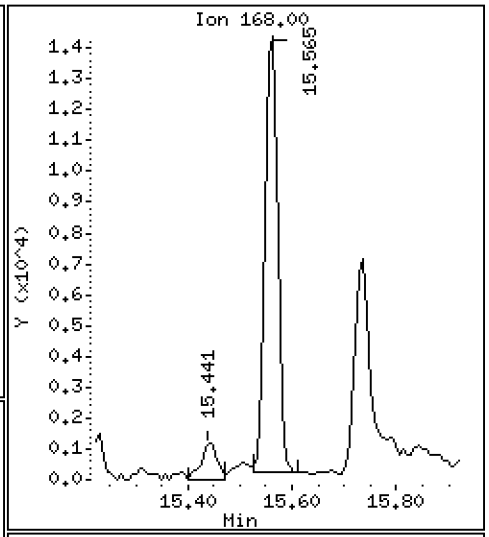
Concentration: 0.1214 ug/mL

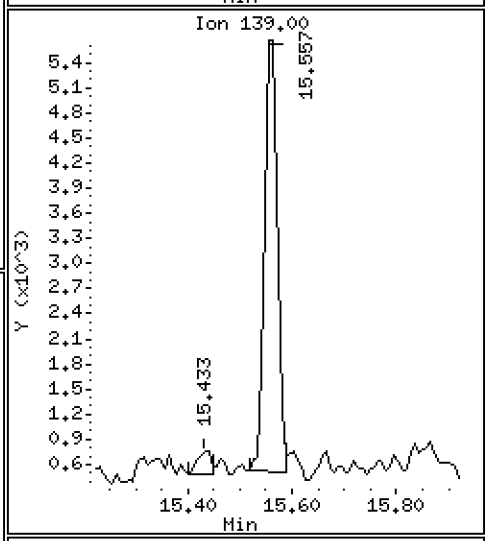


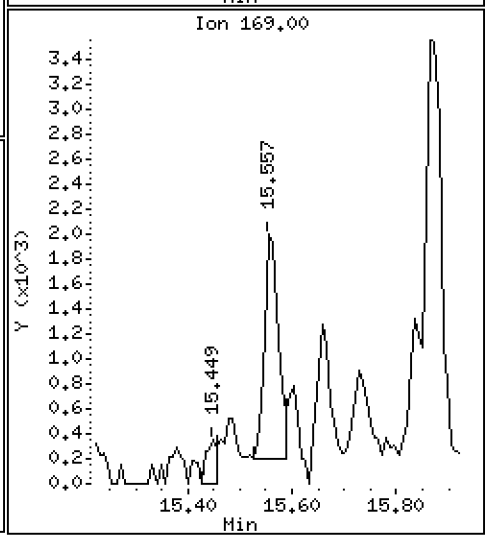












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Date : 21-MAR-2023 23:35

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-02

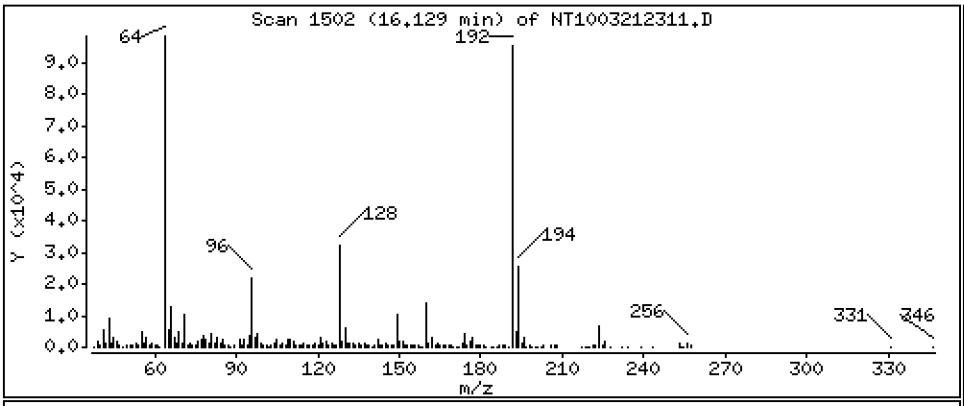
Operator: VTS

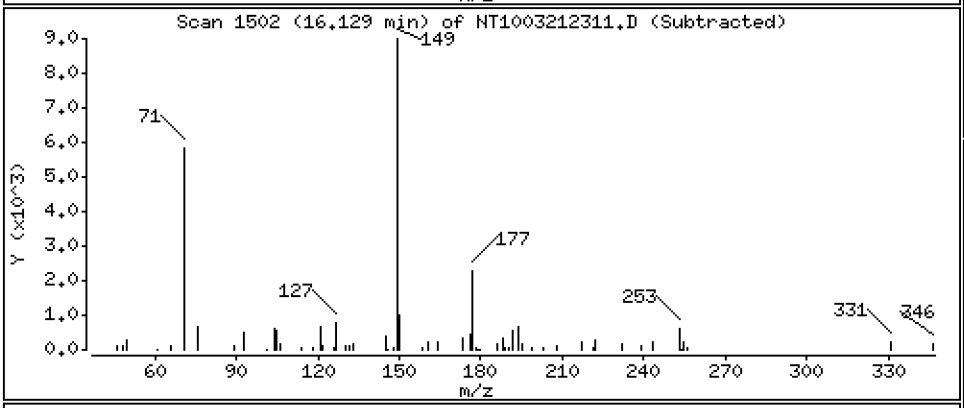
Column phase: ZB-5msi

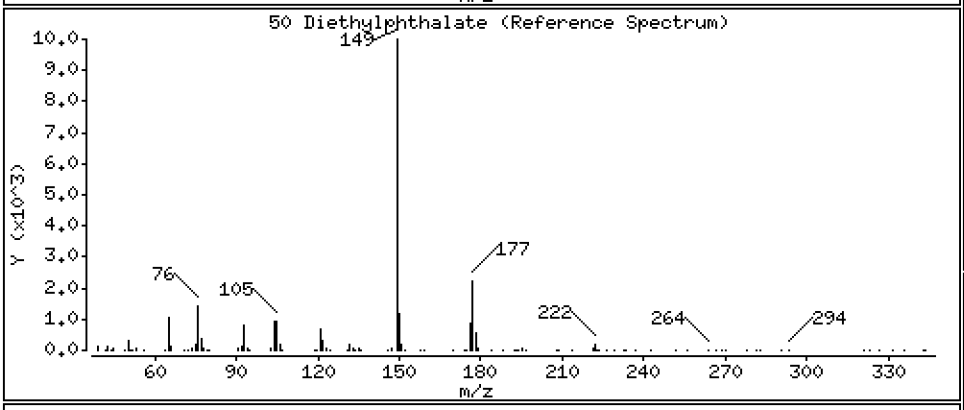
Column diameter: 0.25

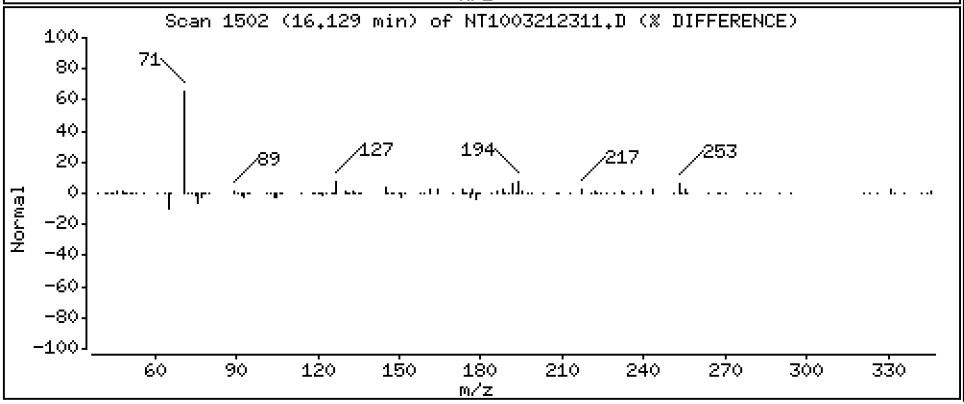
50 Diethylphthalate

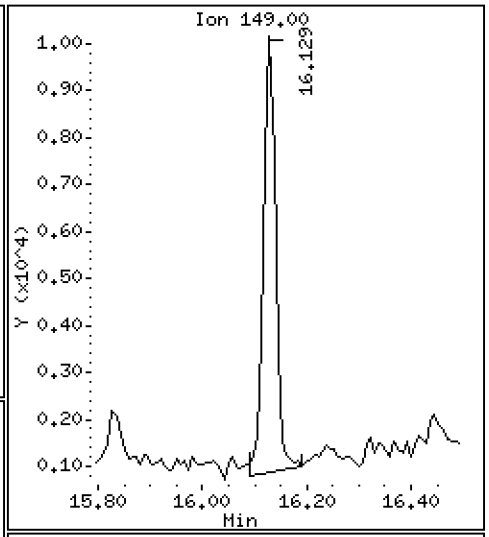
Concentration: 0.1084 ug/mL

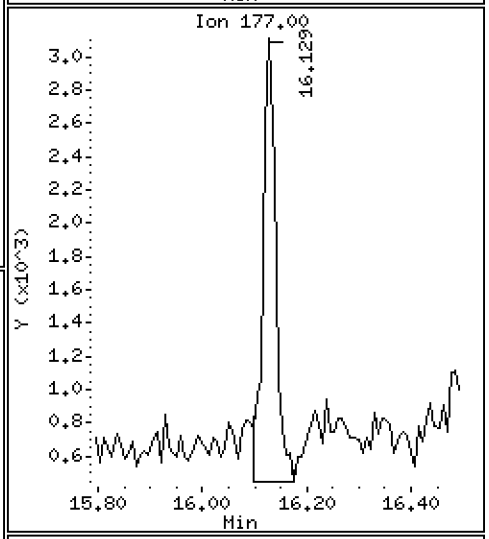


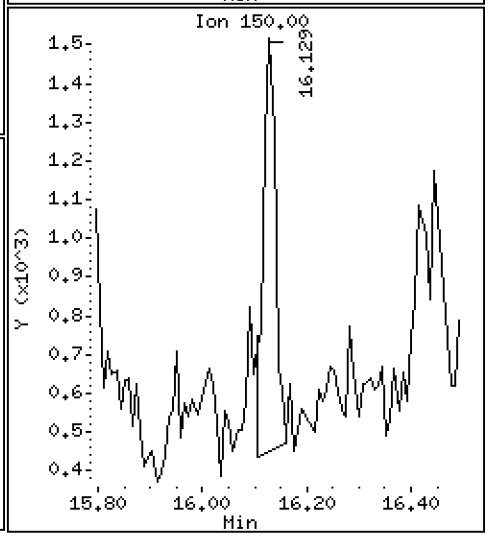












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212311.D

Date : 21-MAR-2023 23:35

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-02

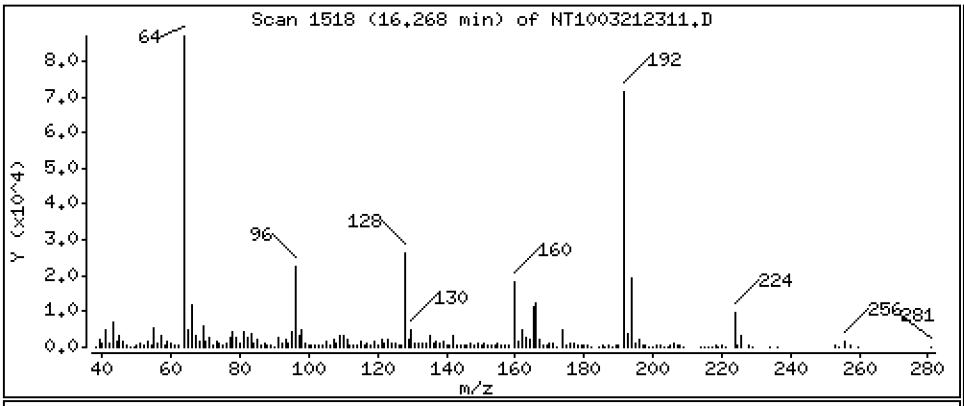
Operator: VTS

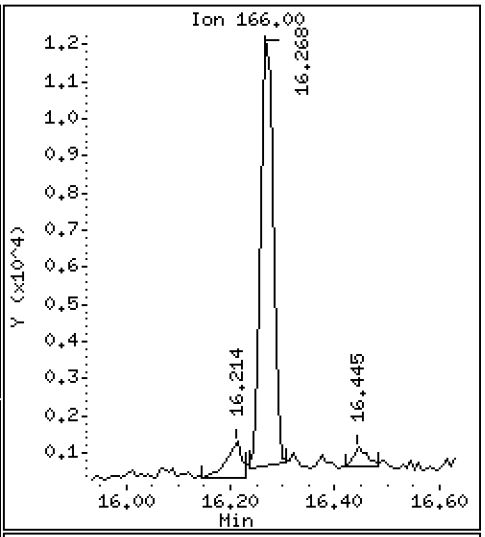
Column phase: ZB-5msi

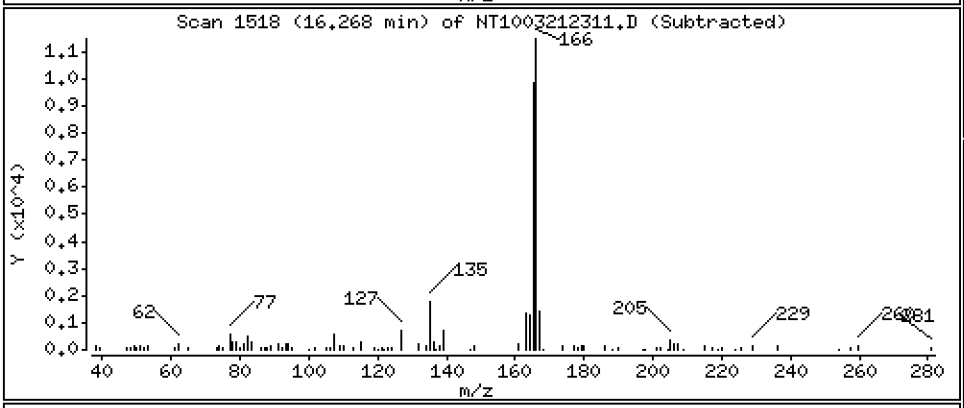
Column diameter: 0.25

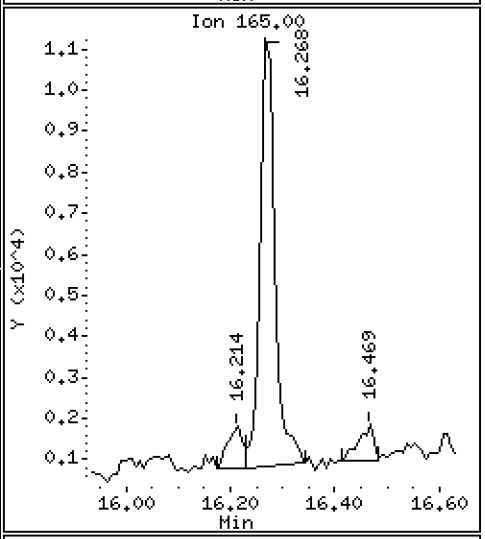
49 Fluorene

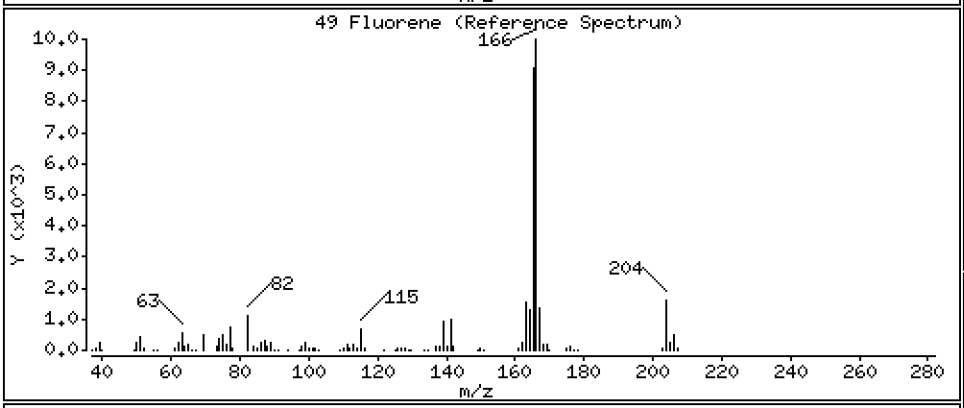
Concentration: 0.1216 ug/mL

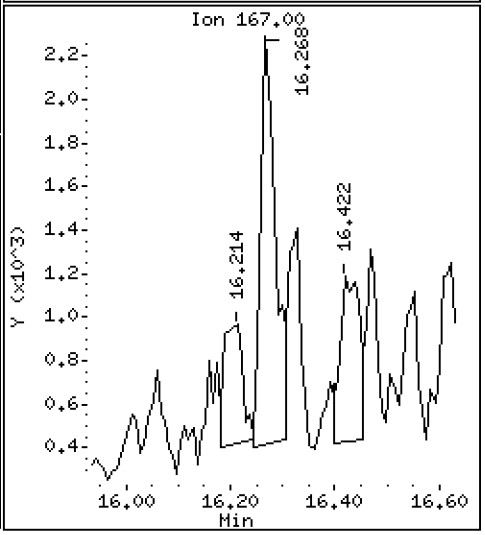


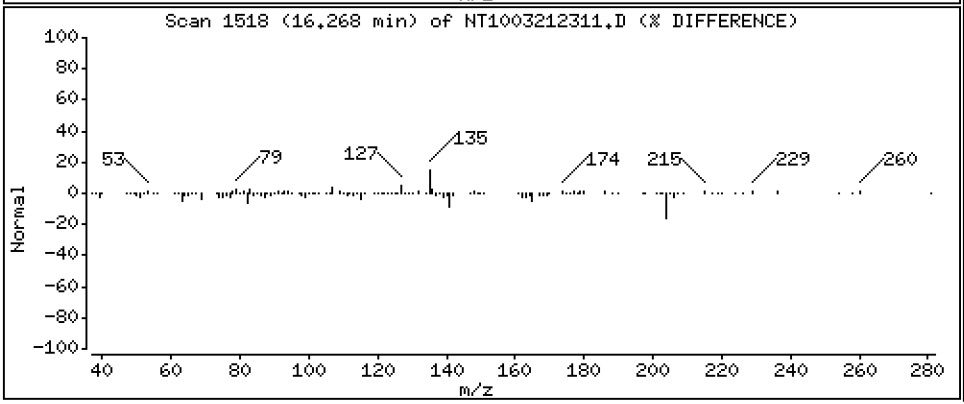












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212311.D

Date : 21-MAR-2023 23:35

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-02

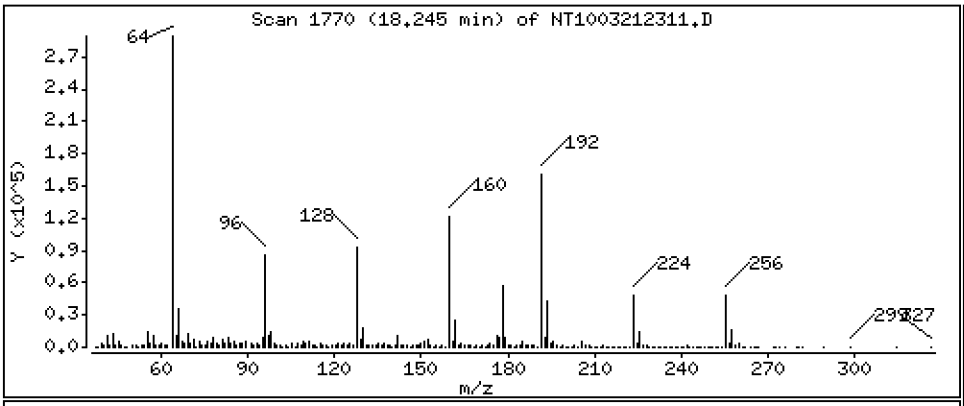
Operator: VTS

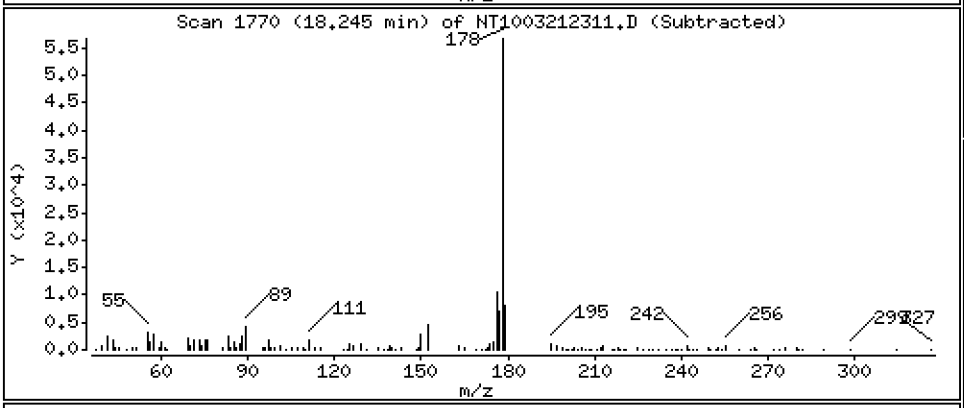
Column phase: ZB-5msi

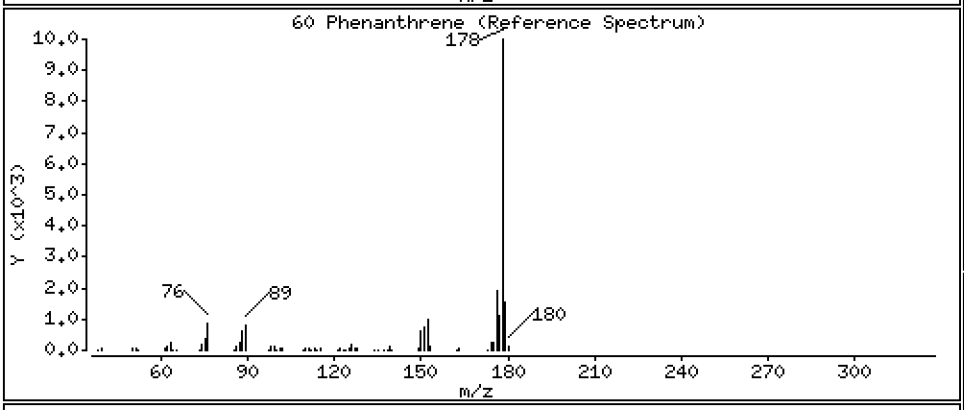
Column diameter: 0.25

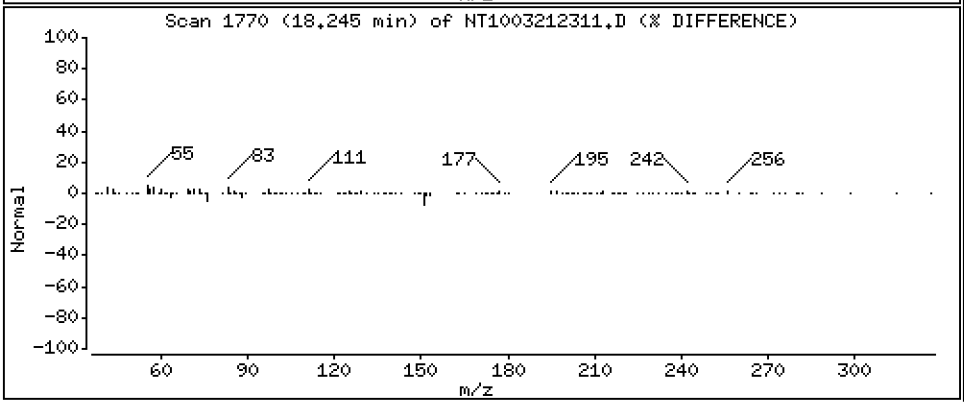
60 Phenanthrene

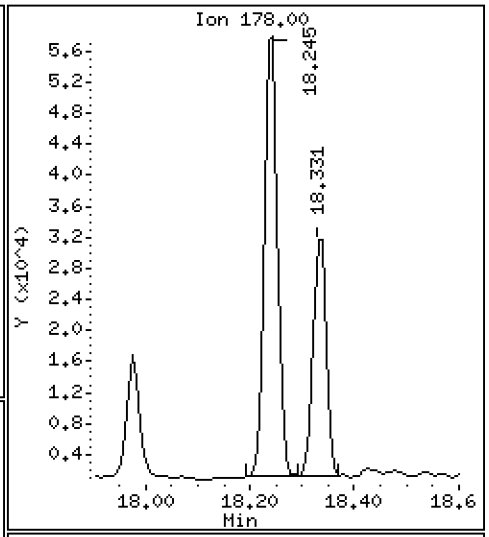
Concentration: 0.4685 ug/mL

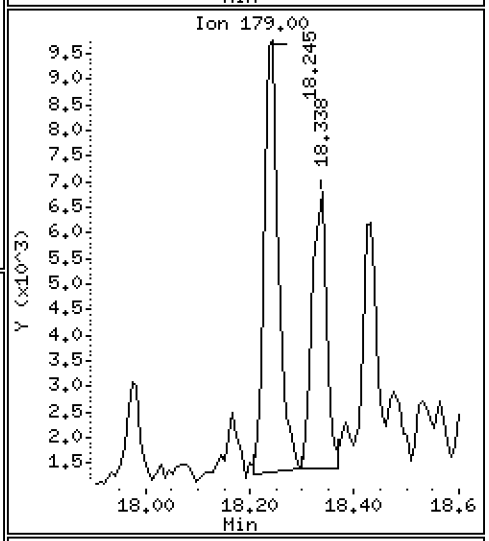


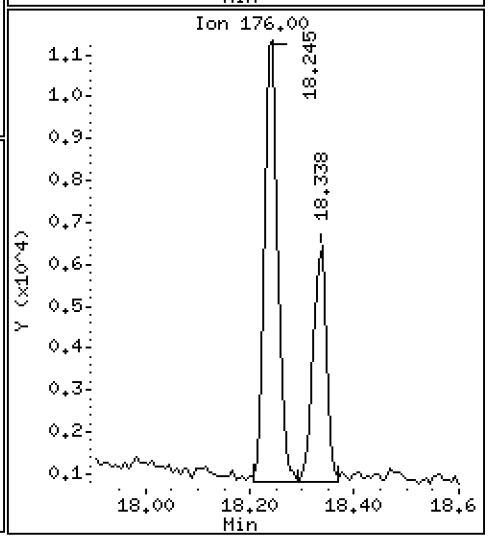












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Date : 21-MAR-2023 23:35

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-02

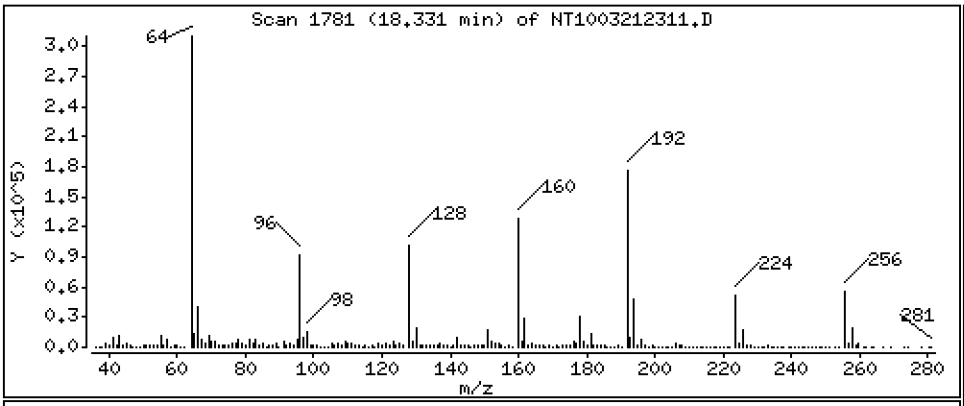
Operator: VTS

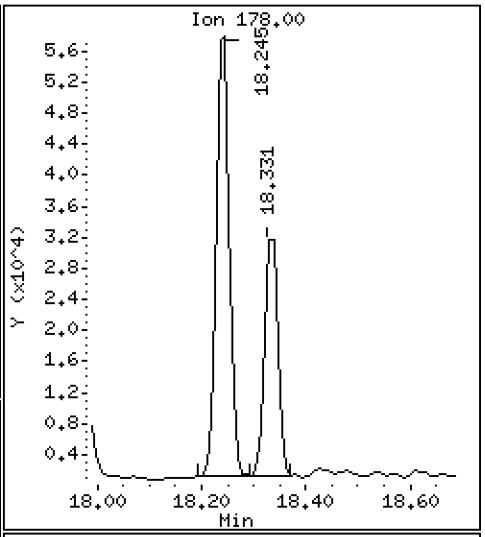
Column phase: ZB-5msi

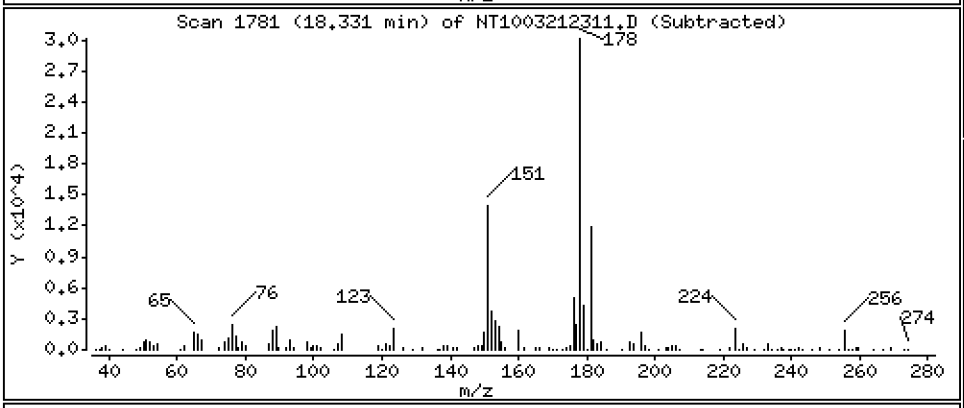
Column diameter: 0.25

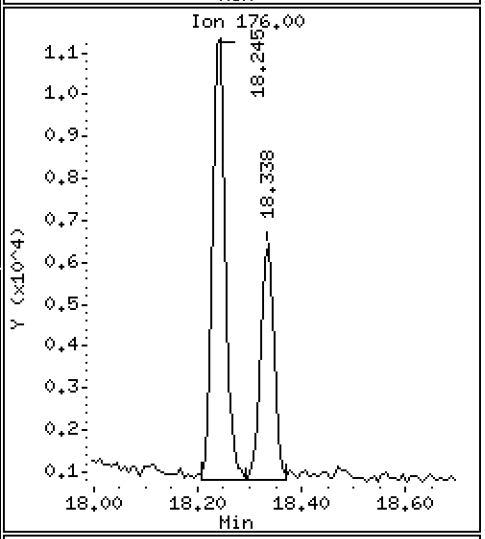
61 Anthracene

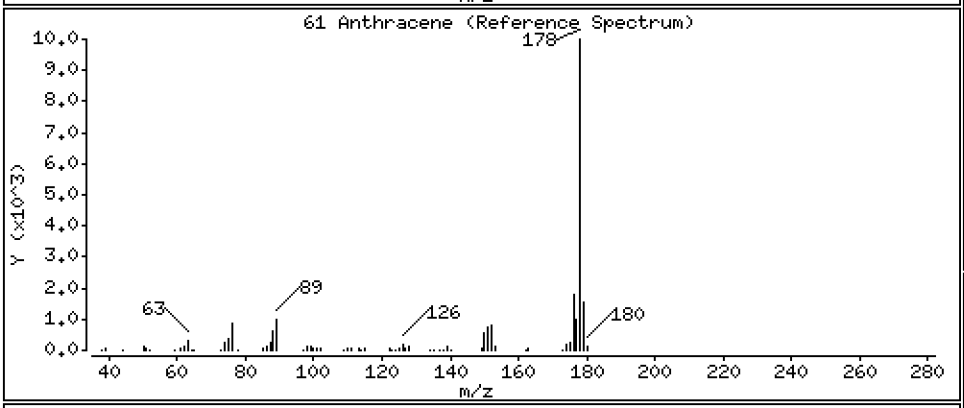
Concentration: 0.2548 ug/mL

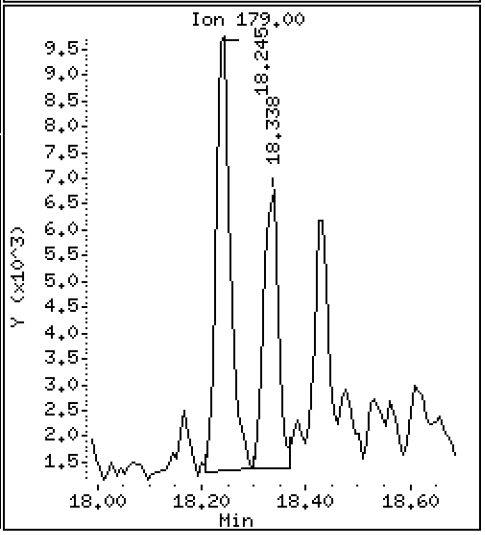


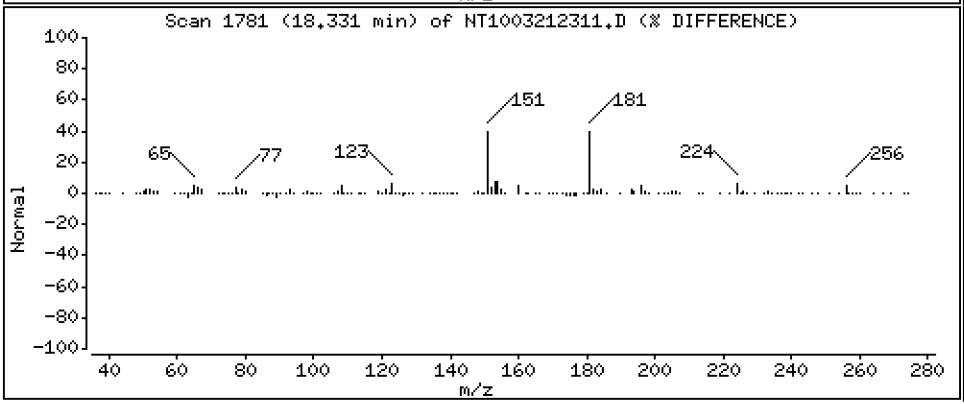












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Date : 21-MAR-2023 23:35

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-02

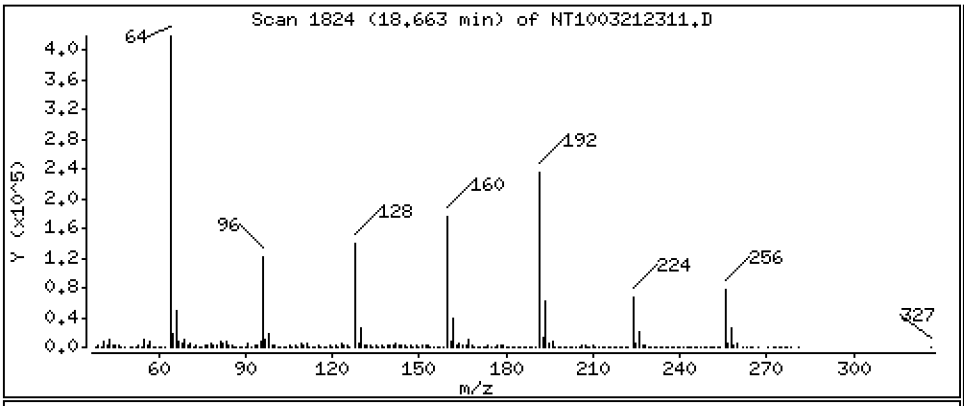
Operator: VTS

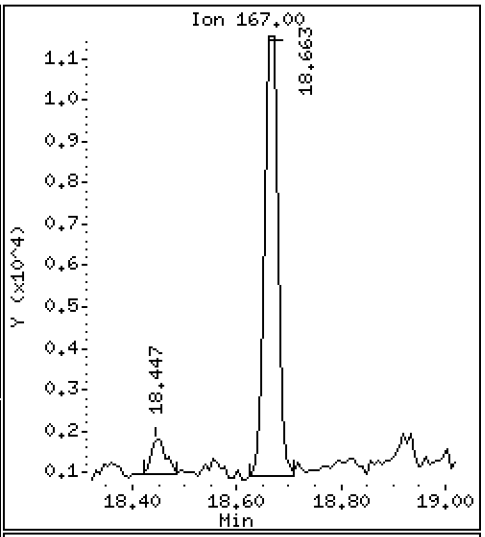
Column phase: ZB-5msi

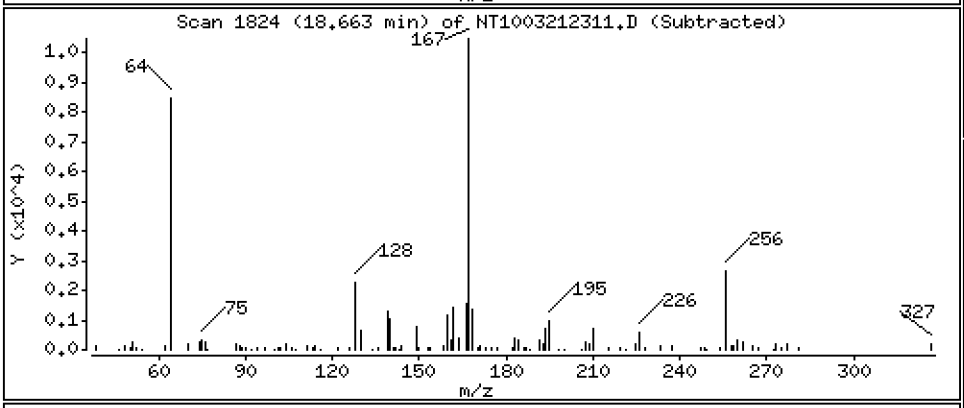
Column diameter: 0.25

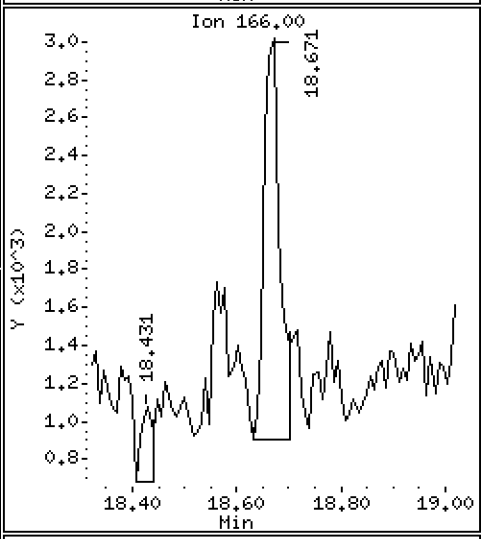
62 Carbazole

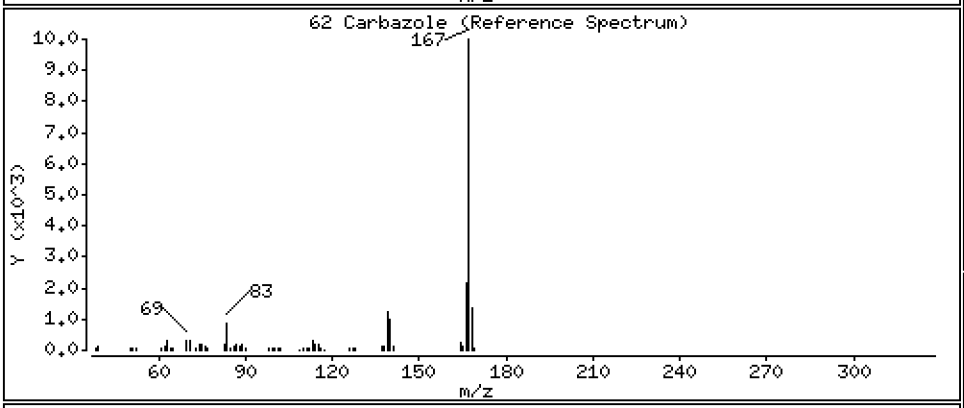
Concentration: 0.09847 ug/mL

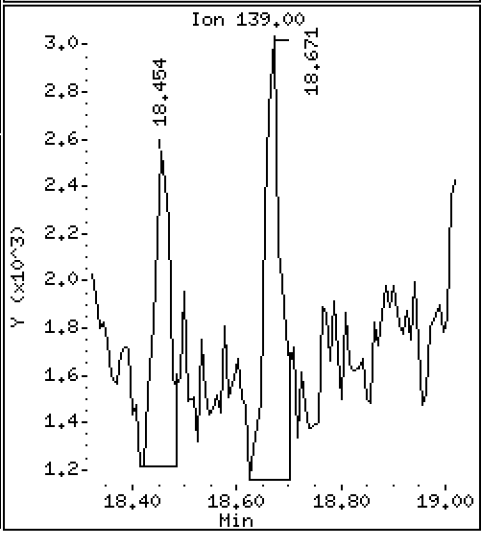


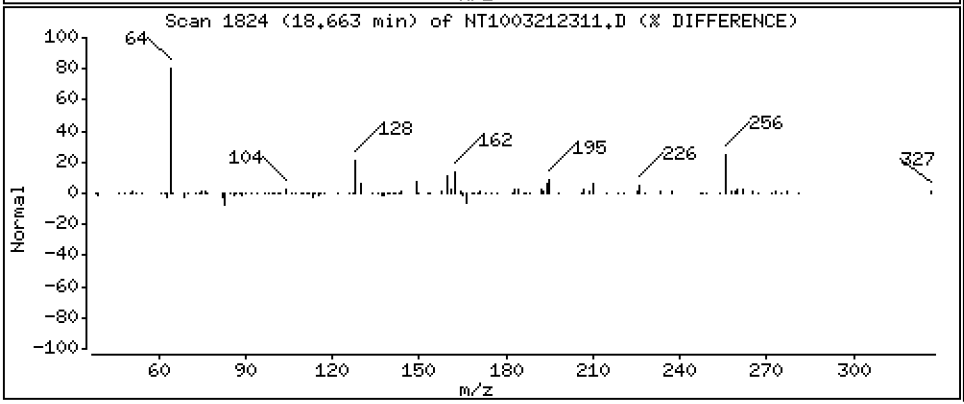












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212311.D

Date : 21-MAR-2023 23:35

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-02

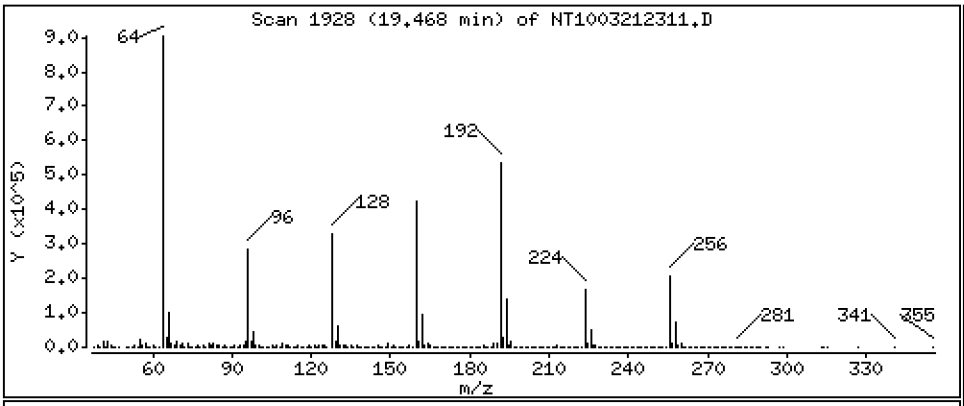
Operator: VTS

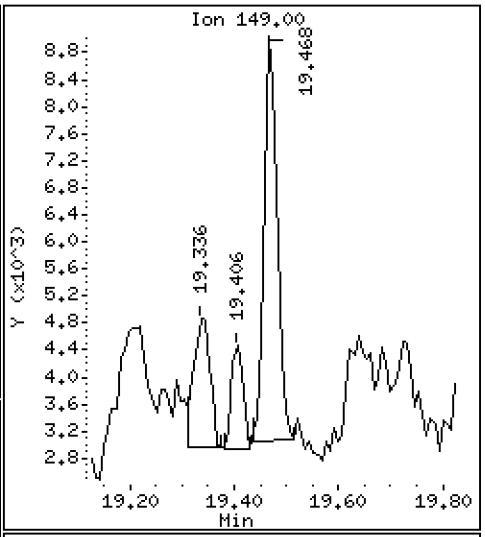
Column phase: ZB-5msi

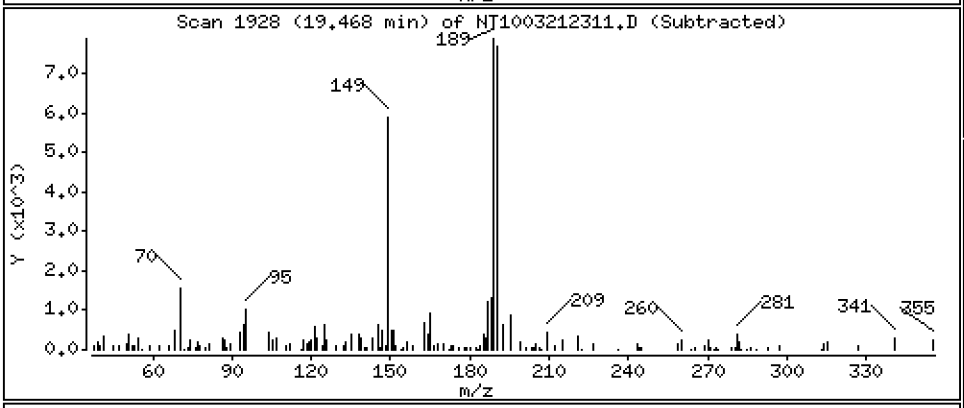
Column diameter: 0.25

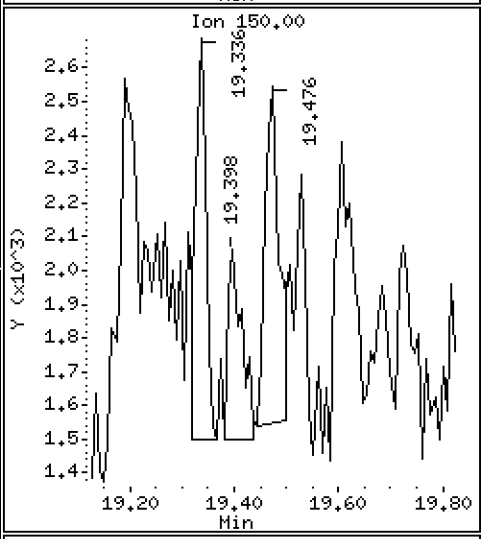
63 Di-n-butylphthalate

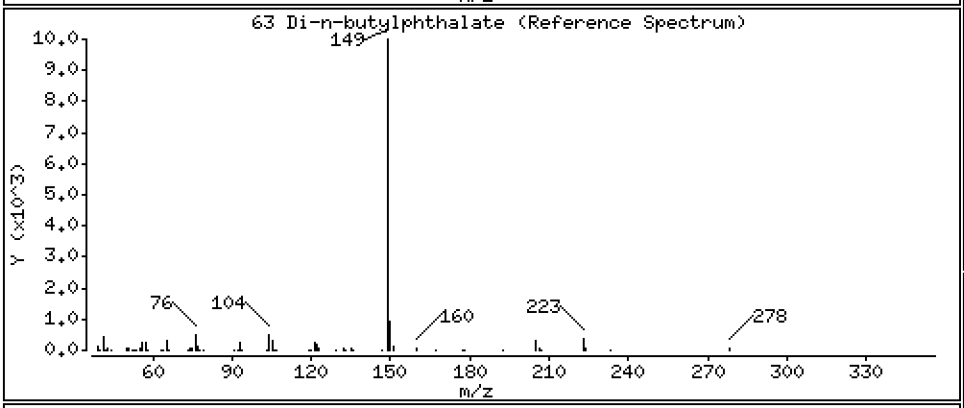
Concentration: 0.04139 ug/mL

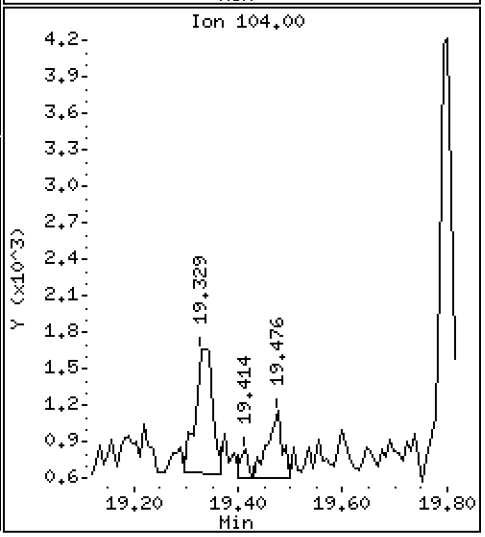


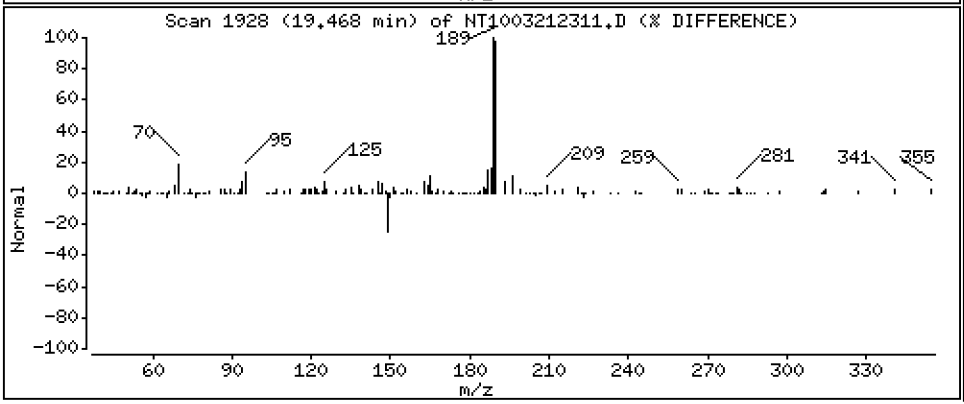












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Date : 21-MAR-2023 23:35

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-02

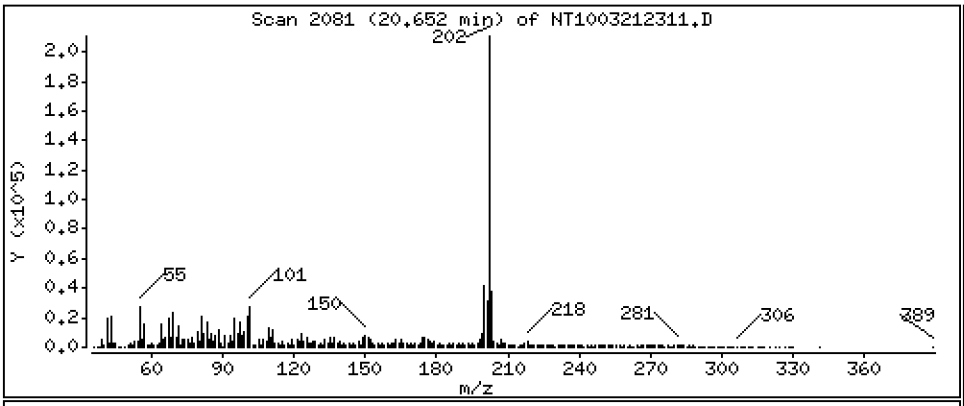
Operator: VTS

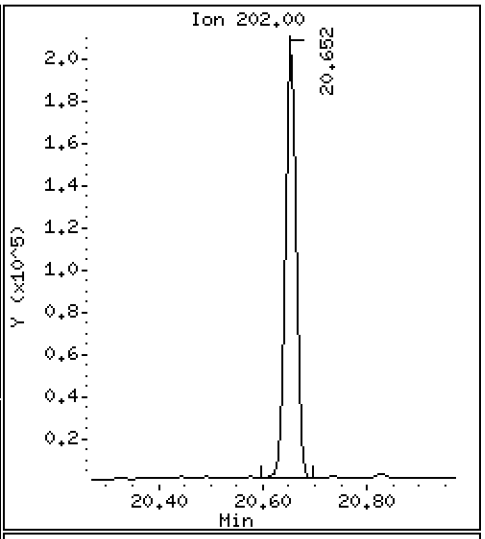
Column phase: ZB-5msi

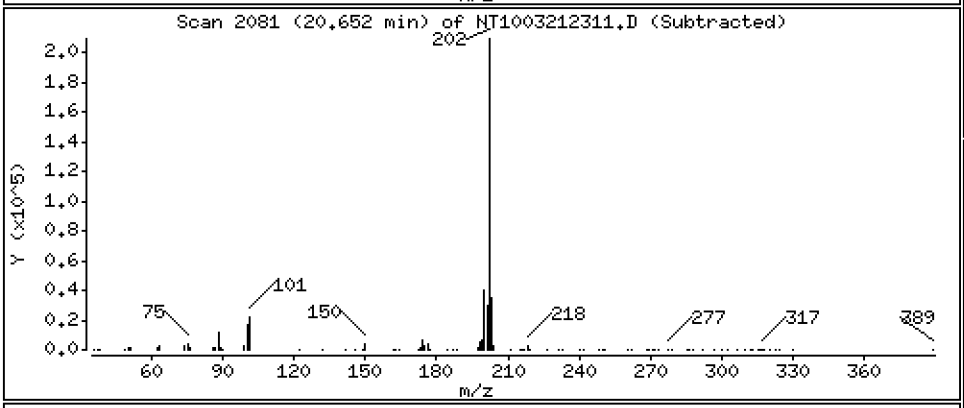
Column diameter: 0.25

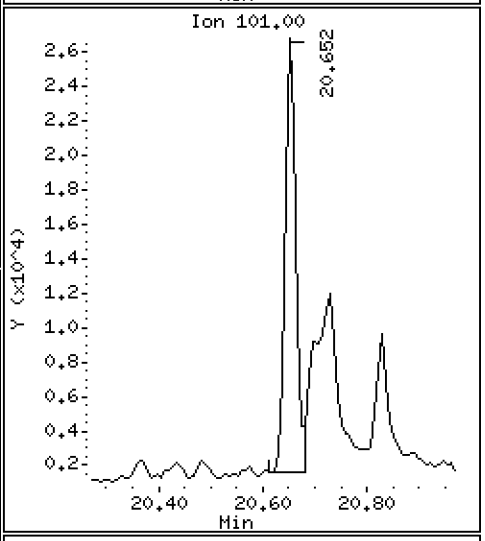
64 Fluoranthene

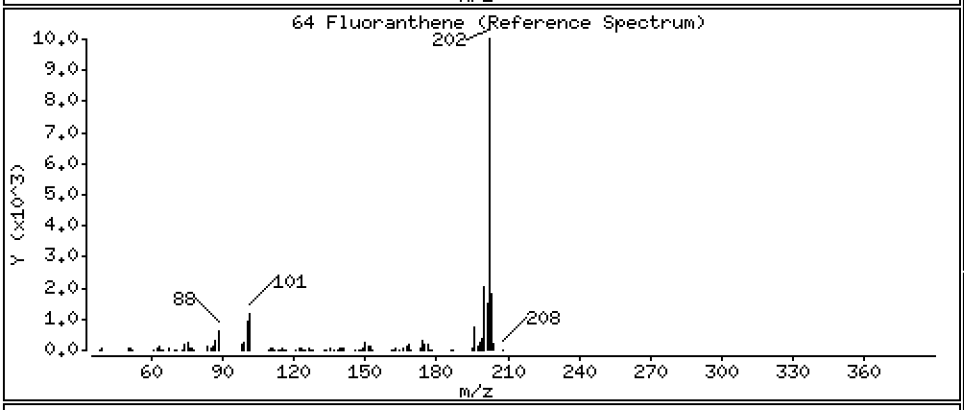
Concentration: 1.107 ug/mL

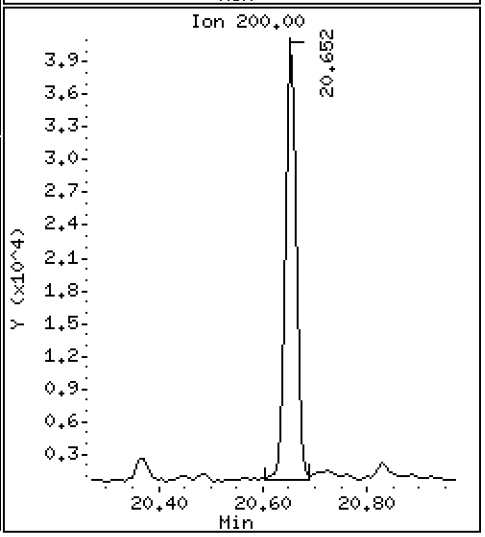


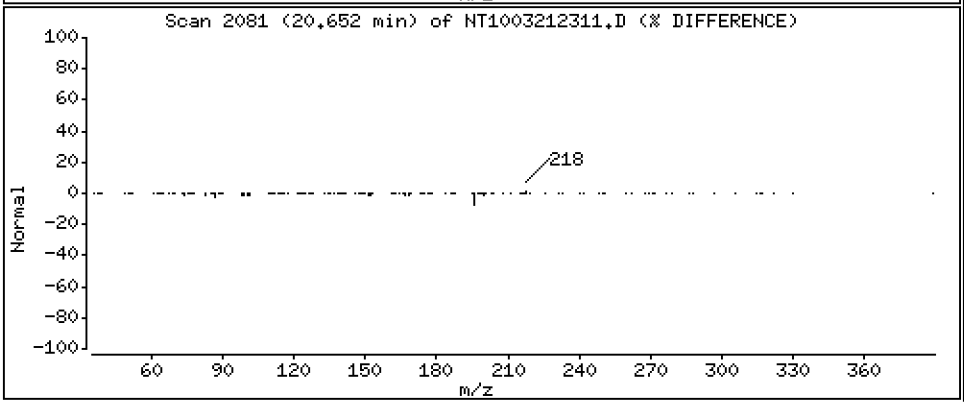












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Date : 21-MAR-2023 23:35

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-02

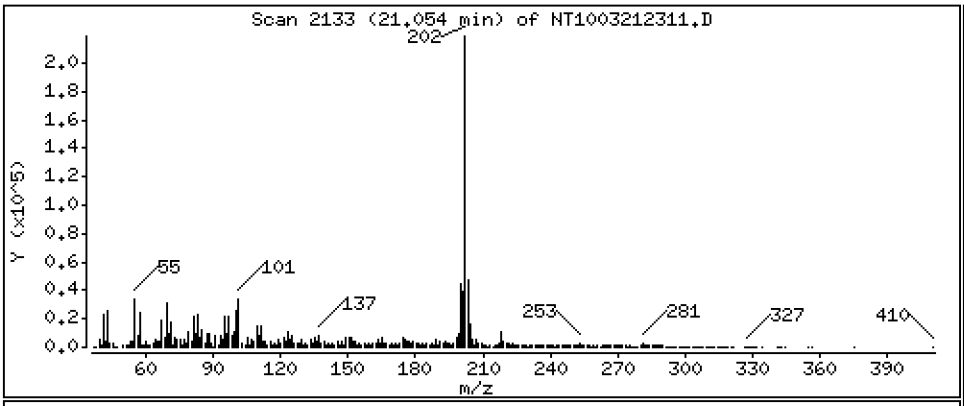
Operator: VTS

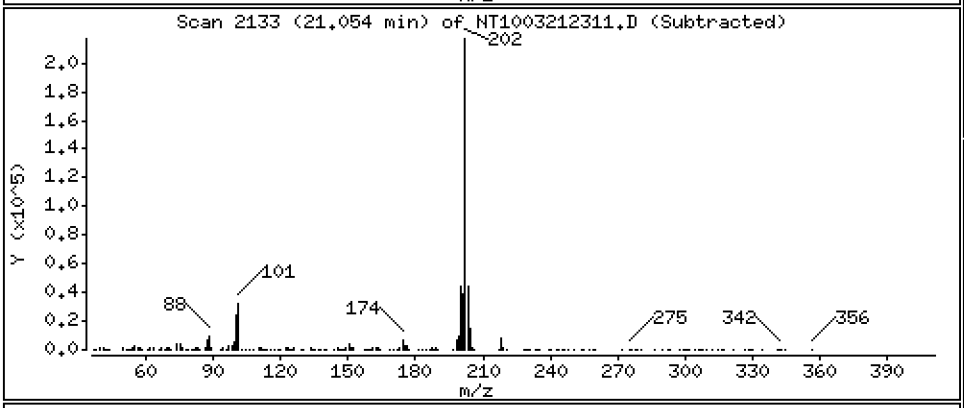
Column phase: ZB-5msi

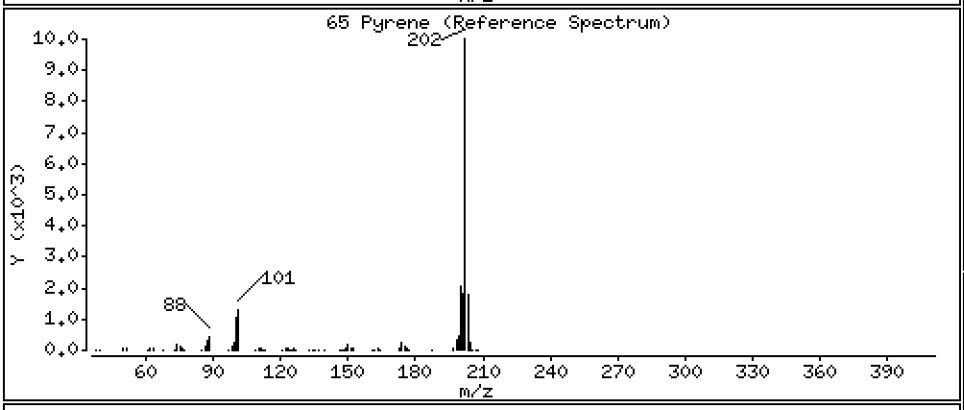
Column diameter: 0.25

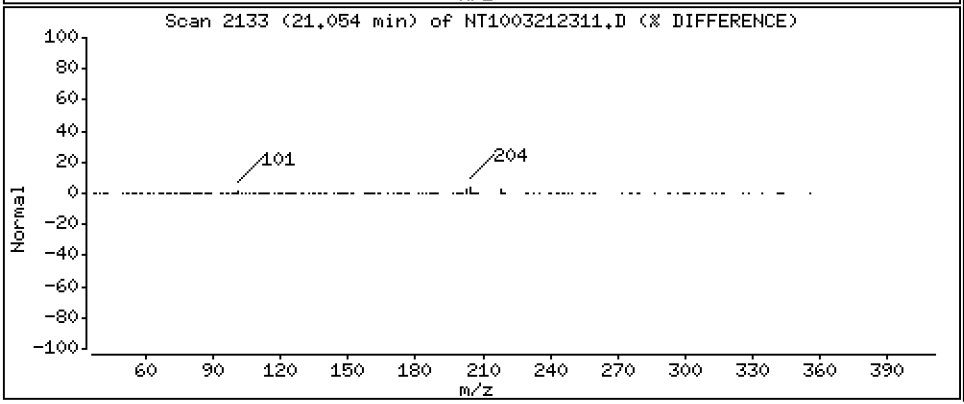
65 Pyrene

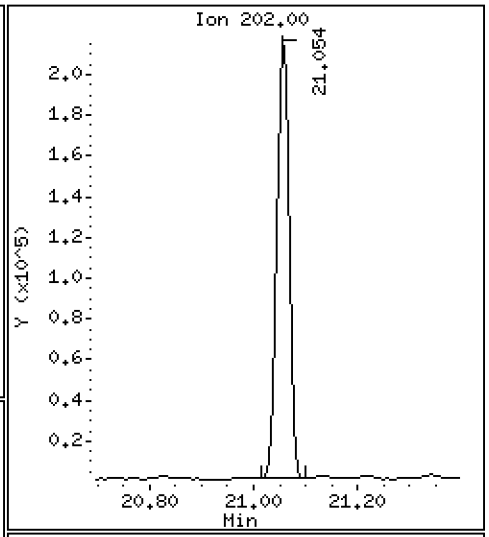
Concentration: 1.161 ug/mL

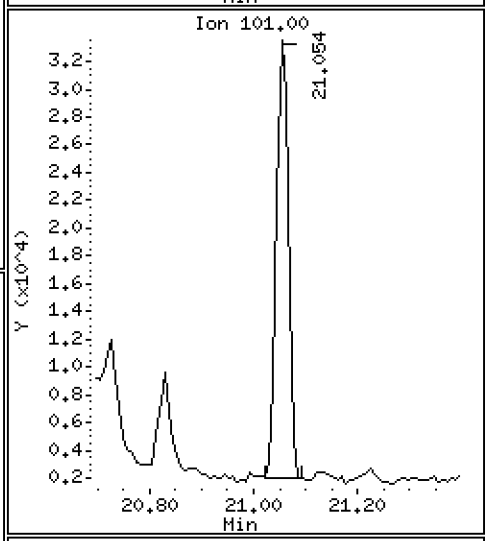


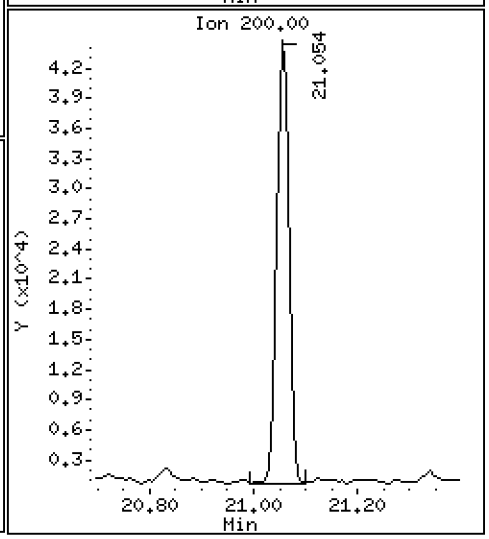












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Date : 21-MAR-2023 23:35

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-02

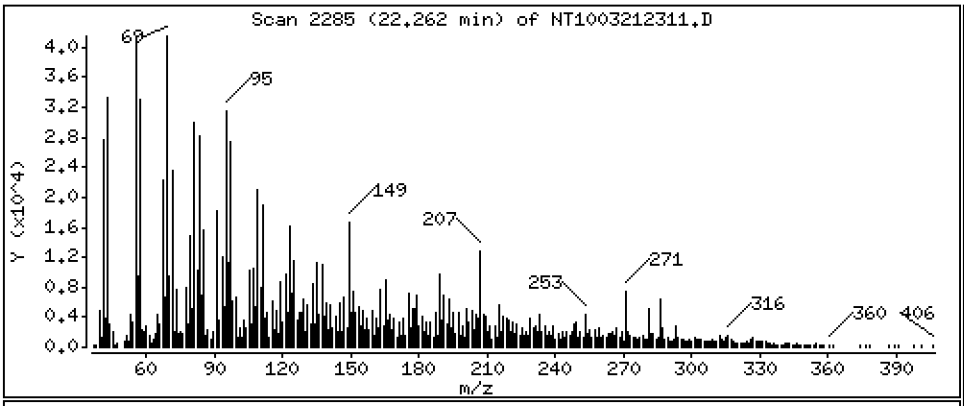
Operator: VTS

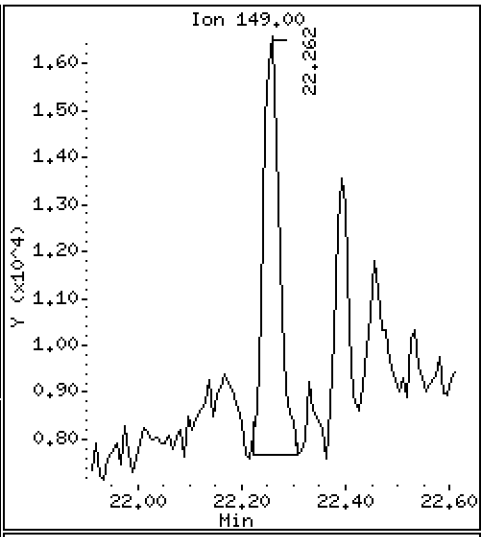
Column phase: ZB-5msi

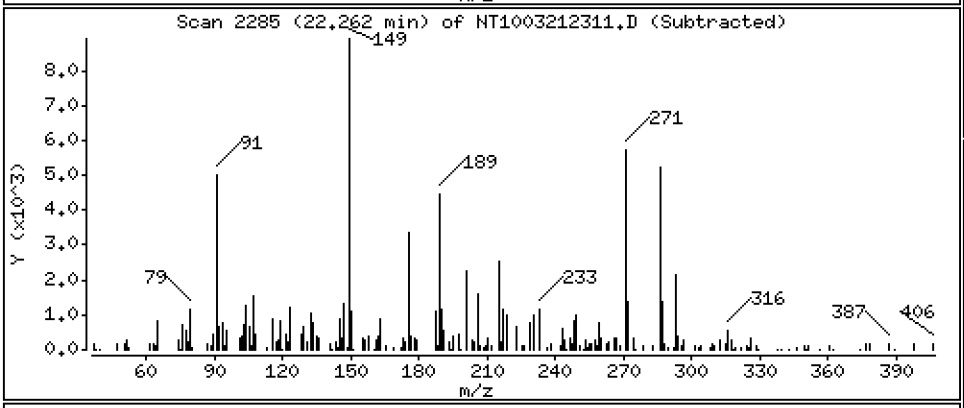
Column diameter: 0.25

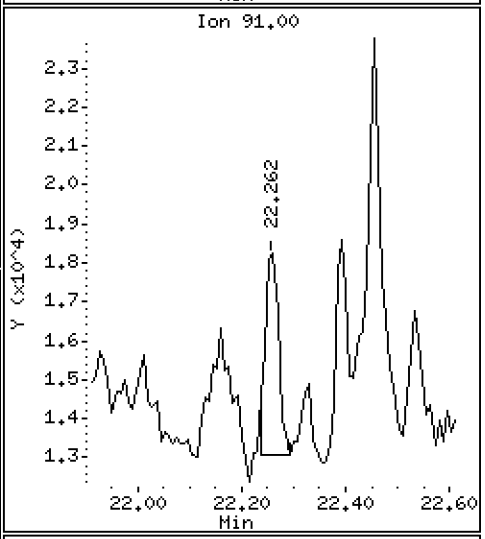
67 Butylbenzylphthalate

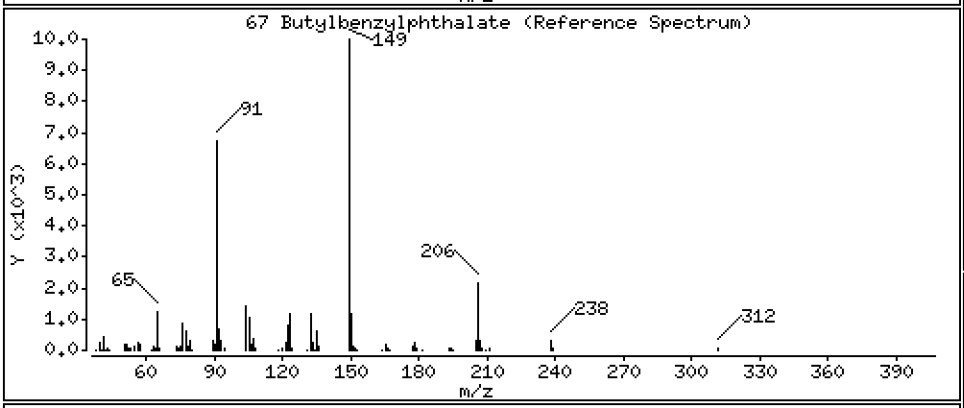
Concentration: 0.1842 ug/mL

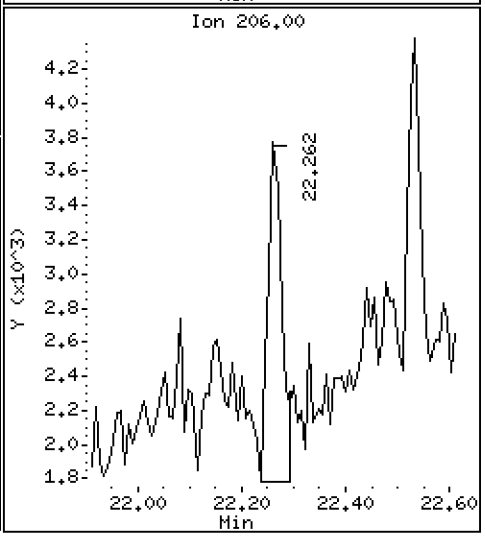


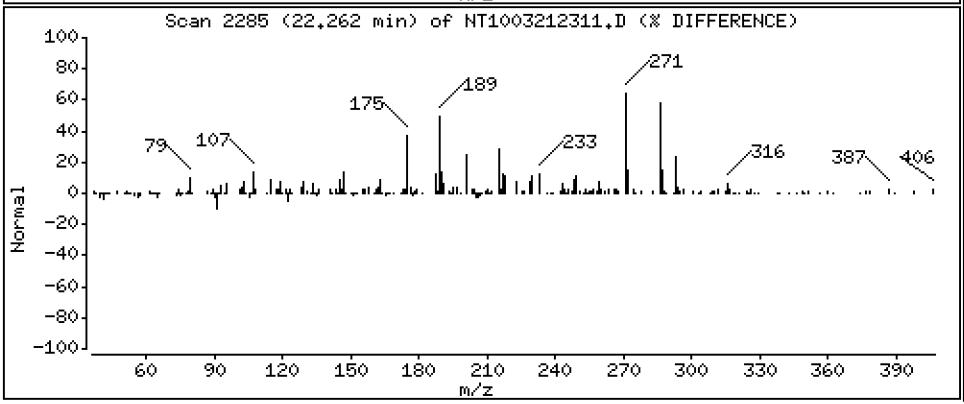












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Date : 21-MAR-2023 23:35

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-02

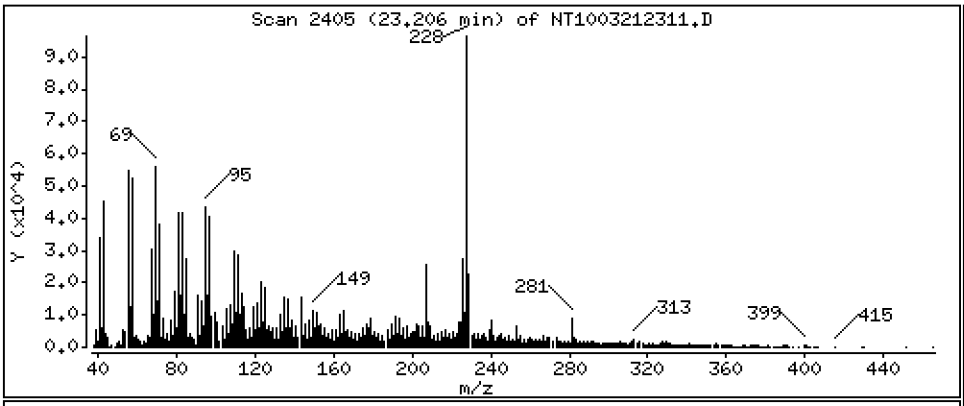
Operator: VTS

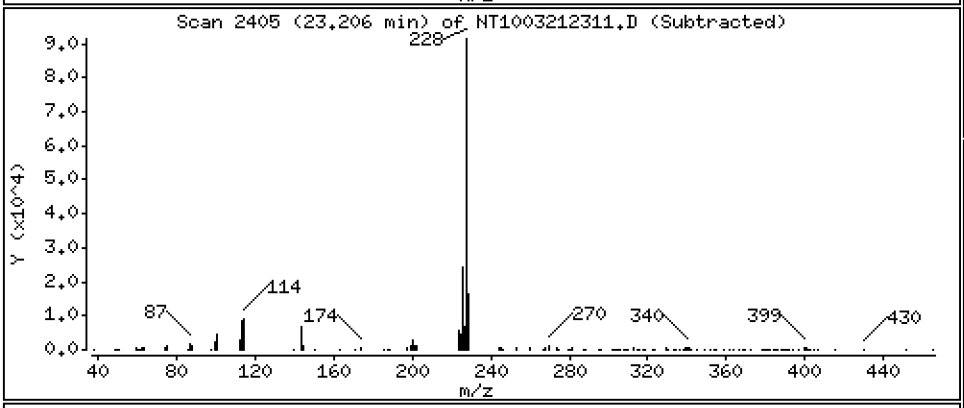
Column phase: ZB-5msi

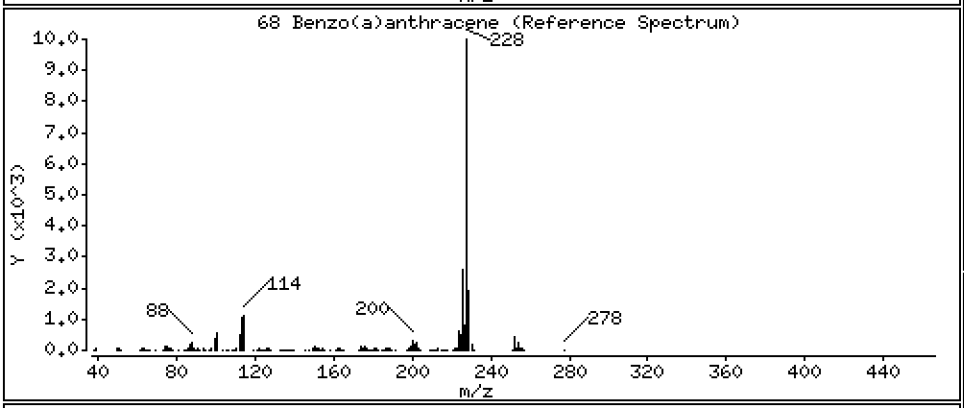
Column diameter: 0.25

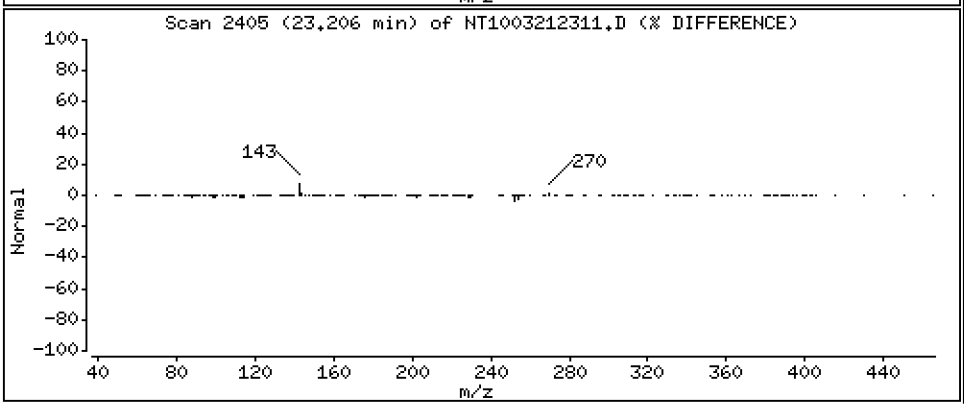
68 Benzo(a)anthracene

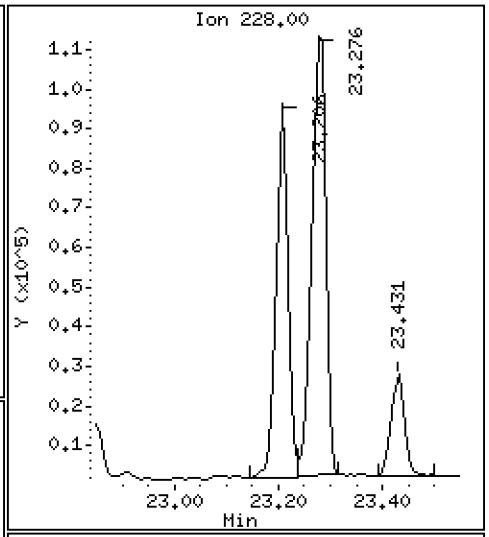
Concentration: 0.5945 ug/mL

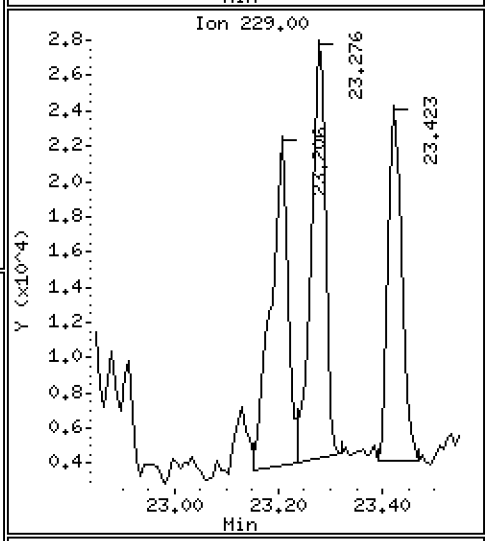


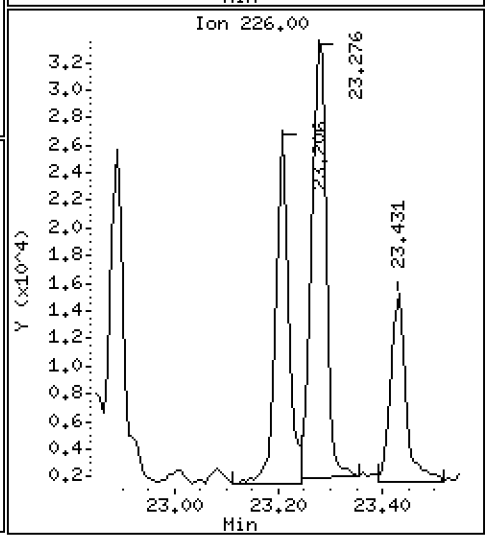












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Date : 21-MAR-2023 23:35

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-02

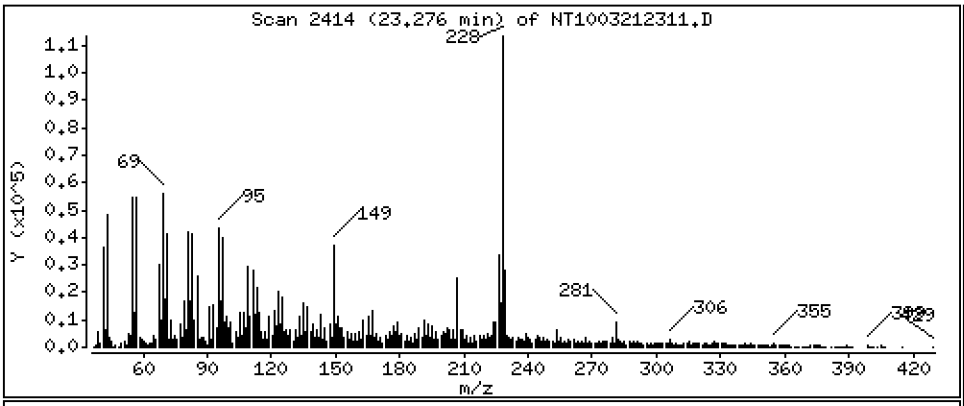
Operator: VTS

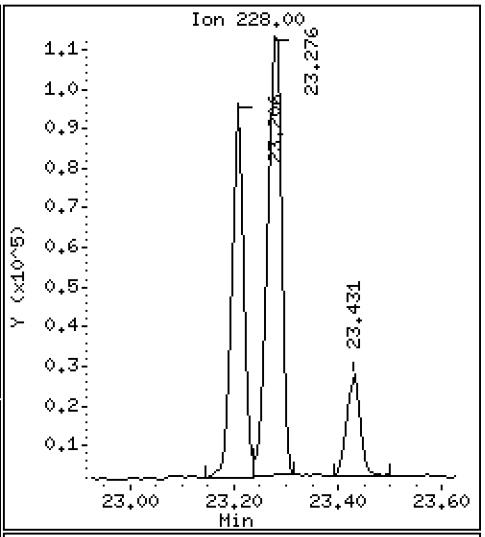
Column phase: ZB-5msi

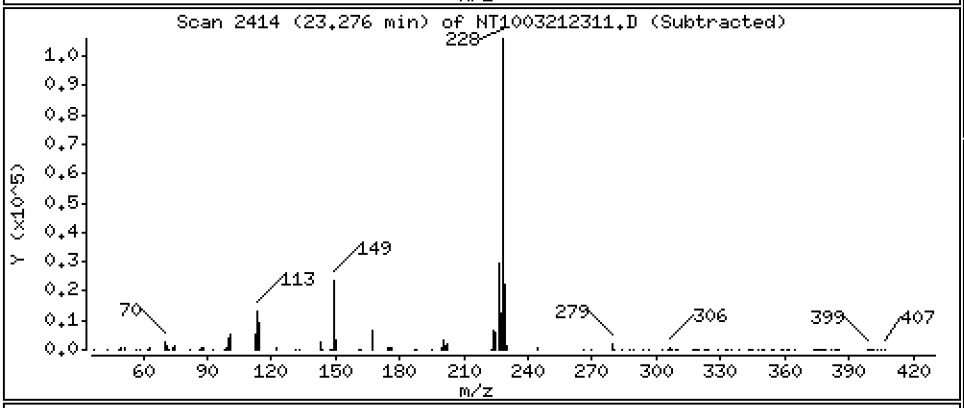
Column diameter: 0.25

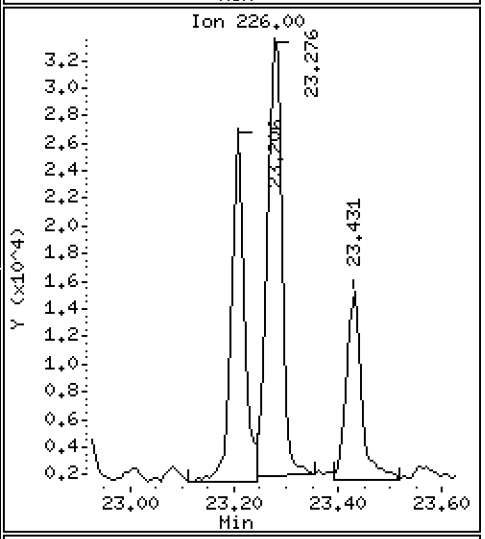
71 Chrysene

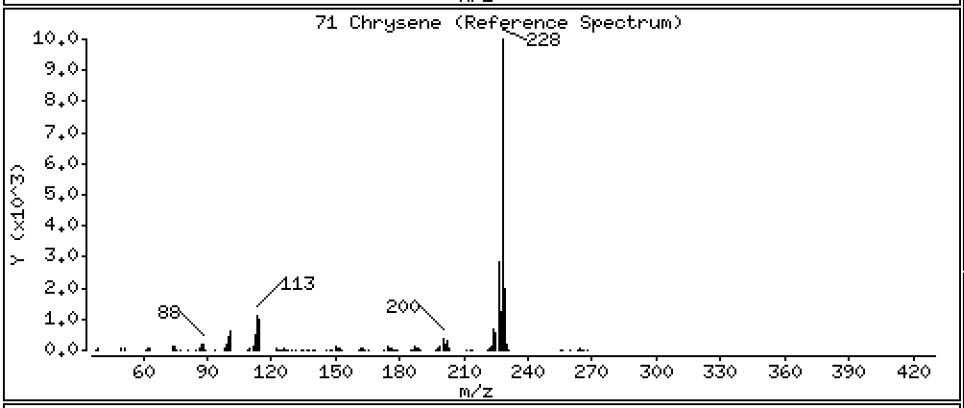
Concentration: 0.8298 ug/mL

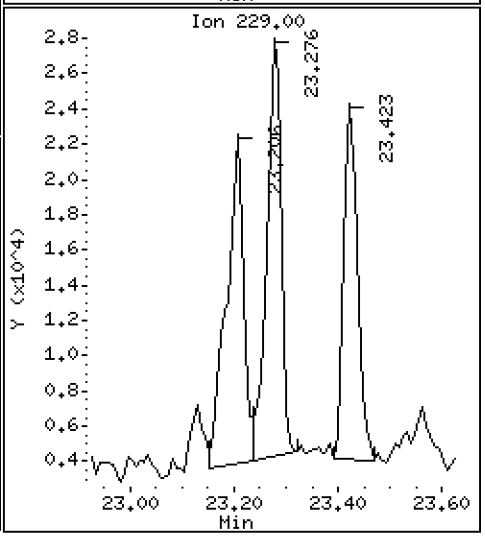


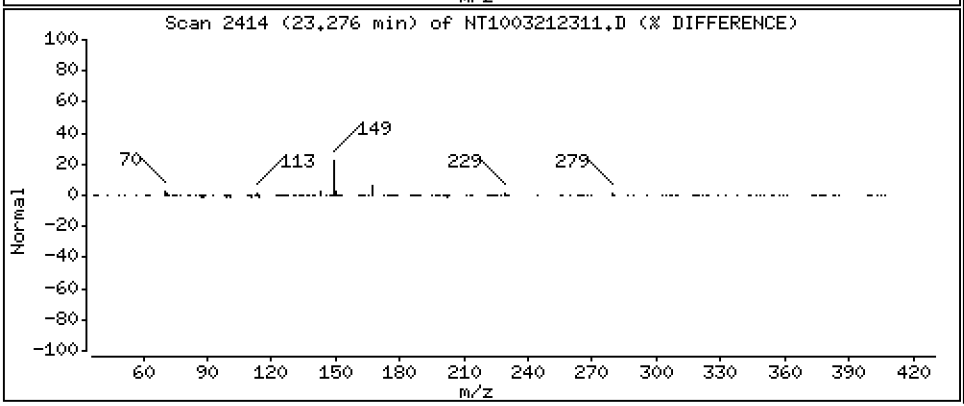












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Date : 21-MAR-2023 23:35

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-02

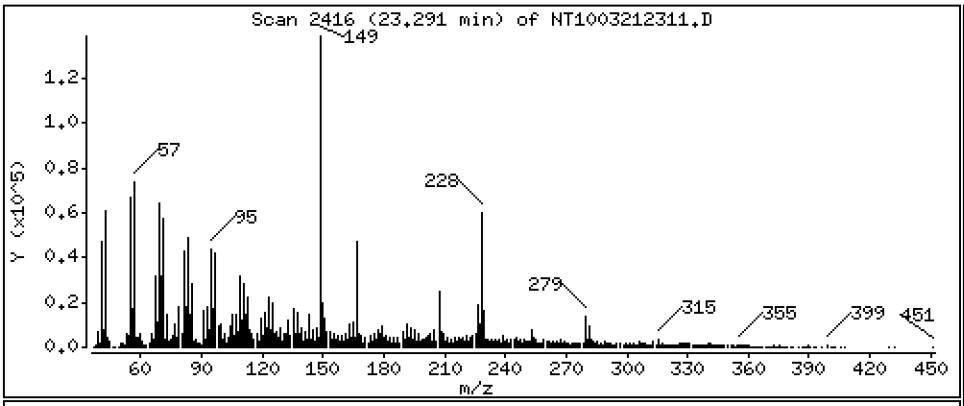
Operator: VTS

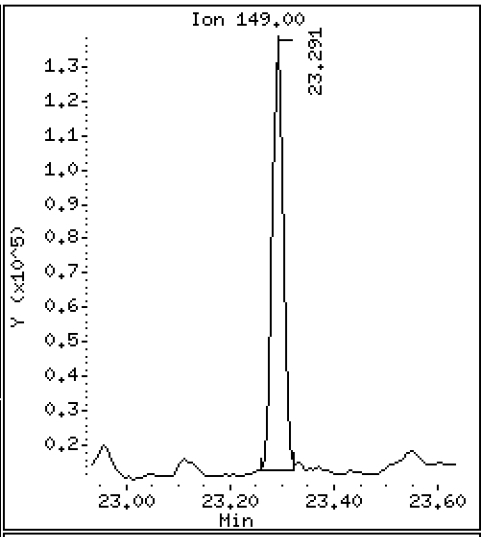
Column phase: ZB-5msi

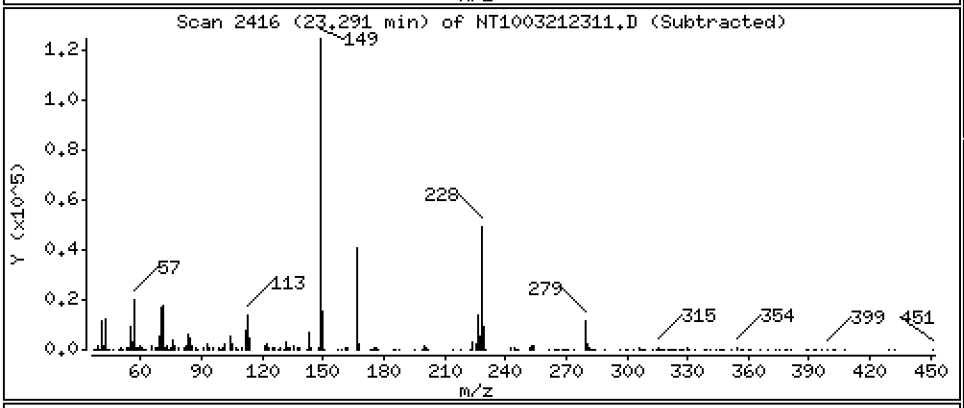
Column diameter: 0.25

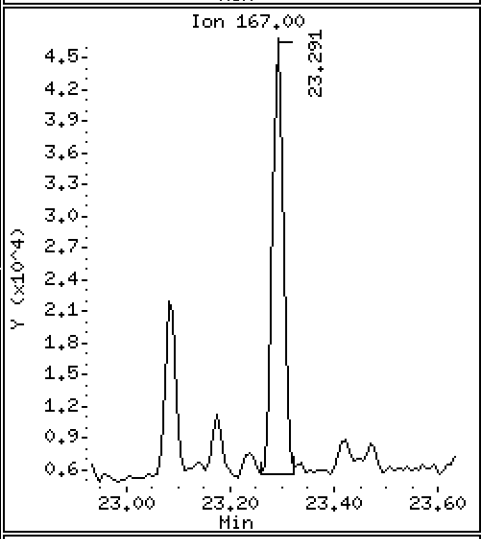
72 bis(2-Ethylhexyl)phthalate

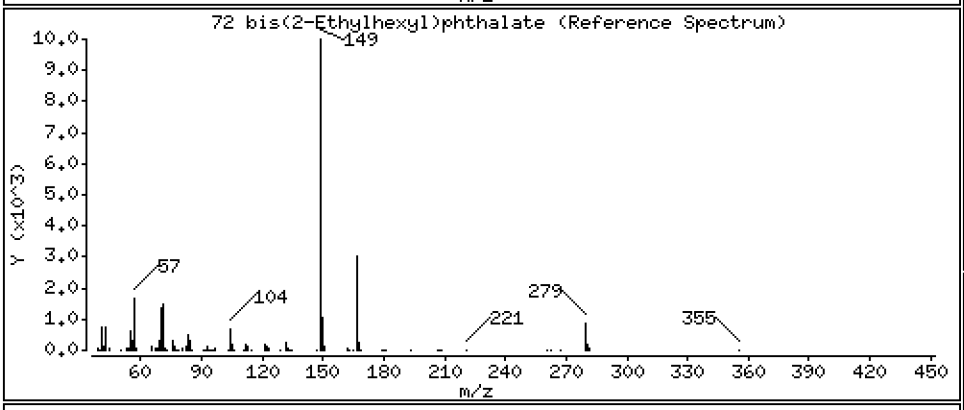
Concentration: 0.9962 ug/mL

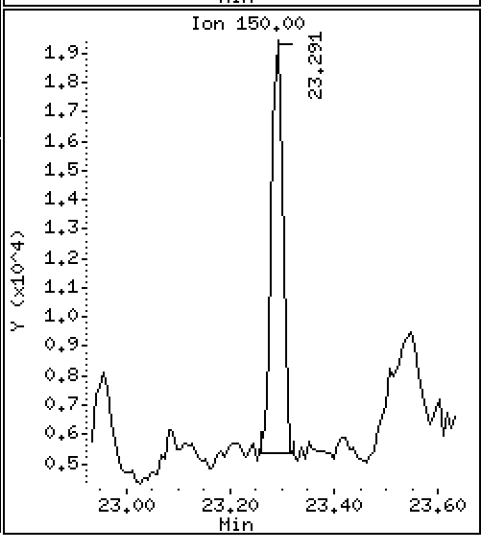


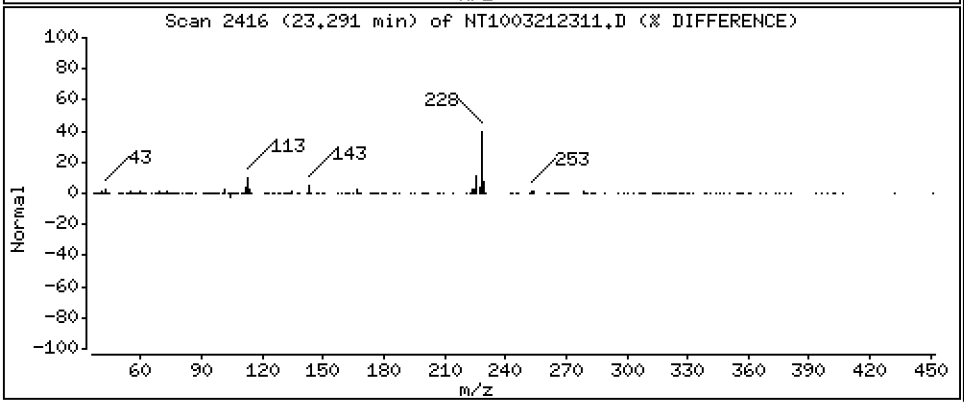












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Date : 21-MAR-2023 23:35

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-02

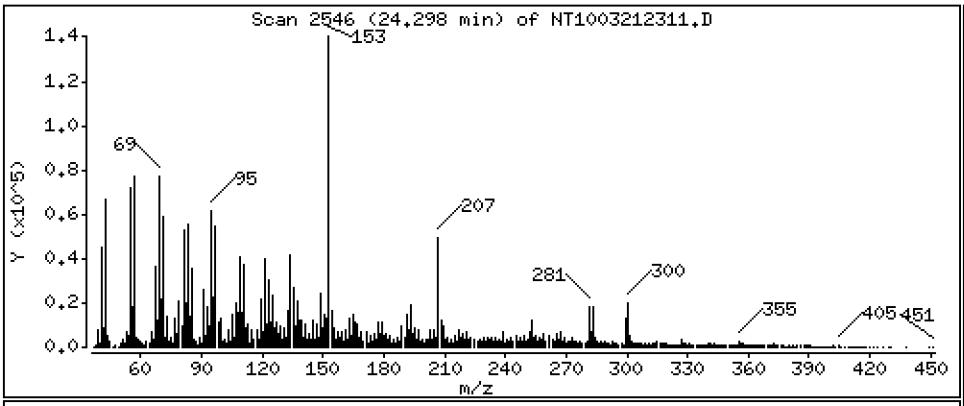
Operator: VTS

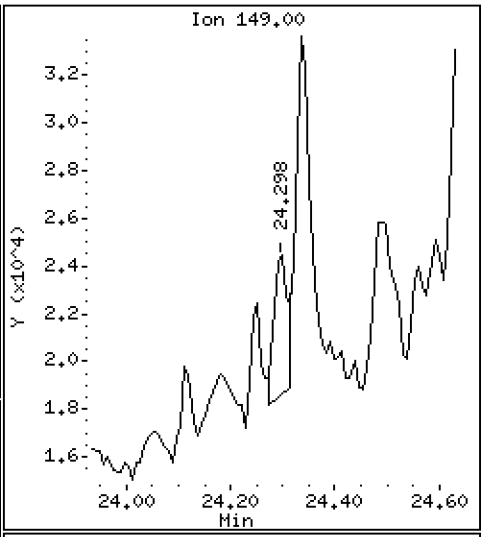
Column phase: ZB-5msi

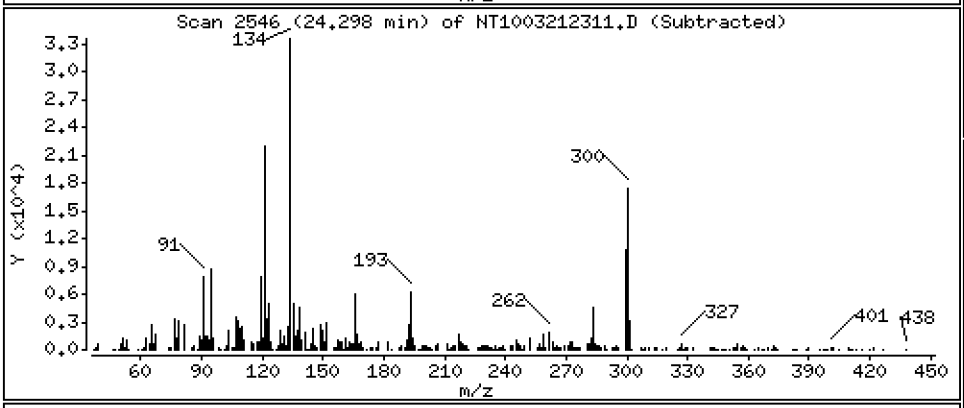
Column diameter: 0.25

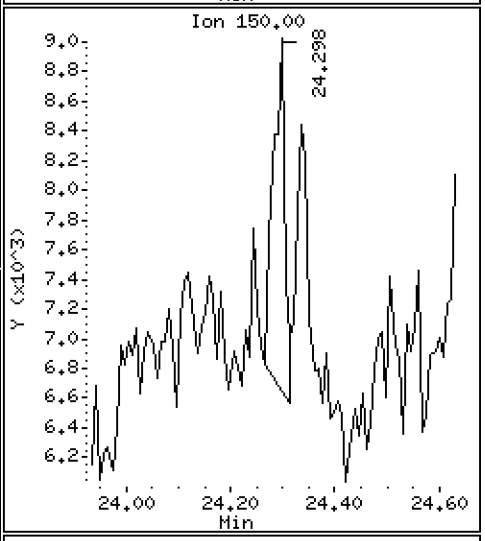
73 Di-n-octylphthalate

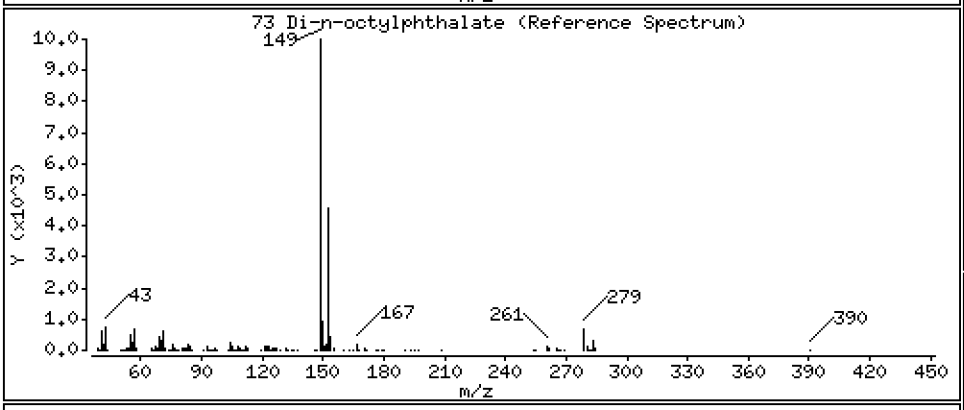
Concentration: 0.03662 ug/mL

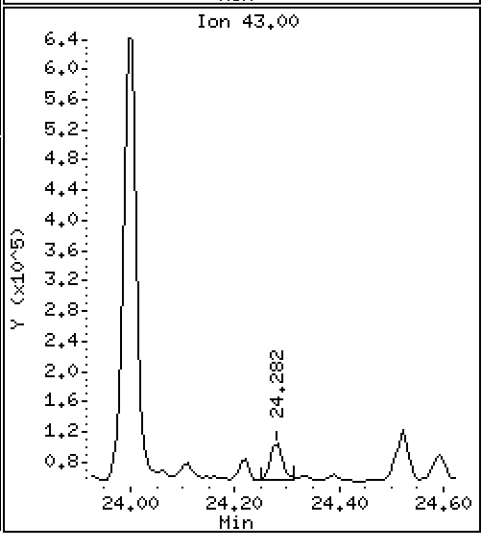


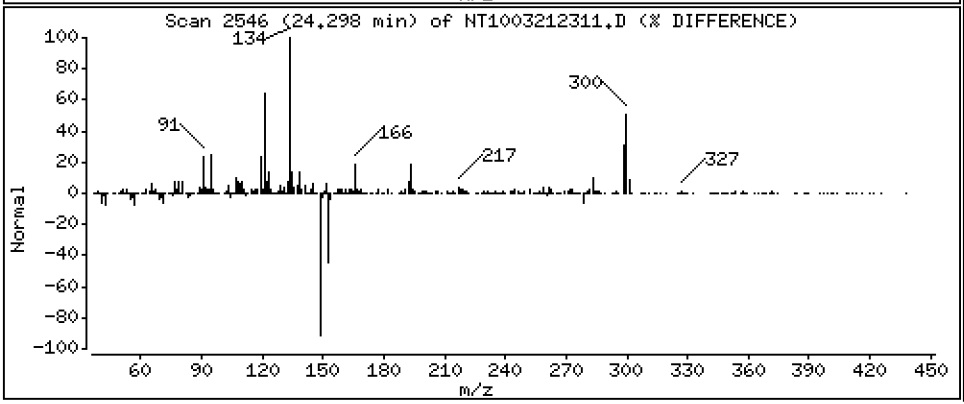












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Date : 21-MAR-2023 23:35

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-02

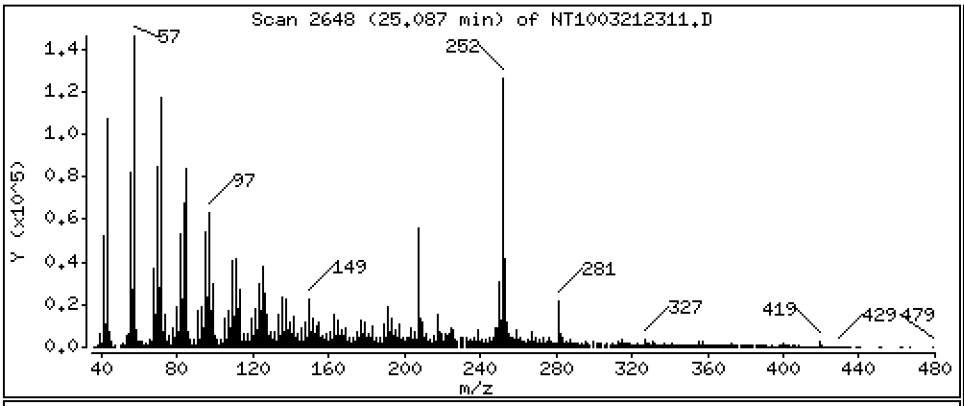
Operator: VTS

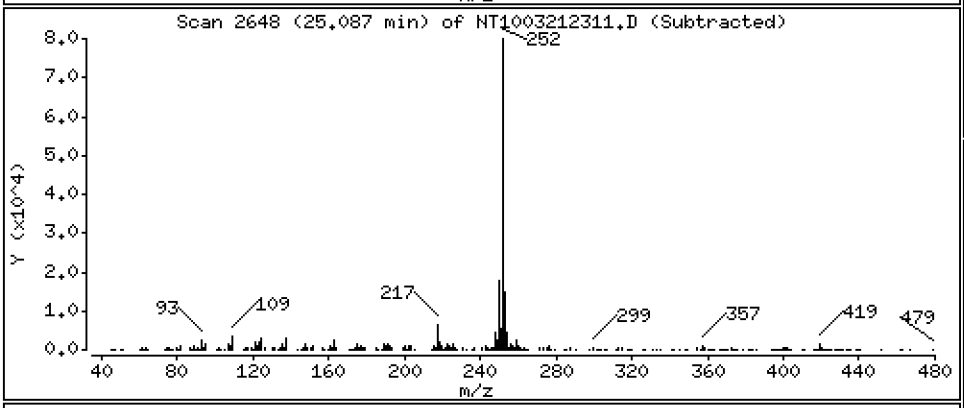
Column phase: ZB-5msi

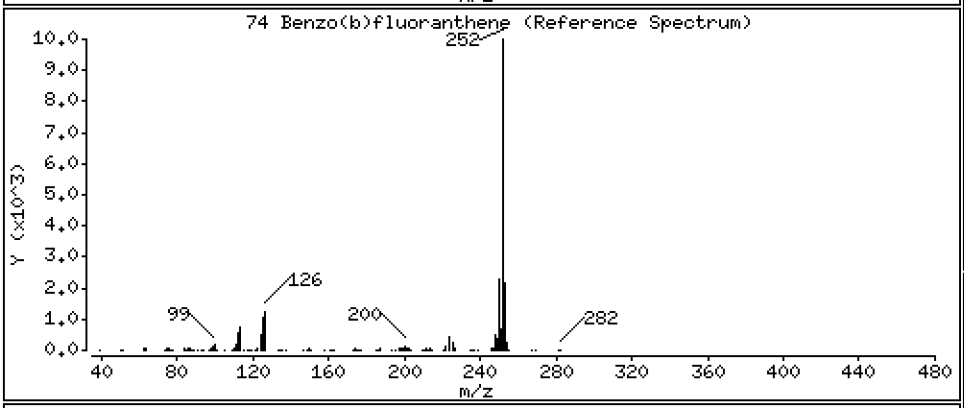
Column diameter: 0.25

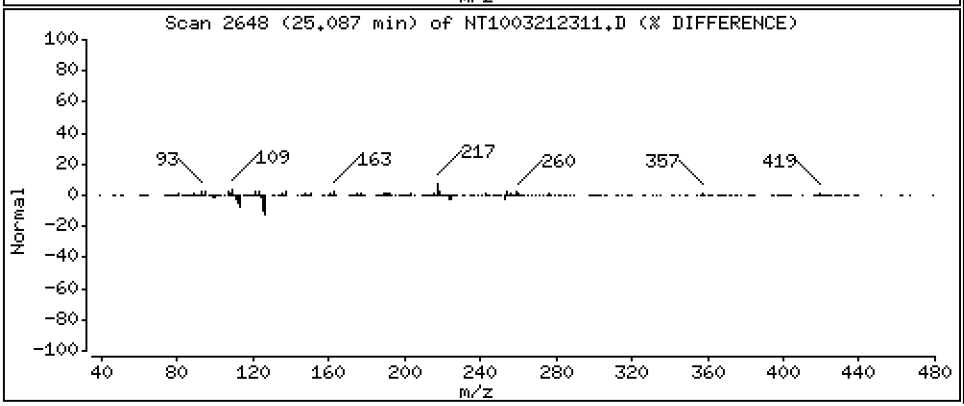
74 Benzo(b)fluoranthene

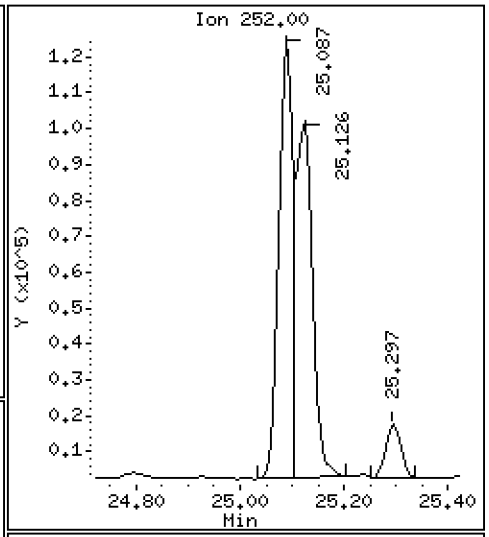
Concentration: 0.8661 ug/mL

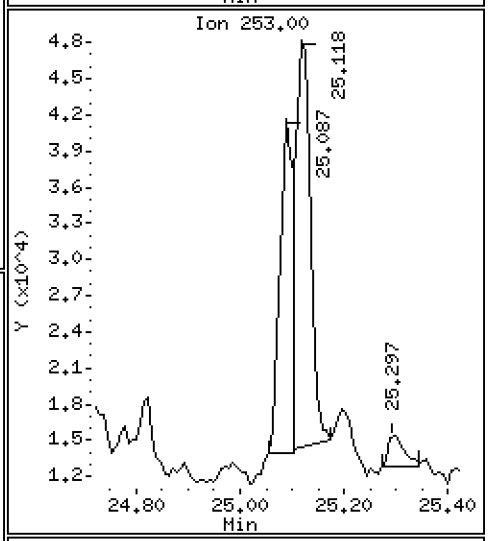


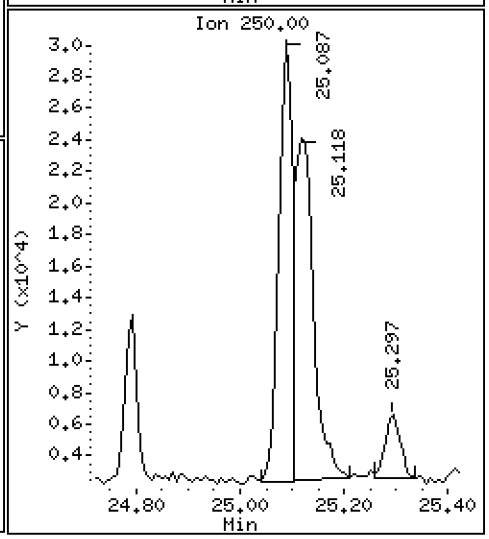












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Date : 21-MAR-2023 23:35

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-02

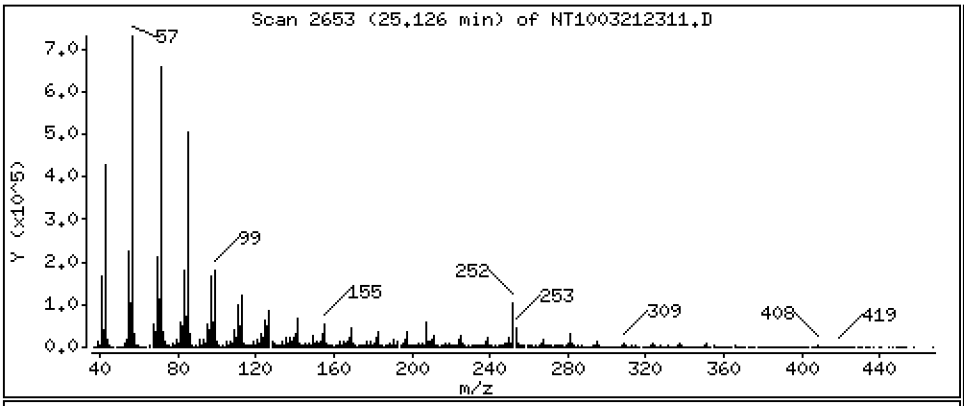
Operator: VTS

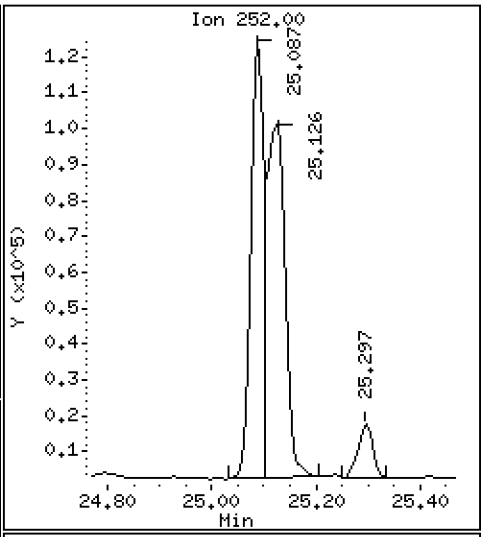
Column phase: ZB-5msi

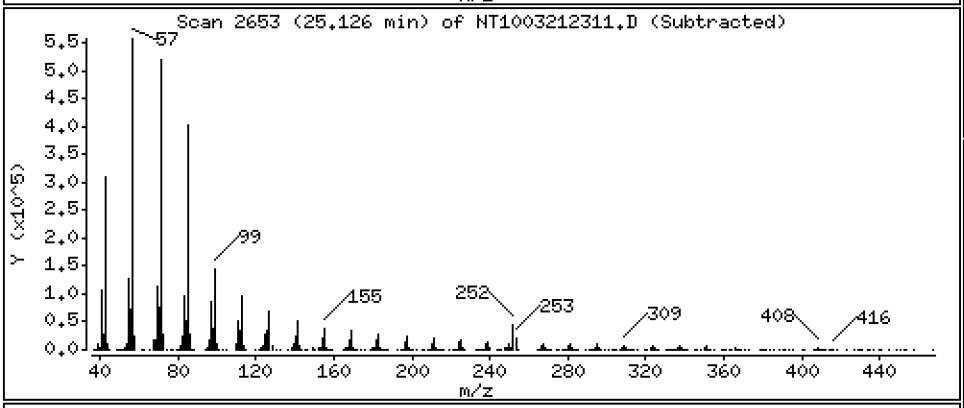
Column diameter: 0.25

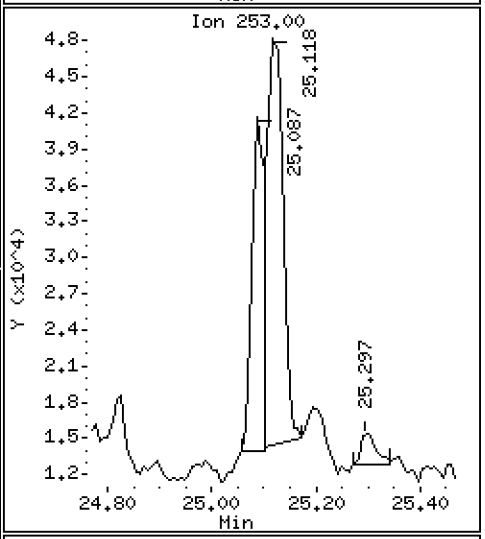
75 Benzo(k)fluoranthene

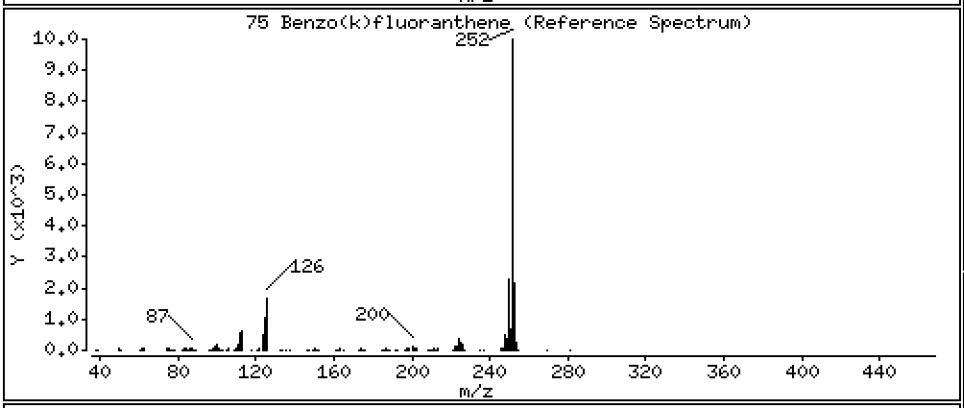
Concentration: 0.9366 ug/mL

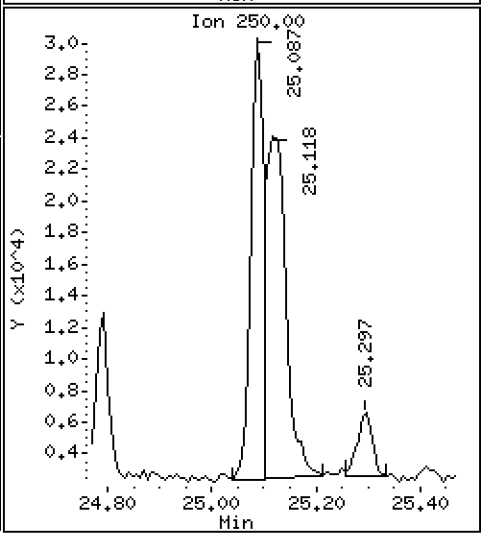


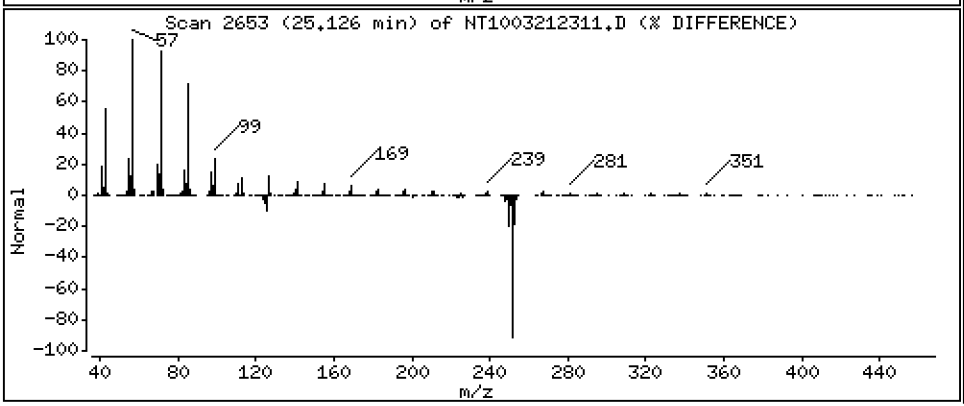












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Date : 21-MAR-2023 23:35

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-02

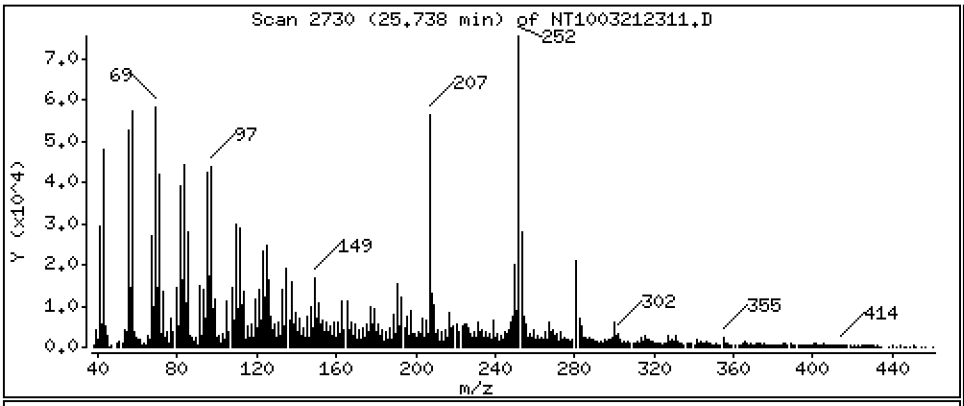
Operator: VTS

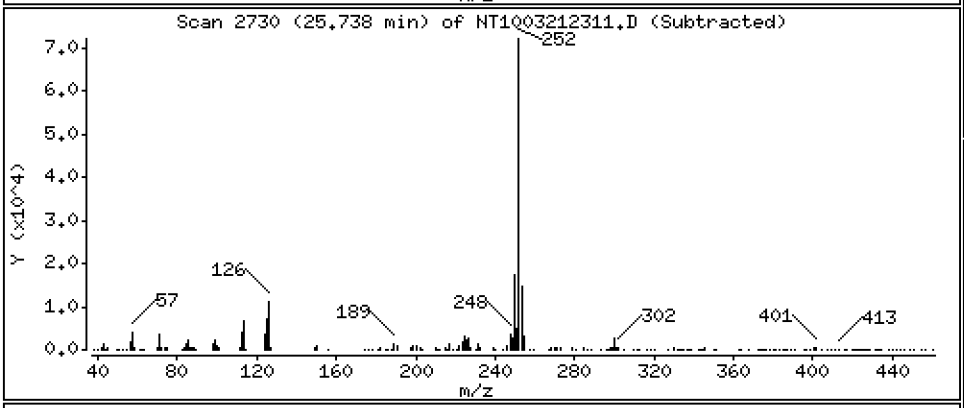
Column phase: ZB-5msi

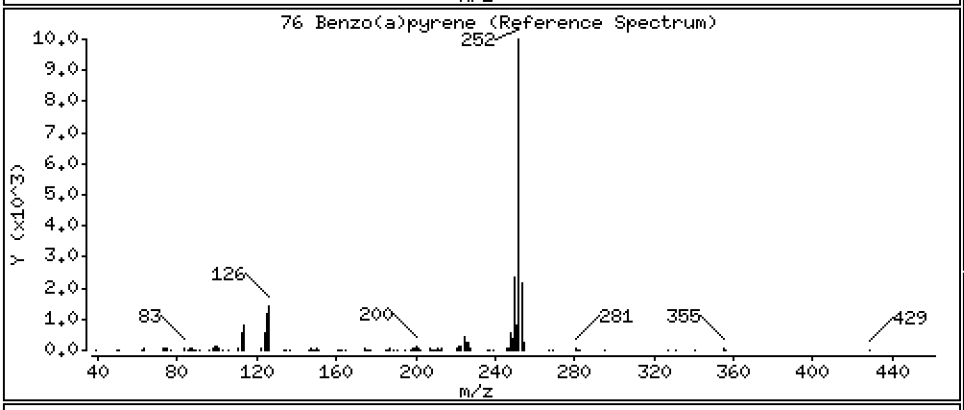
Column diameter: 0.25

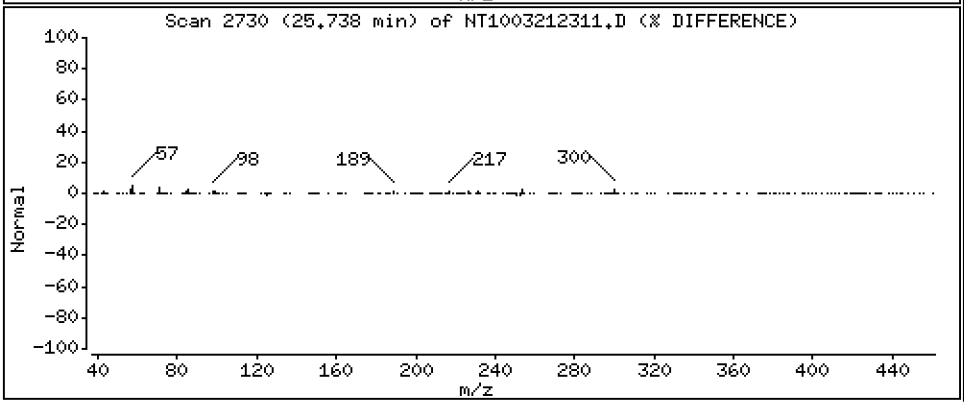
76 Benzo(a)pyrene

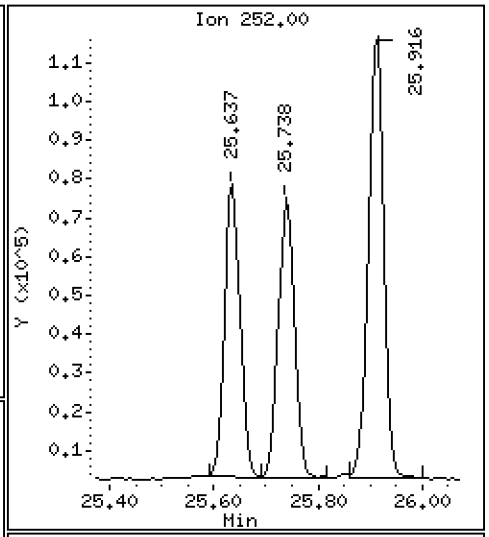
Concentration: 0.6608 ug/mL

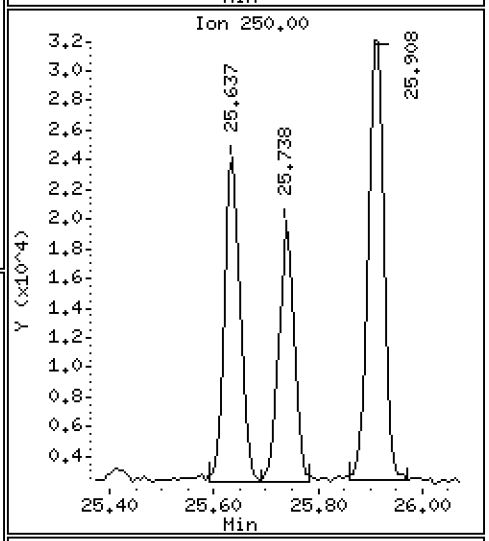


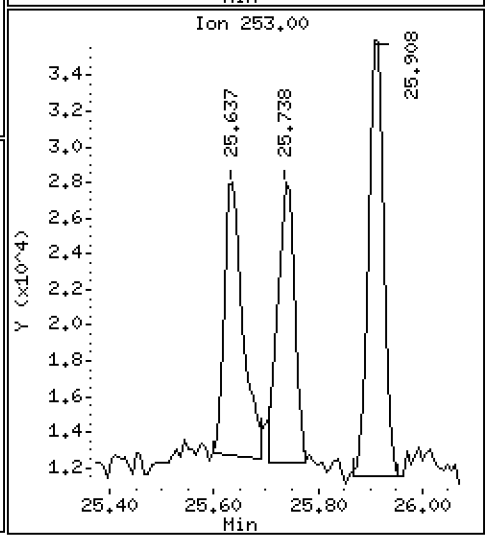












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212311.D

Date : 21-MAR-2023 23:35

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-02

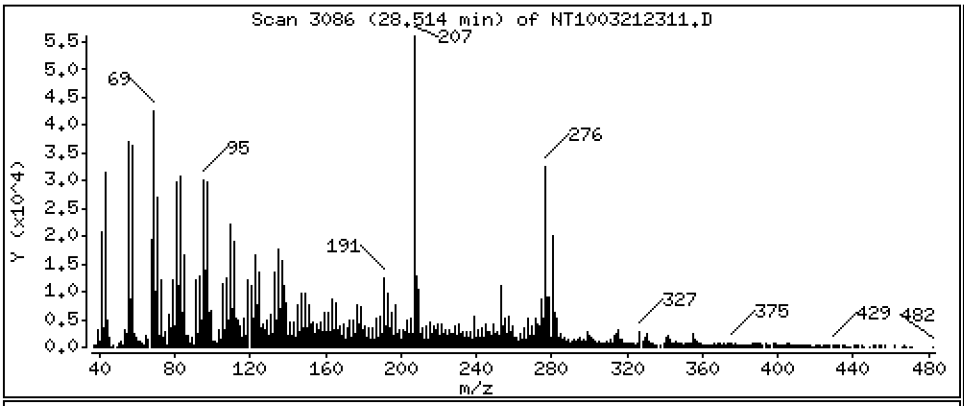
Operator: VTS

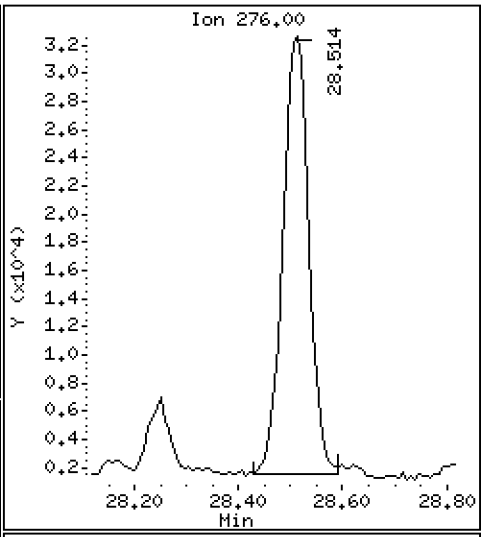
Column phase: ZB-5msi

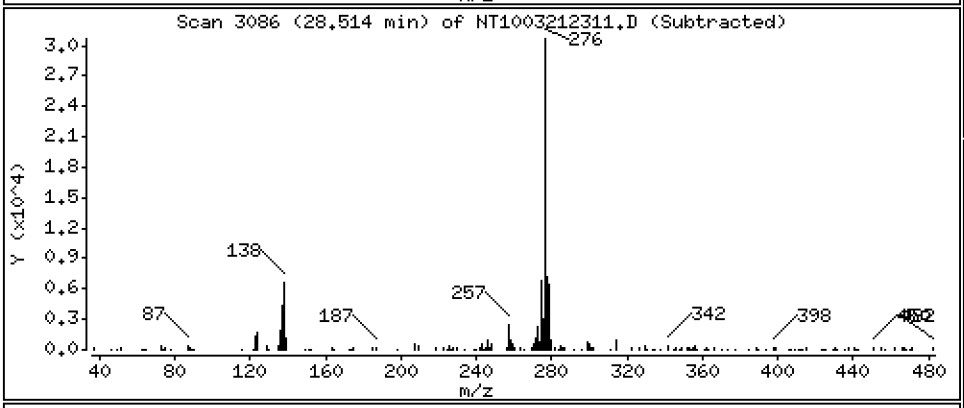
Column diameter: 0.25

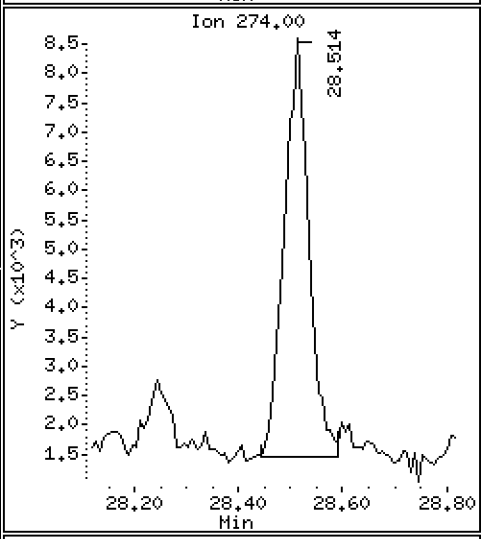
78 Indeno(1,2,3-cd)pyrene

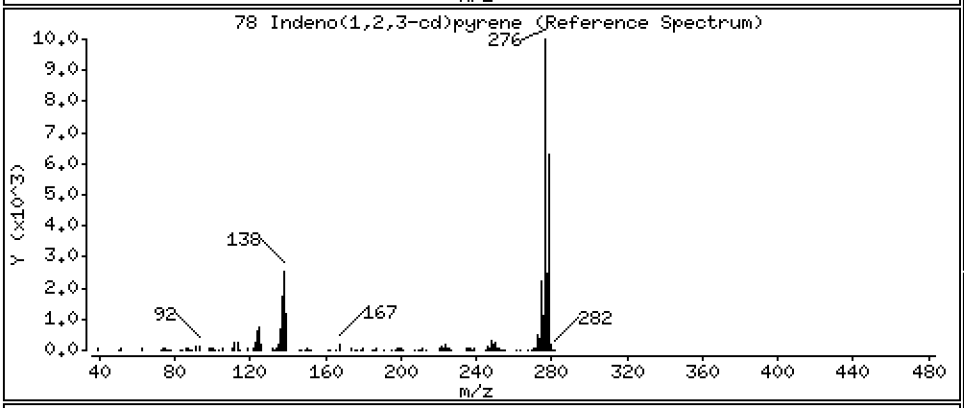
Concentration: 0.3697 ug/mL

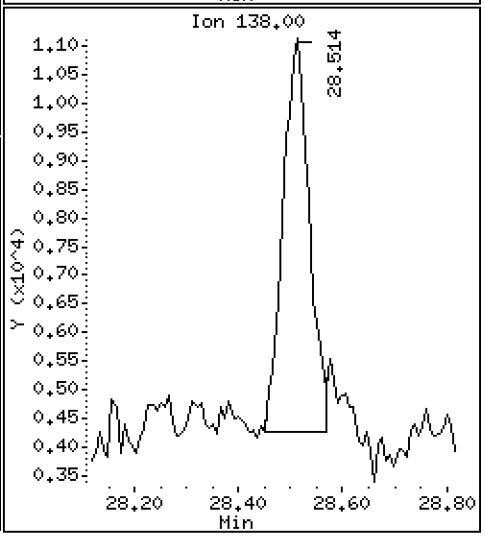


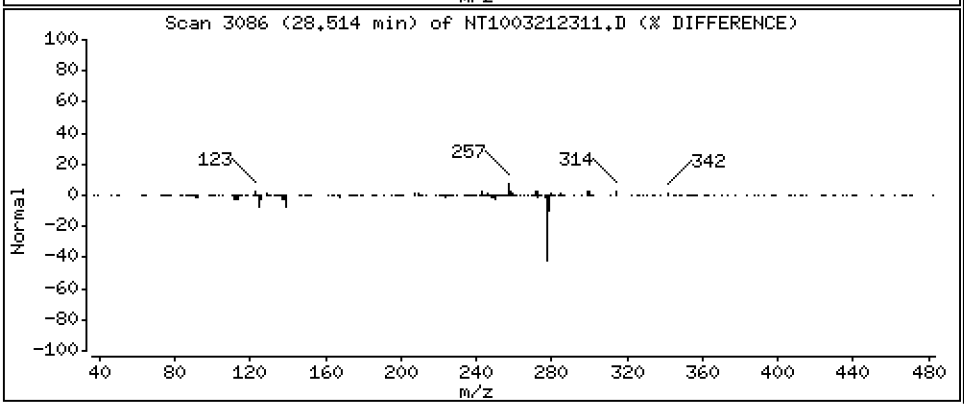












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Date : 21-MAR-2023 23:35

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-02

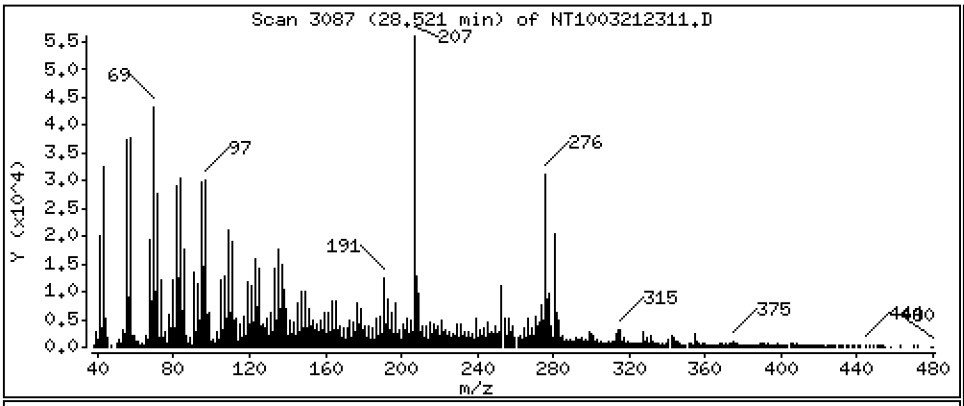
Operator: VTS

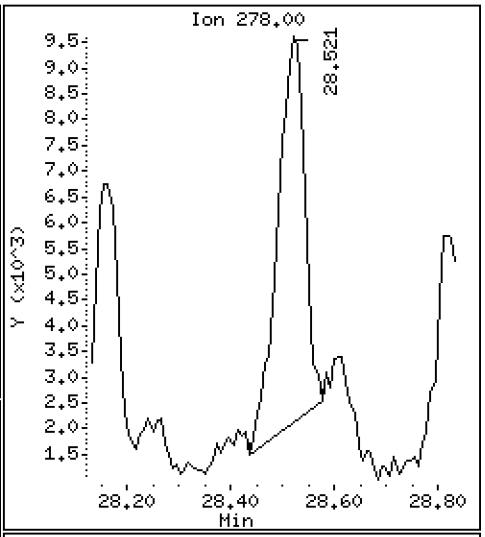
Column phase: ZB-5msi

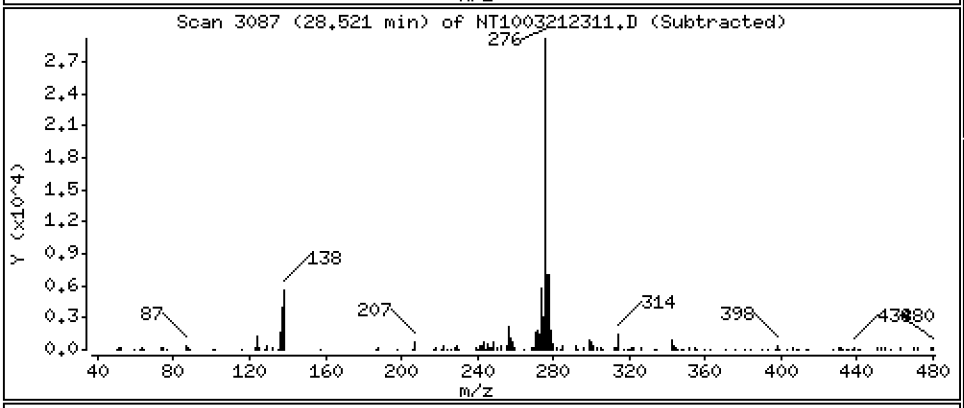
Column diameter: 0.25

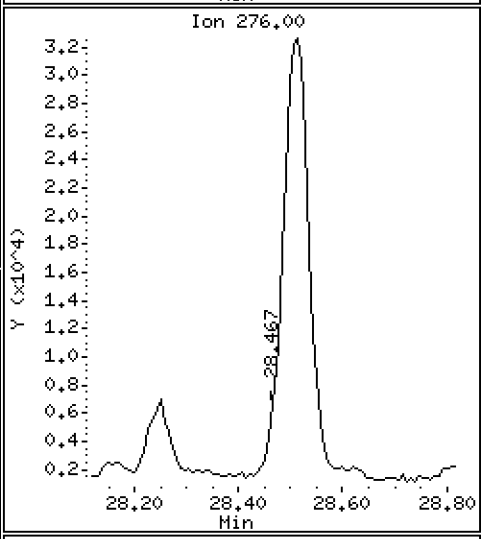
79 Dibenzo(a,h)anthracene

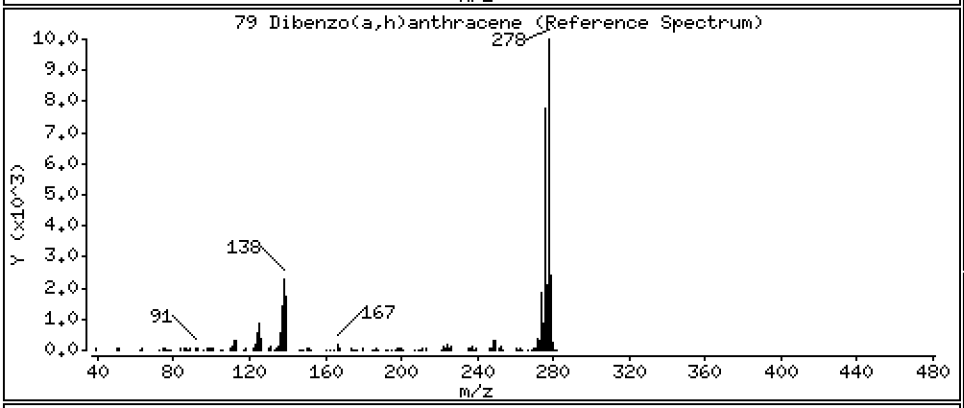
Concentration: 0.1132 ug/mL

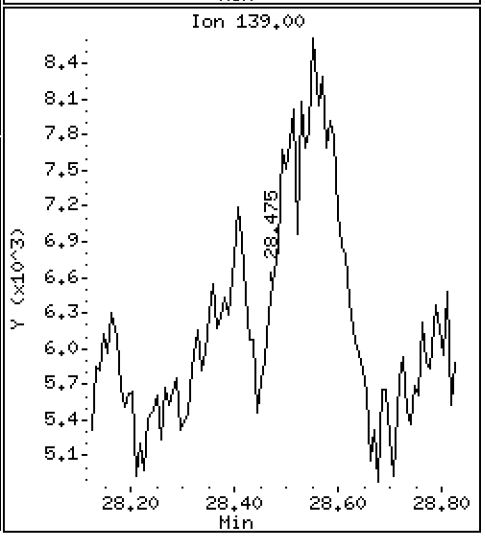


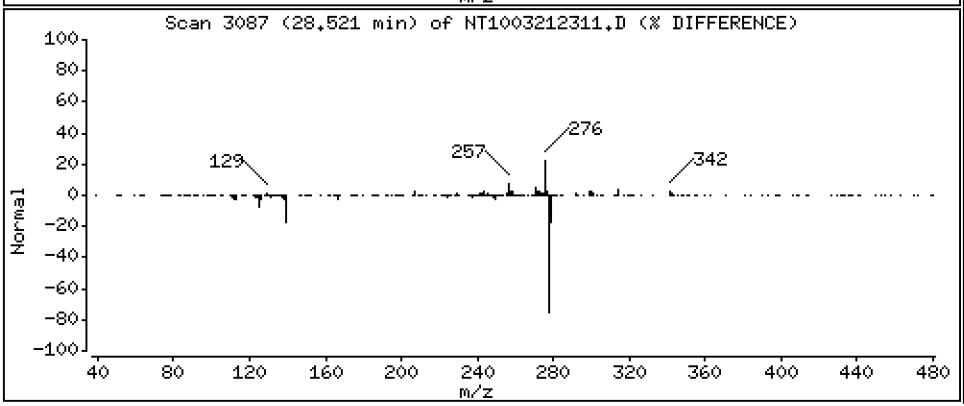












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Date : 21-MAR-2023 23:35

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-02

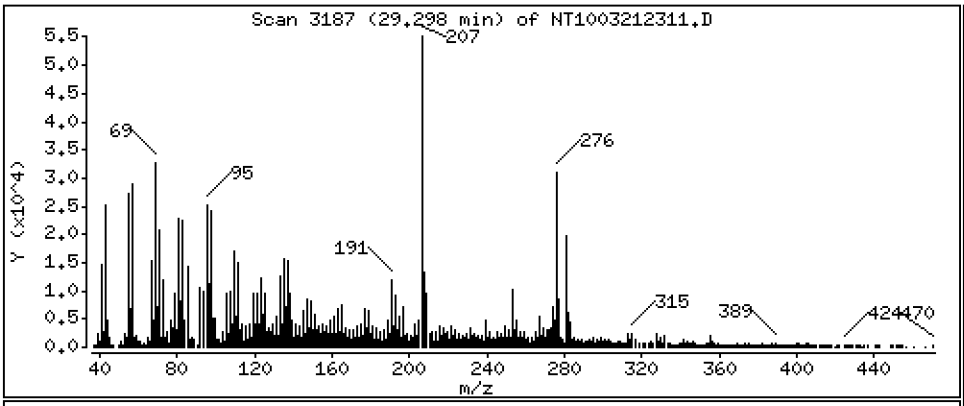
Operator: VTS

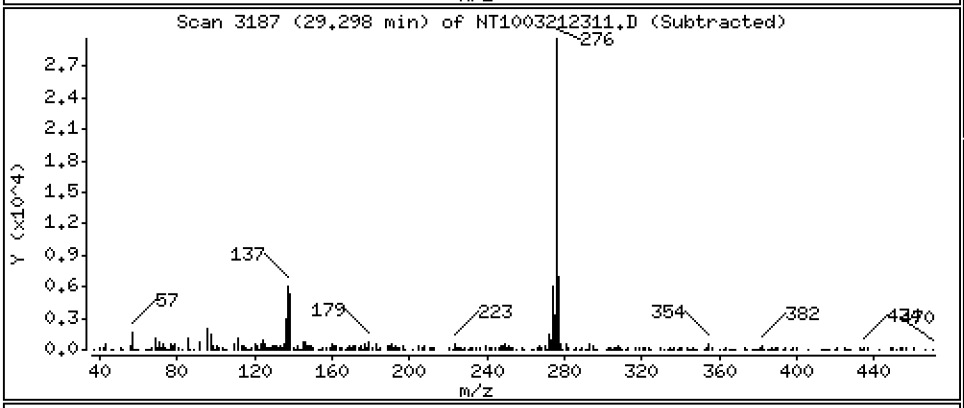
Column phase: ZB-5msi

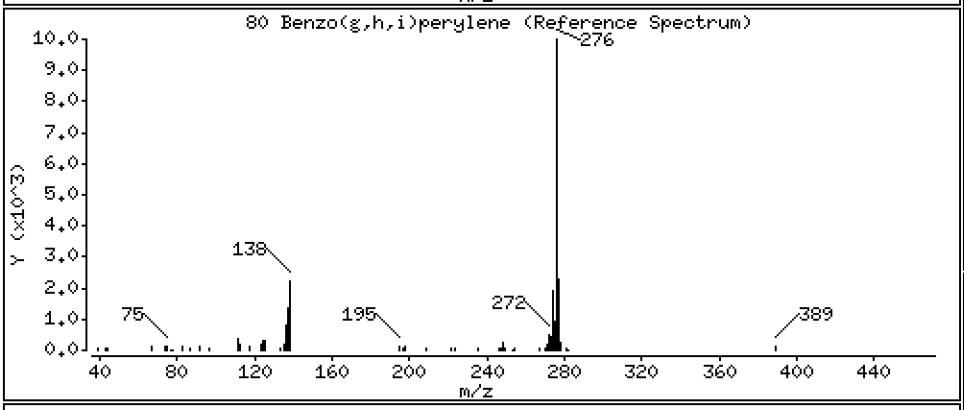
Column diameter: 0.25

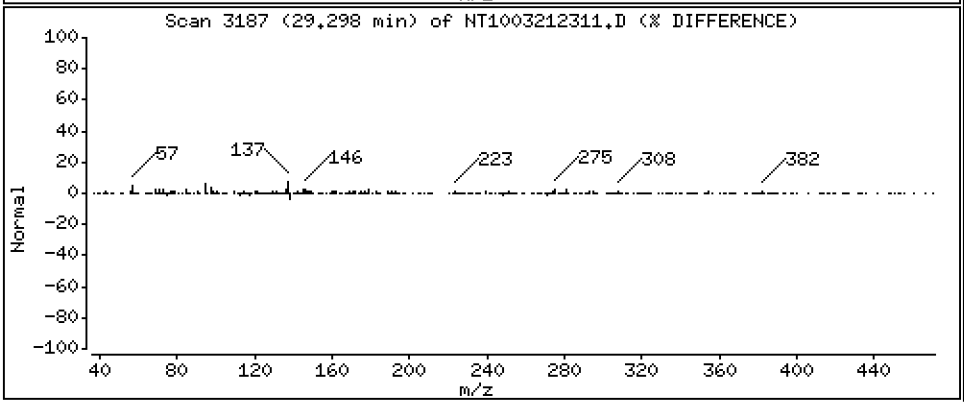
80 Benzo(g,h,i)perylene

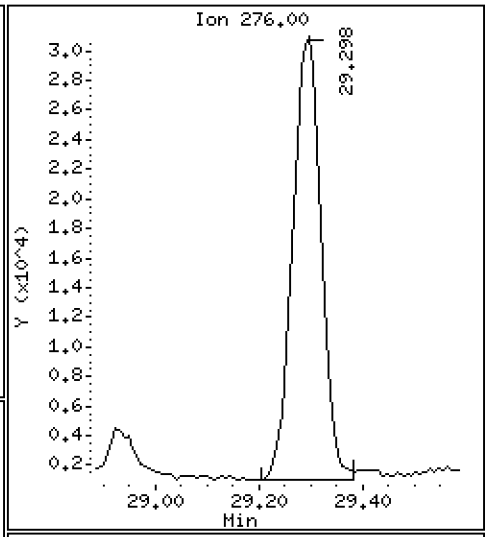
Concentration: 0.4453 ug/mL

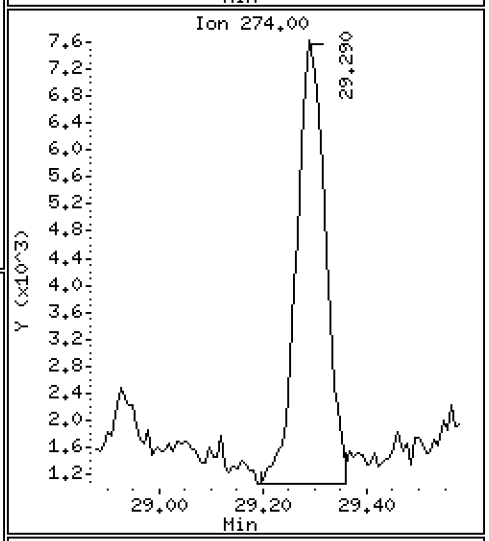


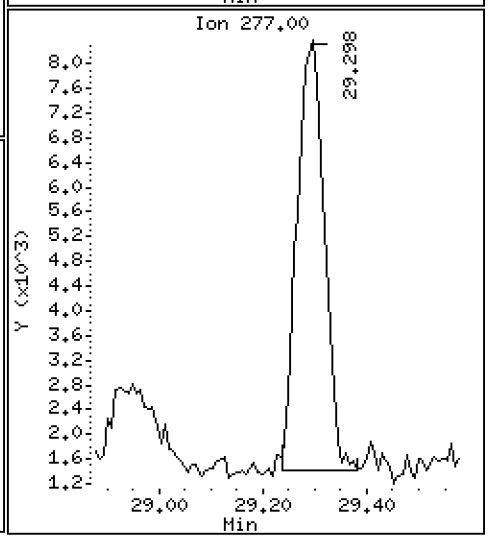












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Date : 21-MAR-2023 23:35

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-02

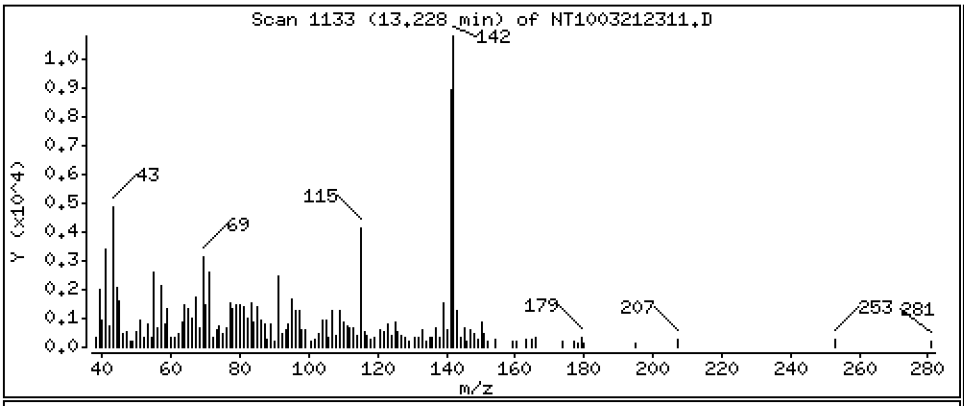
Operator: VTS

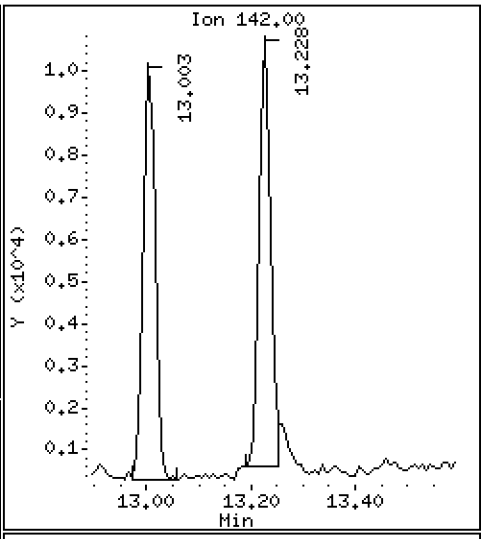
Column phase: ZB-5msi

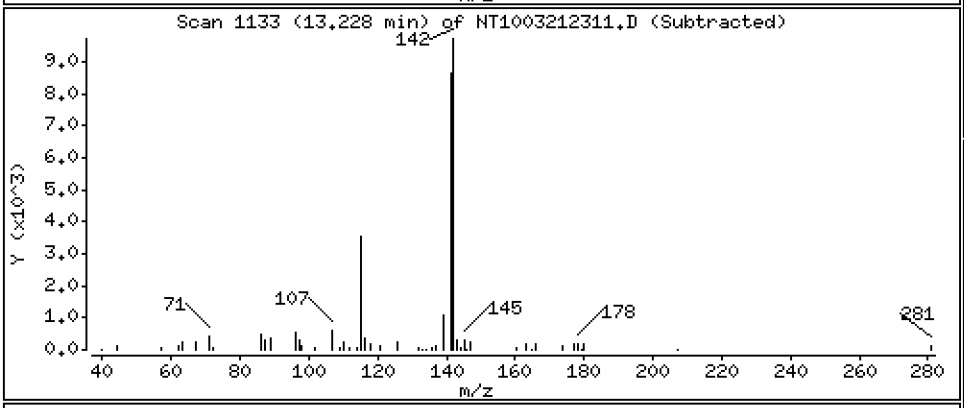
Column diameter: 0.25

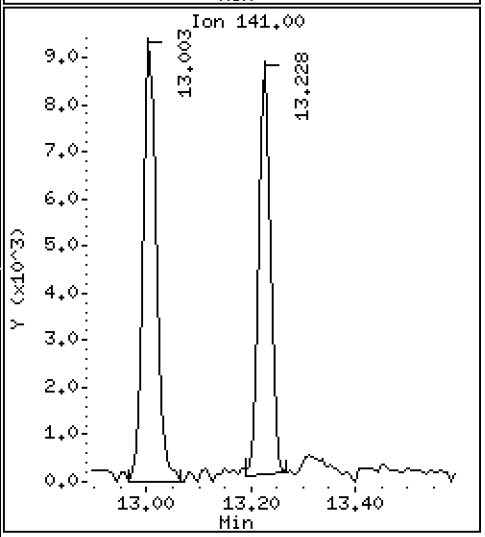
105 1-methylnaphthalene

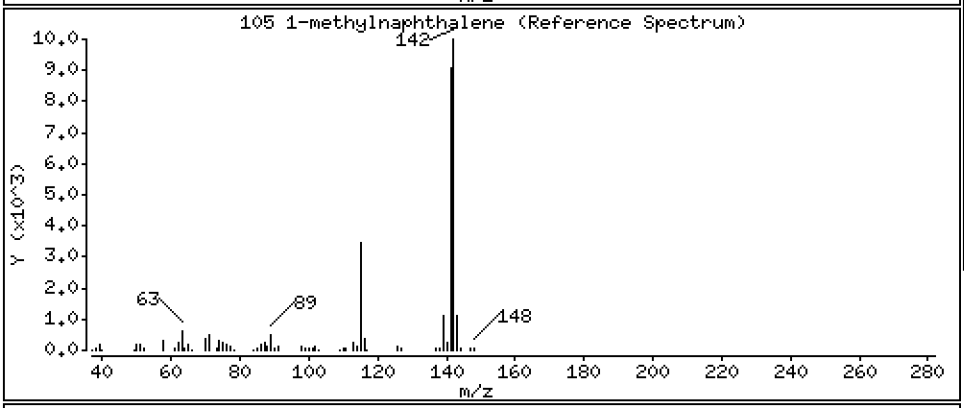
Concentration: 0.1165 ug/mL

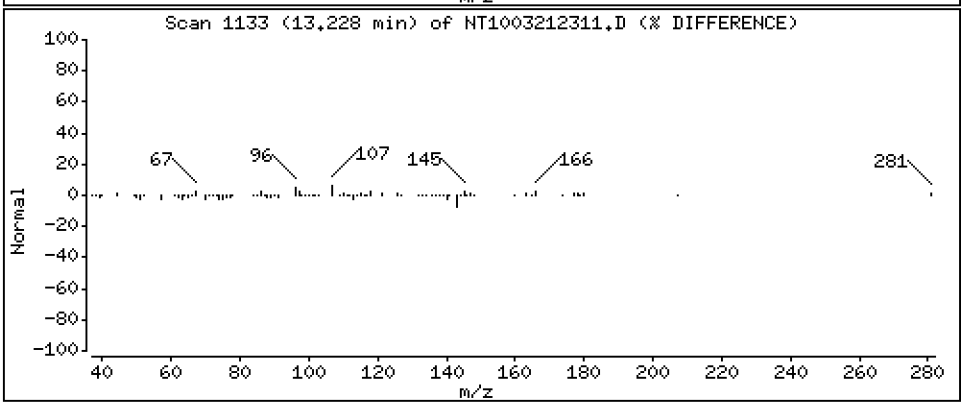












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Date : 21-MAR-2023 23:35

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-02

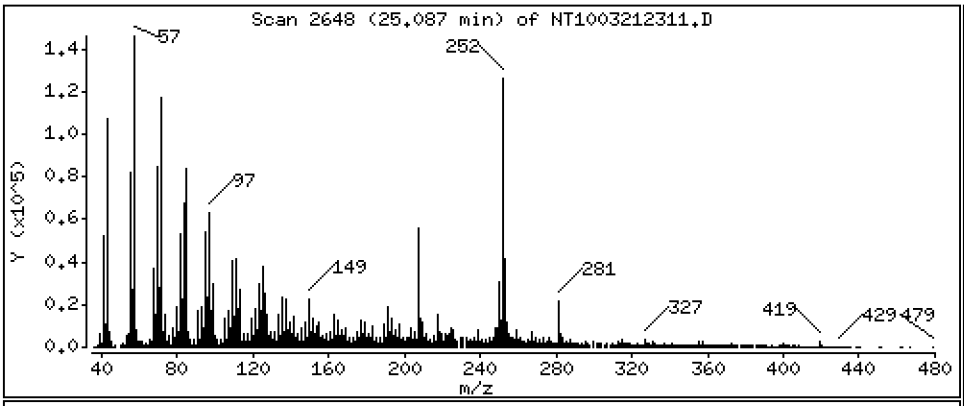
Operator: VTS

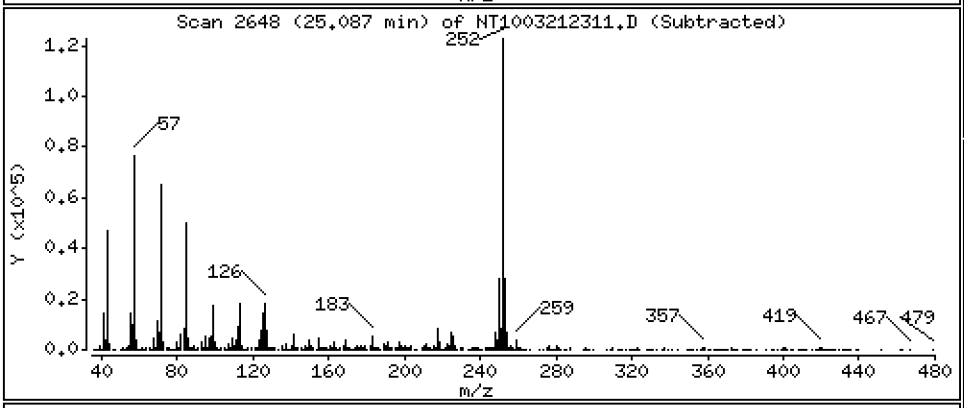
Column phase: ZB-5msi

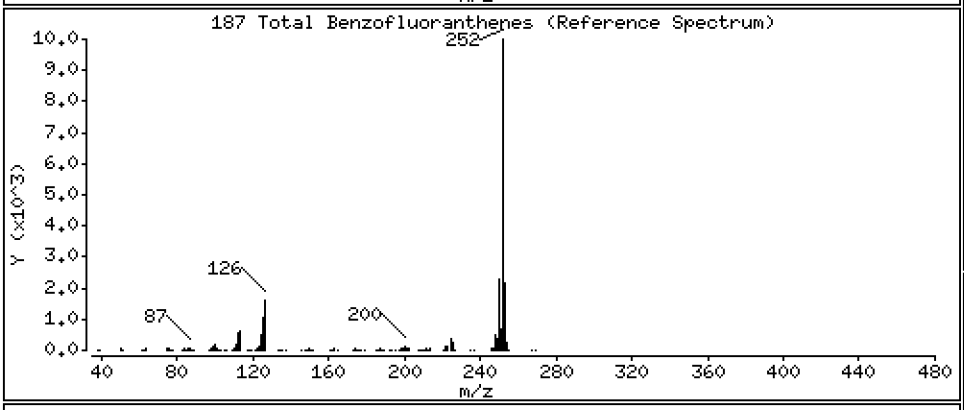
Column diameter: 0.25

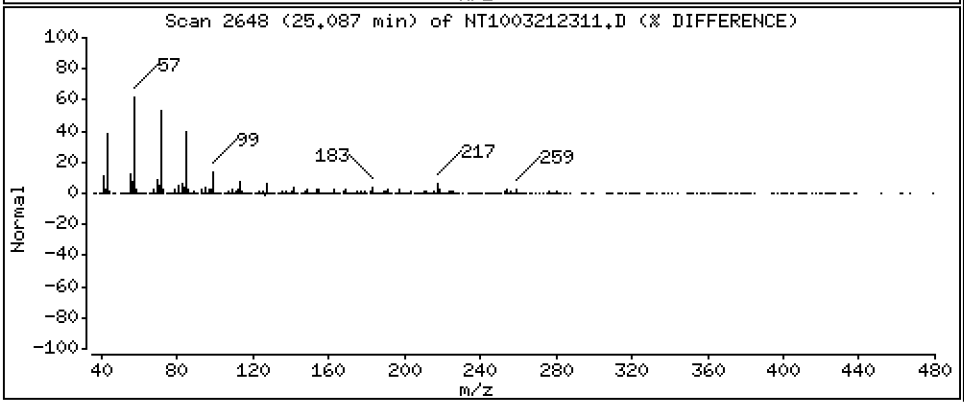
187 Total Benzofluoranthenes

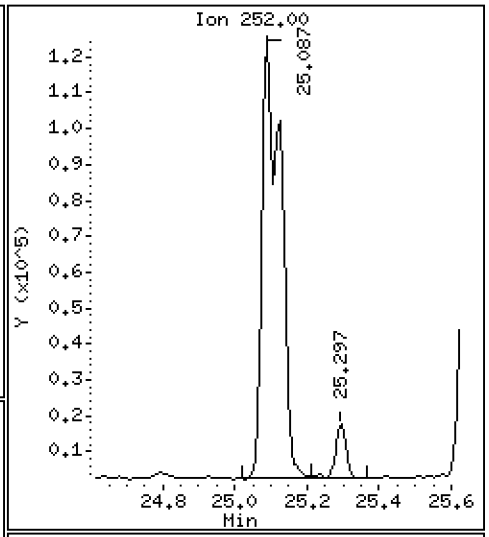
Concentration: 1.738 ug/mL

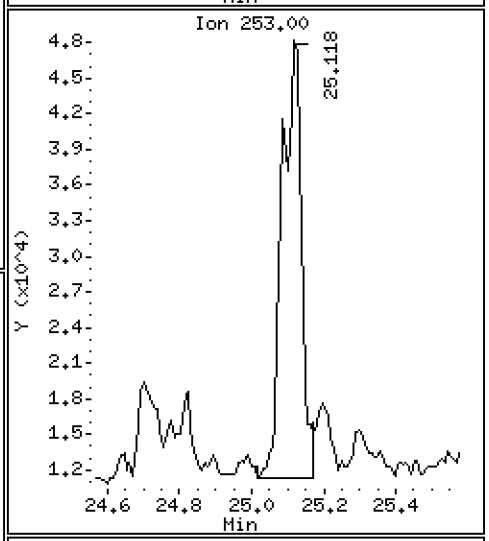


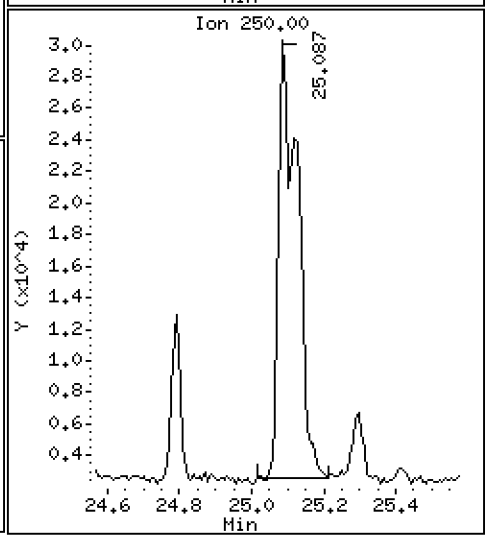












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230321.b\NT1003212311.D
Lab Smp Id: 23C0071-02
Inj Date : 21-MAR-2023 23:35
Operator : VTS Inst ID: nt10.i
Smp Info : 23C0071-02
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230321.b\ABN.m
Meth Date : 29-Mar-2023 06:54 van Quant Type: ISTD
Cal Date : 16-MAR-2023 00:22 Cal File: NT10031508.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)	
$	1 2-Fluorophenol	112	6.890	6.889	(0.729)	327944	5.15894	5.159	
$	2 Phenol-d5	99	8.466	8.473	(0.895)	448446	5.37757	5.378	
	3 Phenol	94	8.489	8.497	(0.898)	15052	0.17370	0.1737	
$	5 2-Chlorophenol-d4	132	8.744	8.744	(0.925)	404454	5.67967	5.680	
	4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.						
	6 2-Chlorophenol	128	Compound Not Detected.						
	7 1,3-Dichlorobenzene	146	Compound Not Detected.						
*	8 1,4-Dichlorobenzene-d4	152	9.100	9.108	(1.000)	210204	4.00000		(H)
	9 1,4-Dichlorobenzene	146	Compound Not Detected.						
$	10 1,2-Dichlorobenzene-d4	152	9.457	9.465	(1.000)	174738	3.41684	3.417	
	12 1,2-Dichlorobenzene	146	Compound Not Detected.						
	11 Benzyl alcohol	108	9.372	9.379	(0.991)	46946	1.15419	1.154	
	14 2,2'-oxybis(1-Chloropropane)	121	Compound Not Detected.						
	13 2-Methylphenol	108	9.597	9.604	(1.055)	2311	0.03658	0.03658	(M)
	17 Hexachloroethane	117	Compound Not Detected.						
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.						
	15 4-Methylphenol	108	9.861	9.876	(1.043)	11642	0.17491	0.1749	
$	18 Nitrobenzene-d5	82	10.187	10.202	(0.880)	271759	3.54461	3.545	
	19 Nitrobenzene	77	Compound Not Detected.						
	20 Isophorone	82	Compound Not Detected.						
	21 2-Nitrophenol	139	Compound Not Detected.						
	22 2,4-Dimethylphenol	107	Compound Not Detected.						
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.						
	24 Benzoic acid	105	11.020	11.113	(0.952)	53988	1.40288	1.403	
	25 2,4-Dichlorophenol	162	Compound Not Detected.						
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.						
*	27 Naphthalene-d8	136	11.572	11.587	(1.000)	759571	4.00000		
	28 Naphthalene	128	11.618	11.626	(1.004)	48033	0.23871	0.2387	
	29 4-Chloroaniline	127	Compound Not Detected.						
	30 Hexachlorobutadiene	225	Compound Not Detected.						
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.						
	32 2-Methylnaphthalene	142	13.003	13.018	(1.124)	14930	0.10281	0.1028	
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.						

			QUANT SIG					CONCENTRATIONS ON-COLUMN	FINAL
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug/mL)
	34	2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35	2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36	2-Fluorobiphenyl	172	13.785	13.800	(0.909)	644552	3.91283	3.913
	37	2-Chloronaphthalene	162	Compound Not Detected.					
	38	2-Nitroaniline	65	Compound Not Detected.					
	39	Dimethylphthalate	163	Compound Not Detected.					
	40	Acenaphthylene	152	14.860	14.876	(0.980)	14125	0.06796	0.06796
	41	2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42	Acenaphthene-d10	164	15.170	15.185	(1.000)	416429	4.00000	
	43	3-Nitroaniline	138	Compound Not Detected.					
	44	Acenaphthene	153	15.239	15.247	(1.005)	19433	0.15135	0.1513
	45	2,4-Dinitrophenol	184	Compound Not Detected.					
	46	Dibenzofuran	168	15.564	15.572	(1.026)	22994	0.12144	0.1214
	47	4-Nitrophenol	109	Compound Not Detected.					
	48	2,4-Dinitrotoluene	165	Compound Not Detected.					
	50	Diethylphthalate	149	16.128	16.144	(1.063)	14386	0.10838	0.1084
	49	Fluorene	166	16.268	16.283	(1.072)	18121	0.12165	0.1216
	51	4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52	4-Nitroaniline	138	Compound Not Detected.					
	53	4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54	N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55	2,4,6-Tribromophenol	330	16.800	16.815	(1.107)	156086	8.05136	8.051
	56	4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57	Hexachlorobenzene	284	Compound Not Detected.					
	58	Pentachlorophenol	266	Compound Not Detected.					
*	59	Phenanthrene-d10	188	18.198	18.206	(1.000)	775606	4.00000	
	60	Phenanthrene	178	18.245	18.252	(1.003)	99093	0.46854	0.4685
	61	Anthracene	178	18.330	18.338	(1.007)	51694	0.25481	0.2548
	62	Carbazole	167	18.663	18.670	(1.026)	17901	0.09847	0.09847
	63	Di-n-butylphthalate	149	19.467	19.475	(1.070)	10118	0.04139	0.04139
	64	Fluoranthene	202	20.651	20.620	(0.889)	310481	1.10694	1.107
	65	Pyrene	202	21.053	21.046	(0.906)	334095	1.16114	1.161
$	66	Terphenyl-d14	244	21.340	21.332	(0.918)	833918	3.85932	3.859
	67	Butylbenzylphthalate	149	22.261	22.261	(0.958)	18607	0.18416	0.1842
	68	Benzo(a)anthracene	228	23.206	23.198	(0.999)	146476	0.59449	0.5945
*	69	Chrysene-d12	240	23.237	23.229	(1.000)	698045	4.00000	
	70	3,3'-Dichlorobenzidine	252	Compound Not Detected.					
	71	Chrysene	228	23.275	23.275	(1.002)	199739	0.82977	0.8298
	72	bis(2-Ethylhexyl)phthalate	149	23.291	23.283	(0.959)	169203	0.99624	0.9962
*	134	Di-n-octylphthalate-d4	153	24.282	24.266	(1.000)	1160658	4.00000	
	73	Di-n-octylphthalate	149	24.297	24.282	(1.001)	11124	0.03662	0.03662
	74	Benzo(b)fluoranthene	252	25.087	25.071	(0.970)	226638	0.86610	0.8661
	75	Benzo(k)fluoranthene	252	25.126	25.118	(0.972)	248859	0.93657	0.9366
	76	Benzo(a)pyrene	252	25.737	25.722	(0.995)	154597	0.66080	0.6608
*	77	Perylene-d12	264	25.861	25.830	(1.000)	807272	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	28.513	28.466	(1.103)	110037	0.36969	0.3697
	79	Dibenzo(a,h)anthracene	278	28.521	28.482	(1.103)	27980	0.11323	0.1132(M)
	80	Benzo(g,h,i)perylene	276	29.298	29.235	(1.133)	114707	0.44531	0.4453
	90	N-Nitrosodimethylamine	74	Compound Not Detected.					
	91	Aniline	93	Compound Not Detected.					
	93	Benzidine	184	Compound Not Detected.					
	103	Pyridine	79	Compound Not Detected.					
	105	1-methylnaphthalene	142	13.227	13.243	(1.143)	15506	0.11655	0.1165
	111	Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.087	25.118	(0.970)	439026	1.73764	1.738
120 2,3,4,6-Tetrachlorophenol	232	Compound Not Detected.					

QC Flag Legend

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

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1003212311.D
Lab Smp Id: 23C0071-02
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230321.b\ABN.m
Misc Info:

Calibration Date: 21-MAR-2023
Calibration Time: 17:46
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	138414	69207	276828	210204	51.87
27 Naphthalene-d8	511348	255674	1022696	759571	48.54
42 Acenaphthene-d10	293241	146621	586482	416429	42.01
59 Phenanthrene-d10	535484	267742	1070968	775606	44.84
69 Chrysene-d12	464733	232367	929466	698045	50.20
134 Di-n-octylphthala	716354	358177	1432708	1160658	62.02
77 Perylene-d12	509704	254852	1019408	807272	58.38

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.11	8.61	9.61	9.10	-0.08
27 Naphthalene-d8	11.59	11.09	12.09	11.57	-0.13
42 Acenaphthene-d10	15.19	14.69	15.69	15.17	-0.10
59 Phenanthrene-d10	18.21	17.71	18.71	18.20	-0.04
69 Chrysene-d12	23.23	22.73	23.73	23.24	0.03
134 Di-n-octylphthala	24.27	23.77	24.77	24.28	0.06
77 Perylene-d12	25.83	25.33	26.33	25.86	0.12

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

REVIEW SUMMARY FOR FILE - NT1003212311.D

Lab ID: 23C0071-02
nt10.i, 20230321.b\ABN.m,   21-MAR-2023 23:35

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
1.055	1.015	0.0398	2-Methylphenol
0.952	0.959	-0.0068	Benzoic acid

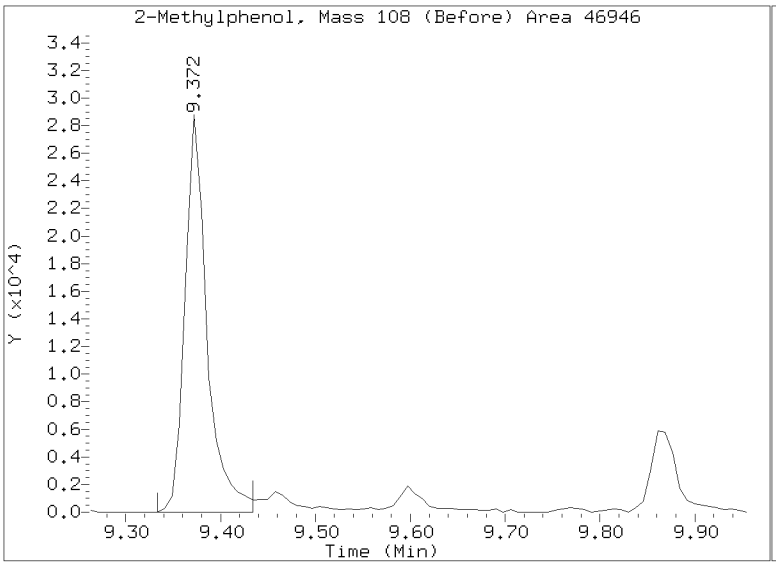
RRT check based on Ccal File: NT1003212302.D

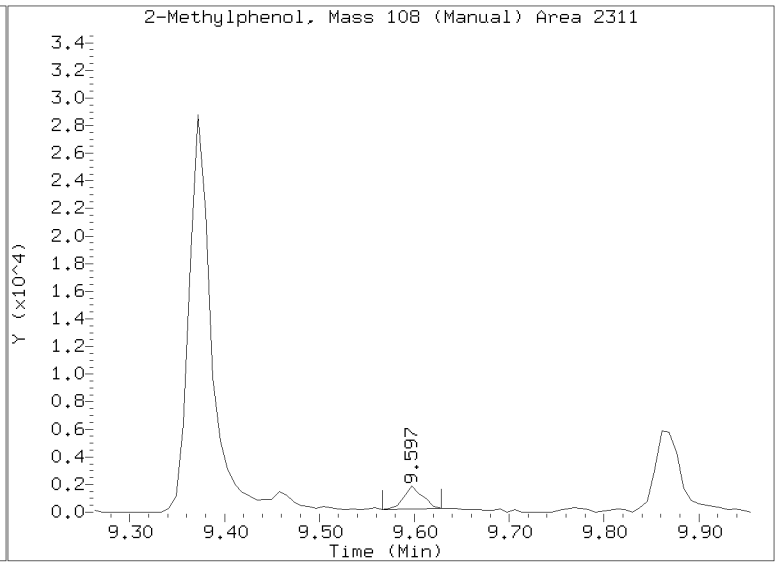
On Column LOD for nt10.i, 20230321.b\ABN.m, ICAL.sub = 0.0000

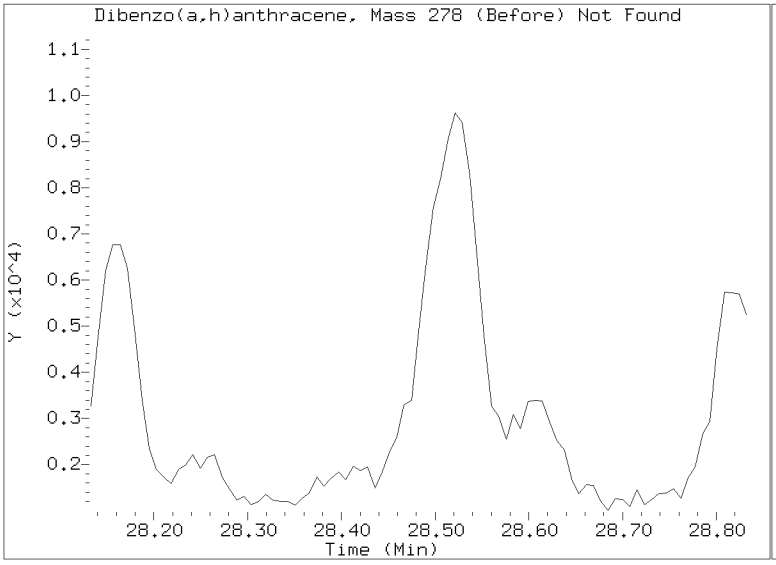
* Only compounds listed in the work order have been verified by the analyst *

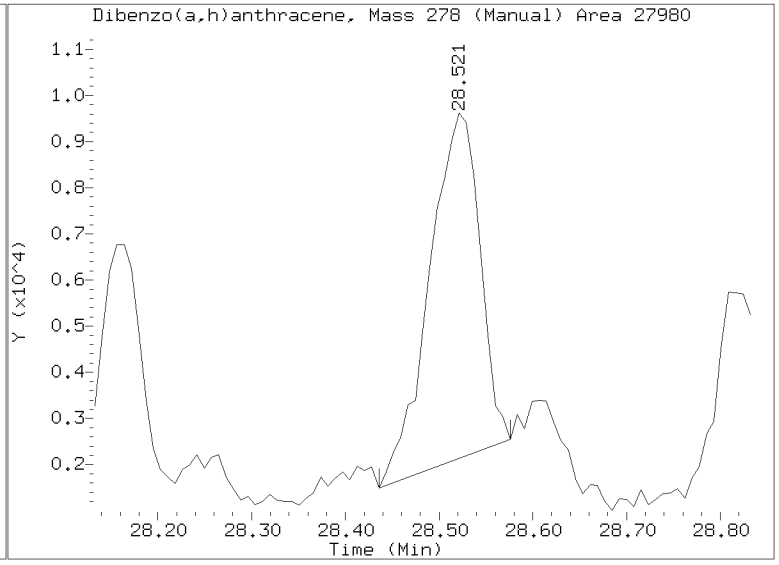
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230321.b/NT1003212311.D
Injection Date: 21-MAR-2023 23:35
Lab ID:23C0071-02 Client ID:
Report Date: 03/29/2023 08:02









Analytical Resources, LLC
Analytical Chemists and Consultants

LDW23-SS1036

Form I

ORGANIC ANALYSIS DATA SHEET

EPA 8270E

Semivolatiles (20ug/kg - 0.2ug/L SepF)

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0071-03 A	SDG:	23C0071
Sampled:	03/02/23 10:10	Prepared:	03/07/23 10:21	File ID:	NT1003212312.D
% Solids:	47.57	Preparation:	EPA 3546 (Microwave)	Analyzed:	03/22/23 00:13
Batch:	BLC0109	Sequence:	SLC0451	Initial/Final:	21.57 g Wet / 1 mL
Instrument:	NT10	Column:	ZB-5MSi	Calibration:	GC00046
Cleanups:	GPC				

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
108-95-2	Phenol	1	192		4.3	19.5
106-44-5	4-Methylphenol	1	15.5	J	7.2	19.5
91-20-3	Naphthalene	1	29.1		4.1	19.5
91-57-6	2-Methylnaphthalene	1	15.4	J	4.4	19.5
208-96-8	Acenaphthylene	1	8.9	J	6.1	19.5
131-11-3	Dimethylphthalate	1	7.4	J	4.3	19.5
83-32-9	Acenaphthene	1	8.7	J	5.1	19.5
132-64-9	Dibenzofuran	1	14.6	J	13.8	19.5
86-73-7	Fluorene	1	32.5		14.2	19.5
85-01-8	Phenanthrene	1	99.7		8.5	19.5
120-12-7	Anthracene	1	126		7.0	19.5
206-44-0	Fluoranthene	1	128		5.9	19.5
129-00-0	Pyrene	1	121		5.5	19.5
85-68-7	Butylbenzylphthalate	1	17.3	J	9.2	19.5
56-55-3	Benzo(a)anthracene	1	78.0		5.8	19.5
218-01-9	Chrysene	1	121		5.9	19.5
117-81-7	bis(2-Ethylhexyl)phthalate	1	83.0		5.3	48.7
	Benzofluoranthenes, Total	1	182		9.7	39.0
50-32-8	Benzo(a)pyrene	1	73.7		4.1	19.5
193-39-5	Indeno(1,2,3-cd)pyrene	1	38.5		14.3	19.5
53-70-3	Dibenzo(a,h)anthracene	1	19.5	U	16.8	19.5
191-24-2	Benzo(g,h,i)perylene	1	46.0		13.2	19.5

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorophenol	730.93	551	75.3	27 - 120	
Phenol-d5	730.93	566	77.4	29 - 120	
2-Chlorophenol-d4	730.93	614	84.0	31 - 120	
1,2-Dichlorobenzene-d4	487.29	377	77.4	32 - 120	
Nitrobenzene-d5	487.29	397	81.5	30 - 120	
2-Fluorobiphenyl	487.29	418	85.8	35 - 120	

Analytical Resources, LLC
Analytical Chemists and Consultants

LDW23-SS1036

Form I

ORGANIC ANALYSIS DATA SHEET

EPA 8270E

Semivolatiles (20ug/kg - 0.2ug/L SepF)

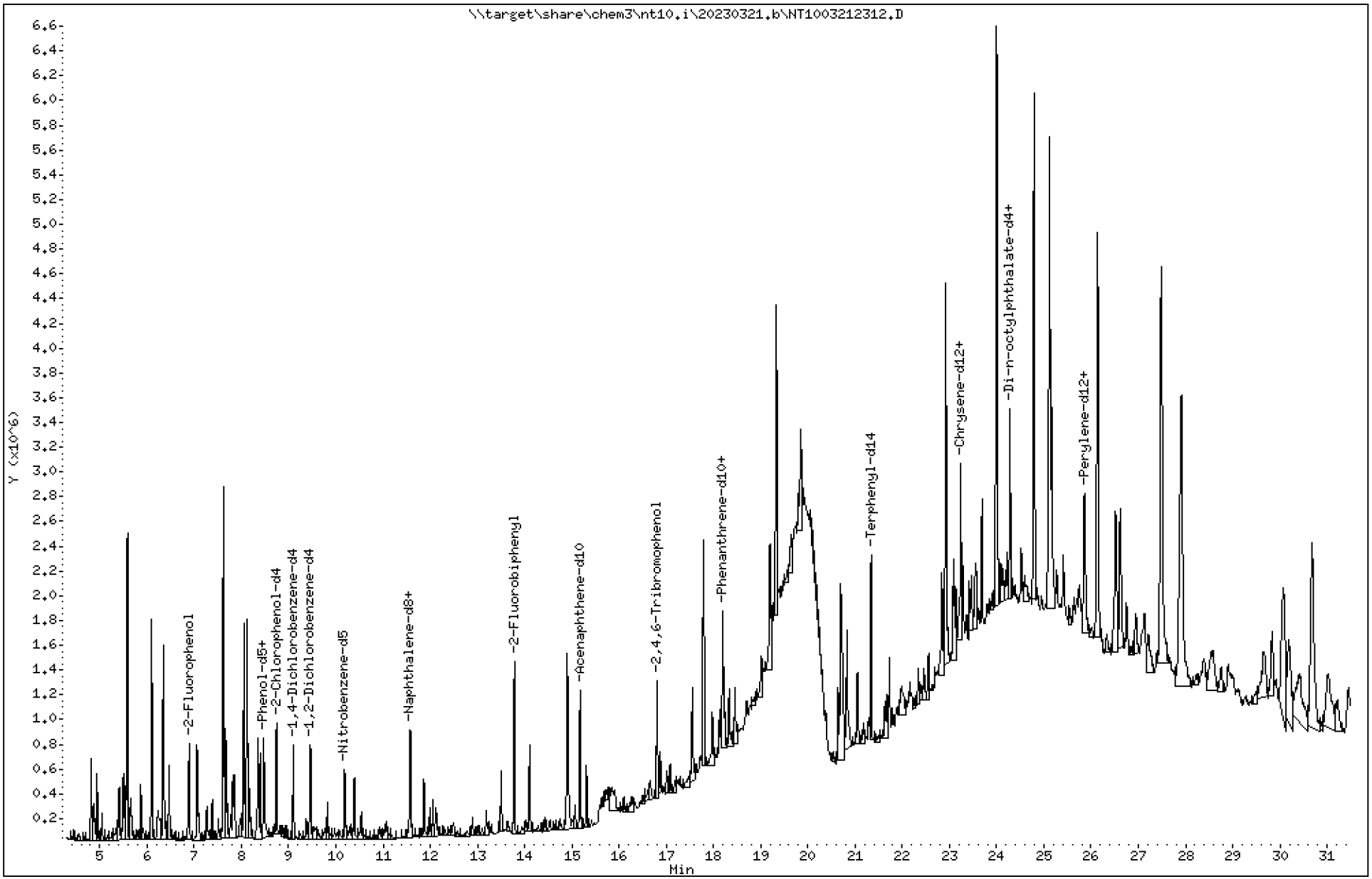
Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0071-03 A	SDG:	23C0071
Sampled:	03/02/23 10:10	Prepared:	03/07/23 10:21	File ID:	NT1003212312.D
% Solids:	47.57	Preparation:	EPA 3546 (Microwave)	Analyzed:	03/22/23 00:13
Batch:	BLC0109	Sequence:	SLC0451	Initial/Final:	21.57 g Wet / 1 mL
Instrument:	NT10	Column:	ZB-5MSi	Calibration:	GC00046
Cleanups:	GPC				

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2,4,6-Tribromophenol	730.93	826	113	24 - 134	
p-Terphenyl-d14	487.29	417	85.5	37 - 120	

Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212312.D
Date : 22-MAR-2023 00:13
Client ID:
Sample Info: 23C0071-03

Instrument: nt10.i
Operator: VTS
Column diameter: 0.25

Column phase: ZB-5msi



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Date : 22-MAR-2023 00:13

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-03

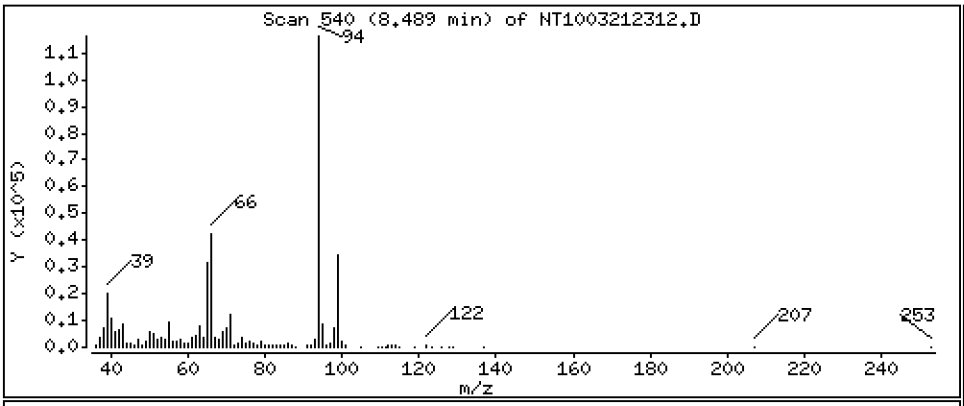
Operator: VTS

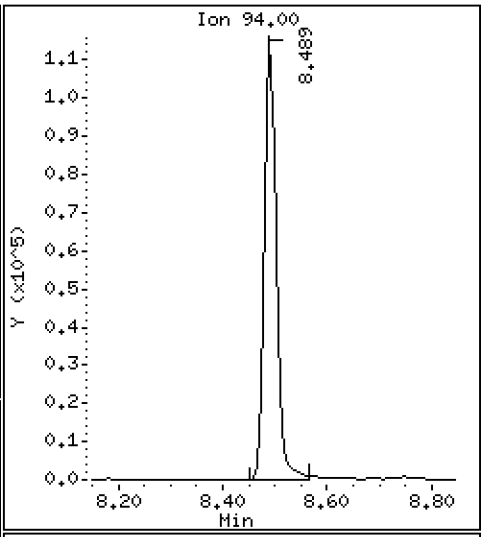
Column phase: ZB-5msi

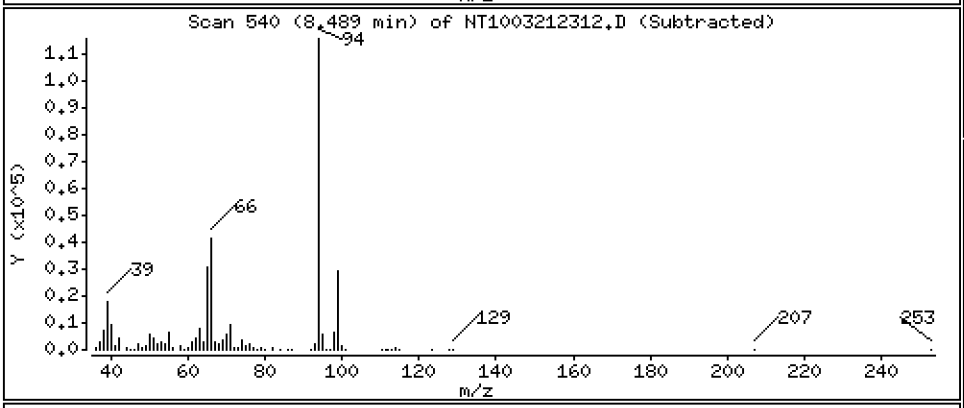
Column diameter: 0.25

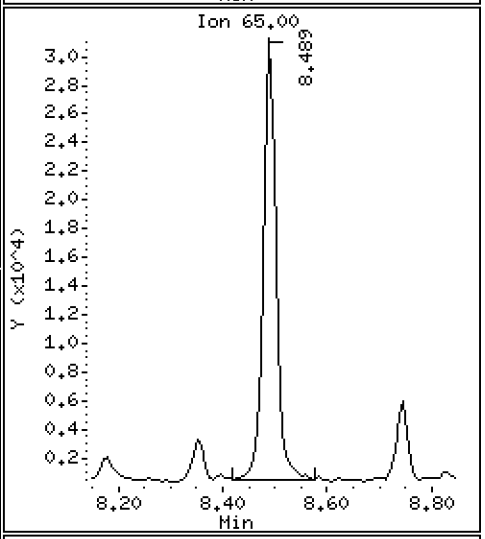
3 Phenol

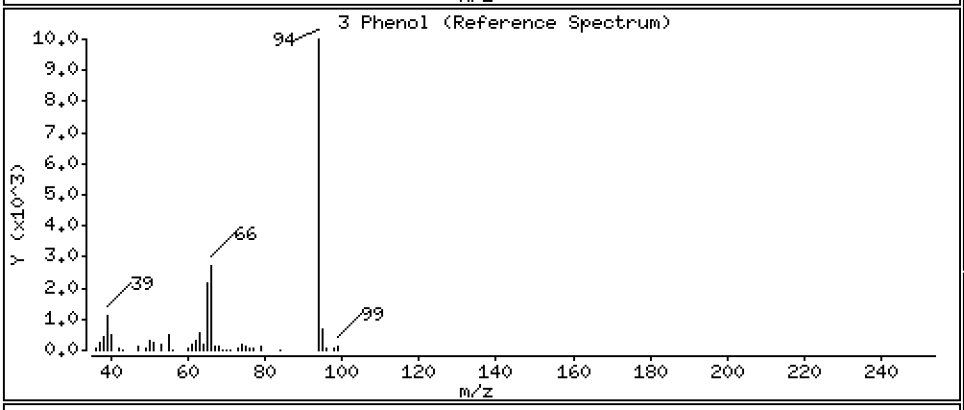
Concentration: 1.969 ug/mL

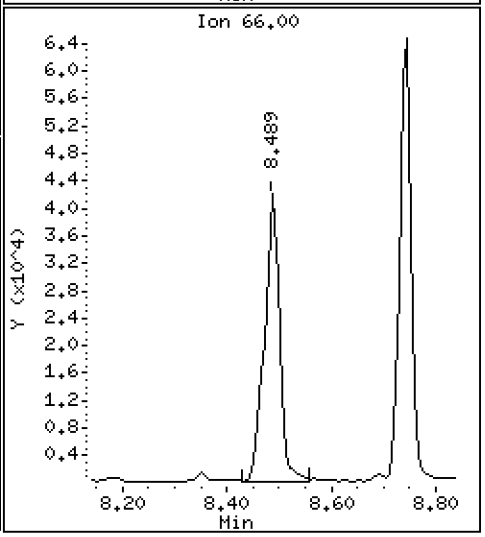


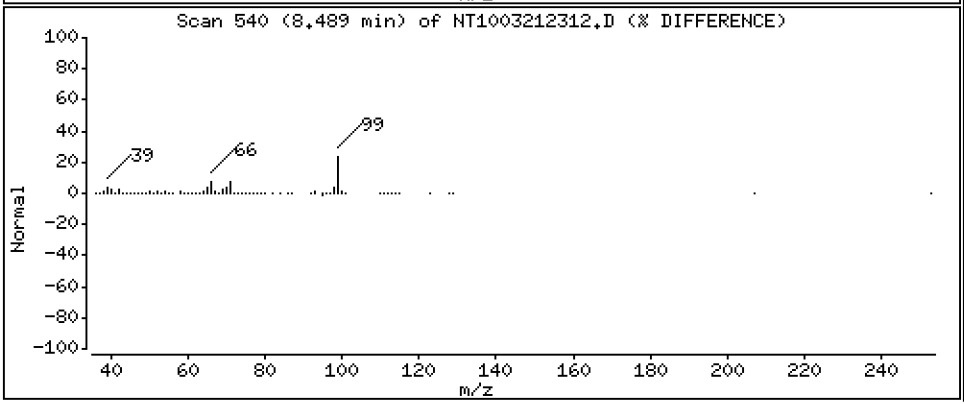












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Date : 22-MAR-2023 00:13

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-03

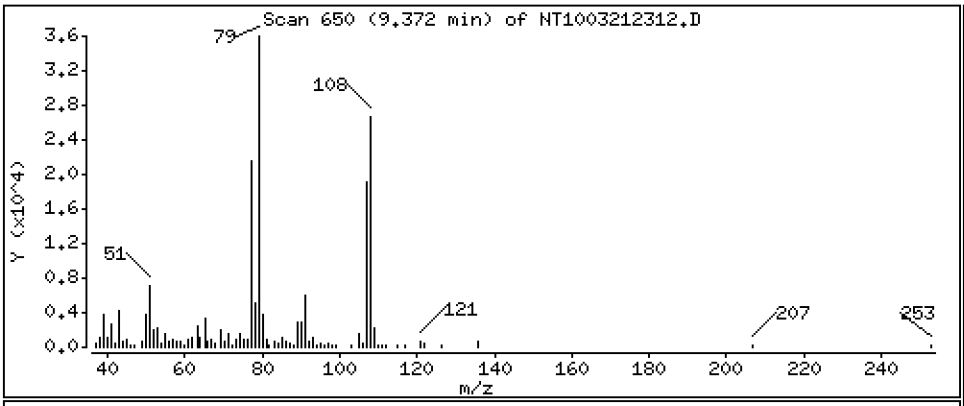
Operator: VTS

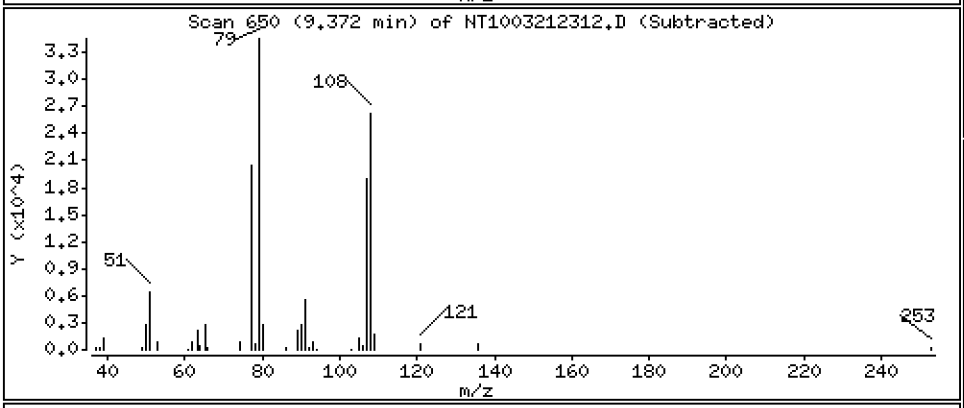
Column phase: ZB-5msi

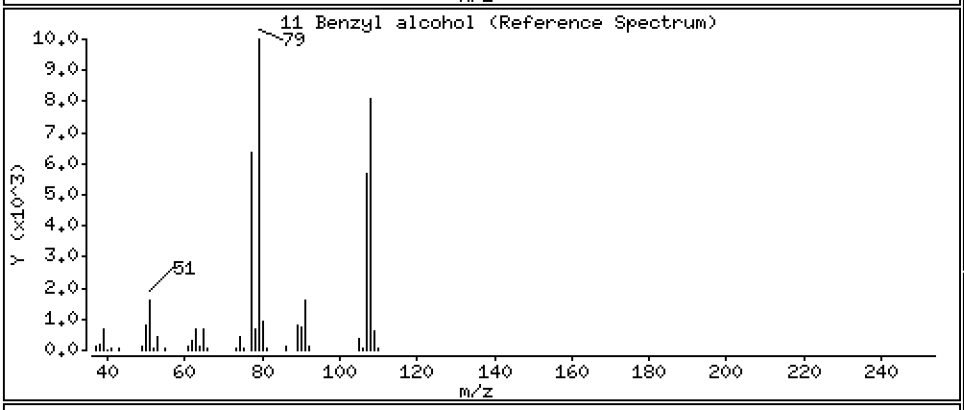
Column diameter: 0.25

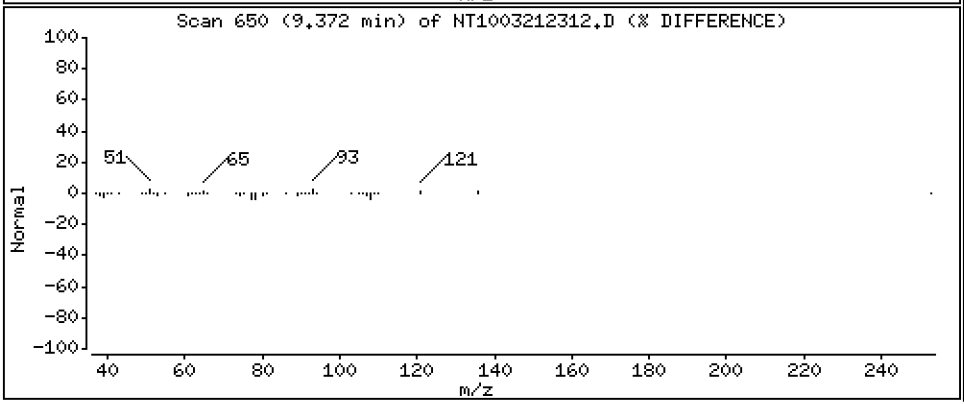
11 Benzyl alcohol

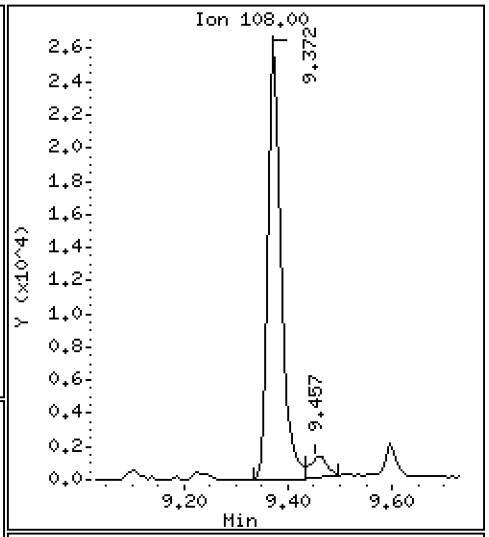
Concentration: 1.129 ug/mL

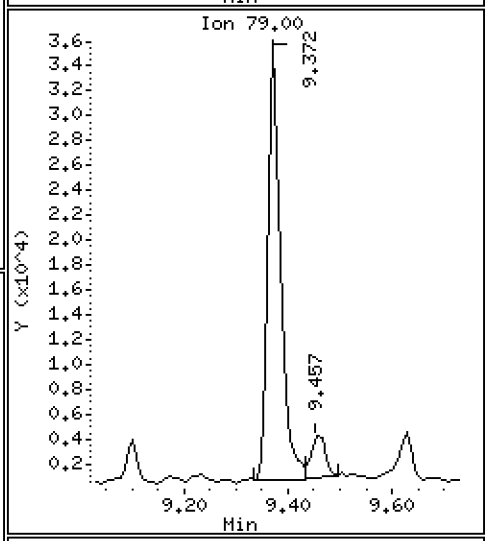


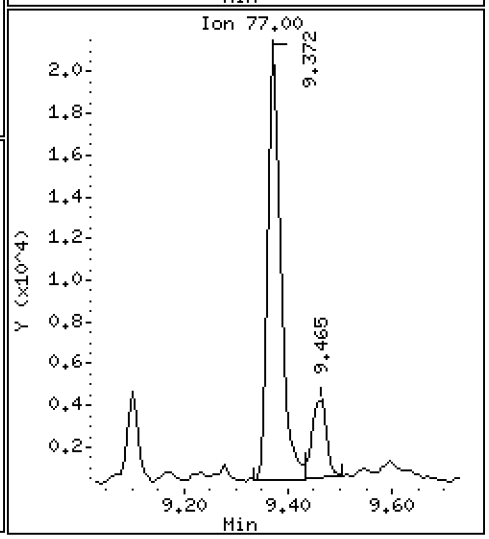












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Date : 22-MAR-2023 00:13

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-03

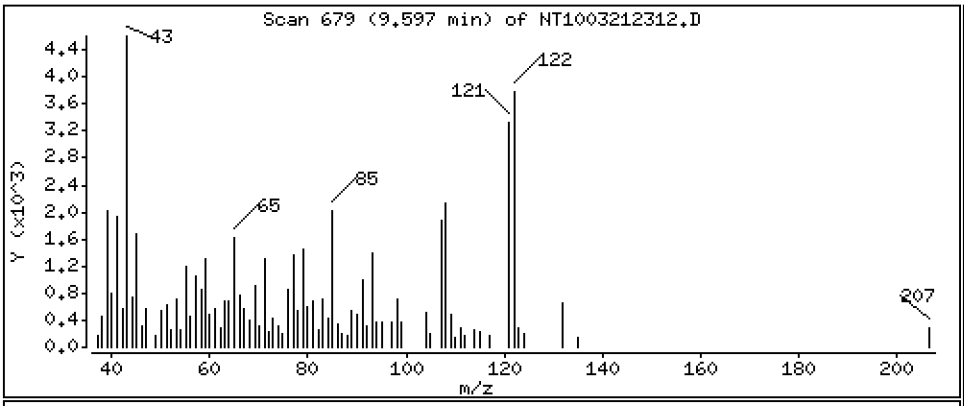
Operator: VTS

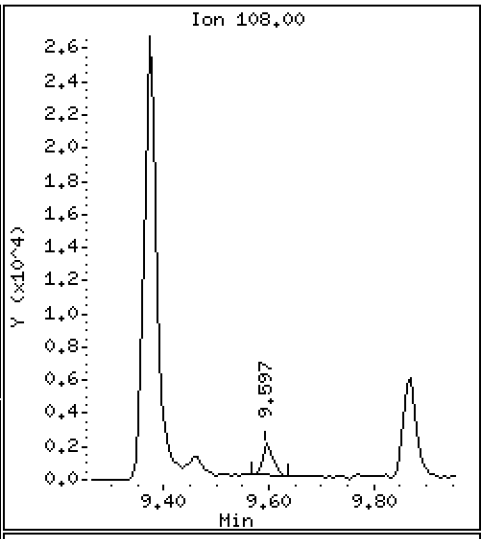
Column phase: ZB-5msi

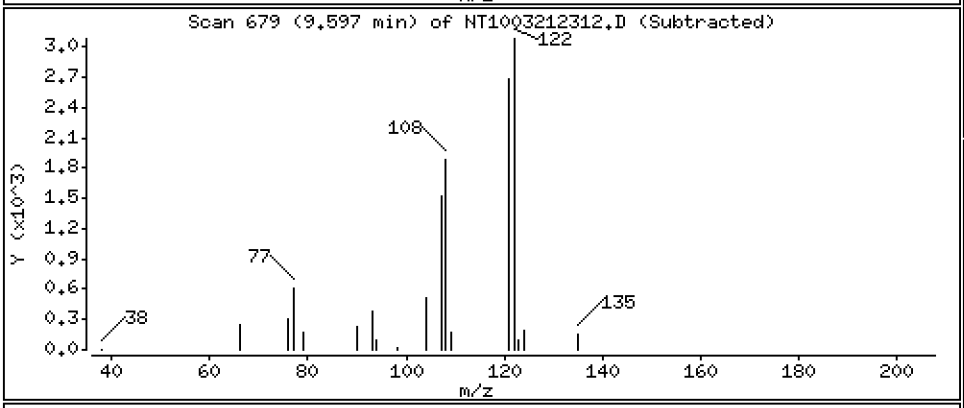
Column diameter: 0.25

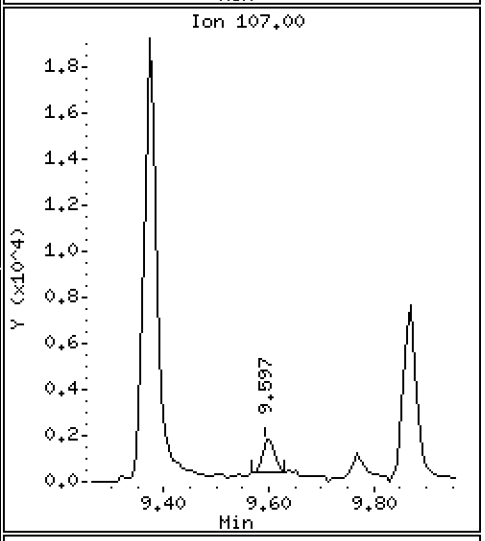
13 2-Methylphenol

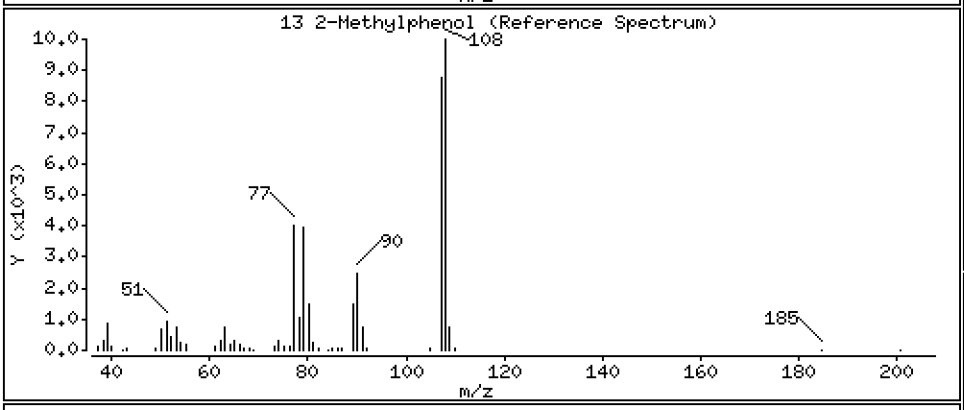
Concentration: 0.03937 ug/mL

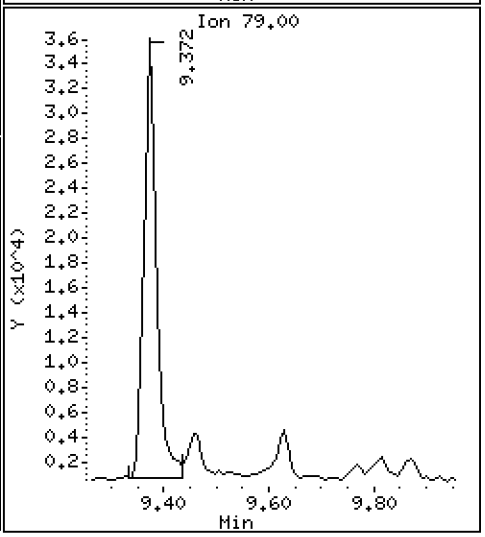


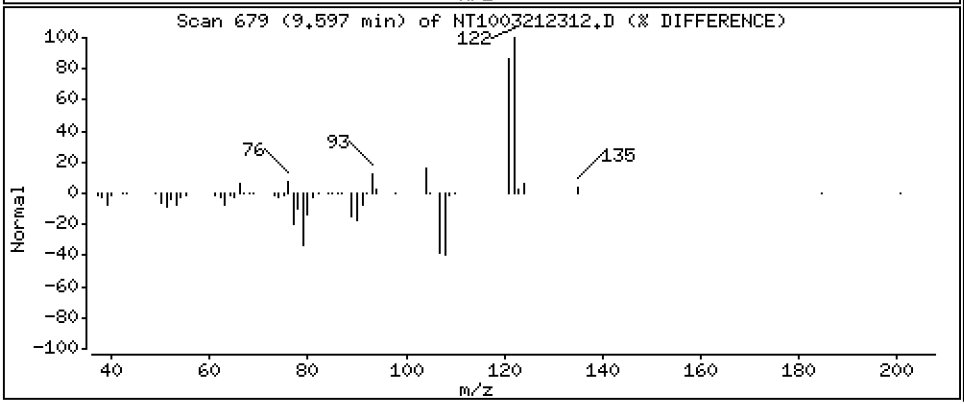












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Date : 22-MAR-2023 00:13

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-03

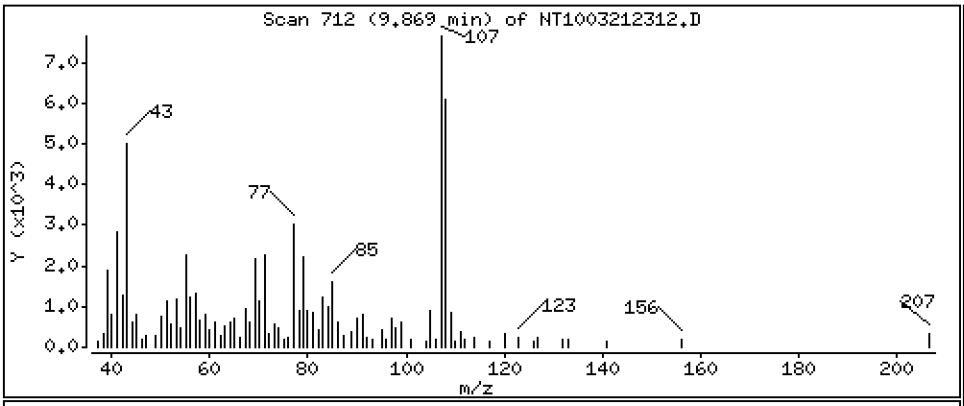
Operator: VTS

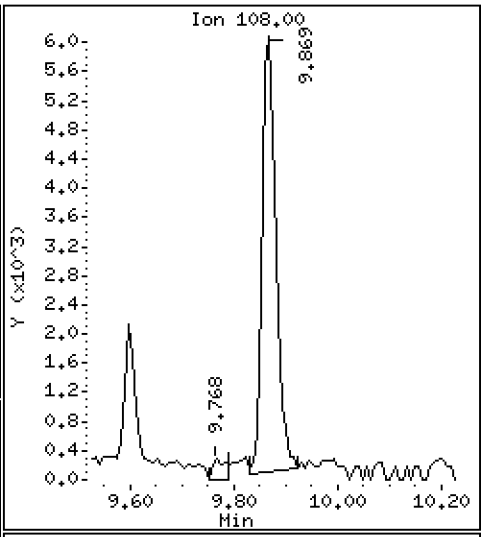
Column phase: ZB-5msi

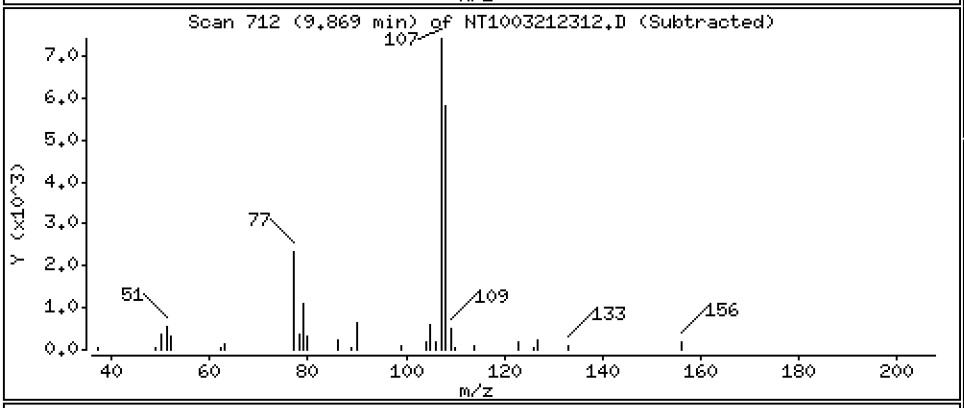
Column diameter: 0.25

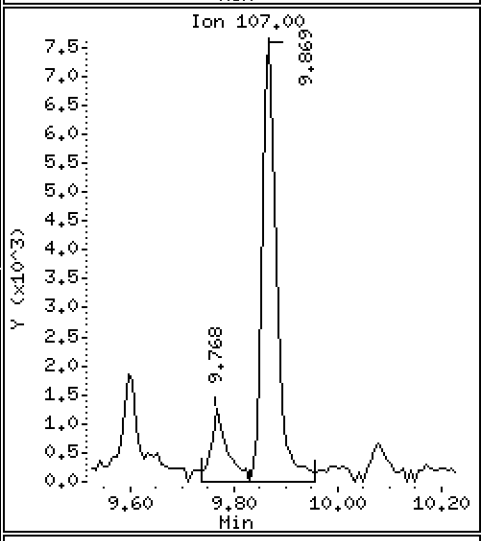
15 4-Methylphenol

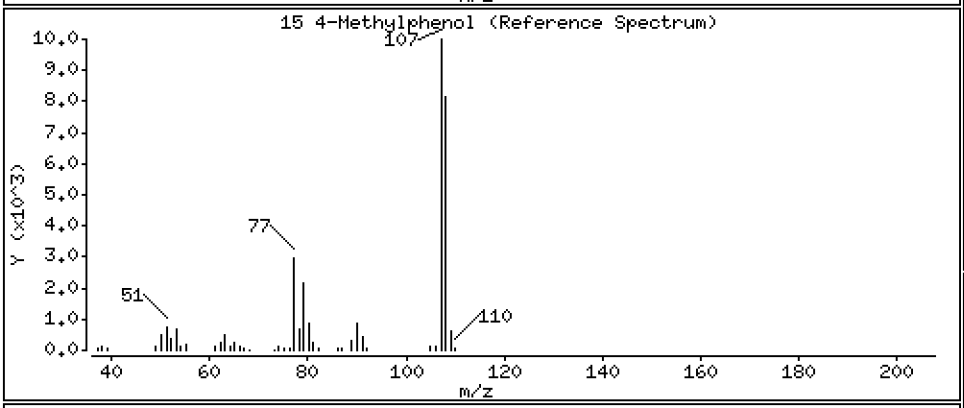
Concentration: 0.1594 ug/mL

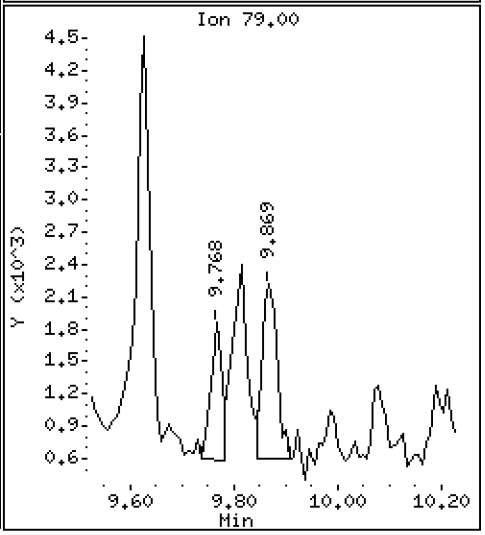


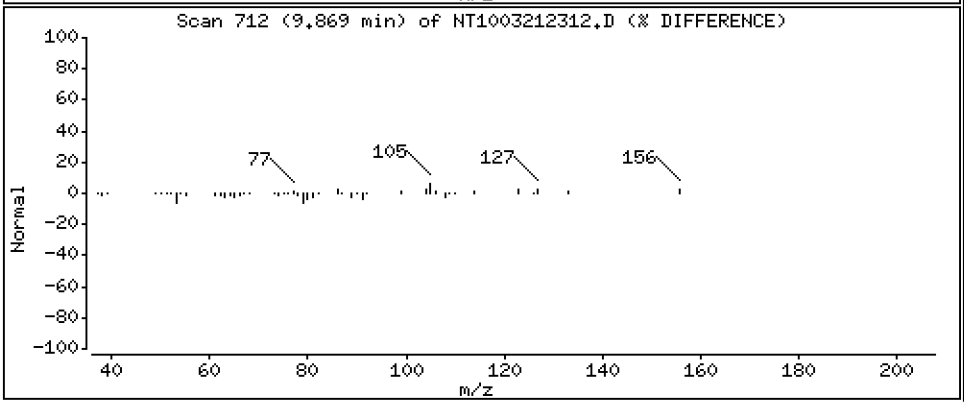












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Date : 22-MAR-2023 00:13

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-03

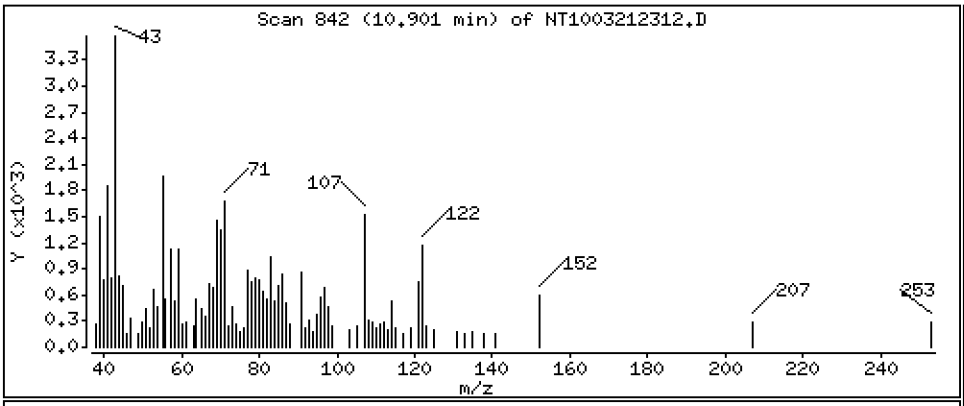
Operator: VTS

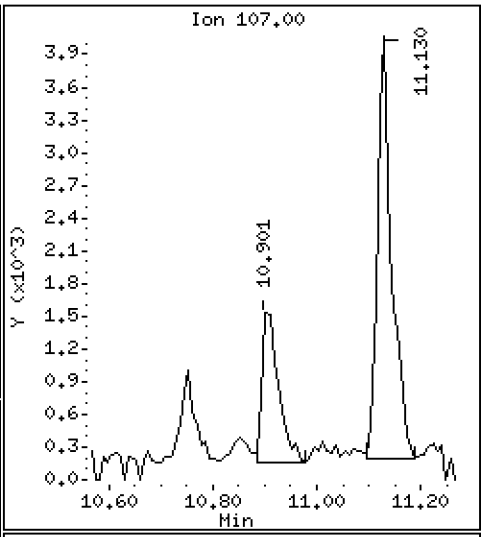
Column phase: ZB-5msi

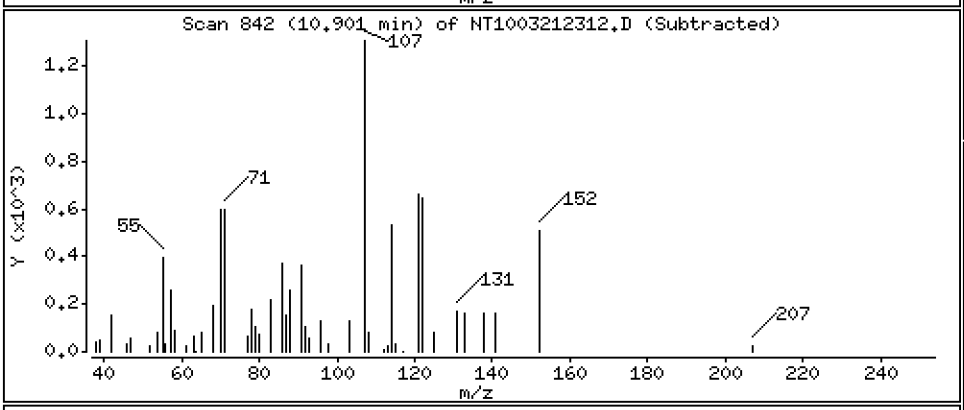
Column diameter: 0.25

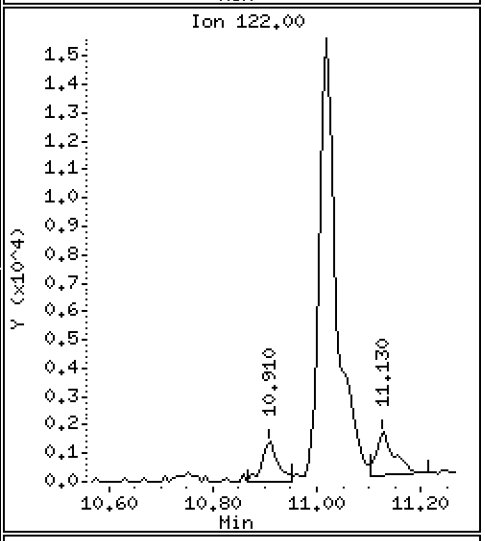
22 2,4-Dimethylphenol

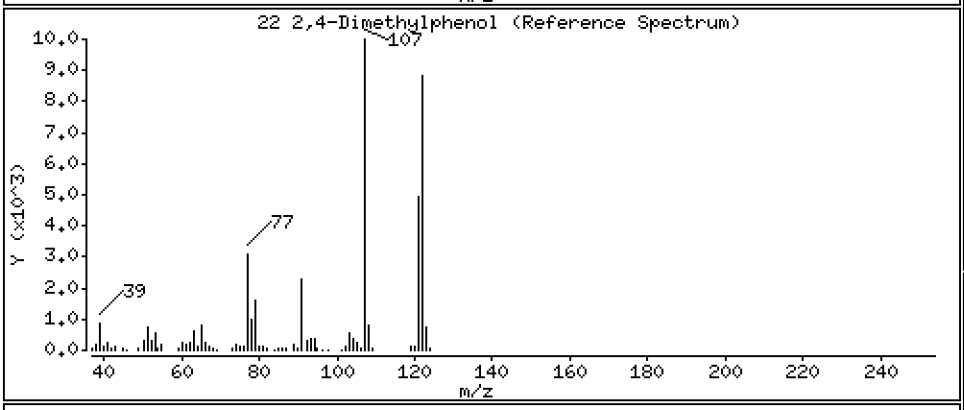
Concentration: 0.04530 ug/mL

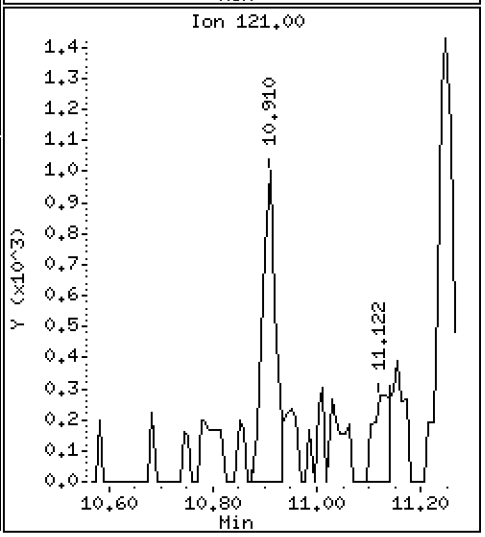


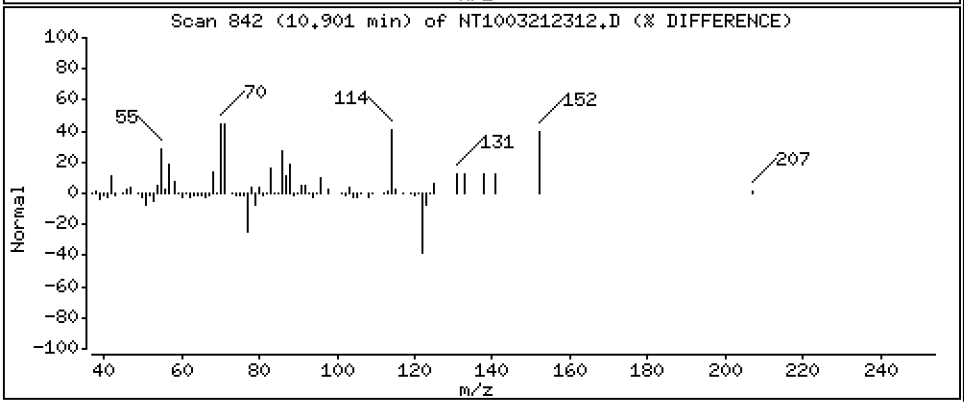












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Date : 22-MAR-2023 00:13

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-03

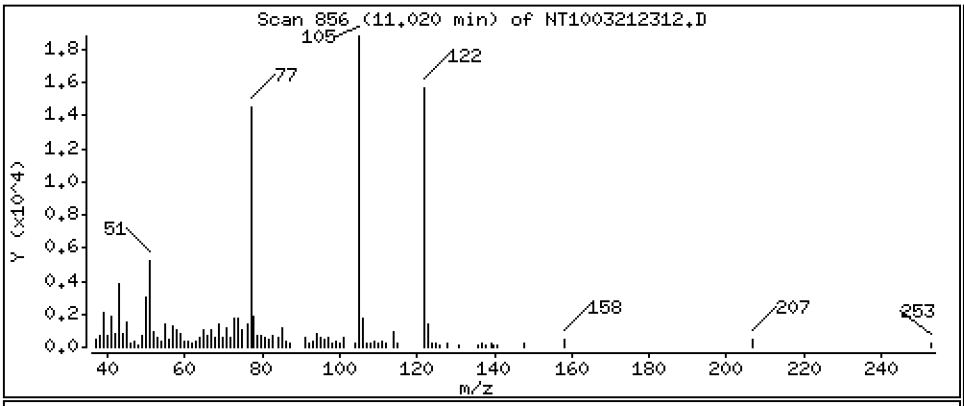
Operator: VTS

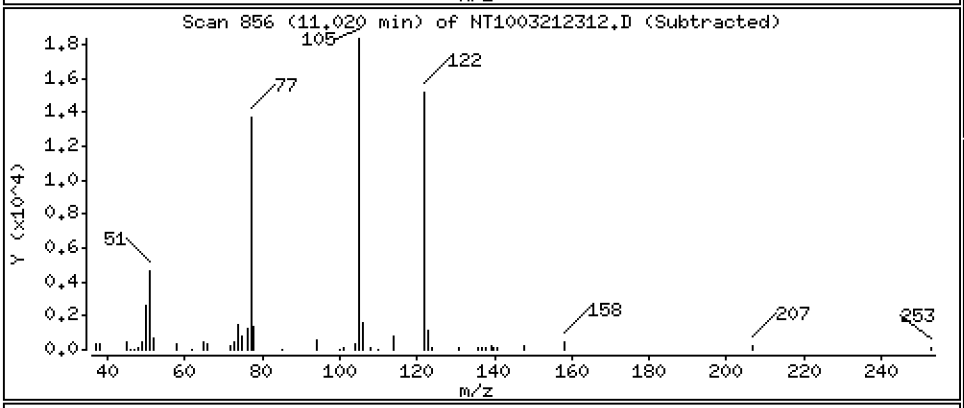
Column phase: ZB-5msi

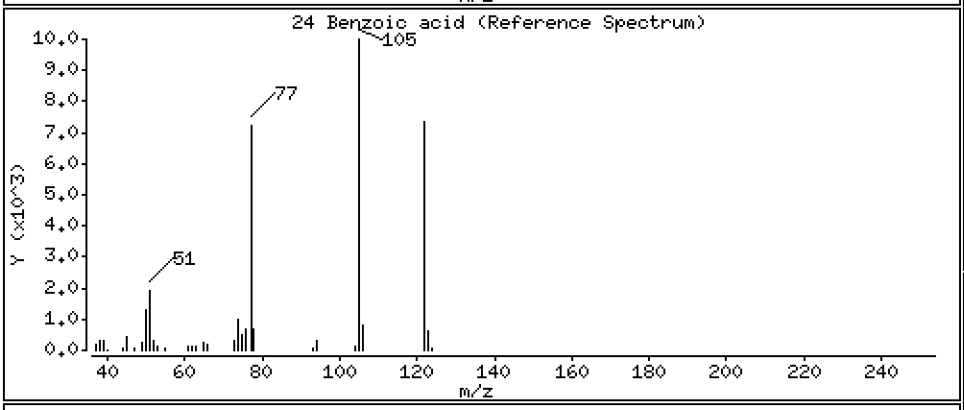
Column diameter: 0.25

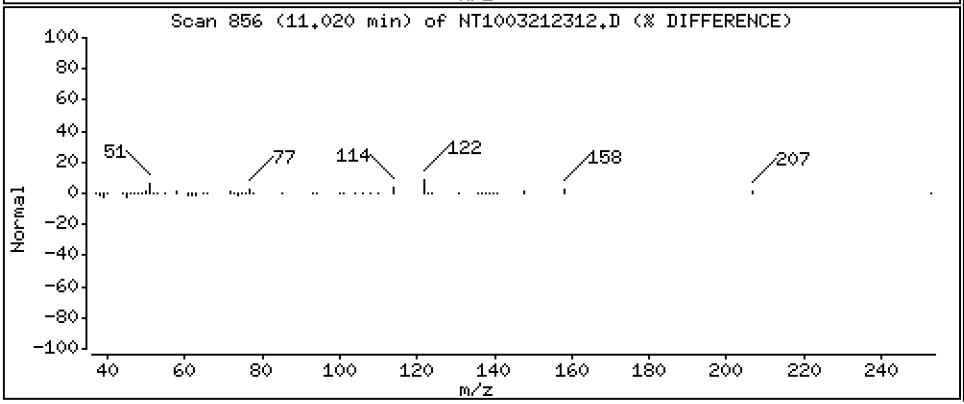
24 Benzoic acid

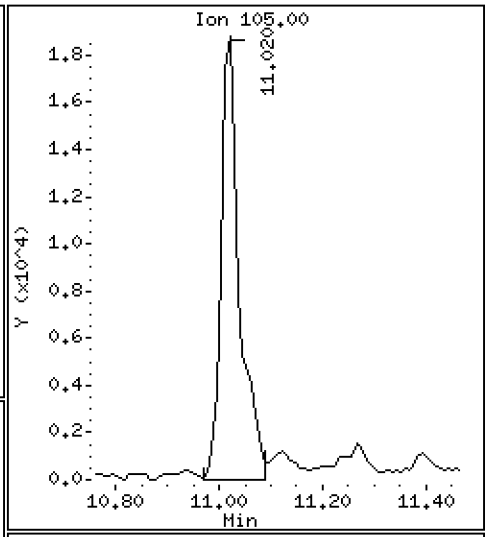
Concentration: 1.225 ug/mL

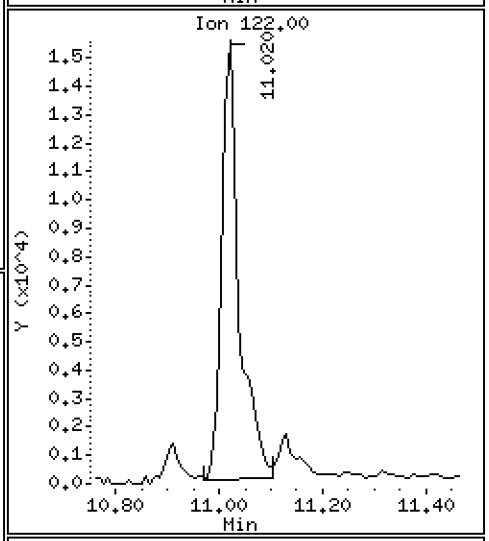


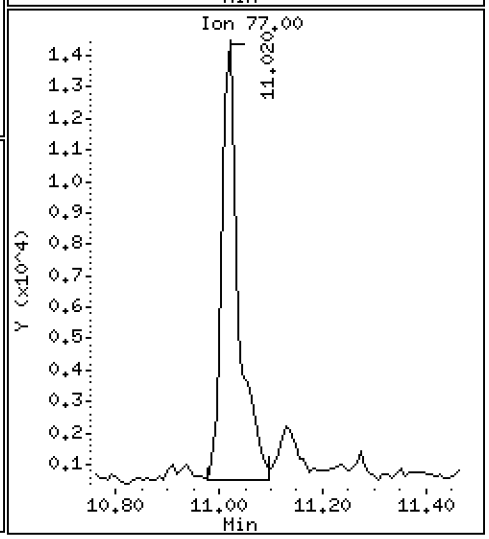












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Date : 22-MAR-2023 00:13

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-03

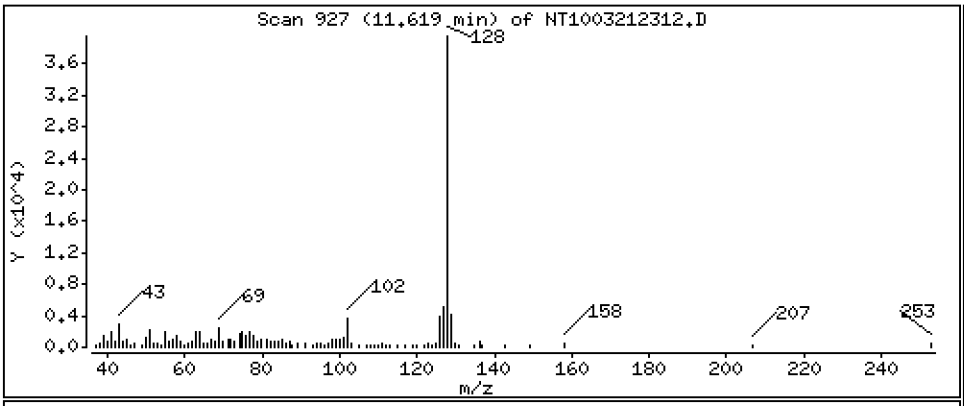
Operator: VTS

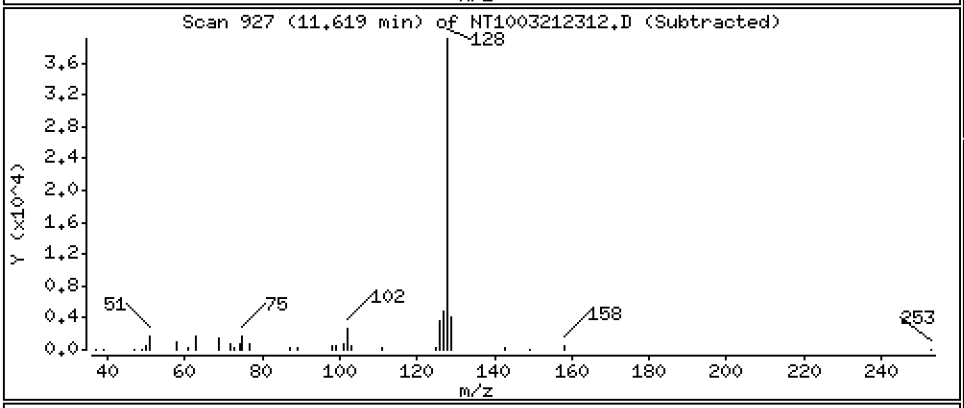
Column phase: ZB-5msi

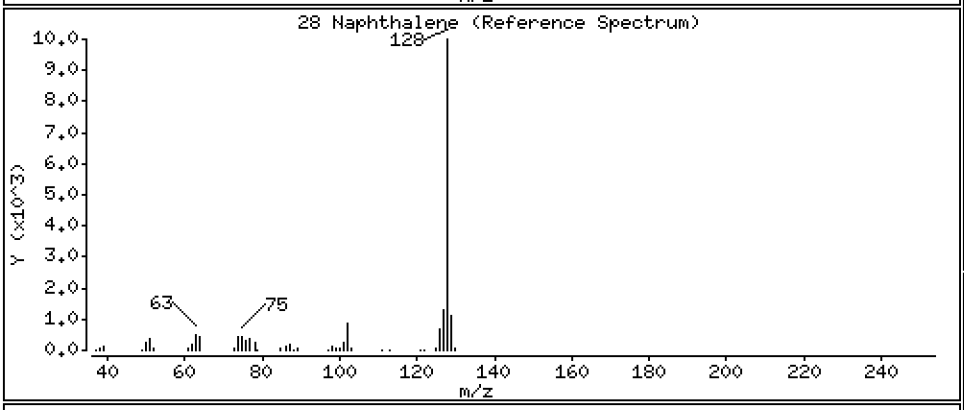
Column diameter: 0.25

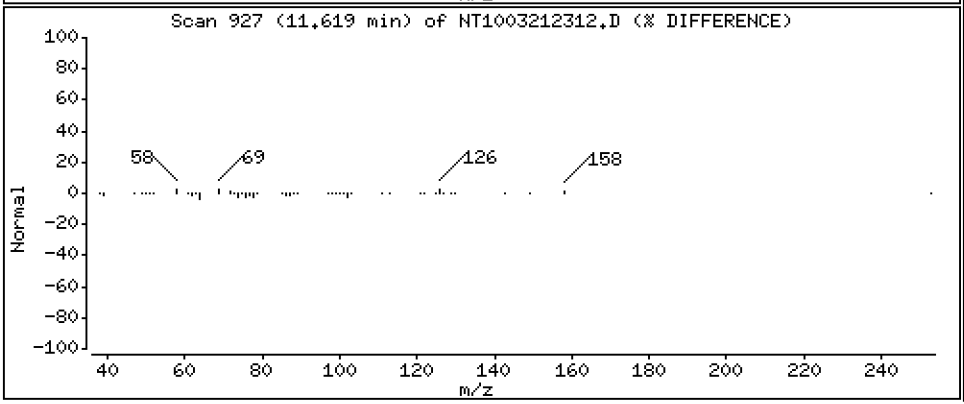
28 Naphthalene

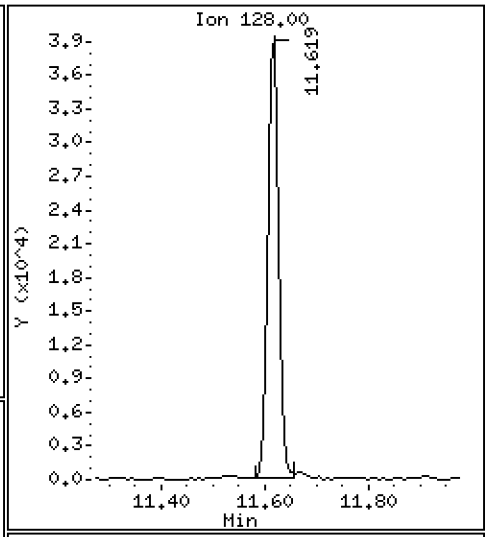
Concentration: 0.2986 ug/mL

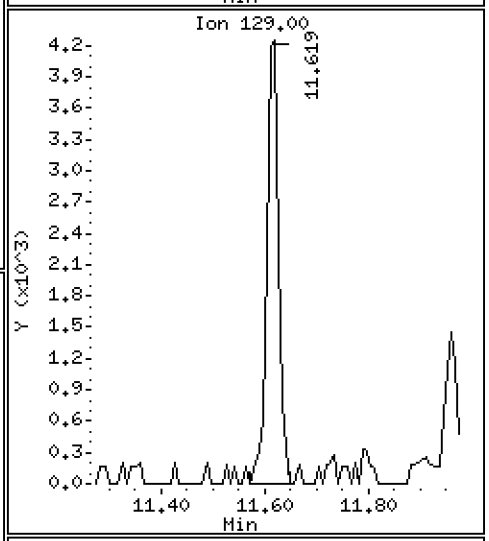


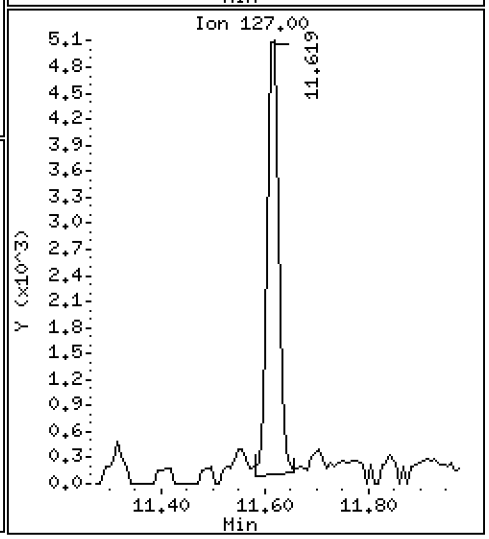












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Date : 22-MAR-2023 00:13

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-03

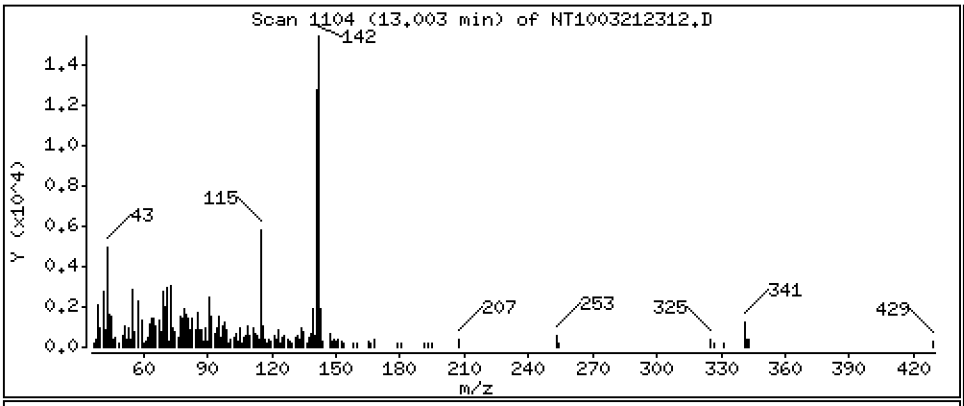
Operator: VTS

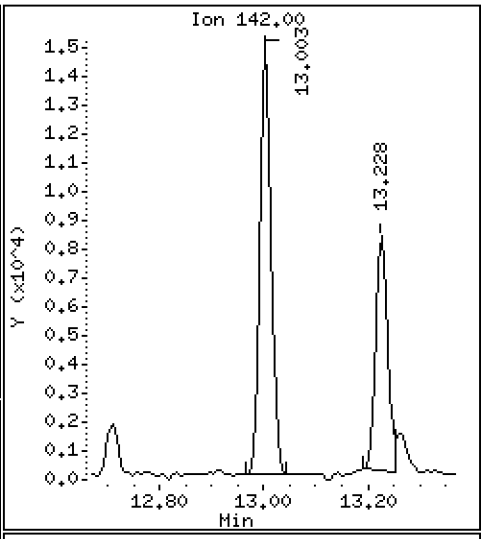
Column phase: ZB-5msi

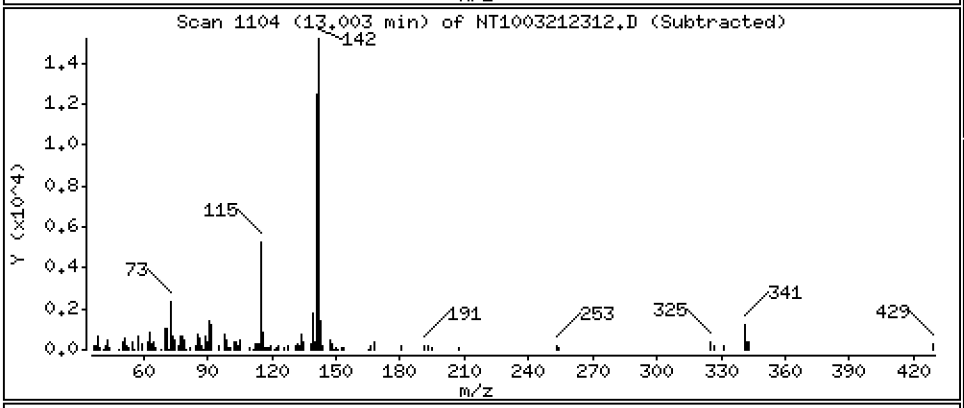
Column diameter: 0.25

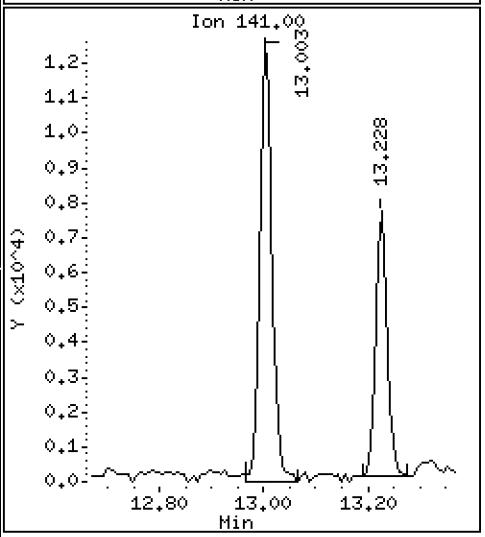
32 2-Methylnaphthalene

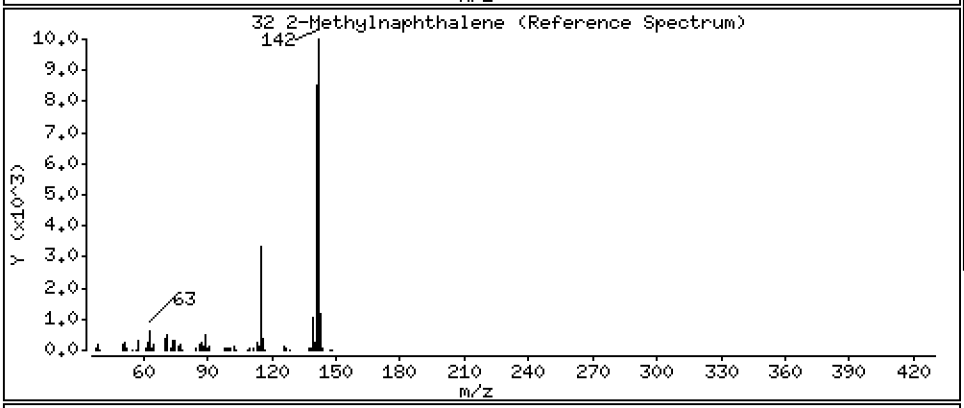
Concentration: 0.1579 ug/mL

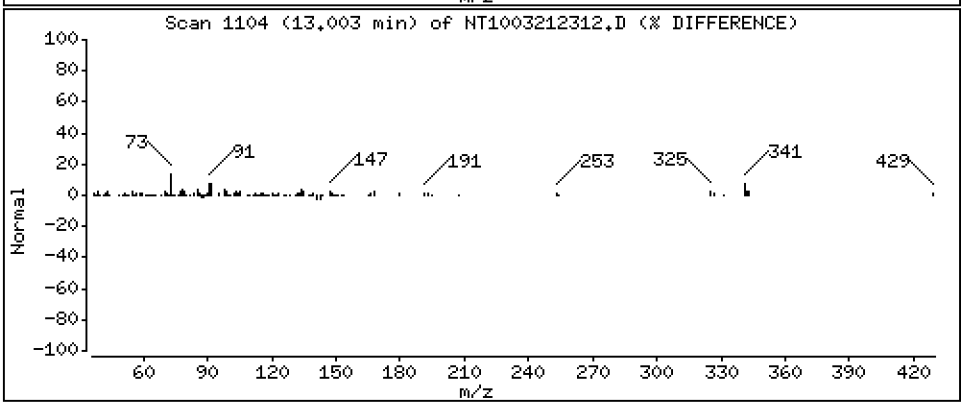












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Date : 22-MAR-2023 00:13

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-03

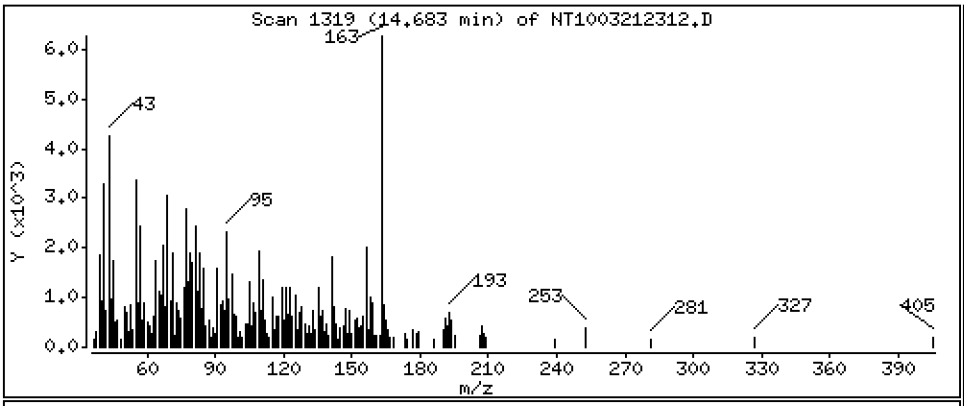
Operator: VTS

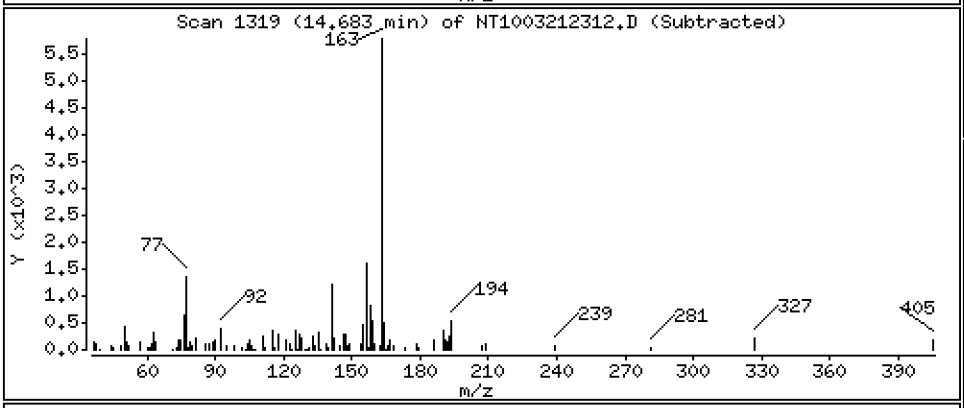
Column phase: ZB-5msi

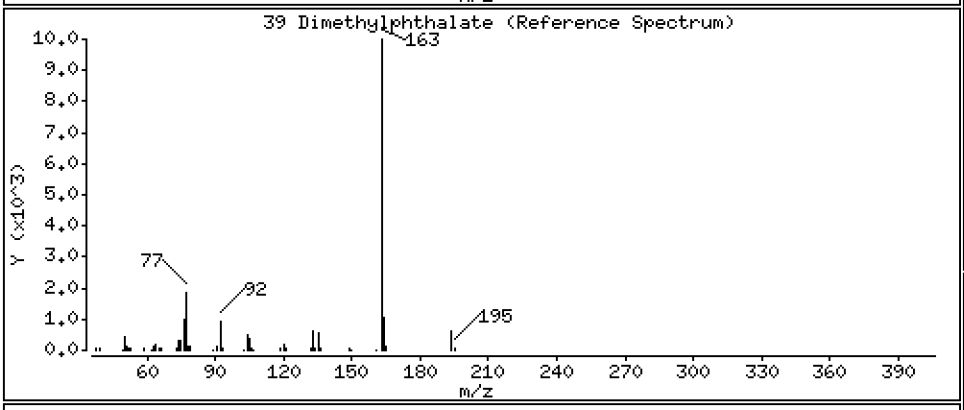
Column diameter: 0.25

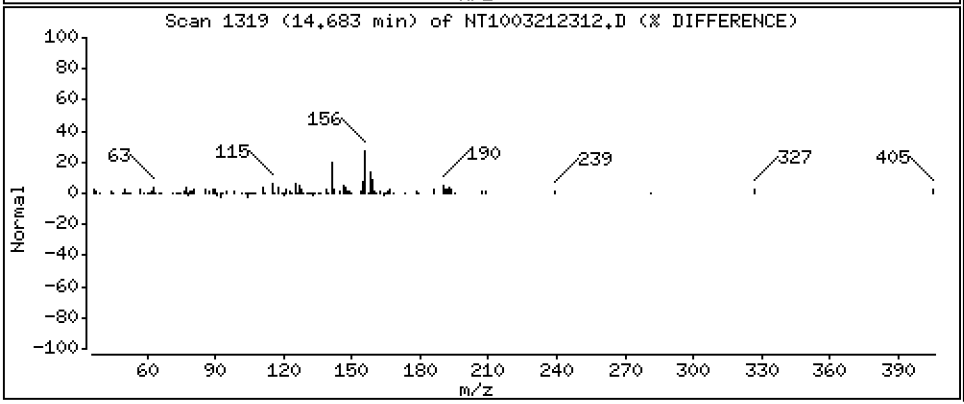
39 Dimethylphthalate

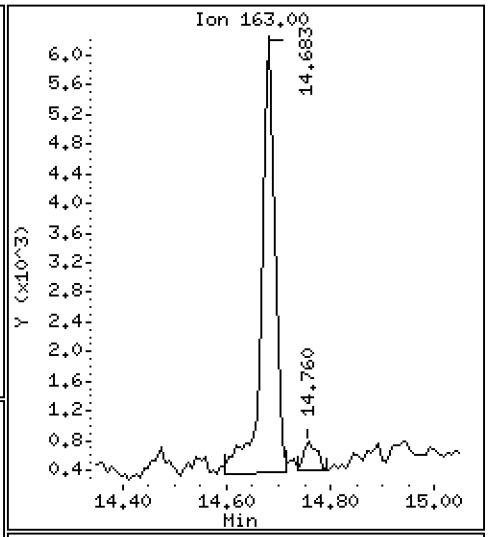
Concentration: 0.07603 ug/mL

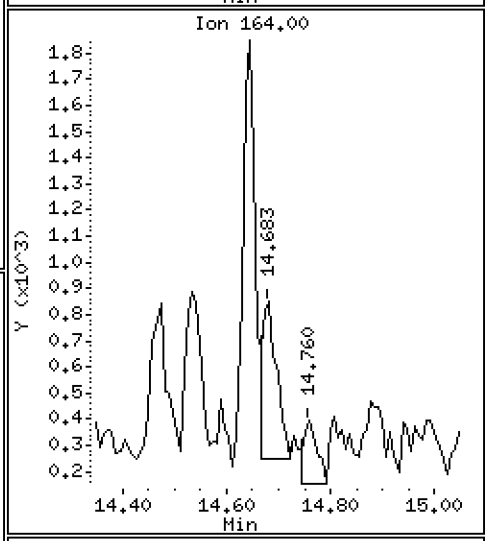


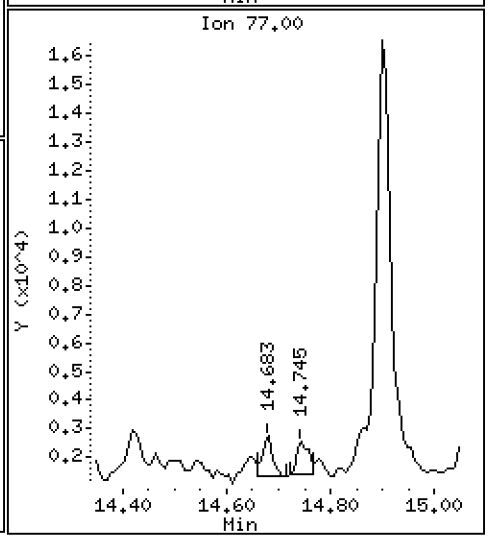












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Date : 22-MAR-2023 00:13

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-03

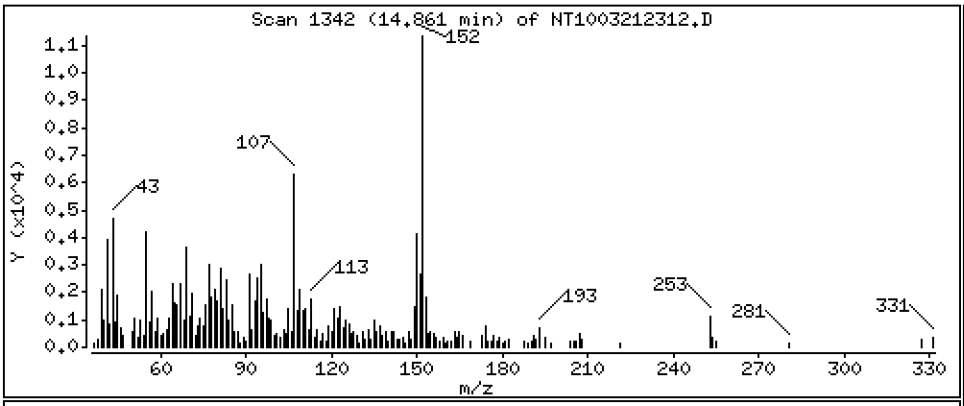
Operator: VTS

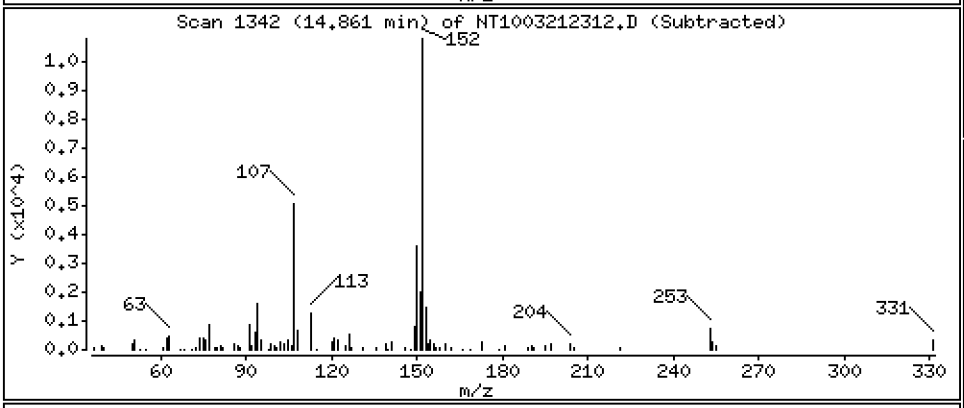
Column phase: ZB-5msi

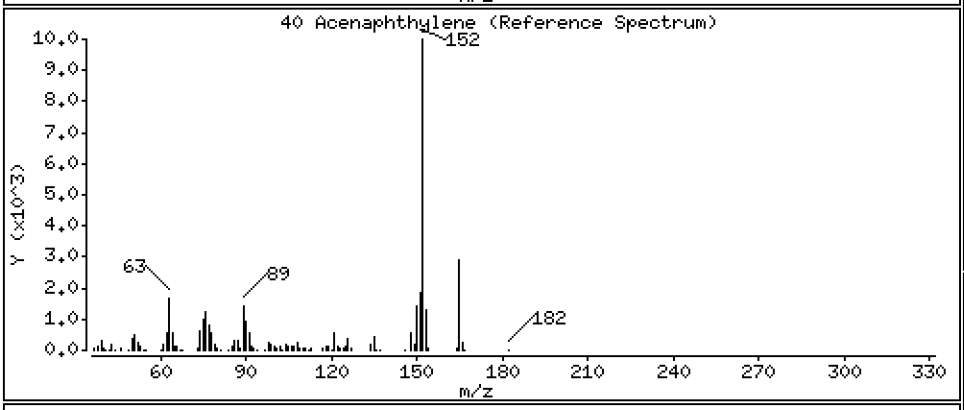
Column diameter: 0.25

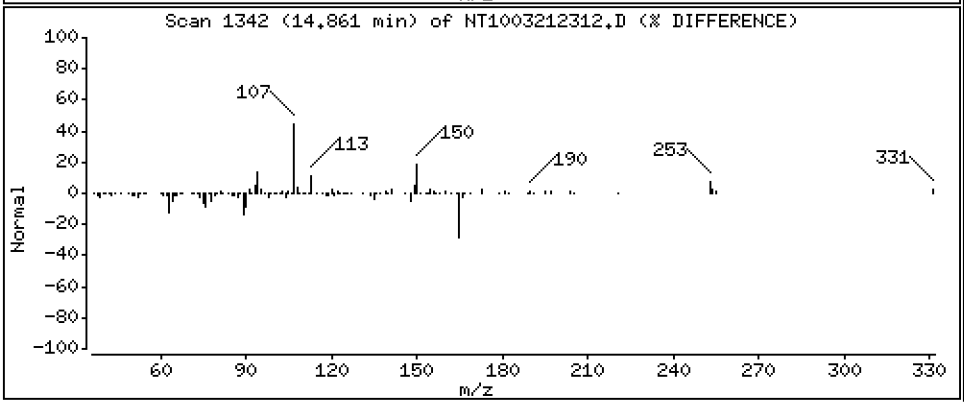
40 Acenaphthylene

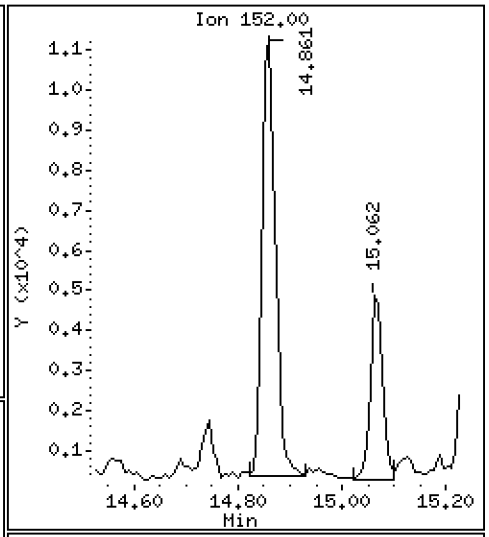
Concentration: 0.09085 ug/mL

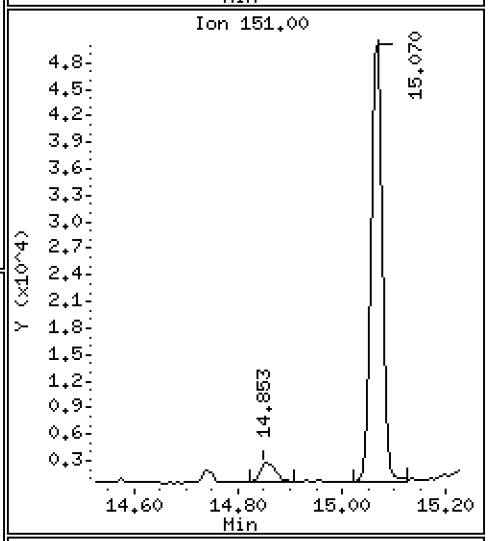


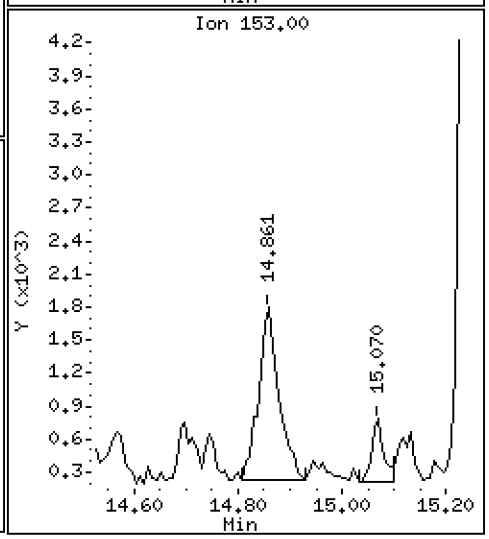












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Date : 22-MAR-2023 00:13

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-03

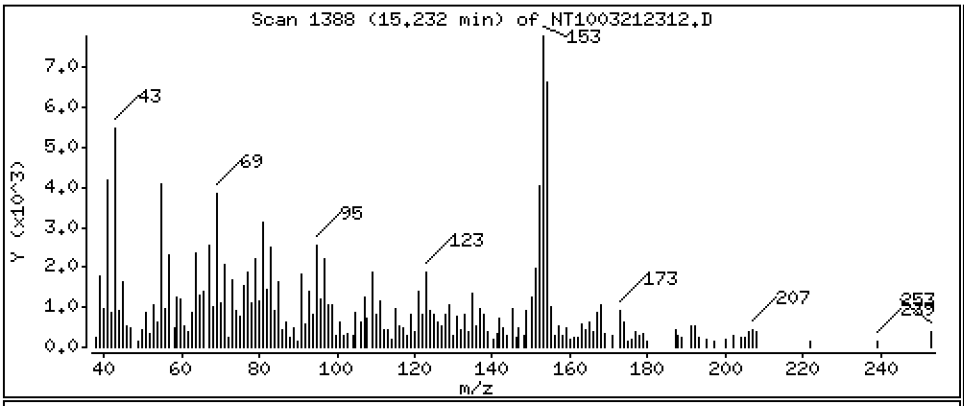
Operator: VTS

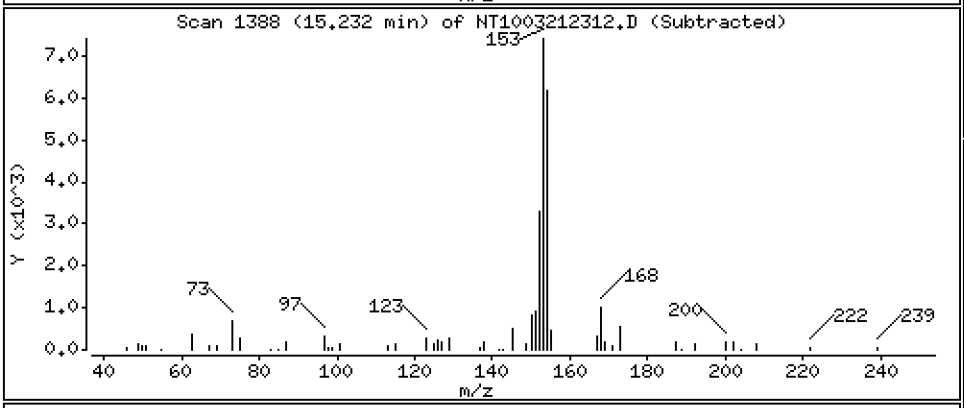
Column phase: ZB-5msi

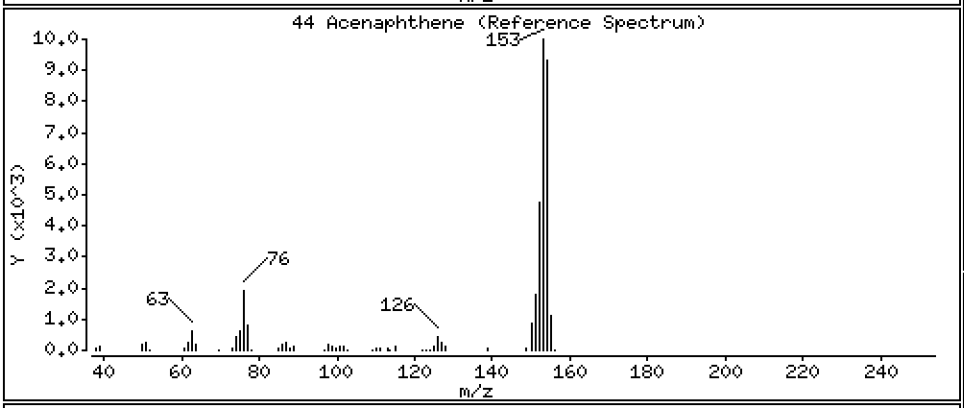
Column diameter: 0.25

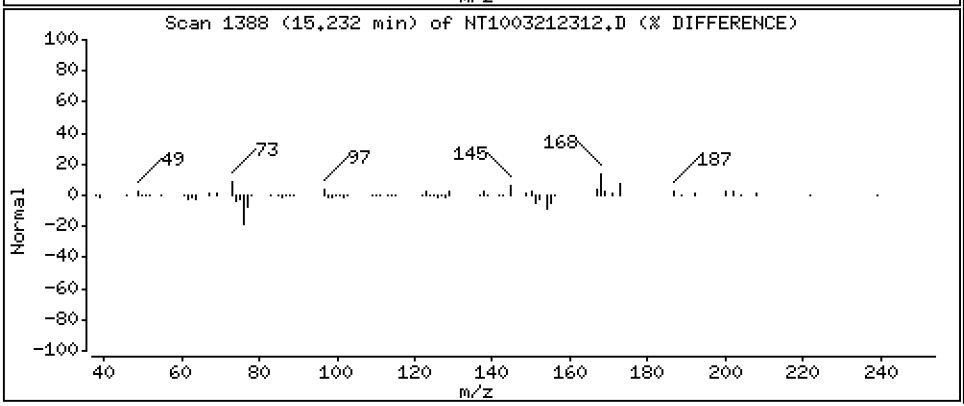
44 Acenaphthene

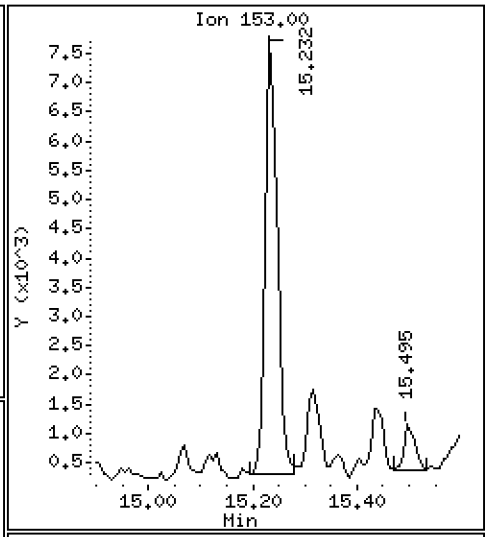
Concentration: 0.08890 ug/mL

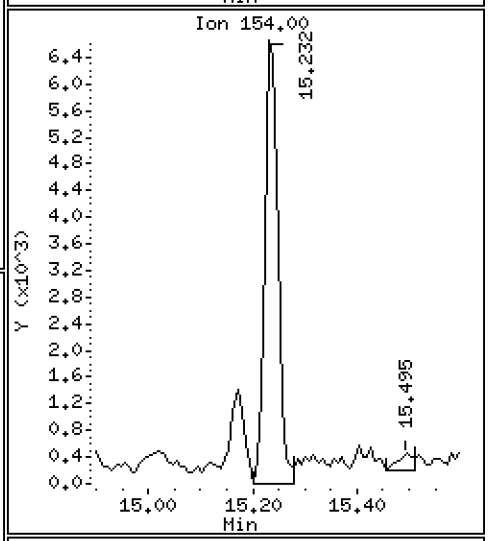


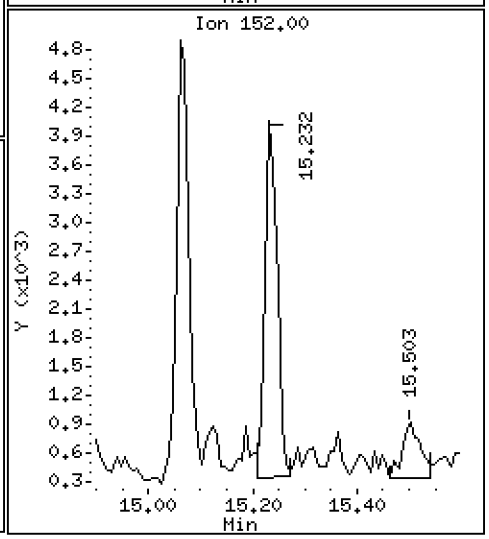












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212312.D

Date : 22-MAR-2023 00:13

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-03

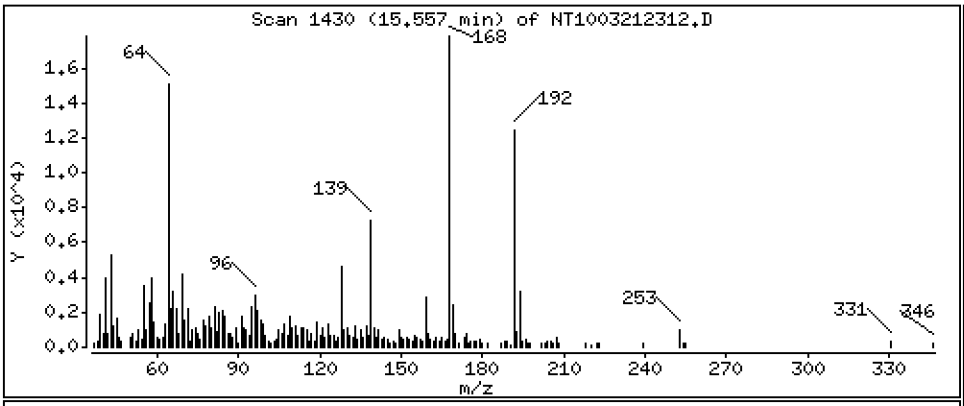
Operator: VTS

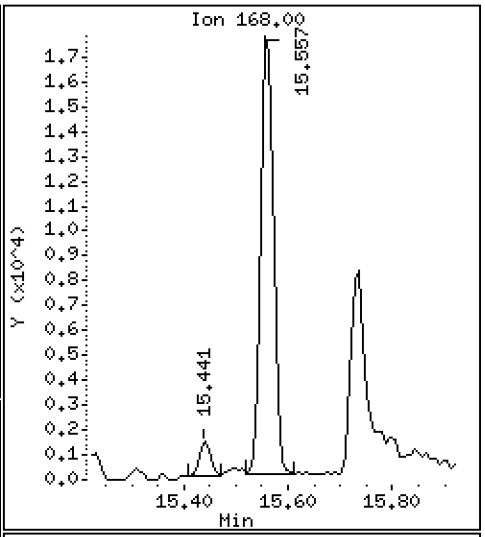
Column phase: ZB-5msi

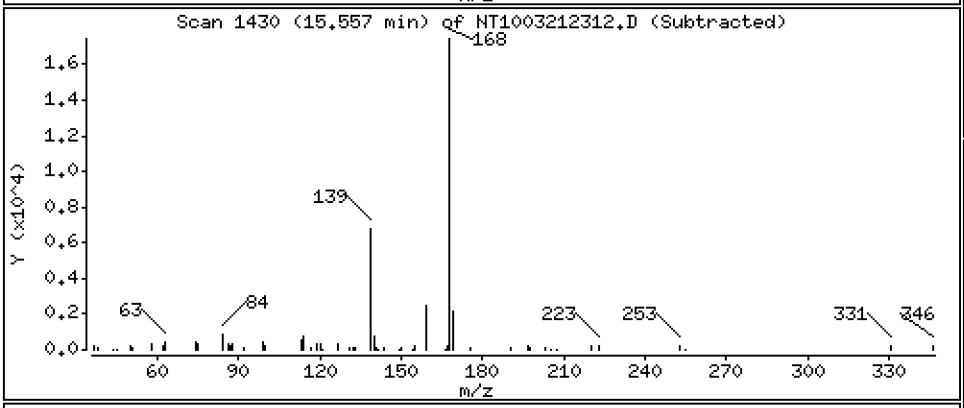
Column diameter: 0.25

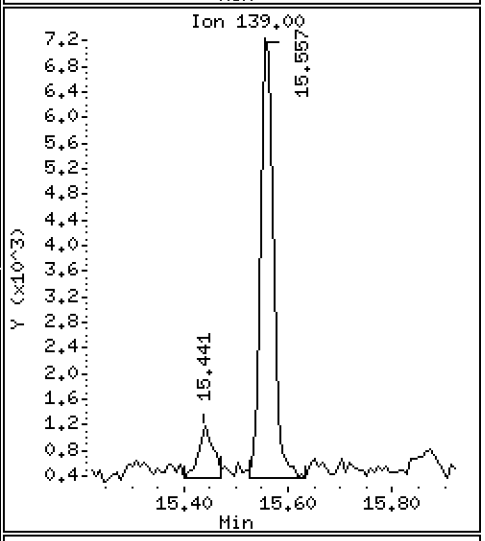
46 Dibenzofuran

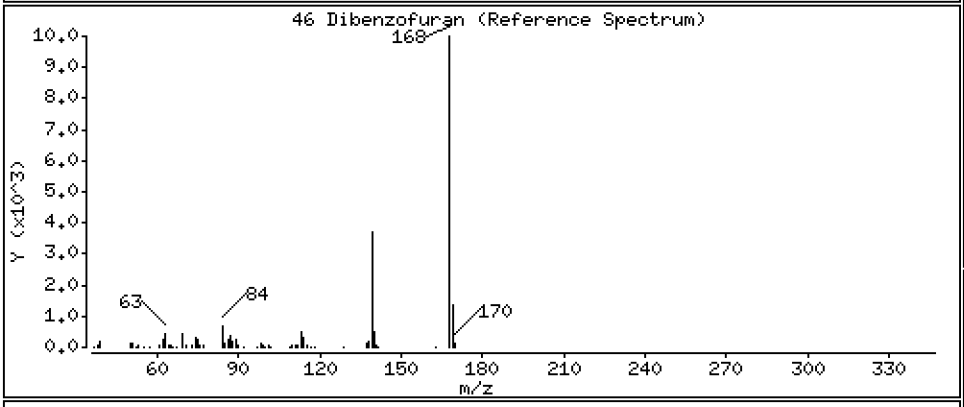
Concentration: 0.1498 ug/mL

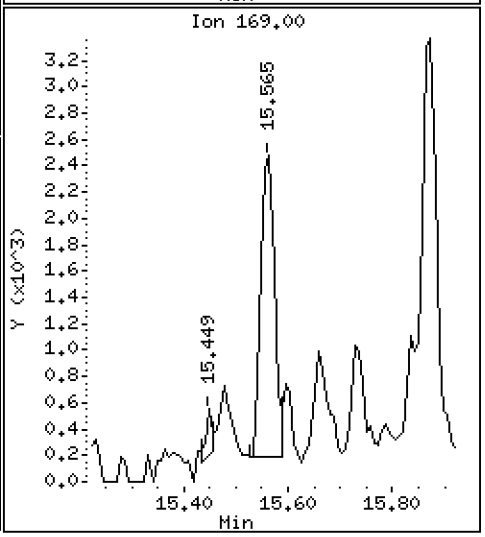


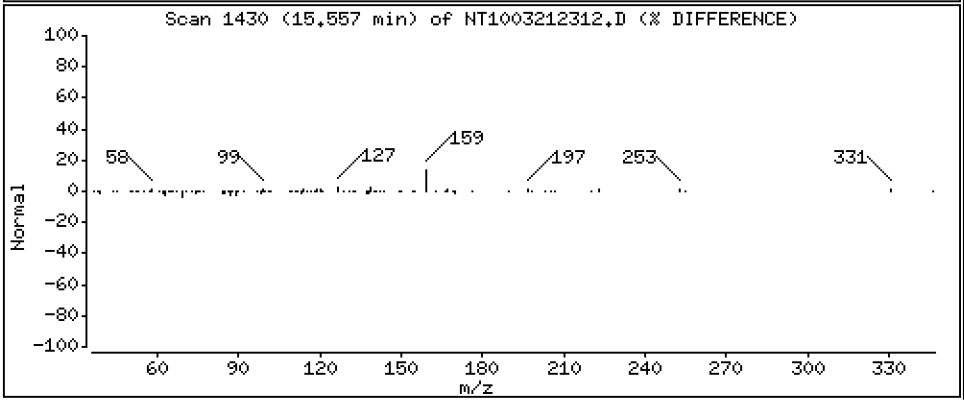












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Date : 22-MAR-2023 00:13

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-03

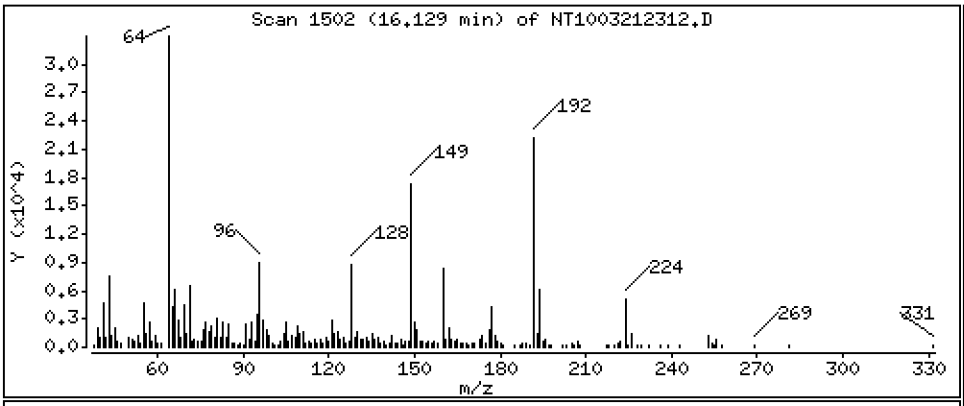
Operator: VTS

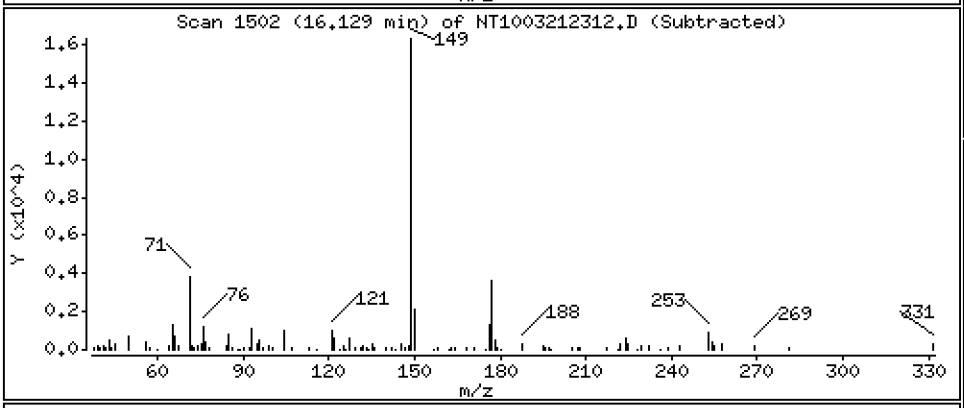
Column phase: ZB-5msi

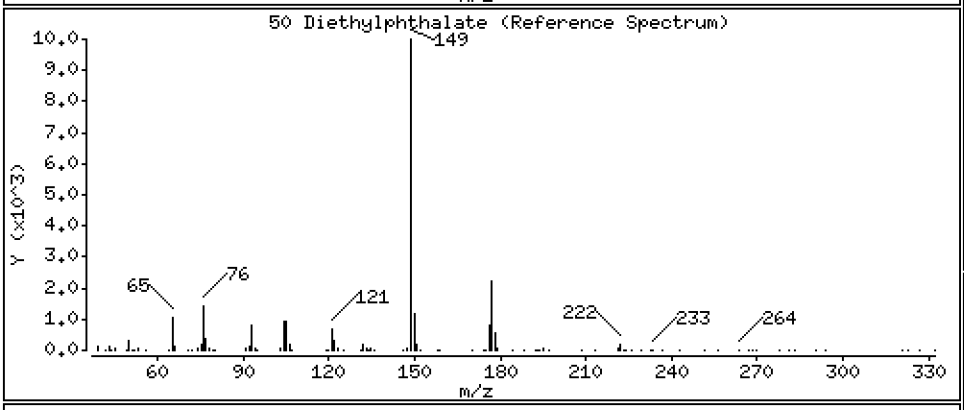
Column diameter: 0.25

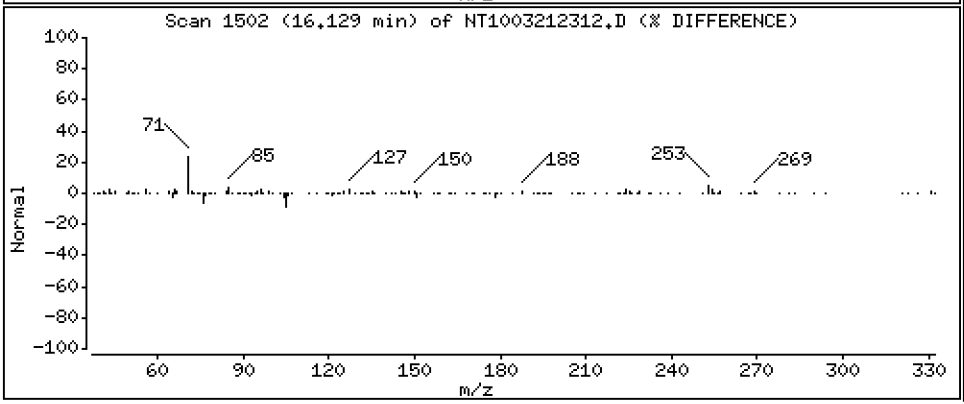
50 Diethylphthalate

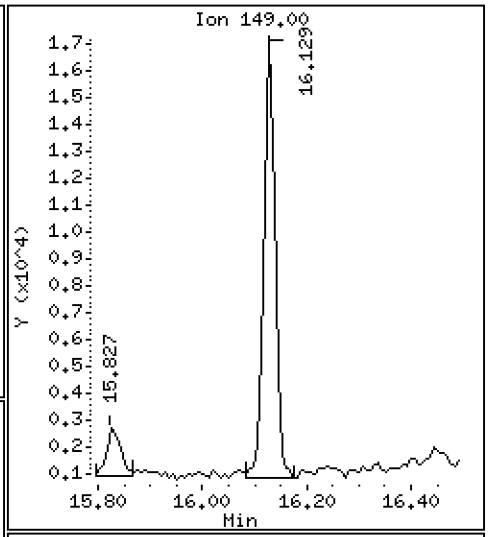
Concentration: 0.1722 ug/mL

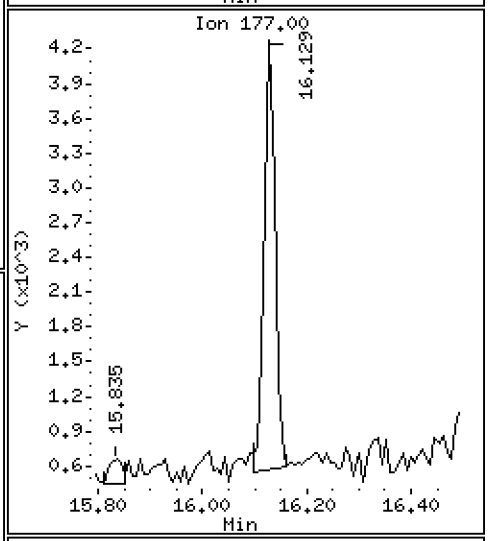


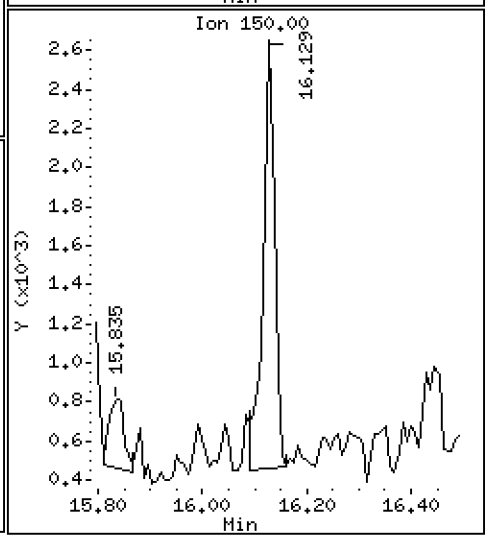












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Date : 22-MAR-2023 00:13

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-03

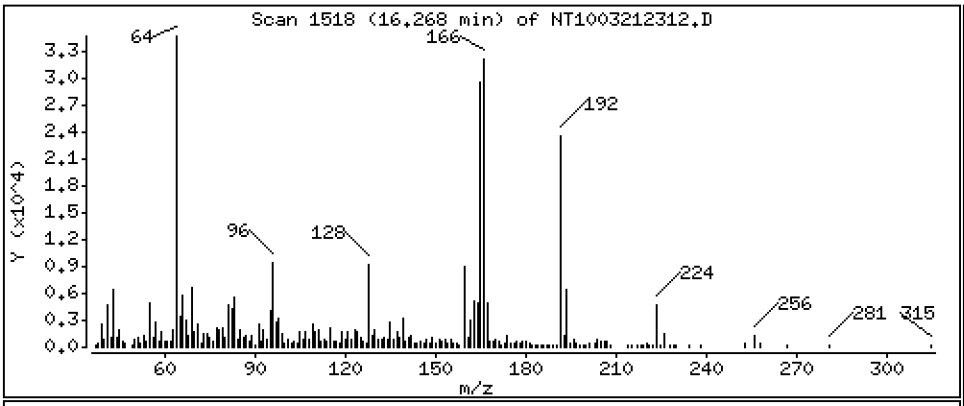
Operator: VTS

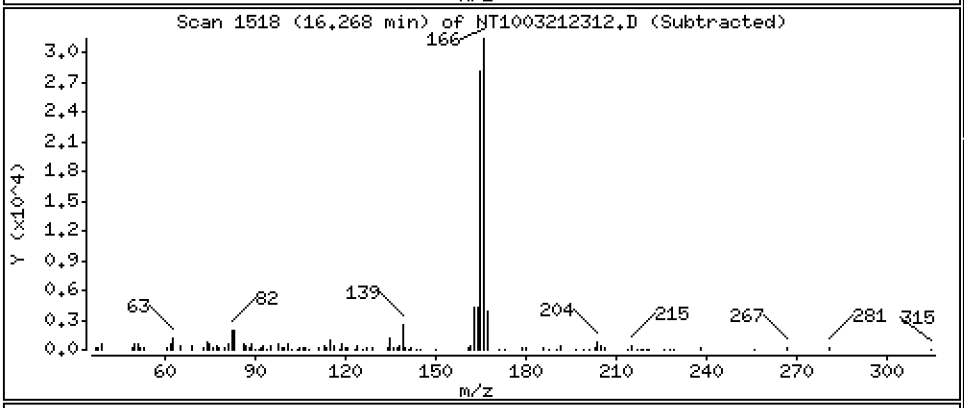
Column phase: ZB-5msi

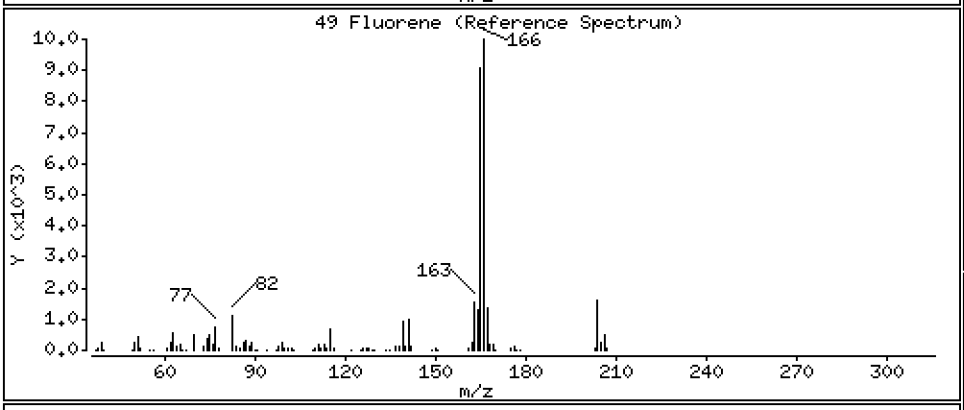
Column diameter: 0.25

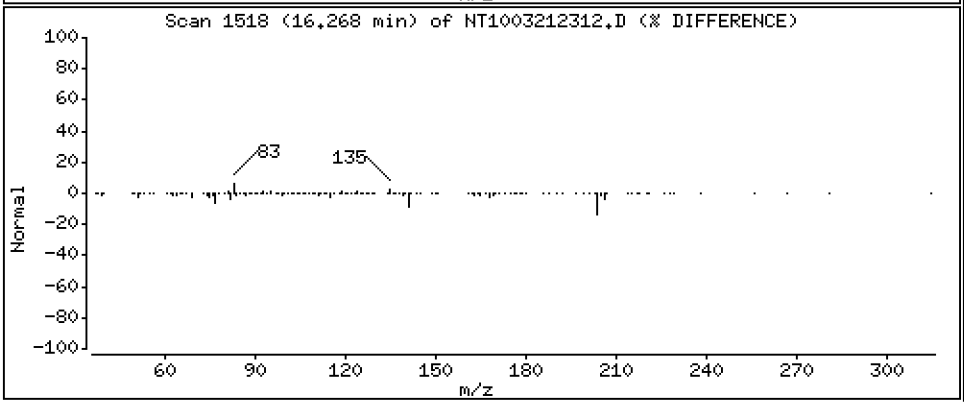
49 Fluorene

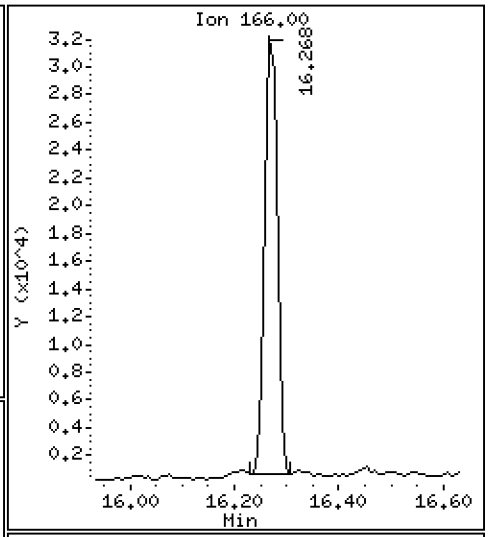
Concentration: 0.3333 ug/mL

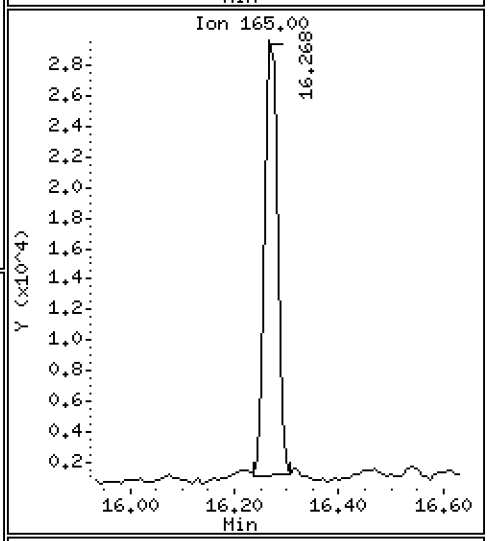


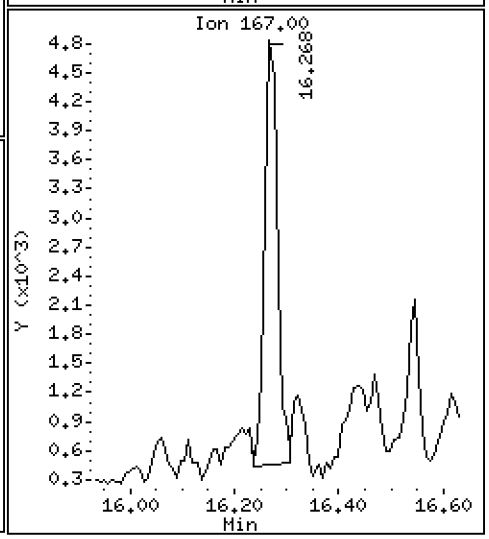












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Date : 22-MAR-2023 00:13

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-03

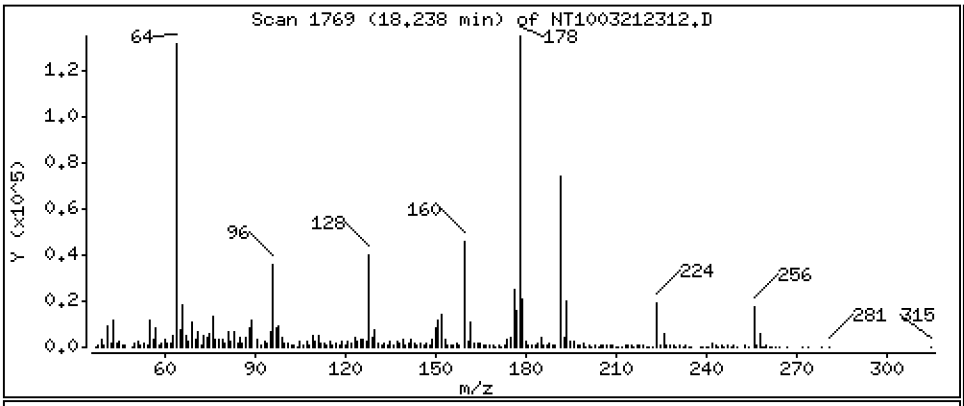
Operator: VTS

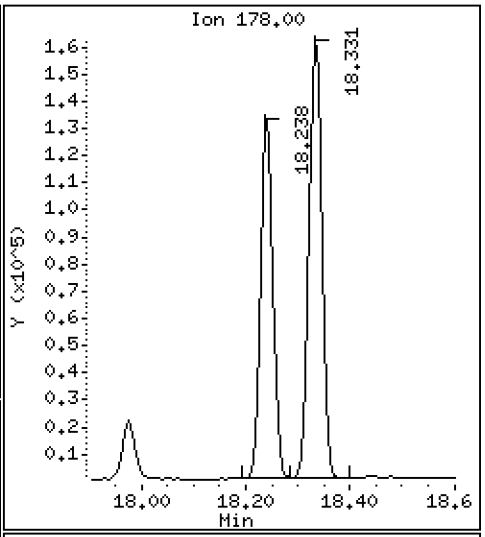
Column phase: ZB-5msi

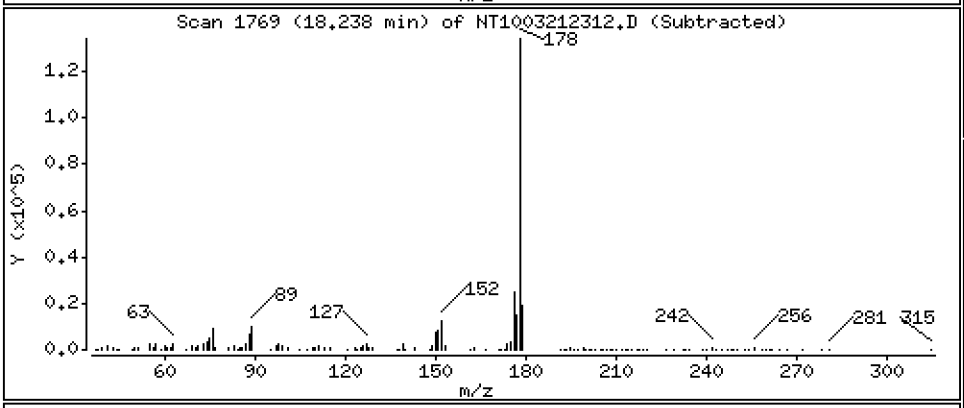
Column diameter: 0.25

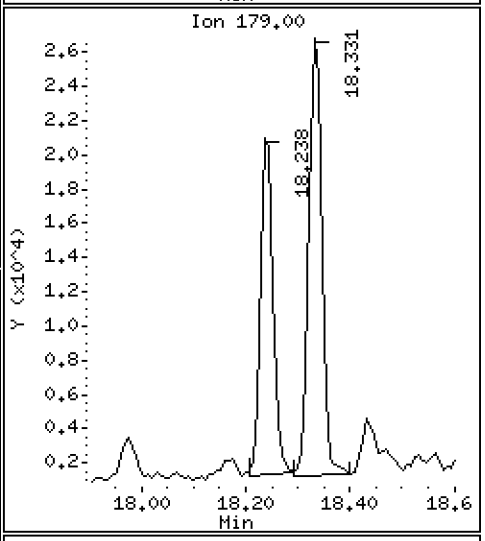
60 Phenanthrene

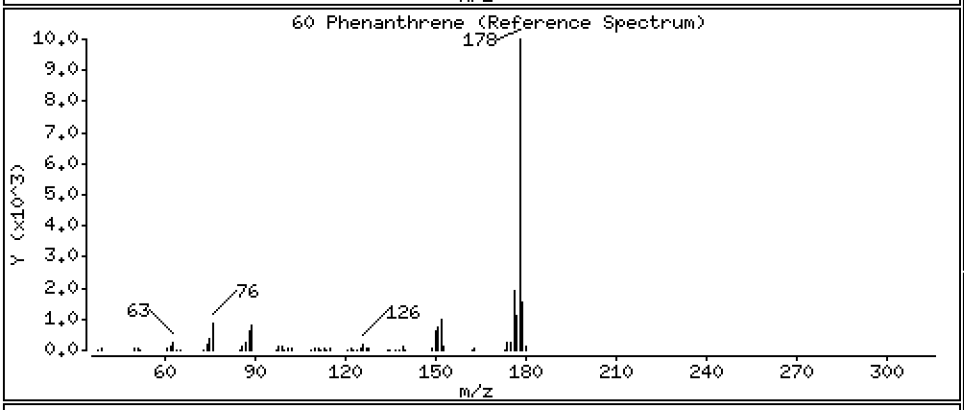
Concentration: 1.023 ug/mL

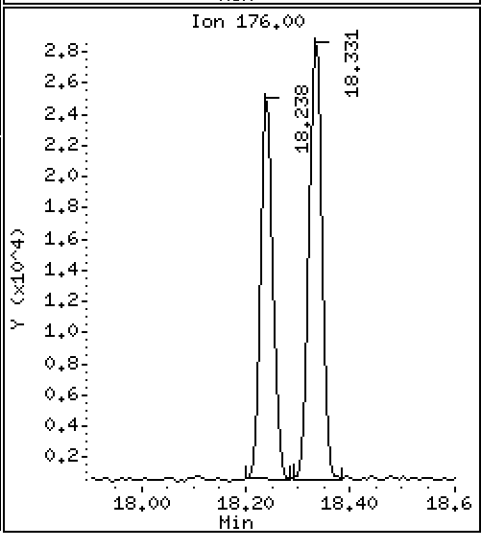


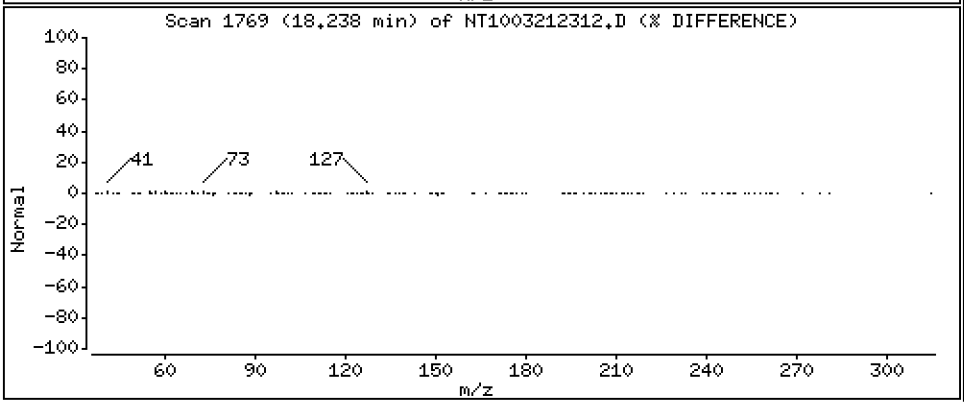












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Date : 22-MAR-2023 00:13

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-03

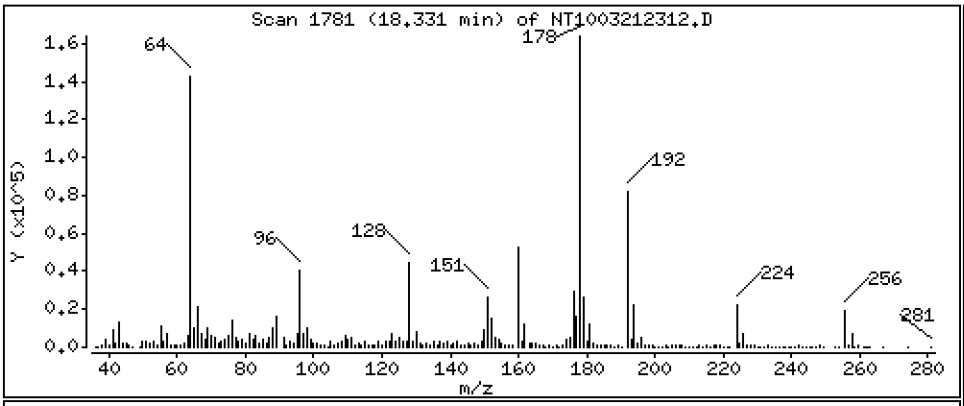
Operator: VTS

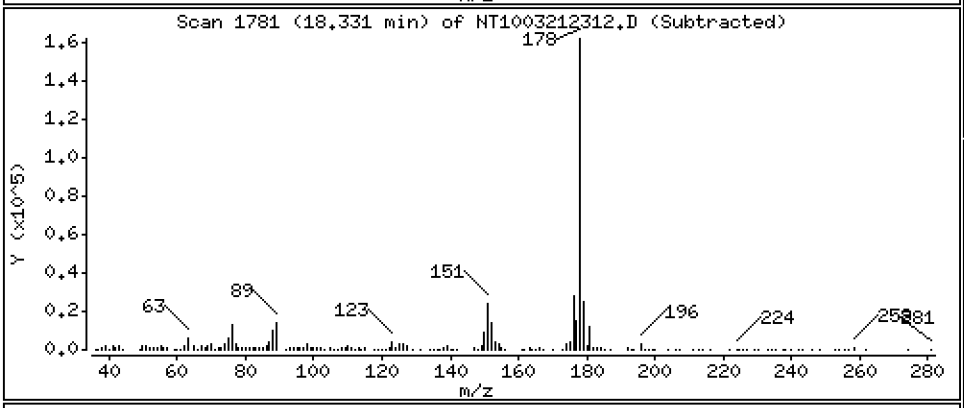
Column phase: ZB-5msi

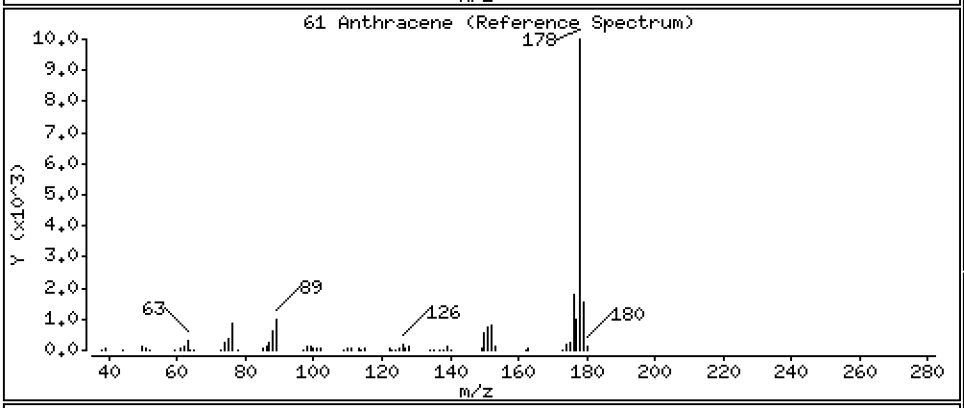
Column diameter: 0.25

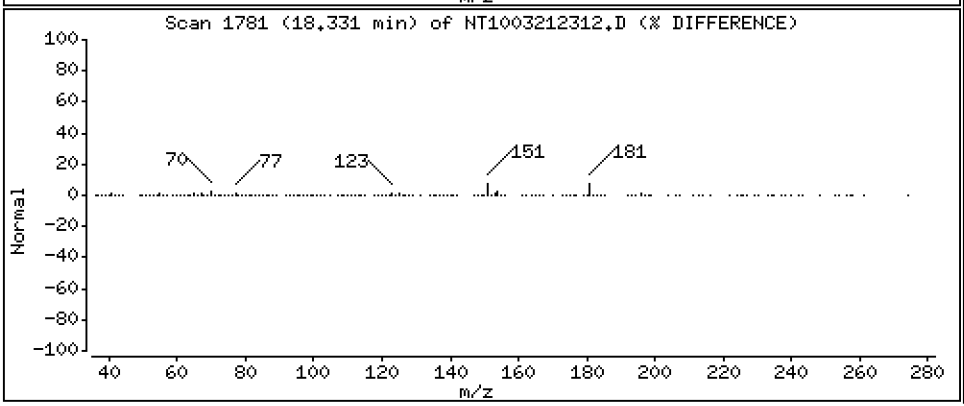
61 Anthracene

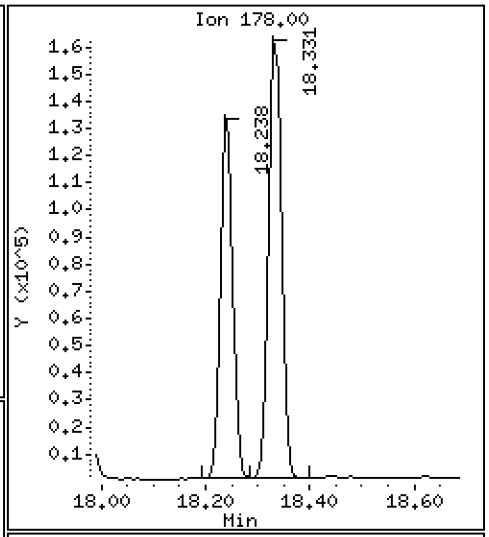
Concentration: 1.294 ug/mL

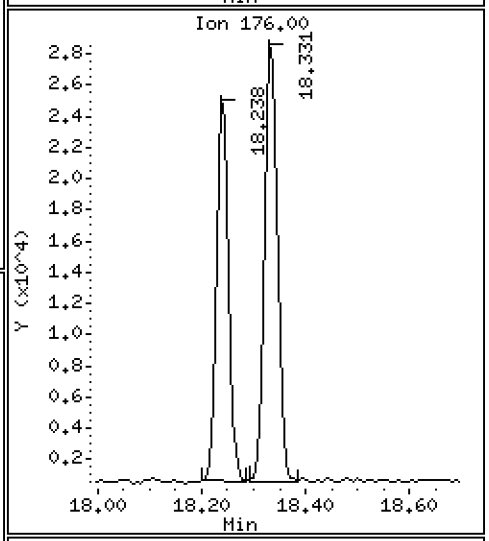


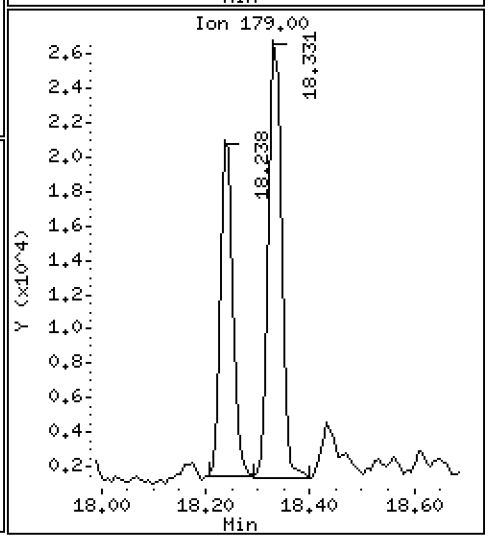












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Date : 22-MAR-2023 00:13

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-03

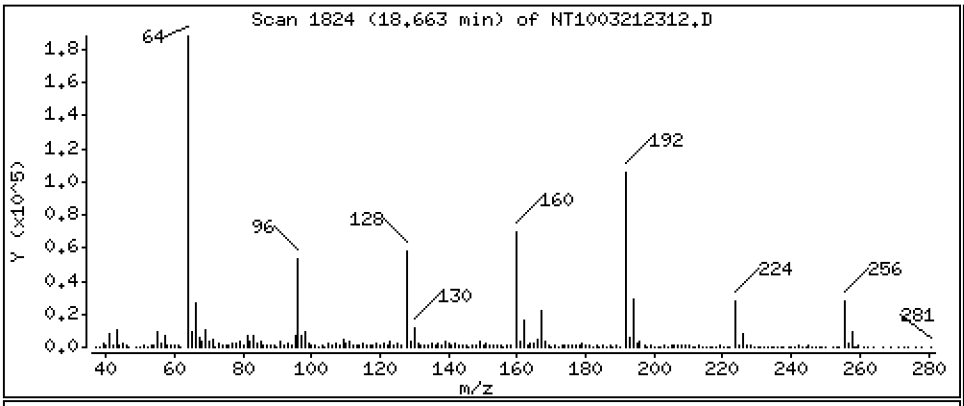
Operator: VTS

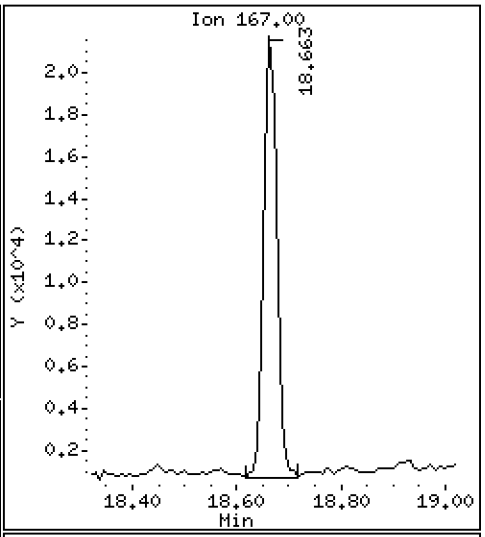
Column phase: ZB-5msi

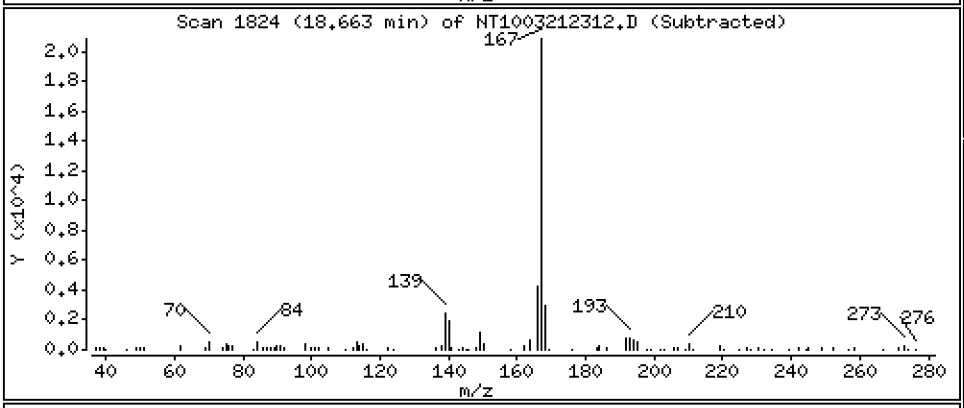
Column diameter: 0.25

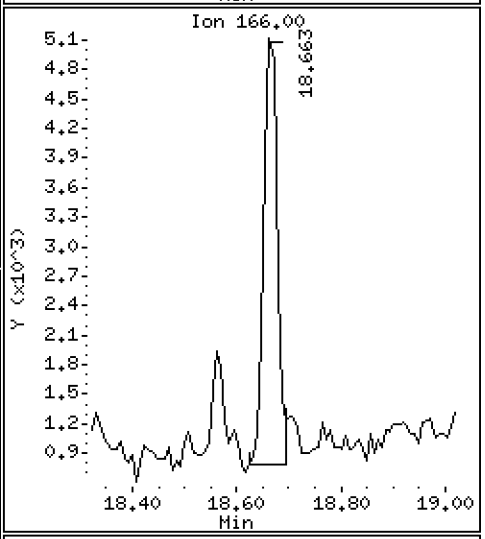
62 Carbazole

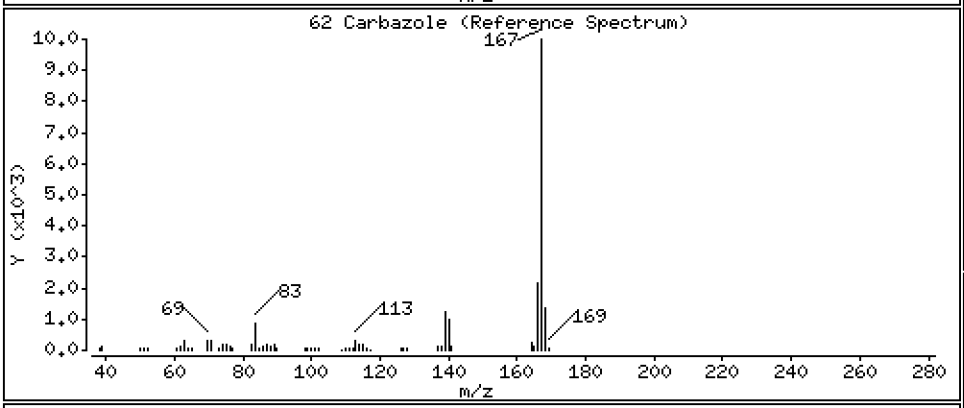
Concentration: 0.1905 ug/mL

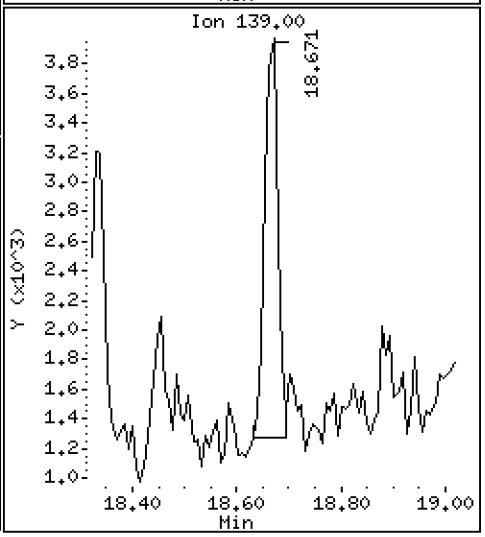


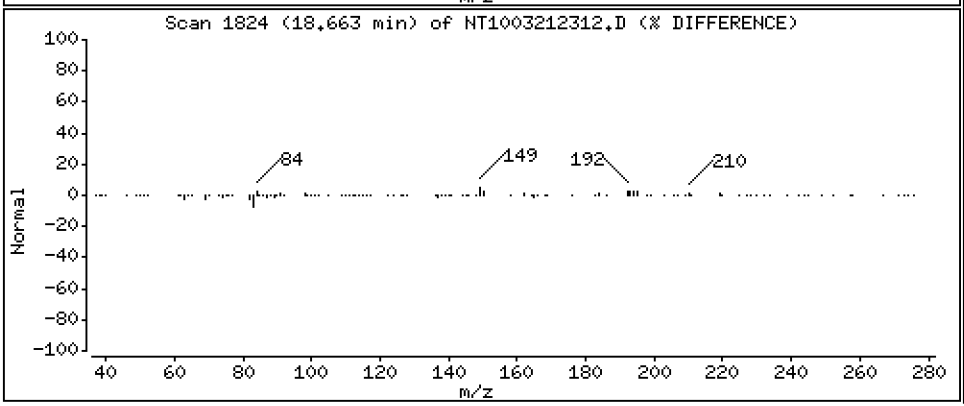












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Date : 22-MAR-2023 00:13

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-03

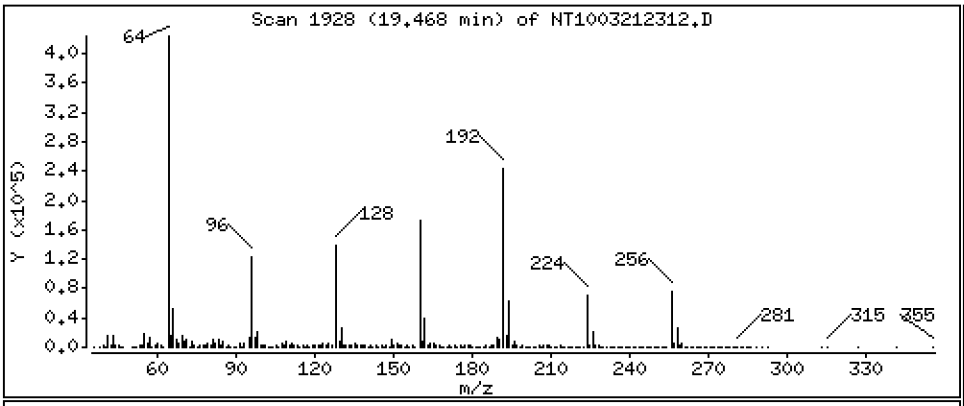
Operator: VTS

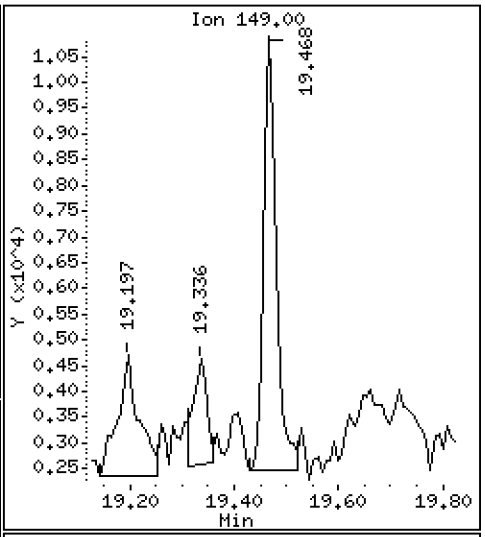
Column phase: ZB-5msi

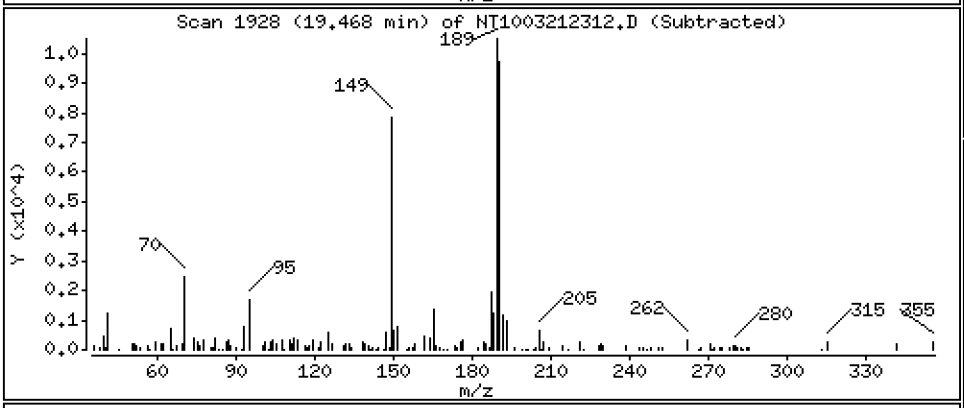
Column diameter: 0.25

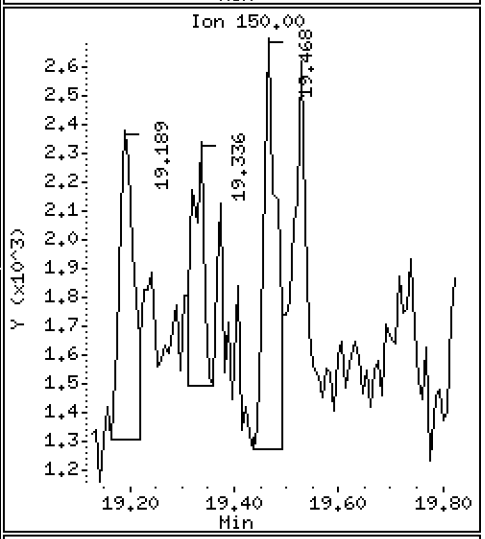
63 Di-n-butylphthalate

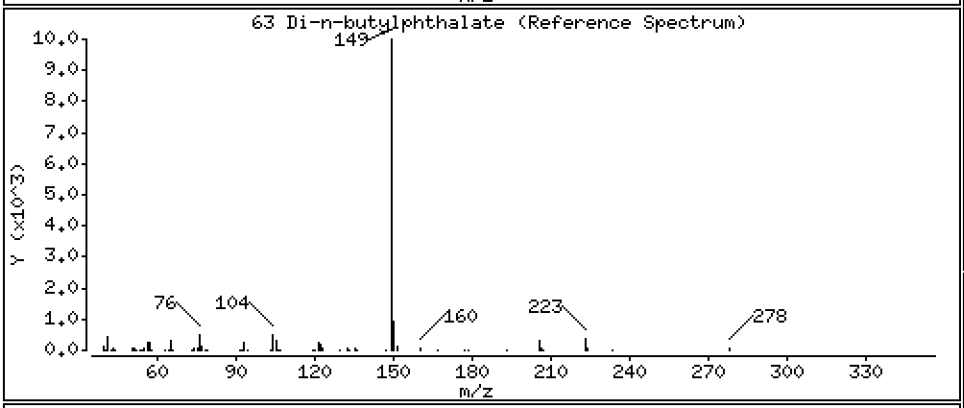
Concentration: 0.05648 ug/mL

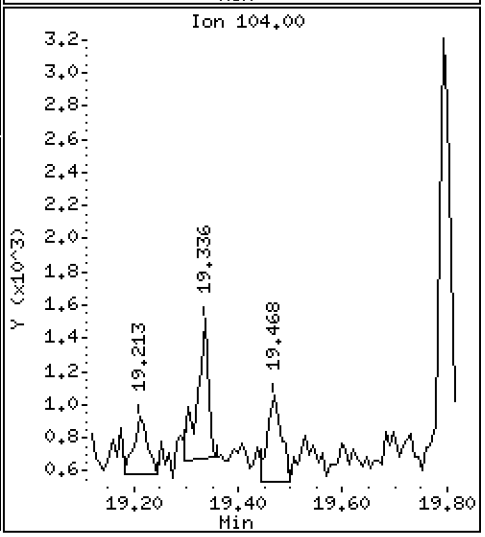


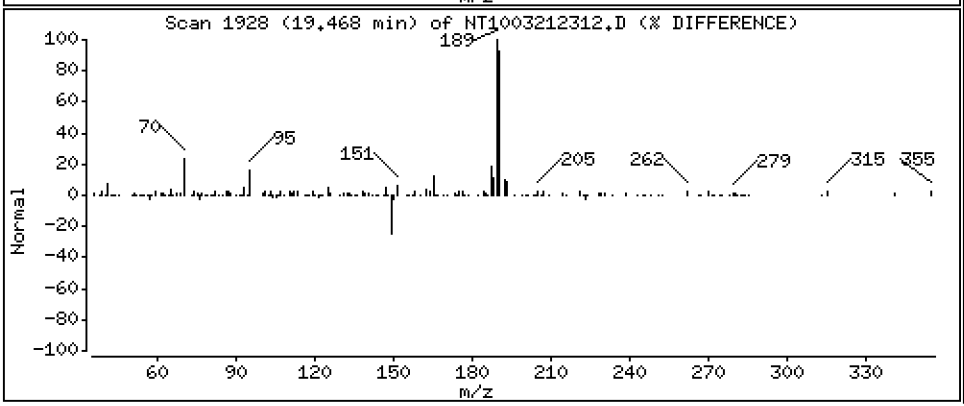












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212312.D

Date : 22-MAR-2023 00:13

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-03

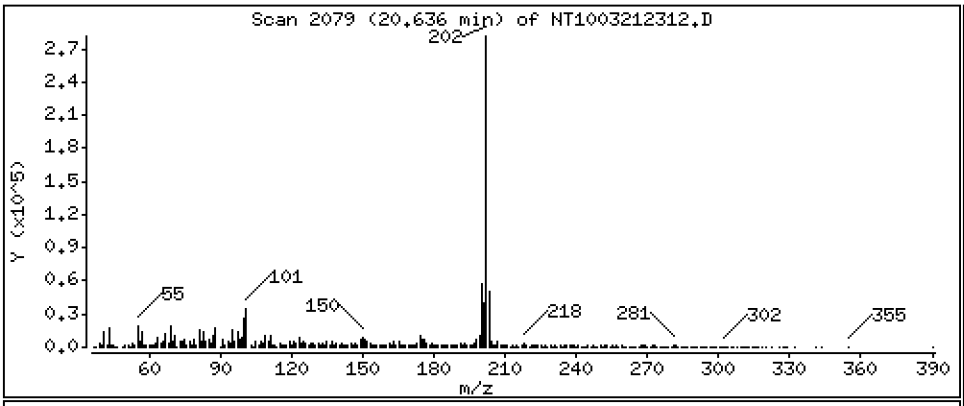
Operator: VTS

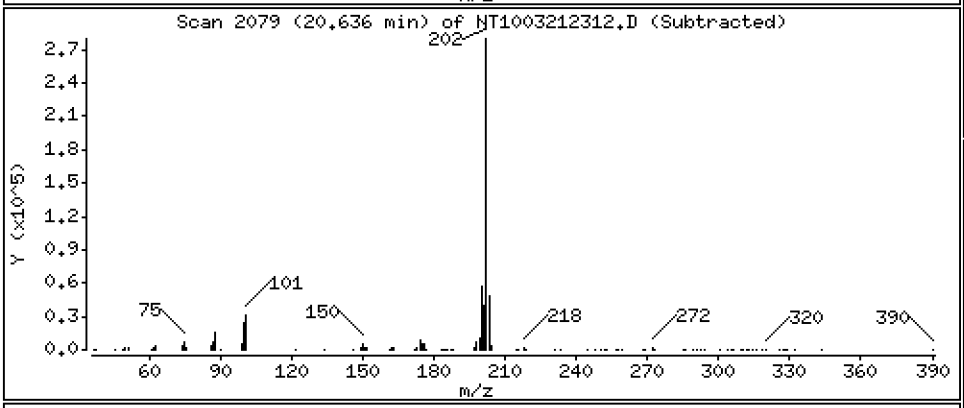
Column phase: ZB-5msi

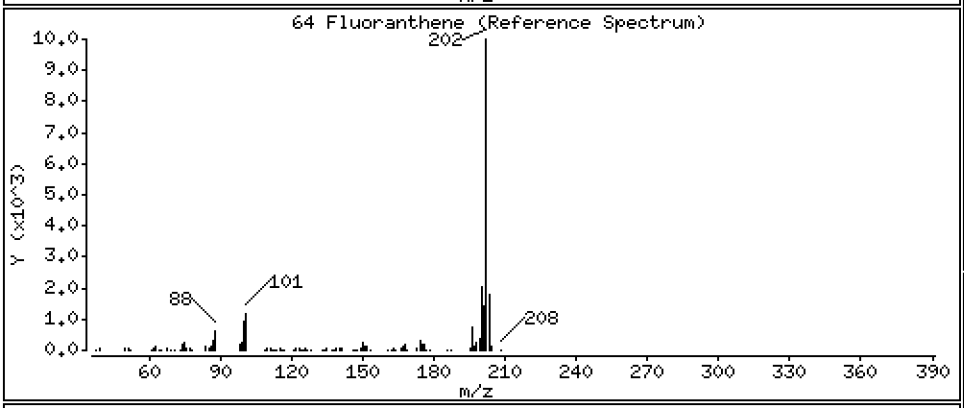
Column diameter: 0.25

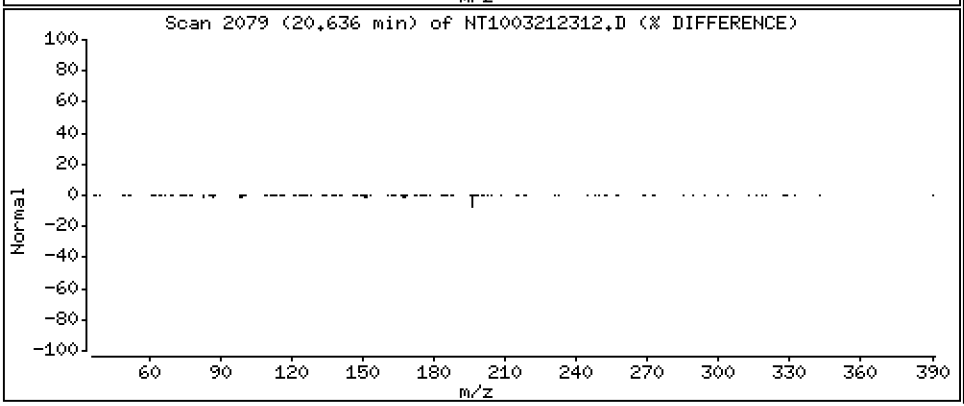
64 Fluoranthene

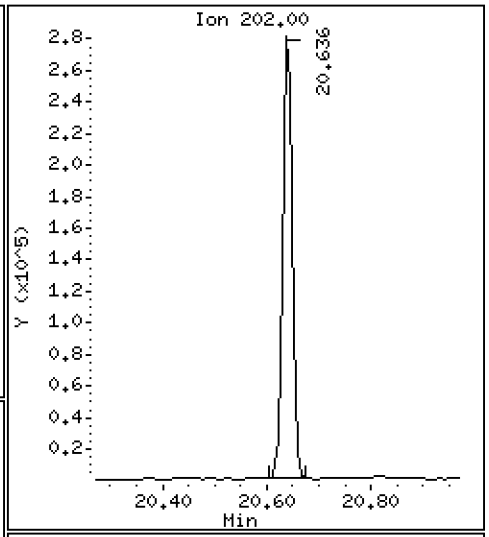
Concentration: 1.318 ug/mL

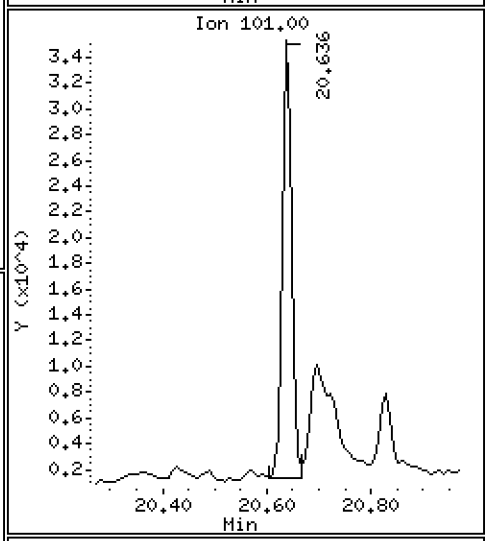


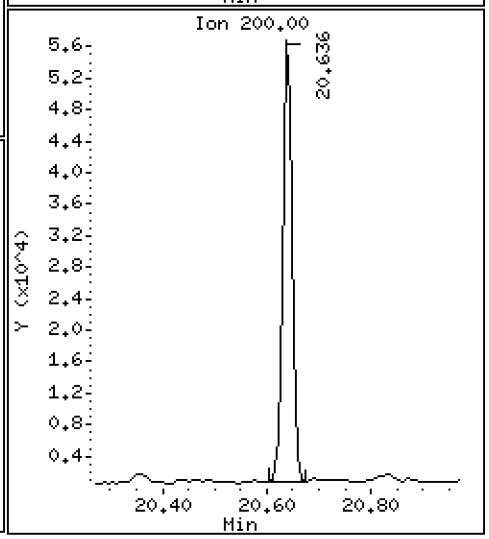












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212312.D

Date : 22-MAR-2023 00:13

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-03

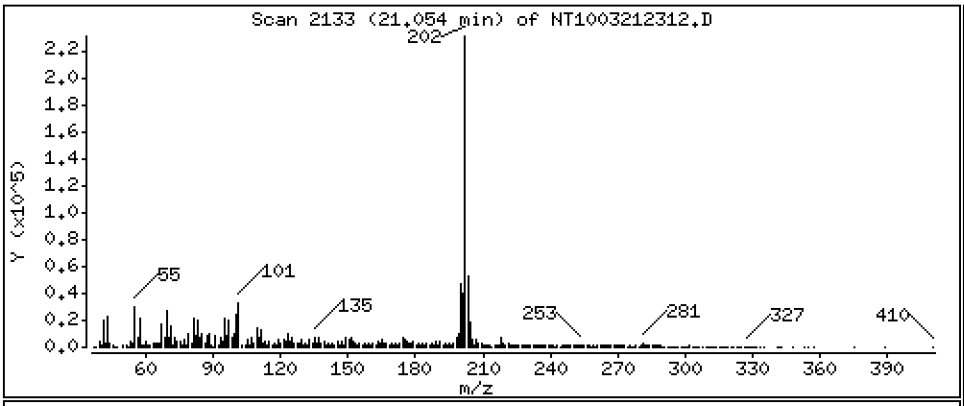
Operator: VTS

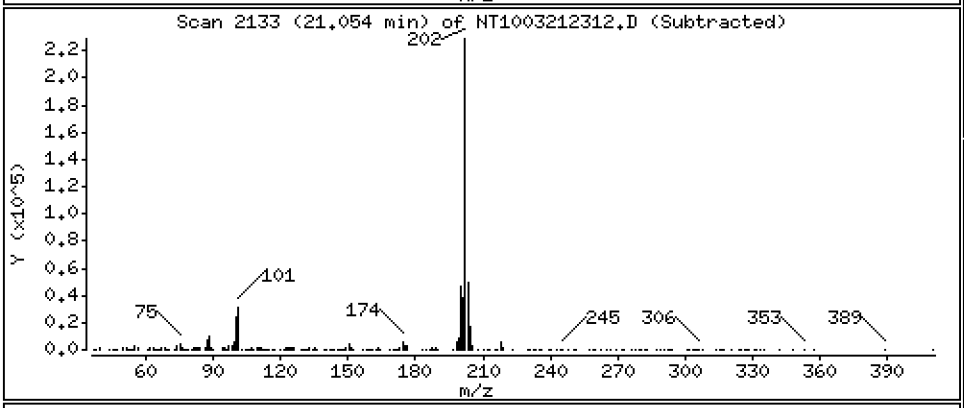
Column phase: ZB-5msi

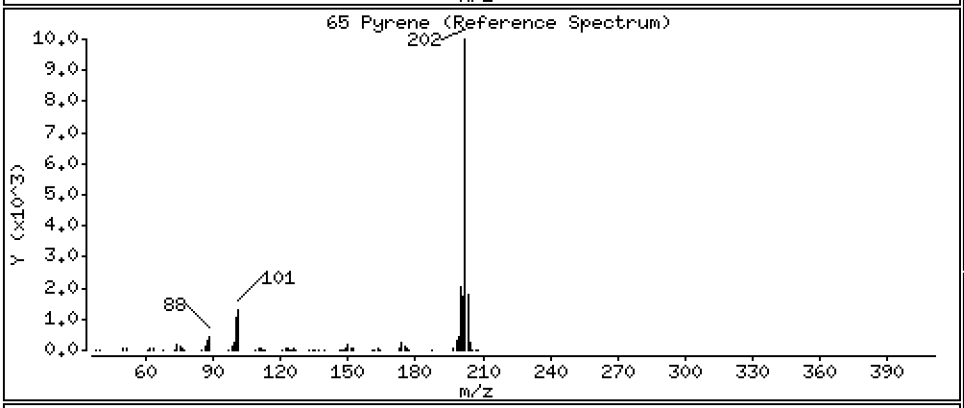
Column diameter: 0.25

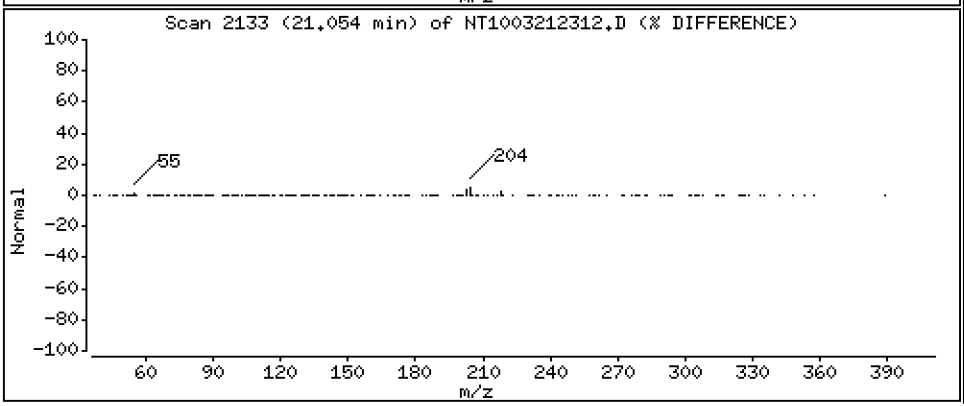
65 Pyrene

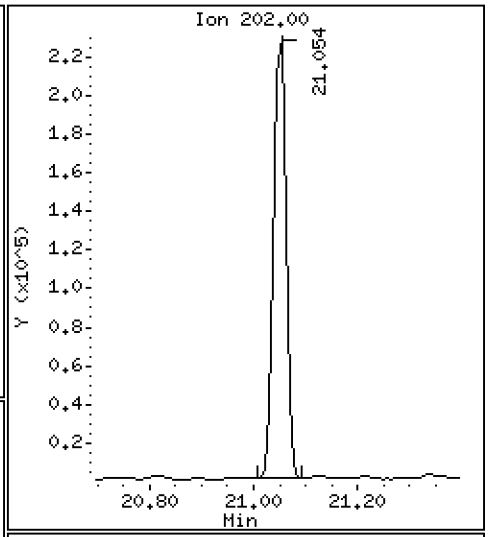
Concentration: 1.242 ug/mL

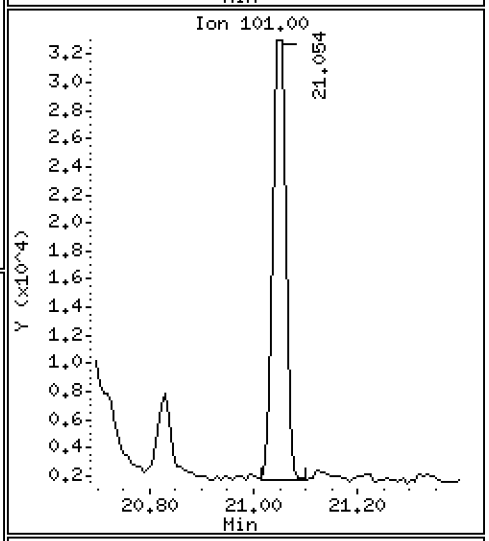


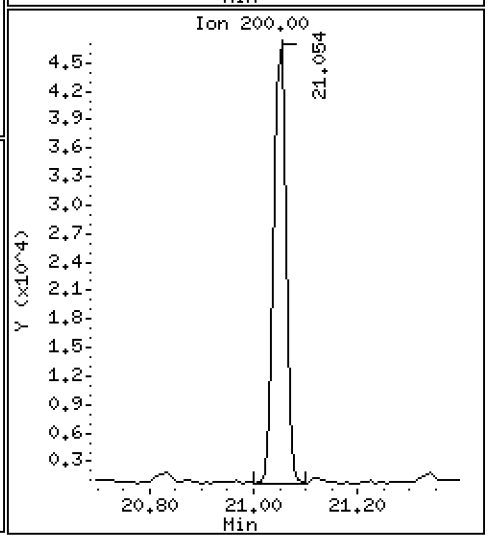












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212312.D

Date : 22-MAR-2023 00:13

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-03

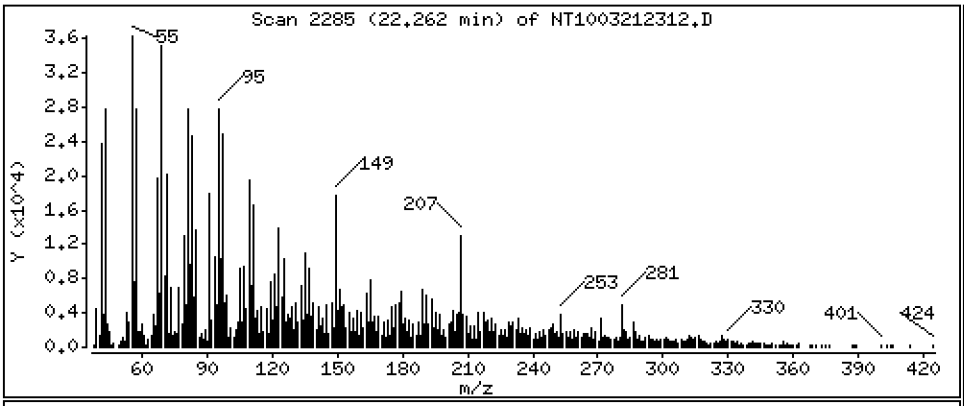
Operator: VTS

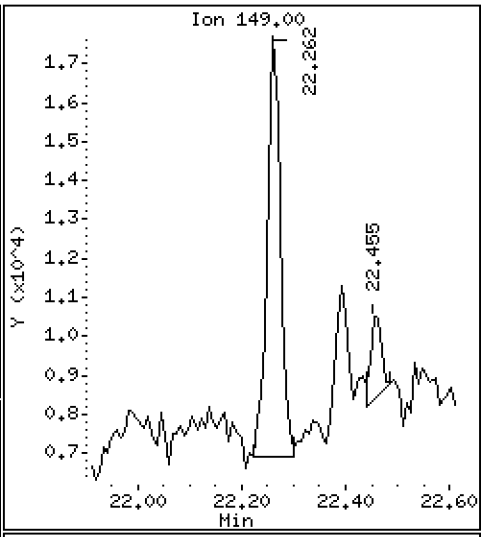
Column phase: ZB-5msi

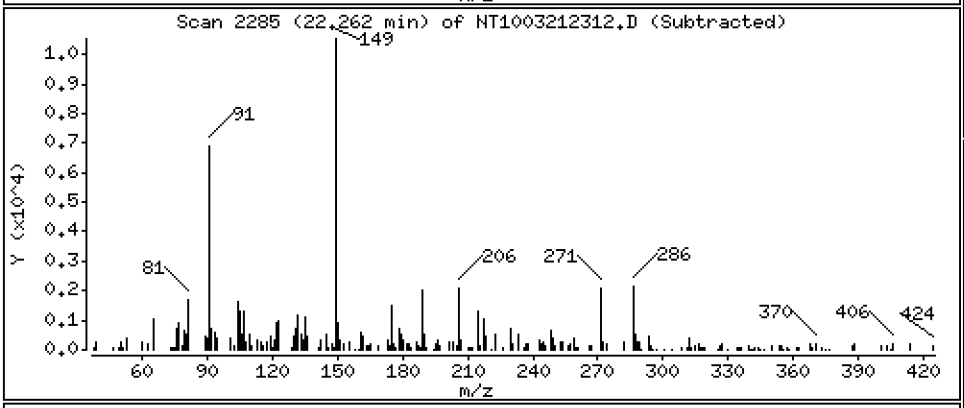
Column diameter: 0.25

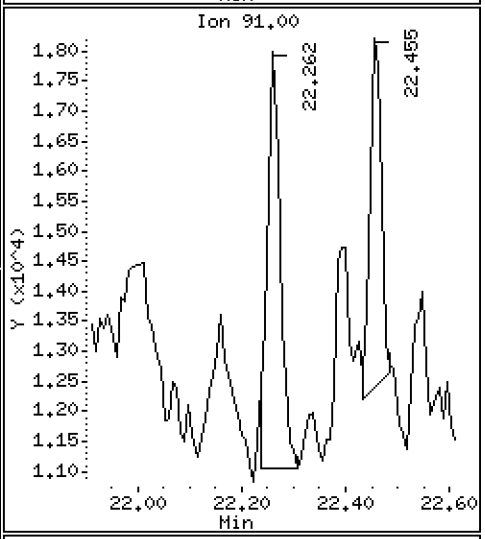
67 Butylbenzylphthalate

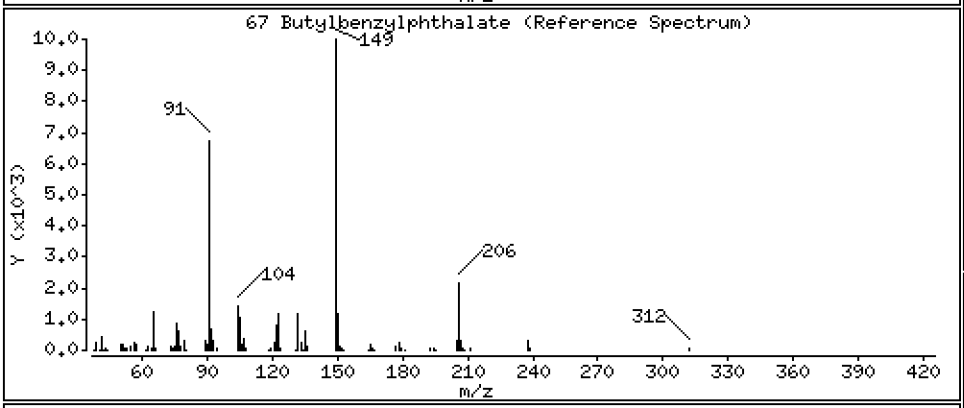
Concentration: 0.1774 ug/mL

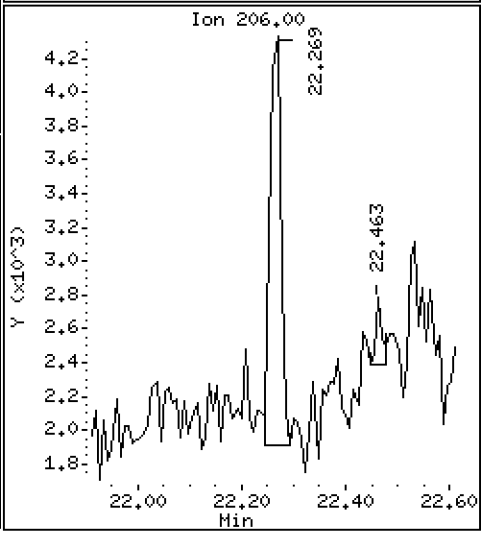


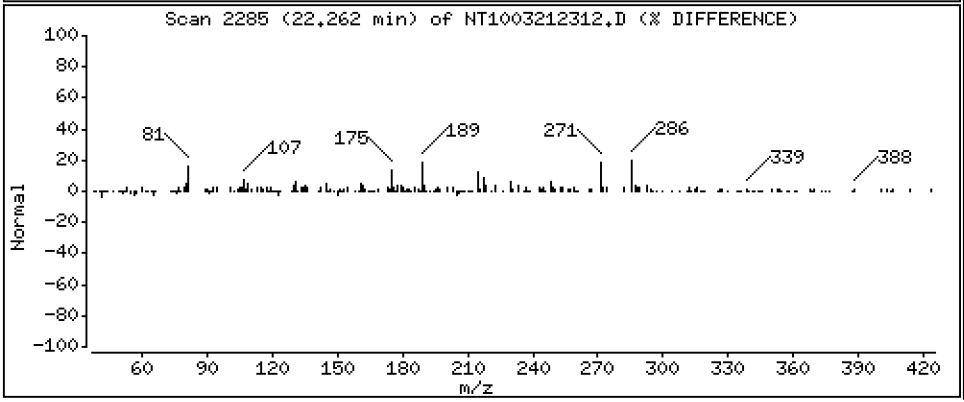












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212312.D

Date : 22-MAR-2023 00:13

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-03

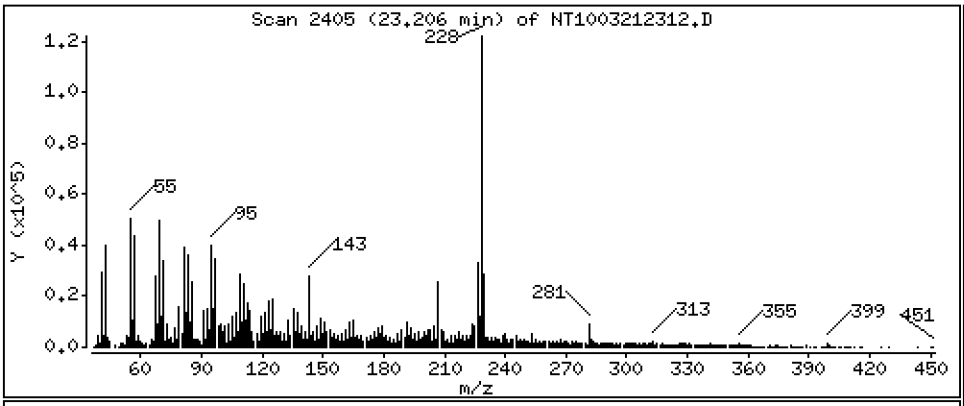
Operator: VTS

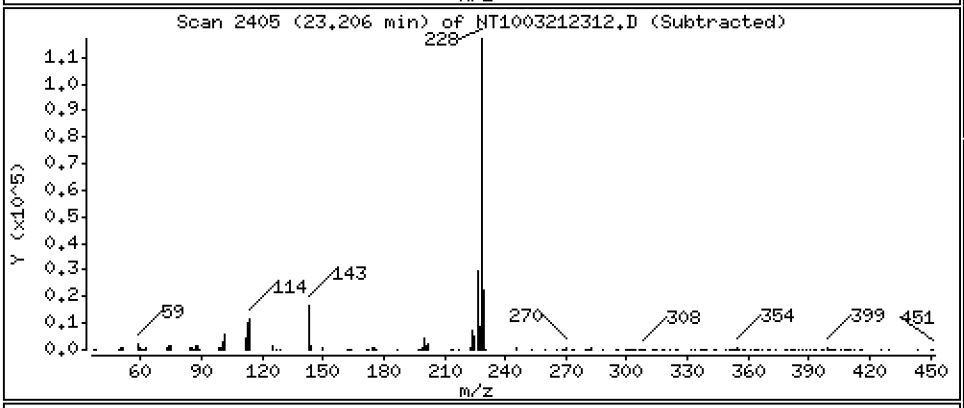
Column phase: ZB-5msi

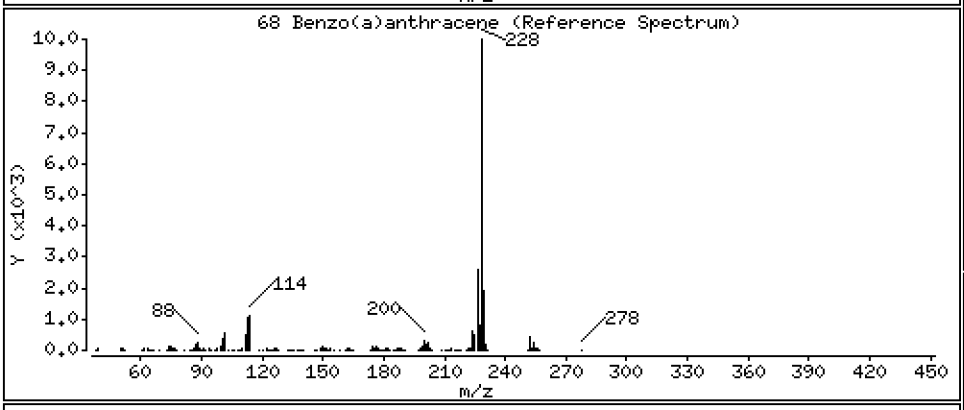
Column diameter: 0.25

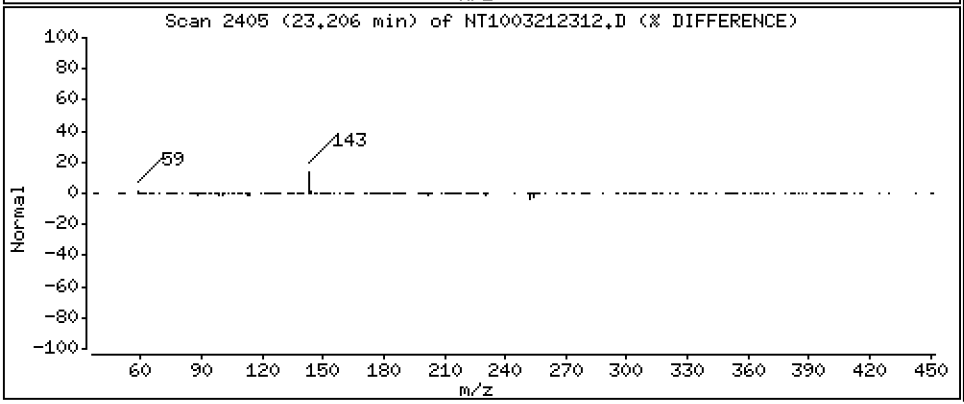
68 Benzo(a)anthracene

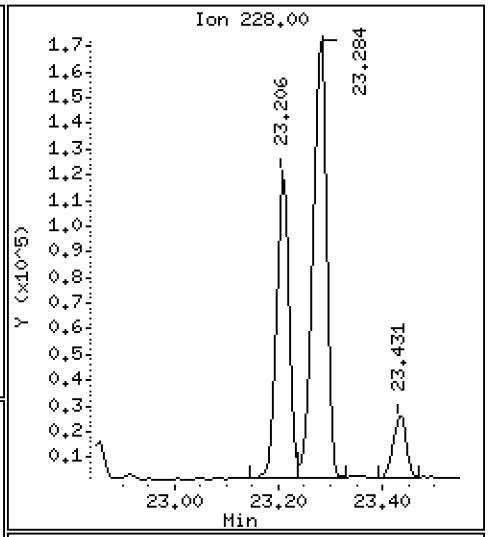
Concentration: 0.8005 ug/mL

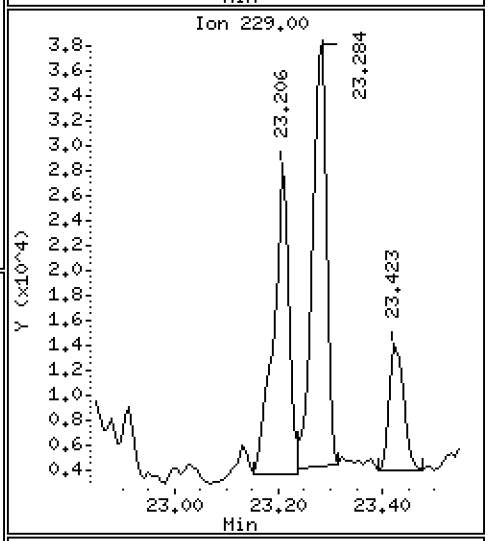


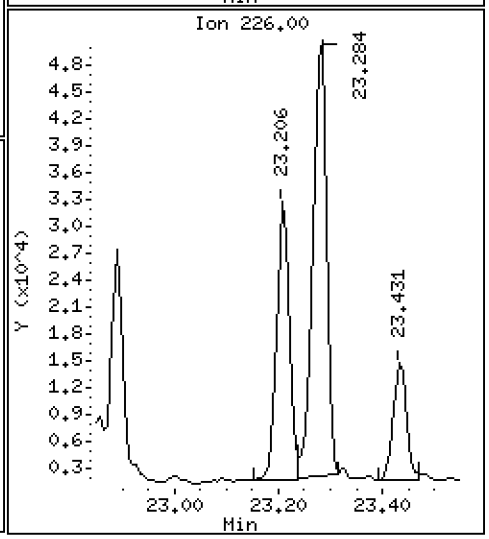












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Date : 22-MAR-2023 00:13

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-03

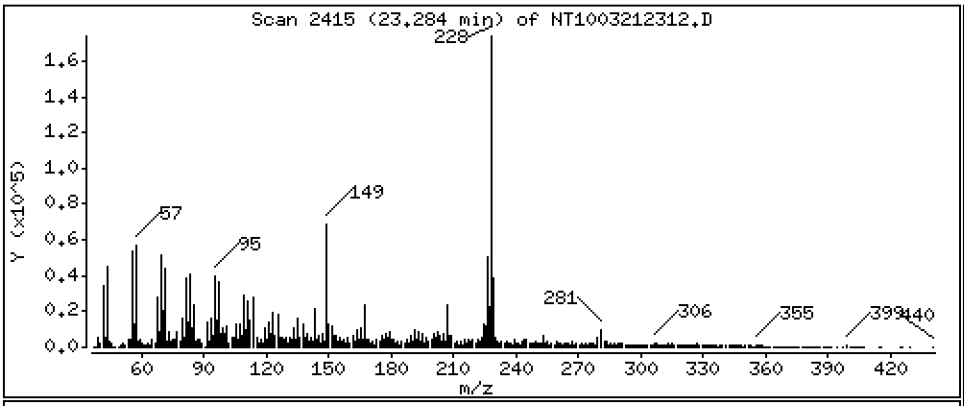
Operator: VTS

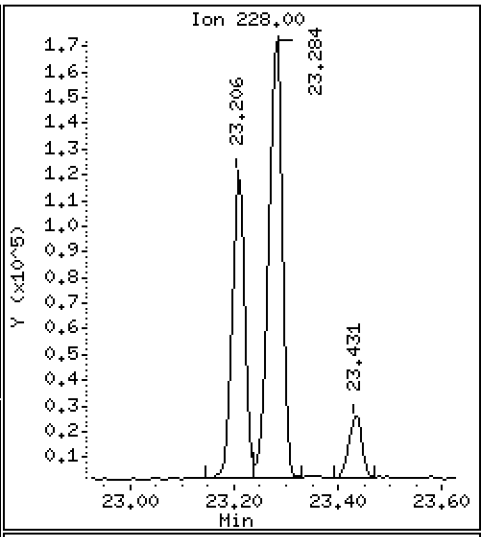
Column phase: ZB-5msi

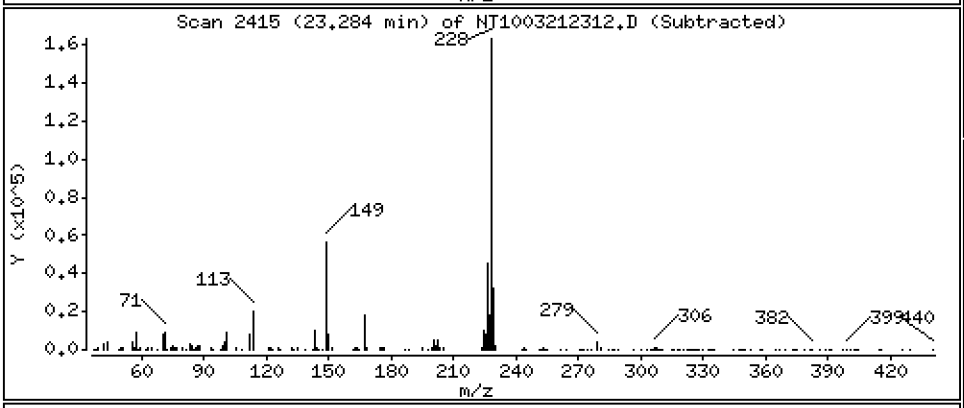
Column diameter: 0.25

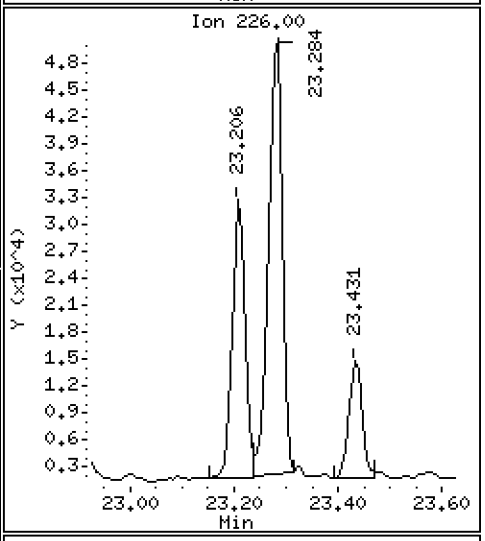
71 Chrysene

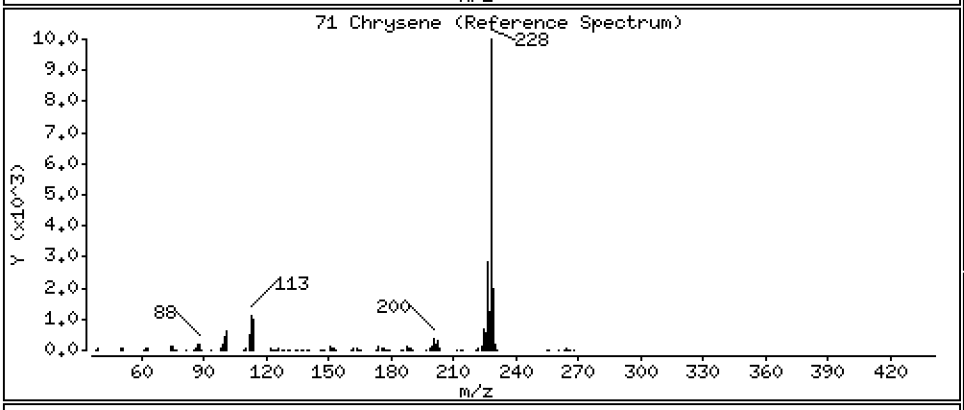
Concentration: 1.241 ug/mL

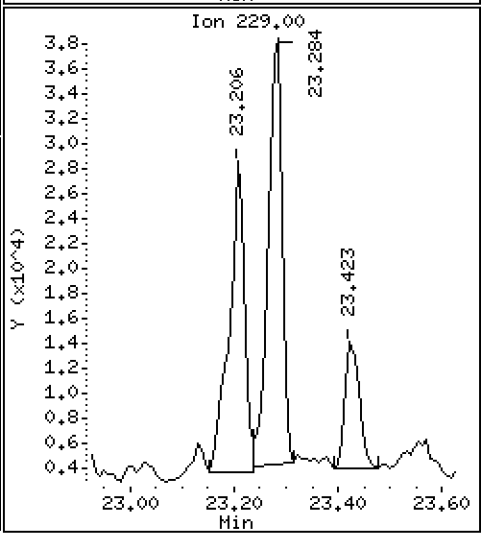


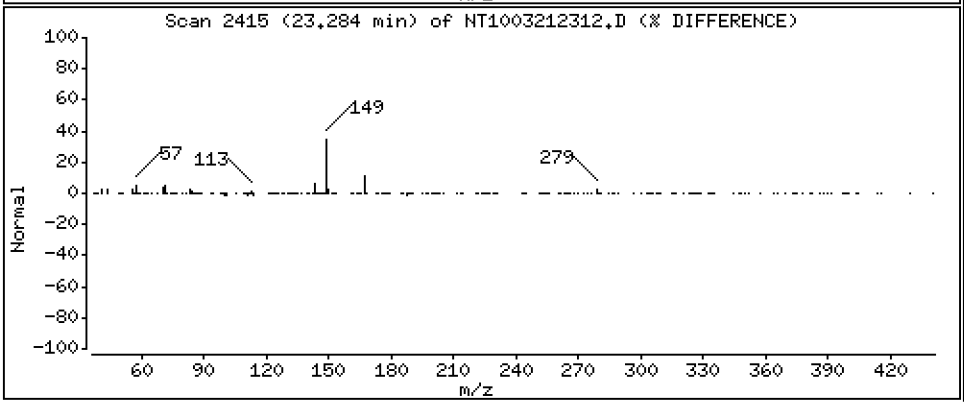












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Date : 22-MAR-2023 00:13

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-03

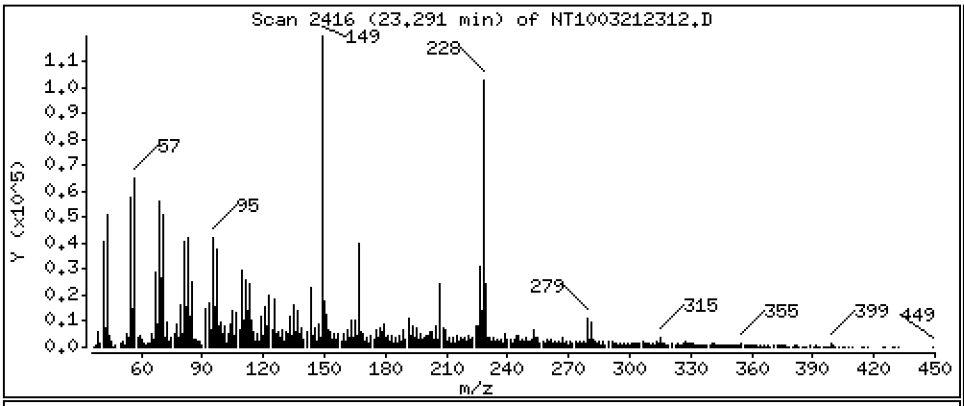
Operator: VTS

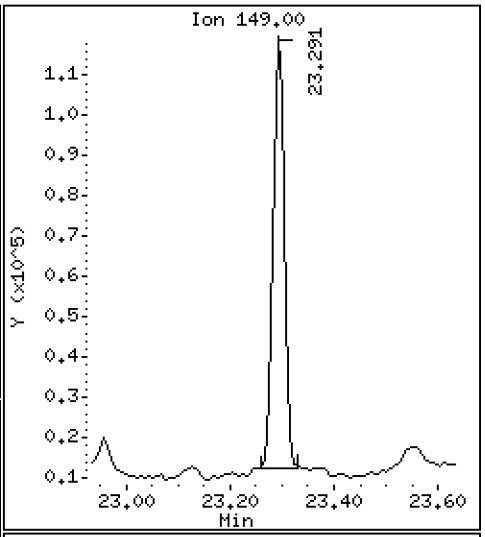
Column phase: ZB-5msi

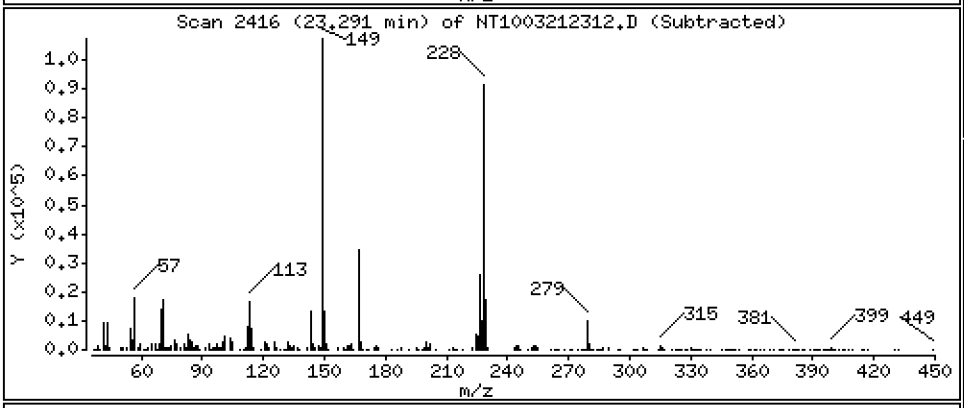
Column diameter: 0.25

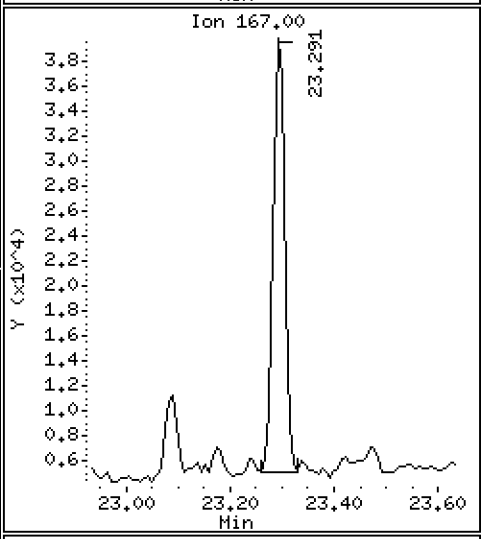
72 bis(2-Ethylhexyl)phthalate

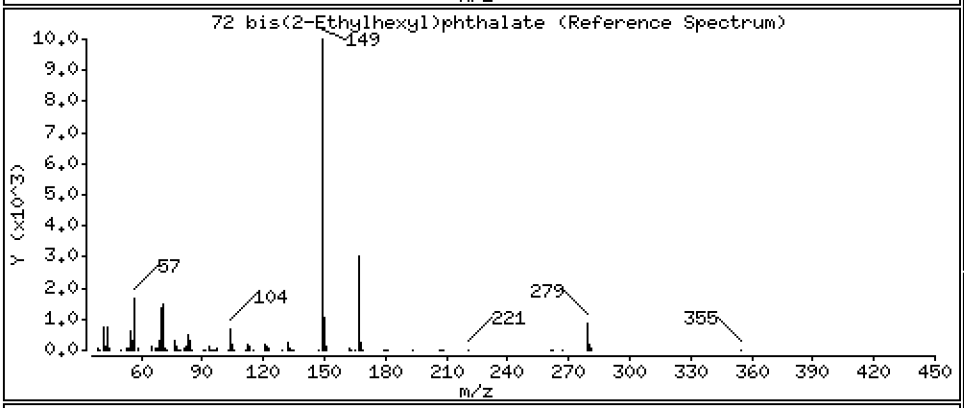
Concentration: 0.8517 ug/mL

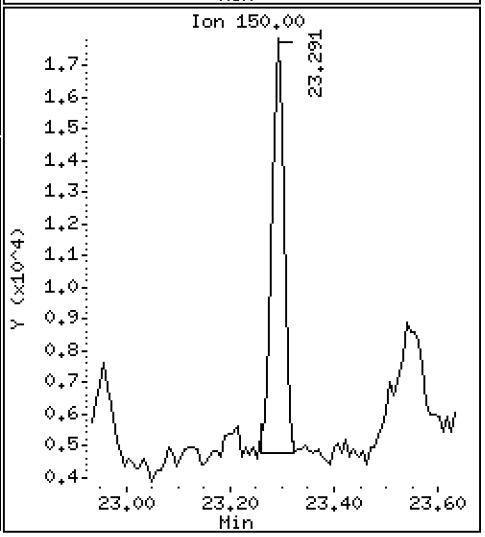


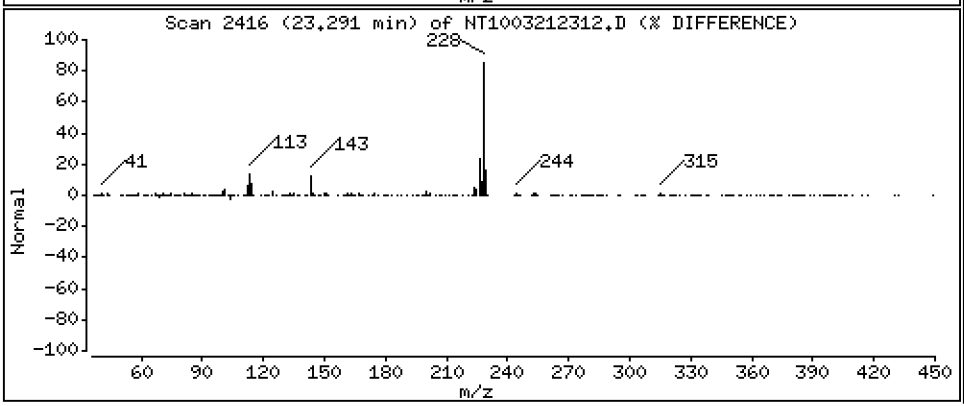












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Date : 22-MAR-2023 00:13

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-03

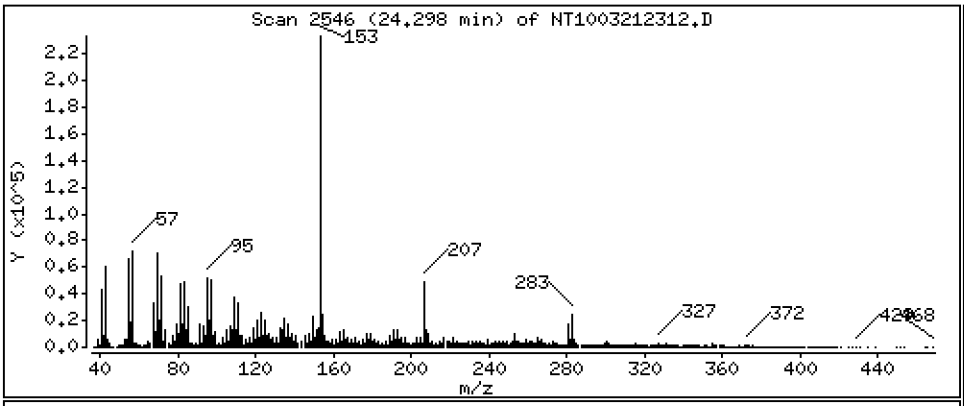
Operator: VTS

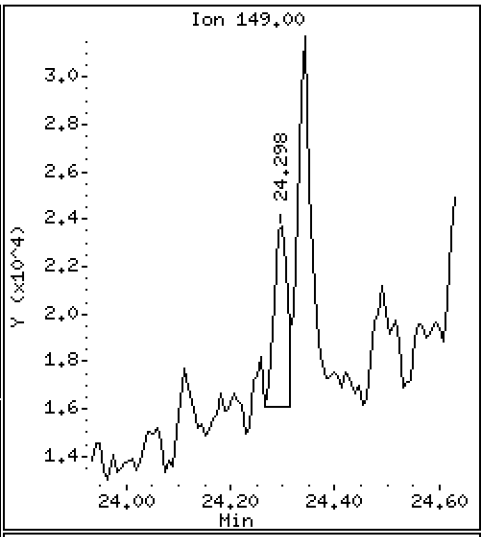
Column phase: ZB-5msi

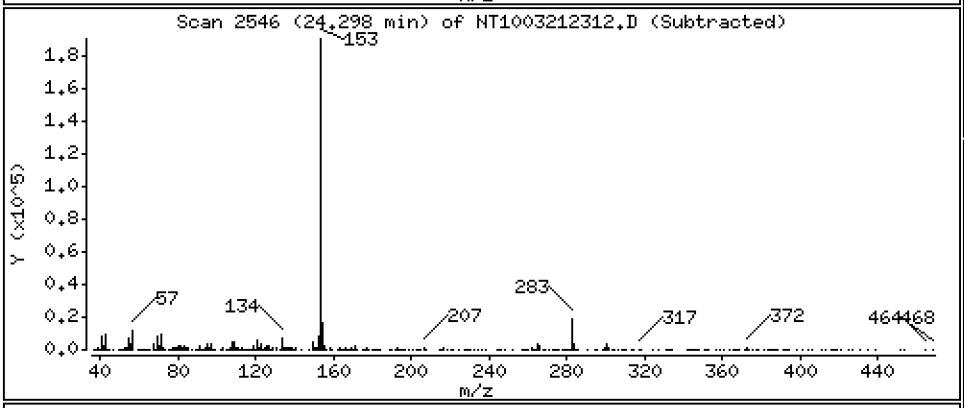
Column diameter: 0.25

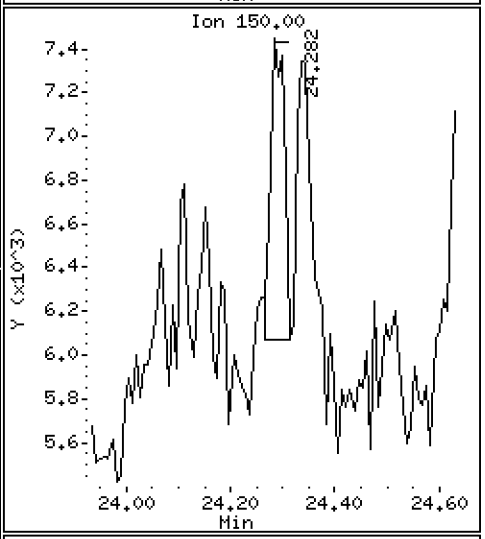
73 Di-n-octylphthalate

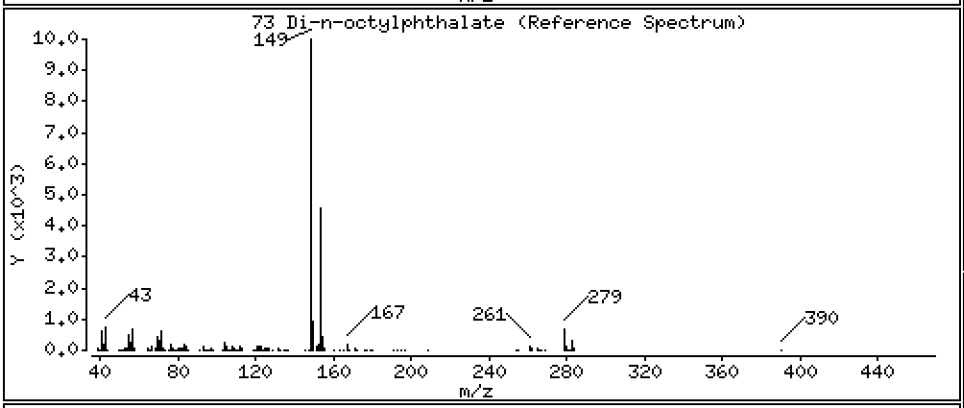
Concentration: 0.04347 ug/mL

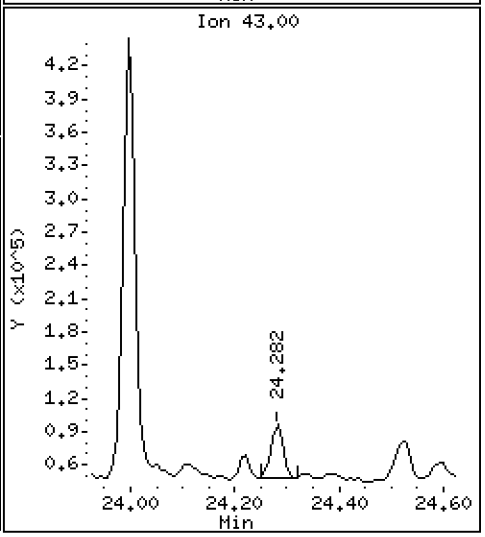


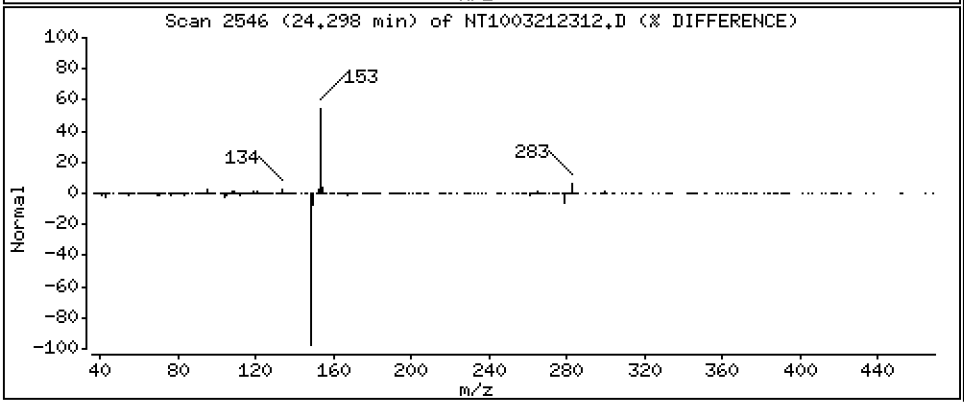












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212312.D

Date : 22-MAR-2023 00:13

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-03

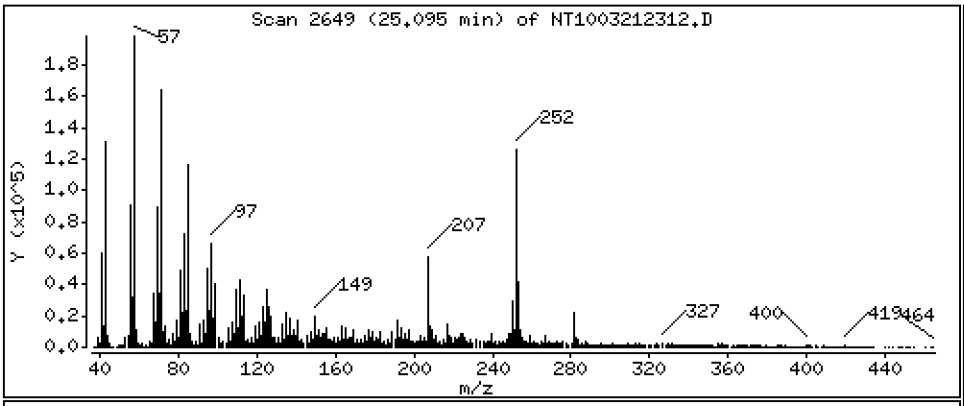
Operator: VTS

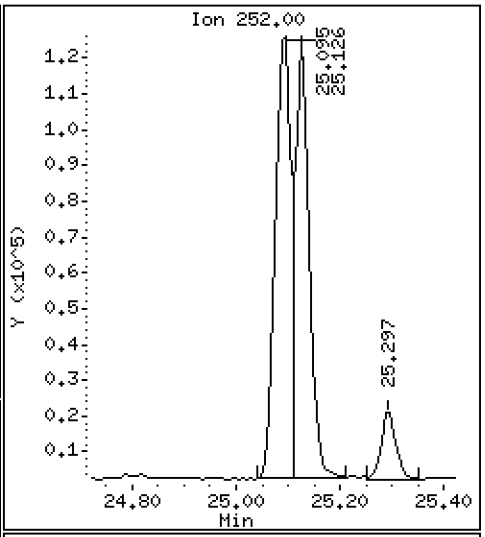
Column phase: ZB-5msi

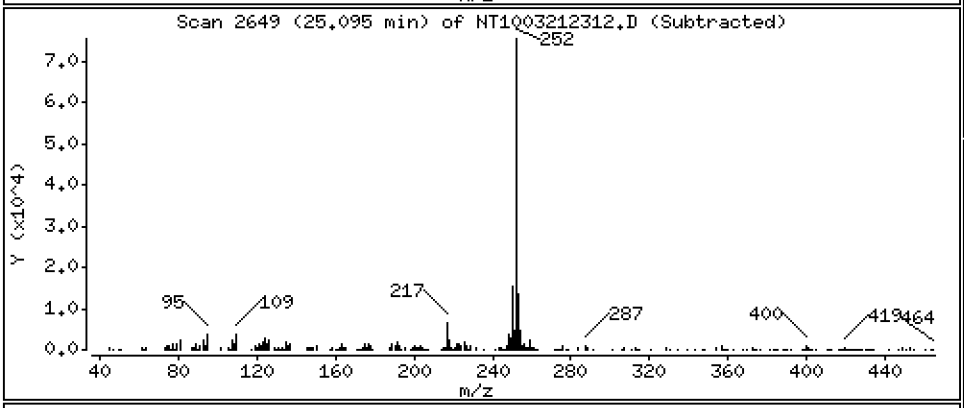
Column diameter: 0.25

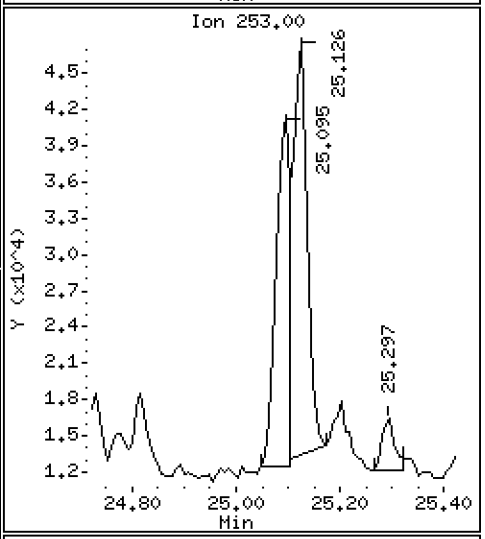
74 Benzo(b)fluoranthene

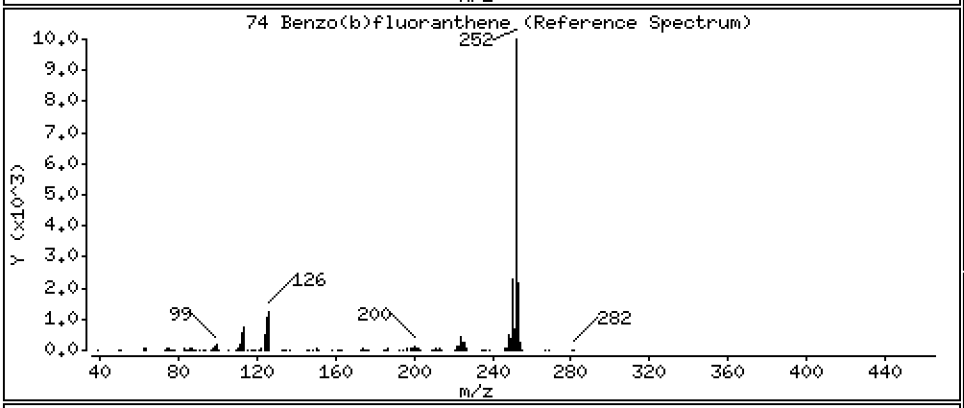
Concentration: 1.021 ug/mL

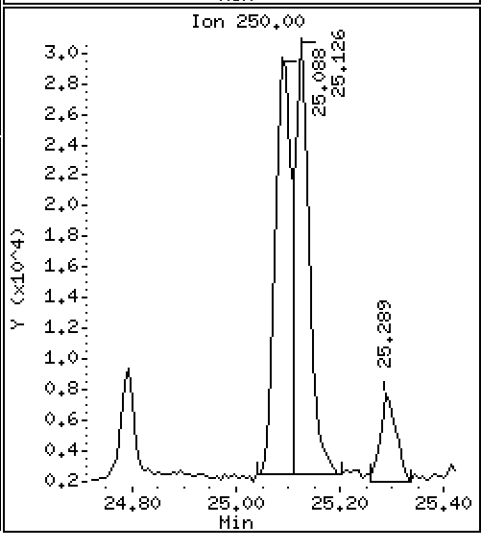


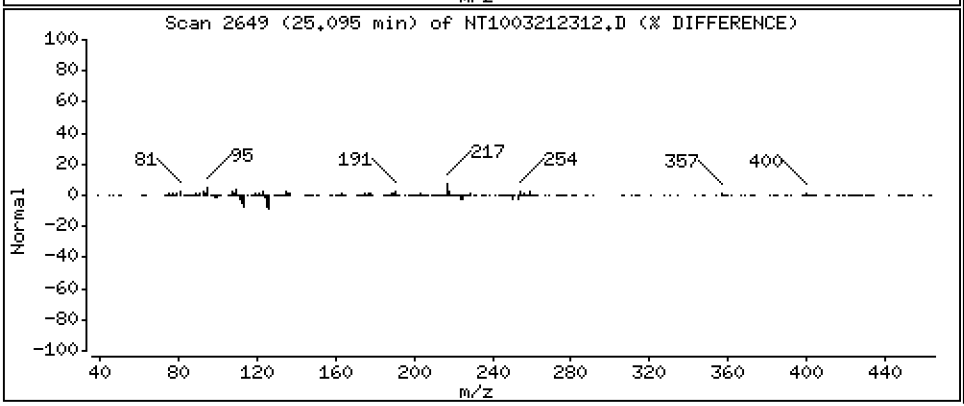












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Date : 22-MAR-2023 00:13

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-03

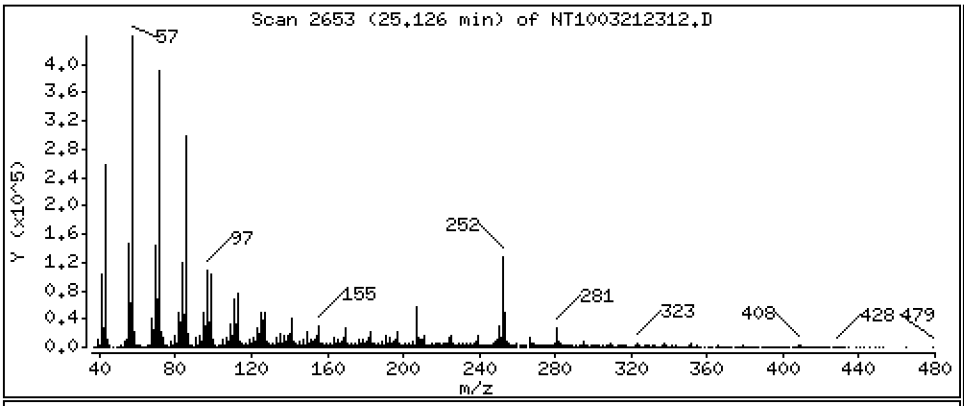
Operator: VTS

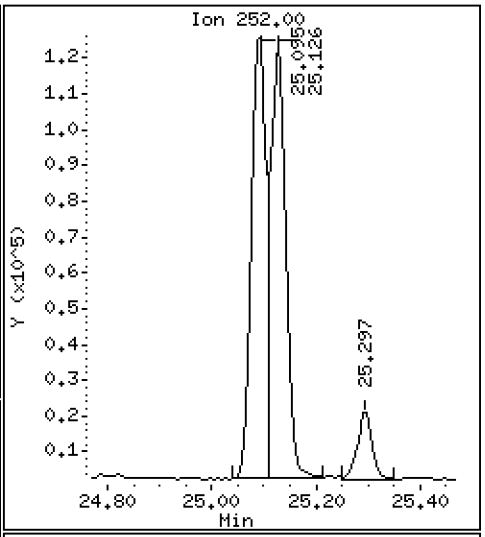
Column phase: ZB-5msi

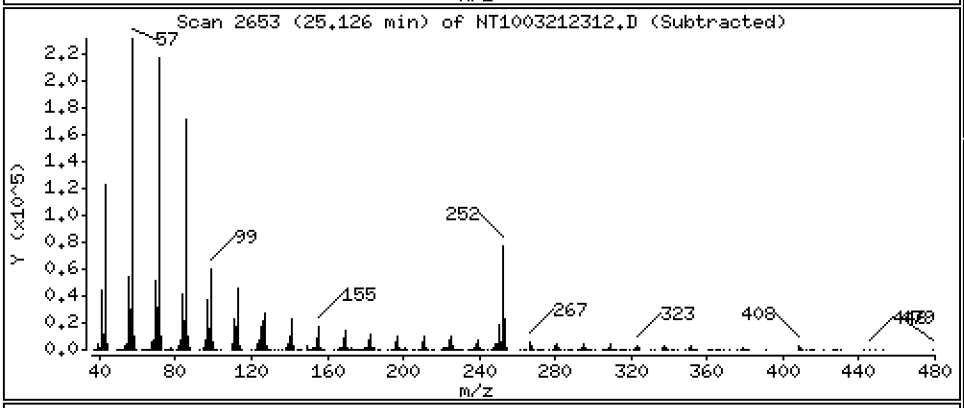
Column diameter: 0.25

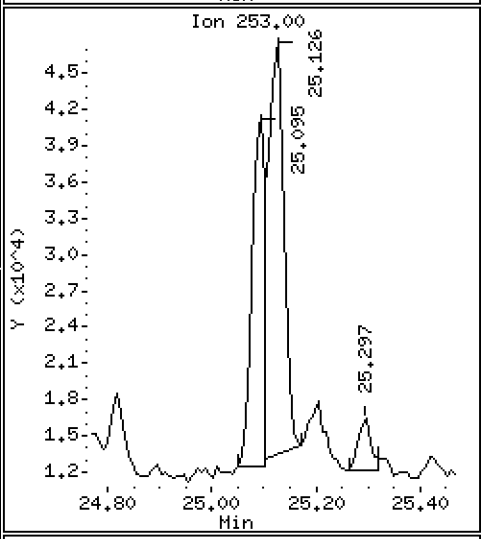
75 Benzo(k)fluoranthene

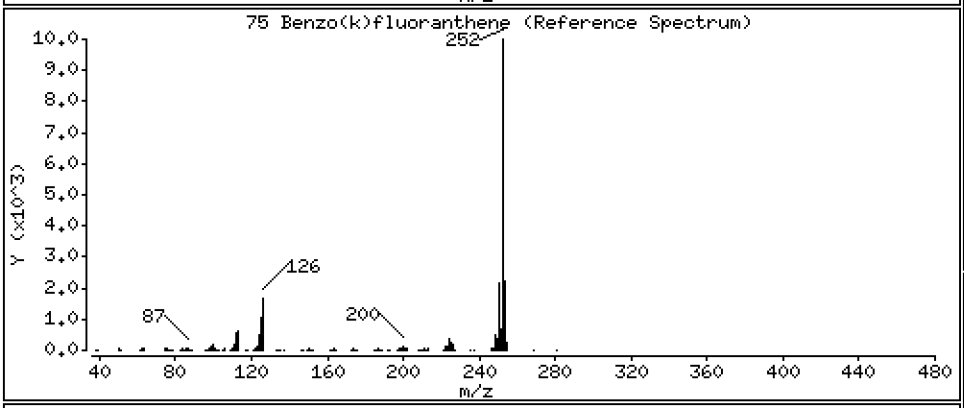
Concentration: 0.8958 ug/mL

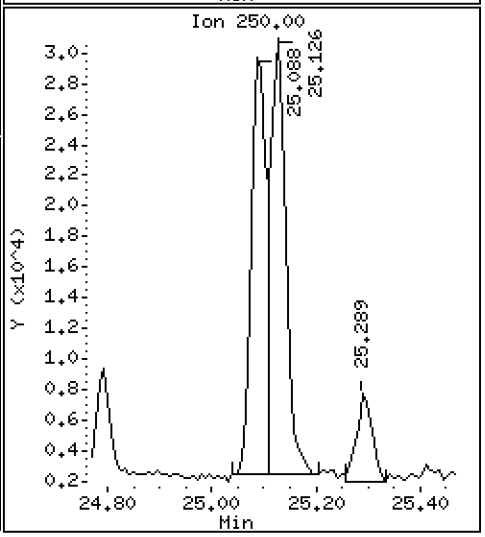


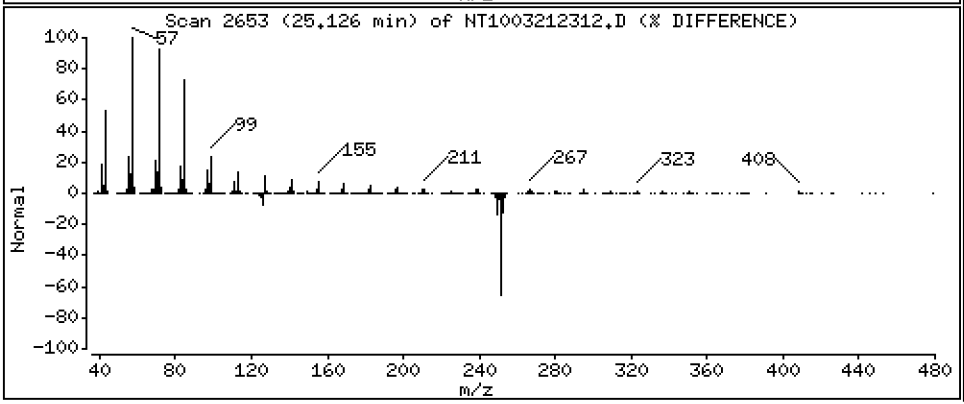












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Date : 22-MAR-2023 00:13

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-03

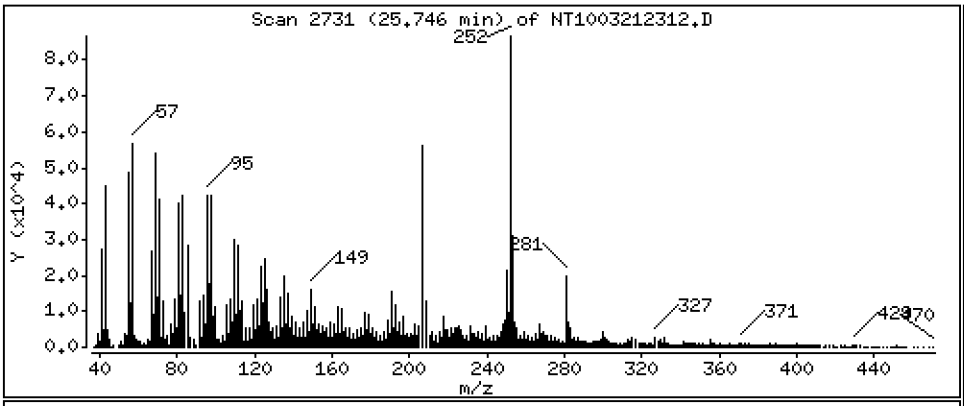
Operator: VTS

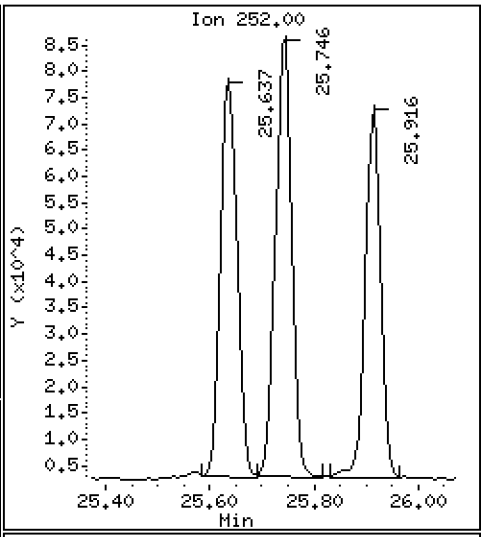
Column phase: ZB-5msi

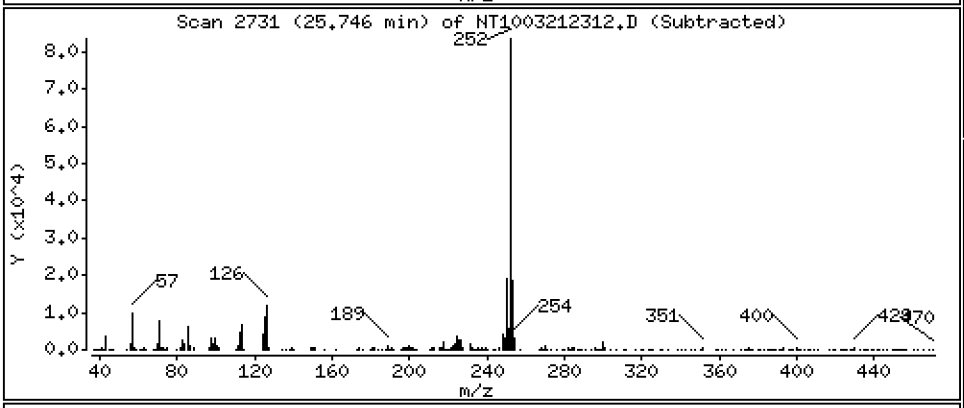
Column diameter: 0.25

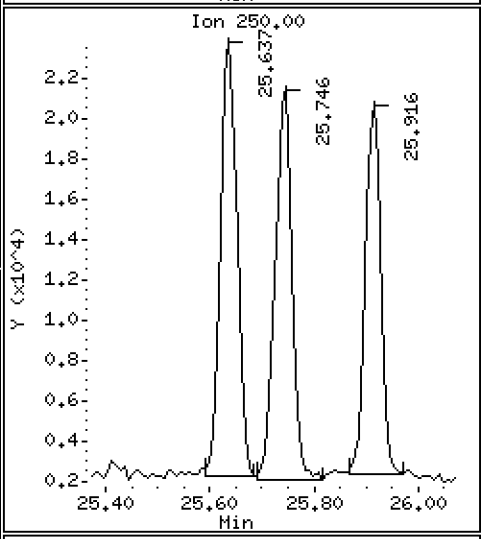
76 Benzo(a)pyrene

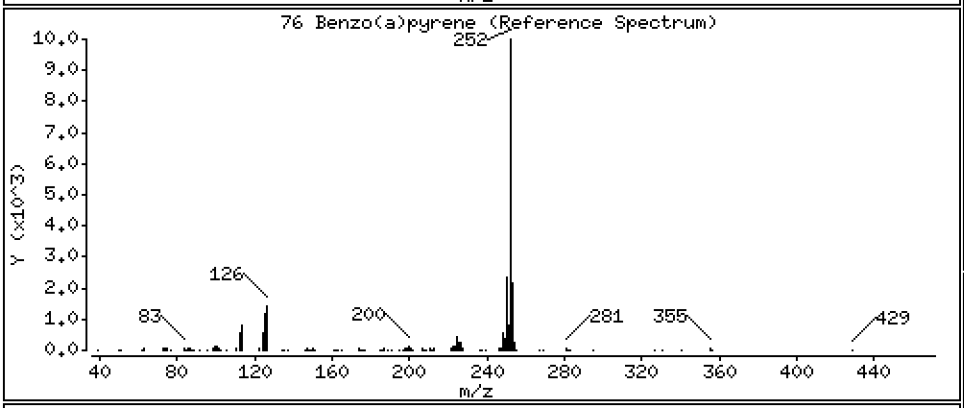
Concentration: 0.7567 ug/mL

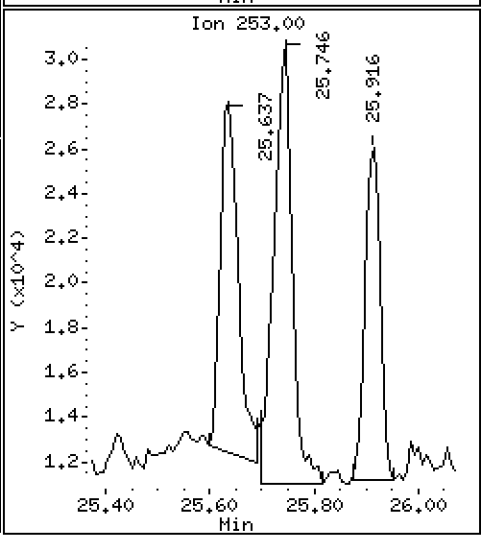


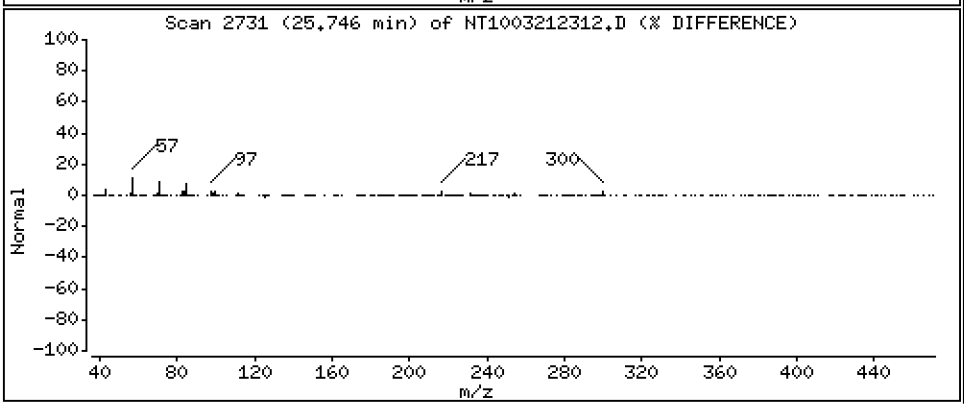












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Date : 22-MAR-2023 00:13

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-03

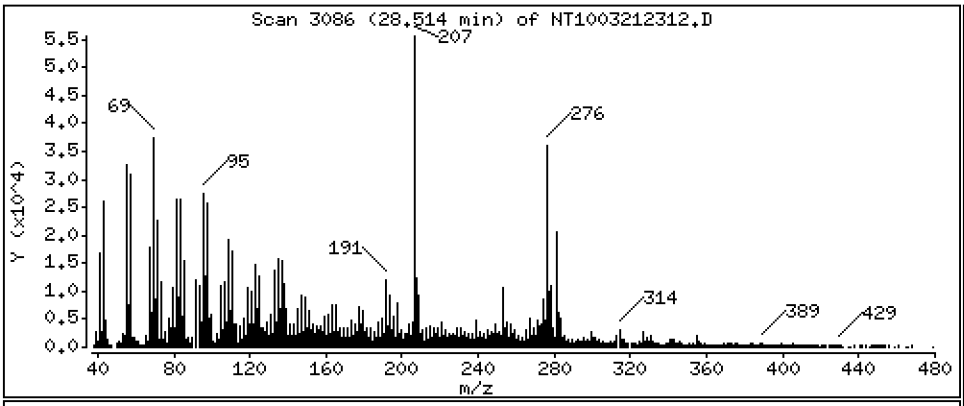
Operator: VTS

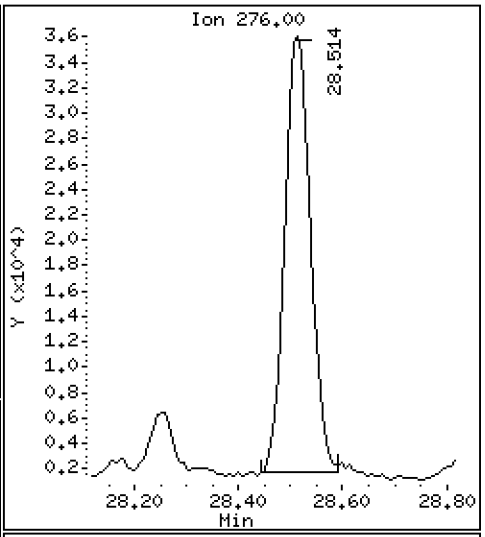
Column phase: ZB-5msi

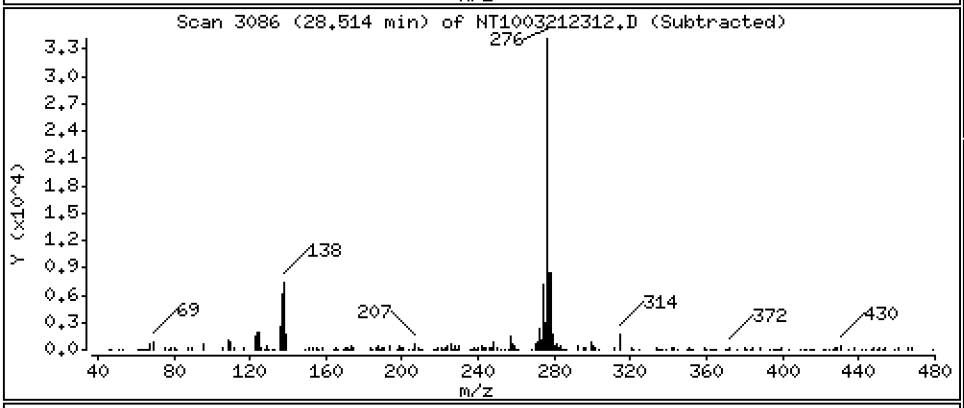
Column diameter: 0.25

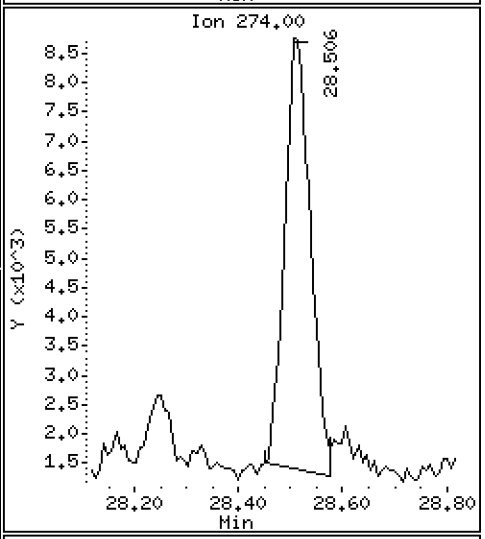
78 Indeno(1,2,3-cd)pyrene

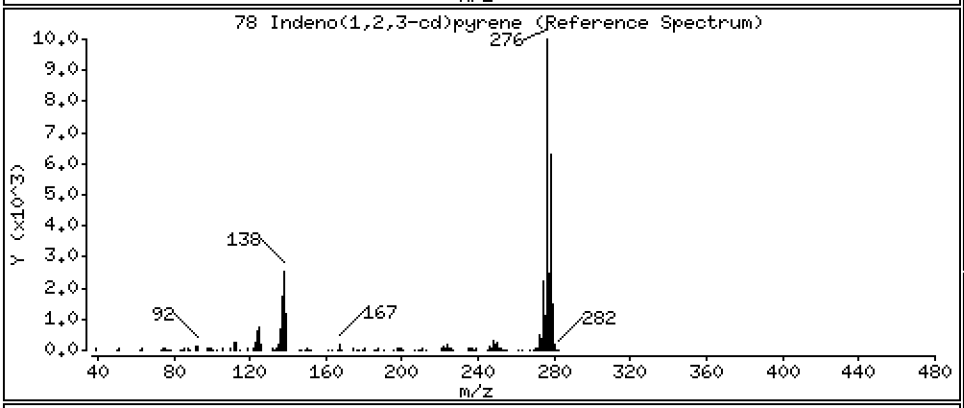
Concentration: 0.3955 ug/mL

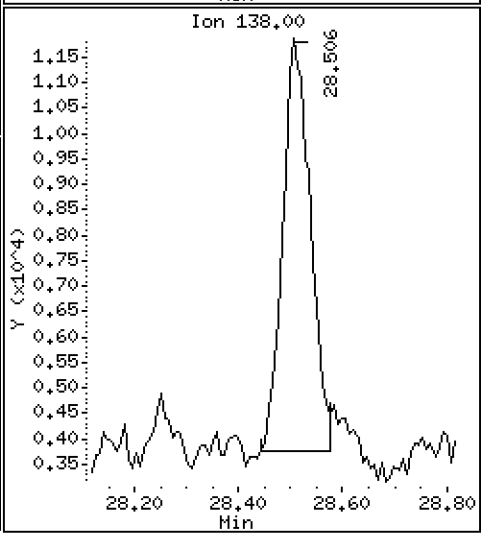


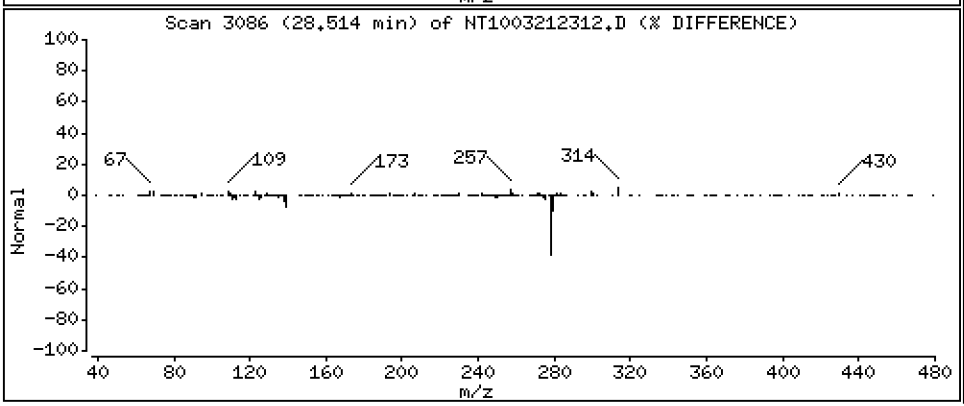












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Date : 22-MAR-2023 00:13

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-03

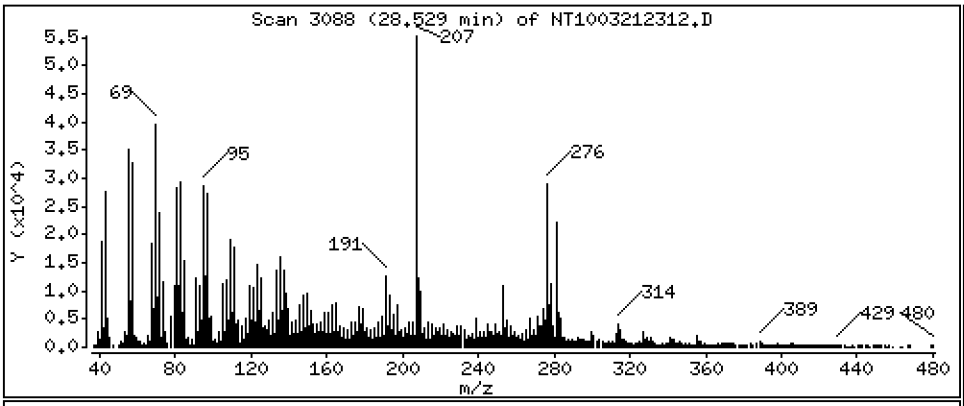
Operator: VTS

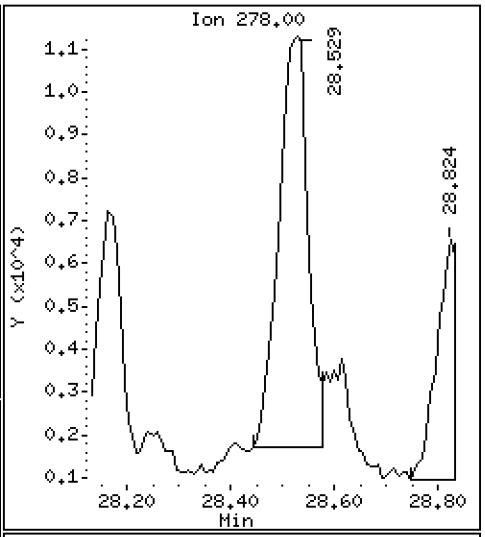
Column phase: ZB-5msi

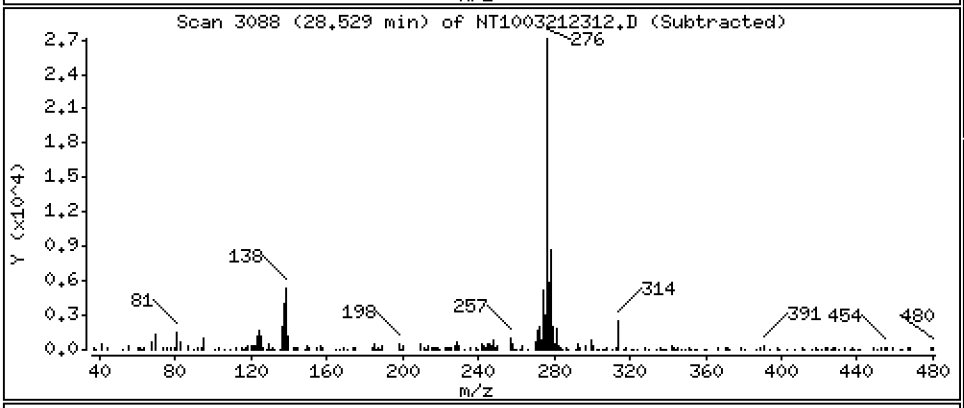
Column diameter: 0.25

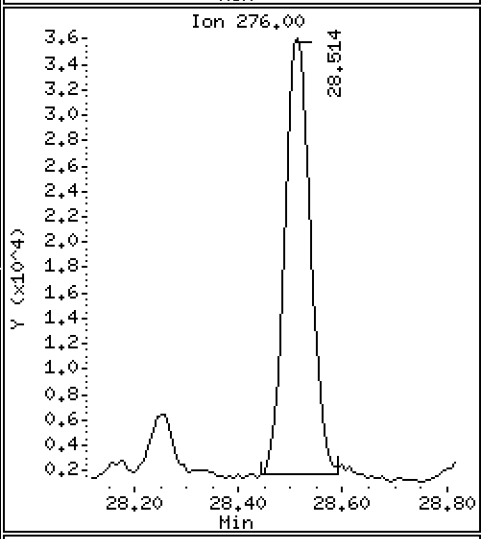
79 Dibenzo(a,h)anthracene

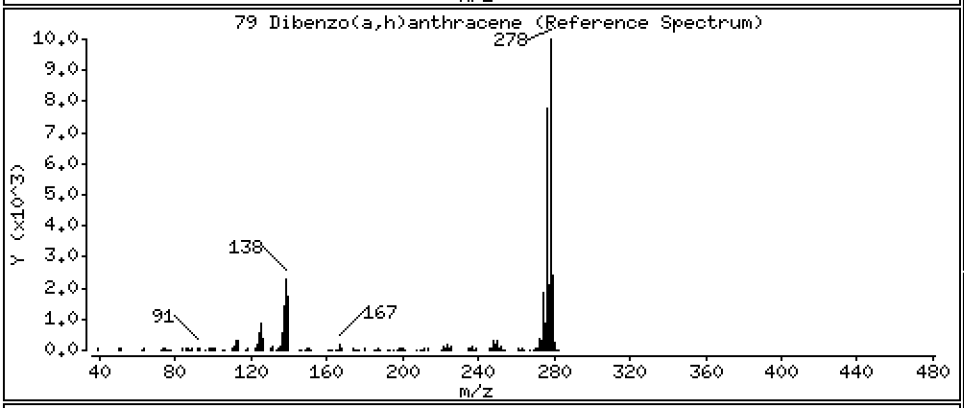
Concentration: 0.1526 ug/mL

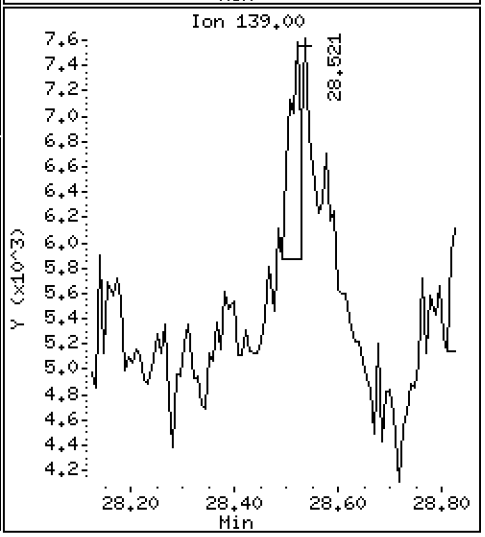


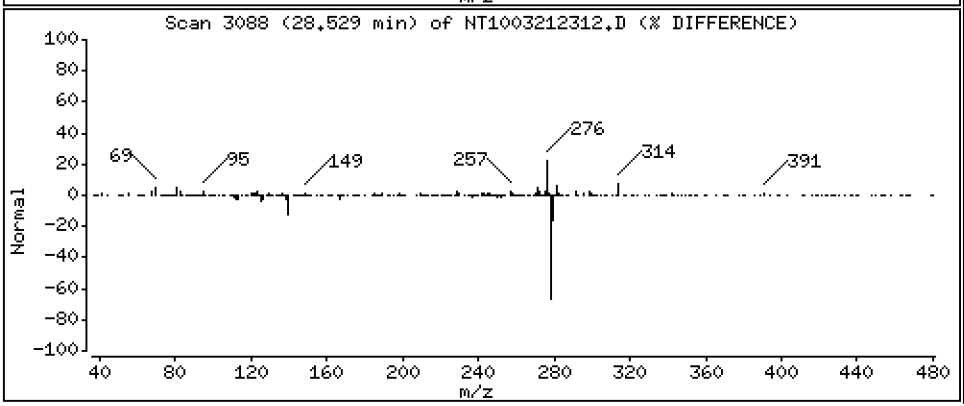












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Date : 22-MAR-2023 00:13

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-03

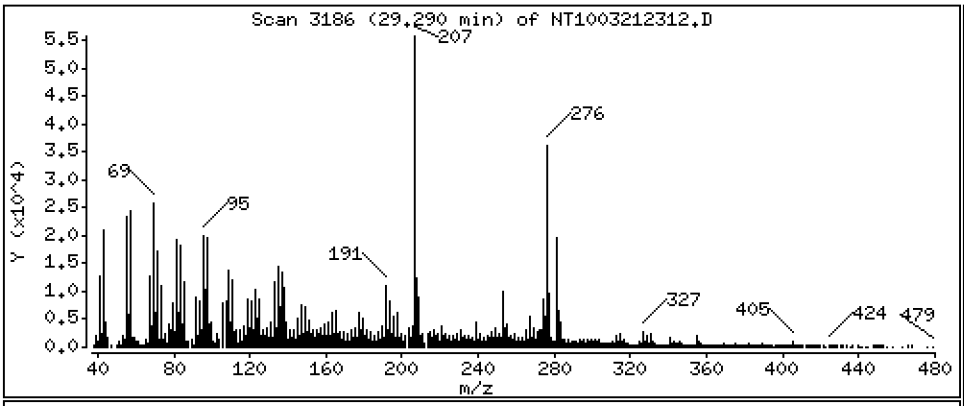
Operator: VTS

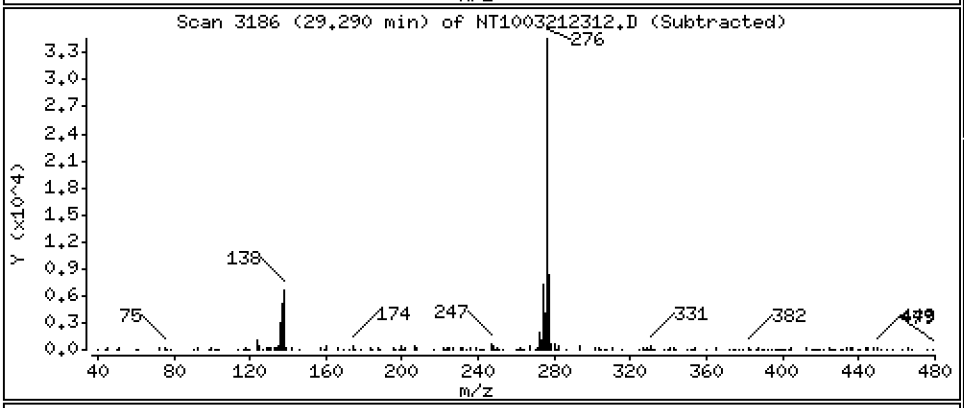
Column phase: ZB-5msi

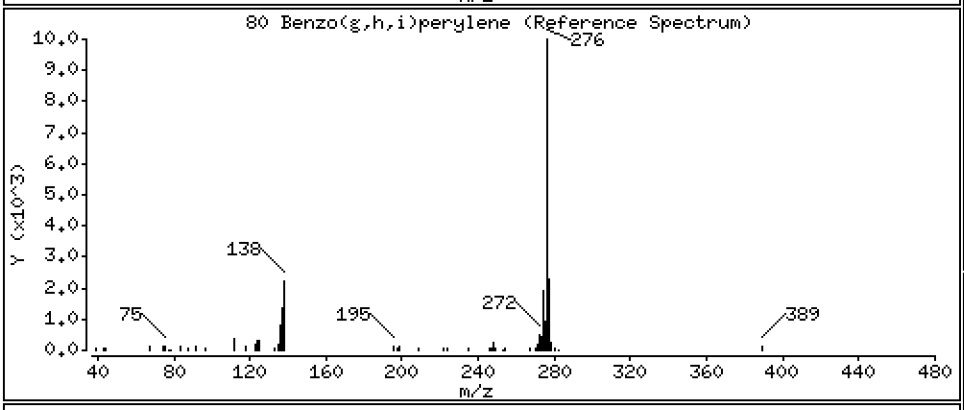
Column diameter: 0.25

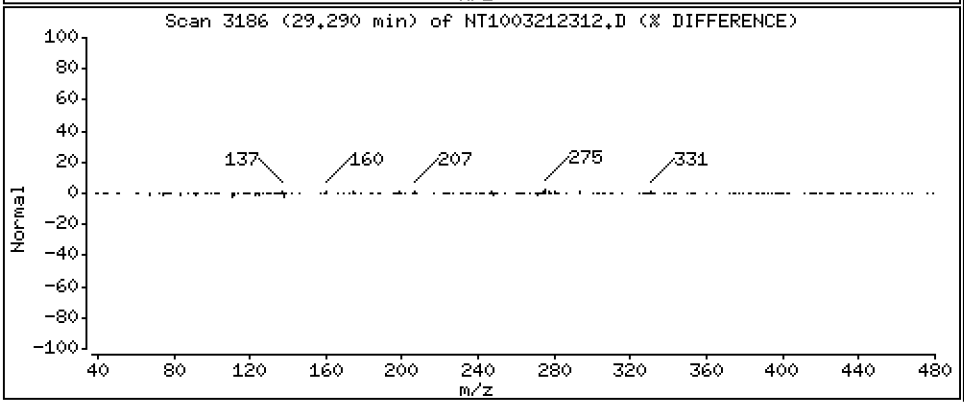
80 Benzo(g,h,i)perylene

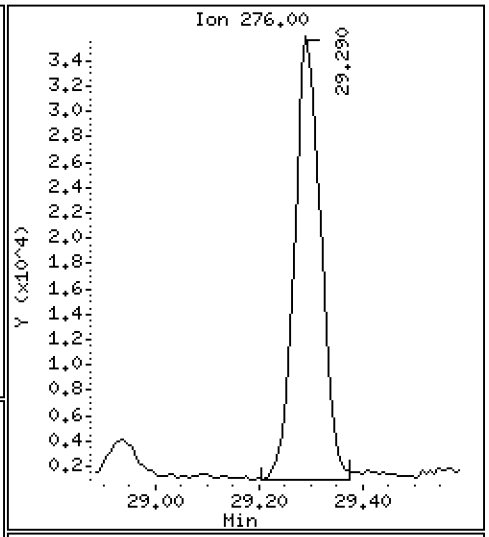
Concentration: 0.4717 ug/mL

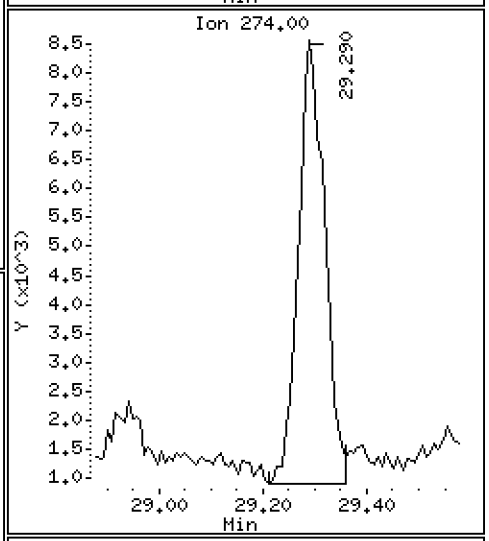


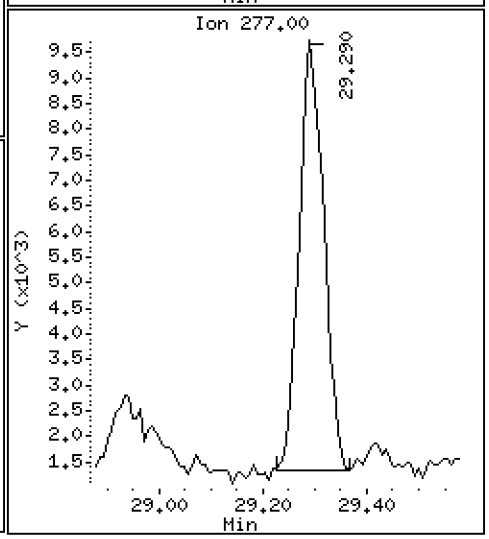












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Date : 22-MAR-2023 00:13

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-03

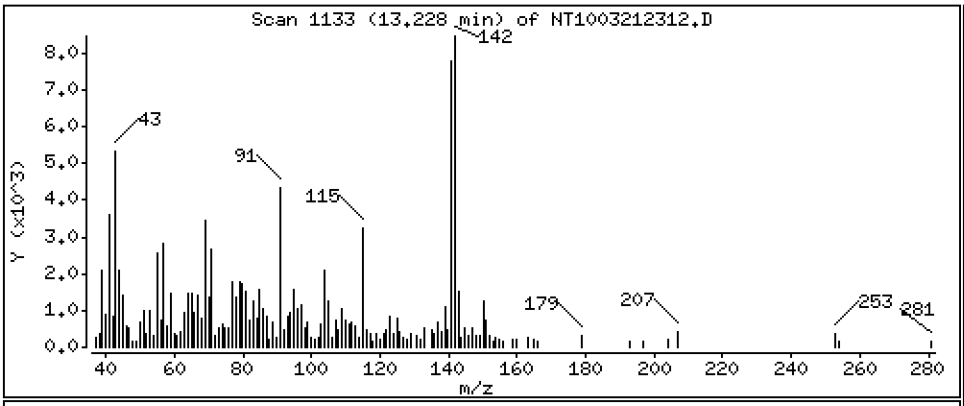
Operator: VTS

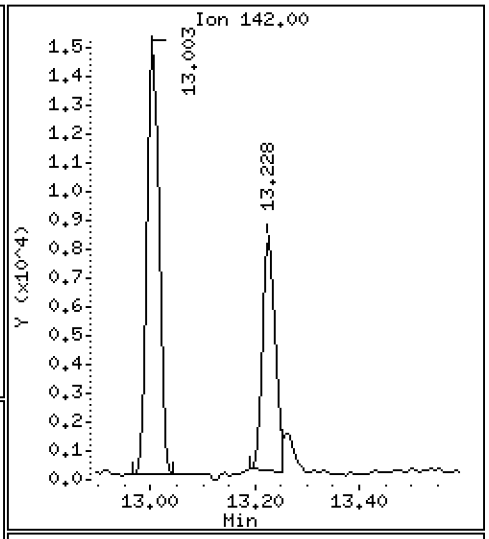
Column phase: ZB-5msi

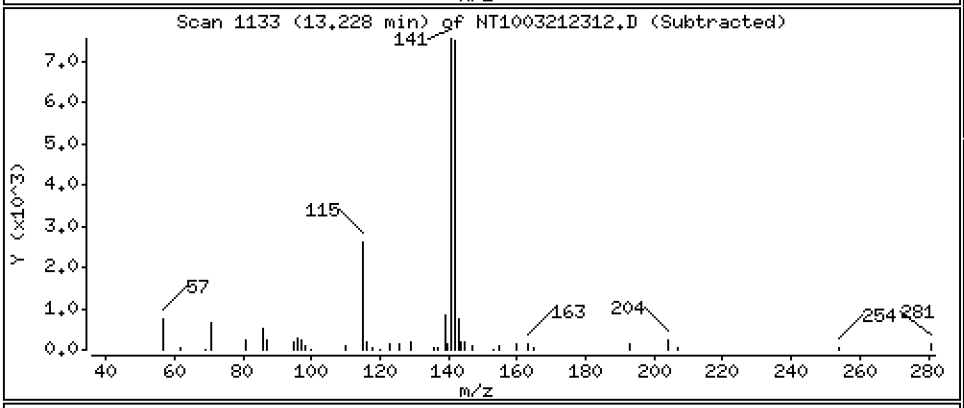
Column diameter: 0.25

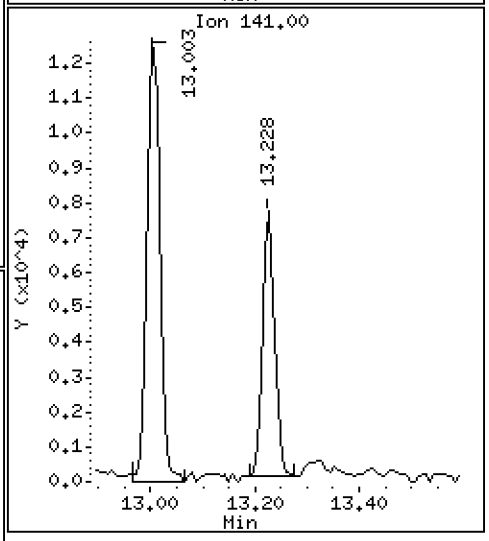
105 1-methylnaphthalene

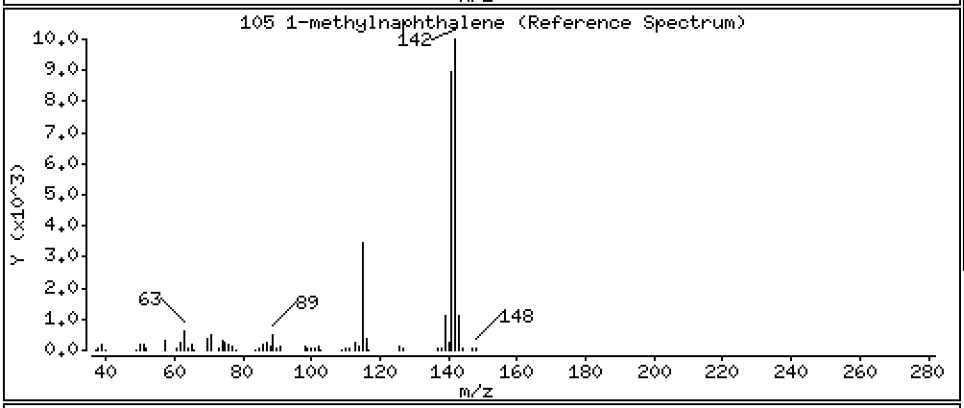
Concentration: 0.1039 ug/mL

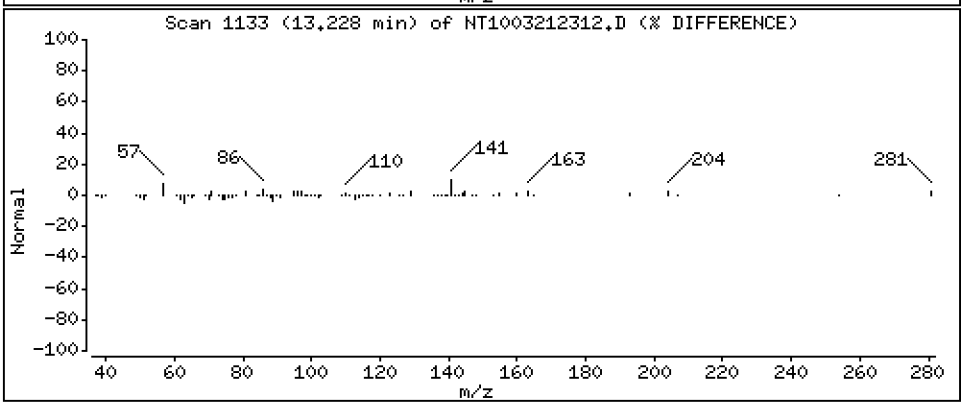












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212312.D

Date : 22-MAR-2023 00:13

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-03

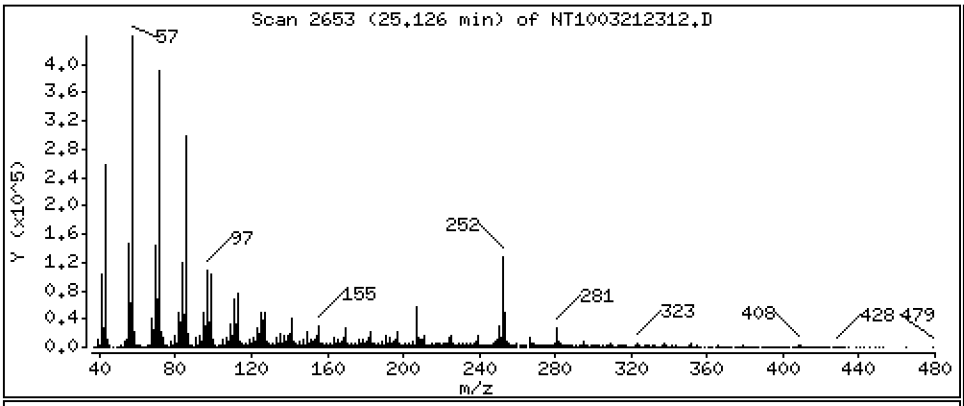
Operator: VTS

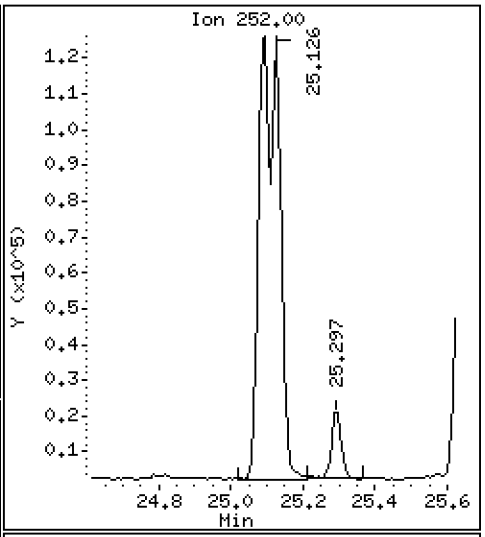
Column phase: ZB-5msi

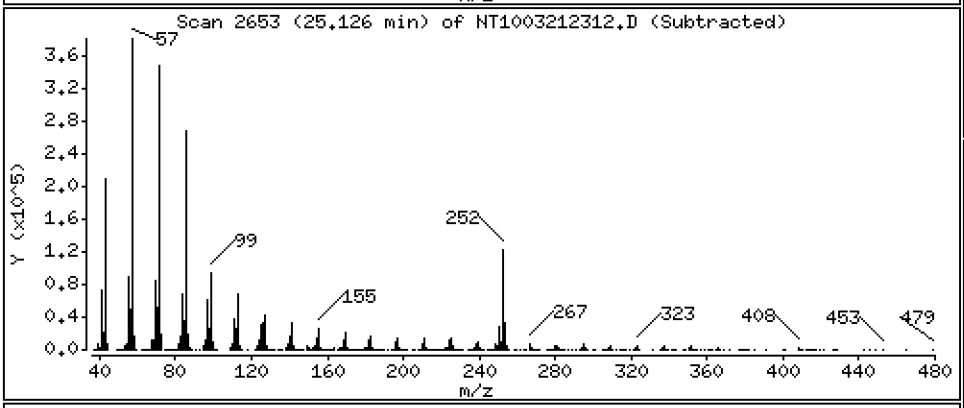
Column diameter: 0.25

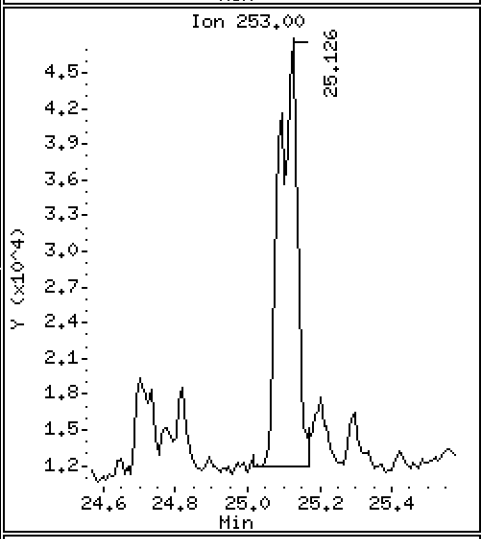
187 Total Benzofluoranthenes

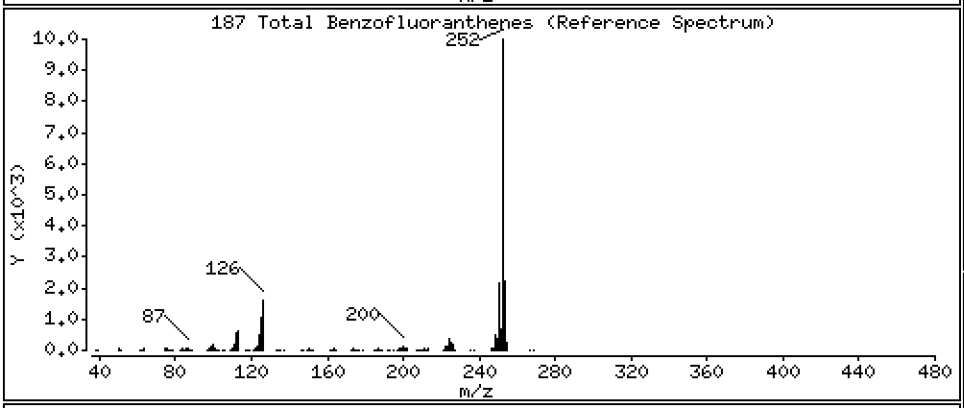
Concentration: 1.865 ug/mL

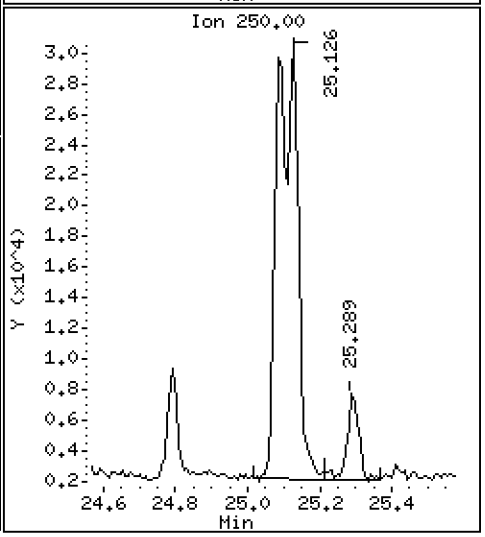


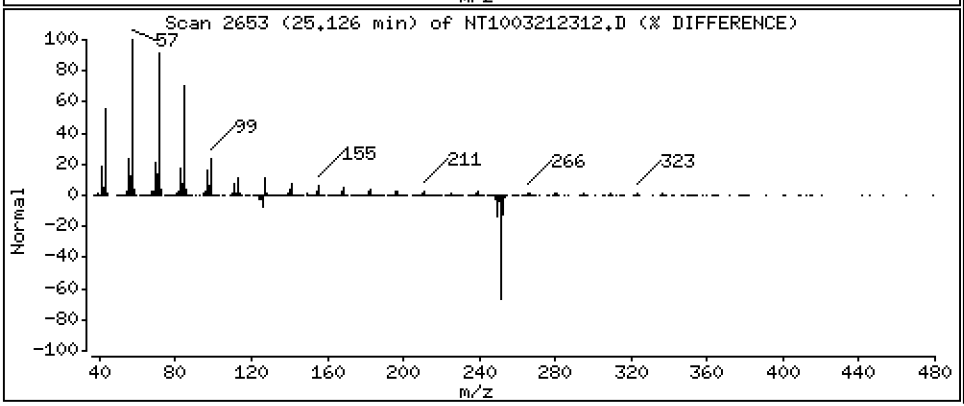












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230321.b\NT1003212312.D
Lab Smp Id: 23C0071-03
Inj Date : 22-MAR-2023 00:13
Operator : VTS Inst ID: nt10.i
Smp Info : 23C0071-03
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230321.b\ABN.m
Meth Date : 29-Mar-2023 06:54 van Quant Type: ISTD
Cal Date : 16-MAR-2023 00:22 Cal File: NT10031508.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)	
$	1 2-Fluorophenol	112	6.890	6.889	(0.729)	356849	5.65069	5.651	
$	2 Phenol-d5	99	8.466	8.473	(0.895)	481176	5.80813	5.808	
	3 Phenol	94	8.489	8.497	(0.898)	169483	1.96869	1.969	
$	5 2-Chlorophenol-d4	132	8.744	8.744	(0.925)	445915	6.30322	6.303	
	4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.						
	6 2-Chlorophenol	128	Compound Not Detected.						
	7 1,3-Dichlorobenzene	146	Compound Not Detected.						
*	8 1,4-Dichlorobenzene-d4	152	9.100	9.108	(1.000)	208826	4.00000		(H)
	9 1,4-Dichlorobenzene	146	Compound Not Detected.						
$	10 1,2-Dichlorobenzene-d4	152	9.457	9.465	(1.000)	196489	3.86751	3.868	
	12 1,2-Dichlorobenzene	146	Compound Not Detected.						
	11 Benzyl alcohol	108	9.372	9.379	(0.991)	45606	1.12865	1.129	
	14 2,2'-oxybis(1-Chloropropane)	121	Compound Not Detected.						
	13 2-Methylphenol	108	9.597	9.604	(1.055)	2471	0.03937	0.03937	(M)
	17 Hexachloroethane	117	Compound Not Detected.						
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.						
	15 4-Methylphenol	108	9.868	9.876	(1.044)	10541	0.15941	0.1594	
$	18 Nitrobenzene-d5	82	10.187	10.202	(0.880)	306953	4.07383	4.074	
	19 Nitrobenzene	77	Compound Not Detected.						
	20 Isophorone	82	Compound Not Detected.						
	21 2-Nitrophenol	139	Compound Not Detected.						
	22 2,4-Dimethylphenol	107	10.901	10.918	(0.942)	3077	0.04530	0.04530	
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.						
	24 Benzoic acid	105	11.020	11.113	(0.952)	46302	1.22474	1.225	
	25 2,4-Dichlorophenol	162	Compound Not Detected.						
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.						
*	27 Naphthalene-d8	136	11.572	11.587	(1.000)	746487	4.00000		
	28 Naphthalene	128	11.618	11.626	(1.004)	59058	0.29864	0.2986	
	29 4-Chloroaniline	127	Compound Not Detected.						
	30 Hexachlorobutadiene	225	Compound Not Detected.						
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.						
	32 2-Methylnaphthalene	142	13.003	13.018	(1.124)	22534	0.15790	0.1579	
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.						

			QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
	34	2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35	2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36	2-Fluorobiphenyl	172	13.785	13.800	(0.909)	713875	4.29104	4.291
	37	2-Chloronaphthalene	162	Compound Not Detected.					
	38	2-Nitroaniline	65	Compound Not Detected.					
	39	Dimethylphthalate	163	14.682	14.698	(0.968)	10387	0.07603	0.07603
	40	Acenaphthylene	152	14.860	14.876	(0.980)	19070	0.09085	0.09085
	41	2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42	Acenaphthene-d10	164	15.170	15.185	(1.000)	420566	4.00000	
	43	3-Nitroaniline	138	Compound Not Detected.					
	44	Acenaphthene	153	15.232	15.247	(1.004)	11528	0.08890	0.08890
	45	2,4-Dinitrophenol	184	Compound Not Detected.					
	46	Dibenzofuran	168	15.556	15.572	(1.025)	28655	0.14985	0.1498
	47	4-Nitrophenol	109	Compound Not Detected.					
	48	2,4-Dinitrotoluene	165	Compound Not Detected.					
	50	Diethylphthalate	149	16.129	16.144	(1.063)	23087	0.17223	0.1722
	49	Fluorene	166	16.268	16.283	(1.072)	50137	0.33326	0.3333
	51	4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52	4-Nitroaniline	138	Compound Not Detected.					
	53	4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54	N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55	2,4,6-Tribromophenol	330	16.800	16.815	(1.107)	165934	8.48001	8.480
	56	4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57	Hexachlorobenzene	284	Compound Not Detected.					
	58	Pentachlorophenol	266	Compound Not Detected.					
*	59	Phenanthrene-d10	188	18.191	18.206	(1.000)	787020	4.00000	
	60	Phenanthrene	178	18.237	18.252	(1.003)	219503	1.02283	1.023
	61	Anthracene	178	18.330	18.338	(1.008)	266286	1.29353	1.294
	62	Carbazole	167	18.663	18.670	(1.026)	35136	0.19047	0.1905
	63	Di-n-butylphthalate	149	19.467	19.475	(1.070)	14011	0.05648	0.05648
	64	Fluoranthene	202	20.636	20.620	(0.888)	371669	1.31839	1.318
	65	Pyrene	202	21.053	21.046	(0.906)	359143	1.24189	1.242
$	66	Terphenyl-d14	244	21.340	21.332	(0.918)	928261	4.27422	4.274
	67	Butylbenzylphthalate	149	22.261	22.261	(0.958)	18014	0.17739	0.1774
	68	Benzo(a)anthracene	228	23.206	23.198	(0.999)	198241	0.80052	0.8005
*	69	Chrysene-d12	240	23.237	23.229	(1.000)	701591	4.00000	
	70	3,3'-Dichlorobenzidine	252	Compound Not Detected.					
	71	Chrysene	228	23.283	23.275	(1.002)	300319	1.24130	1.241
	72	bis(2-Ethylhexyl)phthalate	149	23.291	23.283	(0.959)	149683	0.85175	0.8517
*	134	Di-n-octylphthalate-d4	153	24.282	24.266	(1.000)	1201053	4.00000	
	73	Di-n-octylphthalate	149	24.297	24.282	(1.001)	13662	0.04347	0.04347
	74	Benzo(b)fluoranthene	252	25.095	25.071	(0.970)	272343	1.02076	1.021
	75	Benzo(k)fluoranthene	252	25.126	25.118	(0.972)	242678	0.89576	0.8958
	76	Benzo(a)pyrene	252	25.745	25.722	(0.996)	180502	0.75670	0.7567
*	77	Perylene-d12	264	25.861	25.830	(1.000)	823087	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	28.513	28.466	(1.103)	120016	0.39547	0.3955
	79	Dibenzo(a,h)anthracene	278	28.529	28.482	(1.103)	38452	0.15262	0.1526
	80	Benzo(g,h,i)perylene	276	29.290	29.235	(1.133)	123892	0.47173	0.4717
	90	N-Nitrosodimethylamine	74	Compound Not Detected.					
	91	Aniline	93	Compound Not Detected.					
	93	Benzidine	184	Compound Not Detected.					
	103	Pyridine	79	Compound Not Detected.					
	105	1-methylnaphthalene	142	13.227	13.243	(1.143)	13581	0.10387	0.1039
	111	Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.126	25.118	(0.972)	480552	1.86545	1.865
120 2,3,4,6-Tetrachlorophenol	232	Compound Not Detected.					

QC Flag Legend

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

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1003212312.D
Lab Smp Id: 23C0071-03
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230321.b\ABN.m
Misc Info:

Calibration Date: 21-MAR-2023
Calibration Time: 17:46
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	138414	69207	276828	208826	50.87
27 Naphthalene-d8	511348	255674	1022696	746487	45.98
42 Acenaphthene-d10	293241	146621	586482	420566	43.42
59 Phenanthrene-d10	535484	267742	1070968	787020	46.97
69 Chrysene-d12	464733	232367	929466	701591	50.97
134 Di-n-octylphthala	716354	358177	1432708	1201053	67.66
77 Perylene-d12	509704	254852	1019408	823087	61.48

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.11	8.61	9.61	9.10	-0.08
27 Naphthalene-d8	11.59	11.09	12.09	11.57	-0.13
42 Acenaphthene-d10	15.19	14.69	15.69	15.17	-0.10
59 Phenanthrene-d10	18.21	17.71	18.71	18.19	-0.08
69 Chrysene-d12	23.23	22.73	23.73	23.24	0.03
134 Di-n-octylphthala	24.27	23.77	24.77	24.28	0.06
77 Perylene-d12	25.83	25.33	26.33	25.86	0.12

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

REVIEW SUMMARY FOR FILE - NT1003212312.D

Lab ID: 23C0071-03
nt10.i, 20230321.b\ABN.m,   22-MAR-2023 00:13

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
1.055	1.015	0.0398	2-Methylphenol
0.952	0.959	-0.0068	Benzoic acid

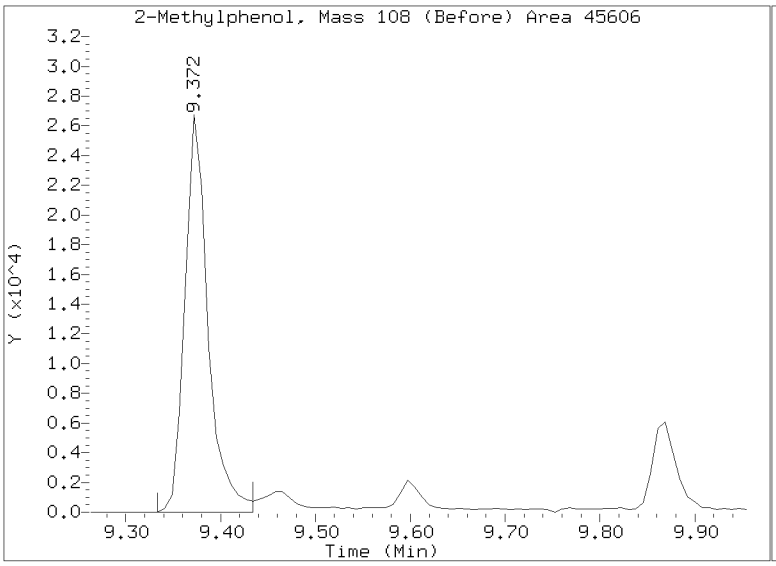
RRT check based on Ccal File: NT1003212302.D

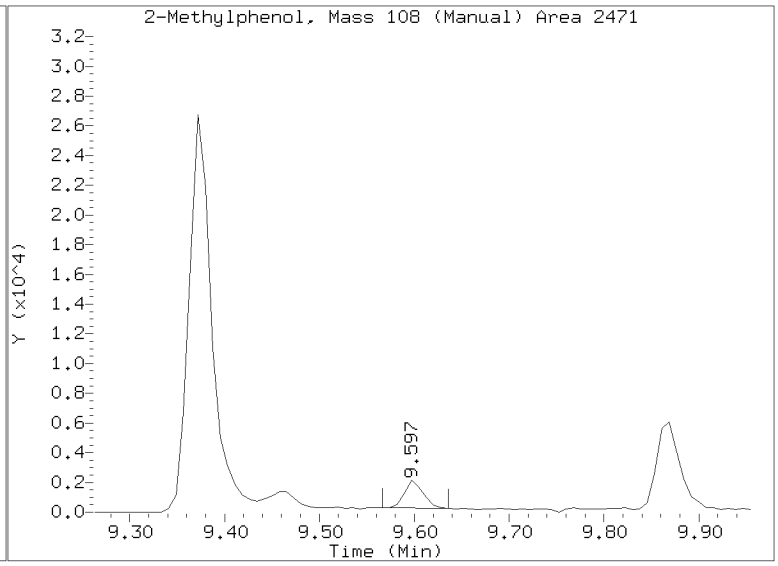
On Column LOD for nt10.i, 20230321.b\ABN.m, ICAL.sub = 0.0000

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230321.b/NT1003212312.D
Injection Date: 22-MAR-2023 00:13
Lab ID:23C0071-03 Client ID:
Report Date: 03/29/2023 08:03





Analytical Resources, LLC
Analytical Chemists and Consultants

LDW23-SS1044

Form I

ORGANIC ANALYSIS DATA SHEET

EPA 8270E

Semivolatiles (20ug/kg - 0.2ug/L SepF)

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0071-04 A	SDG:	23C0071
Sampled:	03/02/23 10:22	Prepared:	03/07/23 10:21	File ID:	NT1003212313.D
% Solids:	47.78	Preparation:	EPA 3546 (Microwave)	Analyzed:	03/22/23 00:52
Batch:	BLC0109	Sequence:	SLC0451	Initial/Final:	20.95 g Wet / 1 mL
Instrument:	NT10	Column:	ZB-5MSi	Calibration:	GC00046
Cleanups:	GPC				

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
108-95-2	Phenol	1	18.5	J	4.4	20.0
106-44-5	4-Methylphenol	1	13.7	J	7.4	20.0
91-20-3	Naphthalene	1	15.3	J	4.2	20.0
91-57-6	2-Methylnaphthalene	1	11.1	J	4.5	20.0
208-96-8	Acenaphthylene	1	9.5	J	6.2	20.0
131-11-3	Dimethylphthalate	1	5.8	J	4.4	20.0
83-32-9	Acenaphthene	1	10.9	J	5.2	20.0
132-64-9	Dibenzofuran	1	20.0	U	14.1	20.0
86-73-7	Fluorene	1	14.7	J	14.6	20.0
85-01-8	Phenanthrene	1	82.1		8.7	20.0
120-12-7	Anthracene	1	38.0		7.2	20.0
206-44-0	Fluoranthene	1	220		6.1	20.0
129-00-0	Pyrene	1	197		5.7	20.0
85-68-7	Butylbenzylphthalate	1	22.2		9.4	20.0
56-55-3	Benzo(a)anthracene	1	91.4		6.0	20.0
218-01-9	Chrysene	1	139		6.1	20.0
117-81-7	bis(2-Ethylhexyl)phthalate	1	116		5.5	50.0
	Benzofluoranthenes, Total	1	238		10.0	40.0
50-32-8	Benzo(a)pyrene	1	94.7		4.2	20.0
193-39-5	Indeno(1,2,3-cd)pyrene	1	49.3		14.6	20.0
53-70-3	Dibenzo(a,h)anthracene	1	17.8	J	17.2	20.0
191-24-2	Benzo(g,h,i)perylene	1	56.6		13.6	20.0

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorophenol	749.26	499	66.7	27 - 120	
Phenol-d5	749.26	514	68.6	29 - 120	
2-Chlorophenol-d4	749.26	557	74.3	31 - 120	
1,2-Dichlorobenzene-d4	499.51	341	68.3	32 - 120	
Nitrobenzene-d5	499.51	352	70.5	30 - 120	
2-Fluorobiphenyl	499.51	385	77.1	35 - 120	

LDW23-SS1044

Form I

ORGANIC ANALYSIS DATA SHEET

EPA 8270E

Semivolatiles (20ug/kg - 0.2ug/L SepF)

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0071-04 A	SDG:	23C0071
Sampled:	03/02/23 10:22	Prepared:	03/07/23 10:21	File ID:	NT1003212313.D
% Solids:	47.78	Preparation:	EPA 3546 (Microwave)	Analyzed:	03/22/23 00:52
Batch:	BLC0109	Sequence:	SLC0451	Initial/Final:	20.95 g Wet / 1 mL
Instrument:	NT10	Column:	ZB-5MSi	Calibration:	GC00046
Cleanups:	GPC				

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2,4,6-Tribromophenol	749.26	818	109	24 - 134	
p-Terphenyl-d14	499.51	400	80.1	37 - 120	

Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212313.D

Page 1

Date : 22-MAR-2023 00:52

Client ID:

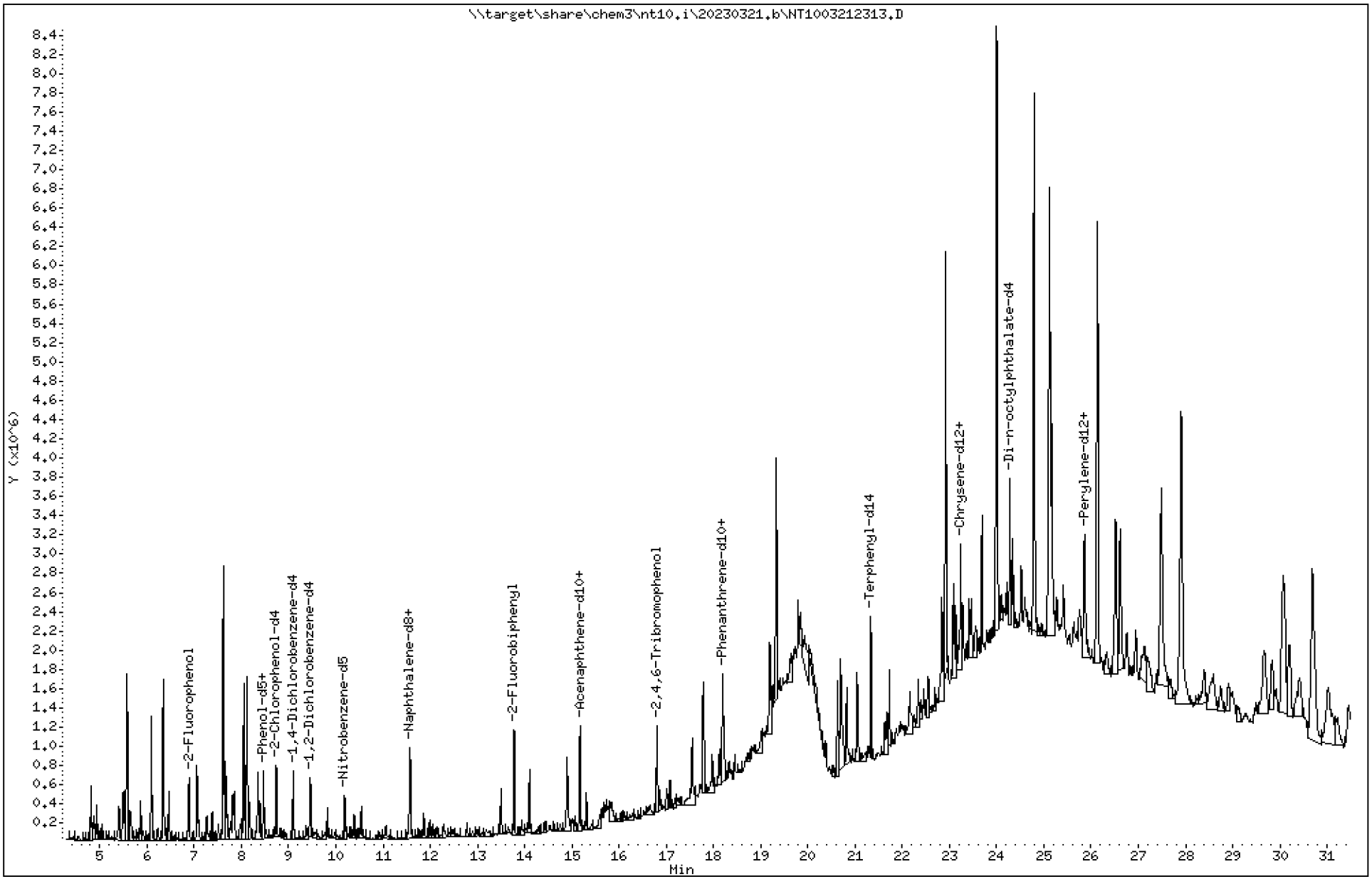
Instrument: nt10.i

Sample Info: 23C0071-04

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212313.D

Date : 22-MAR-2023 00:52

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-04

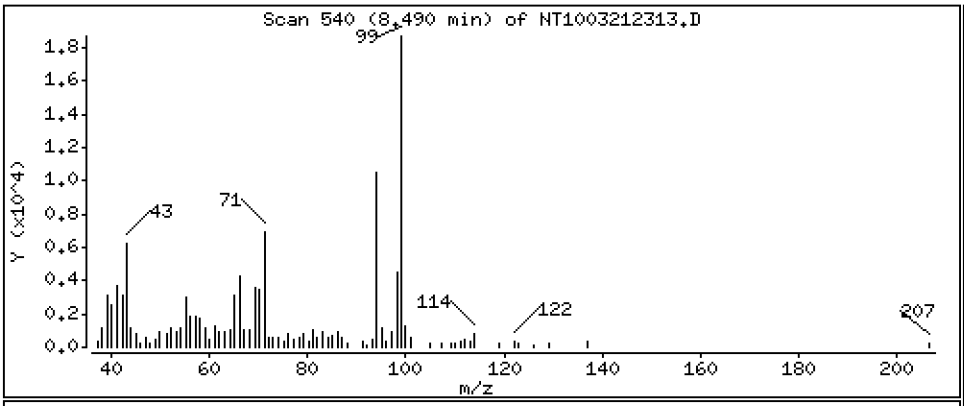
Operator: VTS

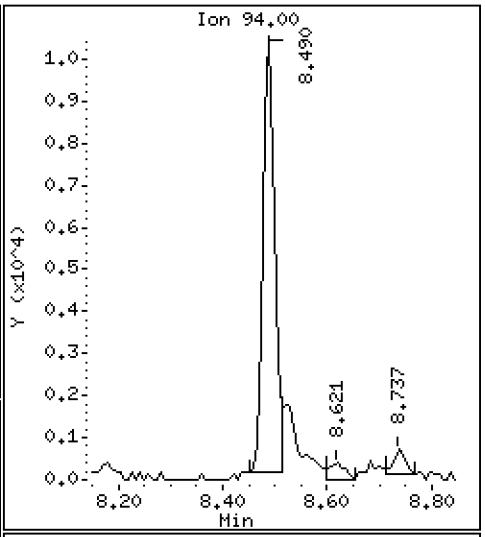
Column phase: ZB-5msi

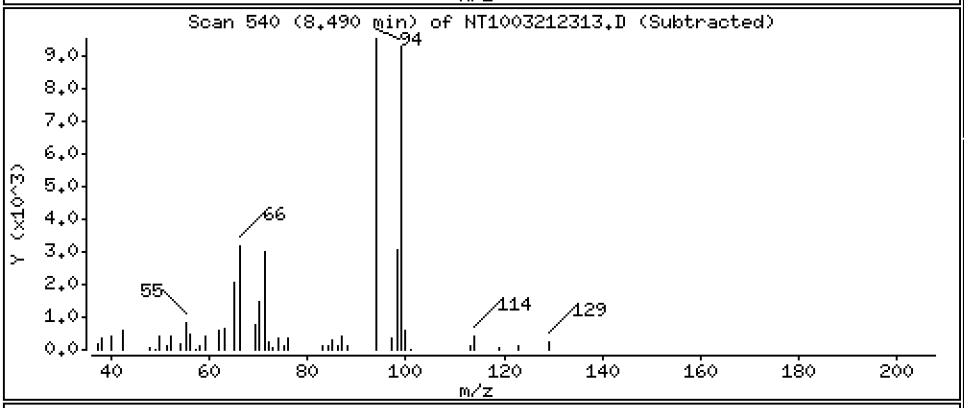
Column diameter: 0.25

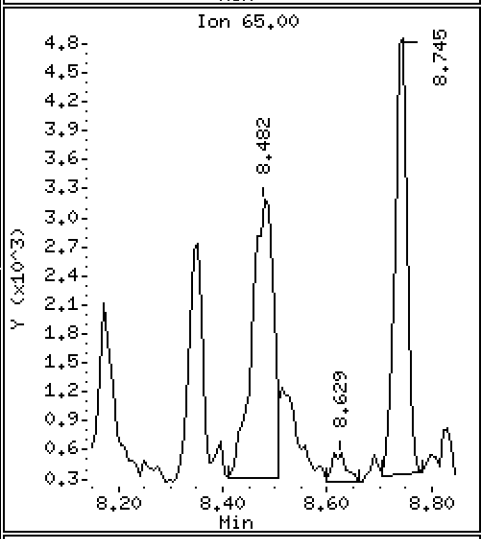
3 Phenol

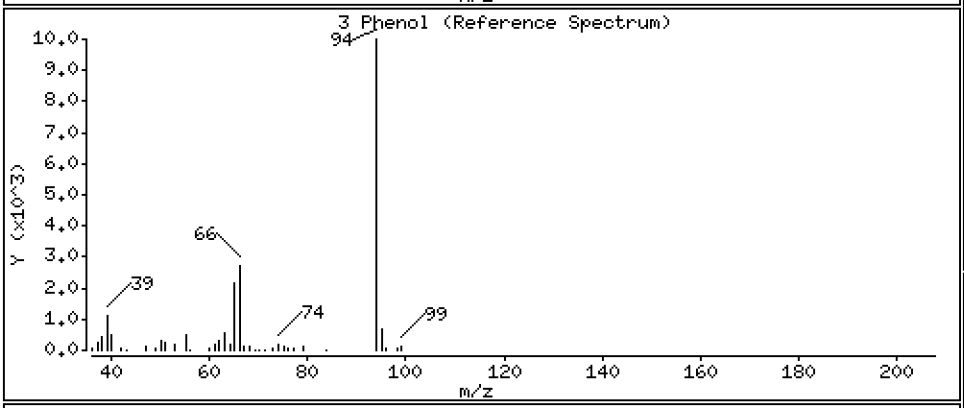
Concentration: 0.1852 ug/mL

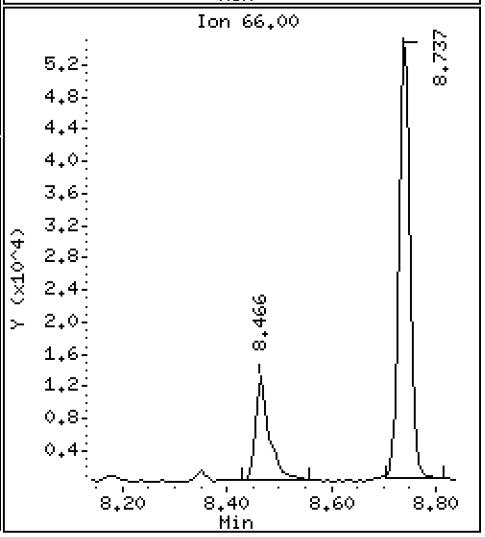


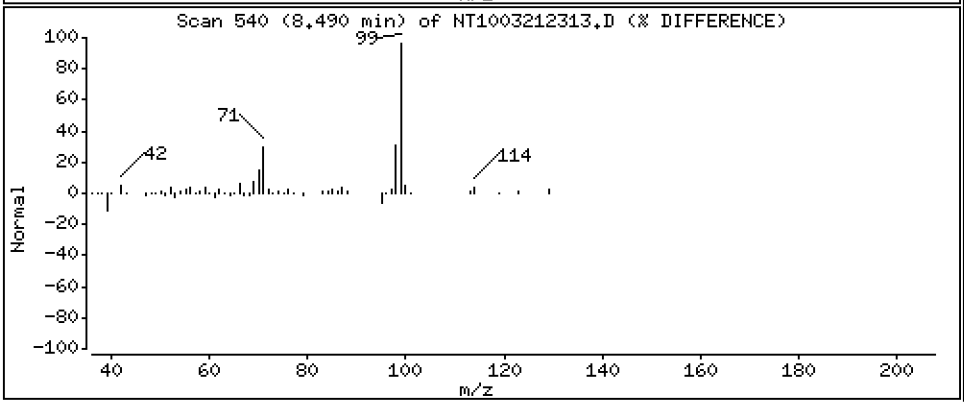












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Date : 22-MAR-2023 00:52

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-04

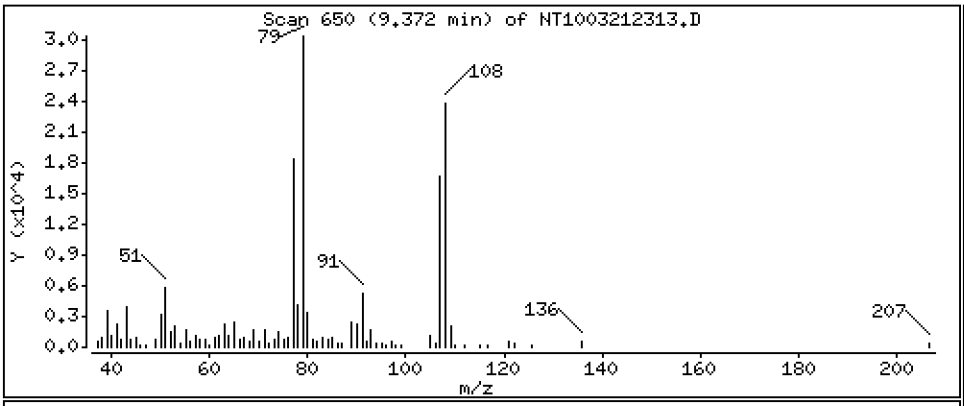
Operator: VTS

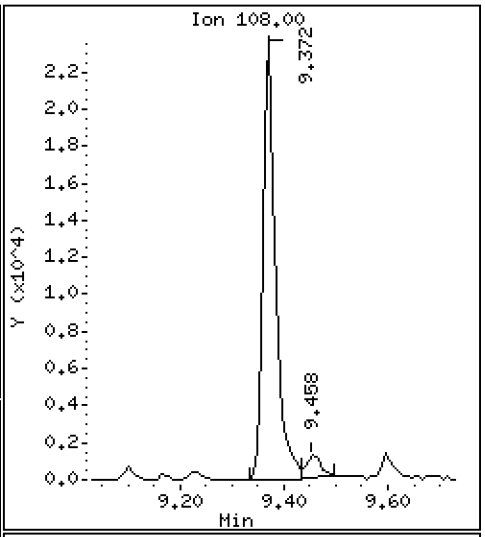
Column phase: ZB-5msi

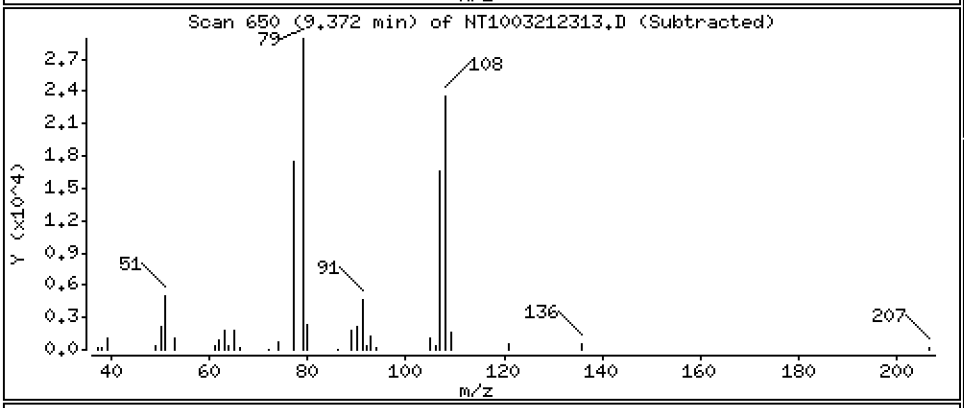
Column diameter: 0.25

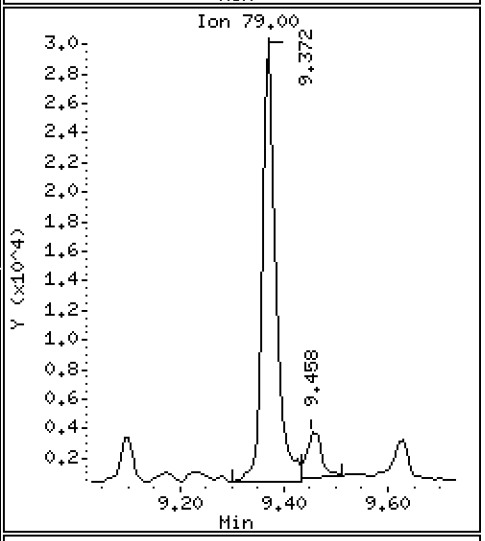
11 Benzyl alcohol

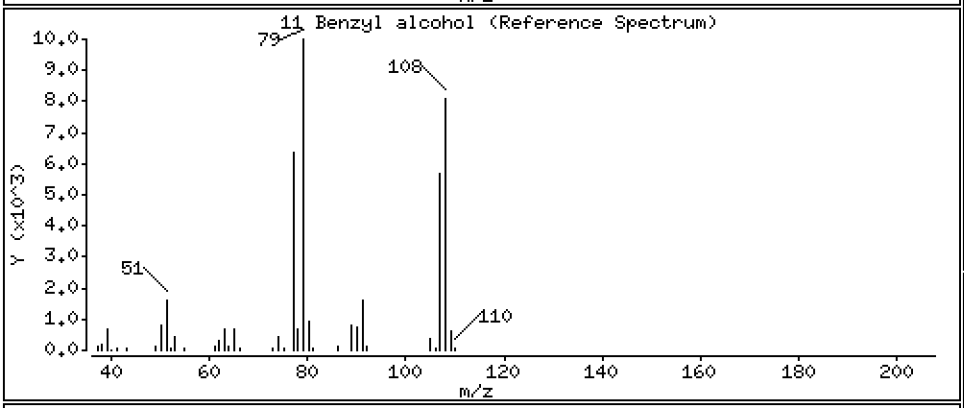
Concentration: 1.022 ug/mL

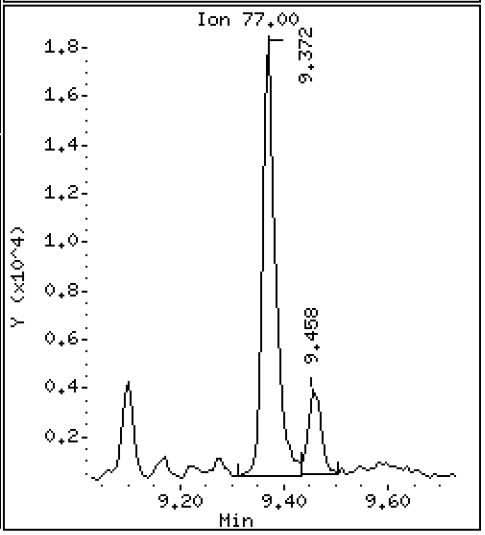


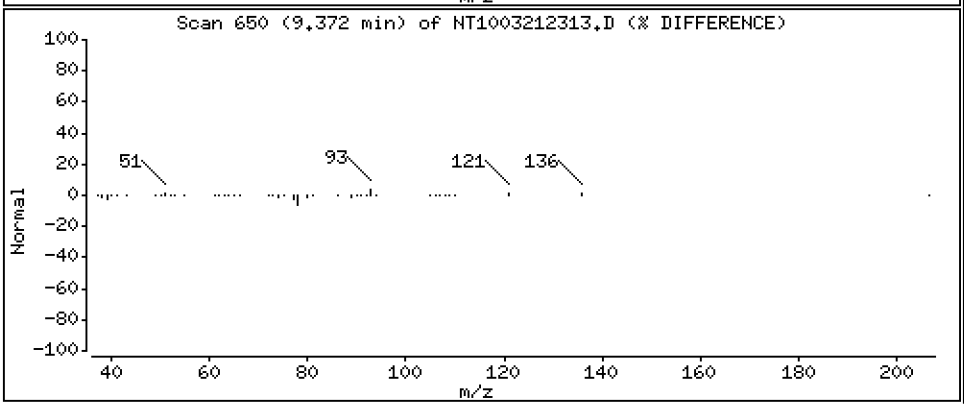












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Date : 22-MAR-2023 00:52

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-04

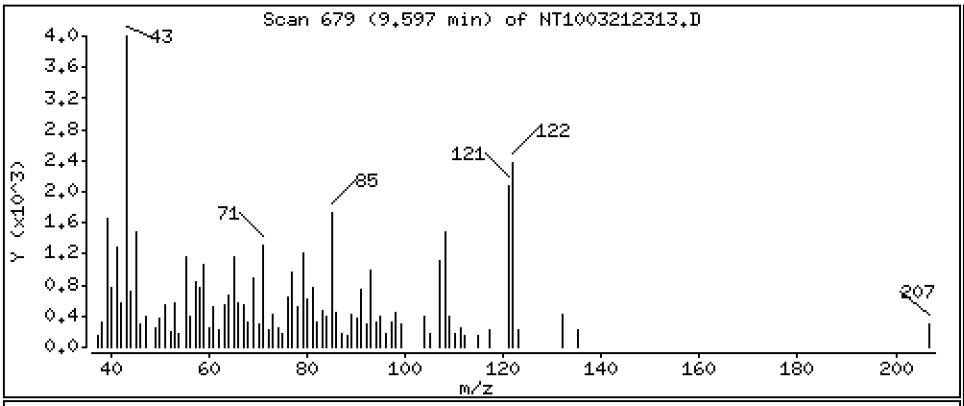
Operator: VTS

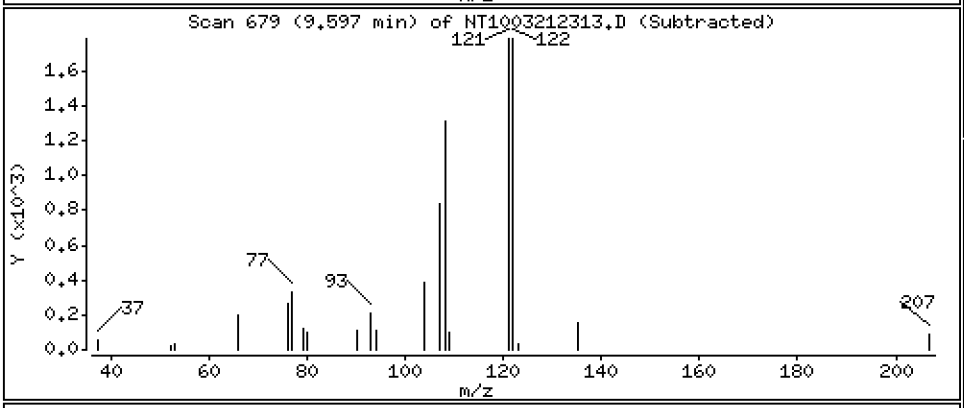
Column phase: ZB-5msi

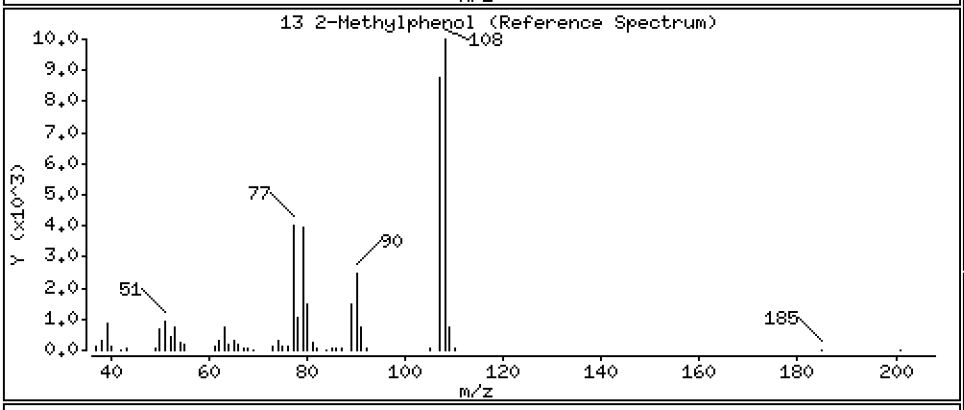
Column diameter: 0.25

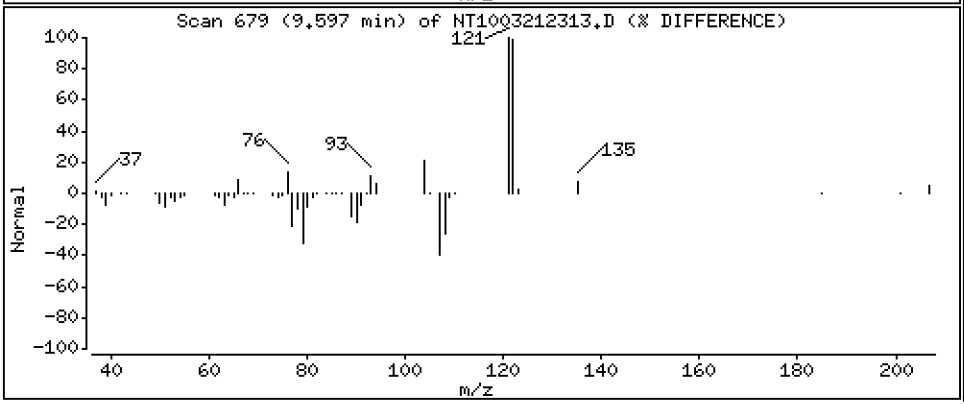
13 2-Methylphenol

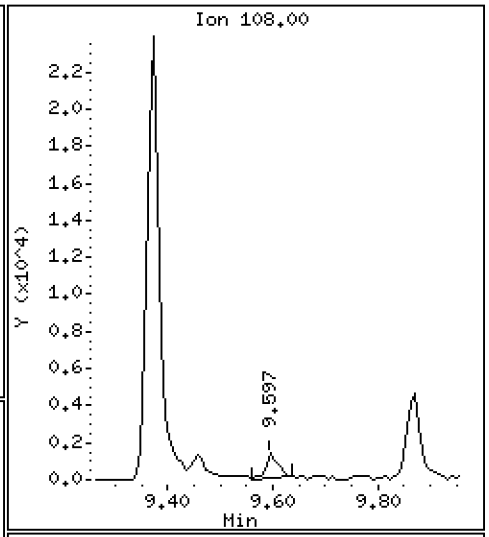
Concentration: 0.03400 ug/mL

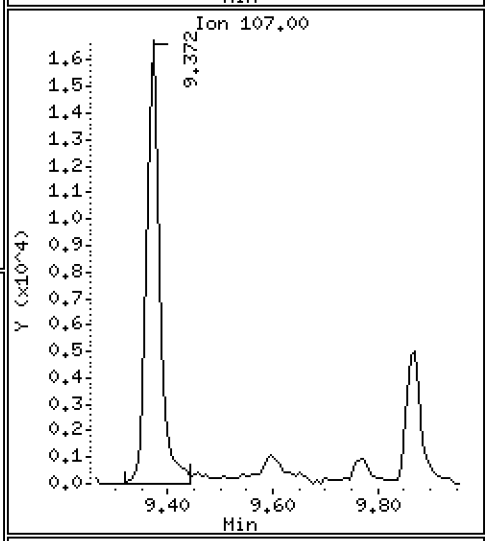


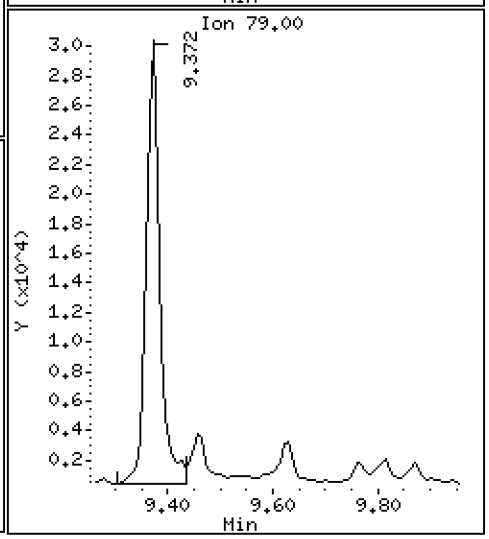












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Date : 22-MAR-2023 00:52

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-04

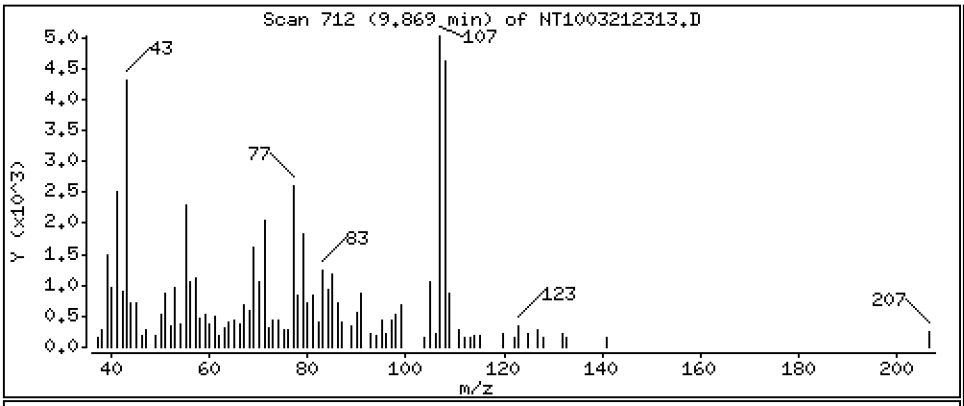
Operator: VTS

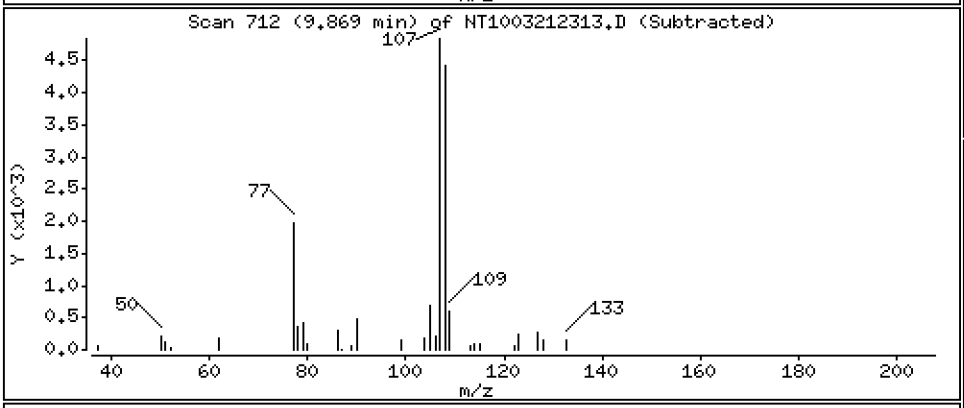
Column phase: ZB-5msi

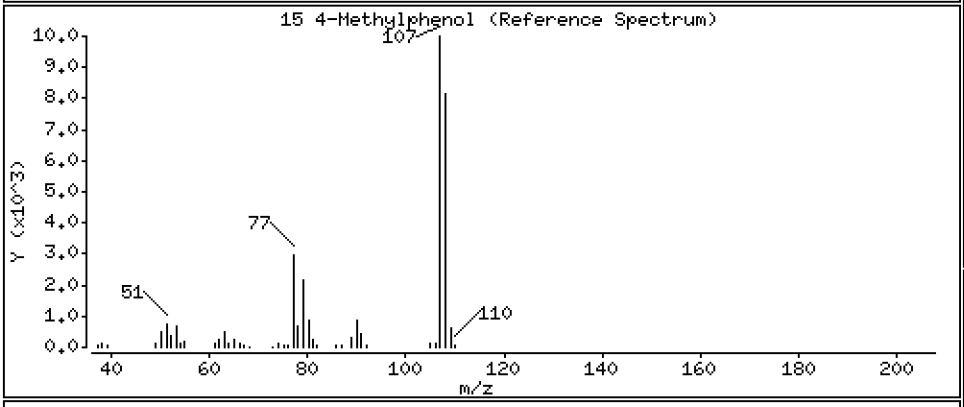
Column diameter: 0.25

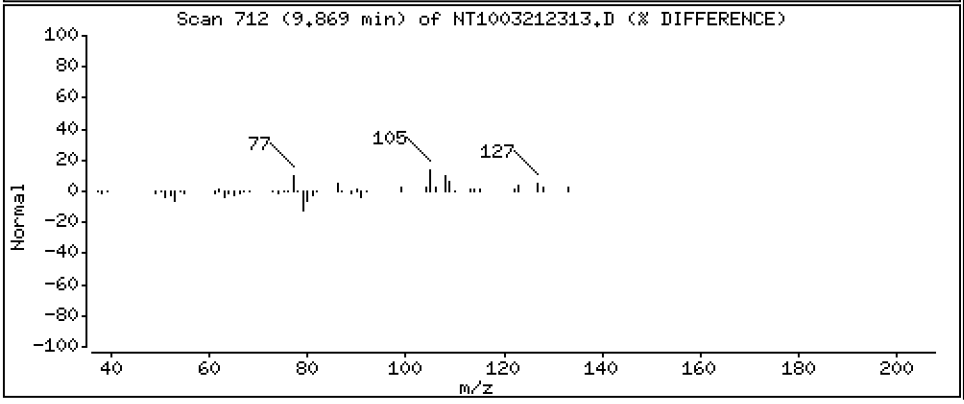
15 4-Methylphenol

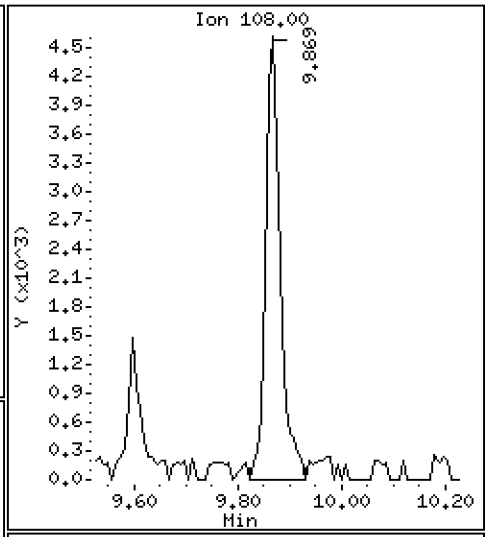
Concentration: 0.1373 ug/mL

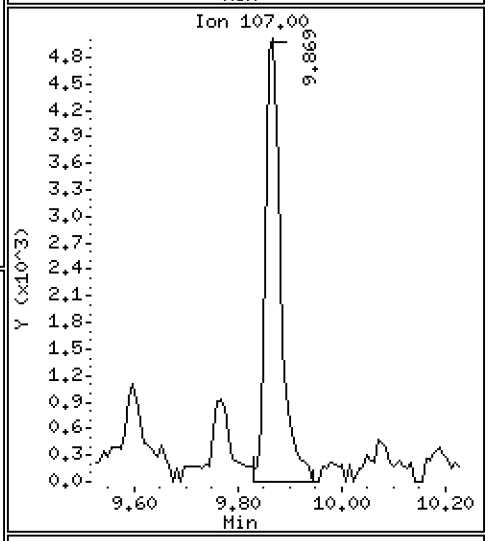


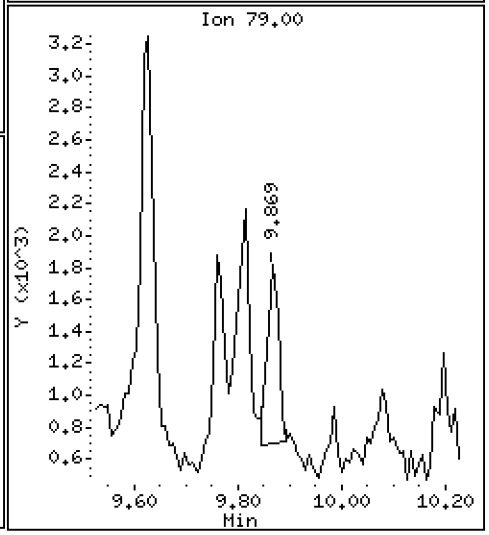












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Date : 22-MAR-2023 00:52

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-04

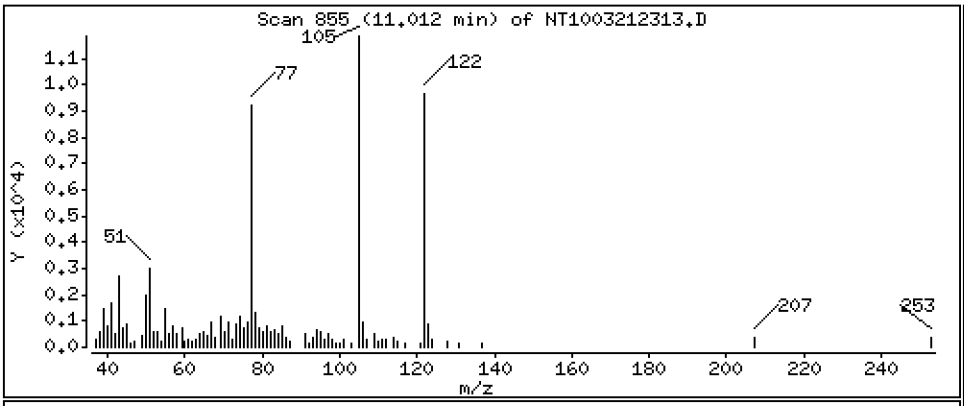
Operator: VTS

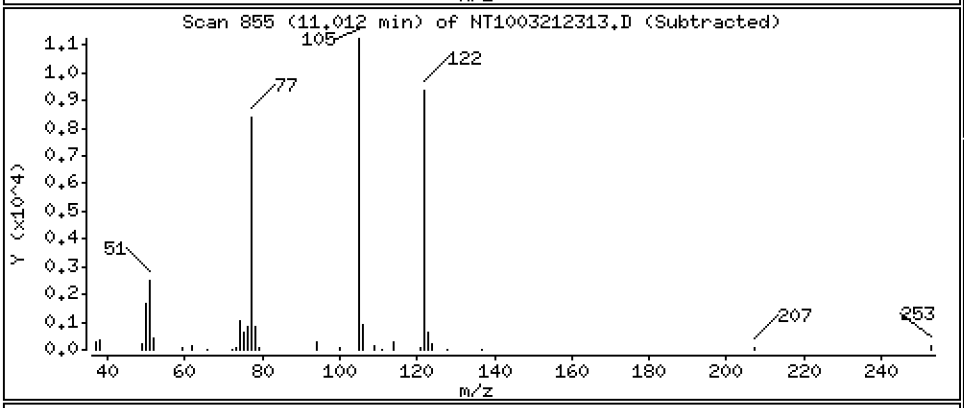
Column phase: ZB-5msi

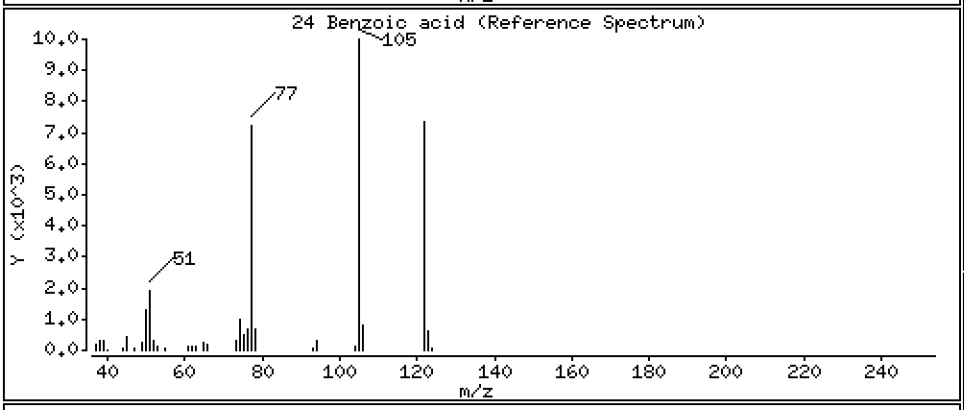
Column diameter: 0.25

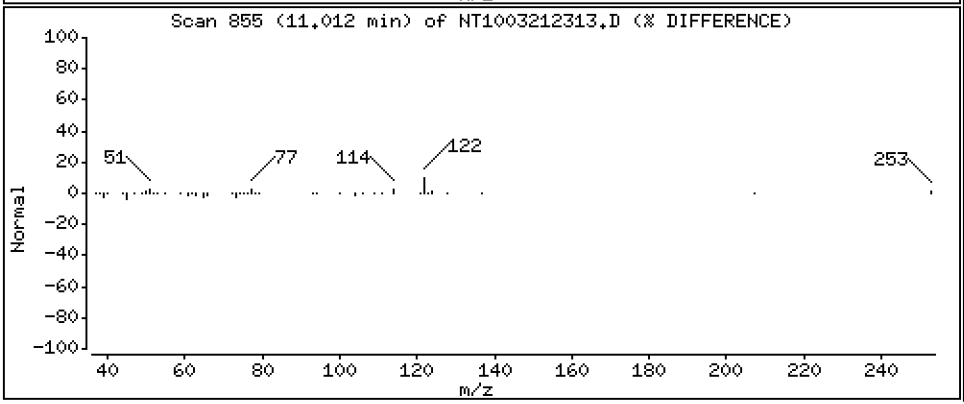
24 Benzoic acid

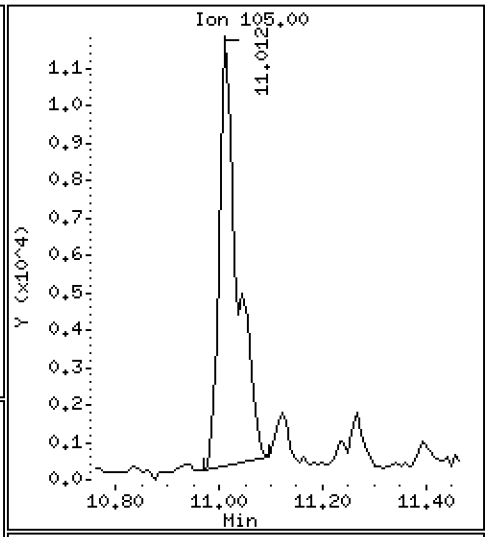
Concentration: 0.7550 ug/mL

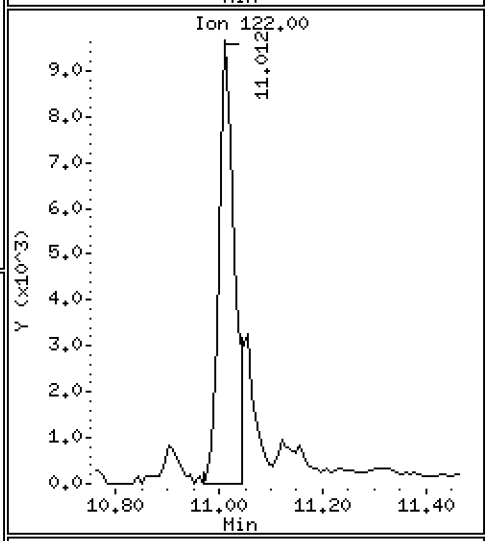


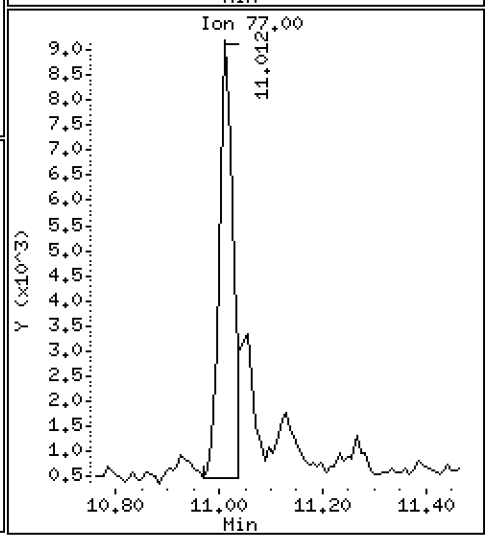












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Date : 22-MAR-2023 00:52

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-04

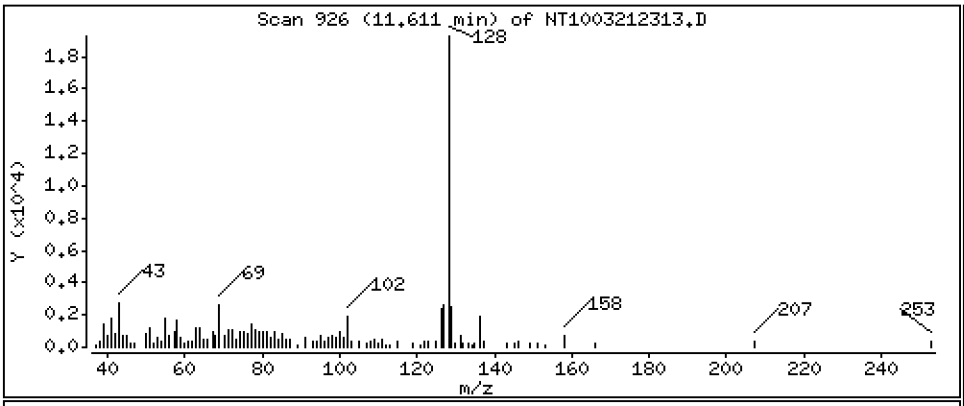
Operator: VTS

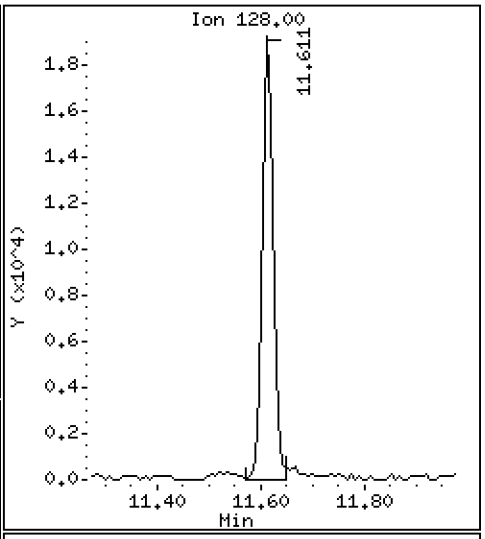
Column phase: ZB-5msi

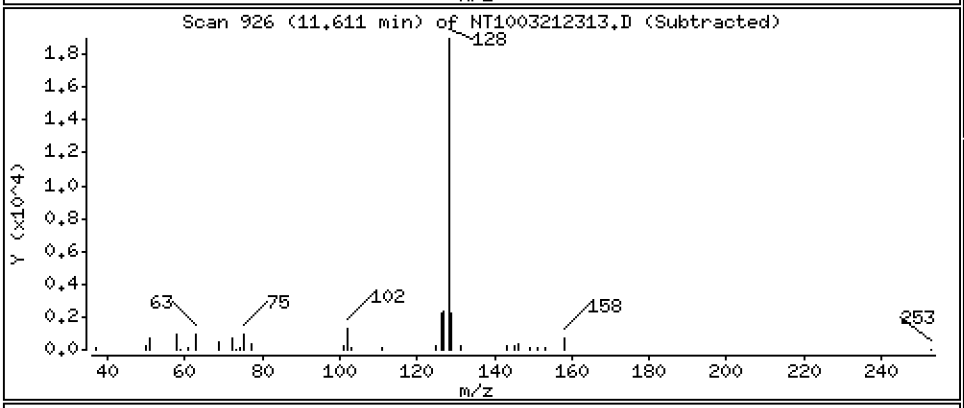
Column diameter: 0.25

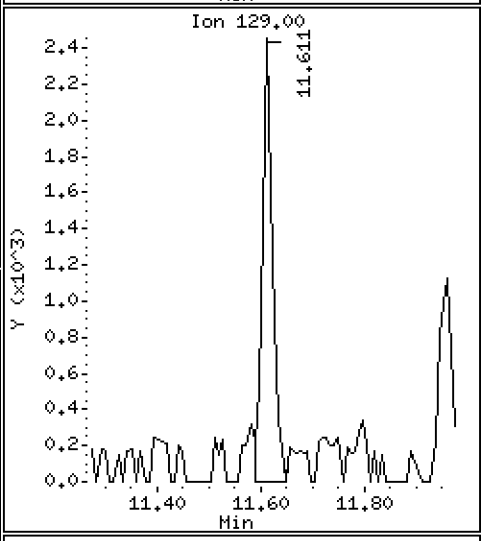
28 Naphthalene

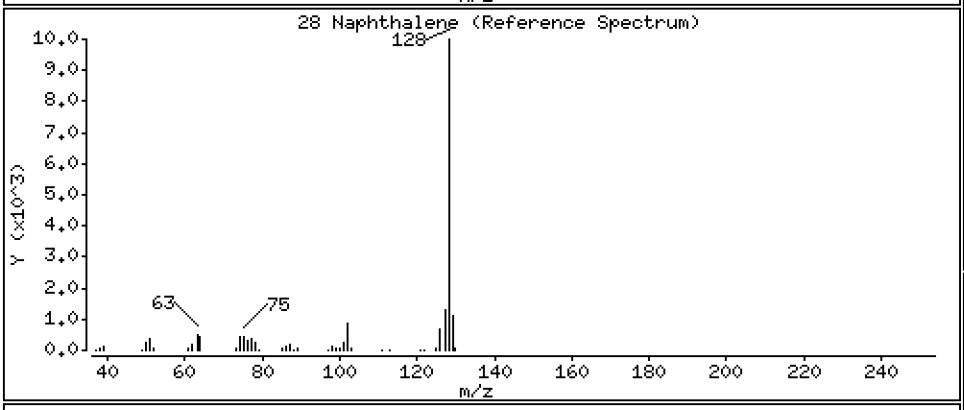
Concentration: 0.1534 ug/mL

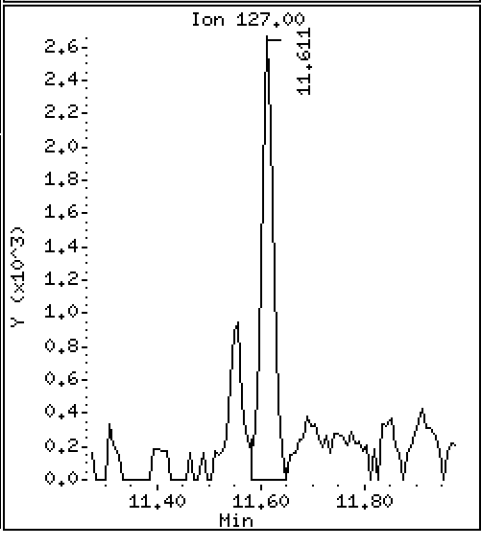


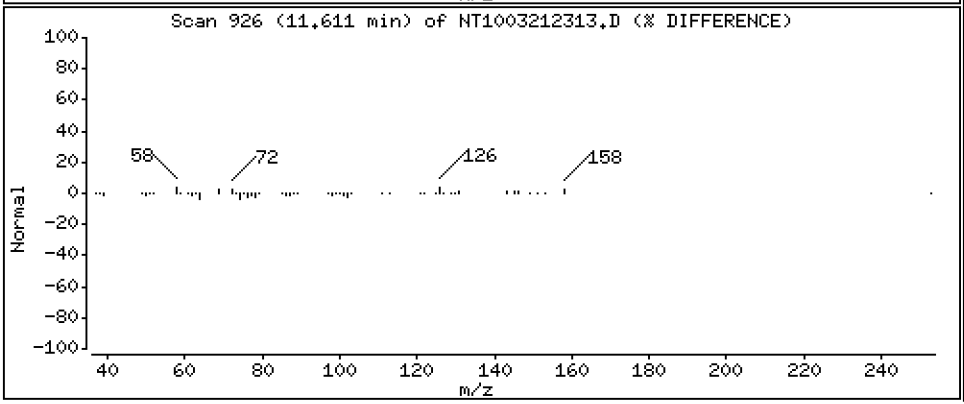












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Date : 22-MAR-2023 00:52

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-04

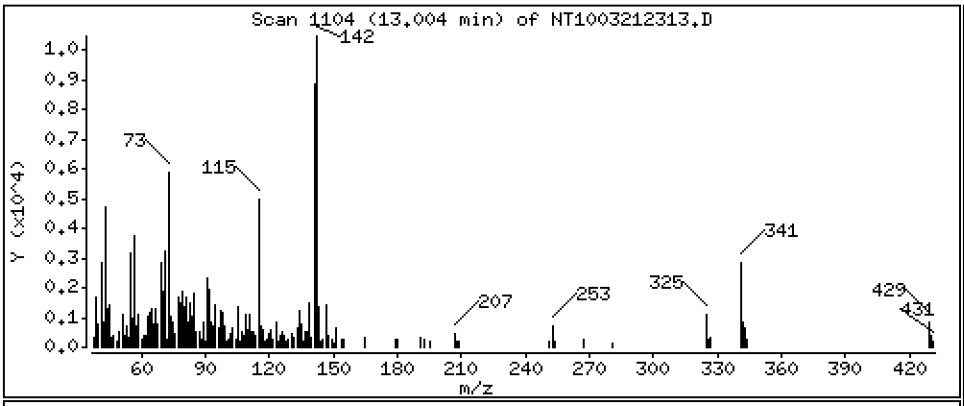
Operator: VTS

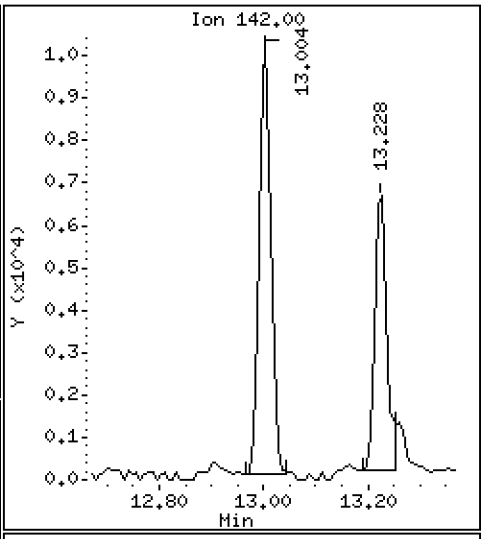
Column phase: ZB-5msi

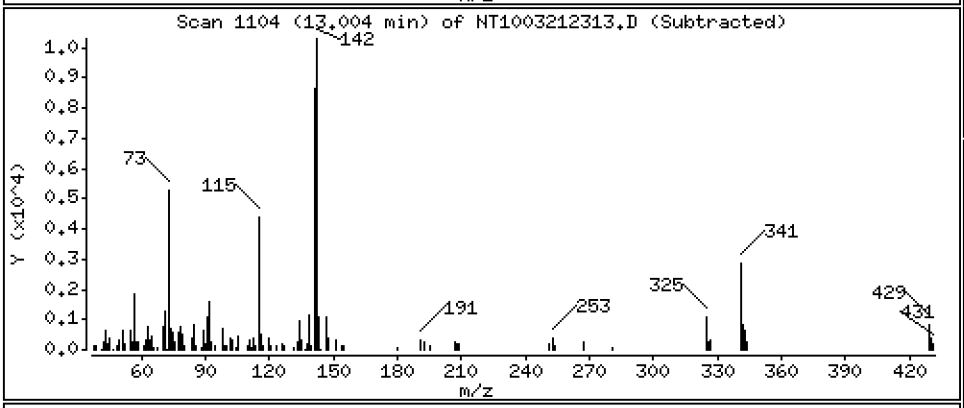
Column diameter: 0.25

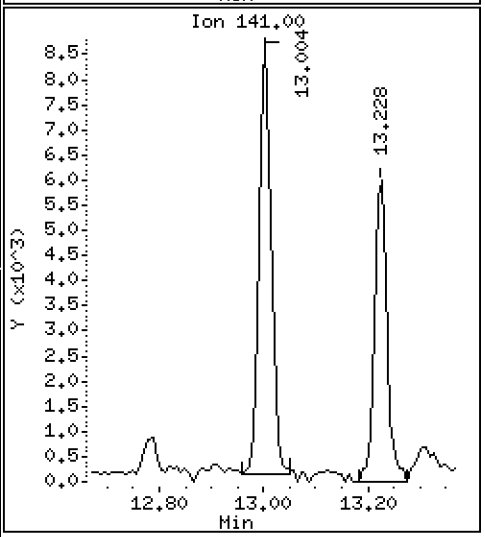
32 2-Methylnaphthalene

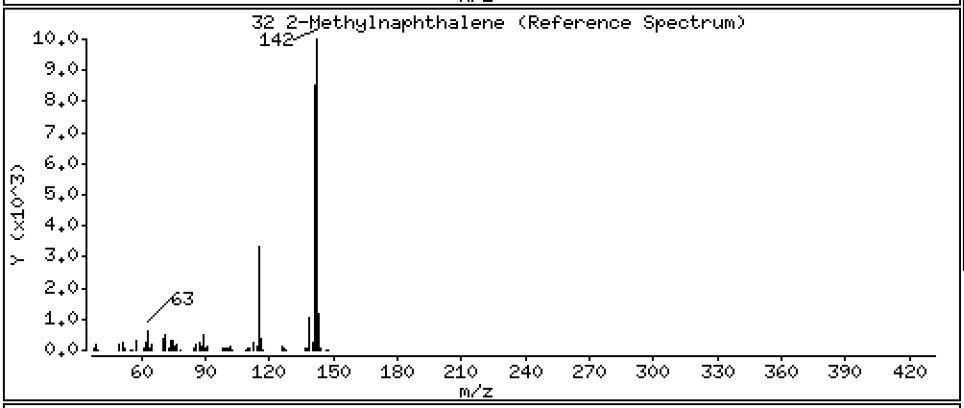
Concentration: 0.1115 ug/mL

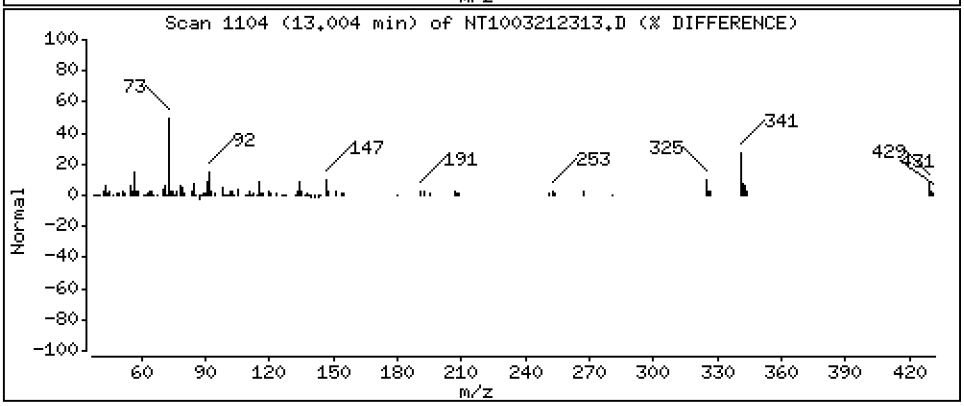












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Date : 22-MAR-2023 00:52

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-04

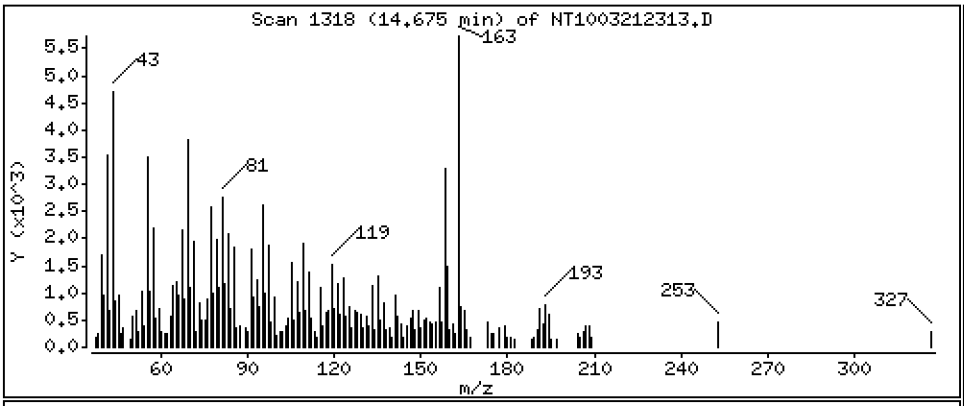
Operator: VTS

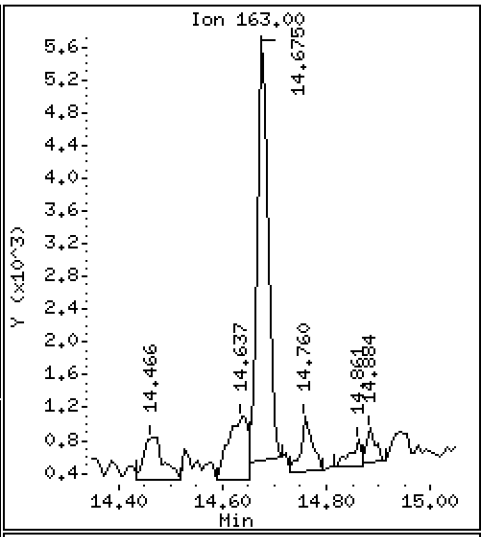
Column phase: ZB-5msi

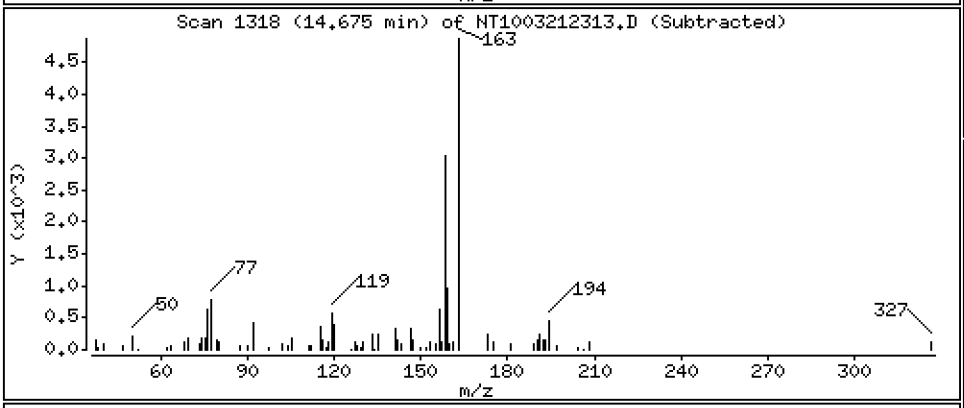
Column diameter: 0.25

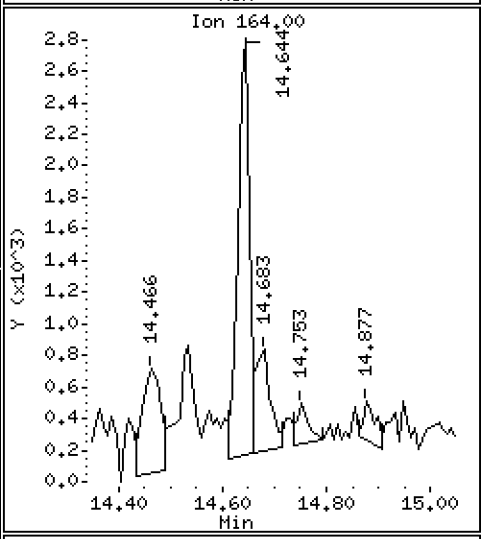
39 Dimethylphthalate

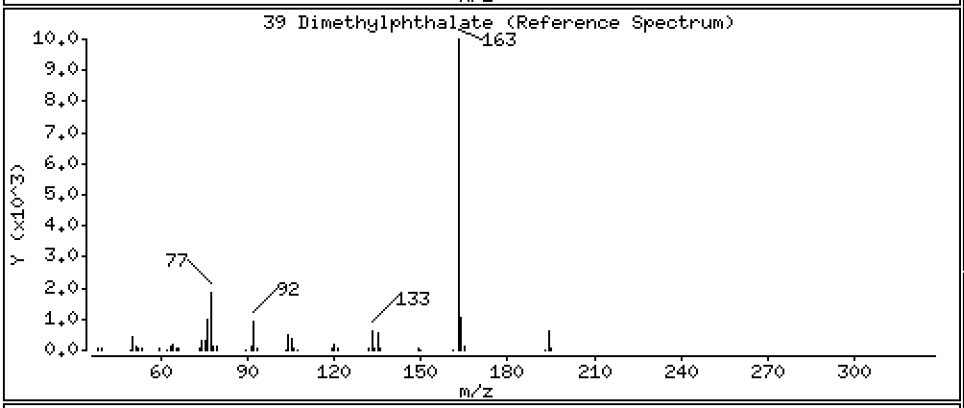
Concentration: 0.05840 ug/mL

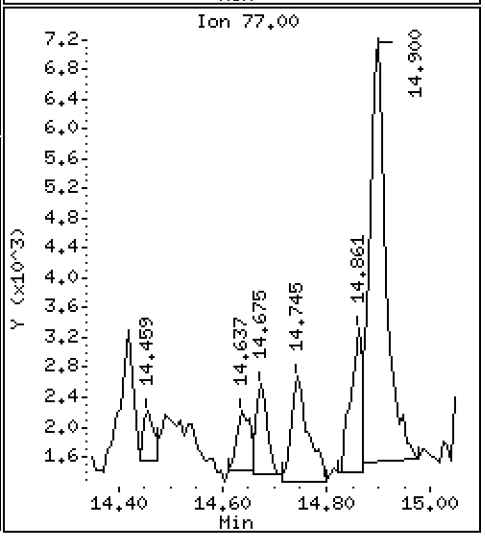


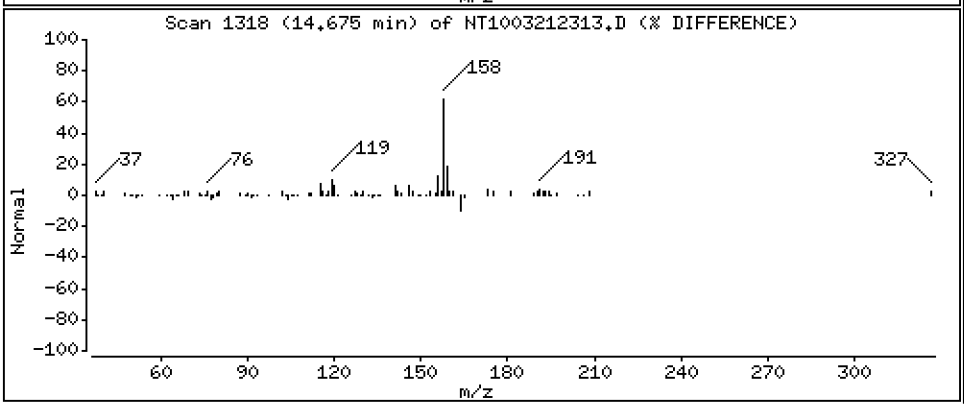












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Date : 22-MAR-2023 00:52

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-04

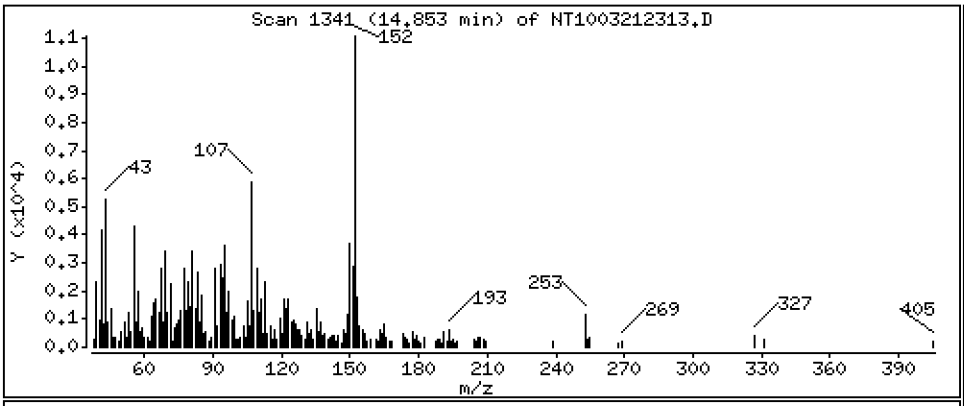
Operator: VTS

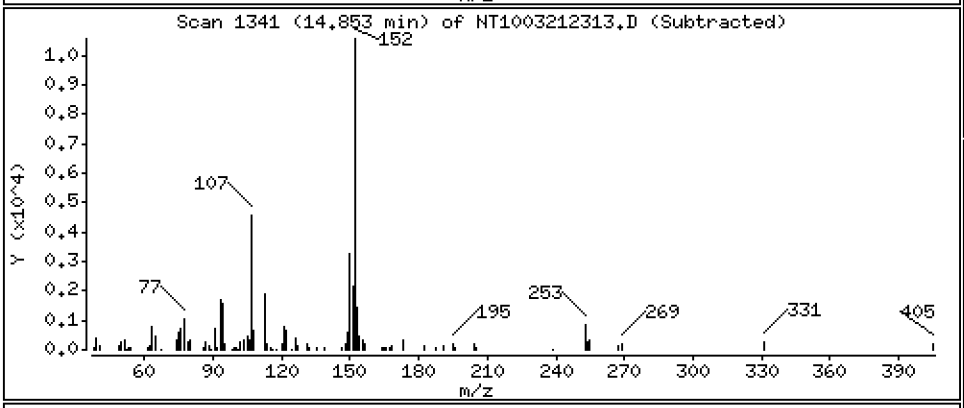
Column phase: ZB-5msi

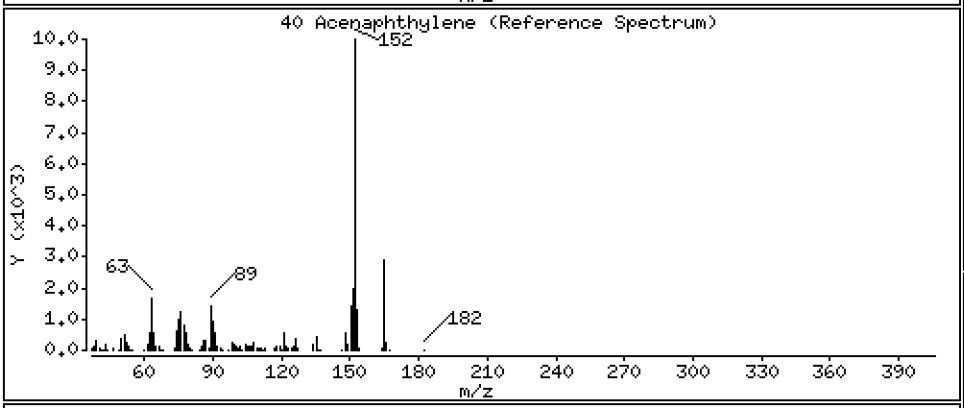
Column diameter: 0.25

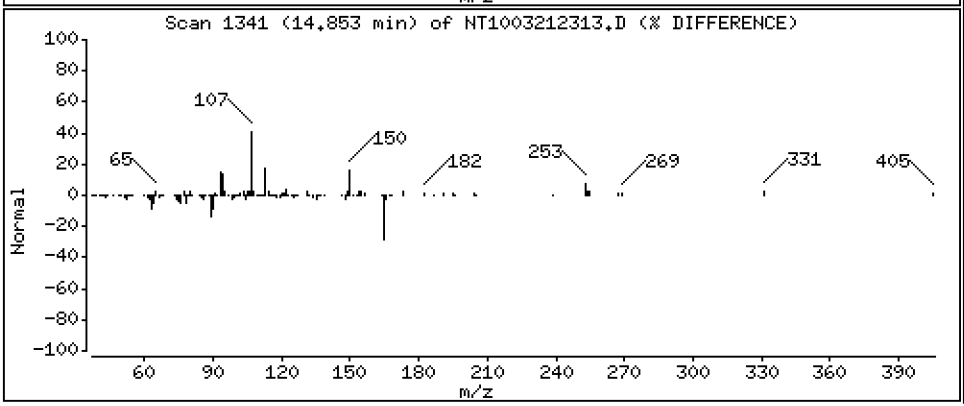
40 Acenaphthylene

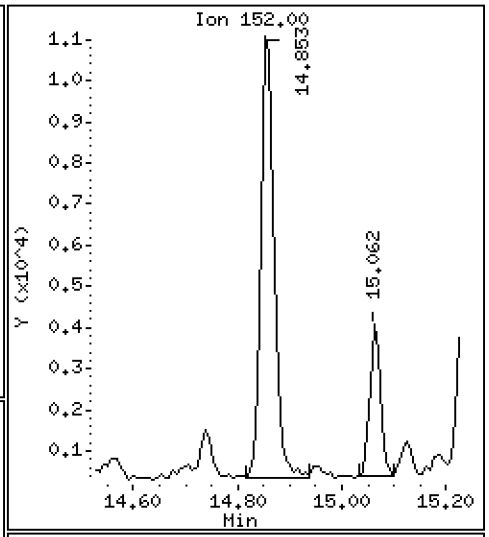
Concentration: 0.09559 ug/mL

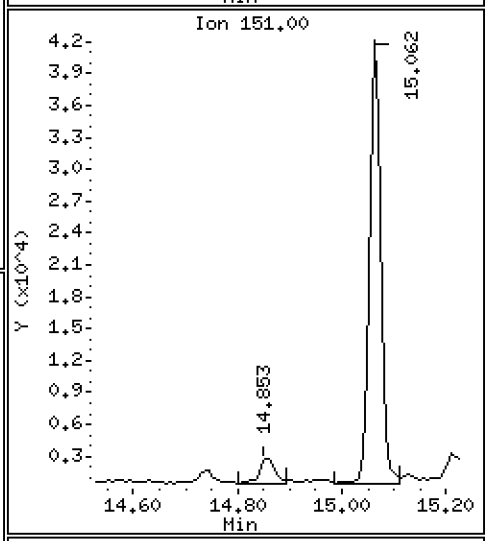


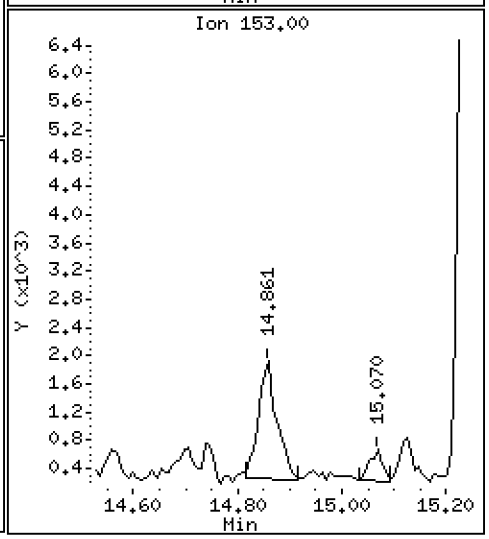












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Date : 22-MAR-2023 00:52

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-04

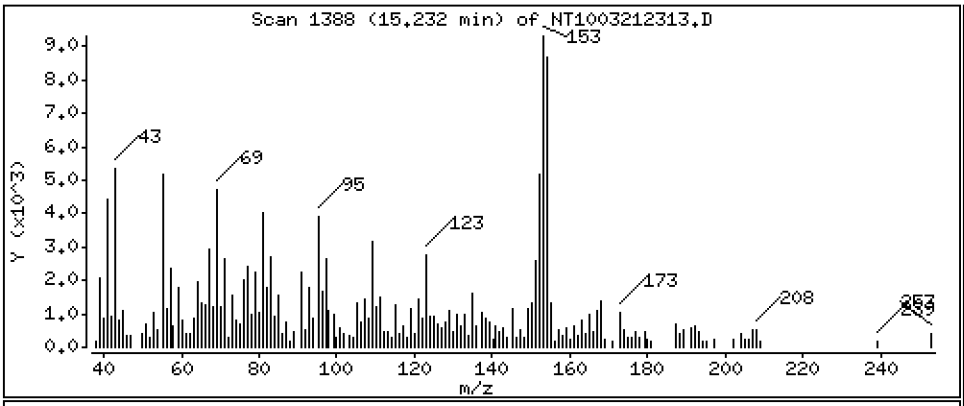
Operator: VTS

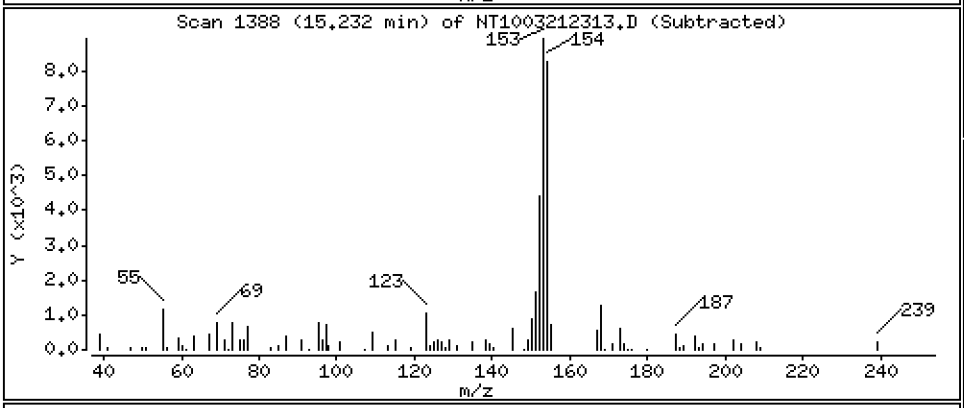
Column phase: ZB-5msi

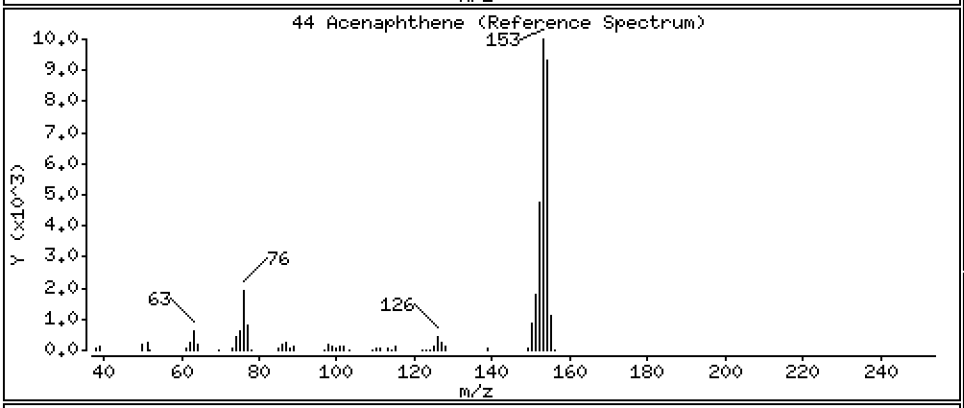
Column diameter: 0.25

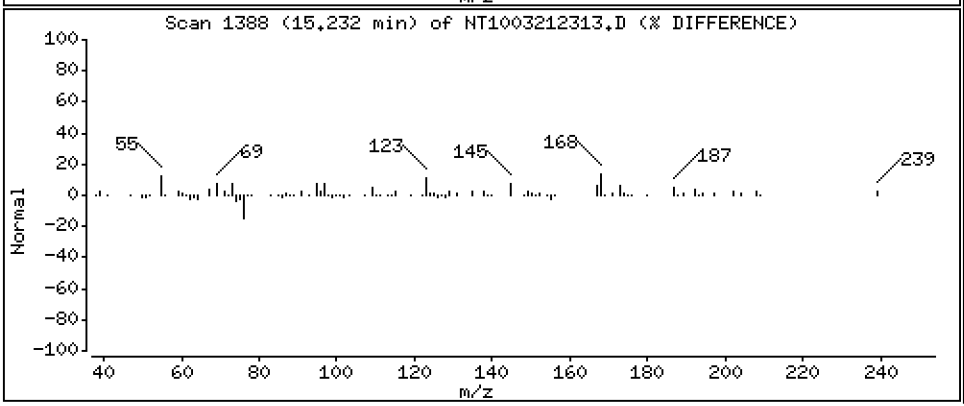
44 Acenaphthene

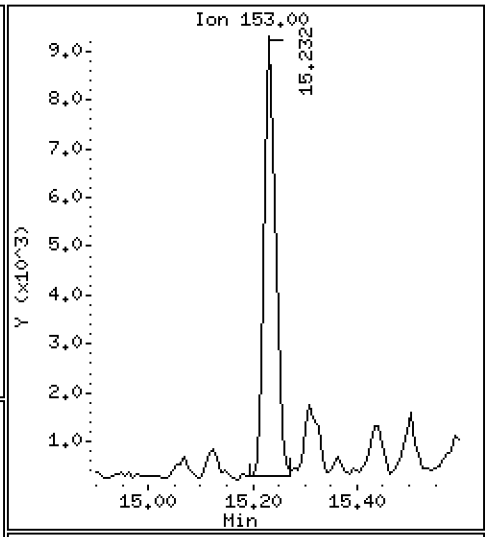
Concentration: 0.1091 ug/mL

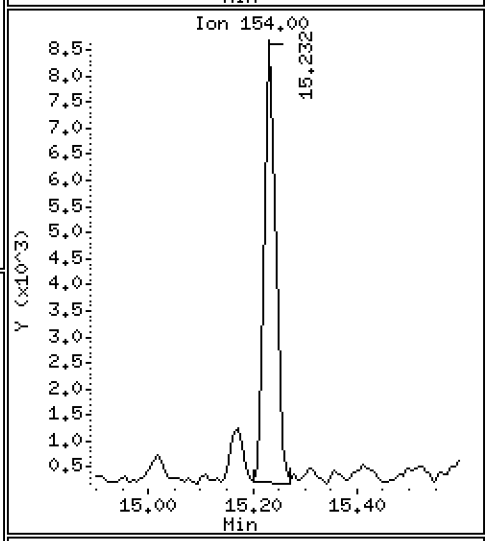


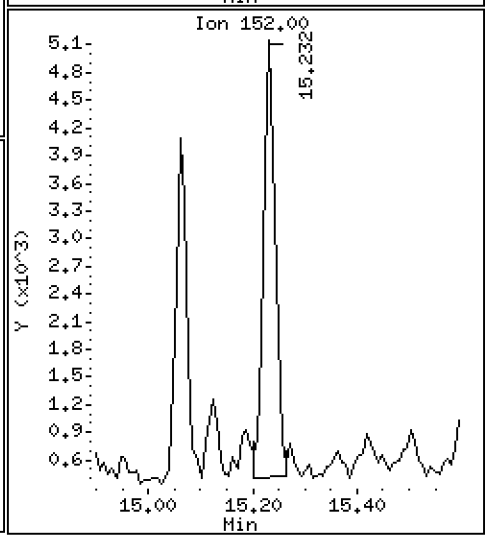












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Date : 22-MAR-2023 00:52

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-04

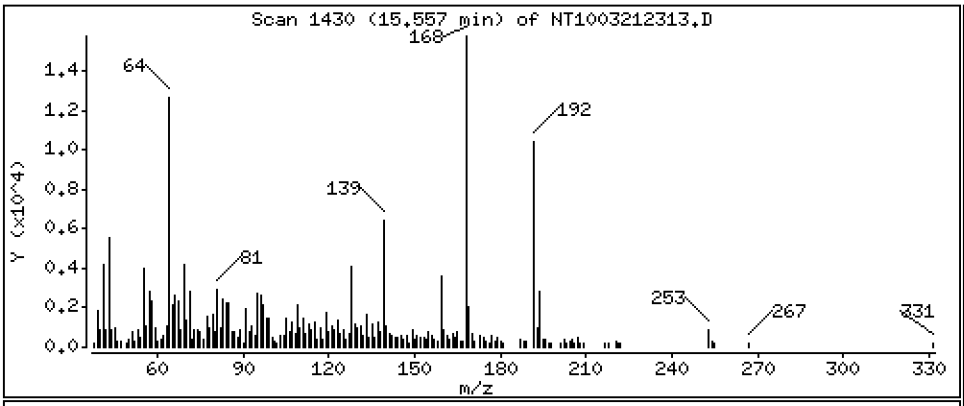
Operator: VTS

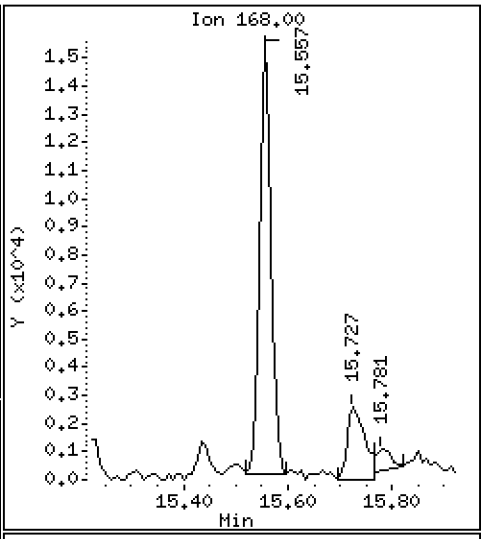
Column phase: ZB-5msi

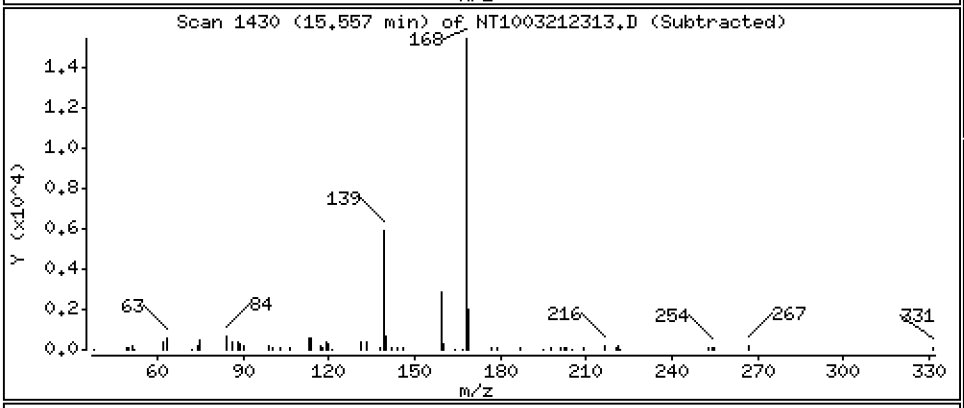
Column diameter: 0.25

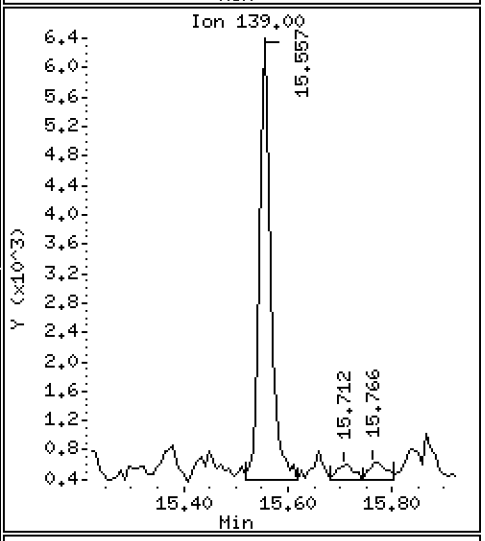
46 Dibenzofuran

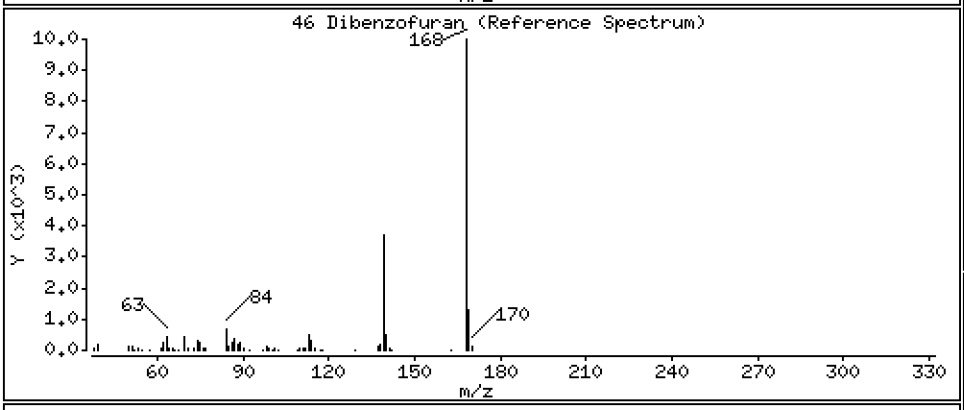
Concentration: 0.1287 ug/mL

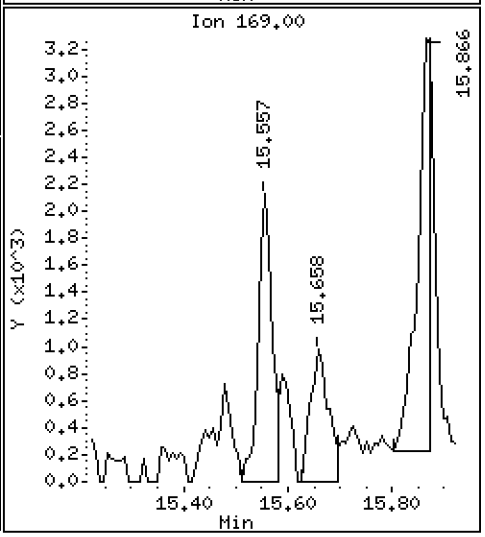


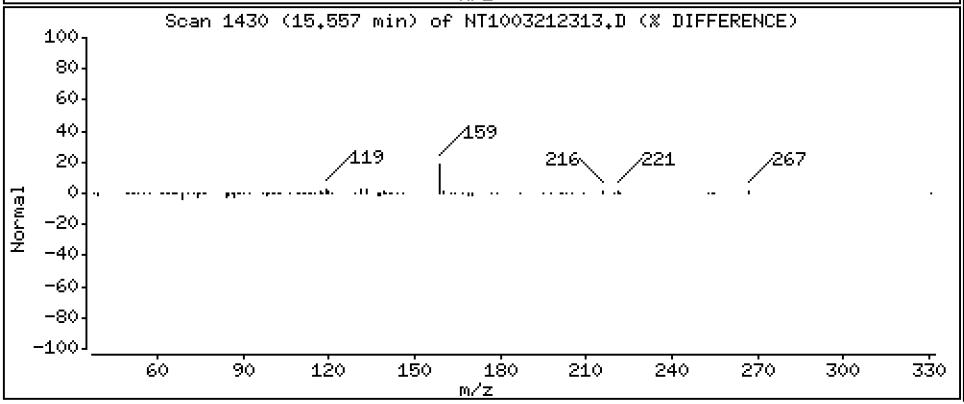












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Date : 22-MAR-2023 00:52

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-04

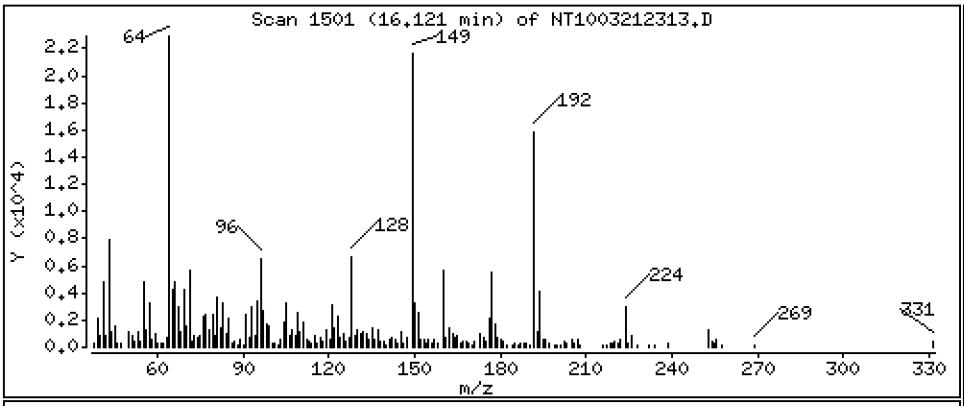
Operator: VTS

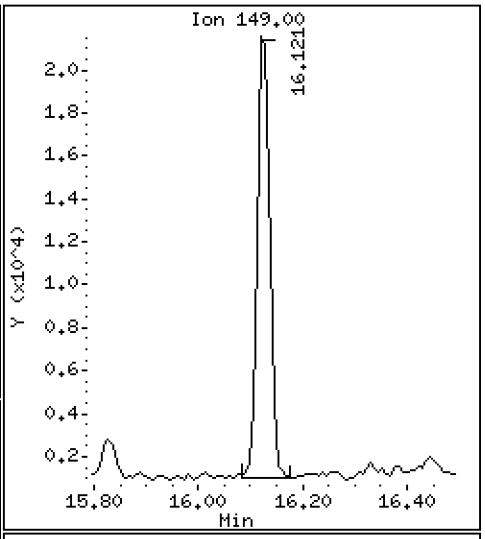
Column phase: ZB-5msi

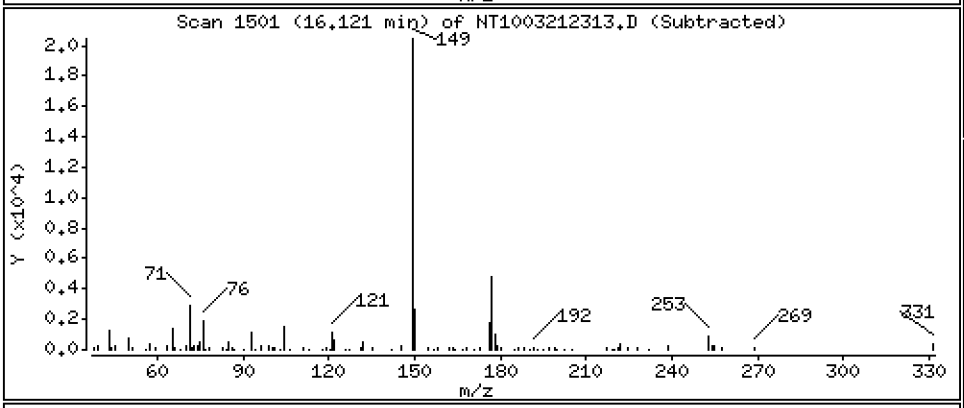
Column diameter: 0.25

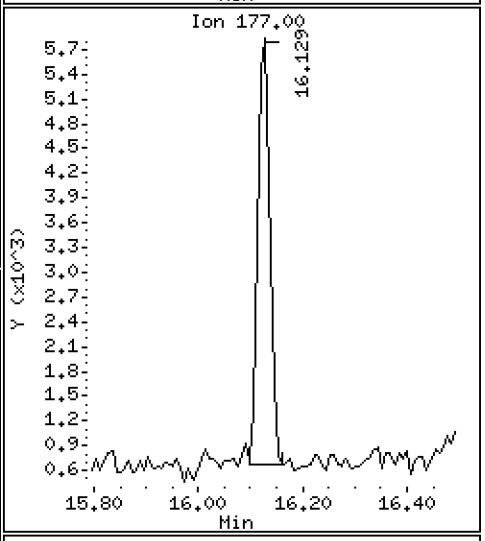
50 Diethylphthalate

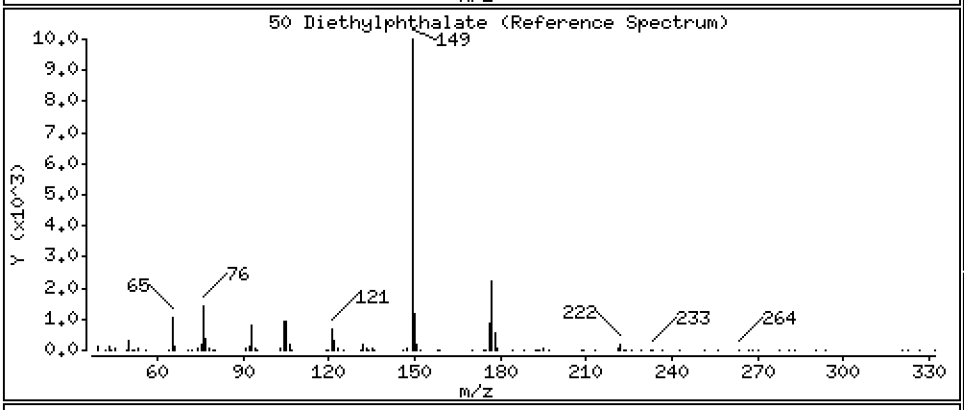
Concentration: 0.2579 ug/mL

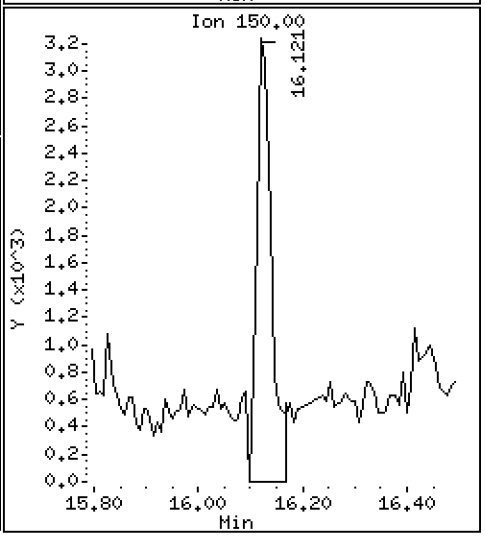


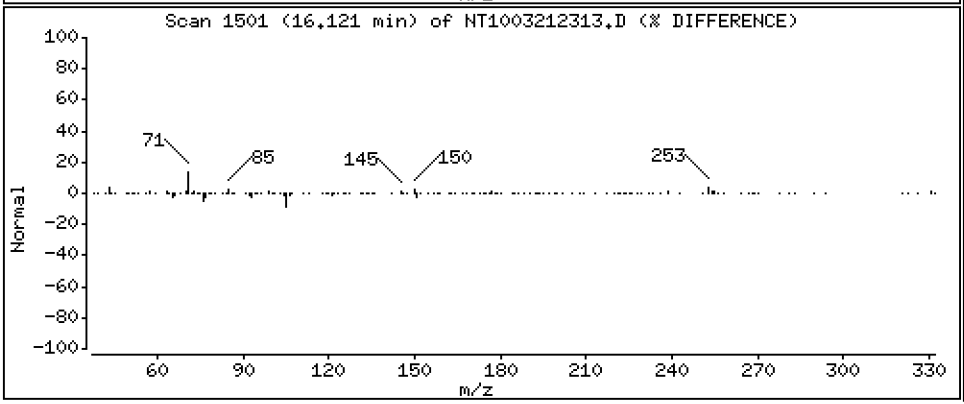












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Date : 22-MAR-2023 00:52

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-04

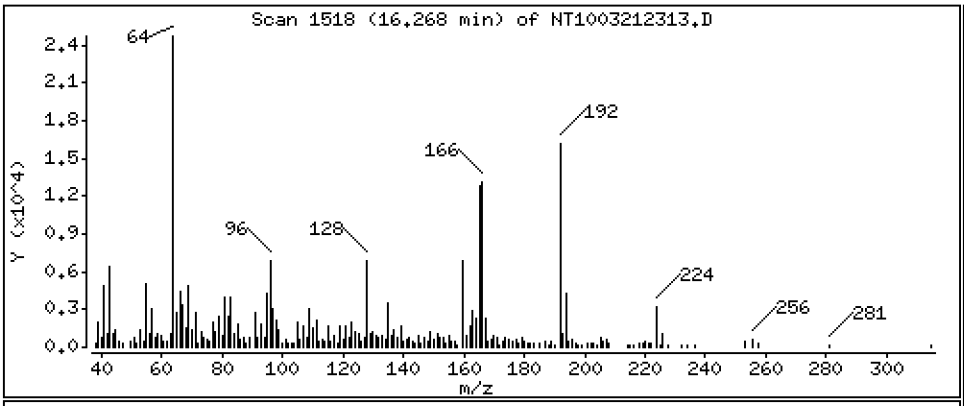
Operator: VTS

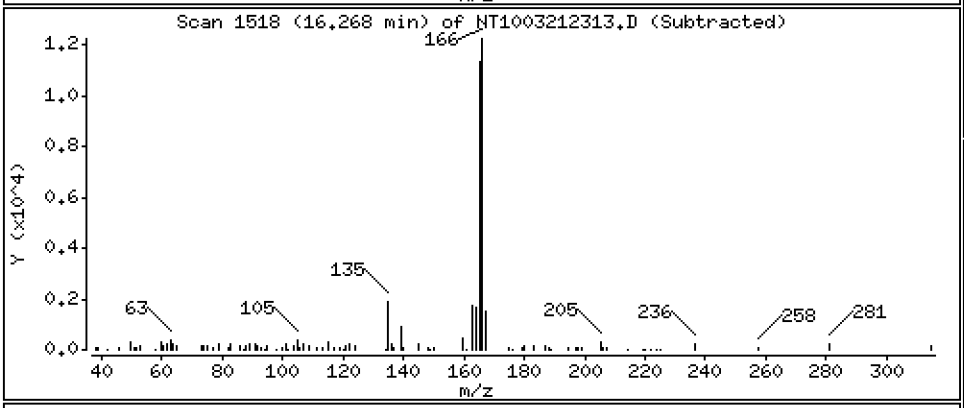
Column phase: ZB-5msi

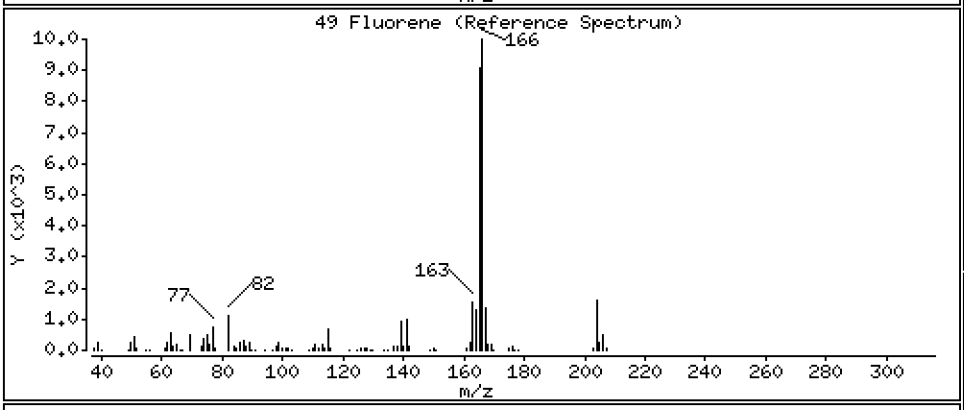
Column diameter: 0.25

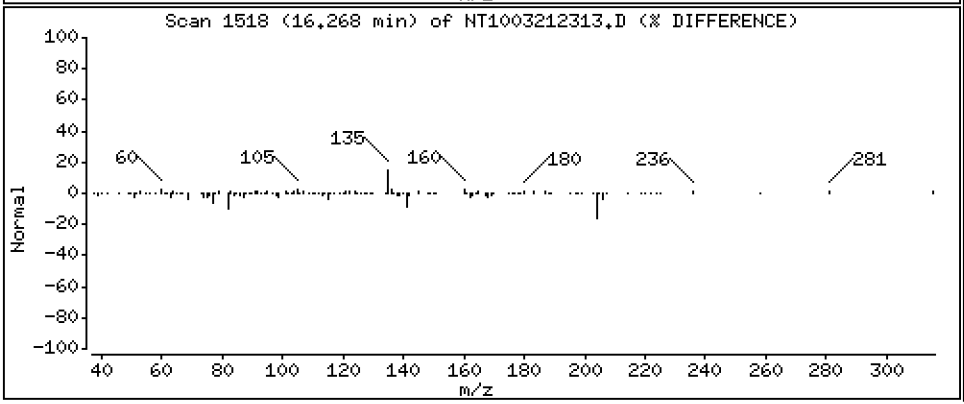
49 Fluorene

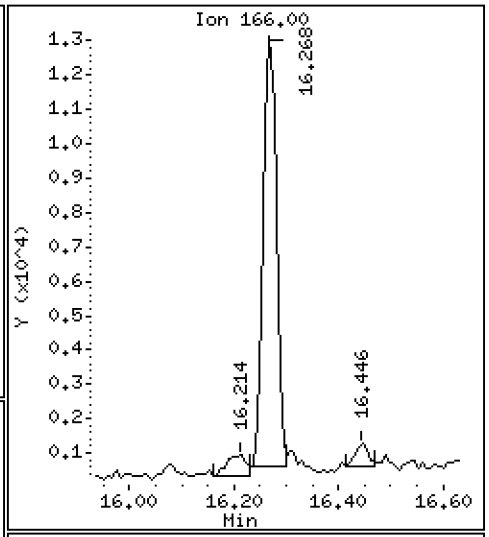
Concentration: 0.1472 ug/mL

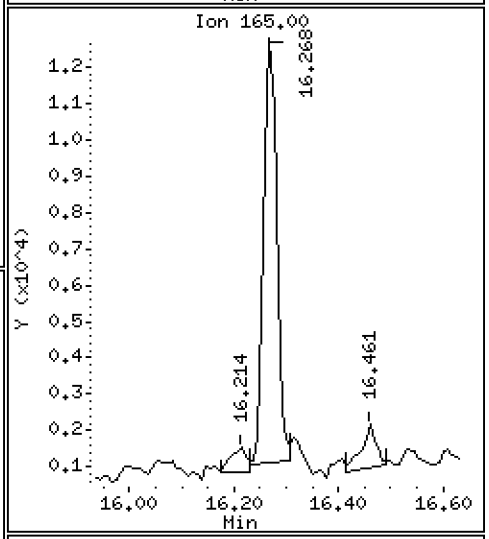


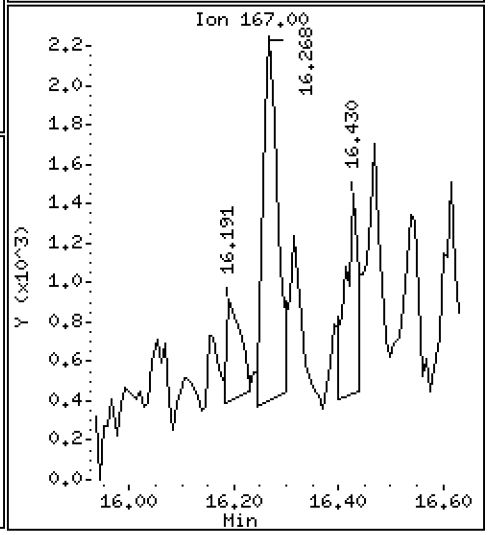












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Date : 22-MAR-2023 00:52

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-04

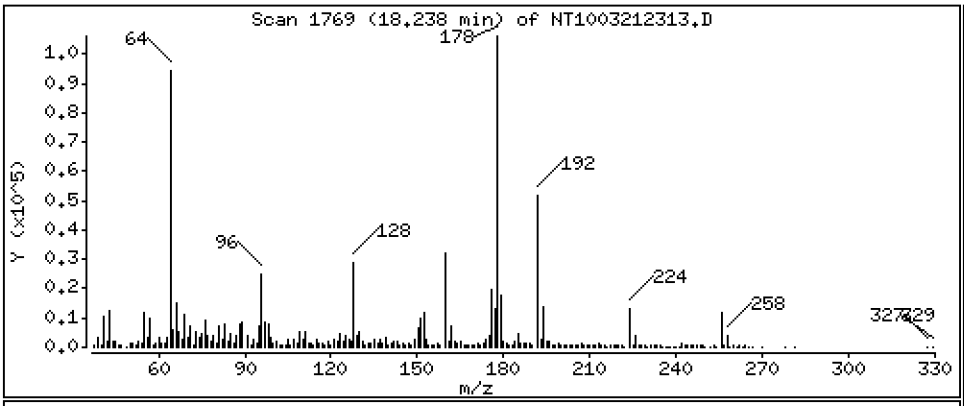
Operator: VTS

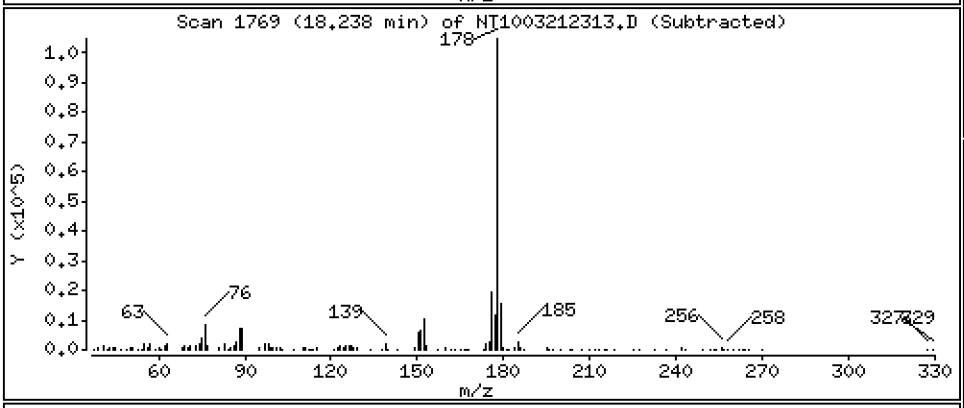
Column phase: ZB-5msi

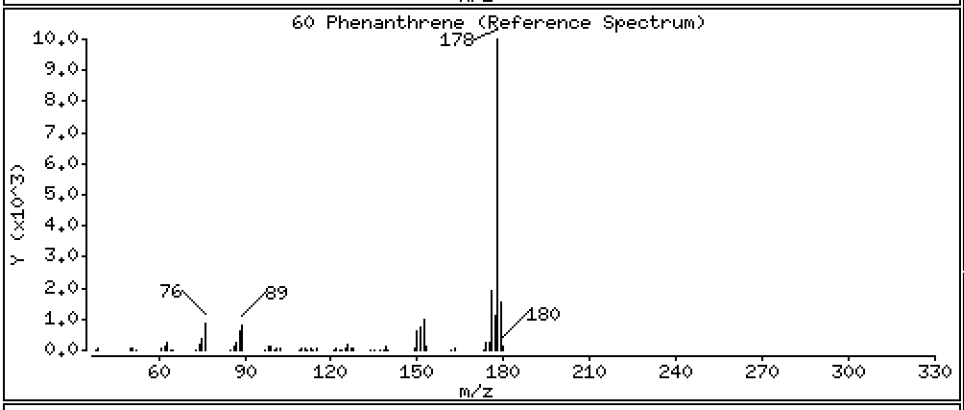
Column diameter: 0.25

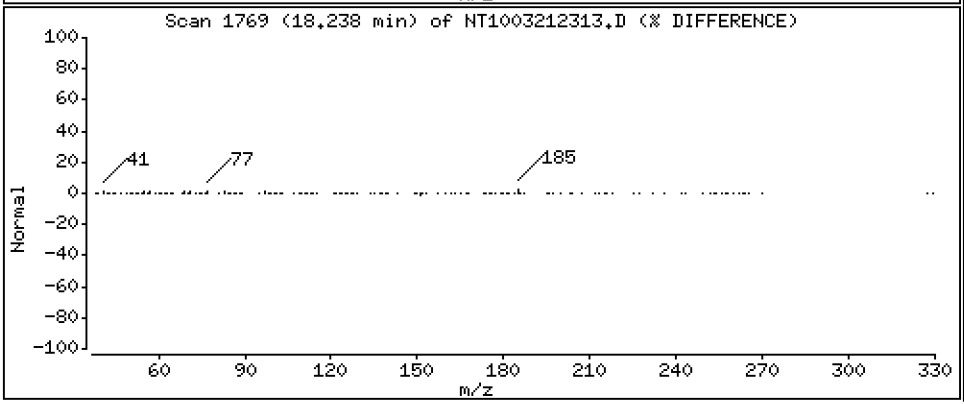
60 Phenanthrene

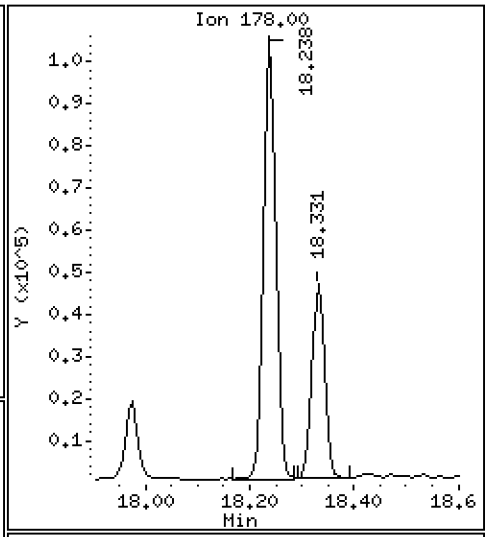
Concentration: 0.8215 ug/mL

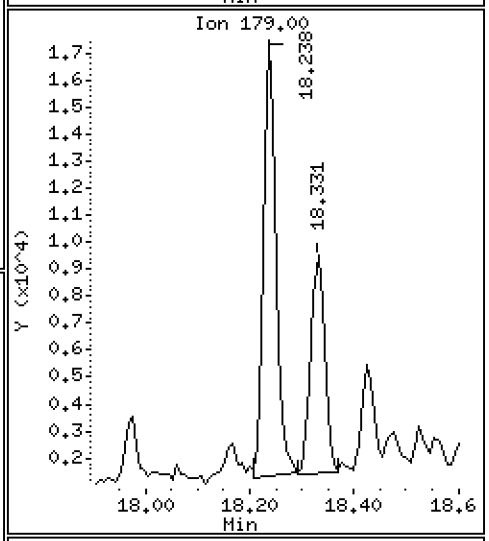


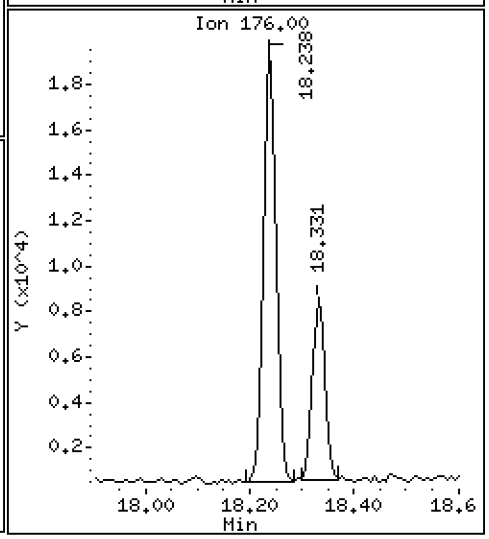












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Date : 22-MAR-2023 00:52

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-04

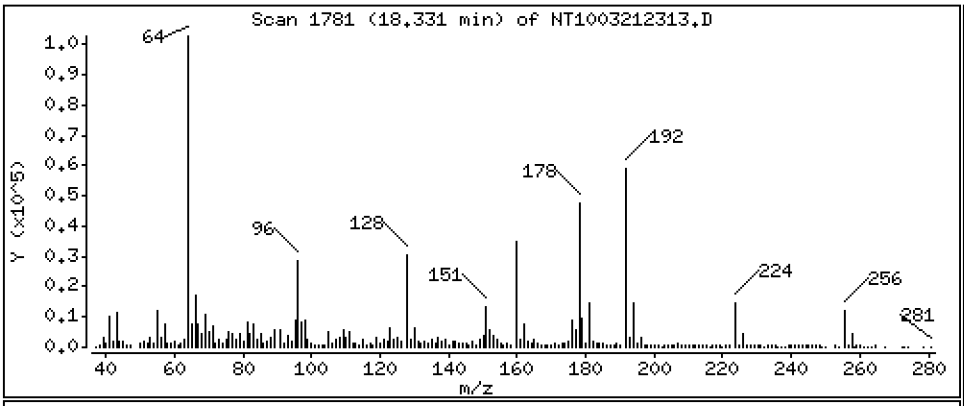
Operator: VTS

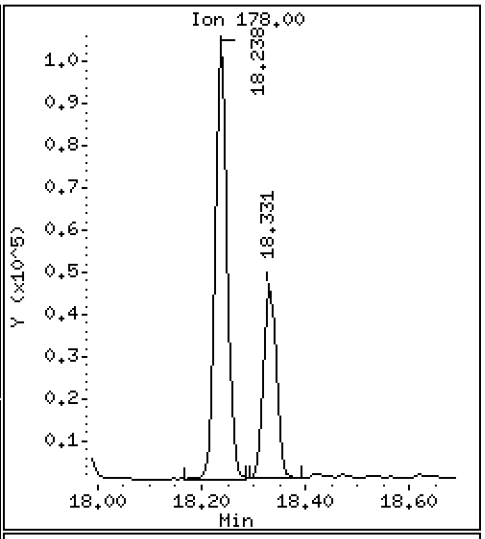
Column phase: ZB-5msi

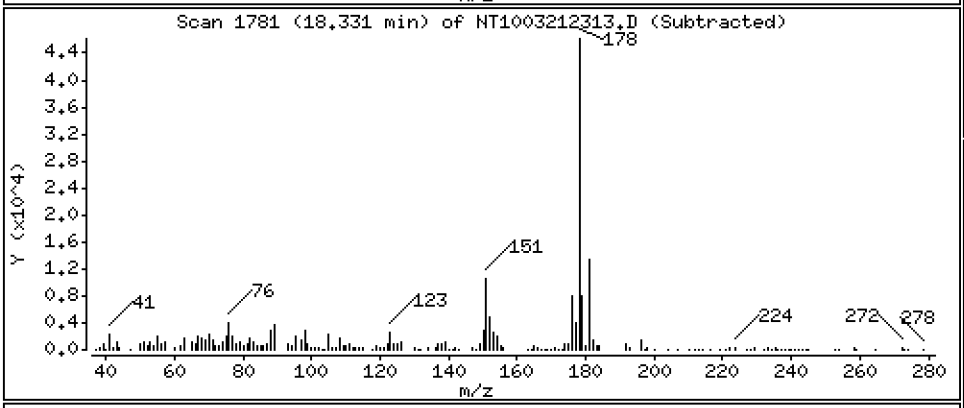
Column diameter: 0.25

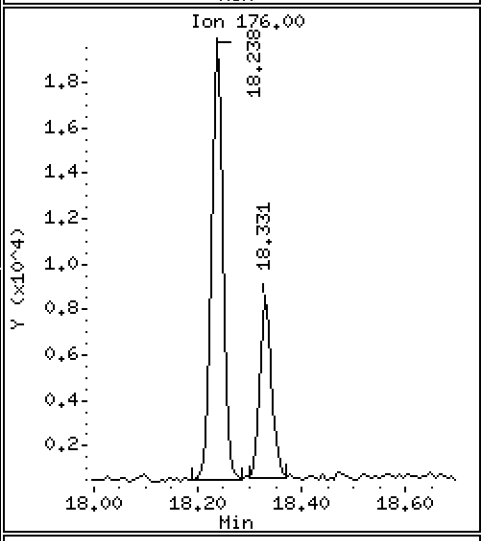
61 Anthracene

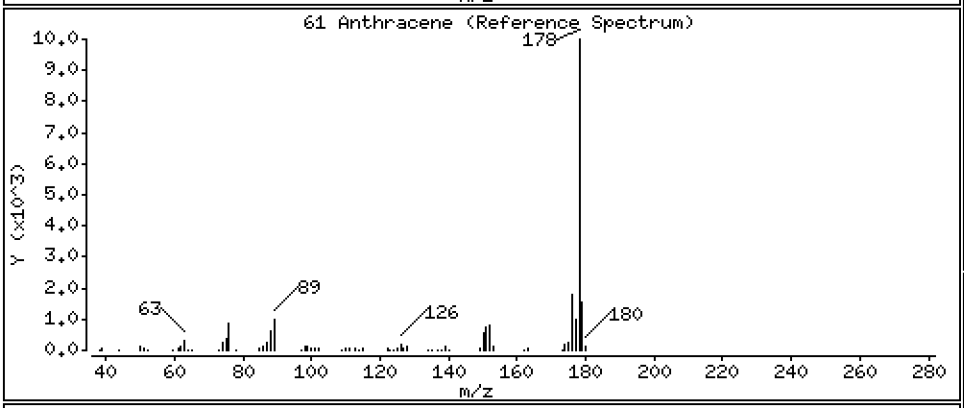
Concentration: 0.3805 ug/mL

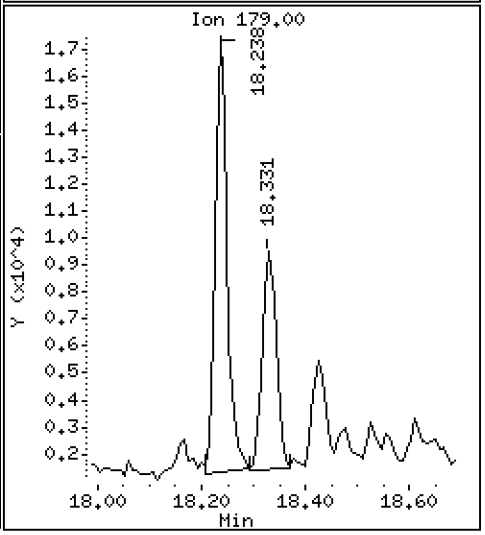


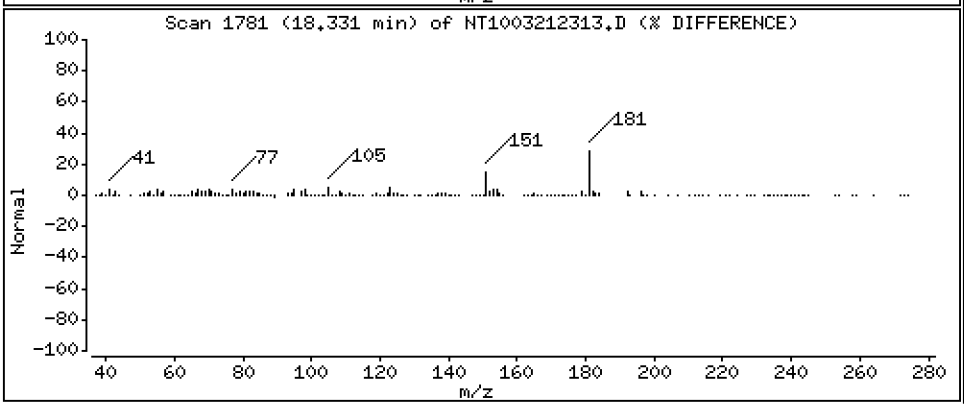












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212313.D

Date : 22-MAR-2023 00:52

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-04

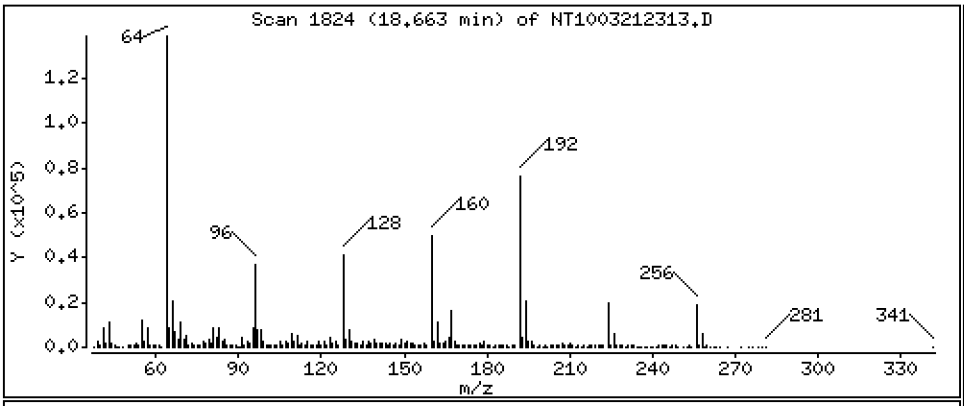
Operator: VTS

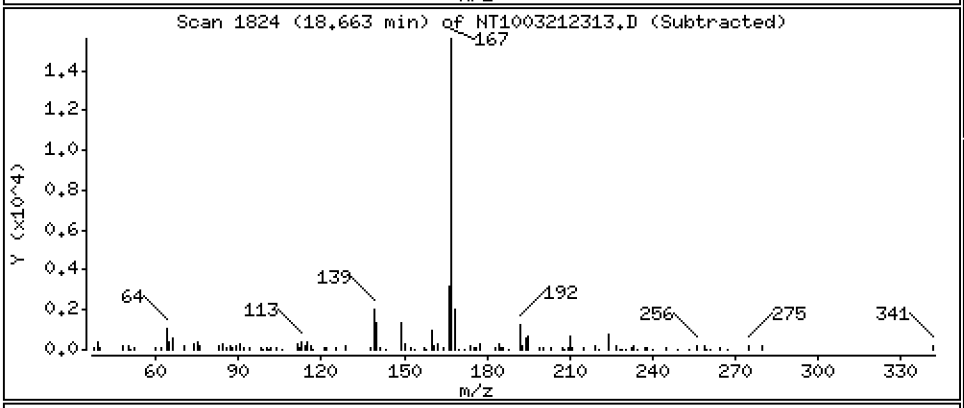
Column phase: ZB-5msi

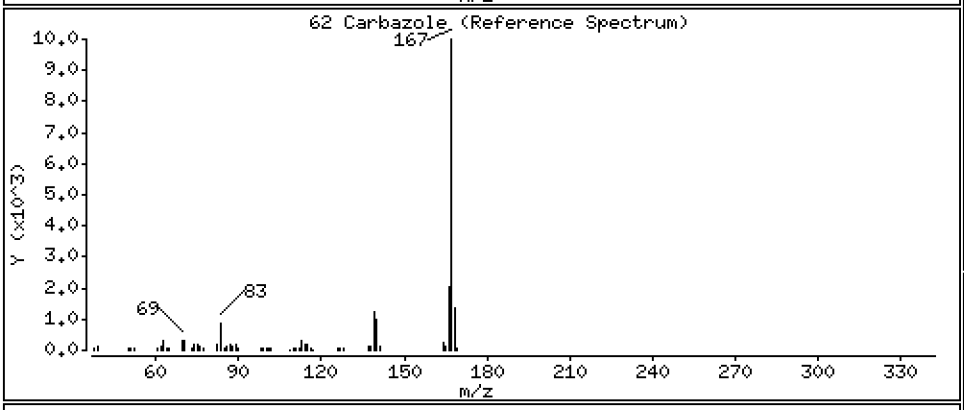
Column diameter: 0.25

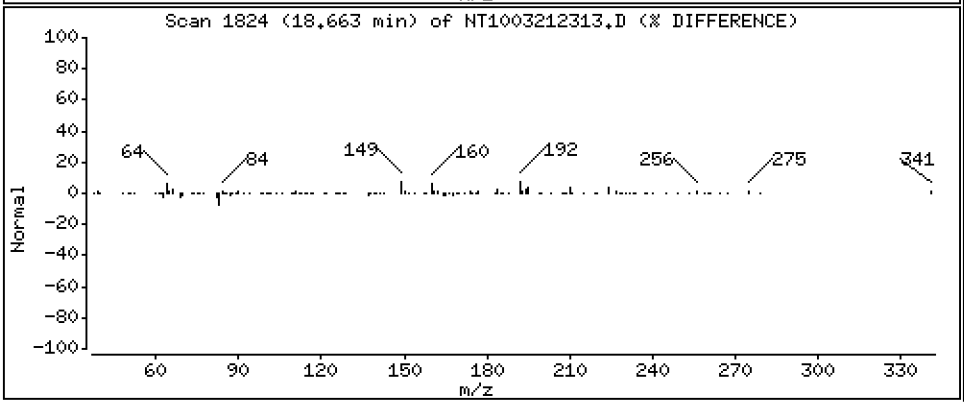
62 Carbazole

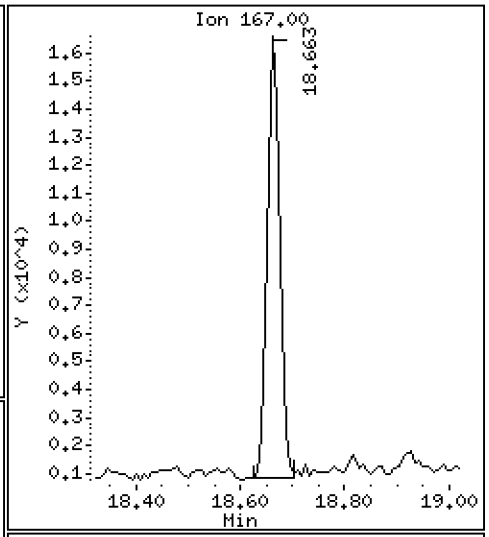
Concentration: 0.1457 ug/mL

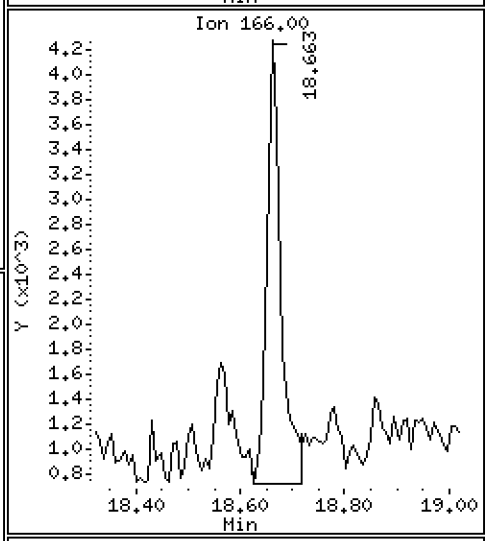


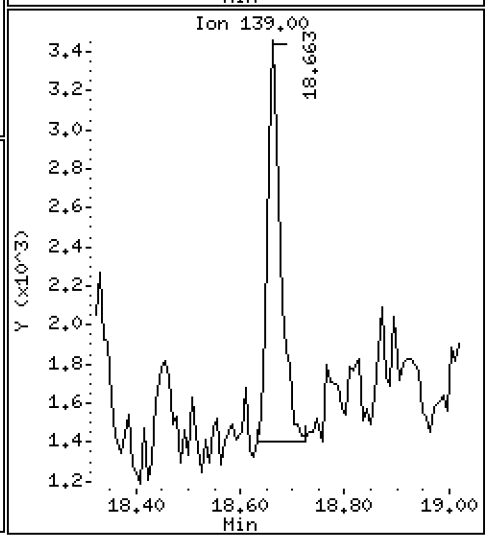












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Date : 22-MAR-2023 00:52

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-04

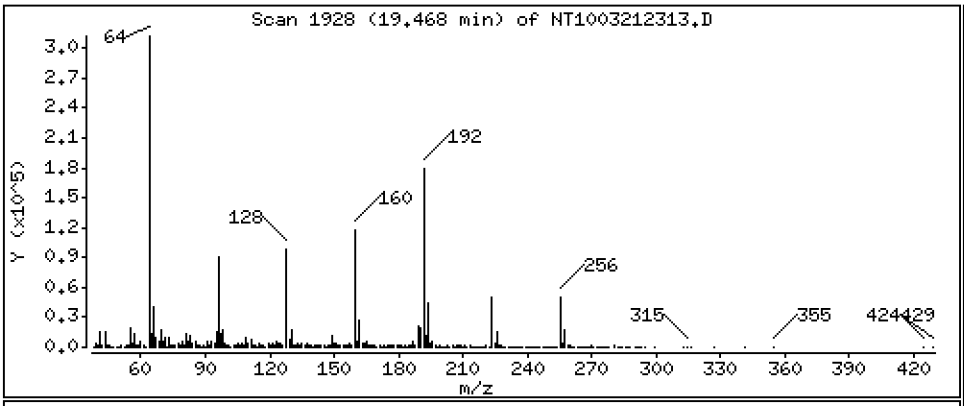
Operator: VTS

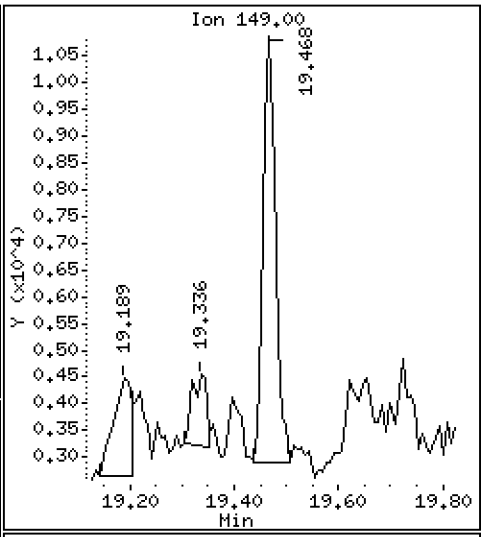
Column phase: ZB-5msi

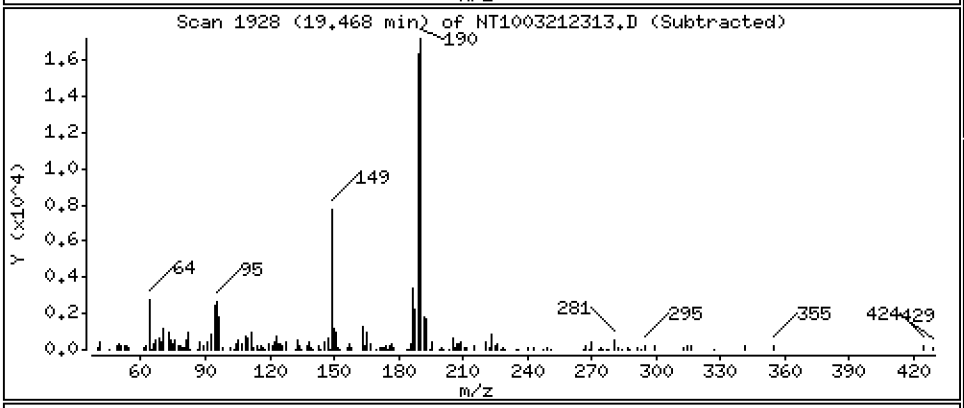
Column diameter: 0.25

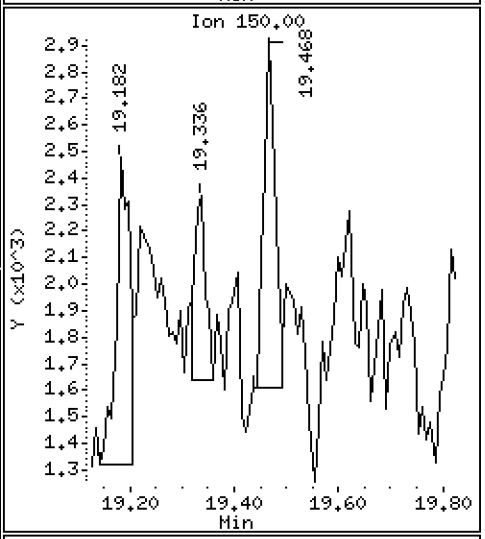
63 Di-n-butylphthalate

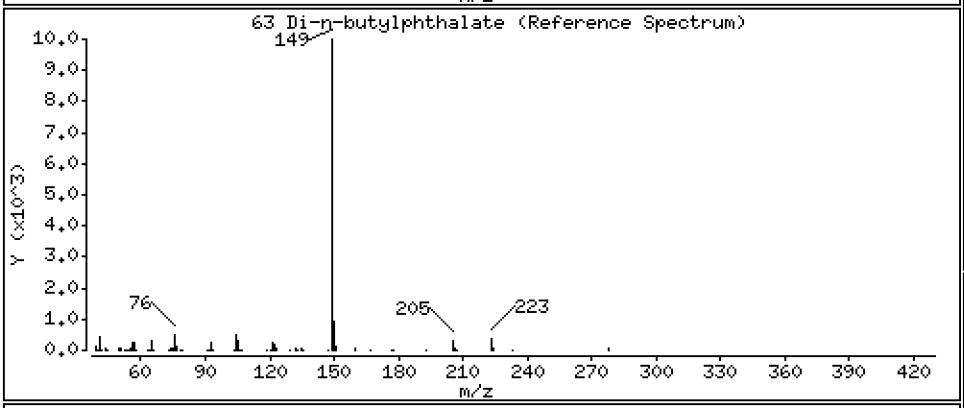
Concentration: 0.05269 ug/mL

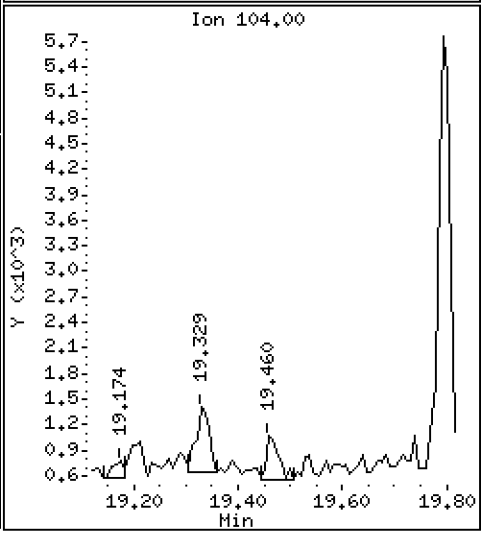


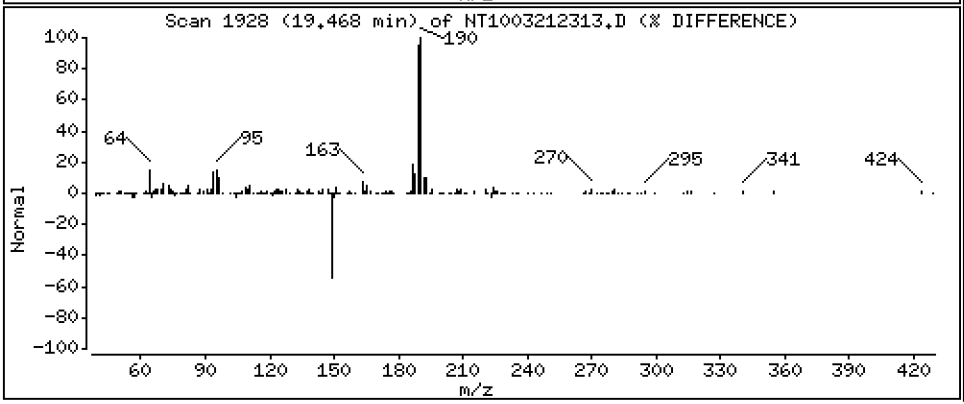












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Date : 22-MAR-2023 00:52

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-04

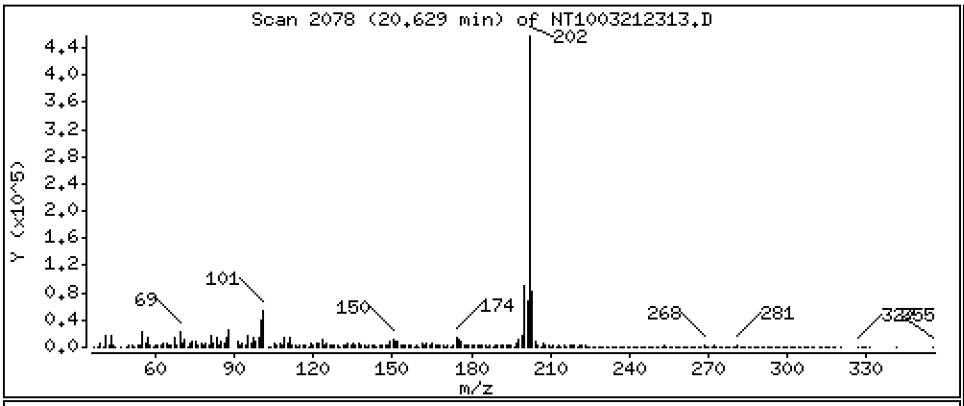
Operator: VTS

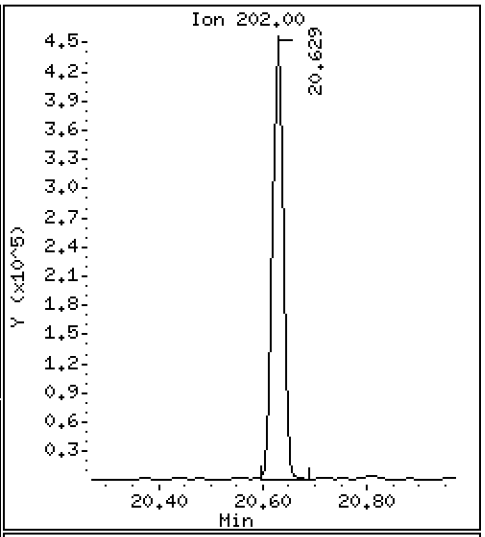
Column phase: ZB-5msi

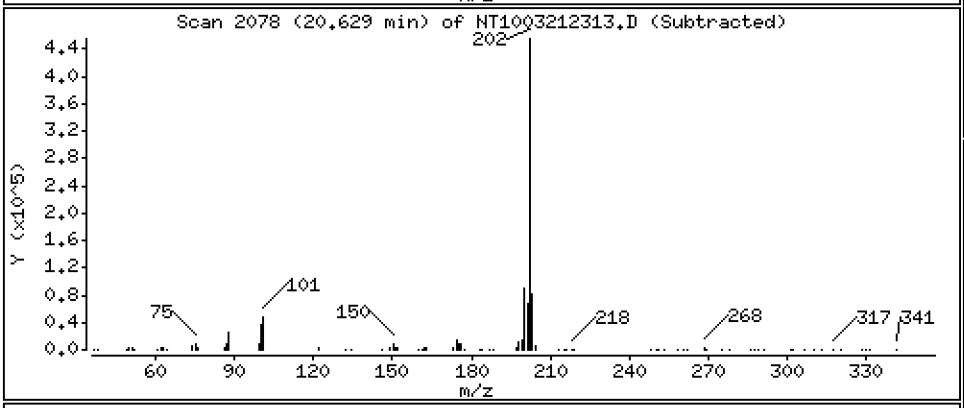
Column diameter: 0.25

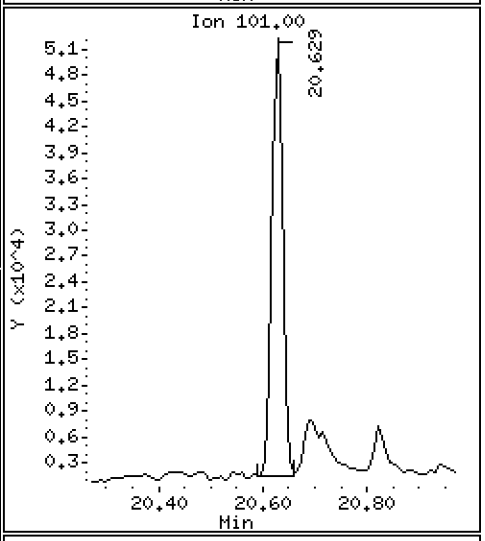
64 Fluoranthene

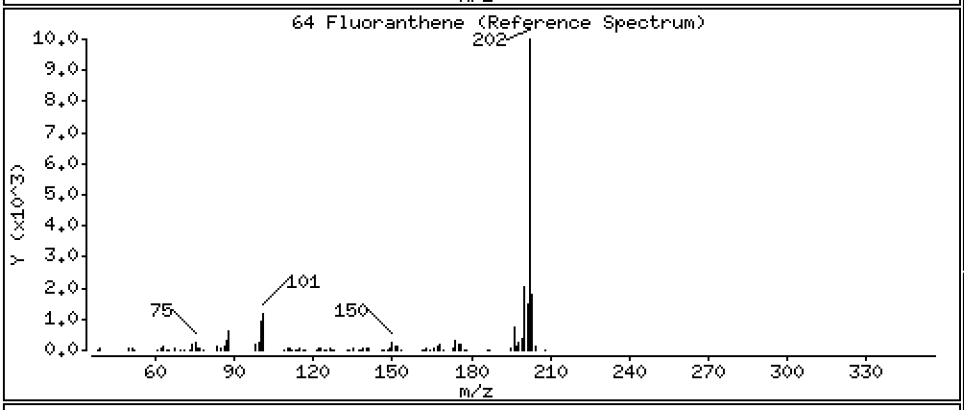
Concentration: 2.201 ug/mL

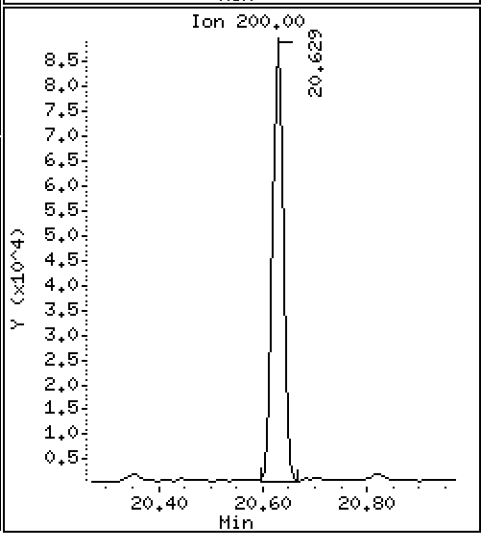


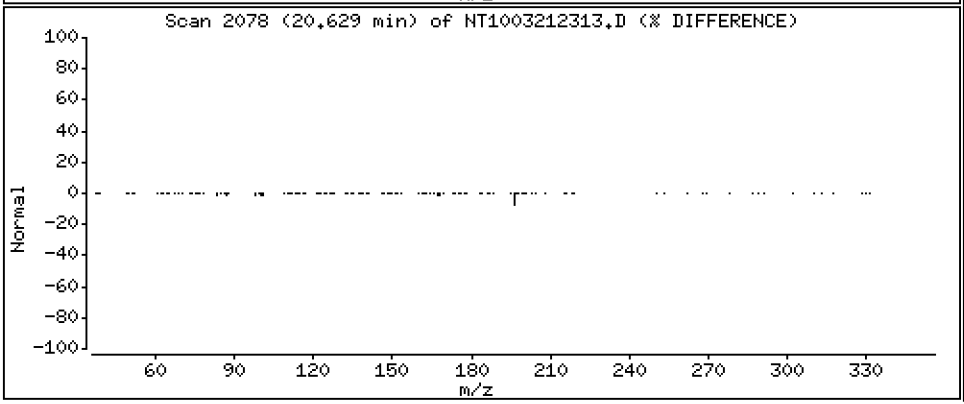












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Date : 22-MAR-2023 00:52

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-04

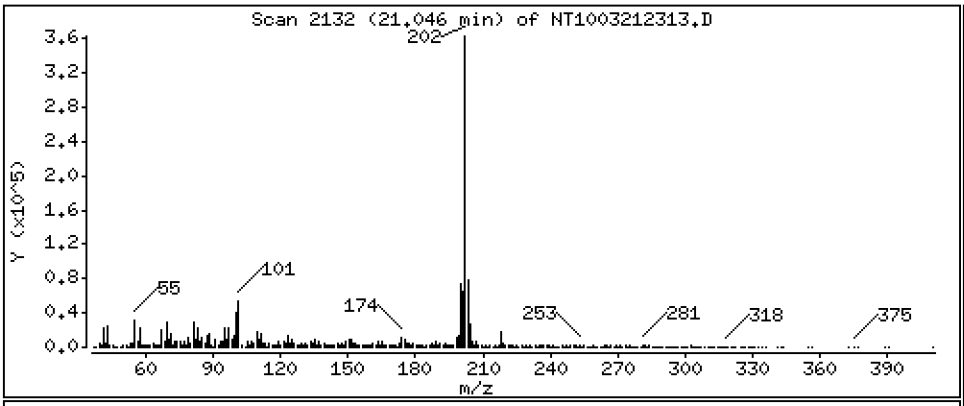
Operator: VTS

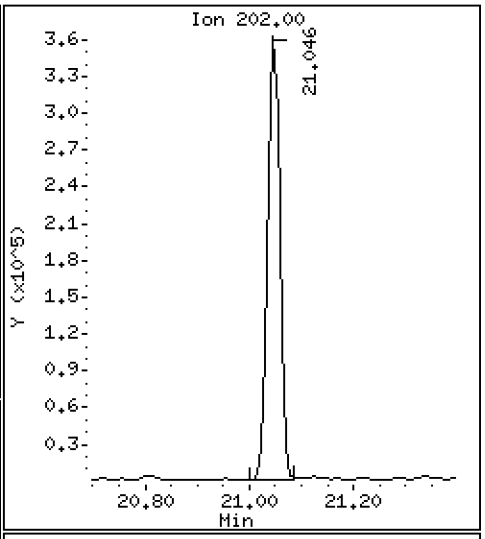
Column phase: ZB-5msi

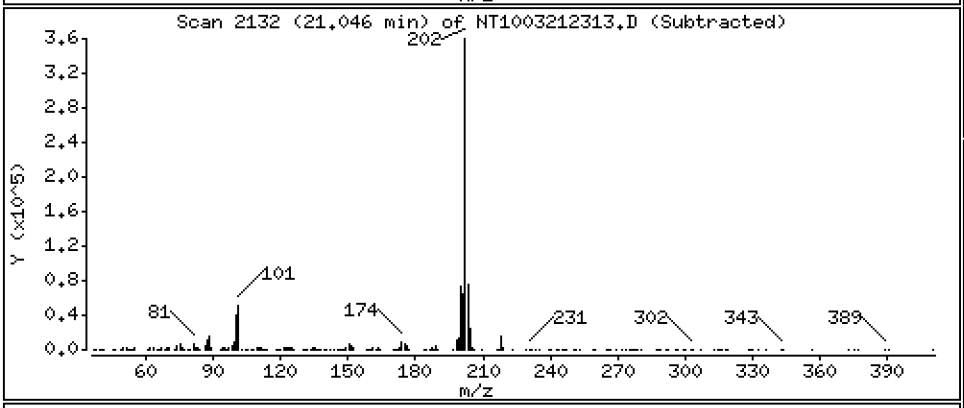
Column diameter: 0.25

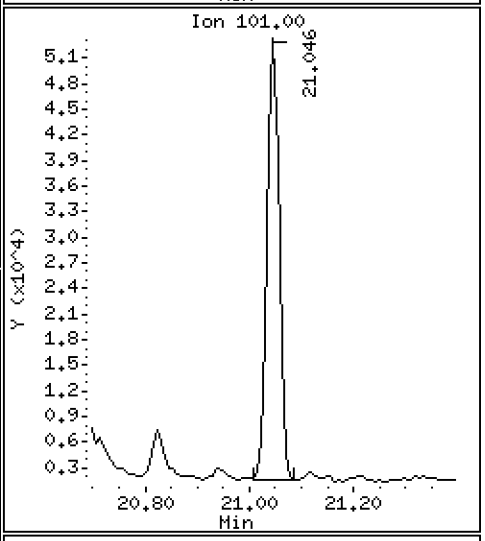
65 Pyrene

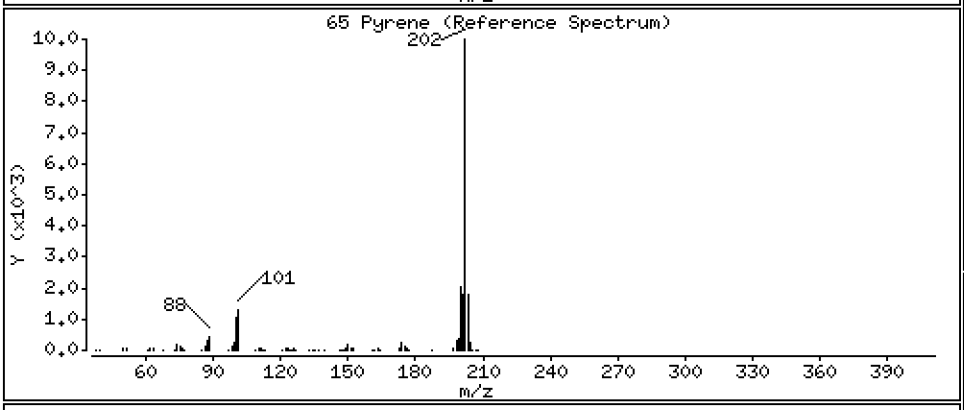
Concentration: 1.968 ug/mL

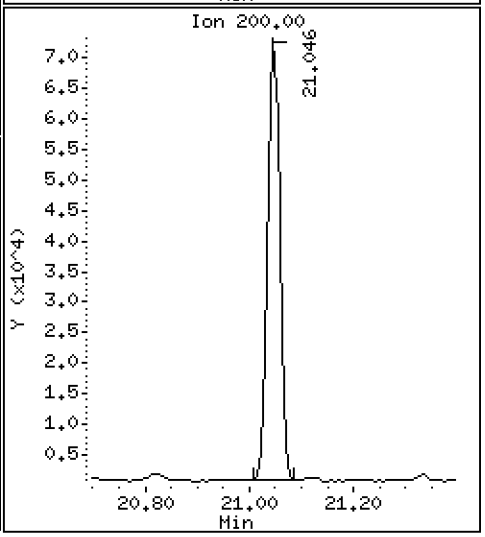


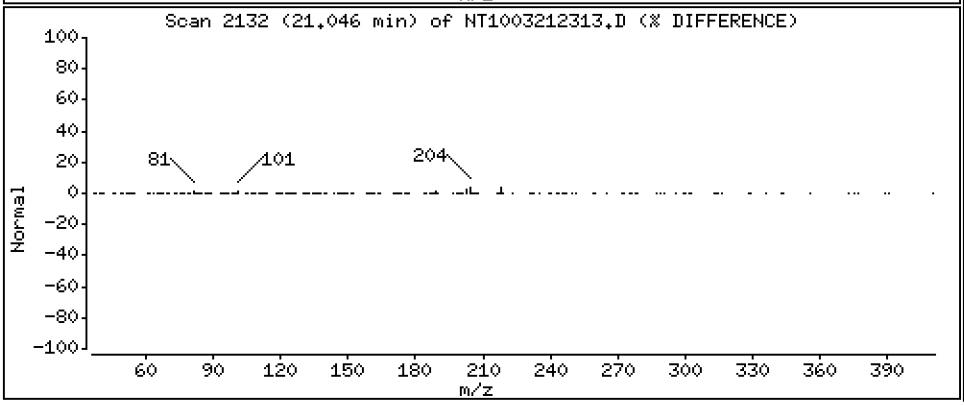












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Date : 22-MAR-2023 00:52

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-04

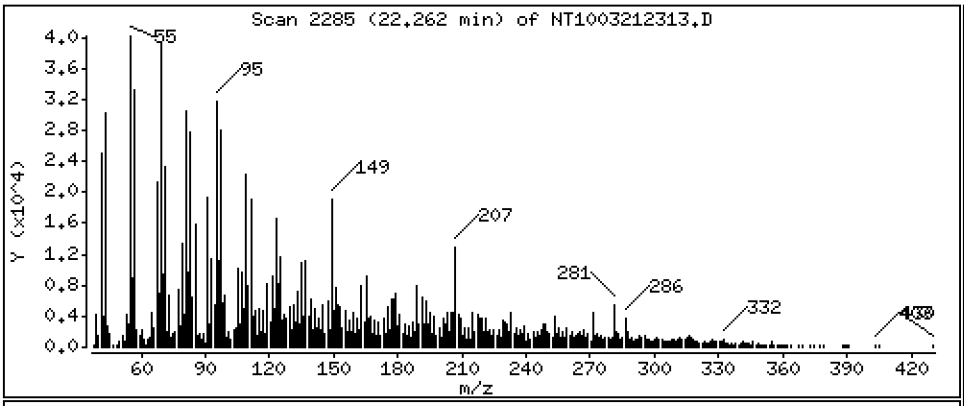
Operator: VTS

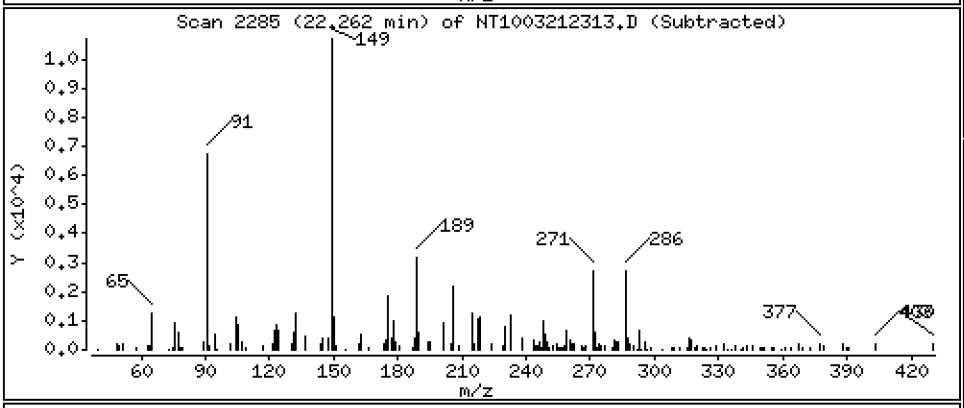
Column phase: ZB-5msi

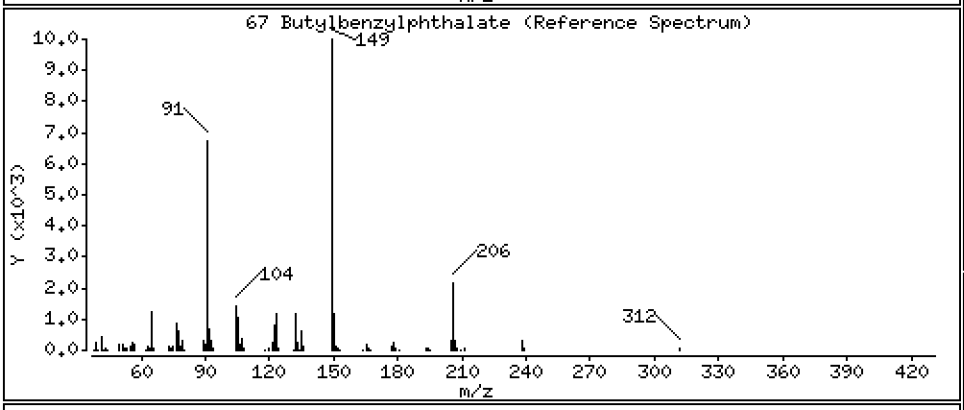
Column diameter: 0.25

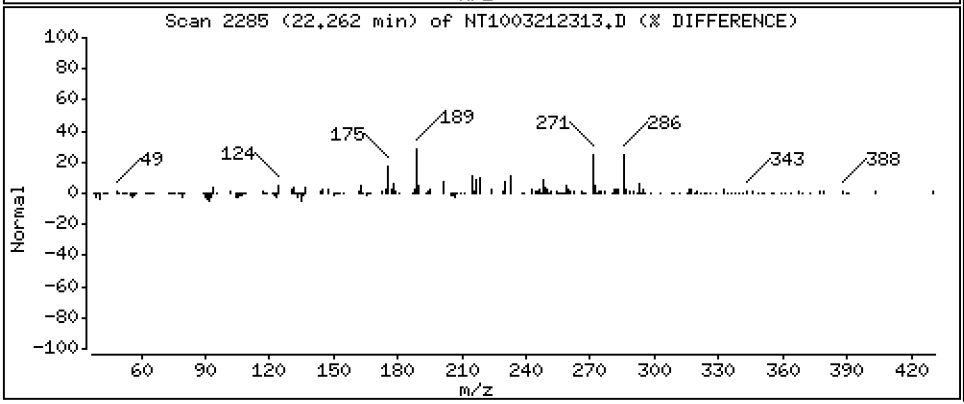
67 Butylbenzylphthalate

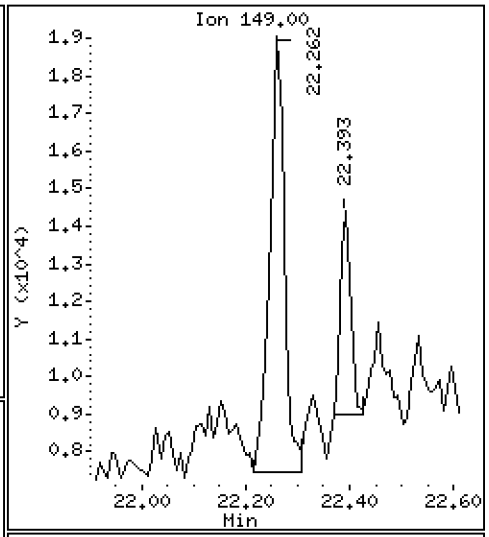
Concentration: 0.2223 ug/mL

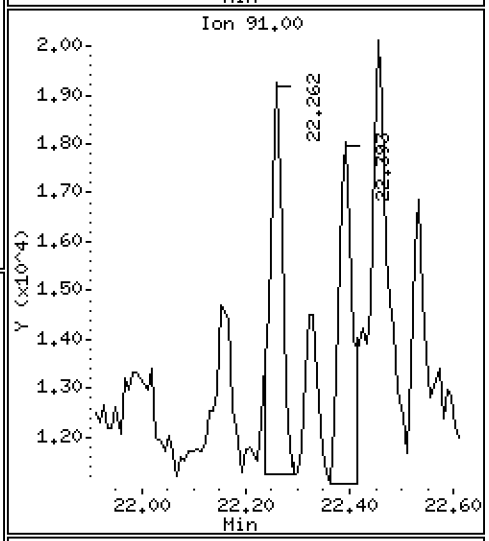


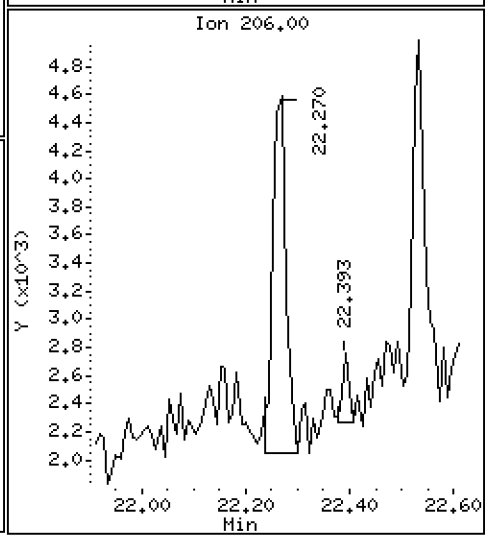












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Date : 22-MAR-2023 00:52

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-04

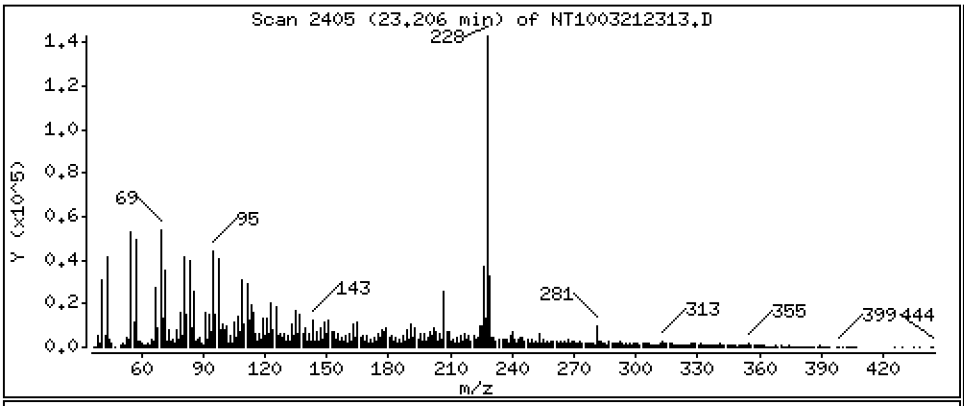
Operator: VTS

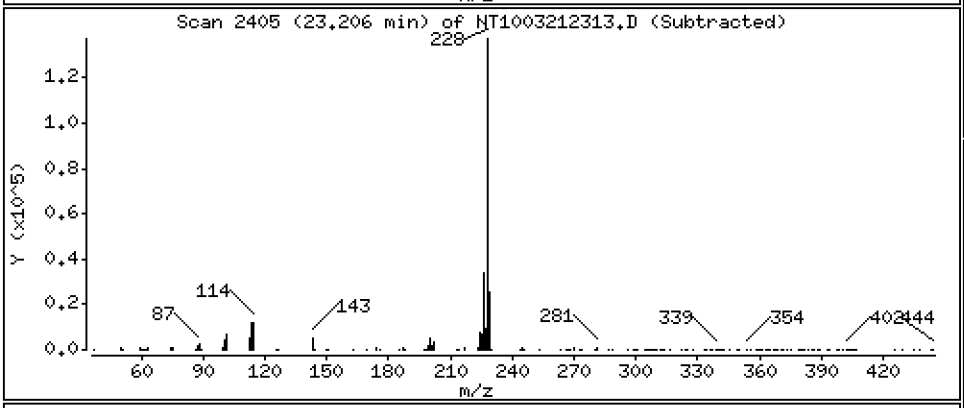
Column phase: ZB-5msi

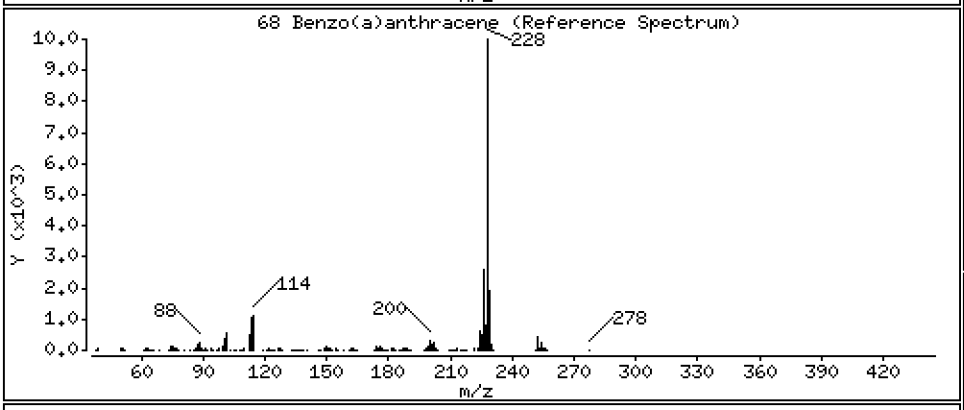
Column diameter: 0.25

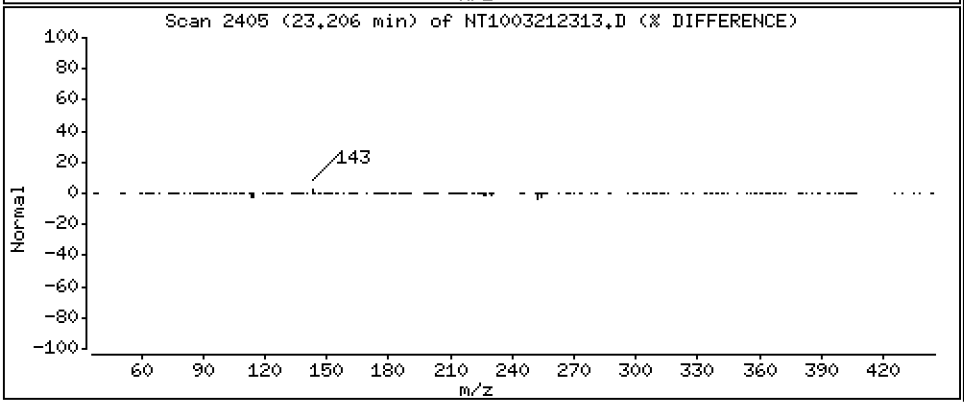
68 Benzo(a)anthracene

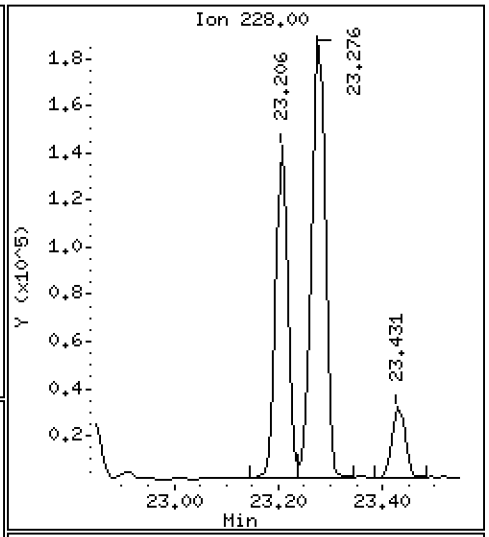
Concentration: 0.9147 ug/mL

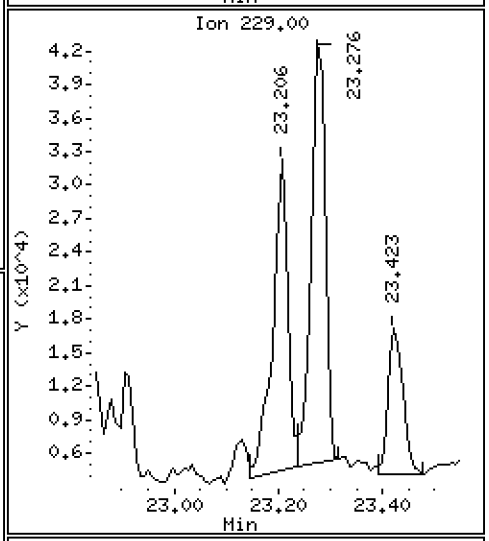


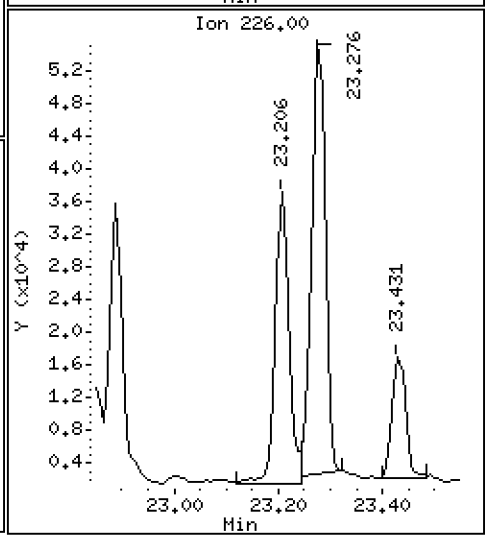












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Date : 22-MAR-2023 00:52

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-04

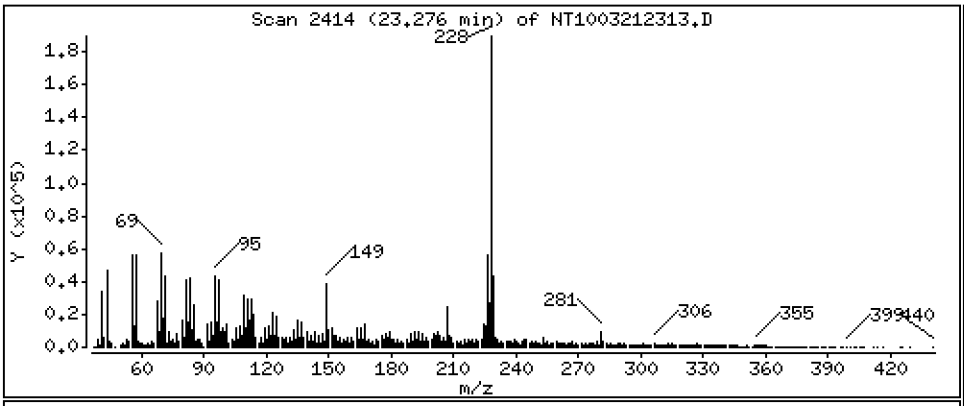
Operator: VTS

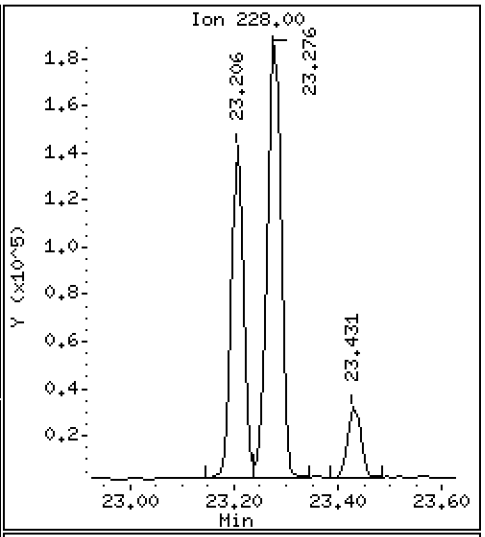
Column phase: ZB-5msi

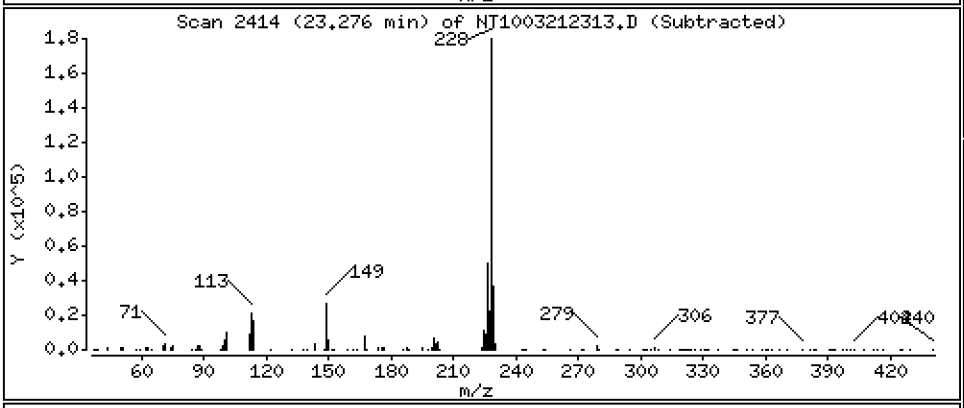
Column diameter: 0.25

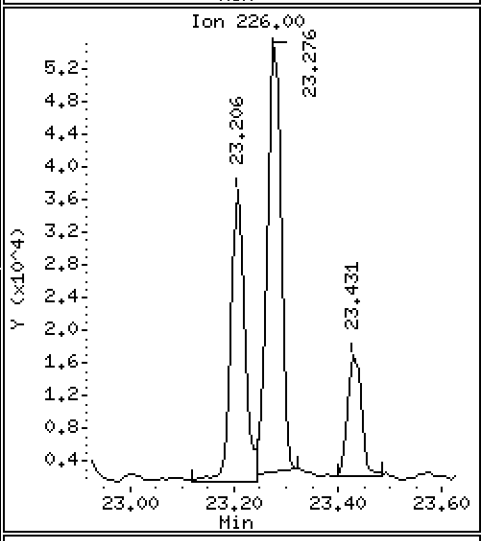
71 Chrysene

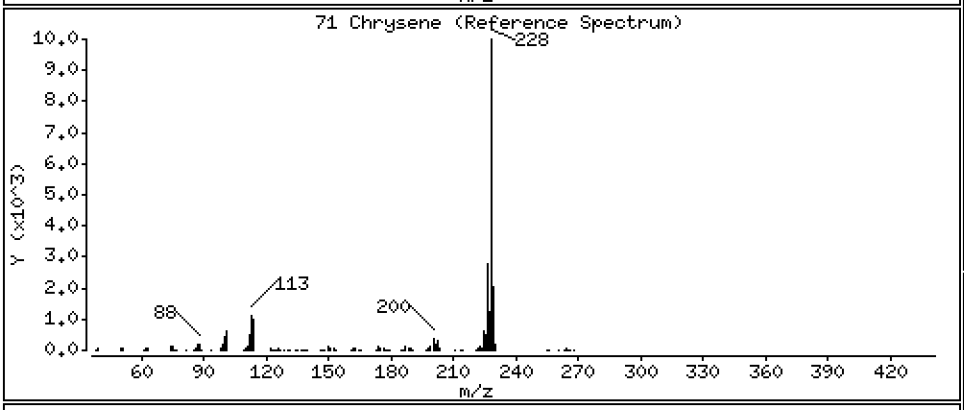
Concentration: 1.396 ug/mL

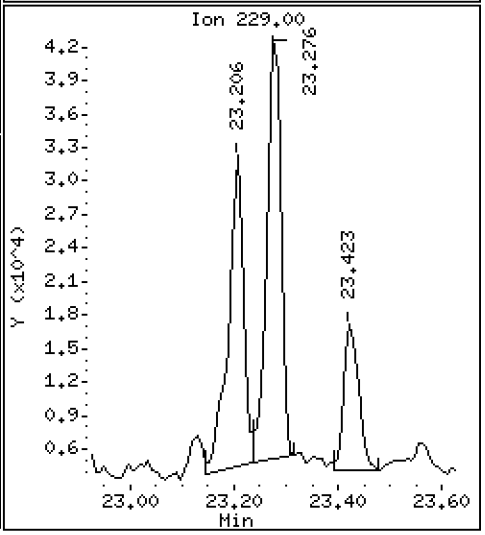


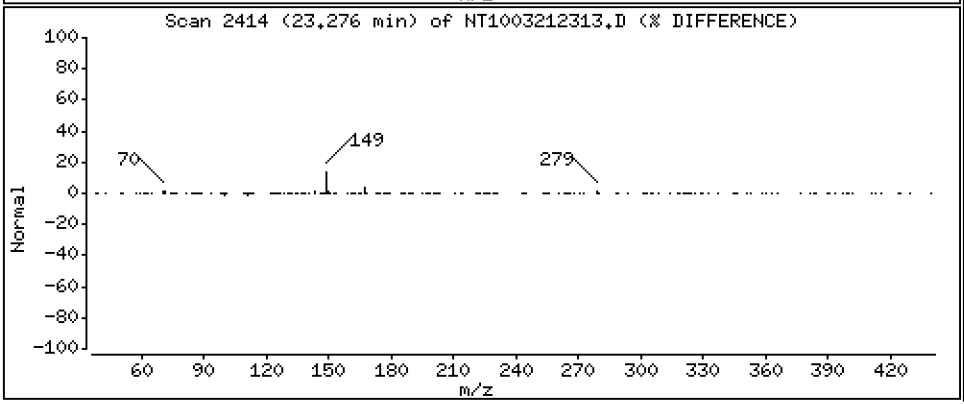












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212313.D

Date : 22-MAR-2023 00:52

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-04

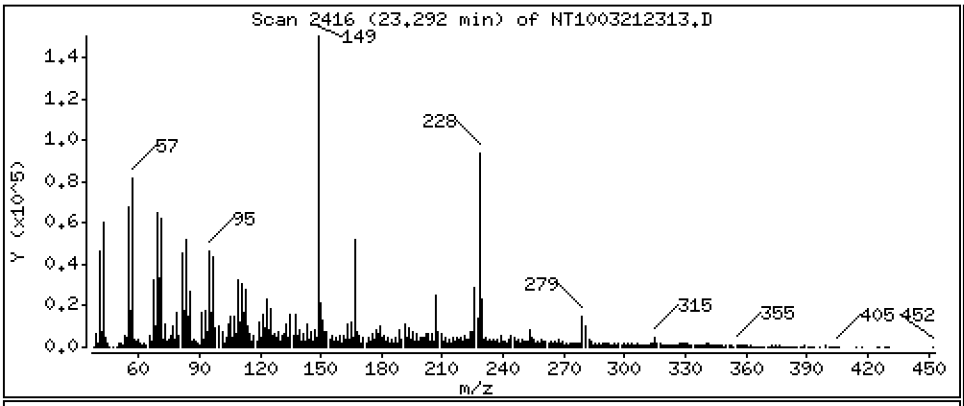
Operator: VTS

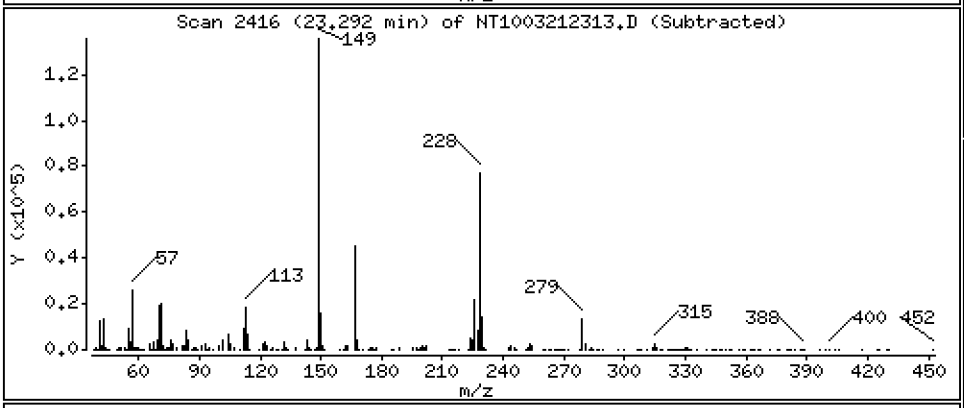
Column phase: ZB-5msi

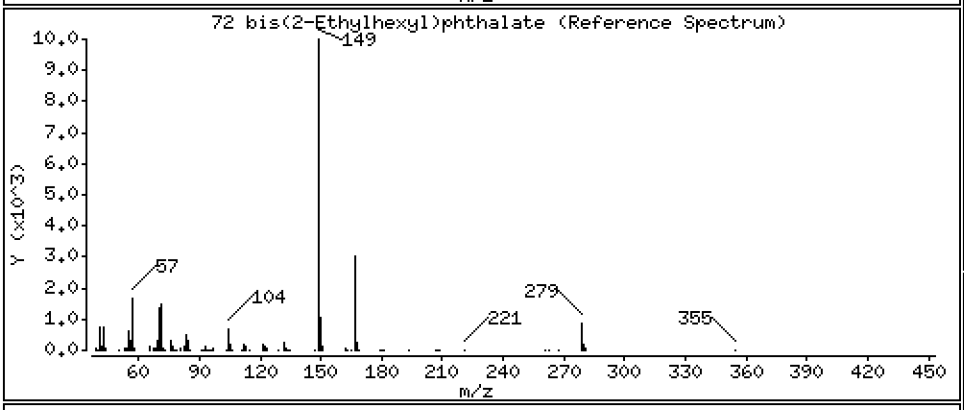
Column diameter: 0.25

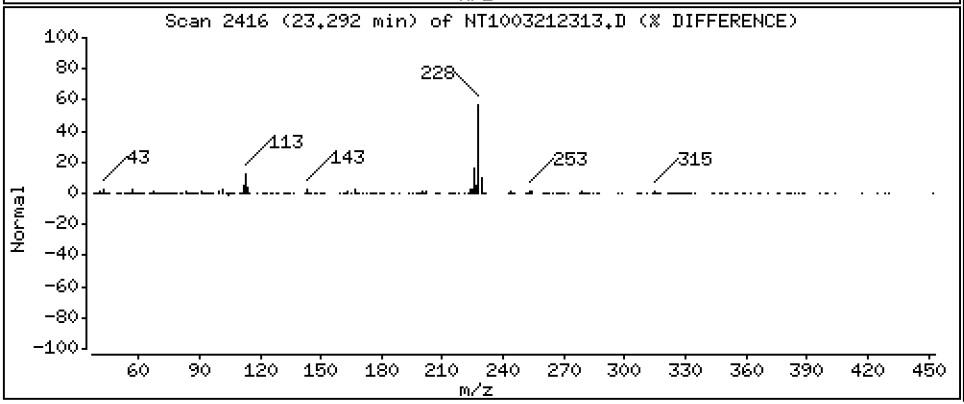
72 bis(2-Ethylhexyl)phthalate

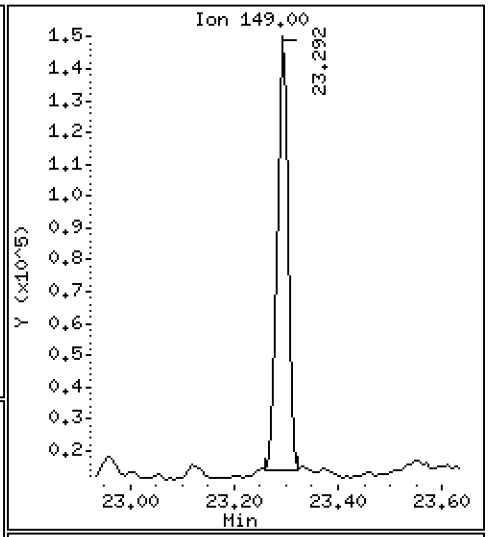
Concentration: 1.159 ug/mL

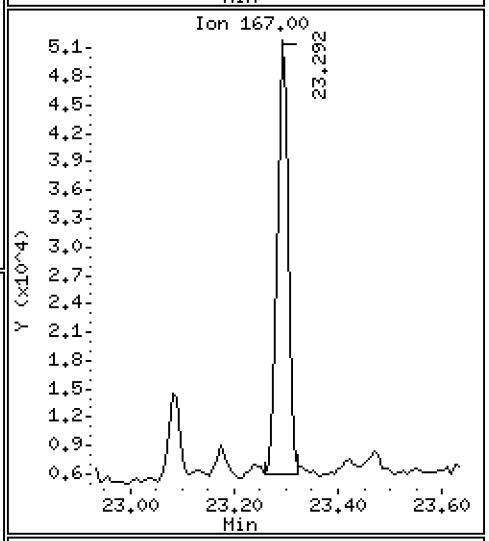


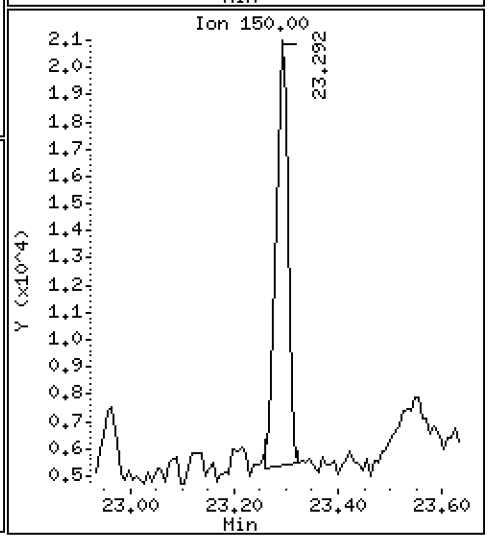












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Date : 22-MAR-2023 00:52

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-04

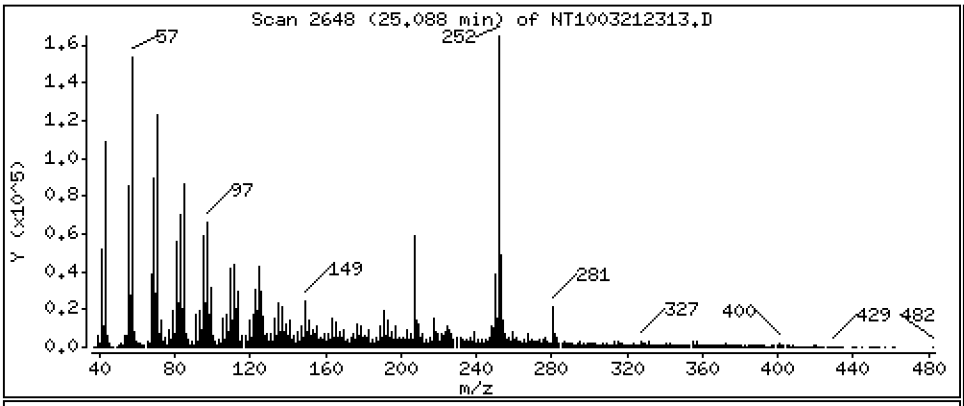
Operator: VTS

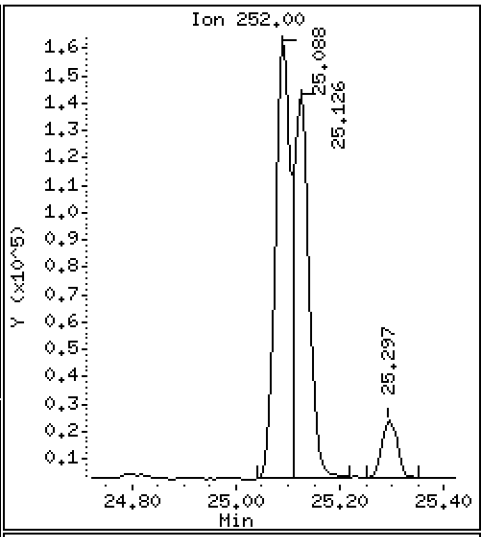
Column phase: ZB-5msi

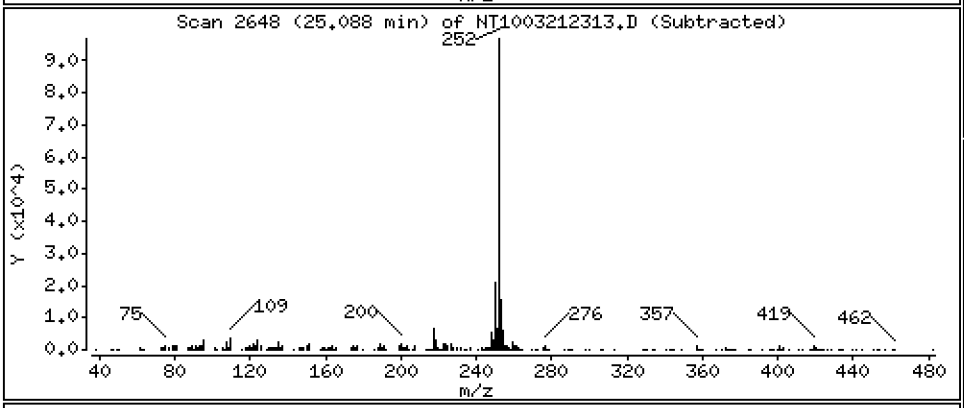
Column diameter: 0.25

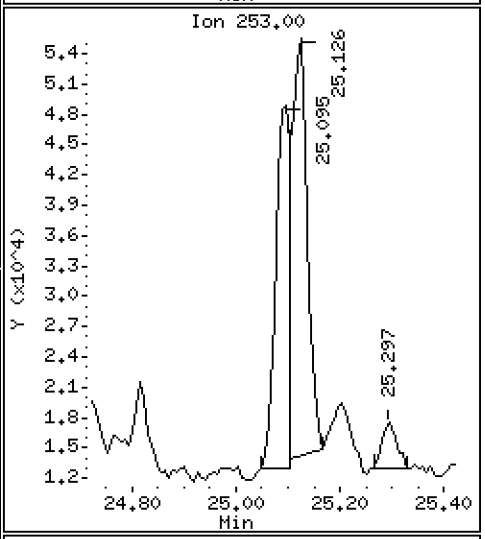
74 Benzo(b)fluoranthene

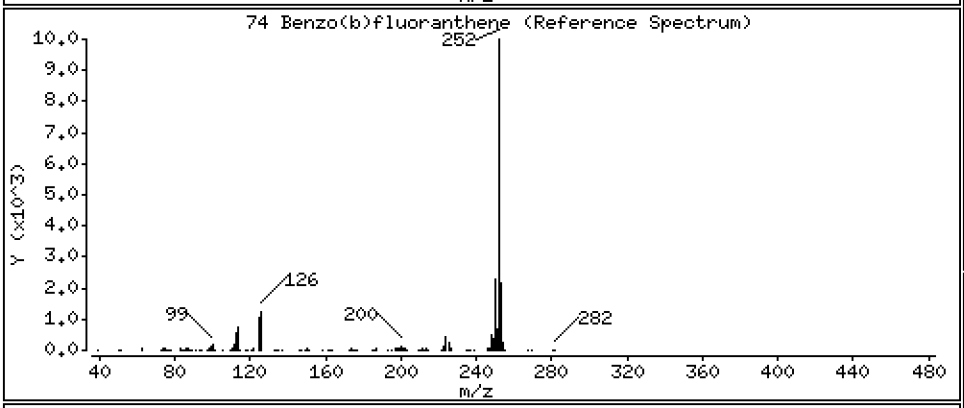
Concentration: 1.372 ug/mL

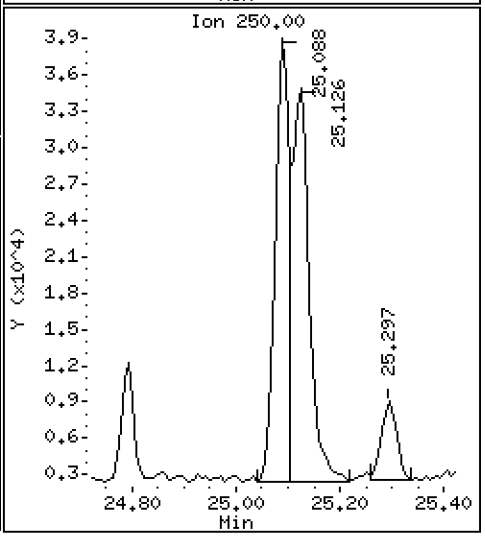


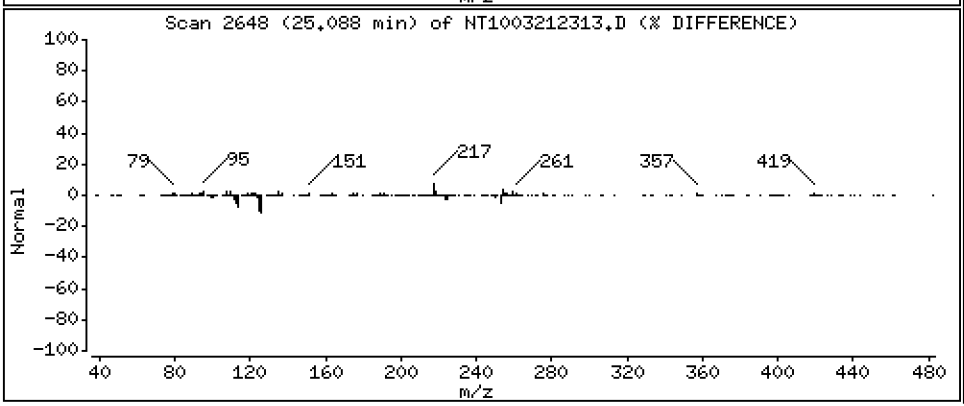












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Date : 22-MAR-2023 00:52

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-04

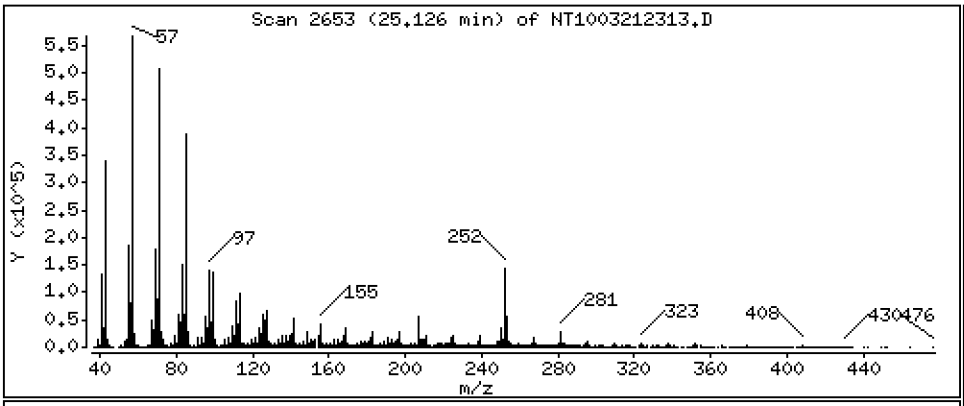
Operator: VTS

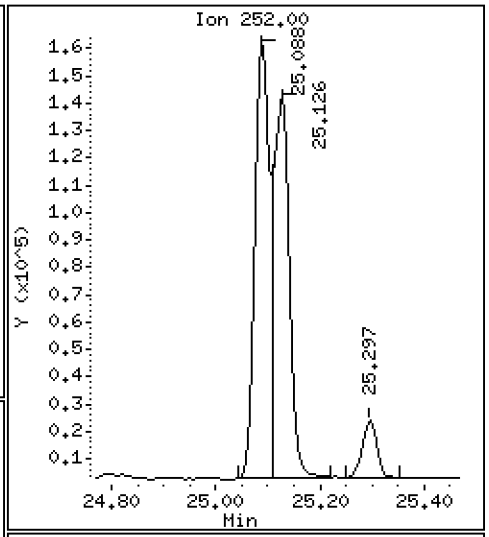
Column phase: ZB-5msi

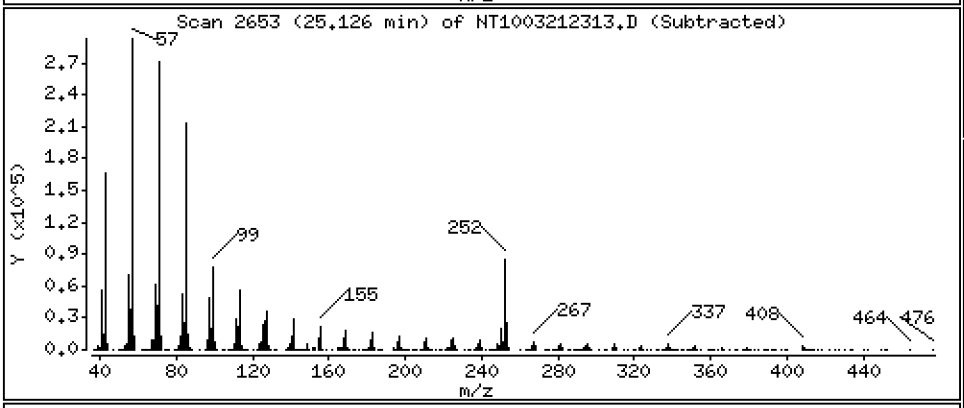
Column diameter: 0.25

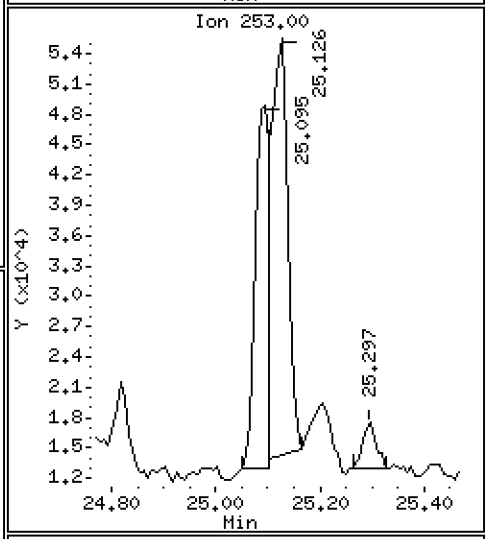
75 Benzo(k)fluoranthene

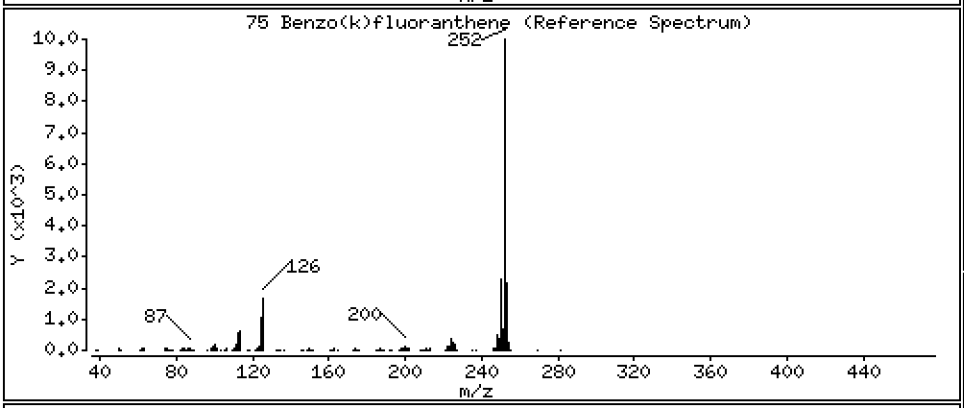
Concentration: 1.107 ug/mL

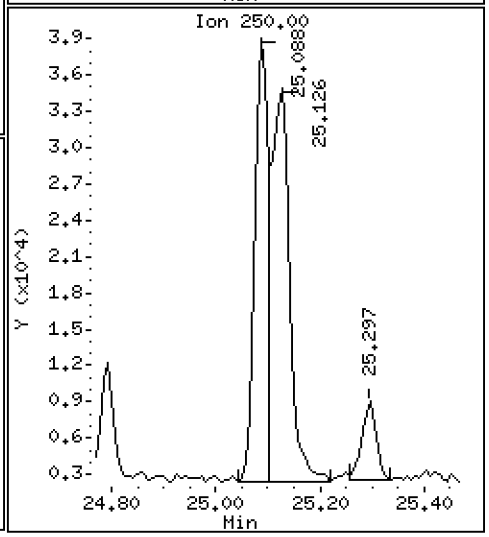


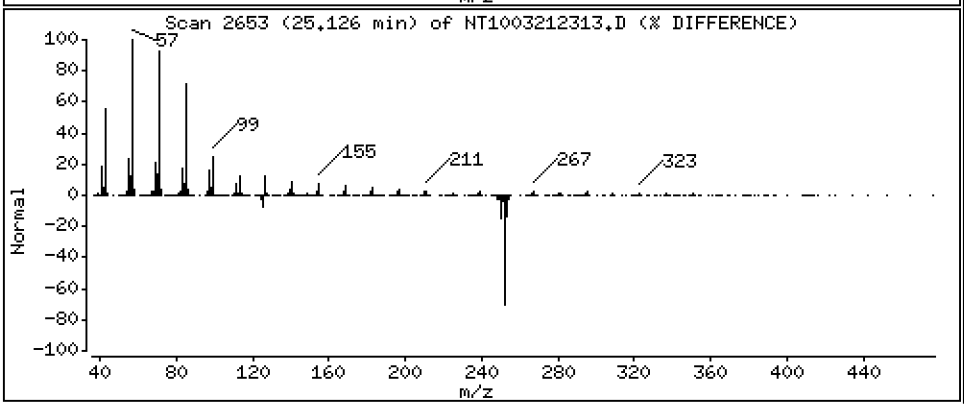












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Date : 22-MAR-2023 00:52

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-04

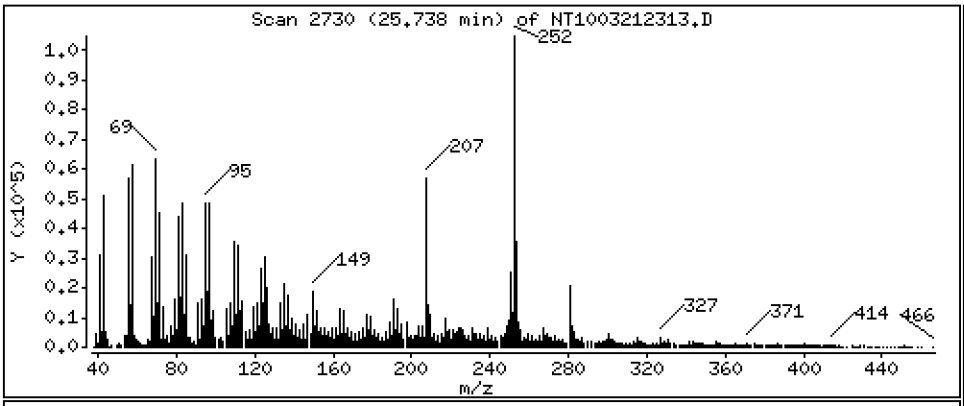
Operator: VTS

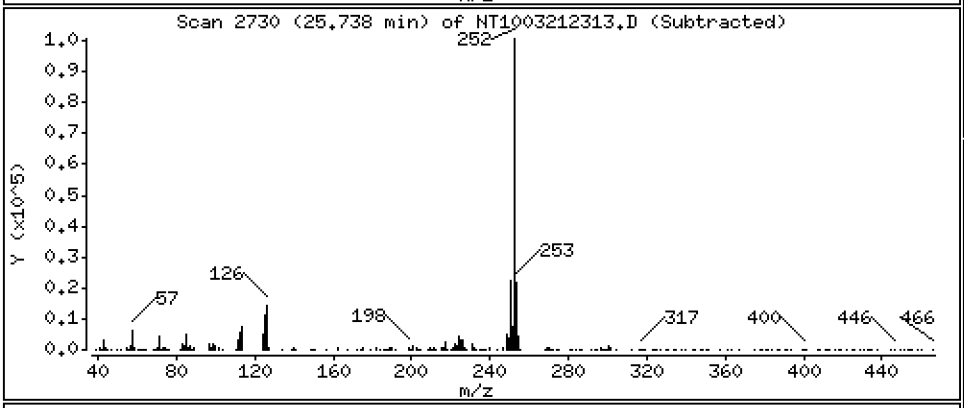
Column phase: ZB-5msi

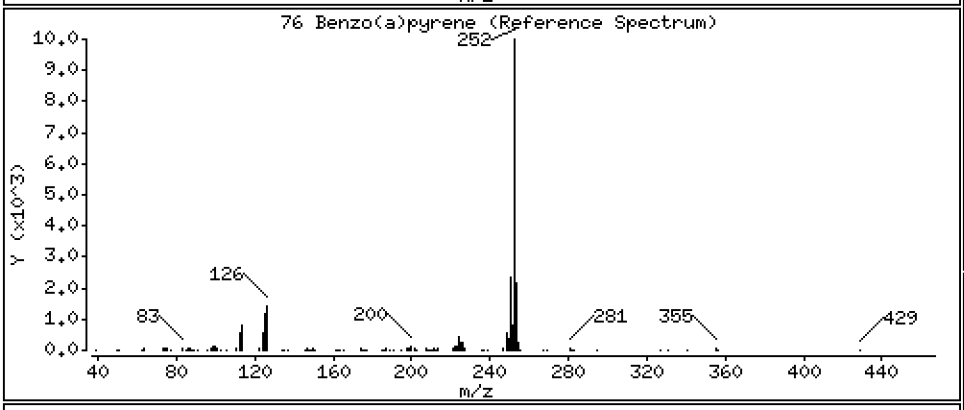
Column diameter: 0.25

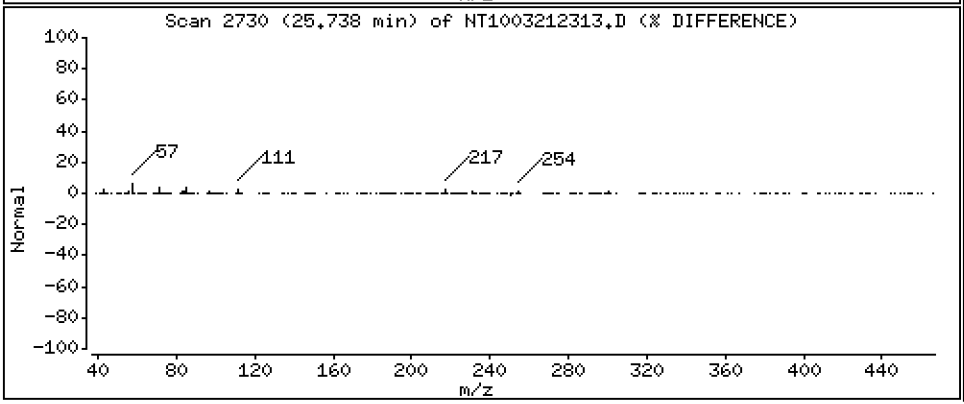
76 Benzo(a)pyrene

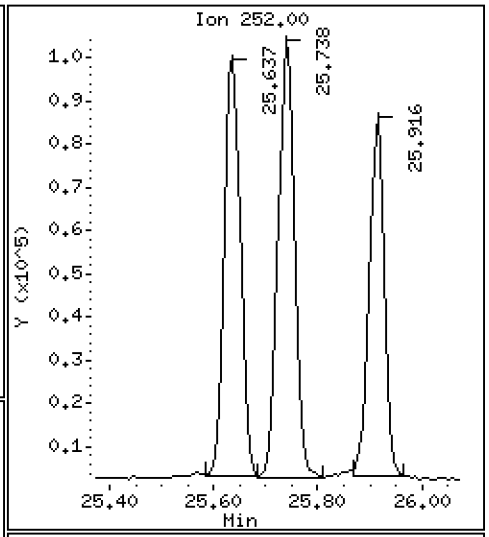
Concentration: 0.9475 ug/mL

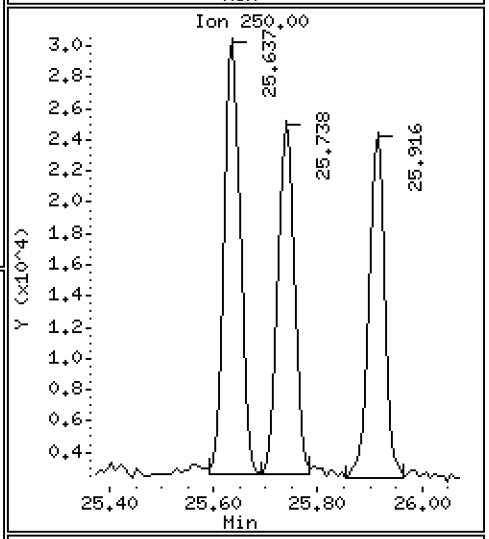


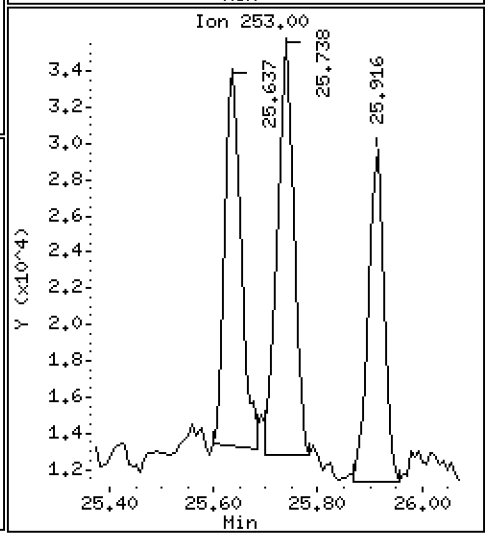












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Date : 22-MAR-2023 00:52

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-04

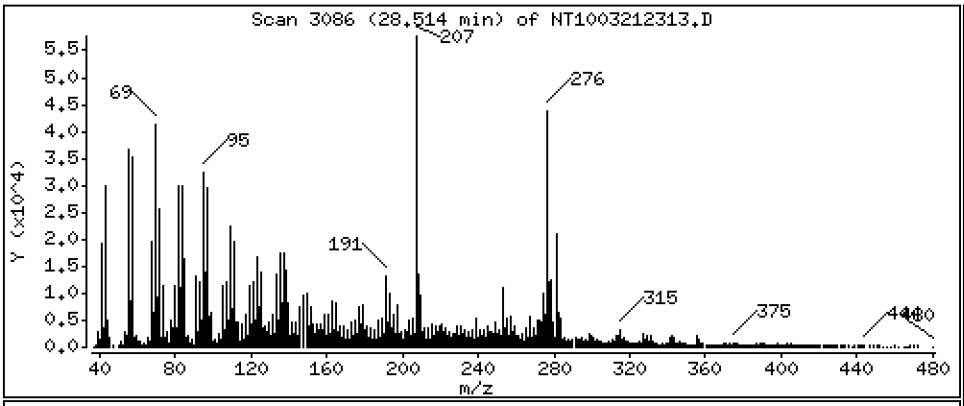
Operator: VTS

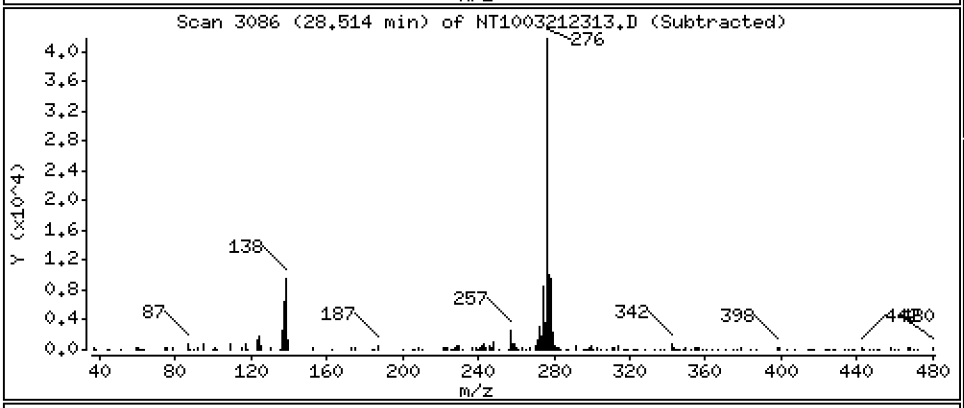
Column phase: ZB-5msi

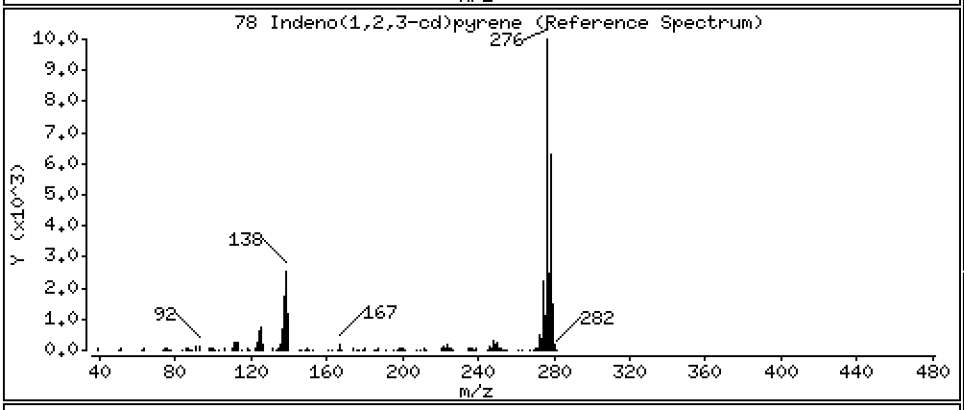
Column diameter: 0.25

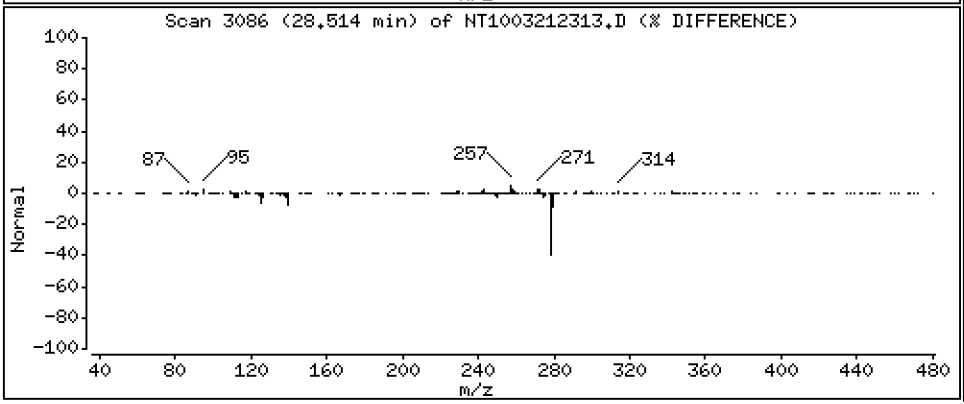
78 Indeno(1,2,3-cd)pyrene

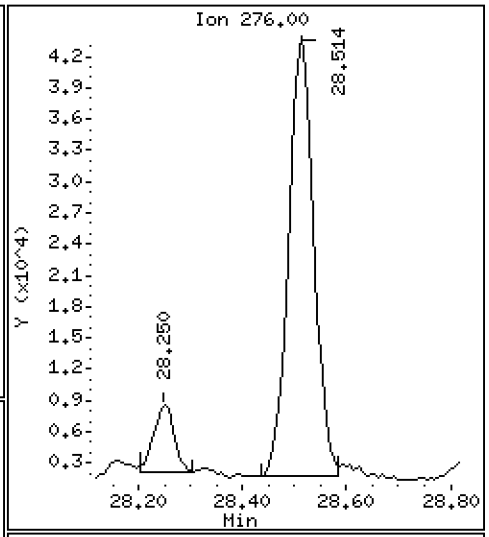
Concentration: 0.4933 ug/mL

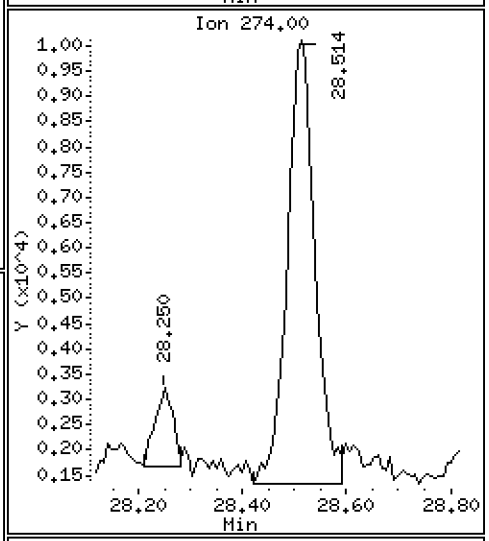


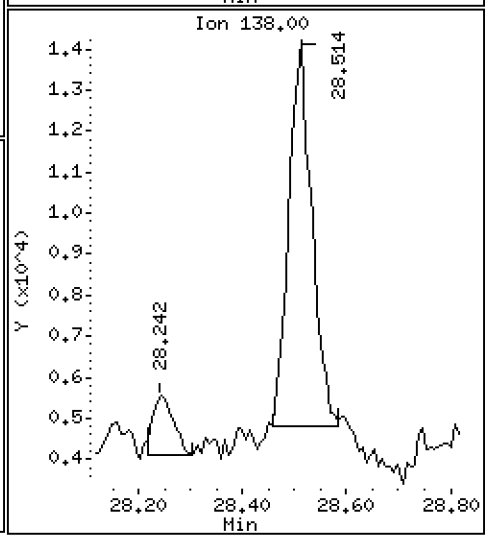












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Date : 22-MAR-2023 00:52

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-04

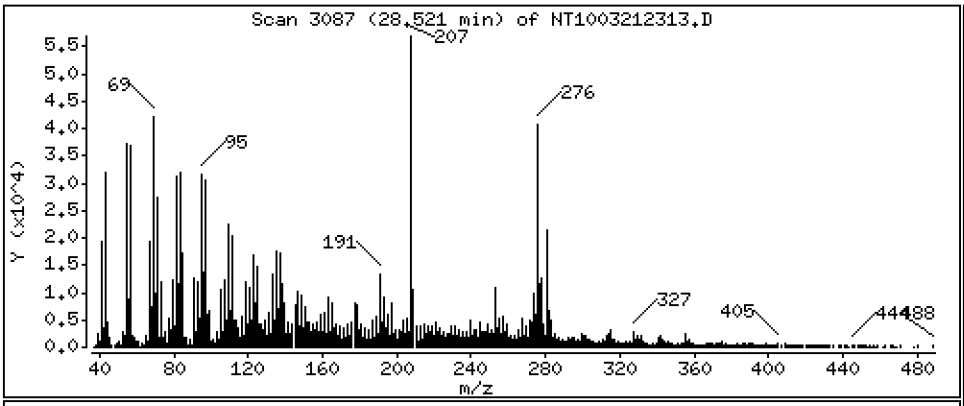
Operator: VTS

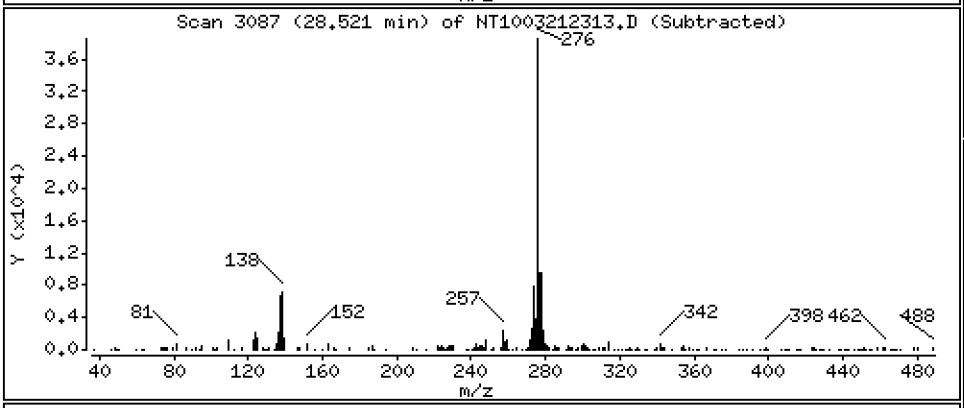
Column phase: ZB-5msi

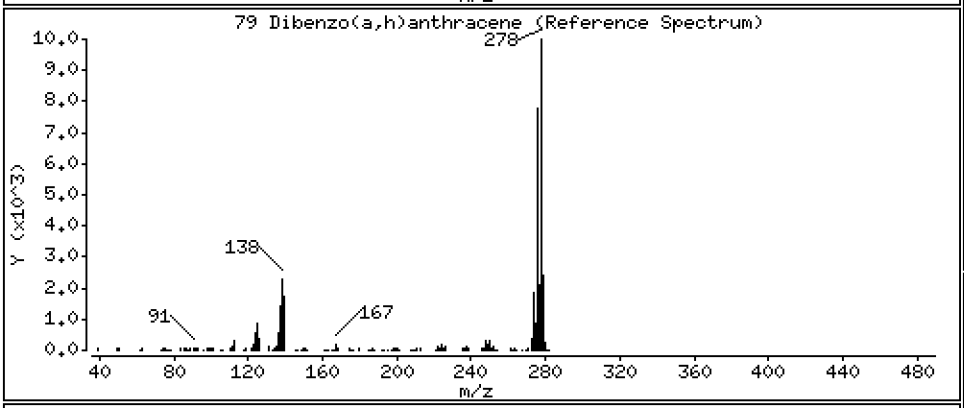
Column diameter: 0.25

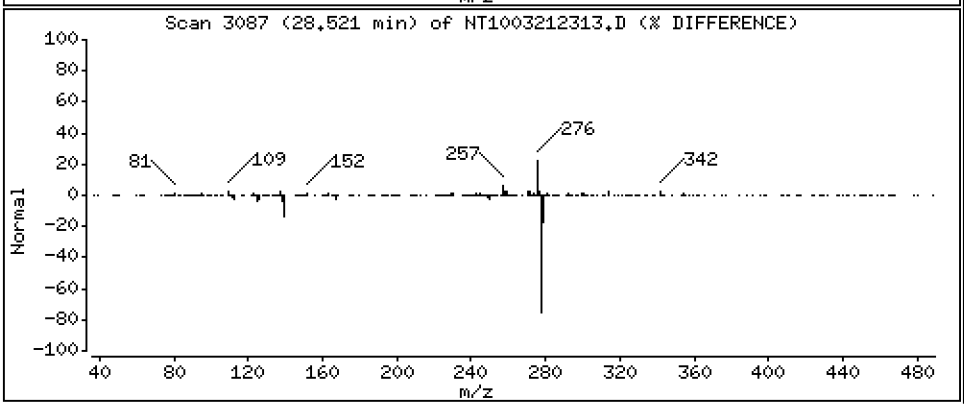
79 Dibenzo(a,h)anthracene

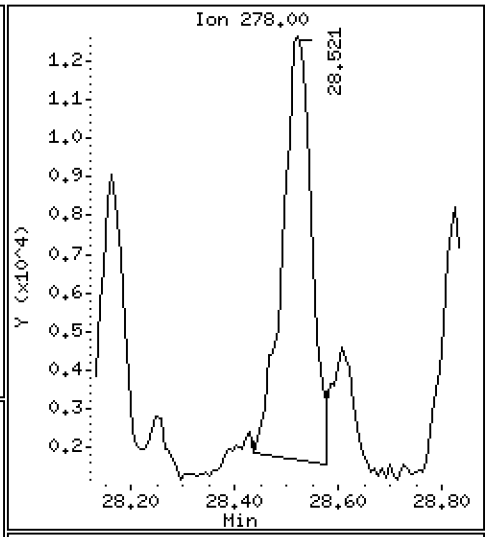
Concentration: 0.1779 ug/mL

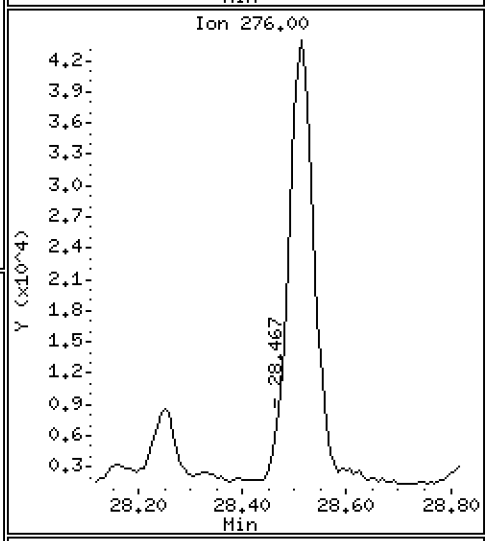


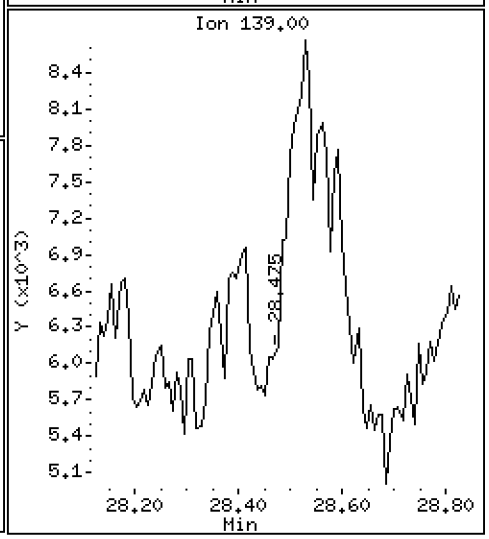












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Date : 22-MAR-2023 00:52

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-04

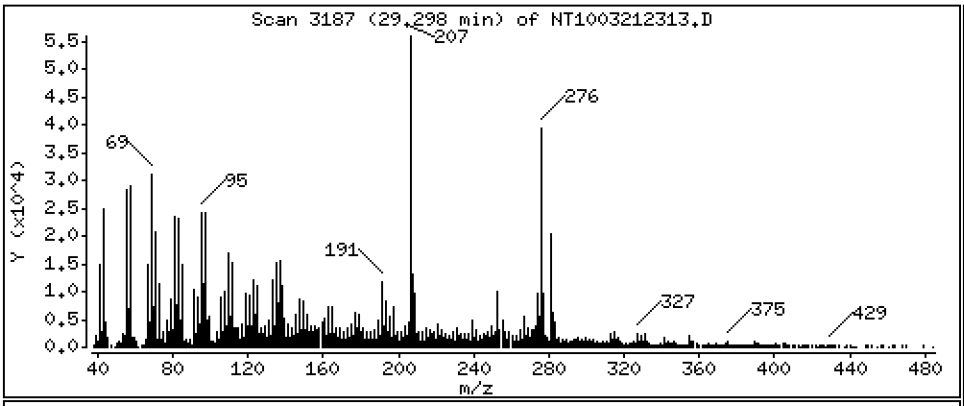
Operator: VTS

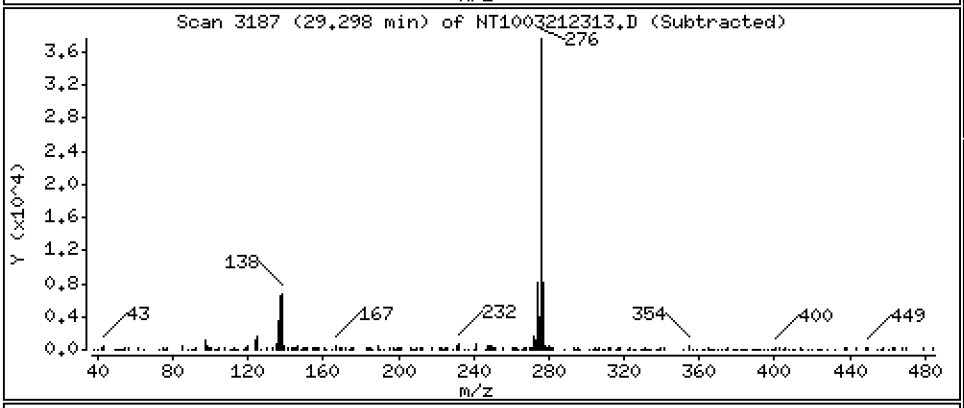
Column phase: ZB-5msi

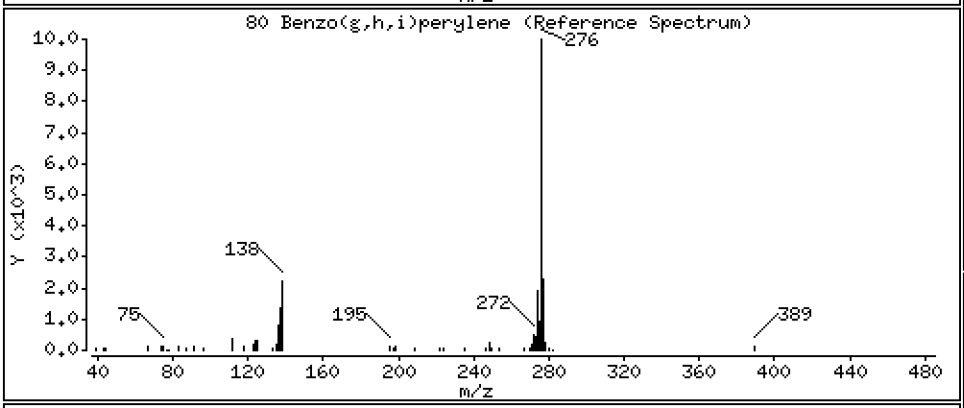
Column diameter: 0.25

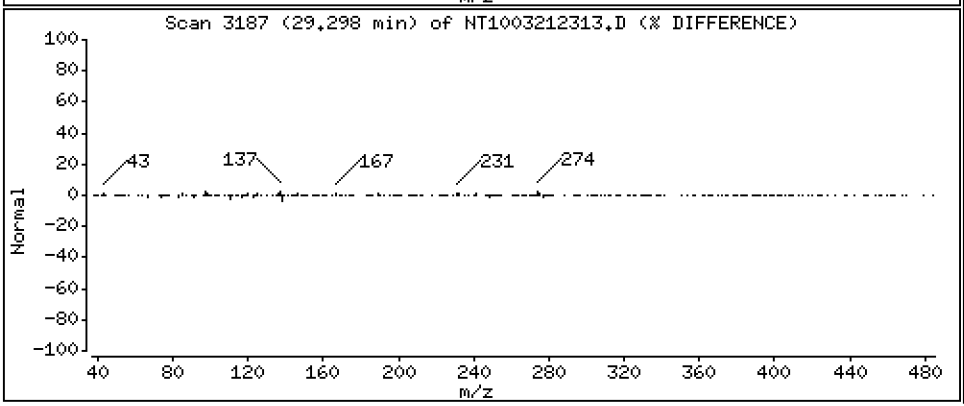
80 Benzo(g,h,i)perylene

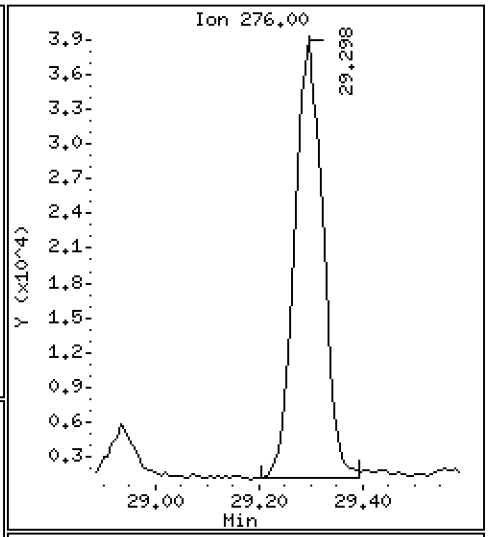
Concentration: 0.5670 ug/mL

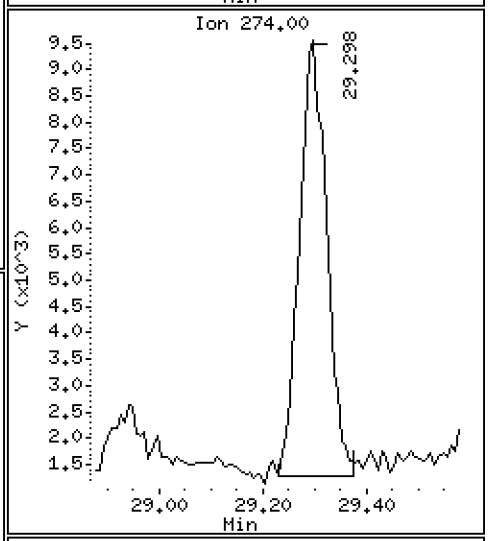


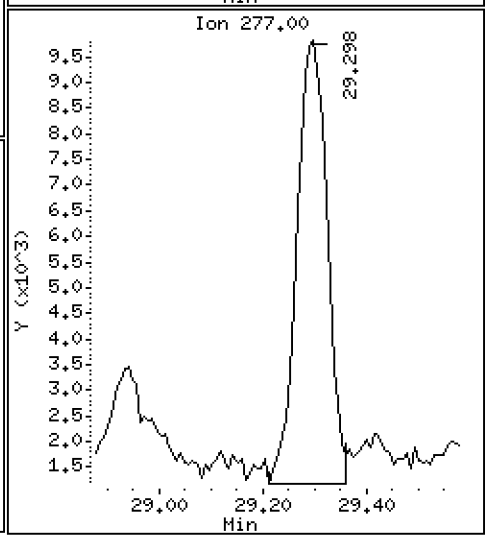












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212313.D

Date : 22-MAR-2023 00:52

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-04

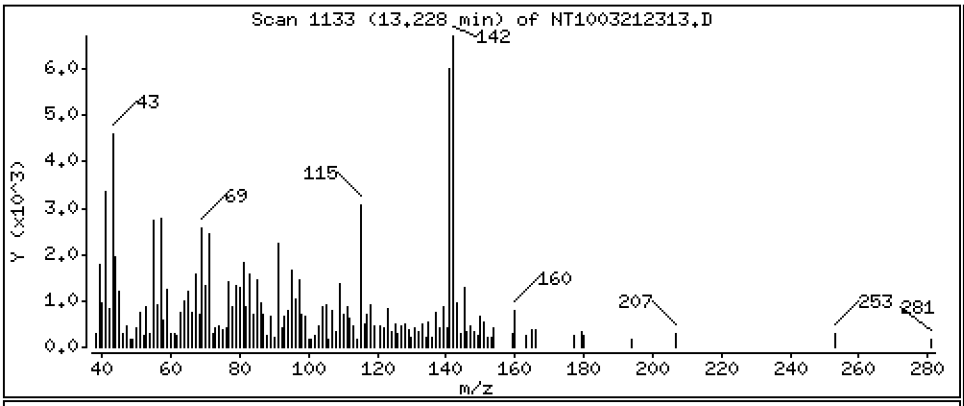
Operator: VTS

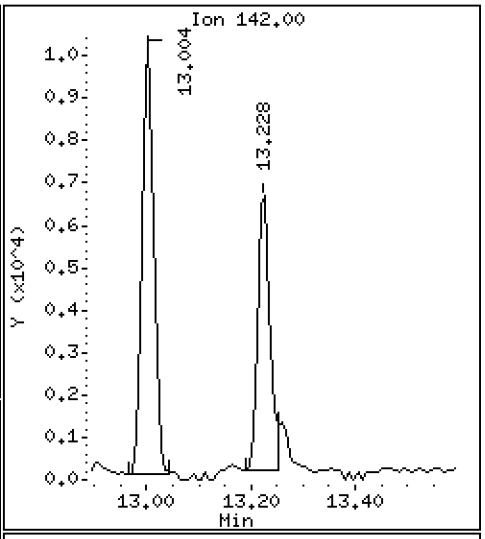
Column phase: ZB-5msi

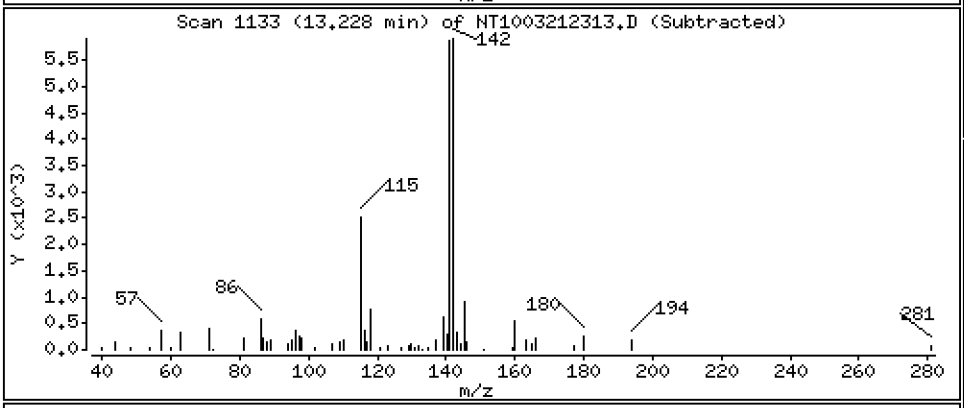
Column diameter: 0.25

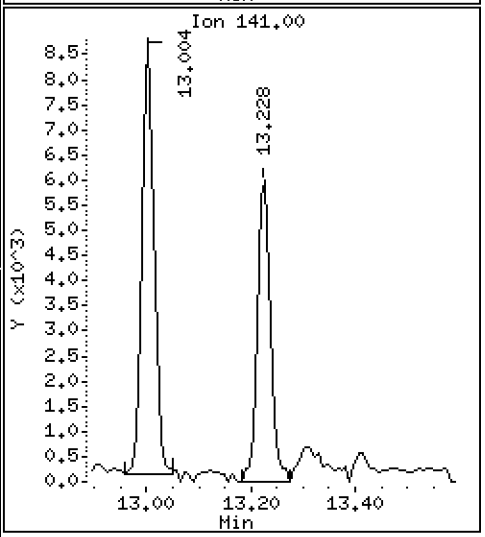
105 1-methylnaphthalene

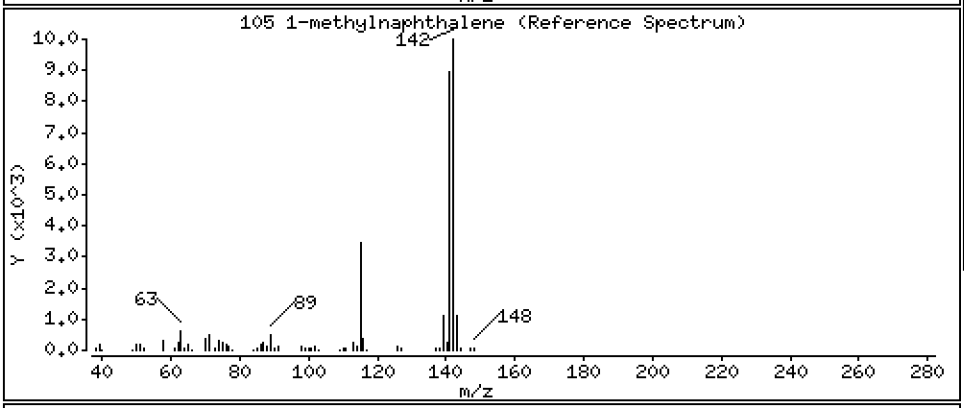
Concentration: 0.08408 ug/mL

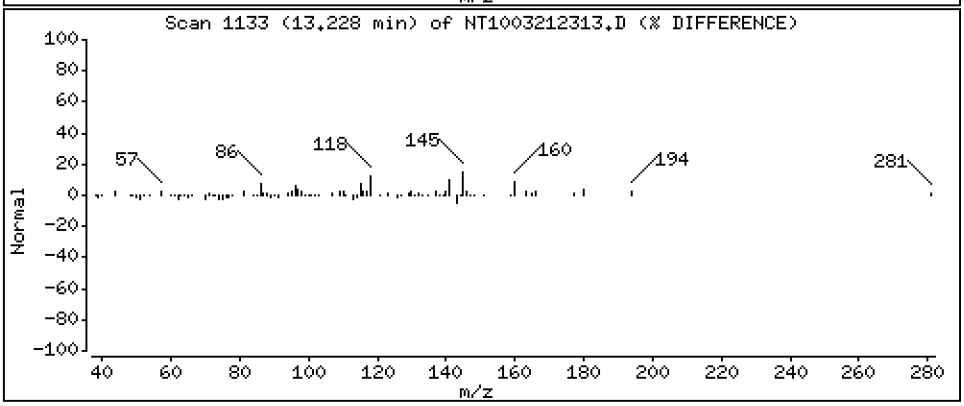












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Date : 22-MAR-2023 00:52

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-04

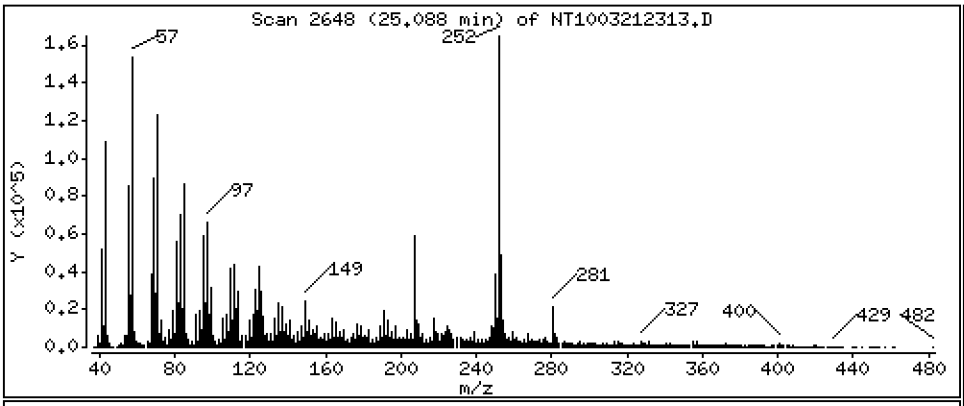
Operator: VTS

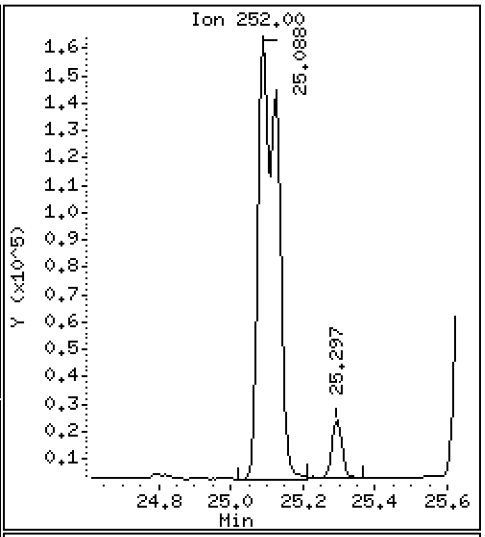
Column phase: ZB-5msi

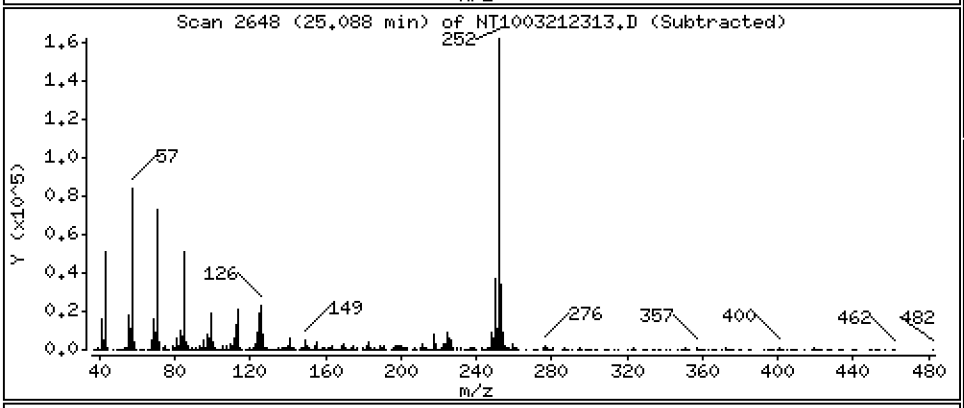
Column diameter: 0.25

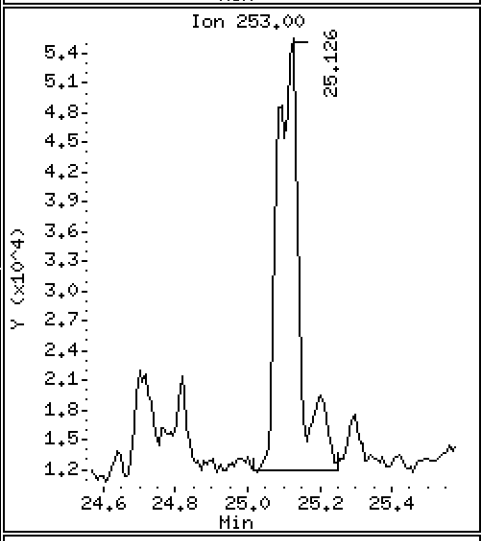
187 Total Benzofluoranthenes

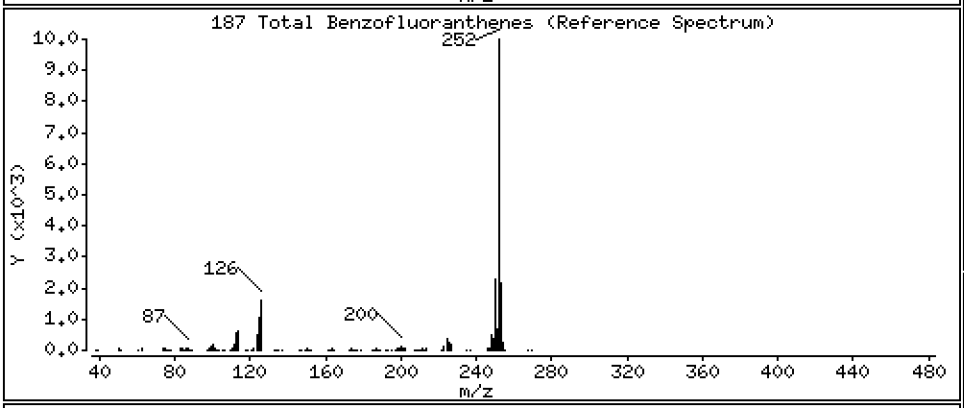
Concentration: 2.386 ug/mL

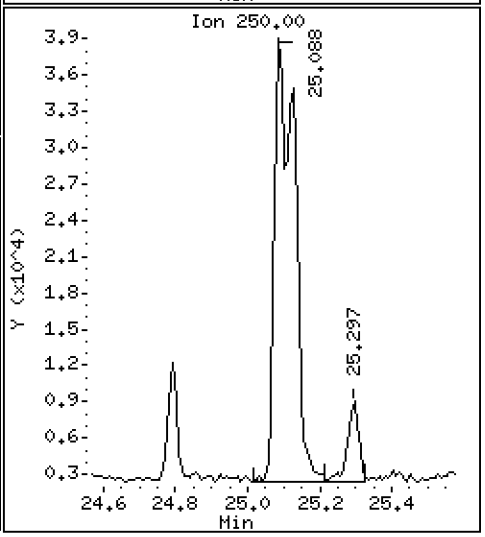


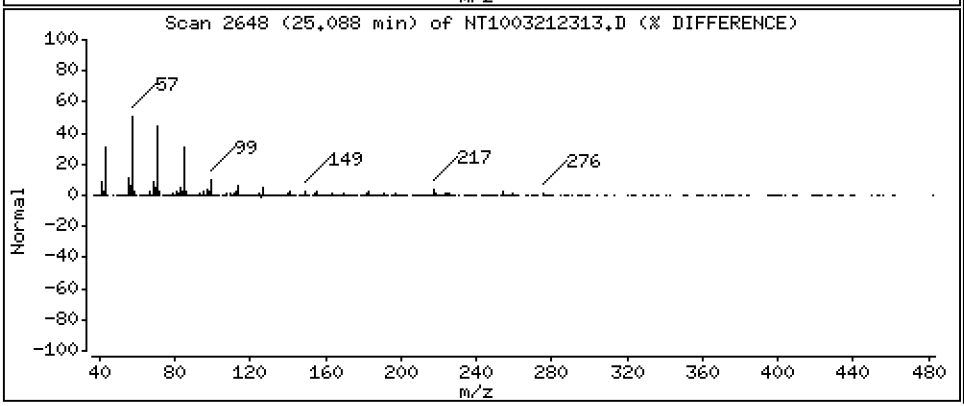












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230321.b\NT1003212313.D
Lab Smp Id: 23C0071-04
Inj Date : 22-MAR-2023 00:52
Operator : VTS Inst ID: nt10.i
Smp Info : 23C0071-04
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230321.b\ABN.m
Meth Date : 29-Mar-2023 06:54 van Quant Type: ISTD
Cal Date : 16-MAR-2023 00:22 Cal File: NT10031508.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

								CONCENTRATIONS	
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)	
$	1 2-Fluorophenol	112	6.890	6.889	(0.729)	301898	4.99986	5.000	
$	2 Phenol-d5	99	8.466	8.473	(0.895)	407477	5.14418	5.144	
	3 Phenol	94	8.489	8.497	(0.898)	15244	0.18520	0.1852	
$	5 2-Chlorophenol-d4	132	8.736	8.744	(0.924)	376813	5.57079	5.571	
	4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.						
	6 2-Chlorophenol	128	Compound Not Detected.						
	7 1,3-Dichlorobenzene	146	Compound Not Detected.						
*	8 1,4-Dichlorobenzene-d4	152	9.100	9.108	(1.000)	199666	4.00000		(H)
	9 1,4-Dichlorobenzene	146	Compound Not Detected.						
$	10 1,2-Dichlorobenzene-d4	152	9.457	9.465	(1.000)	165796	3.41309	3.413	
	12 1,2-Dichlorobenzene	146	Compound Not Detected.						
	11 Benzyl alcohol	108	9.372	9.379	(0.991)	39479	1.02184	1.022	
	14 2,2'-oxybis(1-Chloropropane)	121	Compound Not Detected.						
	13 2-Methylphenol	108	9.597	9.604	(1.055)	2040	0.03400	0.03400	(M)
	17 Hexachloroethane	117	Compound Not Detected.						
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.						
	15 4-Methylphenol	108	9.869	9.876	(1.044)	8679	0.13728	0.1373	
$	18 Nitrobenzene-d5	82	10.187	10.202	(0.880)	258538	3.52501	3.525	
	19 Nitrobenzene	77	Compound Not Detected.						
	20 Isophorone	82	Compound Not Detected.						
	21 2-Nitrophenol	139	Compound Not Detected.						
	22 2,4-Dimethylphenol	107	Compound Not Detected.						
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.						
	24 Benzoic acid	105	11.011	11.113	(0.952)	27755	0.75500	0.7550	(MH)
	25 2,4-Dichlorophenol	162	Compound Not Detected.						
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.						
*	27 Naphthalene-d8	136	11.572	11.587	(1.000)	726636	4.00000		
	28 Naphthalene	128	11.611	11.626	(1.003)	29537	0.15344	0.1534	
	29 4-Chloroaniline	127	Compound Not Detected.						
	30 Hexachlorobutadiene	225	Compound Not Detected.						
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.						
	32 2-Methylnaphthalene	142	13.003	13.018	(1.124)	15492	0.11152	0.1115	
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.						

			QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
34	2,4,6-Trichlorophenol		196	Compound Not Detected.					
35	2,4,5-Trichlorophenol		196	Compound Not Detected.					
$ 36	2-Fluorobiphenyl		172	13.785	13.800	(0.909)	608301	3.85376	3.854
37	2-Chloronaphthalene		162	Compound Not Detected.					
38	2-Nitroaniline		65	Compound Not Detected.					
39	Dimethylphthalate		163	14.675	14.698	(0.967)	7570	0.05840	0.05840
40	Acenaphthylene		152	14.853	14.876	(0.979)	19037	0.09559	0.09559
41	2,6-Dinitrotoluene		165	Compound Not Detected.					
* 42	Acenaphthene-d10		164	15.170	15.185	(1.000)	399032	4.00000	
43	3-Nitroaniline		138	Compound Not Detected.					
44	Acenaphthene		153	15.232	15.247	(1.004)	13425	0.10911	0.1091
45	2,4-Dinitrophenol		184	Compound Not Detected.					
46	Dibenzofuran		168	15.557	15.572	(1.025)	23352	0.12871	0.1287
47	4-Nitrophenol		109	Compound Not Detected.					
48	2,4-Dinitrotoluene		165	Compound Not Detected.					
50	Diethylphthalate		149	16.121	16.144	(1.063)	32796	0.25786	0.2579
49	Fluorene		166	16.268	16.283	(1.072)	21006	0.14716	0.1472
51	4-Chlorophenyl-phenylether		204	Compound Not Detected.					
52	4-Nitroaniline		138	Compound Not Detected.					
53	4,6-Dinitro-2-methylphenol		198	Compound Not Detected.					
54	N-Nitrosodiphenylamine		169	Compound Not Detected.					
$ 55	2,4,6-Tribromophenol		330	16.800	16.815	(1.107)	152105	8.18959	8.190
56	4-Bromophenyl-phenylether		248	Compound Not Detected.					
57	Hexachlorobenzene		284	Compound Not Detected.					
58	Pentachlorophenol		266	Compound Not Detected.					
* 59	Phenanthrene-d10		188	18.191	18.206	(1.000)	747415	4.00000	
60	Phenanthrene		178	18.237	18.252	(1.003)	167431	0.82153	0.8215
61	Anthracene		178	18.330	18.338	(1.008)	74380	0.38046	0.3805
62	Carbazole		167	18.663	18.670	(1.026)	25532	0.14574	0.1457
63	Di-n-butylphthalate		149	19.468	19.475	(1.070)	12413	0.05269	0.05269
64	Fluoranthene		202	20.628	20.620	(0.888)	601218	2.20104	2.201
65	Pyrene		202	21.046	21.046	(0.906)	551505	1.96822	1.968
$ 66	Terphenyl-d14		244	21.332	21.332	(0.918)	842505	4.00376	4.004
67	Butylbenzylphthalate		149	22.261	22.261	(0.958)	21877	0.22228	0.2223
68	Benzo(a)anthracene		228	23.206	23.198	(0.999)	219475	0.91469	0.9147
* 69	Chrysene-d12		240	23.237	23.229	(1.000)	679791	4.00000	
70	3,3'-Dichlorobenzidine		252	Compound Not Detected.					
71	Chrysene		228	23.276	23.275	(1.002)	327189	1.39573	1.396
72	bis(2-Ethylhexyl)phthalate		149	23.291	23.283	(0.959)	193800	1.15911	1.159
* 134	Di-n-octylphthalate-d4		153	24.282	24.266	(1.000)	1142459	4.00000	
73	Di-n-octylphthalate		149	Compound Not Detected.					
74	Benzo(b)fluoranthene		252	25.087	25.071	(0.970)	354810	1.37152	1.372
75	Benzo(k)fluoranthene		252	25.126	25.118	(0.972)	290704	1.10665	1.107
76	Benzo(a)pyrene		252	25.738	25.722	(0.995)	219154	0.94753	0.9475
* 77	Perylene-d12		264	25.861	25.830	(1.000)	798080	4.00000	
78	Indeno(1,2,3-cd)pyrene		276	28.513	28.466	(1.103)	145149	0.49327	0.4933
79	Dibenzo(a,h)anthracene		278	28.521	28.482	(1.103)	43456	0.17788	0.1779(M)
80	Benzo(g,h,i)perylene		276	29.298	29.235	(1.133)	144393	0.56701	0.5670
90	N-Nitrosodimethylamine		74	Compound Not Detected.					
91	Aniline		93	Compound Not Detected.					
93	Benzidine		184	Compound Not Detected.					
103	Pyridine		79	Compound Not Detected.					
105	1-methylnaphthalene		142	13.228	13.243	(1.143)	10701	0.08408	0.08408
111	Azobenzene (1,2-DP-Hydrazine)		77	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.087	25.118	(0.970)	595915	2.38576	2.386
120 2,3,4,6-Tetrachlorophenol	232	Compound Not Detected.					

QC Flag Legend

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

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1003212313.D
Lab Smp Id: 23C0071-04
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230321.b\ABN.m
Misc Info:

Calibration Date: 21-MAR-2023
Calibration Time: 17:46
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	138414	69207	276828	199666	44.25
27 Naphthalene-d8	511348	255674	1022696	726636	42.10
42 Acenaphthene-d10	293241	146621	586482	399032	36.08
59 Phenanthrene-d10	535484	267742	1070968	747415	39.58
69 Chrysene-d12	464733	232367	929466	679791	46.28
134 Di-n-octylphthala	716354	358177	1432708	1142459	59.48
77 Perylene-d12	509704	254852	1019408	798080	56.58

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.11	8.61	9.61	9.10	-0.08
27 Naphthalene-d8	11.59	11.09	12.09	11.57	-0.13
42 Acenaphthene-d10	15.19	14.69	15.69	15.17	-0.10
59 Phenanthrene-d10	18.21	17.71	18.71	18.19	-0.08
69 Chrysene-d12	23.23	22.73	23.73	23.24	0.03
134 Di-n-octylphthala	24.27	23.77	24.77	24.28	0.07
77 Perylene-d12	25.83	25.33	26.33	25.86	0.12

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

REVIEW SUMMARY FOR FILE - NT1003212313.D

Lab ID: 23C0071-04
nt10.i, 20230321.b\ABN.m,   22-MAR-2023 00:52

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
1.055	1.015	0.0398	2-Methylphenol
0.952	0.959	-0.0075	Benzoic acid

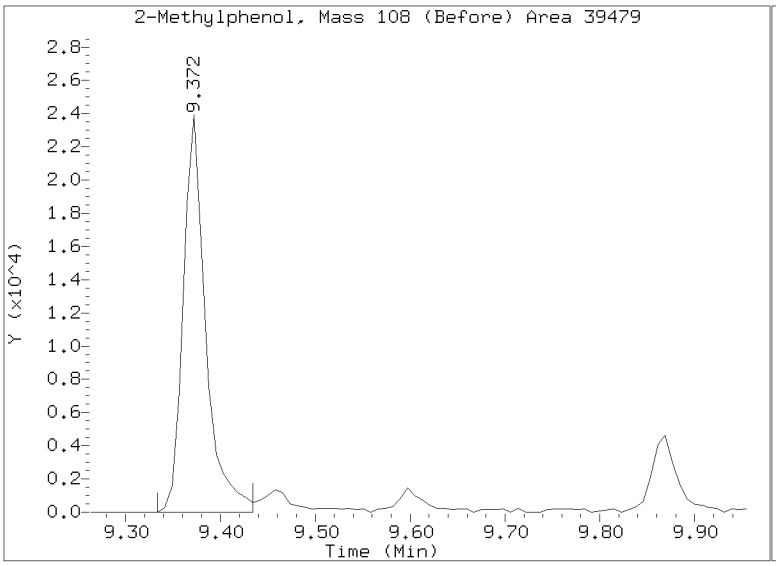
RRT check based on Ccal File: NT1003212302.D

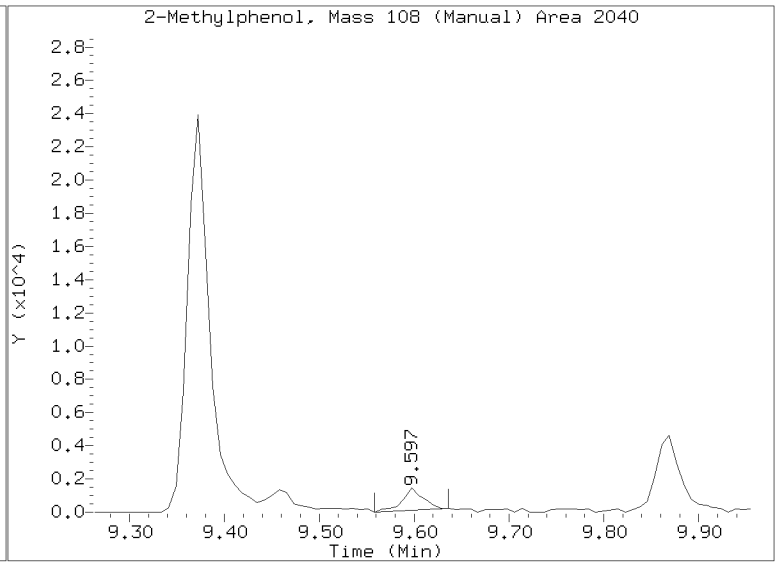
On Column LOD for nt10.i, 20230321.b\ABN.m, ICAL.sub = 0.0000

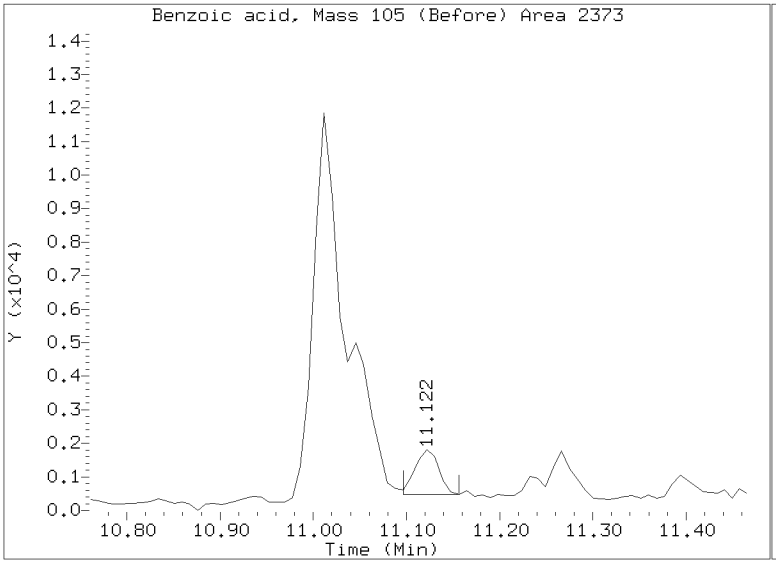
* Only compounds listed in the work order have been verified by the analyst *

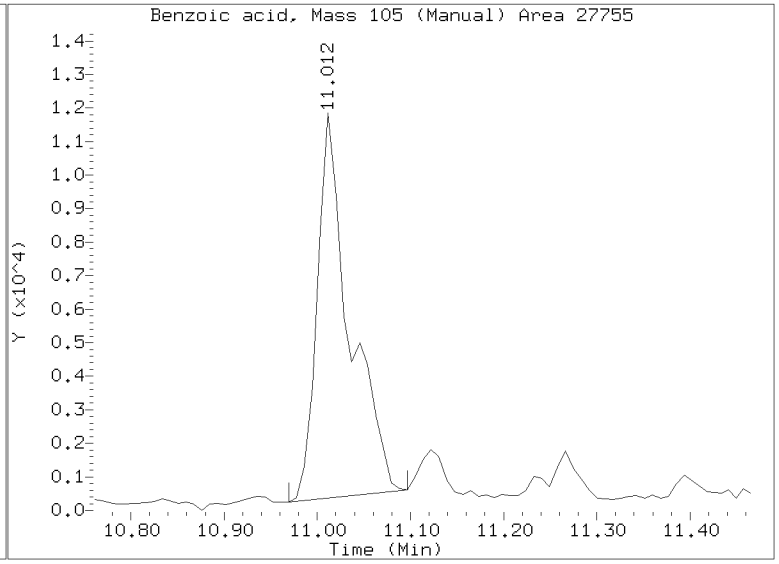
Quant Ion Manual Peak Adjustment Report

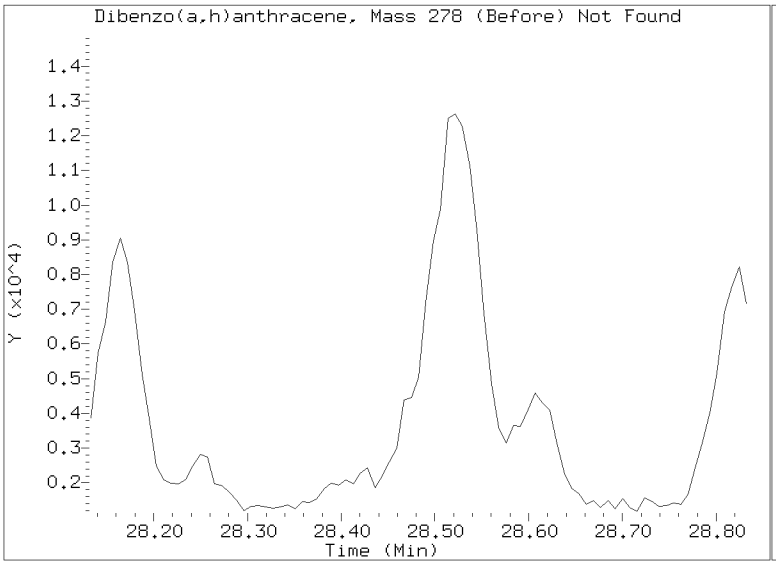
Datafile: //target/share/chem3/nt10.i/20230321.b/NT1003212313.D
Injection Date: 22-MAR-2023 00:52
Lab ID:23C0071-04 Client ID:
Report Date: 03/29/2023 08:03

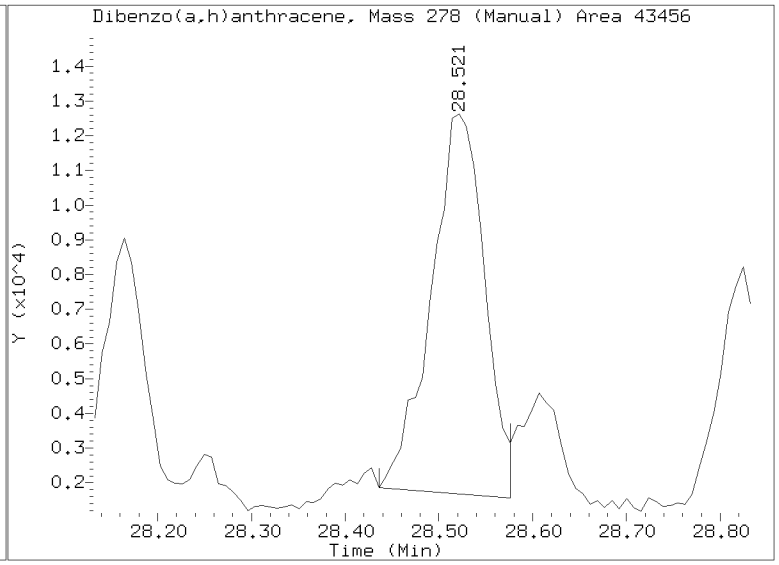












Analytical Resources, LLC
Analytical Chemists and Consultants

LDW23-SS1048

Form I

ORGANIC ANALYSIS DATA SHEET

EPA 8270E

Semivolatiles (20ug/kg - 0.2ug/L SepF)

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0071-05 A	SDG:	23C0071
Sampled:	03/02/23 10:32	Prepared:	03/07/23 10:21	File ID:	NT1003212314.D
% Solids:	50.00	Preparation:	EPA 3546 (Microwave)	Analyzed:	03/22/23 01:30
Batch:	BLC0109	Sequence:	SLC0451	Initial/Final:	20 g Wet / 1 mL
Instrument:	NT10	Column:	ZB-5MSi	Calibration:	GC00046
Cleanups:	GPC				

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
108-95-2	Phenol	1	20.1		4.4	20.0
106-44-5	4-Methylphenol	1	10.9	J	7.4	20.0
91-20-3	Naphthalene	1	9.8	J	4.2	20.0
91-57-6	2-Methylnaphthalene	1	9.6	J	4.5	20.0
208-96-8	Acenaphthylene	1	6.3	J	6.2	20.0
131-11-3	Dimethylphthalate	1	6.0	J	4.4	20.0
83-32-9	Acenaphthene	1	7.2	J	5.2	20.0
132-64-9	Dibenzofuran	1	20.0	U	14.1	20.0
86-73-7	Fluorene	1	20.0	U	14.6	20.0
85-01-8	Phenanthrene	1	58.7		8.7	20.0
120-12-7	Anthracene	1	25.3		7.2	20.0
206-44-0	Fluoranthene	1	137		6.1	20.0
129-00-0	Pyrene	1	130		5.7	20.0
85-68-7	Butylbenzylphthalate	1	13.6	J	9.4	20.0
56-55-3	Benzo(a)anthracene	1	68.6		6.0	20.0
218-01-9	Chrysene	1	107		6.1	20.0
117-81-7	bis(2-Ethylhexyl)phthalate	1	79.8		5.5	50.0
	Benzofluoranthenes, Total	1	158		10.0	40.0
50-32-8	Benzo(a)pyrene	1	63.9		4.2	20.0
193-39-5	Indeno(1,2,3-cd)pyrene	1	32.6		14.7	20.0
53-70-3	Dibenzo(a,h)anthracene	1	20.0	U	17.2	20.0
191-24-2	Benzo(g,h,i)perylene	1	36.7		13.6	20.0

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorophenol	750.00	573	76.4	27 - 120	
Phenol-d5	750.00	571	76.1	29 - 120	
2-Chlorophenol-d4	750.00	633	84.4	31 - 120	
1,2-Dichlorobenzene-d4	500.00	387	77.3	32 - 120	
Nitrobenzene-d5	500.00	397	79.3	30 - 120	
2-Fluorobiphenyl	500.00	429	85.9	35 - 120	

Analytical Resources, LLC
Analytical Chemists and Consultants

LDW23-SS1048

Form I

ORGANIC ANALYSIS DATA SHEET

EPA 8270E

Semivolatiles (20ug/kg - 0.2ug/L SepF)

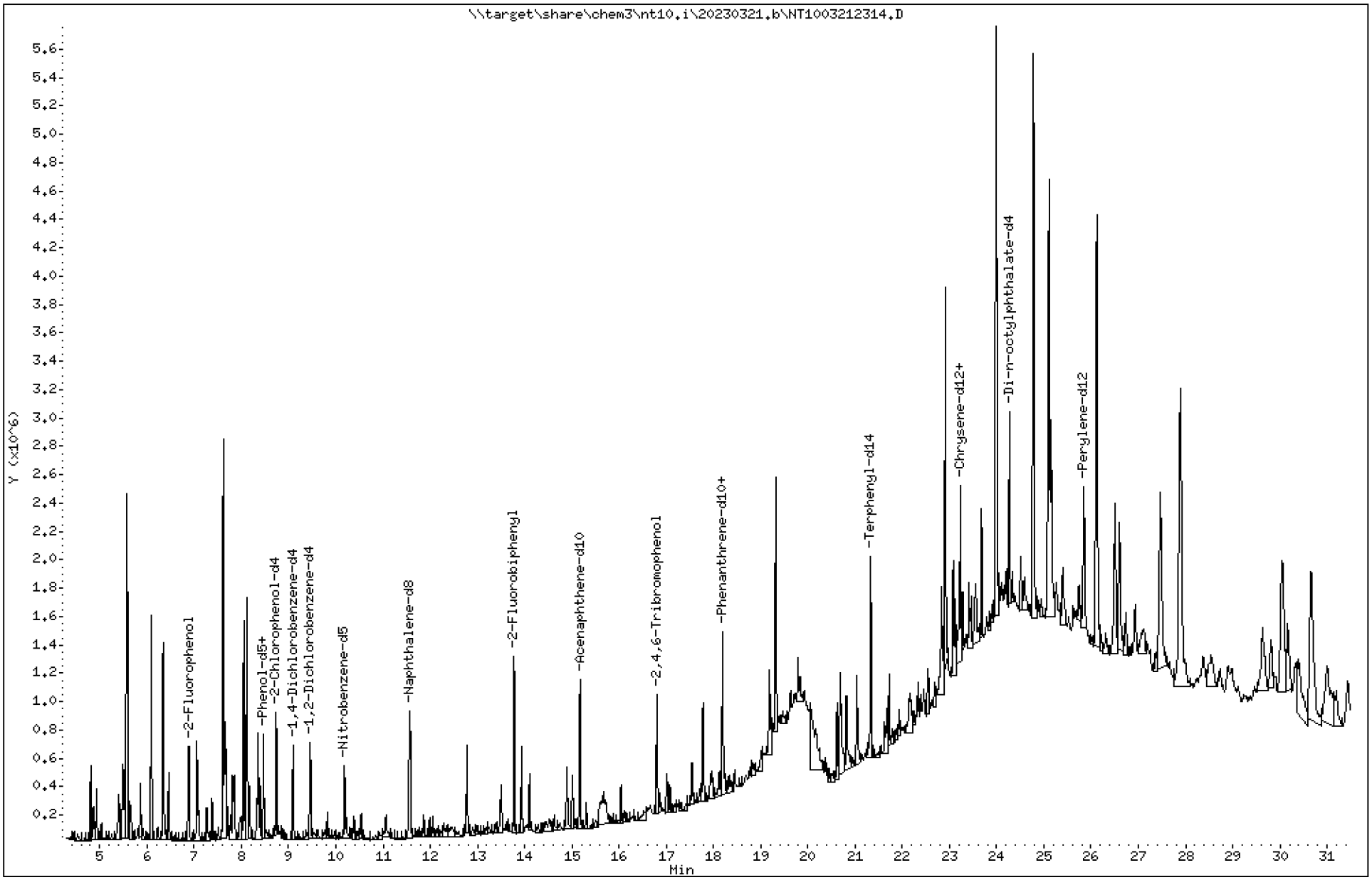
Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0071-05 A	SDG:	23C0071
Sampled:	03/02/23 10:32	Prepared:	03/07/23 10:21	File ID:	NT1003212314.D
% Solids:	50.00	Preparation:	EPA 3546 (Microwave)	Analyzed:	03/22/23 01:30
Batch:	BLC0109	Sequence:	SLC0451	Initial/Final:	20 g Wet / 1 mL
Instrument:	NT10	Column:	ZB-5MSi	Calibration:	GC00046
Cleanups:	GPC				

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2,4,6-Tribromophenol	750.00	874	117	24 - 134	
p-Terphenyl-d14	500.00	422	84.5	37 - 120	

Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212314.D
Date : 22-MAR-2023 01:30
Client ID:
Sample Info: 23C0071-05

Instrument: nt10.i
Operator: VTS
Column diameter: 0.25

Column phase: ZB-5msi



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Date : 22-MAR-2023 01:30

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-05

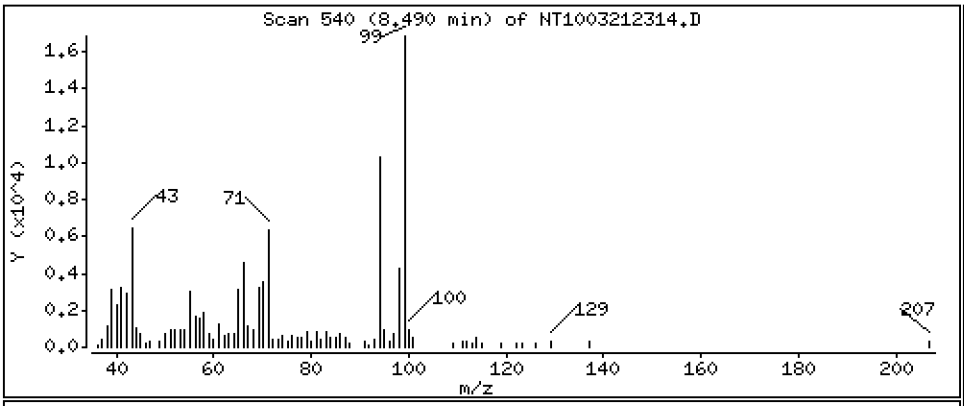
Operator: VTS

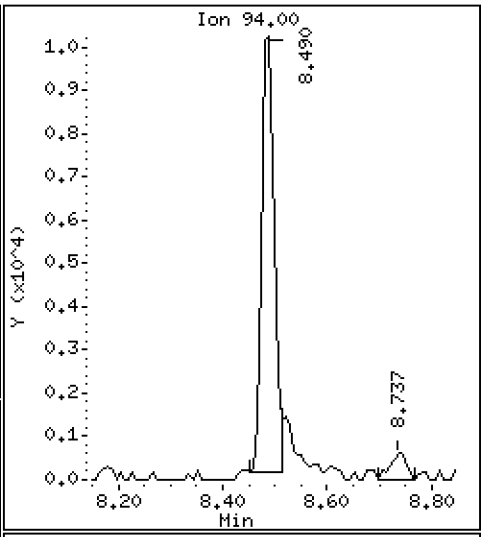
Column phase: ZB-5msi

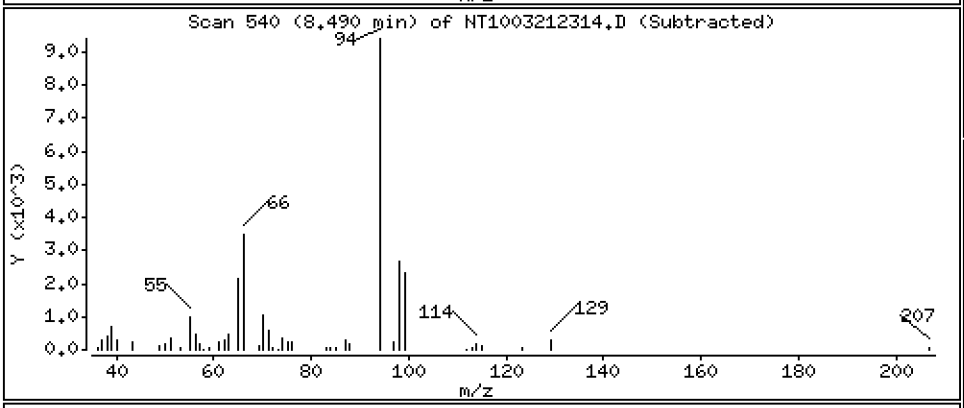
Column diameter: 0.25

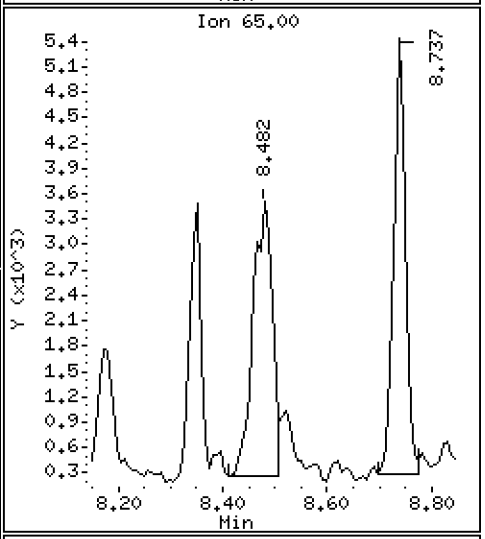
3 Phenol

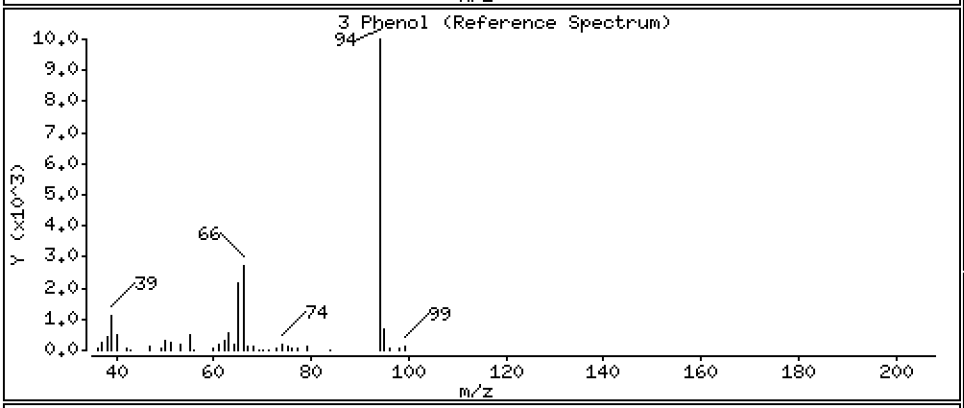
Concentration: 0.2014 ug/mL

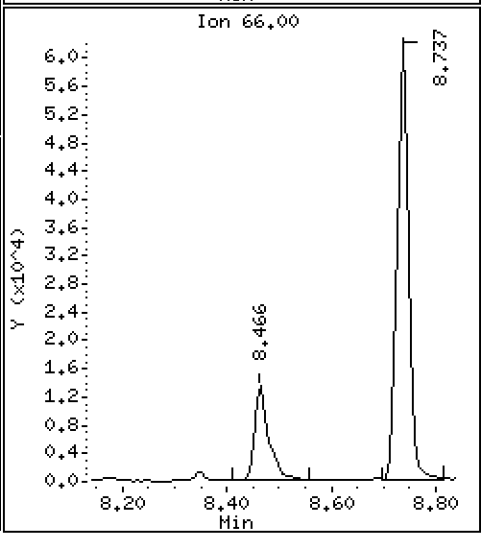


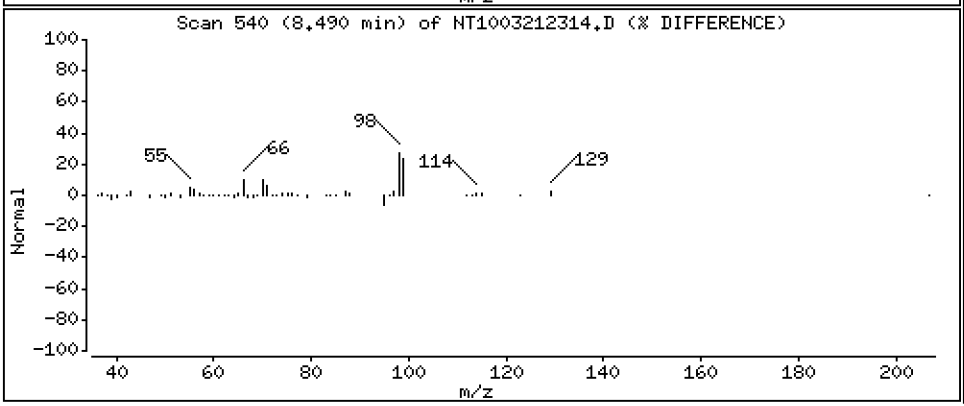












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Date : 22-MAR-2023 01:30

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-05

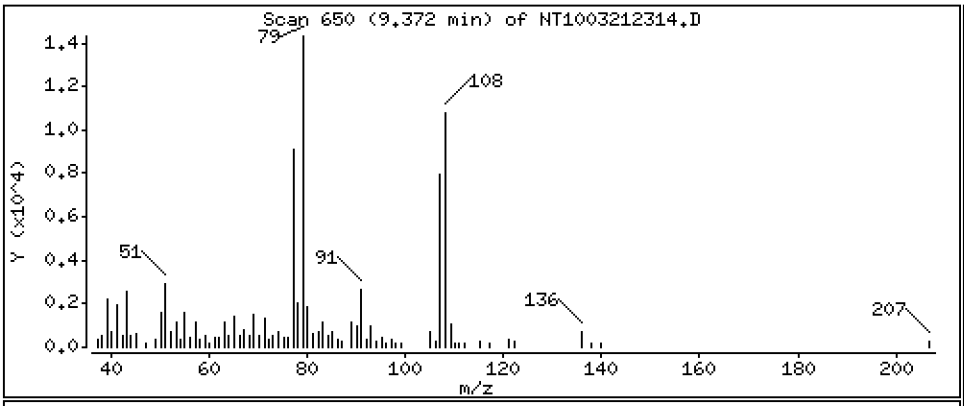
Operator: VTS

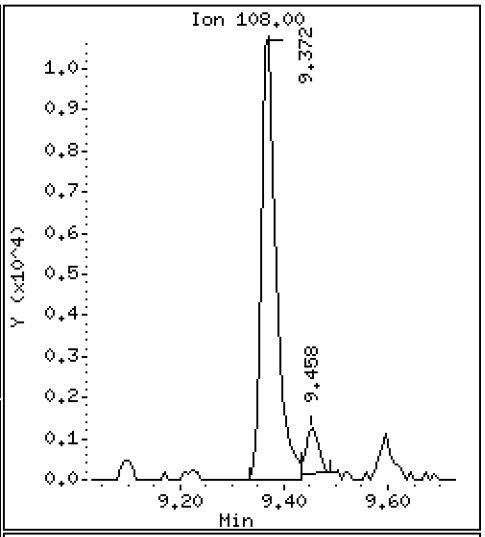
Column phase: ZB-5msi

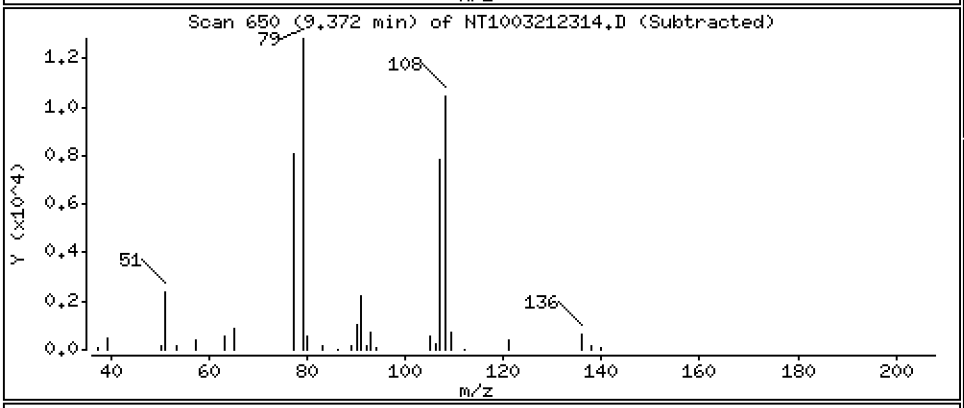
Column diameter: 0.25

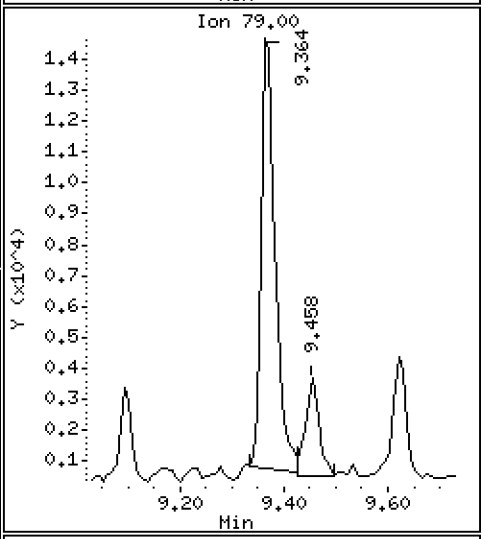
11 Benzyl alcohol

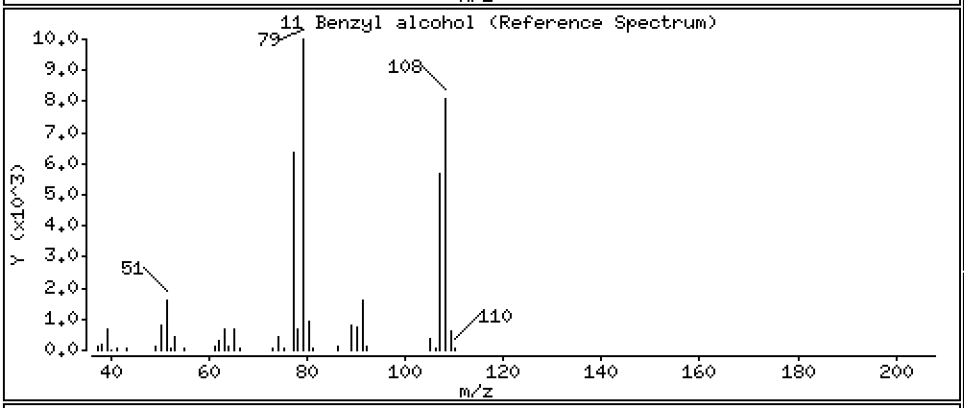
Concentration: 0.5660 ug/mL

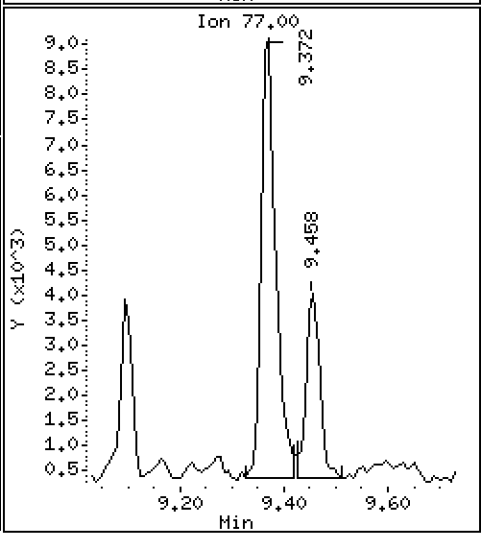


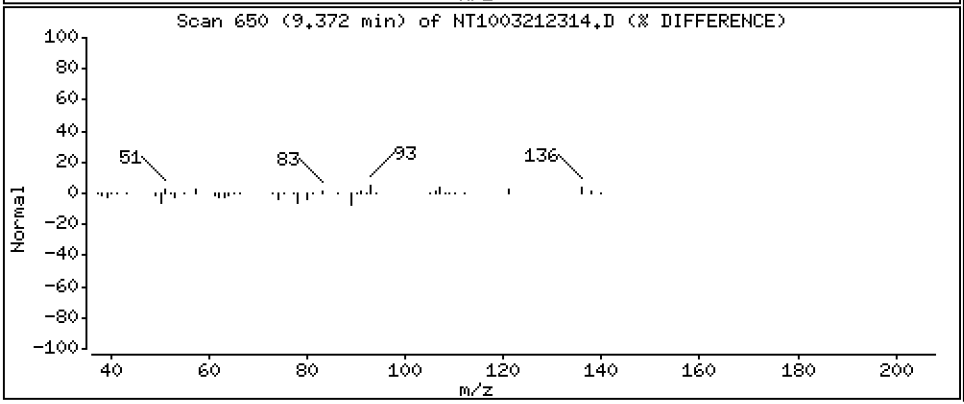












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Date : 22-MAR-2023 01:30

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-05

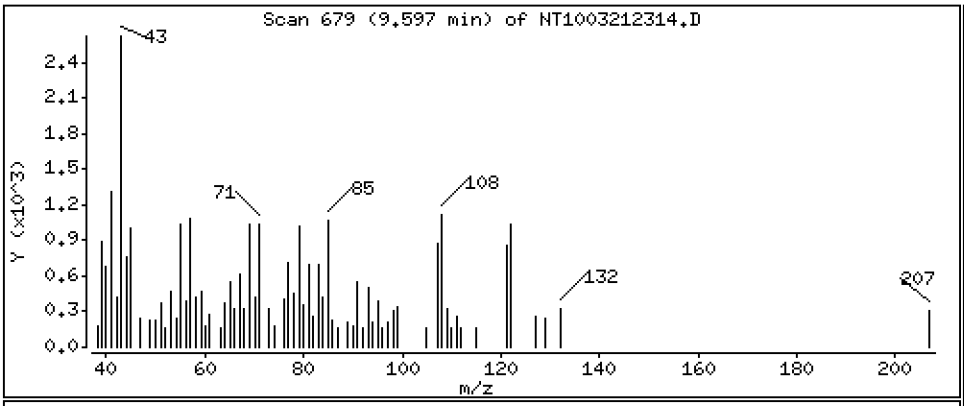
Operator: VTS

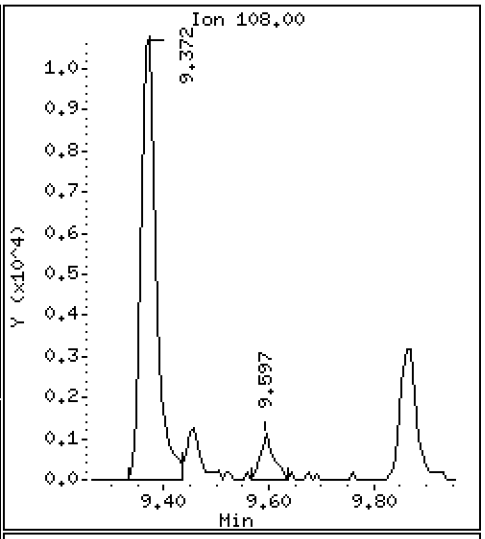
Column phase: ZB-5msi

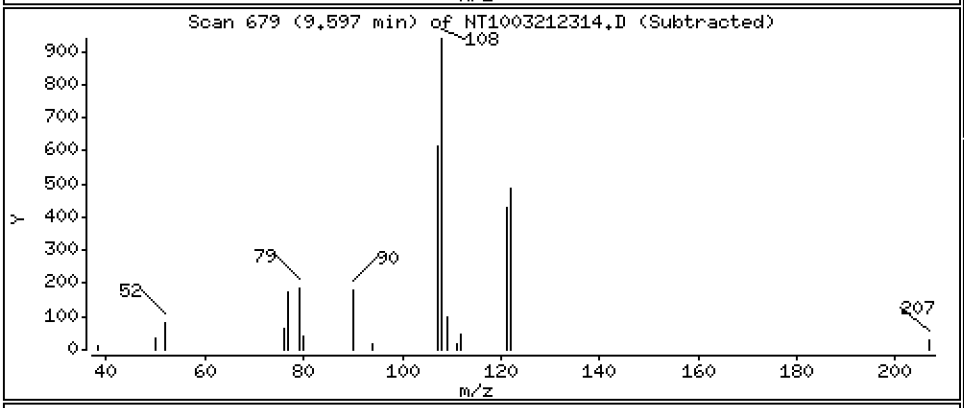
Column diameter: 0.25

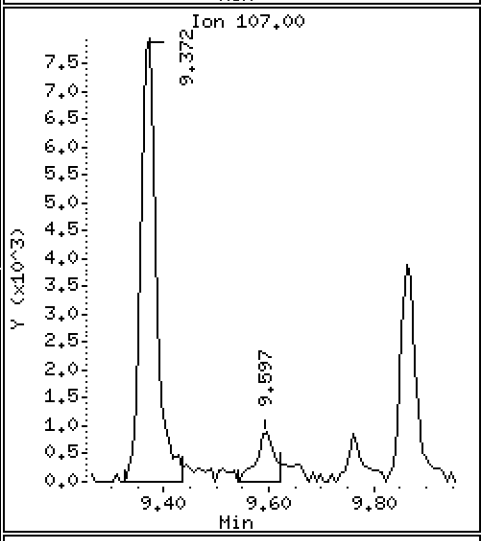
13 2-Methylphenol

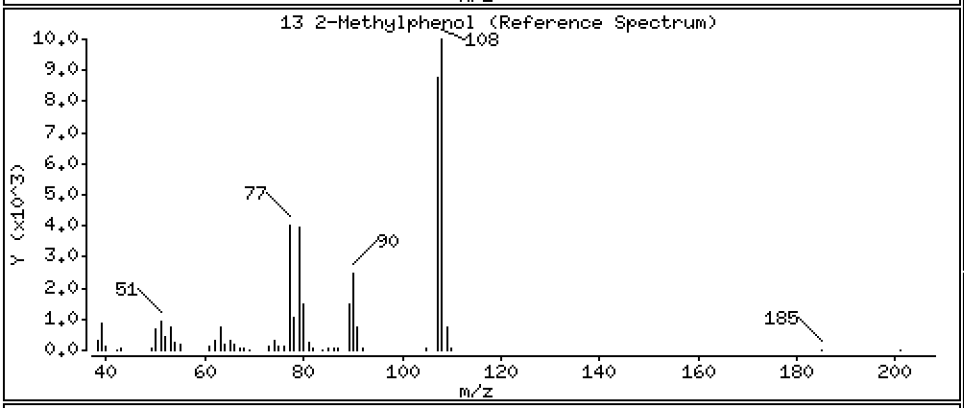
Concentration: 0.03322 ug/mL

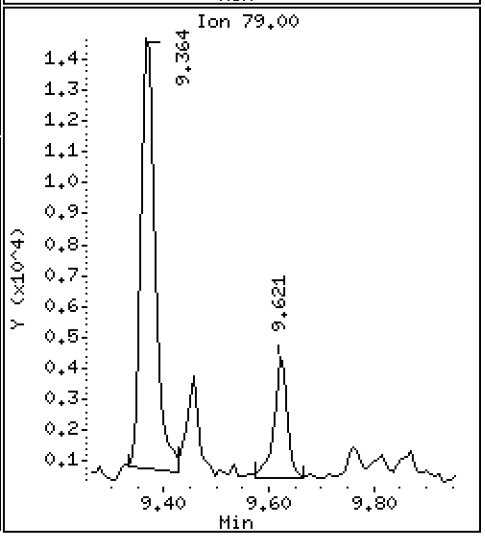


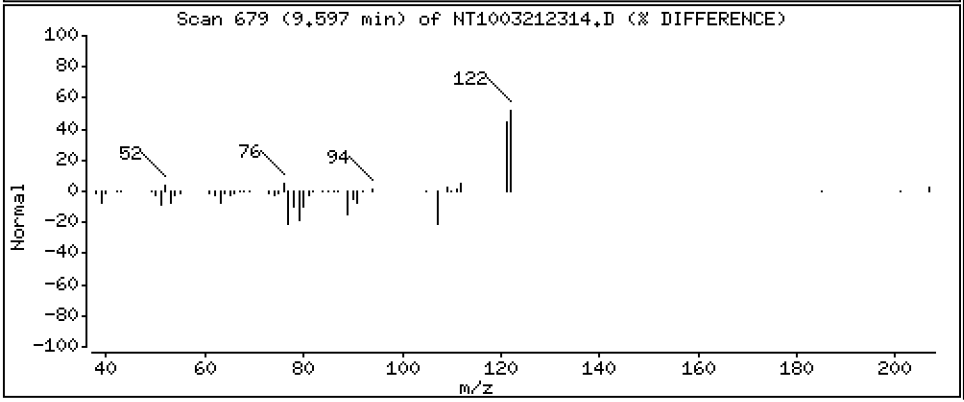












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Date : 22-MAR-2023 01:30

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-05

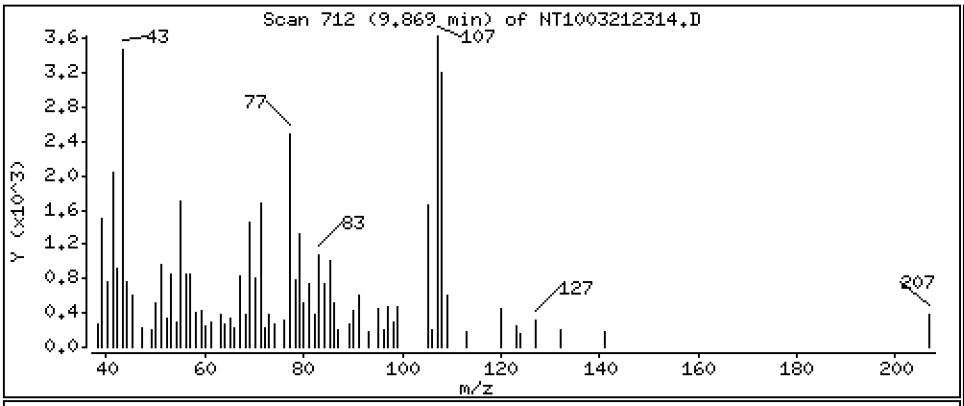
Operator: VTS

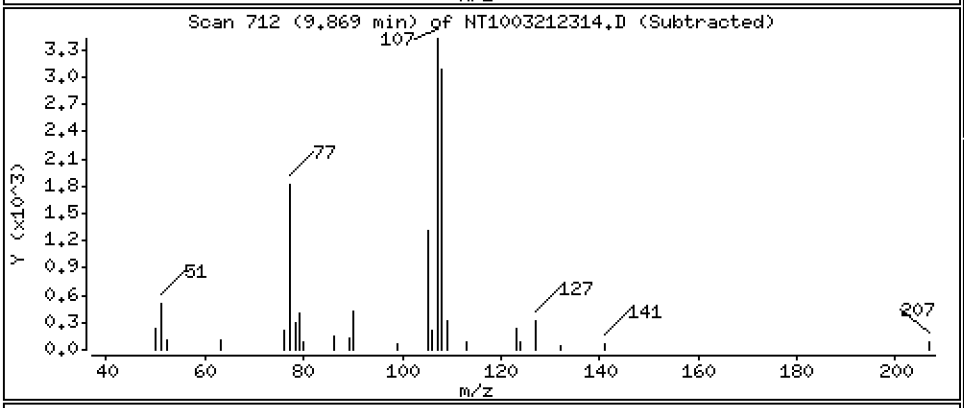
Column phase: ZB-5msi

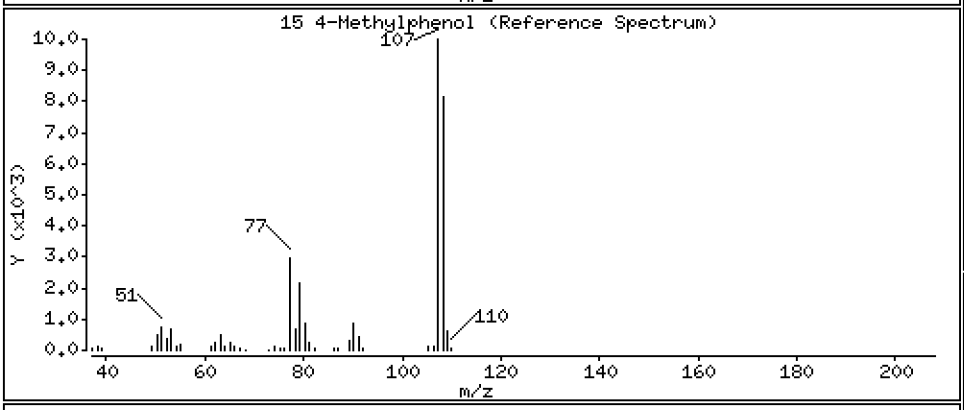
Column diameter: 0.25

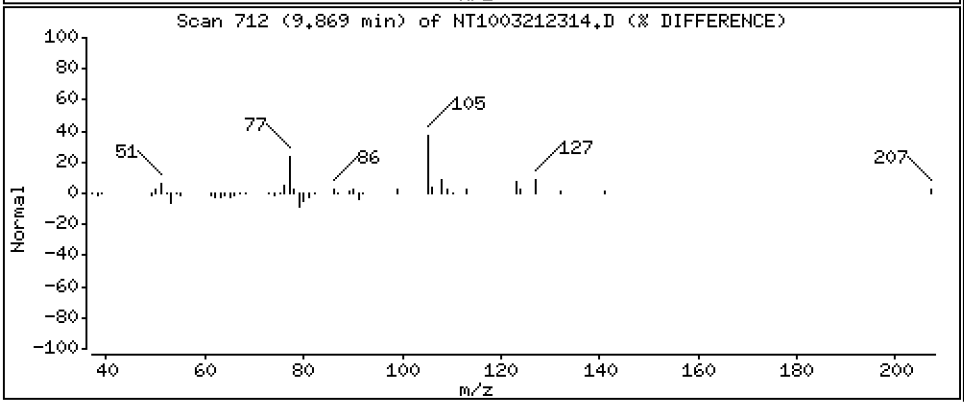
15 4-Methylphenol

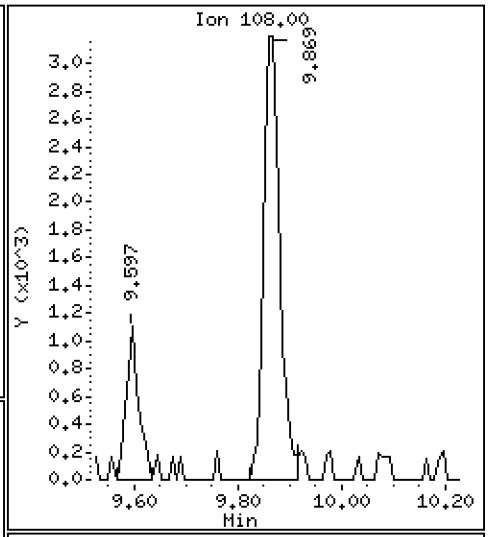
Concentration: 0.1094 ug/mL

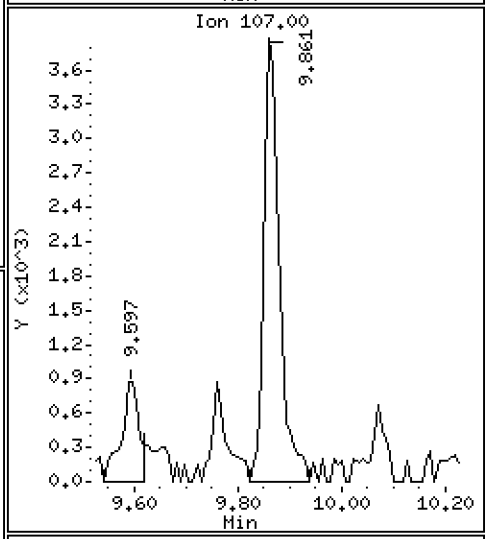


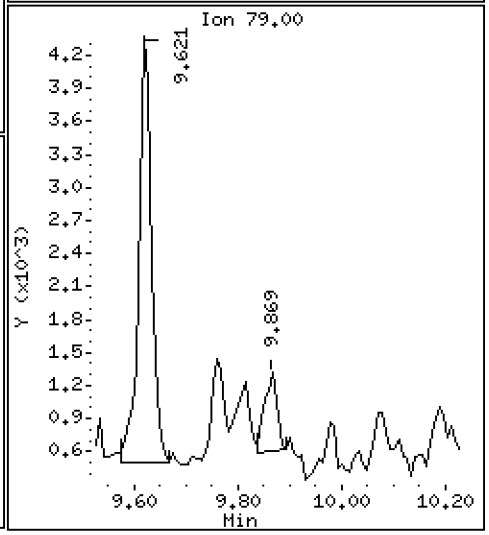












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212314.D

Date : 22-MAR-2023 01:30

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-05

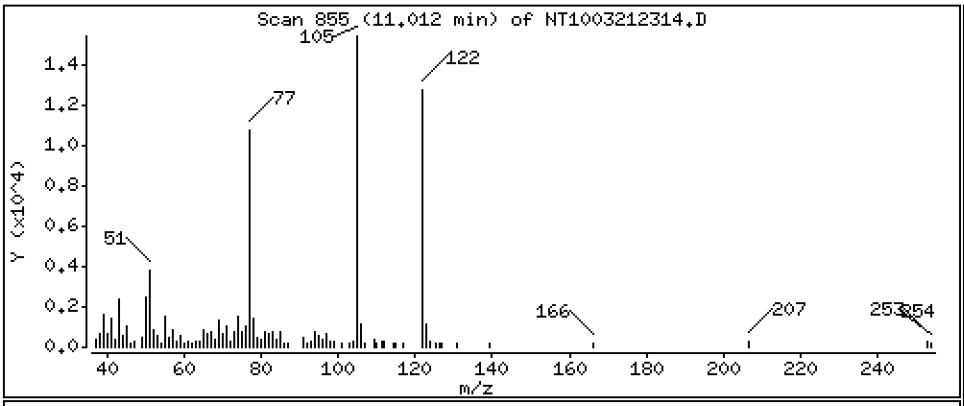
Operator: VTS

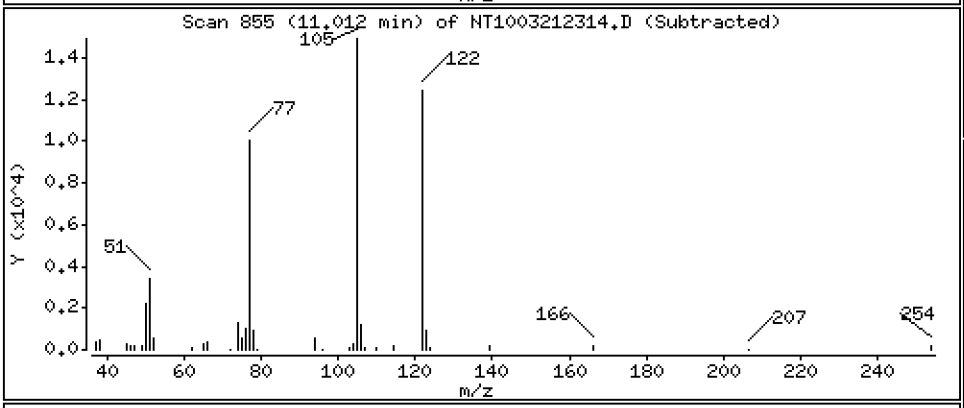
Column phase: ZB-5msi

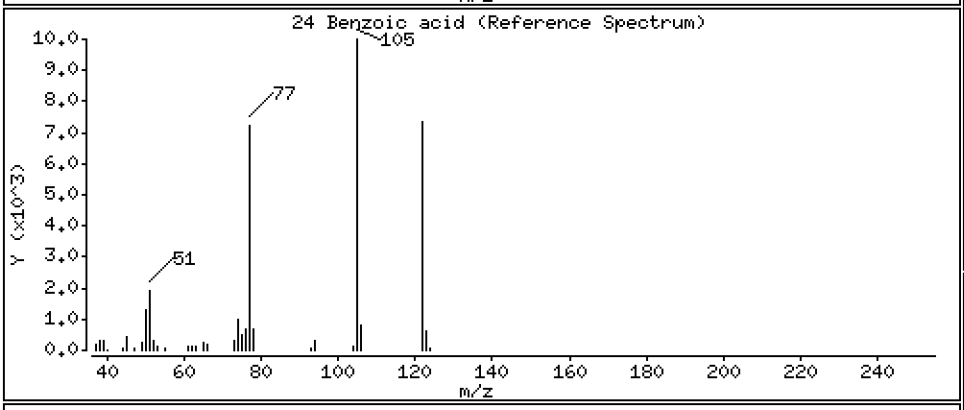
Column diameter: 0.25

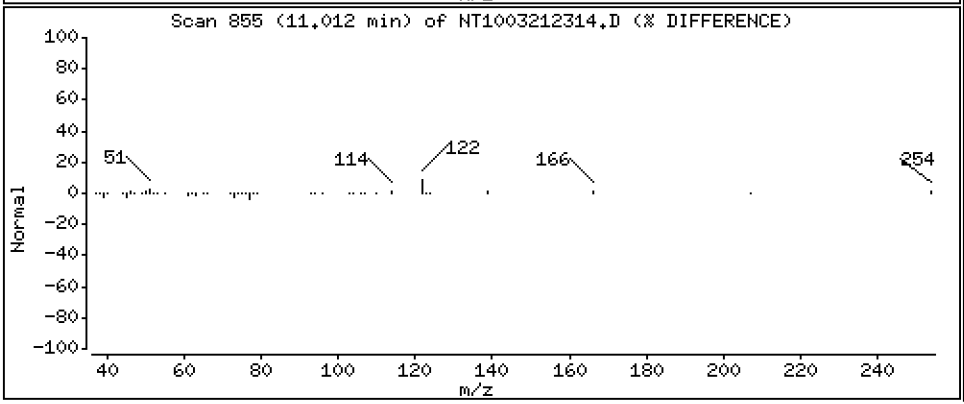
24 Benzoic acid

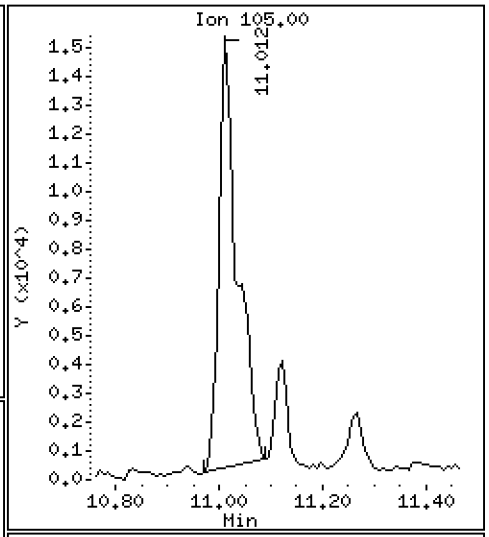
Concentration: 1.041 ug/mL

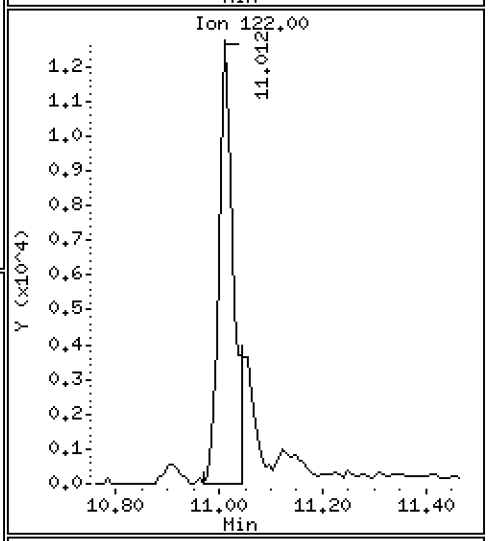


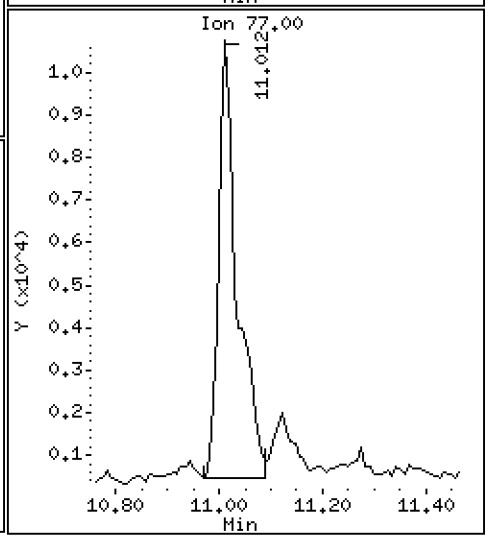












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212314.D

Date : 22-MAR-2023 01:30

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-05

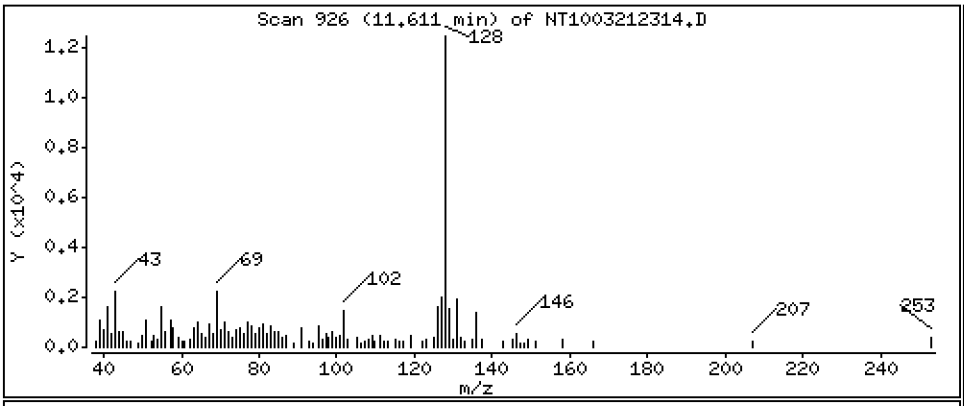
Operator: VTS

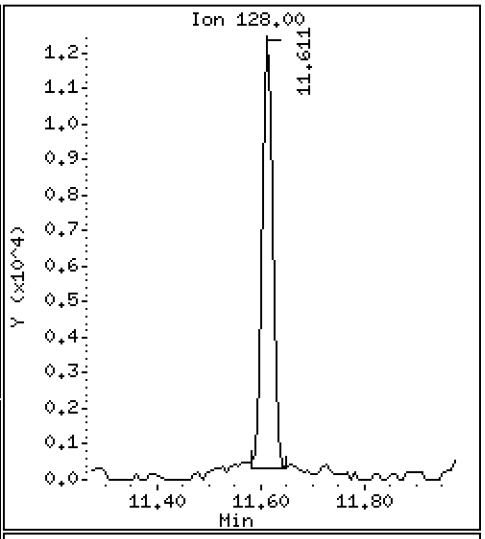
Column phase: ZB-5msi

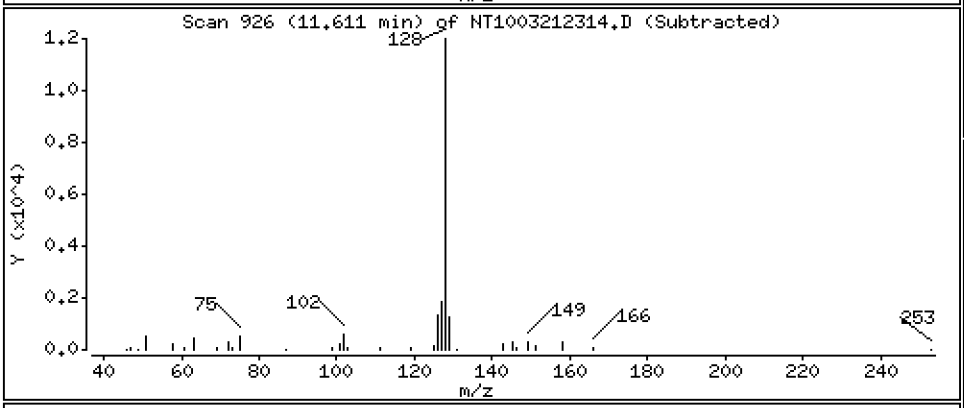
Column diameter: 0.25

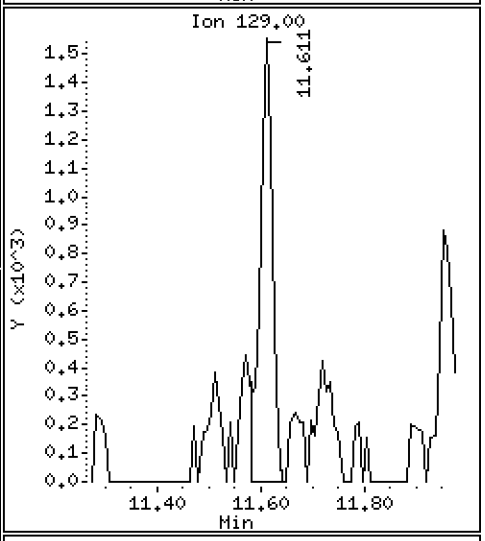
28 Naphthalene

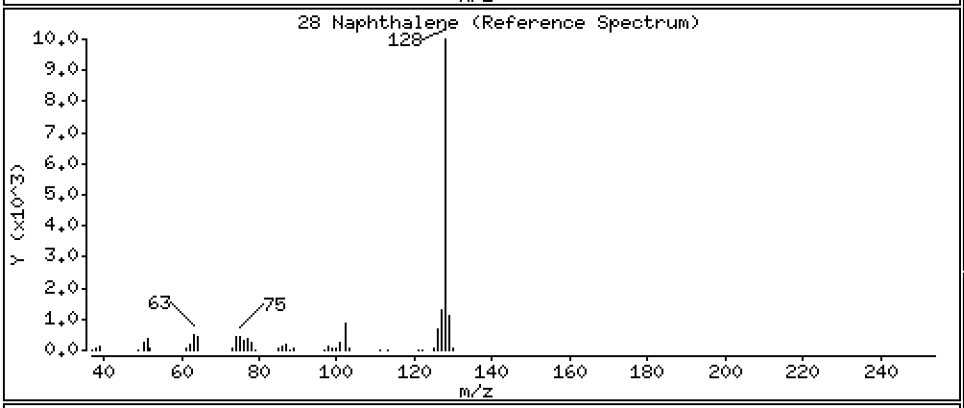
Concentration: 0.09778 ug/mL

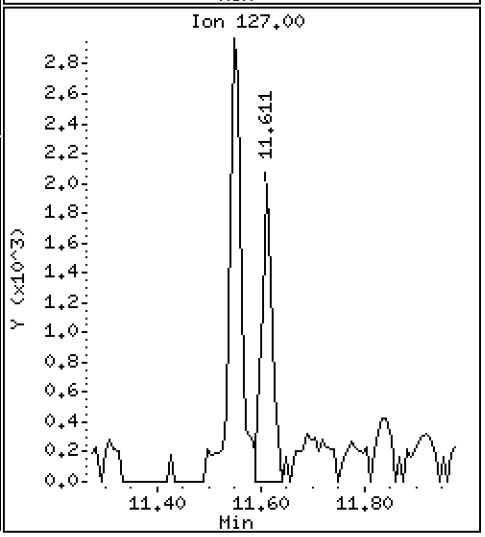


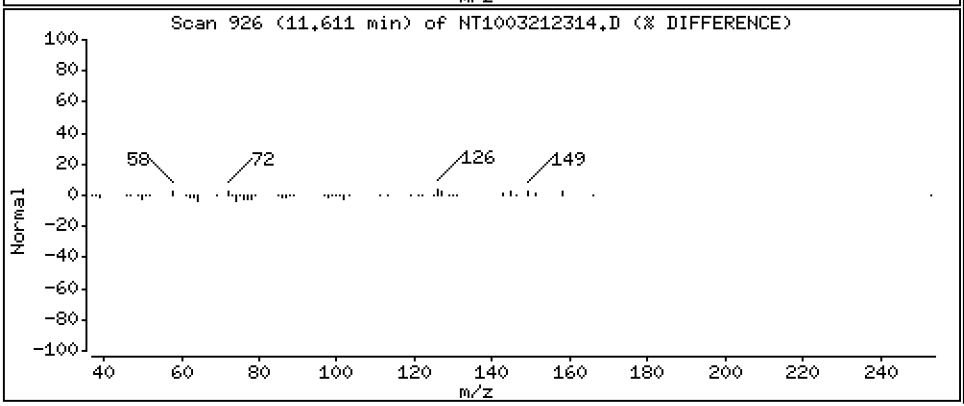












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212314.D

Date : 22-MAR-2023 01:30

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-05

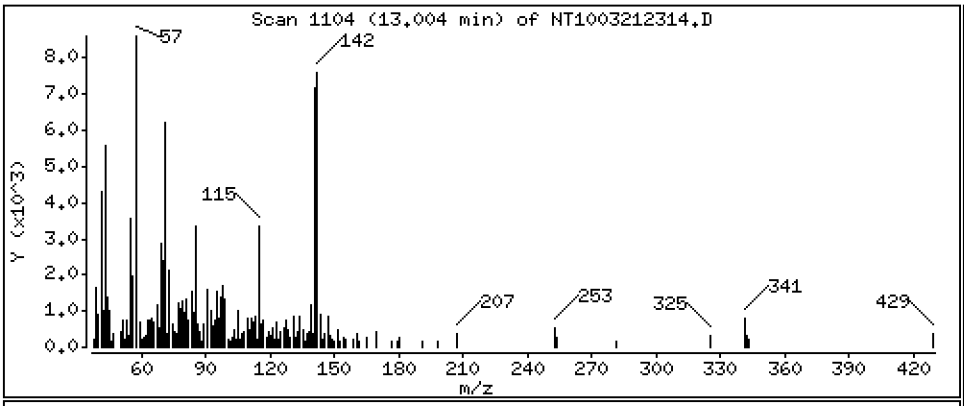
Operator: VTS

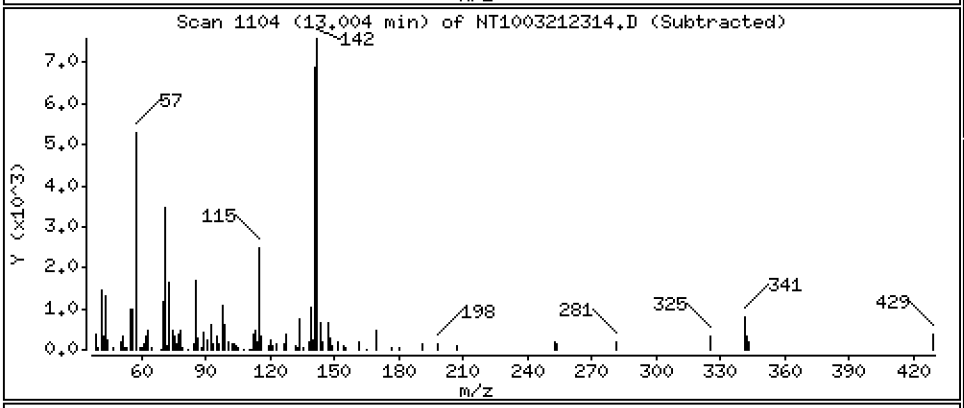
Column phase: ZB-5msi

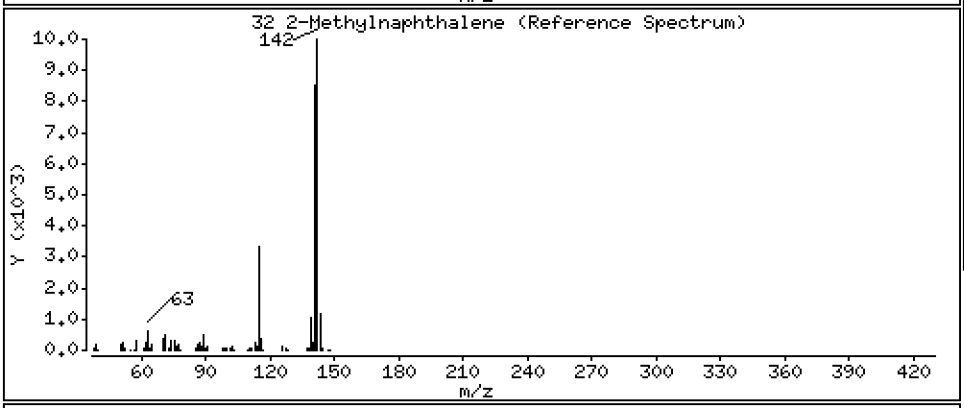
Column diameter: 0.25

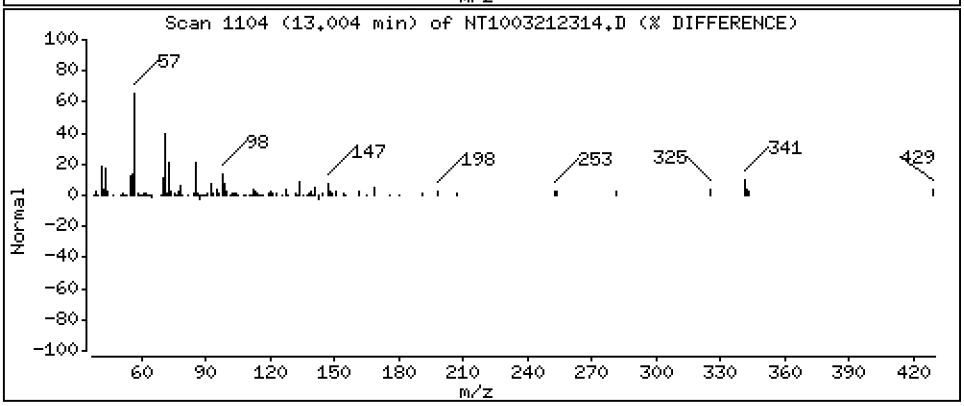
32 2-Methylnaphthalene

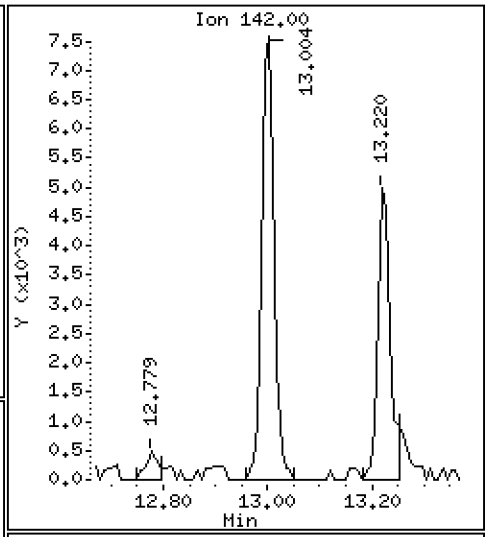
Concentration: 0.09640 ug/mL

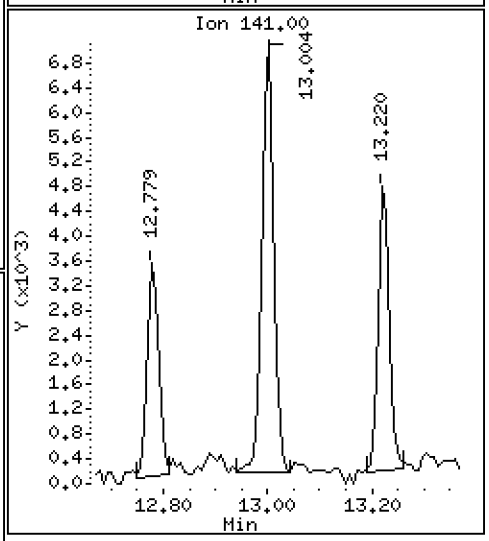












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212314.D

Date : 22-MAR-2023 01:30

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-05

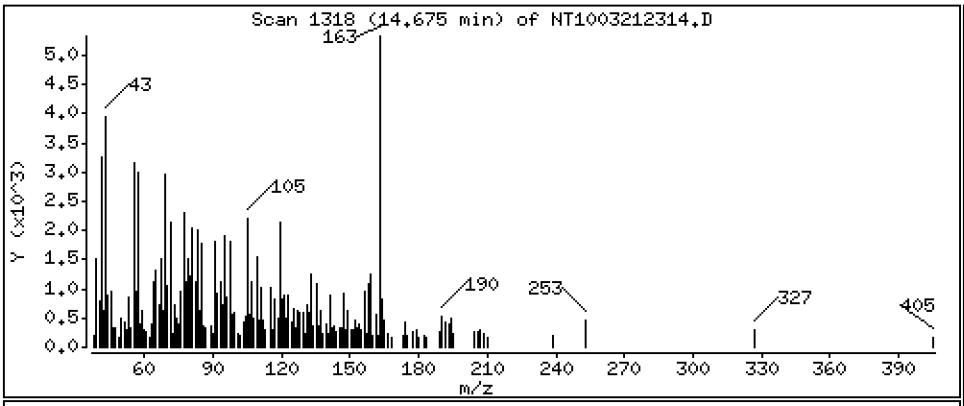
Operator: VTS

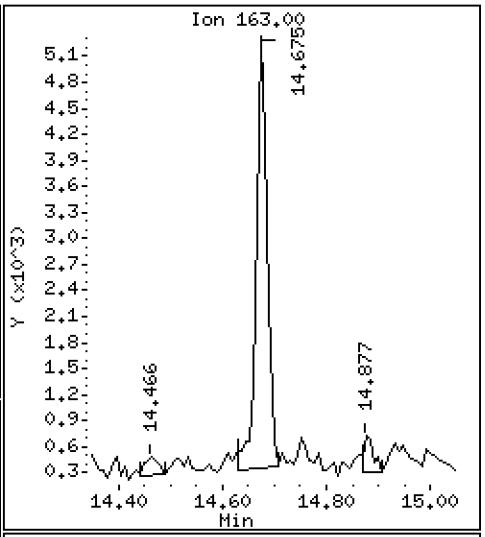
Column phase: ZB-5msi

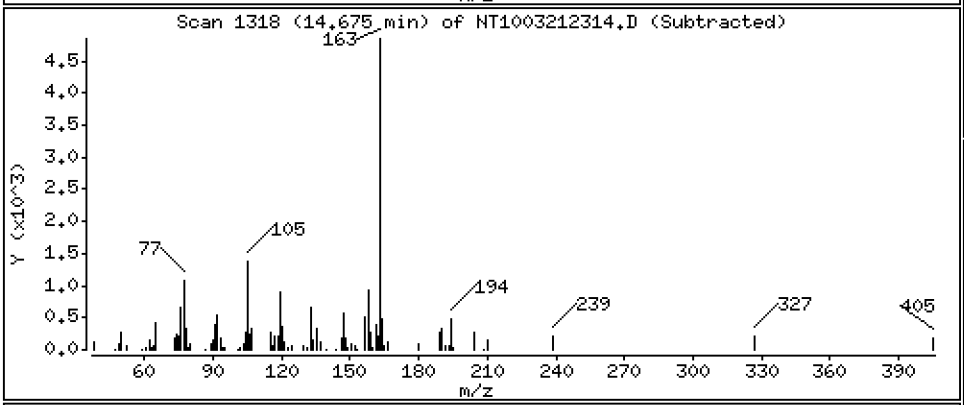
Column diameter: 0.25

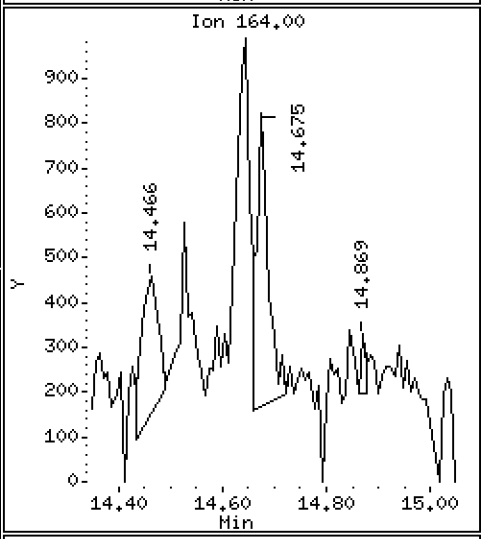
39 Dimethylphthalate

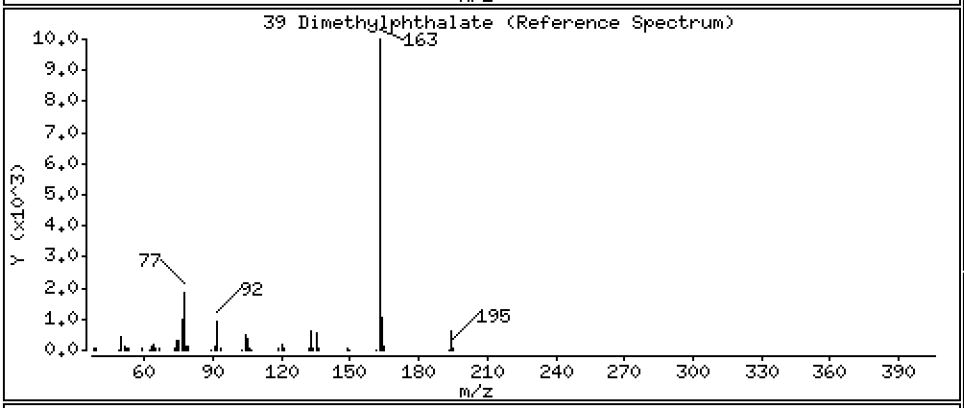
Concentration: 0.05950 ug/mL

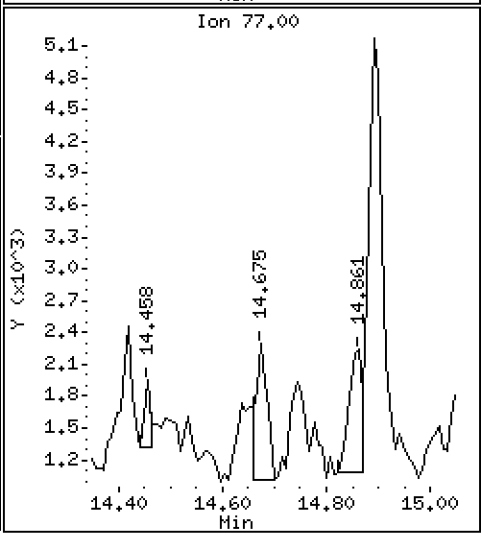


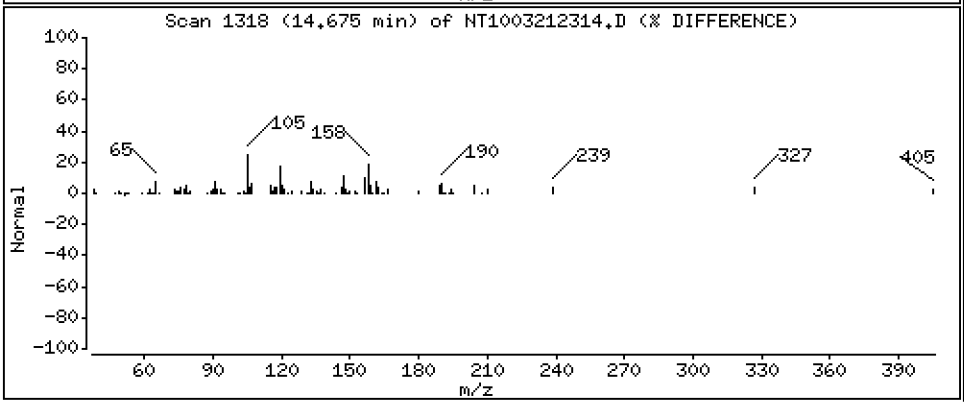












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212314.D

Date : 22-MAR-2023 01:30

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-05

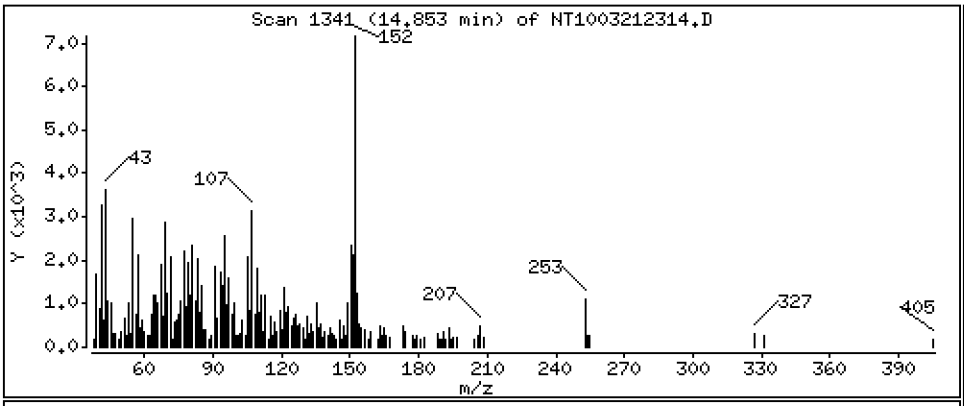
Operator: VTS

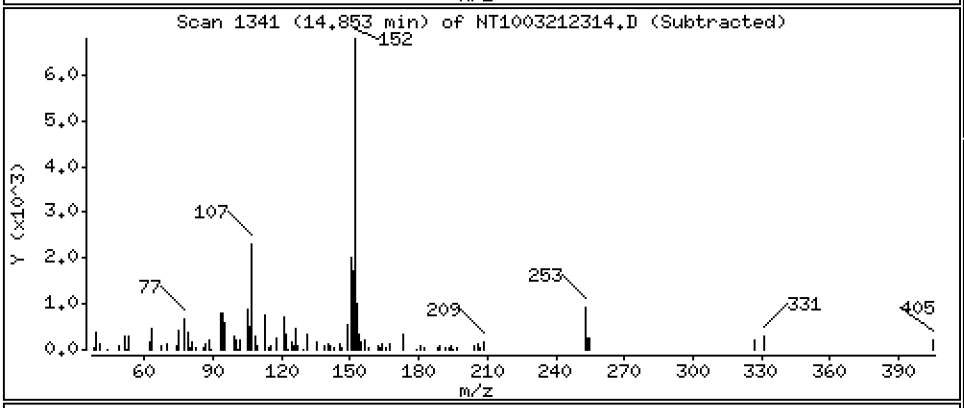
Column phase: ZB-5msi

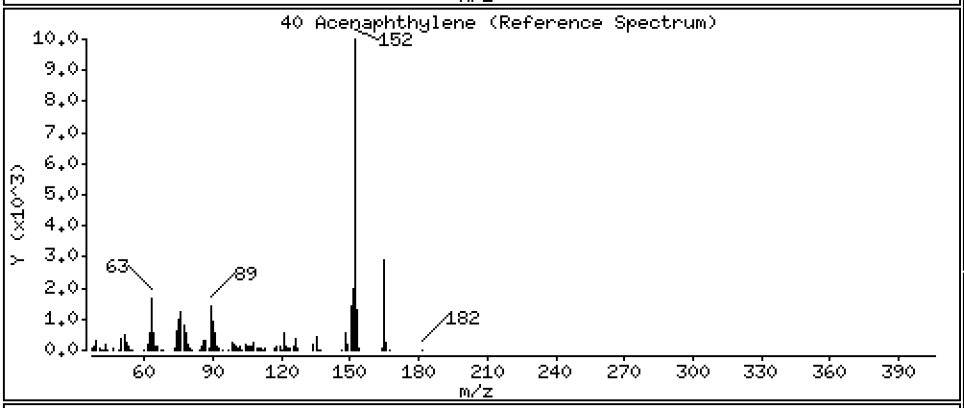
Column diameter: 0.25

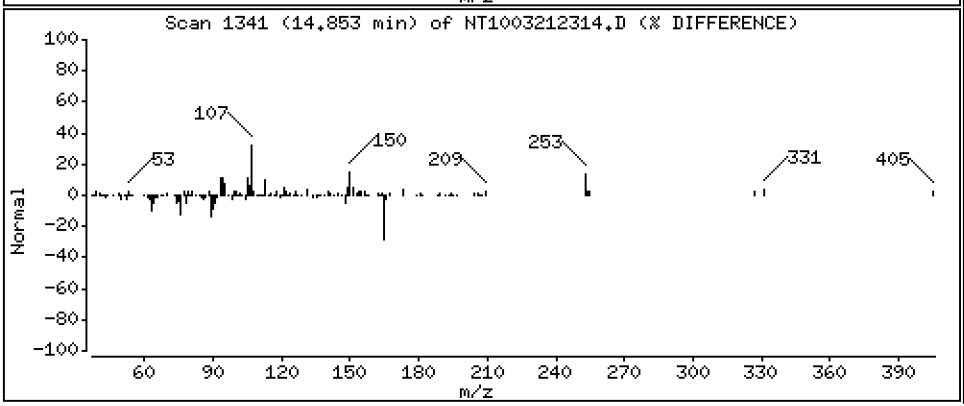
40 Acenaphthylene

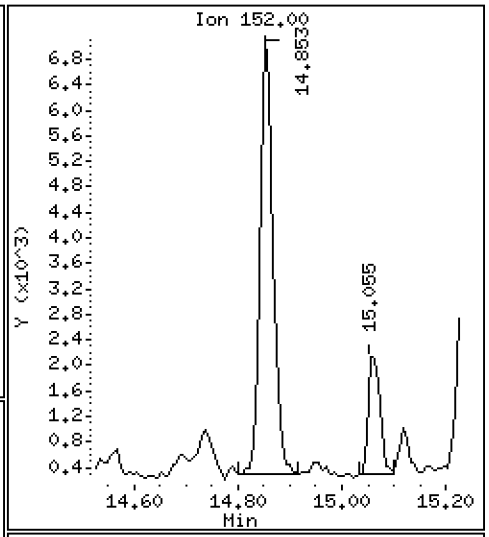
Concentration: 0.06257 ug/mL

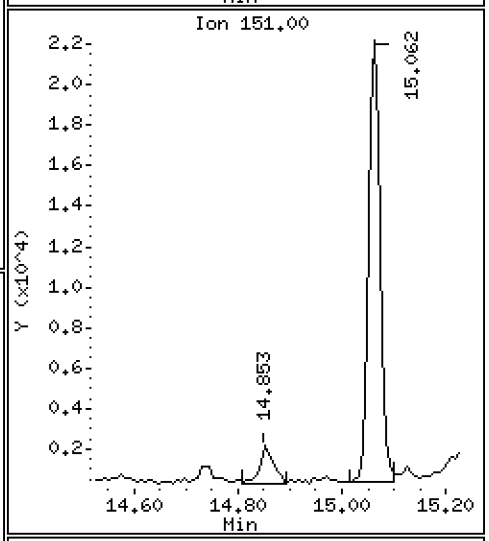


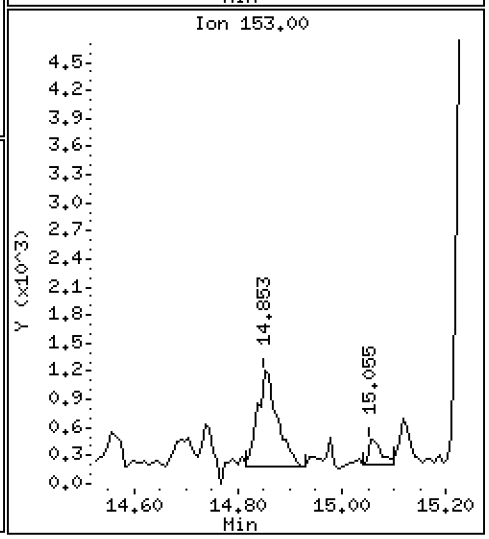












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212314.D

Date : 22-MAR-2023 01:30

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-05

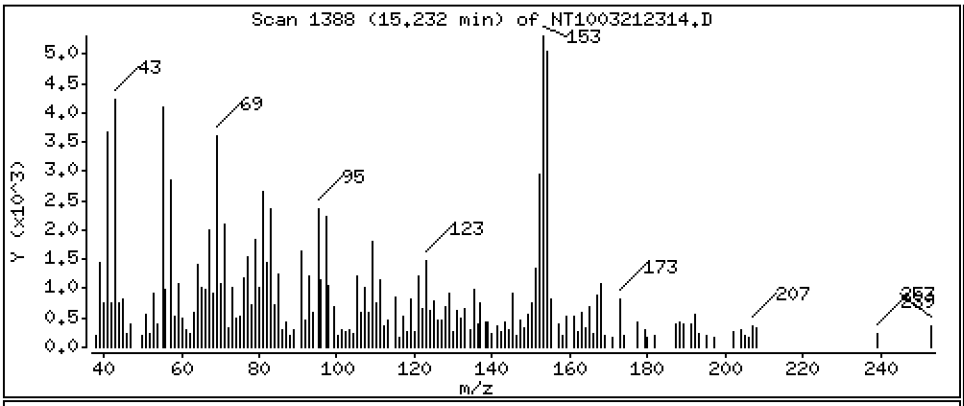
Operator: VTS

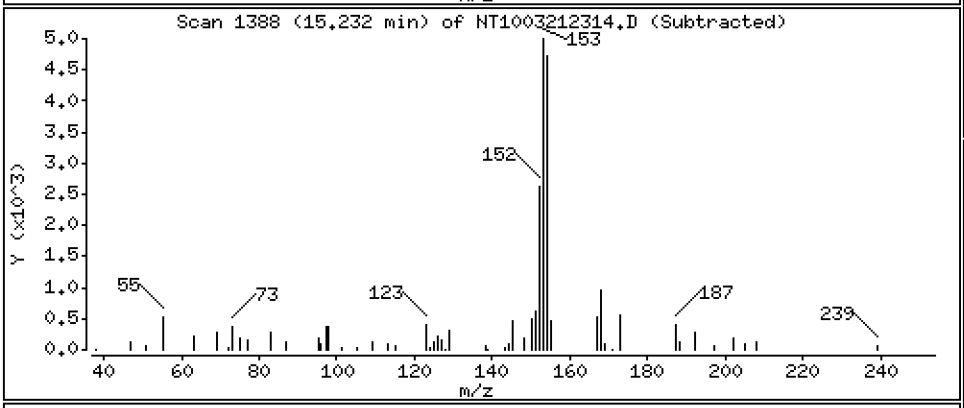
Column phase: ZB-5msi

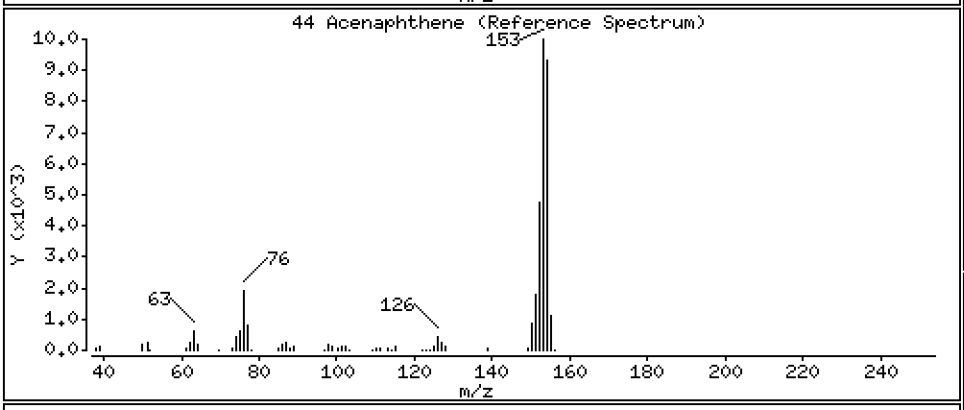
Column diameter: 0.25

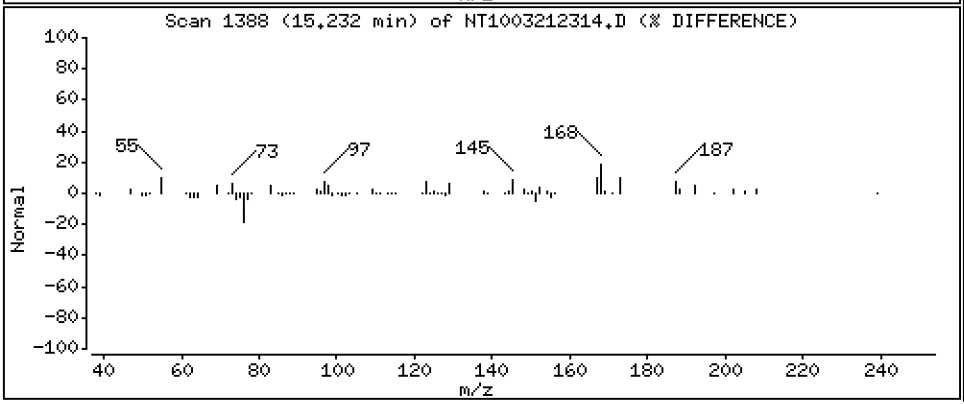
44 Acenaphthene

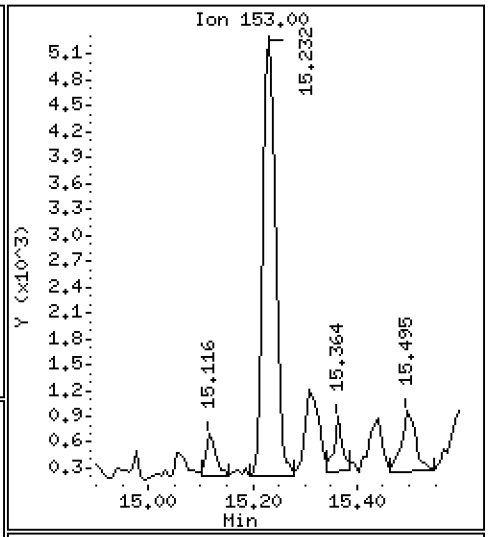
Concentration: 0.07168 ug/mL

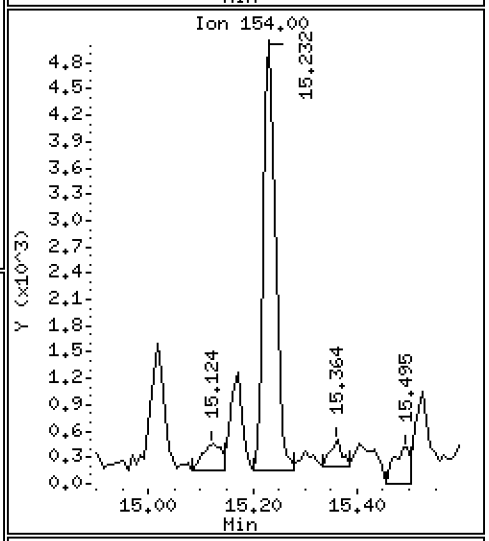


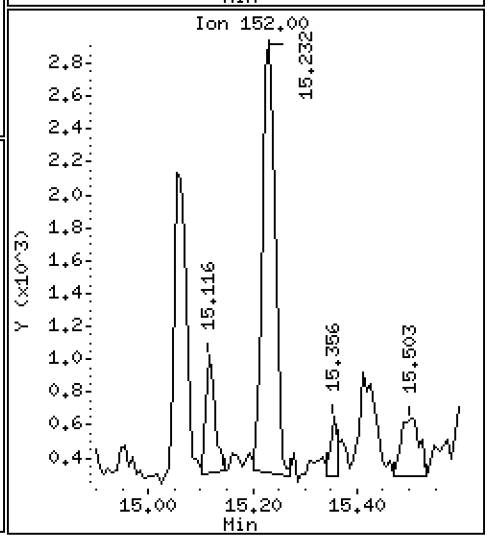












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Date : 22-MAR-2023 01:30

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-05

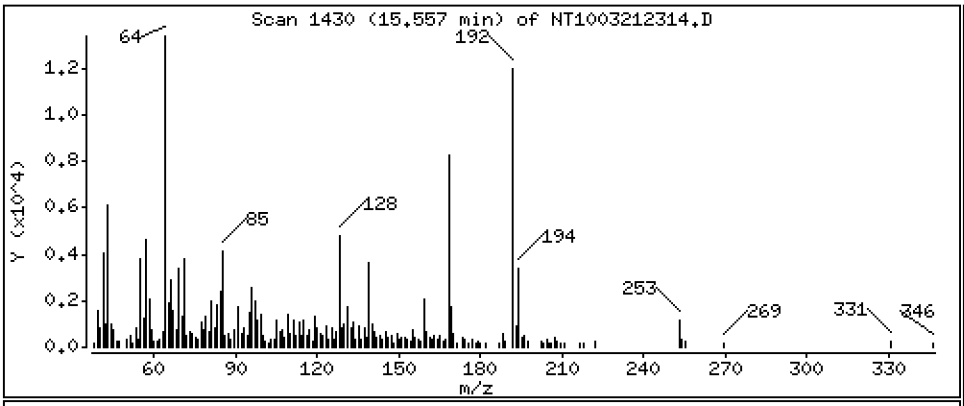
Operator: VTS

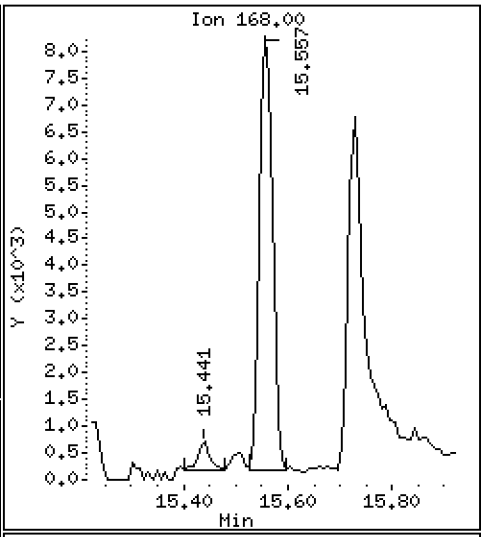
Column phase: ZB-5msi

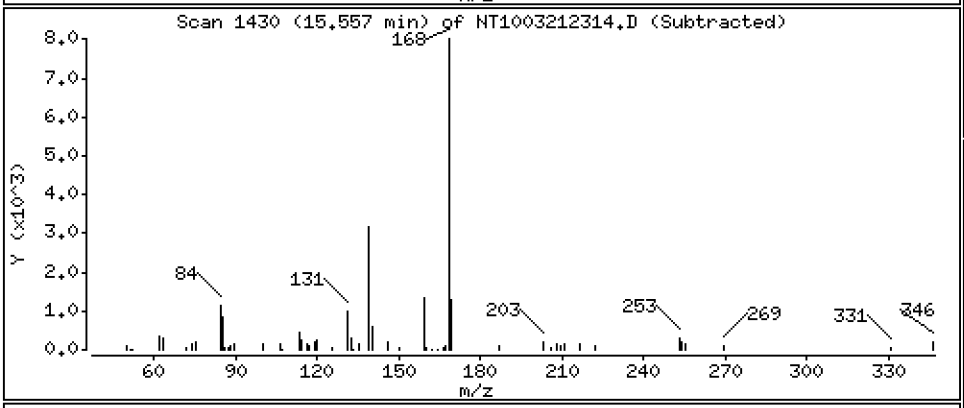
Column diameter: 0.25

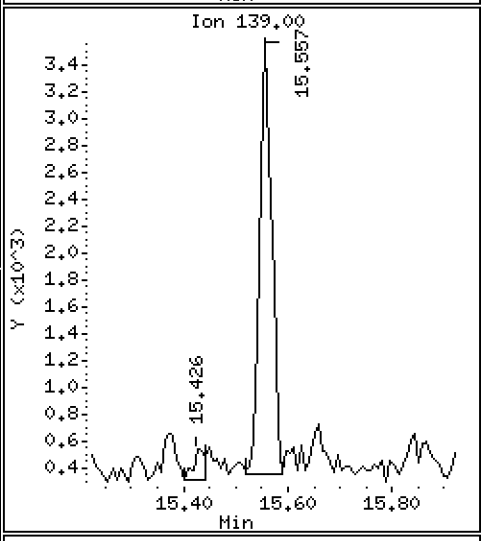
46 Dibenzofuran

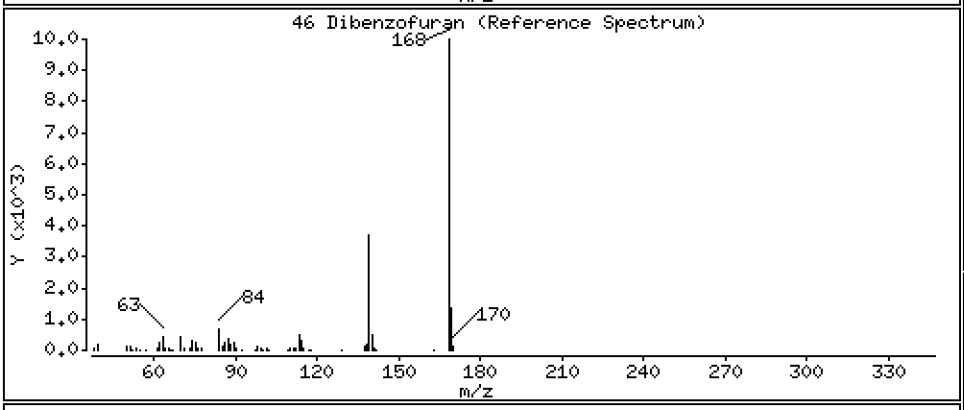
Concentration: 0.08053 ug/mL

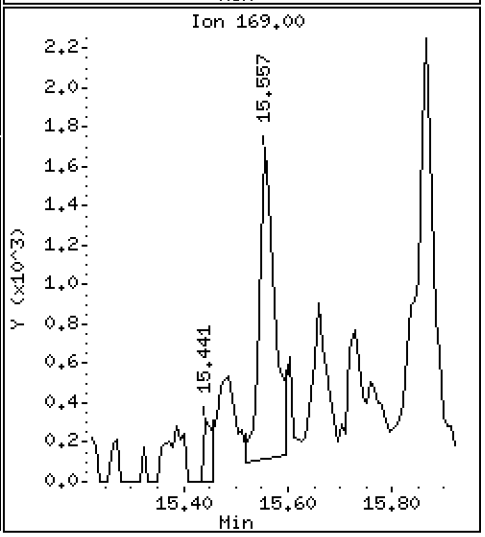


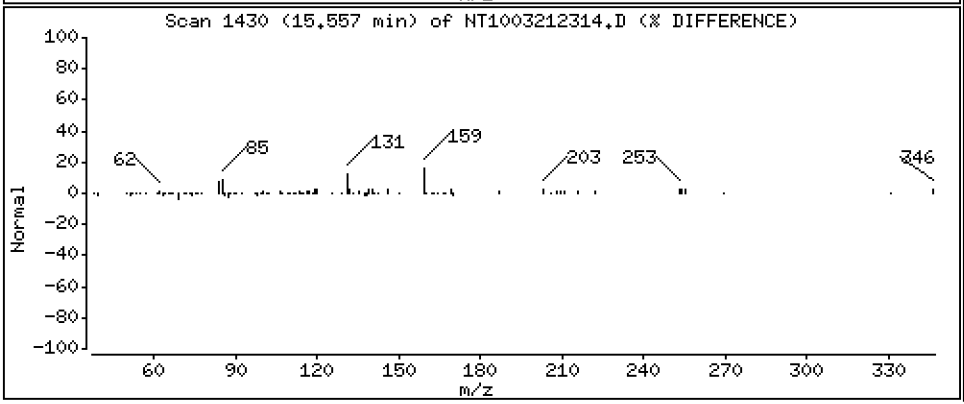












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Date : 22-MAR-2023 01:30

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-05

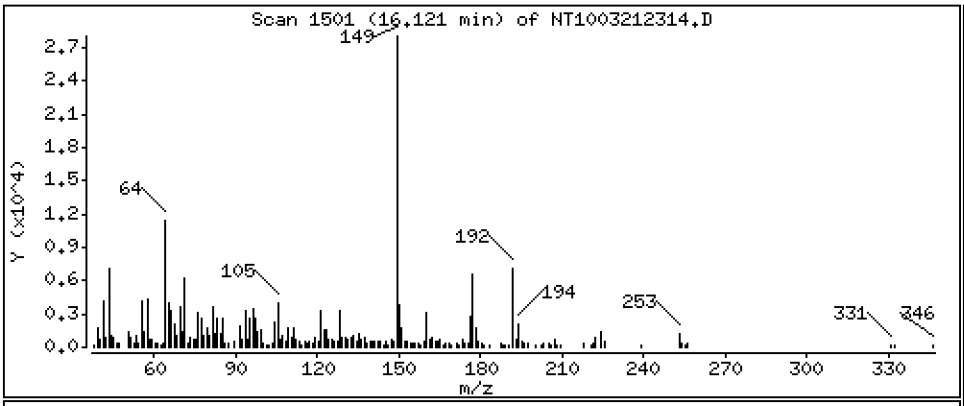
Operator: VTS

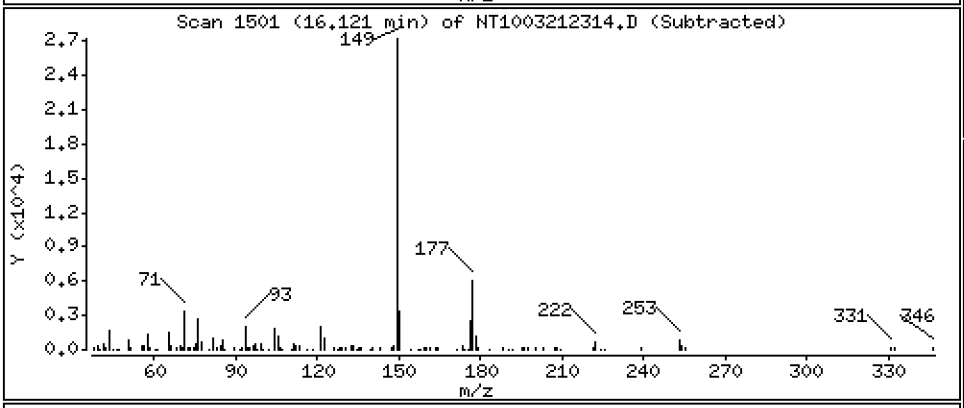
Column phase: ZB-5msi

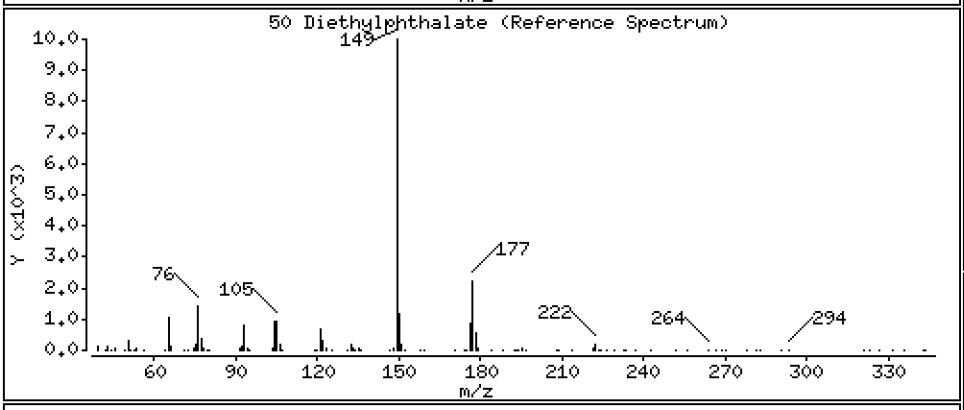
Column diameter: 0.25

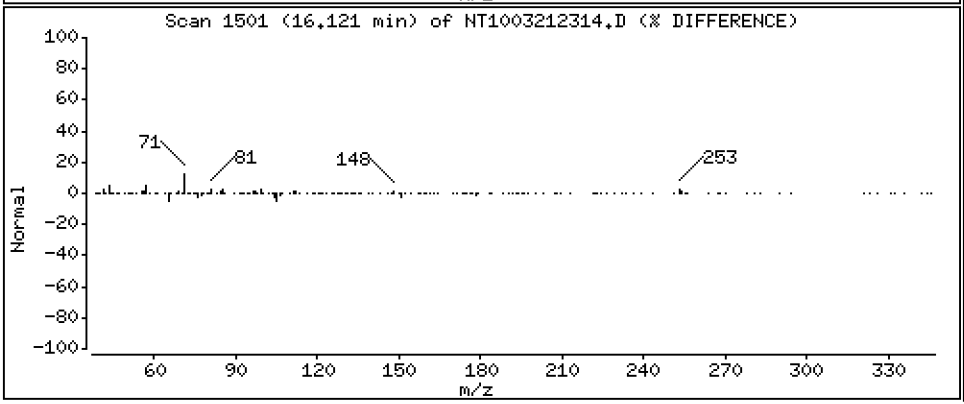
50 Diethylphthalate

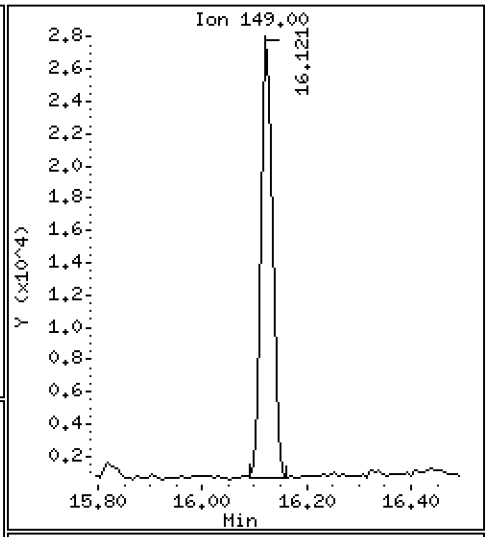
Concentration: 0.3345 ug/mL

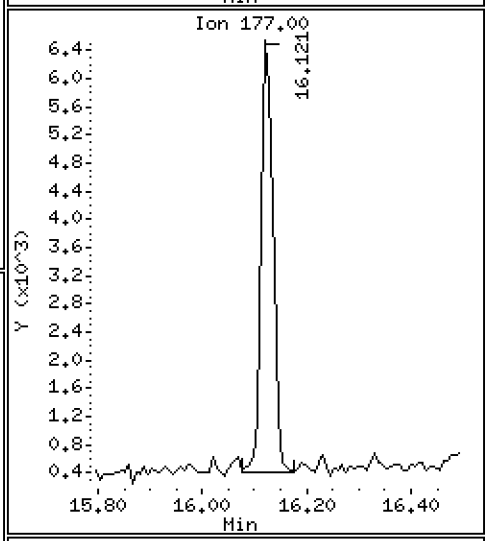


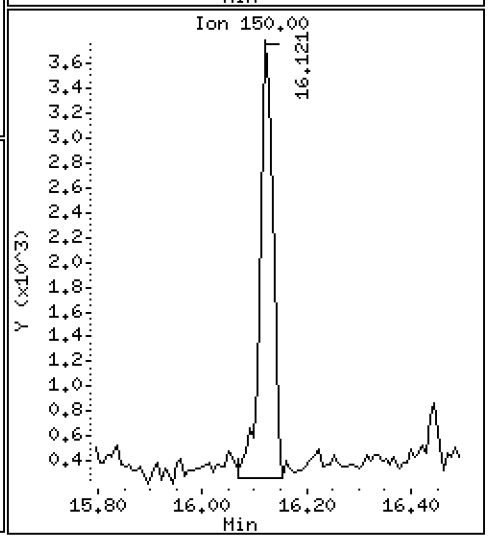












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212314.D

Date : 22-MAR-2023 01:30

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-05

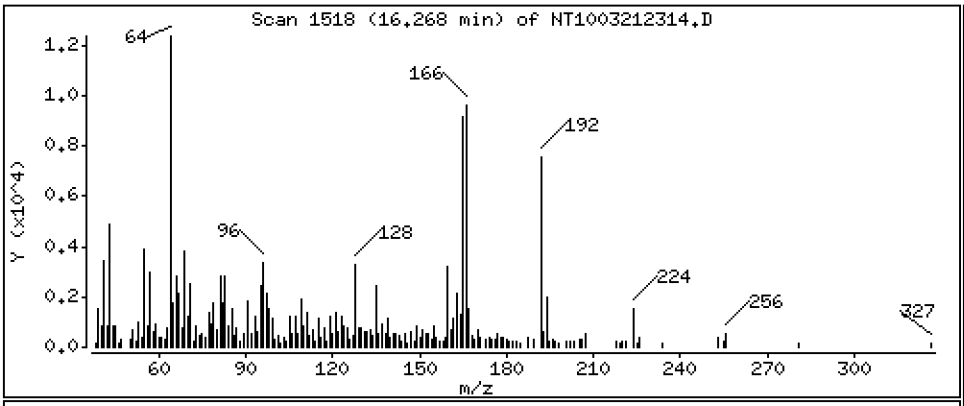
Operator: VTS

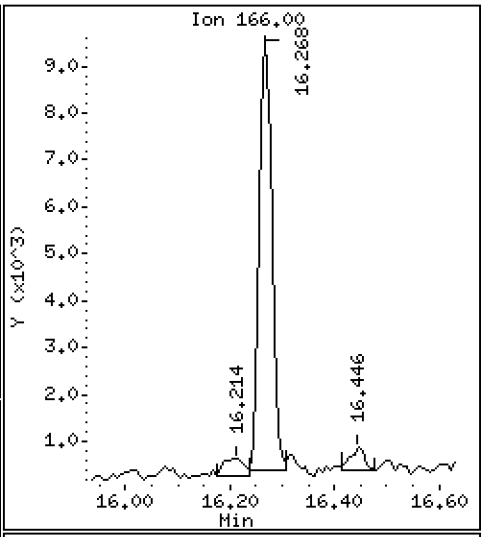
Column phase: ZB-5msi

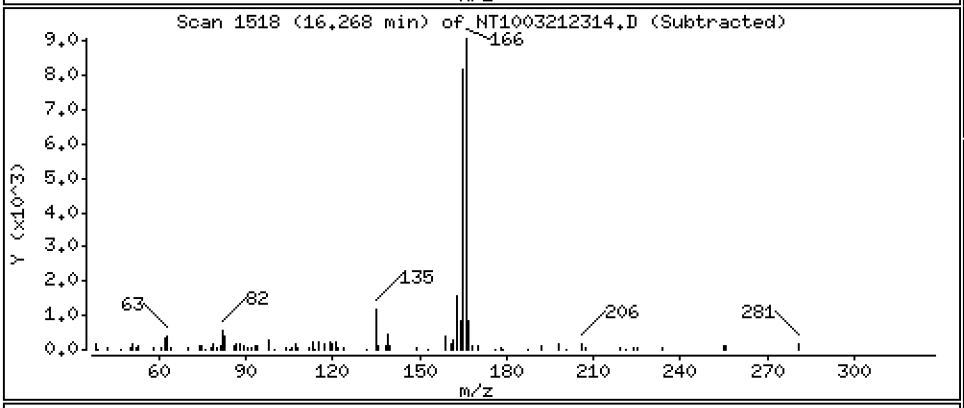
Column diameter: 0.25

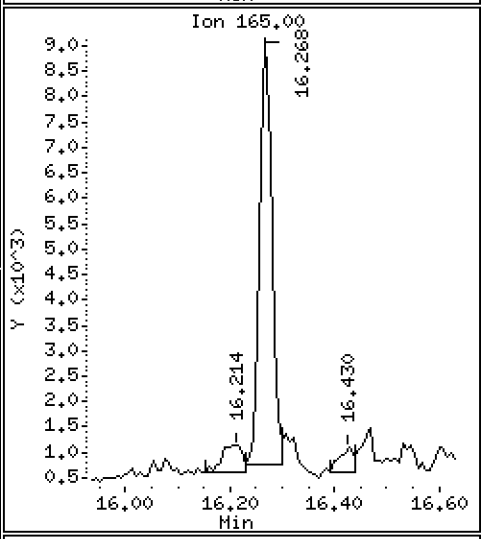
49 Fluorene

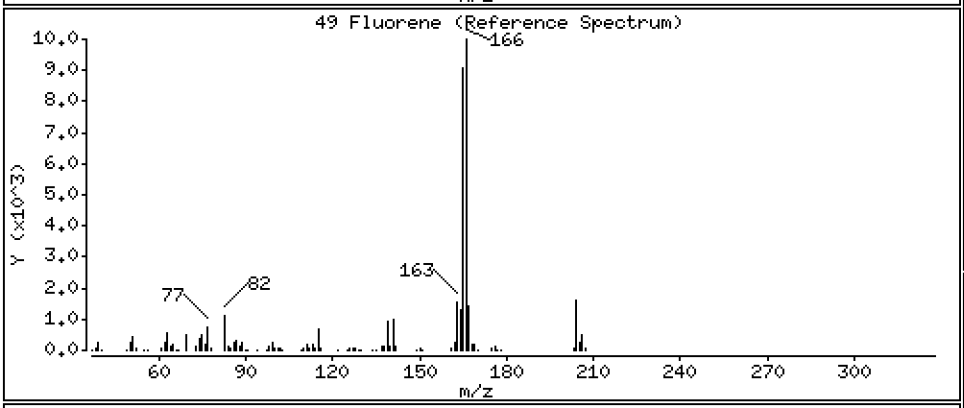
Concentration: 0.1079 ug/mL

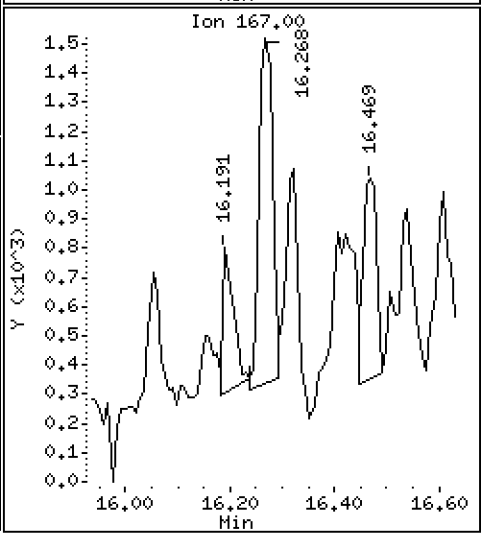


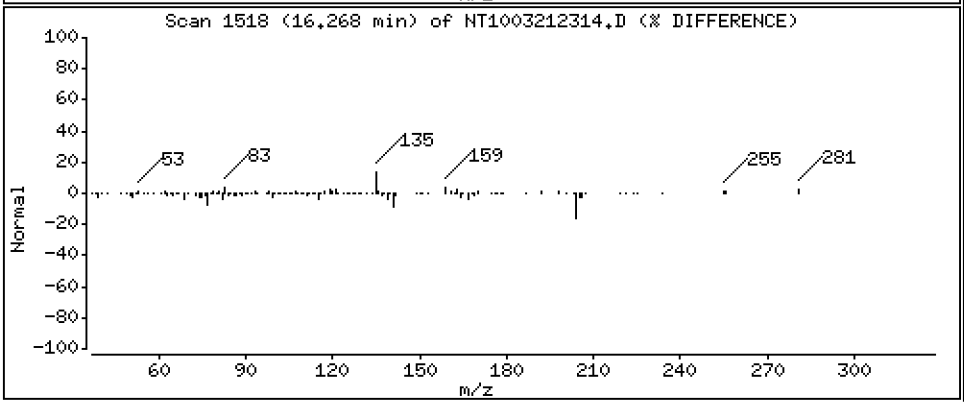












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212314.D

Date : 22-MAR-2023 01:30

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-05

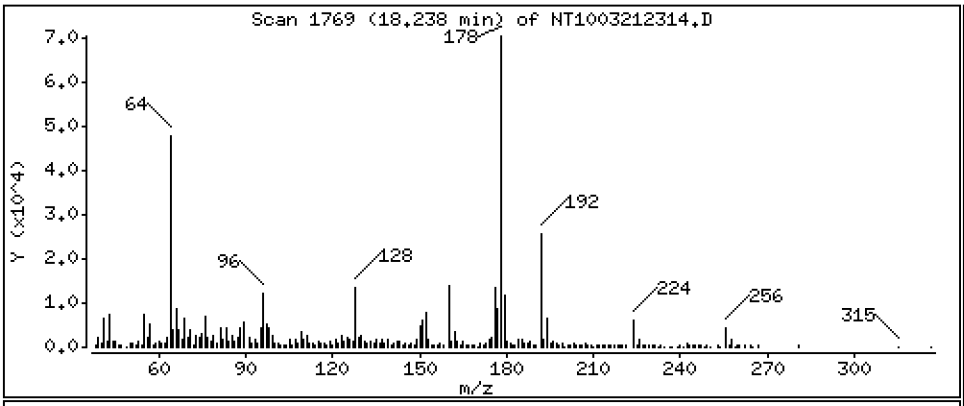
Operator: VTS

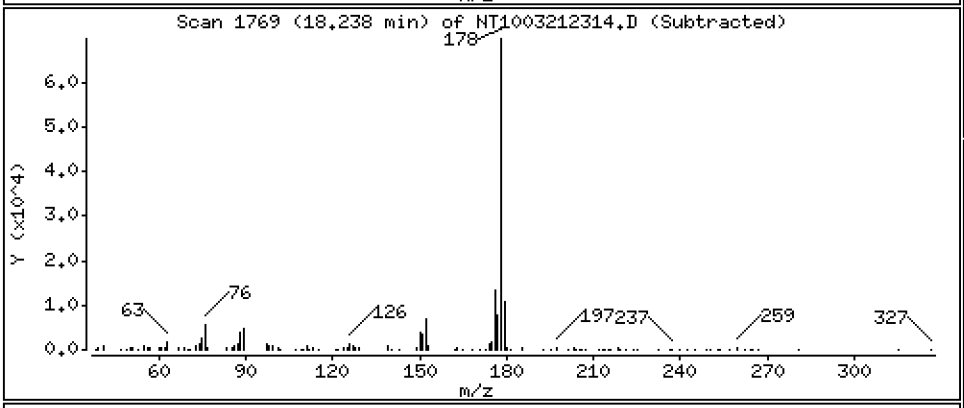
Column phase: ZB-5msi

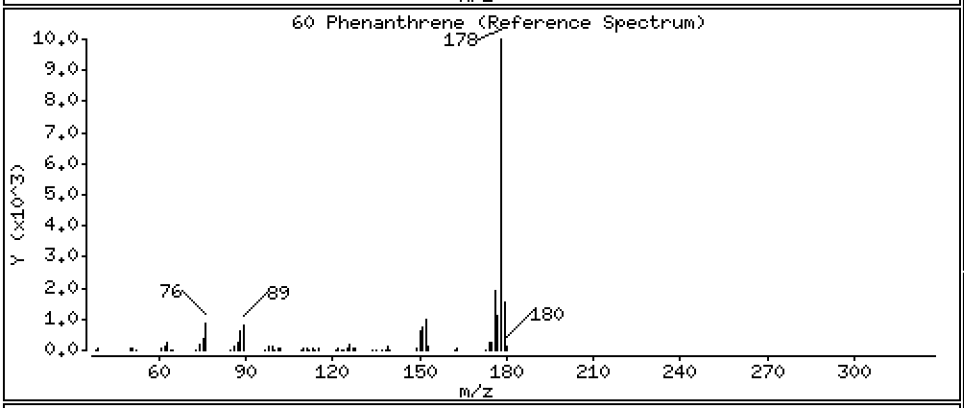
Column diameter: 0.25

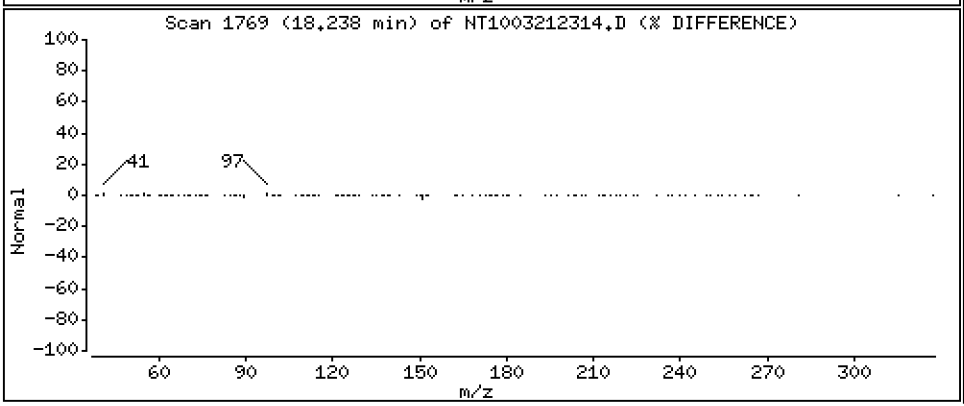
60 Phenanthrene

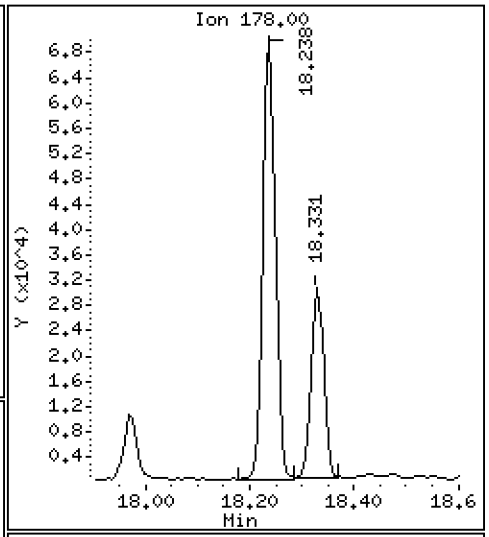
Concentration: 0.5869 ug/mL

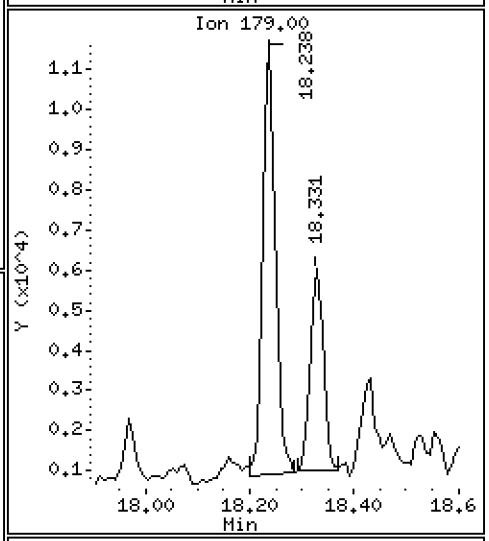


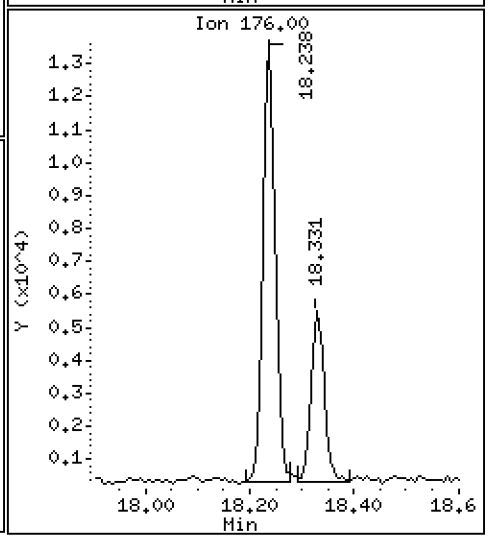












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Date : 22-MAR-2023 01:30

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-05

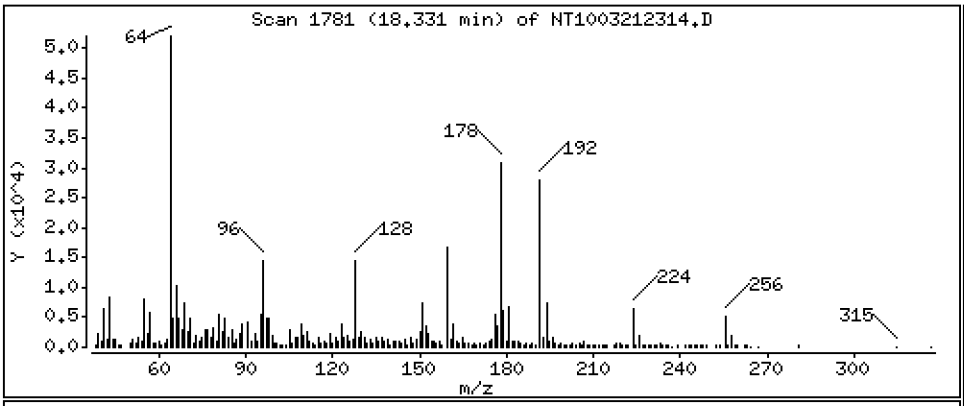
Operator: VTS

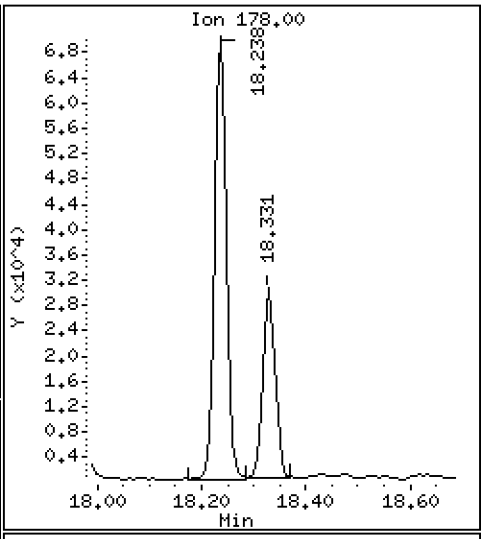
Column phase: ZB-5msi

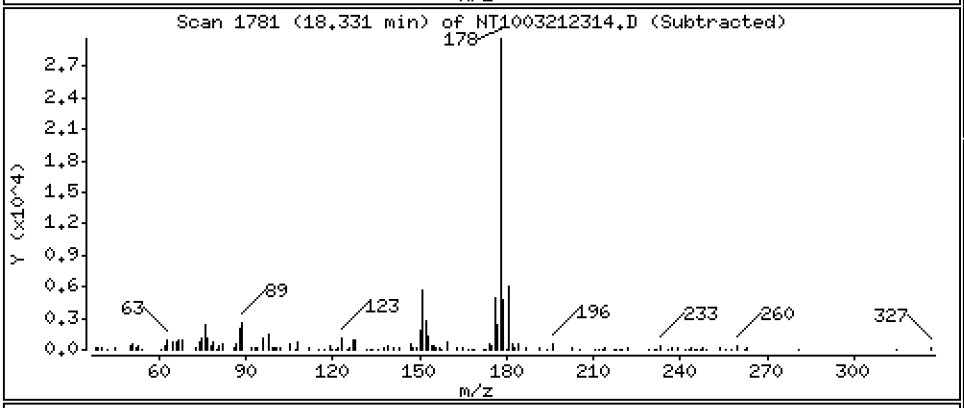
Column diameter: 0.25

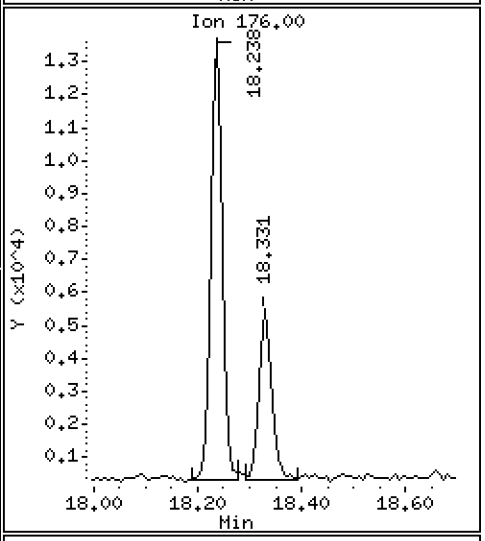
61 Anthracene

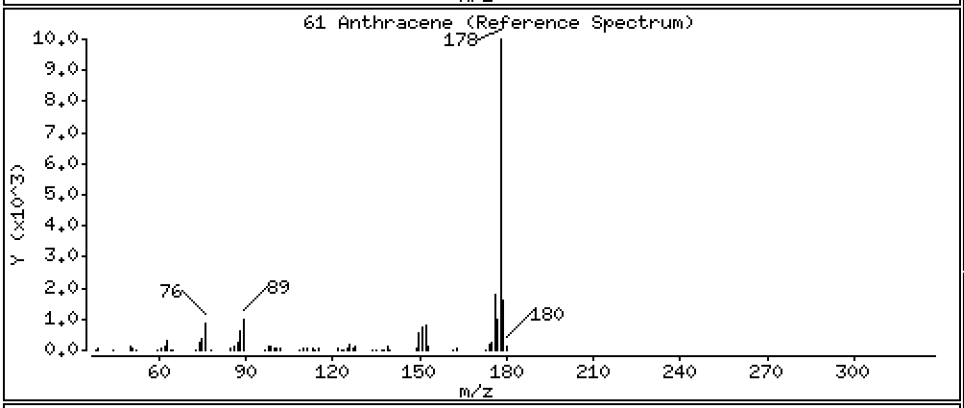
Concentration: 0.2531 ug/mL

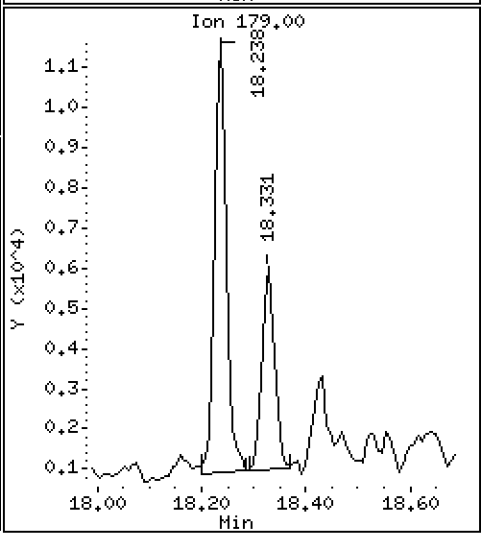


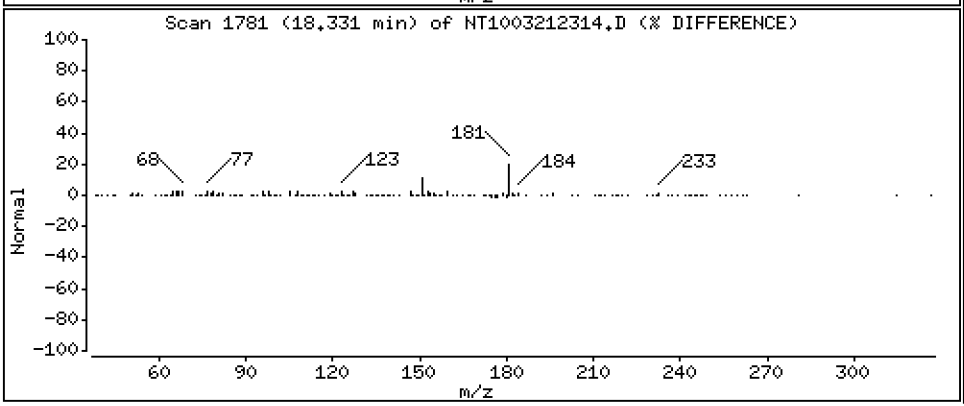












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212314.D

Date : 22-MAR-2023 01:30

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-05

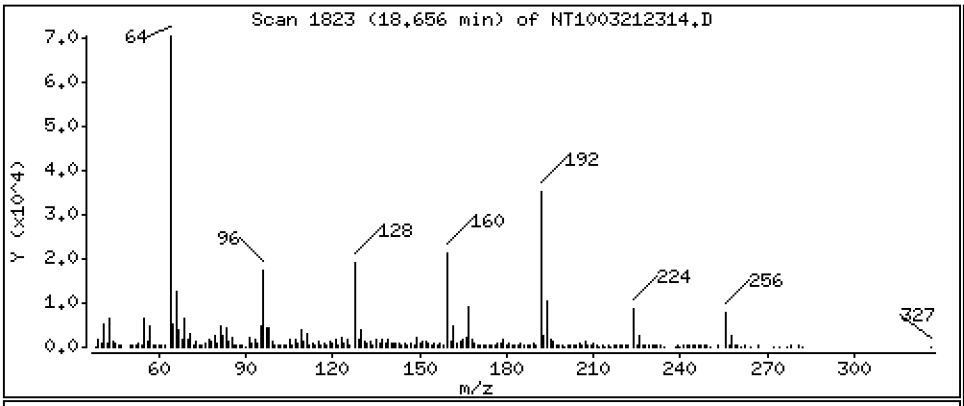
Operator: VTS

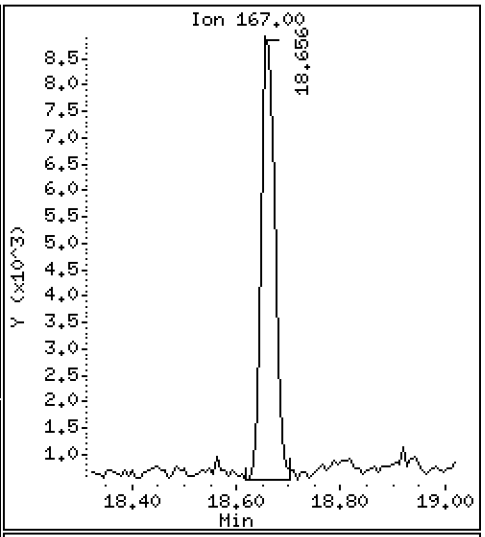
Column phase: ZB-5msi

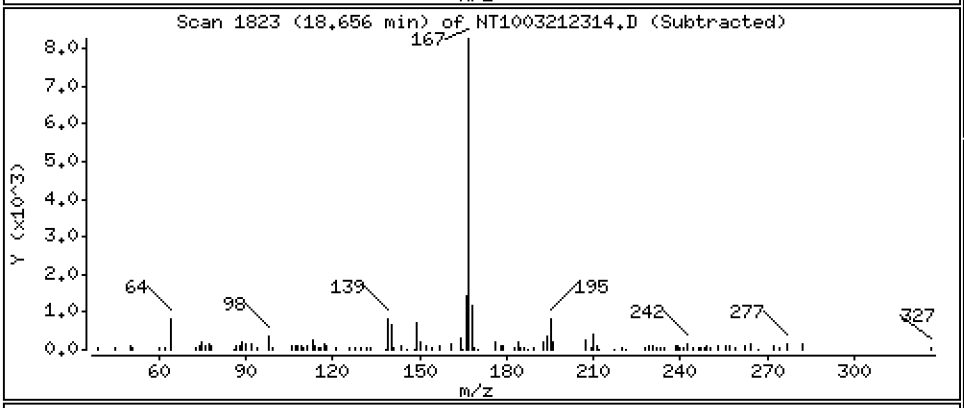
Column diameter: 0.25

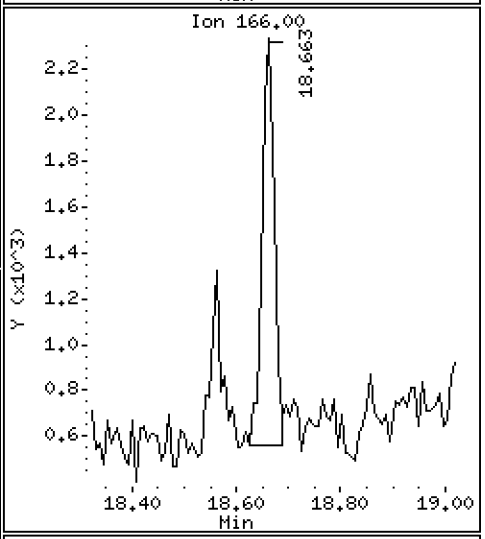
62 Carbazole

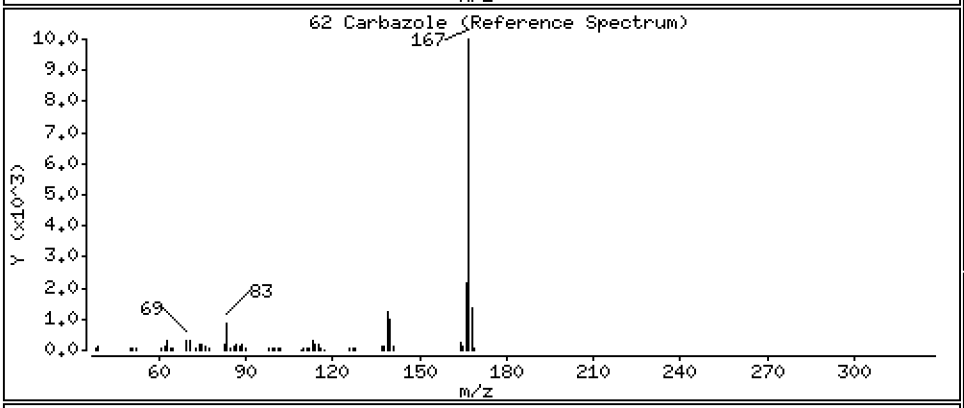
Concentration: 0.08856 ug/mL

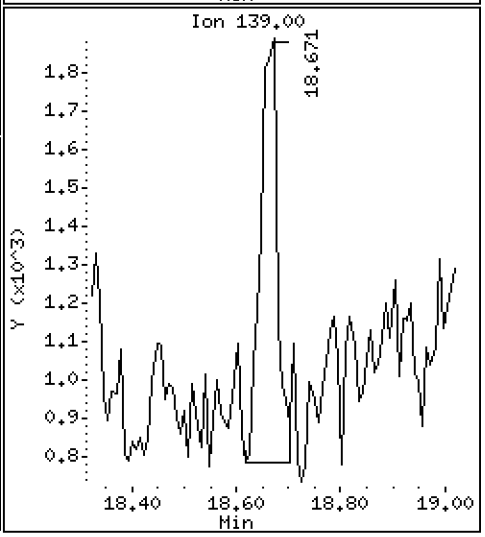


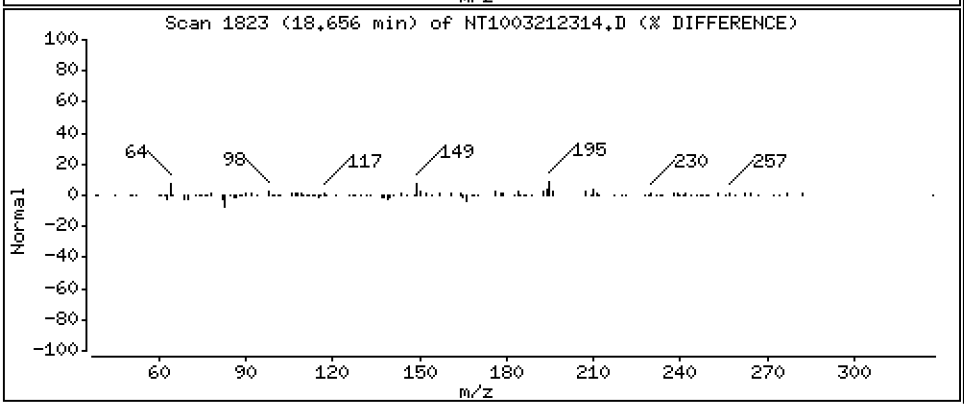












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Date : 22-MAR-2023 01:30

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-05

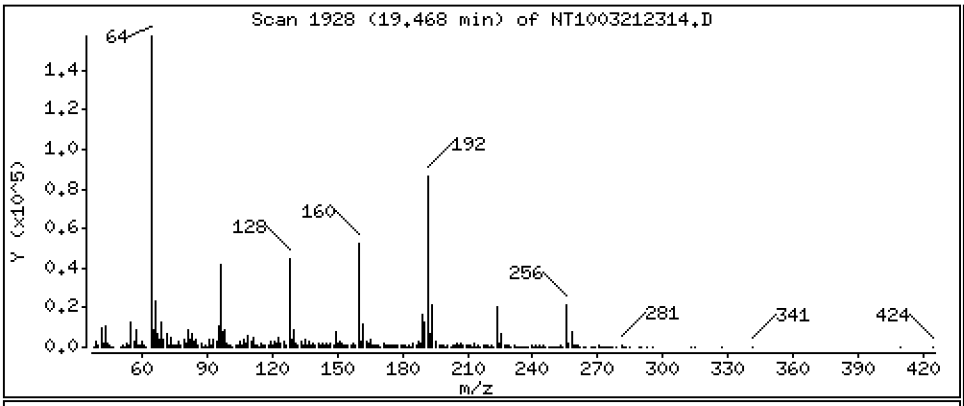
Operator: VTS

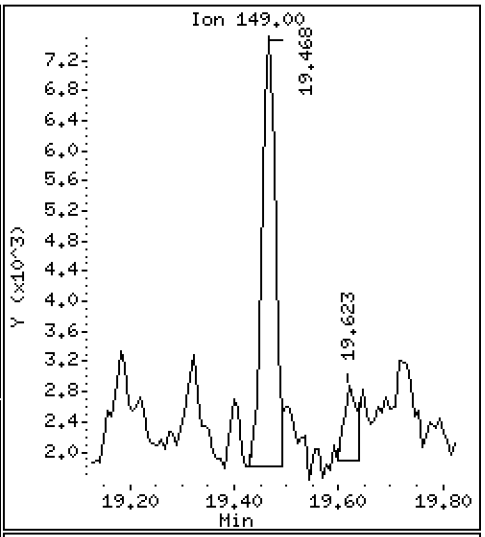
Column phase: ZB-5msi

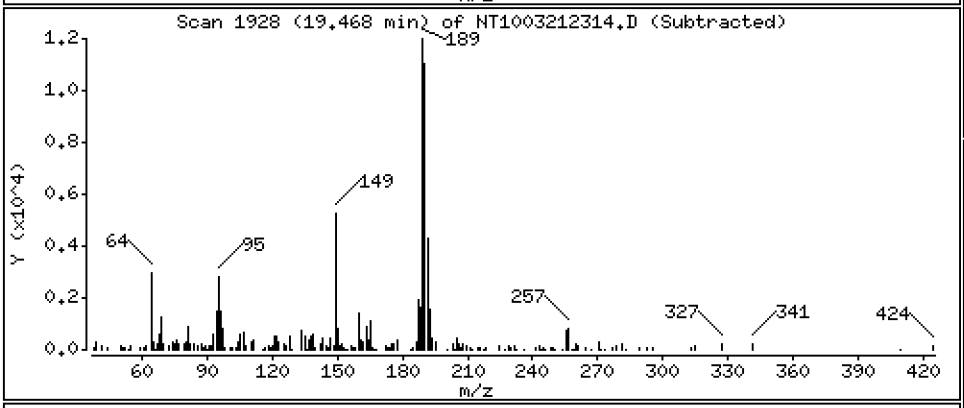
Column diameter: 0.25

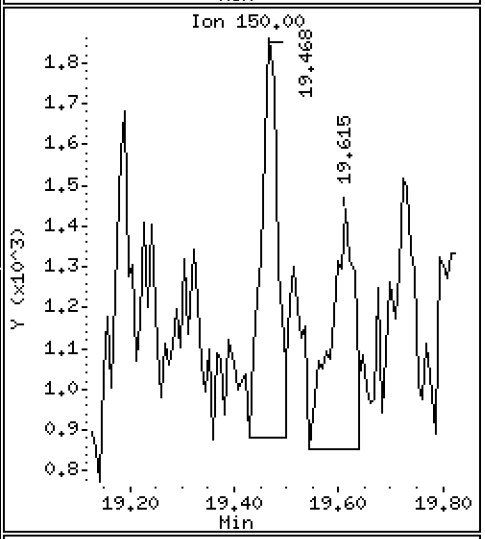
63 Di-n-butylphthalate

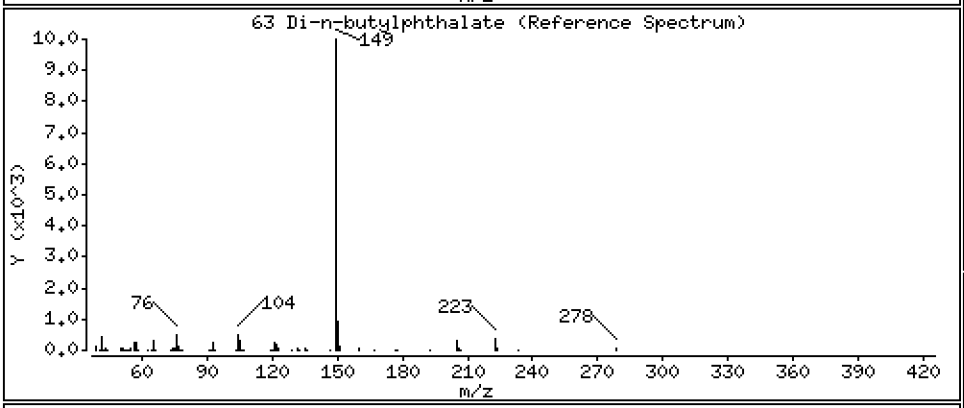
Concentration: 0.04321 ug/mL

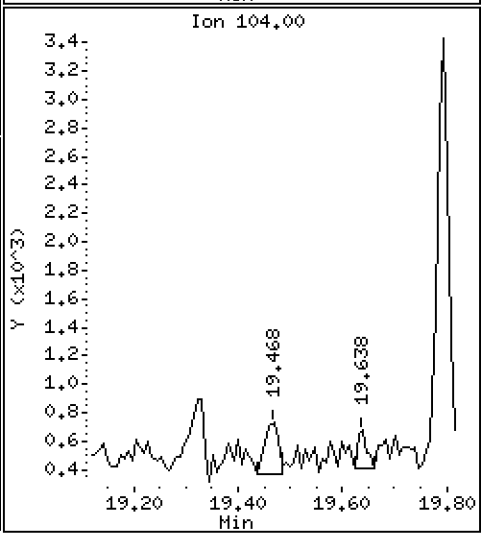


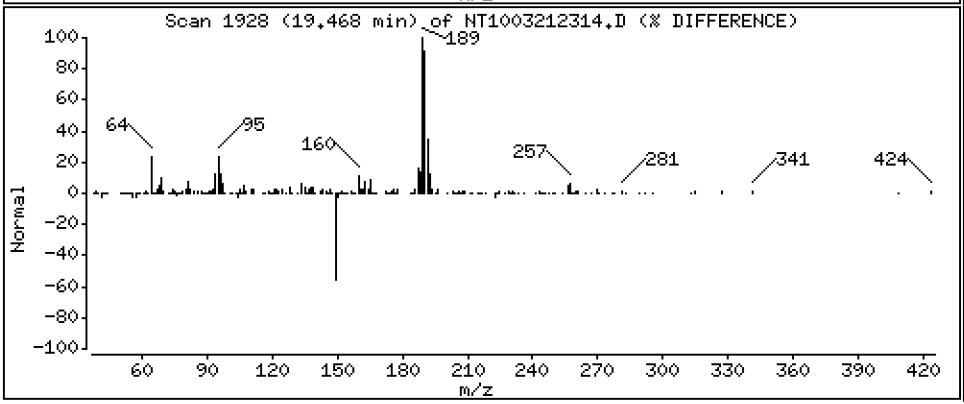












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Date : 22-MAR-2023 01:30

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-05

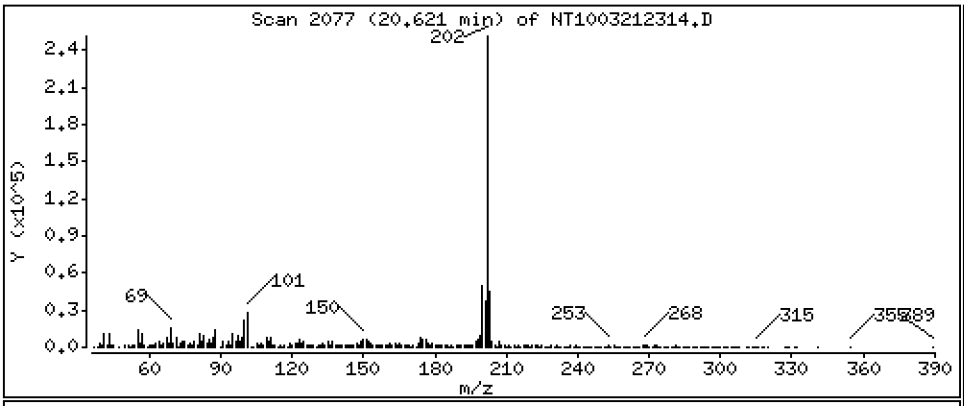
Operator: VTS

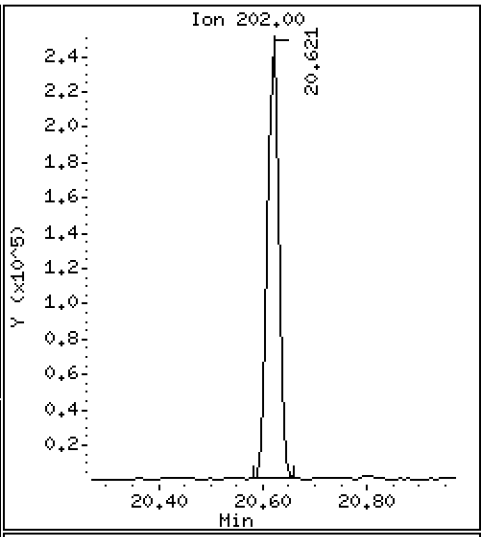
Column phase: ZB-5msi

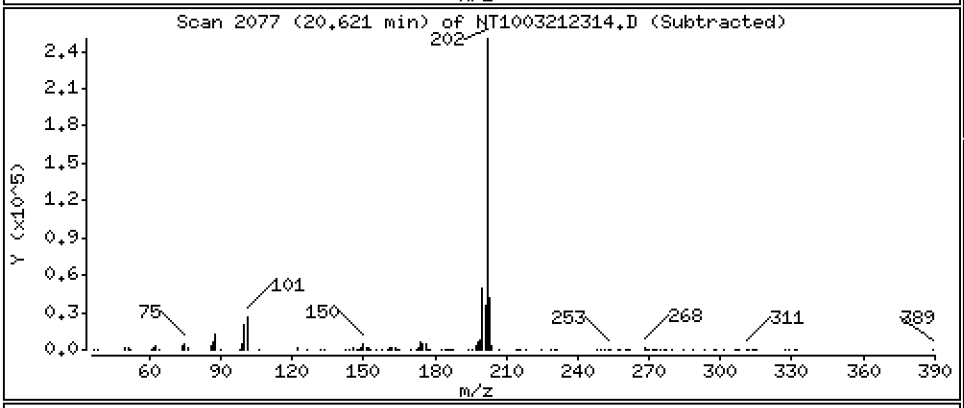
Column diameter: 0.25

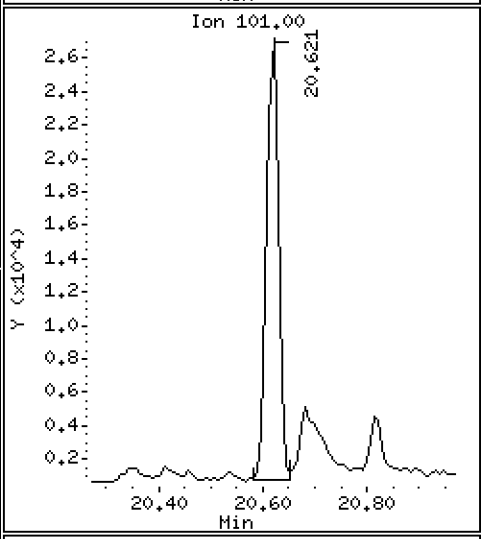
64 Fluoranthene

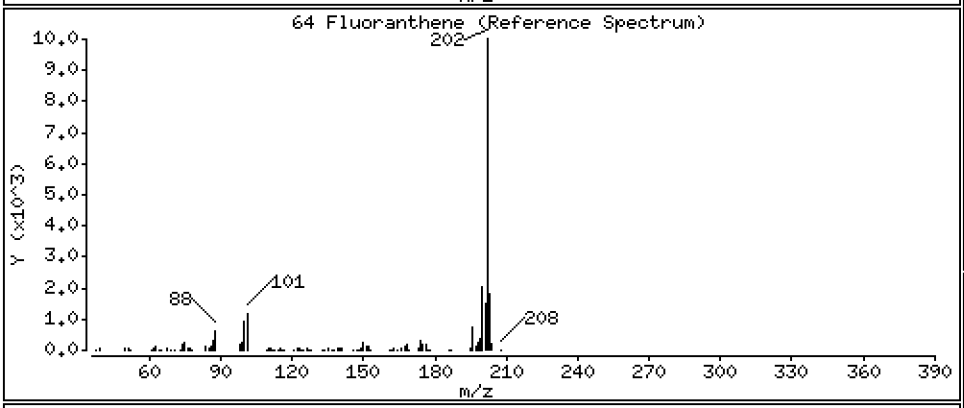
Concentration: 1.373 ug/mL

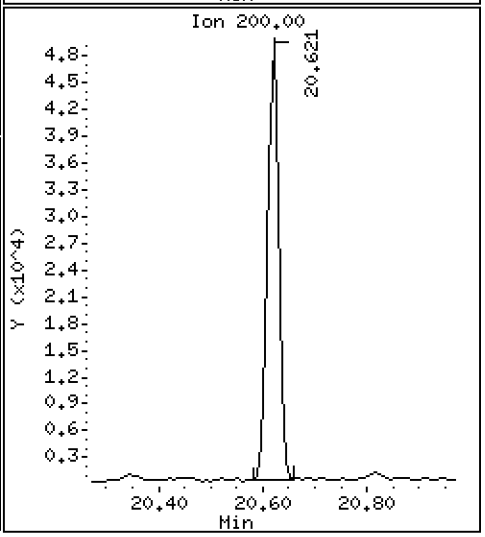


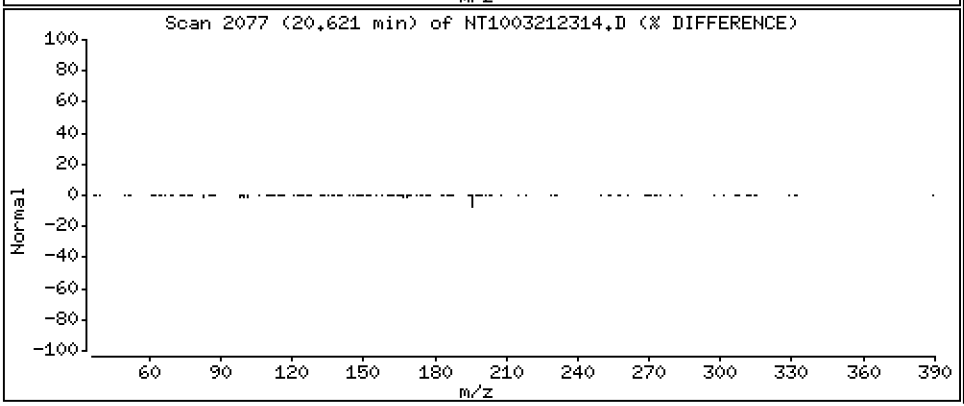












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Date : 22-MAR-2023 01:30

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-05

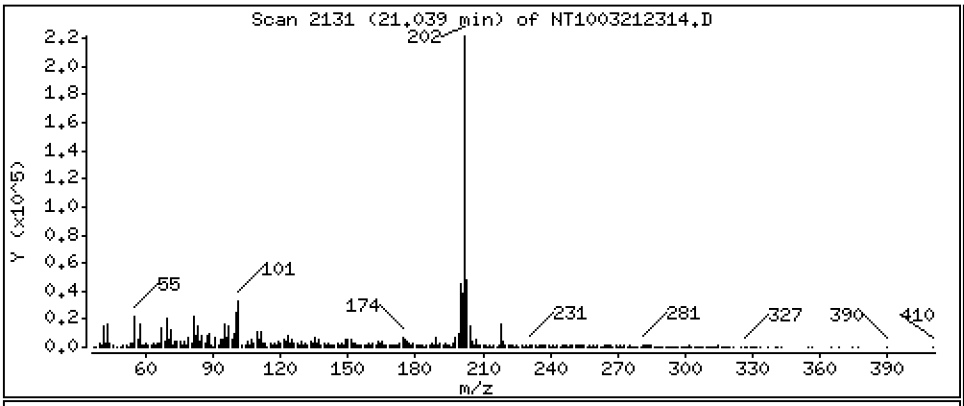
Operator: VTS

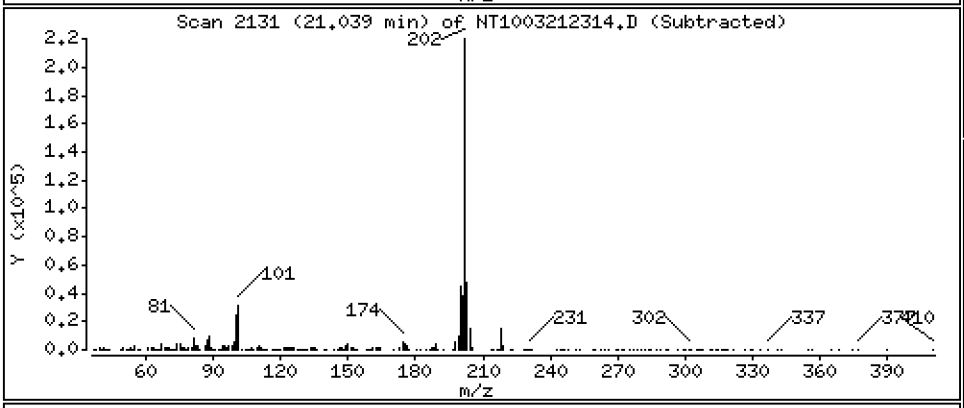
Column phase: ZB-5msi

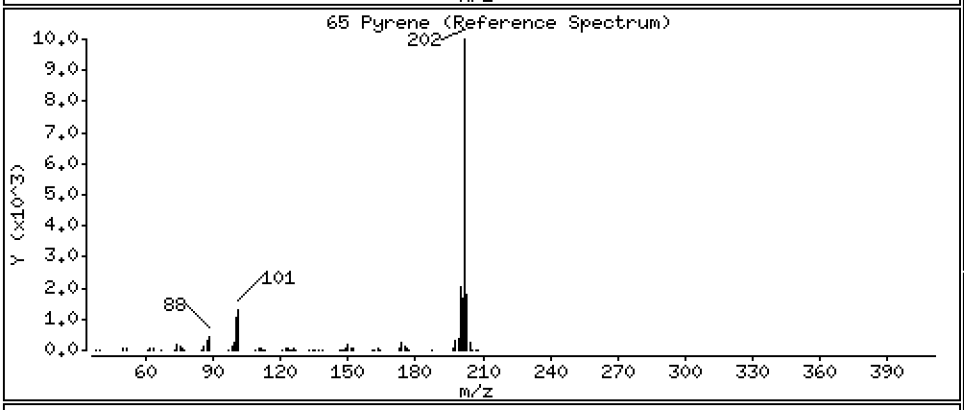
Column diameter: 0.25

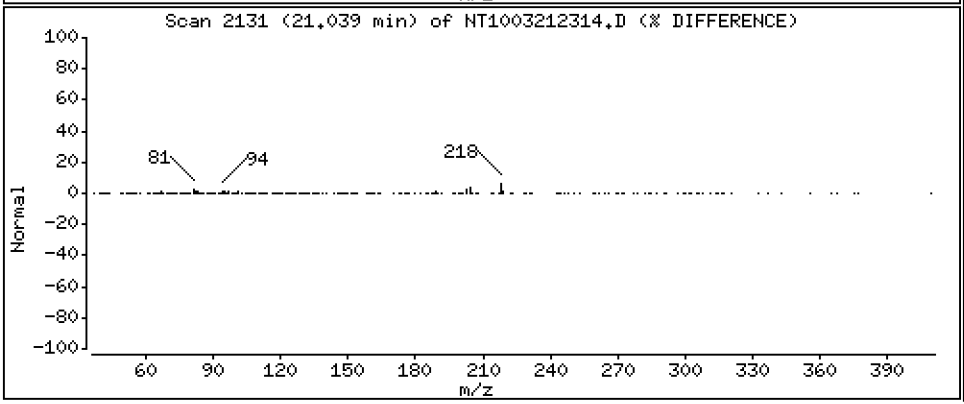
65 Pyrene

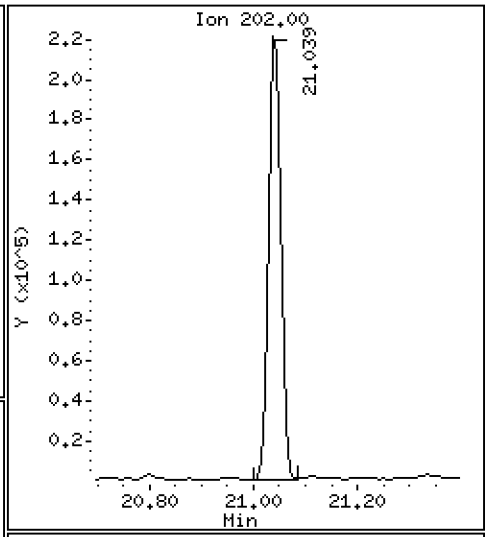
Concentration: 1.302 ug/mL

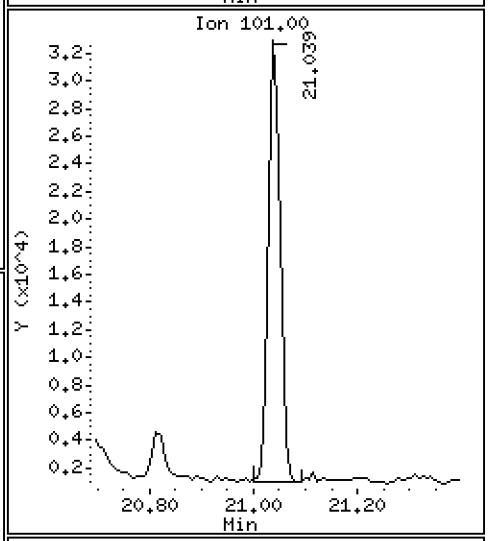


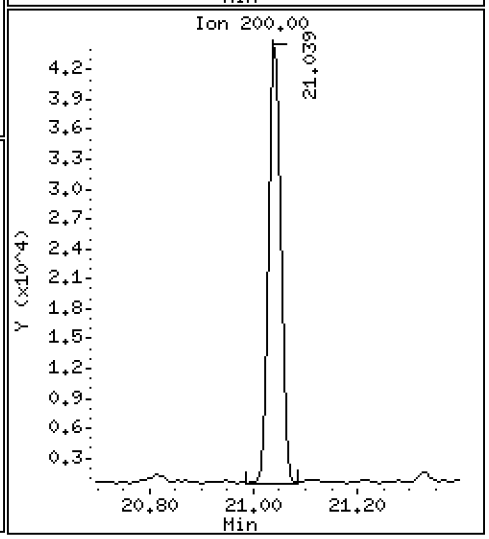












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Date : 22-MAR-2023 01:30

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-05

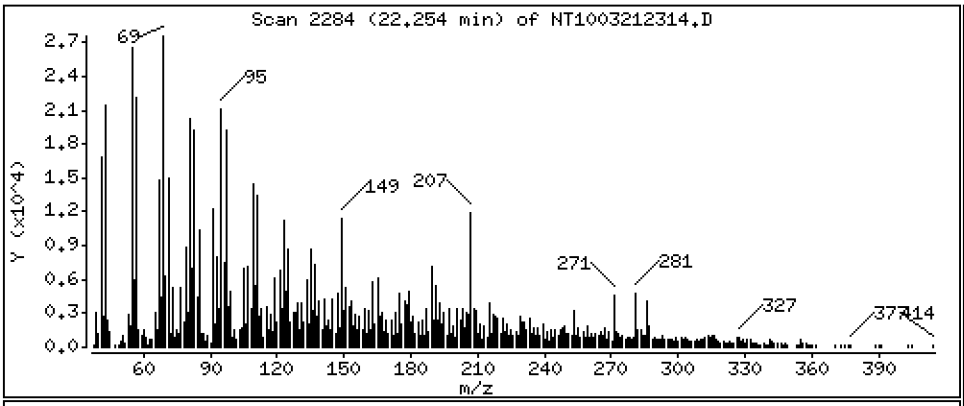
Operator: VTS

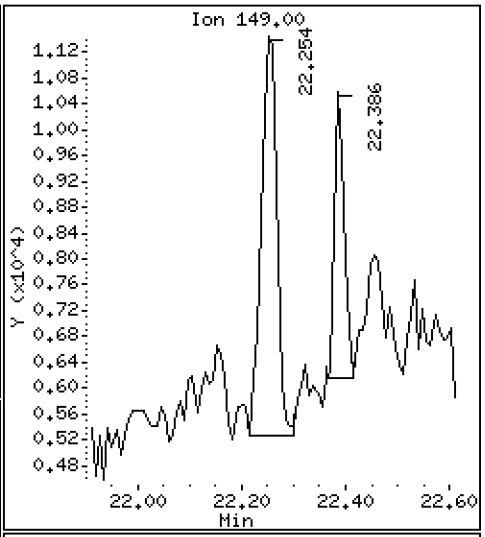
Column phase: ZB-5msi

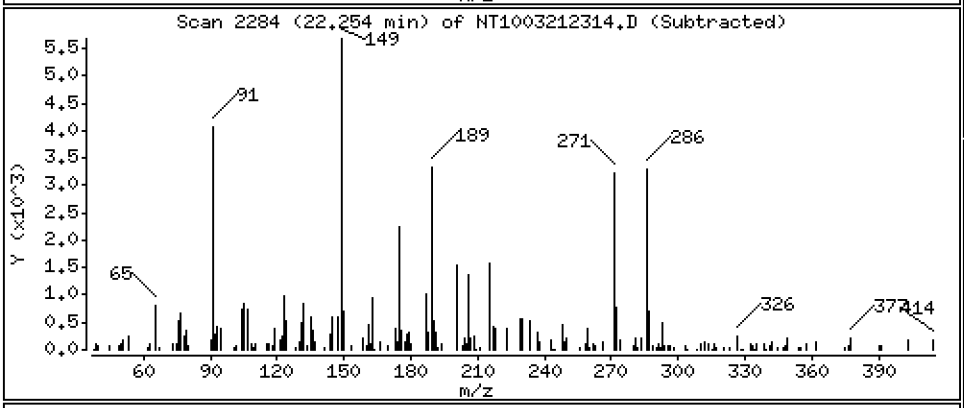
Column diameter: 0.25

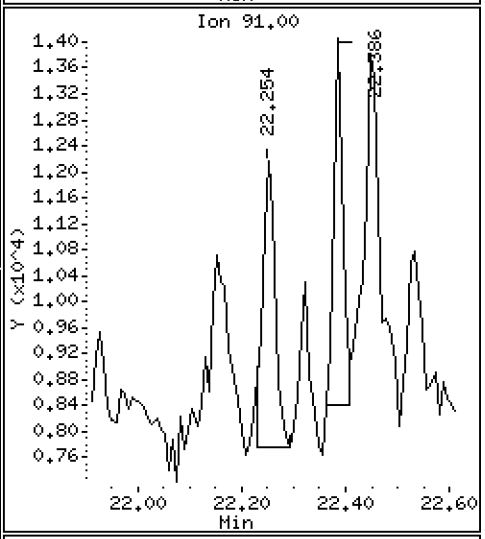
67 Butylbenzylphthalate

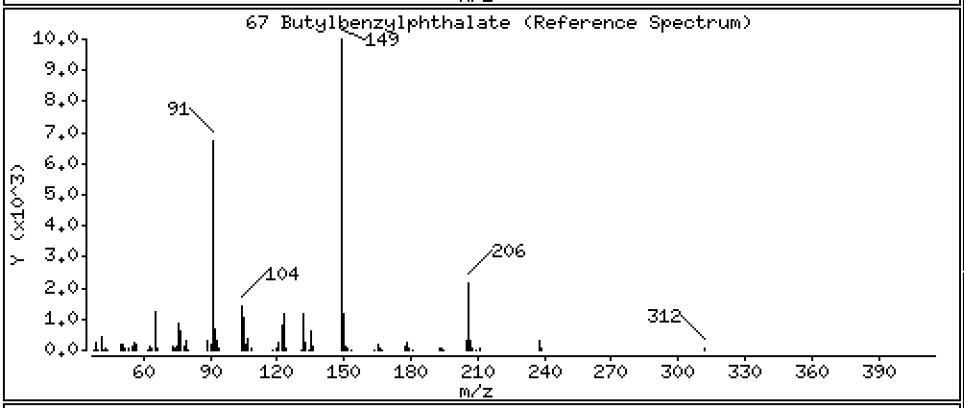
Concentration: 0.1356 ug/mL

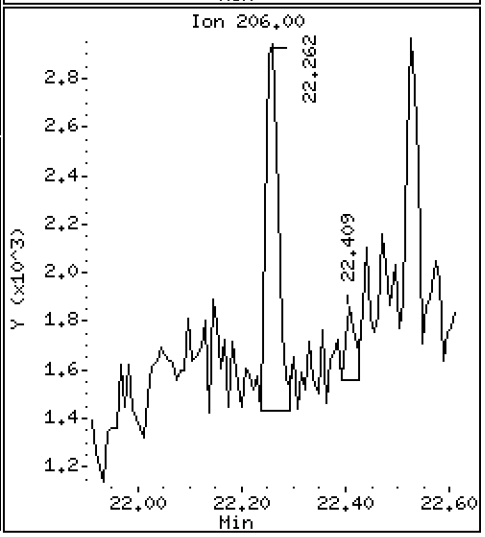


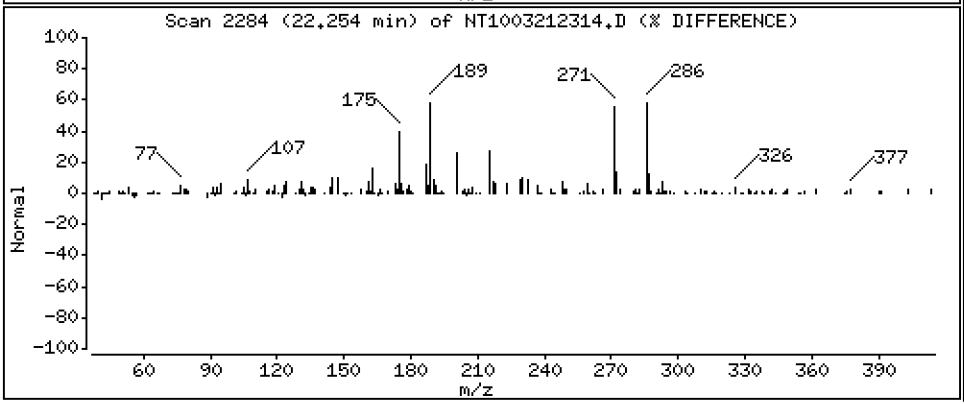












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212314.D

Date : 22-MAR-2023 01:30

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-05

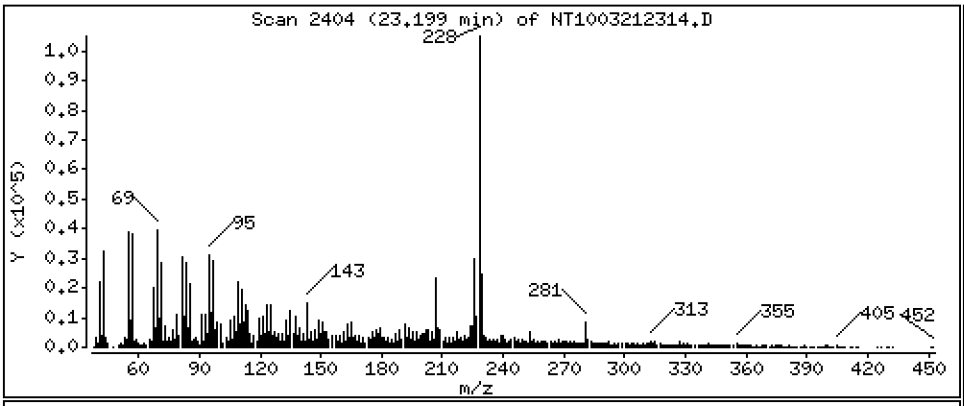
Operator: VTS

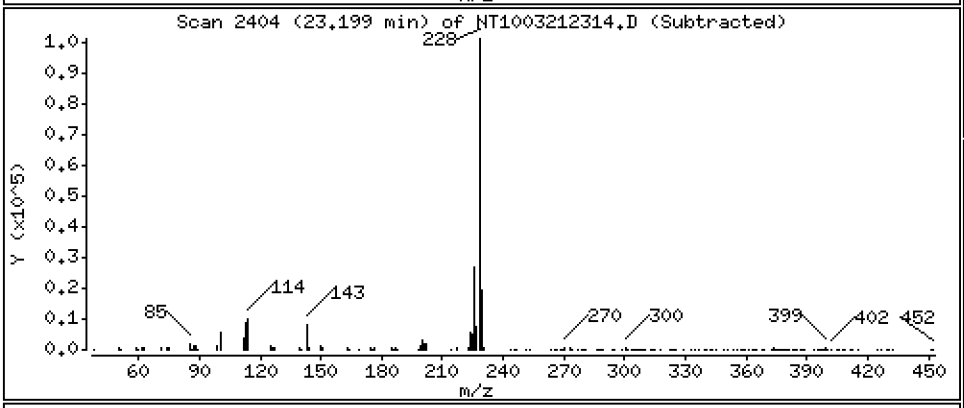
Column phase: ZB-5msi

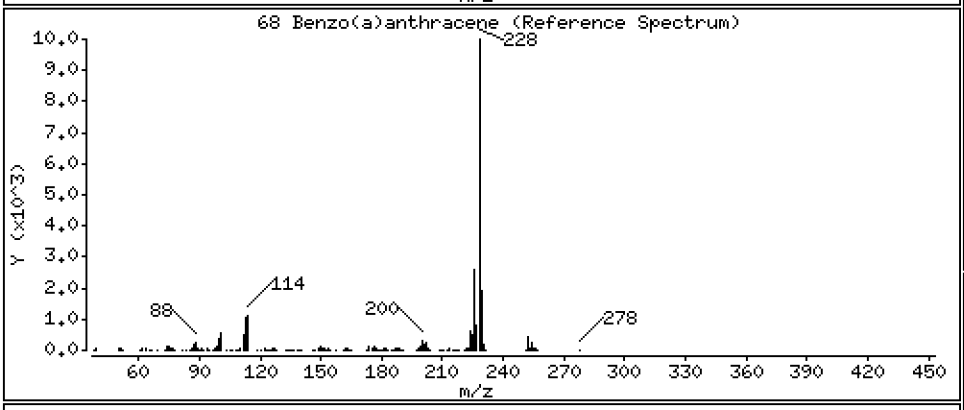
Column diameter: 0.25

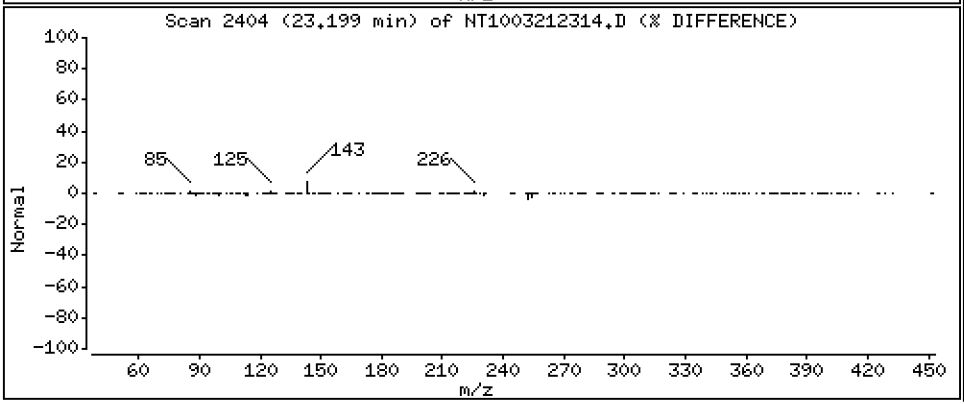
68 Benzo(a)anthracene

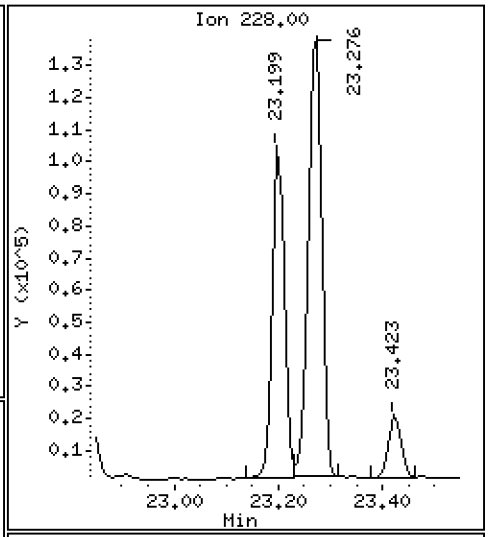
Concentration: 0.6862 ug/mL

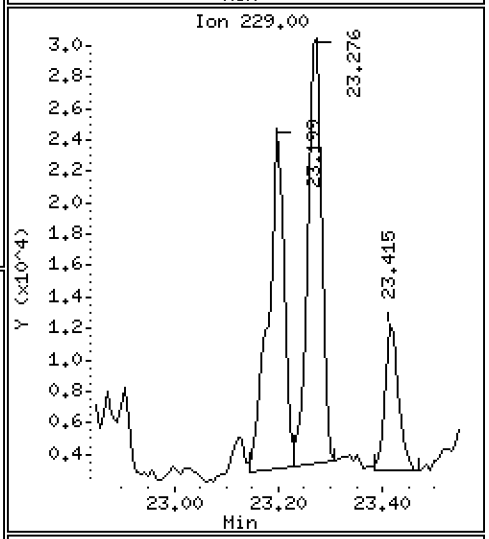


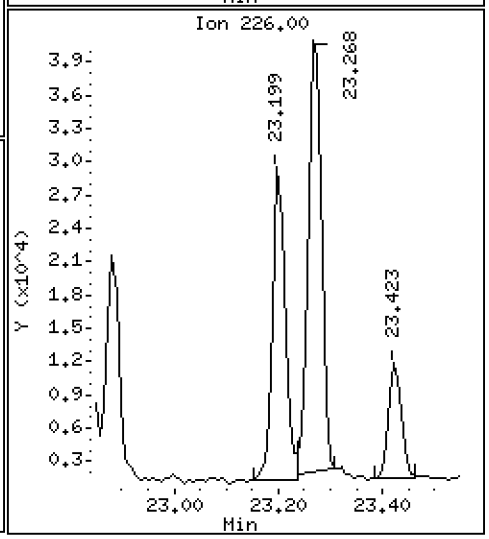












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Date : 22-MAR-2023 01:30

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-05

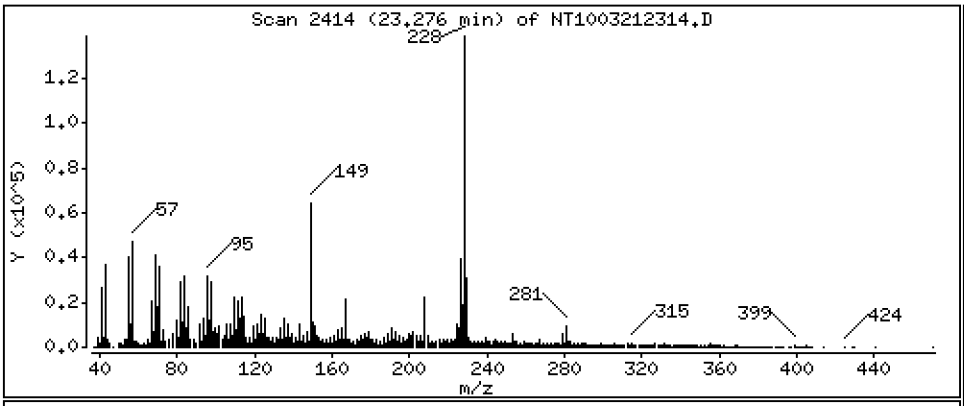
Operator: VTS

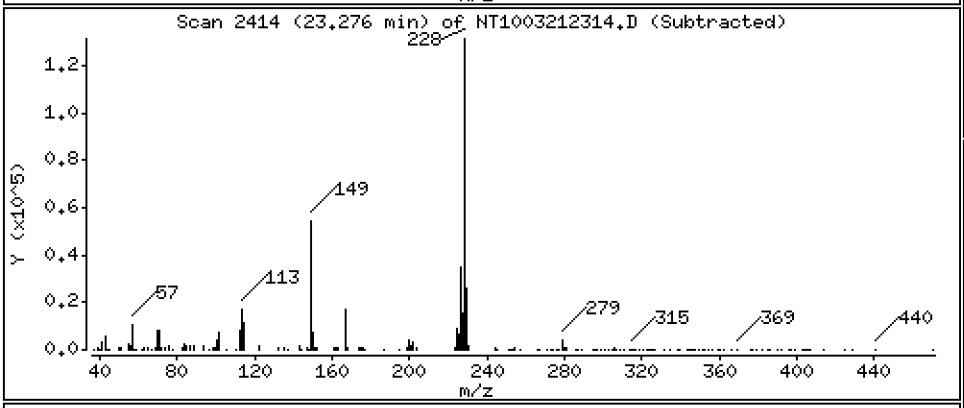
Column phase: ZB-5msi

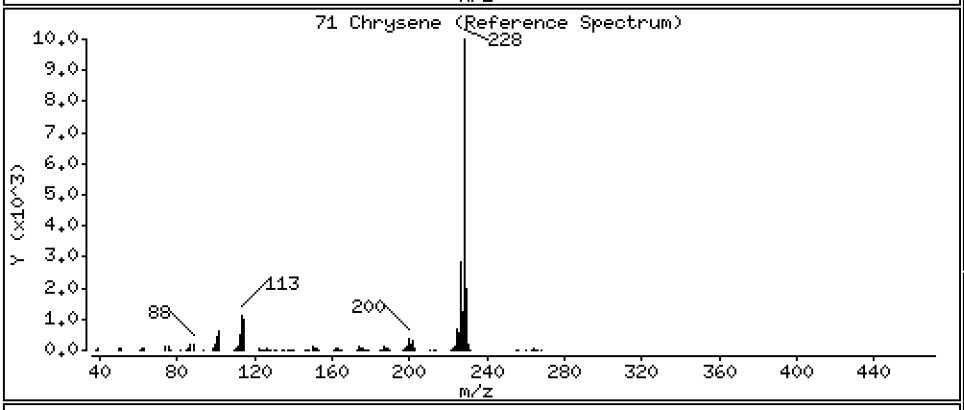
Column diameter: 0.25

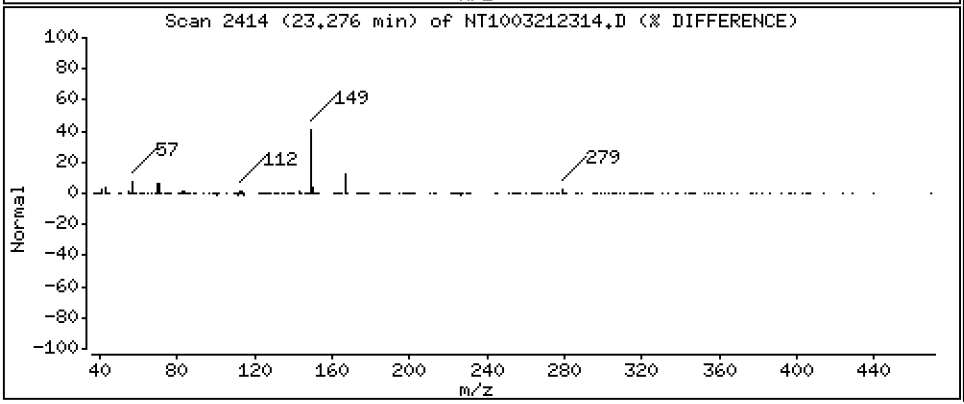
71 Chrysene

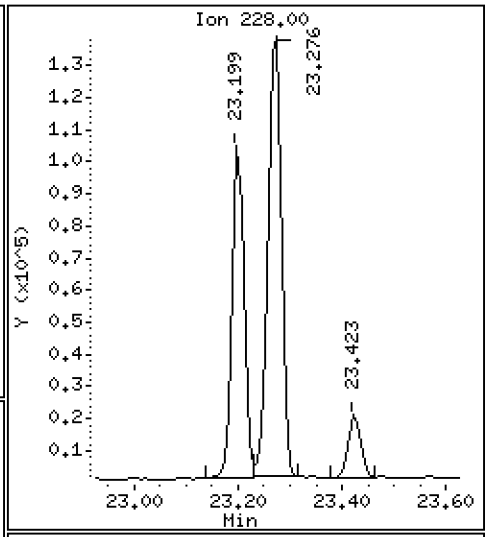
Concentration: 1.072 ug/mL

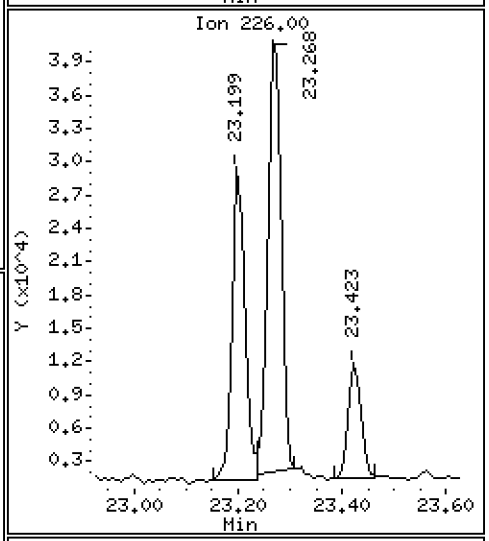


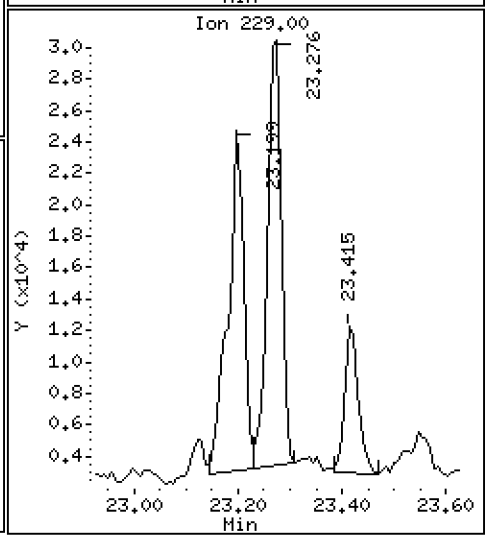












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Date : 22-MAR-2023 01:30

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-05

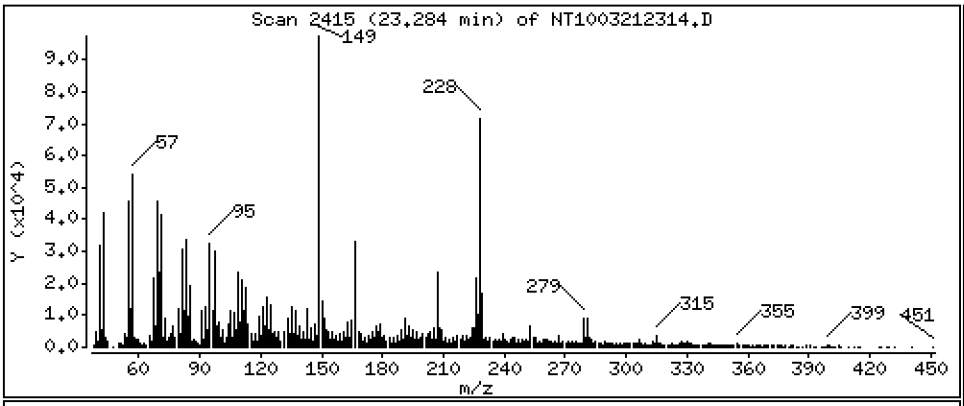
Operator: VTS

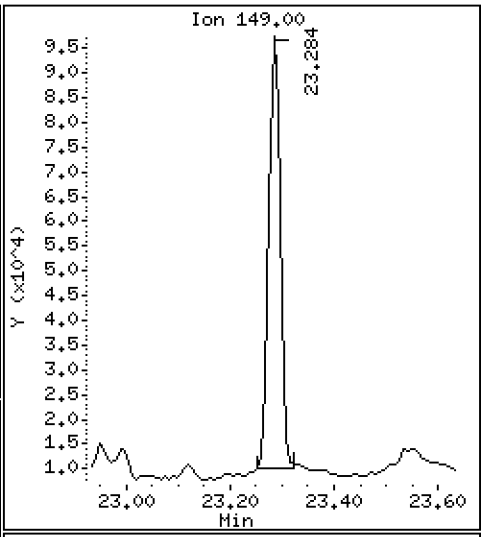
Column phase: ZB-5msi

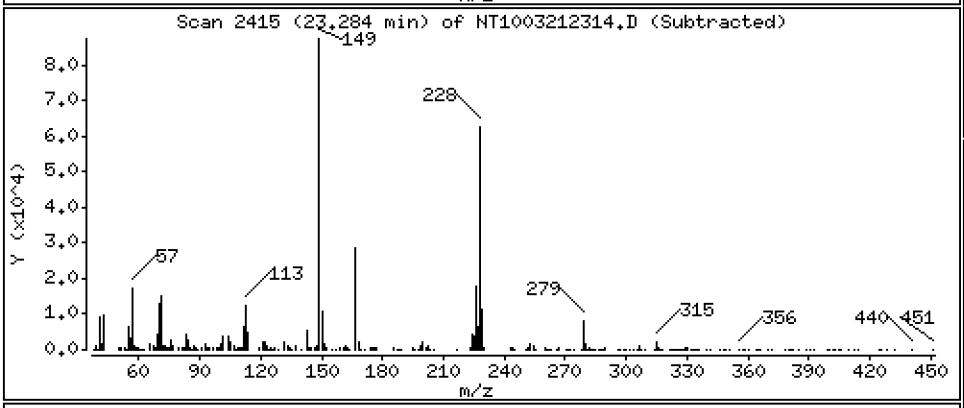
Column diameter: 0.25

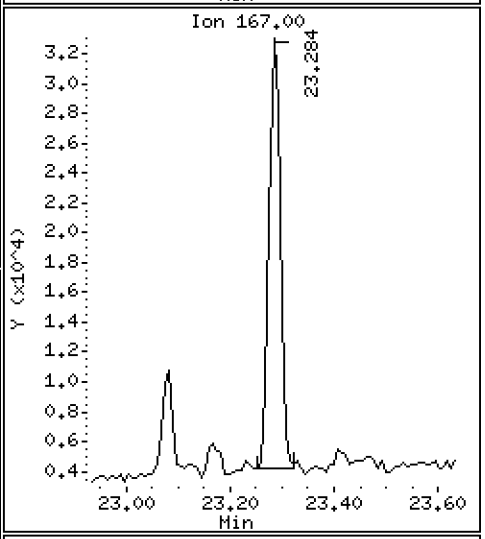
72 bis(2-Ethylhexyl)phthalate

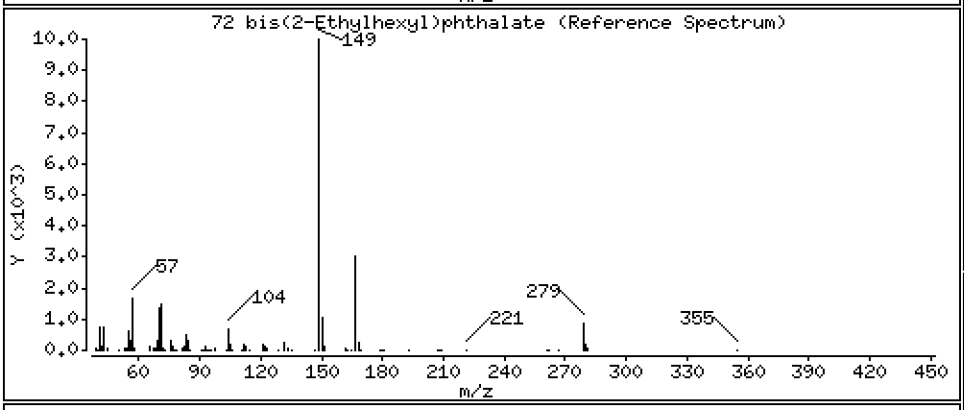
Concentration: 0.7976 ug/mL

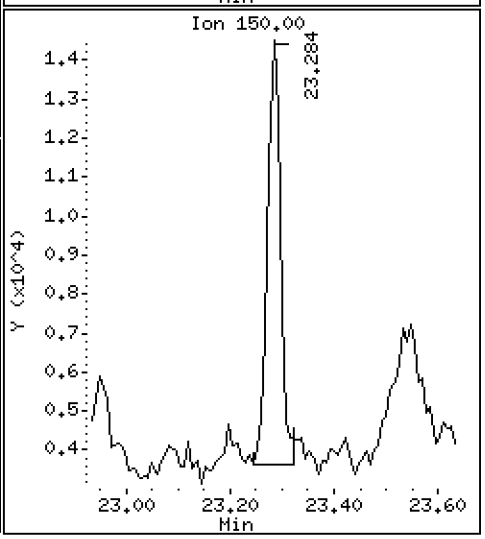


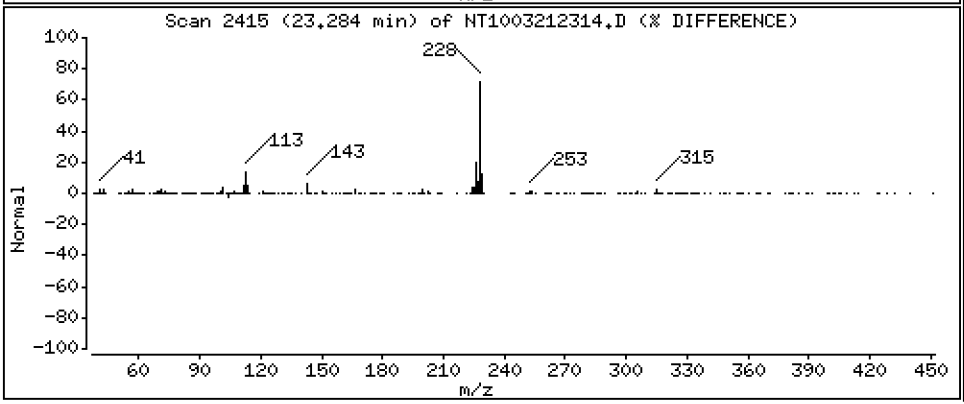












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Date : 22-MAR-2023 01:30

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-05

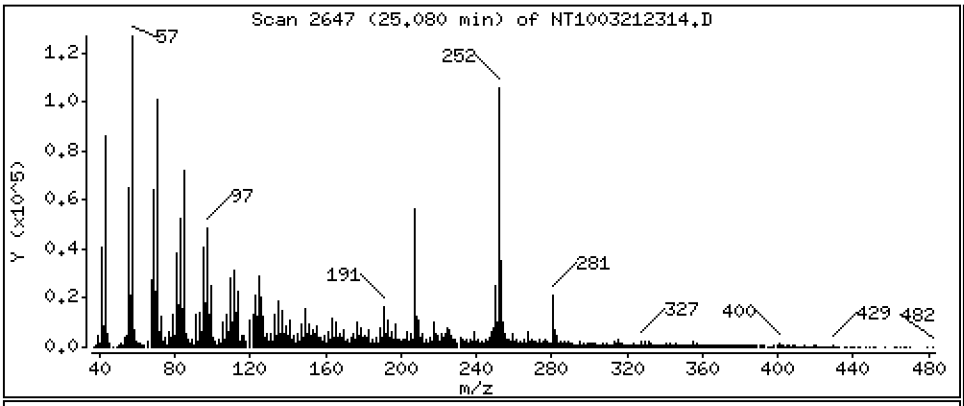
Operator: VTS

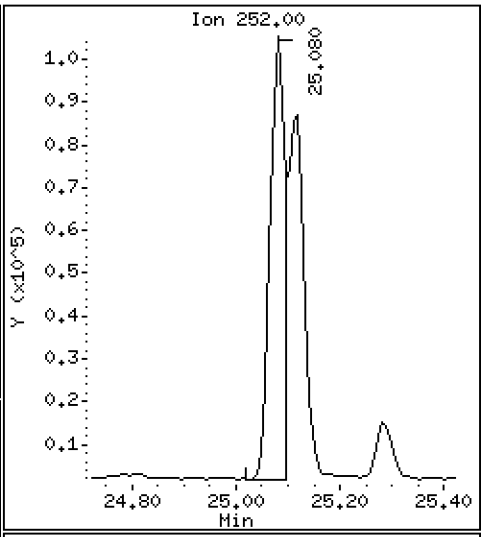
Column phase: ZB-5msi

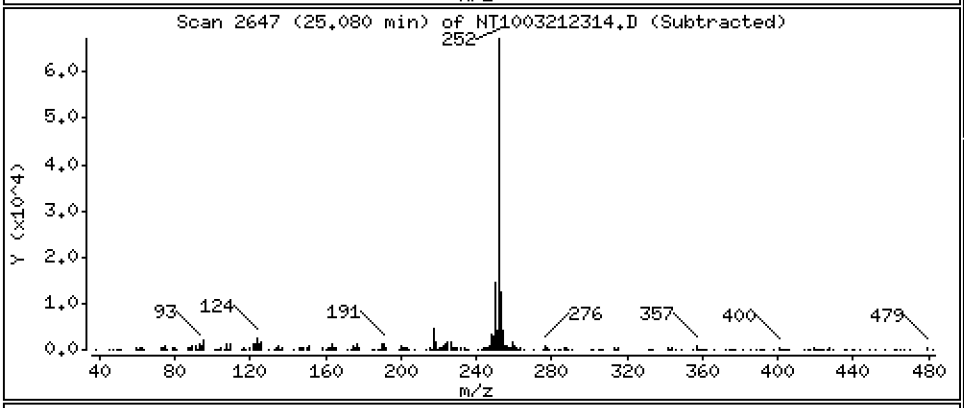
Column diameter: 0.25

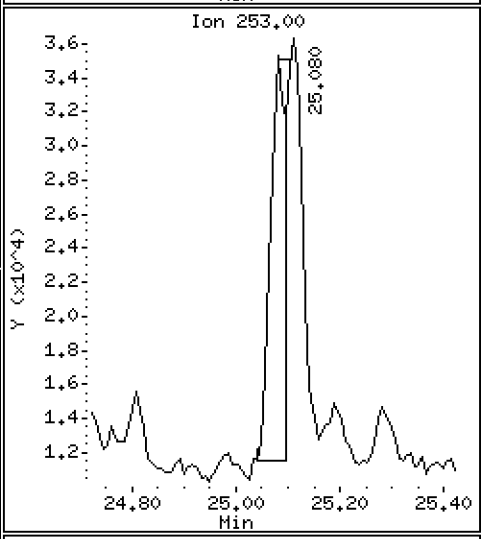
74 Benzo(b)fluoranthene

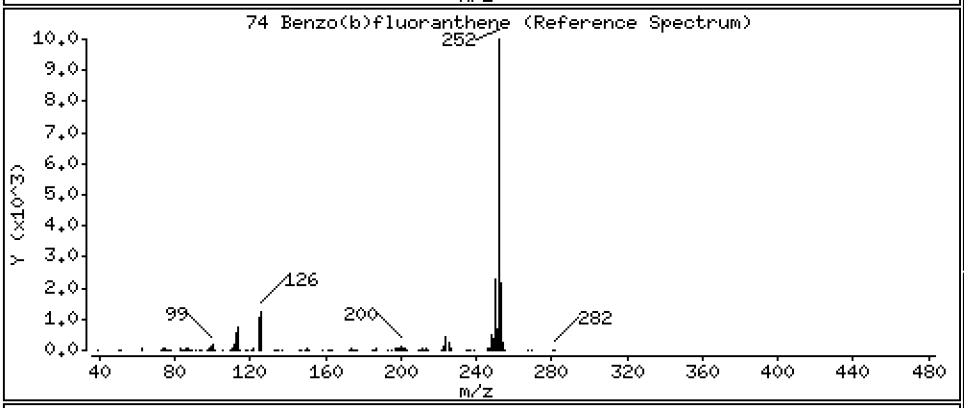
Concentration: 0.8141 ug/mL

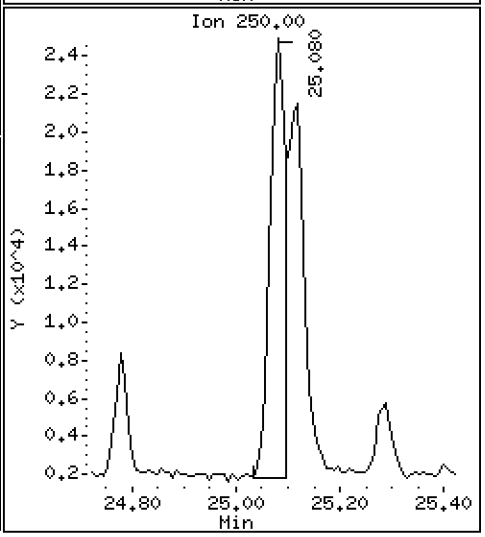


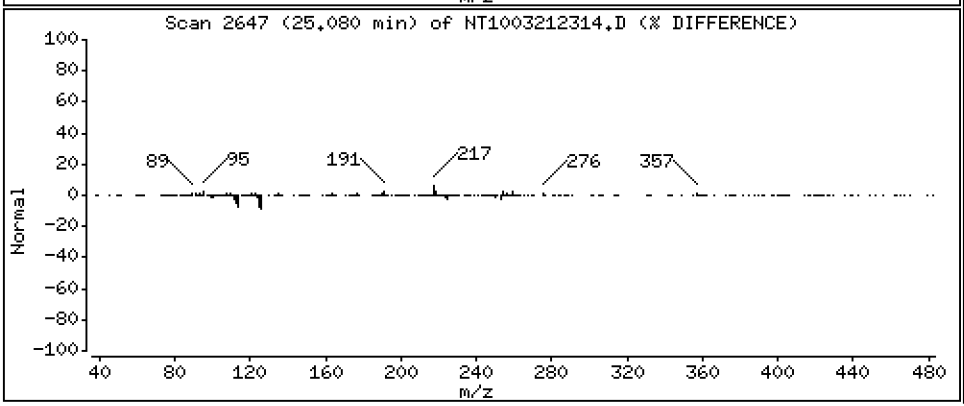












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Date : 22-MAR-2023 01:30

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-05

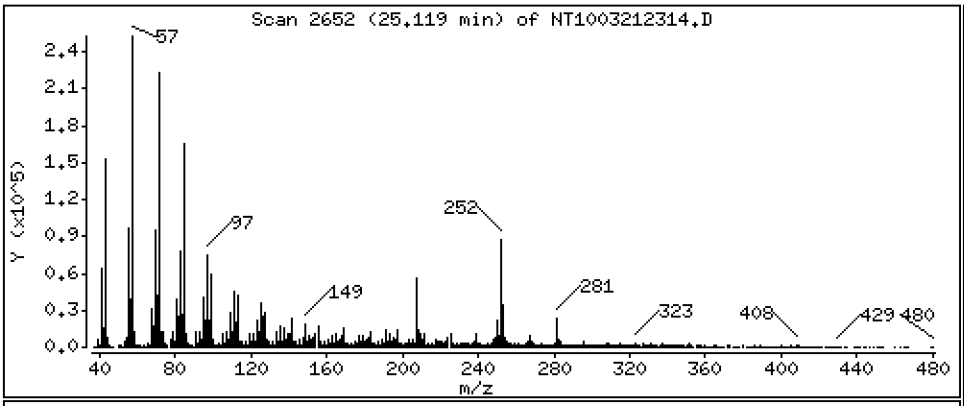
Operator: VTS

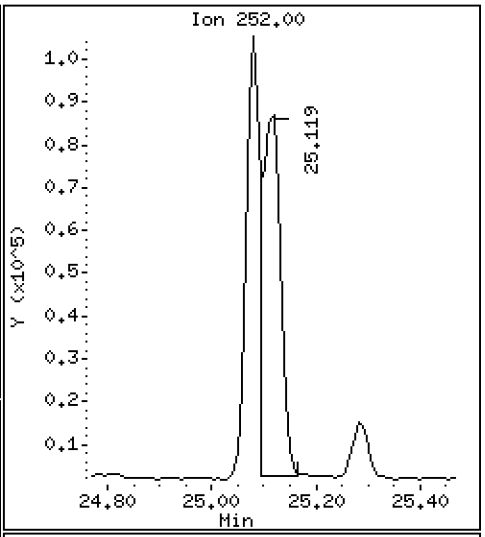
Column phase: ZB-5msi

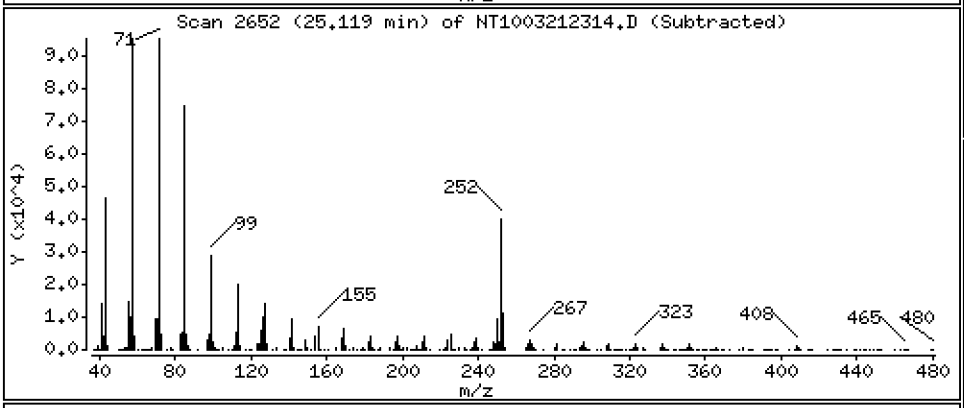
Column diameter: 0.25

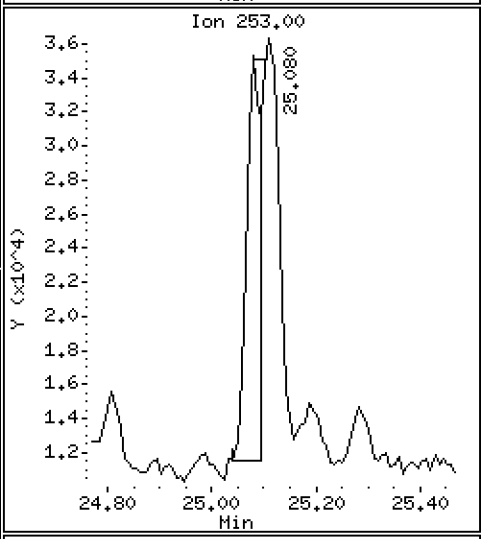
75 Benzo(k)fluoranthene

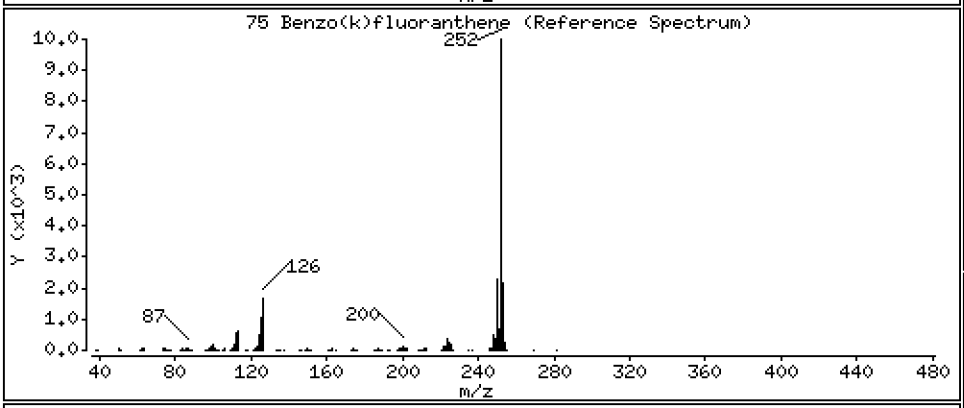
Concentration: 0.8150 ug/mL

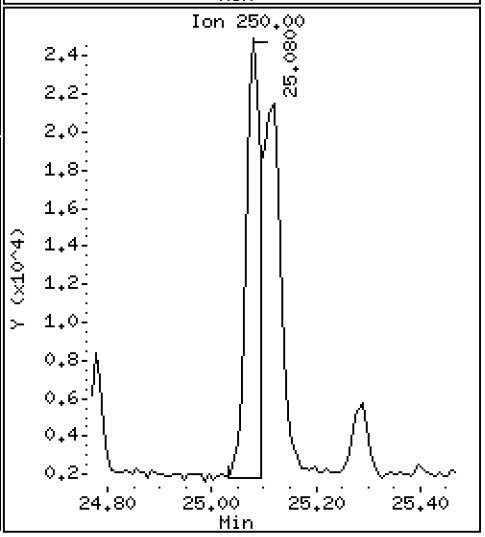


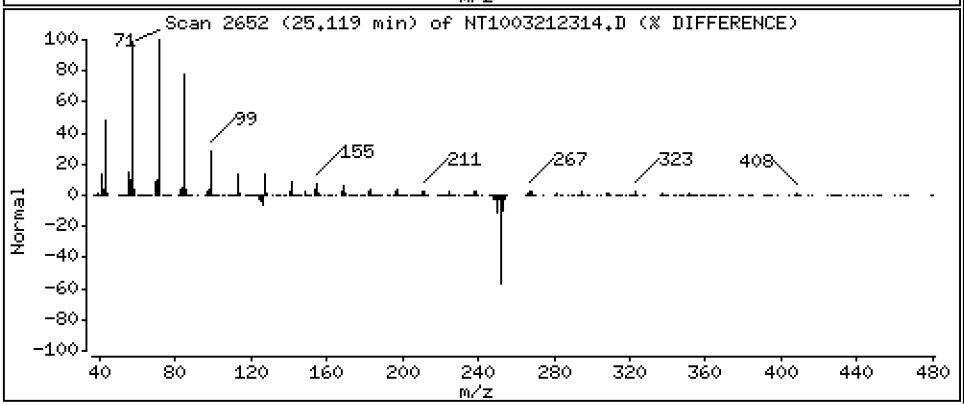












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Date : 22-MAR-2023 01:30

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-05

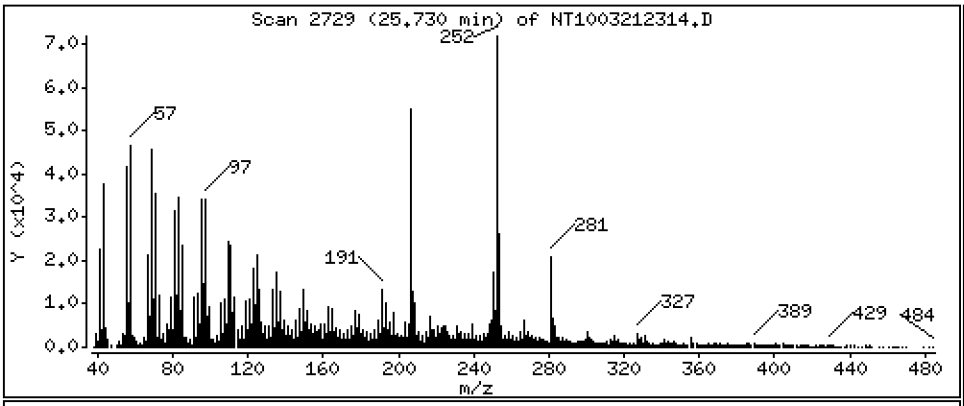
Operator: VTS

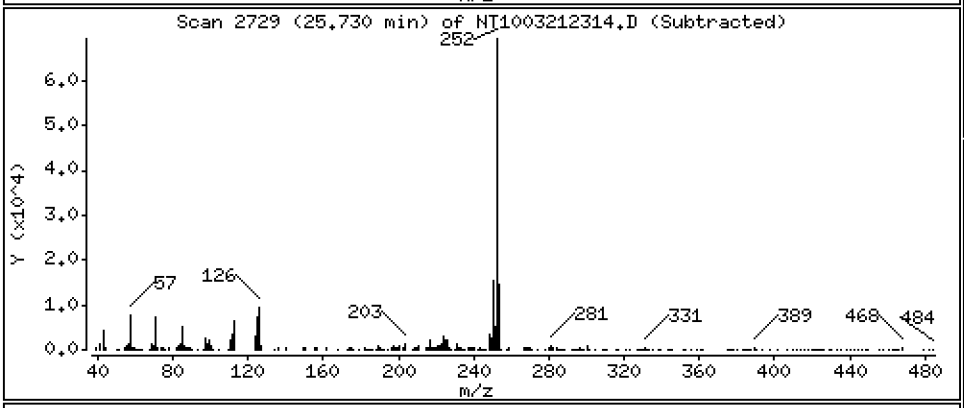
Column phase: ZB-5msi

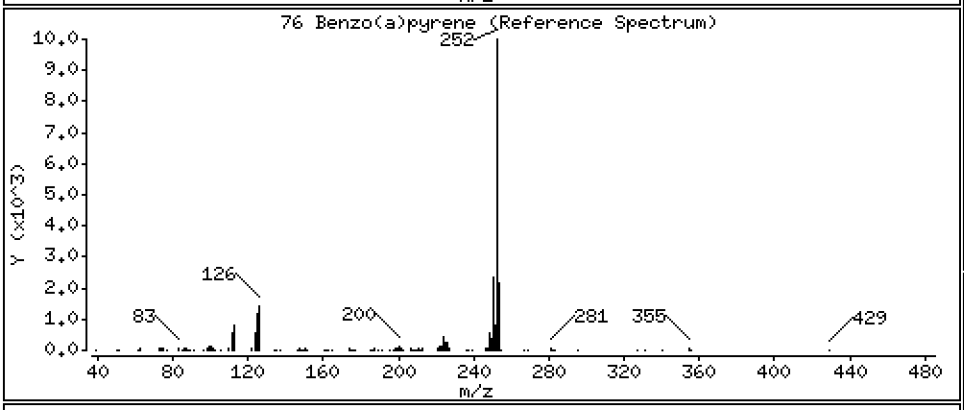
Column diameter: 0.25

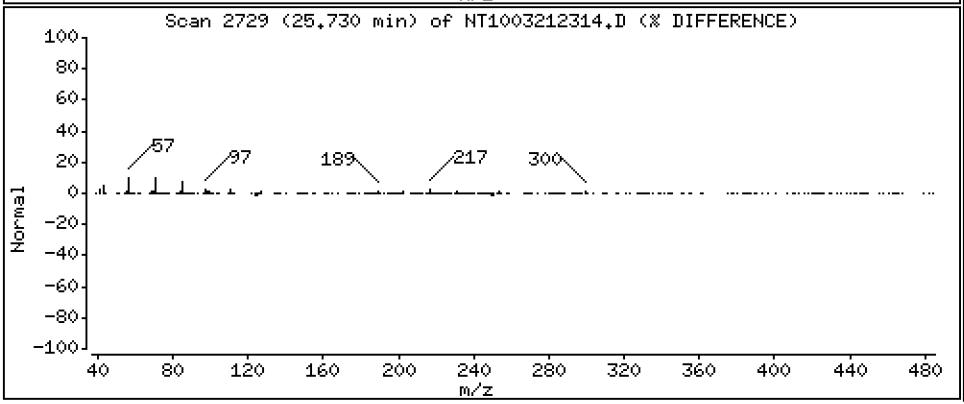
76 Benzo(a)pyrene

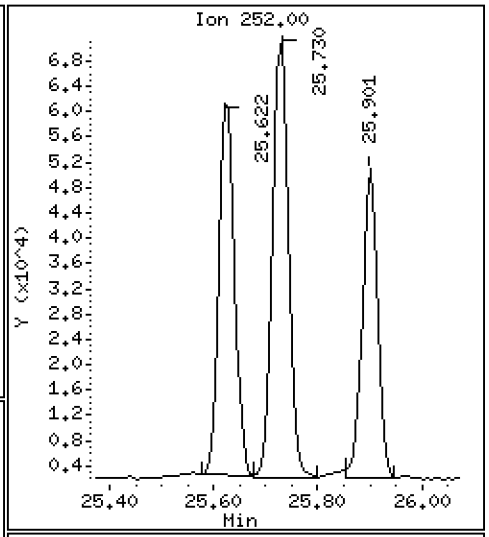
Concentration: 0.6395 ug/mL

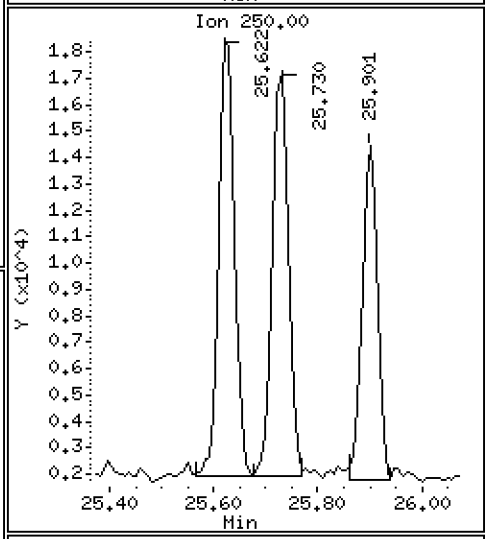


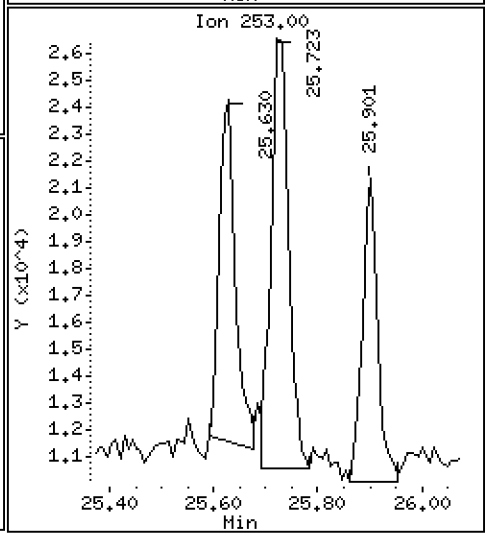












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Date : 22-MAR-2023 01:30

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-05

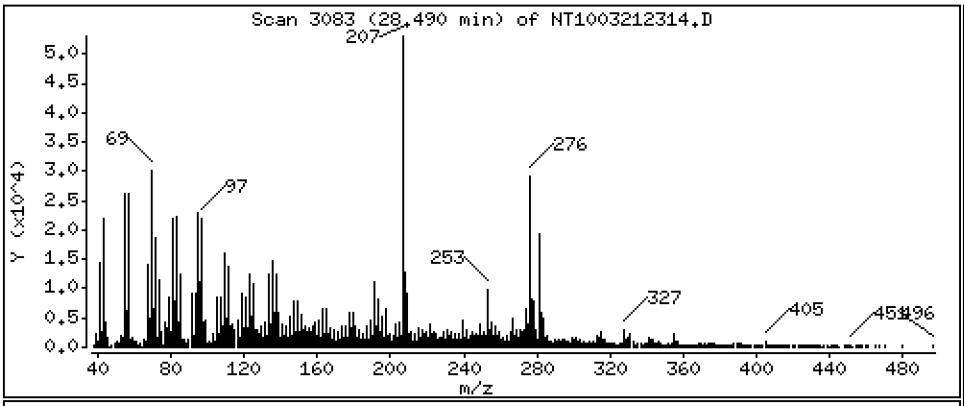
Operator: VTS

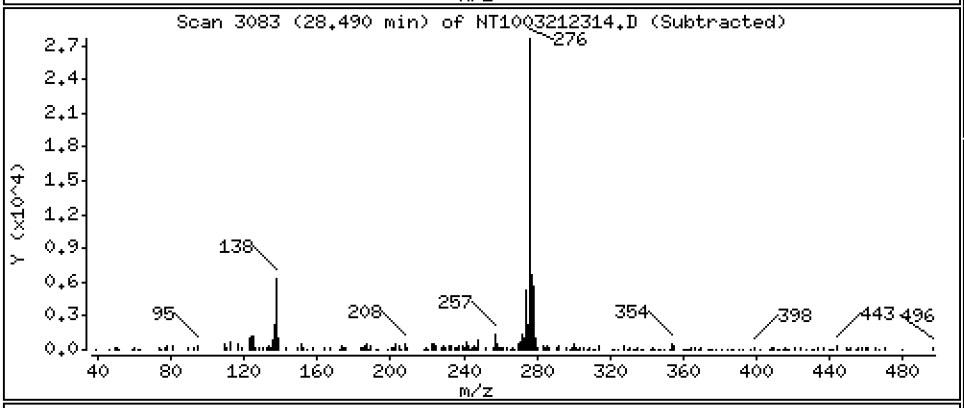
Column phase: ZB-5msi

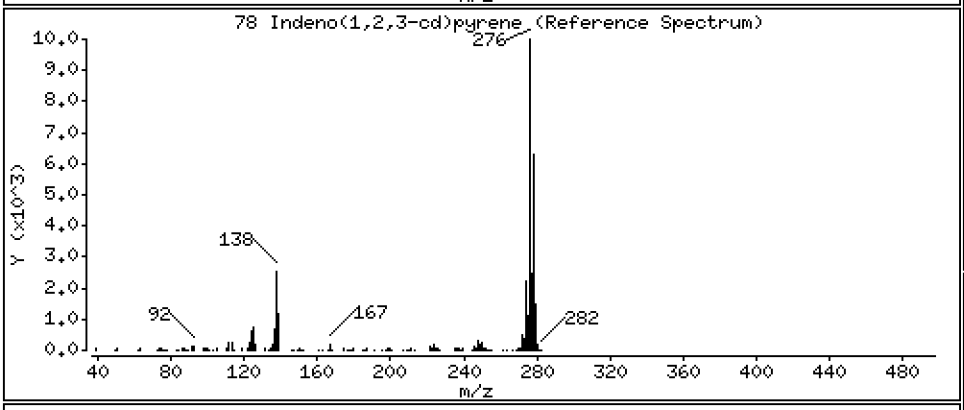
Column diameter: 0.25

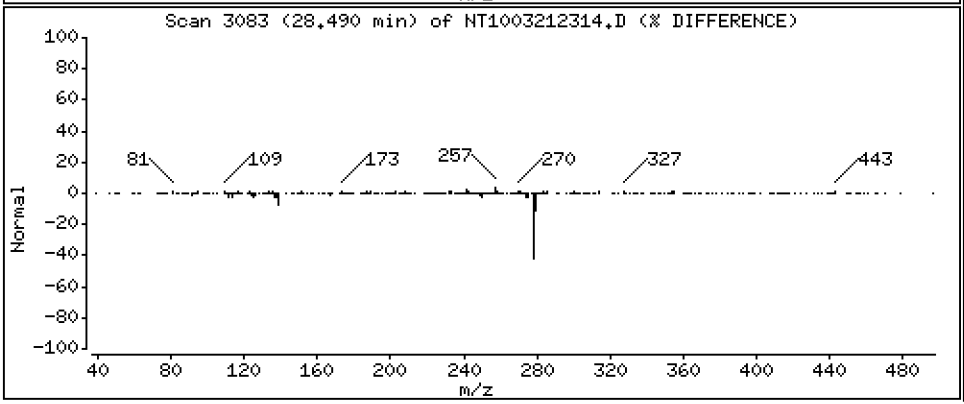
78 Indeno(1,2,3-cd)pyrene

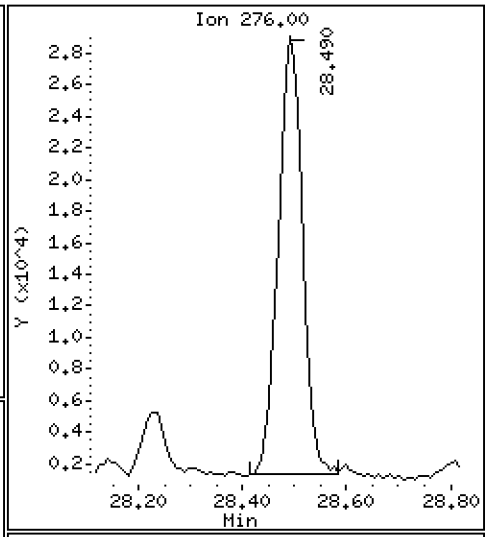
Concentration: 0.3259 ug/mL

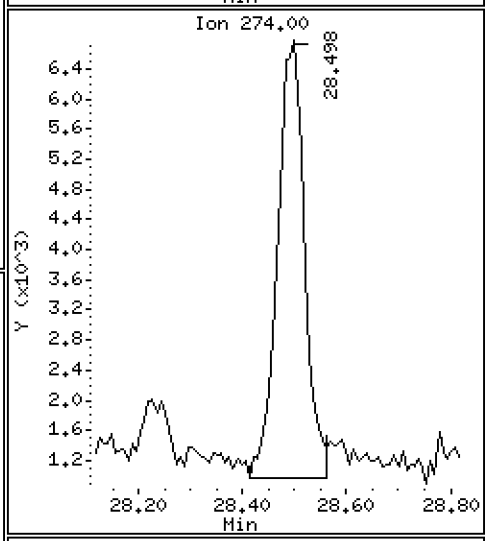


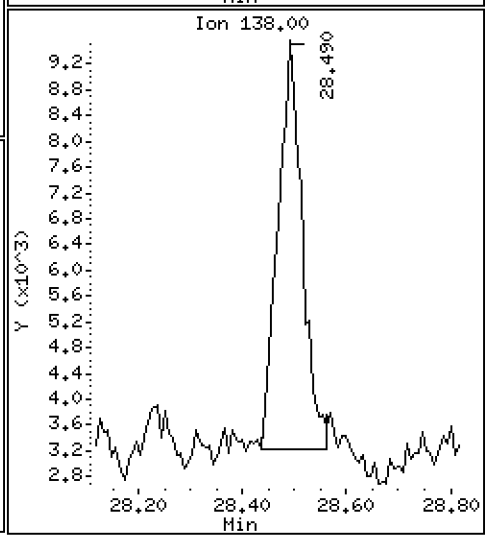












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Date : 22-MAR-2023 01:30

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-05

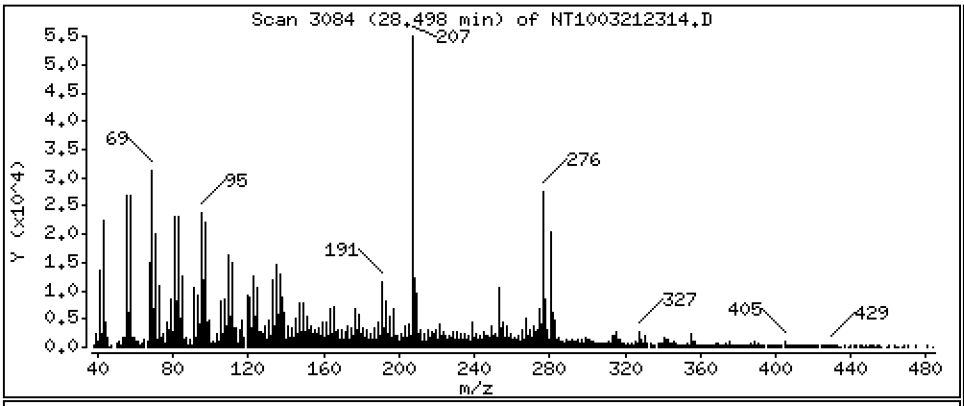
Operator: VTS

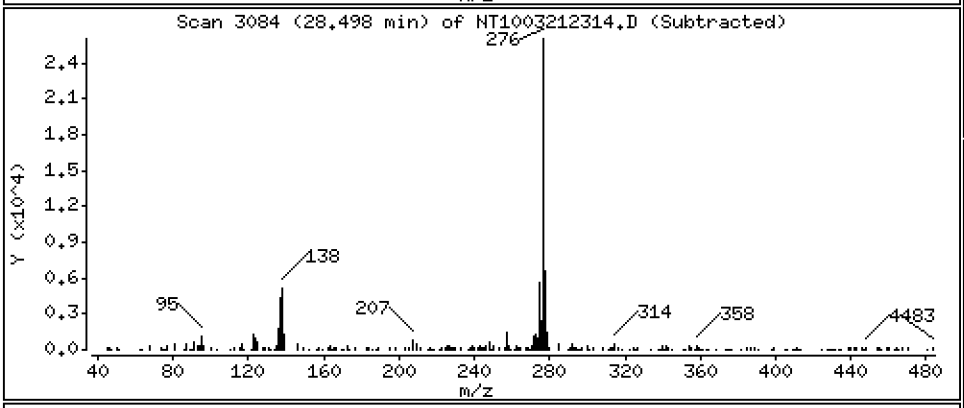
Column phase: ZB-5msi

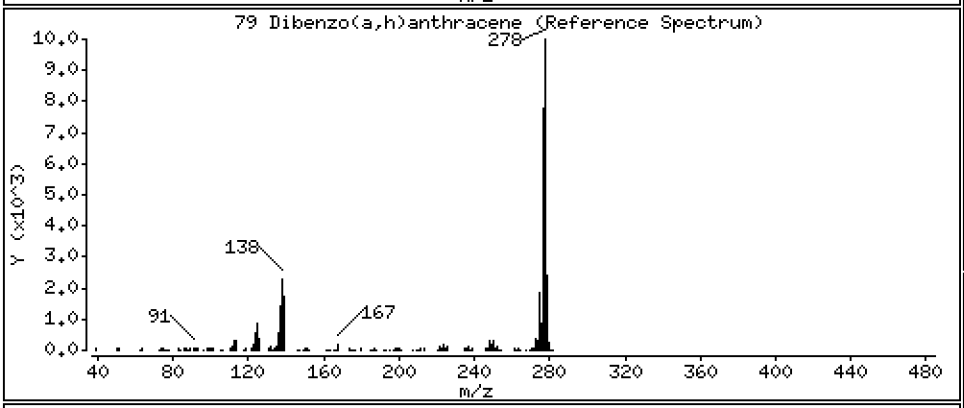
Column diameter: 0.25

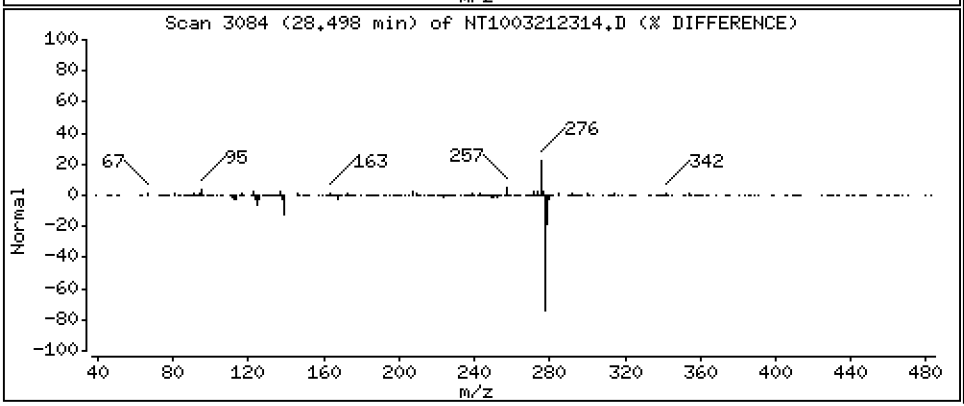
79 Dibenzo(a,h)anthracene

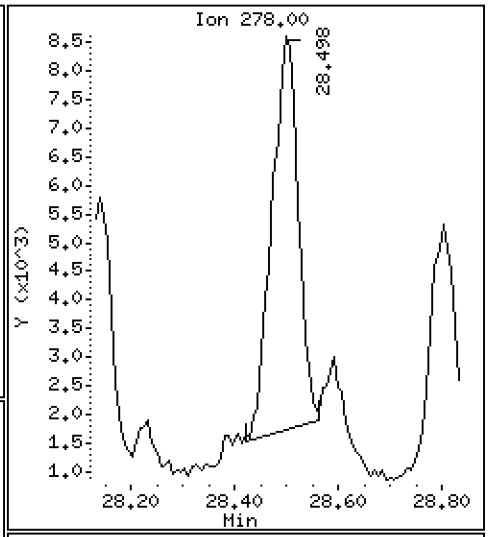
Concentration: 0.1045 ug/mL

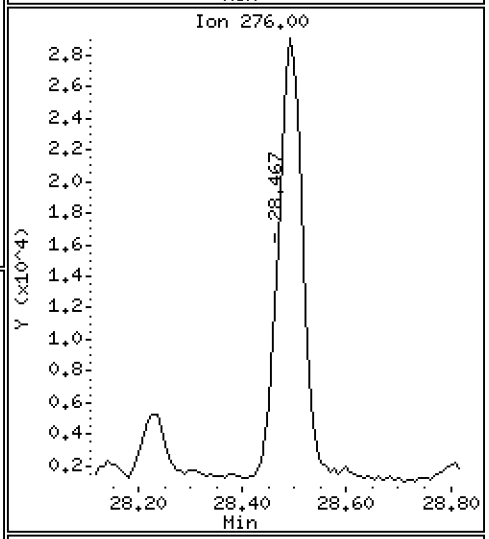


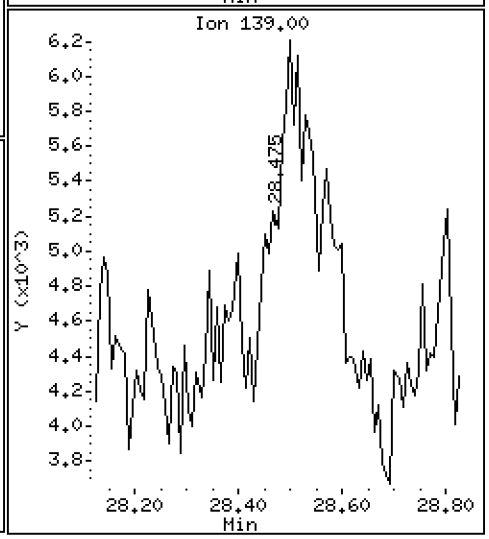












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Date : 22-MAR-2023 01:30

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-05

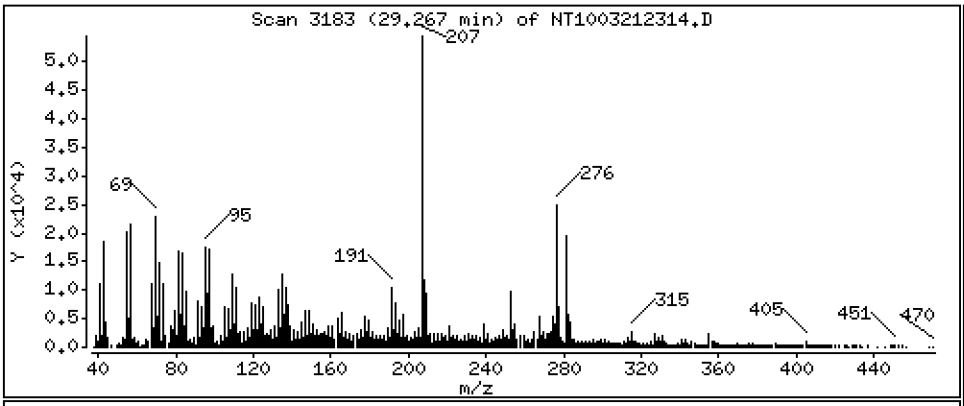
Operator: VTS

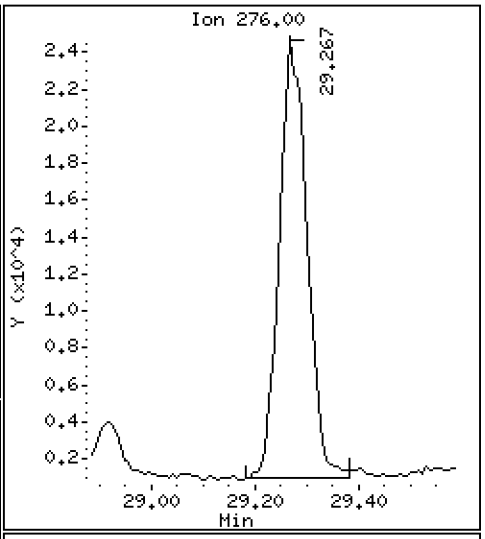
Column phase: ZB-5msi

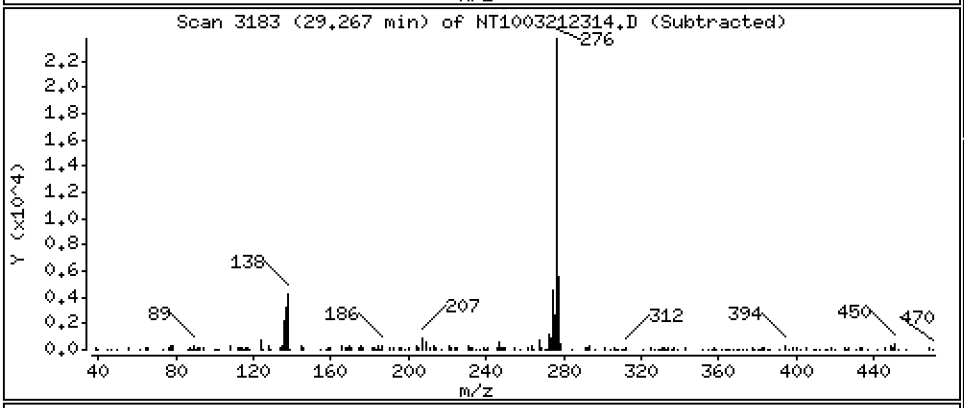
Column diameter: 0.25

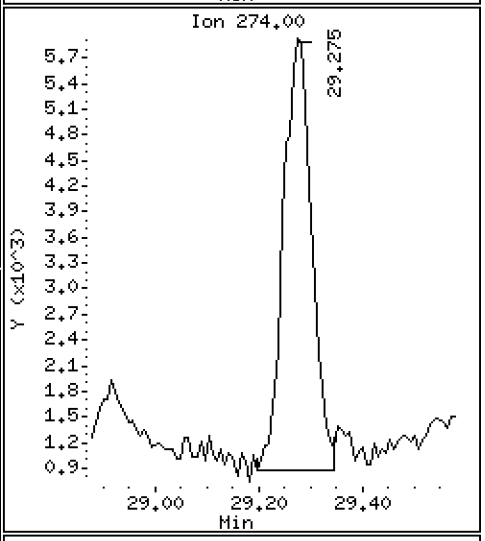
80 Benzo(g,h,i)perylene

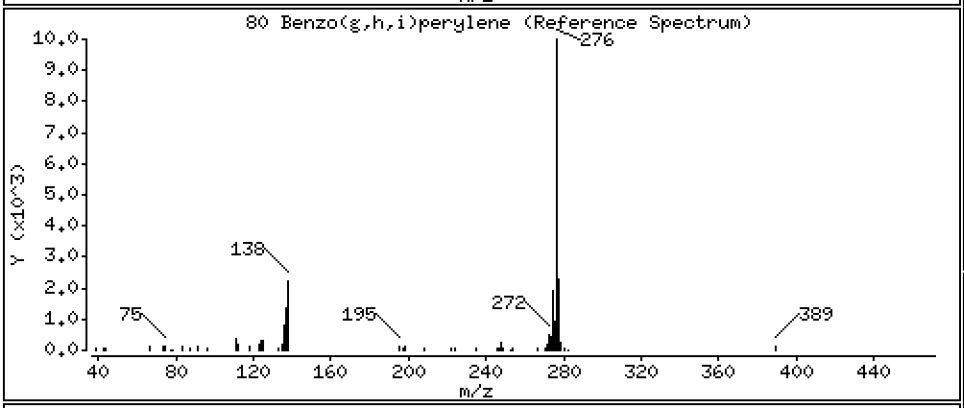
Concentration: 0.3666 ug/mL

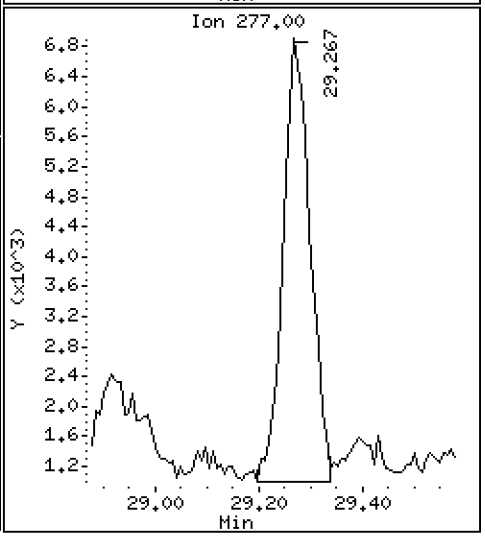


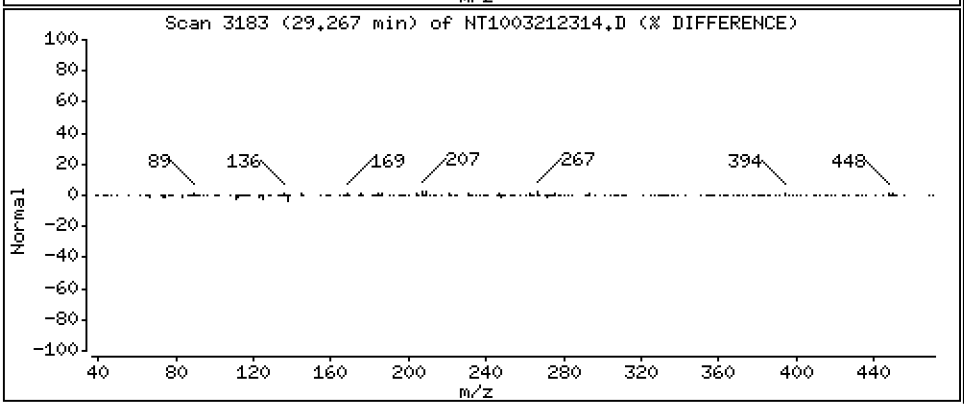












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Date : 22-MAR-2023 01:30

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-05

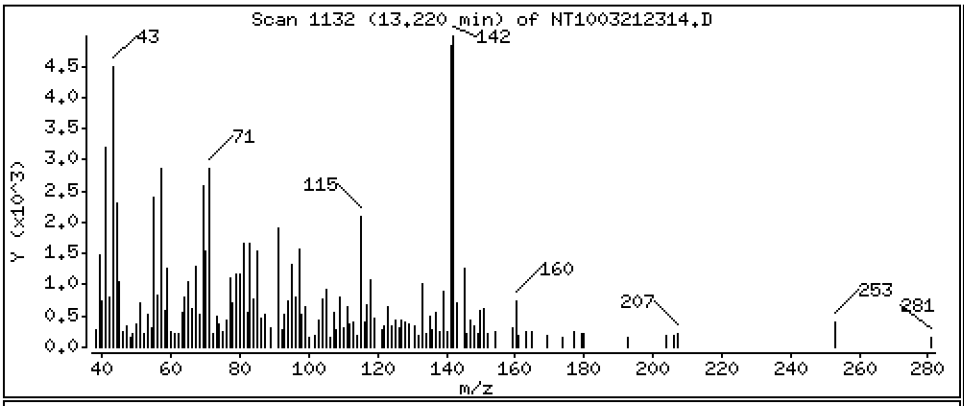
Operator: VTS

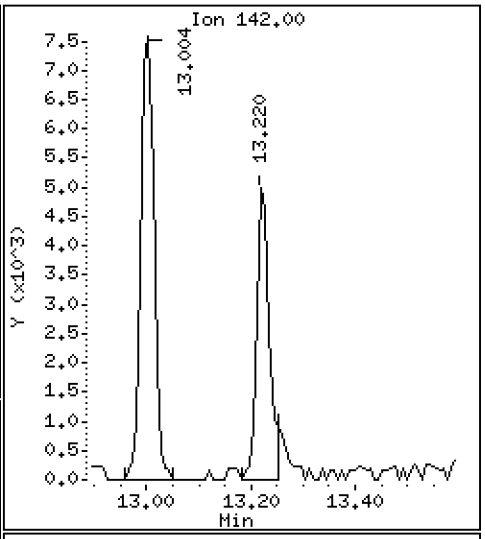
Column phase: ZB-5msi

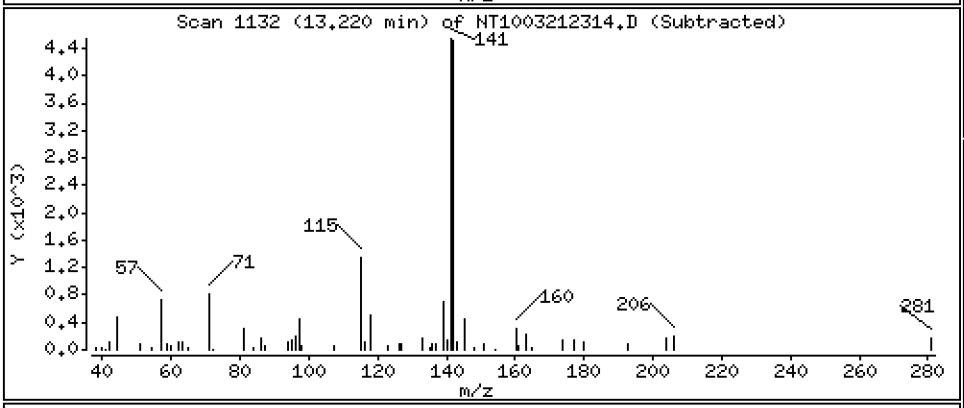
Column diameter: 0.25

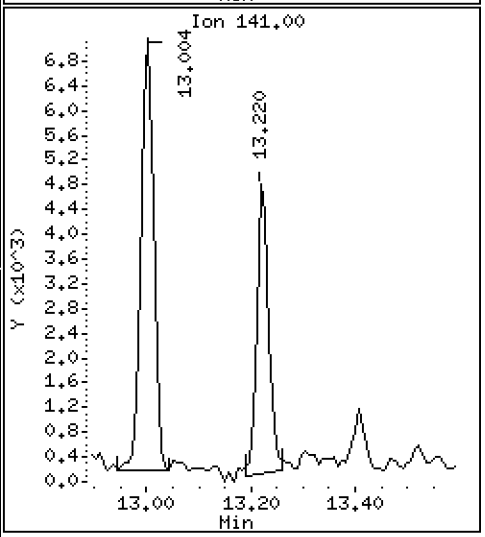
105 1-methylnaphthalene

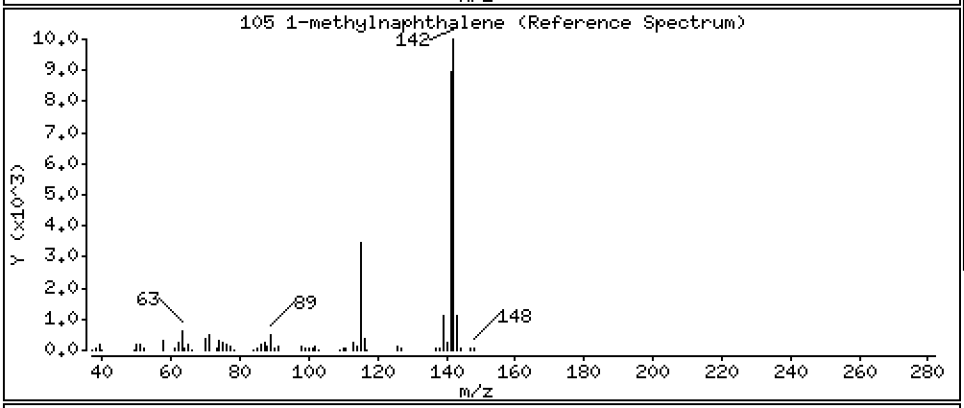
Concentration: 0.06926 ug/mL

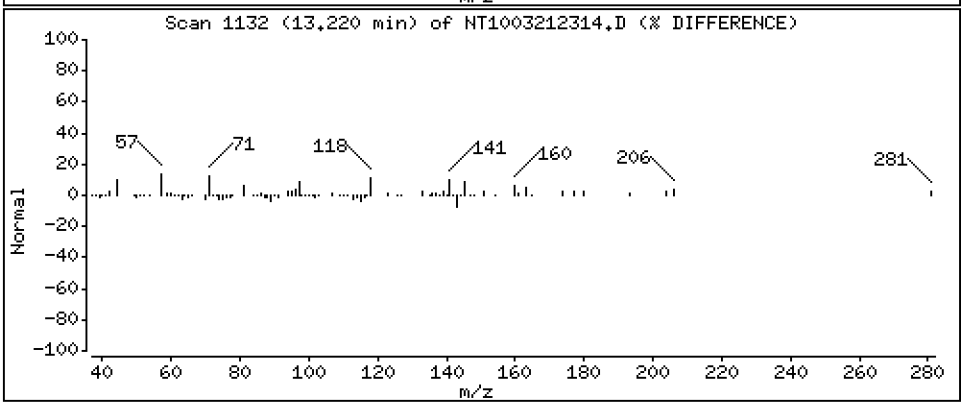












Date : 22-MAR-2023 01:30

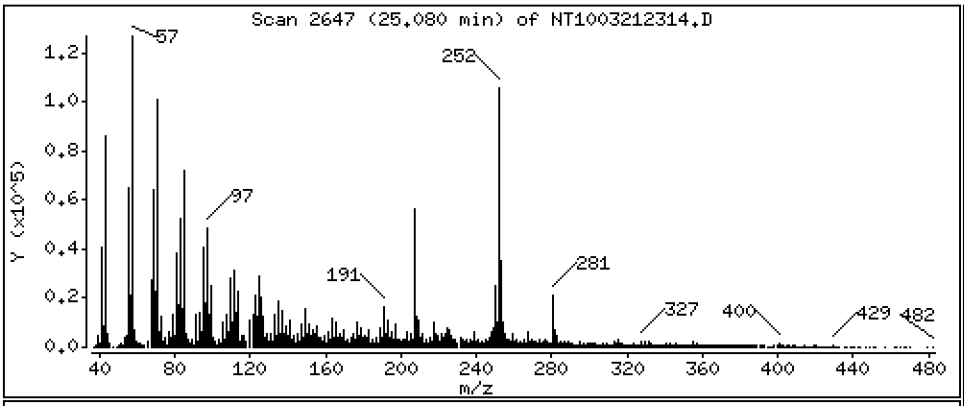
Client ID: Instrument: nt10.i

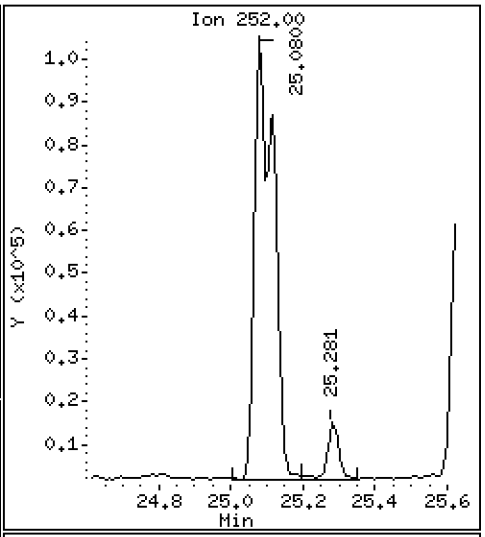
Sample Info: 23C0071-05

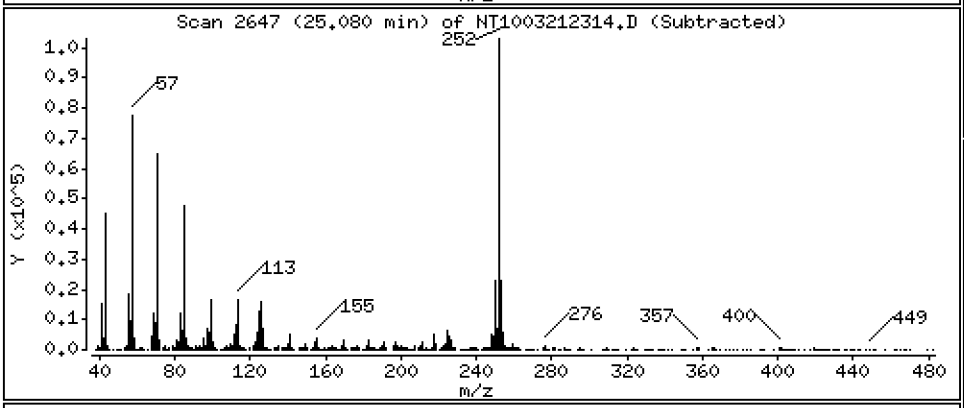
Operator: VTS

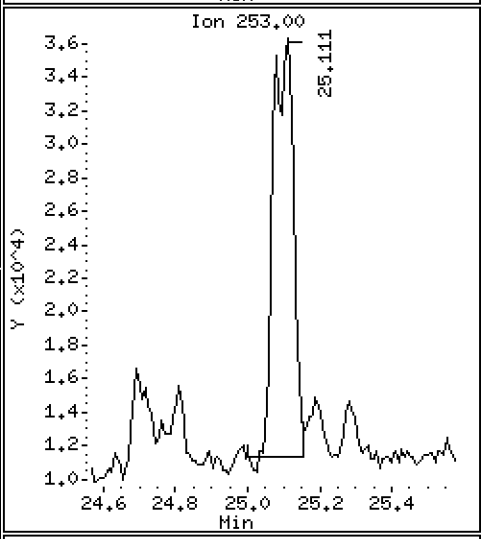
Column phase: ZB-5msi Column diameter: 0.25

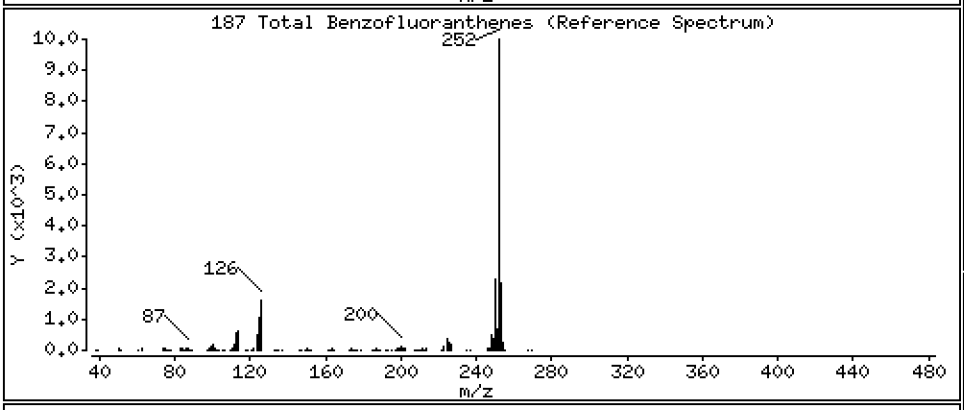
187 Total Benzofluoranthenes Concentration: 1.584 ug/mL

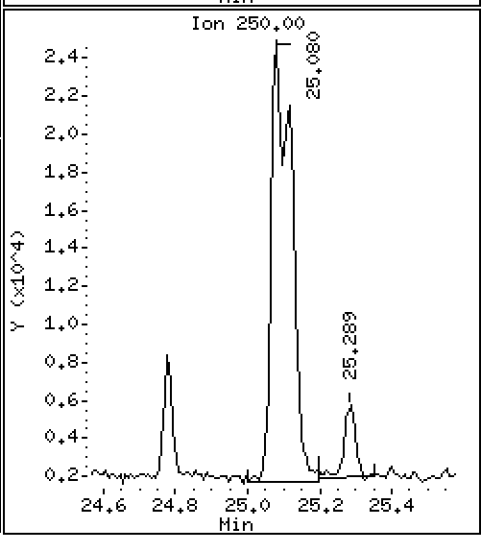


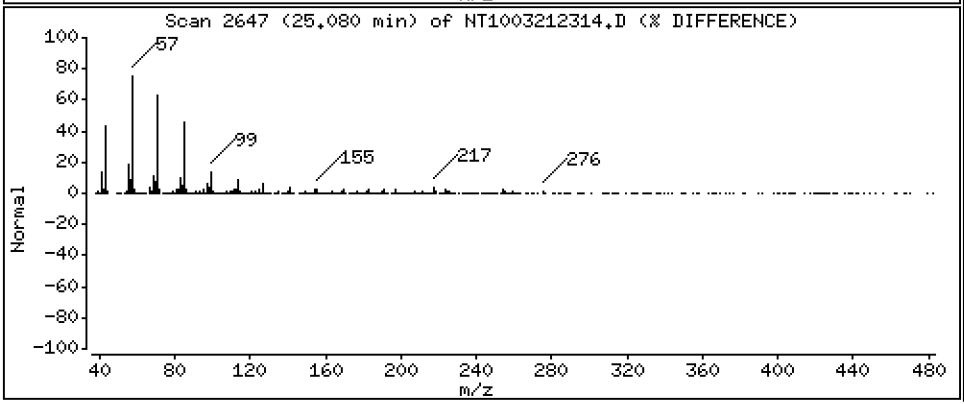












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230321.b\NT1003212314.D
Lab Smp Id: 23C0071-05
Inj Date : 22-MAR-2023 01:30
Operator : VTS Inst ID: nt10.i
Smp Info : 23C0071-05
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230321.b\ABN.m
Meth Date : 29-Mar-2023 06:54 van Quant Type: ISTD
Cal Date : 16-MAR-2023 00:22 Cal File: NT10031508.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)	
$	1 2-Fluorophenol	112	6.890	6.889	(0.729)	338548	5.73356	5.734	
$	2 Phenol-d5	99	8.466	8.473	(0.895)	442171	5.70833	5.708	
	3 Phenol	94	8.489	8.497	(0.898)	16212	0.20141	0.2014	
$	5 2-Chlorophenol-d4	132	8.736	8.744	(0.924)	418742	6.33058	6.331	
	4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.						
	6 2-Chlorophenol	128	Compound Not Detected.						
	7 1,3-Dichlorobenzene	146	Compound Not Detected.						
*	8 1,4-Dichlorobenzene-d4	152	9.100	9.108	(1.000)	195253	4.00000		(H)
	9 1,4-Dichlorobenzene	146	Compound Not Detected.						
$	10 1,2-Dichlorobenzene-d4	152	9.457	9.465	(1.000)	183632	3.86570	3.866	
	12 1,2-Dichlorobenzene	146	Compound Not Detected.						
	11 Benzyl alcohol	108	9.372	9.379	(0.991)	21383	0.56597	0.5660	
	14 2,2'-oxybis(1-Chloropropane)	121	Compound Not Detected.						
	13 2-Methylphenol	108	9.597	9.604	(1.015)	1949	0.03322	0.03322	
	17 Hexachloroethane	117	Compound Not Detected.						
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.						
	15 4-Methylphenol	108	9.869	9.876	(1.044)	6765	0.10942	0.1094	
$	18 Nitrobenzene-d5	82	10.187	10.202	(0.880)	278929	3.96744	3.967	
	19 Nitrobenzene	77	Compound Not Detected.						
	20 Isophorone	82	Compound Not Detected.						
	21 2-Nitrophenol	139	Compound Not Detected.						
	22 2,4-Dimethylphenol	107	Compound Not Detected.						
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.						
	24 Benzoic acid	105	11.011	11.113	(0.952)	36714	1.04121	1.041	(MH)
	25 2,4-Dichlorophenol	162	Compound Not Detected.						
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.						
*	27 Naphthalene-d8	136	11.572	11.587	(1.000)	696525	4.00000		
	28 Naphthalene	128	11.611	11.626	(1.003)	18043	0.09778	0.09778	
	29 4-Chloroaniline	127	Compound Not Detected.						
	30 Hexachlorobutadiene	225	Compound Not Detected.						
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.						
	32 2-Methylnaphthalene	142	13.003	13.018	(1.124)	12836	0.09640	0.09640	
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.						

		QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
	34 2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35 2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36 2-Fluorobiphenyl	172	13.777	13.800	(0.908)	647040	4.29458	4.295
	37 2-Chloronaphthalene	162	Compound Not Detected.					
	38 2-Nitroaniline	65	Compound Not Detected.					
	39 Dimethylphthalate	163	14.675	14.698	(0.967)	7362	0.05950	0.05950
	40 Acenaphthylene	152	14.853	14.876	(0.979)	11894	0.06257	0.06257
	41 2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42 Acenaphthene-d10	164	15.170	15.185	(1.000)	380877	4.00000	
	43 3-Nitroaniline	138	Compound Not Detected.					
	44 Acenaphthene	153	15.232	15.247	(1.004)	8418	0.07168	0.07168
	45 2,4-Dinitrophenol	184	Compound Not Detected.					
	46 Dibenzofuran	168	15.556	15.572	(1.025)	13946	0.08053	0.08053
	47 4-Nitrophenol	109	Compound Not Detected.					
	48 2,4-Dinitrotoluene	165	Compound Not Detected.					
	50 Diethylphthalate	149	16.121	16.144	(1.063)	40612	0.33453	0.3345
	49 Fluorene	166	16.268	16.283	(1.072)	14707	0.10794	0.1079
	51 4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52 4-Nitroaniline	138	Compound Not Detected.					
	53 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54 N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55 2,4,6-Tribromophenol	330	16.800	16.815	(1.107)	154899	8.74403	8.744
	56 4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57 Hexachlorobenzene	284	Compound Not Detected.					
	58 Pentachlorophenol	266	Compound Not Detected.					
*	59 Phenanthrene-d10	188	18.191	18.206	(1.000)	712663	4.00000	
	60 Phenanthrene	178	18.237	18.252	(1.003)	114057	0.58693	0.5869
	61 Anthracene	178	18.330	18.338	(1.008)	47176	0.25308	0.2531
	62 Carbazole	167	18.655	18.670	(1.026)	14793	0.08856	0.08856
	63 Di-n-butylphthalate	149	19.467	19.475	(1.070)	9706	0.04321	0.04321
	64 Fluoranthene	202	20.620	20.620	(0.888)	354194	1.37305	1.373
	65 Pyrene	202	21.038	21.046	(0.906)	344495	1.30183	1.302
$	66 Terphenyl-d14	244	21.332	21.332	(0.918)	839405	4.22392	4.224
	67 Butylbenzylphthalate	149	22.253	22.261	(0.958)	12598	0.13561	0.1356
	68 Benzo(a)anthracene	228	23.198	23.198	(0.999)	155495	0.68620	0.6862
*	69 Chrysene-d12	240	23.229	23.229	(1.000)	641988	4.00000	
	70 3,3'-Dichlorobenzidine	252	Compound Not Detected.					
	71 Chrysene	228	23.276	23.275	(1.002)	237260	1.07170	1.072
	72 bis(2-Ethylhexyl)phthalate	149	23.283	23.283	(0.959)	126484	0.79762	0.7976
*	134 Di-n-octylphthalate-d4	153	24.274	24.266	(1.000)	1083812	4.00000	
	73 Di-n-octylphthalate	149	Compound Not Detected.					
	74 Benzo(b)fluoranthene	252	25.079	25.071	(0.970)	201396	0.81414	0.8141
	75 Benzo(k)fluoranthene	252	25.118	25.118	(0.972)	204719	0.81501	0.8150(M)
	76 Benzo(a)pyrene	252	25.730	25.722	(0.996)	141428	0.63947	0.6395
*	77 Perylene-d12	264	25.846	25.830	(1.000)	763139	4.00000	
	78 Indeno(1,2,3-cd)pyrene	276	28.490	28.466	(1.102)	91699	0.32590	0.3259
	79 Dibenzo(a,h)anthracene	278	28.498	28.482	(1.103)	24404	0.10447	0.1045(M)
	80 Benzo(g,h,i)perylene	276	29.267	29.235	(1.132)	89259	0.36656	0.3666
	90 N-Nitrosodimethylamine	74	Compound Not Detected.					
	91 Aniline	93	Compound Not Detected.					
	93 Benzidine	184	Compound Not Detected.					
	103 Pyridine	79	Compound Not Detected.					
	105 1-methylnaphthalene	142	13.220	13.243	(1.142)	8450	0.06926	0.06926
	111 Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.079	25.118	(0.970)	378261	1.58372	1.584
120 2,3,4,6-Tetrachlorophenol	232	Compound Not Detected.					

QC Flag Legend

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

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1003212314.D
Lab Smp Id: 23C0071-05
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230321.b\ABN.m
Misc Info:

Calibration Date: 21-MAR-2023
Calibration Time: 17:46
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	138414	69207	276828	195253	41.06
27 Naphthalene-d8	511348	255674	1022696	696525	36.21
42 Acenaphthene-d10	293241	146621	586482	380877	29.89
59 Phenanthrene-d10	535484	267742	1070968	712663	33.09
69 Chrysene-d12	464733	232367	929466	641988	38.14
134 Di-n-octylphthala	716354	358177	1432708	1083812	51.30
77 Perylene-d12	509704	254852	1019408	763139	49.72

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.11	8.61	9.61	9.10	-0.08
27 Naphthalene-d8	11.59	11.09	12.09	11.57	-0.13
42 Acenaphthene-d10	15.19	14.69	15.69	15.17	-0.10
59 Phenanthrene-d10	18.21	17.71	18.71	18.19	-0.08
69 Chrysene-d12	23.23	22.73	23.73	23.23	0.00
134 Di-n-octylphthala	24.27	23.77	24.77	24.27	0.03
77 Perylene-d12	25.83	25.33	26.33	25.85	0.06

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

REVIEW SUMMARY FOR FILE - NT1003212314.D

Lab ID: 23C0071-05
nt10.i, 20230321.b\ABN.m,   22-MAR-2023 01:30

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.952	0.959	-0.0075	Benzoic acid

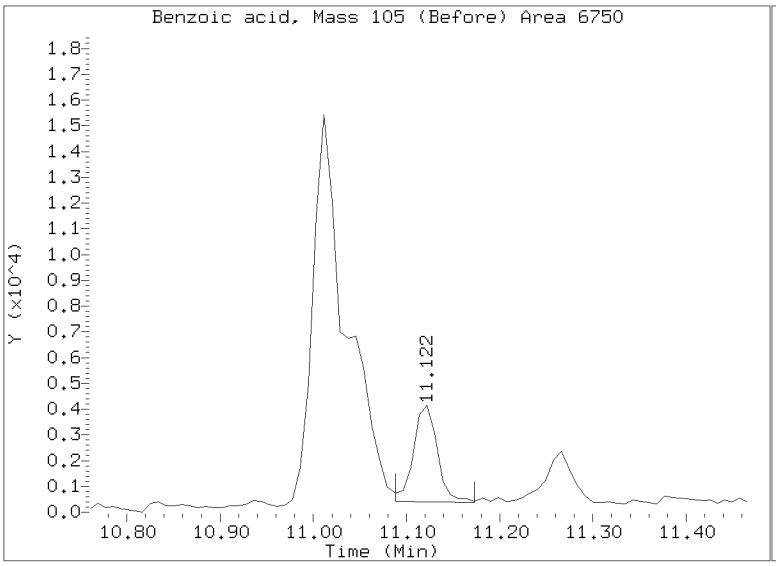
RRT check based on Ccal File: NT1003212302.D

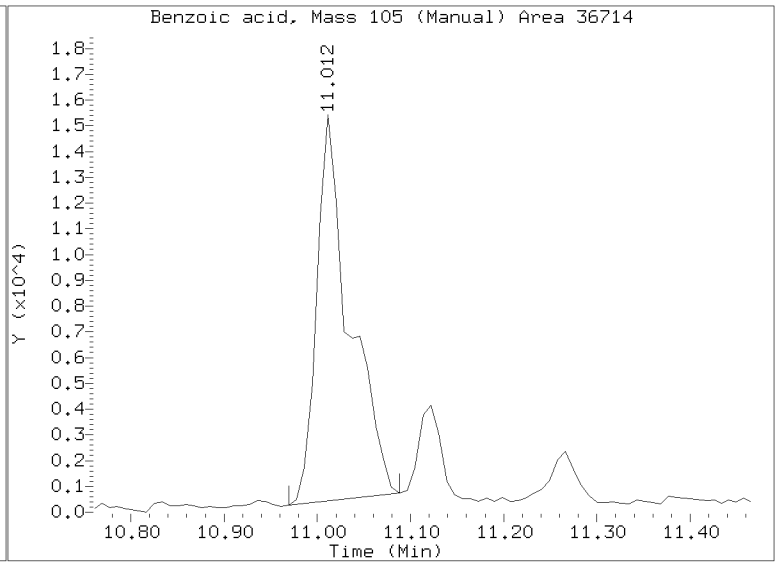
On Column LOD for nt10.i, 20230321.b\ABN.m, ICAL.sub = 0.0000

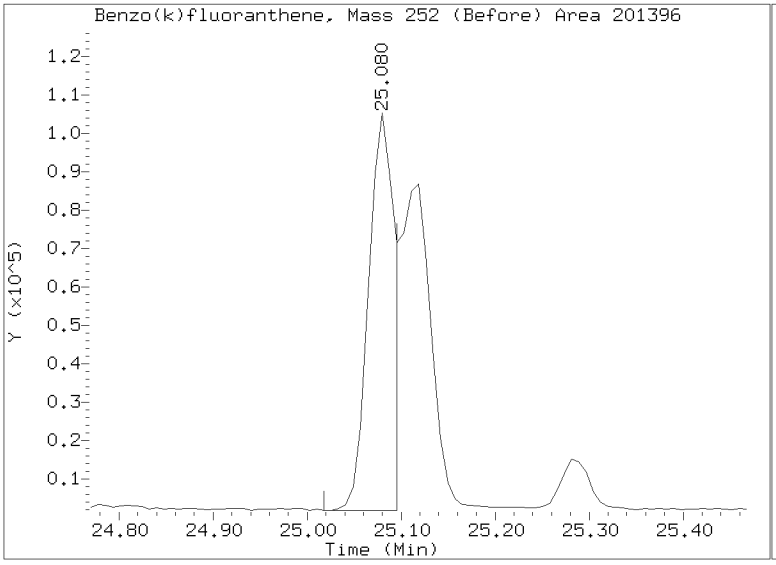
* Only compounds listed in the work order have been verified by the analyst *

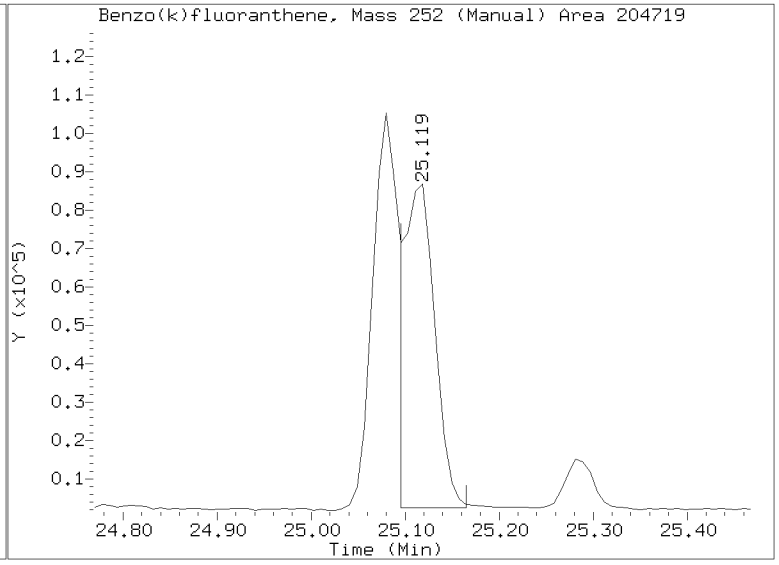
Quant Ion Manual Peak Adjustment Report

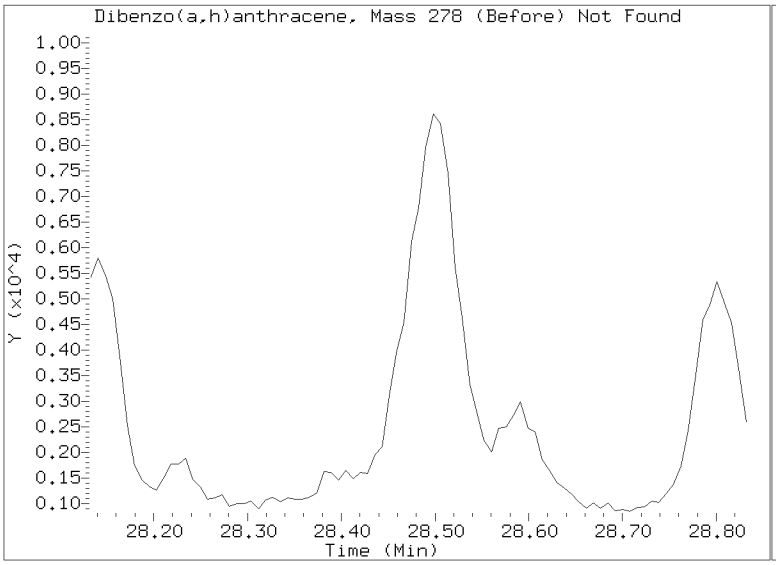
Datafile: //target/share/chem3/nt10.i/20230321.b/NT1003212314.D
Injection Date: 22-MAR-2023 01:30
Lab ID:23C0071-05 Client ID:
Report Date: 03/29/2023 08:03

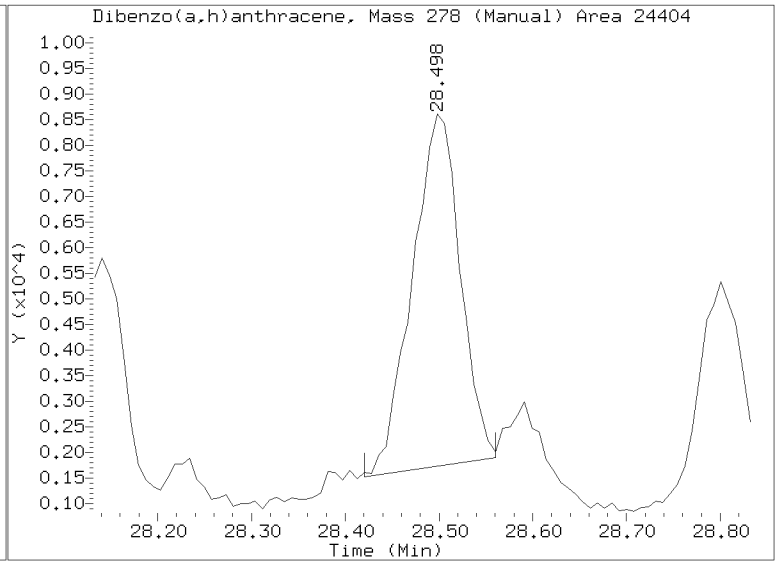












LDW23-SS1054

Form I

ORGANIC ANALYSIS DATA SHEET

EPA 8270E

Semivolatiles (20ug/kg - 0.2ug/L SepF)

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0071-06 A	SDG:	23C0071
Sampled:	03/02/23 10:41	Prepared:	03/07/23 10:21	File ID:	NT1003212317.D
% Solids:	50.43	Preparation:	EPA 3546 (Microwave)	Analyzed:	03/22/23 03:25
Batch:	BLC0109	Sequence:	SLC0451	Initial/Final:	19.99 g Wet / 1 mL
Instrument:	NT10	Column:	ZB-5MSi	Calibration:	GC00046
Cleanups:	GPC				

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
108-95-2	Phenol	1	21.9		4.4	19.8
106-44-5	4-Methylphenol	1	19.1	J	7.3	19.8
91-20-3	Naphthalene	1	22.6		4.2	19.8
91-57-6	2-Methylnaphthalene	1	18.5	J	4.5	19.8
208-96-8	Acenaphthylene	1	13.3	J	6.2	19.8
131-11-3	Dimethylphthalate	1	14.8	J	4.4	19.8
83-32-9	Acenaphthene	1	17.1	J	5.2	19.8
132-64-9	Dibenzofuran	1	17.9	J	14.0	19.8
86-73-7	Fluorene	1	17.1	J	14.5	19.8
85-01-8	Phenanthrene	1	70.9		8.6	19.8
120-12-7	Anthracene	1	43.5		7.1	19.8
206-44-0	Fluoranthene	1	203		6.0	19.8
129-00-0	Pyrene	1	231		5.6	19.8
85-68-7	Butylbenzylphthalate	1	11.5	J	9.3	19.8
56-55-3	Benzo(a)anthracene	1	105		5.9	19.8
218-01-9	Chrysene	1	138		6.0	19.8
117-81-7	bis(2-Ethylhexyl)phthalate	1	120		5.4	49.6
	Benzofluoranthenes, Total	1	270		9.9	39.7
50-32-8	Benzo(a)pyrene	1	103		4.2	19.8
193-39-5	Indeno(1,2,3-cd)pyrene	1	50.2		14.5	19.8
53-70-3	Dibenzo(a,h)anthracene	1	19.8	U	17.1	19.8
191-24-2	Benzo(g,h,i)perylene	1	55.2		13.5	19.8

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorophenol	743.98	400	53.8	27 - 120	
Phenol-d5	743.98	418	56.2	29 - 120	
2-Chlorophenol-d4	743.98	478	64.3	31 - 120	
1,2-Dichlorobenzene-d4	495.98	295	59.4	32 - 120	
Nitrobenzene-d5	495.98	307	61.8	30 - 120	
2-Fluorobiphenyl	495.98	335	67.6	35 - 120	

Analytical Resources, LLC
Analytical Chemists and Consultants

LDW23-SS1054

Form I

ORGANIC ANALYSIS DATA SHEET

EPA 8270E

Semivolatiles (20ug/kg - 0.2ug/L SepF)

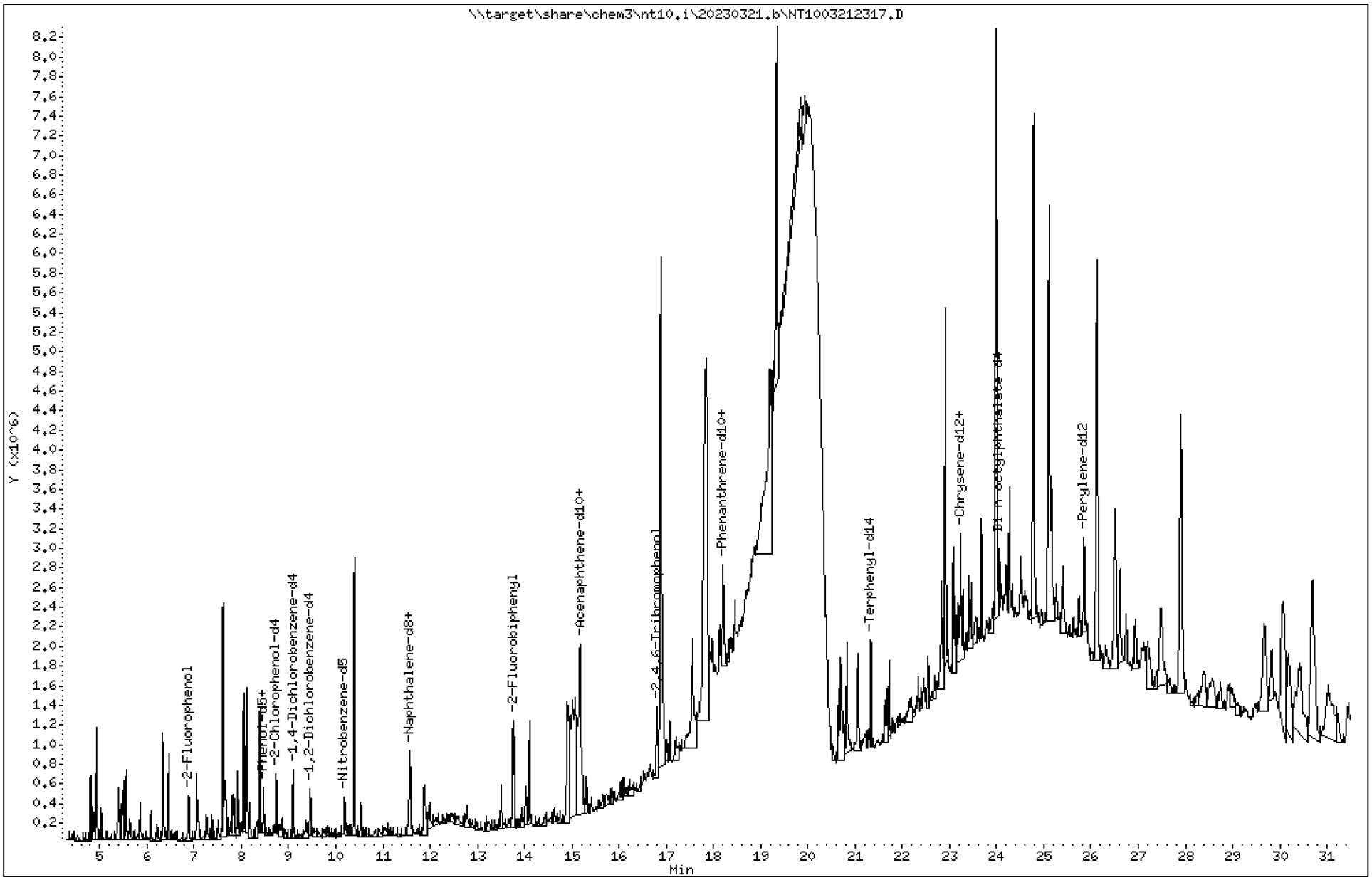
Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0071-06 A	SDG:	23C0071
Sampled:	03/02/23 10:41	Prepared:	03/07/23 10:21	File ID:	NT1003212317.D
% Solids:	50.43	Preparation:	EPA 3546 (Microwave)	Analyzed:	03/22/23 03:25
Batch:	BLC0109	Sequence:	SLC0451	Initial/Final:	19.99 g Wet / 1 mL
Instrument:	NT10	Column:	ZB-5MSi	Calibration:	GC00046
Cleanups:	GPC				

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2,4,6-Tribromophenol	743.98	641	86.2	24 - 134	
p-Terphenyl-d14	495.98	334	67.4	37 - 120	

Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212317.D
Date : 22-MAR-2023 03:25
Client ID:
Sample Info: 23C0071-06

Instrument: nt10.i
Operator: VTS
Column diameter: 0.25

Column phase: ZB-5msi



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Date : 22-MAR-2023 03:25

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-06

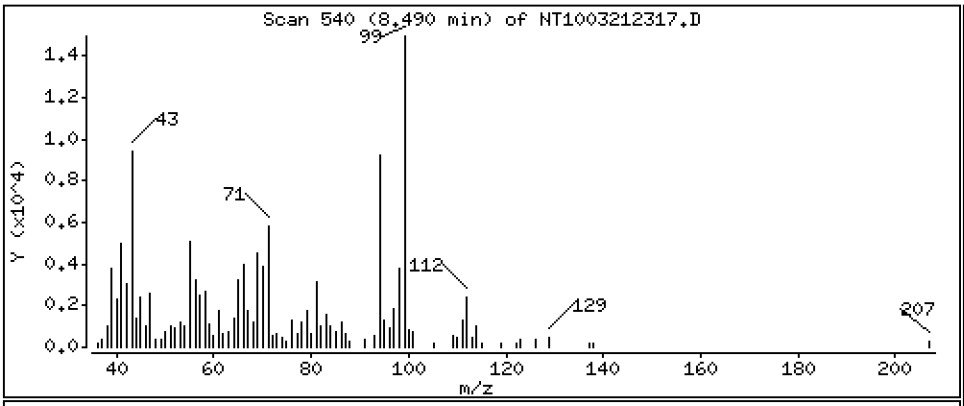
Operator: VTS

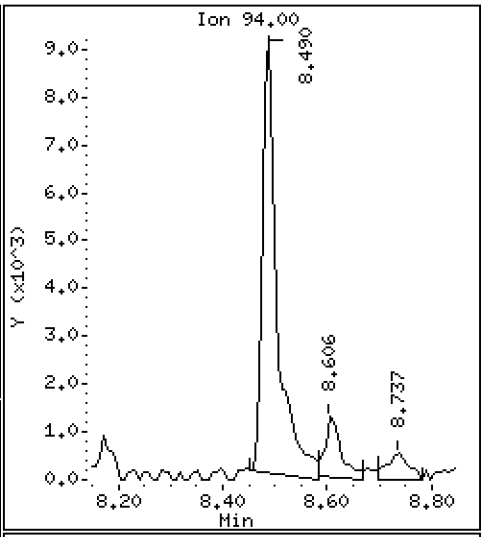
Column phase: ZB-5msi

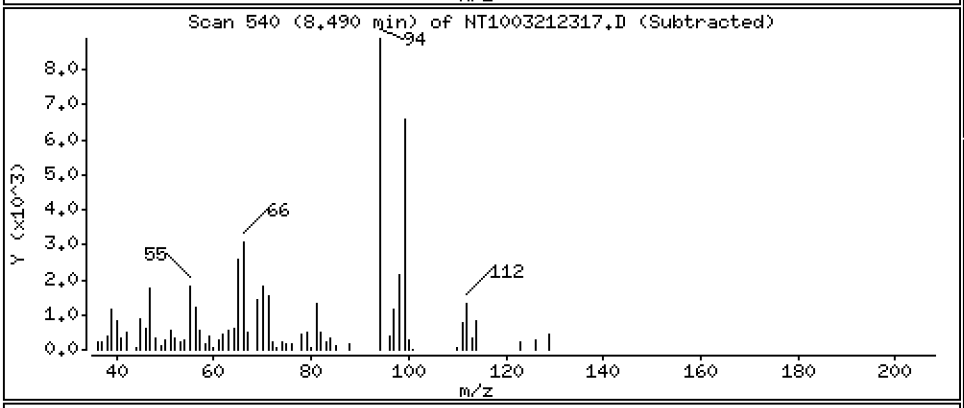
Column diameter: 0.25

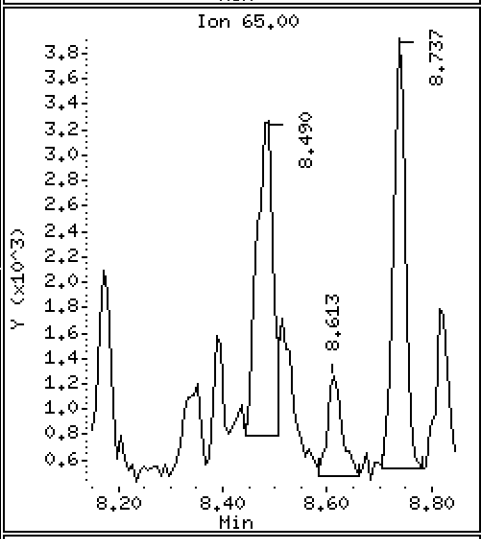
3 Phenol

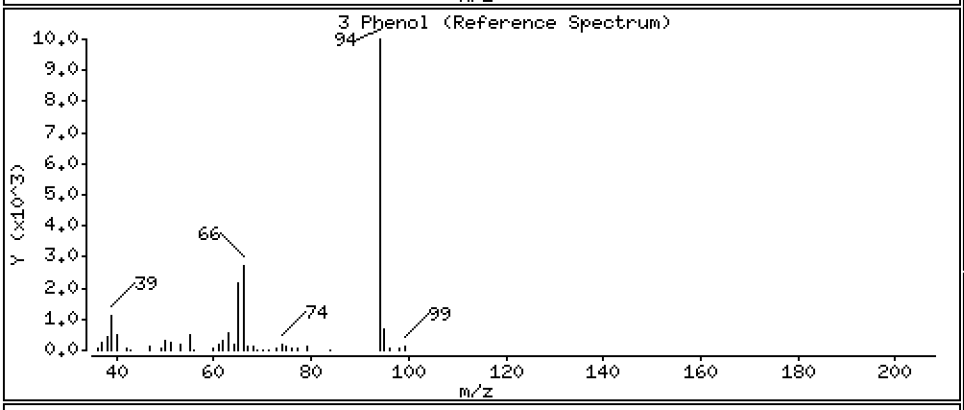
Concentration: 0.2209 ug/mL

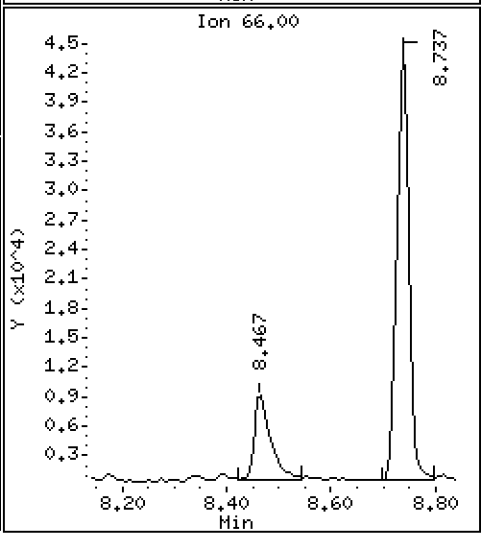


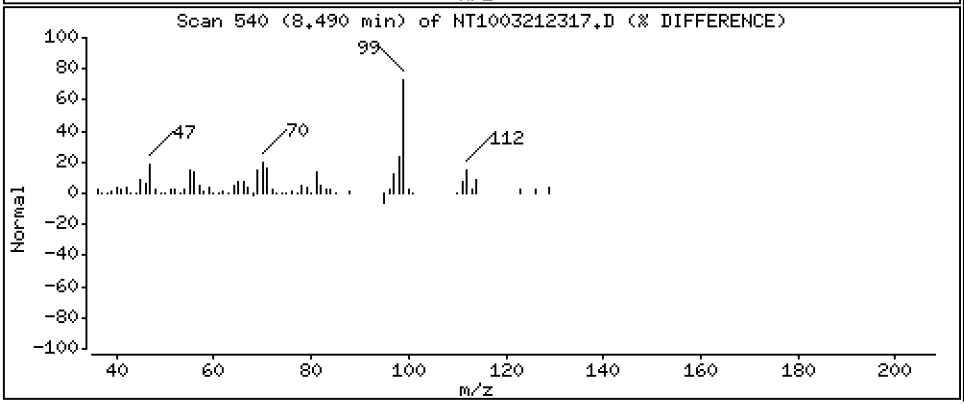












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Date : 22-MAR-2023 03:25

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-06

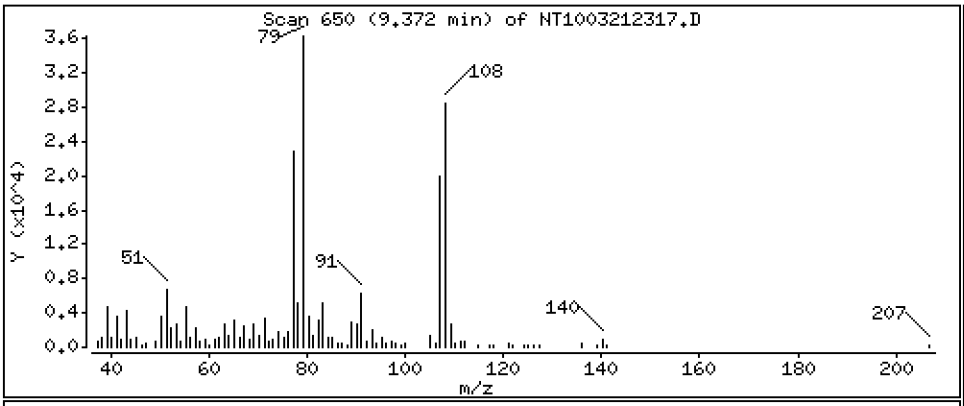
Operator: VTS

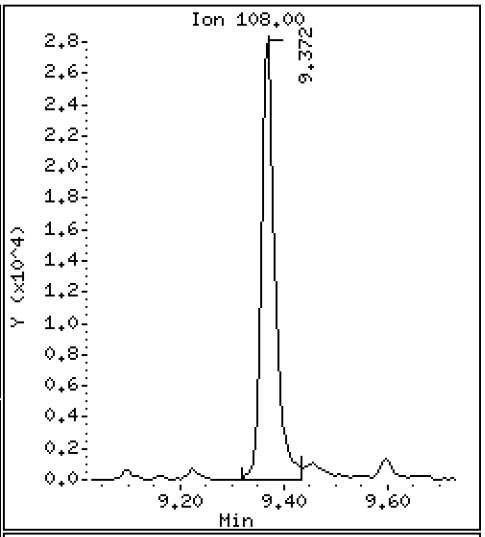
Column phase: ZB-5msi

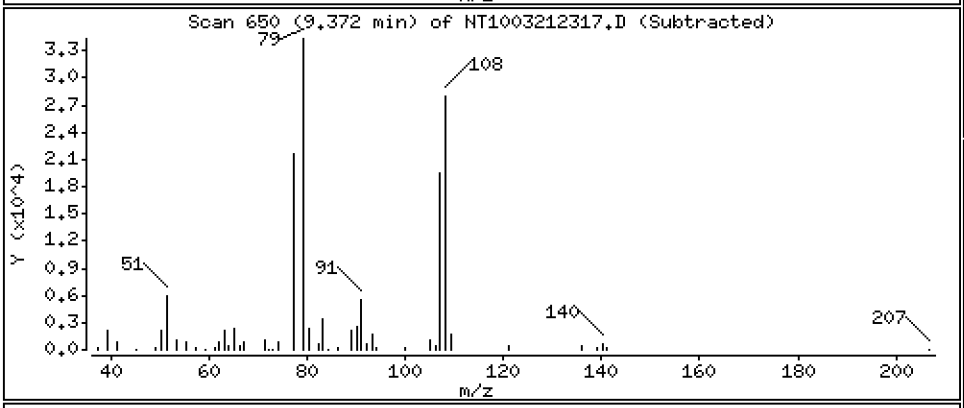
Column diameter: 0.25

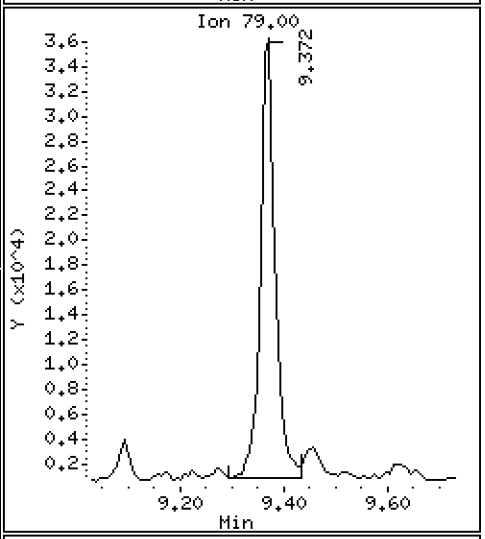
11 Benzyl alcohol

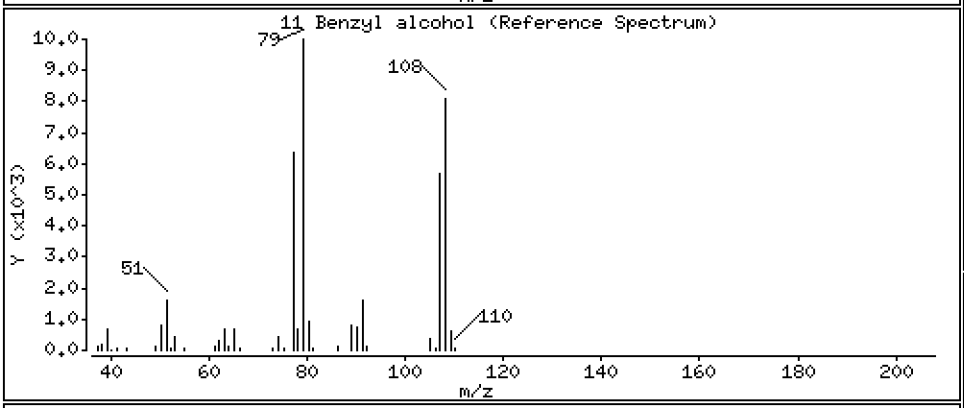
Concentration: 1.396 ug/mL

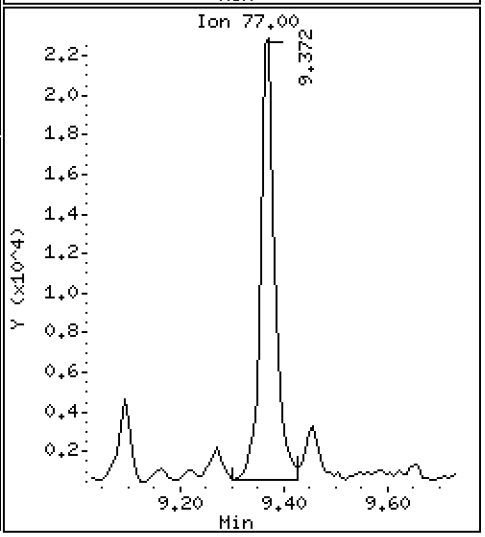


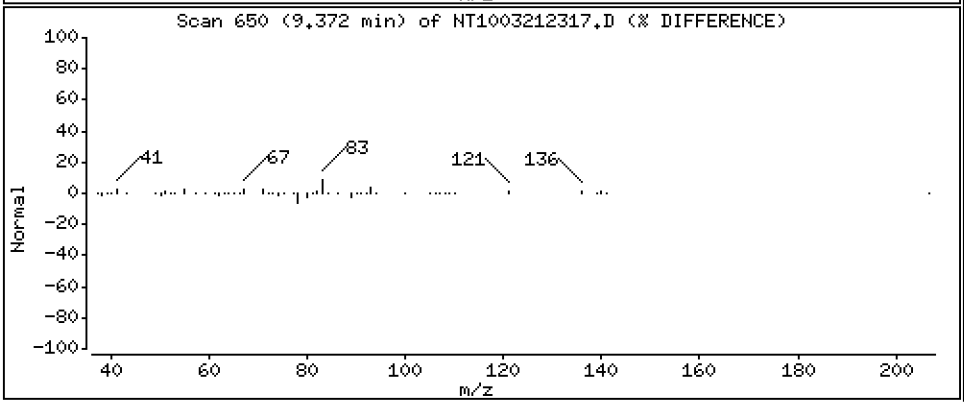












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Date : 22-MAR-2023 03:25

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-06

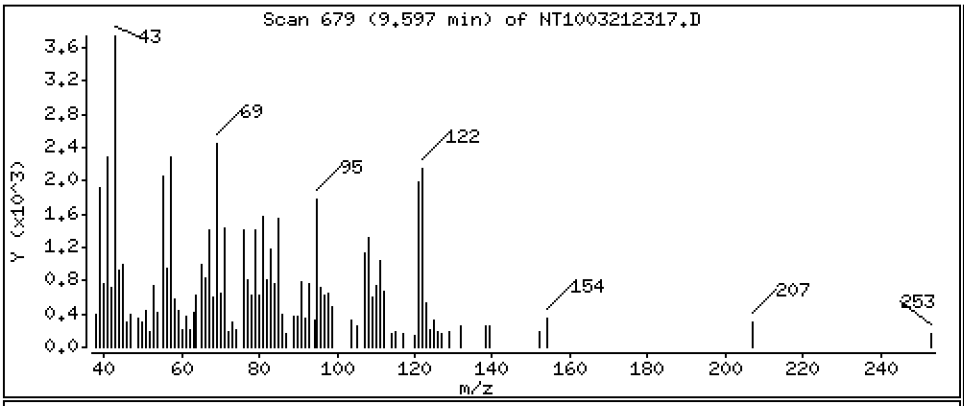
Operator: VTS

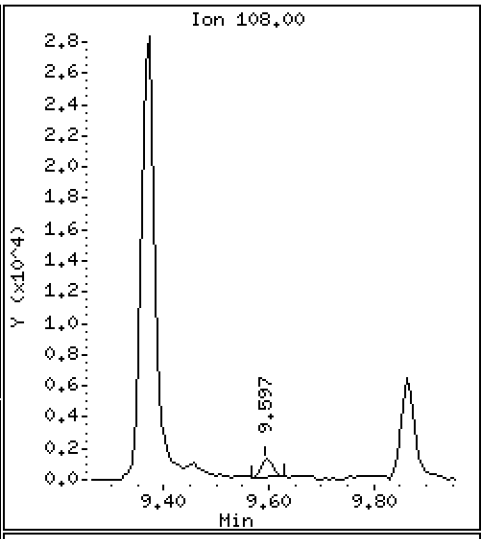
Column phase: ZB-5msi

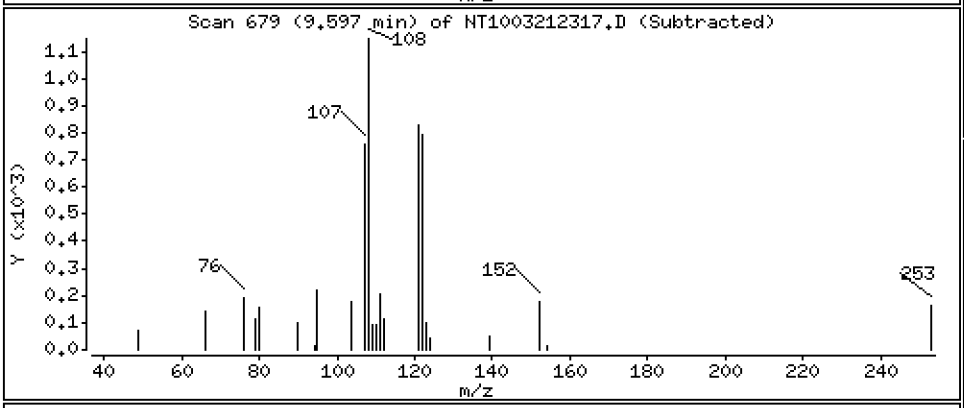
Column diameter: 0.25

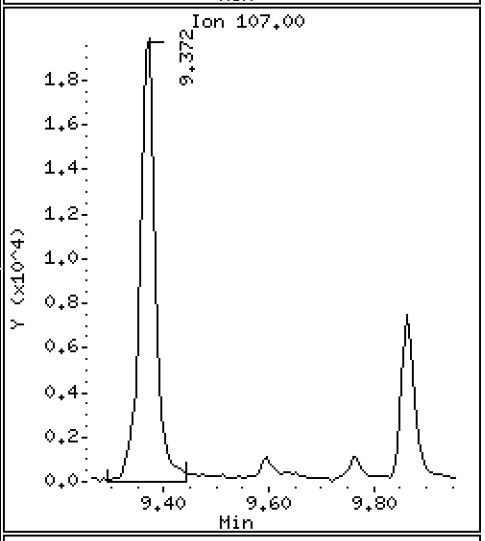
13 2-Methylphenol

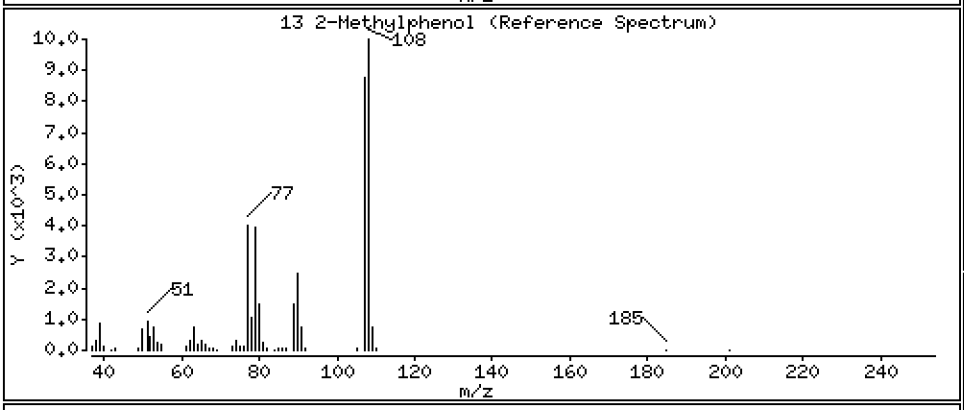
Concentration: 0.02940 ug/mL

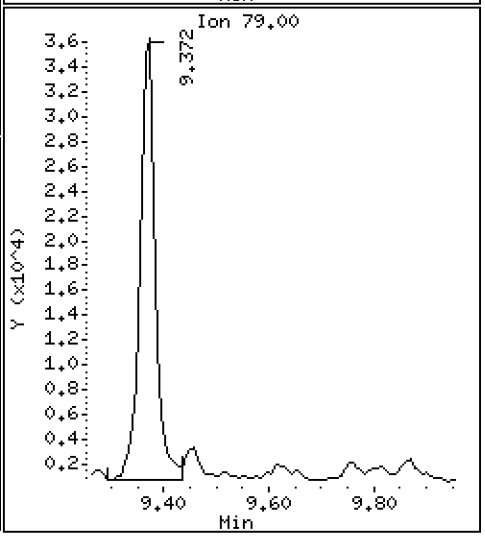


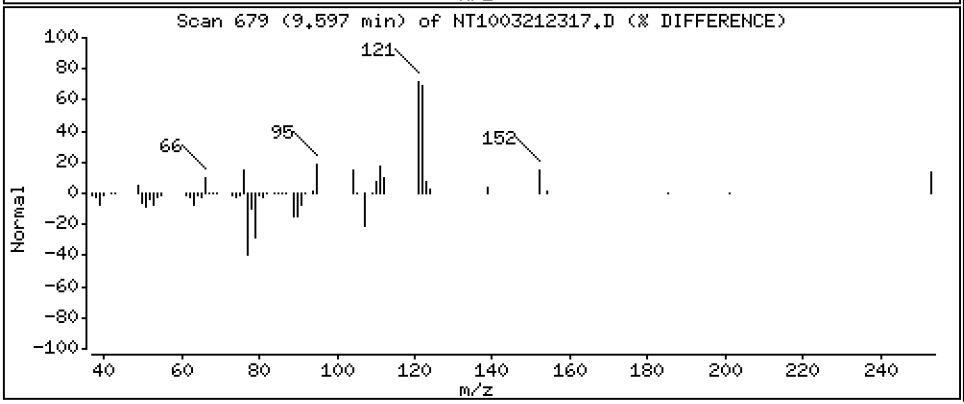












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212317.D

Date : 22-MAR-2023 03:25

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-06

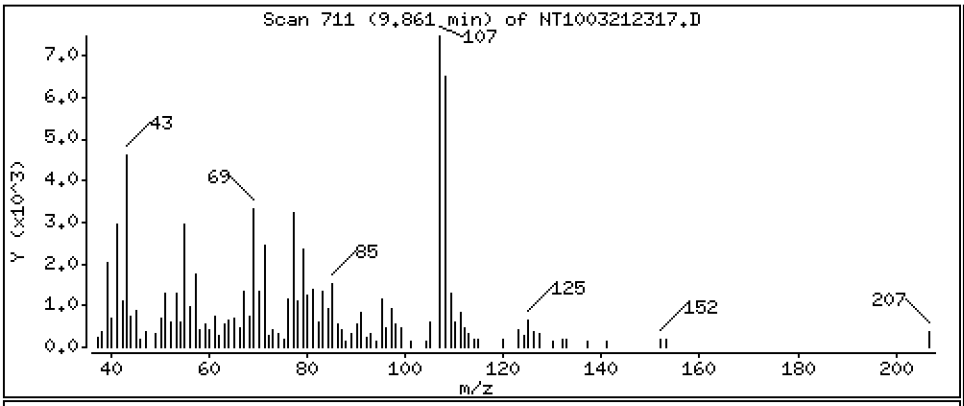
Operator: VTS

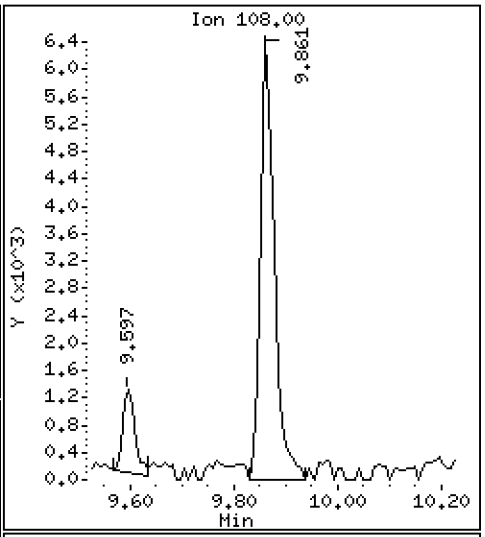
Column phase: ZB-5msi

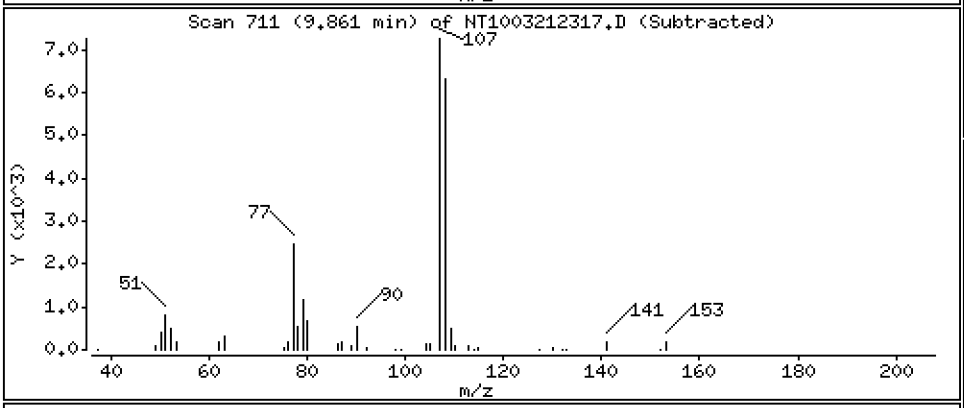
Column diameter: 0.25

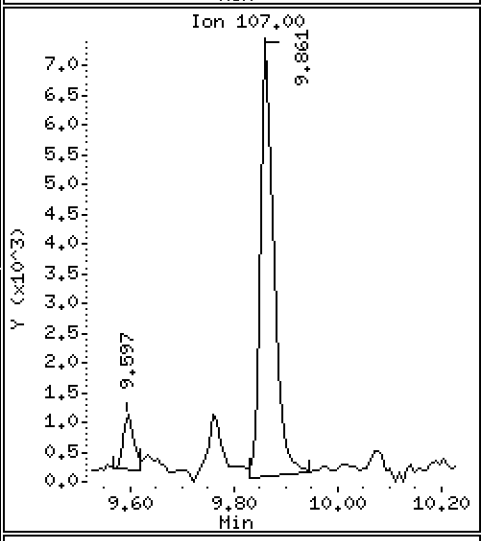
15 4-Methylphenol

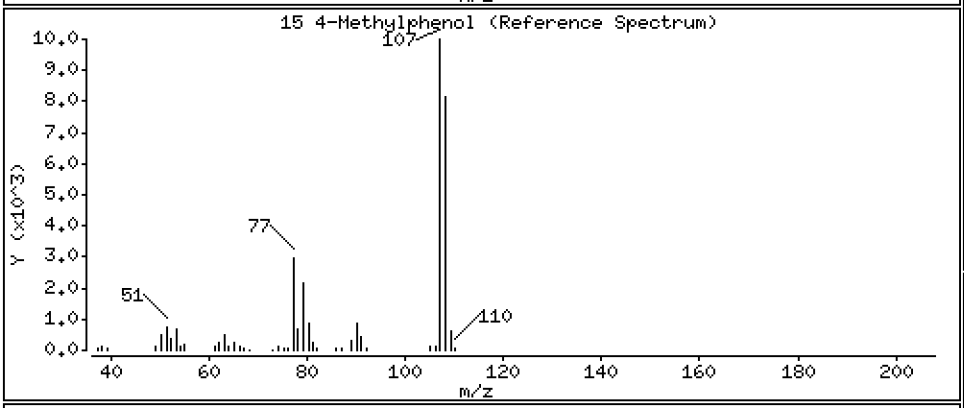
Concentration: 0.1930 ug/mL

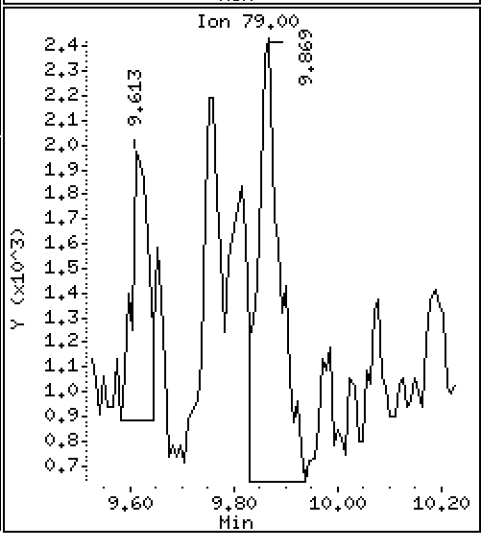


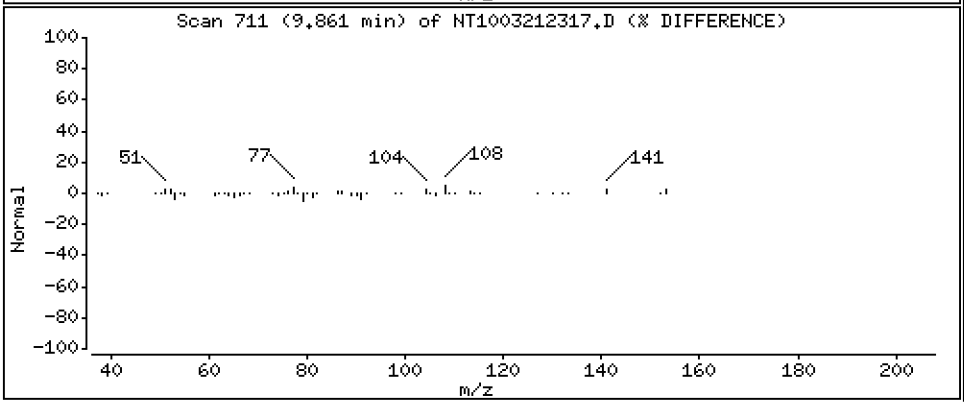












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212317.D

Date : 22-MAR-2023 03:25

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-06

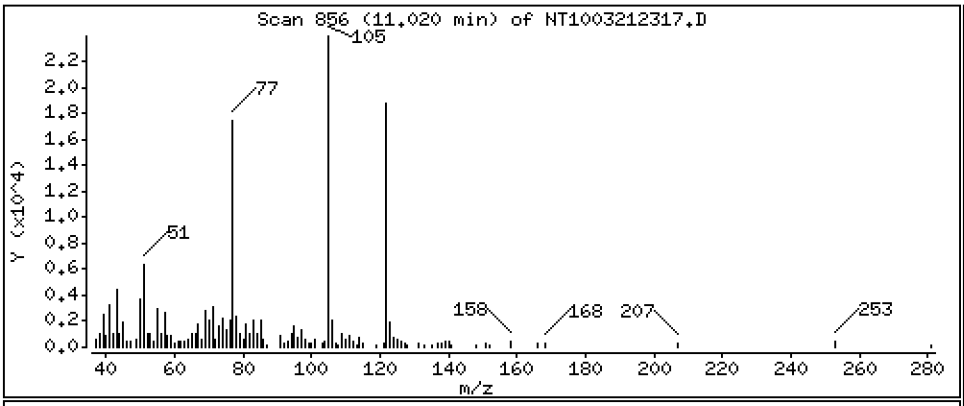
Operator: VTS

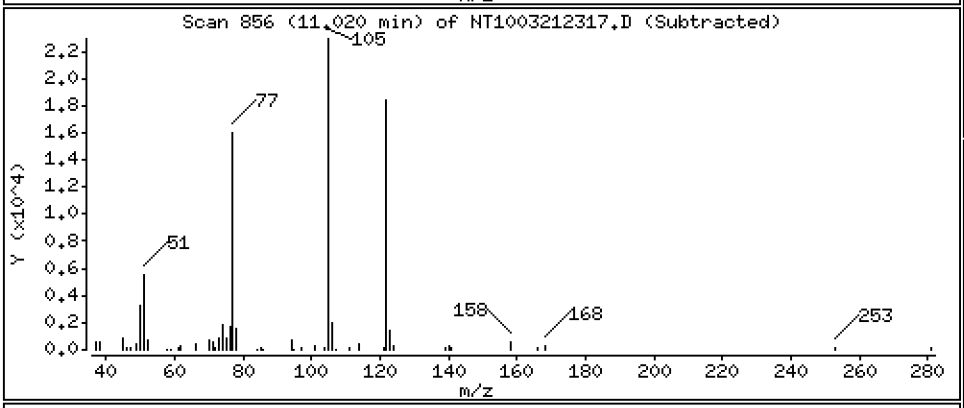
Column phase: ZB-5msi

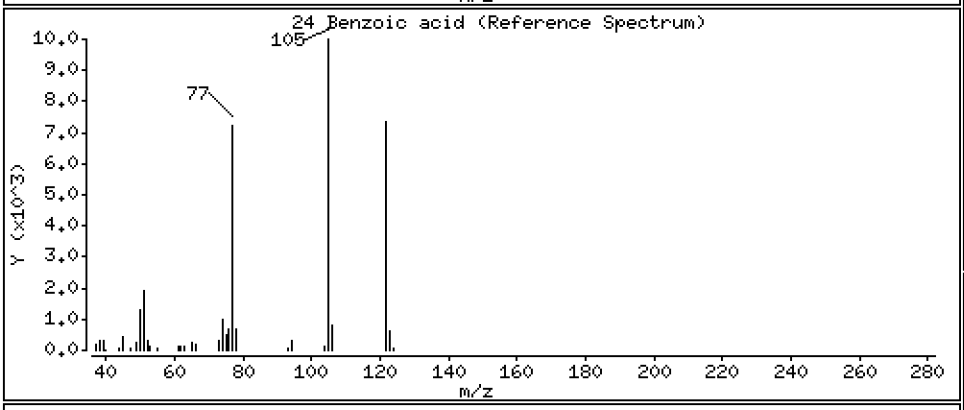
Column diameter: 0.25

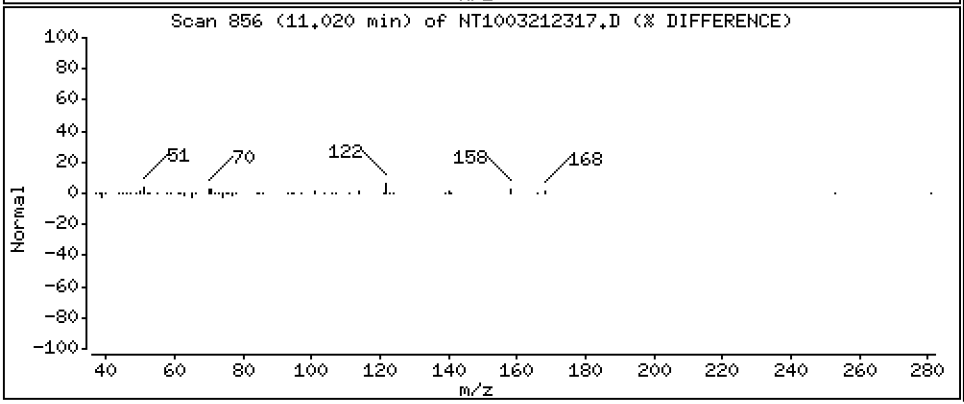
24 Benzoic acid

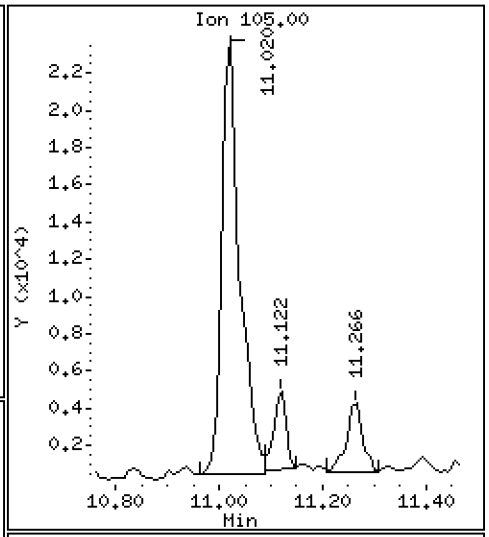
Concentration: 1.656 ug/mL

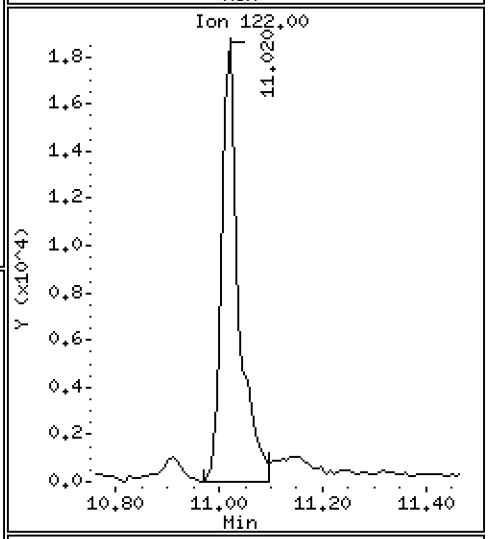


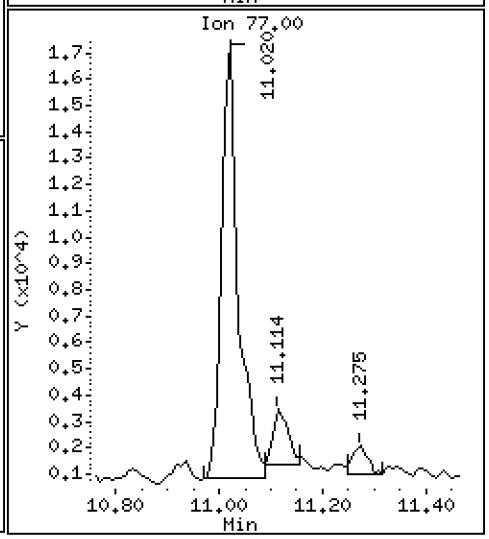












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212317.D

Date : 22-MAR-2023 03:25

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-06

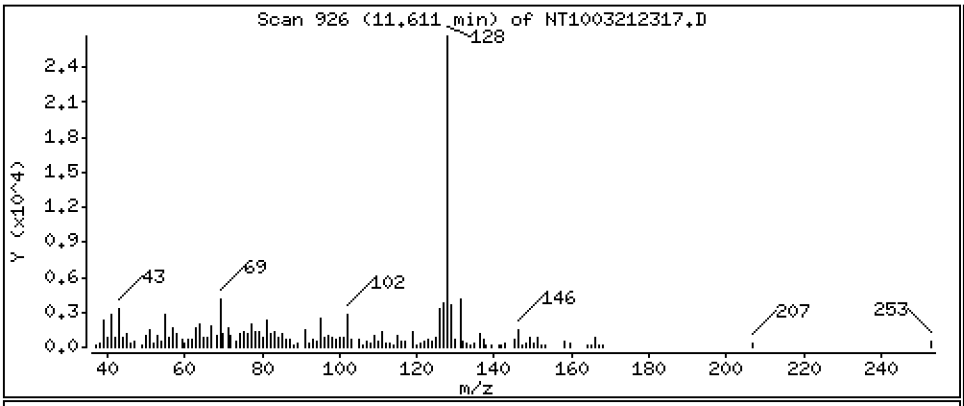
Operator: VTS

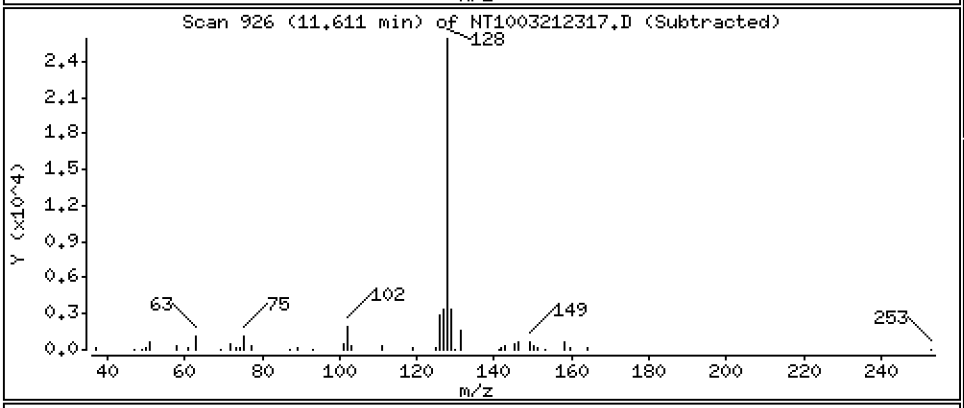
Column phase: ZB-5msi

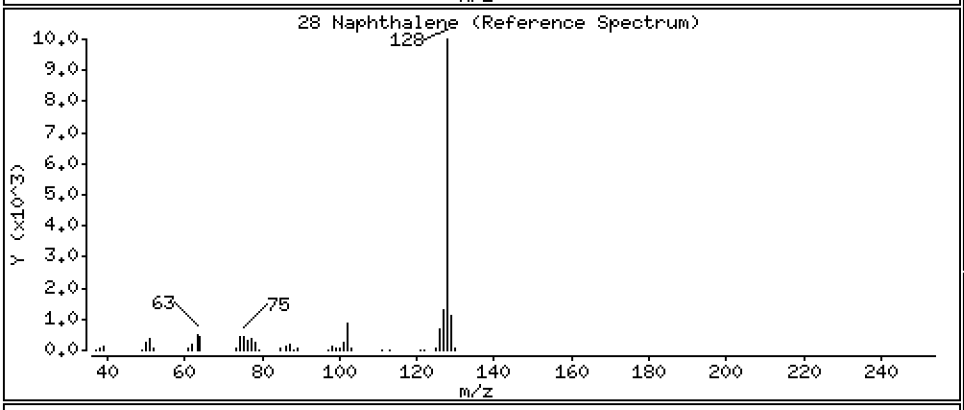
Column diameter: 0.25

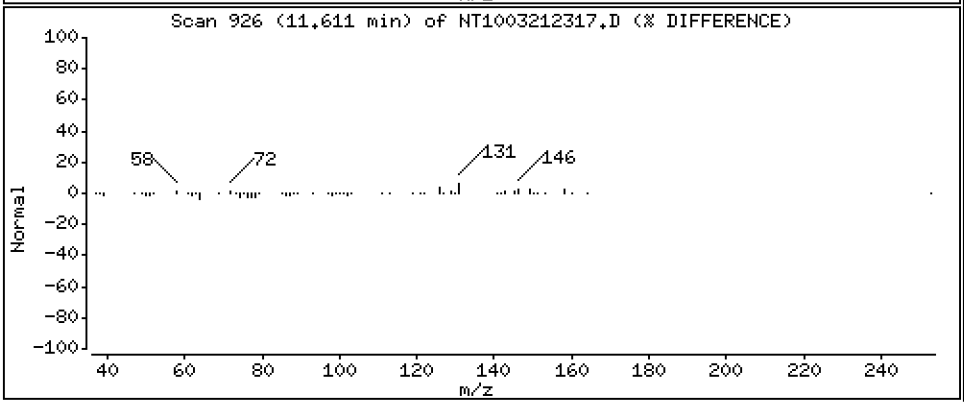
28 Naphthalene

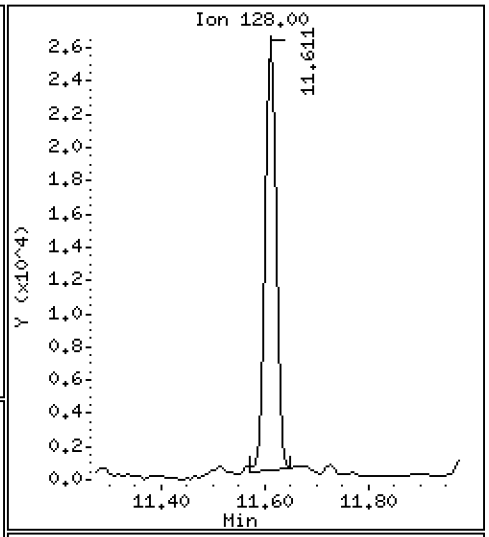
Concentration: 0.2282 ug/mL

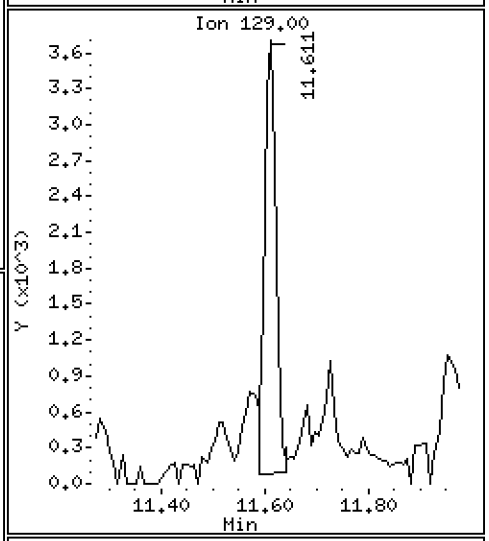


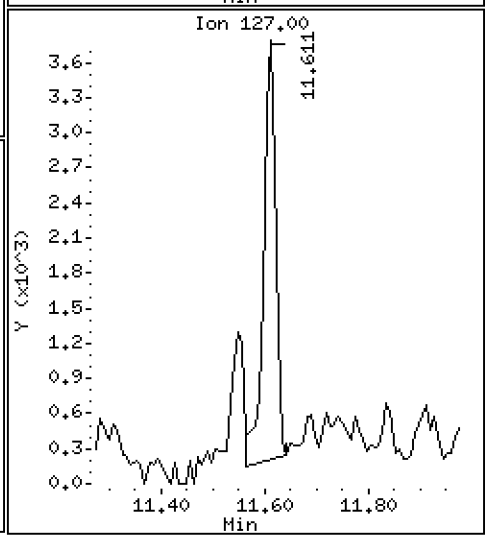












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Date : 22-MAR-2023 03:25

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-06

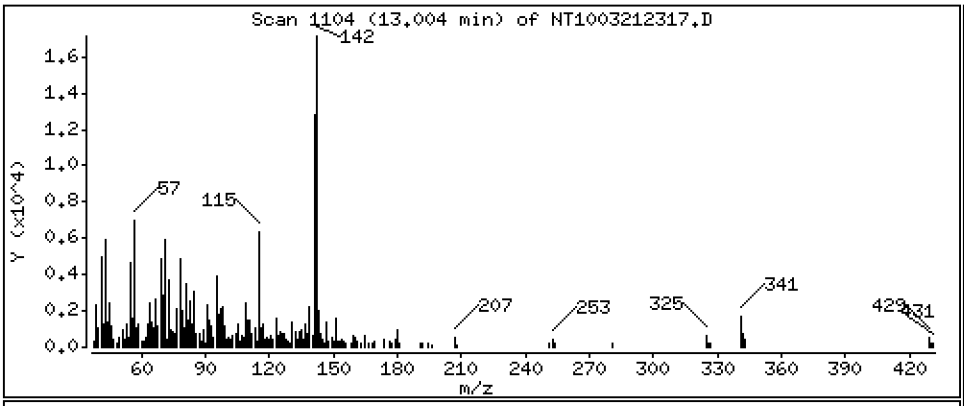
Operator: VTS

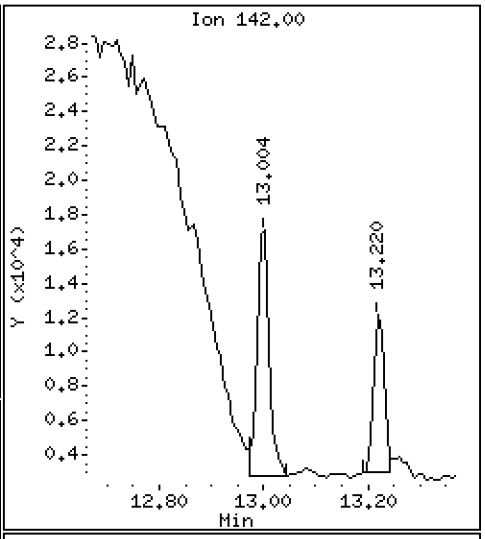
Column phase: ZB-5msi

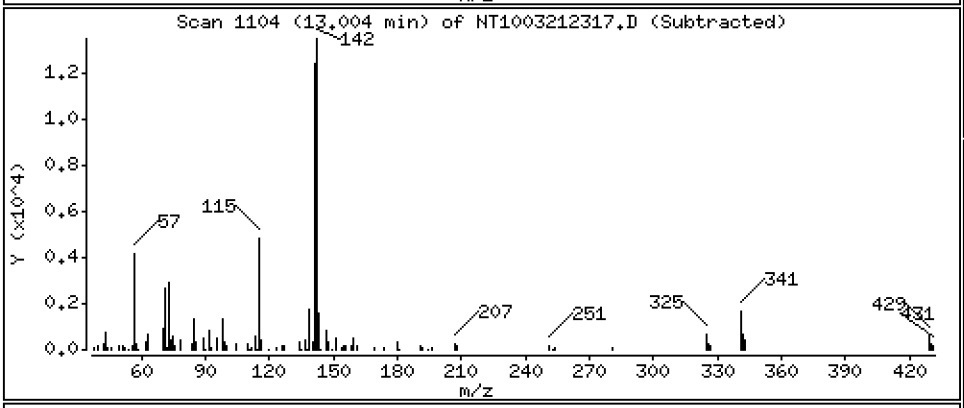
Column diameter: 0.25

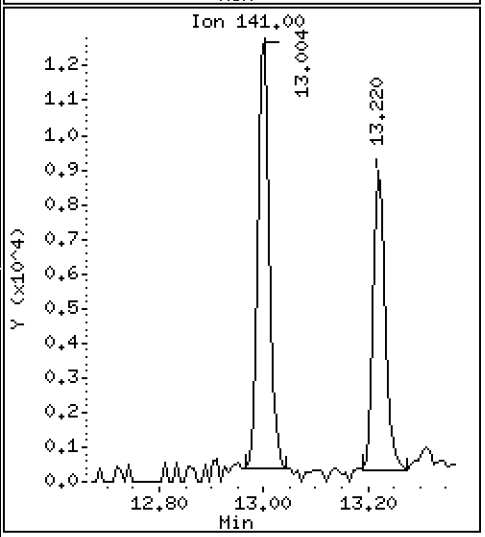
32 2-Methylnaphthalene

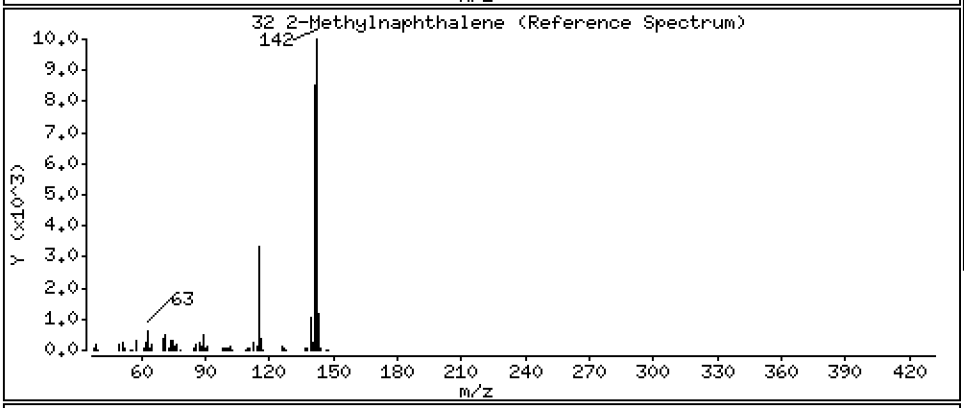
Concentration: 0.1863 ug/mL

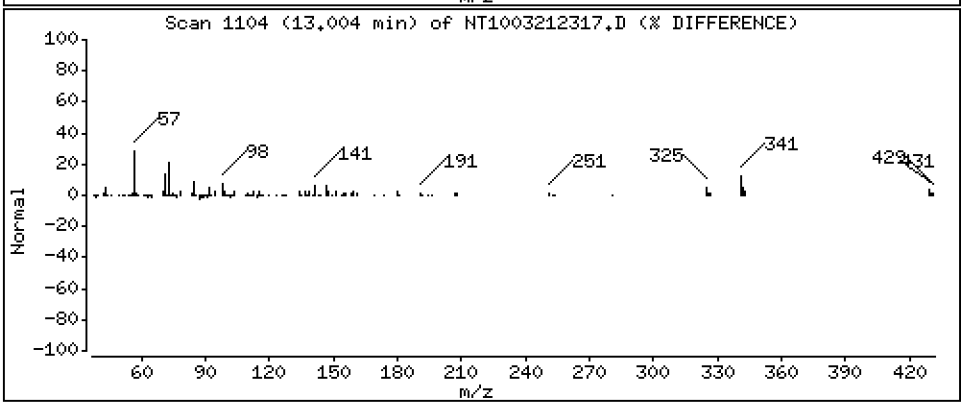












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212317.D

Date : 22-MAR-2023 03:25

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-06

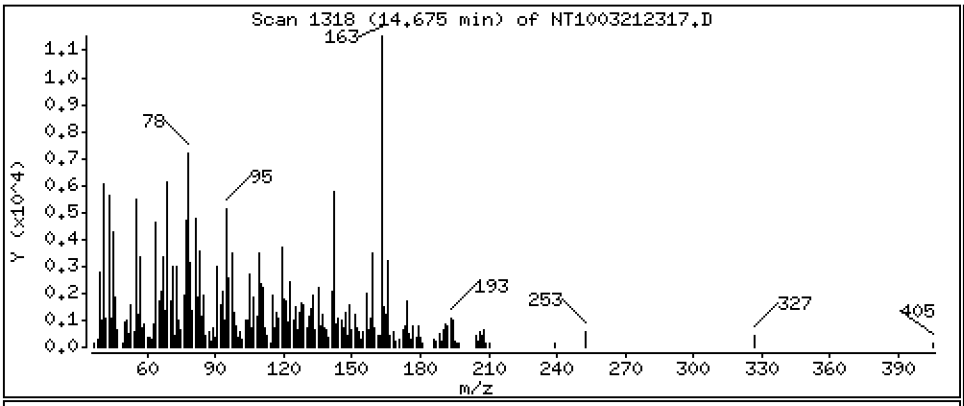
Operator: VTS

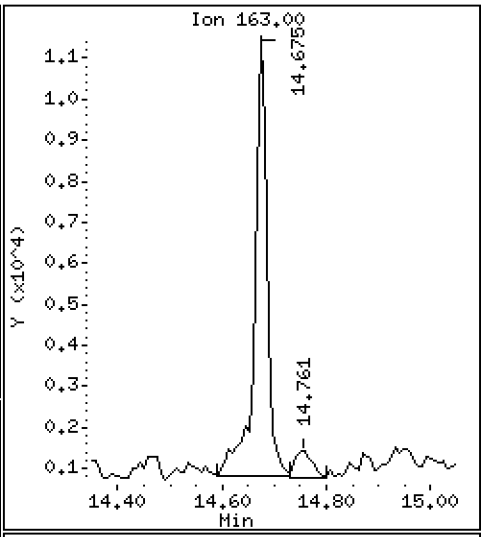
Column phase: ZB-5msi

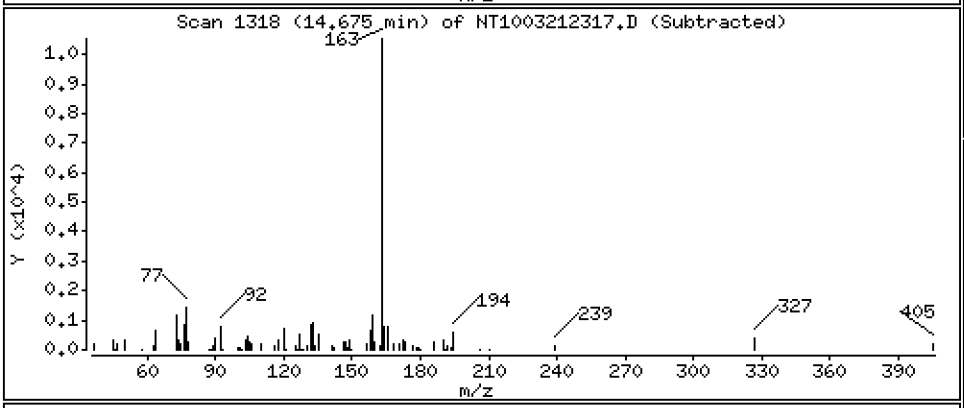
Column diameter: 0.25

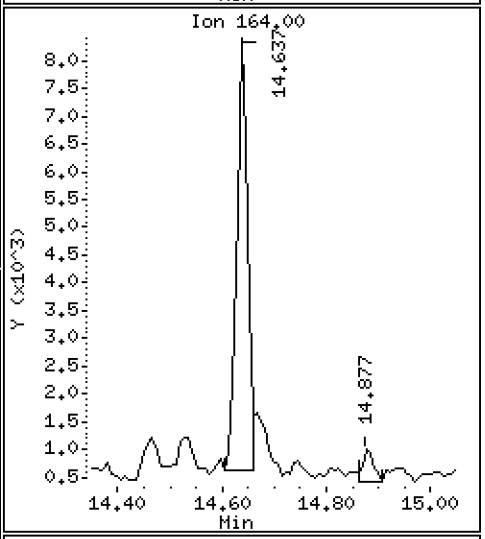
39 Dimethylphthalate

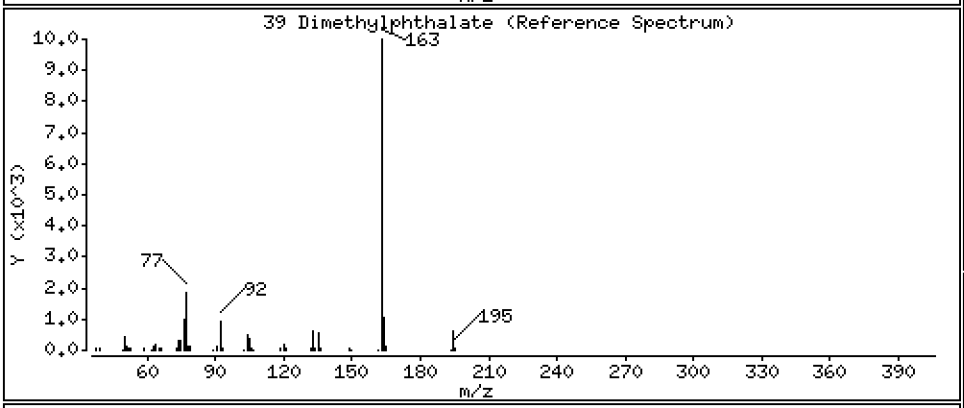
Concentration: 0.1490 ug/mL

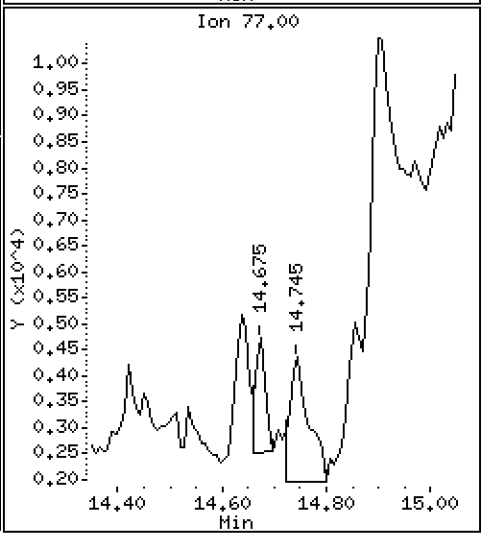


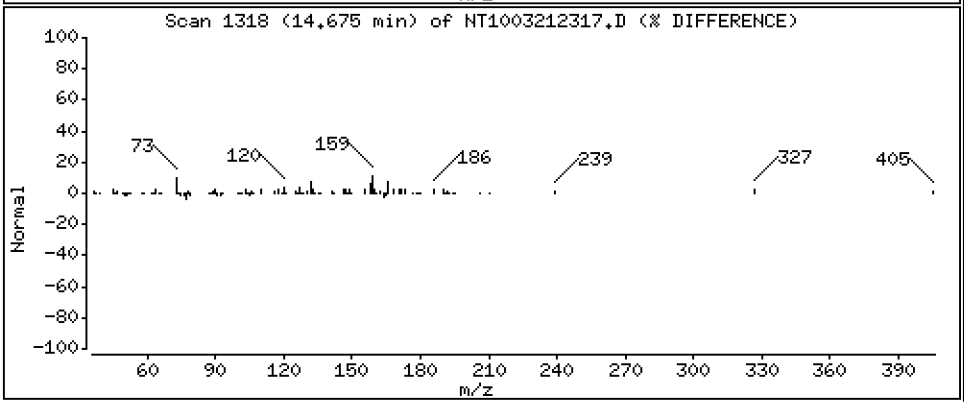












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Date : 22-MAR-2023 03:25

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-06

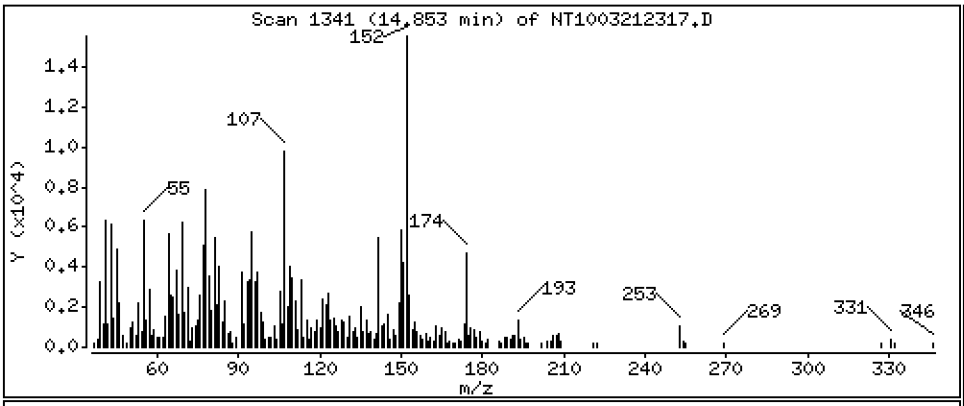
Operator: VTS

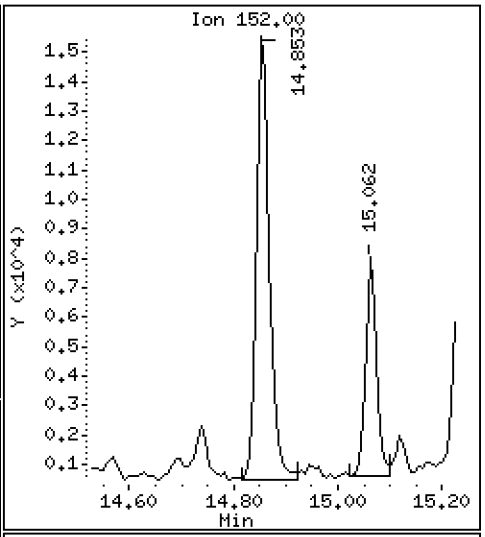
Column phase: ZB-5msi

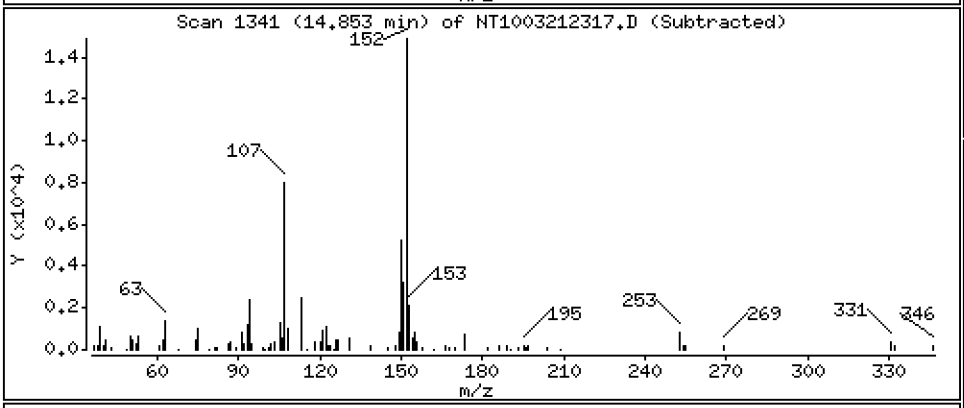
Column diameter: 0.25

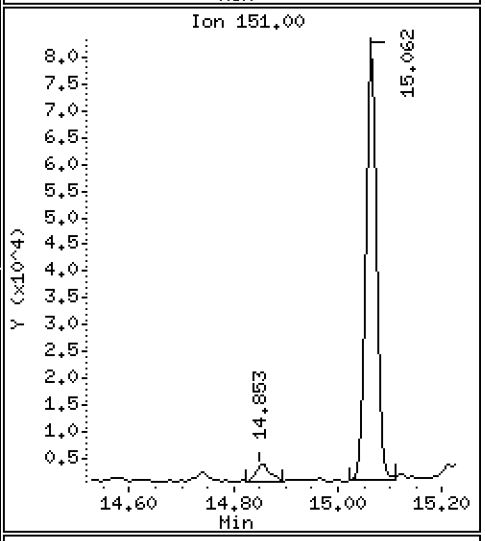
40 Acenaphthylene

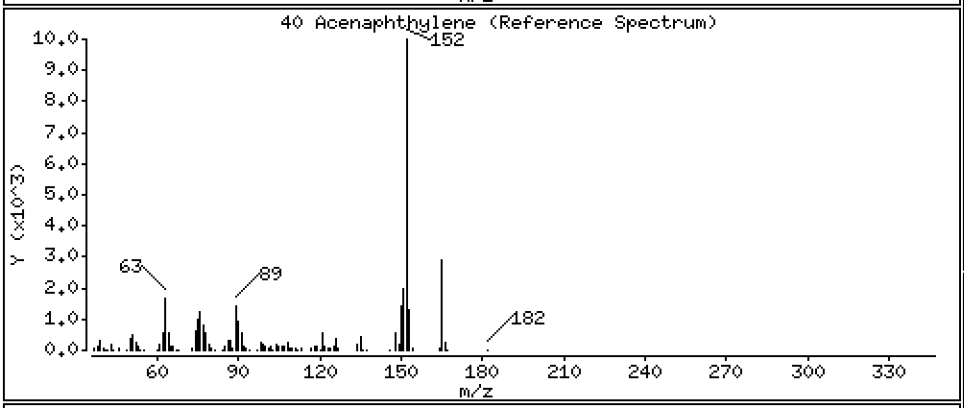
Concentration: 0.1345 ug/mL

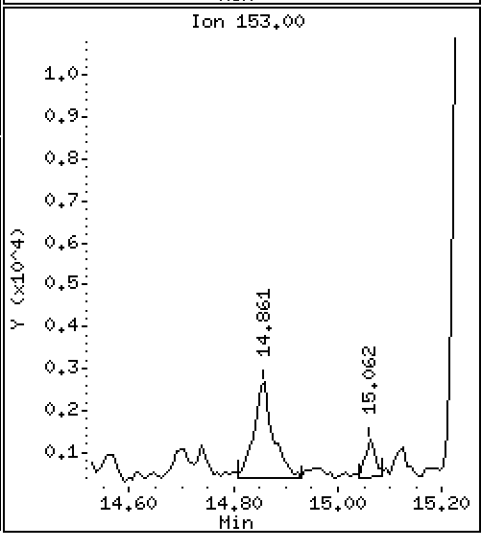


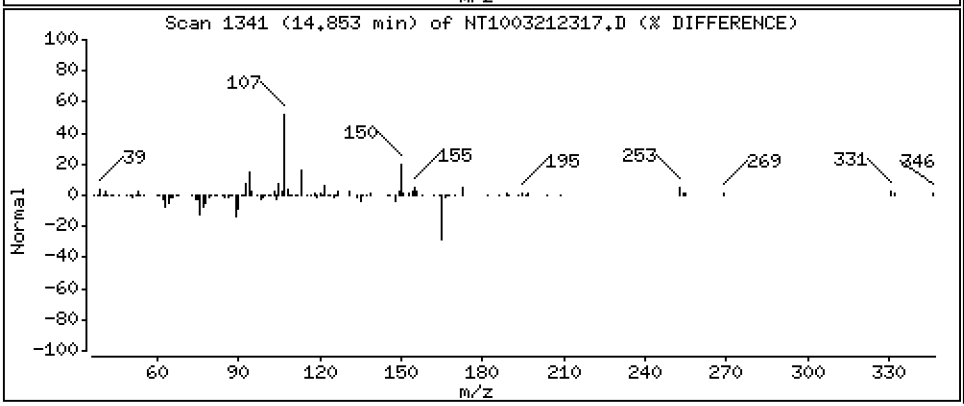












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Date : 22-MAR-2023 03:25

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-06

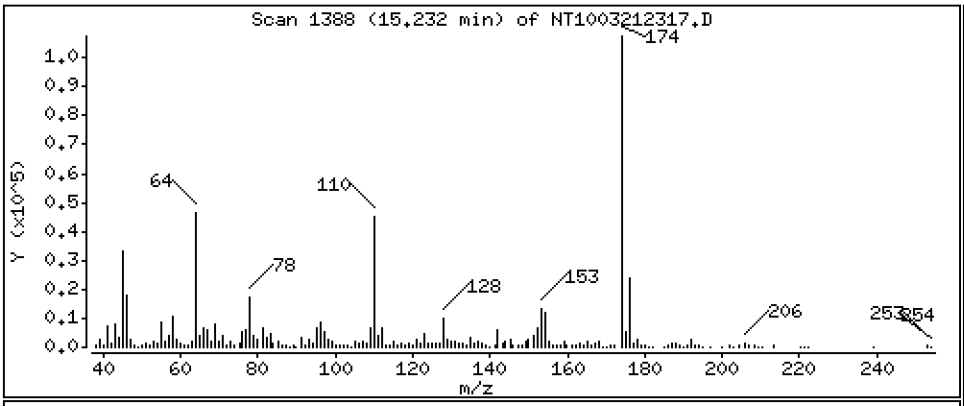
Operator: VTS

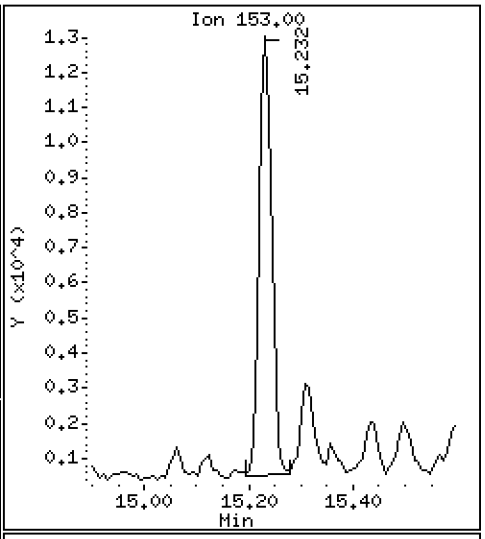
Column phase: ZB-5msi

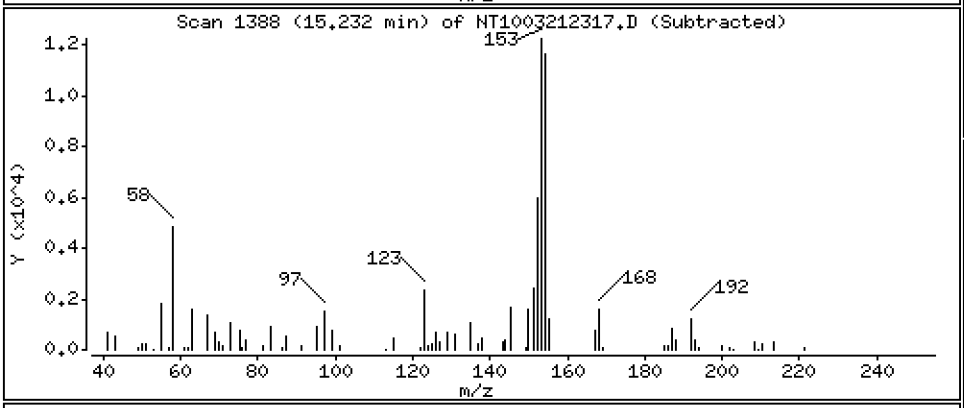
Column diameter: 0.25

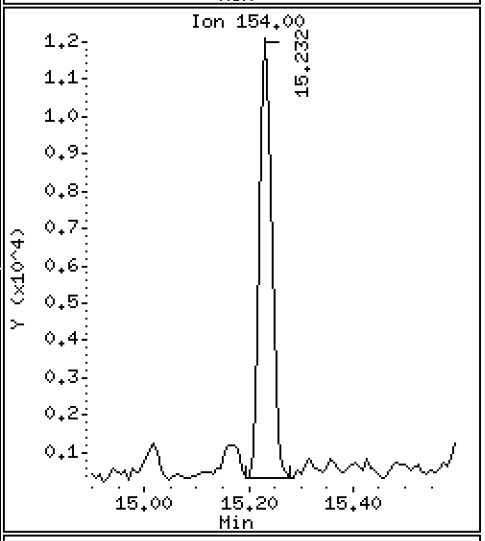
44 Acenaphthene

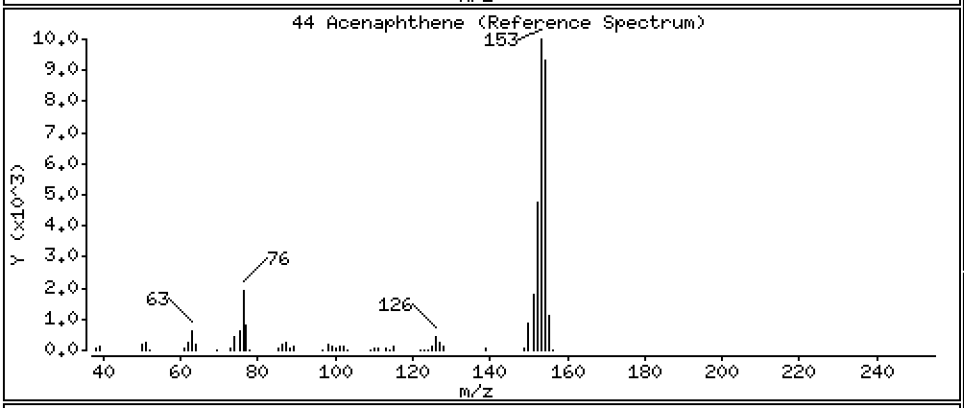
Concentration: 0.1725 ug/mL

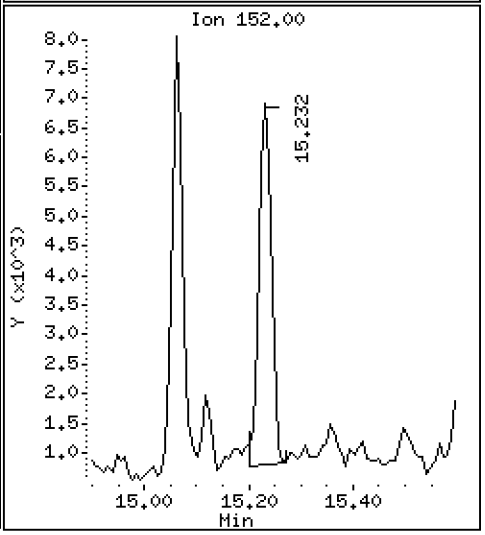


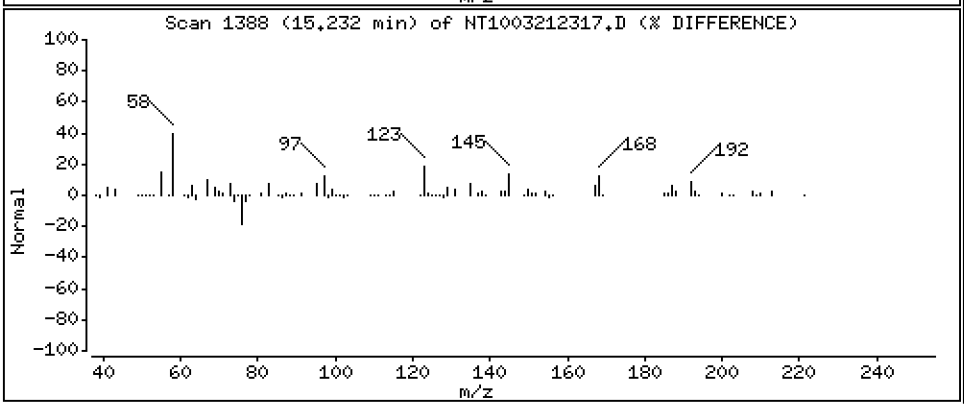












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Date : 22-MAR-2023 03:25

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-06

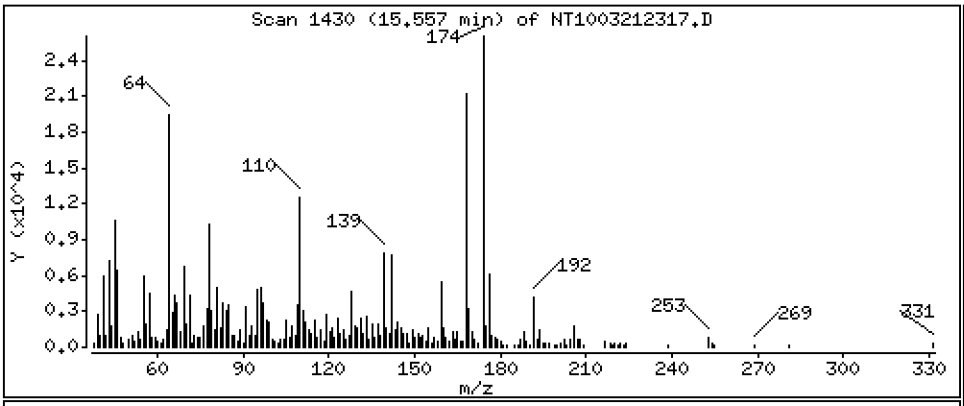
Operator: VTS

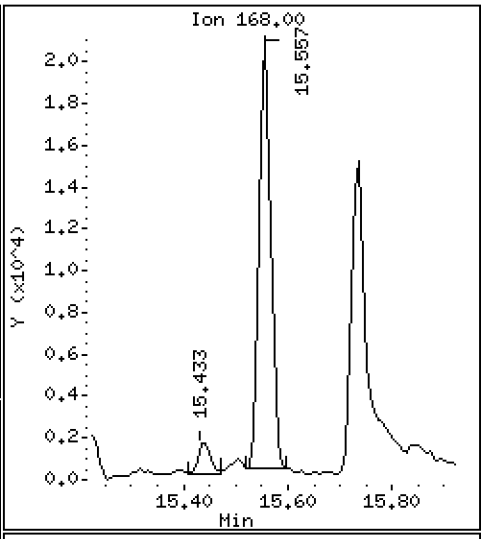
Column phase: ZB-5msi

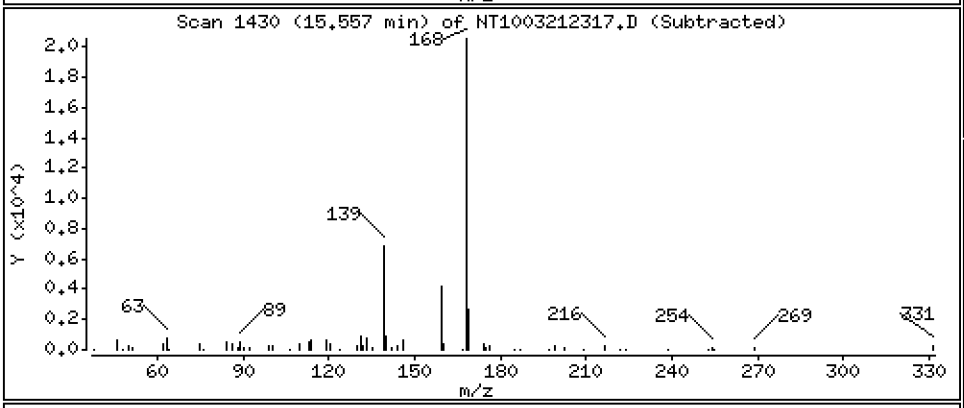
Column diameter: 0.25

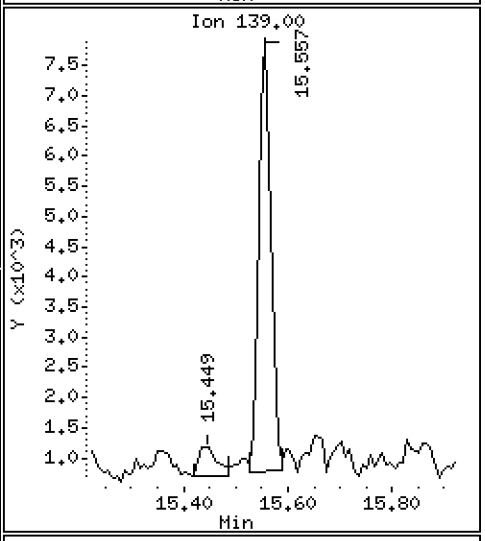
46 Dibenzofuran

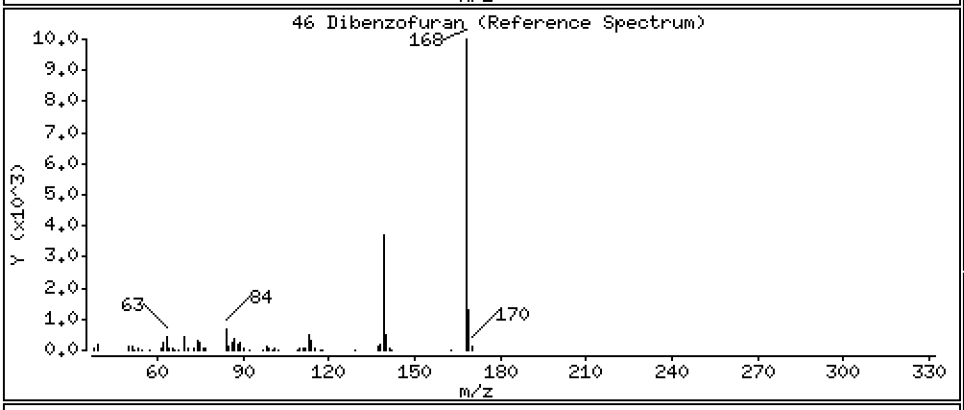
Concentration: 0.1800 ug/mL

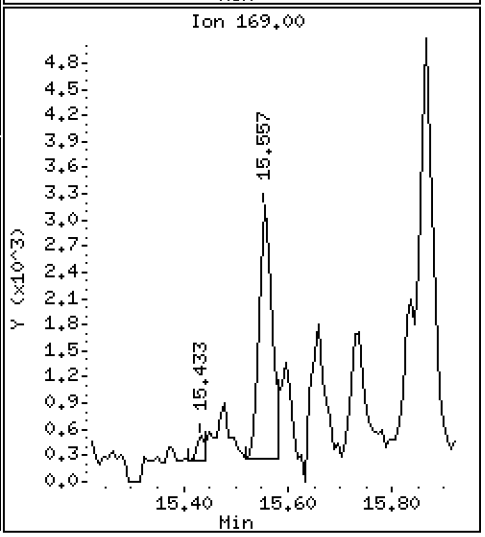


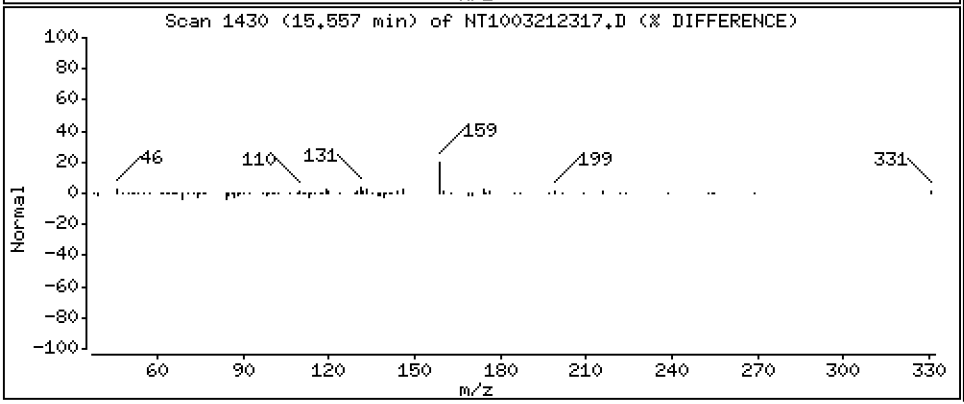












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212317.D

Date : 22-MAR-2023 03:25

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-06

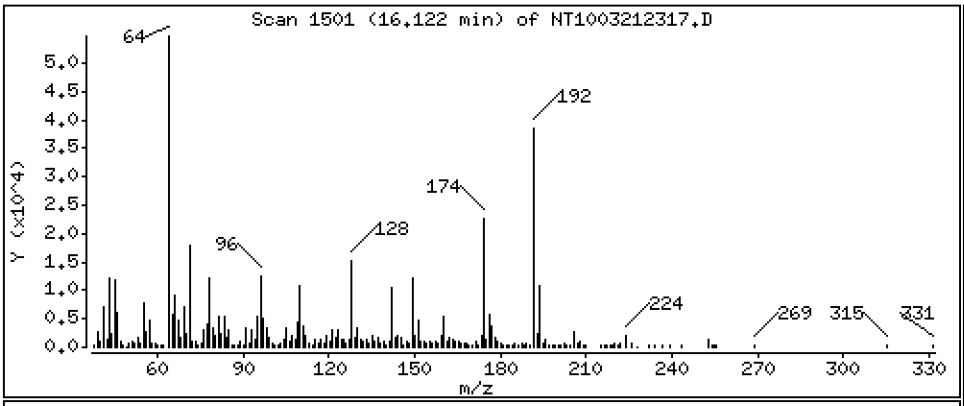
Operator: VTS

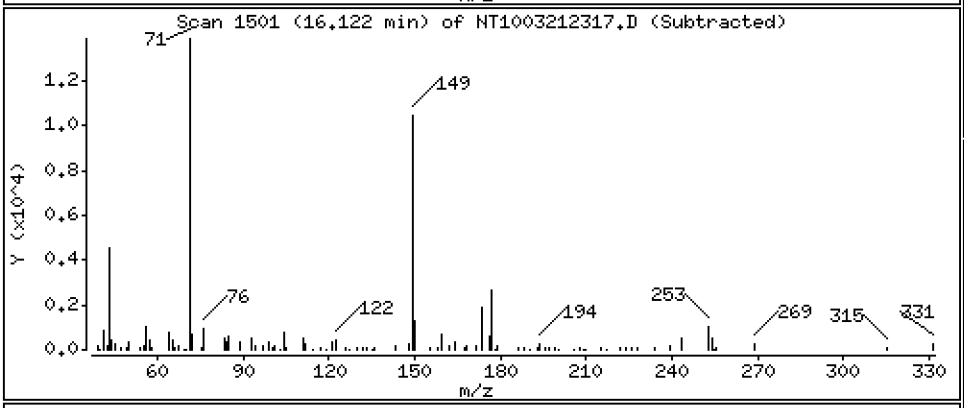
Column phase: ZB-5msi

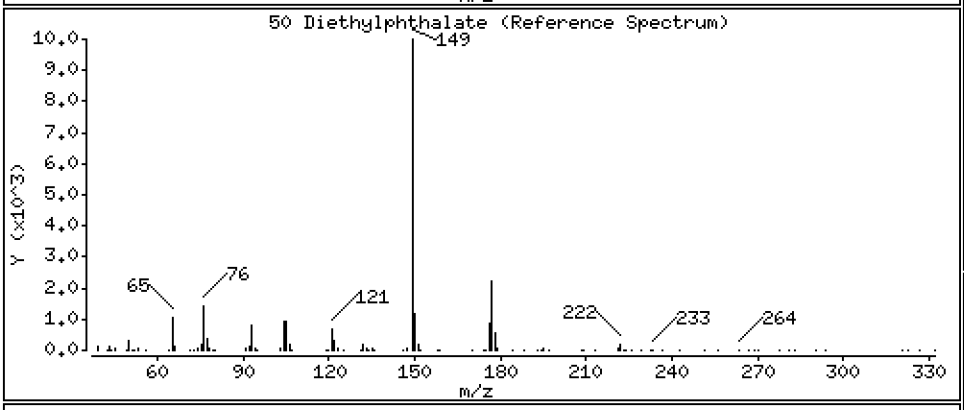
Column diameter: 0.25

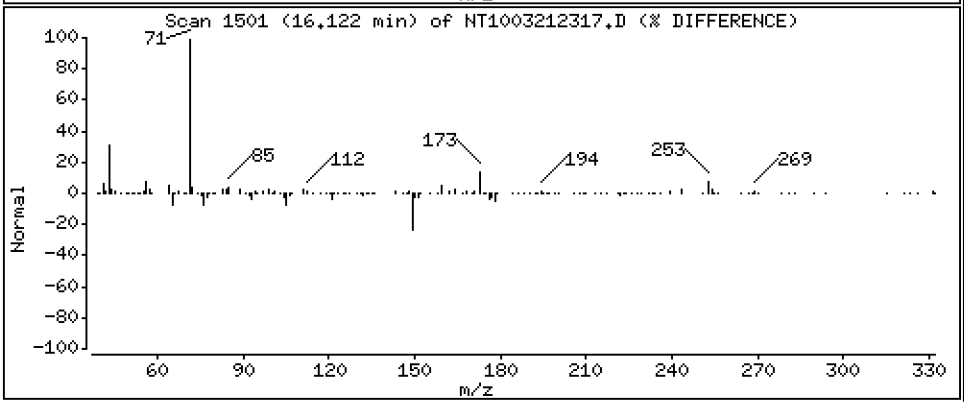
50 Diethylphthalate

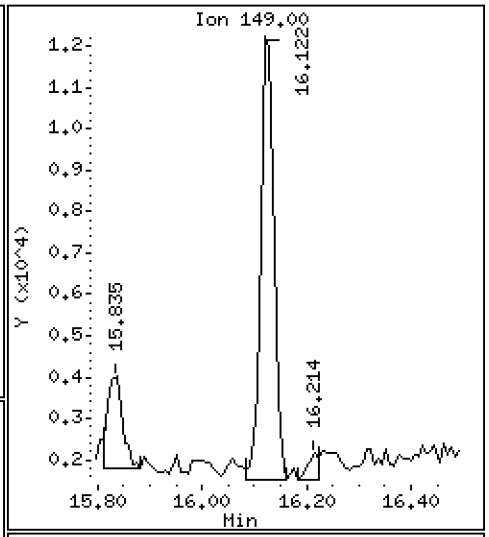
Concentration: 0.1477 ug/mL

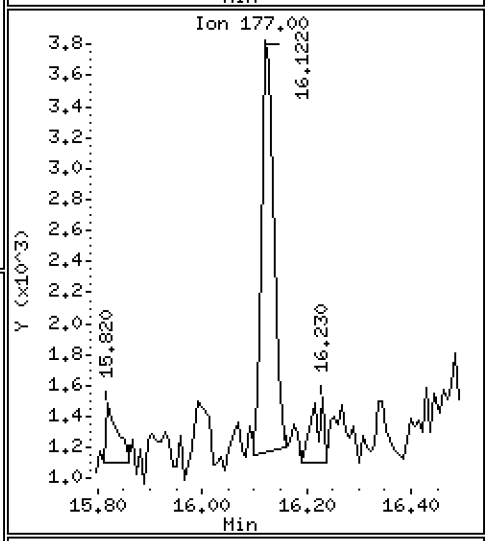


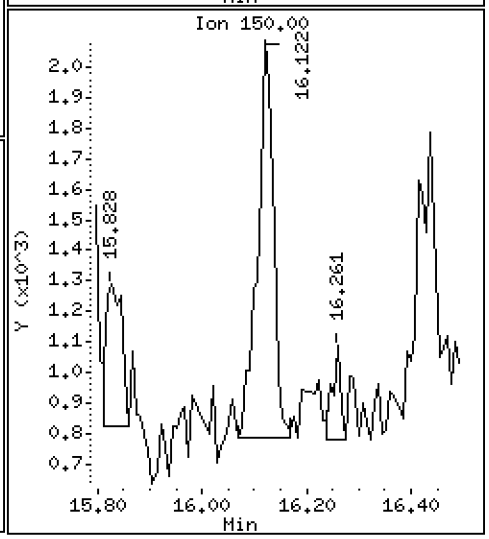












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Date : 22-MAR-2023 03:25

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-06

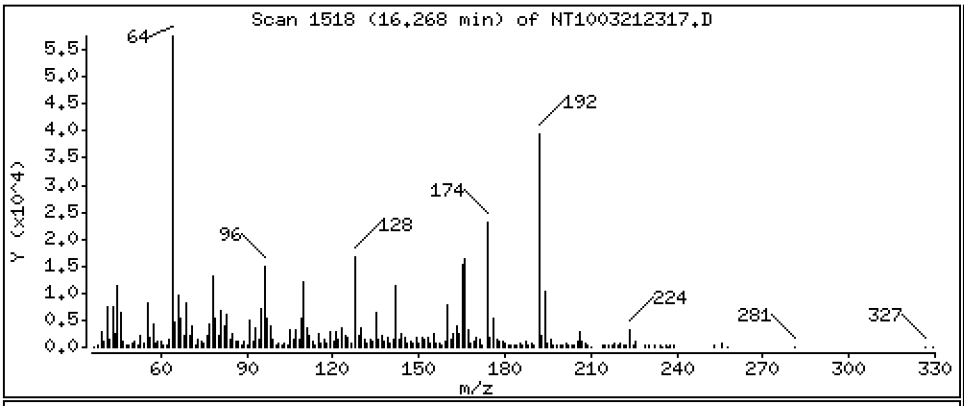
Operator: VTS

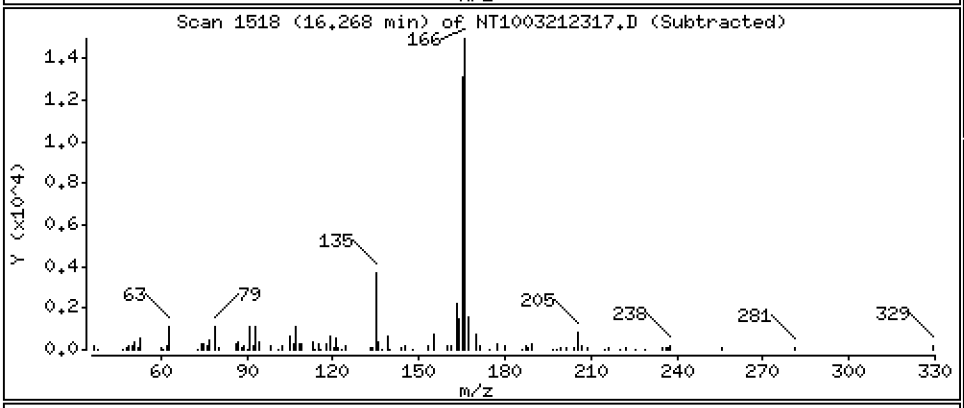
Column phase: ZB-5msi

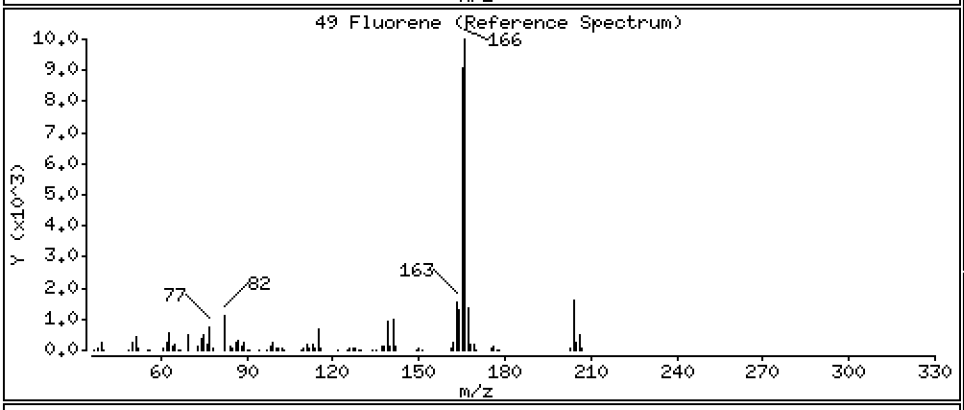
Column diameter: 0.25

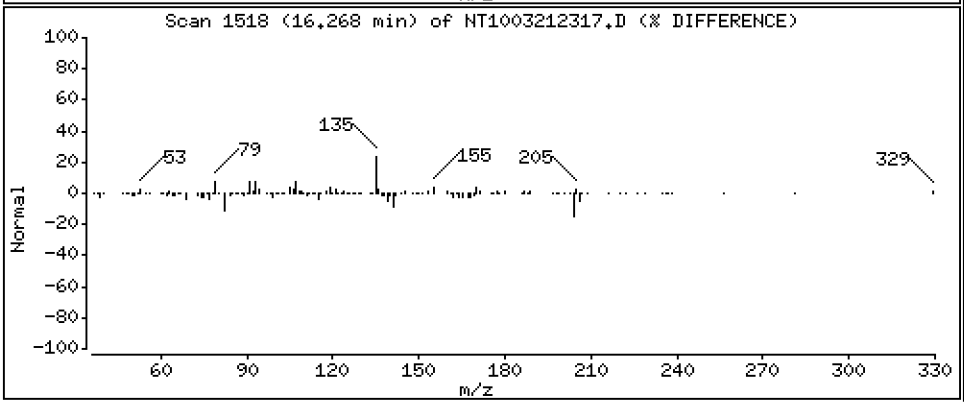
49 Fluorene

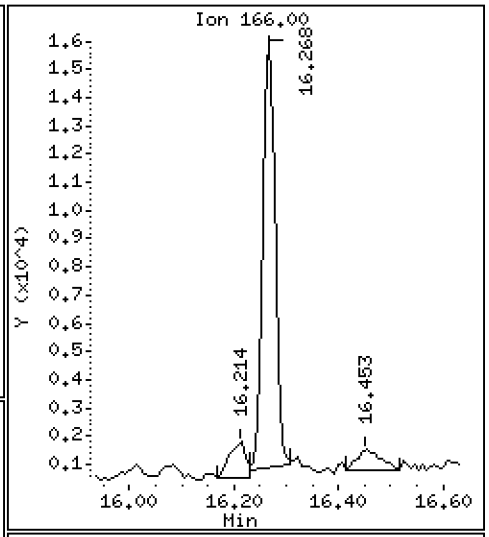
Concentration: 0.1720 ug/mL

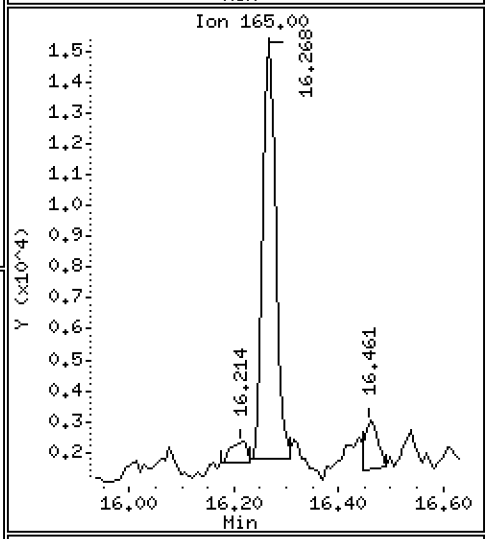


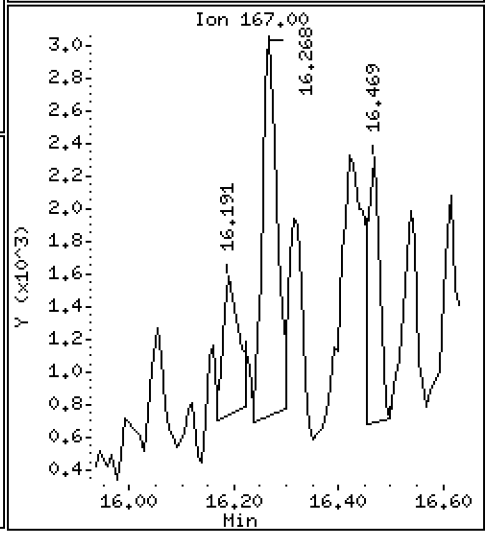












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Date : 22-MAR-2023 03:25

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-06

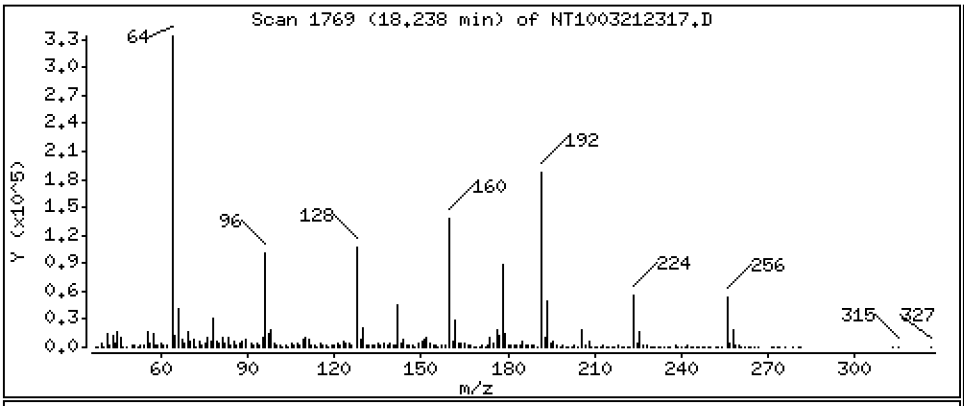
Operator: VTS

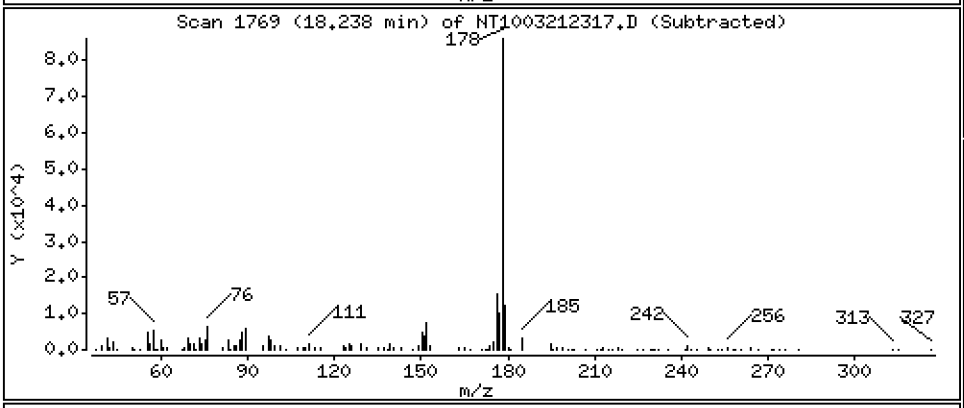
Column phase: ZB-5msi

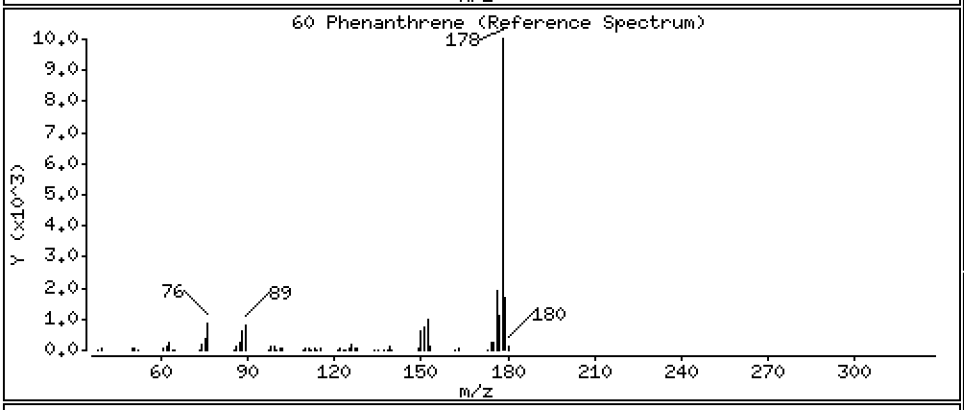
Column diameter: 0.25

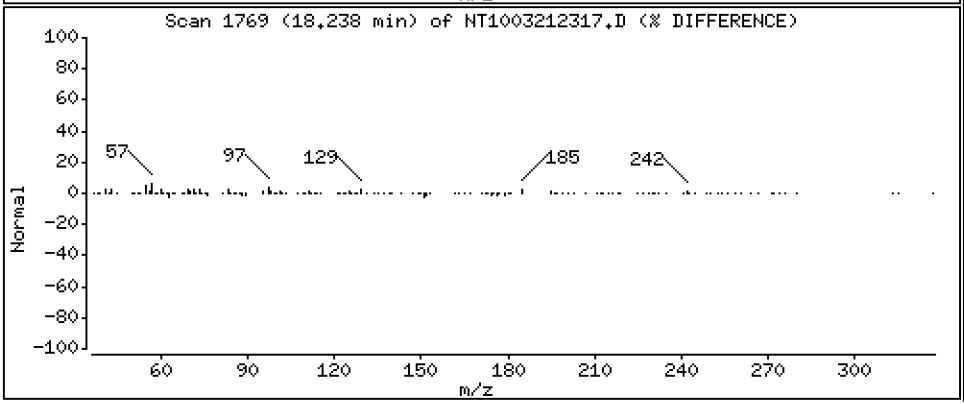
60 Phenanthrene

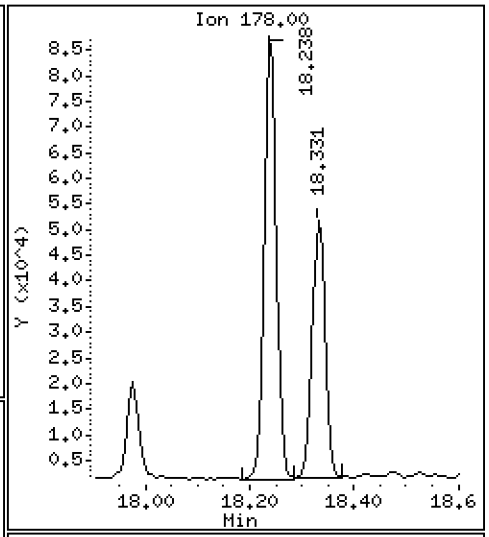
Concentration: 0.7146 ug/mL

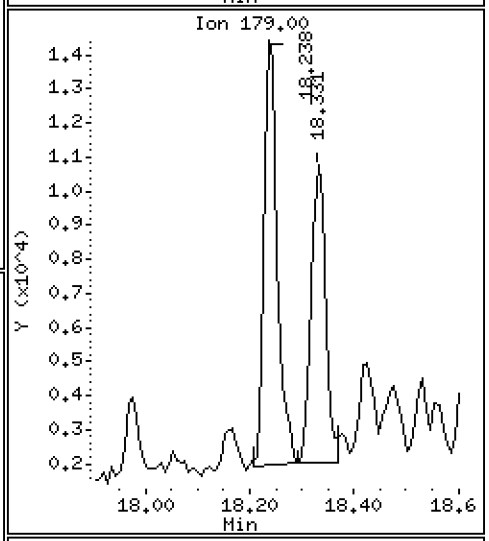


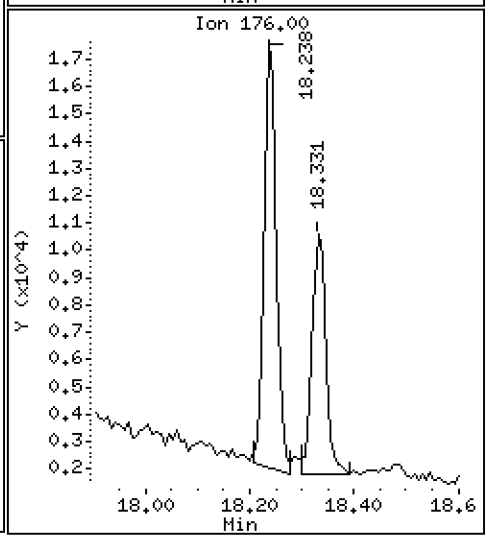












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Date : 22-MAR-2023 03:25

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-06

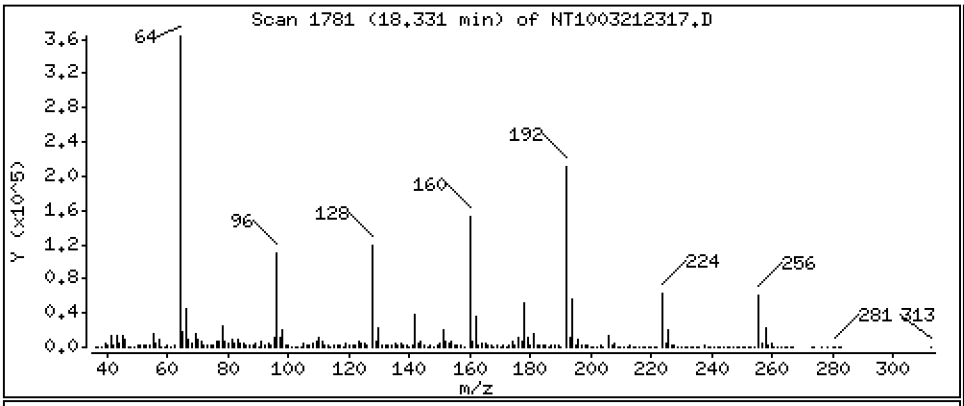
Operator: VTS

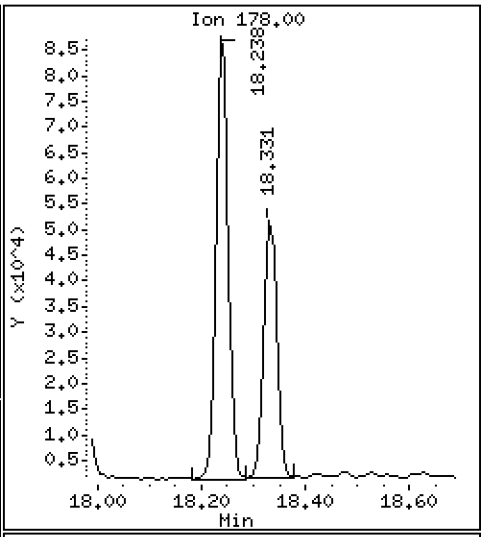
Column phase: ZB-5msi

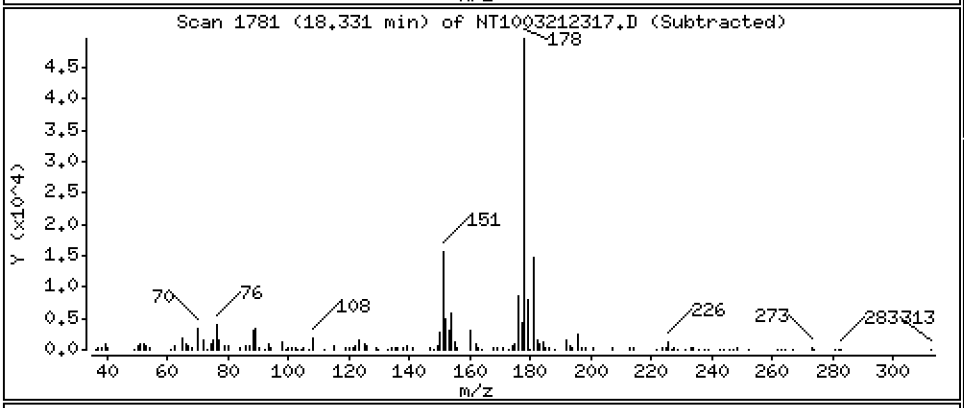
Column diameter: 0.25

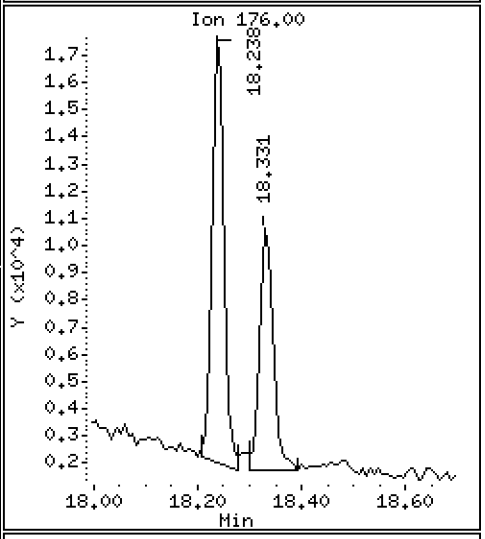
61 Anthracene

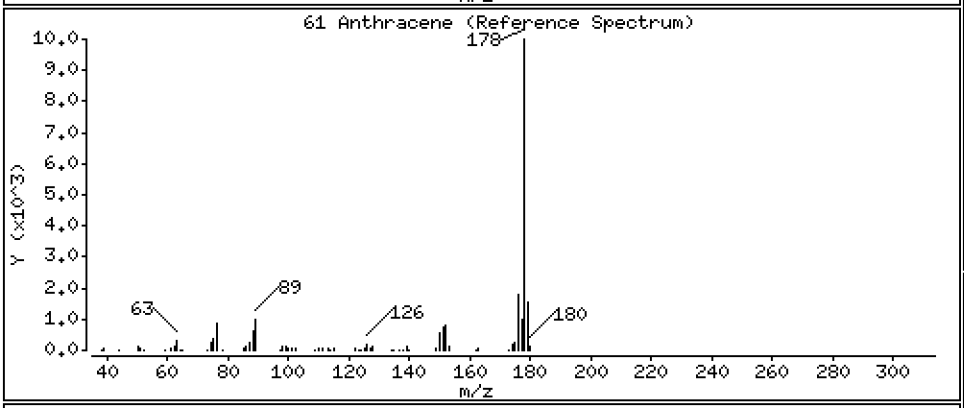
Concentration: 0.4385 ug/mL

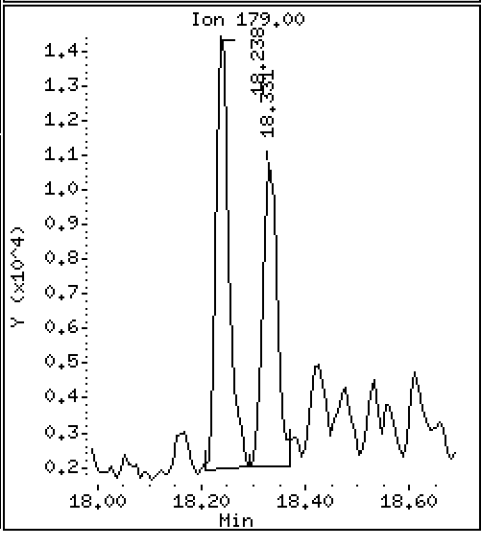


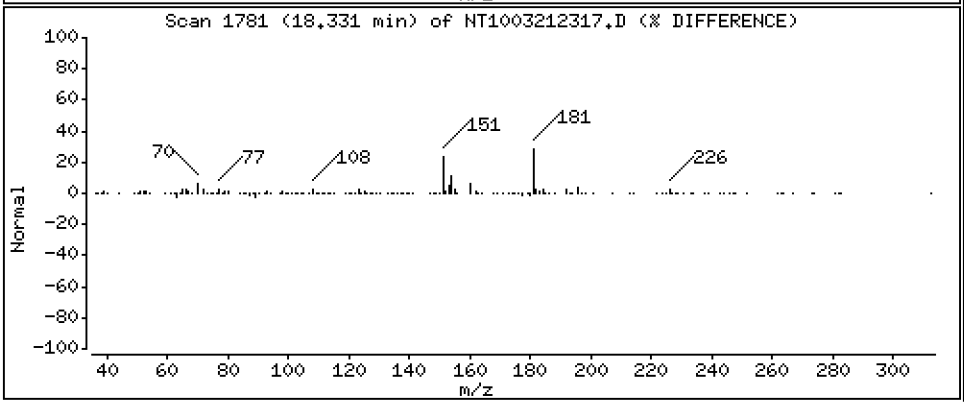












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Date : 22-MAR-2023 03:25

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-06

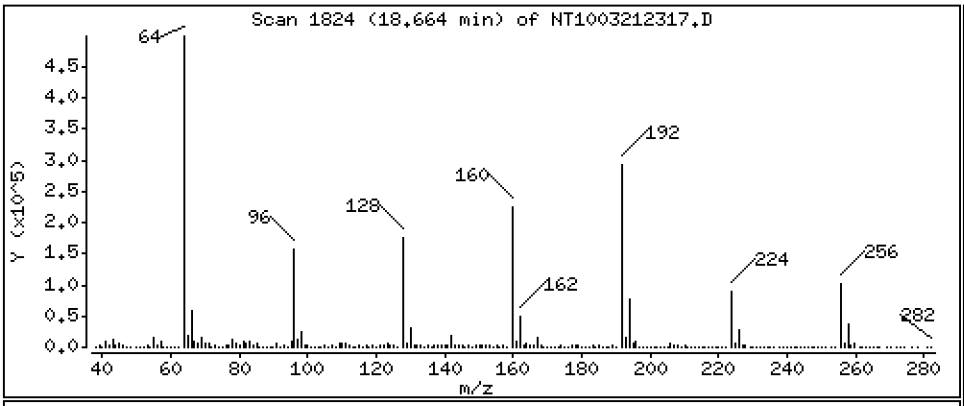
Operator: VTS

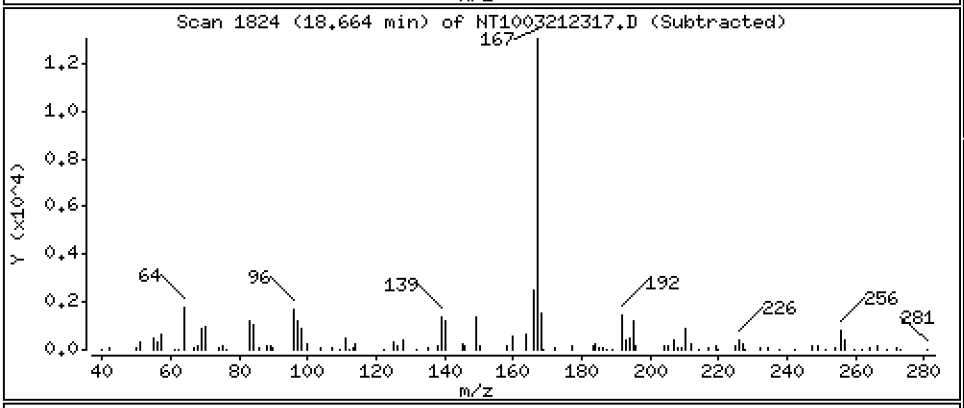
Column phase: ZB-5msi

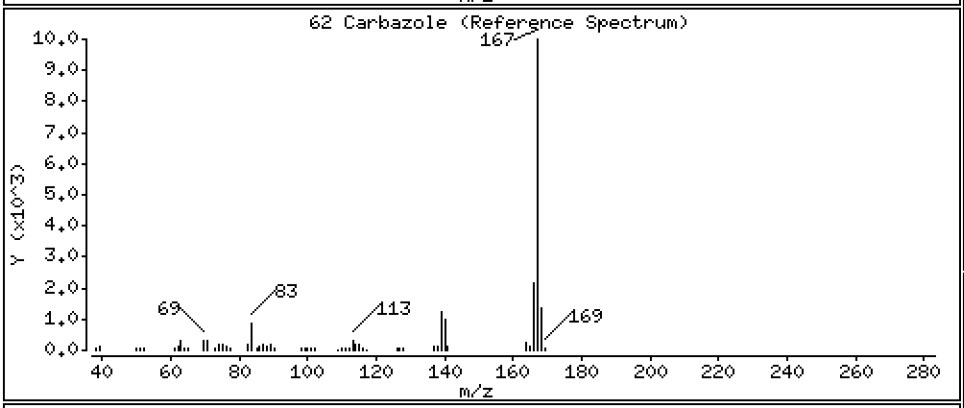
Column diameter: 0.25

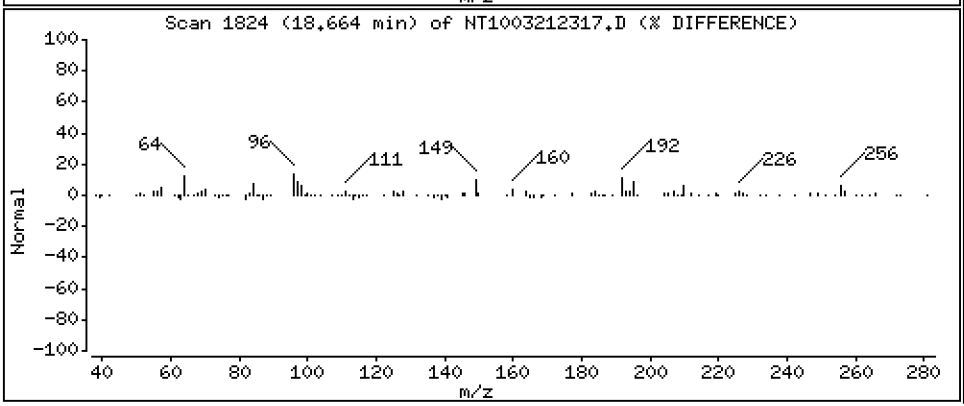
62 Carbazole

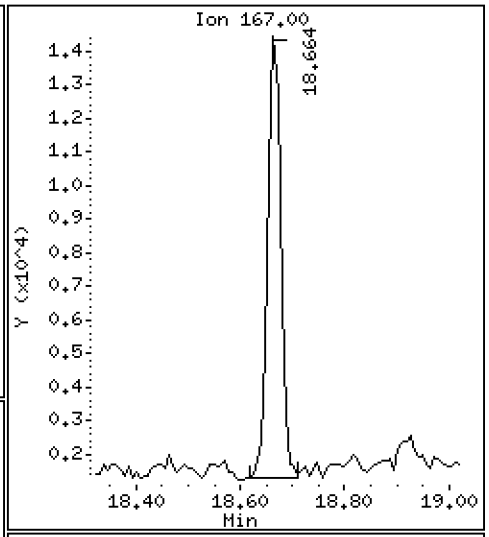
Concentration: 0.1299 ug/mL

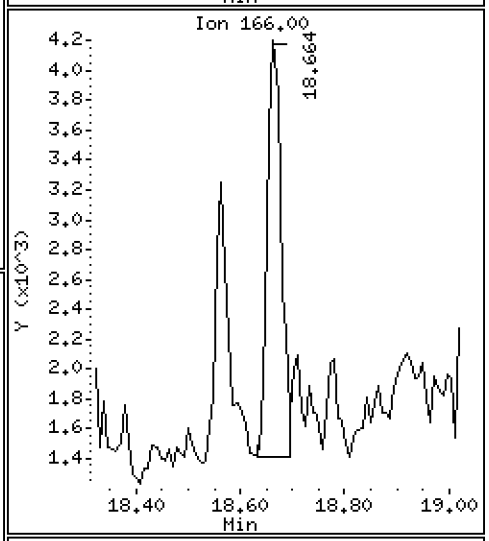


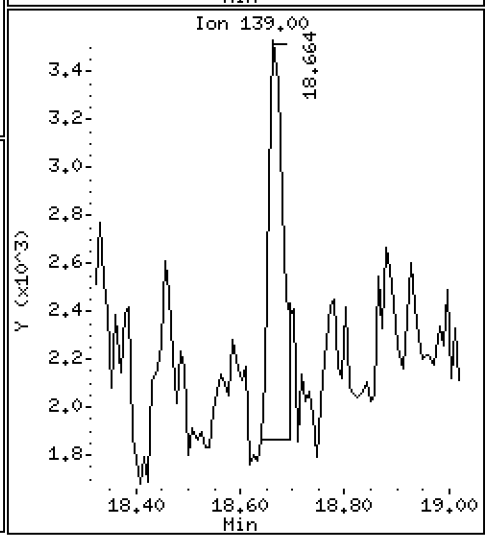












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Date : 22-MAR-2023 03:25

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-06

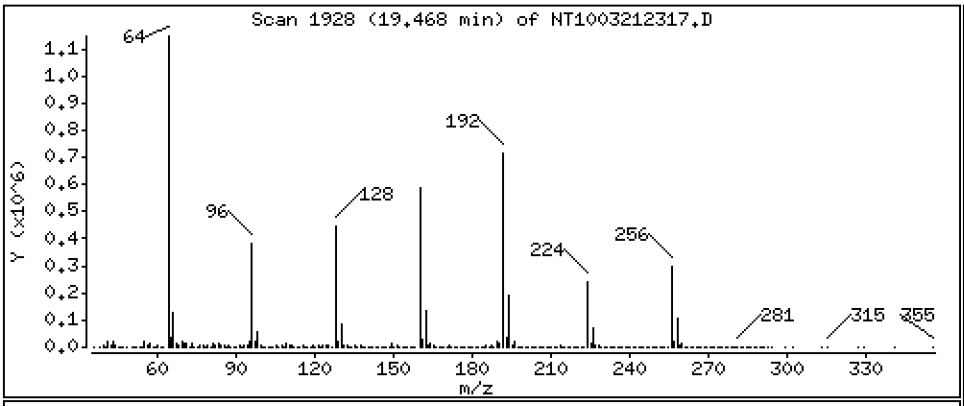
Operator: VTS

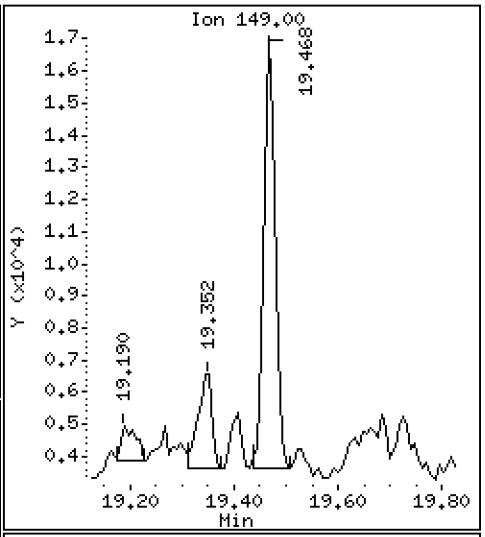
Column phase: ZB-5msi

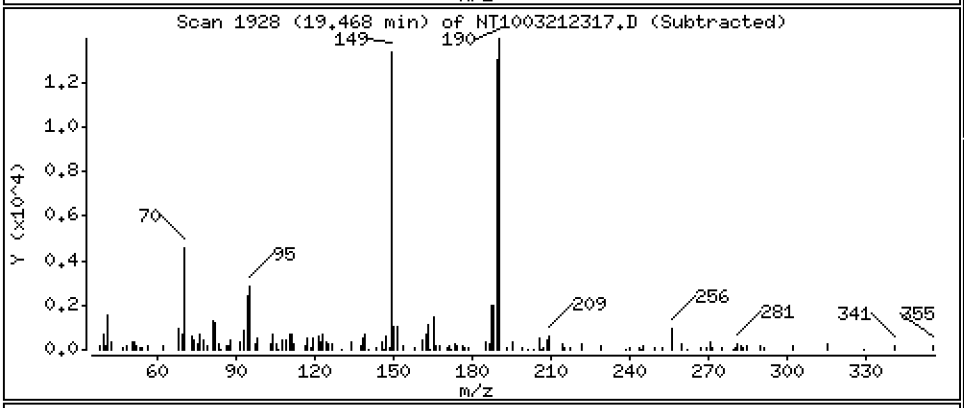
Column diameter: 0.25

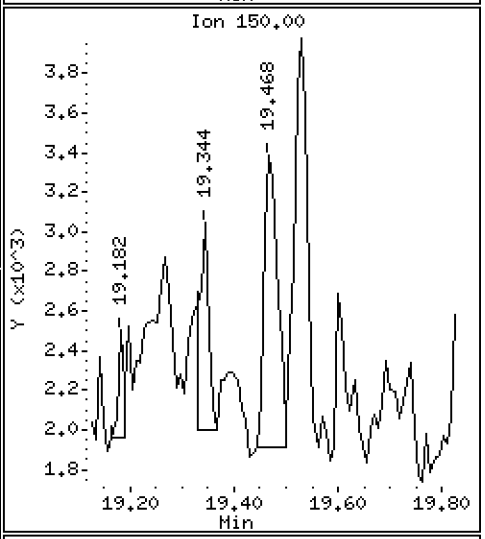
63 Di-n-butylphthalate

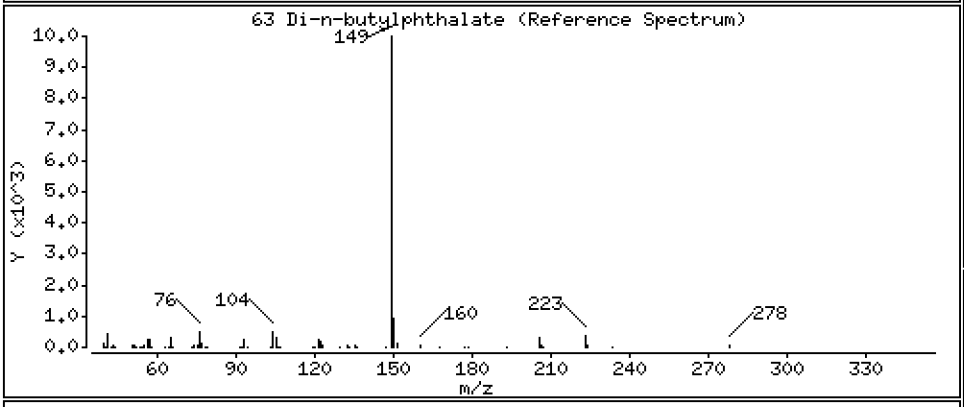
Concentration: 0.08749 ug/mL

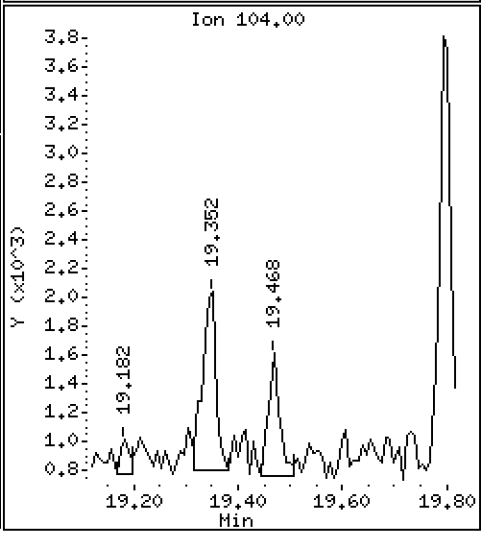


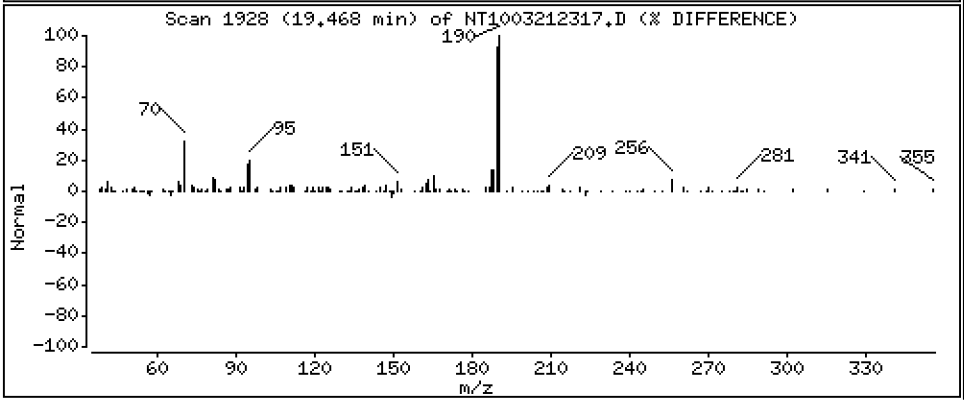












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Date : 22-MAR-2023 03:25

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-06

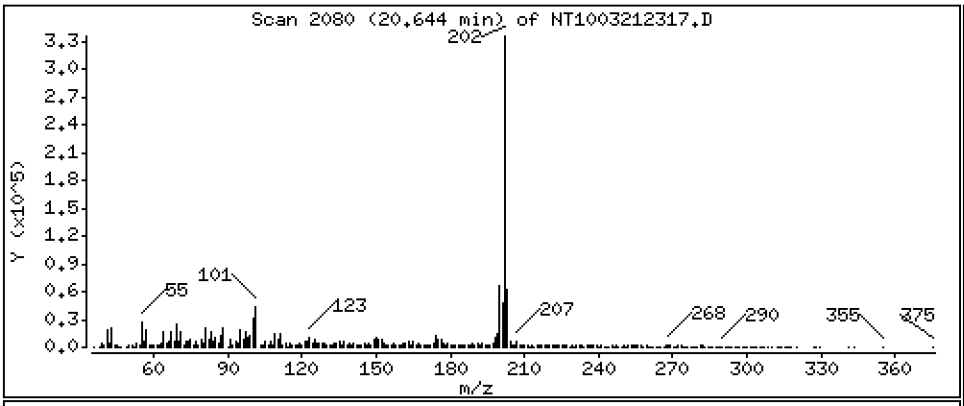
Operator: VTS

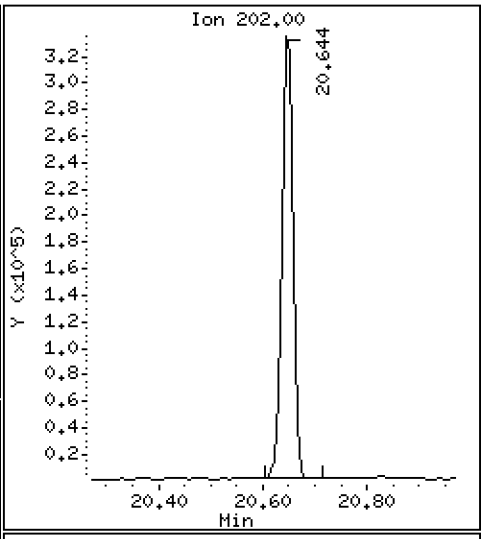
Column phase: ZB-5msi

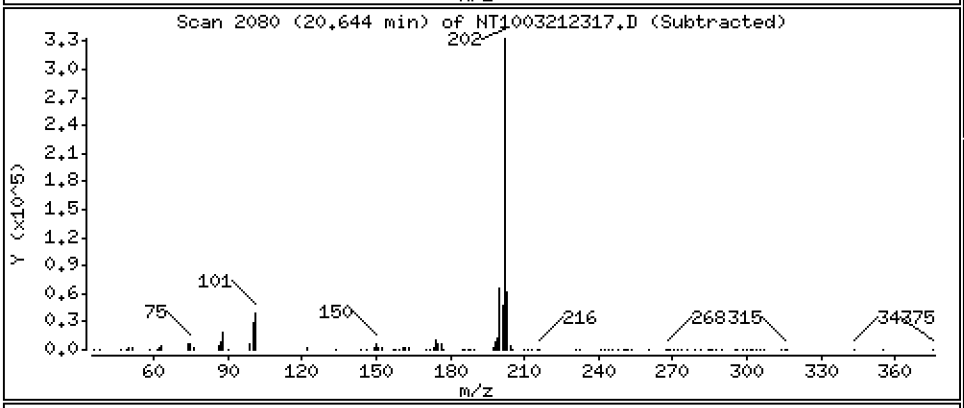
Column diameter: 0.25

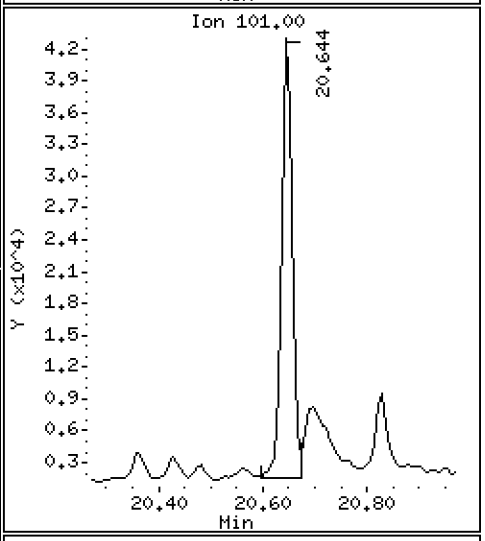
64 Fluoranthene

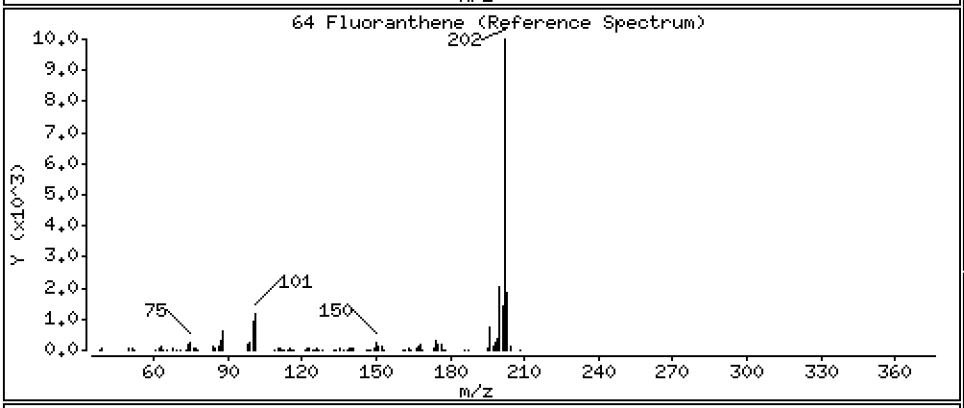
Concentration: 2.046 ug/mL

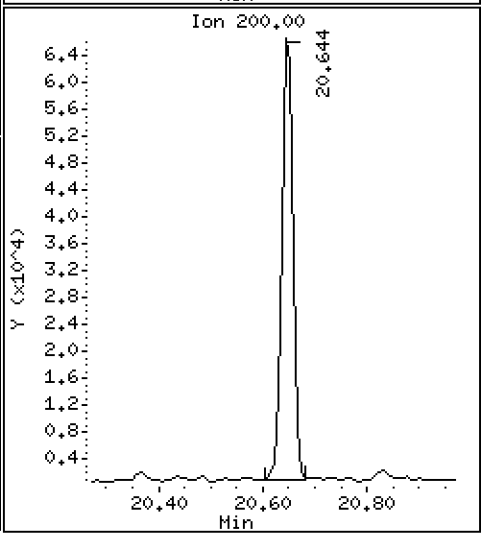


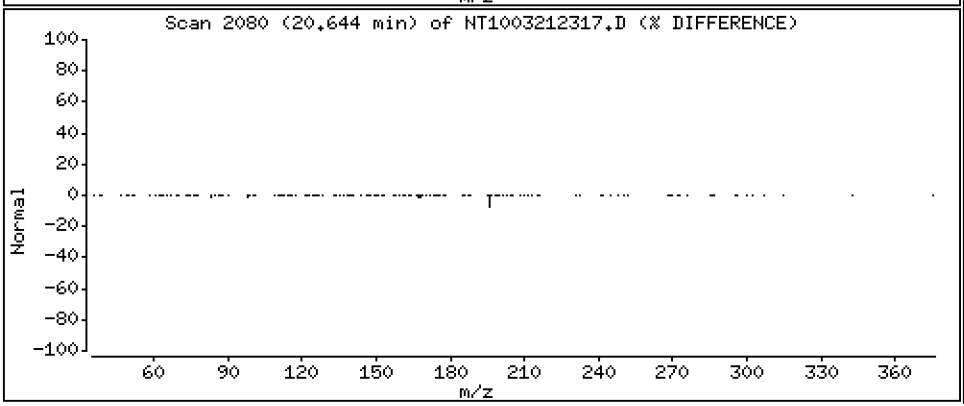












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212317.D

Date : 22-MAR-2023 03:25

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-06

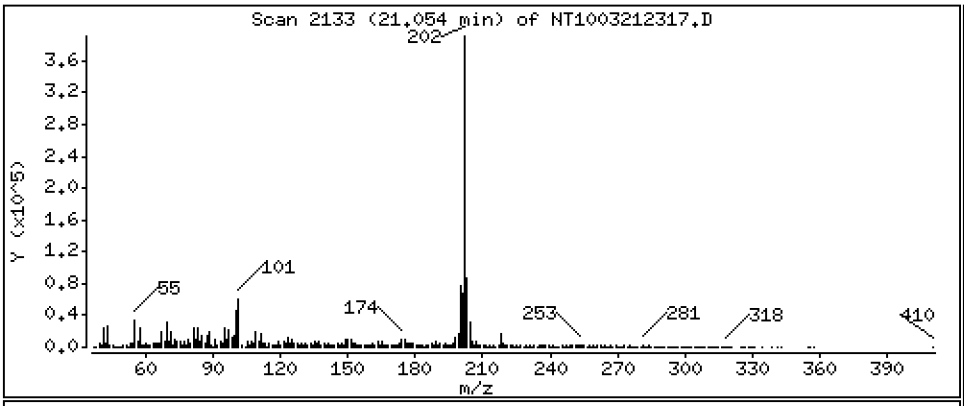
Operator: VTS

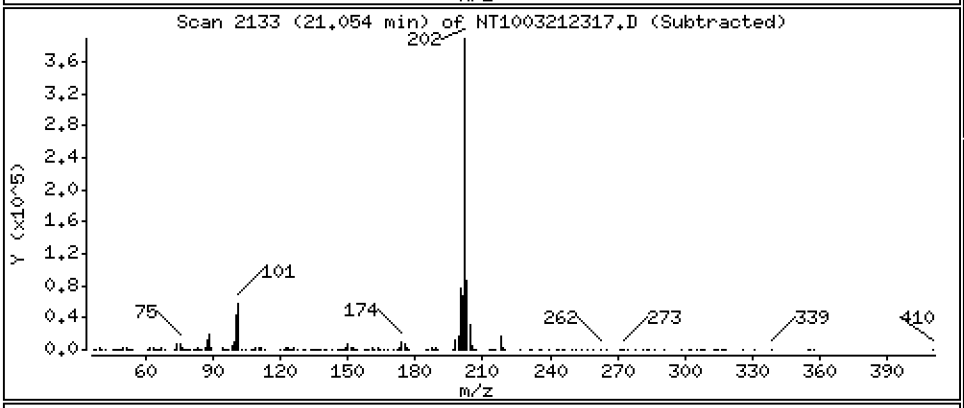
Column phase: ZB-5msi

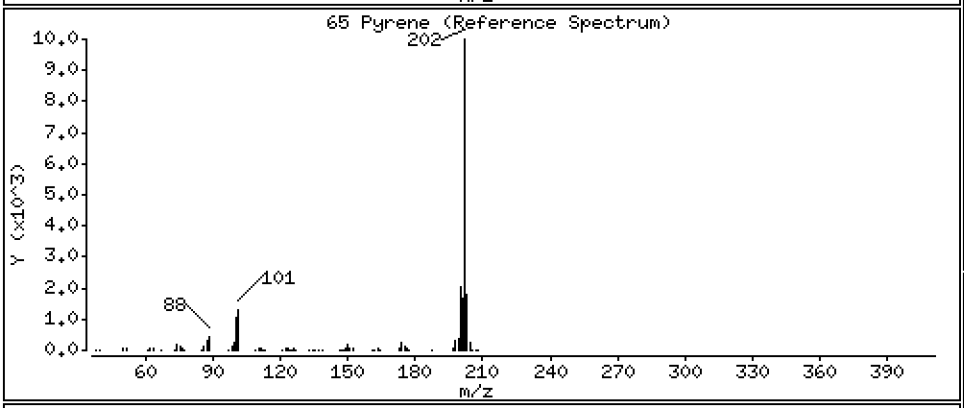
Column diameter: 0.25

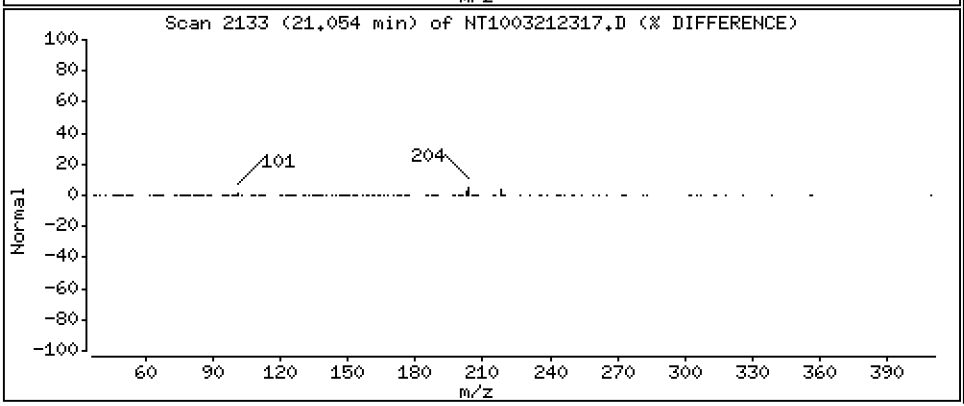
65 Pyrene

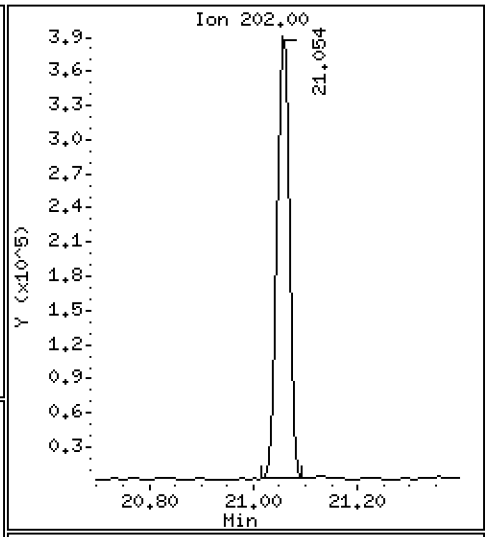
Concentration: 2.333 ug/mL

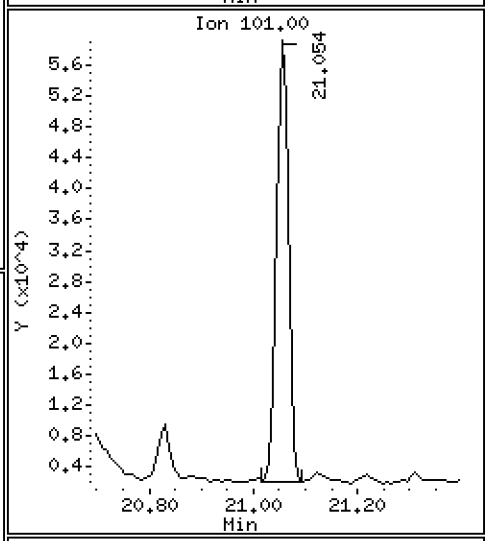


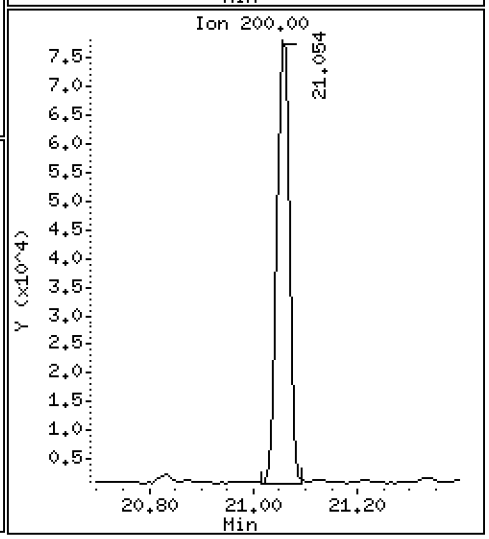












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Date : 22-MAR-2023 03:25

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-06

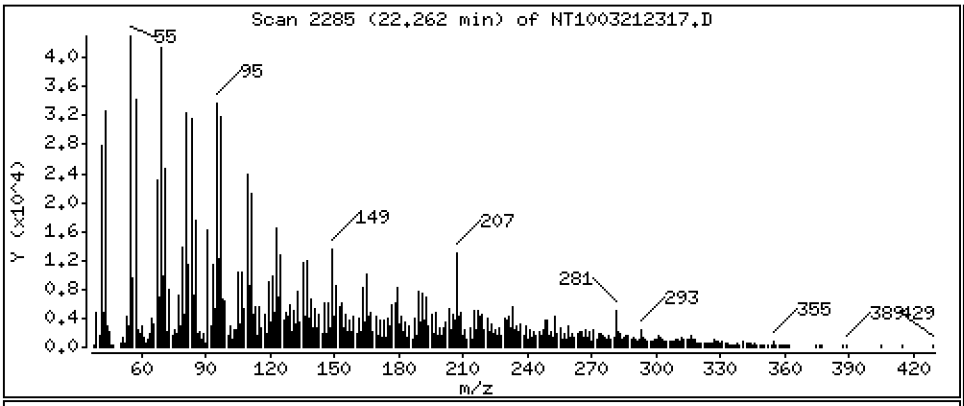
Operator: VTS

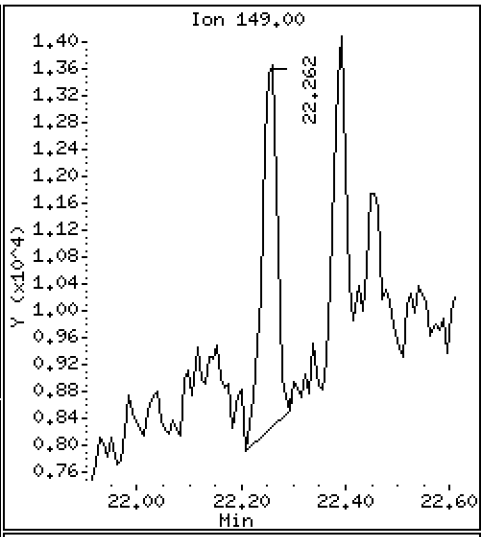
Column phase: ZB-5msi

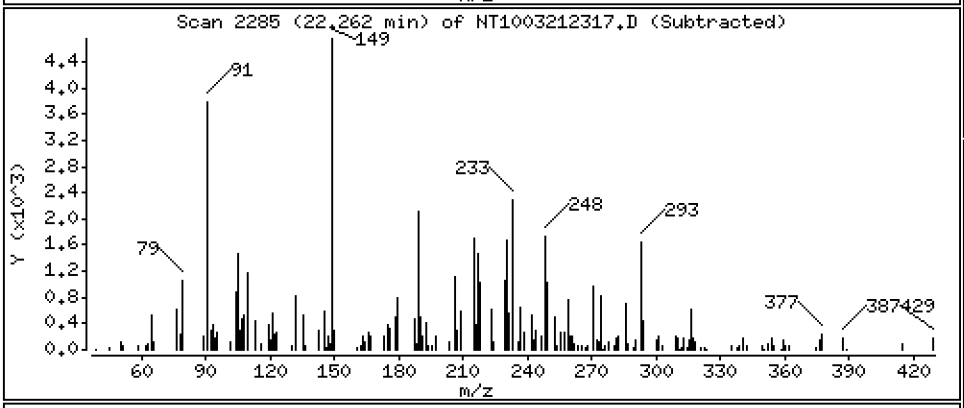
Column diameter: 0.25

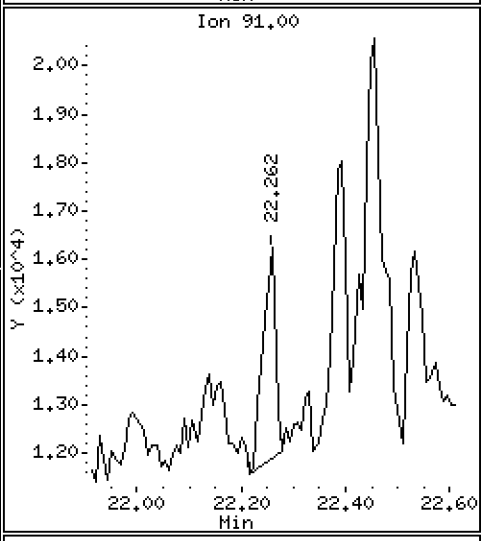
67 Butylbenzylphthalate

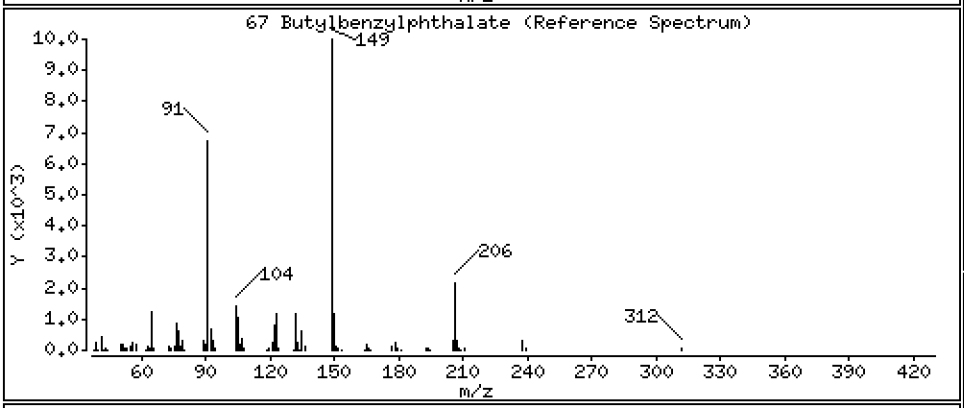
Concentration: 0.1159 ug/mL

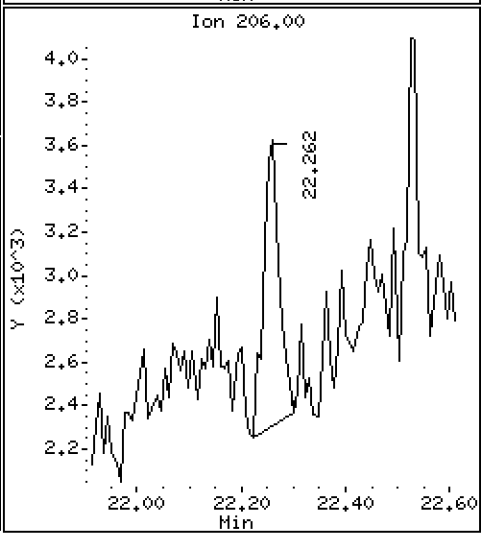


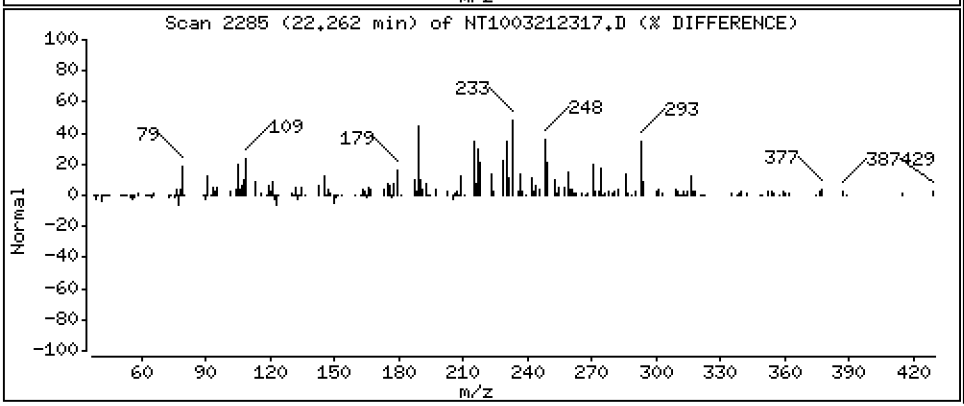












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Date : 22-MAR-2023 03:25

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-06

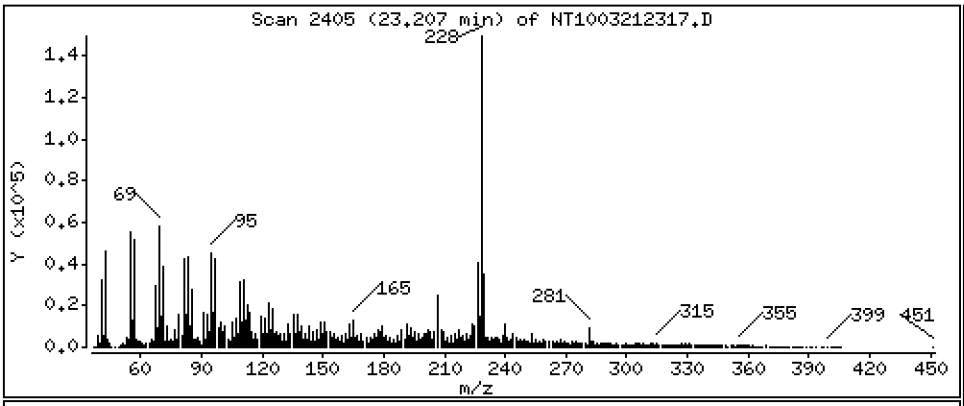
Operator: VTS

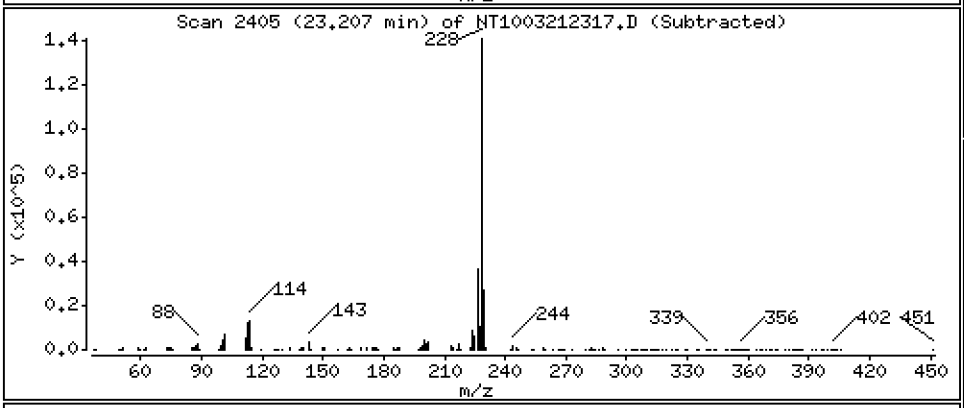
Column phase: ZB-5msi

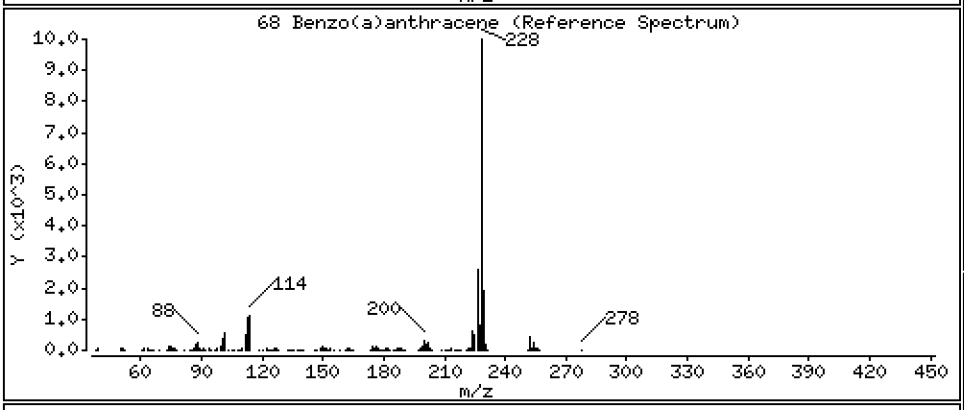
Column diameter: 0.25

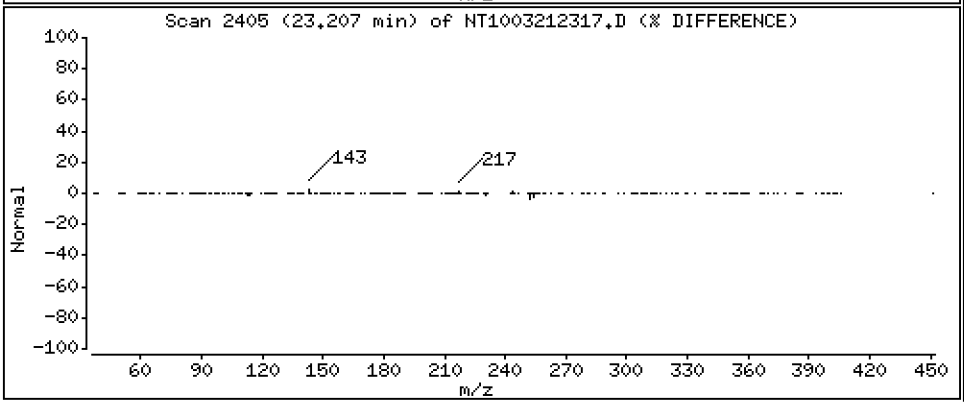
68 Benzo(a)anthracene

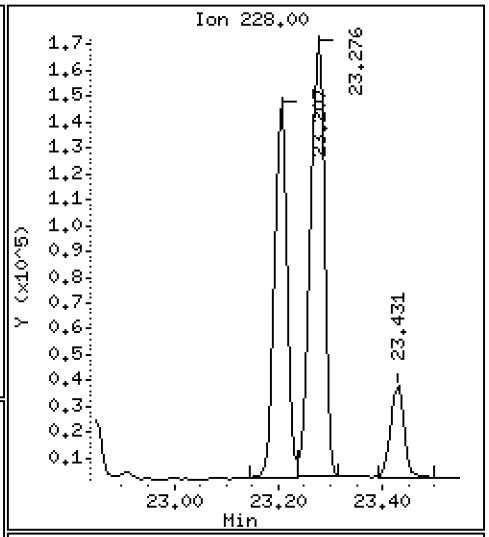
Concentration: 1.061 ug/mL

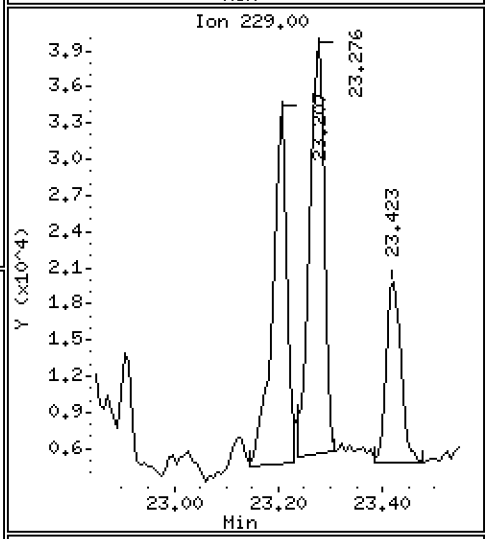


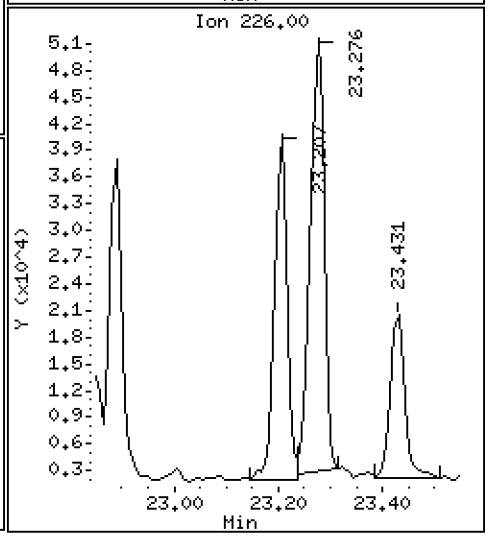












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Date : 22-MAR-2023 03:25

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-06

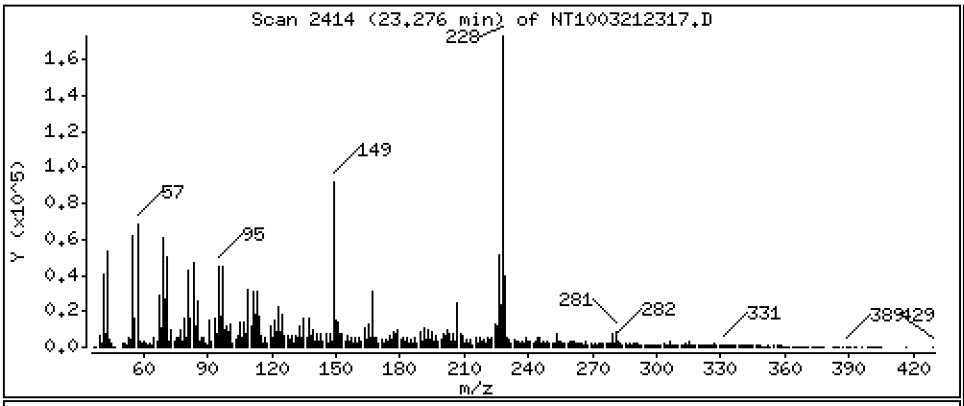
Operator: VTS

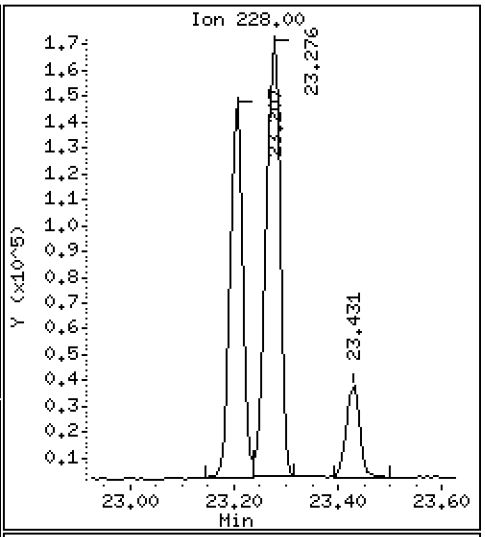
Column phase: ZB-5msi

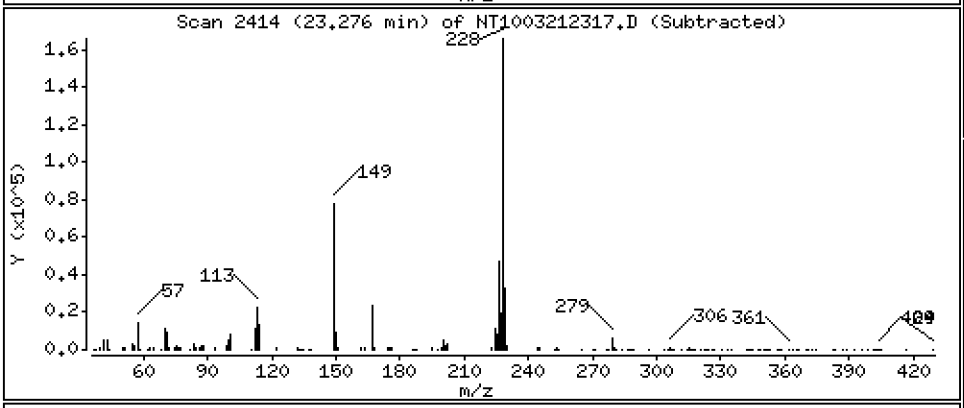
Column diameter: 0.25

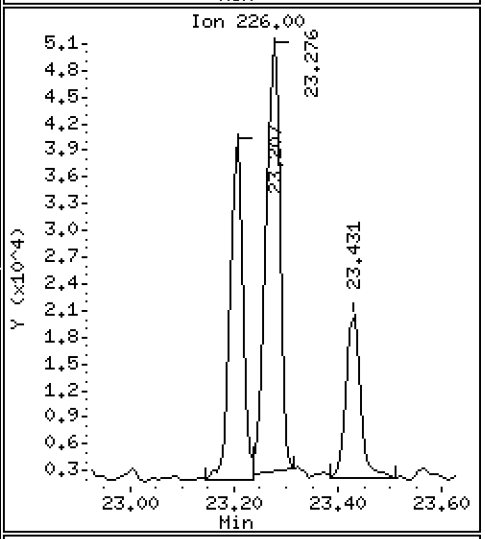
71 Chrysene

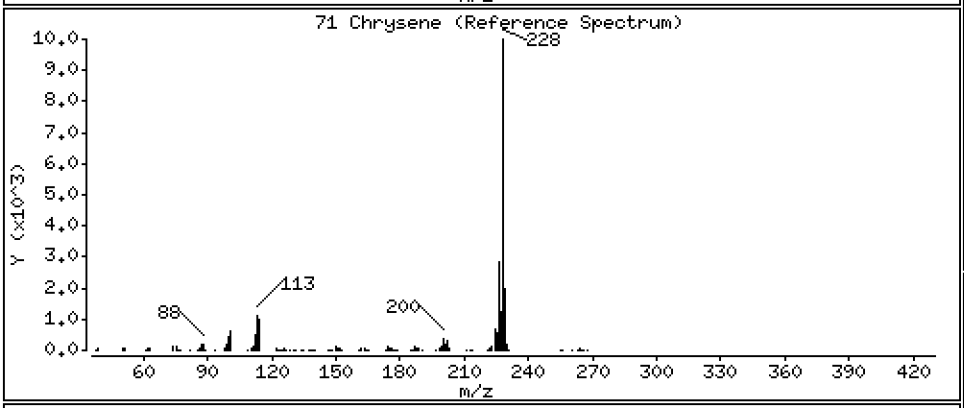
Concentration: 1.387 ug/mL

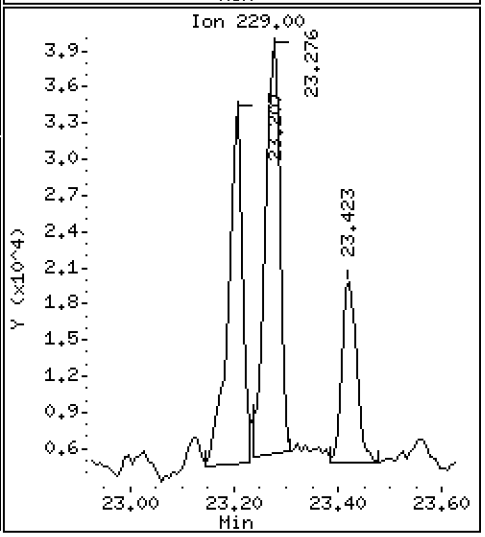


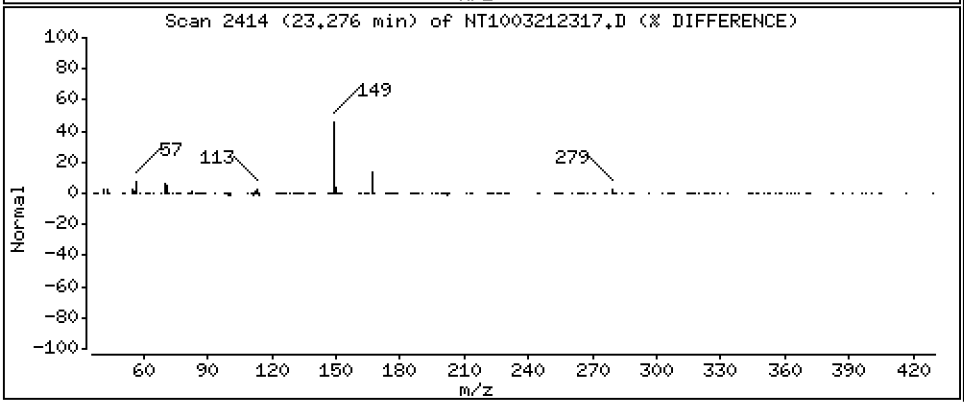












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Date : 22-MAR-2023 03:25

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-06

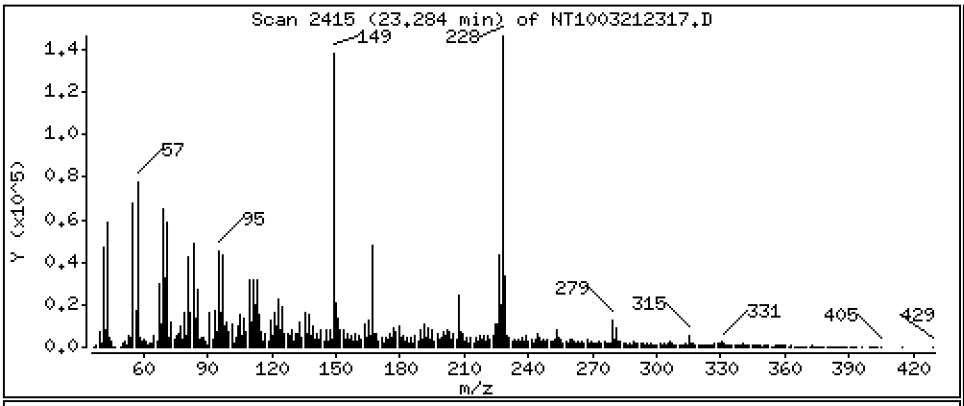
Operator: VTS

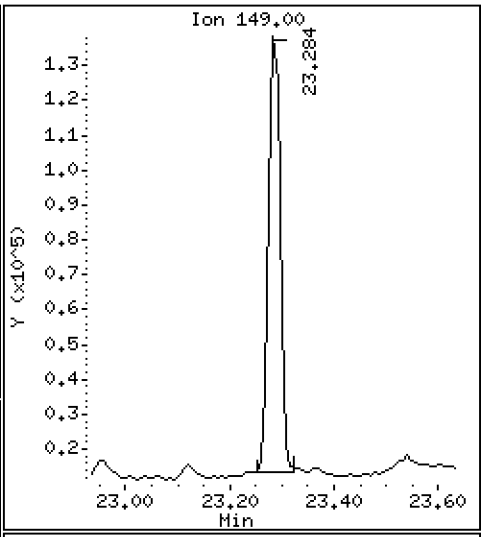
Column phase: ZB-5msi

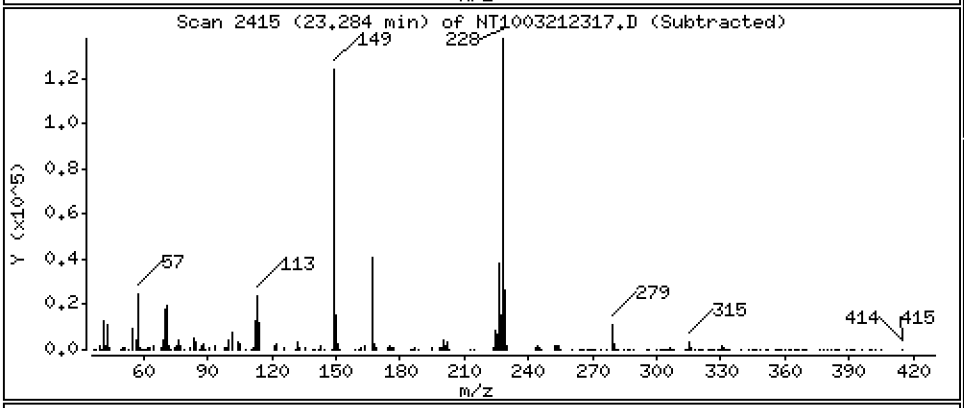
Column diameter: 0.25

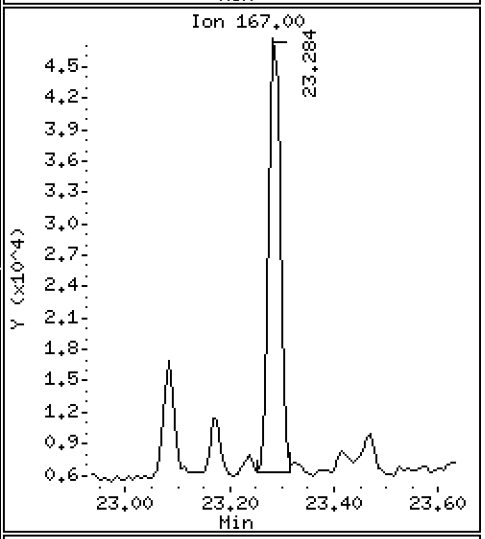
72 bis(2-Ethylhexyl)phthalate

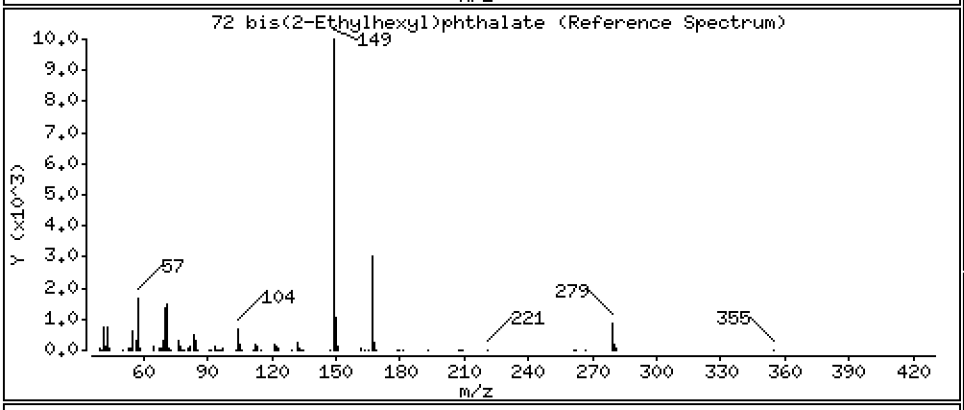
Concentration: 1.213 ug/mL

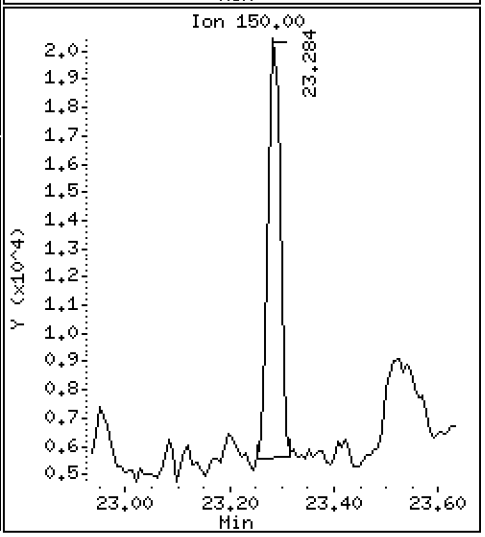


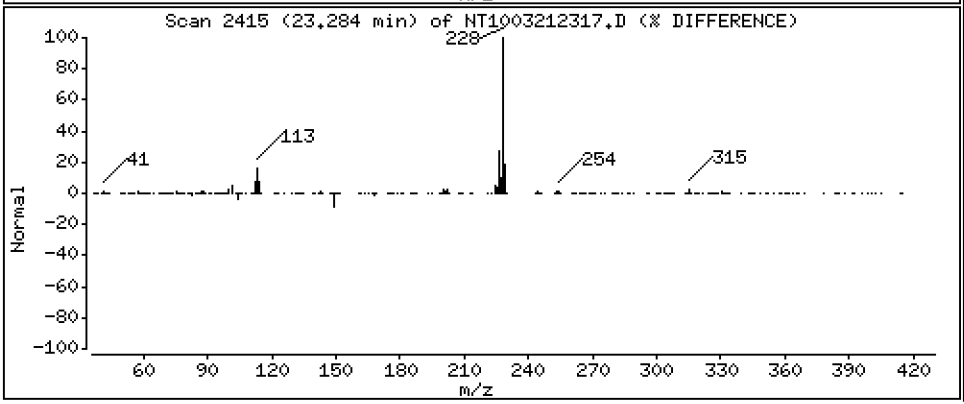












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Date : 22-MAR-2023 03:25

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-06

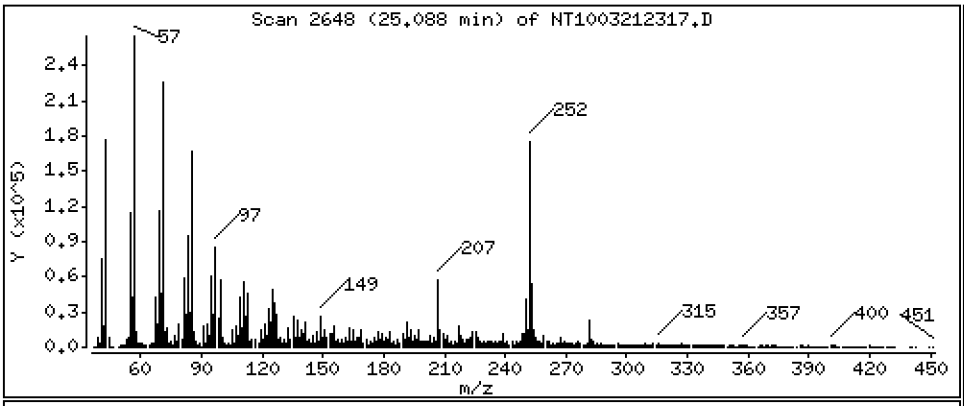
Operator: VTS

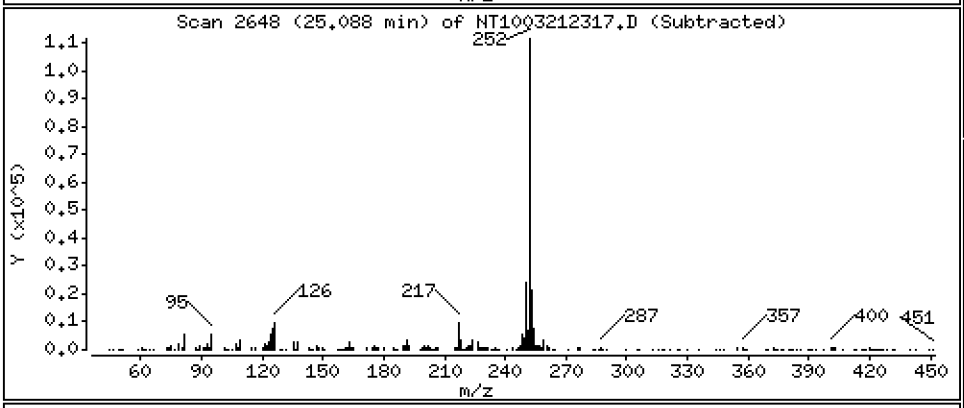
Column phase: ZB-5msi

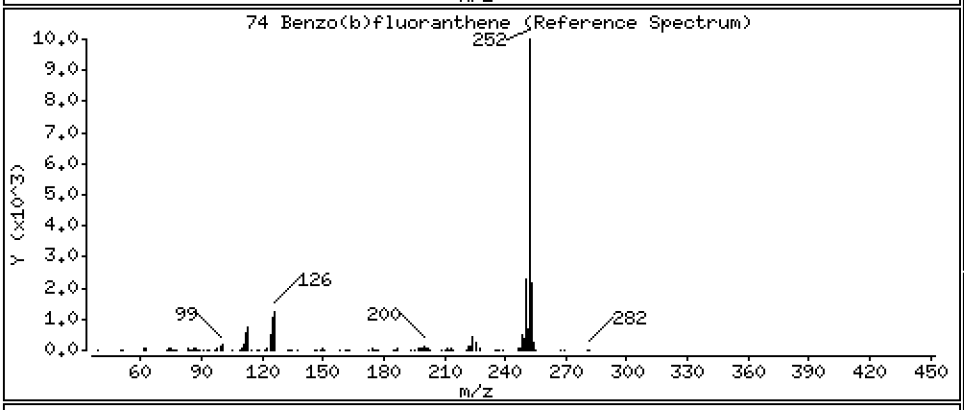
Column diameter: 0.25

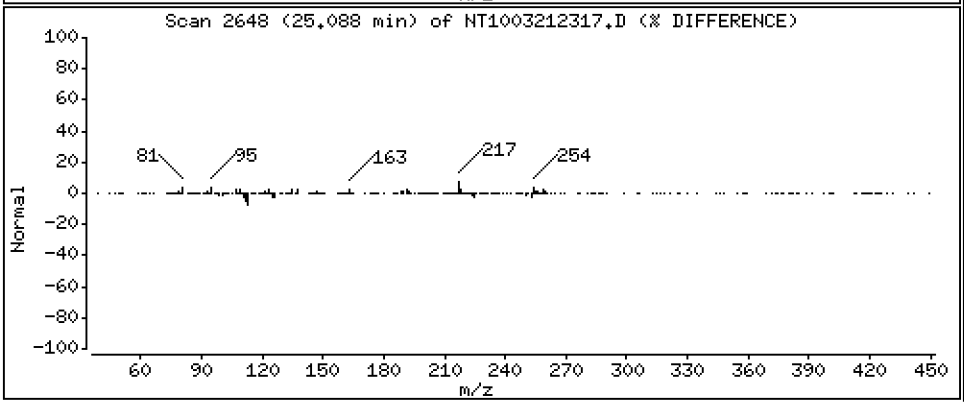
74 Benzo(b)fluoranthene

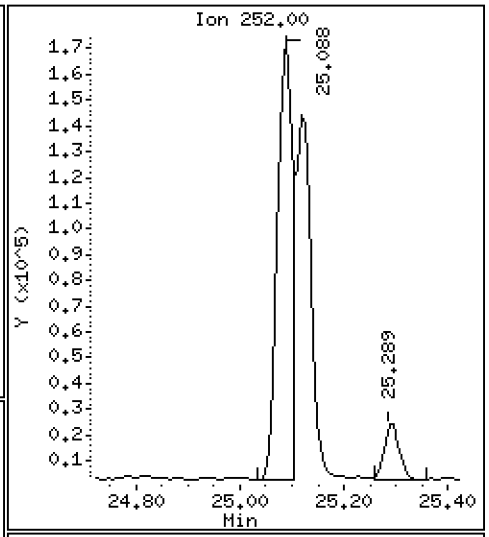
Concentration: 1.449 ug/mL

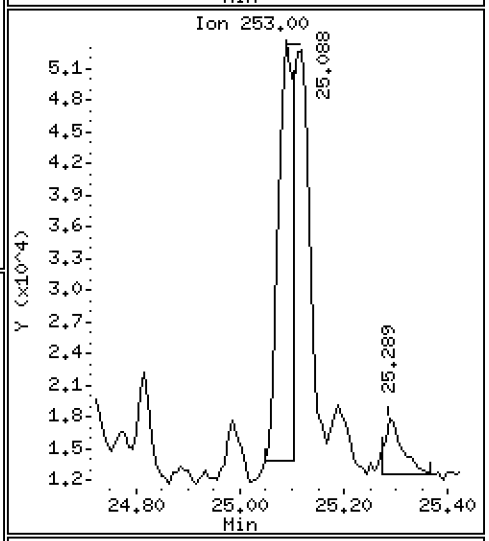


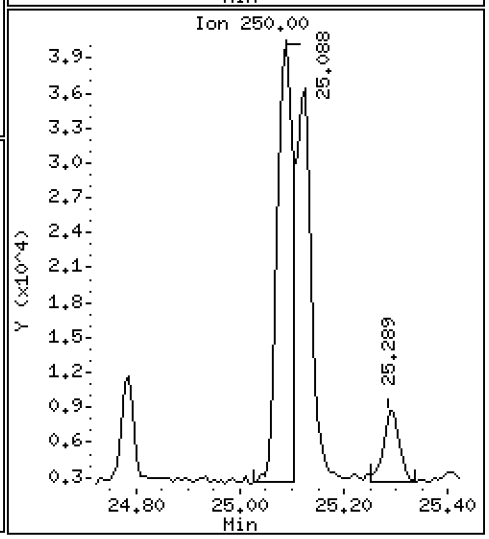












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Date : 22-MAR-2023 03:25

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-06

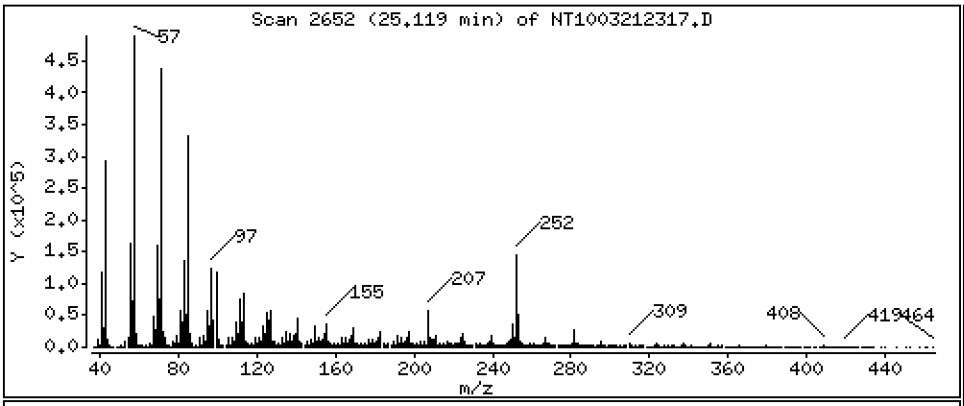
Operator: VTS

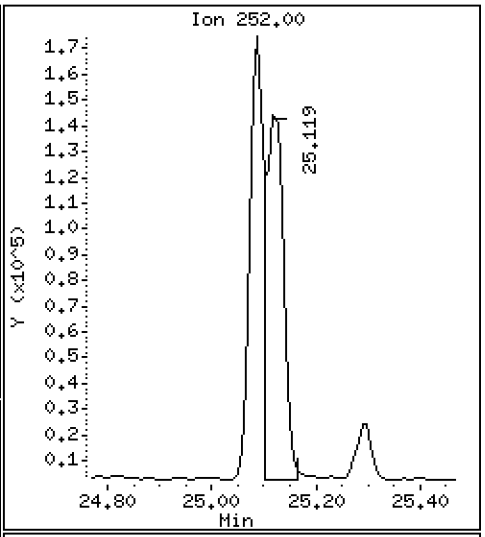
Column phase: ZB-5msi

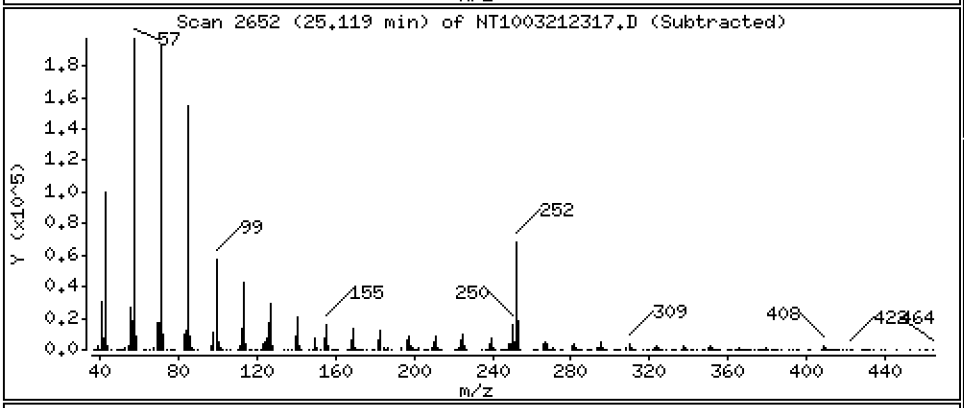
Column diameter: 0.25

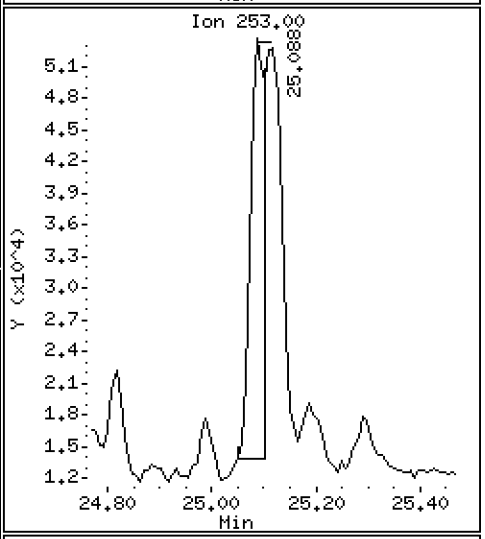
75 Benzo(k)fluoranthene

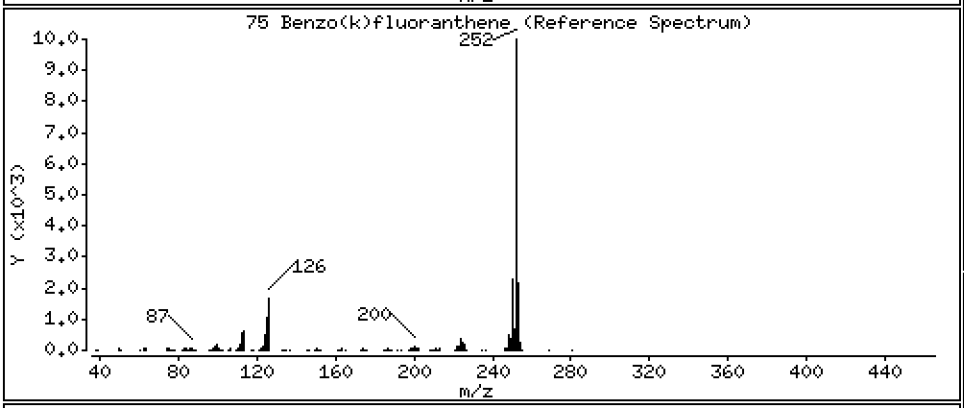
Concentration: 1.392 ug/mL

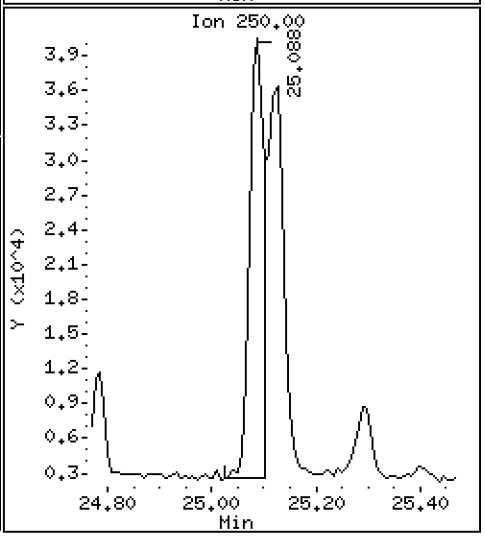


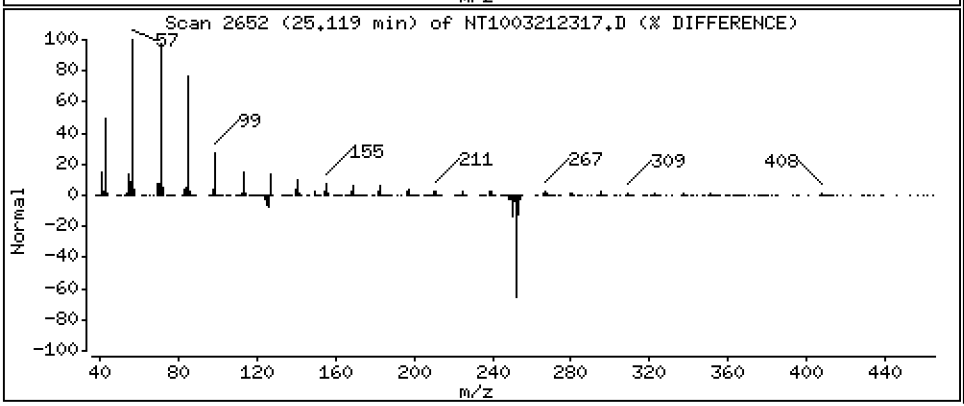












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212317.D

Date : 22-MAR-2023 03:25

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-06

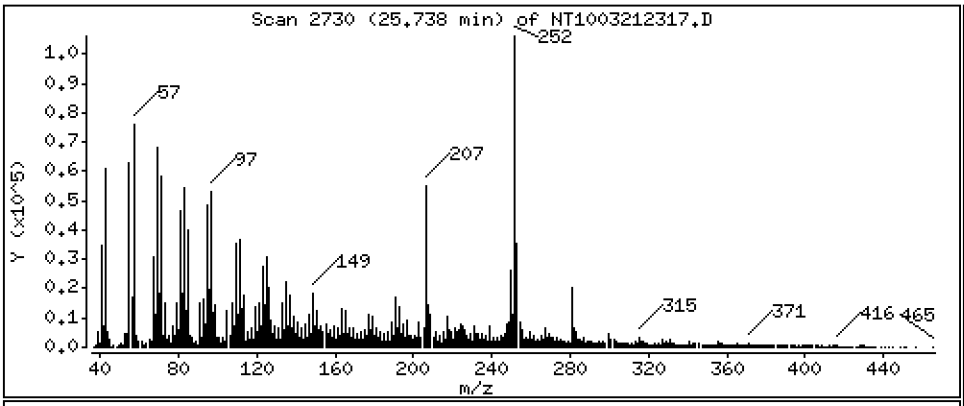
Operator: VTS

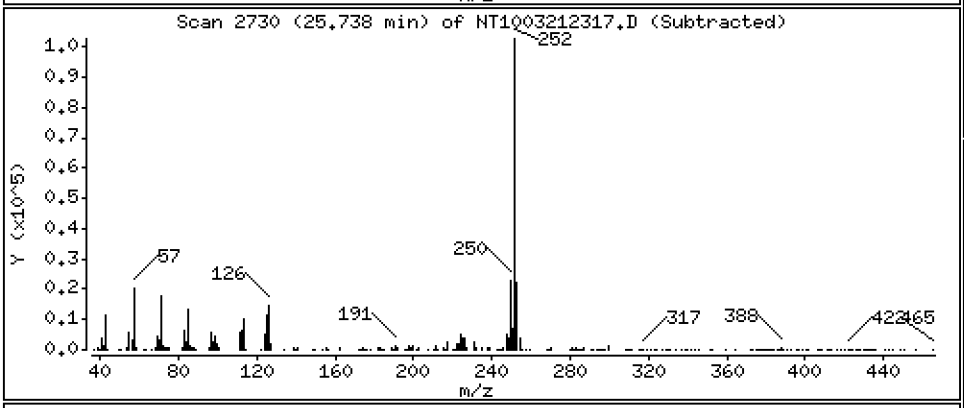
Column phase: ZB-5msi

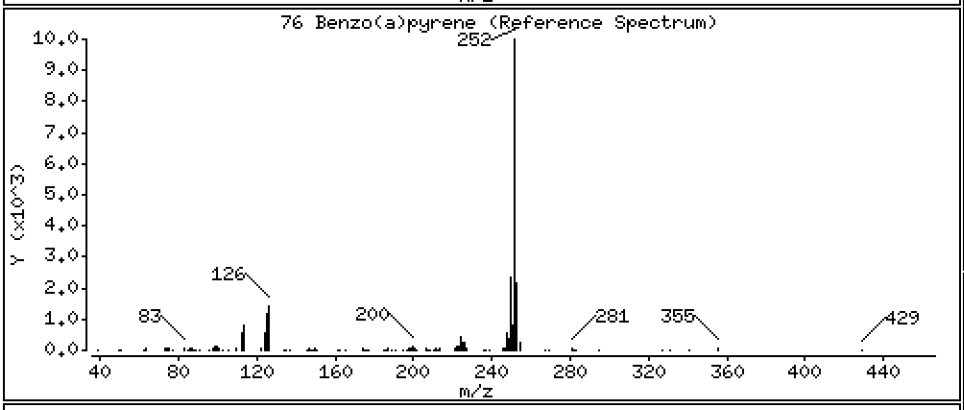
Column diameter: 0.25

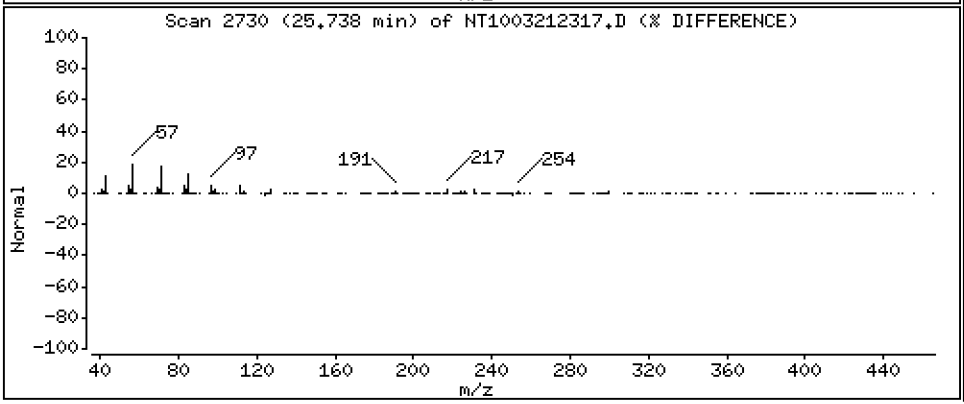
76 Benzo(a)pyrene

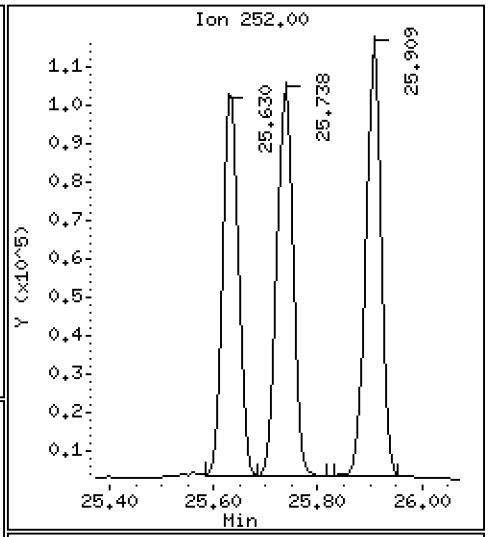
Concentration: 1.039 ug/mL

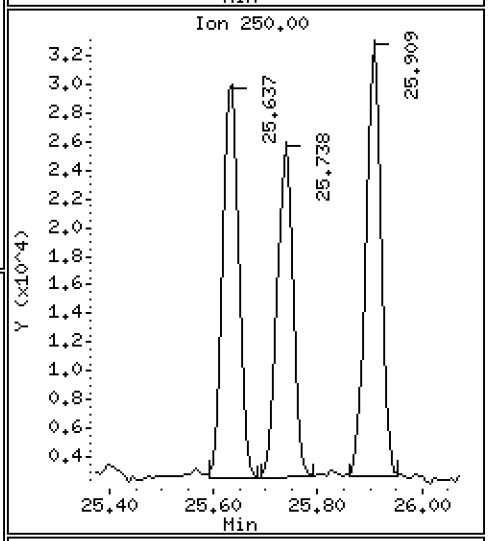


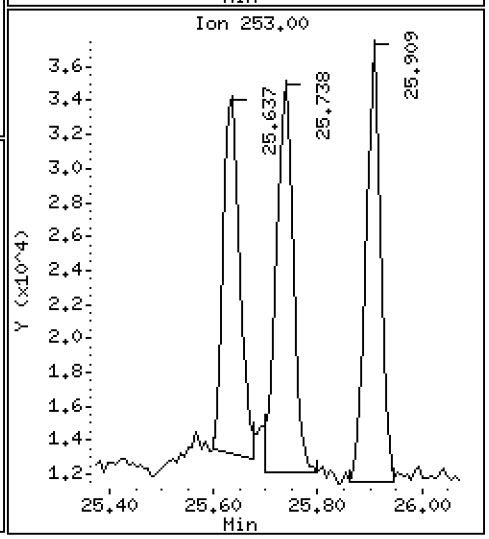












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Date : 22-MAR-2023 03:25

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-06

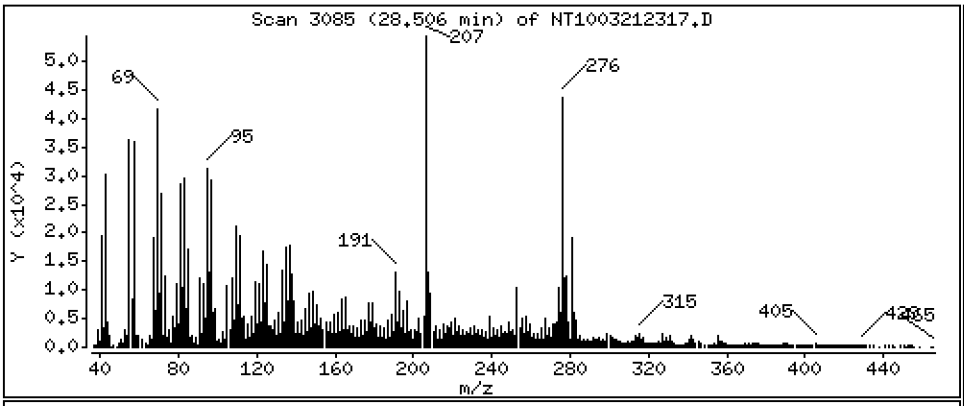
Operator: VTS

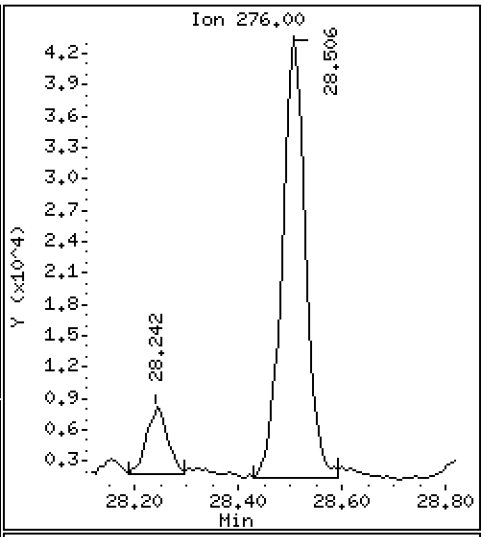
Column phase: ZB-5msi

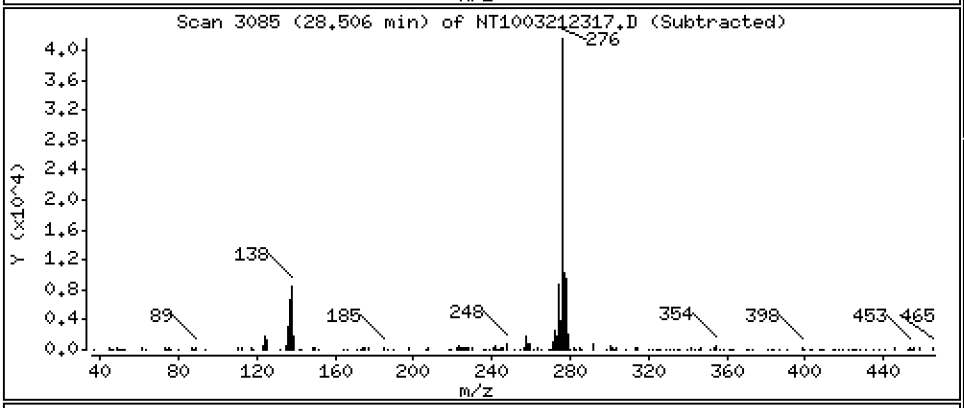
Column diameter: 0.25

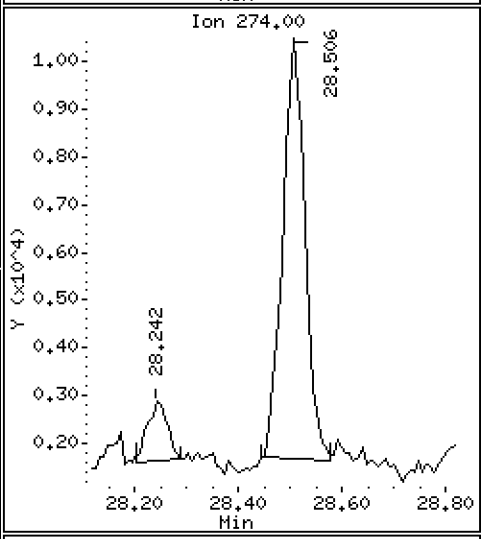
78 Indeno(1,2,3-cd)pyrene

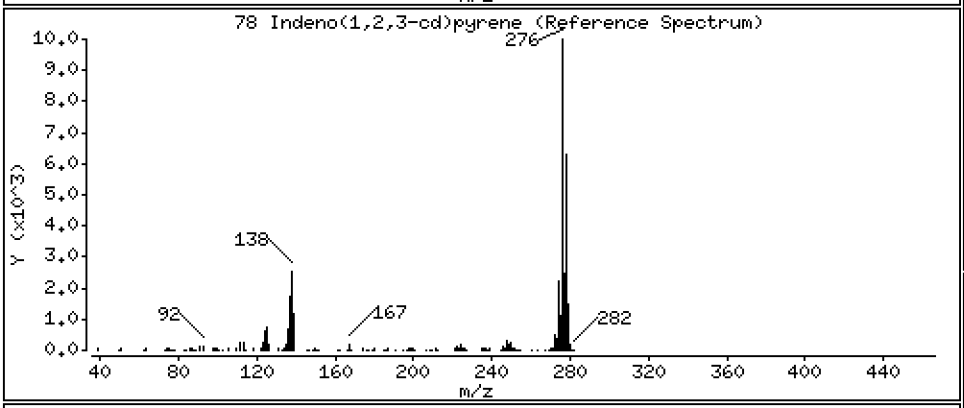
Concentration: 0.5060 ug/mL

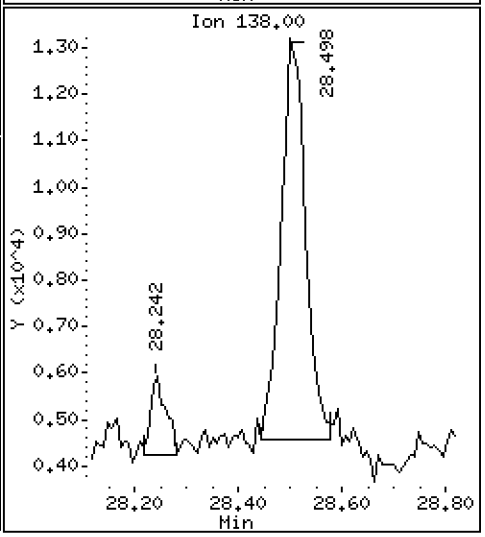


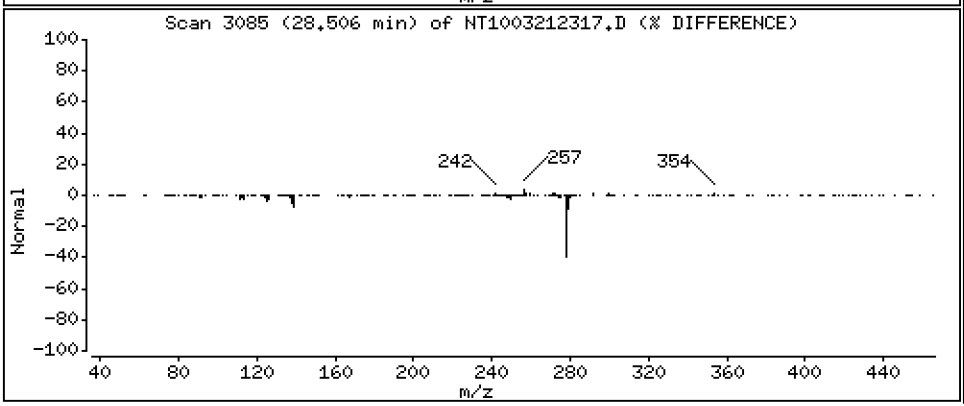












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212317.D

Date : 22-MAR-2023 03:25

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-06

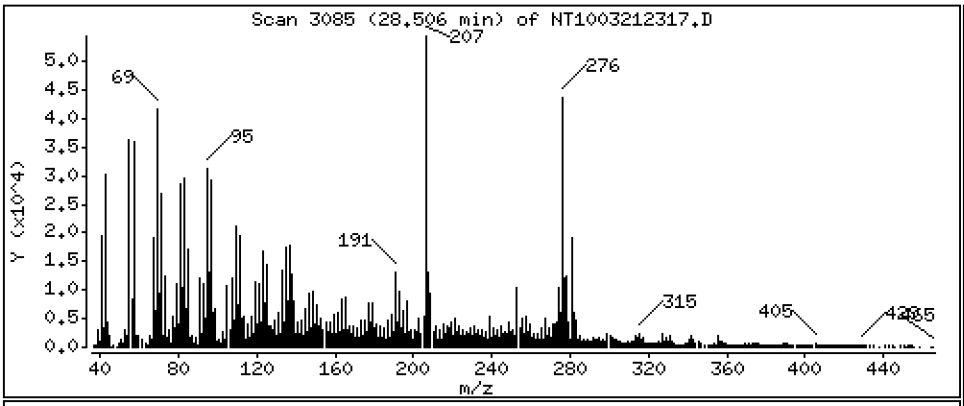
Operator: VTS

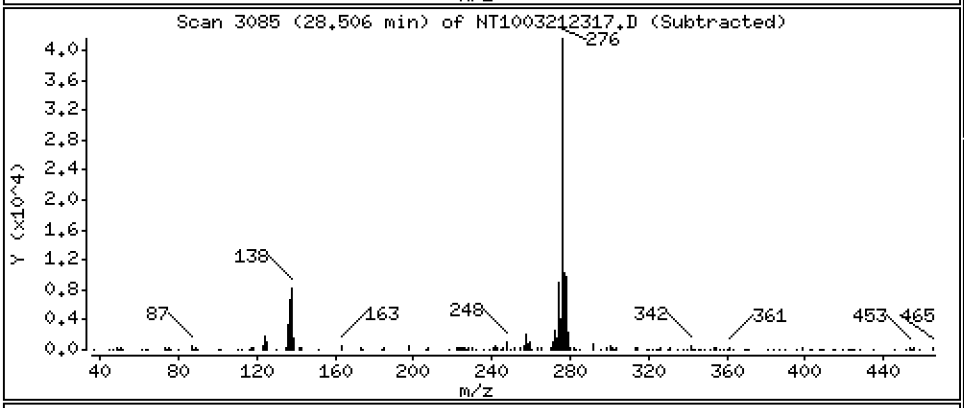
Column phase: ZB-5msi

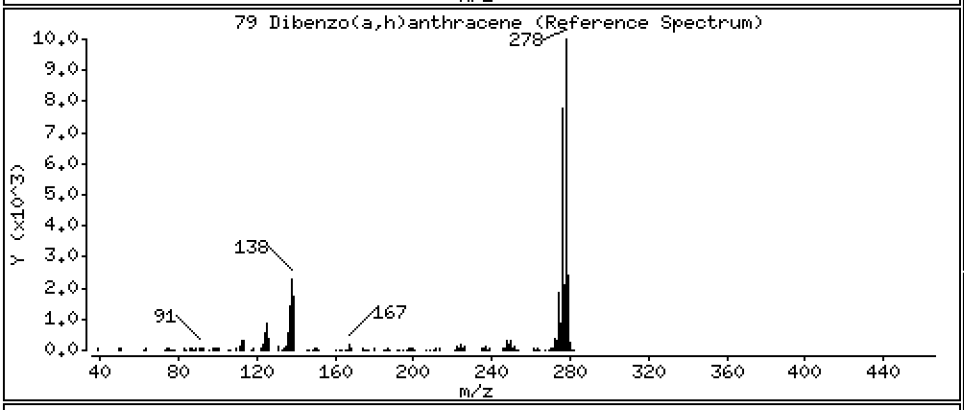
Column diameter: 0.25

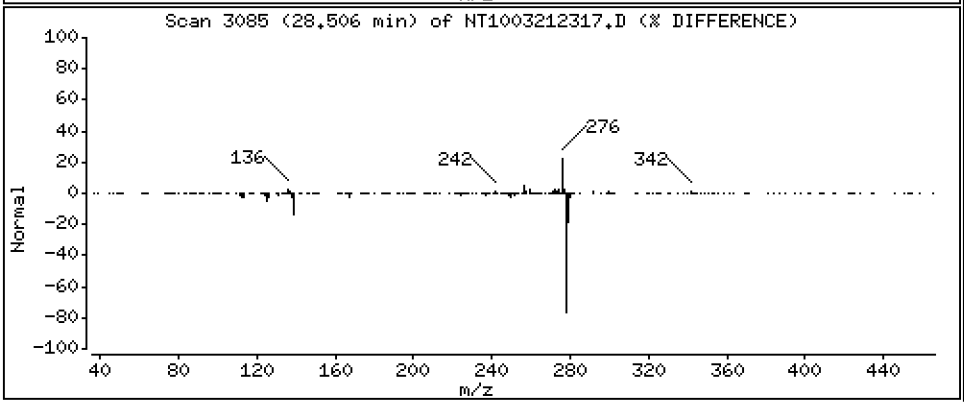
79 Dibenzo(a,h)anthracene

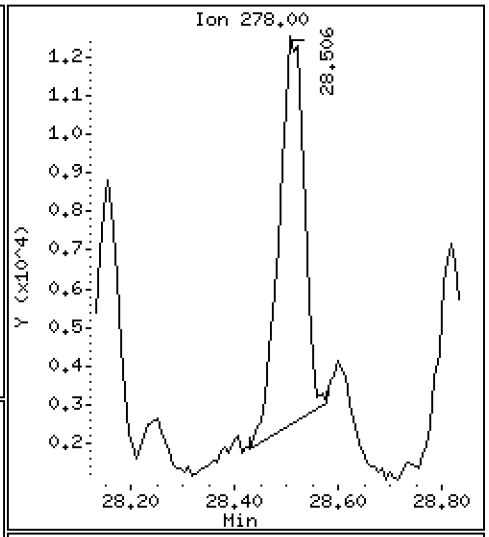
Concentration: 0.1567 ug/mL

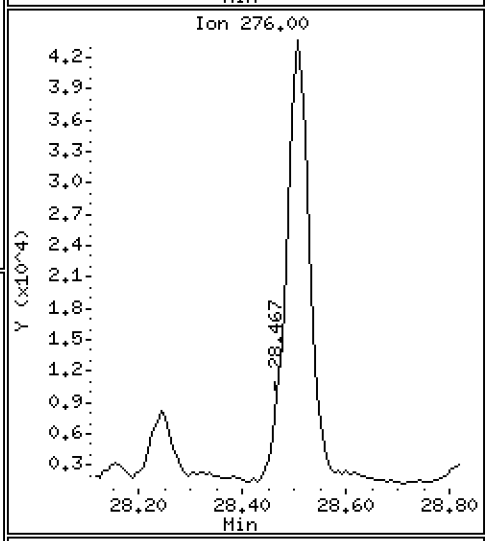


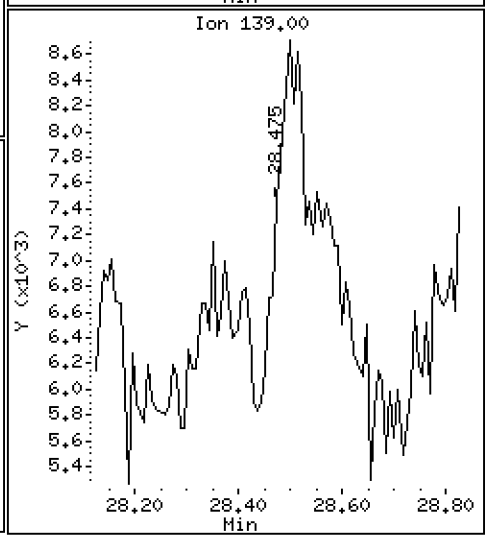












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Date : 22-MAR-2023 03:25

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-06

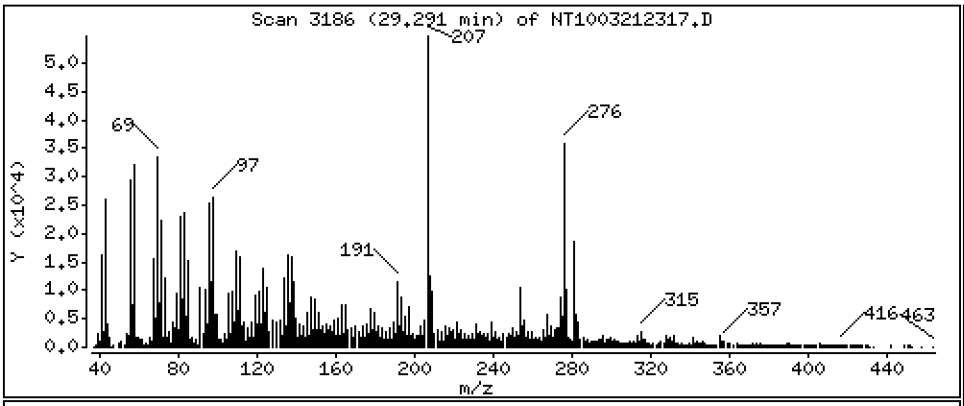
Operator: VTS

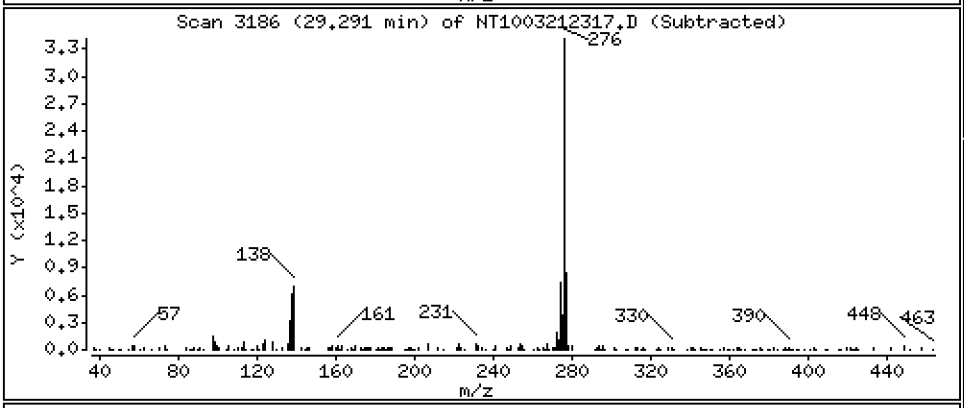
Column phase: ZB-5msi

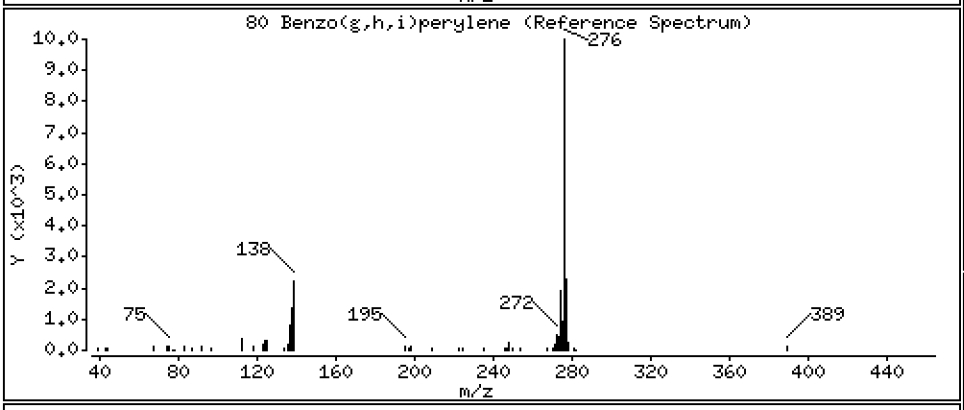
Column diameter: 0.25

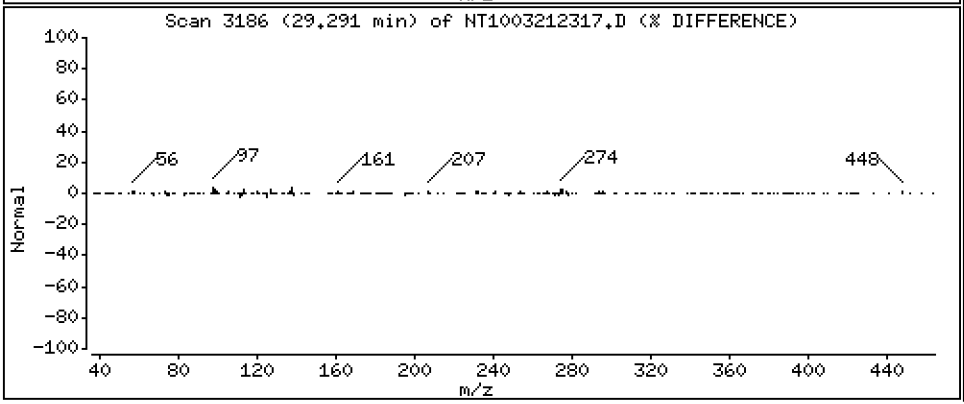
80 Benzo(g,h,i)perylene

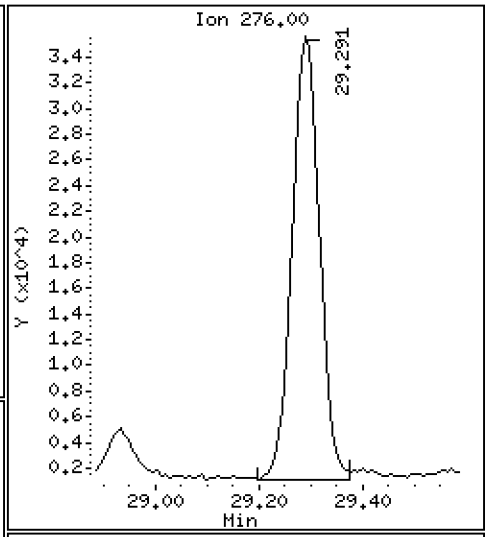
Concentration: 0.5569 ug/mL

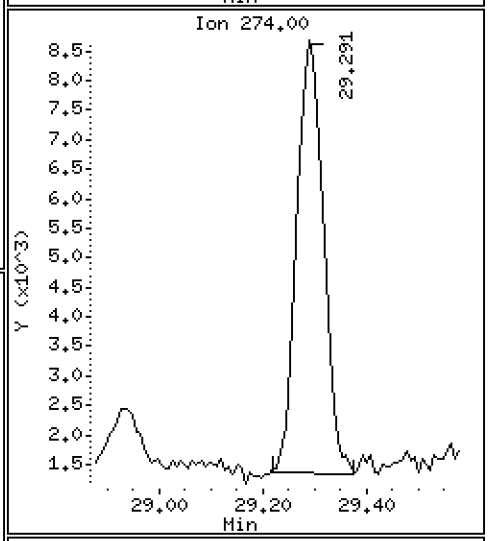


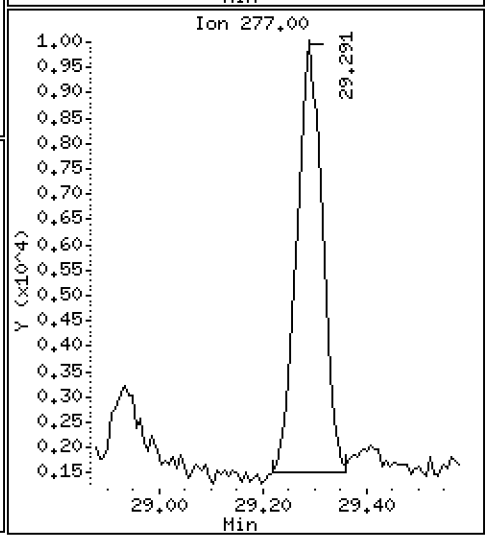












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Date : 22-MAR-2023 03:25

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-06

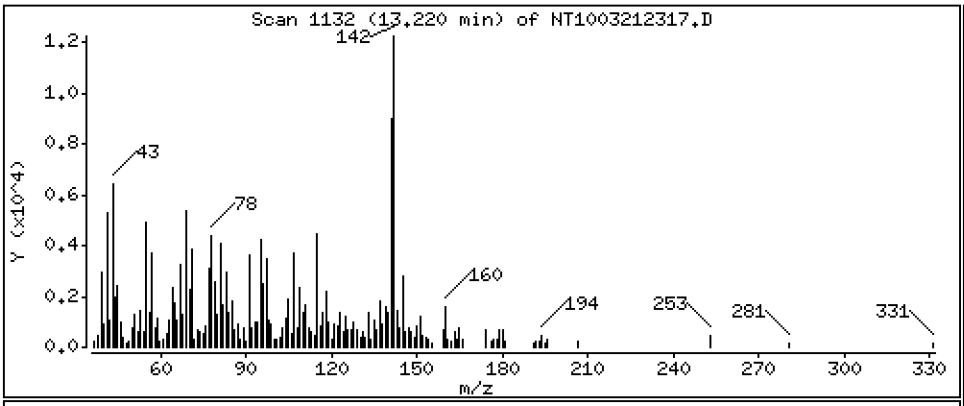
Operator: VTS

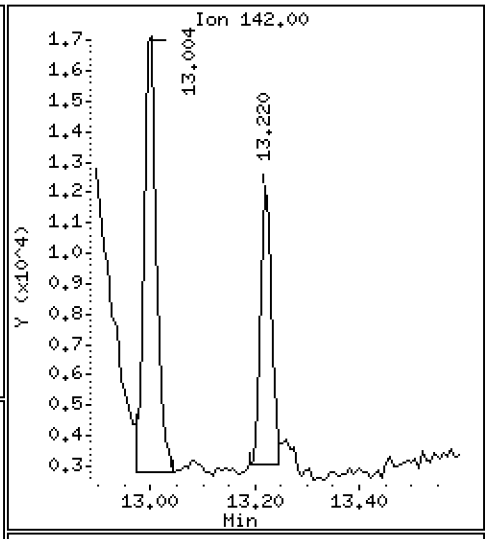
Column phase: ZB-5msi

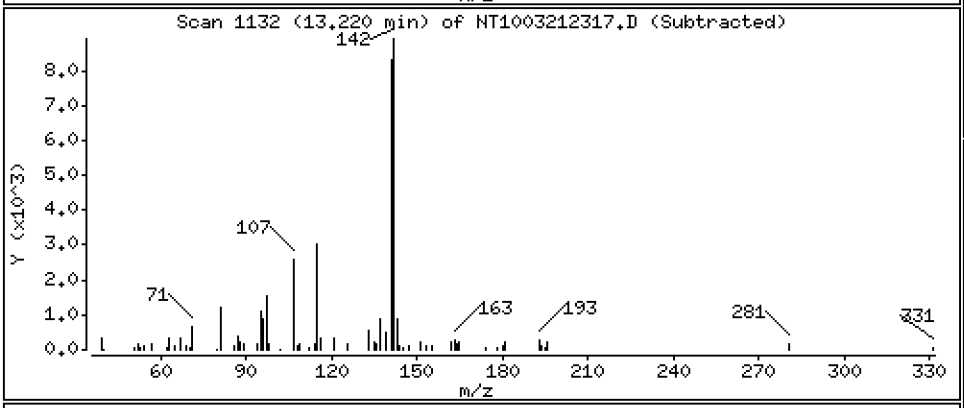
Column diameter: 0.25

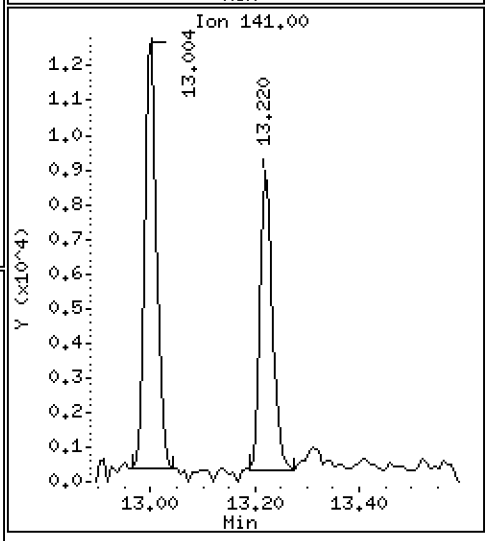
105 1-methylnaphthalene

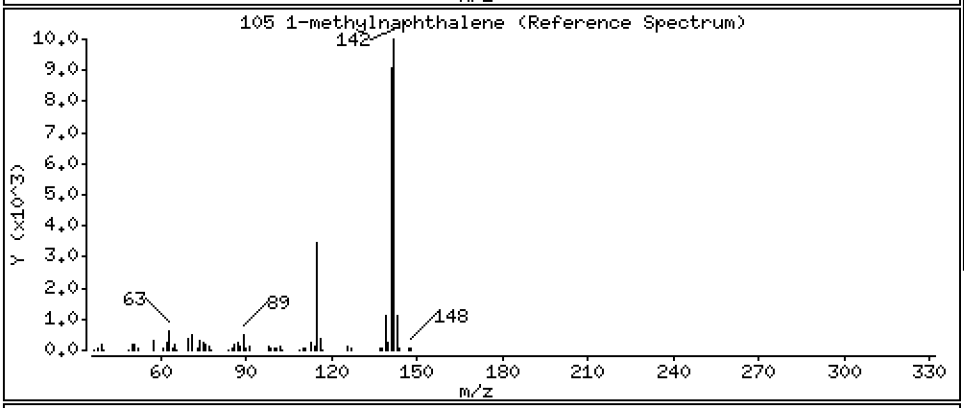
Concentration: 0.1163 ug/mL

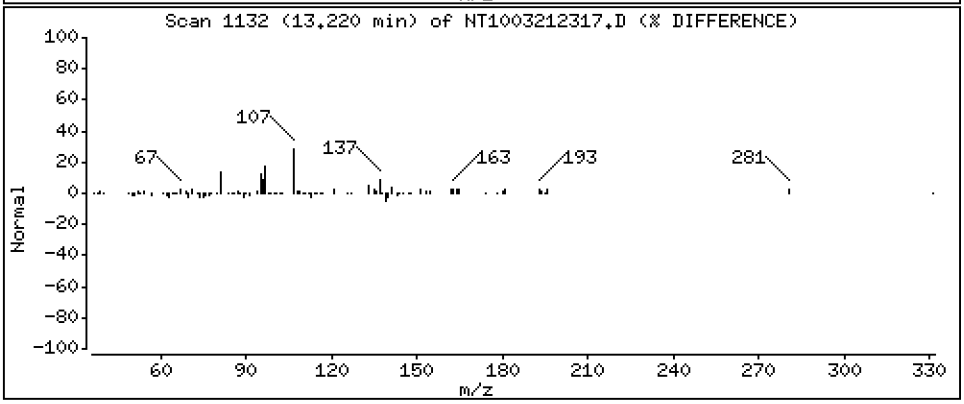












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Date : 22-MAR-2023 03:25

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-06

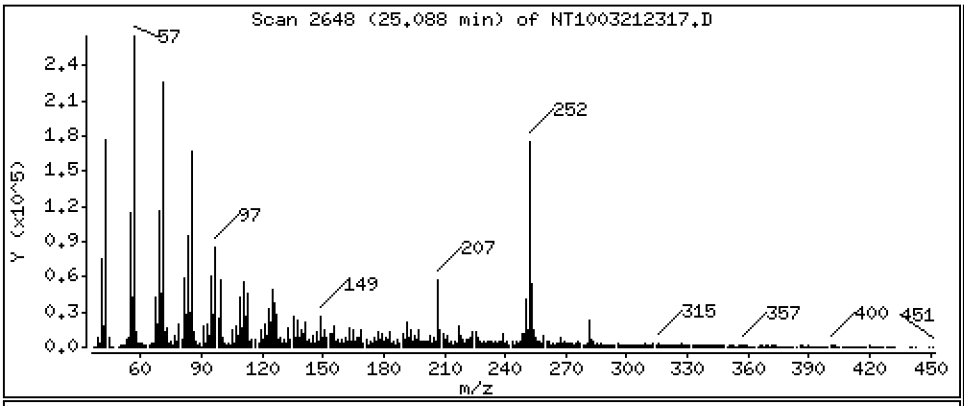
Operator: VTS

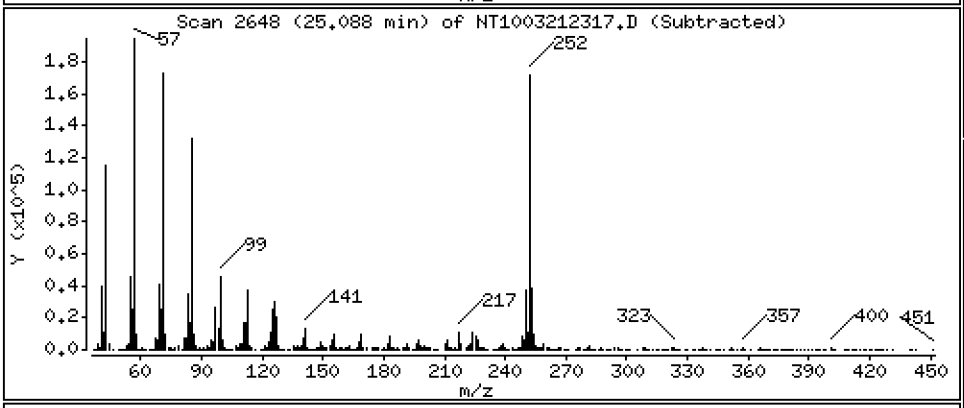
Column phase: ZB-5msi

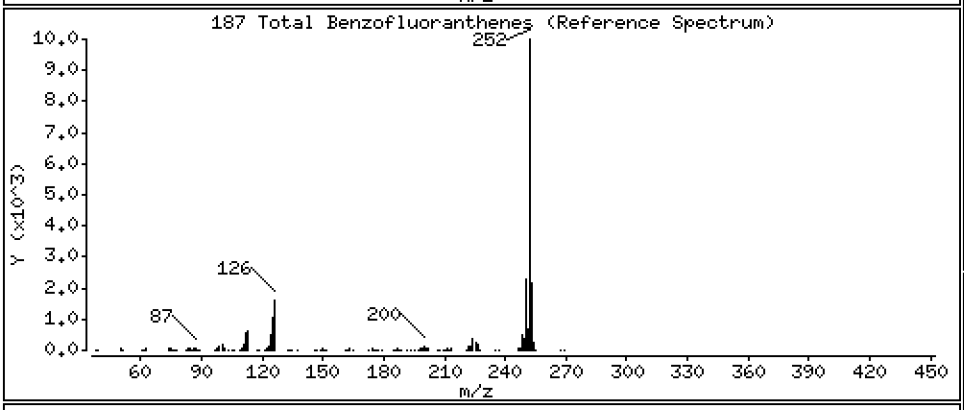
Column diameter: 0.25

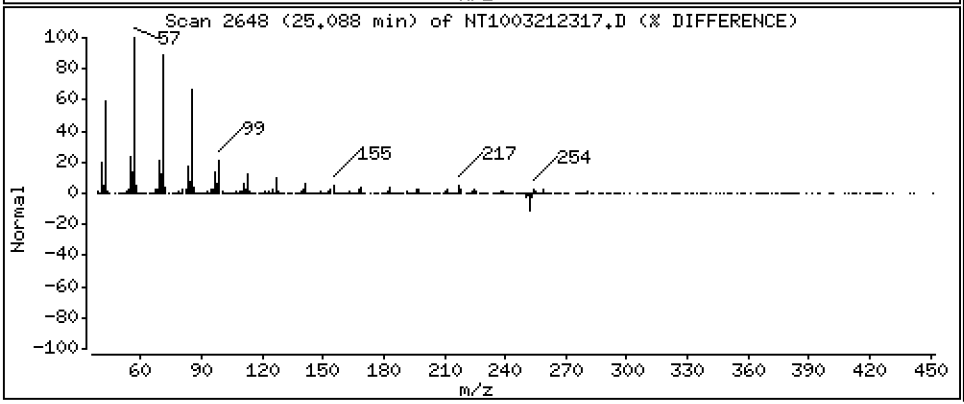
187 Total Benzofluoranthenes

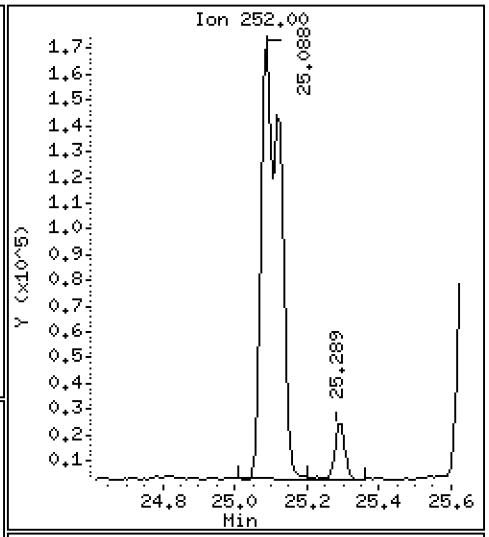
Concentration: 2.723 ug/mL

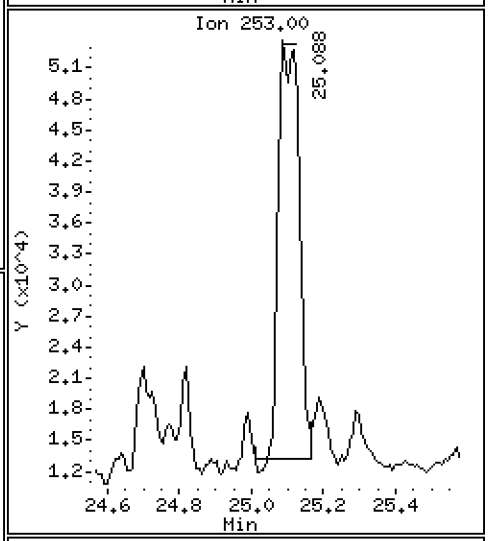


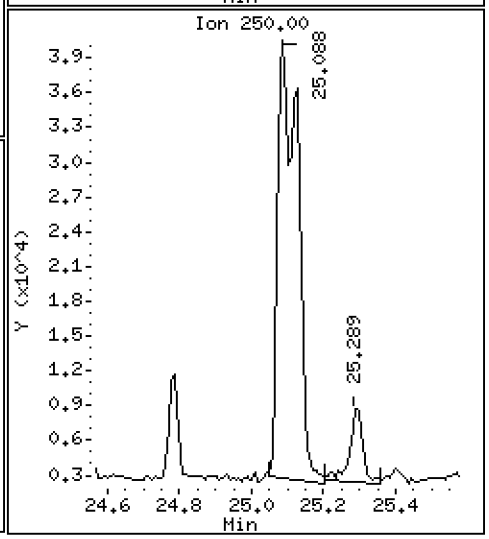












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230321.b\NT1003212317.D
Lab Smp Id: 23C0071-06
Inj Date : 22-MAR-2023 03:25
Operator : VTS Inst ID: nt10.i
Smp Info : 23C0071-06
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230321.b\ABN.m
Meth Date : 29-Mar-2023 06:54 van Quant Type: ISTD
Cal Date : 16-MAR-2023 00:22 Cal File: NT10031508.D
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	6.890	6.889	(0.729)	232098	4.03331	4.033
$	2 Phenol-d5	99	8.466	8.473	(0.895)	317975	4.21210	4.212
	3 Phenol	94	8.489	8.497	(0.898)	17327	0.22088	0.2209
$	5 2-Chlorophenol-d4	132	8.736	8.744	(0.924)	310907	4.82296	4.823
	4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
	6 2-Chlorophenol	128	Compound Not Detected.					
	7 1,3-Dichlorobenzene	146	Compound Not Detected.					
*	8 1,4-Dichlorobenzene-d4	152	9.092	9.108	(1.000)	190288	4.00000	(H)
	9 1,4-Dichlorobenzene	146	Compound Not Detected.					
$	10 1,2-Dichlorobenzene-d4	152	9.457	9.465	(1.000)	137448	2.96896	2.969
	12 1,2-Dichlorobenzene	146	Compound Not Detected.					
	11 Benzyl alcohol	108	9.372	9.379	(0.991)	51393	1.39577	1.396
	14 2,2'-oxybis(1-Chloropropane)	121	Compound Not Detected.					
	13 2-Methylphenol	108	9.597	9.604	(1.055)	1681	0.02940	0.02940(M)
	17 Hexachloroethane	117	Compound Not Detected.					
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
	15 4-Methylphenol	108	9.861	9.876	(1.043)	11630	0.19302	0.1930
$	18 Nitrobenzene-d5	82	10.187	10.202	(0.880)	210521	3.09089	3.091
	19 Nitrobenzene	77	Compound Not Detected.					
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	11.020	11.113	(0.952)	56636	1.65567	1.656(H)
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	11.572	11.587	(1.000)	674784	4.00000	
	28 Naphthalene	128	11.611	11.626	(1.003)	40800	0.22824	0.2282
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.					
	32 2-Methylnaphthalene	142	13.003	13.018	(1.124)	24039	0.18634	0.1863
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					

			QUANT SIG					CONCENTRATIONS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
	34	2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35	2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36	2-Fluorobiphenyl	172	13.777	13.800	(0.908)	513338	3.37883	3.379
	37	2-Chloronaphthalene	162	Compound Not Detected.					
	38	2-Nitroaniline	65	Compound Not Detected.					
	39	Dimethylphthalate	163	14.675	14.698	(0.967)	18593	0.14902	0.1490
	40	Acenaphthylene	152	14.853	14.876	(0.979)	25777	0.13447	0.1345
	41	2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42	Acenaphthene-d10	164	15.170	15.185	(1.000)	384071	4.00000	
	43	3-Nitroaniline	138	Compound Not Detected.					
	44	Acenaphthene	153	15.232	15.247	(1.004)	20428	0.17250	0.1725
	45	2,4-Dinitrophenol	184	Compound Not Detected.					
	46	Dibenzofuran	168	15.557	15.572	(1.025)	31429	0.17997	0.1800
	47	4-Nitrophenol	109	Compound Not Detected.					
	48	2,4-Dinitrotoluene	165	Compound Not Detected.					
	50	Diethylphthalate	149	16.121	16.144	(1.063)	18085	0.14773	0.1477
	49	Fluorene	166	16.268	16.283	(1.072)	23625	0.17196	0.1720
	51	4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52	4-Nitroaniline	138	Compound Not Detected.					
	53	4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54	N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55	2,4,6-Tribromophenol	330	16.800	16.815	(1.107)	115858	6.46603	6.466
	56	4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57	Hexachlorobenzene	284	Compound Not Detected.					
	58	Pentachlorophenol	266	Compound Not Detected.					
*	59	Phenanthrene-d10	188	18.199	18.206	(1.000)	720469	4.00000	
	60	Phenanthrene	178	18.237	18.252	(1.002)	140396	0.71464	0.7146
	61	Anthracene	178	18.330	18.338	(1.007)	82627	0.43845	0.4385
	62	Carbazole	167	18.663	18.670	(1.026)	21942	0.12993	0.1299
	63	Di-n-butylphthalate	149	19.468	19.475	(1.070)	19867	0.08749	0.08749
	64	Fluoranthene	202	20.644	20.620	(0.888)	522315	2.04584	2.046
	65	Pyrene	202	21.054	21.046	(0.906)	611040	2.33312	2.333
$	66	Terphenyl-d14	244	21.340	21.332	(0.918)	663131	3.37162	3.372
	67	Butylbenzylphthalate	149	22.261	22.261	(0.958)	10653	0.11588	0.1159(M)
	68	Benzo(a)anthracene	228	23.206	23.198	(0.999)	237900	1.06078	1.061
*	69	Chrysene-d12	240	23.237	23.229	(1.000)	635377	4.00000	
	70	3,3'-Dichlorobenzidine	252	Compound Not Detected.					
	71	Chrysene	228	23.276	23.275	(1.002)	303854	1.38679	1.387
	72	bis(2-Ethylhexyl)phthalate	149	23.283	23.283	(0.959)	183689	1.21332	1.213
*	134	Di-n-octylphthalate-d4	153	24.274	24.266	(1.000)	1034441	4.00000	
	73	Di-n-octylphthalate	149	Compound Not Detected.					
	74	Benzo(b)fluoranthene	252	25.087	25.071	(0.970)	339259	1.44877	1.449
	75	Benzo(k)fluoranthene	252	25.118	25.118	(0.972)	330996	1.39202	1.392(M)
	76	Benzo(a)pyrene	252	25.738	25.722	(0.996)	217512	1.03893	1.039
*	77	Perylene-d12	264	25.854	25.830	(1.000)	722414	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	28.506	28.466	(1.103)	134768	0.50596	0.5060
	79	Dibenzo(a,h)anthracene	278	28.506	28.482	(1.103)	34646	0.15667	0.1567(M)
	80	Benzo(g,h,i)perylene	276	29.290	29.235	(1.133)	128381	0.55694	0.5569
	90	N-Nitrosodimethylamine	74	Compound Not Detected.					
	91	Aniline	93	Compound Not Detected.					
	93	Benzidine	184	Compound Not Detected.					
	103	Pyridine	79	Compound Not Detected.					
	105	1-methylnaphthalene	142	13.220	13.243	(1.142)	13748	0.11632	0.1163
	111	Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.087	25.118	(0.970)	615596	2.72270	2.723
120 2,3,4,6-Tetrachlorophenol	232	Compound Not Detected.					

QC Flag Legend

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

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1003212317.D
Lab Smp Id: 23C0071-06
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230321.b\ABN.m
Misc Info:

Calibration Date: 21-MAR-2023
Calibration Time: 17:46
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	138414	69207	276828	190288	37.48
27 Naphthalene-d8	511348	255674	1022696	674784	31.96
42 Acenaphthene-d10	293241	146621	586482	384071	30.97
59 Phenanthrene-d10	535484	267742	1070968	720469	34.55
69 Chrysene-d12	464733	232367	929466	635377	36.72
134 Di-n-octylphthala	716354	358177	1432708	1034441	44.40
77 Perylene-d12	509704	254852	1019408	722414	41.73

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.11	8.61	9.61	9.09	-0.17
27 Naphthalene-d8	11.59	11.09	12.09	11.57	-0.13
42 Acenaphthene-d10	15.19	14.69	15.69	15.17	-0.10
59 Phenanthrene-d10	18.21	17.71	18.71	18.20	-0.04
69 Chrysene-d12	23.23	22.73	23.73	23.24	0.04
134 Di-n-octylphthala	24.27	23.77	24.77	24.27	0.03
77 Perylene-d12	25.83	25.33	26.33	25.85	0.09

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

REVIEW SUMMARY FOR FILE - NT1003212317.D

Lab ID: 23C0071-06
nt10.i, 20230321.b\ABN.m,   22-MAR-2023 03:25

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

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
1.055	1.015	0.0407	2-Methylphenol
0.952	0.959	-0.0068	Benzoic acid

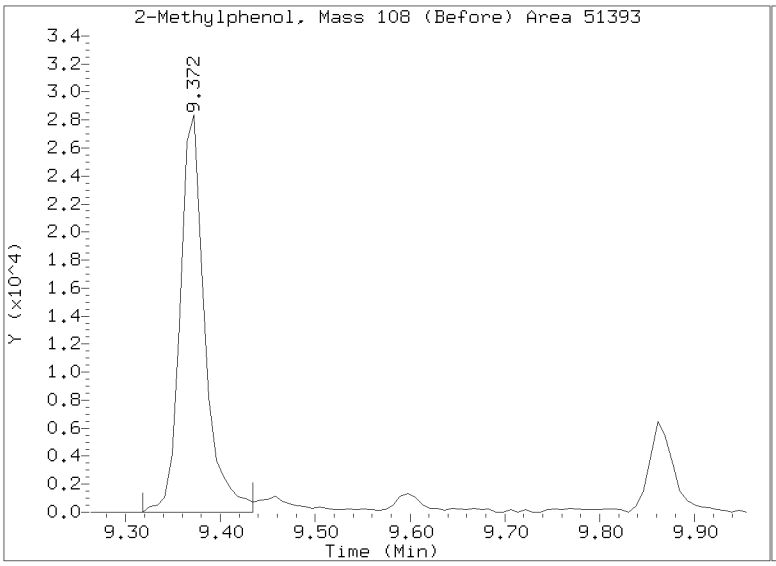
RRT check based on Ccal File: NT1003212302.D

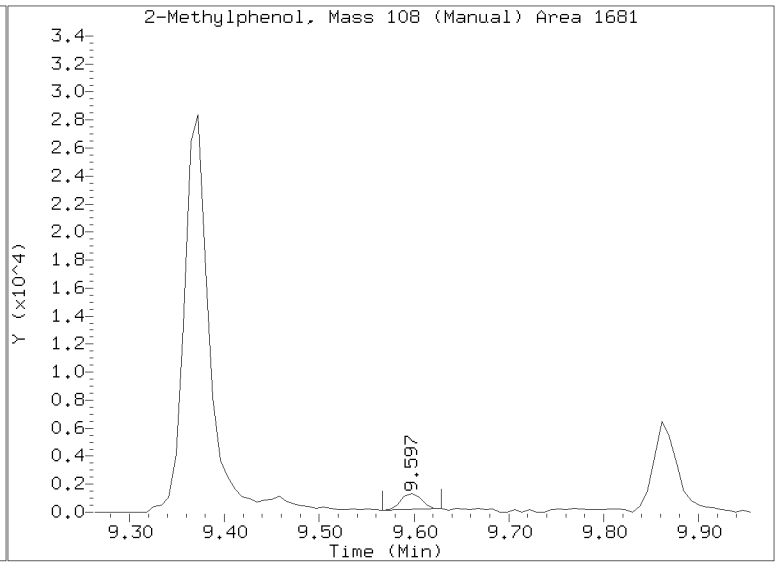
On Column LOD for nt10.i, 20230321.b\ABN.m, ICAL.sub = 0.0000

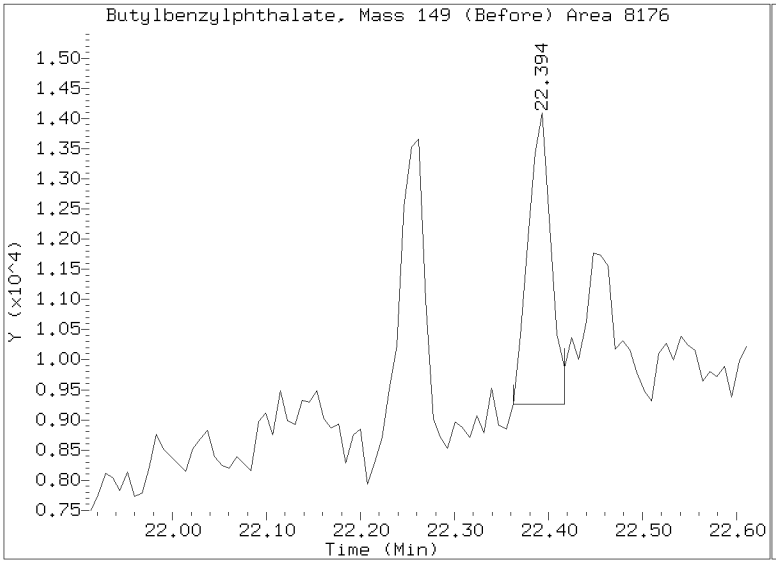
* Only compounds listed in the work order have been verified by the analyst *

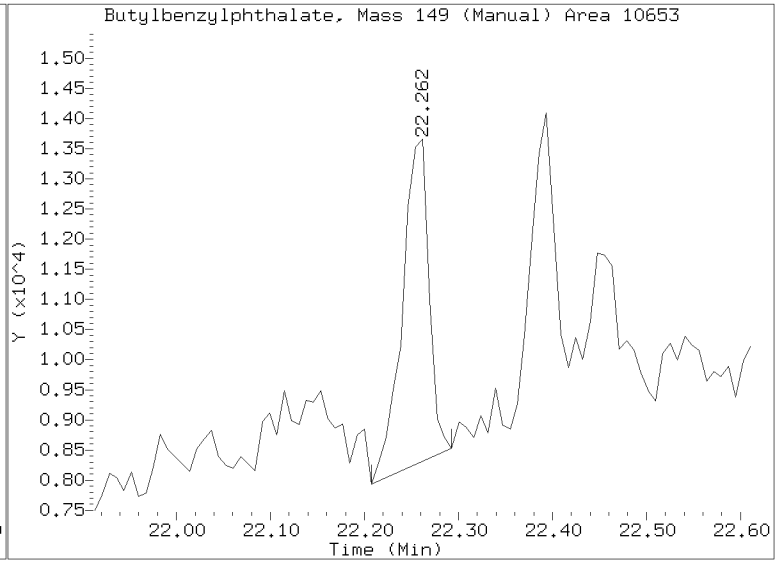
Quant Ion Manual Peak Adjustment Report

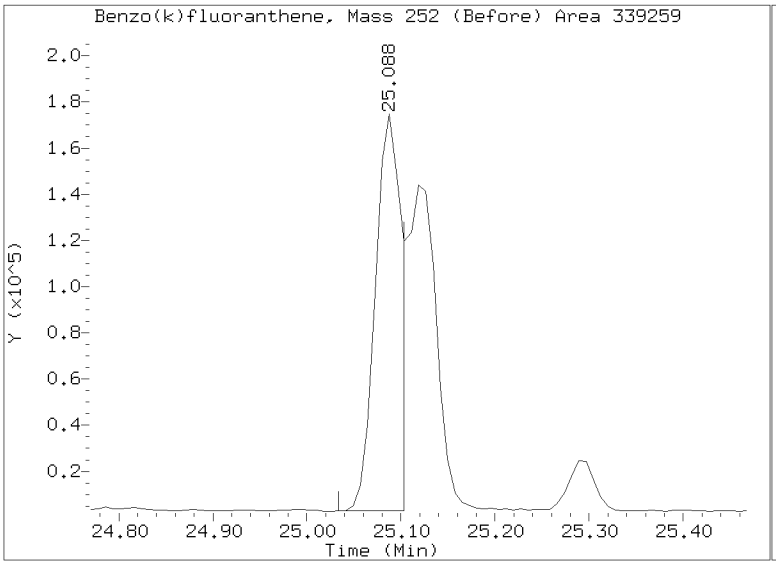
Datafile: //target/share/chem3/nt10.i/20230321.b/NT1003212317.D
Injection Date: 22-MAR-2023 03:25
Lab ID:23C0071-06 Client ID:
Report Date: 03/29/2023 08:04

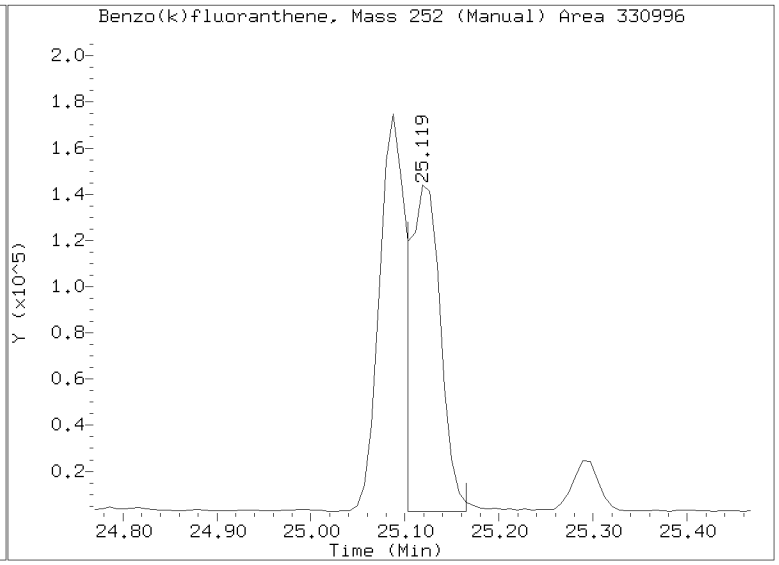






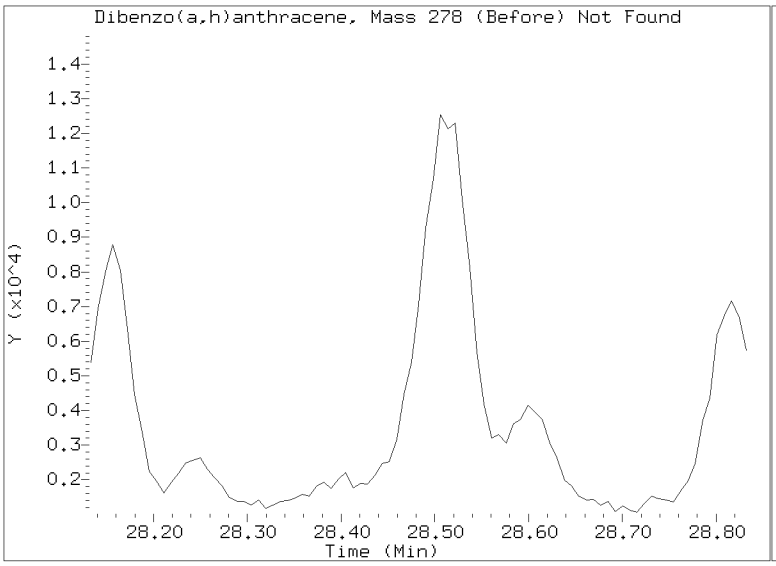


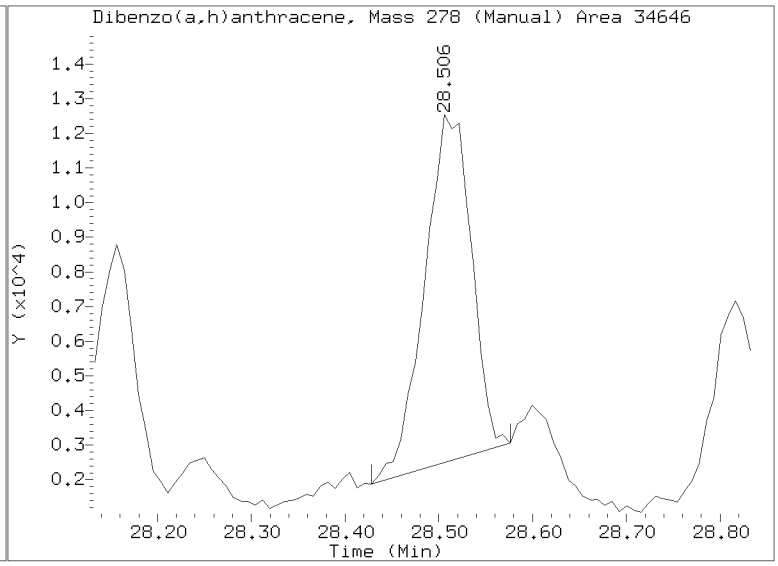




Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230321.b/NT1003212317.D
Injection Date: 22-MAR-2023 03:25
Lab ID:23C0071-06 Client ID:
Report Date: 03/29/2023 08:04





PREPARATION BATCH SUMMARY

EPA 8270E

Laboratory: Analytical Resources, LLC SDG: 23C0071

Client: Anchor QEA, LLC Project: AOC5 MR Phase 1

Batch: BLC0109 Batch Matrix: Solid Preparation: EPA 3546 (Microwave)

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW23-SS1000	23C0071-01	NT1003212310.D	03/07/23 10:21	
LDW23-SS1037	23C0071-02	NT1003212311.D	03/07/23 10:21	
LDW23-SS1036	23C0071-03	NT1003212312.D	03/07/23 10:21	
LDW23-SS1044	23C0071-04	NT1003212313.D	03/07/23 10:21	
LDW23-SS1048	23C0071-05	NT1003212314.D	03/07/23 10:21	
LDW23-SS1054	23C0071-06	NT1003212317.D	03/07/23 10:21	
Blank	BLC0109-BLK1	NT1003212306.D	03/07/23 10:21	
LCS	BLC0109-BS1	NT1003212307.D	03/07/23 10:21	
LCS Dup	BLC0109-BSD1	NT1003212308.D	03/07/23 10:21	
LDW23-SS1048	BLC0109-MS1	NT1003212315.D	03/07/23 10:21	
LDW23-SS1048	BLC0109-MSD1	NT1003212316.D	03/07/23 10:21	
Reference	BLC0109-SRM1	NT1003212309.D	03/07/23 10:21	

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BLC0109

Prepared using: EPA 3546 (Microwave)

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

Matrix: Solid Date Prepared: 3/7/23 Balance ID: B139298002 Set Up By: CTO 3/6/23

WO Comments
23C0071: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM I009127 PCB RM J006840-43, 7935-36,K011477-79, MS/MSD </E>
<H>BPR J006840-43, 7935-36, K011477-79, Dup </H> Store in freezer (except GS)

The following standards may be missing from this batch!

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

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

Lab Number & Container	% Solids	Initial (g) Target Dry: 10 (Wet) Actual	(REQ) GPC C/U (1:1) 1 2 3	Water Wash 1mL	Final Effective Vol (mL)	Vol (mL) to Lab	Extraction Comments
23C0071-01 A	46.2	(21.63) 21.73	(1:1)	1mL	1	0.5	
23C0071-02 A	50.8	(19.70) 19.97	(1:1)	1mL	1	0.5	
23C0071-03 A	47.6	(21.02) 21.57	(1:1)	1mL	1	0.5	
23C0071-04 A	47.8	(20.93) 20.95	(1:1)	1mL	1	0.5	
23C0071-05 A	50.0	(20.00) 20.00	(1:1)	1mL	1	0.5	
23C0071-06 A	50.4	(19.83) 19.99	(1:1)	1mL	1	0.5	

Batch QC

Lab Number	% Solids	Initial (g) Target Dry: 10 (Wet) Actual	(REQ) GPC C/U (1:1) 1 2 3	Water Wash 1mL	Final Effective Vol (mL)	Vol (mL) to Lab	Extraction Comments
BLC0109-BLK1	100.0	(10.00) 10.00	(1:1)	1mL	1	0.5	Use 5g Neutral Sodium Sulfate for Blanks
BLC0109-BS1	100.0	(10.00) 10.00	(1:1)	1mL	1	0.5	Use 5g Neutral Sodium Sulfate for Blanks
BLC0109-BSD1	100.0	(10.00) 10.00	(1:1)	1mL	1	0.5	Use 5g Neutral Sodium Sulfate for Blanks
BLC0109-MS1	50.0	(20.00) 20.00	(1:1)	1mL	1	0.5	Use 23C0071-05
BLC0109-MSD1	50.0	(20.00) 20.00	(1:1)	1mL	1	0.5	Use 23C0071-05
BLC0109-SRM1	100.0	~~(10.00)~~ (1.00) 1.00	(1:1)	1mL	1	0.5	Use K003477

+1g DI WATER

CR 3/7/23 — Client ID verified By / Date

LJ 3/10/23 — Preparation Reviewed By / Date

03/07/23 03/08/23 1045 — Extraction Date and Time

3/7/23

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BLC0109

Prepared using: EPA 3546 (Microwave)

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

WO Comments
23C0071: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM I009127 PCB RM J006840-43, 7935-36,K011477-79, MS/MSD </E>
<H>BPR J006840-43, 7935-36, K011477-79, Dup </H> Store in freezer (except GS)

Prep Steps

Microwave
1 2 3
CR 3/7/23
Analyst/Date

Pre-GPC KD
100°C
Exchange to Hexane
(add 10 mL to KD)
0 2 4 5 6
LD 3-8
Analyst/Date

TurboVap
Pre GPC
1 2 3 4 5
NRB 3/8/23
Analyst/Date

Post GPC KD
80-85°C
1 0 2 4 5 6
LD 3-10
Analyst/Date

TurboVap
1 2 3 4 5
LJ 3/10/23
Analyst/Date

Water Wash
LJ 3/10/23
Analyst/Date

Reagents Used

Station/Reagent	Standard ID
Microwave Analyst: CR Date: 3/7/23	
Anhydrous Sodium Sulfate	L002114
1:1 Methylene Chloride/Acetone	L001416
Methylene Chloride	K005941
Pre-Deactivated Glass Wool	L001923
Pre GPC KD Analyst: LD Date: 3-8-23	
Pre-Deactivated Glass Wool	
Anhydrous Sodium Sulfate	
Methylene Chloride	K005158
Hexane	L000089
GPC Filter Prep Analyst: NRB Date: 3/8/23	
Methylene Chloride	K005158
GPC Filter	L001799
GPC Analyst: LJ for NRB Date: ~~LD~~ 3/9/23	
Methylene Chloride	K005941
GPC Calibration File	CUB032-GPC2
Post GPC KD Analyst: LD Date: 3-10-23	
Methylene Chloride	K005941
Vialing Analyst: LJ Date: 3/10/23	
Methylene Chloride	K005941

Surrogates & Spike Standards Used

Type	Vial ID / Standard ID	Vol uL	Analyst	Witness
Surrogate 100/150µg/mL	A L001153 Exp Date: 8/1/23	50µL	CR	
Full List Spike (Freezer) 100µg/mL	7 L001812 (V) Exp Date: L001781 8/4/23	50µL	CR	
Base Spike 200µg/mL	56 L001812 (V) Exp Date: L001778 8/20/23	50µL	CR	
Acid Spike 100/200µg/mL	38 L001812 (V) Exp Date: L001779 8/20/23	50µL	CR	

MANUALLY ENTER EXPIRATION DATES!

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

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

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BLC0109

Prepared using: EPA 3546 (Microwave)

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

WO Comments

23C0071: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM I009127 PCB RM J006840-43, 7935-36,K011477-79, MS/MSD </E>
<H>BPR J006840-43, 7935-36, K011477-79, Dup </H> Store in freezer (except GS)

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

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Laboratory Analyst Notes

Extraction Parameter: SVOA Extraction Batch: BLC0009

Total Solids Batch: BLC0085 Work Order(s): 23C0071

Screens: Soil/Sediment/Solid/Other:	Analyst/Date
☒ No Anomalies (standard soil/wet sediment/sand/gravel)= 01-06, 08-10	CR 3/31/23
☒ Standing Water Decanted (Not shared)= 01-06, 08-10	CR 3/31/23
☐ Standing Water Homogenized (Shared samples)=	
☐ Clay/Clumps (Difficult to homogenize)=	
☐ Rocks (%+size)?	
☐ Organics (Leaves/sticks/grass)=	
☐ Oily, obvious fuel/sulfur odors=	
☐ Received in 32oz jar(s)=Homogenized in Pyrex dish=	
☒ Previously Frozen = 01-06, 08-10	CR 3/31/23
☐ Other (Details)=	
Aqueous:	
☐ No Anomalies	
☐ Turbid/Color=	
☐ Particulates(%)=(Note: >5%=Notify Supervisor/Lead)	
☐ Emulsions (%)=	
☐ Oily, obvious fuel/sulfur odors=	
☐ Other (Details)=	
☐ Received in 1.0L Bottle(s)=No Bottle Rinse=	
☐ Other Notes/Comments= (Note problems, concerns, corrective actions).	
☒ Share Samples (Y) / N 01-06, 08-10	CR 3/31/23
☒ Multiple Jars Y / (N)	CR 3/31/23
☐ Sample Pre-Screens indicate analyte activity=	
☐ Sample weights/volumes reduced based on Pre-Screen=	

BLC0043

Date:2023-03-09,12:52:13 PM
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Method File:E:\GPC2_InHouse.mtd

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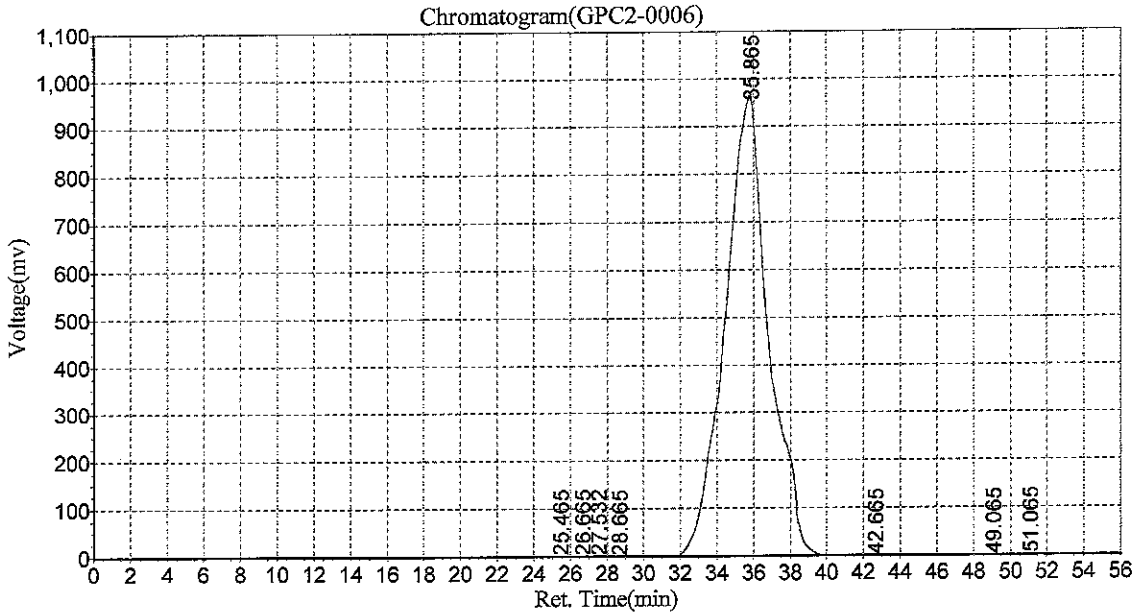
Date/Time2023-03-09,12:52:14 PM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		25.465	2156.607	100313.992	0.0598
2		26.665	2412.168	188025.063	0.1120
3		27.532	2525.685	125483.969	0.0748
4		28.665	2586.438	143241.906	0.0853
5		35.865	977540.813	166845632.000	99.3952
6		42.665	2297.881	127069.398	0.0757
7		49.065	1444.892	135929.547	0.0810
8		51.065	1911.676	195055.922	0.1162
Total			992876.160	167860751.797	100.000

Ingredient Table

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

BLC0043

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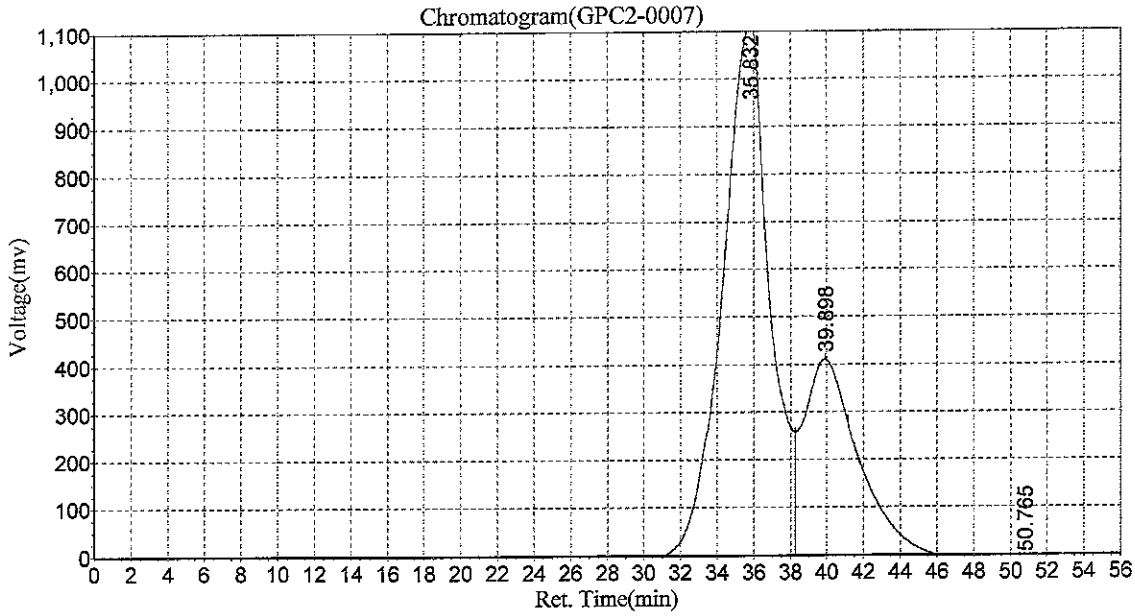
Date/Time2023-03-09,1:49:58 PM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		35.832	1129210.000	201869872.000	69.0259
2		39.898	421316.531	90458768.000	30.9308
3		50.765	1706.715	126501.445	0.0433
Total			1552233.246	292455141.445	100.000

Ingredient Table

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

BLC0043

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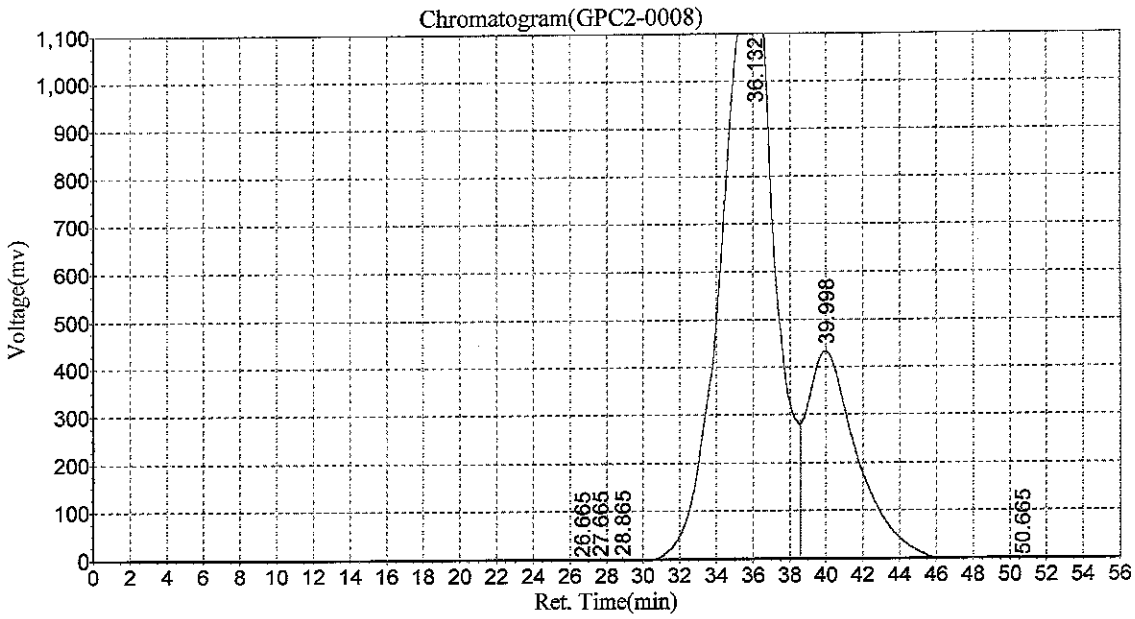

Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		26.665	2505.747	122681.117	0.0356
2		27.665	3544.728	193231.031	0.0561
3		28.865	4901.905	420066.000	0.1219
4		36.132	1239792.375	255268224.000	74.0801
5		39.998	444534.500	88379568.000	25.6482
6		50.665	2037.291	200271.063	0.0581
Total			1697316.546	344584041.211	100.000

Ingredient Table

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

BLC0043

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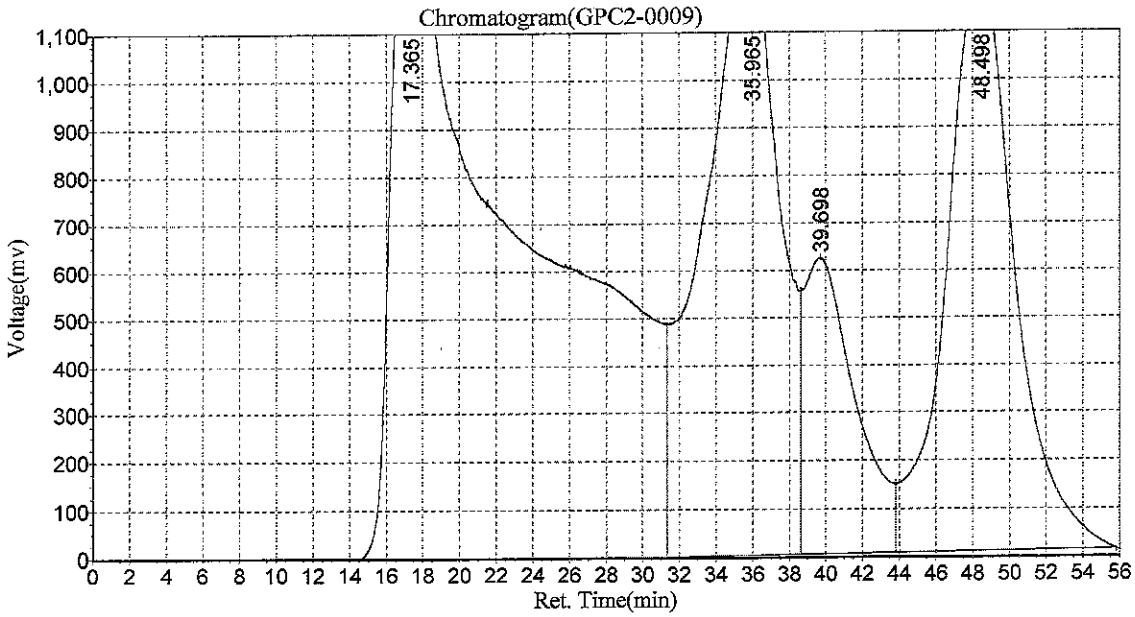

Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		17.365	1260273.875	702105472.000	46.8271
2		35.965	1243077.375	368032352.000	24.5460
3		39.698	617607.688	120657696.000	8.0473
4		48.498	1167432.125	308562208.000	20.5796
Total			4288391.063	1499357728.000	100.000

Ingredient Table

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

BLC0043

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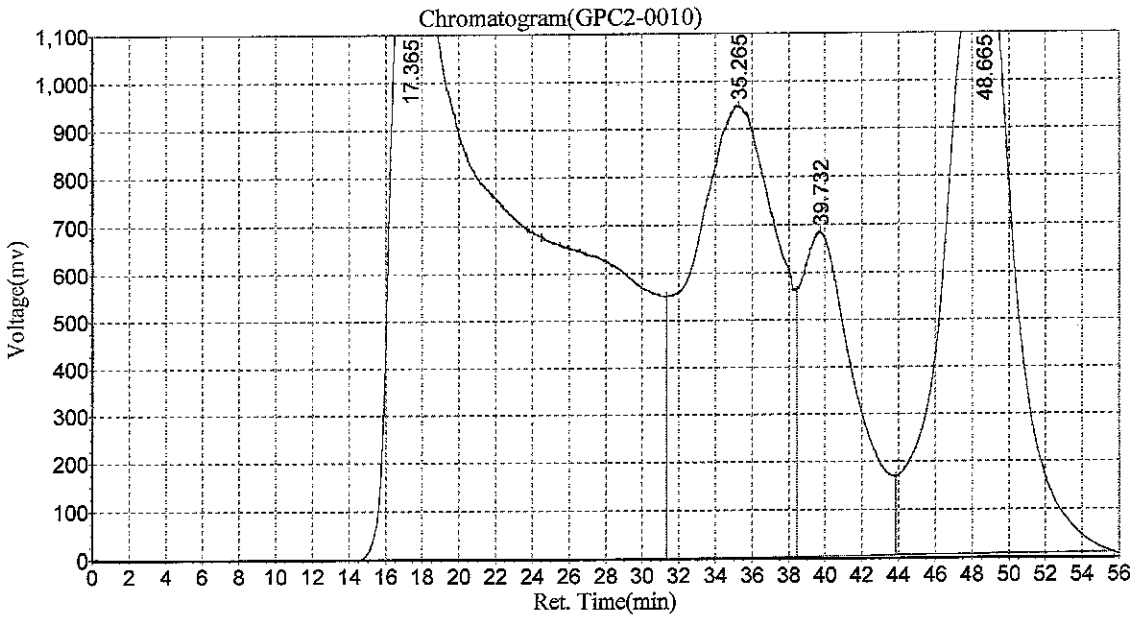

Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		17.365	1259001.250	734054528.000	48.2926
2		35.265	944885.313	315952768.000	20.7862
3		39.732	679486.125	139264976.000	9.1621
4		48.665	1235843.625	330740960.000	21.7591
Total			4119216.313	1520013232.000	100.000

Ingredient Table

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

BLC0043

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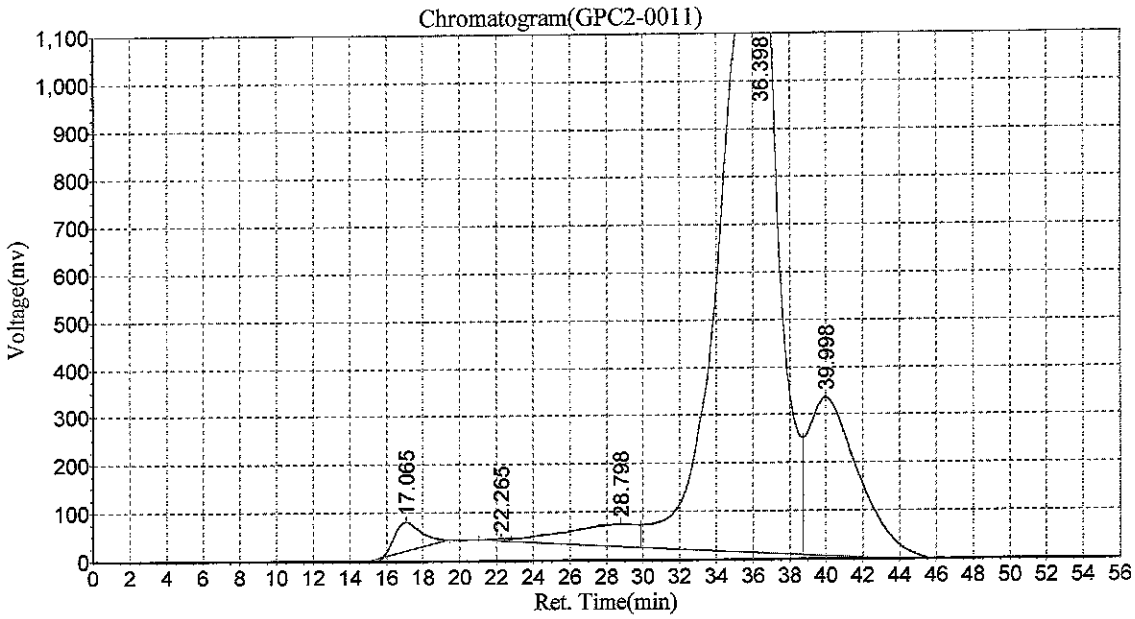

Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		17.065	60439.633	5907978.000	1.6239
2		22.265	6213.450	505256.375	0.1389
3		28.798	48488.629	13046308.000	3.5859
4		36.398	1217197.500	280906208.000	77.2096
5		39.998	330614.781	63457296.000	17.4418
Total			1662953.993	363823046.375	100.000

Ingredient Table

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

BLC0043

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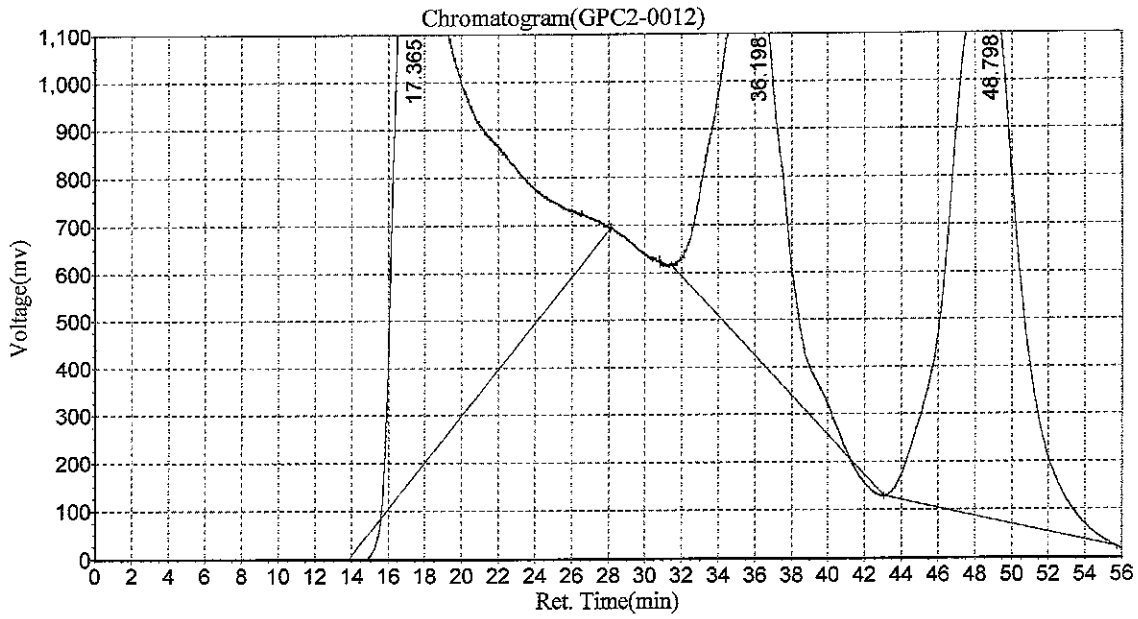

Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		17.365	1080934.375	371072672.000	42.5710
2		36.198	830852.375	199690960.000	22.9094
3		48.798	1154869.625	300892288.000	34.5196
Total			3066656.375	871655920.000	100.000

Ingredient Table

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

BLC0043

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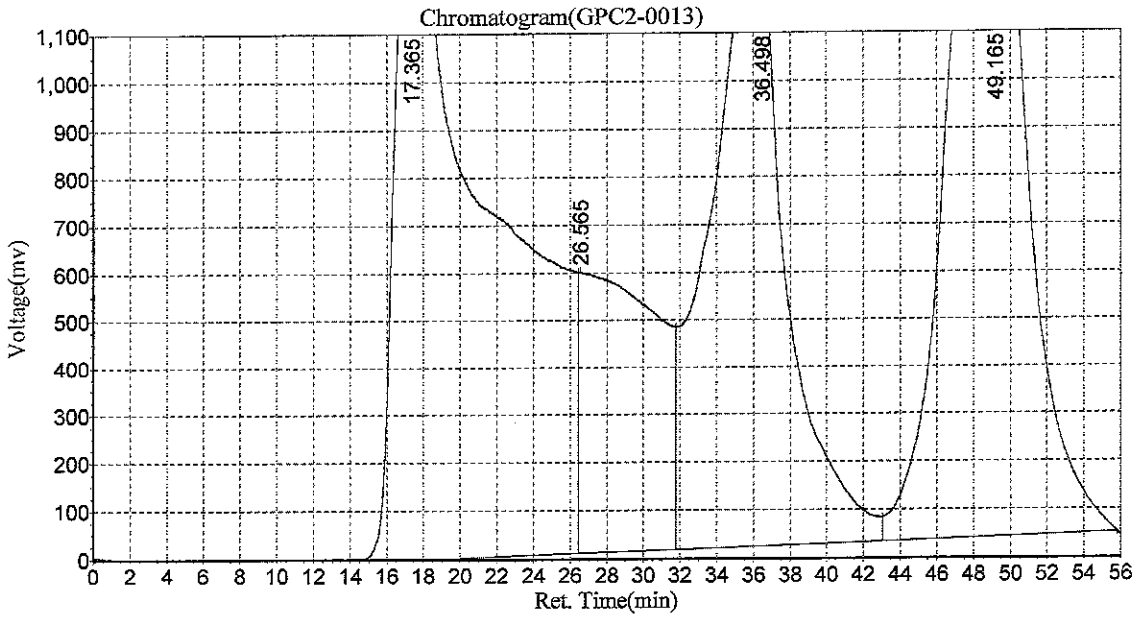

Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		17.365	1253775.125	519730112.000	35.0985
2		26.565	589688.500	170576784.000	11.5194
3		36.498	1221164.875	368649760.000	24.8957
4		49.165	1207726.875	421821216.000	28.4865
Total			4272355.375	1480777872.000	100.000

Ingredient Table

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

BLC0043

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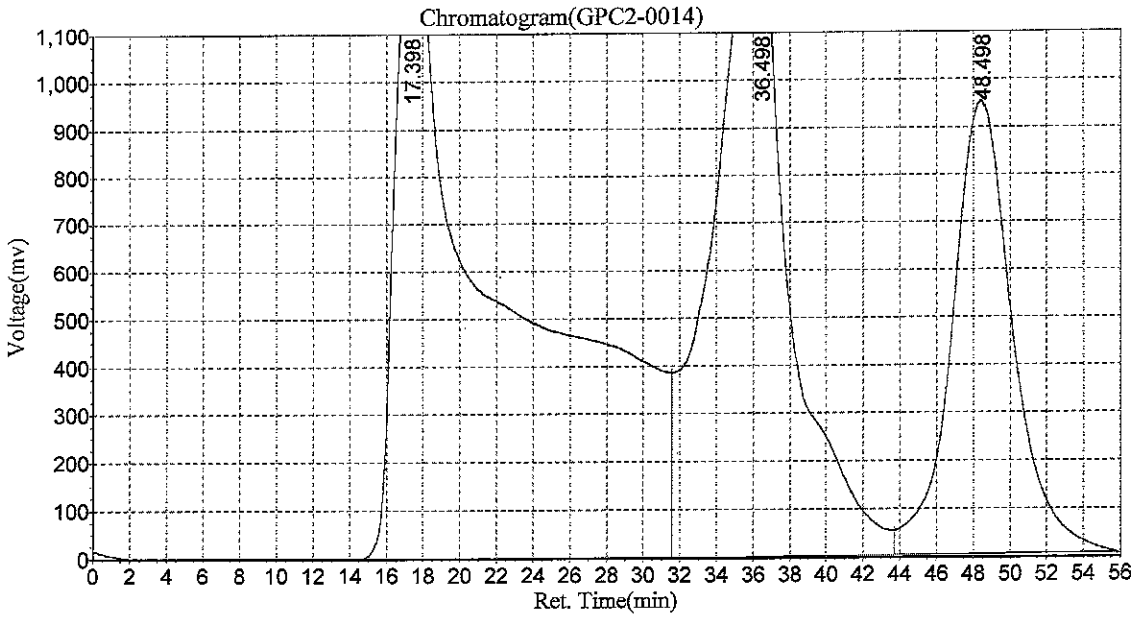

Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		17.398	1257495.500	563697088.000	48.2812
2		36.498	1245579.625	387932480.000	33.2268
3		48.498	946933.563	215900464.000	18.4921
Total			3450008.688	1167530032.000	100.000

Ingredient Table

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

BLC0043

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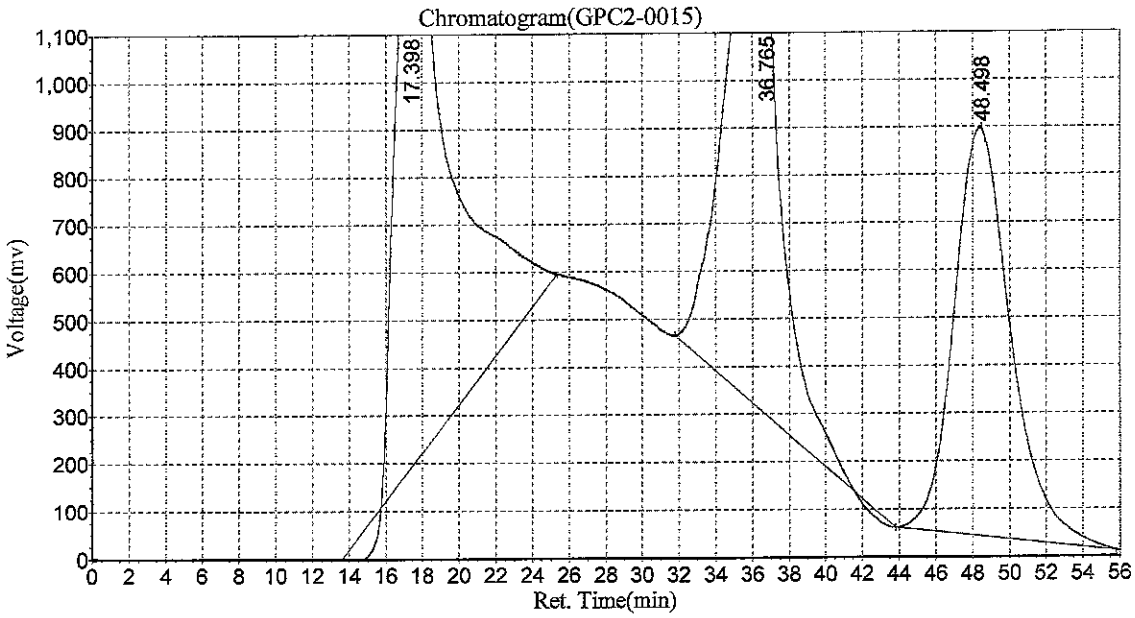

Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		17.398	1062027.625	249605472.000	38.5832
2		36.765	950242.375	214498864.000	33.1565
3		48.498	854618.375	182823520.000	28.2603
Total			2866888.375	646927856.000	100.000

Ingredient Table

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

BLC0043

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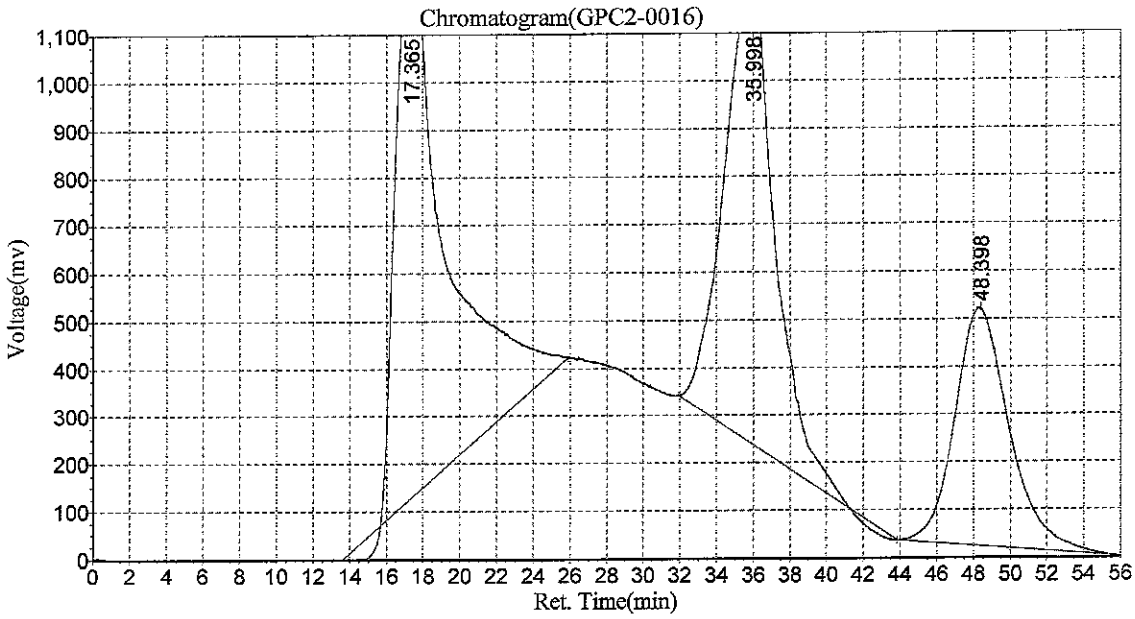

Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		17.365	1124669.375	221464576.000	43.6002
2		35.998	968199.250	184218864.000	36.2676
3		48.398	496592.656	102260032.000	20.1322
Total			2589461.281	507943472.000	100.000

Ingredient Table

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

BLC0043

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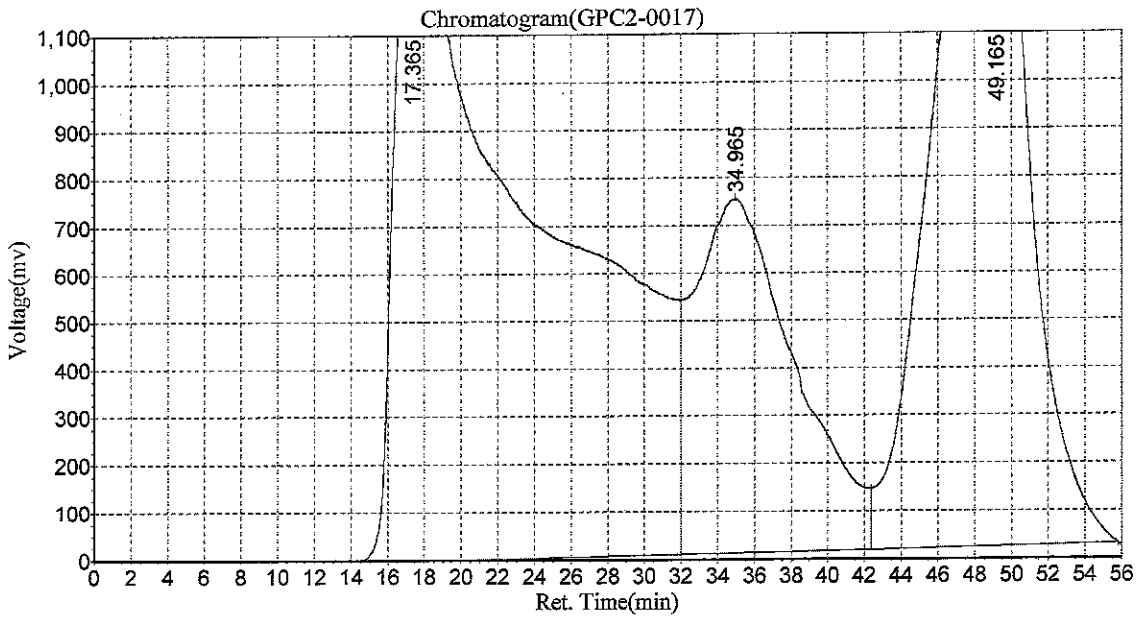


Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		17.365	1255339.250	769395840.000	49.1353
2		34.965	741139.563	282128800.000	18.0174
3		49.165	1226757.875	514346624.000	32.8473
Total			3223236.688	1565871264.000	100.000

Ingredient Table

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

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BATCH SUMMARY

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Cleanup Batch:	CLC0095	Cleanup Type:	GPC
Cleanup Method:	EPA 3640A GPC Cleanup 1:1	Analysis:	EPA 8270E

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW23-SS1037	23C0071-02	NT1003212311.D	03/10/2023	
LDW23-SS1054	23C0071-06	NT1003212317.D	03/10/2023	
LDW23-SS1044	23C0071-04	NT1003212313.D	03/10/2023	
LDW23-SS1036	23C0071-03	NT1003212312.D	03/10/2023	
LDW23-SS1048	23C0071-05	NT1003212314.D	03/10/2023	
Matrix Spike Dup	BLC0109-MSD1	NT1003212316.D	03/10/2023	
Matrix Spike	BLC0109-MS1	NT1003212315.D	03/10/2023	
LCS Dup	BLC0109-BSD1	NT1003212308.D	03/10/2023	
LCS	BLC0109-BS1	NT1003212307.D	03/10/2023	
Blank	BLC0109-BLK1	NT1003212306.D	03/10/2023	
LDW23-SS1000	23C0071-01	NT1003212310.D	03/10/2023	
Reference	BLC0109-SRM1	NT1003212309.D	03/10/2023	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BENCH SHEET

CLC0095

Matrix: Solid **Cleanup using: Organics - EPA 3640A GPC Cleanup 1:1** **Check Standard: CLB0132-GPC2** **Printed: 3/10/2023 4:11:41PM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
23C0071-01	A	LDW23-SS1000	A 02	1	1	SVOC (20ug/kg solid or 0.2ug/L low H2	3/10/2023	LMJ	
23C0071-01	A	LDW23-SS1000	A 04	1	1	8270E-SIM Dual Scan SVOC	3/10/2023	LMJ	
23C0071-02	A	LDW23-SS1037	A 02	1	1	SVOC (20ug/kg solid or 0.2ug/L low H2	3/10/2023	LMJ	
23C0071-02	A	LDW23-SS1037	A 04	1	1	8270E-SIM Dual Scan SVOC	3/10/2023	LMJ	
23C0071-03	A	LDW23-SS1036	A 04	1	1	8270E-SIM Dual Scan SVOC	3/10/2023	LMJ	
23C0071-03	A	LDW23-SS1036	A 02	1	1	SVOC (20ug/kg solid or 0.2ug/L low H2	3/10/2023	LMJ	
23C0071-04	A	LDW23-SS1044	A 04	1	1	8270E-SIM Dual Scan SVOC	3/10/2023	LMJ	
23C0071-04	A	LDW23-SS1044	A 02	1	1	SVOC (20ug/kg solid or 0.2ug/L low H2	3/10/2023	LMJ	
23C0071-05	A	LDW23-SS1048	A 02	1	1	SVOC (20ug/kg solid or 0.2ug/L low H2	3/10/2023	LMJ	
23C0071-05	A	LDW23-SS1048	A 04	1	1	8270E-SIM Dual Scan SVOC	3/10/2023	LMJ	
23C0071-06	A	LDW23-SS1054	A 04	1	1	8270E-SIM Dual Scan SVOC	3/10/2023	LMJ	
23C0071-06	A	LDW23-SS1054	A 02	1	1	SVOC (20ug/kg solid or 0.2ug/L low H2	3/10/2023	LMJ	
BLC0109-BLK1	-	Blank	-	1	1	-	3/10/2023	LMJ	
BLC0109-BLK2	-	Blank	-	1	1	-	3/10/2023	LMJ	
BLC0109-BS1	-	LCS	-	1	1	-	3/10/2023	LMJ	
BLC0109-BS2	-	LCS	-	1	1	-	3/10/2023	LMJ	
BLC0109-BSD1	-	LCS Dup	-	1	1	-	3/10/2023	LMJ	
BLC0109-BSD2	-	LCS Dup	-	1	1	-	3/10/2023	LMJ	
BLC0109-MS1	-	Matrix Spike	-	1	1	-	3/10/2023	LMJ	
BLC0109-MS2	-	Matrix Spike	-	1	1	-	3/10/2023	LMJ	
BLC0109-MSD1	-	Matrix Spike Dup	-	1	1	-	3/10/2023	LMJ	
BLC0109-MSD2	-	Matrix Spike Dup	-	1	1	-	3/10/2023	LMJ	

CLEANUP BENCH SHEET

CLC0095

Matrix: Solid **Cleanup using: Organics - EPA 3640A GPC Cleanup 1:1** **Check Standard: CLB0132-GPC2** **Printed: 3/10/2023 4:11:41PM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
BLC0109-SRM1	-	Reference	-	1	1	-	3/10/2023	LMJ	
BLC0109-SRM2	-	Reference	-	1	1	-	3/10/2023	LMJ	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I

METHOD BLANK DATA SHEET

EPA 8270E

Blank

Laboratory:	Analytical Resources, LLC			SDG:	23C0071
Client:	Anchor QEA, LLC			Project:	AOC5 MR Phase 1
Matrix:	Solid	Laboratory ID:	BLC0109-BLK1	File ID:	NT1003212306.D
Sampled:	N/A	Prepared:	03/07/23 10:21	Analyzed:	03/21/23 20:21
Solids:		Preparation:	EPA 3546 (Microwave)	Initial/Final:	10 g / 1 mL
Batch:	BLC0109	Sequence:	SLC0451	Calibration:	GC00046
Instrument:	NT10	Column:	ZB-5MSi	Cleanups:	GPC

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg wet)	Q	DL	RL
108-95-2	Phenol	1	19.6	J	4.4	20.0
106-44-5	4-Methylphenol	1	20.0	U	7.4	20.0
91-20-3	Naphthalene	1	20.0	U	4.2	20.0
91-57-6	2-Methylnaphthalene	1	20.0	U	4.5	20.0
208-96-8	Acenaphthylene	1	20.0	U	6.2	20.0
131-11-3	Dimethylphthalate	1	20.0	U	4.4	20.0
83-32-9	Acenaphthene	1	20.0	U	5.2	20.0
132-64-9	Dibenzofuran	1	20.0	U	14.1	20.0
86-73-7	Fluorene	1	20.0	U	14.6	20.0
85-01-8	Phenanthrene	1	20.0	U	8.7	20.0
120-12-7	Anthracene	1	20.0	U	7.2	20.0
206-44-0	Fluoranthene	1	20.0	U	6.1	20.0
129-00-0	Pyrene	1	20.0	U	5.7	20.0
85-68-7	Butylbenzylphthalate	1	20.0	U	9.4	20.0
56-55-3	Benzo(a)anthracene	1	20.0	U	6.0	20.0
218-01-9	Chrysene	1	20.0	U	6.1	20.0
117-81-7	bis(2-Ethylhexyl)phthalate	1	50.0	U	5.5	50.0
	Benzofluoranthenes, Total	1	40.0	U	10.0	40.0
50-32-8	Benzo(a)pyrene	1	20.0	U	4.2	20.0
193-39-5	Indeno(1,2,3-cd)pyrene	1	20.0	U	14.7	20.0
53-70-3	Dibenzo(a,h)anthracene	1	20.0	U	17.2	20.0
191-24-2	Benzo(g,h,i)perylene	1	20.0	U	13.6	20.0

SURROGATES	ADDED: (ug/kg wet)	FOUND: (ug/kg wet)	% REC	QC LIMITS	Q
2-Fluorophenol	750.00	407	54.3	27 - 120	
Phenol-d5	750.00	439	58.6	29 - 120	
2-Chlorophenol-d4	750.00	487	64.9	31 - 120	
1,2-Dichlorobenzene-d4	500.00	340	68.0	32 - 120	
Nitrobenzene-d5	500.00	349	69.8	30 - 120	
2-Fluorobiphenyl	500.00	360	72.0	35 - 120	
2,4,6-Tribromophenol	750.00	453	60.3	24 - 134	
p-Terphenyl-d14	500.00	387	77.4	37 - 120	

Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212306.D

Date : 21-MAR-2023 20:21

Client ID:

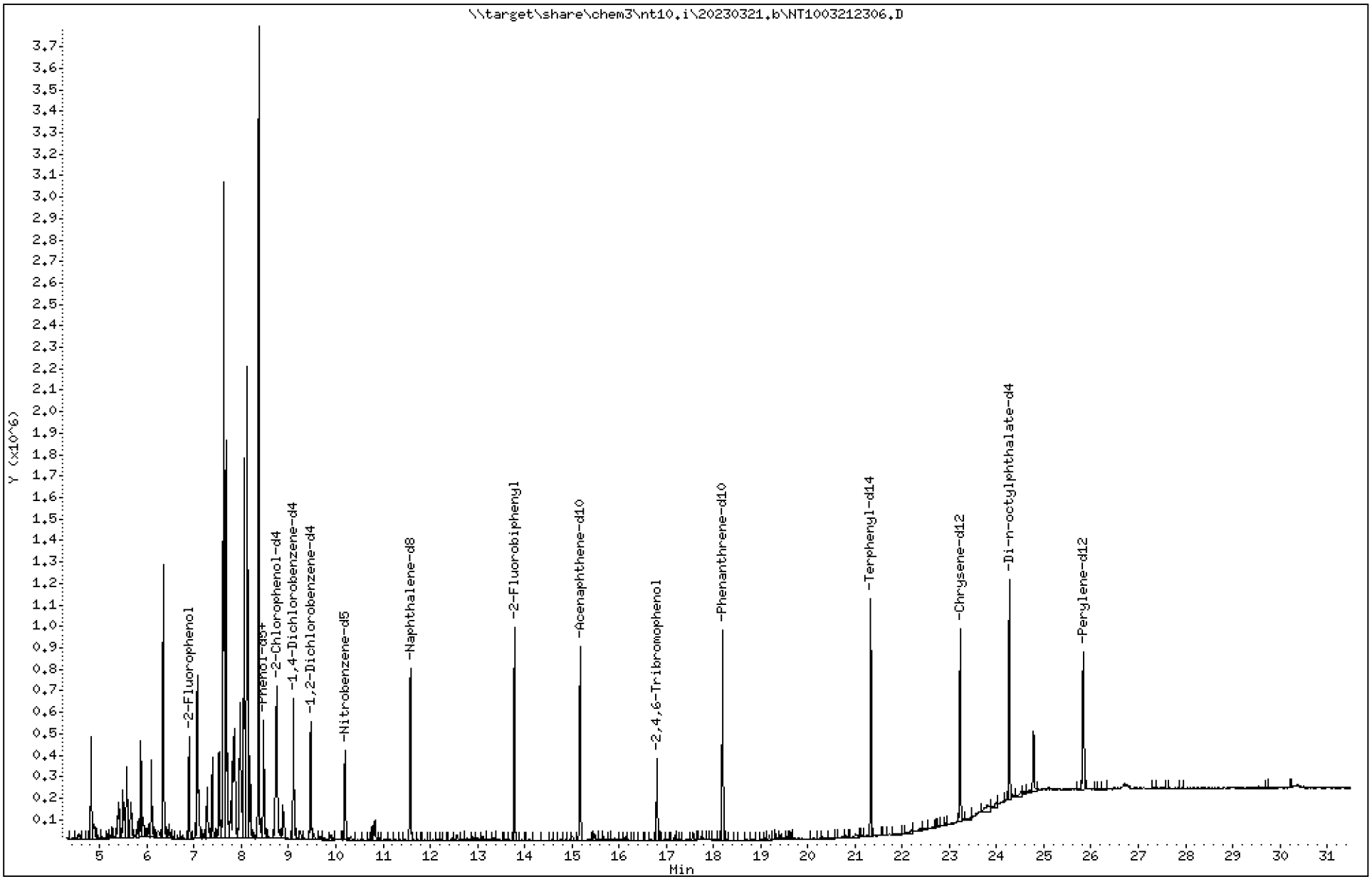
Instrument: nt10.i

Sample Info: BLC0109-BLK1

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



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Date : 21-MAR-2023 20:21

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BLK1

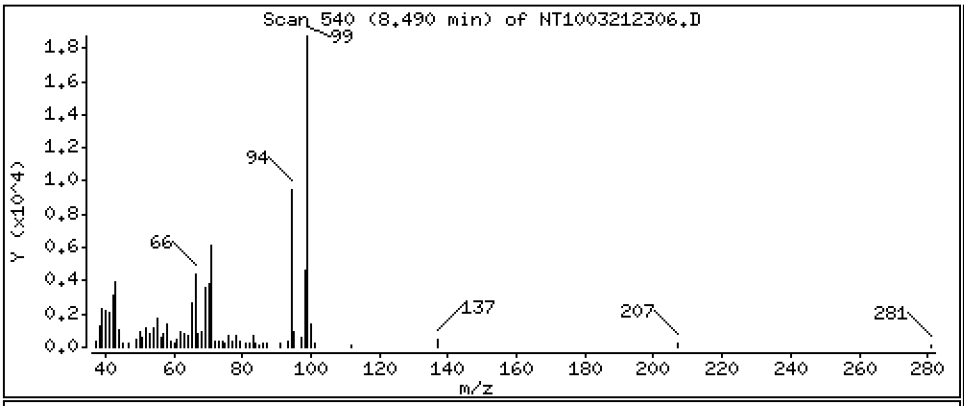
Operator: VTS

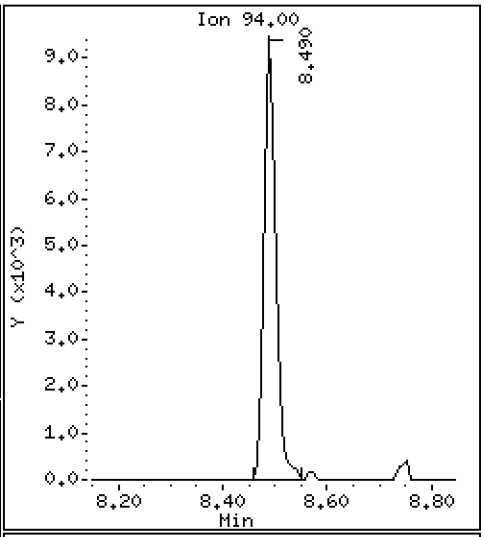
Column phase: ZB-5msi

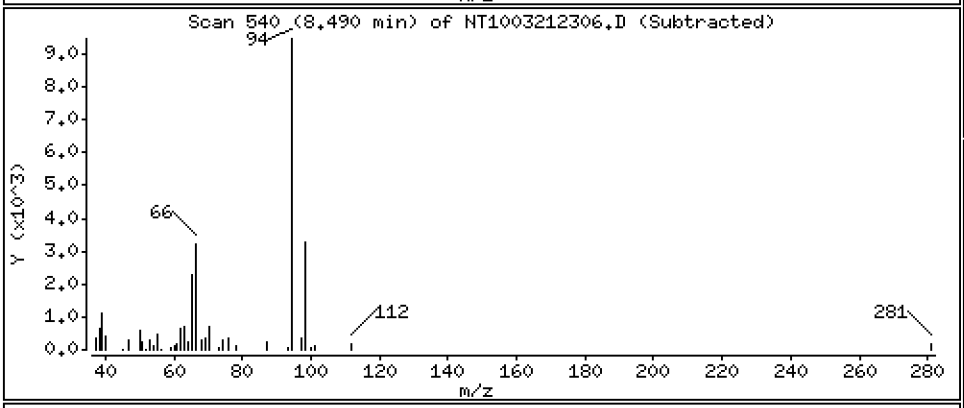
Column diameter: 0.25

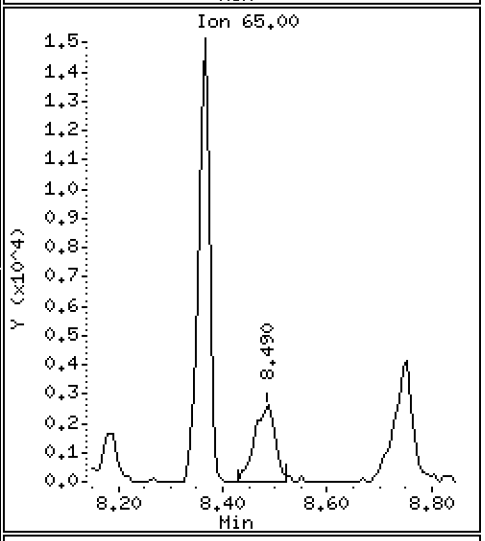
3 Phenol

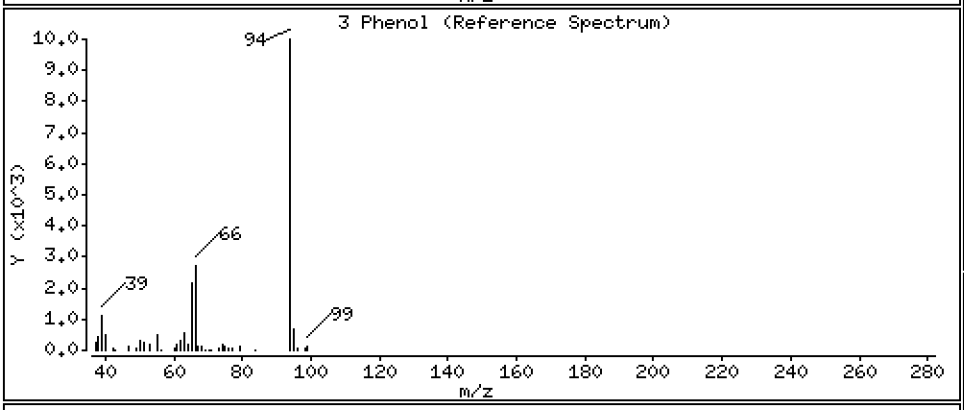
Concentration: 0.1963 ug/mL

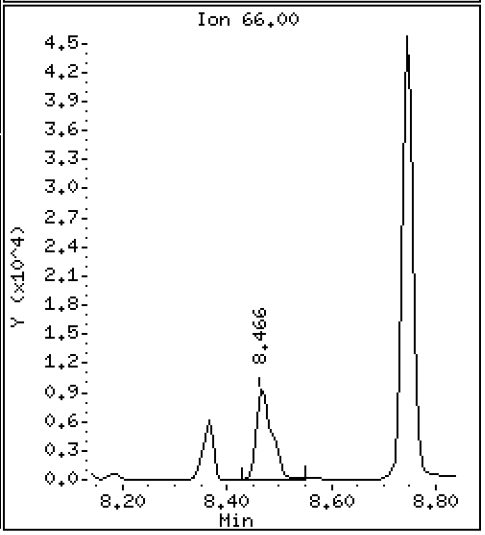


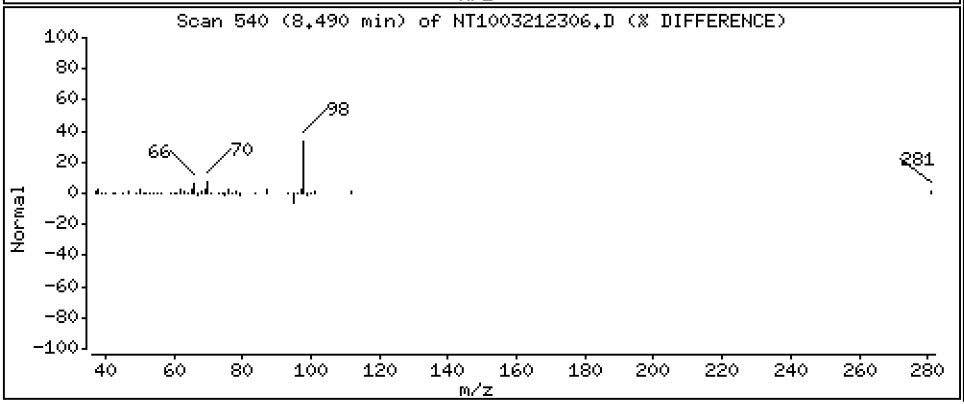












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Date : 21-MAR-2023 20:21

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BLK1

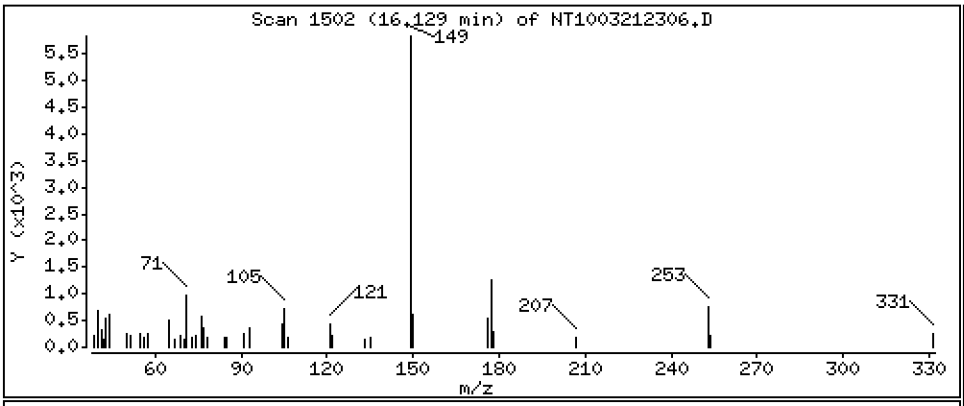
Operator: VTS

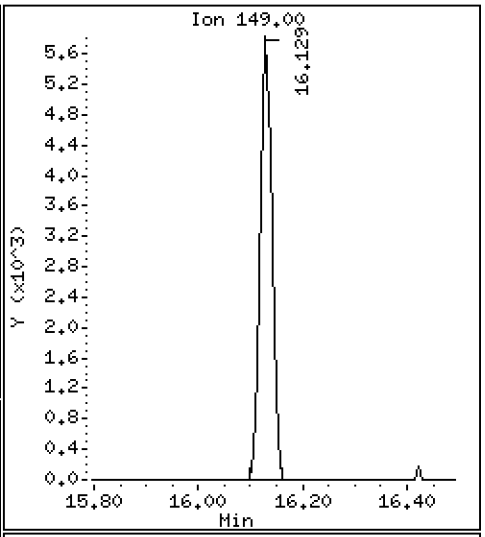
Column phase: ZB-5msi

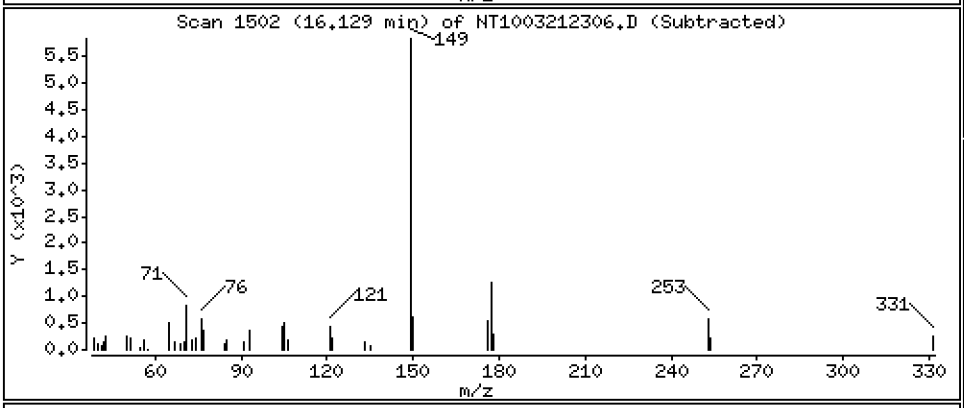
Column diameter: 0.25

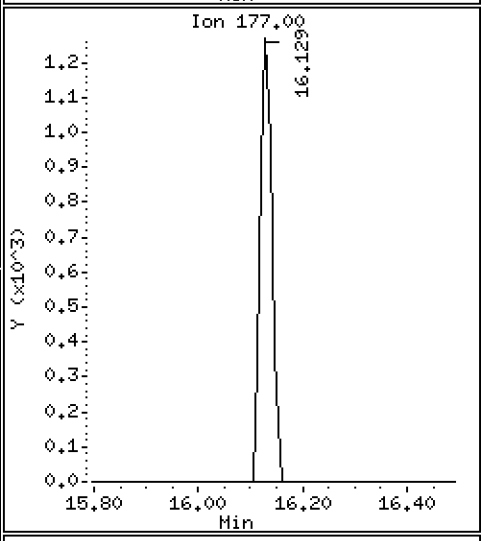
50 Diethylphthalate

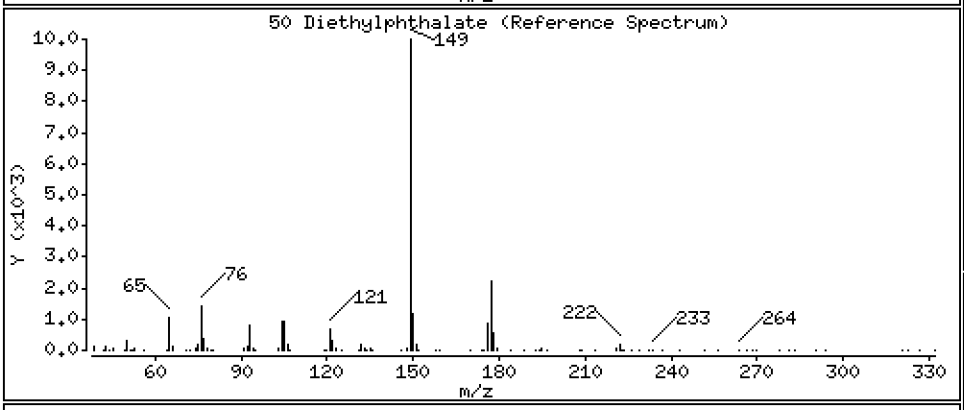
Concentration: 0.07623 ug/mL

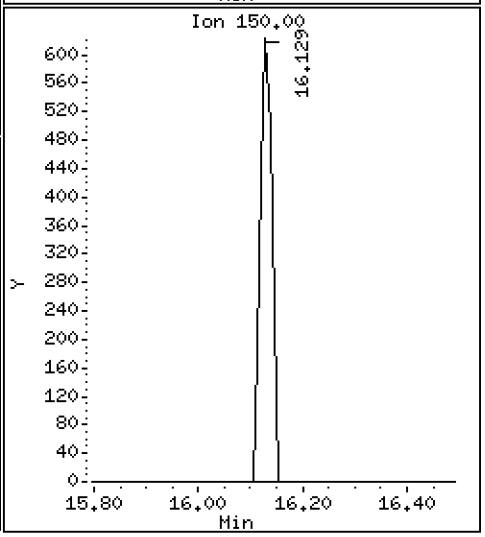


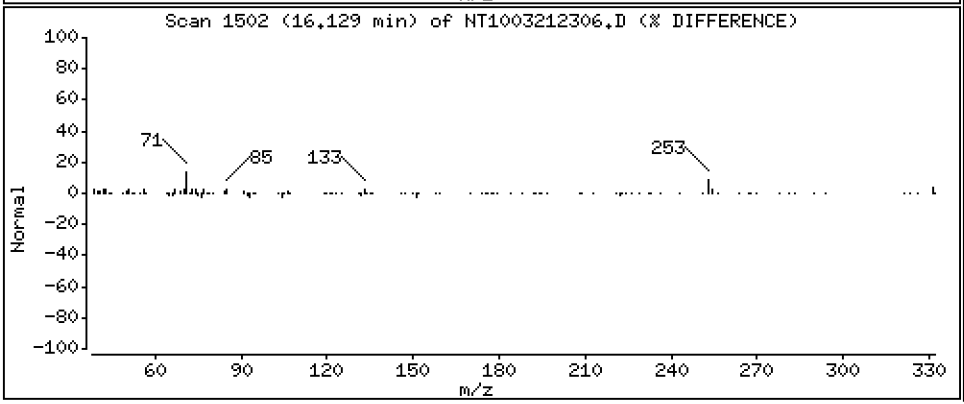












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Date : 21-MAR-2023 20:21

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BLK1

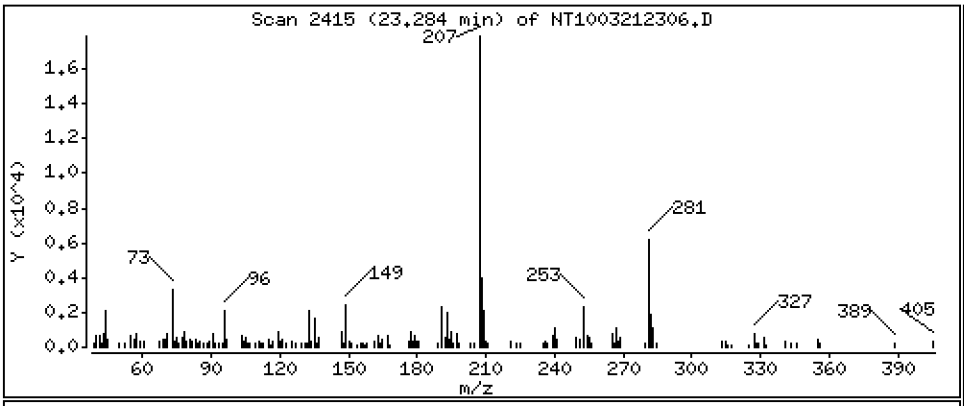
Operator: VTS

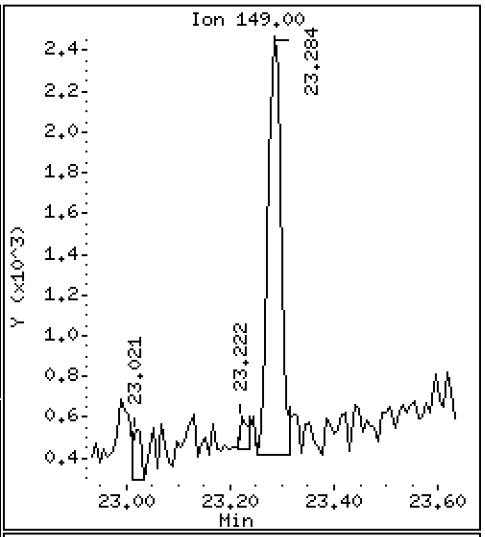
Column phase: ZB-5msi

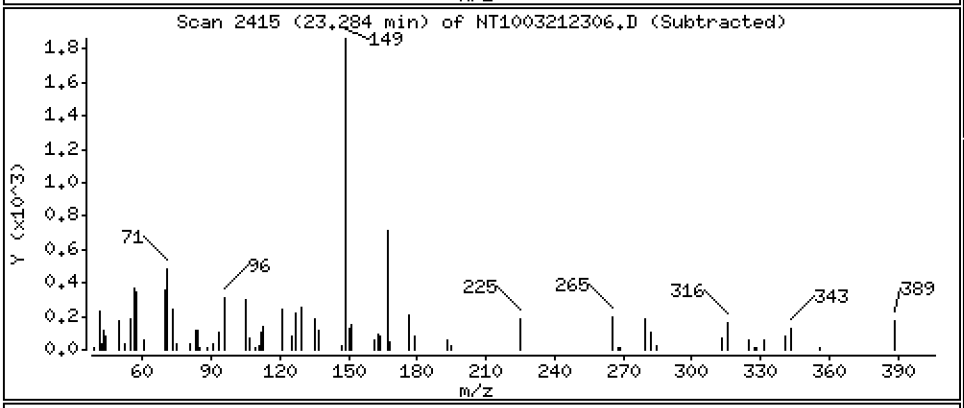
Column diameter: 0.25

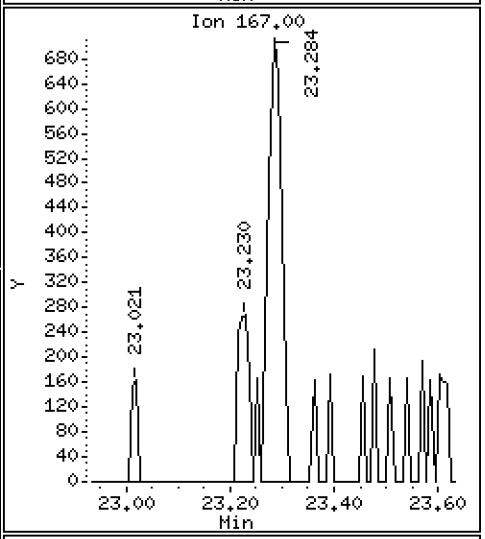
72 bis(2-Ethylhexyl)phthalate

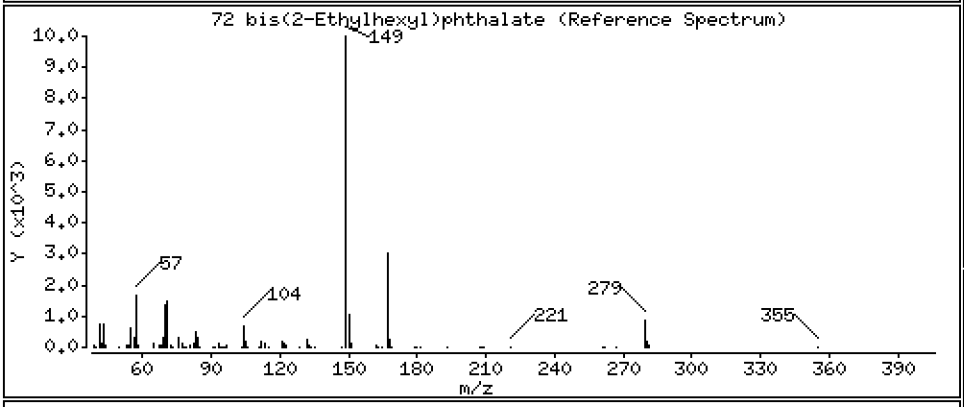
Concentration: 0.03044 ug/mL

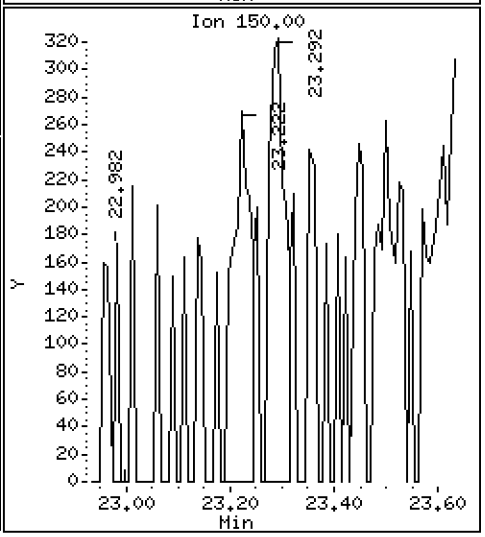


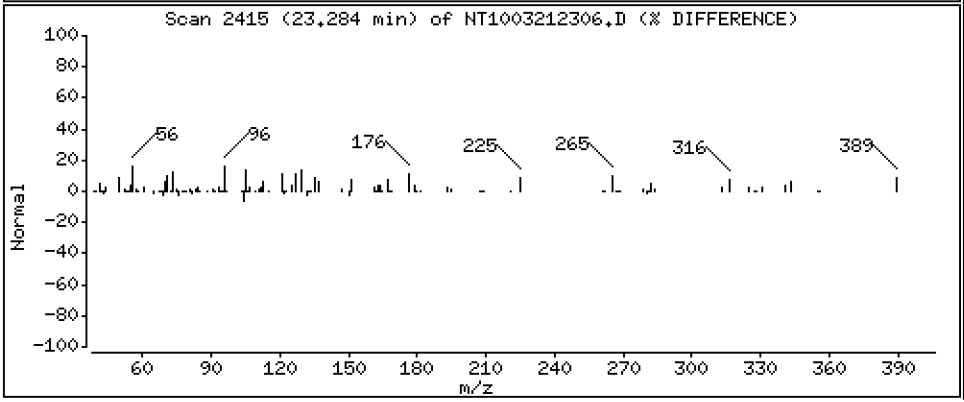












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230321.b\NT1003212306.D
Lab Smp Id: BLC0109-BLK1
Inj Date : 21-MAR-2023 20:21
Operator : VTS Inst ID: nt10.i
Smp Info : BLC0109-BLK1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230321.b\ABN.m
Meth Date : 29-Mar-2023 06:54 van Quant Type: ISTD
Cal Date : 16-MAR-2023 00:22 Cal File: NT10031508.D
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)	
$	1 2-Fluorophenol	112	6.890	6.889	(0.728)	220575	4.07210	4.072	
$	2 Phenol-d5	99	8.466	8.473	(0.894)	312212	4.39367	4.394	
	3 Phenol	94	8.489	8.497	(0.897)	14495	0.19630	0.1963	
$	5 2-Chlorophenol-d4	132	8.744	8.744	(0.924)	295409	4.86832	4.868	
	4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.						
	6 2-Chlorophenol	128	Compound Not Detected.						
	7 1,3-Dichlorobenzene	146	Compound Not Detected.						
*	8 1,4-Dichlorobenzene-d4	152	9.108	9.108	(1.000)	179118	4.00000		(H)
	9 1,4-Dichlorobenzene	146	Compound Not Detected.						
$	10 1,2-Dichlorobenzene-d4	152	9.465	9.465	(1.000)	148138	3.39942	3.399	
	12 1,2-Dichlorobenzene	146	Compound Not Detected.						
	11 Benzyl alcohol	108	Compound Not Detected.						
	14 2,2'-oxybis(1-Chloropropane)	121	Compound Not Detected.						
	13 2-Methylphenol	108	Compound Not Detected.						
	17 Hexachloroethane	117	Compound Not Detected.						
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.						
	15 4-Methylphenol	108	Compound Not Detected.						
$	18 Nitrobenzene-d5	82	10.194	10.202	(0.880)	223458	3.49012	3.490	
	19 Nitrobenzene	77	Compound Not Detected.						
	20 Isophorone	82	Compound Not Detected.						
	21 2-Nitrophenol	139	Compound Not Detected.						
	22 2,4-Dimethylphenol	107	Compound Not Detected.						
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.						
	24 Benzoic acid	105	Compound Not Detected.						
	25 2,4-Dichlorophenol	162	Compound Not Detected.						
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.						
*	27 Naphthalene-d8	136	11.580	11.587	(1.000)	634321	4.00000		
	28 Naphthalene	128	Compound Not Detected.						
	29 4-Chloroaniline	127	Compound Not Detected.						
	30 Hexachlorobutadiene	225	Compound Not Detected.						
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.						
	32 2-Methylnaphthalene	142	Compound Not Detected.						
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.						

		QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
	34 2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35 2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36 2-Fluorobiphenyl	172	13.785	13.800	(0.909)	496885	3.59953	3.600
	37 2-Chloronaphthalene	162	Compound Not Detected.					
	38 2-Nitroaniline	65	Compound Not Detected.					
	39 Dimethylphthalate	163	Compound Not Detected.					
	40 Acenaphthylene	152	Compound Not Detected.					
	41 2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42 Acenaphthene-d10	164	15.170	15.185	(1.000)	348967	4.00000	
	43 3-Nitroaniline	138	Compound Not Detected.					
	44 Acenaphthene	153	Compound Not Detected.					
	45 2,4-Dinitrophenol	184	Compound Not Detected.					
	46 Dibenzofuran	168	Compound Not Detected.					
	47 4-Nitrophenol	109	Compound Not Detected.					
	48 2,4-Dinitrotoluene	165	Compound Not Detected.					
	50 Diethylphthalate	149	16.129	16.144	(1.063)	8479	0.07623	0.07623
	49 Fluorene	166	Compound Not Detected.					
	51 4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52 4-Nitroaniline	138	Compound Not Detected.					
	53 4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54 N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55 2,4,6-Tribromophenol	330	16.800	16.815	(1.107)	73862	4.52504	4.525
	56 4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57 Hexachlorobenzene	284	Compound Not Detected.					
	58 Pentachlorophenol	266	Compound Not Detected.					
*	59 Phenanthrene-d10	188	18.191	18.206	(1.000)	629651	4.00000	
	60 Phenanthrene	178	Compound Not Detected.					
	61 Anthracene	178	Compound Not Detected.					
	62 Carbazole	167	Compound Not Detected.					
	63 Di-n-butylphthalate	149	Compound Not Detected.					
	64 Fluoranthene	202	Compound Not Detected.					
	65 Pyrene	202	Compound Not Detected.					
$	66 Terphenyl-d14	244	21.332	21.332	(0.919)	613605	3.86991	3.870
	67 Butylbenzylphthalate	149	Compound Not Detected.					
	68 Benzo(a)anthracene	228	Compound Not Detected.					
*	69 Chrysene-d12	240	23.221	23.229	(1.000)	512223	4.00000	
	70 3,3'-Dichlorobenzidine	252	Compound Not Detected.					
	71 Chrysene	228	Compound Not Detected.					
	72 bis(2-Ethylhexyl)phthalate	149	23.283	23.283	(0.959)	3408	0.03044	0.03044
*	134 Di-n-octylphthalate-d4	153	24.267	24.266	(1.000)	765553	4.00000	
	73 Di-n-octylphthalate	149	Compound Not Detected.					
	74 Benzo(b)fluoranthene	252	Compound Not Detected.					
	75 Benzo(k)fluoranthene	252	Compound Not Detected.					
	76 Benzo(a)pyrene	252	Compound Not Detected.					
*	77 Perylene-d12	264	25.830	25.830	(1.000)	538678	4.00000	
	78 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
	79 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
	80 Benzo(g,h,i)perylene	276	Compound Not Detected.					
	90 N-Nitrosodimethylamine	74	Compound Not Detected.					
	91 Aniline	93	Compound Not Detected.					
	93 Benzidine	184	Compound Not Detected.					
	103 Pyridine	79	Compound Not Detected.					
	105 1-methylnaphthalene	142	Compound Not Detected.					
	111 Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

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

QC Flag Legend

H - Operator selected an alternate compound hit.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1003212306.D
Lab Smp Id: BLC0109-BLK1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230321.b\ABN.m
Misc Info:

Calibration Date: 21-MAR-2023
Calibration Time: 17:46
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	138414	69207	276828	179118	29.41
27 Naphthalene-d8	511348	255674	1022696	634321	24.05
42 Acenaphthene-d10	293241	146621	586482	348967	19.00
59 Phenanthrene-d10	535484	267742	1070968	629651	17.59
69 Chrysene-d12	464733	232367	929466	512223	10.22
134 Di-n-octylphthala	716354	358177	1432708	765553	6.87
77 Perylene-d12	509704	254852	1019408	538678	5.68

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.11	8.61	9.61	9.11	0.00
27 Naphthalene-d8	11.59	11.09	12.09	11.58	-0.06
42 Acenaphthene-d10	15.19	14.69	15.69	15.17	-0.10
59 Phenanthrene-d10	18.21	17.71	18.71	18.19	-0.08
69 Chrysene-d12	23.23	22.73	23.73	23.22	-0.03
134 Di-n-octylphthala	24.27	23.77	24.77	24.27	0.00
77 Perylene-d12	25.83	25.33	26.33	25.83	0.00

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

REVIEW SUMMARY FOR FILE - NT1003212306.D

Lab ID: BLC0109-BLK1
nt10.i, 20230321.b\ABN.m,   21-MAR-2023 20:21

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

RRT check based on Ccal File: NT1003212302.D

On Column LOD for nt10.i, 20230321.b\ABN.m, ICAL.sub = 0.0000

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

LCS / LCS DUPLICATE RECOVERY

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Matrix:	Solid	Analyzed:	03/21/23 21:00
Batch:	BLC0109	Laboratory ID:	BLC0109-BS1
Preparation:	EPA 3546 (Microwave)	Sequence Name:	LCS
Initial/Final:	10 g / 1 mL		

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	Q	LCS % REC. #	QC LIMITS REC.
Phenol	500	348		69.5	34 - 120
4-Methylphenol	500	353		70.6	29 - 120
Naphthalene	500	376		75.1	43 - 120
2-Methylnaphthalene	500	380		76.1	43 - 120
Acenaphthylene	500	352		70.5	42 - 120
Dimethylphthalate	500	445		89.0	43 - 120
Acenaphthene	500	394		78.8	45 - 120
Dibenzofuran	500	400		80.0	43 - 120
Fluorene	500	412		82.5	45 - 120
Phenanthrene	500	419		83.7	49 - 120
Anthracene	500	366		73.2	45 - 120
Fluoranthene	500	411		82.2	53 - 145
Pyrene	500	403		80.6	52 - 134
Butylbenzylphthalate	500	477		95.5	45 - 132
Benzo(a)anthracene	500	428		85.7	49 - 120
Chrysene	500	415		83.0	47 - 120
bis(2-Ethylhexyl)phthalate	500	434		86.8	34 - 130
Benzofluoranthenes, Total	1000	914		91.4	30 - 160
Benzo(a)pyrene	500	426		85.2	42 - 120
Indeno(1,2,3-cd)pyrene	500	434		86.8	42 - 163
Dibenzo(a,h)anthracene	500	445		88.9	30 - 133
Benzo(g,h,i)perylene	500	430		86.0	46 - 148

* Indicates values outside of QC limits

COMPOUND	SPIKE ADDED (ug/kg wet)	LCSD CONCENTRATION (ug/kg wet)	Q	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	500	391		78.2	11.7	30	34 - 120
4-Methylphenol	500	384		76.8	8.47	30	29 - 120
Naphthalene	500	422		84.3	11.5	30	43 - 120
2-Methylnaphthalene	500	426		85.1	11.3	30	43 - 120
Acenaphthylene	500	398		79.6	12.2	30	42 - 120
Dimethylphthalate	500	474		94.8	6.35	30	43 - 120
Acenaphthene	500	434		86.7	9.57	30	45 - 120

* Indicates values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Matrix:	Solid	Analyzed:	03/21/23 21:39
Batch:	BLC0109	Laboratory ID:	BLC0109-BSD1
Preparation:	EPA 3546 (Microwave)	Sequence Name:	LCS Dup
Initial/Final:	10 g / 1 mL		

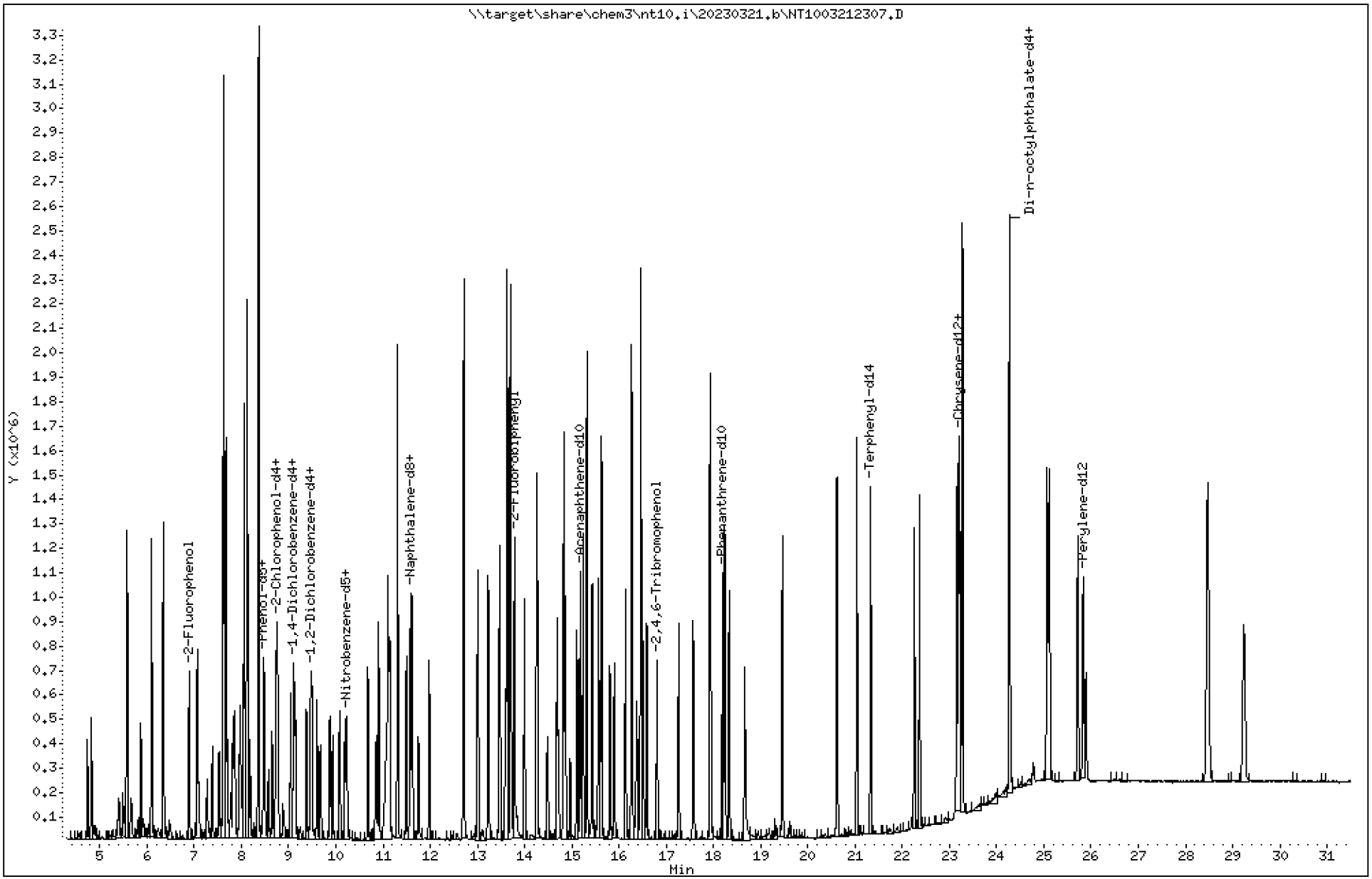
COMPOUND	SPIKE ADDED (ug/kg wet)	LCSD CONCENTRATION (ug/kg wet)	Q	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Dibenzofuran	500	427		85.4	6.46	30	43 - 120
Fluorene	500	446		89.2	7.80	30	45 - 120
Phenanthrene	500	444		88.8	5.82	30	49 - 120
Anthracene	500	402		80.4	9.34	30	45 - 120
Fluoranthene	500	431		86.2	4.76	30	53 - 145
Pyrene	500	427		85.4	5.75	30	52 - 134
Butylbenzylphthalate	500	505		101	5.70	30	45 - 132
Benzo(a)anthracene	500	449		89.8	4.71	30	49 - 120
Chrysene	500	431		86.3	3.84	30	47 - 120
bis(2-Ethylhexyl)phthalate	500	464		92.8	6.68	30	34 - 130
Benzofluoranthenes, Total	1000	973		97.3	6.25	30	30 - 160
Benzo(a)pyrene	500	456		91.3	6.92	30	42 - 120
Indeno(1,2,3-cd)pyrene	500	462		92.4	6.25	30	42 - 163
Dibenzo(a,h)anthracene	500	469		93.7	5.25	30	30 - 133
Benzo(g,h,i)perylene	500	455		91.0	5.61	30	46 - 148

* Indicates values outside of QC limits

Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212307.D
Date : 21-MAR-2023 21:00
Client ID:
Sample Info: BLC0109-BS1

Instrument: nt10.i
Operator: VTS
Column diameter: 0.25

Column phase: ZB-5msi



Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212307.D

Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS1

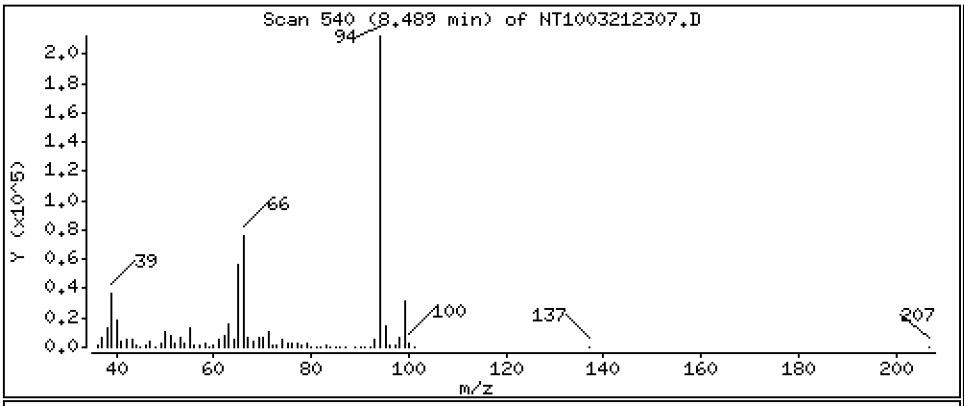
Operator: VTS

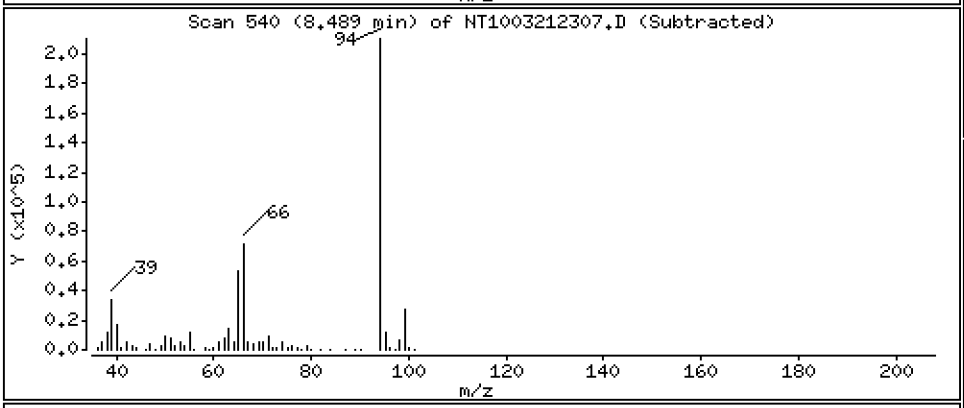
Column phase: ZB-5msi

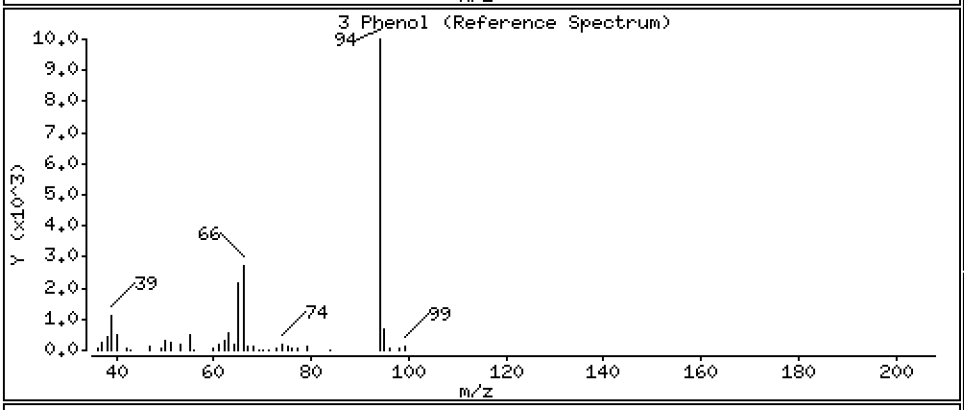
Column diameter: 0.25

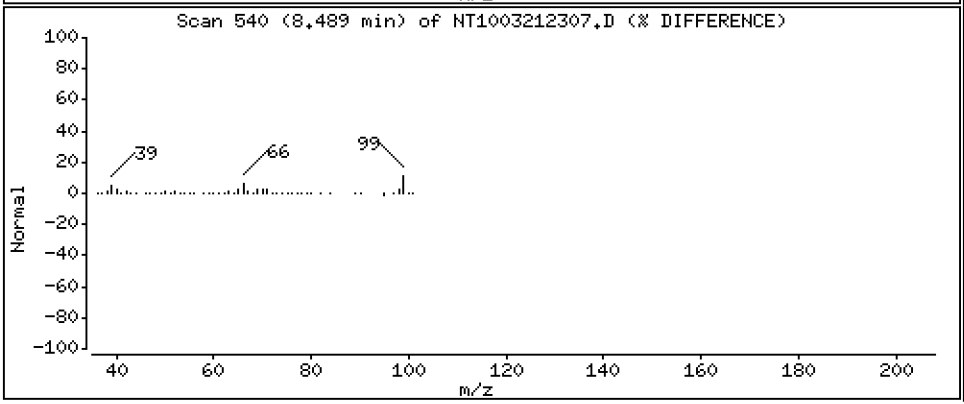
3 Phenol

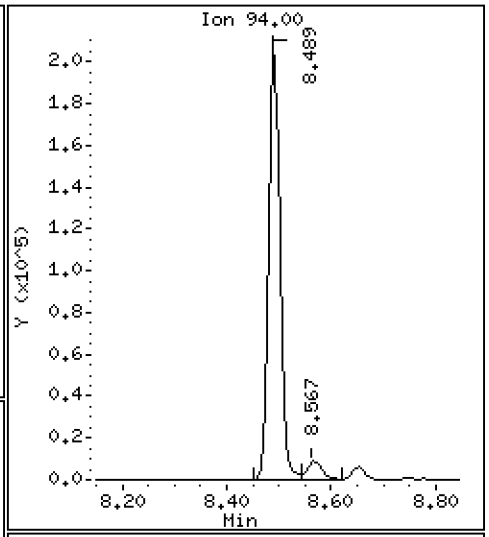
Concentration: 3.476 ug/mL

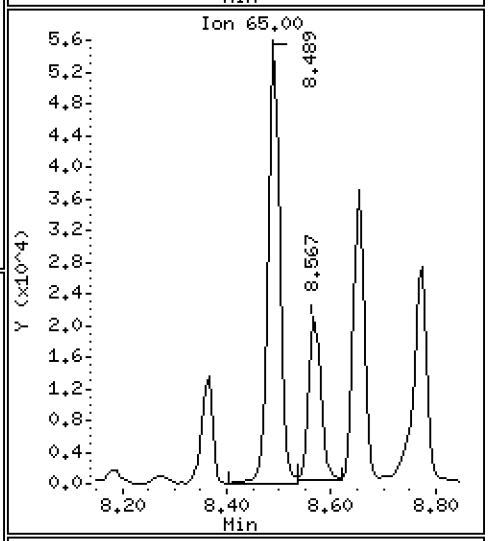


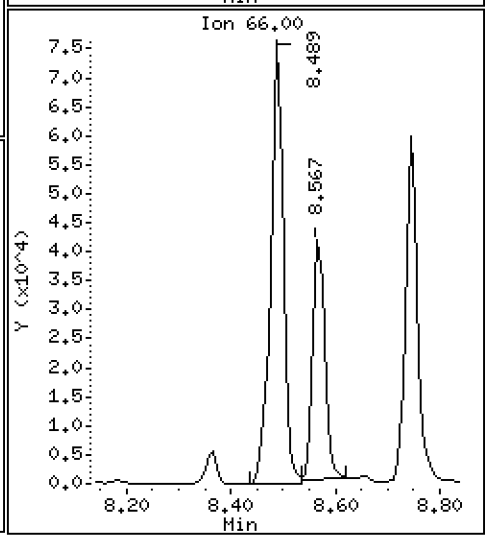












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Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS1

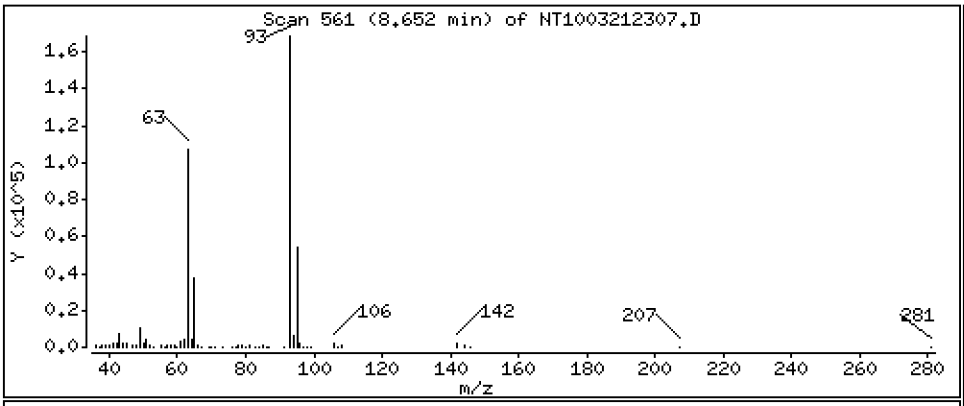
Operator: VTS

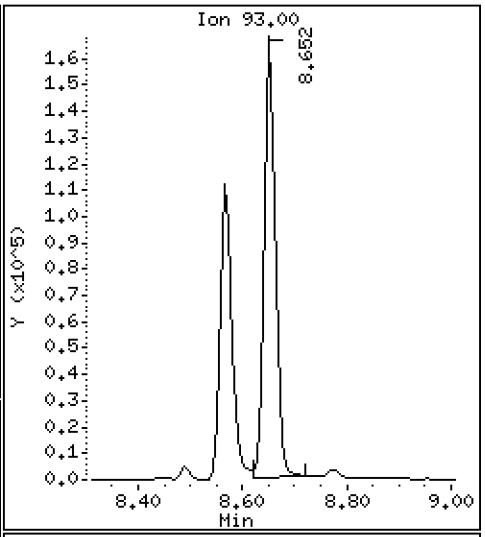
Column phase: ZB-5msi

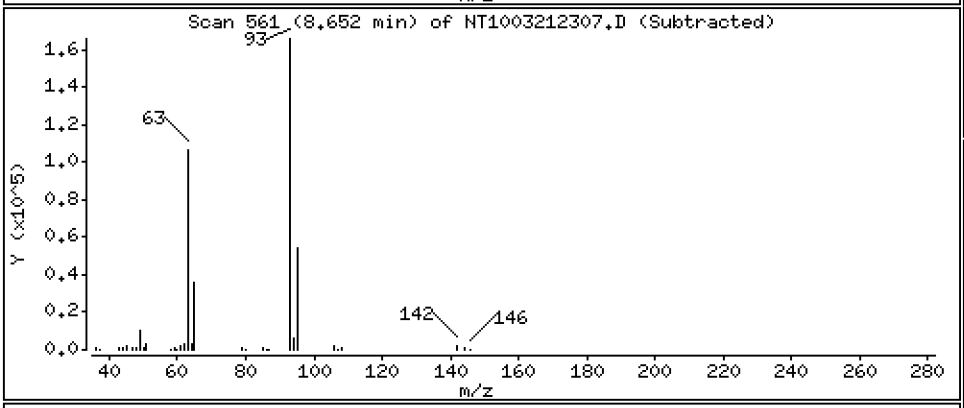
Column diameter: 0.25

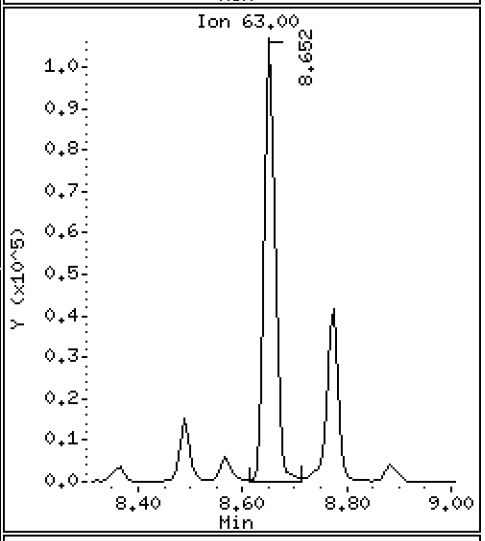
4 Bis(2-Chloroethyl)ether

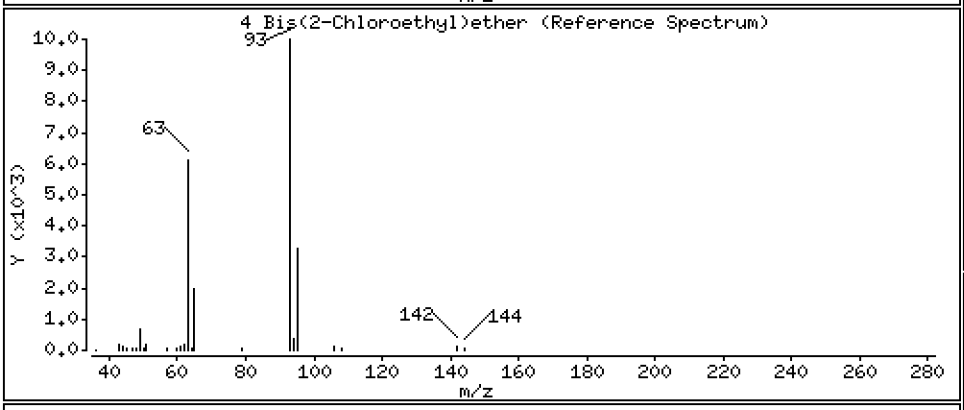
Concentration: 3.882 ug/mL

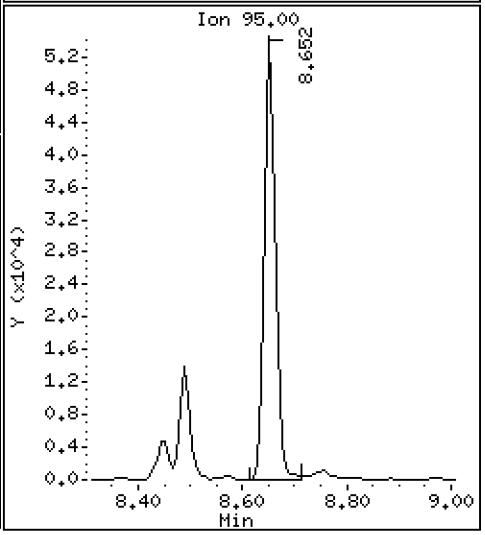


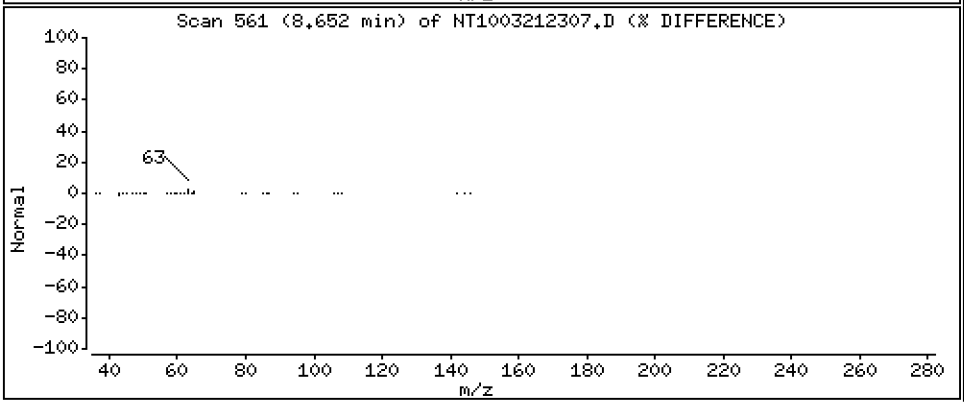












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Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS1

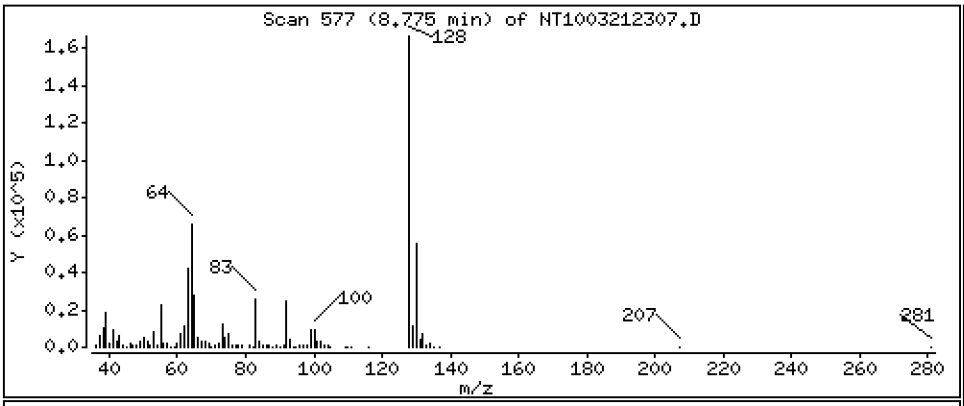
Operator: VTS

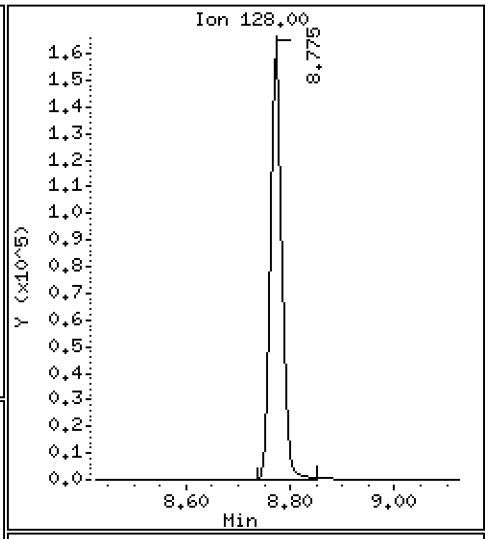
Column phase: ZB-5msi

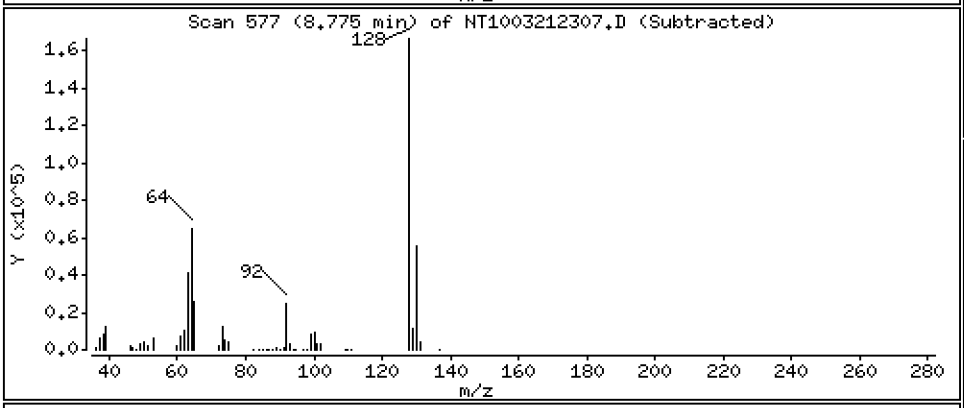
Column diameter: 0.25

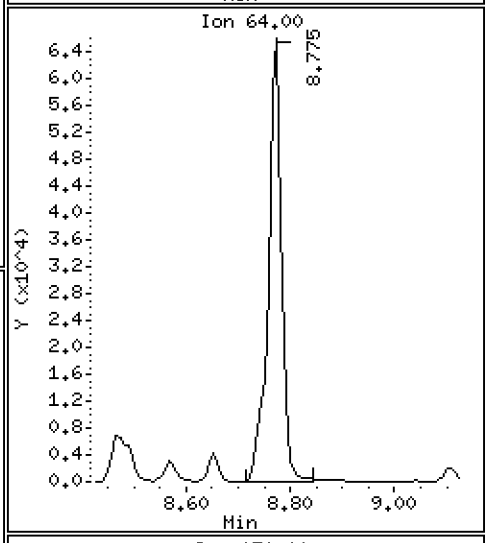
6 2-Chlorophenol

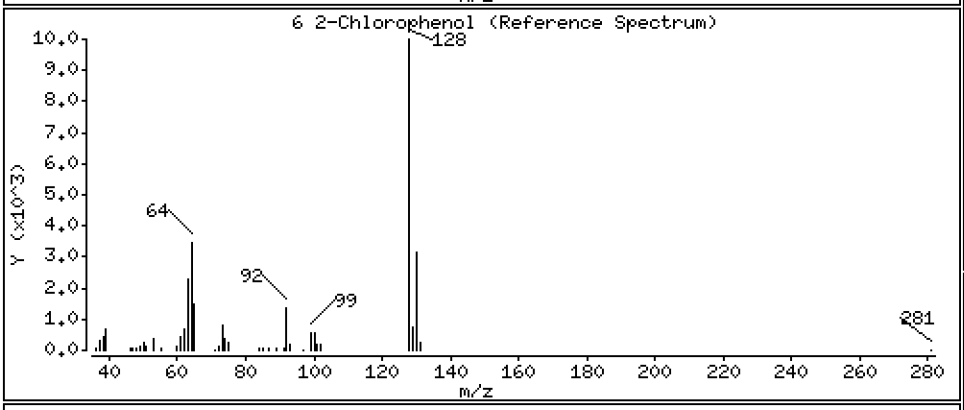
Concentration: 3.448 ug/mL

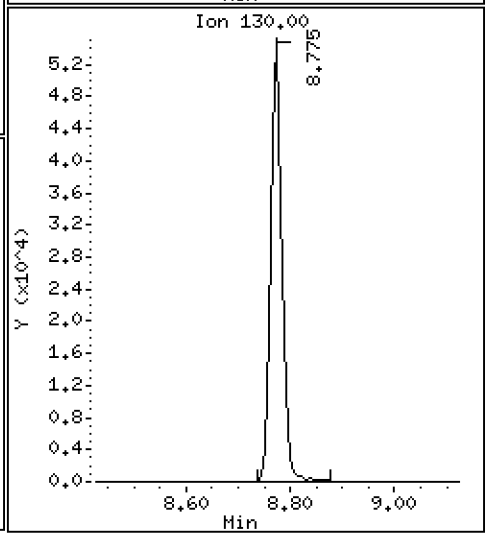


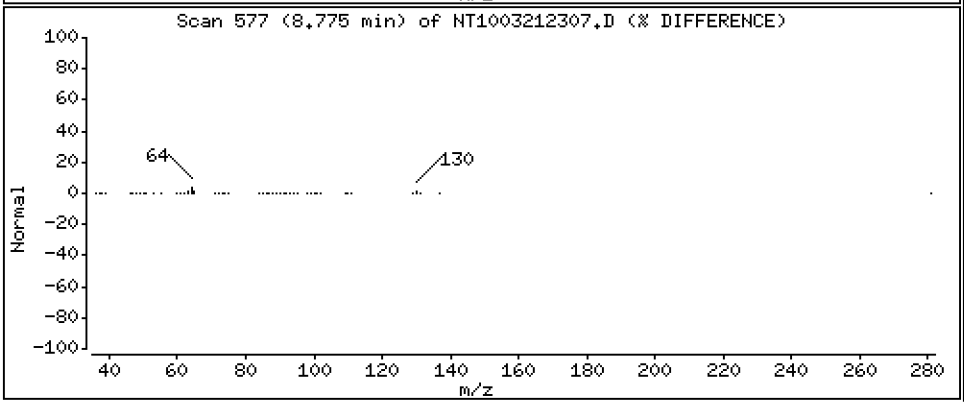












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Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS1

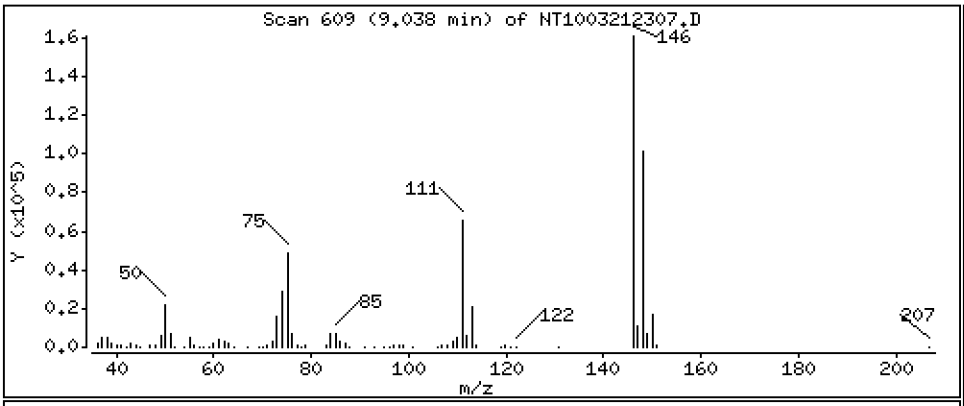
Operator: VTS

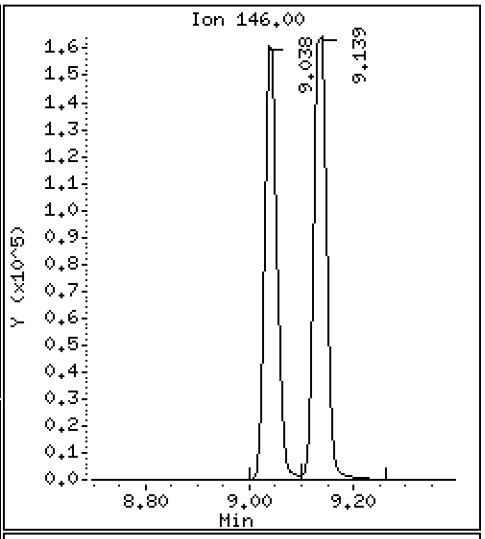
Column phase: ZB-5msi

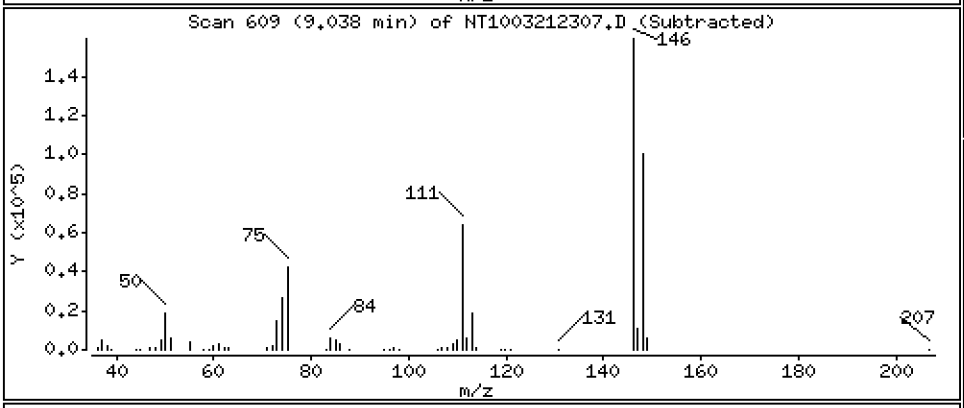
Column diameter: 0.25

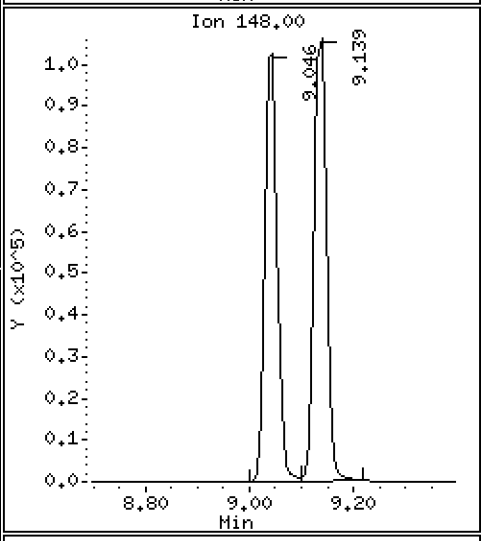
7 1,3-Dichlorobenzene

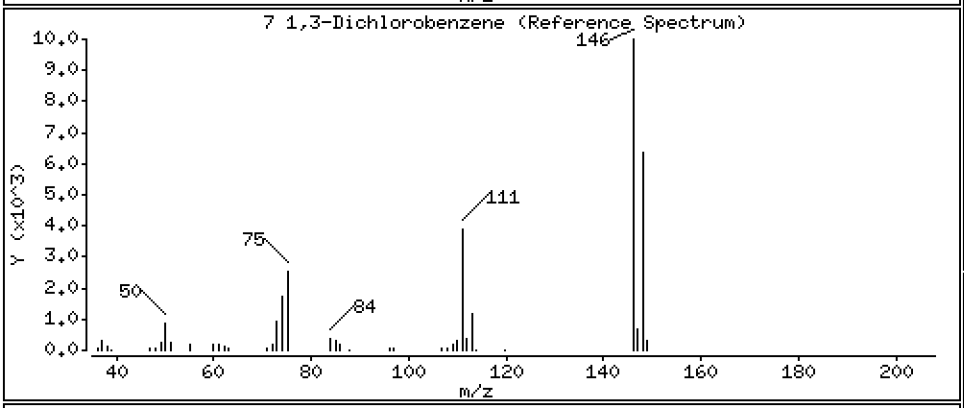
Concentration: 3.556 ug/mL

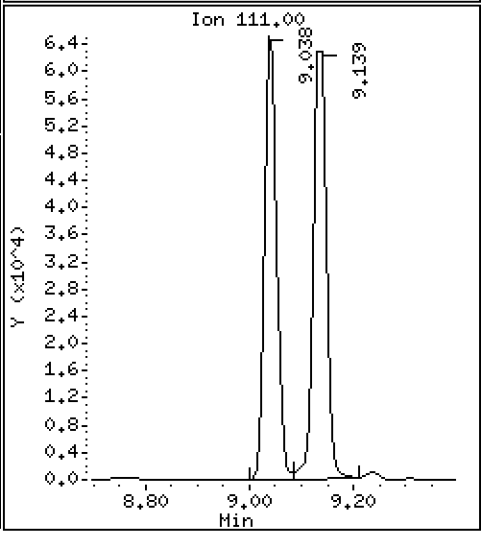


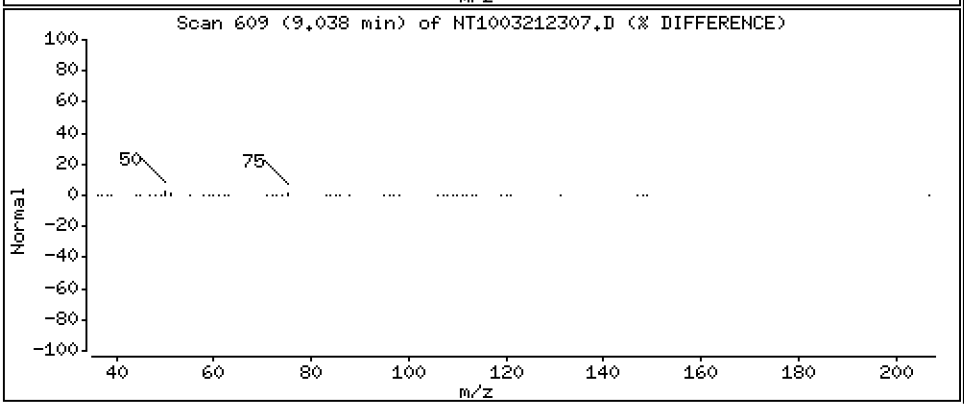












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Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS1

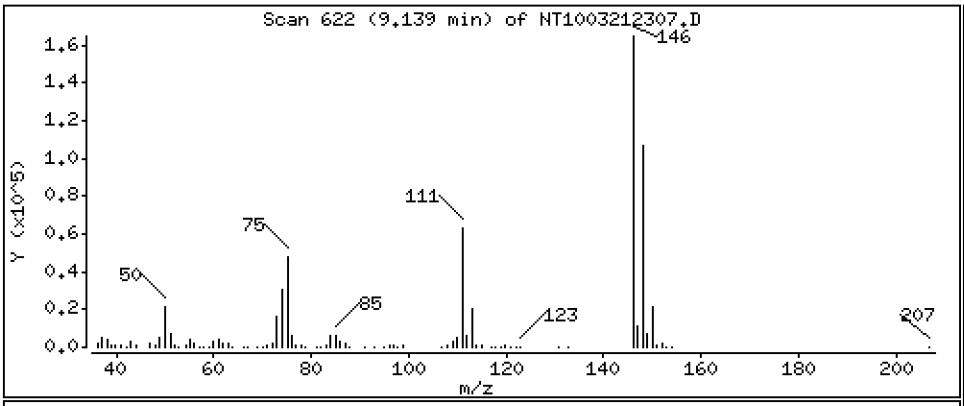
Operator: VTS

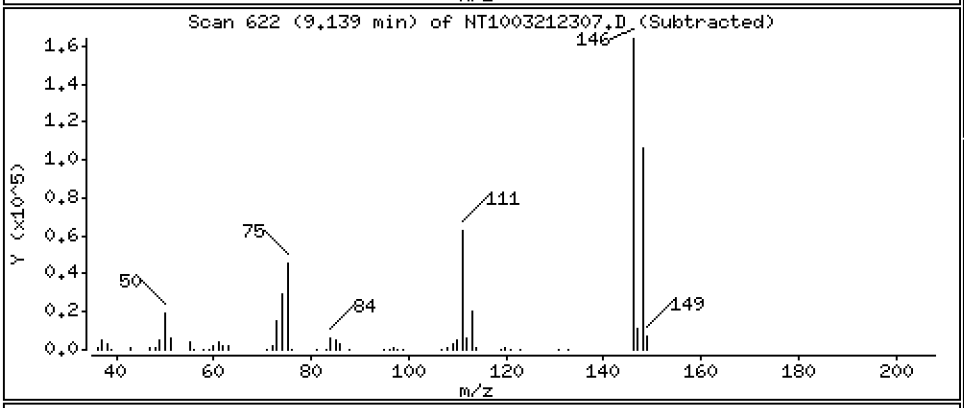
Column phase: ZB-5msi

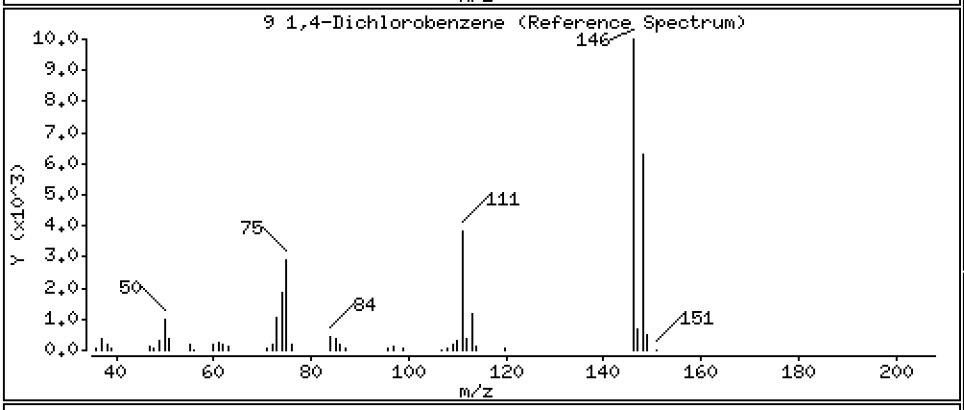
Column diameter: 0.25

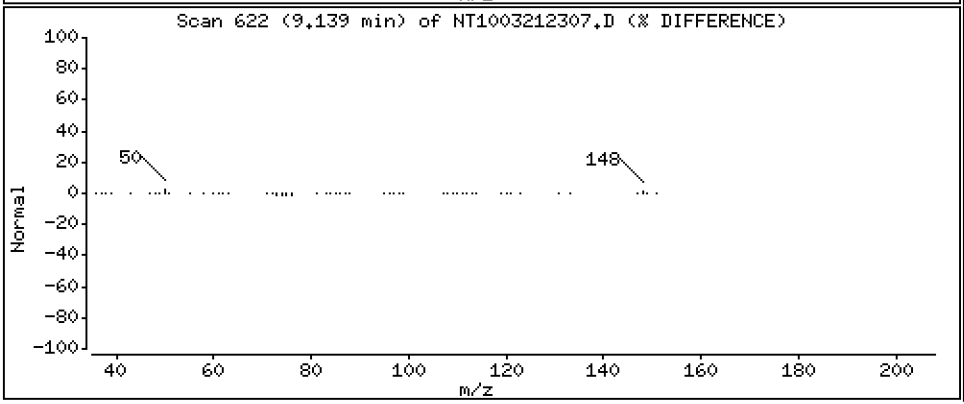
9 1,4-Dichlorobenzene

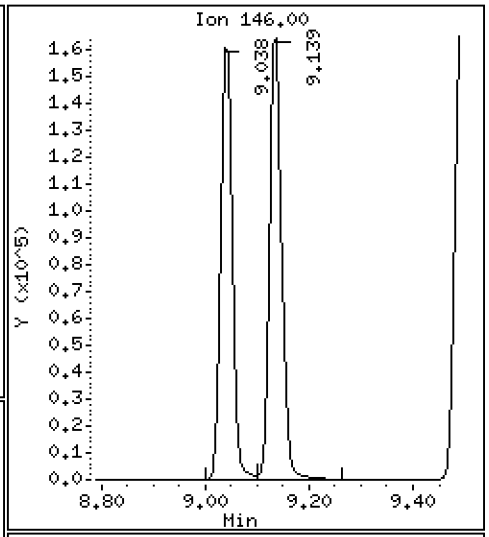
Concentration: 4.055 ug/mL

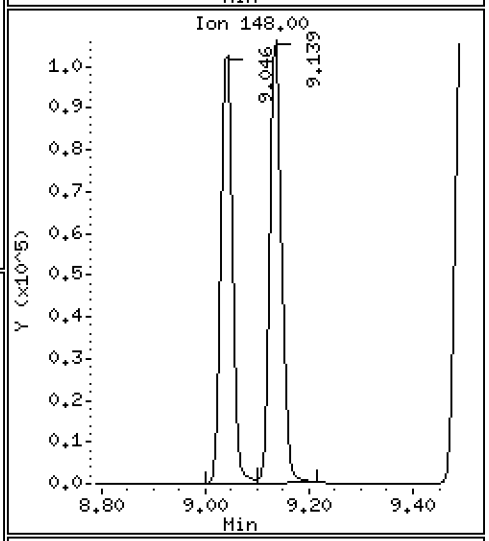


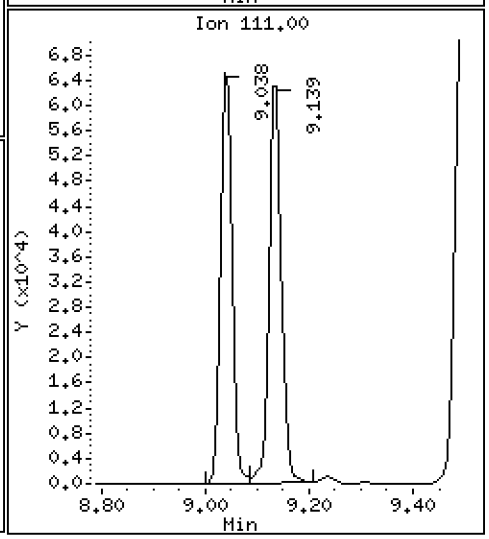












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Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS1

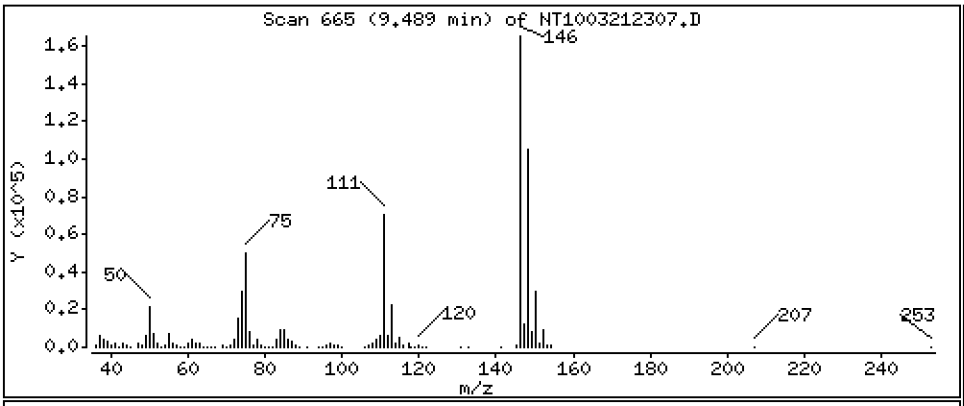
Operator: VTS

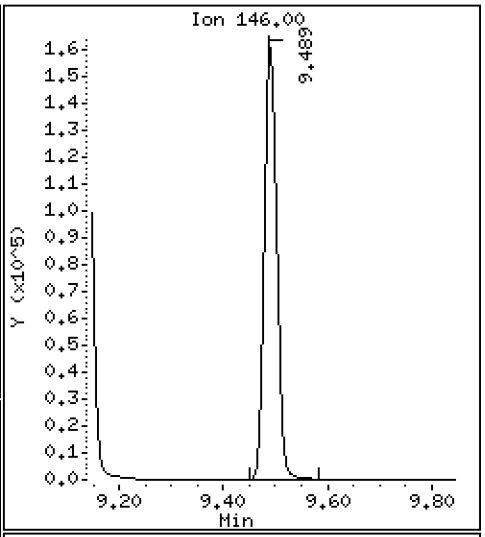
Column phase: ZB-5msi

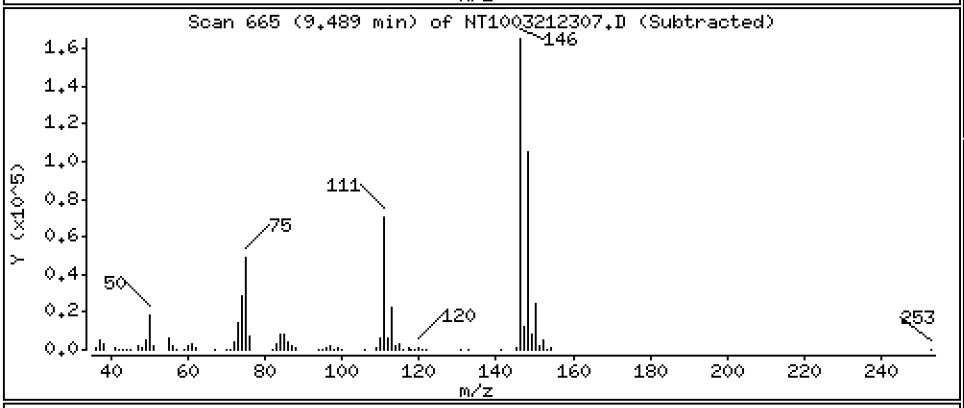
Column diameter: 0.25

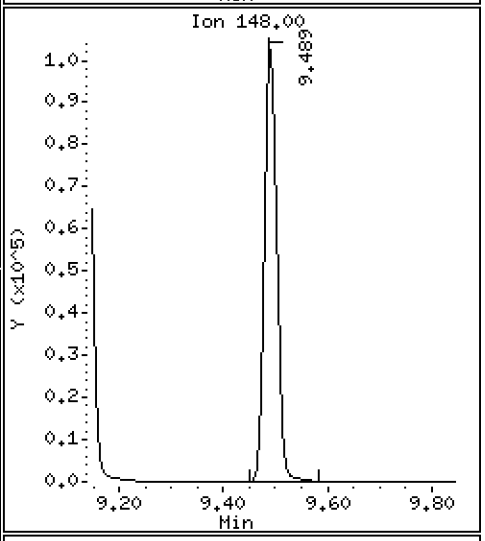
12 1,2-Dichlorobenzene

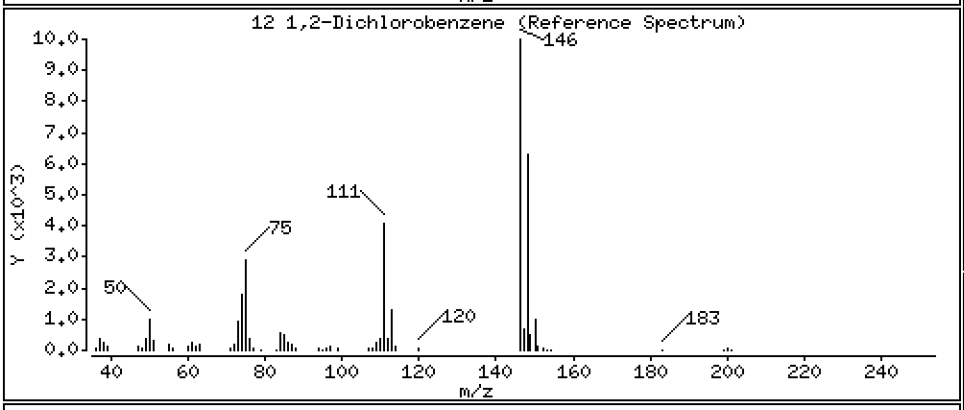
Concentration: 3.639 ug/mL

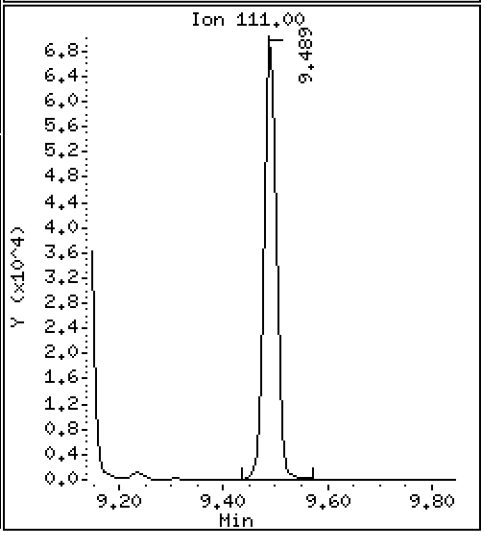


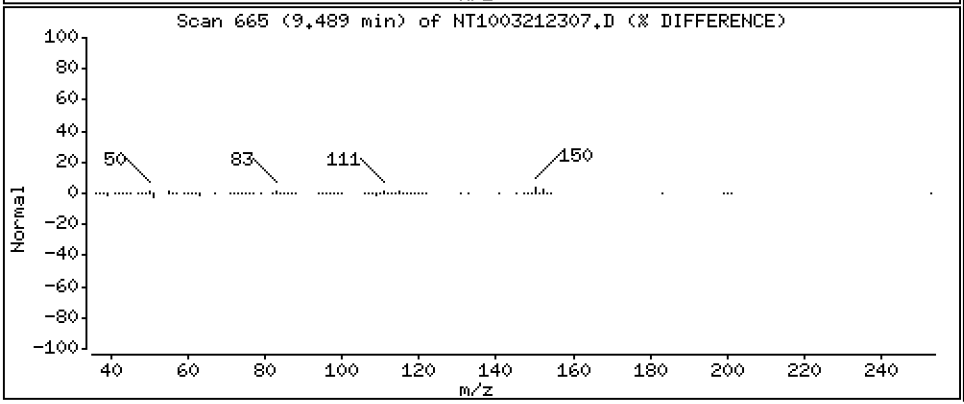












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Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS1

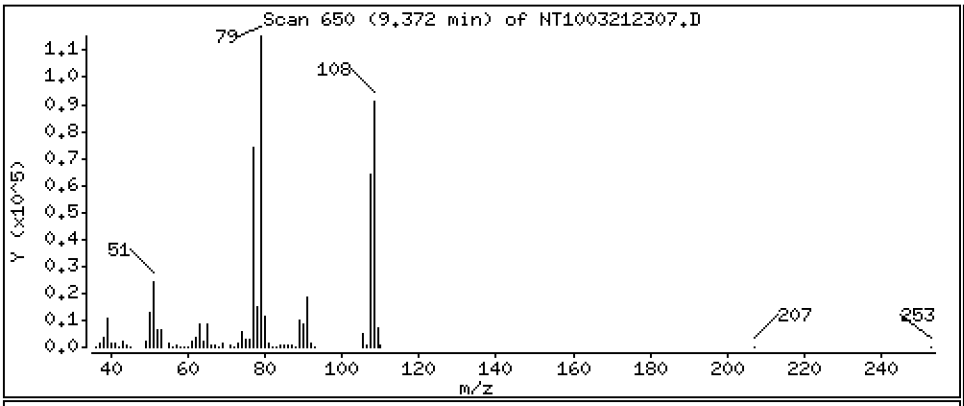
Operator: VTS

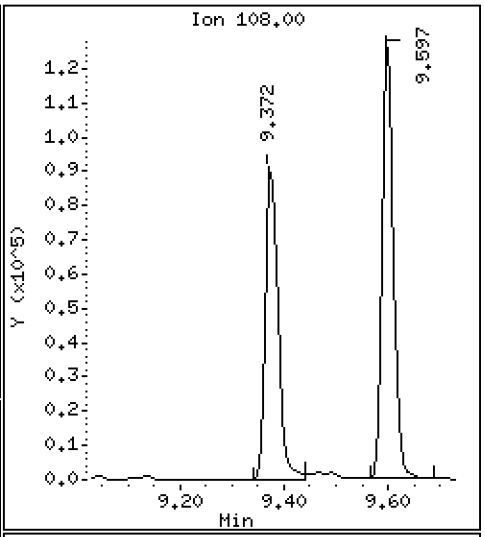
Column phase: ZB-5msi

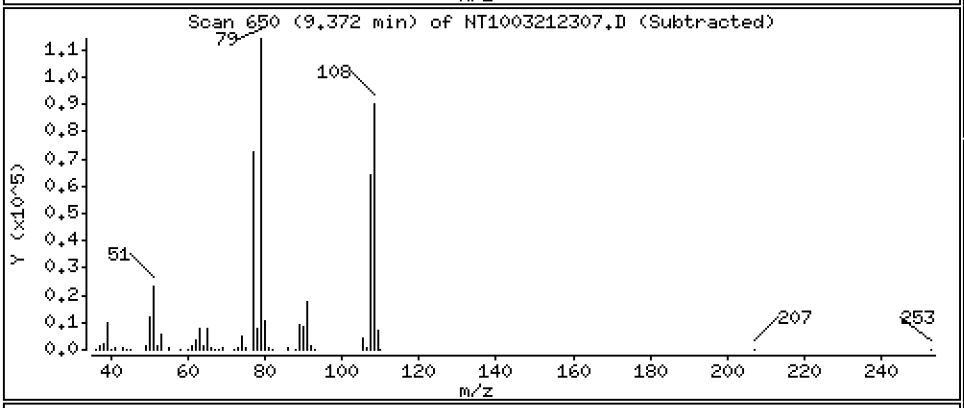
Column diameter: 0.25

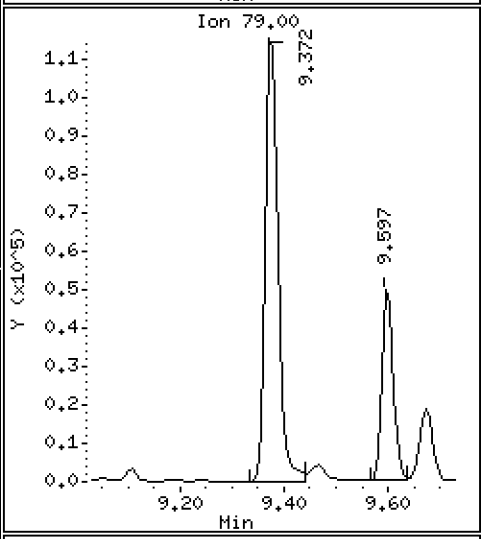
11 Benzyl alcohol

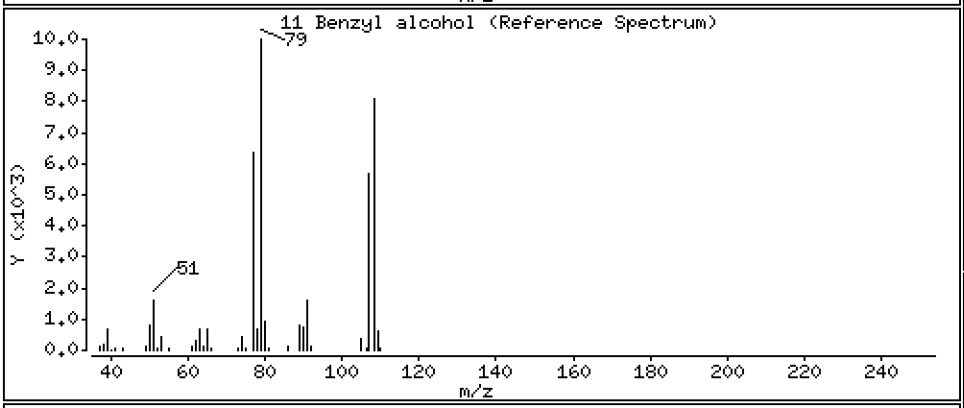
Concentration: 3.819 ug/mL

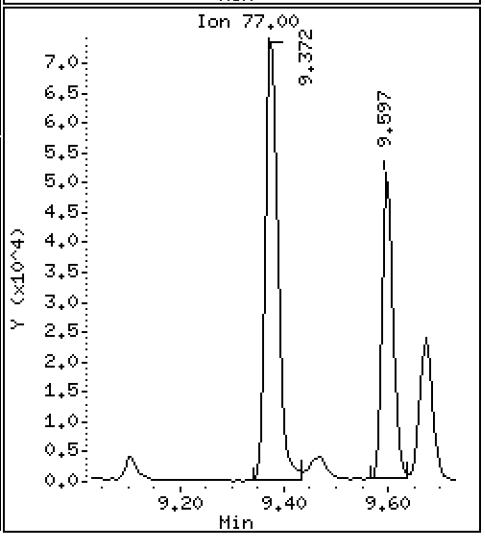


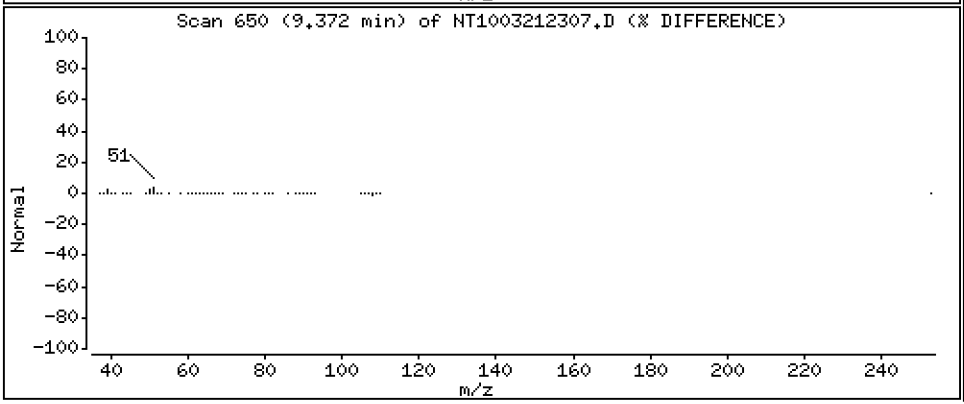












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Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS1

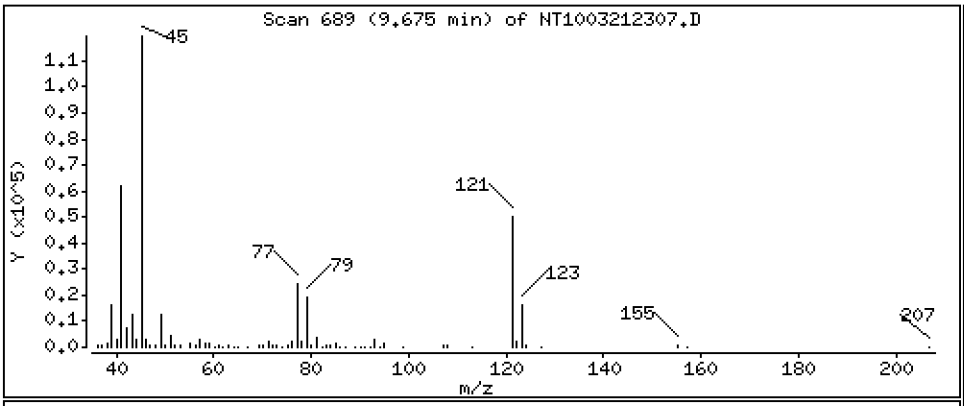
Operator: VTS

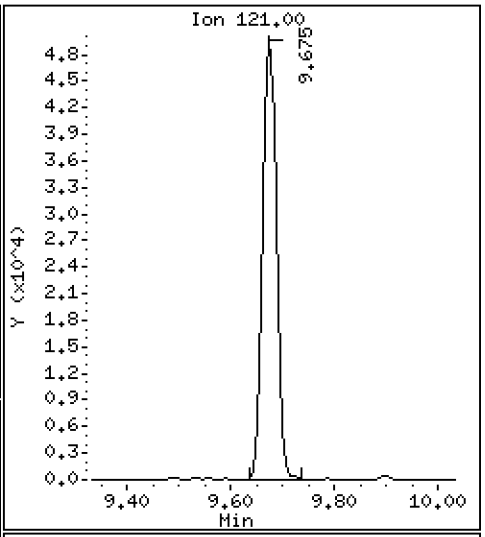
Column phase: ZB-5msi

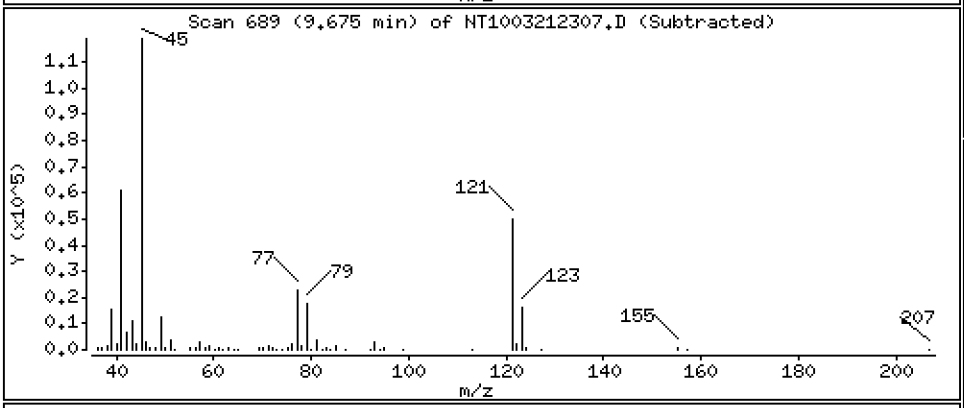
Column diameter: 0.25

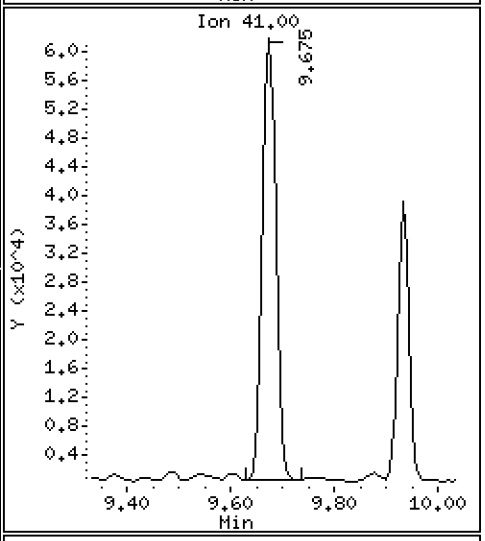
14 2,2'-oxybis(1-Chloropropane)

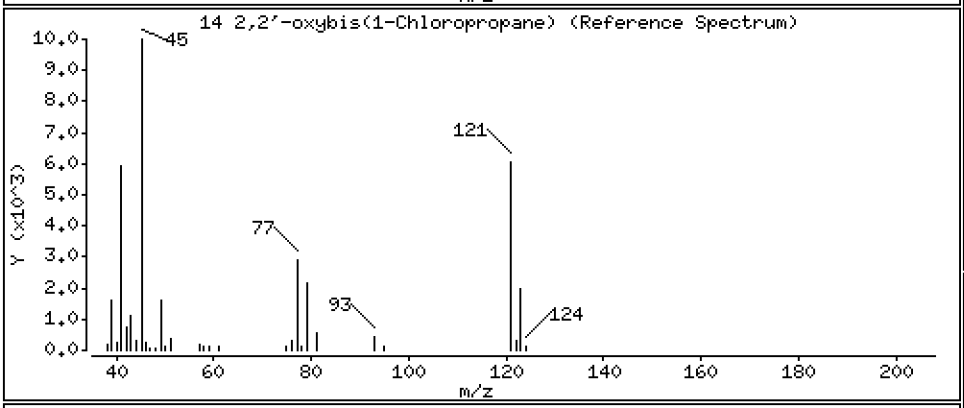
Concentration: 4.184 ug/mL

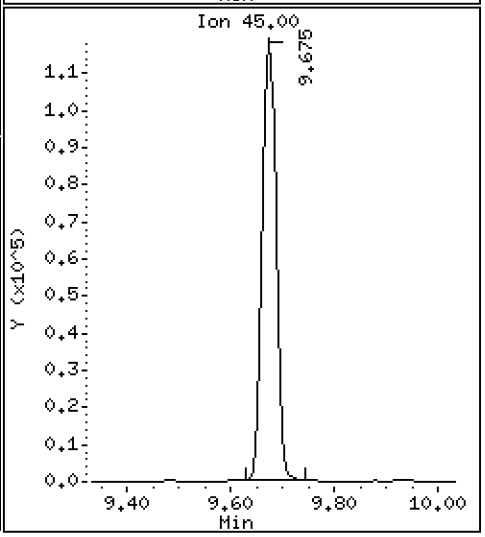


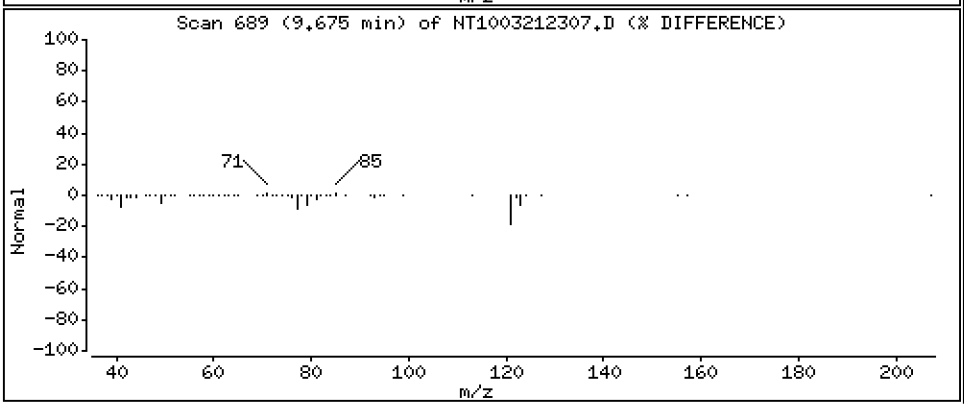












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Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS1

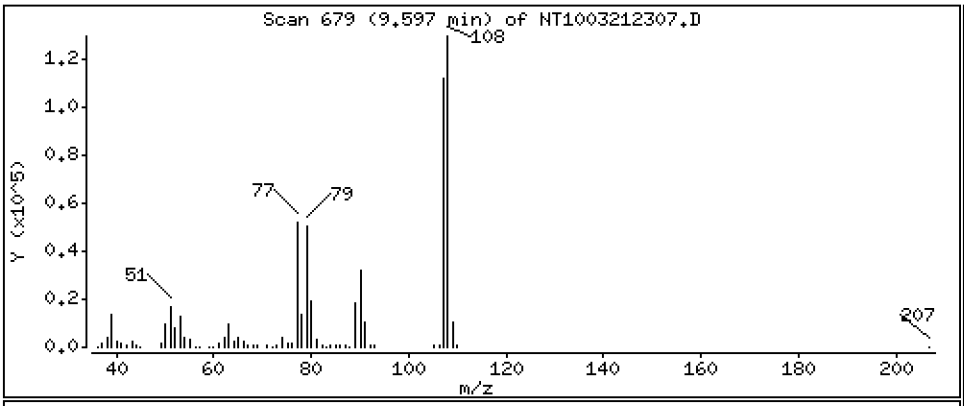
Operator: VTS

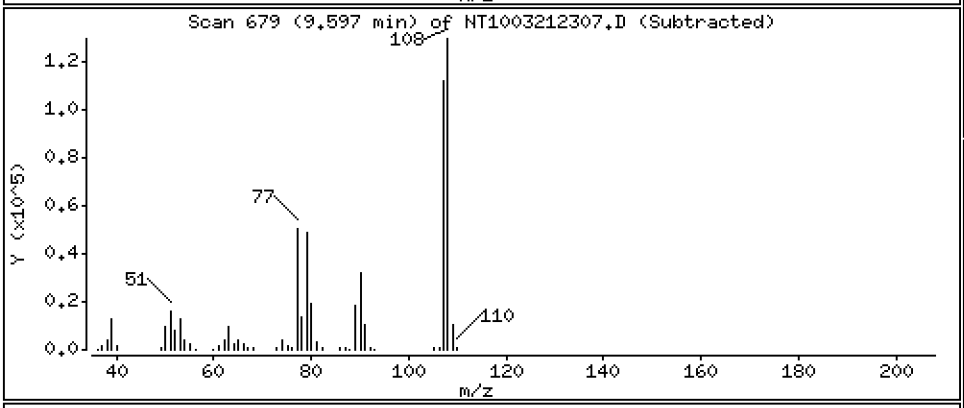
Column phase: ZB-5msi

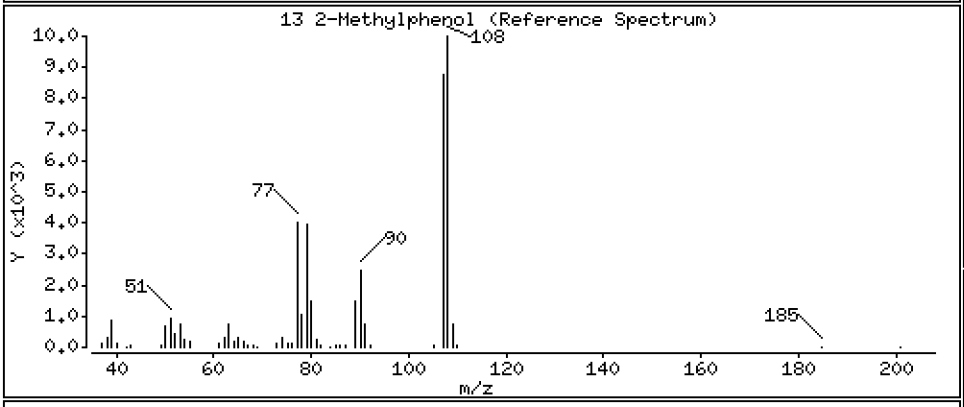
Column diameter: 0.25

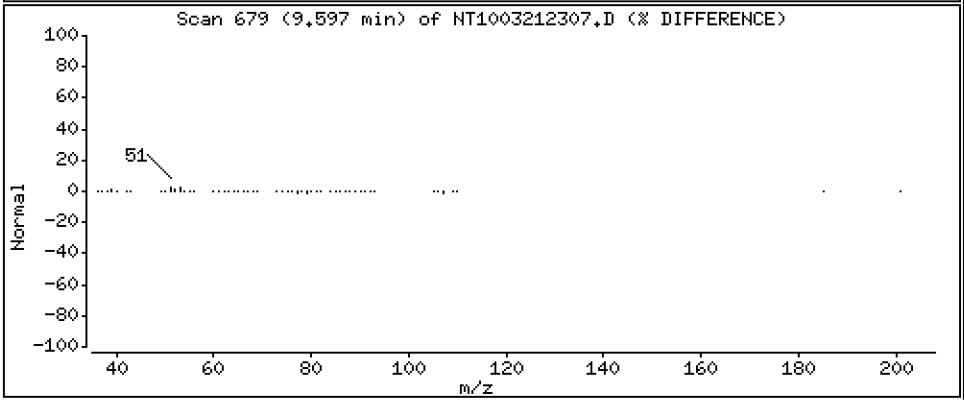
13 2-Methylphenol

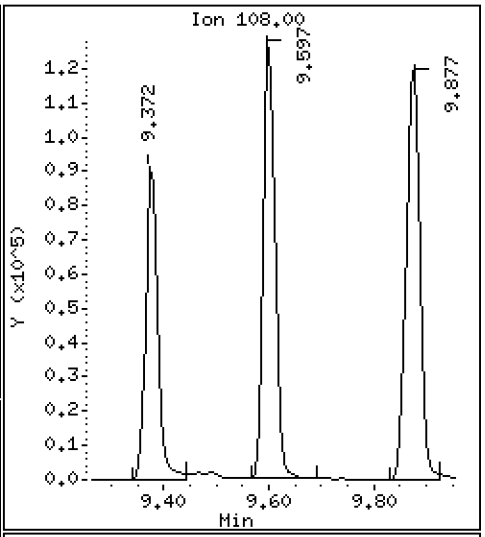
Concentration: 3.193 ug/mL

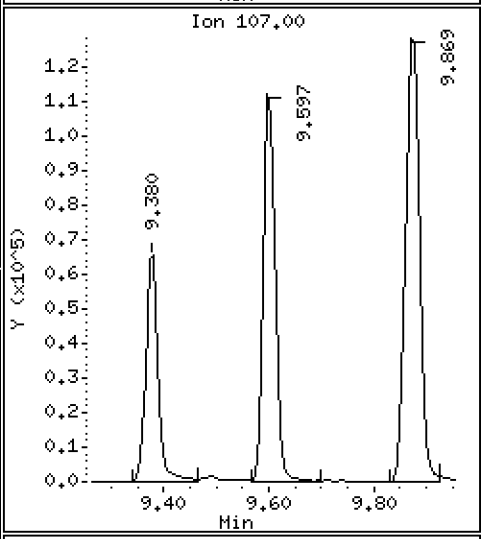


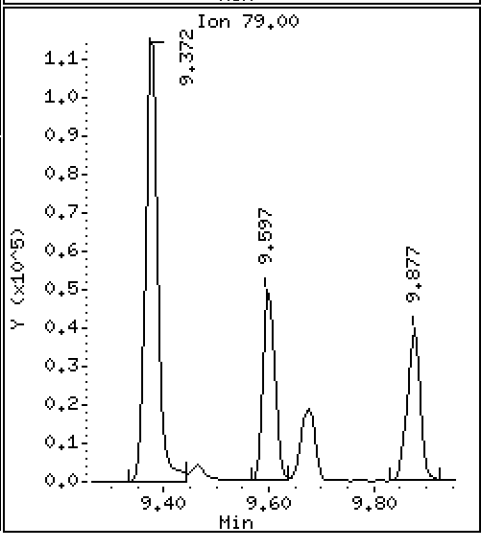












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Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS1

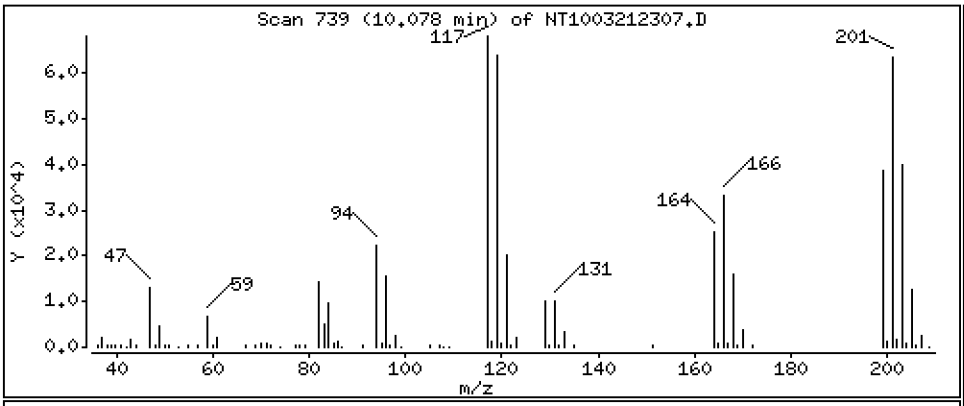
Operator: VTS

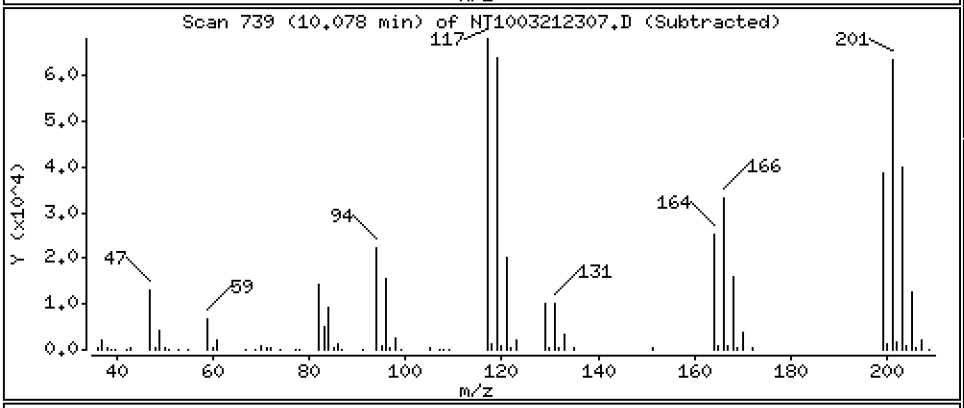
Column phase: ZB-5msi

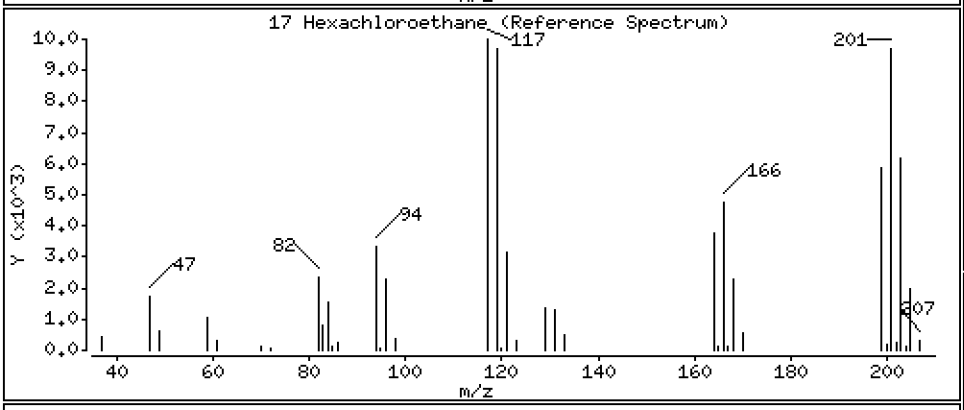
Column diameter: 0.25

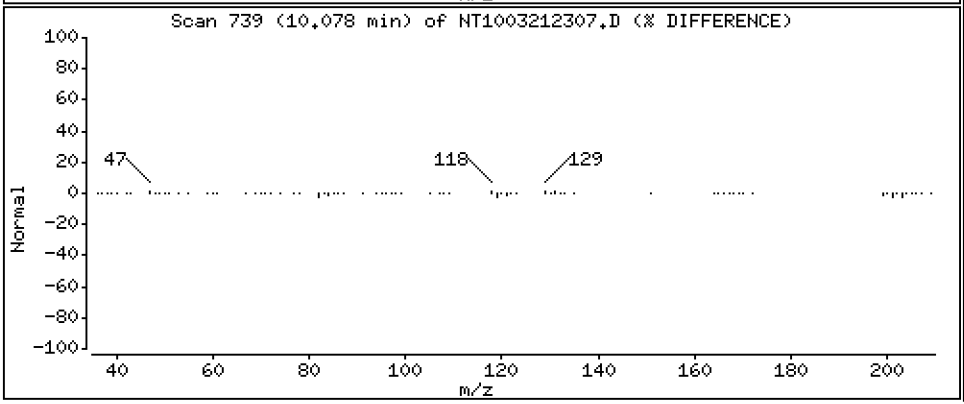
17 Hexachloroethane

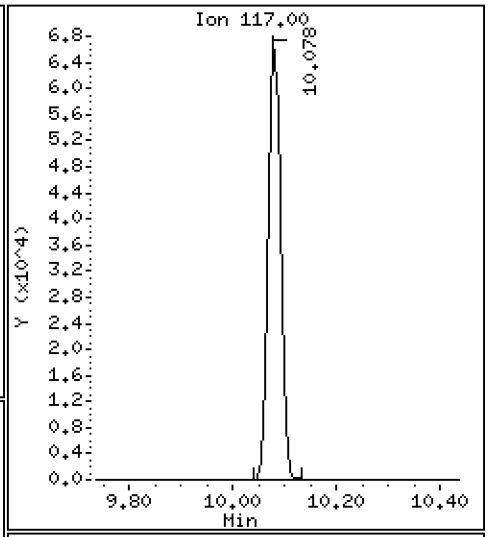
Concentration: 3.532 ug/mL

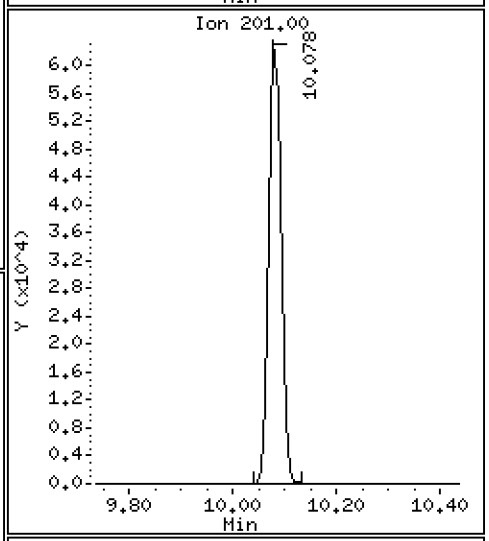


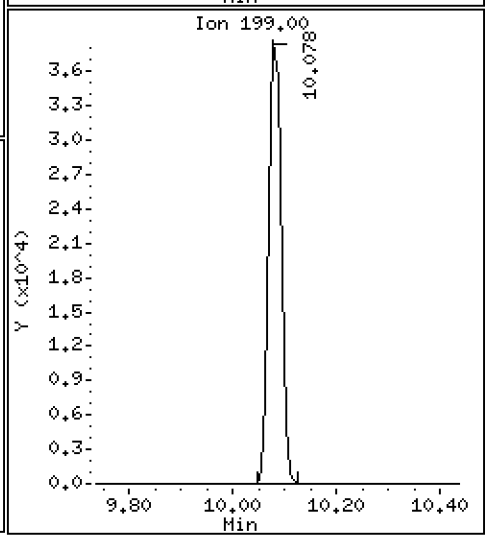












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Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS1

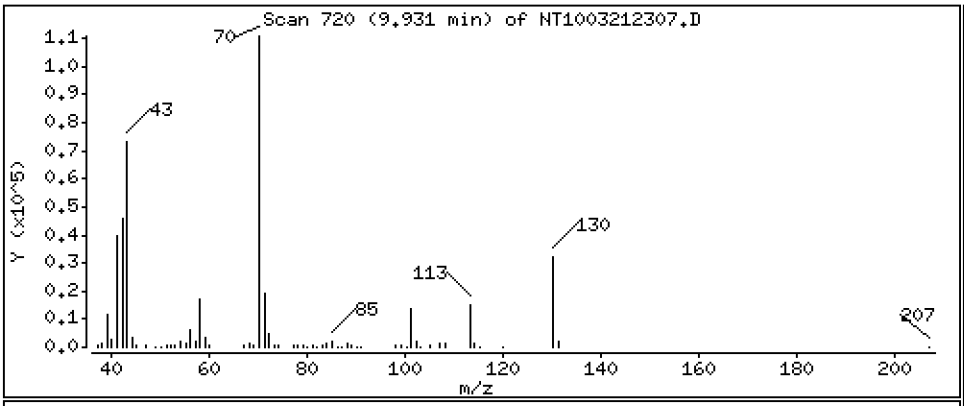
Operator: VTS

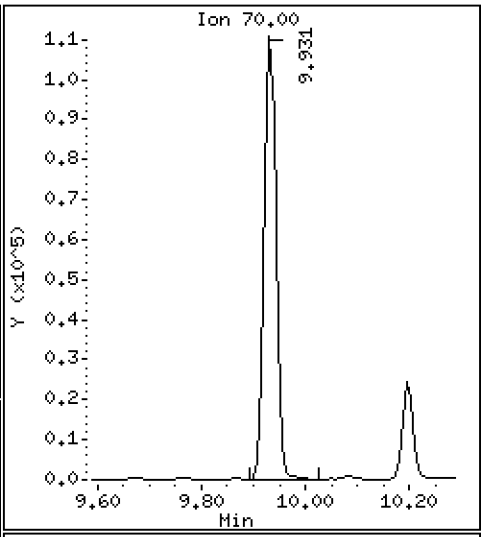
Column phase: ZB-5msi

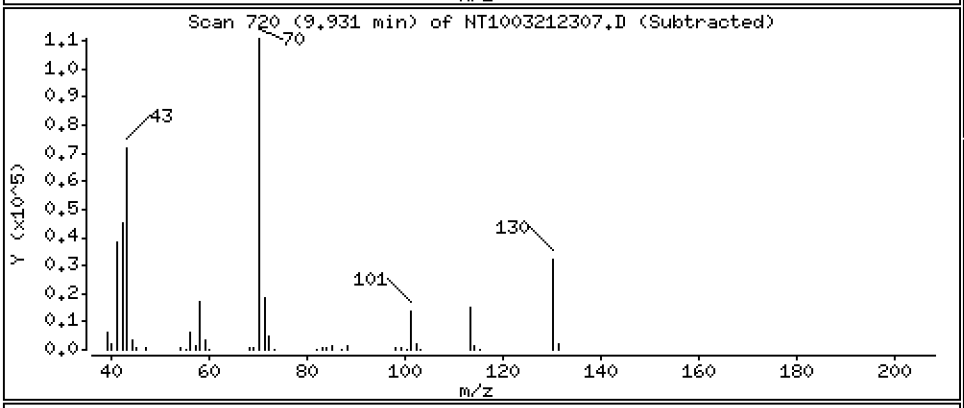
Column diameter: 0.25

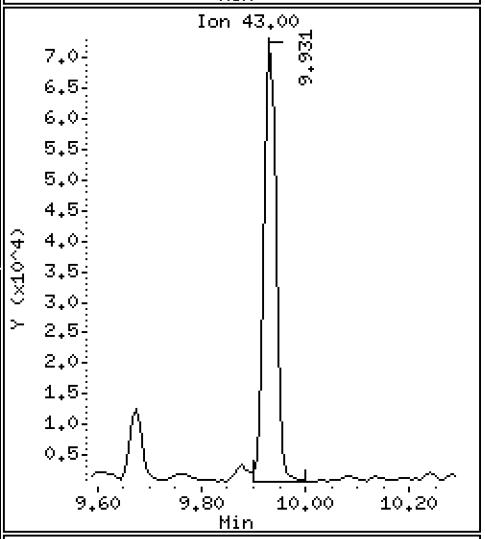
16 N-Nitroso-di-n-propylamine

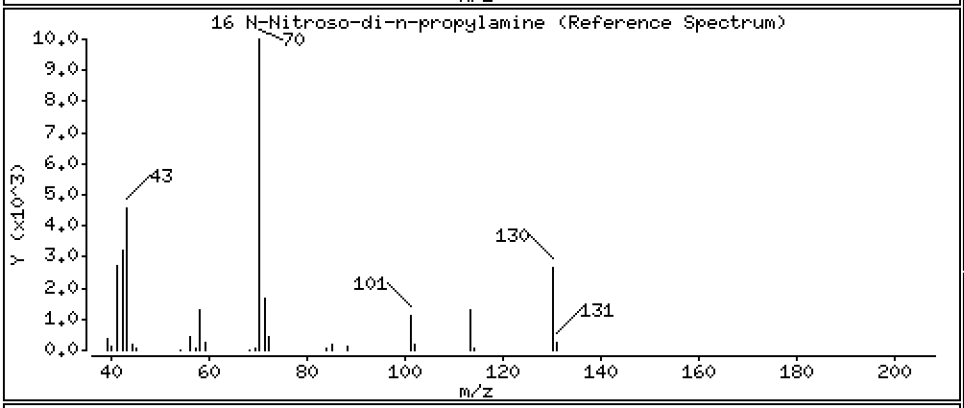
Concentration: 3.501 ug/mL

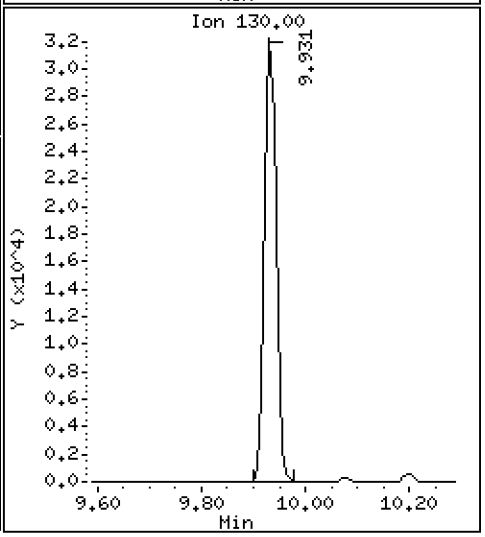


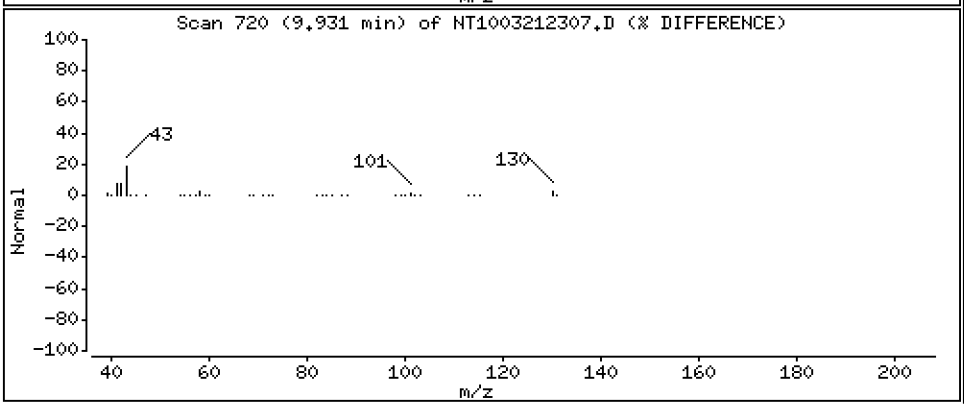












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Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS1

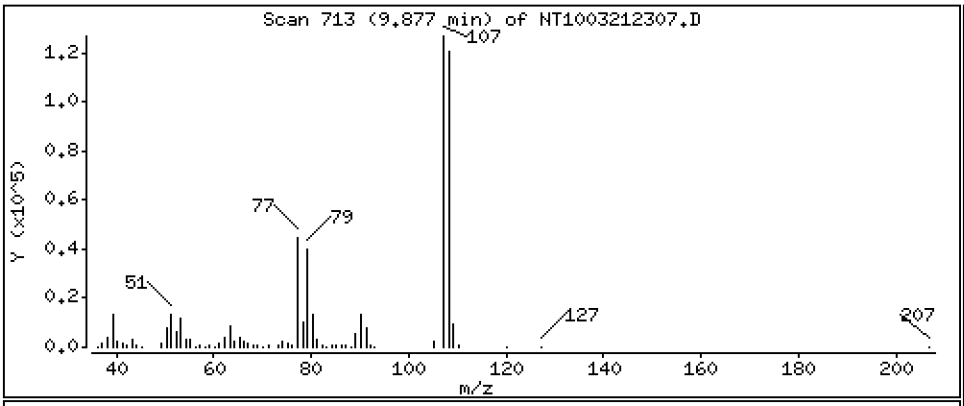
Operator: VTS

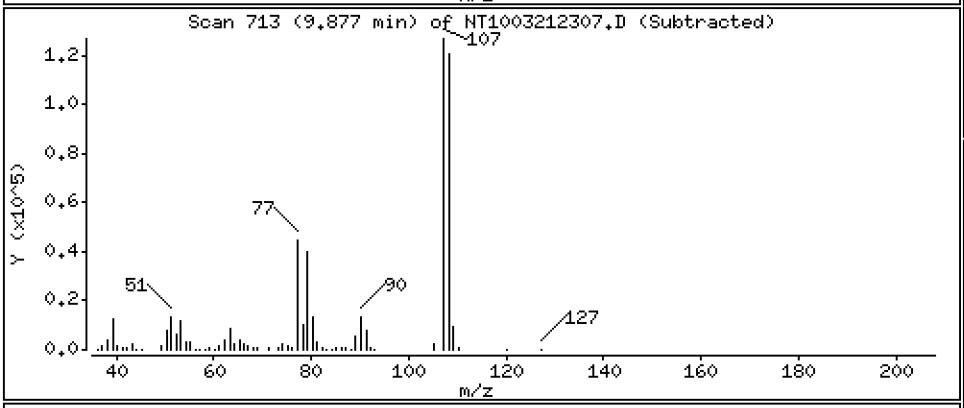
Column phase: ZB-5msi

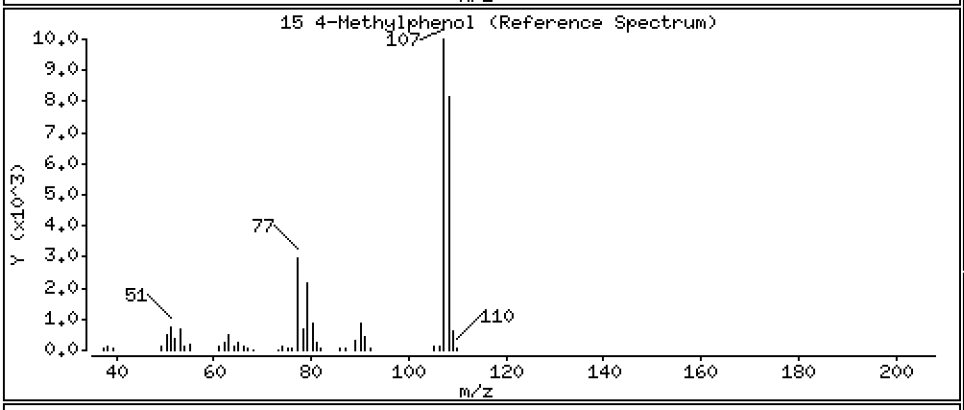
Column diameter: 0.25

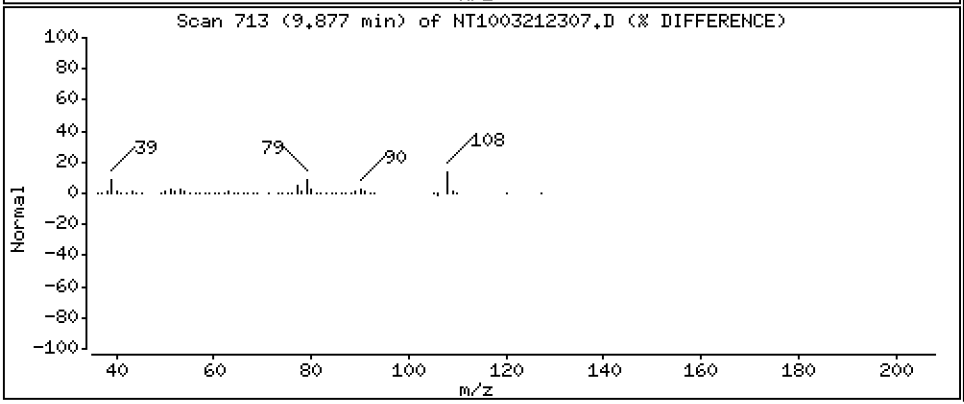
15 4-Methylphenol

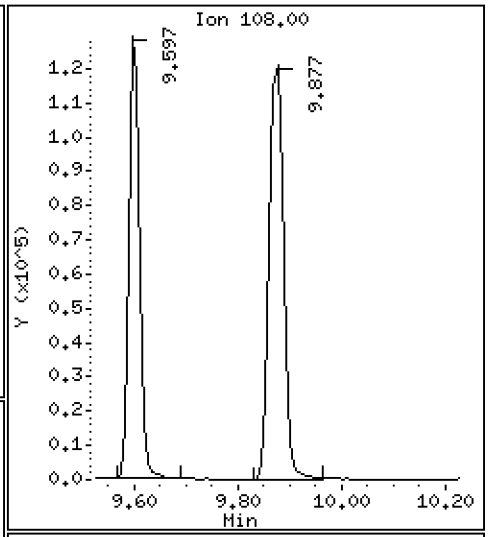
Concentration: 3.529 ug/mL

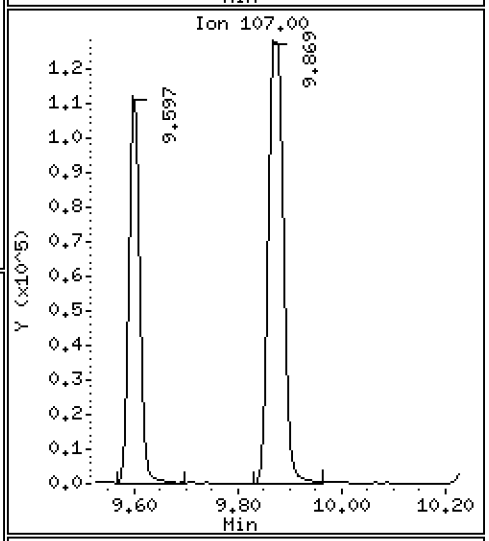


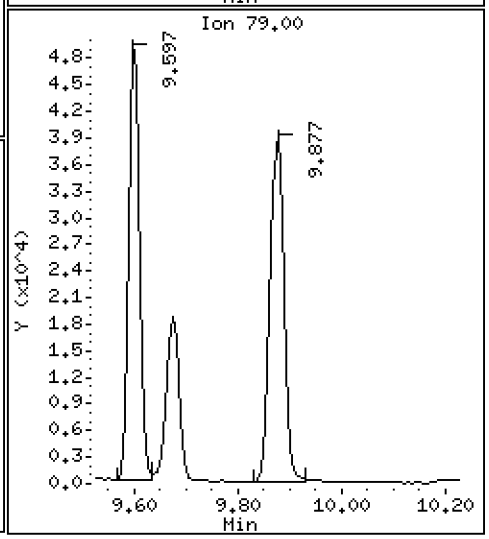












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212307.D

Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS1

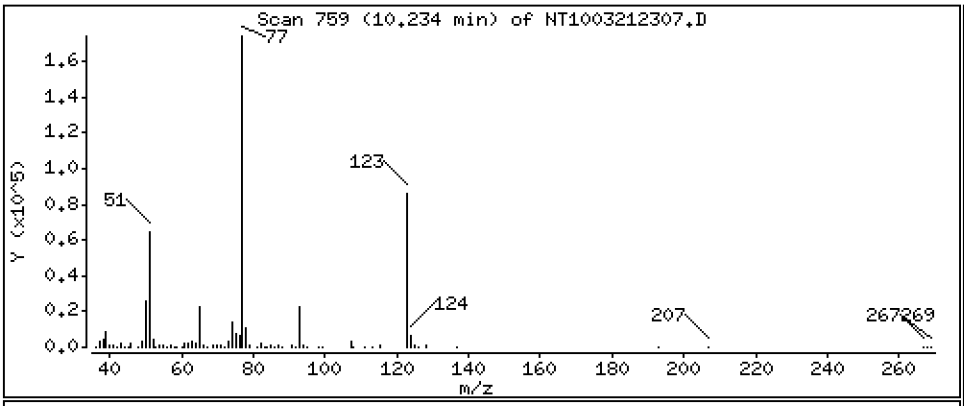
Operator: VTS

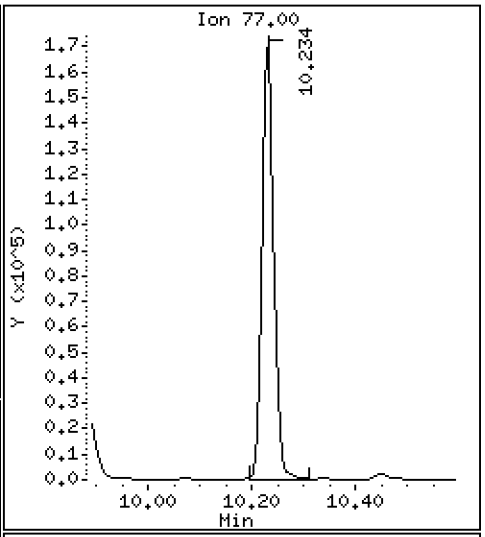
Column phase: ZB-5msi

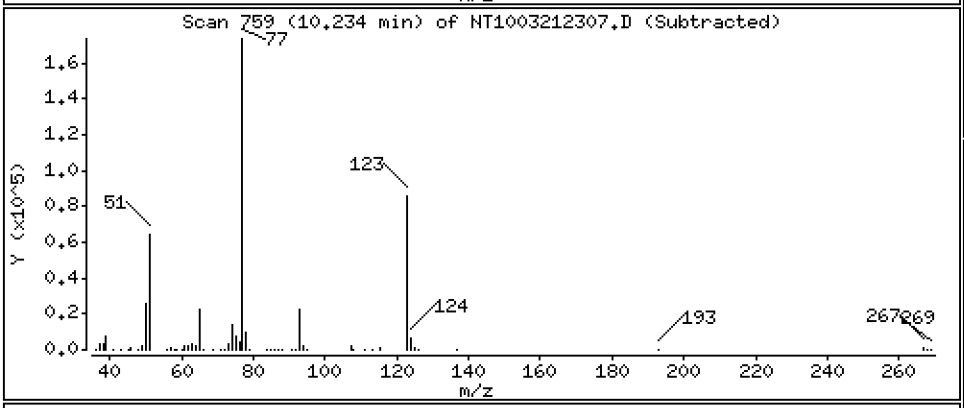
Column diameter: 0.25

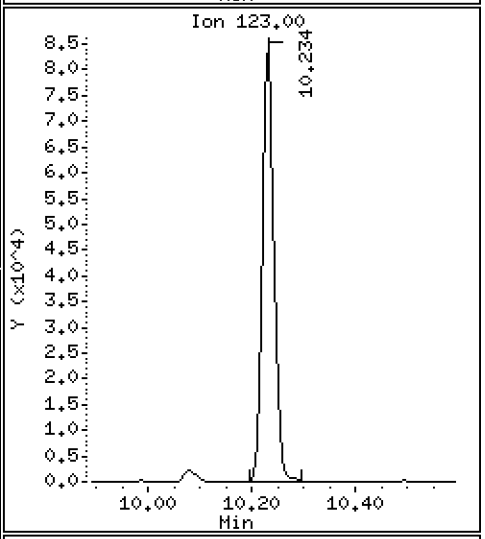
19 Nitrobenzene

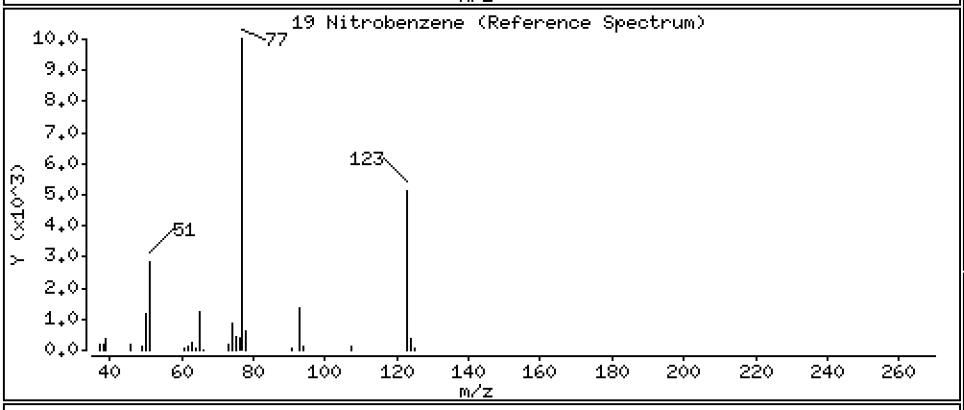
Concentration: 3.622 ug/mL

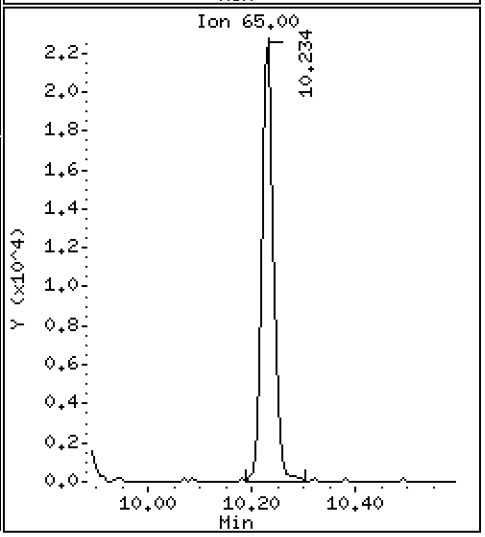


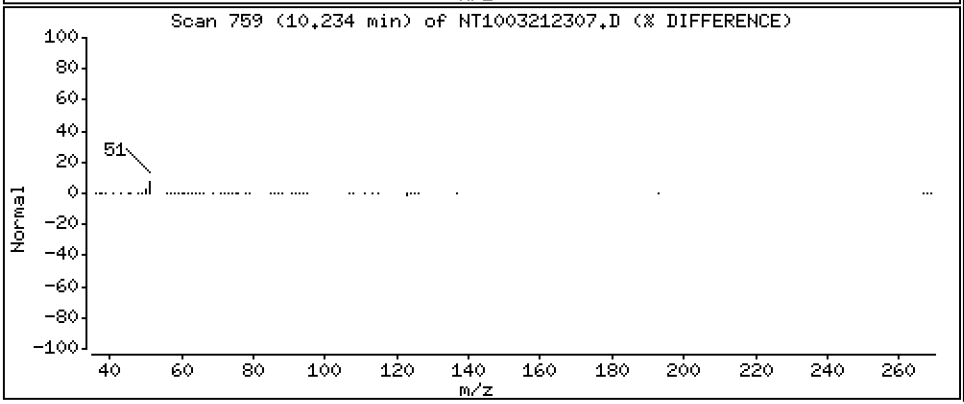












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Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS1

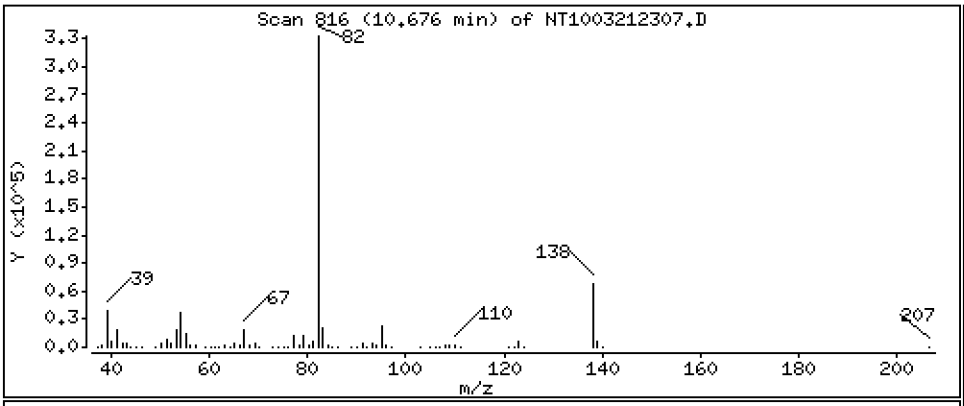
Operator: VTS

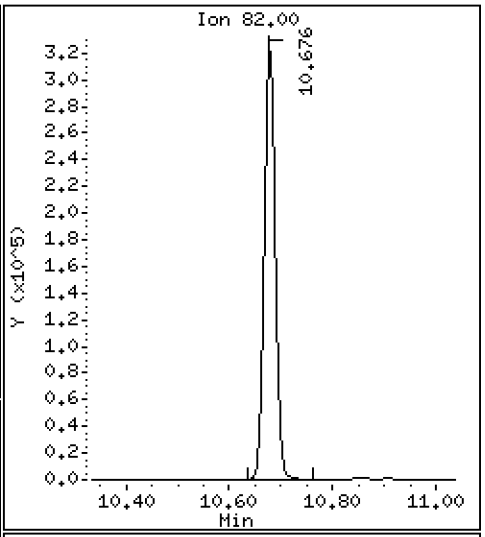
Column phase: ZB-5msi

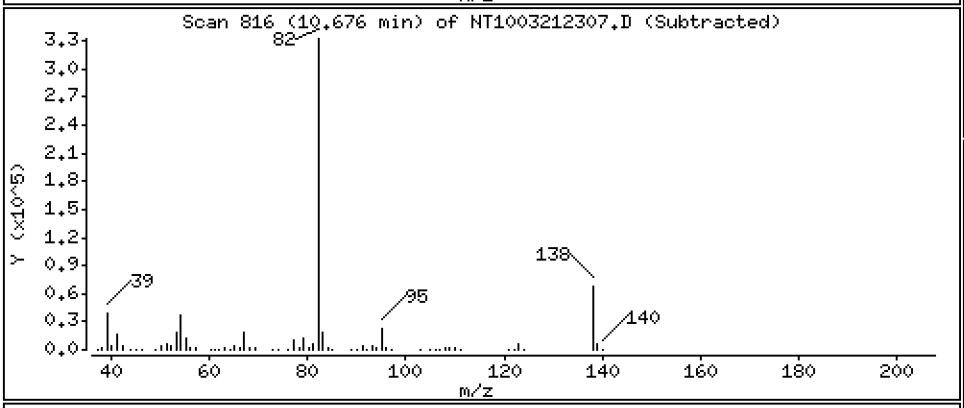
Column diameter: 0.25

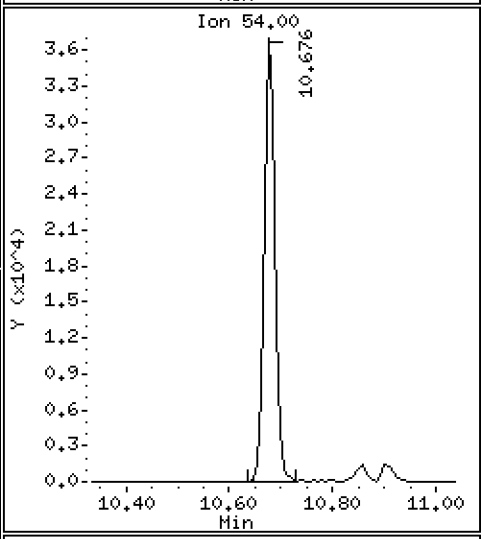
20 Isophorone

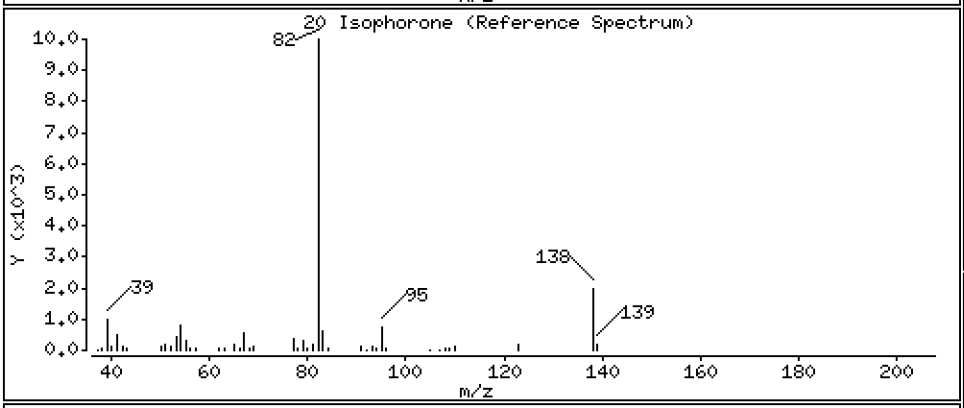
Concentration: 5.390 ug/mL

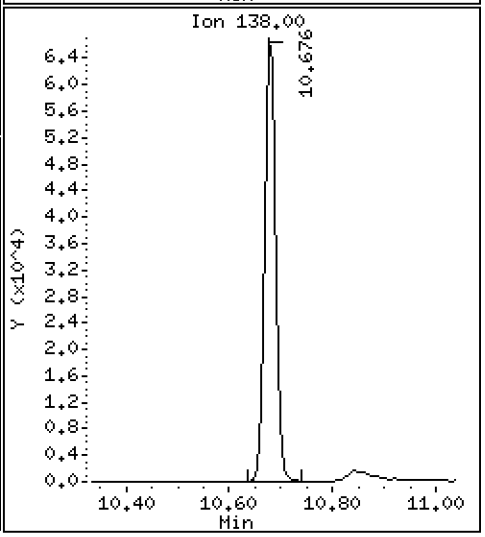


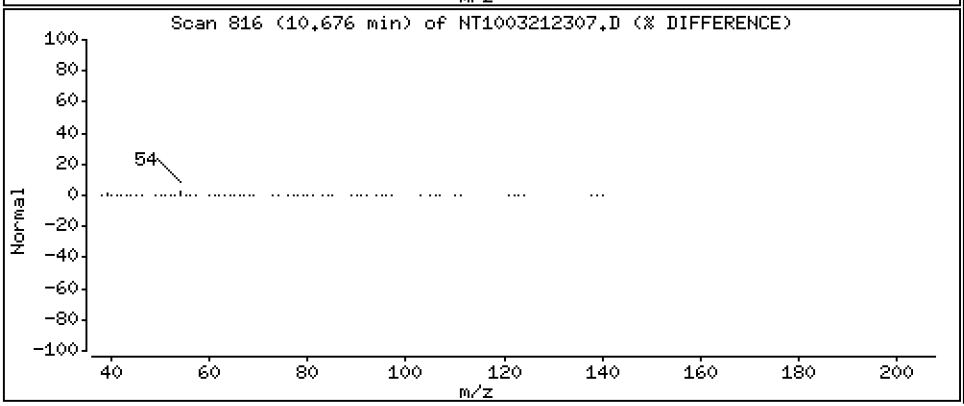












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Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS1

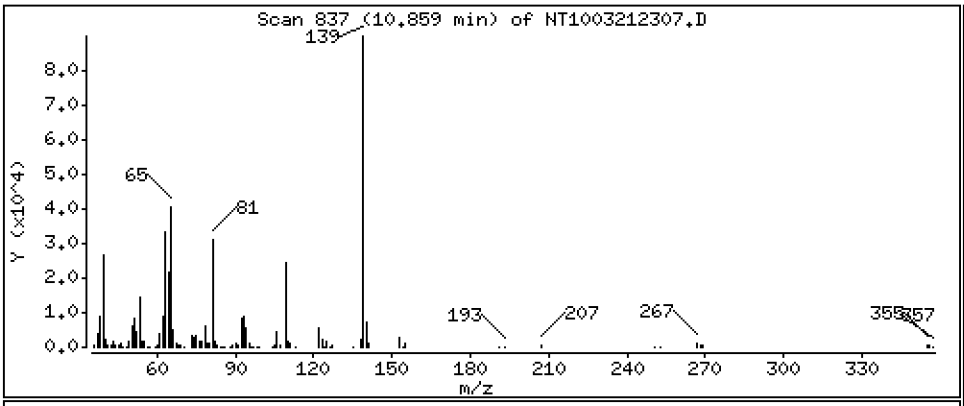
Operator: VTS

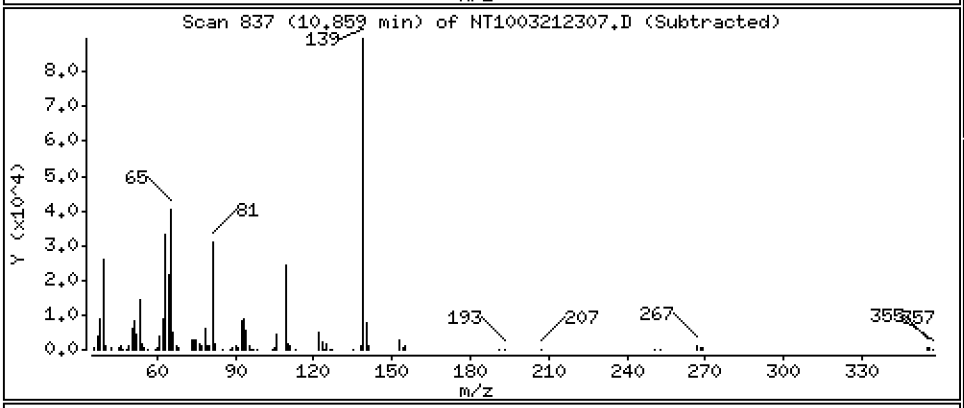
Column phase: ZB-5msi

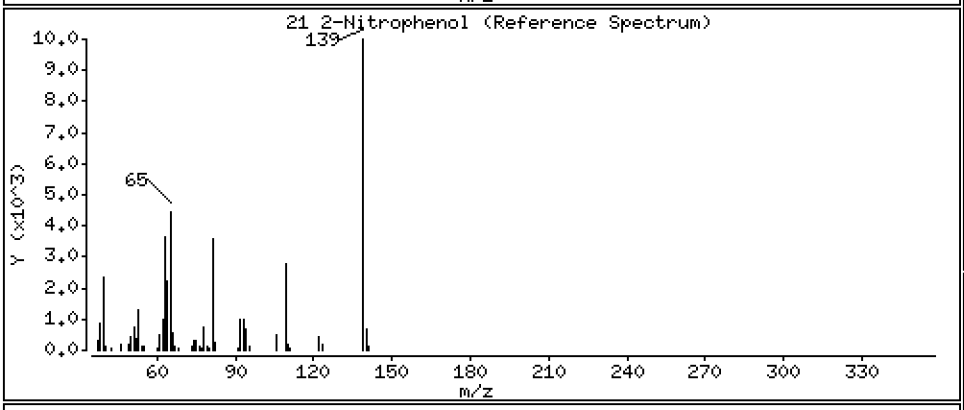
Column diameter: 0.25

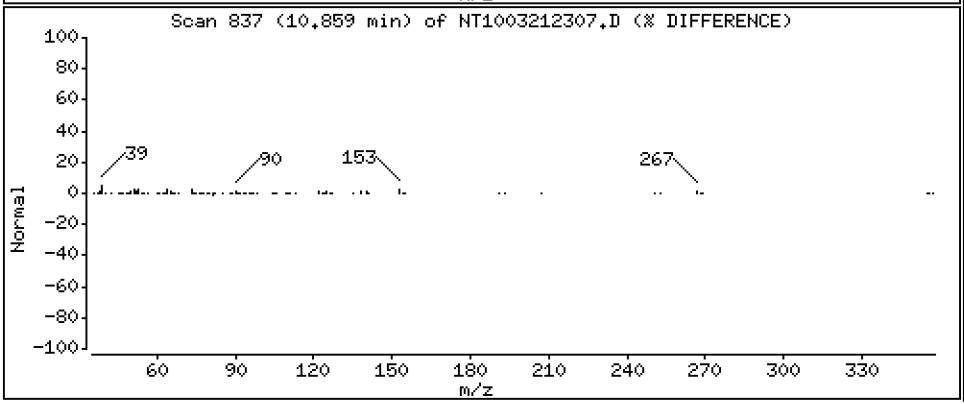
21 2-Nitrophenol

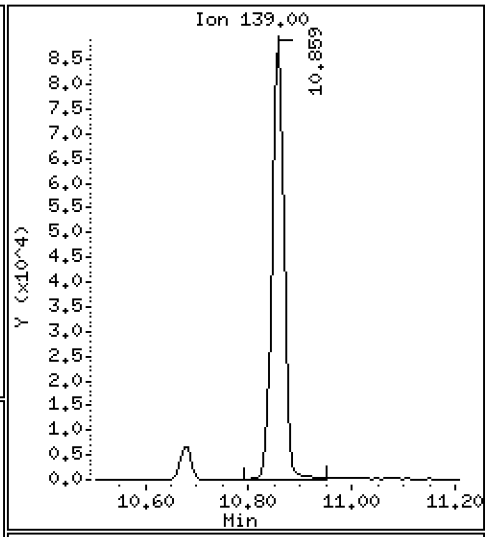
Concentration: 4.409 ug/mL

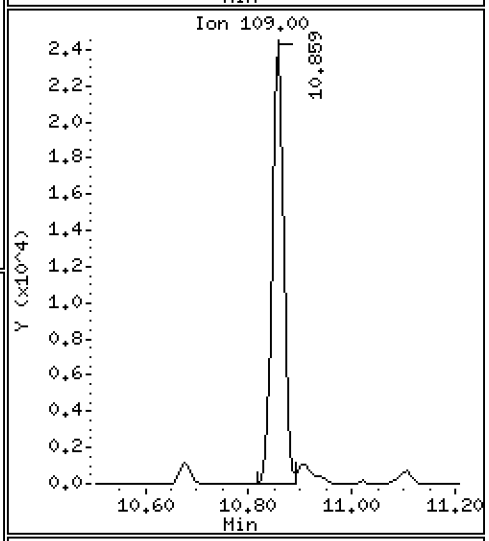


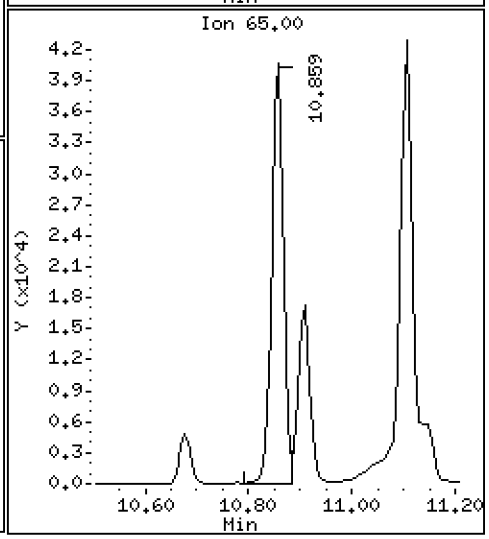












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Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS1

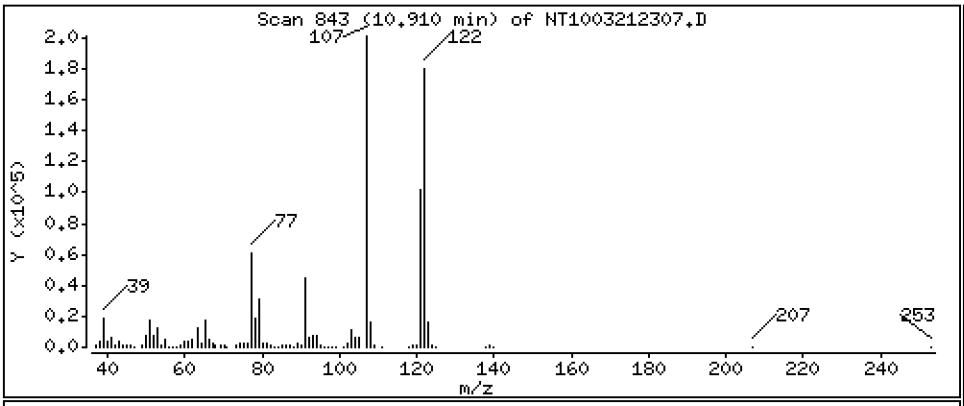
Operator: VTS

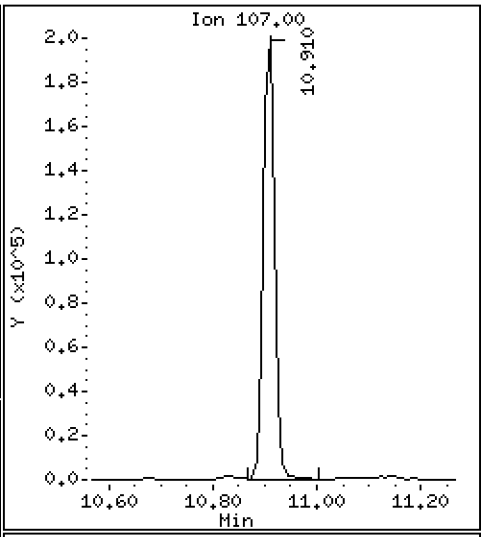
Column phase: ZB-5msi

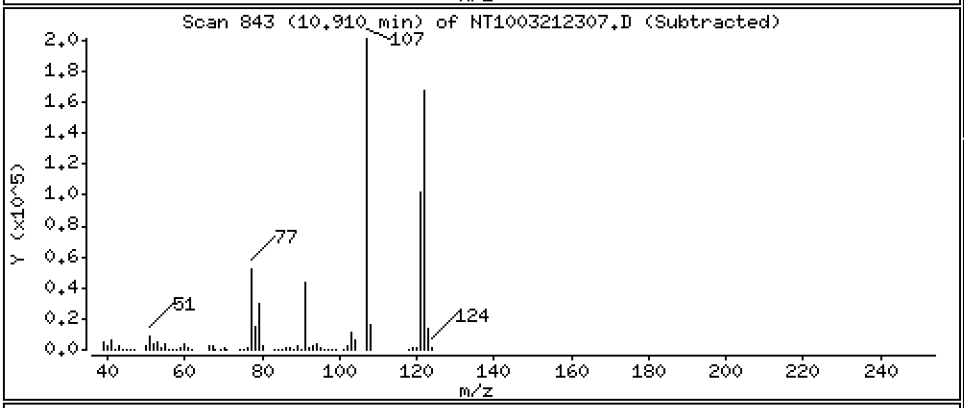
Column diameter: 0.25

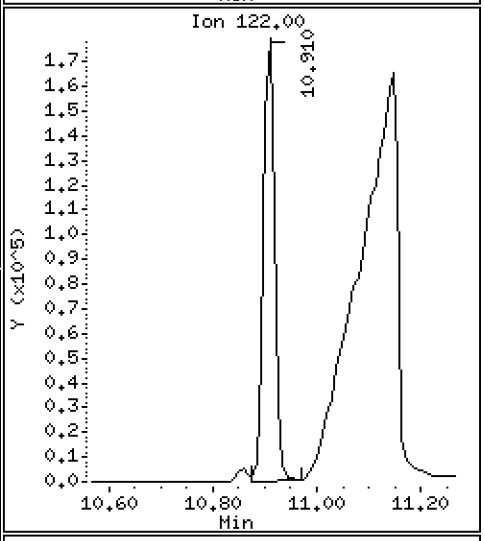
22 2,4-Dimethylphenol

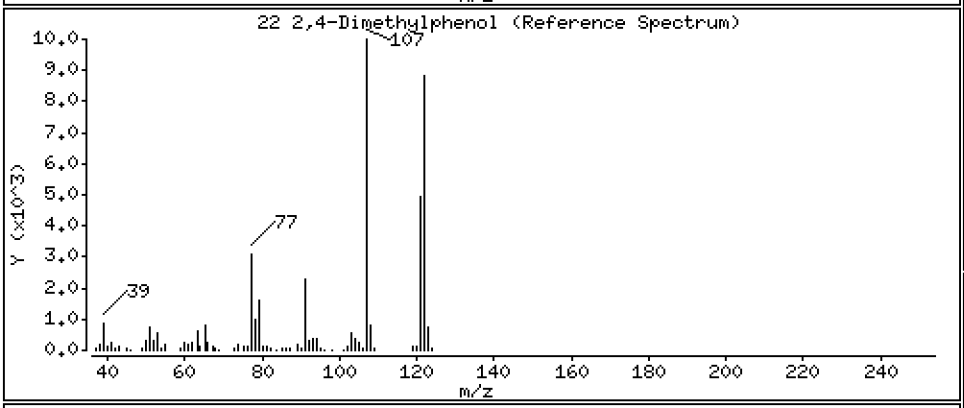
Concentration: 4.557 ug/mL

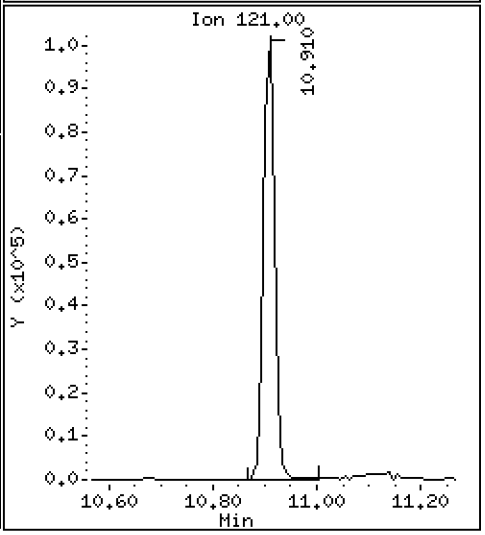


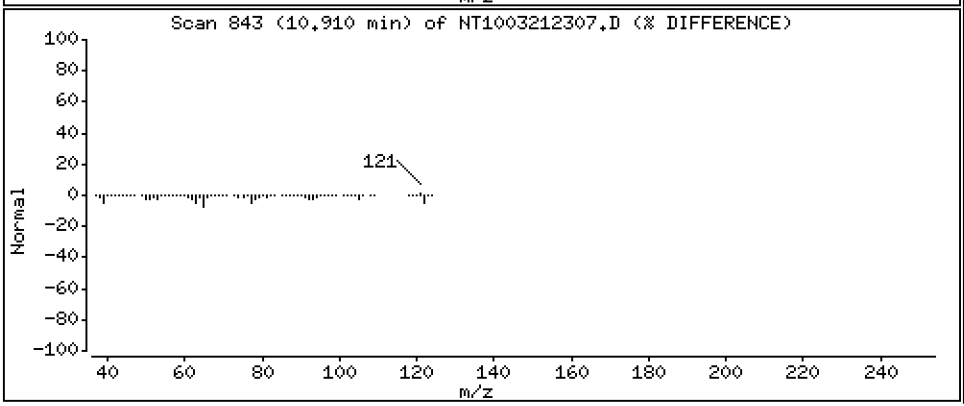












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Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS1

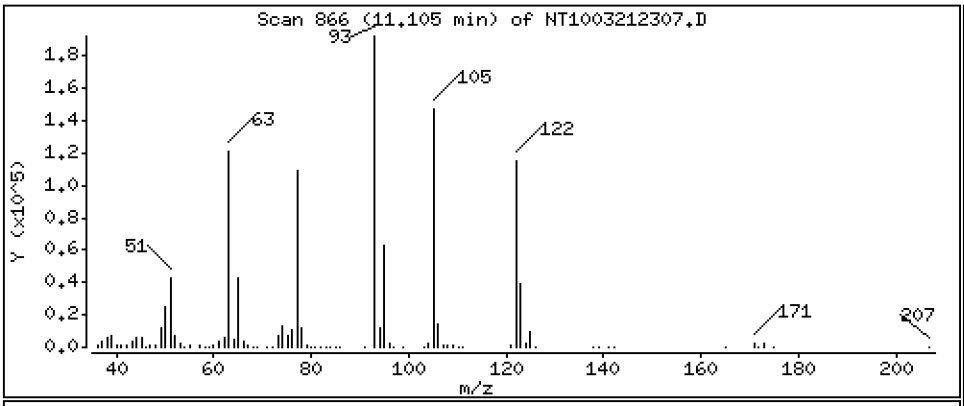
Operator: VTS

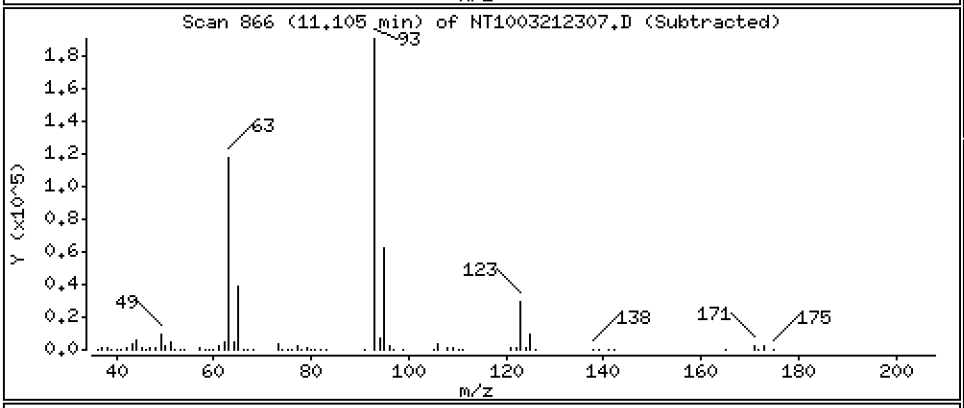
Column phase: ZB-5msi

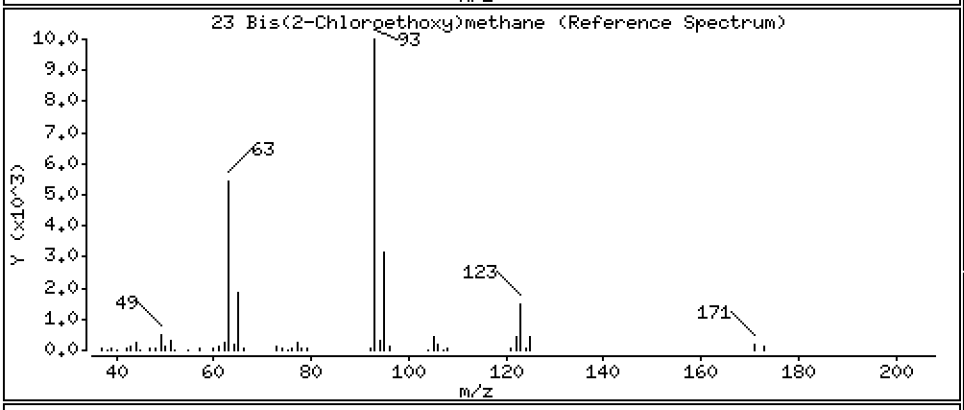
Column diameter: 0.25

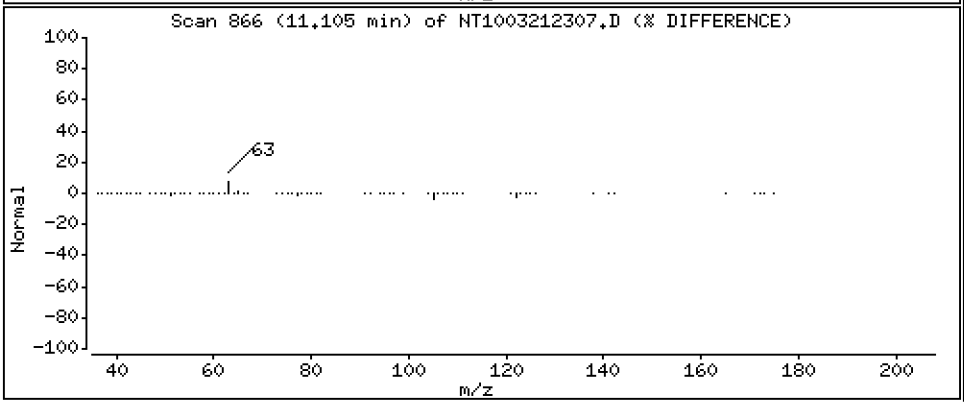
23 Bis(2-Chloroethoxy)methane

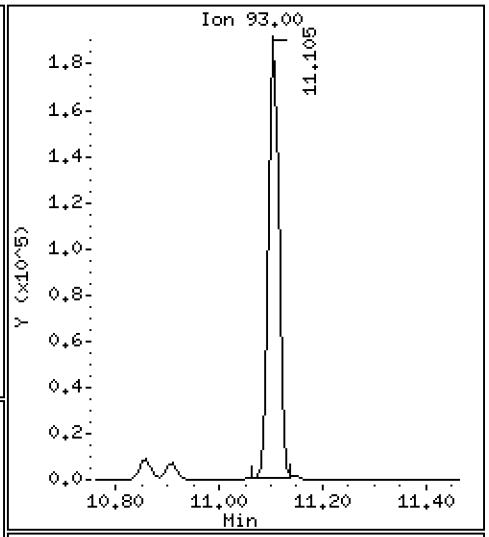
Concentration: 4.311 ug/mL

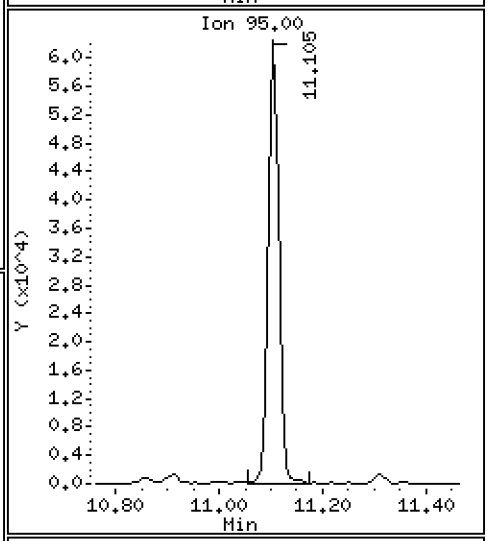


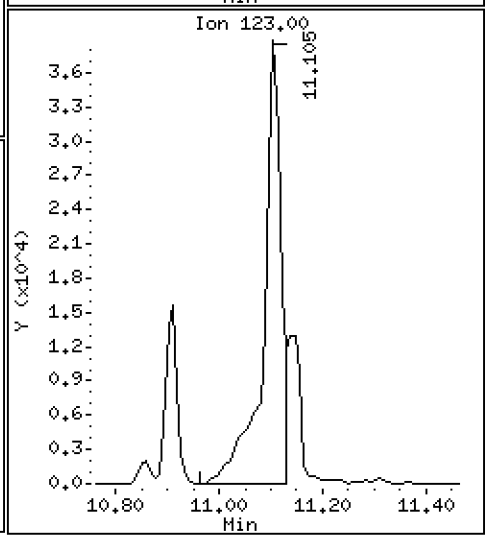












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Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS1

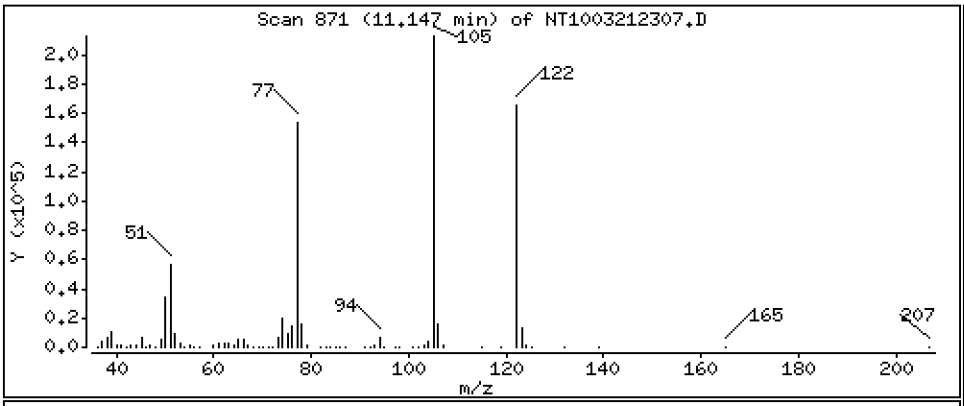
Operator: VTS

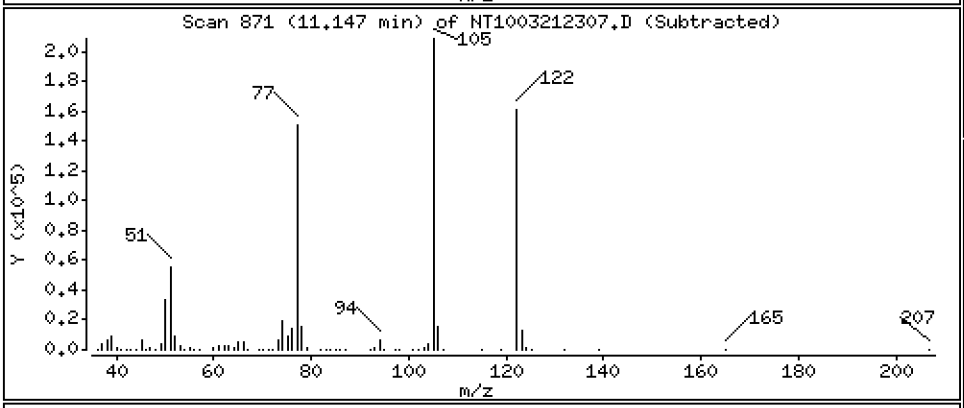
Column phase: ZB-5msi

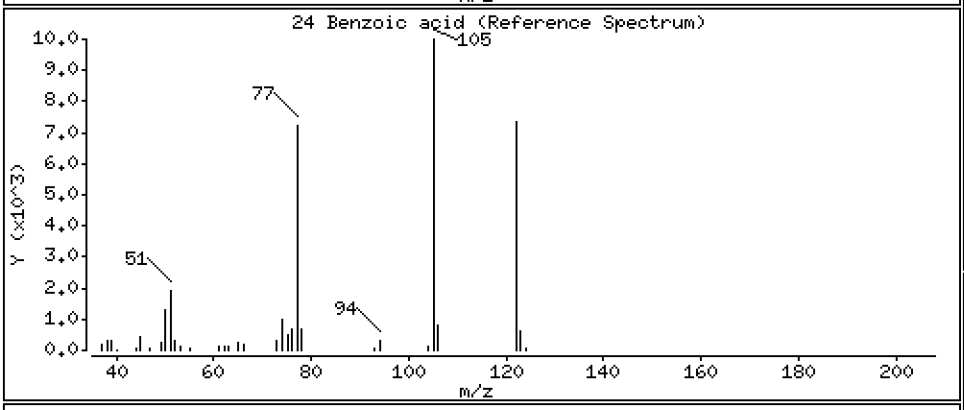
Column diameter: 0.25

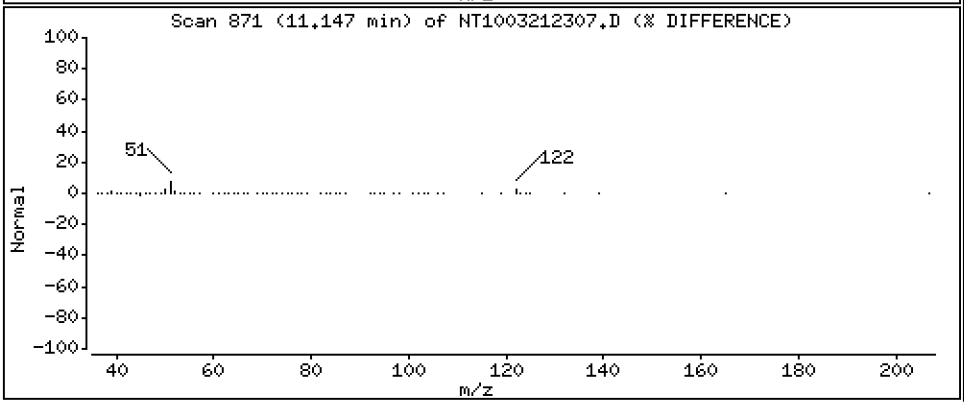
24 Benzoic acid

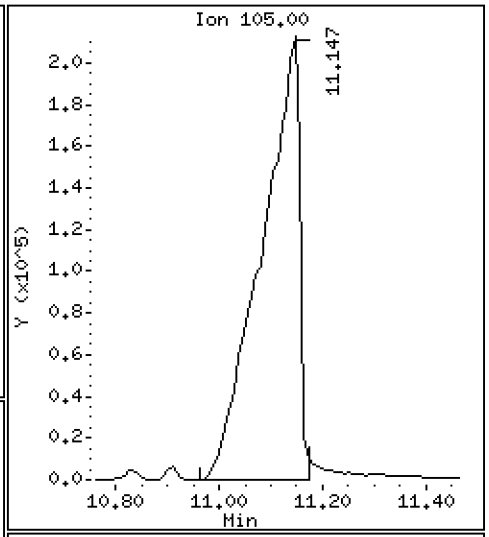
Concentration: 27.39 ug/mL

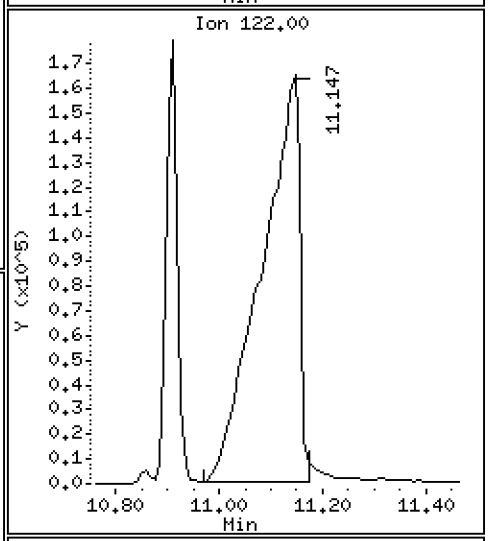


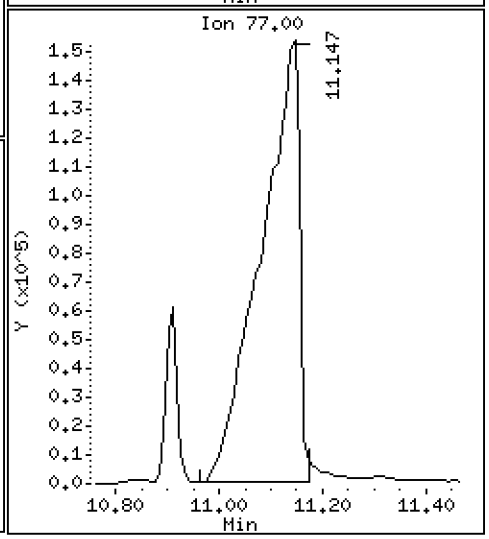












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Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS1

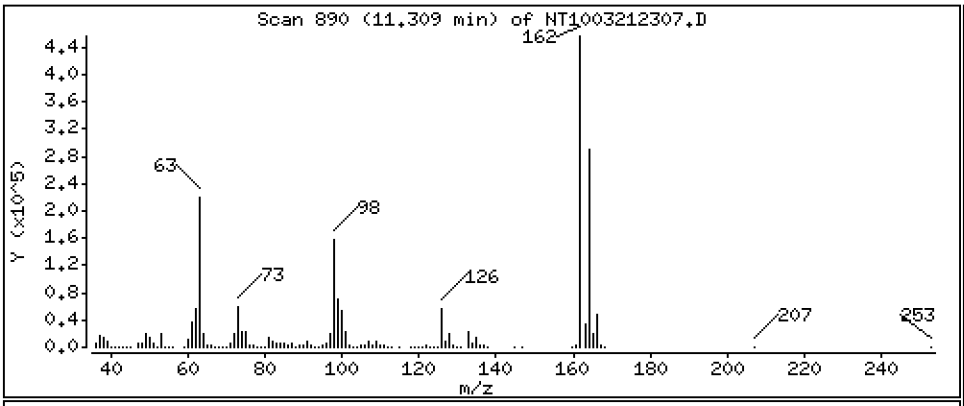
Operator: VTS

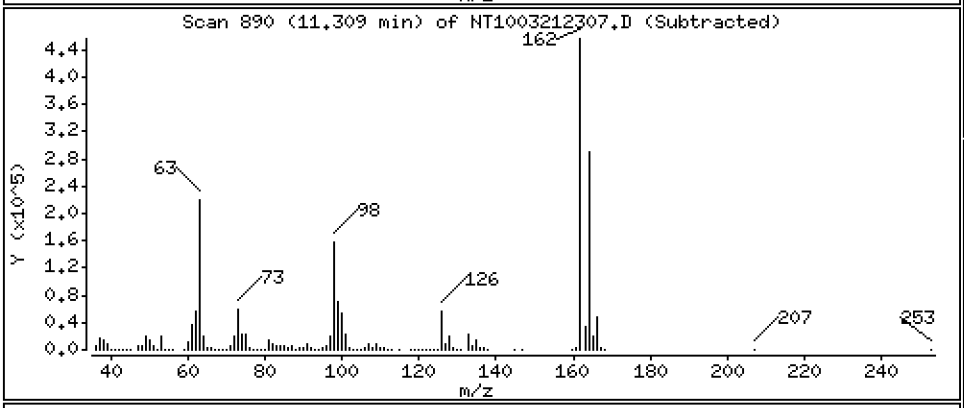
Column phase: ZB-5msi

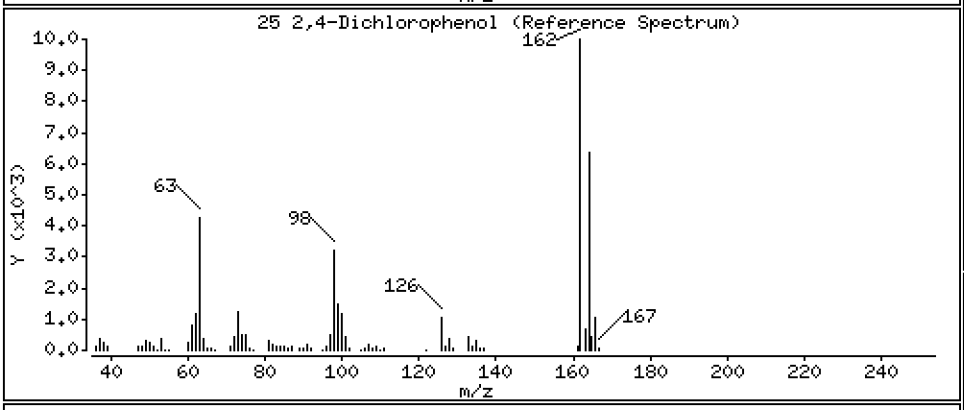
Column diameter: 0.25

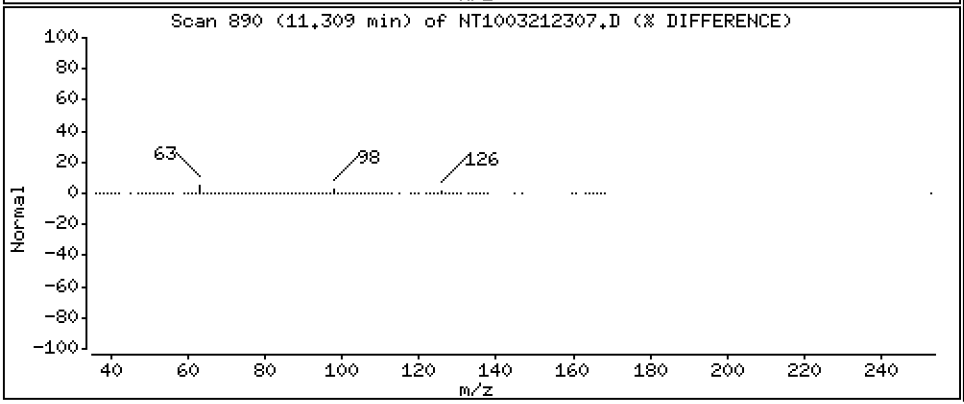
25 2,4-Dichlorophenol

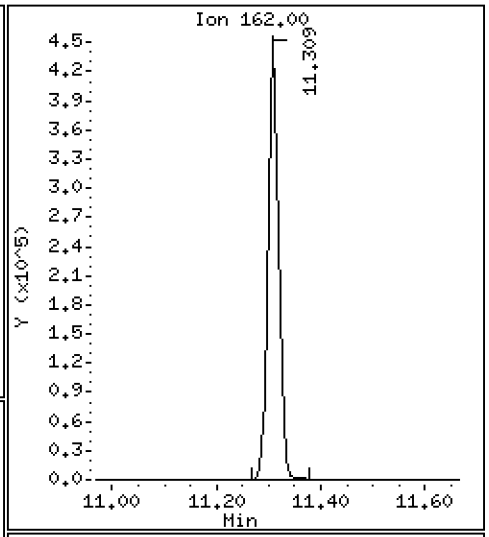
Concentration: 12.39 ug/mL

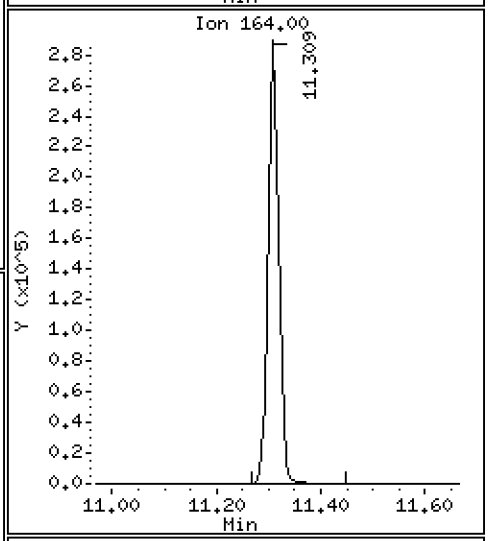


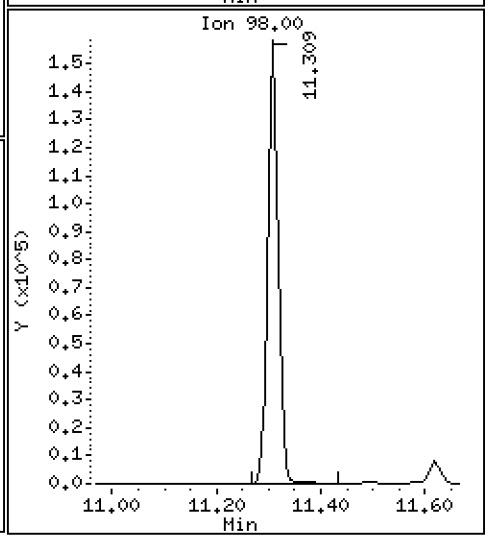












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Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS1

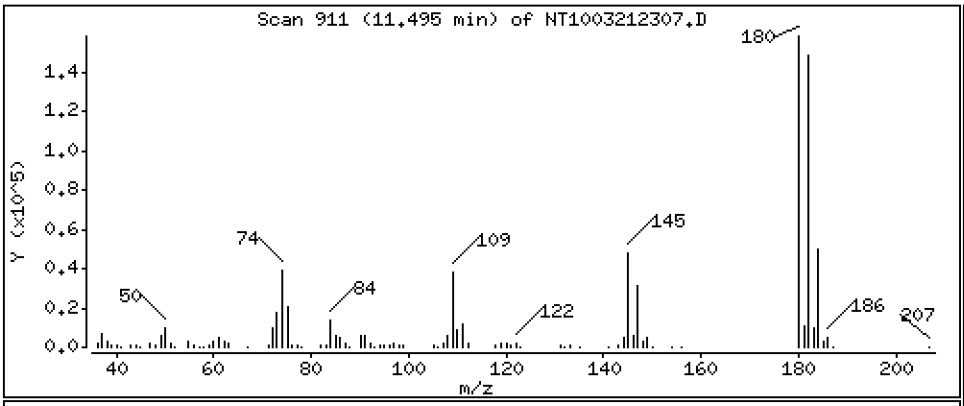
Operator: VTS

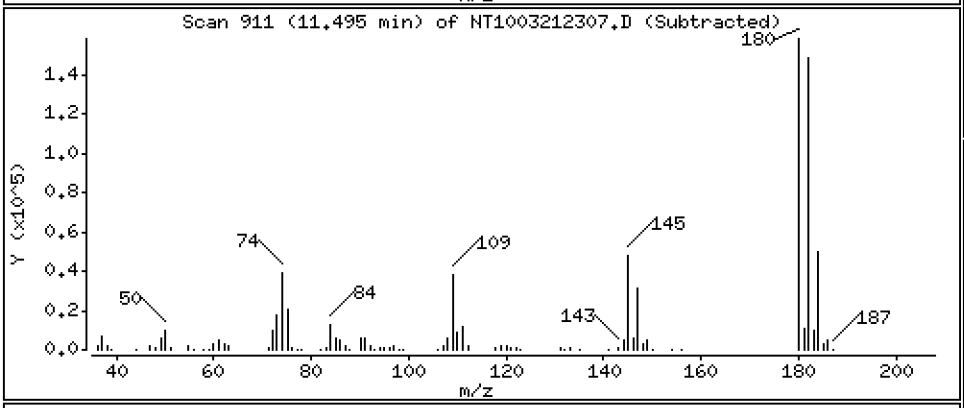
Column phase: ZB-5msi

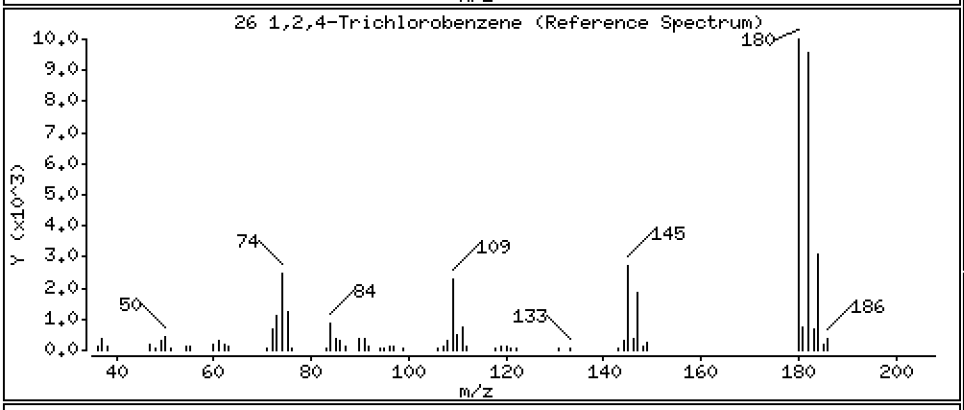
Column diameter: 0.25

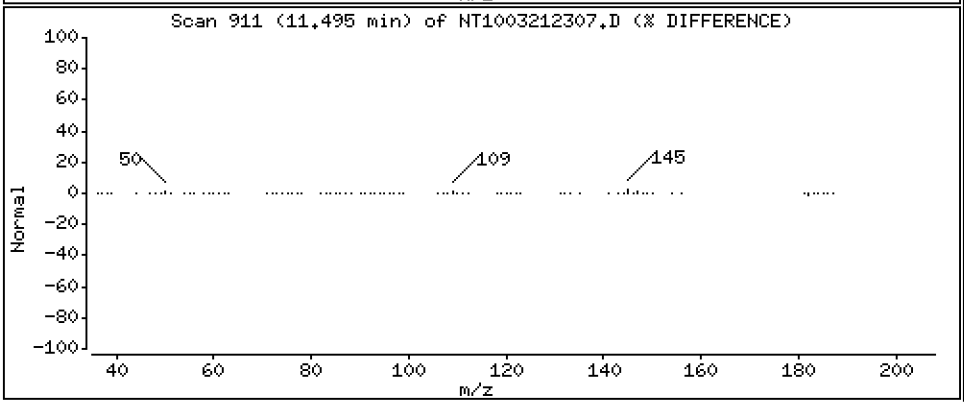
26 1,2,4-Trichlorobenzene

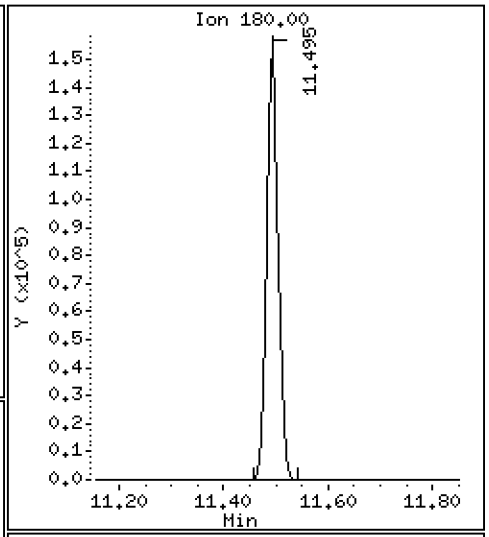
Concentration: 3.671 ug/mL

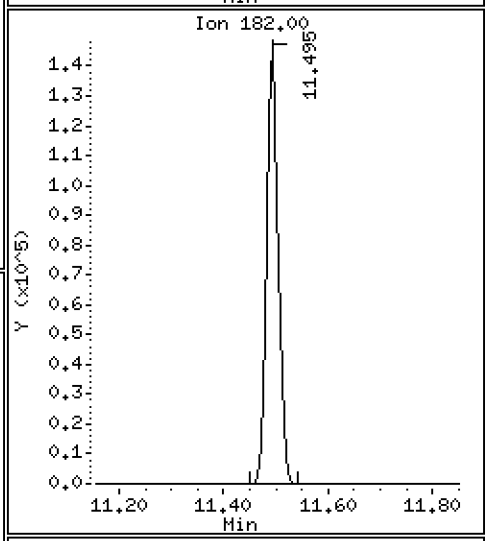


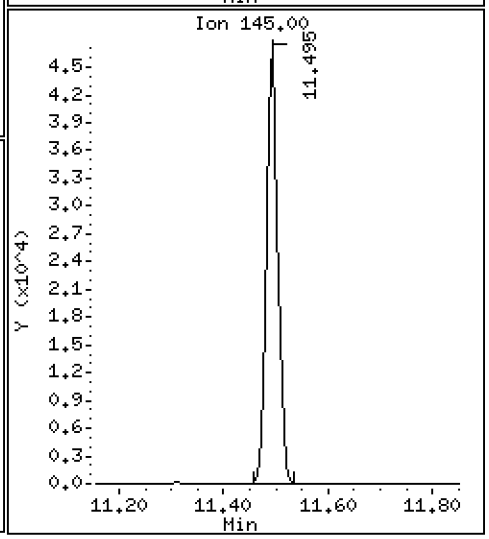












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Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS1

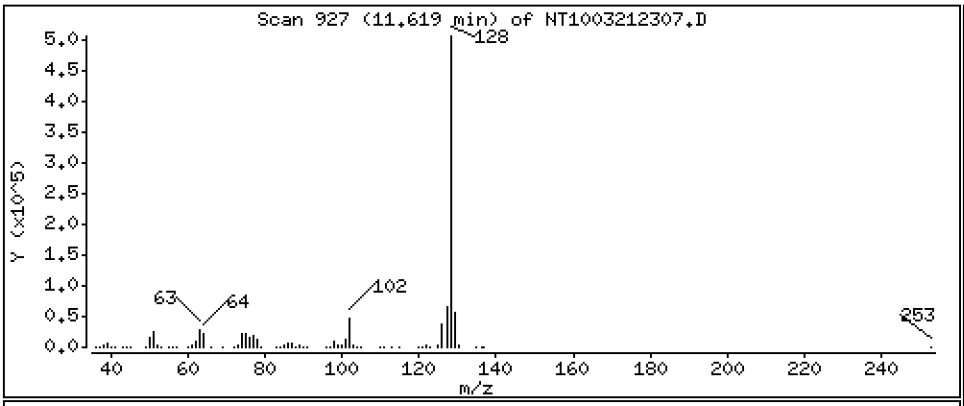
Operator: VTS

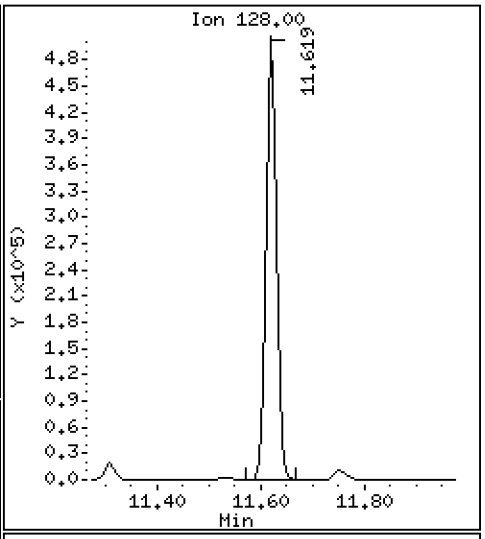
Column phase: ZB-5msi

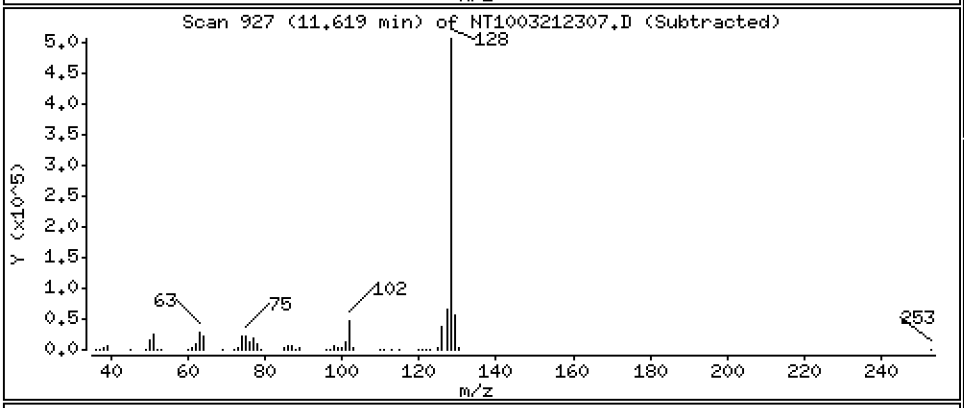
Column diameter: 0.25

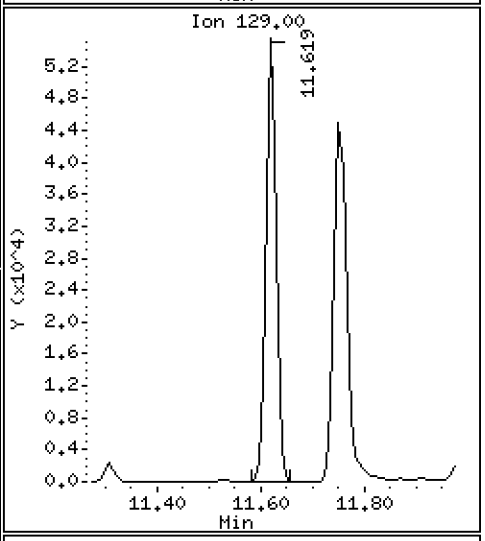
28 Naphthalene

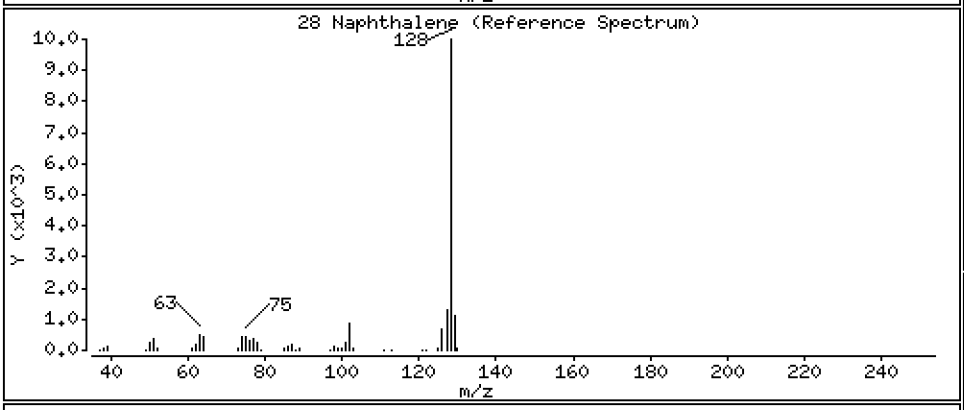
Concentration: 3.756 ug/mL

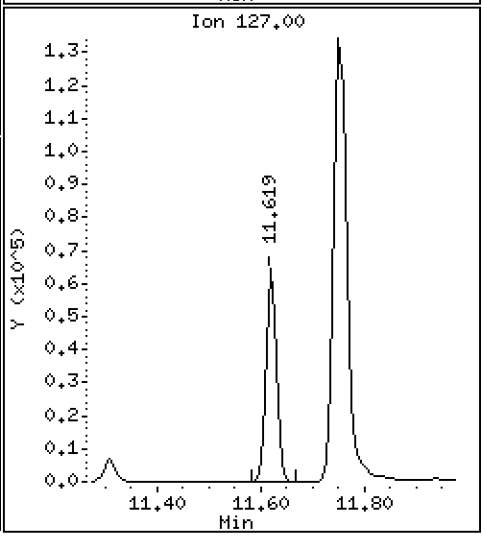


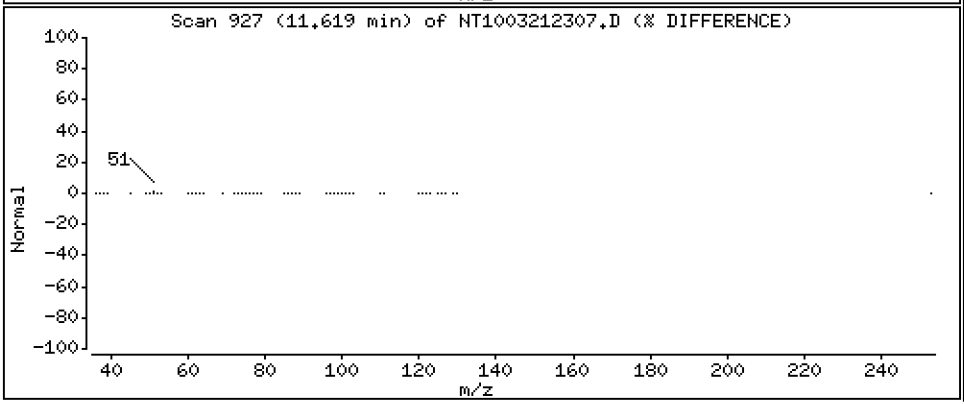












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Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS1

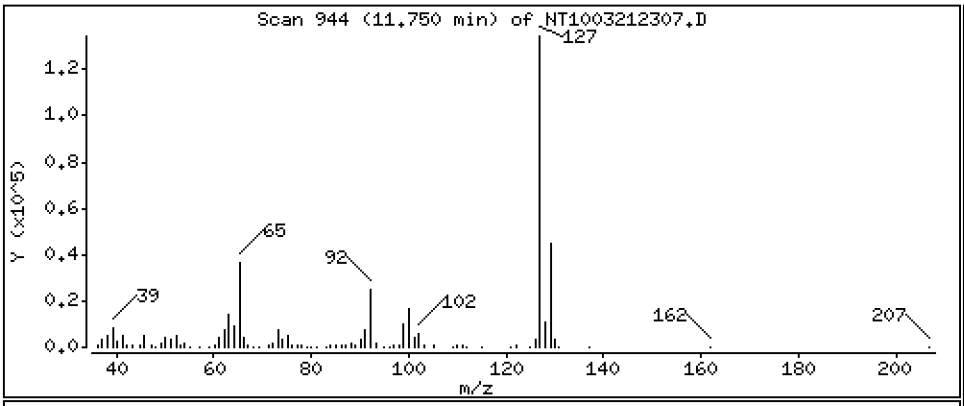
Operator: VTS

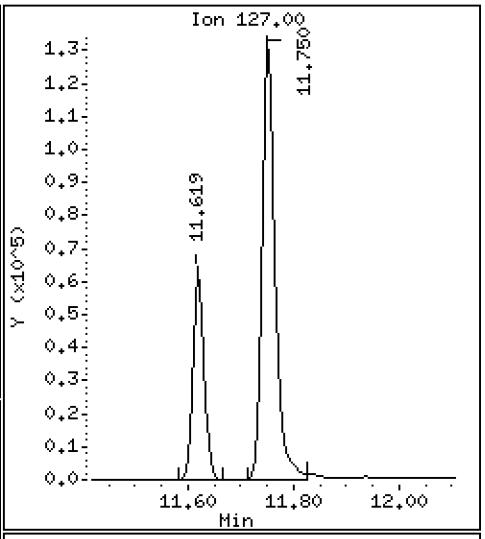
Column phase: ZB-5msi

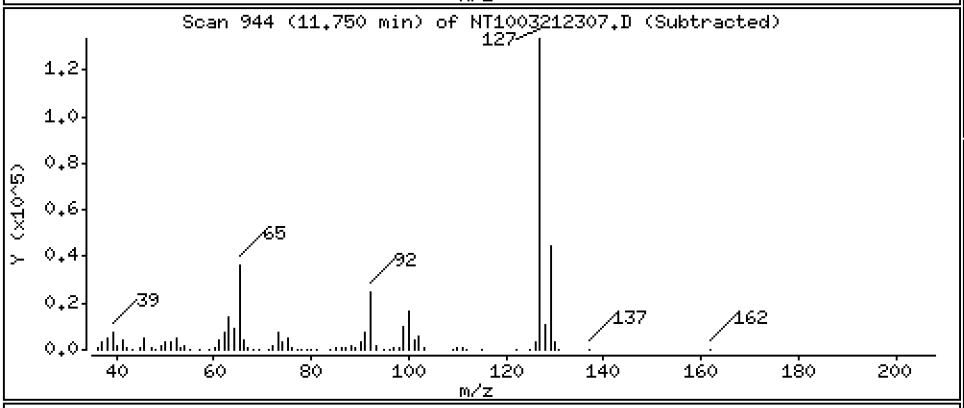
Column diameter: 0.25

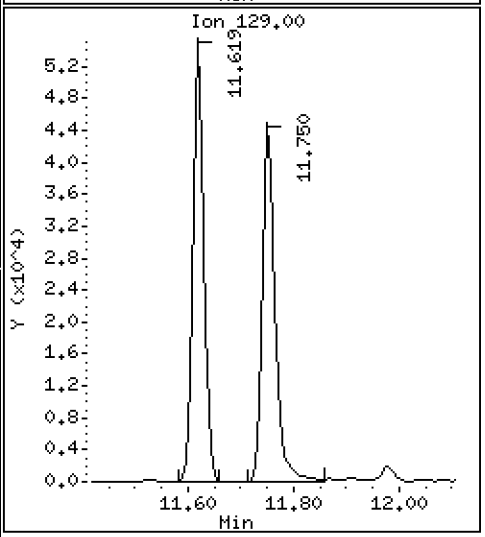
29 4-Chloroaniline

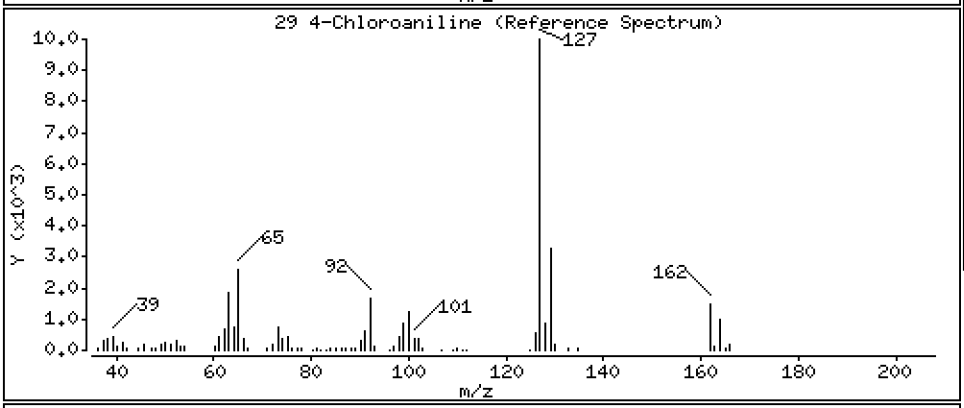
Concentration: 3.005 ug/mL

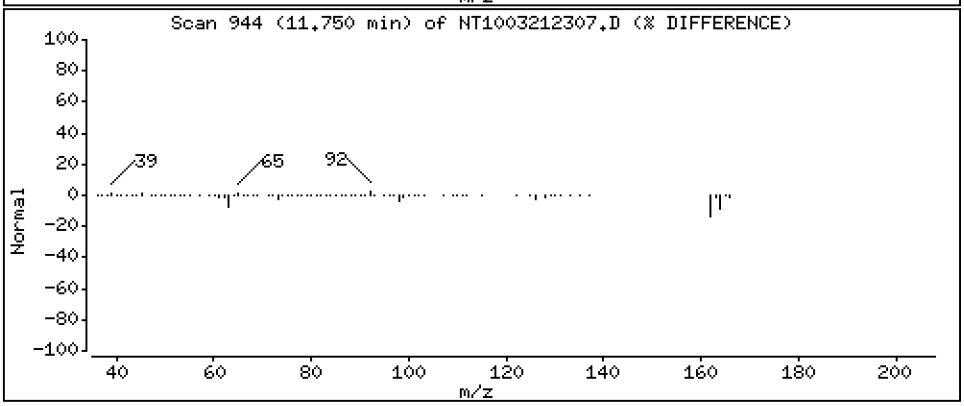












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212307.D

Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS1

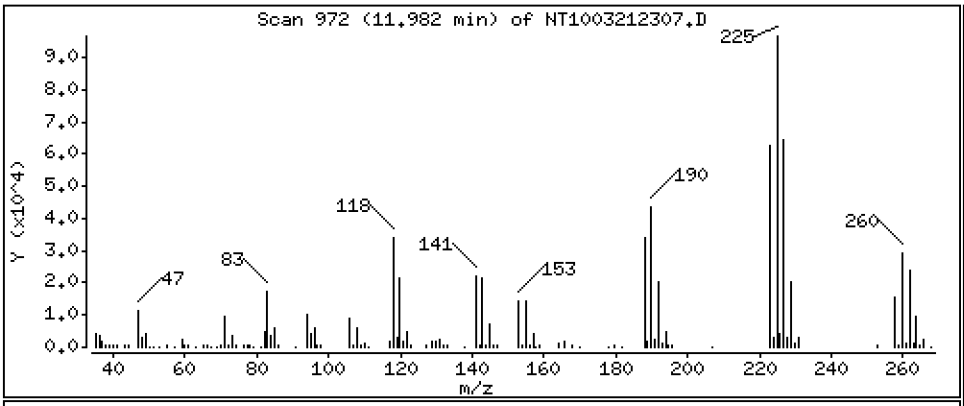
Operator: VTS

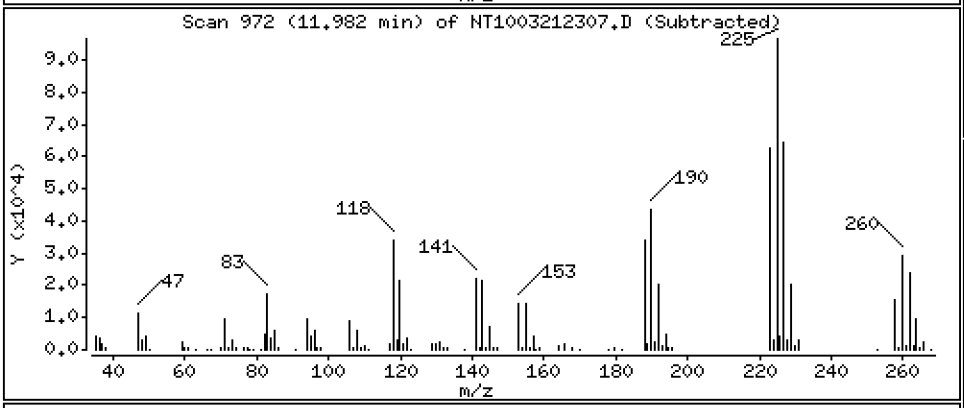
Column phase: ZB-5msi

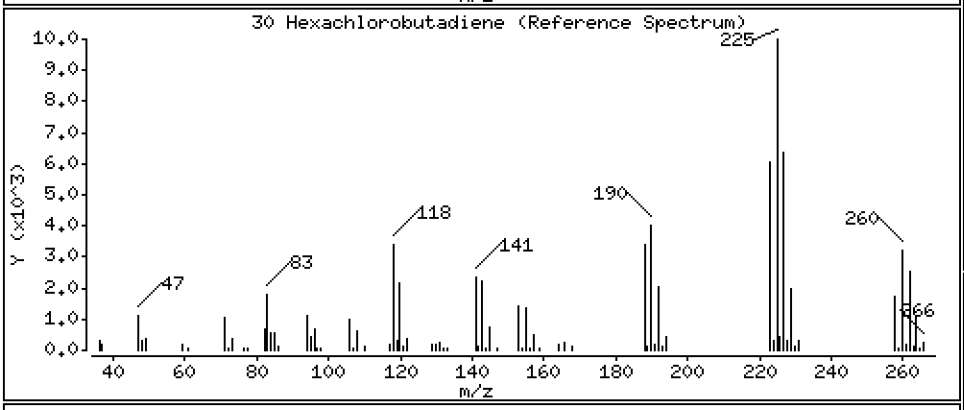
Column diameter: 0.25

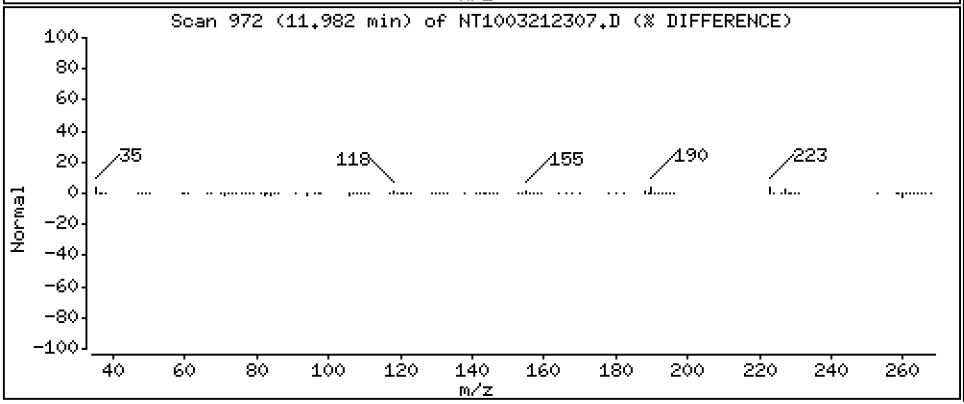
30 Hexachlorobutadiene

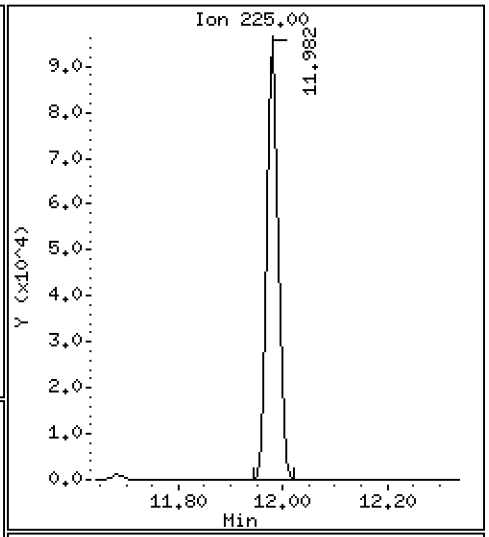
Concentration: 3.905 ug/mL

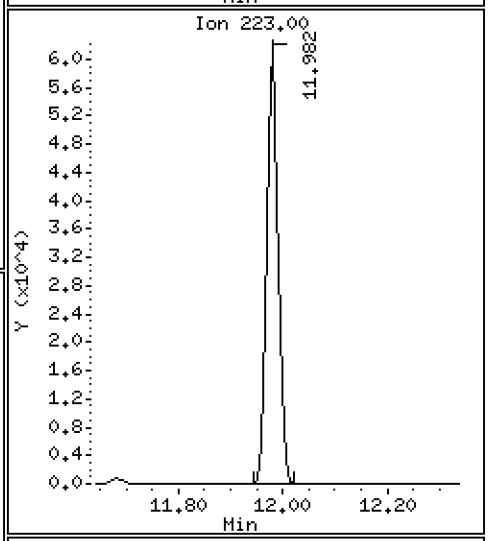


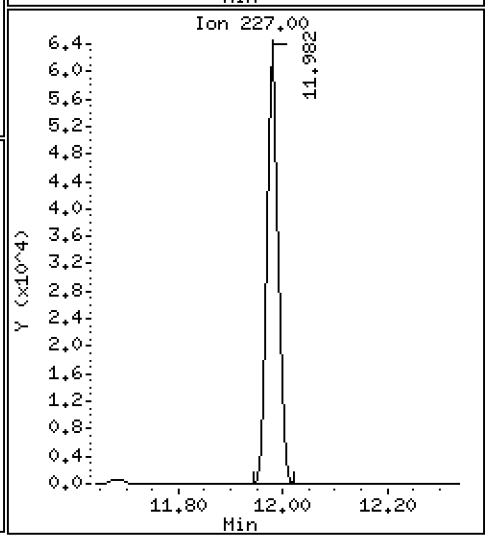












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Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS1

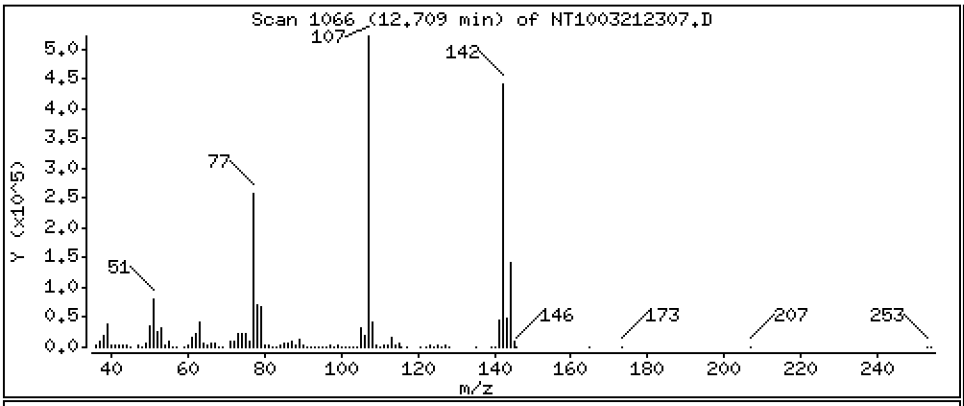
Operator: VTS

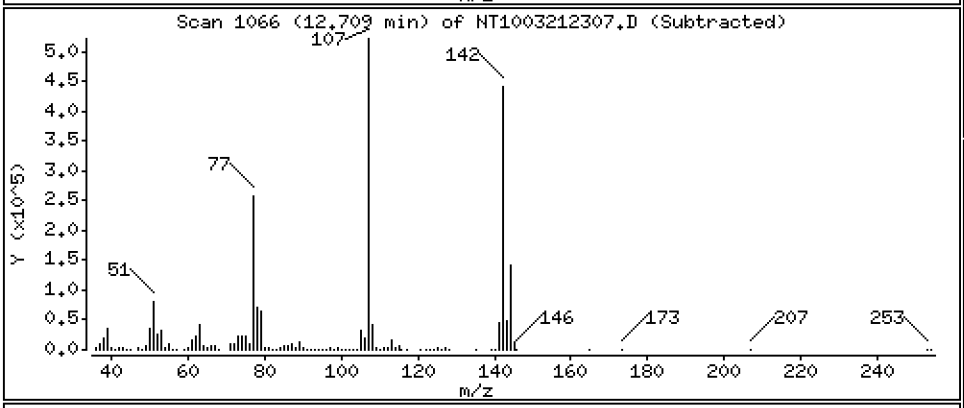
Column phase: ZB-5msi

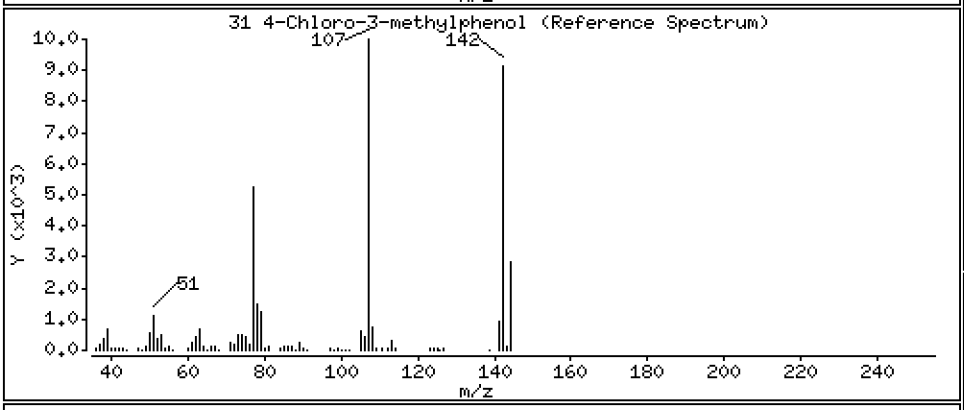
Column diameter: 0.25

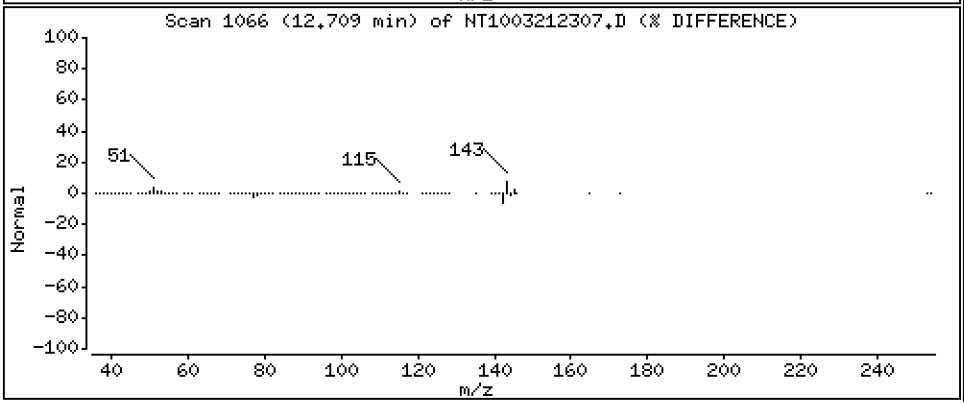
31 4-Chloro-3-methylphenol

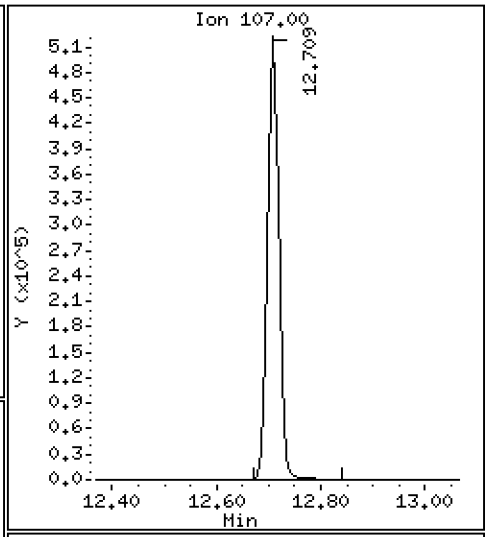
Concentration: 12.67 ug/mL

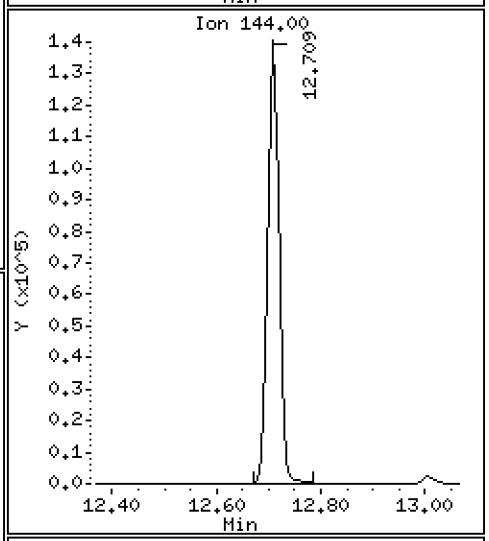


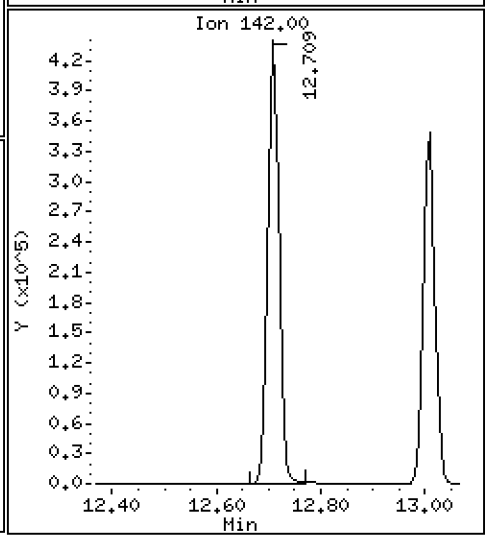












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Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS1

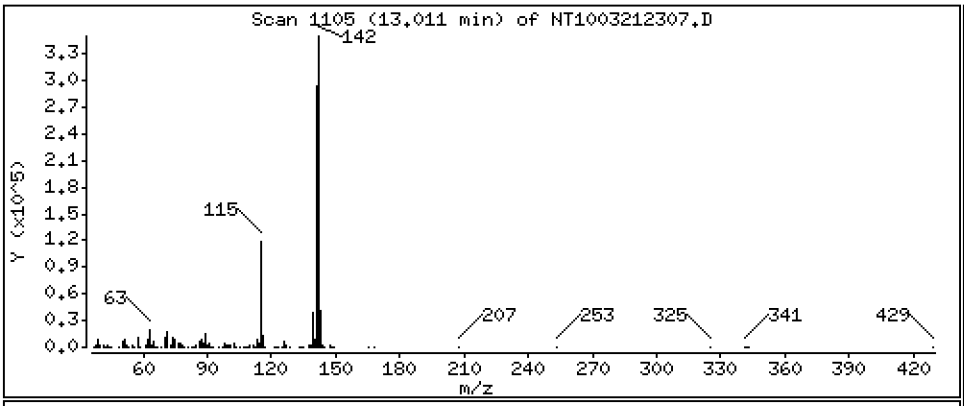
Operator: VTS

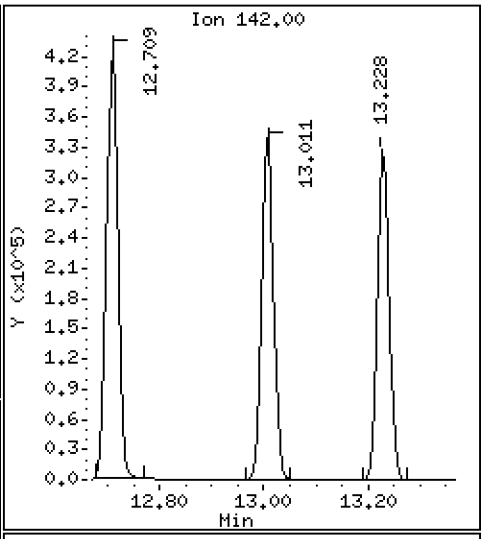
Column phase: ZB-5msi

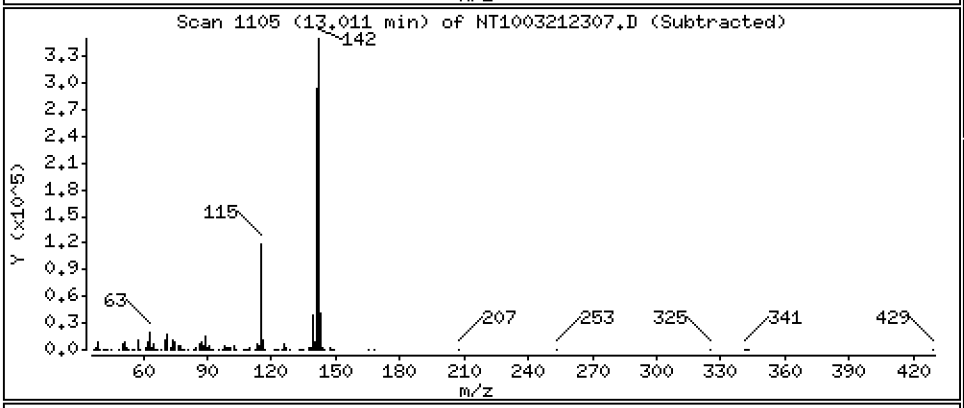
Column diameter: 0.25

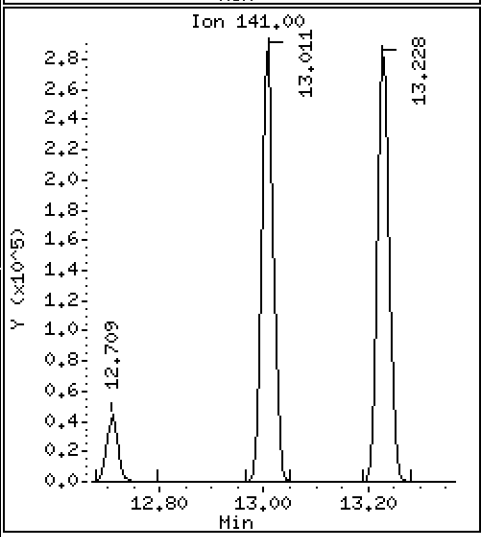
32 2-Methylnaphthalene

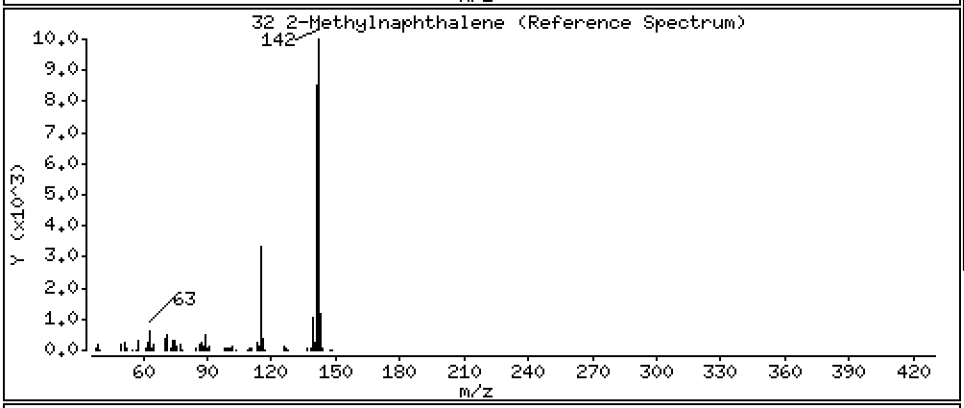
Concentration: 3.803 ug/mL

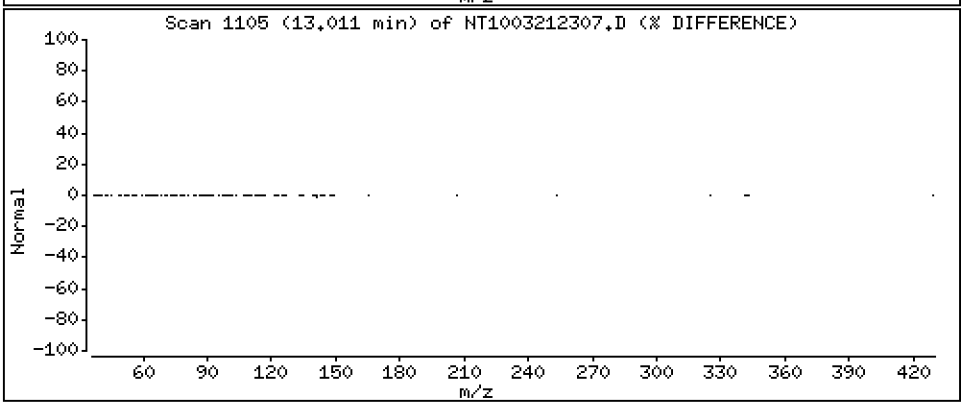












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212307.D

Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS1

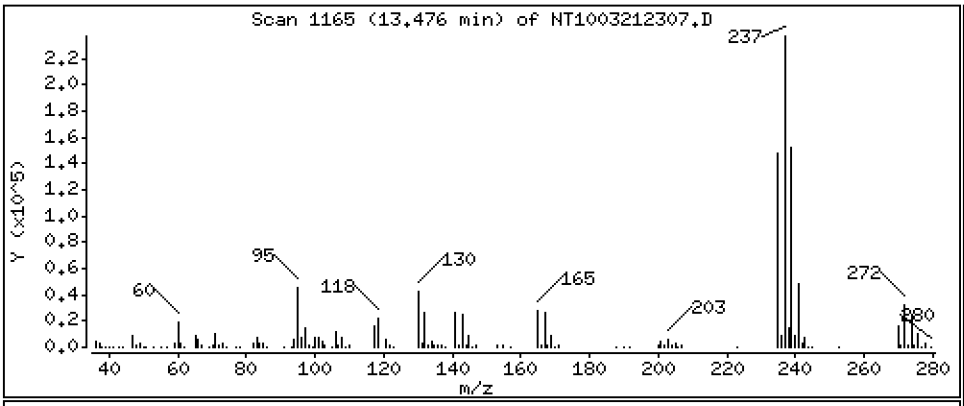
Operator: VTS

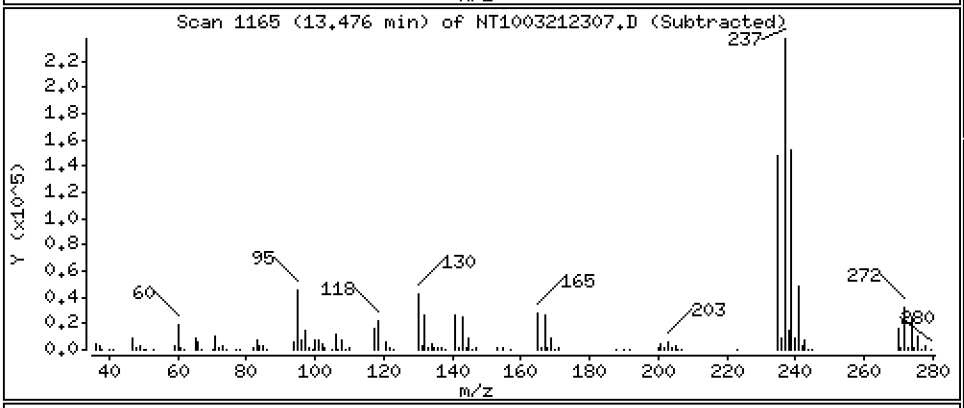
Column phase: ZB-5msi

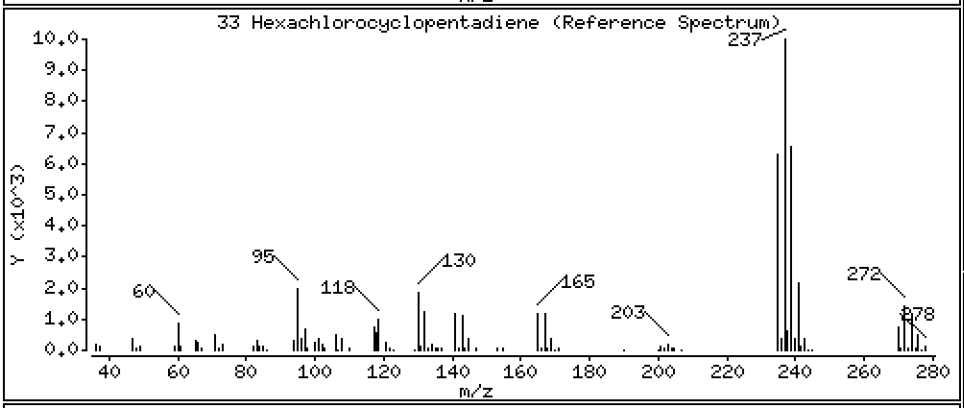
Column diameter: 0.25

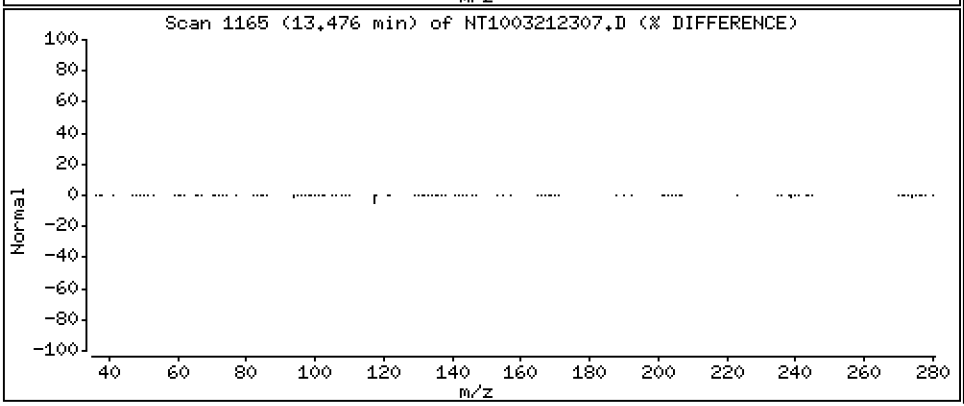
33 Hexachlorocyclopentadiene

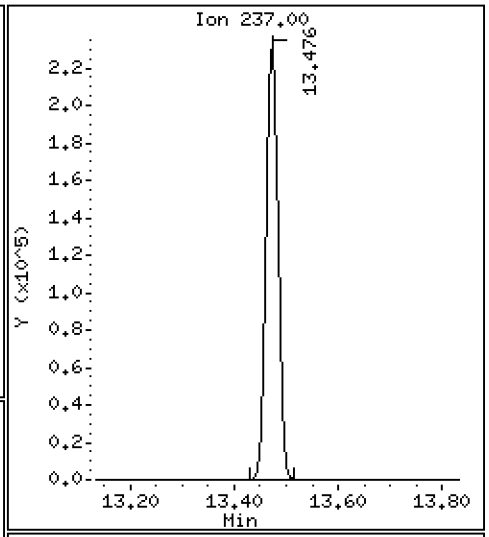
Concentration: 9.112 ug/mL

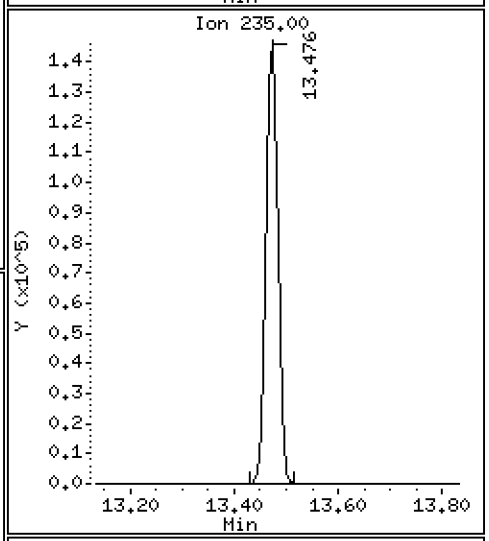


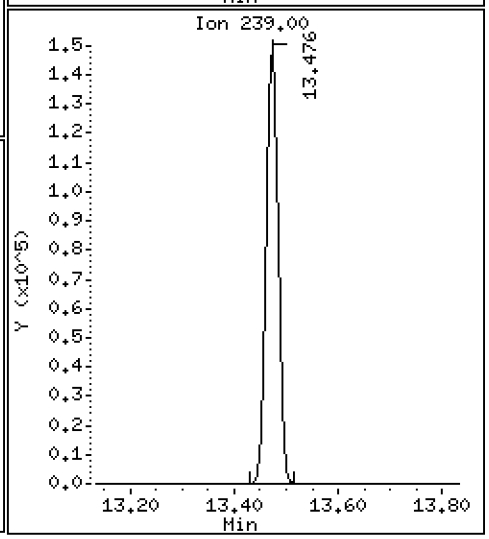












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Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS1

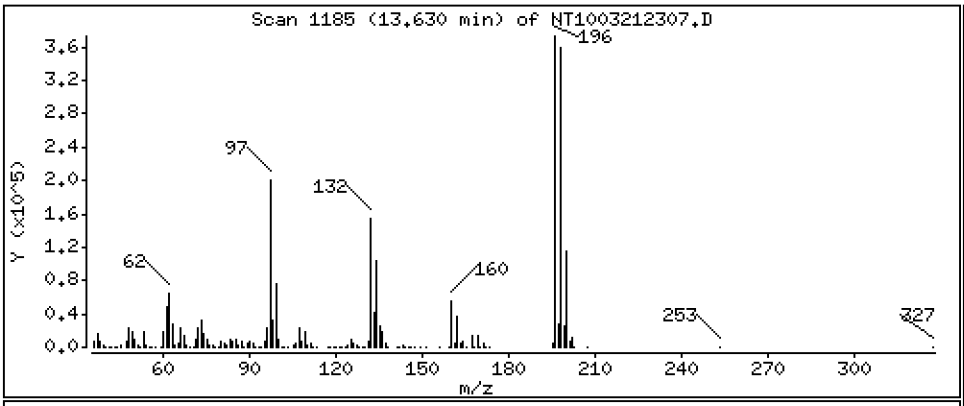
Operator: VTS

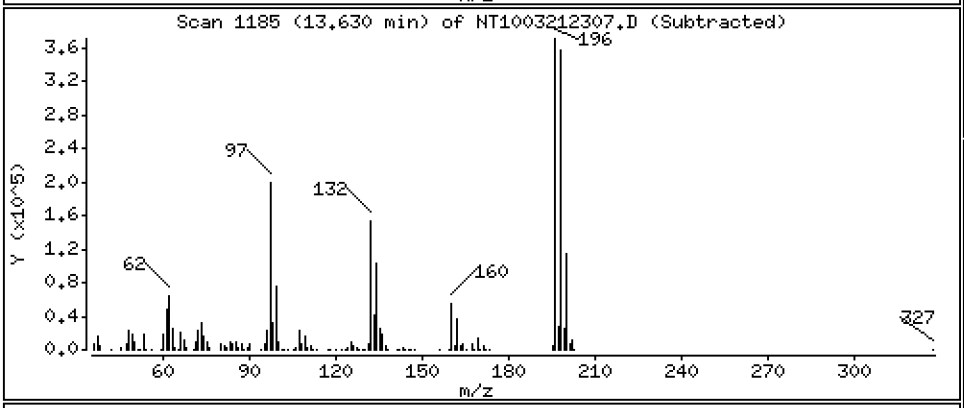
Column phase: ZB-5msi

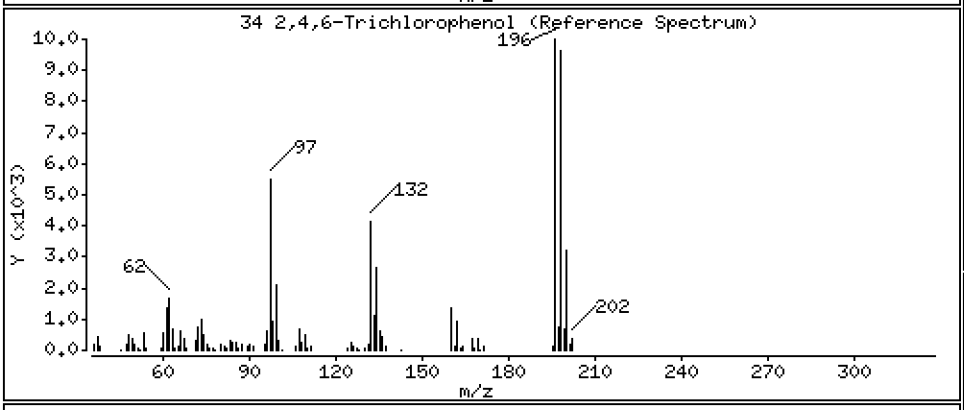
Column diameter: 0.25

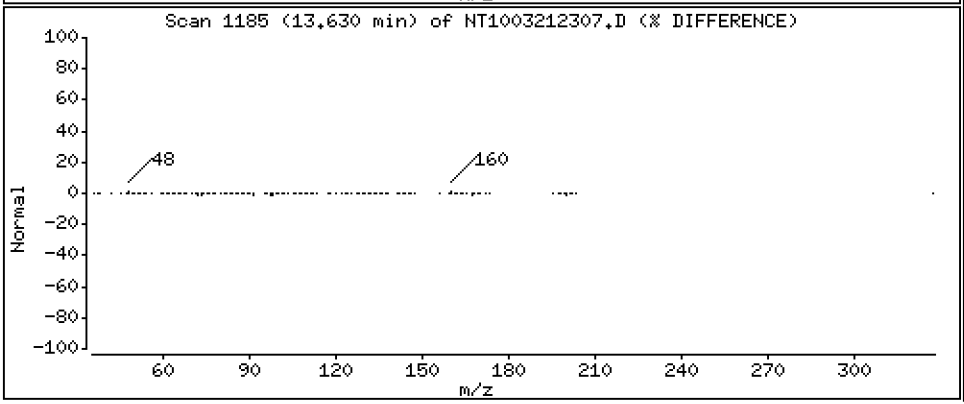
34 2,4,6-Trichlorophenol

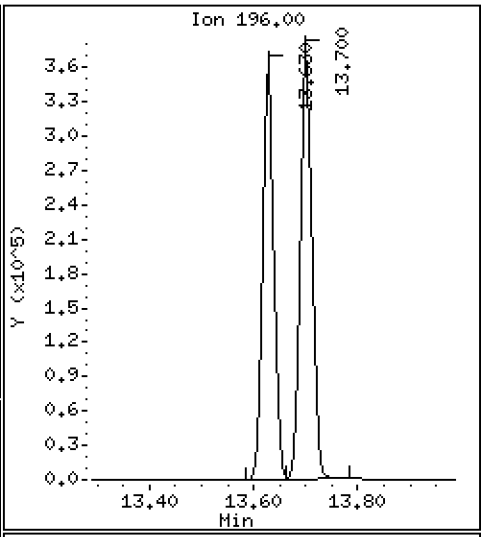
Concentration: 12.87 ug/mL

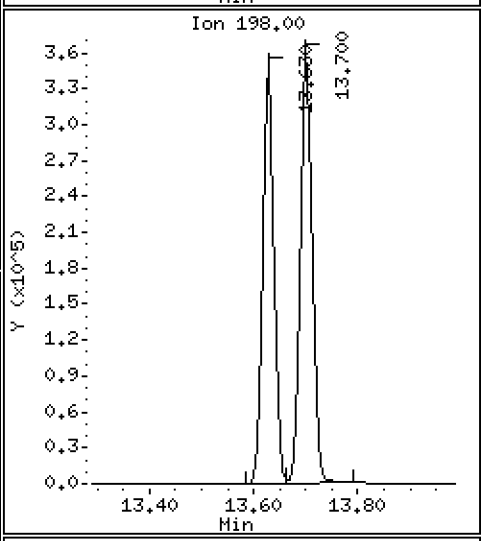


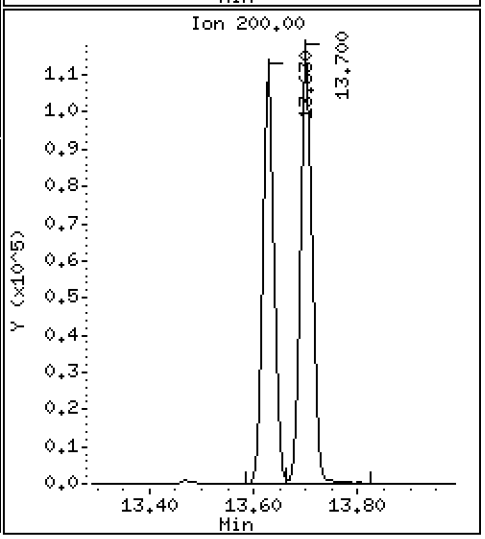












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Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS1

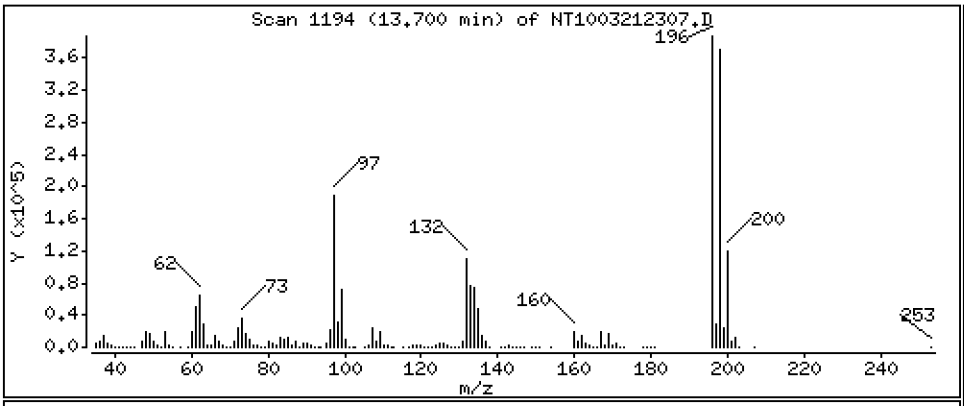
Operator: VTS

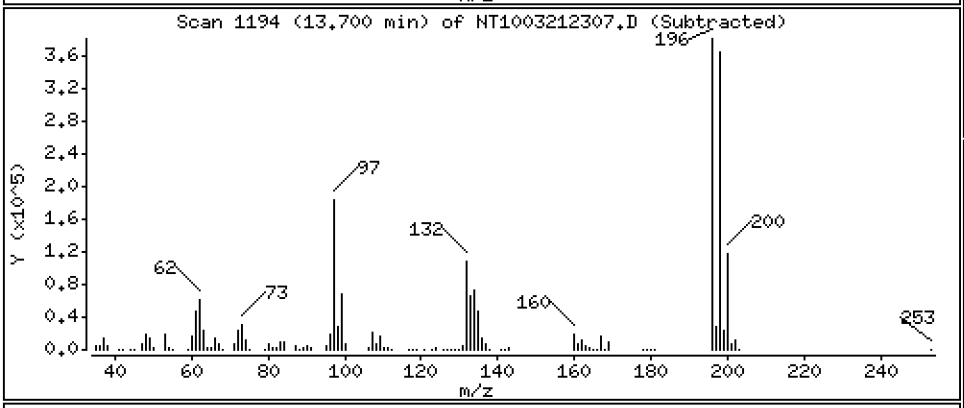
Column phase: ZB-5msi

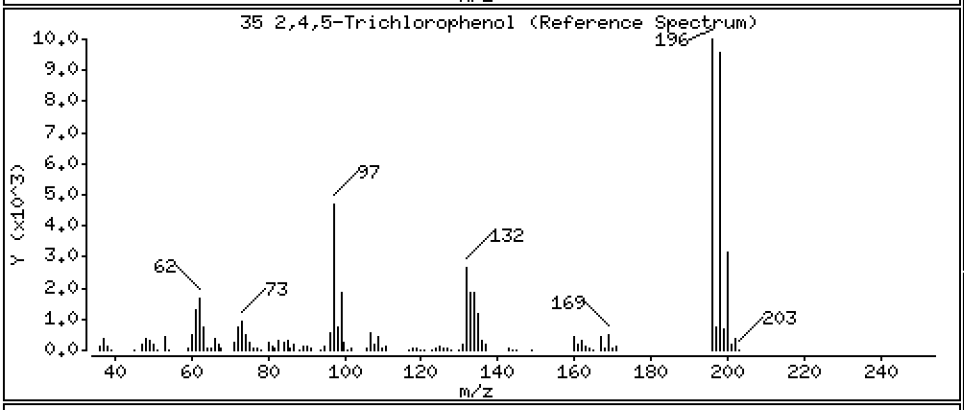
Column diameter: 0.25

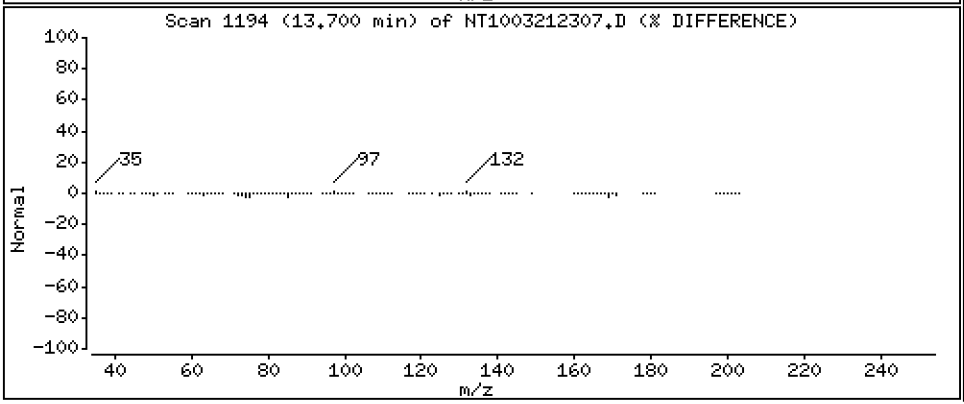
35 2,4,5-Trichlorophenol

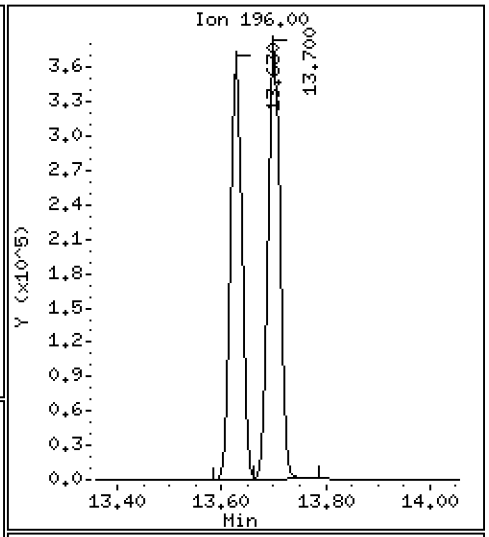
Concentration: 12.44 ug/mL

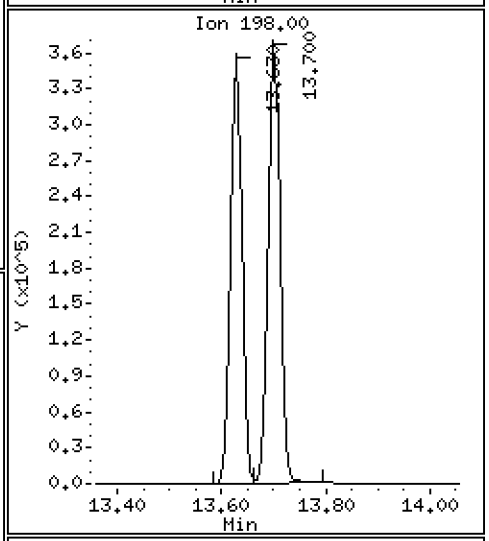


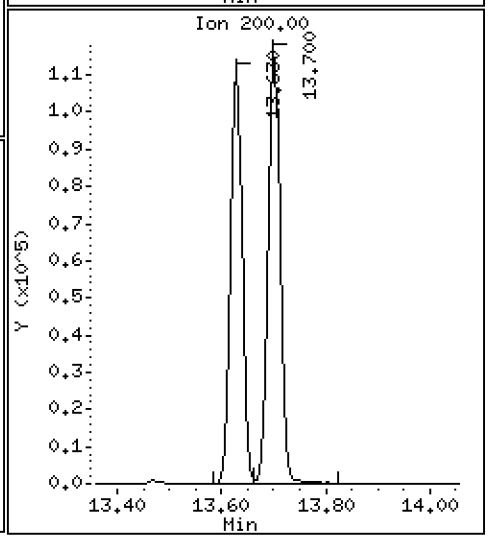












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Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS1

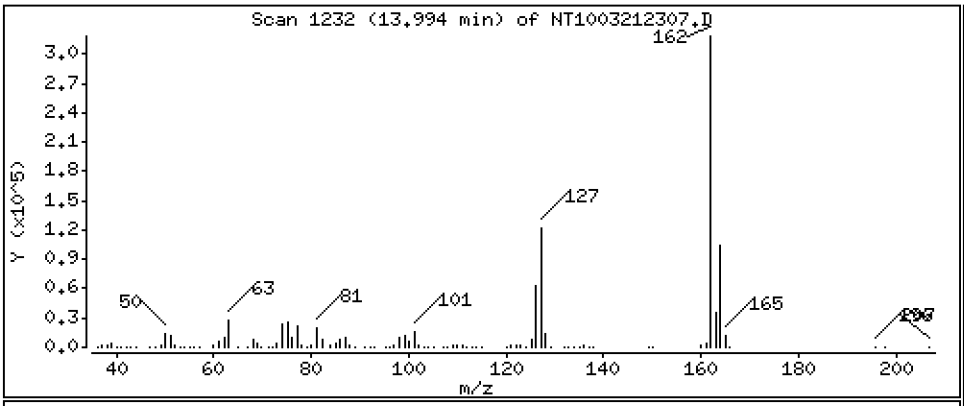
Operator: VTS

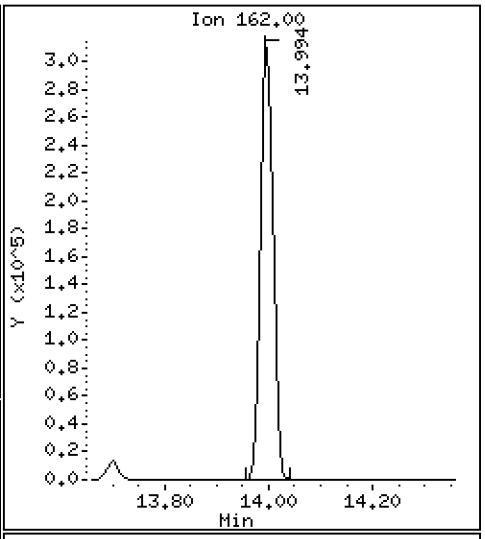
Column phase: ZB-5msi

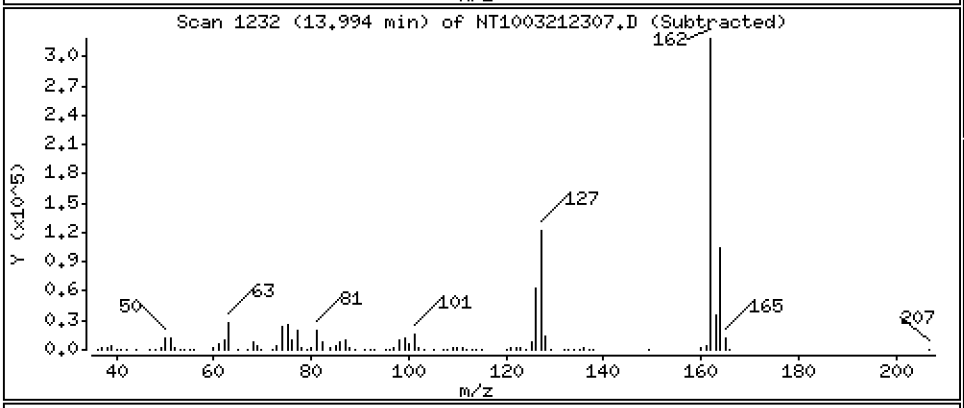
Column diameter: 0.25

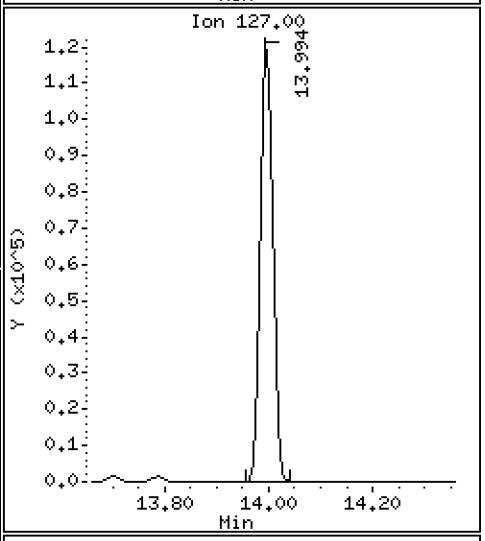
37 2-Chloronaphthalene

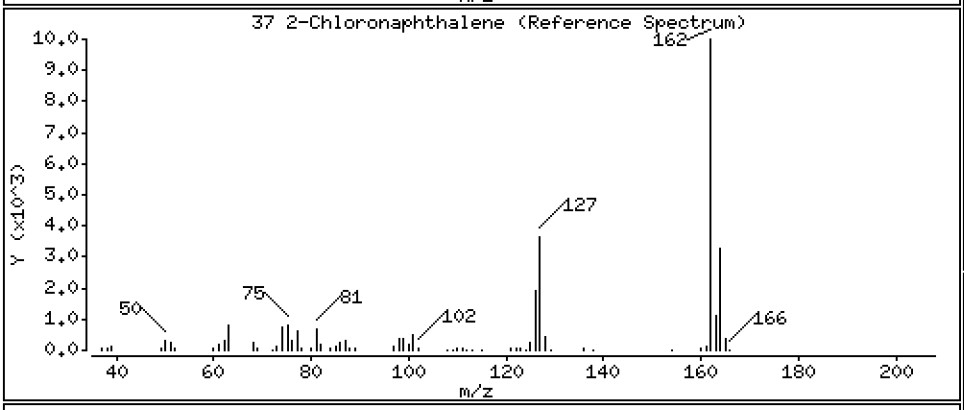
Concentration: 3.796 ug/mL

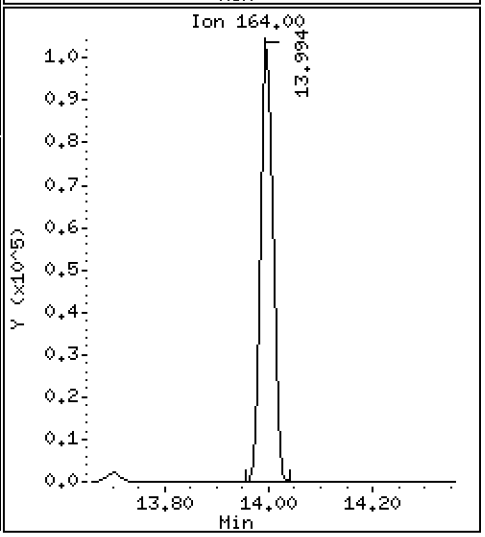


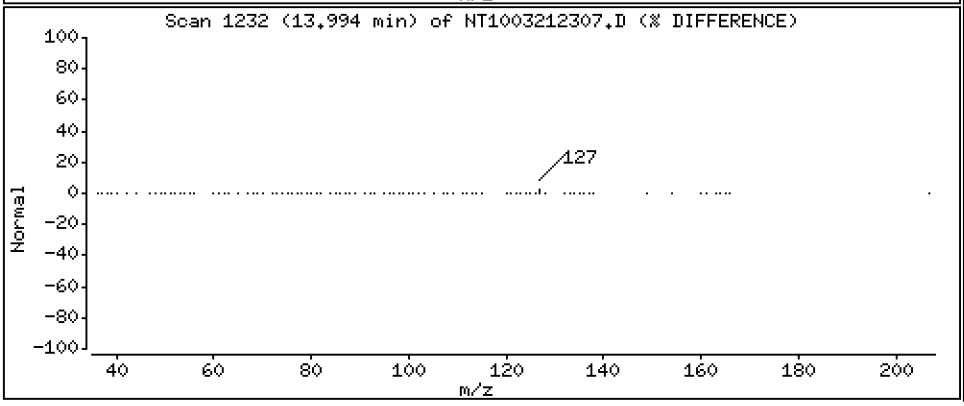












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Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS1

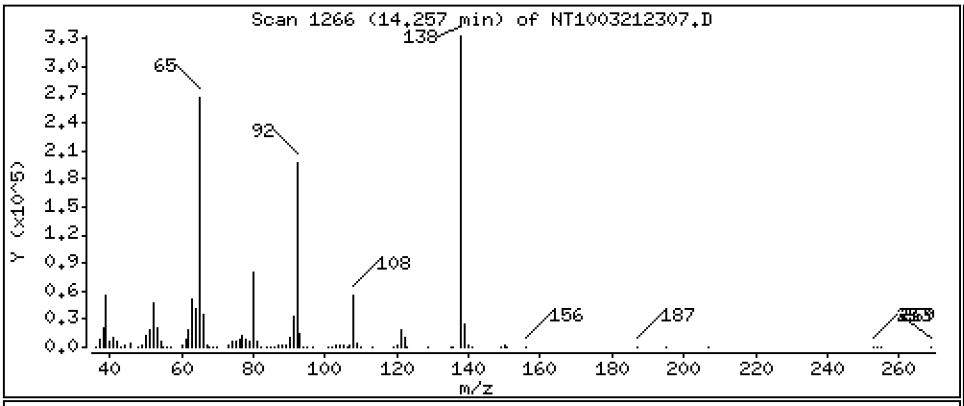
Operator: VTS

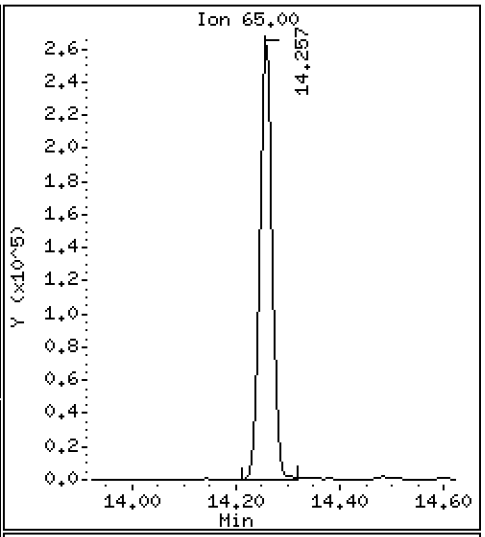
Column phase: ZB-5msi

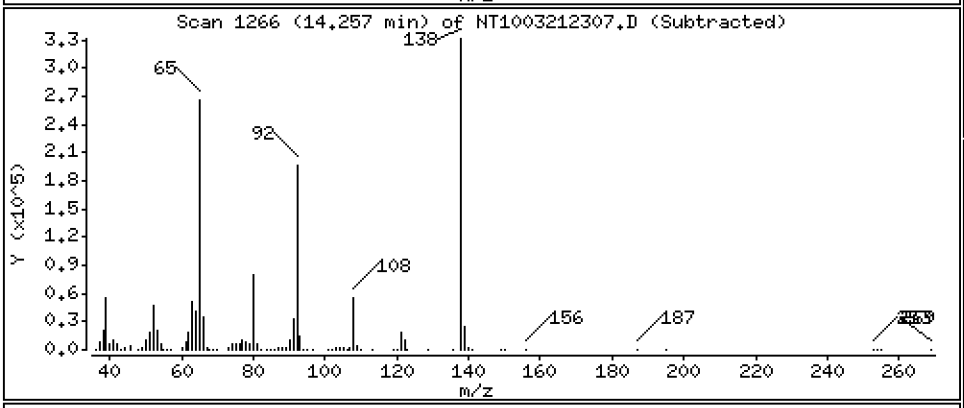
Column diameter: 0.25

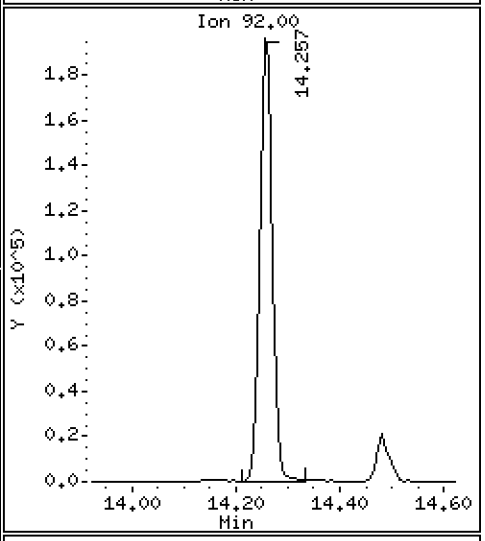
38 2-Nitroaniline

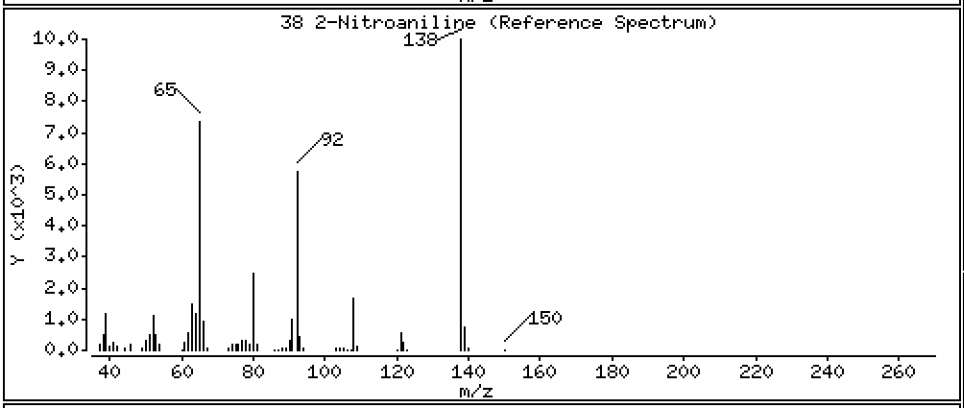
Concentration: 11.69 ug/mL

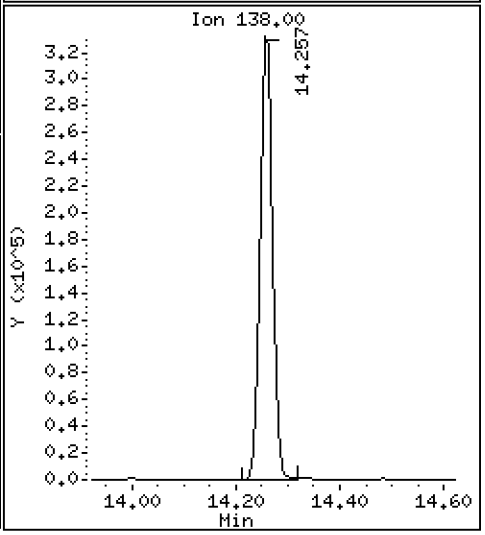


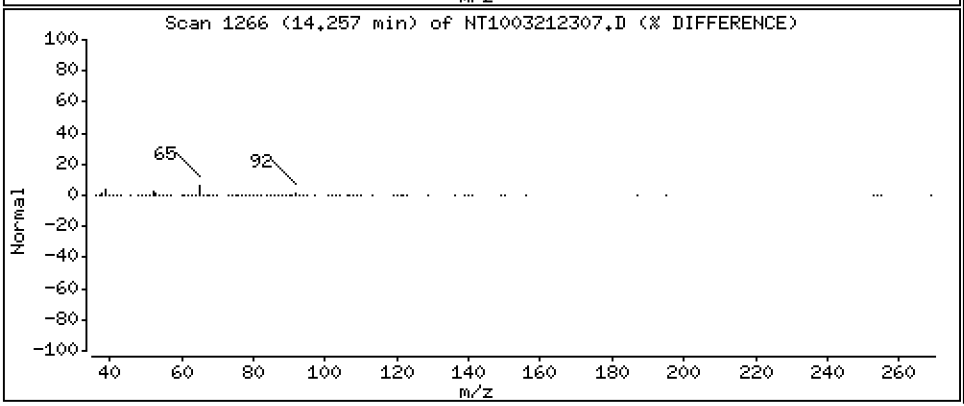












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Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS1

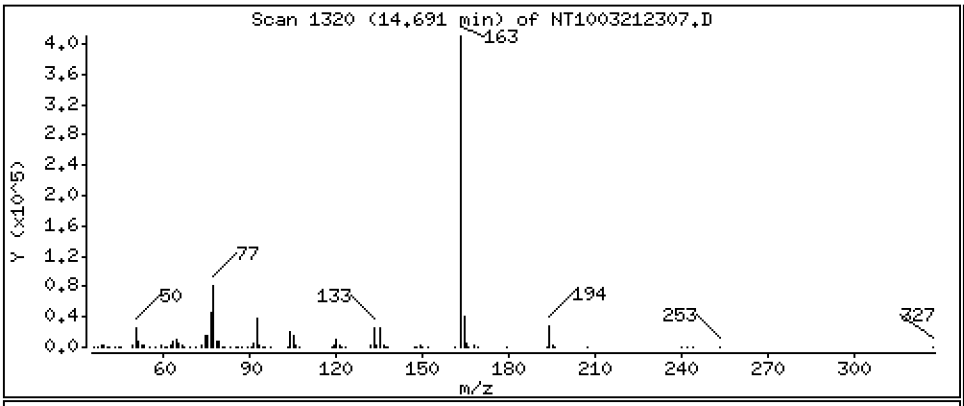
Operator: VTS

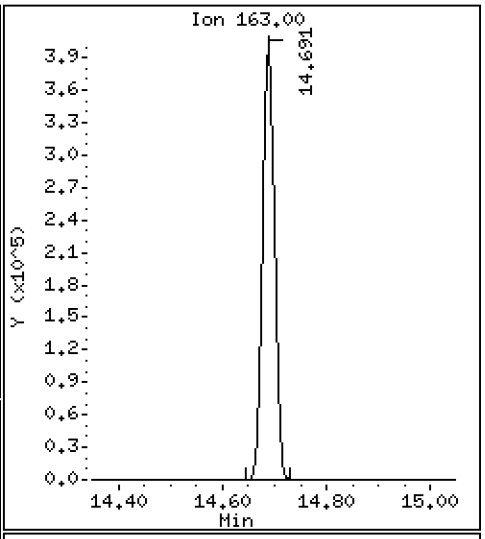
Column phase: ZB-5msi

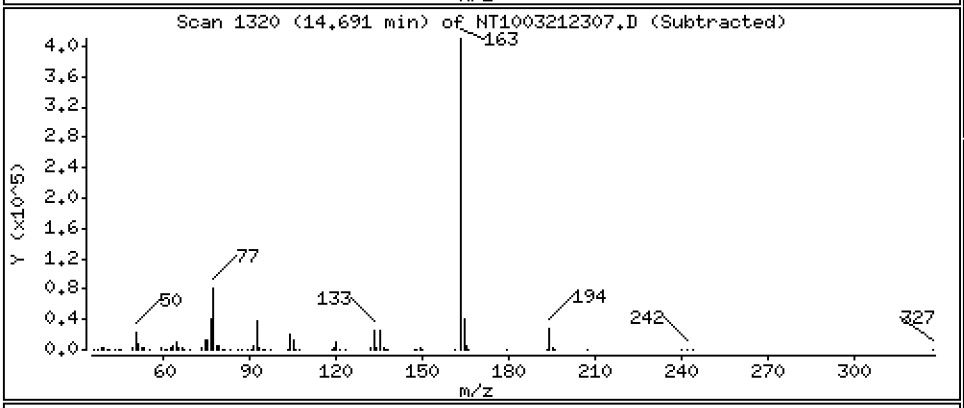
Column diameter: 0.25

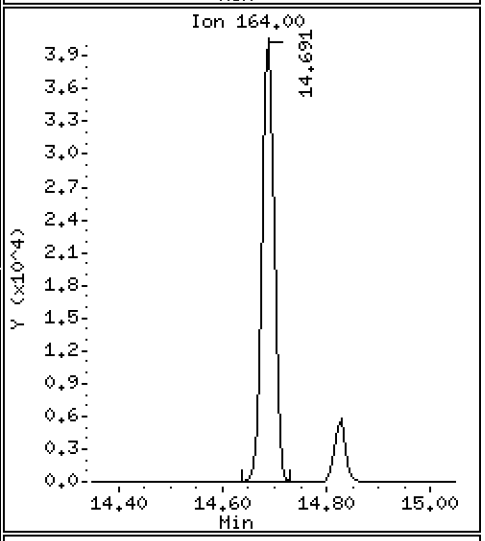
39 Dimethylphthalate

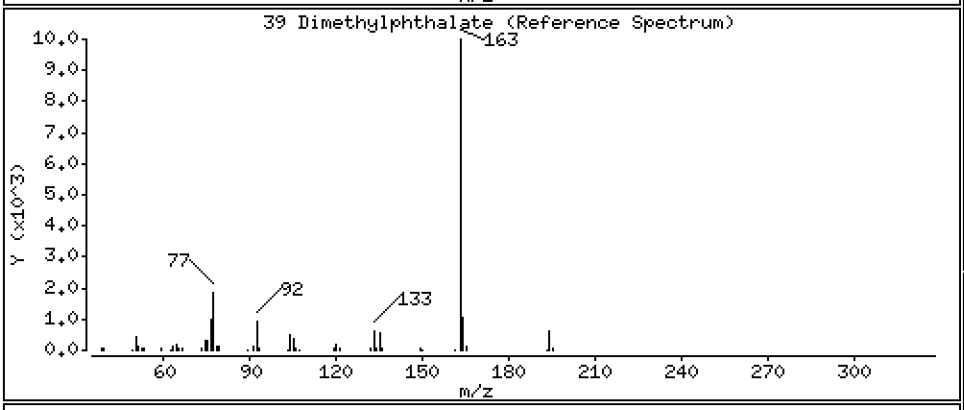
Concentration: 4.450 ug/mL

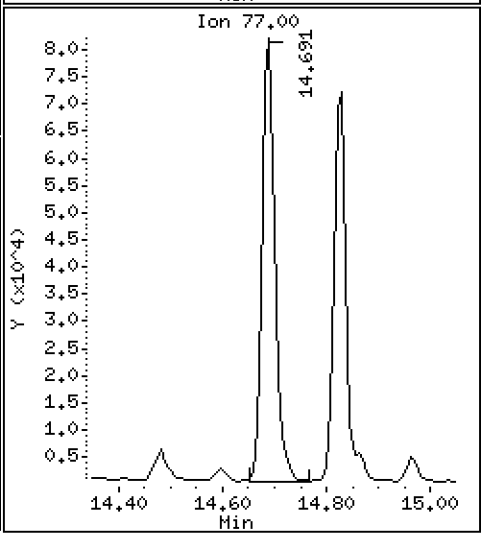


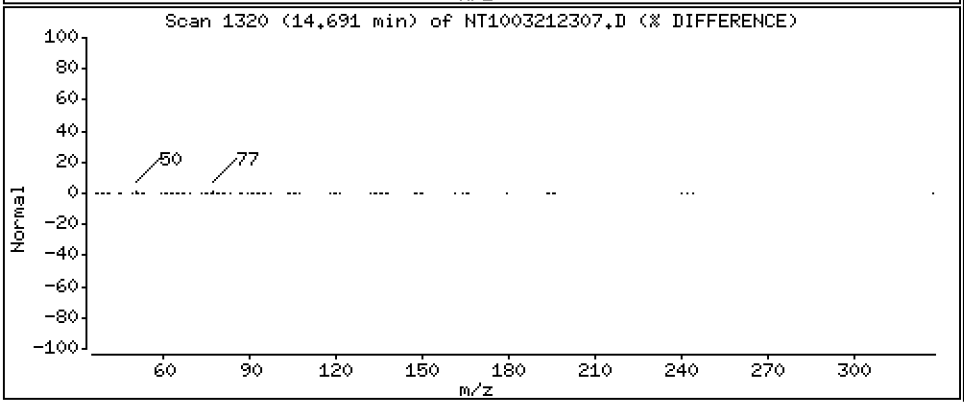












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Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS1

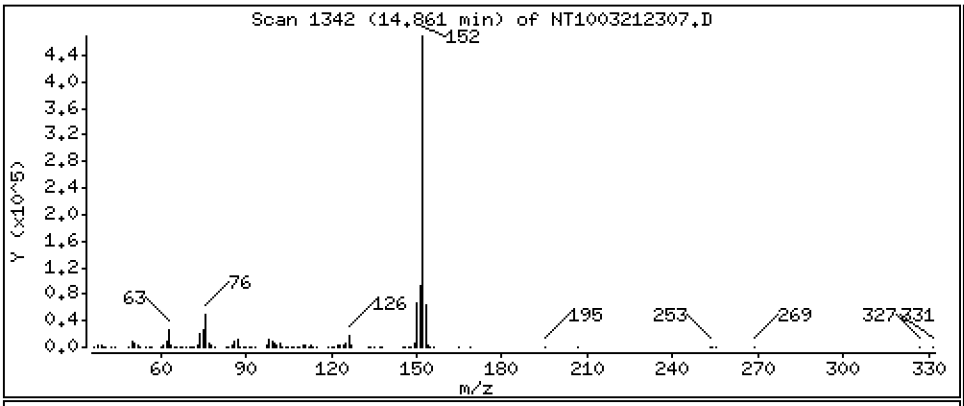
Operator: VTS

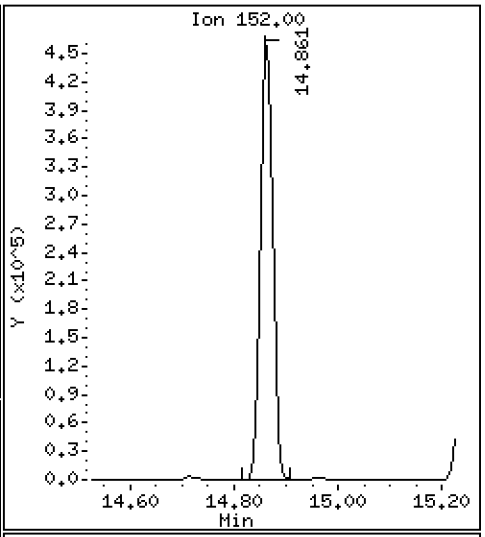
Column phase: ZB-5msi

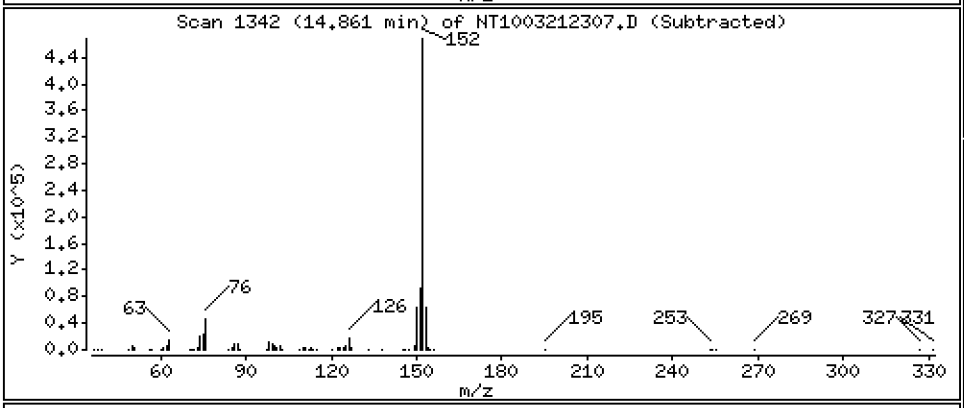
Column diameter: 0.25

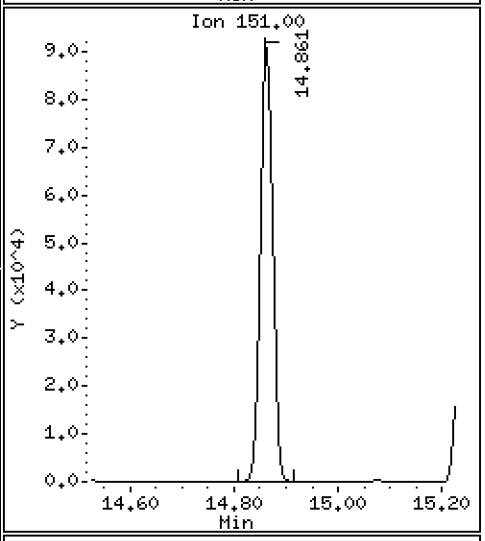
40 Acenaphthylene

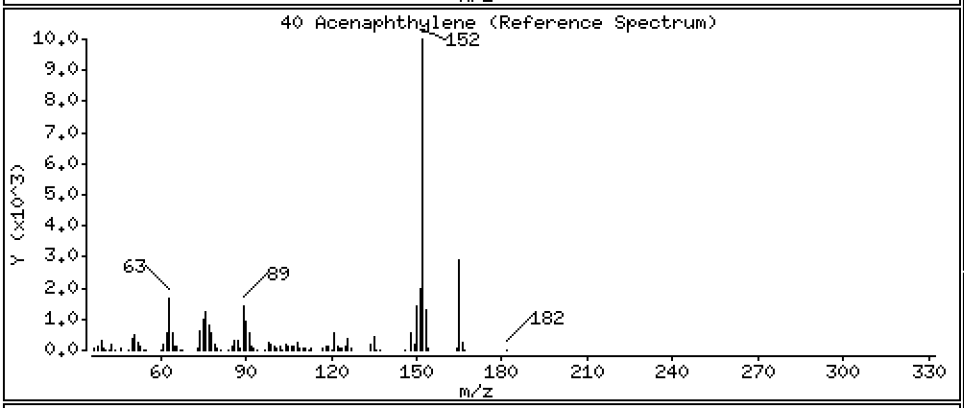
Concentration: 3.523 ug/mL

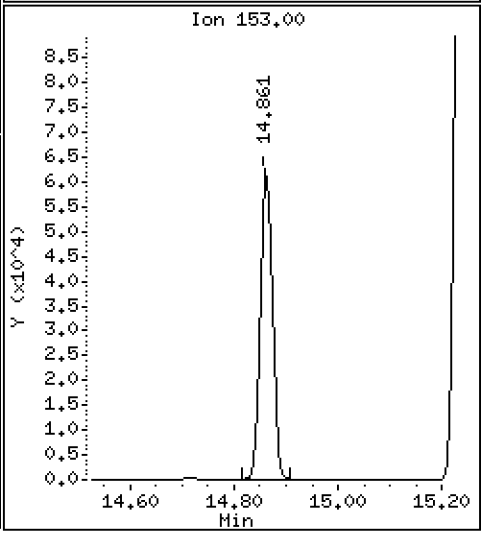


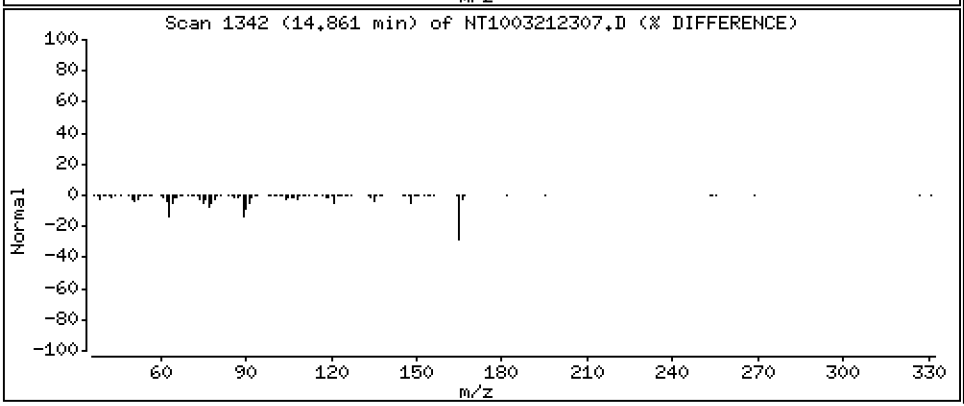












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Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS1

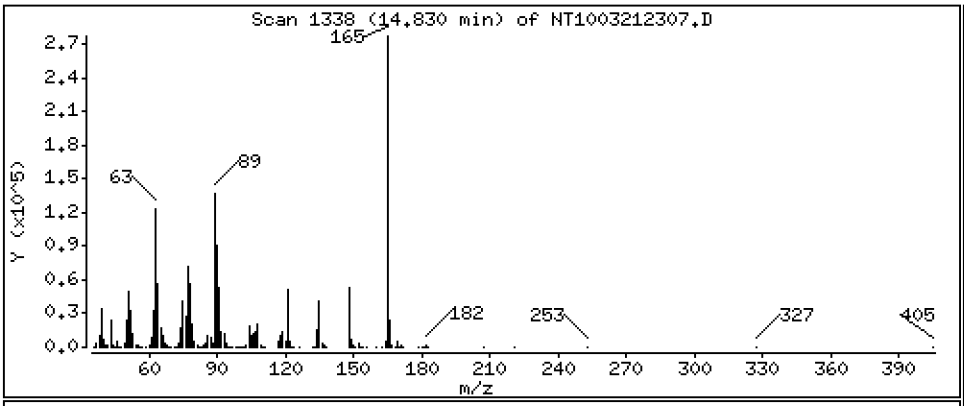
Operator: VTS

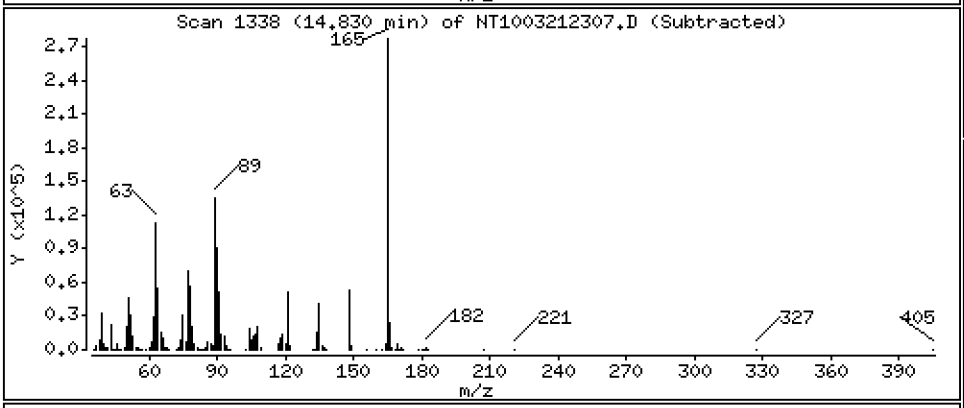
Column phase: ZB-5msi

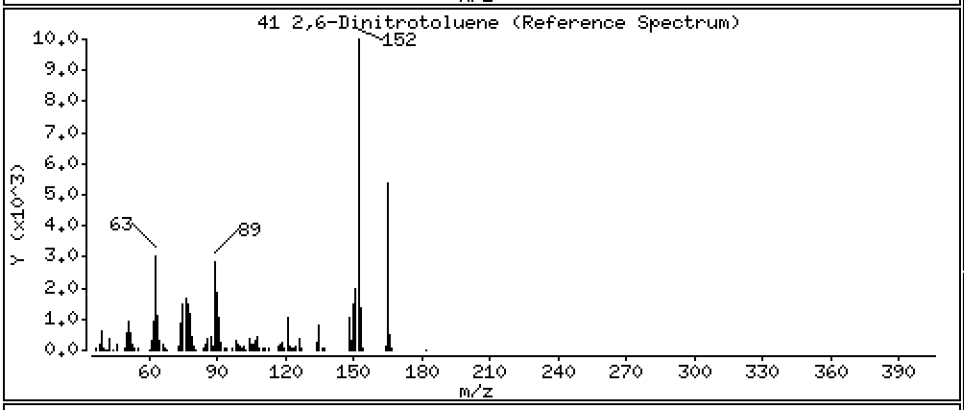
Column diameter: 0.25

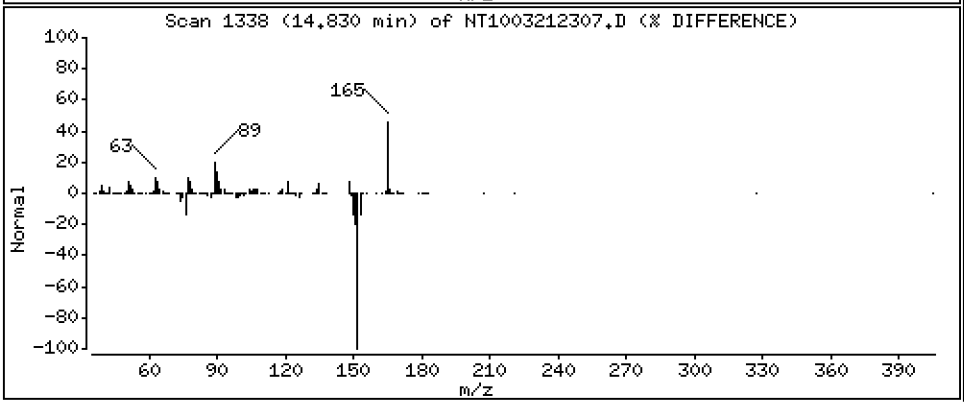
41 2,6-Dinitrotoluene

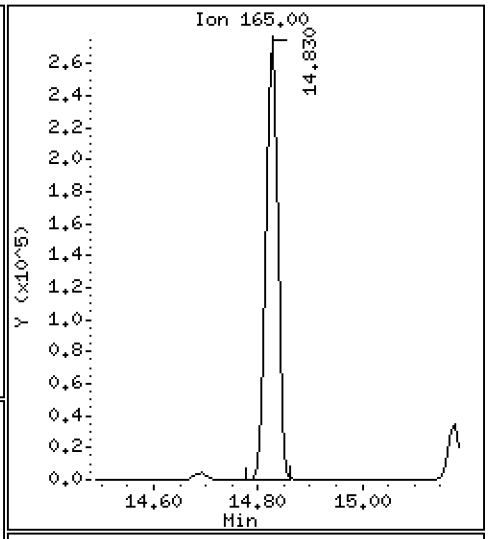
Concentration: 14.10 ug/mL

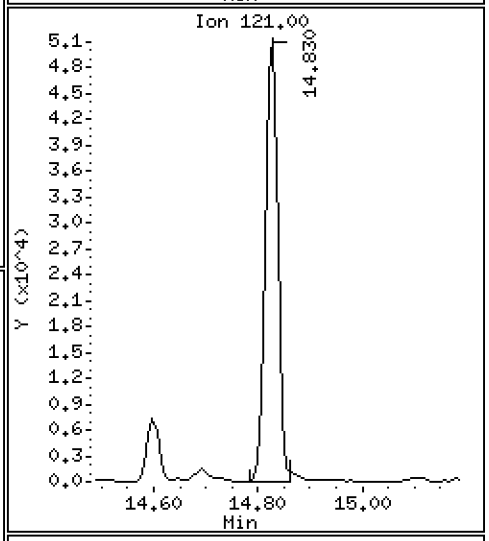


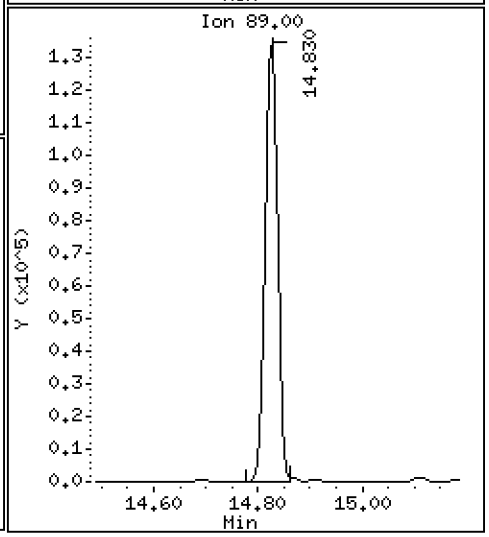












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212307.D

Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS1

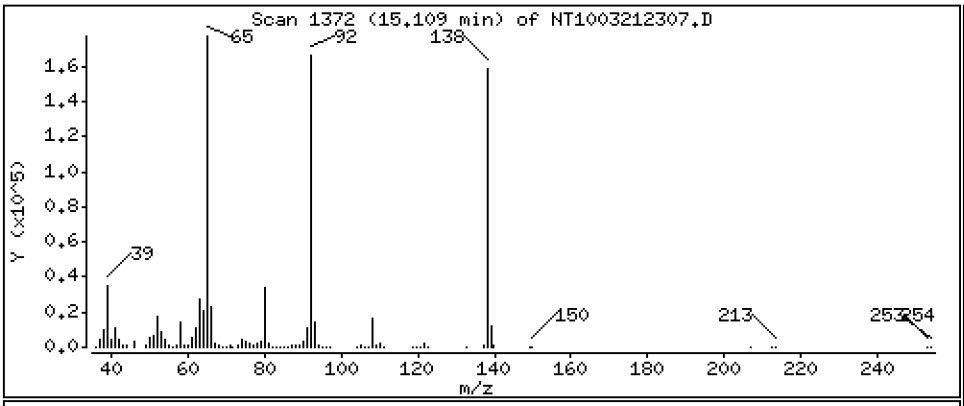
Operator: VTS

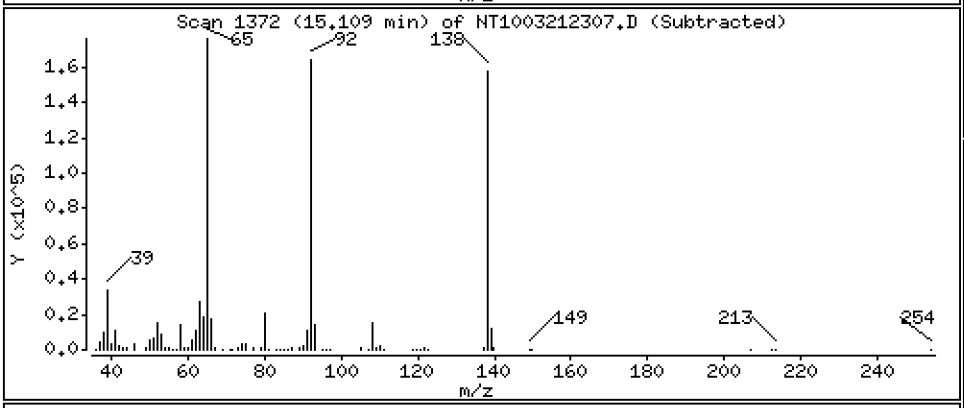
Column phase: ZB-5msi

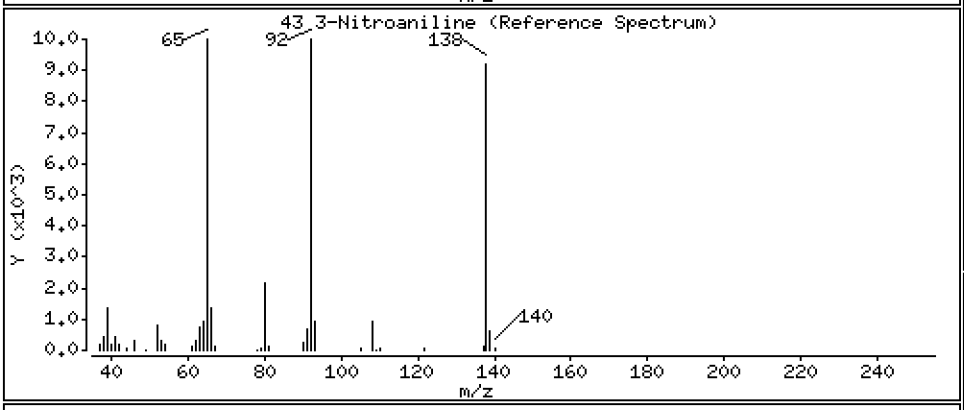
Column diameter: 0.25

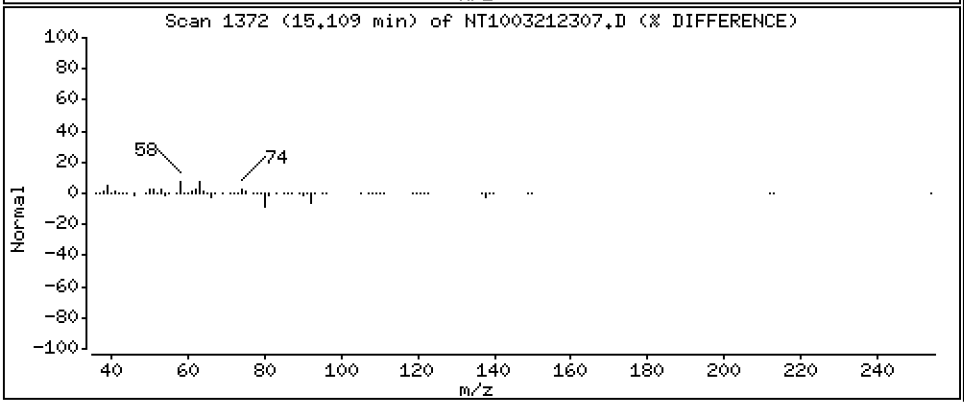
43 3-Nitroaniline

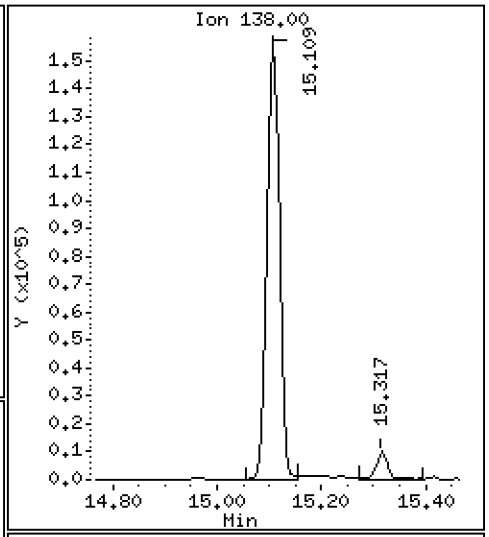
Concentration: 7.434 ug/mL

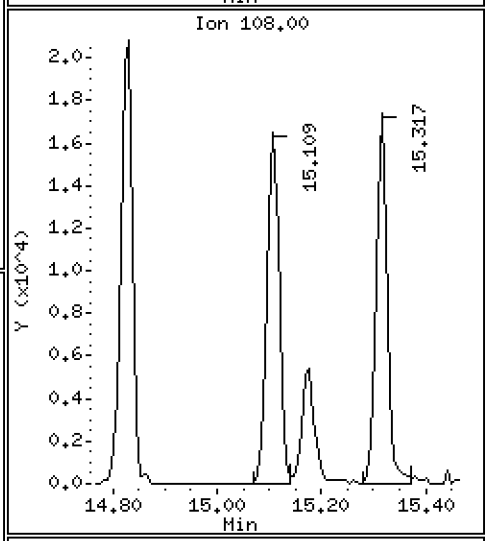


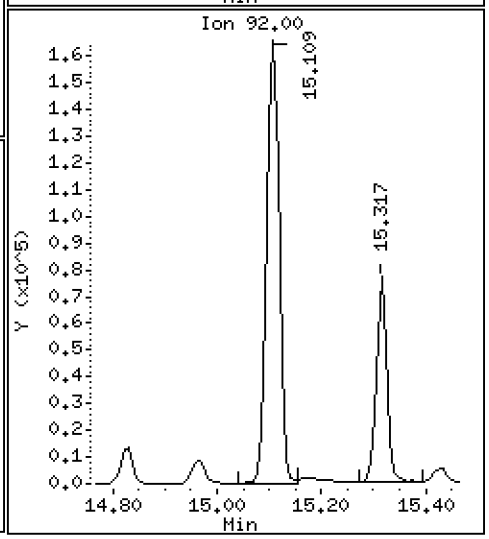












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Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS1

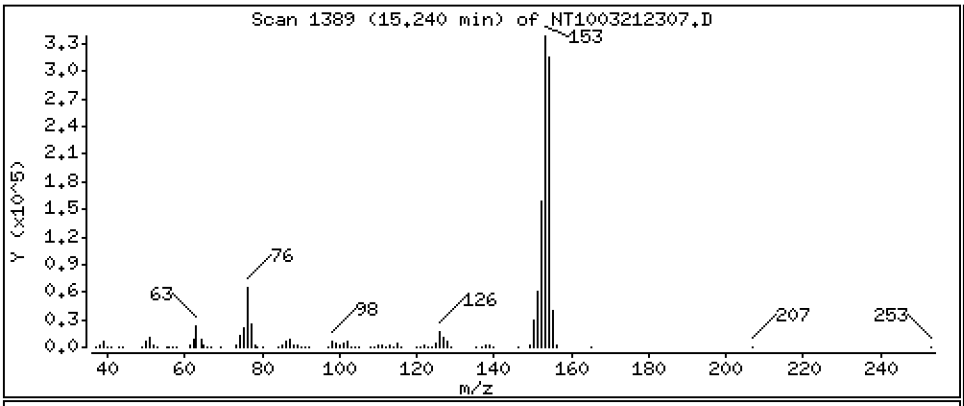
Operator: VTS

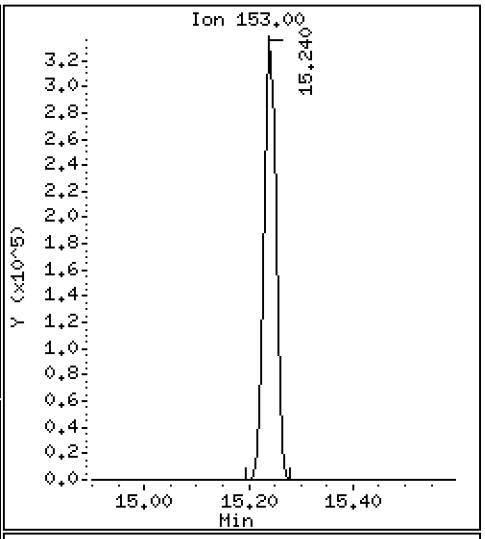
Column phase: ZB-5msi

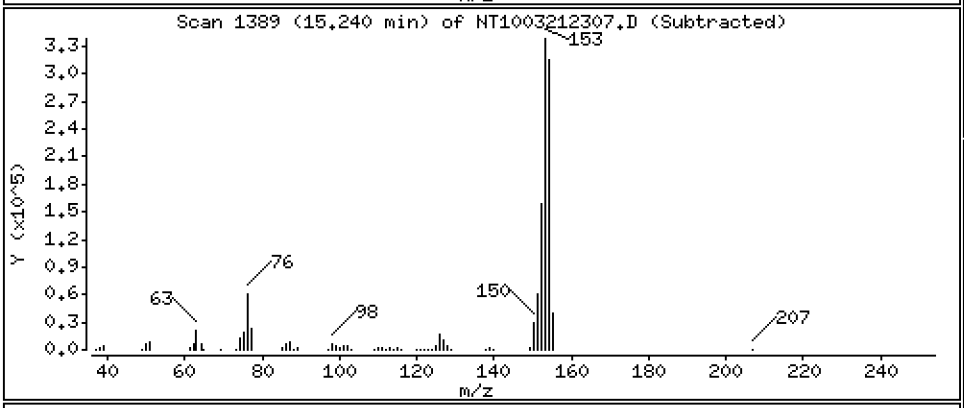
Column diameter: 0.25

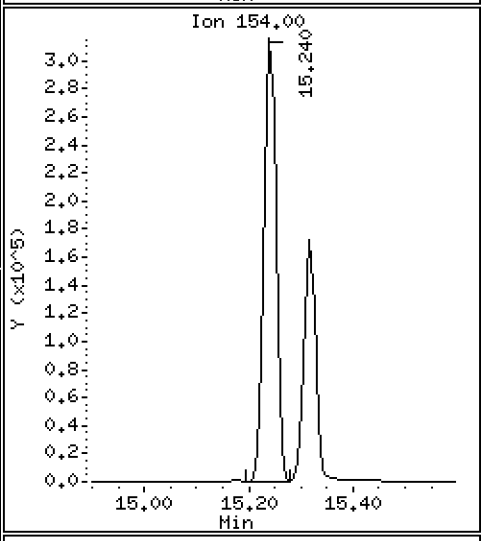
44 Acenaphthene

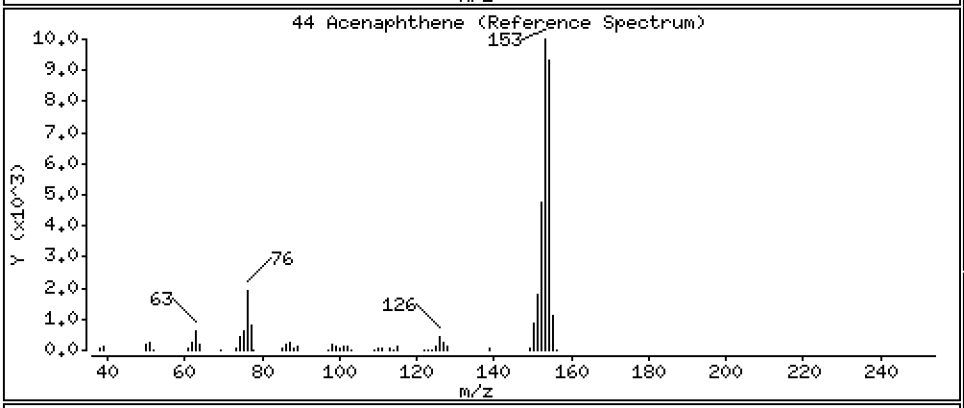
Concentration: 3.940 ug/mL

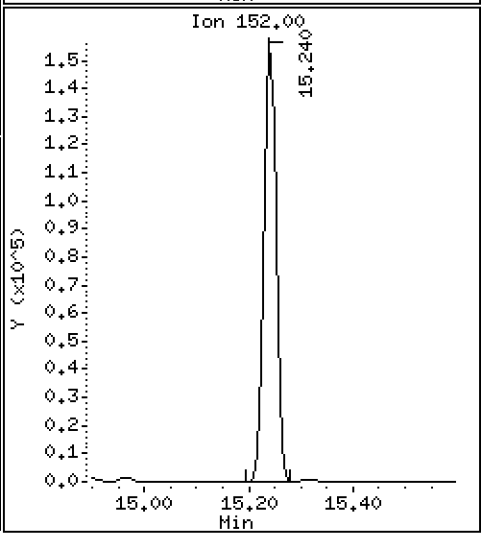


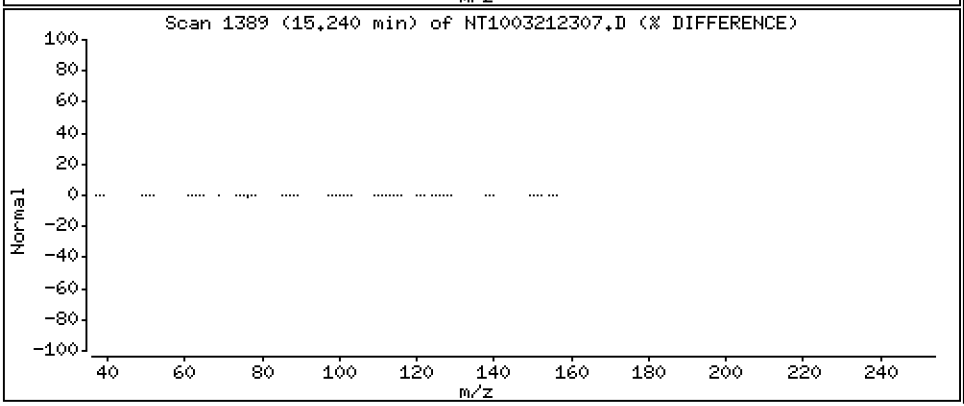












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Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS1

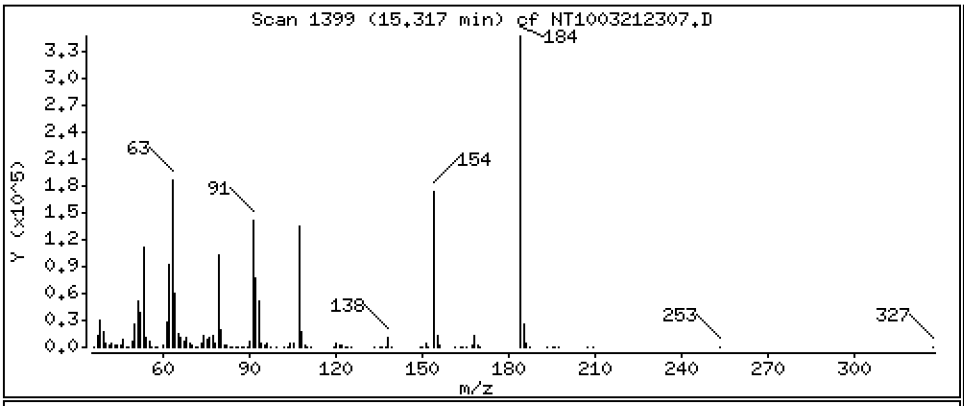
Operator: VTS

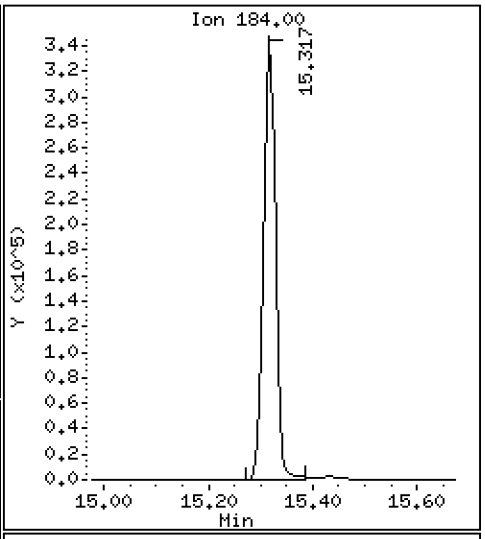
Column phase: ZB-5msi

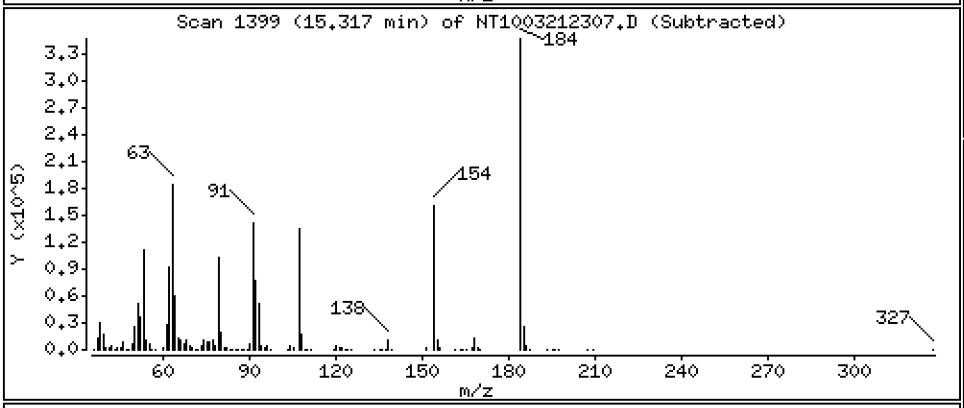
Column diameter: 0.25

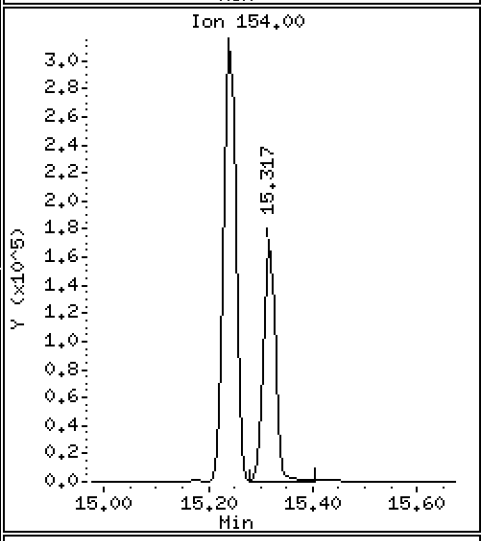
45 2,4-Dinitrophenol

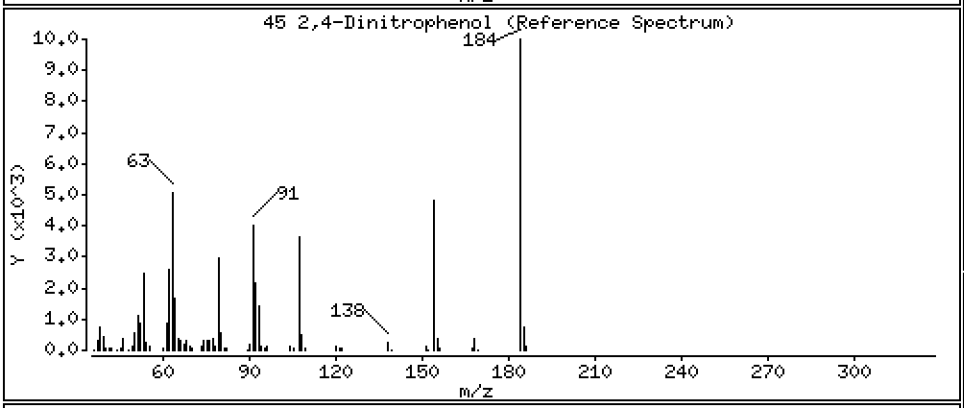
Concentration: 27.56 ug/mL

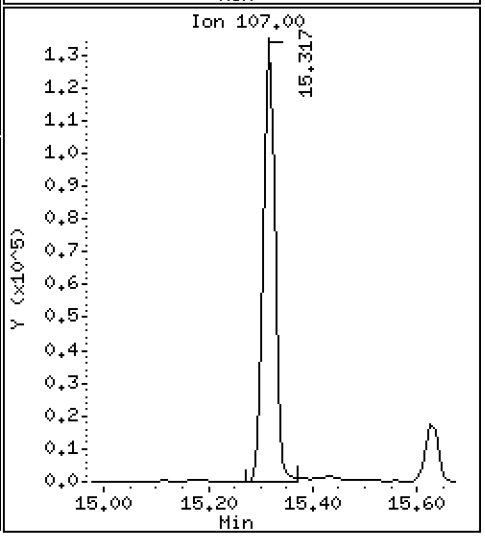


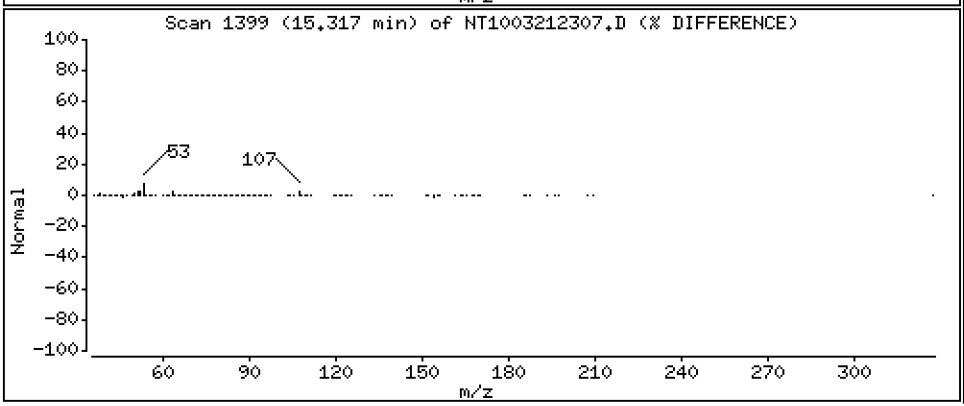












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Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS1

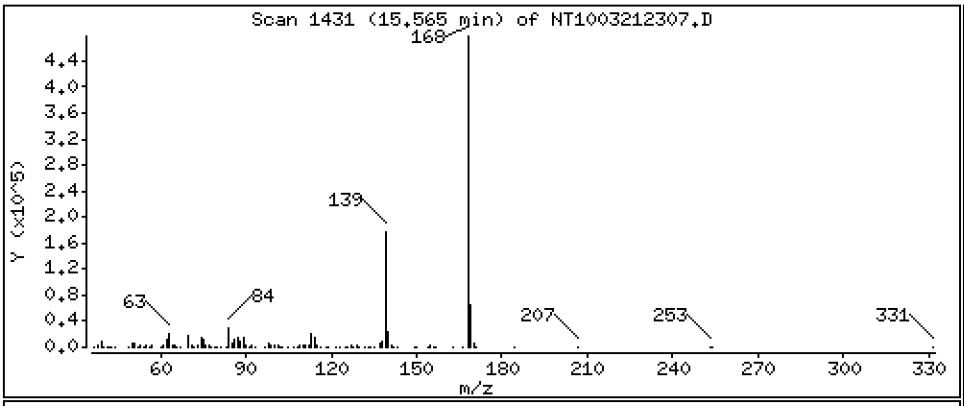
Operator: VTS

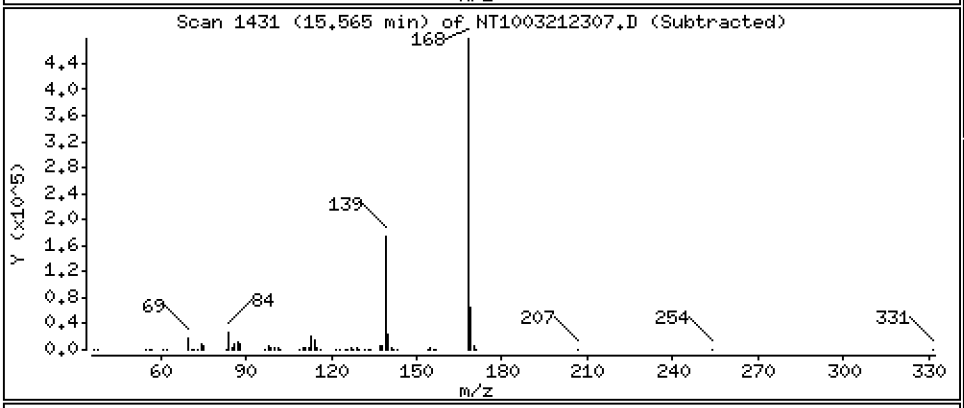
Column phase: ZB-5msi

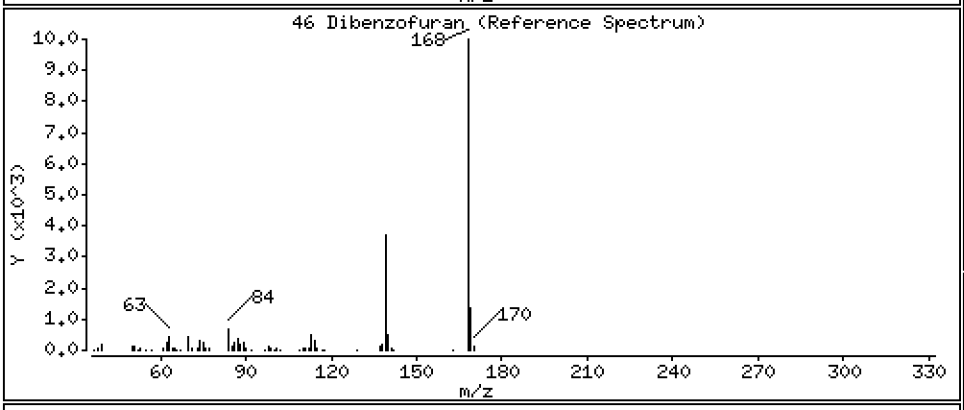
Column diameter: 0.25

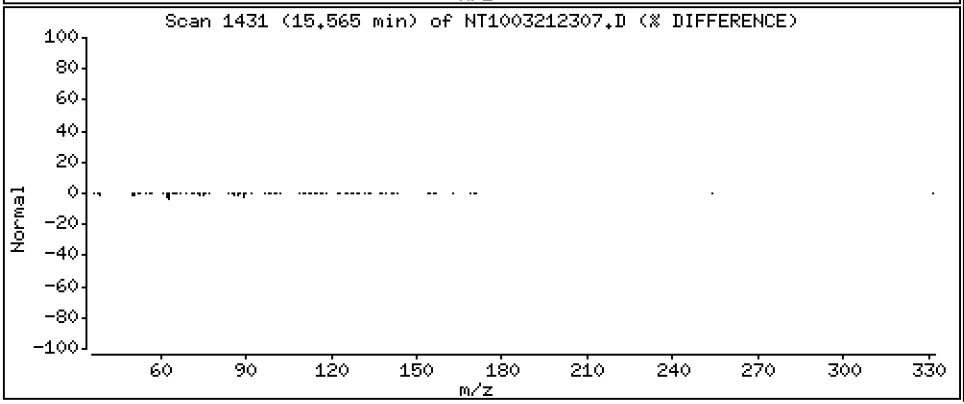
46 Dibenzofuran

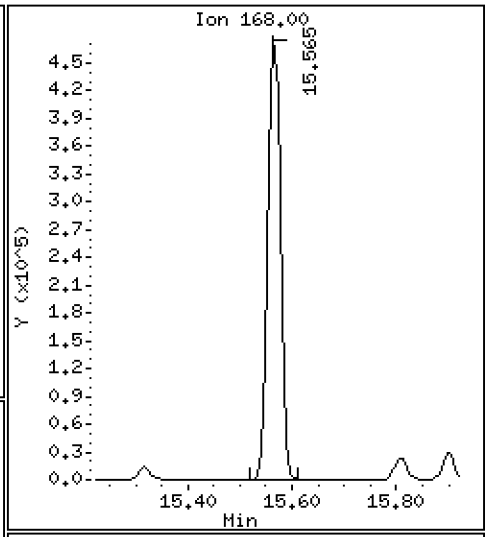
Concentration: 4.001 ug/mL

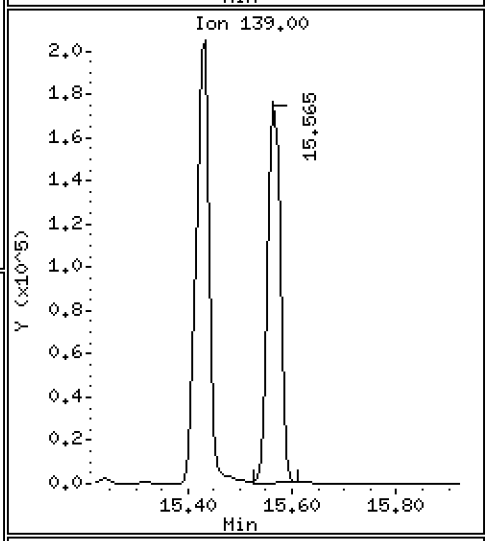


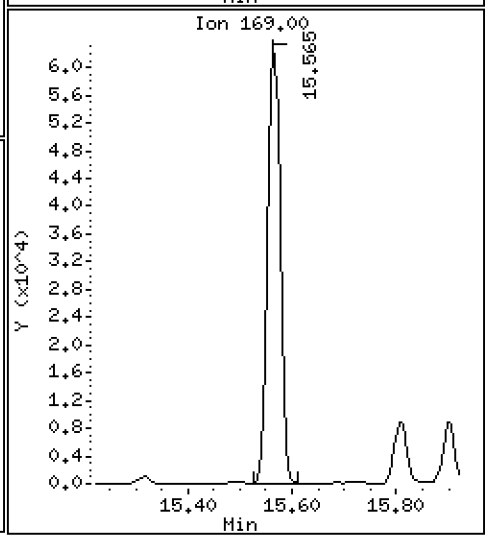












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Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS1

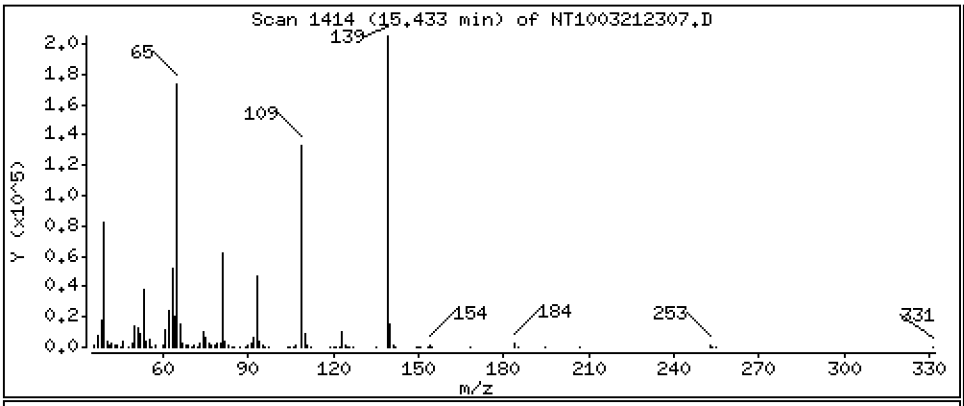
Operator: VTS

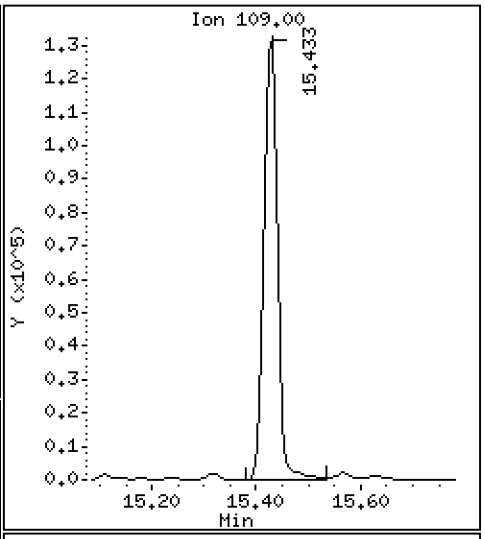
Column phase: ZB-5msi

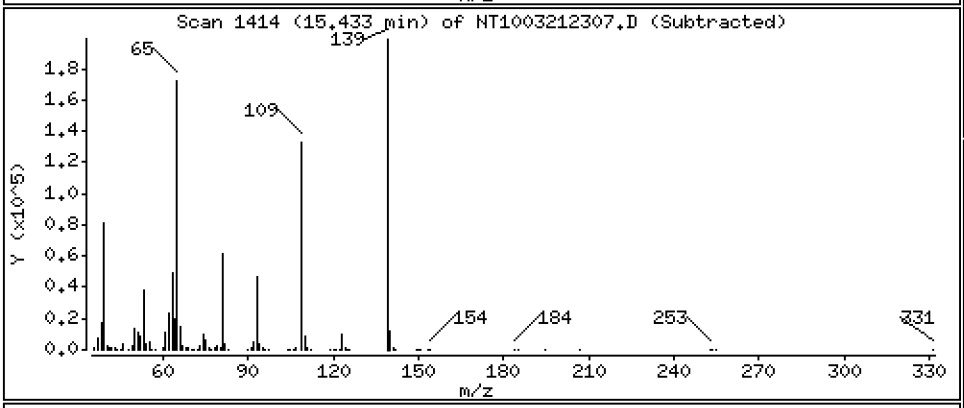
Column diameter: 0.25

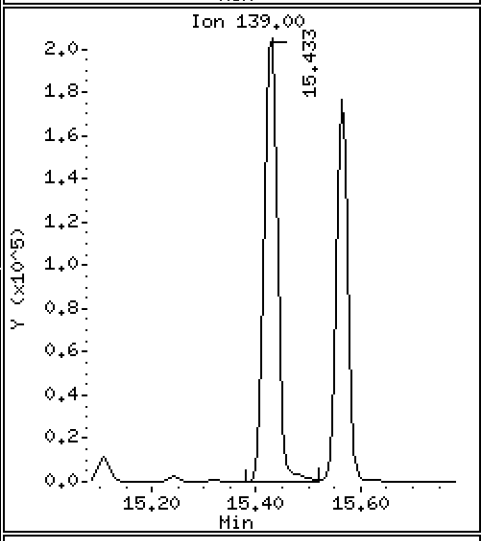
47 4-Nitrophenol

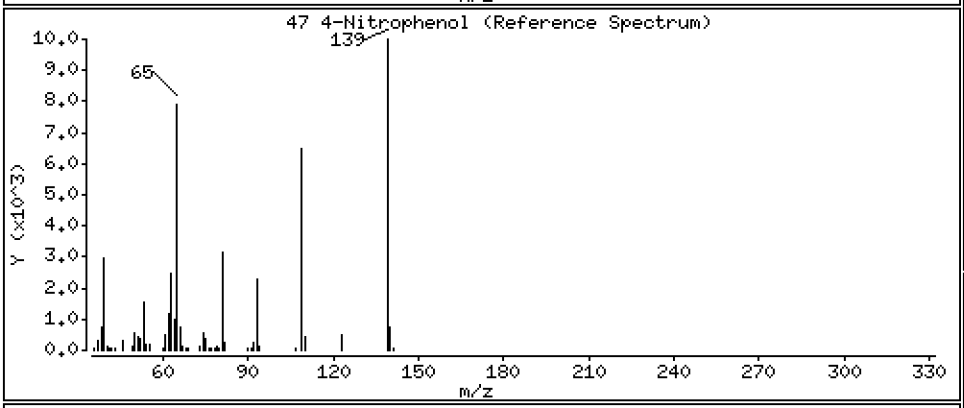
Concentration: 11.21 ug/mL

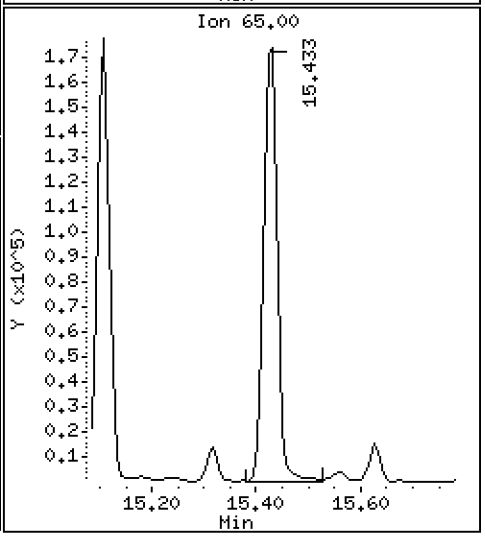


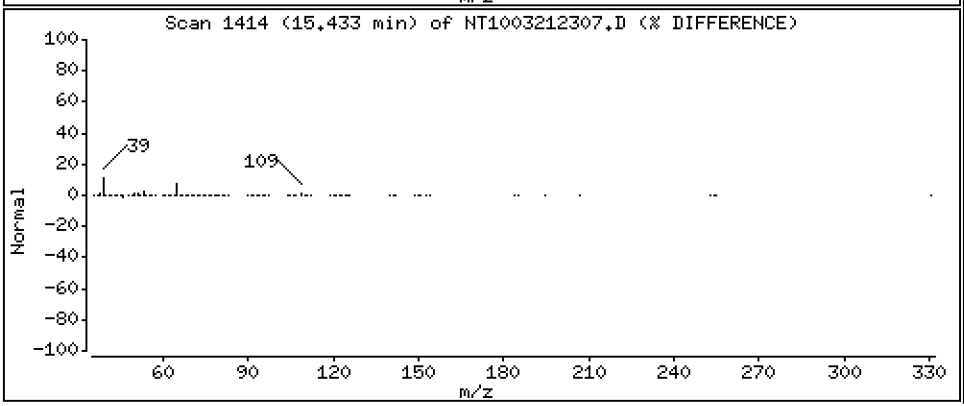












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Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS1

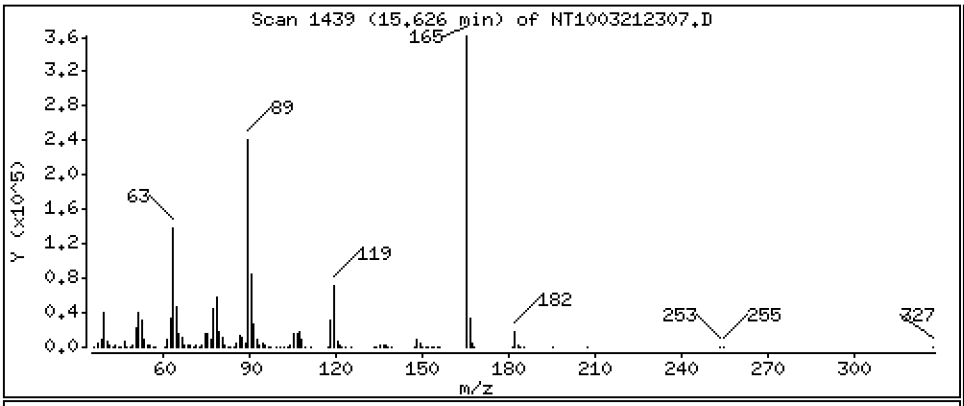
Operator: VTS

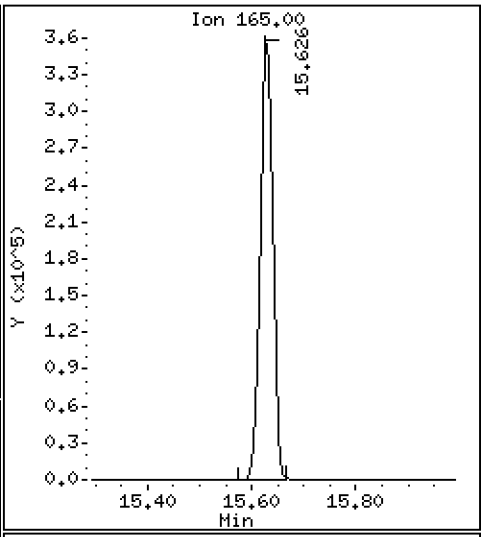
Column phase: ZB-5msi

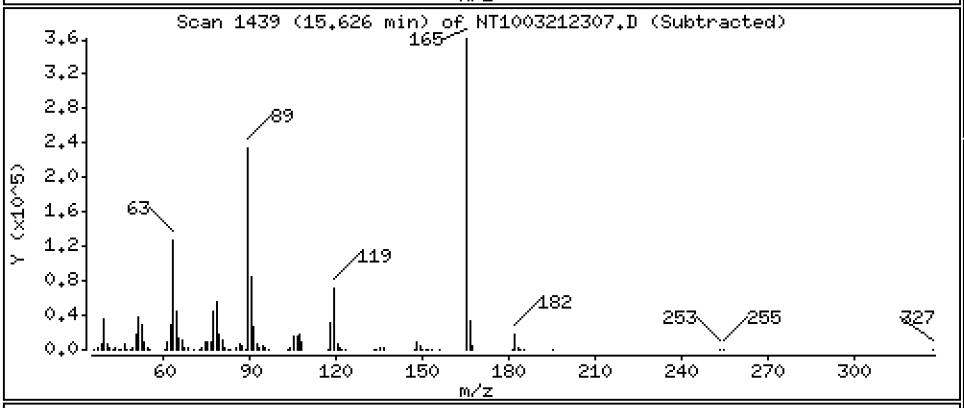
Column diameter: 0.25

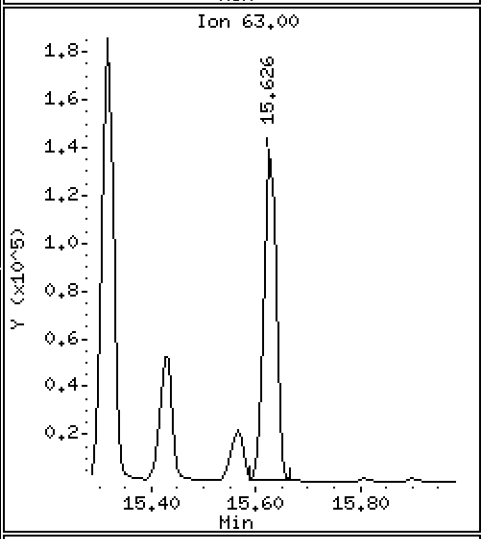
48 2,4-Dinitrotoluene

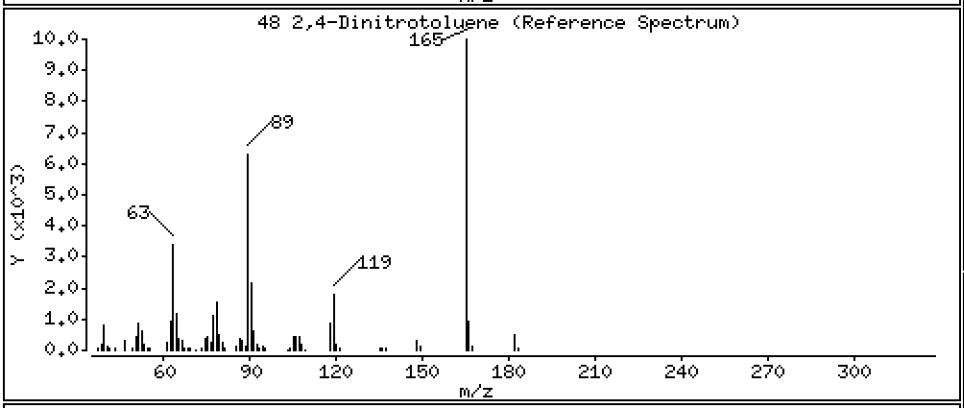
Concentration: 13.27 ug/mL

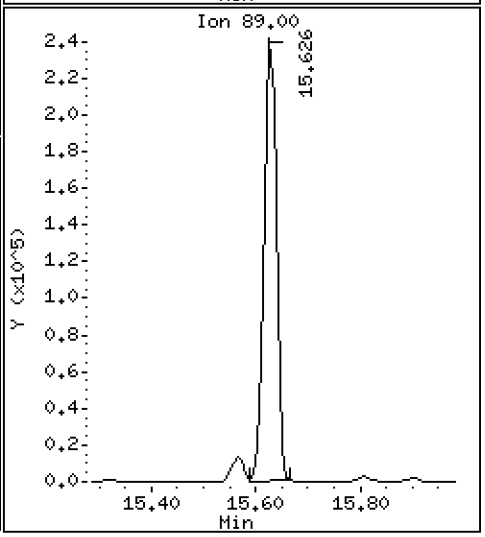


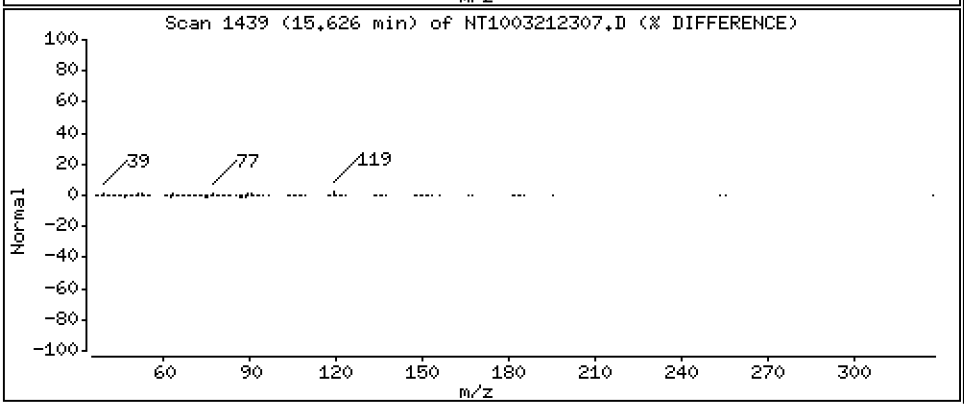












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Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS1

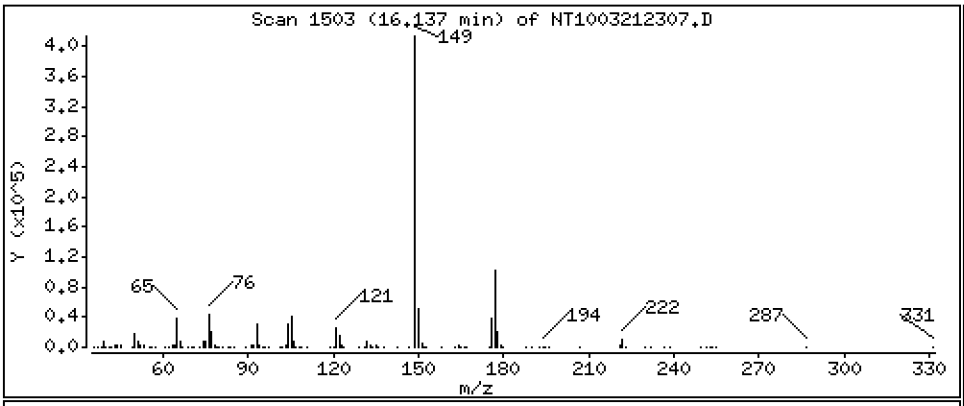
Operator: VTS

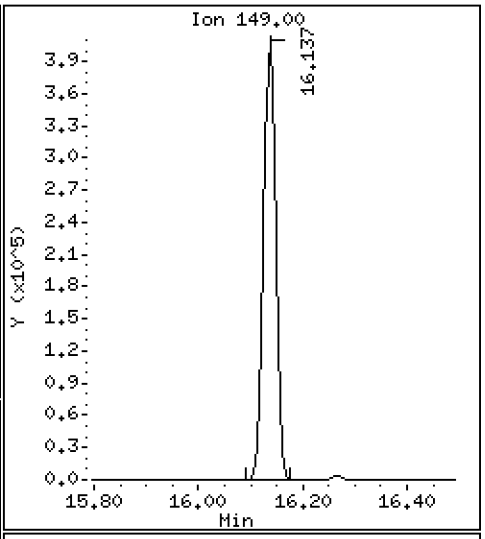
Column phase: ZB-5msi

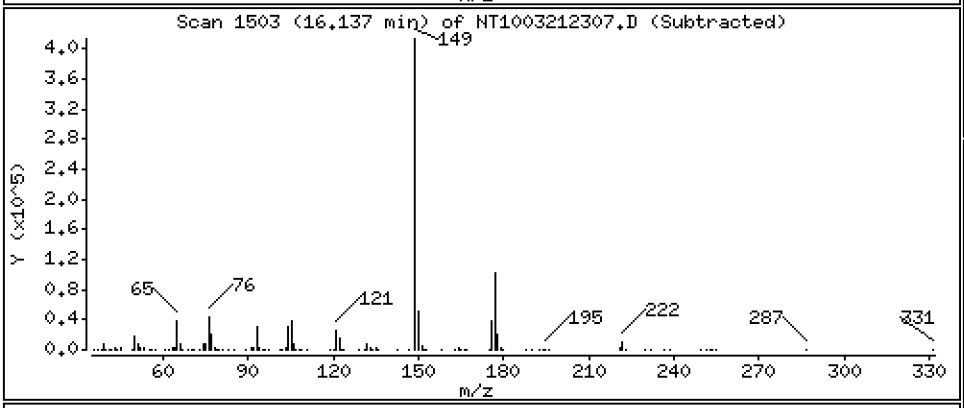
Column diameter: 0.25

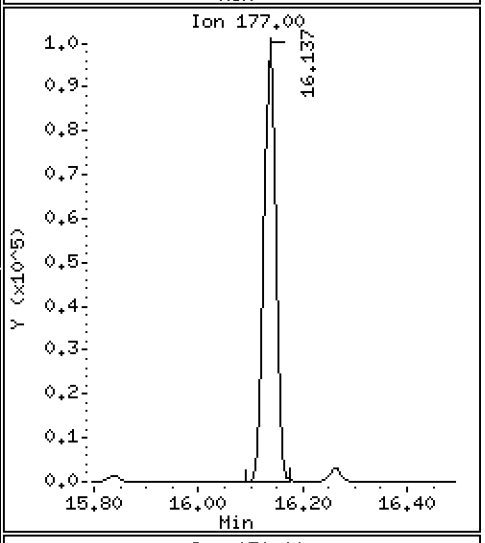
50 Diethylphthalate

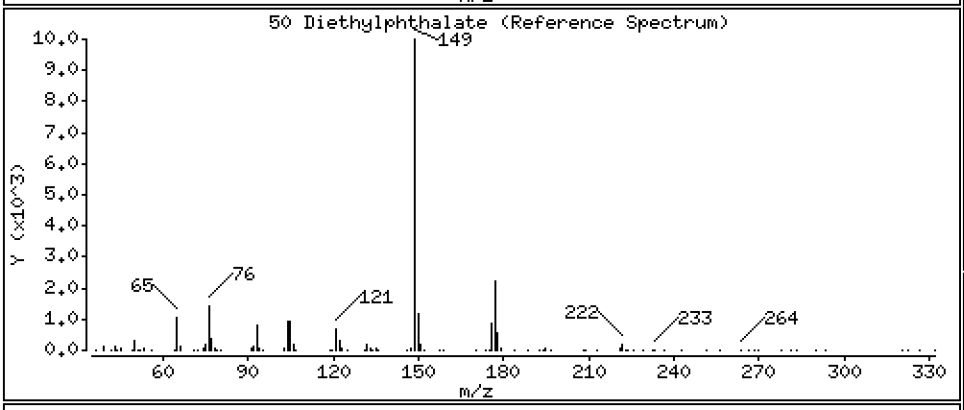
Concentration: 4.734 ug/mL

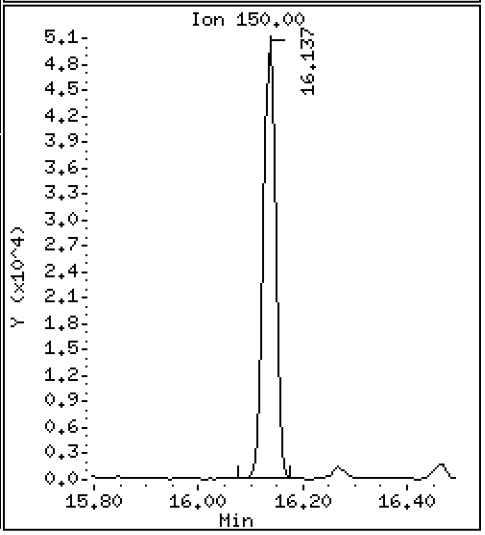


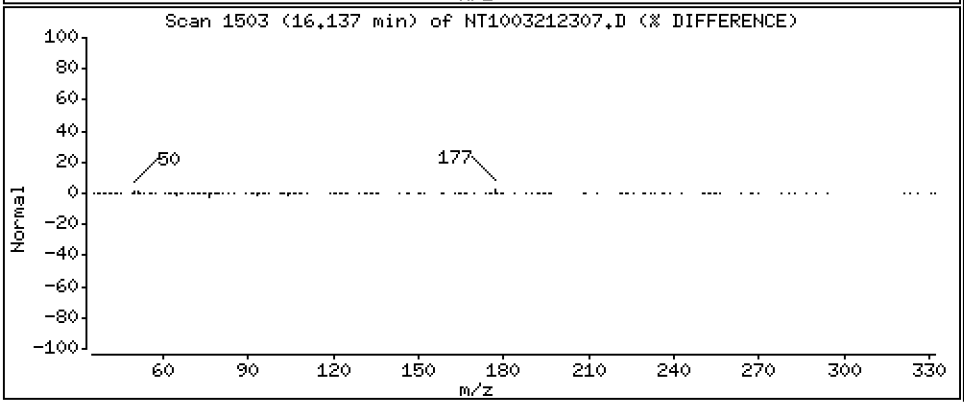












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212307.D

Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS1

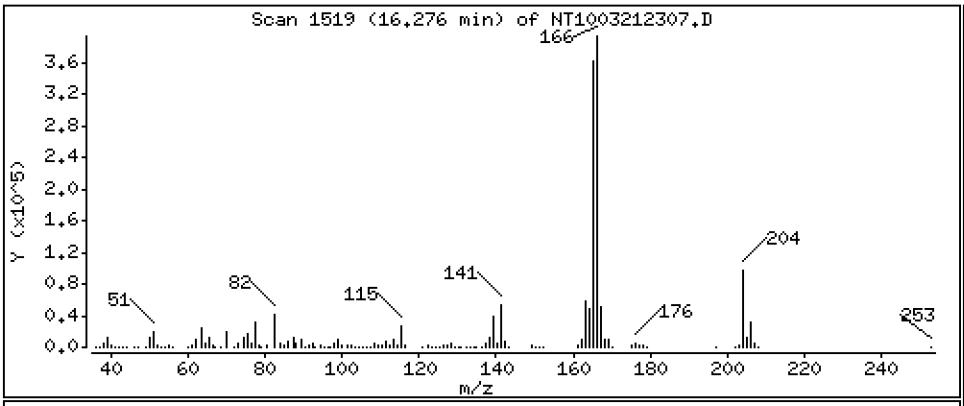
Operator: VTS

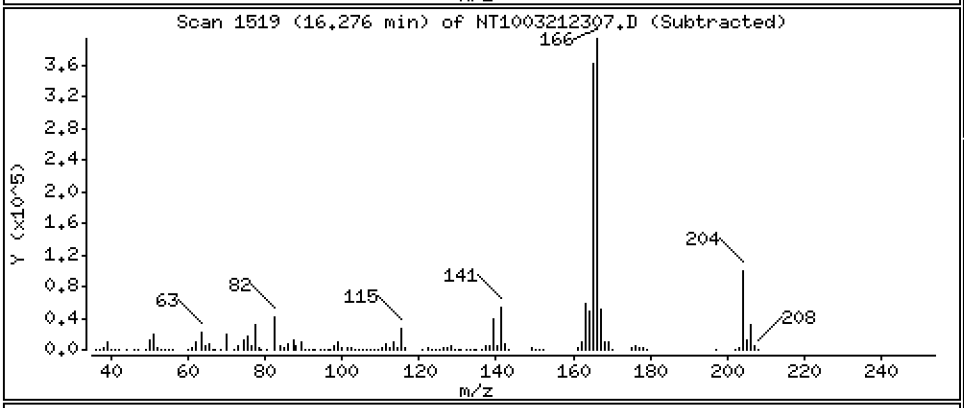
Column phase: ZB-5msi

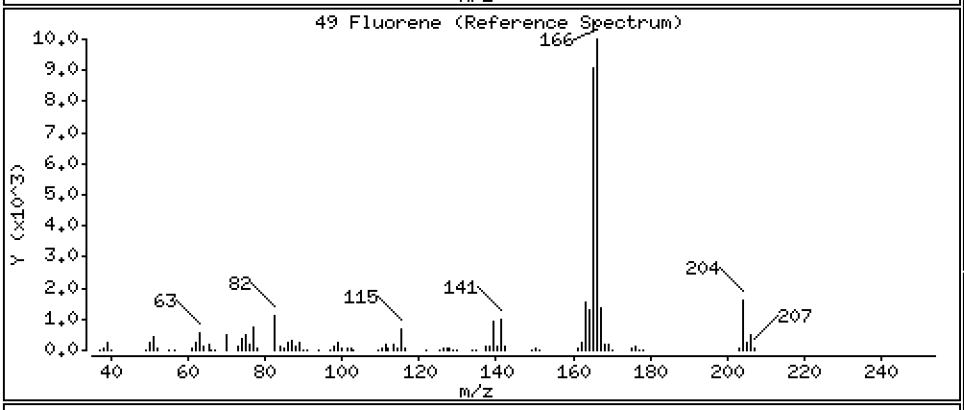
Column diameter: 0.25

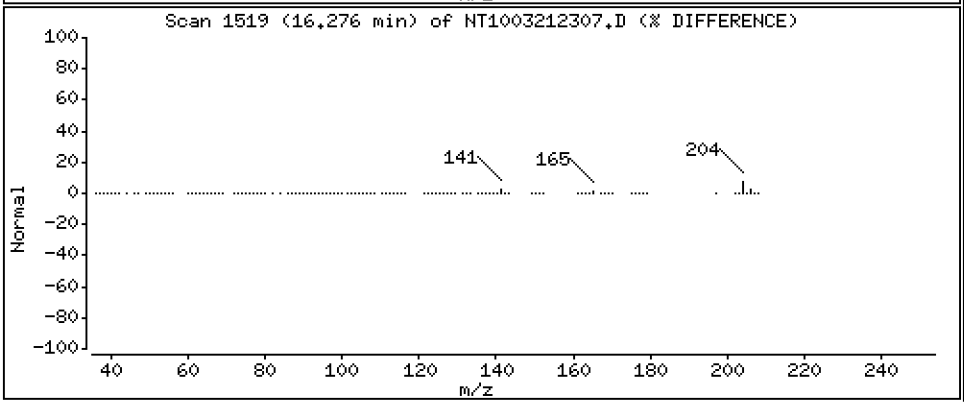
49 Fluorene

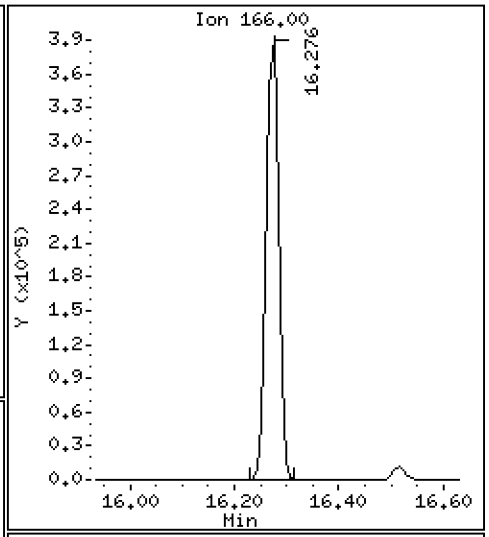
Concentration: 4.123 ug/mL

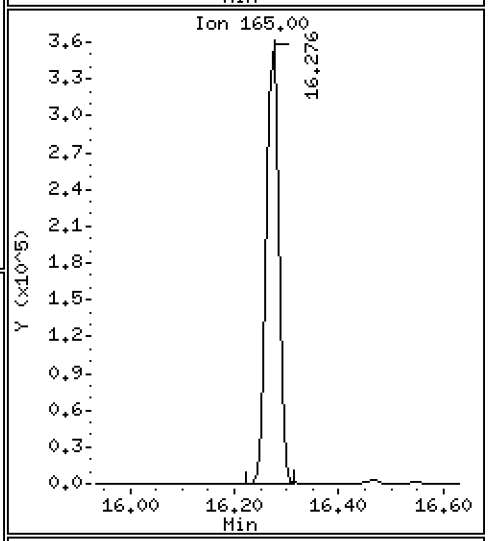


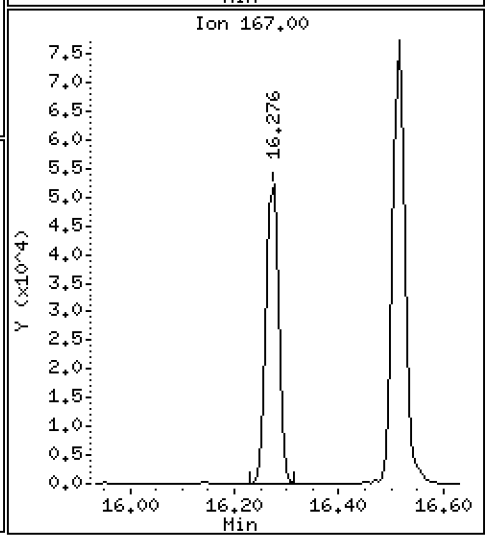












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Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS1

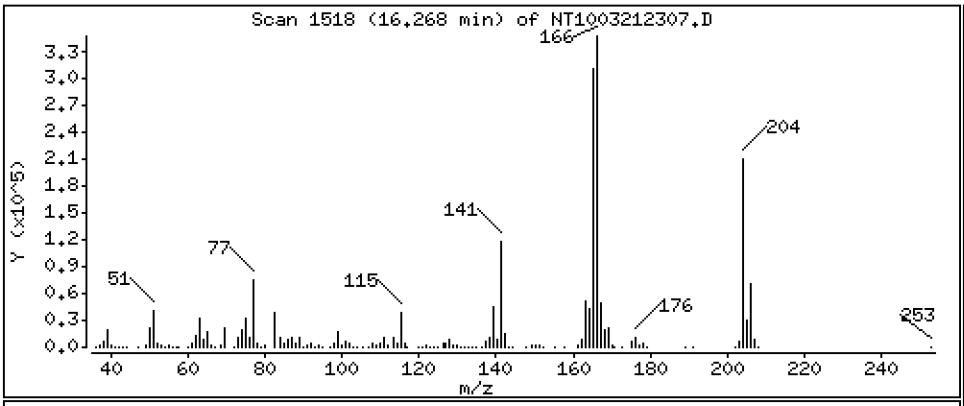
Operator: VTS

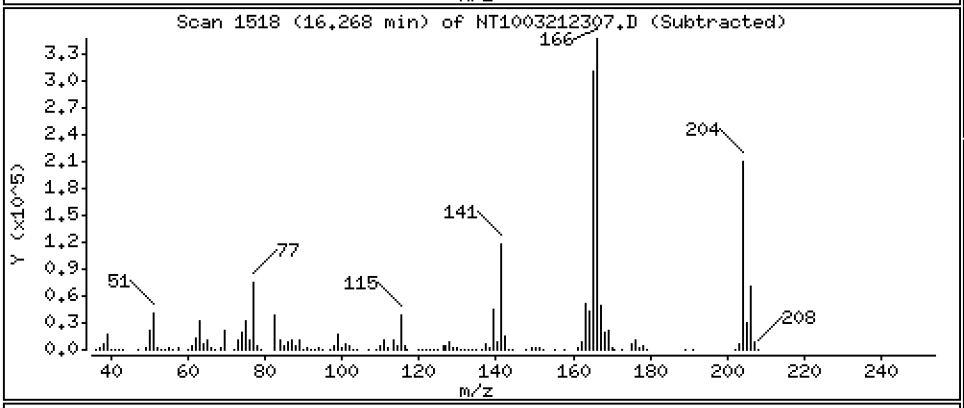
Column phase: ZB-5msi

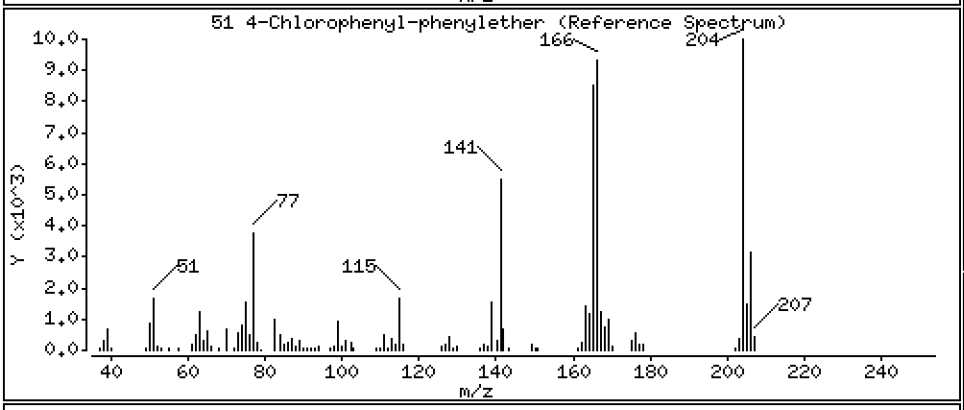
Column diameter: 0.25

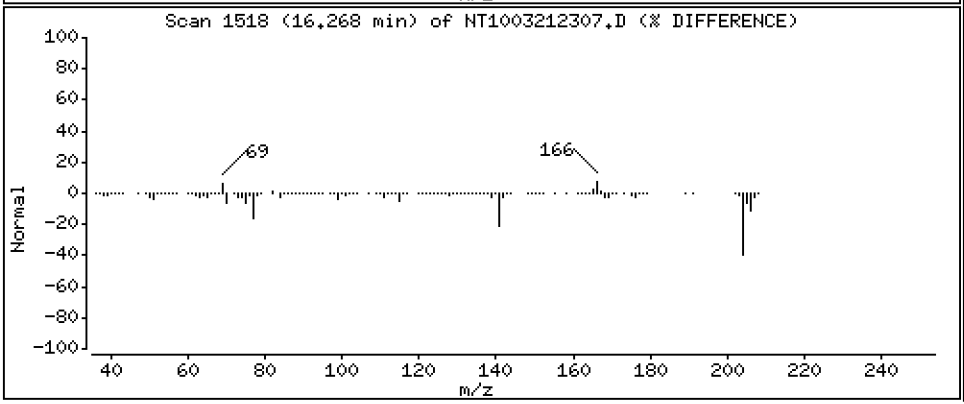
51 4-Chlorophenyl-phenylether

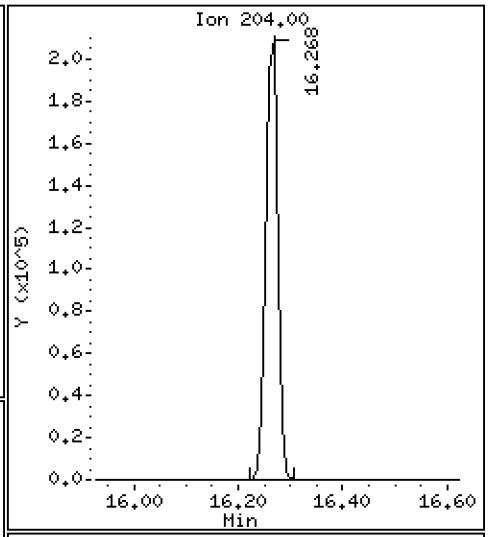
Concentration: 4.379 ug/mL

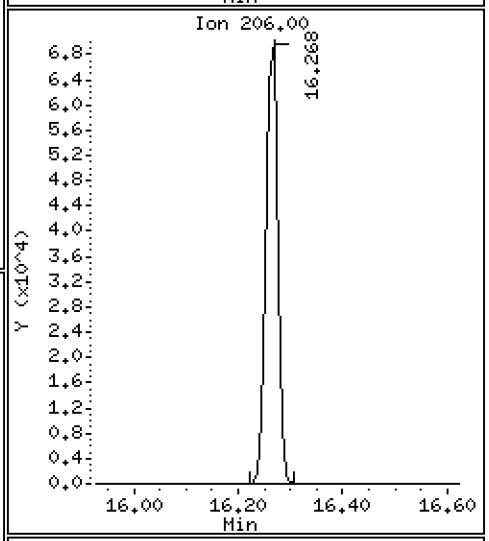


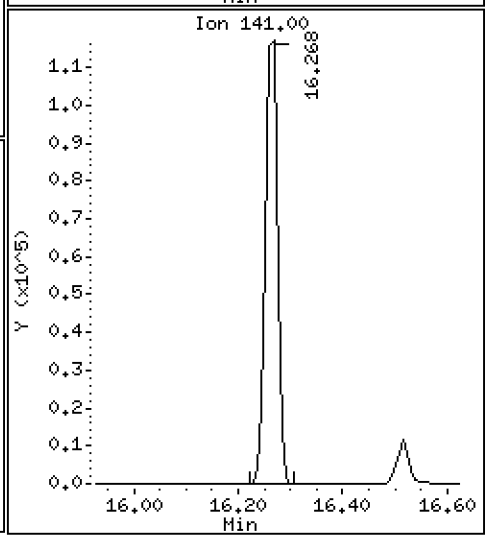












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Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS1

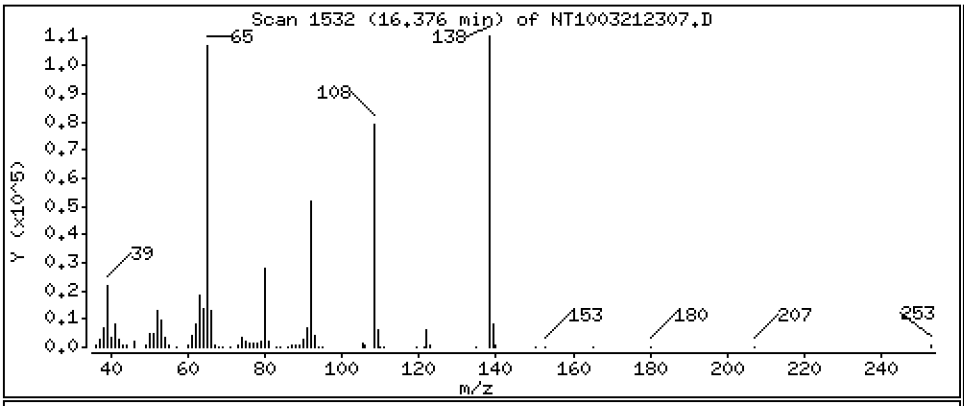
Operator: VTS

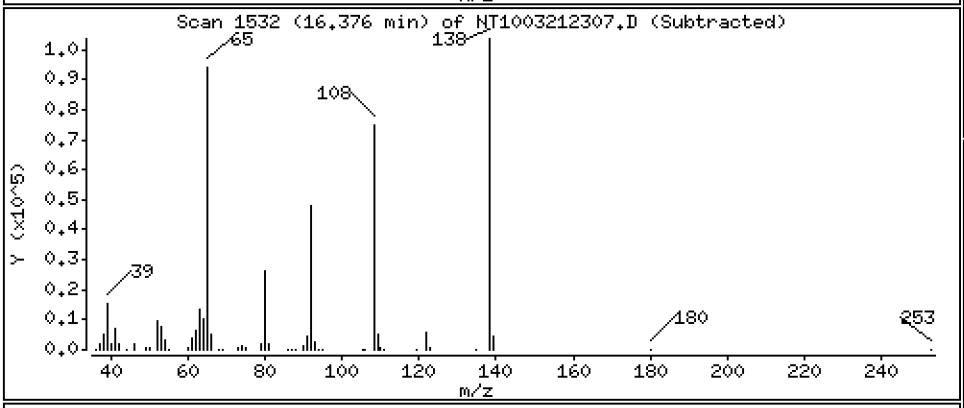
Column phase: ZB-5msi

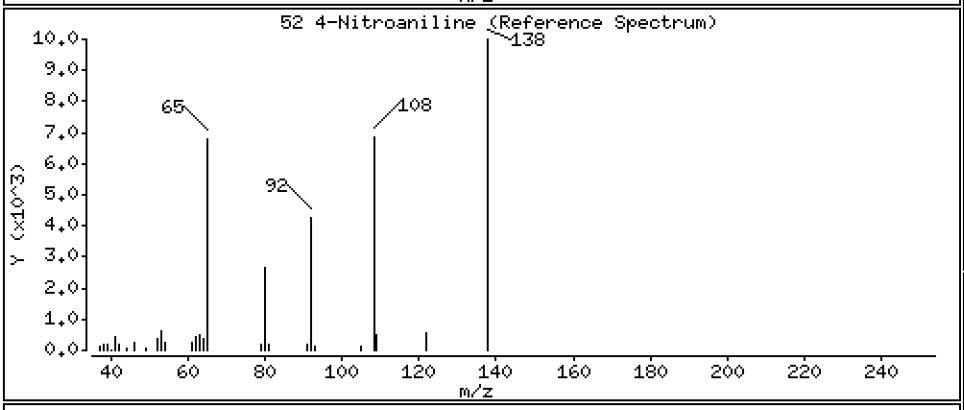
Column diameter: 0.25

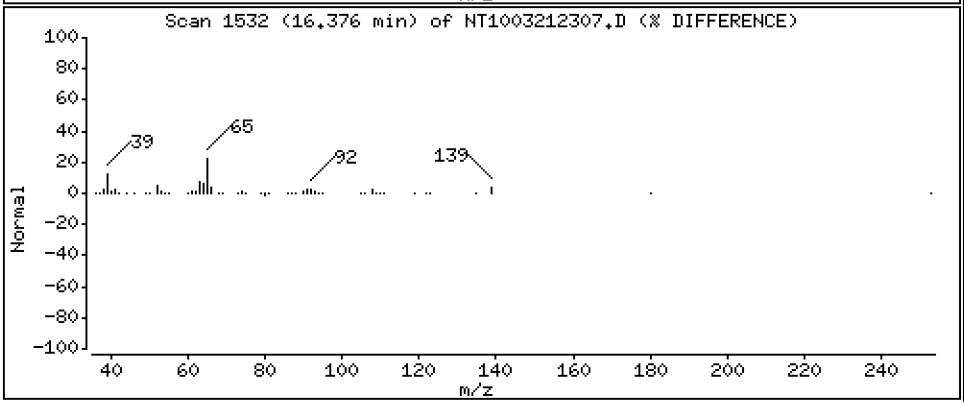
52 4-Nitroaniline

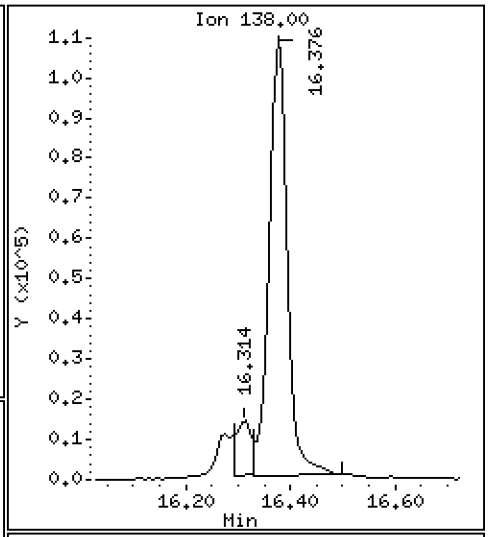
Concentration: 8.595 ug/mL

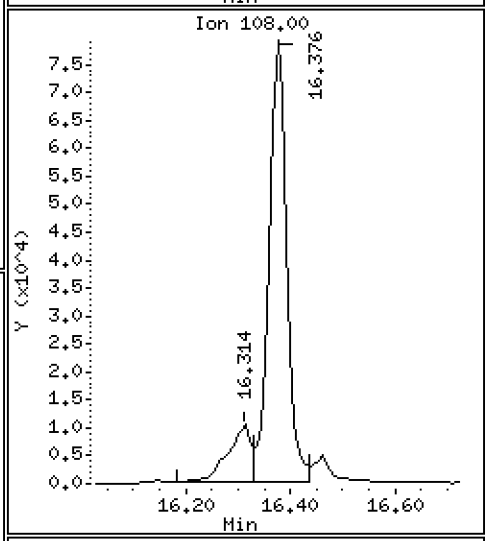


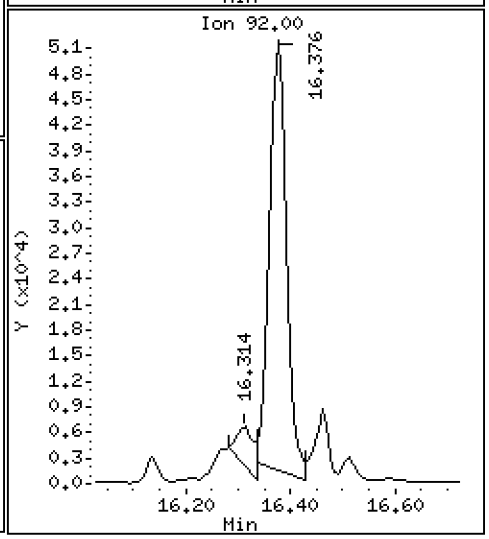












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Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS1

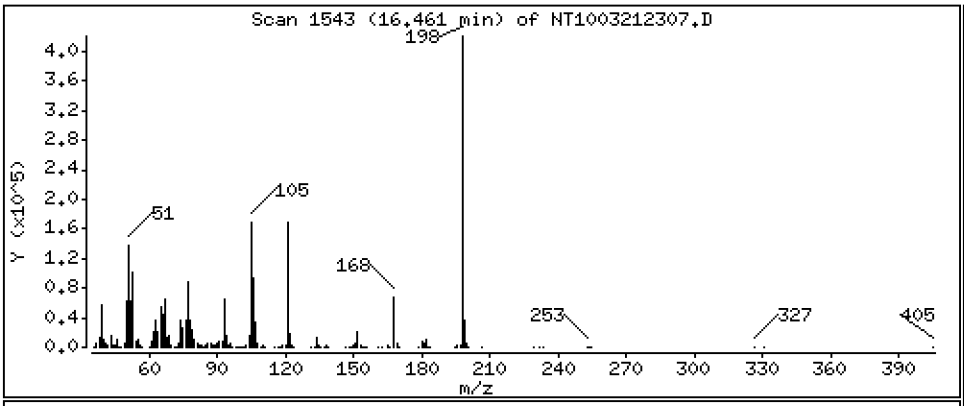
Operator: VTS

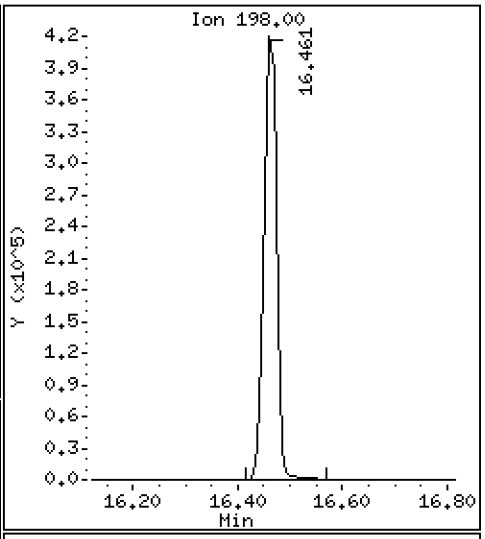
Column phase: ZB-5msi

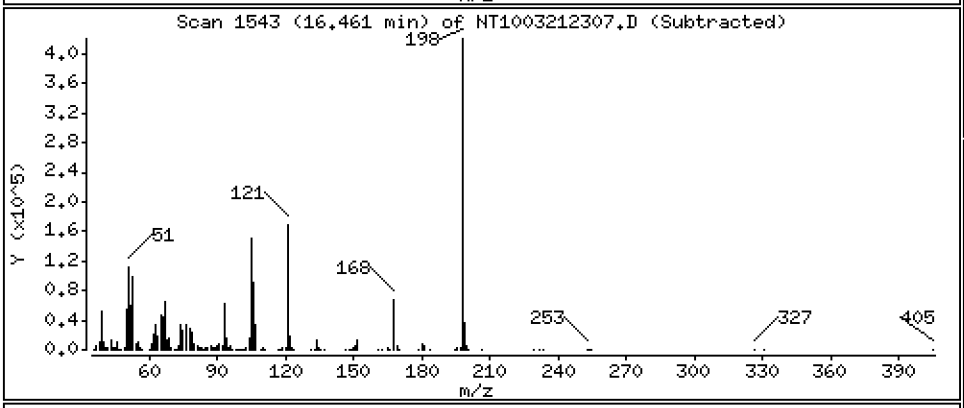
Column diameter: 0.25

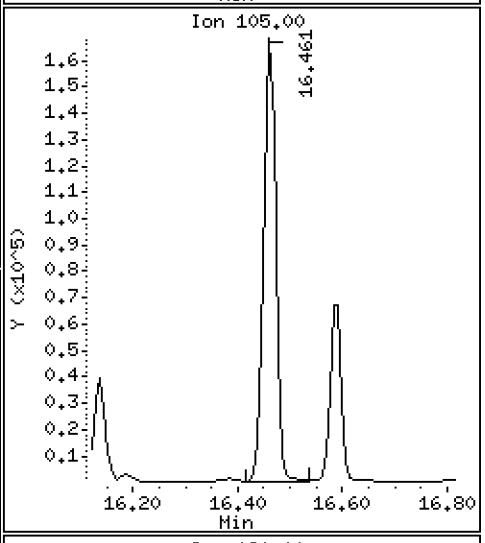
53 4,6-Dinitro-2-methylphenol

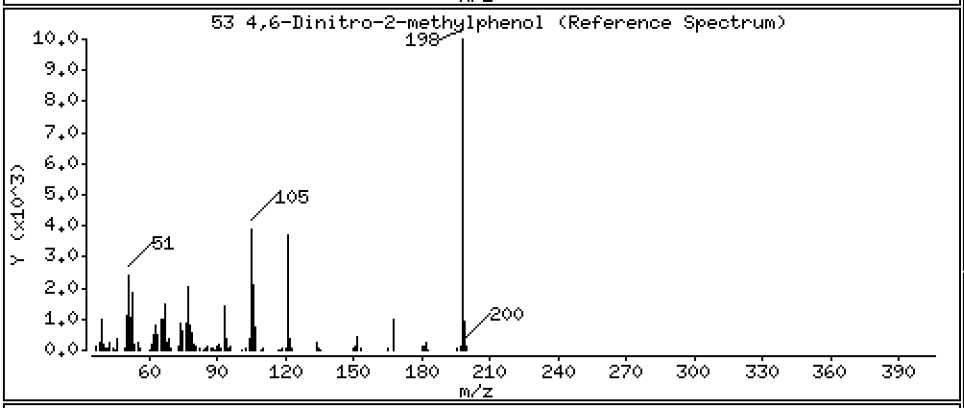
Concentration: 28.20 ug/mL

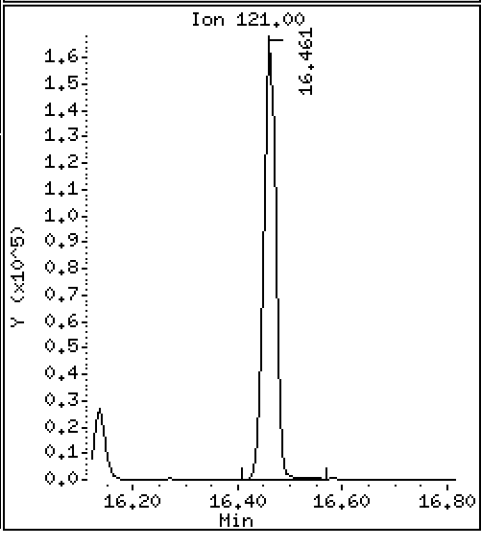


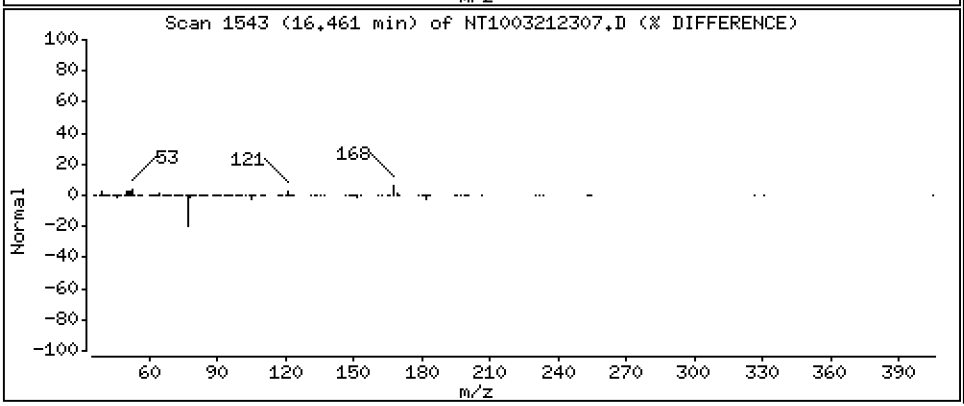












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Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS1

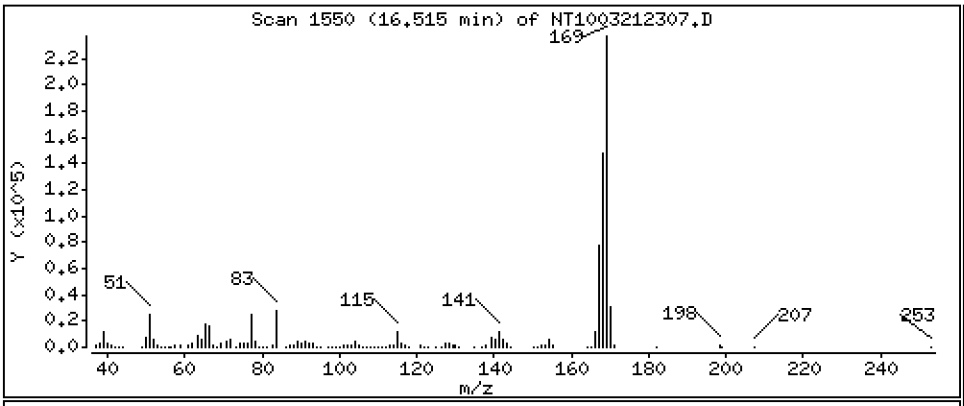
Operator: VTS

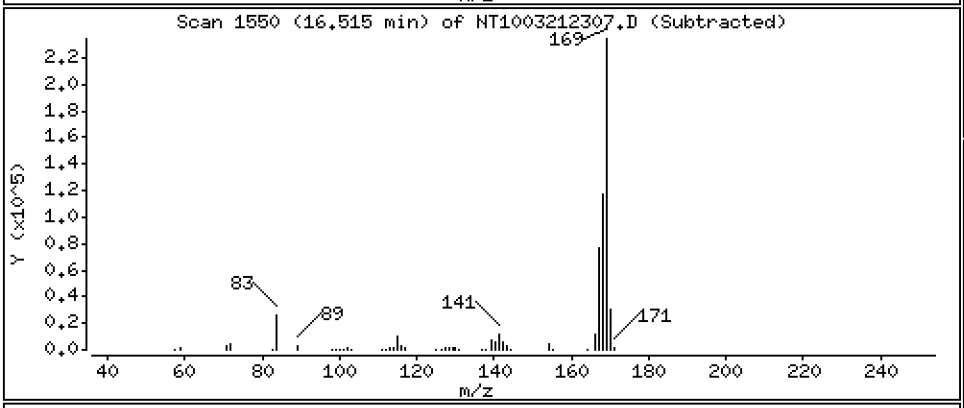
Column phase: ZB-5msi

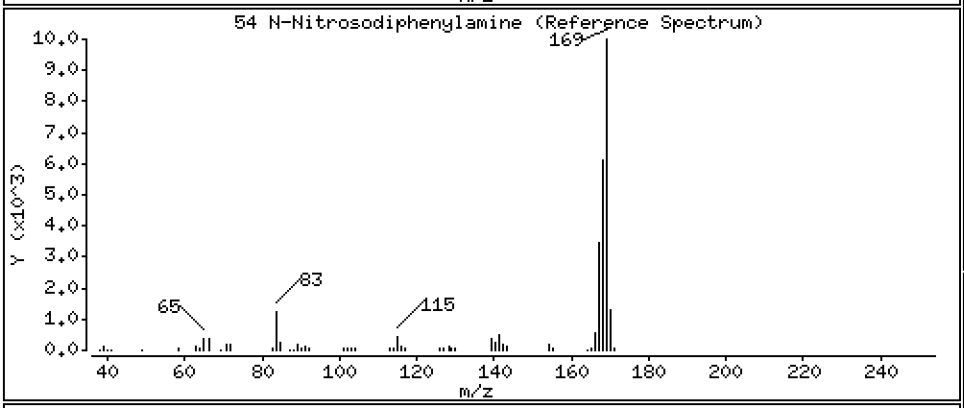
Column diameter: 0.25

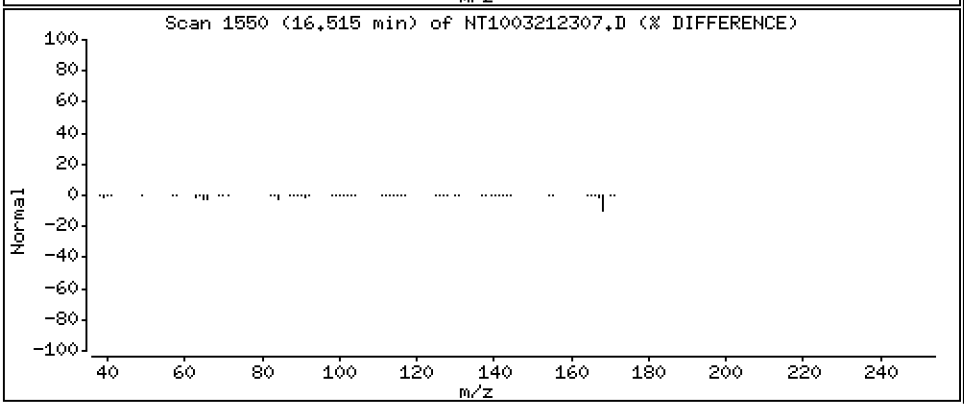
54 N-Nitrosodiphenylamine

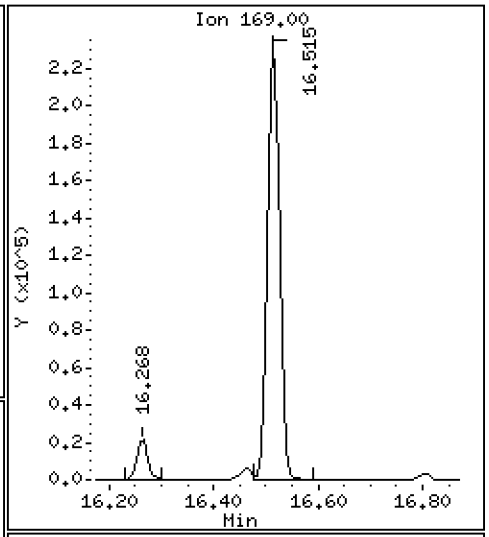
Concentration: 3.440 ug/mL

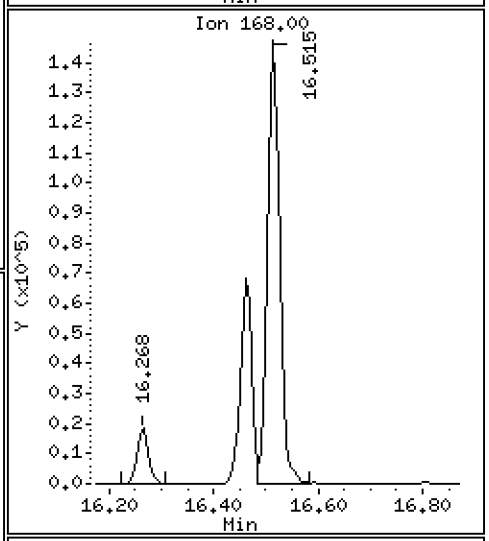


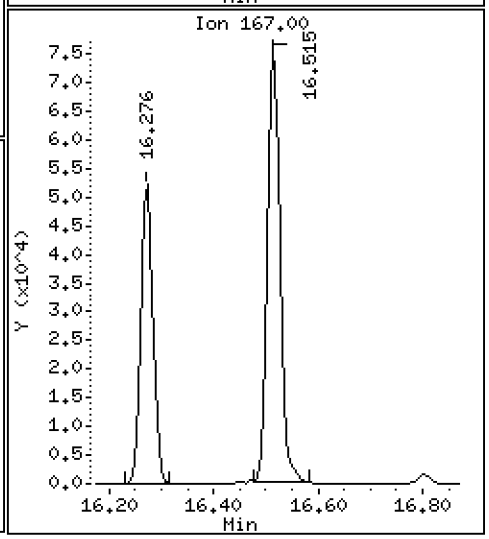












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Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS1

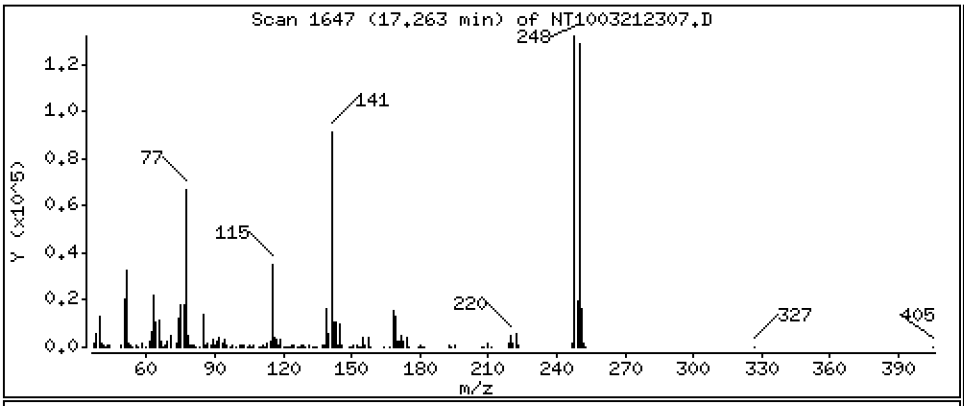
Operator: VTS

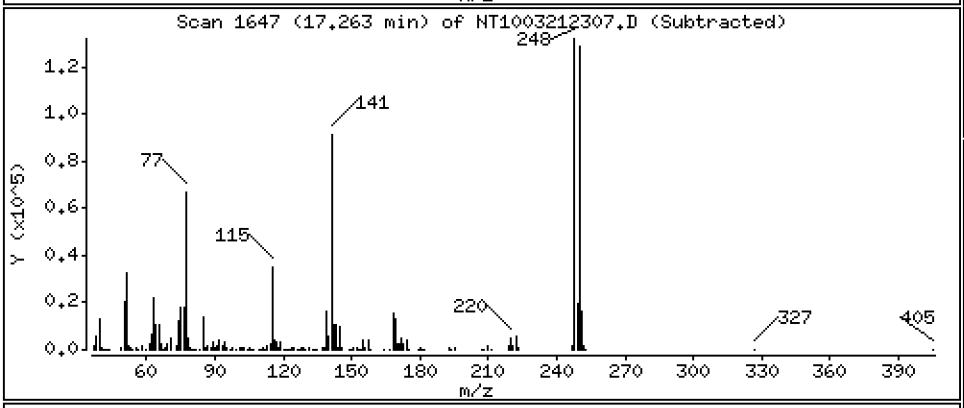
Column phase: ZB-5msi

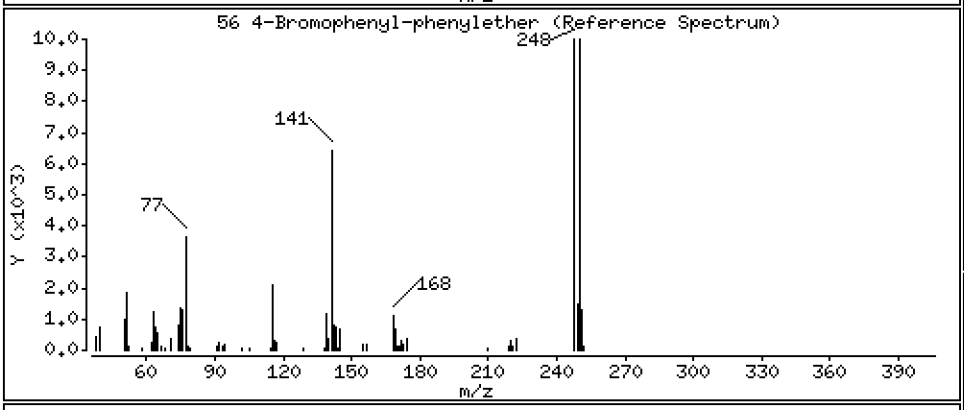
Column diameter: 0.25

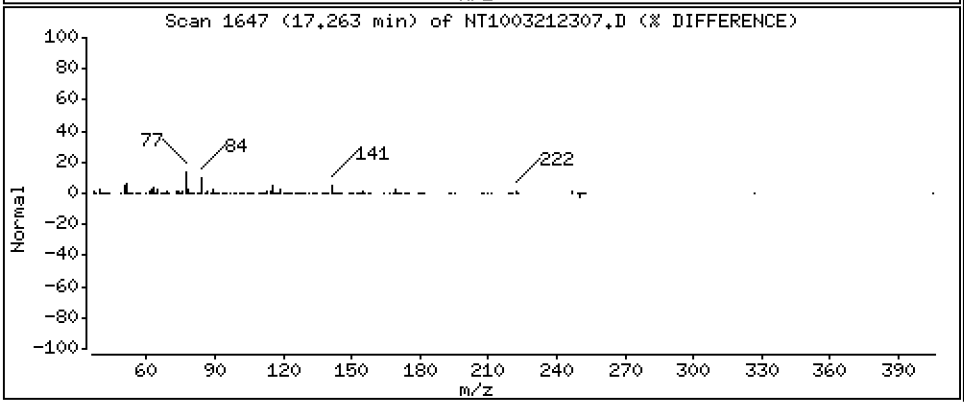
56 4-Bromophenyl-phenylether

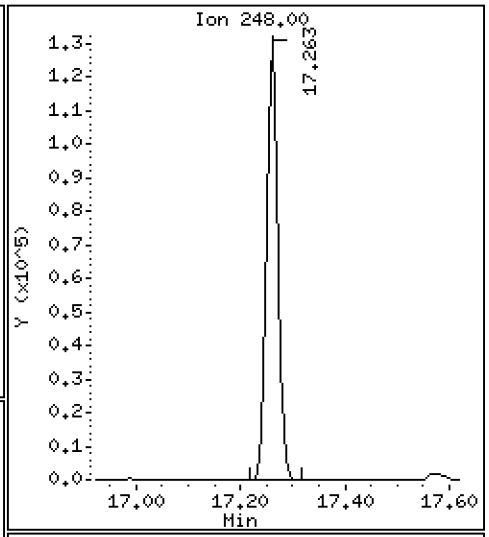
Concentration: 4.750 ug/mL

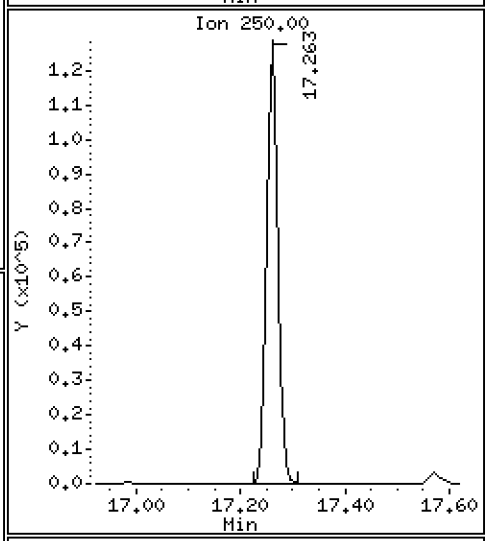


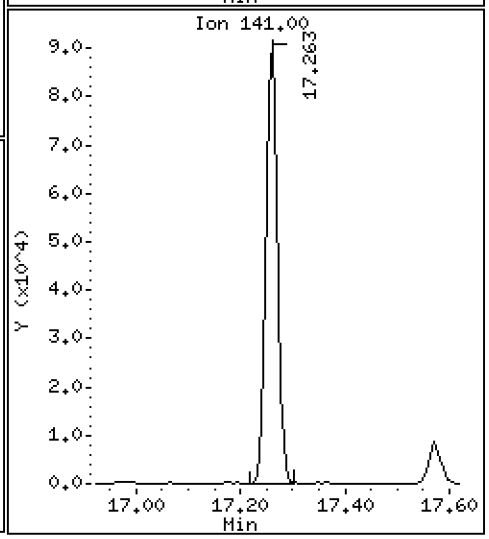












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Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS1

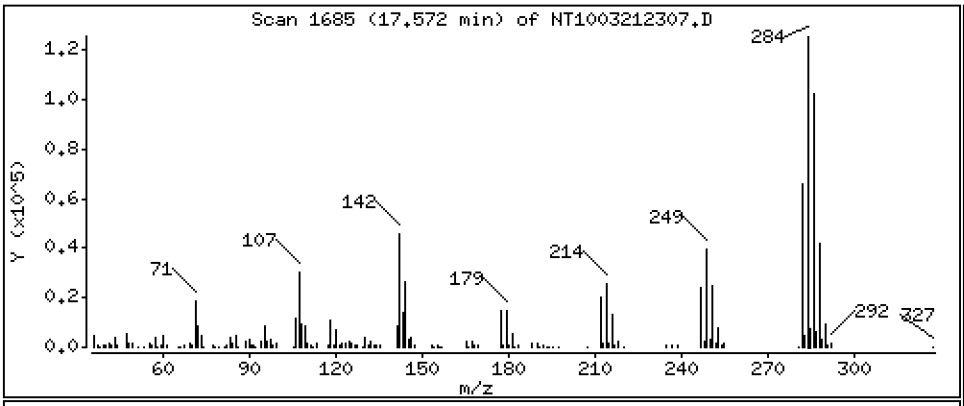
Operator: VTS

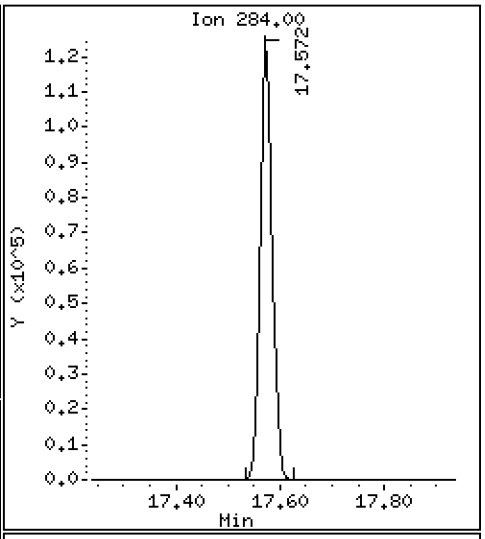
Column phase: ZB-5msi

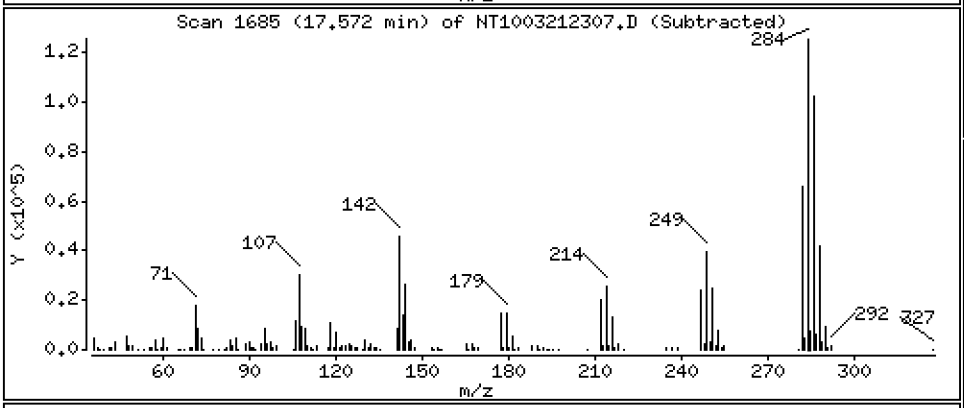
Column diameter: 0.25

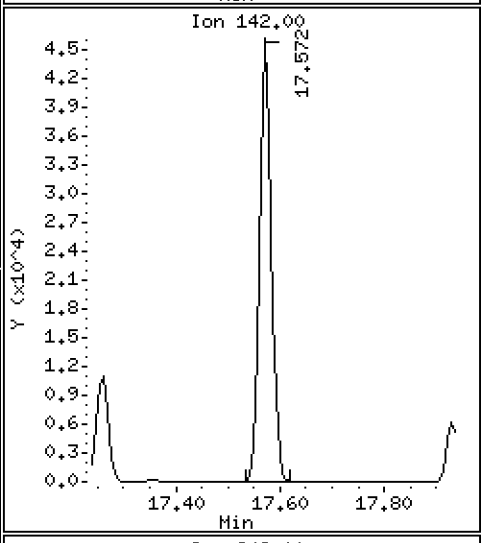
57 Hexachlorobenzene

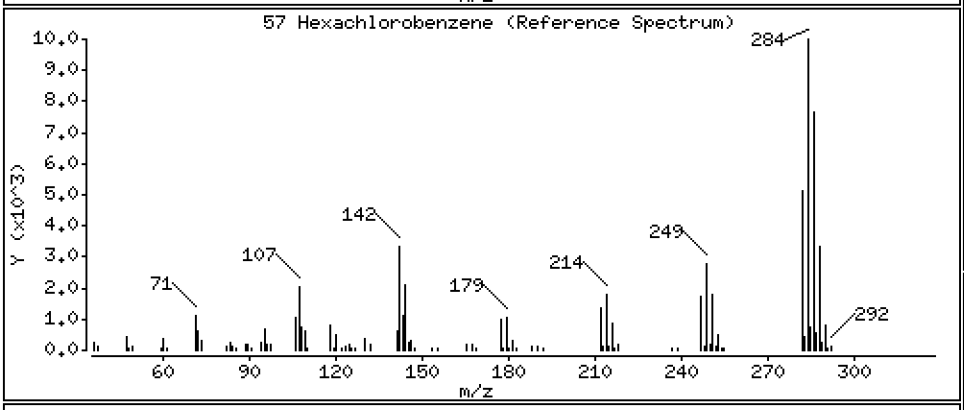
Concentration: 4.474 ug/mL

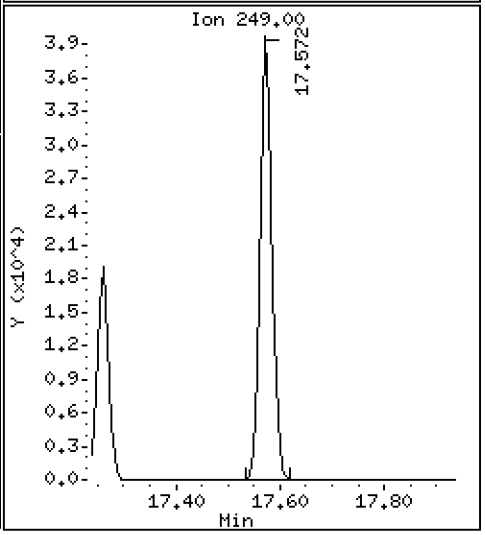


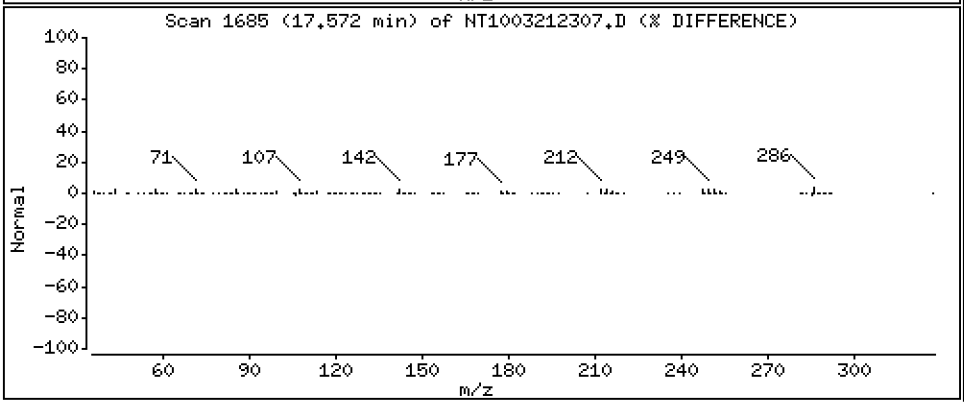












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212307.D

Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS1

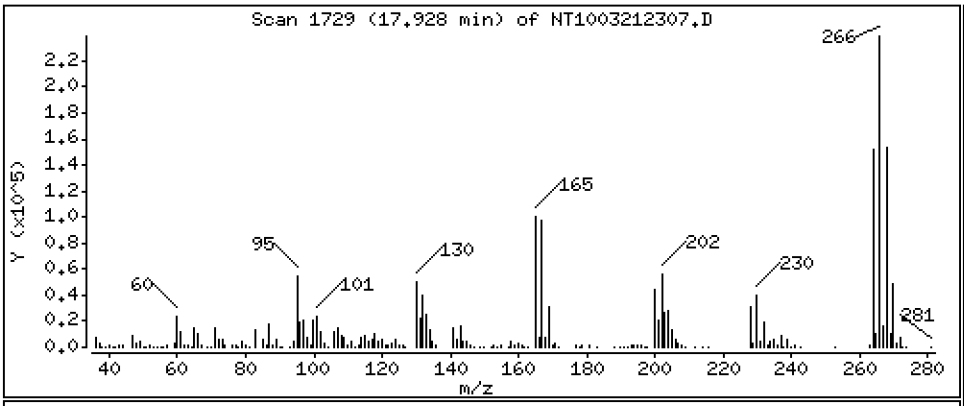
Operator: VTS

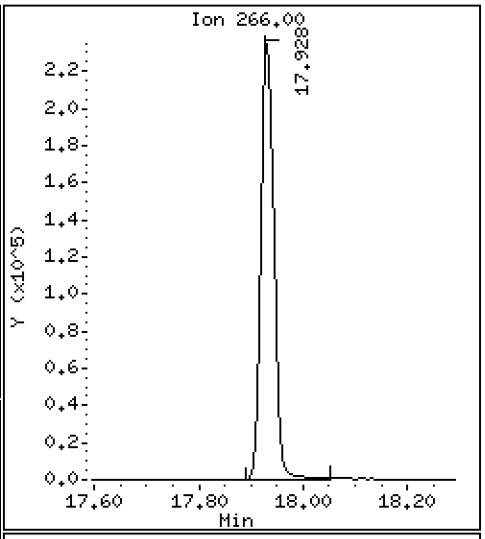
Column phase: ZB-5msi

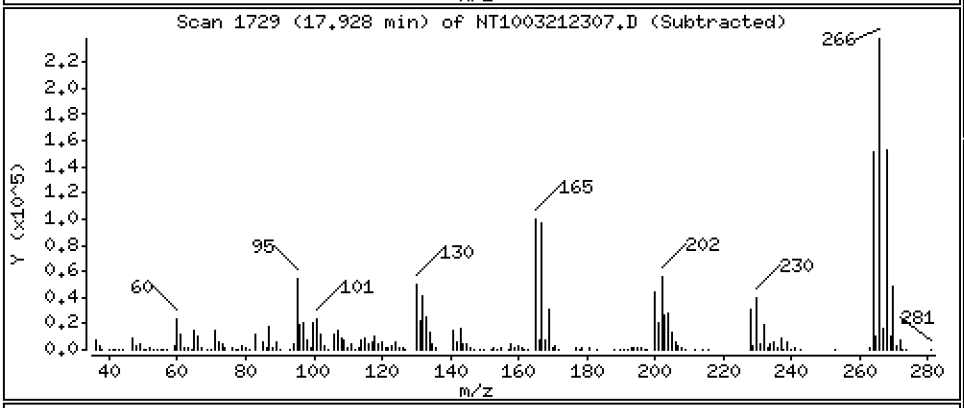
Column diameter: 0.25

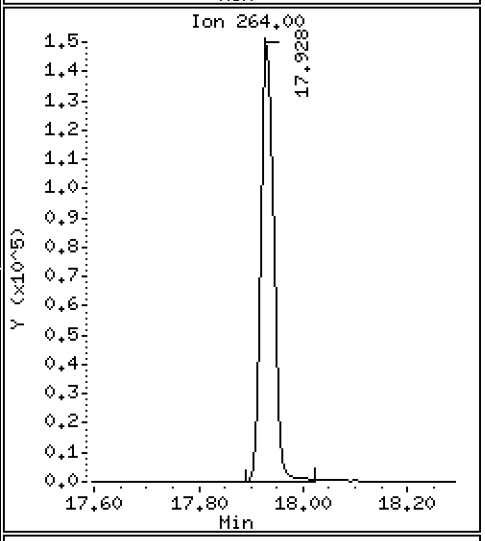
58 Pentachlorophenol

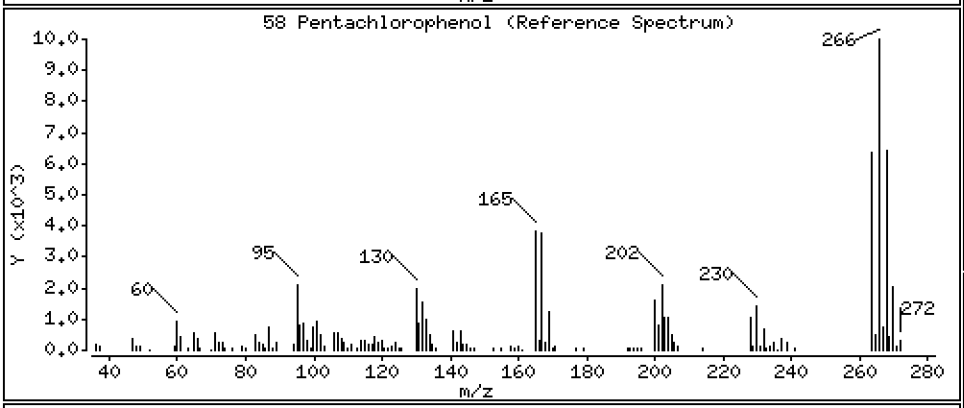
Concentration: 14.57 ug/mL

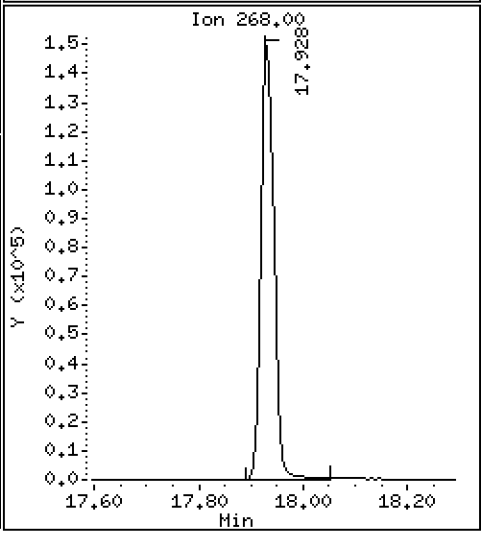


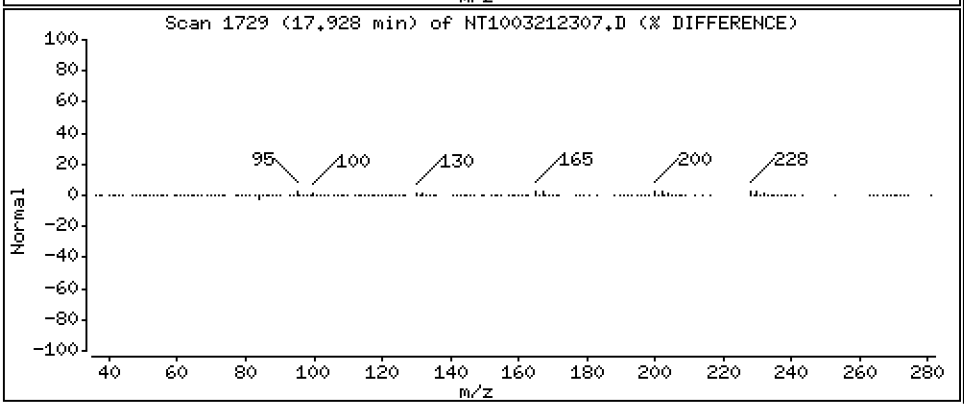












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Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS1

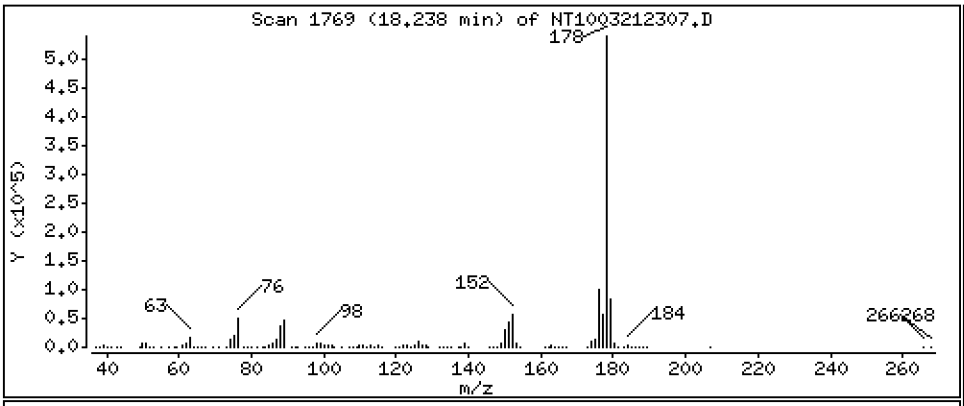
Operator: VTS

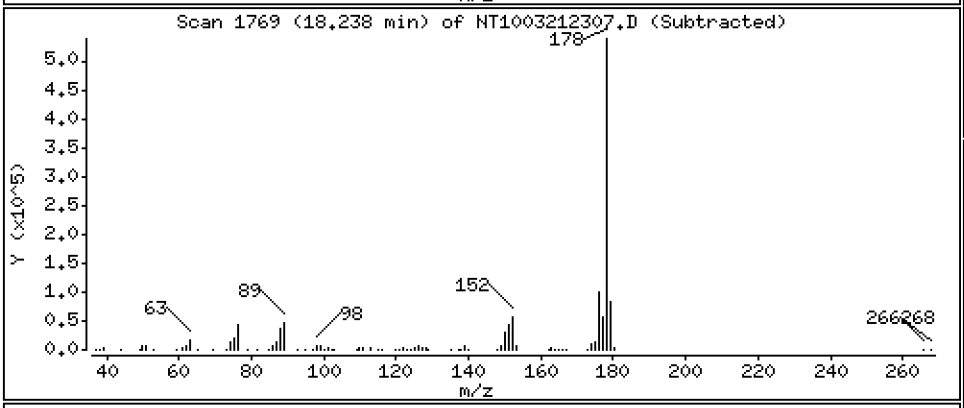
Column phase: ZB-5msi

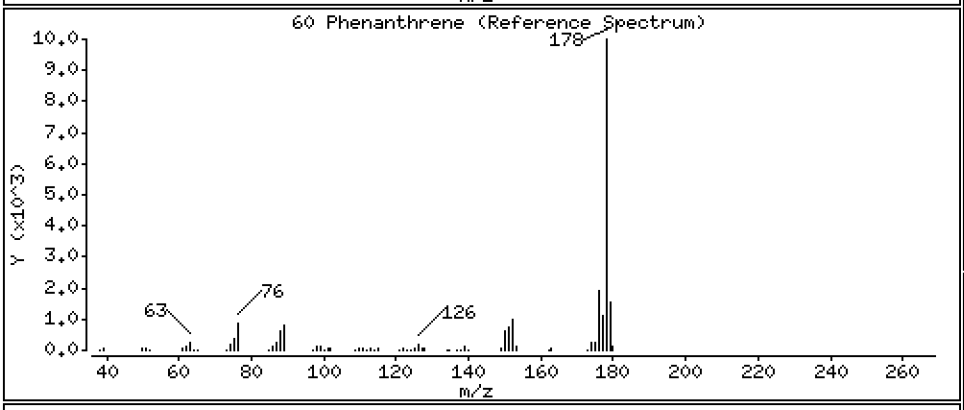
Column diameter: 0.25

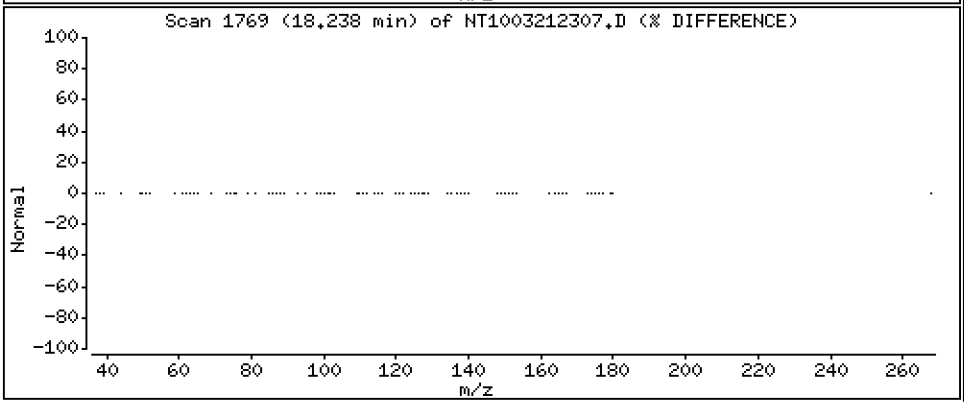
60 Phenanthrene

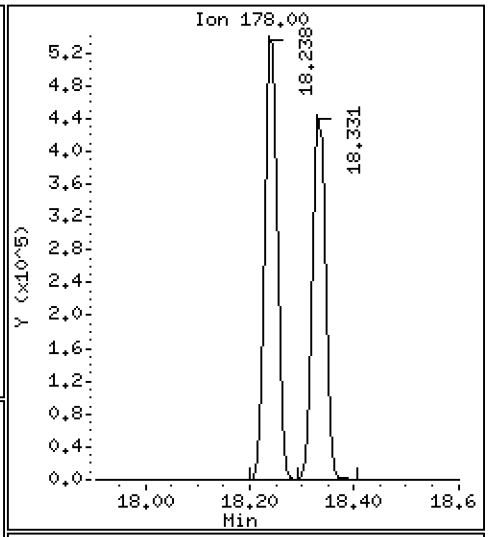
Concentration: 4.187 ug/mL

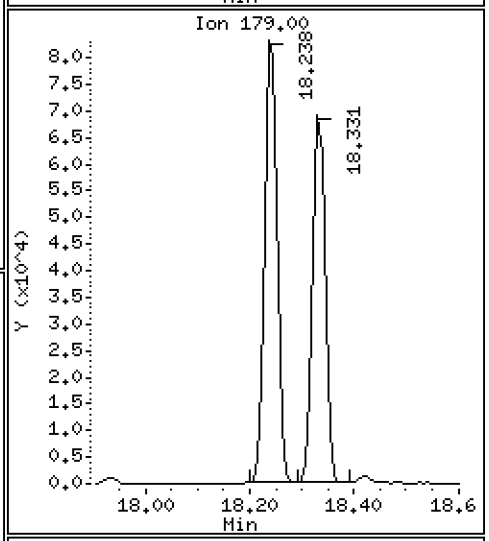


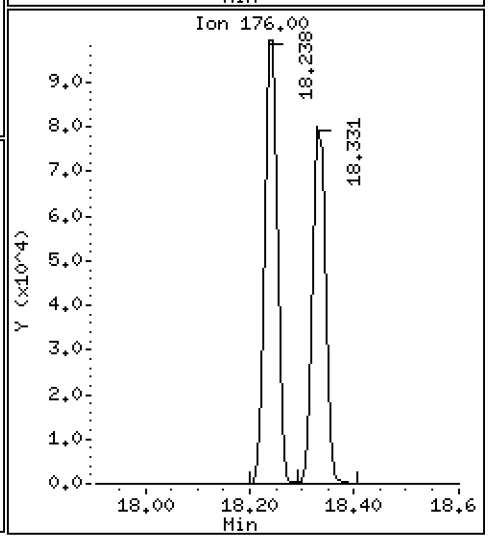












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212307.D

Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS1

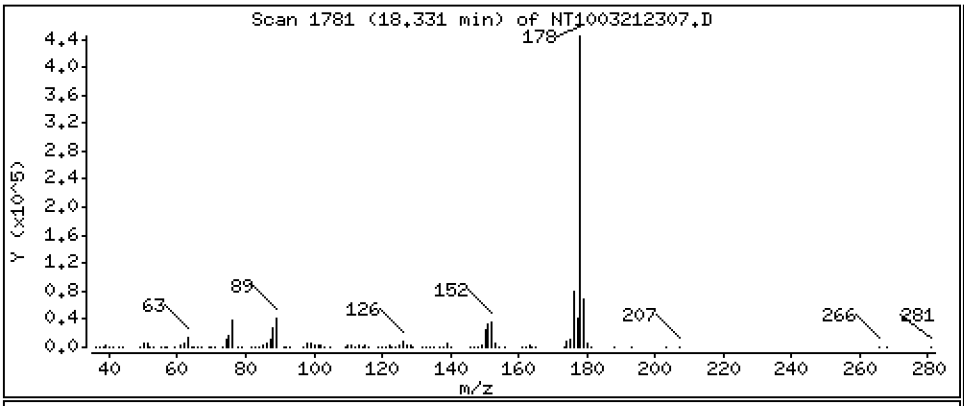
Operator: VTS

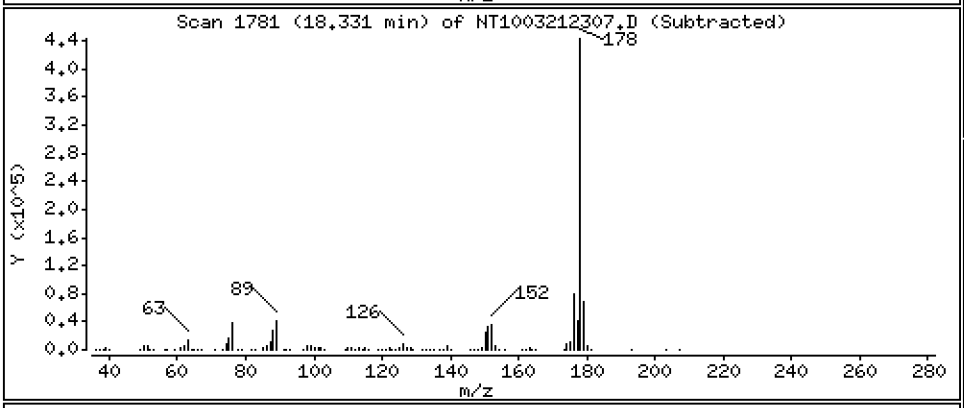
Column phase: ZB-5msi

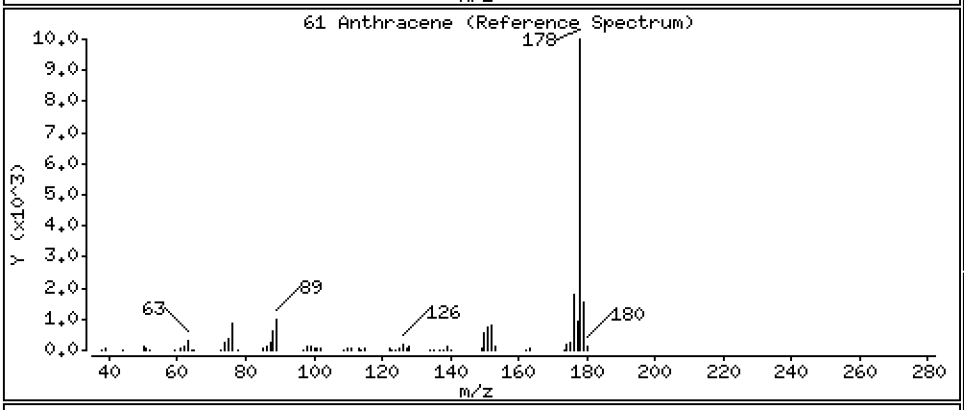
Column diameter: 0.25

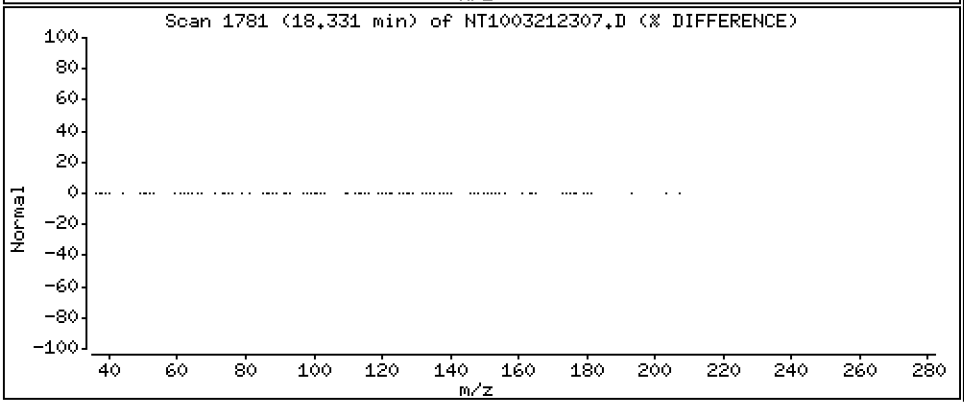
61 Anthracene

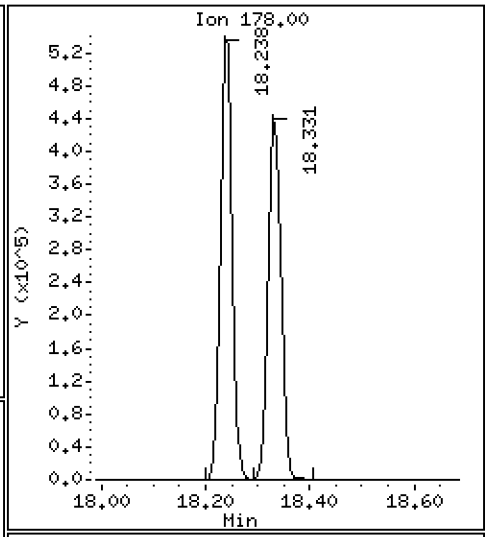
Concentration: 3.660 ug/mL

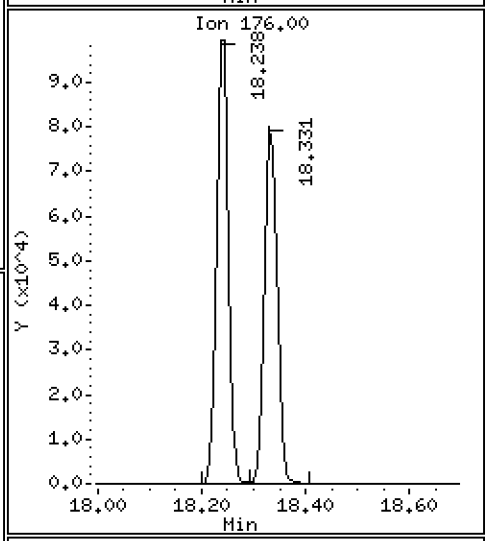


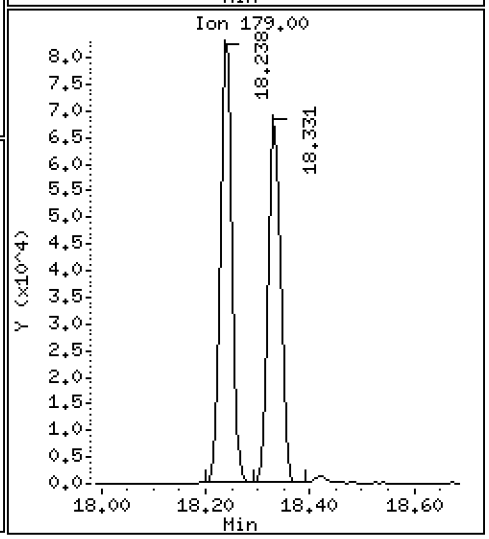












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Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS1

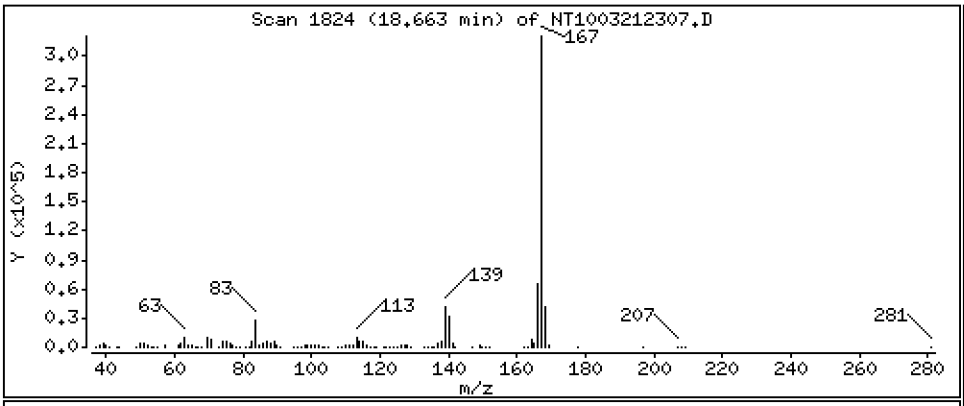
Operator: VTS

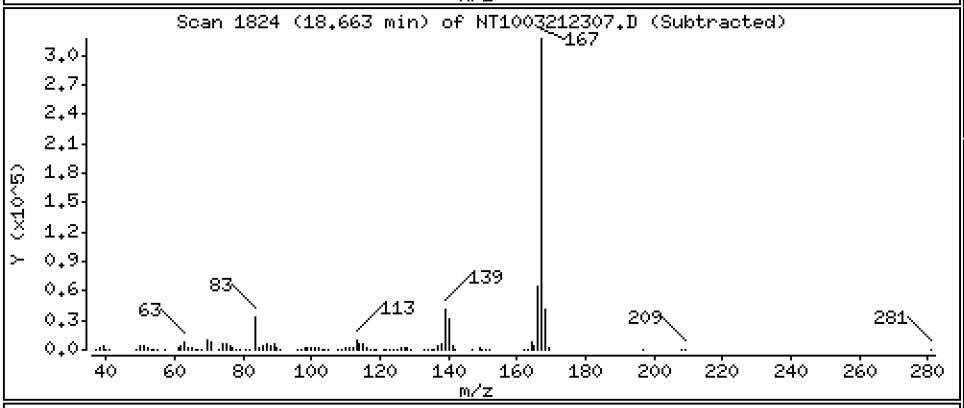
Column phase: ZB-5msi

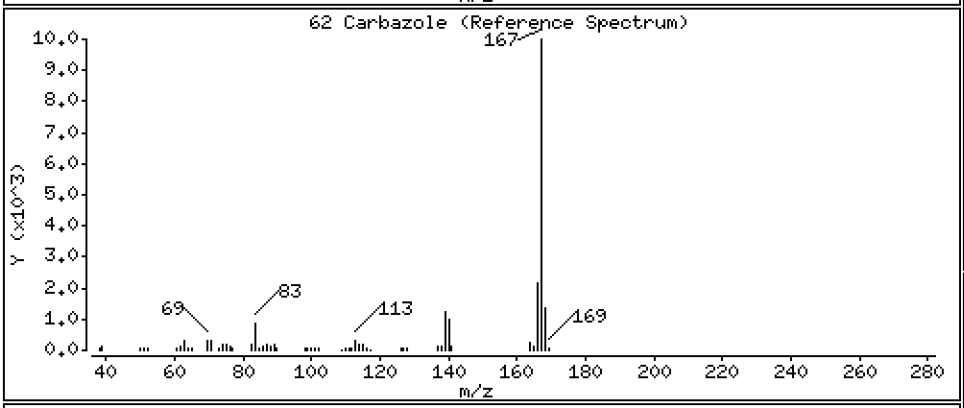
Column diameter: 0.25

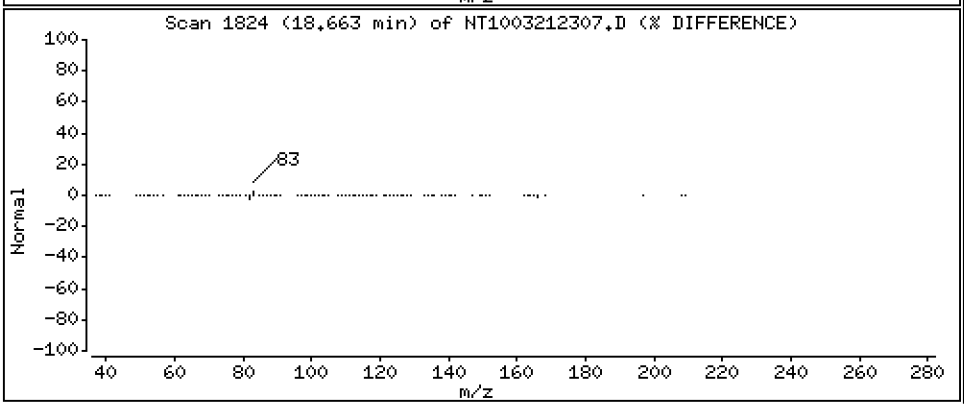
62 Carbazole

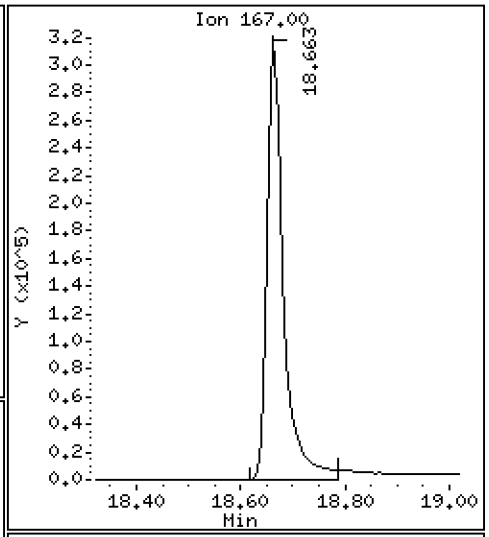
Concentration: 3.739 ug/mL

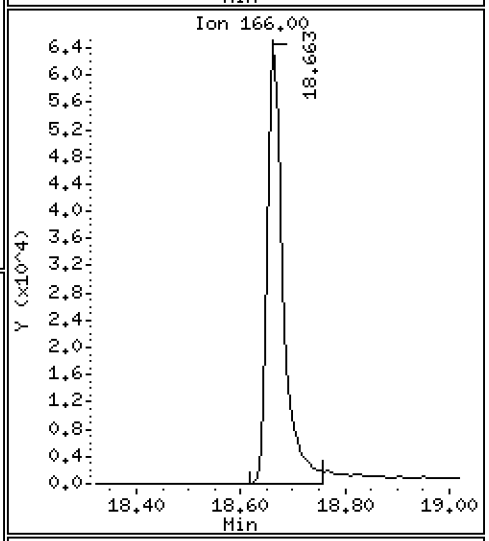


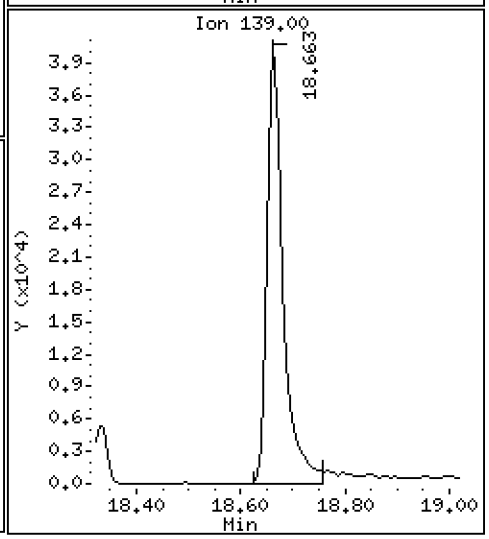












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Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS1

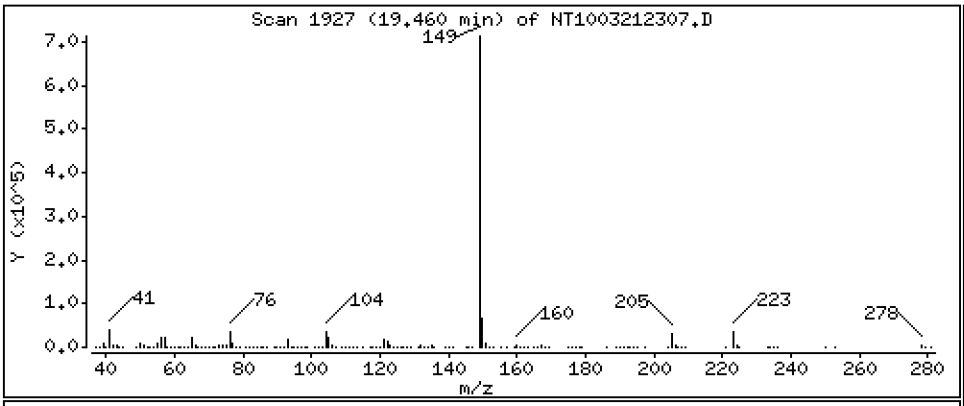
Operator: VTS

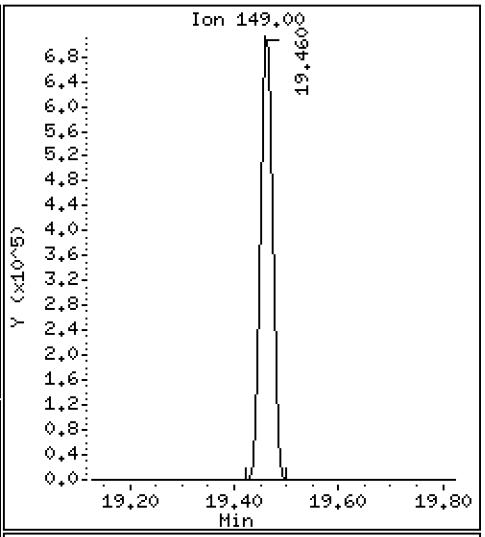
Column phase: ZB-5msi

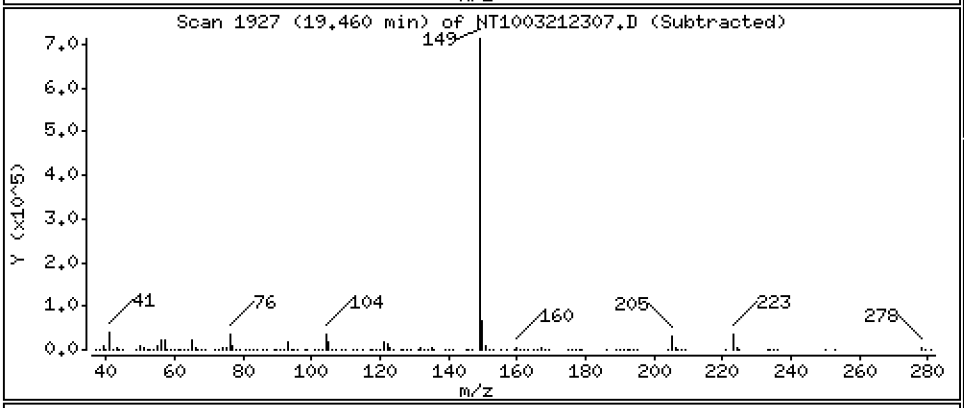
Column diameter: 0.25

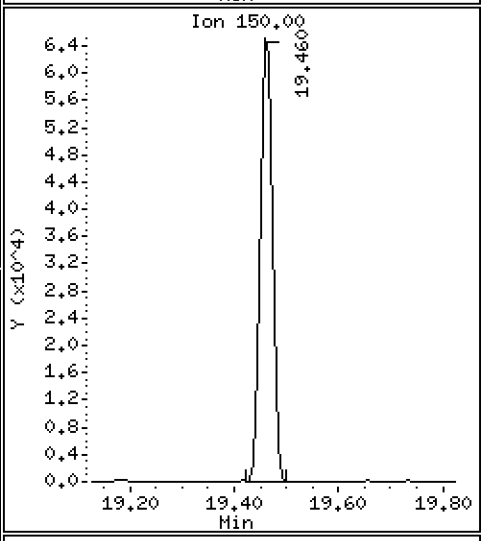
63 Di-n-butylphthalate

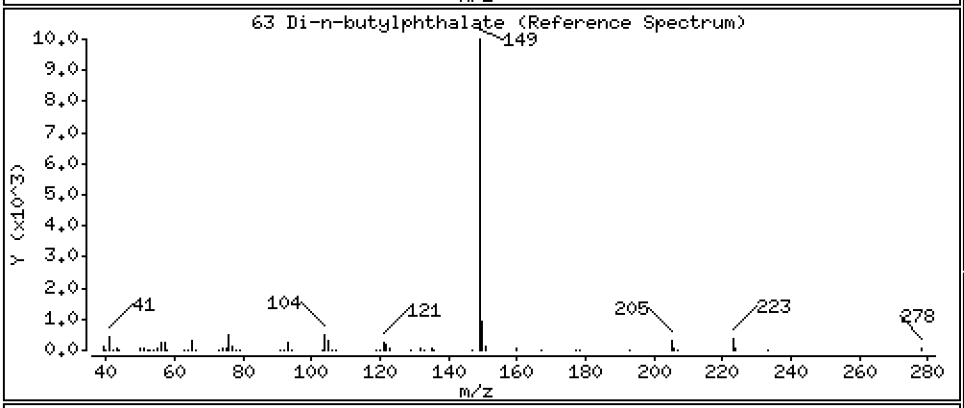
Concentration: 4.706 ug/mL

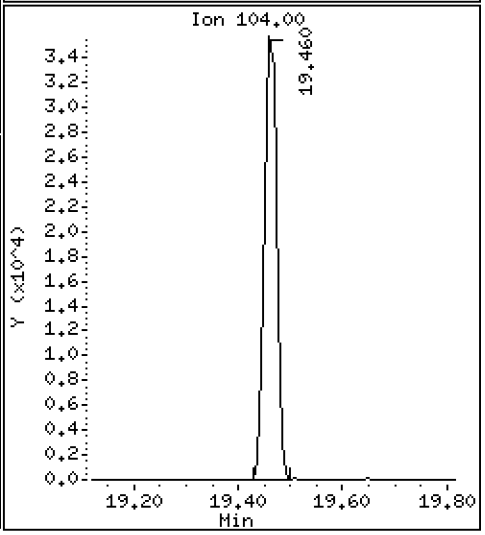


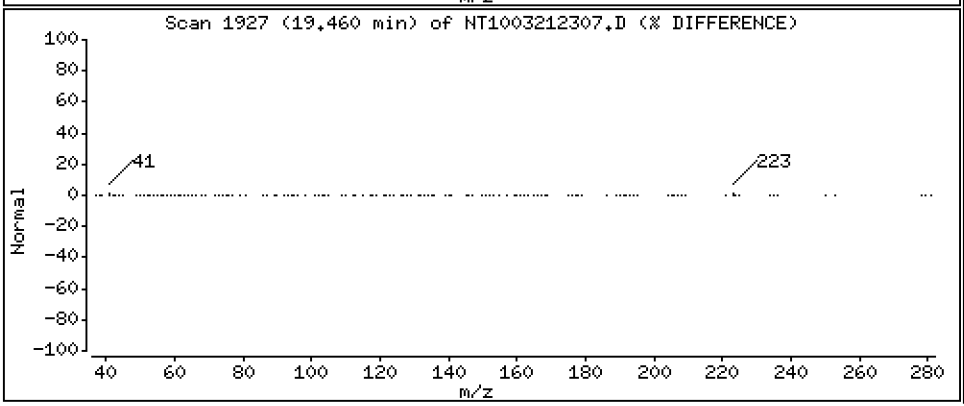












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Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS1

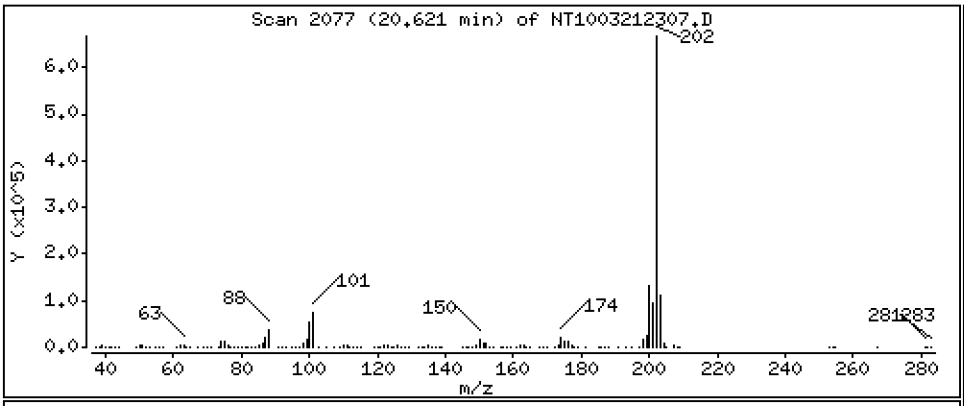
Operator: VTS

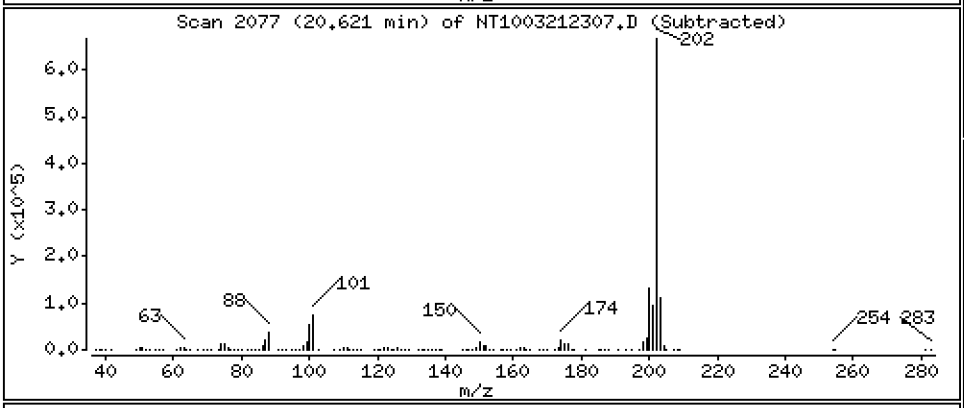
Column phase: ZB-5msi

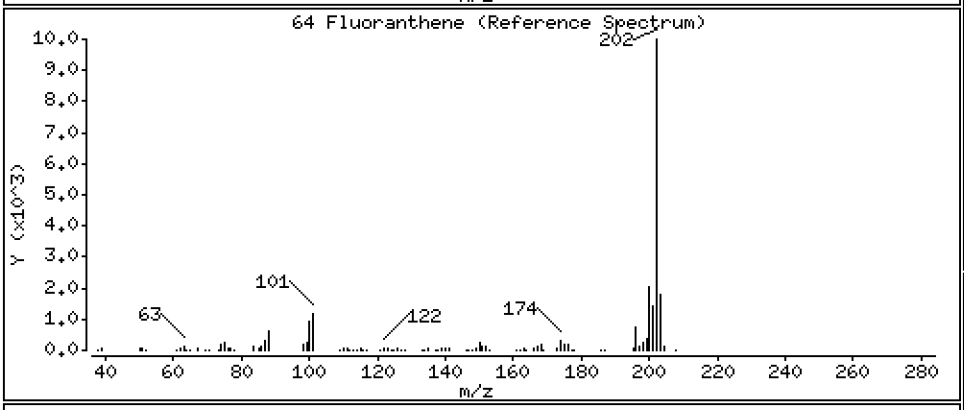
Column diameter: 0.25

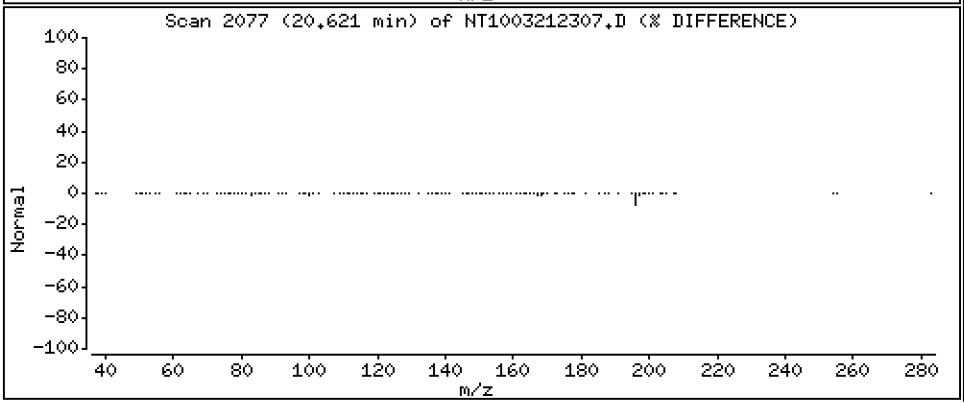
64 Fluoranthene

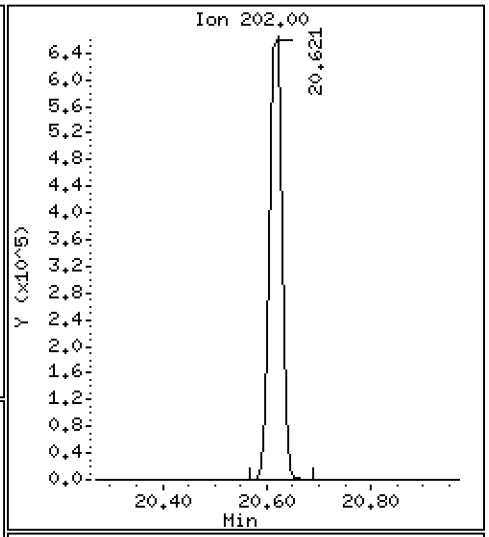
Concentration: 4.112 ug/mL

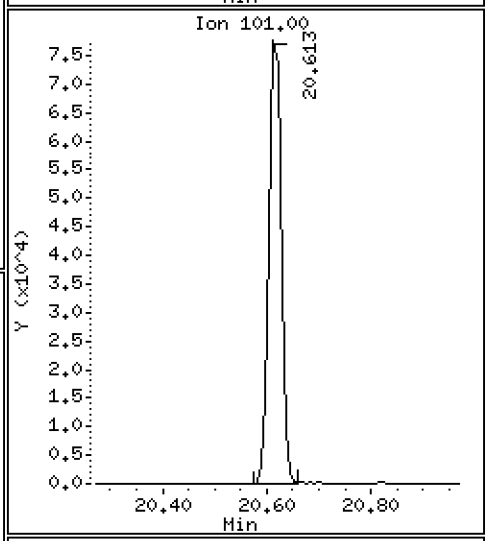


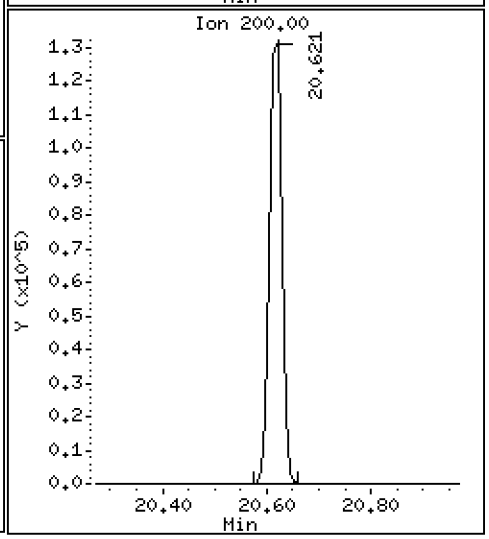












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Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS1

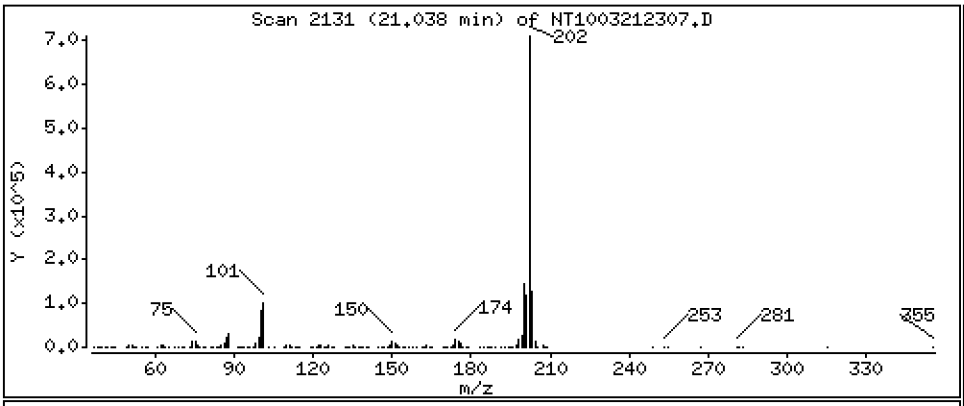
Operator: VTS

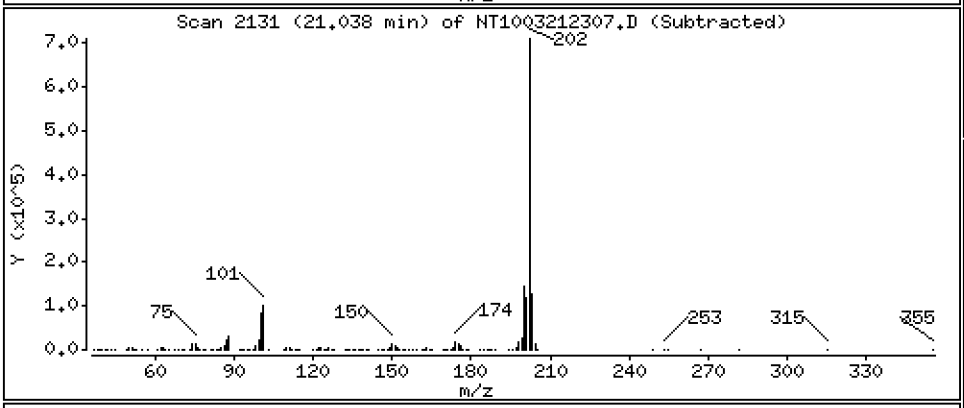
Column phase: ZB-5msi

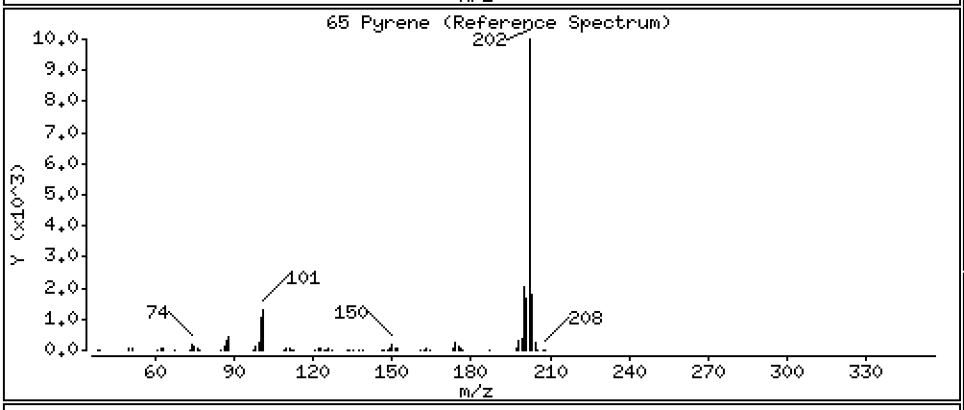
Column diameter: 0.25

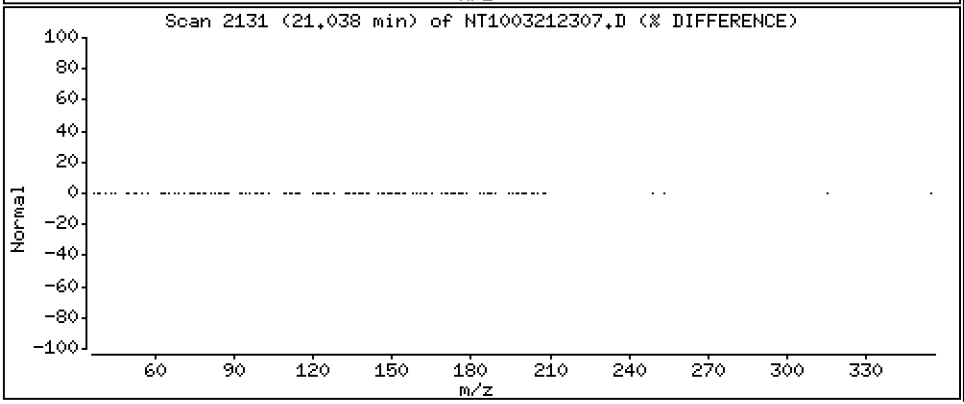
65 Pyrene

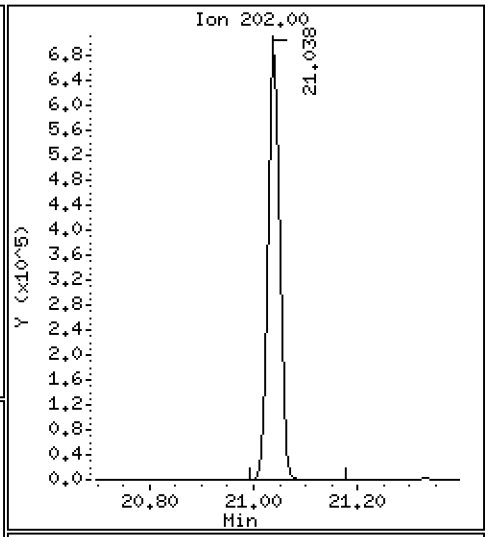
Concentration: 4.030 ug/mL

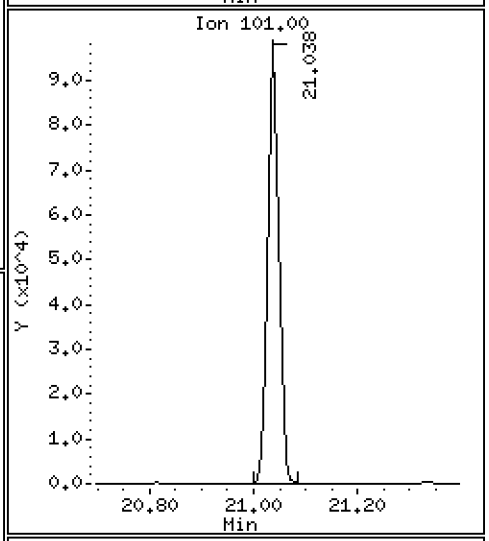


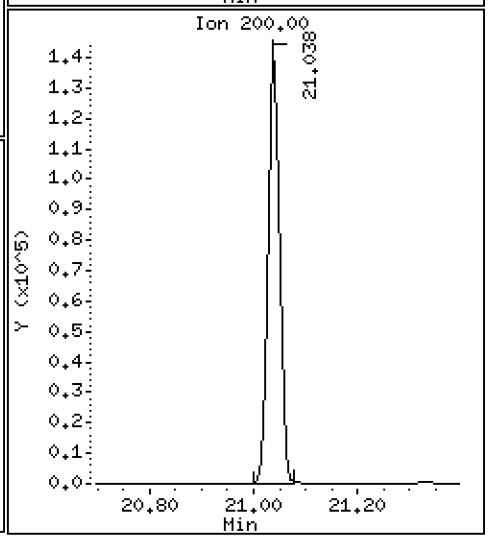












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212307.D

Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS1

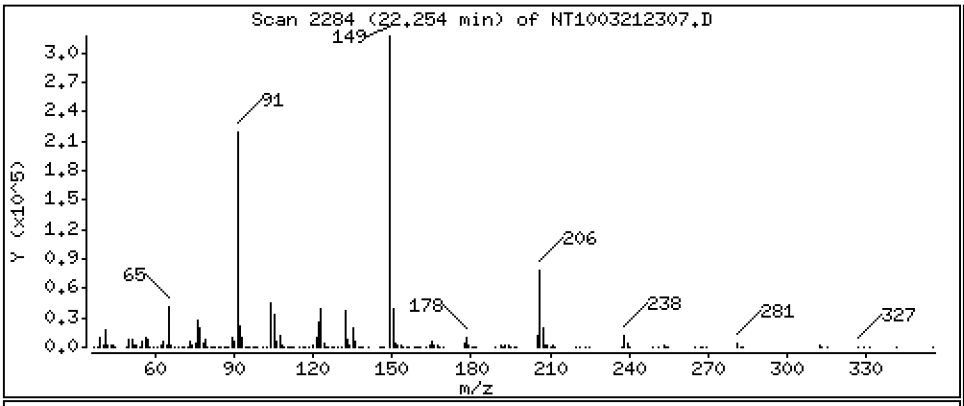
Operator: VTS

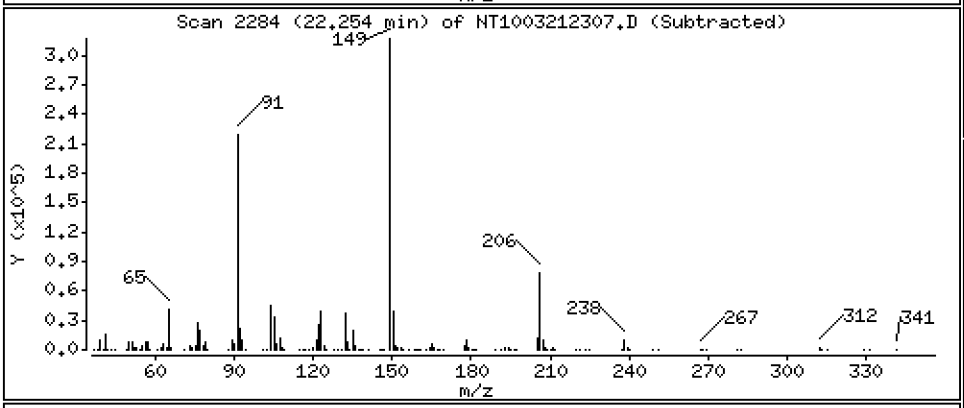
Column phase: ZB-5msi

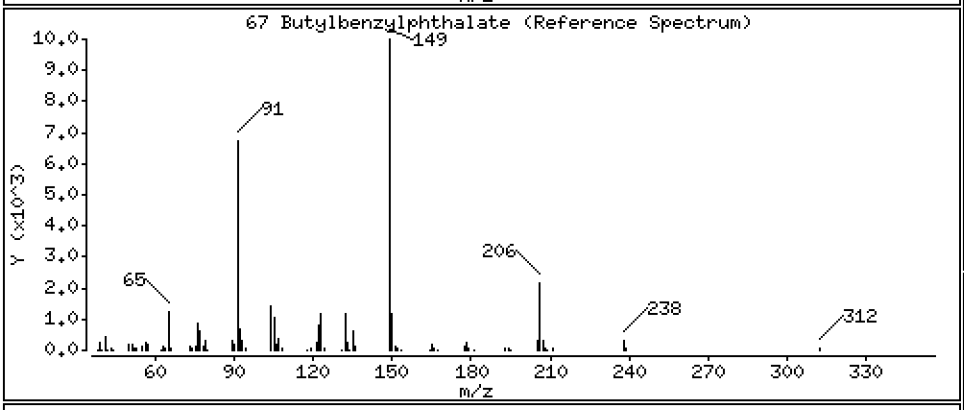
Column diameter: 0.25

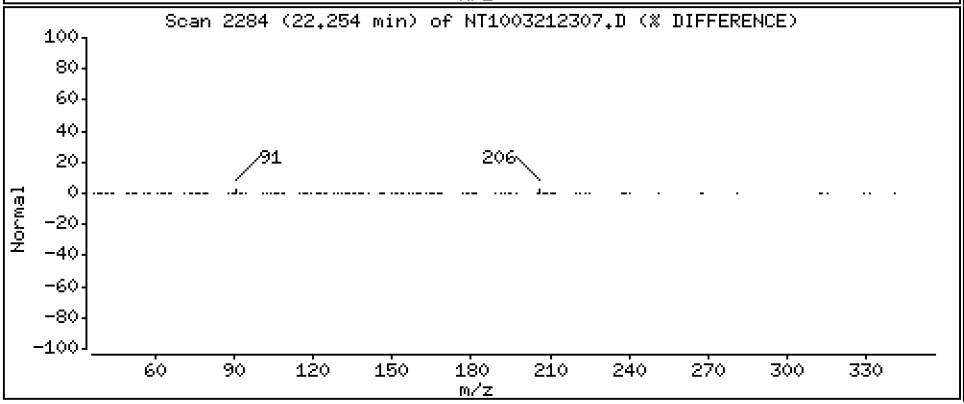
67 Butylbenzylphthalate

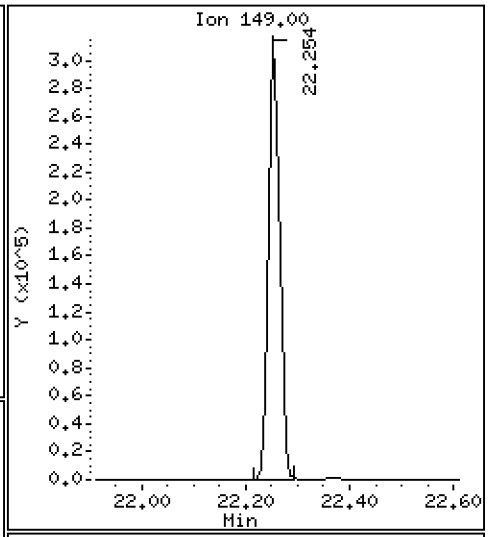
Concentration: 4.773 ug/mL

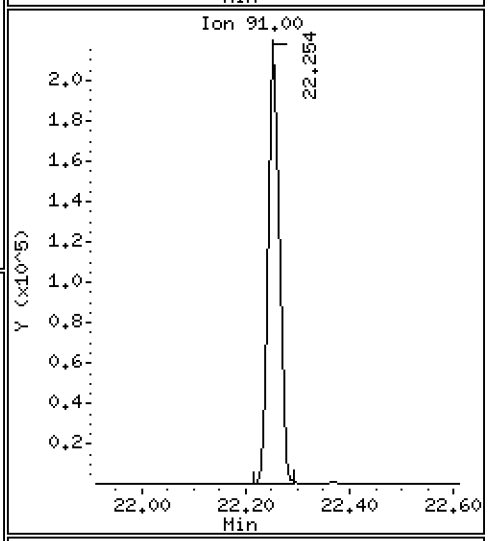


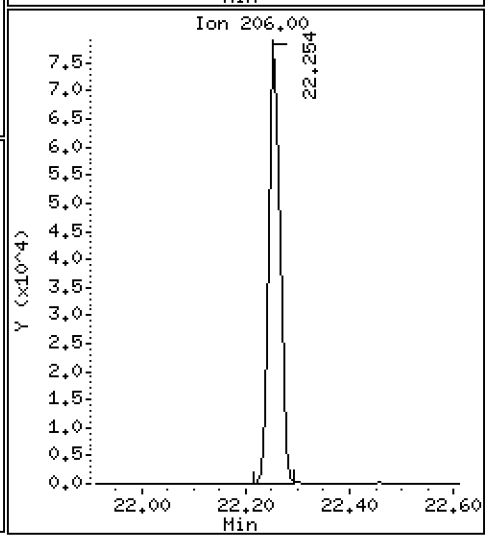












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Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS1

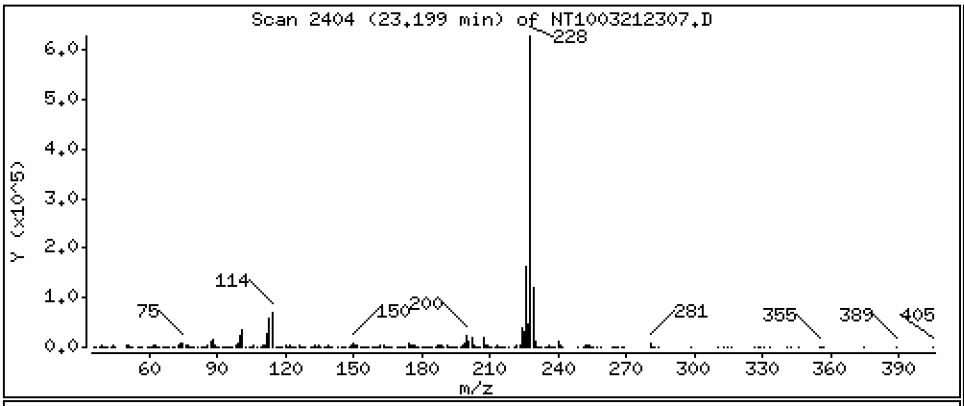
Operator: VTS

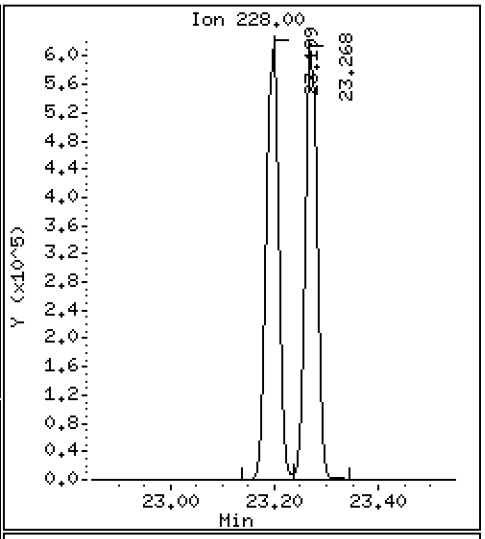
Column phase: ZB-5msi

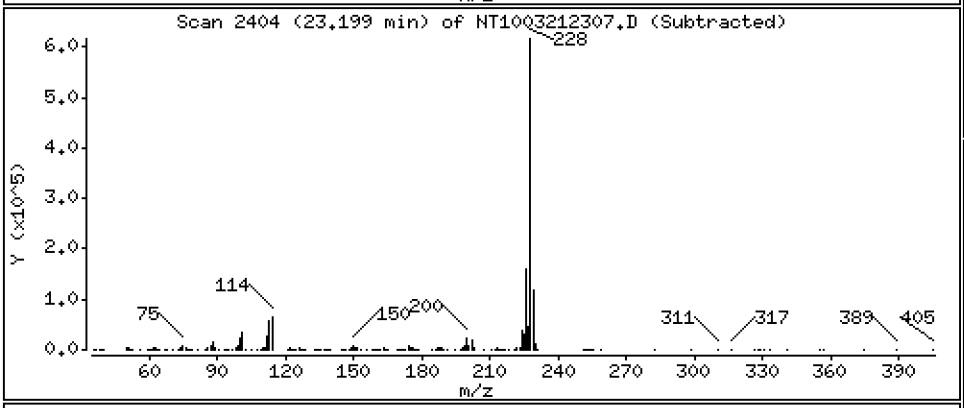
Column diameter: 0.25

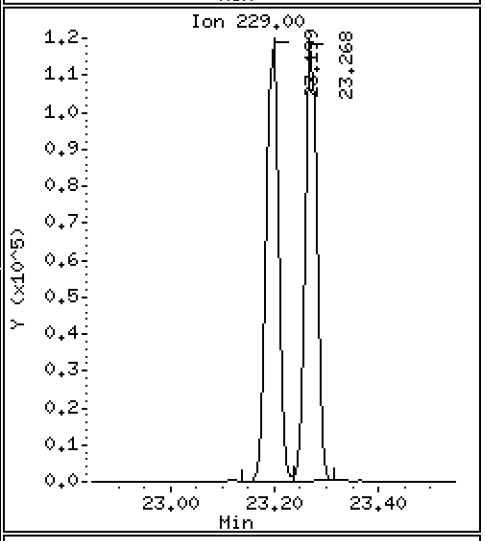
68 Benzo(a)anthracene

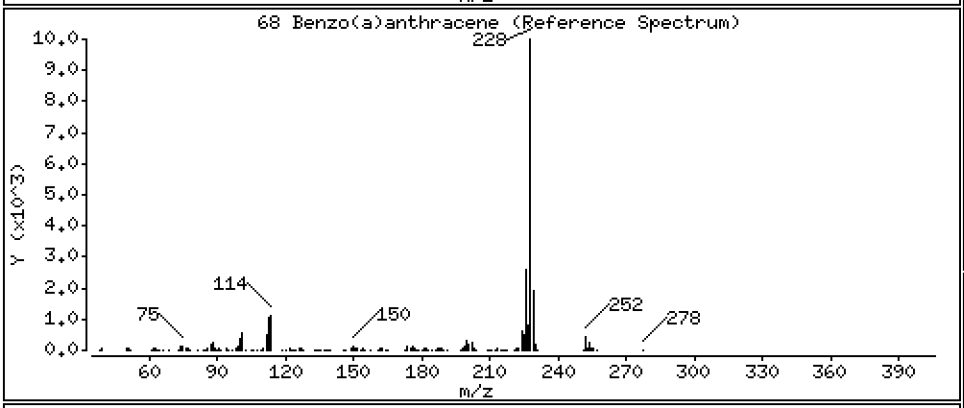
Concentration: 4.283 ug/mL

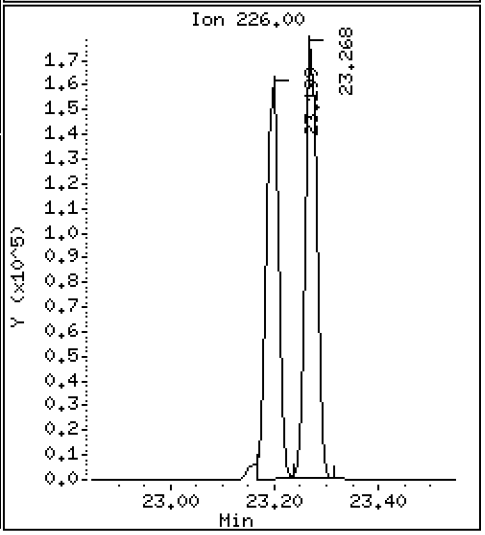


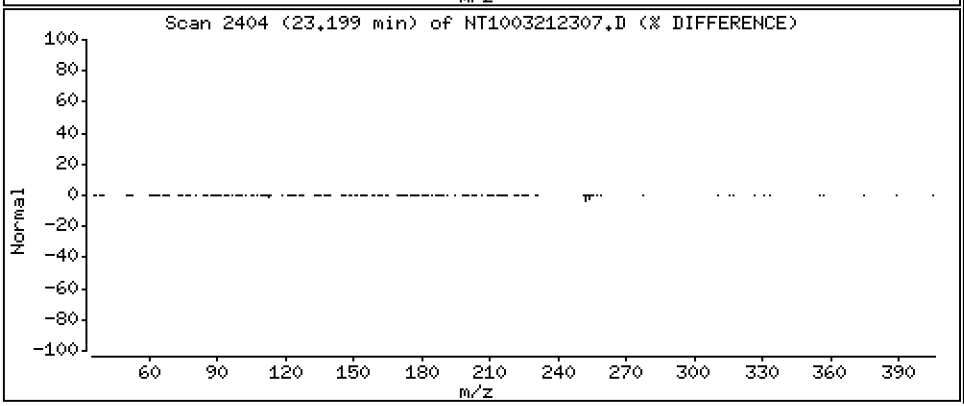












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Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS1

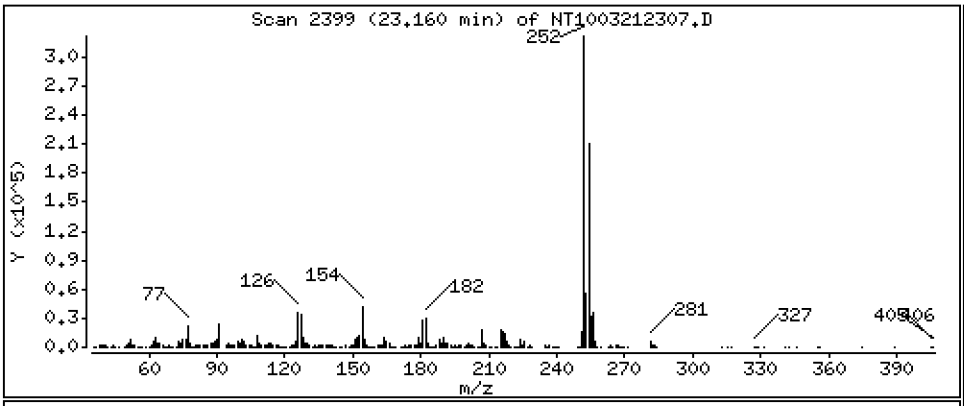
Operator: VTS

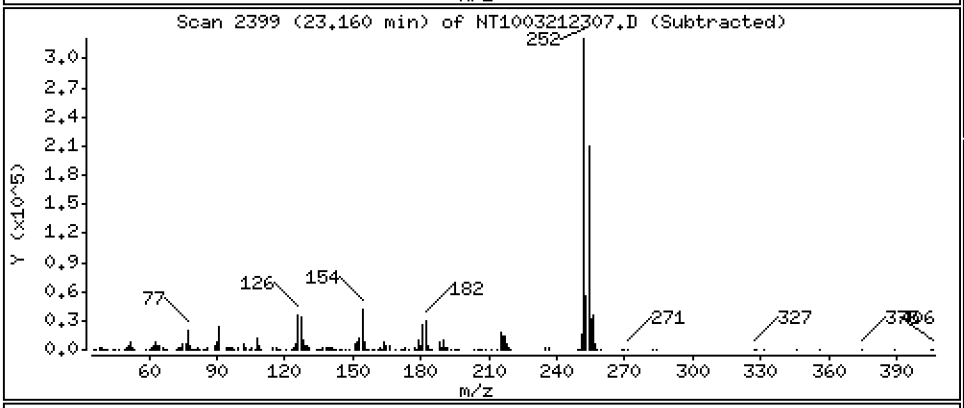
Column phase: ZB-5msi

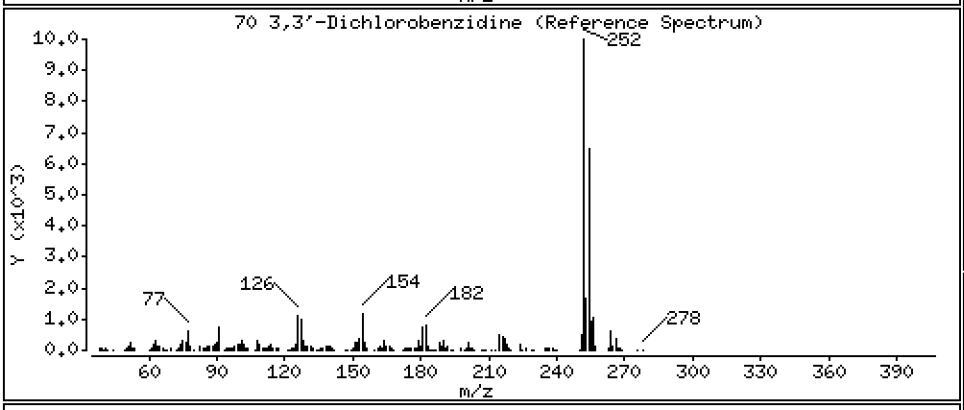
Column diameter: 0.25

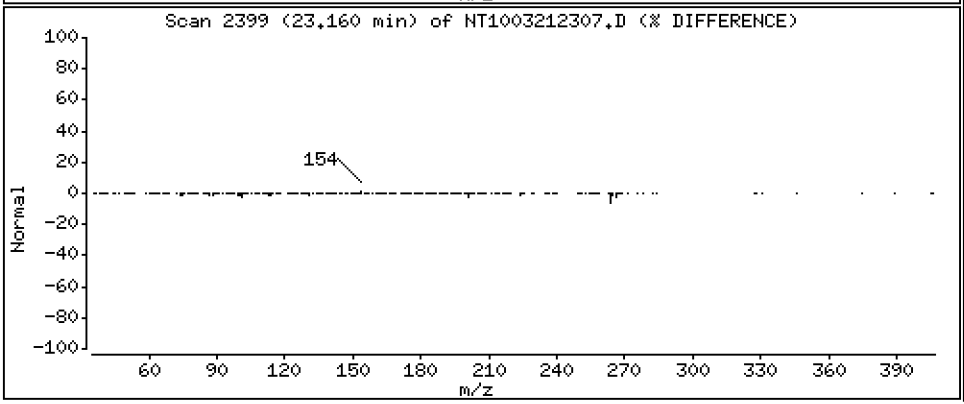
70 3,3'-Dichlorobenzidine

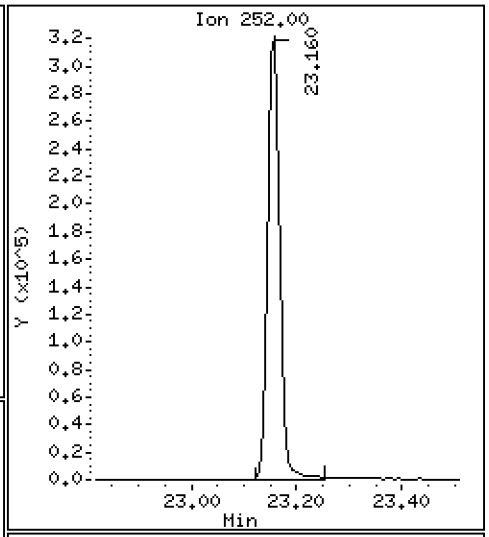
Concentration: 6.891 ug/mL

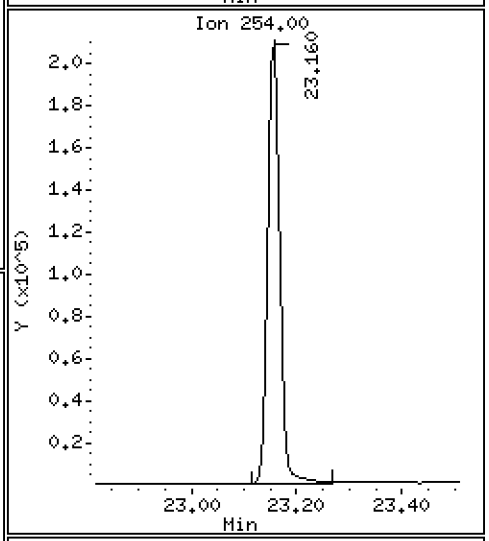


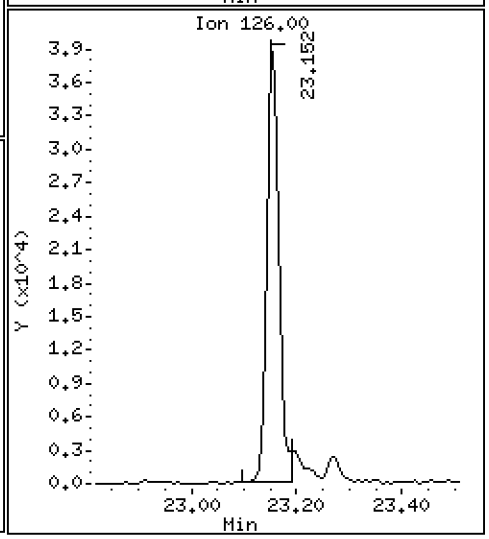












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Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS1

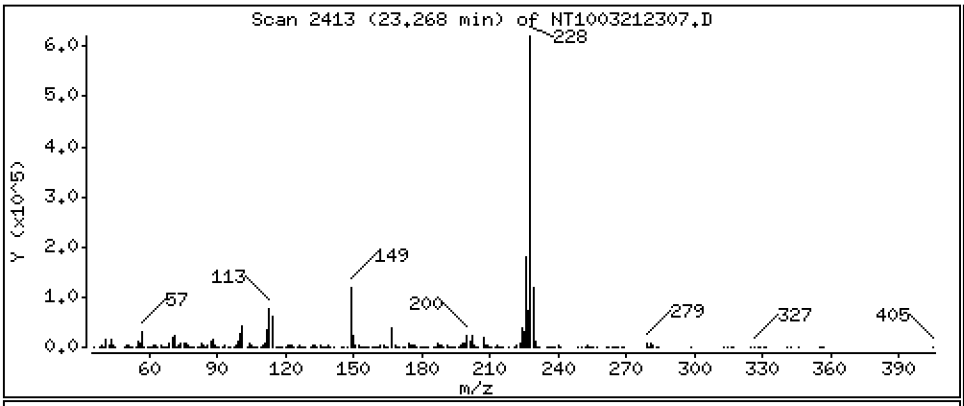
Operator: VTS

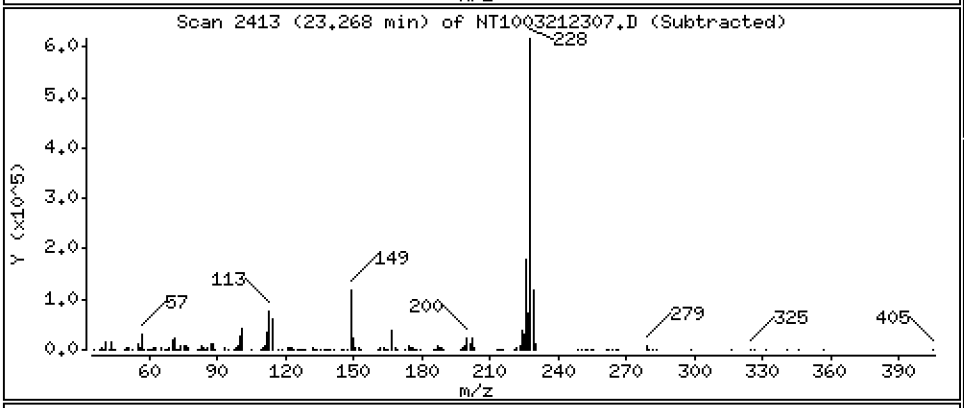
Column phase: ZB-5msi

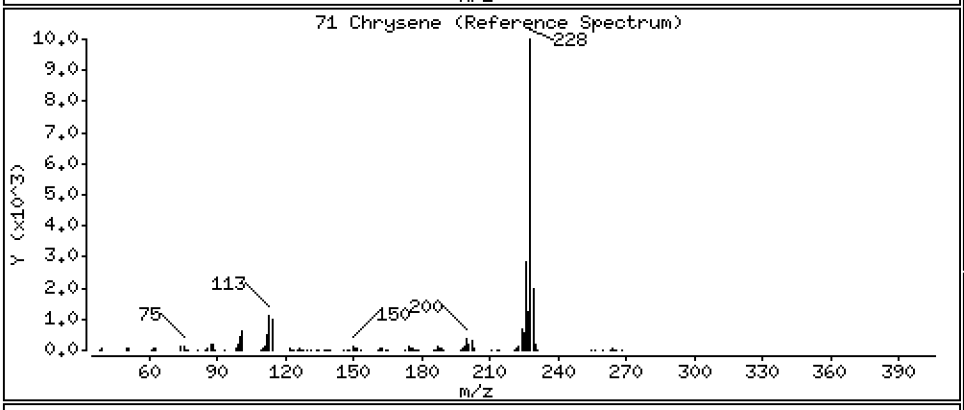
Column diameter: 0.25

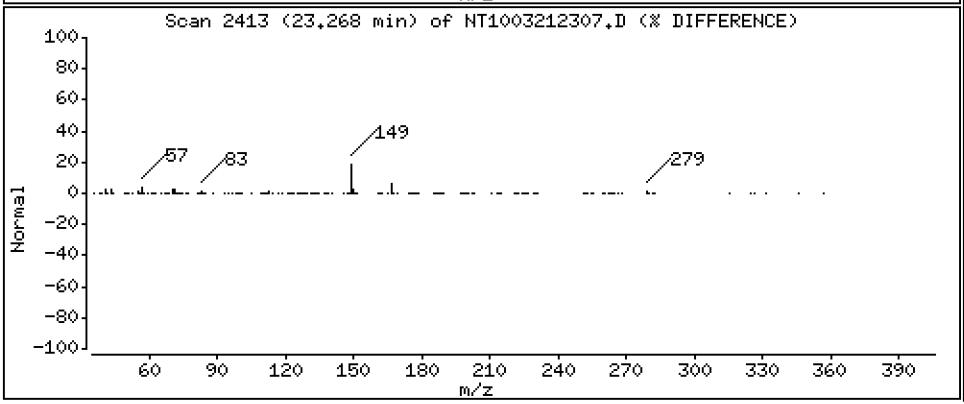
71 Chrysene

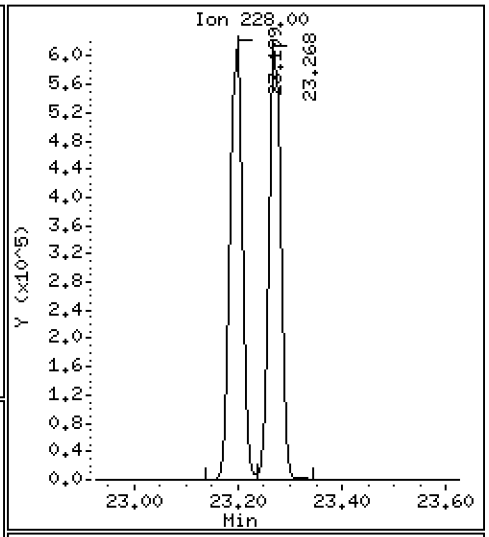
Concentration: 4.150 ug/mL

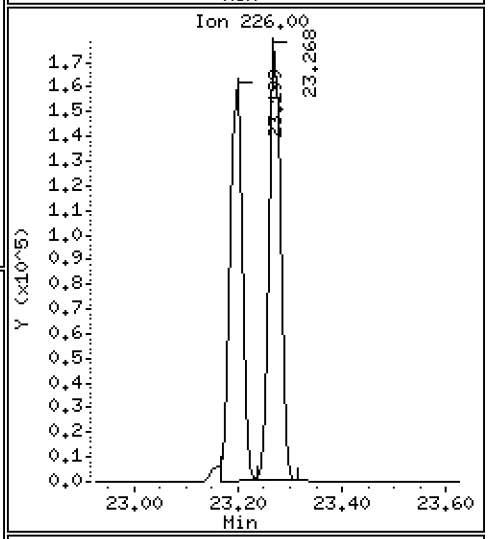


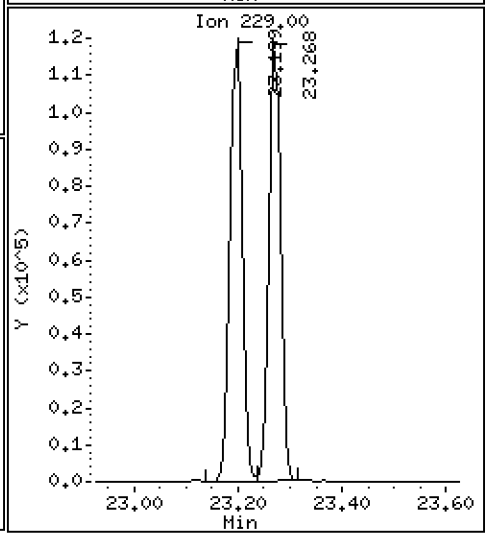












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Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS1

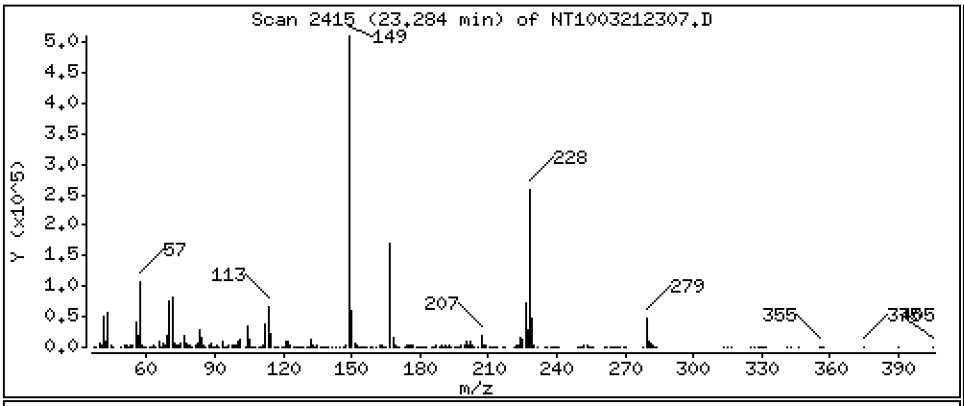
Operator: VTS

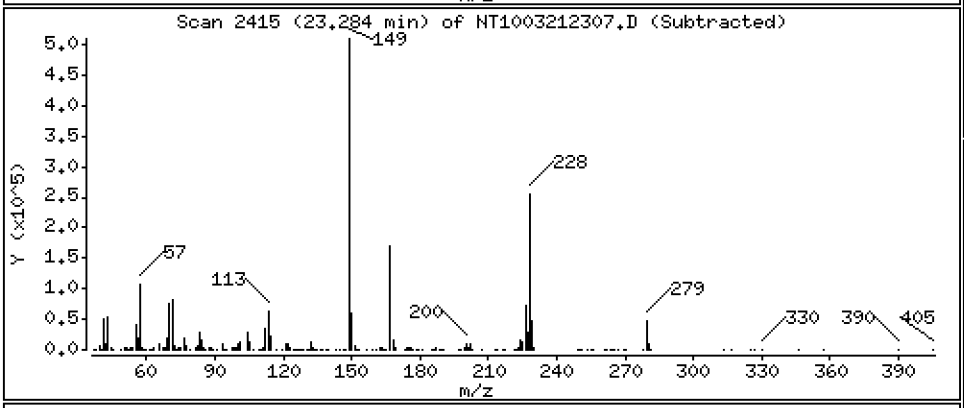
Column phase: ZB-5msi

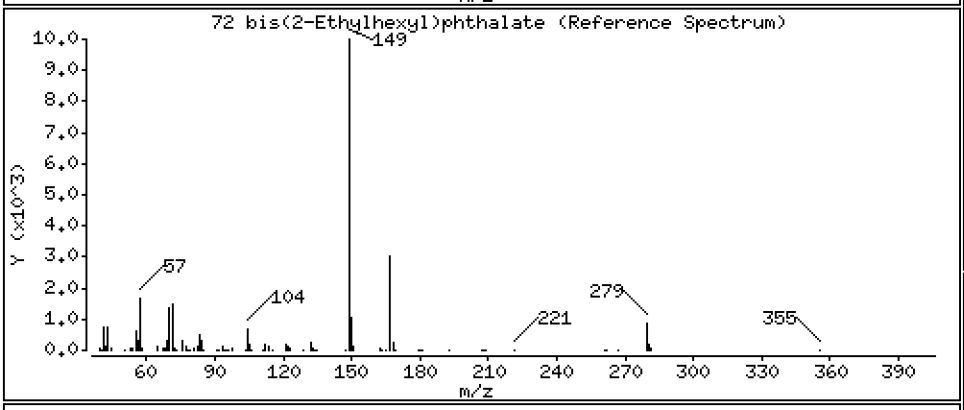
Column diameter: 0.25

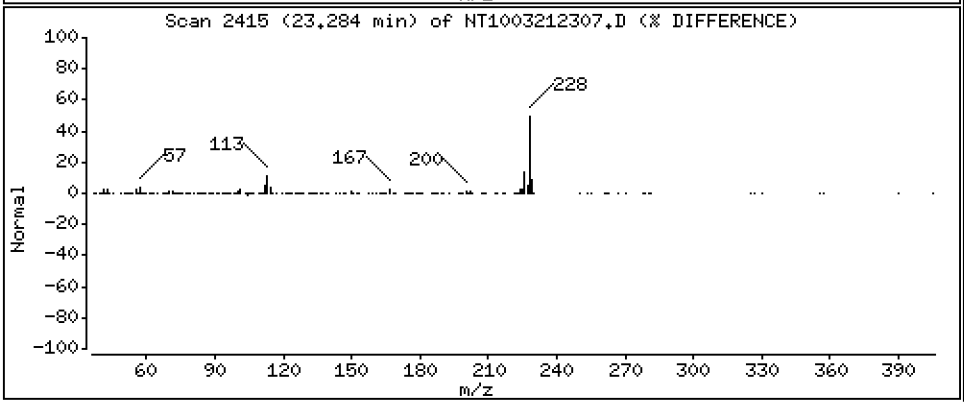
72 bis(2-Ethylhexyl)phthalate

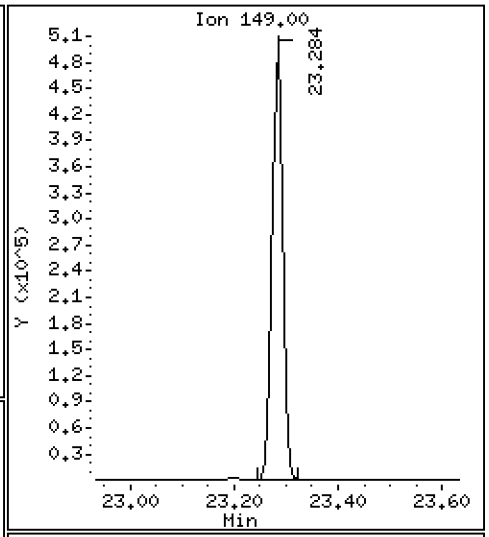
Concentration: 4.341 ug/mL

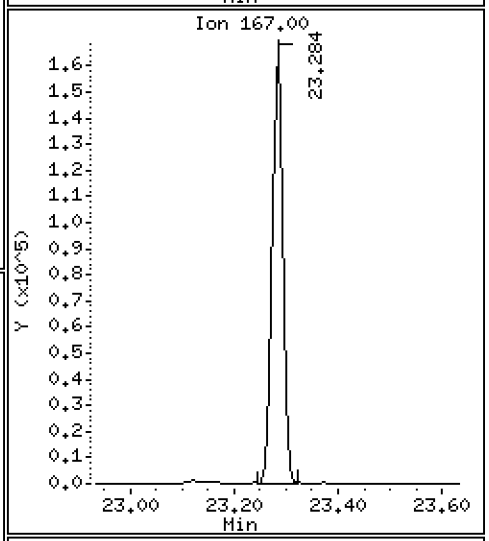


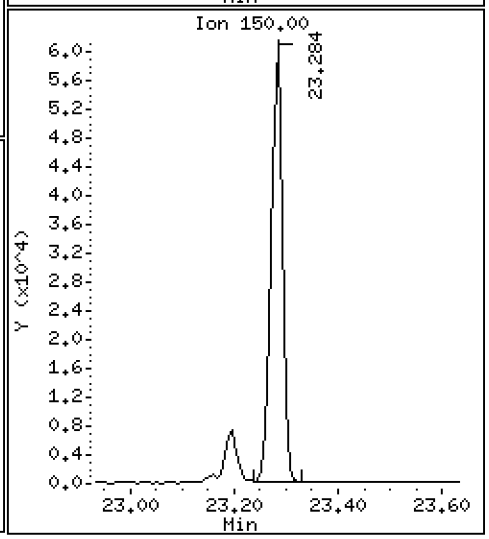












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Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS1

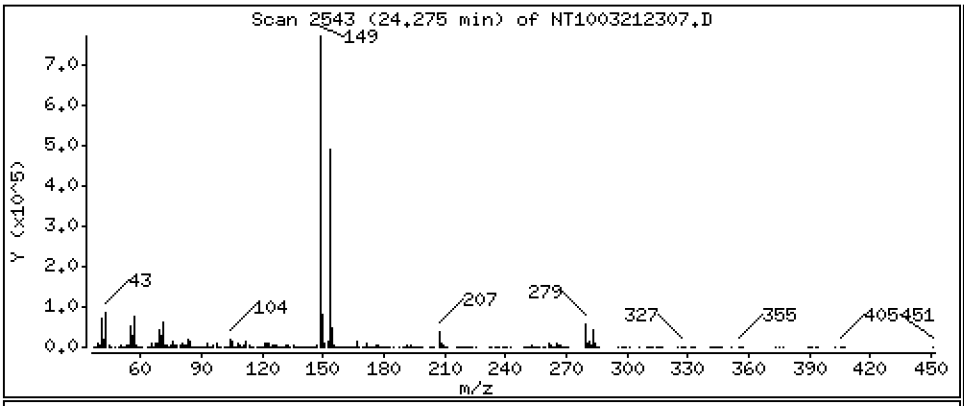
Operator: VTS

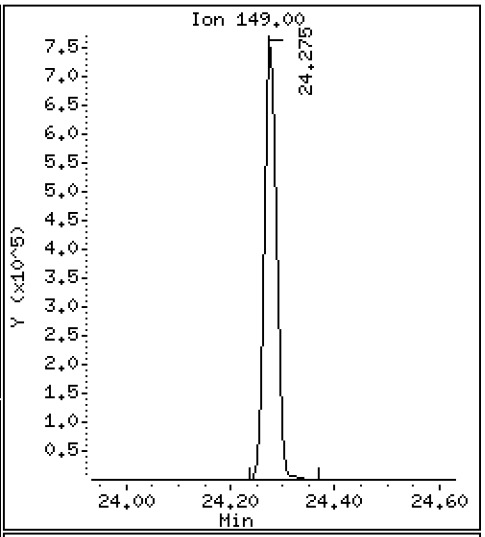
Column phase: ZB-5msi

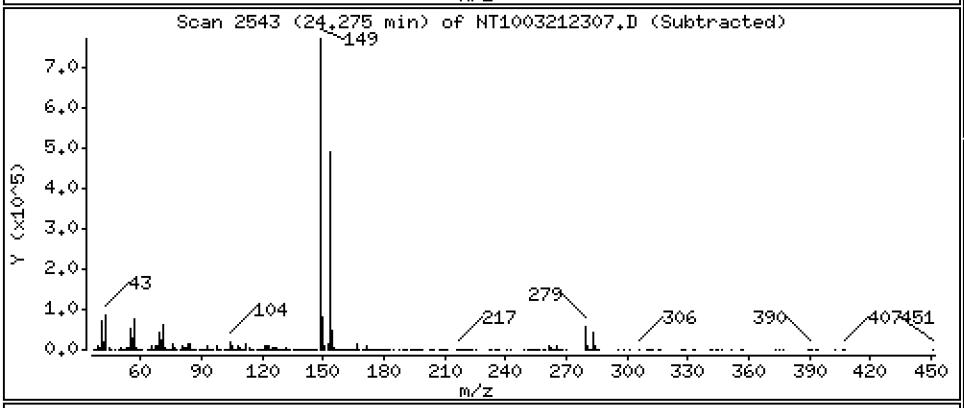
Column diameter: 0.25

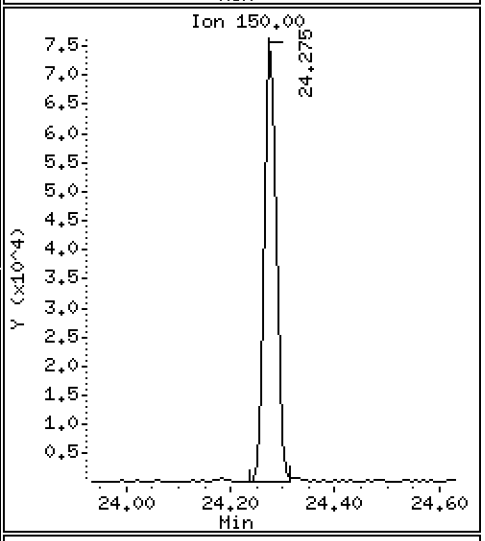
73 Di-n-octylphthalate

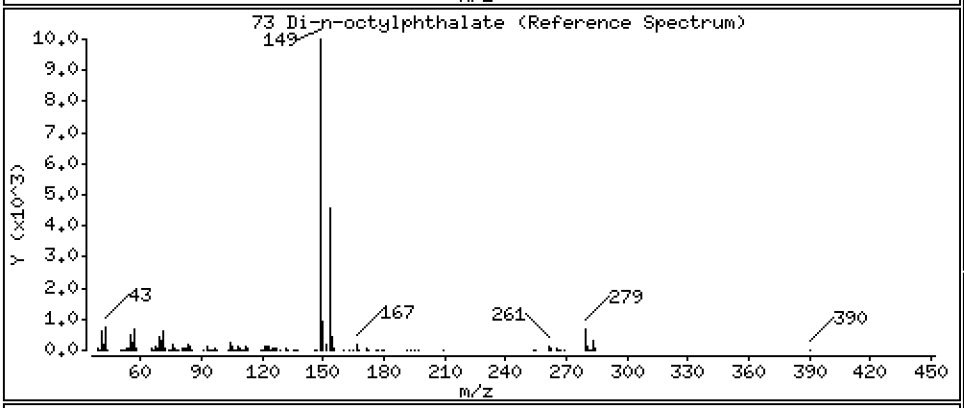
Concentration: 4.397 ug/mL

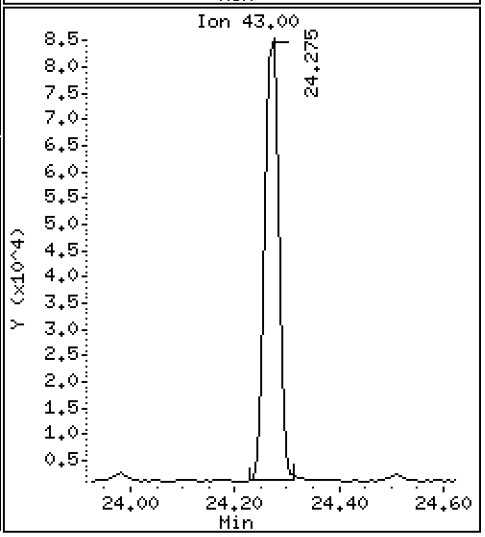


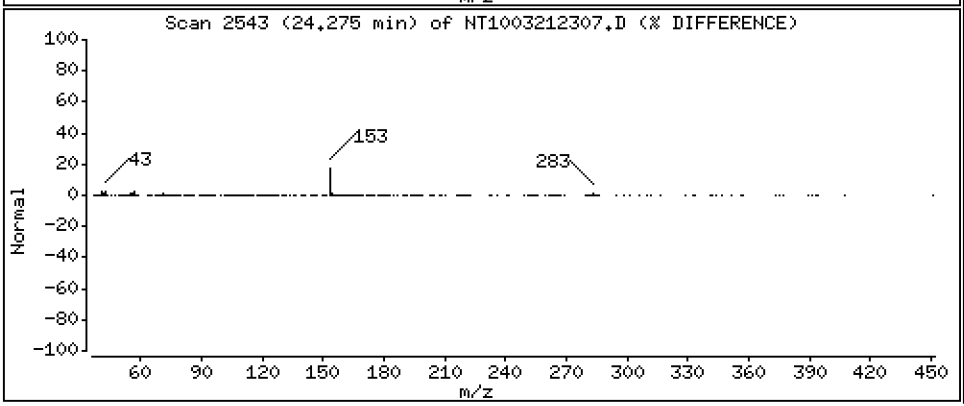












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Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS1

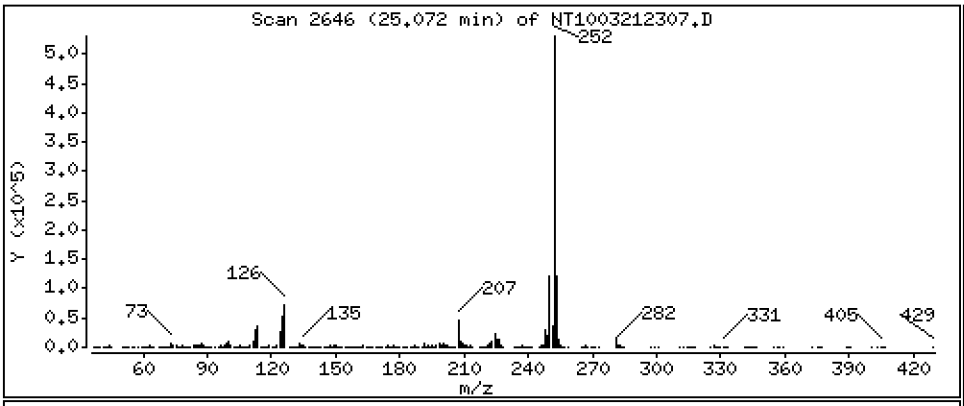
Operator: VTS

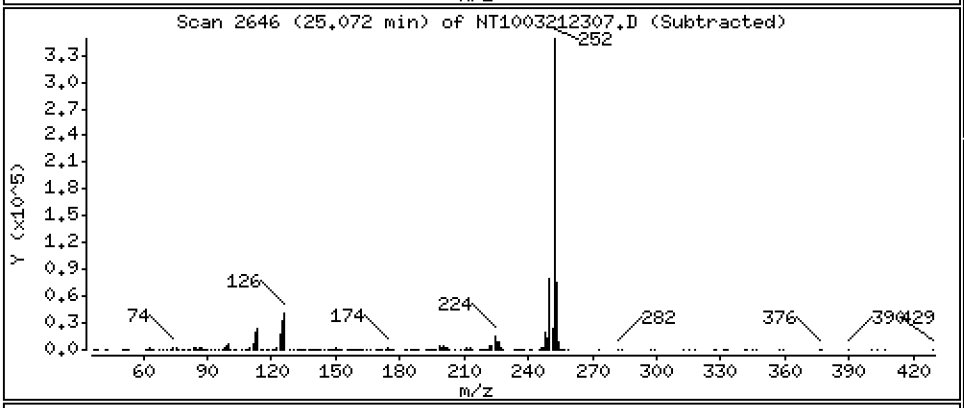
Column phase: ZB-5msi

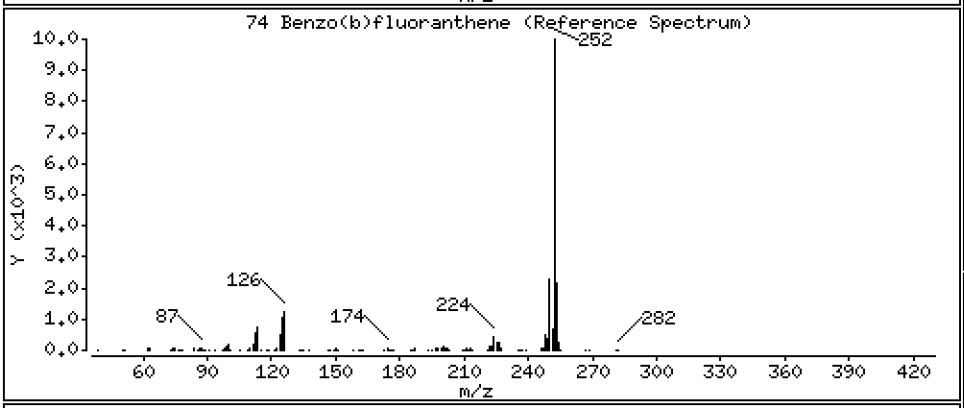
Column diameter: 0.25

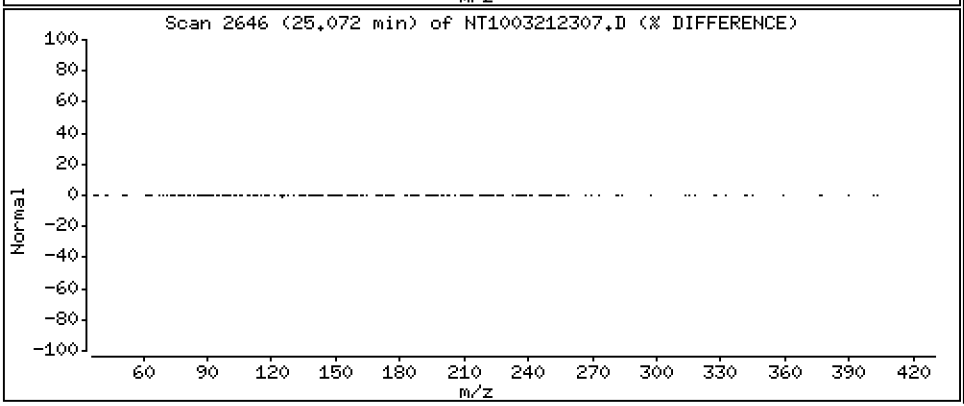
74 Benzo(b)fluoranthene

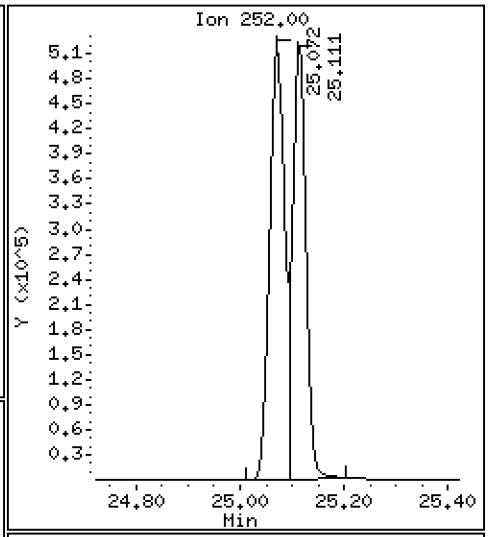
Concentration: 4.785 ug/mL

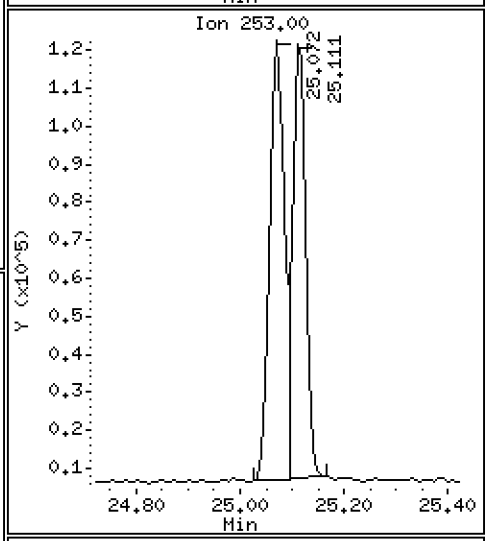


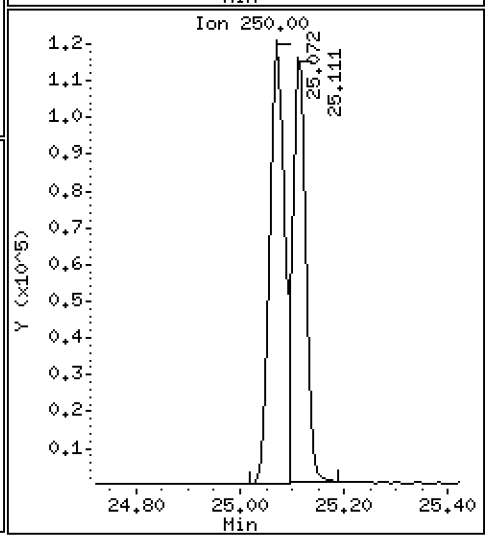












Date : 21-MAR-2023 21:00

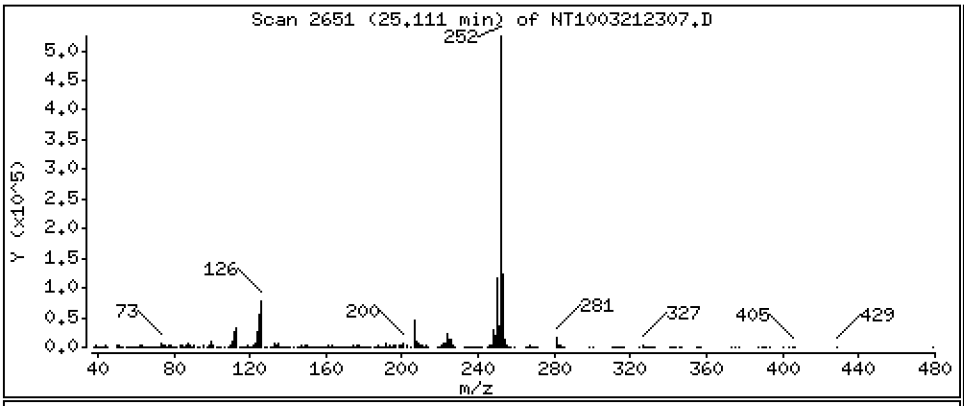
Client ID: Instrument: nt10.i

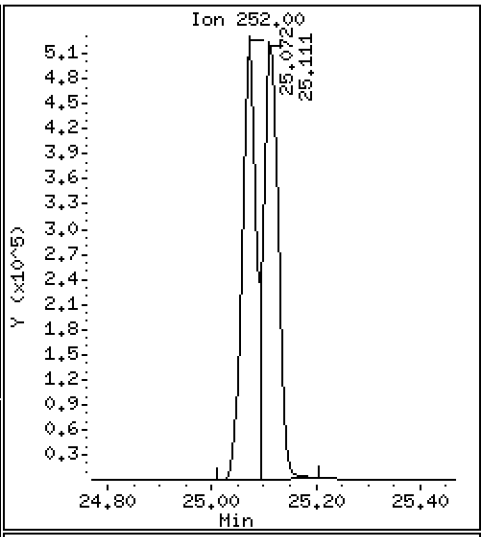
Sample Info: BLC0109-BS1

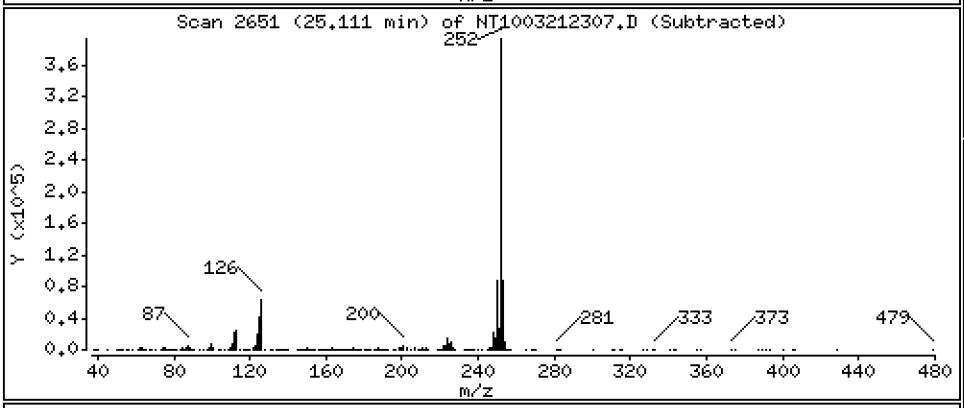
Operator: VTS

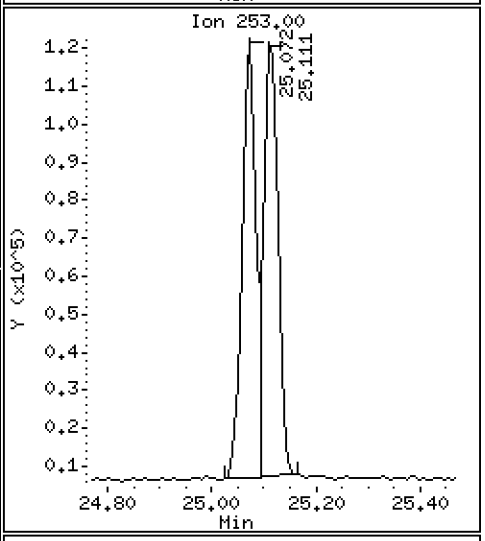
Column phase: ZB-5msi Column diameter: 0.25

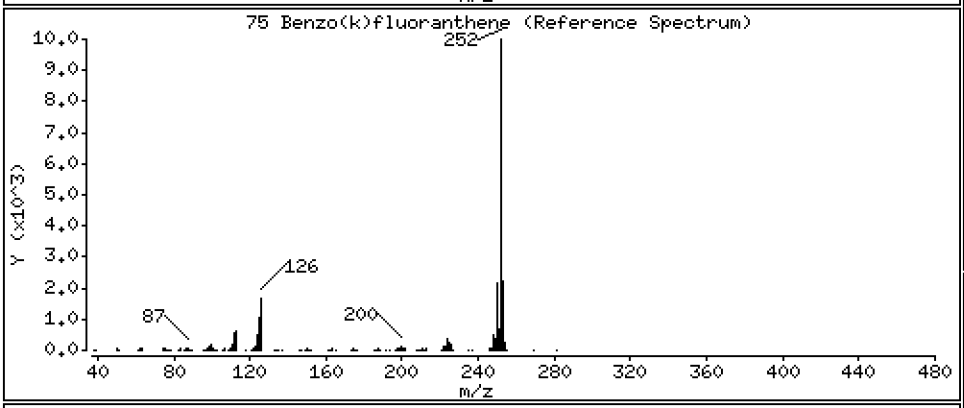
75 Benzo(k)fluoranthene Concentration: 4.430 ug/mL

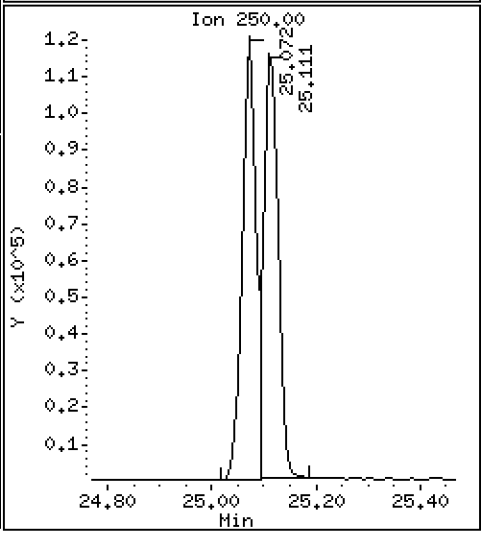


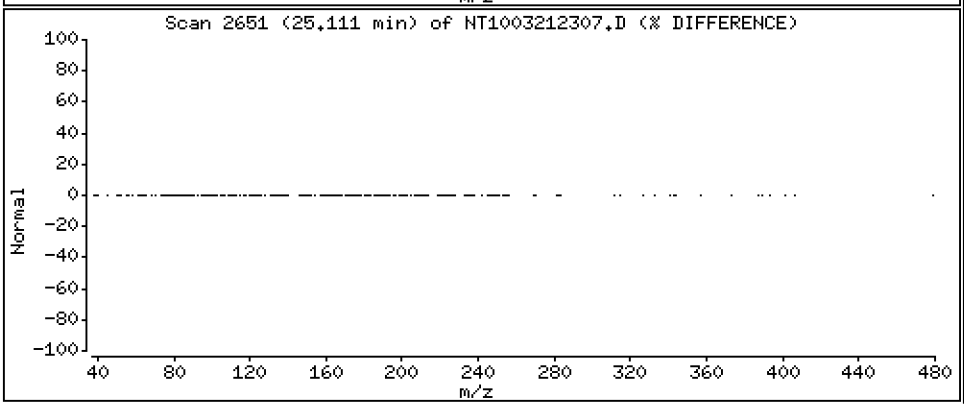












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212307.D

Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS1

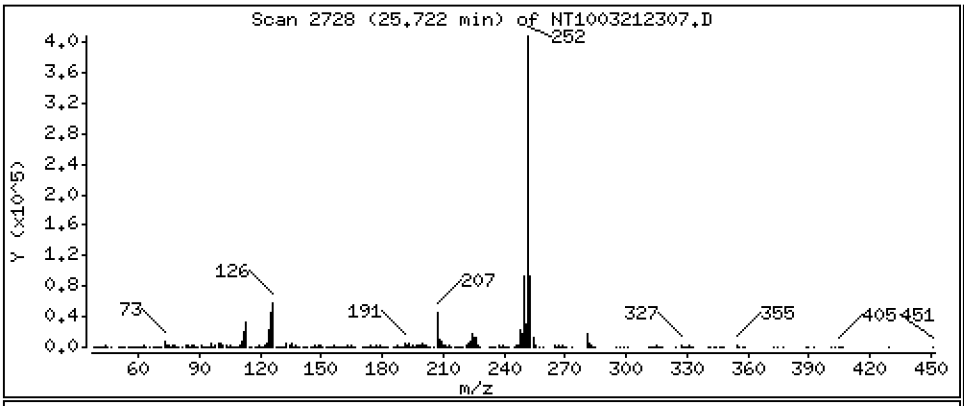
Operator: VTS

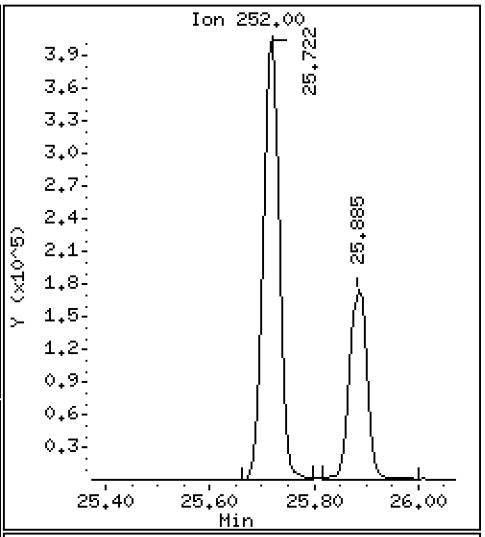
Column phase: ZB-5msi

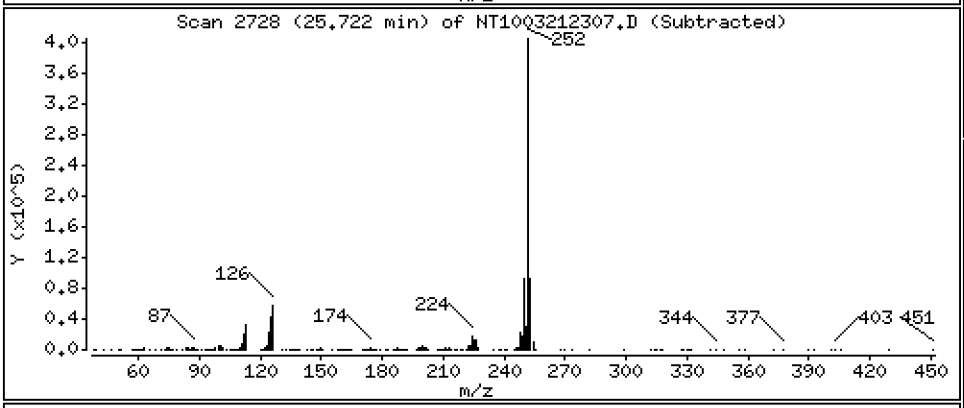
Column diameter: 0.25

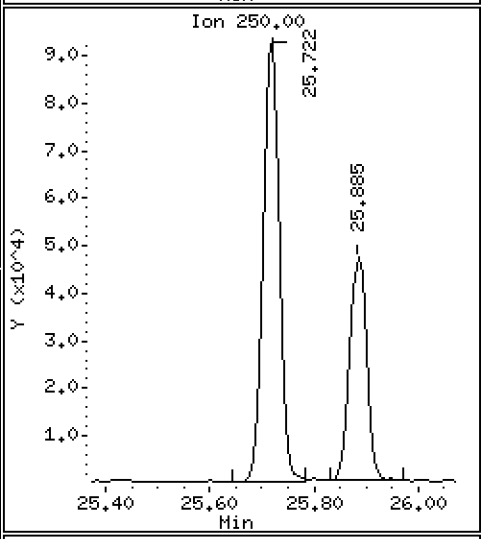
76 Benzo(a)pyrene

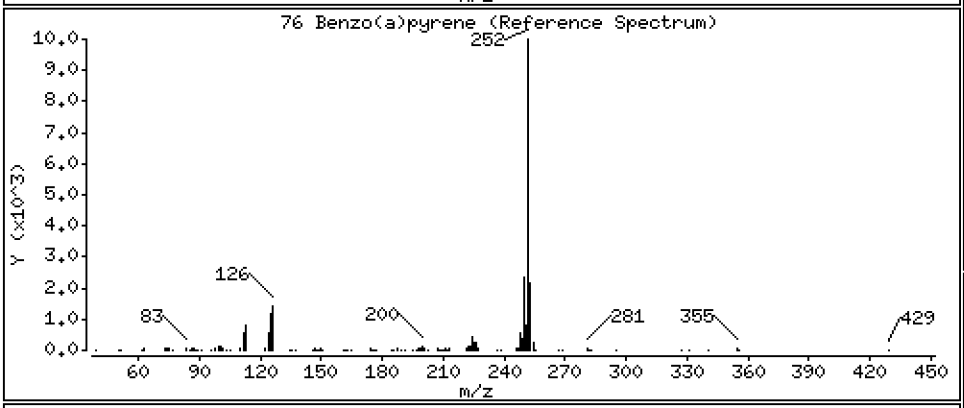
Concentration: 4.258 ug/mL

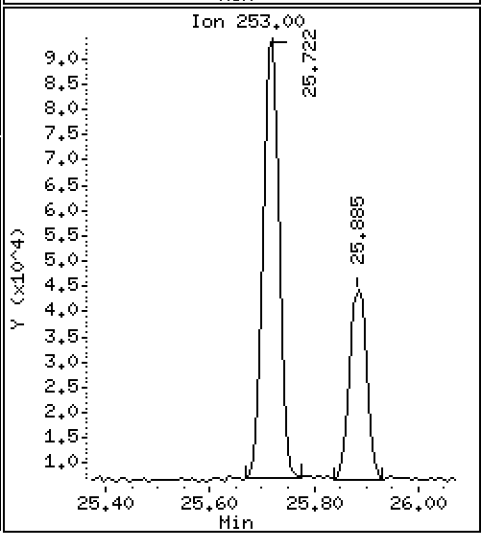


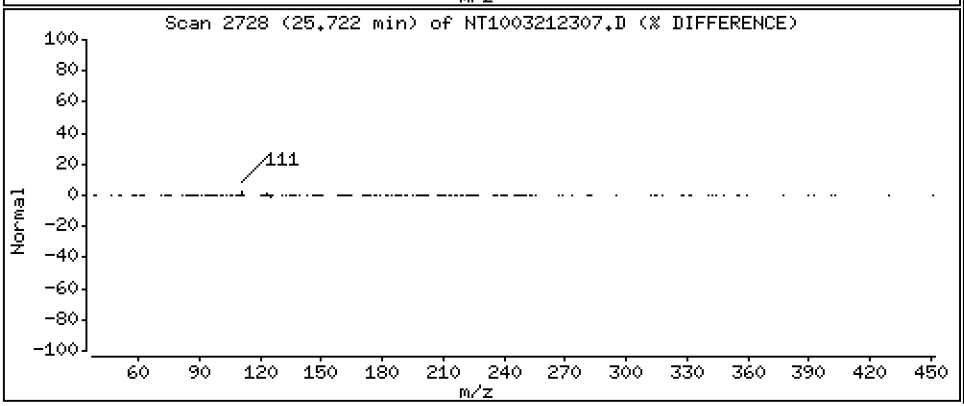












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212307.D

Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS1

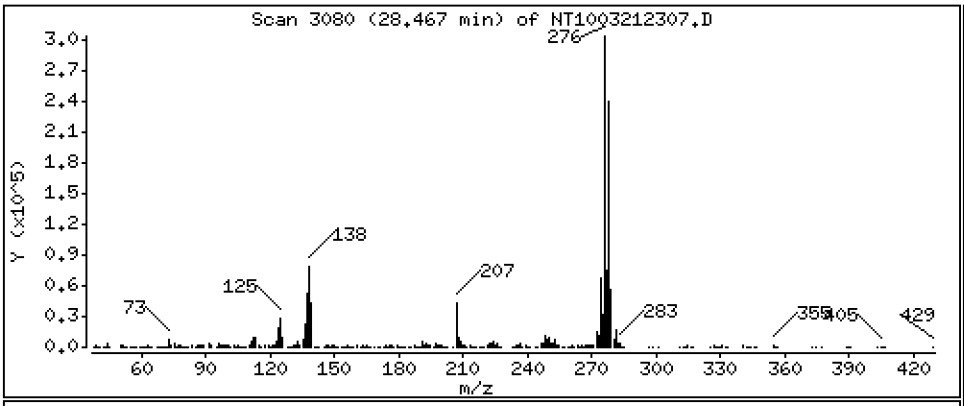
Operator: VTS

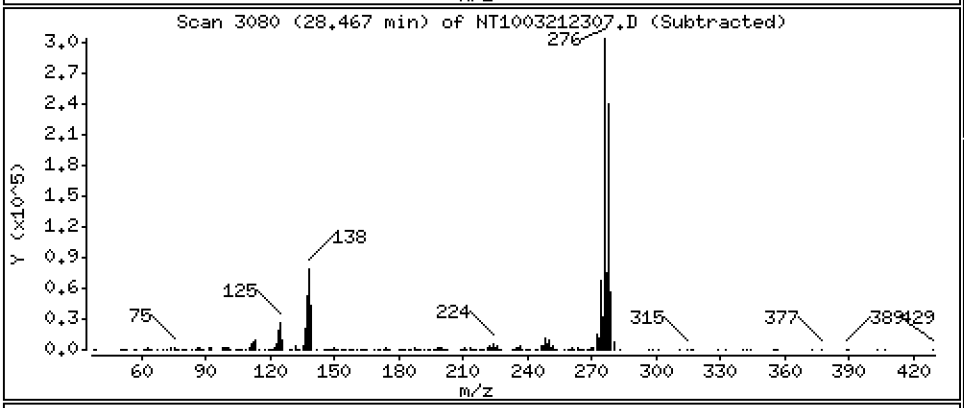
Column phase: ZB-5msi

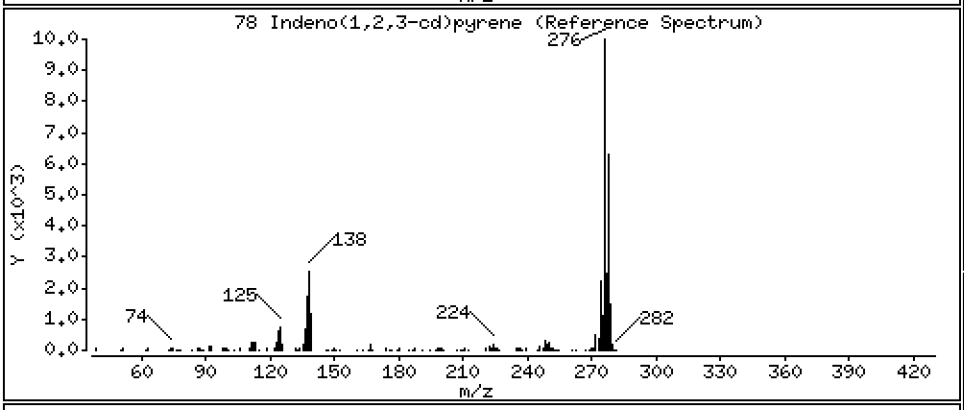
Column diameter: 0.25

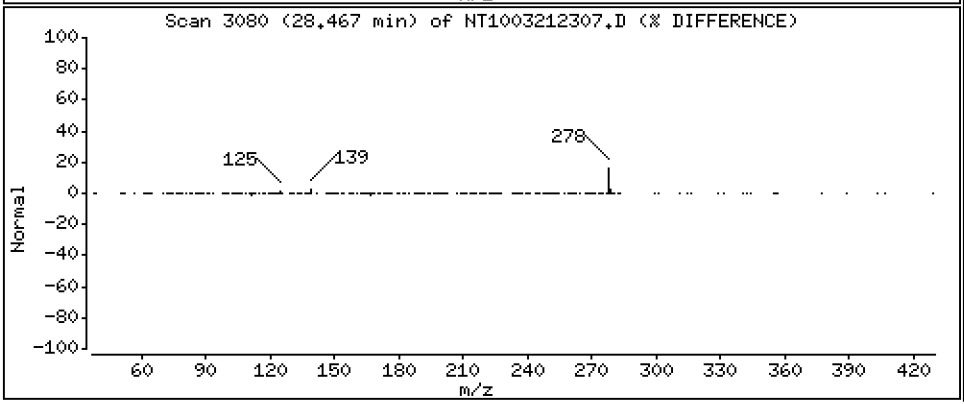
78 Indeno(1,2,3-cd)pyrene

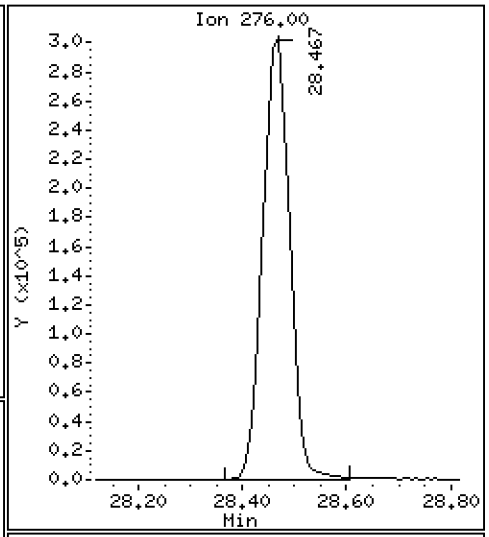
Concentration: 4.339 ug/mL

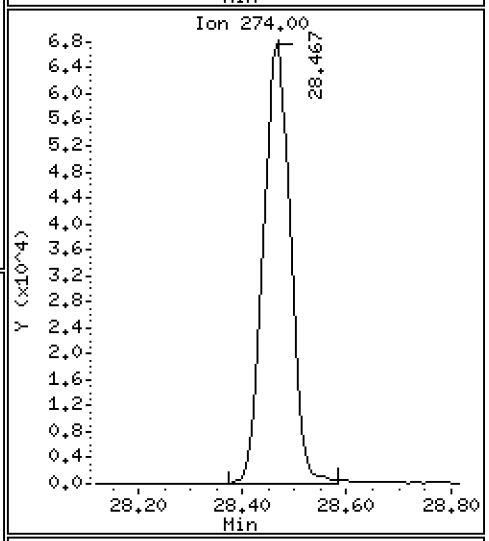


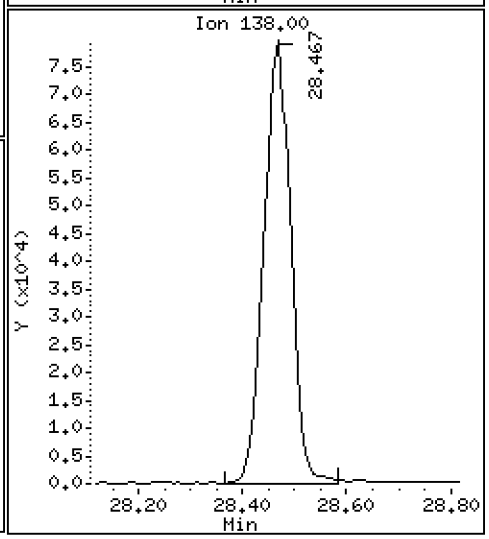












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Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS1

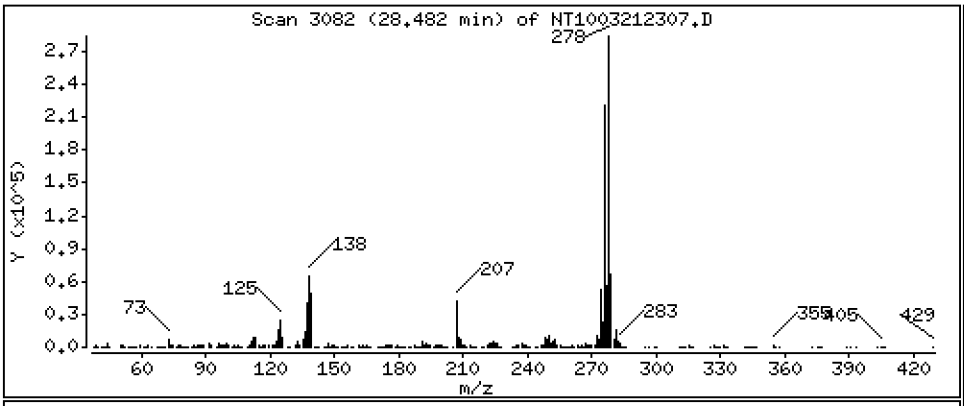
Operator: VTS

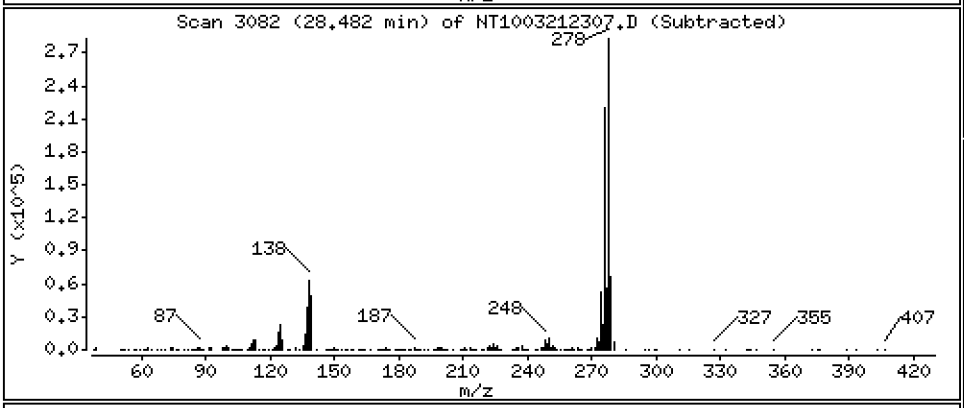
Column phase: ZB-5msi

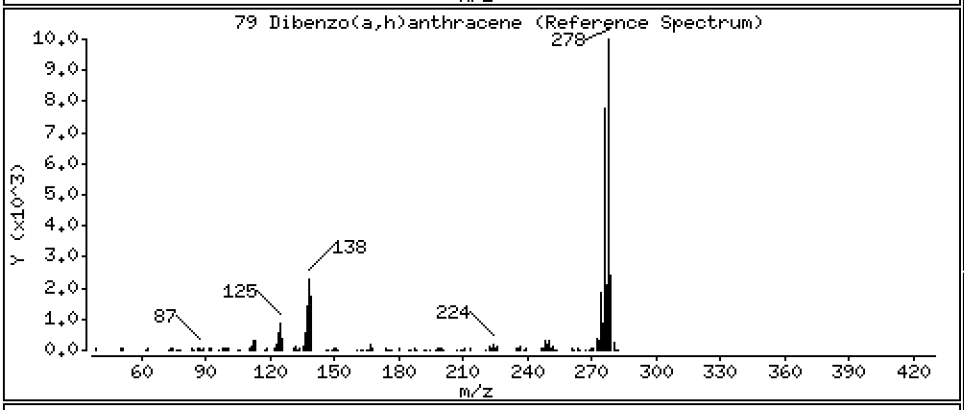
Column diameter: 0.25

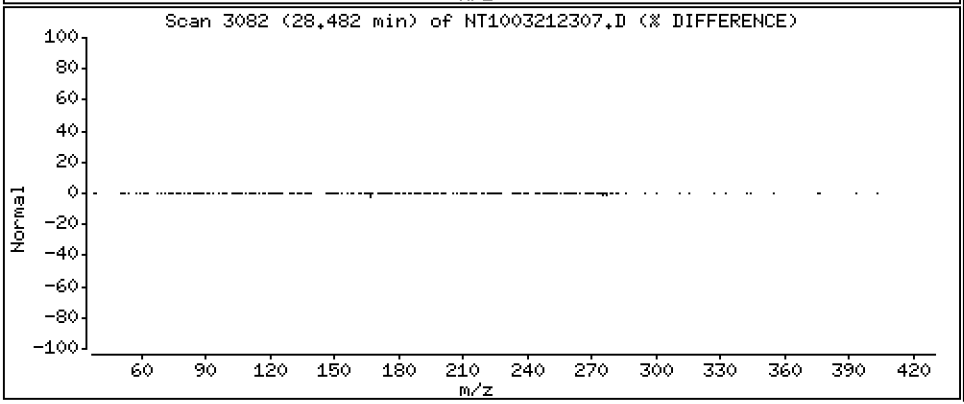
79 Dibenzo(a,h)anthracene

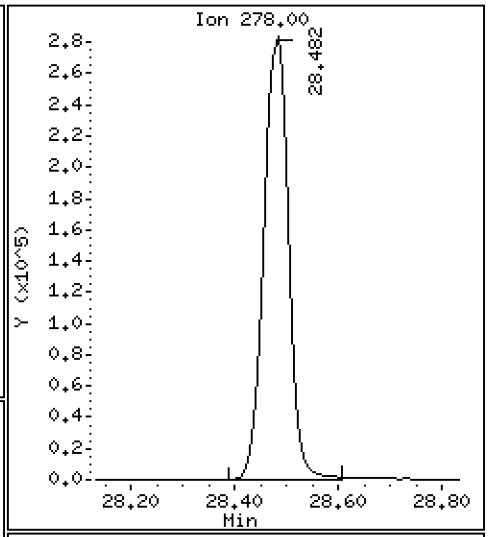
Concentration: 4.447 ug/mL

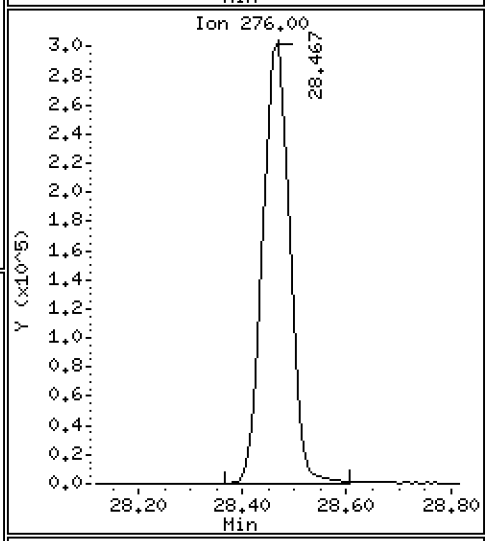


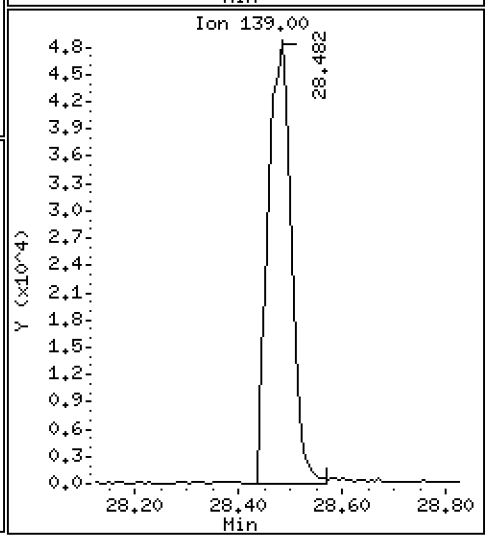












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Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS1

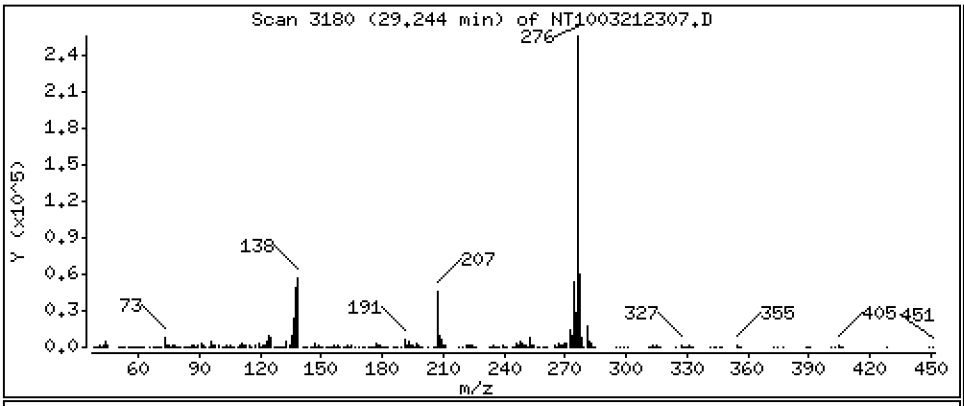
Operator: VTS

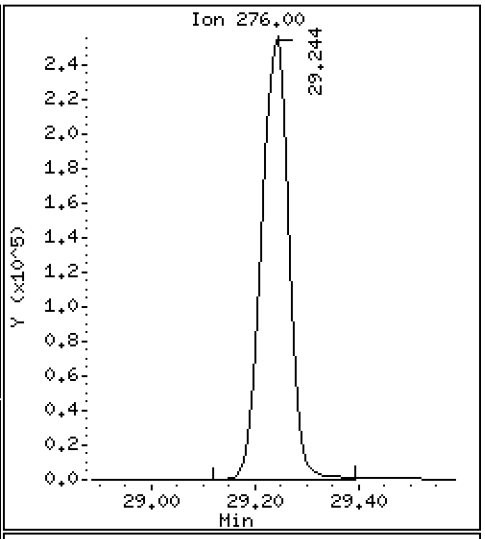
Column phase: ZB-5msi

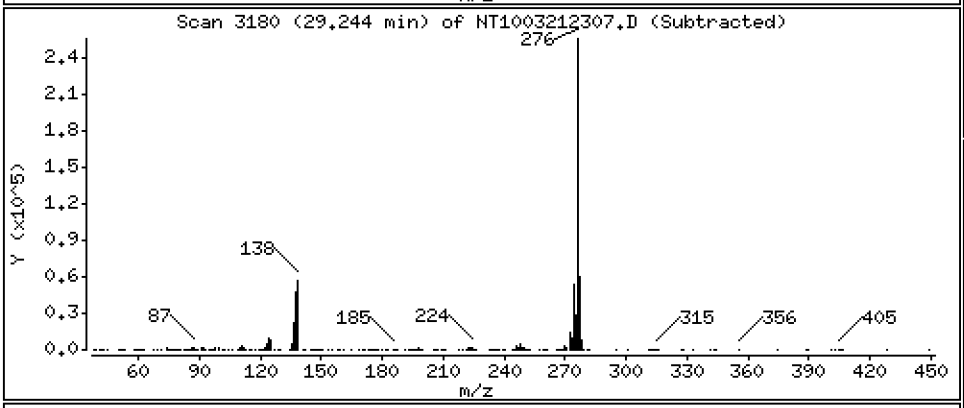
Column diameter: 0.25

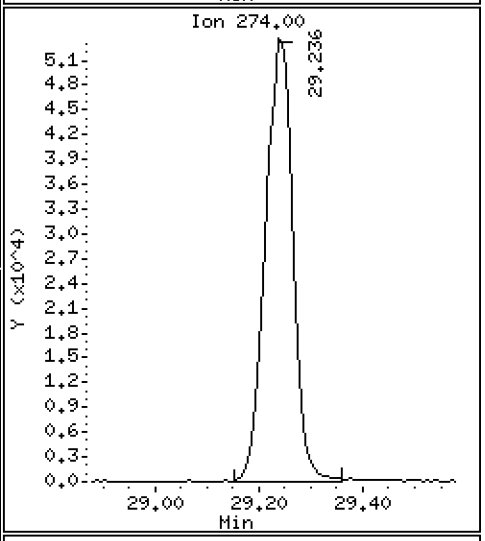
80 Benzo(g,h,i)perylene

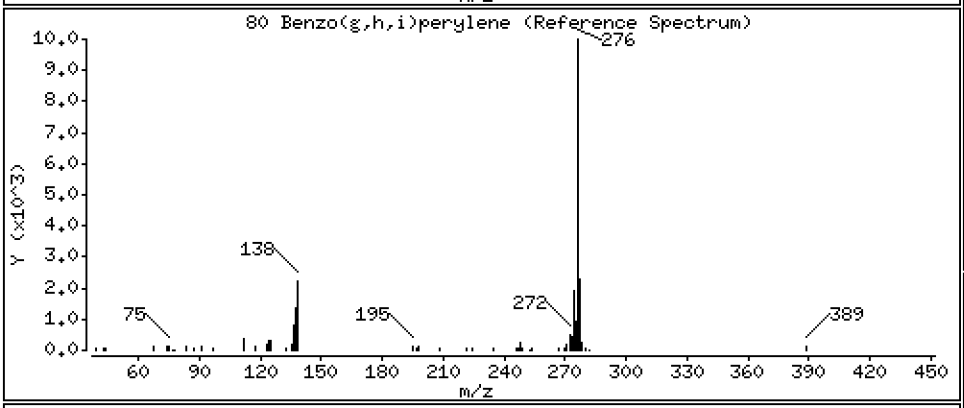
Concentration: 4.300 ug/mL

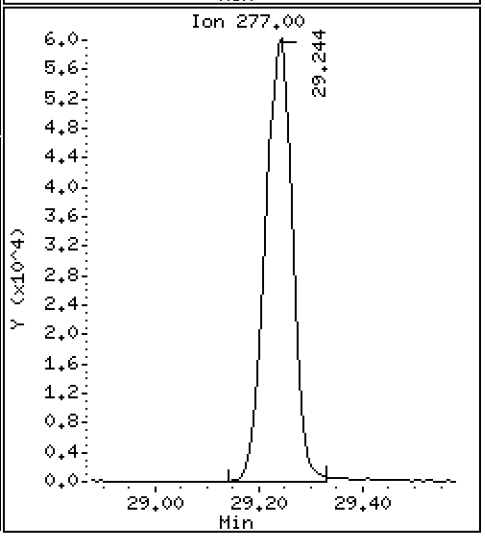


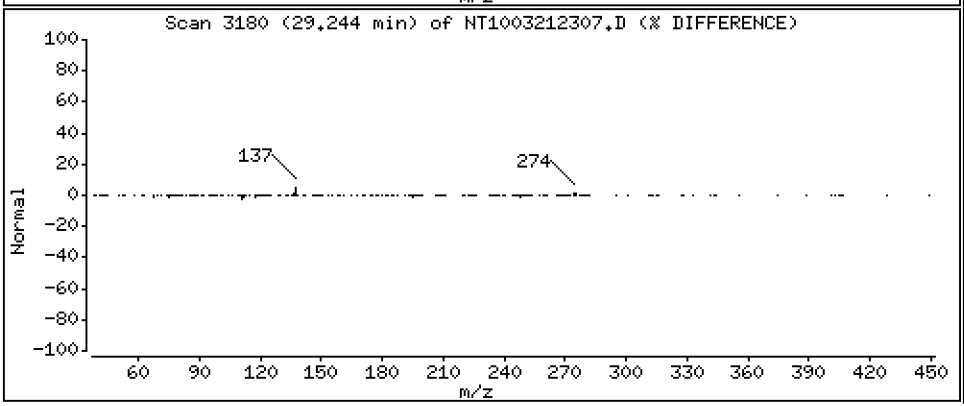












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Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS1

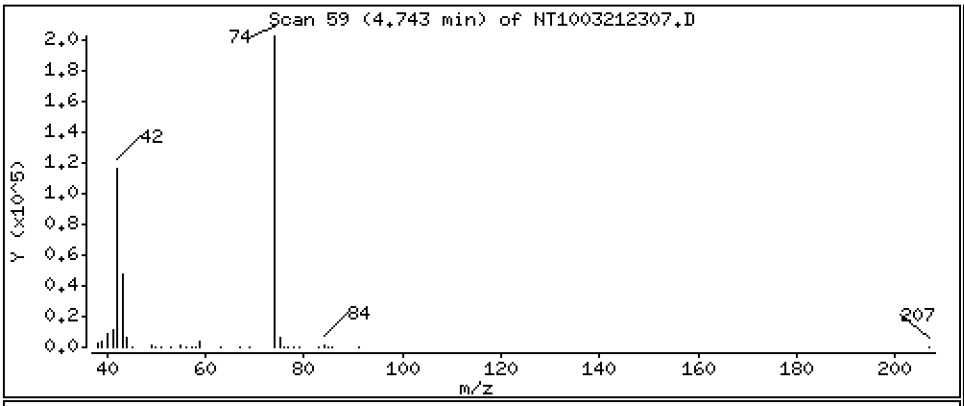
Operator: VTS

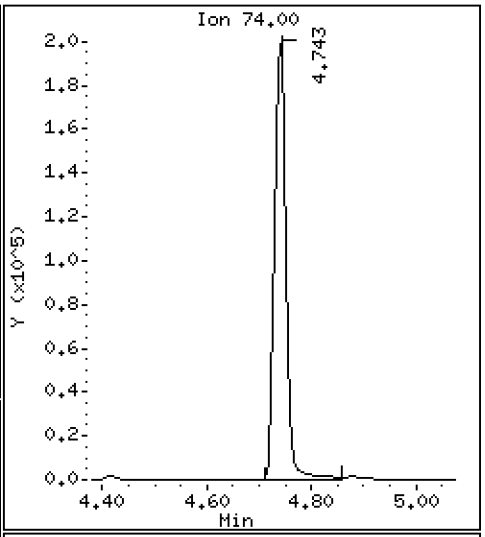
Column phase: ZB-5msi

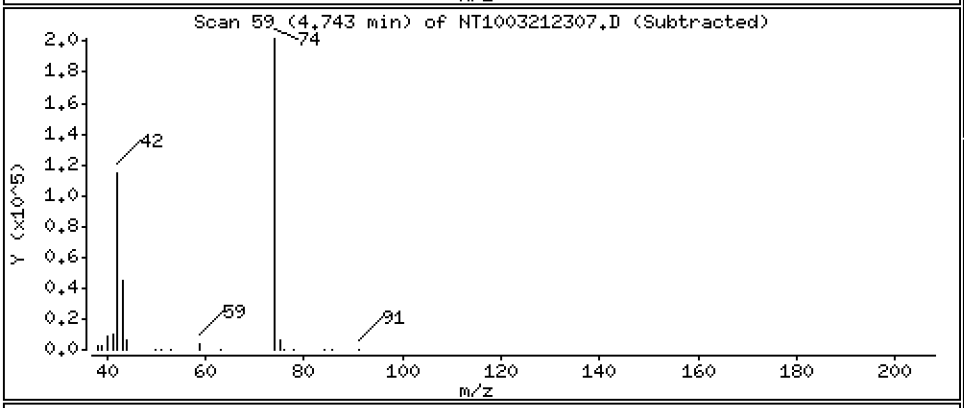
Column diameter: 0.25

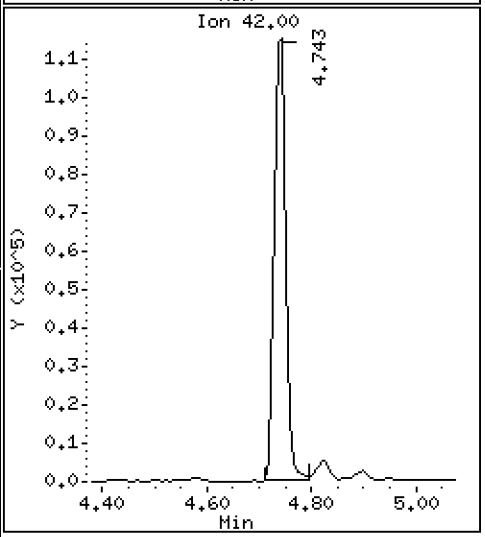
90 N-Nitrosodimethylamine

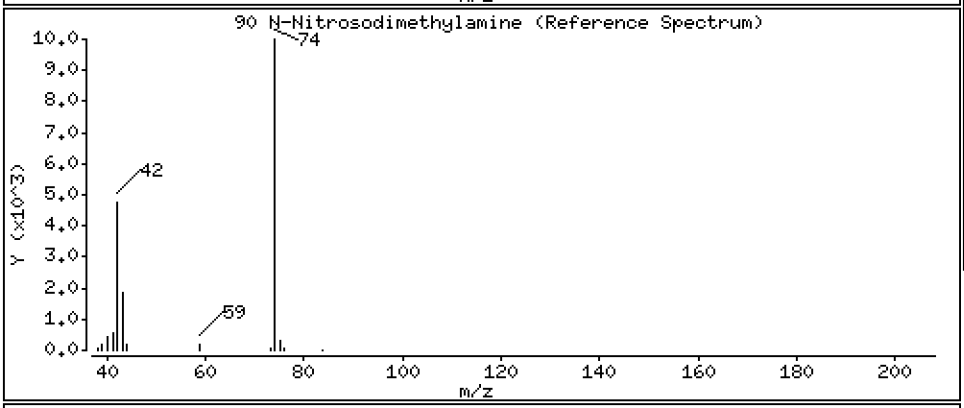
Concentration: 7.557 ug/mL

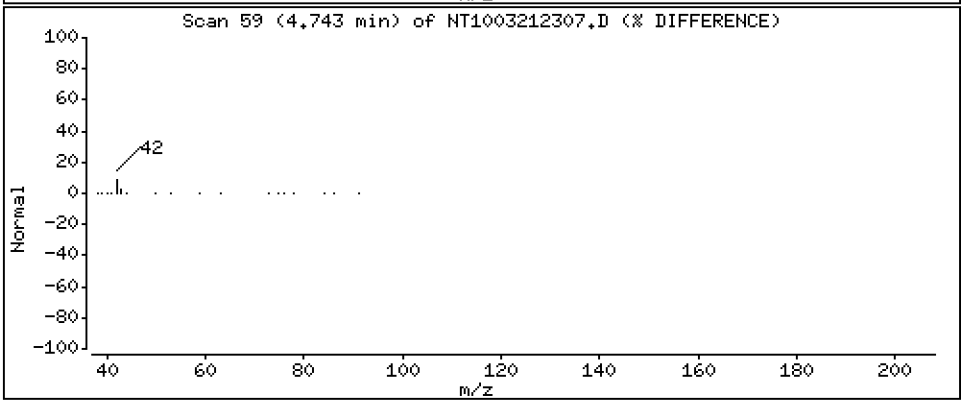












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212307.D

Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS1

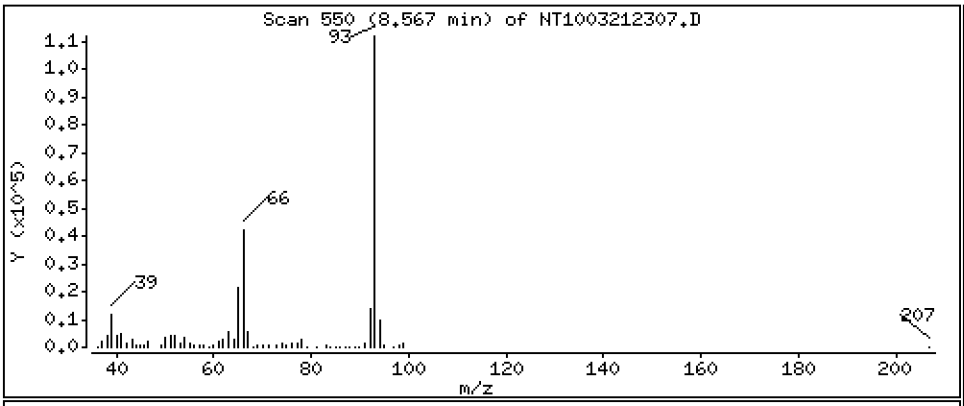
Operator: VTS

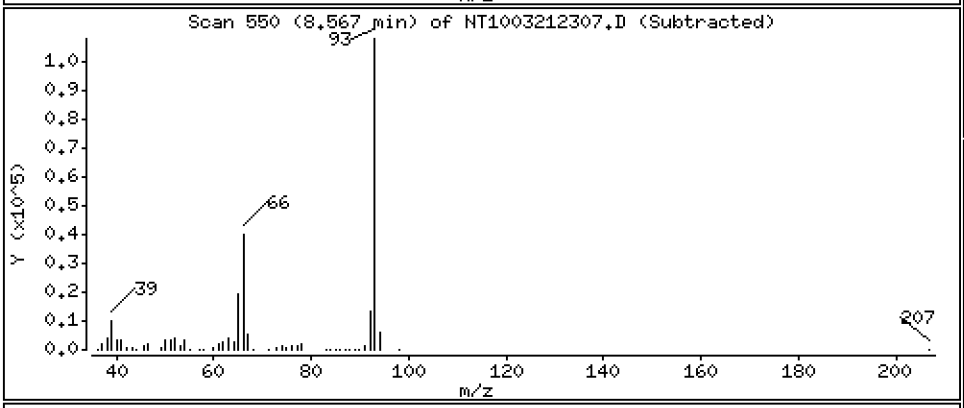
Column phase: ZB-5msi

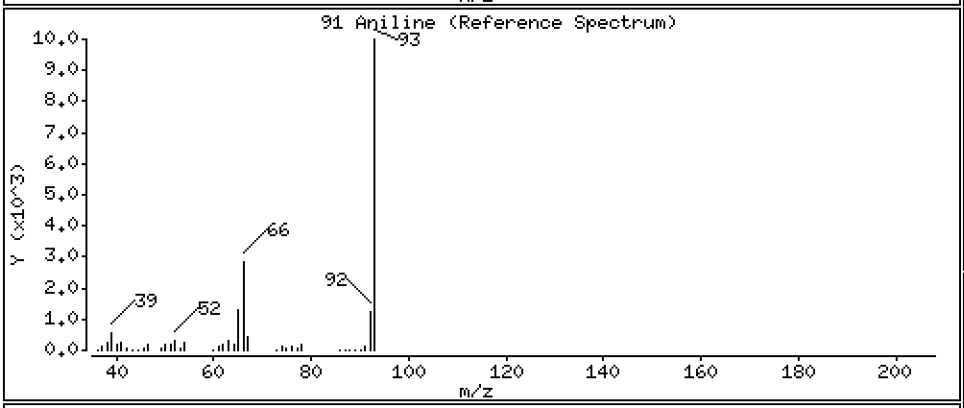
Column diameter: 0.25

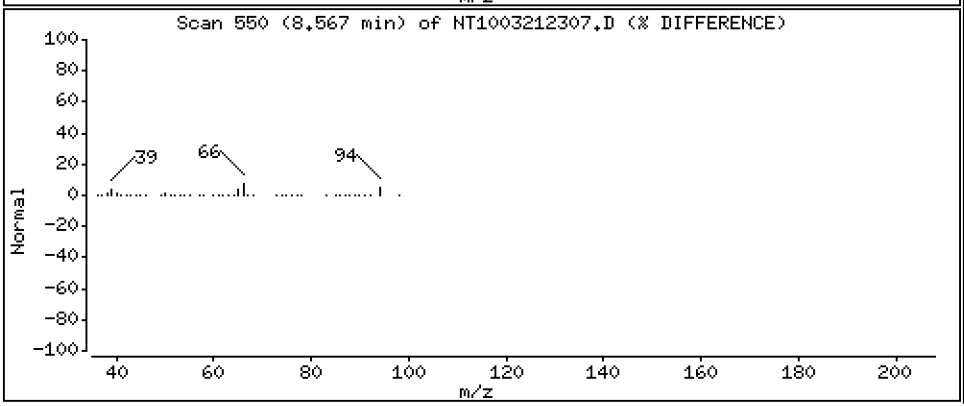
91 Aniline

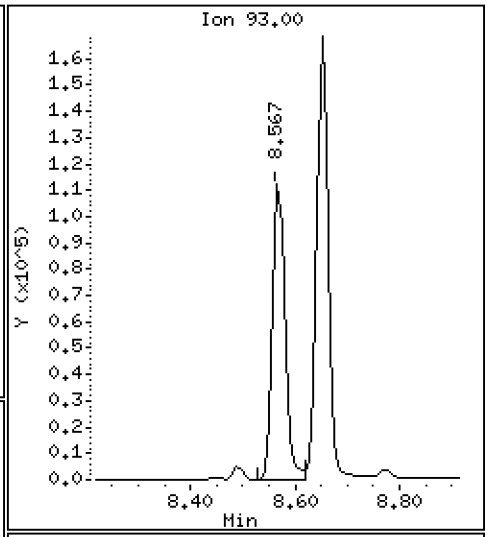
Concentration: 2.106 ug/mL

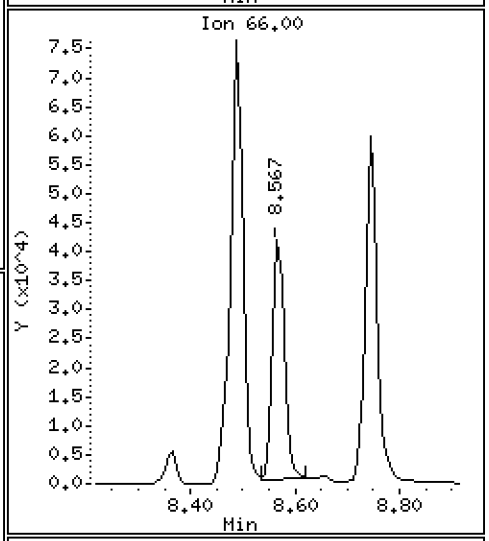


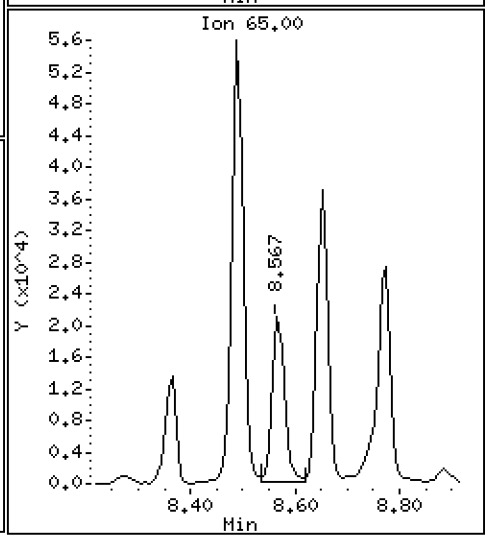












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Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS1

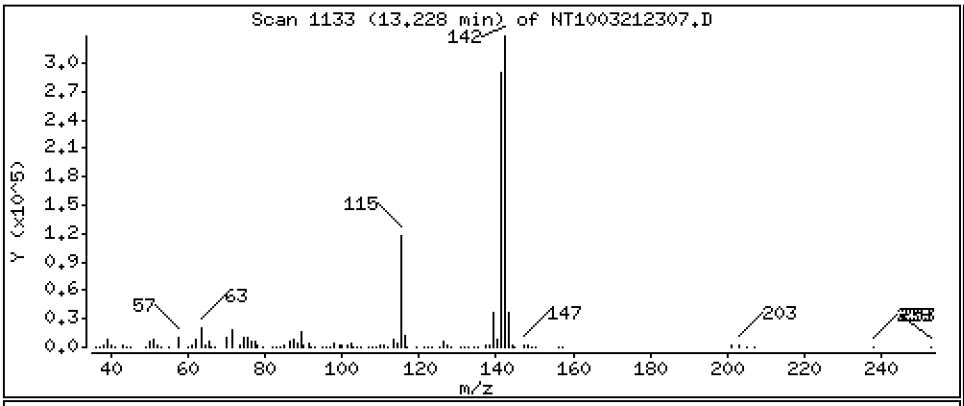
Operator: VTS

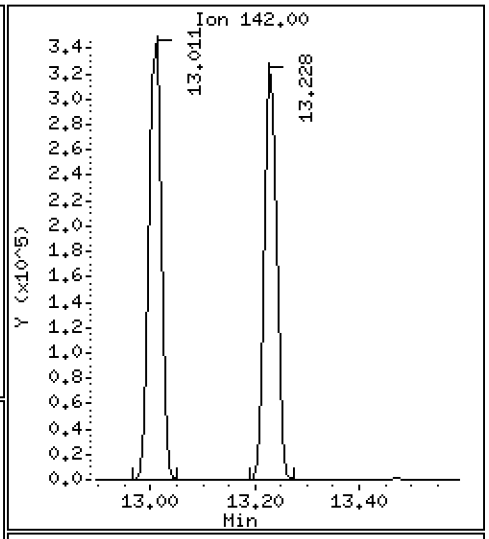
Column phase: ZB-5msi

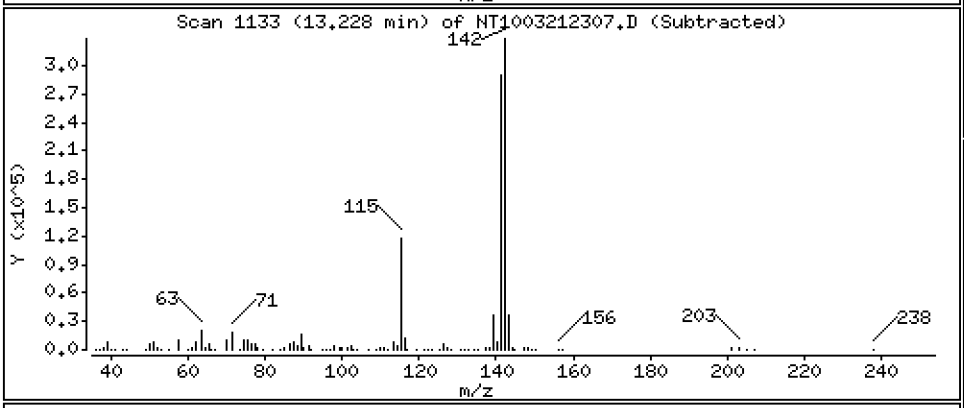
Column diameter: 0.25

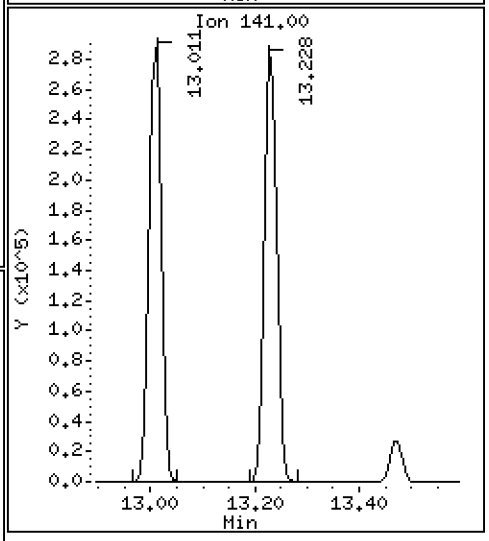
105 1-methylnaphthalene

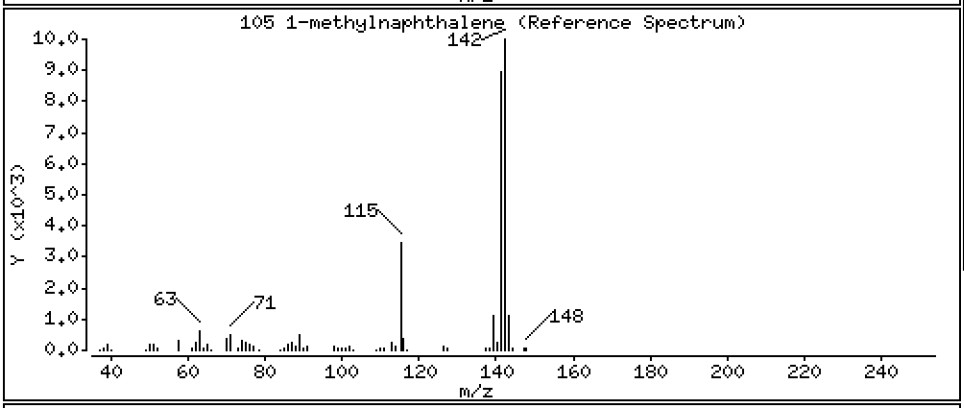
Concentration: 4.011 ug/mL

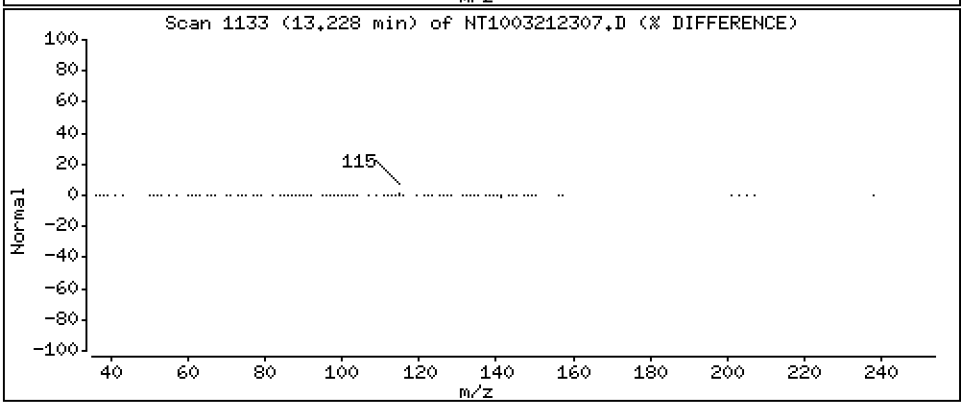












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Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS1

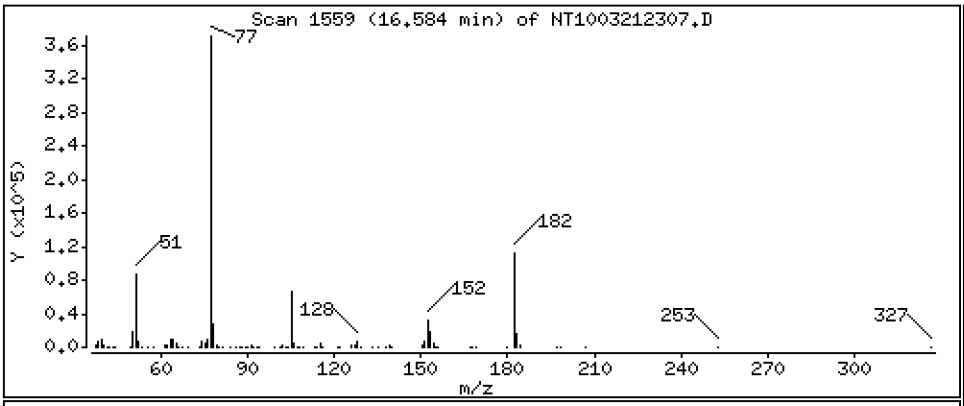
Operator: VTS

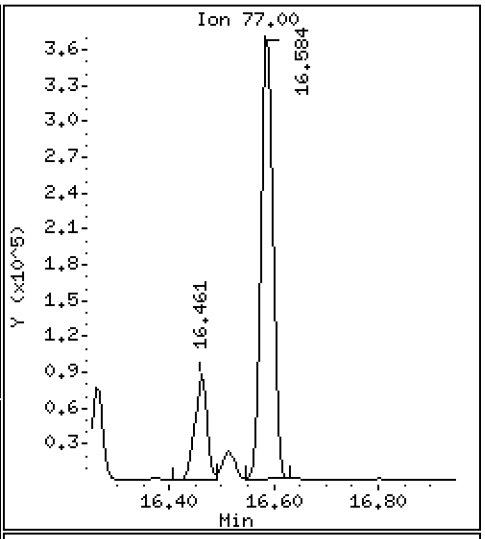
Column phase: ZB-5msi

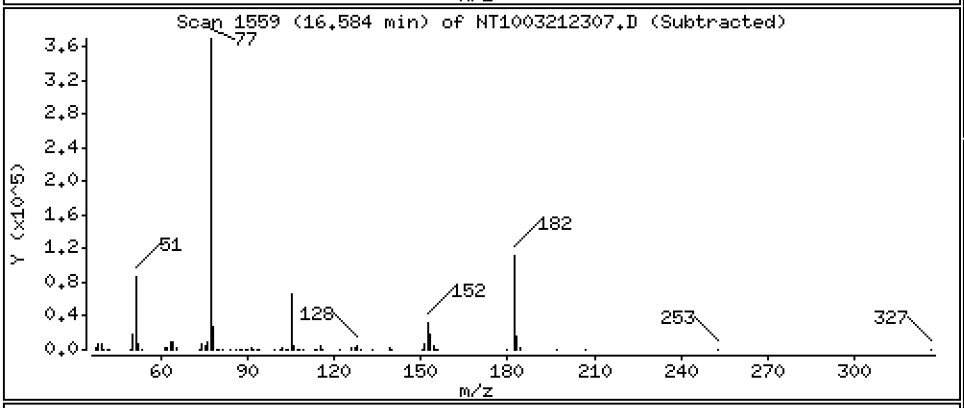
Column diameter: 0.25

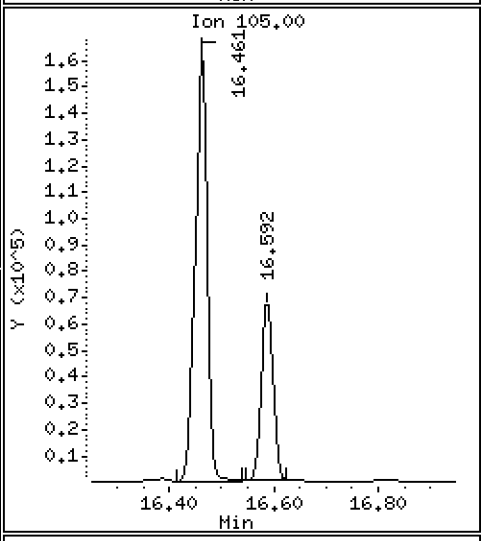
111 Azobenzene (1,2-DP-Hydrazine)

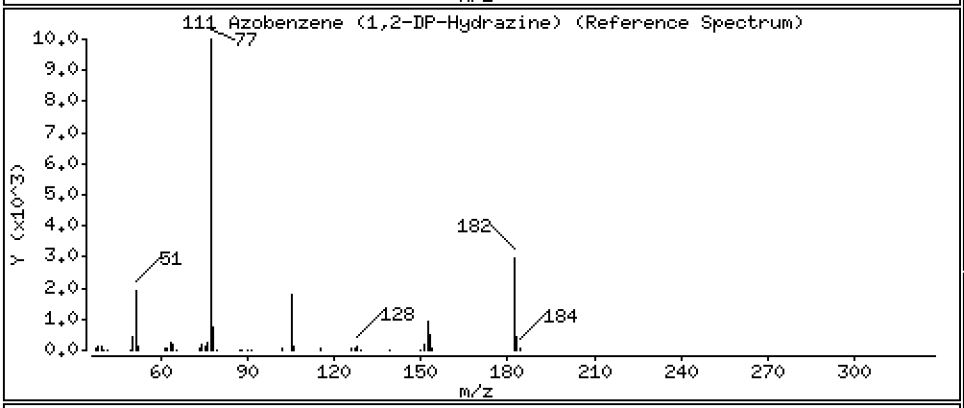
Concentration: 3.786 ug/mL

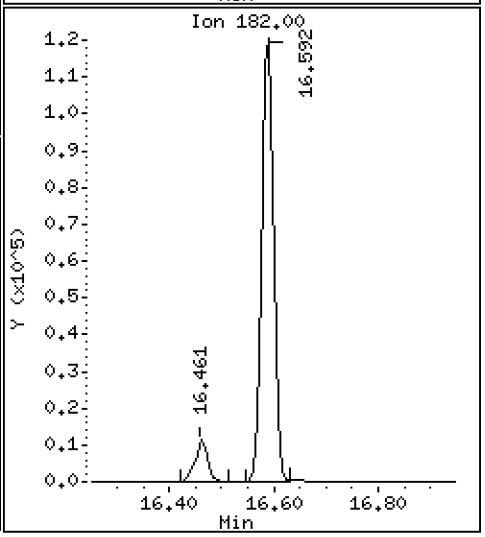


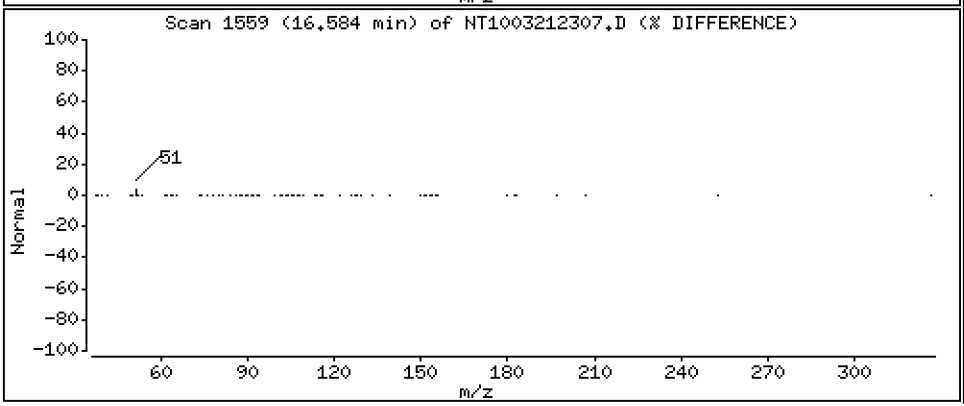












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Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS1

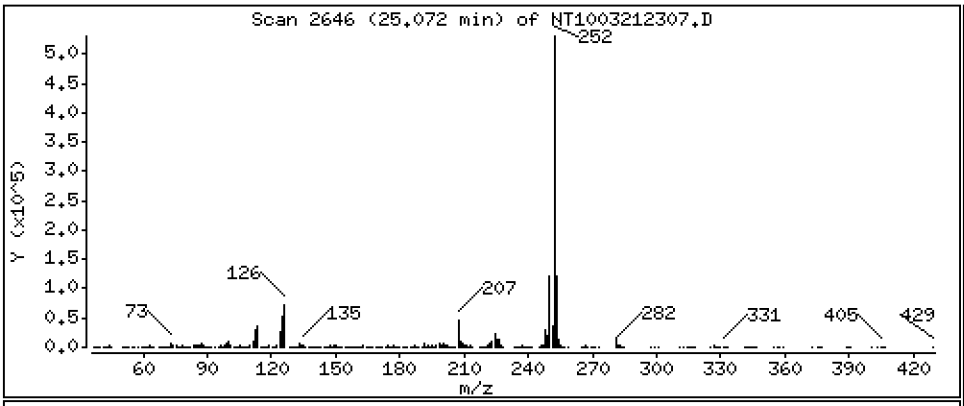
Operator: VTS

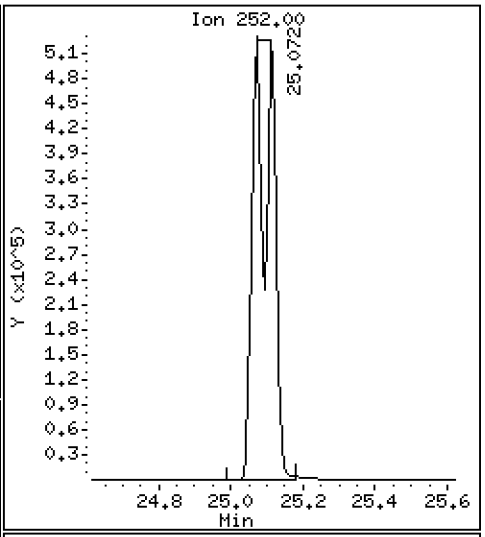
Column phase: ZB-5msi

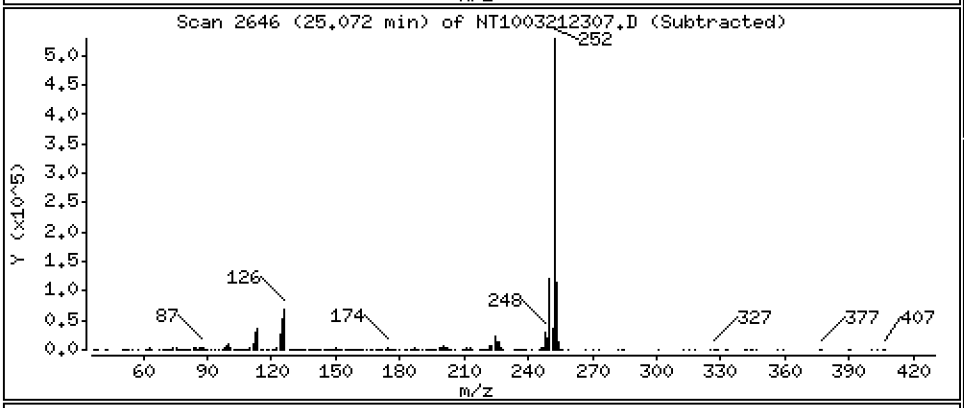
Column diameter: 0.25

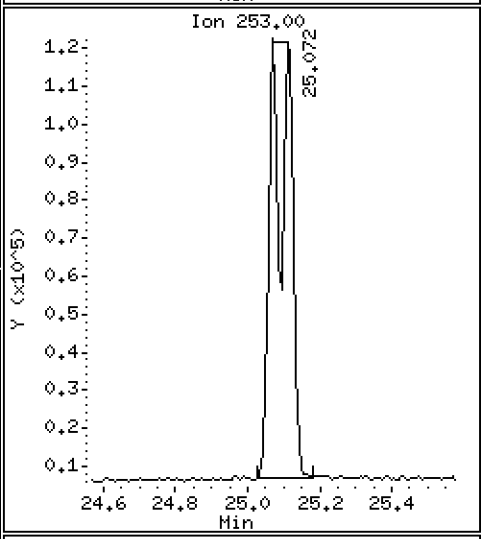
187 Total Benzofluoranthenes

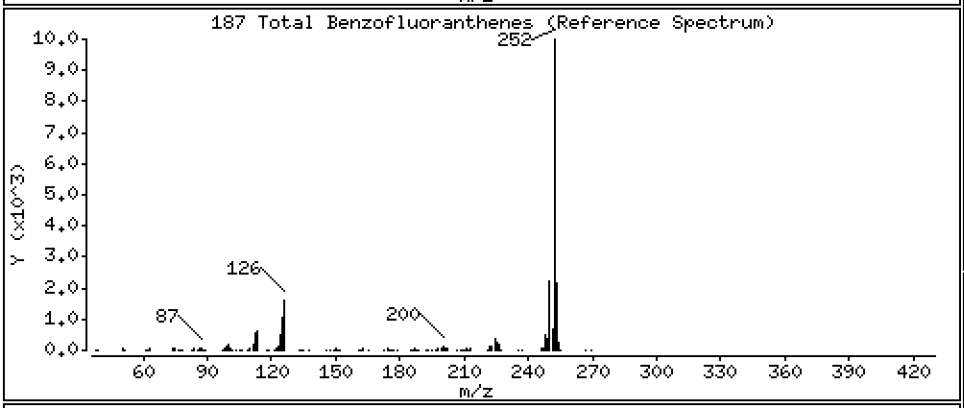
Concentration: 9.142 ug/mL

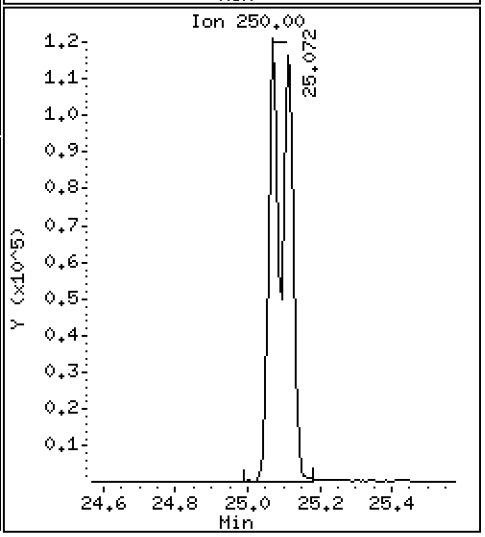


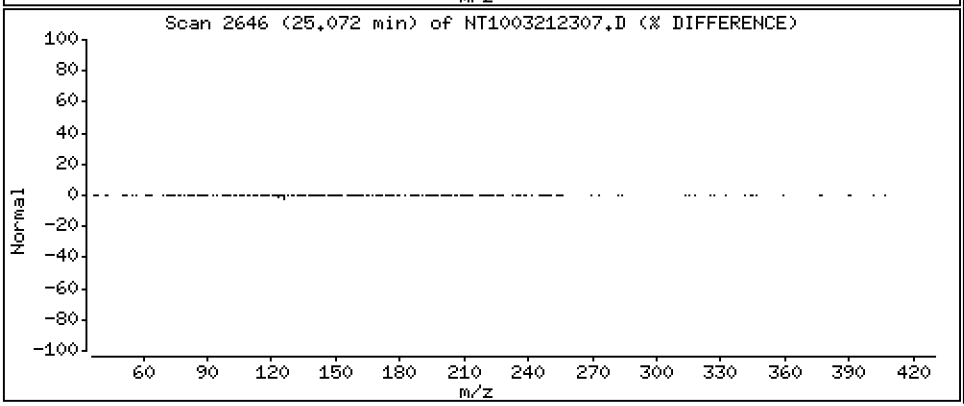












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Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS1

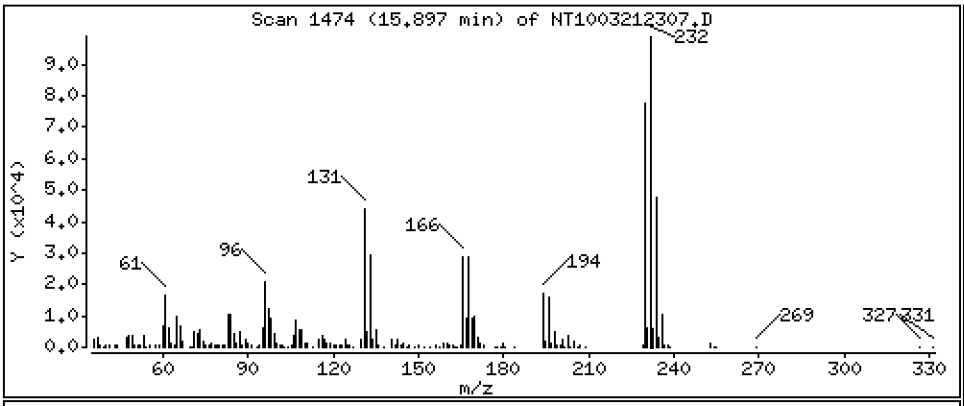
Operator: VTS

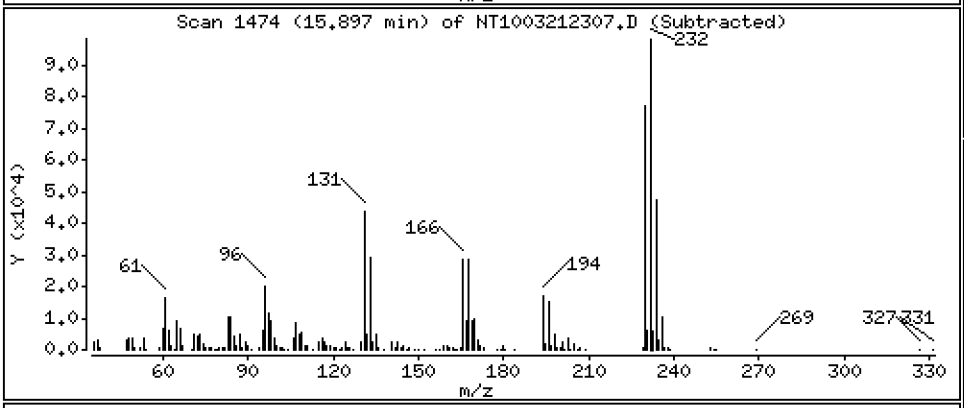
Column phase: ZB-5msi

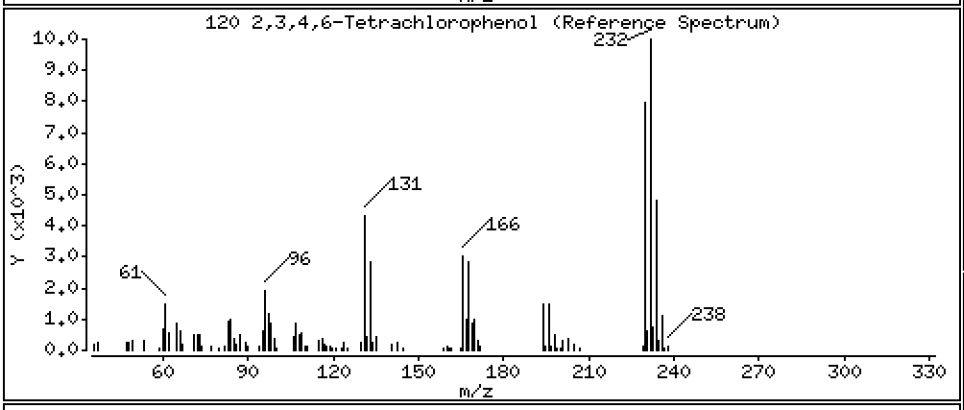
Column diameter: 0.25

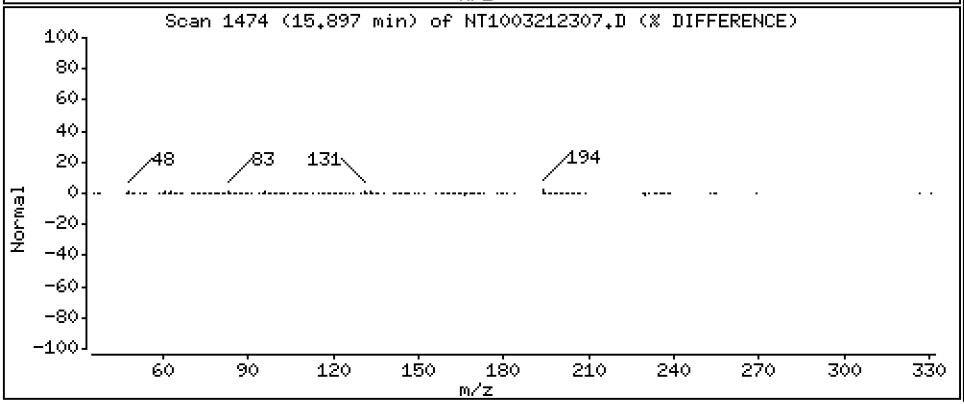
120 2,3,4,6-Tetrachlorophenol

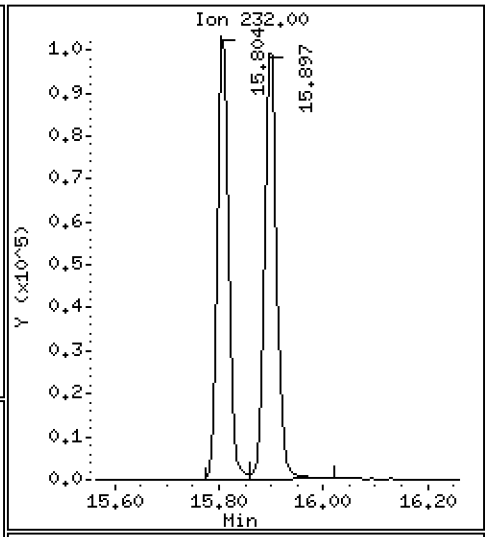
Concentration: 4.175 ug/mL

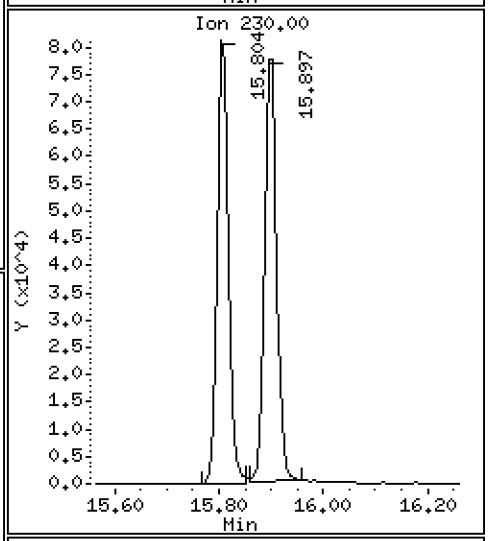


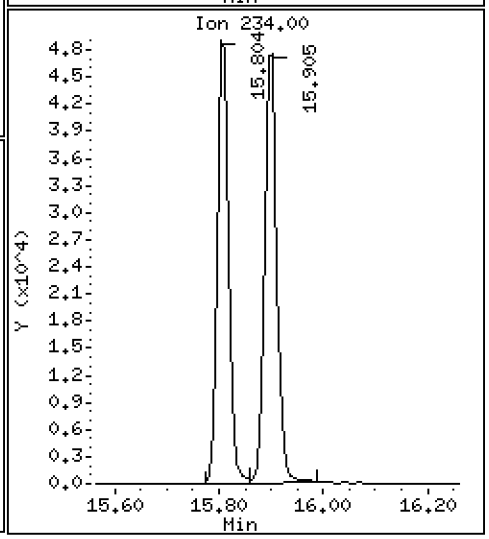












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230321.b\NT1003212307.D
Lab Smp Id: BLC0109-BS1
Inj Date : 21-MAR-2023 21:00
Operator : VTS Inst ID: nt10.i
Smp Info : BLC0109-BS1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230321.b\ABN.m
Meth Date : 29-Mar-2023 06:54 van Quant Type: ISTD
Cal Date : 16-MAR-2023 00:22 Cal File: NT10031508.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)	
$	1 2-Fluorophenol	112	6.890	6.889	(0.728)	305784	5.02458	5.025	
$	2 Phenol-d5	99	8.466	8.473	(0.894)	423097	5.29957	5.300	
	3 Phenol	94	8.489	8.497	(0.897)	288357	3.47576	3.476	
$	5 2-Chlorophenol-d4	132	8.744	8.744	(0.924)	383045	5.61860	5.619	
	4 Bis(2-Chloroethyl)ether	93	8.651	8.659	(0.914)	238859	3.88191	3.882	
	6 2-Chlorophenol	128	8.775	8.775	(0.927)	244834	3.44816	3.448	
	7 1,3-Dichlorobenzene	146	9.038	9.045	(0.955)	266948	3.55618	3.556	
*	8 1,4-Dichlorobenzene-d4	152	9.108	9.108	(1.000)	201241	4.00000		(H)
	9 1,4-Dichlorobenzene	146	9.139	9.139	(0.966)	294082	4.05545	4.055	
$	10 1,2-Dichlorobenzene-d4	152	9.465	9.465	(1.000)	174754	3.56934	3.569	
	12 1,2-Dichlorobenzene	146	9.488	9.496	(1.002)	259701	3.63902	3.639	
	11 Benzyl alcohol	108	9.372	9.379	(0.990)	148702	3.81875	3.819	
	14 2,2'-oxybis(1-Chloropropane)	121	9.674	9.682	(1.022)	87686	4.18388	4.184	
	13 2-Methylphenol	108	9.597	9.604	(1.014)	193083	3.19267	3.193	
	17 Hexachloroethane	117	10.078	10.086	(1.065)	105090	3.53219	3.532	
	16 N-Nitroso-di-n-propylamine	70	9.931	9.938	(1.049)	167207	3.50148	3.501	
	15 4-Methylphenol	108	9.876	9.876	(1.043)	224881	3.52911	3.529	
$	18 Nitrobenzene-d5	82	10.194	10.202	(0.880)	271041	3.65138	3.651	
	19 Nitrobenzene	77	10.233	10.241	(0.884)	263884	3.62245	3.622	
	20 Isophorone	82	10.676	10.683	(0.922)	502325	5.39031	5.390	
	21 2-Nitrophenol	139	10.858	10.858	(0.938)	156904	4.40890	4.409	
	22 2,4-Dimethylphenol	107	10.909	10.918	(0.942)	304924	4.55722	4.557	
	23 Bis(2-Chloroethoxy)methane	93	11.104	11.113	(0.959)	268382	4.31142	4.311	
	24 Benzoic acid	105	11.147	11.113	(0.963)	1088153	27.3877	27.39	
	25 2,4-Dichlorophenol	162	11.308	11.316	(0.977)	663246	12.3869	12.39	
	26 1,2,4-Trichlorobenzene	180	11.495	11.502	(0.993)	230700	3.67051	3.671	
*	27 Naphthalene-d8	136	11.580	11.587	(1.000)	735413	4.00000		
	28 Naphthalene	128	11.618	11.626	(1.003)	731720	3.75584	3.756	
	29 4-Chloroaniline	127	11.750	11.757	(1.015)	228377	3.00482	3.005	
	30 Hexachlorobutadiene	225	11.981	11.989	(1.035)	143807	3.90484	3.905	
	31 4-Chloro-3-methylphenol	107	12.709	12.716	(1.098)	734636	12.6740	12.67	
	32 2-Methylnaphthalene	142	13.011	13.018	(1.124)	534664	3.80287	3.803	
	33 Hexachlorocyclopentadiene	237	13.475	13.483	(0.888)	352451	9.11222	9.112	

			QUANT SIG					CONCENTRATIONS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
	34	2,4,6-Trichlorophenol	196	13.630	13.637	(0.898)	531596	12.8695	12.87
	35	2,4,5-Trichlorophenol	196	13.699	13.707	(0.903)	571070	12.4423	12.44
$	36	2-Fluorobiphenyl	172	13.785	13.800	(0.908)	632079	3.82333	3.823
	37	2-Chloronaphthalene	162	13.994	14.009	(0.922)	508198	3.79642	3.796
	38	2-Nitroaniline	65	14.257	14.272	(0.939)	439755	11.6950	11.69
	39	Dimethylphthalate	163	14.690	14.698	(0.968)	604199	4.45024	4.450
	40	Acenaphthylene	152	14.860	14.876	(0.979)	734930	3.52333	3.523
	41	2,6-Dinitrotoluene	165	14.829	14.837	(0.977)	413569	14.1010	14.10
*	42	Acenaphthene-d10	164	15.178	15.185	(1.000)	417930	4.00000	
	43	3-Nitroaniline	138	15.108	15.116	(0.995)	246103	7.43431	7.434
	44	Acenaphthene	153	15.239	15.247	(1.004)	507713	3.93994	3.940
	45	2,4-Dinitrophenol	184	15.317	15.324	(1.009)	516714	27.5591	27.56
	46	Dibenzofuran	168	15.564	15.572	(1.025)	760277	4.00087	4.001
	47	4-Nitrophenol	109	15.433	15.432	(1.017)	231826	11.2126	11.21
	48	2,4-Dinitrotoluene	165	15.626	15.641	(1.030)	576274	13.2725	13.27
	50	Diethylphthalate	149	16.136	16.144	(1.063)	630617	4.73404	4.734
	49	Fluorene	166	16.275	16.283	(1.072)	616406	4.12310	4.123
	51	4-Chlorophenyl-phenylether	204	16.268	16.275	(1.072)	311334	4.37930	4.379
	52	4-Nitroaniline	138	16.376	16.375	(1.079)	256413	8.59502	8.595
	53	4,6-Dinitro-2-methylphenol	198	16.460	16.468	(0.905)	667510	28.2005	28.20
	54	N-Nitrosodiphenylamine	169	16.514	16.522	(0.908)	349172	3.43970	3.440
$	55	2,4,6-Tribromophenol	330	16.807	16.815	(1.107)	147586	7.58079	7.581
	56	4-Bromophenyl-phenylether	248	17.262	17.270	(0.949)	201728	4.75023	4.750
	57	Hexachlorobenzene	284	17.571	17.587	(0.966)	199220	4.47442	4.474
	58	Pentachlorophenol	266	17.928	17.943	(0.986)	394970	14.5725	14.57
*	59	Phenanthrene-d10	188	18.191	18.206	(1.000)	759275	4.00000	
	60	Phenanthrene	178	18.237	18.252	(1.003)	866808	4.18671	4.187
	61	Anthracene	178	18.330	18.338	(1.008)	726844	3.65979	3.660
	62	Carbazole	167	18.663	18.670	(1.026)	665410	3.73896	3.739
	63	Di-n-butylphthalate	149	19.460	19.475	(1.070)	1120468	4.70597	4.706
	64	Fluoranthene	202	20.620	20.620	(0.888)	1045376	4.11165	4.112
	65	Pyrene	202	21.038	21.046	(0.906)	1051168	4.03036	4.030
$	66	Terphenyl-d14	244	21.324	21.332	(0.918)	852083	4.35036	4.350
	67	Butylbenzylphthalate	149	22.253	22.261	(0.958)	450373	4.77266	4.773
	68	Benzo(a)anthracene	228	23.198	23.198	(0.999)	956472	4.28261	4.283
*	69	Chrysene-d12	240	23.221	23.229	(1.000)	632743	4.00000	
	70	3,3'-Dichlorobenzidine	252	23.159	23.159	(0.997)	492985	6.89119	6.891
	71	Chrysene	228	23.268	23.275	(1.002)	905627	4.15048	4.150
	72	bis(2-Ethylhexyl)phthalate	149	23.283	23.283	(0.959)	657762	4.34115	4.341
*	134	Di-n-octylphthalate-d4	153	24.266	24.266	(1.000)	1033131	4.00000	
	73	Di-n-octylphthalate	149	24.274	24.282	(1.000)	1188871	4.39731	4.397
	74	Benzo(b)fluoranthene	252	25.072	25.071	(0.971)	1054287	4.78546	4.785
	75	Benzo(k)fluoranthene	252	25.110	25.118	(0.972)	990961	4.42972	4.430
	76	Benzo(a)pyrene	252	25.722	25.722	(0.996)	838614	4.25757	4.258
*	77	Perylene-d12	264	25.830	25.830	(1.000)	679654	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	28.466	28.466	(1.102)	1087327	4.33901	4.339
	79	Dibenzo(a,h)anthracene	278	28.482	28.482	(1.103)	925183	4.44697	4.447
	80	Benzo(g,h,i)perylene	276	29.243	29.235	(1.132)	932592	4.30028	4.300
	90	N-Nitrosodimethylamine	74	4.742	4.727	(0.501)	293397	7.55674	7.557
	91	Aniline	93	8.566	8.566	(0.905)	178986	2.10554	2.106
	93	Benzidine	184	Compound Not Detected.					
	103	Pyridine	79	Compound Not Detected.					
	105	1-methylnaphthalene	142	13.227	13.243	(1.142)	516679	4.01103	4.011
	111	Azobenzene (1,2-DP-Hydrazine)	77	16.584	16.599	(1.093)	563365	3.78598	3.786

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.072	25.118	(0.971)	1944729	9.14241	9.142
120 2,3,4,6-Tetrachlorophenol	232	15.896	15.912	(1.047)	180392	4.17542	4.175

QC Flag Legend

H - Operator selected an alternate compound hit.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1003212307.D
Lab Smp Id: BLC0109-BS1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230321.b\ABN.m
Misc Info:

Calibration Date: 21-MAR-2023
Calibration Time: 17:46
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	138414	69207	276828	201241	45.39
27 Naphthalene-d8	511348	255674	1022696	735413	43.82
42 Acenaphthene-d10	293241	146621	586482	417930	42.52
59 Phenanthrene-d10	535484	267742	1070968	759275	41.79
69 Chrysene-d12	464733	232367	929466	632743	36.15
134 Di-n-octylphthala	716354	358177	1432708	1033131	44.22
77 Perylene-d12	509704	254852	1019408	679654	33.34

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.11	8.61	9.61	9.11	0.00
27 Naphthalene-d8	11.59	11.09	12.09	11.58	-0.07
42 Acenaphthene-d10	15.19	14.69	15.69	15.18	-0.05
59 Phenanthrene-d10	18.21	17.71	18.71	18.19	-0.08
69 Chrysene-d12	23.23	22.73	23.73	23.22	-0.03
134 Di-n-octylphthala	24.27	23.77	24.77	24.27	0.00
77 Perylene-d12	25.83	25.33	26.33	25.83	0.00

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

REVIEW SUMMARY FOR FILE - NT1003212307.D

Lab ID: BLC0109-BS1
nt10.i, 20230321.b\ABN.m,   21-MAR-2023 21:00

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

RRT check based on Ccal File: NT1003212302.D

On Column LOD for nt10.i, 20230321.b\ABN.m, ICAL.sub = 0.0000

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

Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212308.D

Page 1

Date : 21-MAR-2023 21:39

Client ID:

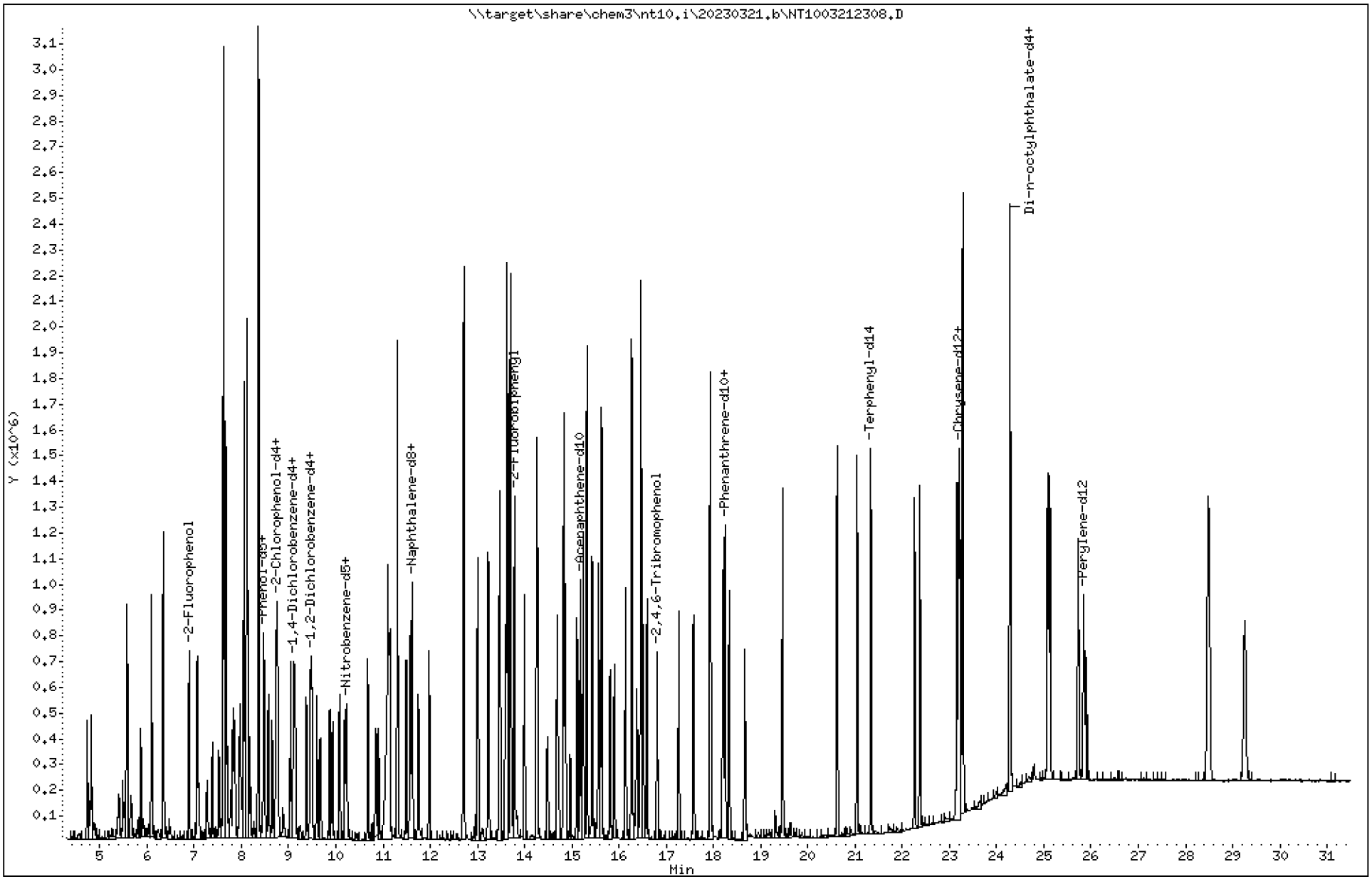
Instrument: nt10.i

Sample Info: BLC0109-BSD1

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



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Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD1

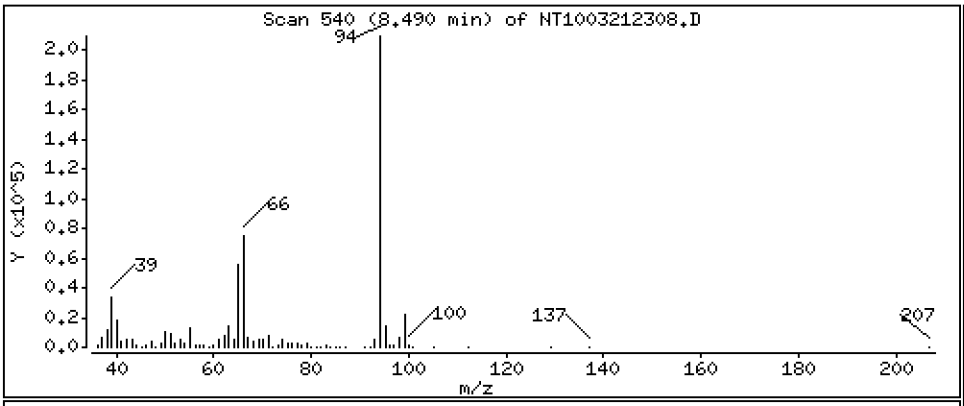
Operator: VTS

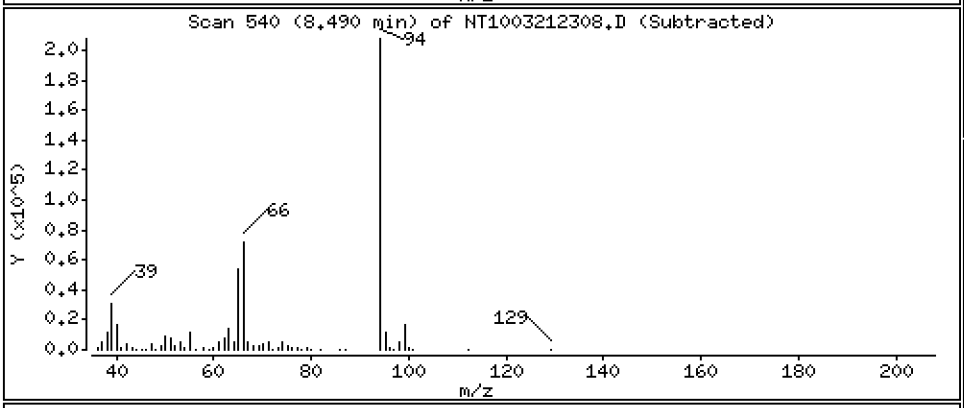
Column phase: ZB-5msi

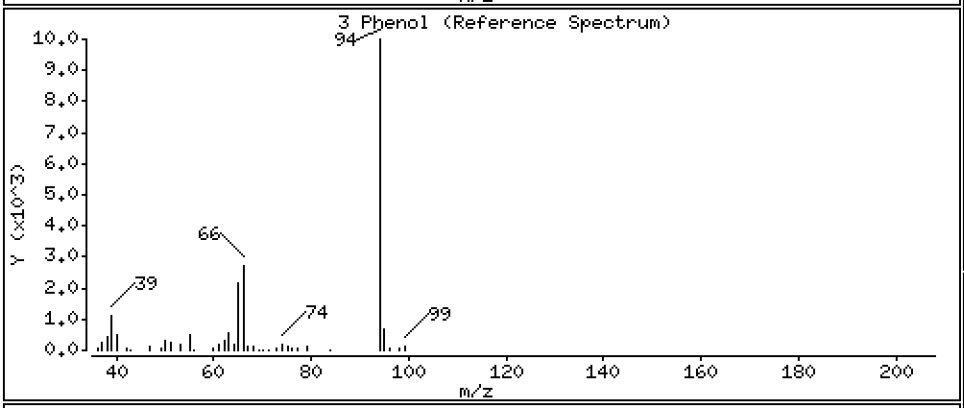
Column diameter: 0.25

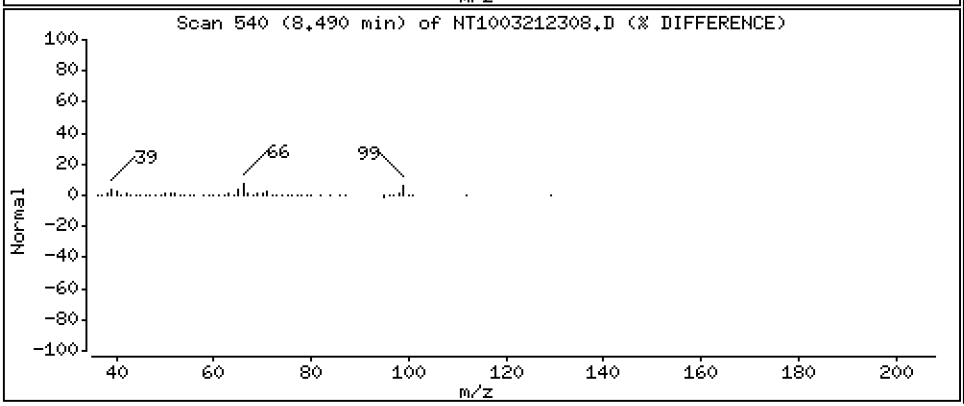
3 Phenol

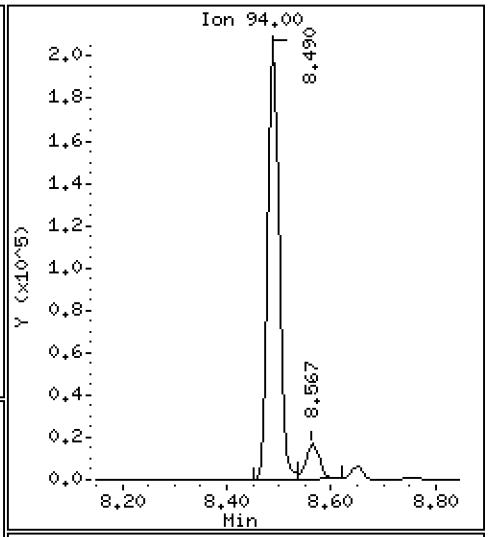
Concentration: 3.909 ug/mL

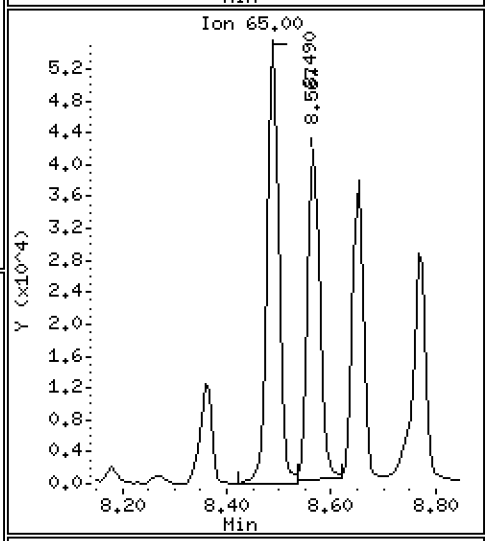


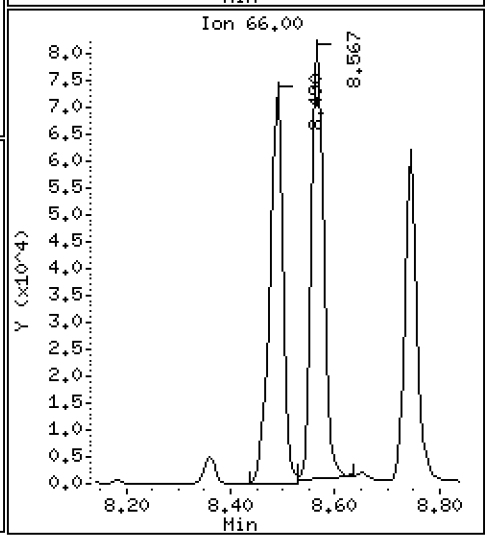












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Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD1

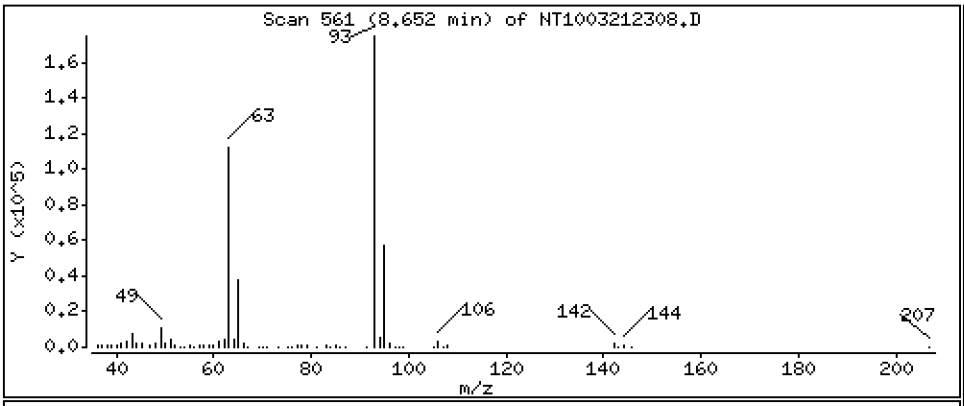
Operator: VTS

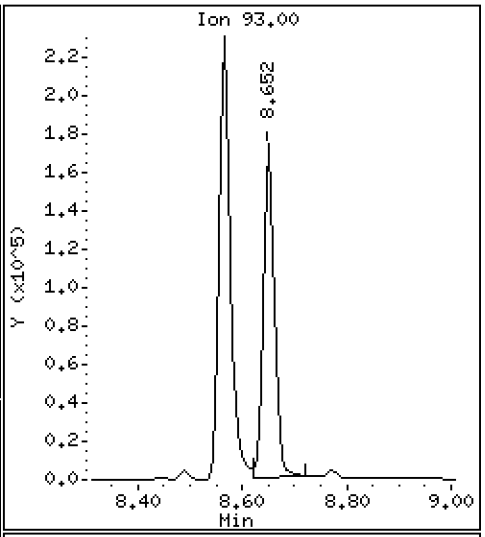
Column phase: ZB-5msi

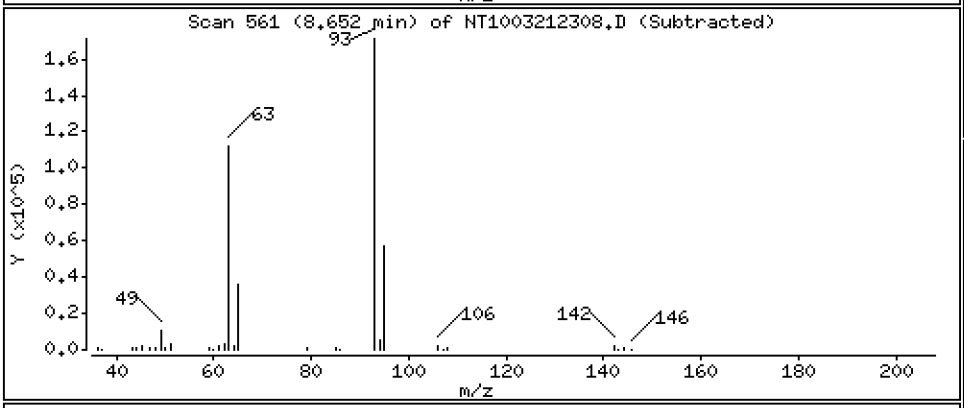
Column diameter: 0.25

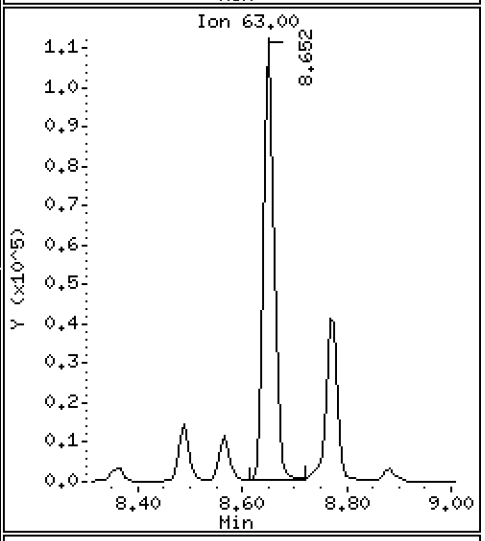
4 Bis(2-Chloroethyl)ether

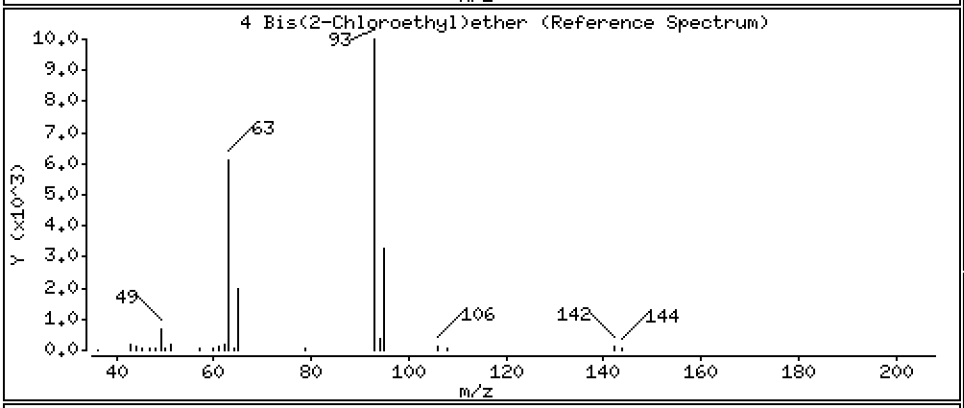
Concentration: 4.470 ug/mL

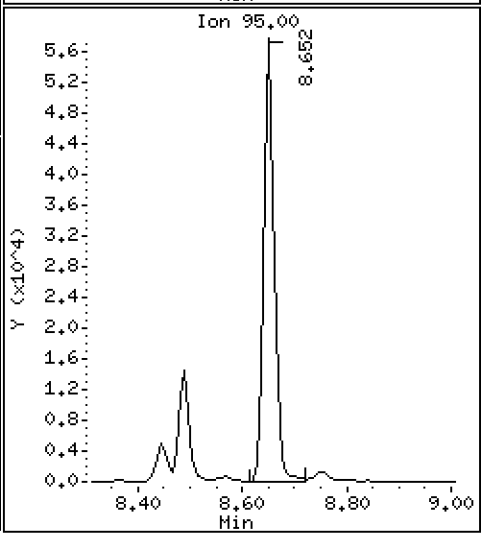


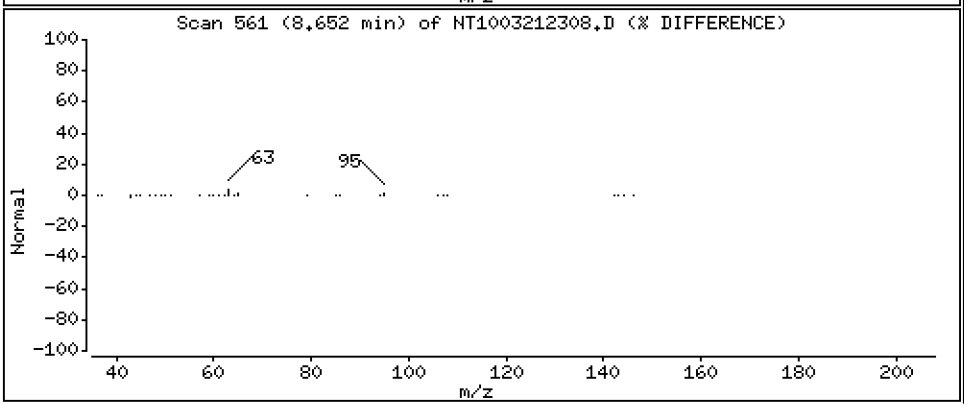












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Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD1

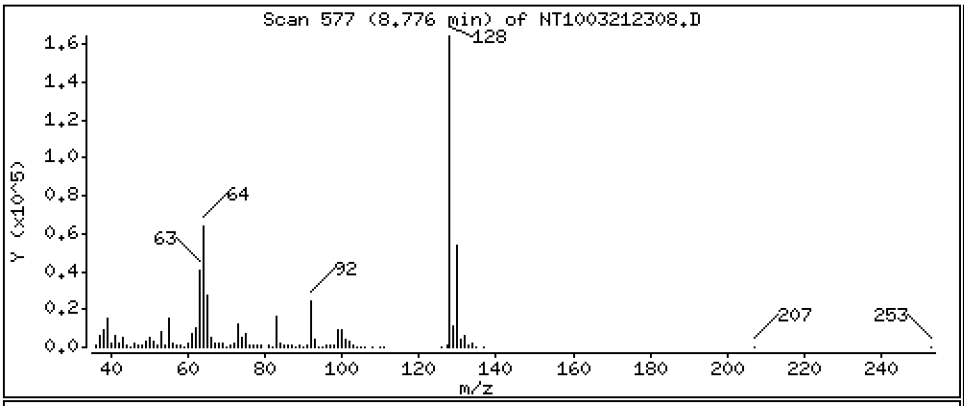
Operator: VTS

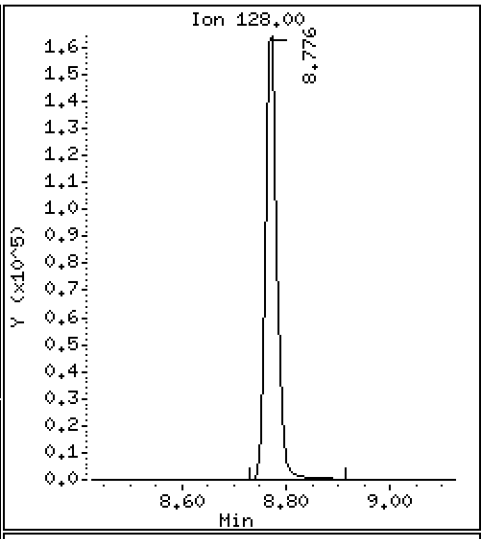
Column phase: ZB-5msi

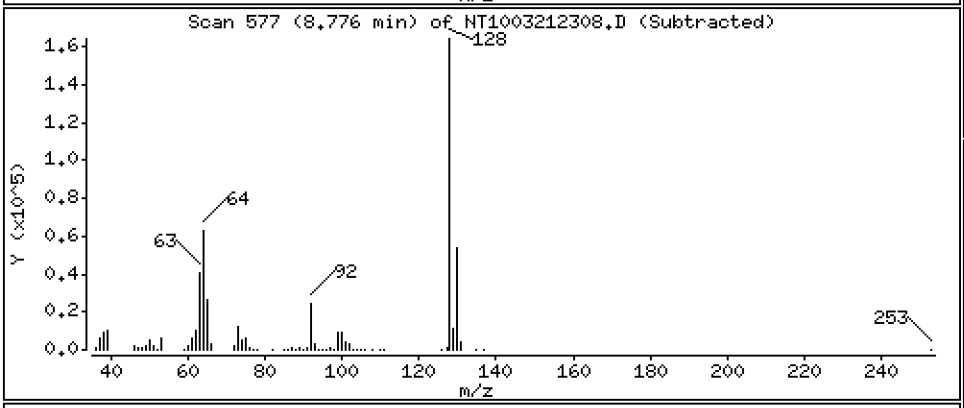
Column diameter: 0.25

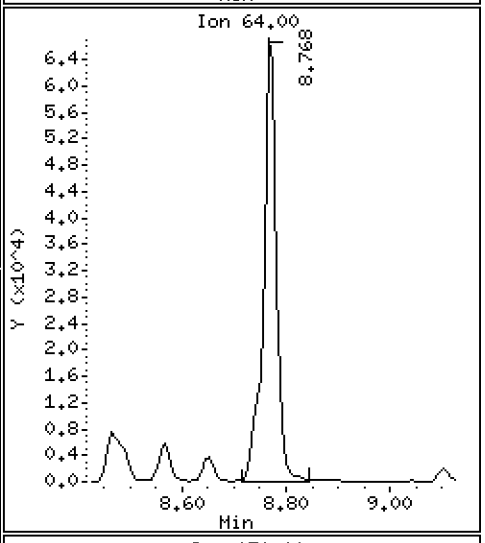
6 2-Chlorophenol

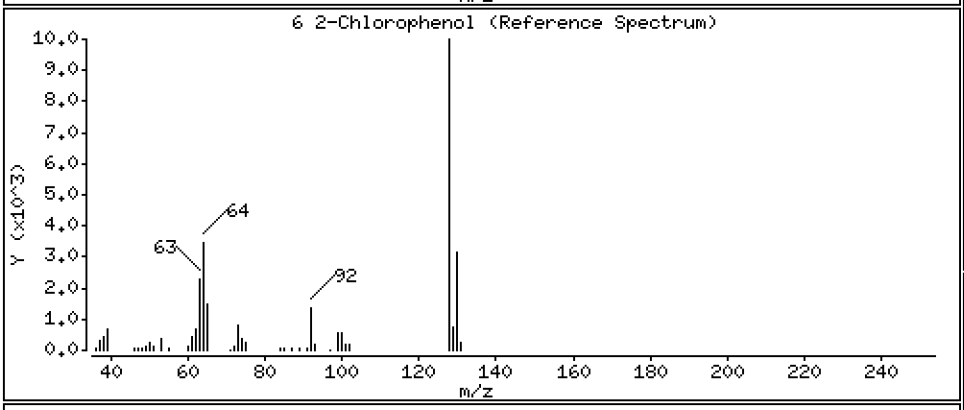
Concentration: 4.326 ug/mL

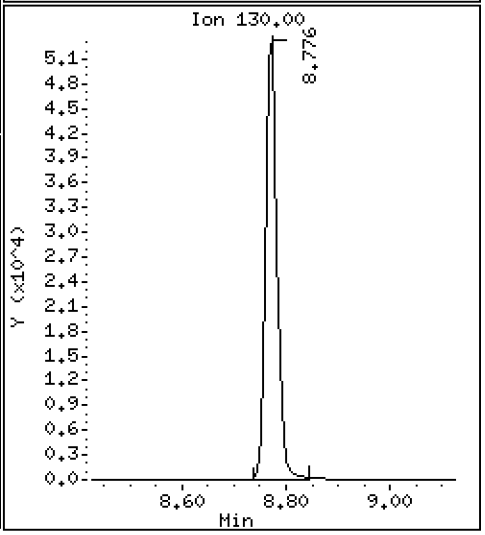


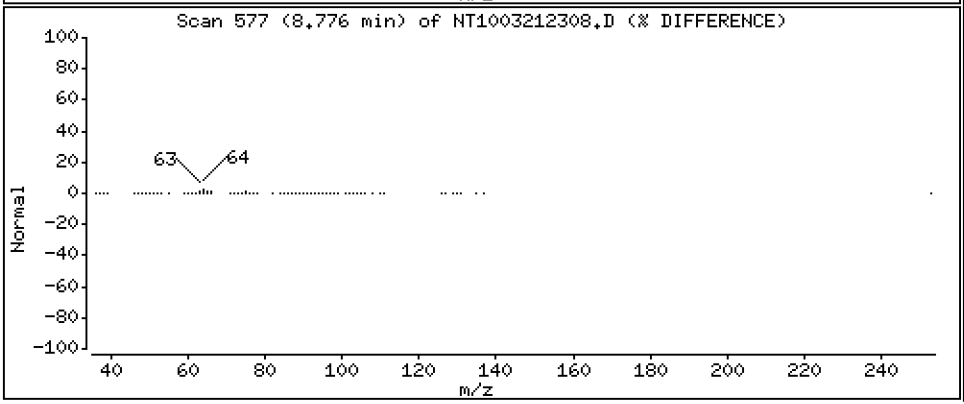












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Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD1

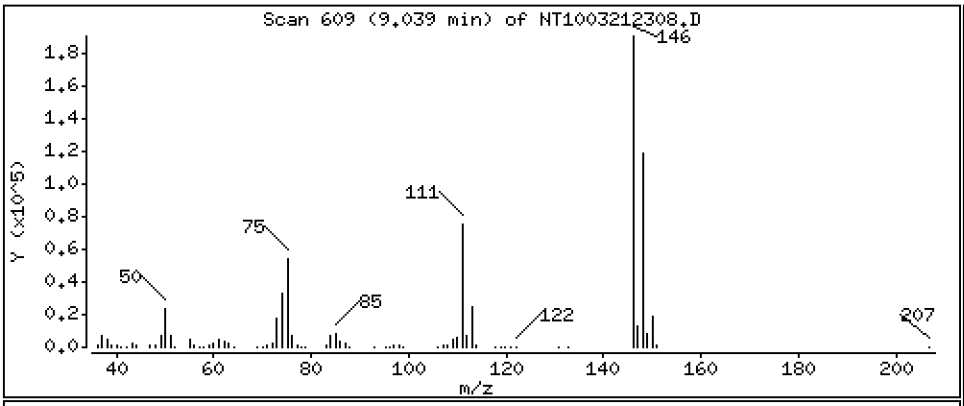
Operator: VTS

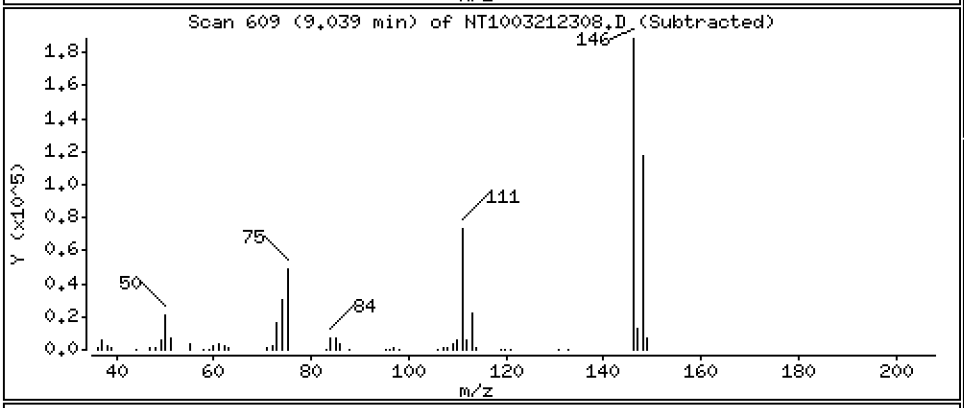
Column phase: ZB-5msi

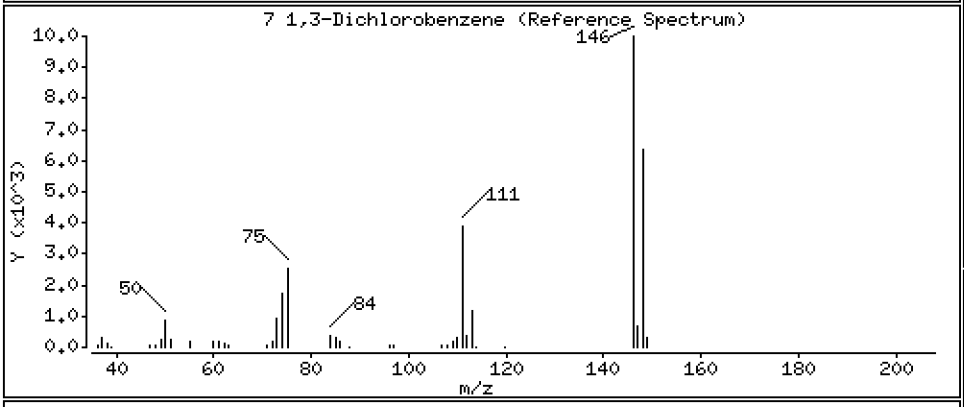
Column diameter: 0.25

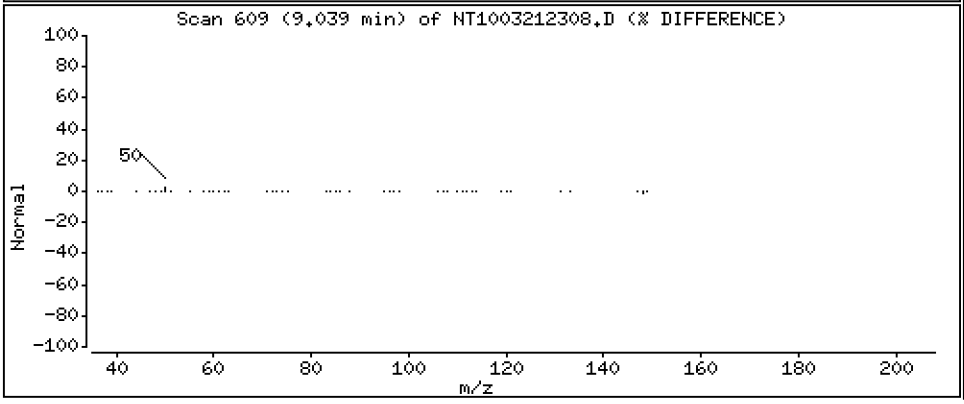
7 1,3-Dichlorobenzene

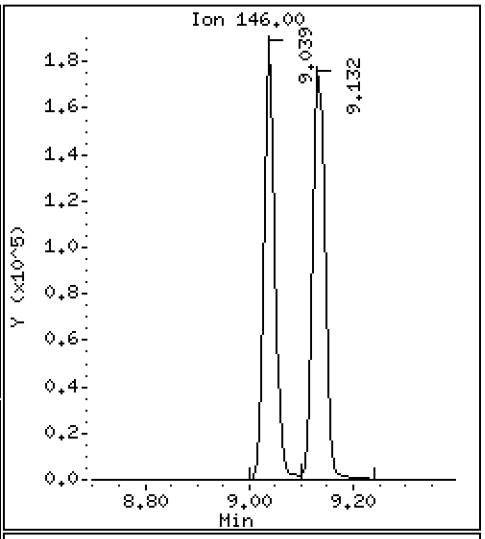
Concentration: 4.127 ug/mL

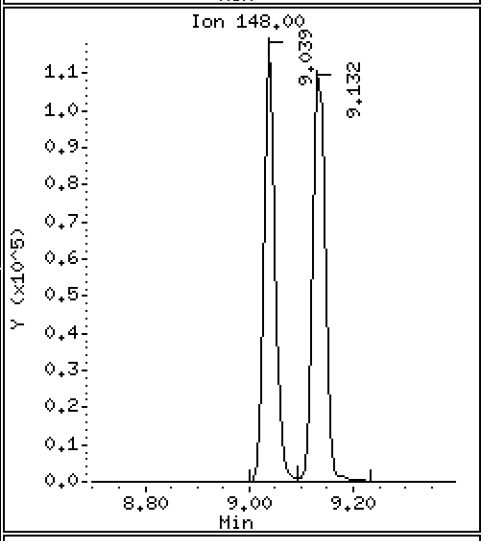


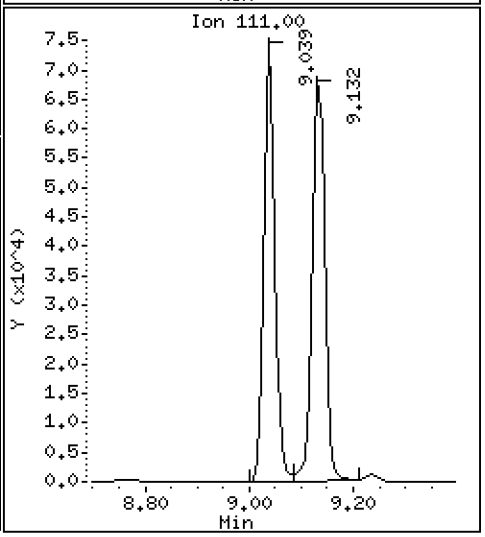












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Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD1

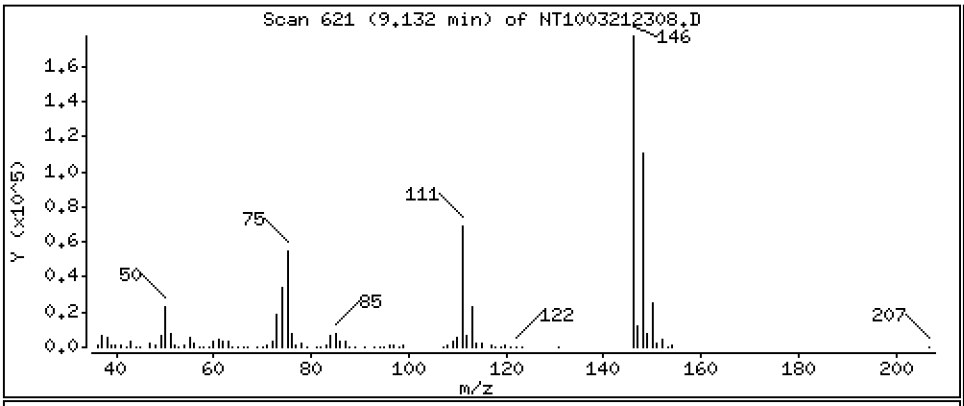
Operator: VTS

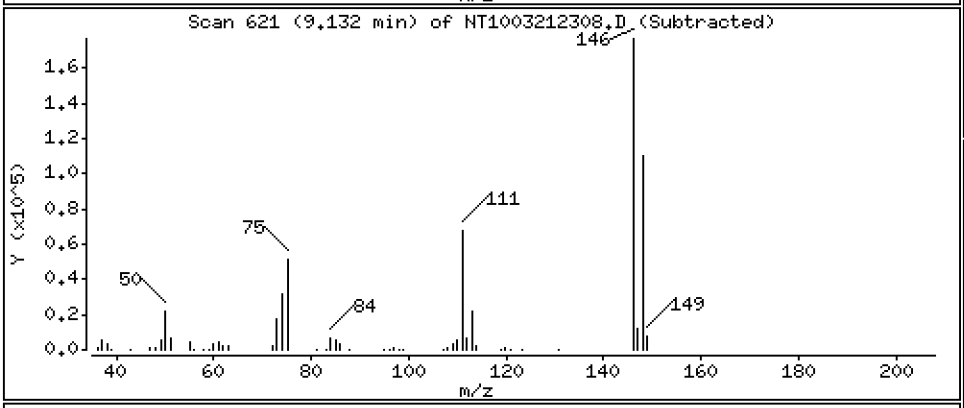
Column phase: ZB-5msi

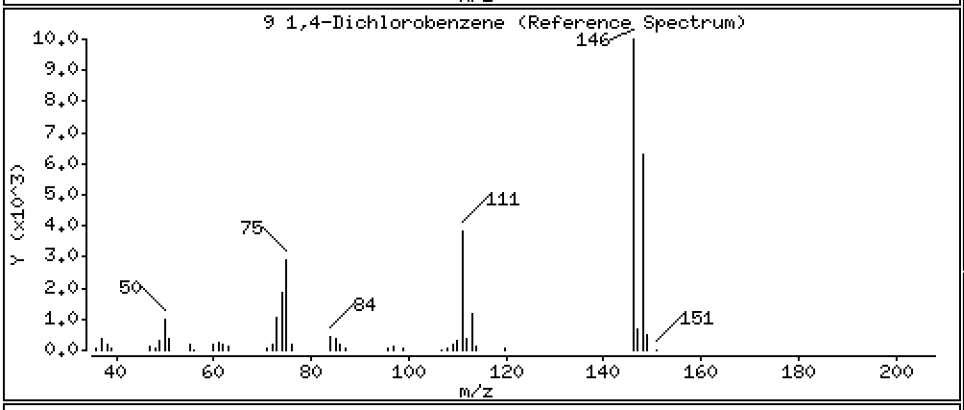
Column diameter: 0.25

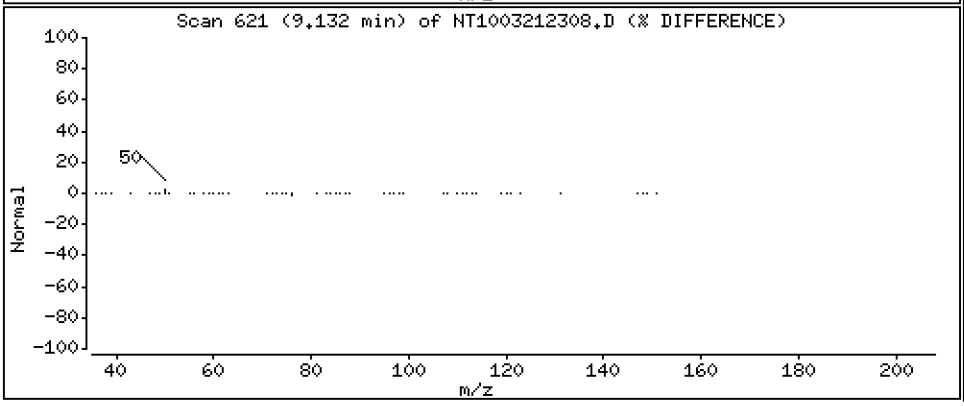
9 1,4-Dichlorobenzene

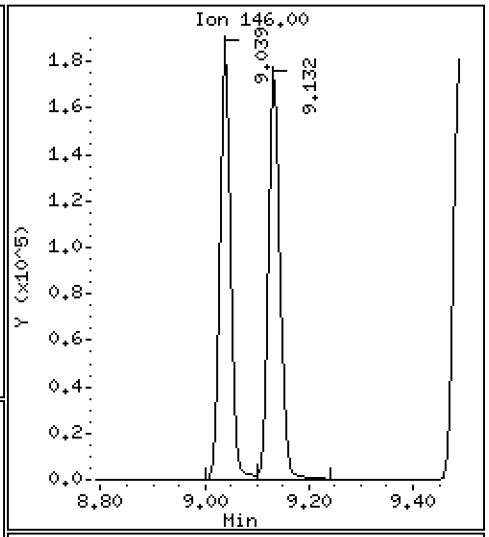
Concentration: 4.236 ug/mL

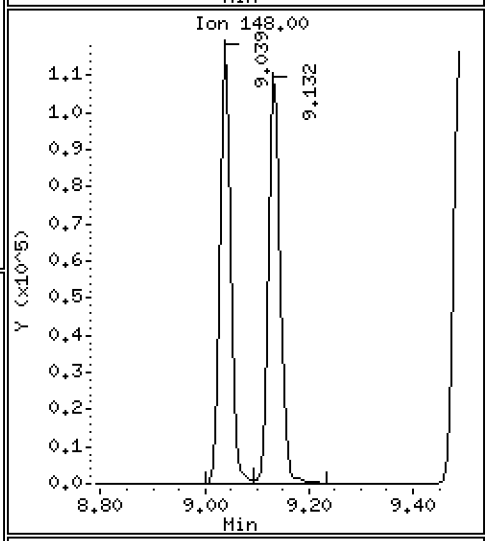


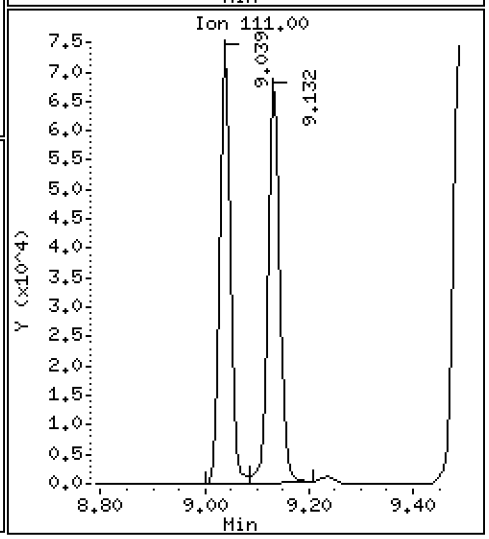












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212308.D

Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD1

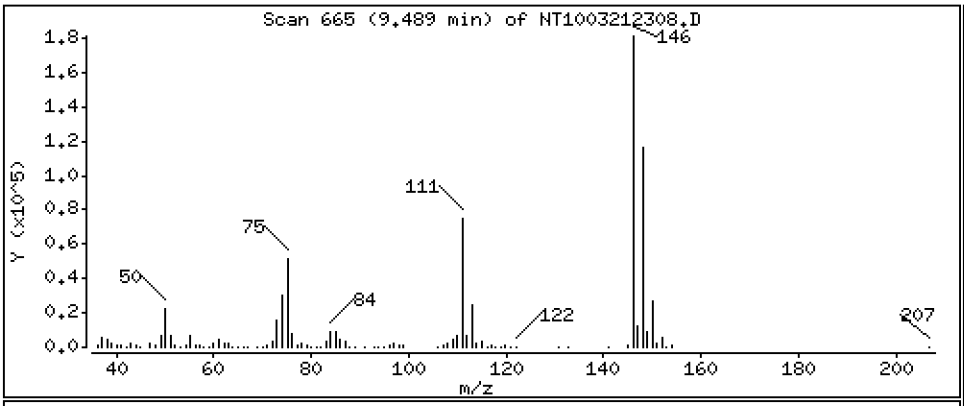
Operator: VTS

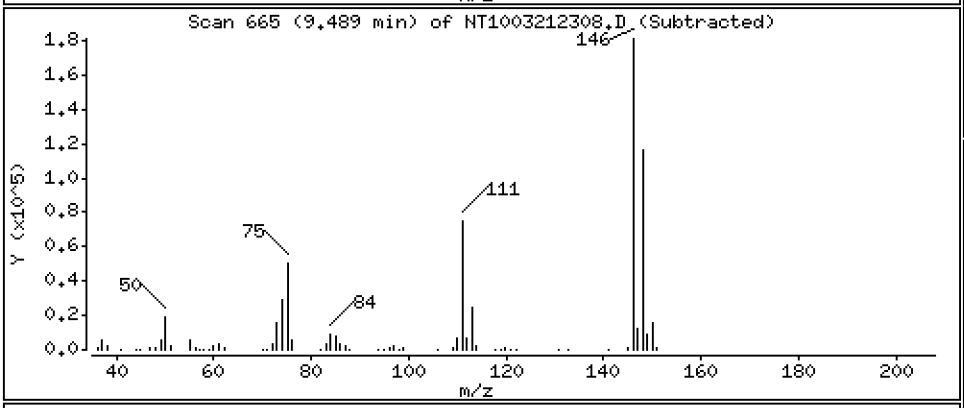
Column phase: ZB-5msi

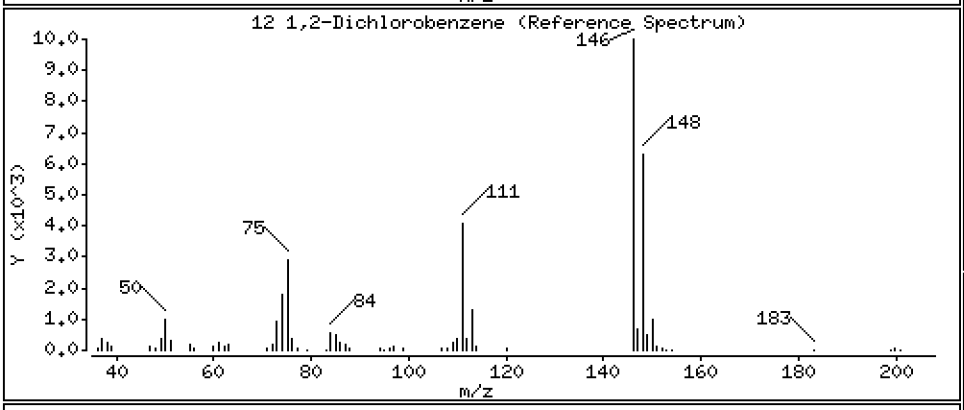
Column diameter: 0.25

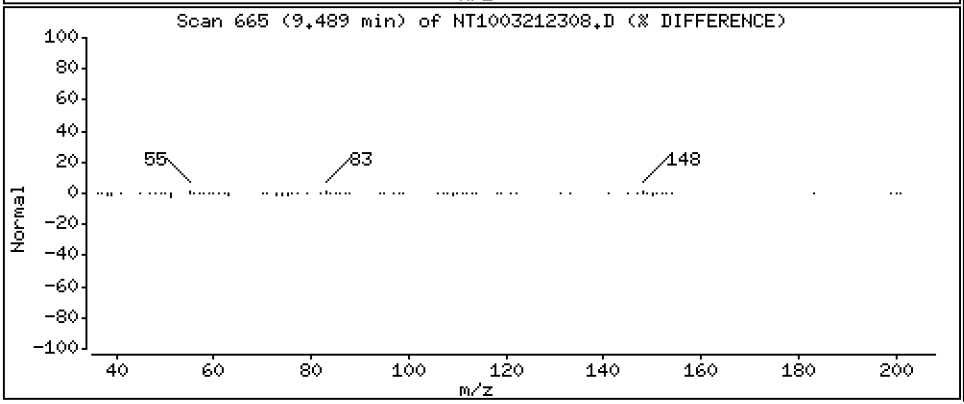
12 1,2-Dichlorobenzene

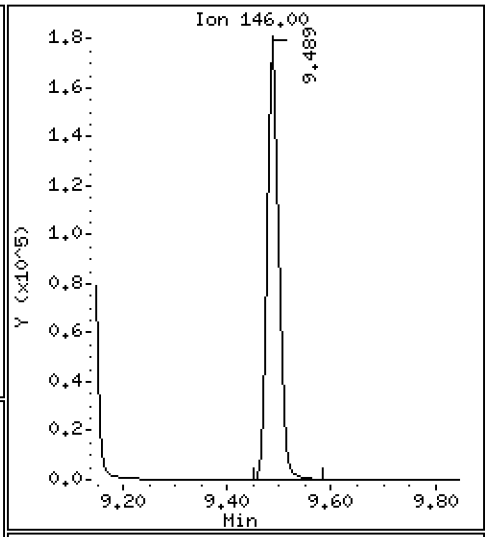
Concentration: 4.227 ug/mL

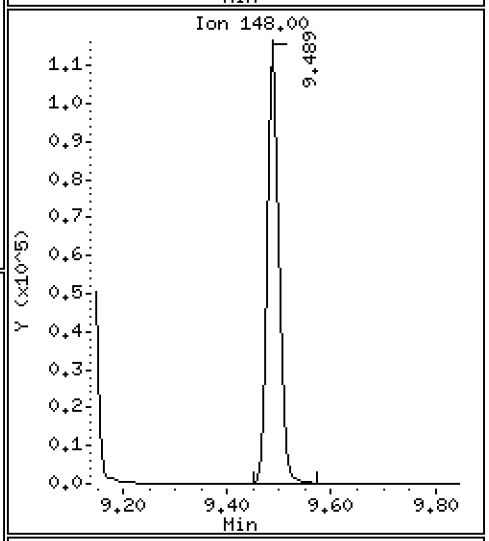


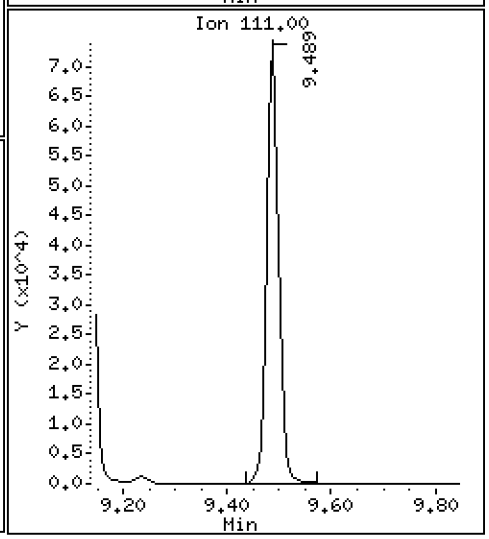












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Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD1

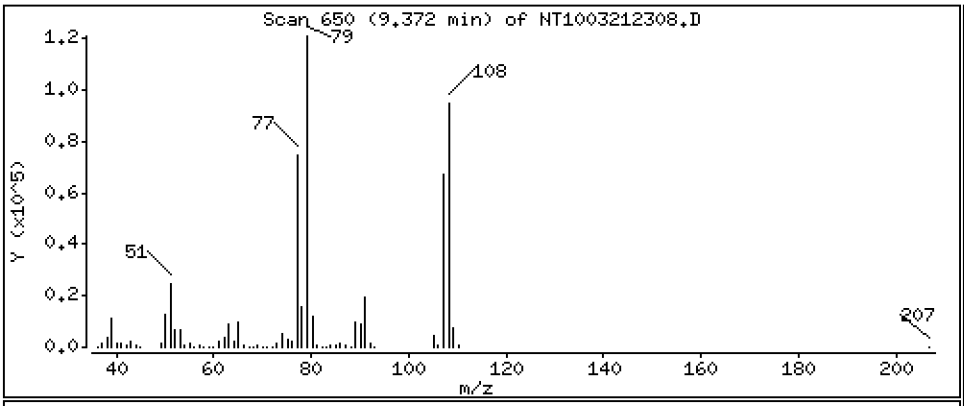
Operator: VTS

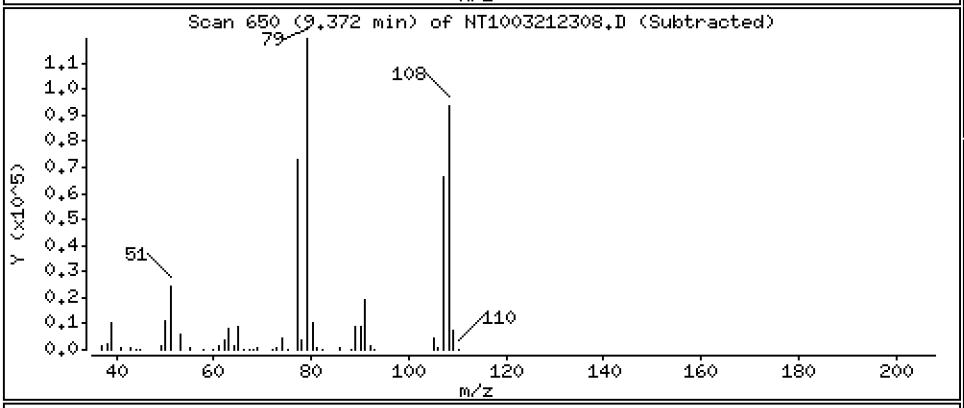
Column phase: ZB-5msi

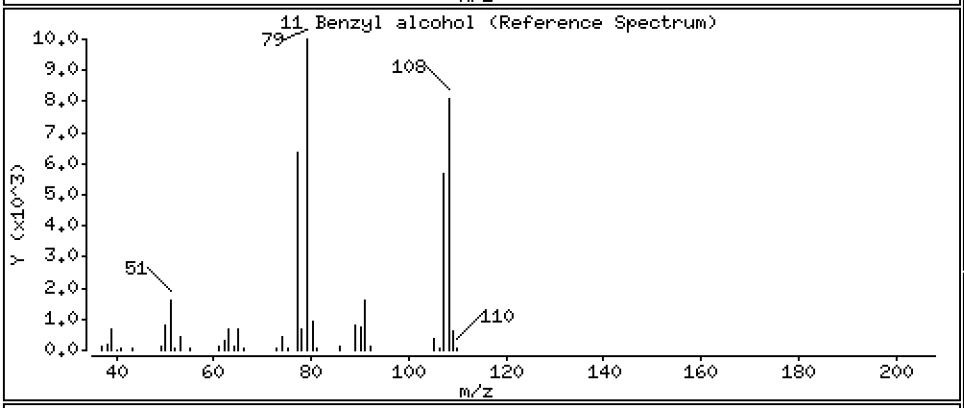
Column diameter: 0.25

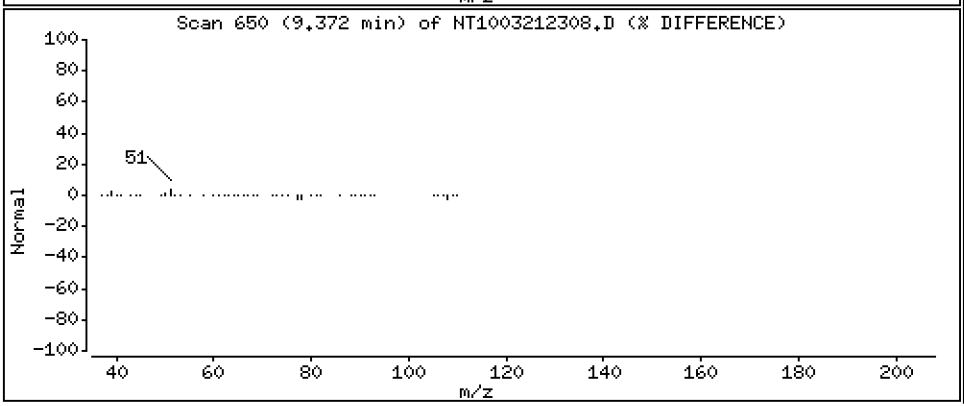
11 Benzyl alcohol

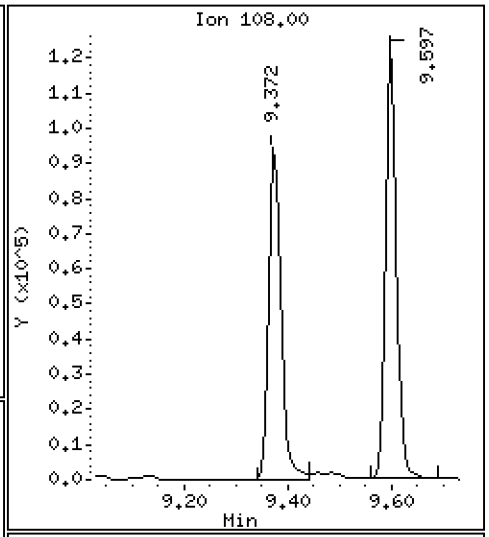
Concentration: 4.319 ug/mL

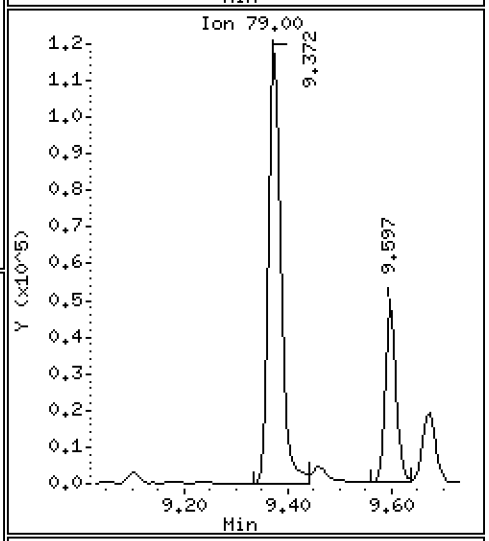


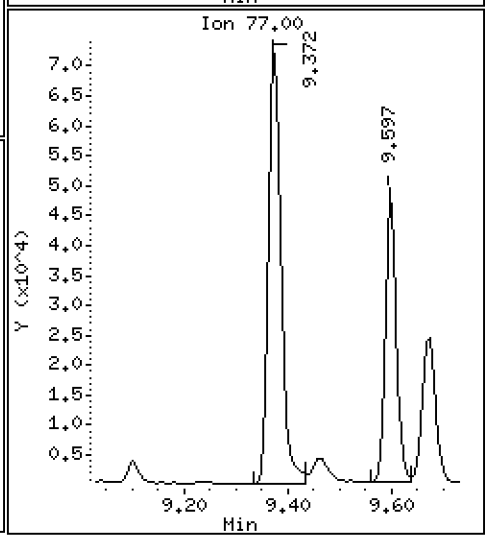












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Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD1

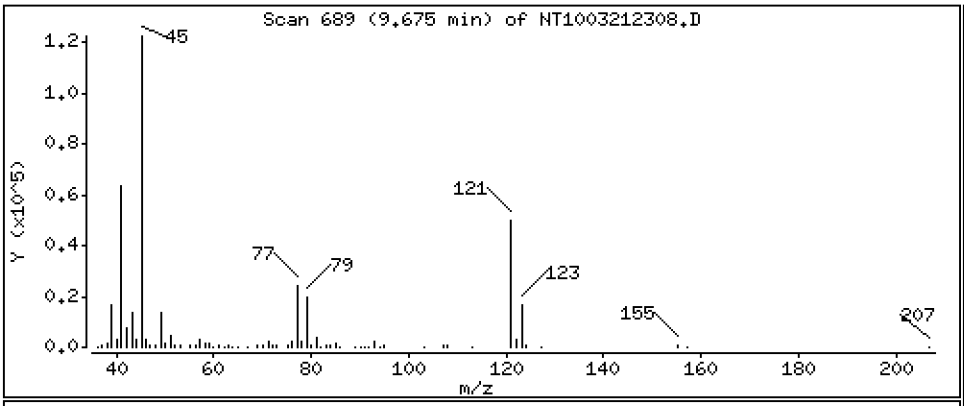
Operator: VTS

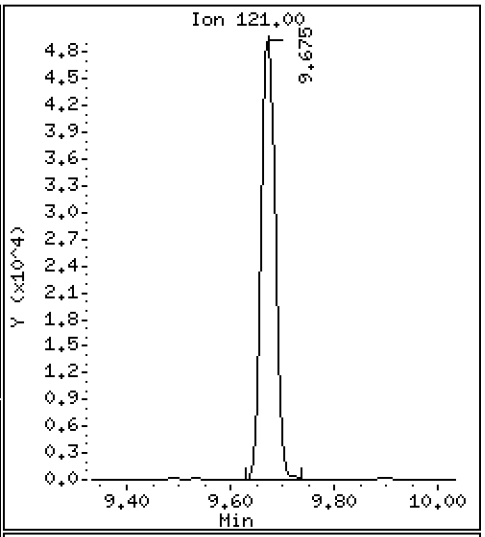
Column phase: ZB-5msi

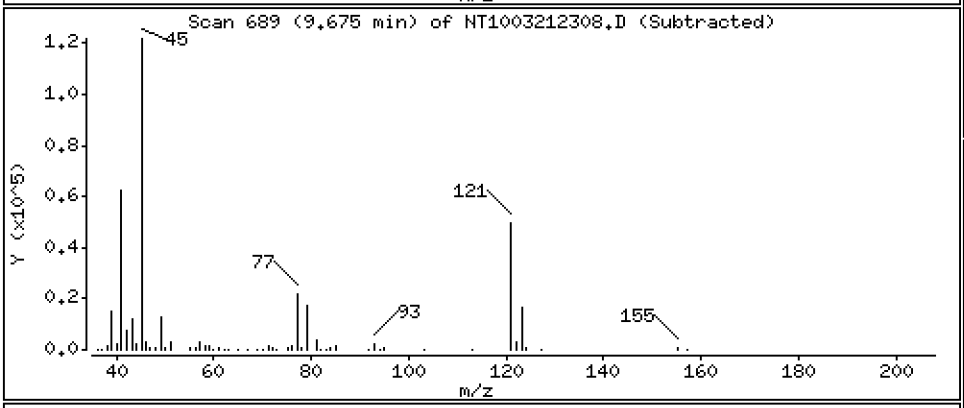
Column diameter: 0.25

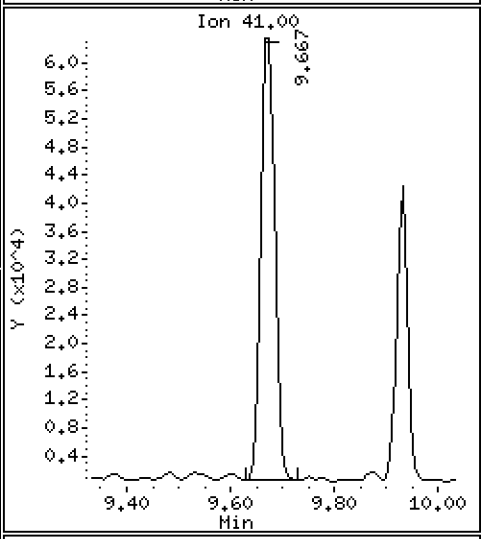
14 2,2'-oxybis(1-Chloropropane)

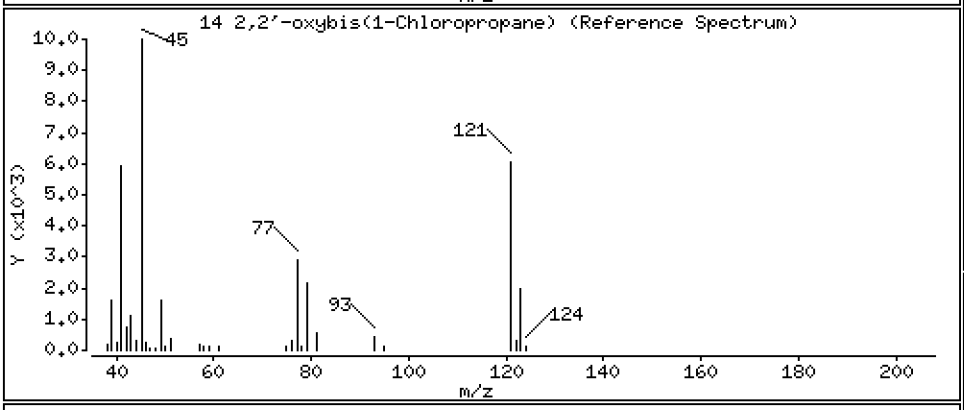
Concentration: 4.764 ug/mL

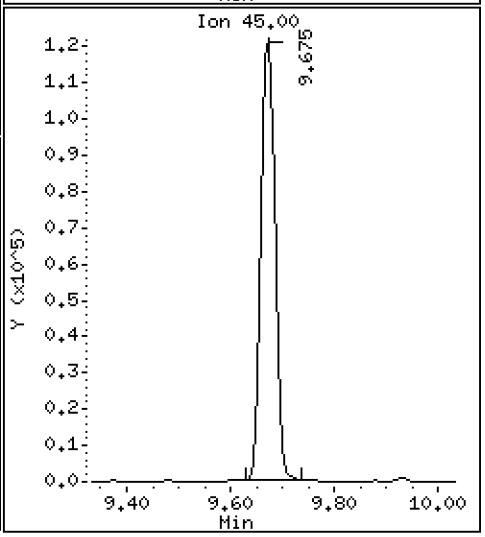


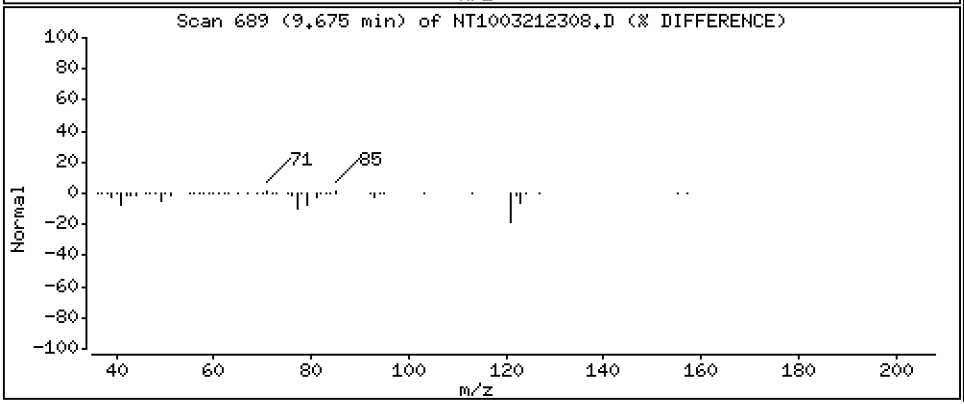












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Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD1

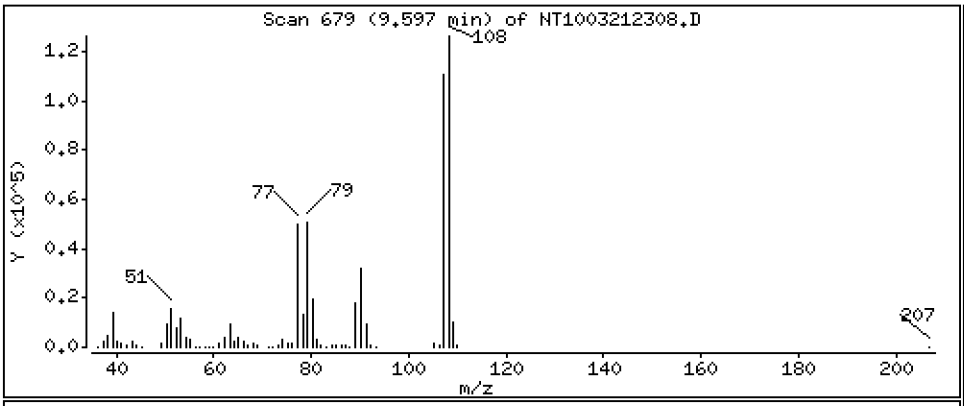
Operator: VTS

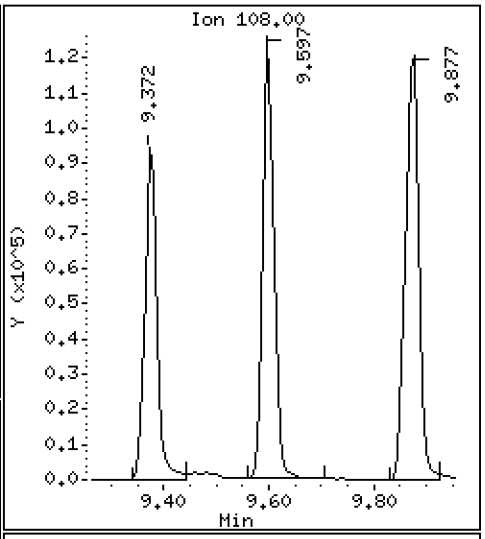
Column phase: ZB-5msi

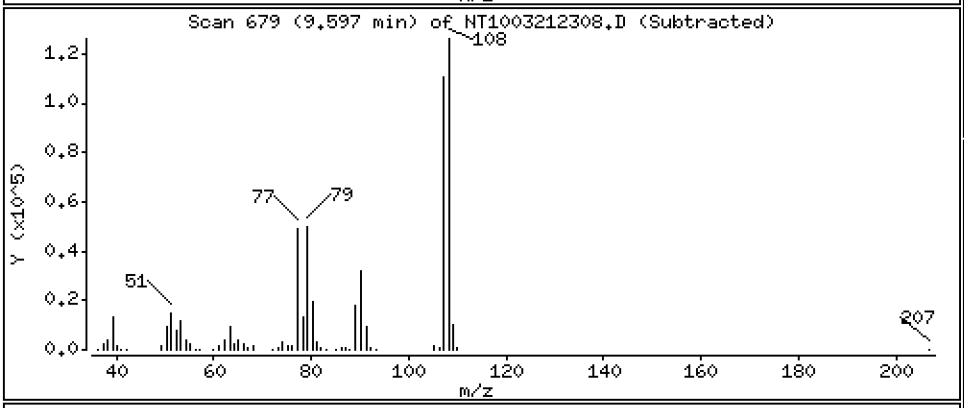
Column diameter: 0.25

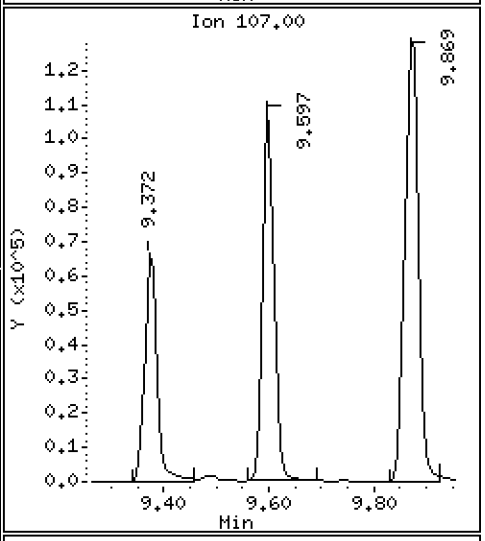
13 2-Methylphenol

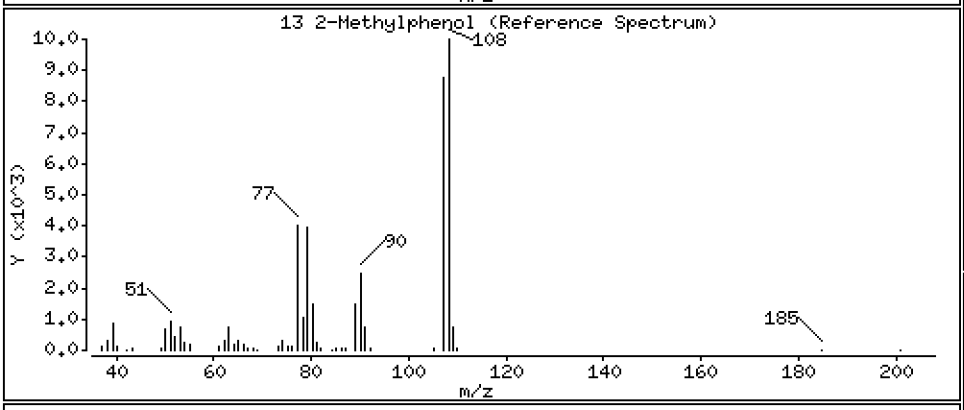
Concentration: 3.299 ug/mL

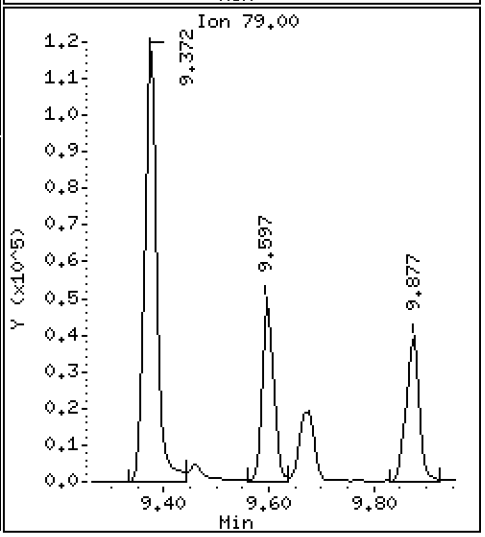


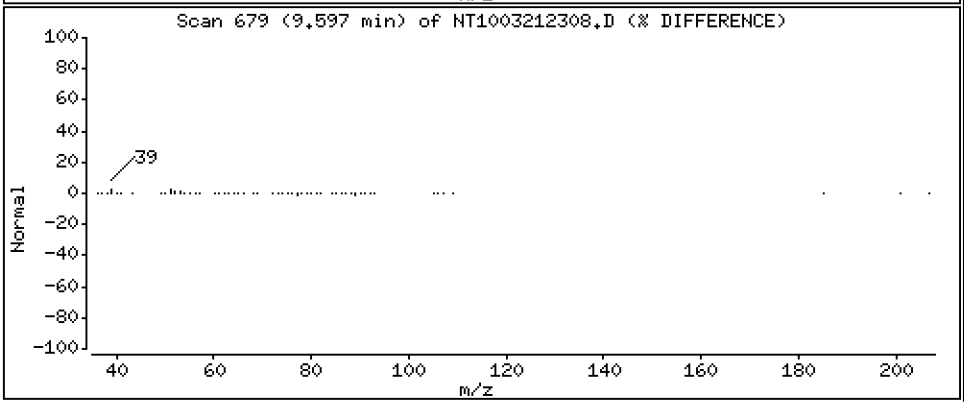












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Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD1

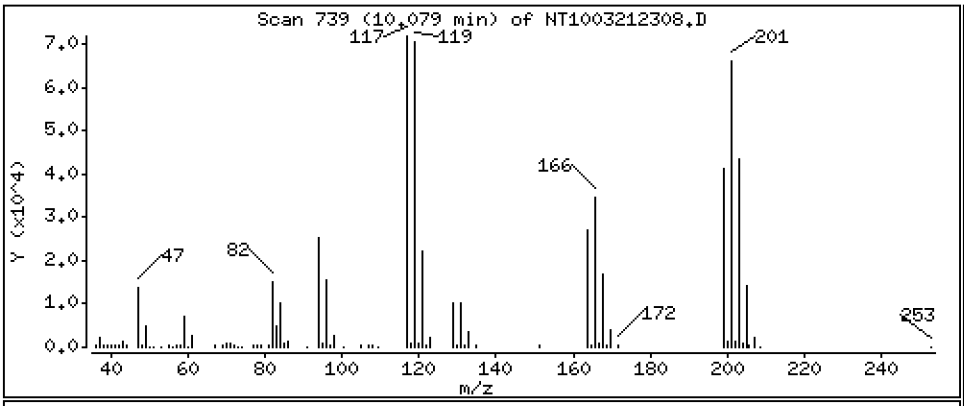
Operator: VTS

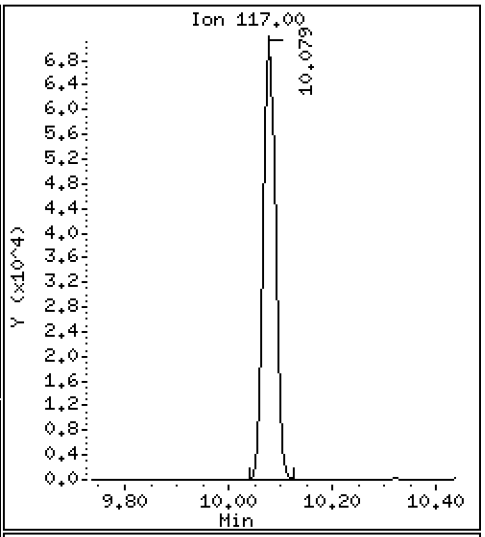
Column phase: ZB-5msi

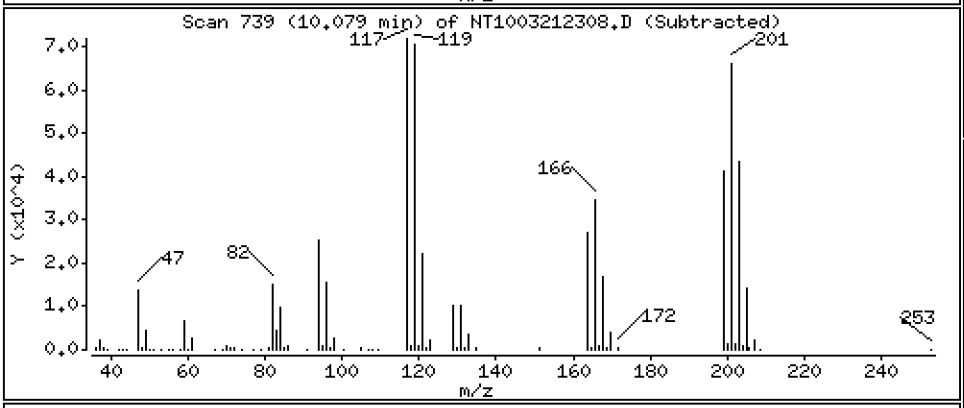
Column diameter: 0.25

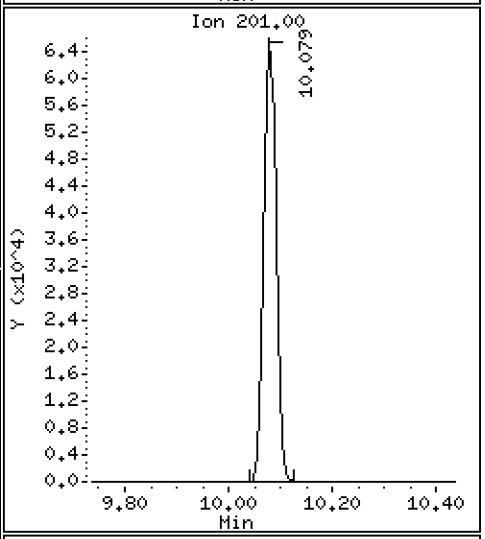
17 Hexachloroethane

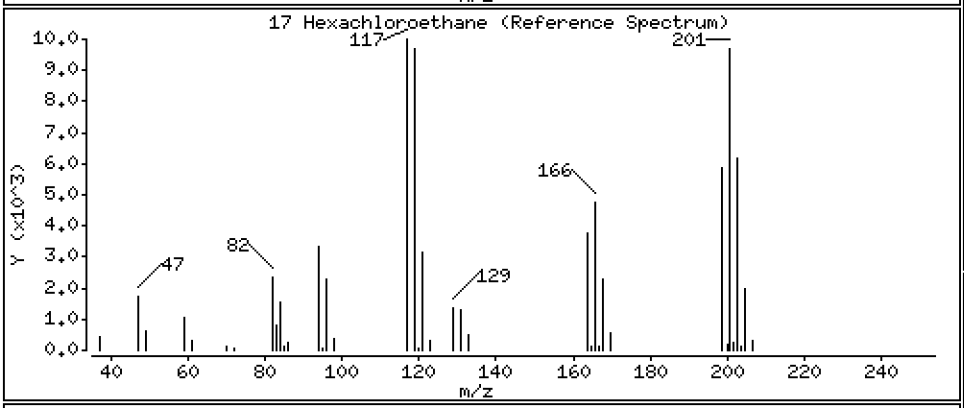
Concentration: 4.124 ug/mL

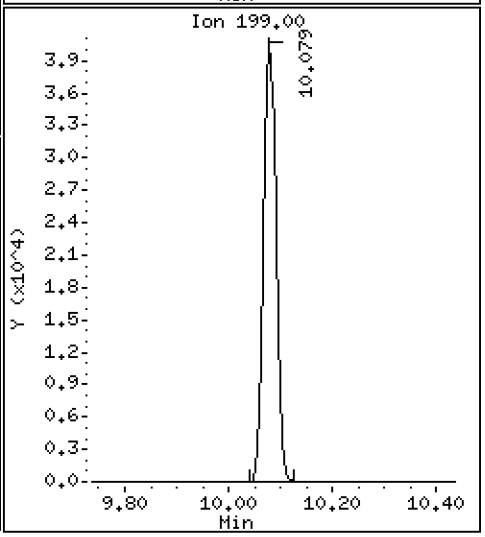


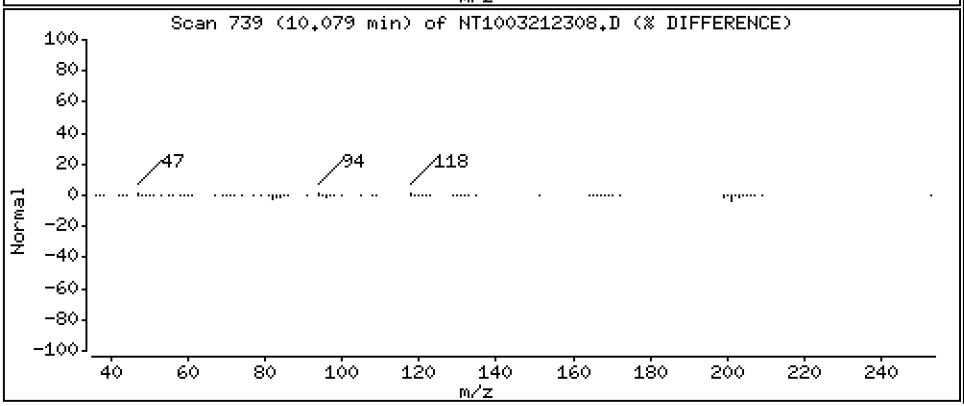












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Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD1

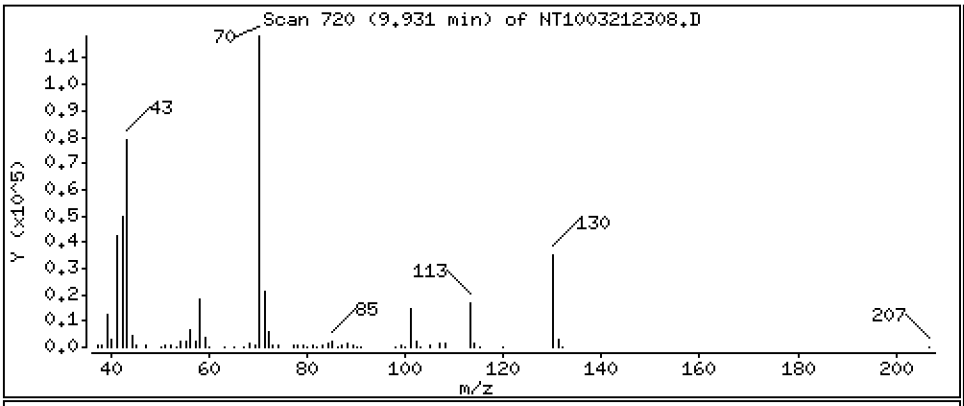
Operator: VTS

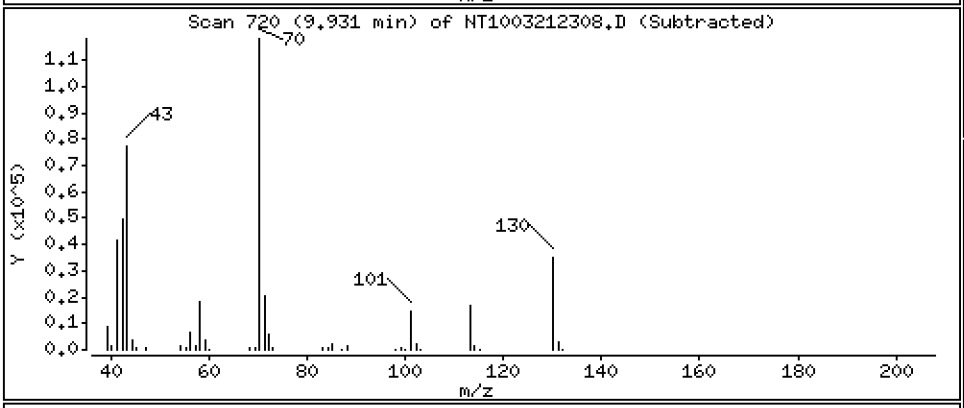
Column phase: ZB-5msi

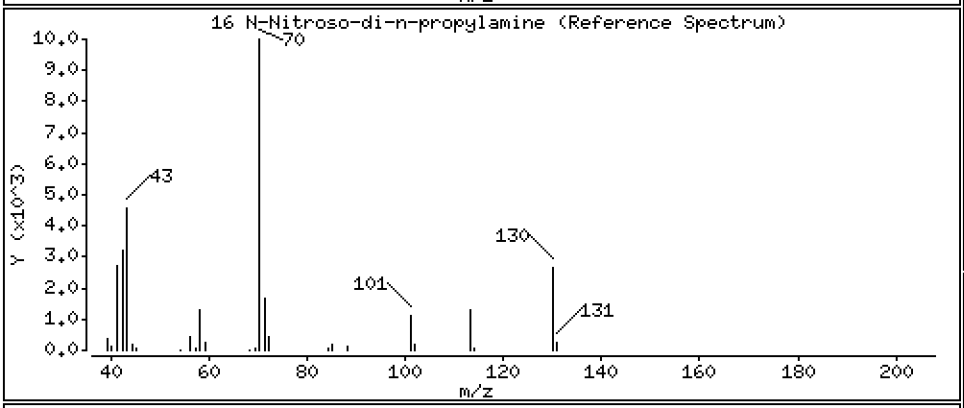
Column diameter: 0.25

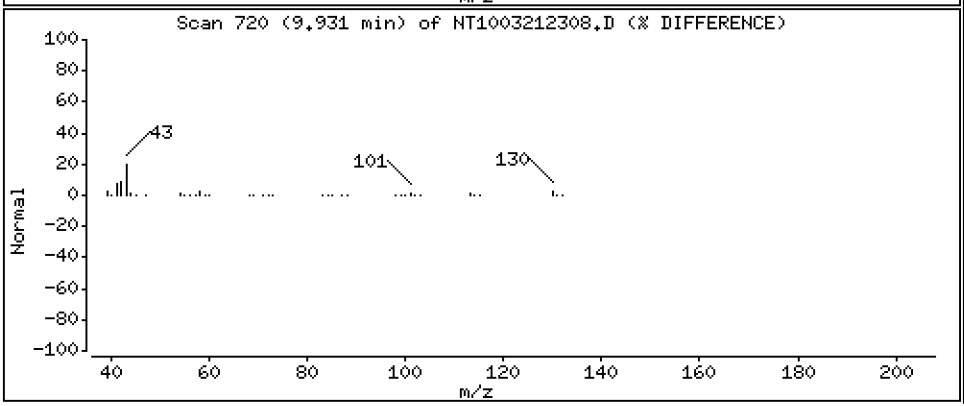
16 N-Nitroso-di-n-propylamine

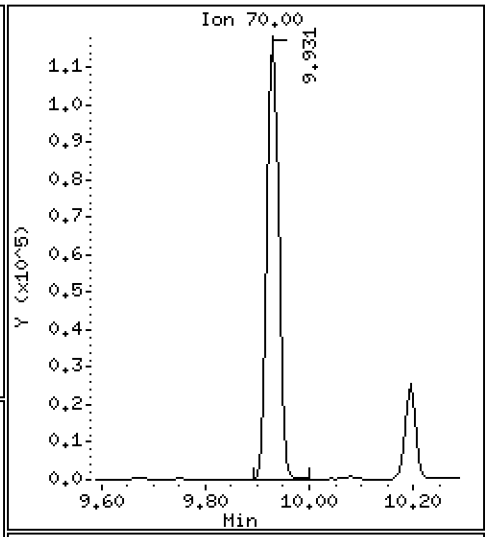
Concentration: 4.112 ug/mL

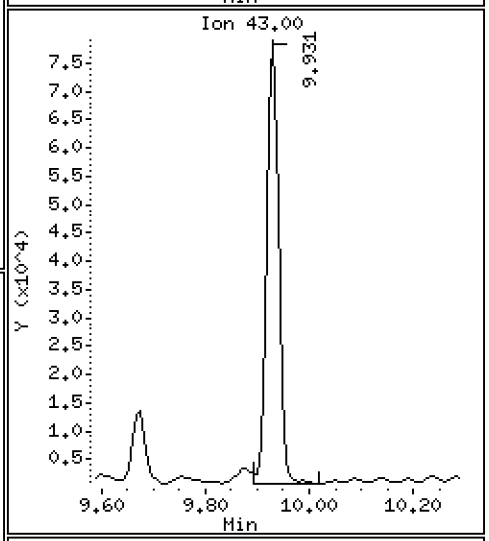


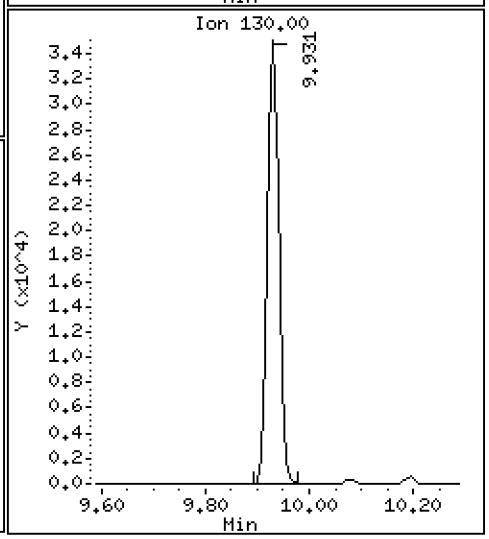












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Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD1

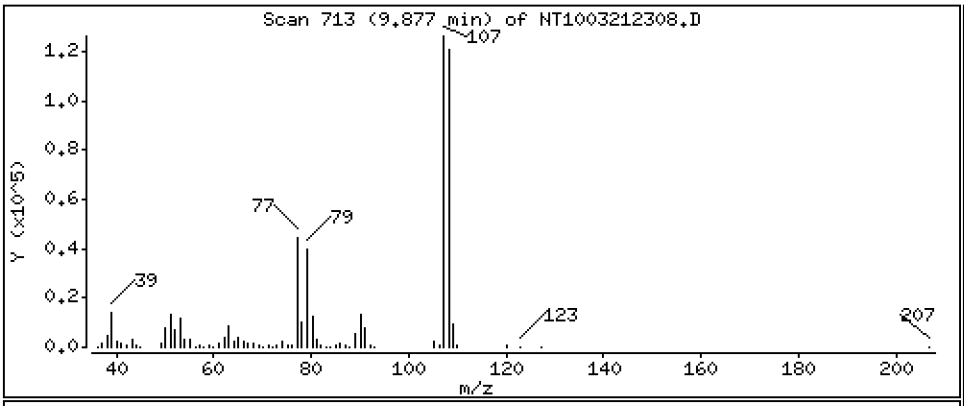
Operator: VTS

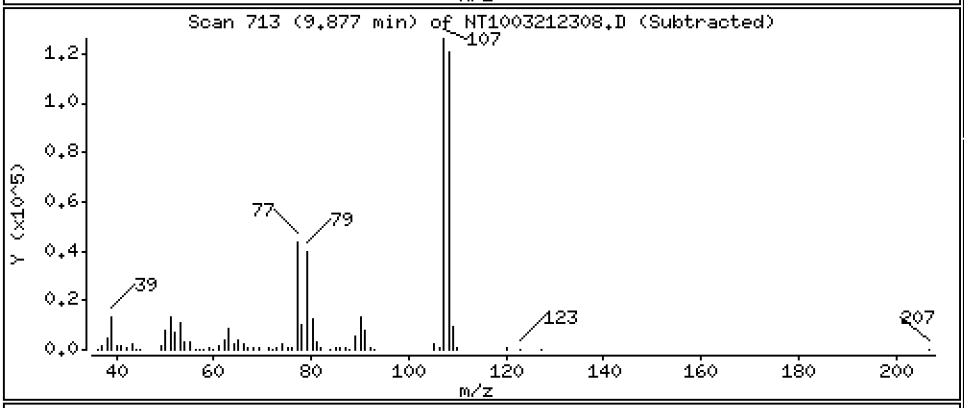
Column phase: ZB-5msi

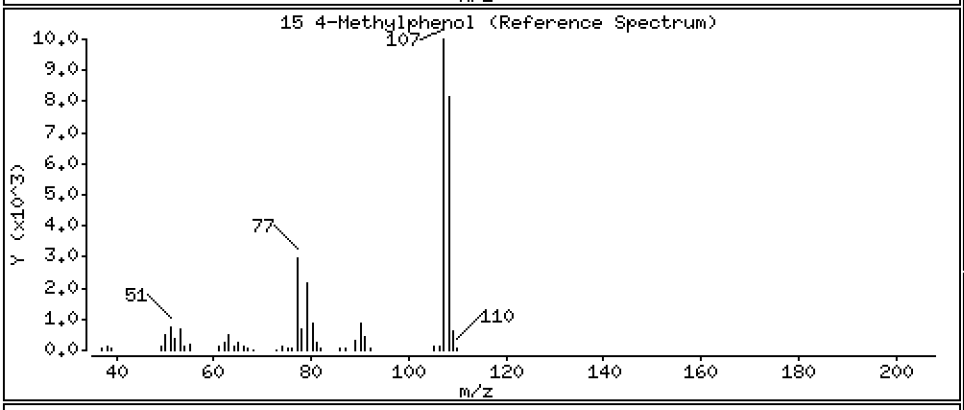
Column diameter: 0.25

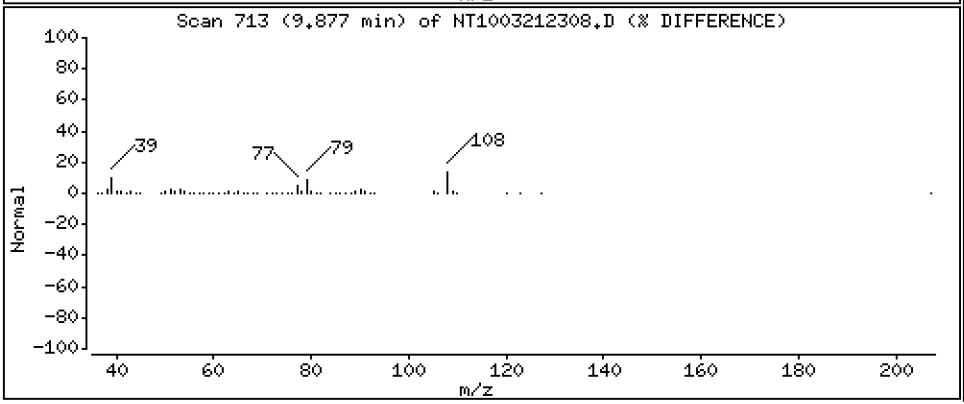
15 4-Methylphenol

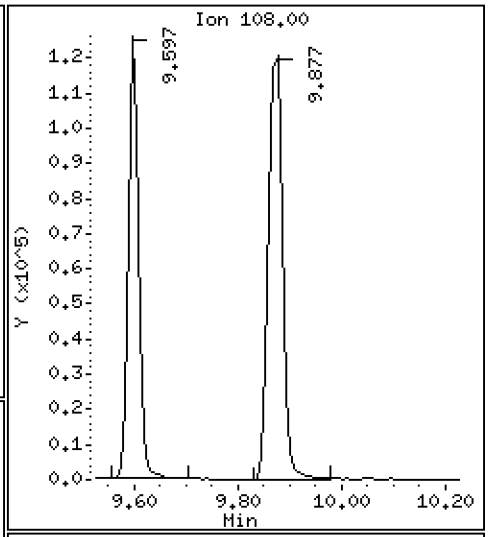
Concentration: 3.841 ug/mL

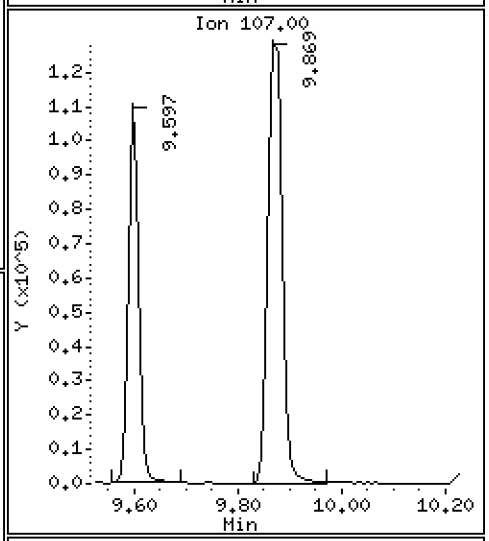


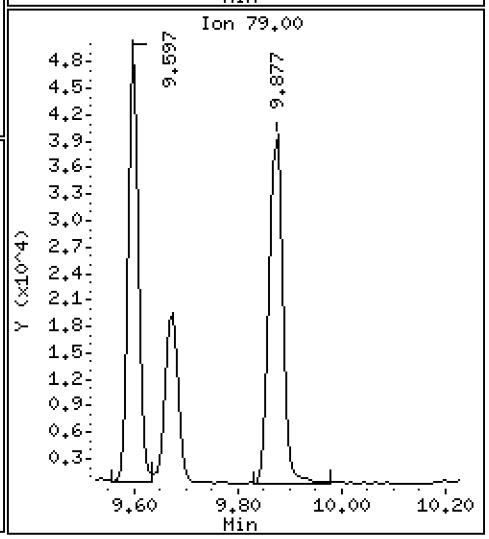












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Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD1

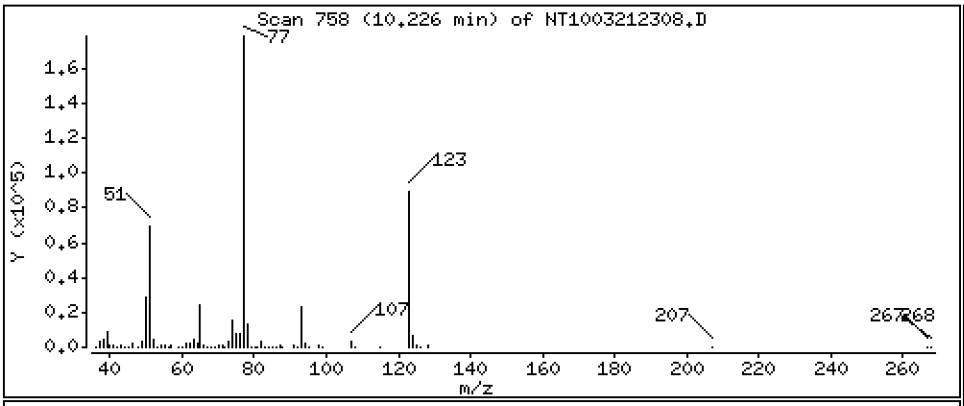
Operator: VTS

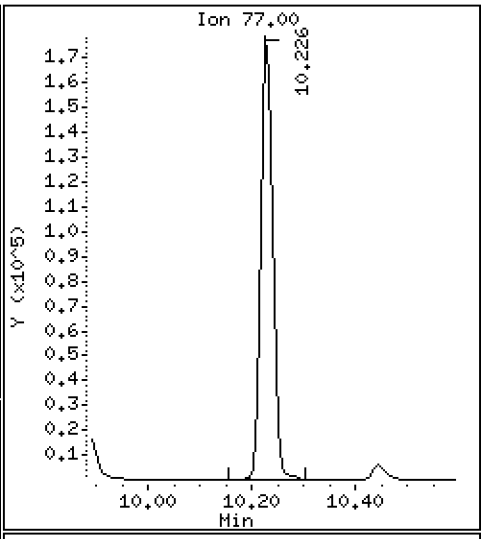
Column phase: ZB-5msi

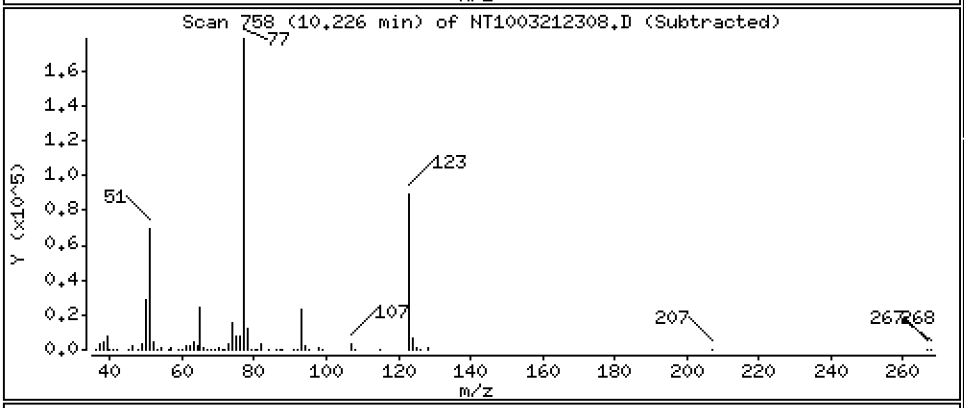
Column diameter: 0.25

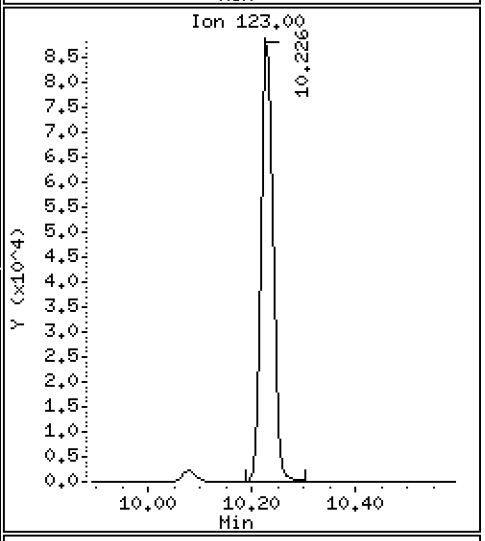
19 Nitrobenzene

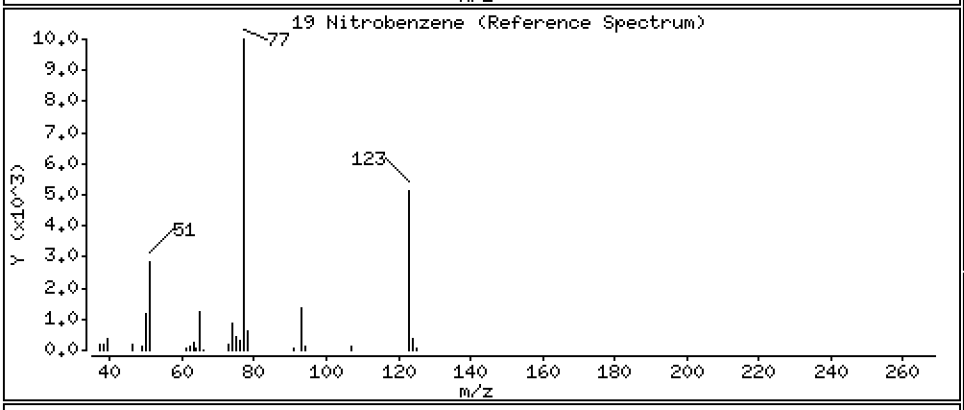
Concentration: 4.131 ug/mL

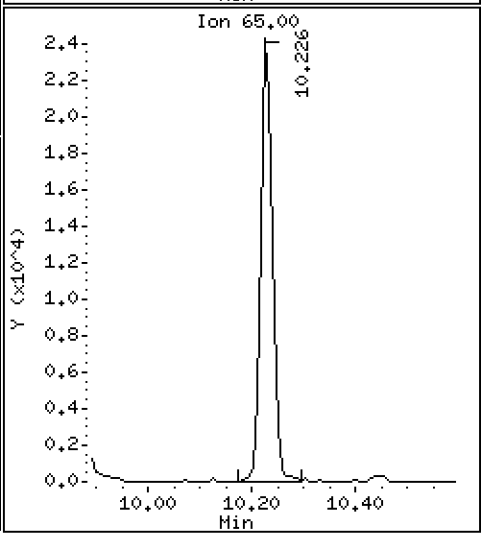


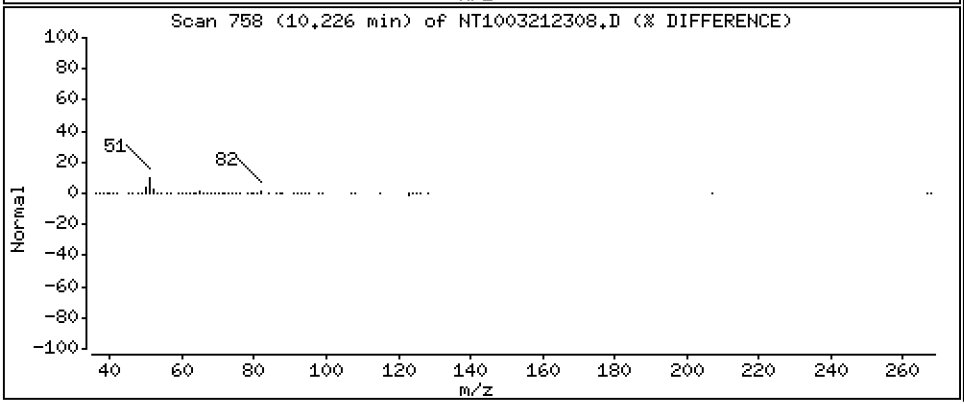












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Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD1

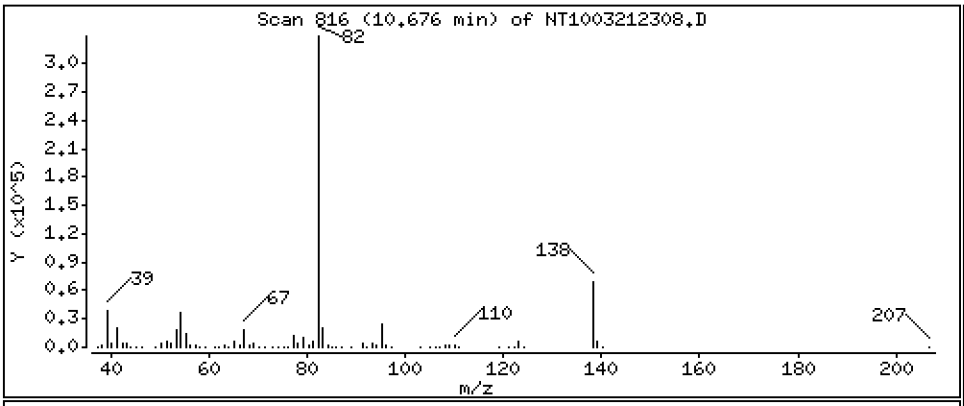
Operator: VTS

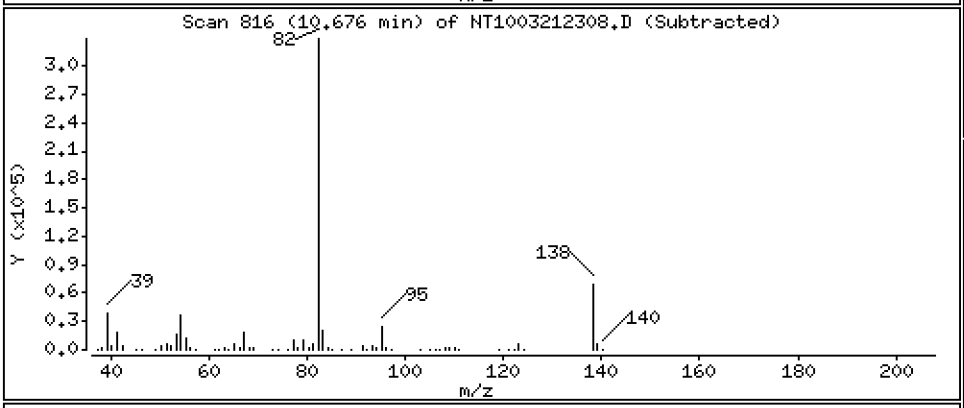
Column phase: ZB-5msi

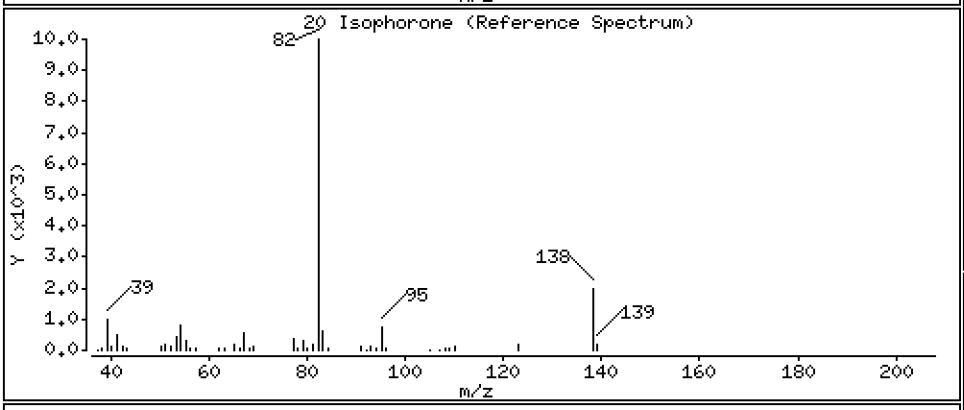
Column diameter: 0.25

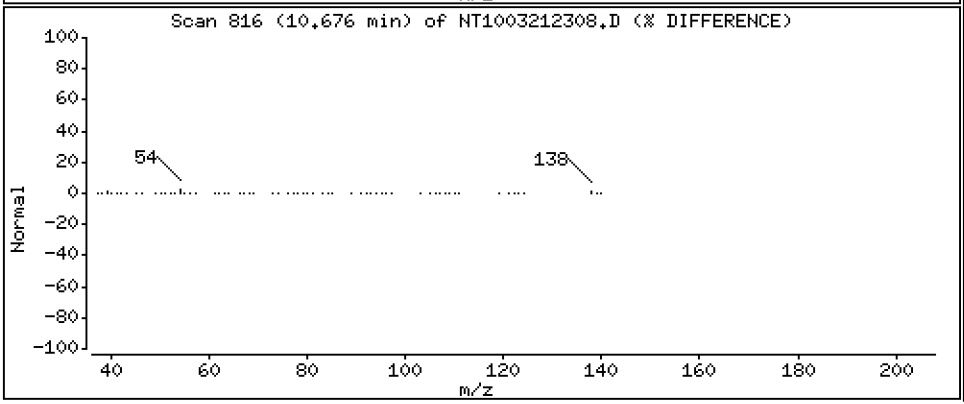
20 Isophorone

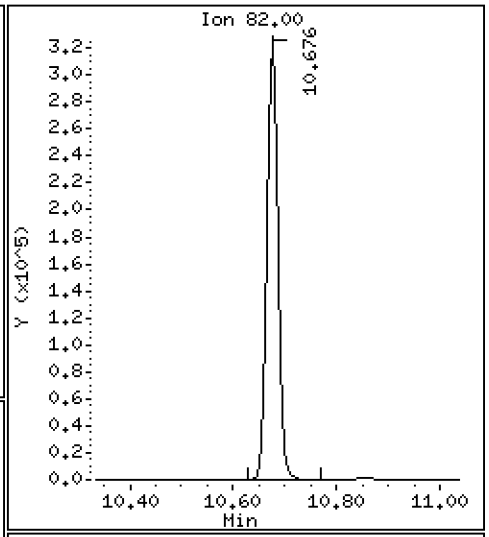
Concentration: 5.980 ug/mL

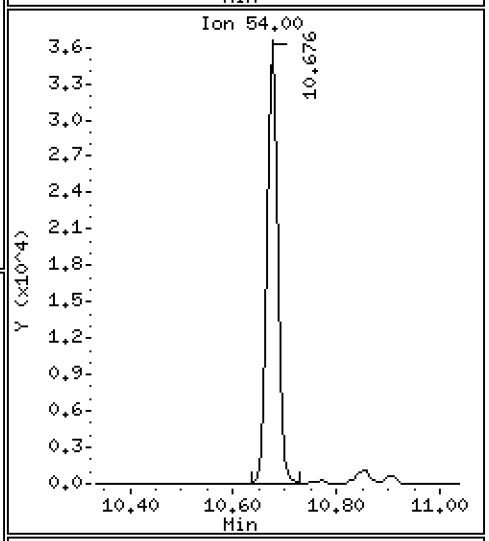


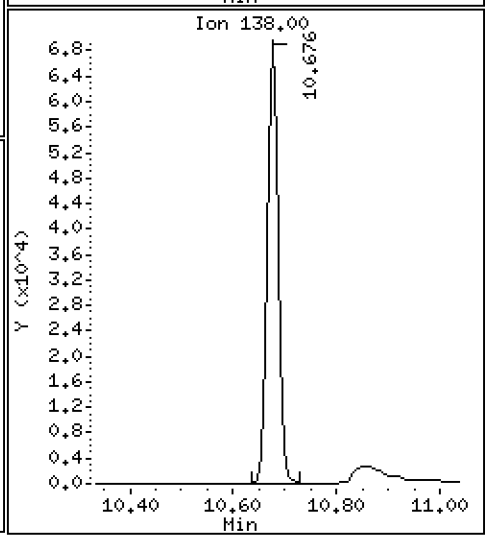












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Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD1

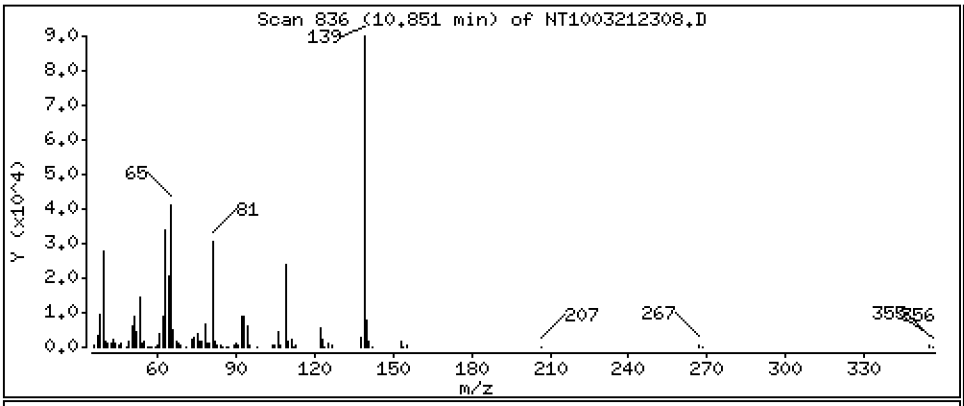
Operator: VTS

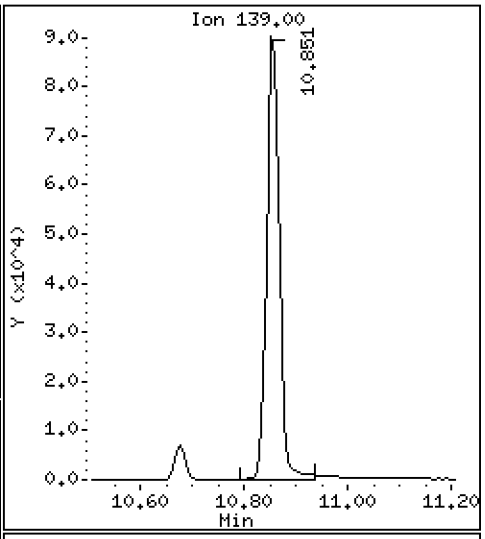
Column phase: ZB-5msi

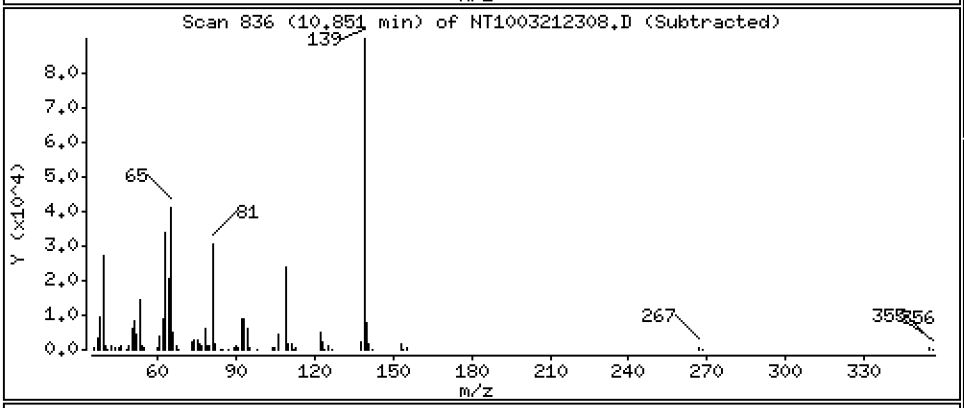
Column diameter: 0.25

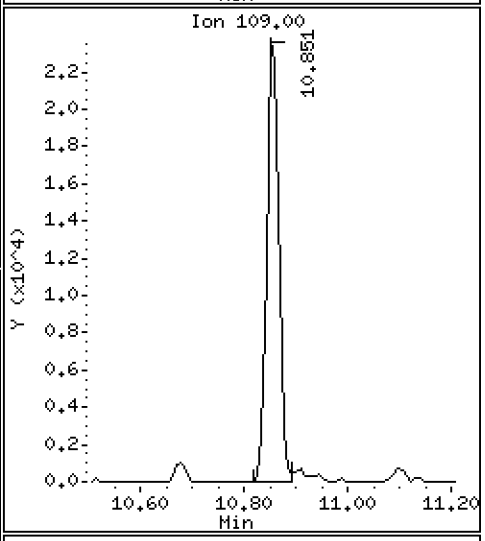
21 2-Nitrophenol

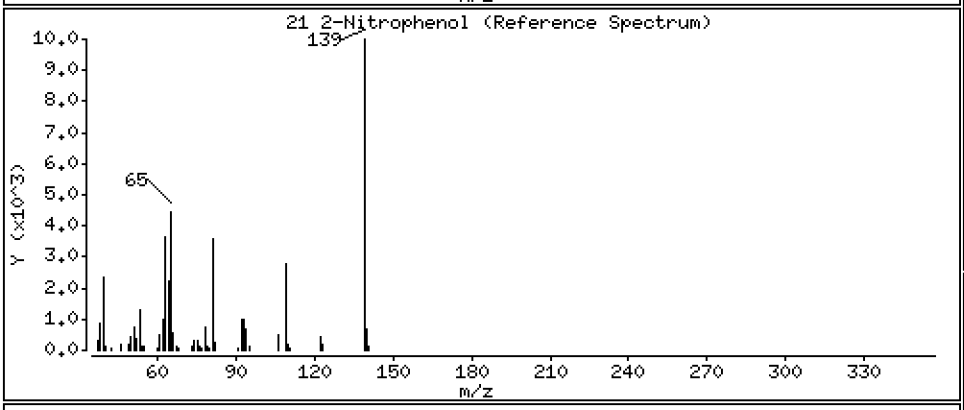
Concentration: 5.299 ug/mL

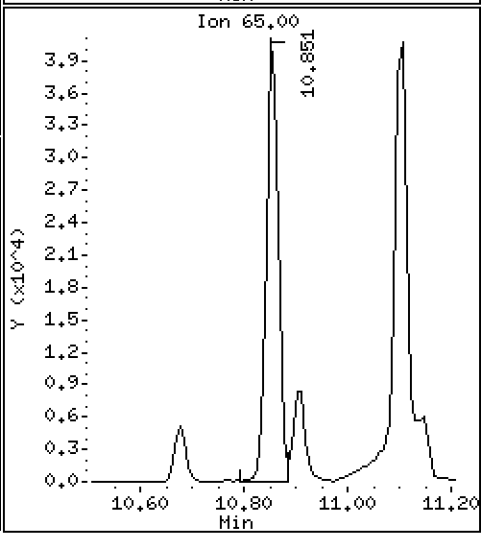


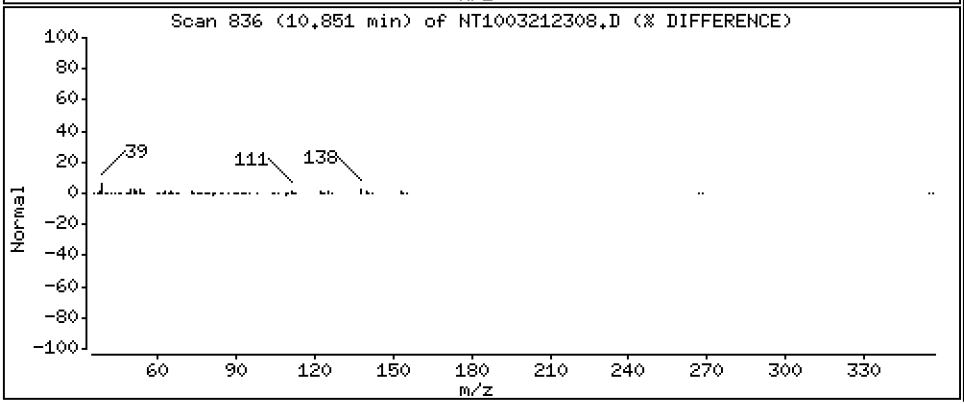












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Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD1

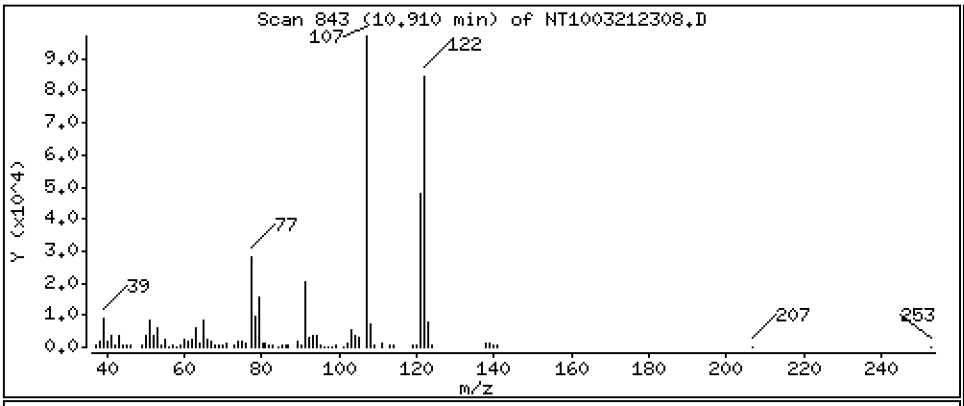
Operator: VTS

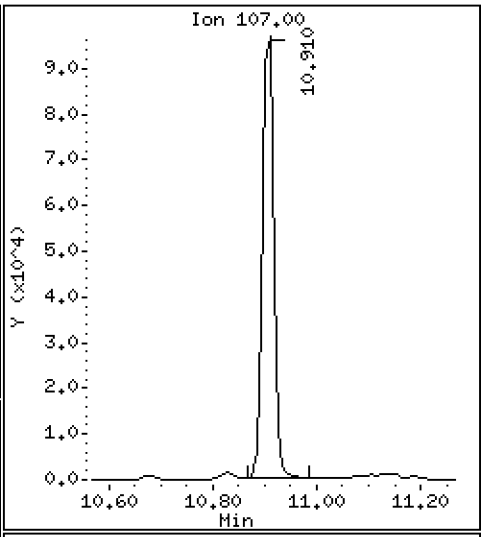
Column phase: ZB-5msi

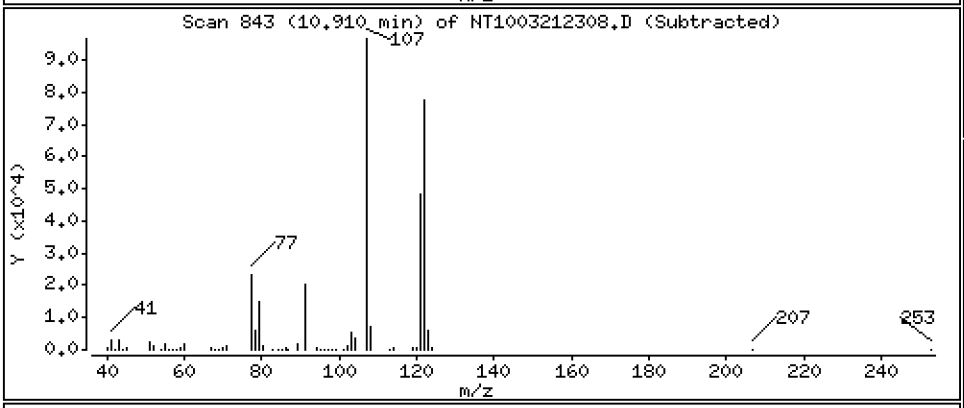
Column diameter: 0.25

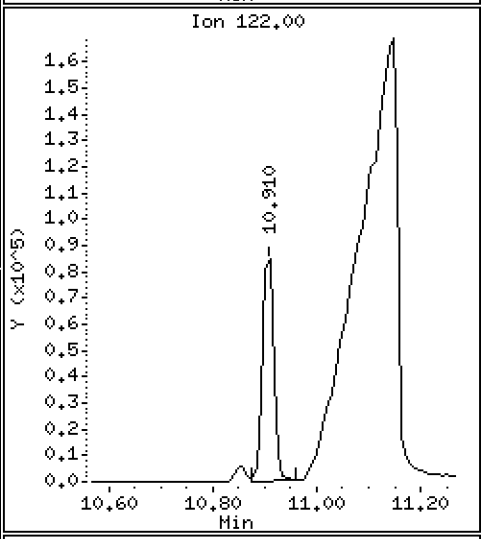
22 2,4-Dimethylphenol

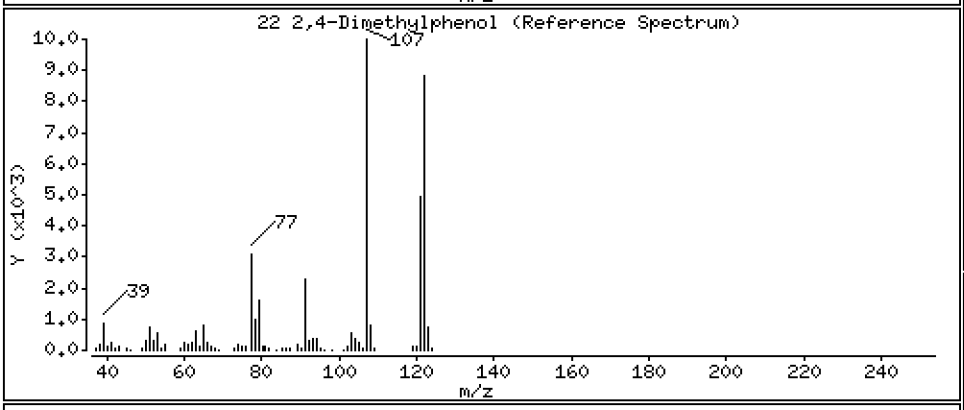
Concentration: 2.425 ug/mL

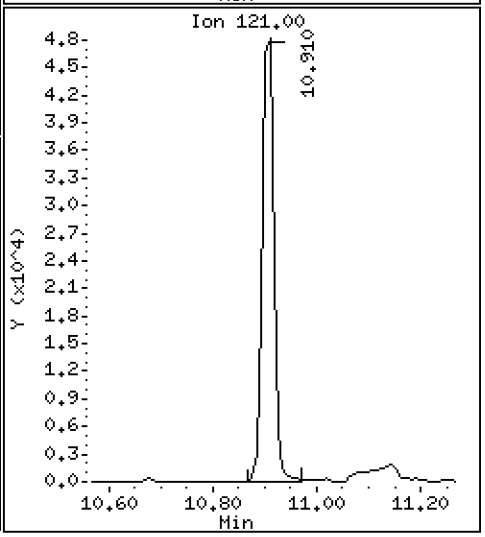


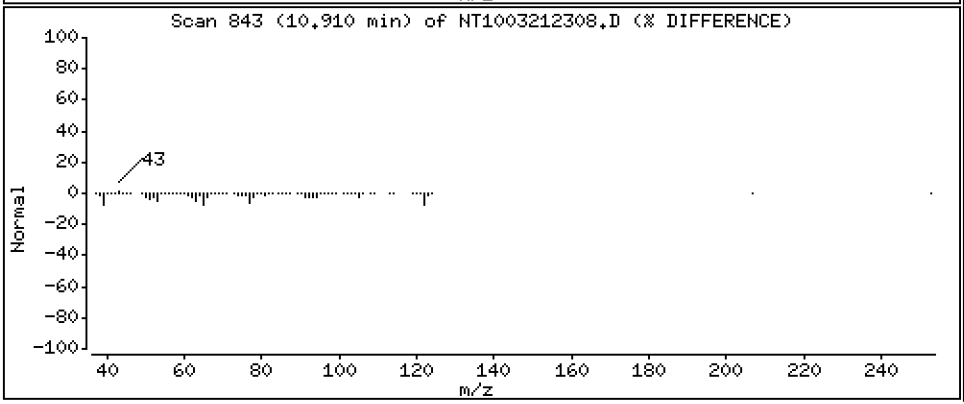












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Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD1

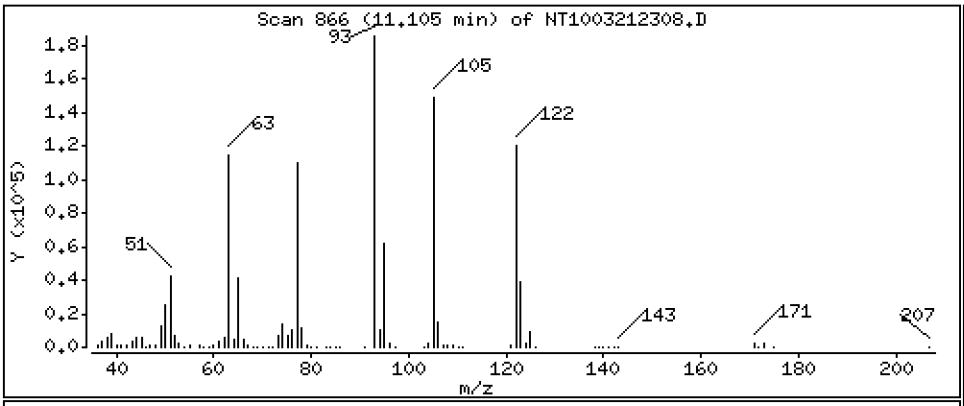
Operator: VTS

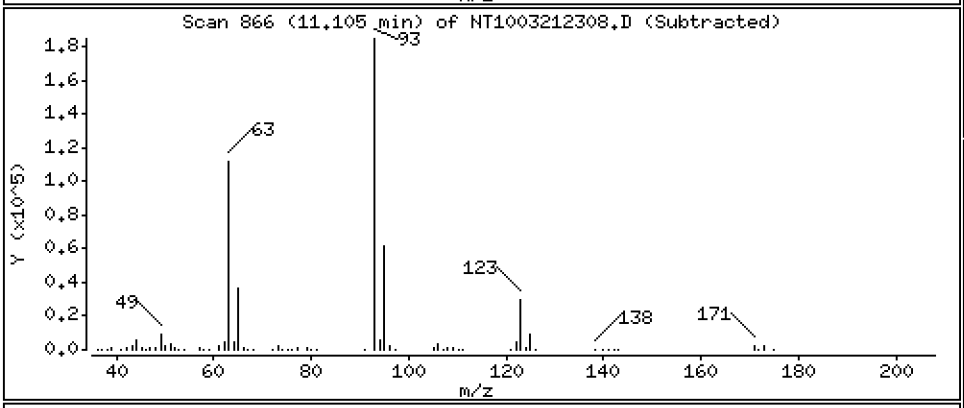
Column phase: ZB-5msi

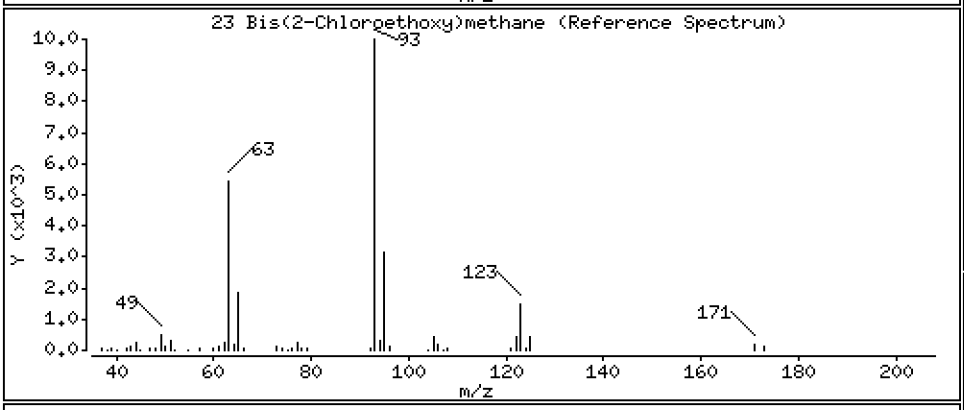
Column diameter: 0.25

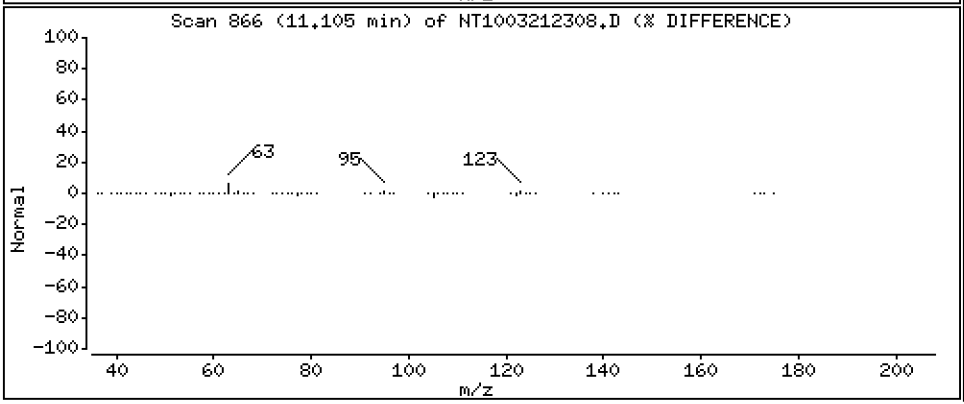
23 Bis(2-Chloroethoxy)methane

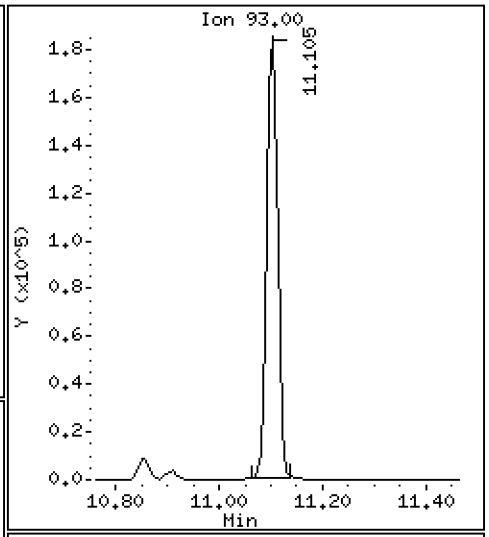
Concentration: 4.873 ug/mL

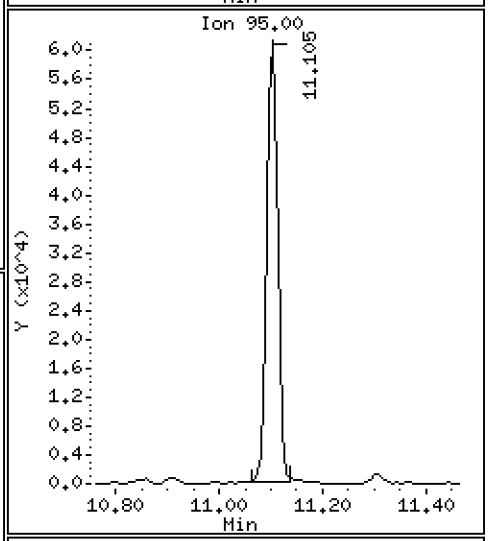


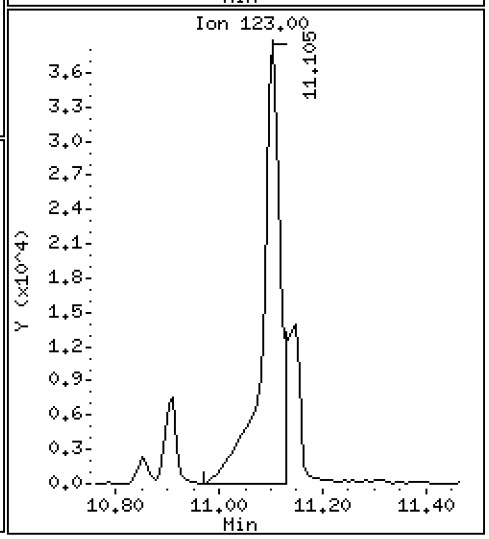












Date : 21-MAR-2023 21:39

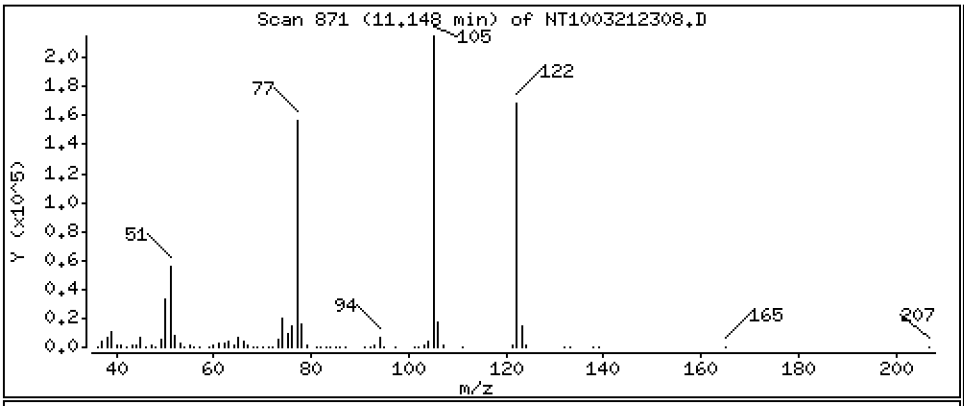
Client ID: Instrument: nt10.i

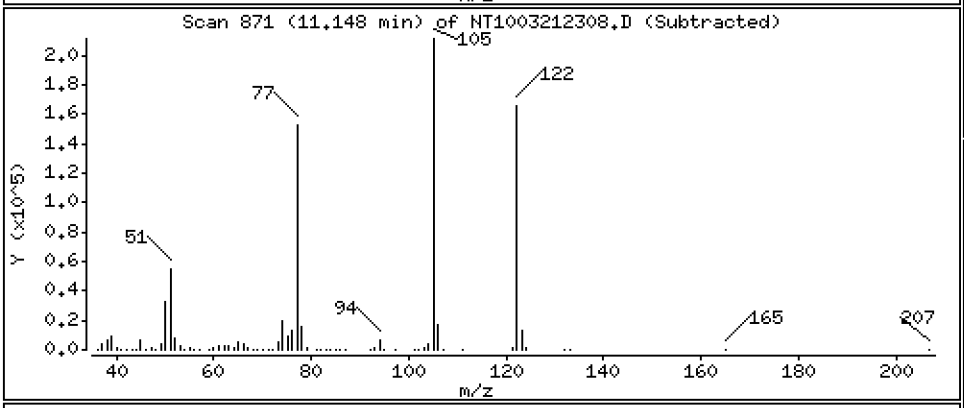
Sample Info: BLC0109-BSD1

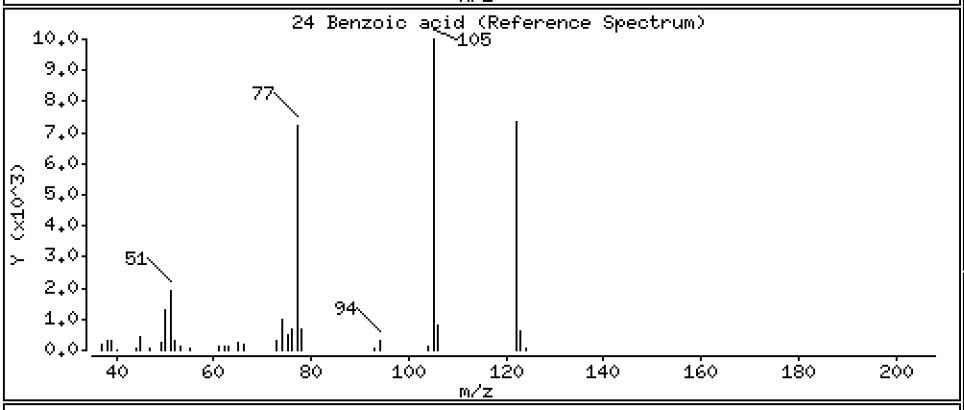
Operator: VTS

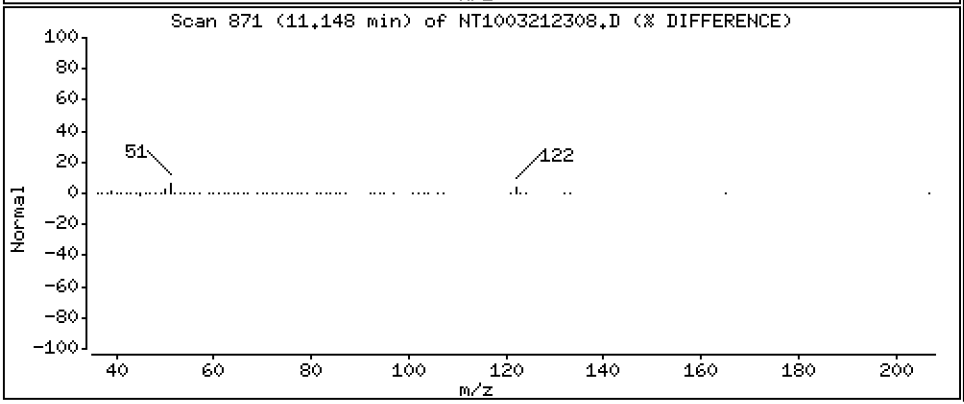
Column phase: ZB-5msi Column diameter: 0.25

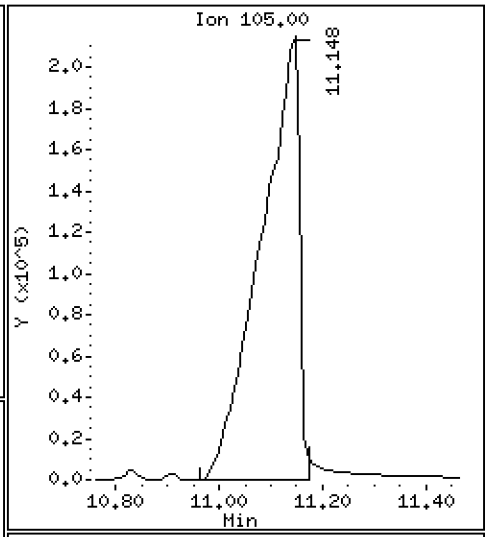
24 Benzoic acid Concentration: 30.61 ug/mL

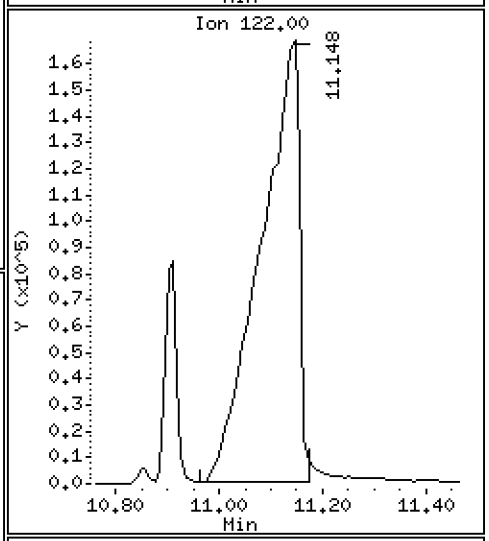


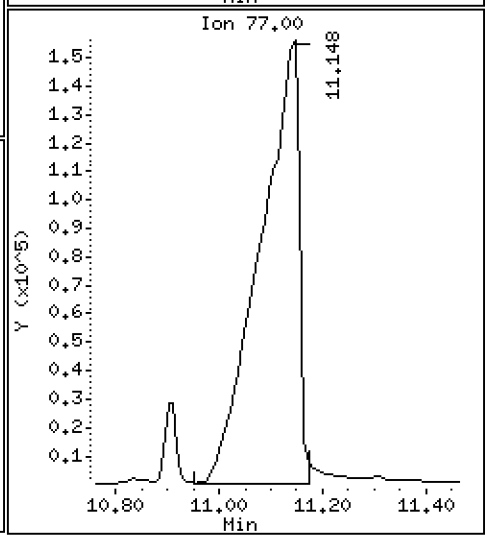












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212308.D

Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD1

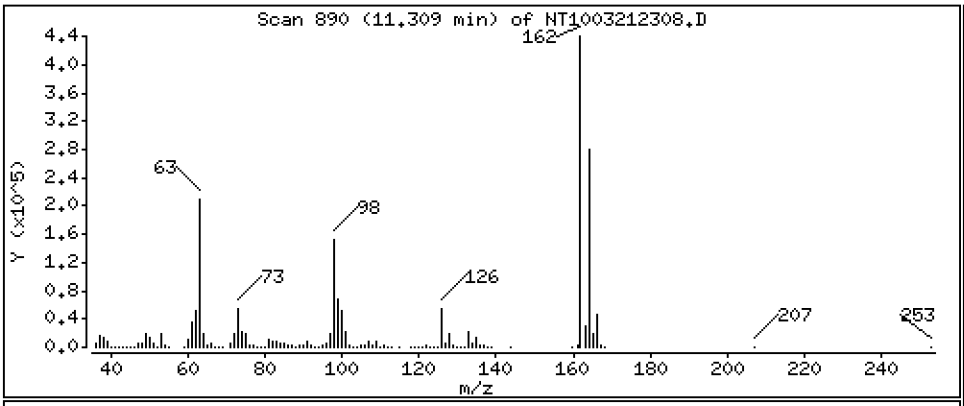
Operator: VTS

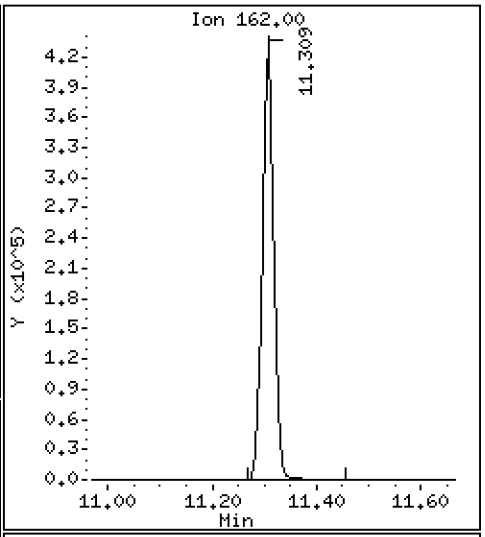
Column phase: ZB-5msi

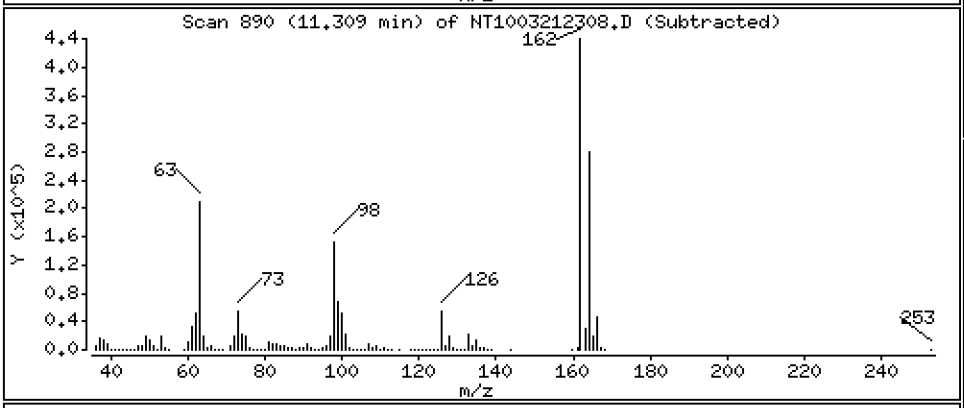
Column diameter: 0.25

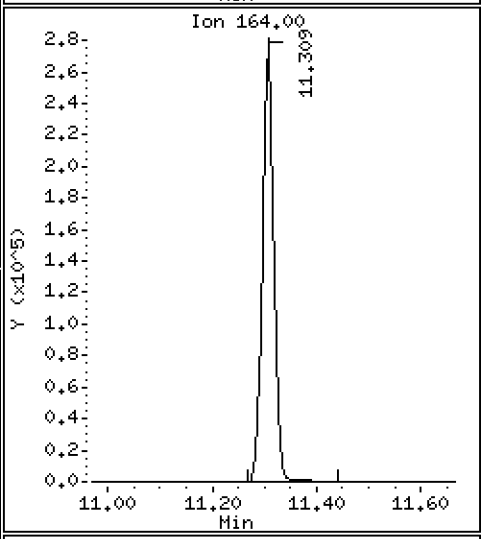
25 2,4-Dichlorophenol

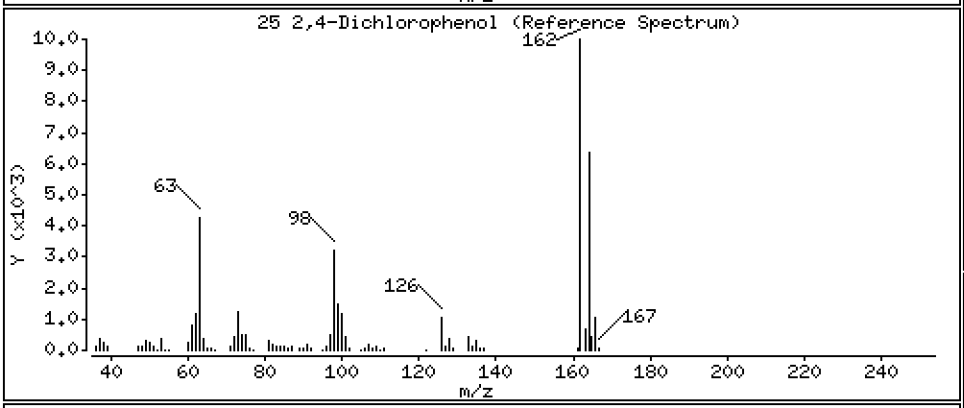
Concentration: 15.05 ug/mL

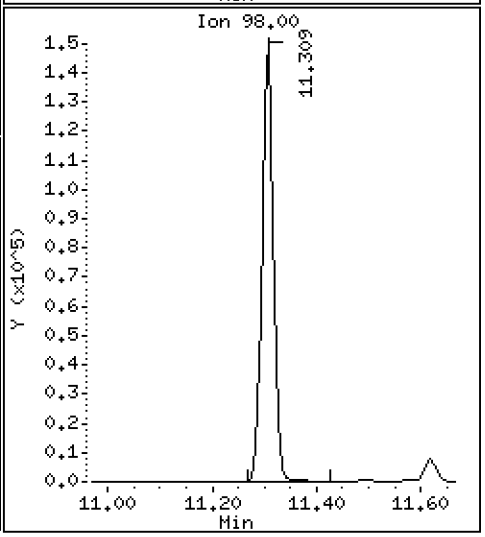


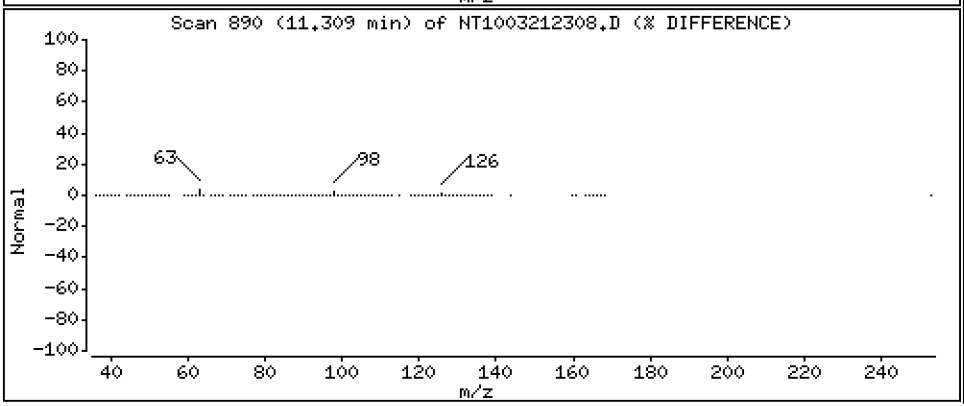












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212308.D

Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD1

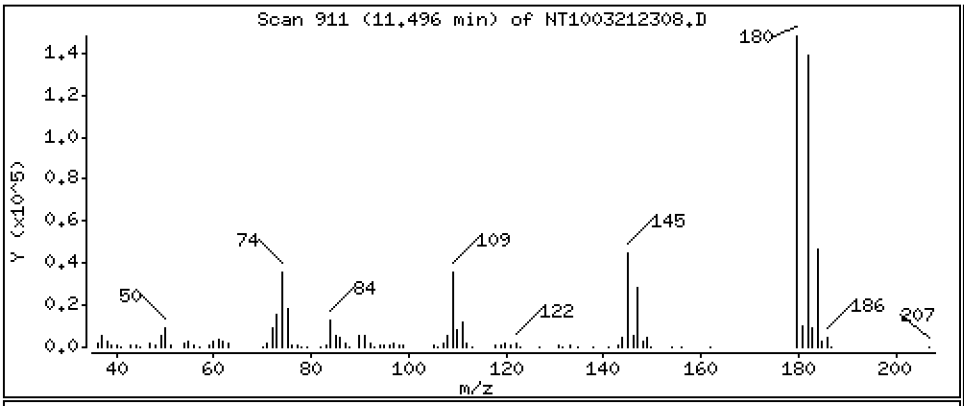
Operator: VTS

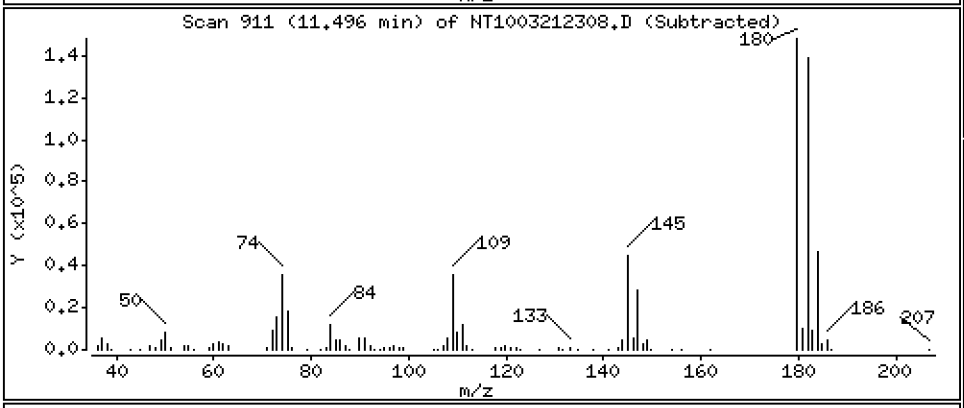
Column phase: ZB-5msi

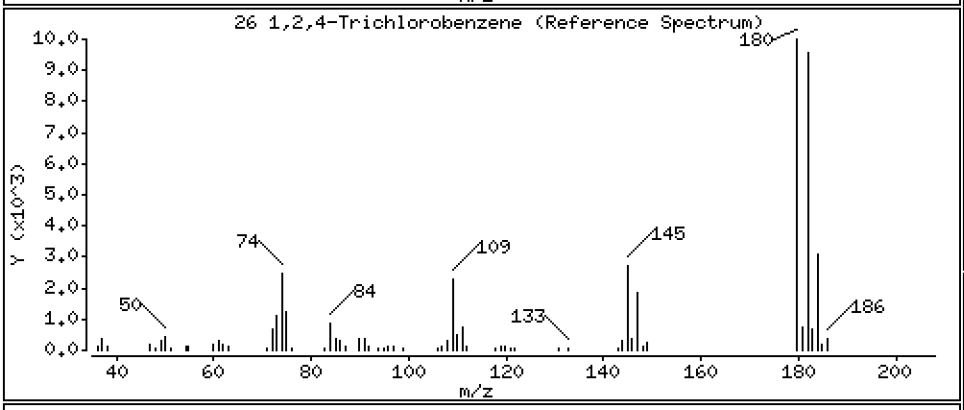
Column diameter: 0.25

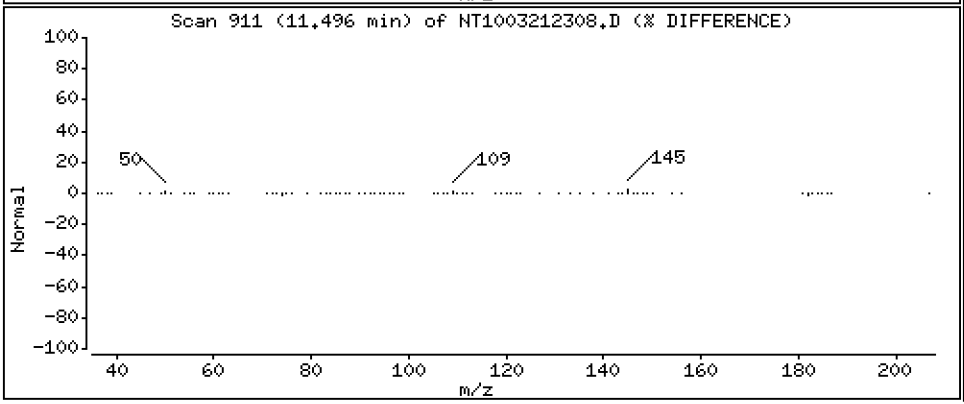
26 1,2,4-Trichlorobenzene

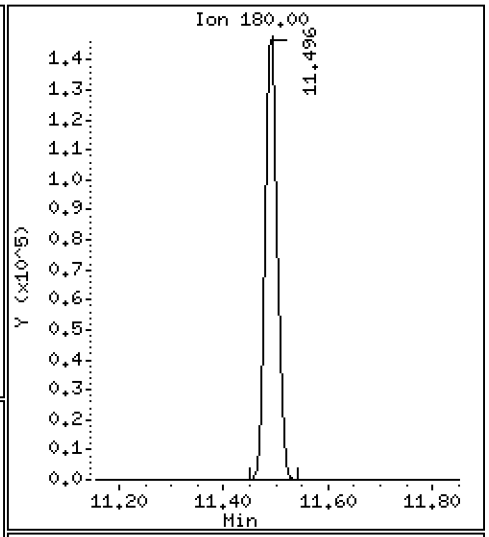
Concentration: 4.198 ug/mL

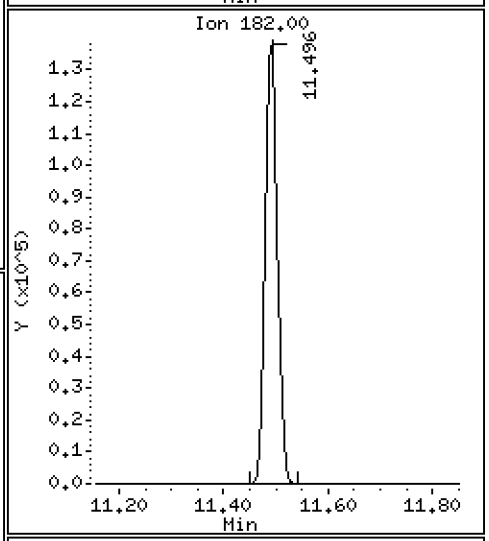


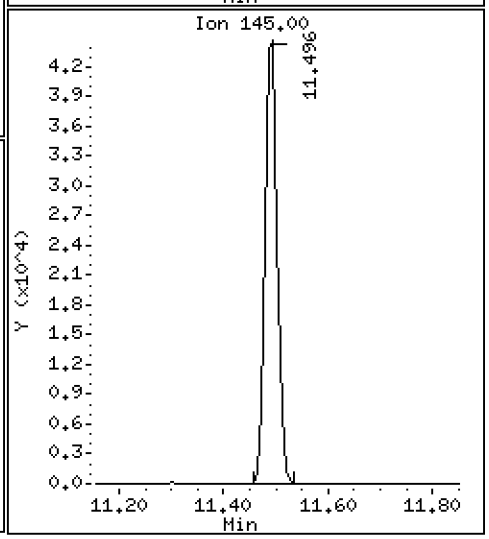












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Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD1

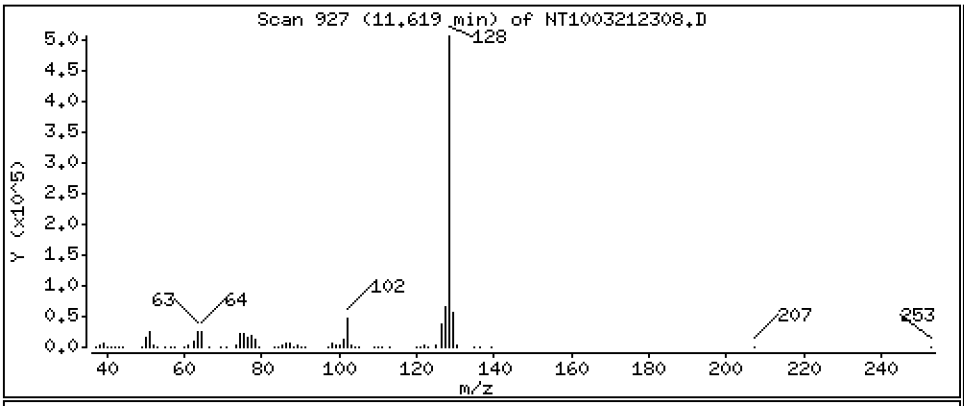
Operator: VTS

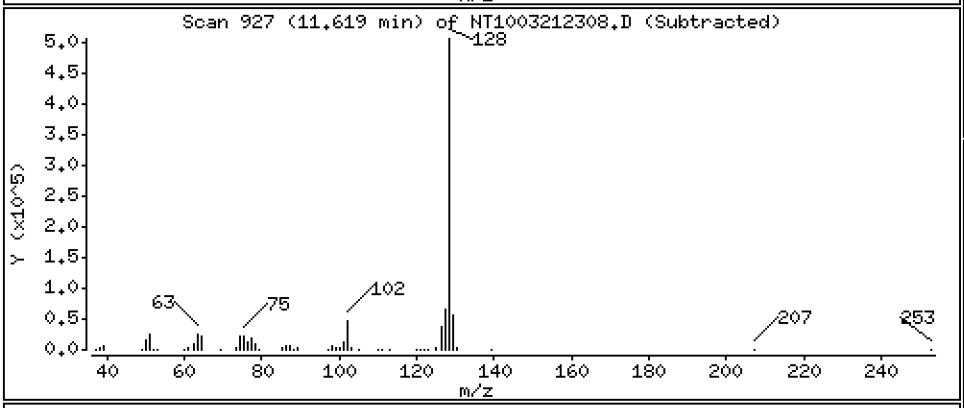
Column phase: ZB-5msi

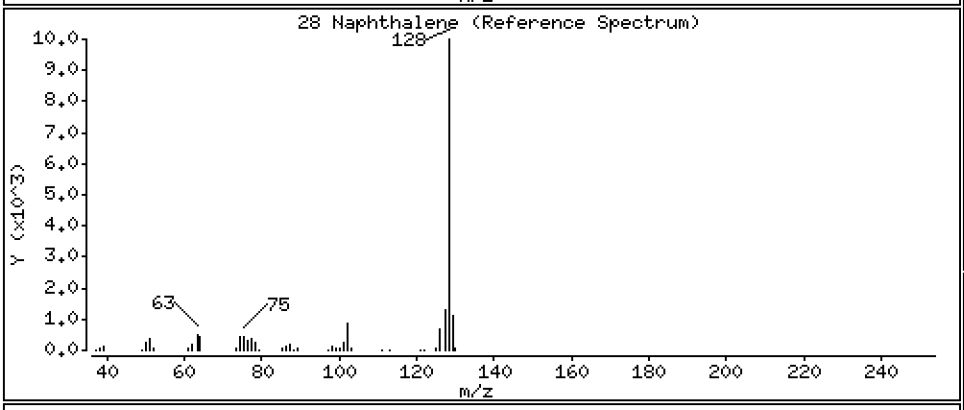
Column diameter: 0.25

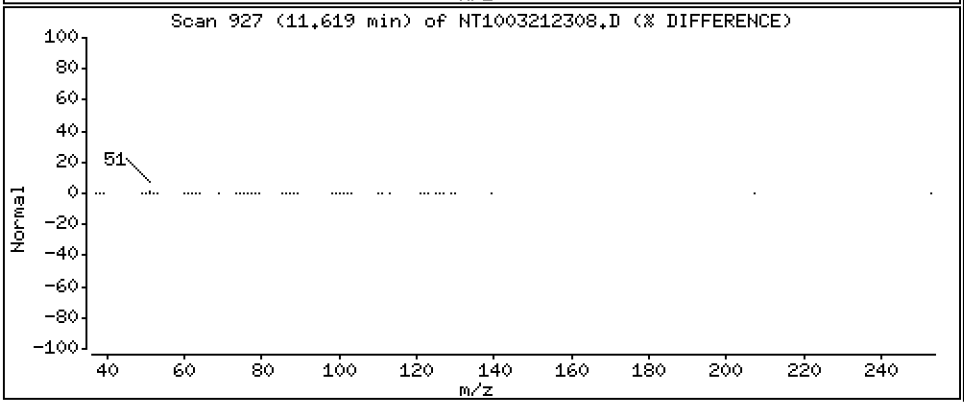
28 Naphthalene

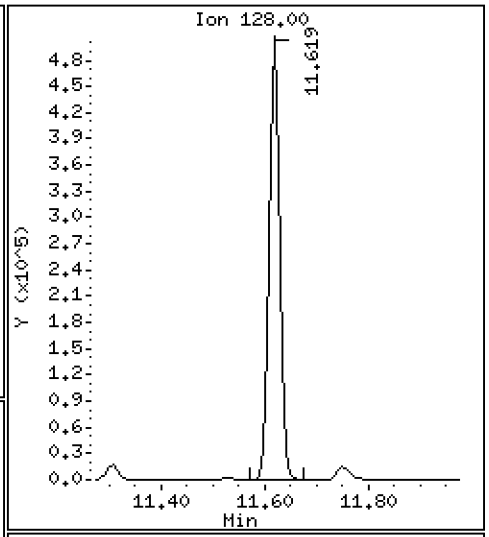
Concentration: 4.215 ug/mL

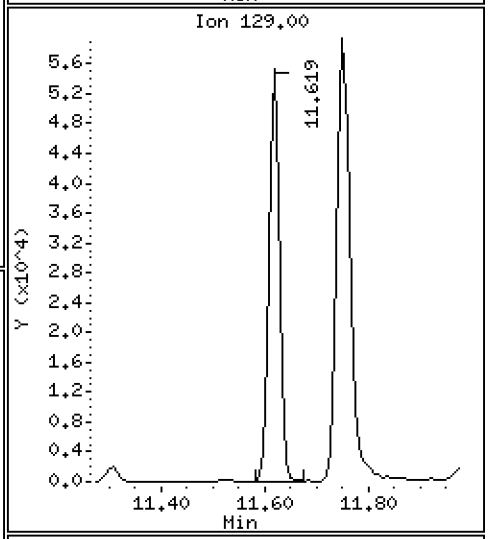


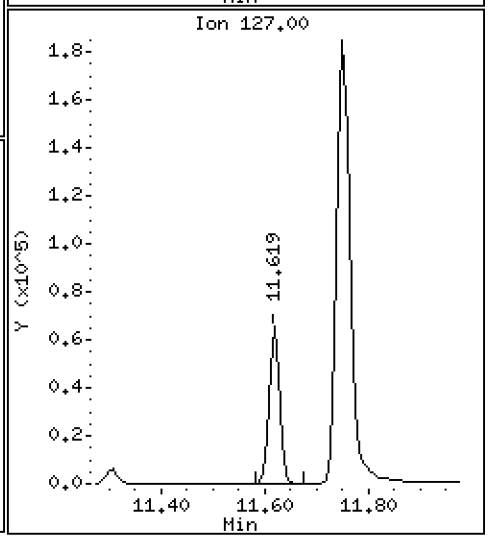












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212308.D

Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD1

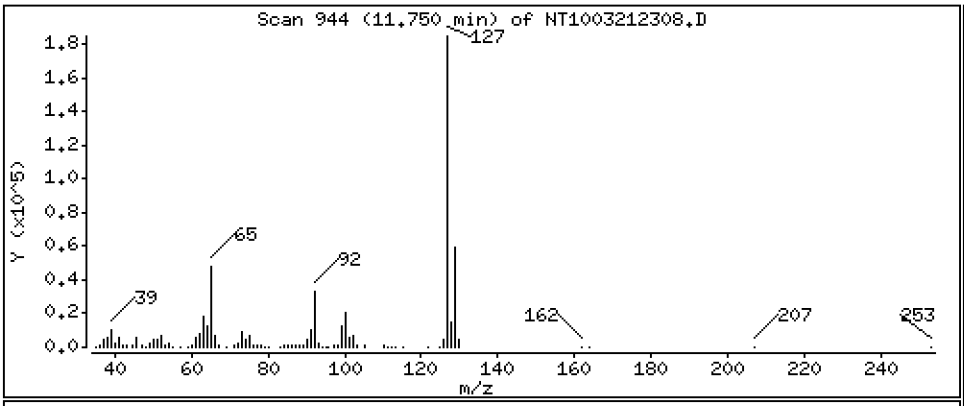
Operator: VTS

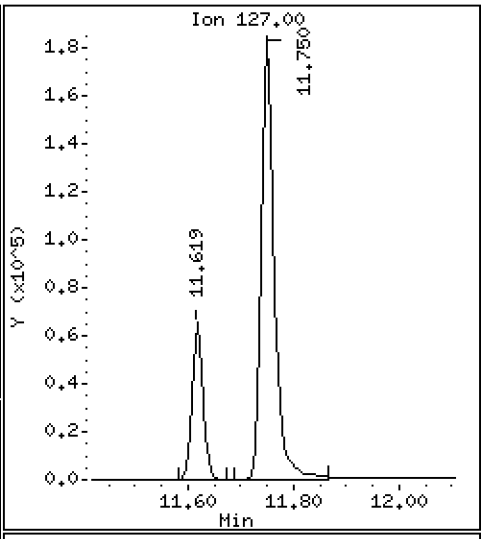
Column phase: ZB-5msi

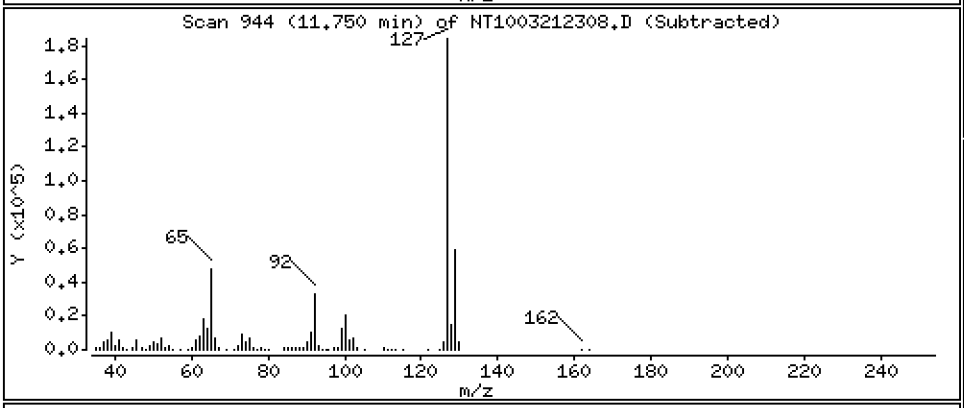
Column diameter: 0.25

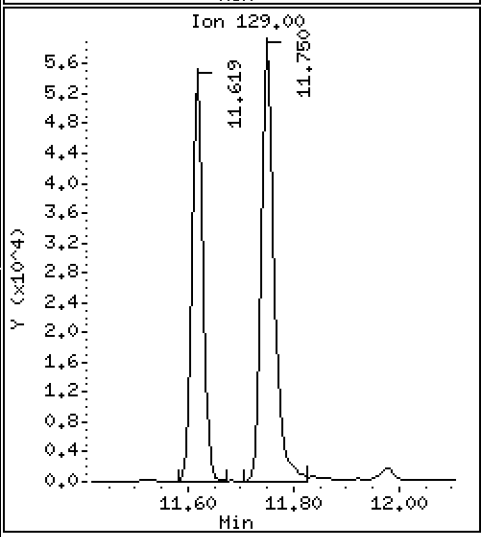
29 4-Chloroaniline

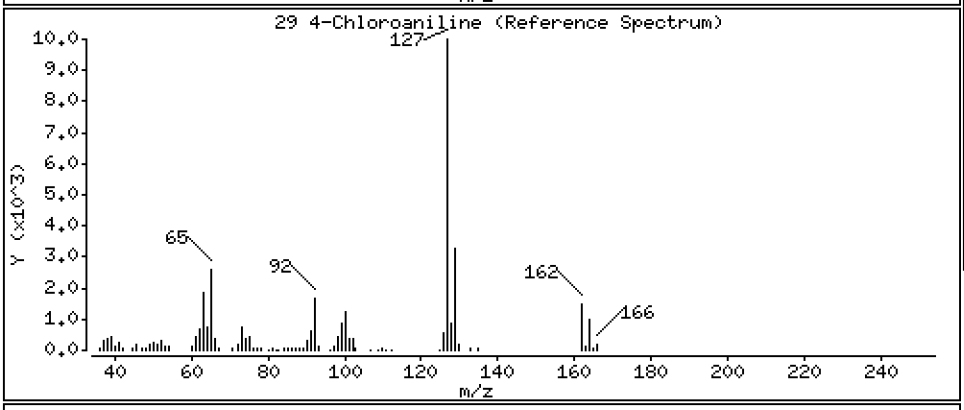
Concentration: 4.645 ug/mL

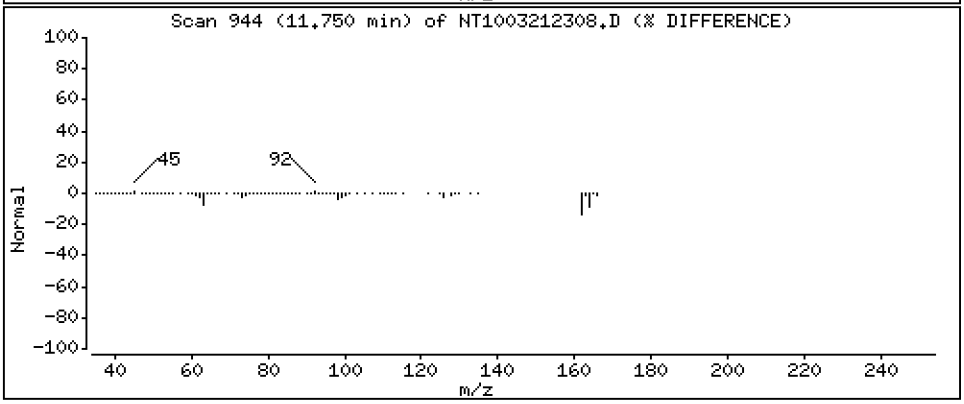












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212308.D

Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD1

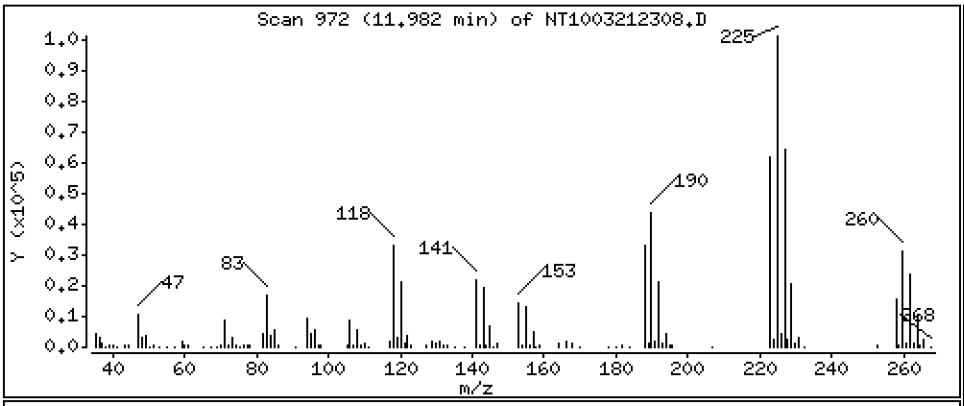
Operator: VTS

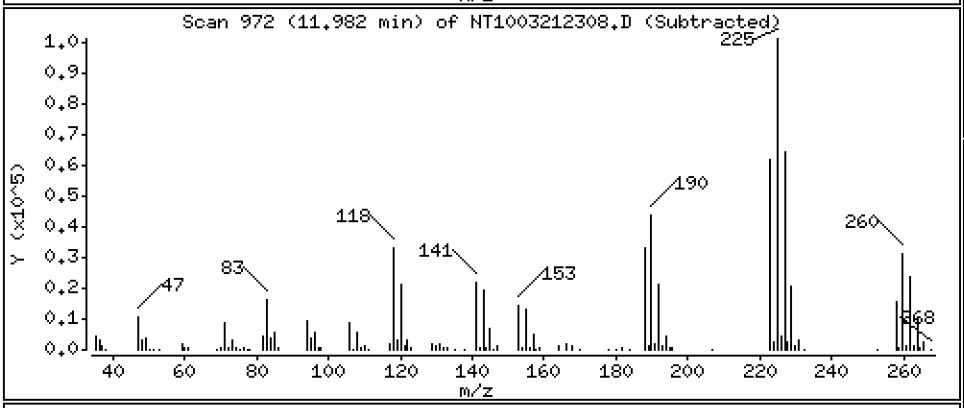
Column phase: ZB-5msi

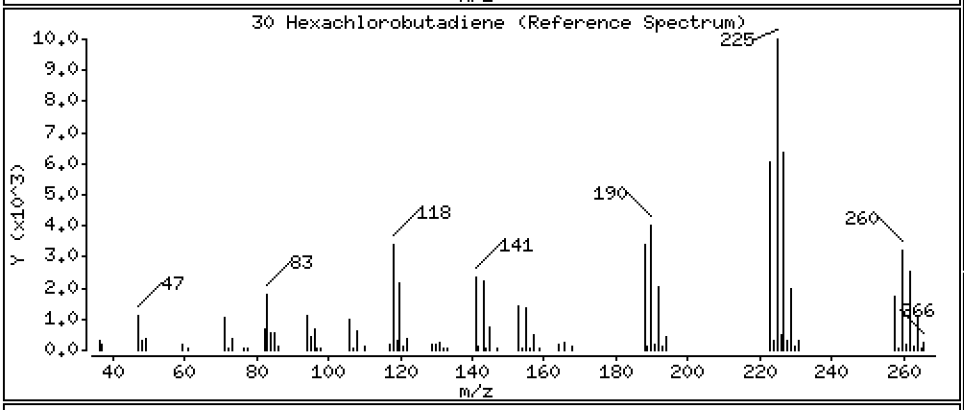
Column diameter: 0.25

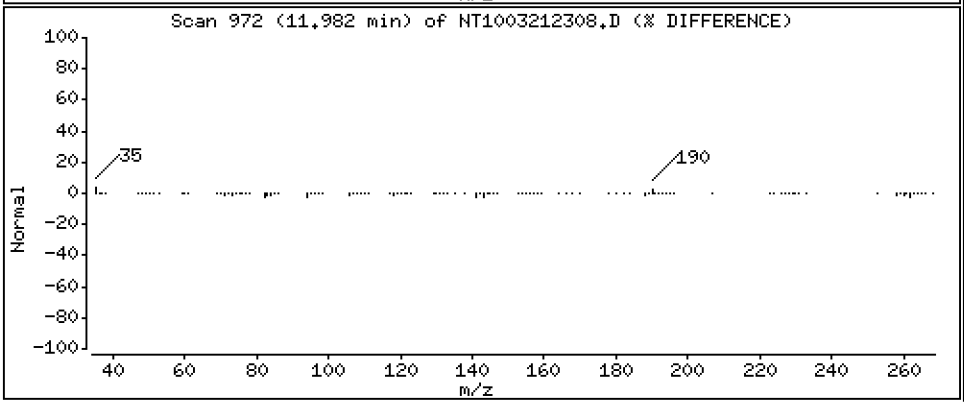
30 Hexachlorobutadiene

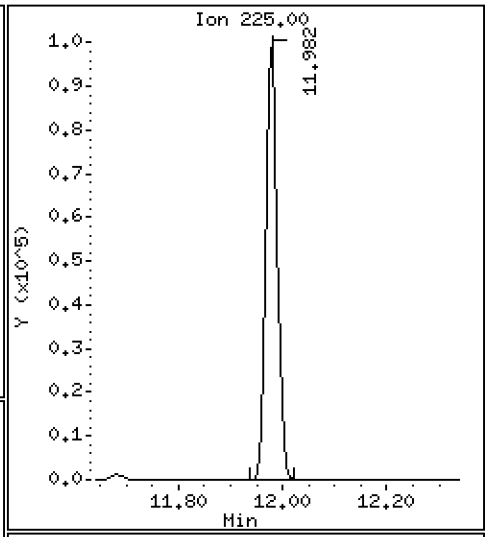
Concentration: 4.540 ug/mL

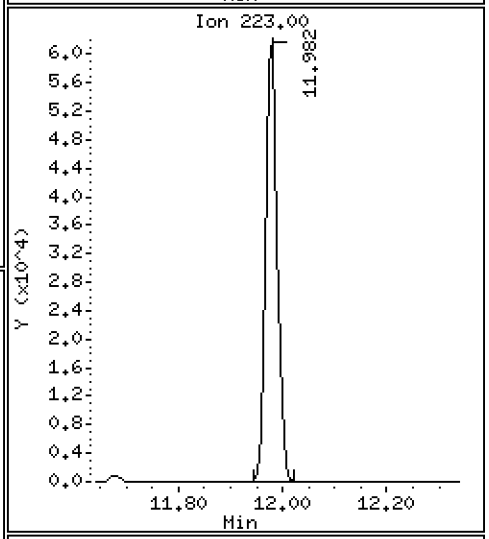


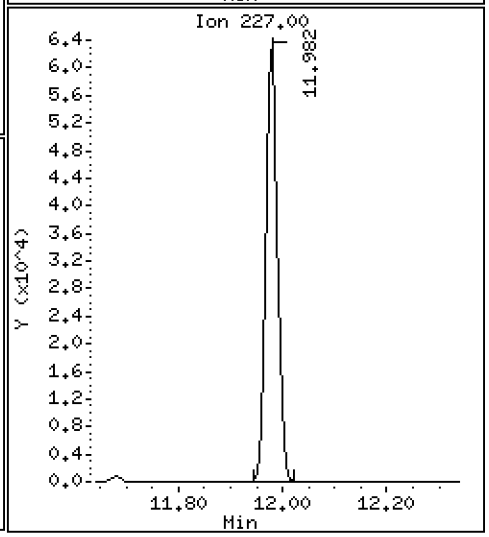












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212308.D

Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD1

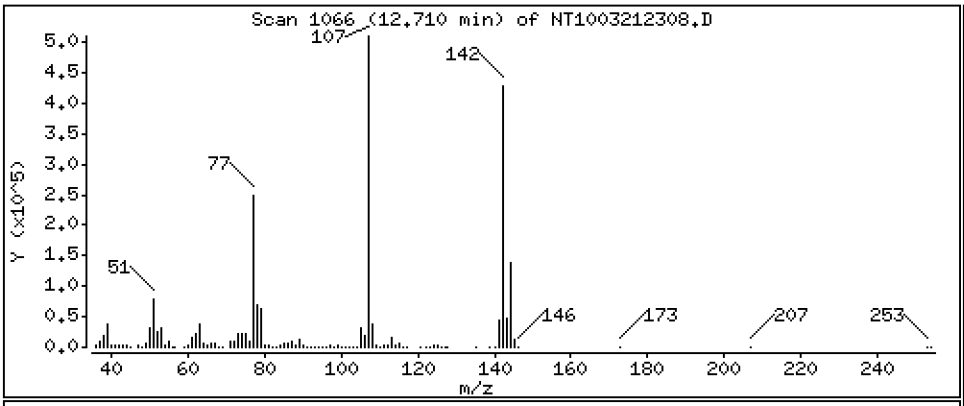
Operator: VTS

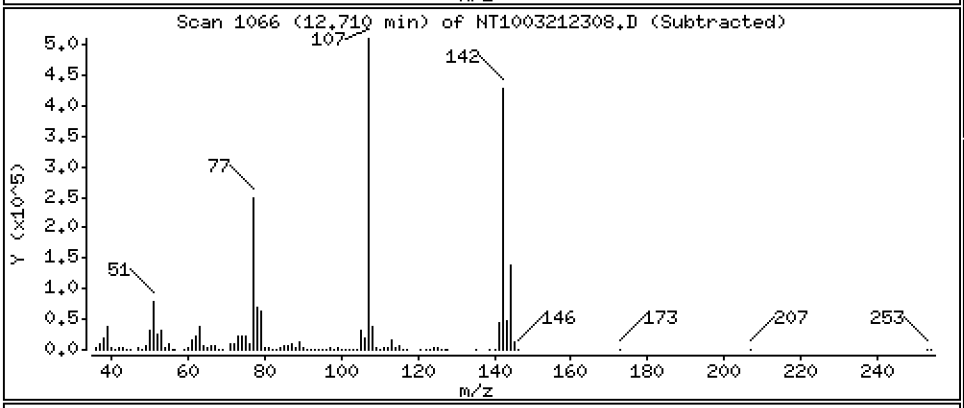
Column phase: ZB-5msi

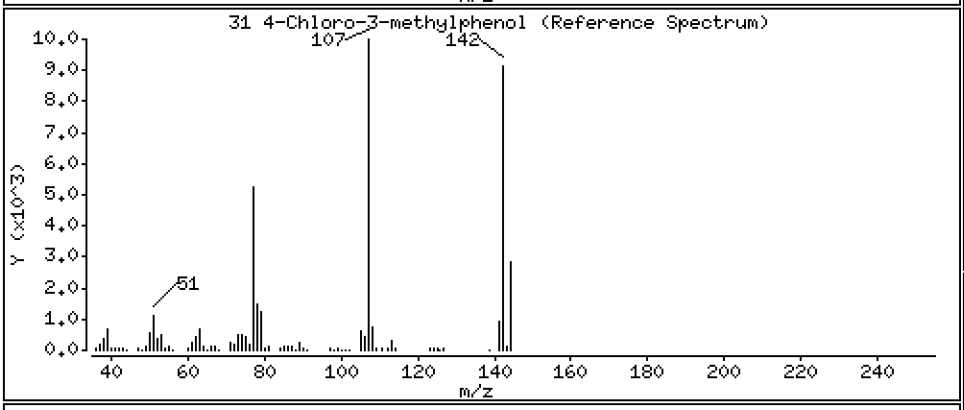
Column diameter: 0.25

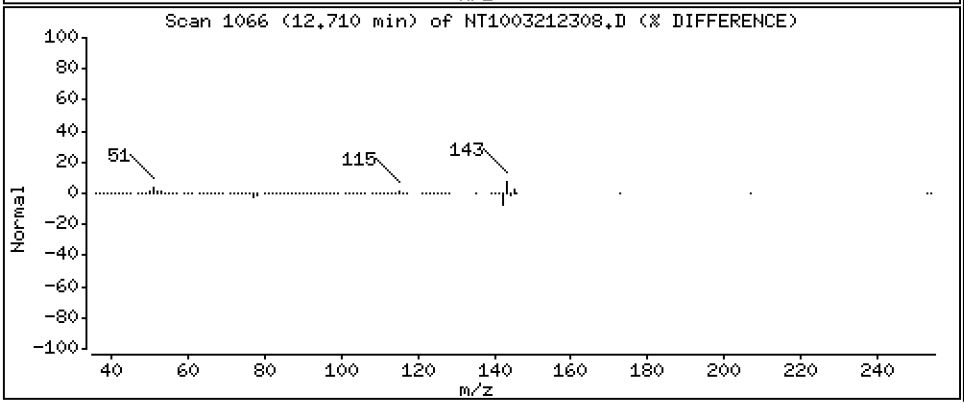
31 4-Chloro-3-methylphenol

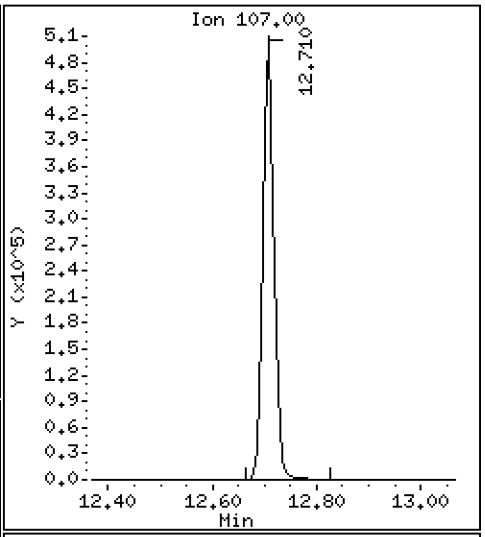
Concentration: 13.94 ug/mL

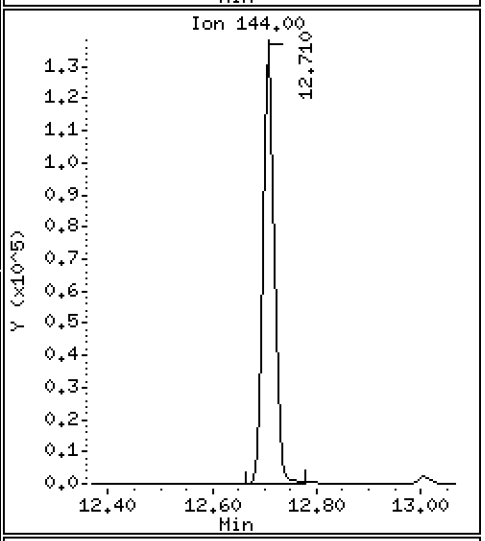


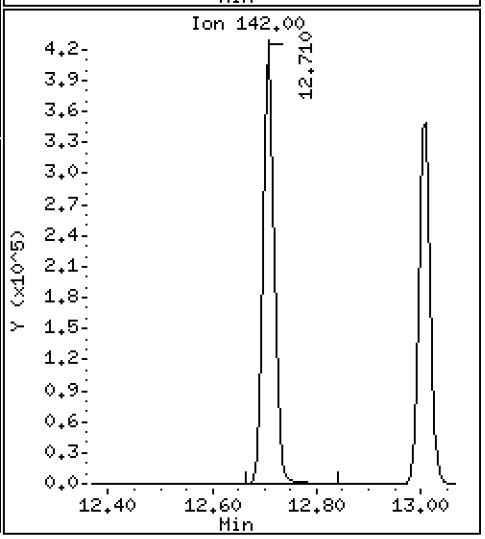












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Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD1

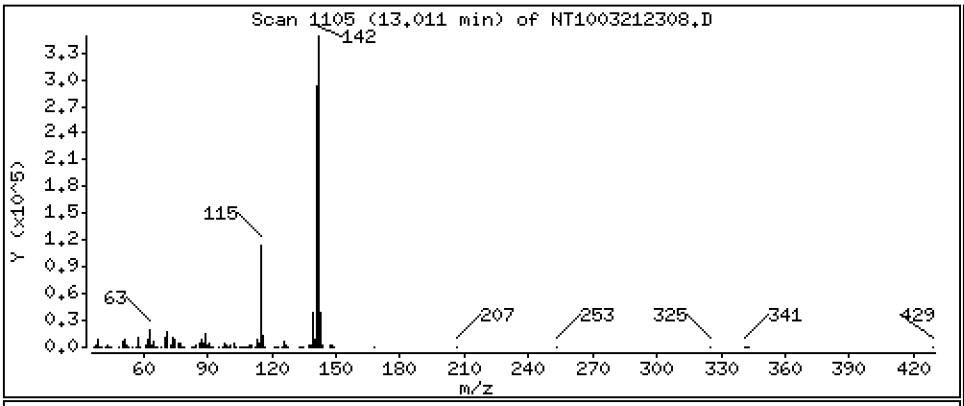
Operator: VTS

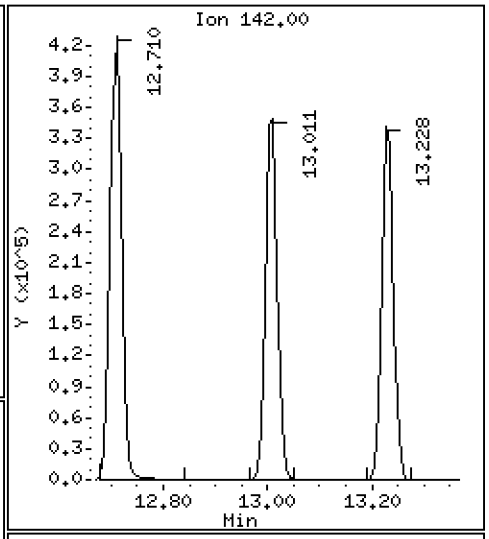
Column phase: ZB-5msi

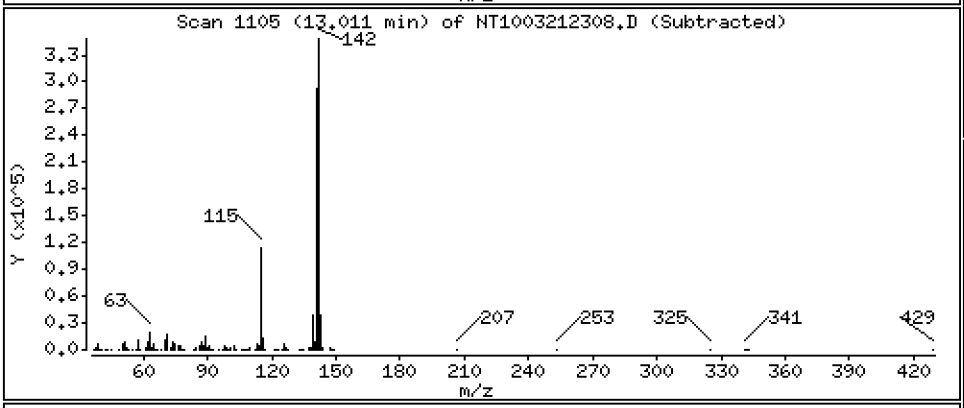
Column diameter: 0.25

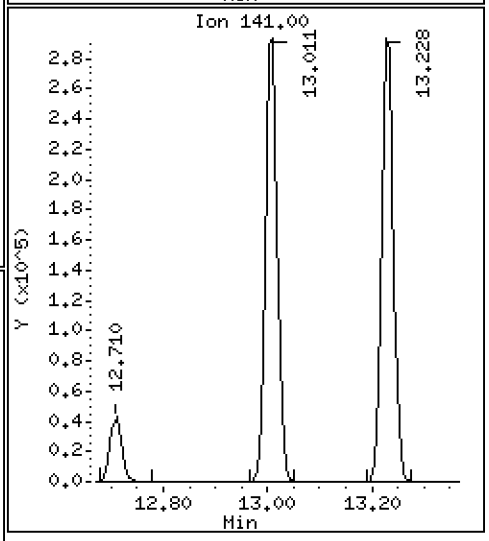
32 2-Methylnaphthalene

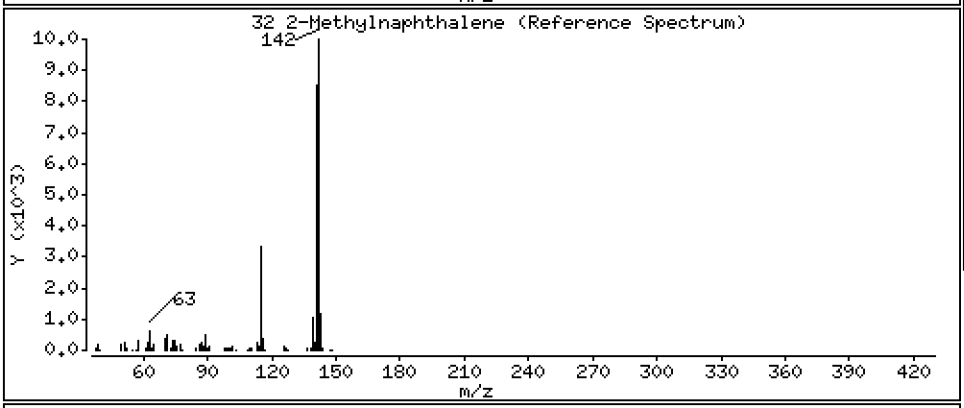
Concentration: 4.256 ug/mL

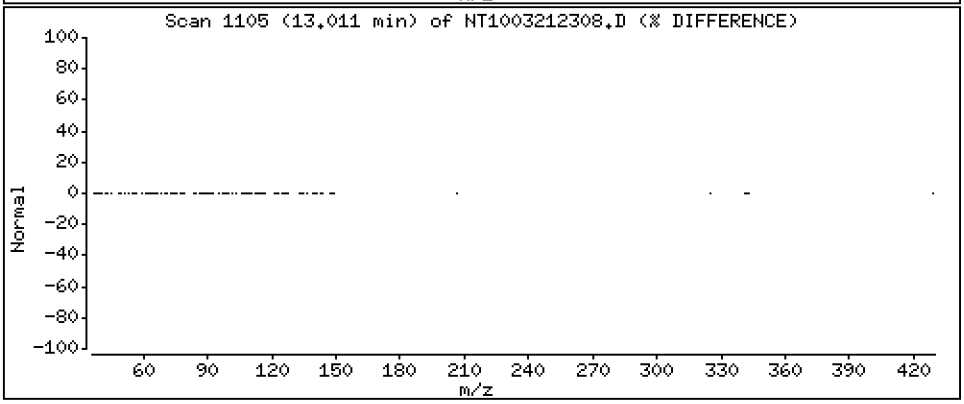












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212308.D

Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD1

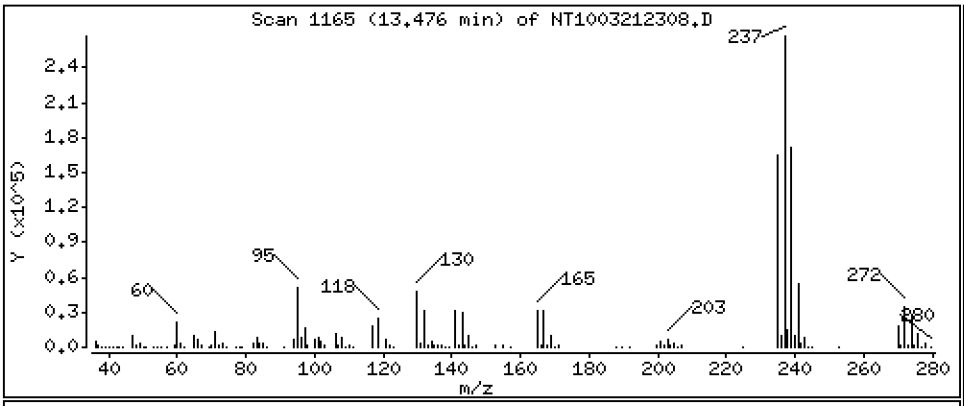
Operator: VTS

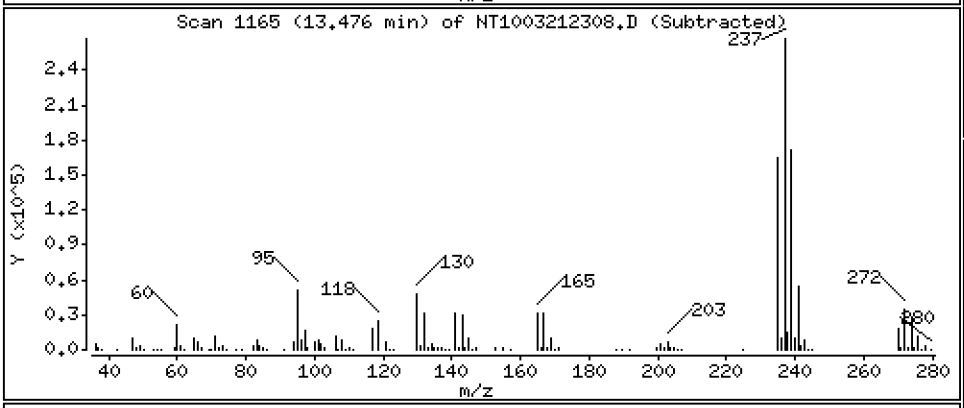
Column phase: ZB-5msi

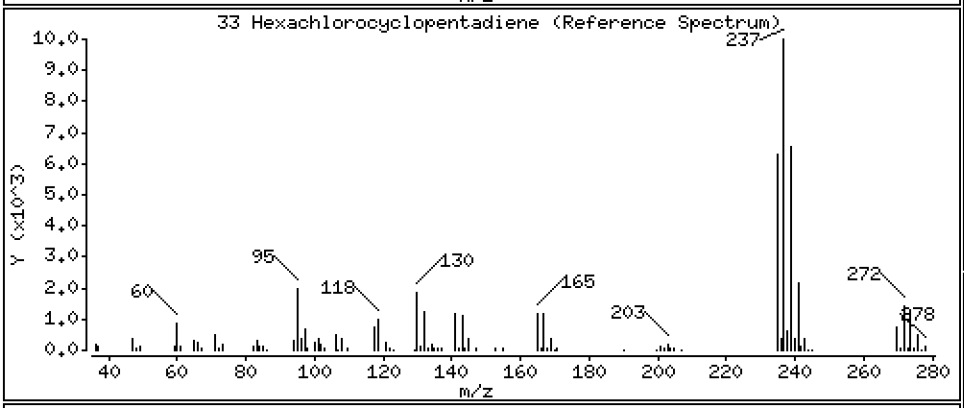
Column diameter: 0.25

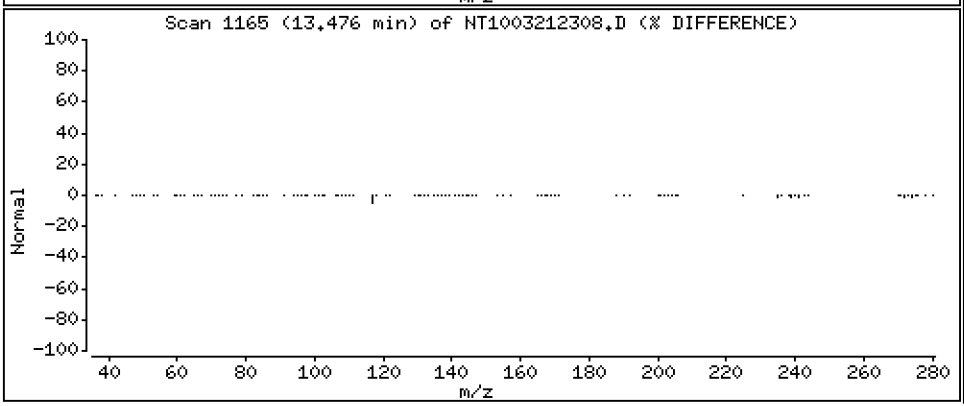
33 Hexachlorocyclopentadiene

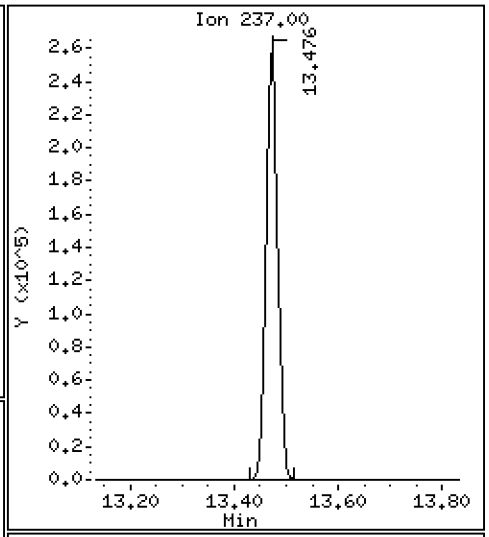
Concentration: 11.32 ug/mL

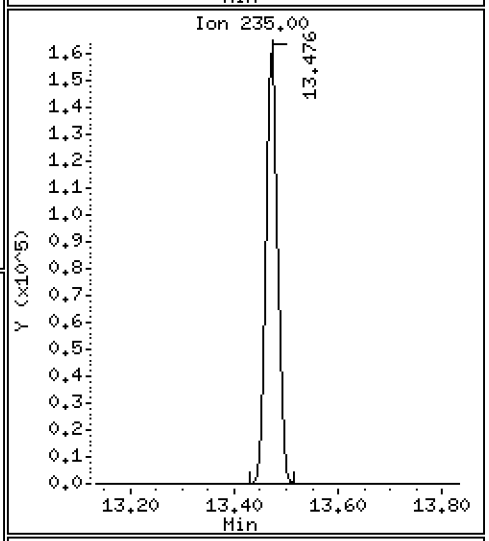


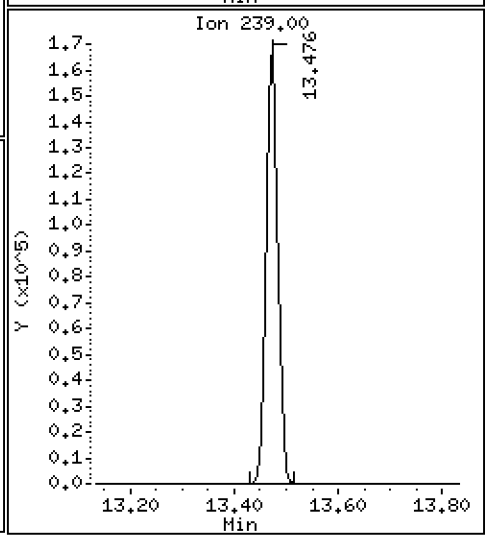












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Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD1

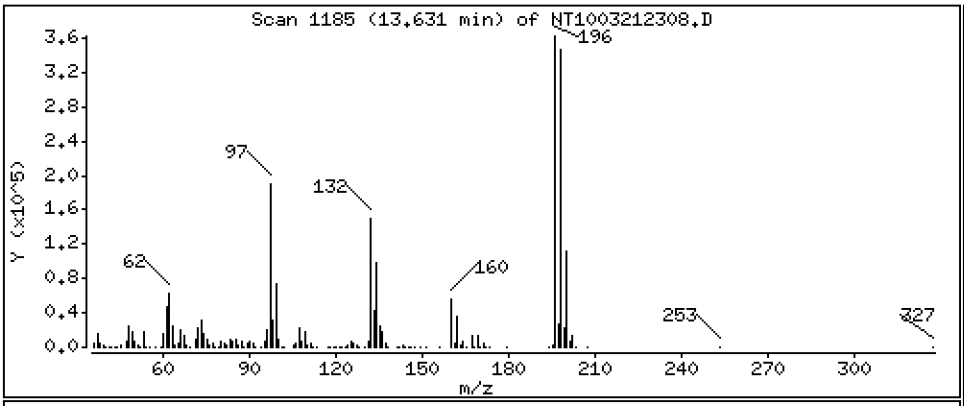
Operator: VTS

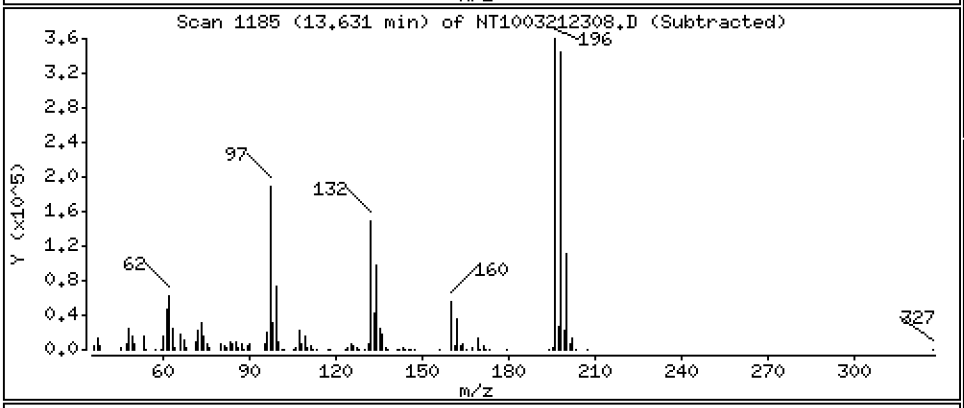
Column phase: ZB-5msi

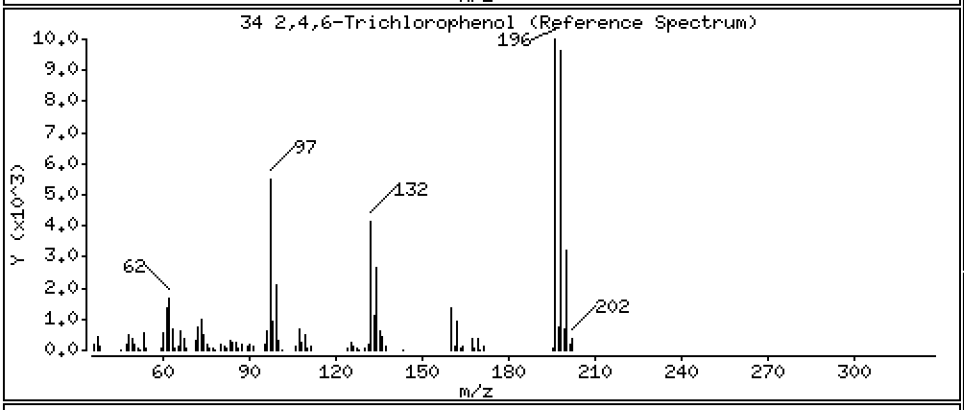
Column diameter: 0.25

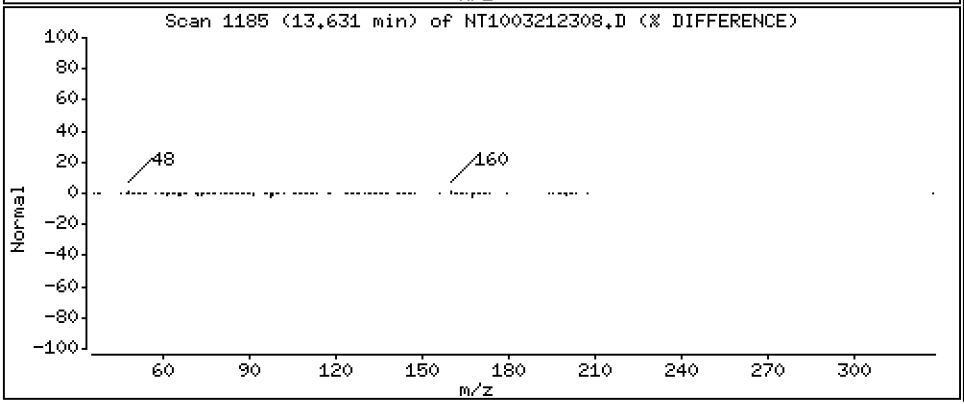
34 2,4,6-Trichlorophenol

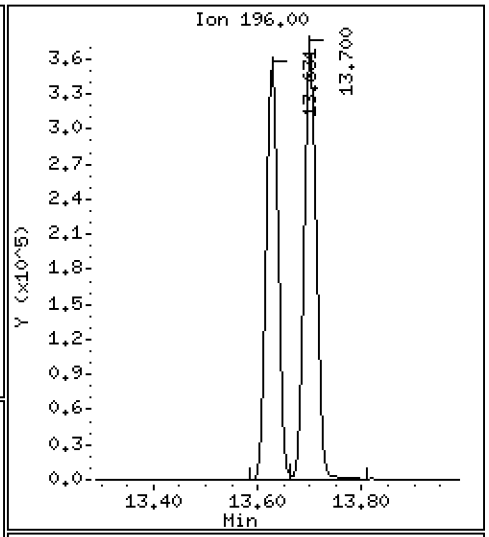
Concentration: 14.27 ug/mL

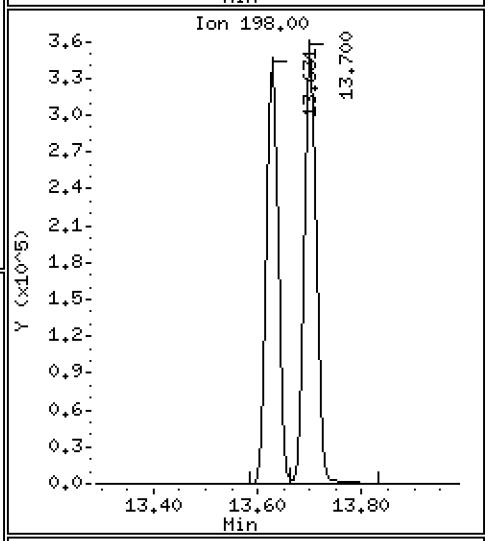


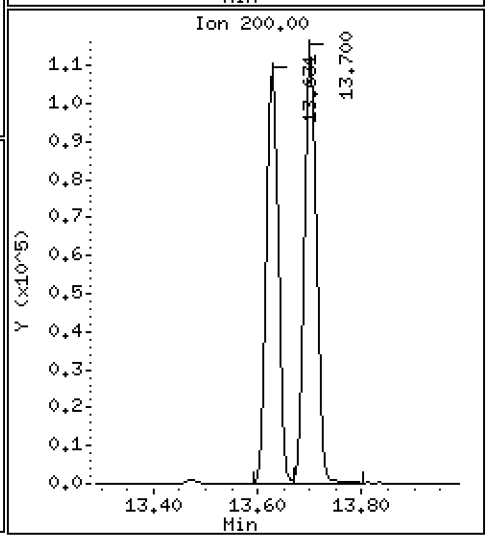












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Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD1

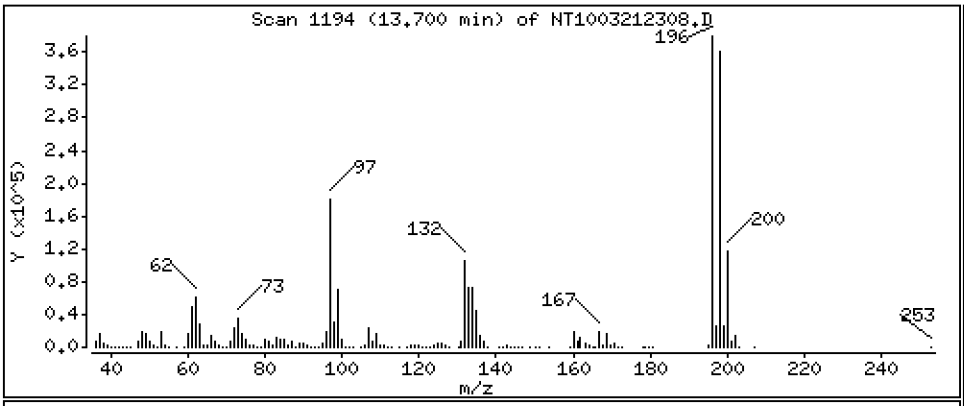
Operator: VTS

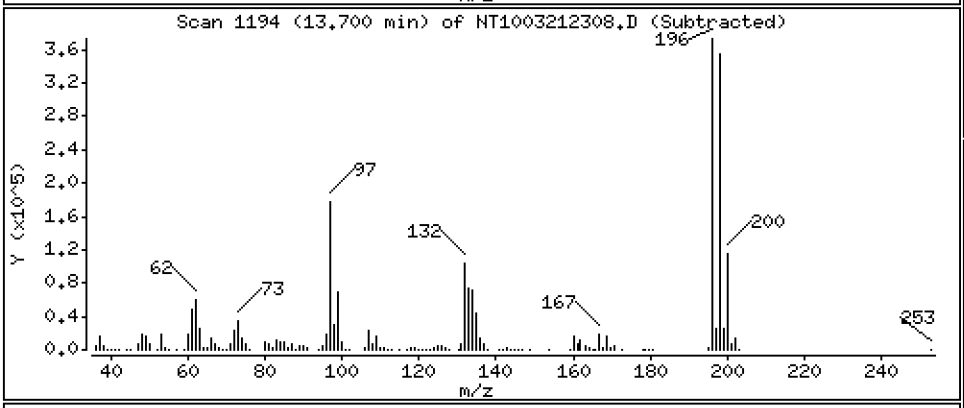
Column phase: ZB-5msi

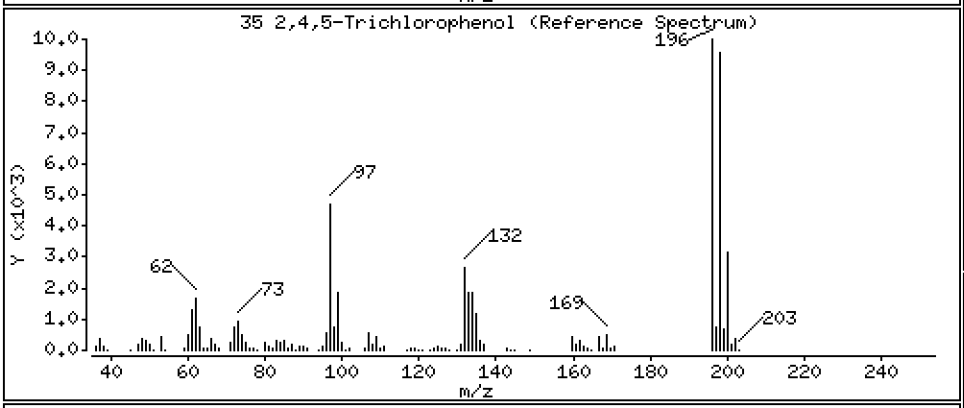
Column diameter: 0.25

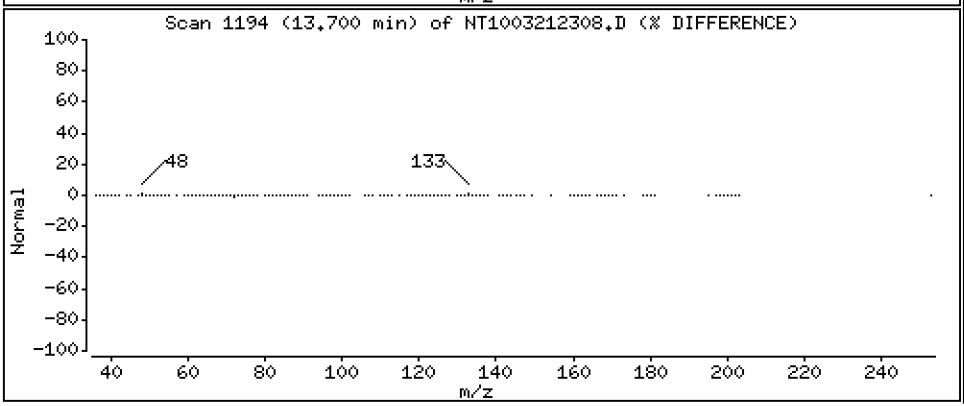
35 2,4,5-Trichlorophenol

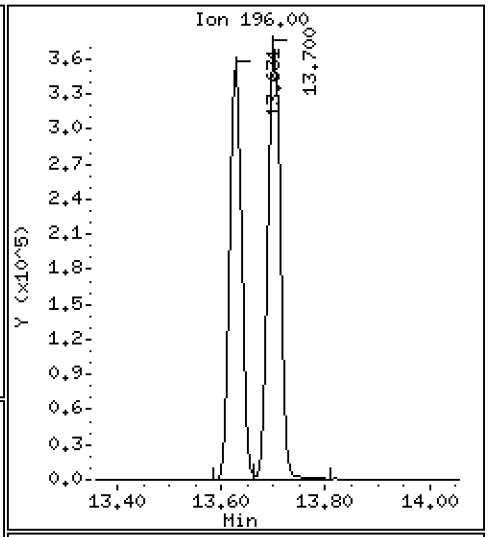
Concentration: 13.95 ug/mL

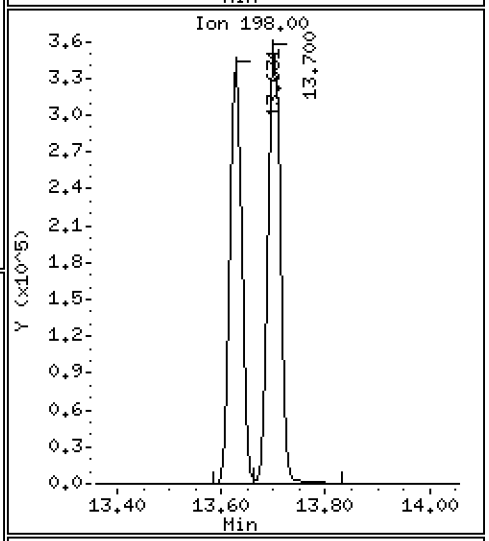


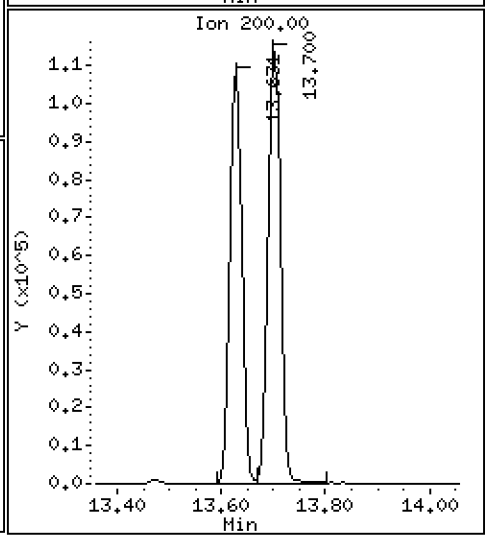












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Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD1

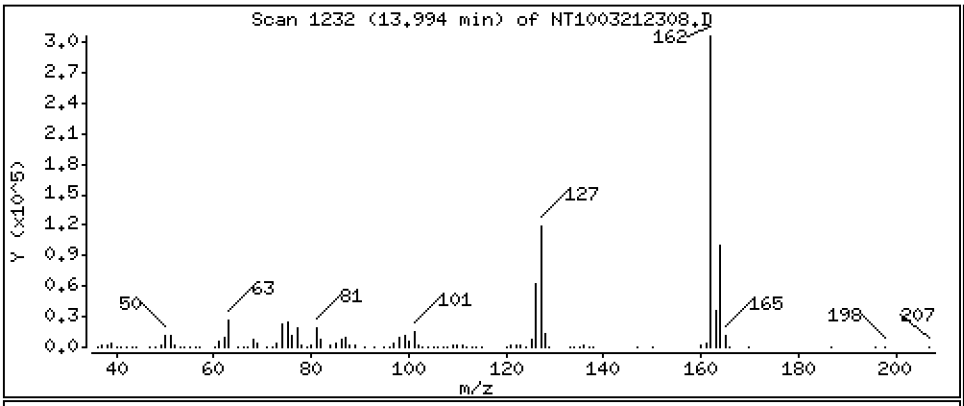
Operator: VTS

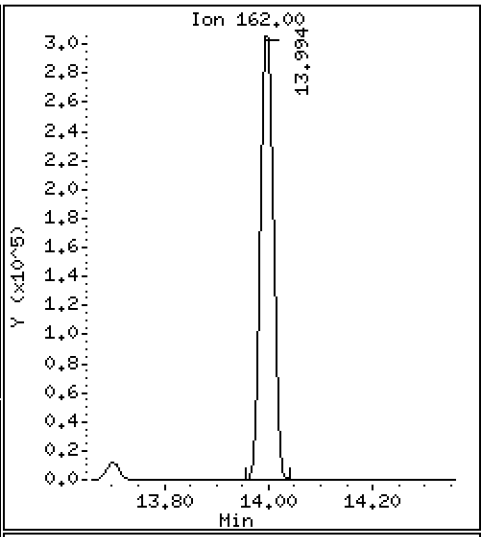
Column phase: ZB-5msi

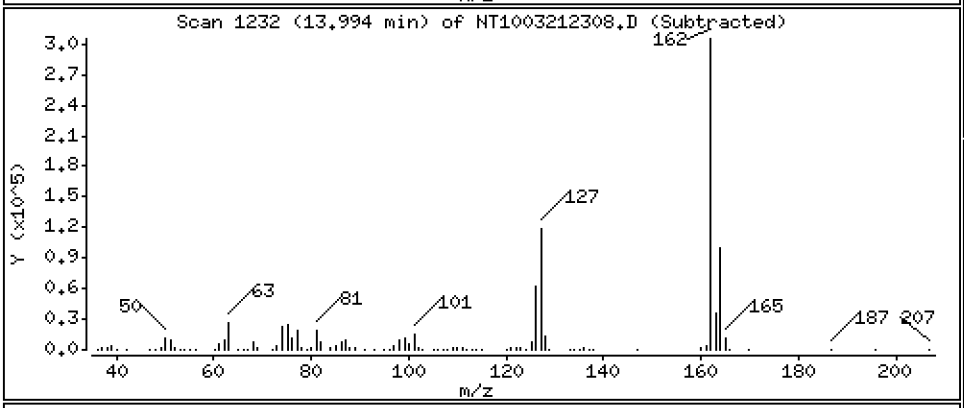
Column diameter: 0.25

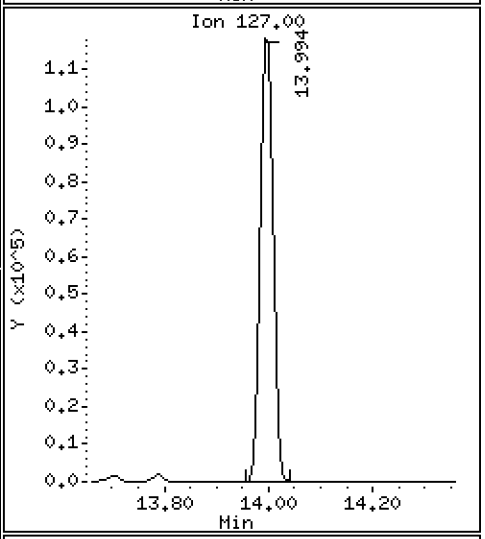
37 2-Chloronaphthalene

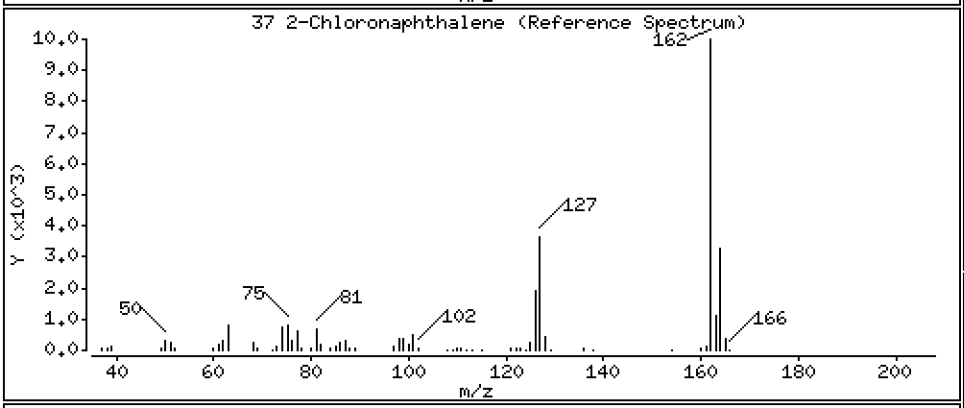
Concentration: 4.196 ug/mL

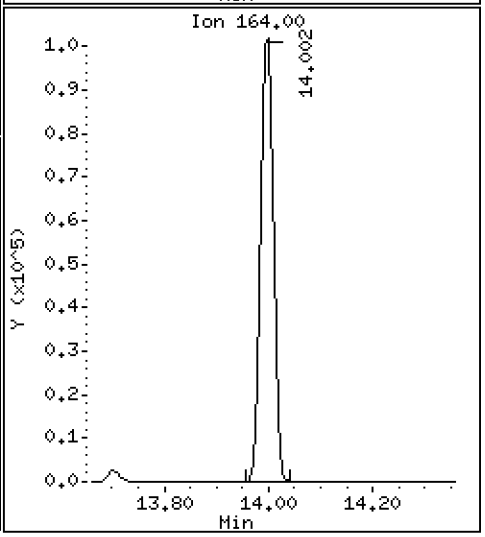


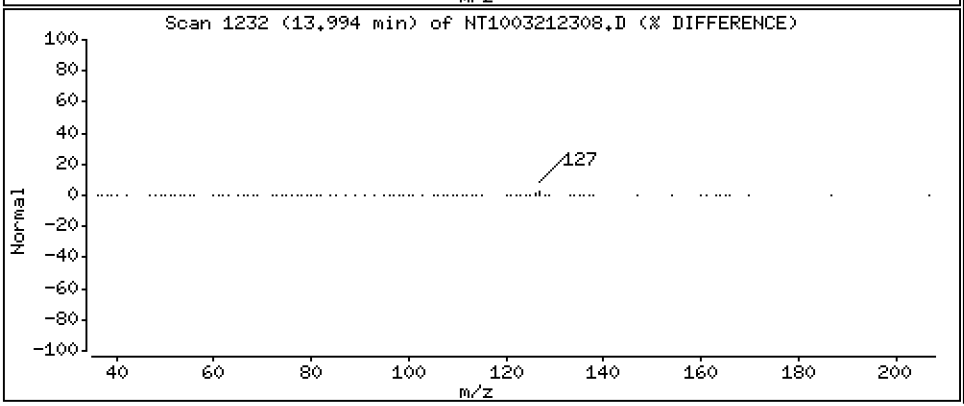












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Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD1

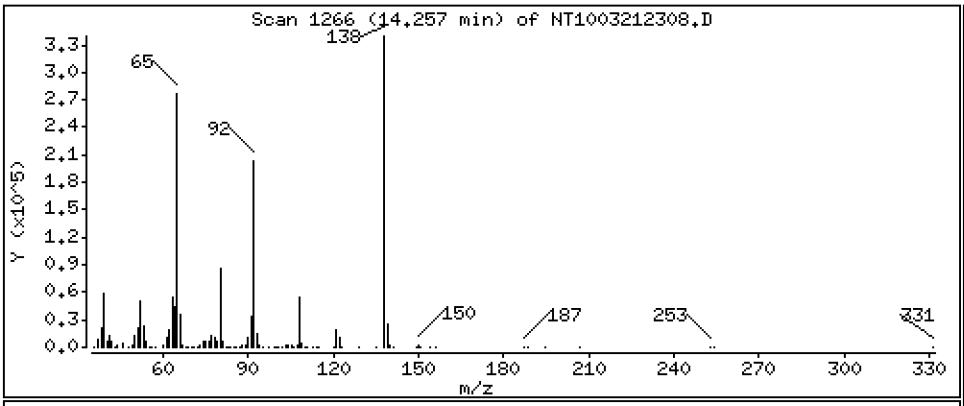
Operator: VTS

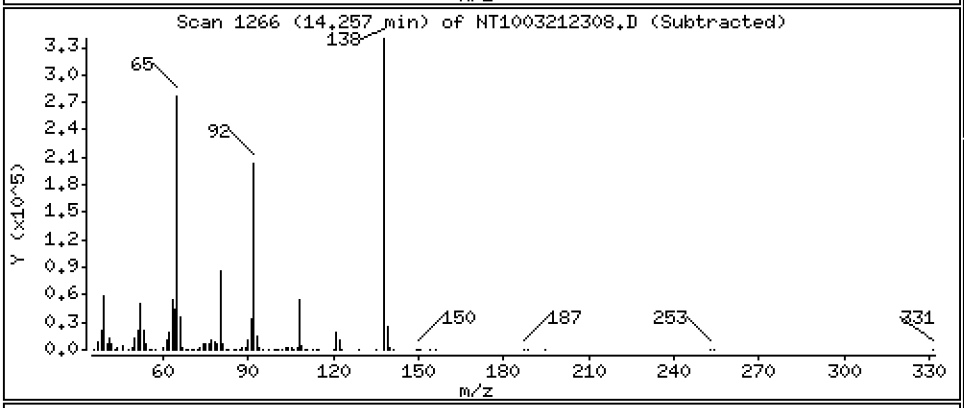
Column phase: ZB-5msi

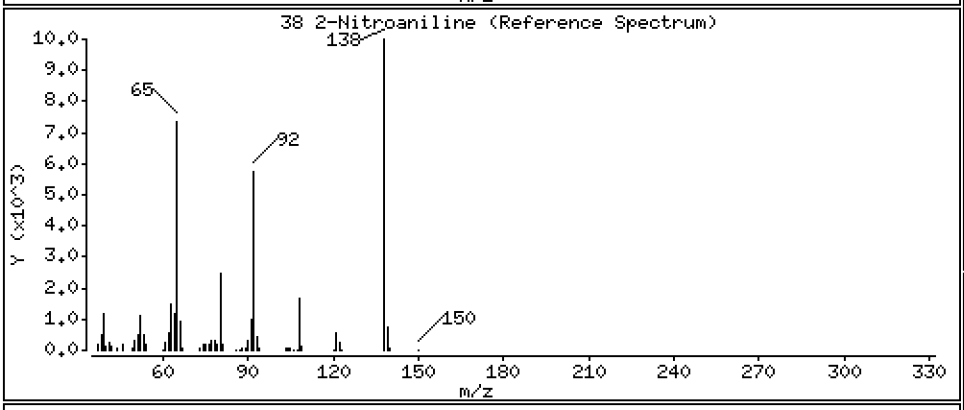
Column diameter: 0.25

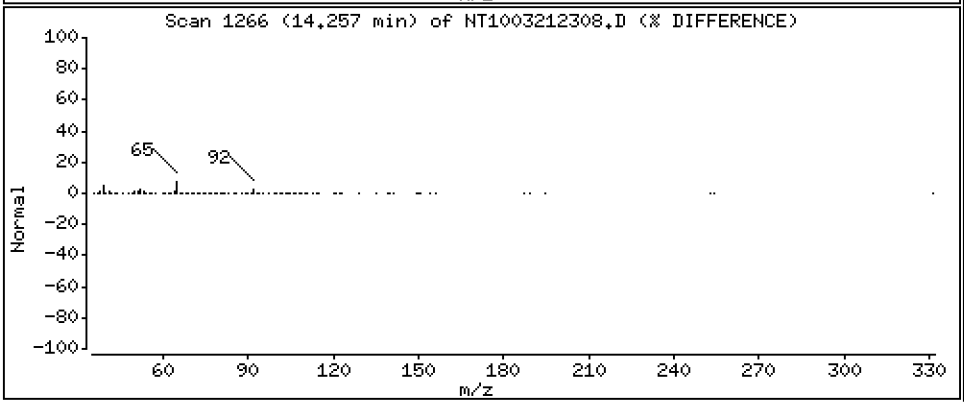
38 2-Nitroaniline

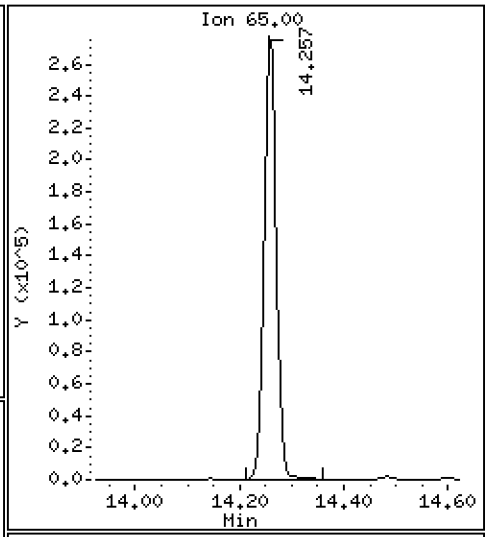
Concentration: 13.18 ug/mL

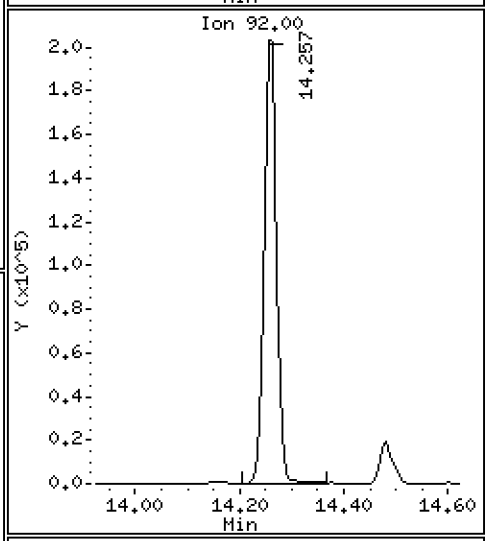


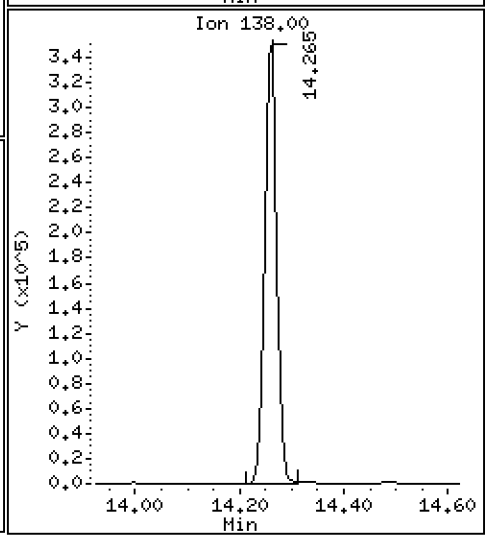












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Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD1

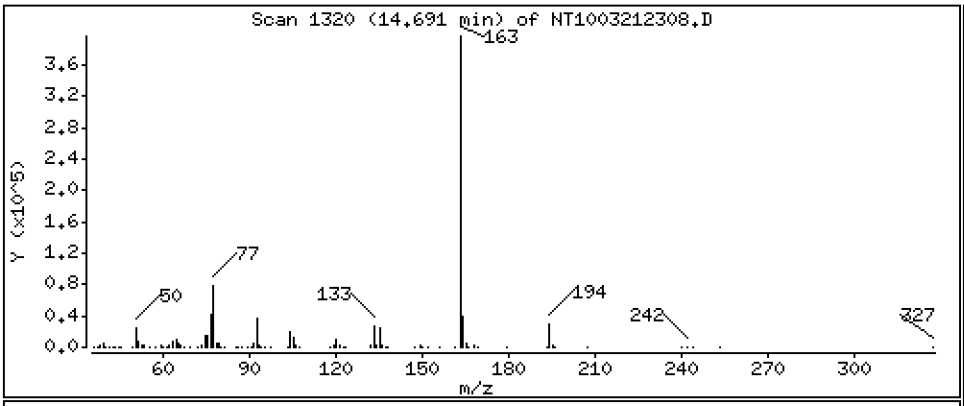
Operator: VTS

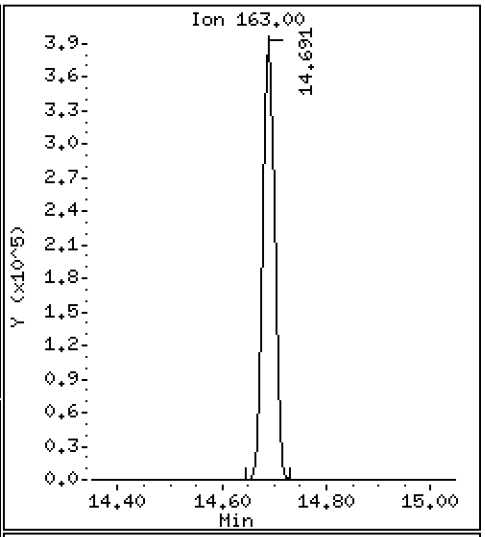
Column phase: ZB-5msi

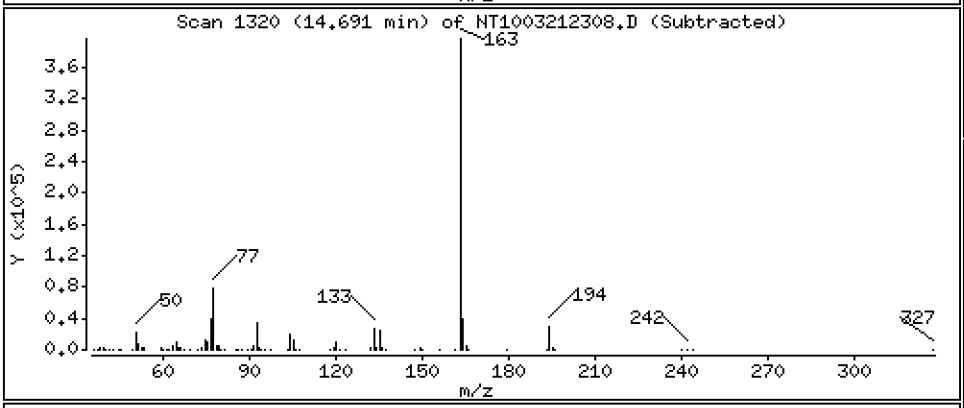
Column diameter: 0.25

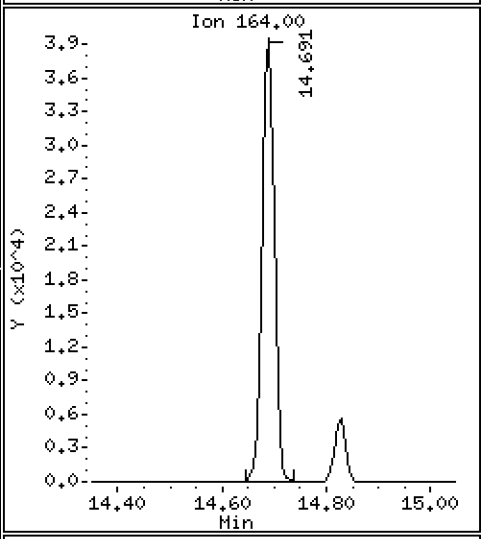
39 Dimethylphthalate

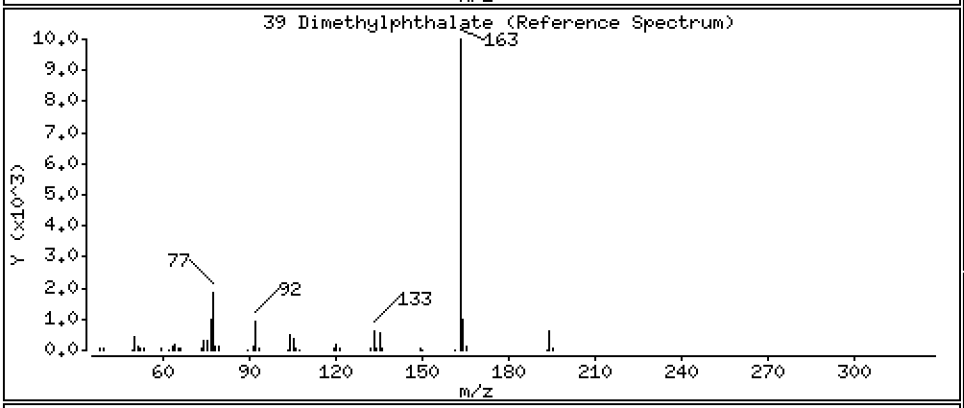
Concentration: 4.742 ug/mL

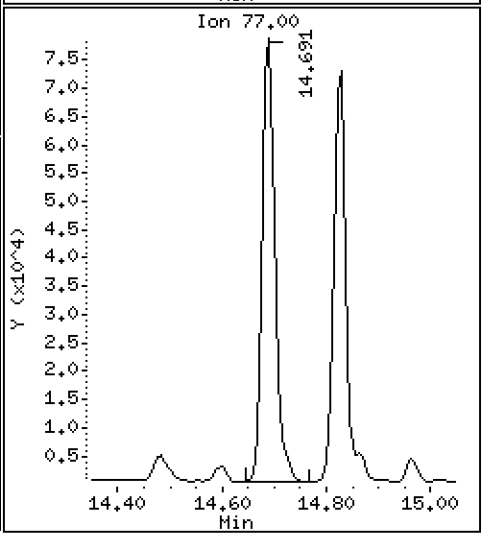


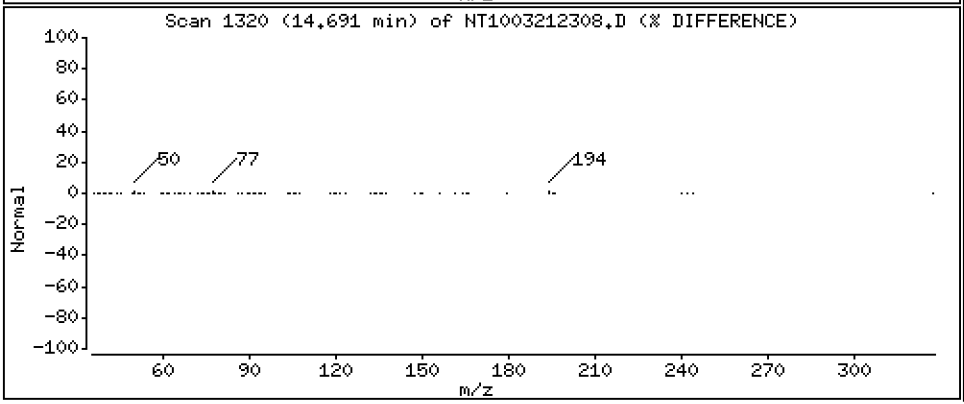












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Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD1

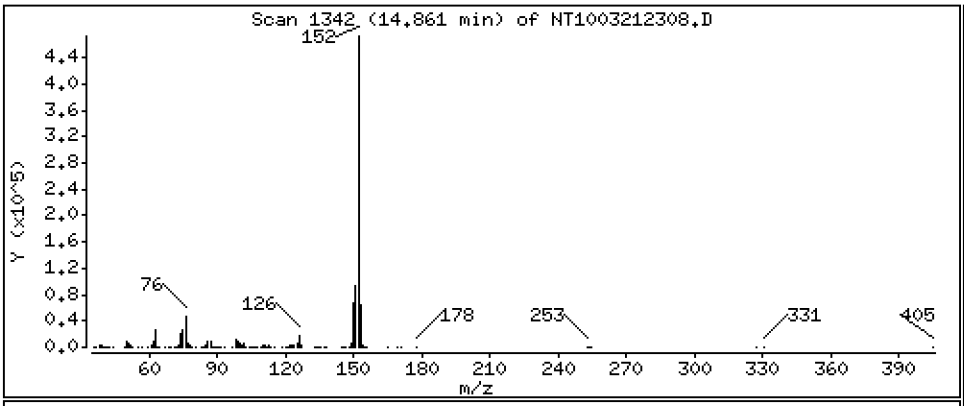
Operator: VTS

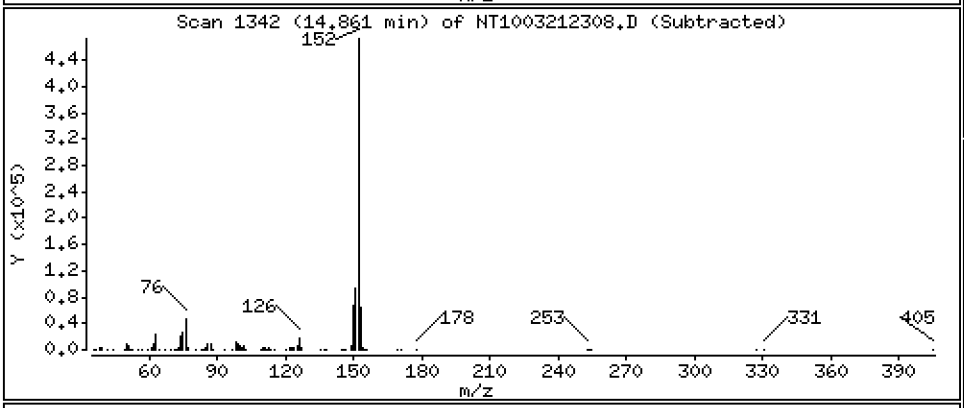
Column phase: ZB-5msi

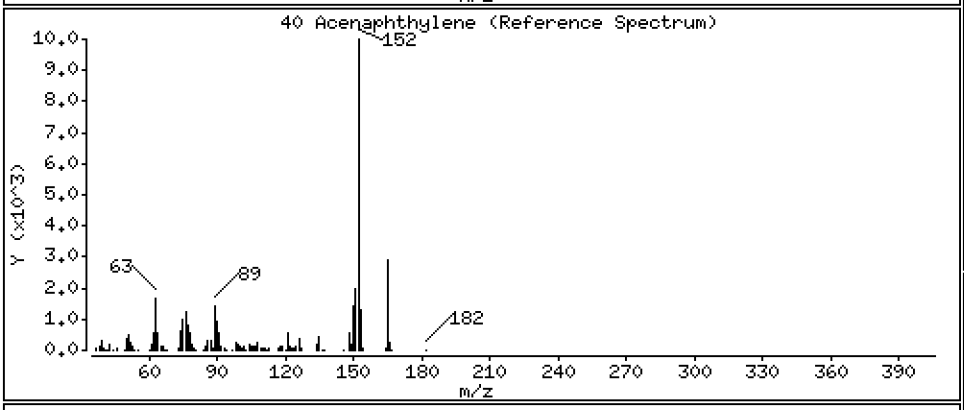
Column diameter: 0.25

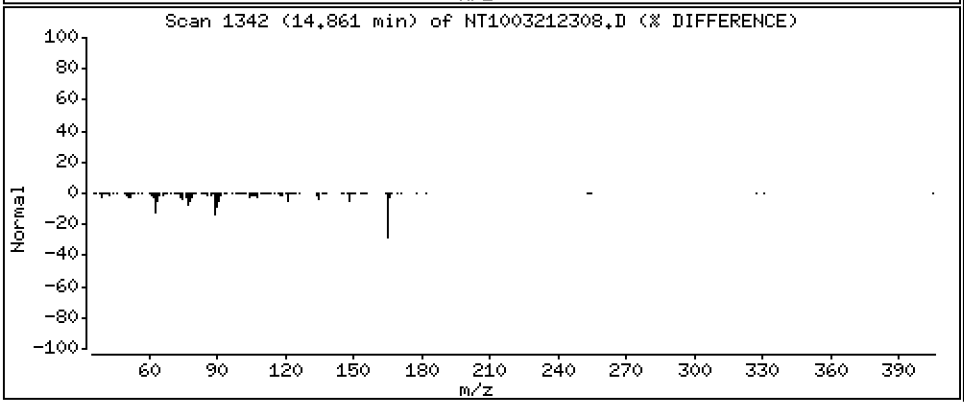
40 Acenaphthylene

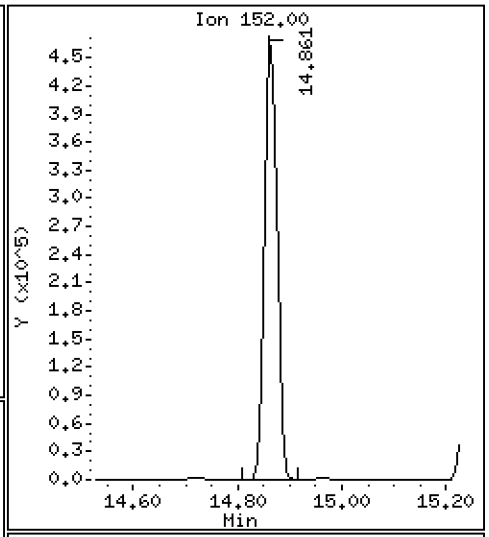
Concentration: 3.982 ug/mL

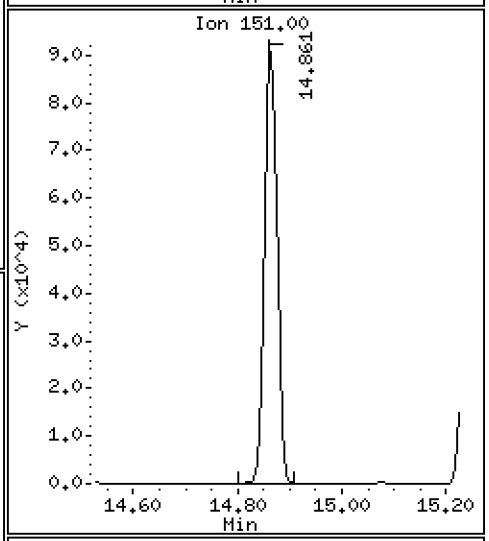


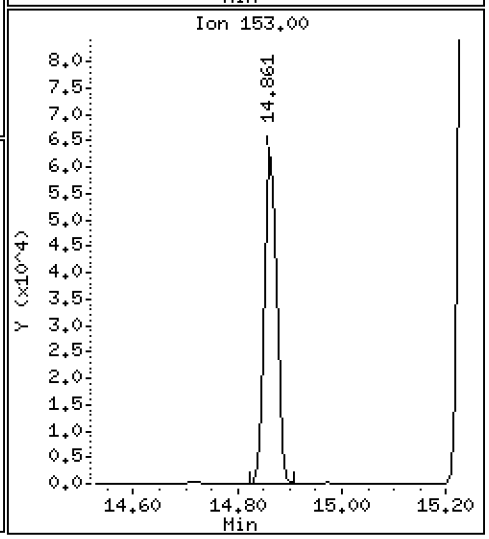












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Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD1

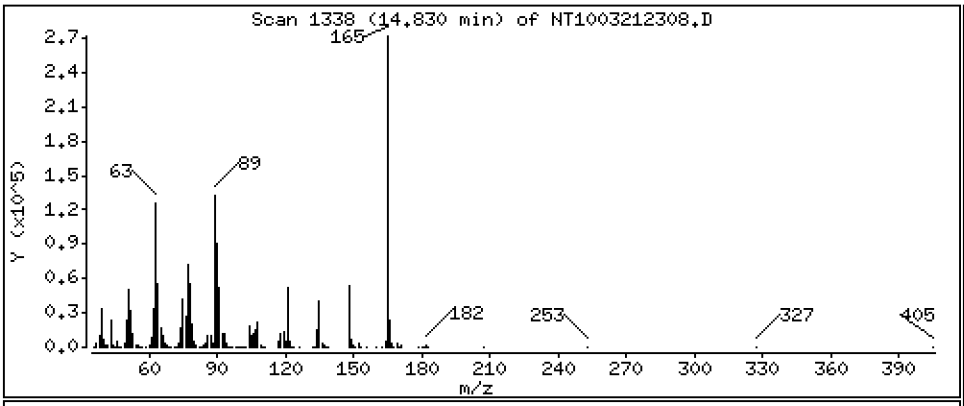
Operator: VTS

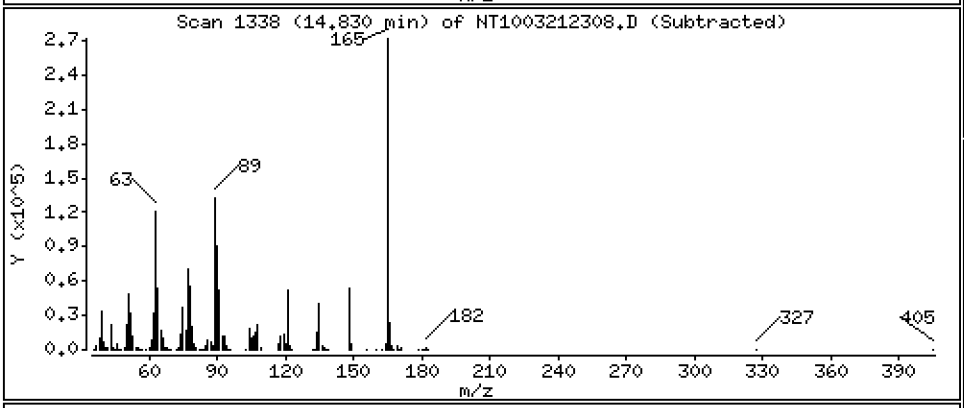
Column phase: ZB-5msi

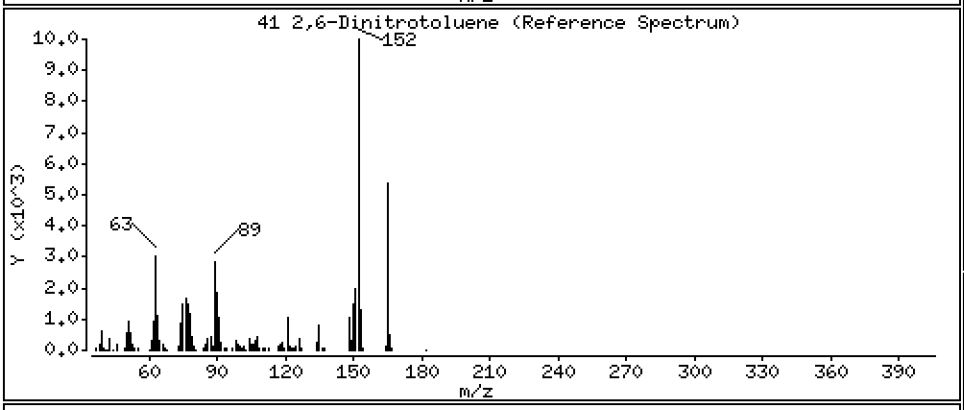
Column diameter: 0.25

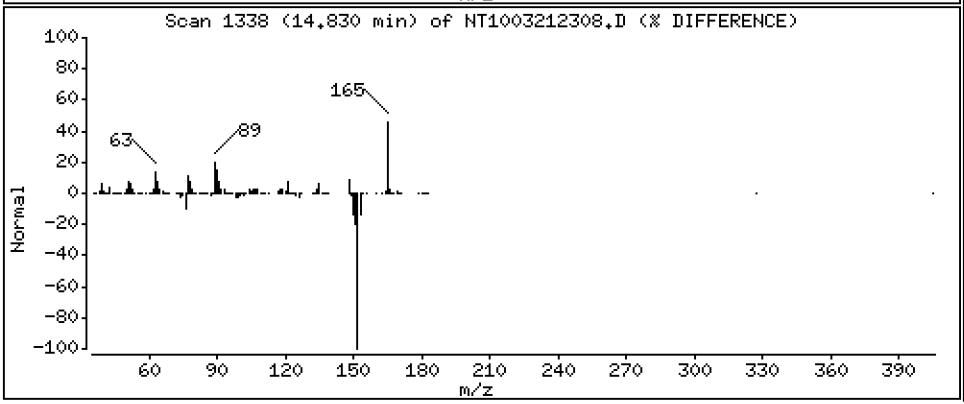
41 2,6-Dinitrotoluene

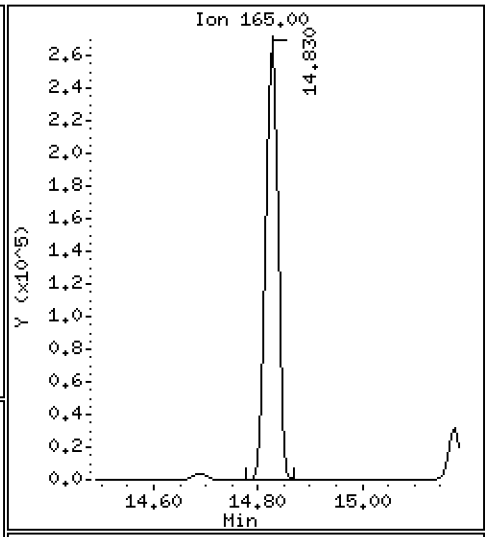
Concentration: 15.74 ug/mL

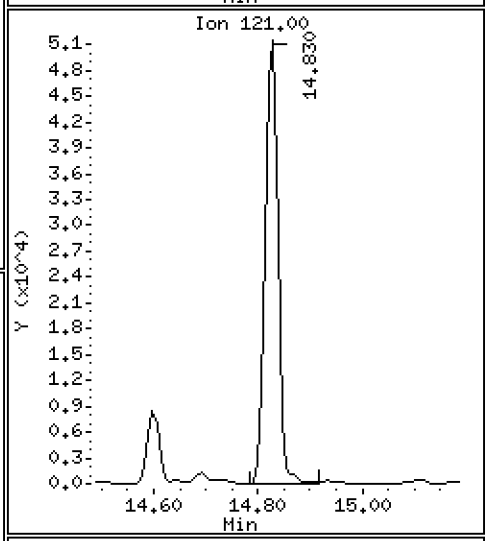


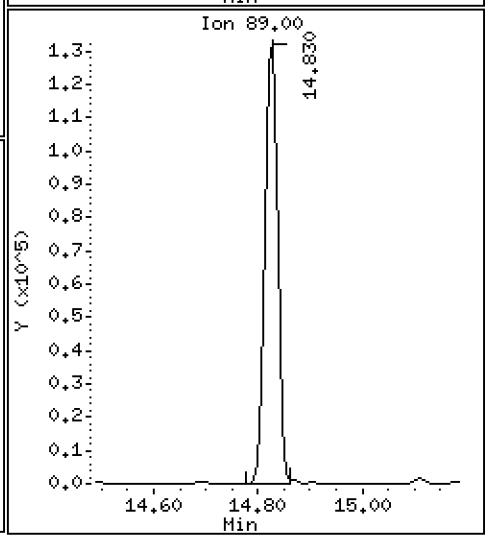












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212308.D

Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD1

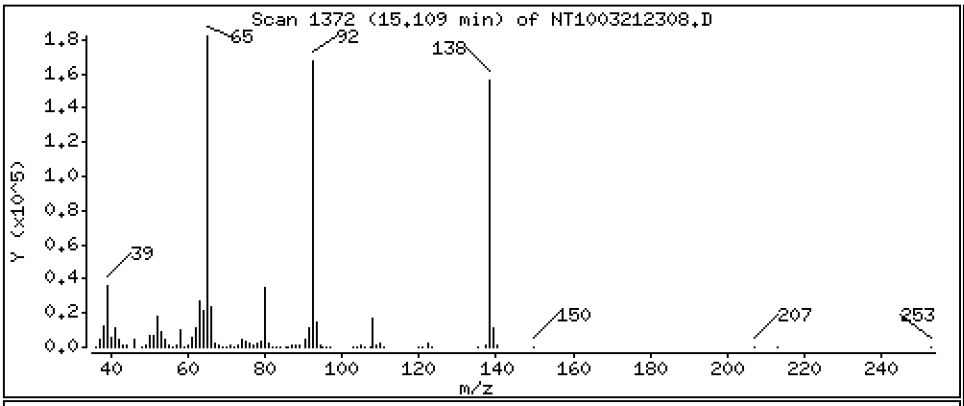
Operator: VTS

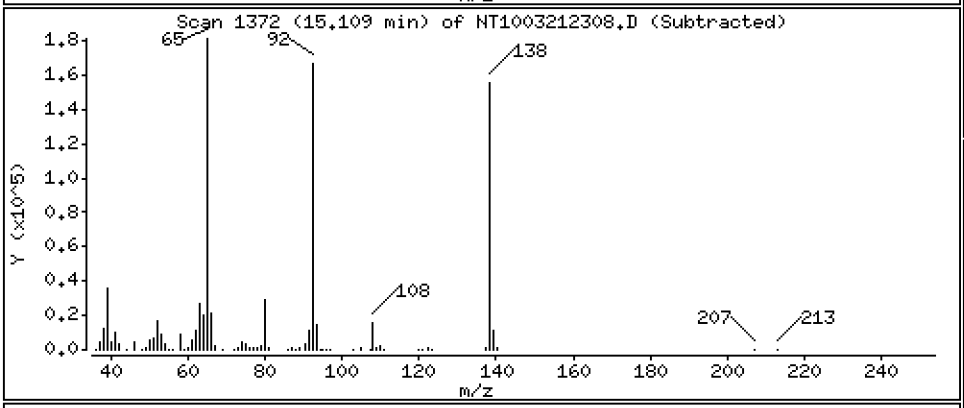
Column phase: ZB-5msi

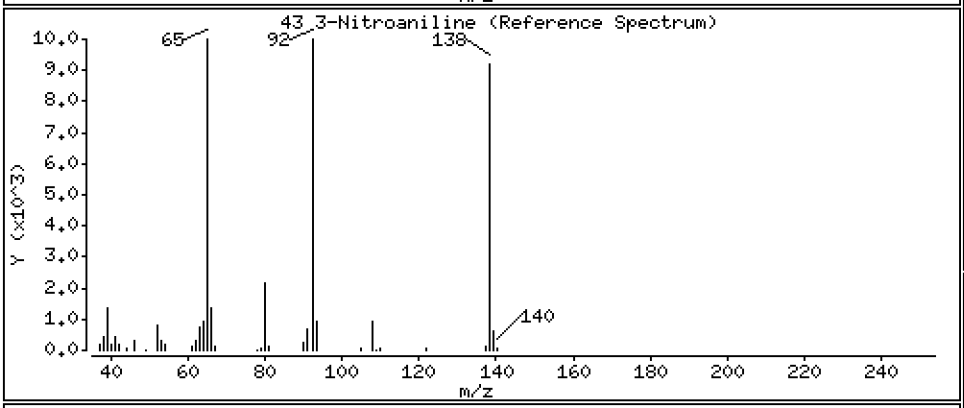
Column diameter: 0.25

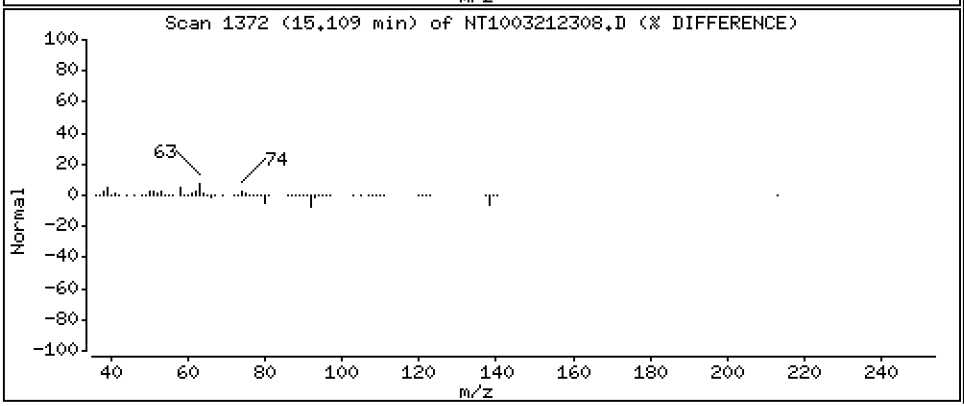
43 3-Nitroaniline

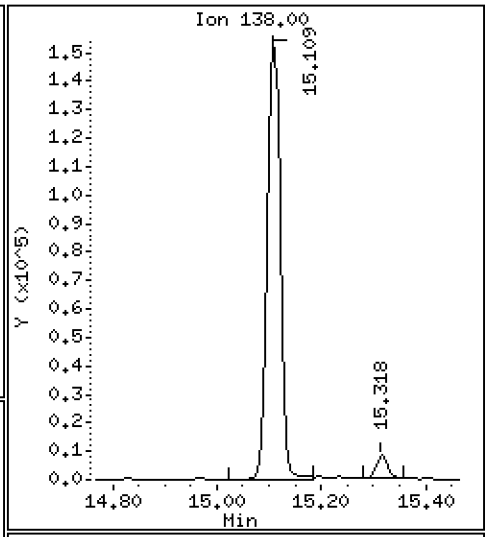
Concentration: 8.358 ug/mL

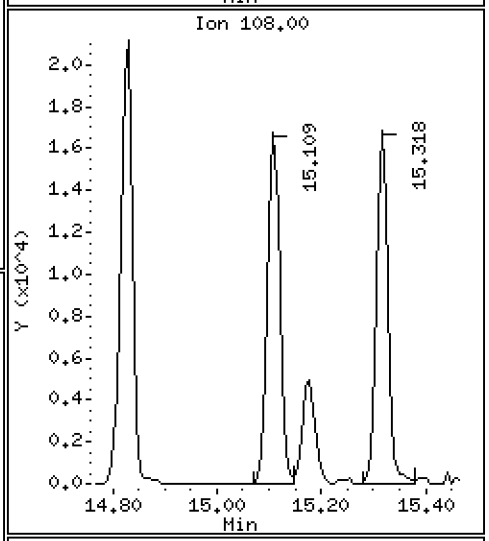


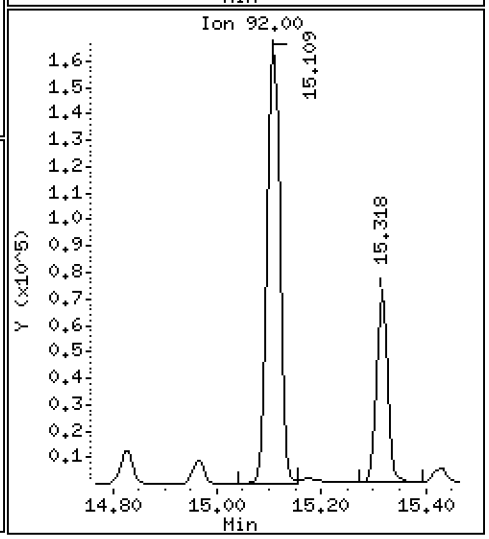












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Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD1

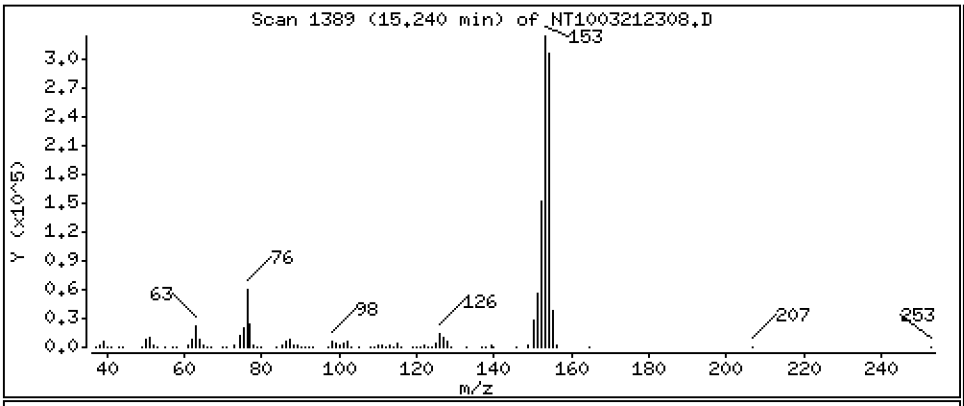
Operator: VTS

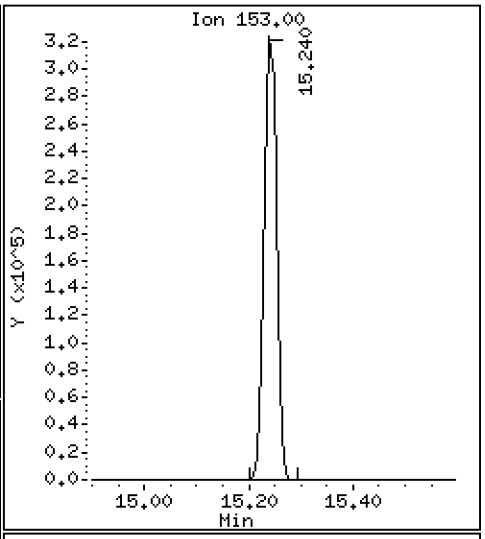
Column phase: ZB-5msi

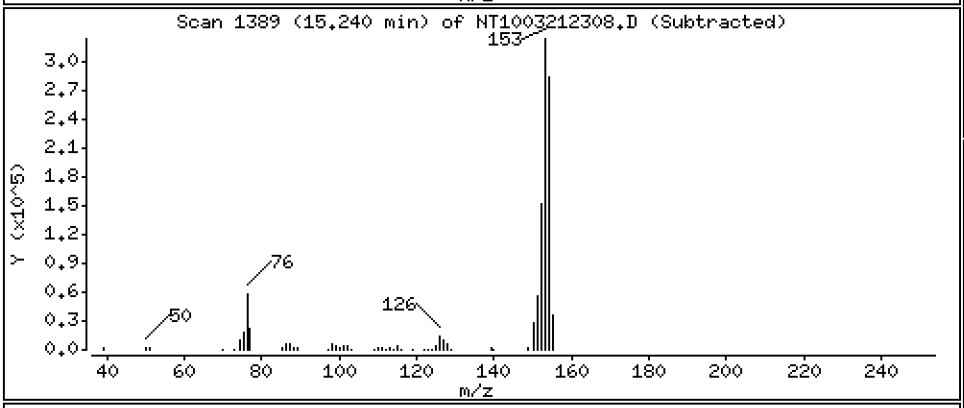
Column diameter: 0.25

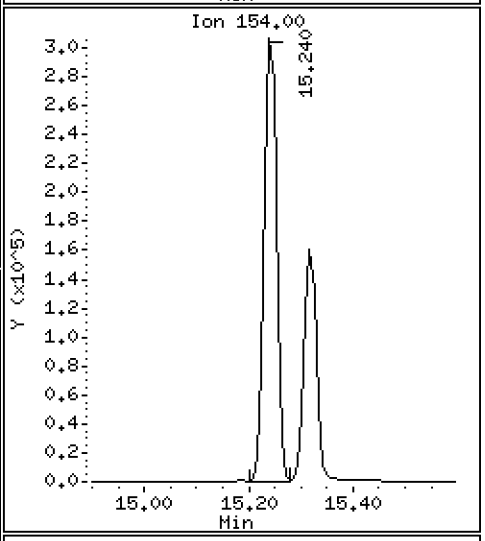
44 Acenaphthene

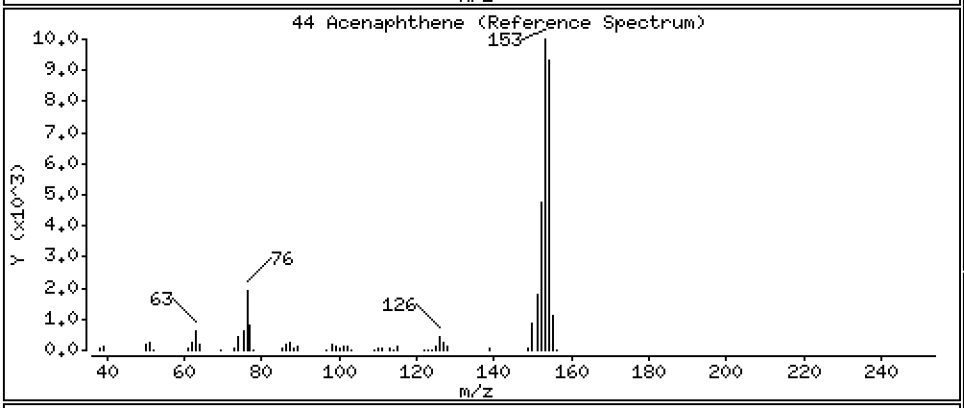
Concentration: 4.336 ug/mL

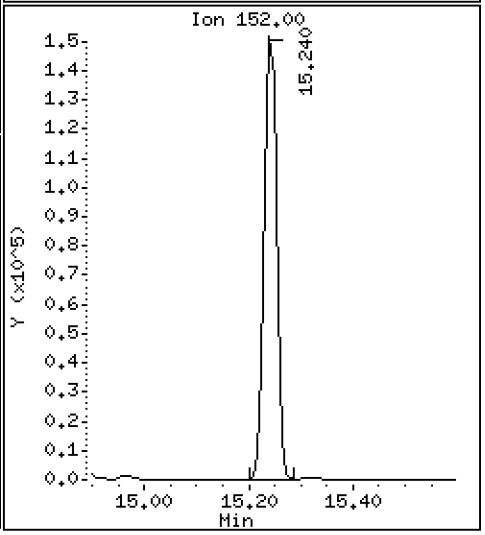


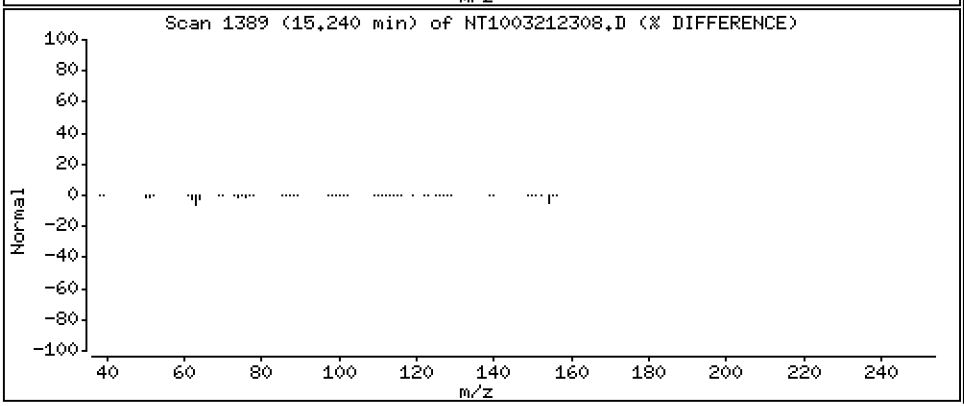












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Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD1

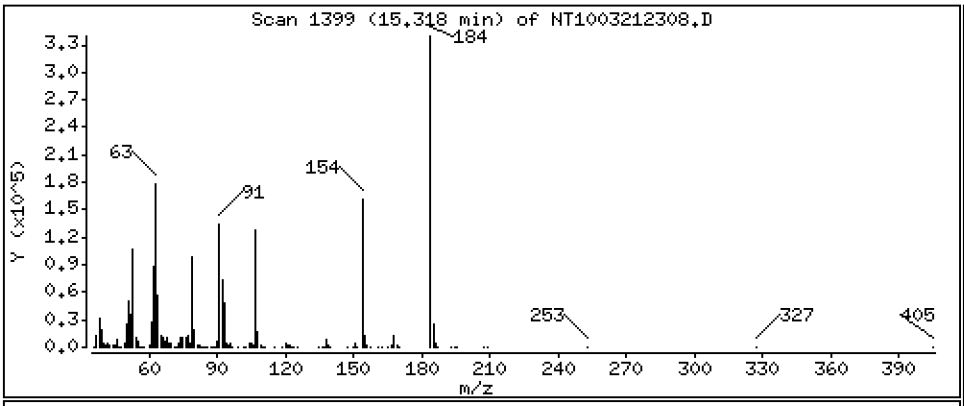
Operator: VTS

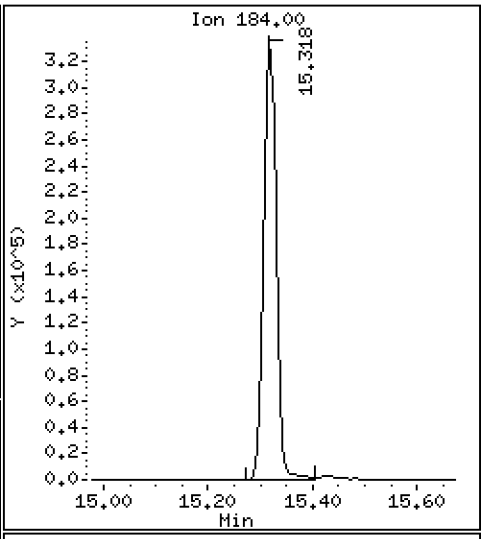
Column phase: ZB-5msi

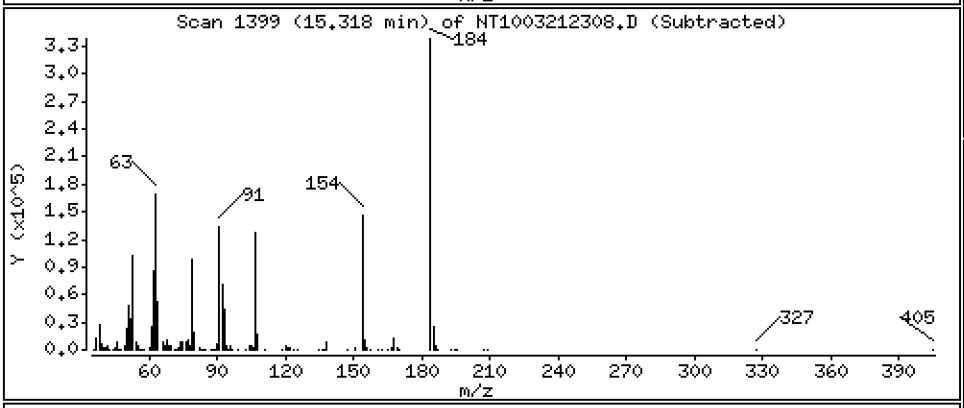
Column diameter: 0.25

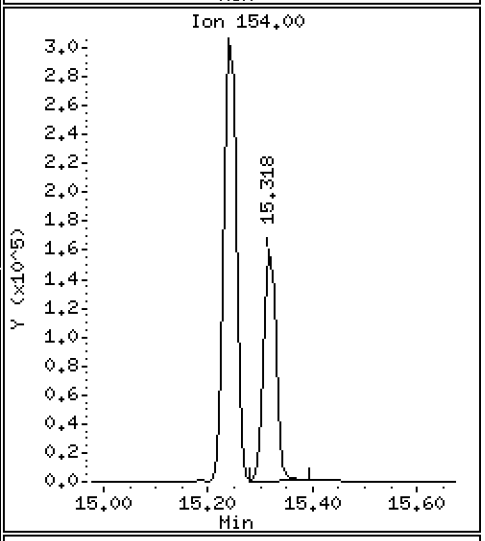
45 2,4-Dinitrophenol

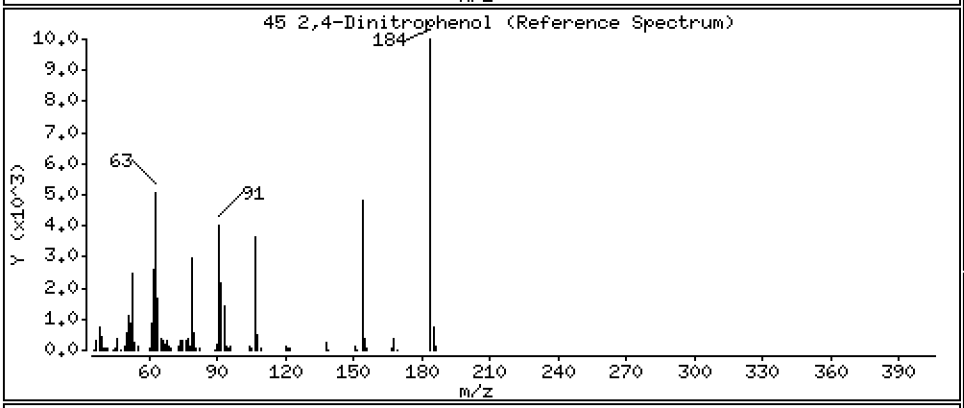
Concentration: 30.71 ug/mL

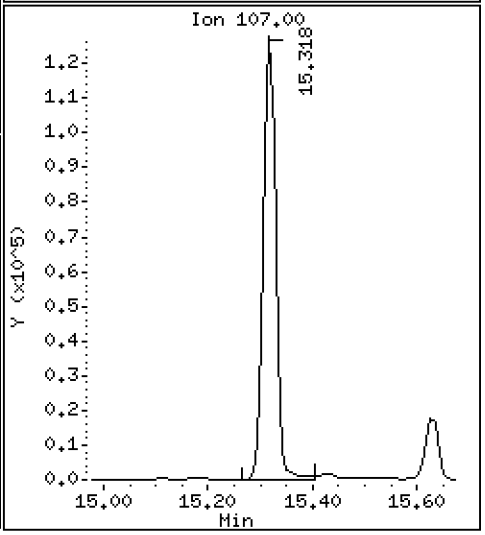


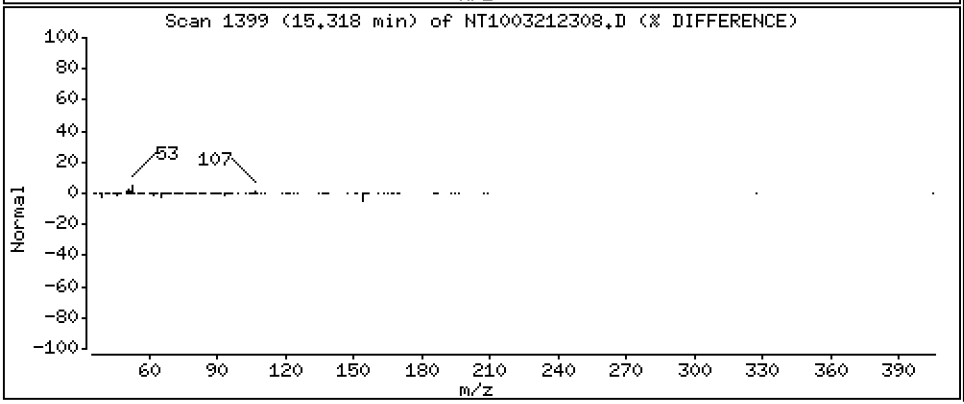












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Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD1

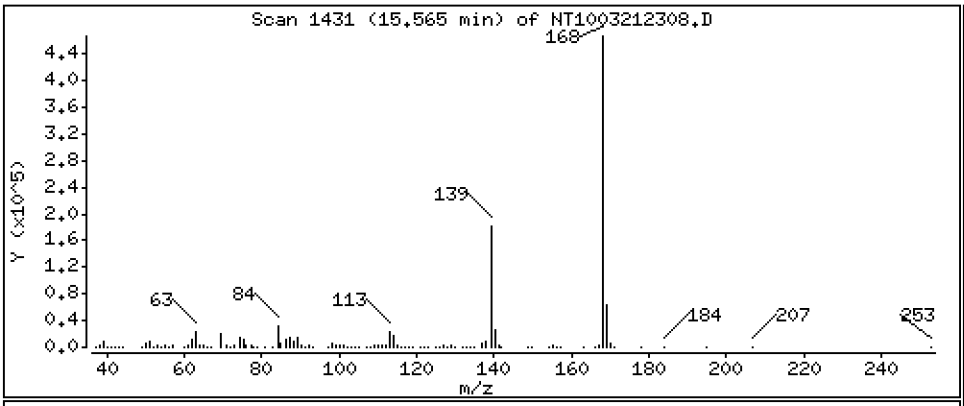
Operator: VTS

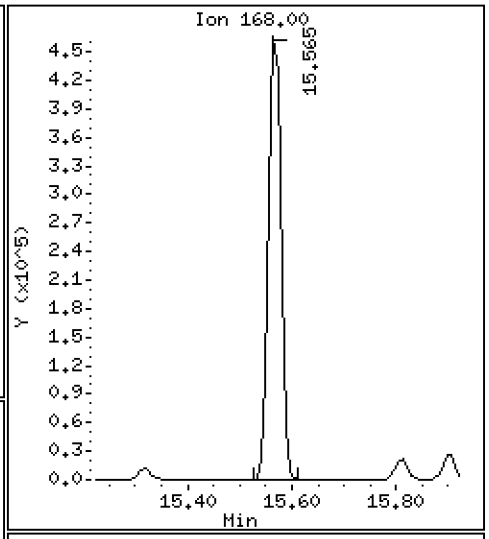
Column phase: ZB-5msi

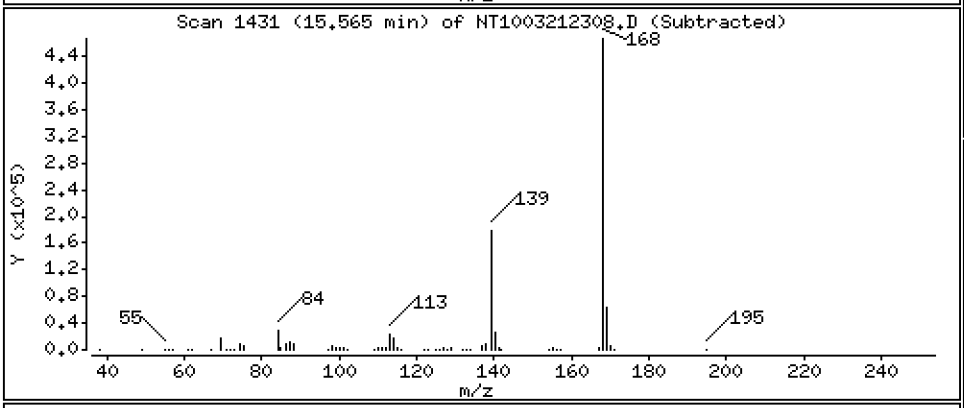
Column diameter: 0.25

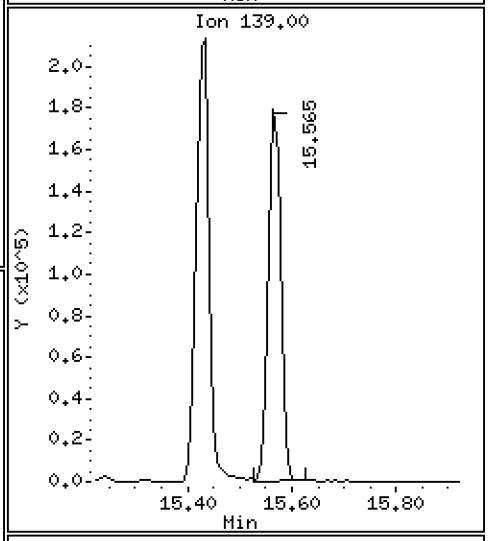
46 Dibenzofuran

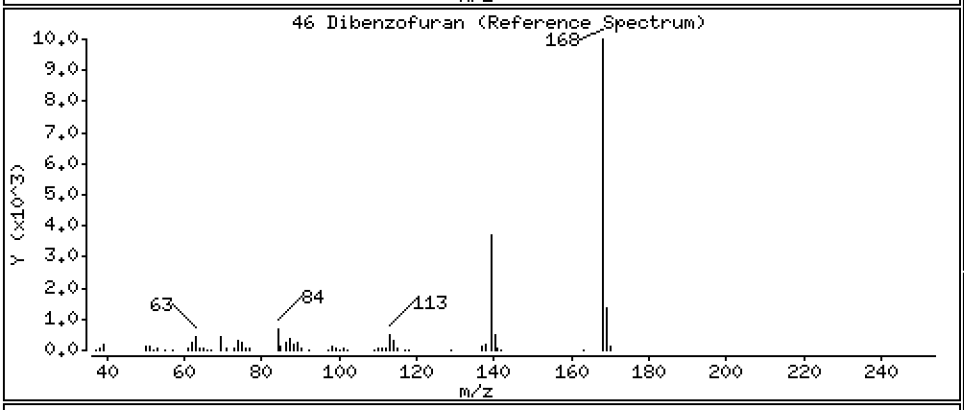
Concentration: 4.268 ug/mL

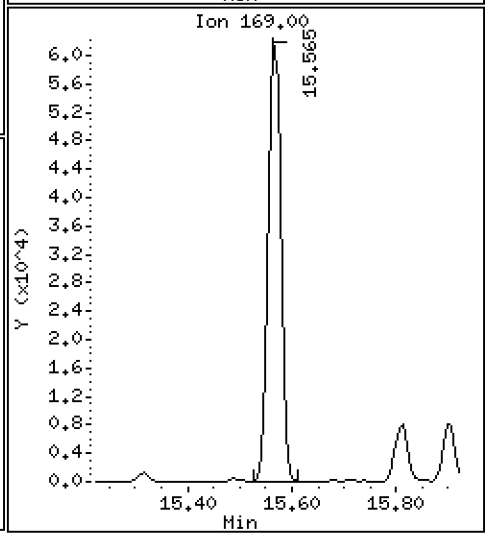


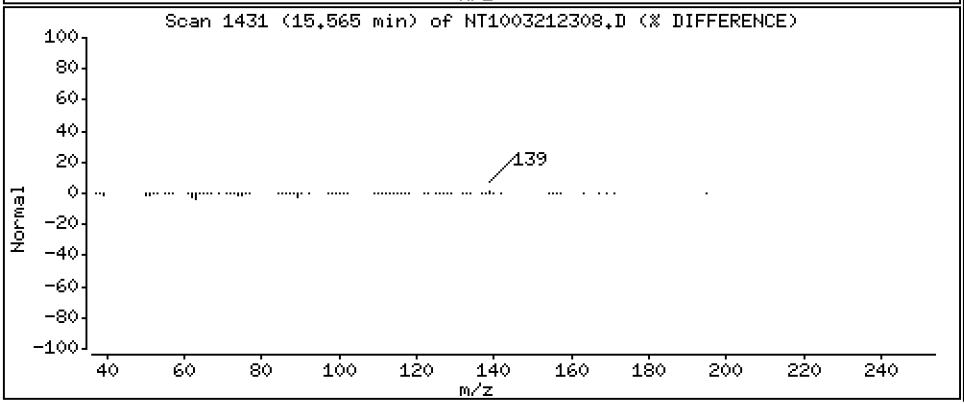












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Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD1

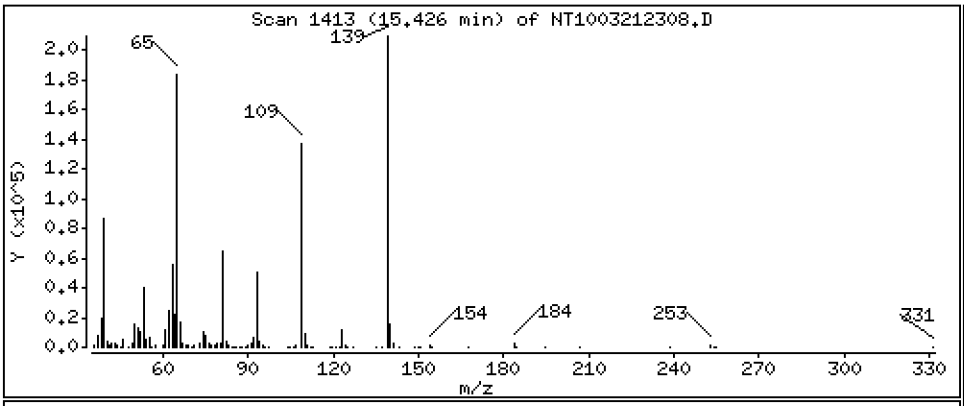
Operator: VTS

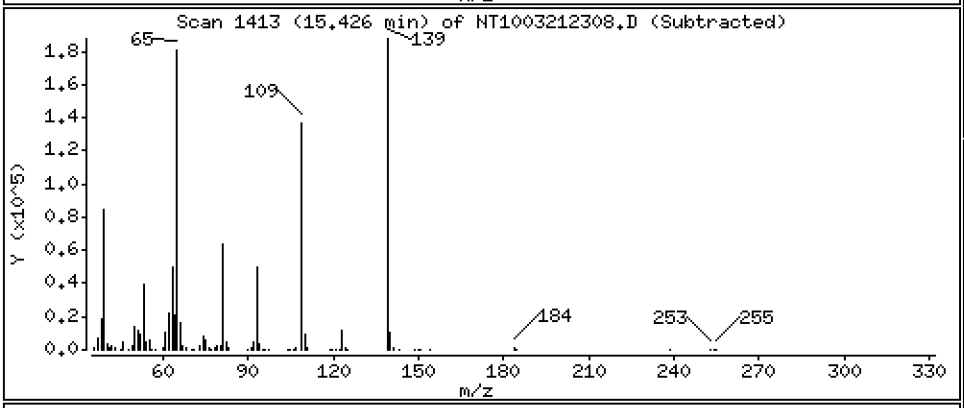
Column phase: ZB-5msi

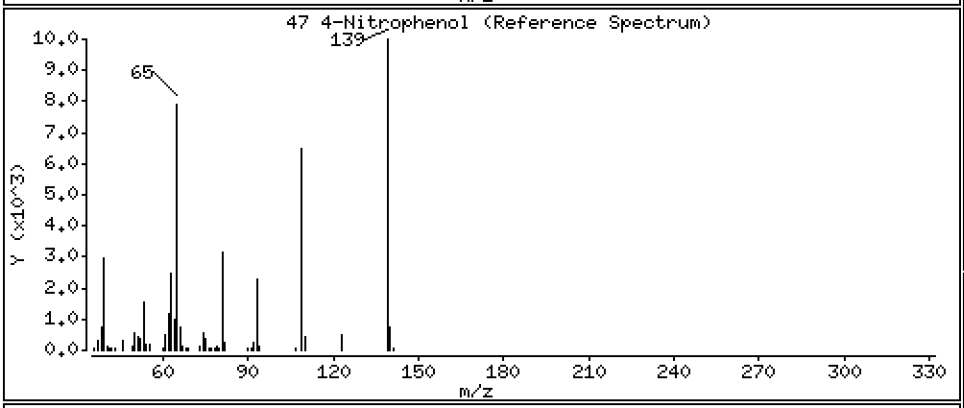
Column diameter: 0.25

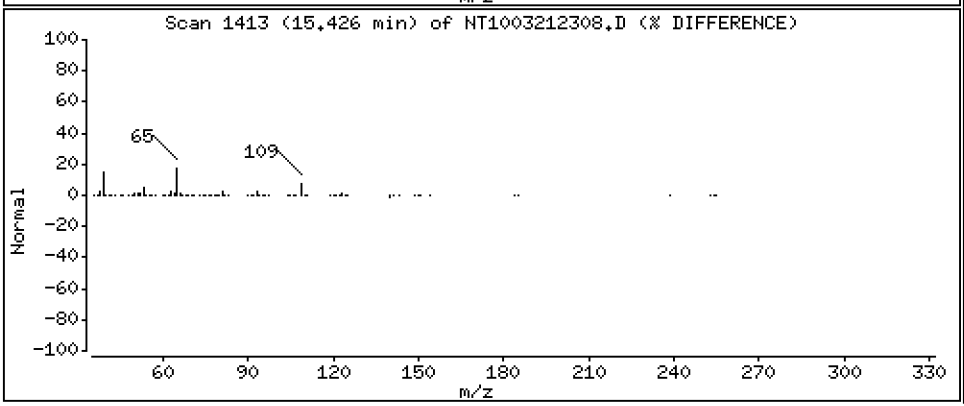
47 4-Nitrophenol

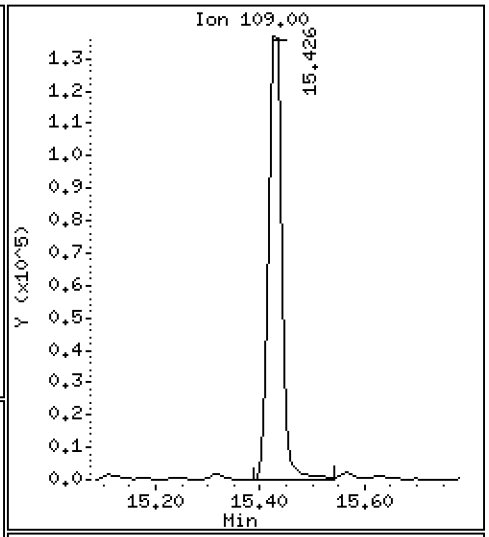
Concentration: 12.01 ug/mL

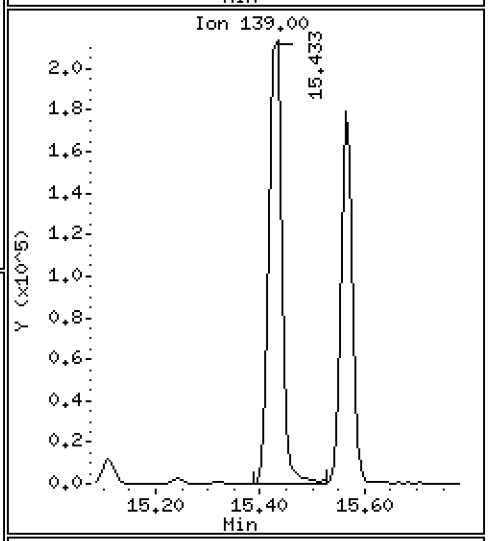


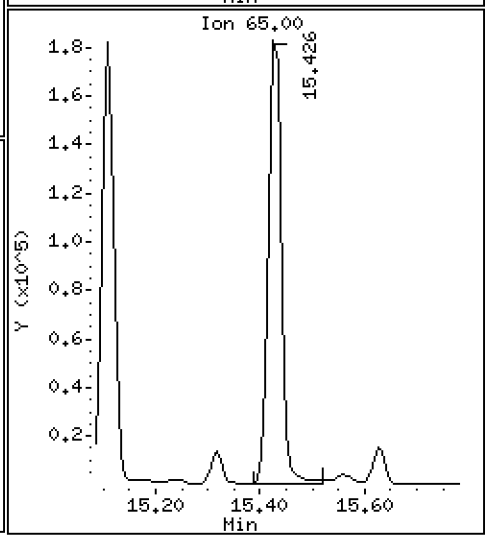












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Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD1

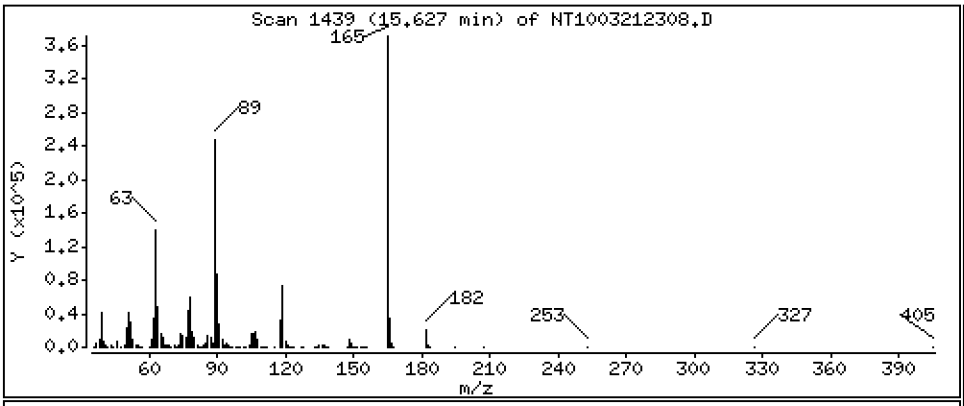
Operator: VTS

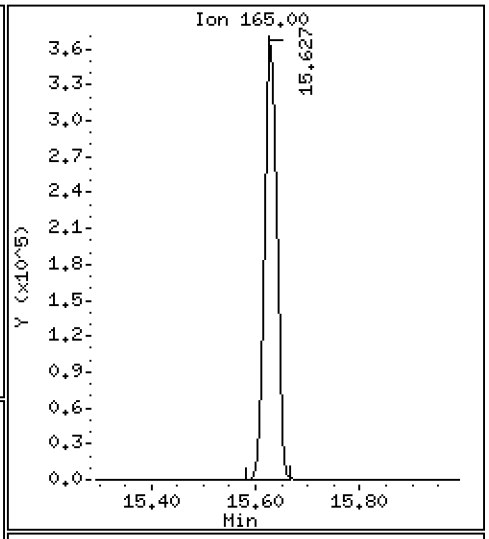
Column phase: ZB-5msi

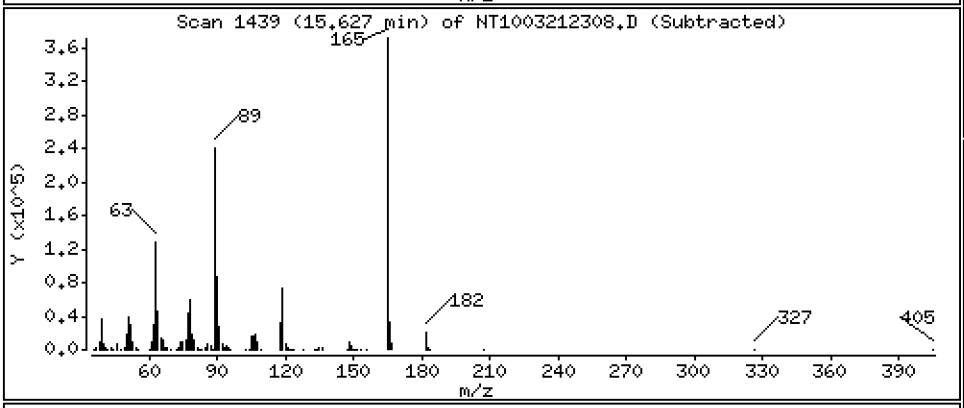
Column diameter: 0.25

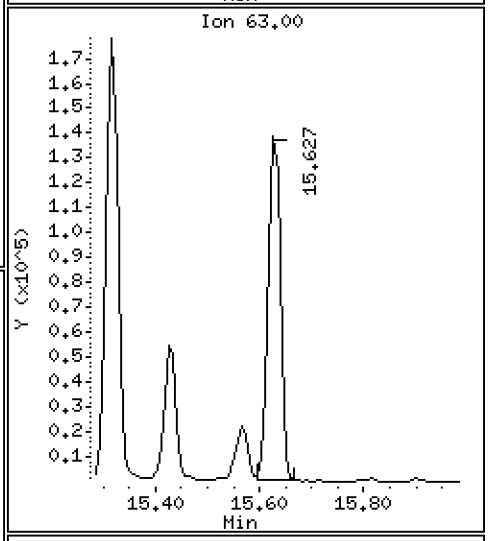
48 2,4-Dinitrotoluene

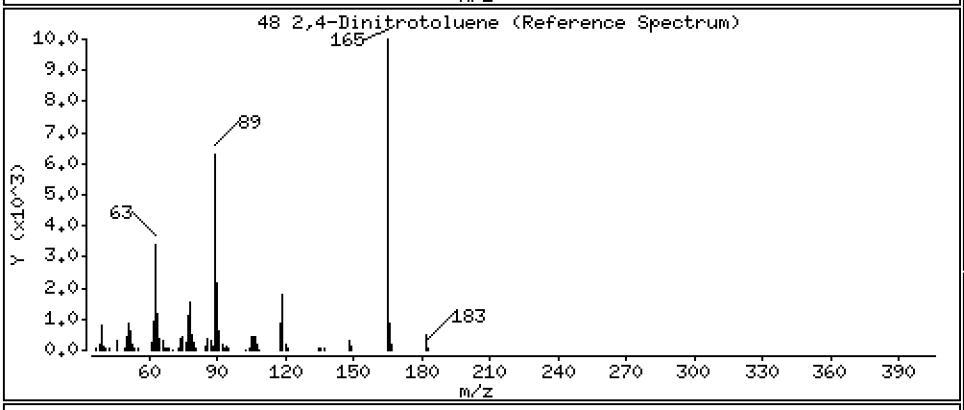
Concentration: 14.62 ug/mL

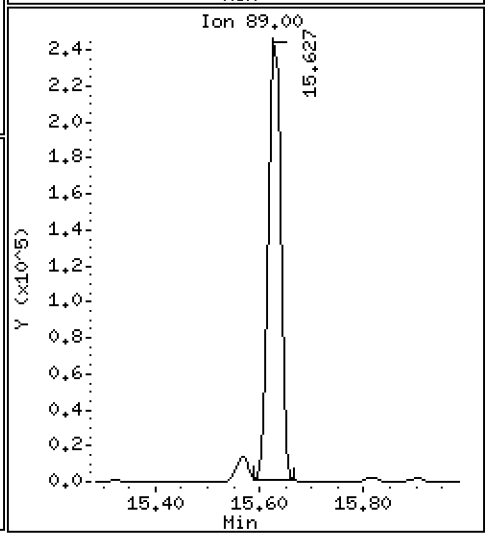


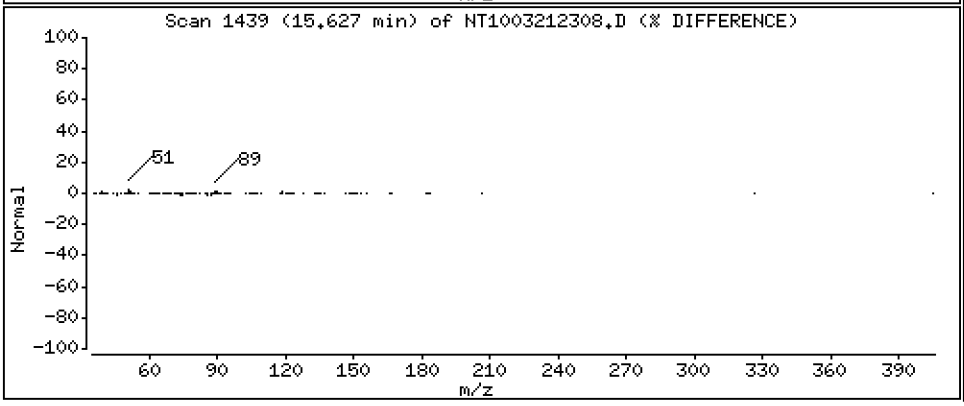












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Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD1

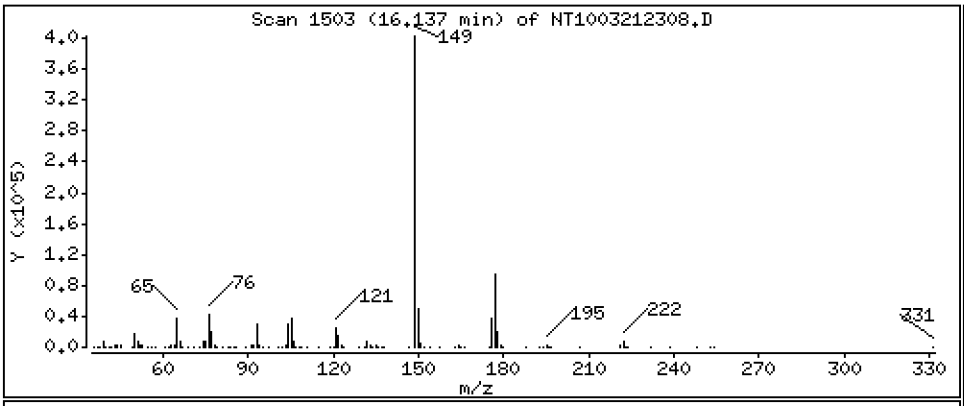
Operator: VTS

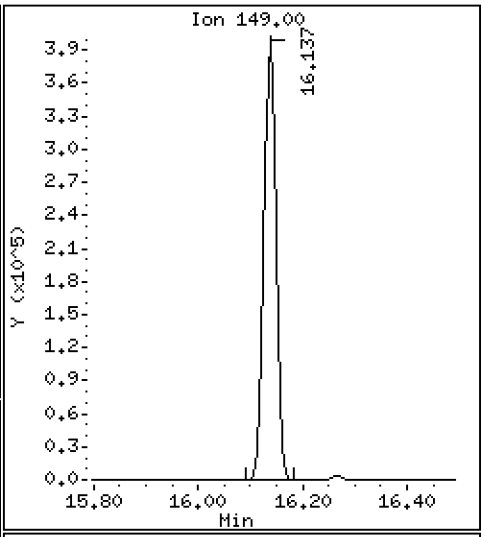
Column phase: ZB-5msi

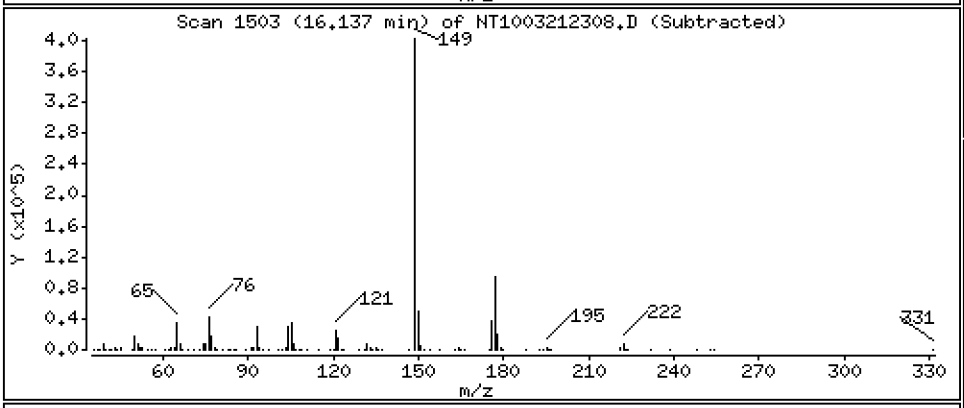
Column diameter: 0.25

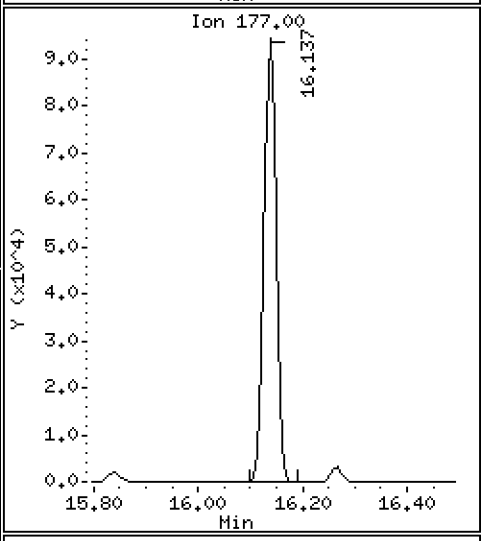
50 Diethylphthalate

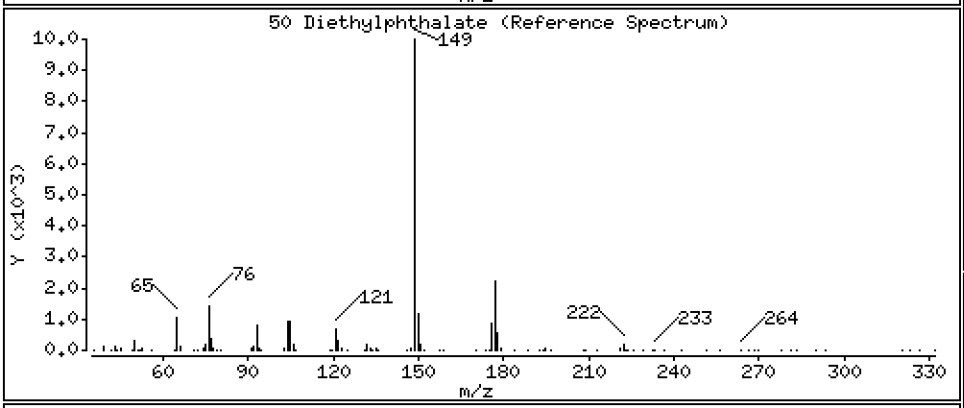
Concentration: 5.013 ug/mL

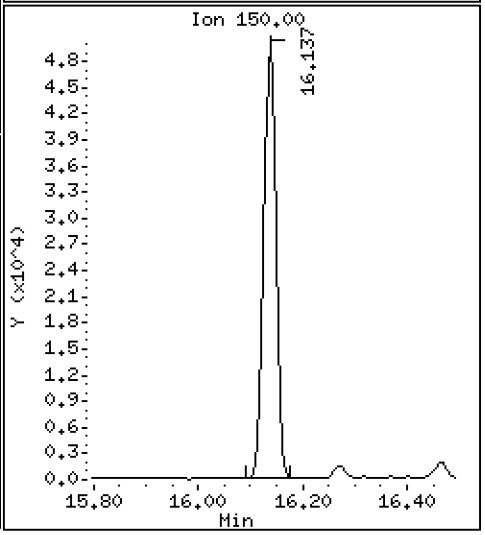


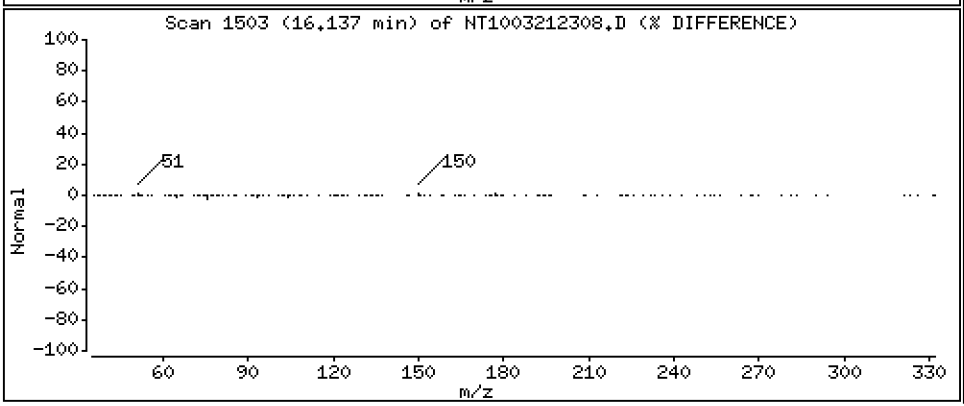












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212308.D

Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD1

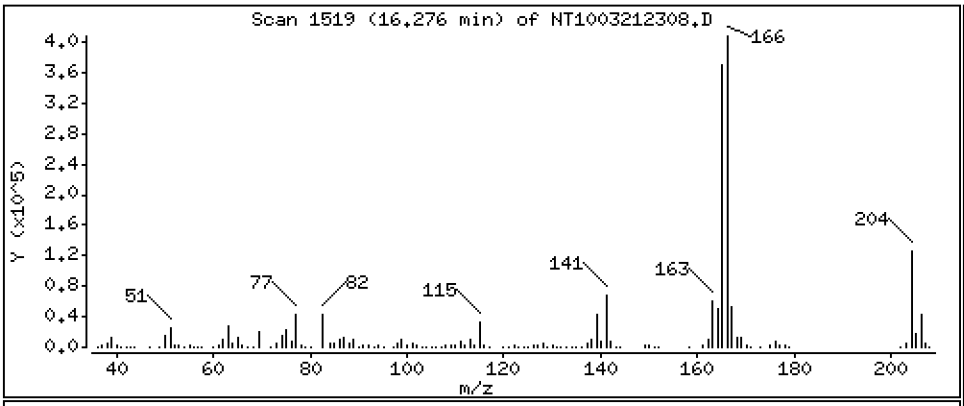
Operator: VTS

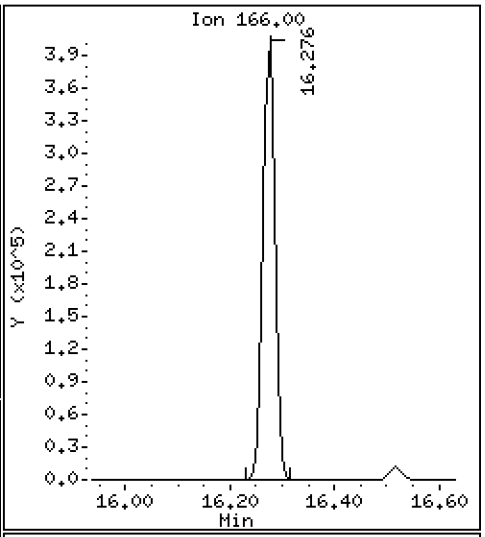
Column phase: ZB-5msi

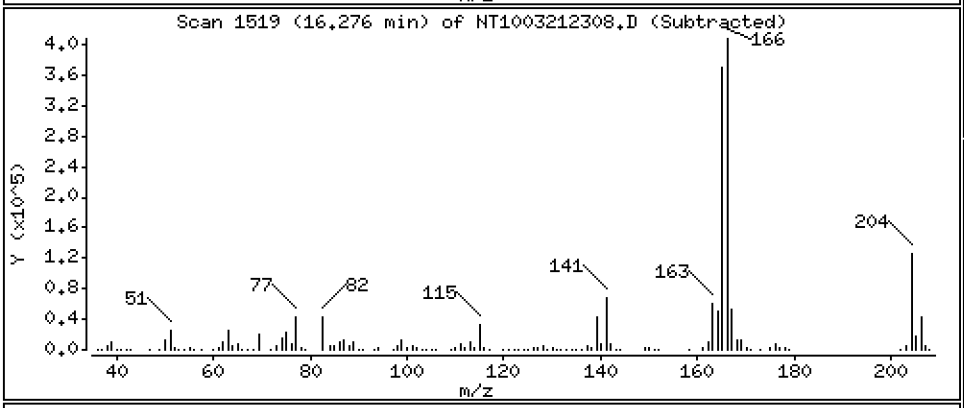
Column diameter: 0.25

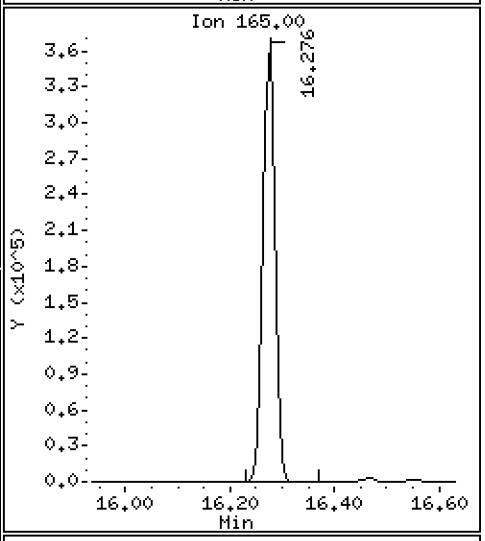
49 Fluorene

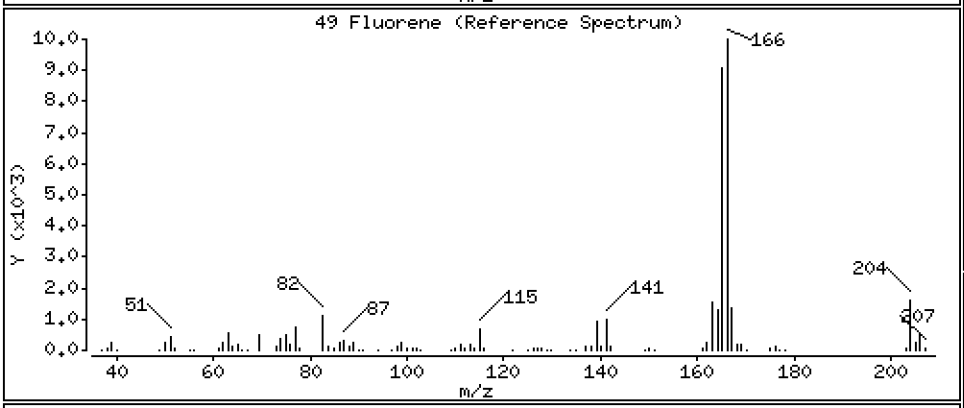
Concentration: 4.458 ug/mL

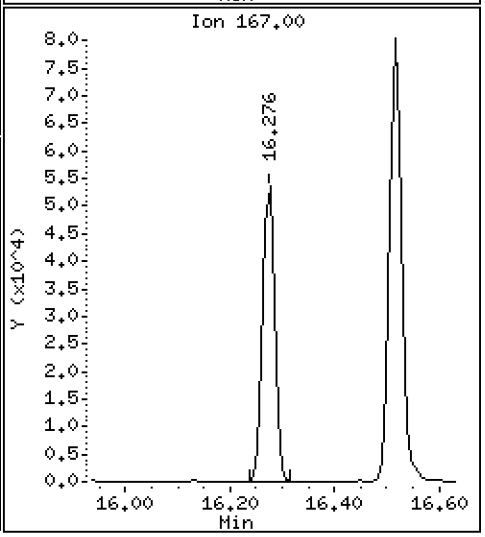


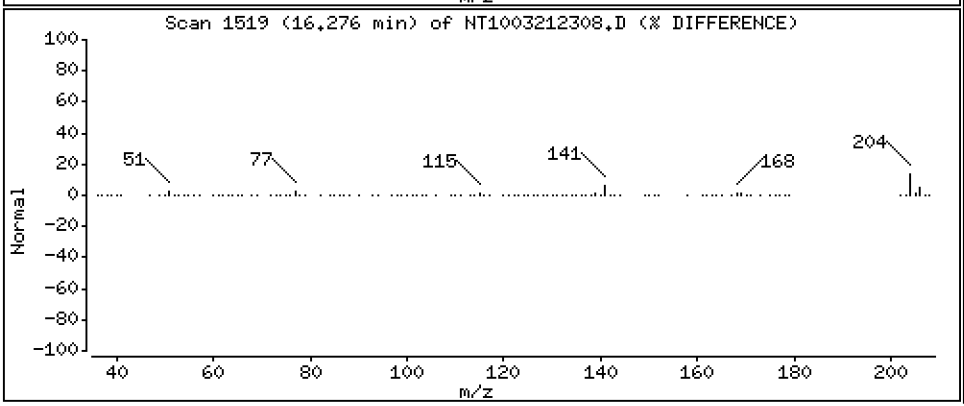












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Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD1

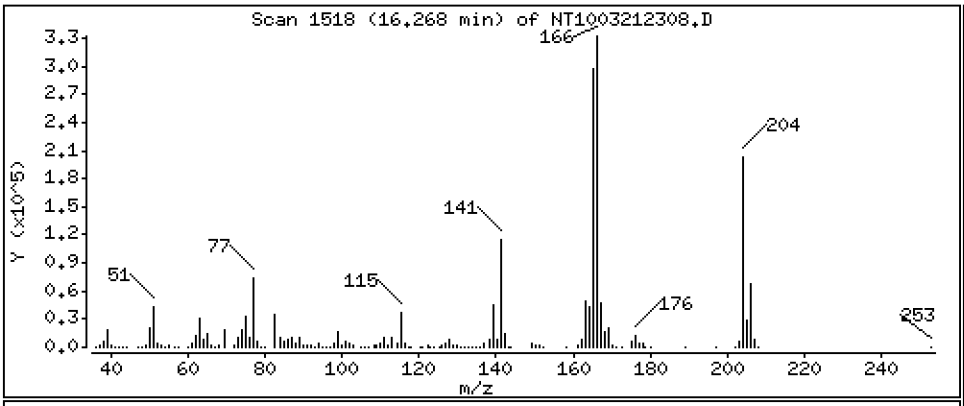
Operator: VTS

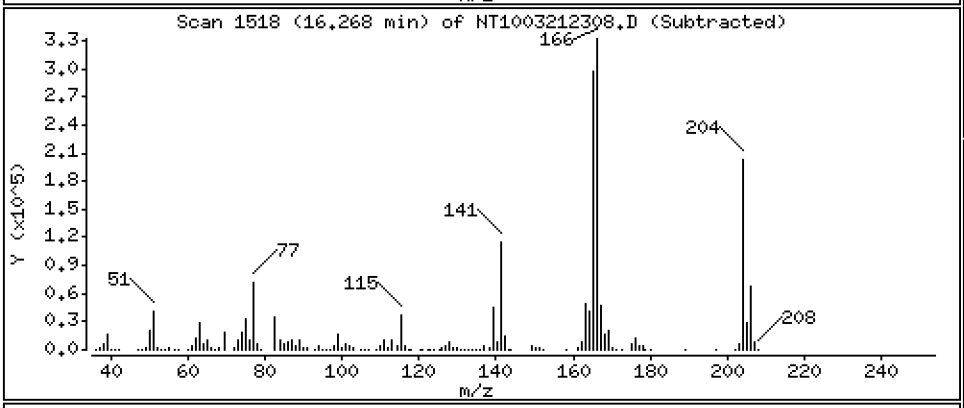
Column phase: ZB-5msi

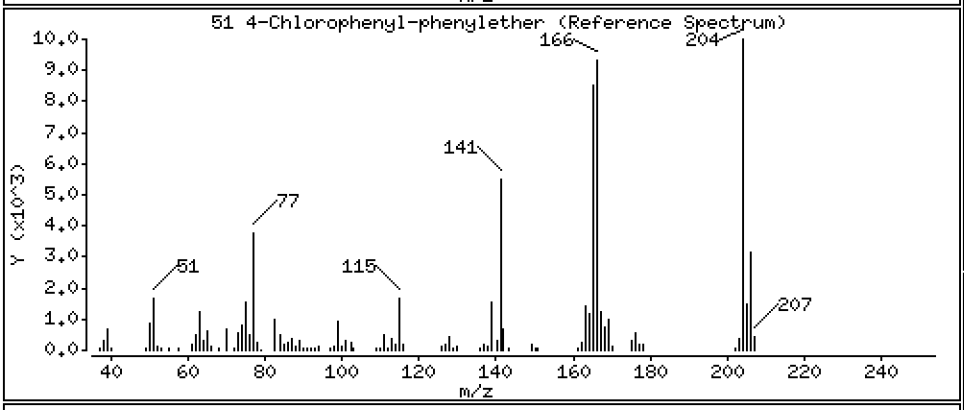
Column diameter: 0.25

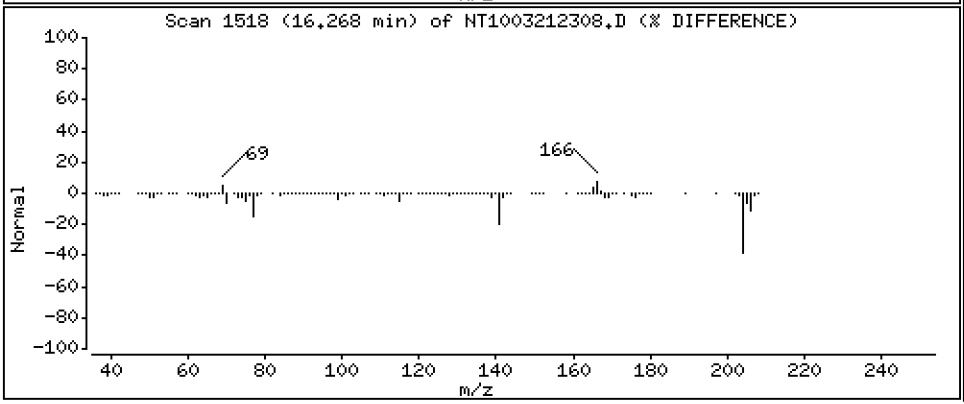
51 4-Chlorophenyl-phenylether

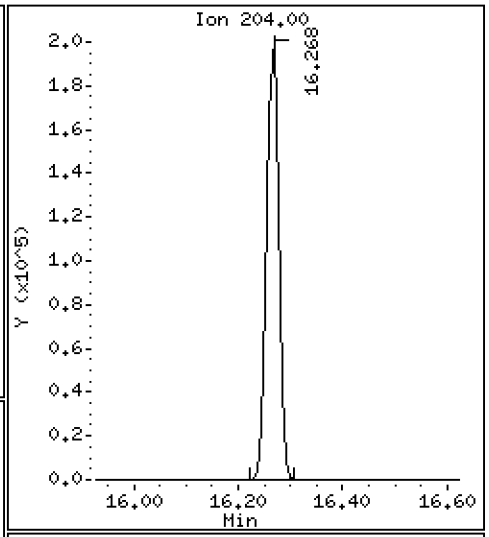
Concentration: 4.685 ug/mL

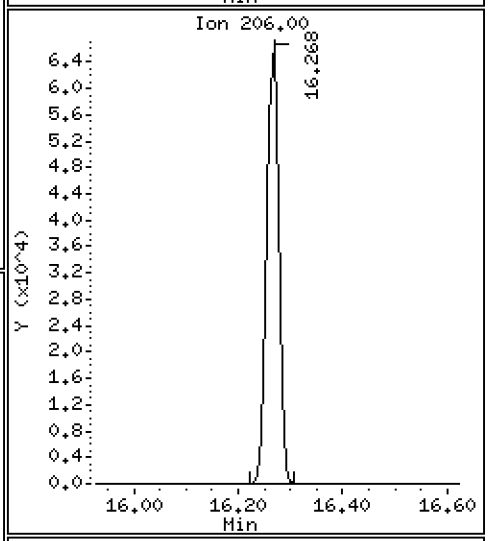


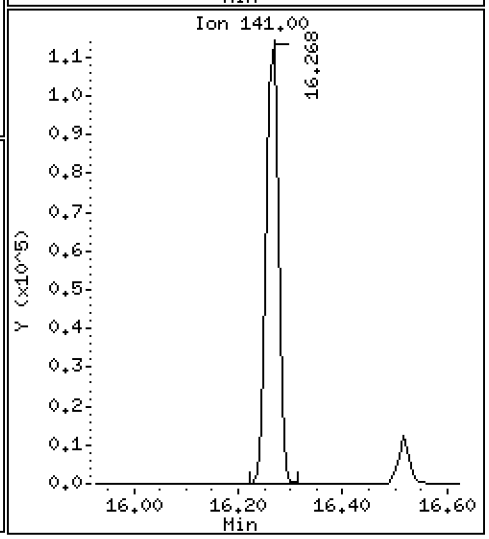












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212308.D

Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD1

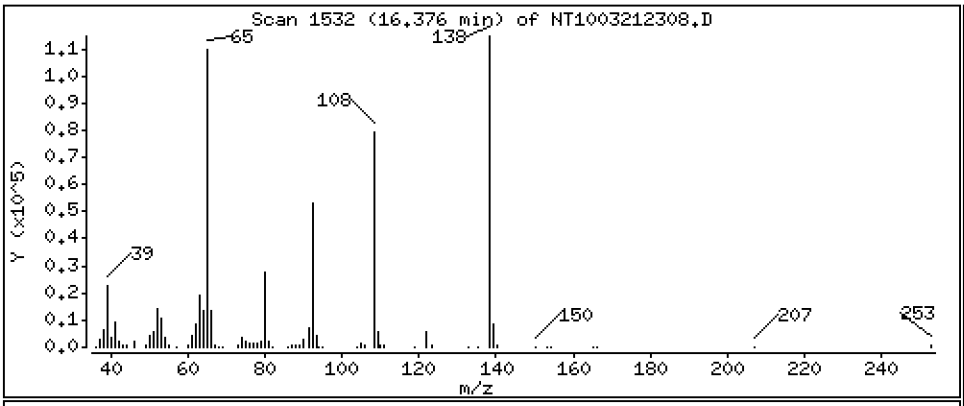
Operator: VTS

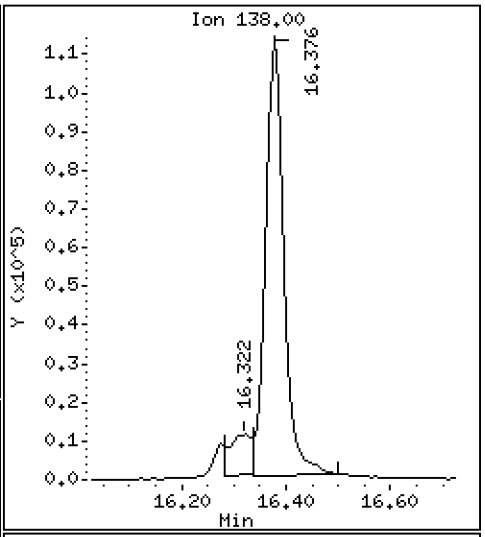
Column phase: ZB-5msi

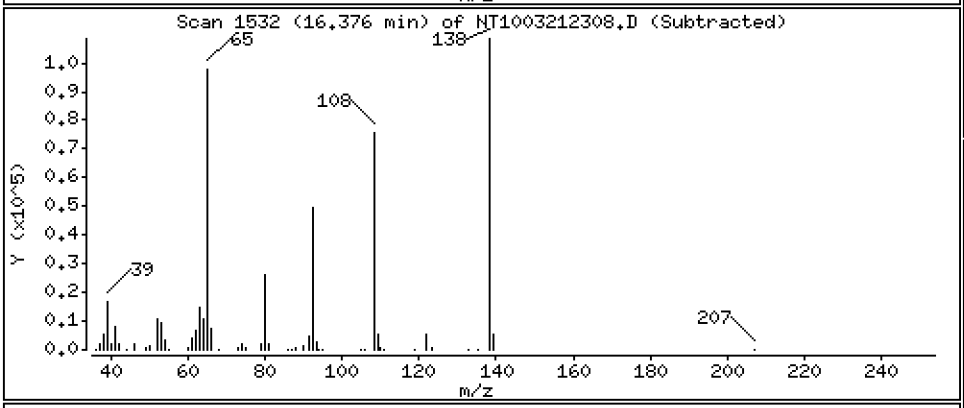
Column diameter: 0.25

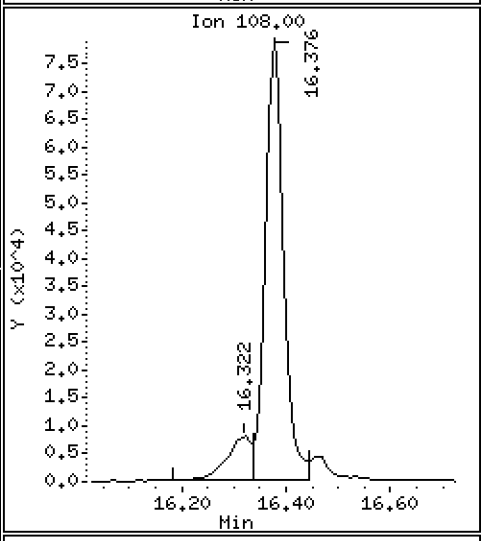
52 4-Nitroaniline

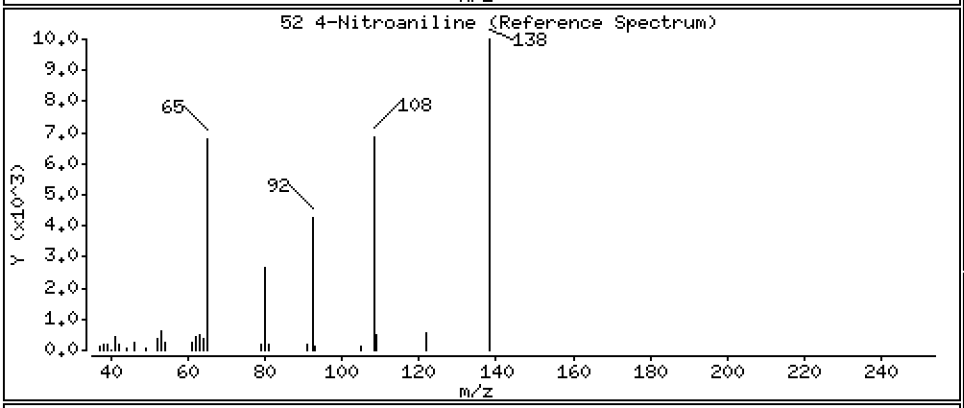
Concentration: 9.858 ug/mL

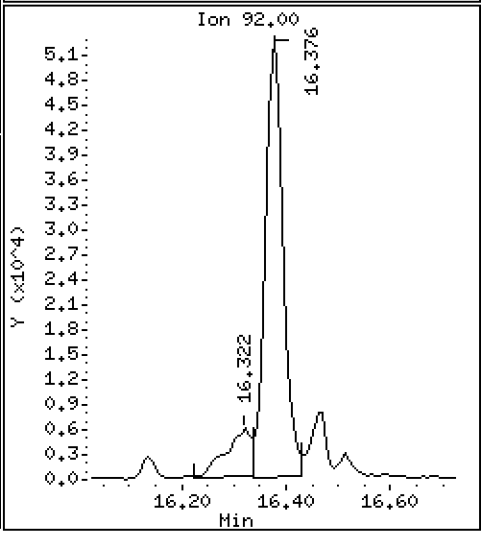


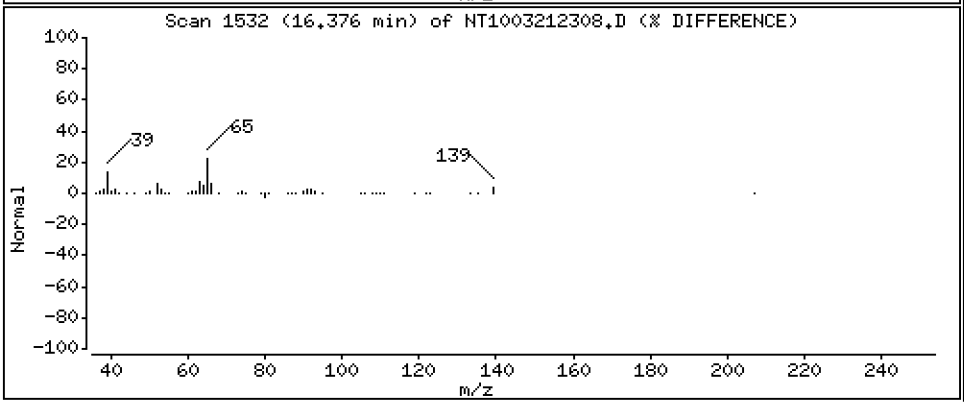












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212308.D

Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD1

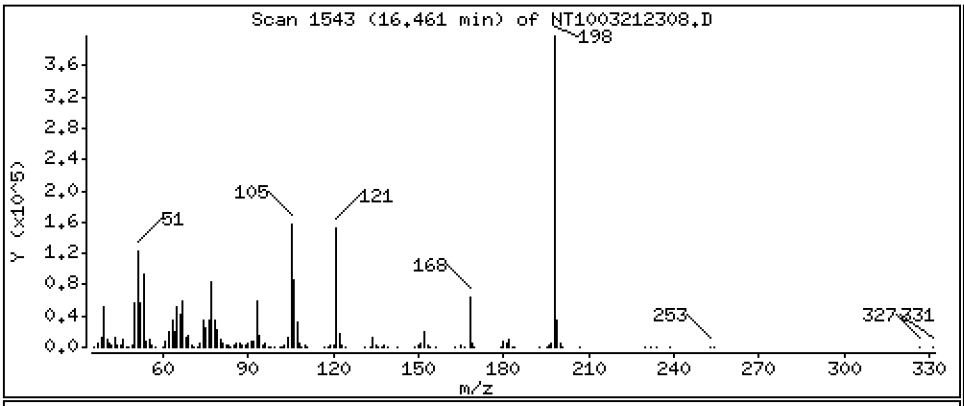
Operator: VTS

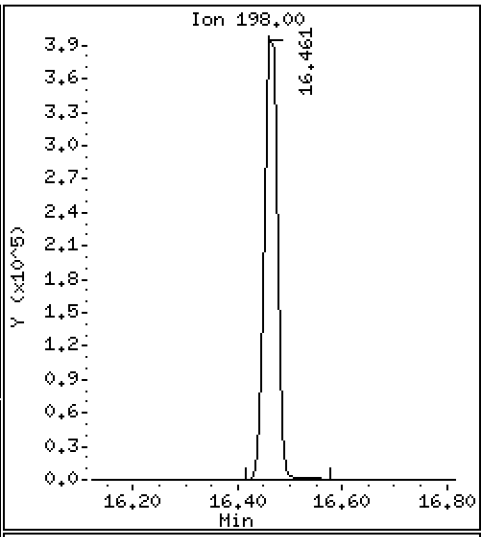
Column phase: ZB-5msi

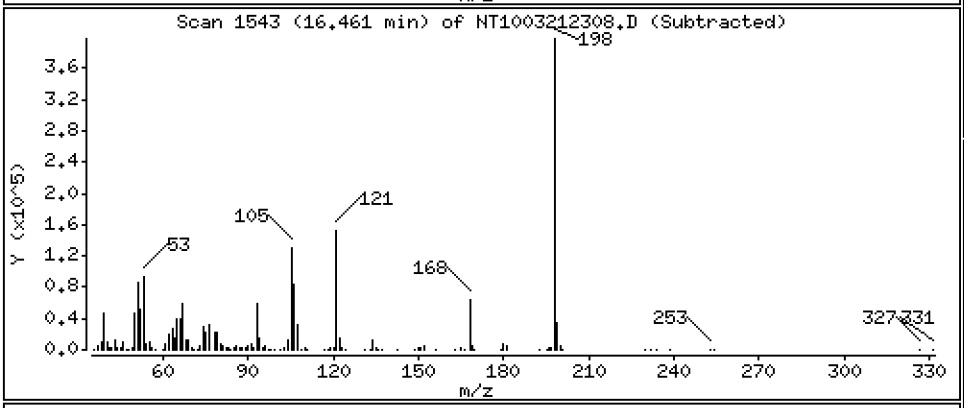
Column diameter: 0.25

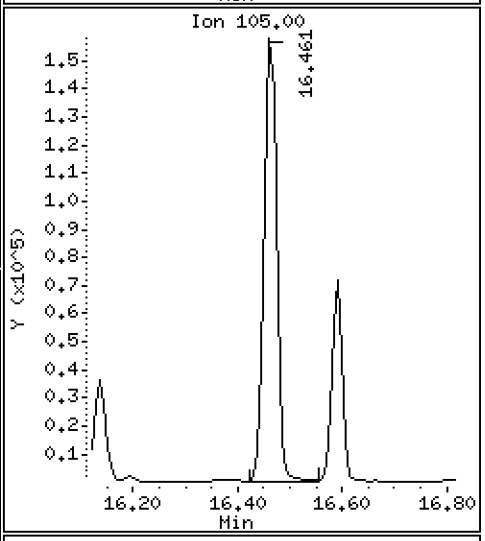
53 4,6-Dinitro-2-methylphenol

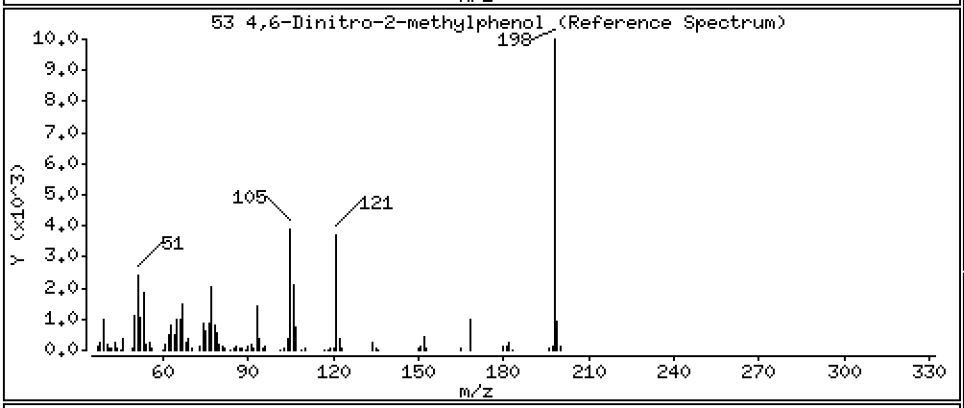
Concentration: 30.24 ug/mL

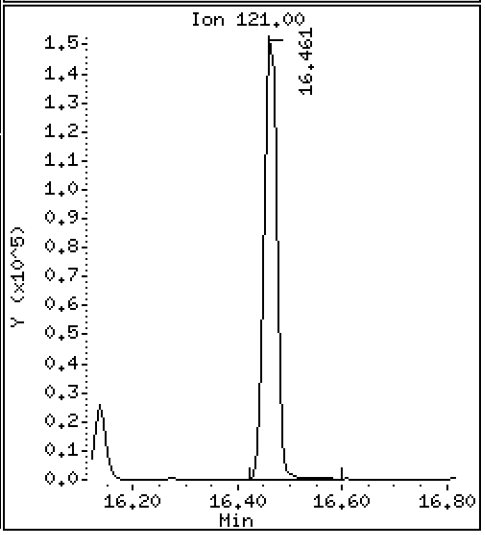


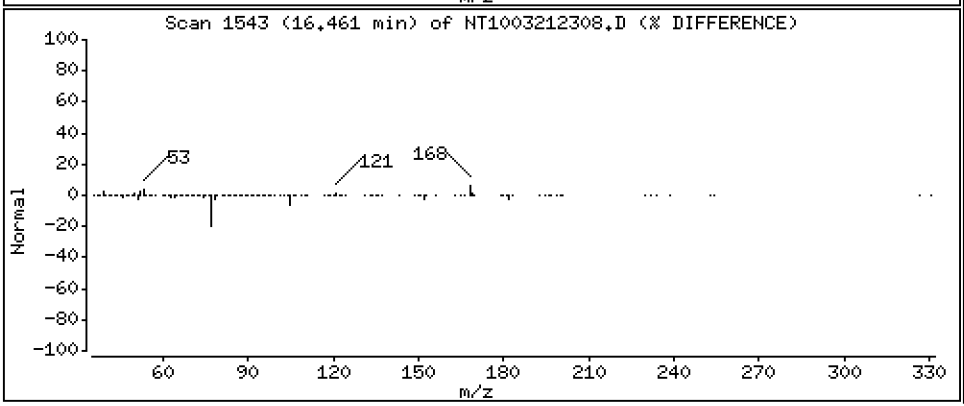












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Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD1

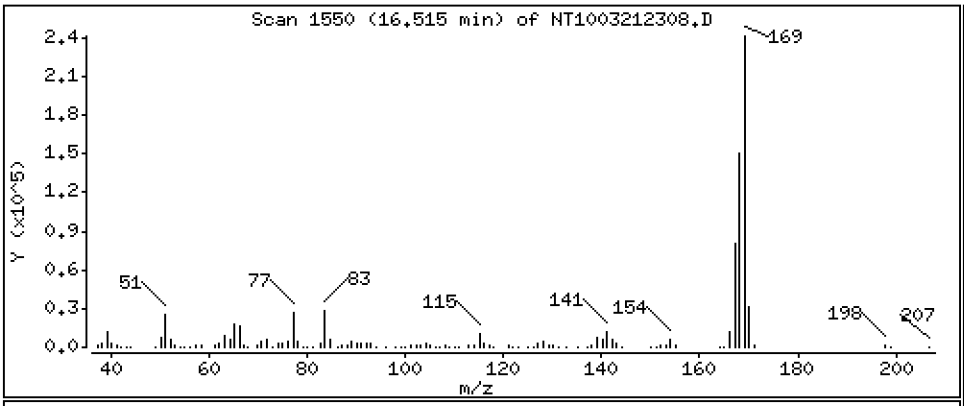
Operator: VTS

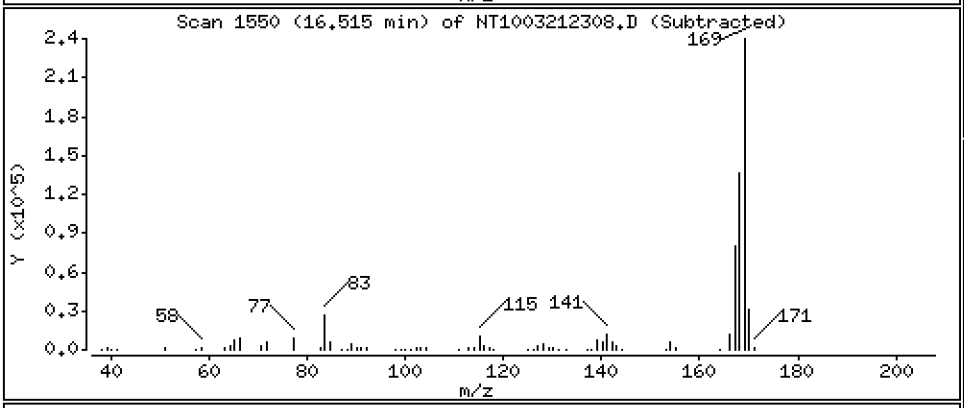
Column phase: ZB-5msi

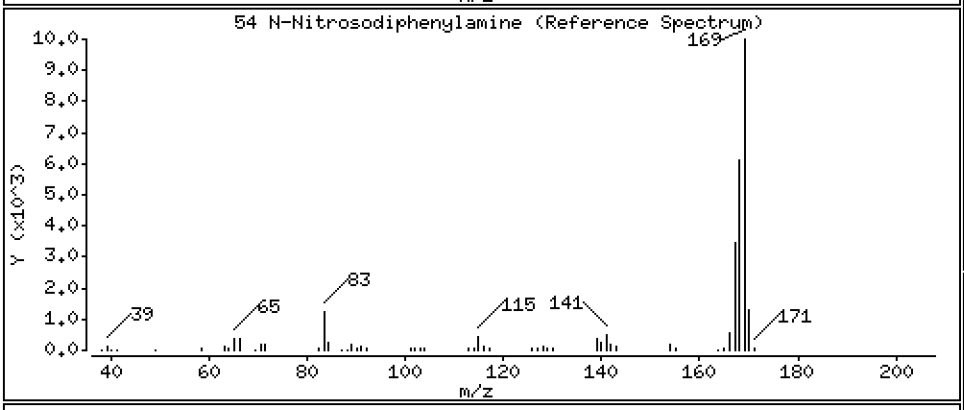
Column diameter: 0.25

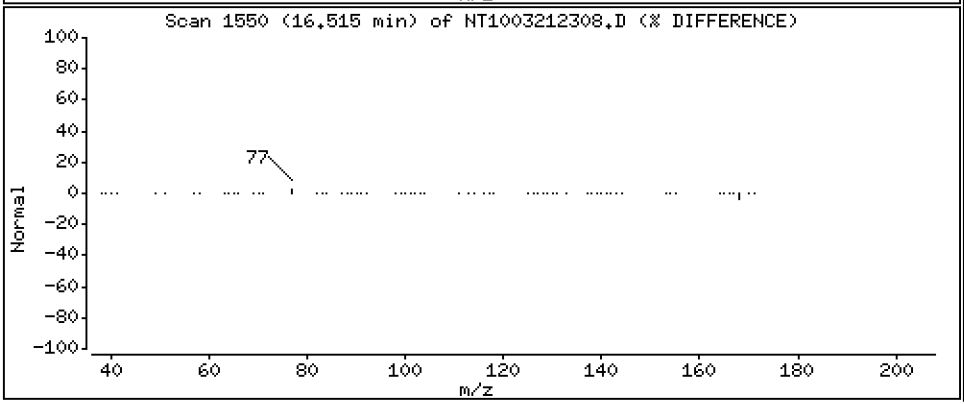
54 N-Nitrosodiphenylamine

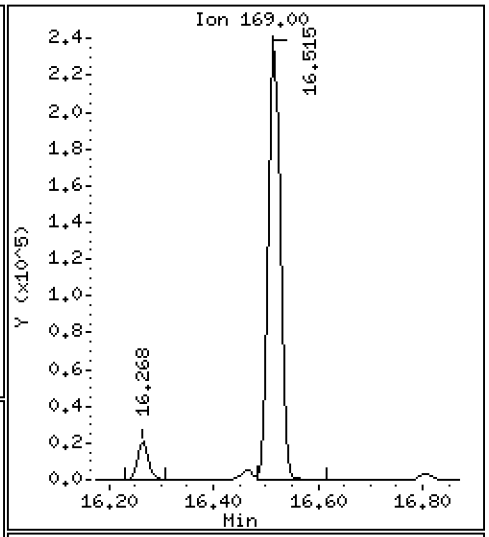
Concentration: 3.888 ug/mL

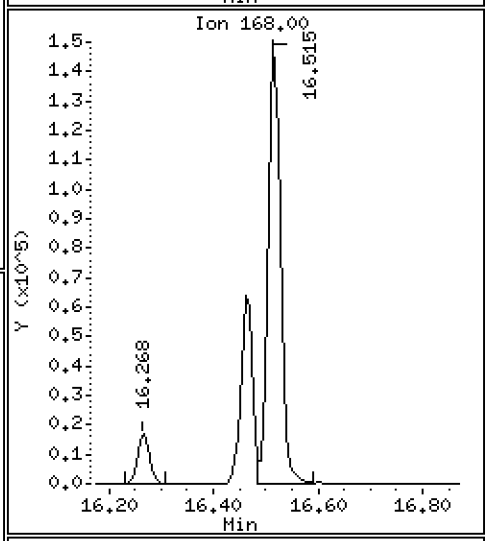


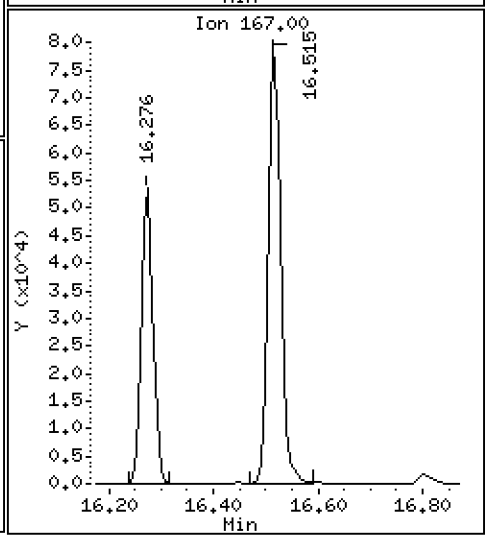












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Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD1

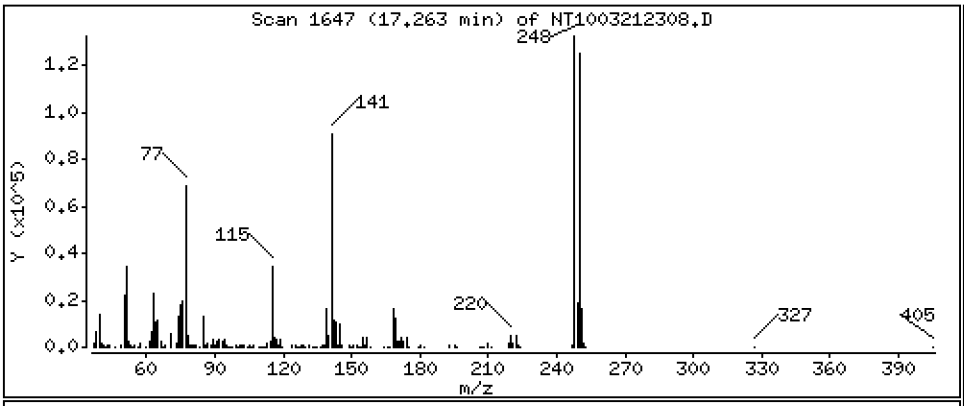
Operator: VTS

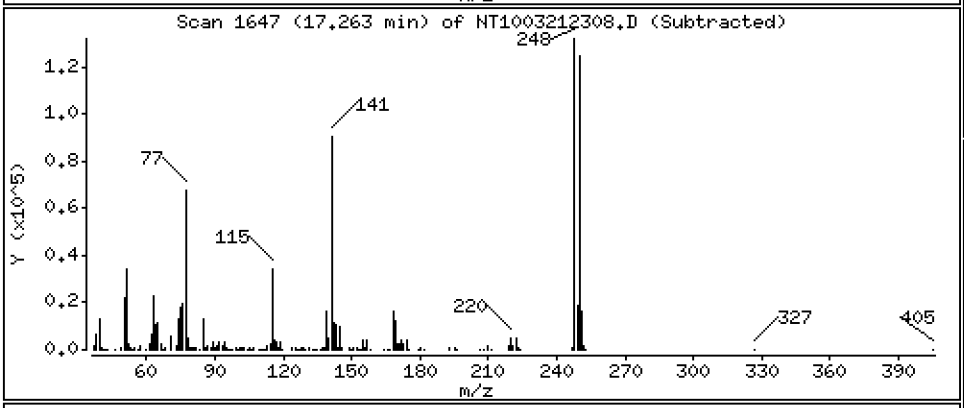
Column phase: ZB-5msi

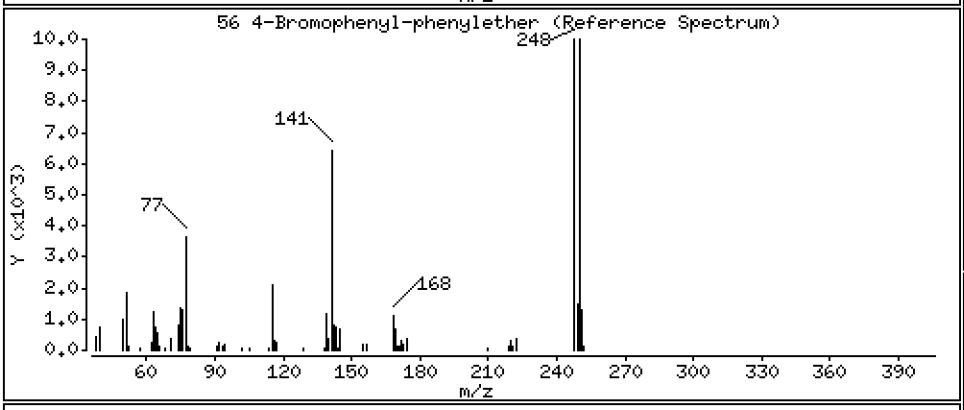
Column diameter: 0.25

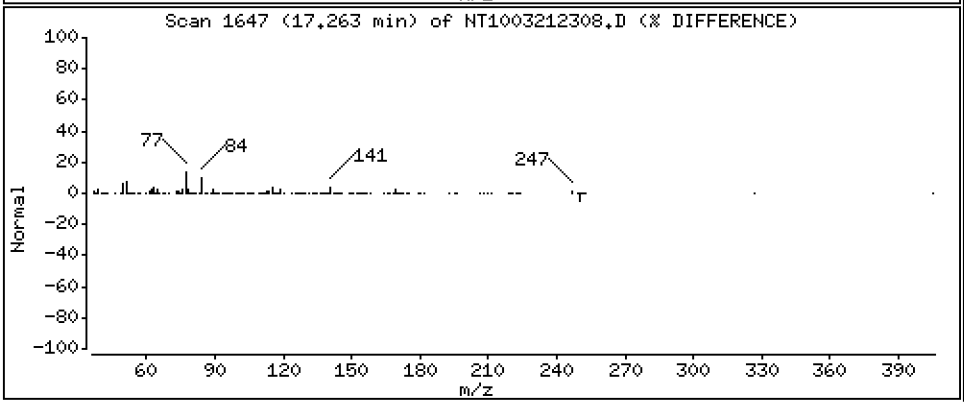
56 4-Bromophenyl-phenylether

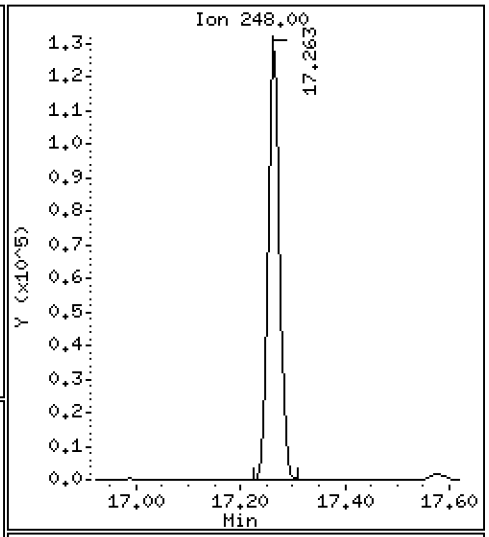
Concentration: 5.181 ug/mL

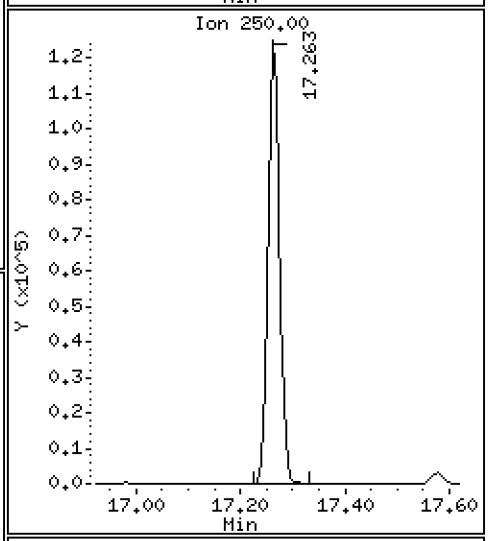


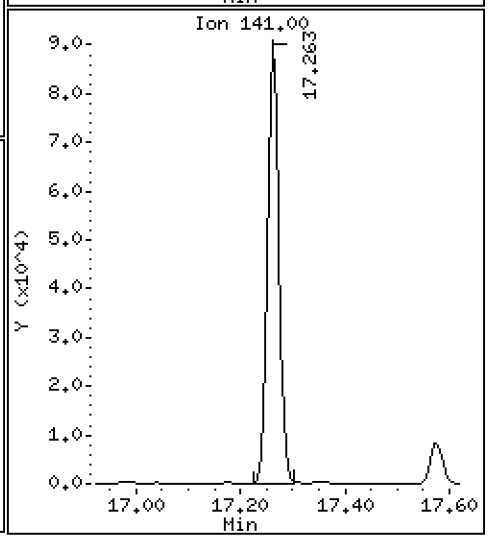












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Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD1

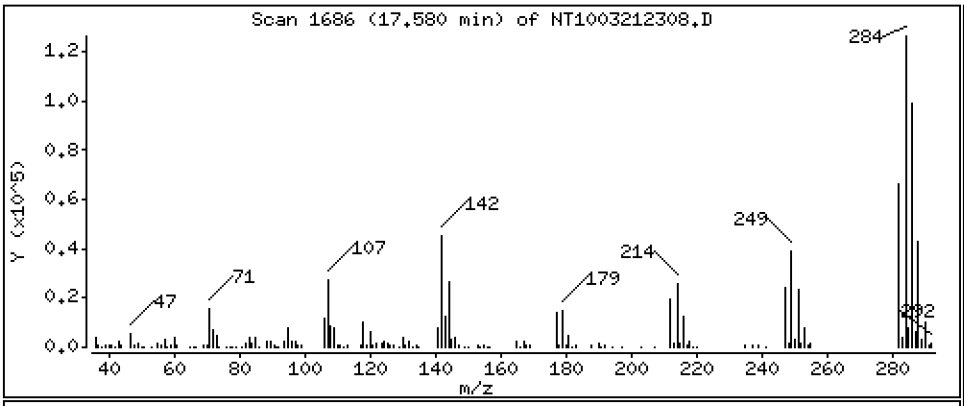
Operator: VTS

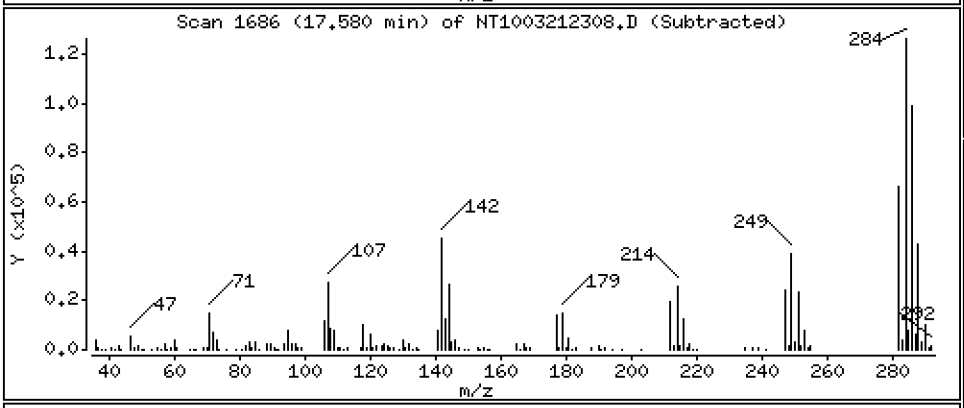
Column phase: ZB-5msi

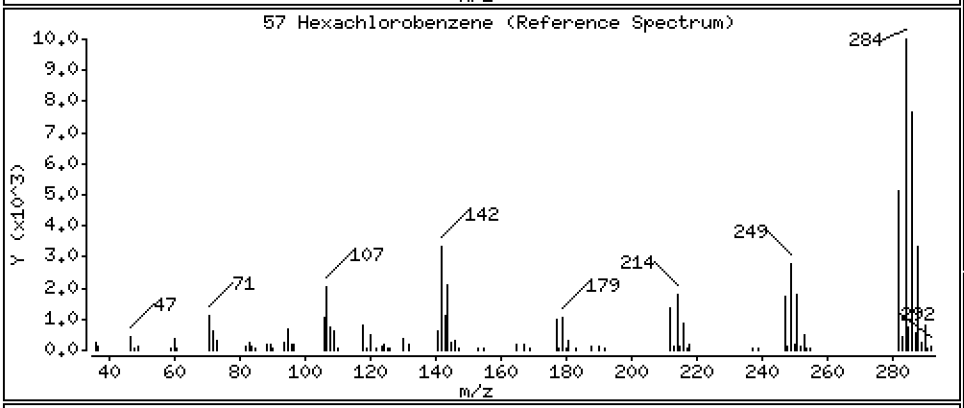
Column diameter: 0.25

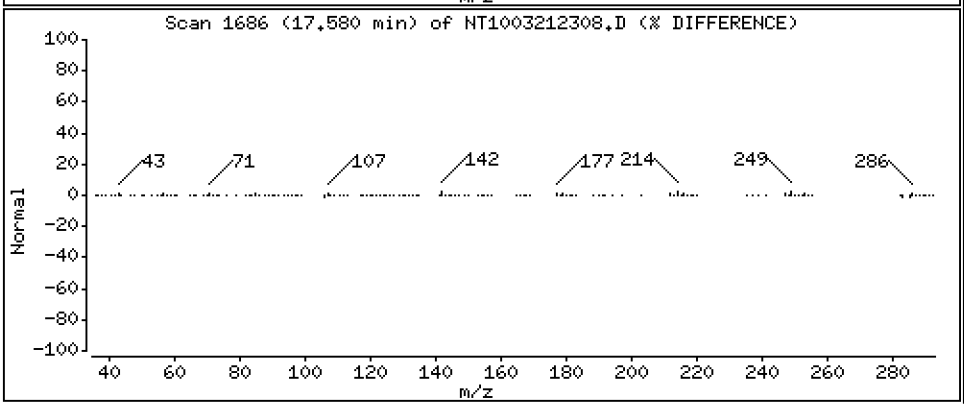
57 Hexachlorobenzene

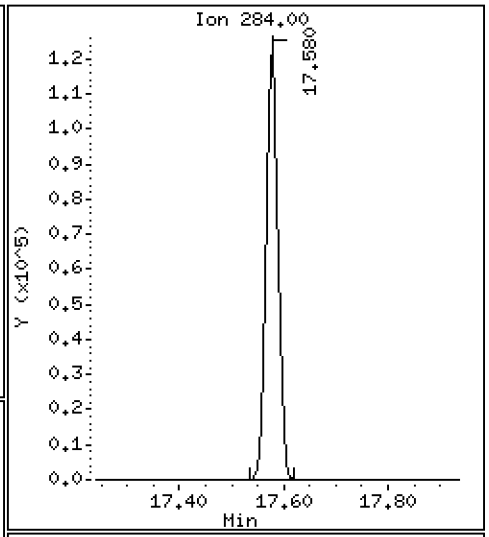
Concentration: 4.815 ug/mL

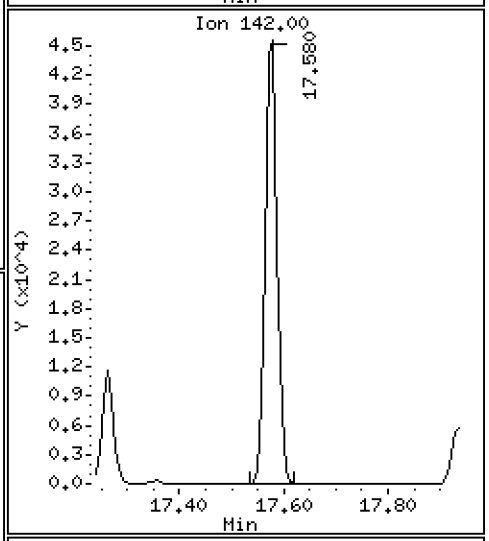


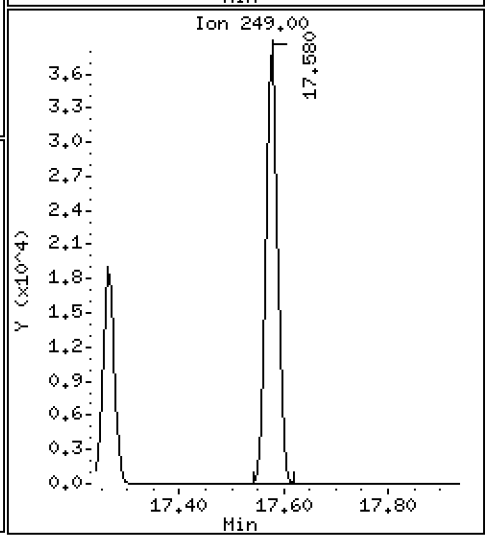












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212308.D

Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD1

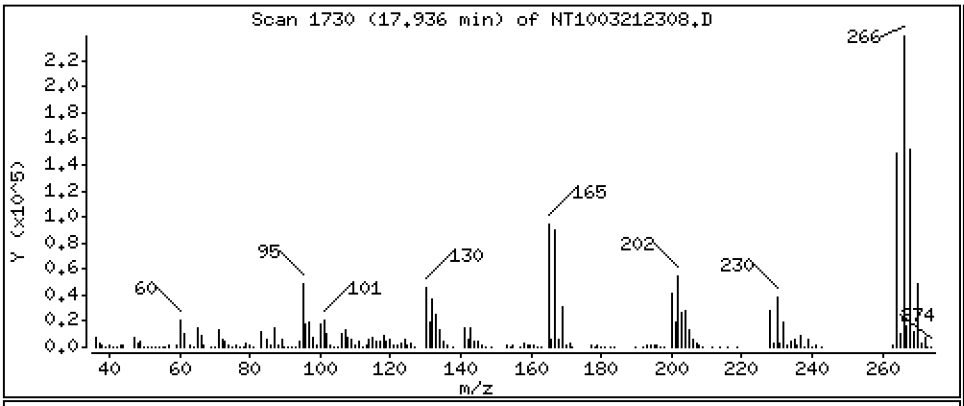
Operator: VTS

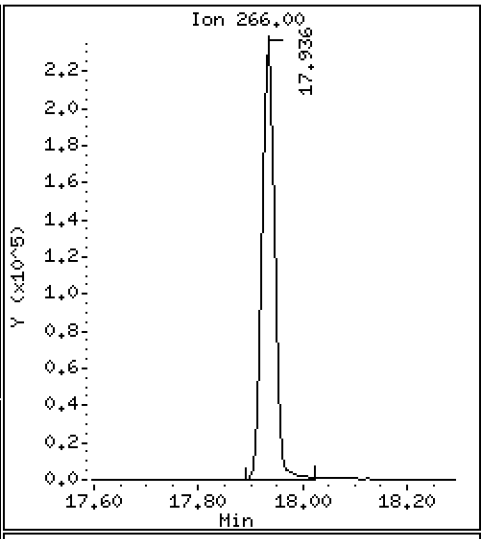
Column phase: ZB-5msi

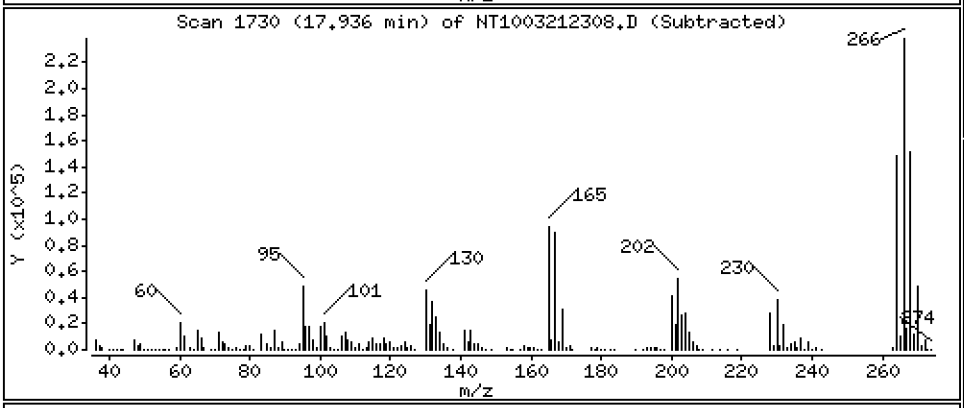
Column diameter: 0.25

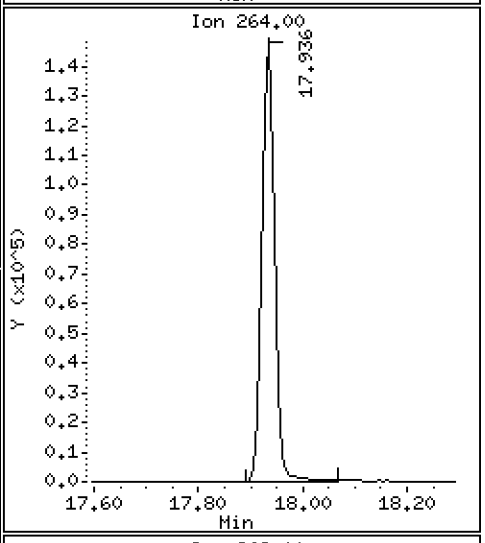
58 Pentachlorophenol

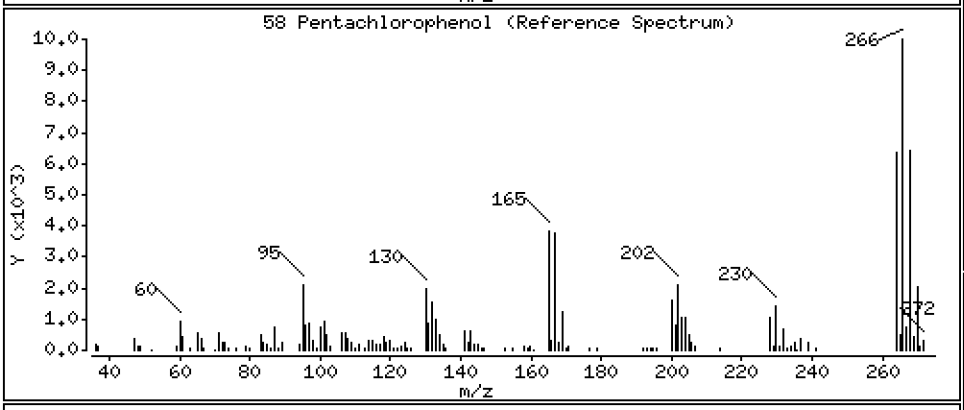
Concentration: 15.44 ug/mL

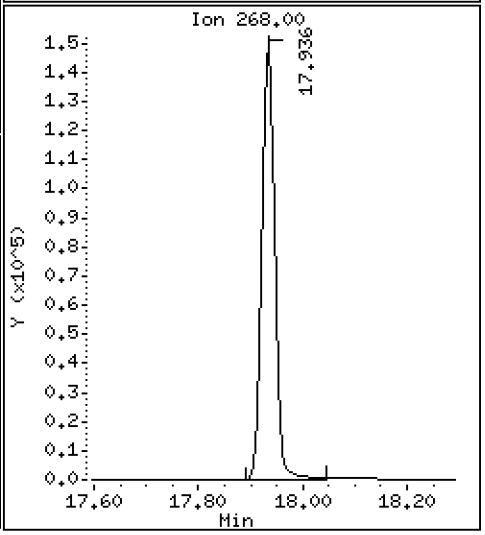


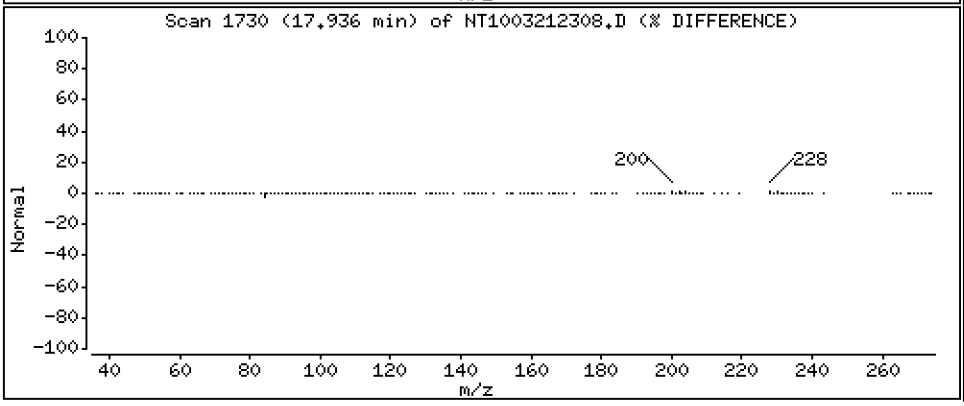












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Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD1

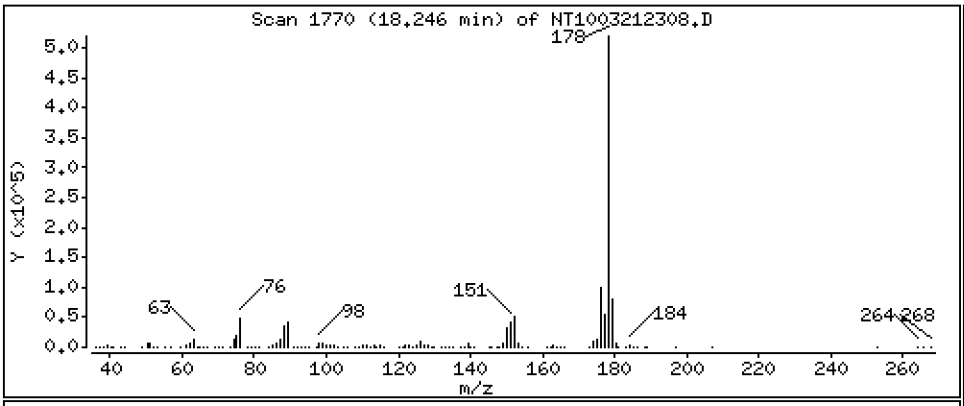
Operator: VTS

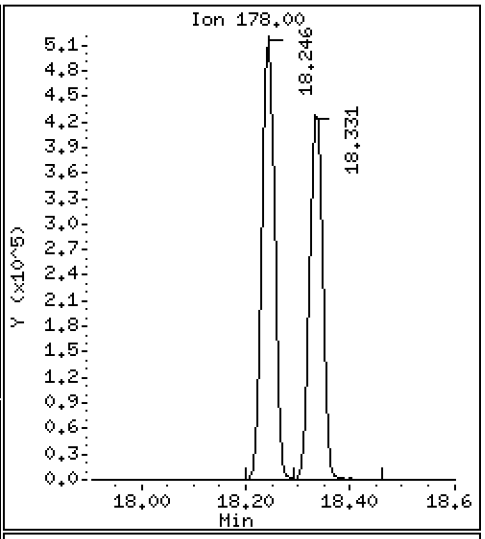
Column phase: ZB-5msi

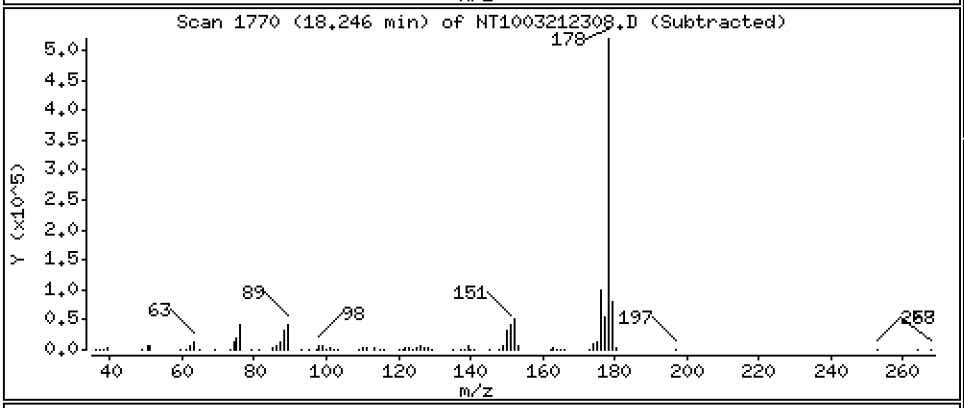
Column diameter: 0.25

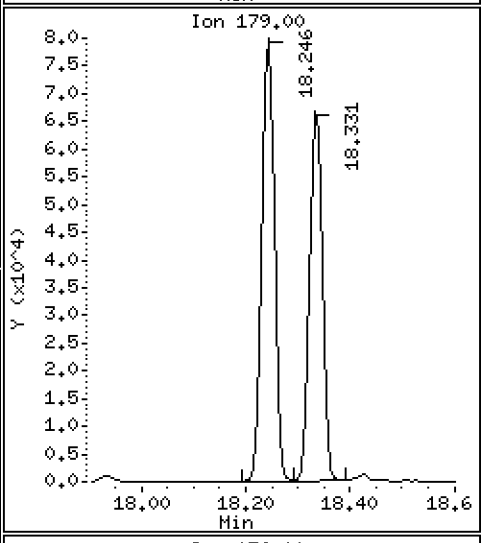
60 Phenanthrene

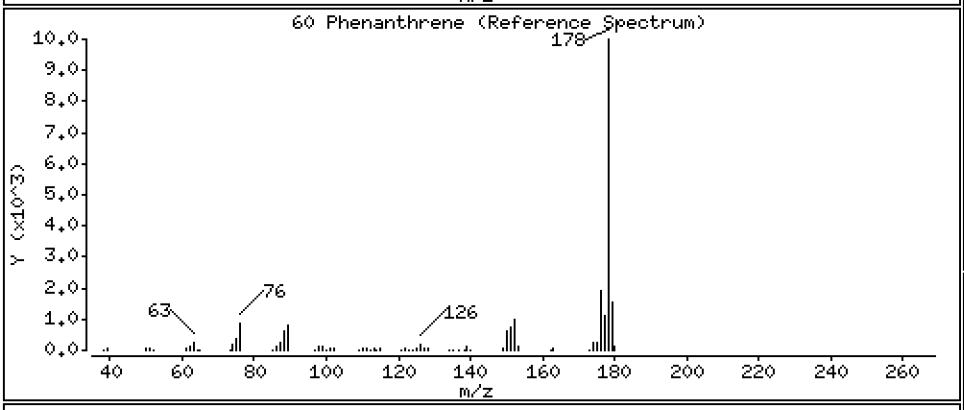
Concentration: 4.438 ug/mL

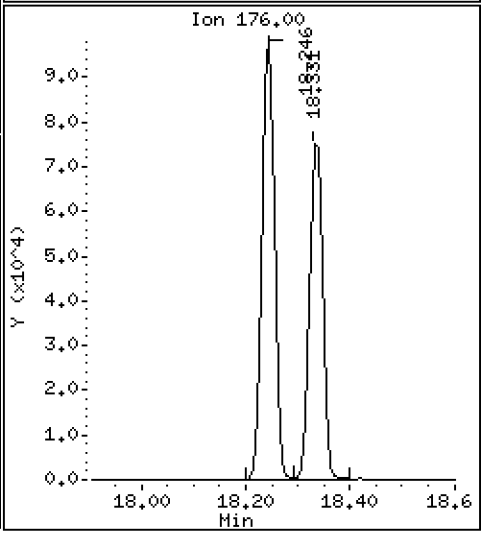


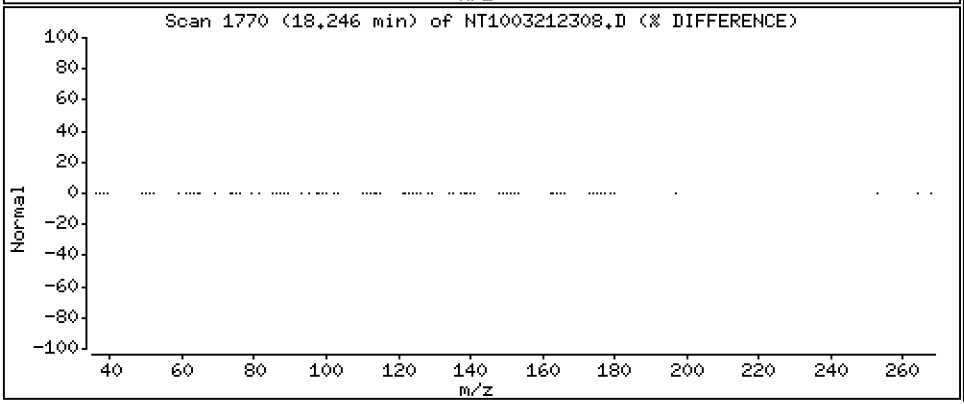












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212308.D

Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD1

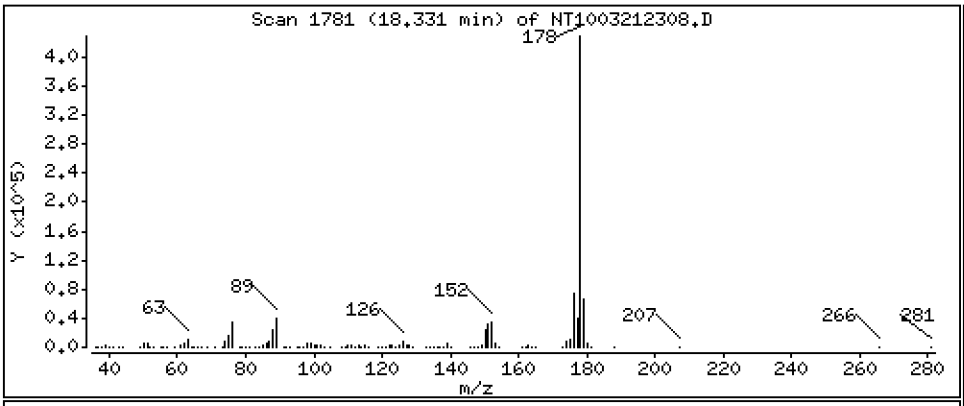
Operator: VTS

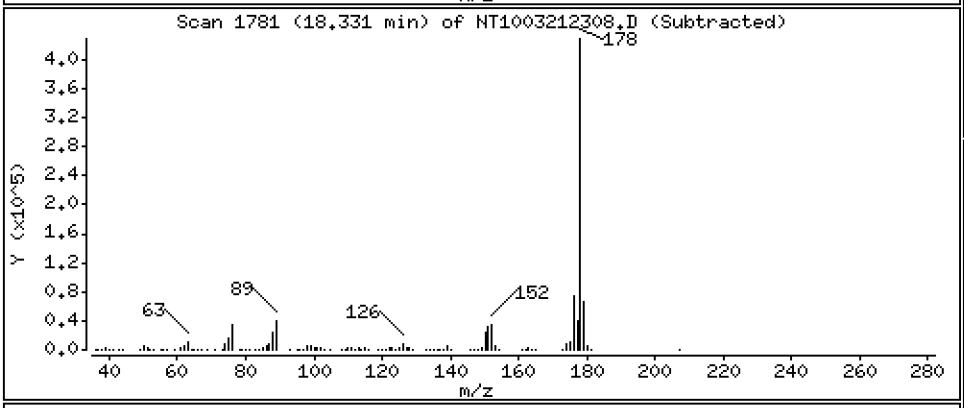
Column phase: ZB-5msi

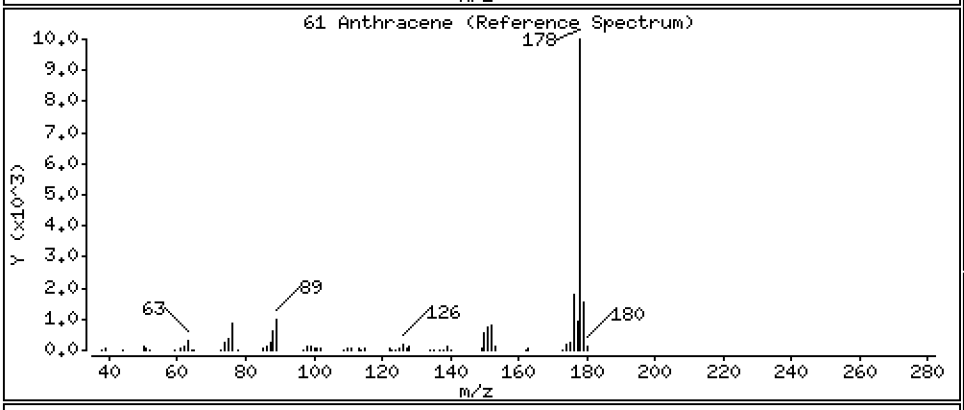
Column diameter: 0.25

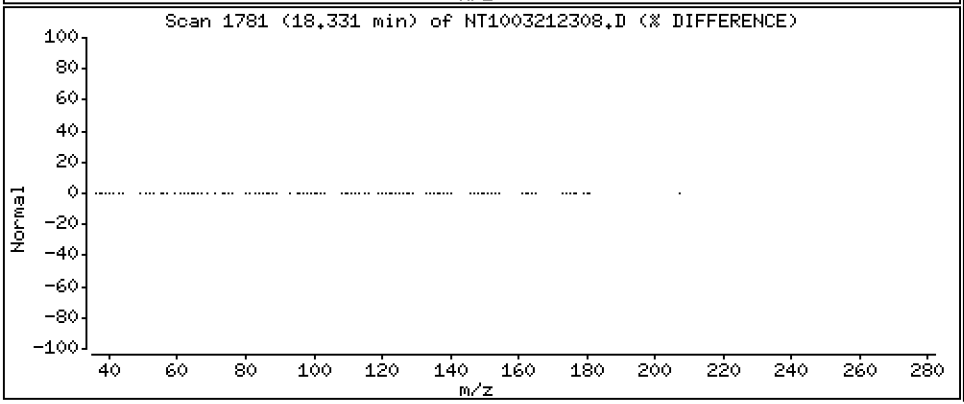
61 Anthracene

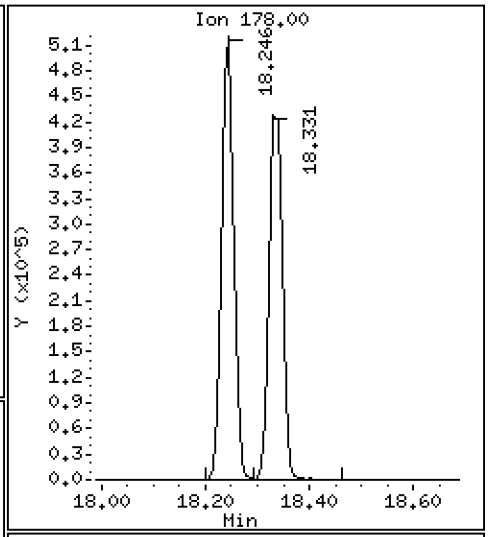
Concentration: 4.018 ug/mL

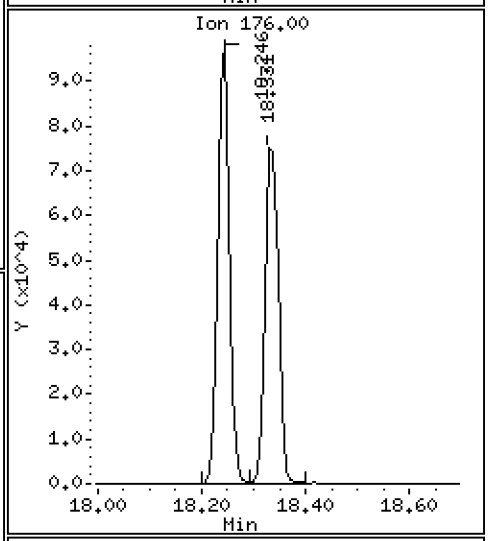


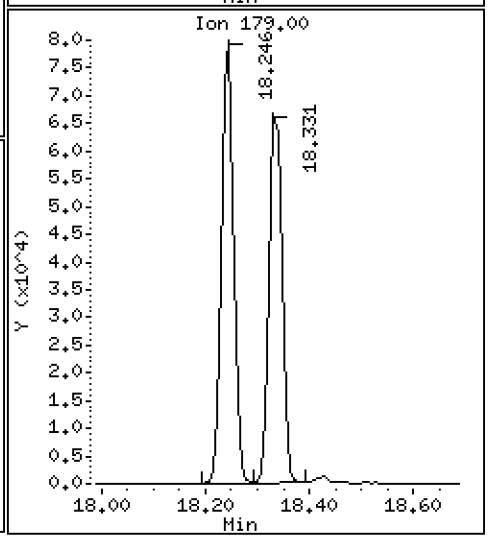












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Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD1

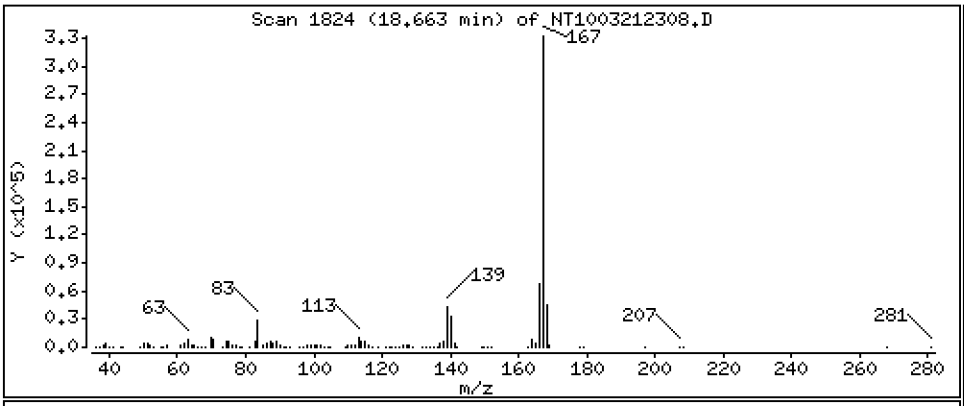
Operator: VTS

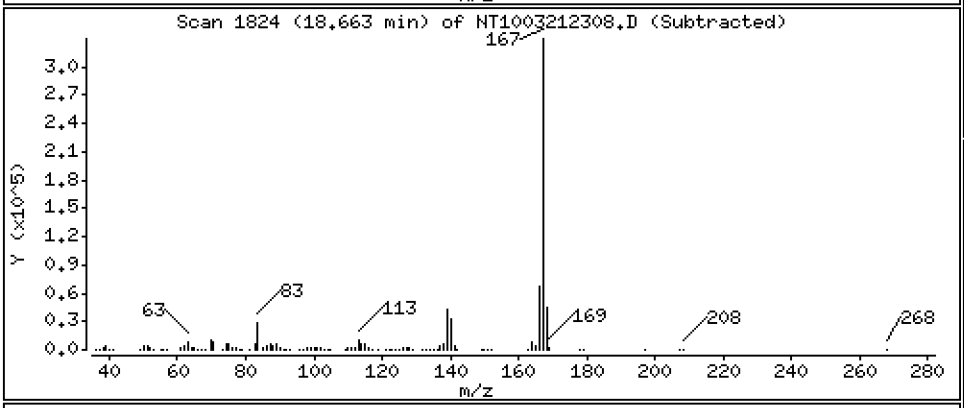
Column phase: ZB-5msi

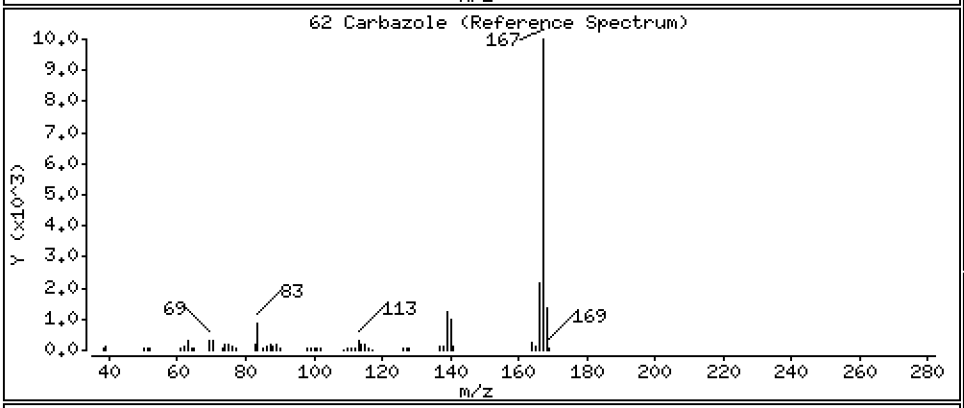
Column diameter: 0.25

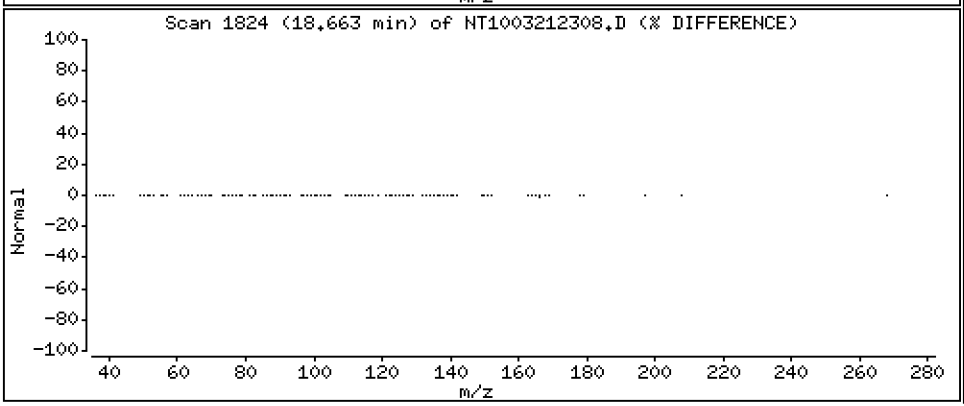
62 Carbazole

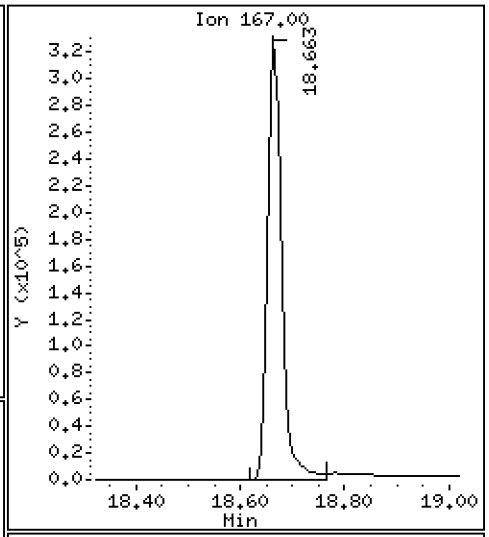
Concentration: 3.673 ug/mL

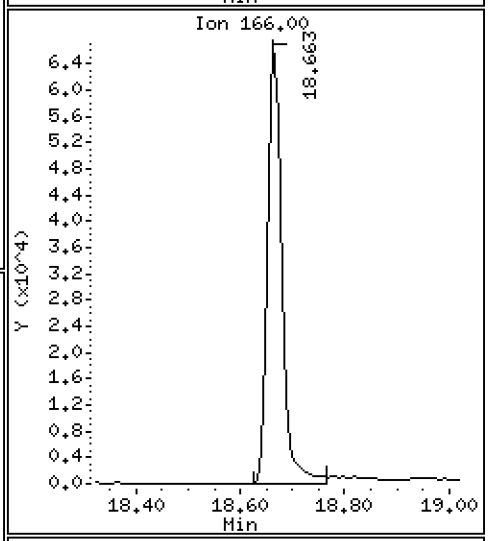


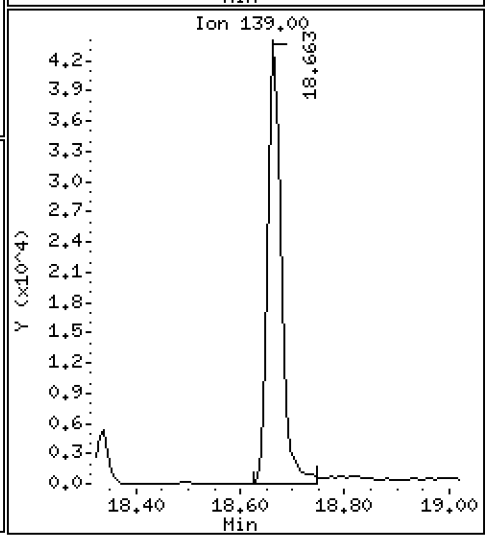












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Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD1

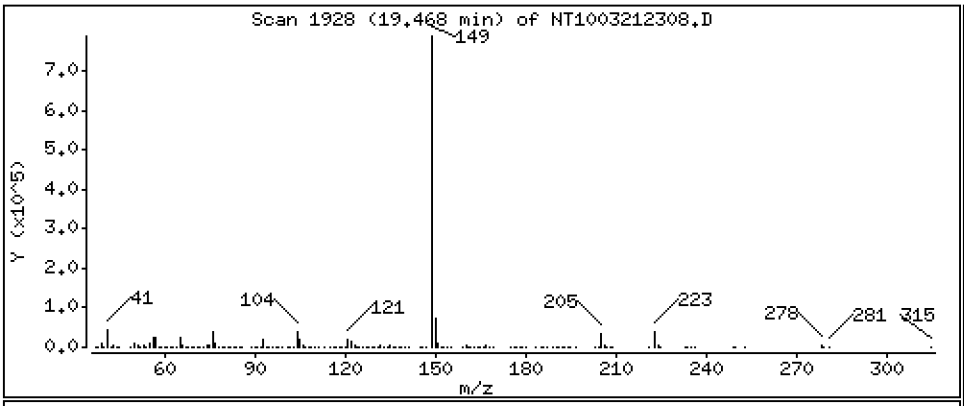
Operator: VTS

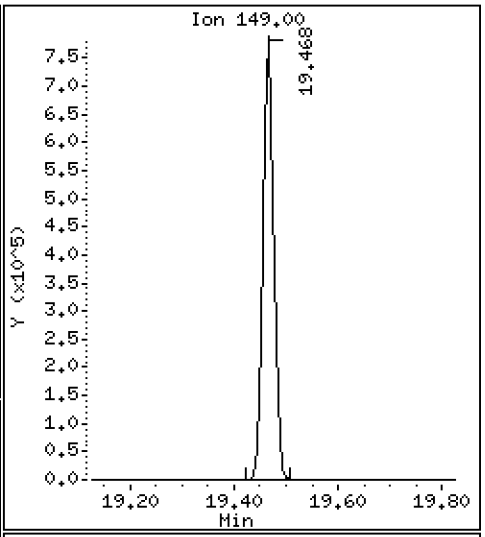
Column phase: ZB-5msi

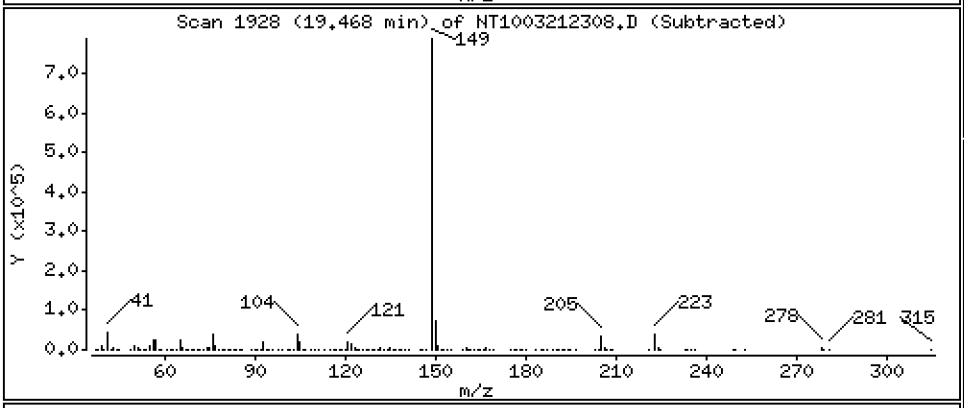
Column diameter: 0.25

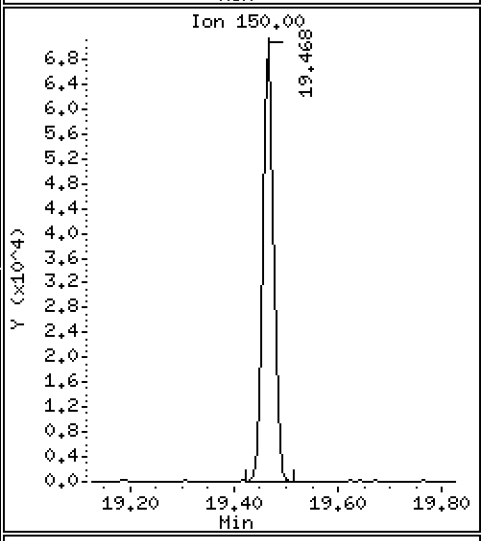
63 Di-n-butylphthalate

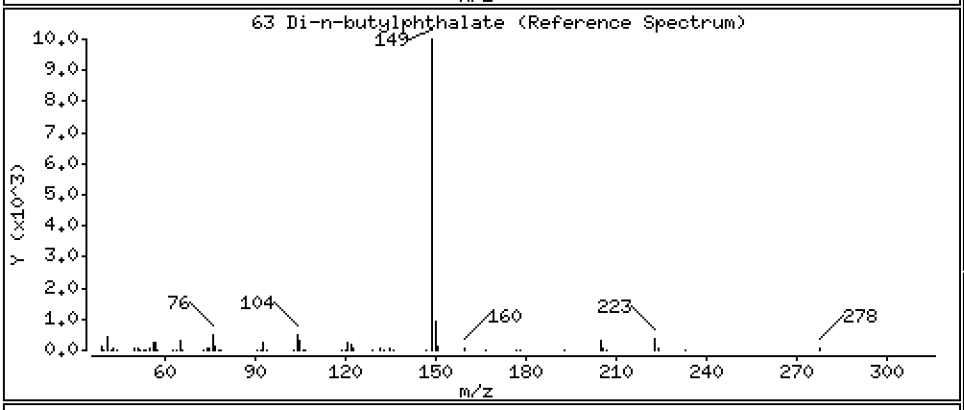
Concentration: 5.145 ug/mL

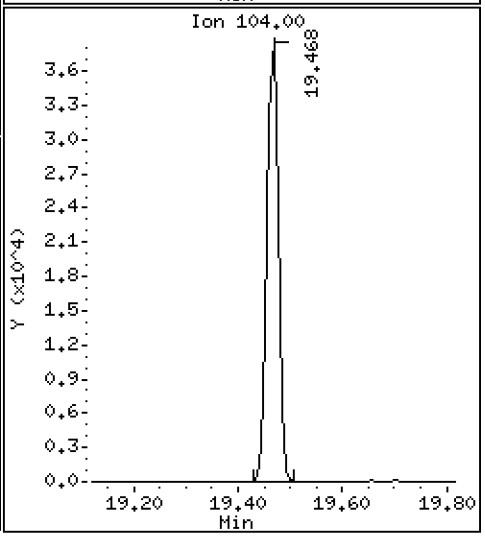


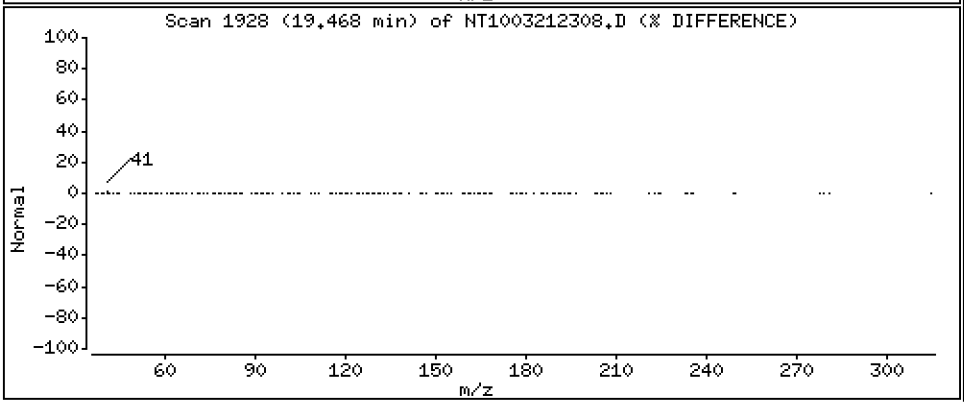












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Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD1

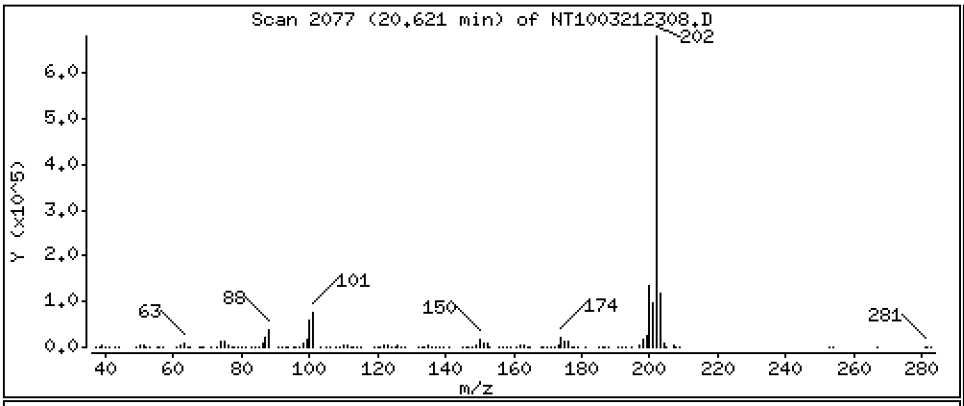
Operator: VTS

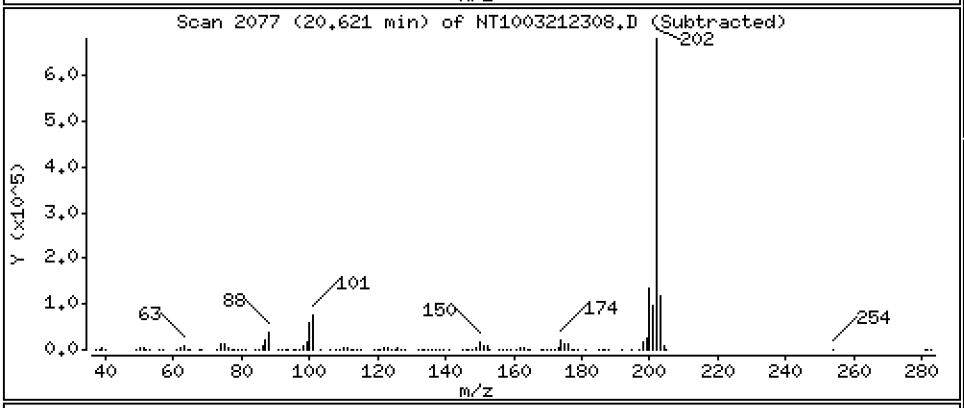
Column phase: ZB-5msi

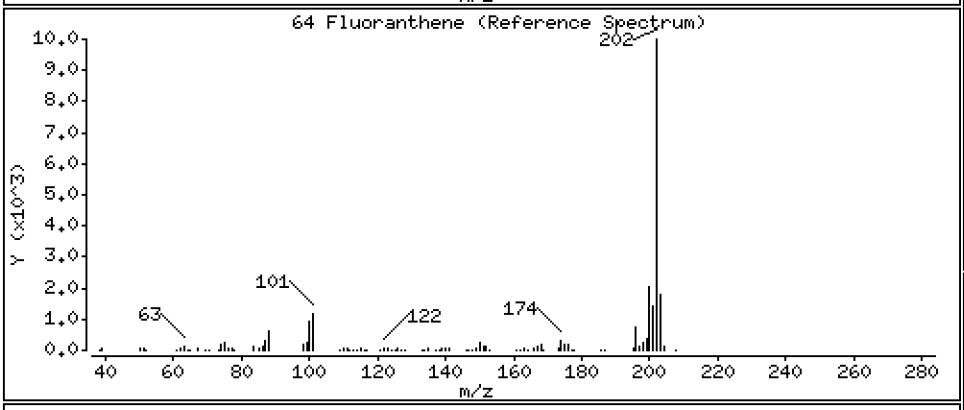
Column diameter: 0.25

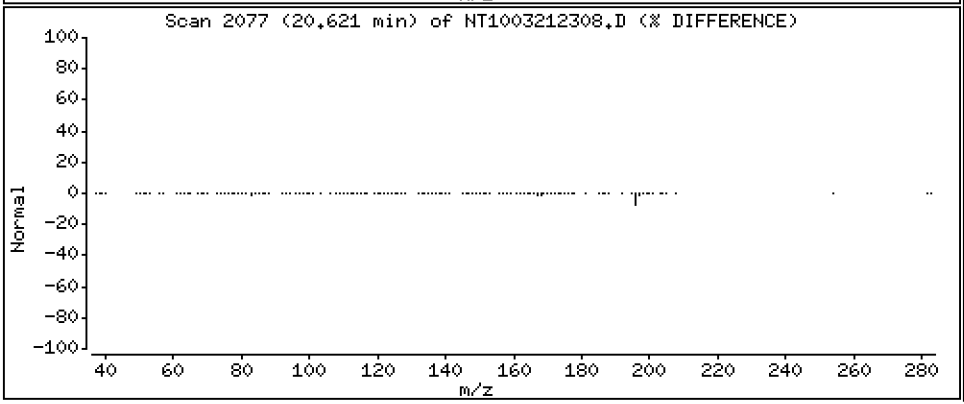
64 Fluoranthene

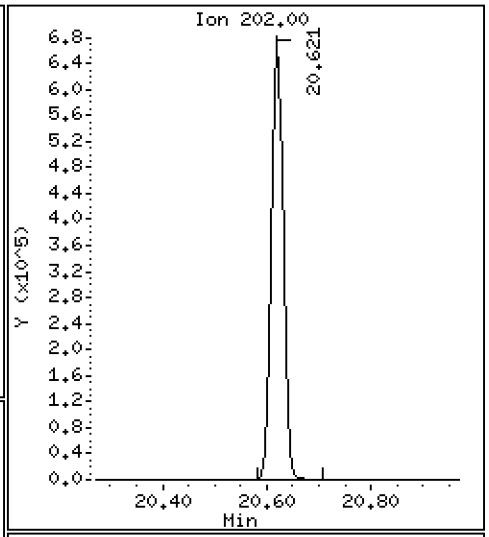
Concentration: 4.312 ug/mL

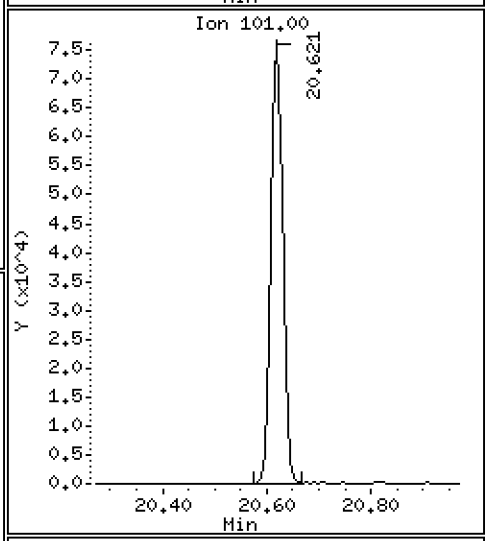


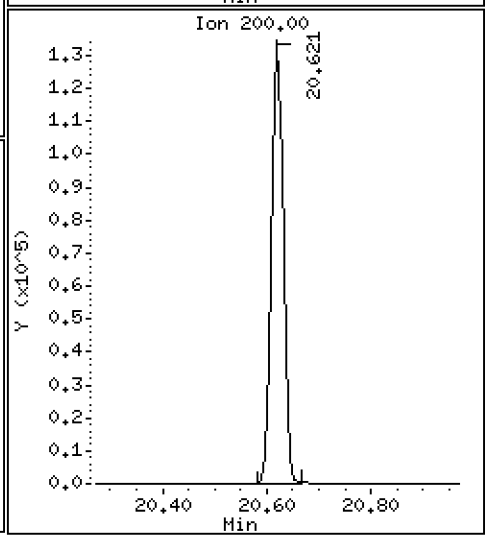












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Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD1

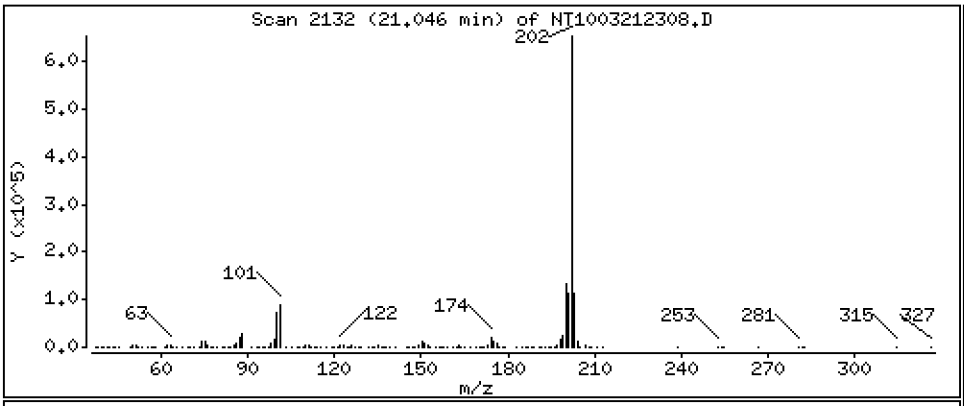
Operator: VTS

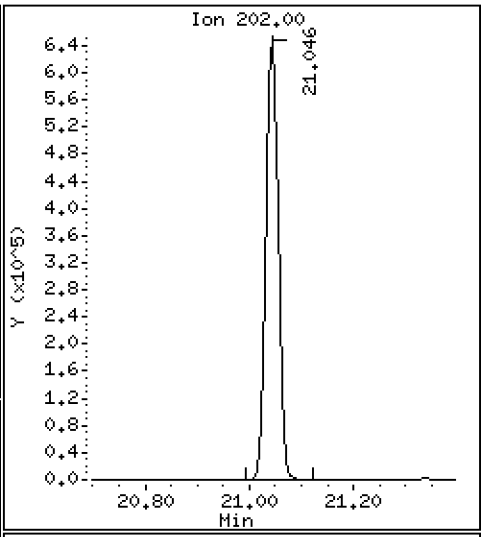
Column phase: ZB-5msi

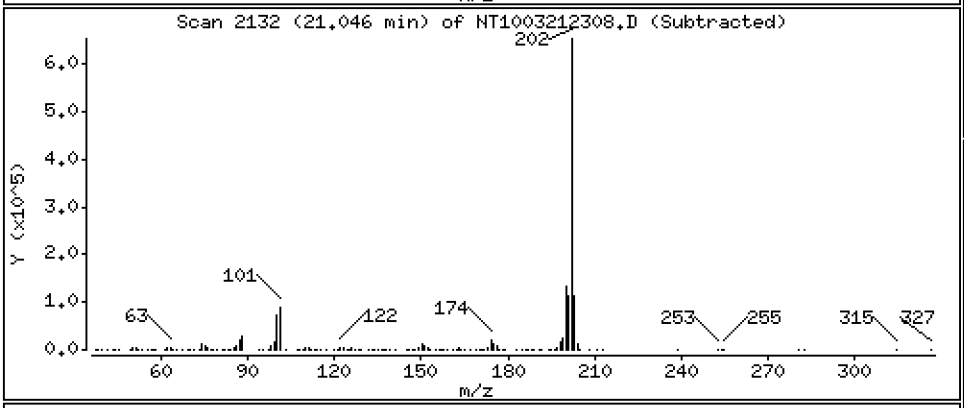
Column diameter: 0.25

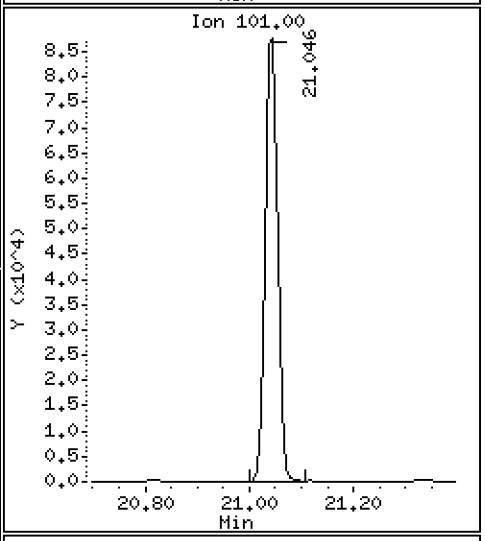
65 Pyrene

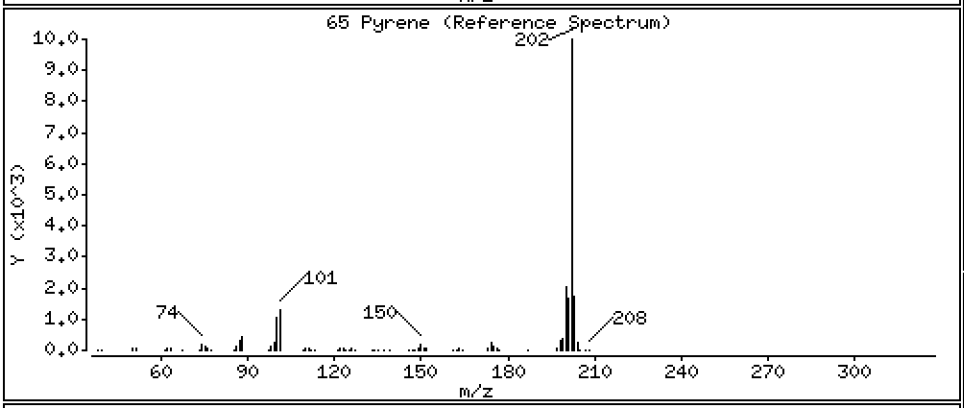
Concentration: 4.269 ug/mL

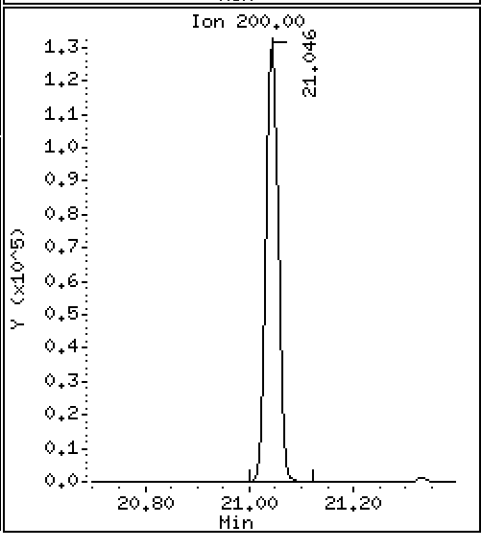


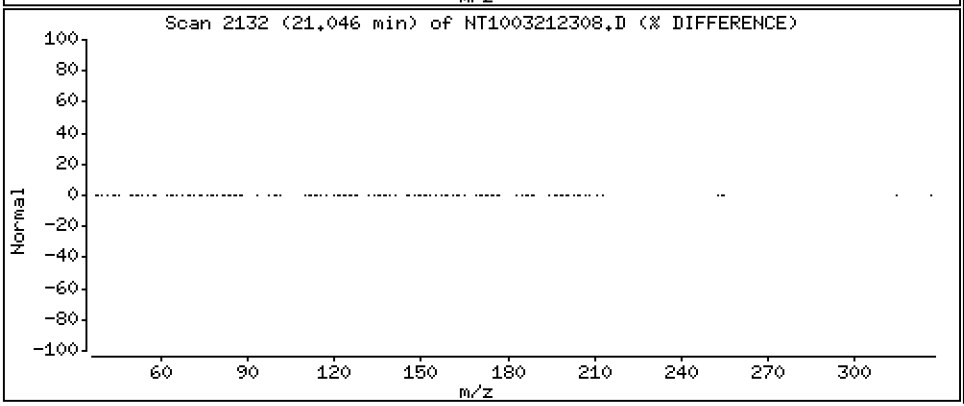












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212308.D

Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD1

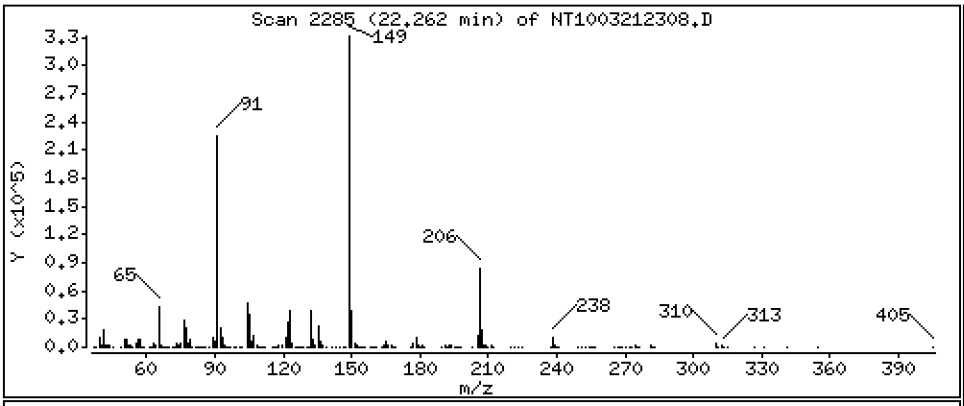
Operator: VTS

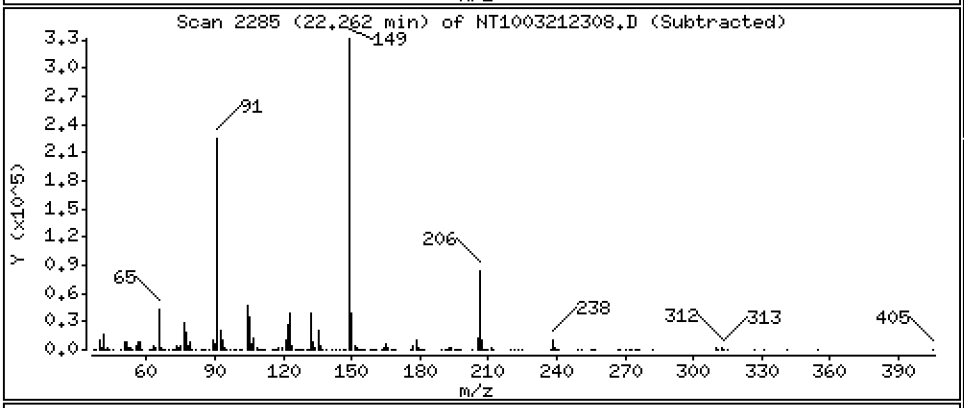
Column phase: ZB-5msi

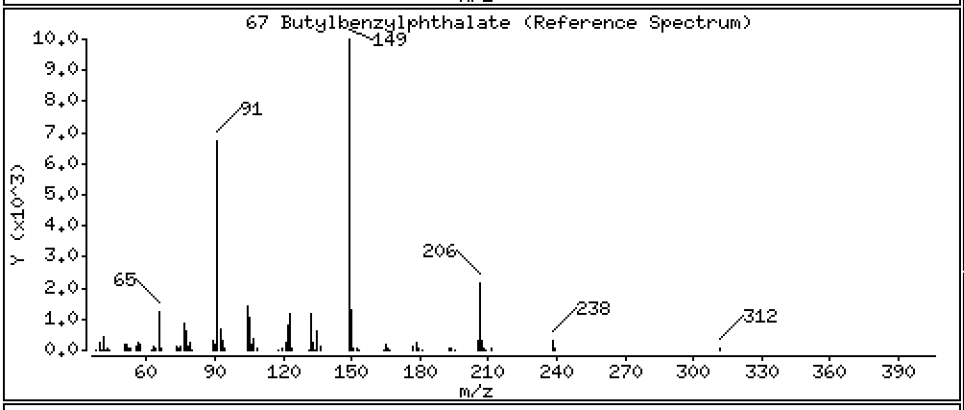
Column diameter: 0.25

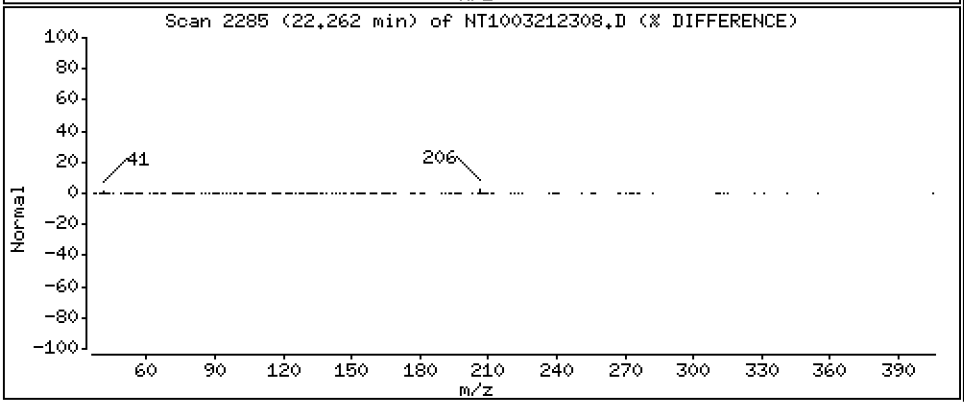
67 Butylbenzylphthalate

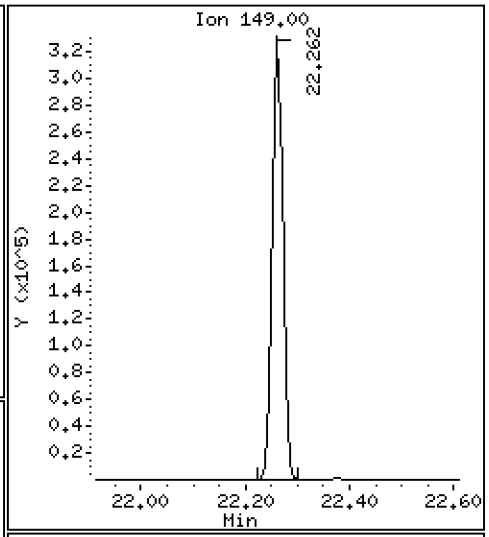
Concentration: 5.053 ug/mL

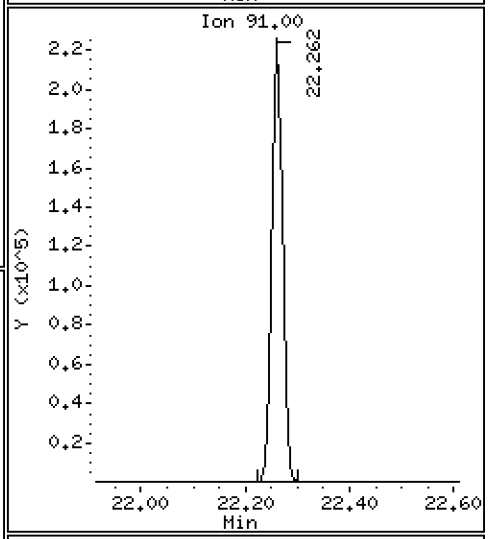


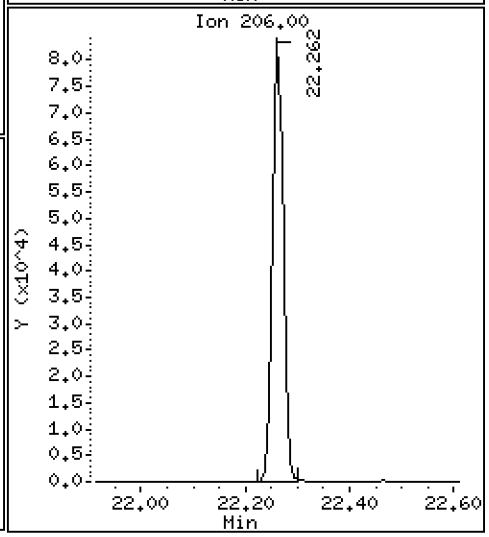












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Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD1

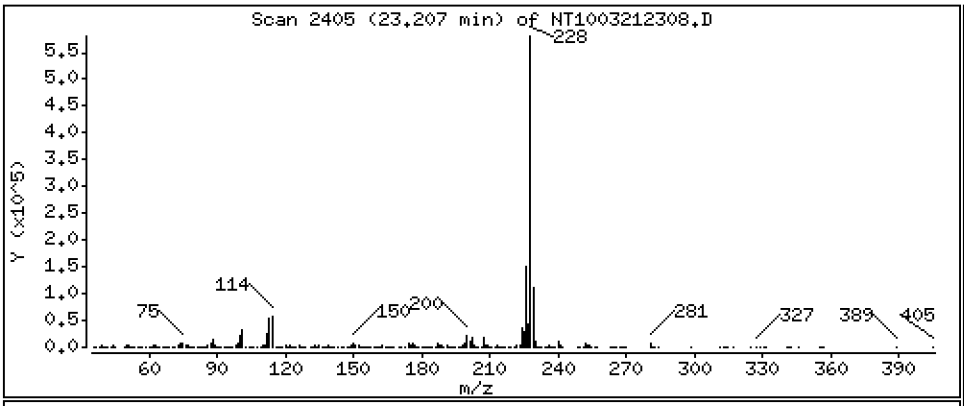
Operator: VTS

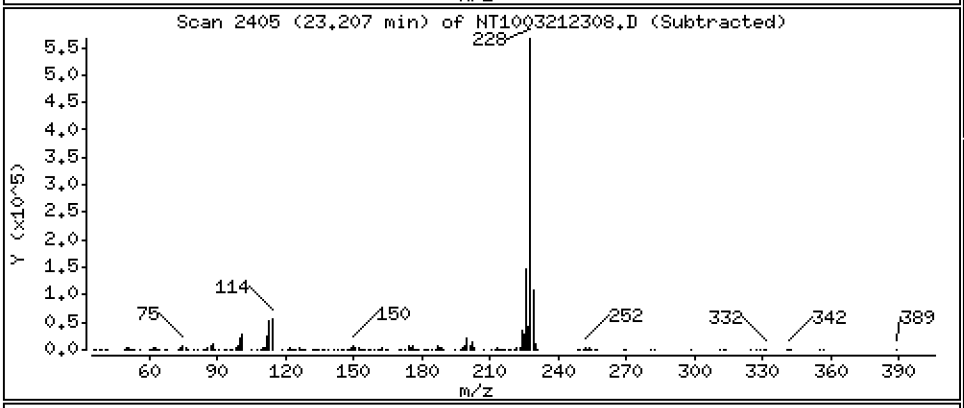
Column phase: ZB-5msi

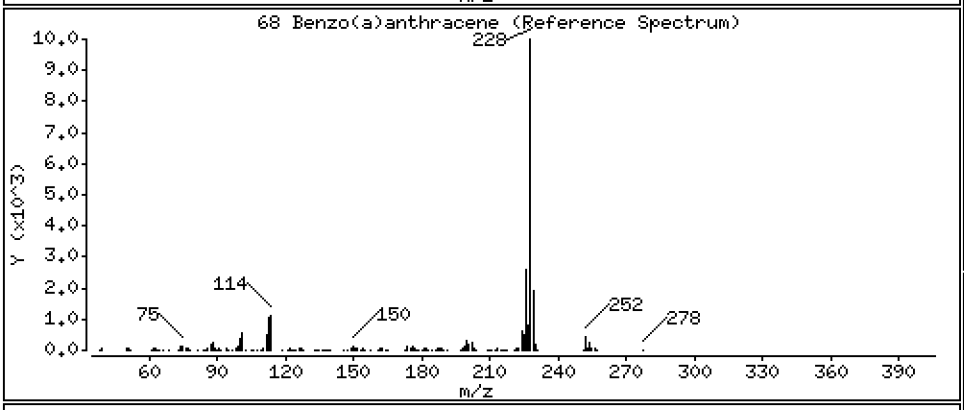
Column diameter: 0.25

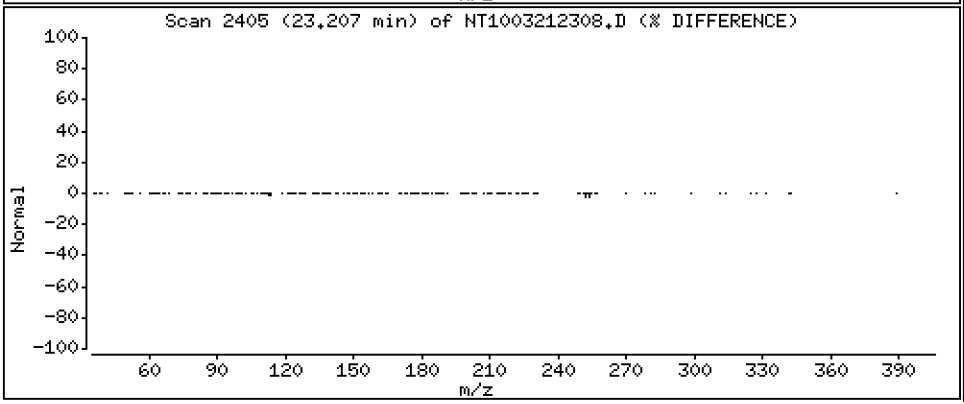
68 Benzo(a)anthracene

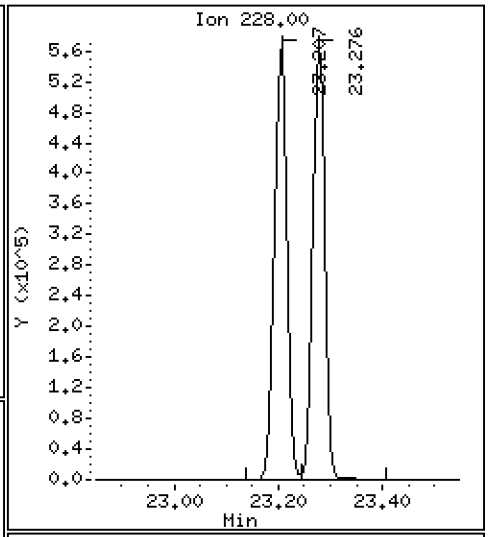
Concentration: 4.489 ug/mL

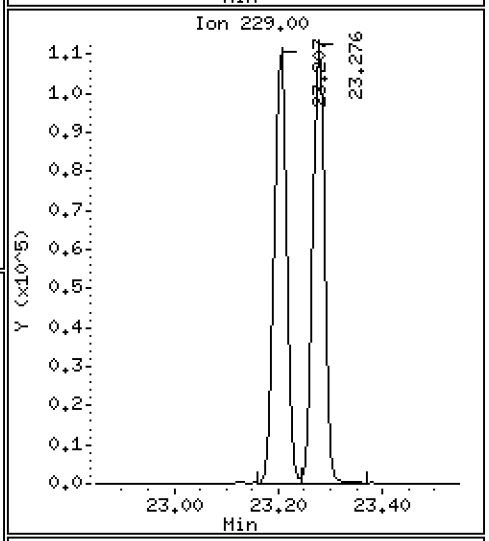


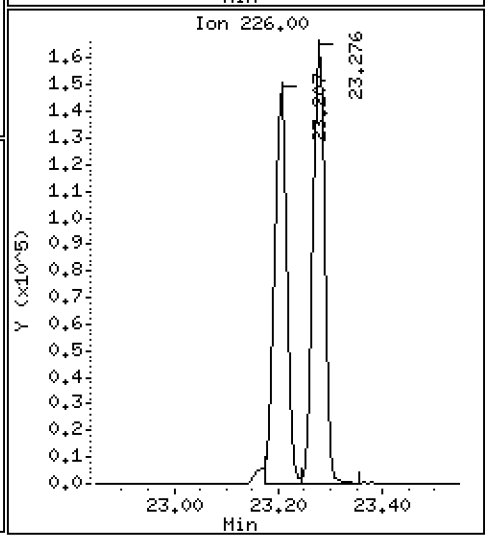












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Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD1

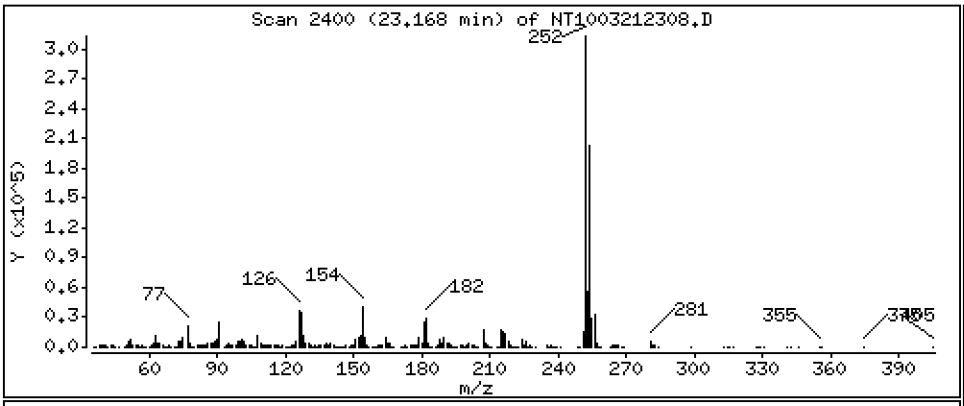
Operator: VTS

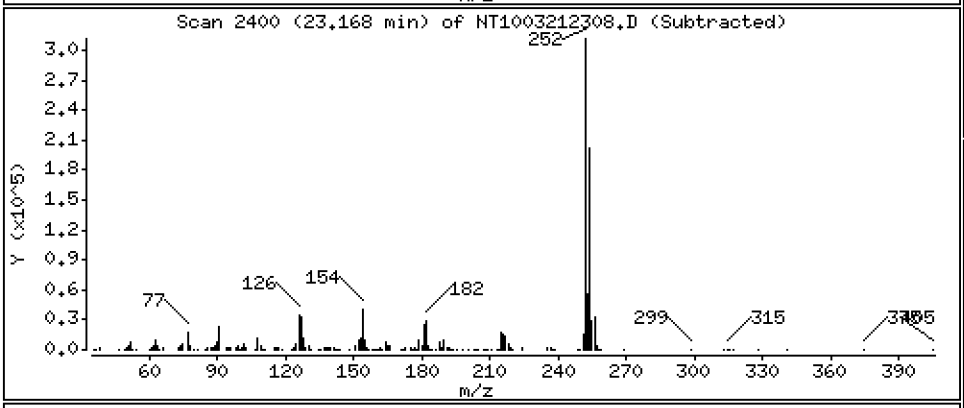
Column phase: ZB-5msi

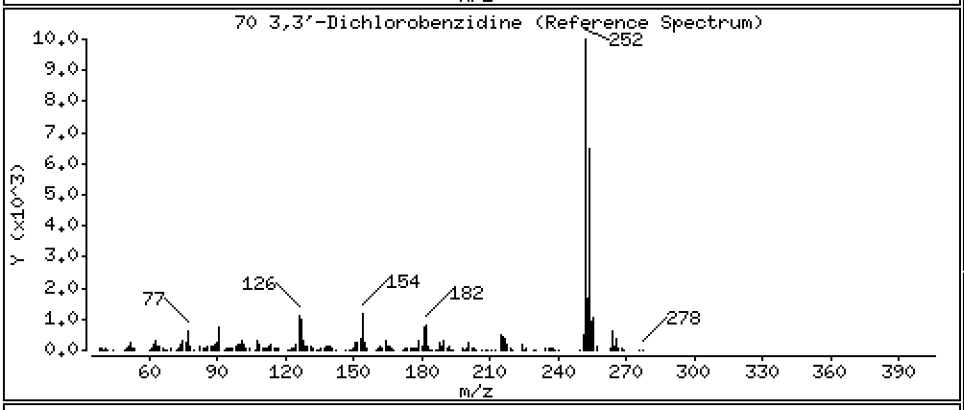
Column diameter: 0.25

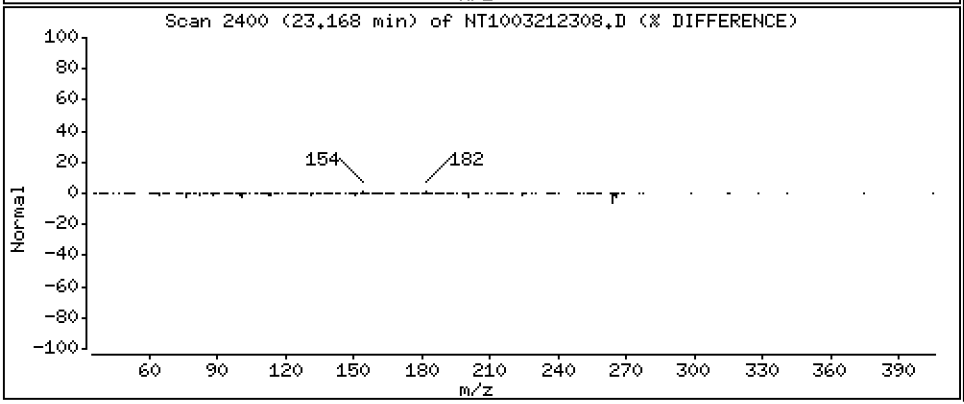
70 3,3'-Dichlorobenzidine

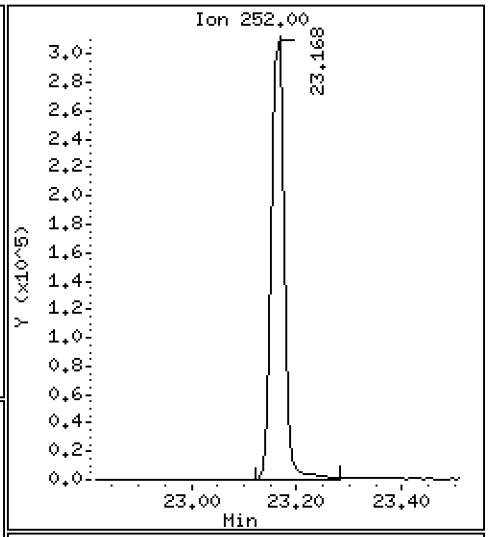
Concentration: 7.691 ug/mL

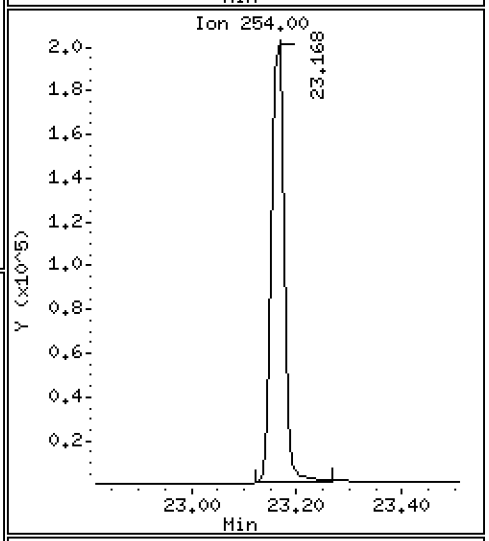


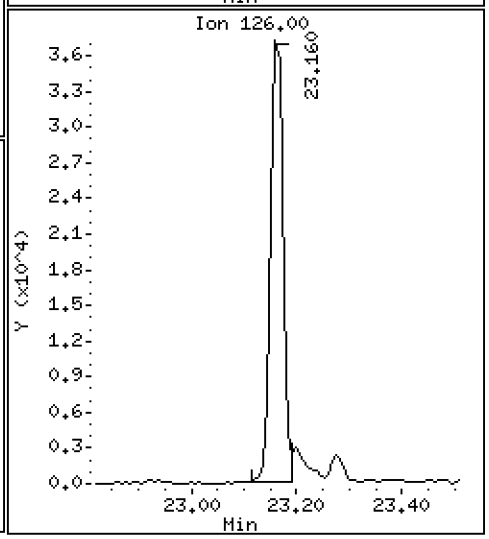












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Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD1

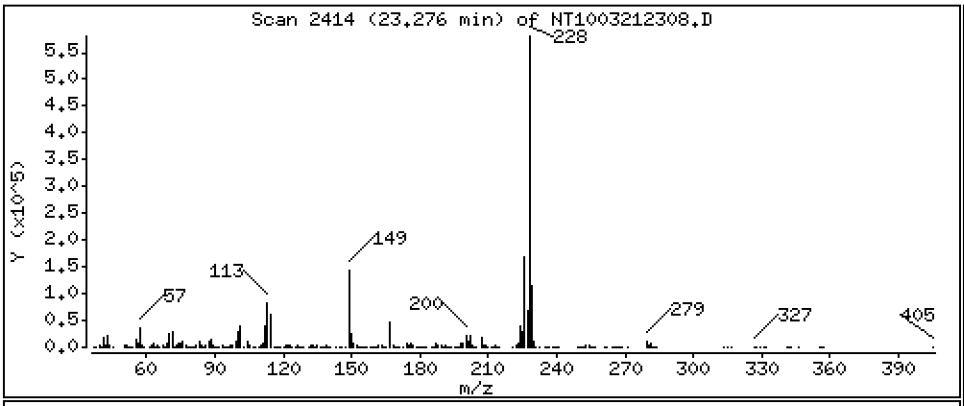
Operator: VTS

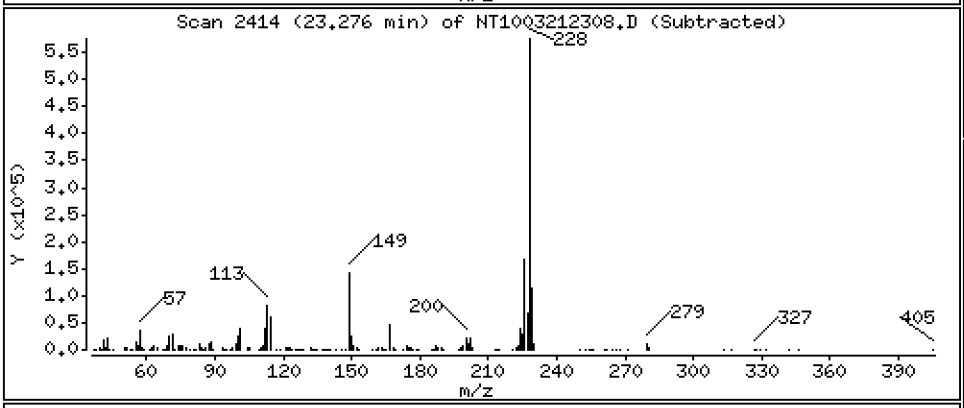
Column phase: ZB-5msi

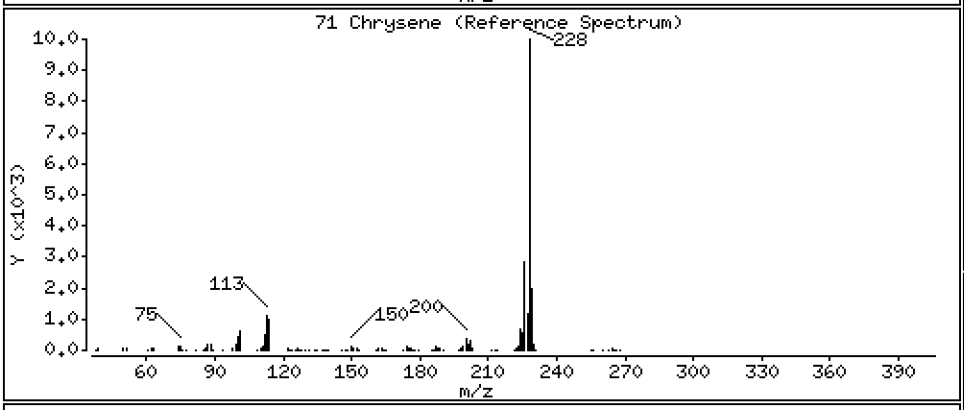
Column diameter: 0.25

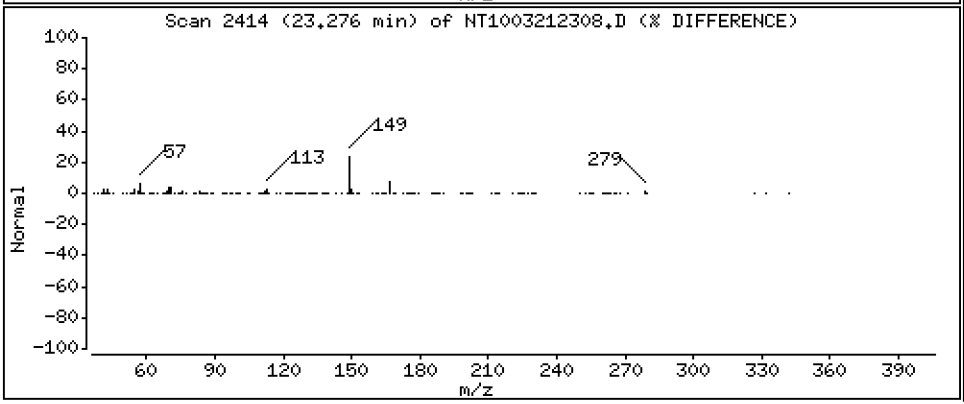
71 Chrysene

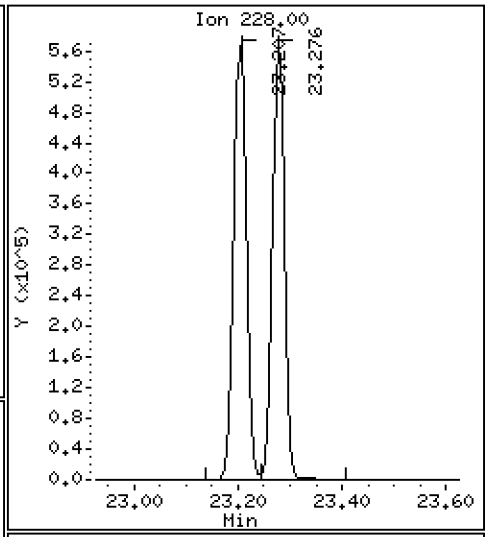
Concentration: 4.313 ug/mL

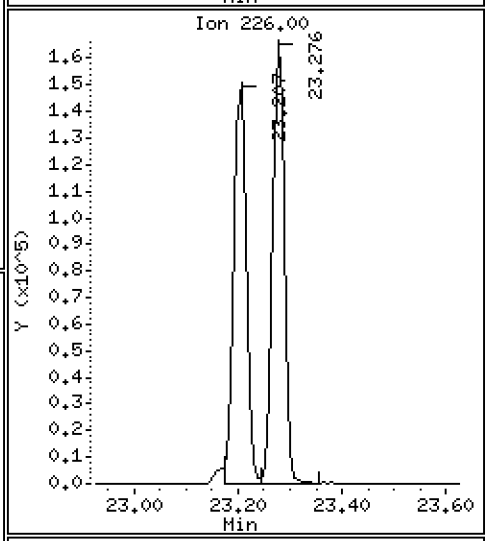


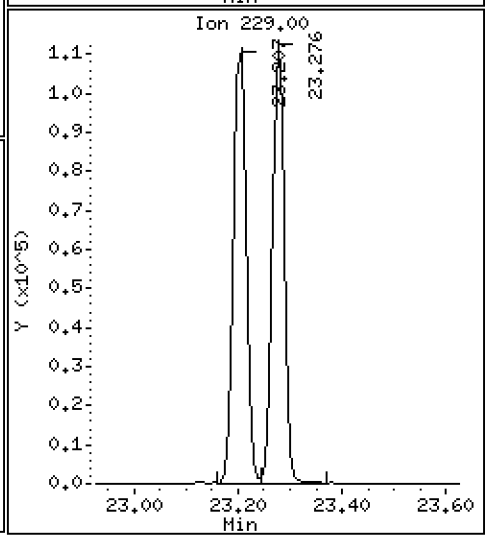












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Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD1

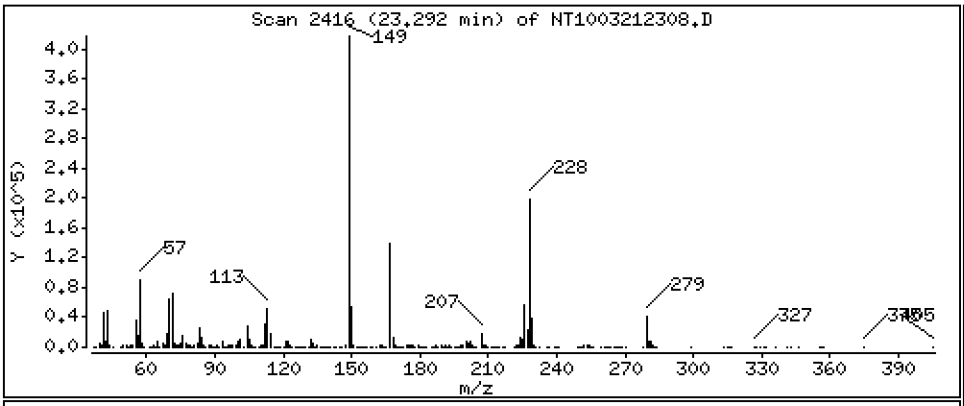
Operator: VTS

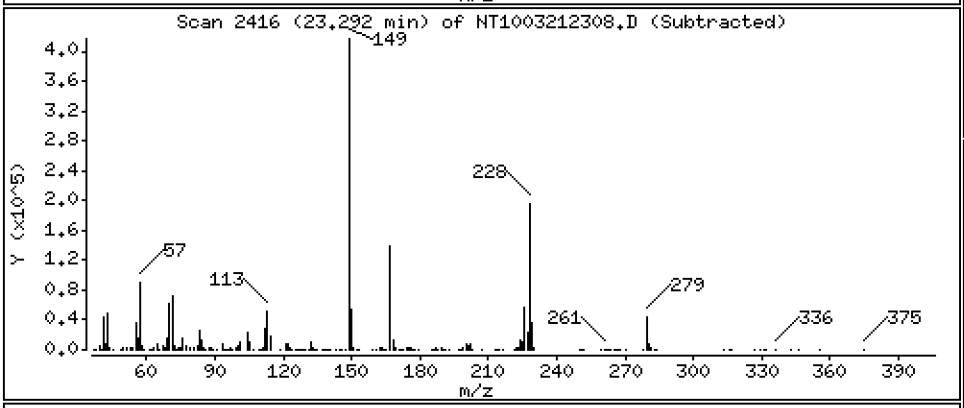
Column phase: ZB-5msi

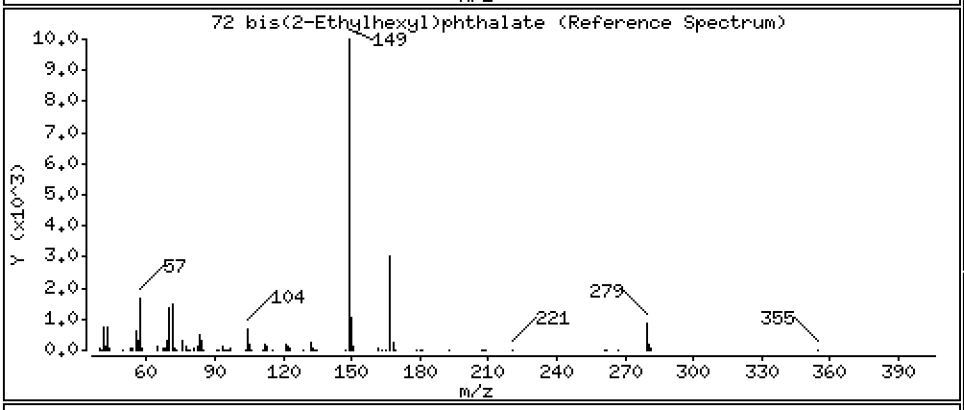
Column diameter: 0.25

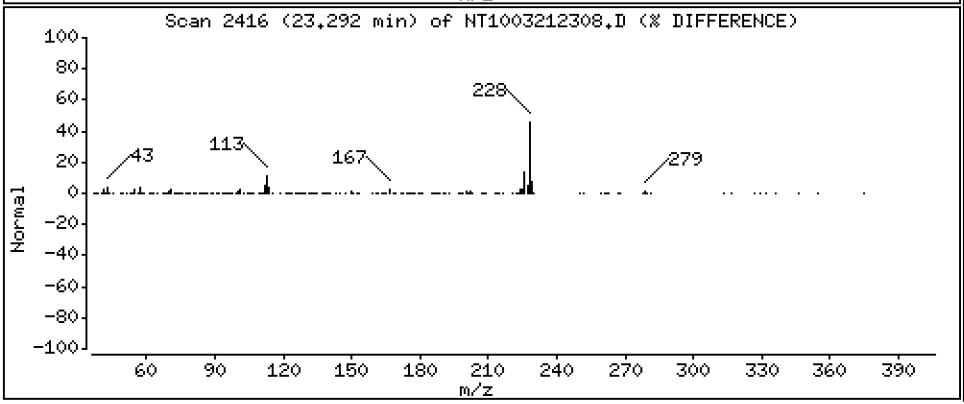
72 bis(2-Ethylhexyl)phthalate

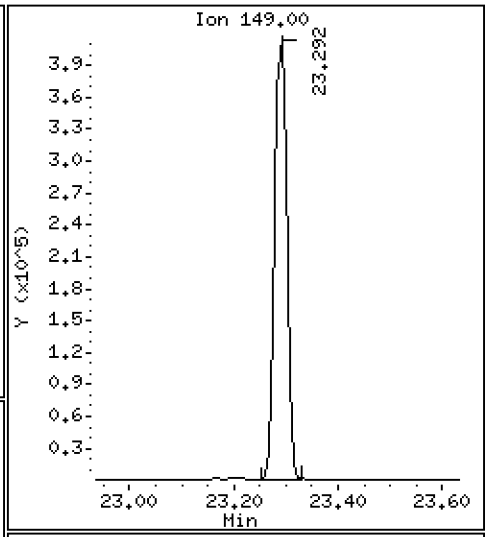
Concentration: 4.641 ug/mL

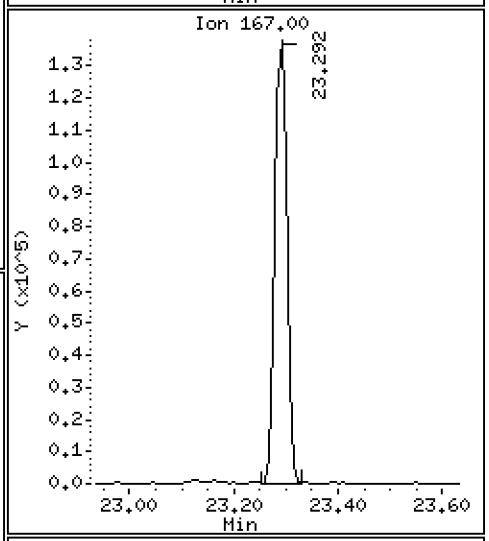


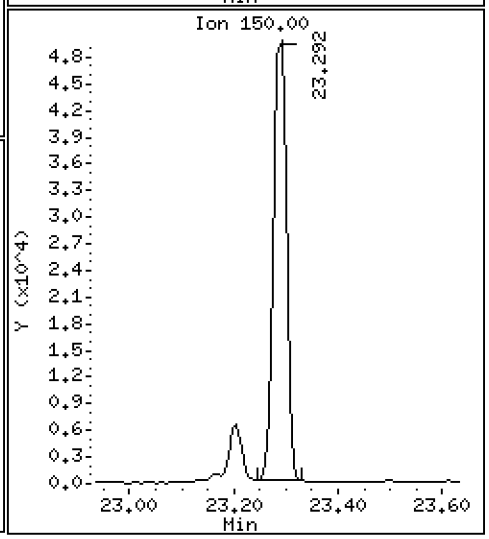












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Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD1

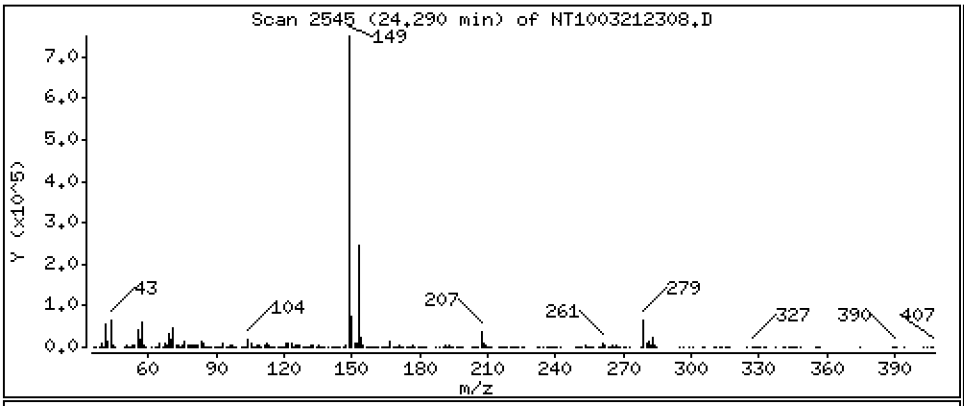
Operator: VTS

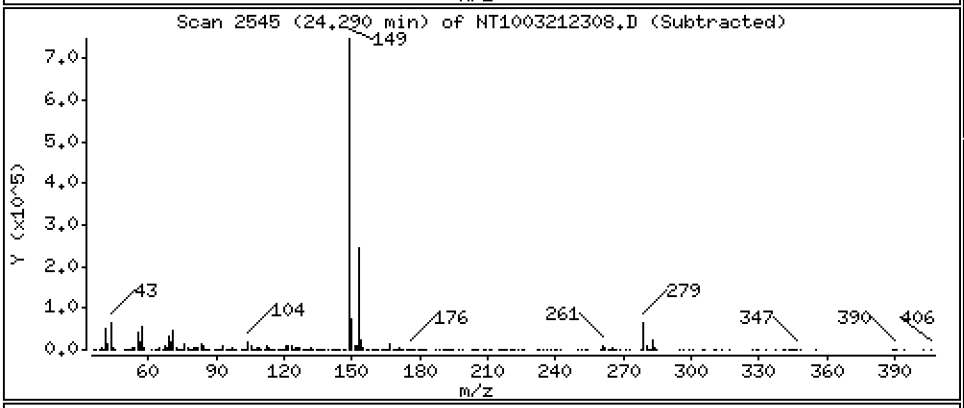
Column phase: ZB-5msi

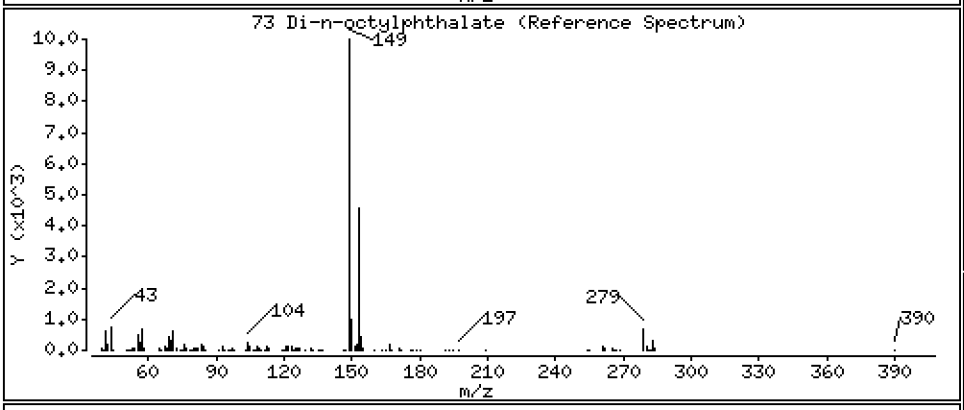
Column diameter: 0.25

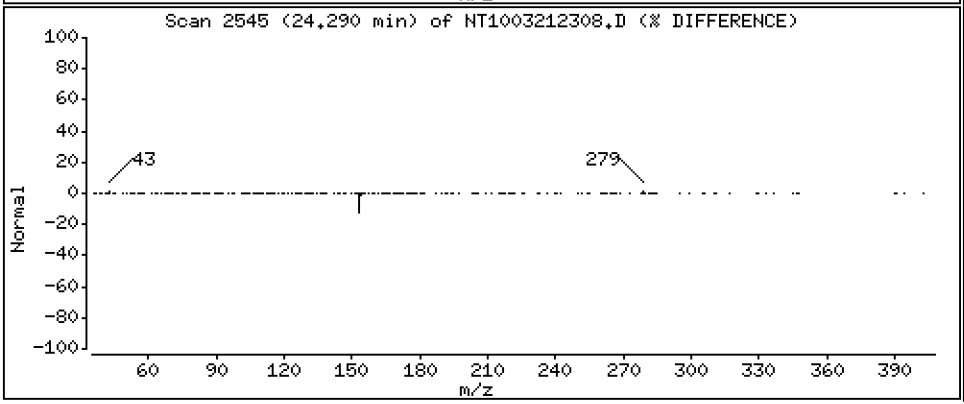
73 Di-n-octylphthalate

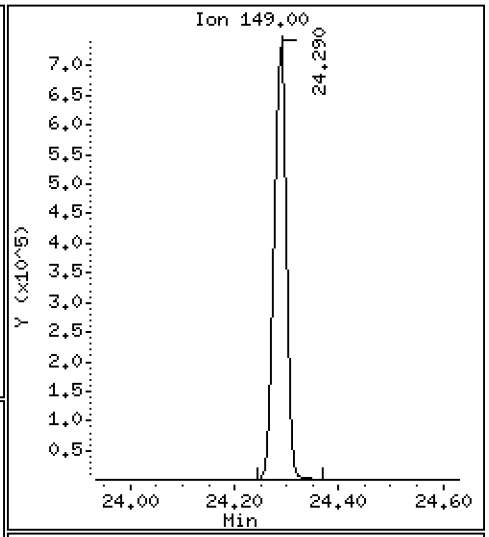
Concentration: 4.730 ug/mL

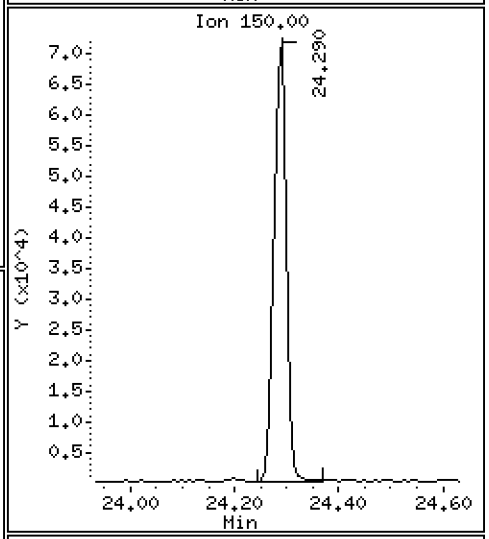


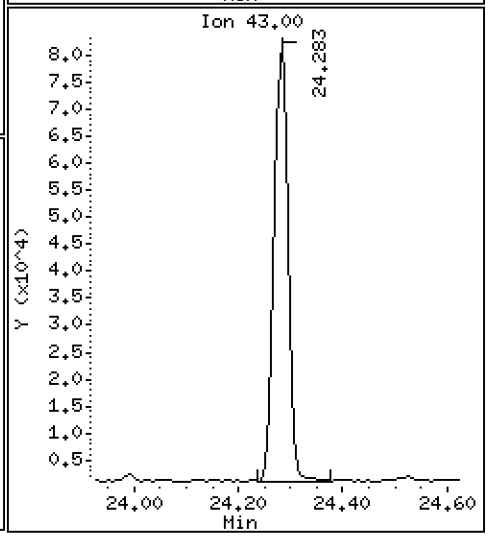












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Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD1

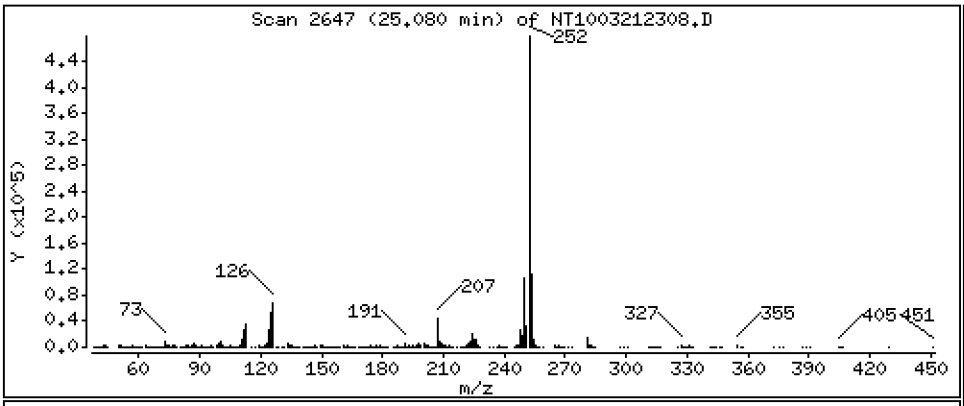
Operator: VTS

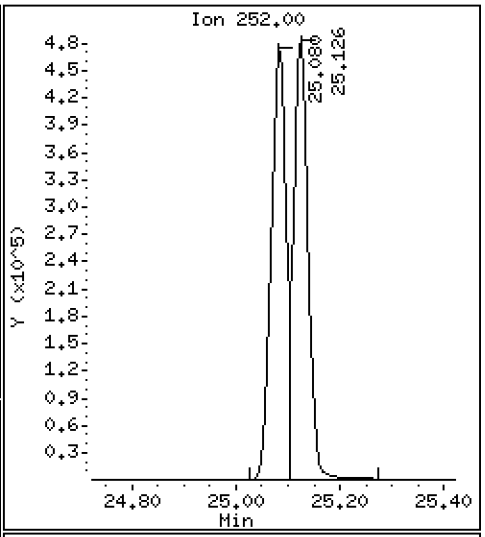
Column phase: ZB-5msi

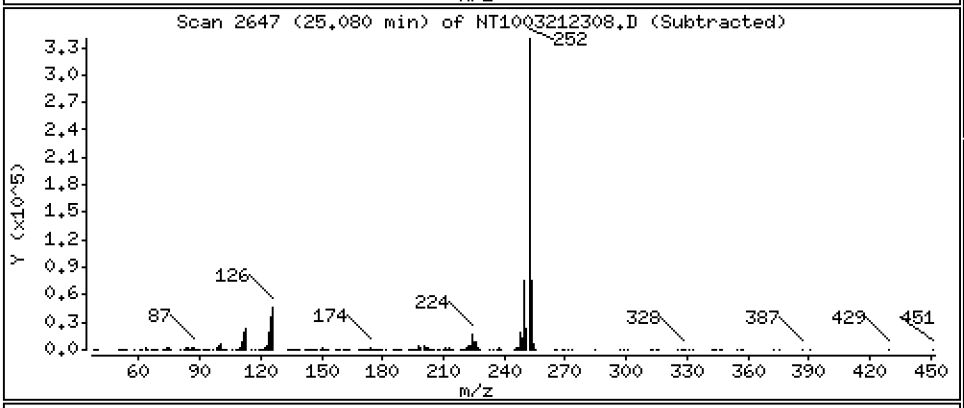
Column diameter: 0.25

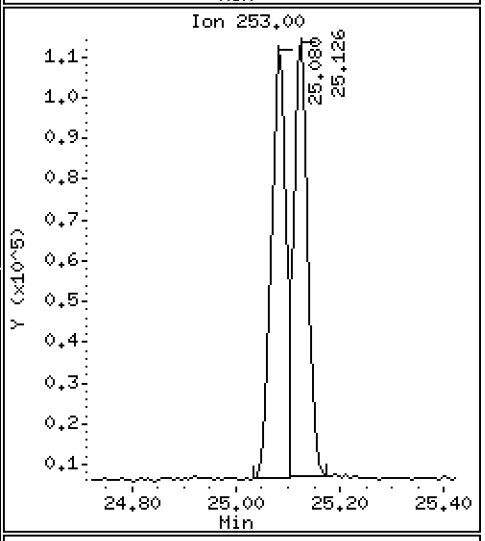
74 Benzo(b)fluoranthene

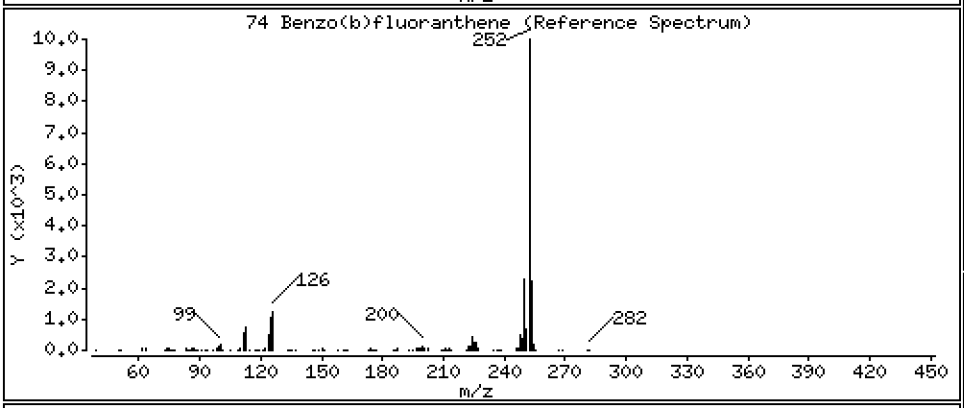
Concentration: 4.861 ug/mL

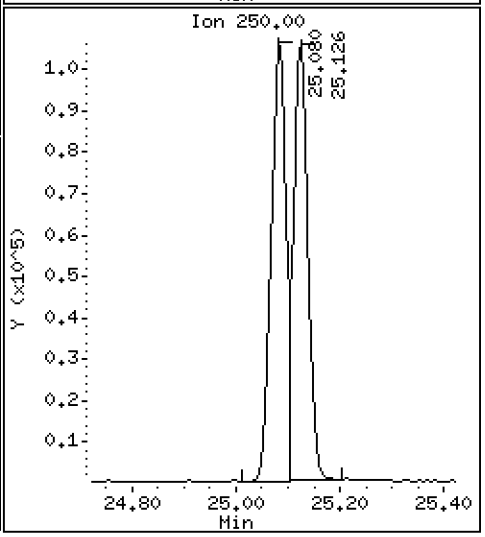


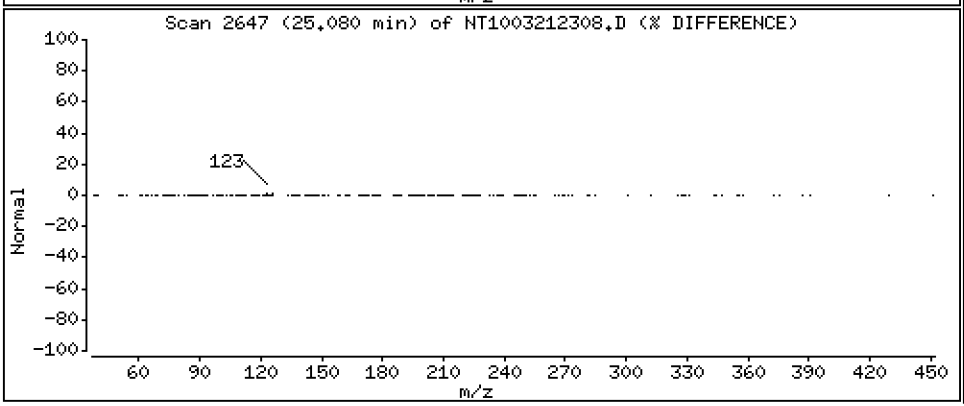












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212308.D

Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD1

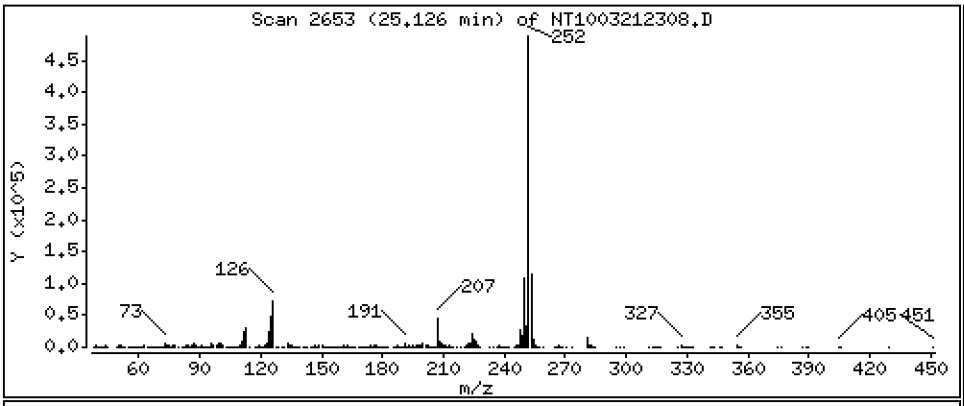
Operator: VTS

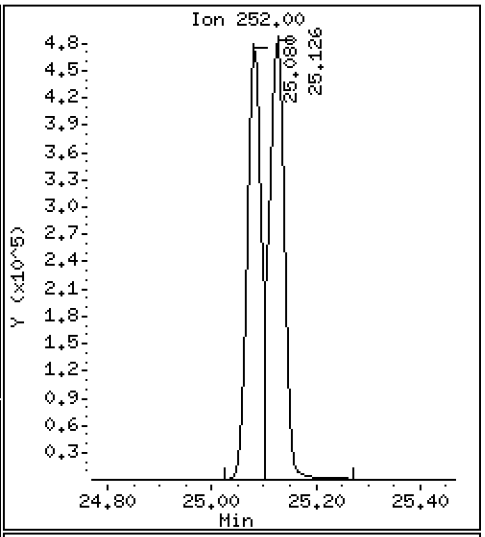
Column phase: ZB-5msi

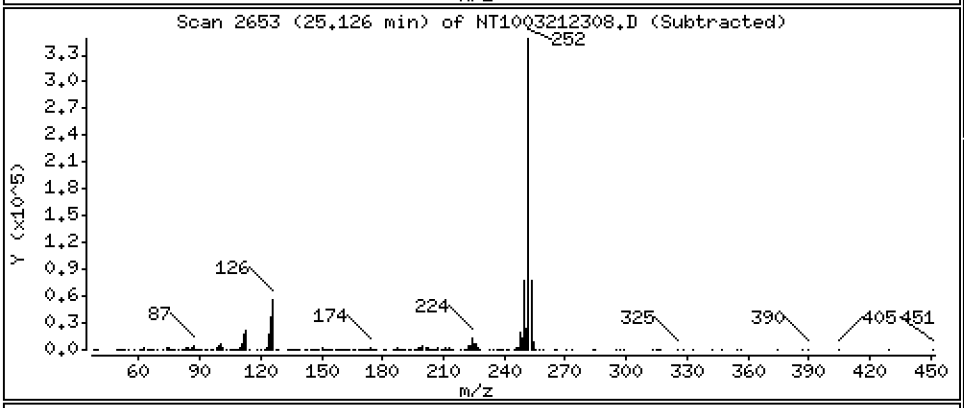
Column diameter: 0.25

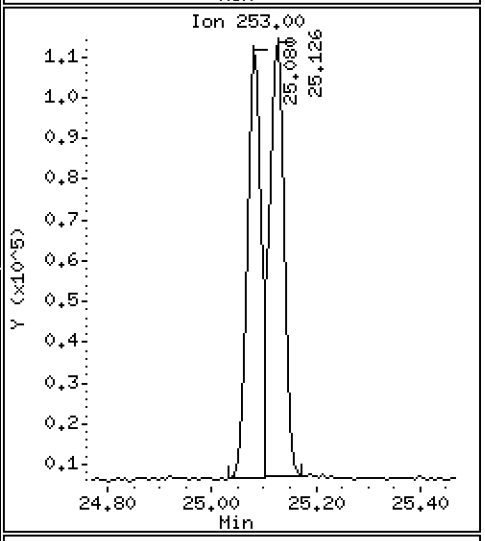
75 Benzo(k)fluoranthene

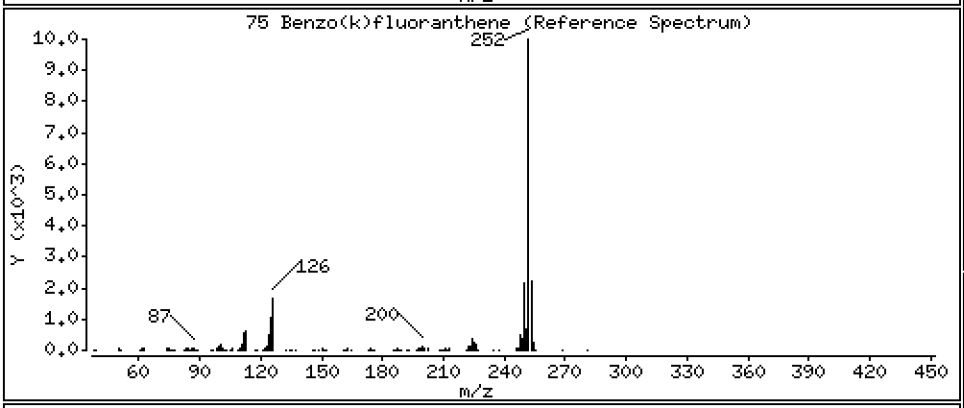
Concentration: 4.935 ug/mL

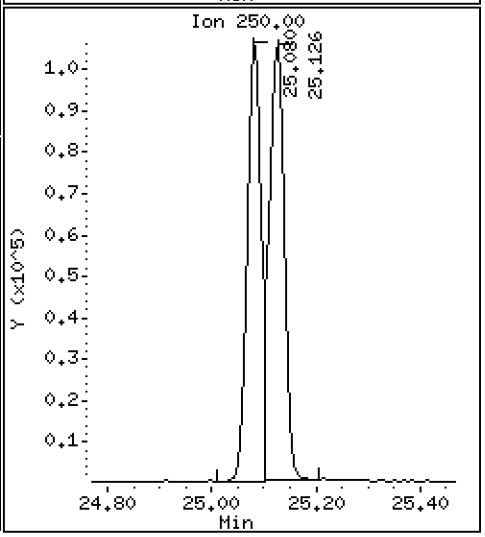


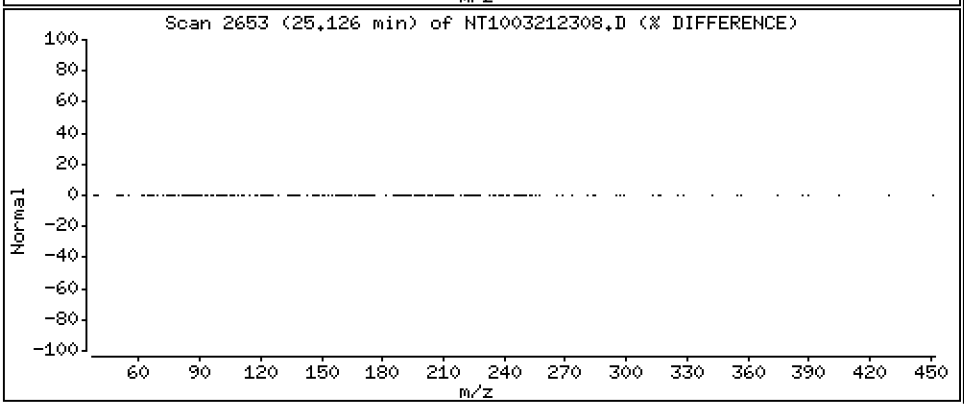












Date : 21-MAR-2023 21:39

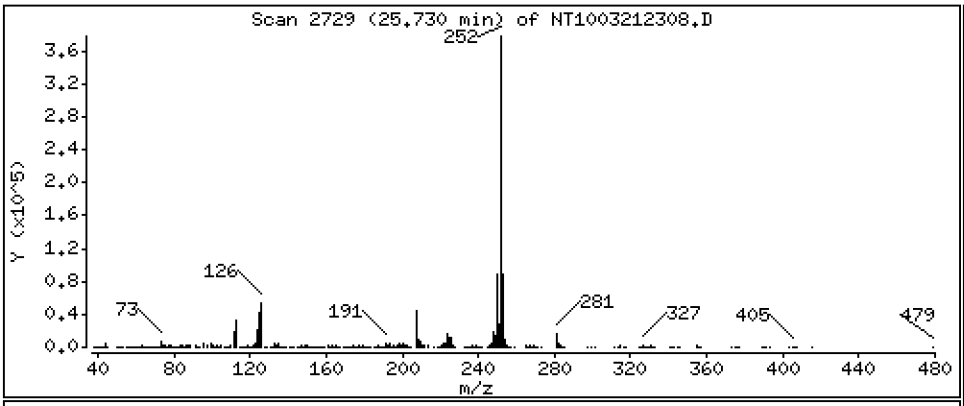
Client ID: Instrument: nt10.i

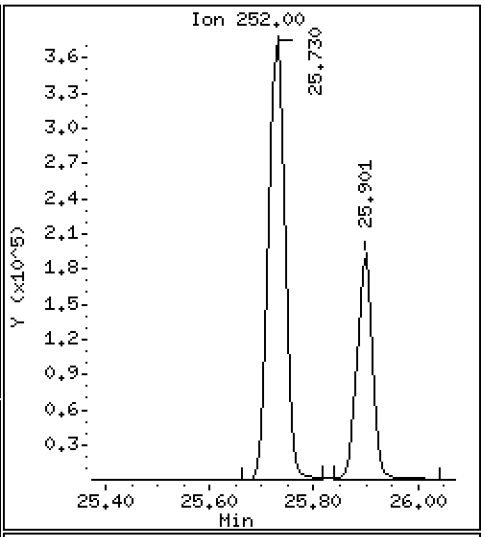
Sample Info: BLC0109-BSD1

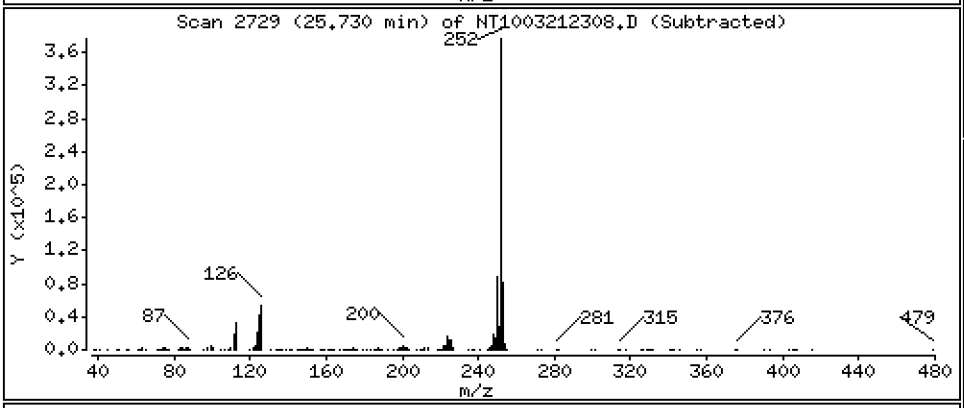
Operator: VTS

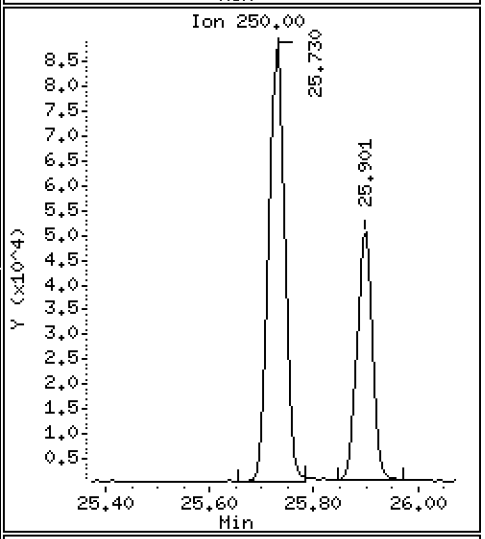
Column phase: ZB-5msi Column diameter: 0.25

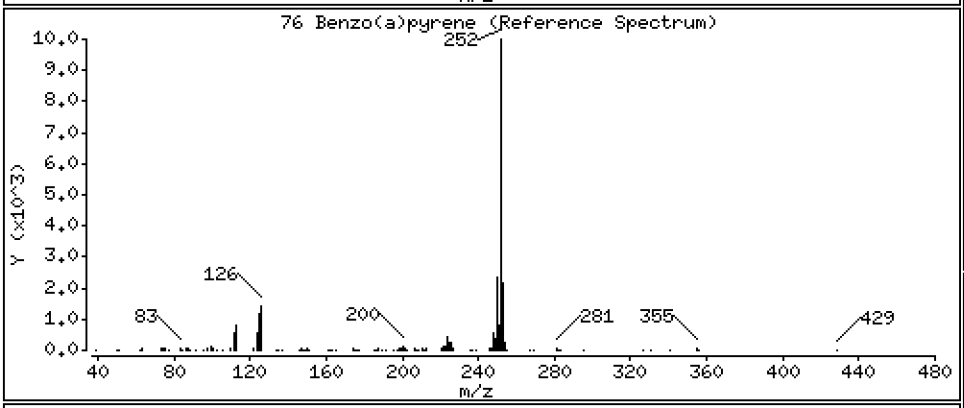
76 Benzo(a)pyrene Concentration: 4.563 ug/mL

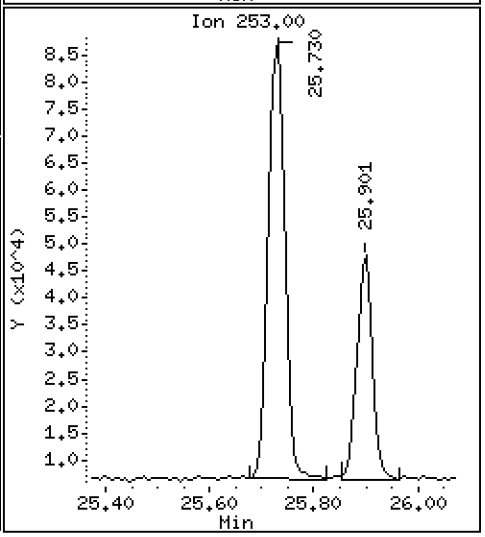


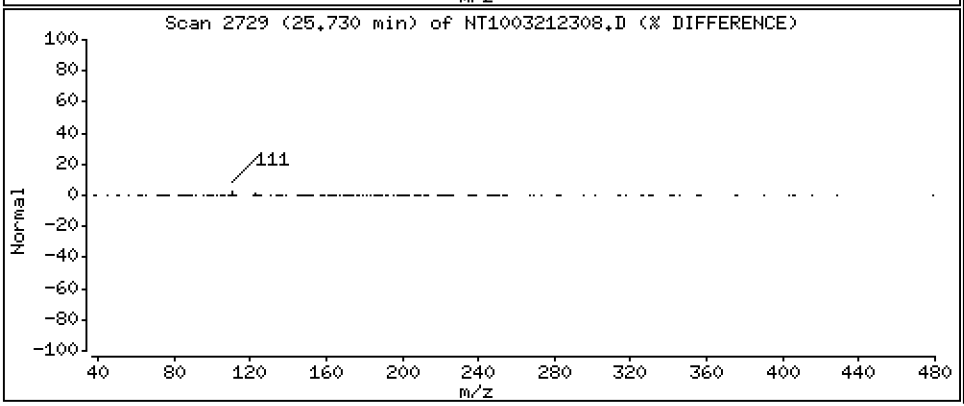












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Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD1

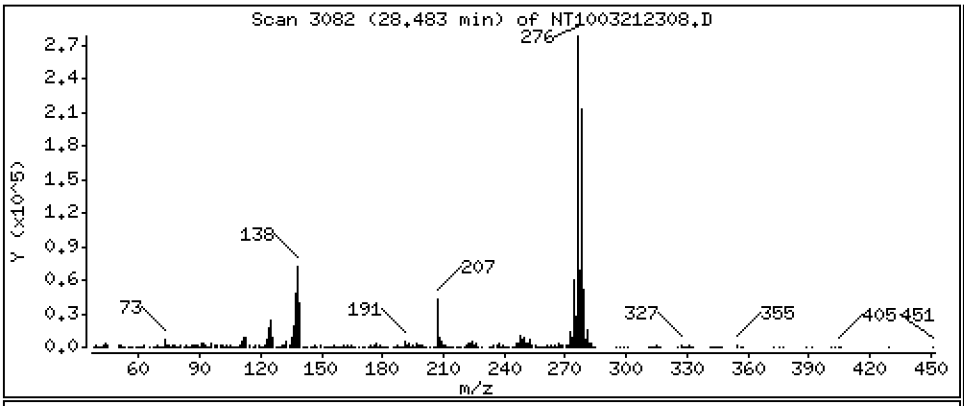
Operator: VTS

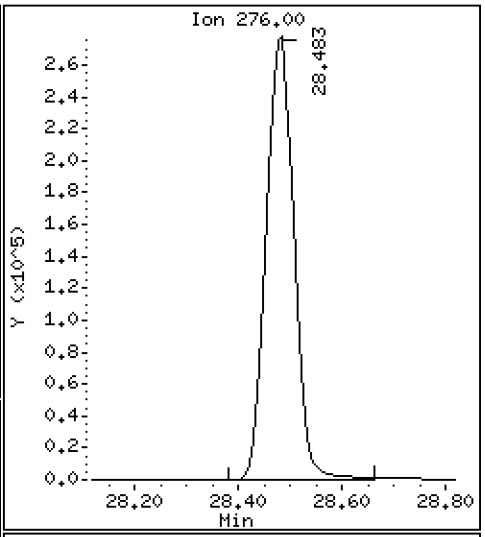
Column phase: ZB-5msi

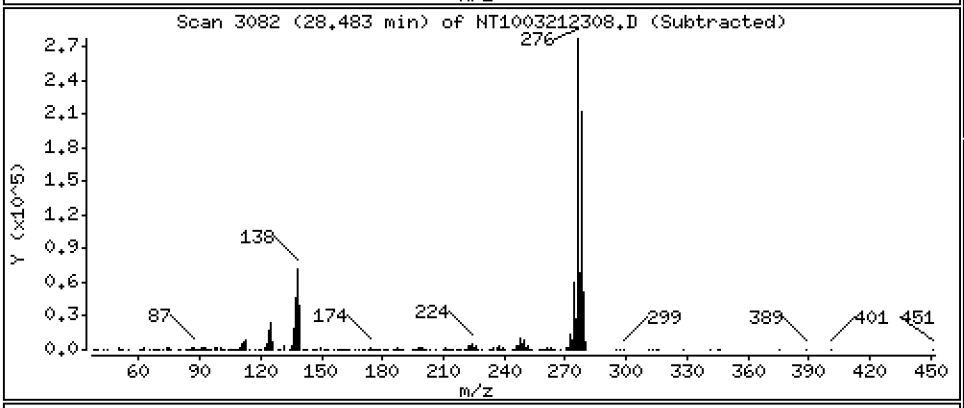
Column diameter: 0.25

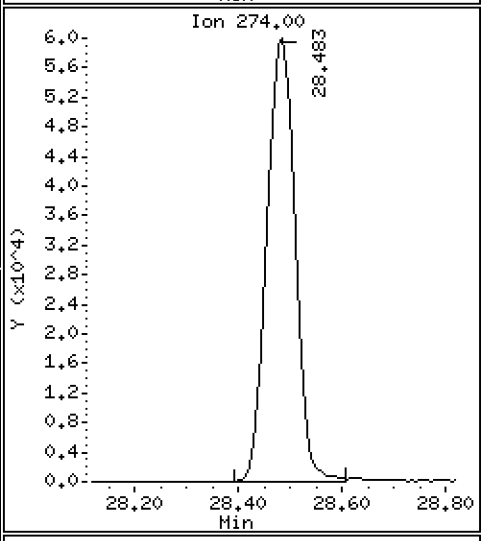
78 Indeno(1,2,3-cd)pyrene

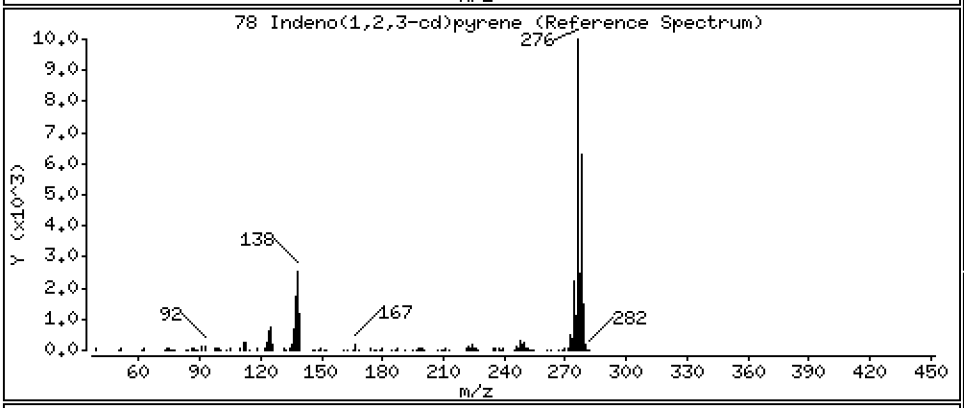
Concentration: 4.619 ug/mL

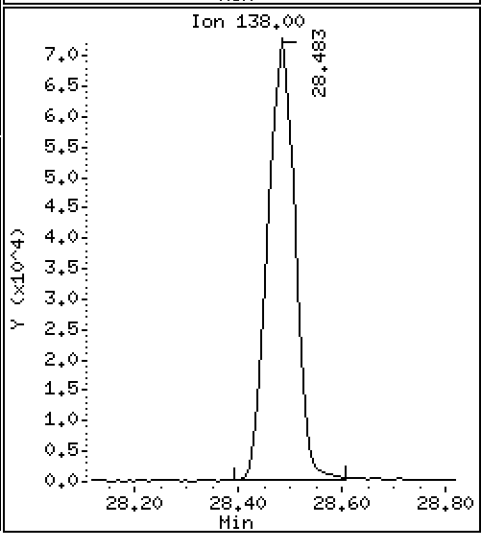


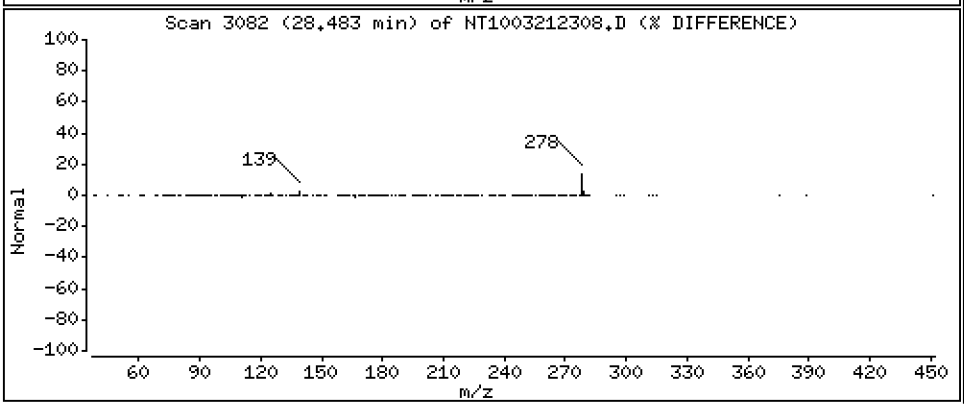












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Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD1

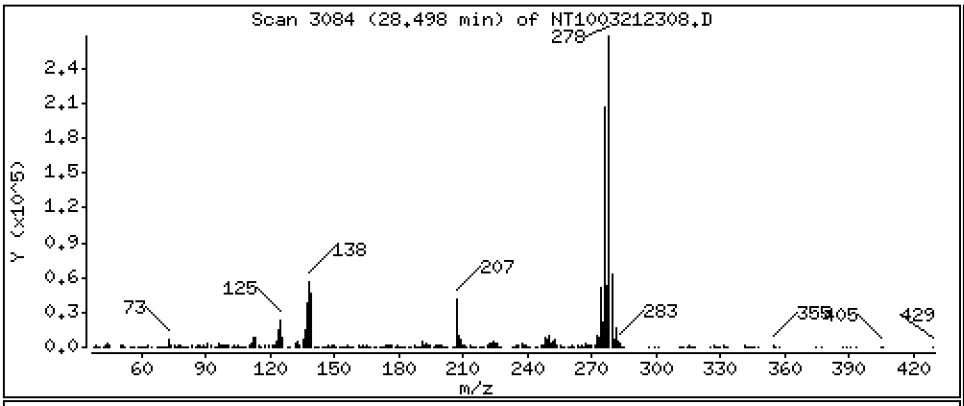
Operator: VTS

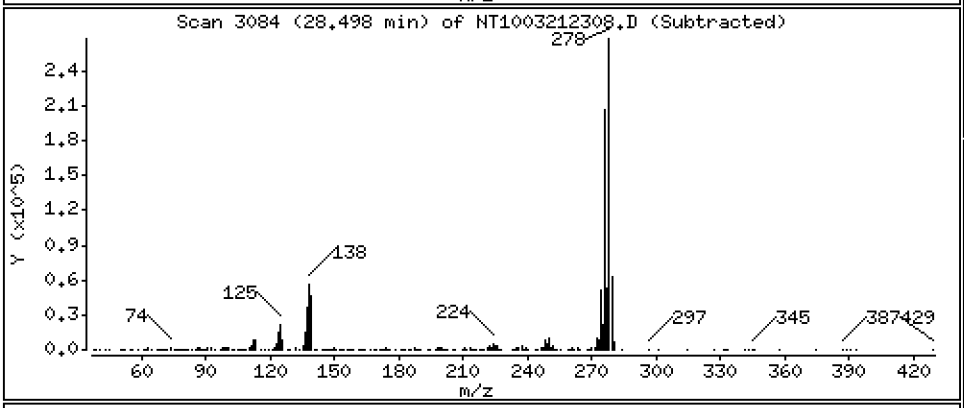
Column phase: ZB-5msi

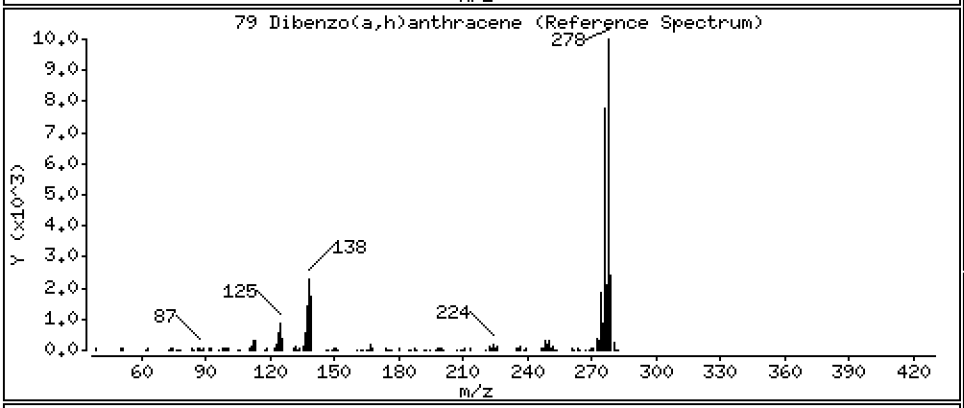
Column diameter: 0.25

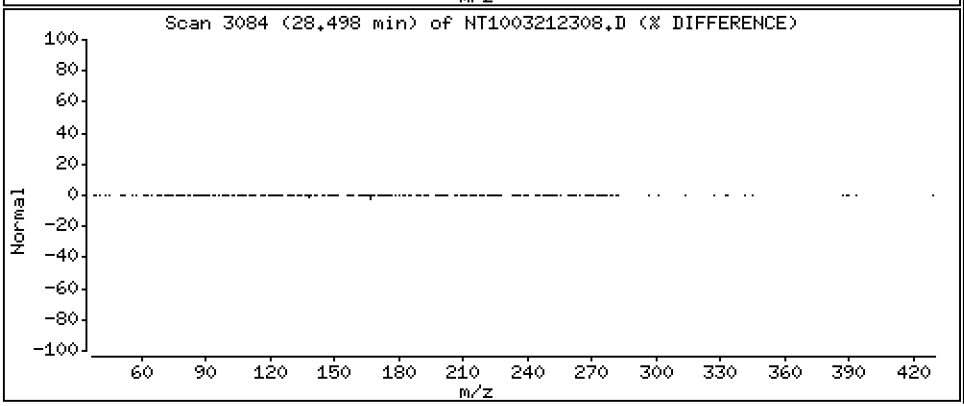
79 Dibenzo(a,h)anthracene

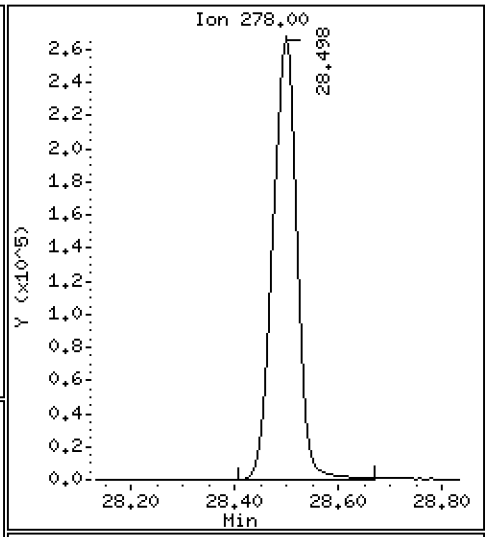
Concentration: 4.687 ug/mL

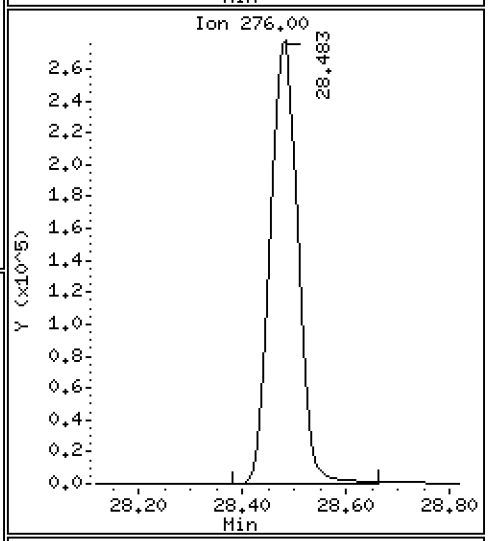


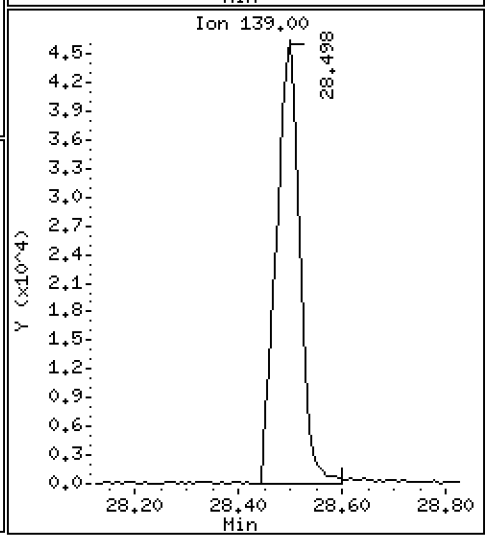












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Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD1

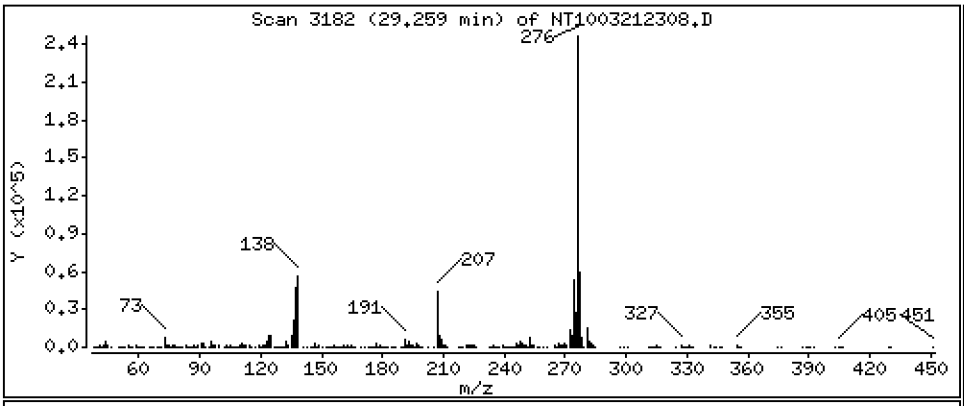
Operator: VTS

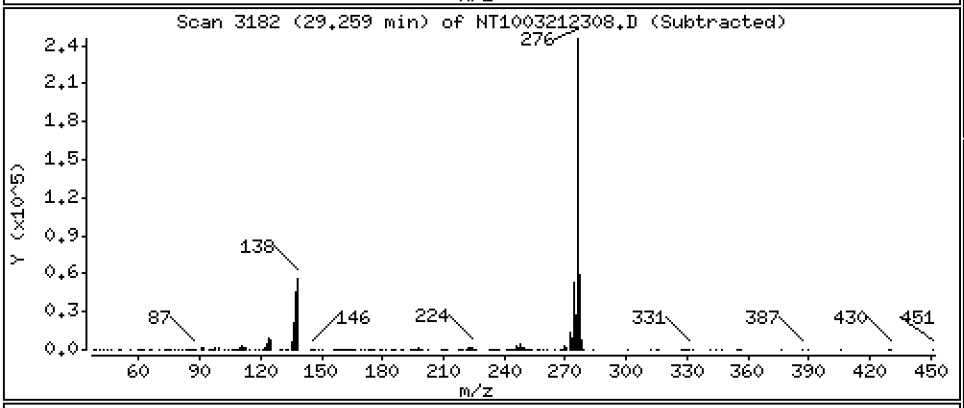
Column phase: ZB-5msi

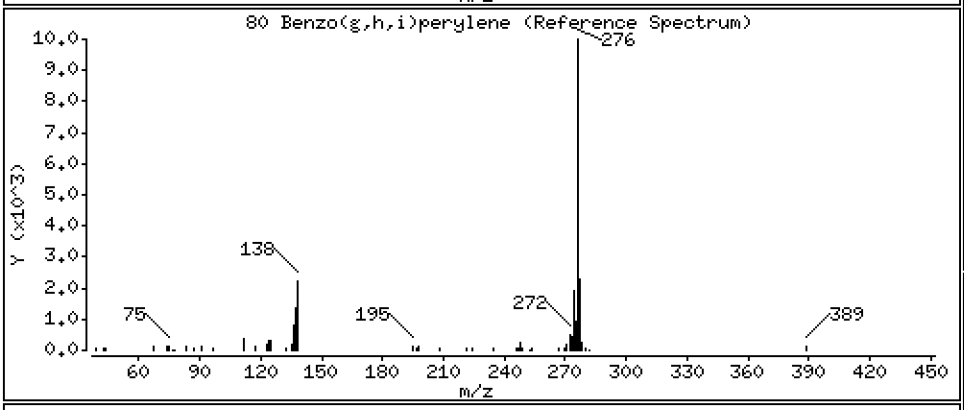
Column diameter: 0.25

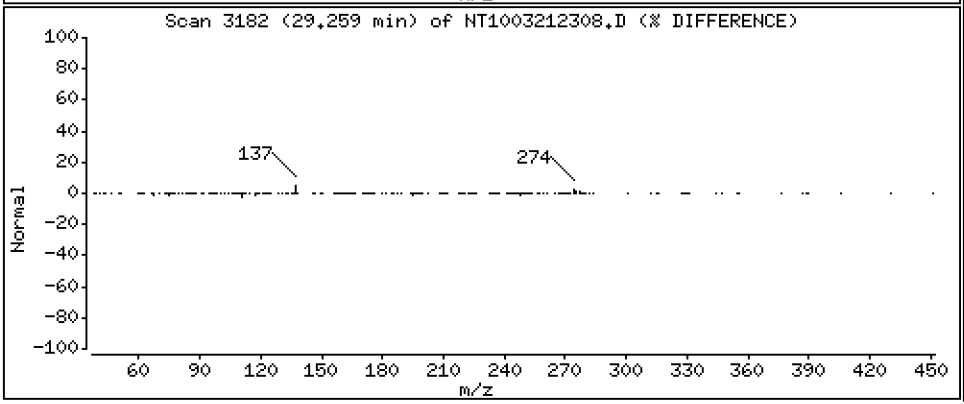
80 Benzo(g,h,i)perylene

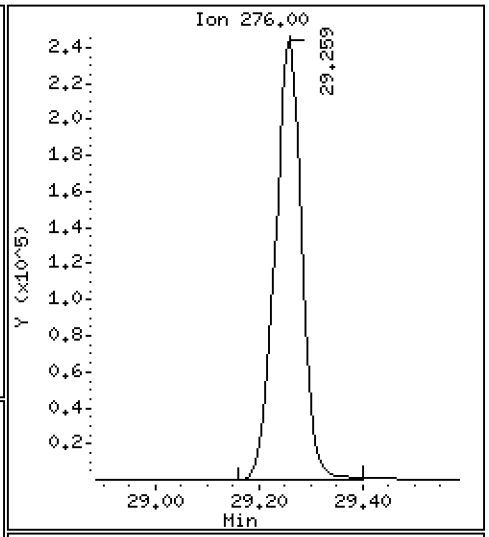
Concentration: 4.549 ug/mL

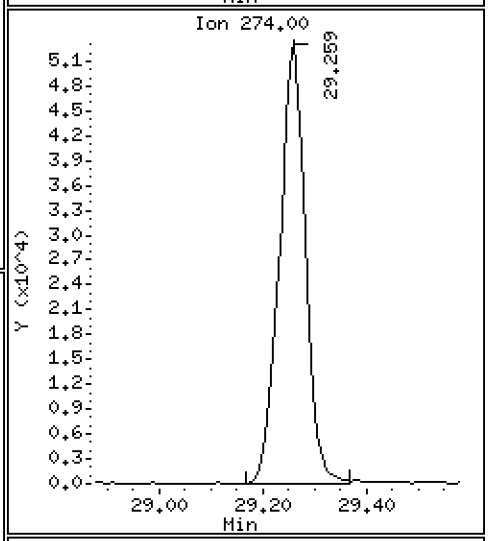


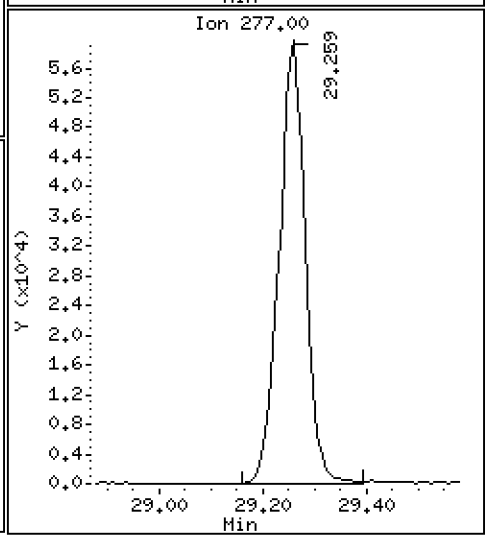












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Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD1

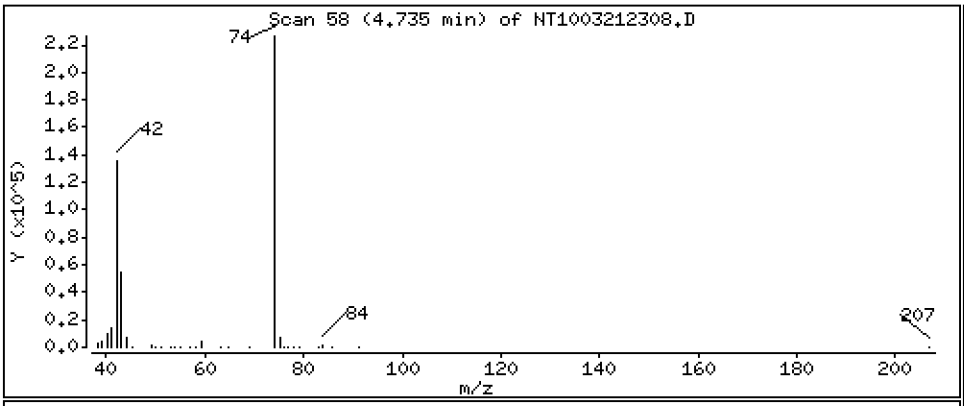
Operator: VTS

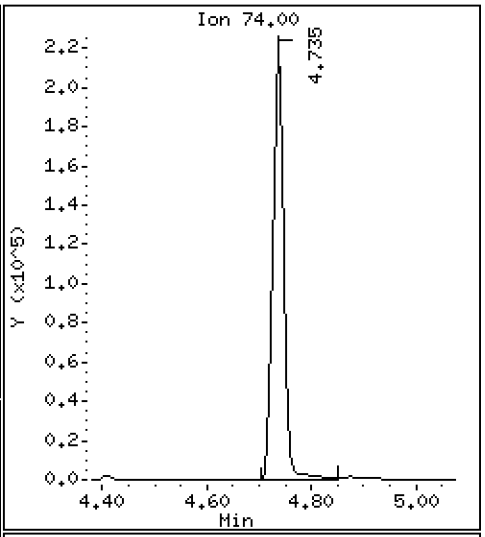
Column phase: ZB-5msi

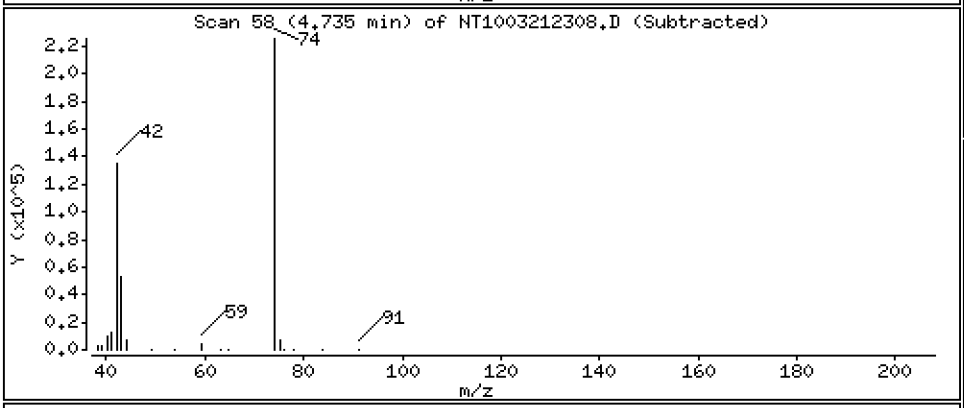
Column diameter: 0.25

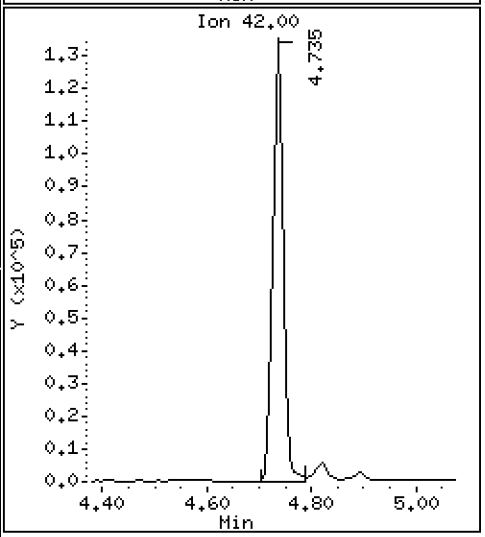
90 N-Nitrosodimethylamine

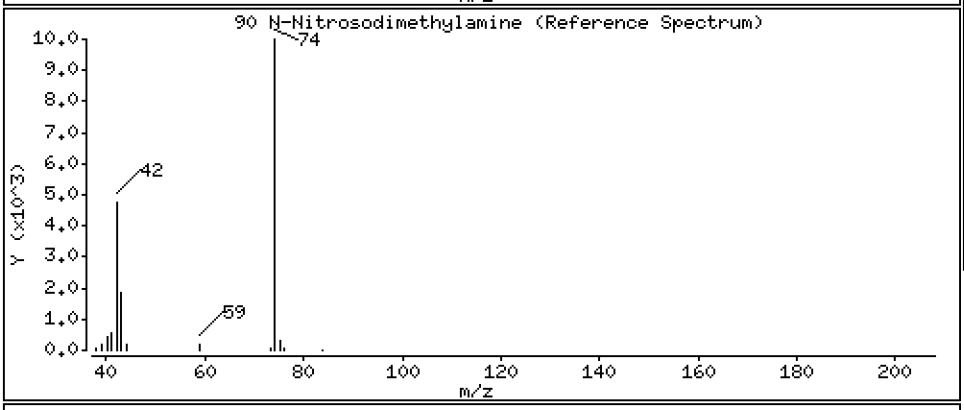
Concentration: 9.058 ug/mL

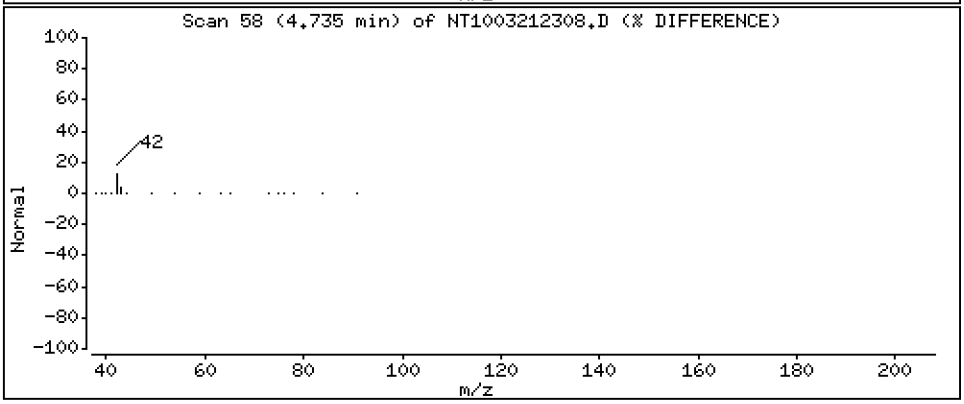












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212308.D

Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD1

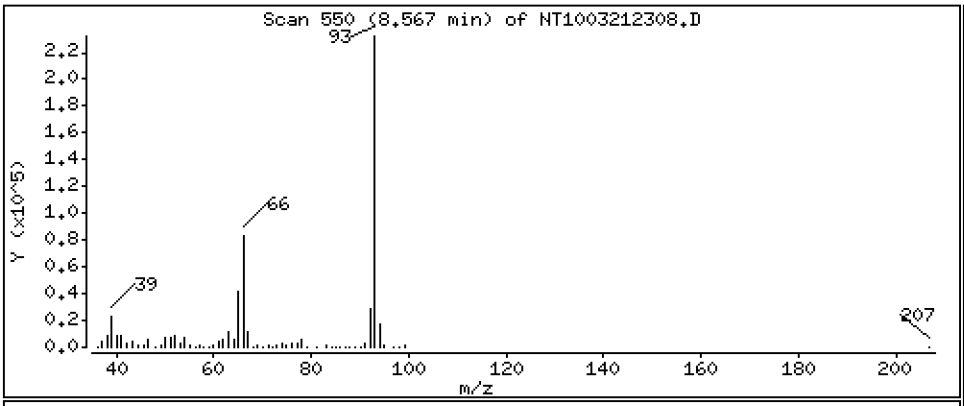
Operator: VTS

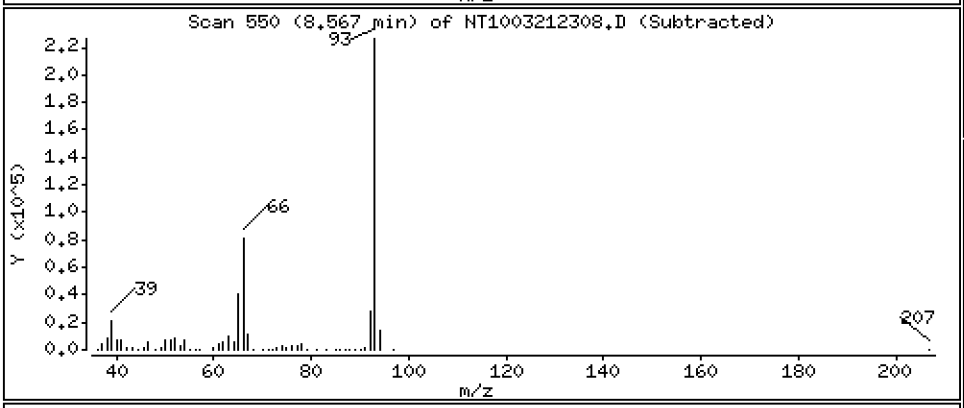
Column phase: ZB-5msi

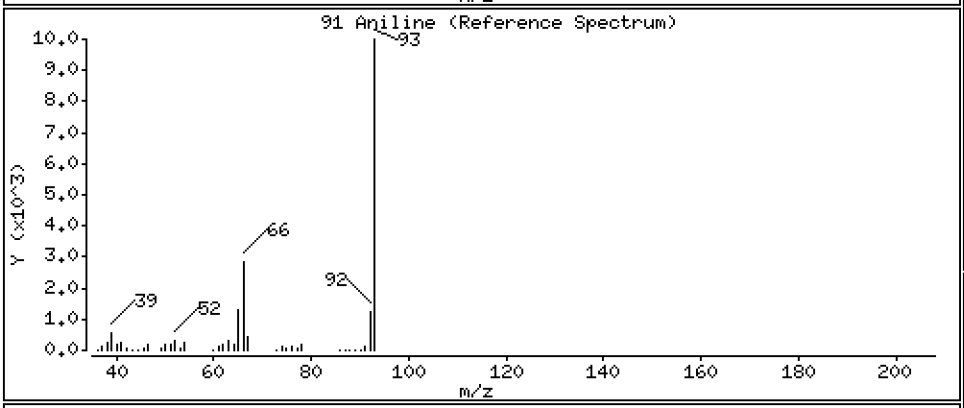
Column diameter: 0.25

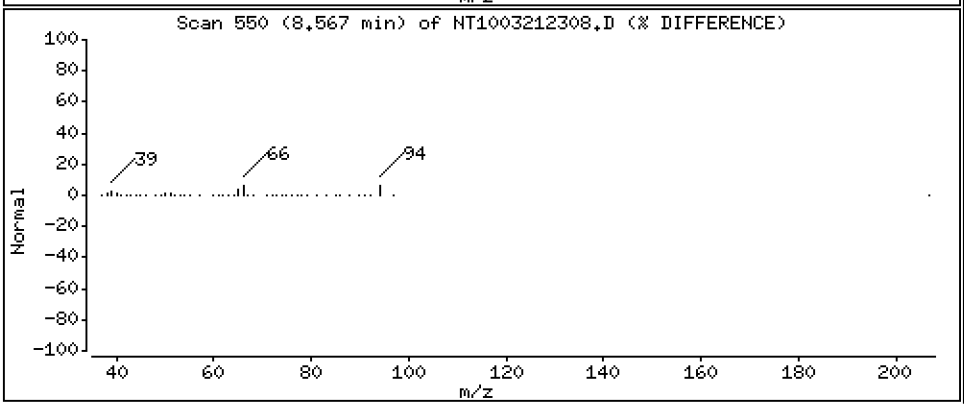
91 Aniline

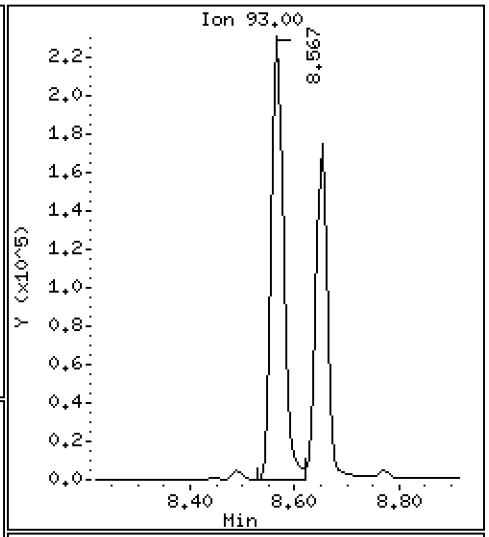
Concentration: 4.680 ug/mL

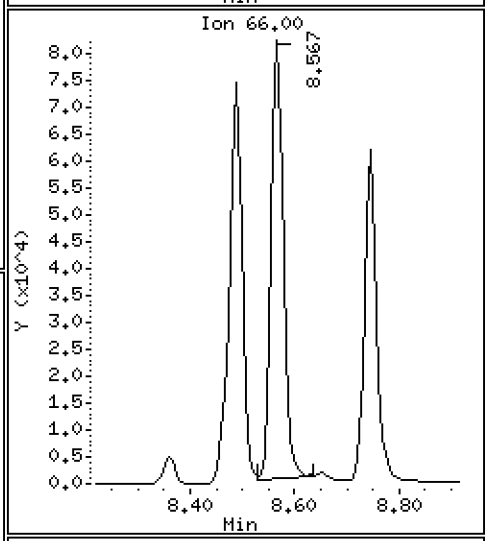


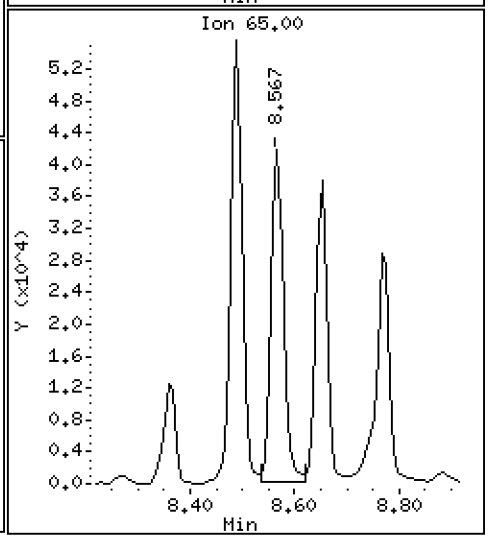












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Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD1

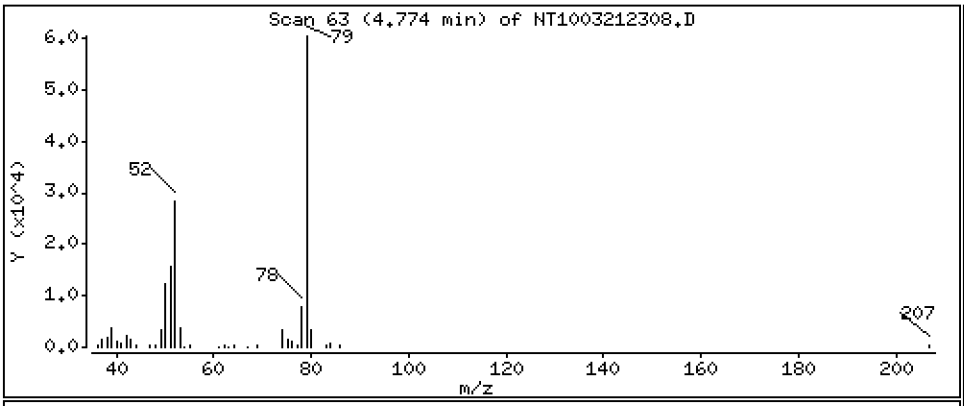
Operator: VTS

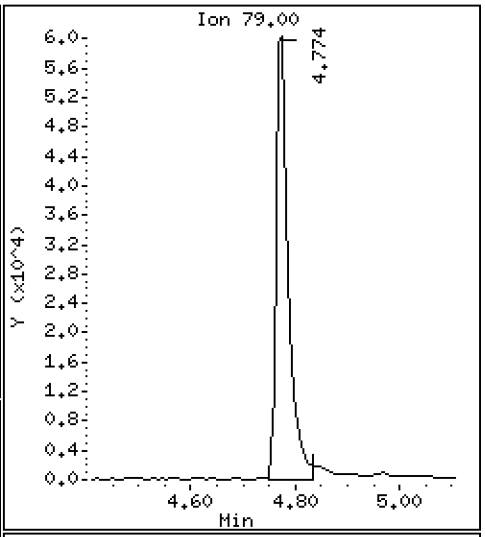
Column phase: ZB-5msi

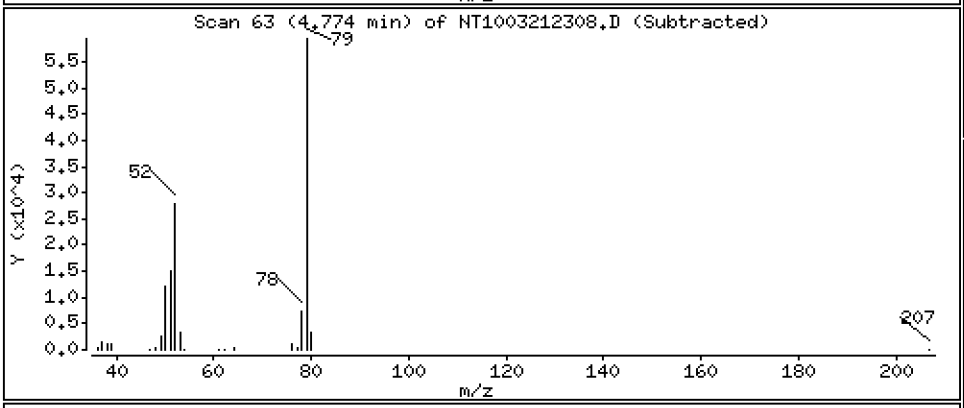
Column diameter: 0.25

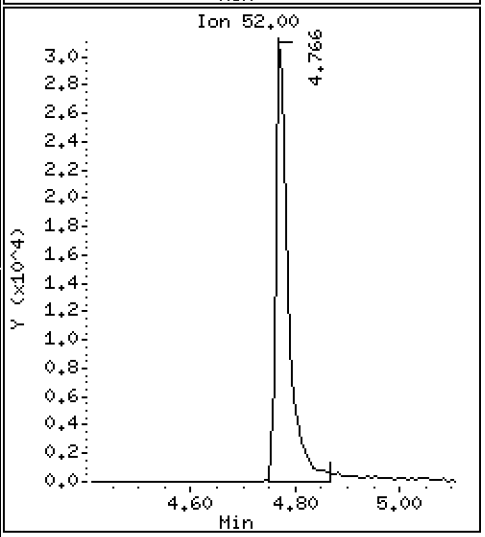
103 Pyridine

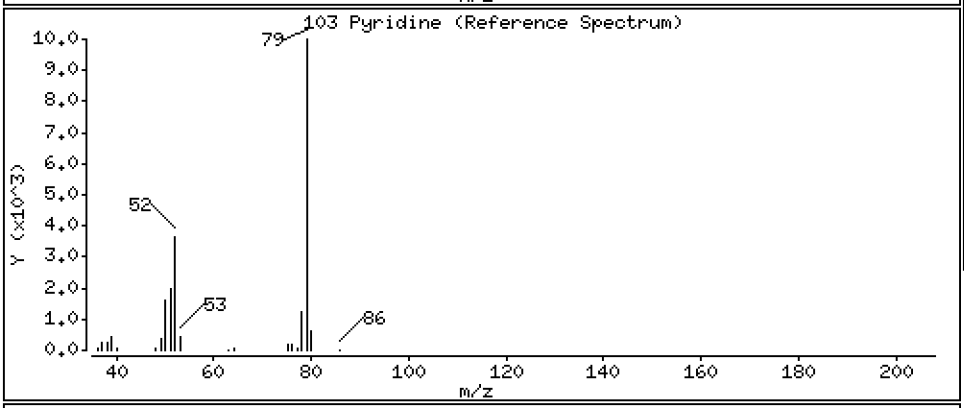
Concentration: 1.894 ug/mL

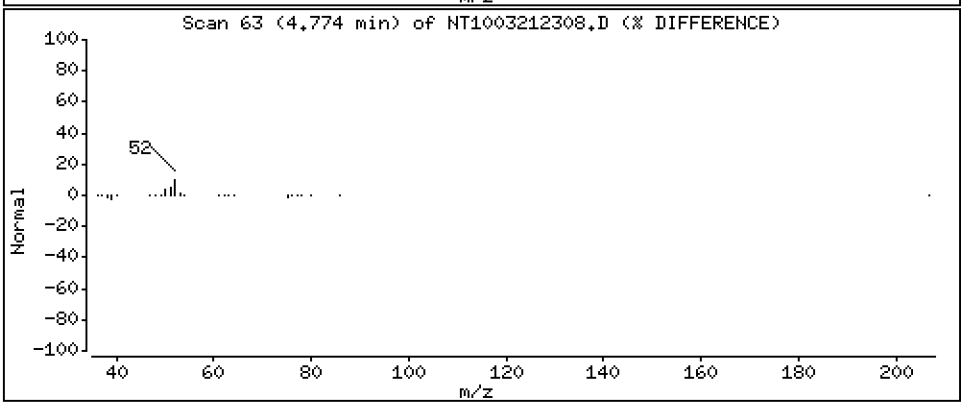












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Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD1

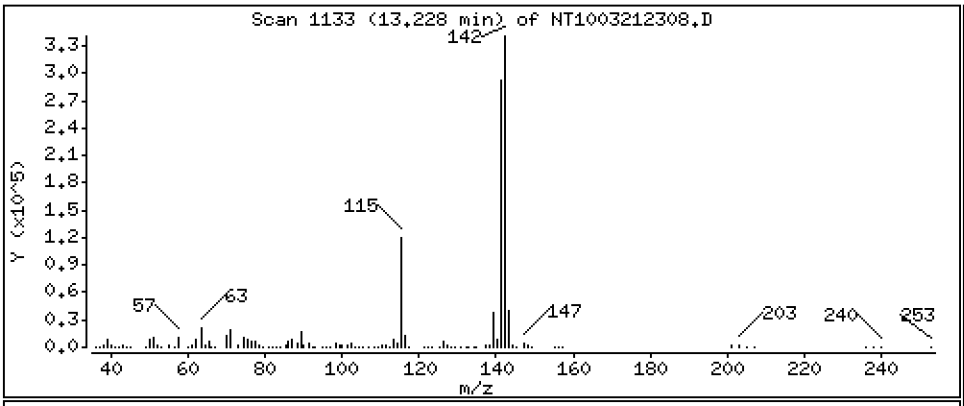
Operator: VTS

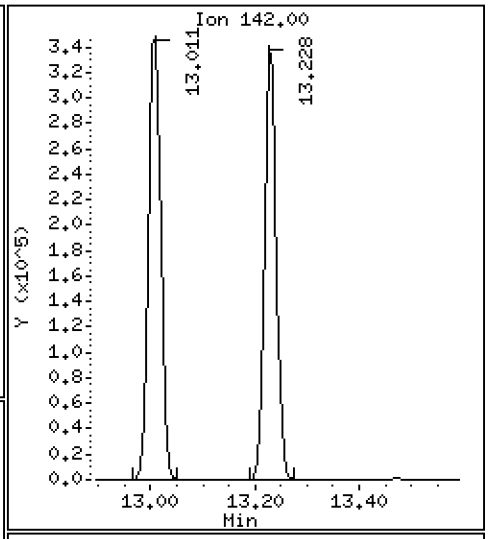
Column phase: ZB-5msi

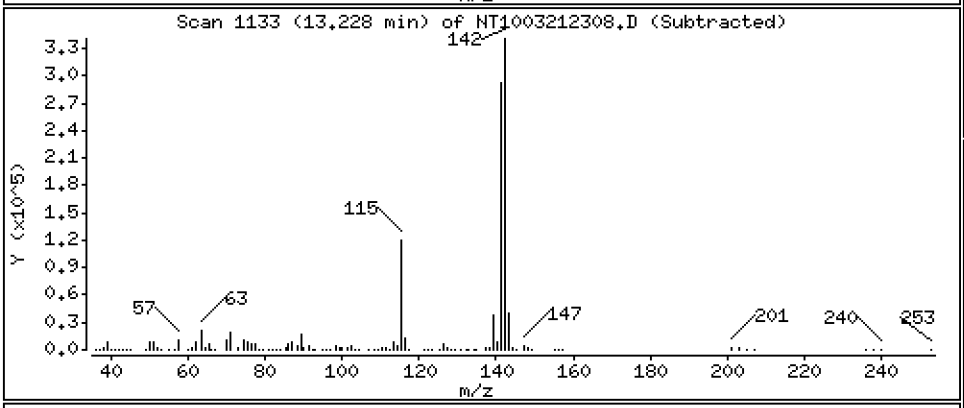
Column diameter: 0.25

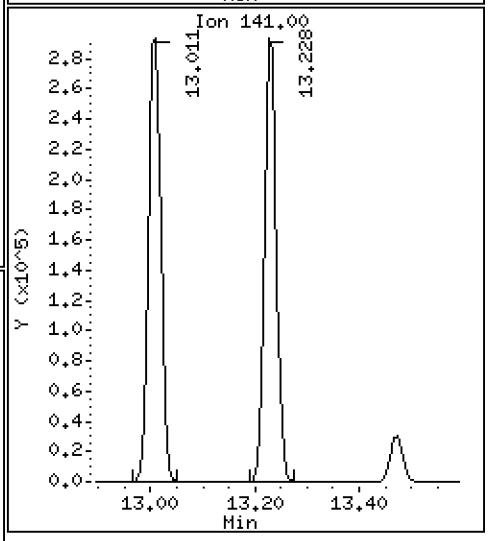
105 1-methylnaphthalene

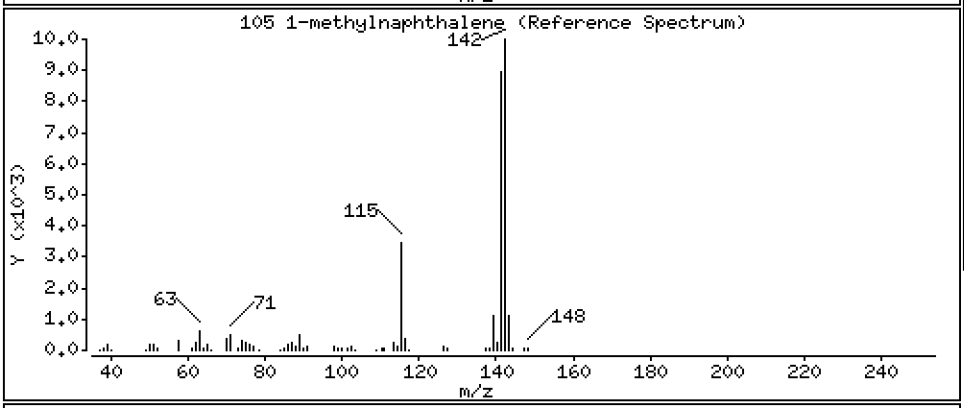
Concentration: 4.526 ug/mL

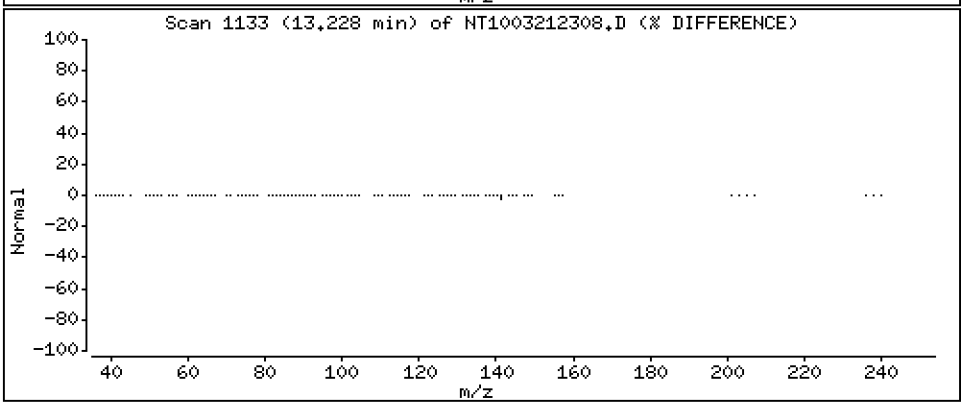












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Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD1

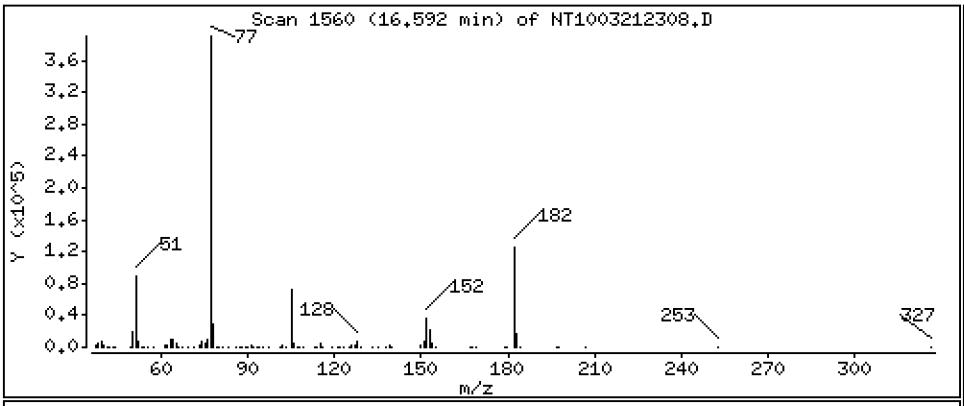
Operator: VTS

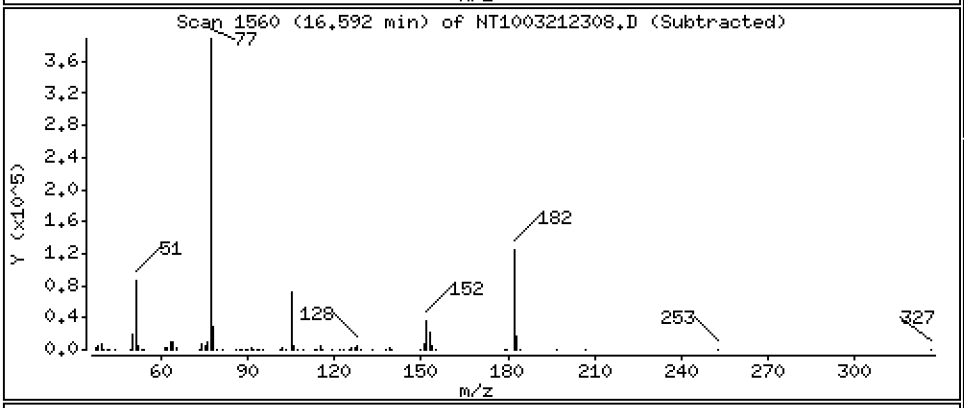
Column phase: ZB-5msi

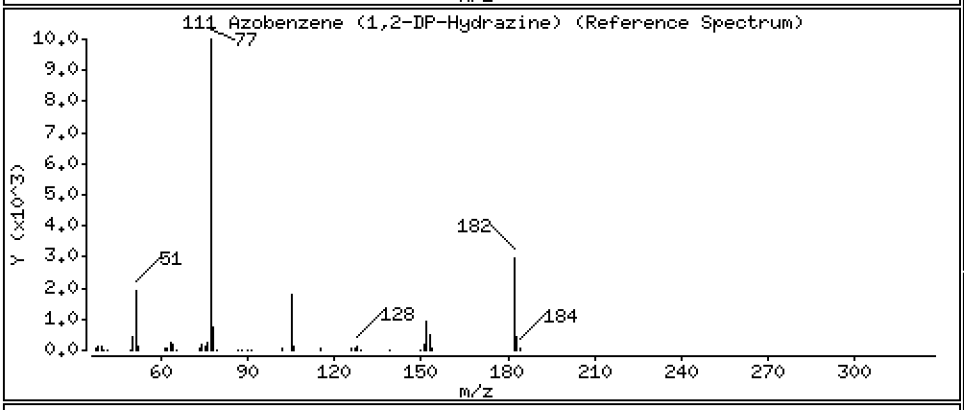
Column diameter: 0.25

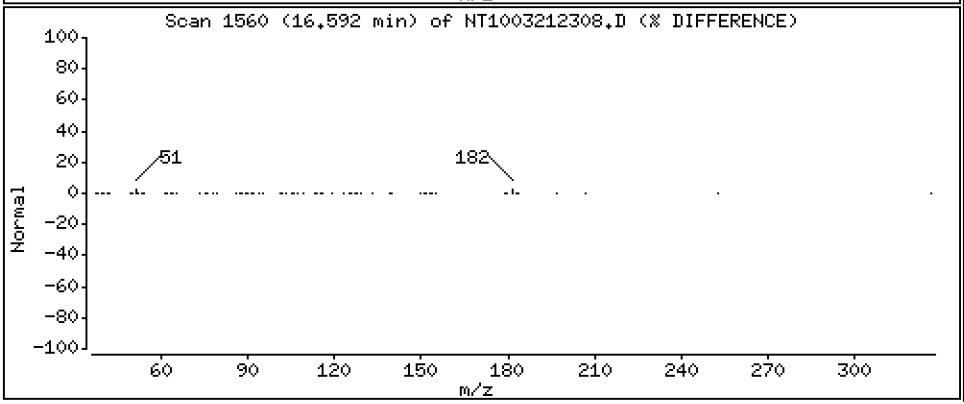
111 Azobenzene (1,2-DP-Hydrazine)

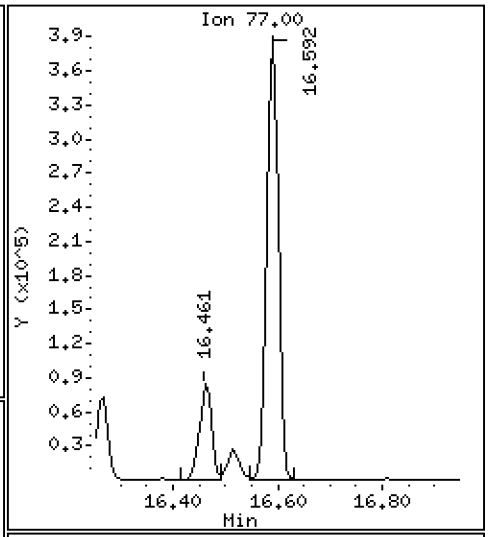
Concentration: 4.129 ug/mL

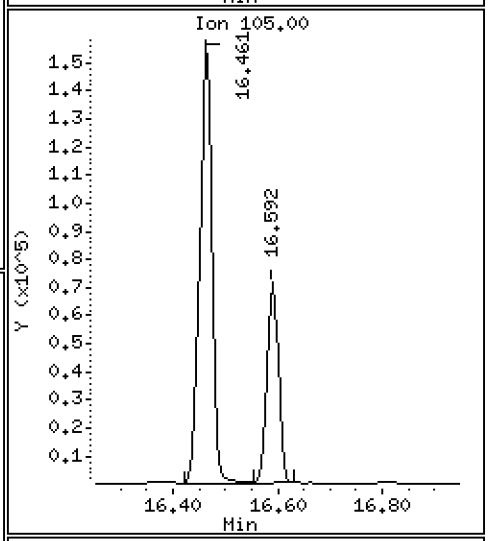


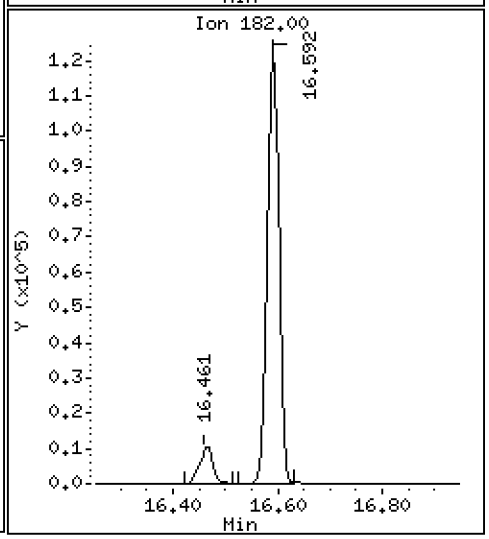












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Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD1

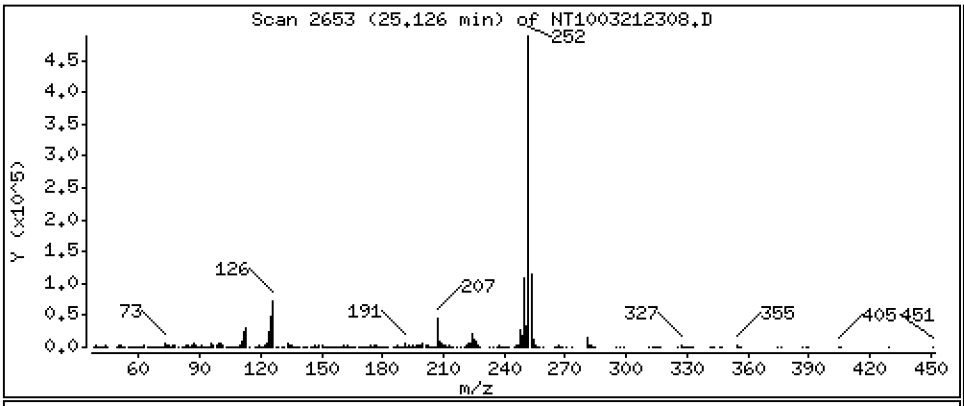
Operator: VTS

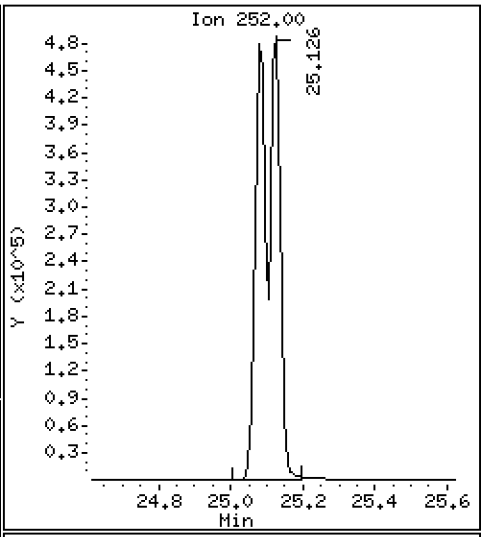
Column phase: ZB-5msi

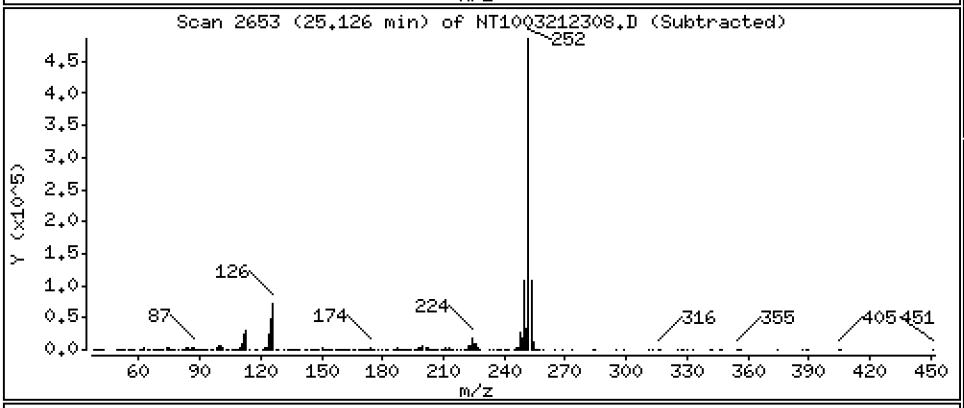
Column diameter: 0.25

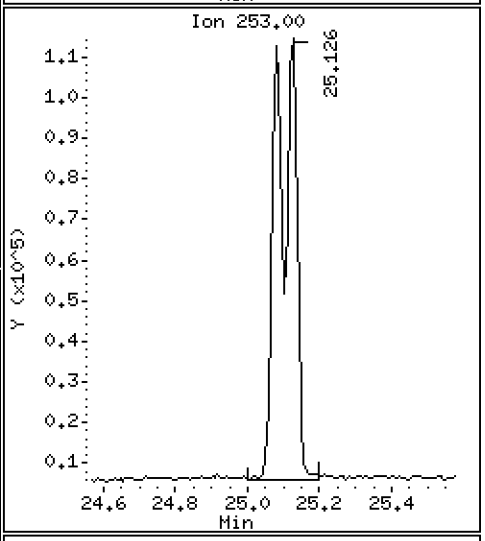
187 Total Benzofluoranthenes

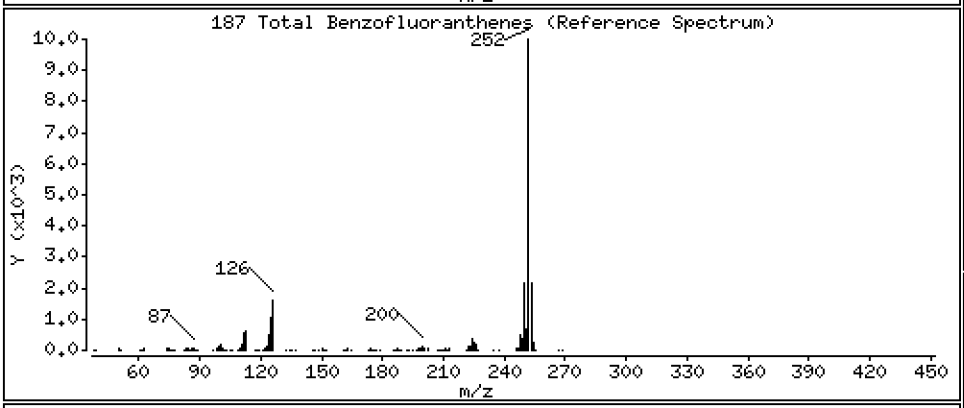
Concentration: 9.732 ug/mL

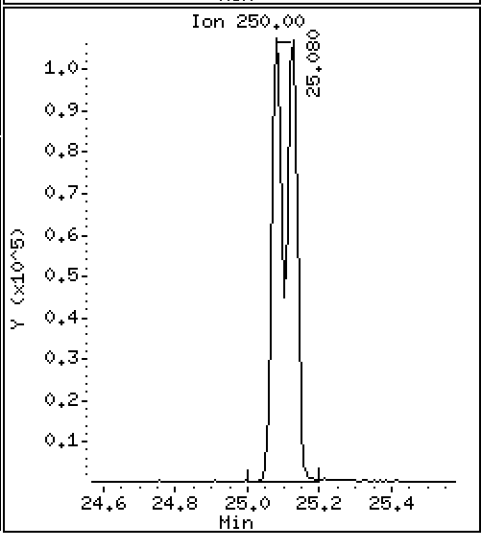


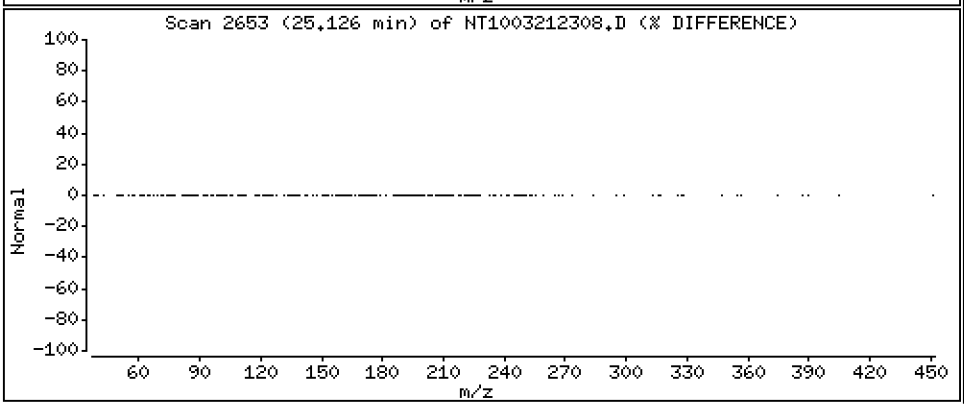












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Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD1

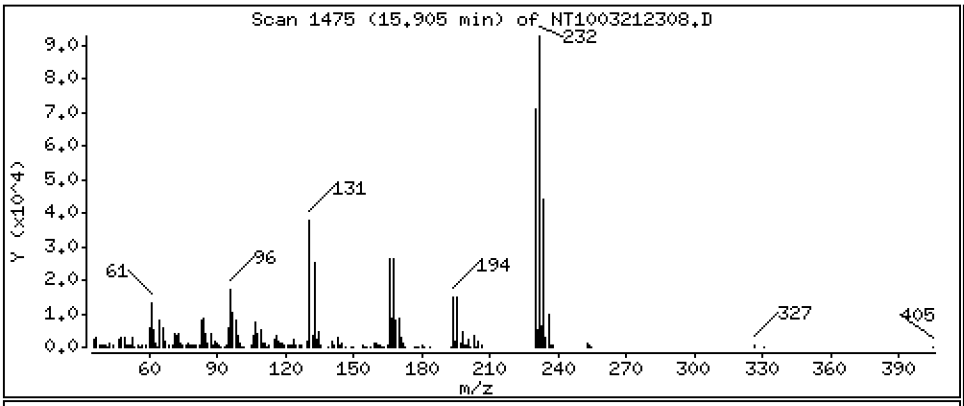
Operator: VTS

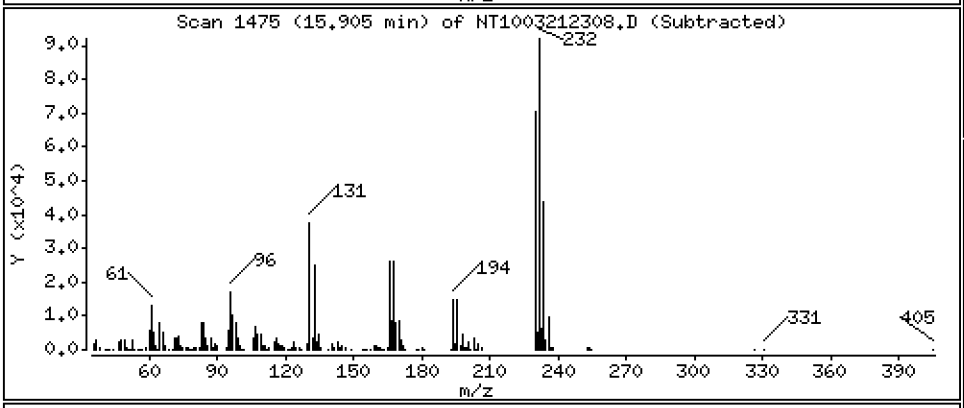
Column phase: ZB-5msi

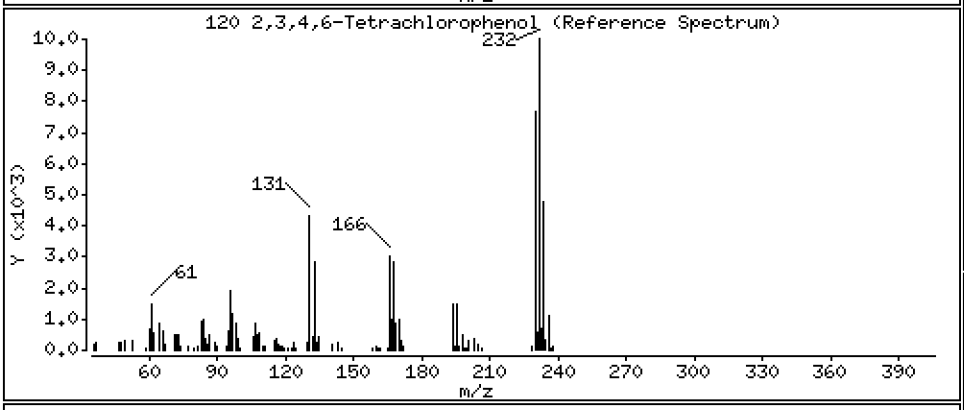
Column diameter: 0.25

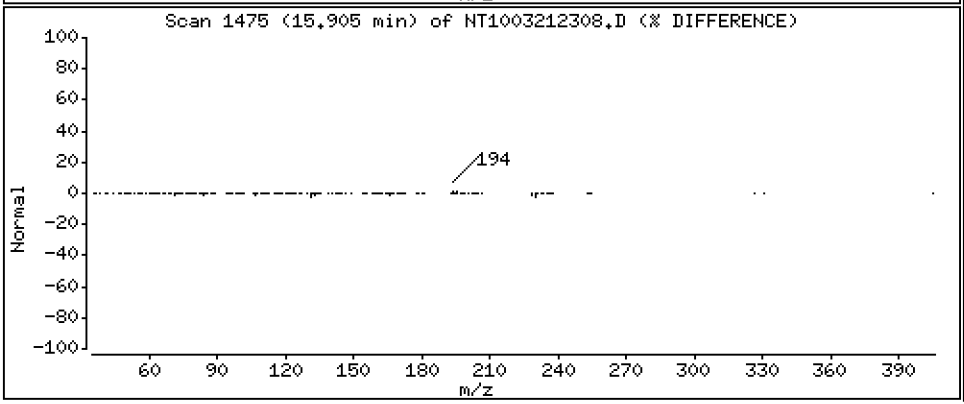
120 2,3,4,6-Tetrachlorophenol

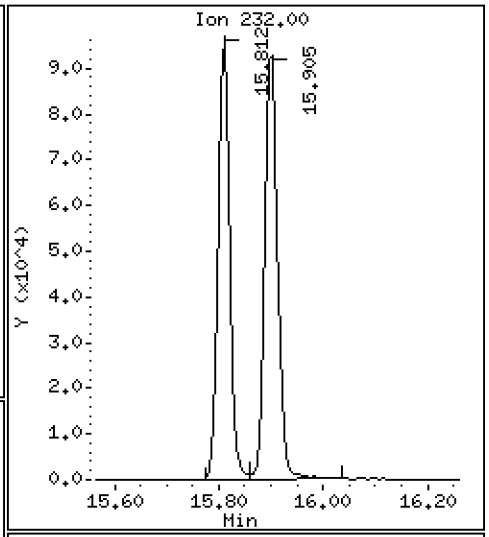
Concentration: 4.440 ug/mL

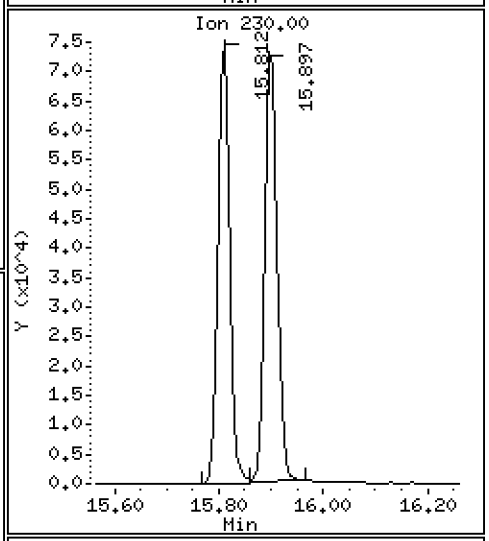


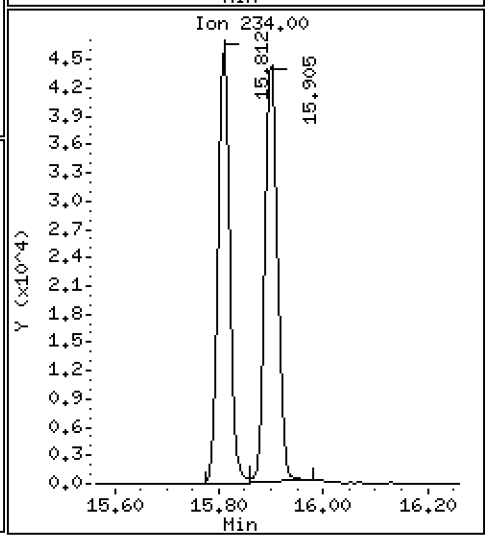












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230321.b\NT1003212308.D
Lab Smp Id: BLC0109-BSD1
Inj Date : 21-MAR-2023 21:39
Operator : VTS Inst ID: nt10.i
Smp Info : BLC0109-BSD1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230321.b\ABN.m
Meth Date : 29-Mar-2023 06:54 van Quant Type: ISTD
Cal Date : 16-MAR-2023 00:22 Cal File: NT10031508.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

							CONCENTRATIONS		
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)	
$	1 2-Fluorophenol	112	6.890	6.889	(0.728)	319906	5.83699	5.837	
$	2 Phenol-d5	99	8.466	8.473	(0.894)	436653	6.07321	6.073	
	3 Phenol	94	8.489	8.497	(0.897)	292024	3.90858	3.909	
$	5 2-Chlorophenol-d4	132	8.744	8.744	(0.924)	392165	6.38747	6.387	
	4 Bis(2-Chloroethyl)ether	93	8.651	8.659	(0.914)	247692	4.46990	4.470	
	6 2-Chlorophenol	128	8.775	8.775	(0.927)	276603	4.32568	4.326	
	7 1,3-Dichlorobenzene	146	9.038	9.045	(0.955)	278987	4.12688	4.127	
*	8 1,4-Dichlorobenzene-d4	152	9.100	9.108	(1.000)	181232	4.00000	(H)	
	9 1,4-Dichlorobenzene	146	9.131	9.139	(0.965)	276635	4.23603	4.236	
$	10 1,2-Dichlorobenzene-d4	152	9.465	9.465	(1.000)	181666	4.12018	4.120	
	12 1,2-Dichlorobenzene	146	9.488	9.496	(1.002)	271659	4.22685	4.227	
	11 Benzyl alcohol	108	9.372	9.379	(0.990)	151454	4.31883	4.319	
	14 2,2'-oxybis(1-Chloropropane)	121	9.675	9.682	(1.022)	89917	4.76400	4.764	
	13 2-Methylphenol	108	9.597	9.604	(1.014)	179687	3.29920	3.299	
	17 Hexachloroethane	117	10.078	10.086	(1.065)	110491	4.12374	4.124	
	16 N-Nitroso-di-n-propylamine	70	9.931	9.938	(1.049)	176819	4.11157	4.112	
	15 4-Methylphenol	108	9.876	9.876	(1.043)	220425	3.84109	3.841	
$	18 Nitrobenzene-d5	82	10.195	10.202	(0.880)	277259	4.11131	4.111	
	19 Nitrobenzene	77	10.226	10.241	(0.883)	273397	4.13100	4.131	
	20 Isophorone	82	10.676	10.683	(0.922)	506319	5.98033	5.980	
	21 2-Nitrophenol	139	10.850	10.858	(0.937)	171492	5.29886	5.299	
	22 2,4-Dimethylphenol	107	10.910	10.918	(0.942)	147406	2.42491	2.425	
	23 Bis(2-Chloroethoxy)methane	93	11.105	11.113	(0.959)	275573	4.87277	4.873	
	24 Benzoic acid	105	11.147	11.113	(0.963)	1114772	30.6086	30.61	
	25 2,4-Dichlorophenol	162	11.308	11.316	(0.977)	732067	15.0491	15.05	
	26 1,2,4-Trichlorobenzene	180	11.495	11.502	(0.993)	239688	4.19756	4.198	
*	27 Naphthalene-d8	136	11.580	11.587	(1.000)	668127	4.00000		
	28 Naphthalene	128	11.619	11.626	(1.003)	746055	4.21508	4.215	
	29 4-Chloroaniline	127	11.750	11.757	(1.015)	320737	4.64502	4.645	
	30 Hexachlorobutadiene	225	11.982	11.989	(1.035)	151916	4.54045	4.540	
	31 4-Chloro-3-methylphenol	107	12.709	12.716	(1.097)	733994	13.9381	13.94	
	32 2-Methylnaphthalene	142	13.011	13.018	(1.124)	543656	4.25625	4.256	
	33 Hexachlorocyclopentadiene	237	13.475	13.483	(0.888)	399528	11.3229	11.32	

		QUANT SIG					CONCENTRATIONS ON-COLUMN	CONCENTRATIONS FINAL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug/mL)
34	2,4,6-Trichlorophenol	196	13.630	13.637	(0.898)	537845	14.2731	14.27
35	2,4,5-Trichlorophenol	196	13.700	13.707	(0.903)	584040	13.9488	13.95
$ 36	2-Fluorobiphenyl	172	13.785	13.800	(0.908)	632339	4.19280	4.193
37	2-Chloronaphthalene	162	13.994	14.009	(0.922)	512425	4.19619	4.196
38	2-Nitroaniline	65	14.257	14.272	(0.939)	452042	13.1780	13.18
39	Dimethylphthalate	163	14.690	14.698	(0.968)	587313	4.74194	4.742
40	Acenaphthylene	152	14.861	14.876	(0.979)	757793	3.98237	3.982
41	2,6-Dinitrotoluene	165	14.830	14.837	(0.977)	421070	15.7377	15.74
* 42	Acenaphthene-d10	164	15.178	15.185	(1.000)	381259	4.00000	
43	3-Nitroaniline	138	15.108	15.116	(0.995)	252389	8.35752	8.358
44	Acenaphthene	153	15.240	15.247	(1.004)	509741	4.33615	4.336
45	2,4-Dinitrophenol	184	15.317	15.324	(1.009)	529191	30.7140	30.71
46	Dibenzofuran	168	15.564	15.572	(1.025)	739884	4.26805	4.268
47	4-Nitrophenol	109	15.425	15.432	(1.016)	226410	12.0099	12.01
48	2,4-Dinitrotoluene	165	15.626	15.641	(1.030)	577748	14.6178	14.62
50	Diethylphthalate	149	16.137	16.144	(1.063)	609235	5.01343	5.013
49	Fluorene	166	16.276	16.283	(1.072)	607949	4.45767	4.458
51	4-Chlorophenyl-phenylether	204	16.268	16.275	(1.072)	303852	4.68515	4.685
52	4-Nitroaniline	138	16.376	16.375	(1.079)	268296	9.85836	9.858
53	4,6-Dinitro-2-methylphenol	198	16.461	16.468	(0.904)	649679	30.2366	30.24
54	N-Nitrosodiphenylamine	169	16.515	16.522	(0.907)	357389	3.88767	3.888
$ 55	2,4,6-Tribromophenol	330	16.808	16.815	(1.107)	144804	8.15961	8.160
56	4-Bromophenyl-phenylether	248	17.263	17.270	(0.949)	199250	5.18101	5.181
57	Hexachlorobenzene	284	17.580	17.587	(0.966)	194149	4.81511	4.815
58	Pentachlorophenol	266	17.936	17.943	(0.986)	379753	15.4437	15.44
* 59	Phenanthrene-d10	188	18.199	18.206	(1.000)	687593	4.00000	
60	Phenanthrene	178	18.245	18.252	(1.003)	832062	4.43786	4.438
61	Anthracene	178	18.330	18.338	(1.007)	722693	4.01824	4.018
62	Carbazole	167	18.663	18.670	(1.026)	592023	3.67340	3.673
63	Di-n-butylphthalate	149	19.468	19.475	(1.070)	1108835	5.14507	5.145
64	Fluoranthene	202	20.620	20.620	(0.887)	998826	4.31224	4.312
65	Pyrene	202	21.046	21.046	(0.906)	1014297	4.26881	4.269
$ 66	Terphenyl-d14	244	21.332	21.332	(0.918)	806761	4.52124	4.521
67	Butylbenzylphthalate	149	22.261	22.261	(0.958)	435202	5.05262	5.053
68	Benzo(a)anthracene	228	23.206	23.198	(0.999)	913444	4.48939	4.489
* 69	Chrysene-d12	240	23.237	23.229	(1.000)	576445	4.00000	
70	3,3'-Dichlorobenzidine	252	23.167	23.159	(0.997)	501278	7.69146	7.691
71	Chrysene	228	23.276	23.275	(1.002)	857326	4.31286	4.313
72	bis(2-Ethylhexyl)phthalate	149	23.291	23.283	(0.959)	634833	4.64110	4.641
* 134	Di-n-octylphthalate-d4	153	24.274	24.266	(1.000)	932488	4.00000	
73	Di-n-octylphthalate	149	24.290	24.282	(1.001)	1154302	4.73025	4.730
74	Benzo(b)fluoranthene	252	25.080	25.071	(0.970)	957524	4.86093	4.861
75	Benzo(k)fluoranthene	252	25.126	25.118	(0.972)	987188	4.93543	4.935
76	Benzo(a)pyrene	252	25.730	25.722	(0.996)	803541	4.56261	4.563
* 77	Perylene-d12	264	25.846	25.830	(1.000)	607691	4.00000	
78	Indeno(1,2,3-cd)pyrene	276	28.482	28.466	(1.102)	1034879	4.61876	4.619
79	Dibenzo(a,h)anthracene	278	28.498	28.482	(1.103)	871820	4.68671	4.687
80	Benzo(g,h,i)perylene	276	29.259	29.235	(1.132)	882001	4.54862	4.549
90	N-Nitrosodimethylamine	74	4.735	4.727	(0.500)	316724	9.05819	9.058
91	Aniline	93	8.566	8.566	(0.905)	358247	4.67959	4.680
93	Benzidine	184	Compound Not Detected.					
103	Pyridine	79	4.774	4.758	(0.504)	101725	1.89433	1.894
105	1-methylnaphthalene	142	13.228	13.243	(1.142)	529662	4.52591	4.526
111	Azobenzene (1,2-DP-Hydrazine)	77	16.592	16.599	(1.093)	560517	4.12915	4.129

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.126	25.118	(0.972)	1850936	9.73191	9.732
120 2,3,4,6-Tetrachlorophenol	232	15.904	15.912	(1.048)	175305	4.43987	4.440

QC Flag Legend

H - Operator selected an alternate compound hit.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1003212308.D
Lab Smp Id: BLC0109-BSD1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230321.b\ABN.m
Misc Info:

Calibration Date: 21-MAR-2023
Calibration Time: 17:46
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	138414	69207	276828	181232	30.93
27 Naphthalene-d8	511348	255674	1022696	668127	30.66
42 Acenaphthene-d10	293241	146621	586482	381259	30.02
59 Phenanthrene-d10	535484	267742	1070968	687593	28.41
69 Chrysene-d12	464733	232367	929466	576445	24.04
134 Di-n-octylphthala	716354	358177	1432708	932488	30.17
77 Perylene-d12	509704	254852	1019408	607691	19.22

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.11	8.61	9.61	9.10	-0.08
27 Naphthalene-d8	11.59	11.09	12.09	11.58	-0.06
42 Acenaphthene-d10	15.19	14.69	15.69	15.18	-0.05
59 Phenanthrene-d10	18.21	17.71	18.71	18.20	-0.04
69 Chrysene-d12	23.23	22.73	23.73	23.24	0.04
134 Di-n-octylphthala	24.27	23.77	24.77	24.27	0.03
77 Perylene-d12	25.83	25.33	26.33	25.85	0.06

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

REVIEW SUMMARY FOR FILE - NT1003212308.D

Lab ID: BLC0109-BSD1
nt10.i, 20230321.b\ABN.m,   21-MAR-2023 21:39

RT	CO-ELUTION COMPOUNDS
NO CO-ELUTIONS	

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
NONE			

RRT check based on Ccal File: NT1003212302.D

On Column LOD for nt10.i, 20230321.b\ABN.m, ICAL.sub = 0.0000

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

Analytical Resources, LLC
Analytical Chemists and Consultants

LDW23-SS1048

MS / MS DUPLICATE RECOVERY
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Matrix:	Solid	Analyzed:	03/22/23 02:08
Batch:	BLC0109	Laboratory ID:	BLC0109-MS1
Preparation:	EPA 3546 (Microwave)	Sequence Name:	Matrix Spike
Initial/Final:	20 g / 1 mL	Source Sample:	LDW23-SS1048

COMPOUND	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	Q	MS CONCENTRATION (ug/kg dry)	Q	MS % REC. #	QC LIMITS REC.
Phenol	500	20.1		373		70.5	34 - 120
4-Methylphenol	500	10.9	J	370		71.8	29 - 120
Naphthalene	500	9.8	J	399		77.8	43 - 120
2-Methylnaphthalene	500	9.6	J	409		79.9	43 - 120
Acenaphthylene	500	6.3	J	390		76.7	42 - 120
Dimethylphthalate	500	6.0	J	449		88.6	43 - 120
Acenaphthene	500	7.2	J	413		81.1	45 - 120
Dibenzofuran	500	ND	U	423		84.6	43 - 120
Fluorene	500	ND	U	441		88.1	45 - 120
Phenanthrene	500	58.7		471		82.5	49 - 120
Anthracene	500	25.3		387		72.2	45 - 120
Fluoranthene	500	137		534		79.4	53 - 145
Pyrene	500	130		518		77.6	52 - 134
Butylbenzylphthalate	500	13.6	J	477		92.7	45 - 132
Benzo(a)anthracene	500	68.6		494		85.0	49 - 120
Chrysene	500	107		535		85.5	47 - 120
bis(2-Ethylhexyl)phthalate	500	79.8		547		93.4	34 - 130
Benzofluoranthenes, Total	1000	158		1110		94.9	30 - 160
Benzo(a)pyrene	500	63.9		476		82.4	42 - 120
Indeno(1,2,3-cd)pyrene	500	32.6		428		79.2	42 - 163
Dibenzo(a,h)anthracene	500	ND	U	416		83.2	30 - 133
Benzo(g,h,i)perylene	500	36.7		409		74.5	46 - 148

* Values outside of QC limits

MS / MS DUPLICATE RECOVERY
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Matrix:	Solid	Analyzed:	03/22/23 02:46
Batch:	BLC0109	Laboratory ID:	BLC0109-MSD1
Preparation:	EPA 3546 (Microwave)	Sequence Name:	Matrix Spike Dup
Initial/Final:	20 g / 1 mL	Source Sample:	LDW23-SS1048

COMPOUND	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	Q	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Phenol	500	338		63.6	9.68	30	34 - 120
4-Methylphenol	500	303		58.4	19.8	30	29 - 120
Naphthalene	500	385		75.1	3.52	30	43 - 120
2-Methylnaphthalene	500	392		76.5	4.16	30	43 - 120
Acenaphthylene	500	369		72.6	5.52	30	42 - 120
Dimethylphthalate	500	424		83.6	5.74	30	43 - 120
Acenaphthene	500	406		79.7	1.64	30	45 - 120
Dibenzofuran	500	406		81.2	4.10	30	43 - 120
Fluorene	500	476		95.3	7.81	30	45 - 120
Phenanthrene	500	544		97.0	14.2	30	49 - 120
Anthracene	500	368		68.6	4.77	30	45 - 120
Fluoranthene	500	668		106	22.2	30	53 - 145
Pyrene	500	623		98.5	18.3	30	52 - 134
Butylbenzylphthalate	500	444		86.0	7.21	30	45 - 132
Benzo(a)anthracene	500	504		87.0	1.98	30	49 - 120
Chrysene	500	596		97.8	10.9	30	47 - 120
bis(2-Ethylhexyl)phthalate	500	516		87.2	5.91	30	34 - 130
Benzofluoranthenes, Total	1000	1190		104	7.53	30	30 - 160
Benzo(a)pyrene	500	514		90.1	7.79	30	42 - 120
Indeno(1,2,3-cd)pyrene	500	435		80.6	1.64	30	42 - 163
Dibenzo(a,h)anthracene	500	392		78.5	5.90	30	30 - 133
Benzo(g,h,i)perylene	500	421		76.8	2.84	30	46 - 148

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212315.D

Page 1

Date : 22-MAR-2023 02:08

Client ID:

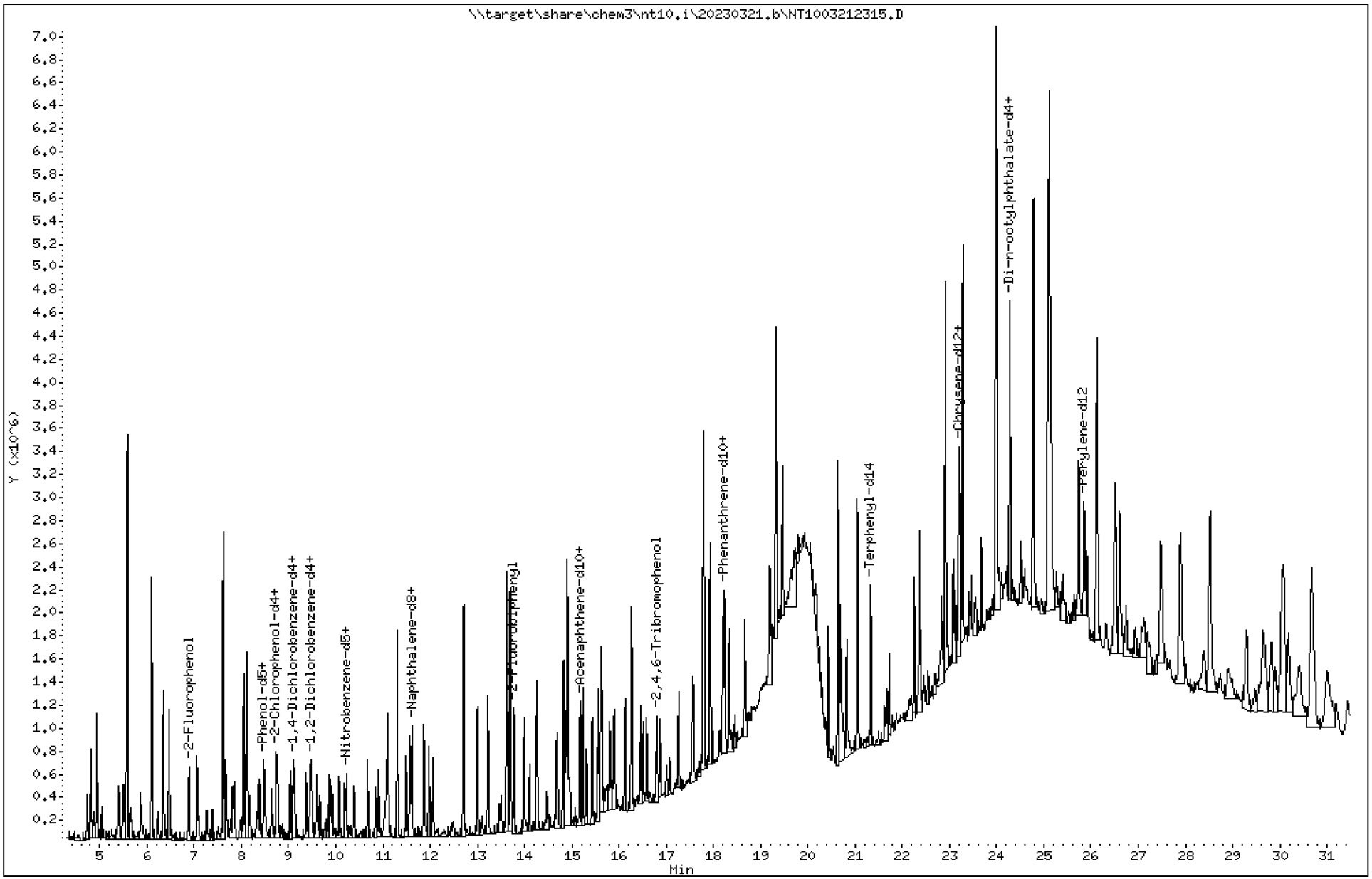
Instrument: nt10.i

Sample Info: BLC0109-MS1

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



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Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS1

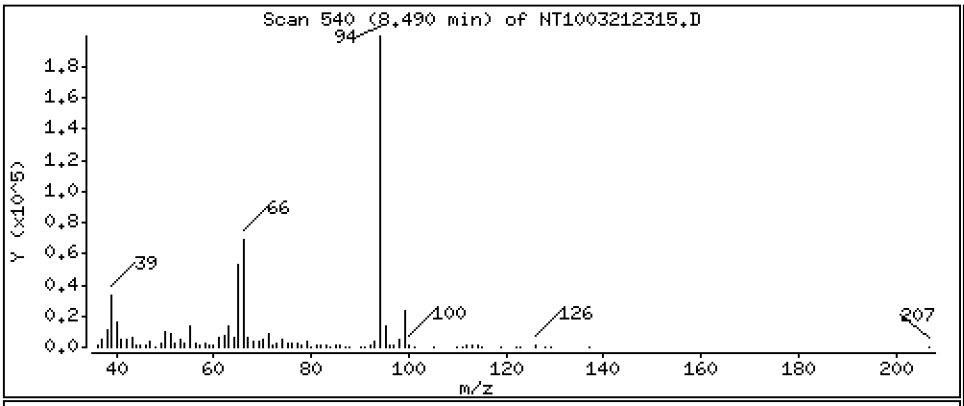
Operator: VTS

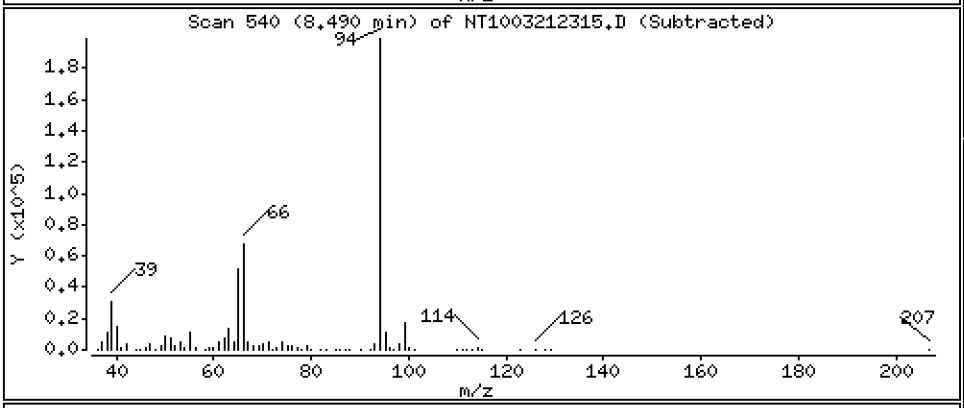
Column phase: ZB-5msi

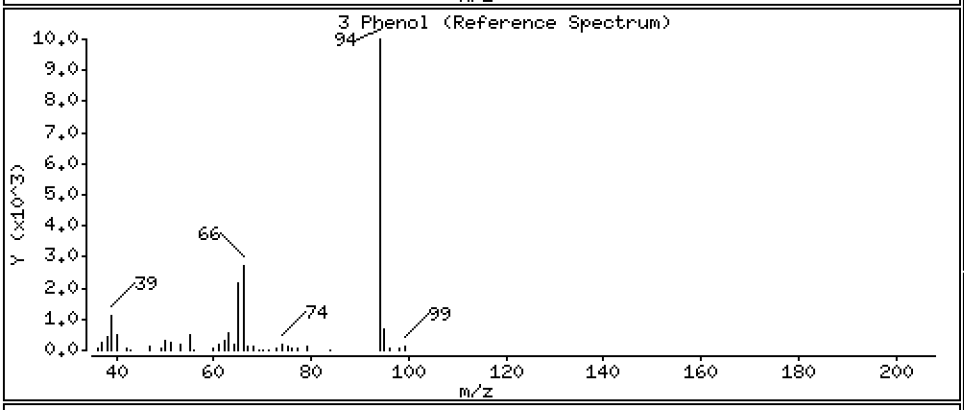
Column diameter: 0.25

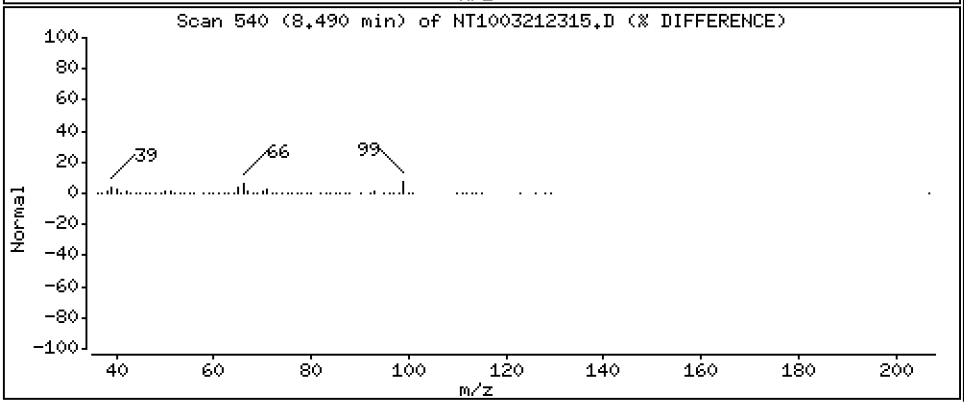
3 Phenol

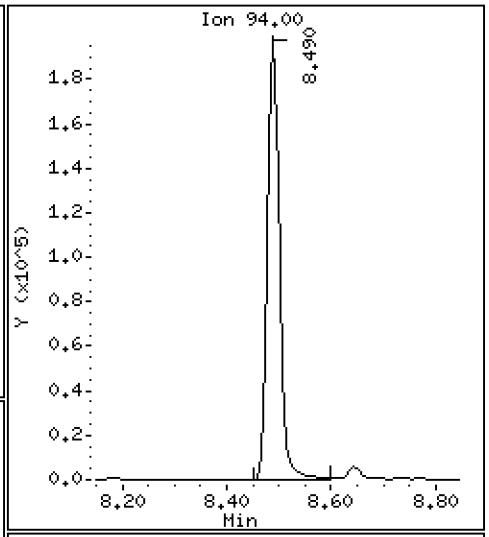
Concentration: 3.726 ug/mL

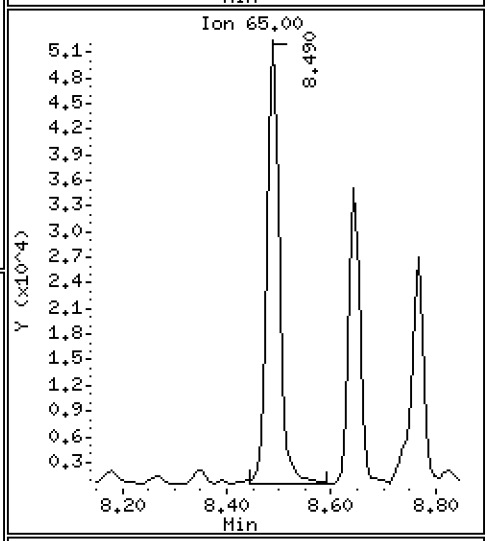


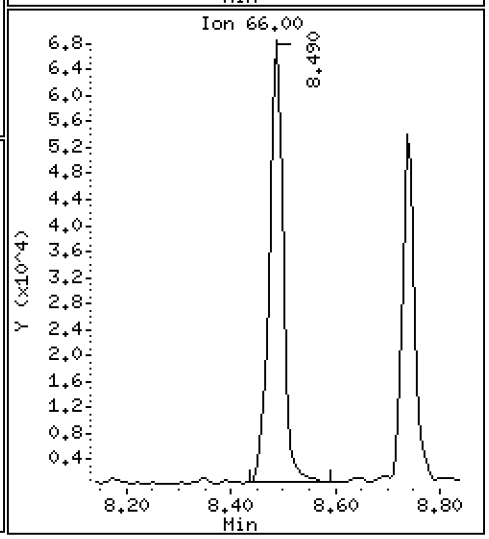












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Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS1

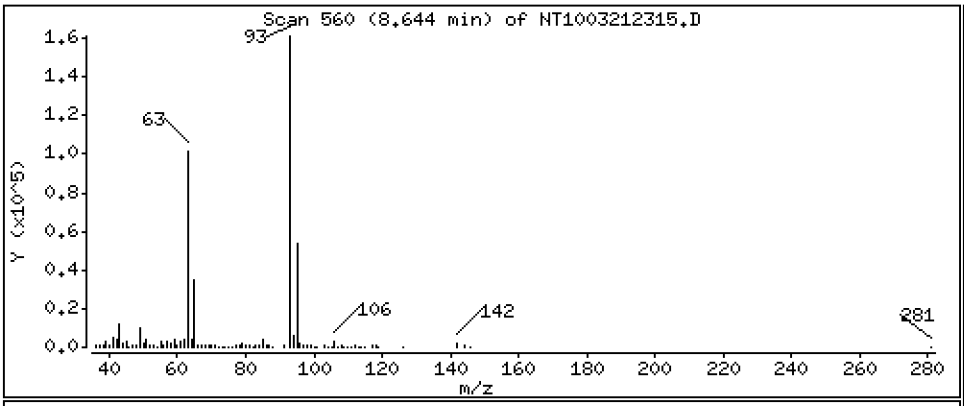
Operator: VTS

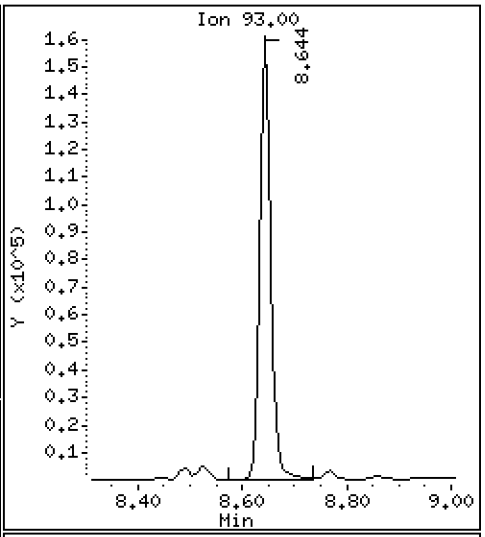
Column phase: ZB-5msi

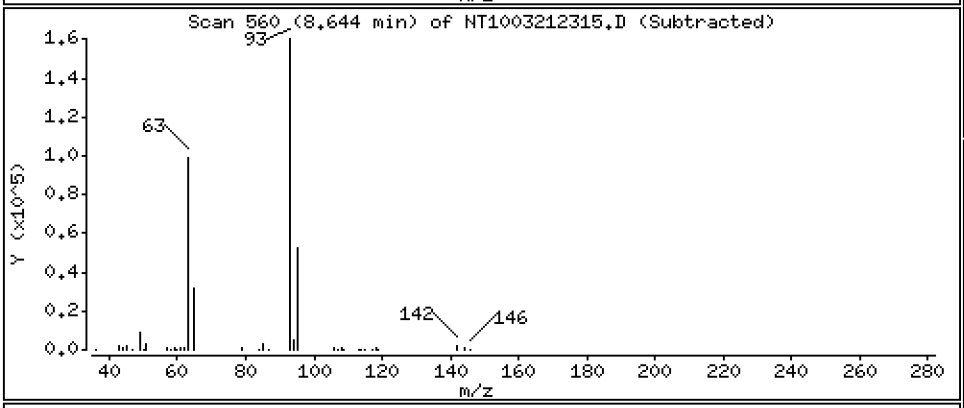
Column diameter: 0.25

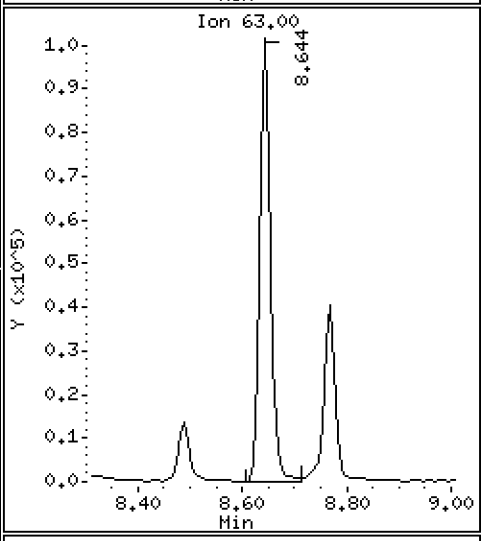
4 Bis(2-Chloroethyl)ether

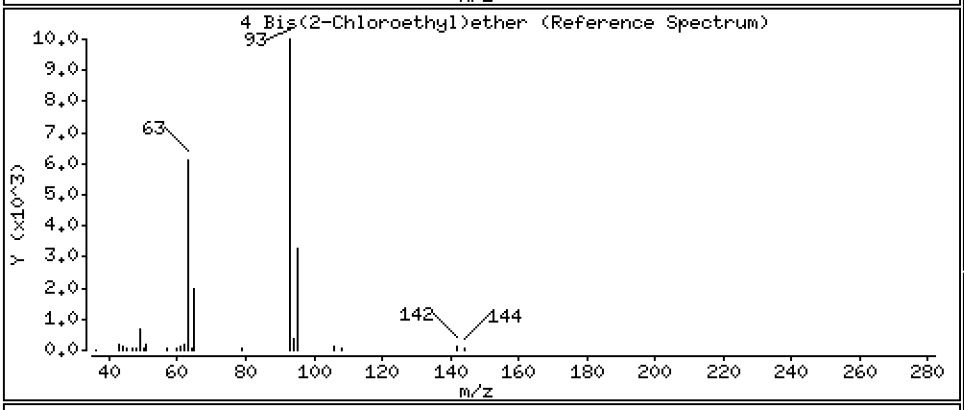
Concentration: 4.018 ug/mL

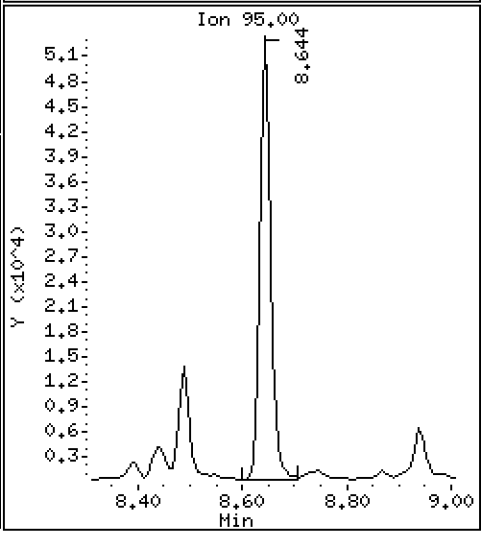


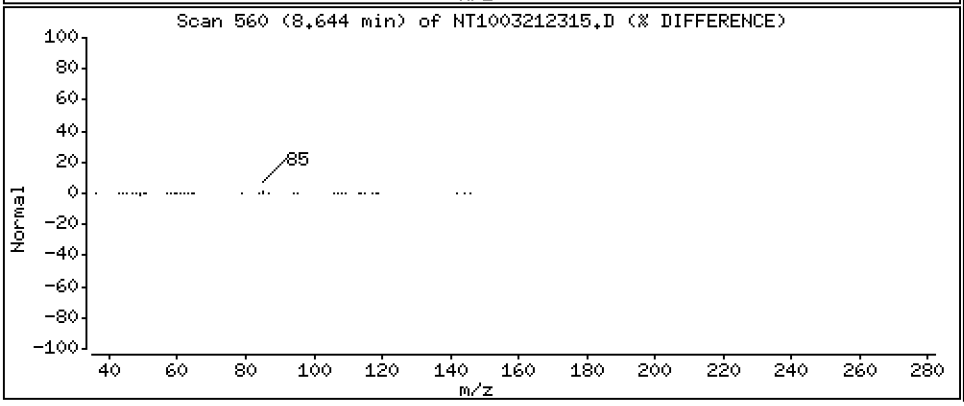












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Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS1

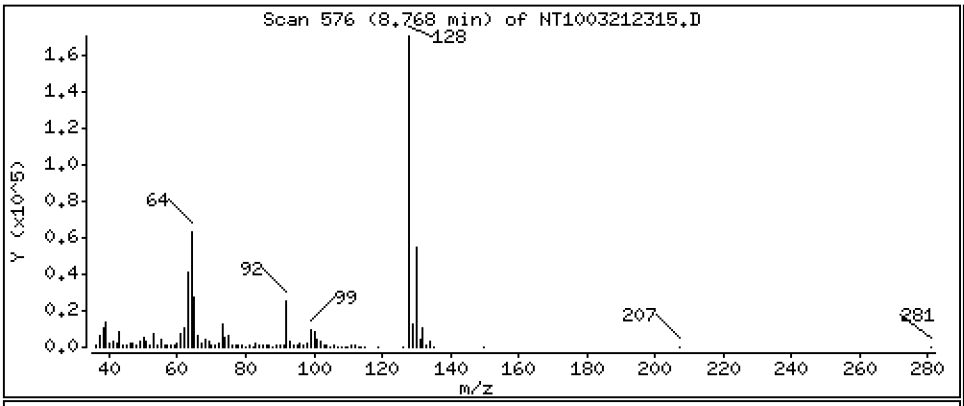
Operator: VTS

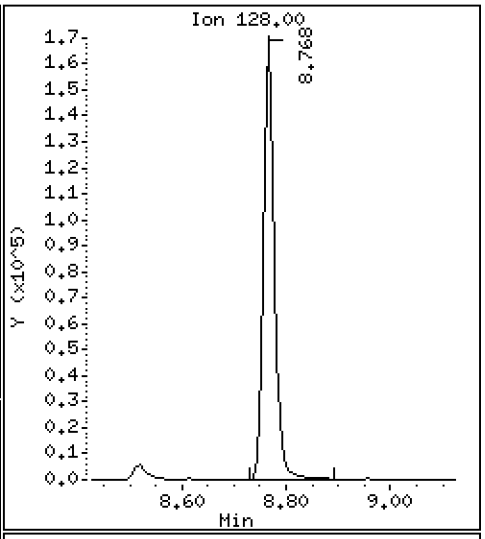
Column phase: ZB-5msi

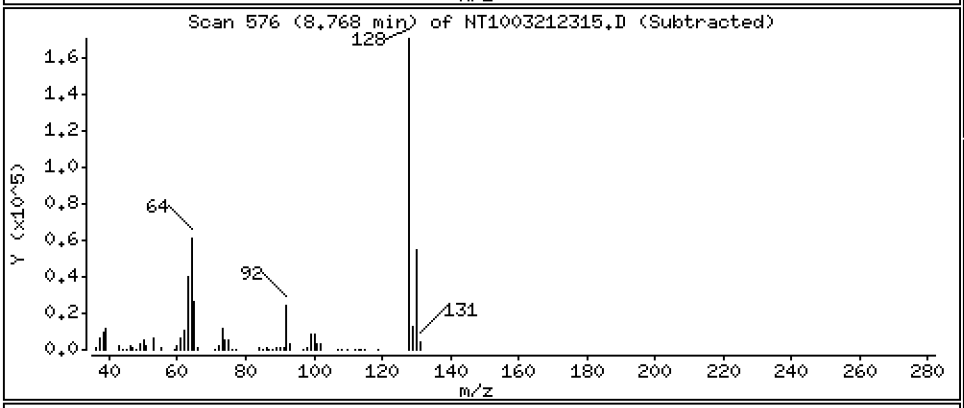
Column diameter: 0.25

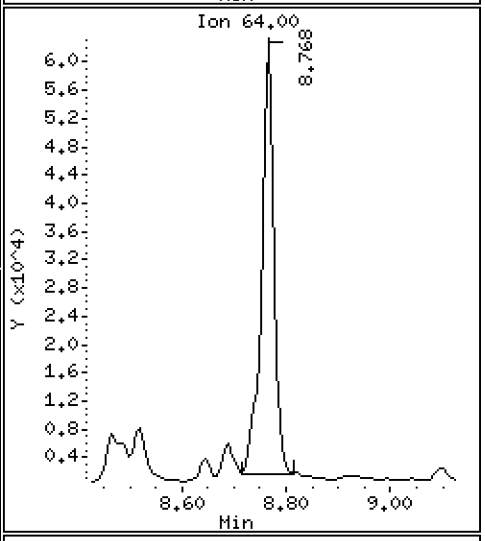
6 2-Chlorophenol

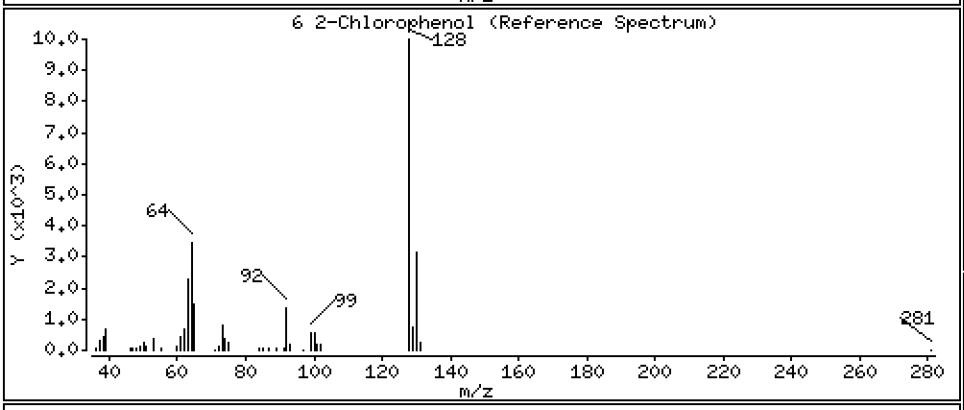
Concentration: 3.676 ug/mL

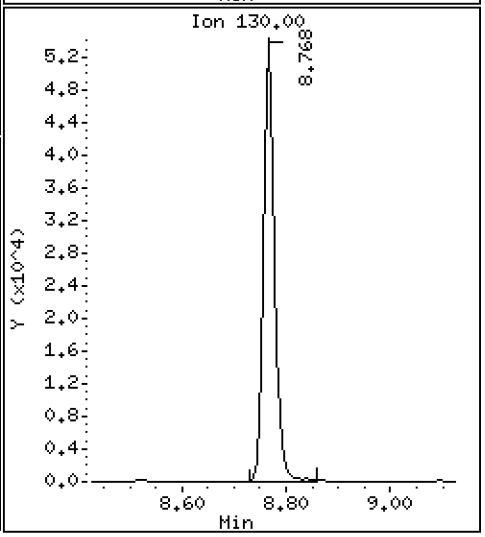


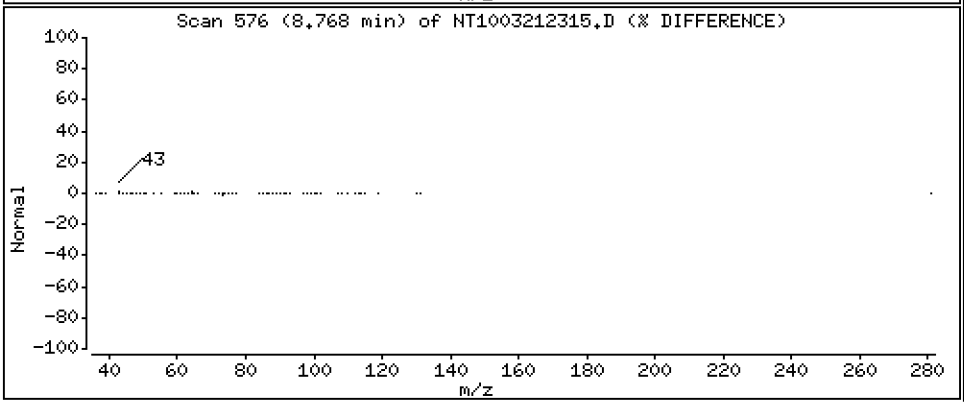












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Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS1

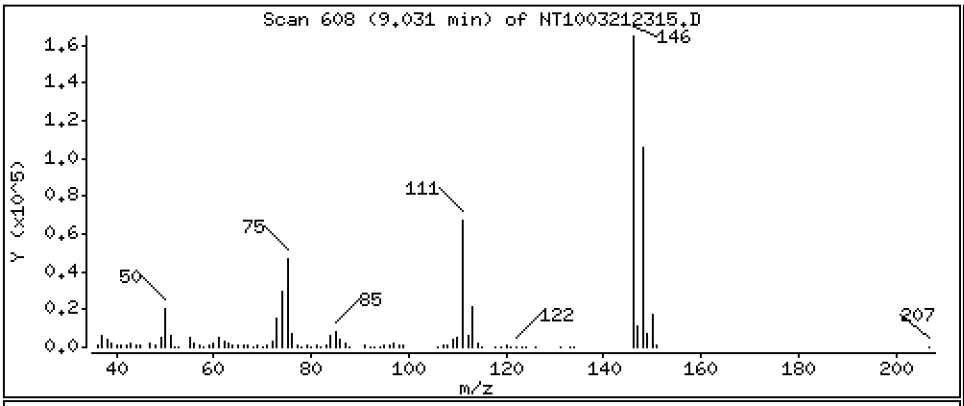
Operator: VTS

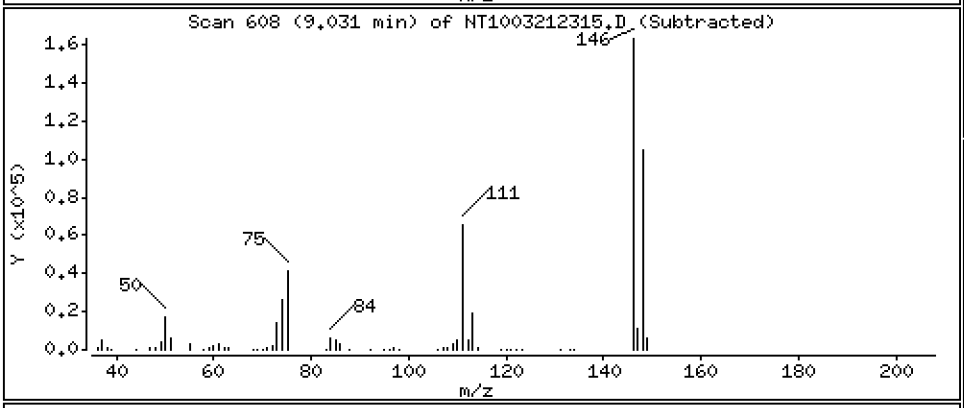
Column phase: ZB-5msi

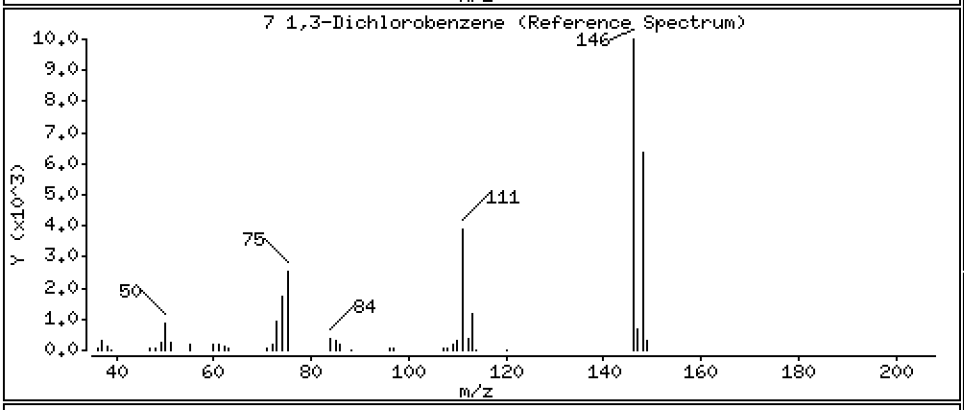
Column diameter: 0.25

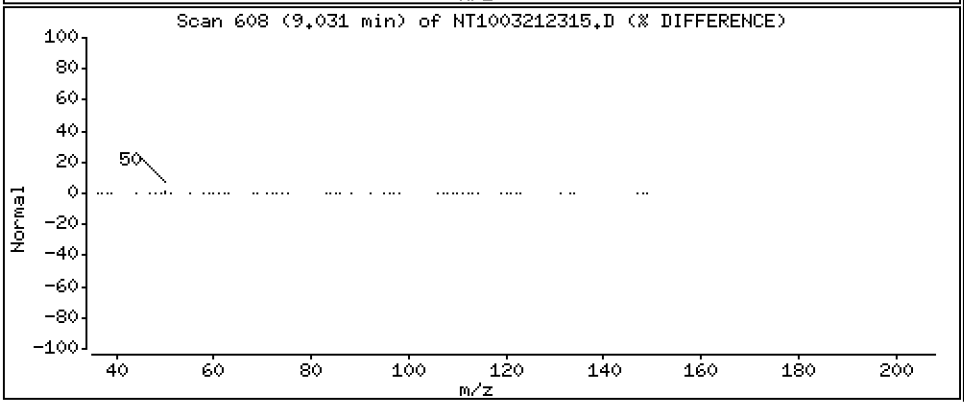
7 1,3-Dichlorobenzene

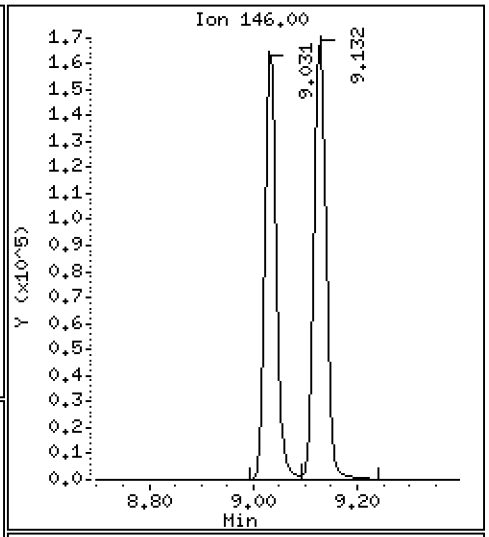
Concentration: 3.653 ug/mL

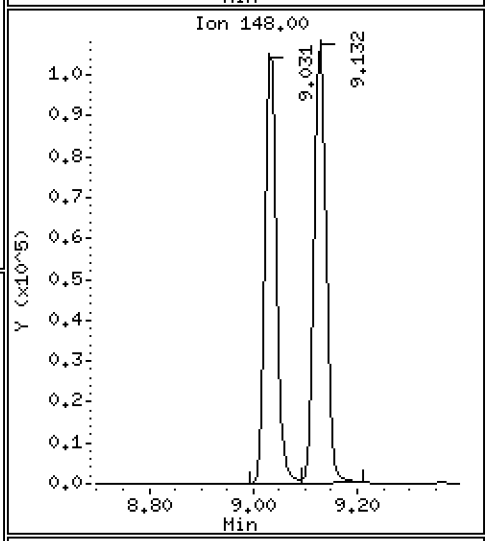


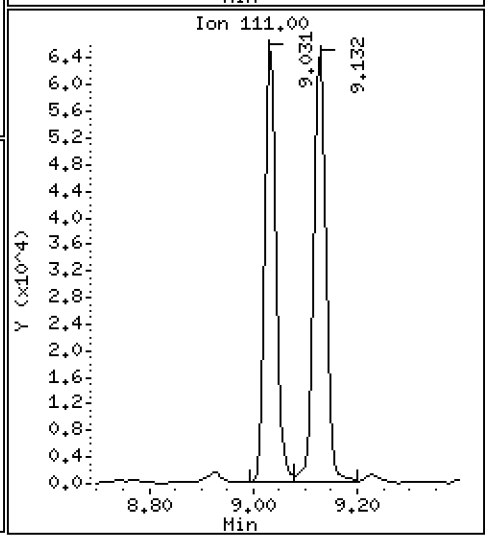












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Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS1

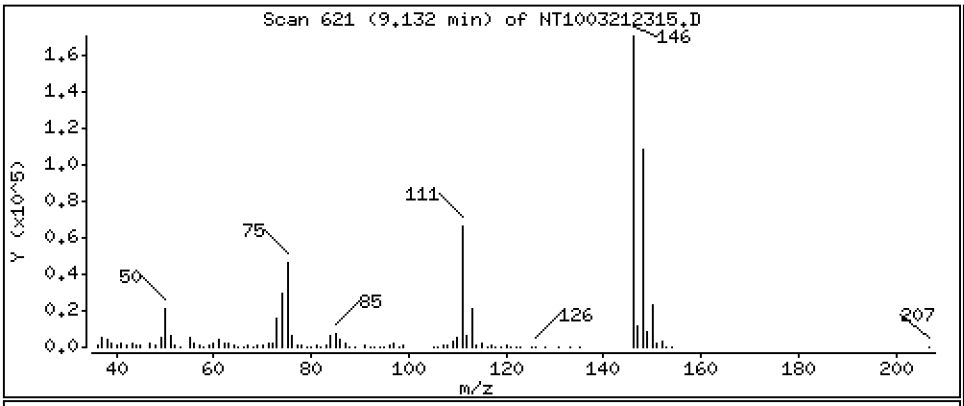
Operator: VTS

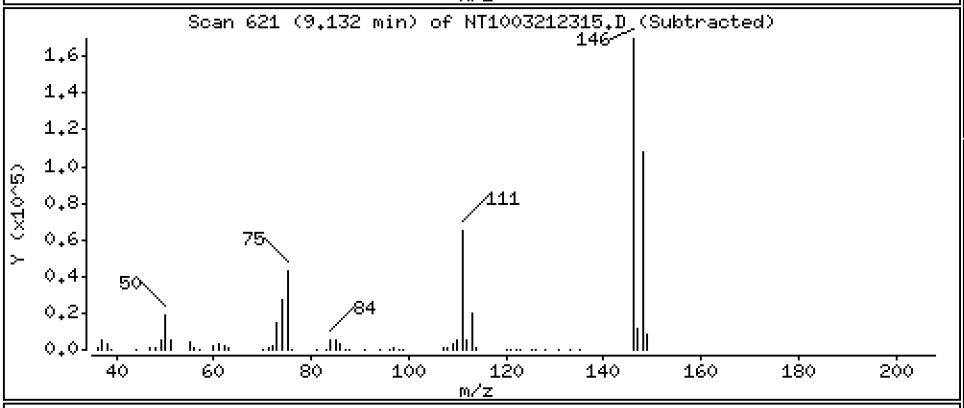
Column phase: ZB-5msi

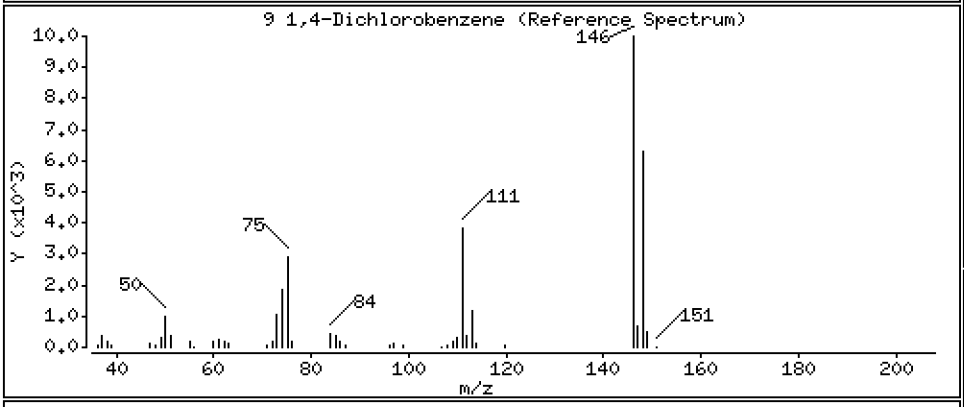
Column diameter: 0.25

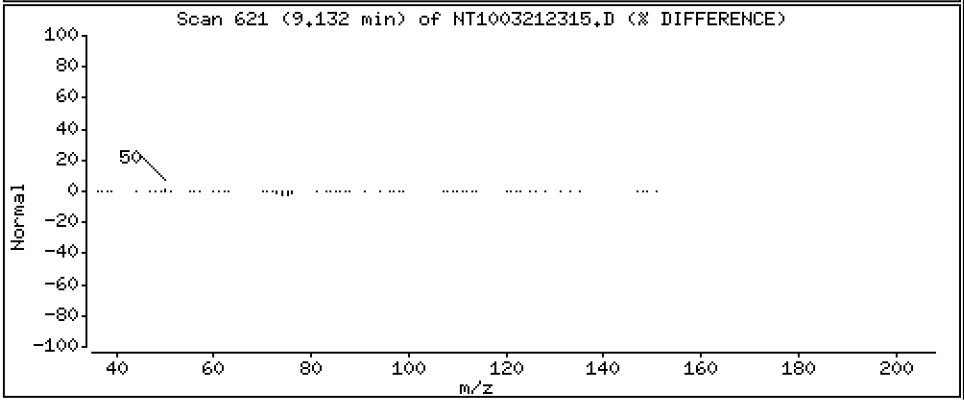
9 1,4-Dichlorobenzene

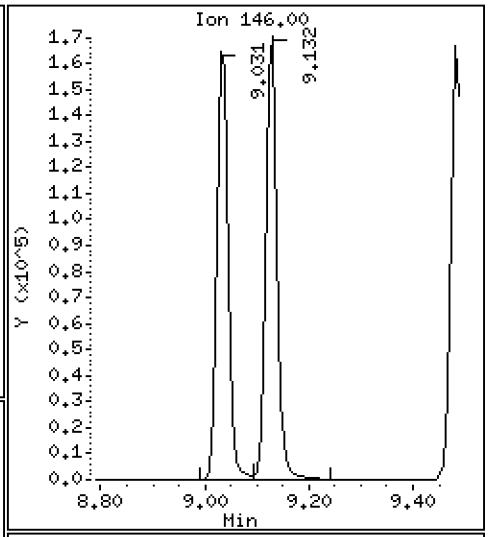
Concentration: 3.768 ug/mL

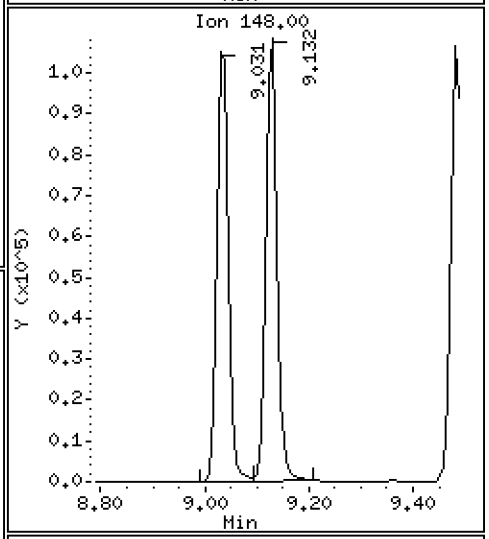


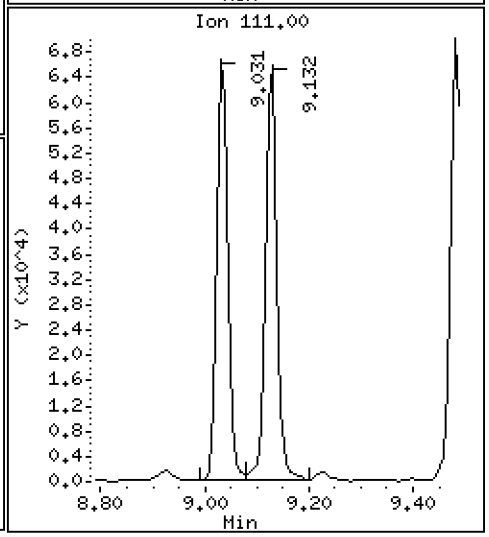












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Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS1

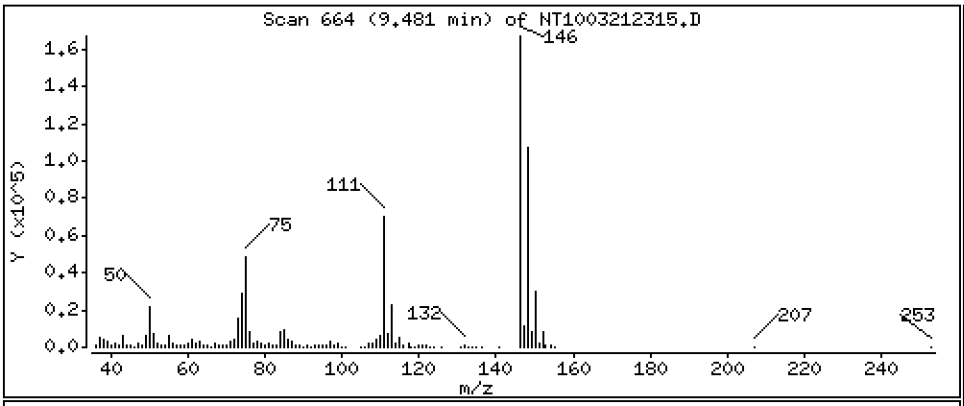
Operator: VTS

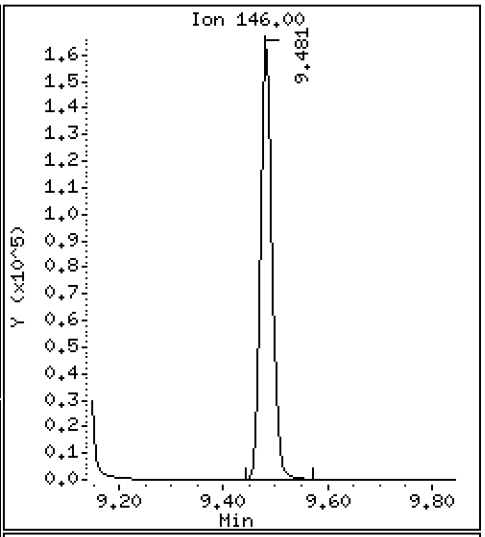
Column phase: ZB-5msi

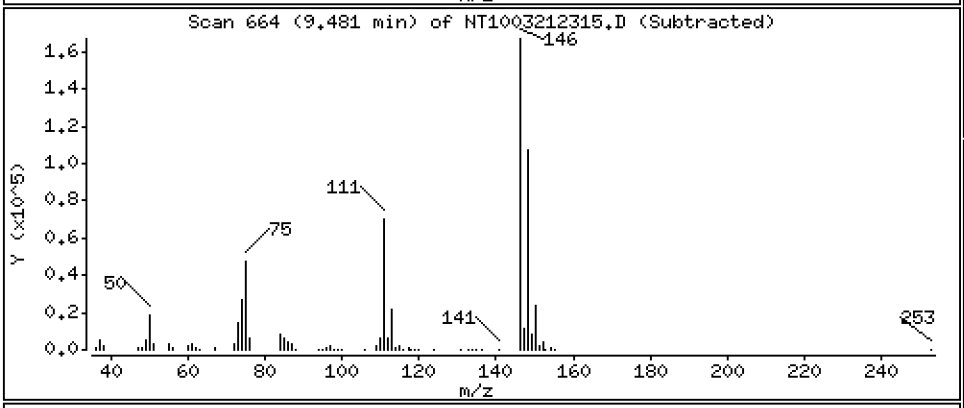
Column diameter: 0.25

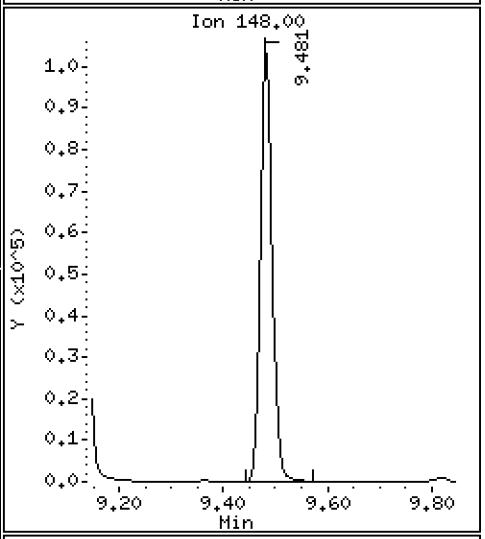
12 1,2-Dichlorobenzene

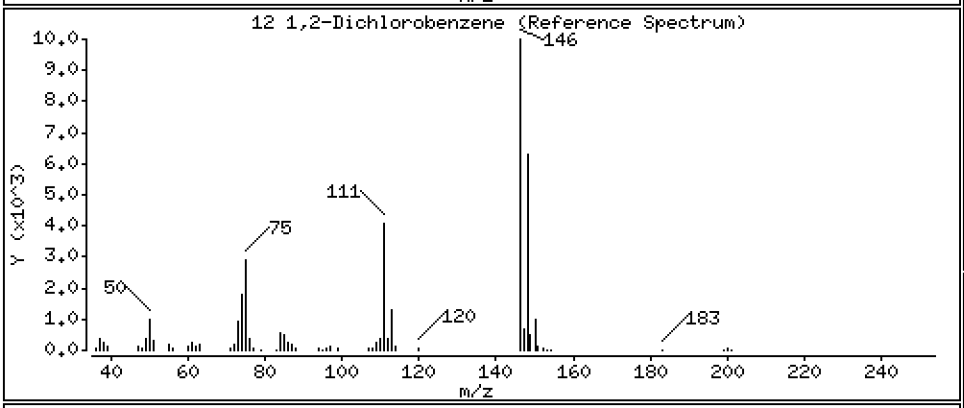
Concentration: 3.761 ug/mL

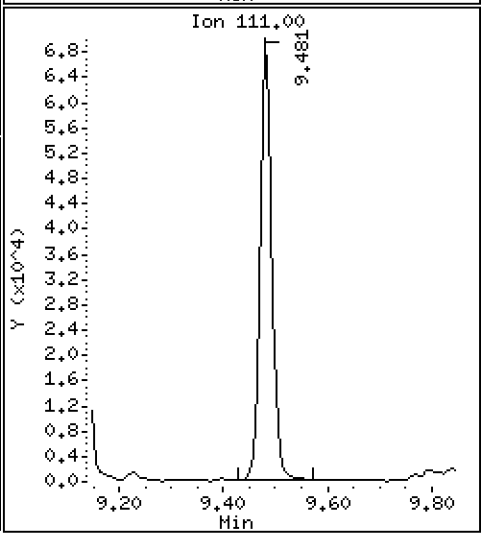


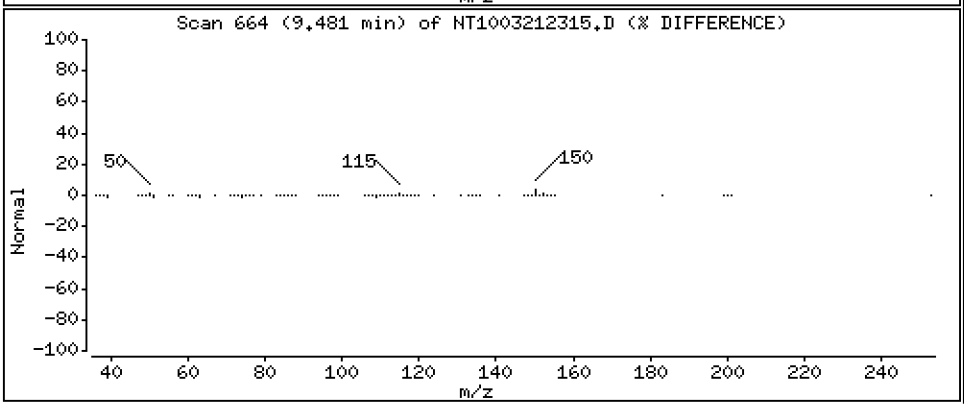












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Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS1

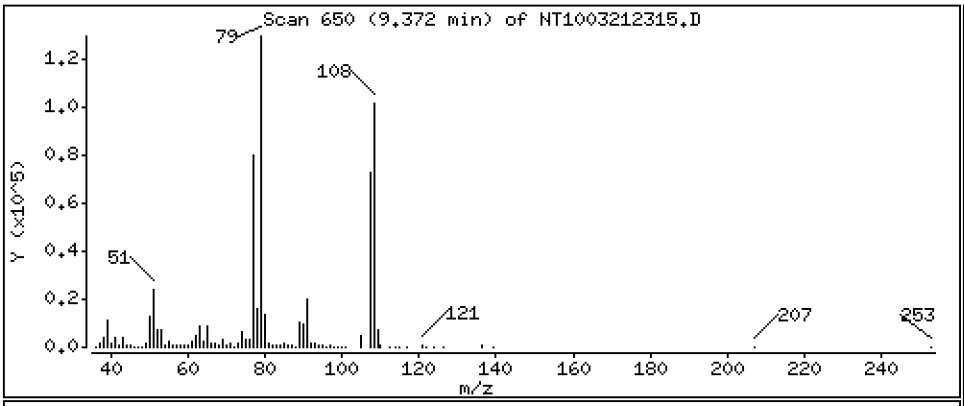
Operator: VTS

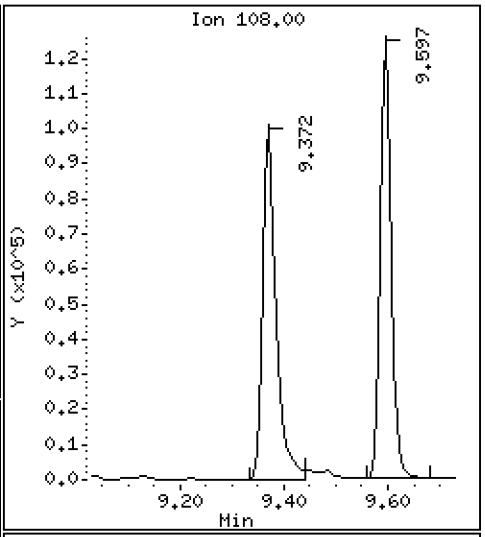
Column phase: ZB-5msi

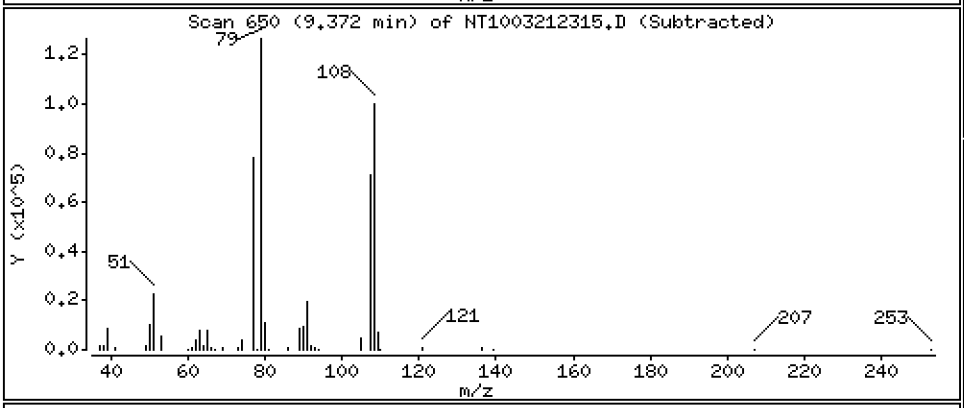
Column diameter: 0.25

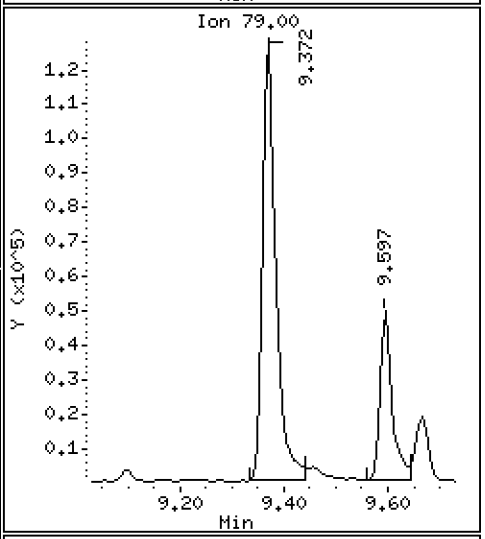
11 Benzyl alcohol

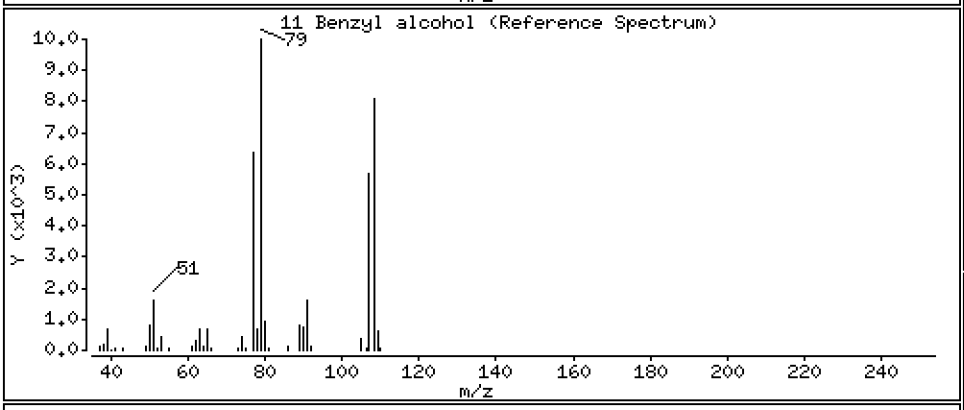
Concentration: 4.691 ug/mL

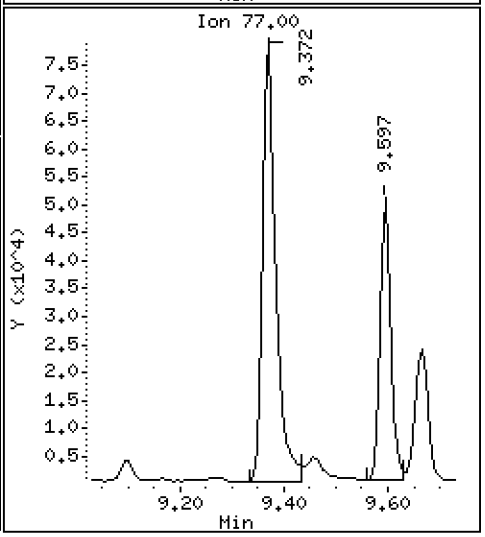


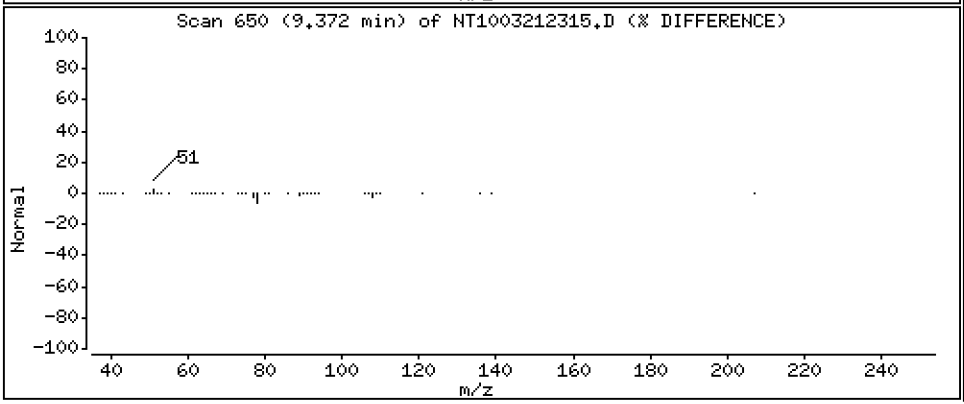












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Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS1

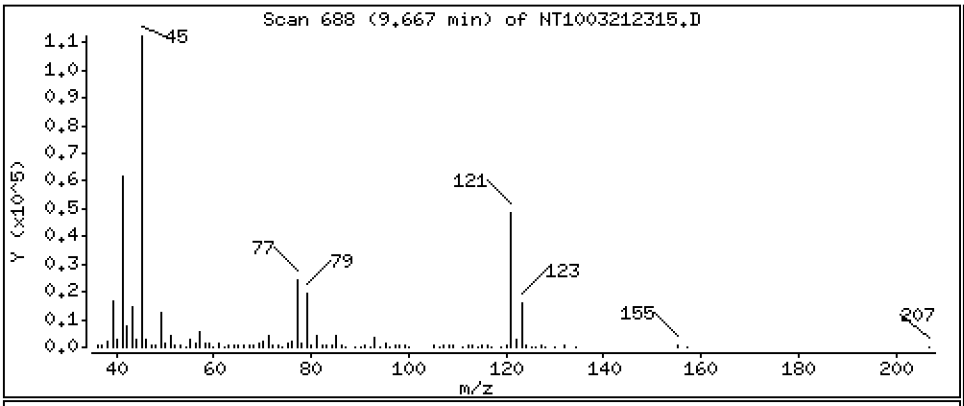
Operator: VTS

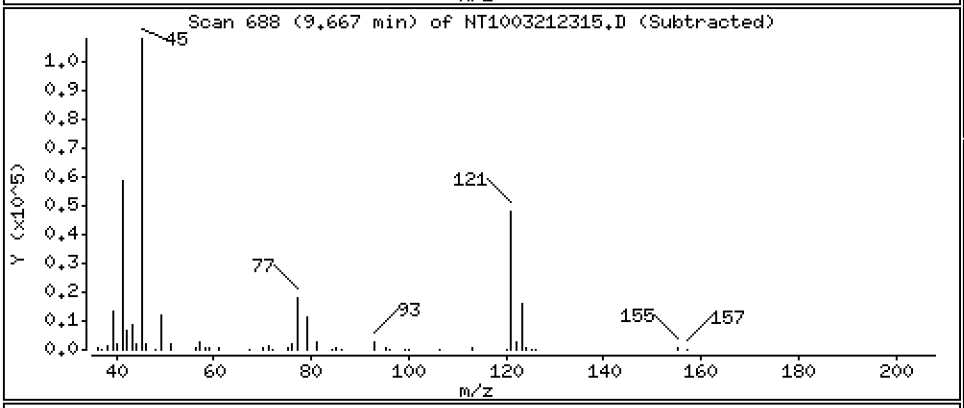
Column phase: ZB-5msi

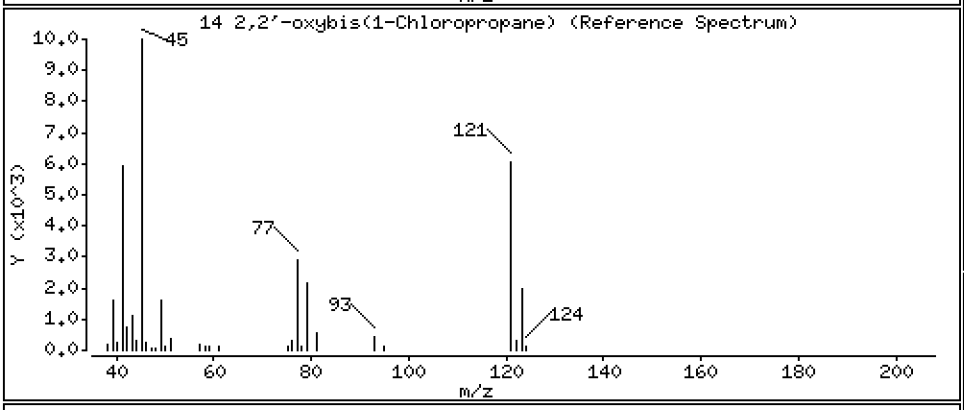
Column diameter: 0.25

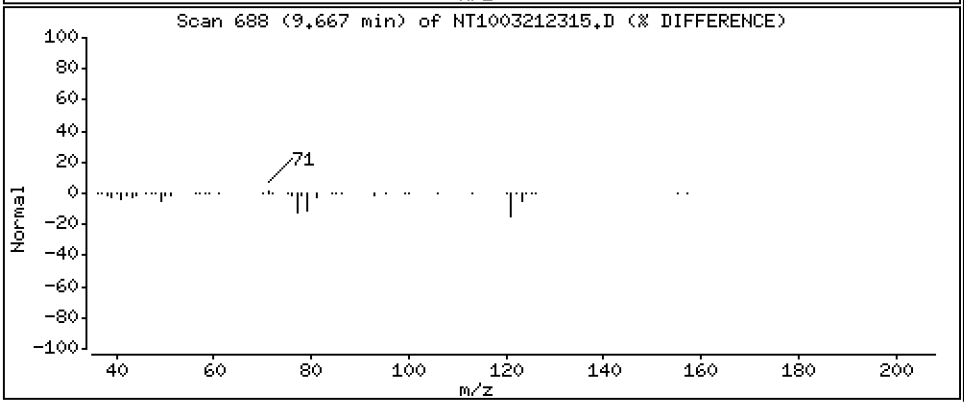
14 2,2'-oxybis(1-Chloropropane)

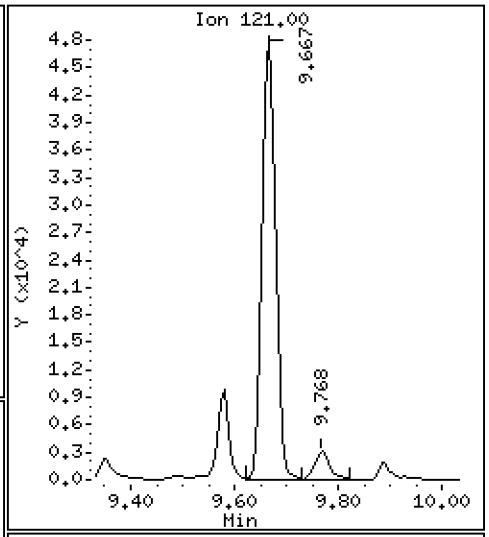
Concentration: 4.271 ug/mL

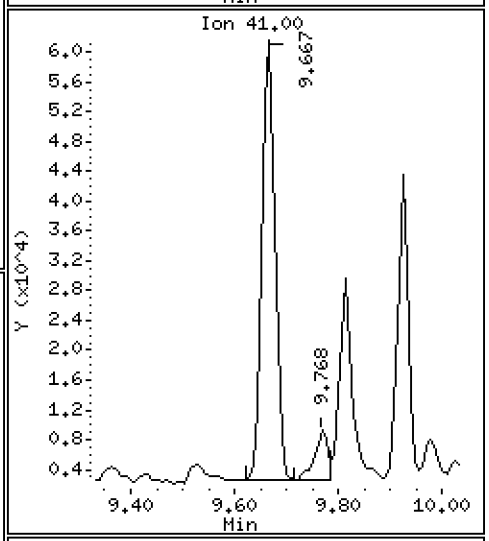


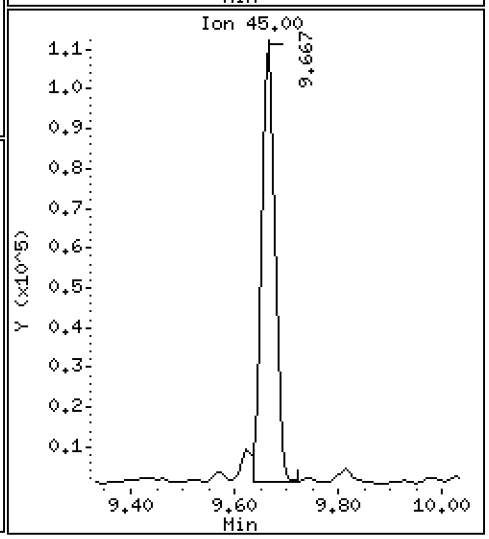












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Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS1

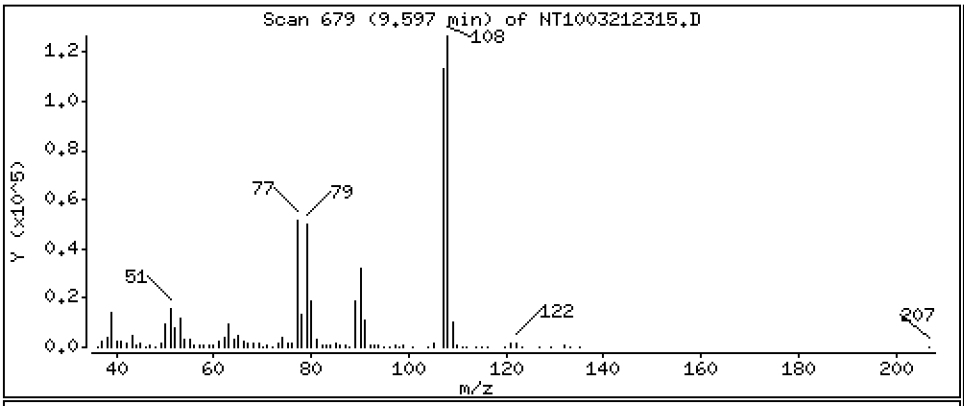
Operator: VTS

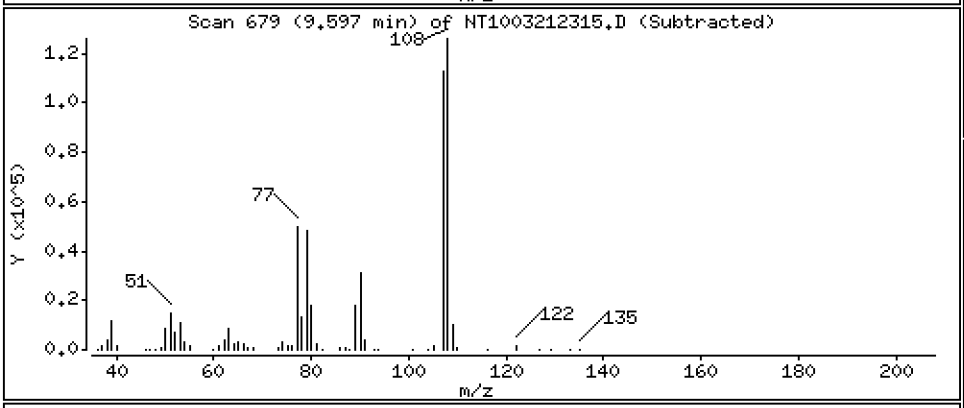
Column phase: ZB-5msi

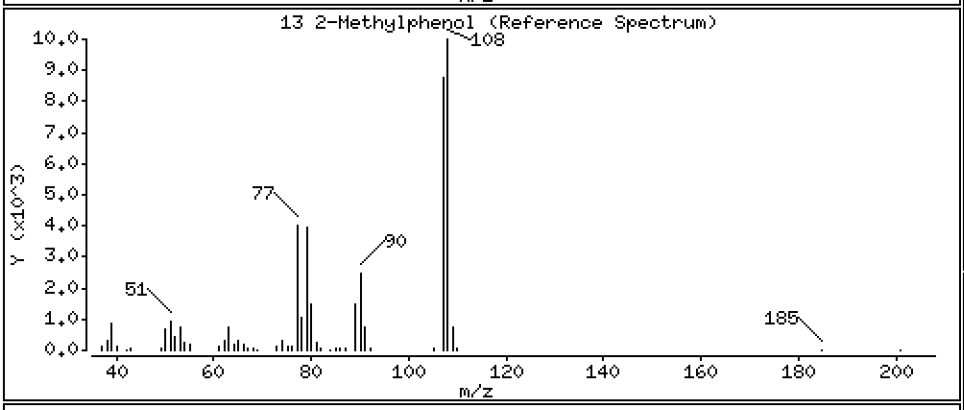
Column diameter: 0.25

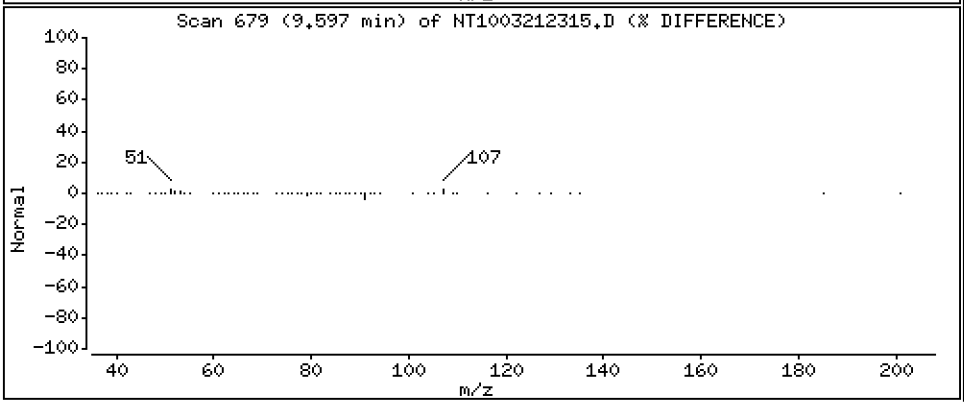
13 2-Methylphenol

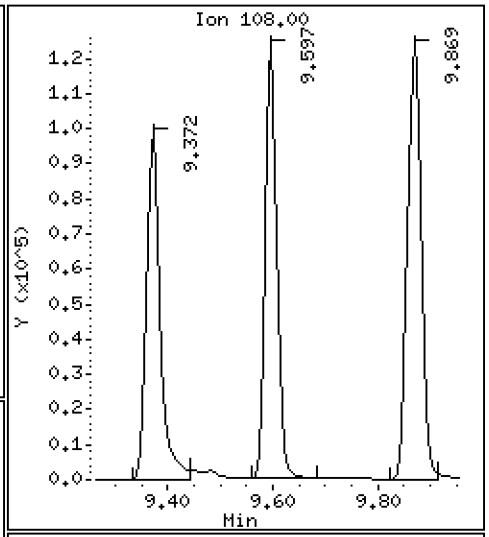
Concentration: 3.215 ug/mL

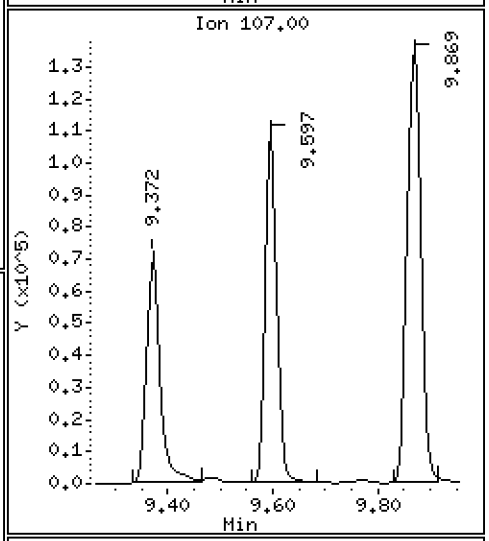


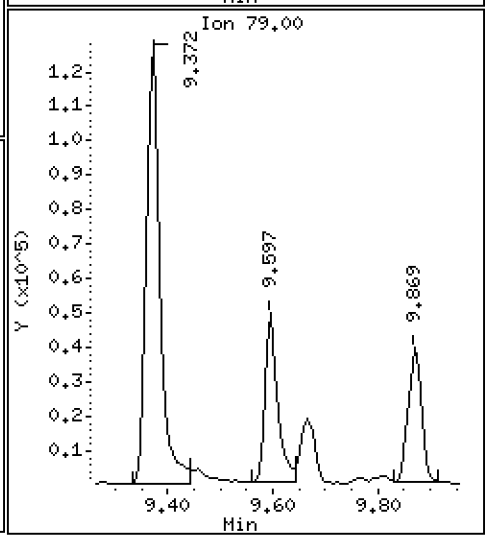












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Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS1

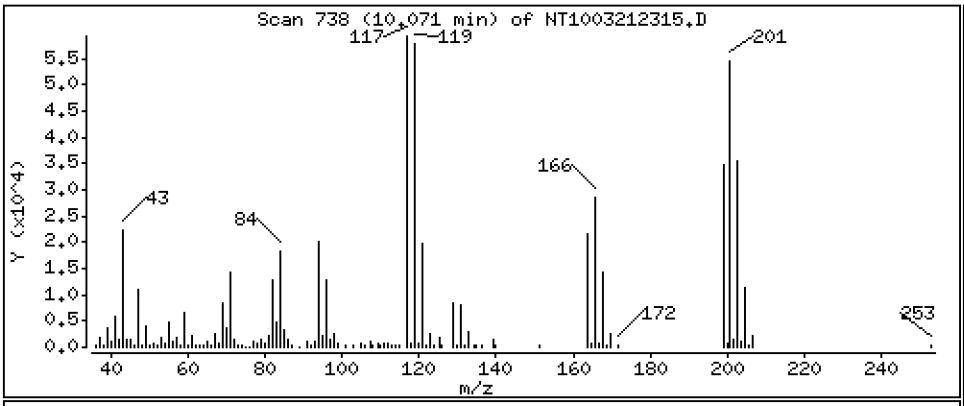
Operator: VTS

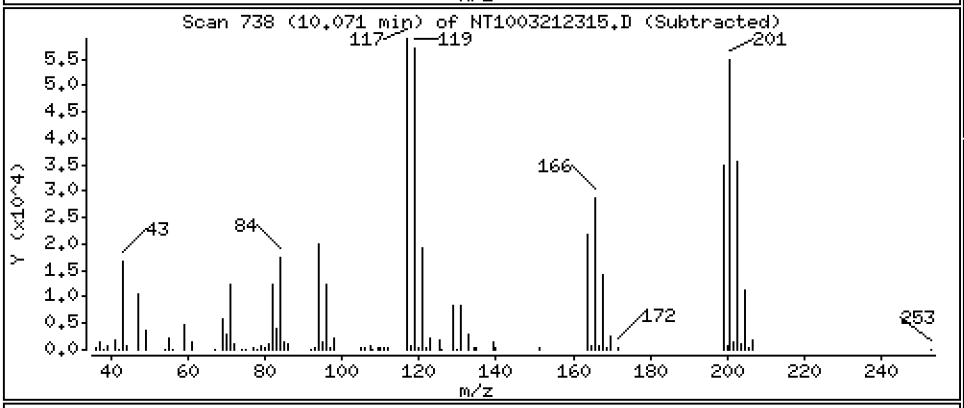
Column phase: ZB-5msi

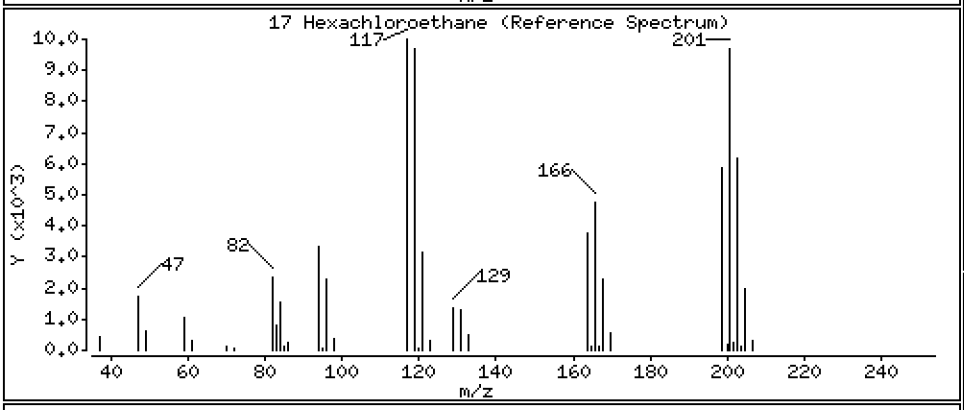
Column diameter: 0.25

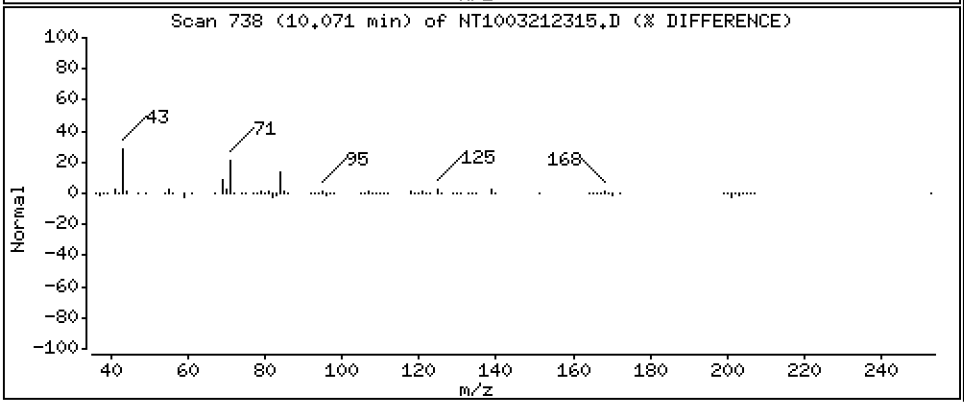
17 Hexachloroethane

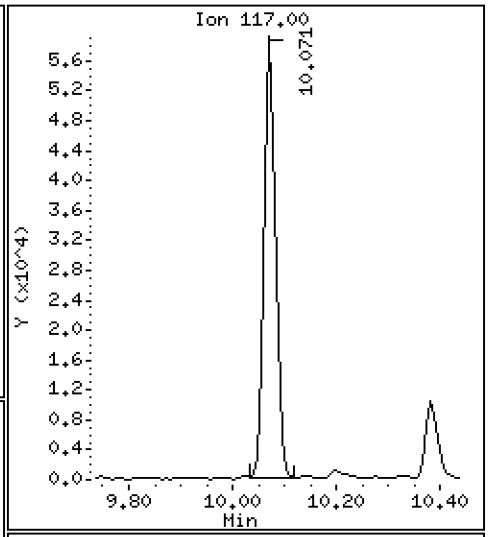
Concentration: 3.062 ug/mL

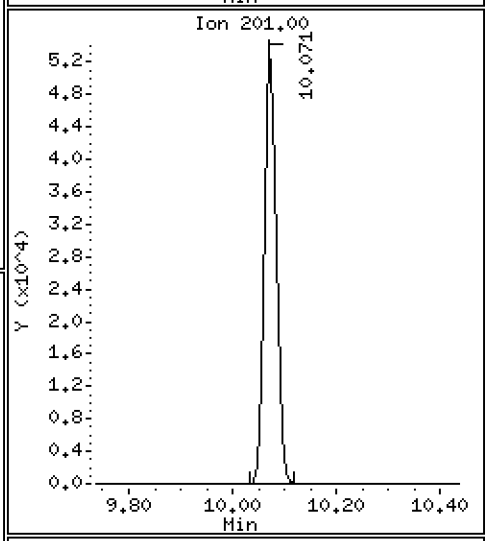


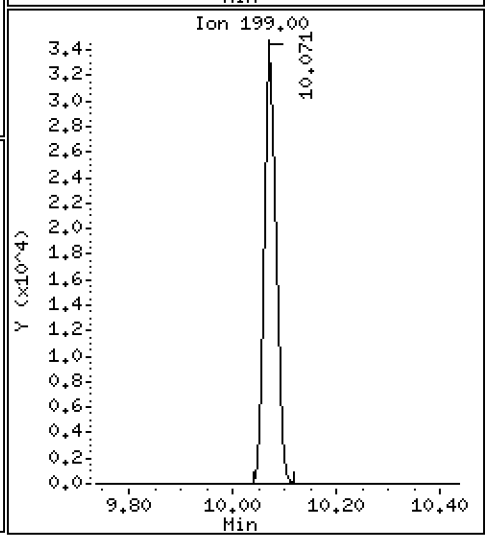












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Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS1

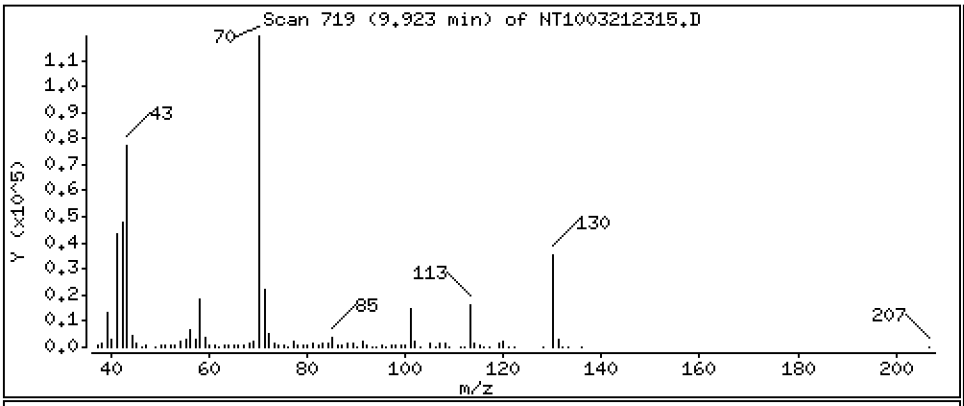
Operator: VTS

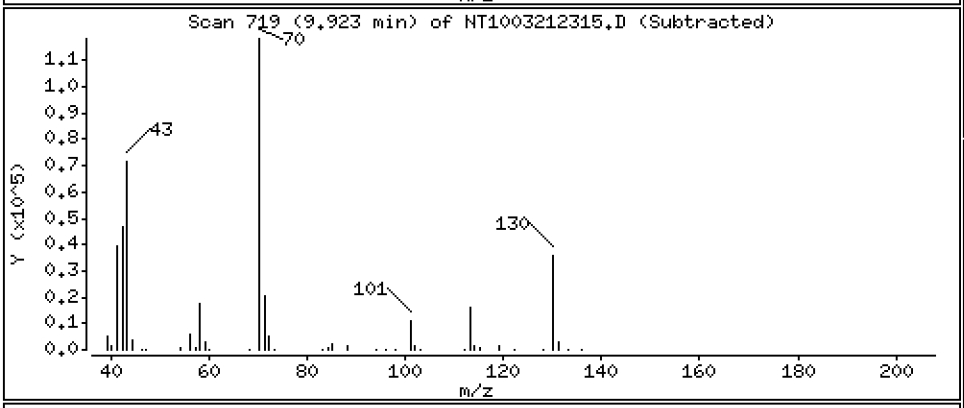
Column phase: ZB-5msi

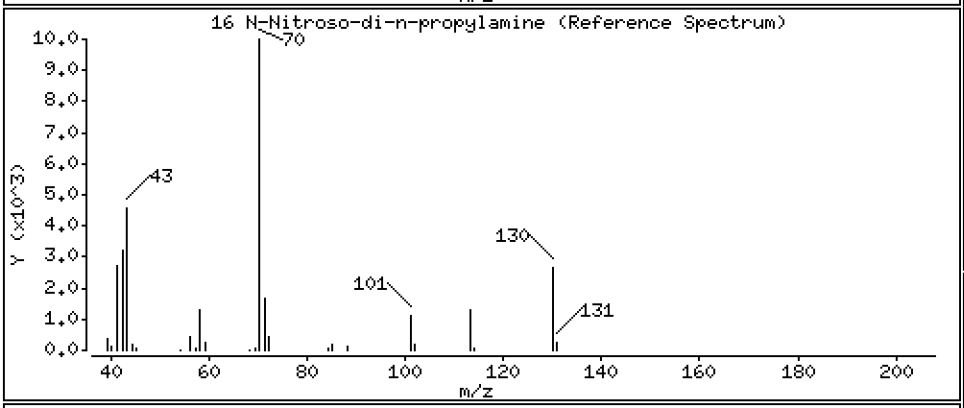
Column diameter: 0.25

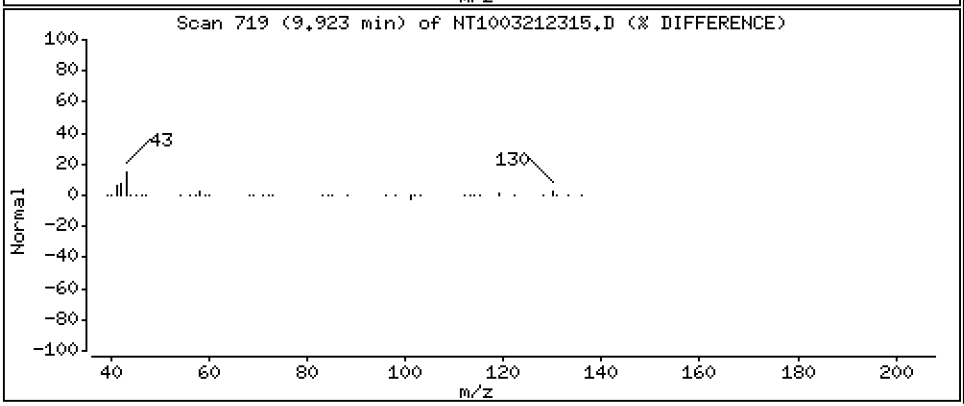
16 N-Nitroso-di-n-propylamine

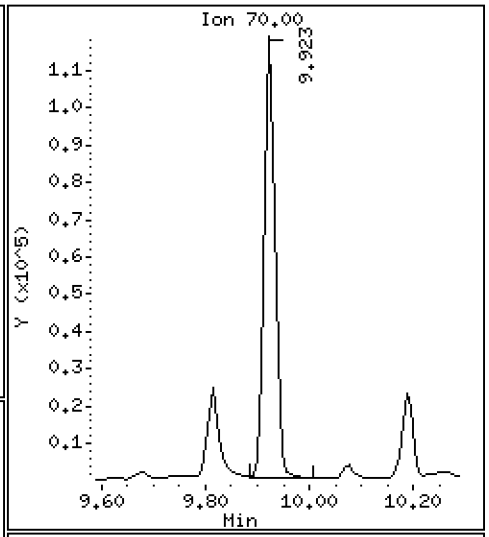
Concentration: 3.683 ug/mL

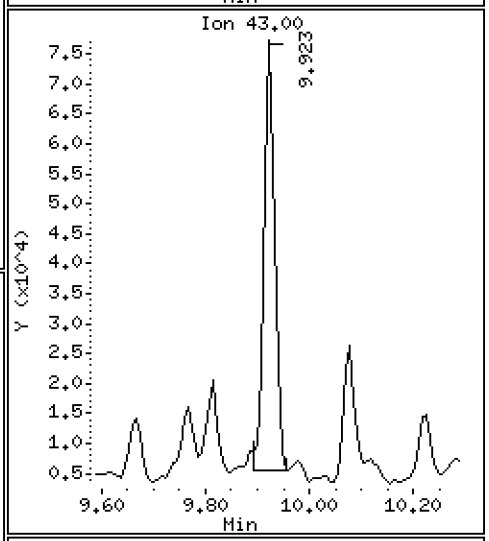


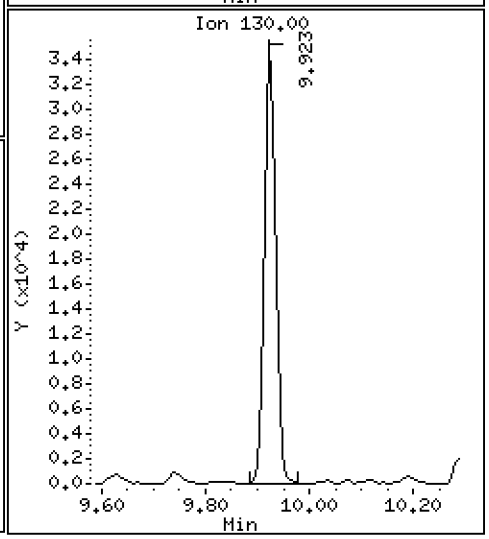












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Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS1

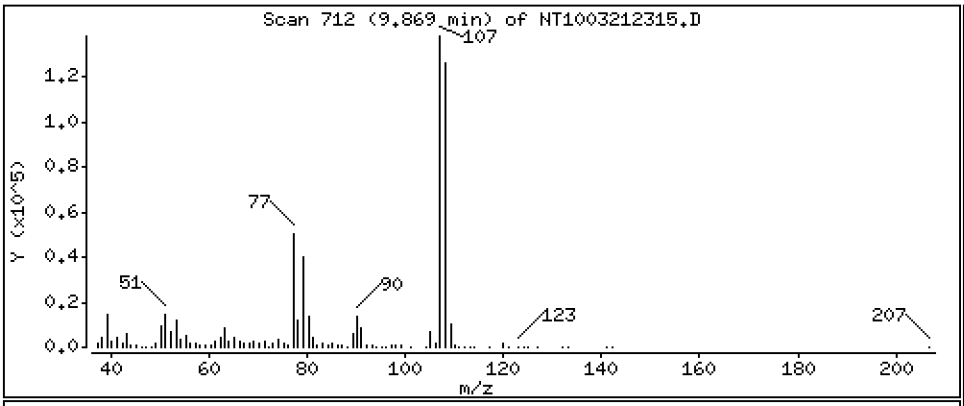
Operator: VTS

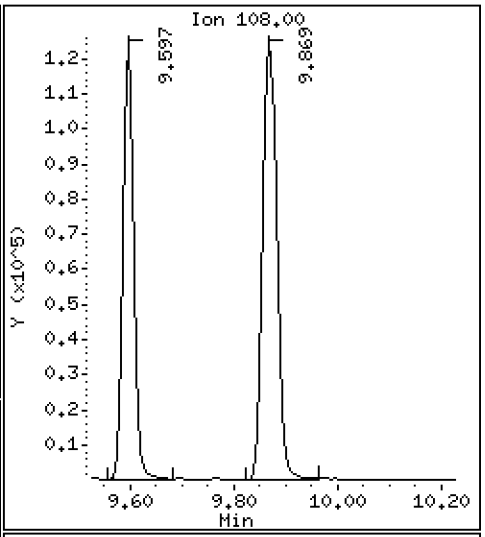
Column phase: ZB-5msi

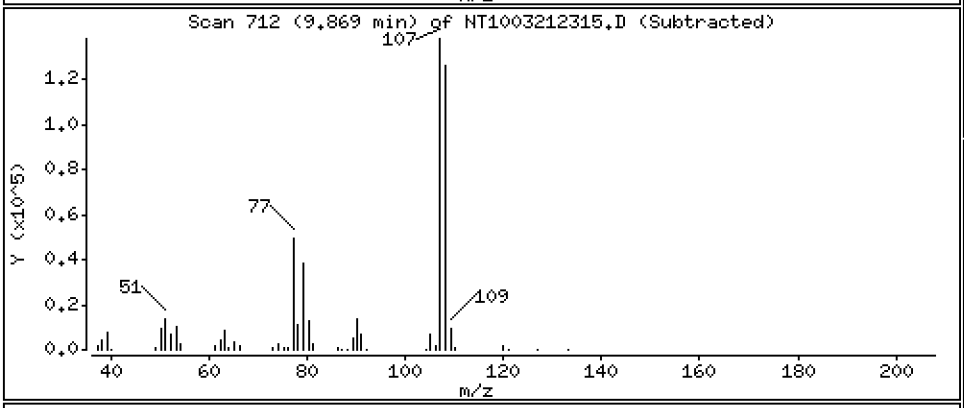
Column diameter: 0.25

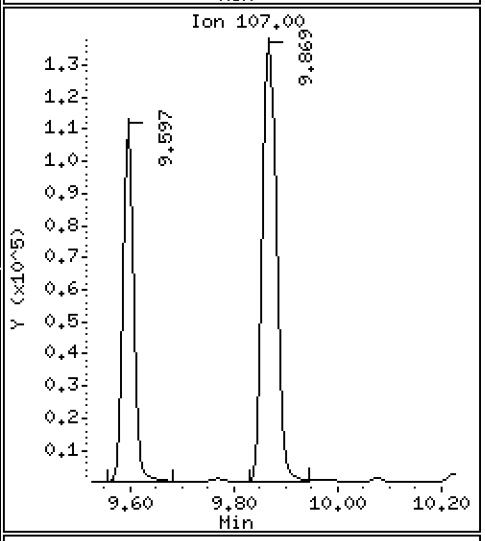
15 4-Methylphenol

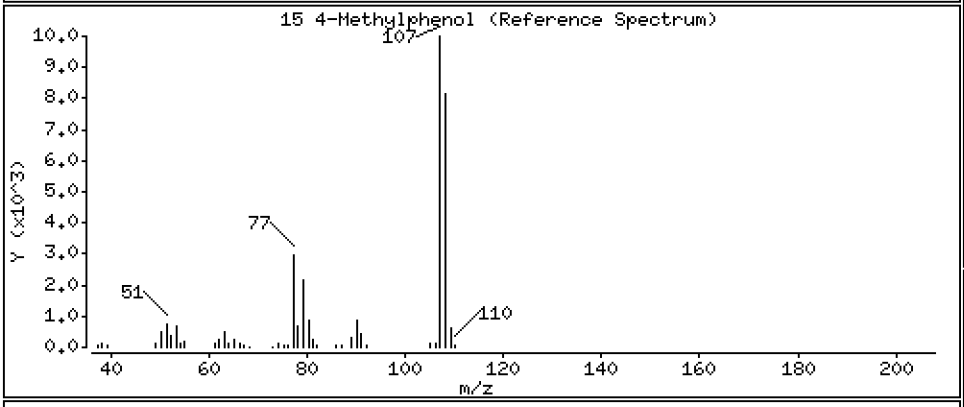
Concentration: 3.697 ug/mL

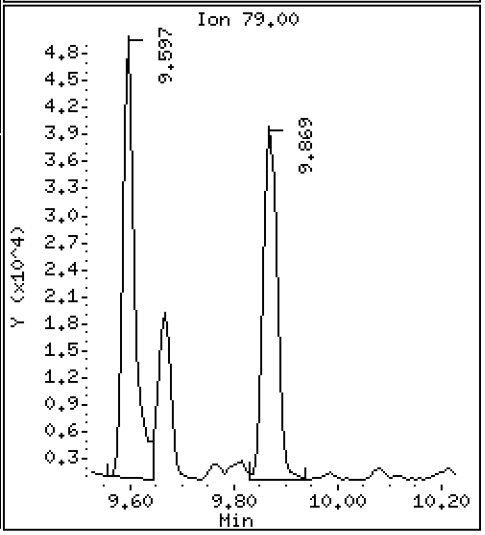


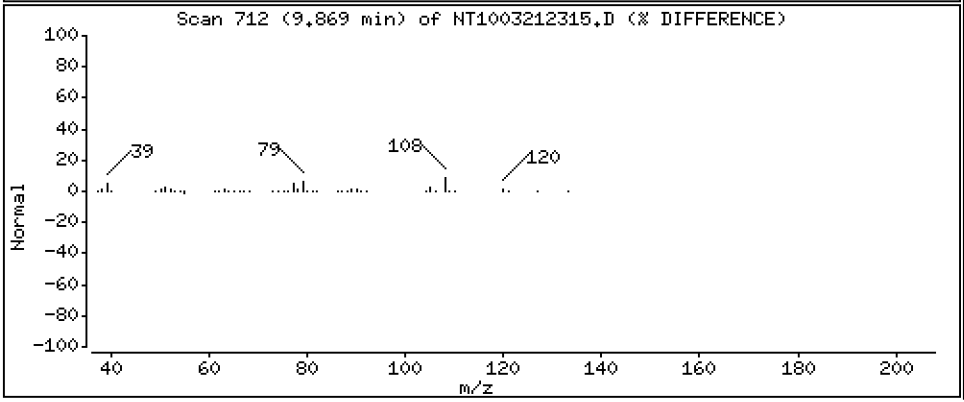












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Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS1

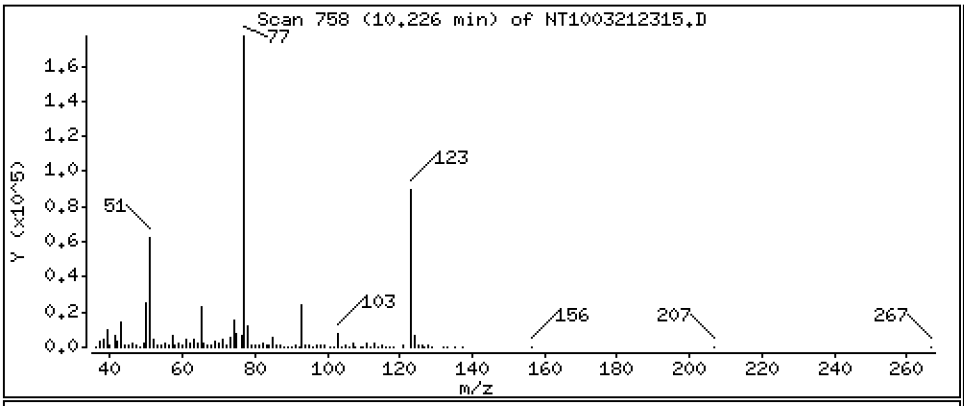
Operator: VTS

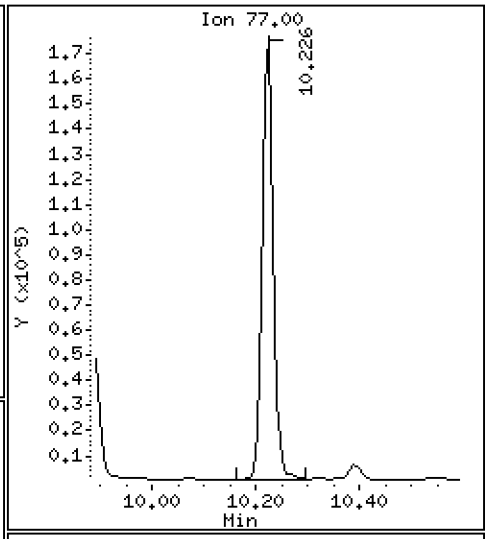
Column phase: ZB-5msi

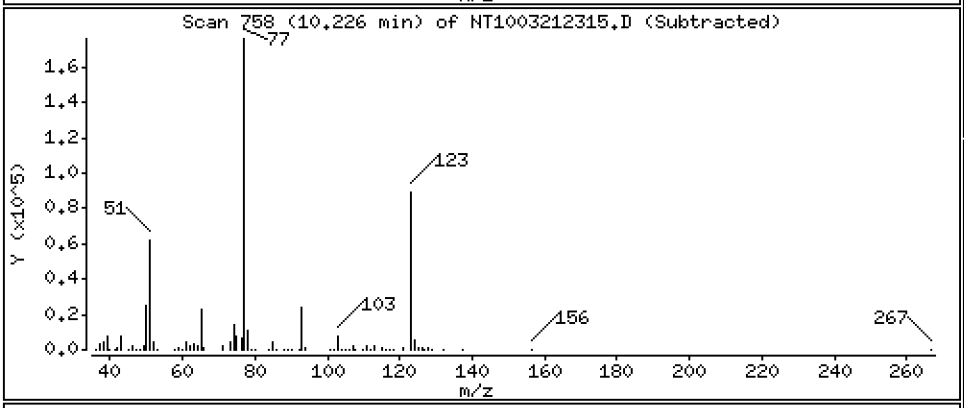
Column diameter: 0.25

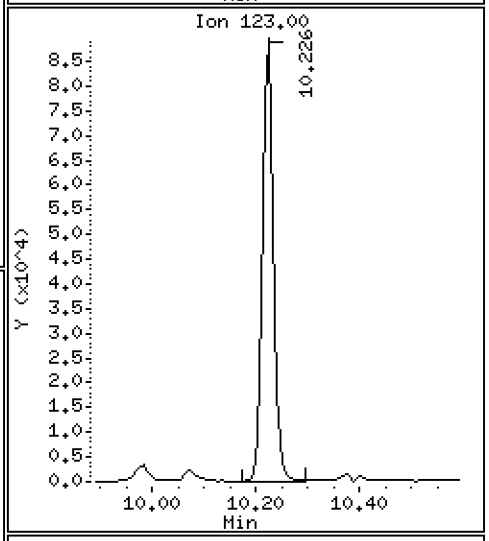
19 Nitrobenzene

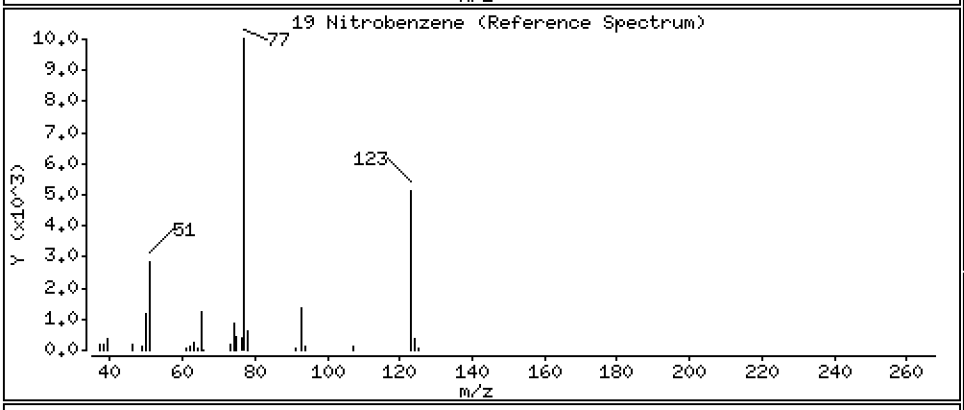
Concentration: 3.774 ug/mL

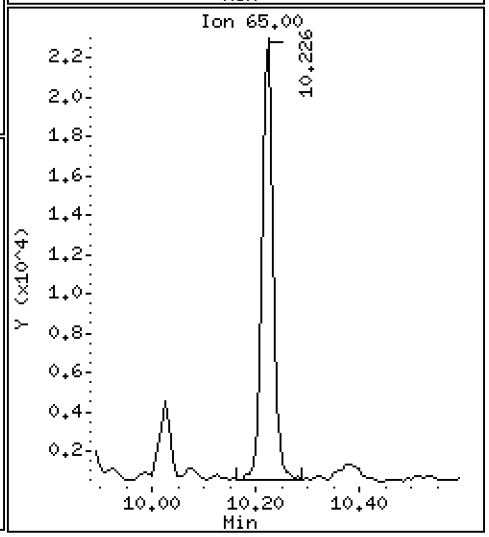


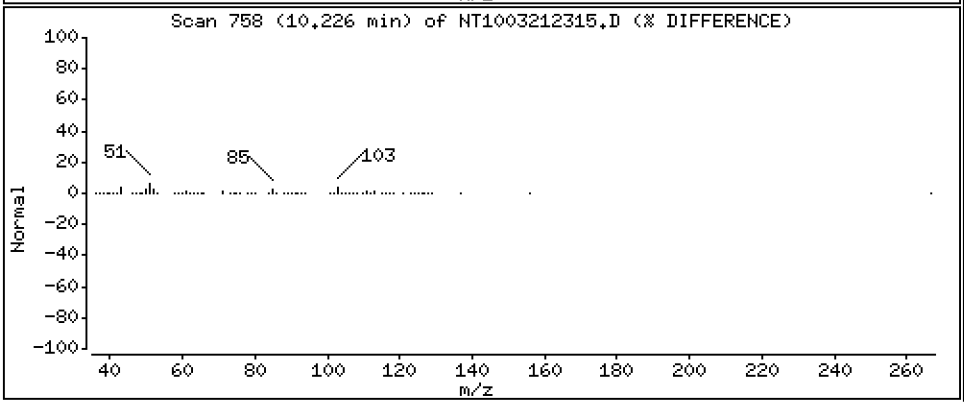












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Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS1

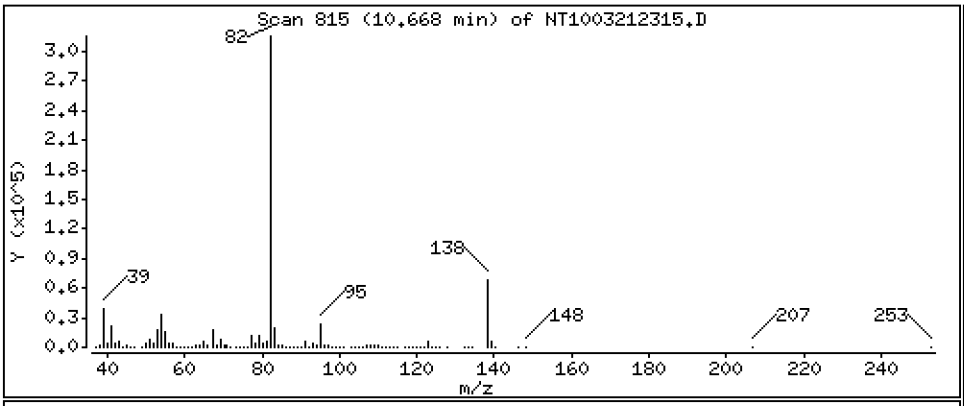
Operator: VTS

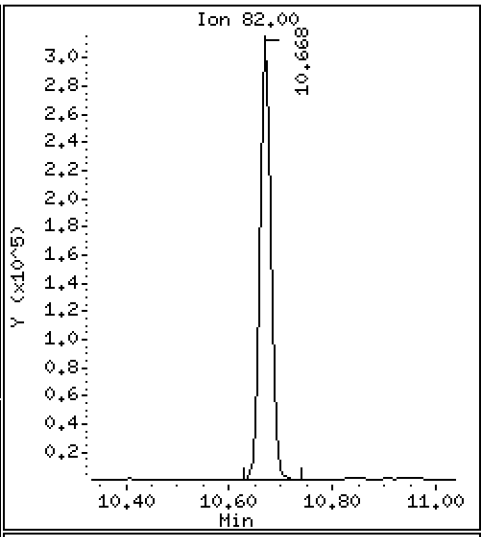
Column phase: ZB-5msi

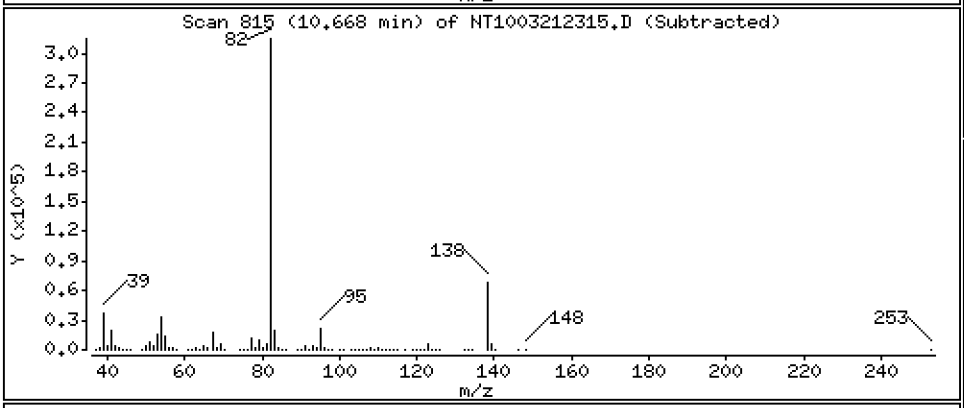
Column diameter: 0.25

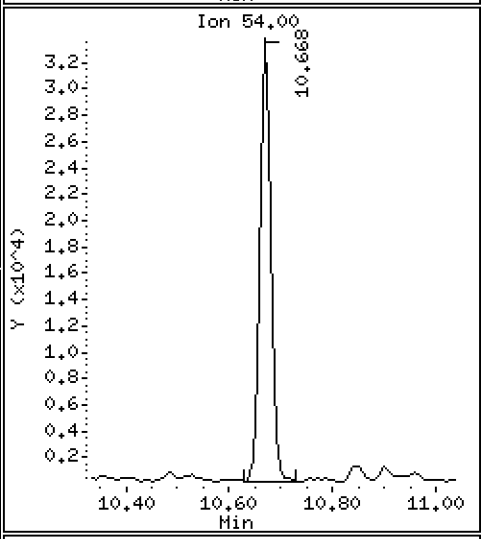
20 Isophorone

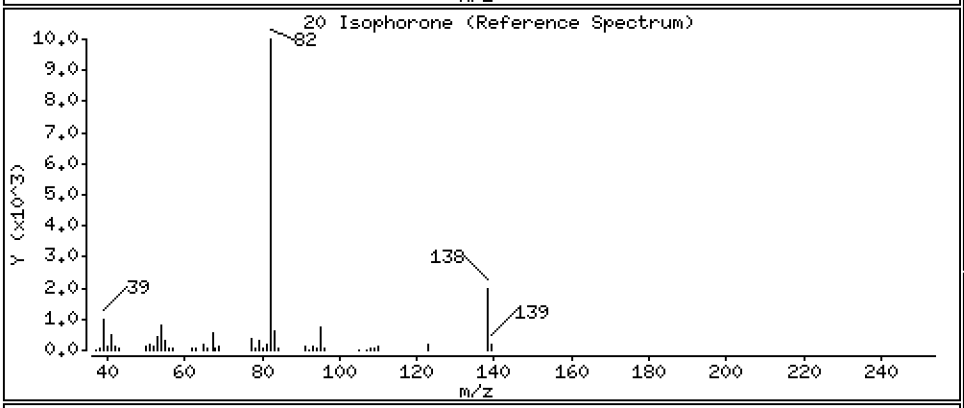
Concentration: 5.338 ug/mL

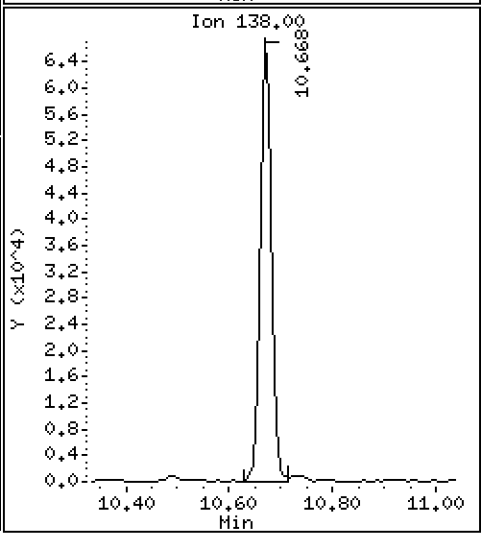


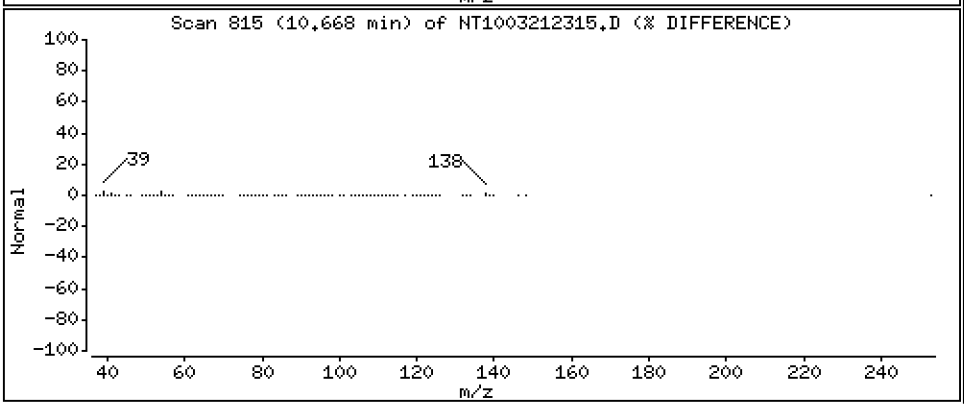












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Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS1

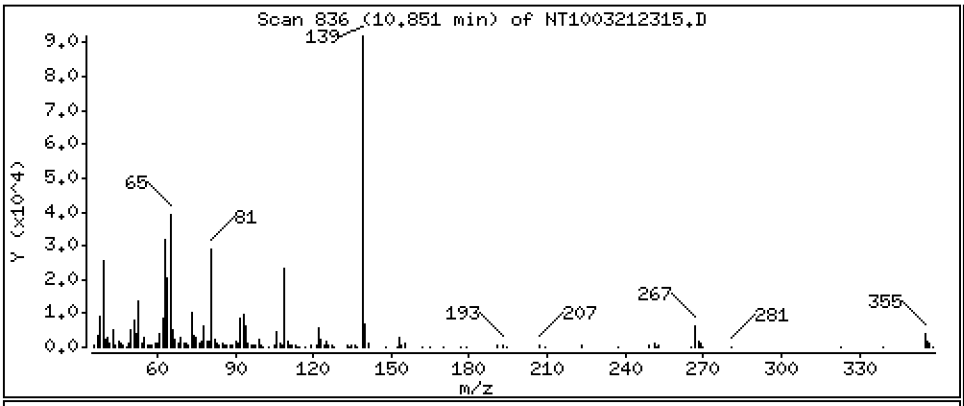
Operator: VTS

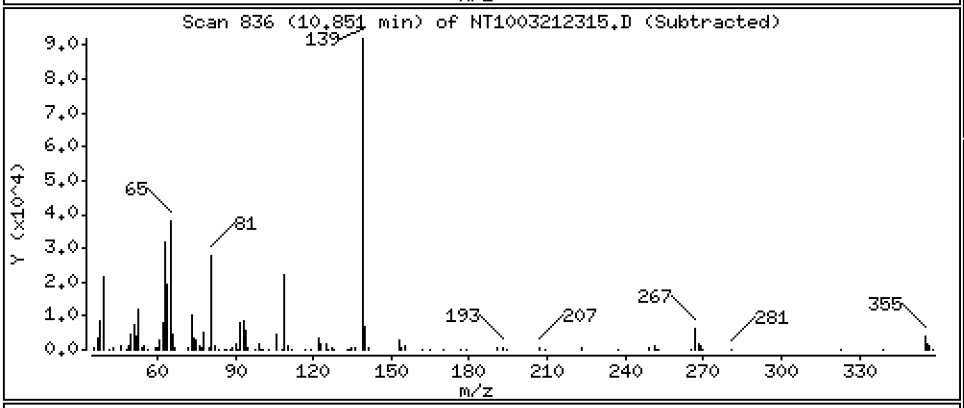
Column phase: ZB-5msi

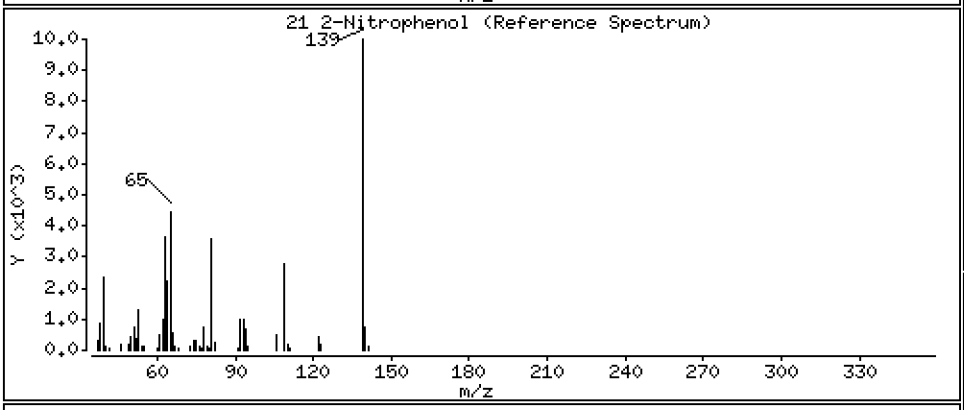
Column diameter: 0.25

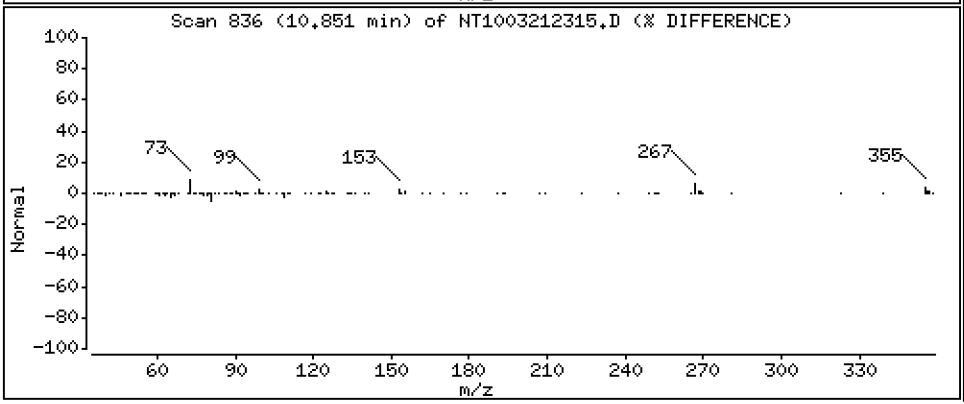
21 2-Nitrophenol

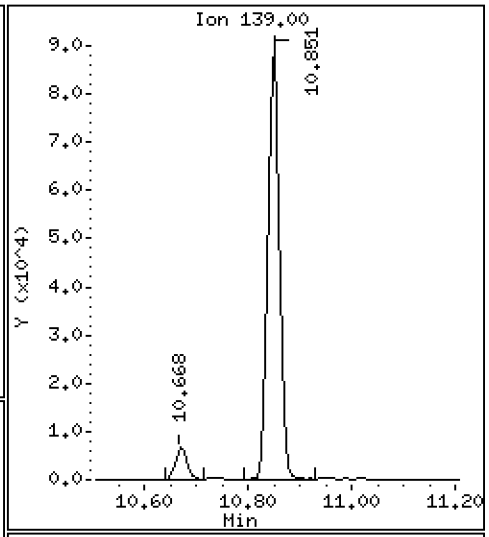
Concentration: 4.554 ug/mL

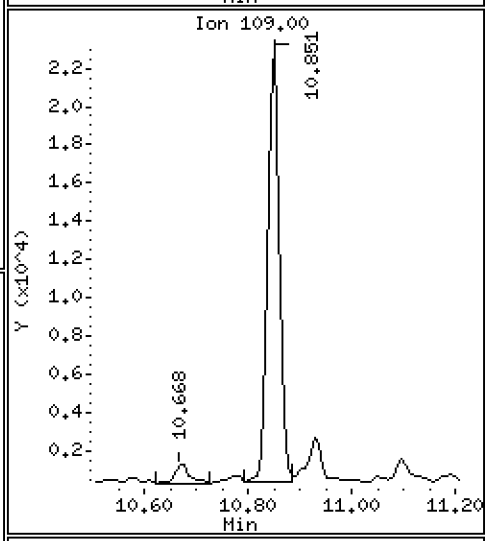


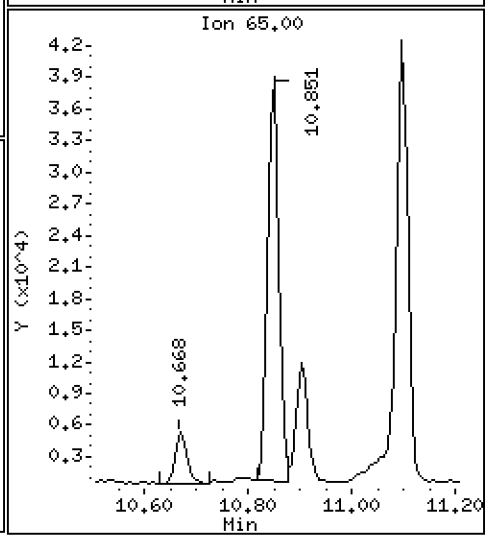












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Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS1

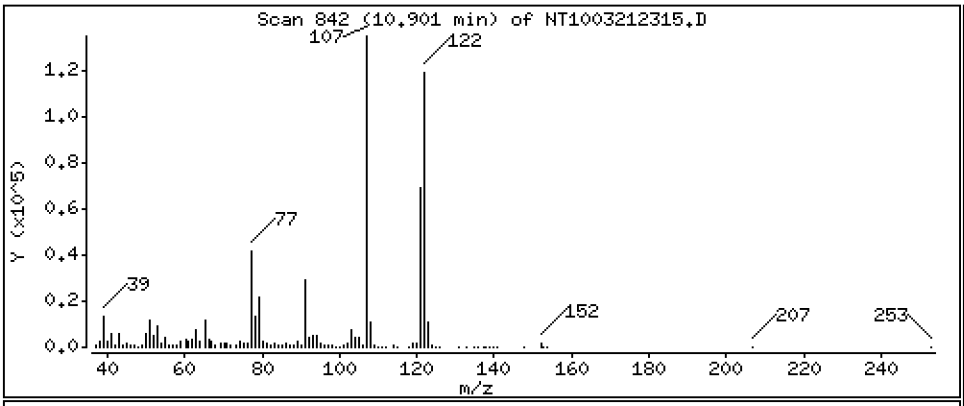
Operator: VTS

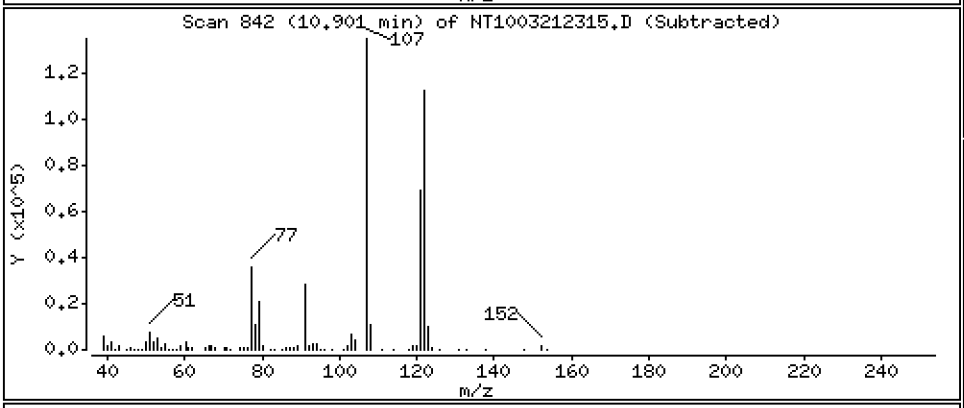
Column phase: ZB-5msi

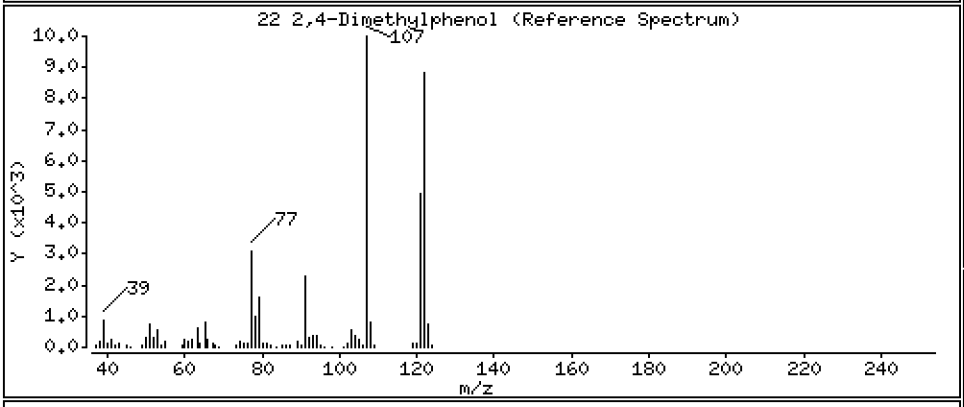
Column diameter: 0.25

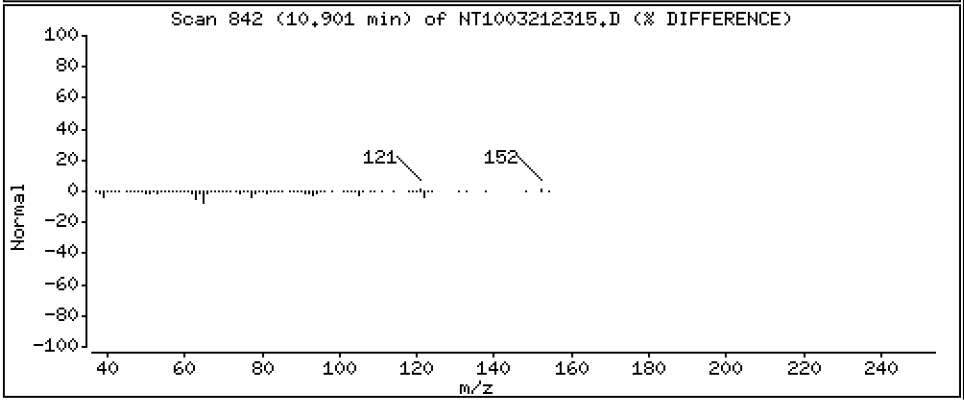
22 2,4-Dimethylphenol

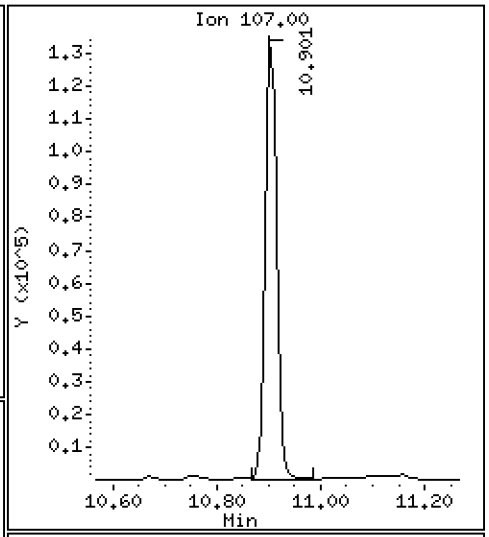
Concentration: 3.179 ug/mL

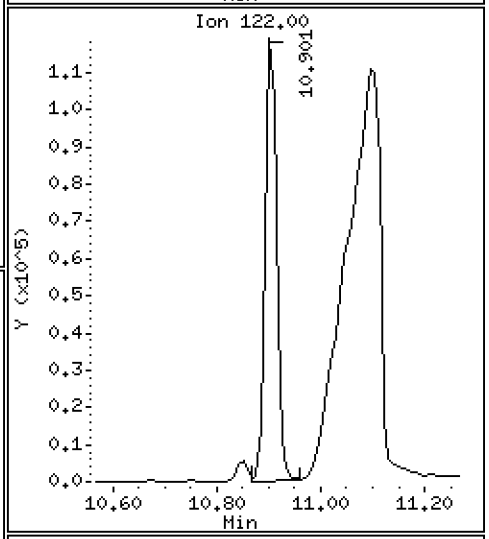


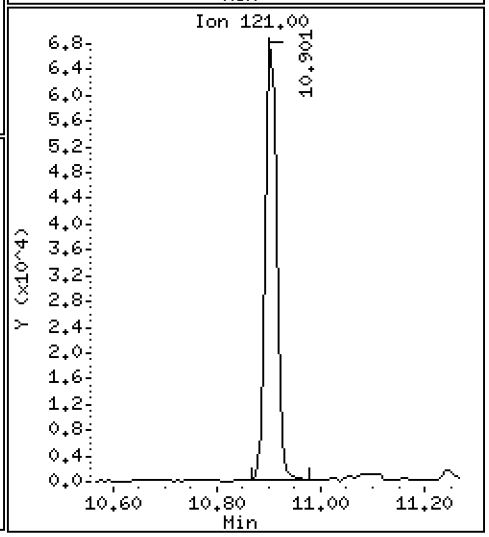












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Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS1

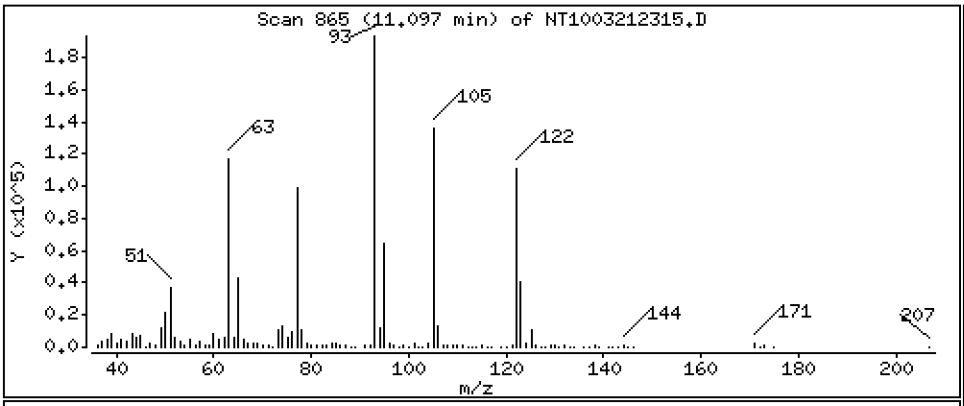
Operator: VTS

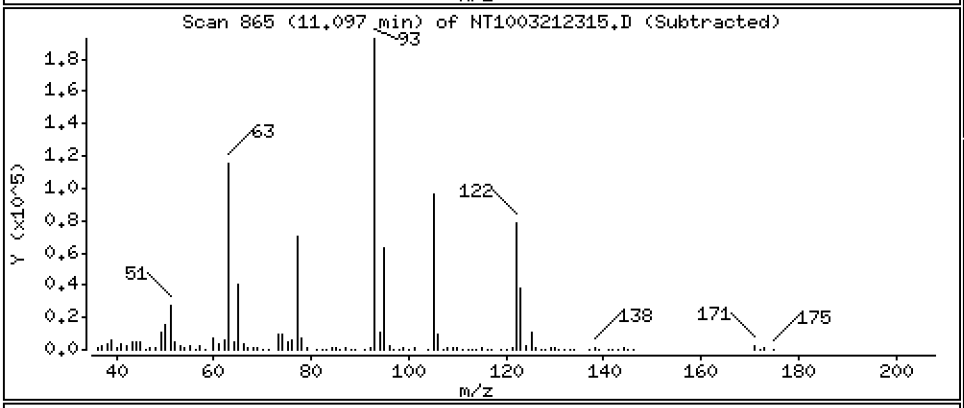
Column phase: ZB-5msi

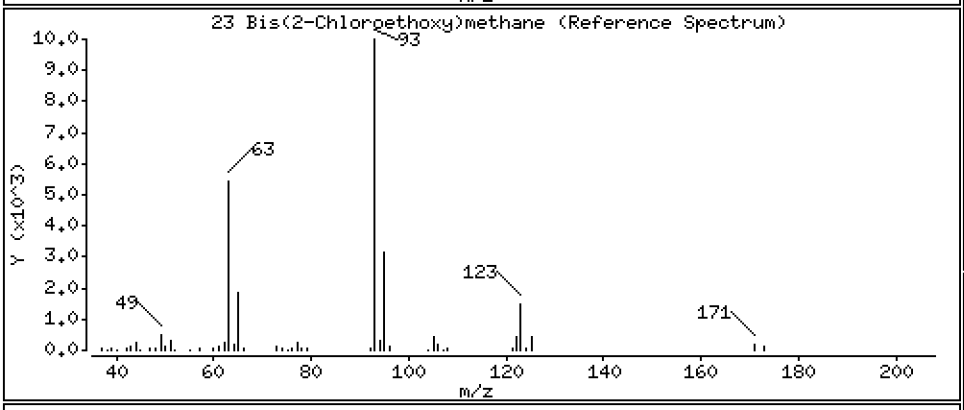
Column diameter: 0.25

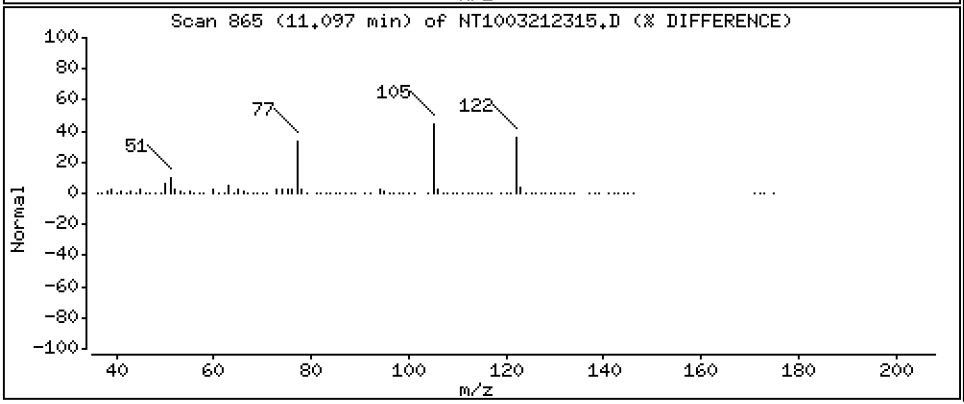
23 Bis(2-Chloroethoxy)methane

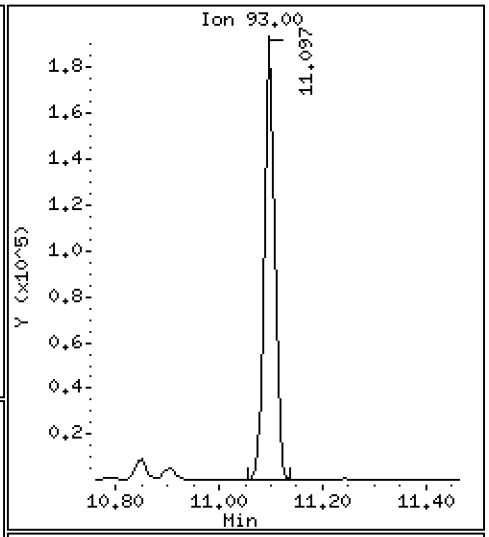
Concentration: 4.567 ug/mL

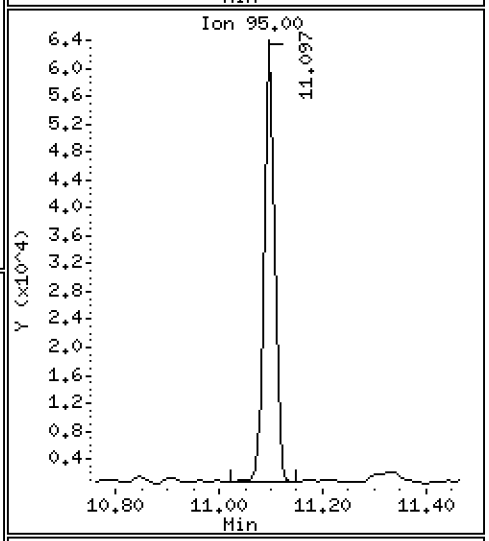


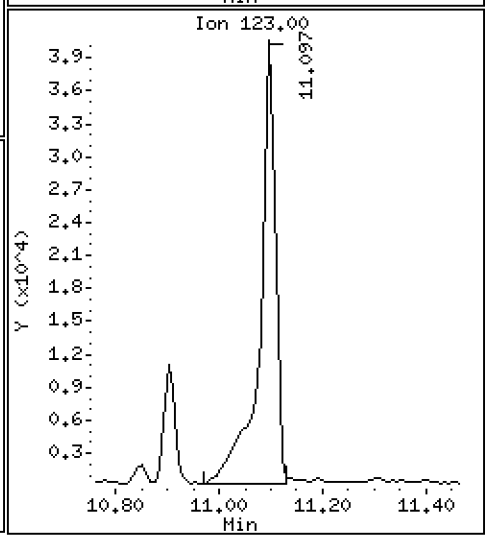












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Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS1

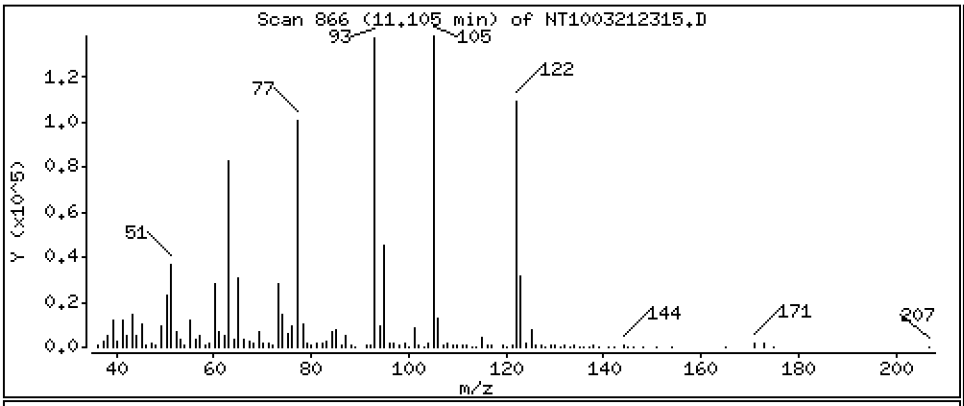
Operator: VTS

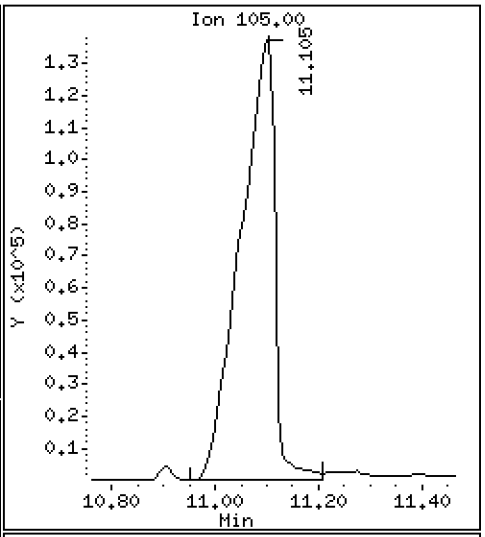
Column phase: ZB-5msi

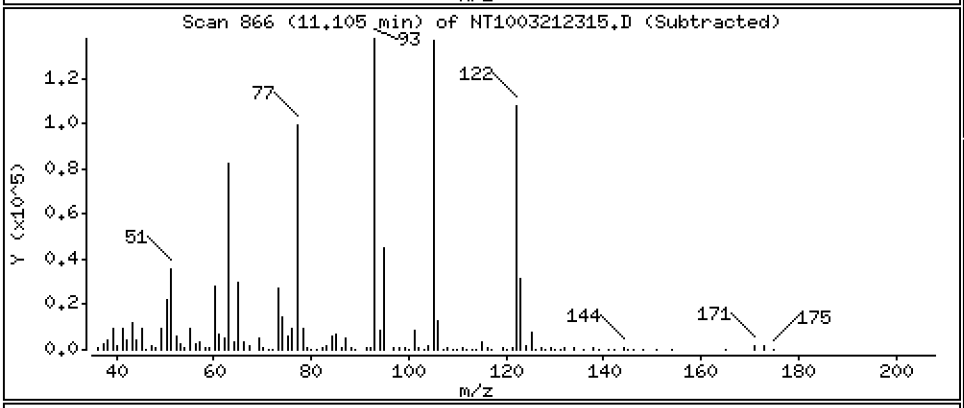
Column diameter: 0.25

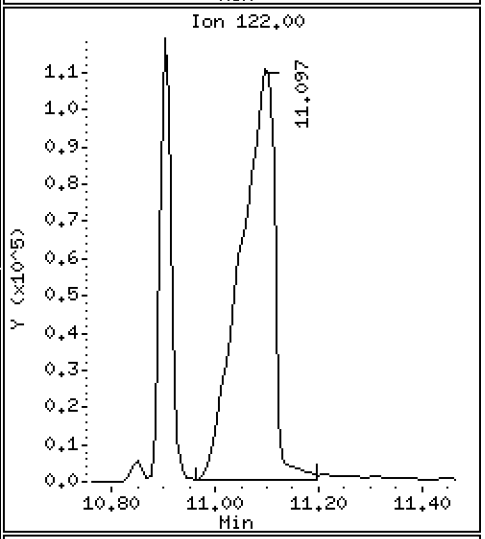
24 Benzoic acid

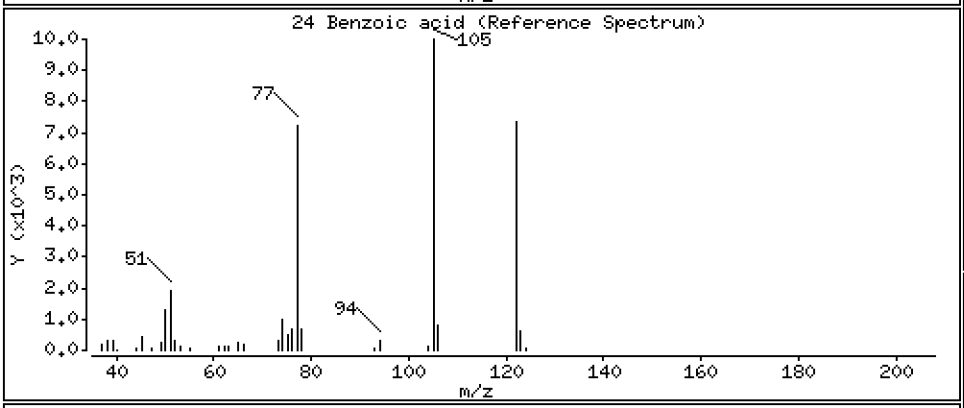
Concentration: 17.02 ug/mL

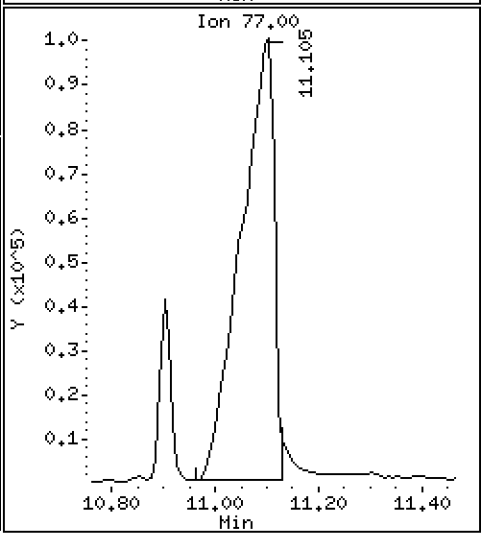


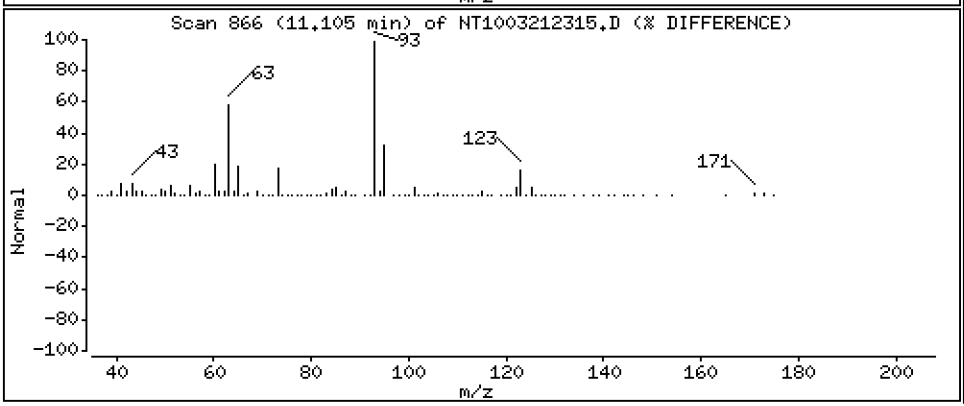












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Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS1

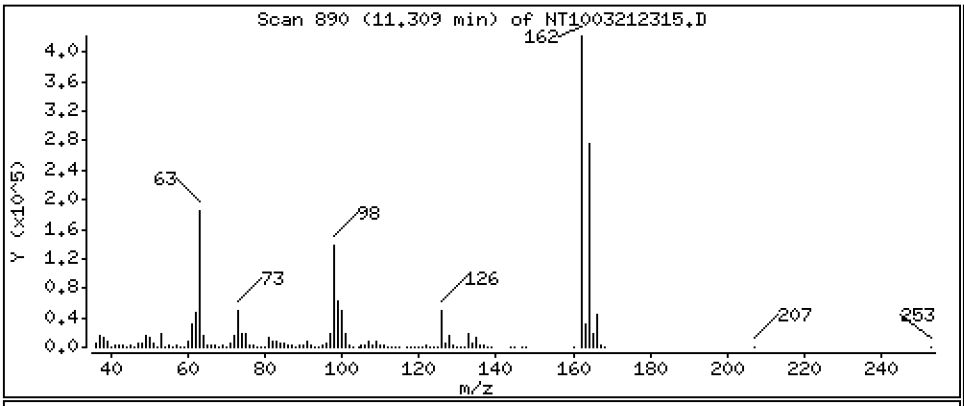
Operator: VTS

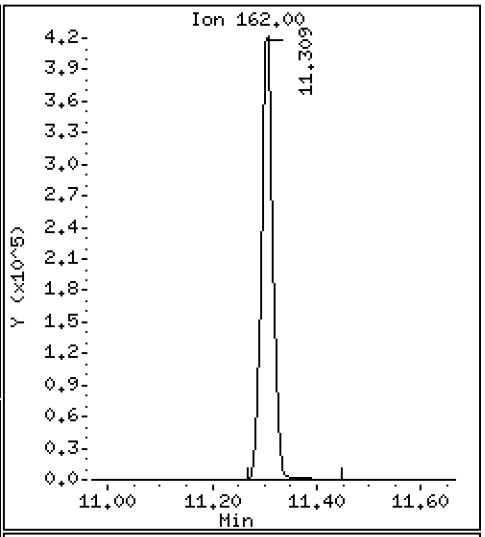
Column phase: ZB-5msi

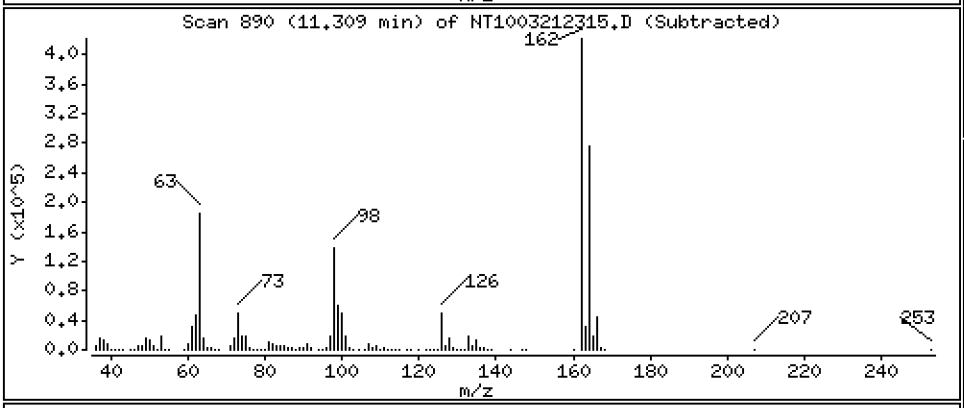
Column diameter: 0.25

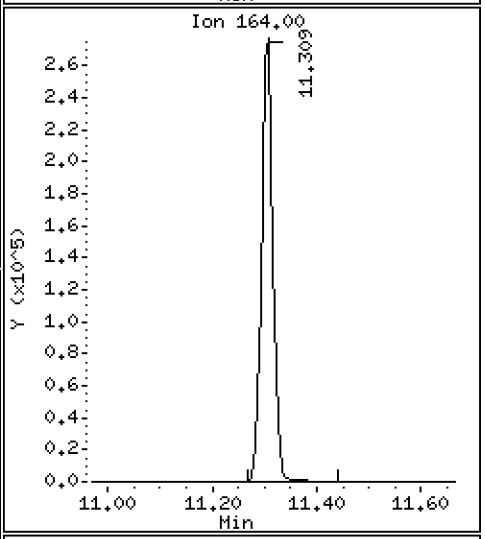
25 2,4-Dichlorophenol

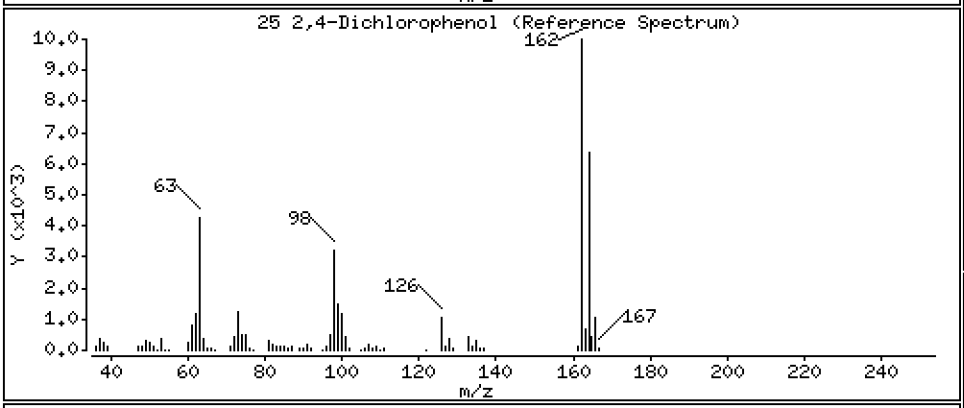
Concentration: 14.28 ug/mL

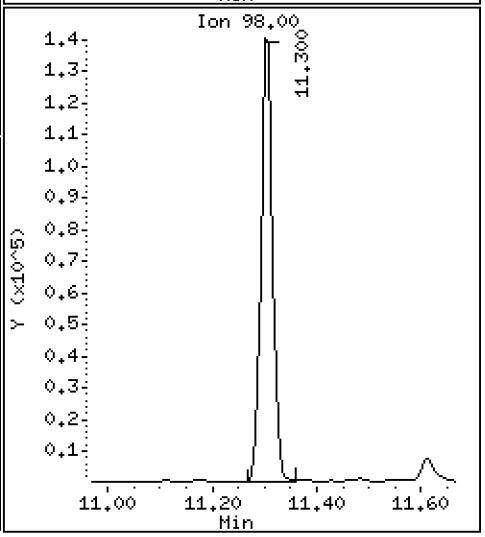


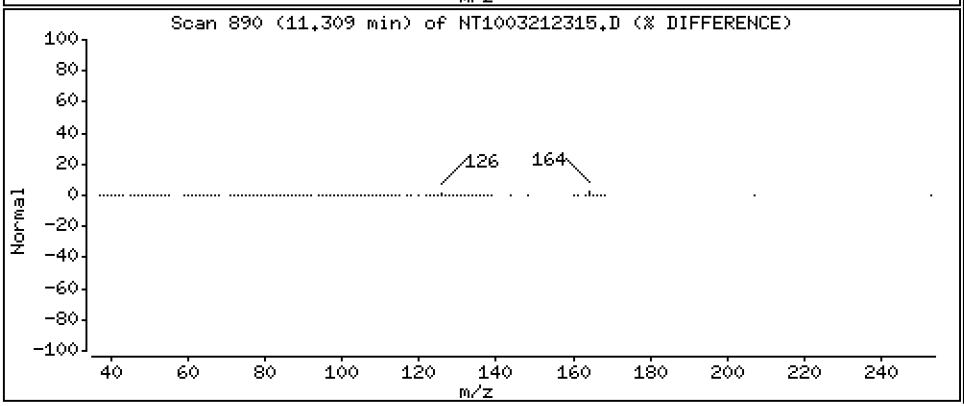












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Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS1

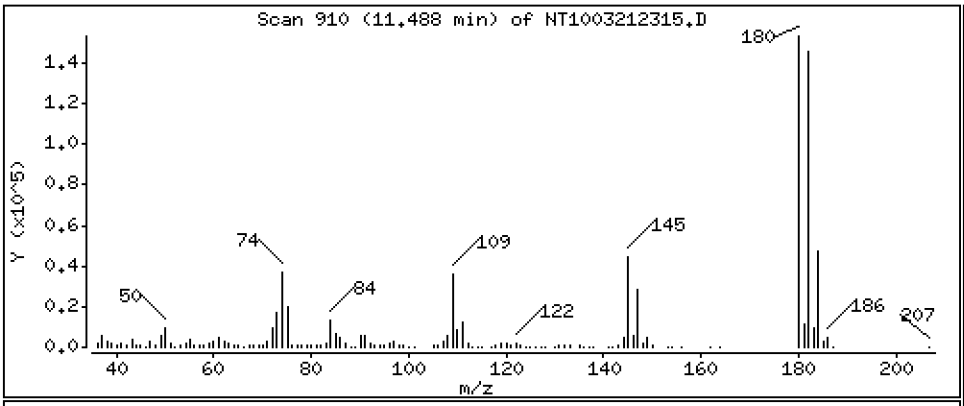
Operator: VTS

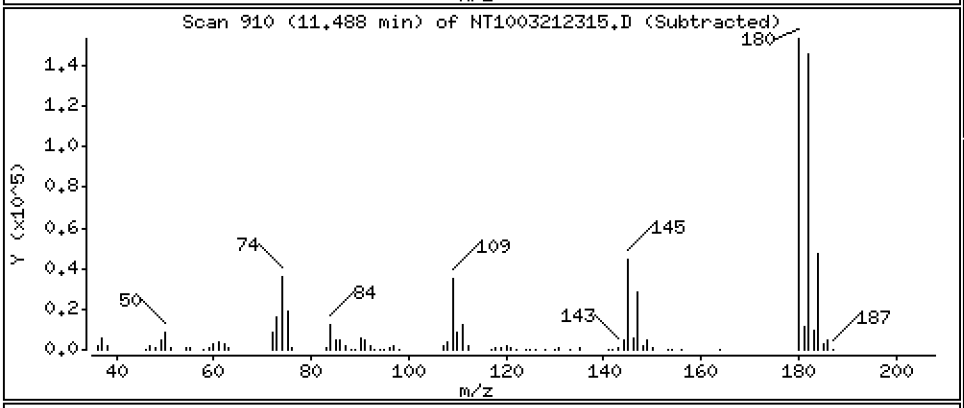
Column phase: ZB-5msi

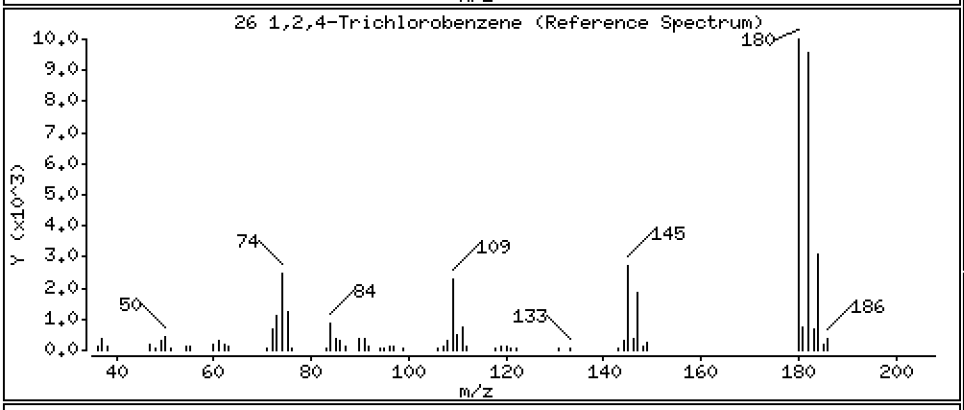
Column diameter: 0.25

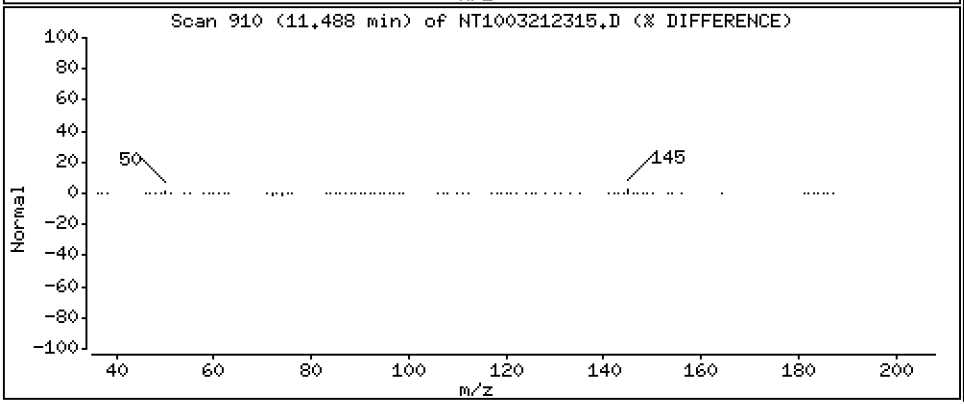
26 1,2,4-Trichlorobenzene

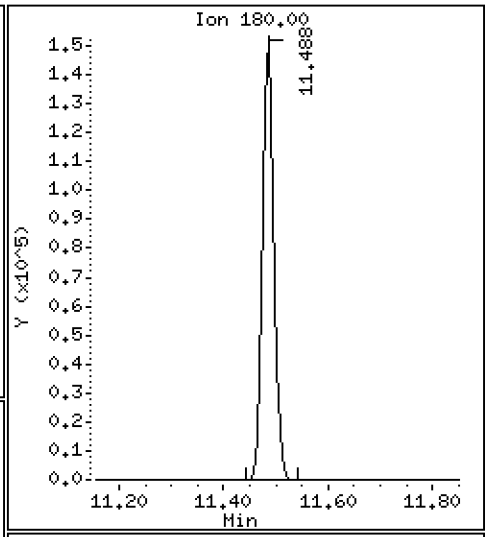
Concentration: 3.868 ug/mL

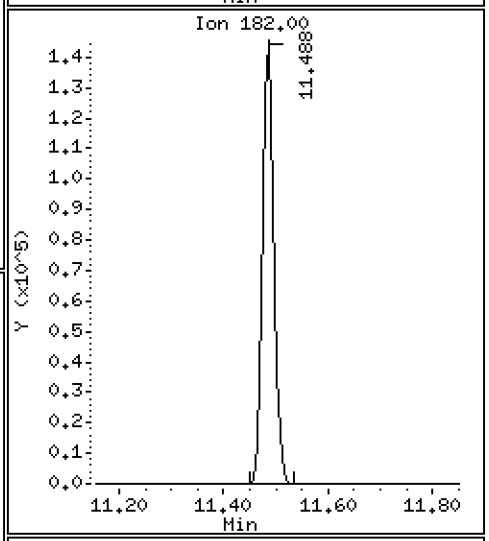


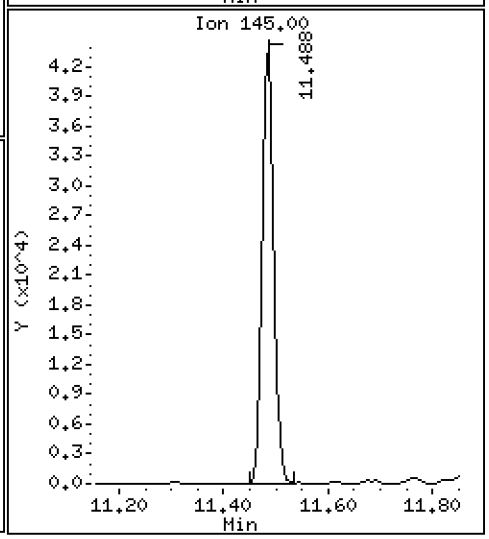












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Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS1

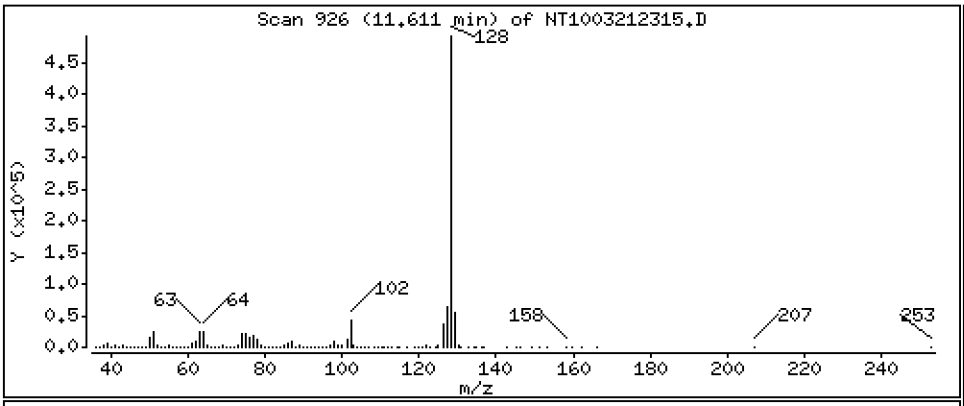
Operator: VTS

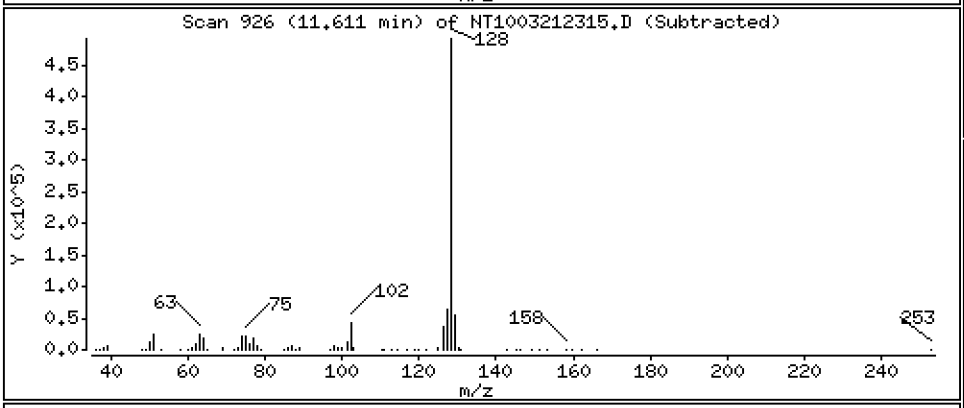
Column phase: ZB-5msi

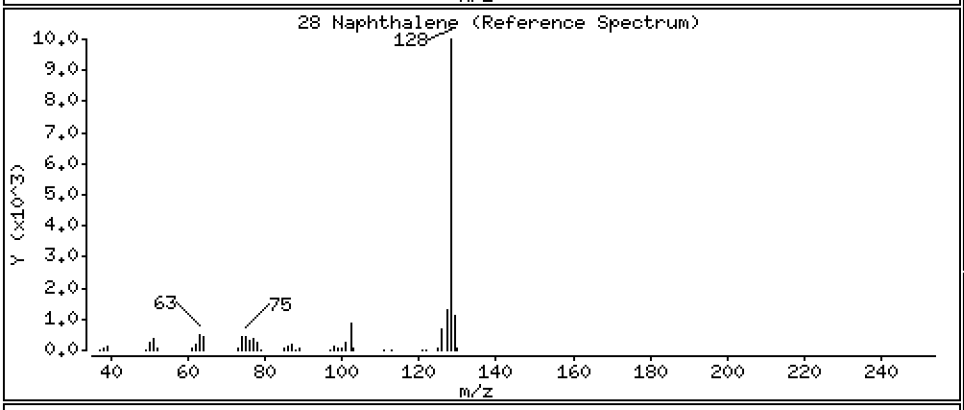
Column diameter: 0.25

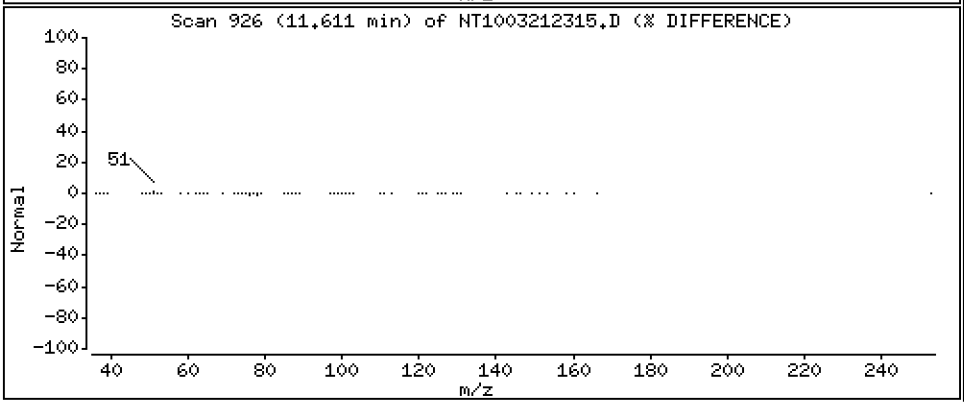
28 Naphthalene

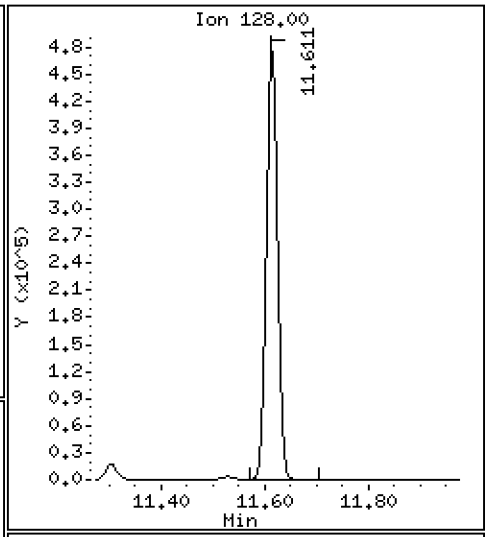
Concentration: 3.989 ug/mL

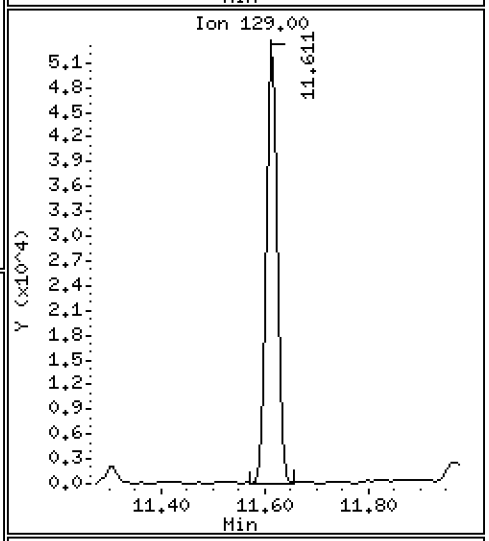


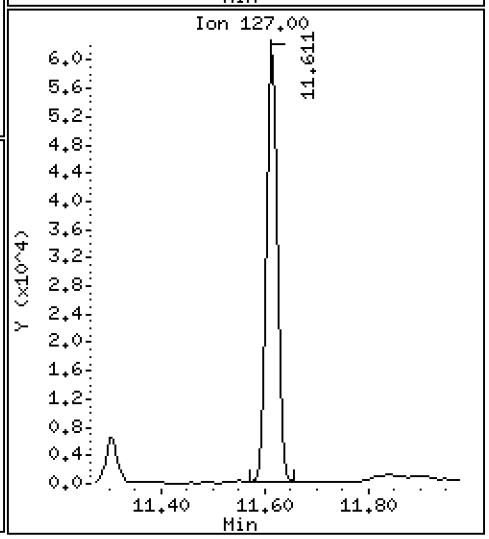












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Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS1

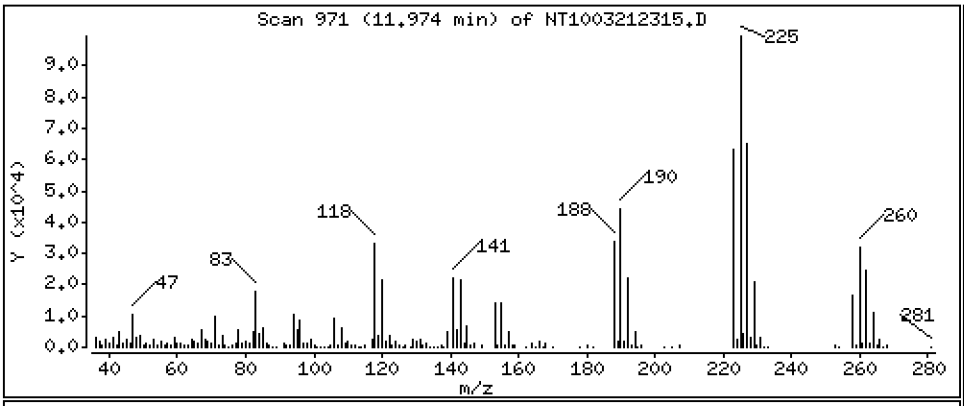
Operator: VTS

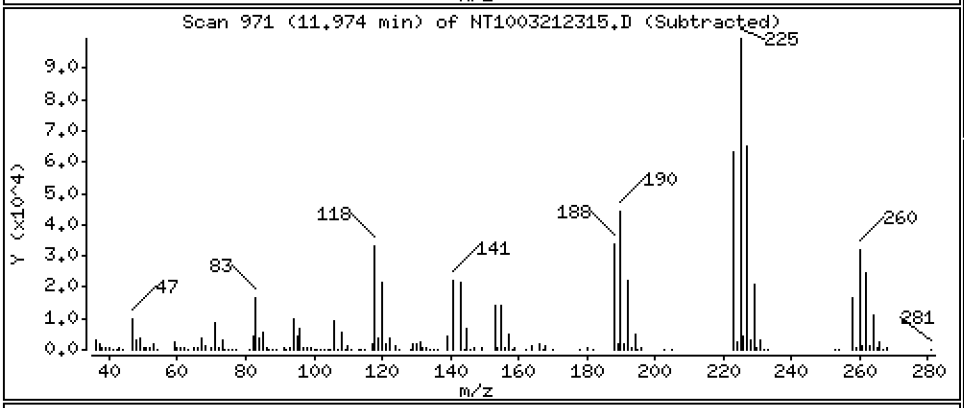
Column phase: ZB-5msi

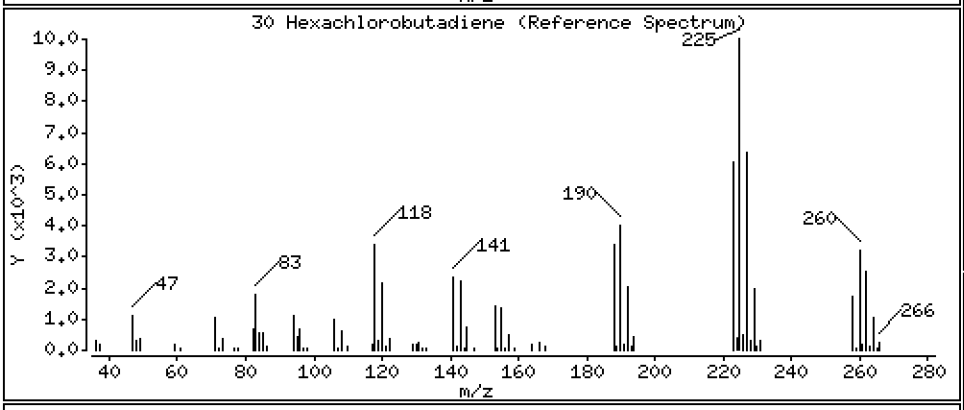
Column diameter: 0.25

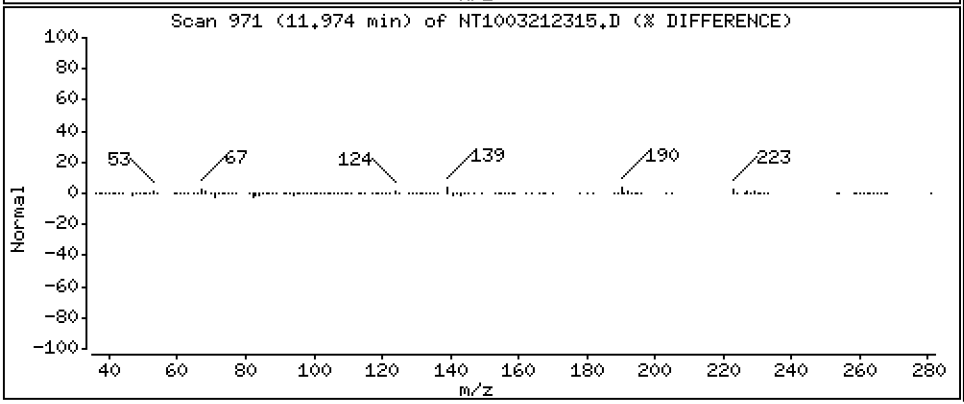
30 Hexachlorobutadiene

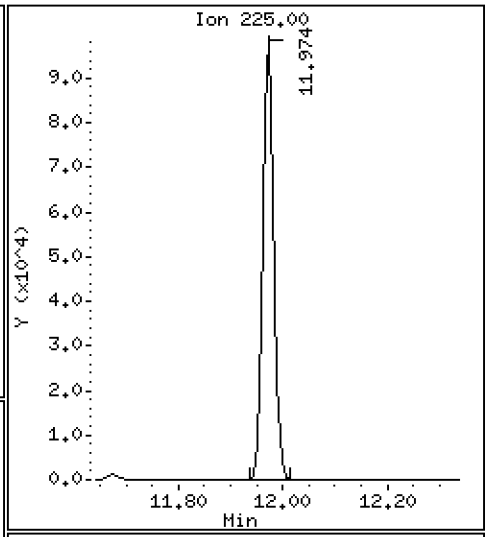
Concentration: 4.132 ug/mL

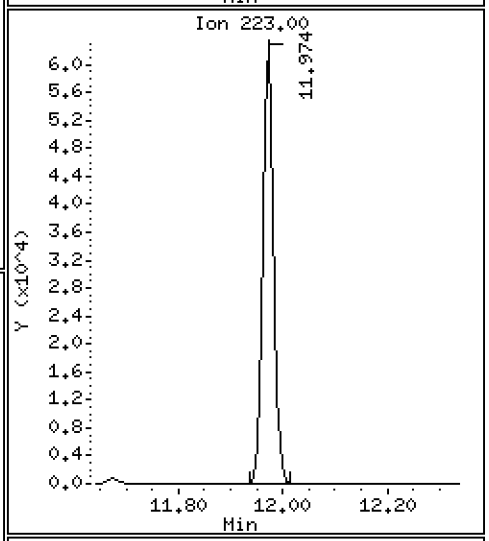


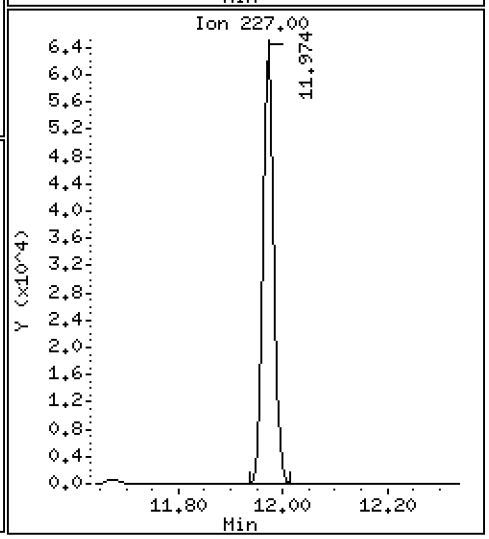












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Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS1

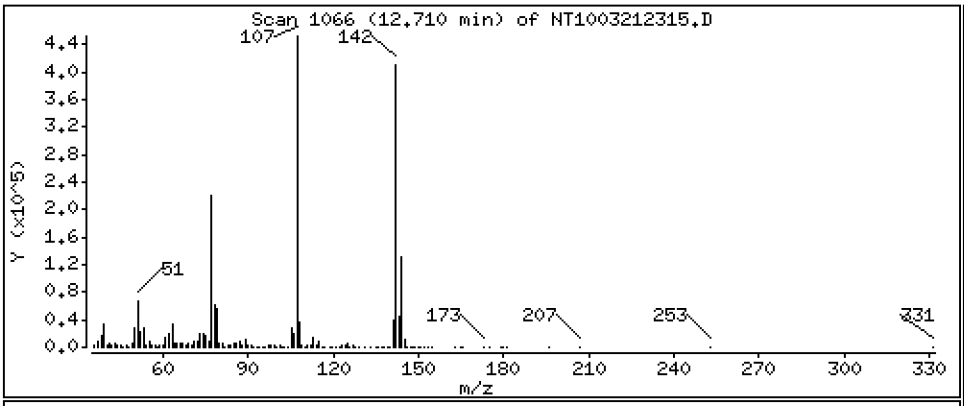
Operator: VTS

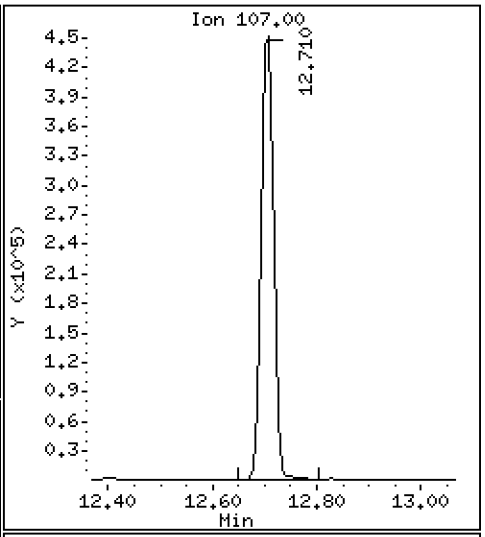
Column phase: ZB-5msi

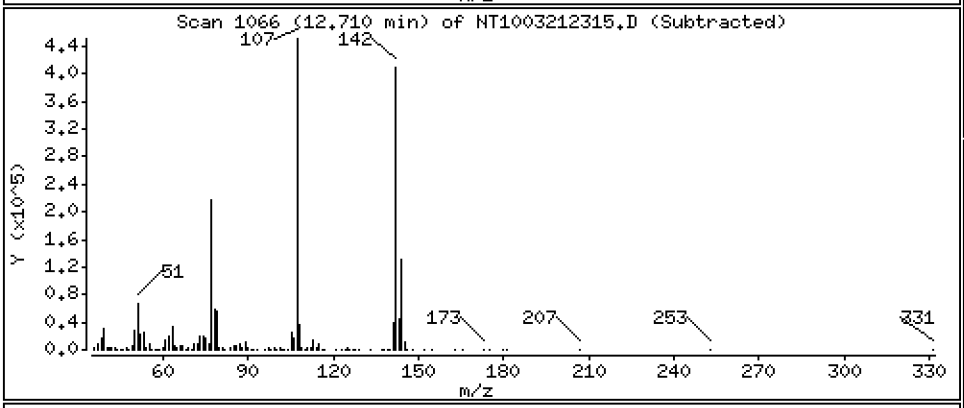
Column diameter: 0.25

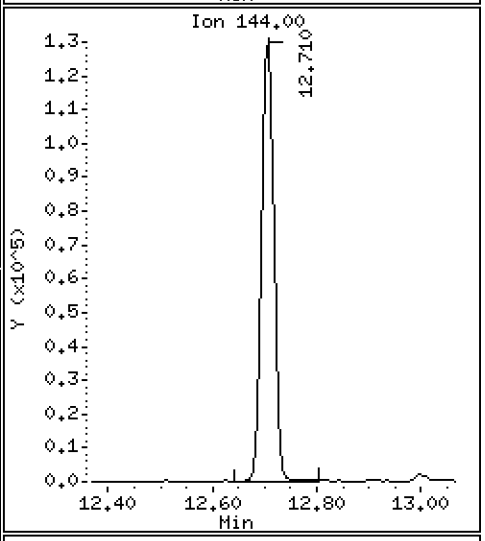
31 4-Chloro-3-methylphenol

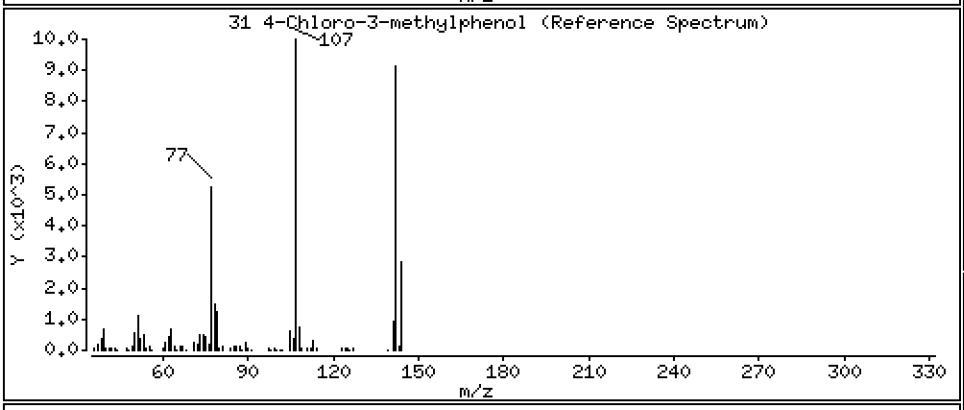
Concentration: 12.93 ug/mL

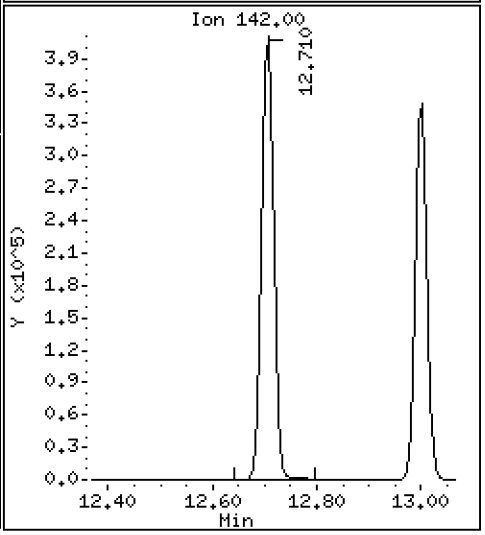


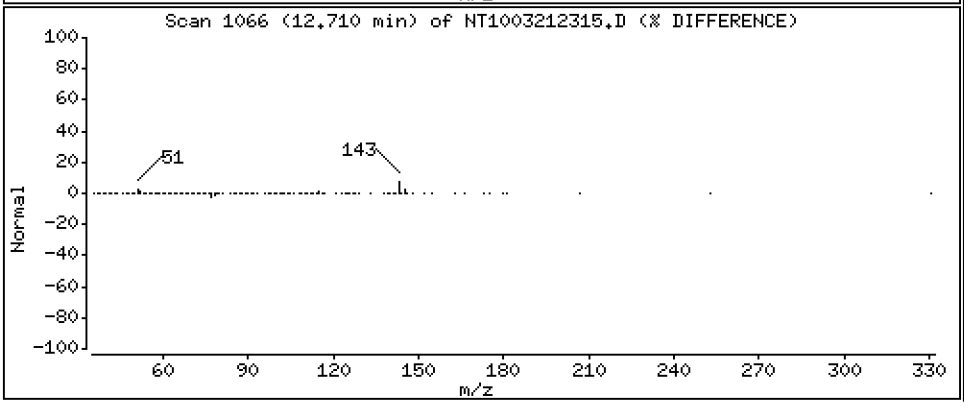












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Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS1

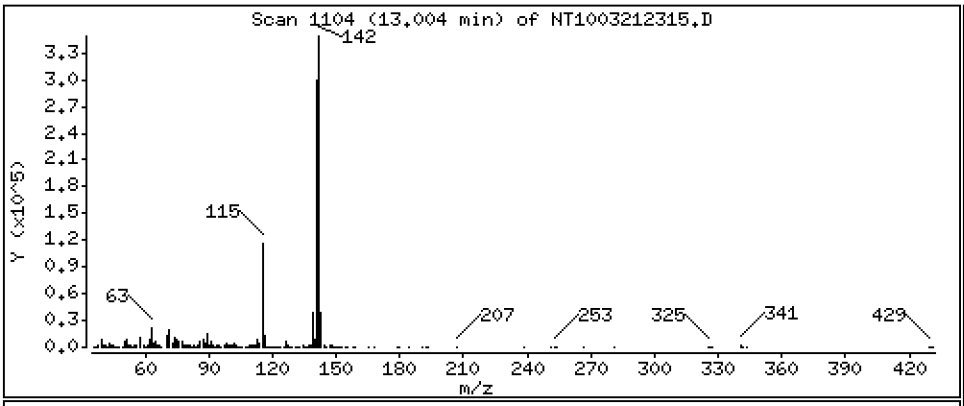
Operator: VTS

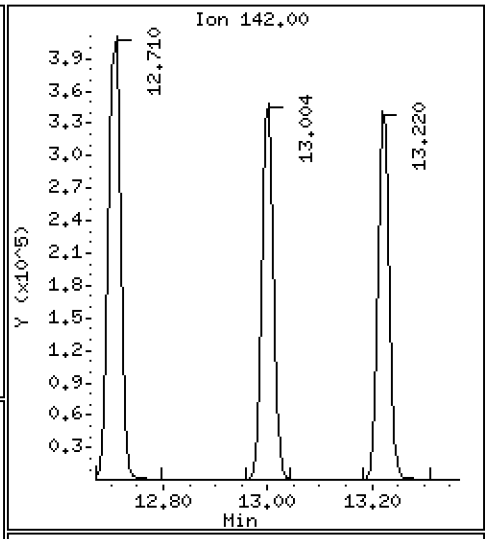
Column phase: ZB-5msi

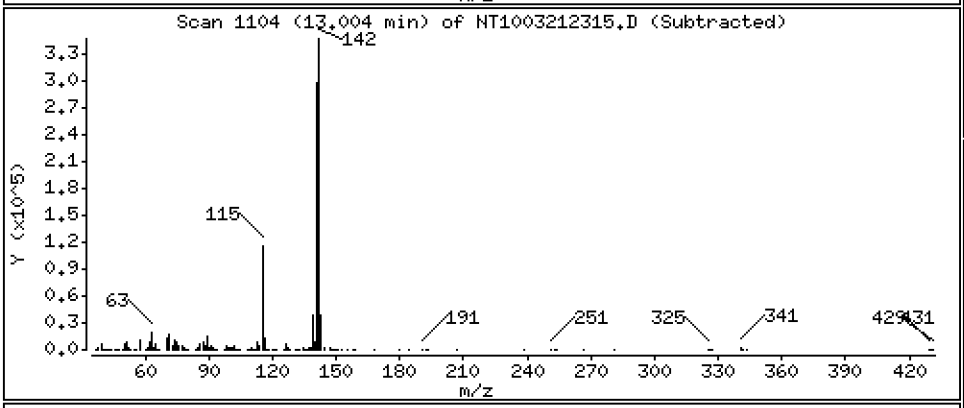
Column diameter: 0.25

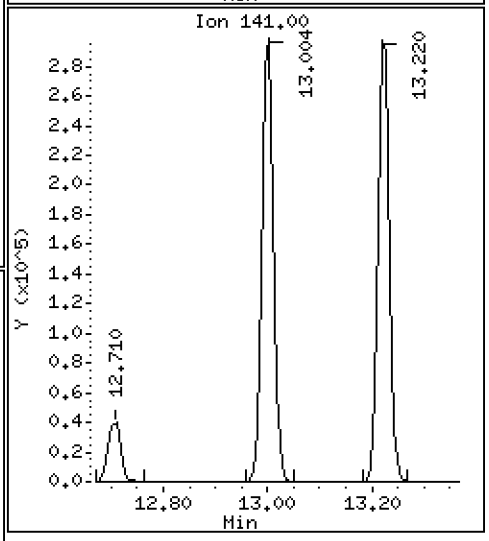
32 2-Methylnaphthalene

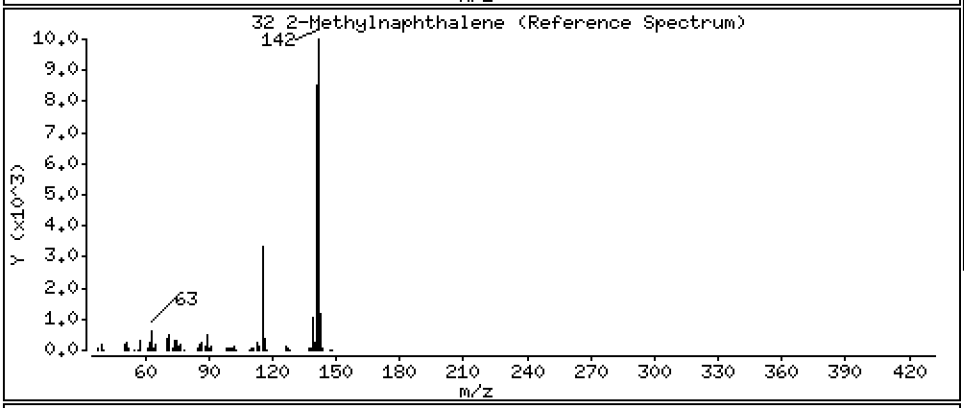
Concentration: 4.089 ug/mL

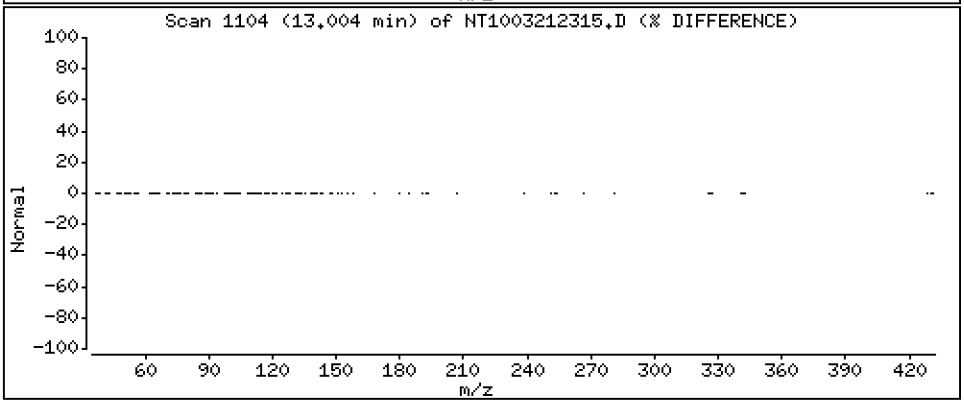












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212315.D

Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS1

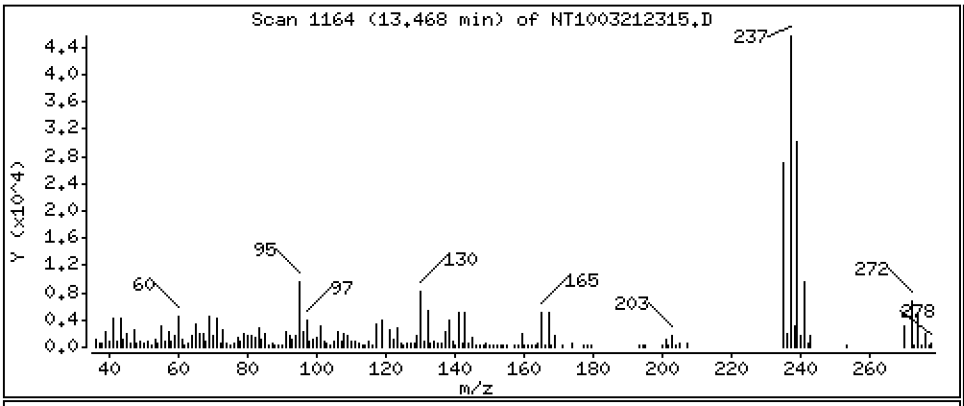
Operator: VTS

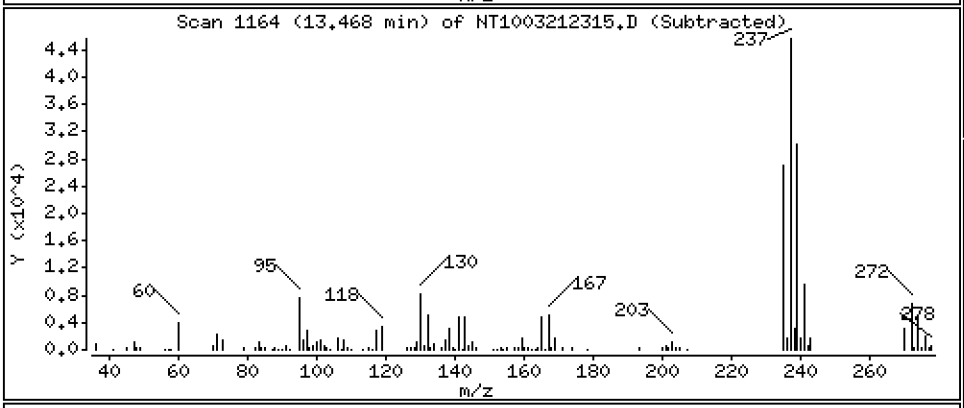
Column phase: ZB-5msi

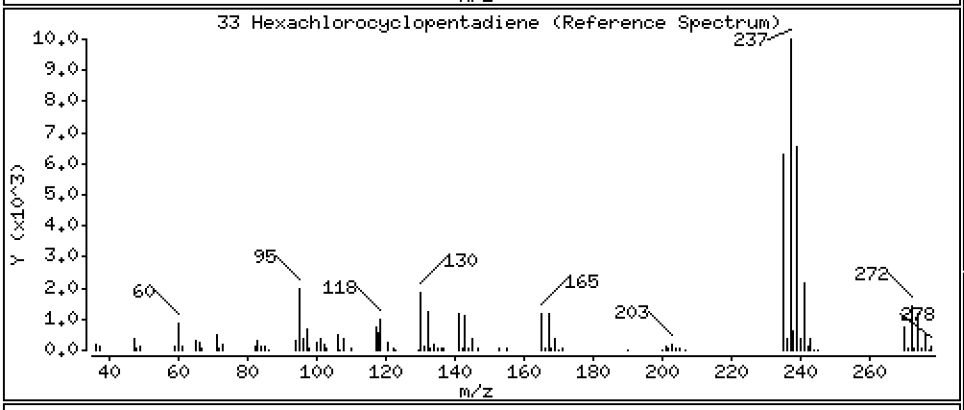
Column diameter: 0.25

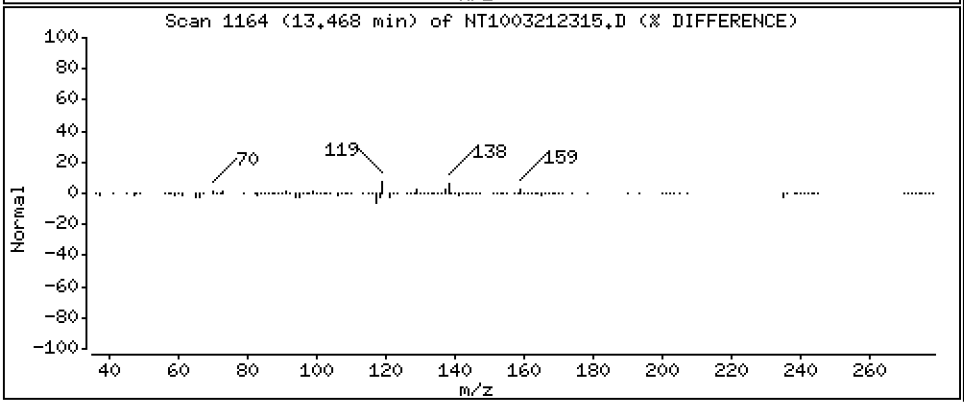
33 Hexachlorocyclopentadiene

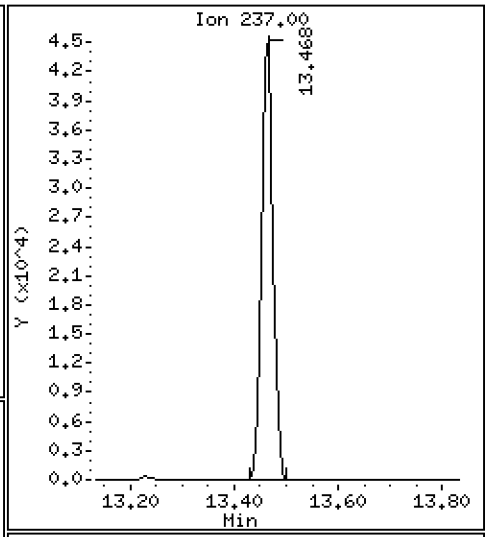
Concentration: 1.864 ug/mL

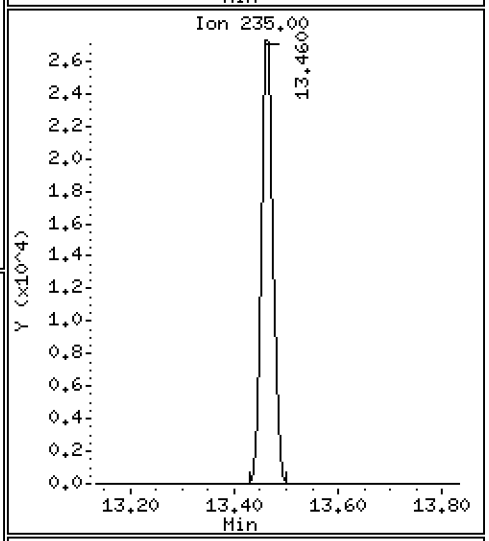


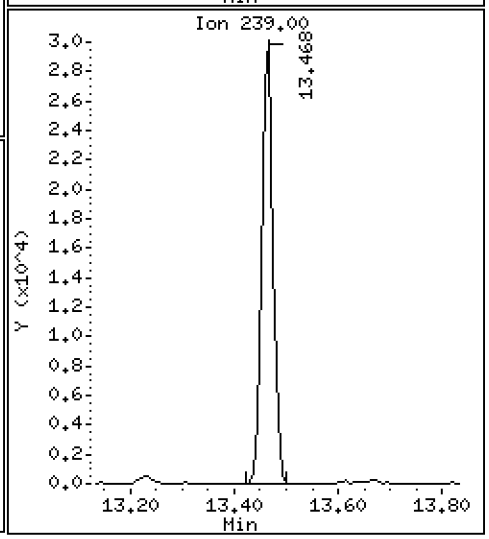












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Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS1

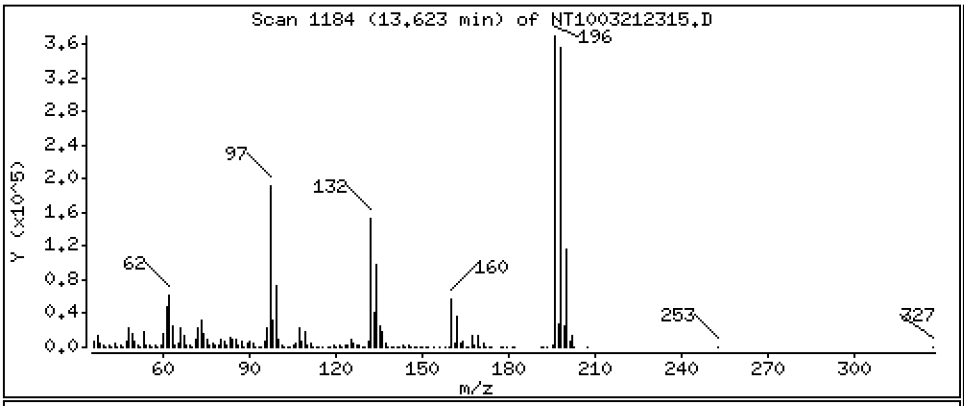
Operator: VTS

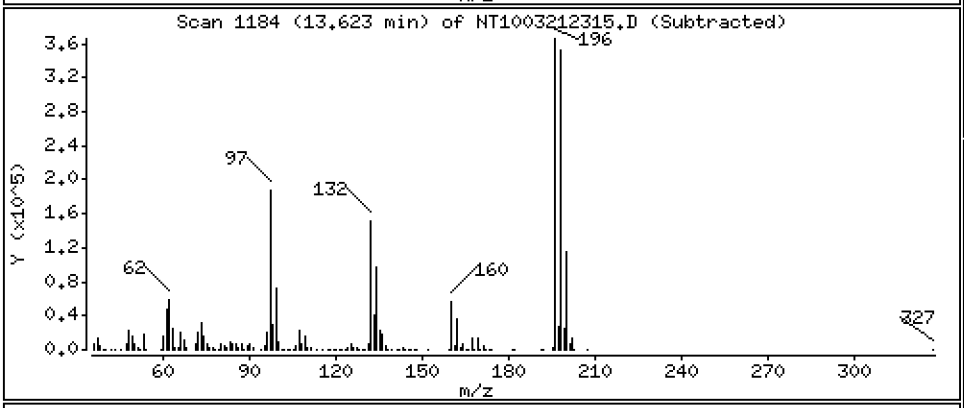
Column phase: ZB-5msi

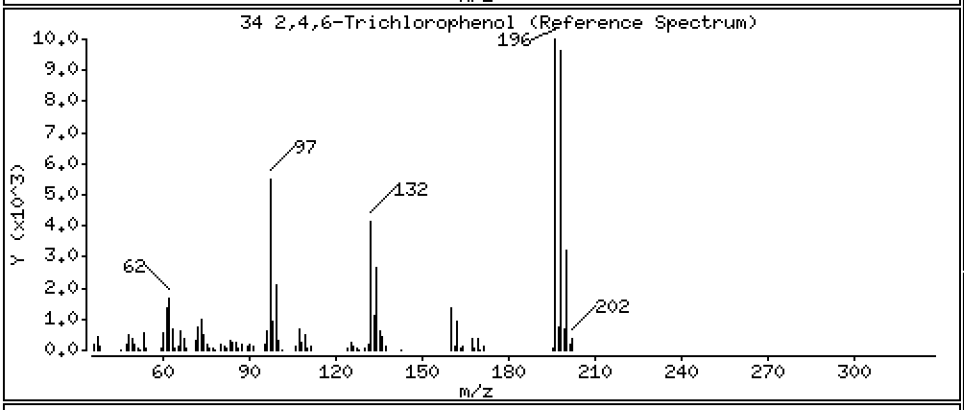
Column diameter: 0.25

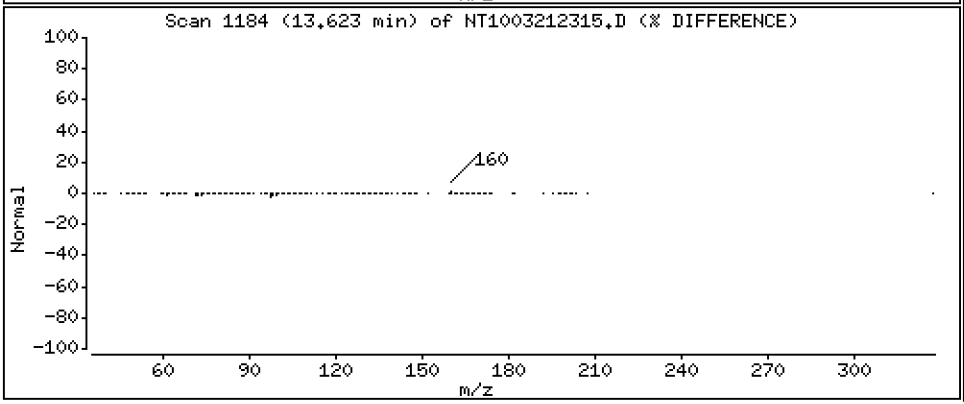
34 2,4,6-Trichlorophenol

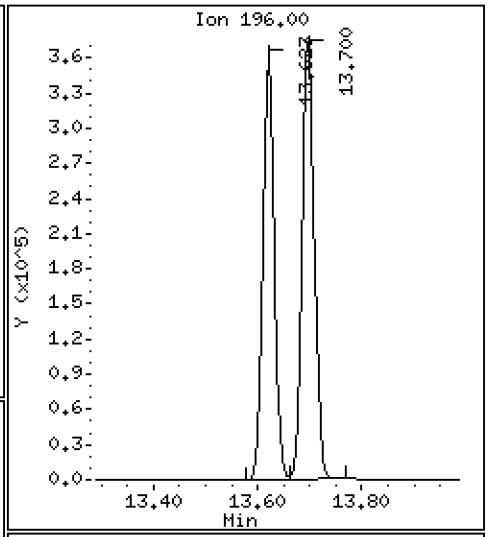
Concentration: 14.19 ug/mL

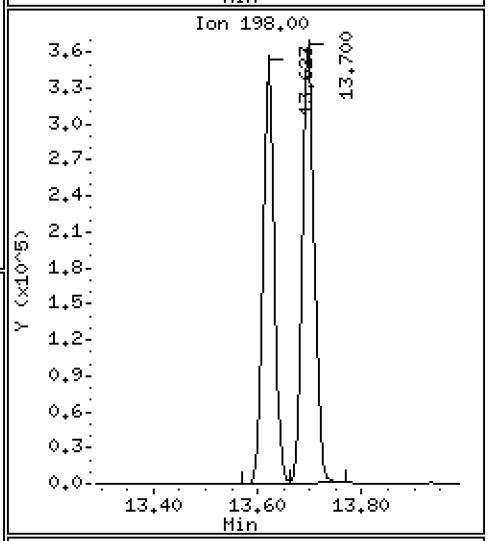


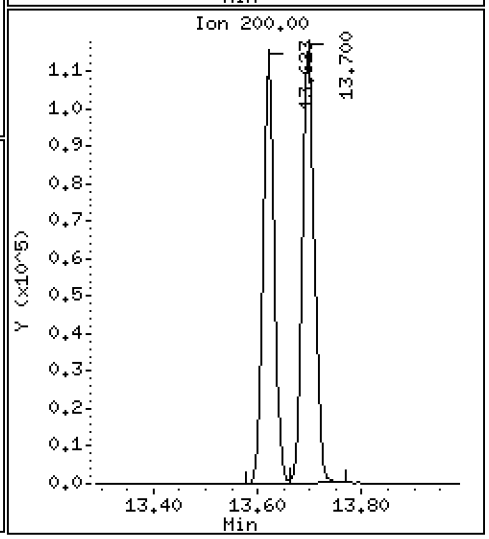












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Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS1

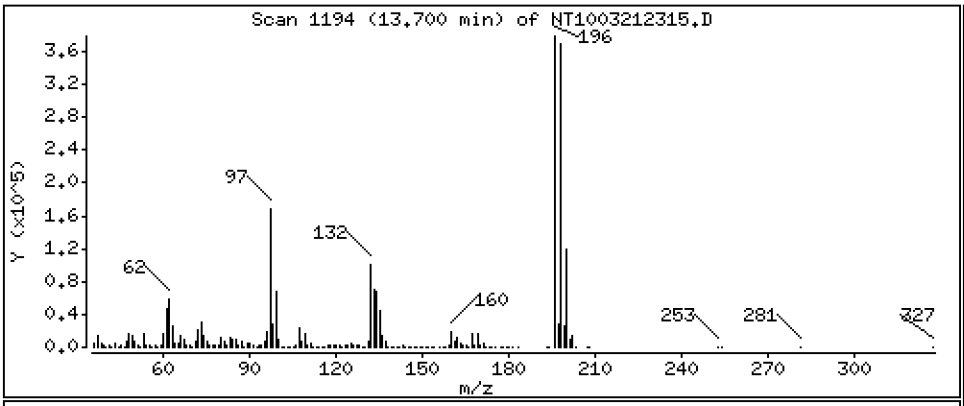
Operator: VTS

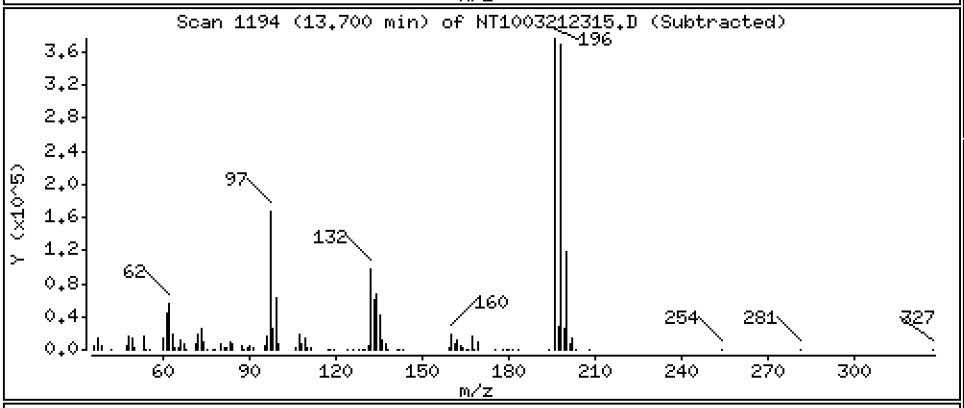
Column phase: ZB-5msi

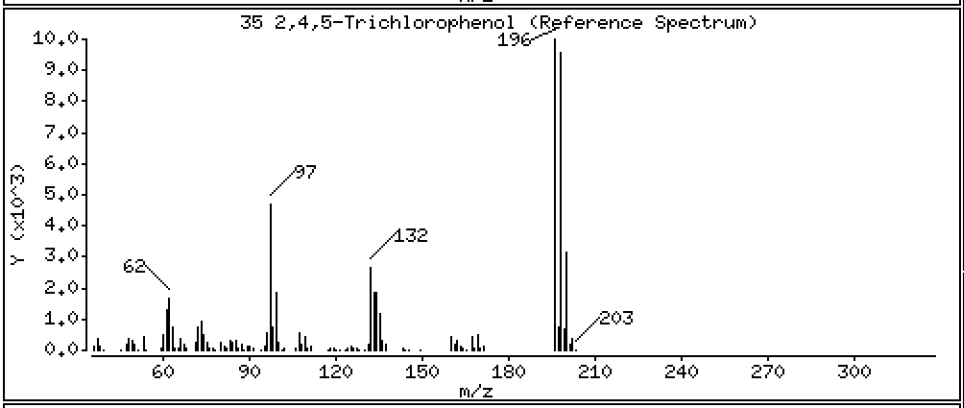
Column diameter: 0.25

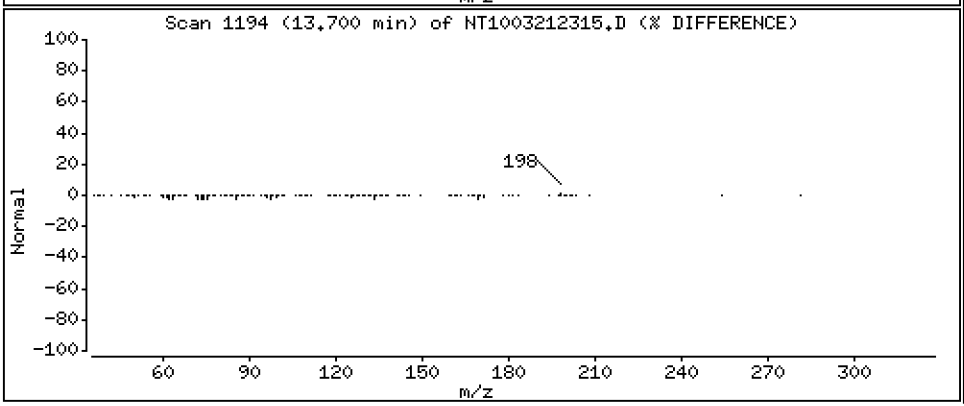
35 2,4,5-Trichlorophenol

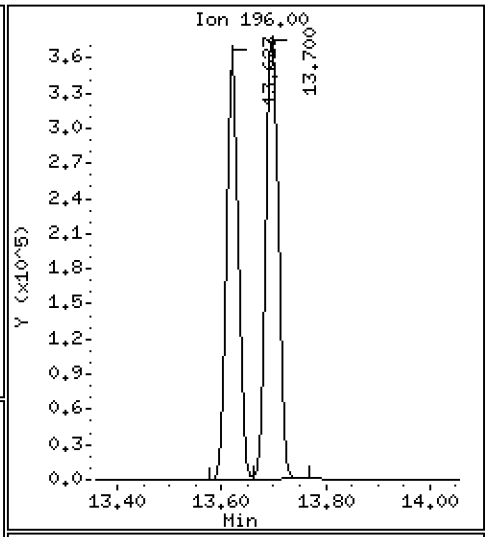
Concentration: 13.77 ug/mL

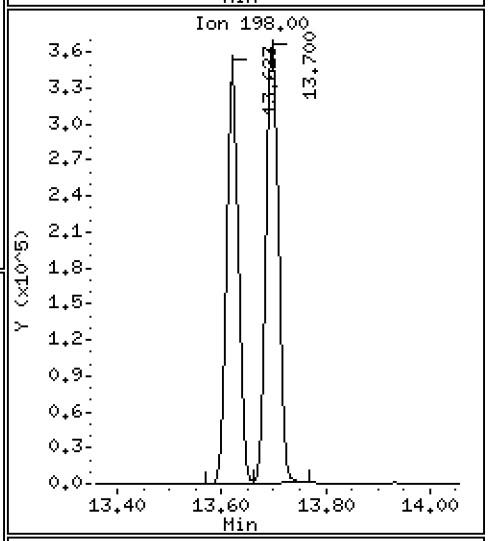


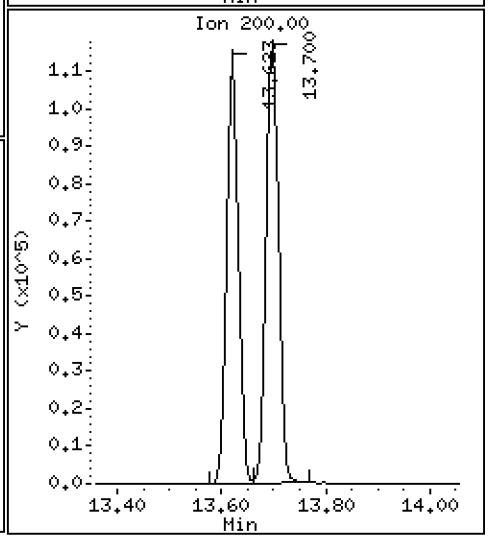












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Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS1

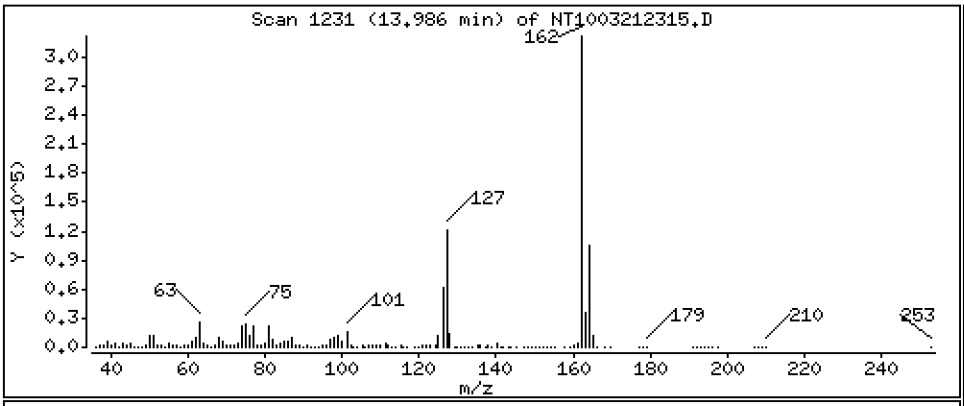
Operator: VTS

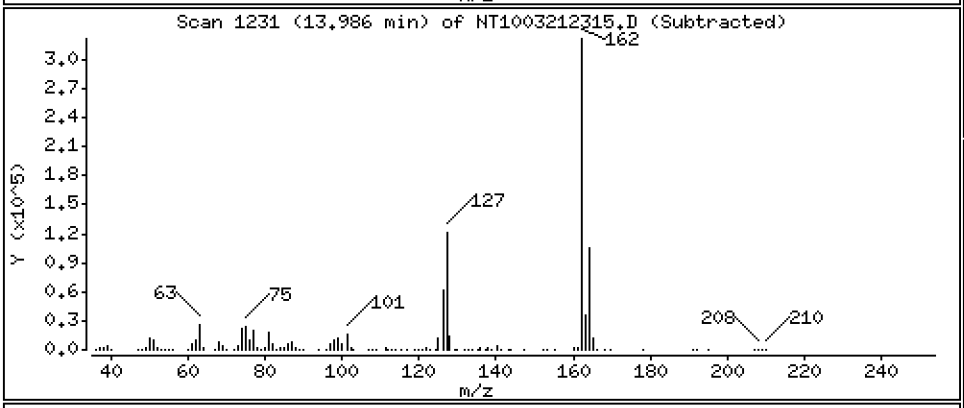
Column phase: ZB-5msi

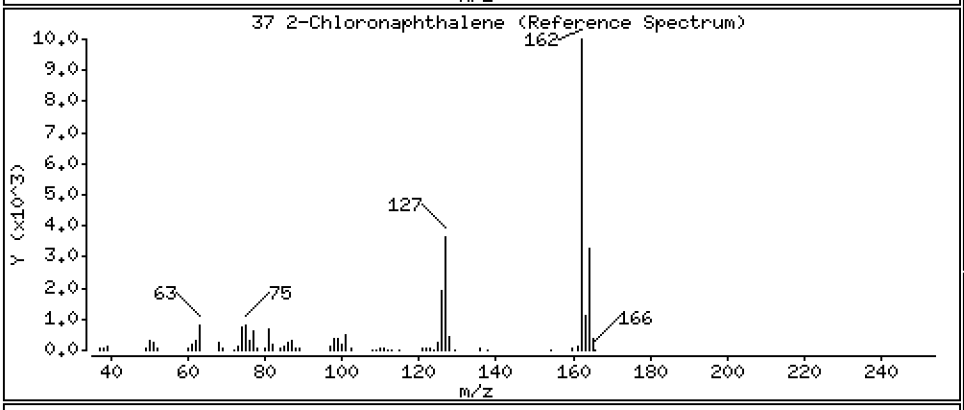
Column diameter: 0.25

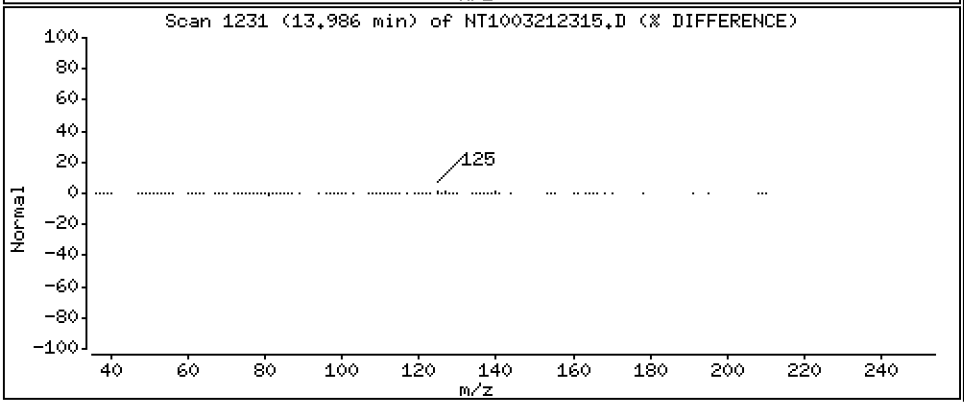
37 2-Chloronaphthalene

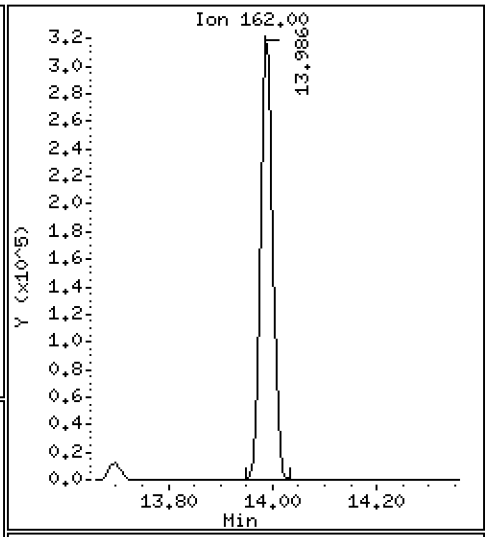
Concentration: 4.078 ug/mL

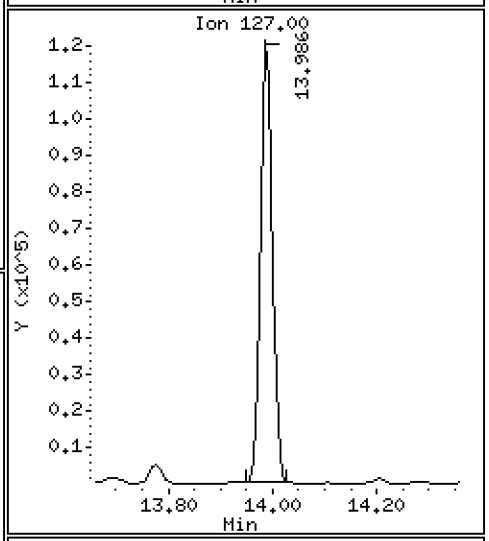


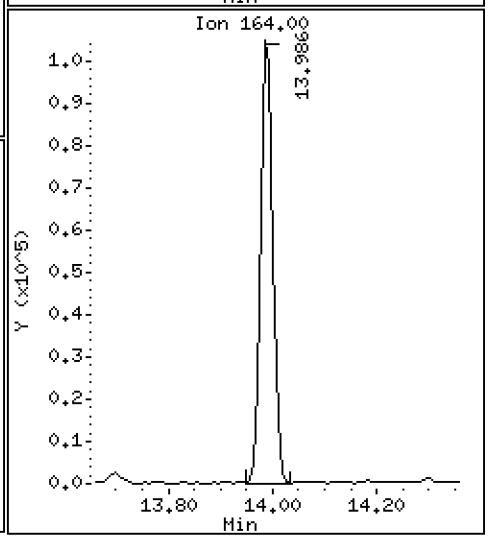












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Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS1

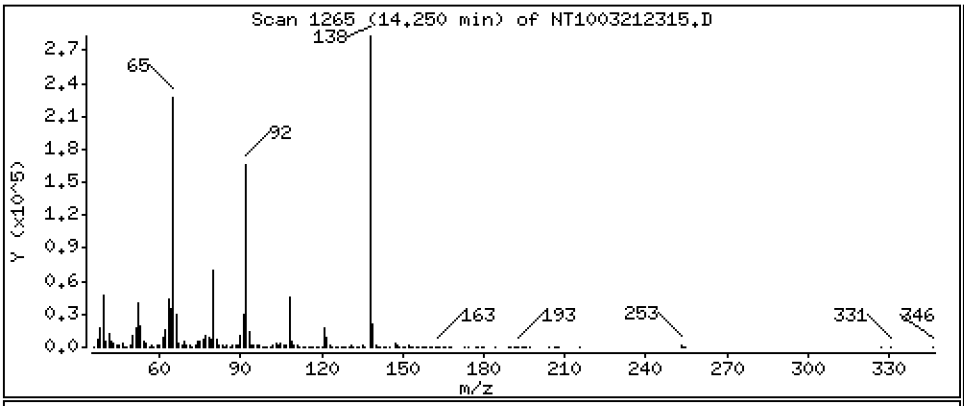
Operator: VTS

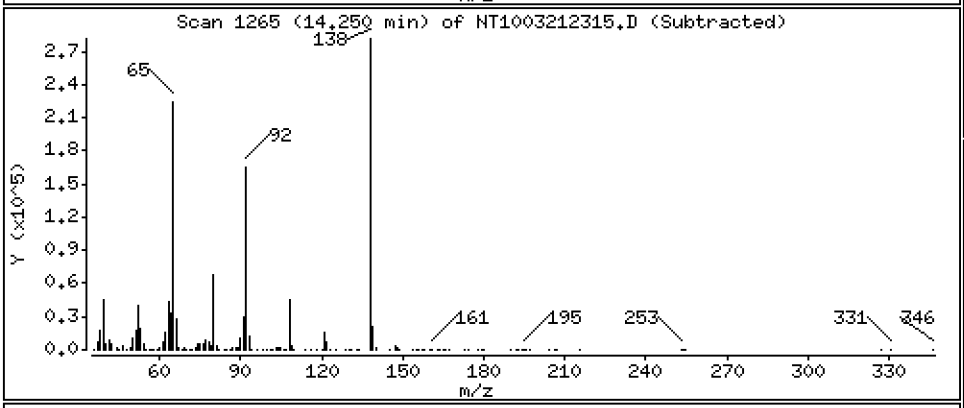
Column phase: ZB-5msi

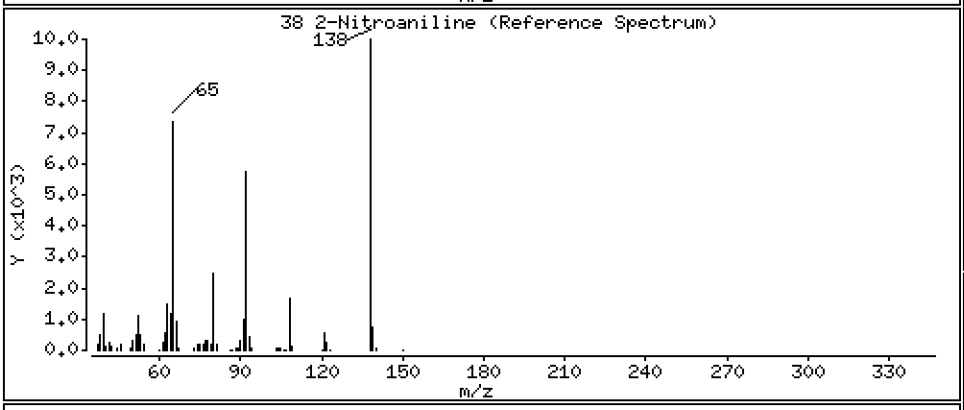
Column diameter: 0.25

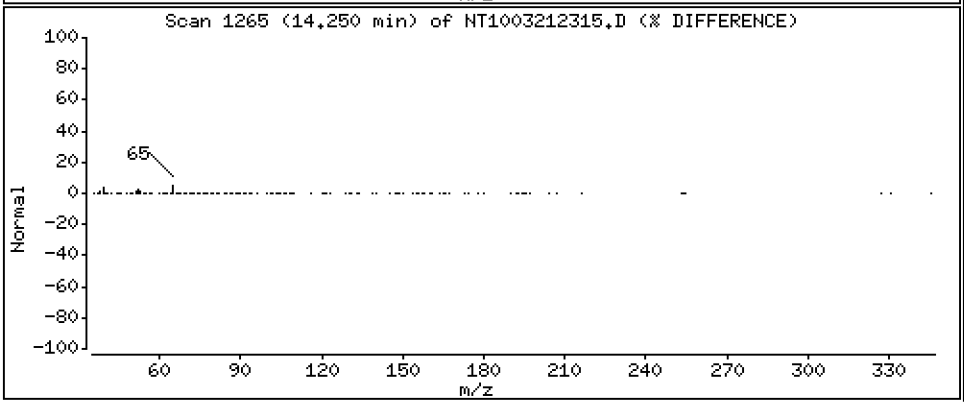
38 2-Nitroaniline

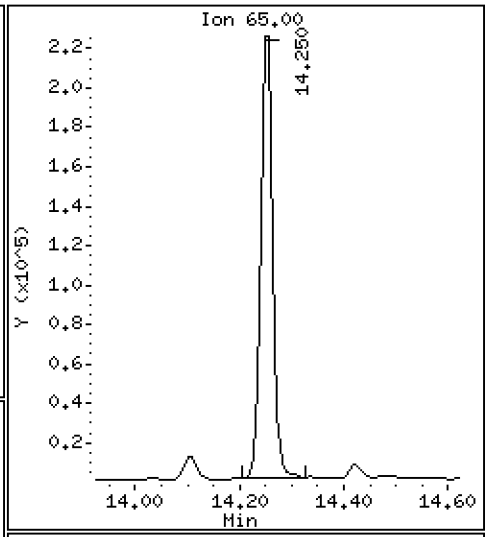
Concentration: 10.34 ug/mL

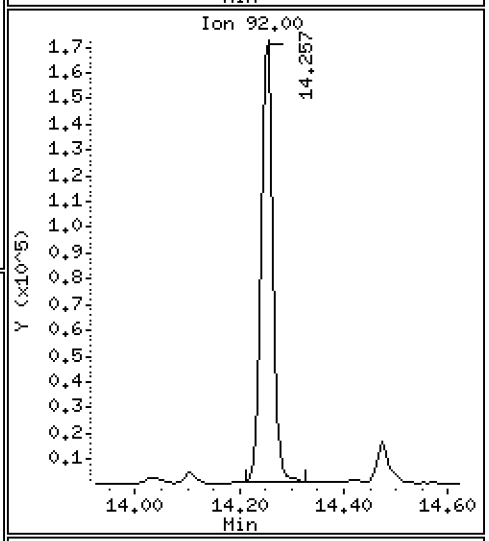


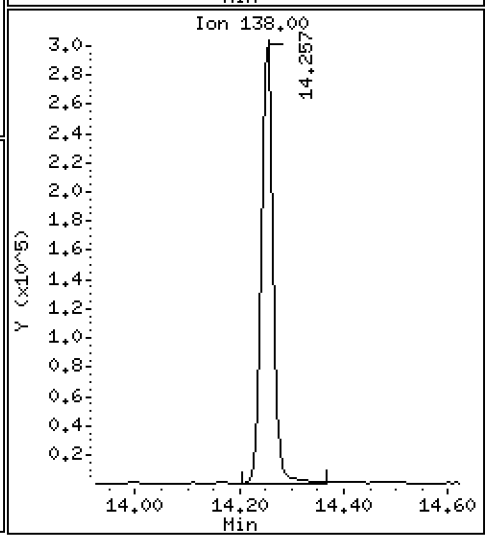












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Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS1

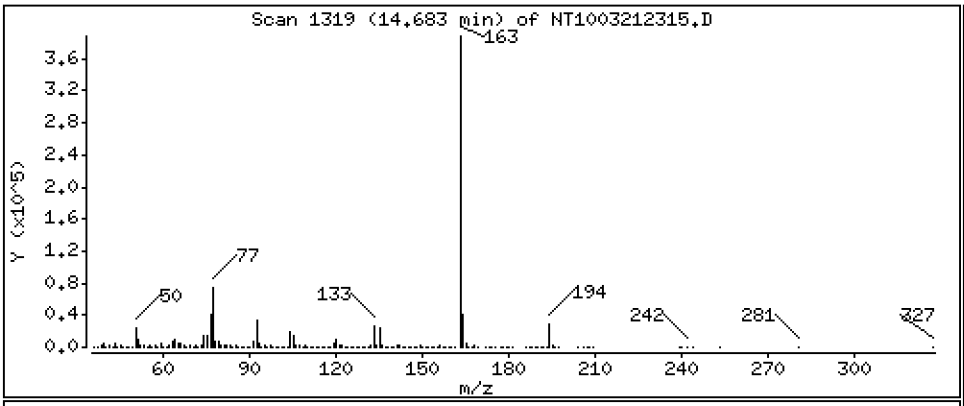
Operator: VTS

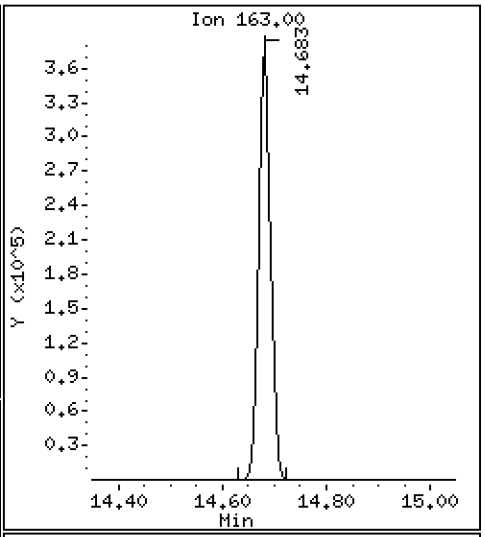
Column phase: ZB-5msi

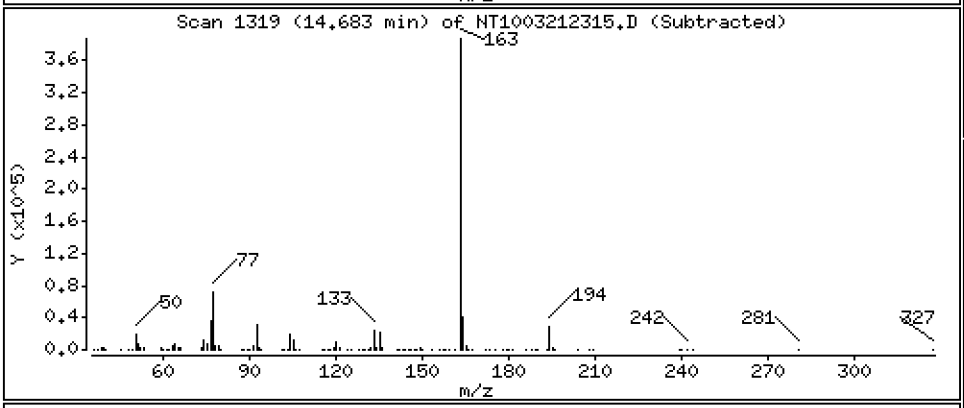
Column diameter: 0.25

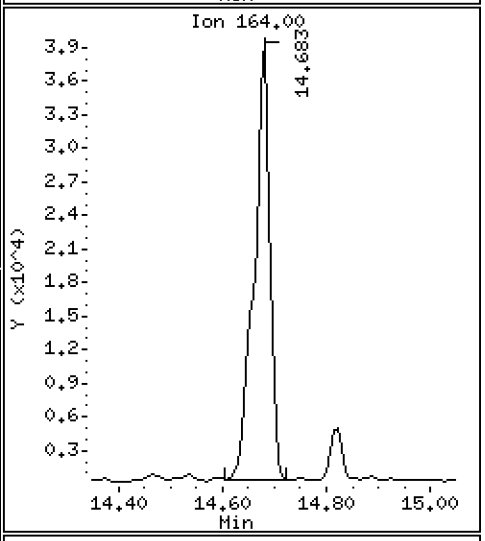
39 Dimethylphthalate

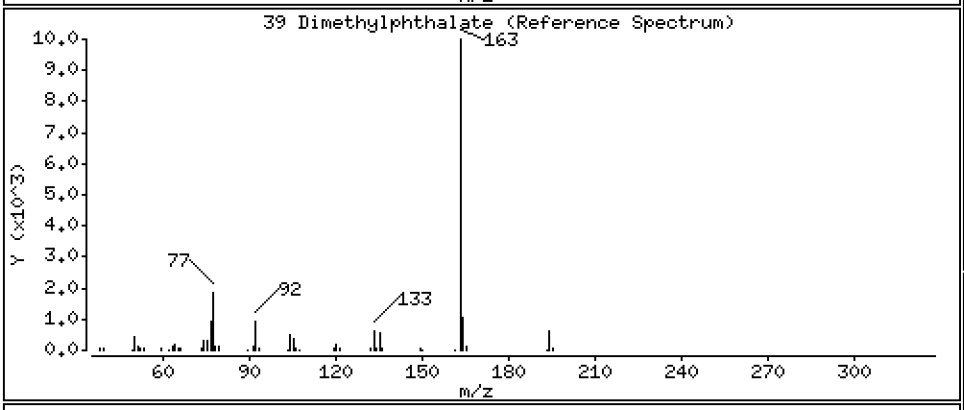
Concentration: 4.489 ug/mL

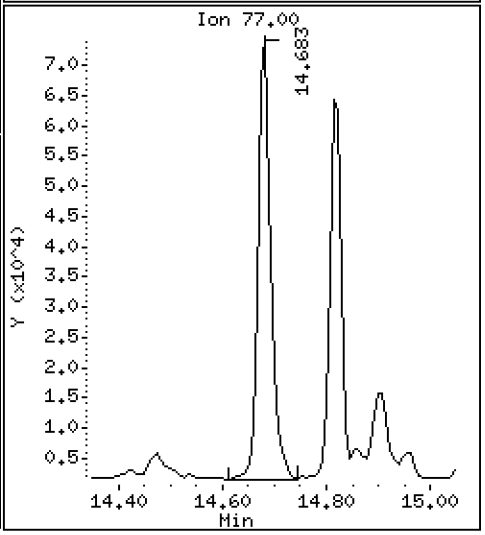


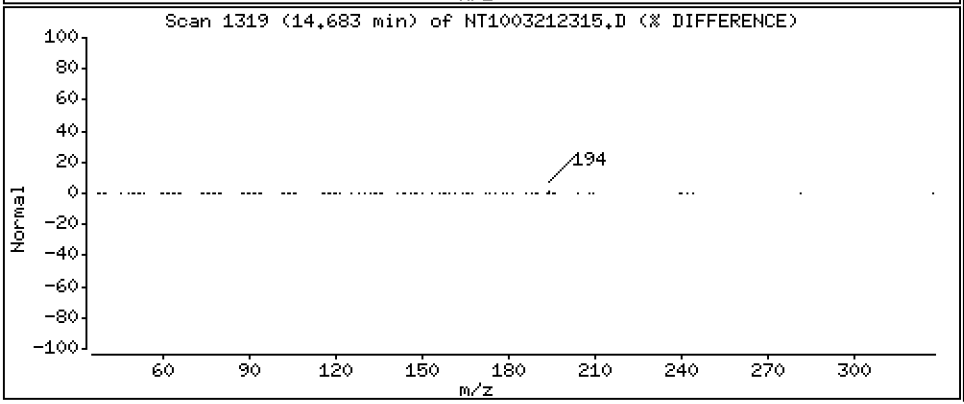












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Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS1

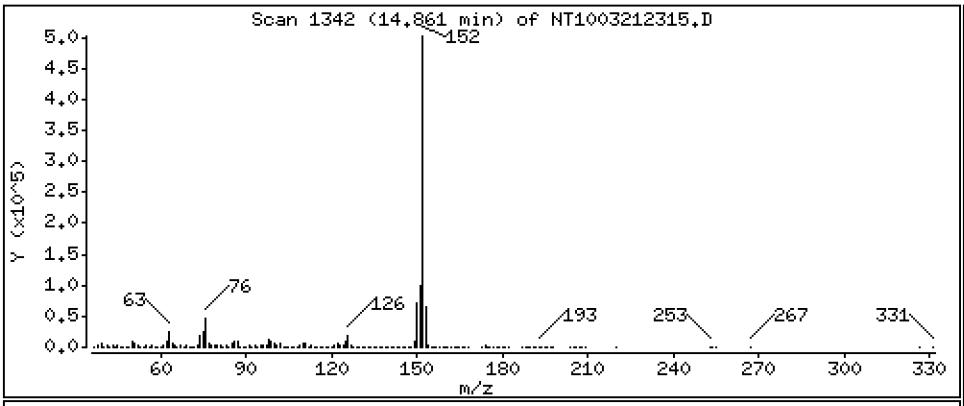
Operator: VTS

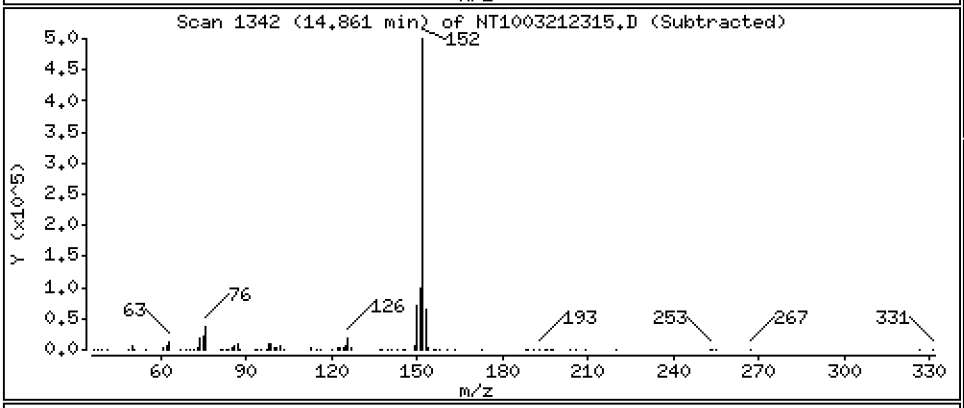
Column phase: ZB-5msi

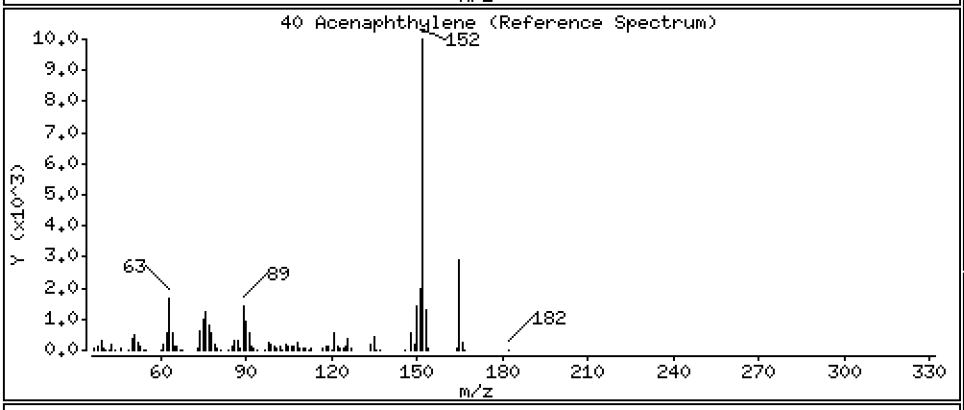
Column diameter: 0.25

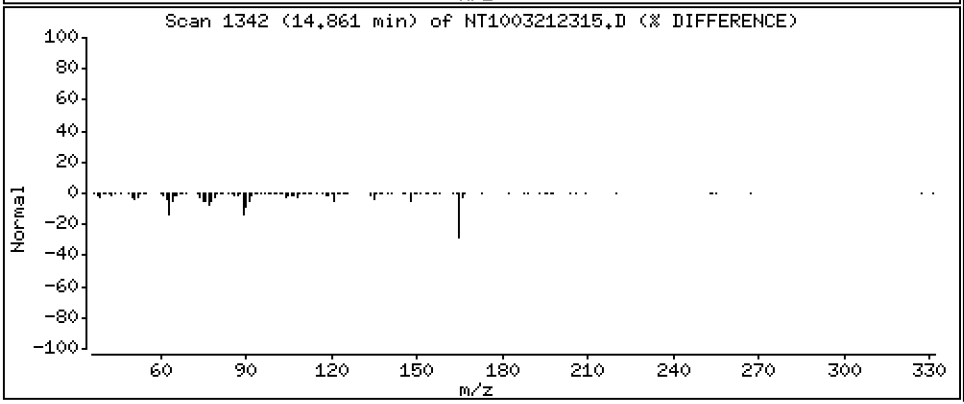
40 Acenaphthylene

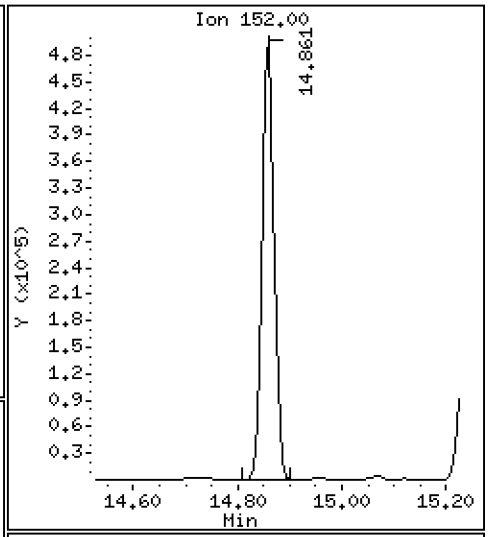
Concentration: 3.900 ug/mL

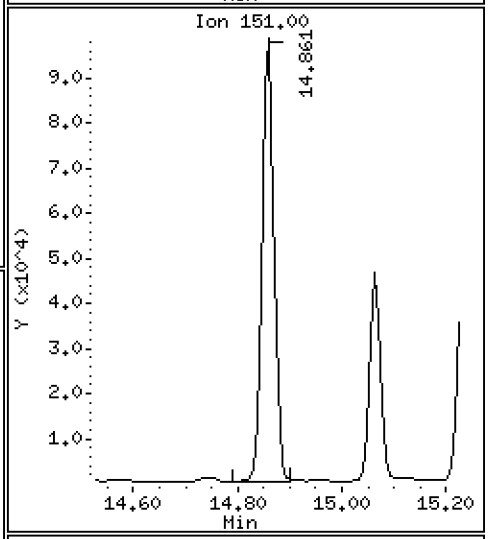


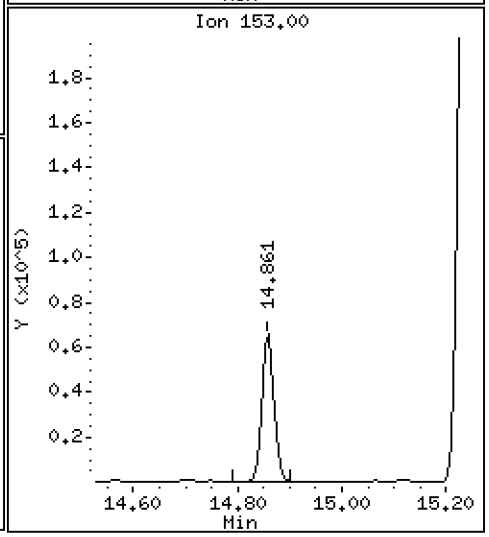












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212315.D

Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS1

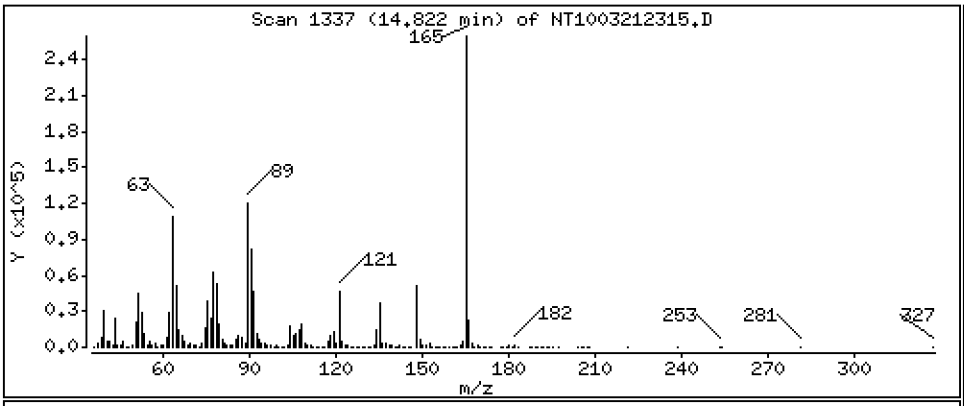
Operator: VTS

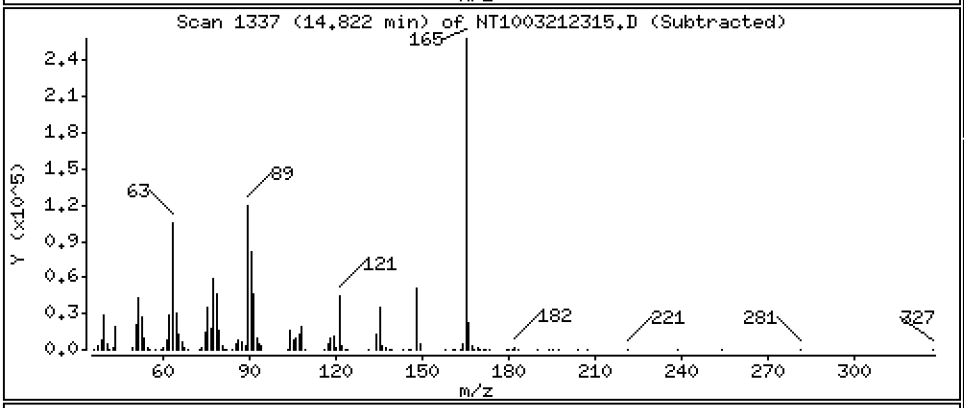
Column phase: ZB-5msi

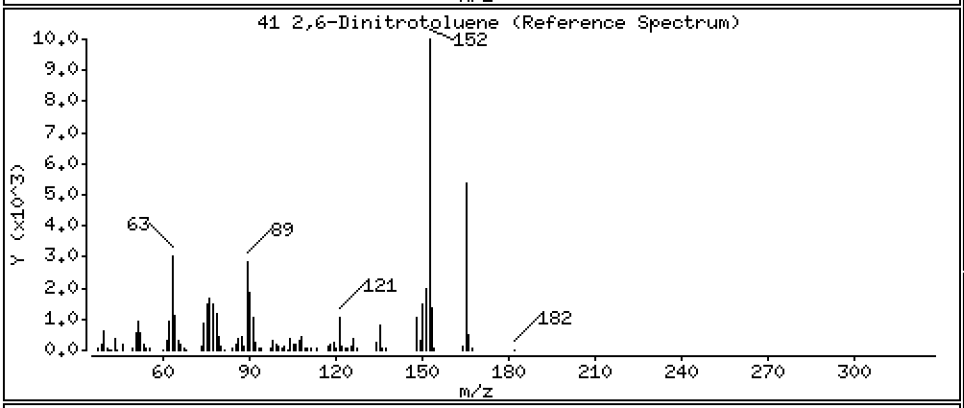
Column diameter: 0.25

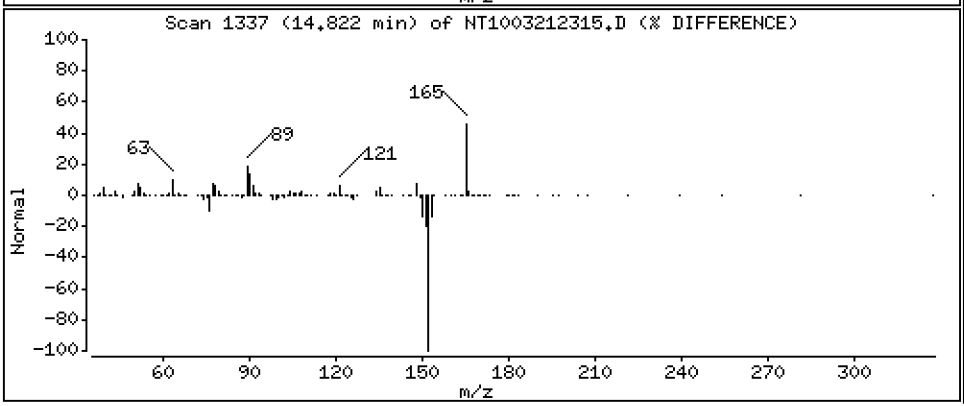
41 2,6-Dinitrotoluene

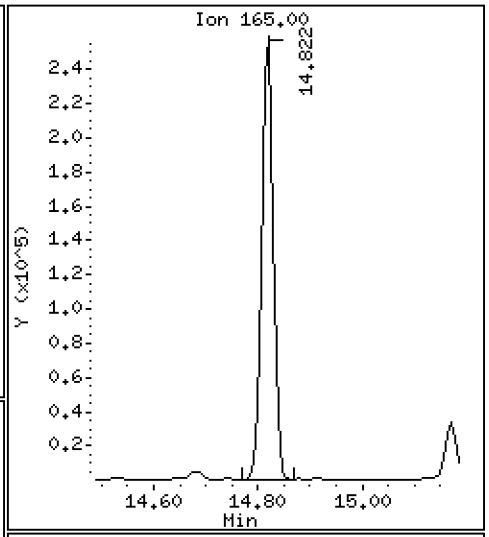
Concentration: 14.05 ug/mL

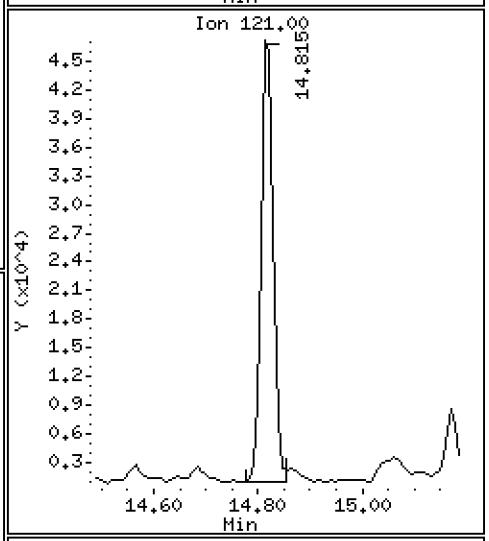


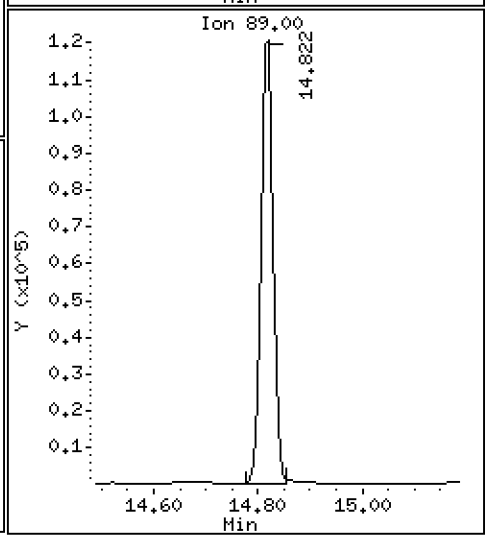












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Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS1

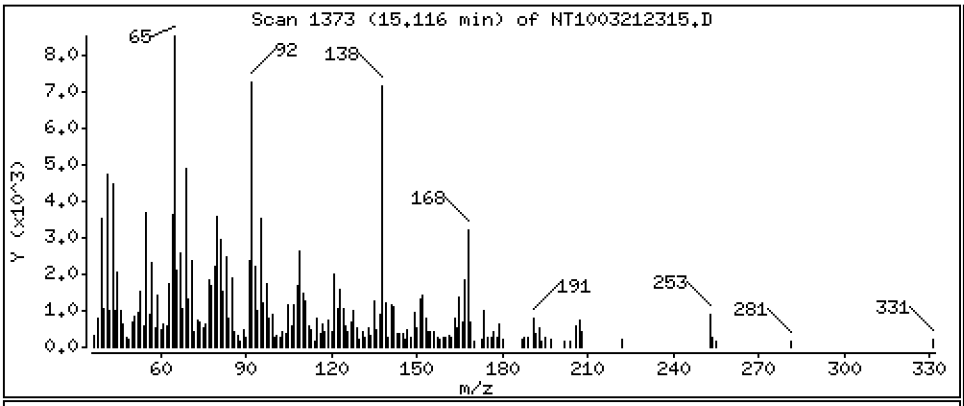
Operator: VTS

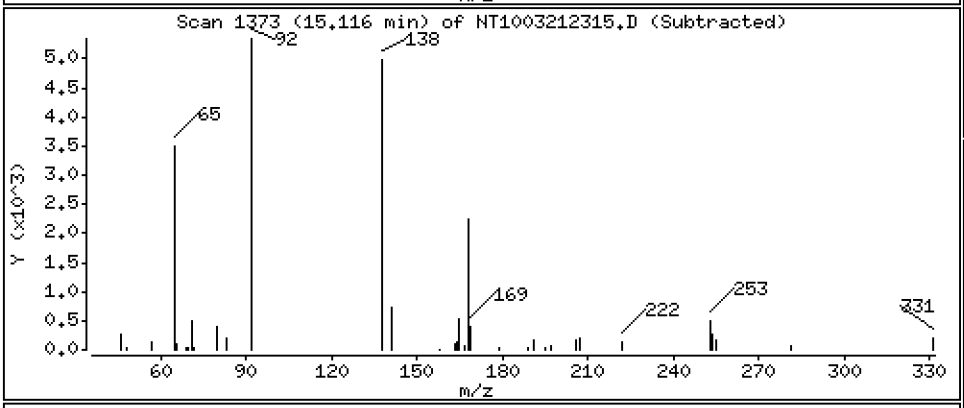
Column phase: ZB-5msi

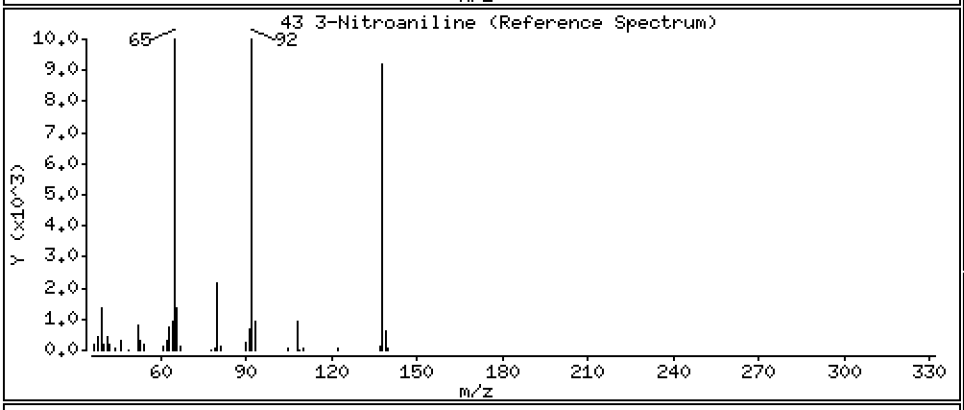
Column diameter: 0.25

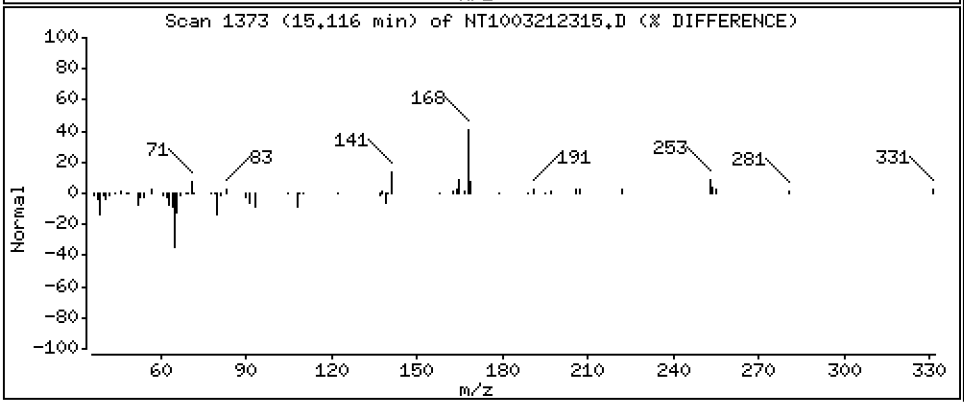
43 3-Nitroaniline

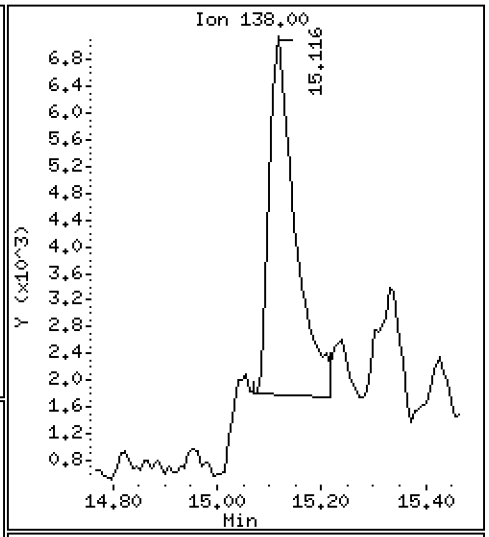
Concentration: 0.5736 ug/mL

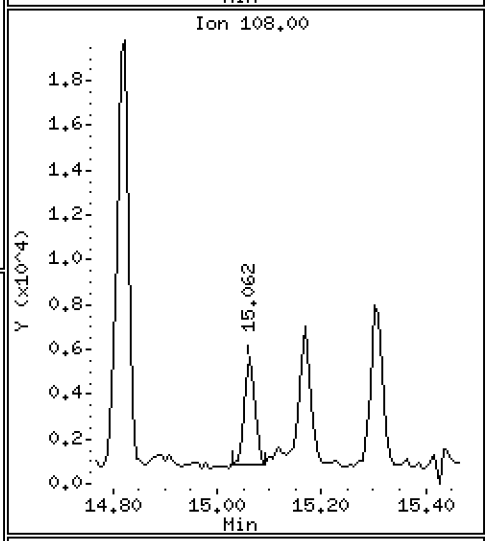


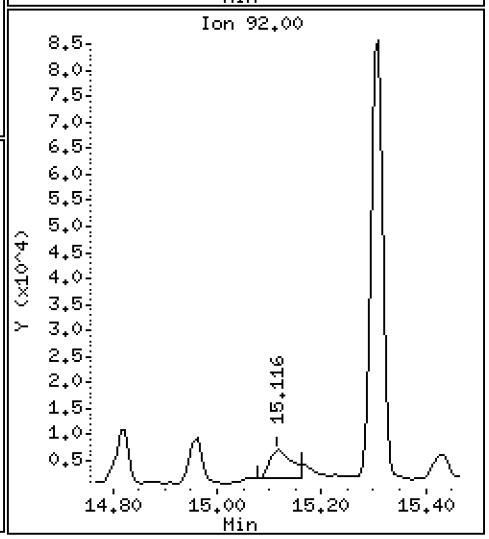












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Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS1

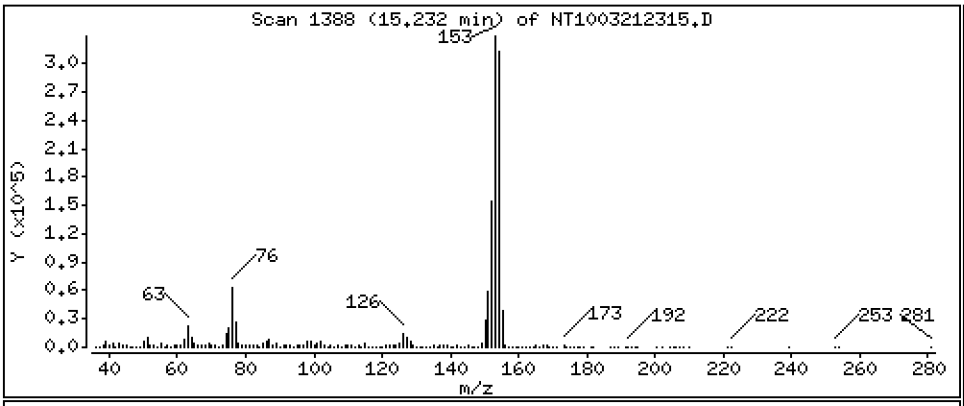
Operator: VTS

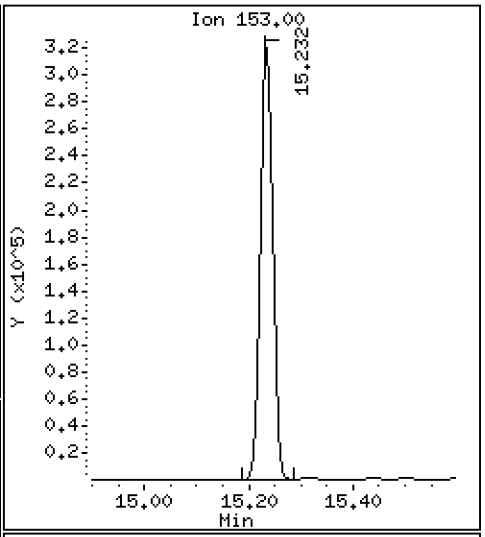
Column phase: ZB-5msi

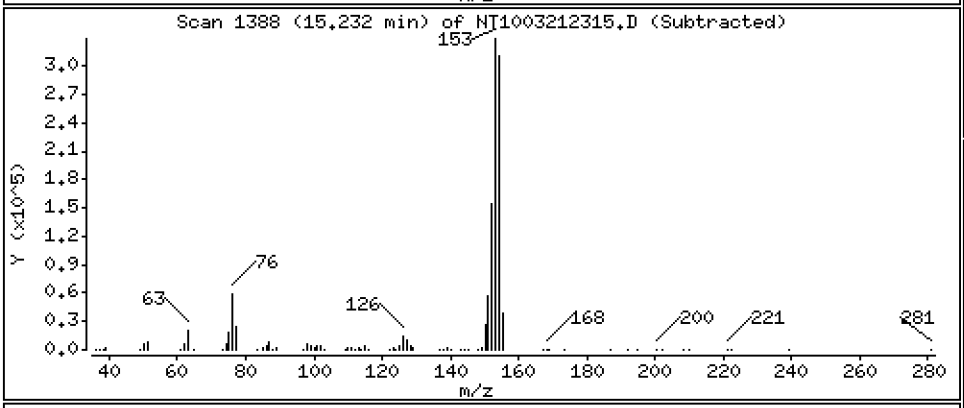
Column diameter: 0.25

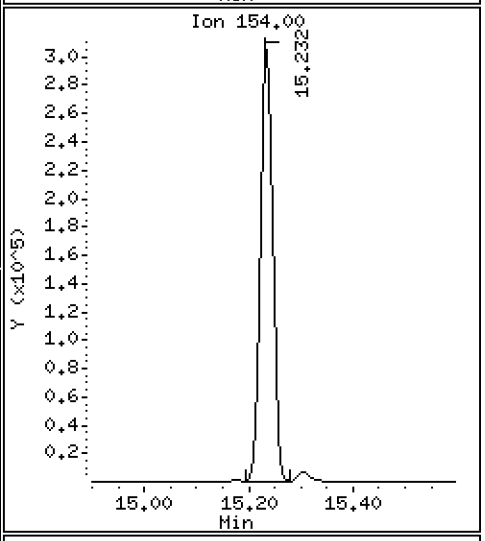
44 Acenaphthene

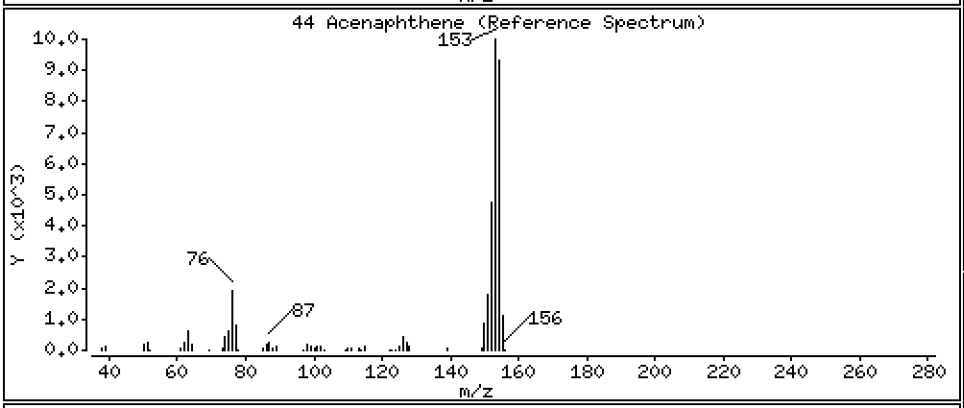
Concentration: 4.125 ug/mL

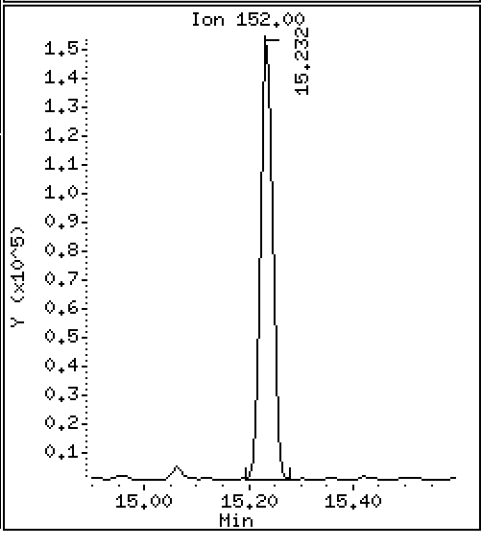


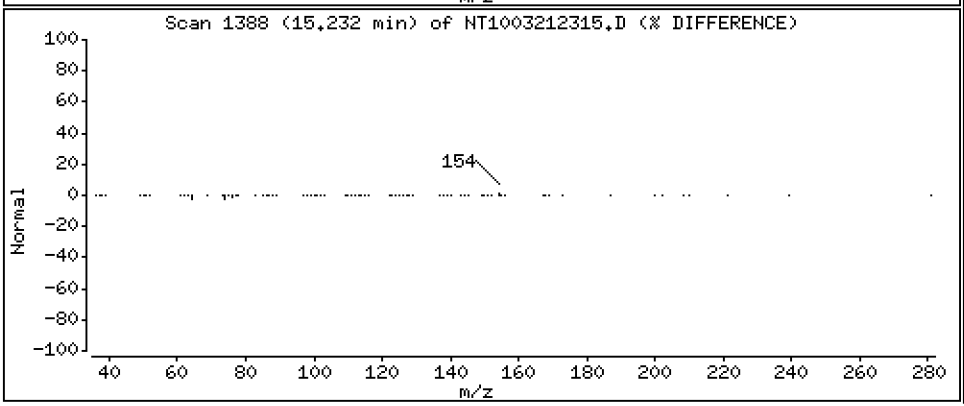












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Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS1

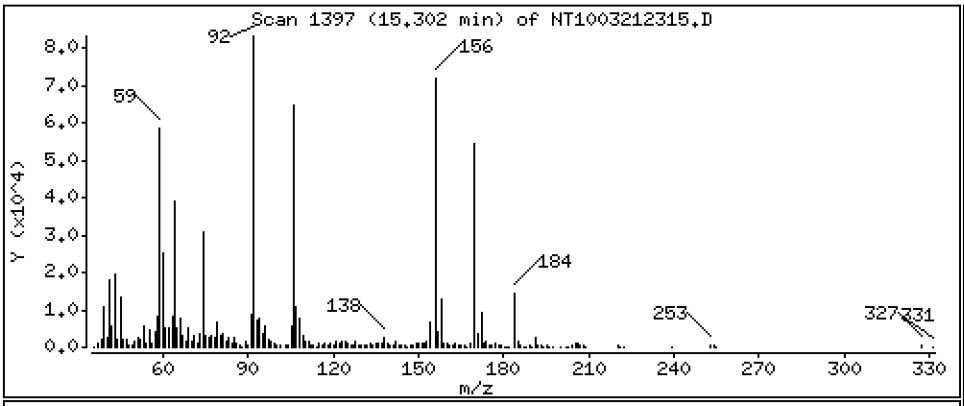
Operator: VTS

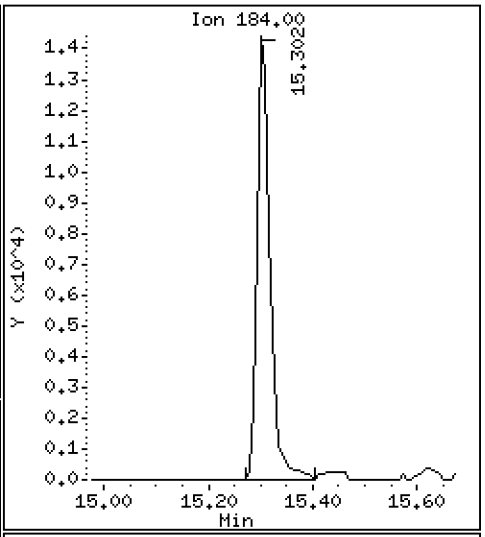
Column phase: ZB-5msi

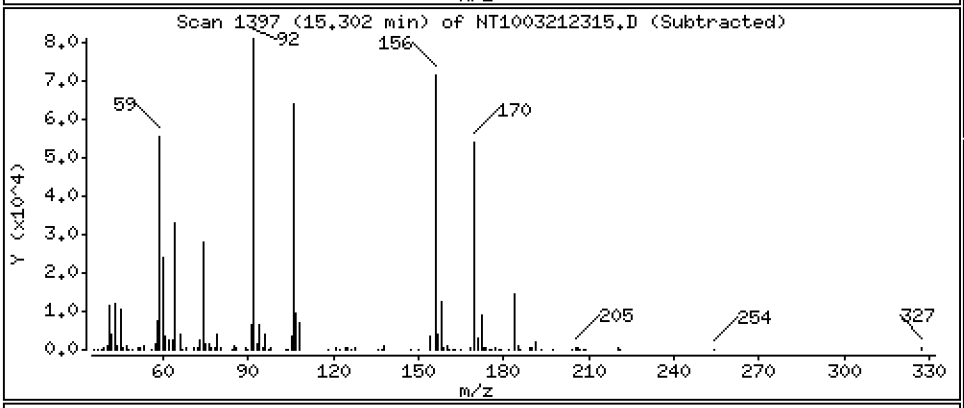
Column diameter: 0.25

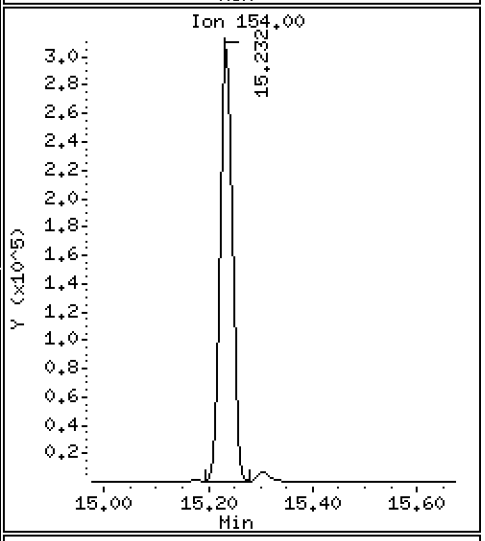
45 2,4-Dinitrophenol

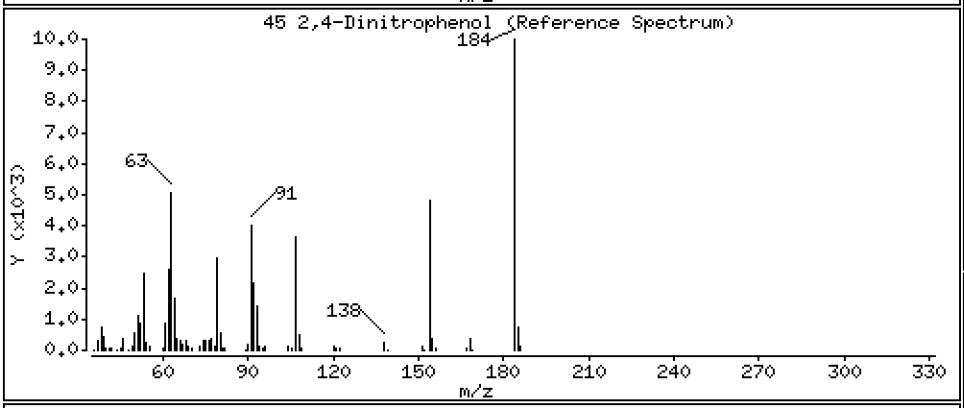
Concentration: 1.455 ug/mL

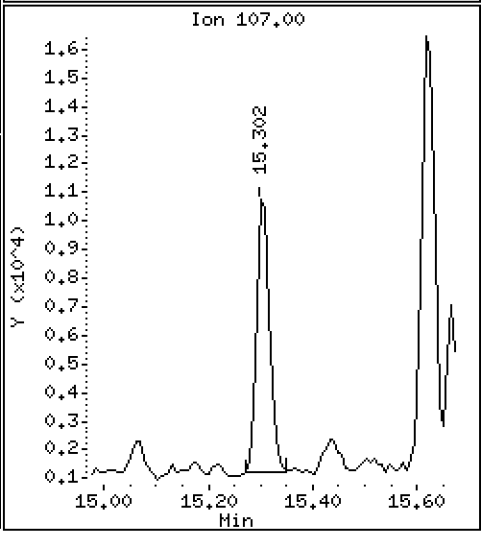


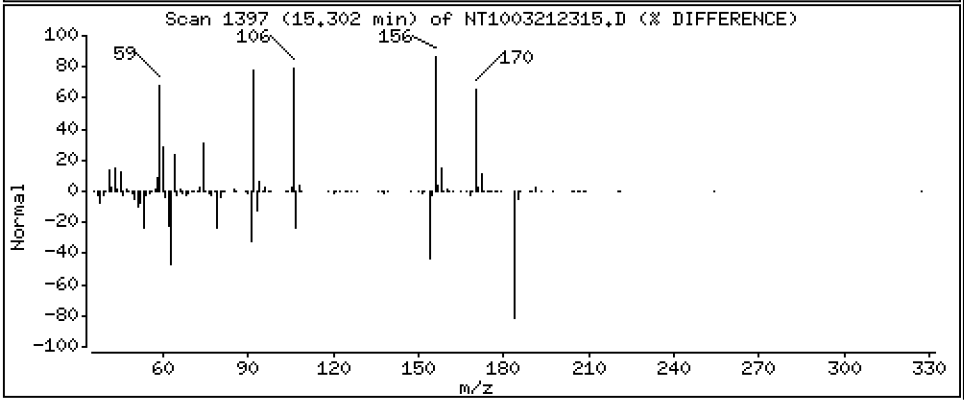












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Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS1

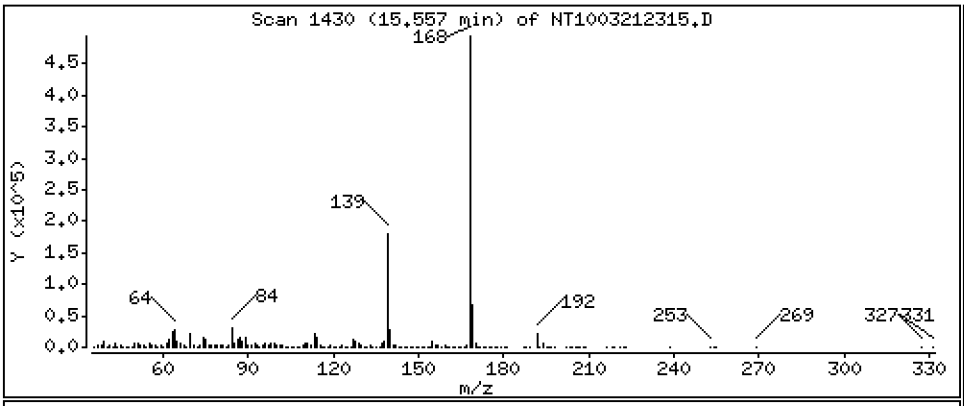
Operator: VTS

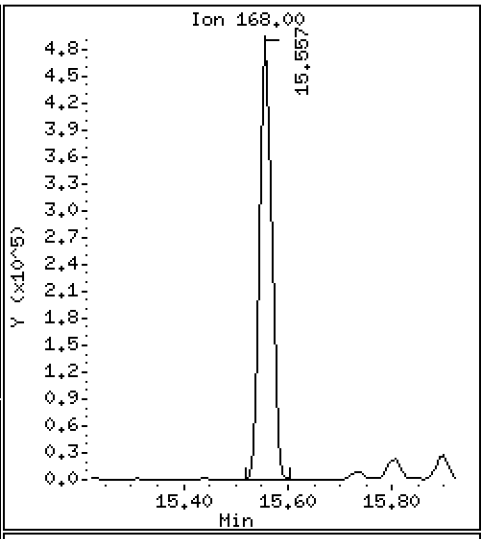
Column phase: ZB-5msi

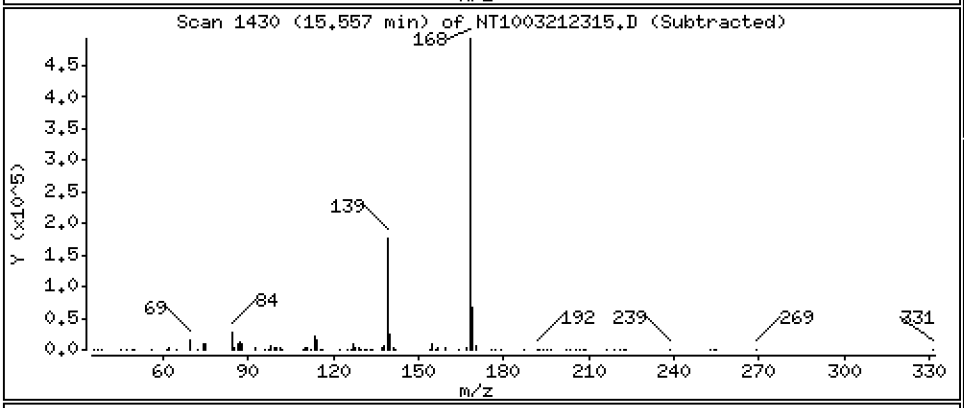
Column diameter: 0.25

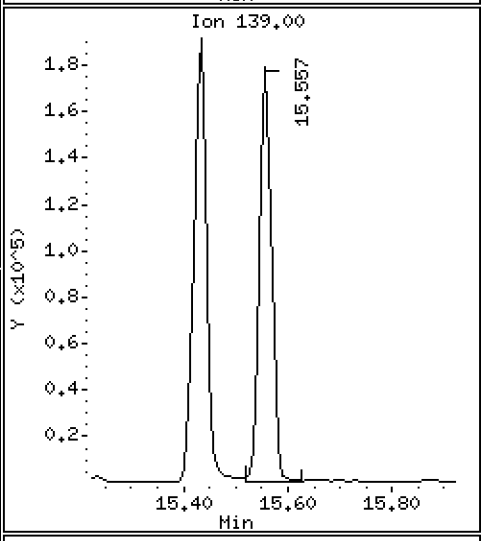
46 Dibenzofuran

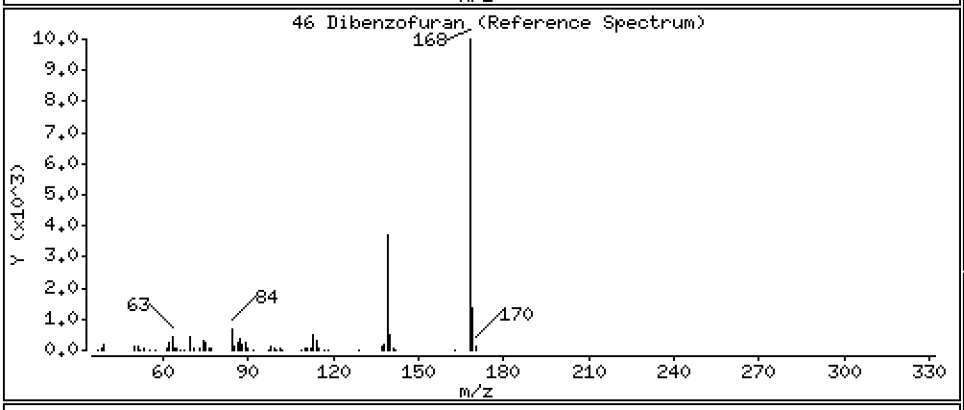
Concentration: 4.230 ug/mL

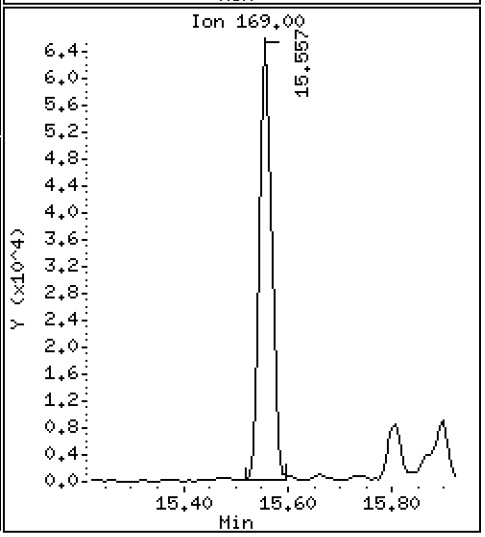


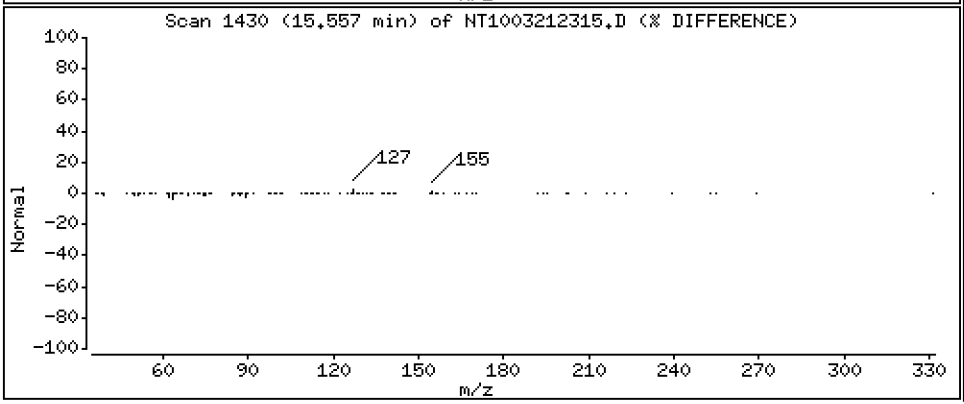












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Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS1

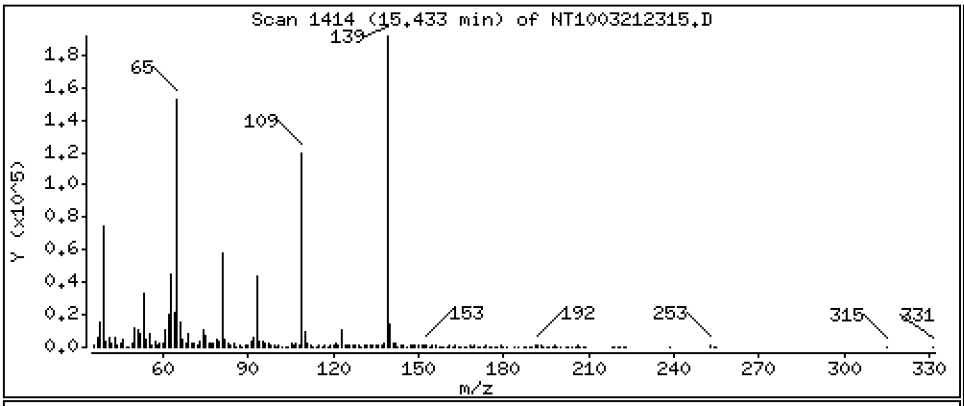
Operator: VTS

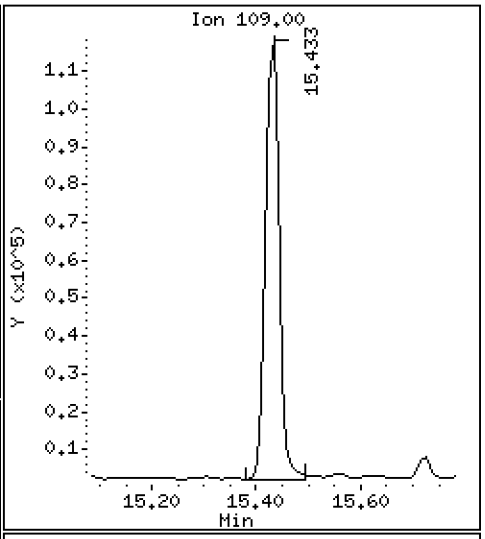
Column phase: ZB-5msi

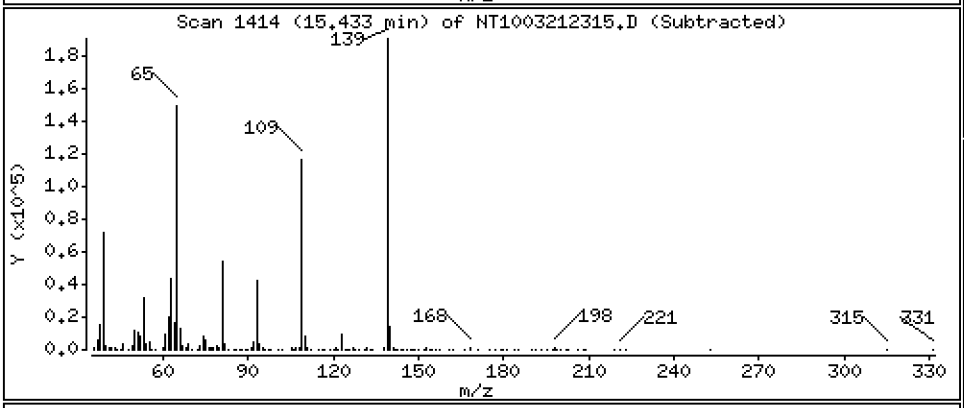
Column diameter: 0.25

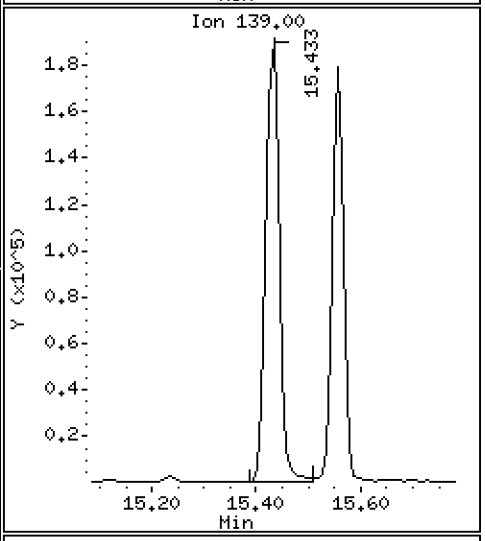
47 4-Nitrophenol

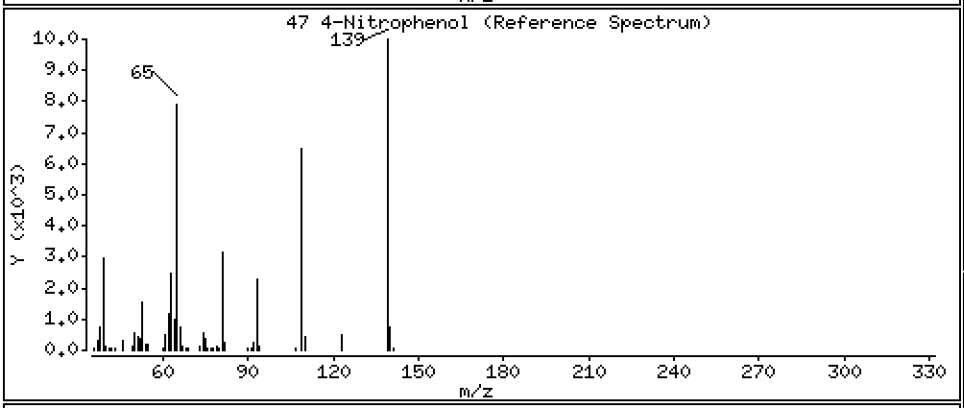
Concentration: 10.18 ug/mL

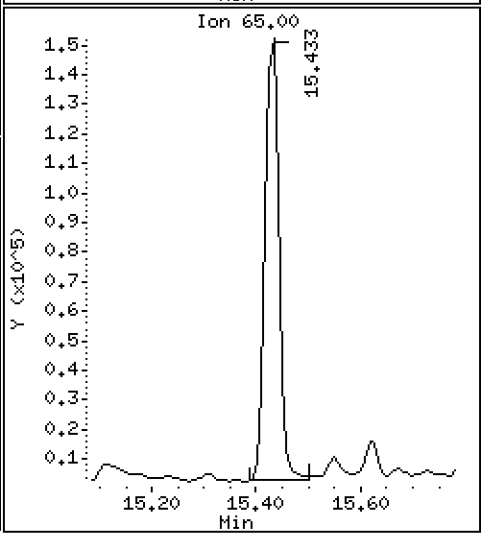


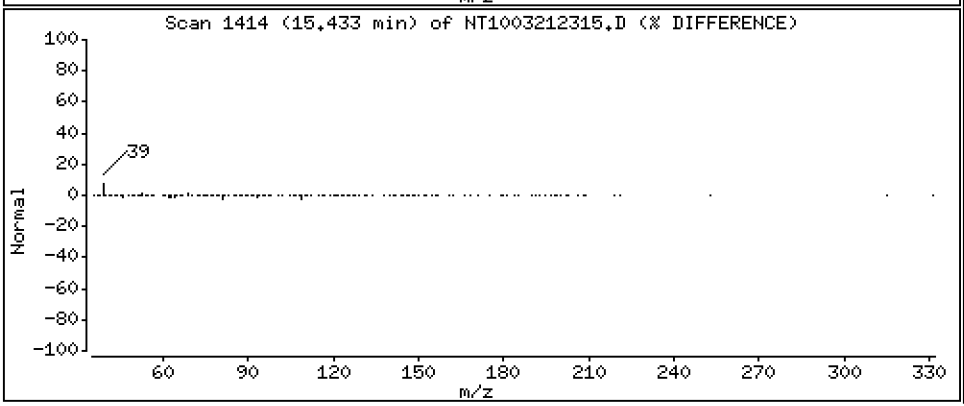












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Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS1

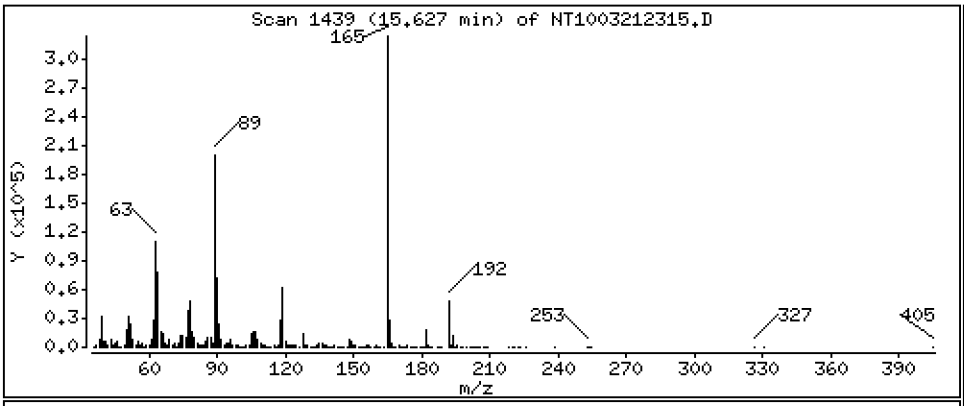
Operator: VTS

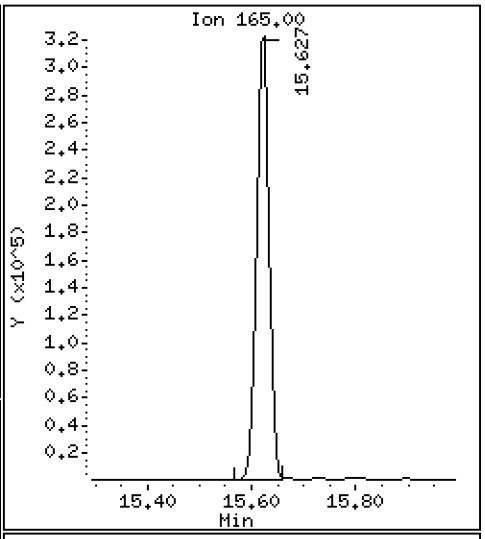
Column phase: ZB-5msi

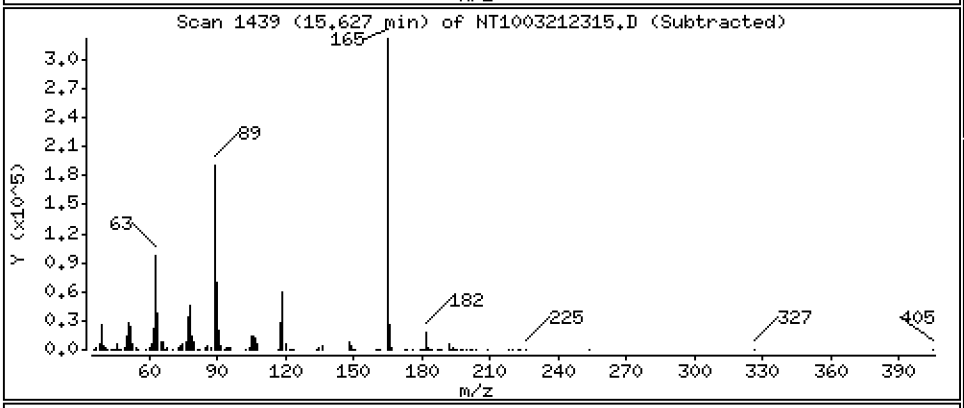
Column diameter: 0.25

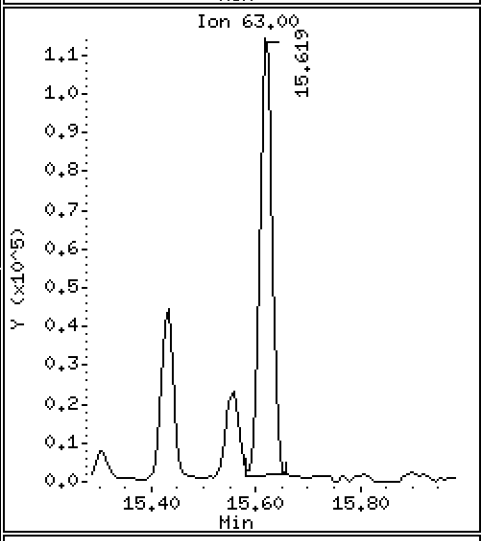
48 2,4-Dinitrotoluene

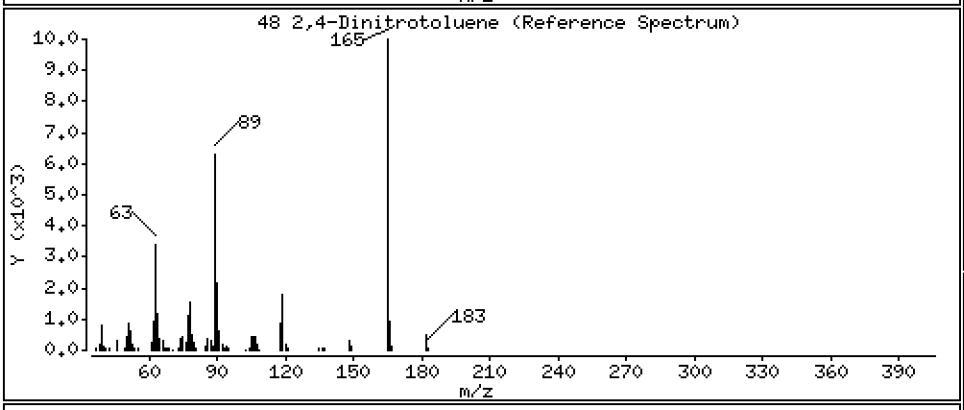
Concentration: 12.91 ug/mL

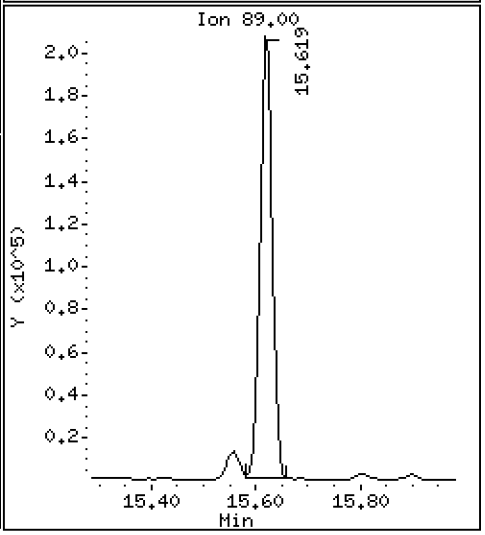


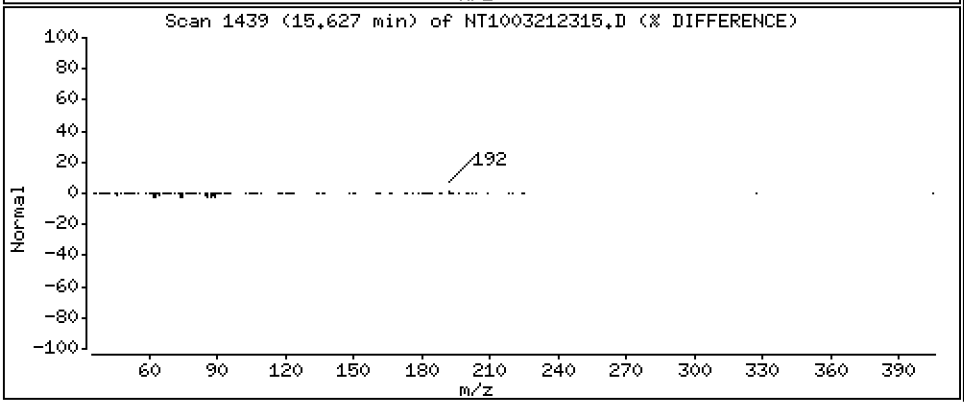












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212315.D

Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS1

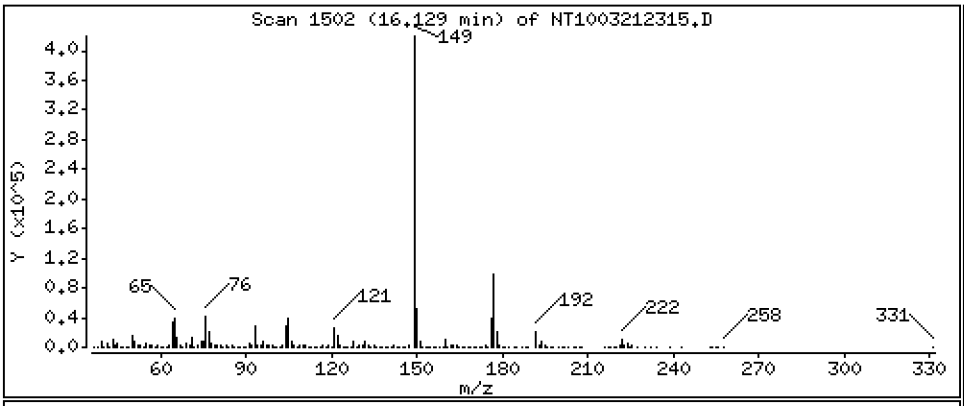
Operator: VTS

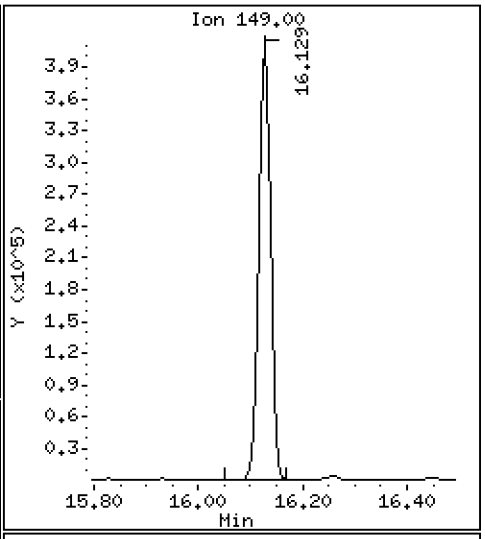
Column phase: ZB-5msi

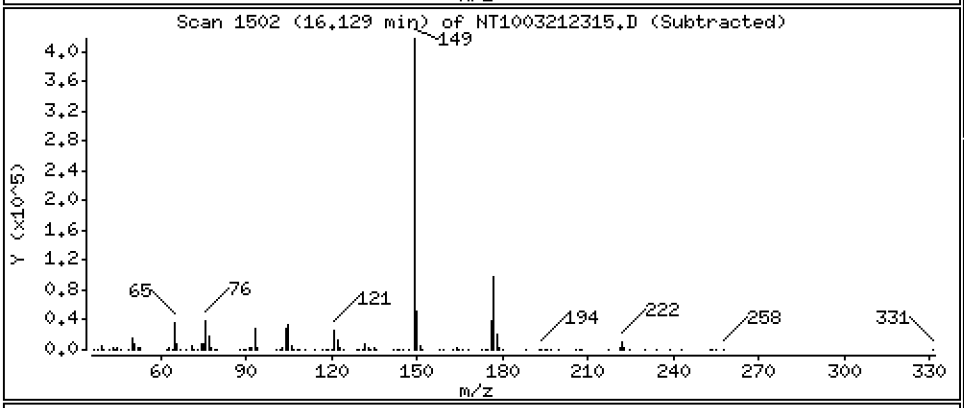
Column diameter: 0.25

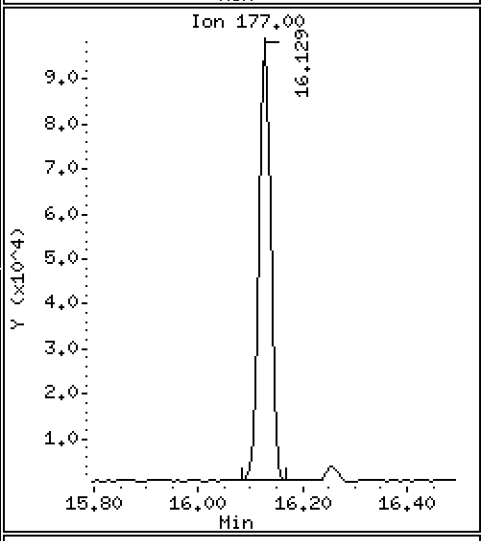
50 Diethylphthalate

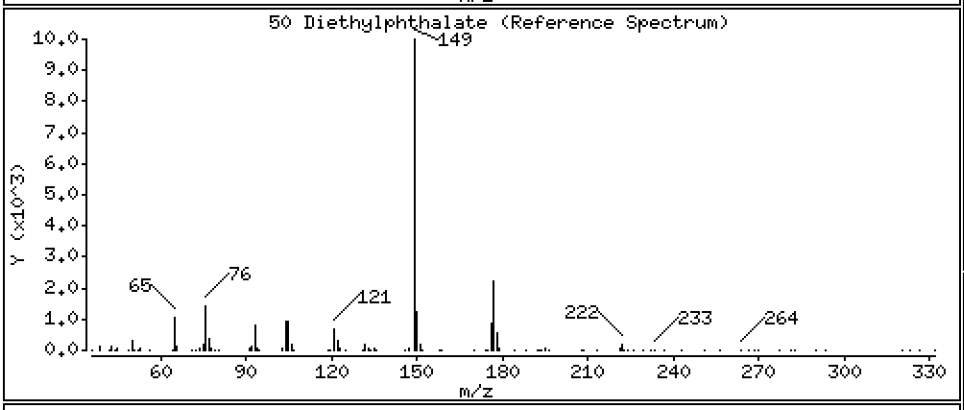
Concentration: 4.770 ug/mL

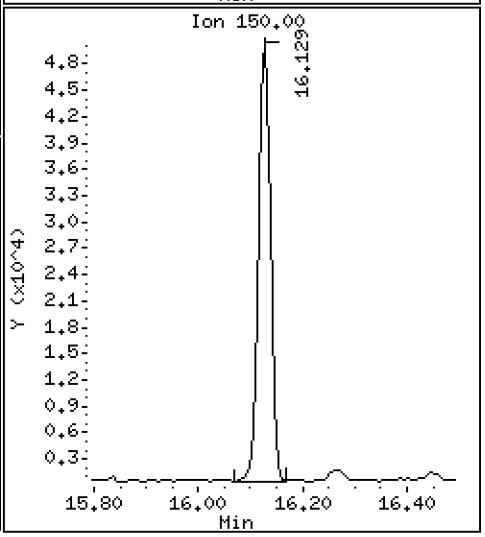


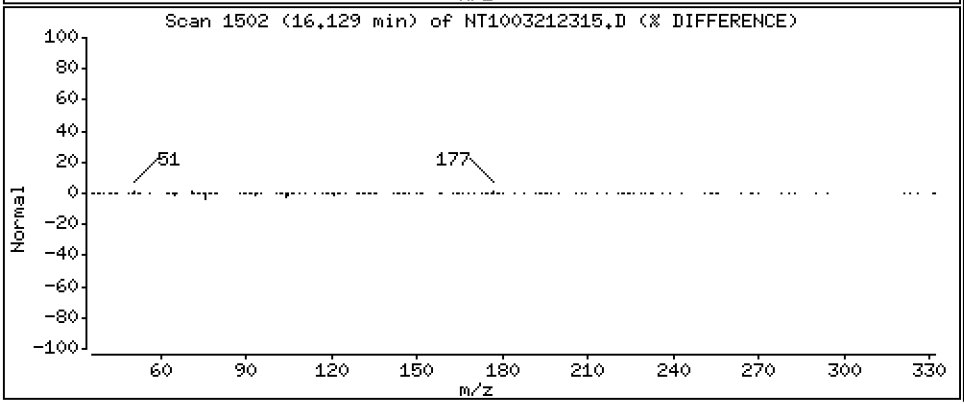












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Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS1

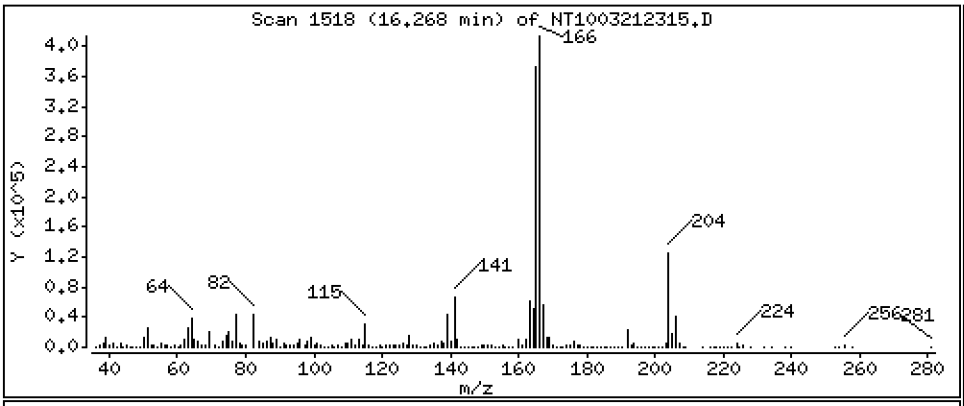
Operator: VTS

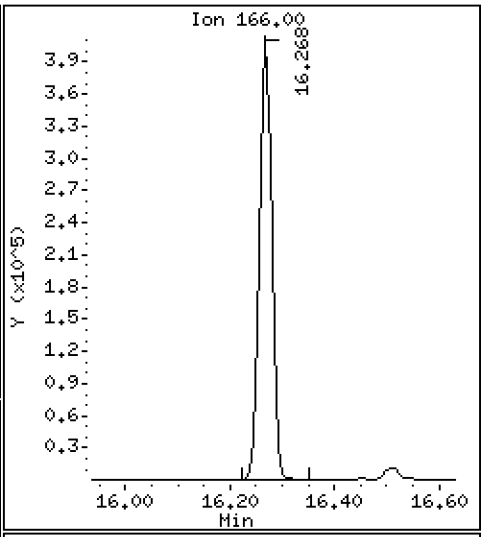
Column phase: ZB-5msi

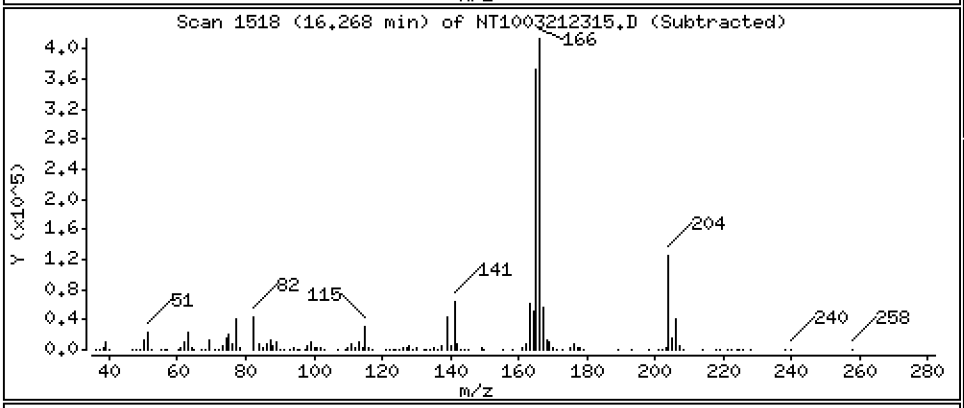
Column diameter: 0.25

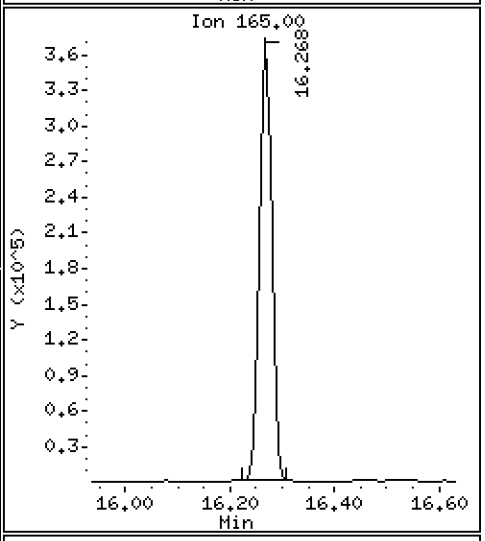
49 Fluorene

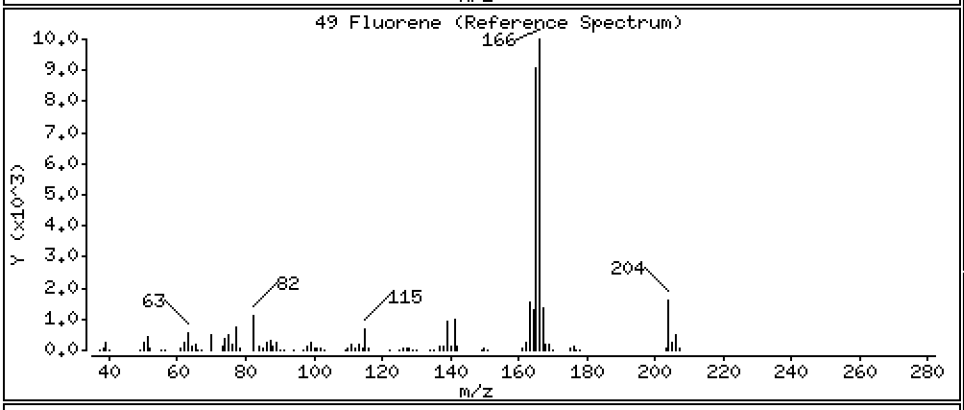
Concentration: 4.405 ug/mL

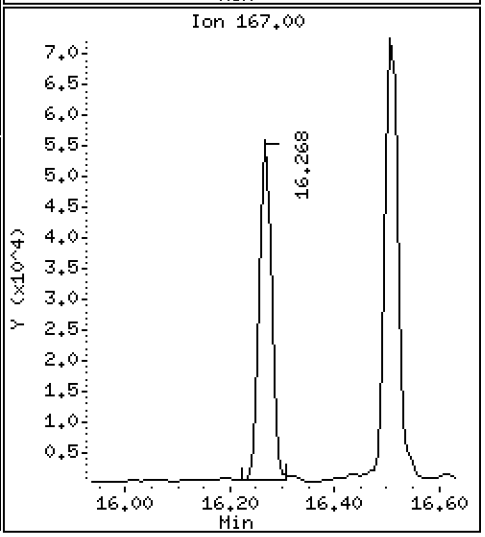


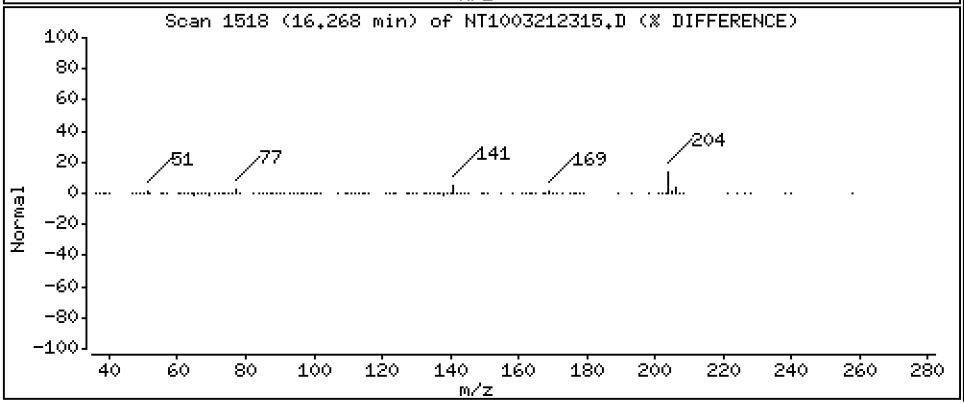












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Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS1

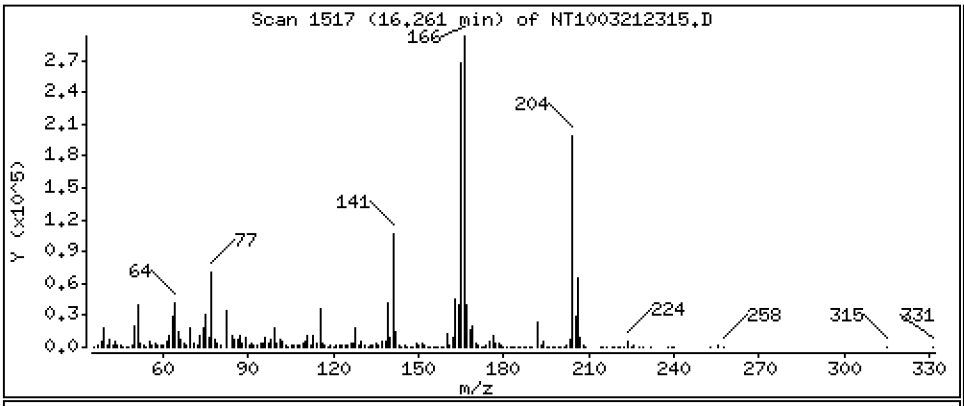
Operator: VTS

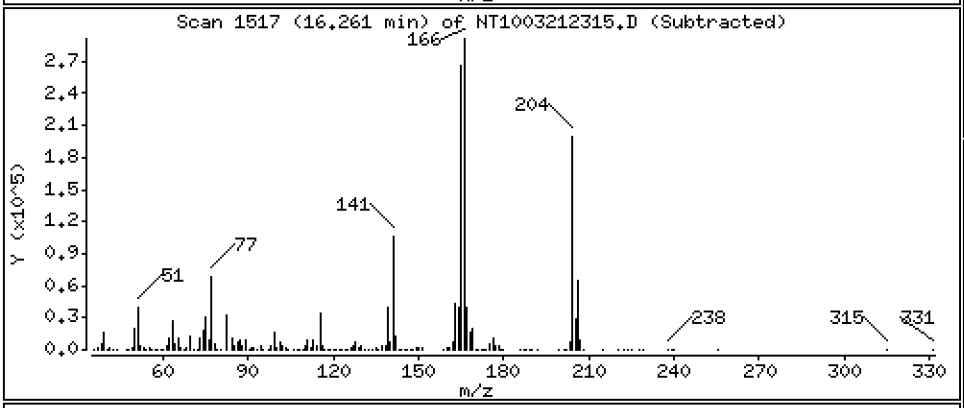
Column phase: ZB-5msi

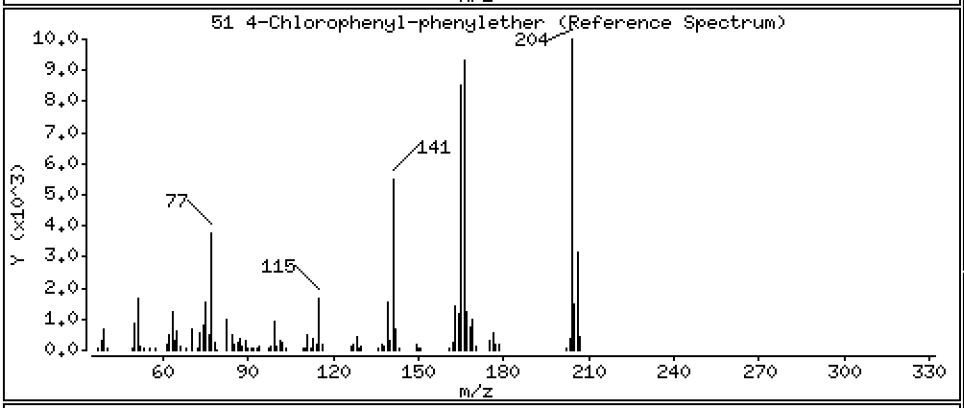
Column diameter: 0.25

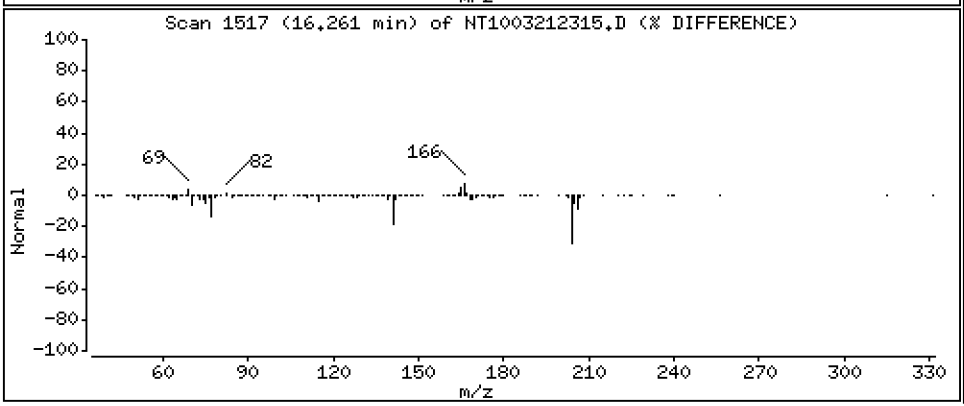
51 4-Chlorophenyl-phenylether

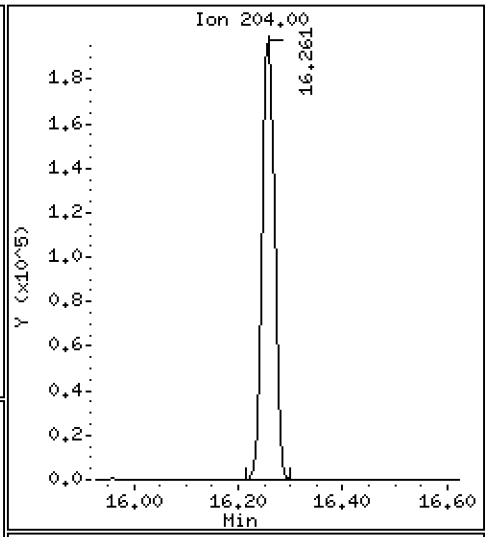
Concentration: 4.548 ug/mL

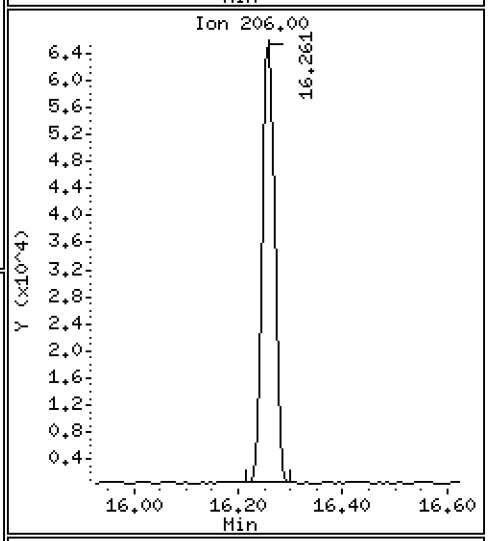


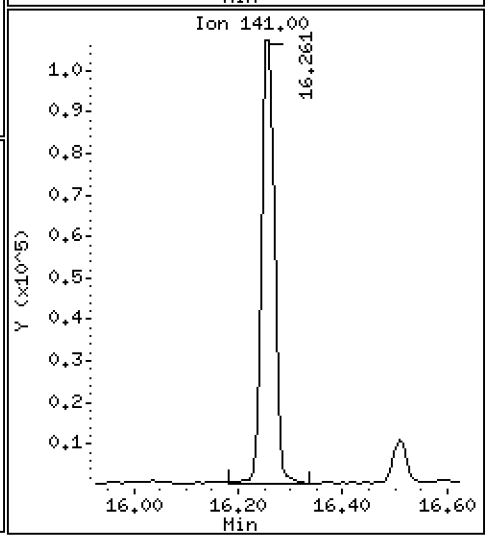












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Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS1

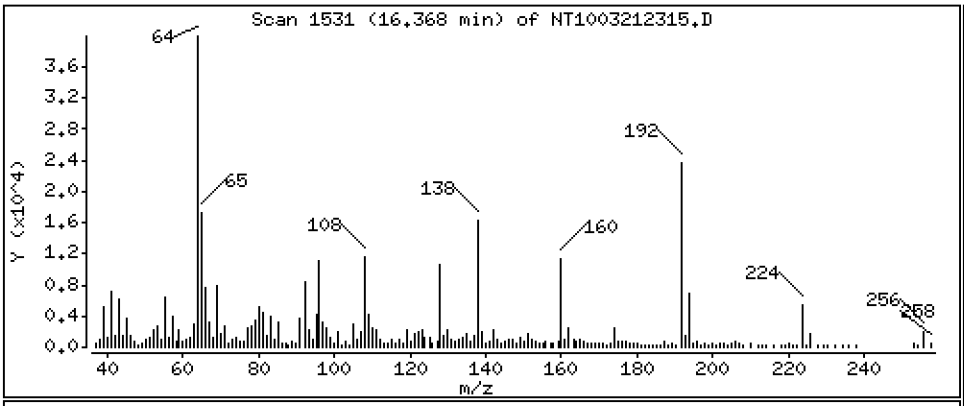
Operator: VTS

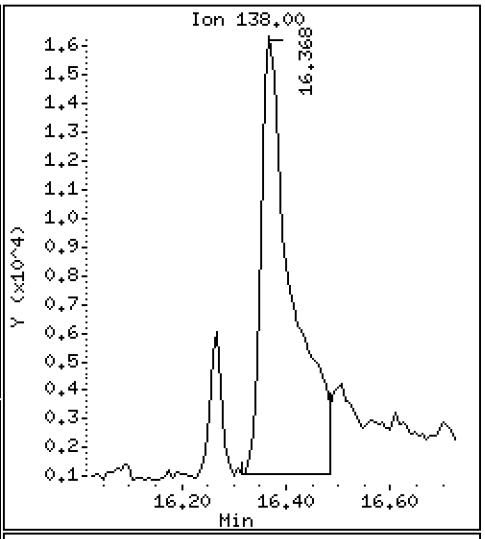
Column phase: ZB-5msi

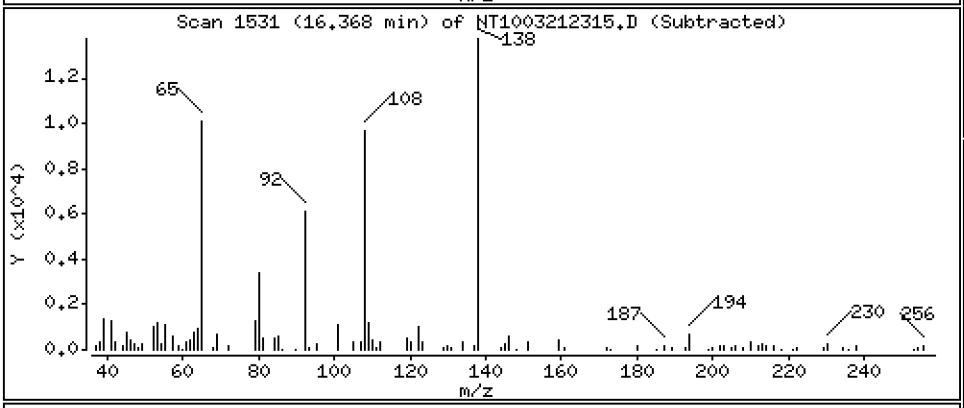
Column diameter: 0.25

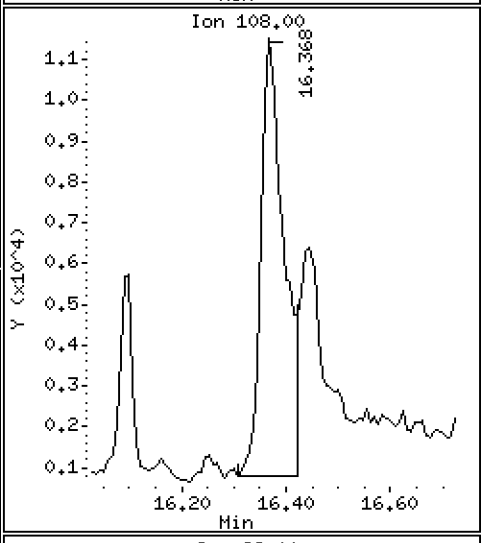
52 4-Nitroaniline

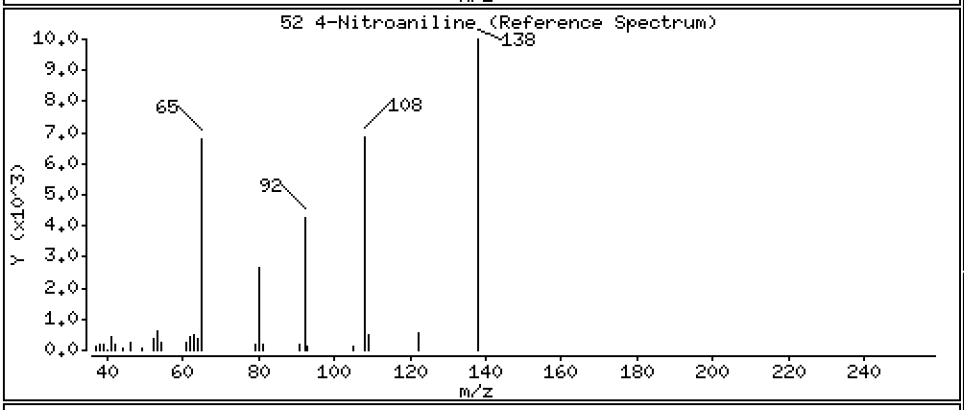
Concentration: 2.141 ug/mL

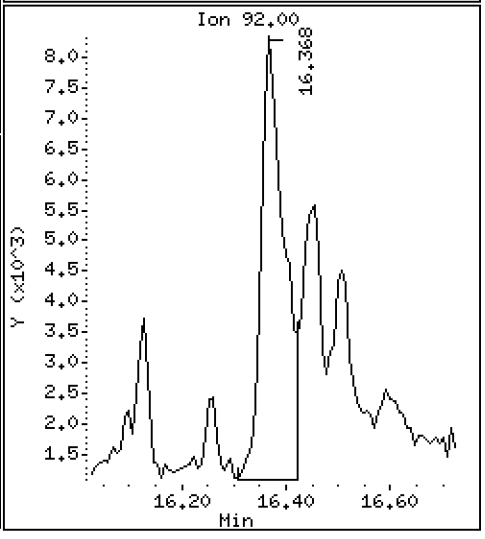


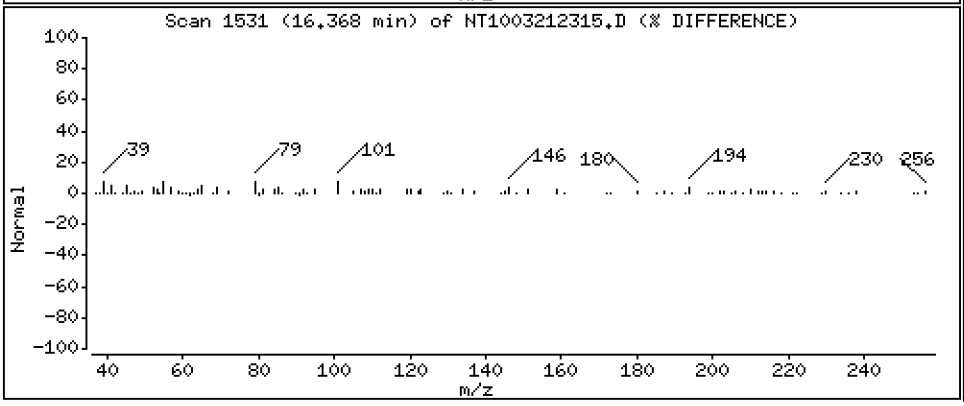












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Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS1

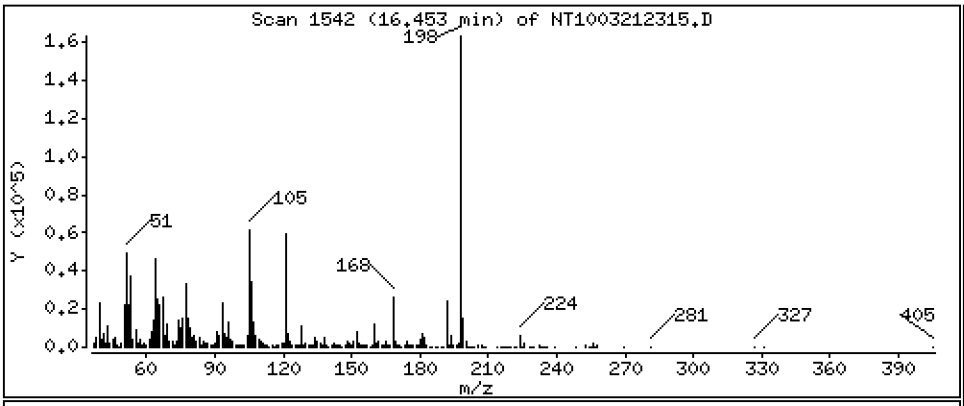
Operator: VTS

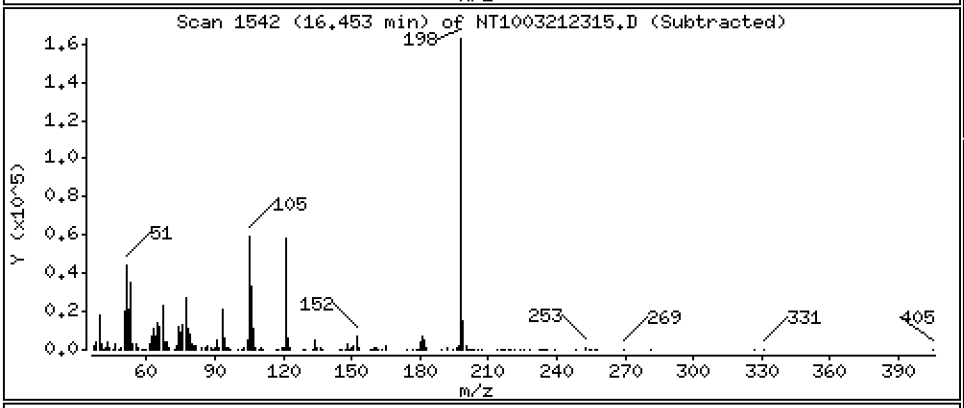
Column phase: ZB-5msi

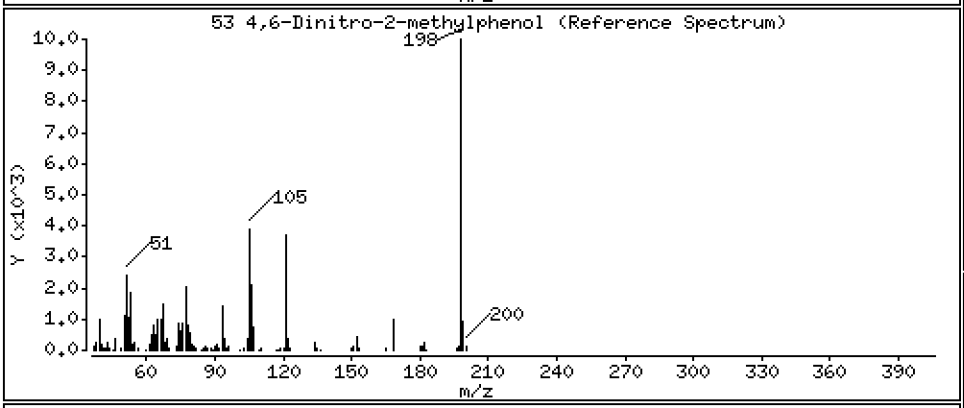
Column diameter: 0.25

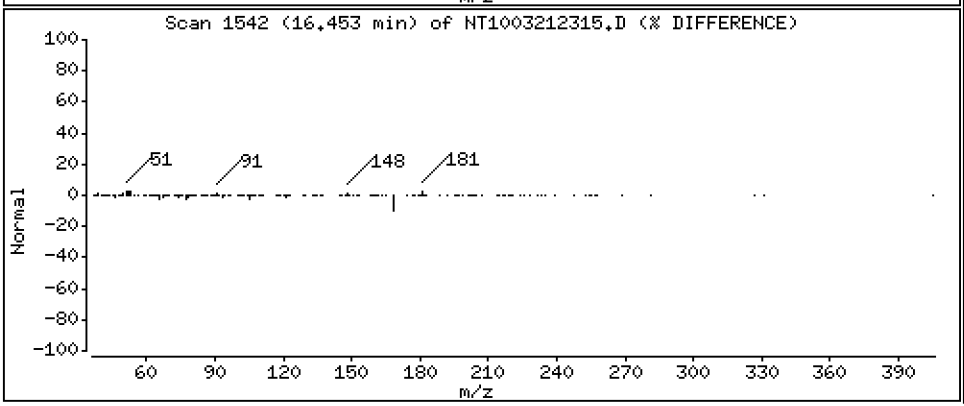
53 4,6-Dinitro-2-methylphenol

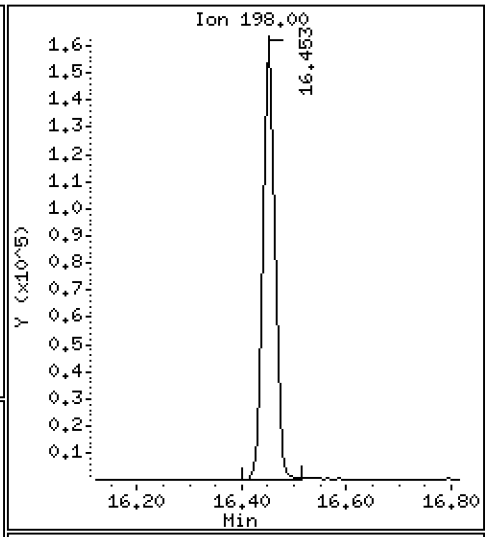
Concentration: 10.84 ug/mL

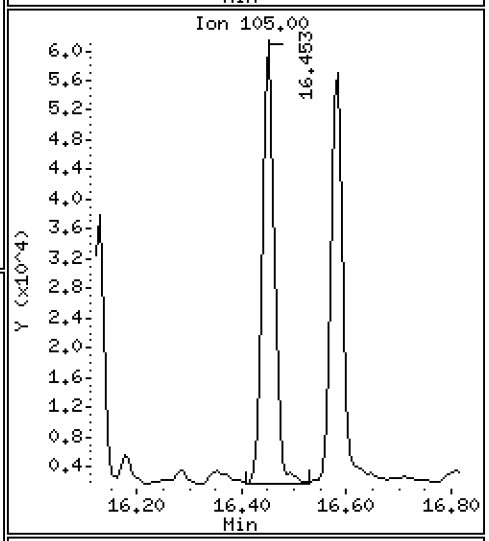


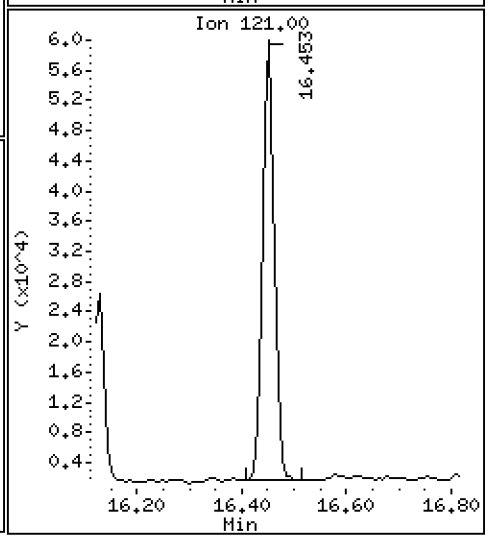












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Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS1

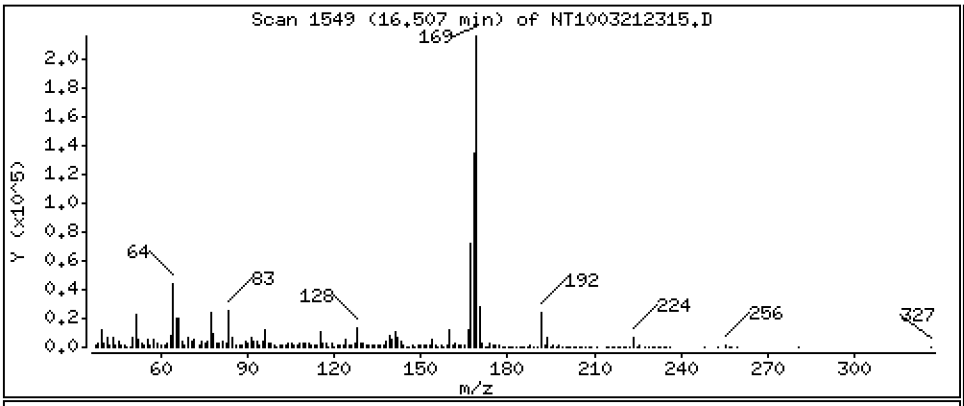
Operator: VTS

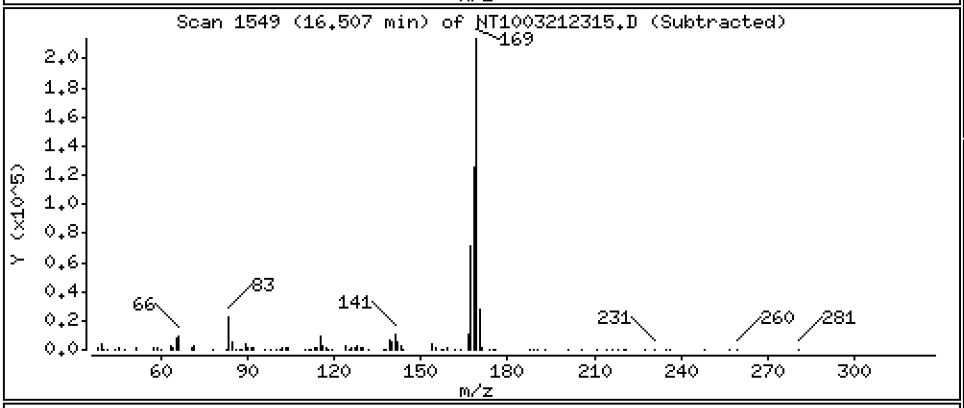
Column phase: ZB-5msi

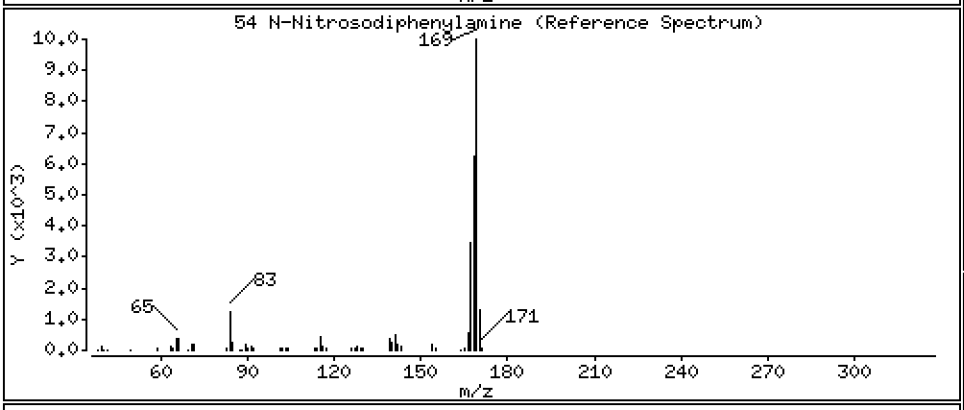
Column diameter: 0.25

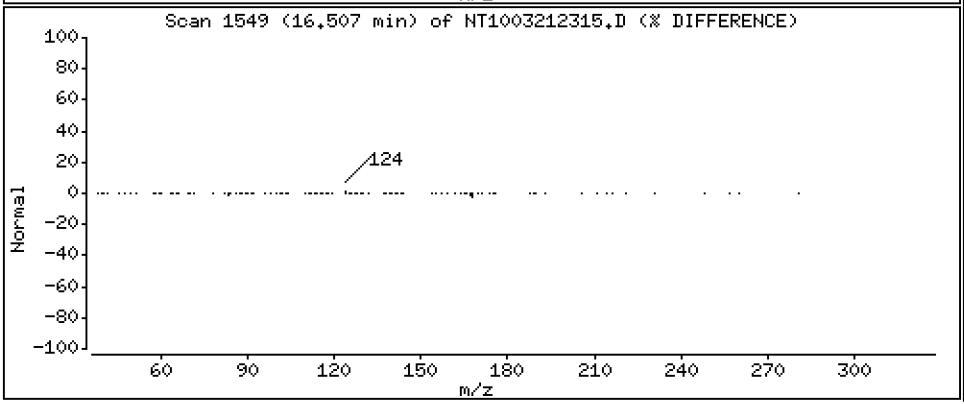
54 N-Nitrosodiphenylamine

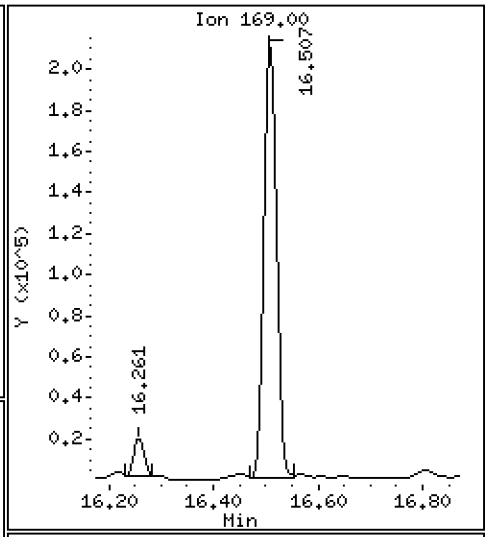
Concentration: 3.394 ug/mL

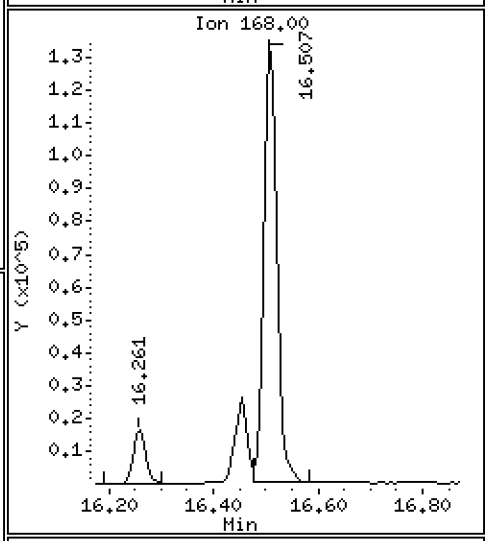


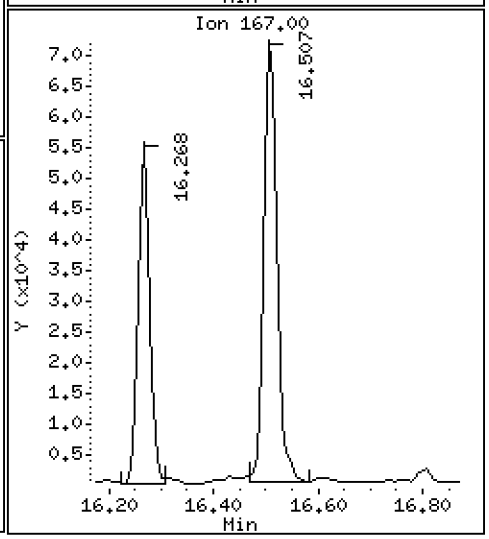












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Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS1

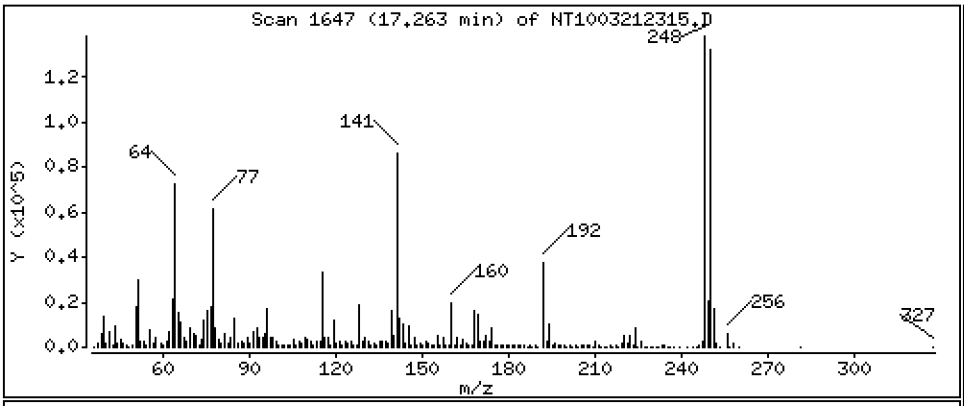
Operator: VTS

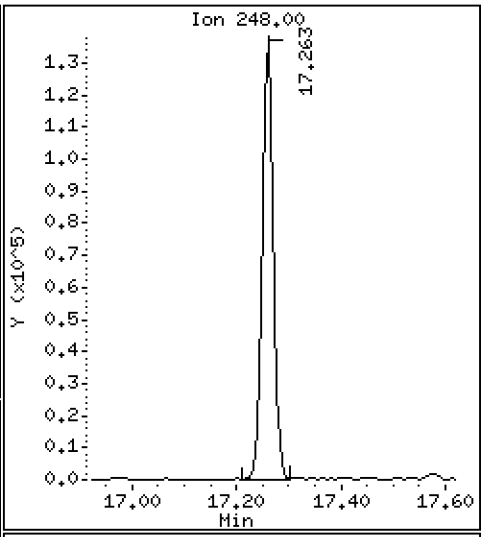
Column phase: ZB-5msi

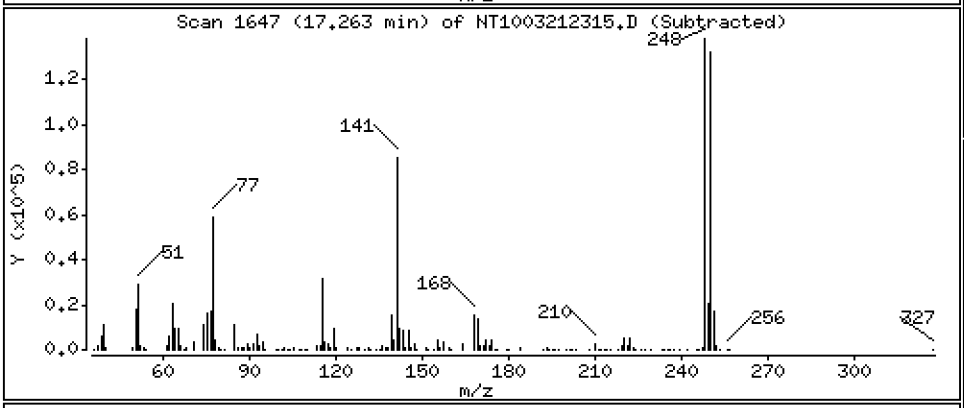
Column diameter: 0.25

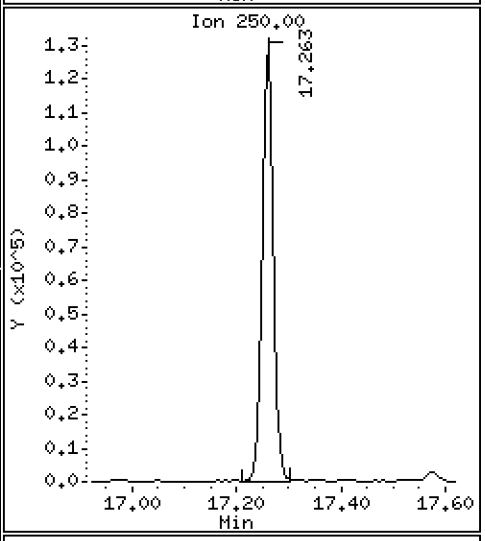
56 4-Bromophenyl-phenylether

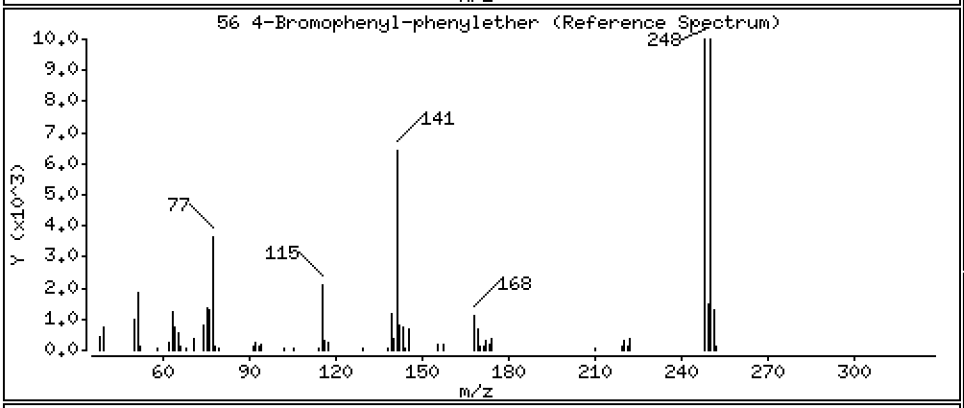
Concentration: 4.871 ug/mL

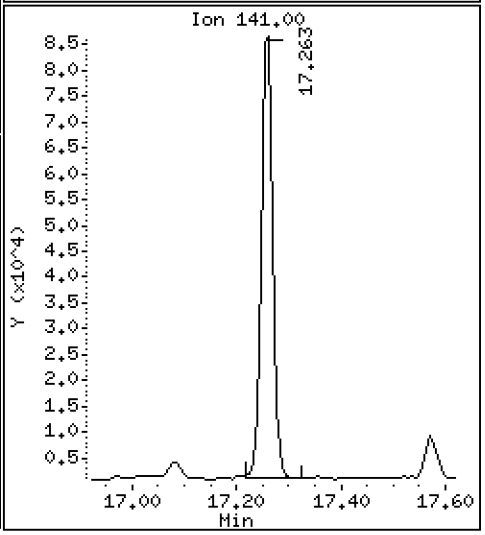


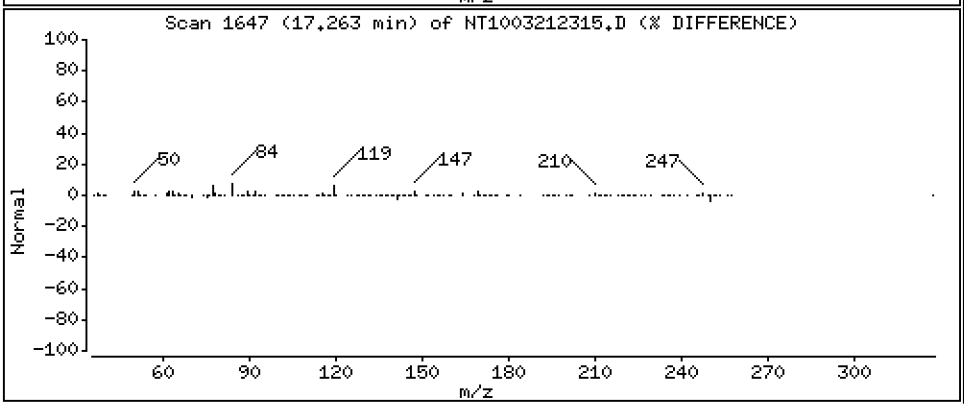












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Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS1

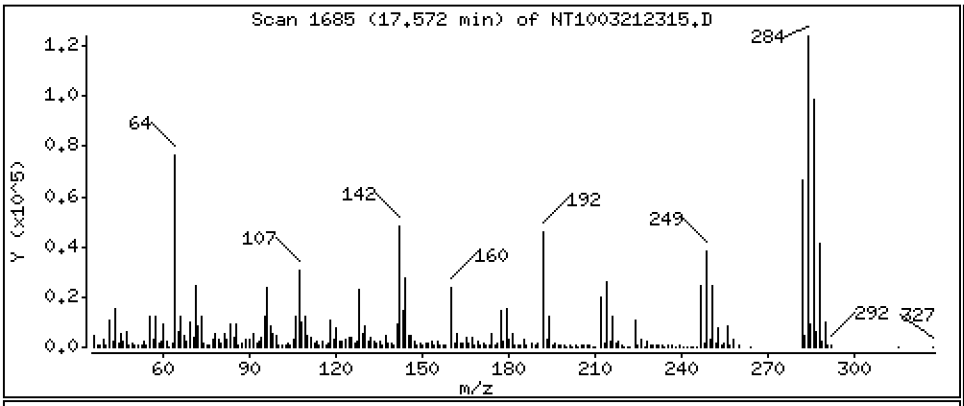
Operator: VTS

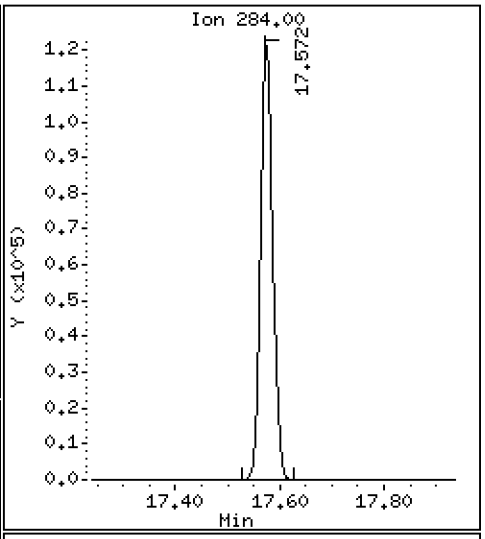
Column phase: ZB-5msi

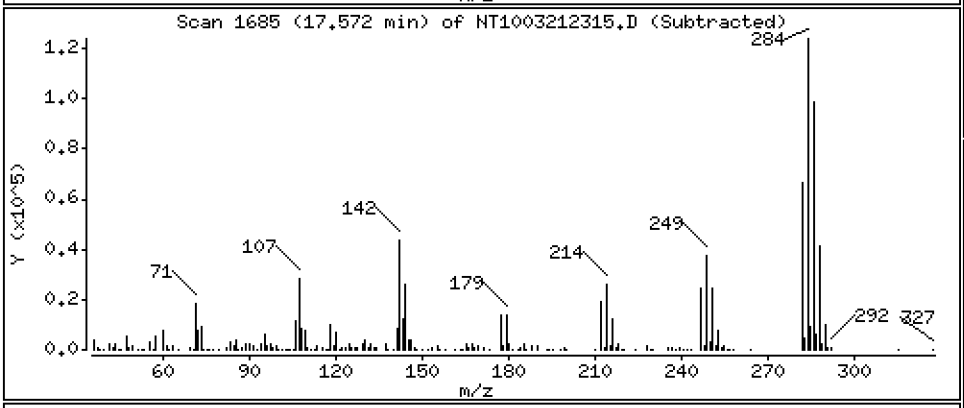
Column diameter: 0.25

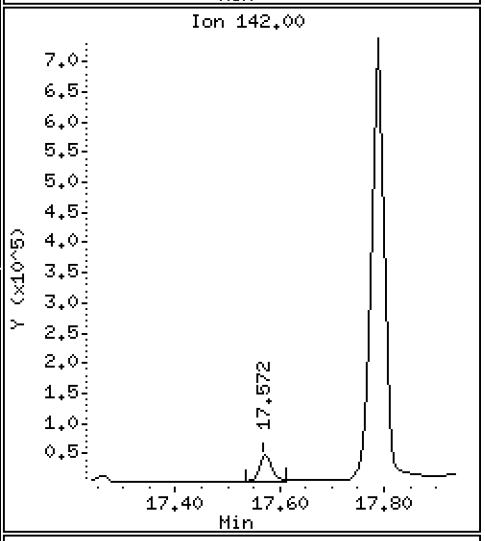
57 Hexachlorobenzene

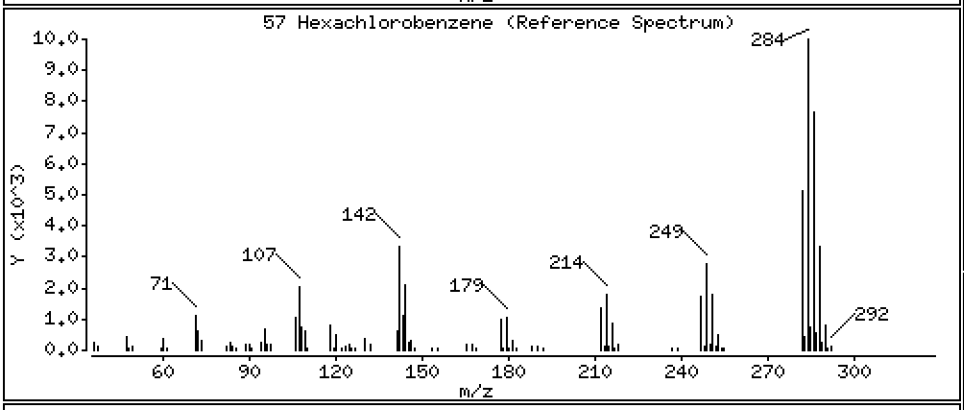
Concentration: 4.477 ug/mL

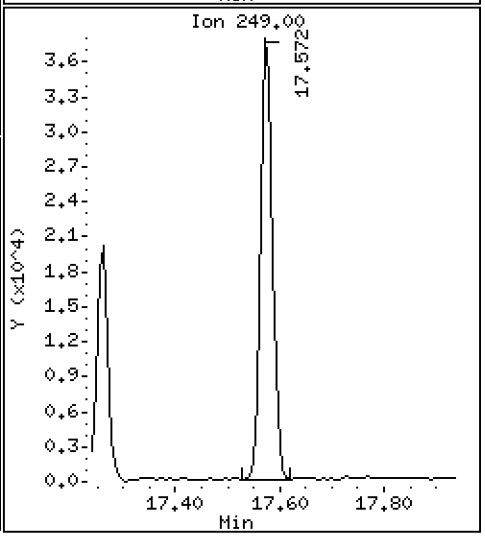


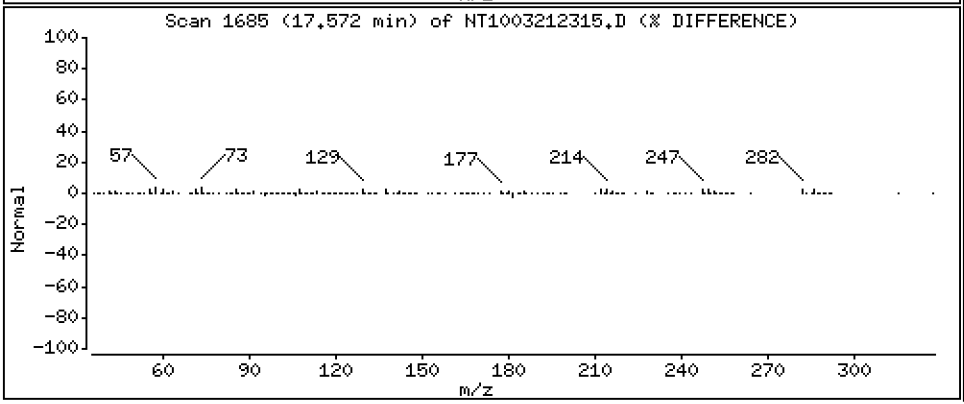












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Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS1

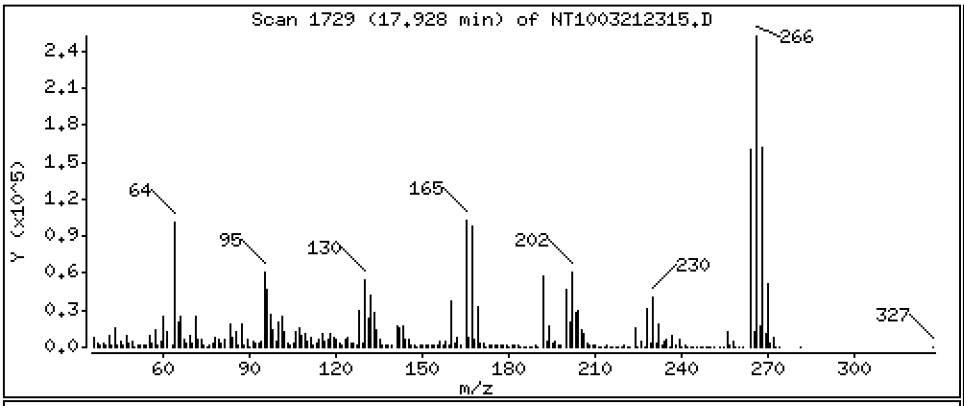
Operator: VTS

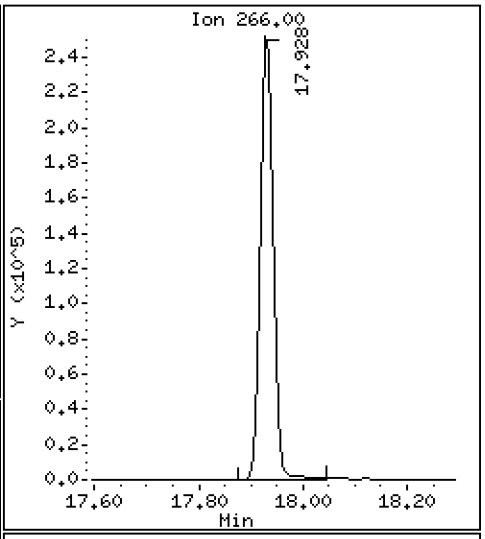
Column phase: ZB-5msi

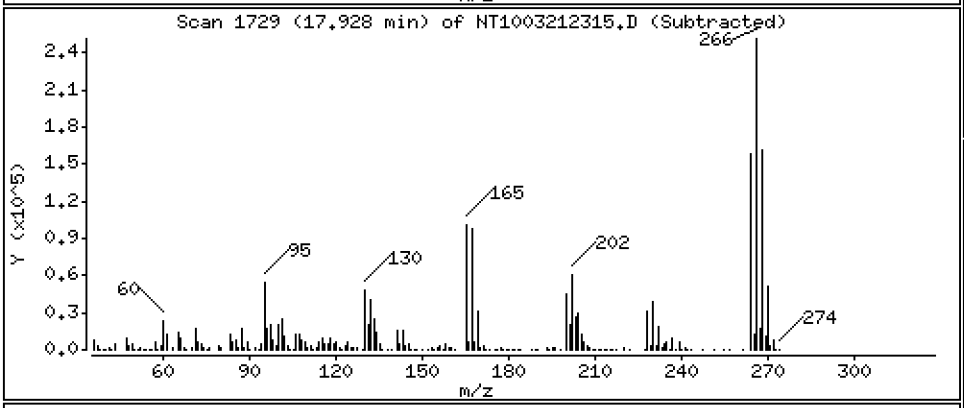
Column diameter: 0.25

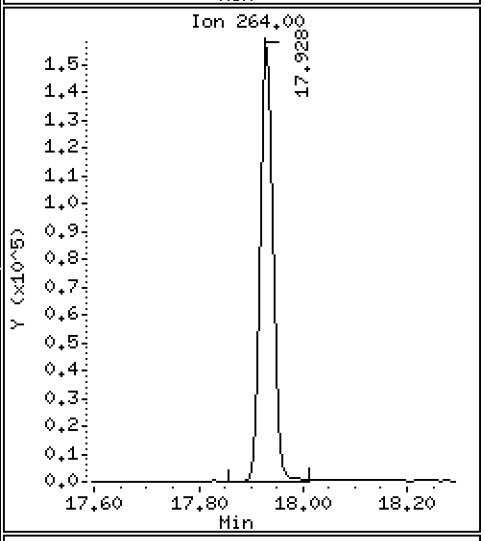
58 Pentachlorophenol

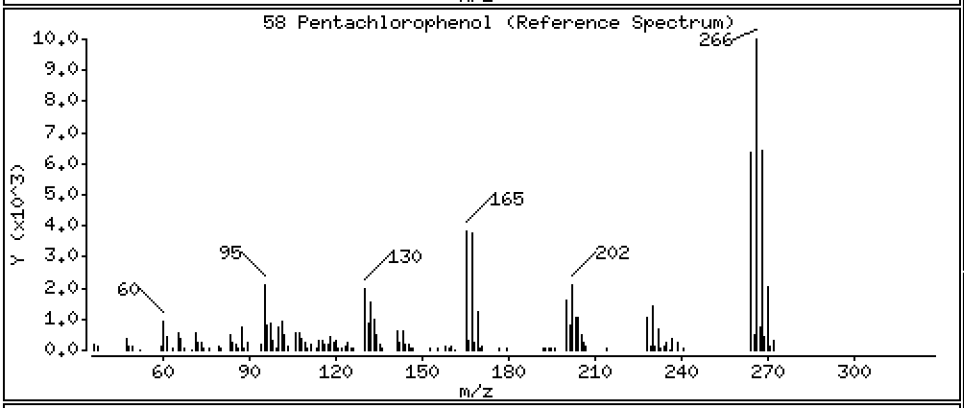
Concentration: 15.42 ug/mL

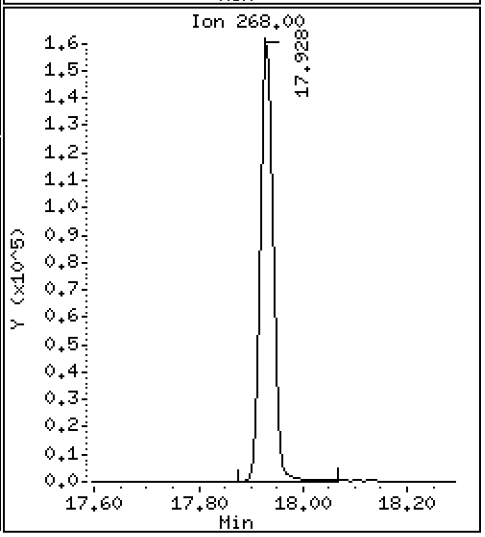


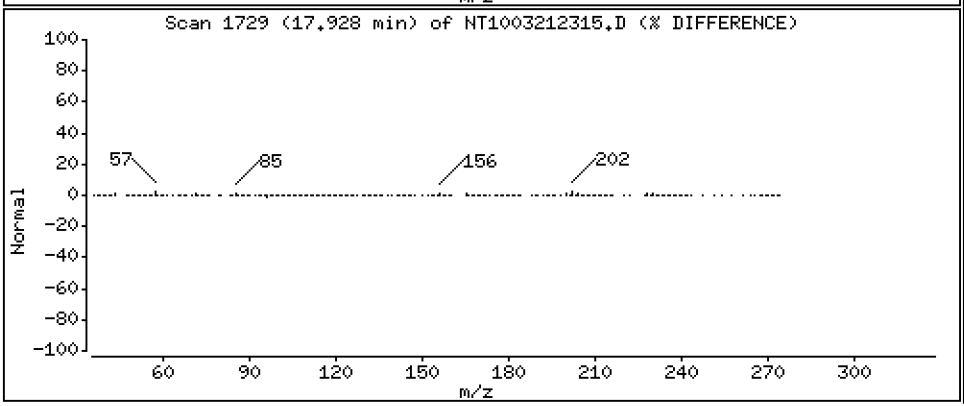












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Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS1

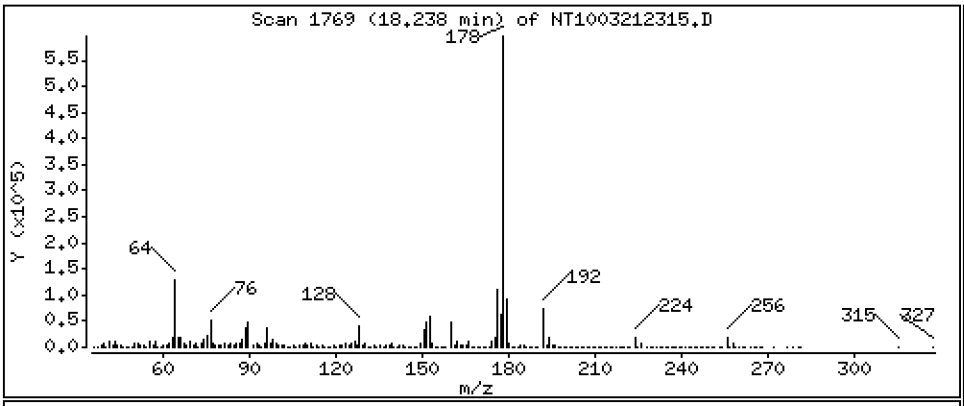
Operator: VTS

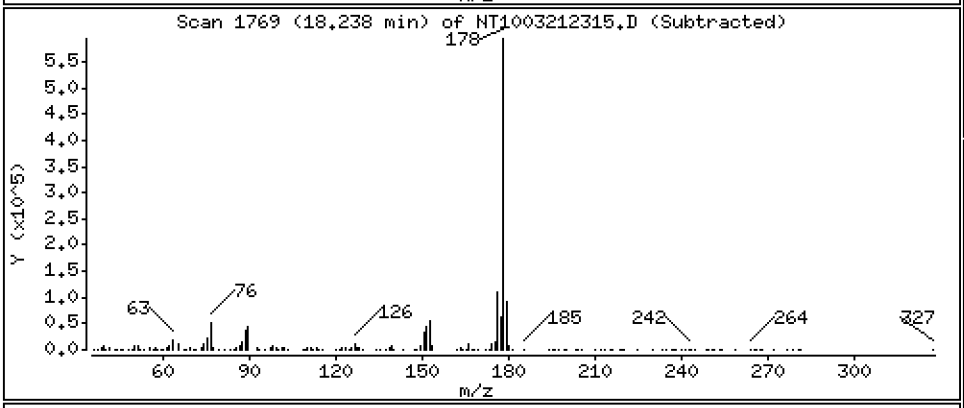
Column phase: ZB-5msi

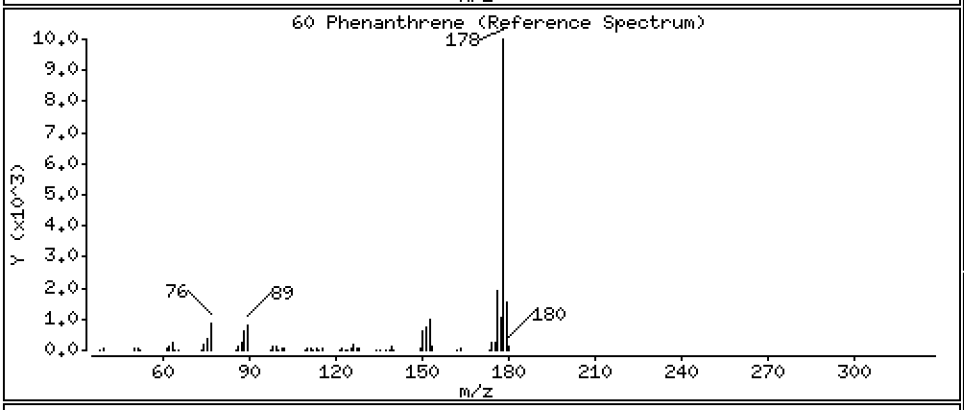
Column diameter: 0.25

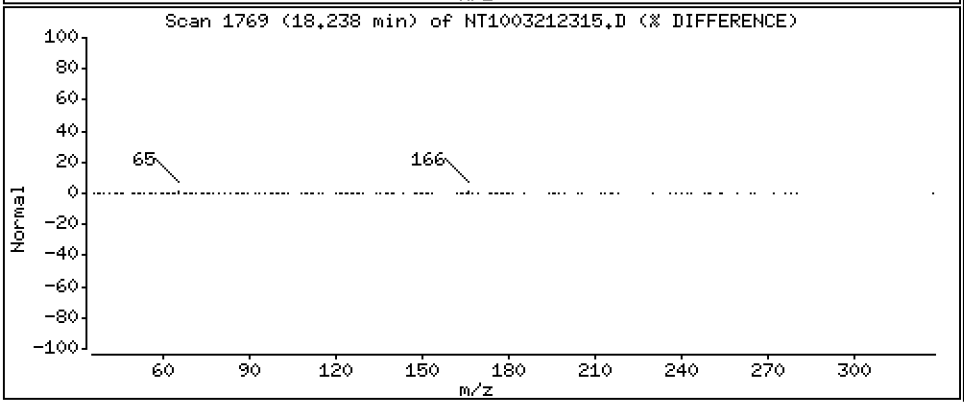
60 Phenanthrene

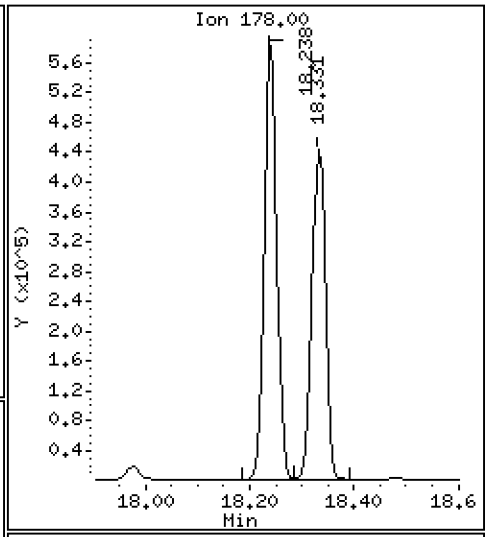
Concentration: 4.713 ug/mL

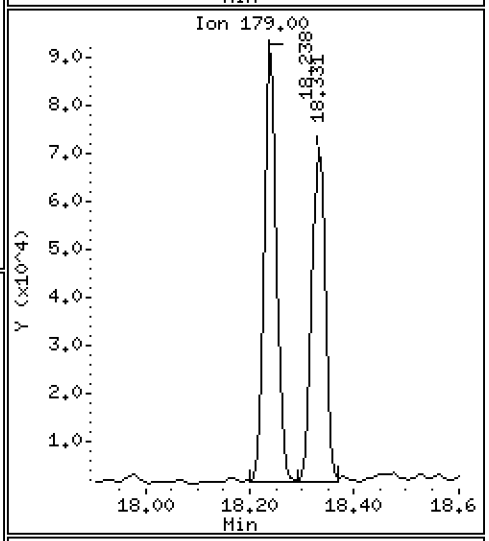


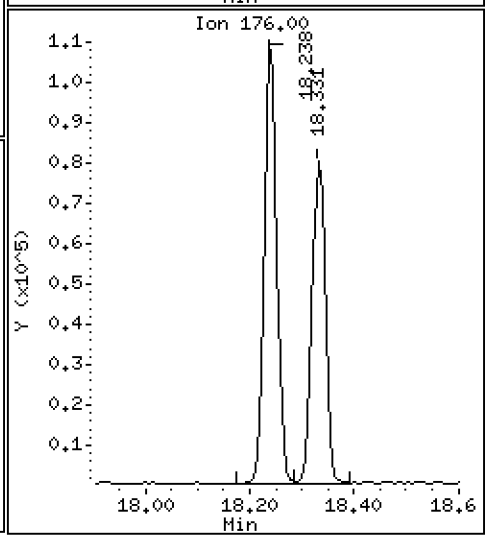












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Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS1

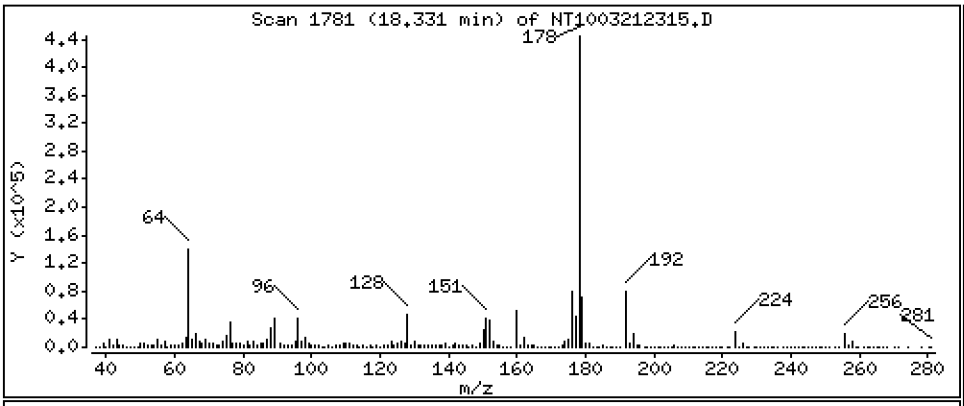
Operator: VTS

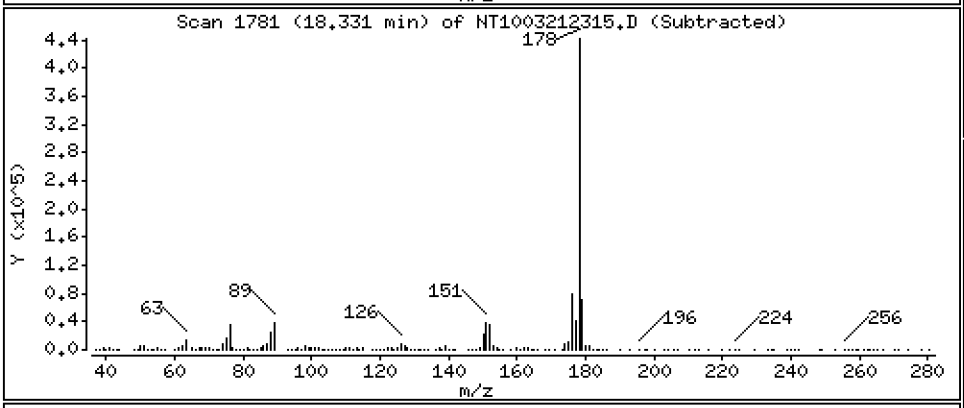
Column phase: ZB-5msi

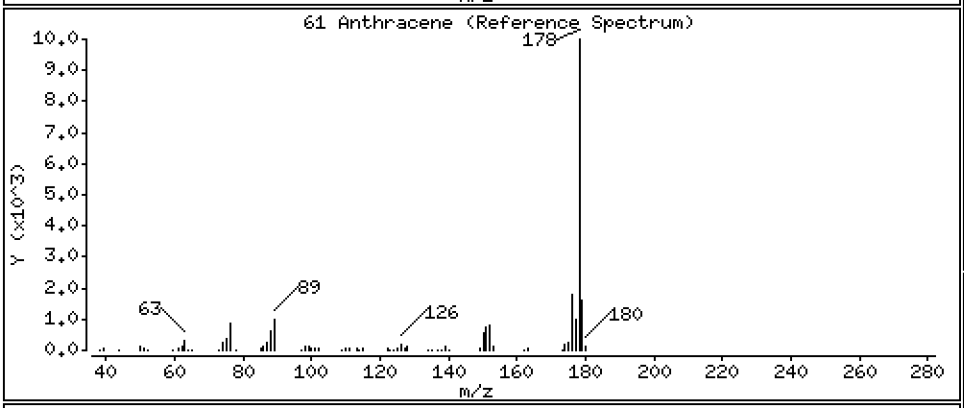
Column diameter: 0.25

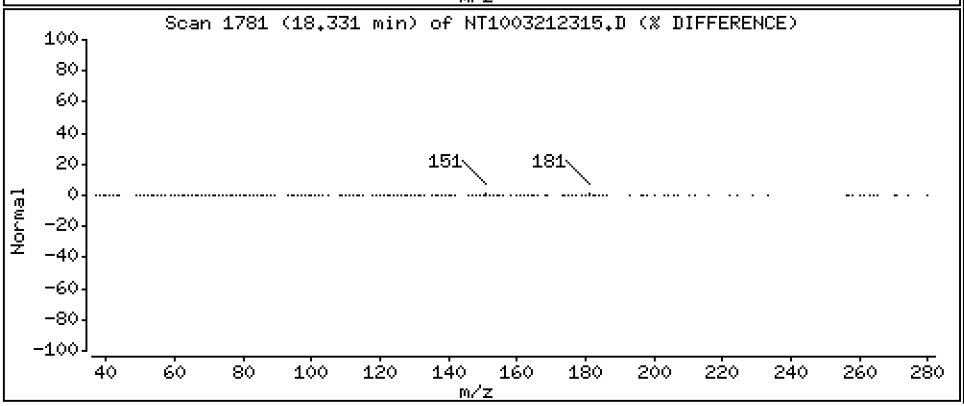
61 Anthracene

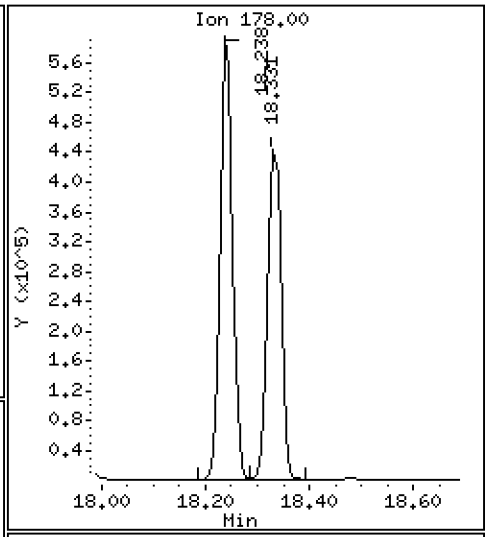
Concentration: 3.865 ug/mL

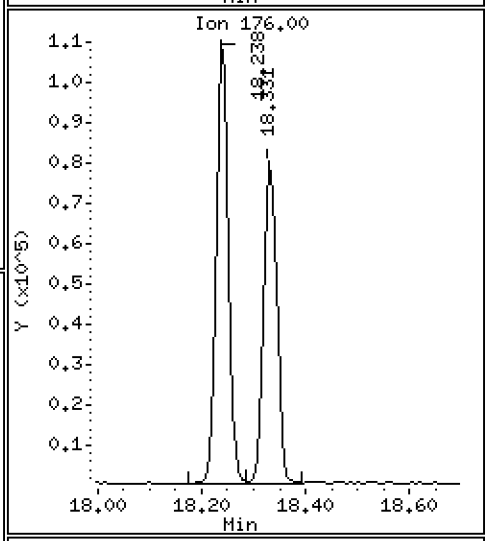


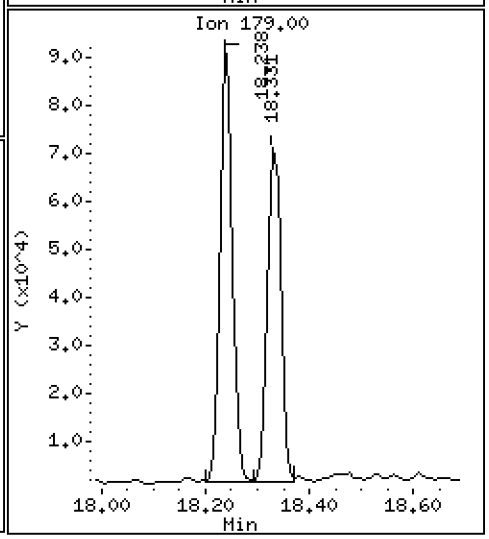












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Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS1

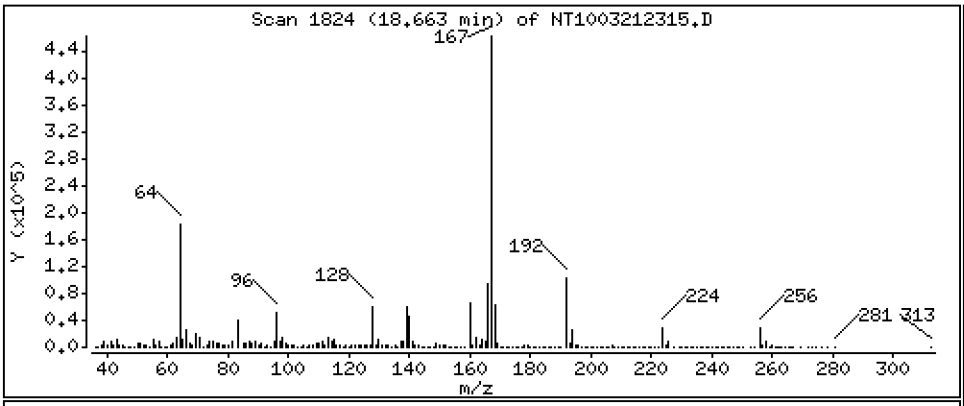
Operator: VTS

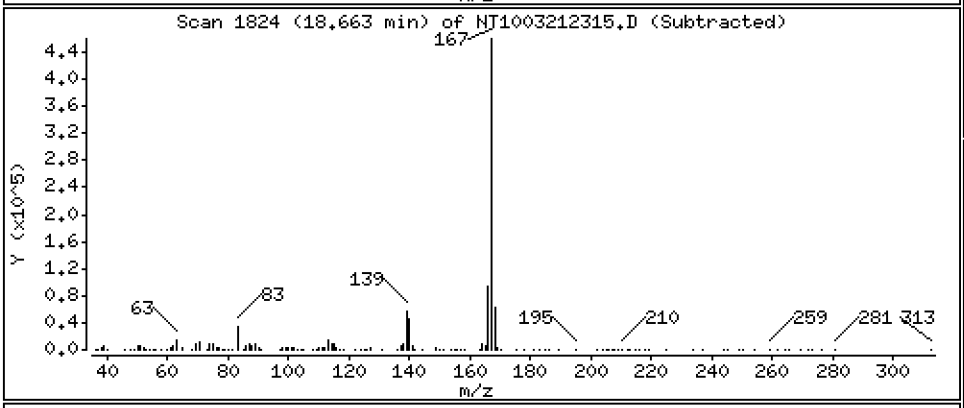
Column phase: ZB-5msi

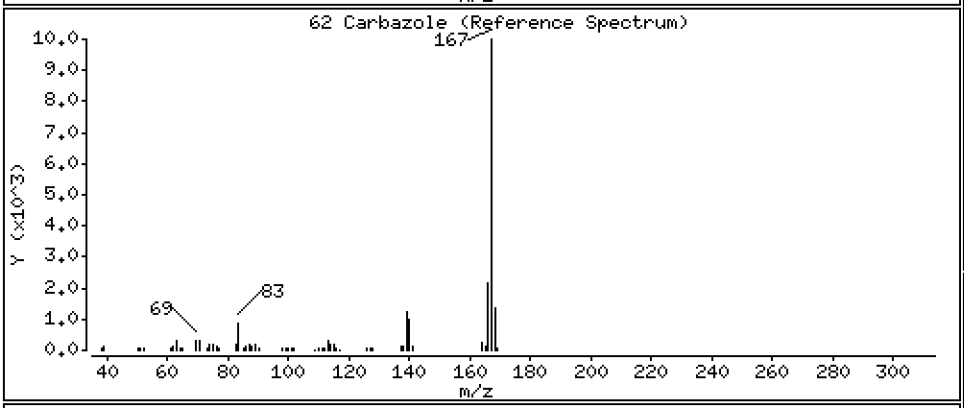
Column diameter: 0.25

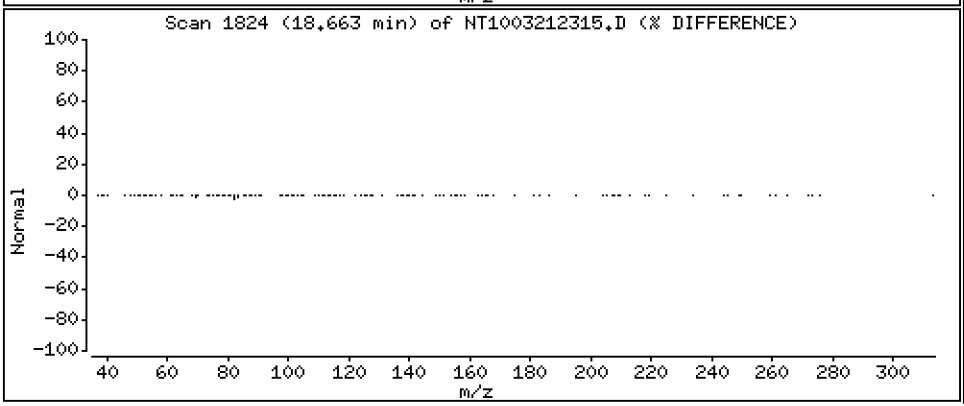
62 Carbazole

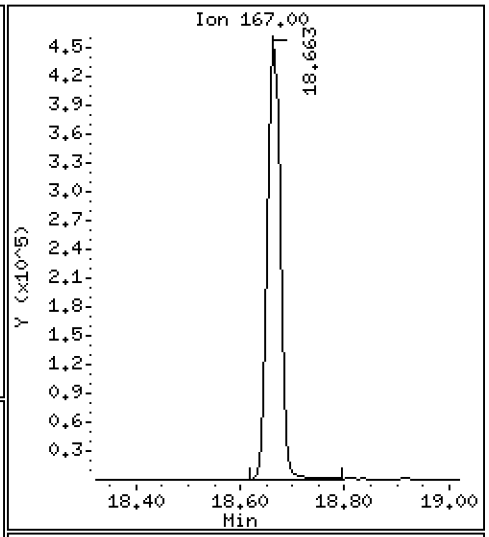
Concentration: 4.221 ug/mL

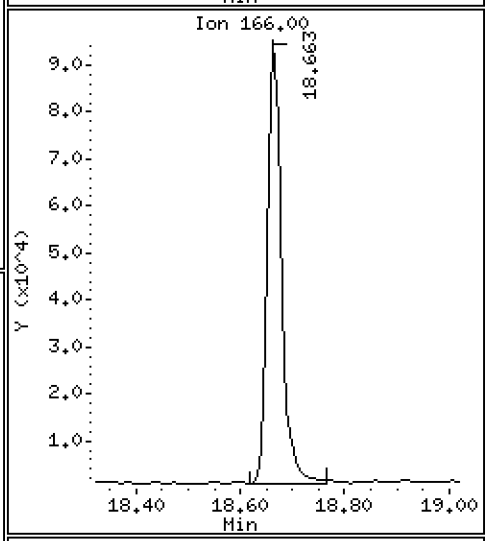


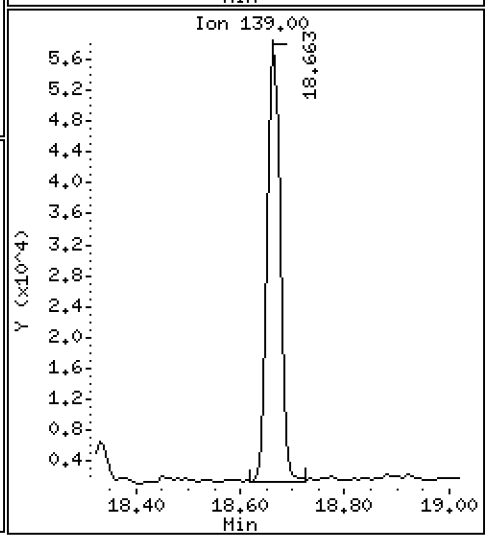












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Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS1

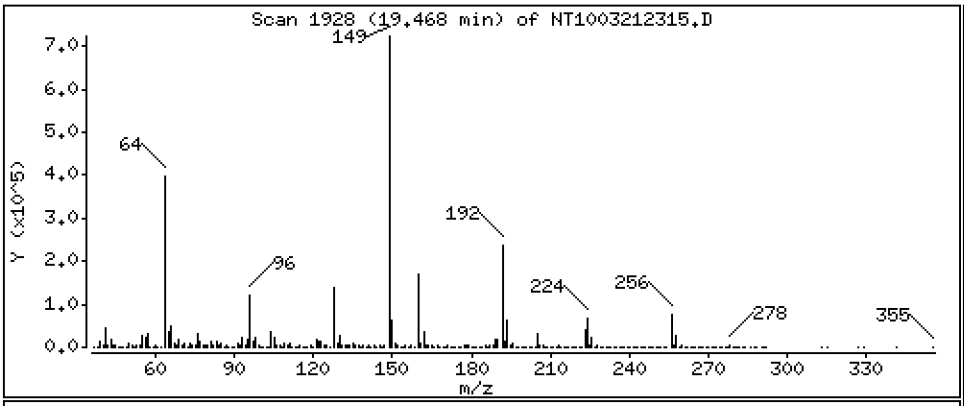
Operator: VTS

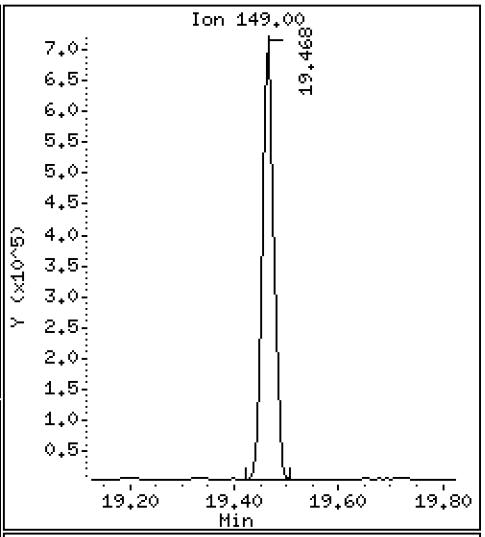
Column phase: ZB-5msi

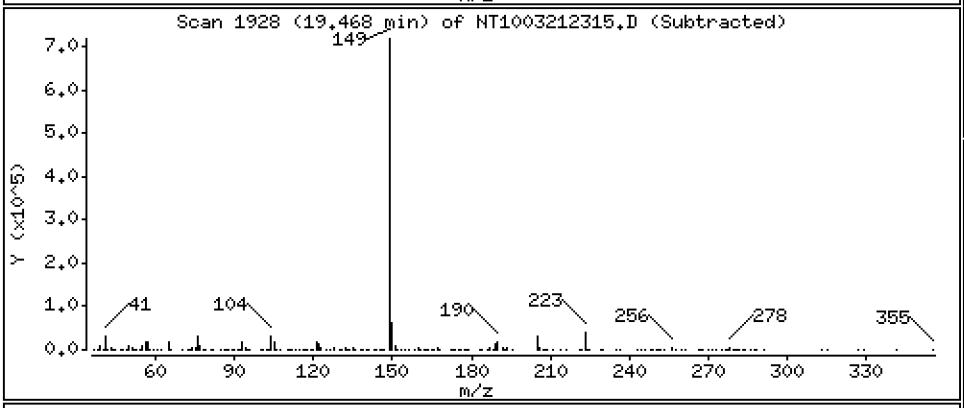
Column diameter: 0.25

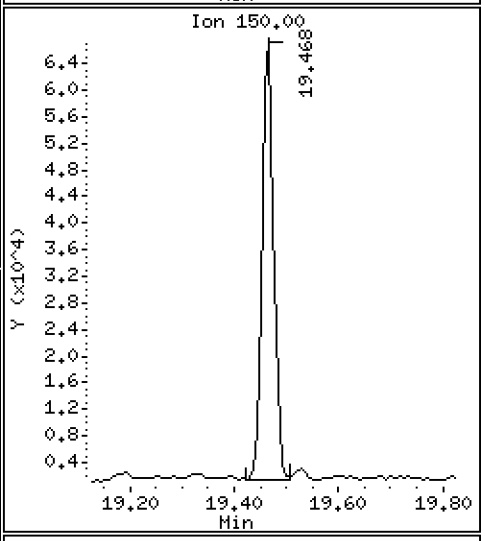
63 Di-n-butylphthalate

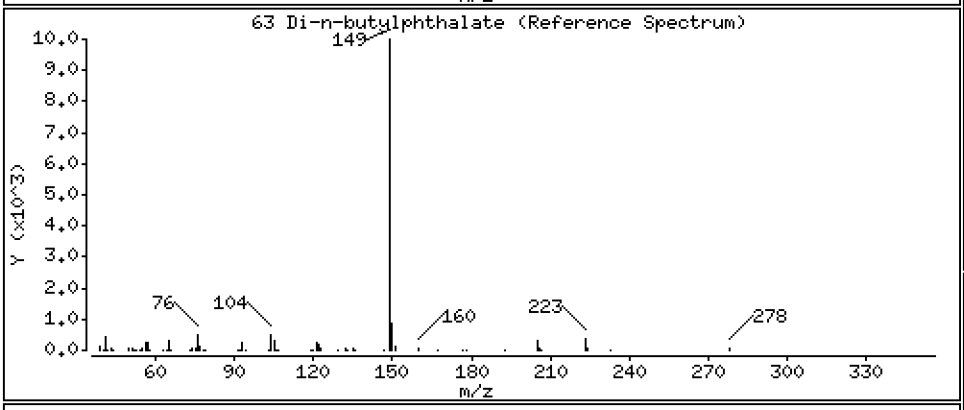
Concentration: 4.568 ug/mL

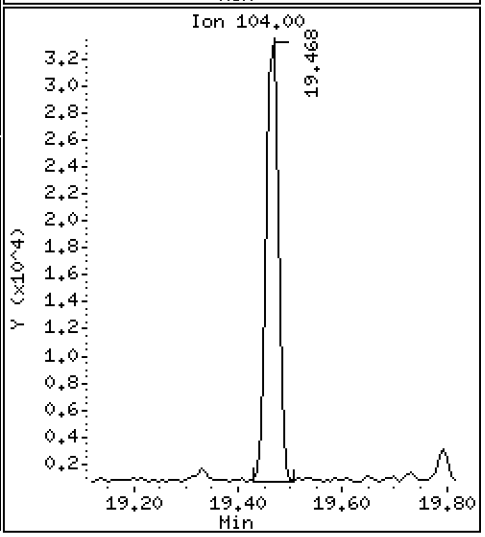


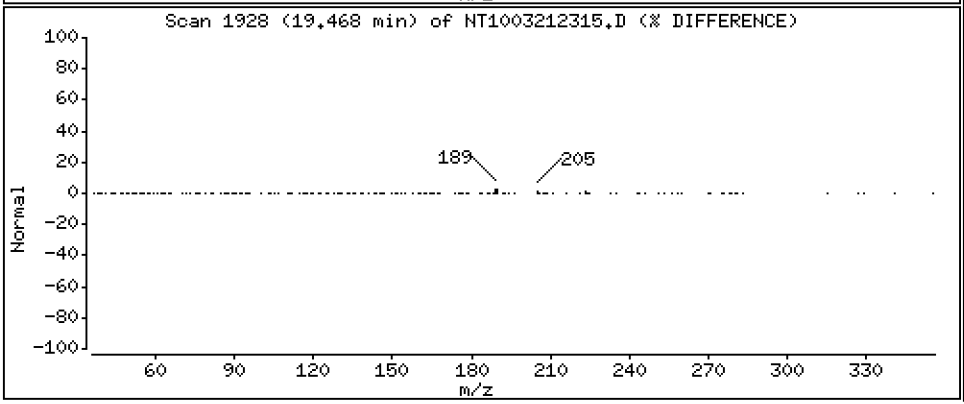












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Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS1

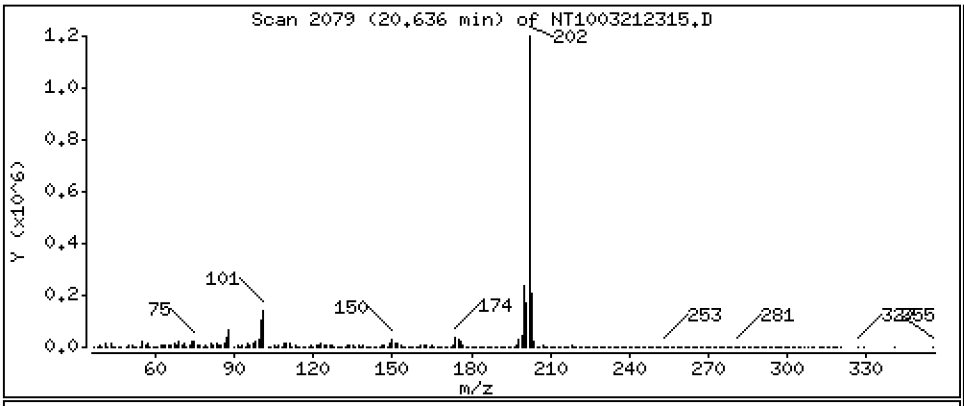
Operator: VTS

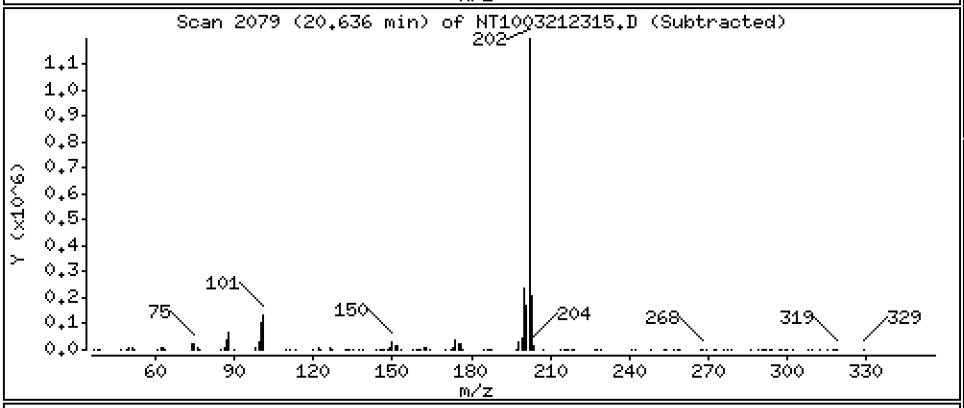
Column phase: ZB-5msi

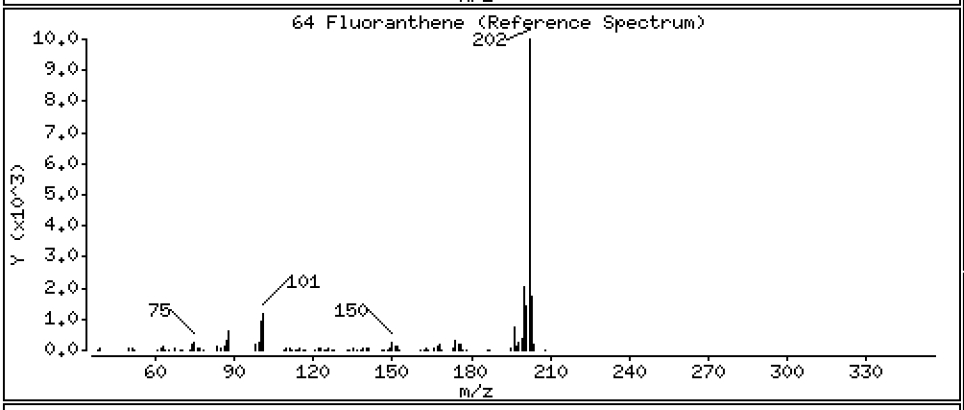
Column diameter: 0.25

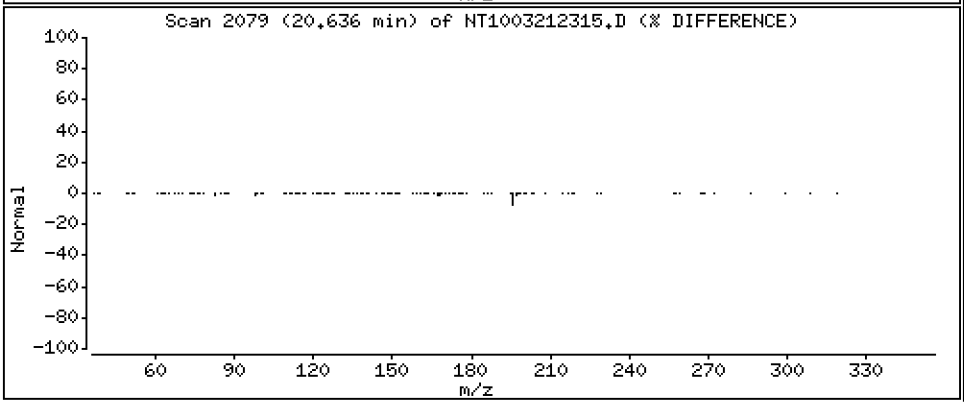
64 Fluoranthene

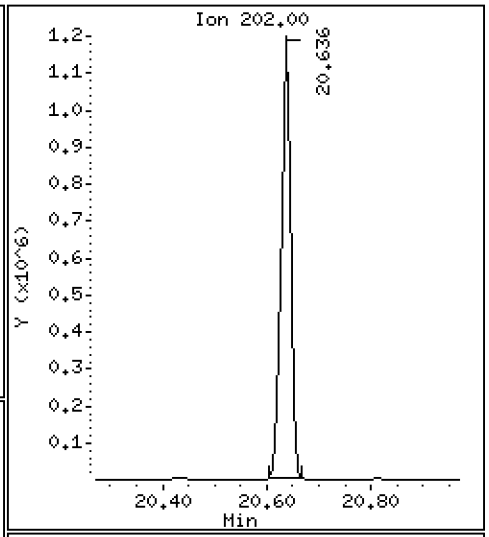
Concentration: 5.343 ug/mL

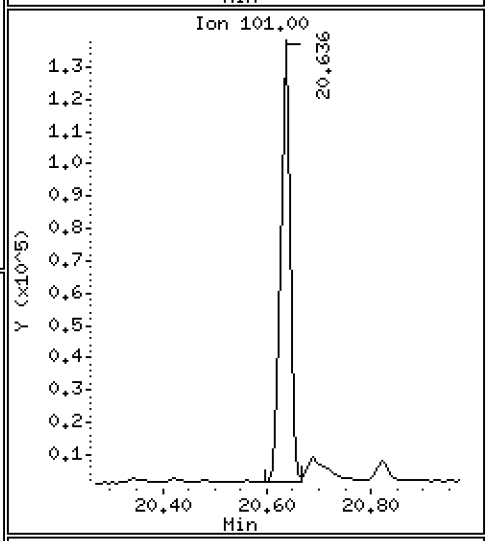


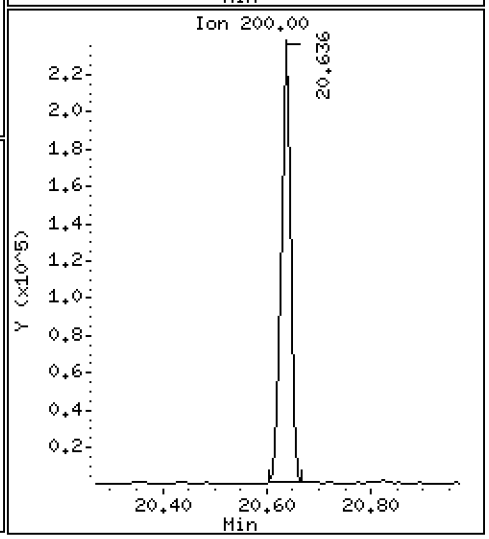












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212315.D

Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS1

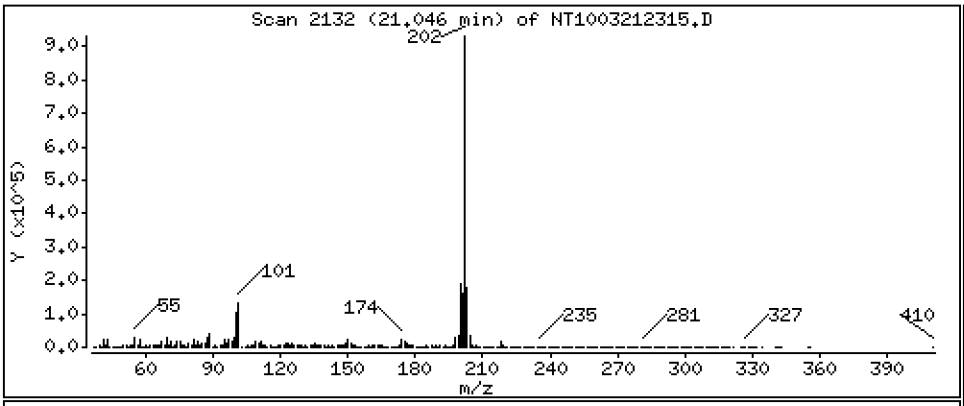
Operator: VTS

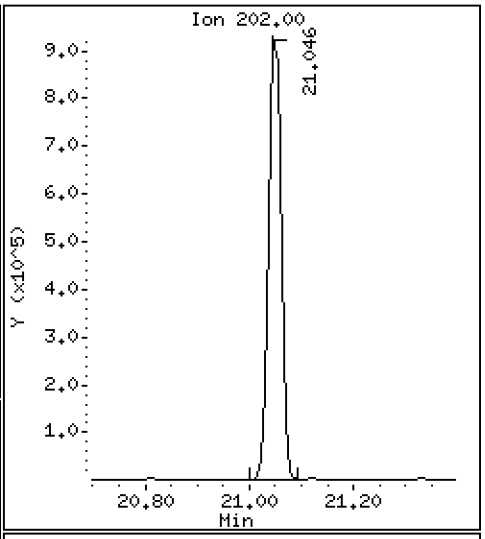
Column phase: ZB-5msi

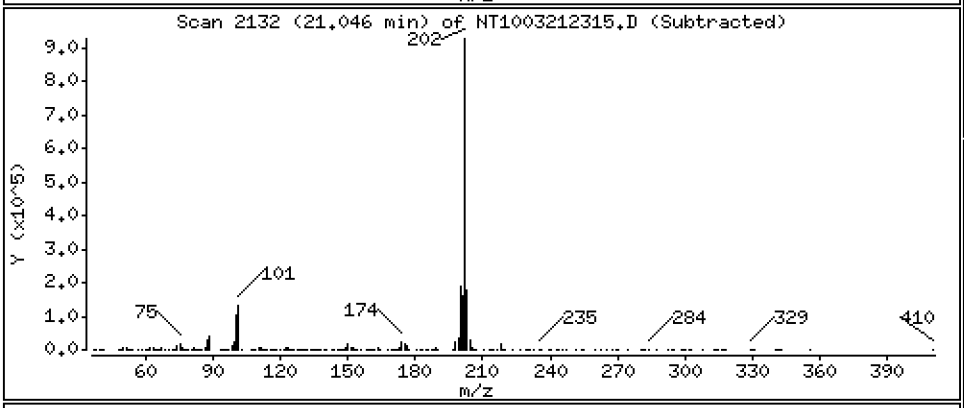
Column diameter: 0.25

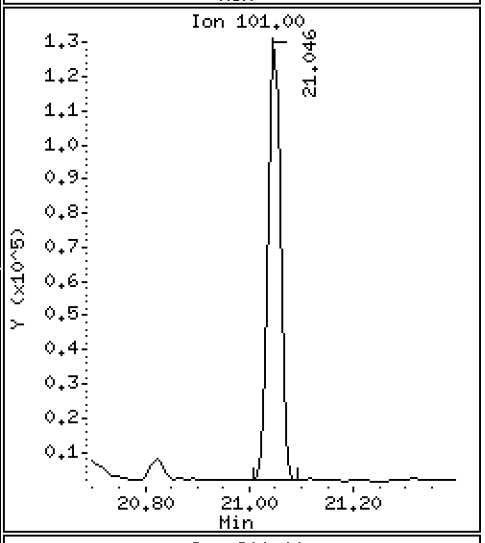
65 Pyrene

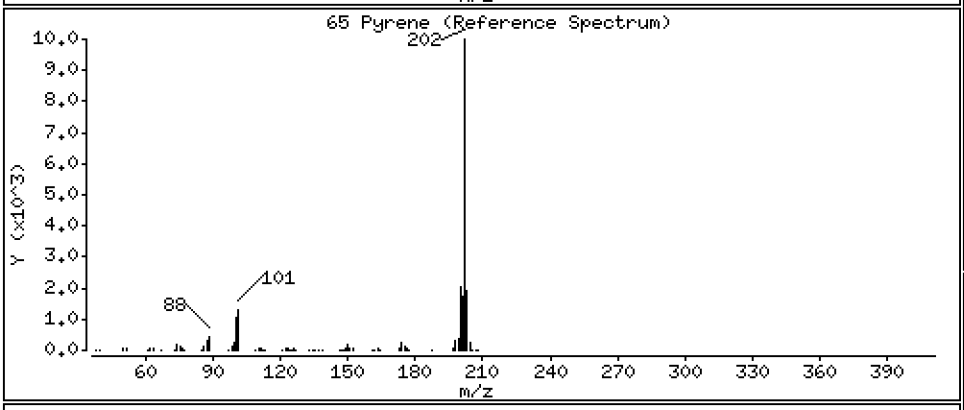
Concentration: 5.182 ug/mL

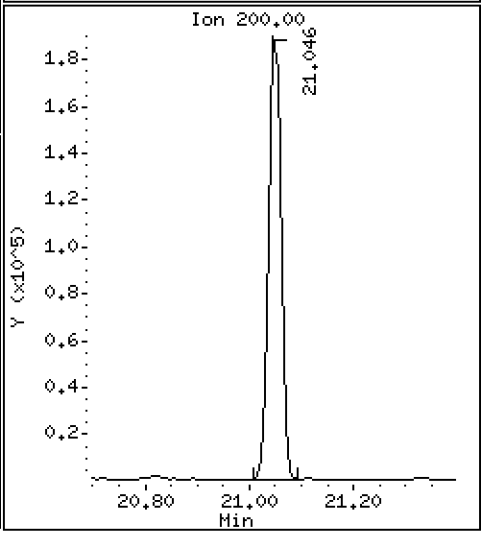


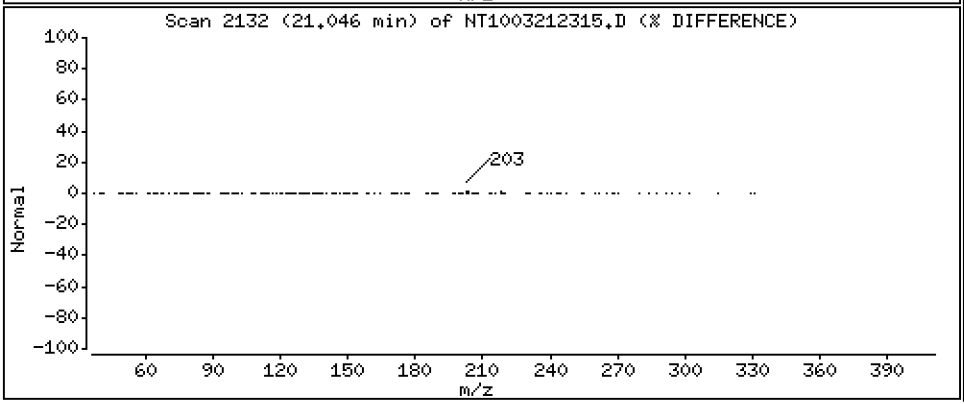












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Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS1

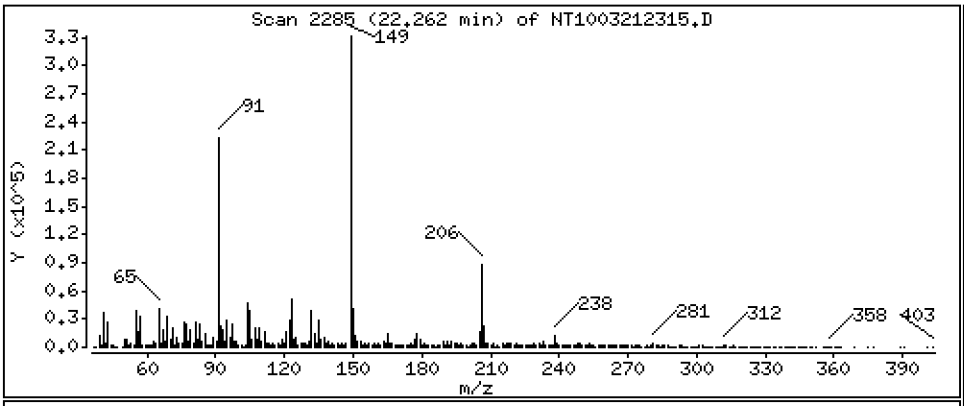
Operator: VTS

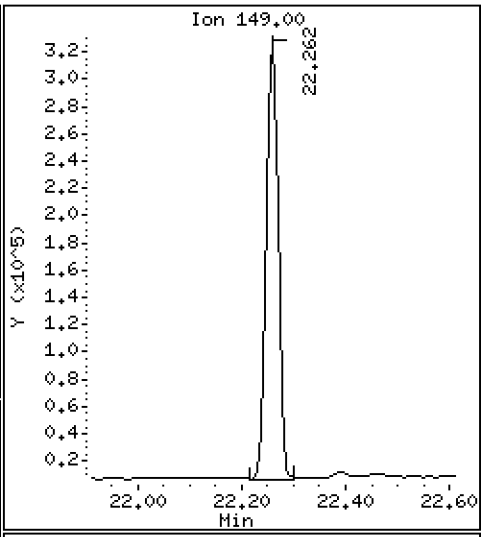
Column phase: ZB-5msi

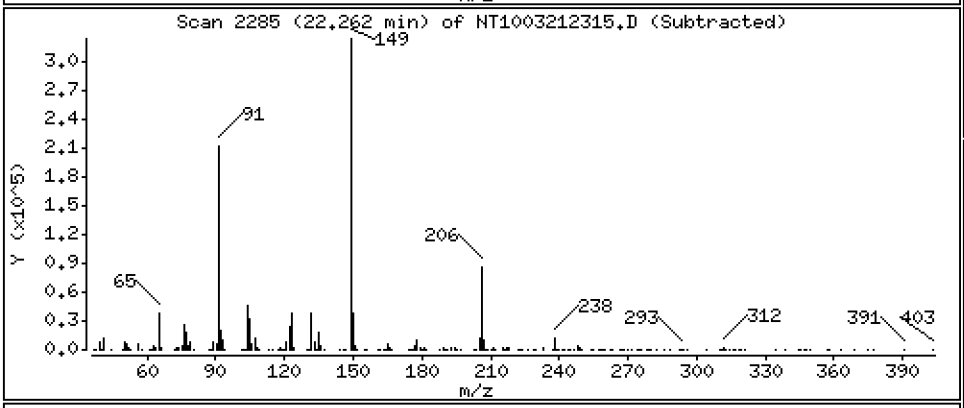
Column diameter: 0.25

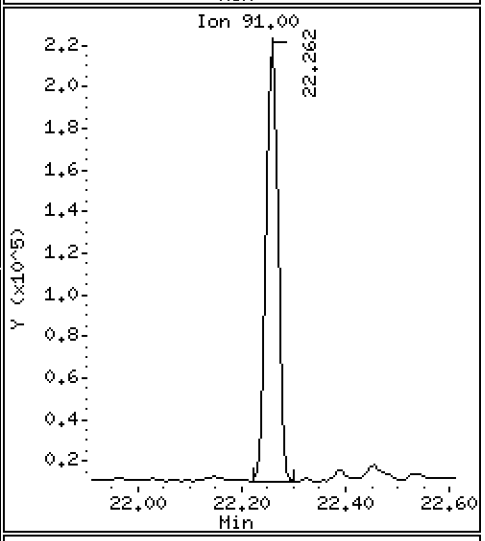
67 Butylbenzylphthalate

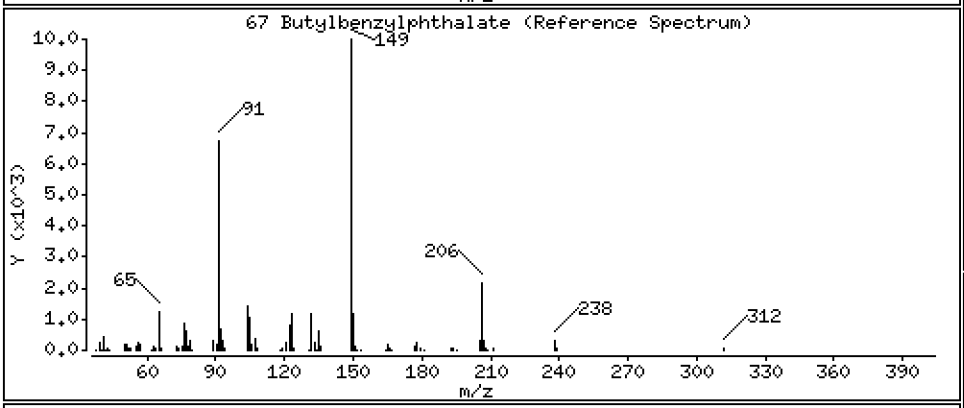
Concentration: 4.768 ug/mL

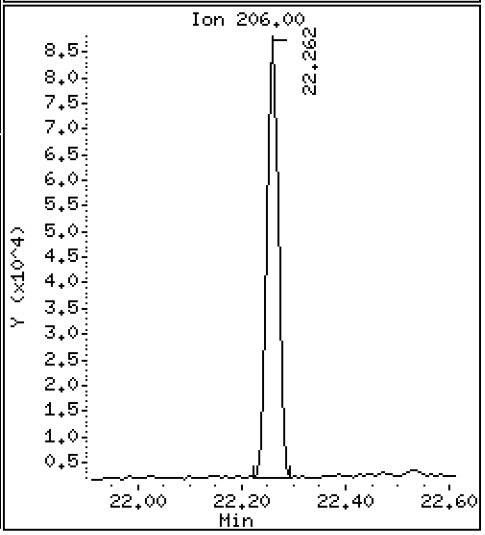


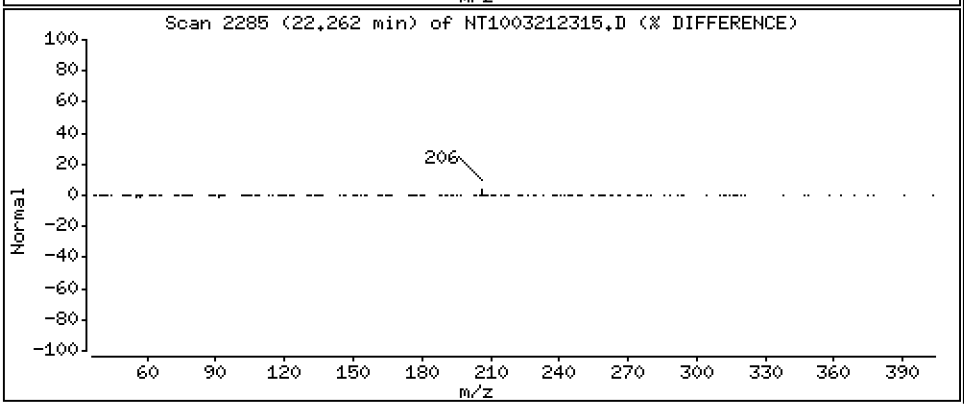












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212315.D

Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS1

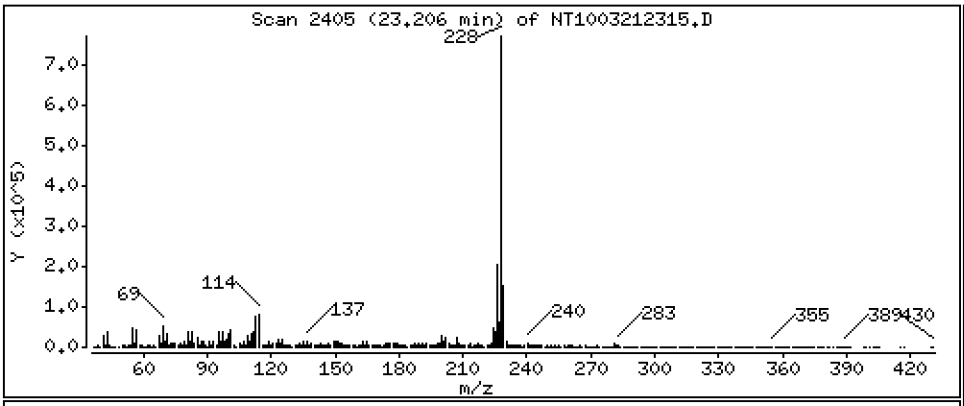
Operator: VTS

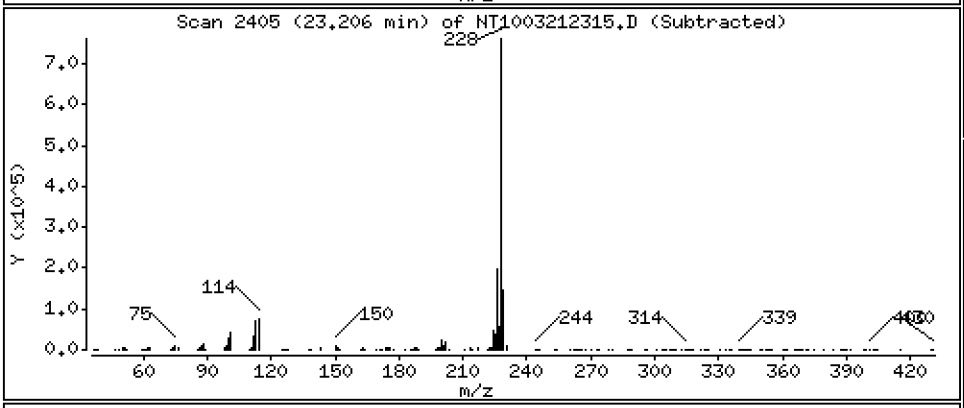
Column phase: ZB-5msi

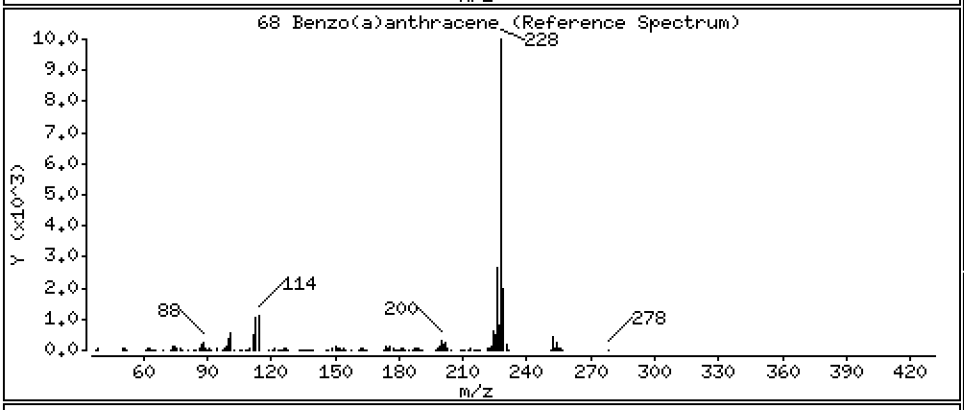
Column diameter: 0.25

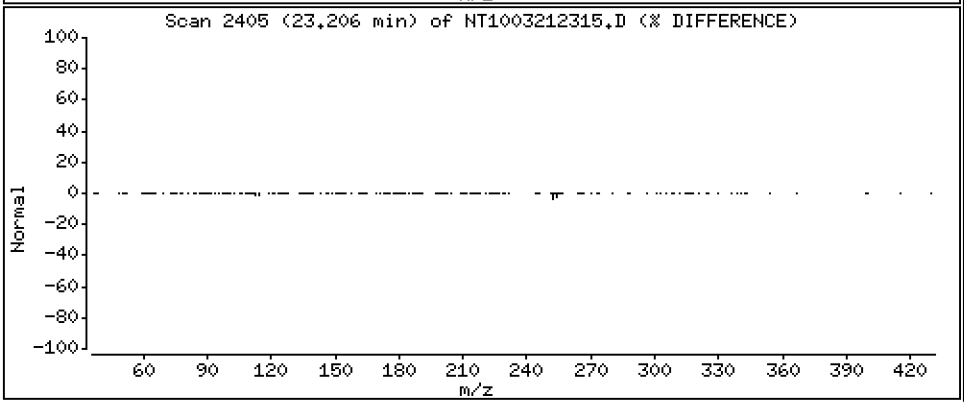
68 Benzo(a)anthracene

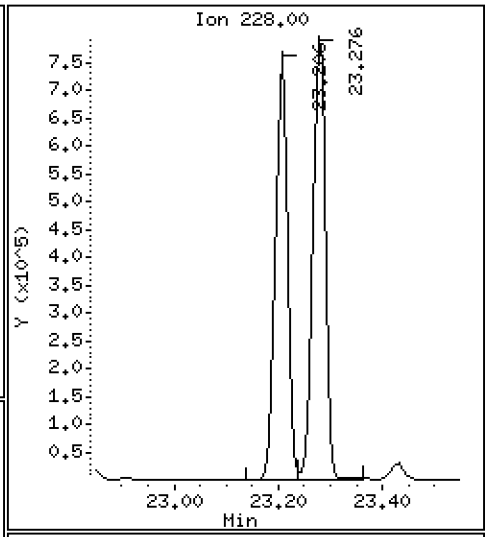
Concentration: 4.938 ug/mL

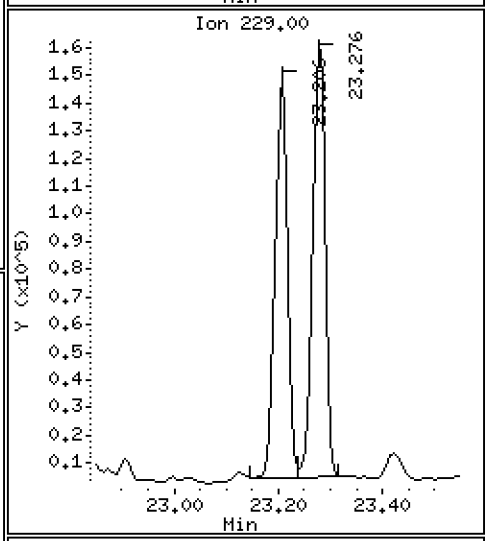


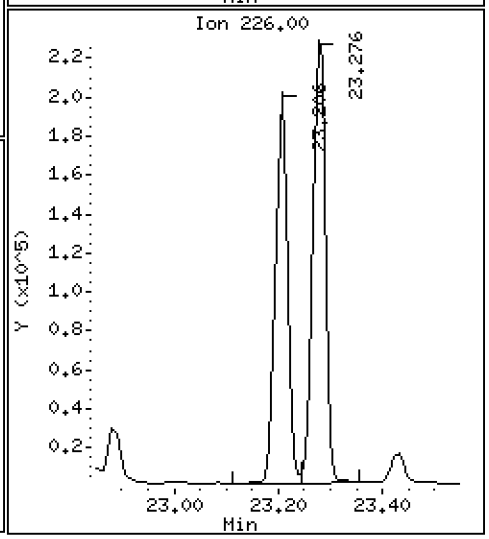












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Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS1

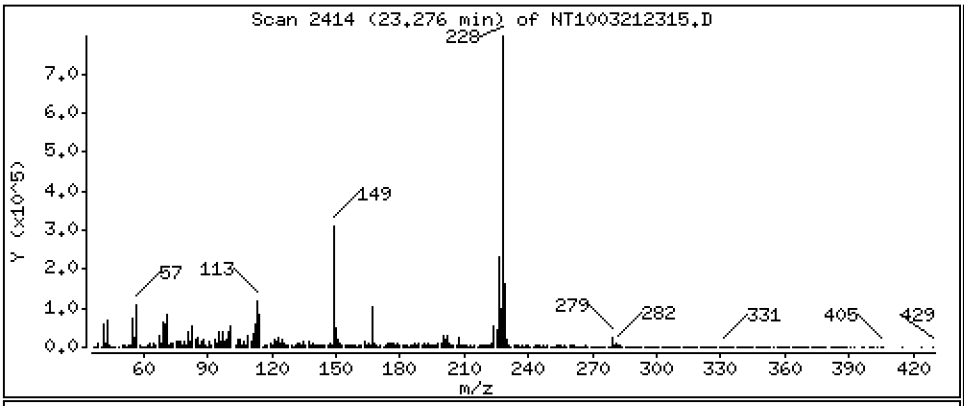
Operator: VTS

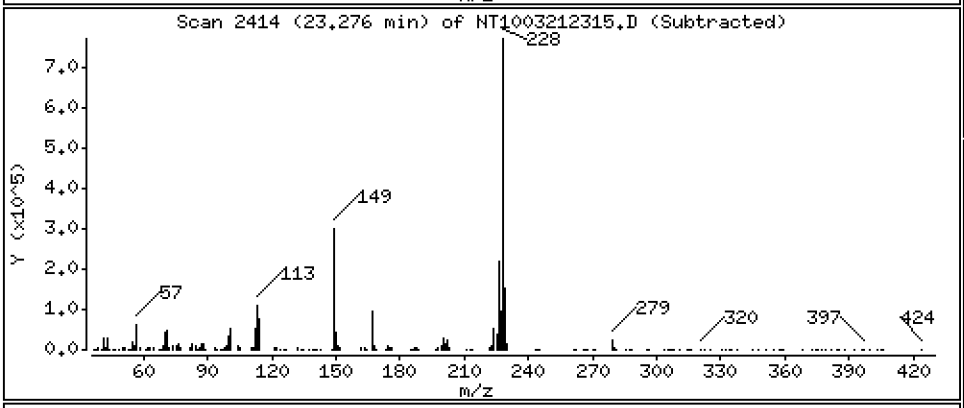
Column phase: ZB-5msi

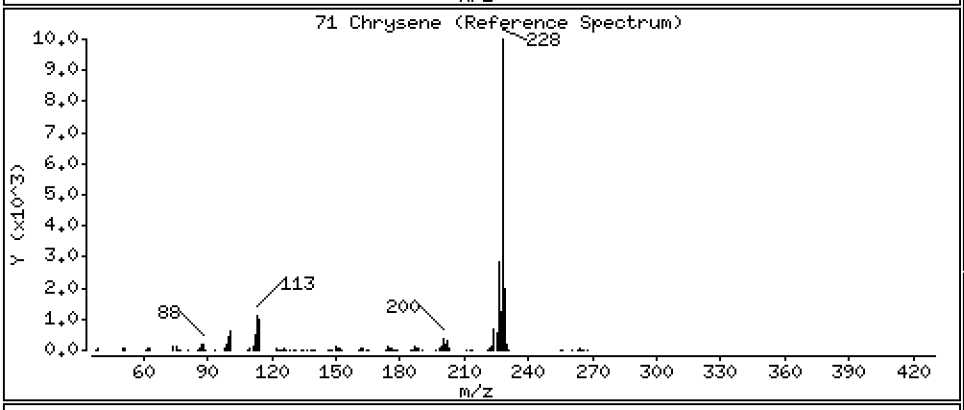
Column diameter: 0.25

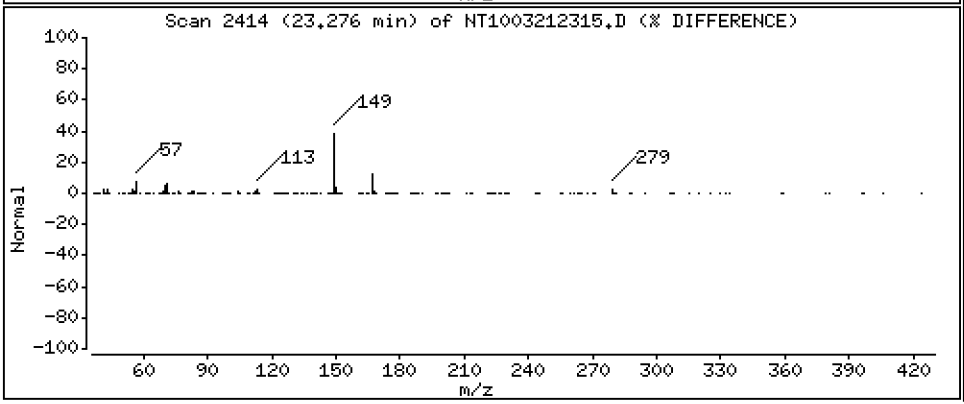
71 Chrysene

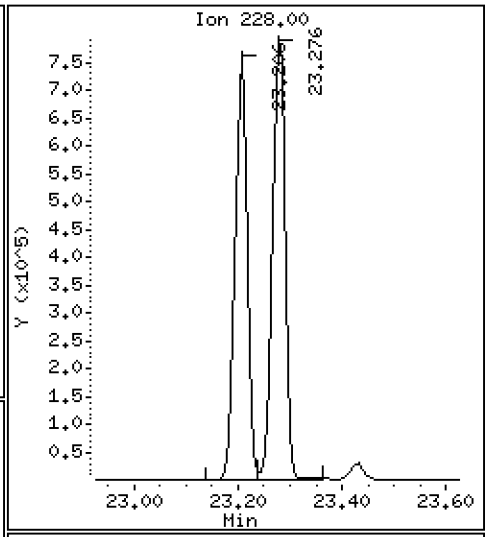
Concentration: 5.346 ug/mL

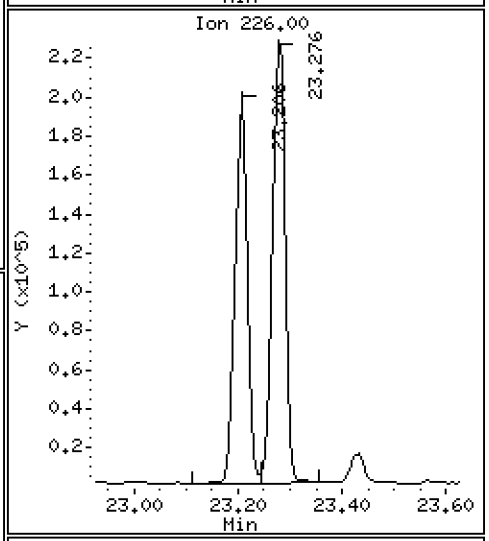


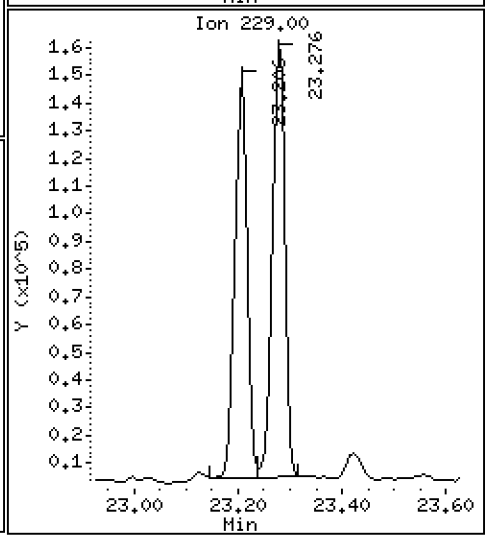












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Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS1

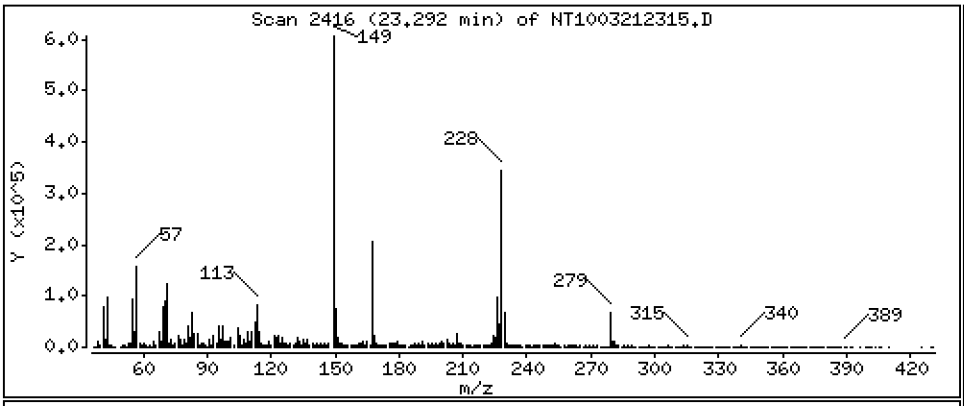
Operator: VTS

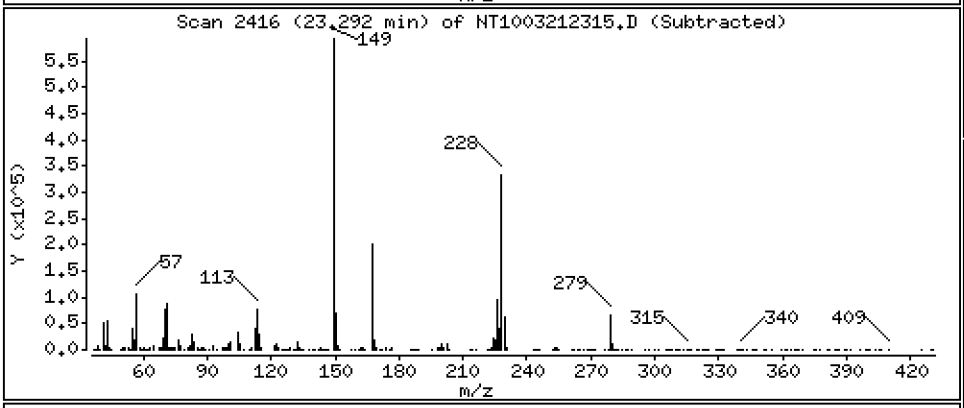
Column phase: ZB-5msi

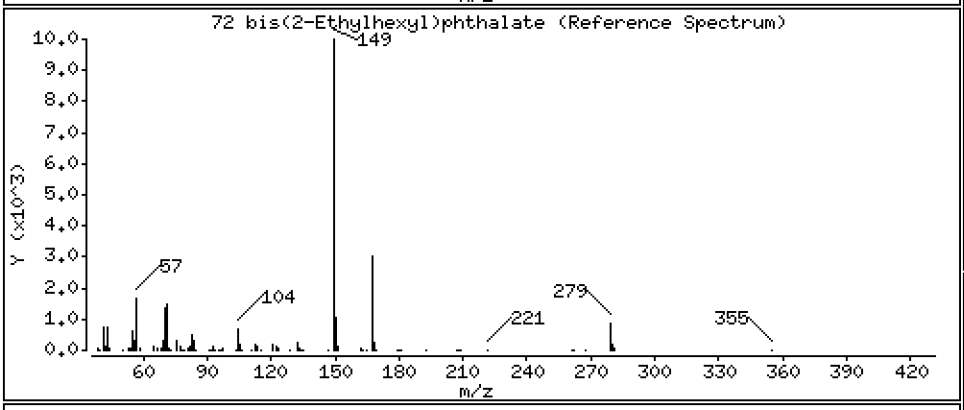
Column diameter: 0.25

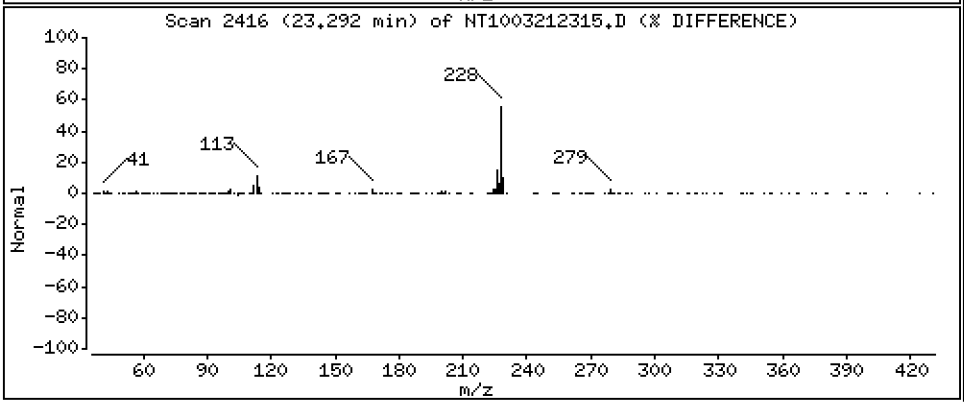
72 bis(2-Ethylhexyl)phthalate

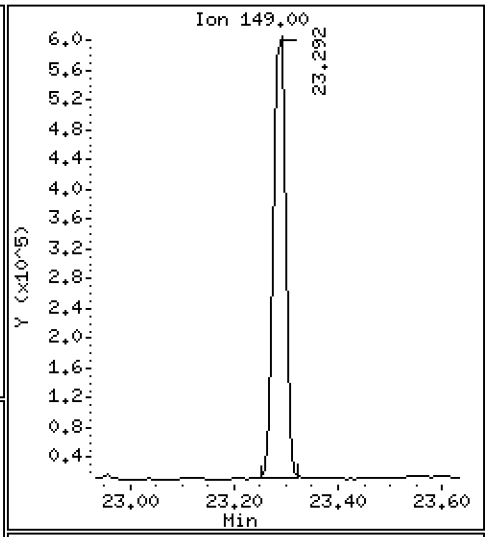
Concentration: 5.469 ug/mL

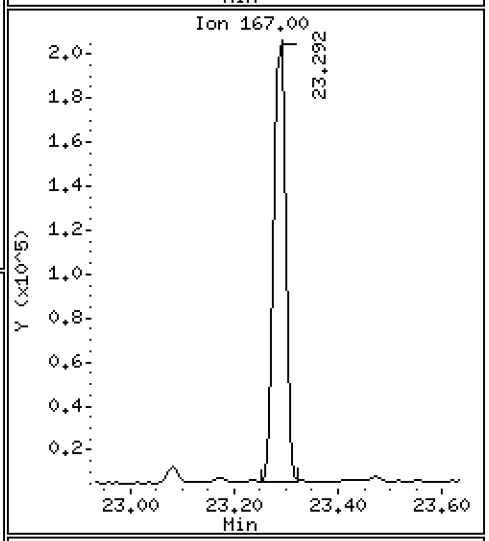


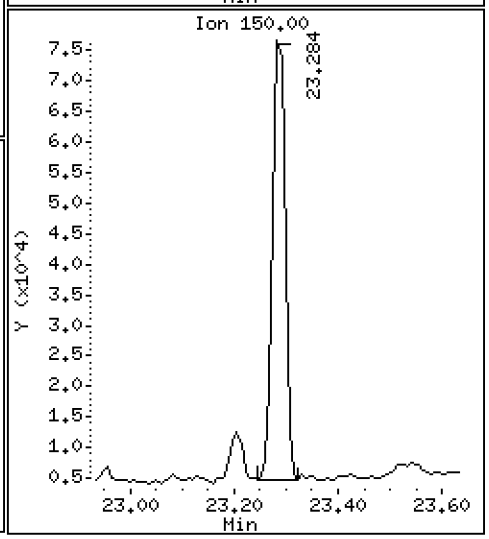












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Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS1

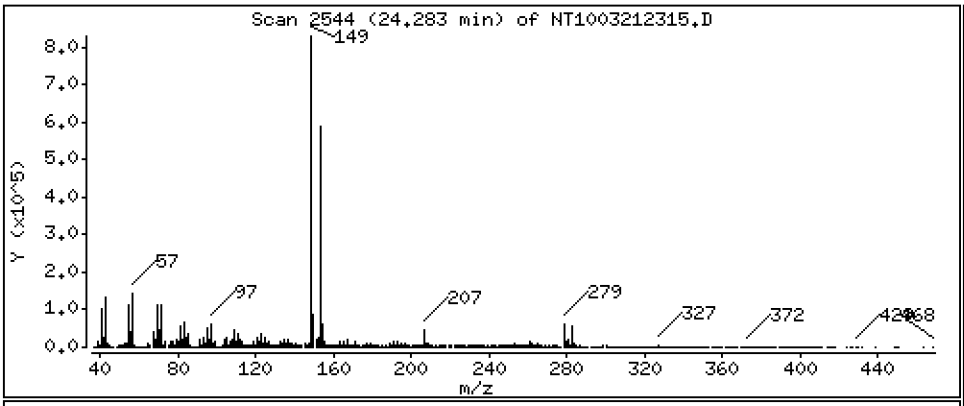
Operator: VTS

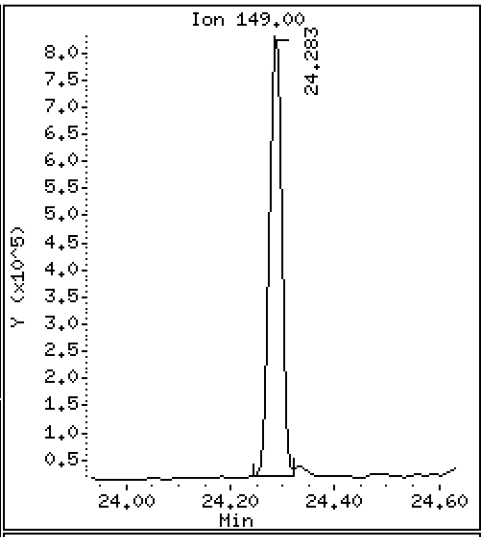
Column phase: ZB-5msi

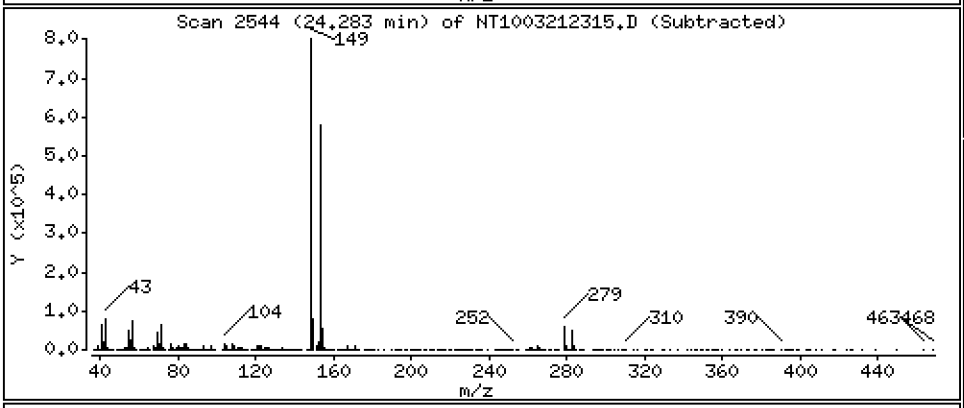
Column diameter: 0.25

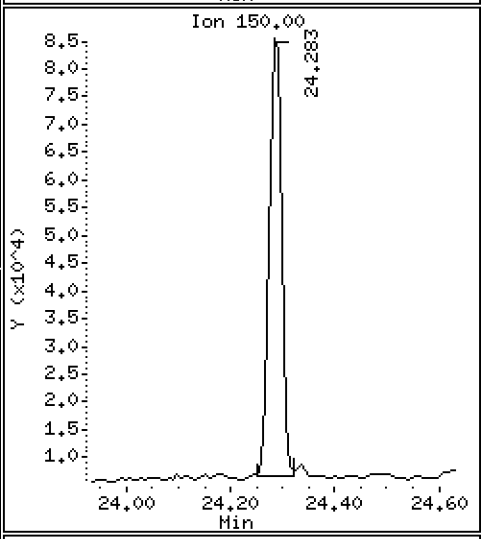
73 Di-n-octylphthalate

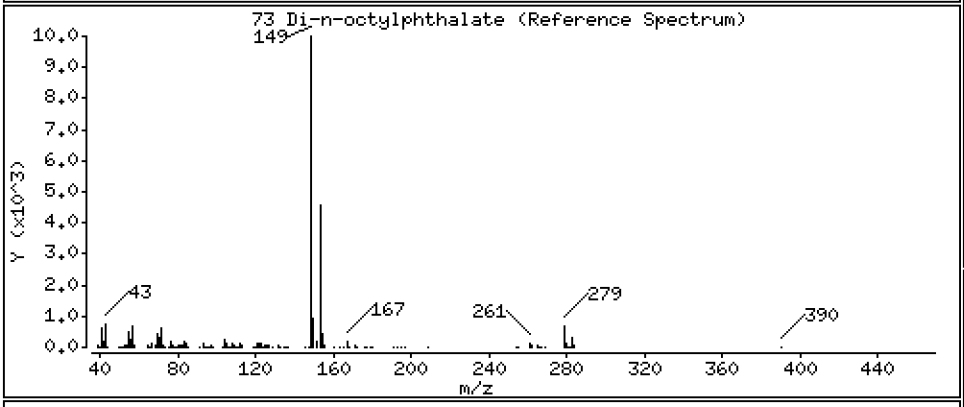
Concentration: 4.373 ug/mL

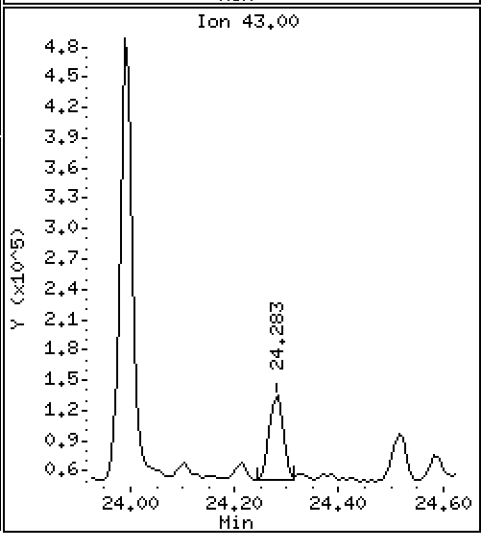


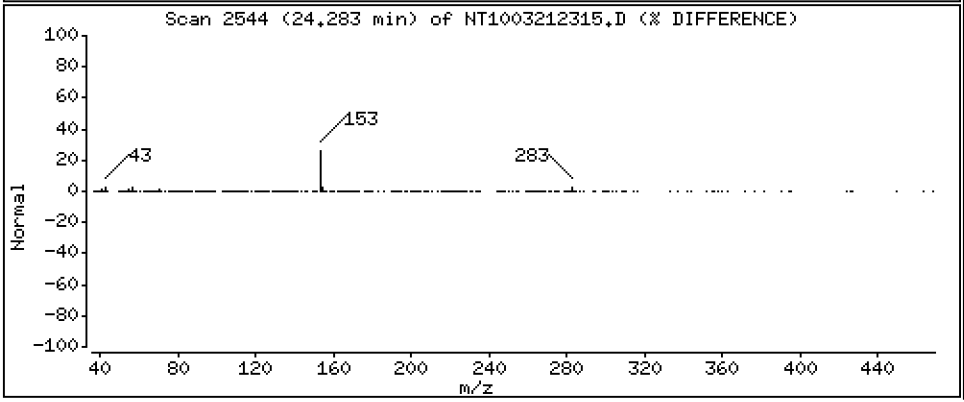












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Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS1

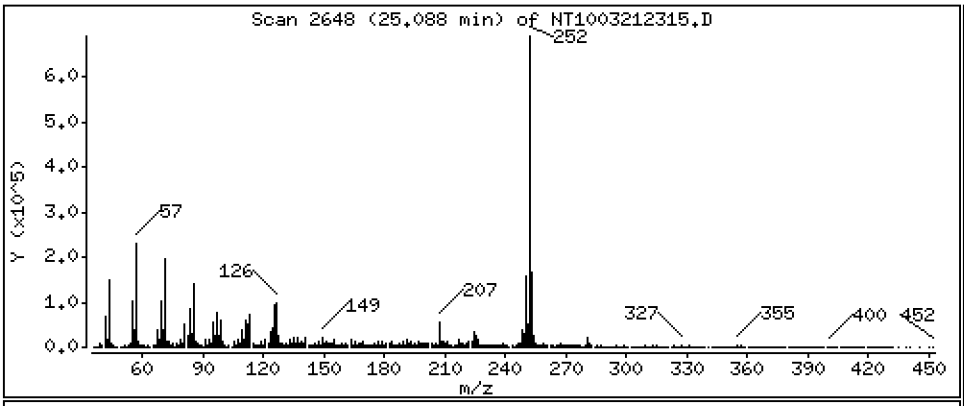
Operator: VTS

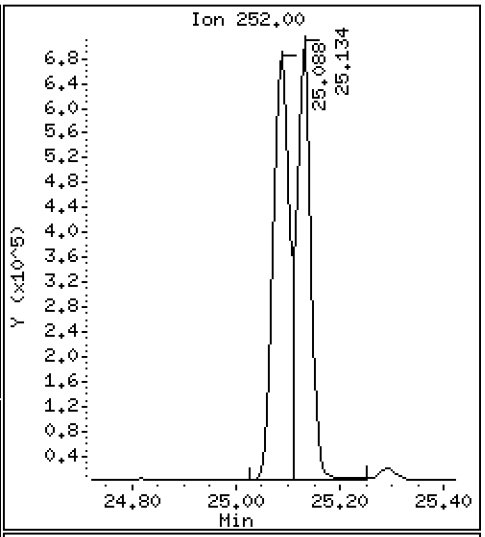
Column phase: ZB-5msi

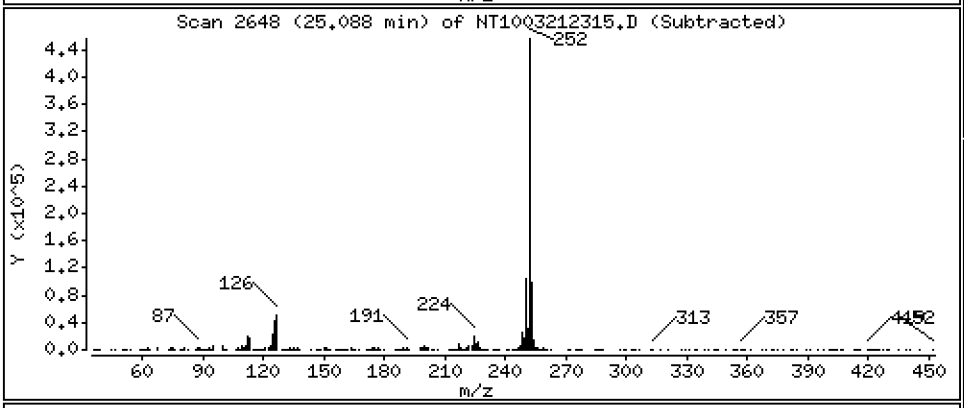
Column diameter: 0.25

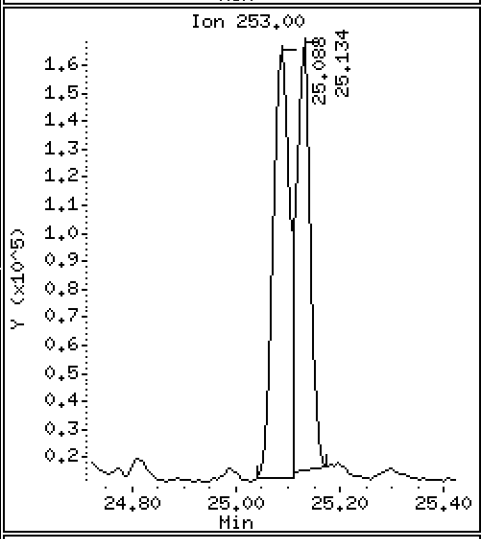
74 Benzo(b)fluoranthene

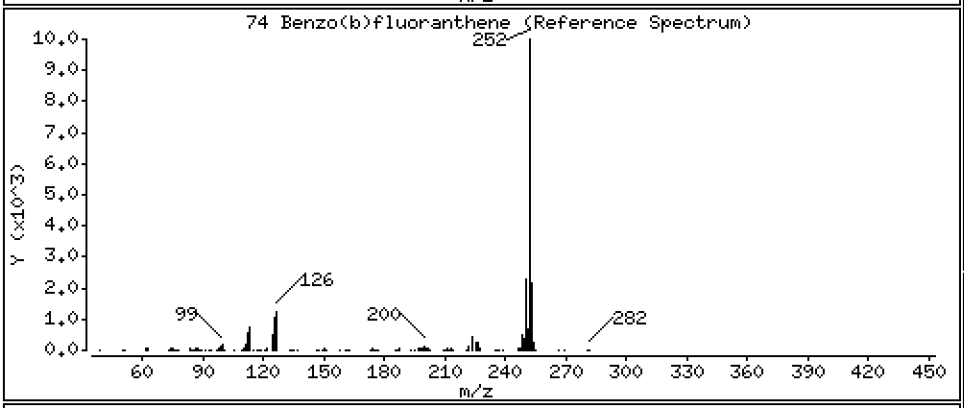
Concentration: 5.922 ug/mL

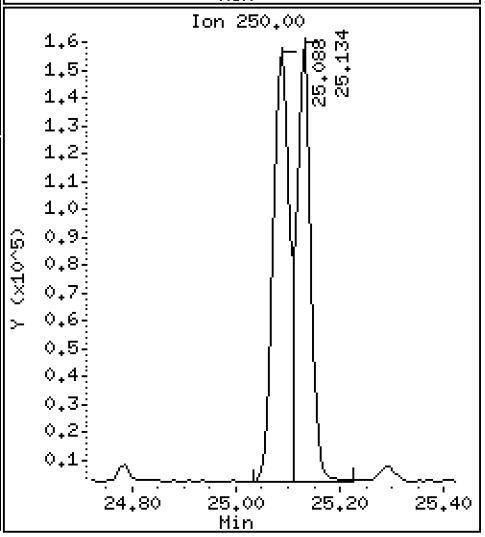


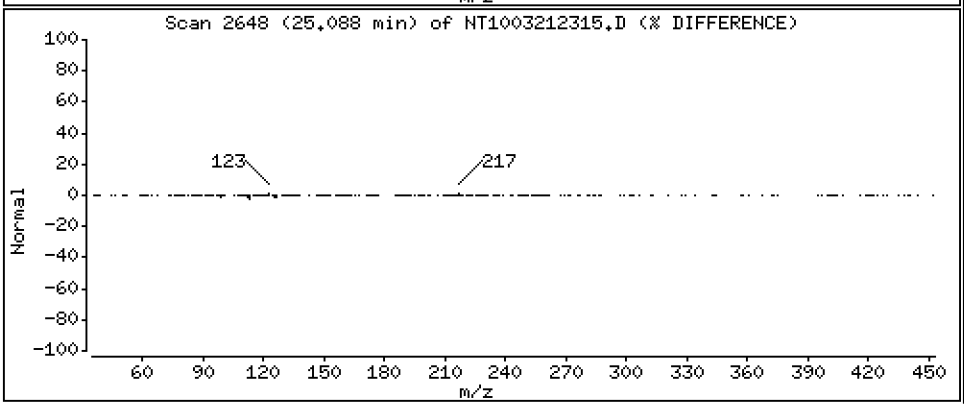












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212315.D

Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS1

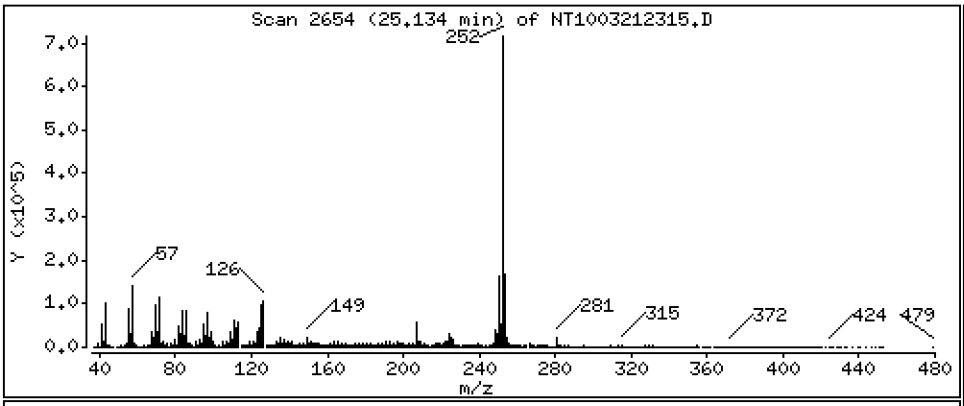
Operator: VTS

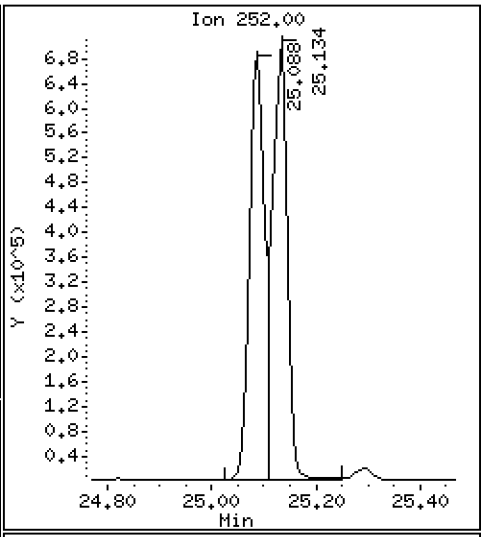
Column phase: ZB-5msi

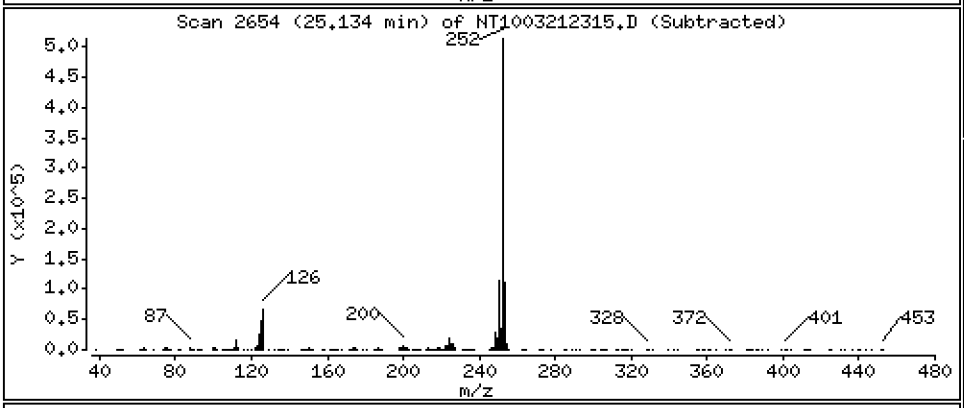
Column diameter: 0.25

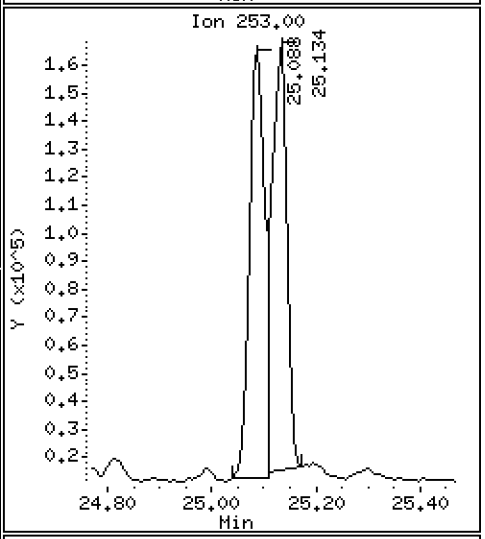
75 Benzo(k)fluoranthene

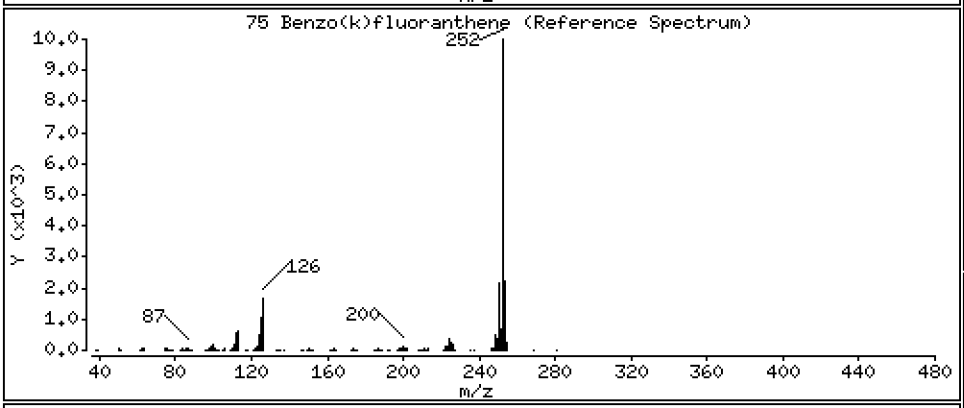
Concentration: 5.348 ug/mL

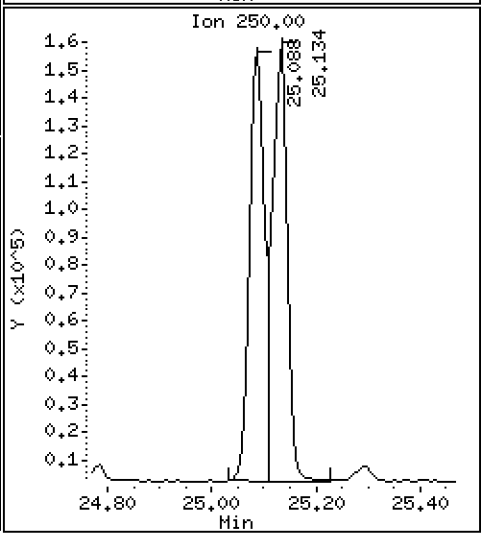


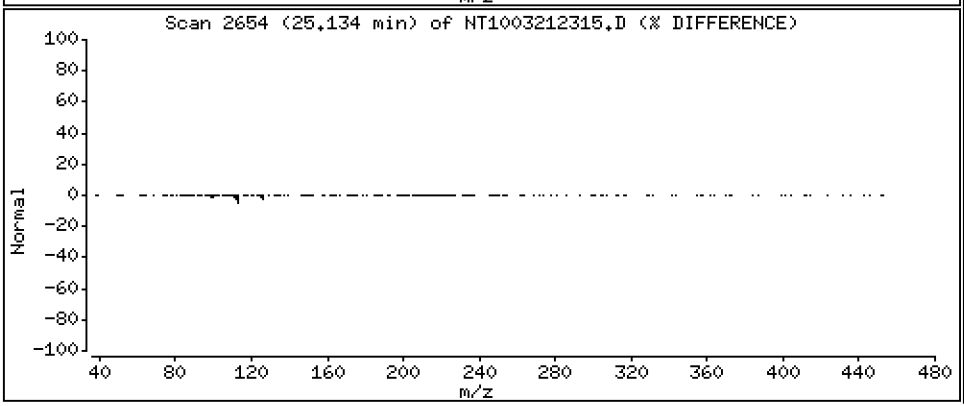












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Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS1

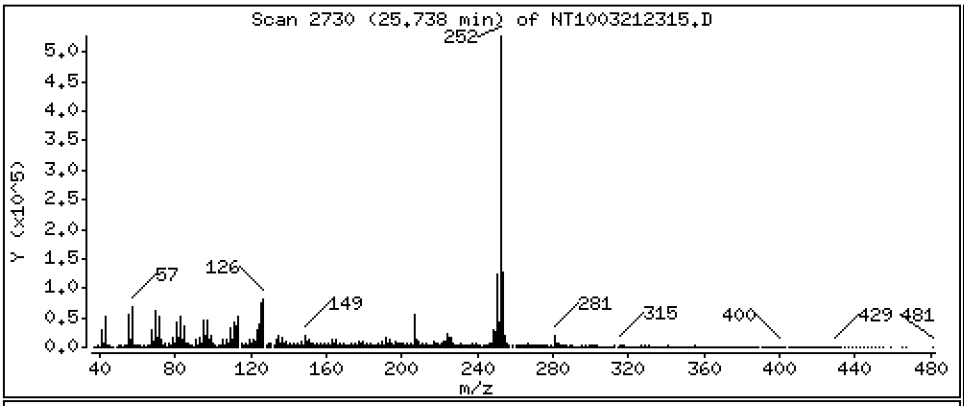
Operator: VTS

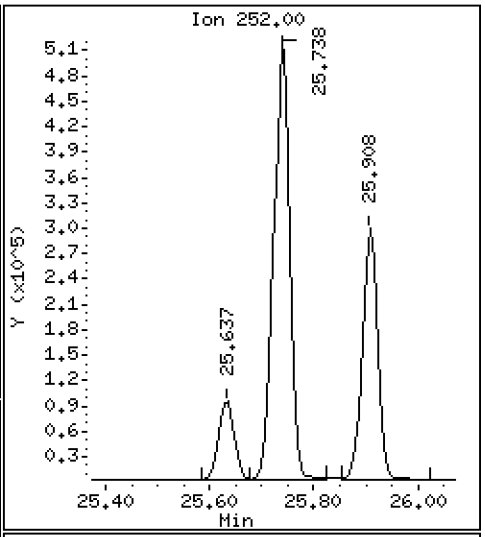
Column phase: ZB-5msi

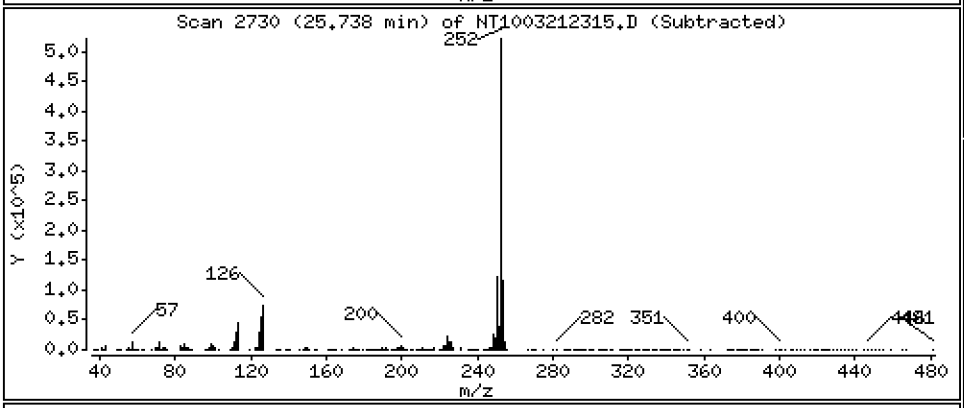
Column diameter: 0.25

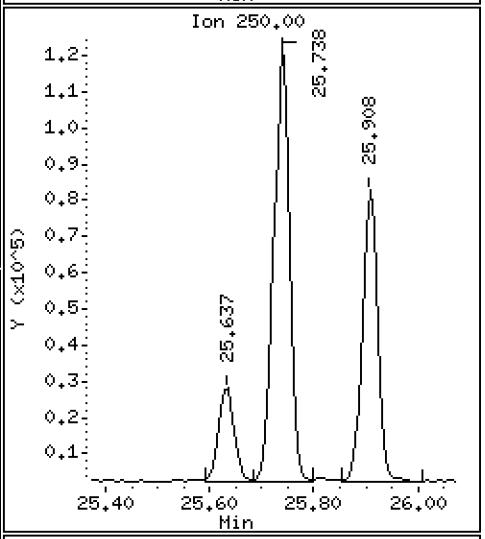
76 Benzo(a)pyrene

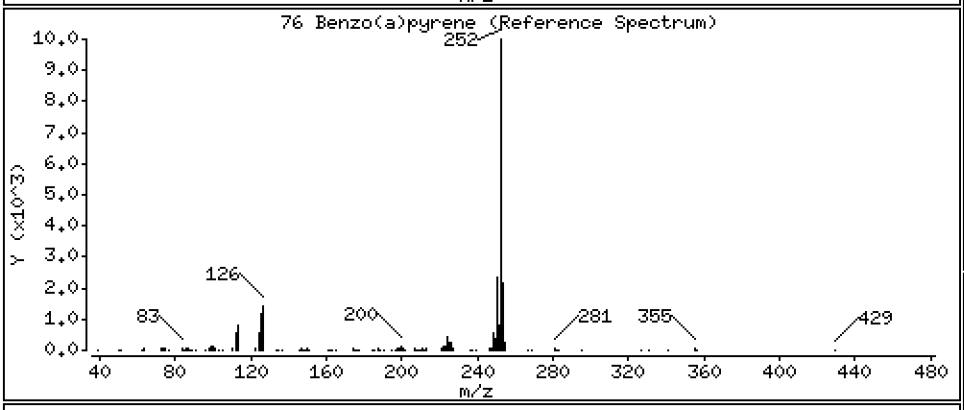
Concentration: 4.758 ug/mL

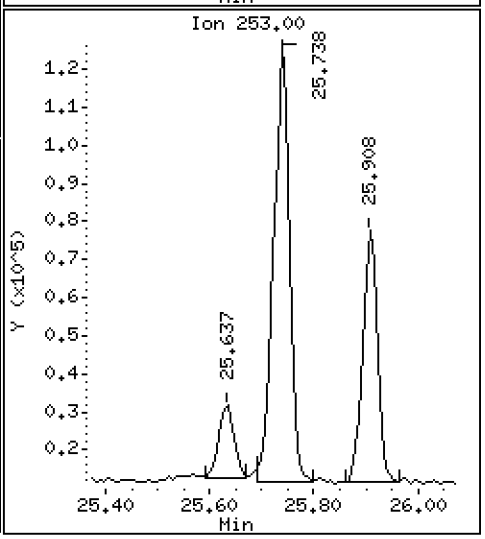


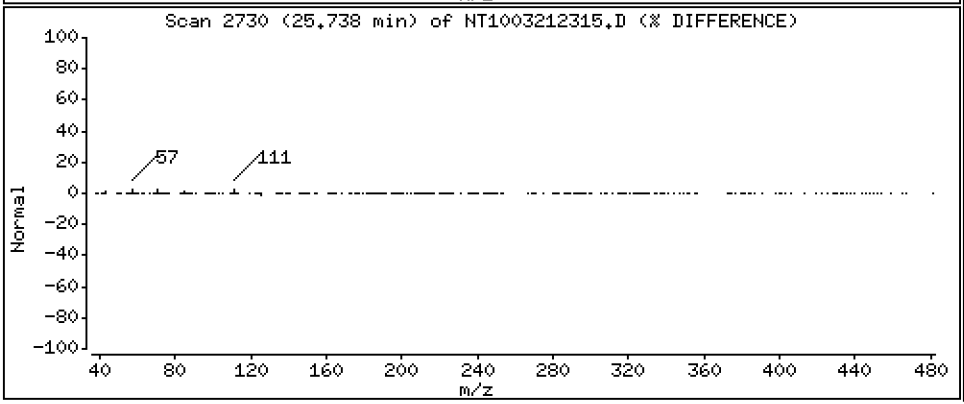












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Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS1

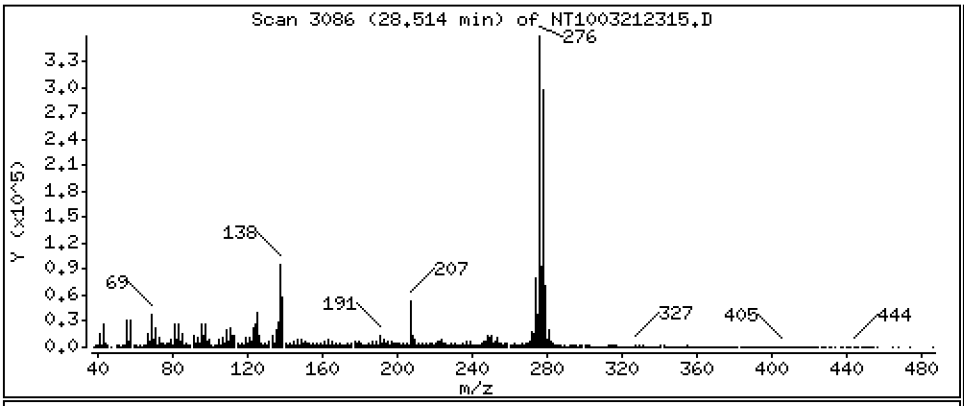
Operator: VTS

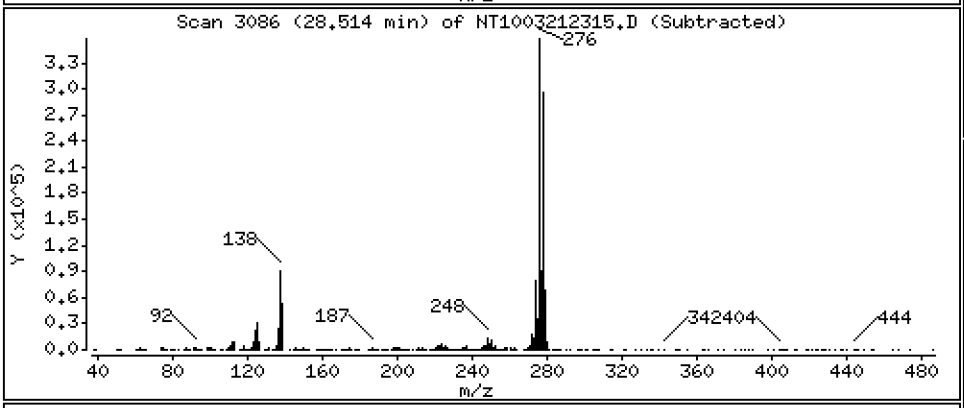
Column phase: ZB-5msi

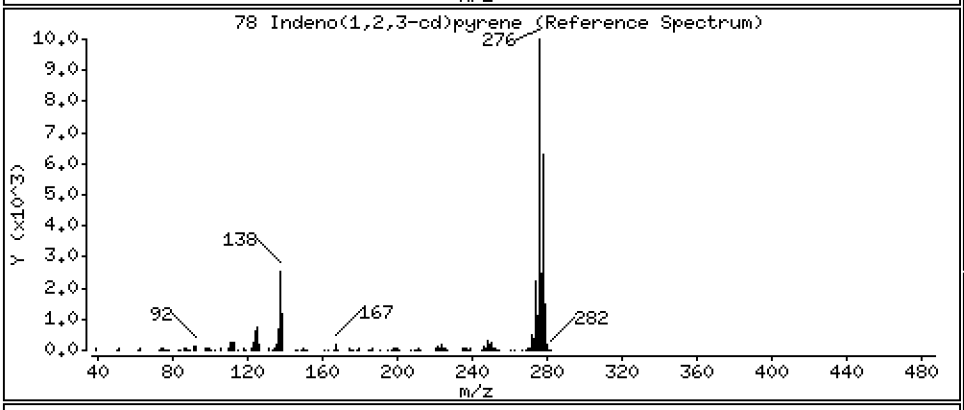
Column diameter: 0.25

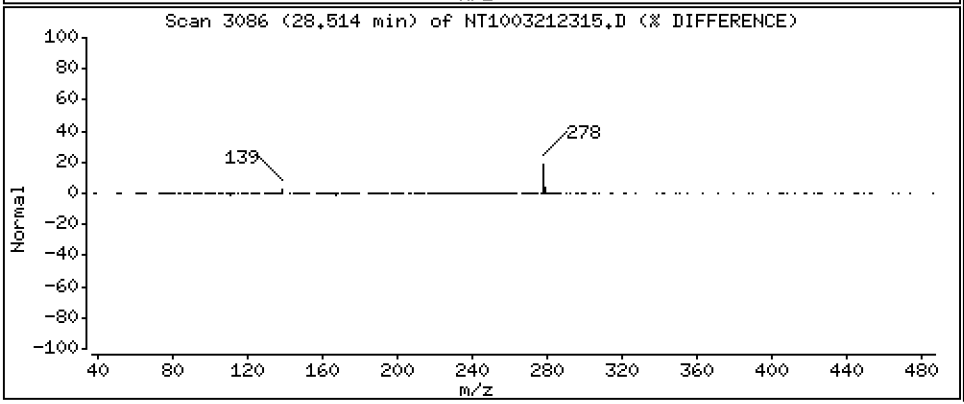
78 Indeno(1,2,3-cd)pyrene

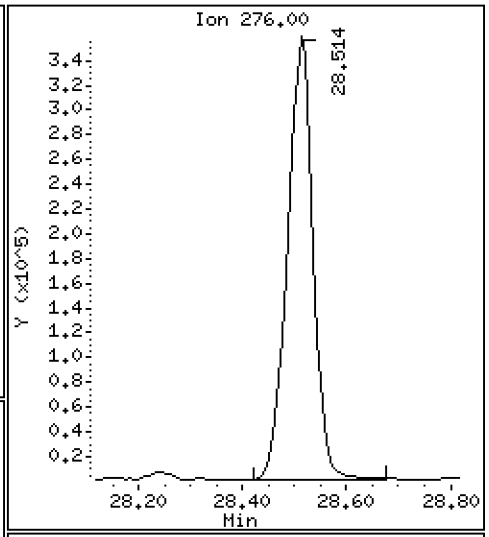
Concentration: 4.284 ug/mL

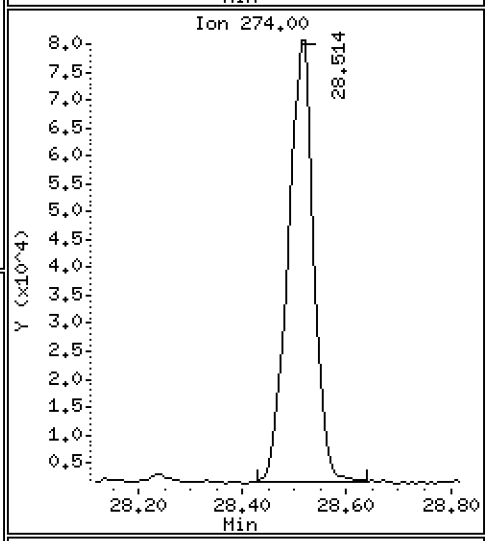


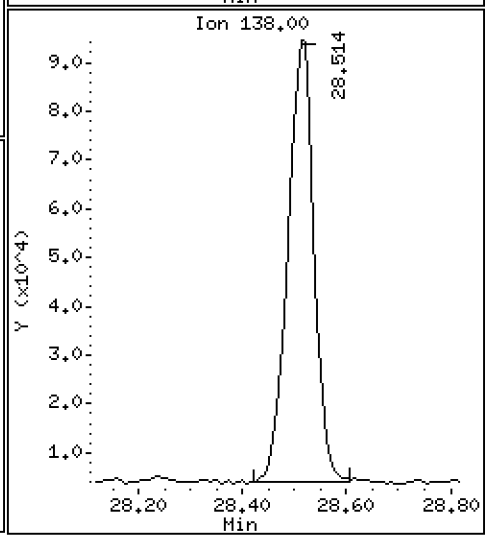












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Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS1

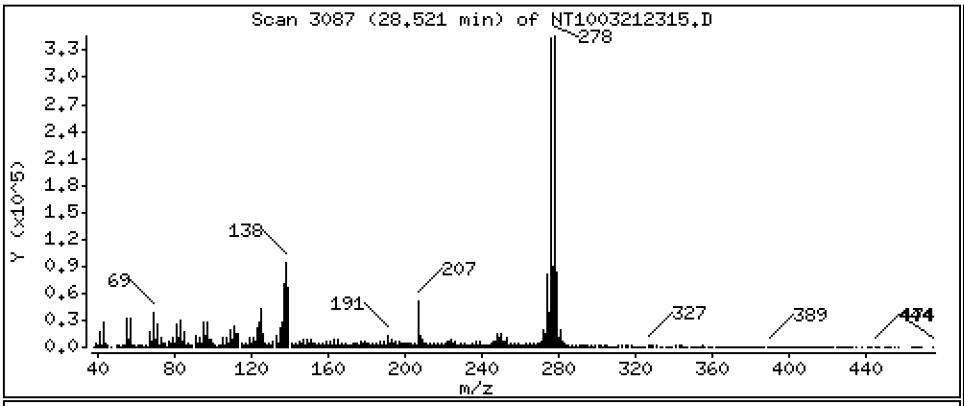
Operator: VTS

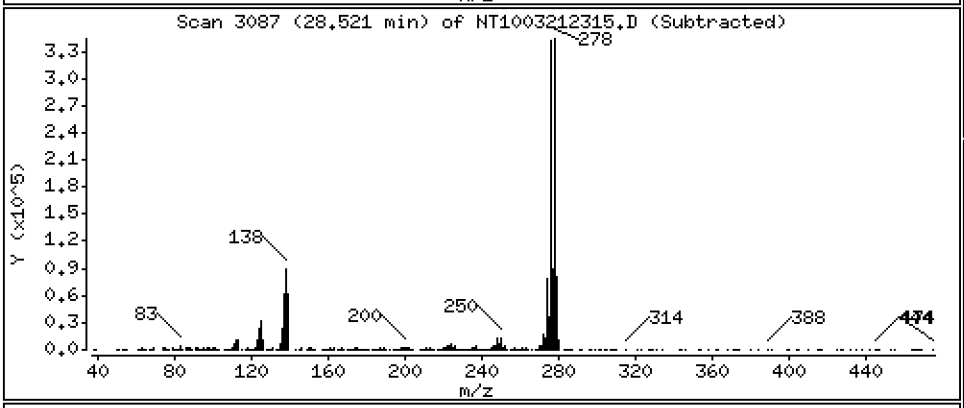
Column phase: ZB-5msi

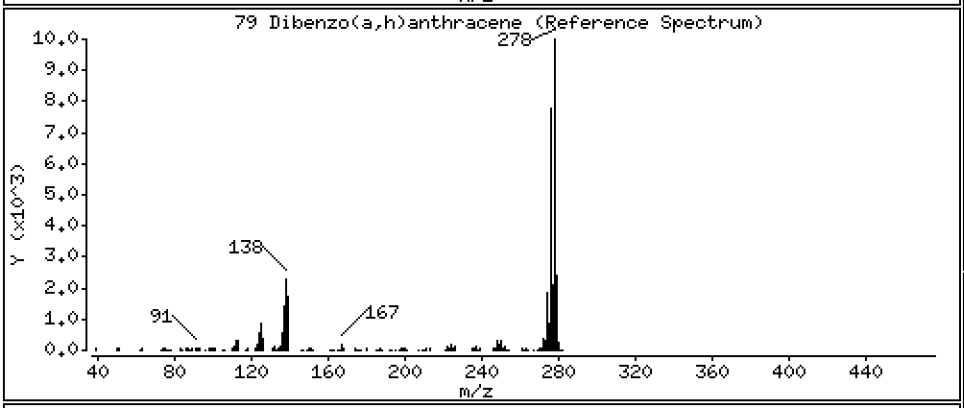
Column diameter: 0.25

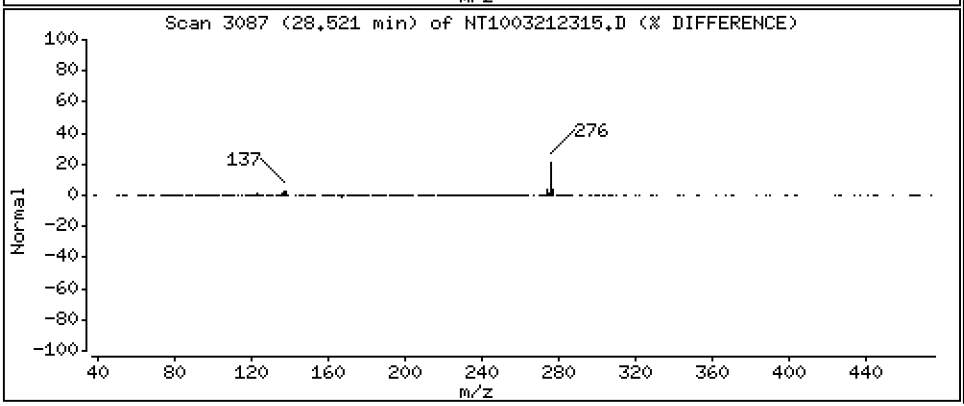
79 Dibenzo(a,h)anthracene

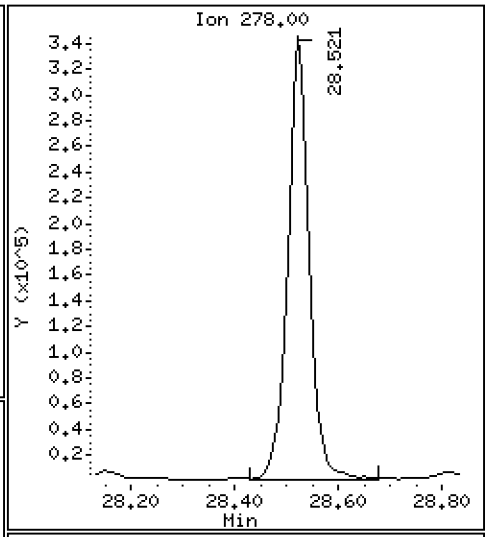
Concentration: 4.162 ug/mL

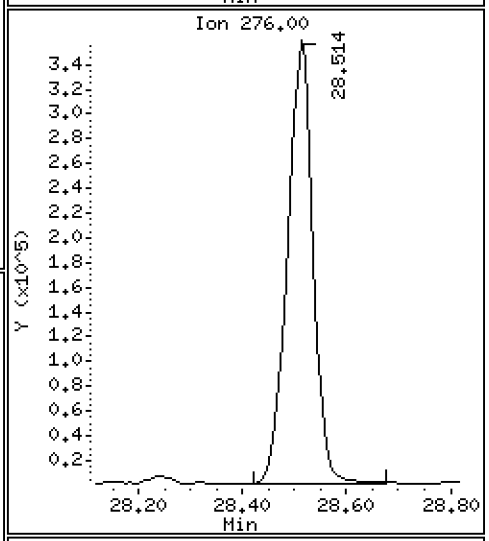


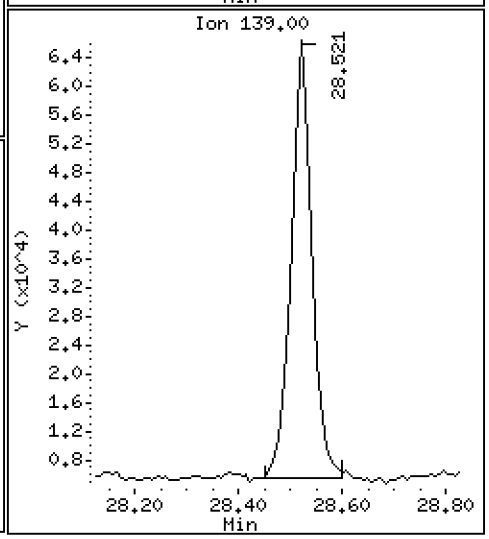












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Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS1

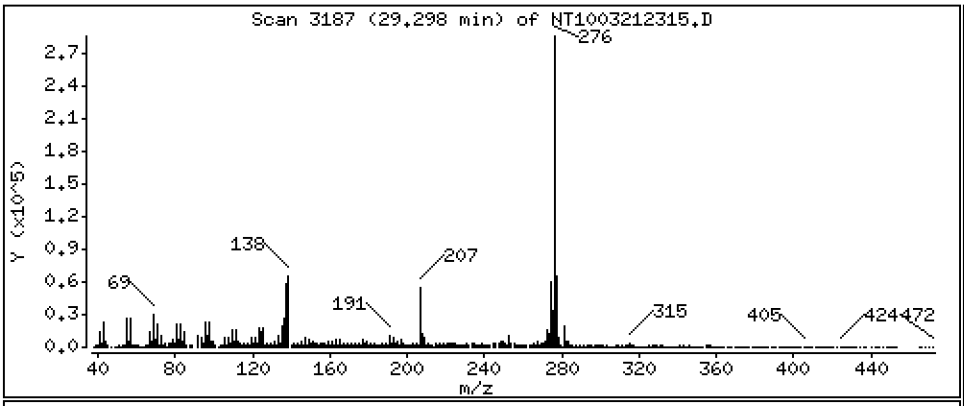
Operator: VTS

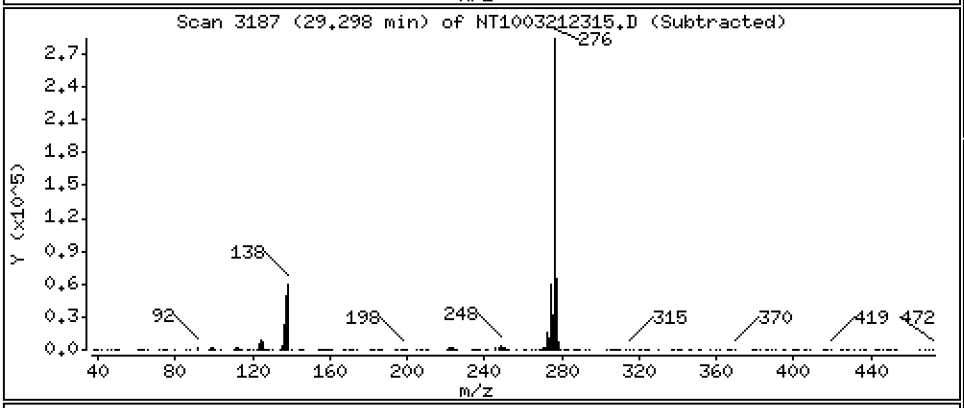
Column phase: ZB-5msi

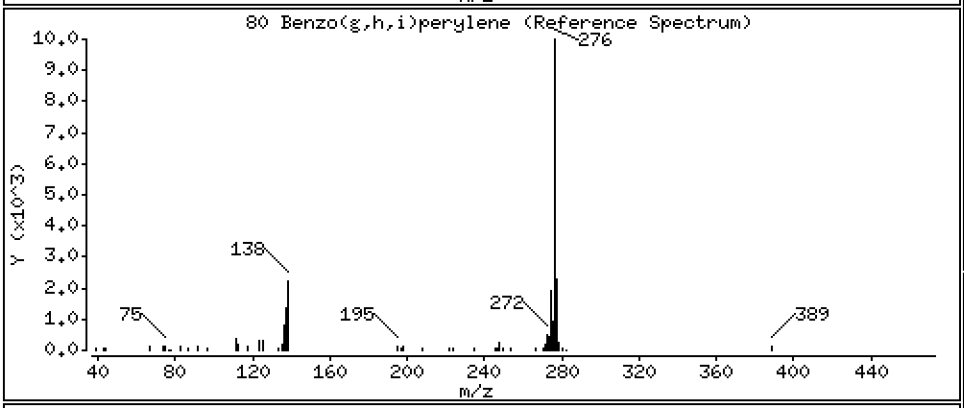
Column diameter: 0.25

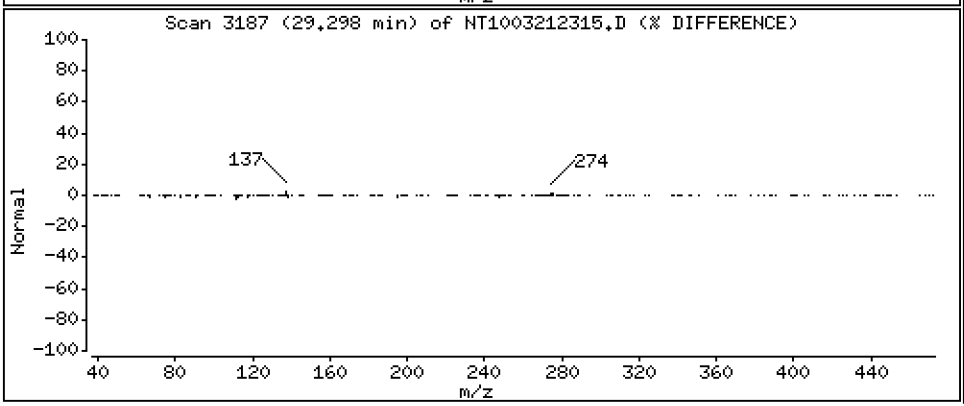
80 Benzo(g,h,i)perylene

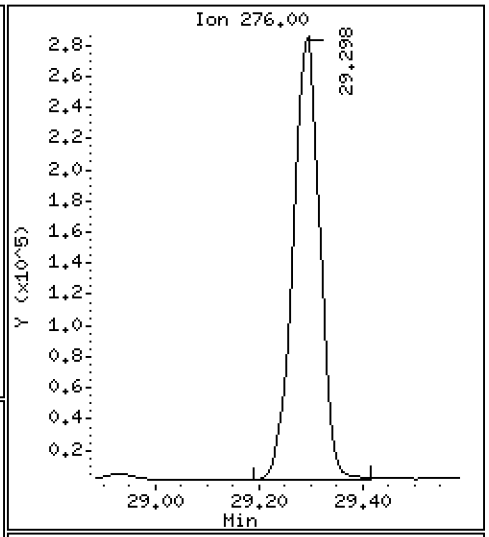
Concentration: 4.090 ug/mL

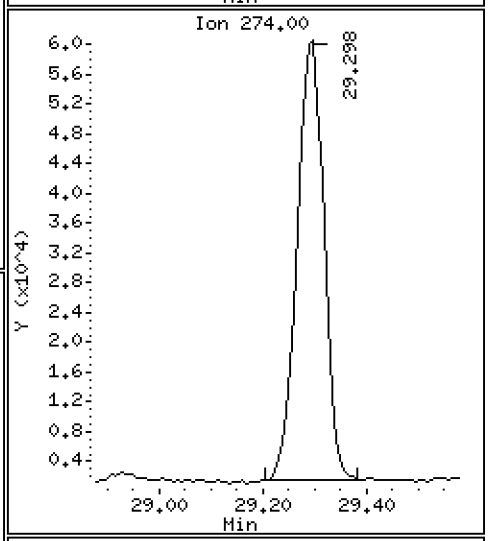


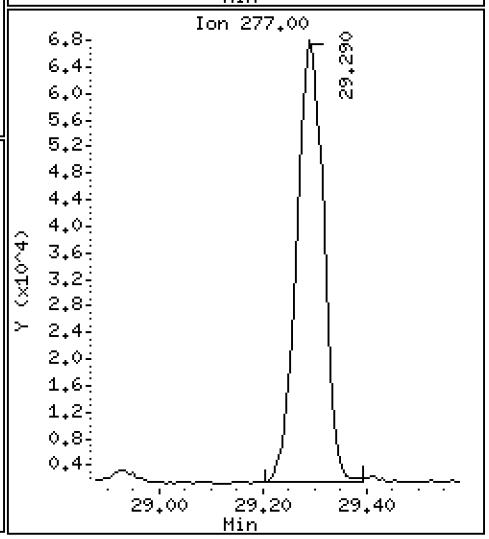












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Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS1

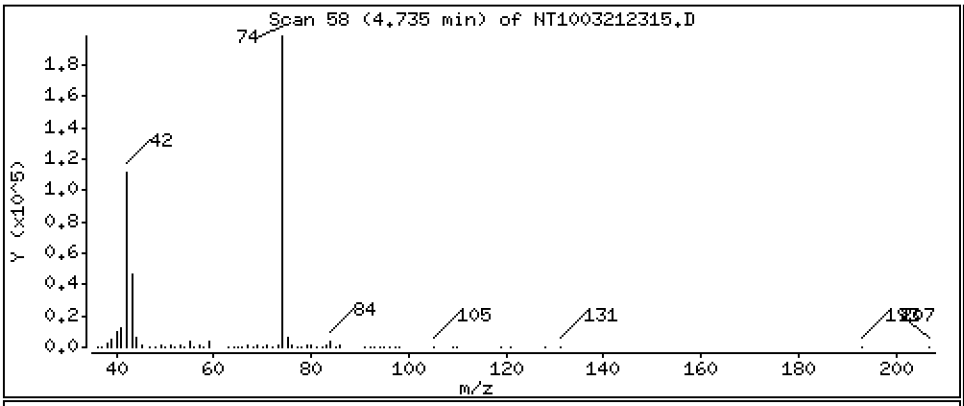
Operator: VTS

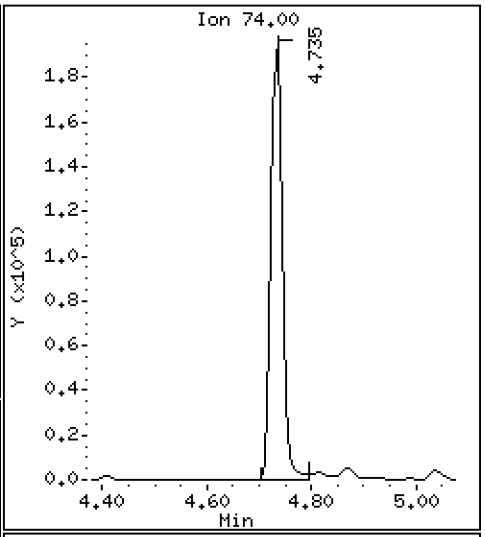
Column phase: ZB-5msi

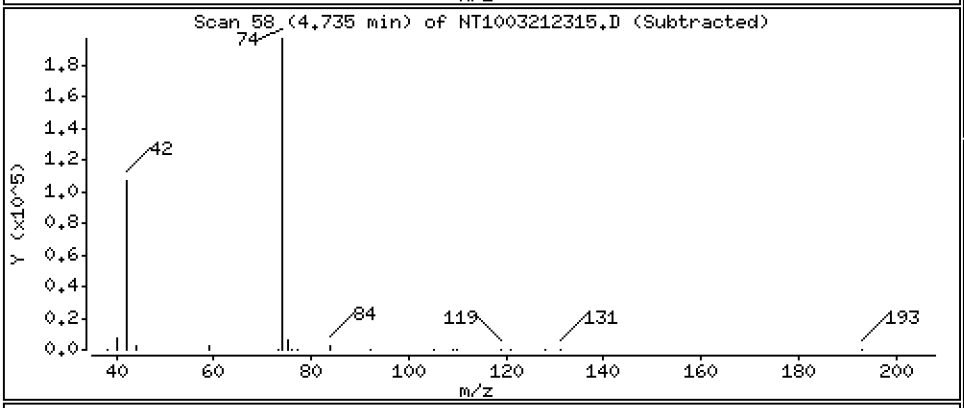
Column diameter: 0.25

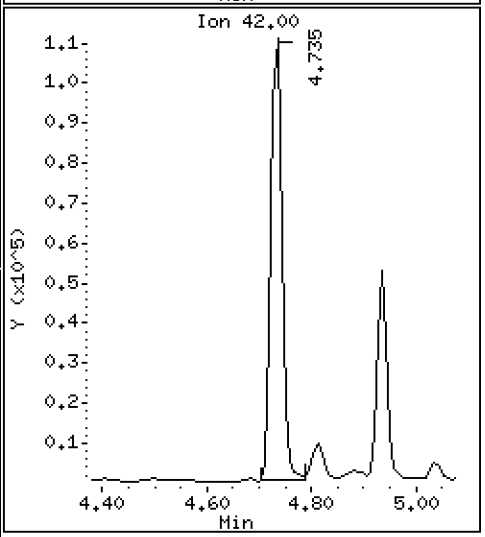
90 N-Nitrosodimethylamine

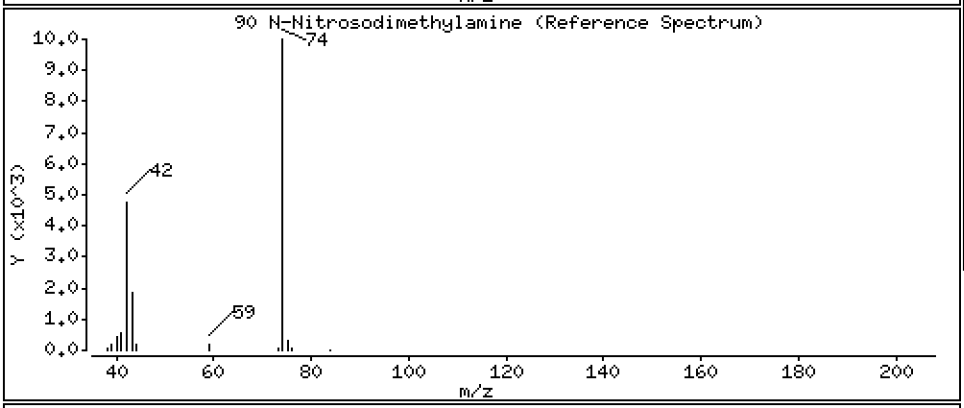
Concentration: 7.497 ug/mL

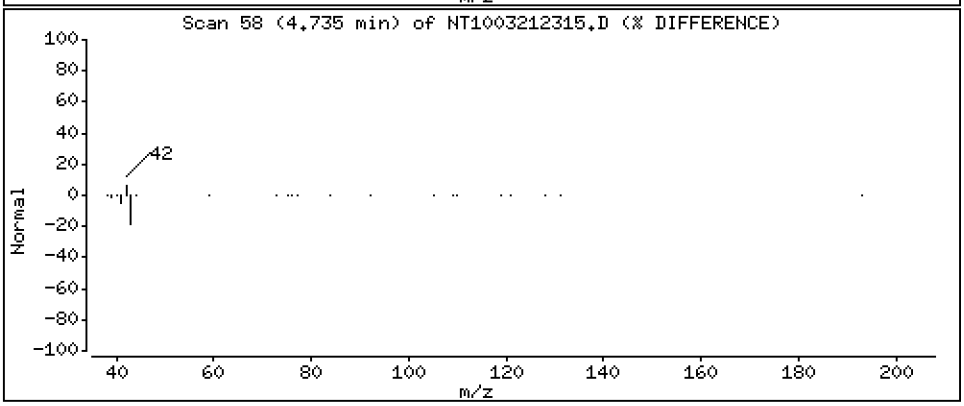












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212315.D

Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS1

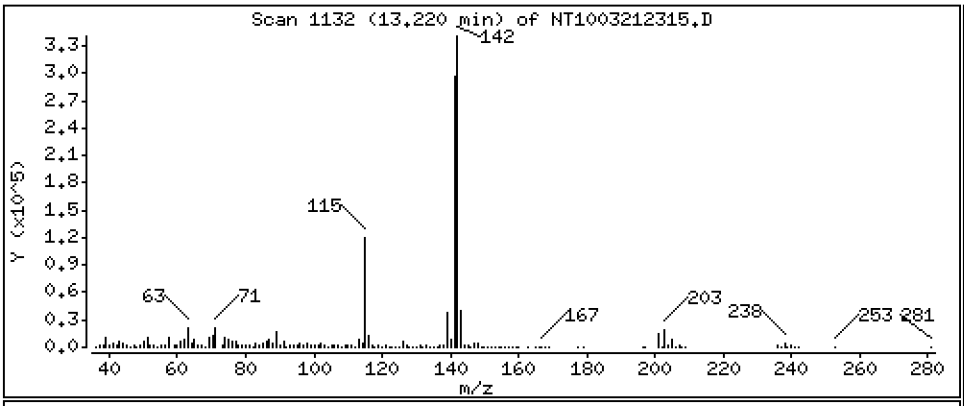
Operator: VTS

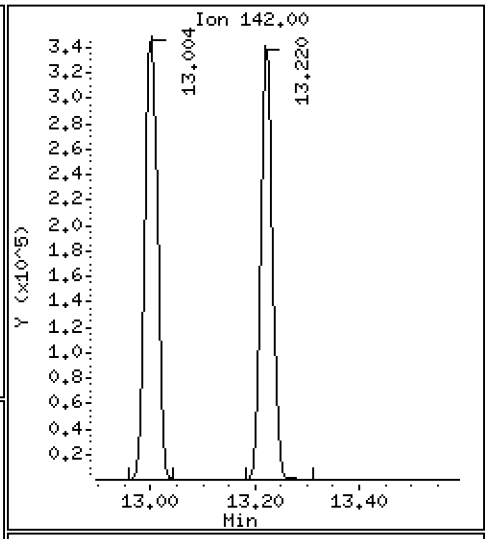
Column phase: ZB-5msi

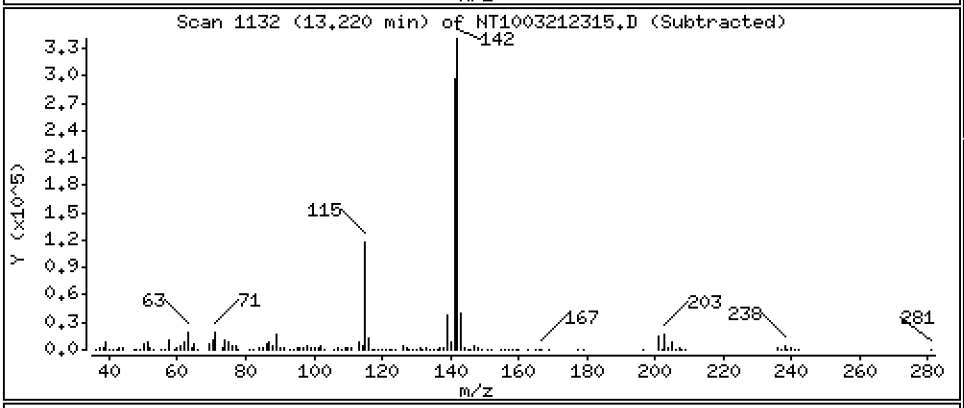
Column diameter: 0.25

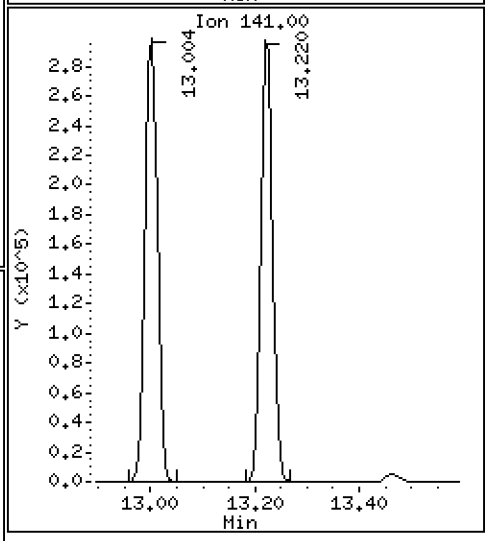
105 1-methylnaphthalene

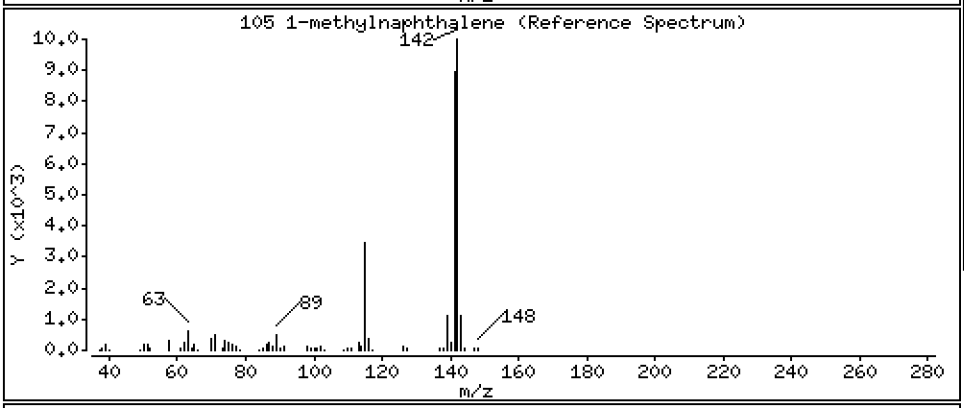
Concentration: 4.310 ug/mL

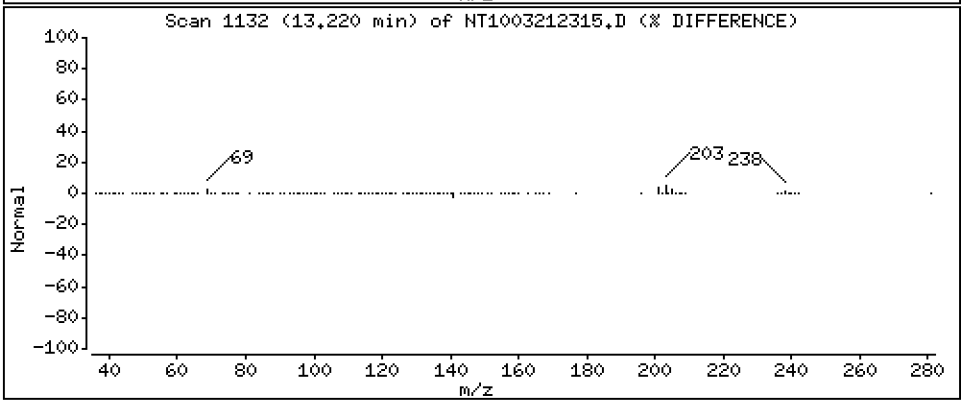












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Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS1

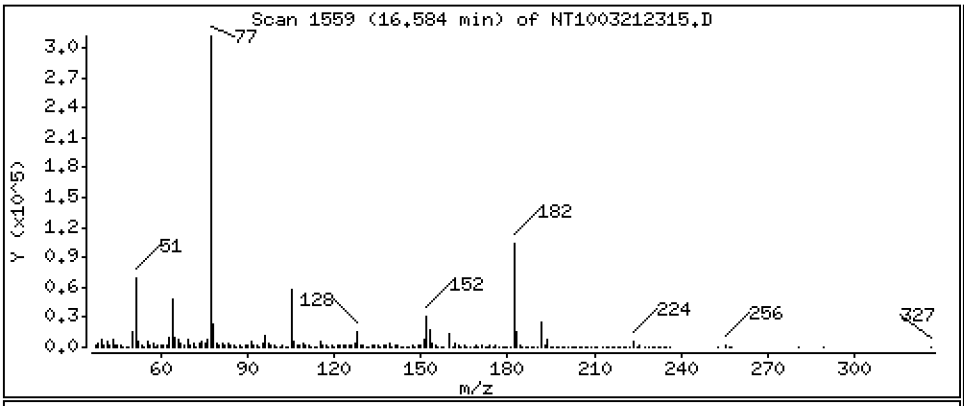
Operator: VTS

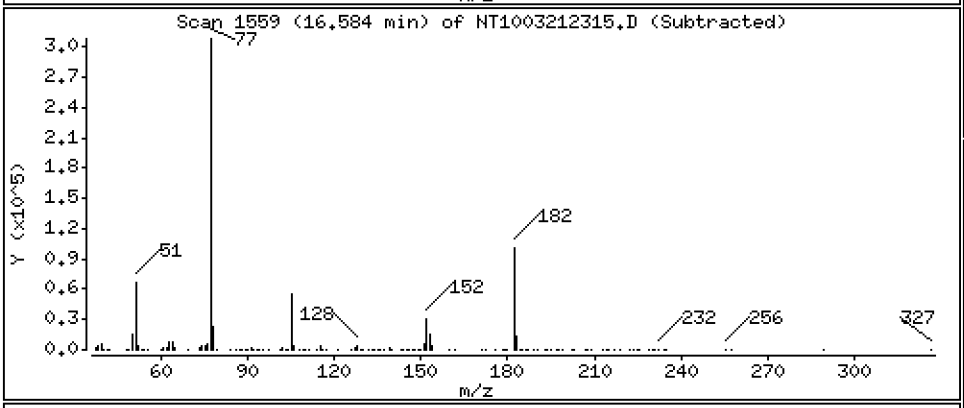
Column phase: ZB-5msi

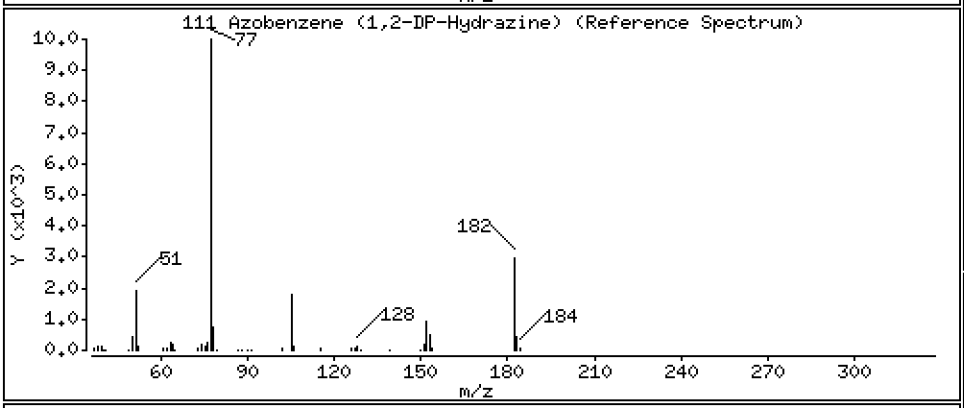
Column diameter: 0.25

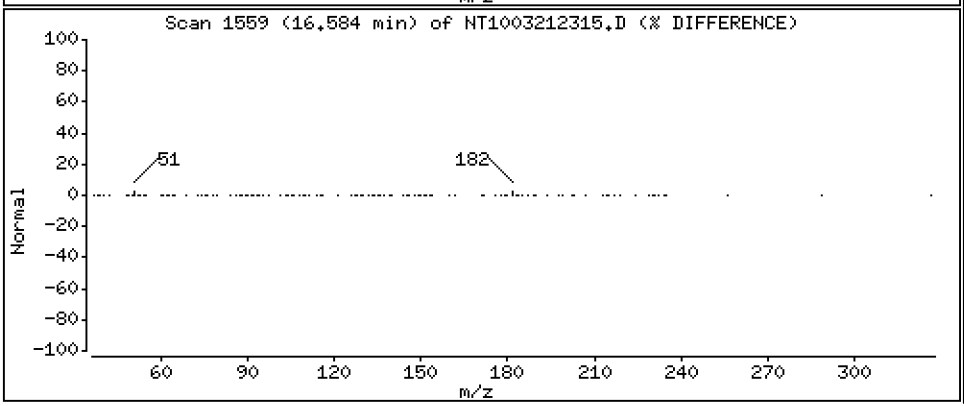
111 Azobenzene (1,2-DP-Hydrazine)

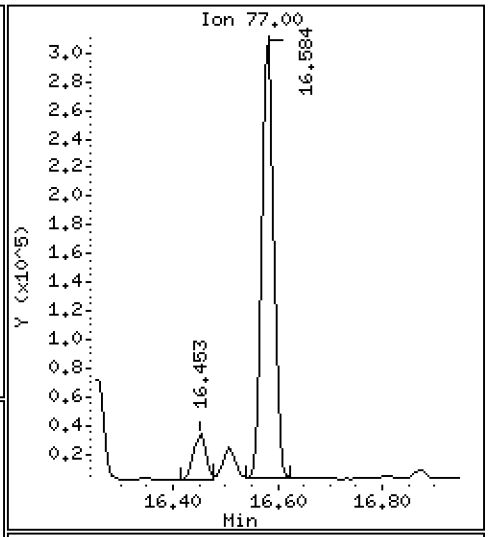
Concentration: 3.405 ug/mL

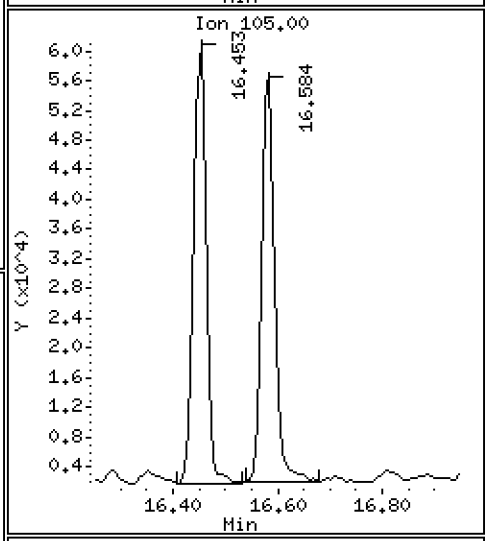


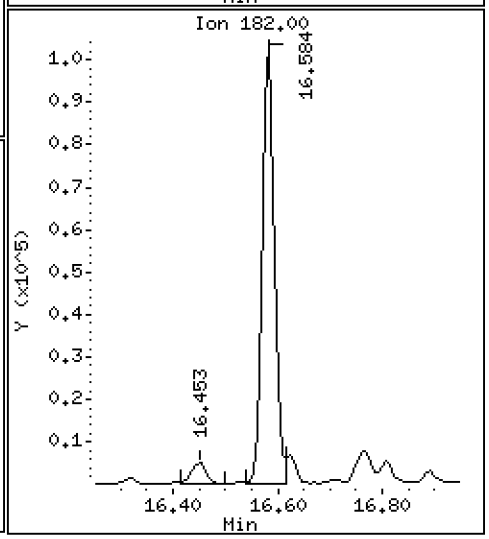












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Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS1

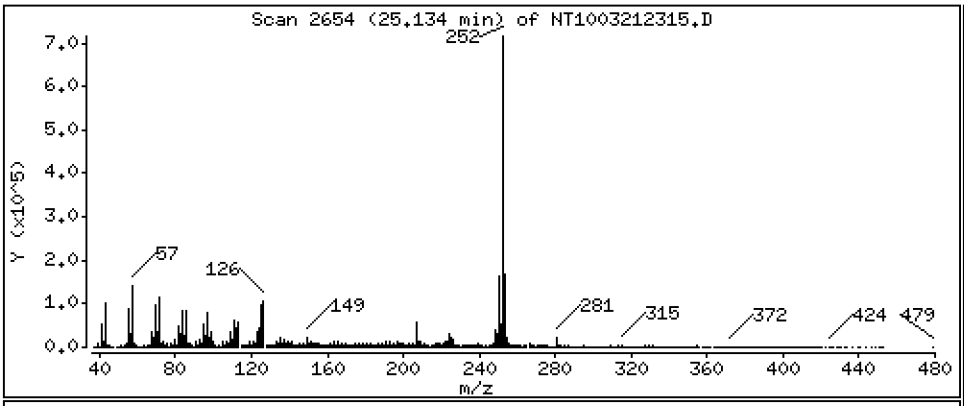
Operator: VTS

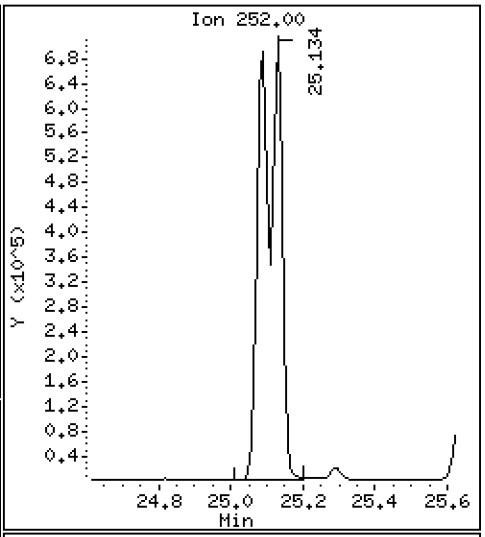
Column phase: ZB-5msi

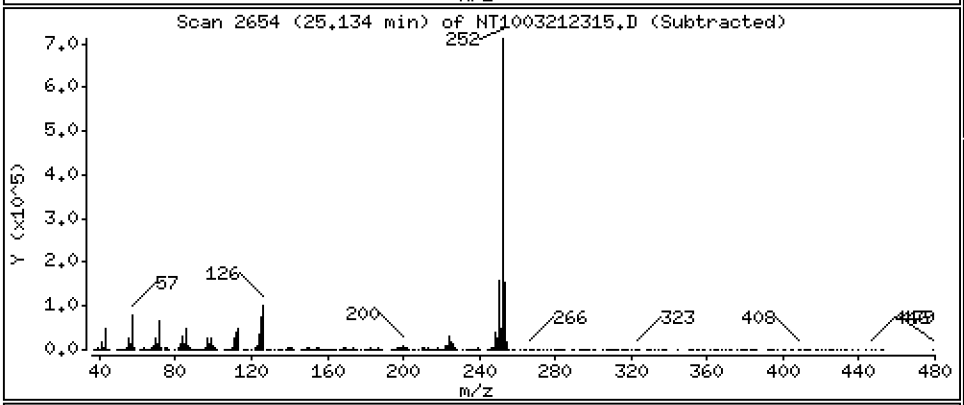
Column diameter: 0.25

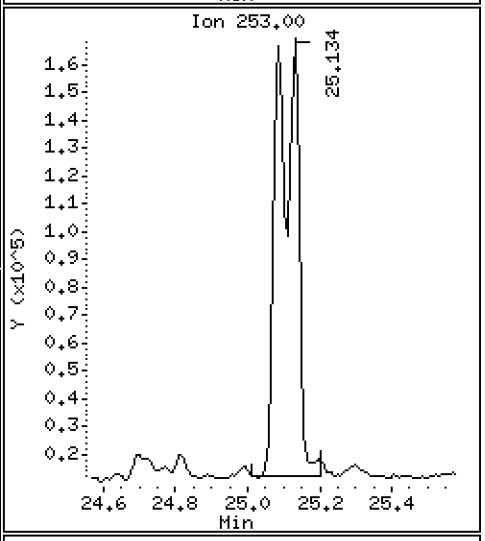
187 Total Benzofluoranthenes

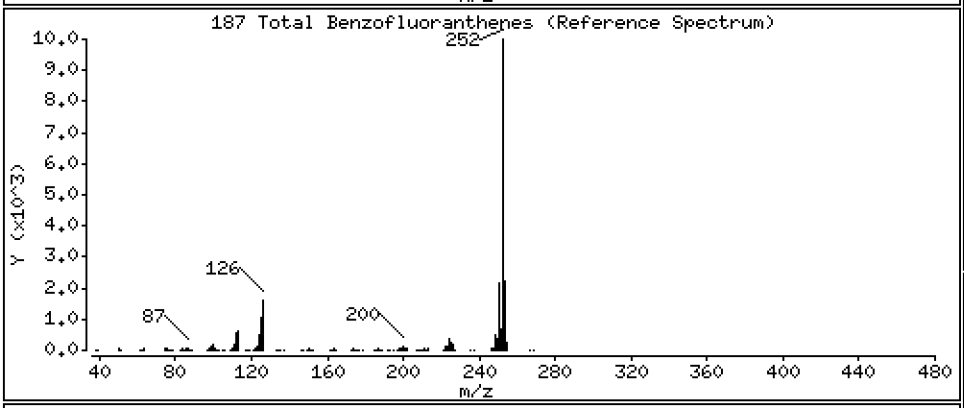
Concentration: 11.07 ug/mL

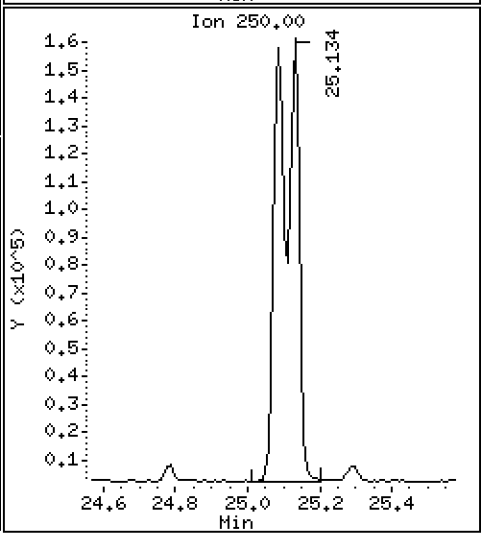


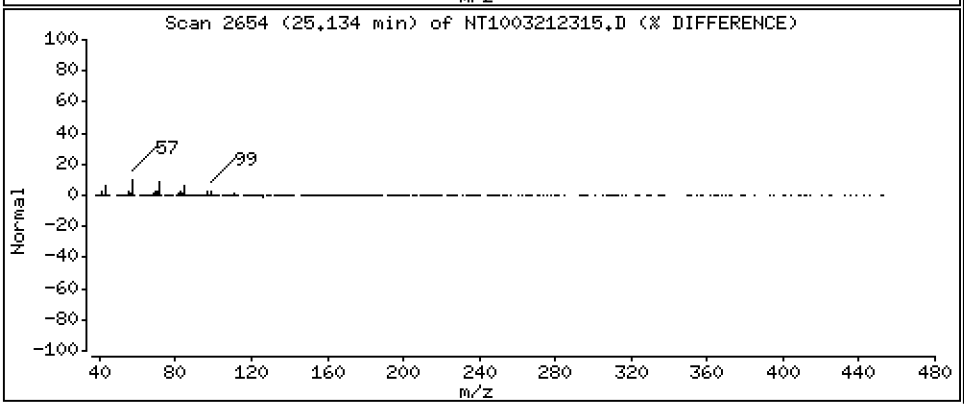












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Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS1

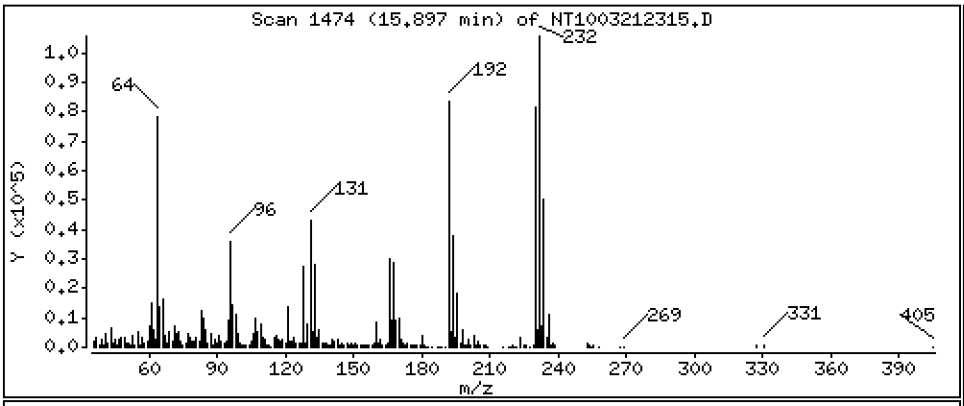
Operator: VTS

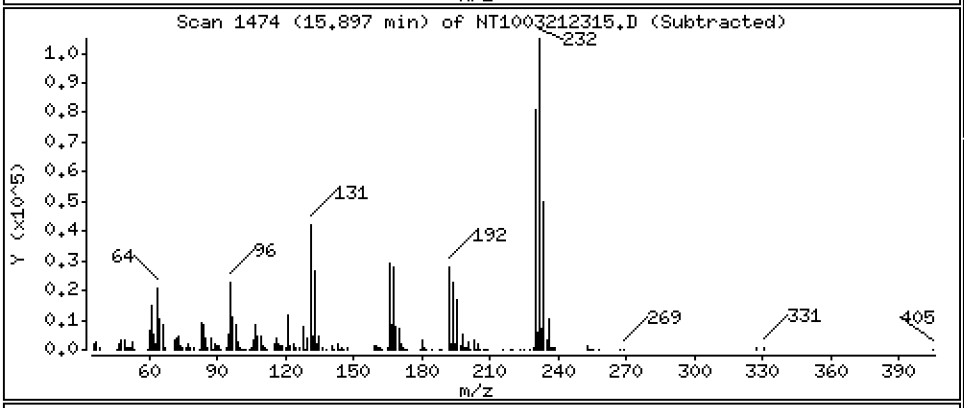
Column phase: ZB-5msi

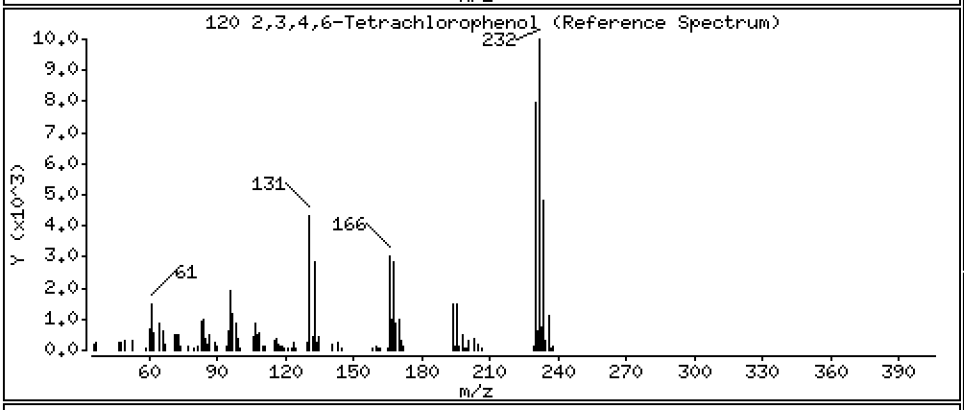
Column diameter: 0.25

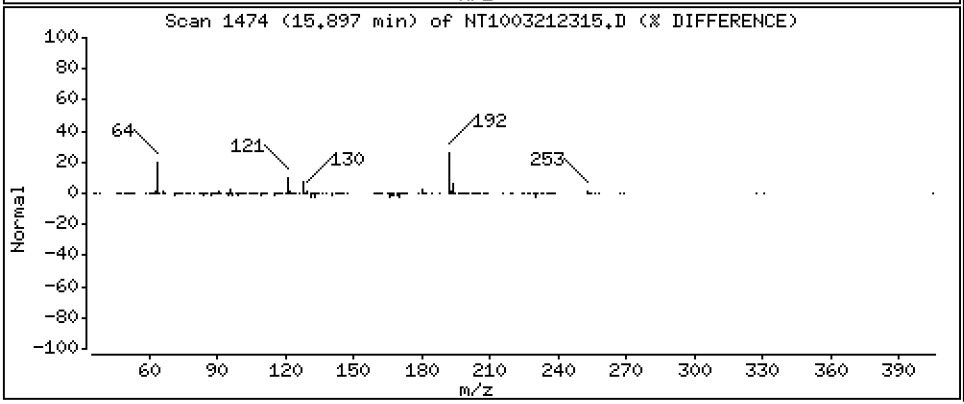
120 2,3,4,6-Tetrachlorophenol

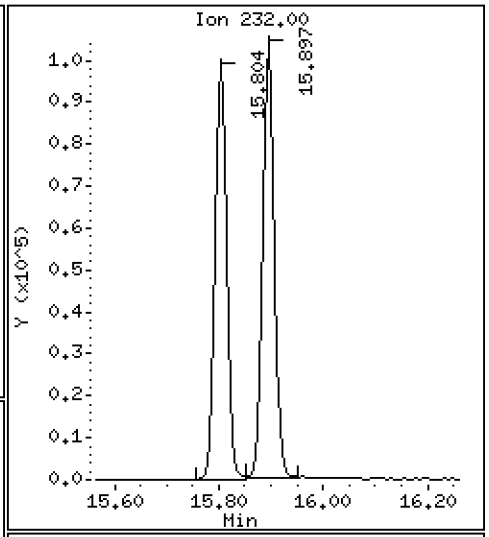
Concentration: 3.955 ug/mL

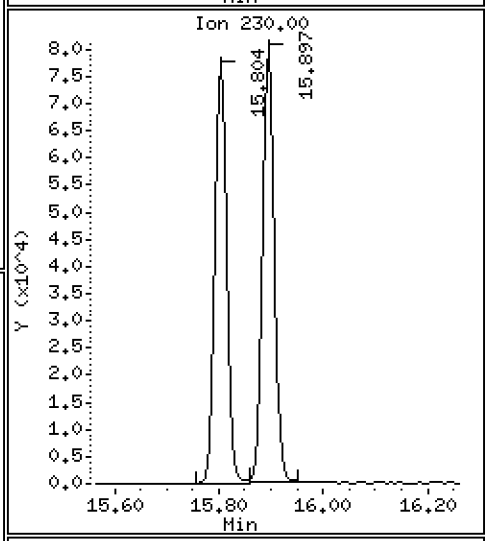


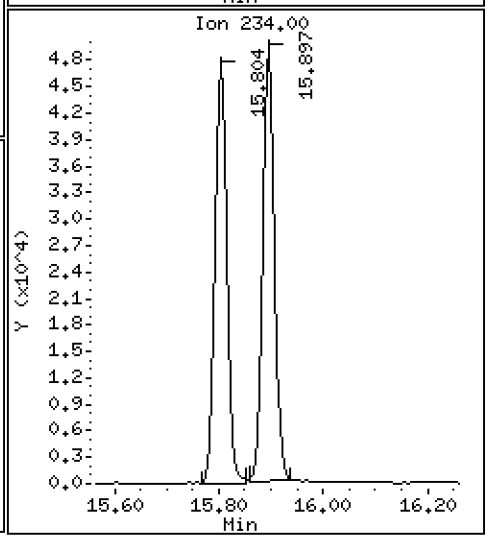












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

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Lab Smp Id: BLC0109-MS1
Inj Date : 22-MAR-2023 02:08
Operator : VTS Inst ID: nt10.i
Smp Info : BLC0109-MS1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230321.b\ABN.m
Meth Date : 29-Mar-2023 06:54 van Quant Type: ISTD
Cal Date : 16-MAR-2023 00:22 Cal File: NT10031508.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)	
$	1 2-Fluorophenol	112	6.890	6.889	(0.729)	299448	5.11108	5.111	
$	2 Phenol-d5	99	8.466	8.473	(0.895)	398897	5.19000	5.190	
	3 Phenol	94	8.489	8.497	(0.898)	297553	3.72554	3.726	
$	5 2-Chlorophenol-d4	132	8.736	8.744	(0.924)	368274	5.61120	5.611	
	4 Bis(2-Chloroethyl)ether	93	8.644	8.659	(0.914)	237995	4.01771	4.018	
	6 2-Chlorophenol	128	8.767	8.775	(0.927)	251286	3.67613	3.676	
	7 1,3-Dichlorobenzene	146	9.030	9.045	(0.955)	263993	3.65305	3.653	
*	8 1,4-Dichlorobenzene-d4	152	9.100	9.108	(1.000)	193736	4.00000		(H)
	9 1,4-Dichlorobenzene	146	9.131	9.139	(0.966)	263054	3.76809	3.768	
$	10 1,2-Dichlorobenzene-d4	152	9.457	9.465	(1.000)	162930	3.45675	3.457	
	12 1,2-Dichlorobenzene	146	9.480	9.496	(1.002)	258430	3.76149	3.761	
	11 Benzyl alcohol	108	9.372	9.379	(0.991)	175857	4.69105	4.691	
	14 2,2'-oxybis(1-Chloropropane)	121	9.667	9.682	(1.022)	86171	4.27086	4.271	
	13 2-Methylphenol	108	9.597	9.604	(1.015)	187176	3.21489	3.215	
	17 Hexachloroethane	117	10.070	10.086	(1.065)	87708	3.06216	3.062	
	16 N-Nitroso-di-n-propylamine	70	9.923	9.938	(1.049)	169327	3.68324	3.683	
	15 4-Methylphenol	108	9.869	9.876	(1.044)	226822	3.69746	3.697	
$	18 Nitrobenzene-d5	82	10.187	10.202	(0.880)	254673	3.55641	3.556	
	19 Nitrobenzene	77	10.226	10.241	(0.884)	265239	3.77428	3.774	
	20 Isophorone	82	10.668	10.683	(0.922)	479894	5.33803	5.338	
	21 2-Nitrophenol	139	10.850	10.858	(0.938)	156356	4.55353	4.554	
	22 2,4-Dimethylphenol	107	10.901	10.918	(0.942)	205175	3.17863	3.179	
	23 Bis(2-Chloroethoxy)methane	93	11.096	11.113	(0.959)	274265	4.56714	4.567	
	24 Benzoic acid	105	11.105	11.113	(0.960)	634845	17.0192	17.02	
	25 2,4-Dichlorophenol	162	11.308	11.316	(0.977)	737365	14.2751	14.28	
	26 1,2,4-Trichlorobenzene	180	11.487	11.502	(0.993)	234537	3.86809	3.868	
*	27 Naphthalene-d8	136	11.572	11.587	(1.000)	709454	4.00000		
	28 Naphthalene	128	11.611	11.626	(1.003)	749725	3.98907	3.989	
	29 4-Chloroaniline	127	Compound Not Detected.						
	30 Hexachlorobutadiene	225	11.974	11.989	(1.035)	146796	4.13185	4.132	
	31 4-Chloro-3-methylphenol	107	12.709	12.716	(1.098)	723140	12.9321	12.93	
	32 2-Methylnaphthalene	142	13.003	13.018	(1.124)	554652	4.08938	4.089	
	33 Hexachlorocyclopentadiene	237	13.467	13.483	(0.888)	69055	1.86396	1.864	

			QUANT SIG					CONCENTRATIONS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
	34	2,4,6-Trichlorophenol	196	13.622	13.637	(0.898)	561592	14.1944	14.19
	35	2,4,5-Trichlorophenol	196	13.700	13.707	(0.903)	605278	13.7683	13.77
$	36	2-Fluorobiphenyl	172	13.777	13.800	(0.908)	596906	3.76957	3.770
	37	2-Chloronaphthalene	162	13.986	14.009	(0.922)	522866	4.07800	4.078
	38	2-Nitroaniline	65	14.249	14.272	(0.939)	372557	10.3442	10.34
	39	Dimethylphthalate	163	14.683	14.698	(0.968)	583807	4.48940	4.489
	40	Acenaphthylene	152	14.861	14.876	(0.980)	779167	3.89990	3.900
	41	2,6-Dinitrotoluene	165	14.822	14.837	(0.977)	394598	14.0467	14.05
*	42	Acenaphthene-d10	164	15.170	15.185	(1.000)	400302	4.00000	
	43	3-Nitroaniline	138	15.116	15.116	(0.996)	18188	0.57362	0.5736(M)
	44	Acenaphthene	153	15.232	15.247	(1.004)	509188	4.12539	4.125
	45	2,4-Dinitrophenol	184	15.301	15.324	(1.009)	24742	1.45548	1.455
	46	Dibenzofuran	168	15.557	15.572	(1.025)	769887	4.22985	4.230
	47	4-Nitrophenol	109	15.433	15.432	(1.017)	201778	10.1824	10.18
	48	2,4-Dinitrotoluene	165	15.626	15.641	(1.030)	537361	12.9139	12.91
	50	Diethylphthalate	149	16.129	16.144	(1.063)	608620	4.77011	4.770
	49	Fluorene	166	16.268	16.283	(1.072)	630844	4.40549	4.405
	51	4-Chlorophenyl-phenylether	204	16.260	16.275	(1.072)	309661	4.54758	4.548
	52	4-Nitroaniline	138	16.368	16.375	(1.079)	61166	2.14059	2.141
	53	4,6-Dinitro-2-methylphenol	198	16.453	16.468	(0.904)	250566	10.8431	10.84
	54	N-Nitrosodiphenylamine	169	16.507	16.522	(0.907)	342984	3.39372	3.394
$	55	2,4,6-Tribromophenol	330	16.800	16.815	(1.107)	144375	7.74412	7.744
	56	4-Bromophenyl-phenylether	248	17.262	17.270	(0.949)	205958	4.87135	4.871
	57	Hexachlorobenzene	284	17.572	17.587	(0.966)	198462	4.47716	4.477
	58	Pentachlorophenol	266	17.928	17.943	(0.986)	416892	15.4223	15.42
*	59	Phenanthrene-d10	188	18.191	18.206	(1.000)	755922	4.00000	
	60	Phenanthrene	178	18.237	18.252	(1.003)	971513	4.71326	4.713
	61	Anthracene	178	18.330	18.338	(1.008)	764226	3.86508	3.865
	62	Carbazole	167	18.663	18.670	(1.026)	747945	4.22137	4.221
	63	Di-n-butylphthalate	149	19.468	19.475	(1.070)	1082872	4.56755	4.568
	64	Fluoranthene	202	20.636	20.620	(0.888)	1468565	5.34286	5.343
	65	Pyrene	202	21.046	21.046	(0.906)	1461208	5.18227	5.182
$	66	Terphenyl-d14	244	21.332	21.332	(0.918)	810802	3.82908	3.829
	67	Butylbenzylphthalate	149	22.261	22.261	(0.958)	486442	4.76835	4.768
	68	Benzo(a)anthracene	228	23.206	23.198	(0.999)	1192354	4.93830	4.938
*	69	Chrysene-d12	240	23.237	23.229	(1.000)	684055	4.00000	
	70	3,3'-Dichlorobenzidine	252	Compound Not Detected.					
	71	Chrysene	228	23.276	23.275	(1.002)	1261140	5.34625	5.346
	72	bis(2-Ethylhexyl)phthalate	149	23.291	23.283	(0.959)	896647	5.46885	5.469
*	134	Di-n-octylphthalate-d4	153	24.274	24.266	(1.000)	1117093	4.00000	
	73	Di-n-octylphthalate	149	24.282	24.282	(1.000)	1278474	4.37331	4.373
	74	Benzo(b)fluoranthene	252	25.087	25.071	(0.970)	1509371	5.92183	5.922
	75	Benzo(k)fluoranthene	252	25.134	25.118	(0.972)	1384040	5.34766	5.348
	76	Benzo(a)pyrene	252	25.738	25.722	(0.996)	1084280	4.75813	4.758
*	77	Perylene-d12	264	25.854	25.830	(1.000)	786308	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	28.513	28.466	(1.103)	1242005	4.28400	4.284
	79	Dibenzo(a,h)anthracene	278	28.521	28.482	(1.103)	1001716	4.16175	4.162
	80	Benzo(g,h,i)perylene	276	29.298	29.235	(1.133)	1026064	4.08954	4.090
	90	N-Nitrosodimethylamine	74	4.735	4.727	(0.501)	280225	7.49707	7.497
	91	Aniline	93	Compound Not Detected.					
	93	Benzidine	184	Compound Not Detected.					
	103	Pyridine	79	Compound Not Detected.					
	105	1-methylnaphthalene	142	13.220	13.243	(1.142)	535558	4.30971	4.310
	111	Azobenzene (1,2-DP-Hydrazine)	77	16.584	16.599	(1.093)	485365	3.40544	3.405

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.134	25.118	(0.972)	2725212	11.0738	11.07
120 2,3,4,6-Tetrachlorophenol	232	15.897	15.912	(1.048)	163434	3.95544	3.955

QC Flag Legend

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

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1003212315.D
Lab Smp Id: BLC0109-MS1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230321.b\ABN.m
Misc Info:

Calibration Date: 21-MAR-2023
Calibration Time: 17:46
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	138414	69207	276828	193736	39.97
27 Naphthalene-d8	511348	255674	1022696	709454	38.74
42 Acenaphthene-d10	293241	146621	586482	400302	36.51
59 Phenanthrene-d10	535484	267742	1070968	755922	41.17
69 Chrysene-d12	464733	232367	929466	684055	47.19
134 Di-n-octylphthala	716354	358177	1432708	1117093	55.94
77 Perylene-d12	509704	254852	1019408	786308	54.27

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.11	8.61	9.61	9.10	-0.08
27 Naphthalene-d8	11.59	11.09	12.09	11.57	-0.13
42 Acenaphthene-d10	15.19	14.69	15.69	15.17	-0.10
59 Phenanthrene-d10	18.21	17.71	18.71	18.19	-0.08
69 Chrysene-d12	23.23	22.73	23.73	23.24	0.03
134 Di-n-octylphthala	24.27	23.77	24.77	24.27	0.03
77 Perylene-d12	25.83	25.33	26.33	25.85	0.09

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

REVIEW SUMMARY FOR FILE - NT1003212315.D

Lab ID: BLC0109-MS1
nt10.i, 20230321.b\ABN.m,   22-MAR-2023 02:08

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

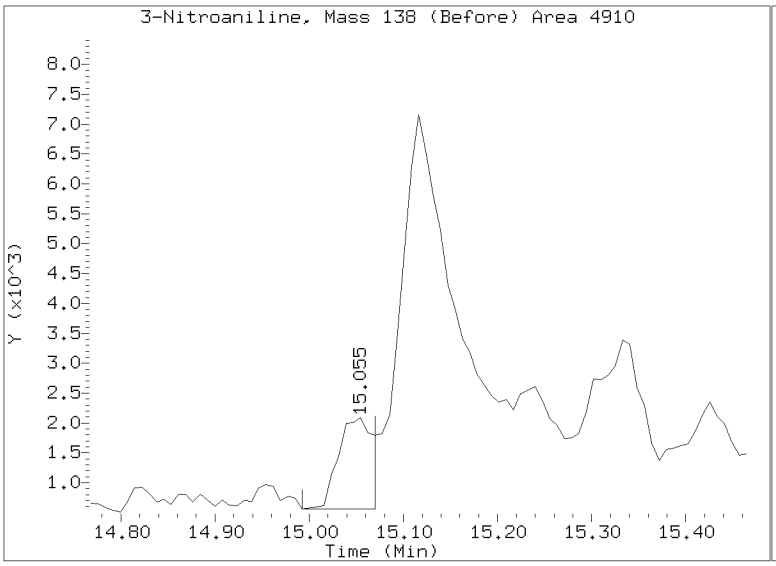
RRT check based on Ccal File: NT1003212302.D

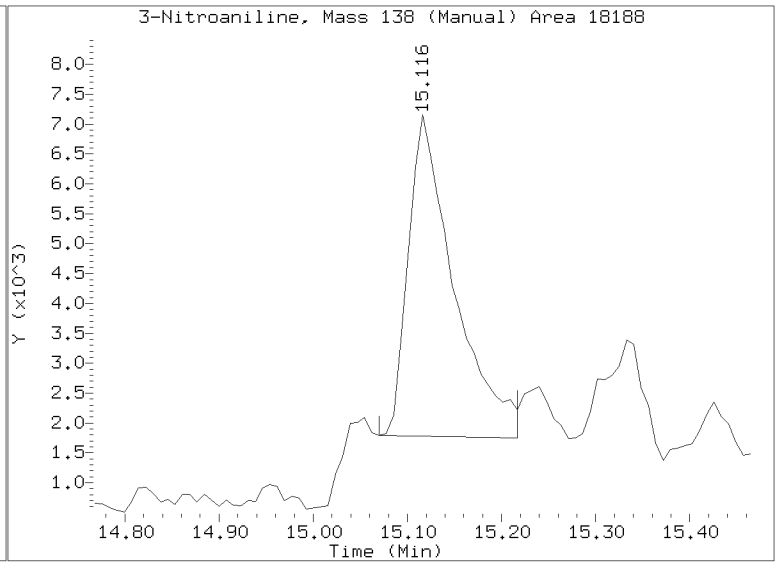
On Column LOD for nt10.i, 20230321.b\ABN.m, ICAL.sub = 0.0000

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230321.b/NT1003212315.D
Injection Date: 22-MAR-2023 02:08
Lab ID:BLC0109-MS1 Client ID:
Report Date: 03/29/2023 08:03





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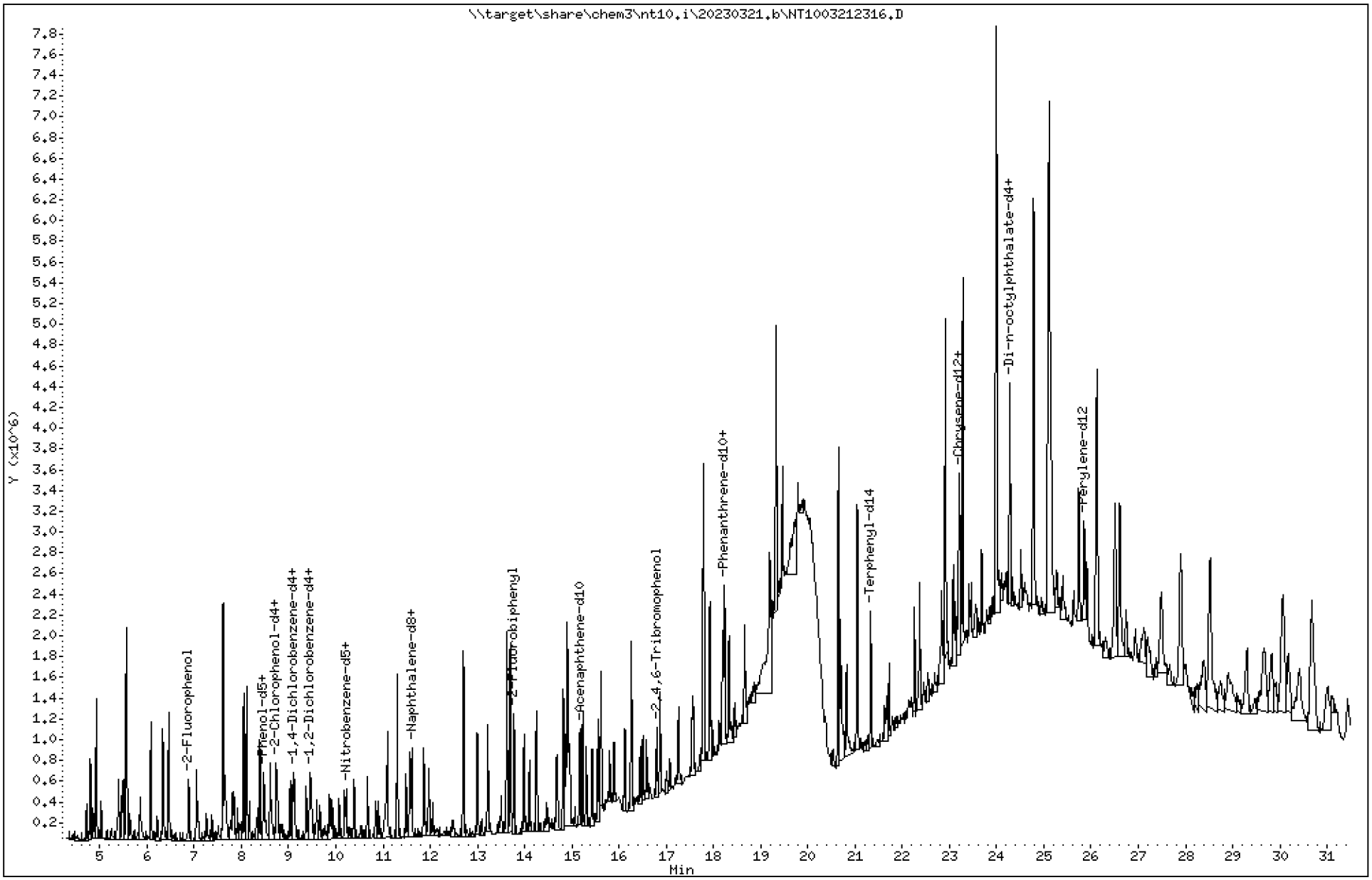
Date : 22-MAR-2023 02:46
Client ID:
Sample Info: BLC0109-MSD1

Instrument: nt10.i
Operator: VTS
Column phase: ZB-5msi
Column diameter: 0.25



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Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD1

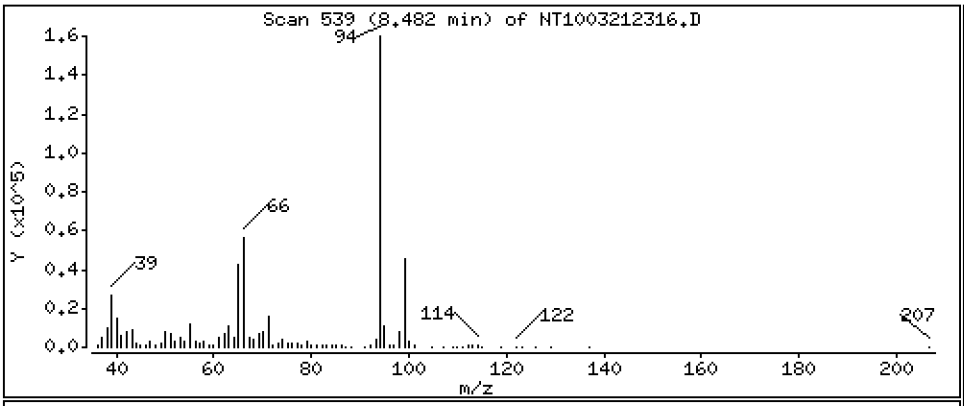
Operator: VTS

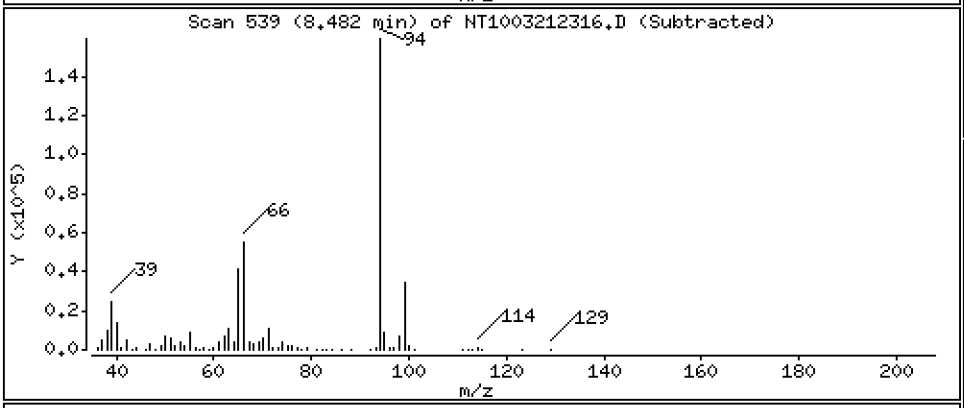
Column phase: ZB-5msi

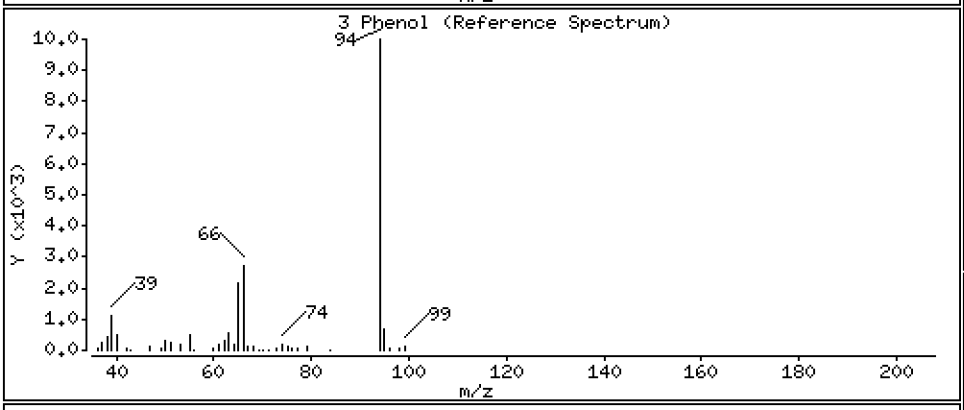
Column diameter: 0.25

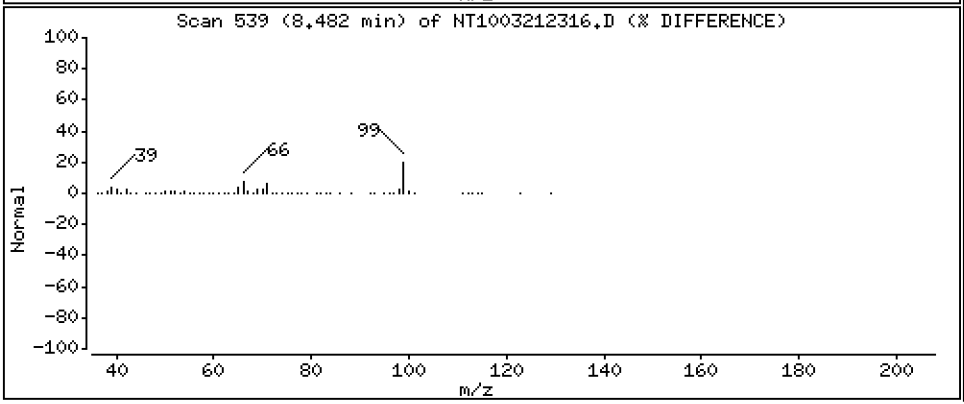
3 Phenol

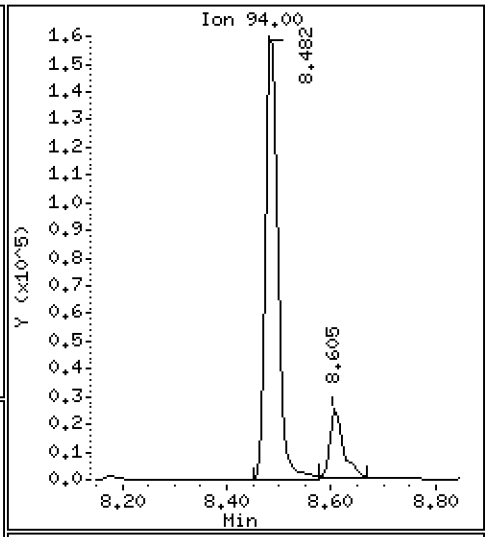
Concentration: 3.382 ug/mL

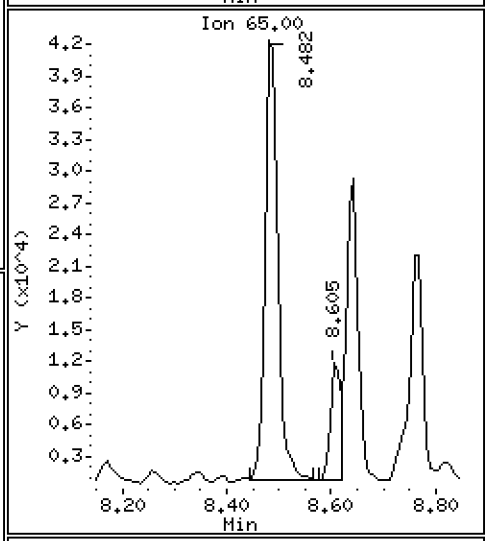


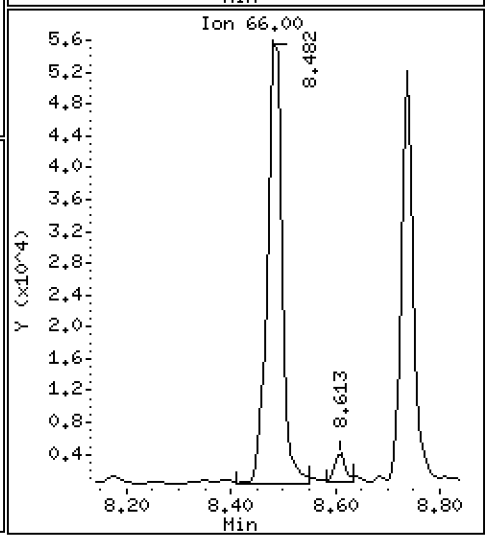












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Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD1

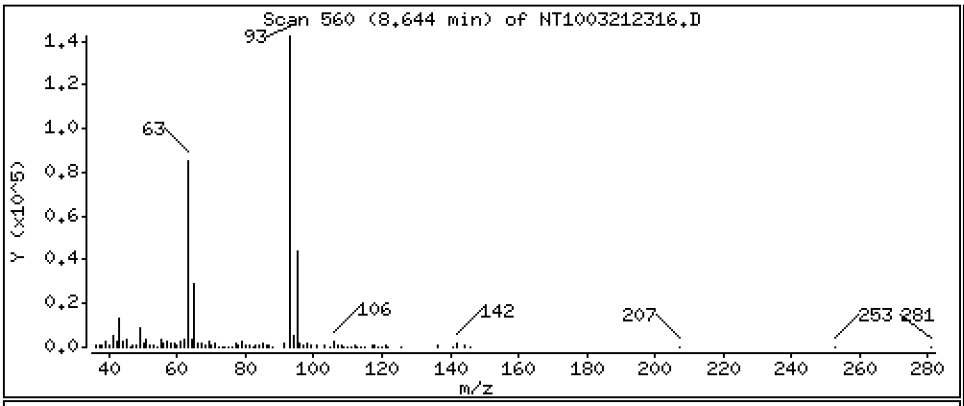
Operator: VTS

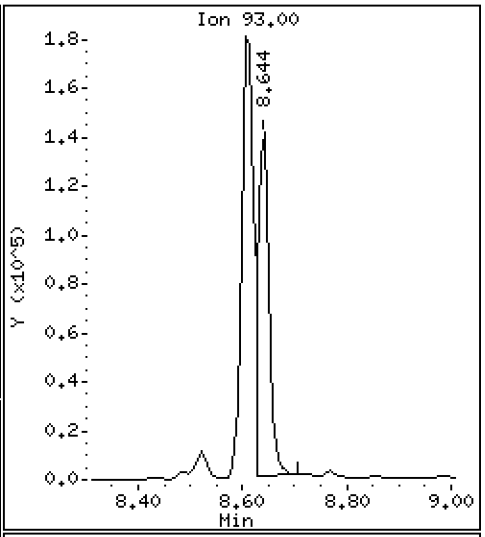
Column phase: ZB-5msi

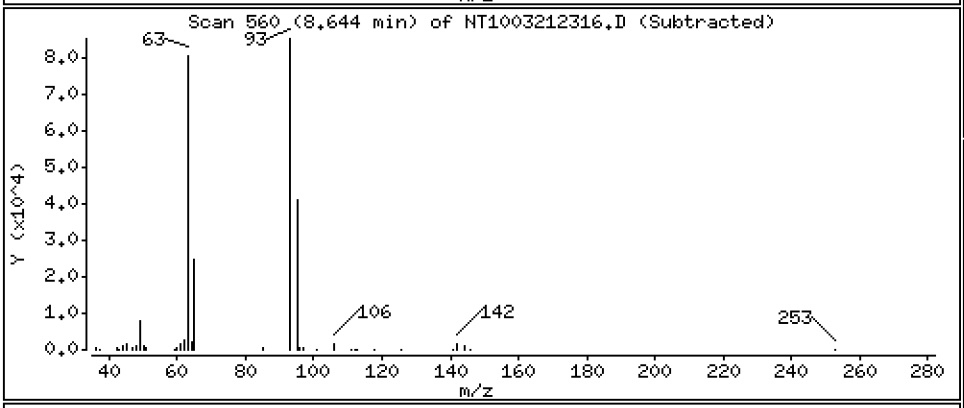
Column diameter: 0.25

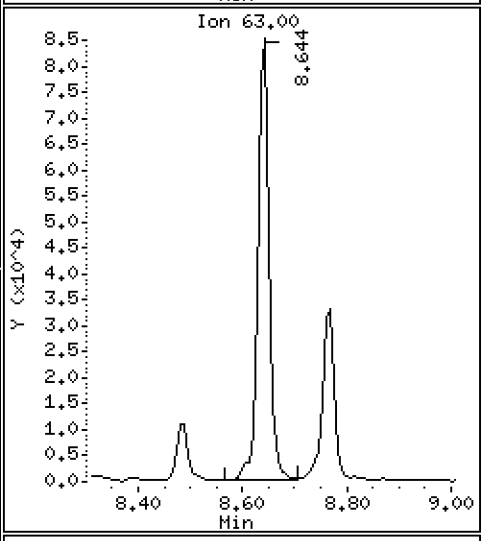
4 Bis(2-Chloroethyl)ether

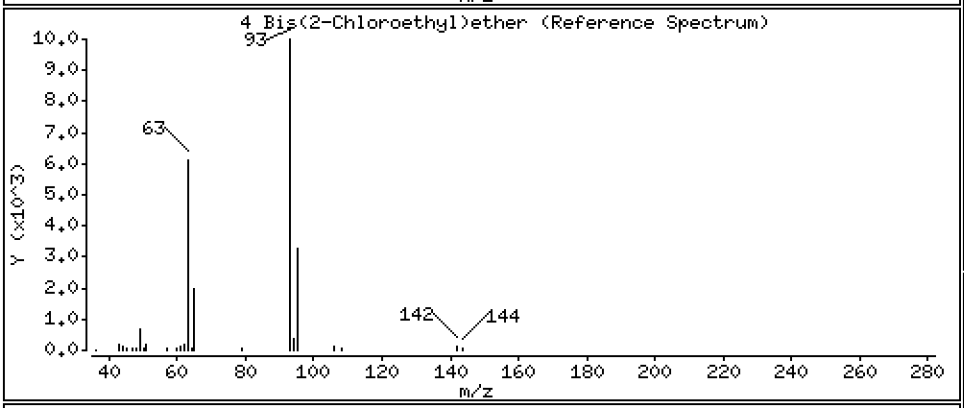
Concentration: 3.947 ug/mL

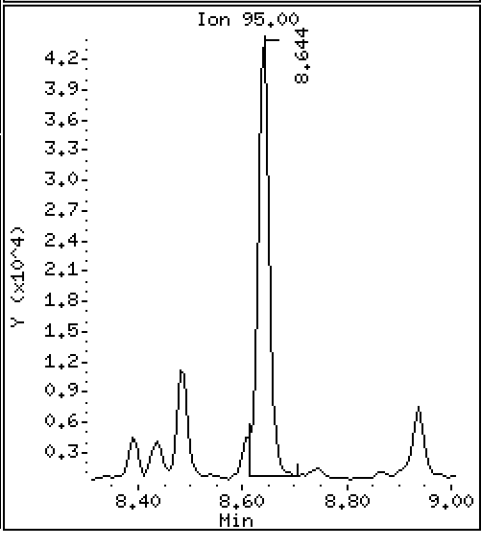


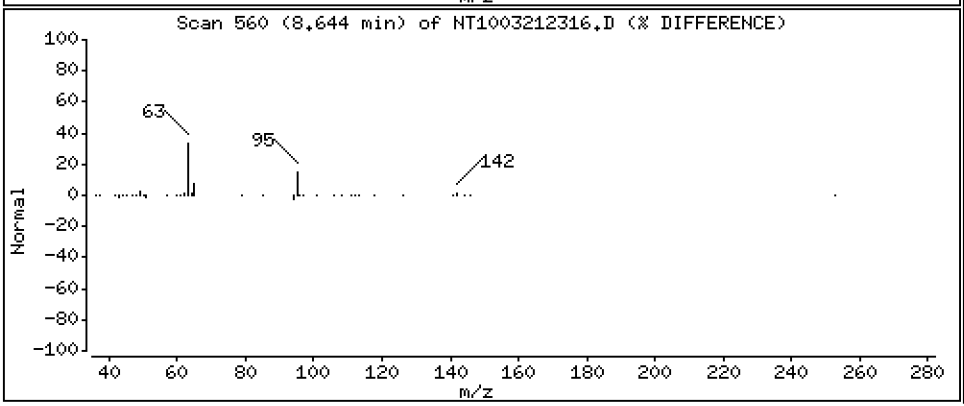












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Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD1

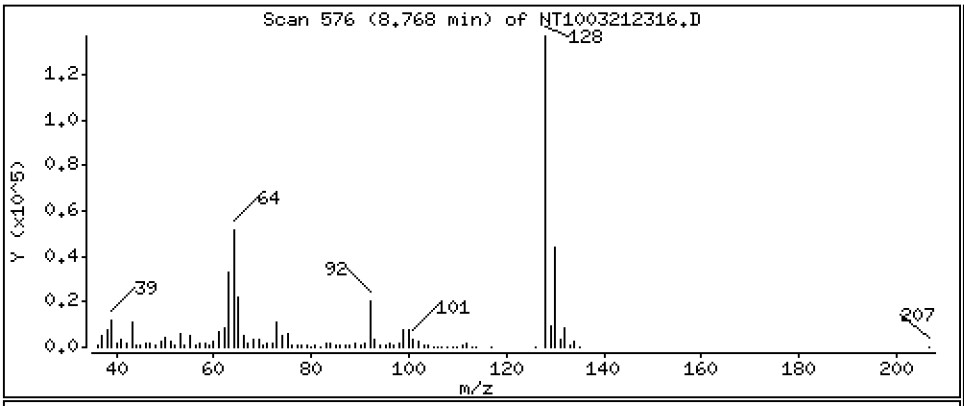
Operator: VTS

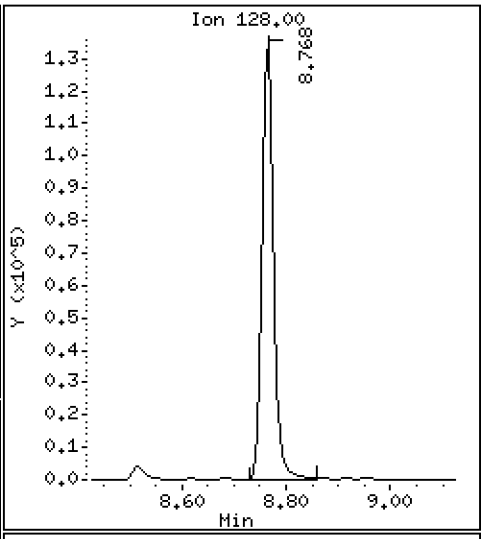
Column phase: ZB-5msi

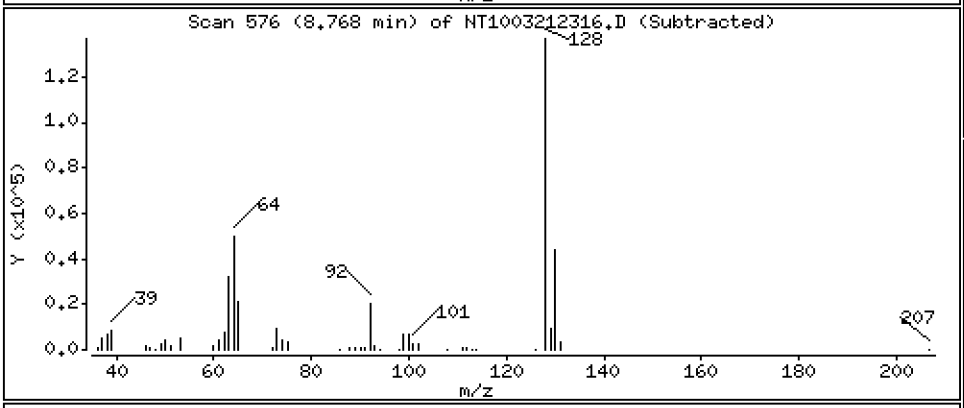
Column diameter: 0.25

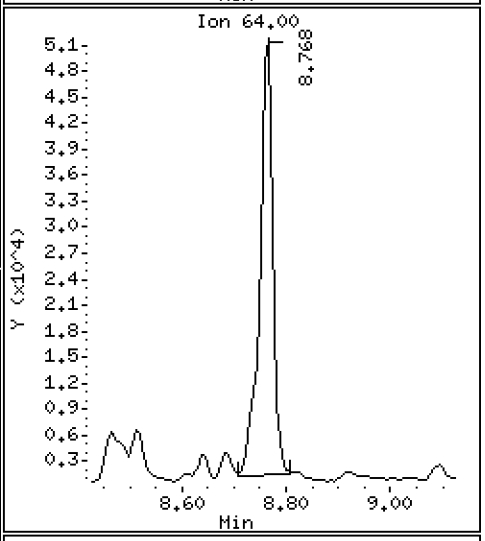
6 2-Chlorophenol

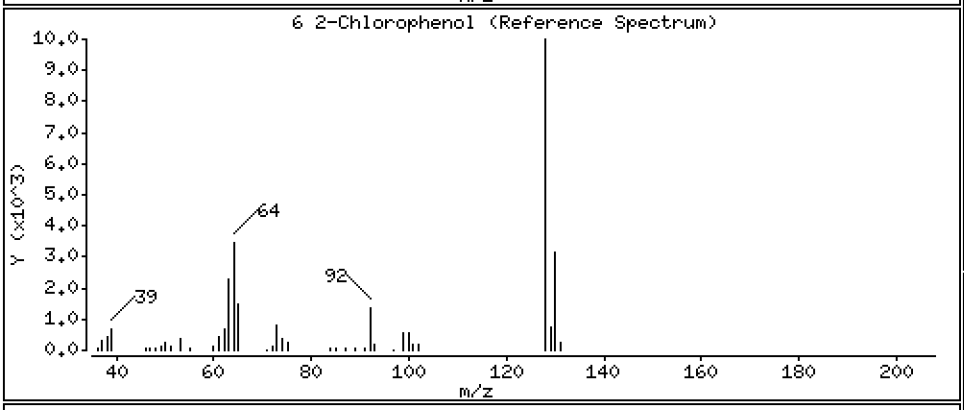
Concentration: 3.330 ug/mL

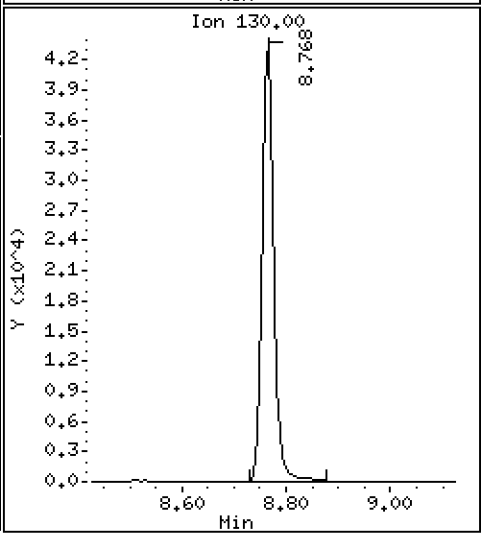


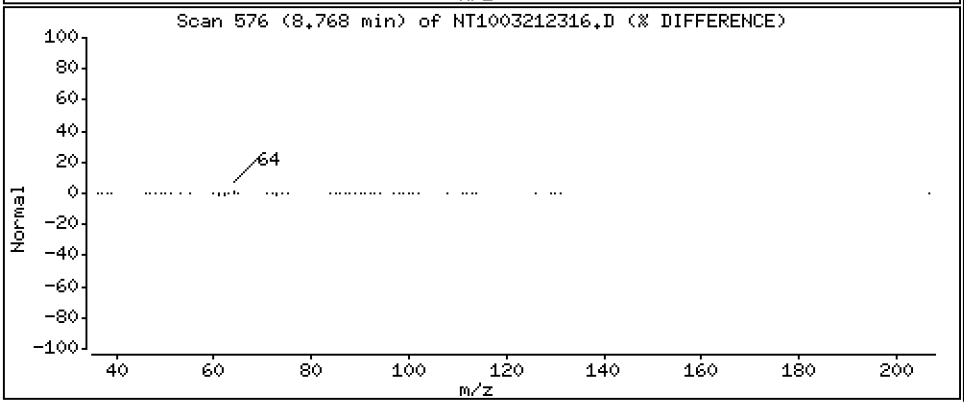












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Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD1

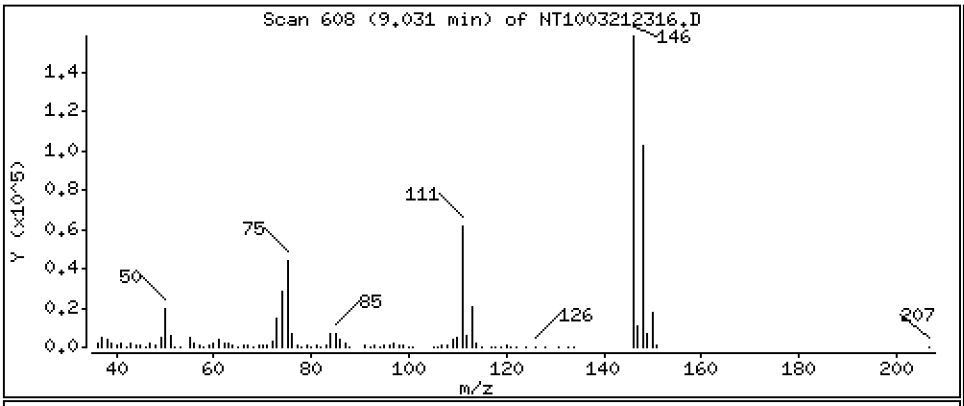
Operator: VTS

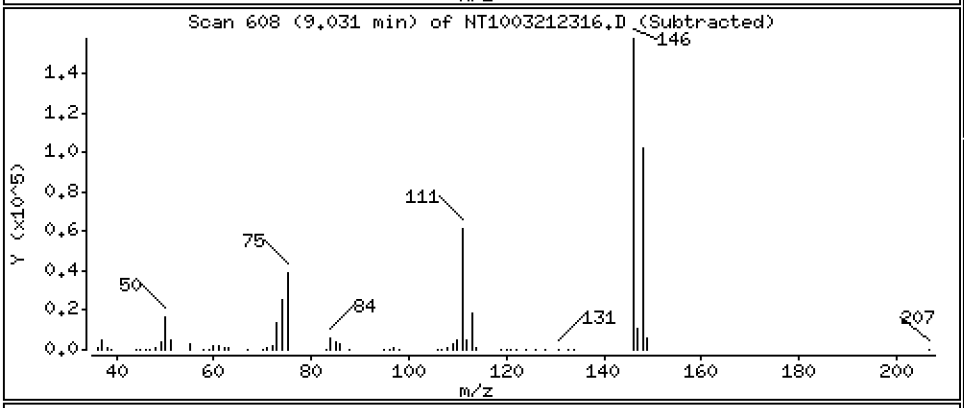
Column phase: ZB-5msi

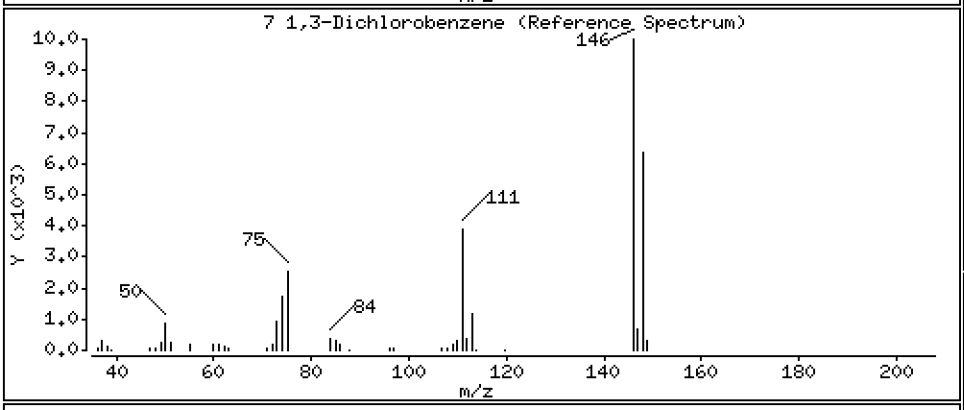
Column diameter: 0.25

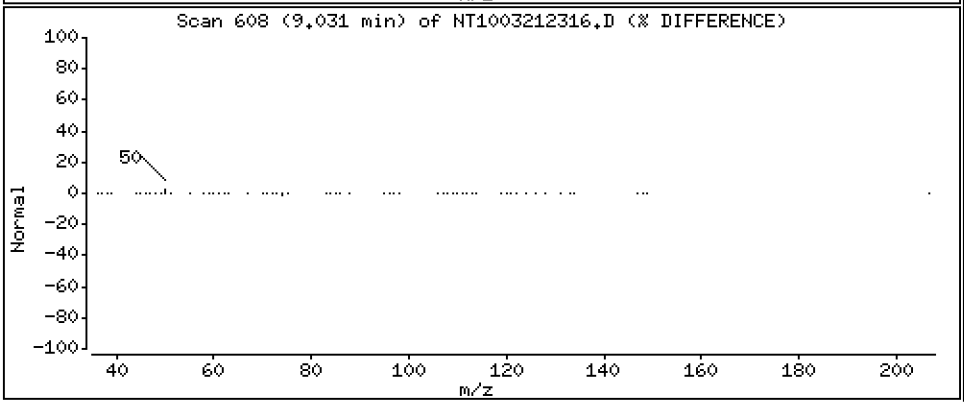
7 1,3-Dichlorobenzene

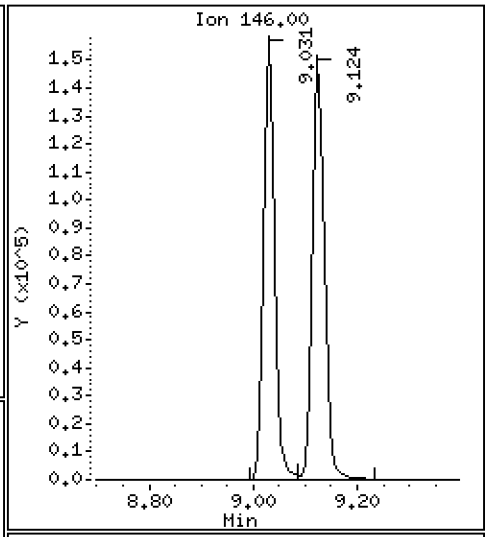
Concentration: 3.560 ug/mL

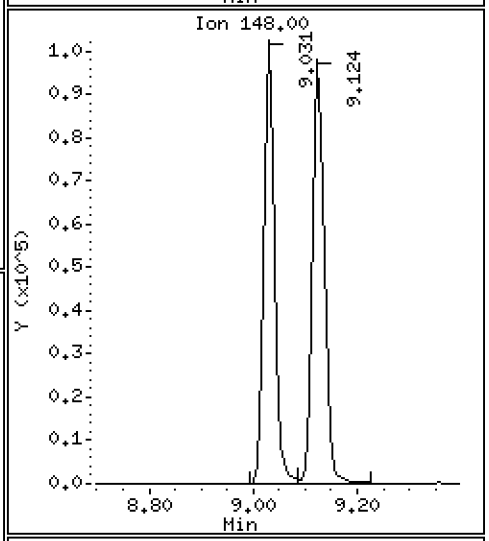


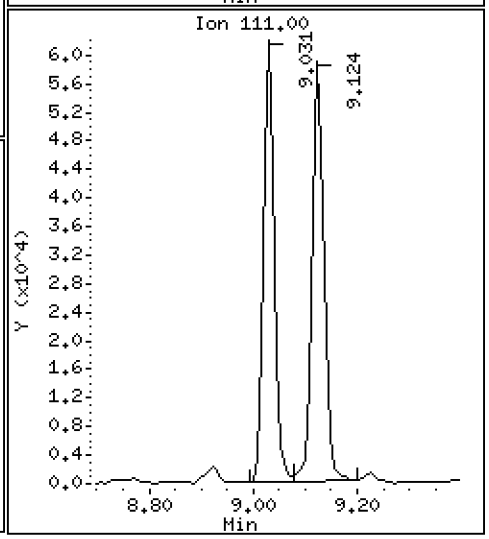












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Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD1

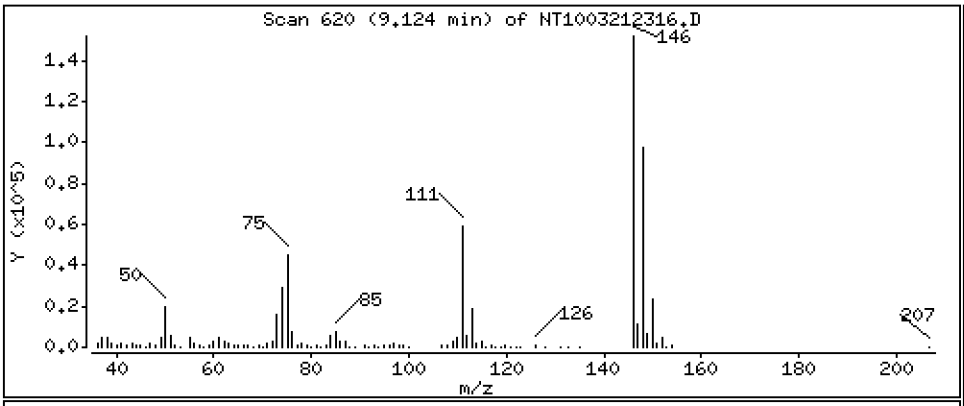
Operator: VTS

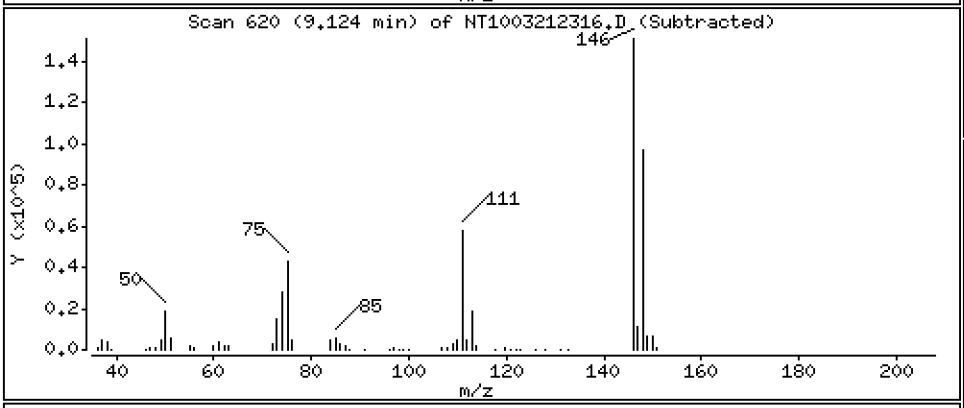
Column phase: ZB-5msi

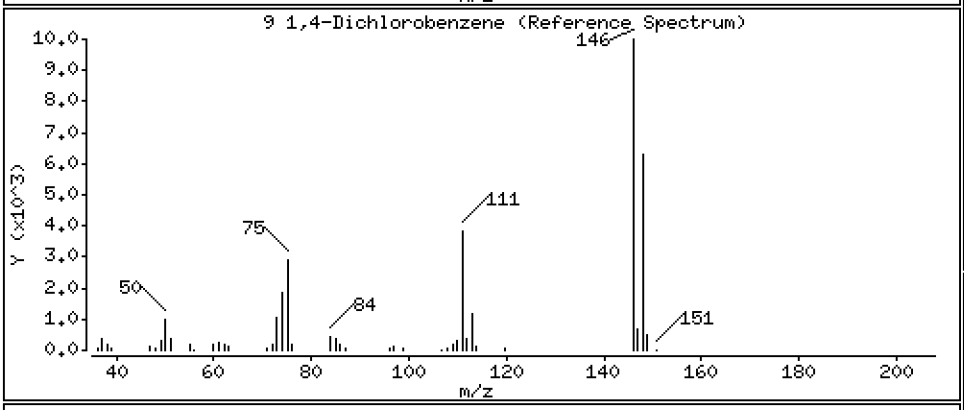
Column diameter: 0.25

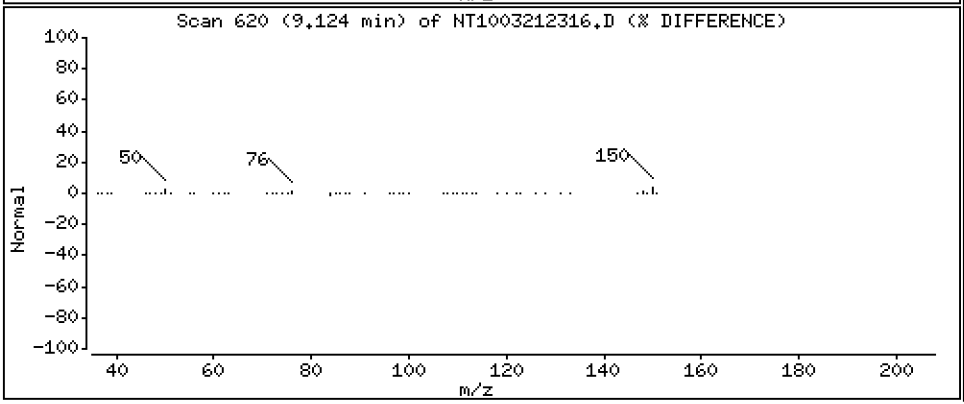
9 1,4-Dichlorobenzene

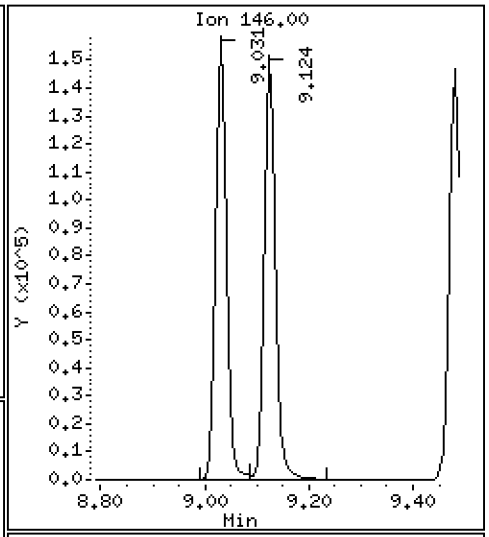
Concentration: 3.608 ug/mL

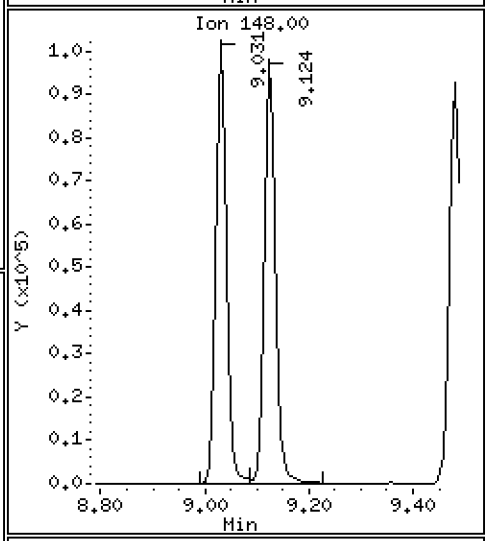


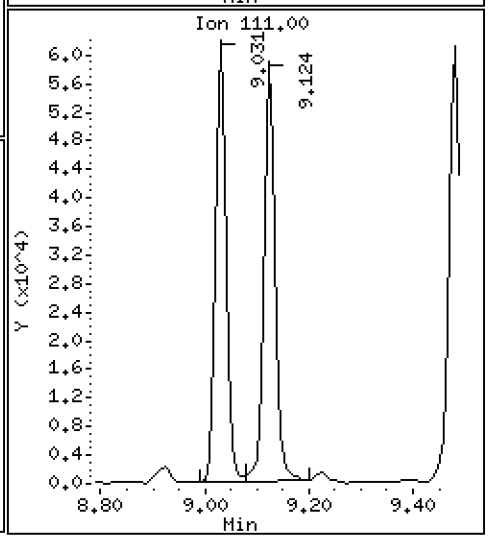












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Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD1

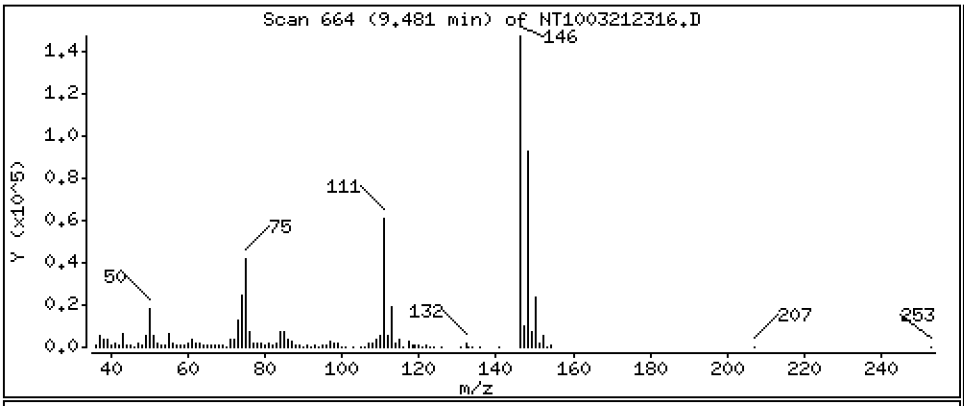
Operator: VTS

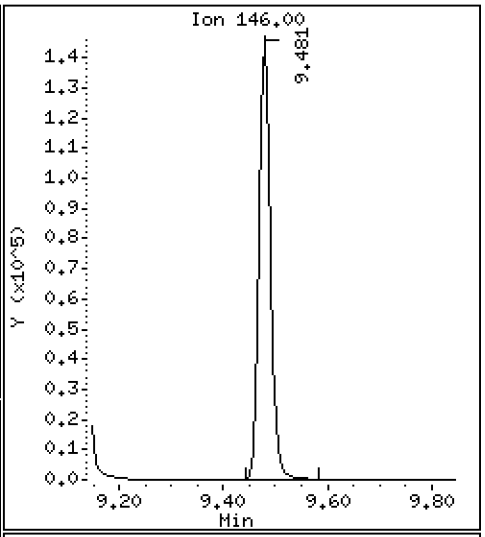
Column phase: ZB-5msi

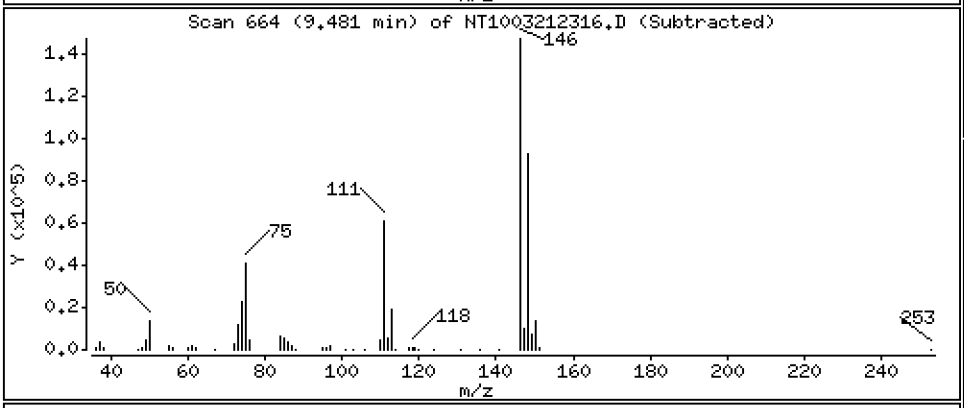
Column diameter: 0.25

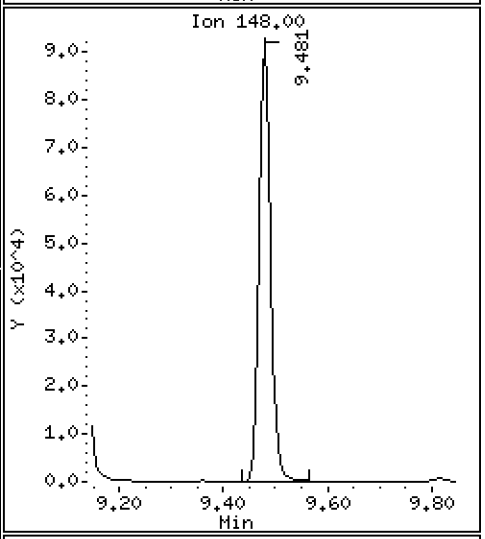
12 1,2-Dichlorobenzene

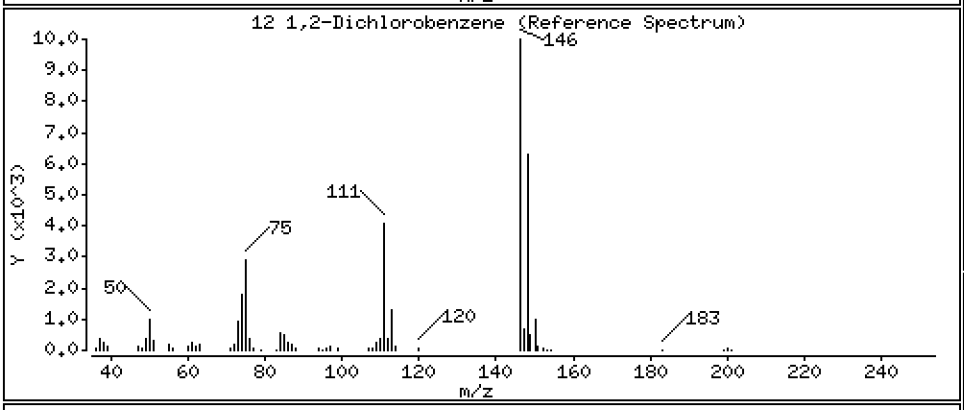
Concentration: 3.594 ug/mL

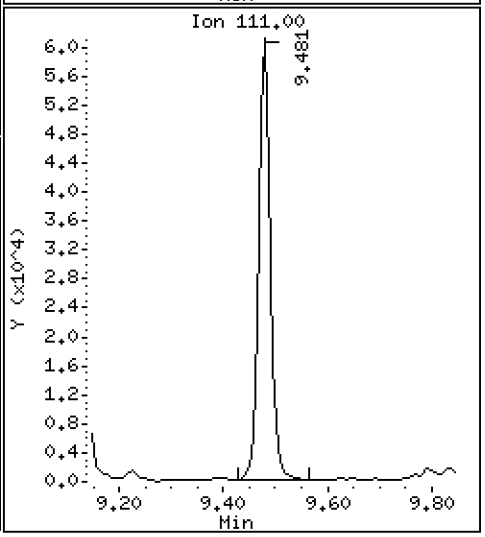


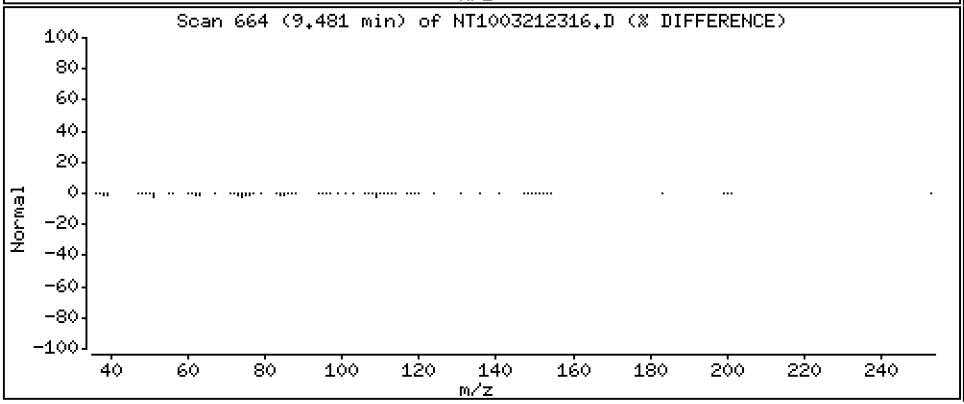












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212316.D

Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD1

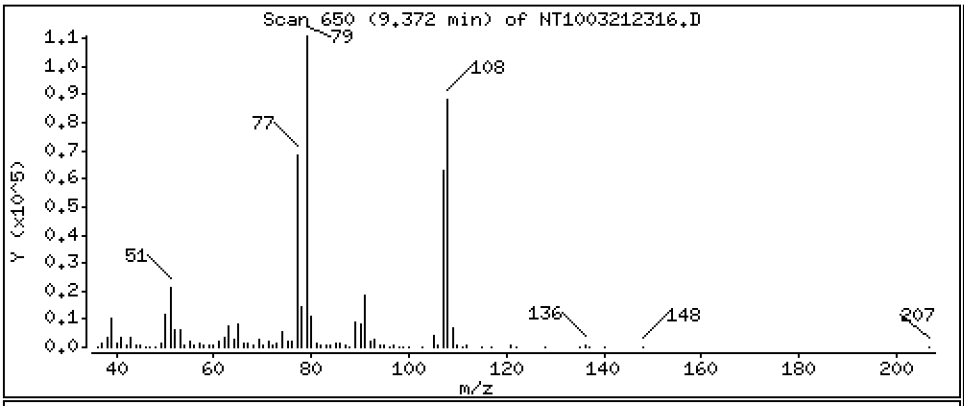
Operator: VTS

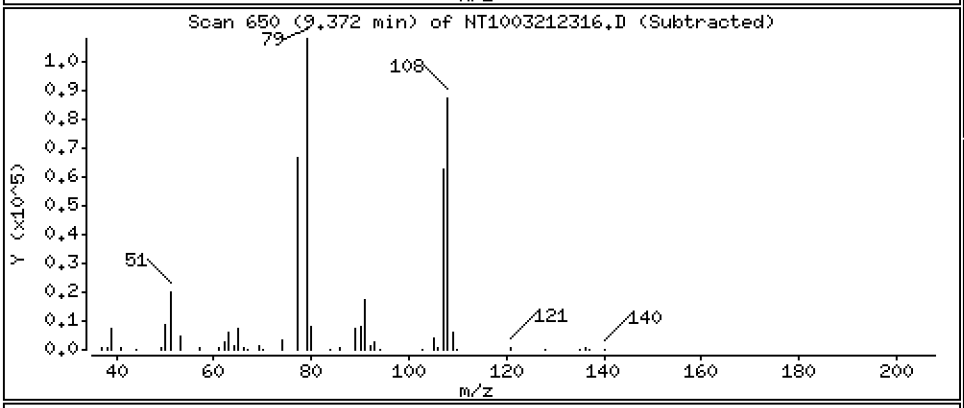
Column phase: ZB-5msi

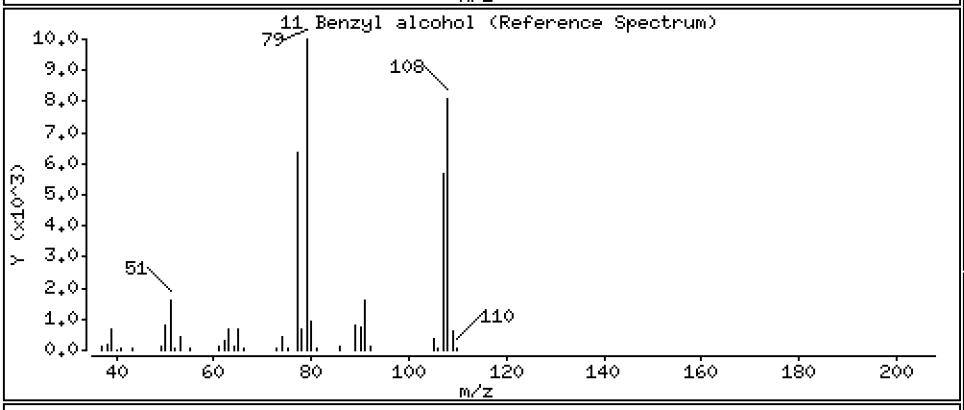
Column diameter: 0.25

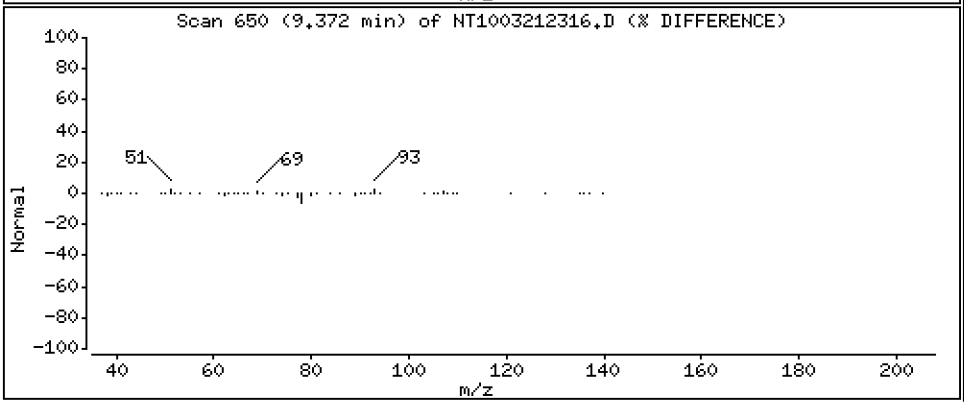
11 Benzyl alcohol

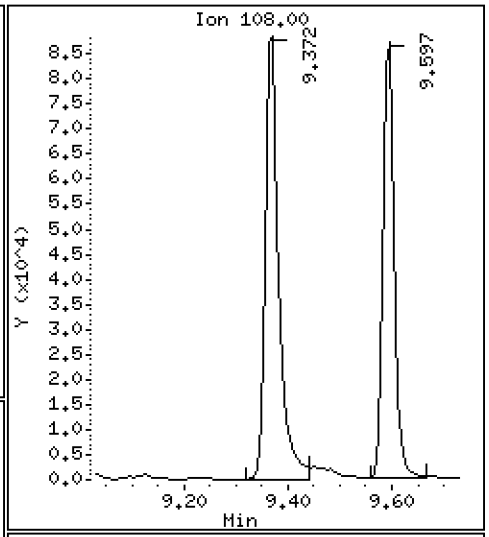
Concentration: 4.551 ug/mL

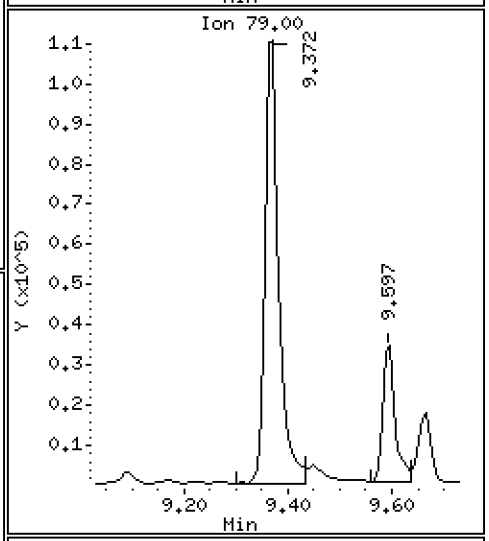


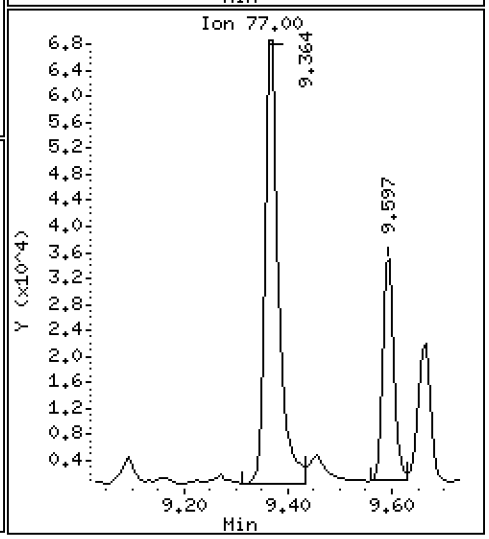












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Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD1

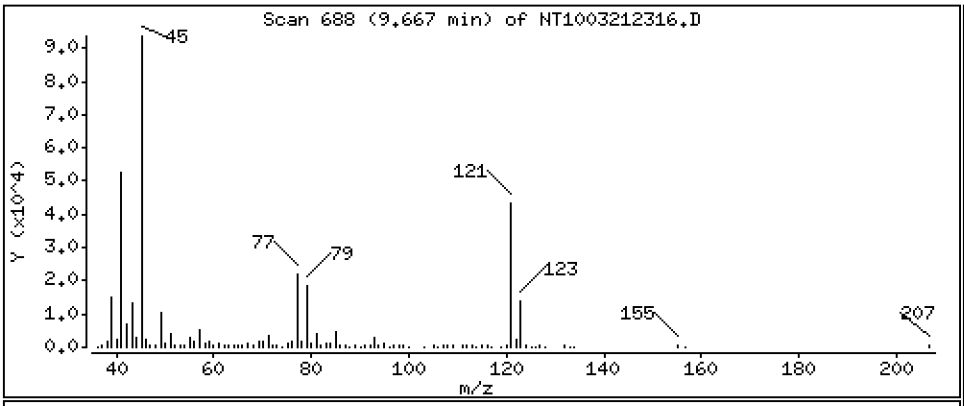
Operator: VTS

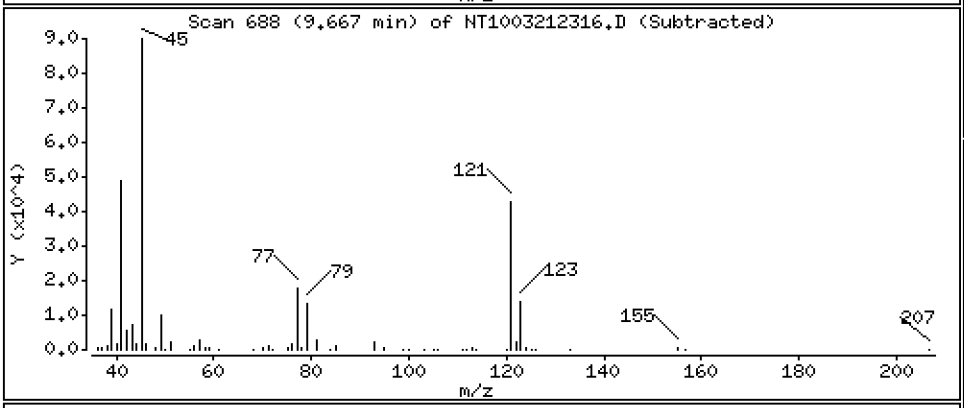
Column phase: ZB-5msi

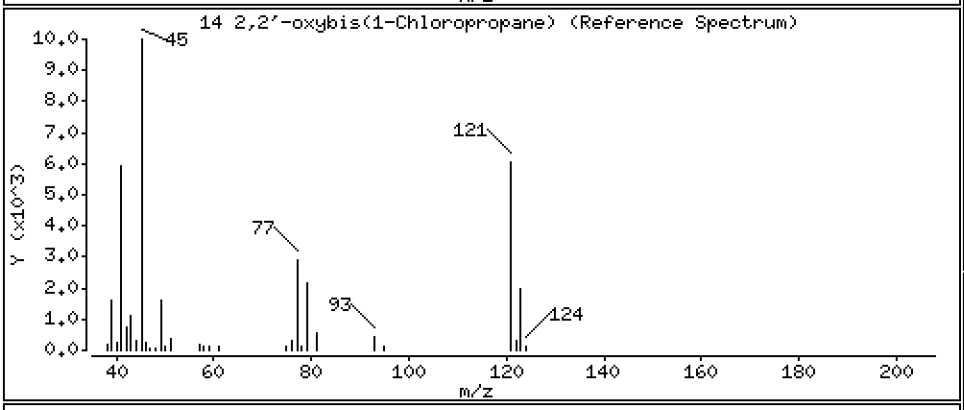
Column diameter: 0.25

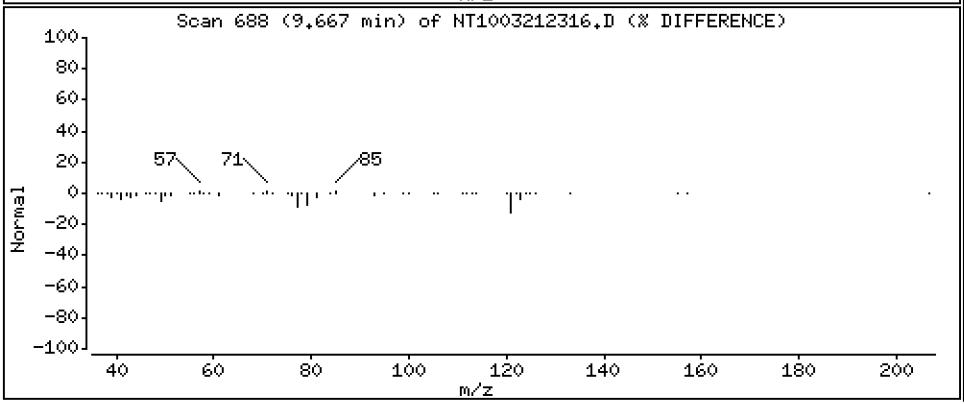
14 2,2'-oxybis(1-Chloropropane)

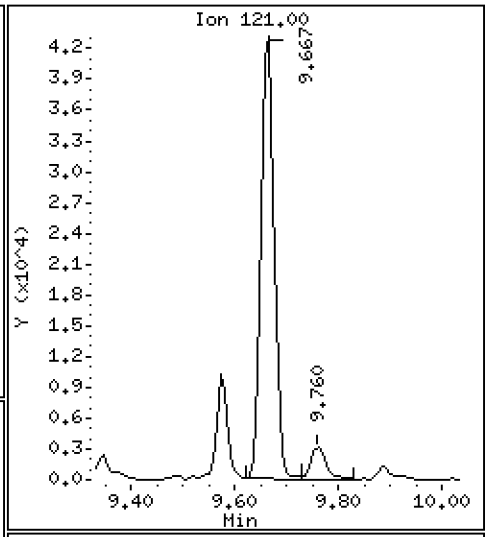
Concentration: 4.043 ug/mL

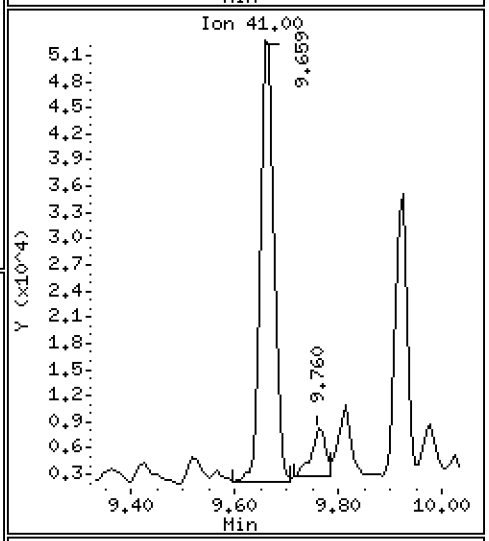


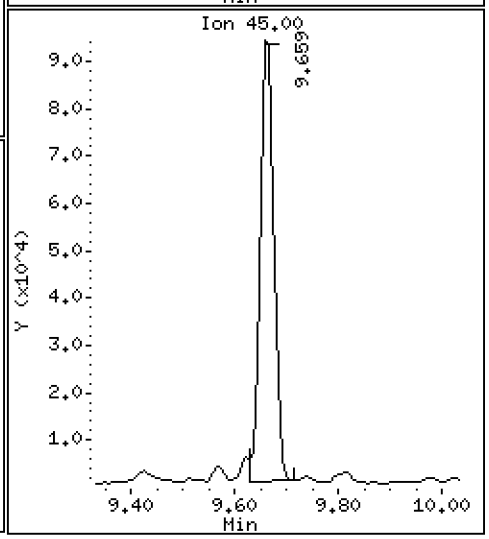












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Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD1

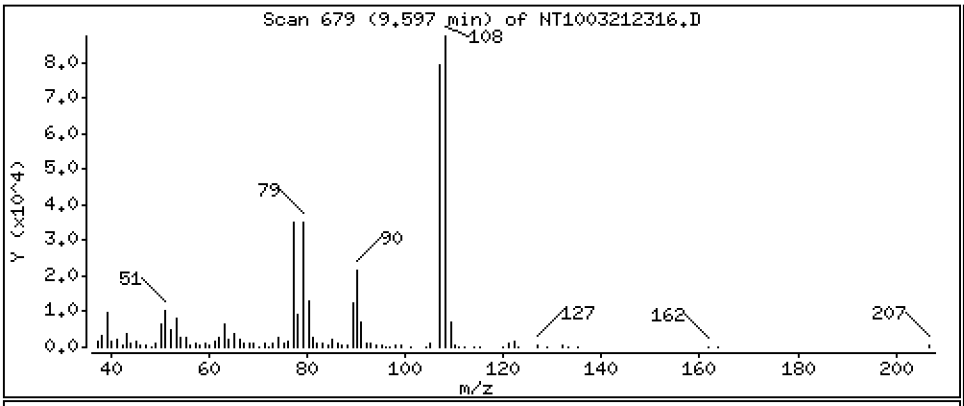
Operator: VTS

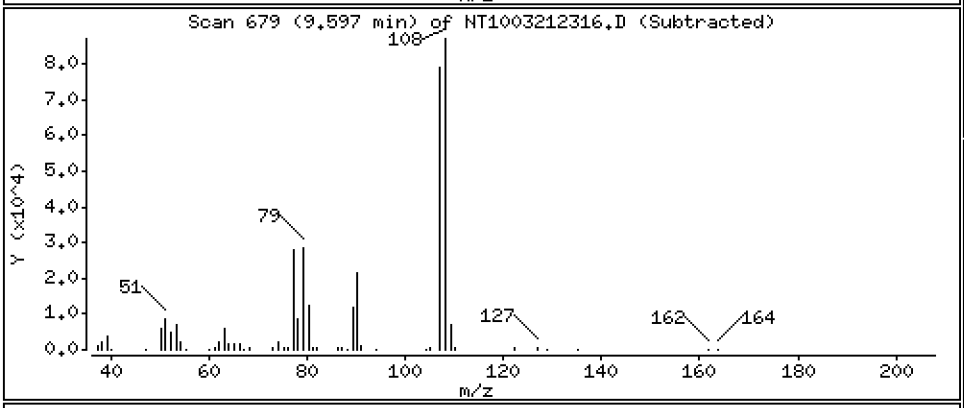
Column phase: ZB-5msi

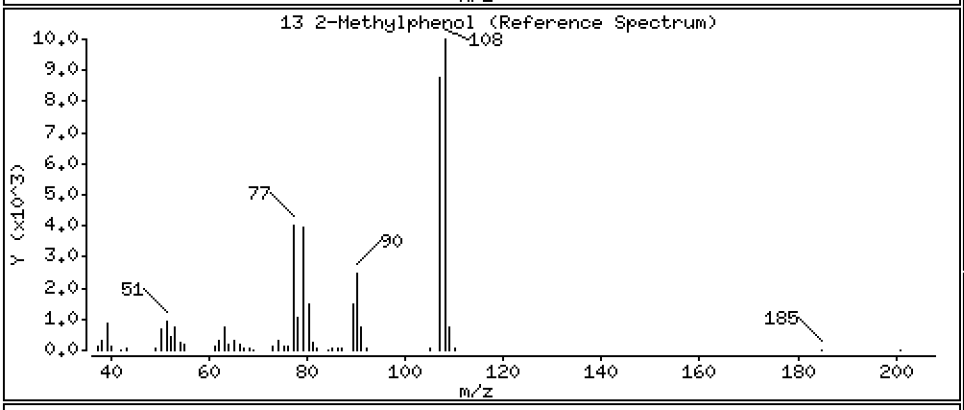
Column diameter: 0.25

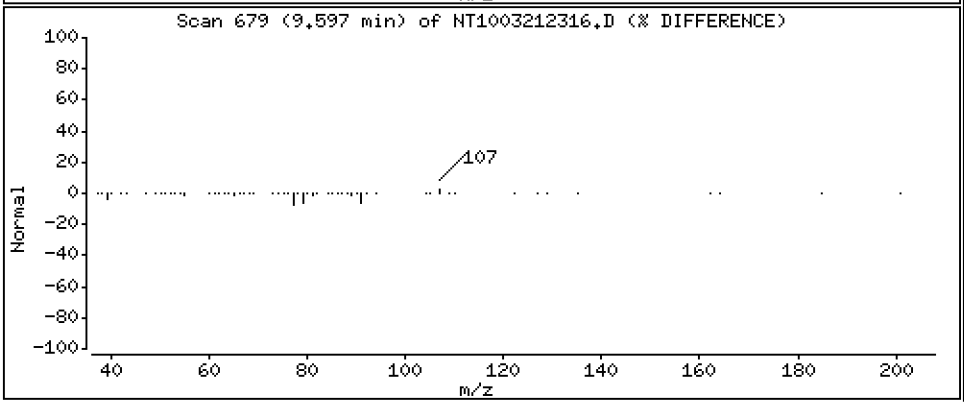
13 2-Methylphenol

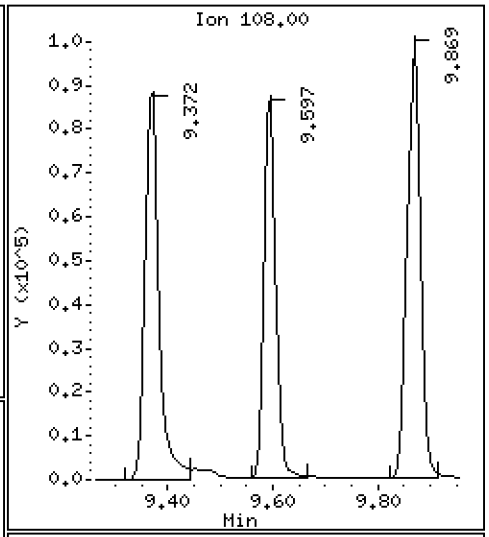
Concentration: 2.487 ug/mL

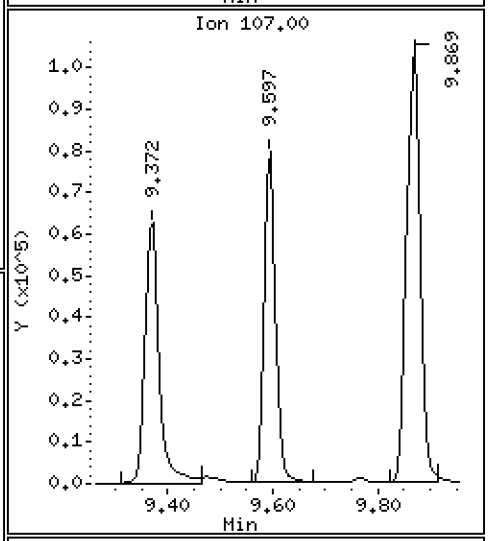


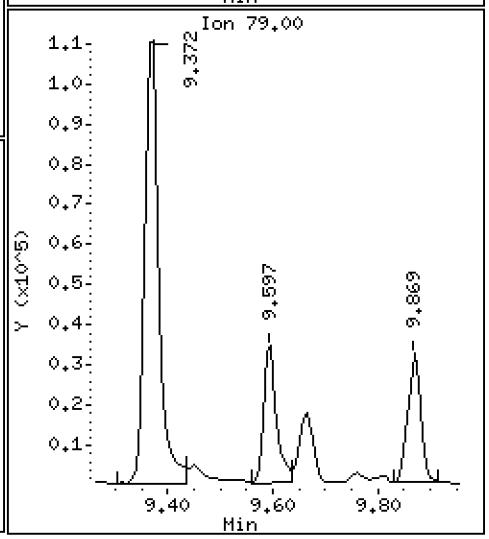












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Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD1

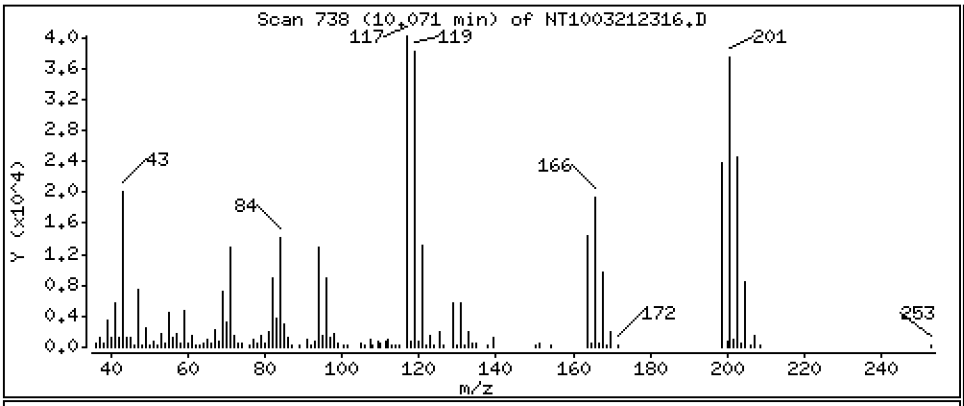
Operator: VTS

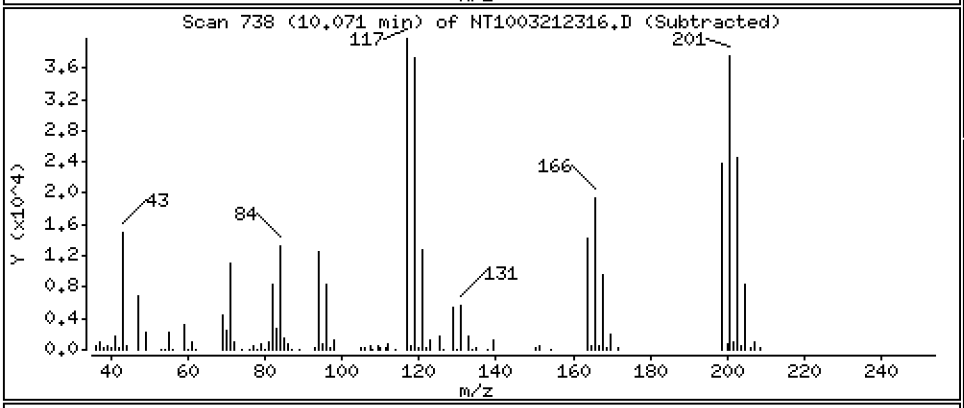
Column phase: ZB-5msi

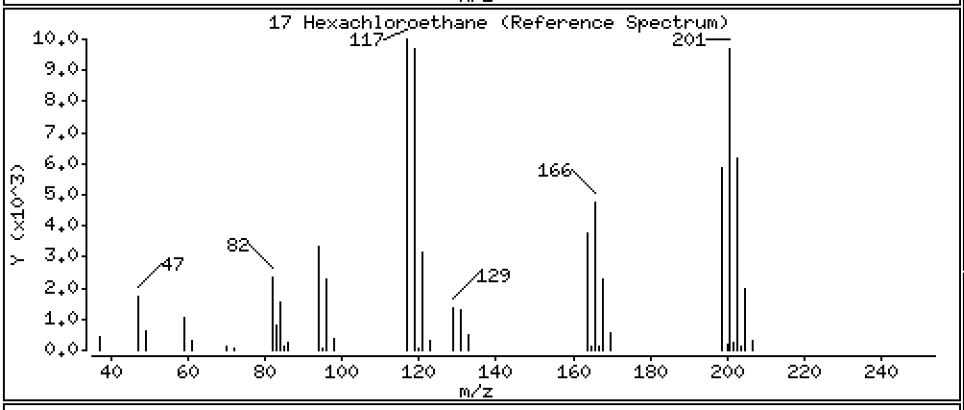
Column diameter: 0.25

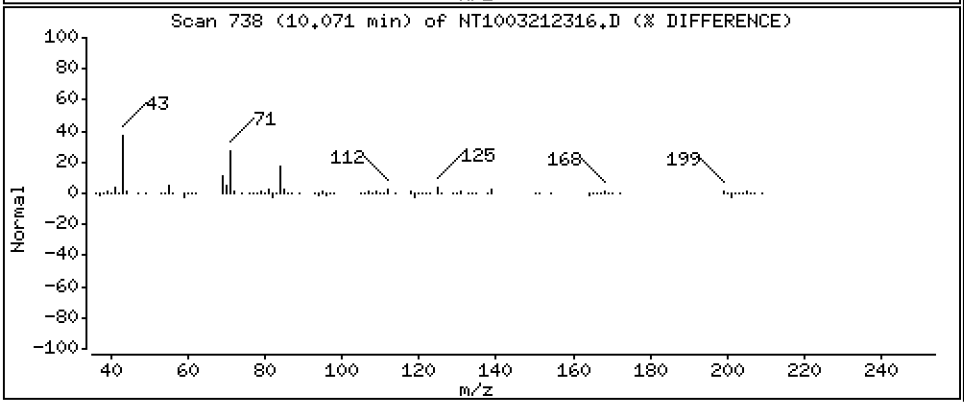
17 Hexachloroethane

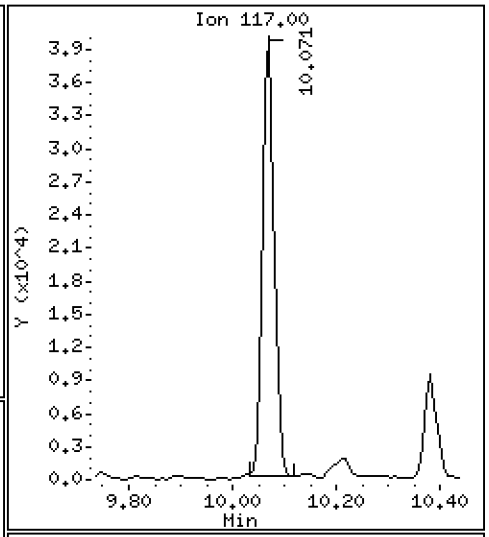
Concentration: 2.274 ug/mL

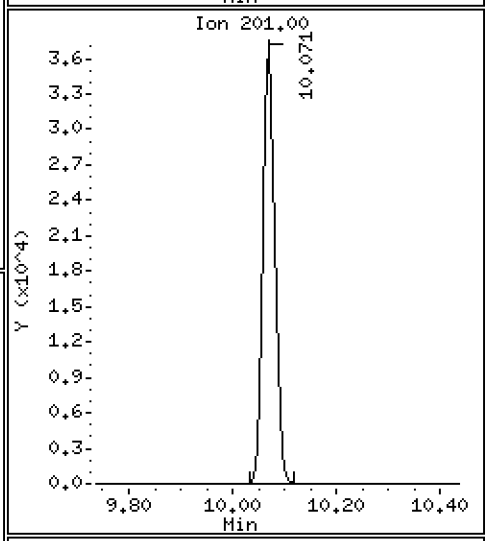


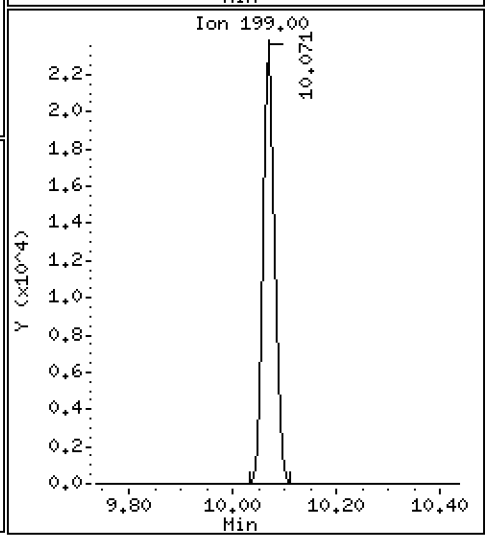












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Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD1

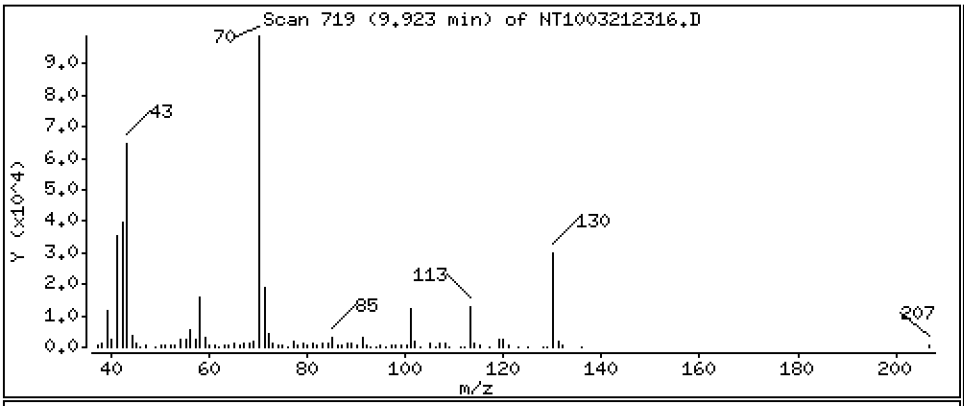
Operator: VTS

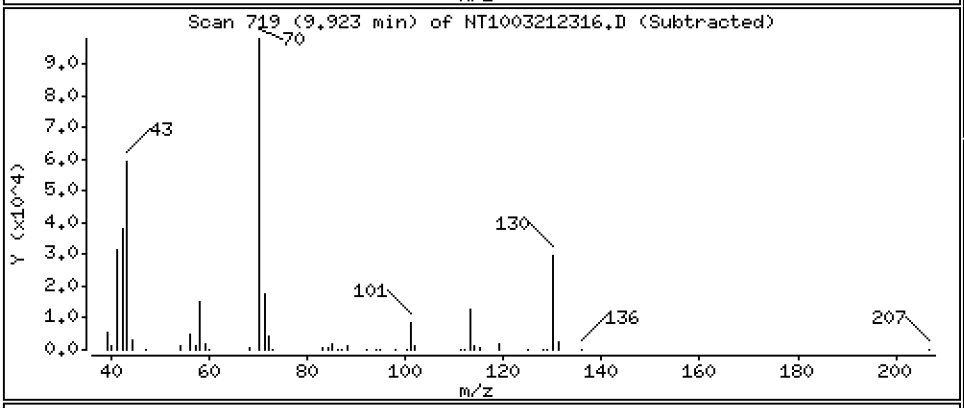
Column phase: ZB-5msi

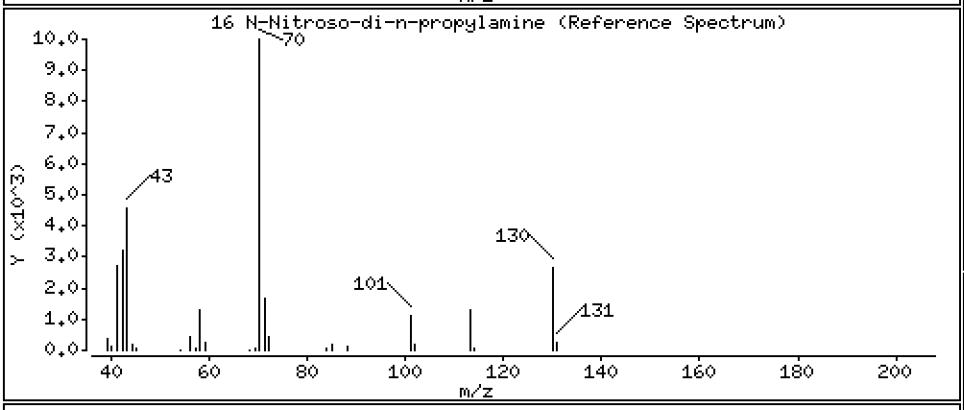
Column diameter: 0.25

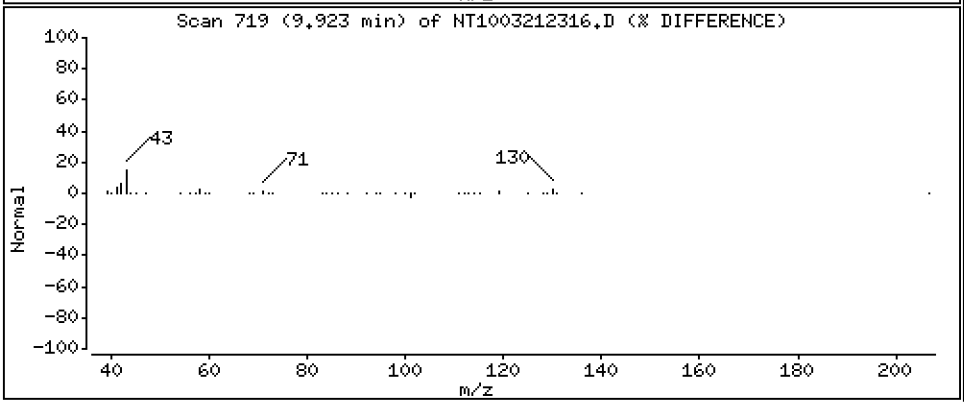
16 N-Nitroso-di-n-propylamine

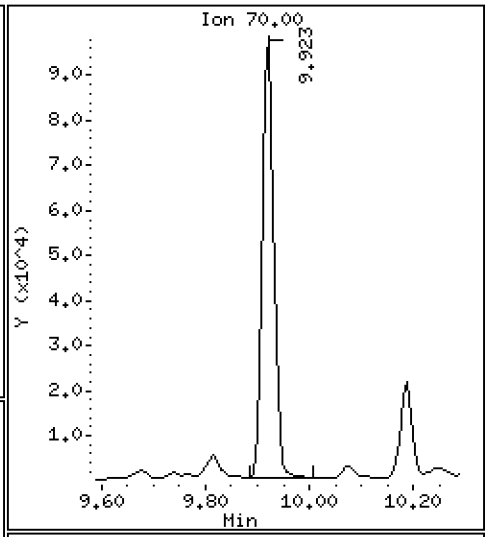
Concentration: 3.516 ug/mL

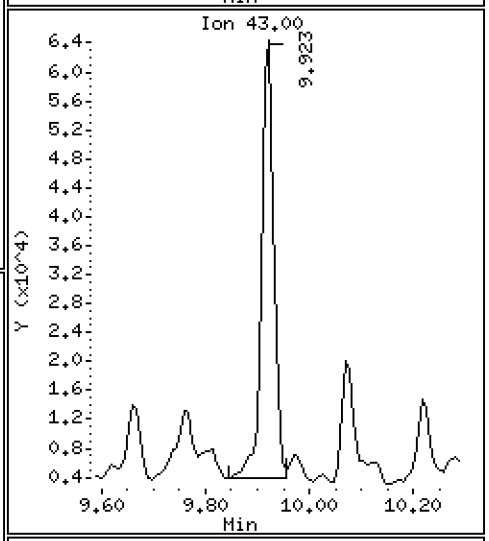


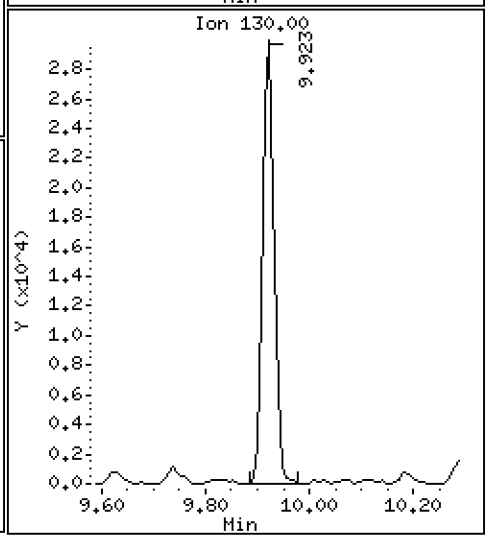












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Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD1

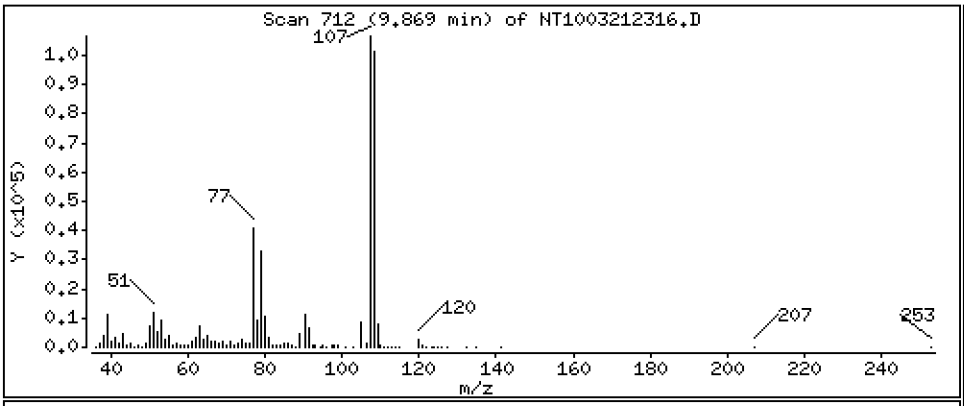
Operator: VTS

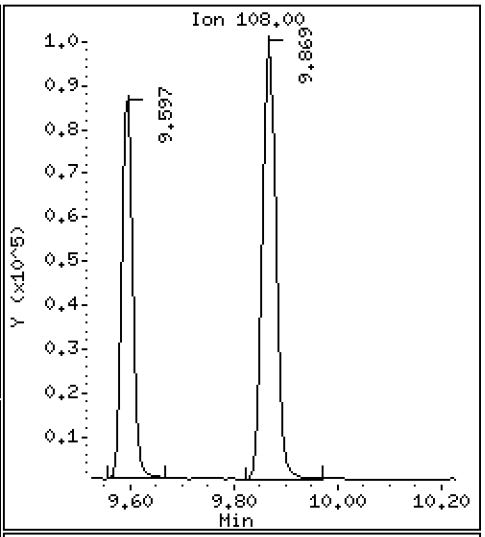
Column phase: ZB-5msi

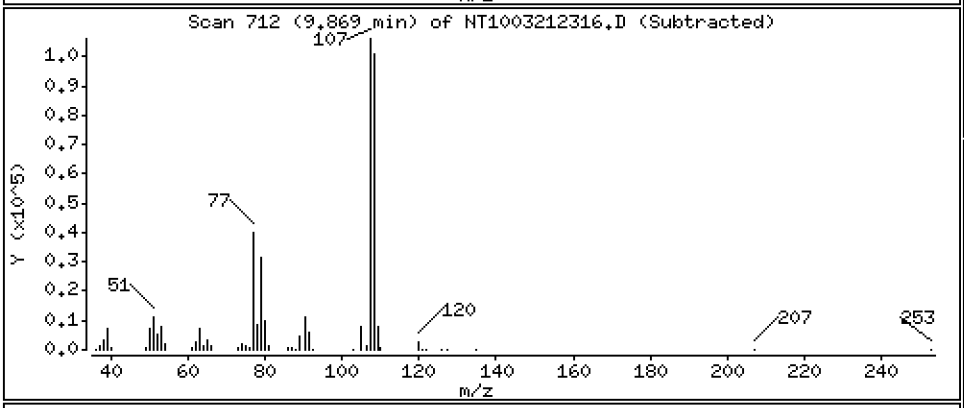
Column diameter: 0.25

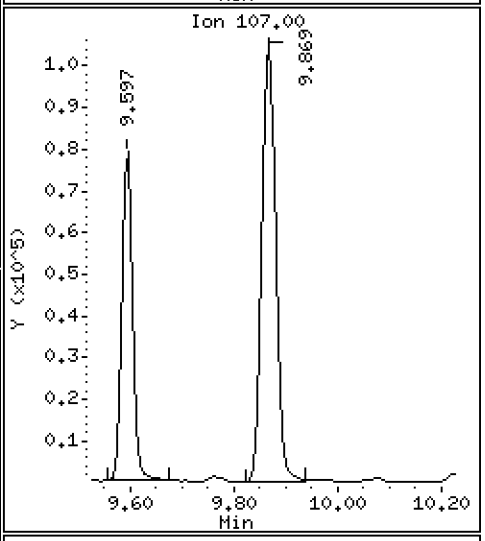
15 4-Methylphenol

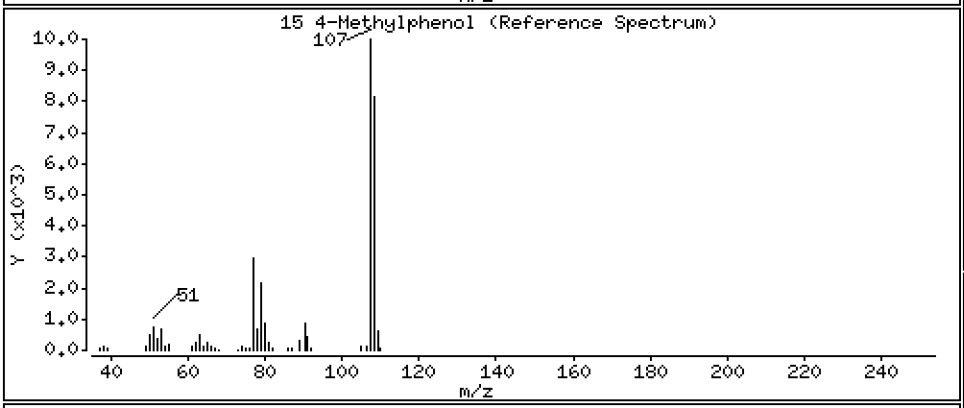
Concentration: 3.031 ug/mL

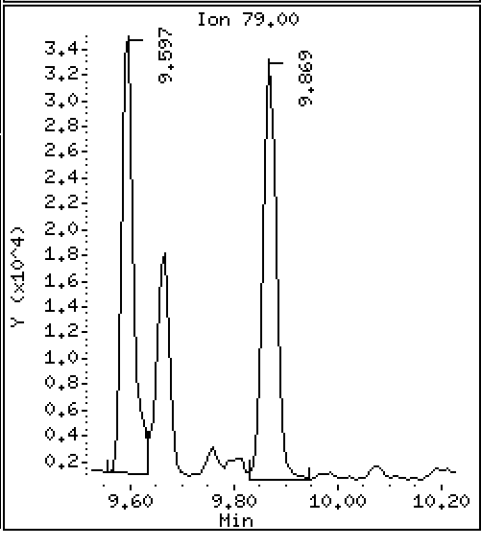


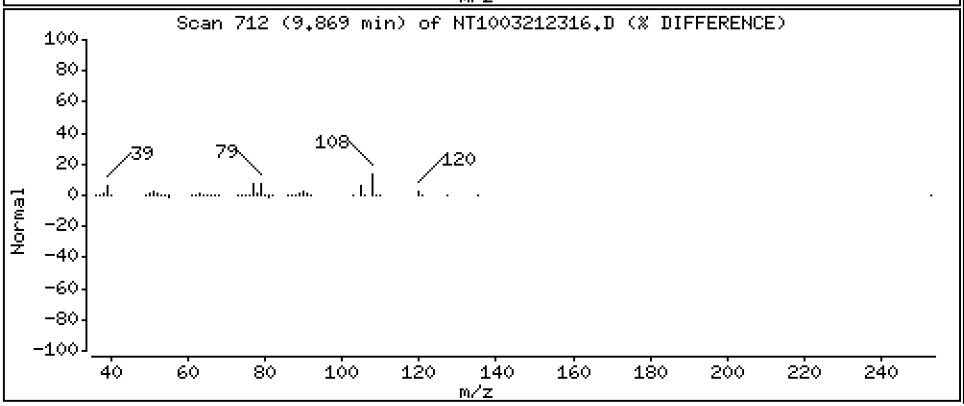












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Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD1

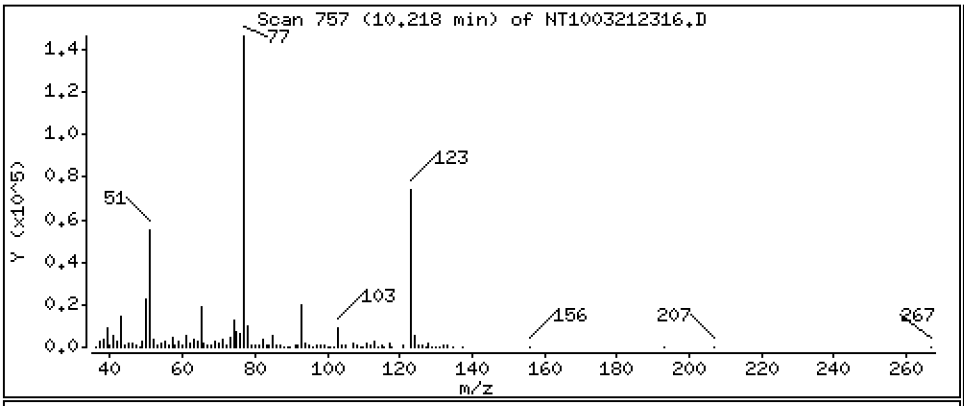
Operator: VTS

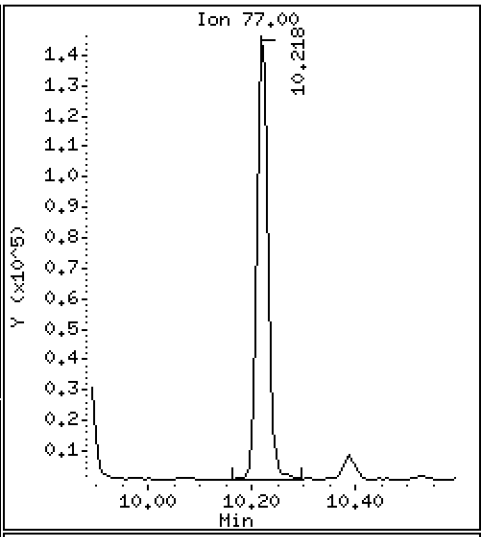
Column phase: ZB-5msi

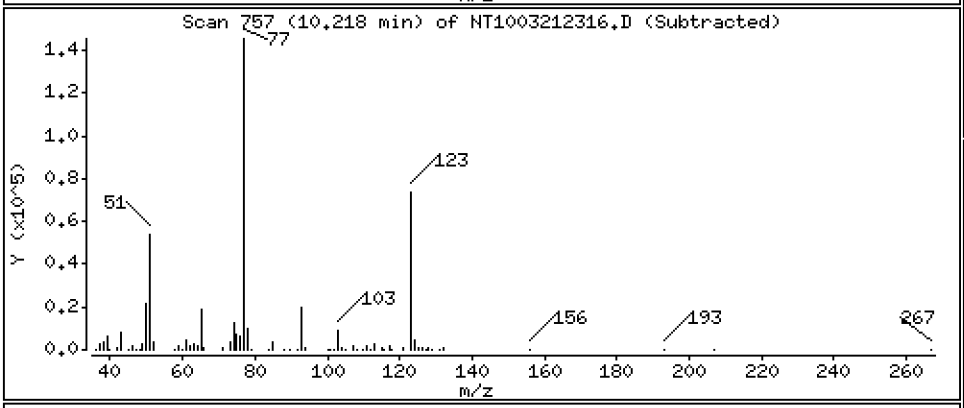
Column diameter: 0.25

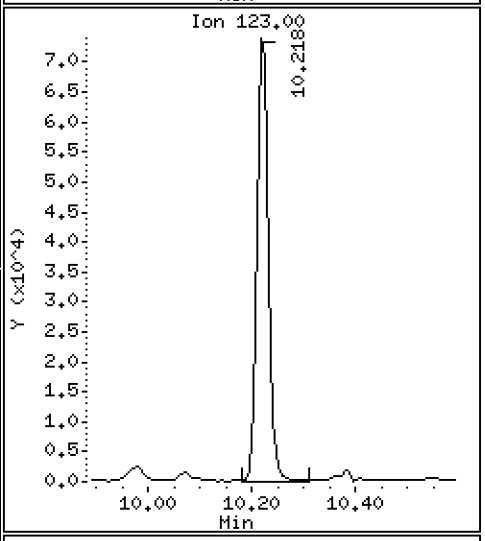
19 Nitrobenzene

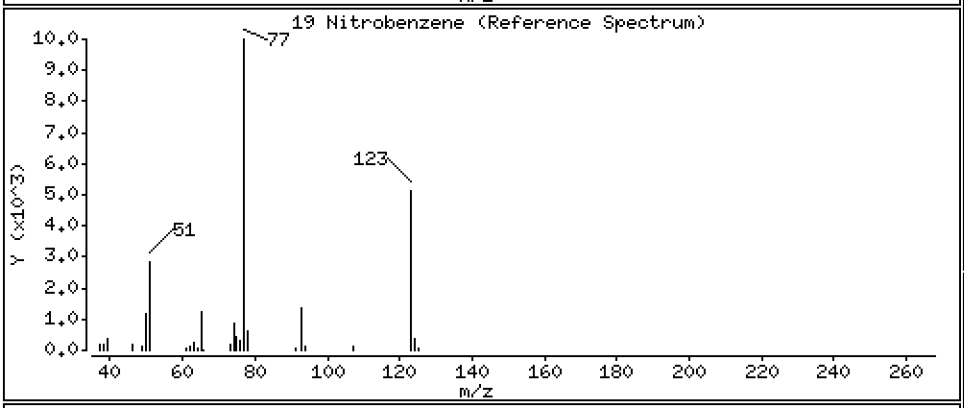
Concentration: 3.497 ug/mL

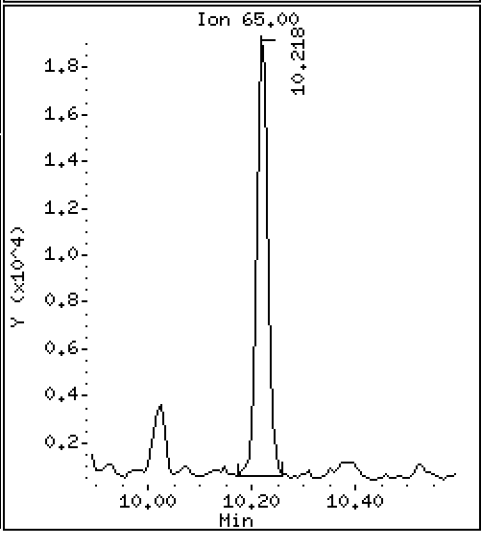


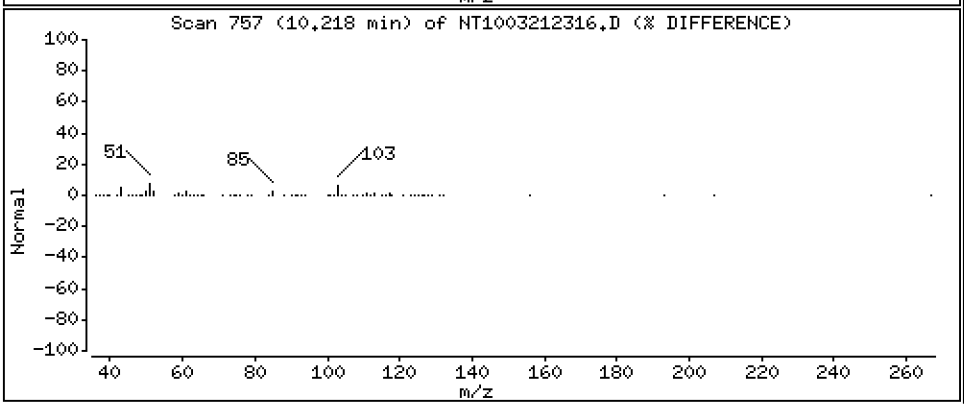












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212316.D

Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD1

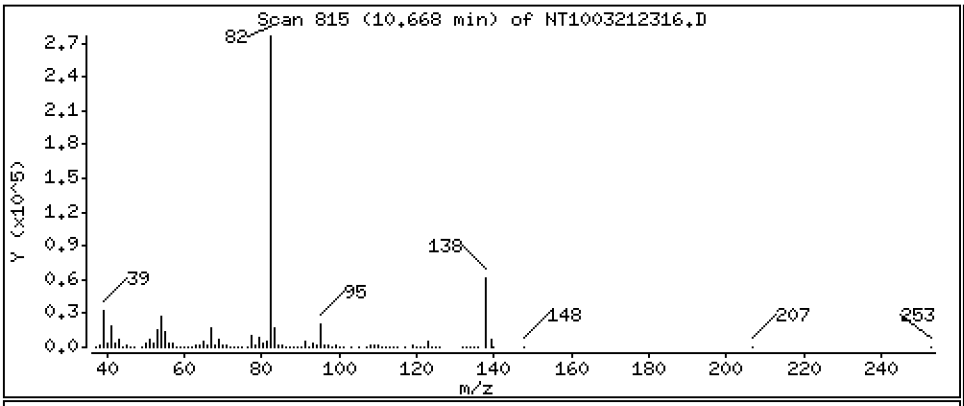
Operator: VTS

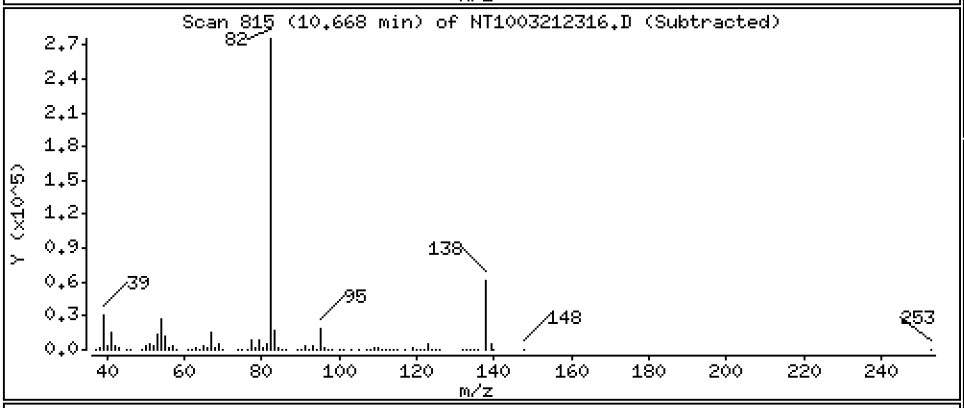
Column phase: ZB-5msi

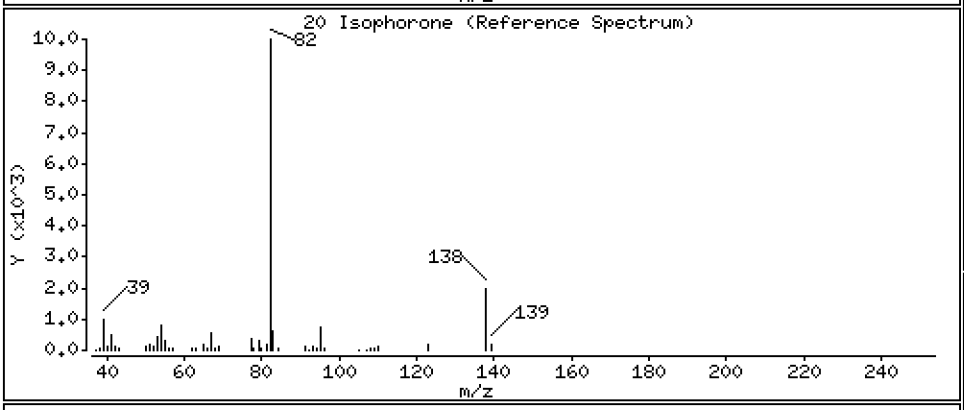
Column diameter: 0.25

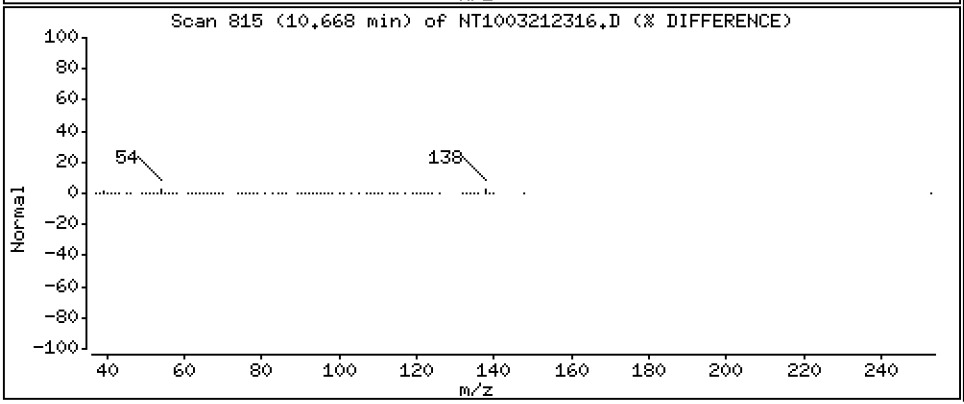
20 Isophorone

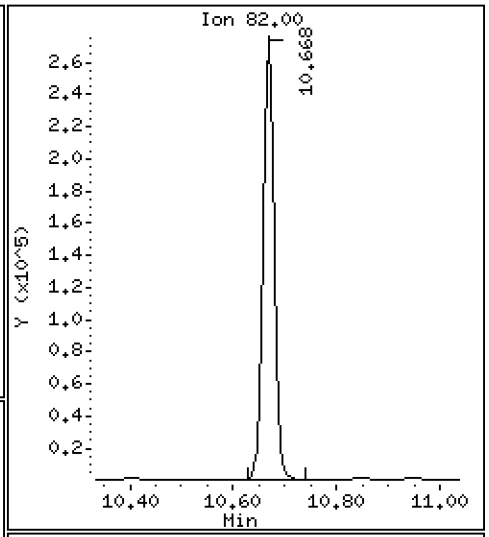
Concentration: 5.101 ug/mL

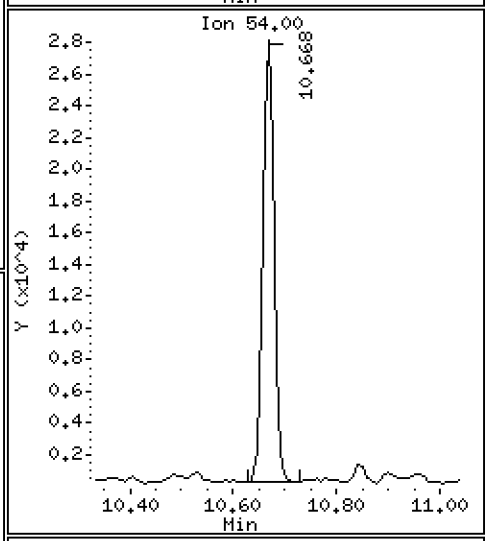


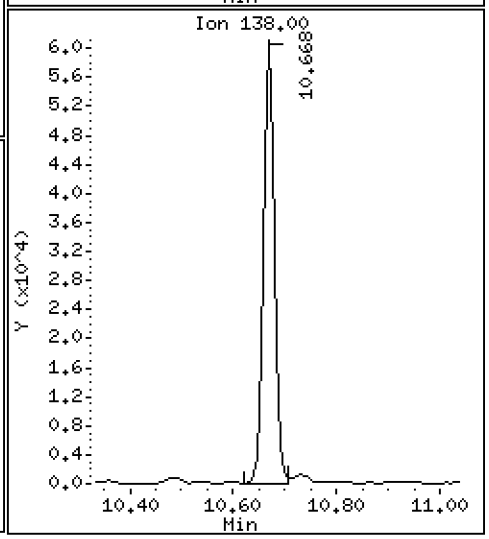












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Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD1

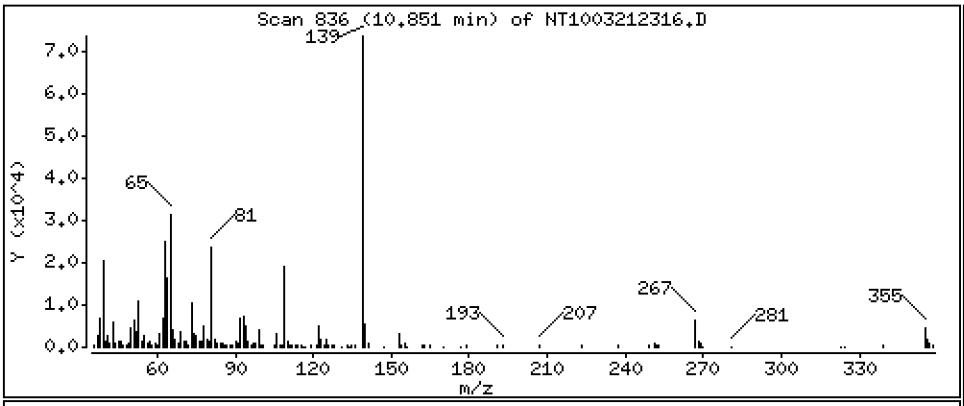
Operator: VTS

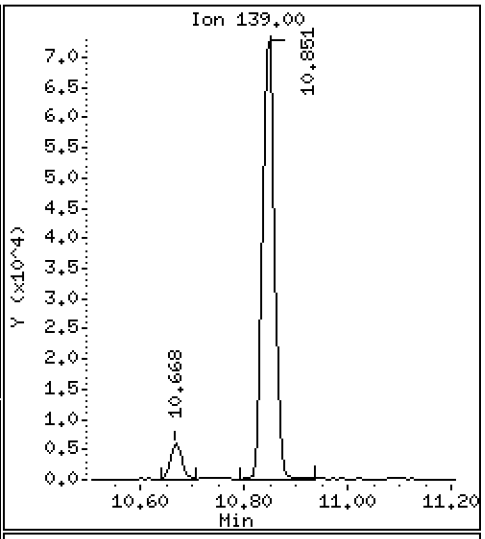
Column phase: ZB-5msi

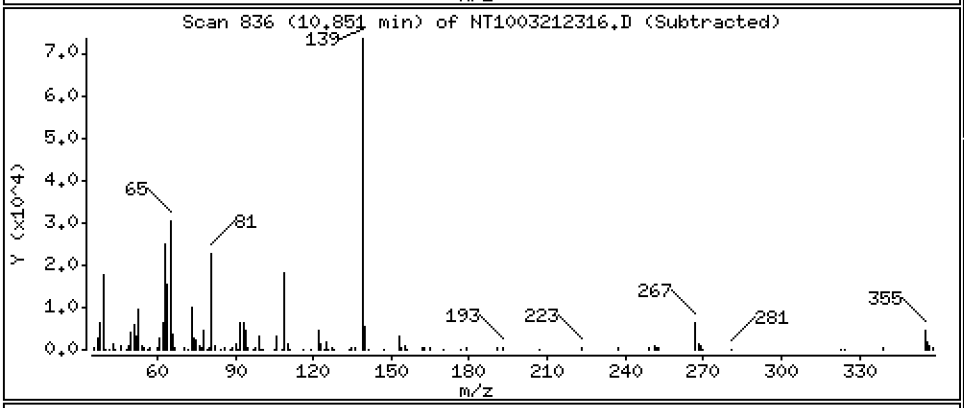
Column diameter: 0.25

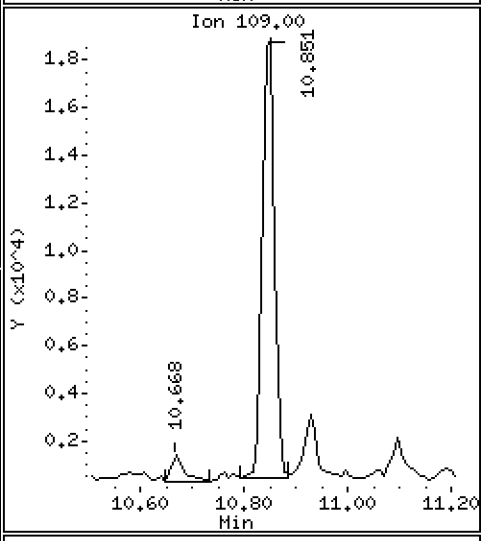
21 2-Nitrophenol

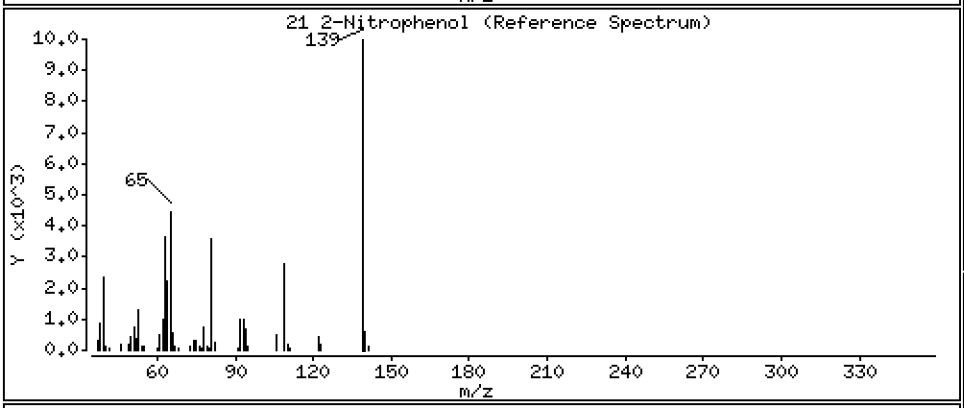
Concentration: 4.188 ug/mL

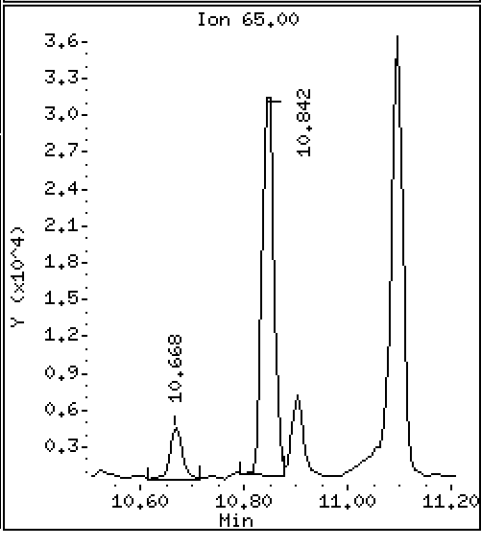


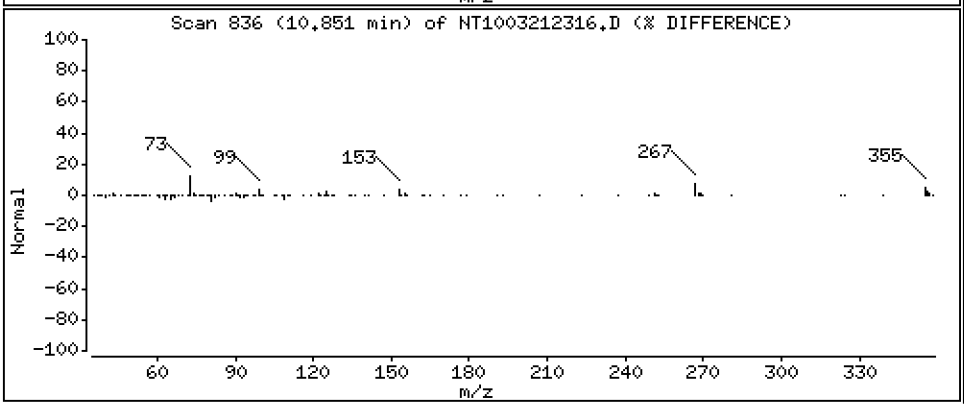












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Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD1

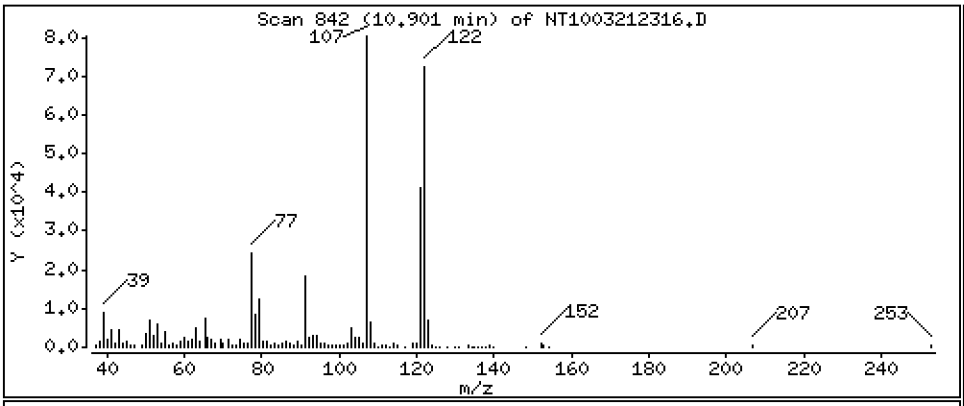
Operator: VTS

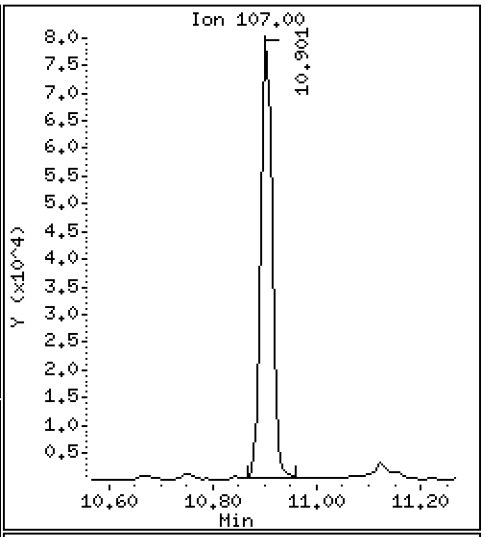
Column phase: ZB-5msi

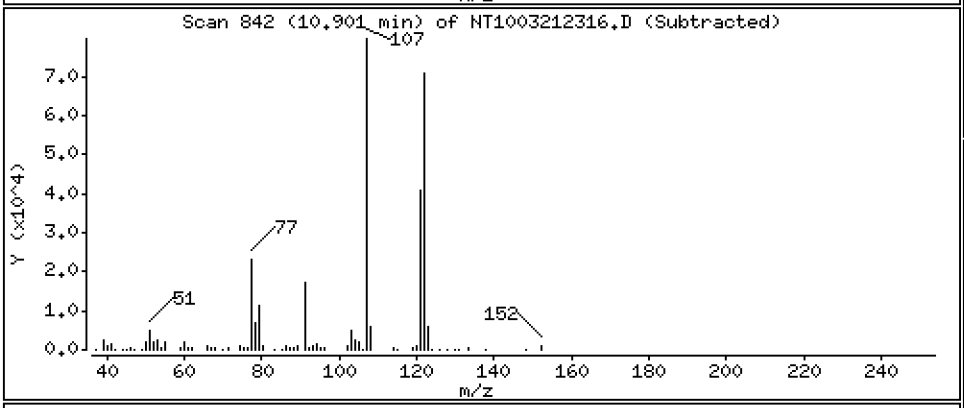
Column diameter: 0.25

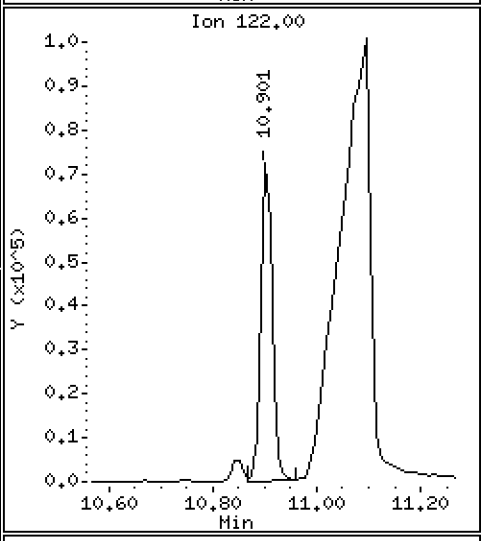
22 2,4-Dimethylphenol

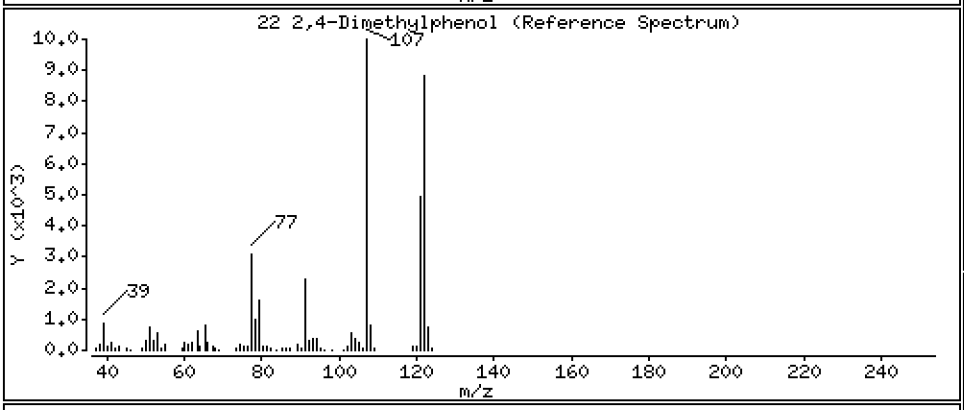
Concentration: 2.028 ug/mL

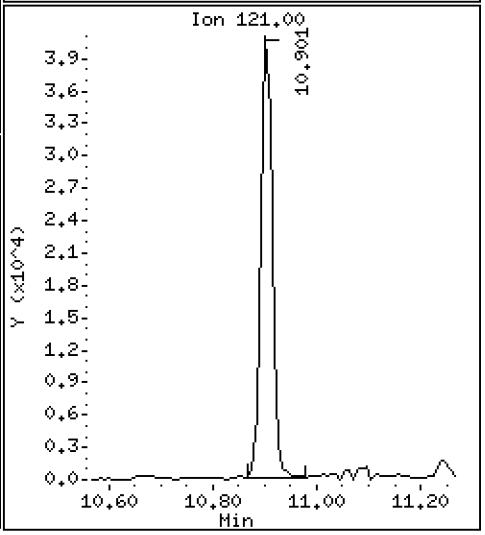


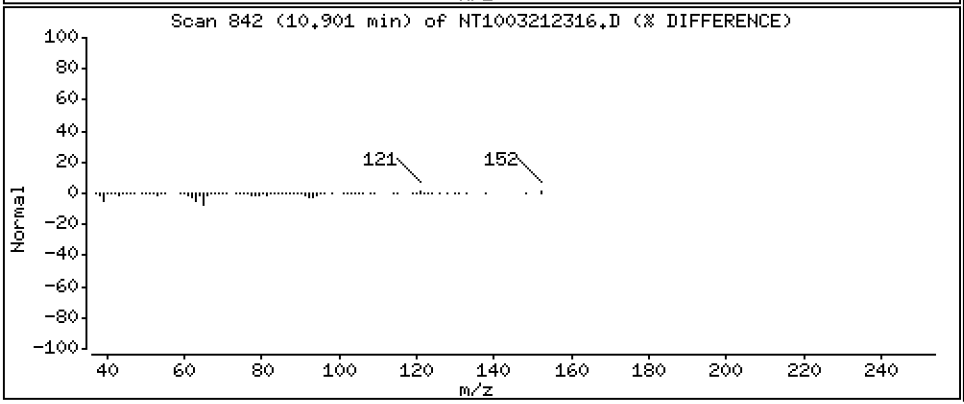












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Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD1

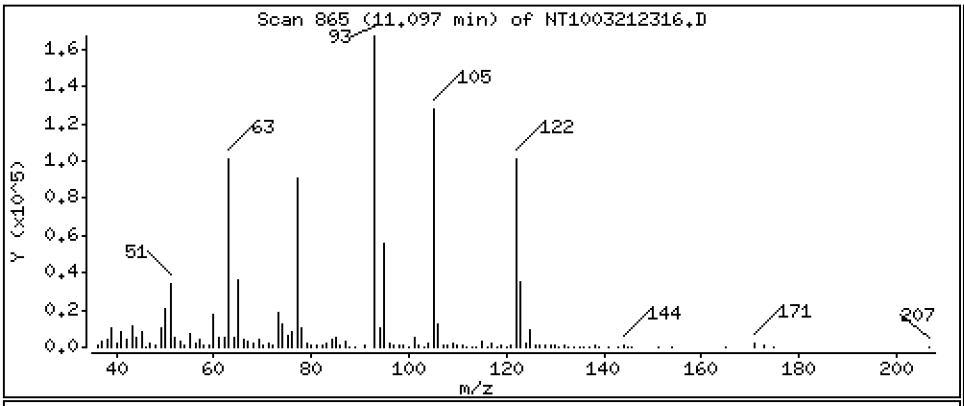
Operator: VTS

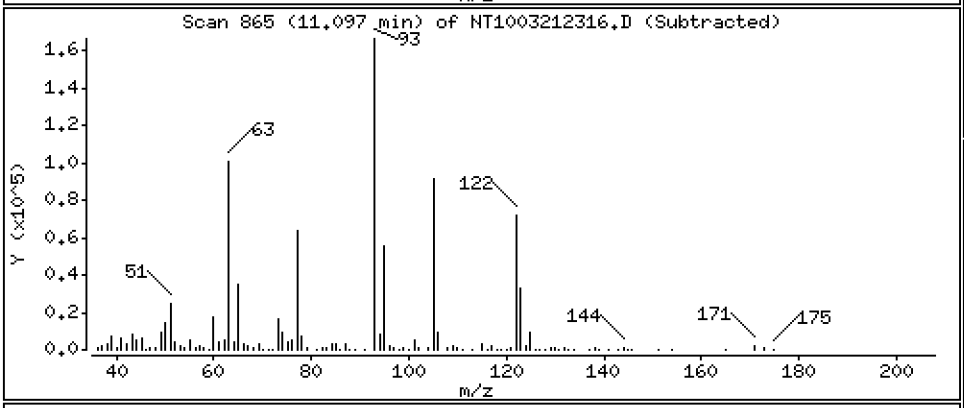
Column phase: ZB-5msi

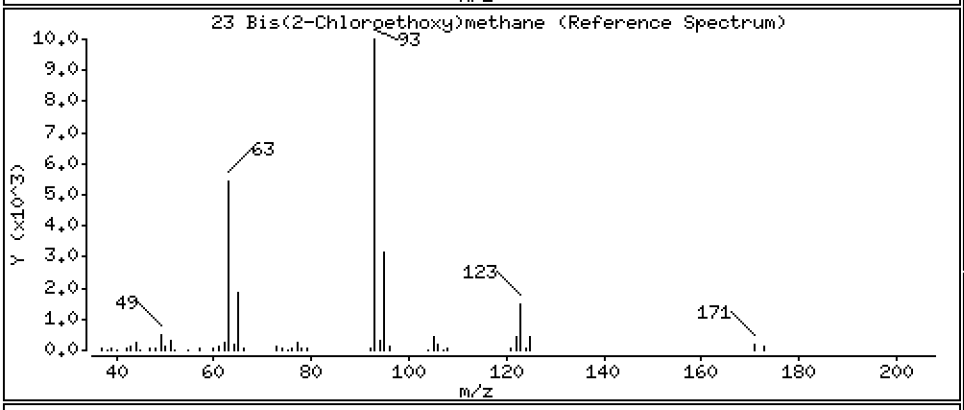
Column diameter: 0.25

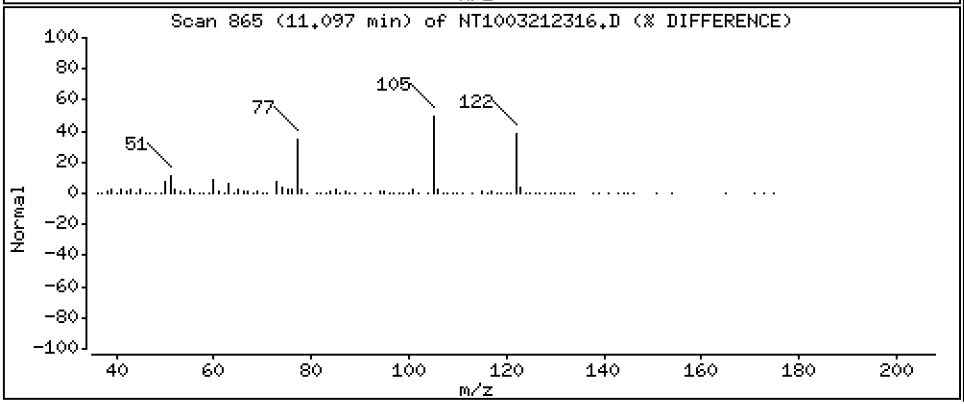
23 Bis(2-Chloroethoxy)methane

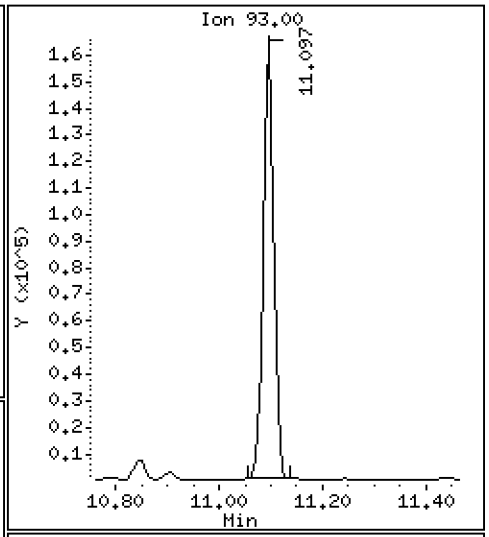
Concentration: 4.328 ug/mL

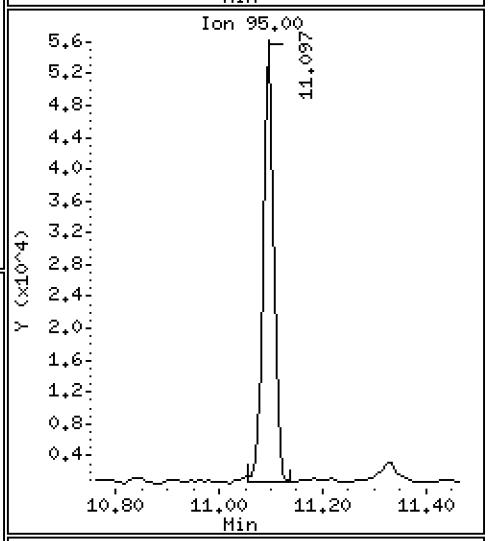


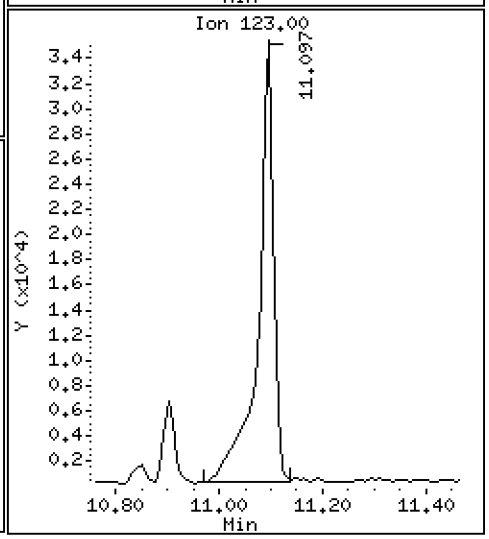












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Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD1

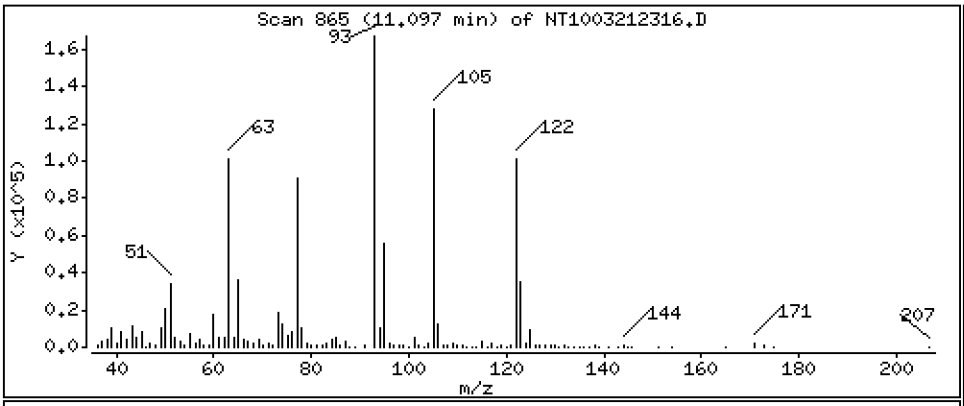
Operator: VTS

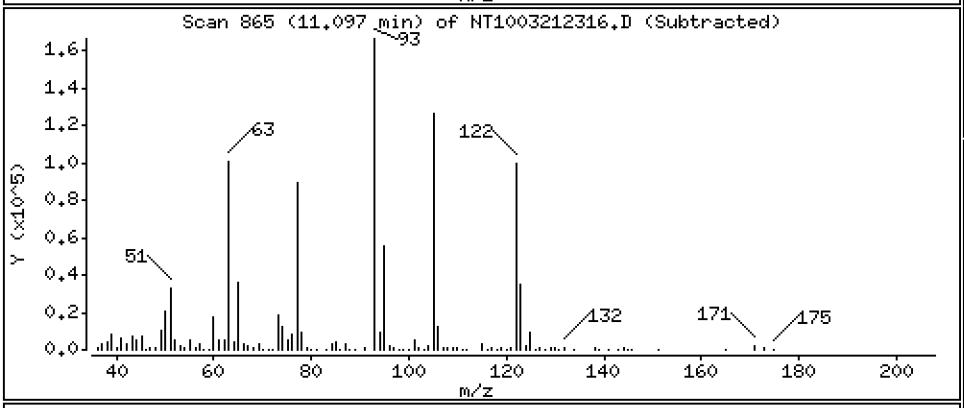
Column phase: ZB-5msi

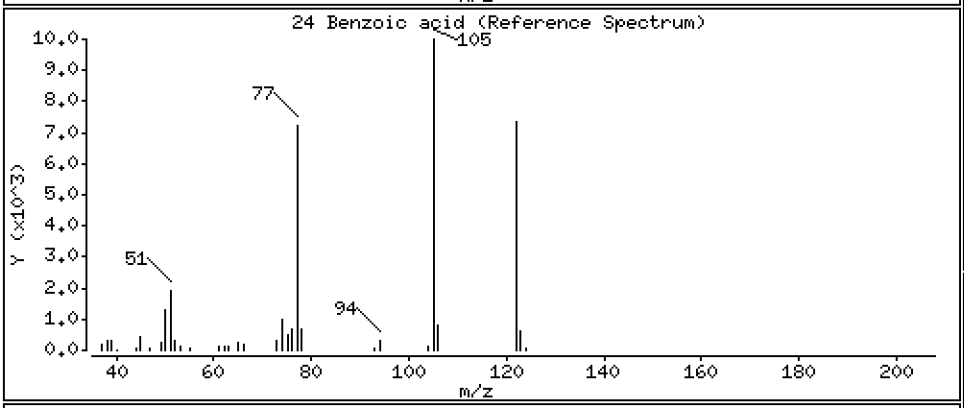
Column diameter: 0.25

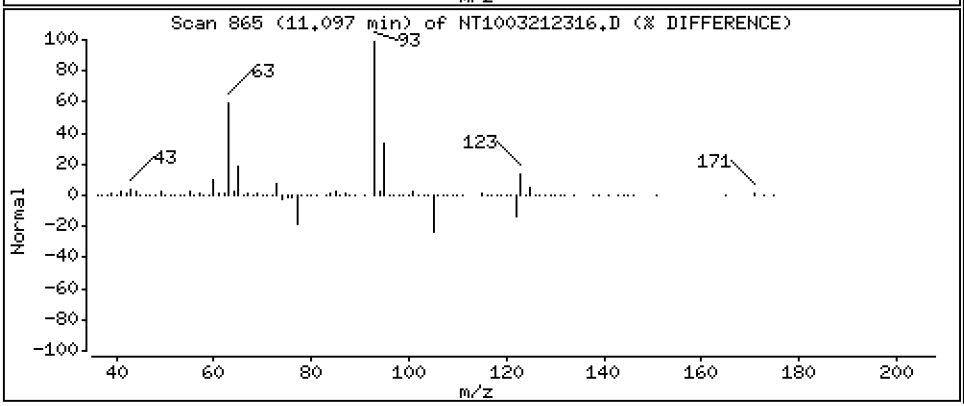
24 Benzoic acid

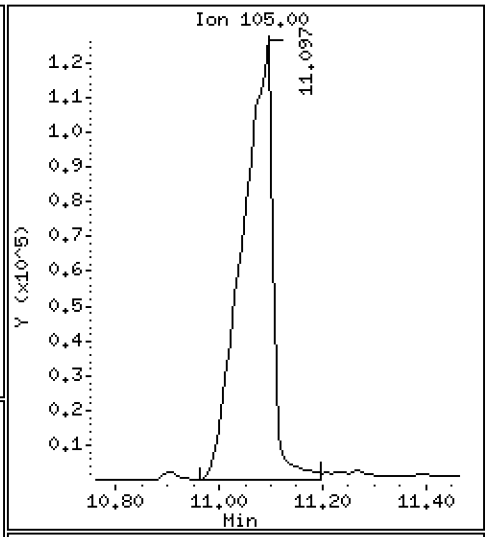
Concentration: 15.31 ug/mL

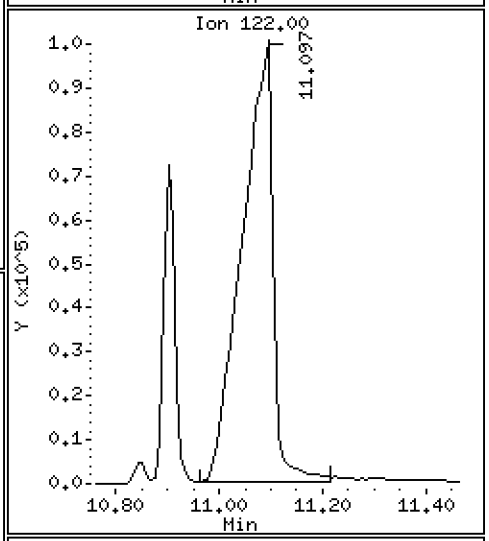


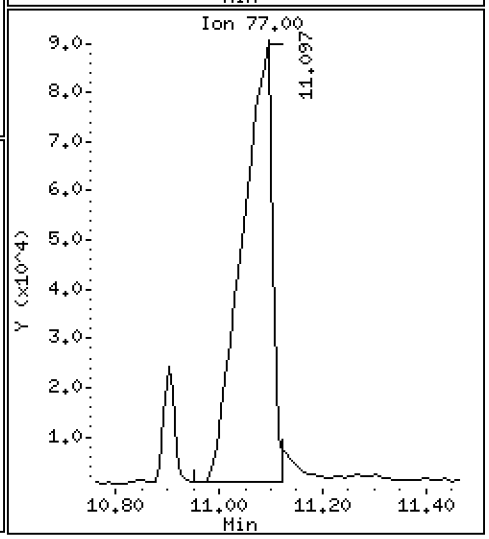












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Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD1

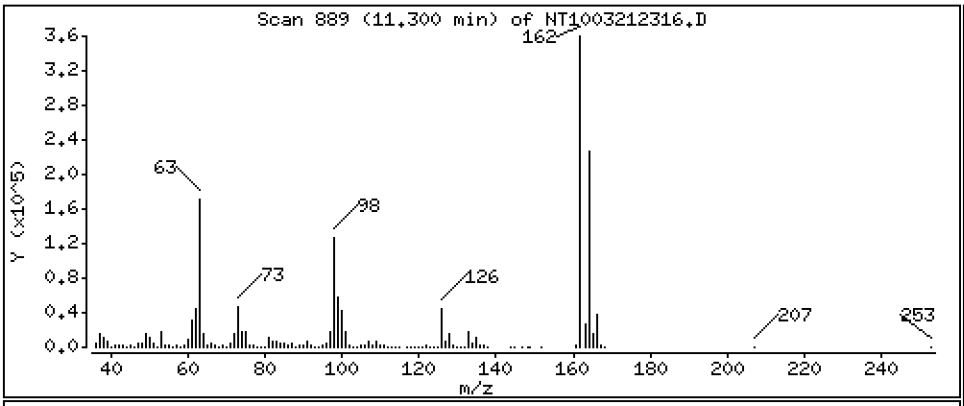
Operator: VTS

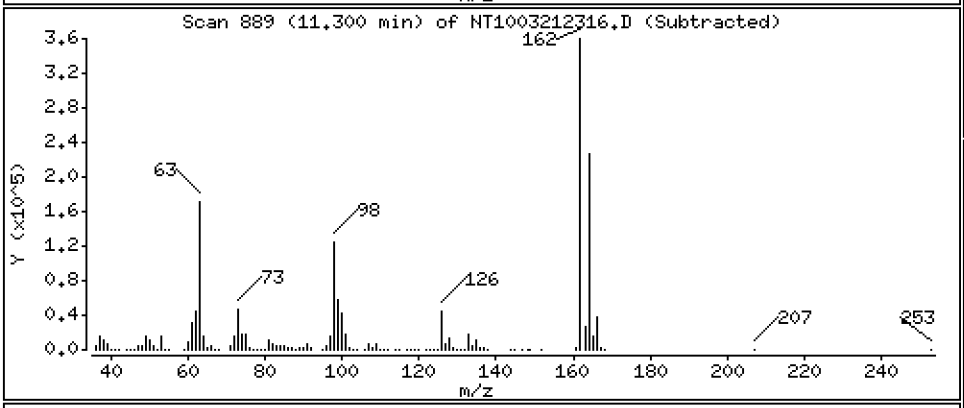
Column phase: ZB-5msi

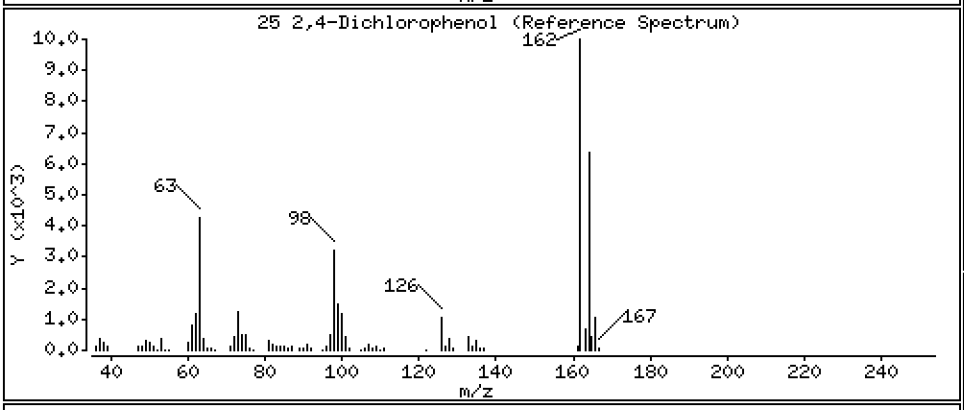
Column diameter: 0.25

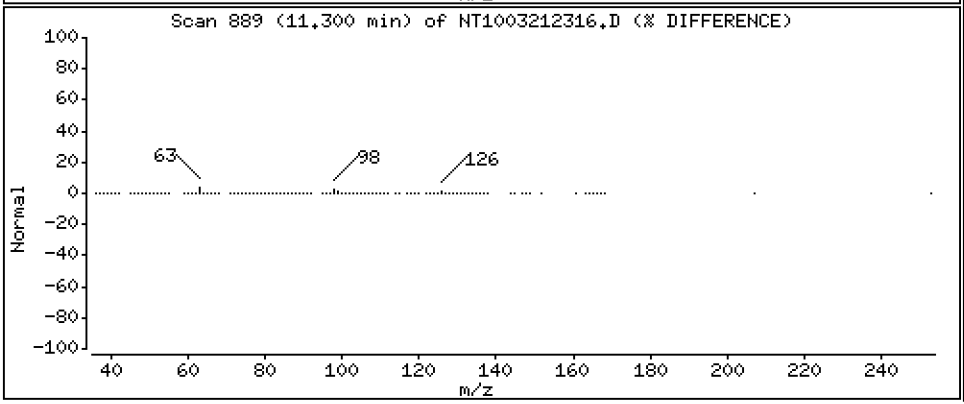
25 2,4-Dichlorophenol

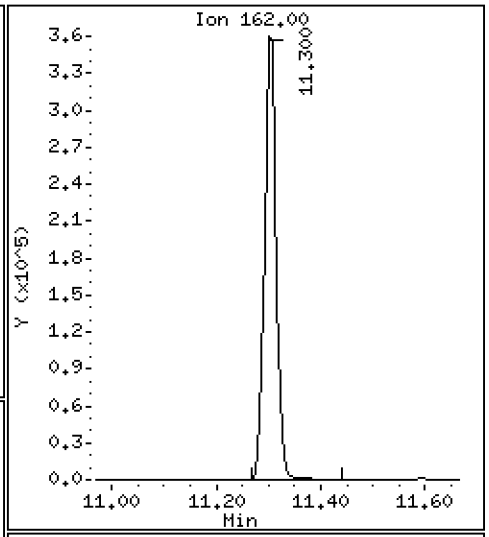
Concentration: 13.33 ug/mL

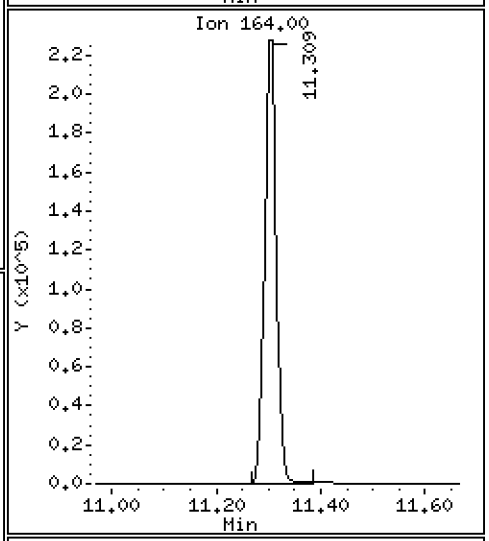


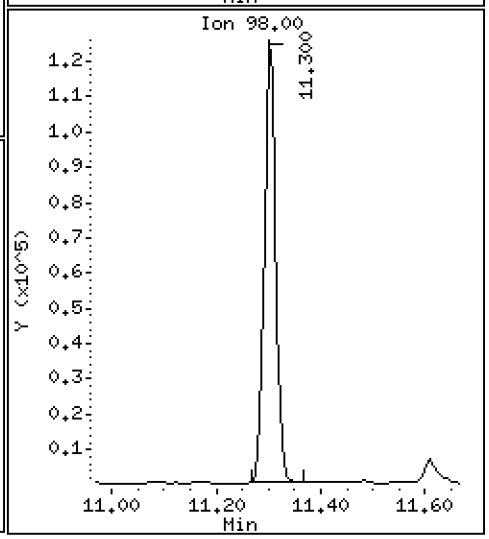












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Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD1

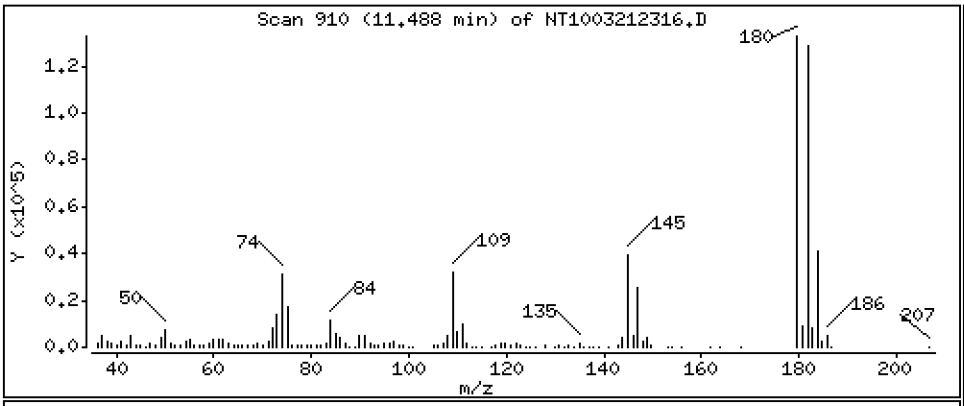
Operator: VTS

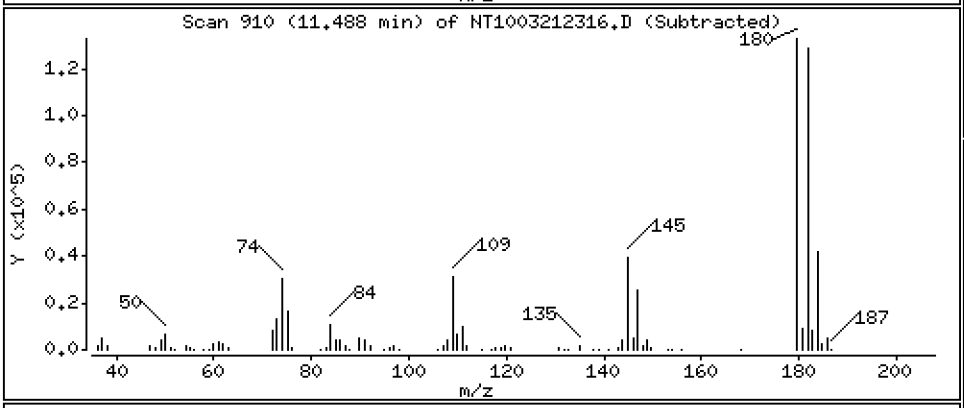
Column phase: ZB-5msi

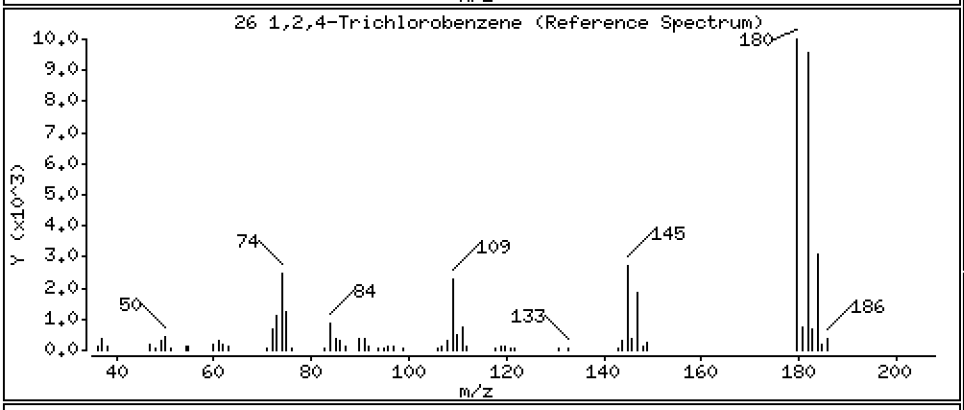
Column diameter: 0.25

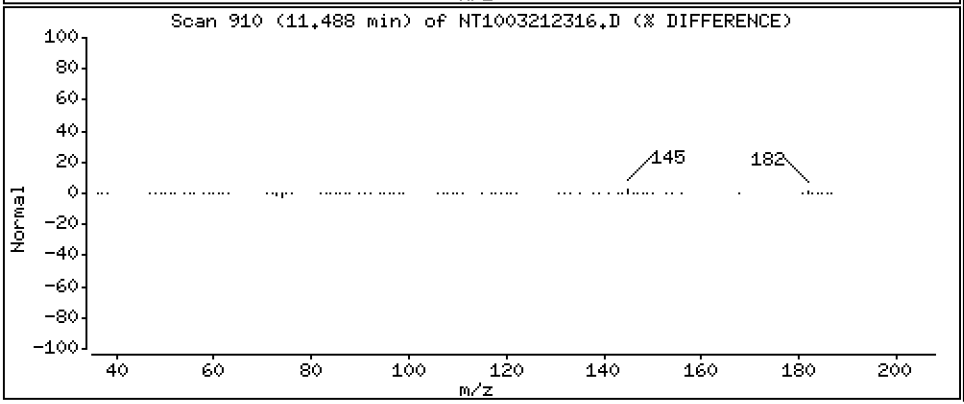
26 1,2,4-Trichlorobenzene

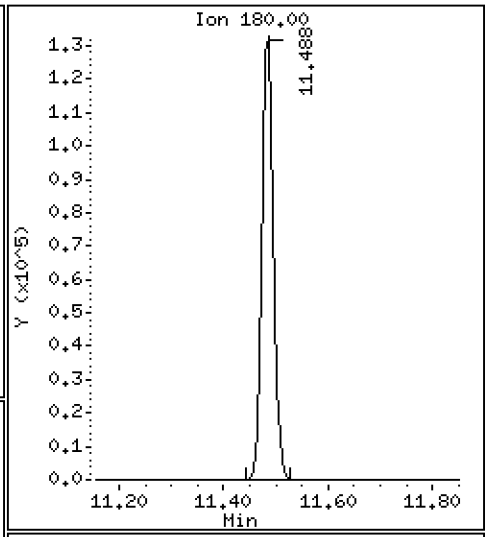
Concentration: 3.724 ug/mL

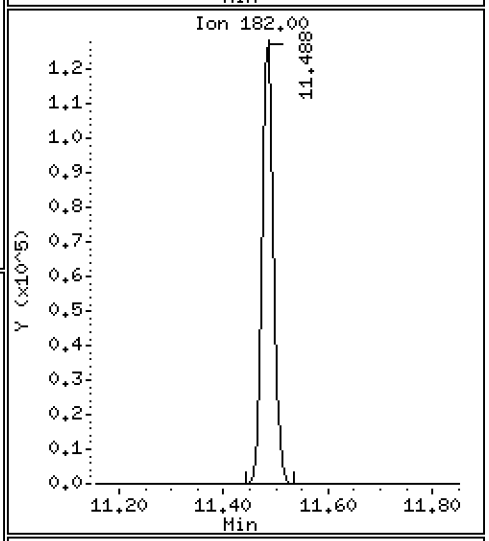


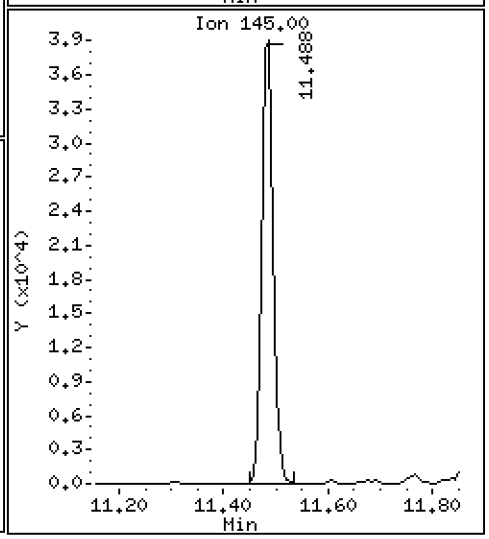












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212316.D

Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD1

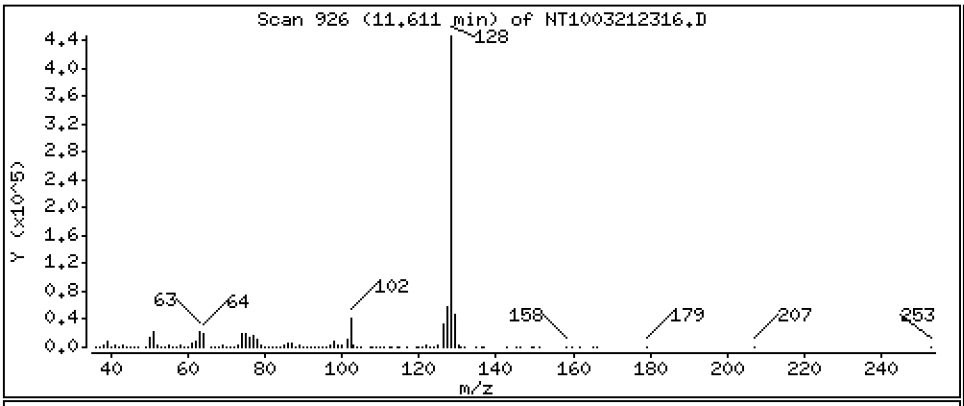
Operator: VTS

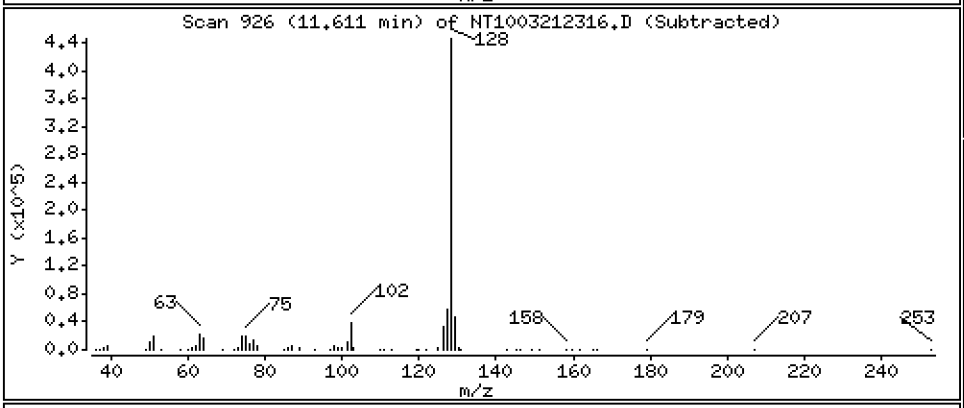
Column phase: ZB-5msi

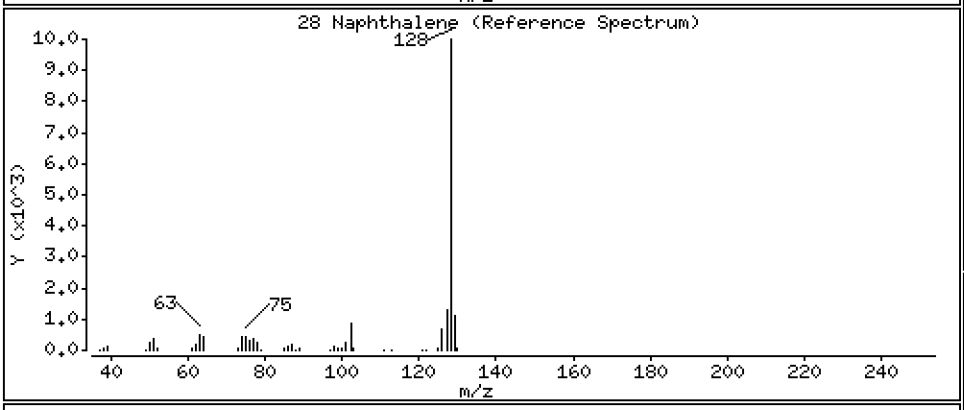
Column diameter: 0.25

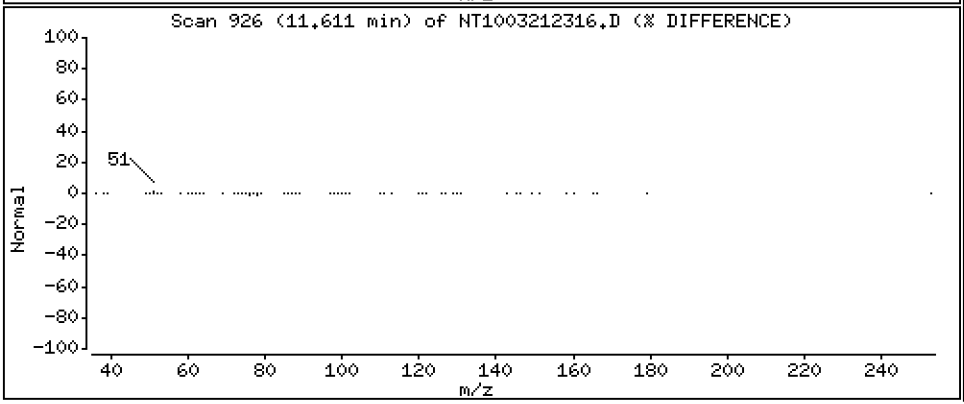
28 Naphthalene

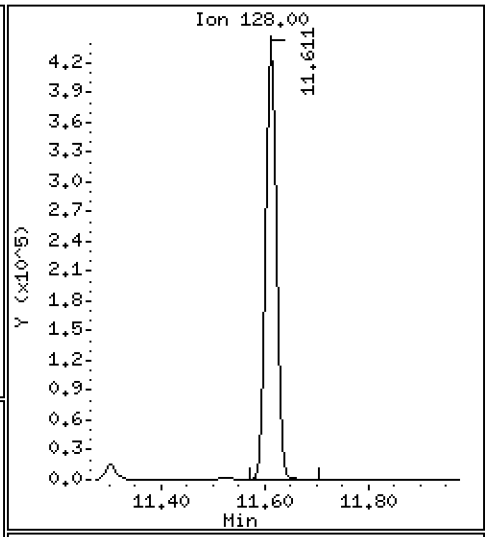
Concentration: 3.851 ug/mL

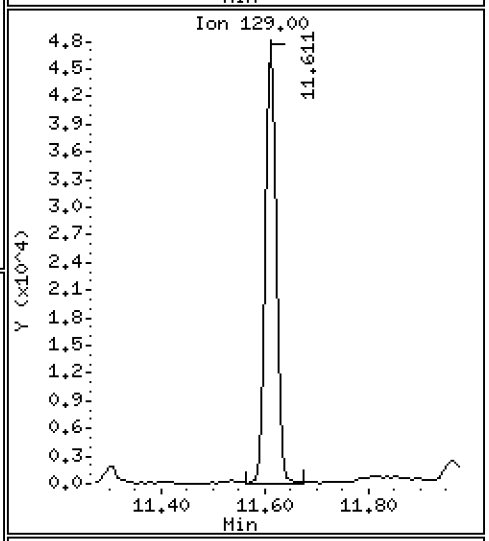


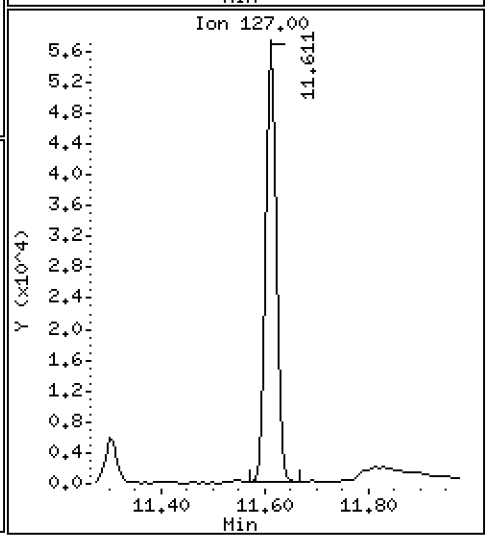












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Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD1

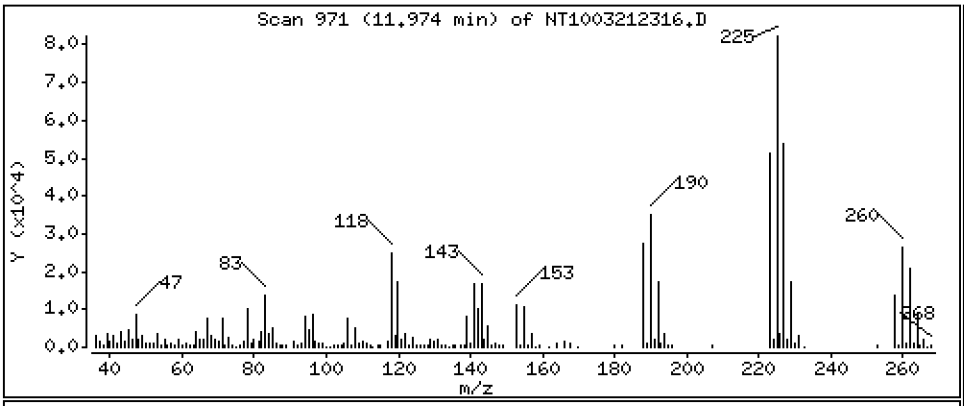
Operator: VTS

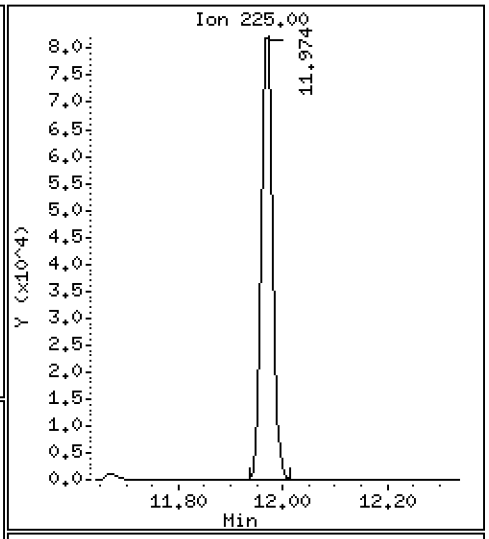
Column phase: ZB-5msi

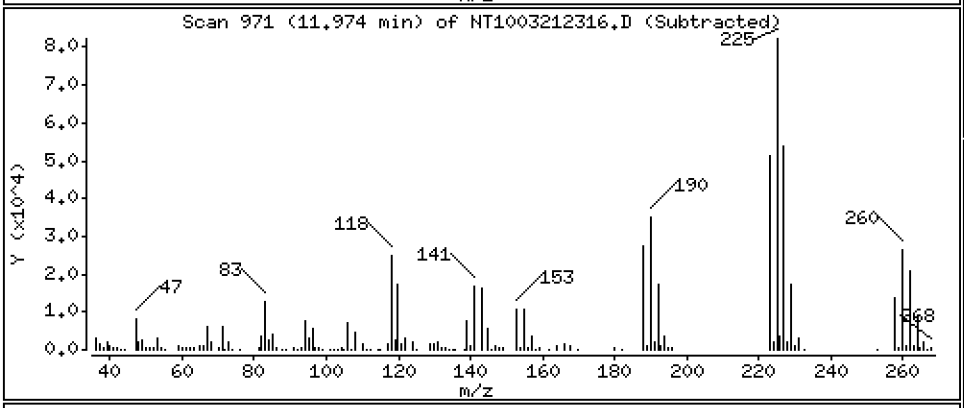
Column diameter: 0.25

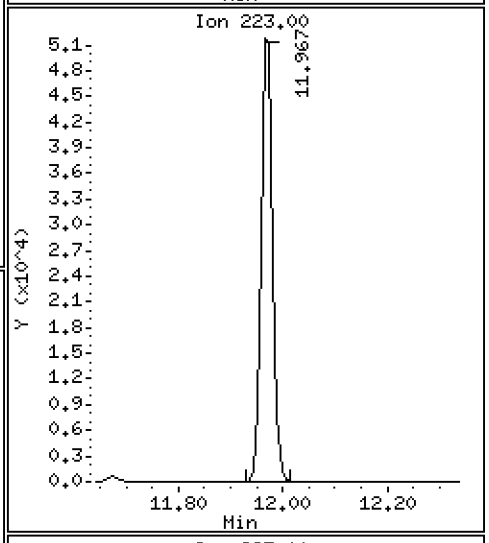
30 Hexachlorobutadiene

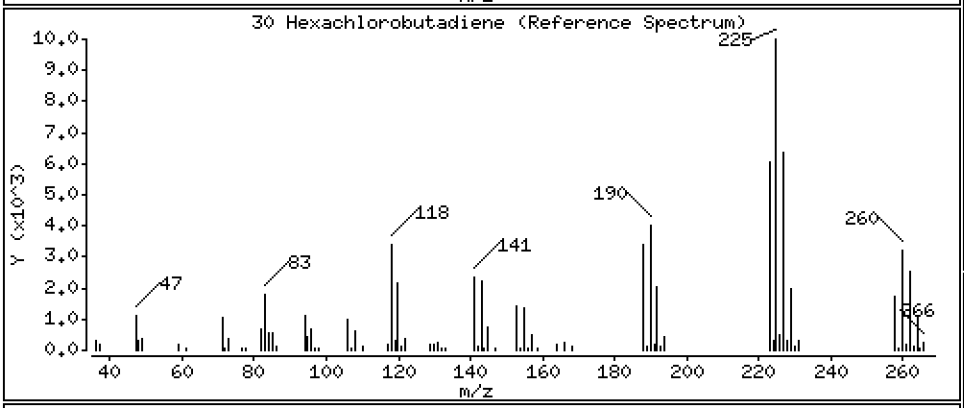
Concentration: 3.966 ug/mL

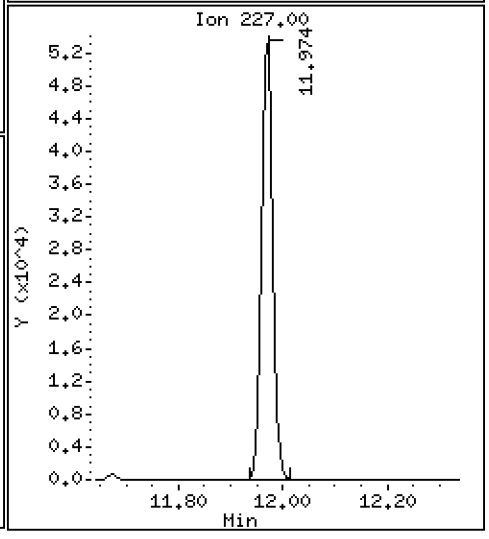


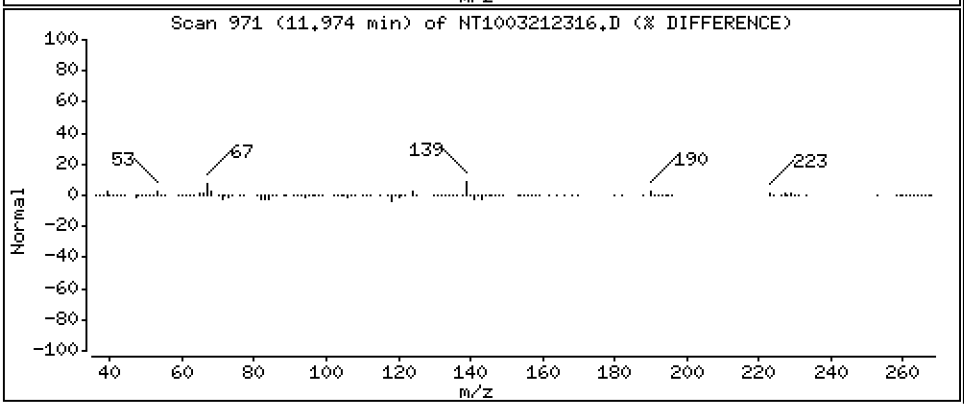












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Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD1

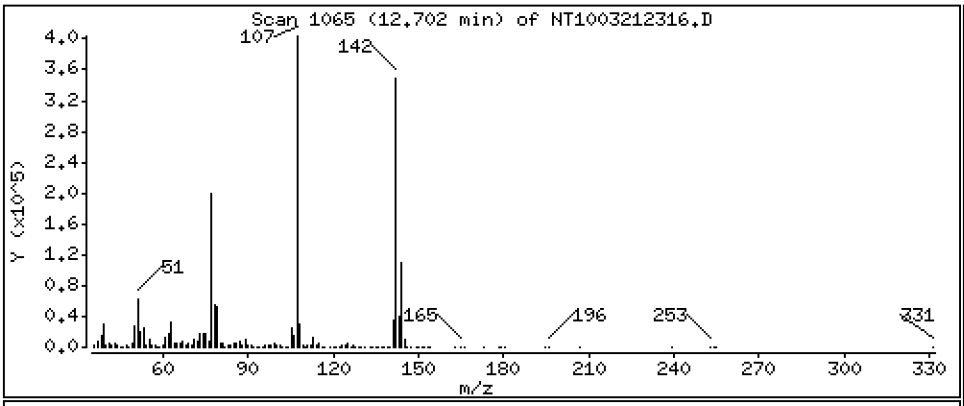
Operator: VTS

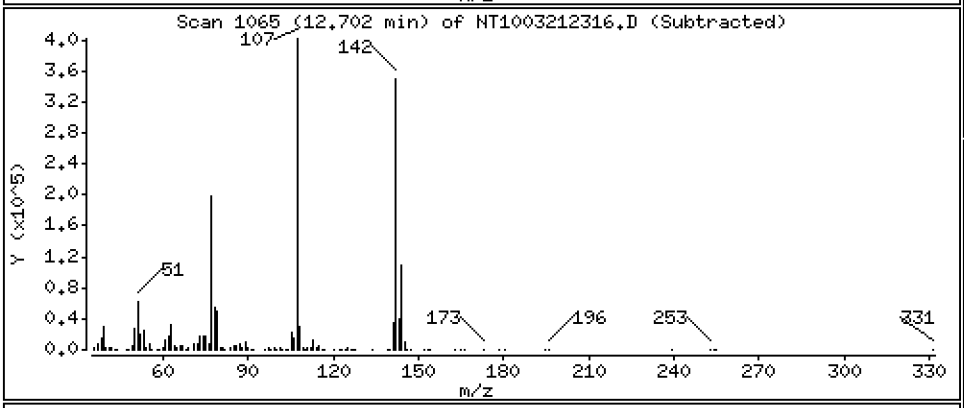
Column phase: ZB-5msi

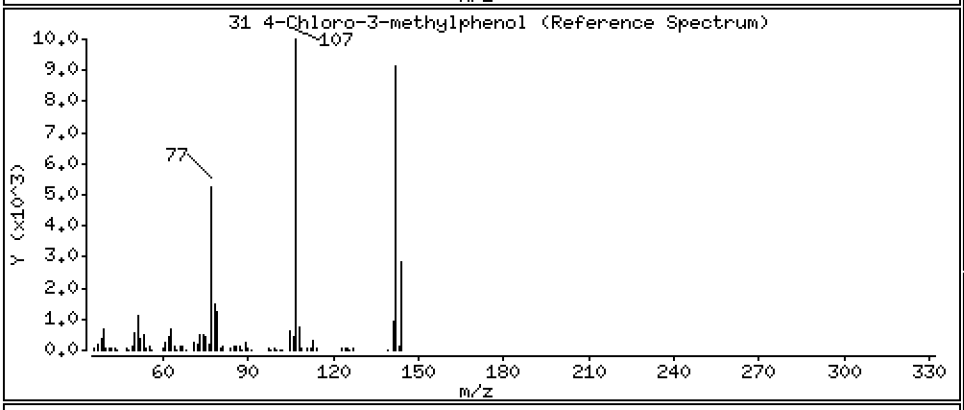
Column diameter: 0.25

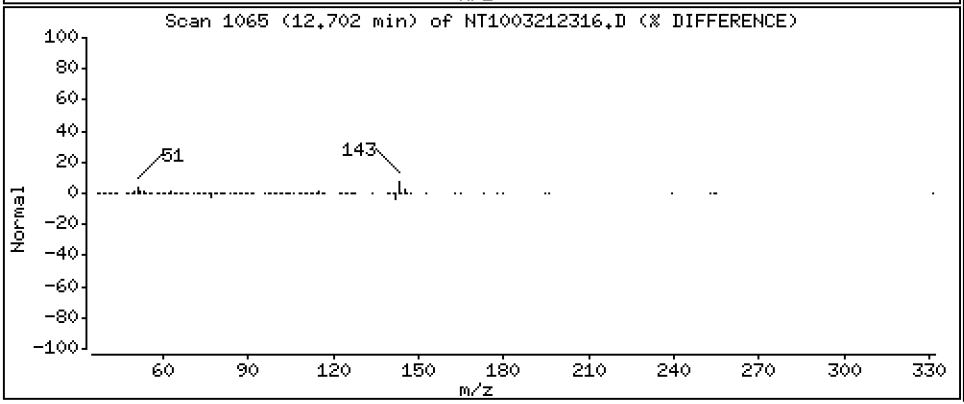
31 4-Chloro-3-methylphenol

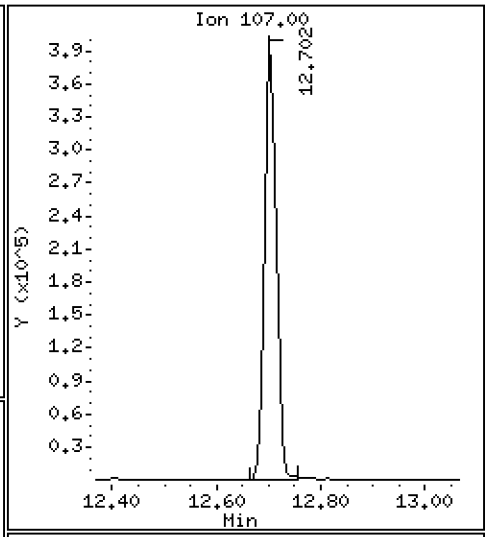
Concentration: 11.47 ug/mL

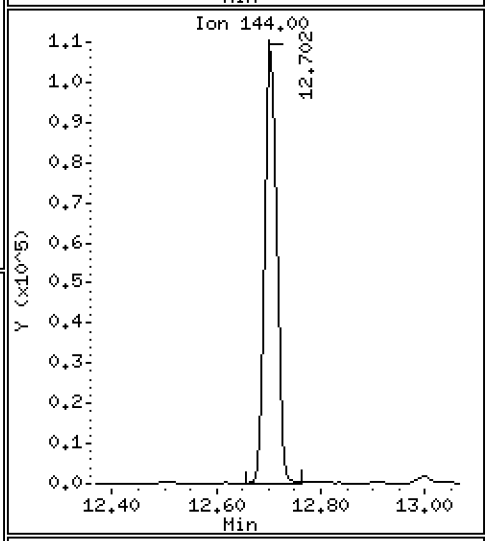


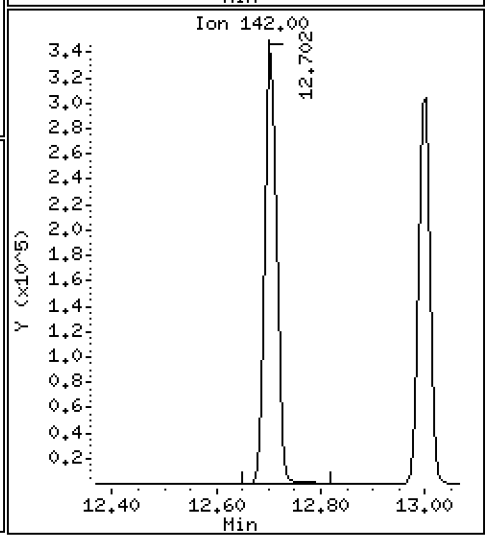












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Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD1

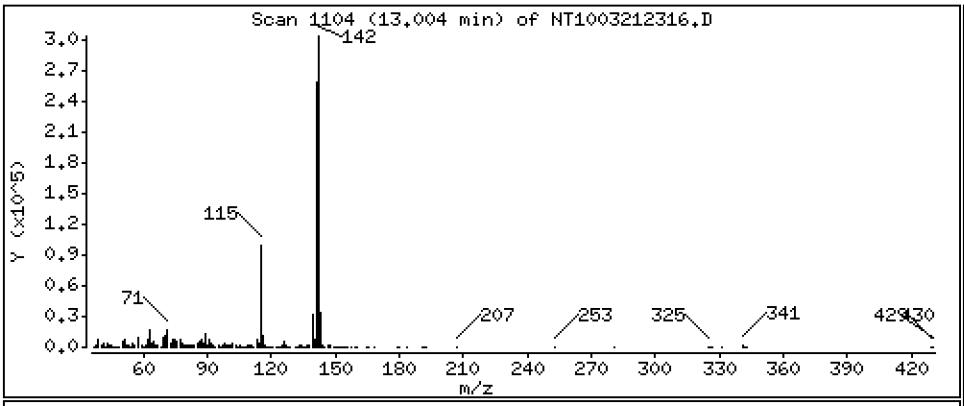
Operator: VTS

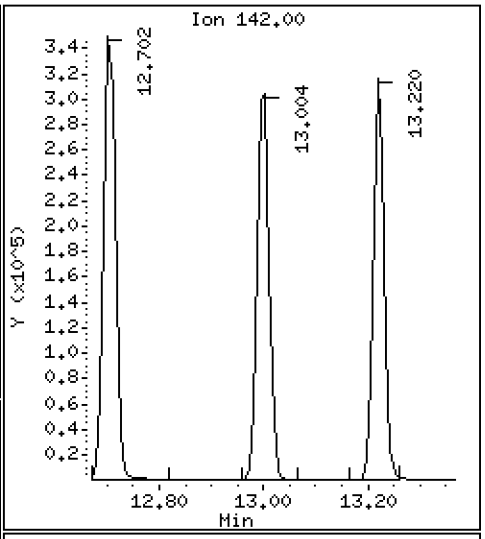
Column phase: ZB-5msi

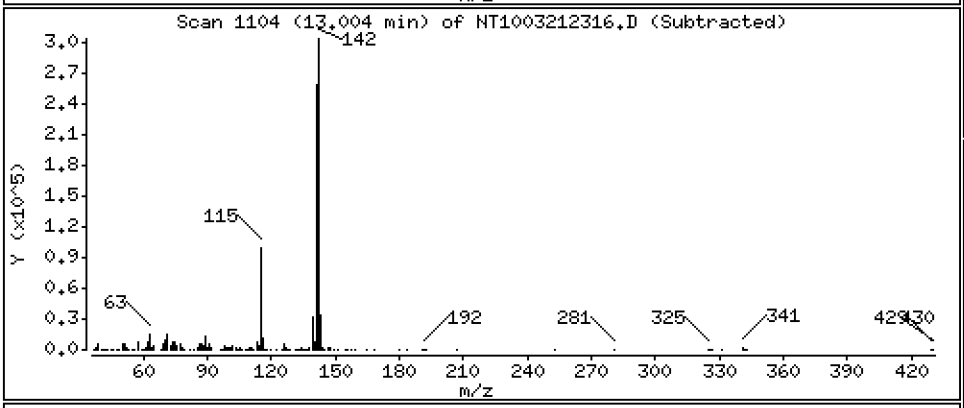
Column diameter: 0.25

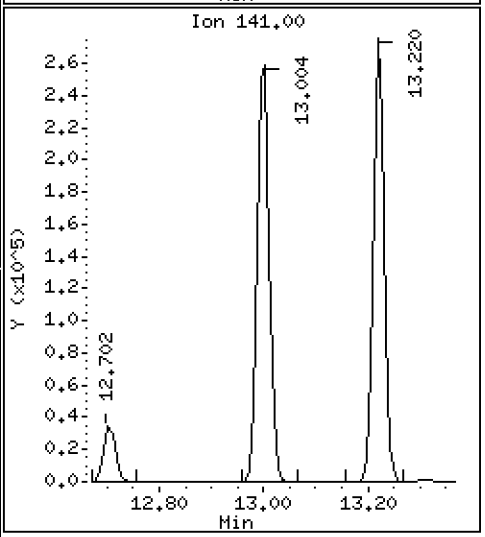
32 2-Methylnaphthalene

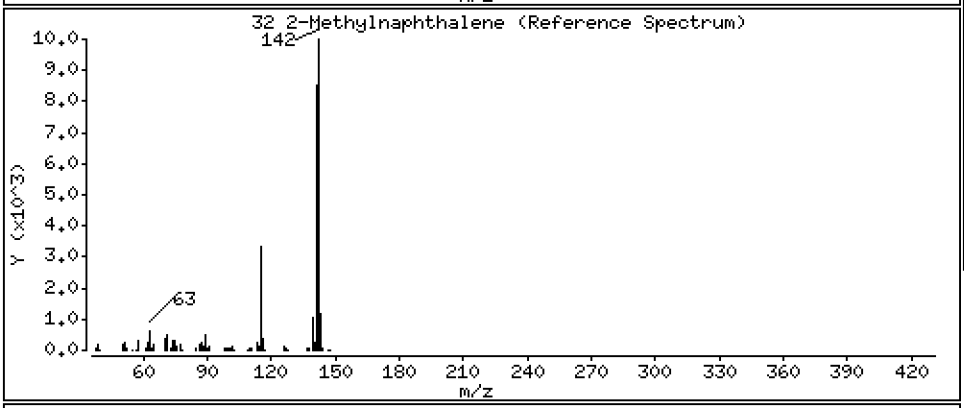
Concentration: 3.923 ug/mL

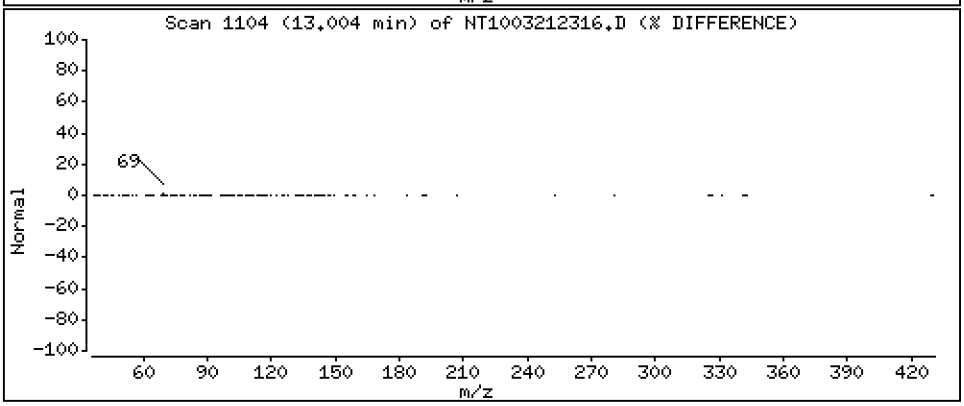












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Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD1

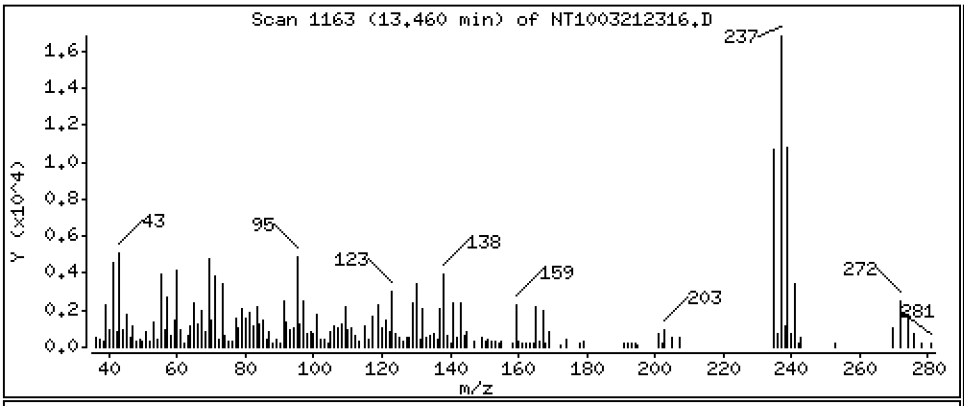
Operator: VTS

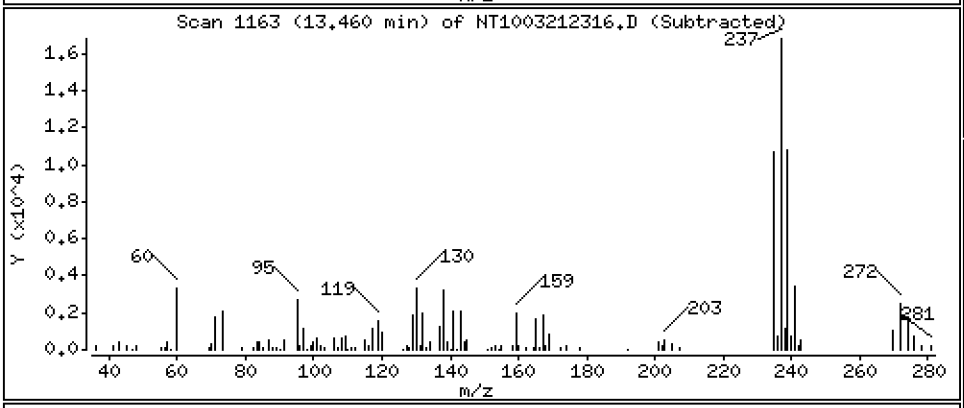
Column phase: ZB-5msi

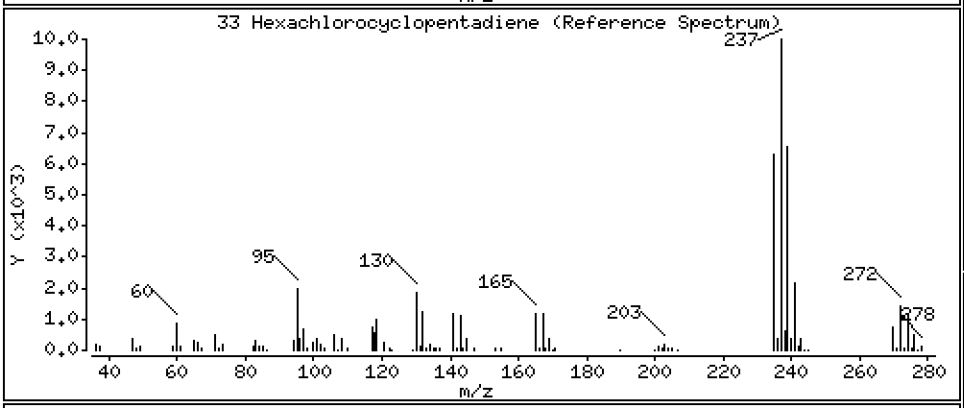
Column diameter: 0.25

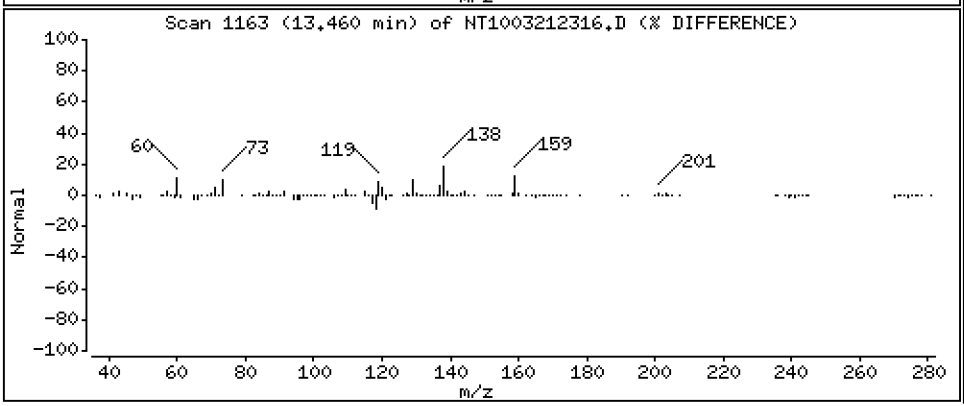
33 Hexachlorocyclopentadiene

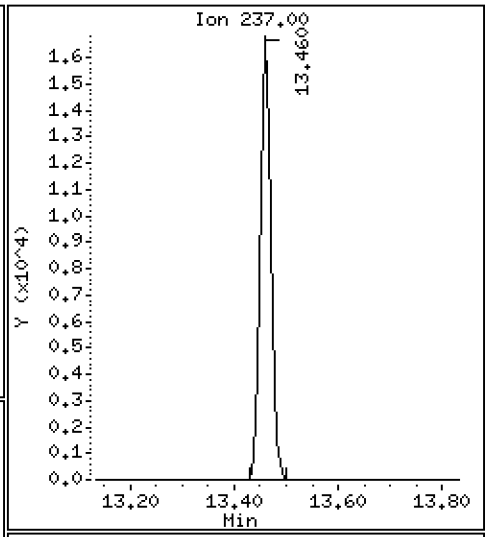
Concentration: 0.7242 ug/mL

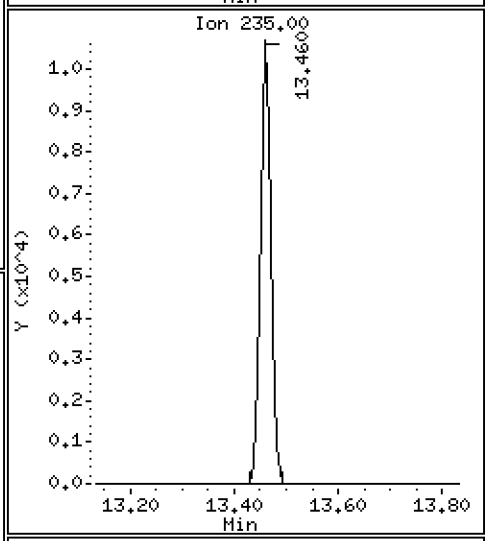


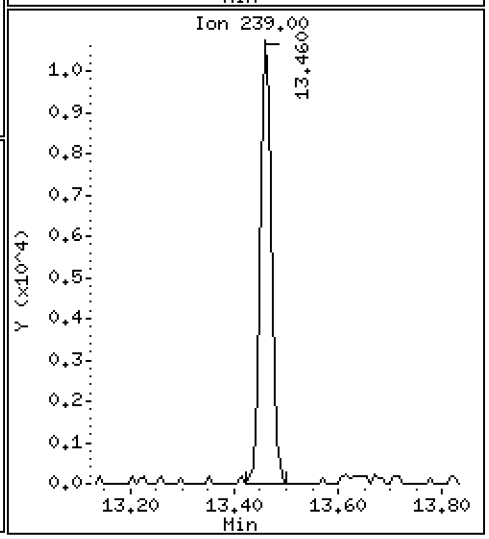












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Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD1

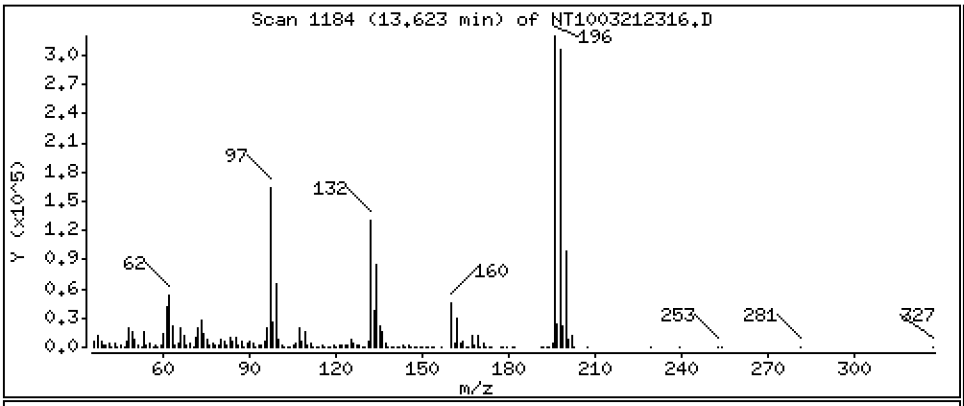
Operator: VTS

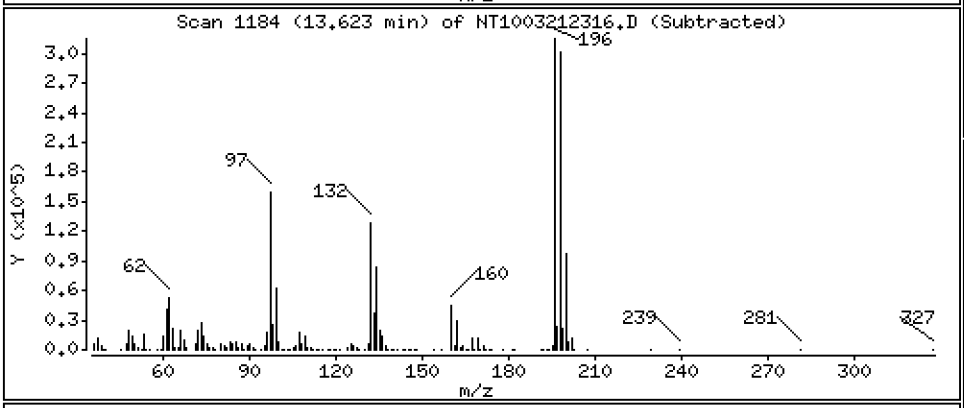
Column phase: ZB-5msi

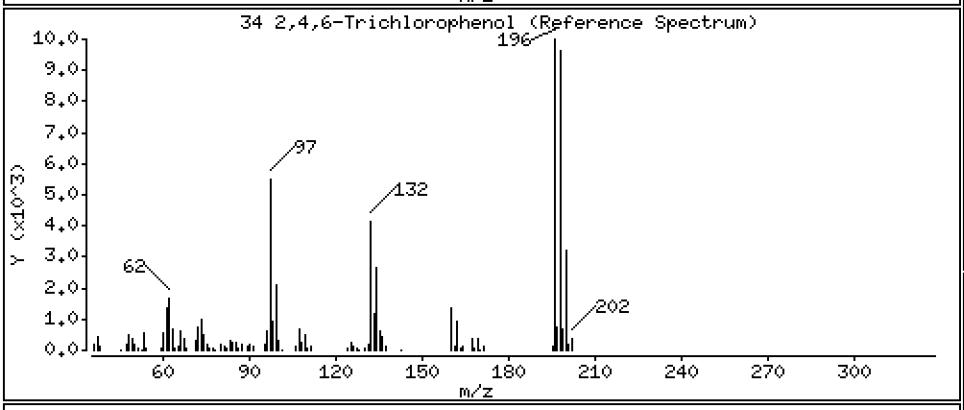
Column diameter: 0.25

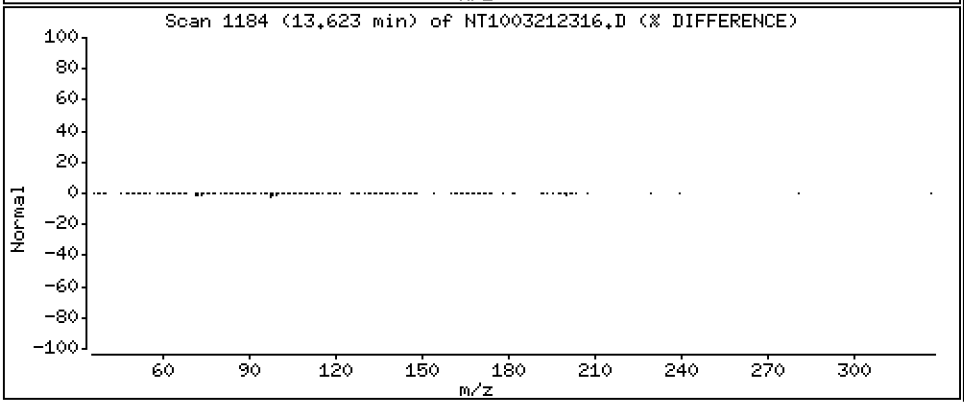
34 2,4,6-Trichlorophenol

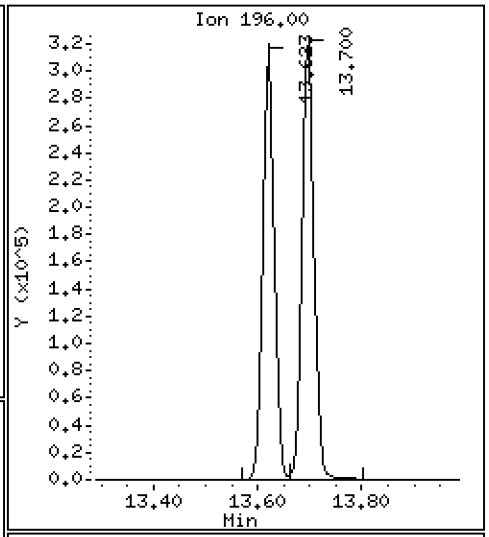
Concentration: 12.87 ug/mL

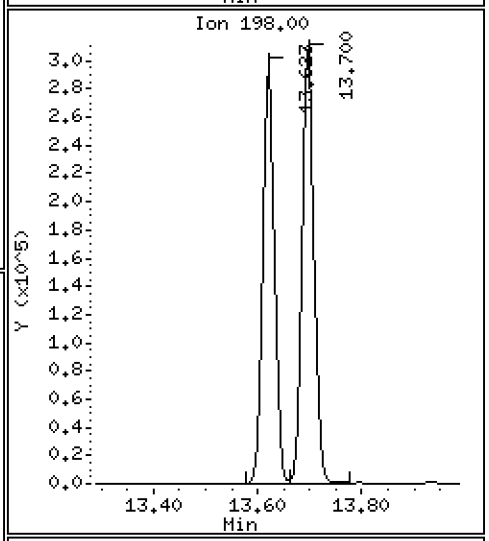


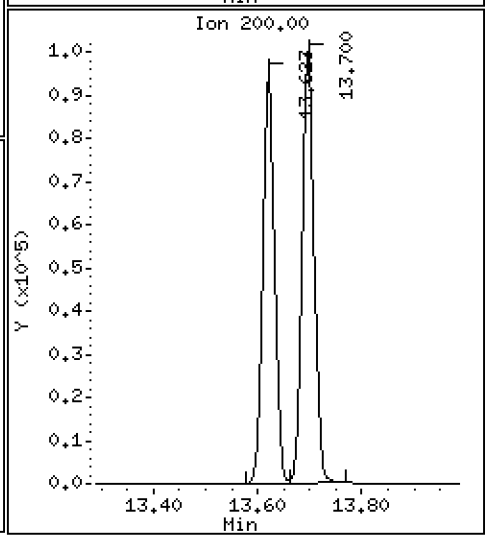












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Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD1

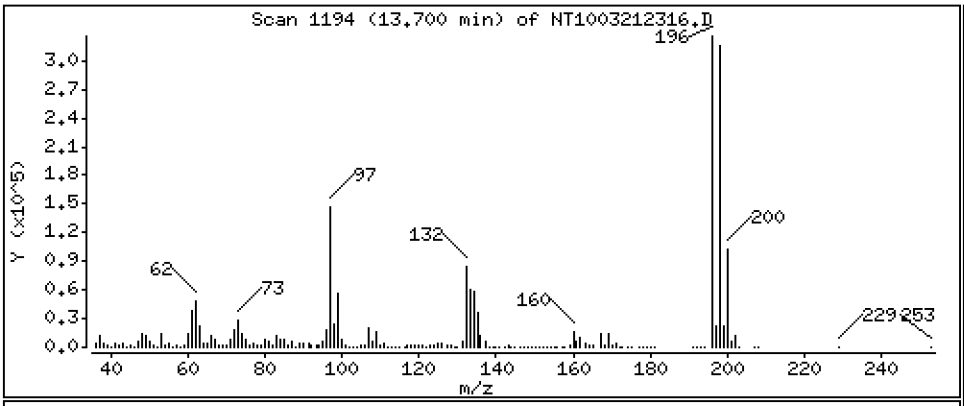
Operator: VTS

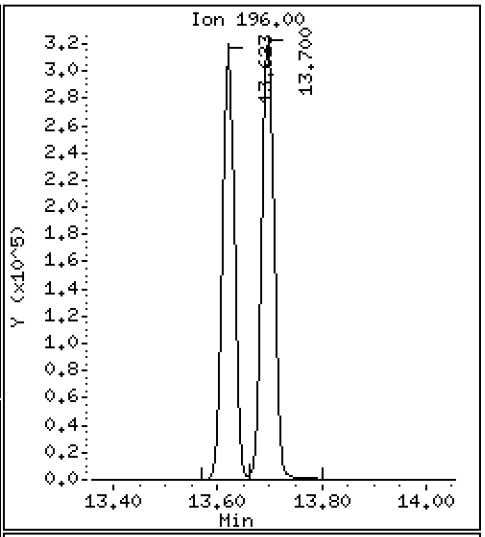
Column phase: ZB-5msi

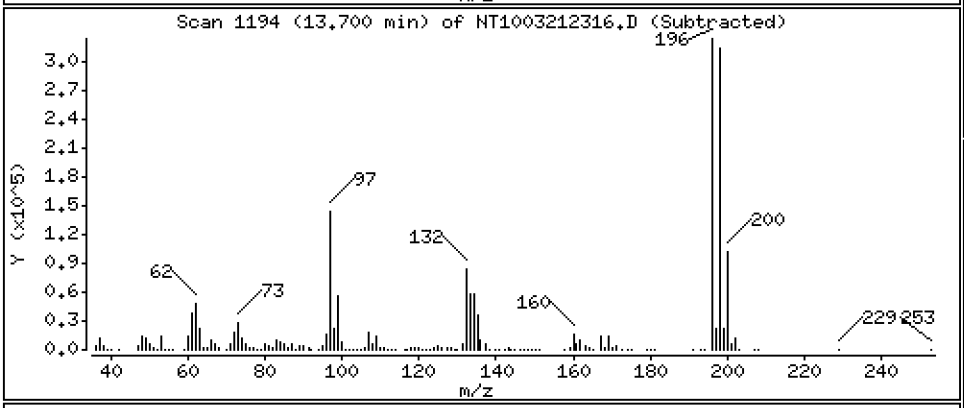
Column diameter: 0.25

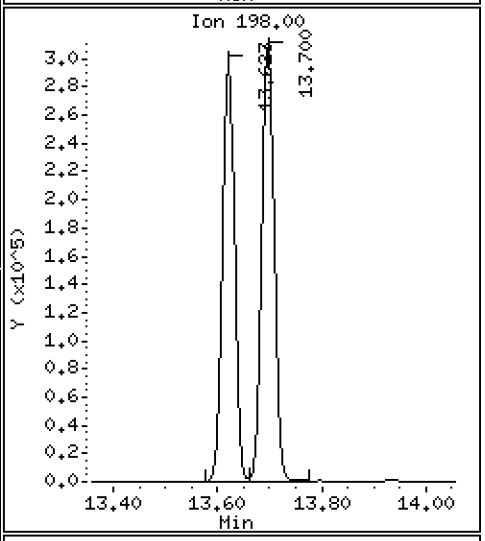
35 2,4,5-Trichlorophenol

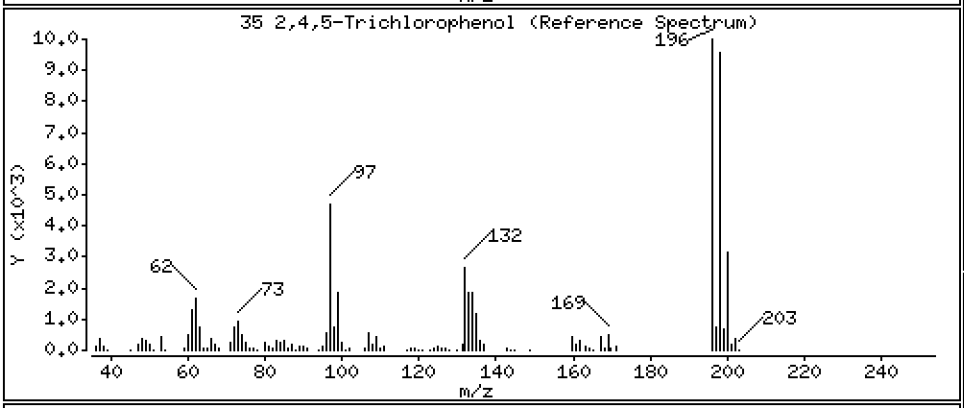
Concentration: 12.57 ug/mL

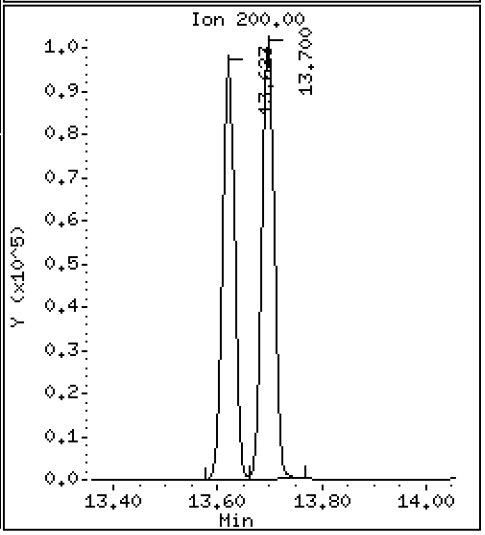


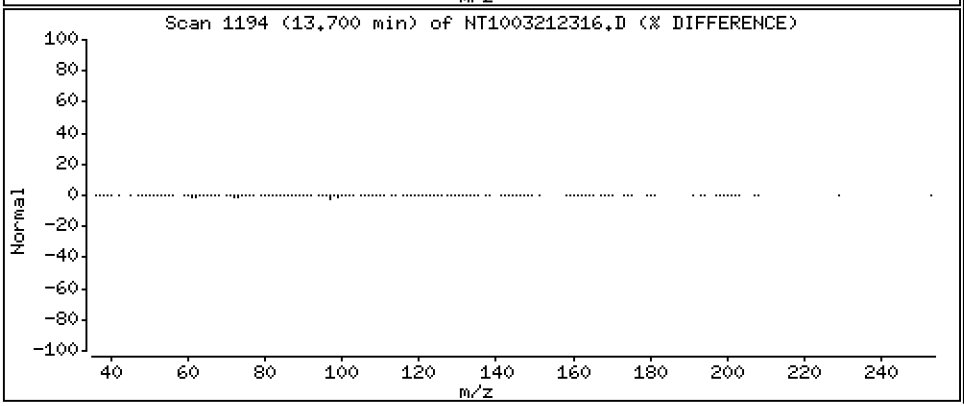












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212316.D

Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD1

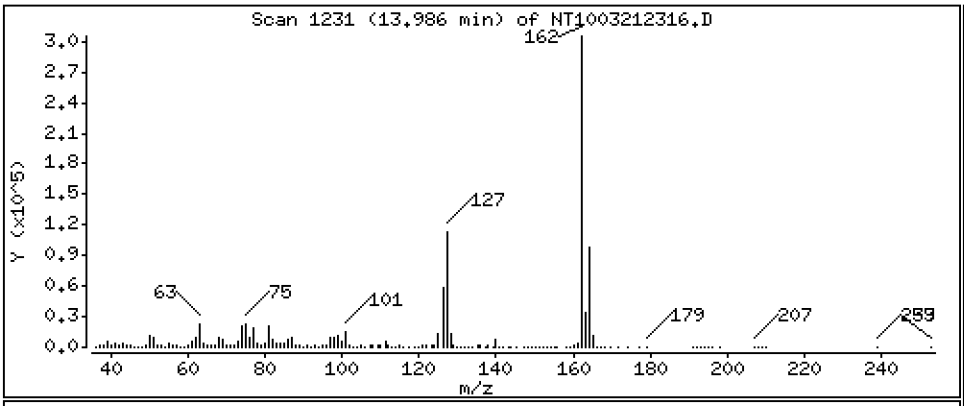
Operator: VTS

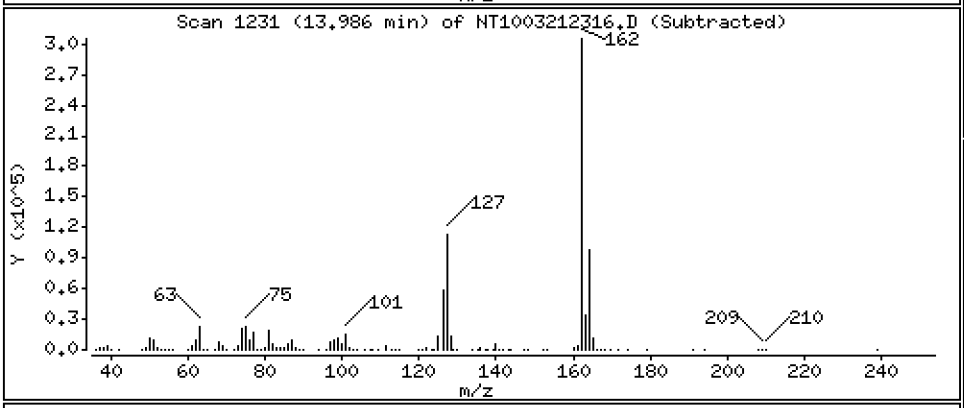
Column phase: ZB-5msi

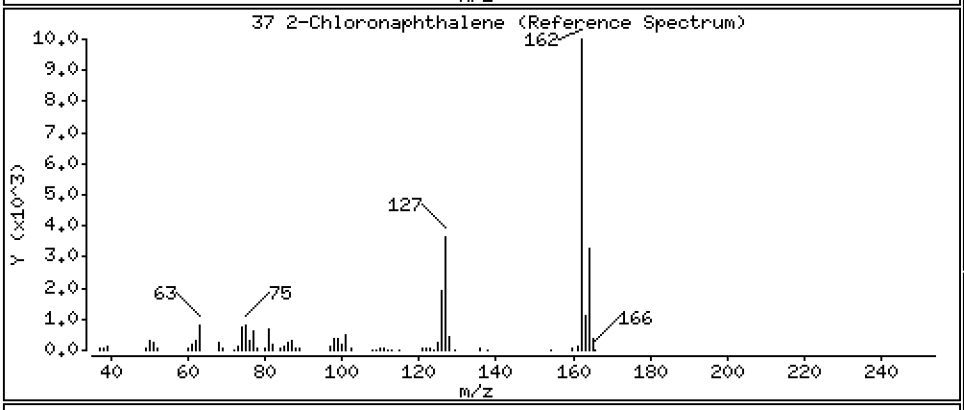
Column diameter: 0.25

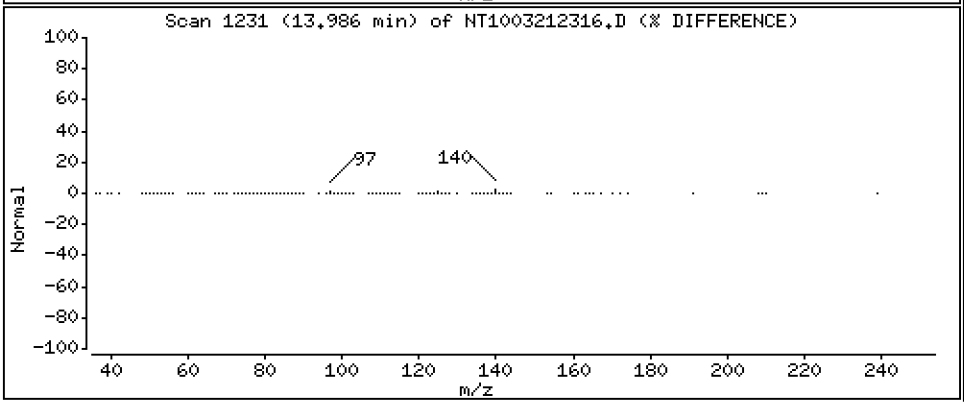
37 2-Chloronaphthalene

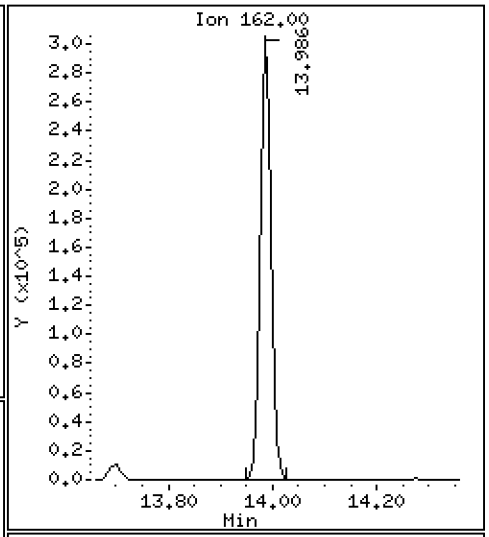
Concentration: 3.824 ug/mL

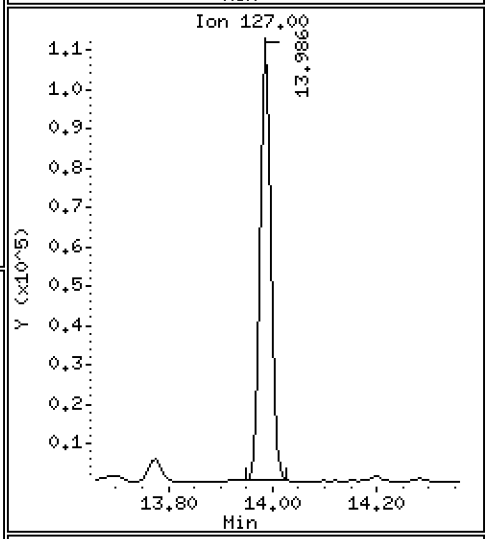


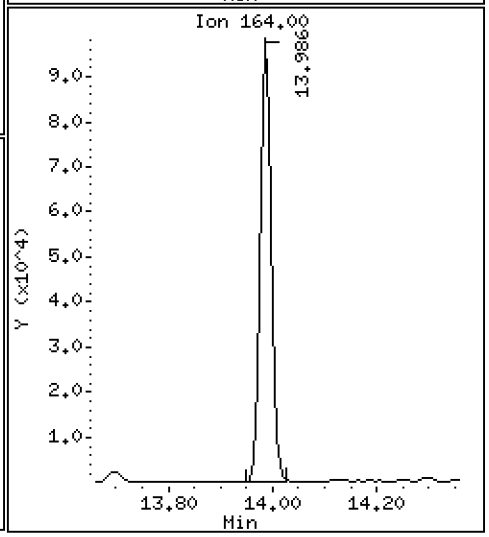












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Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD1

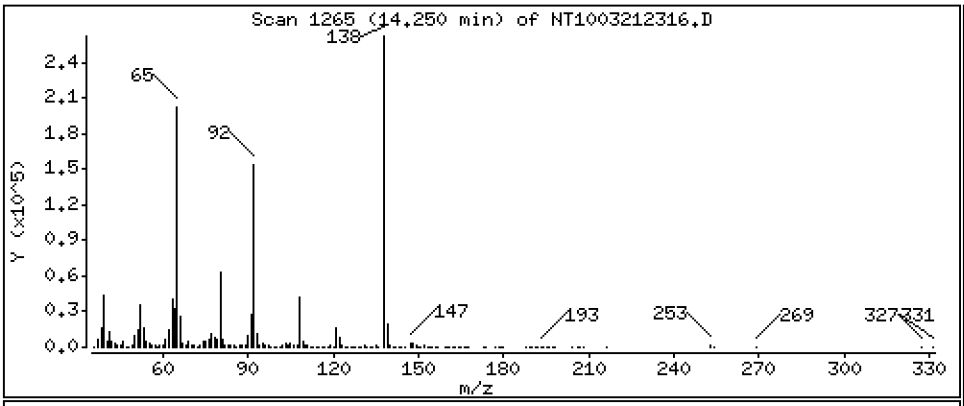
Operator: VTS

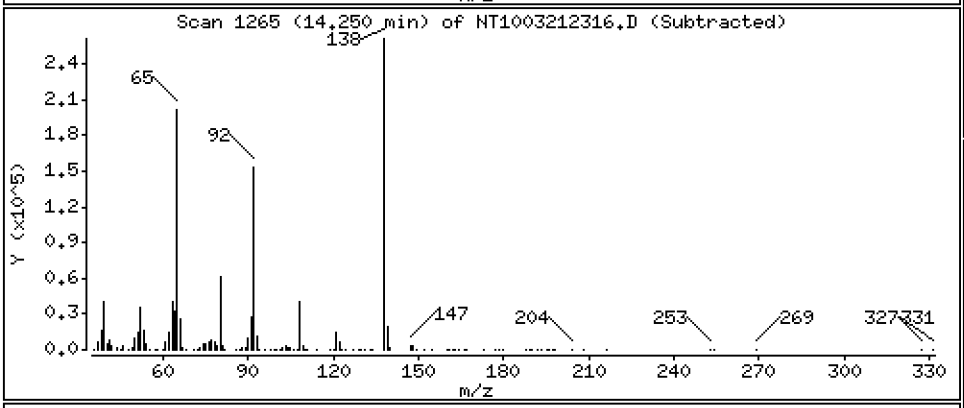
Column phase: ZB-5msi

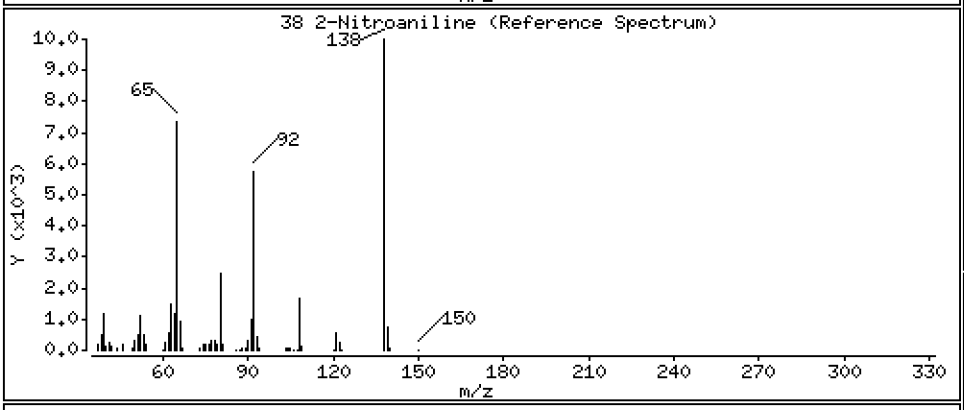
Column diameter: 0.25

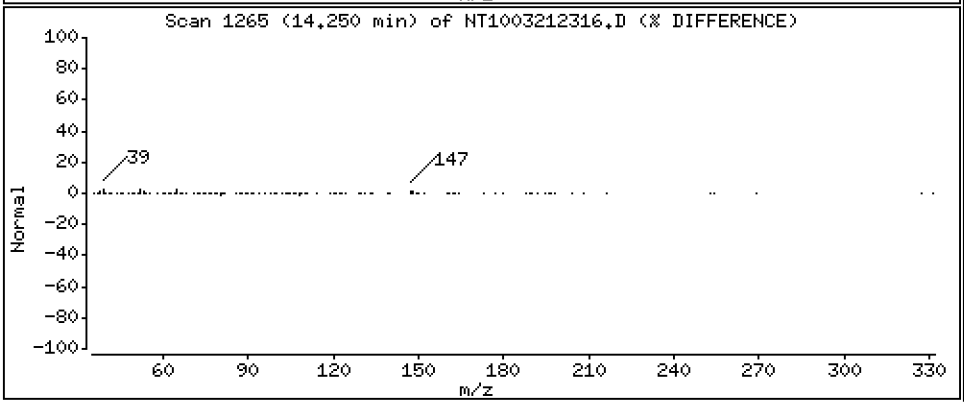
38 2-Nitroaniline

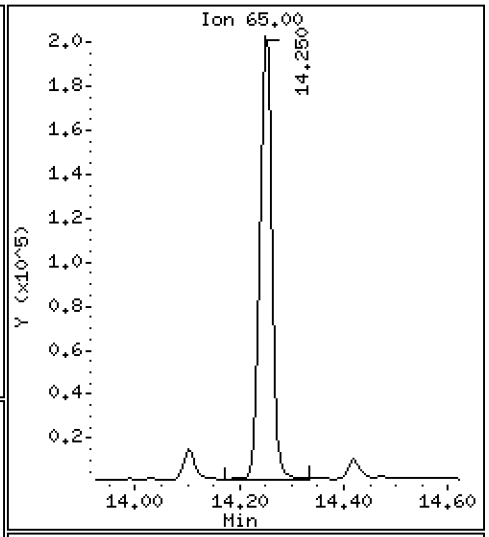
Concentration: 10.24 ug/mL

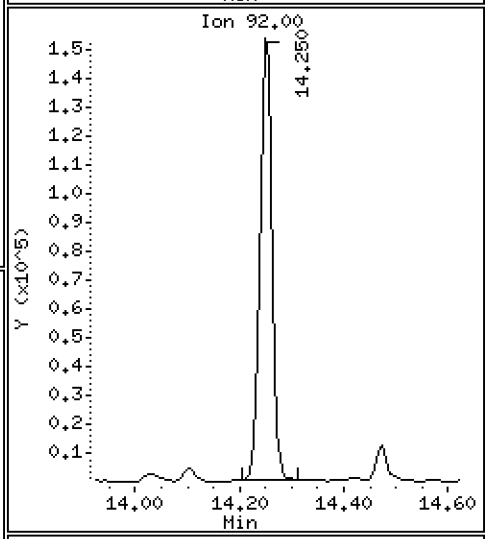


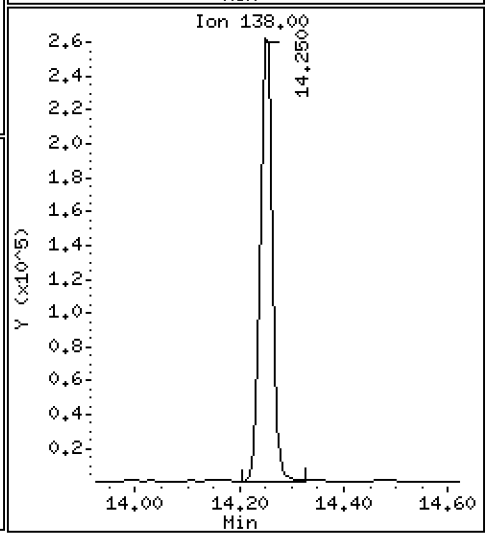












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Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD1

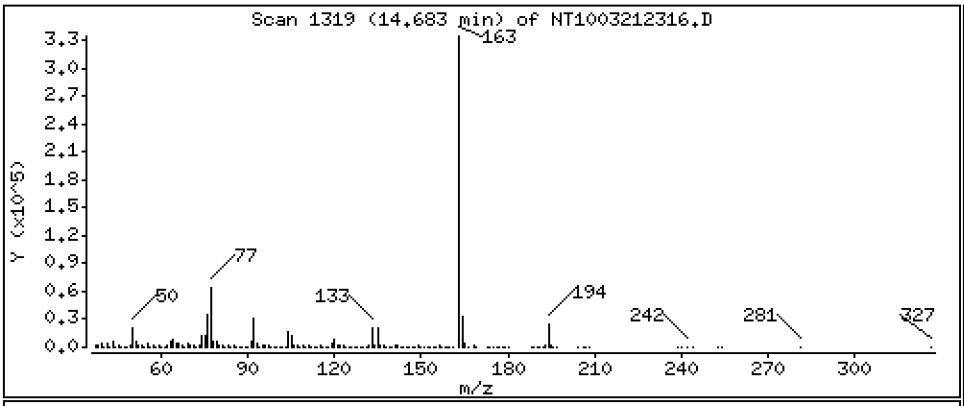
Operator: VTS

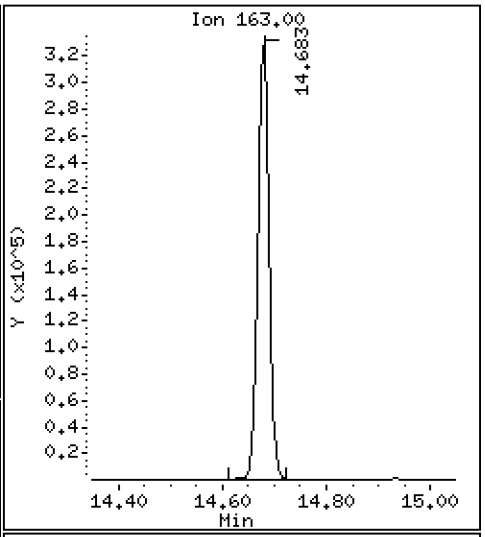
Column phase: ZB-5msi

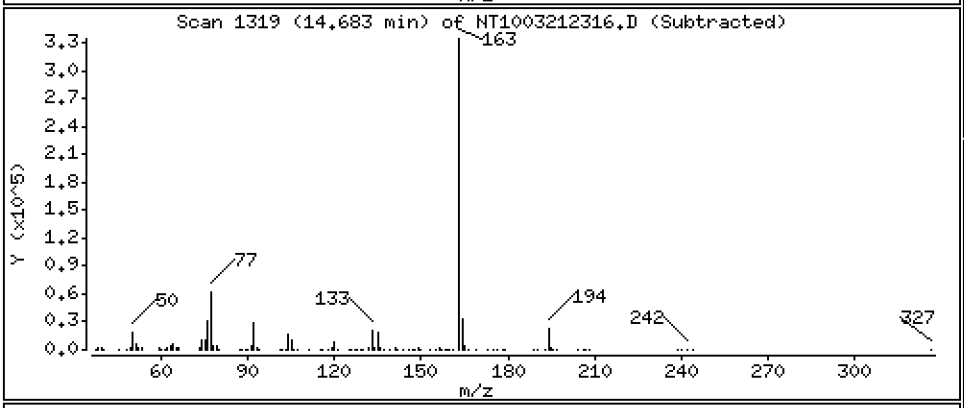
Column diameter: 0.25

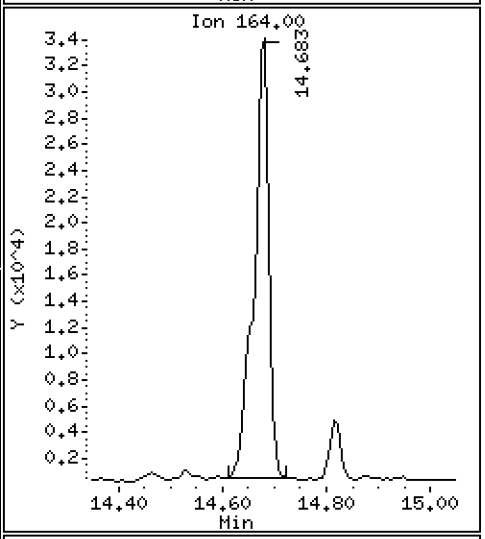
39 Dimethylphthalate

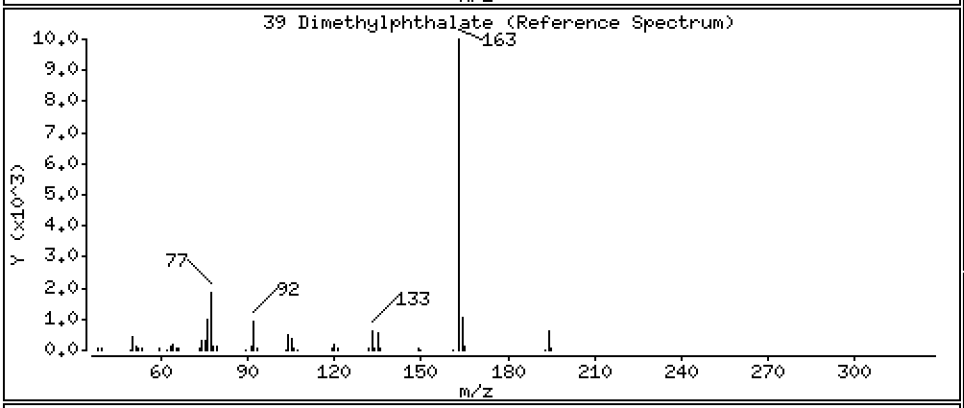
Concentration: 4.239 ug/mL

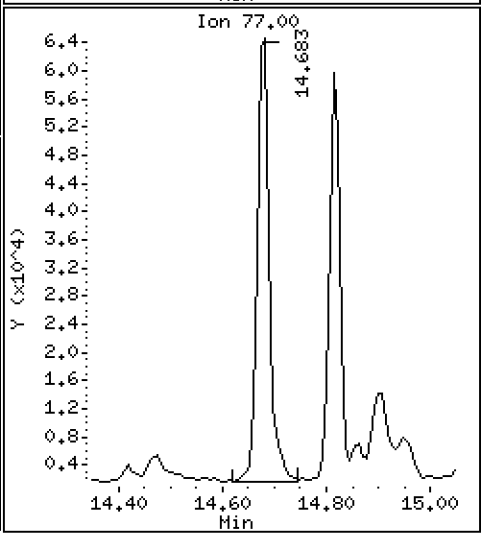


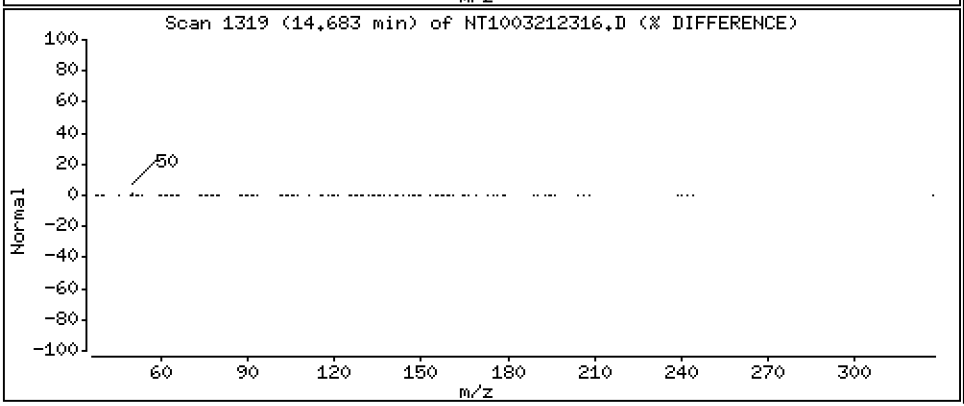












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Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD1

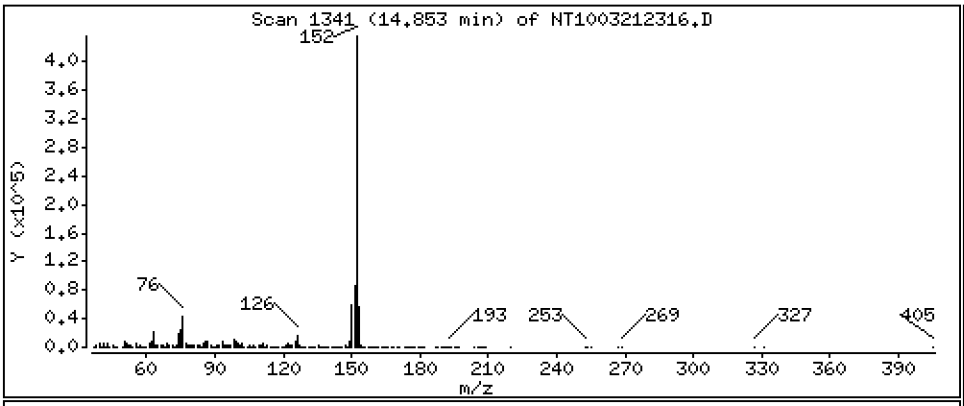
Operator: VTS

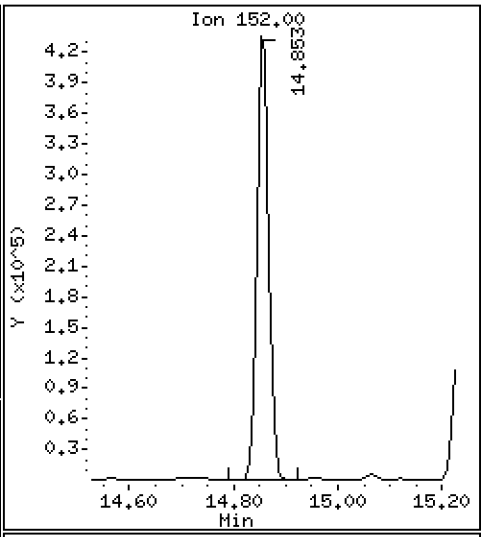
Column phase: ZB-5msi

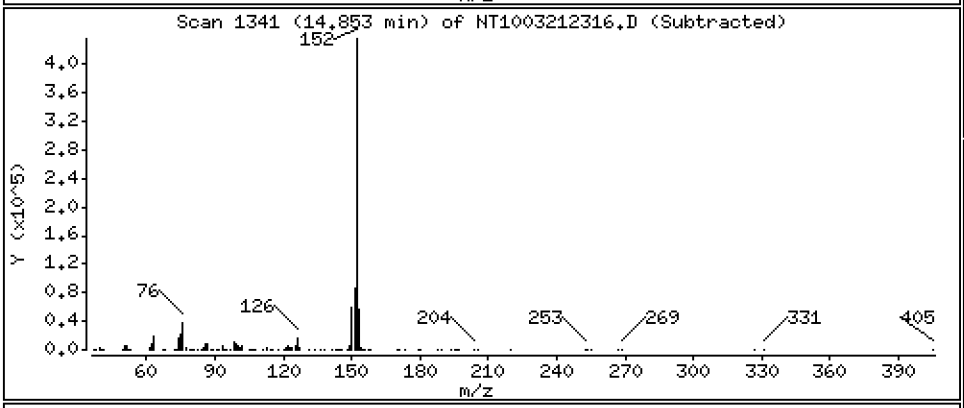
Column diameter: 0.25

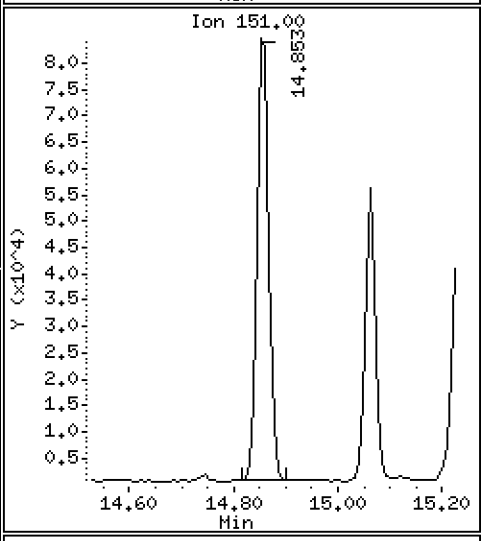
40 Acenaphthylene

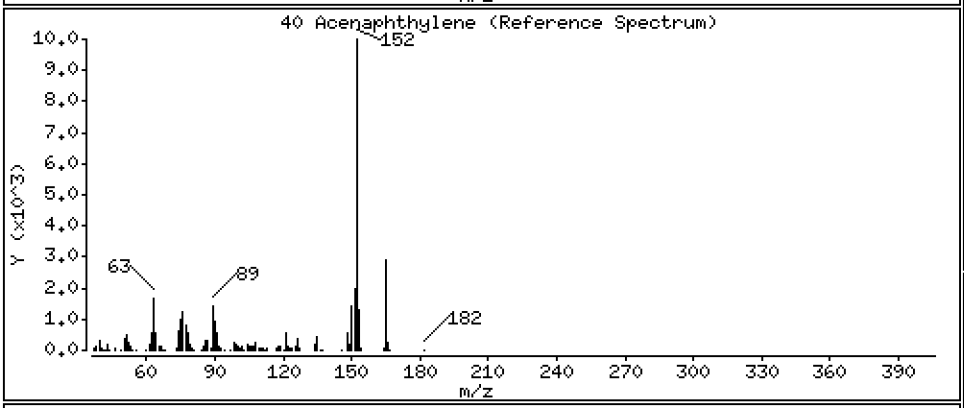
Concentration: 3.691 ug/mL

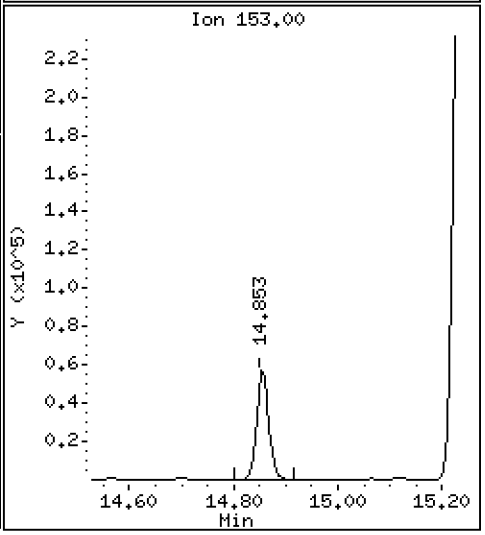


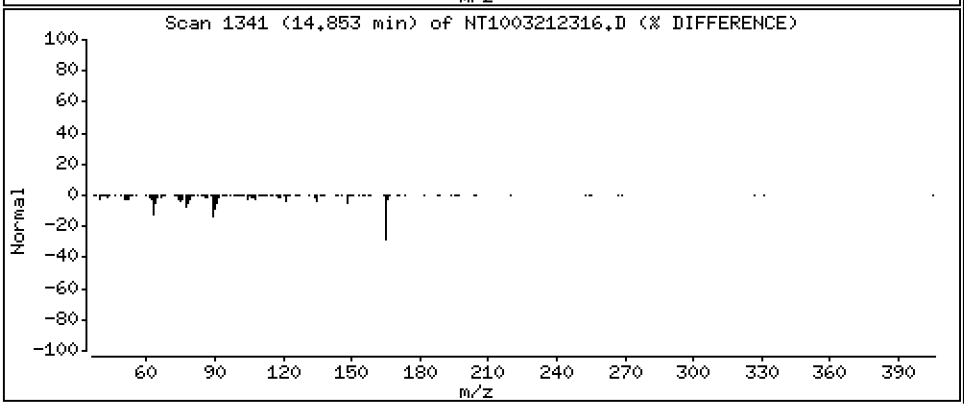












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Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD1

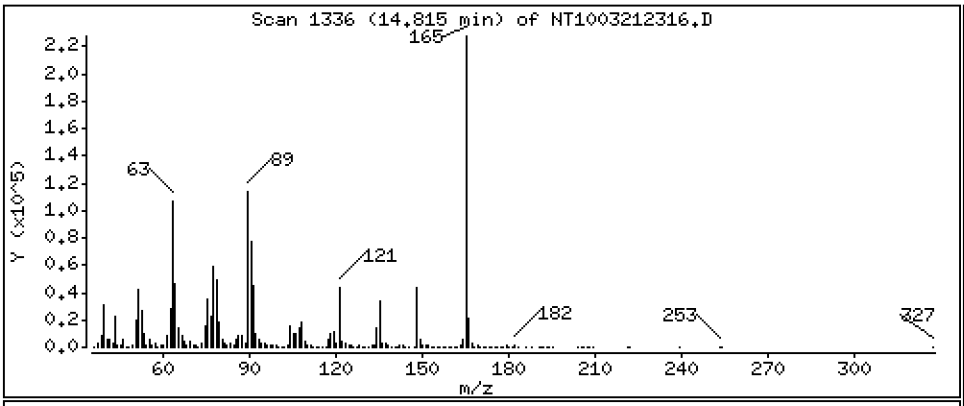
Operator: VTS

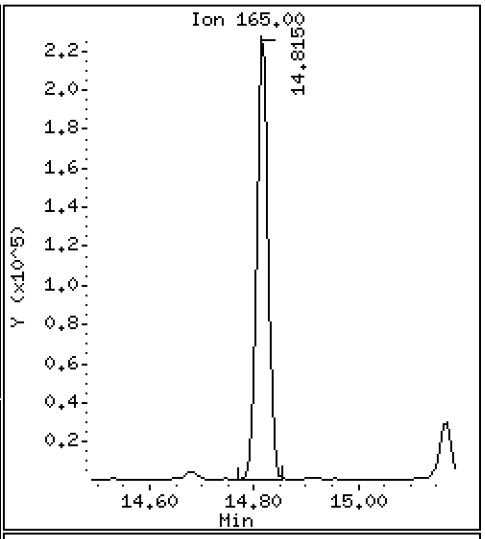
Column phase: ZB-5msi

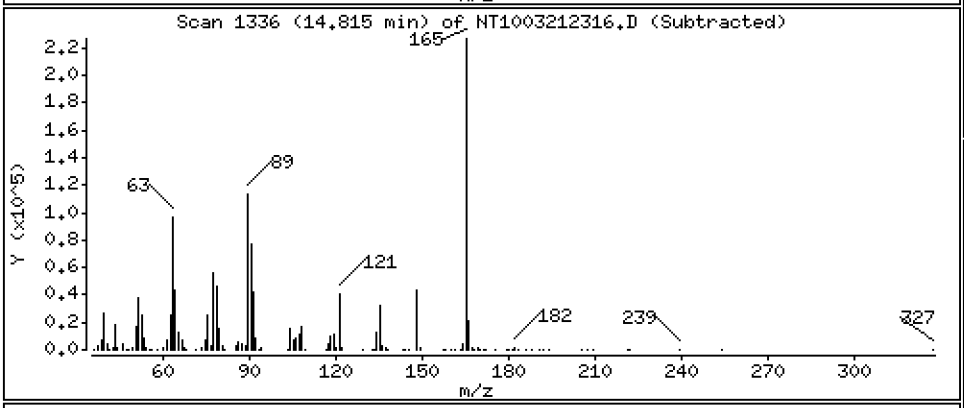
Column diameter: 0.25

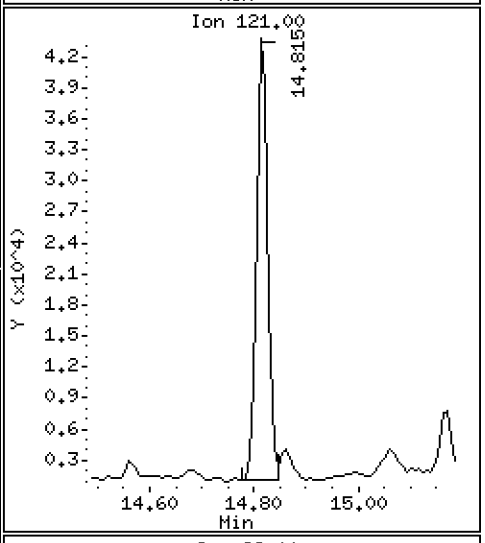
41 2,6-Dinitrotoluene

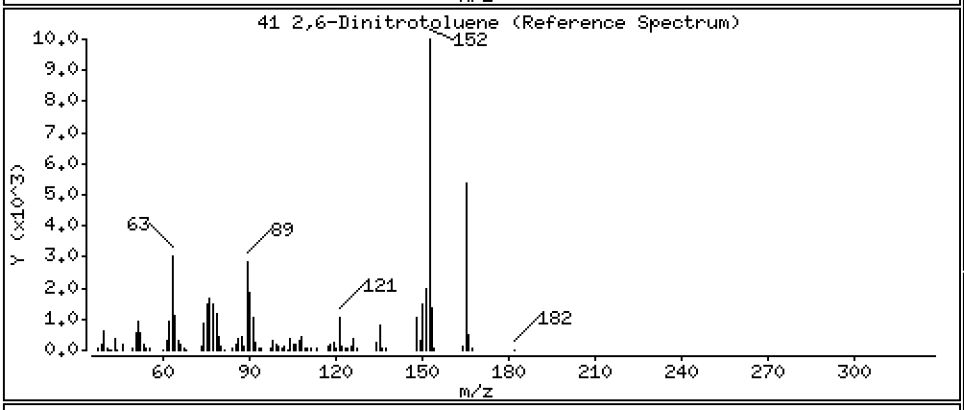
Concentration: 13.25 ug/mL

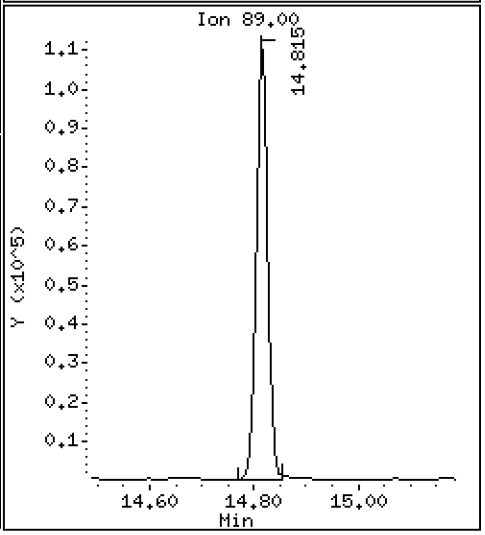


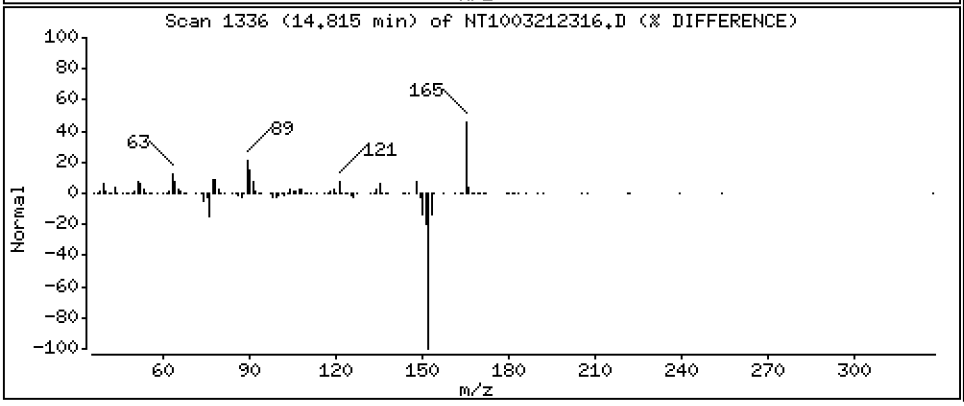












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Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD1

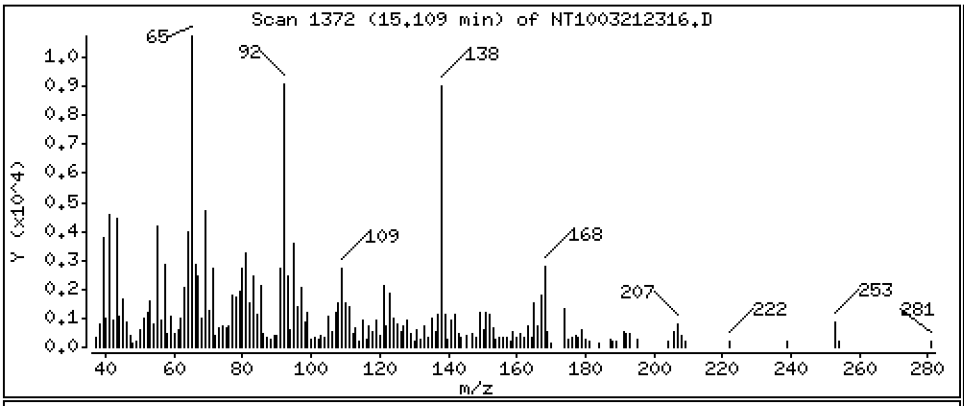
Operator: VTS

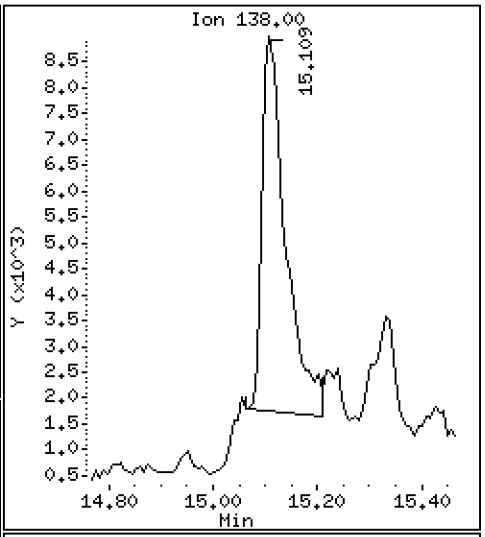
Column phase: ZB-5msi

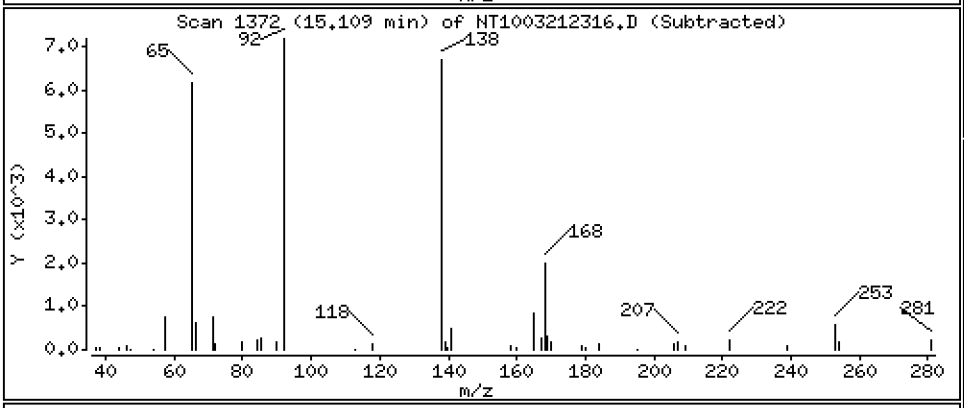
Column diameter: 0.25

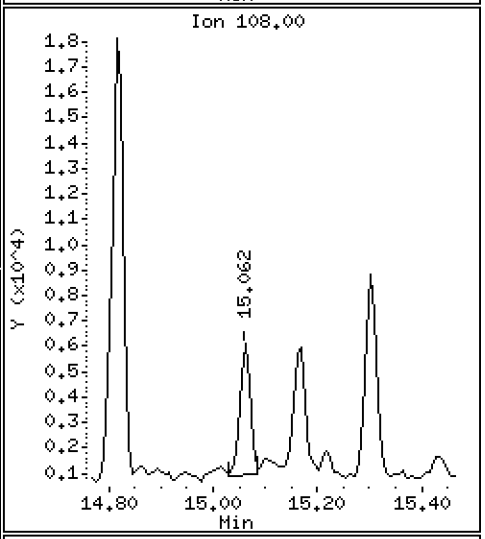
43 3-Nitroaniline

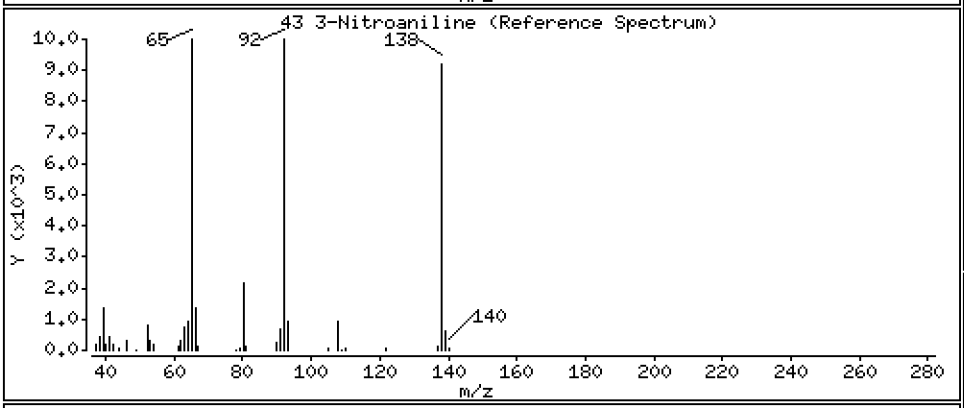
Concentration: 0.7628 ug/mL

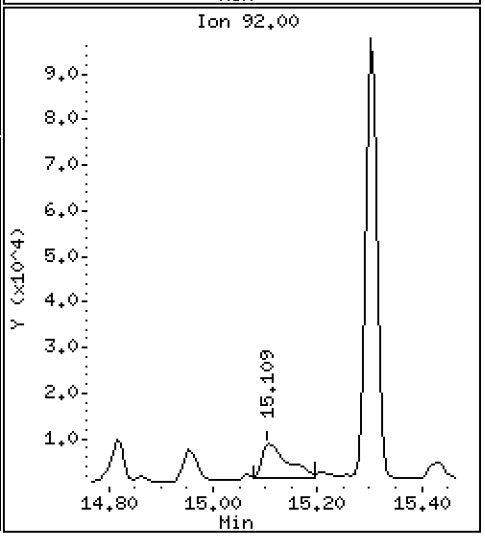


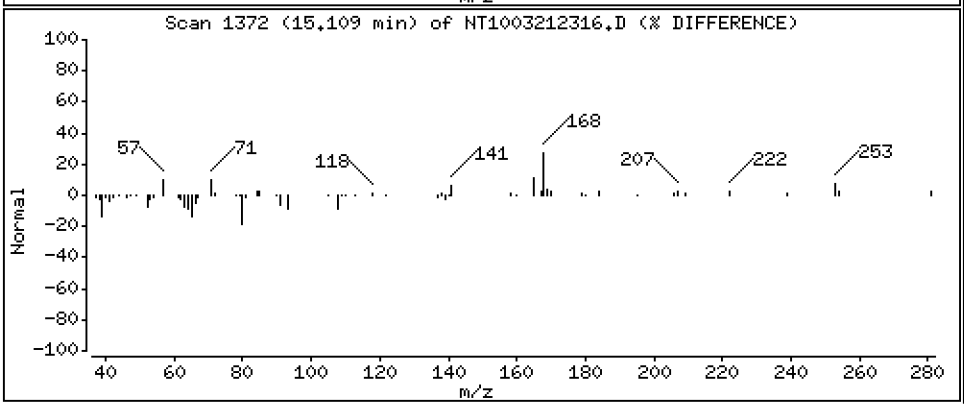












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Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD1

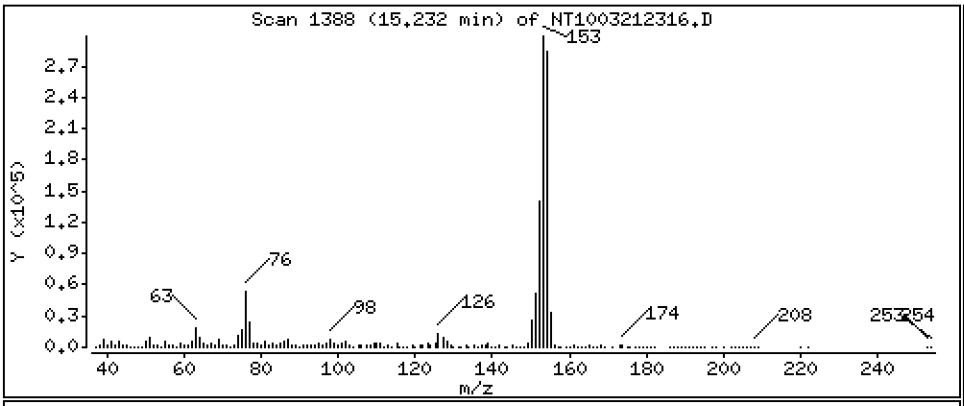
Operator: VTS

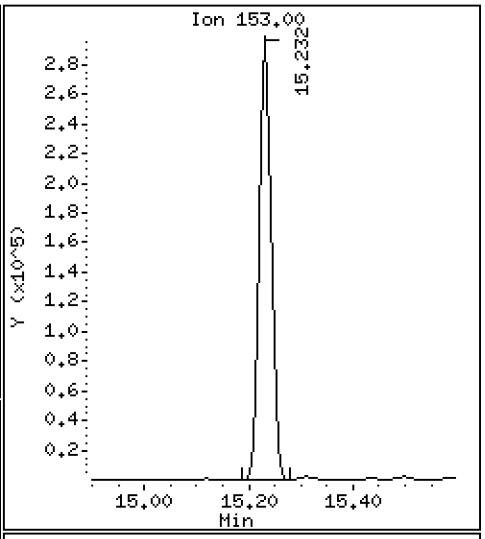
Column phase: ZB-5msi

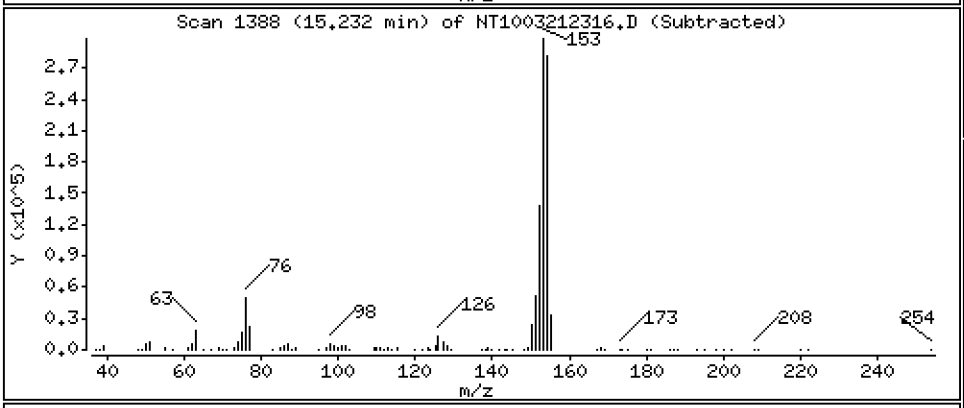
Column diameter: 0.25

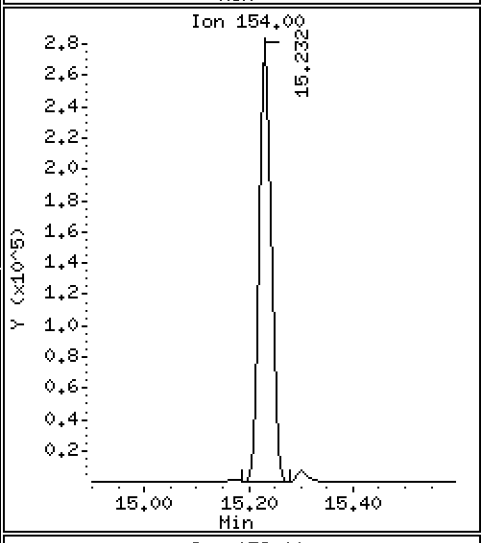
44 Acenaphthene

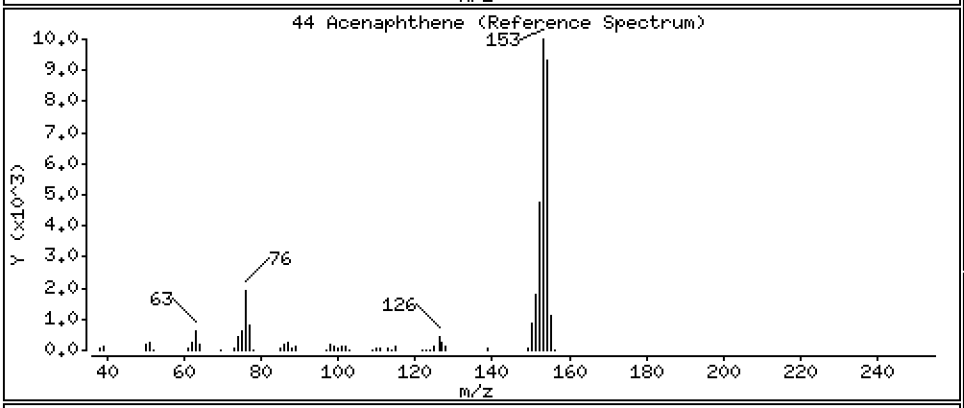
Concentration: 4.058 ug/mL

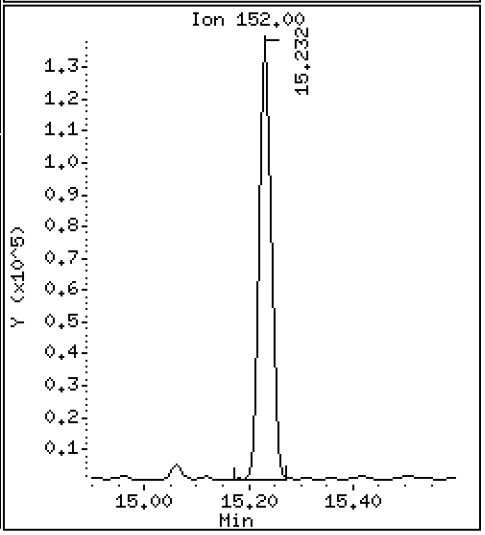


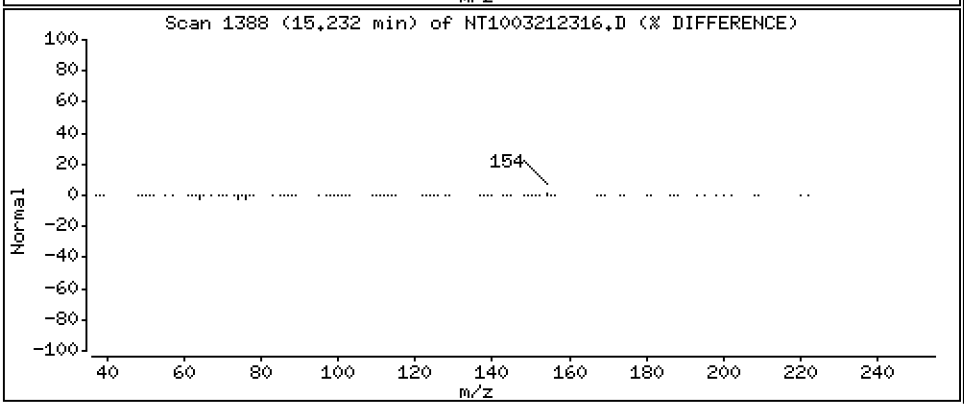












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212316.D

Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD1

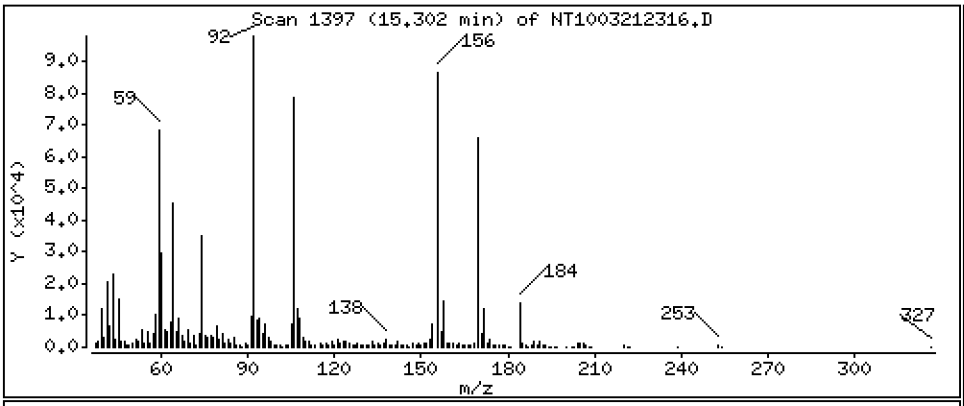
Operator: VTS

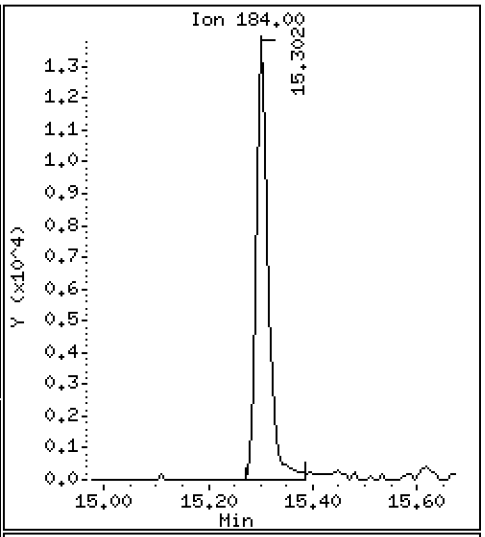
Column phase: ZB-5msi

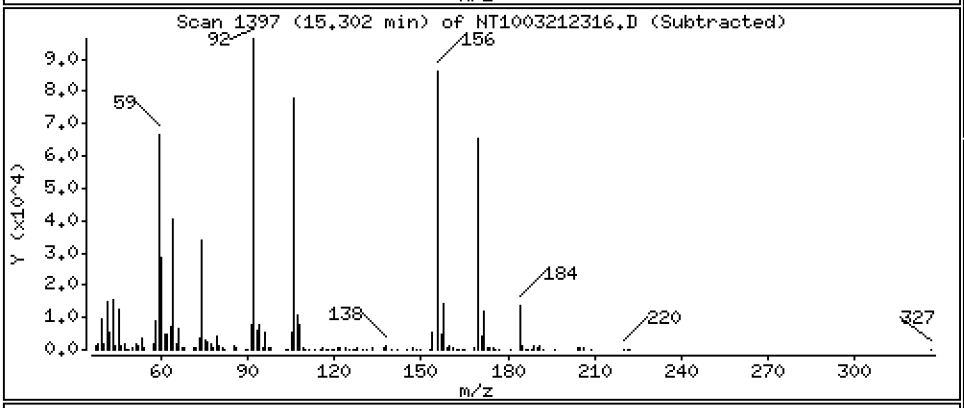
Column diameter: 0.25

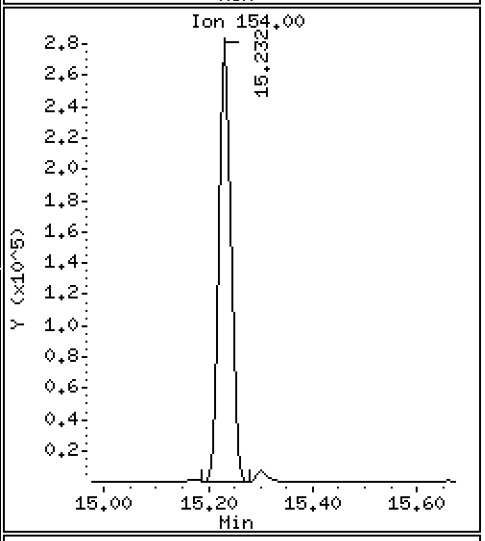
45 2,4-Dinitrophenol

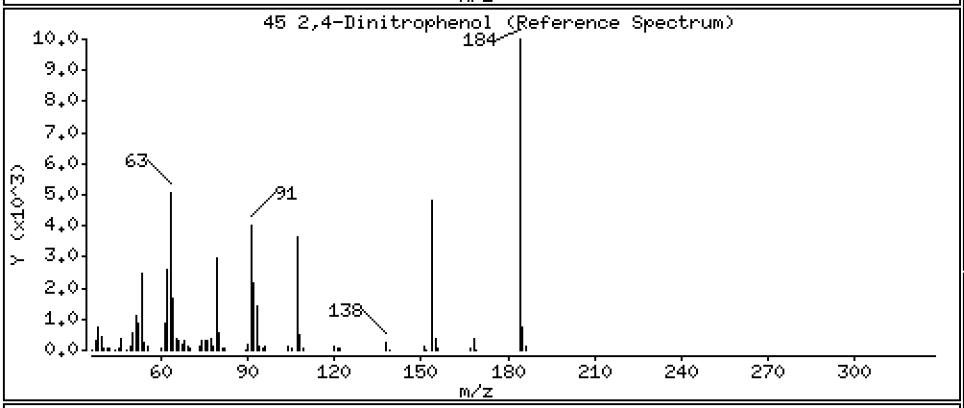
Concentration: 1.418 ug/mL

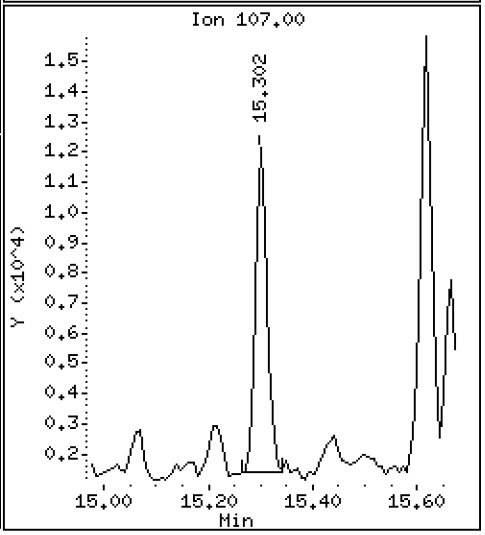


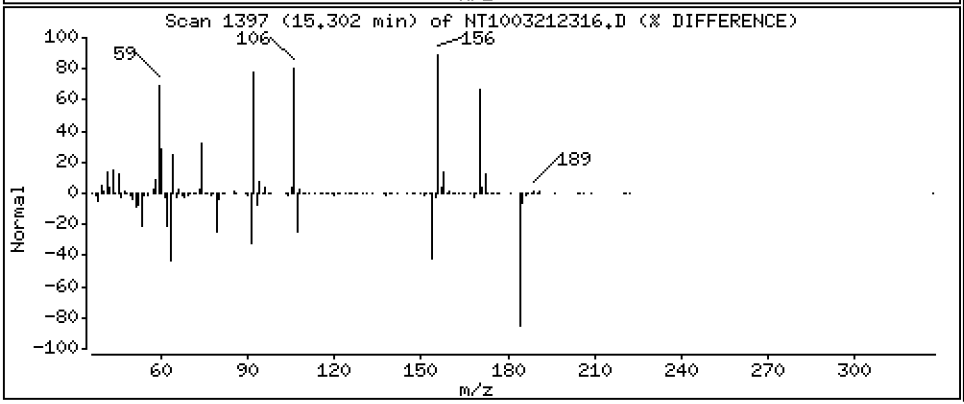












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Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD1

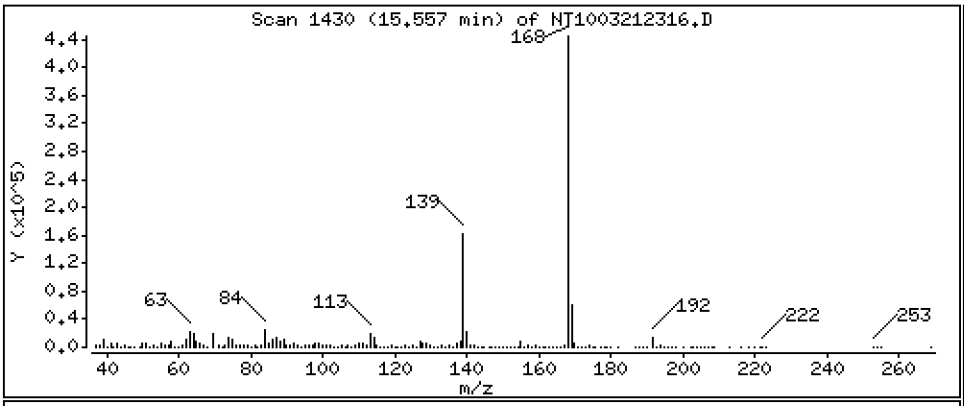
Operator: VTS

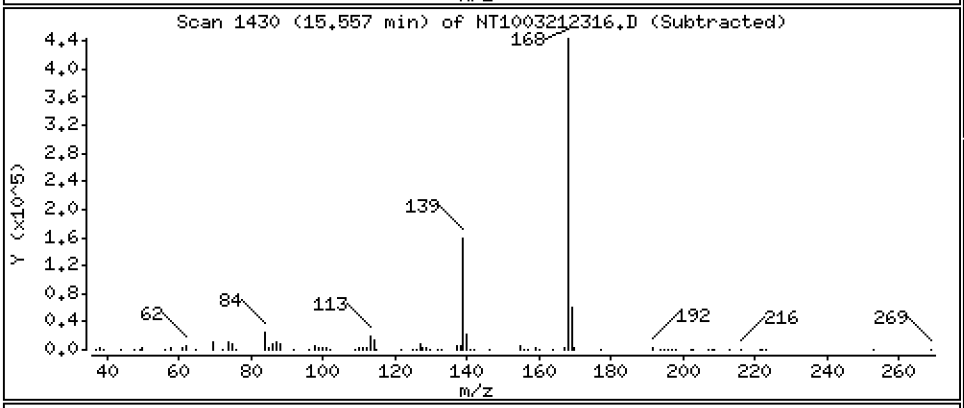
Column phase: ZB-5msi

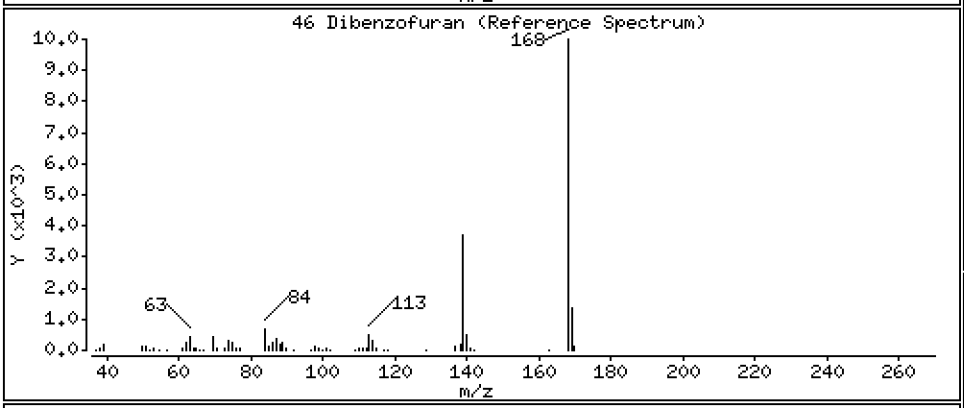
Column diameter: 0.25

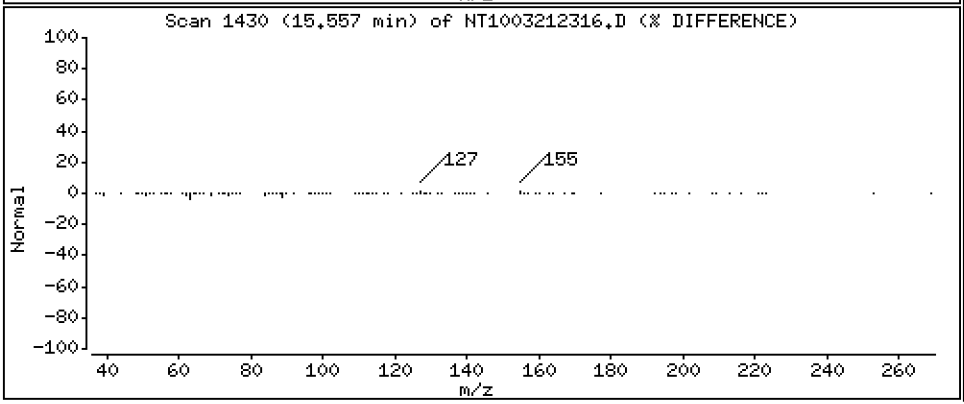
46 Dibenzofuran

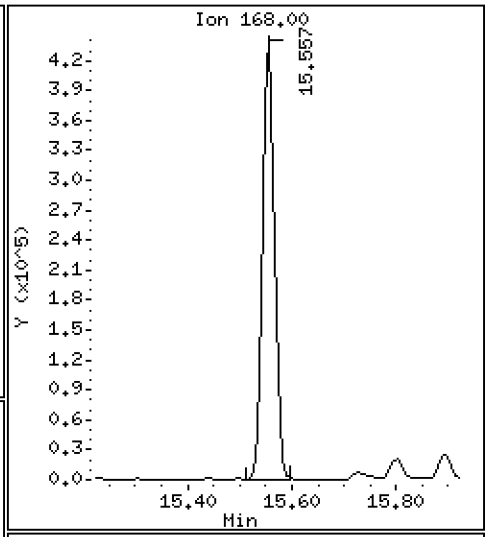
Concentration: 4.060 ug/mL

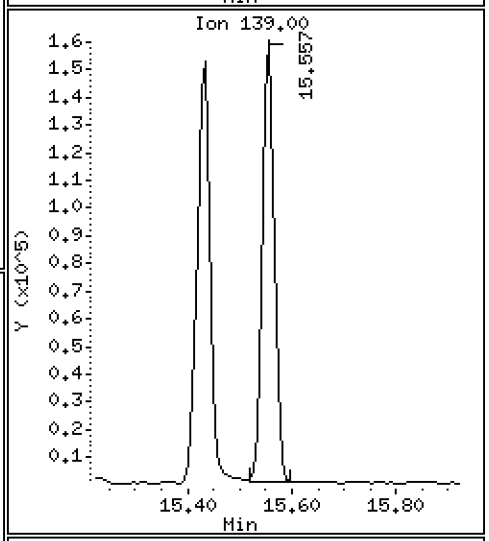


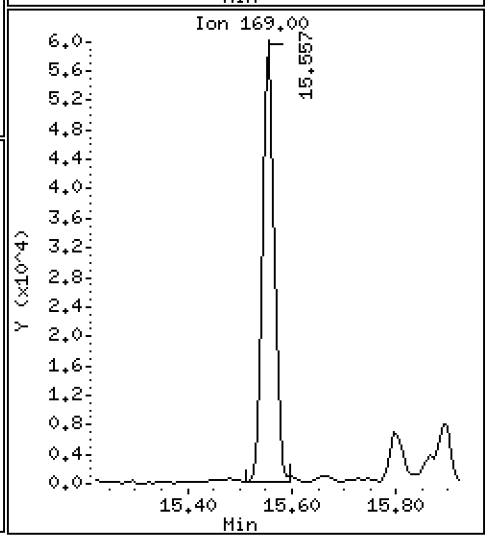












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Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD1

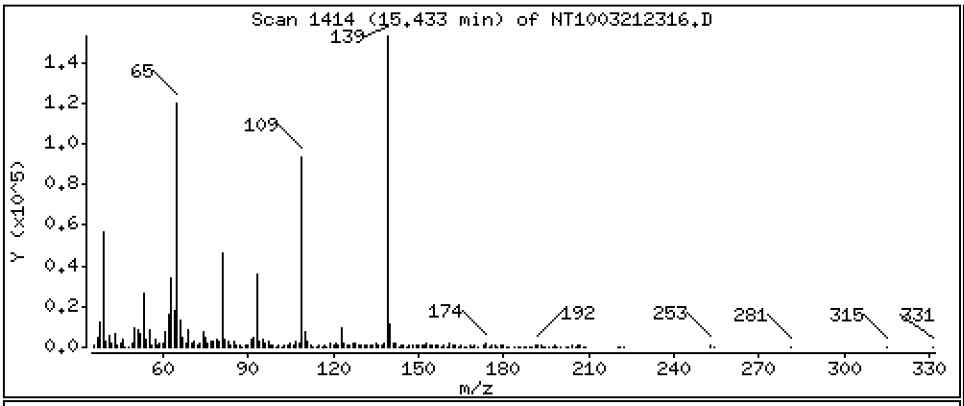
Operator: VTS

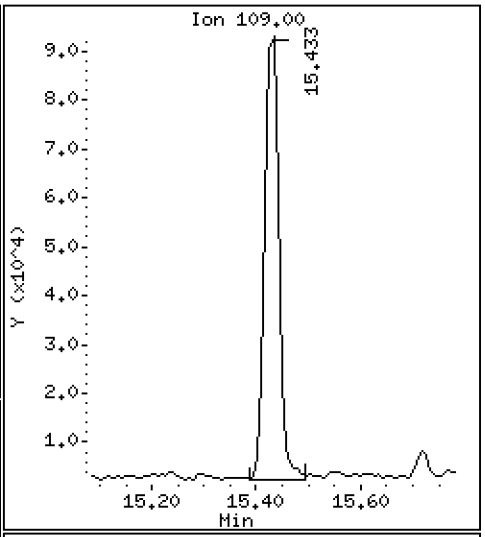
Column phase: ZB-5msi

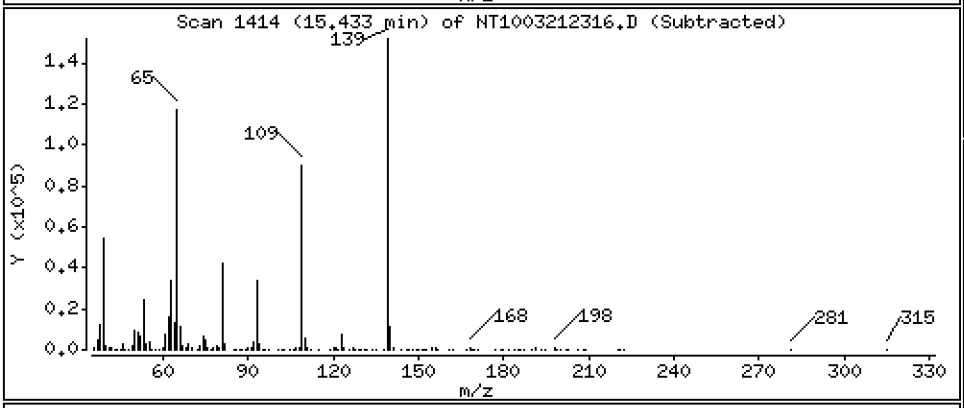
Column diameter: 0.25

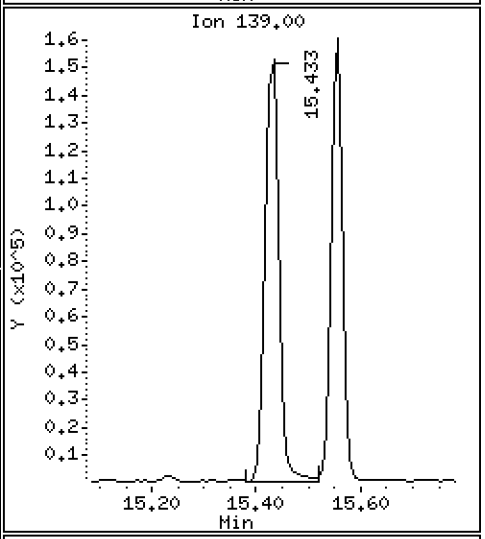
47 4-Nitrophenol

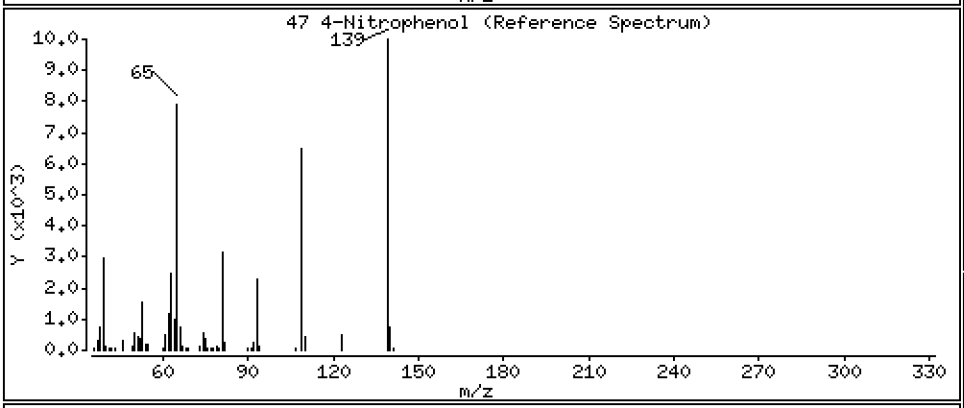
Concentration: 8.913 ug/mL

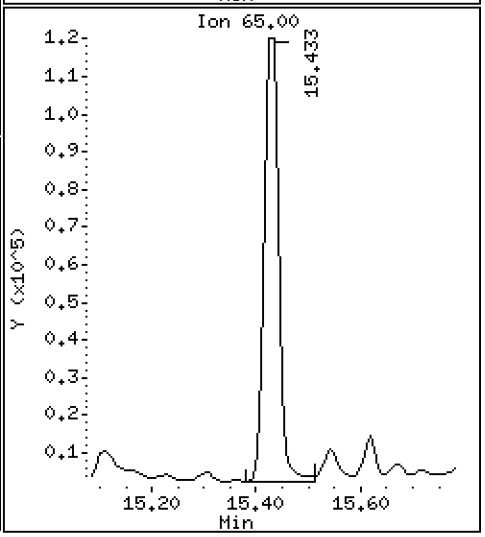


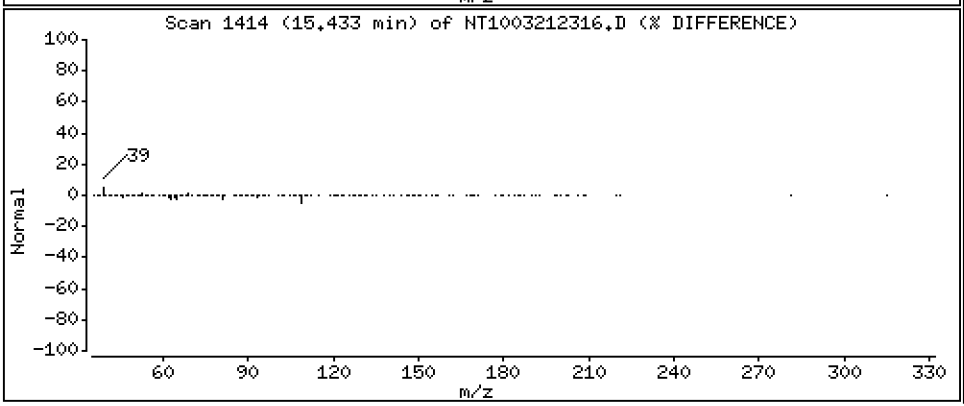












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Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD1

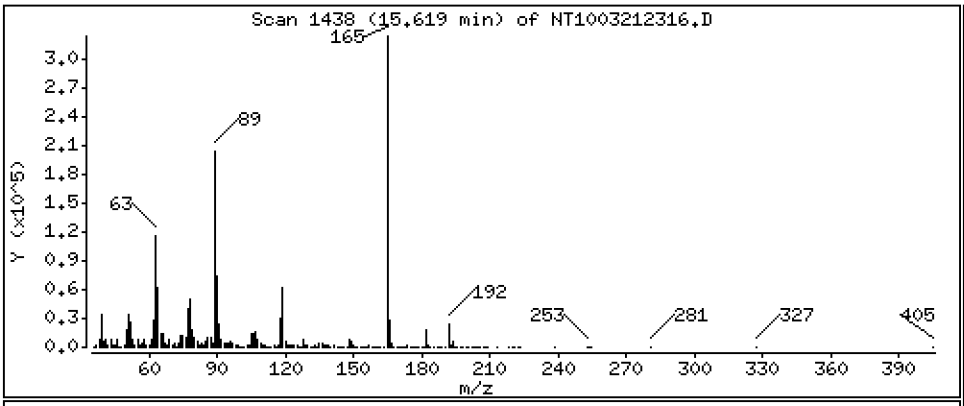
Operator: VTS

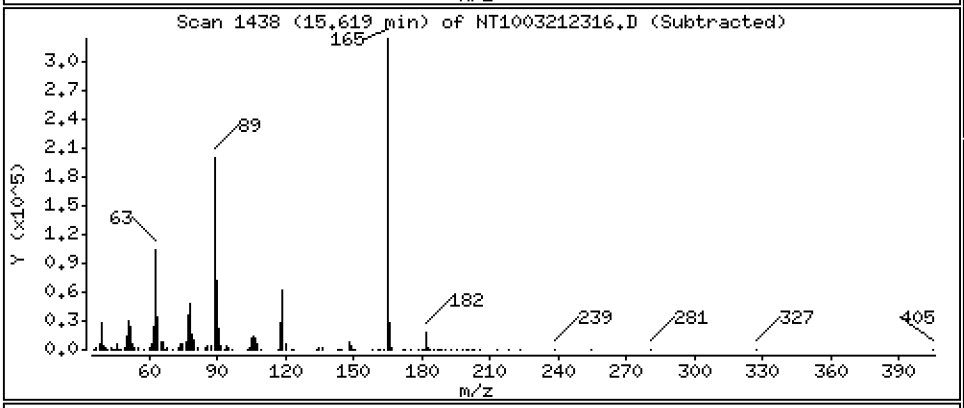
Column phase: ZB-5msi

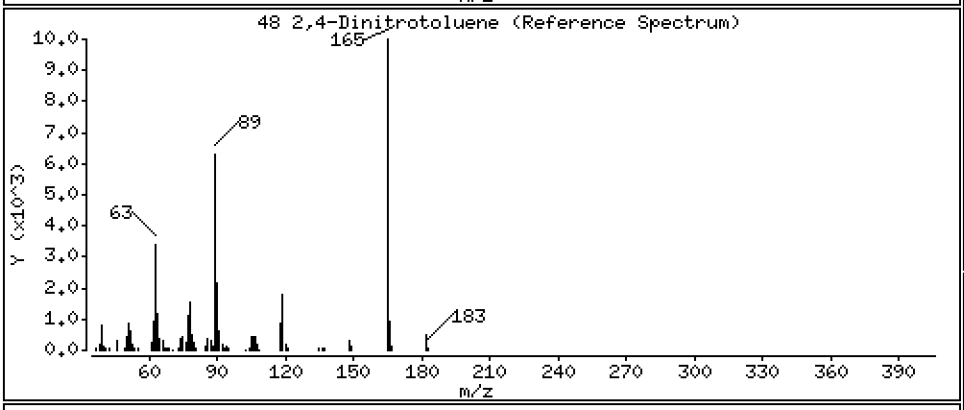
Column diameter: 0.25

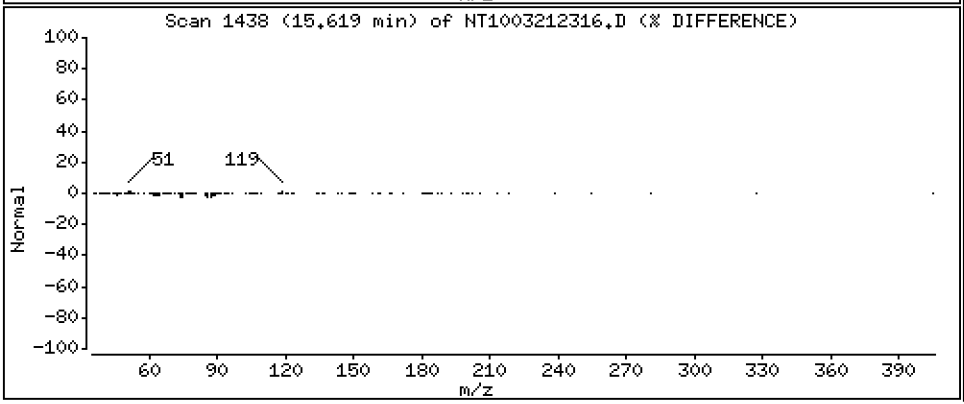
48 2,4-Dinitrotoluene

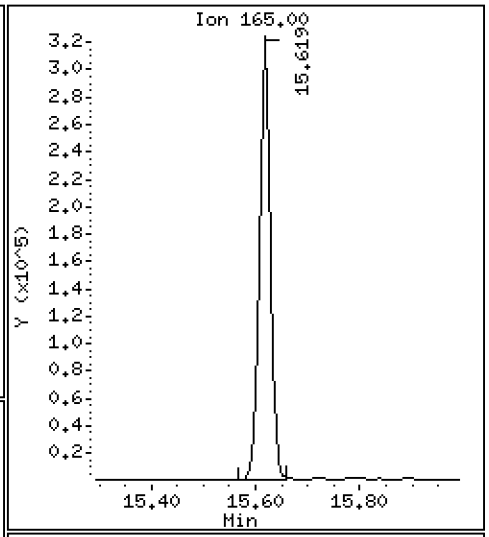
Concentration: 12.26 ug/mL

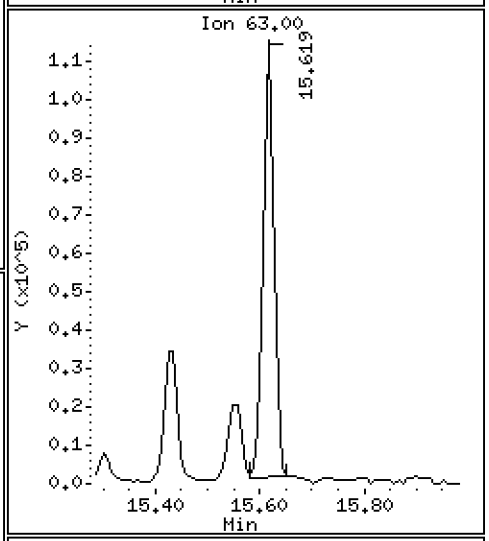


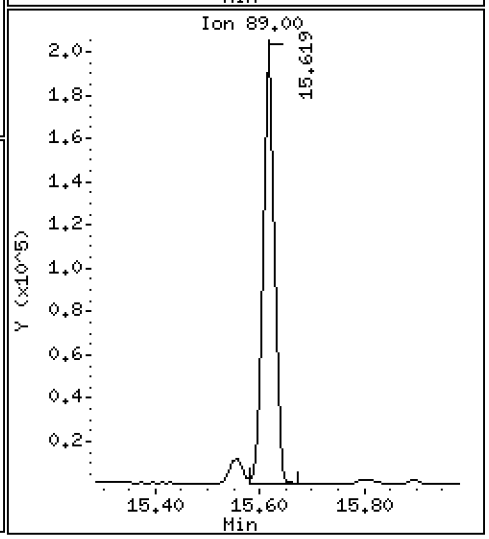












Date : 22-MAR-2023 02:46

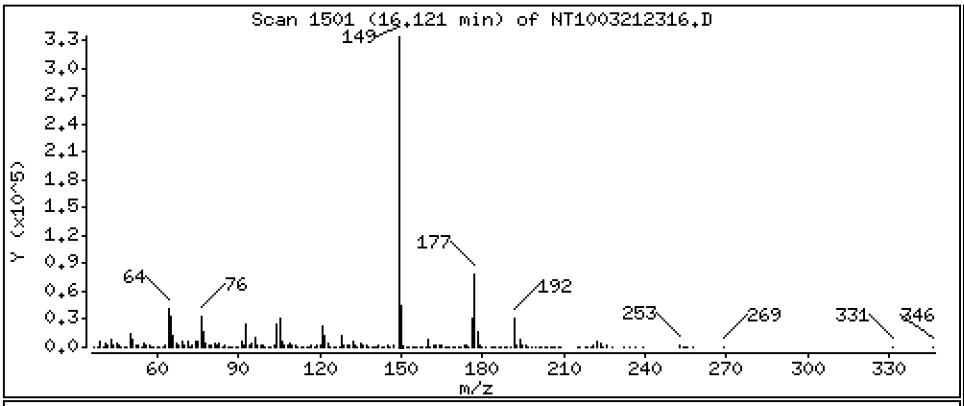
Client ID: Instrument: nt10.i

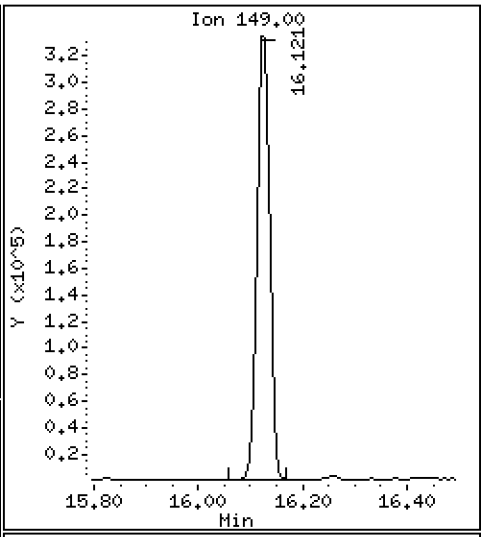
Sample Info: BLC0109-MSD1

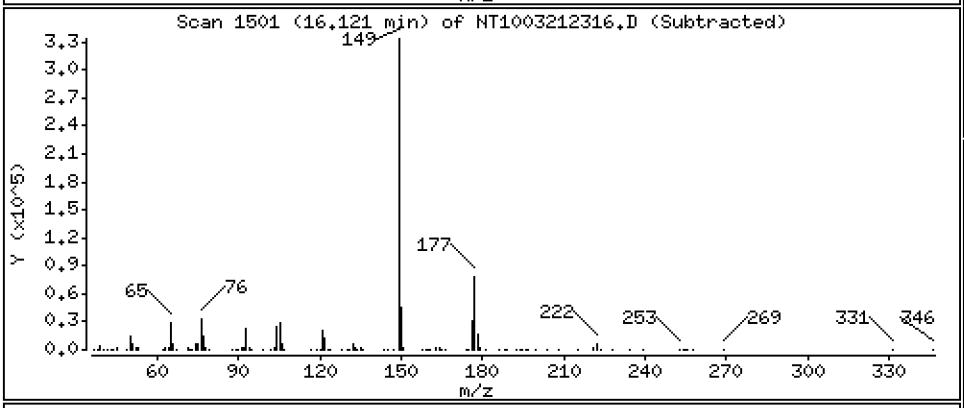
Operator: VTS

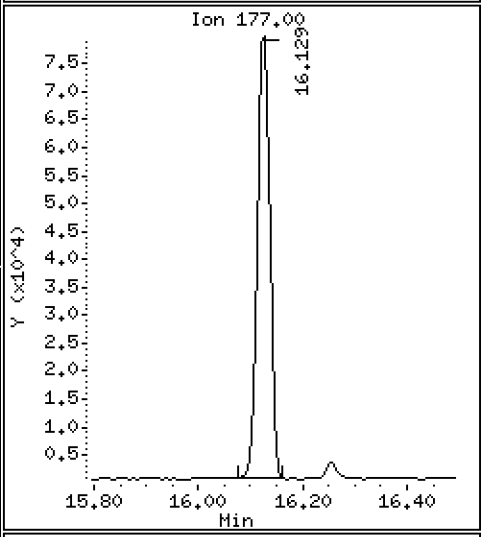
Column phase: ZB-5msi Column diameter: 0.25

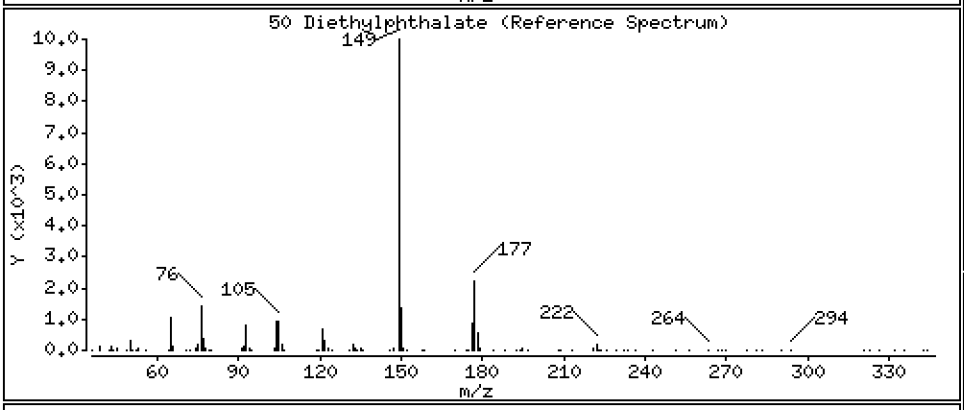
50 Diethylphthalate Concentration: 4.535 ug/mL

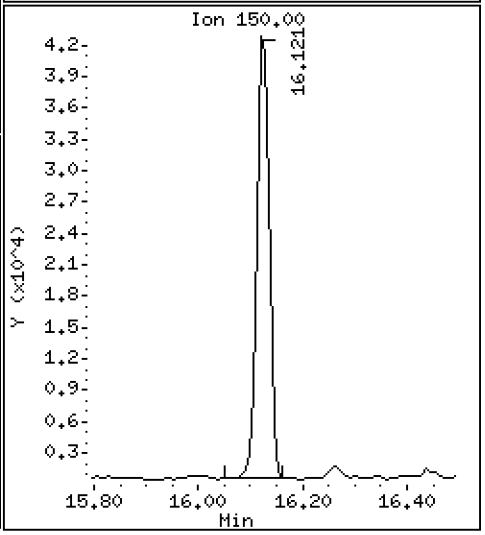


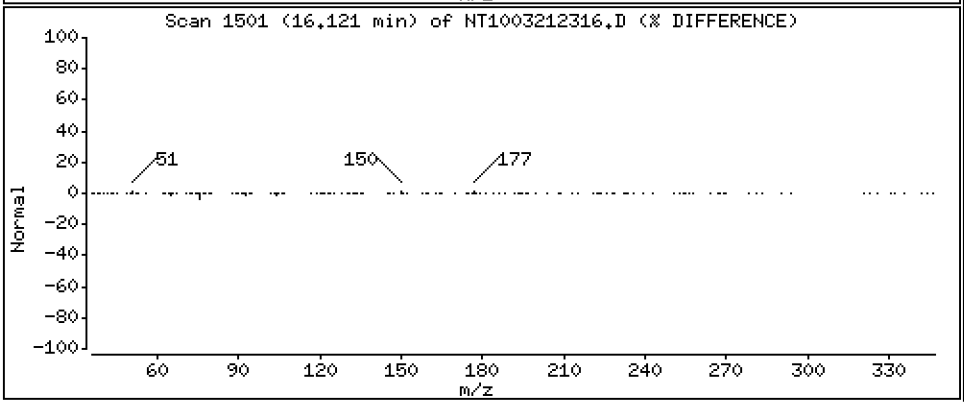












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Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD1

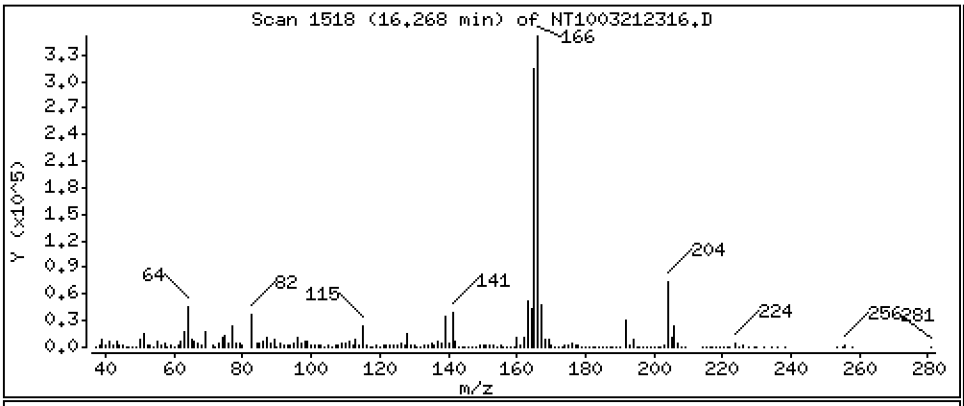
Operator: VTS

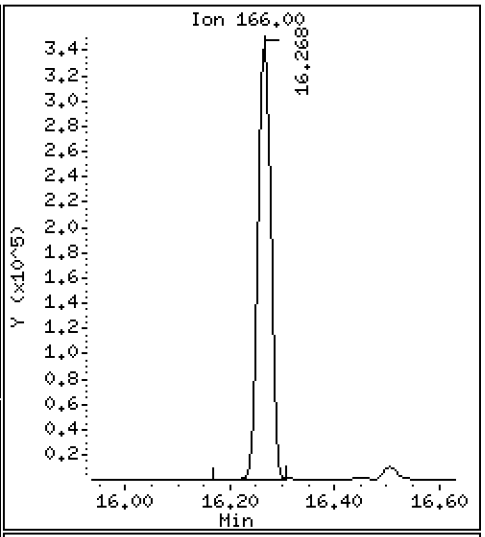
Column phase: ZB-5msi

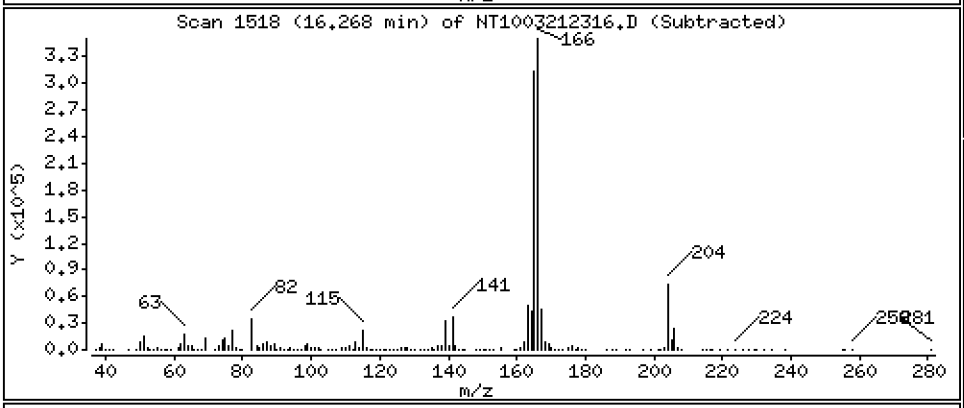
Column diameter: 0.25

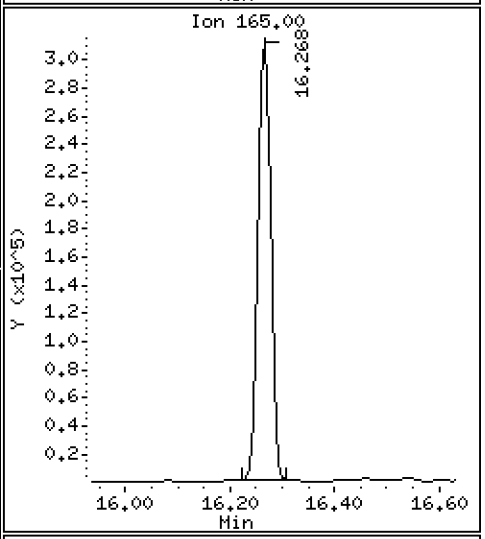
49 Fluorene

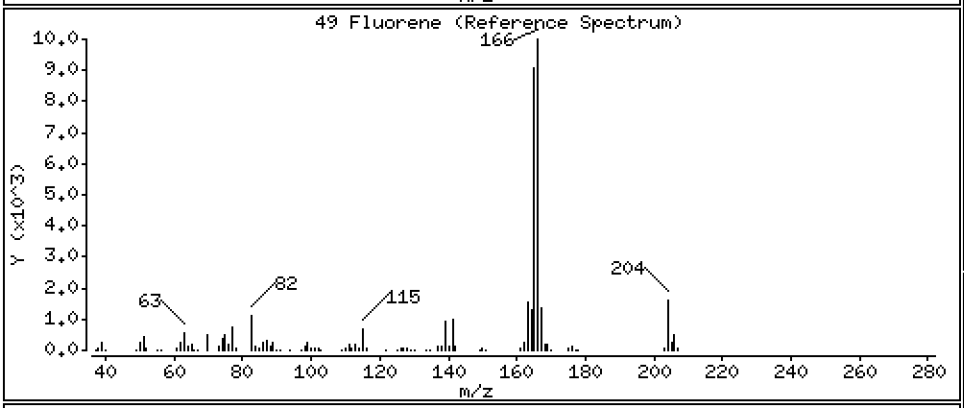
Concentration: 4.763 ug/mL

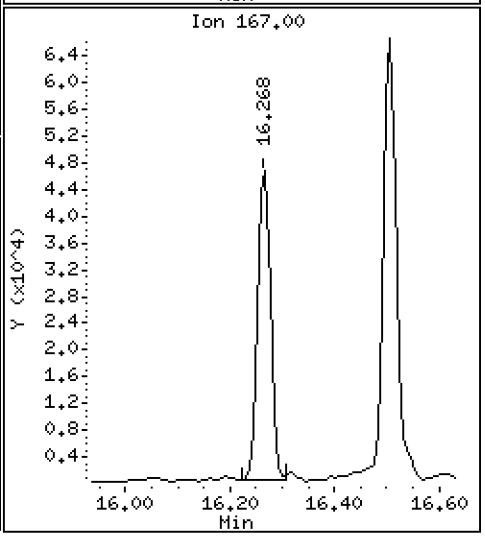


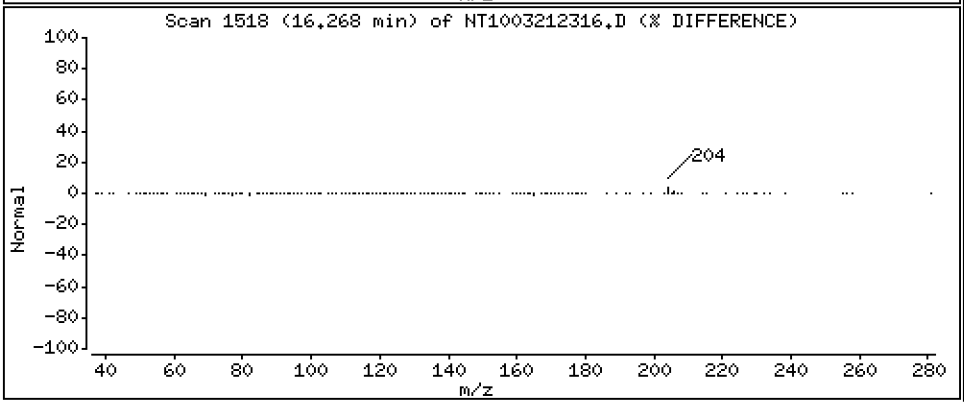












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Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD1

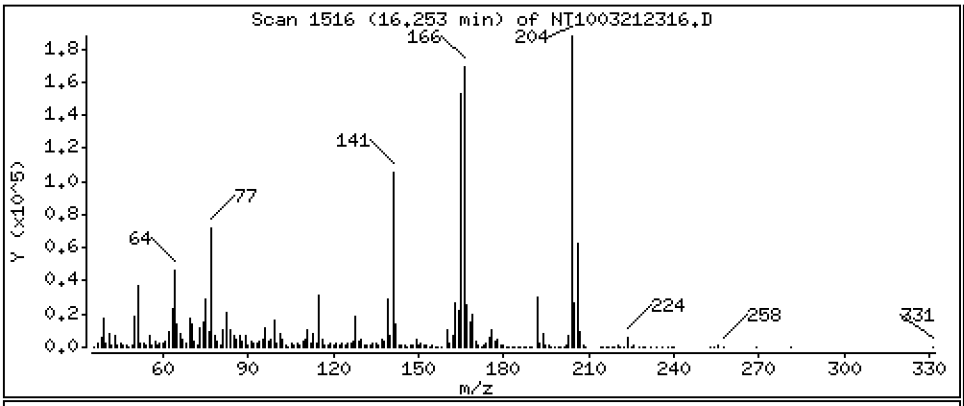
Operator: VTS

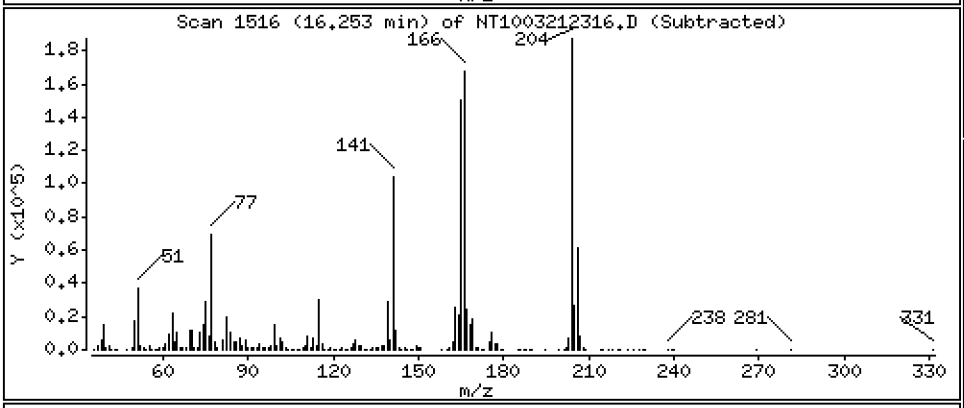
Column phase: ZB-5msi

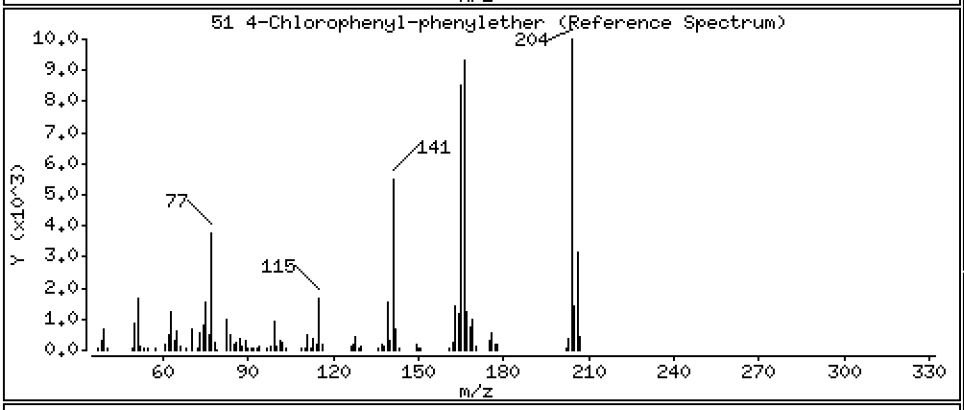
Column diameter: 0.25

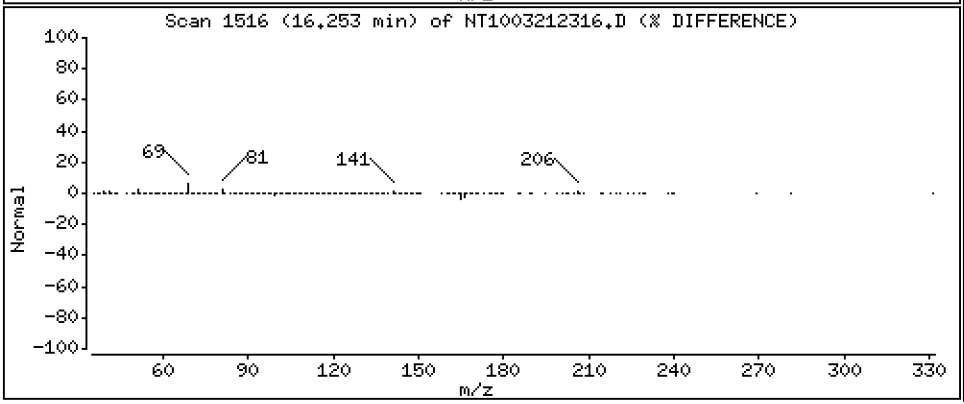
51 4-Chlorophenyl-phenylether

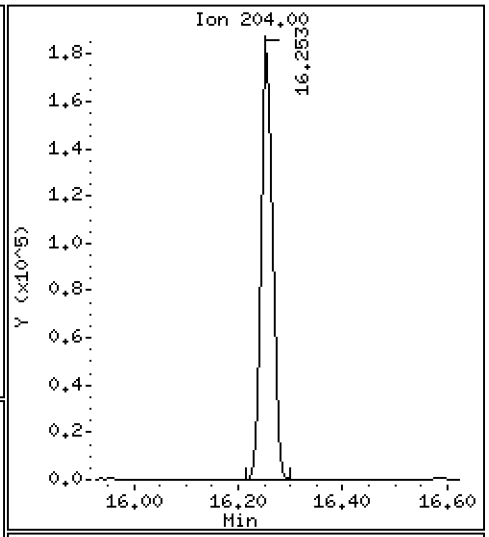
Concentration: 4.254 ug/mL

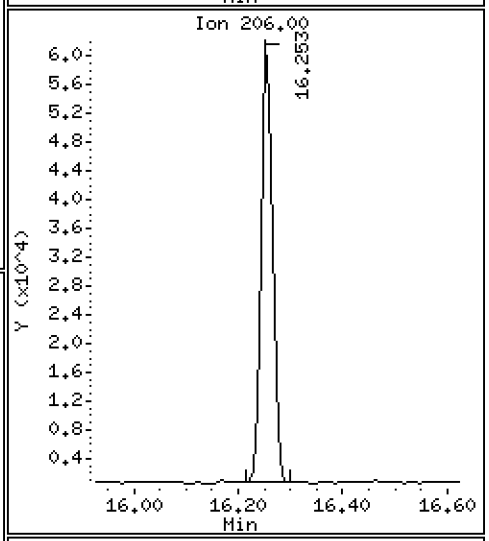


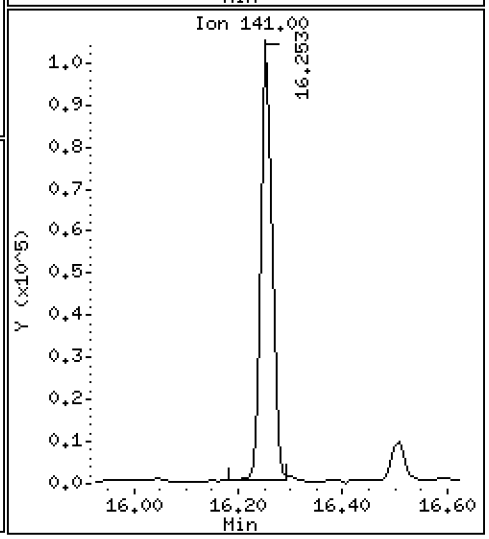












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212316.D

Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD1

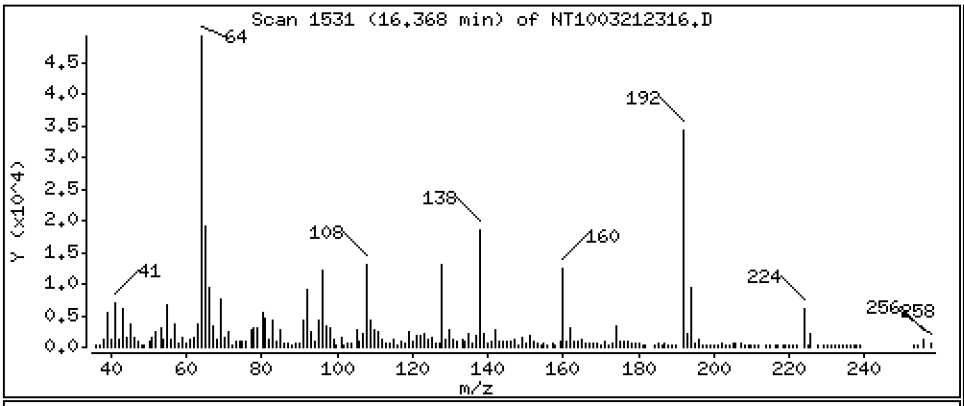
Operator: VTS

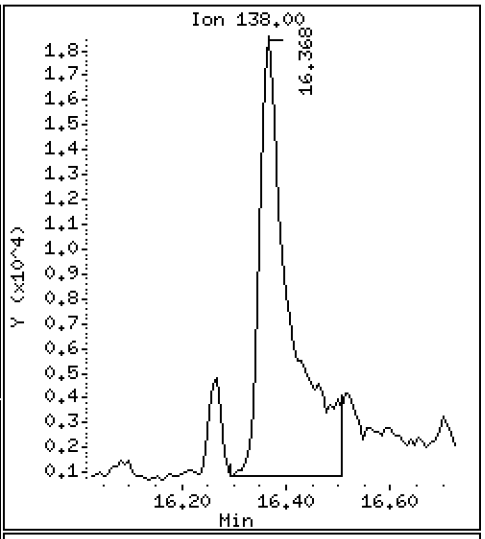
Column phase: ZB-5msi

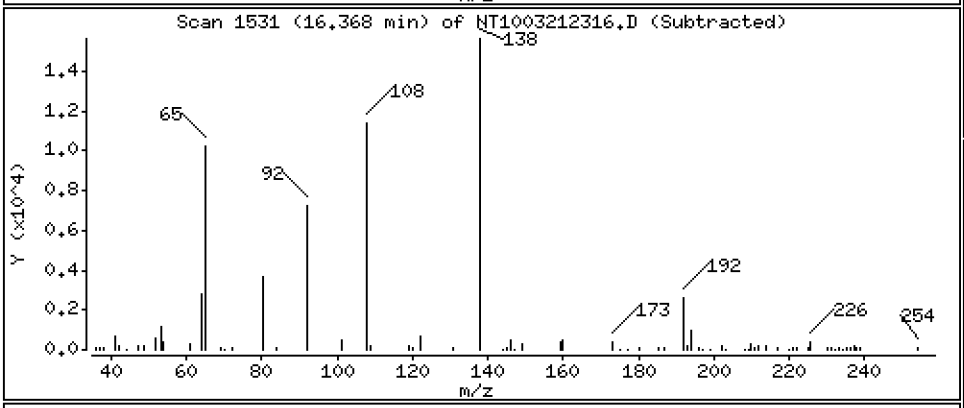
Column diameter: 0.25

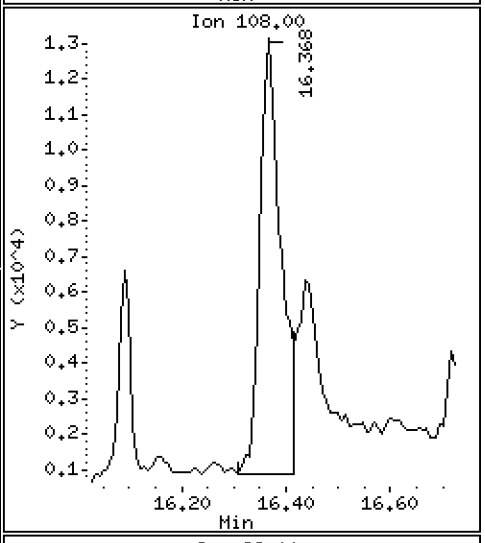
52 4-Nitroaniline

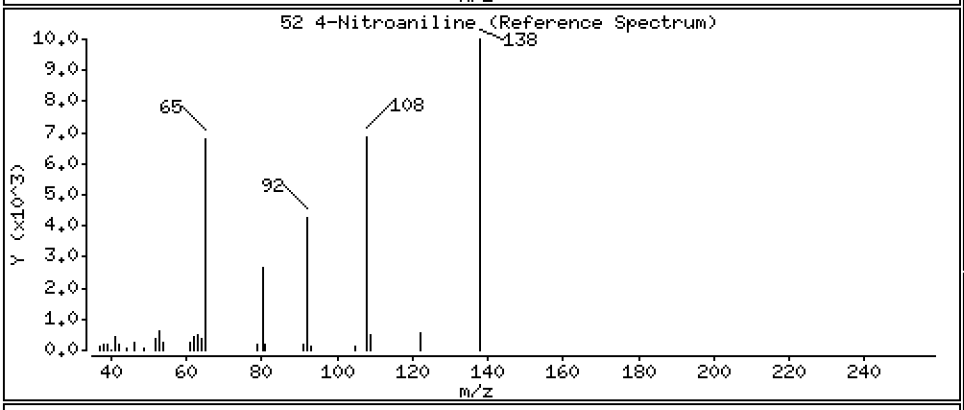
Concentration: 2.666 ug/mL

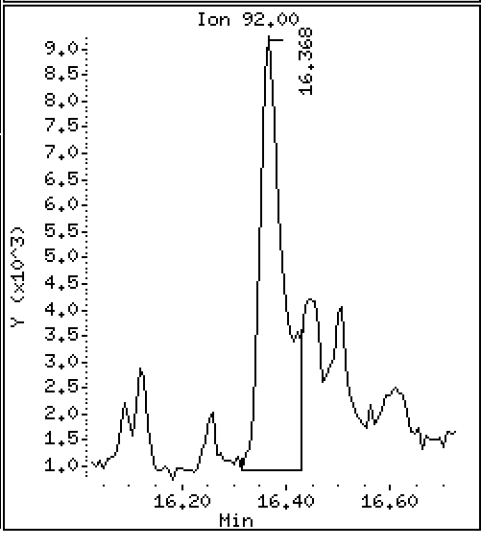


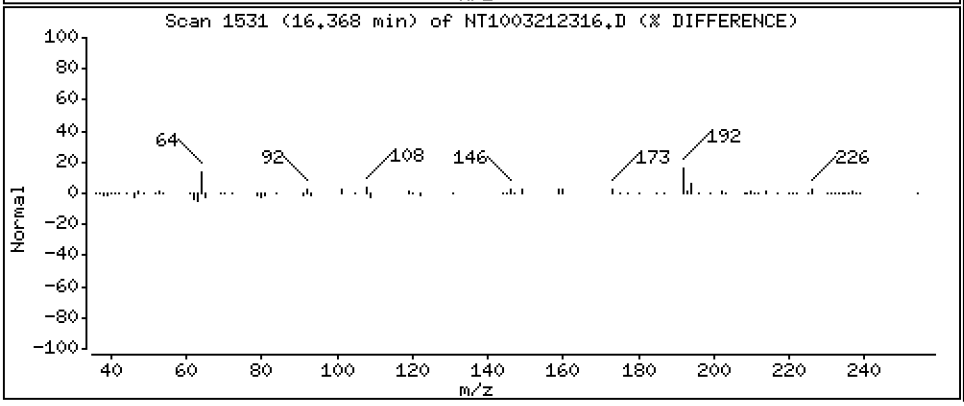












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Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD1

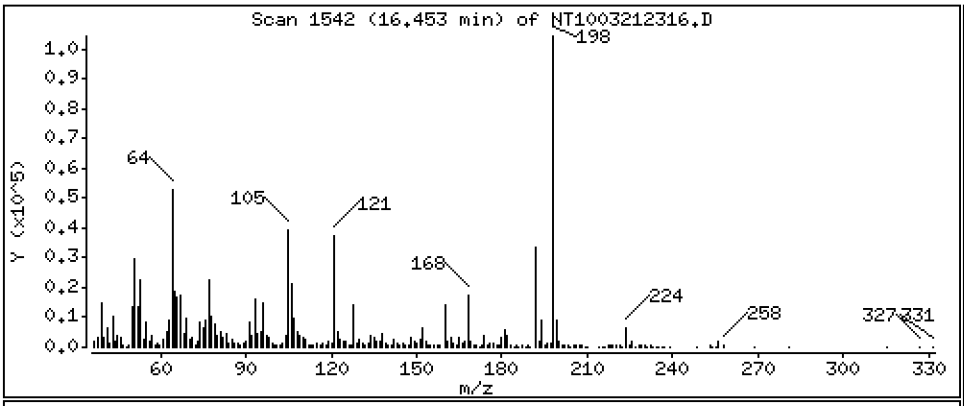
Operator: VTS

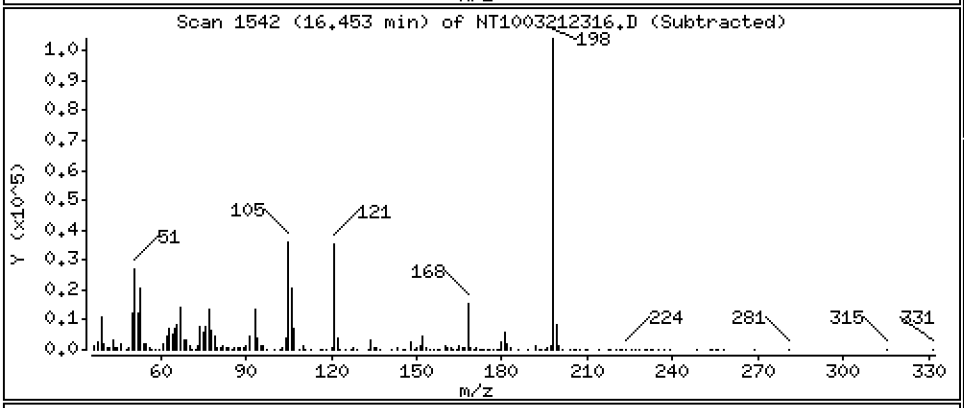
Column phase: ZB-5msi

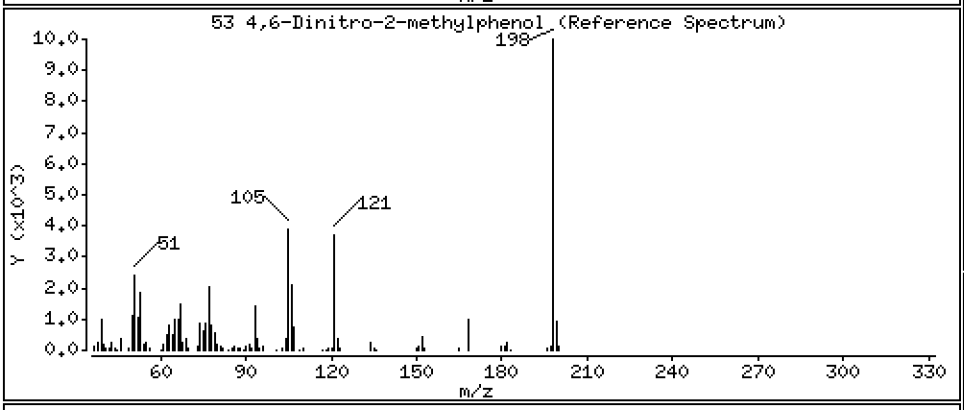
Column diameter: 0.25

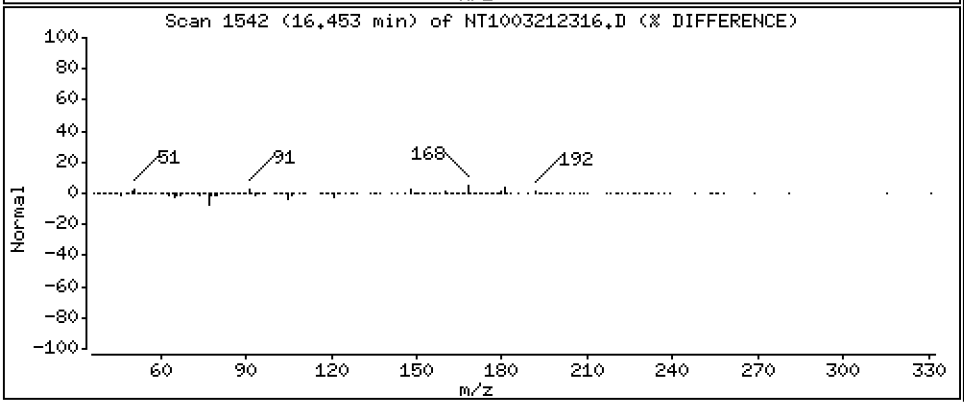
53 4,6-Dinitro-2-methylphenol

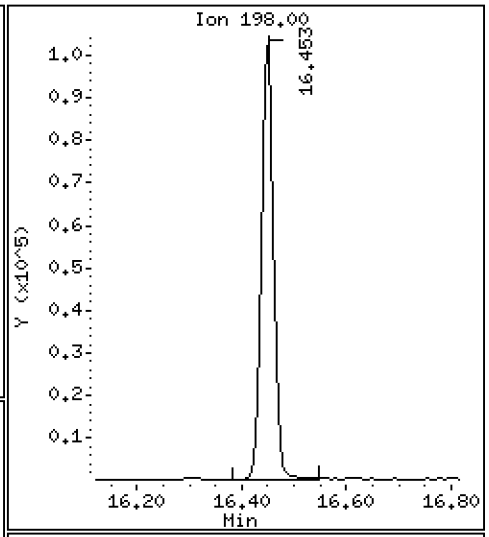
Concentration: 7.656 ug/mL

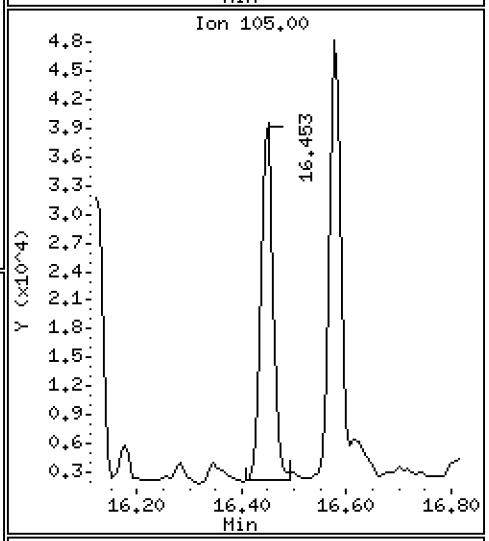


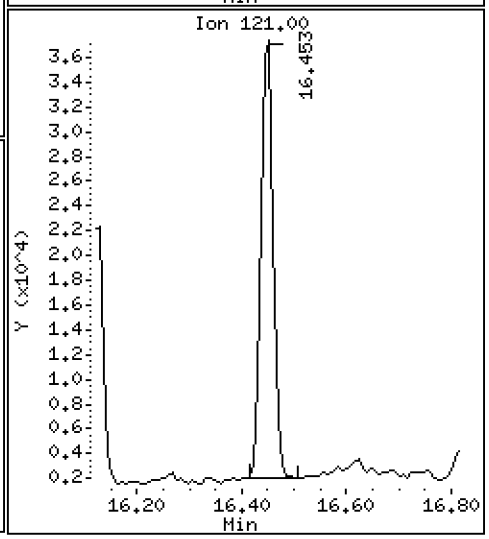












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Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD1

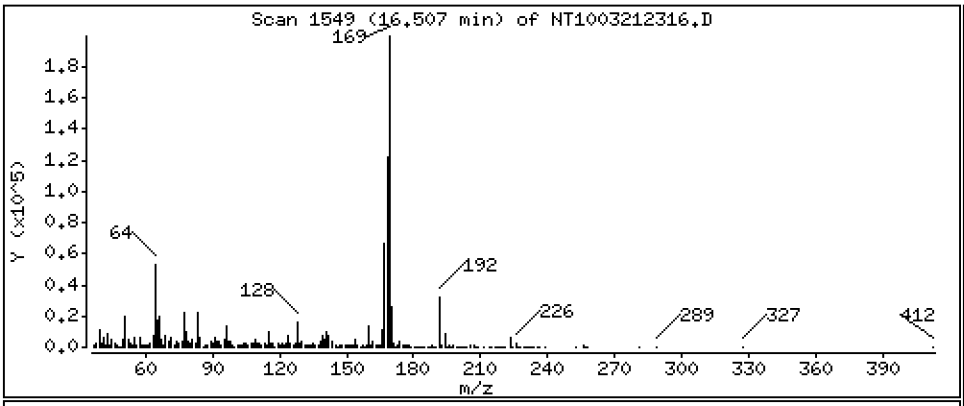
Operator: VTS

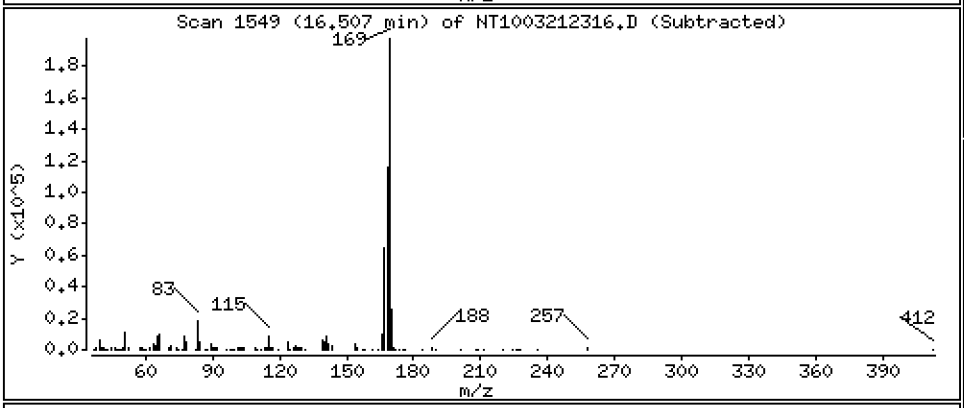
Column phase: ZB-5msi

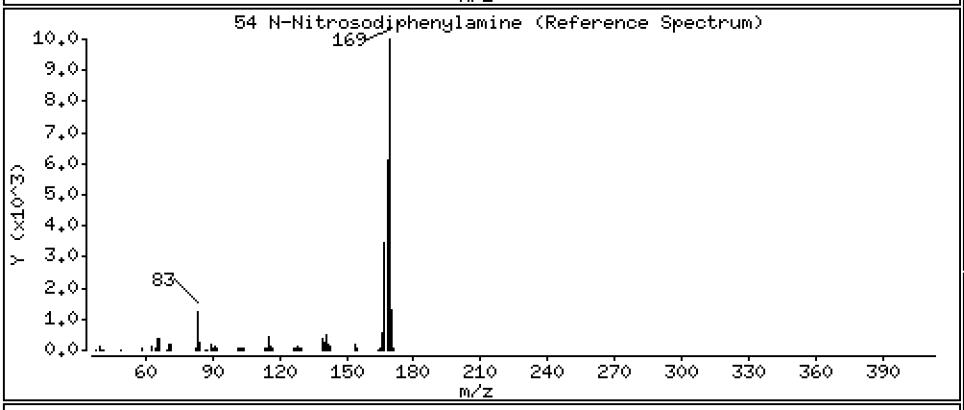
Column diameter: 0.25

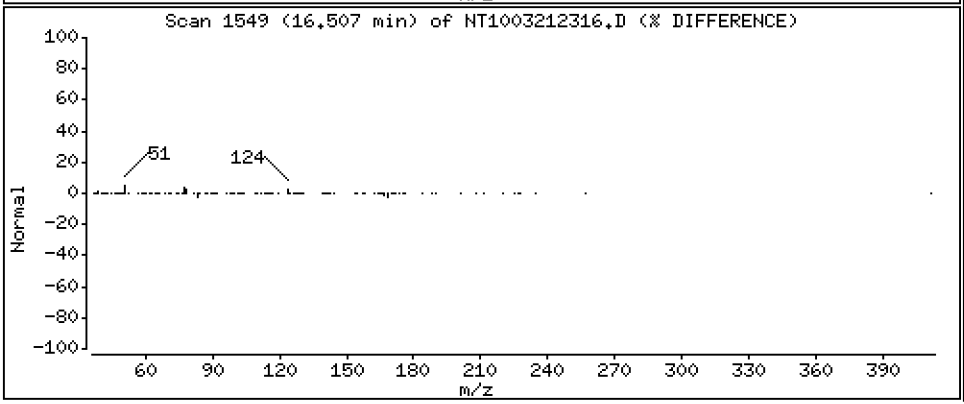
54 N-Nitrosodiphenylamine

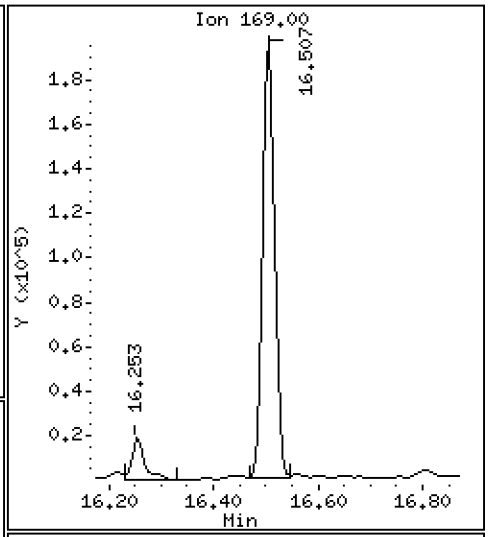
Concentration: 3.220 ug/mL

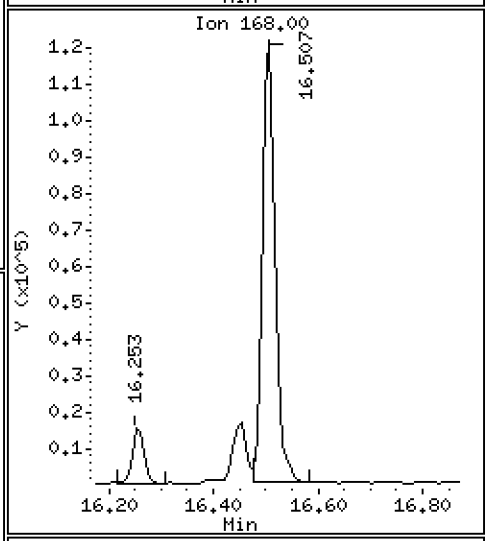


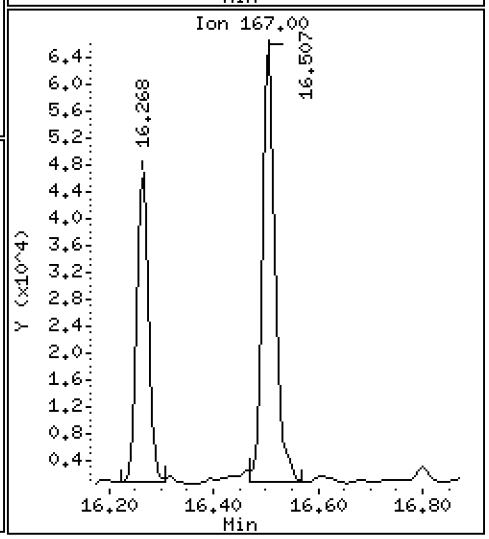












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Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD1

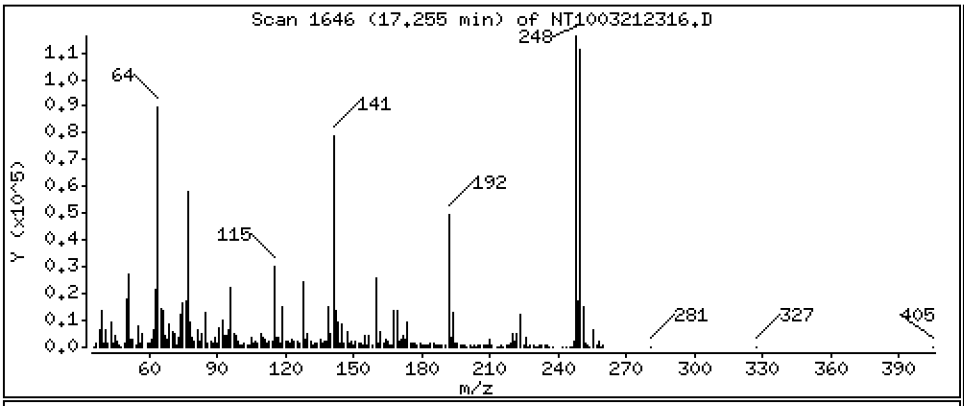
Operator: VTS

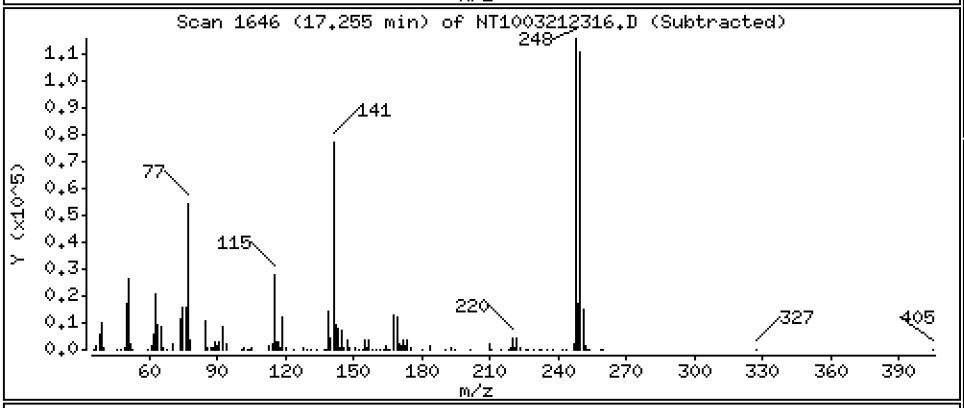
Column phase: ZB-5msi

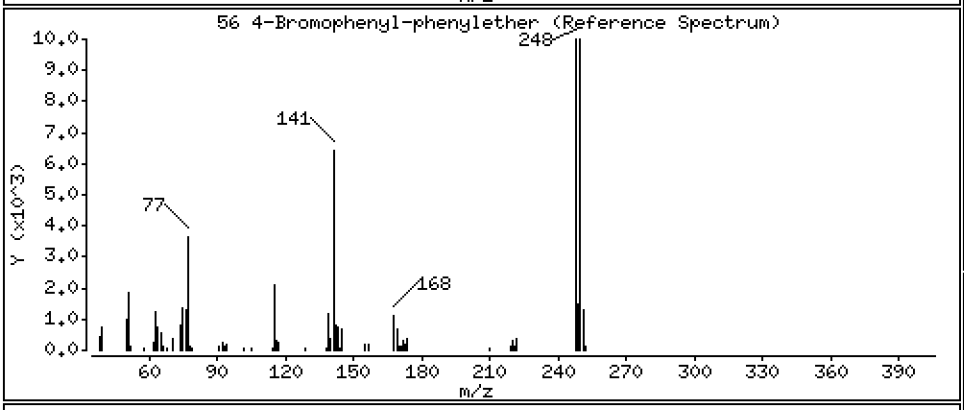
Column diameter: 0.25

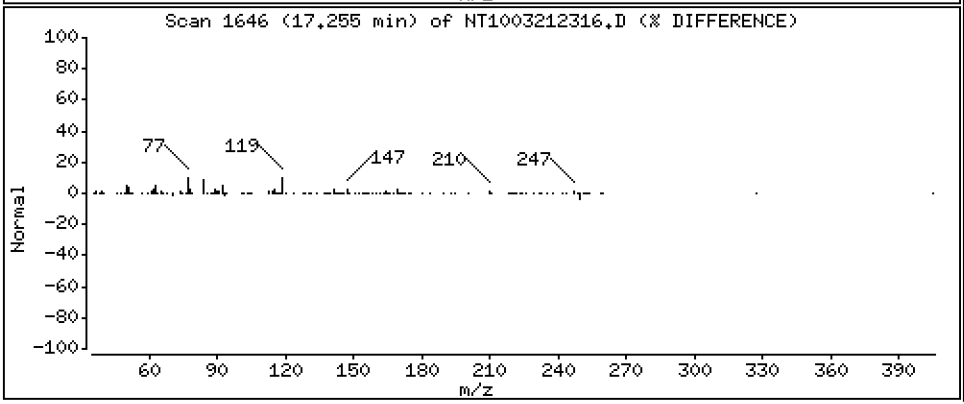
56 4-Bromophenyl-phenylether

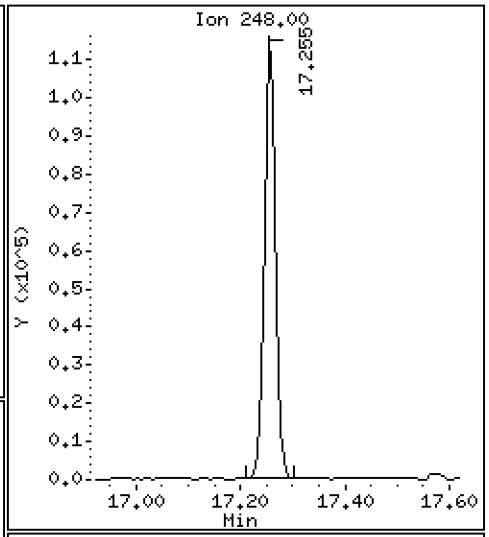
Concentration: 4.365 ug/mL

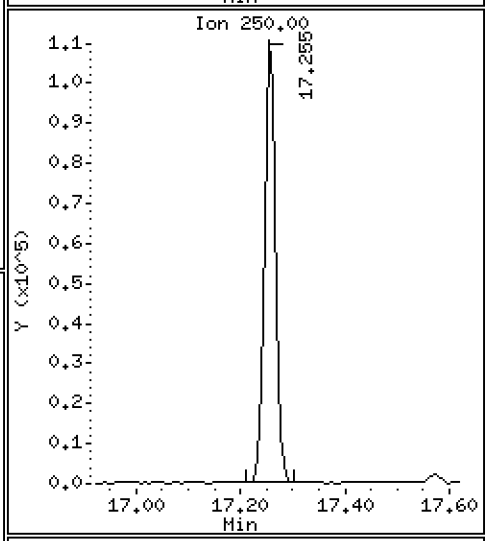


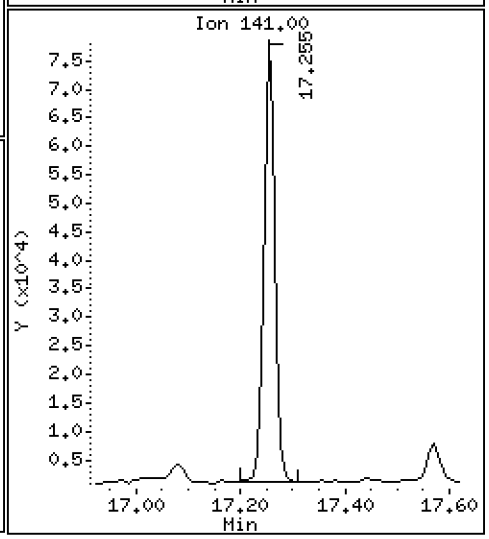












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Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD1

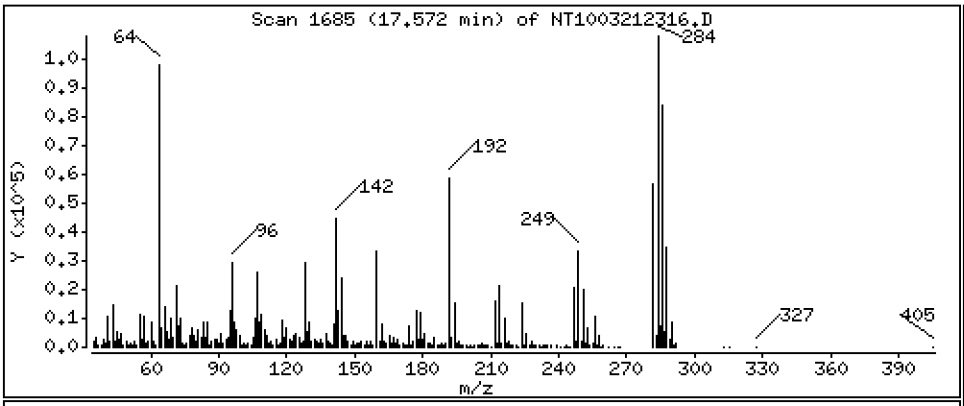
Operator: VTS

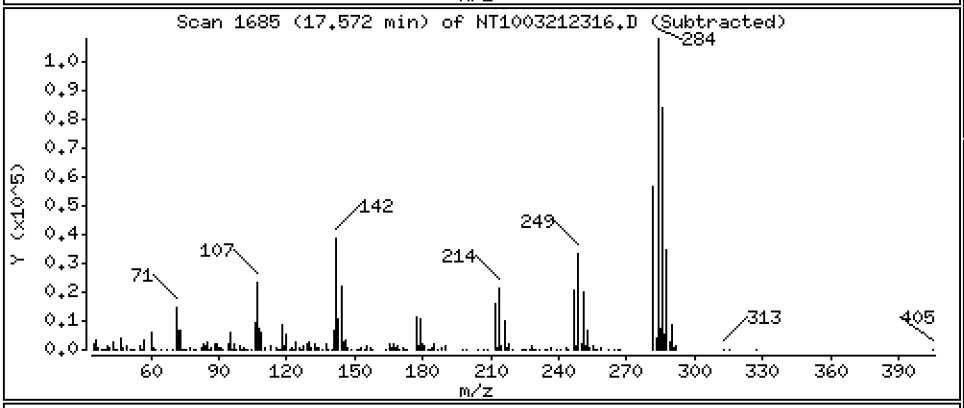
Column phase: ZB-5msi

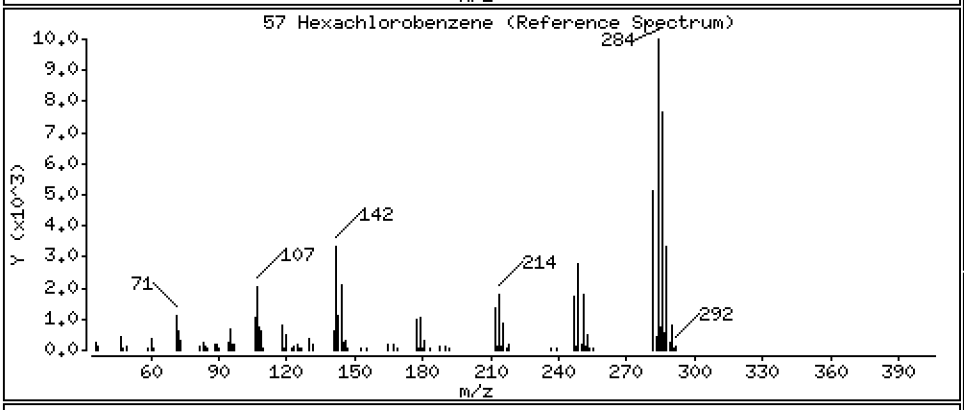
Column diameter: 0.25

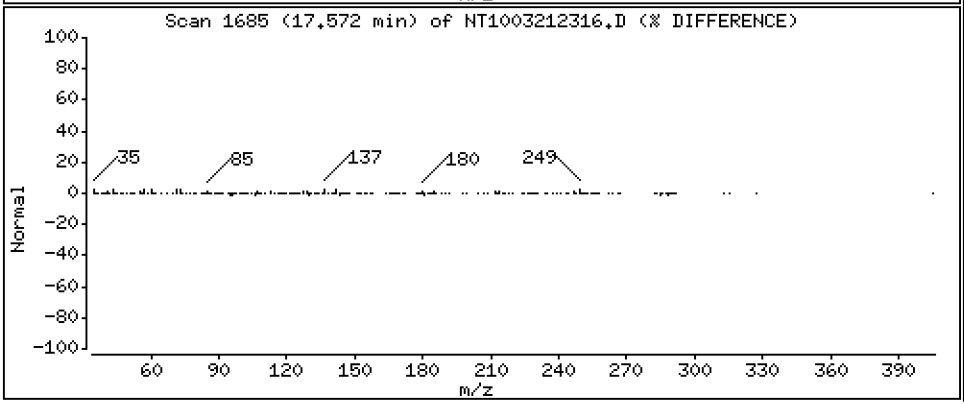
57 Hexachlorobenzene

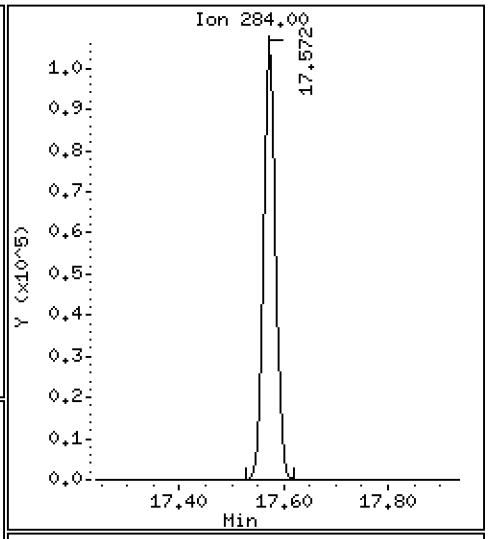
Concentration: 4.137 ug/mL

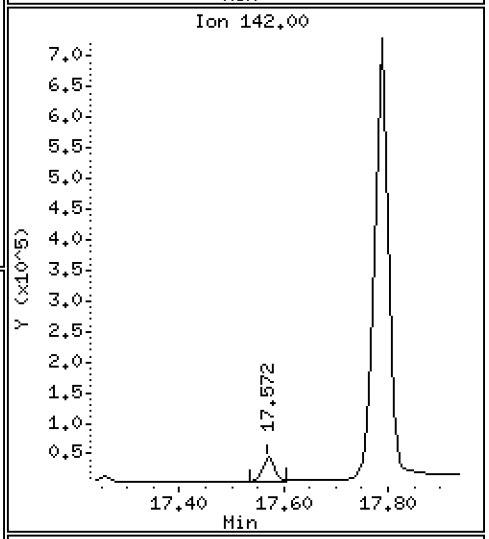


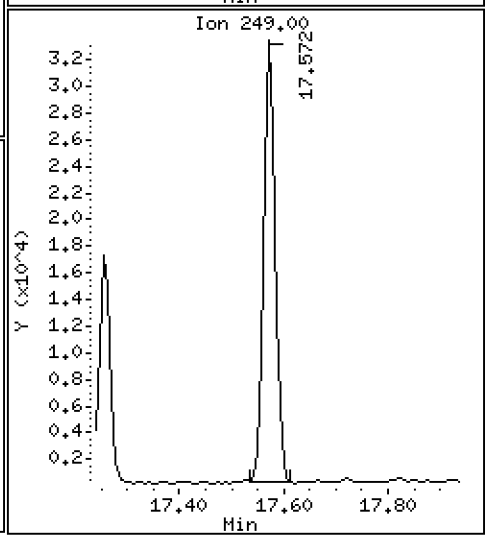












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Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD1

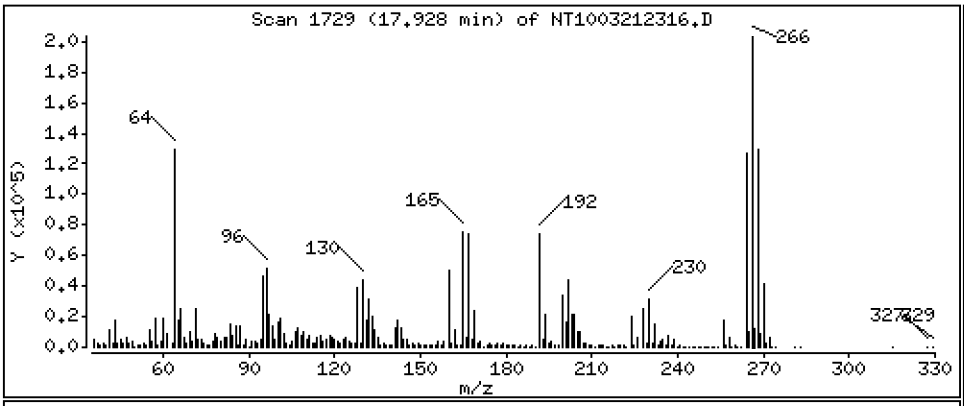
Operator: VTS

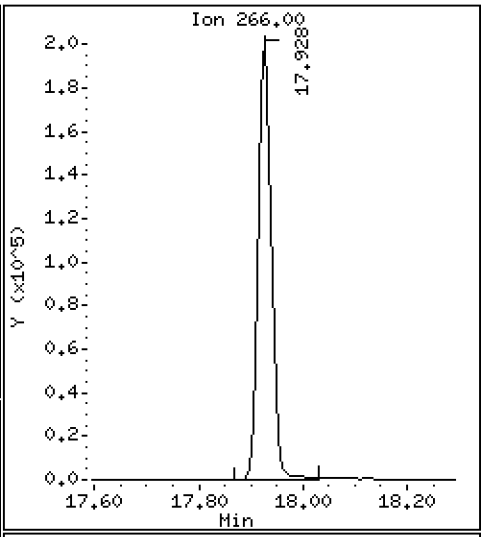
Column phase: ZB-5msi

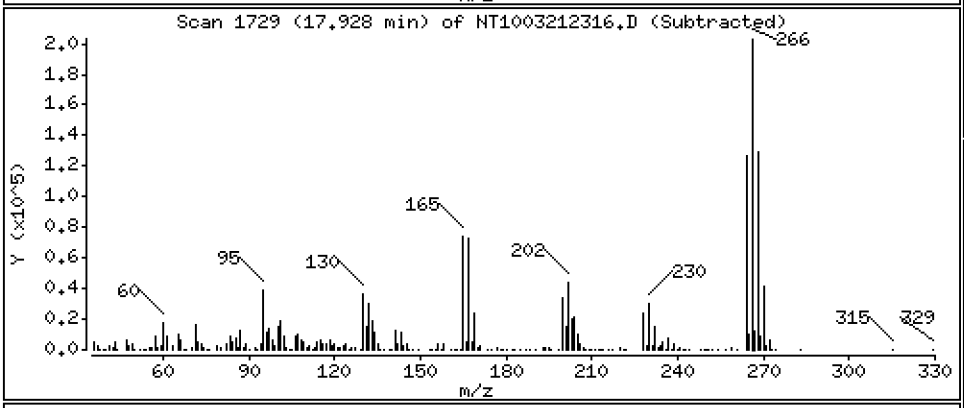
Column diameter: 0.25

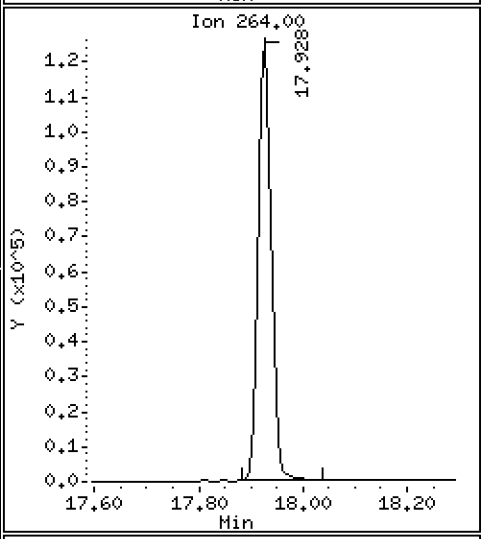
58 Pentachlorophenol

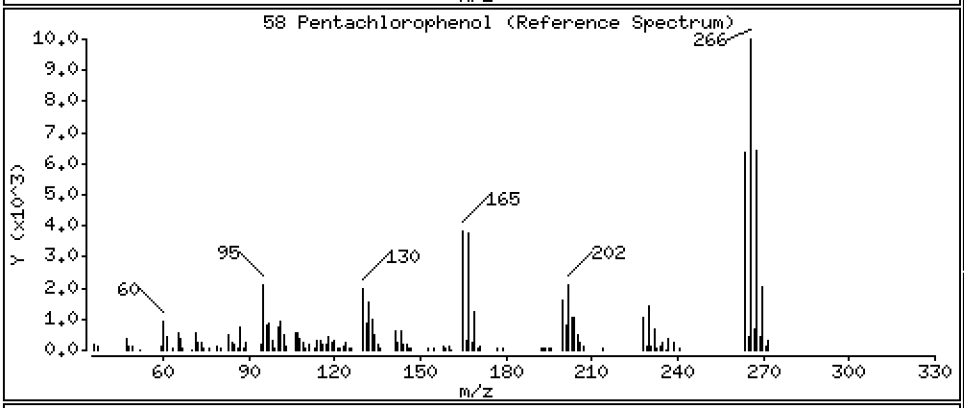
Concentration: 13.81 ug/mL

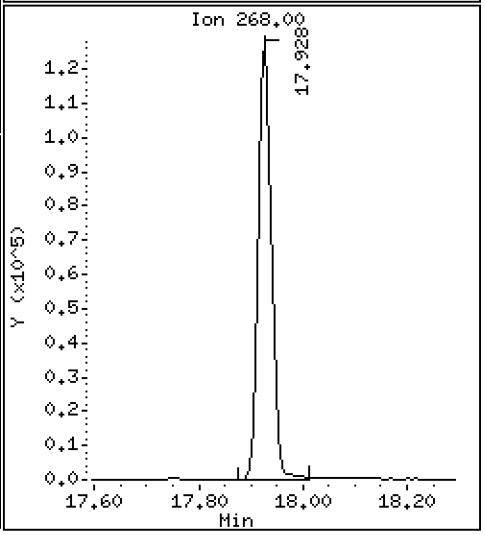


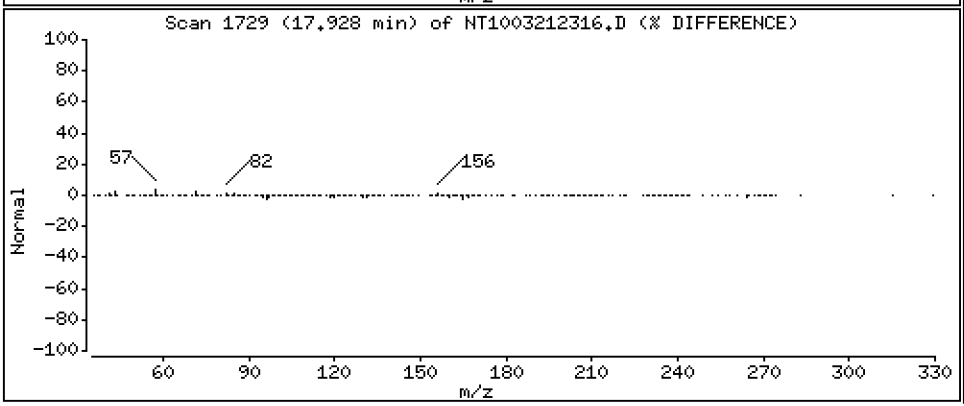












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Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD1

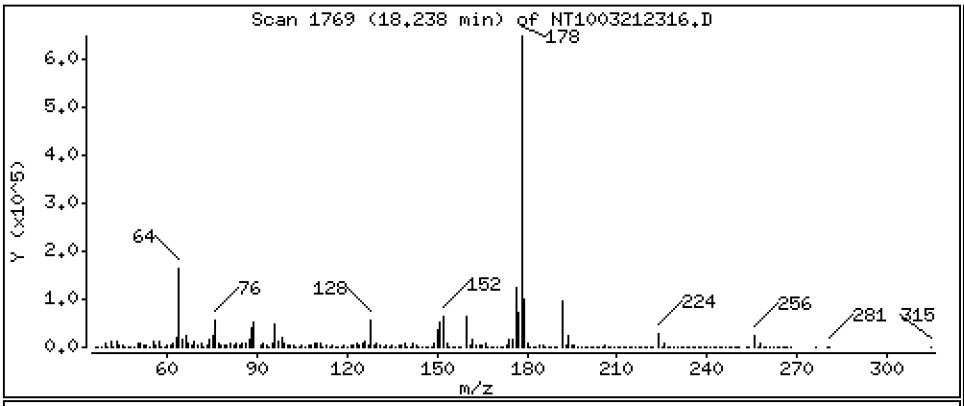
Operator: VTS

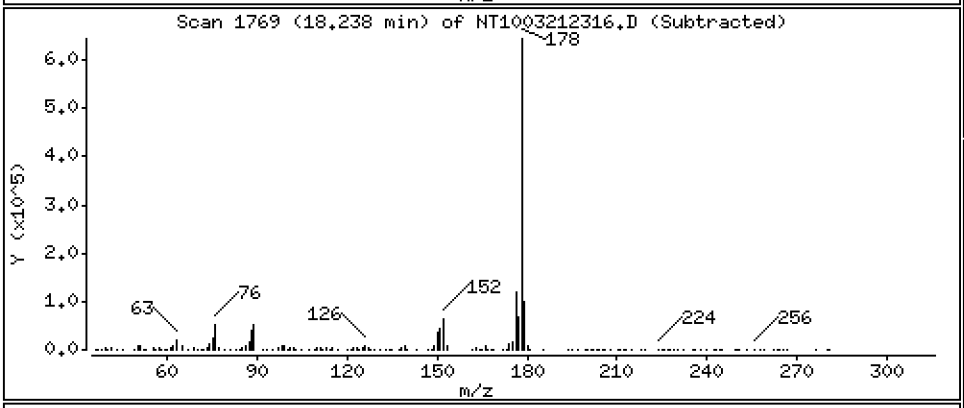
Column phase: ZB-5msi

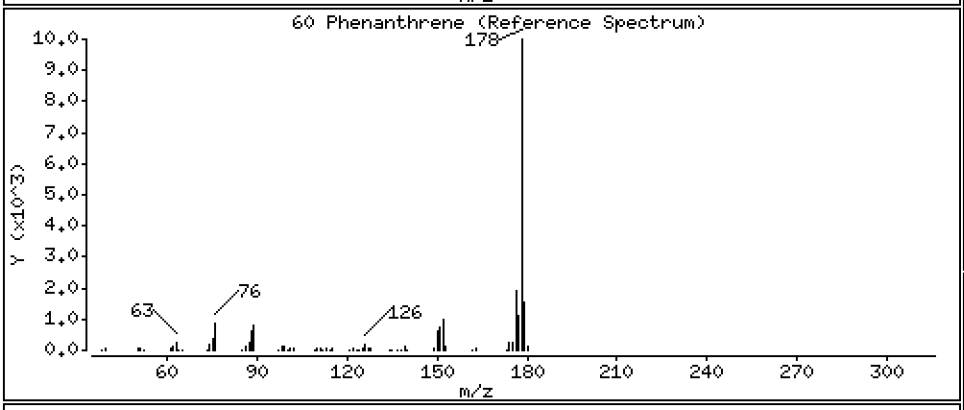
Column diameter: 0.25

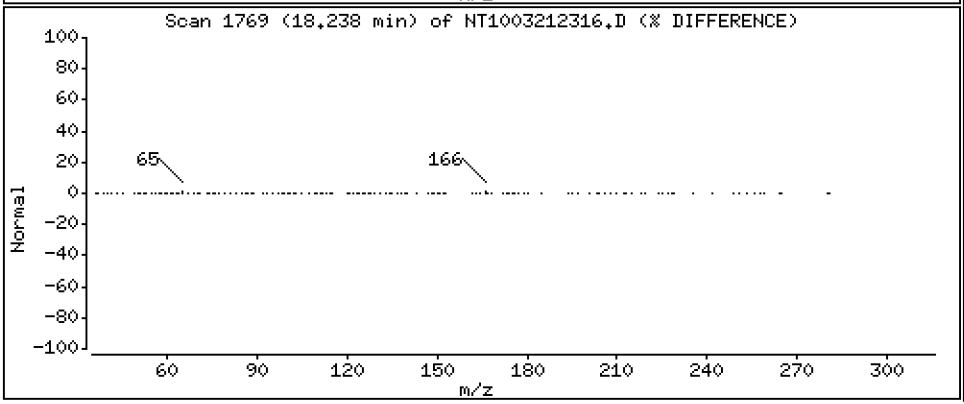
60 Phenanthrene

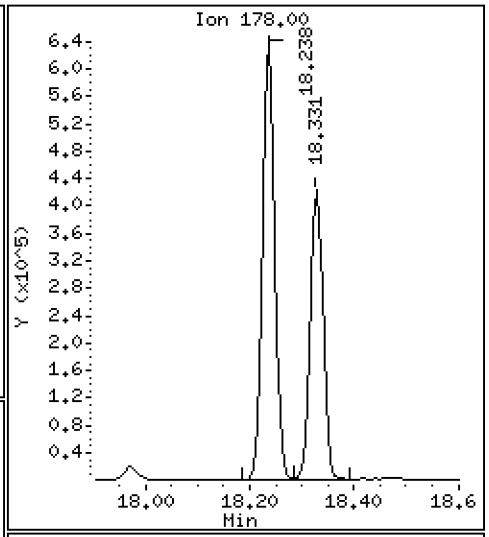
Concentration: 5.435 ug/mL

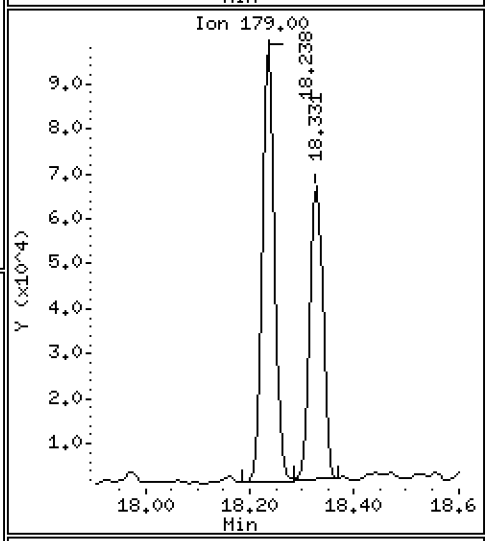


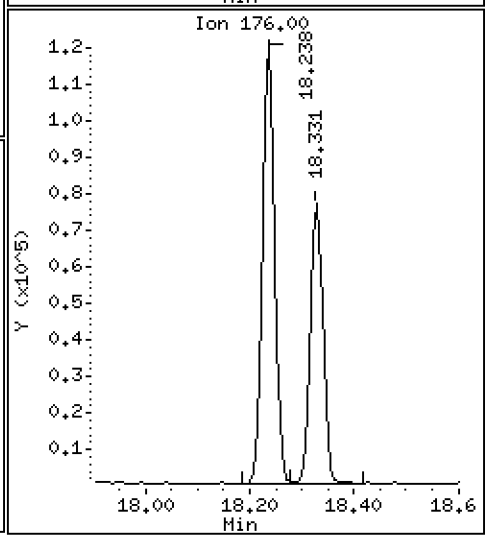












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212316.D

Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD1

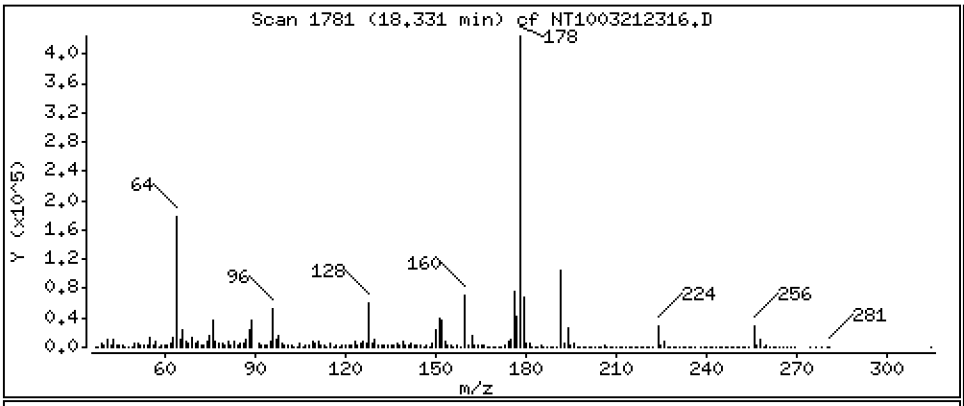
Operator: VTS

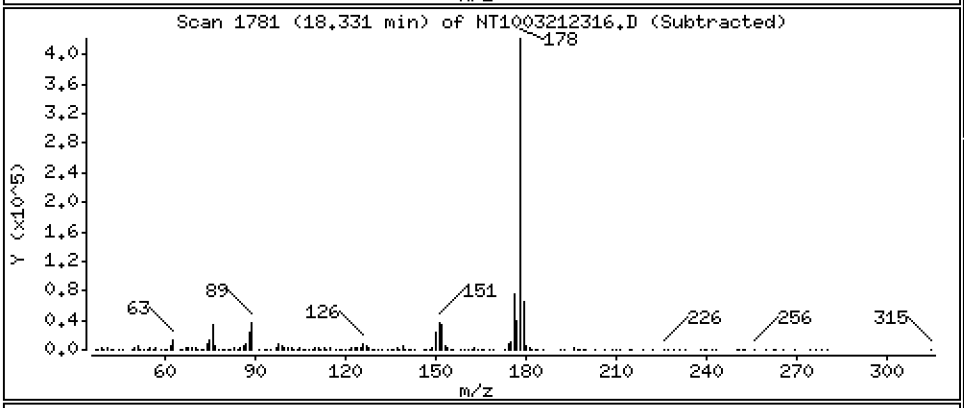
Column phase: ZB-5msi

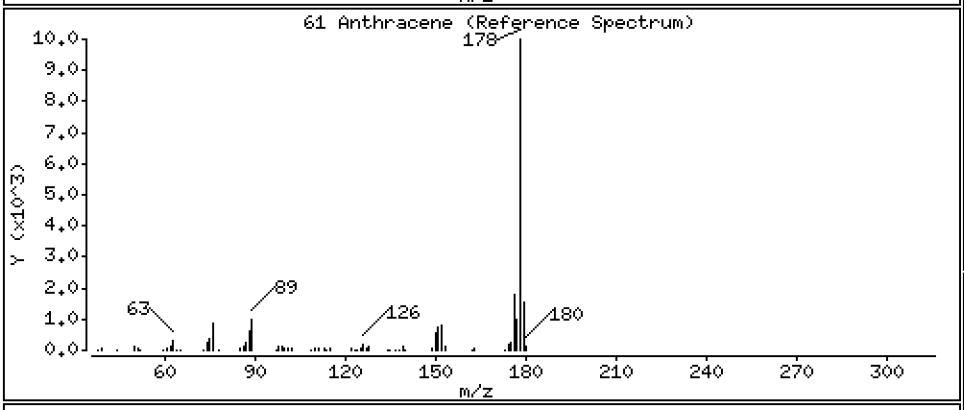
Column diameter: 0.25

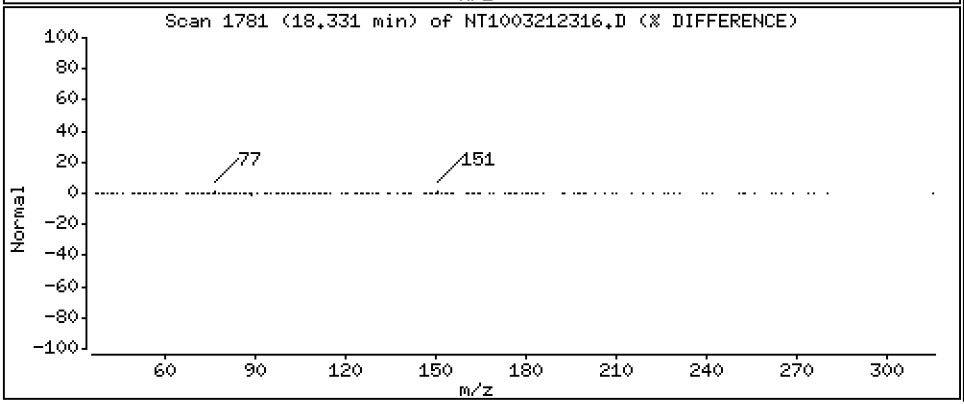
61 Anthracene

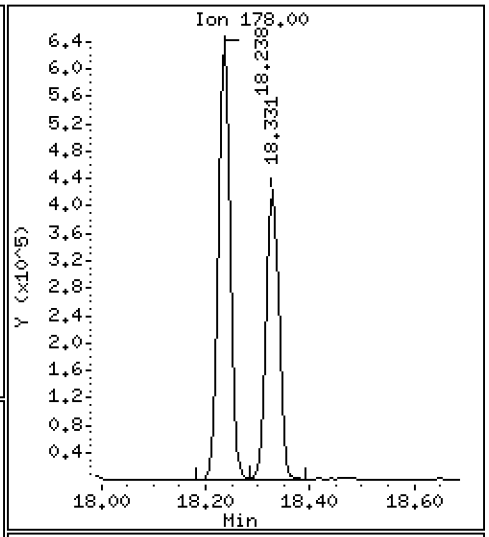
Concentration: 3.685 ug/mL

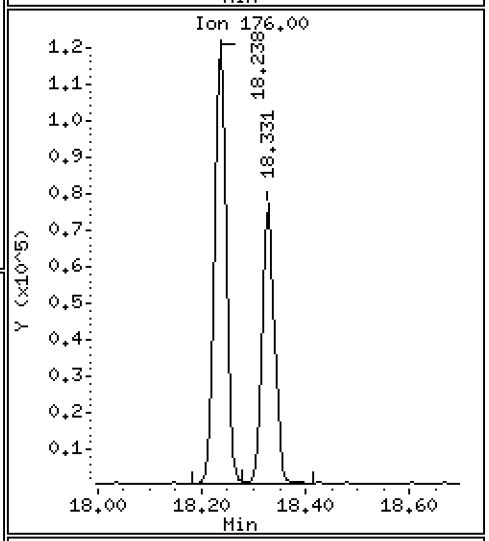


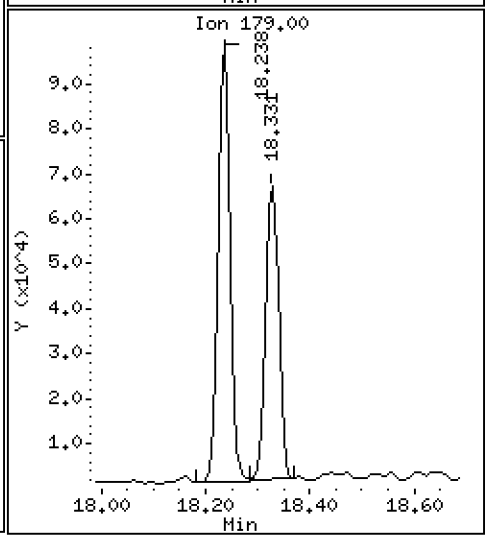












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Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD1

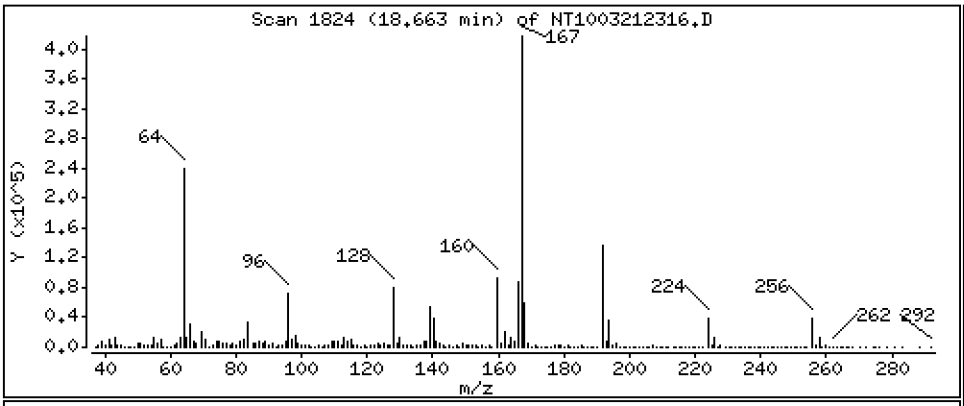
Operator: VTS

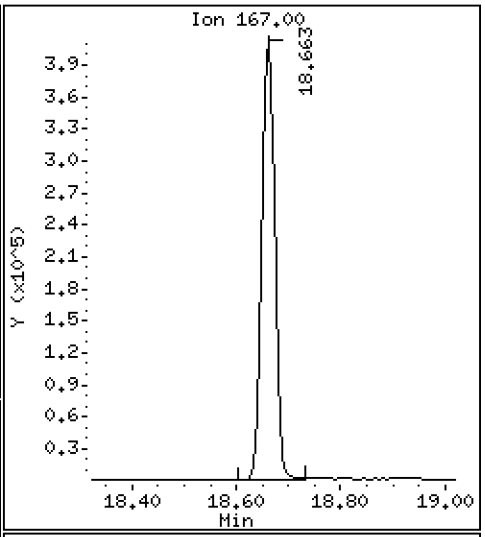
Column phase: ZB-5msi

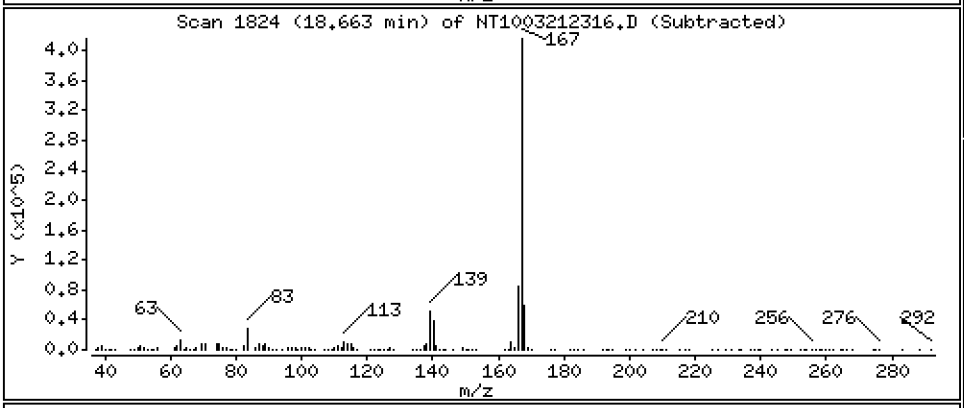
Column diameter: 0.25

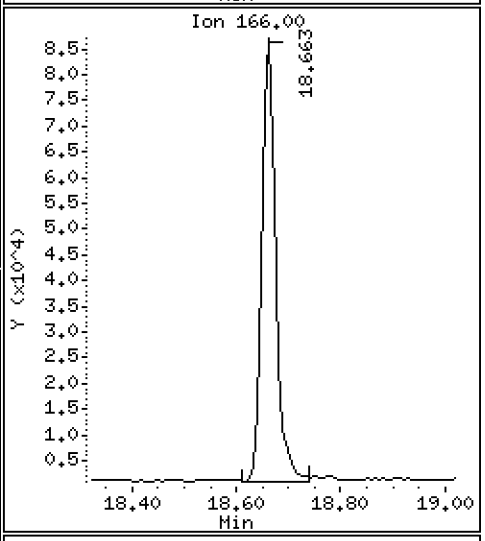
62 Carbazole

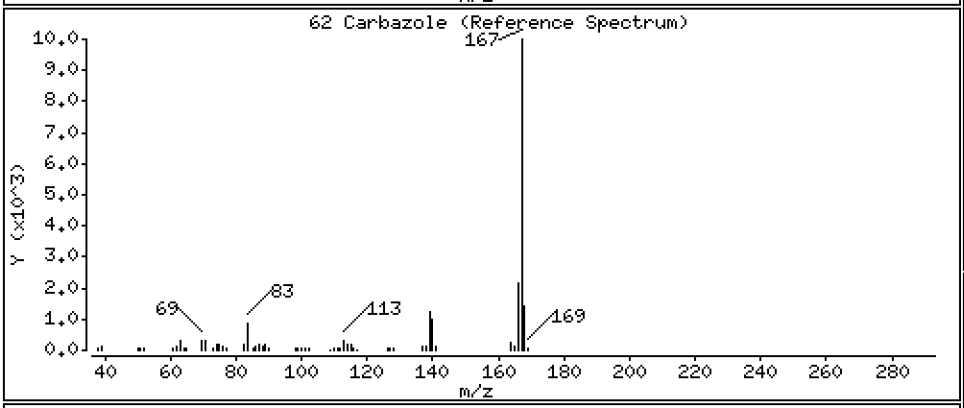
Concentration: 4.097 ug/mL

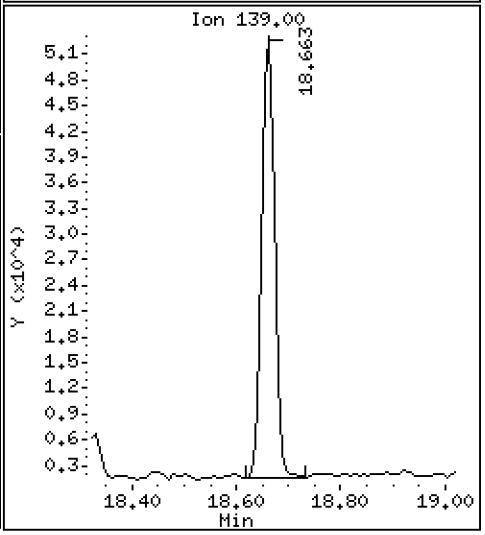


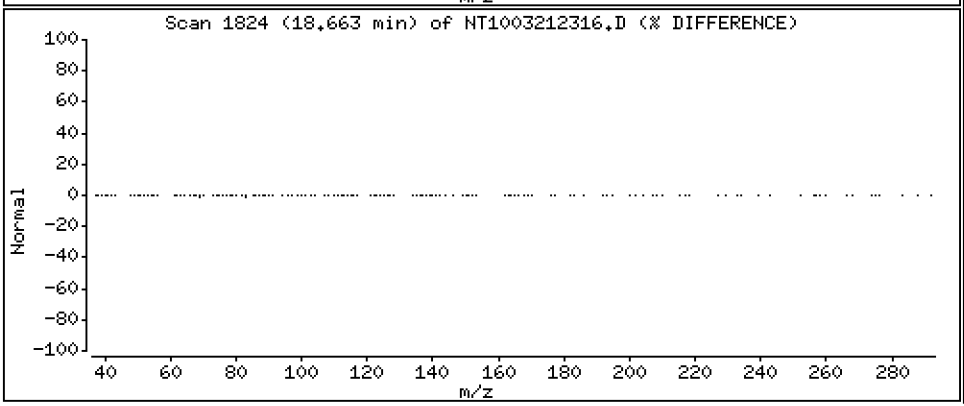












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212316.D

Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD1

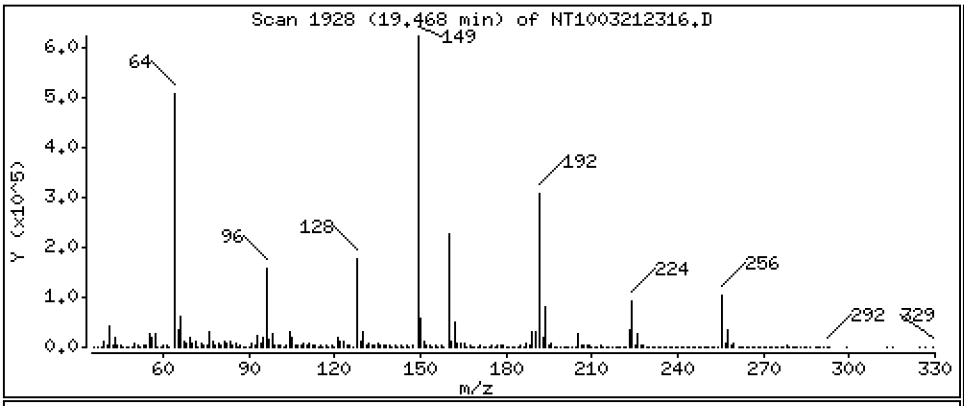
Operator: VTS

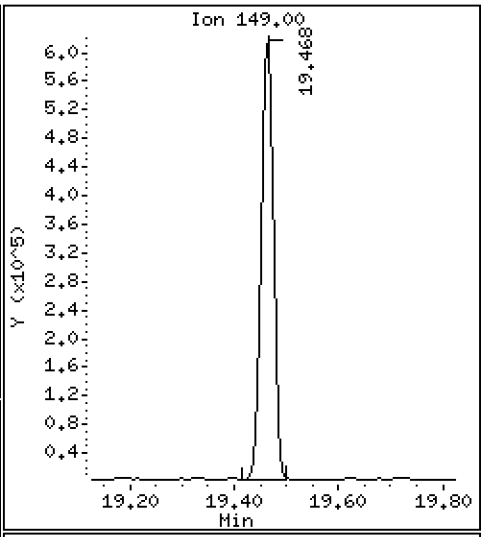
Column phase: ZB-5msi

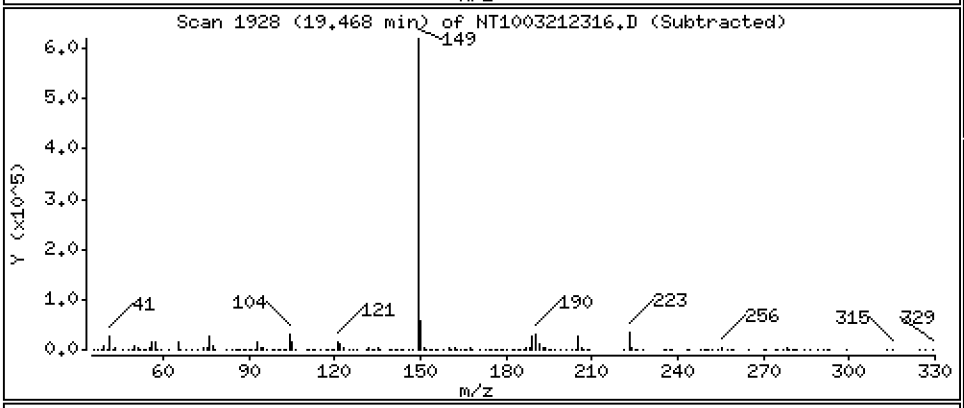
Column diameter: 0.25

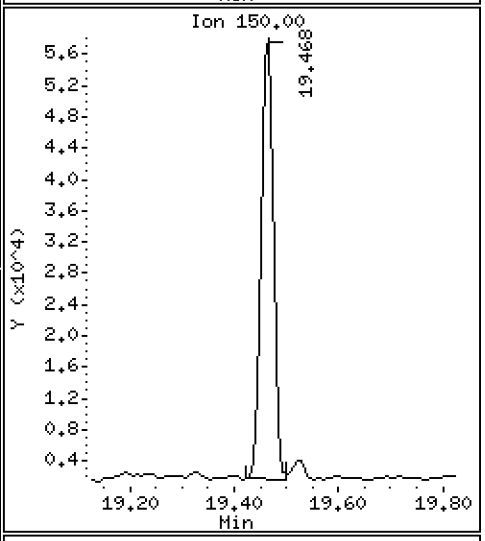
63 Di-n-butylphthalate

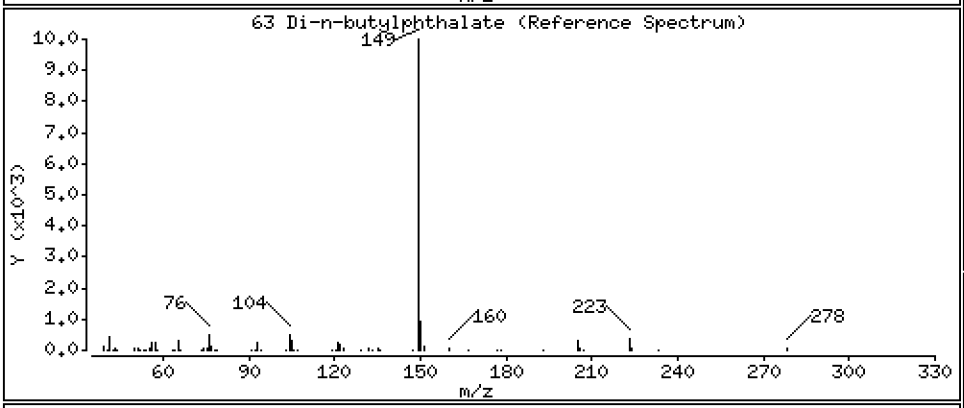
Concentration: 4.295 ug/mL

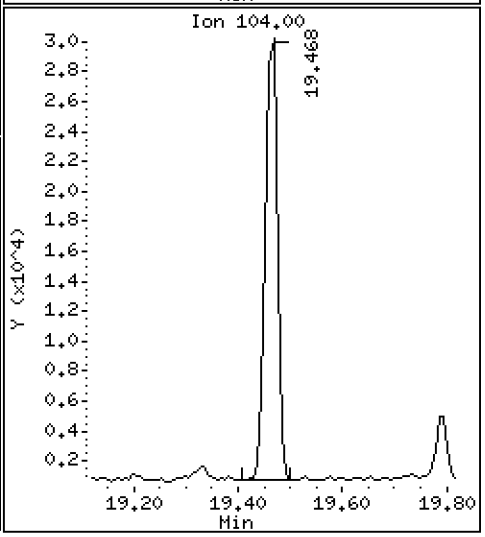


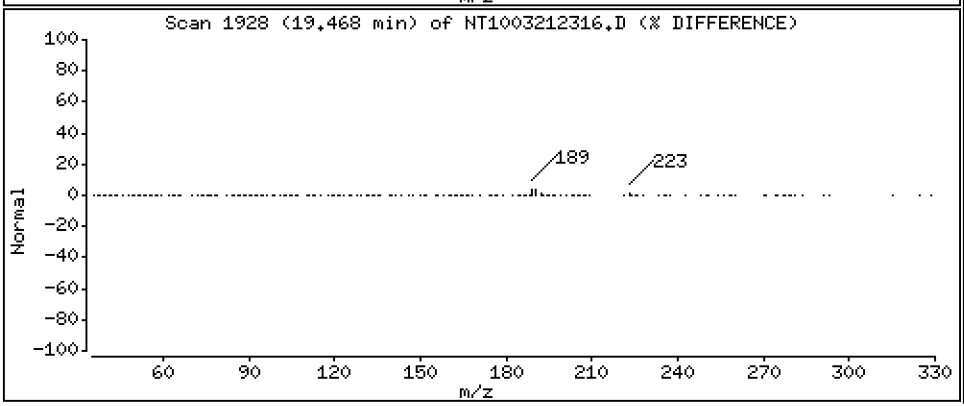












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Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD1

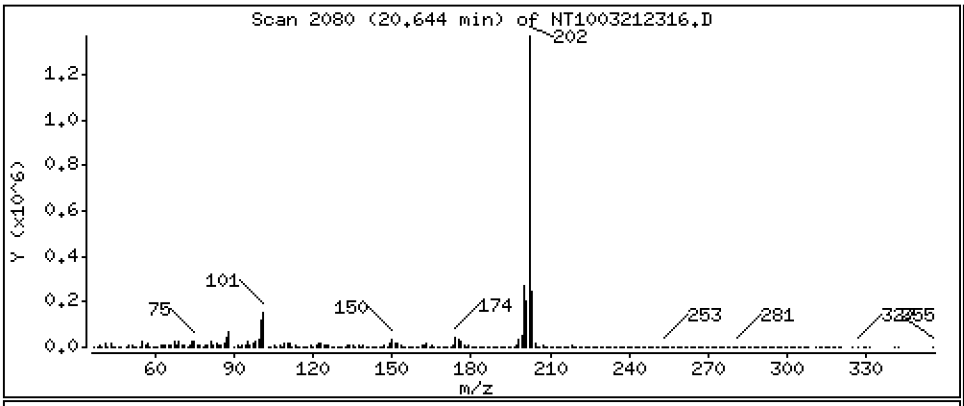
Operator: VTS

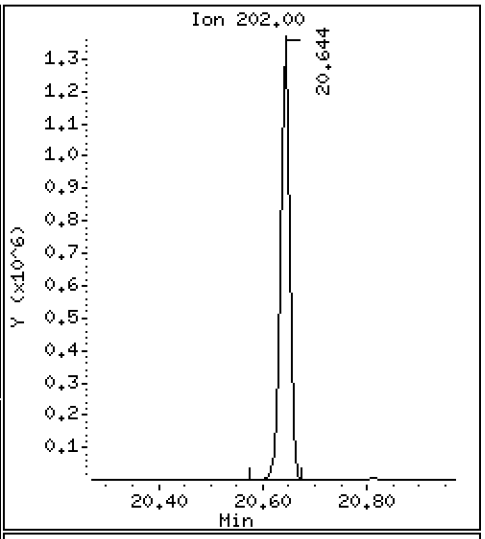
Column phase: ZB-5msi

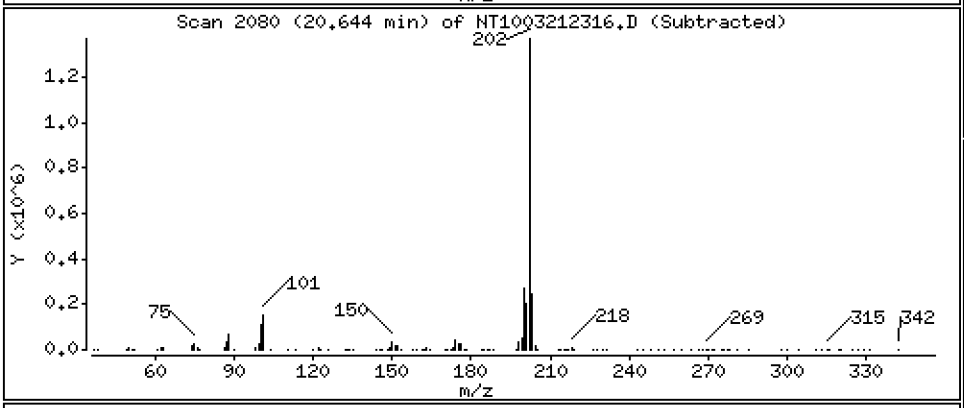
Column diameter: 0.25

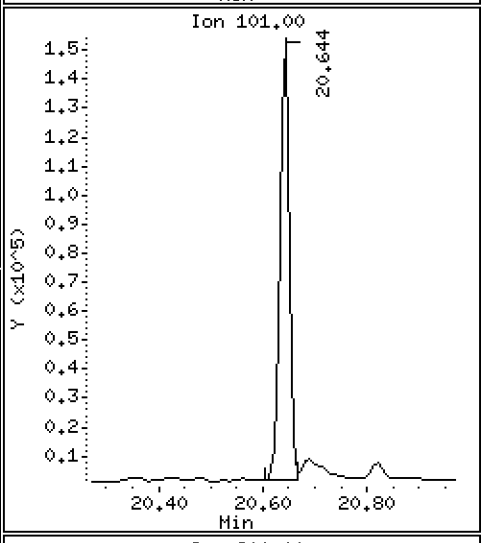
64 Fluoranthene

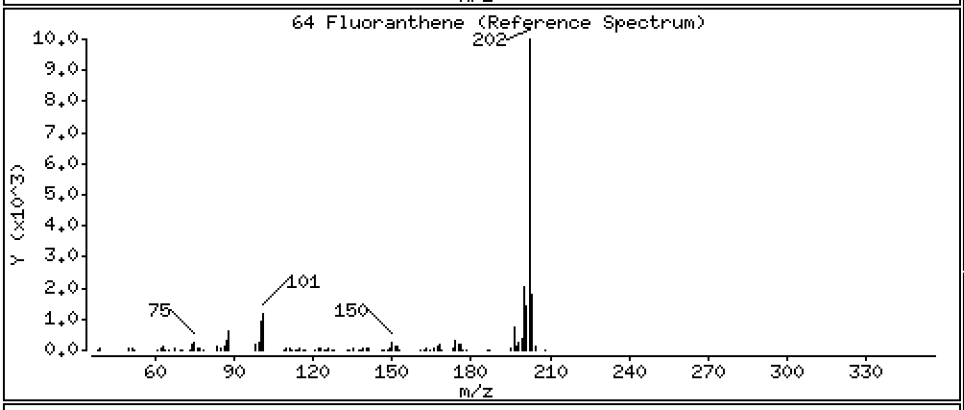
Concentration: 6.680 ug/mL

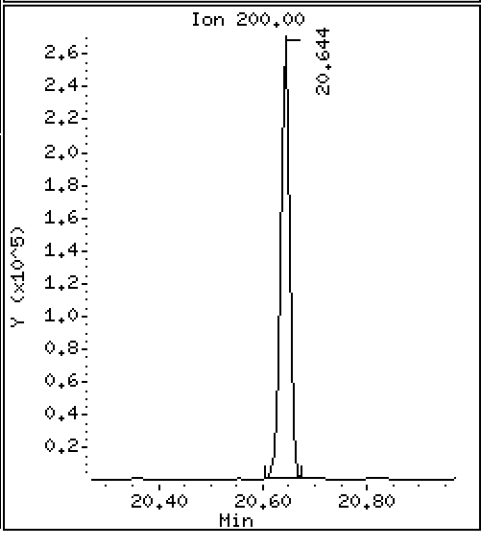


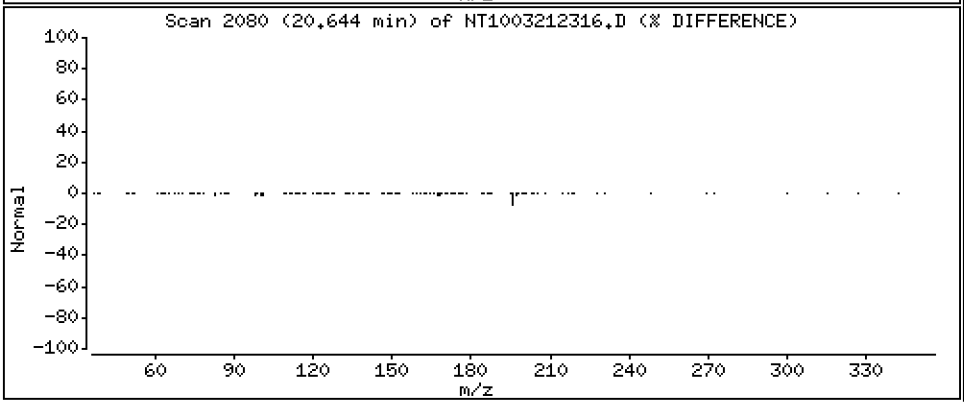












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Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD1

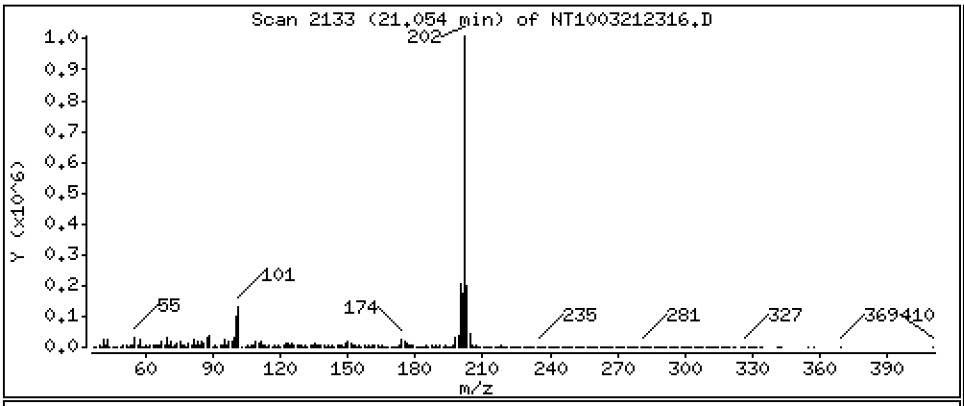
Operator: VTS

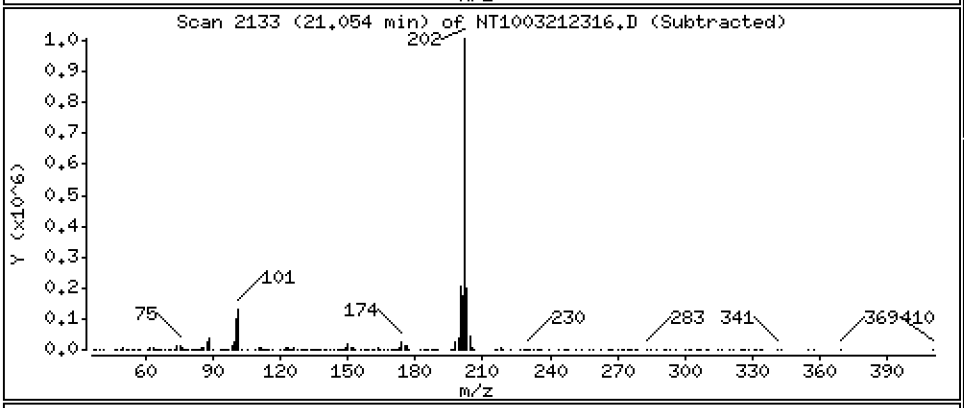
Column phase: ZB-5msi

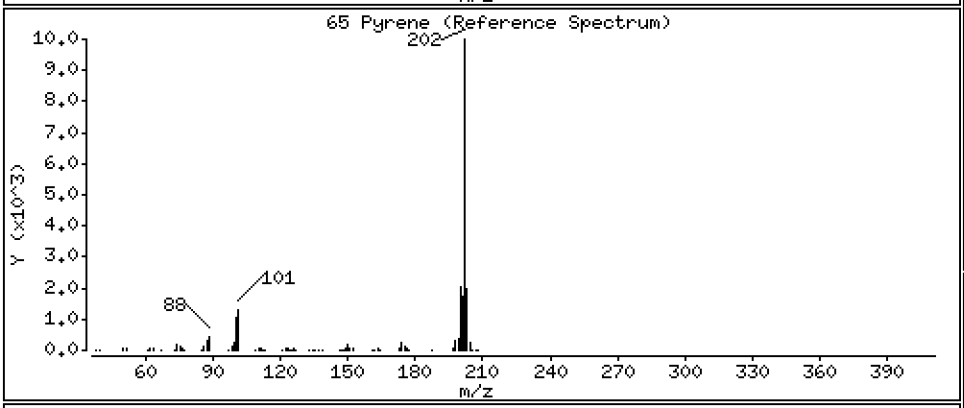
Column diameter: 0.25

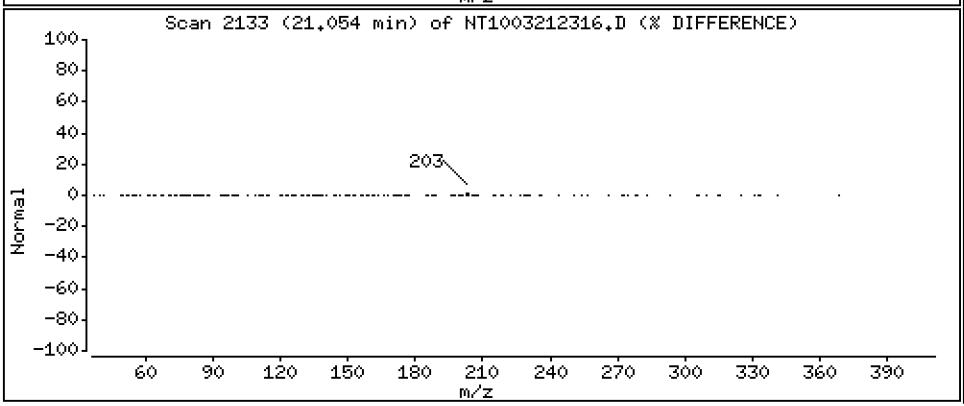
65 Pyrene

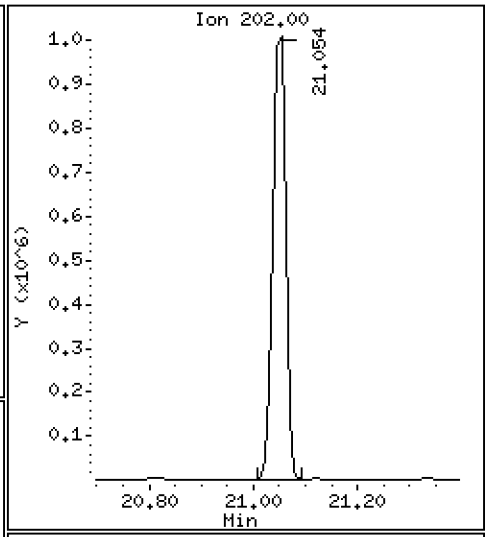
Concentration: 6.227 ug/mL

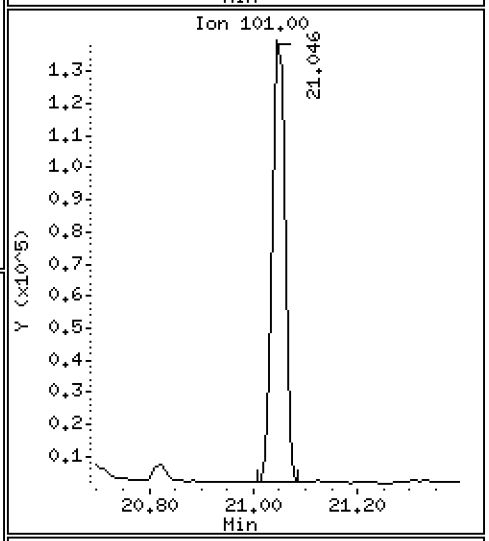


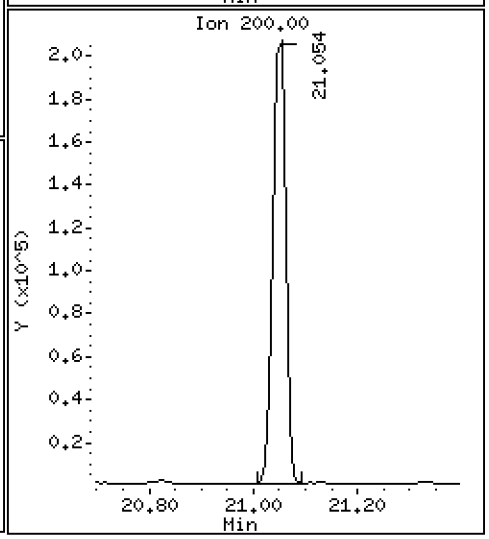












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Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD1

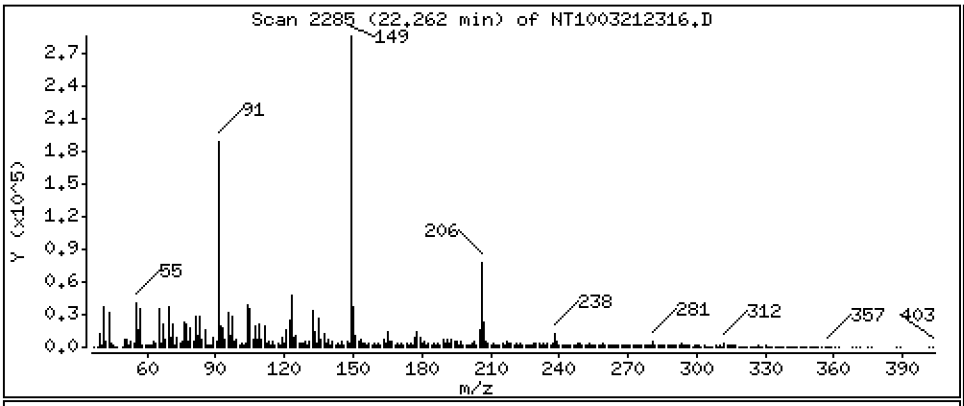
Operator: VTS

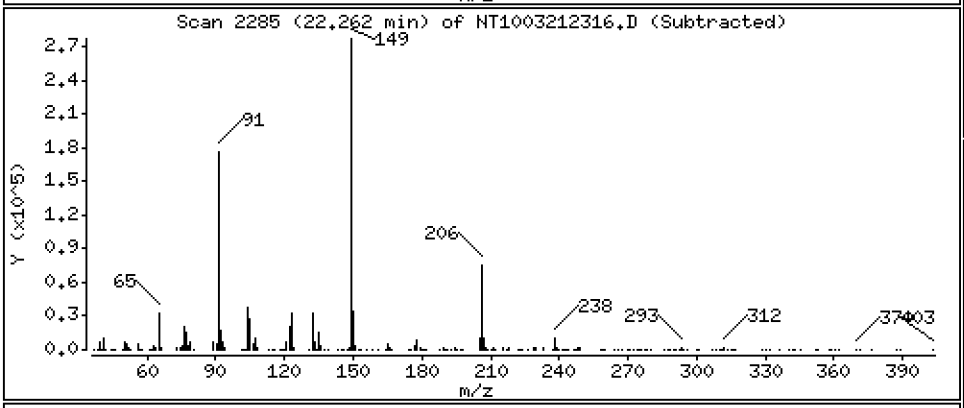
Column phase: ZB-5msi

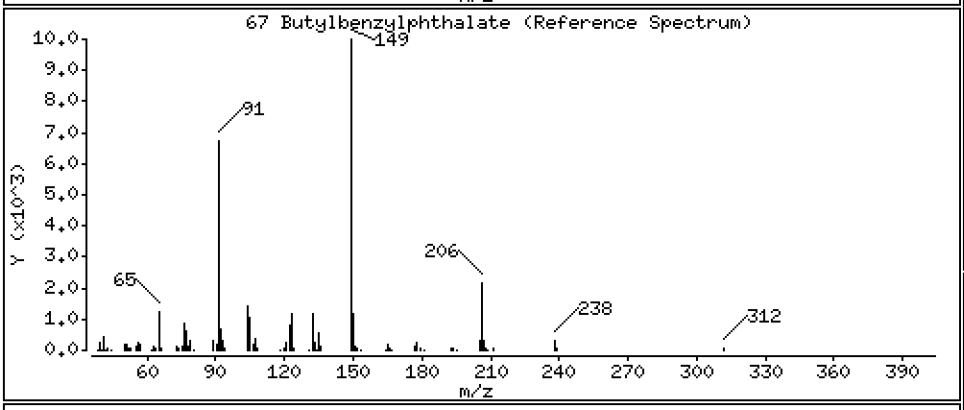
Column diameter: 0.25

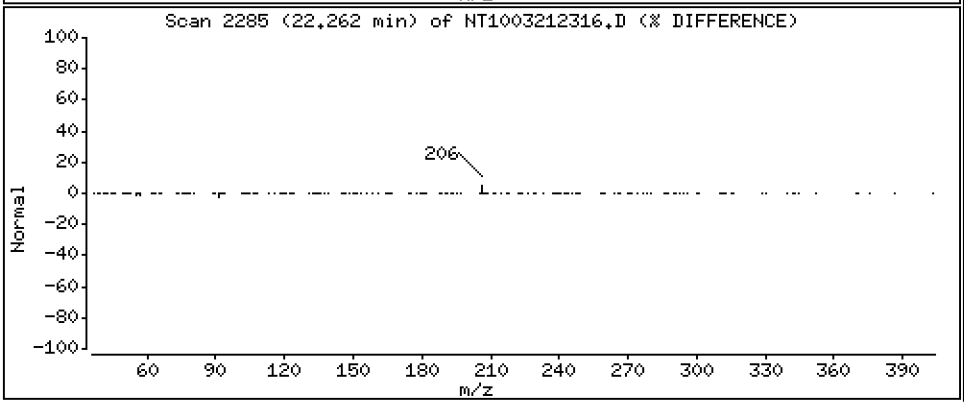
67 Butylbenzylphthalate

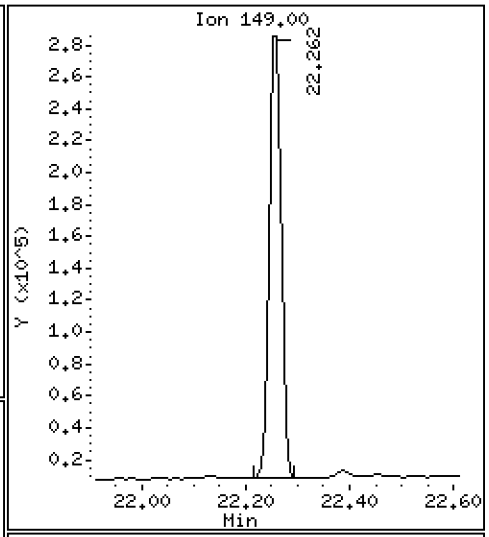
Concentration: 4.437 ug/mL

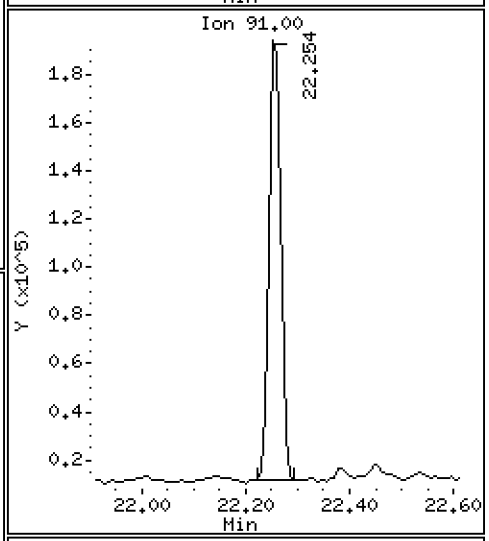


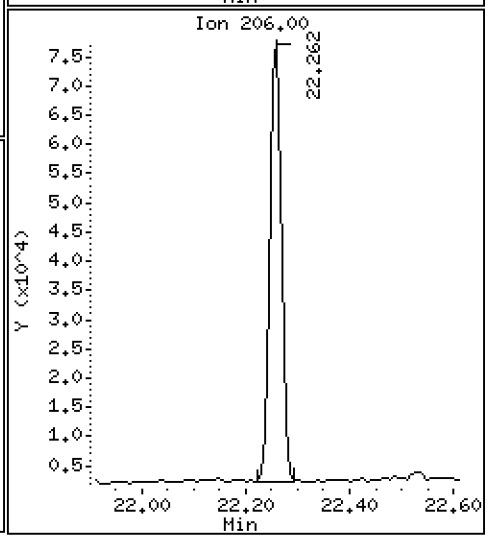












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Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD1

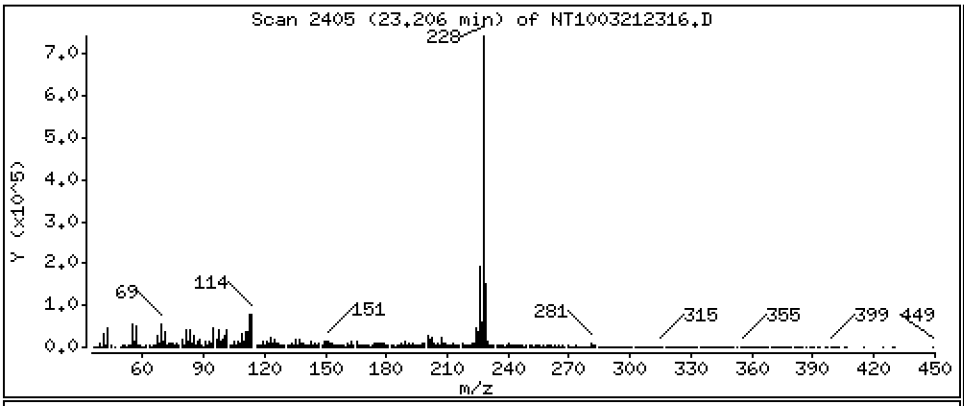
Operator: VTS

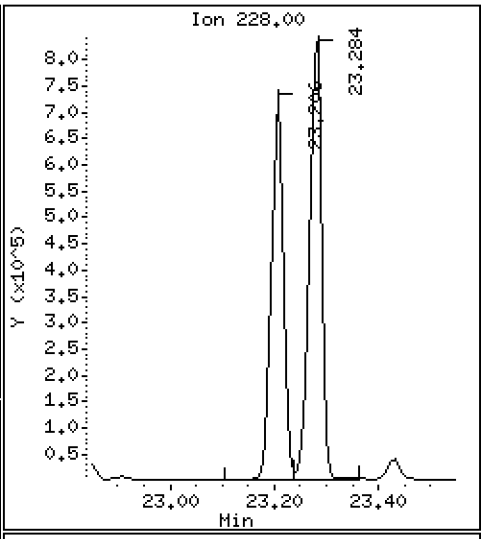
Column phase: ZB-5msi

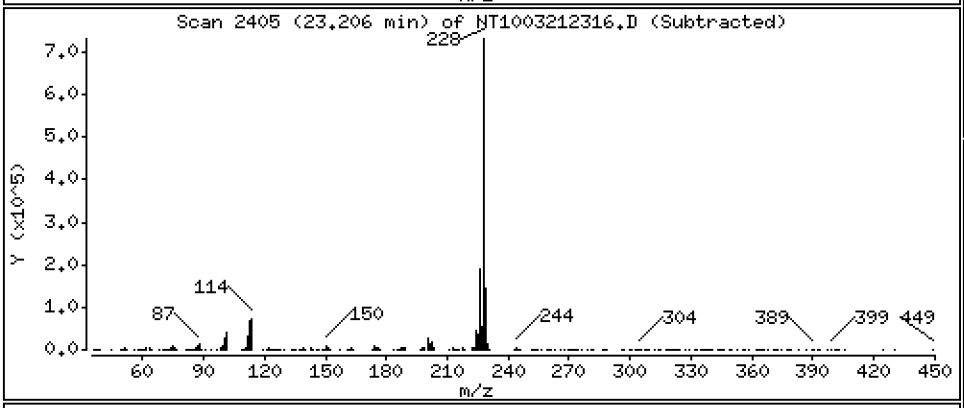
Column diameter: 0.25

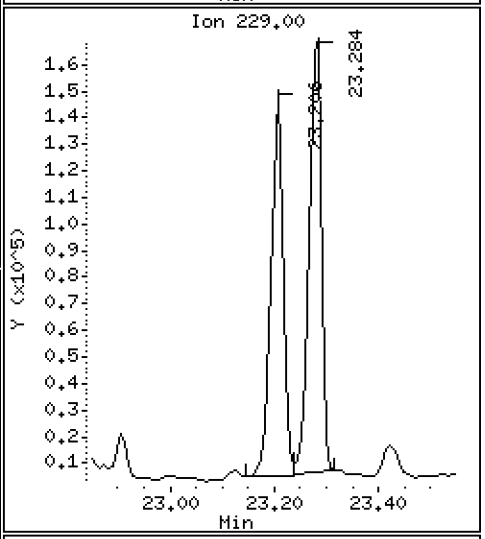
68 Benzo(a)anthracene

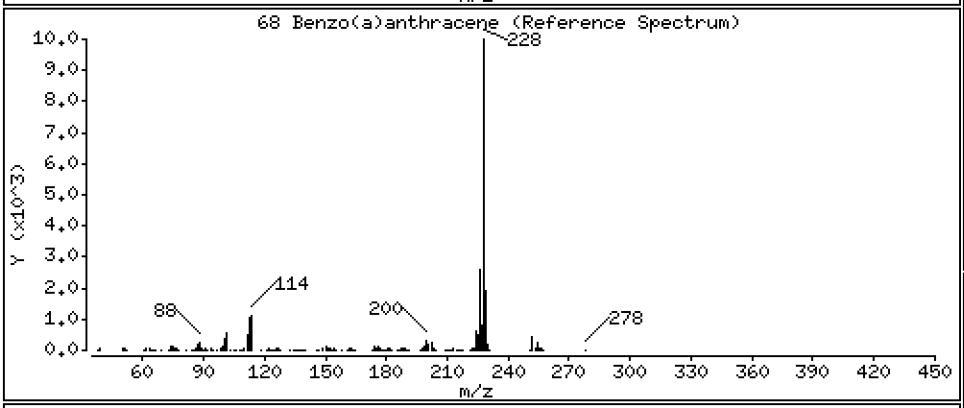
Concentration: 5.037 ug/mL

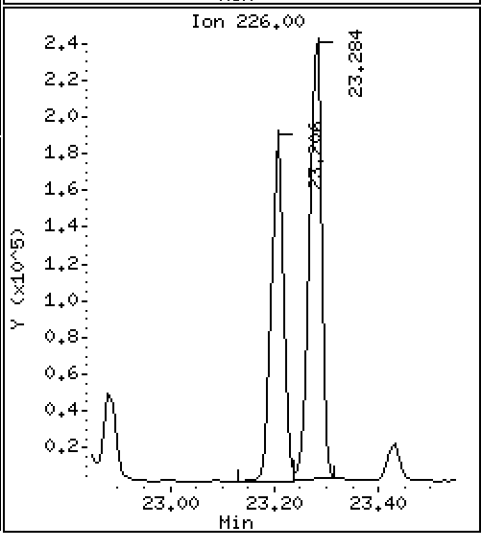


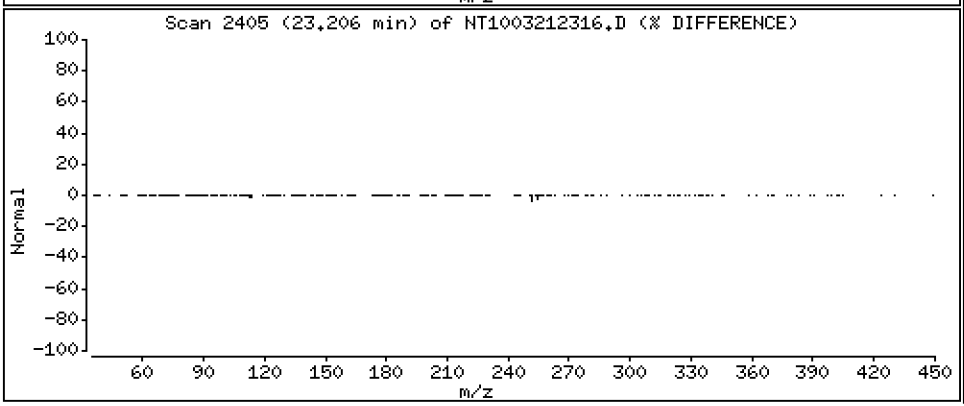












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212316.D

Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD1

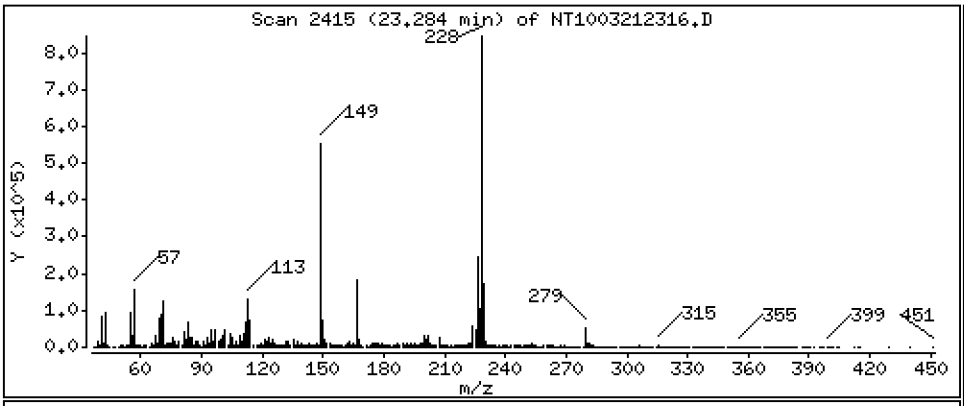
Operator: VTS

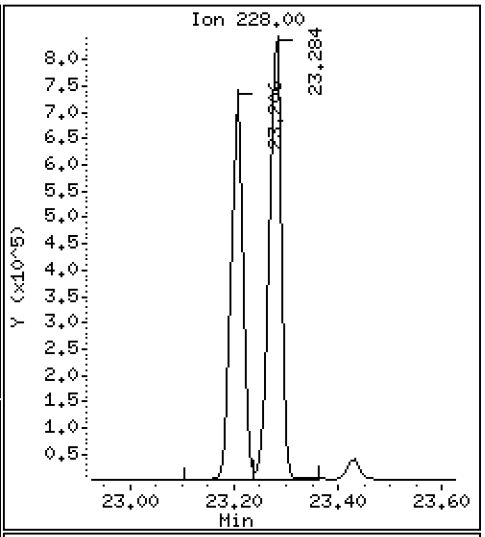
Column phase: ZB-5msi

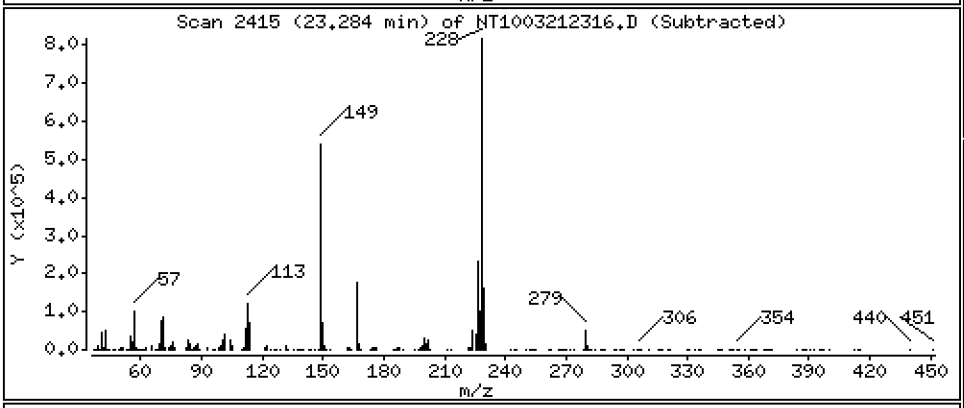
Column diameter: 0.25

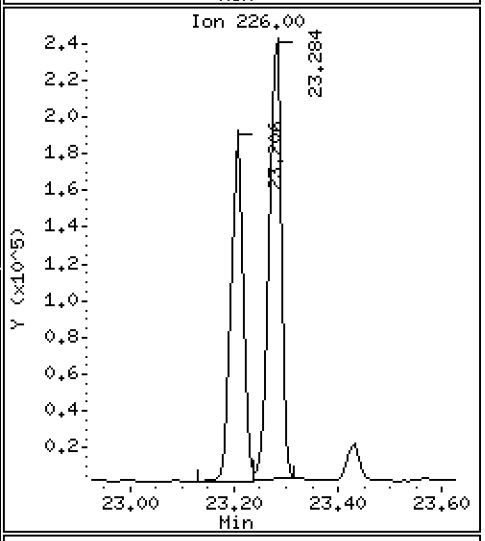
71 Chrysene

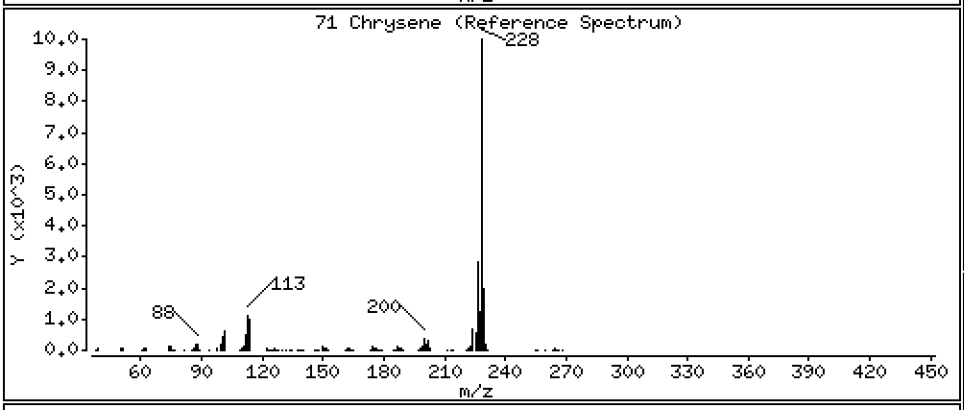
Concentration: 5.963 ug/mL

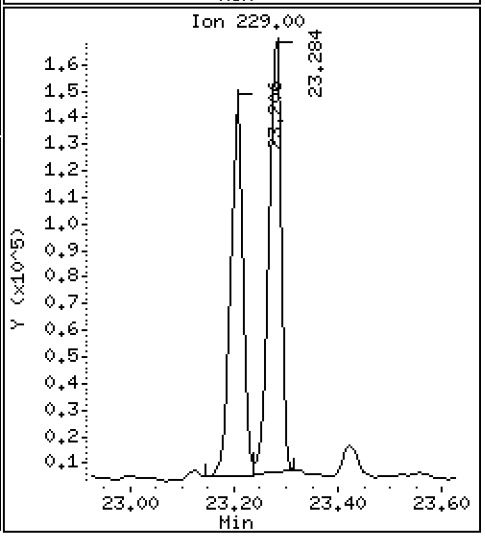


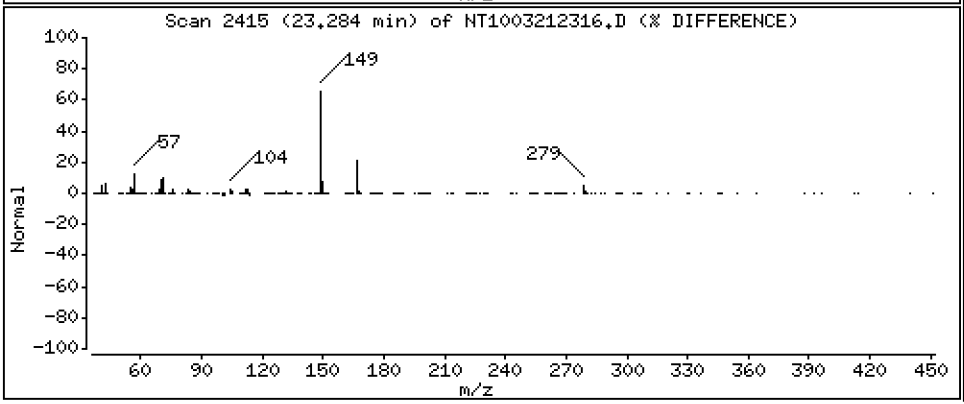












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Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD1

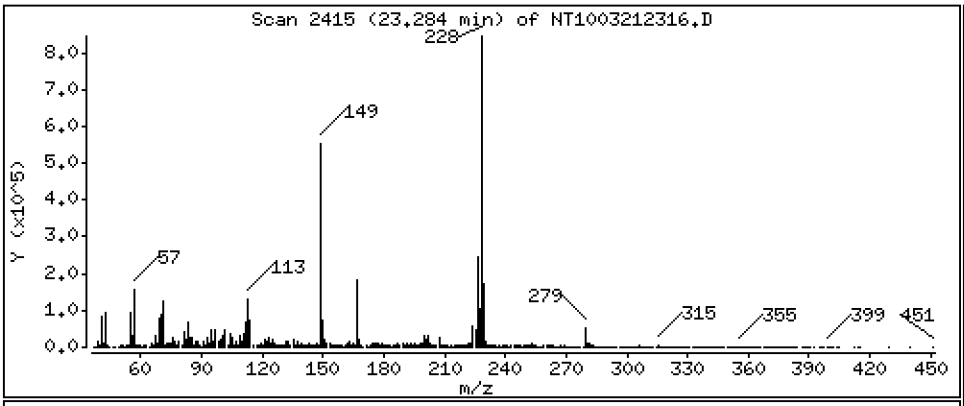
Operator: VTS

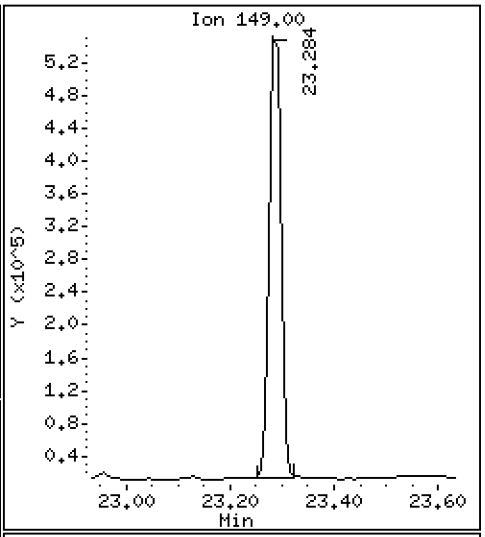
Column phase: ZB-5msi

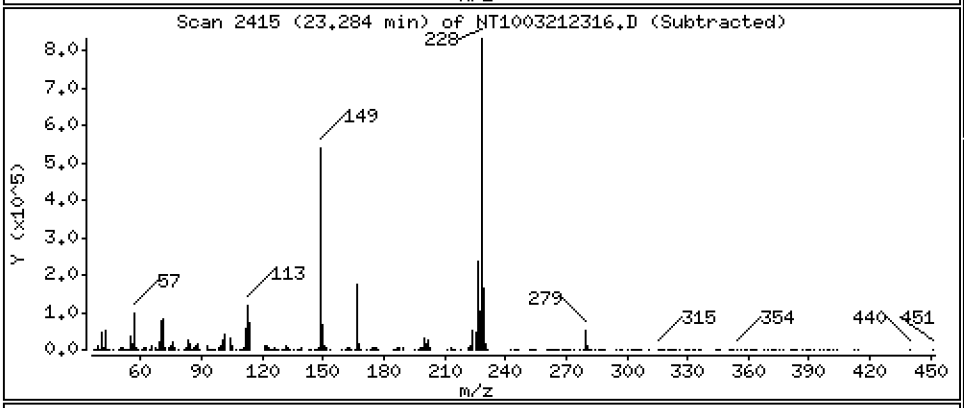
Column diameter: 0.25

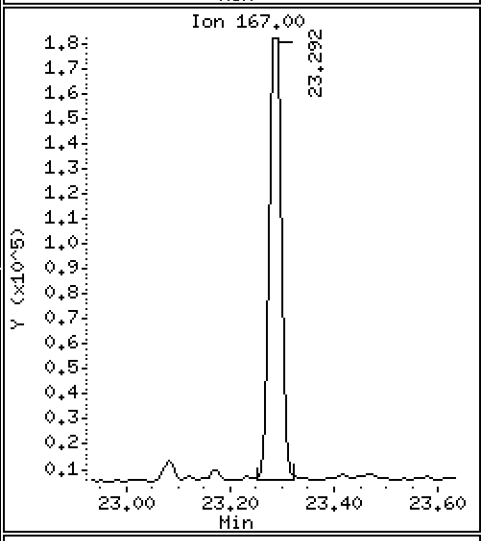
72 bis(2-Ethylhexyl)phthalate

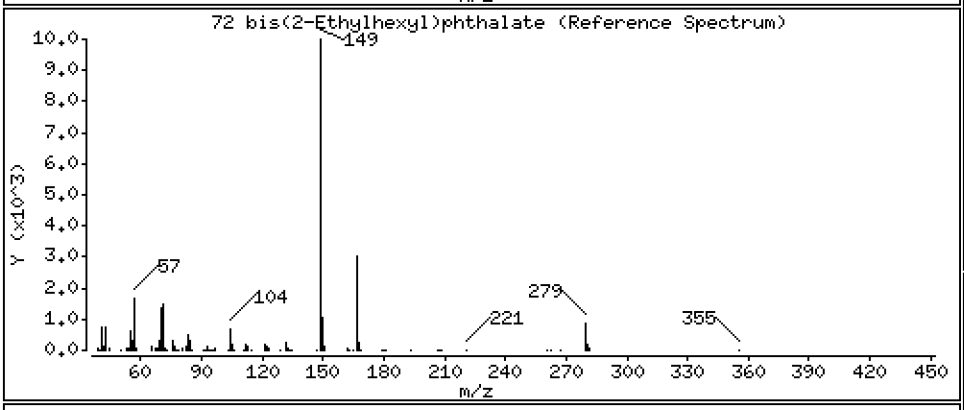
Concentration: 5.155 ug/mL

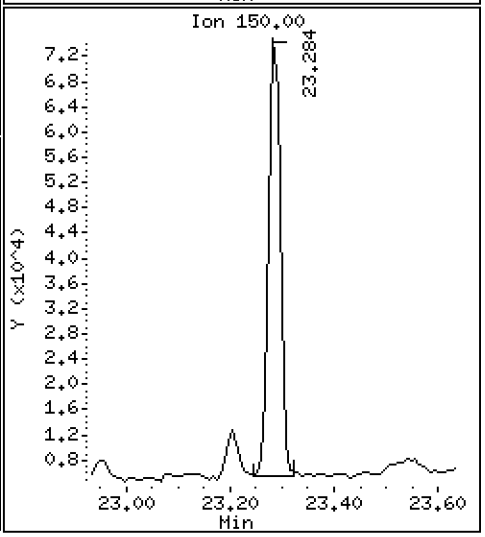


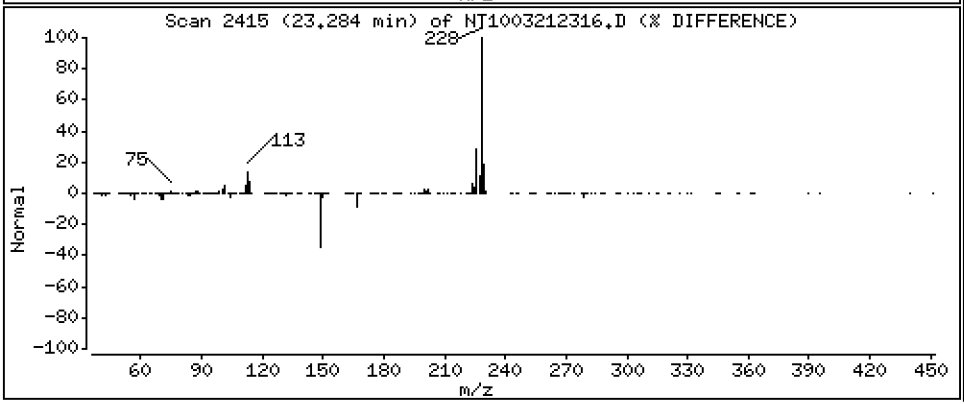












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Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD1

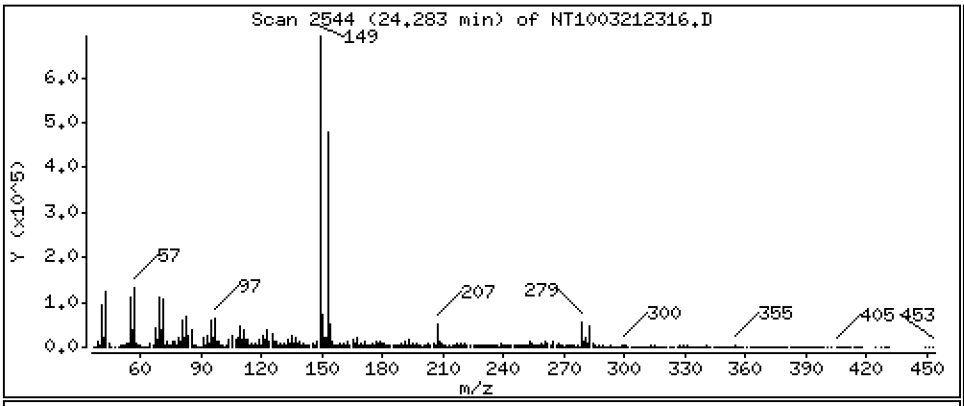
Operator: VTS

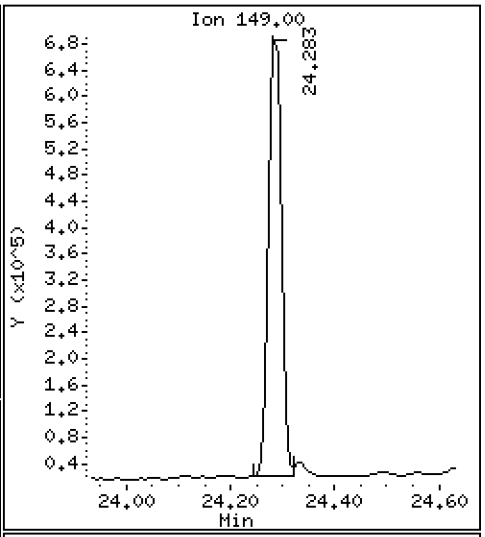
Column phase: ZB-5msi

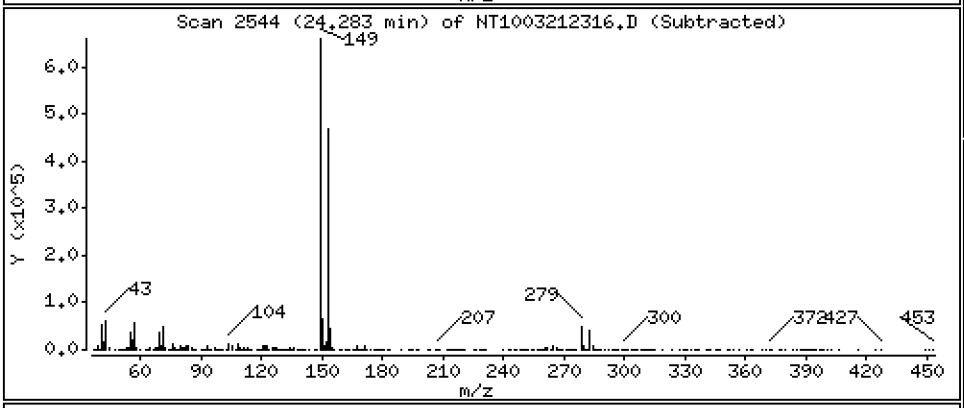
Column diameter: 0.25

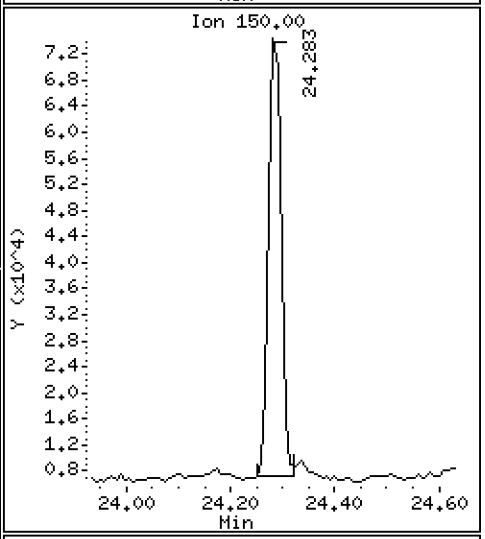
73 Di-n-octylphthalate

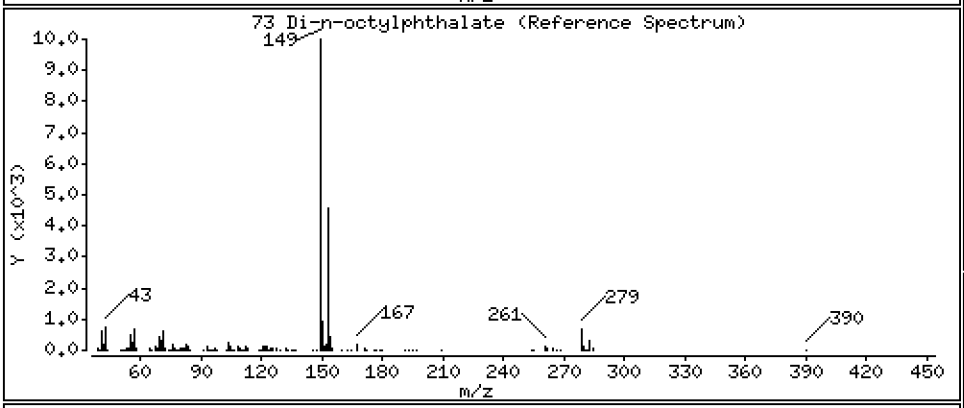
Concentration: 4.003 ug/mL

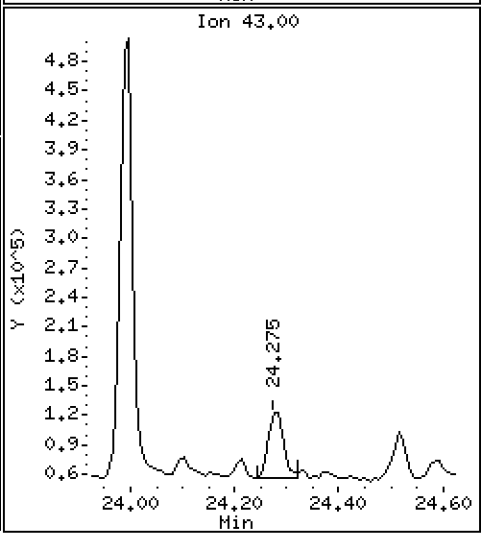


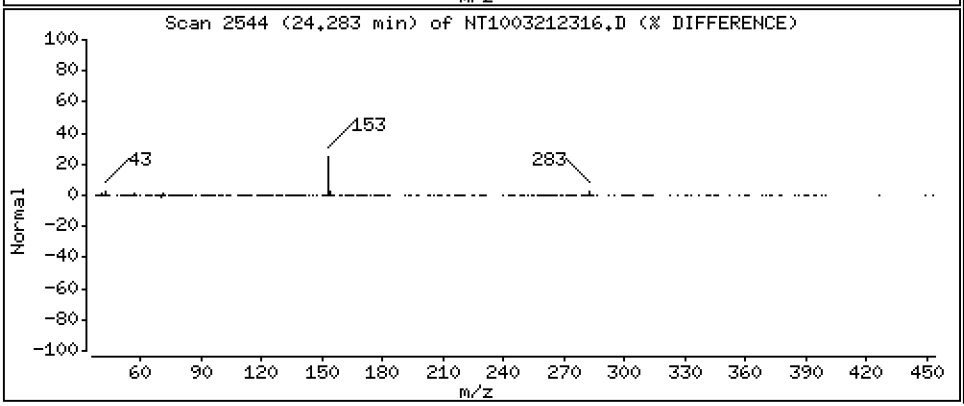












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Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD1

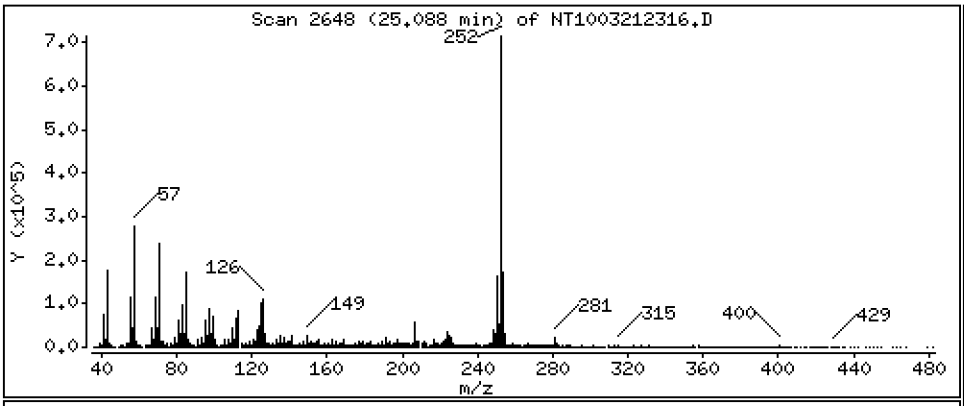
Operator: VTS

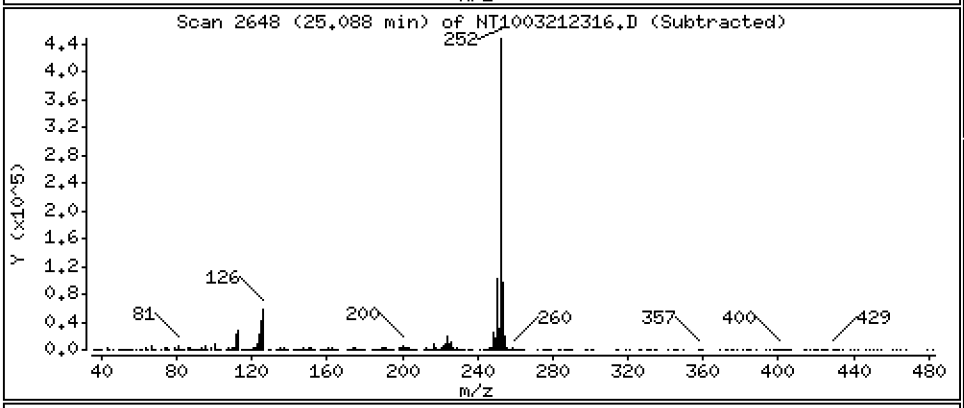
Column phase: ZB-5msi

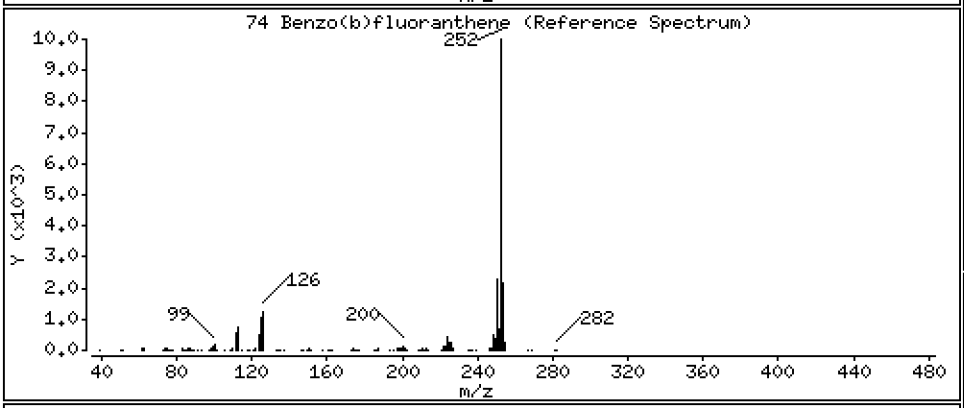
Column diameter: 0.25

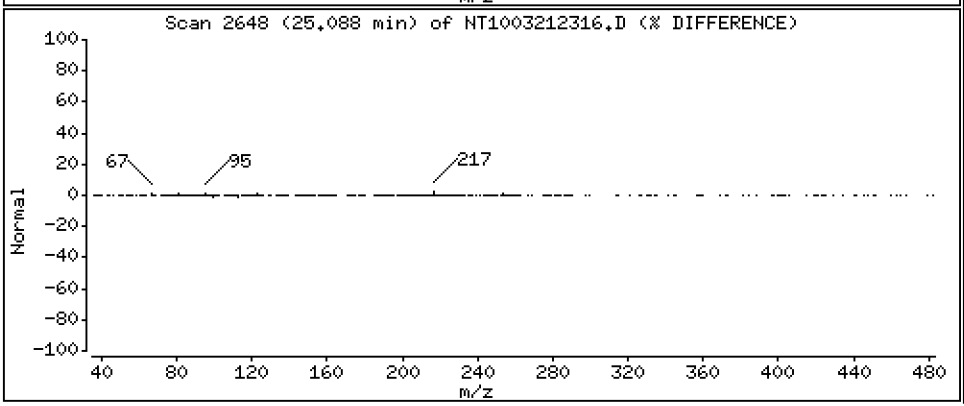
74 Benzo(b)fluoranthene

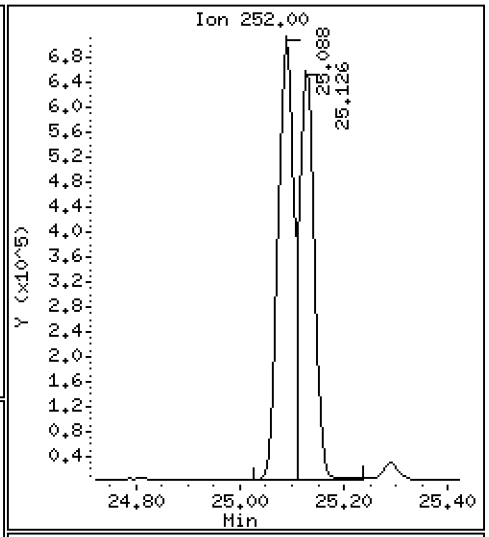
Concentration: 6.472 ug/mL

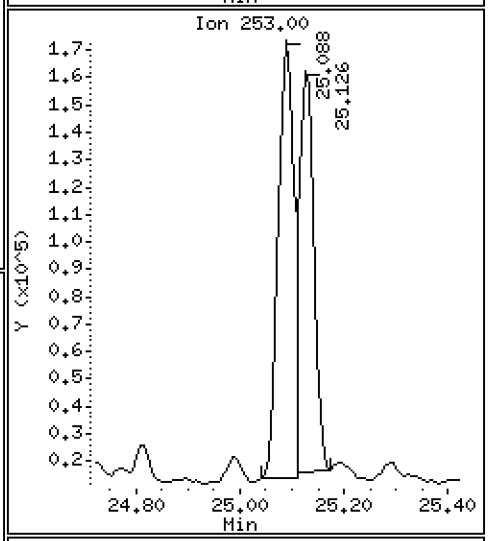


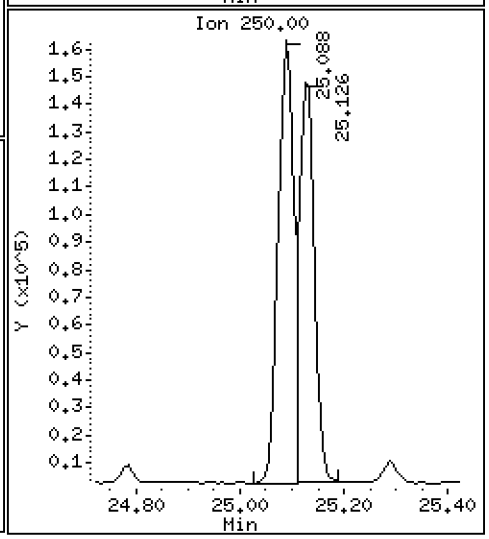












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Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD1

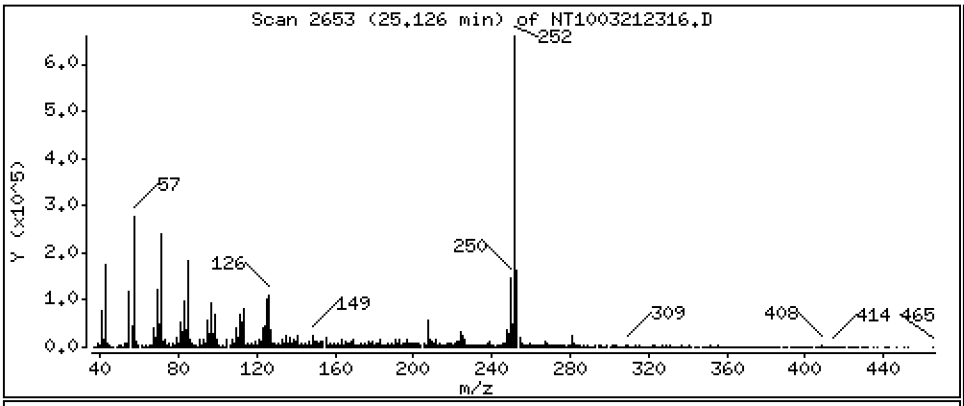
Operator: VTS

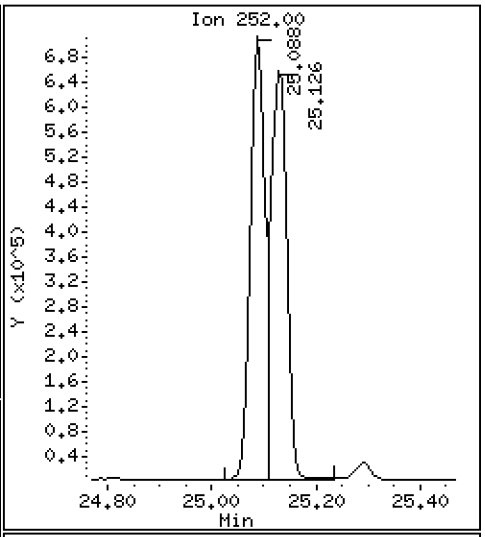
Column phase: ZB-5msi

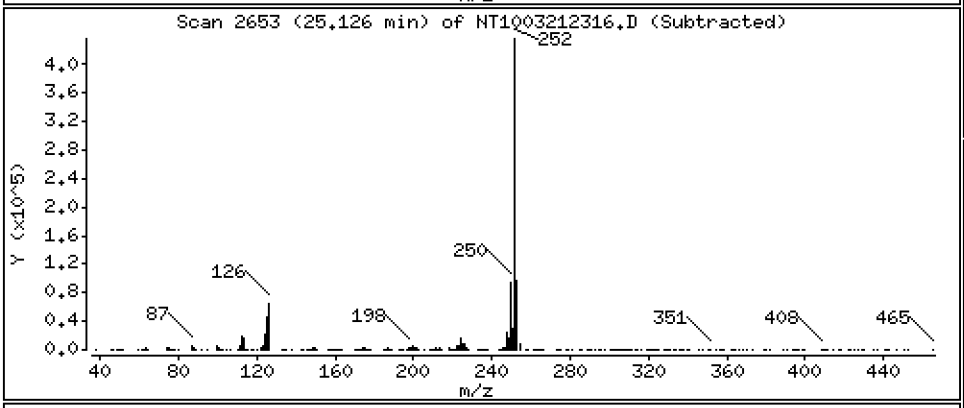
Column diameter: 0.25

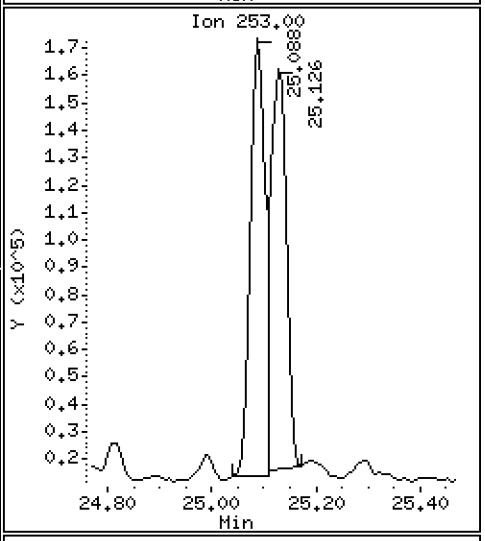
75 Benzo(k)fluoranthene

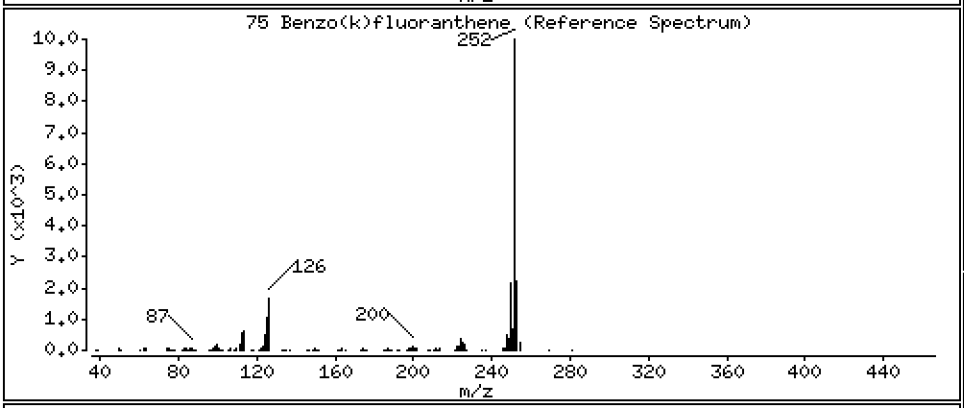
Concentration: 5.707 ug/mL

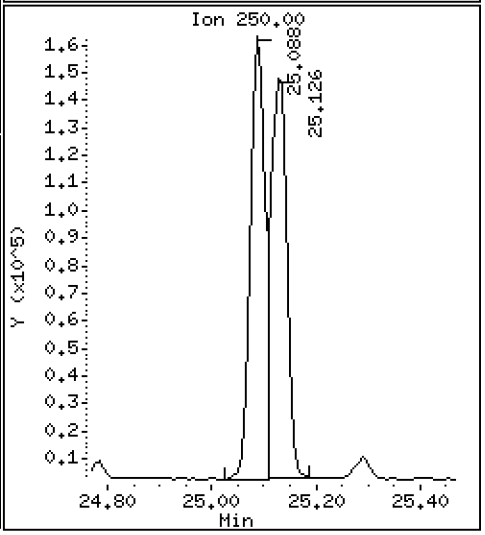


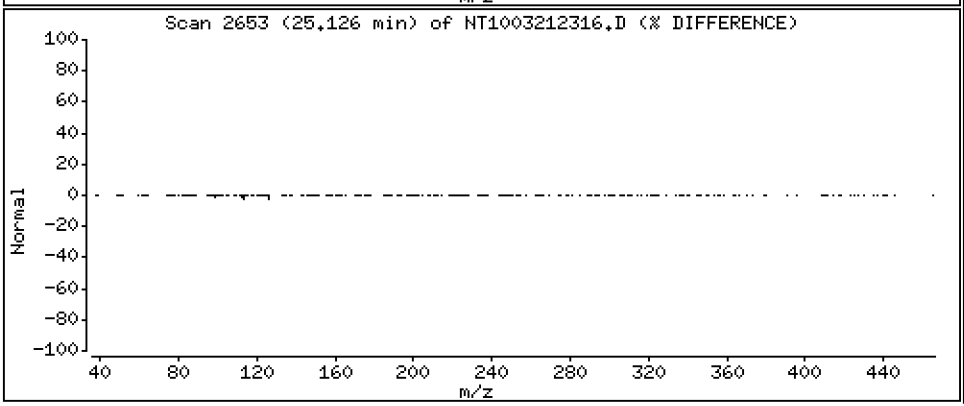












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Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD1

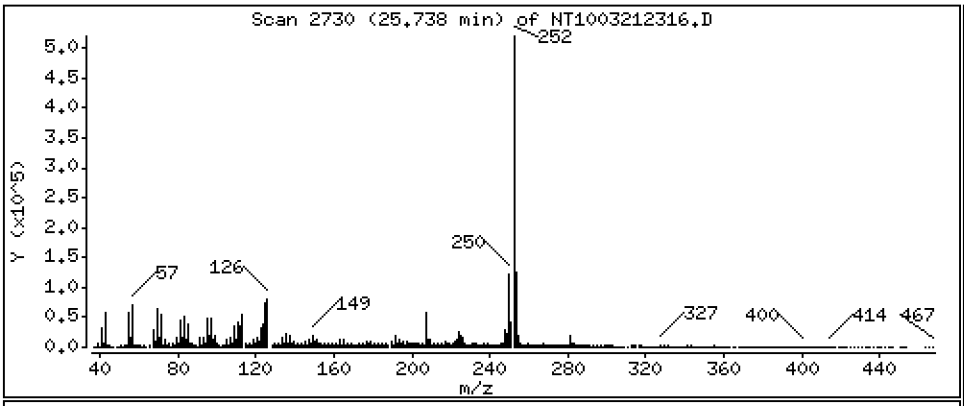
Operator: VTS

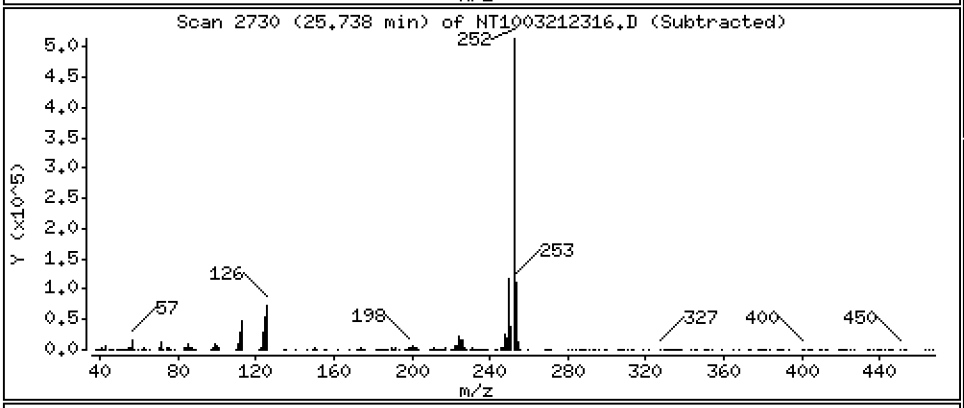
Column phase: ZB-5msi

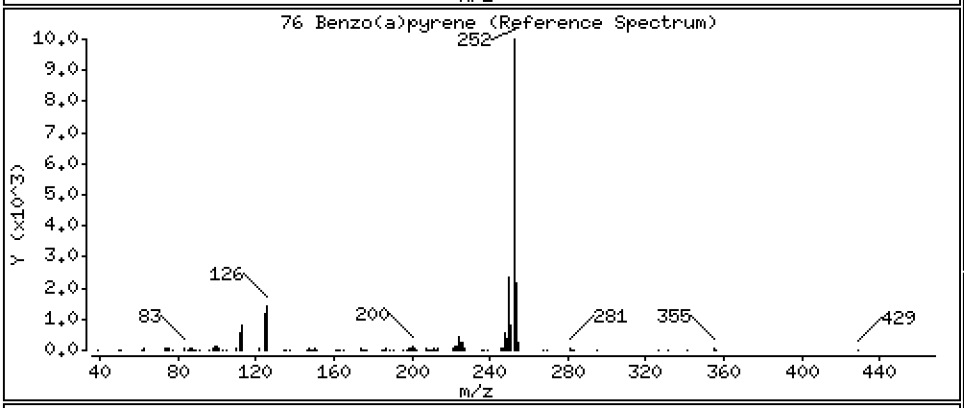
Column diameter: 0.25

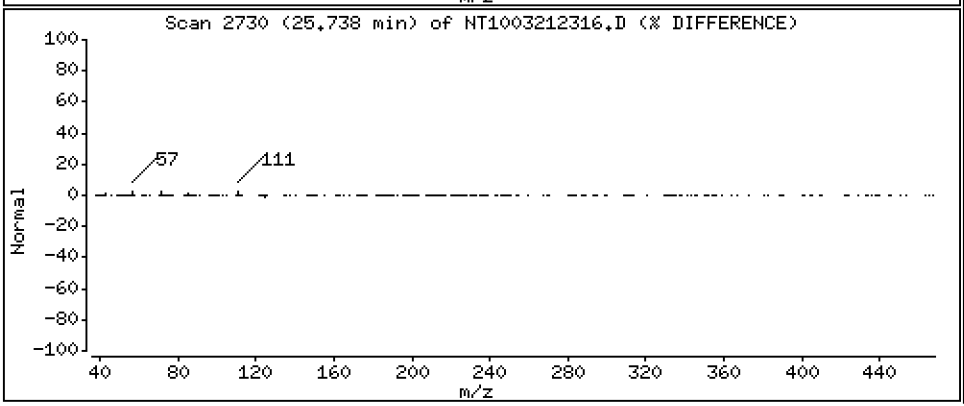
76 Benzo(a)pyrene

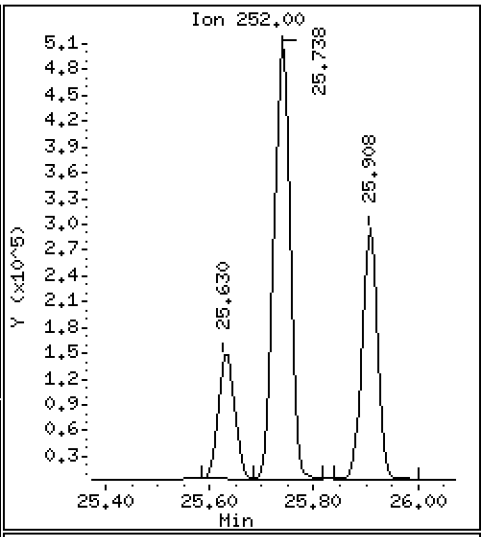
Concentration: 5.144 ug/mL

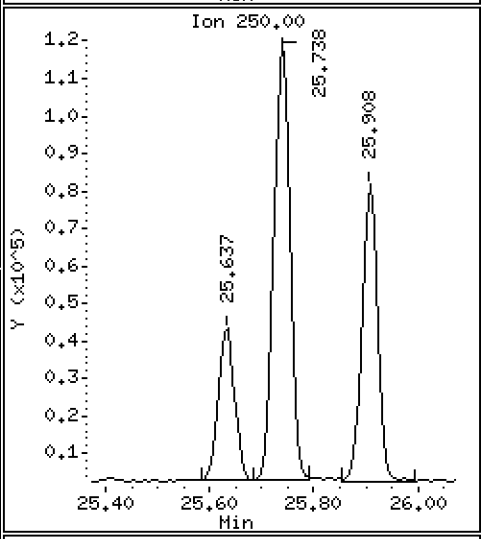


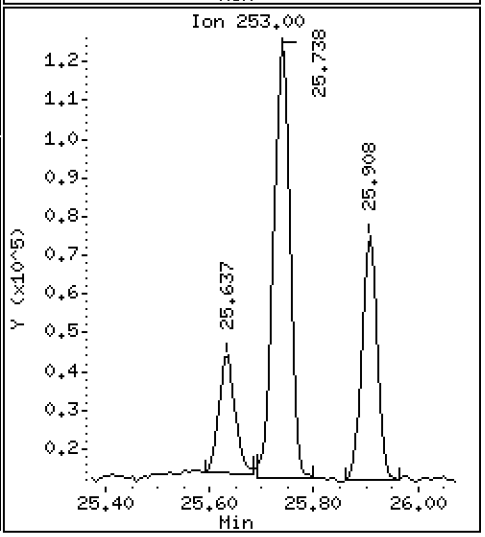












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Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD1

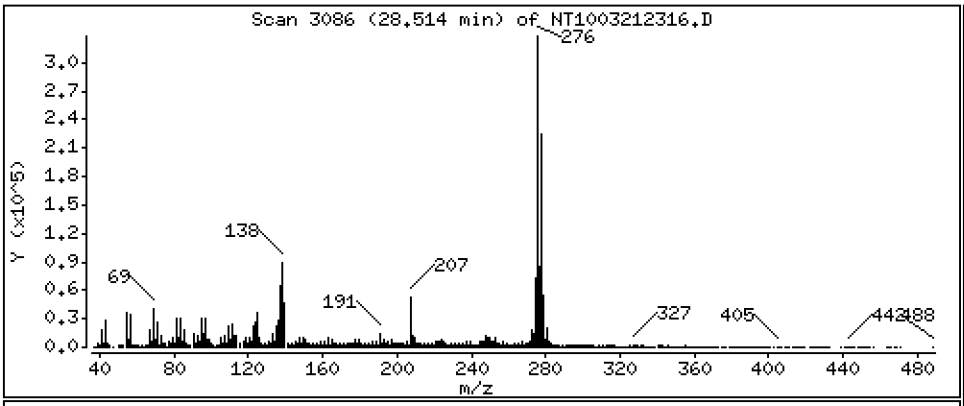
Operator: VTS

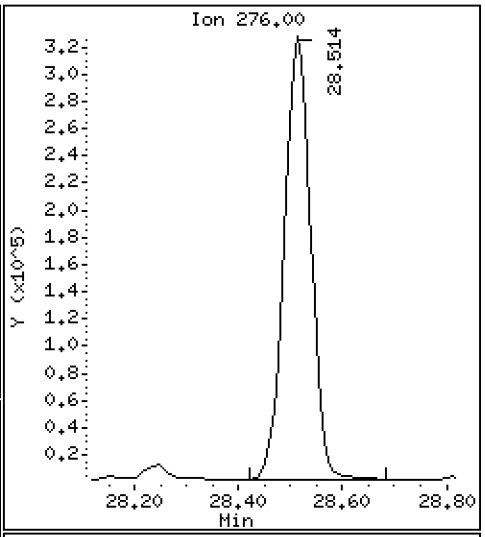
Column phase: ZB-5msi

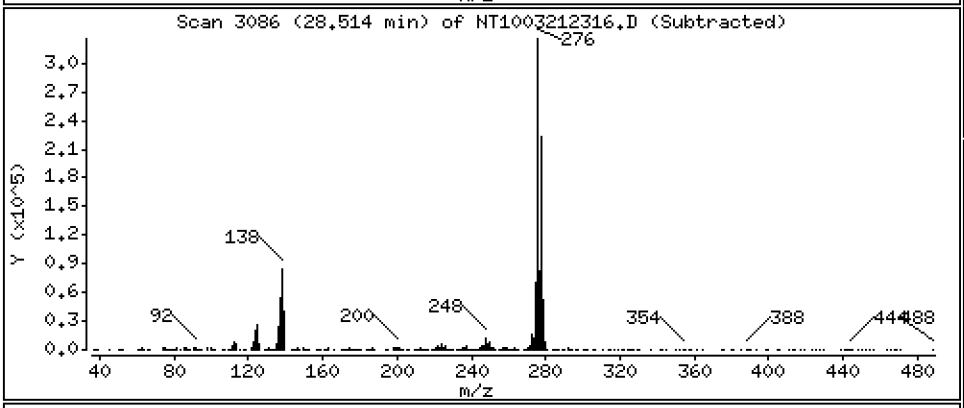
Column diameter: 0.25

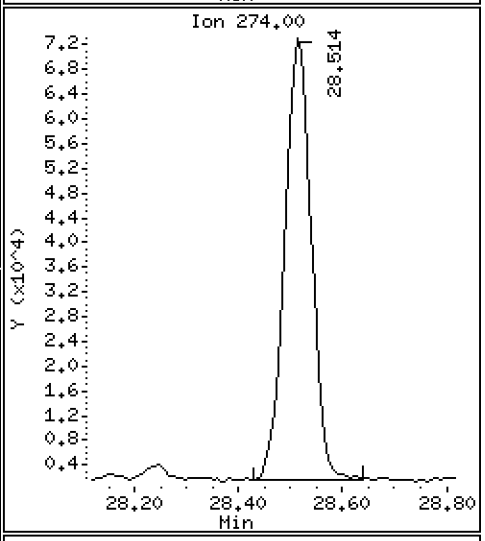
78 Indeno(1,2,3-cd)pyrene

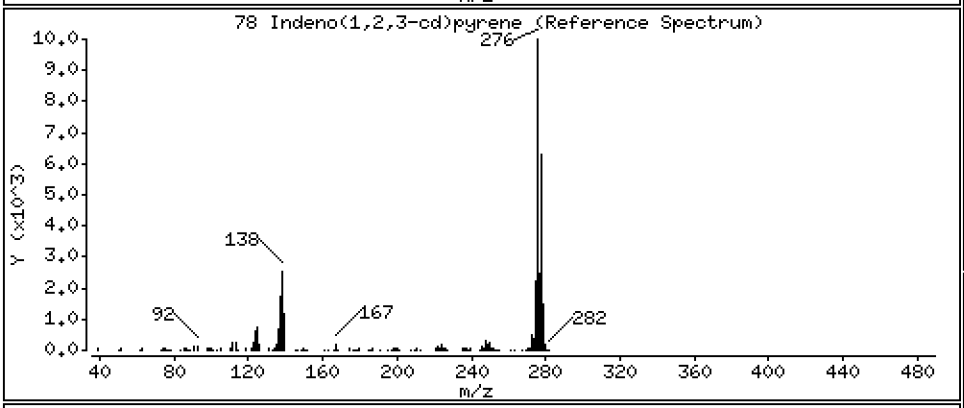
Concentration: 4.355 ug/mL

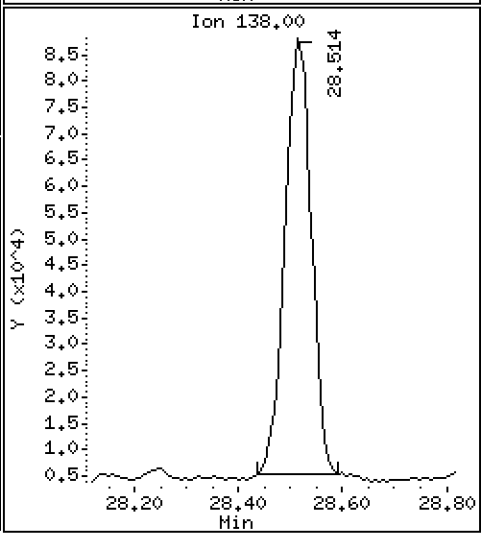


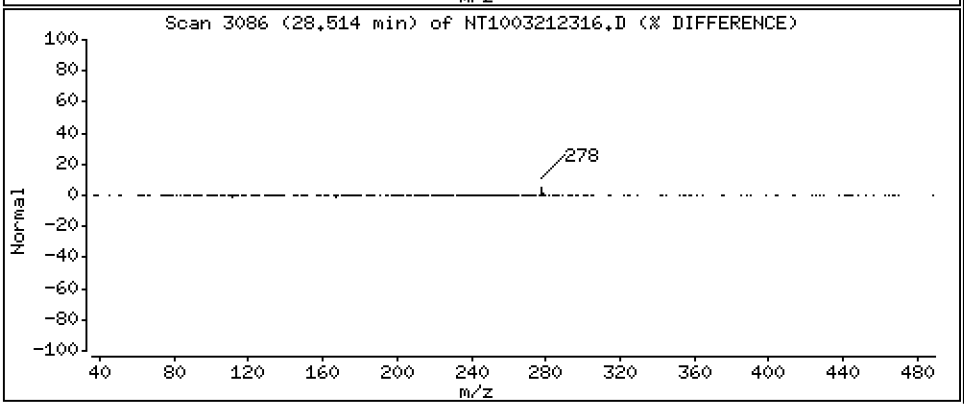












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212316.D

Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD1

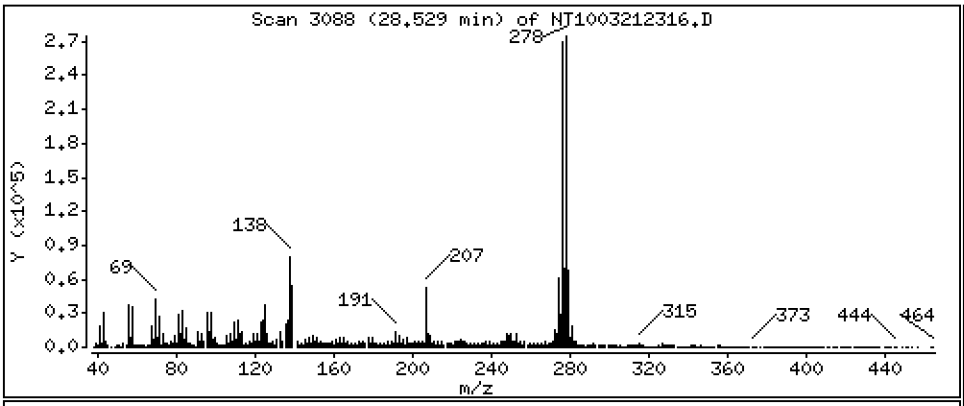
Operator: VTS

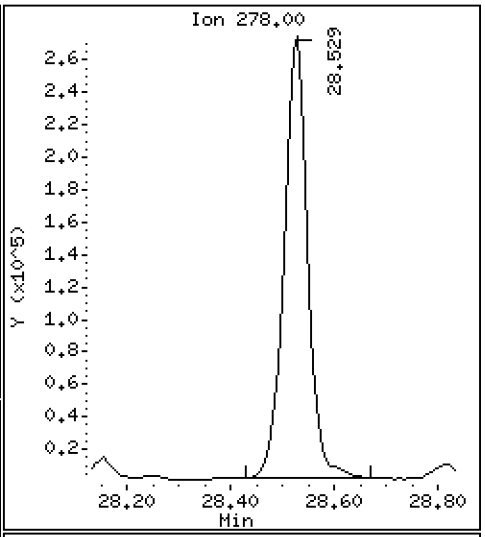
Column phase: ZB-5msi

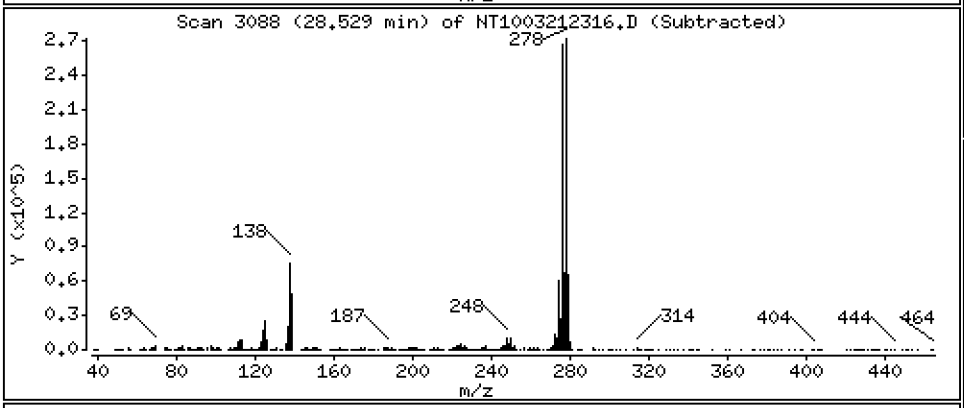
Column diameter: 0.25

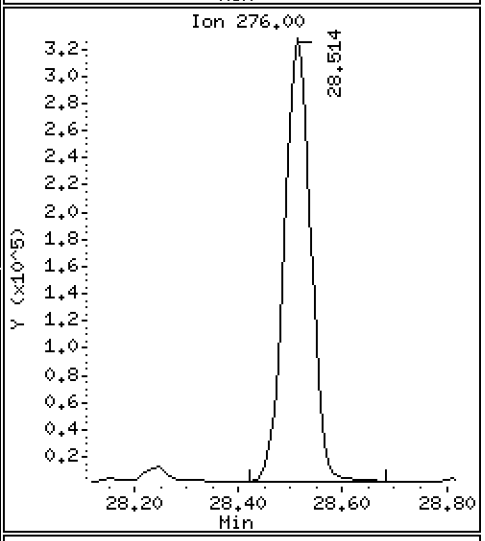
79 Dibenzo(a,h)anthracene

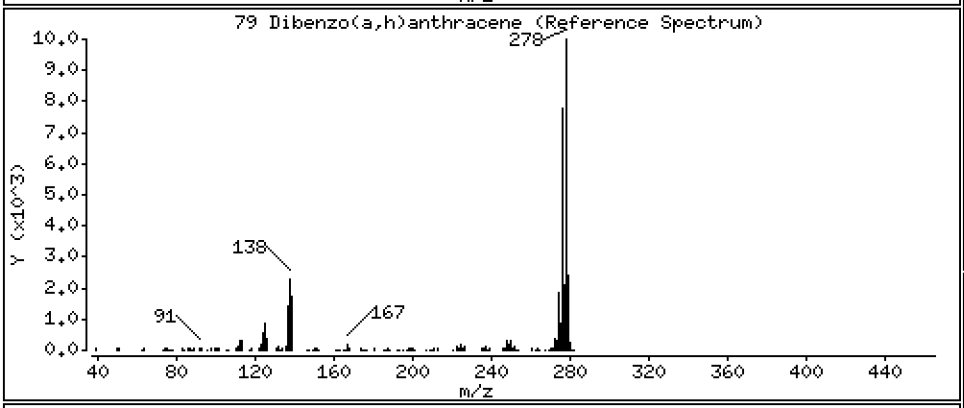
Concentration: 3.923 ug/mL

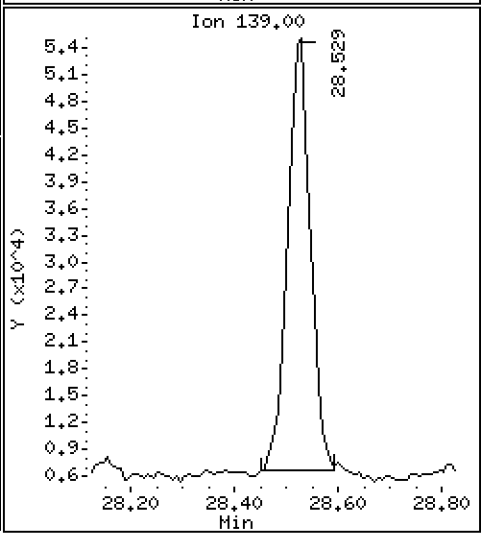


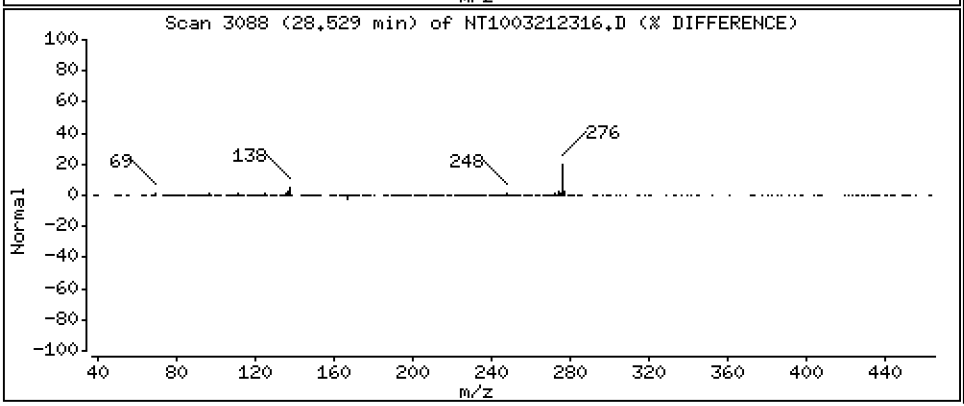












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Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD1

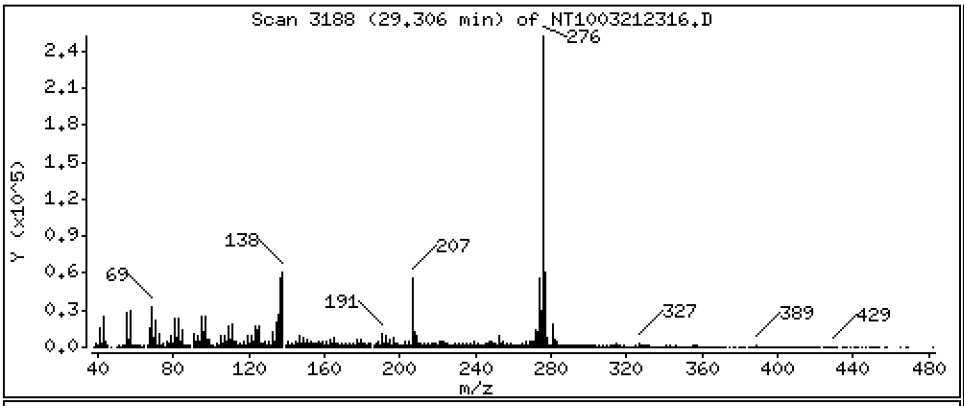
Operator: VTS

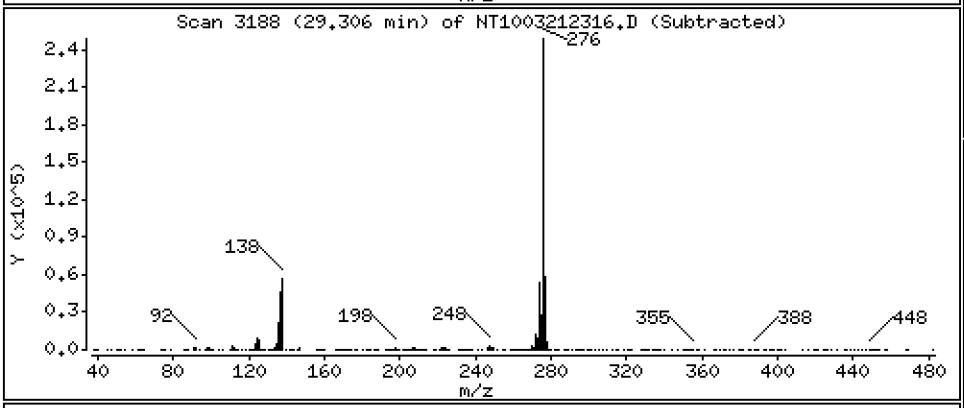
Column phase: ZB-5msi

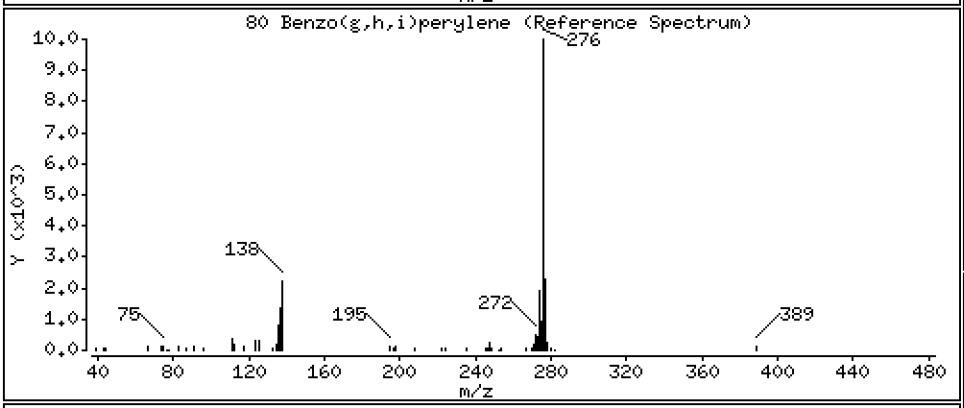
Column diameter: 0.25

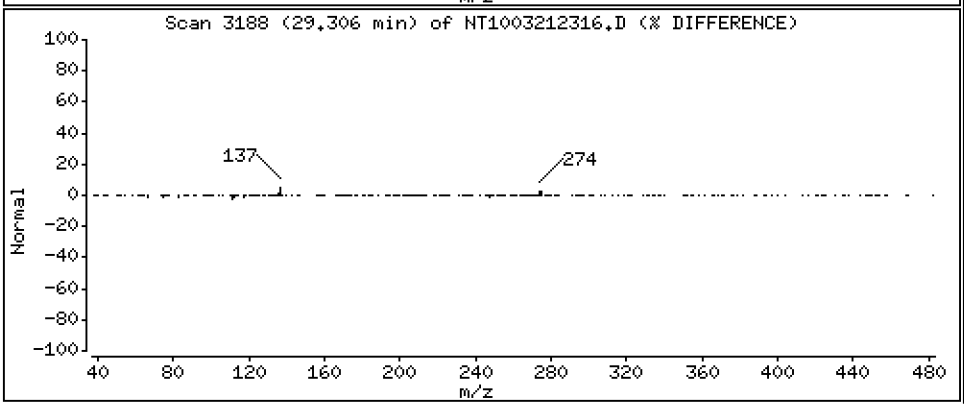
80 Benzo(g,h,i)perylene

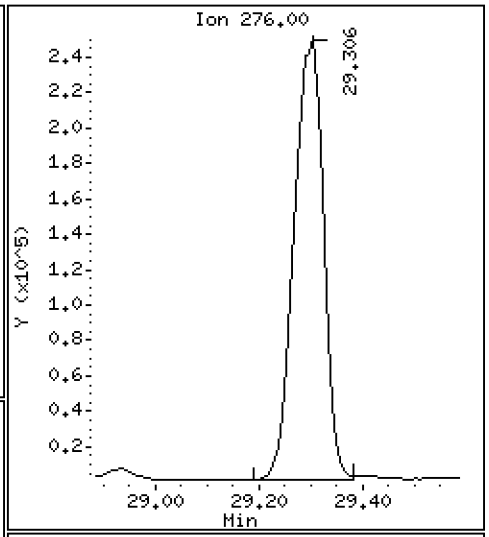
Concentration: 4.207 ug/mL

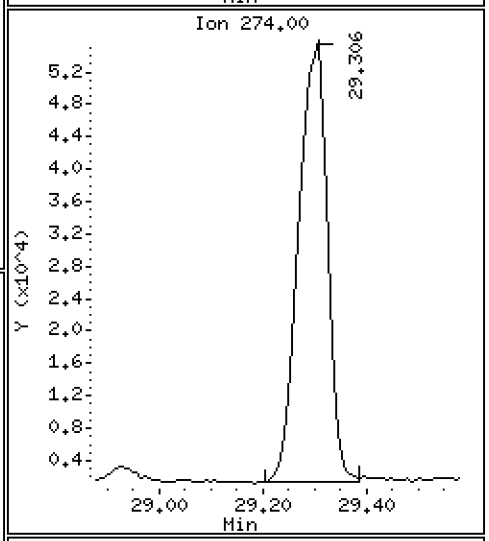


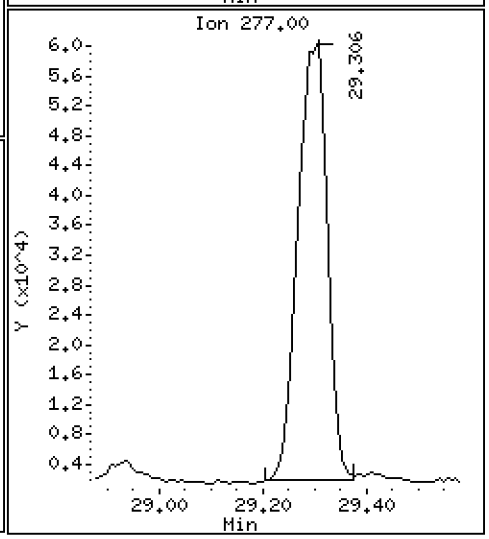












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Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD1

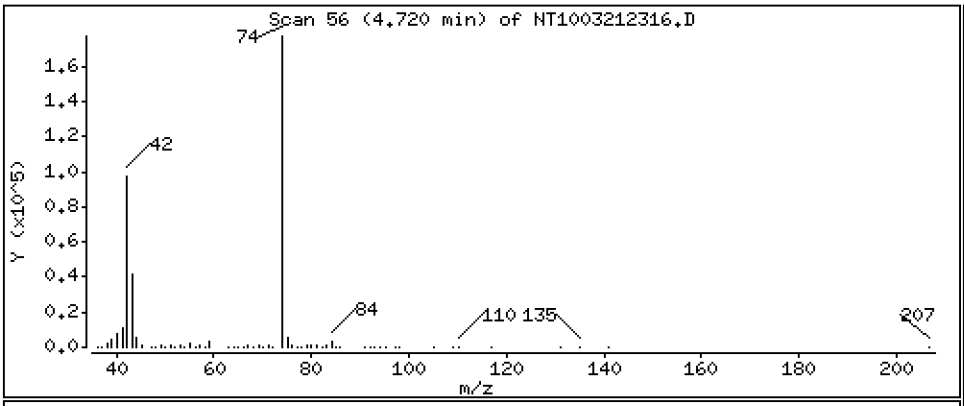
Operator: VTS

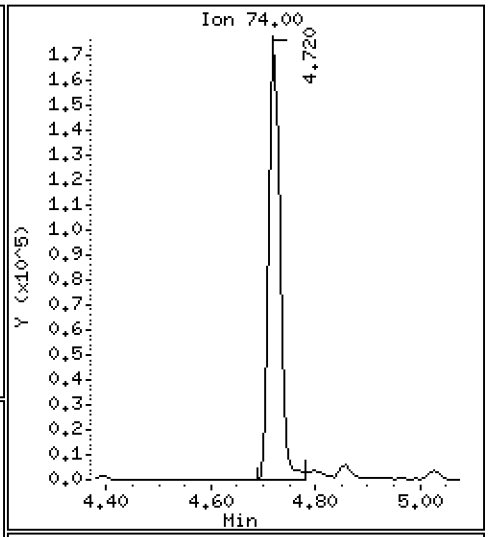
Column phase: ZB-5msi

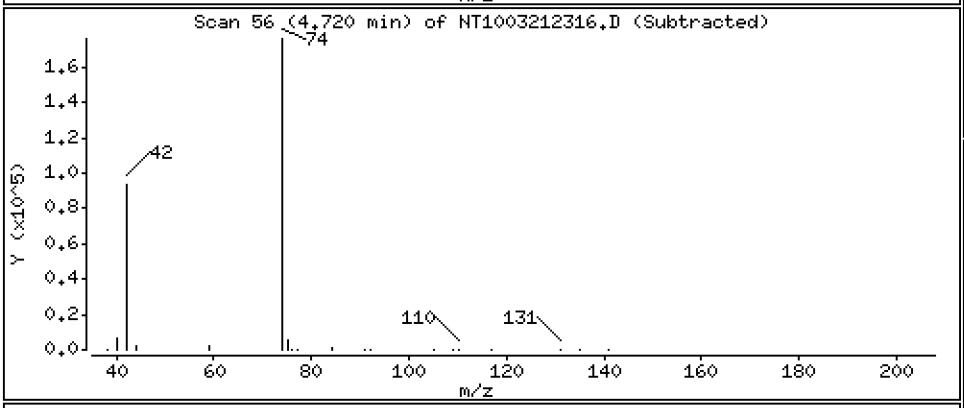
Column diameter: 0.25

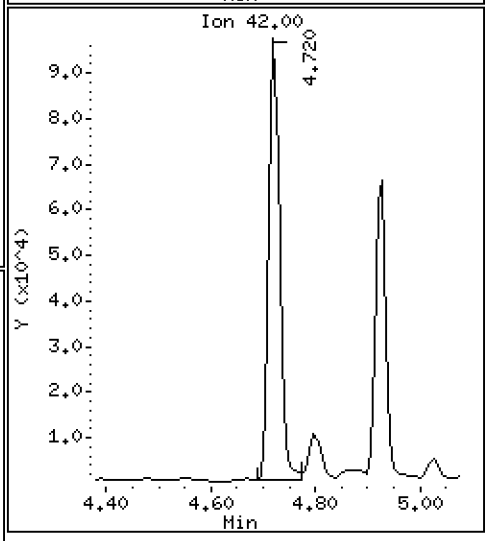
90 N-Nitrosodimethylamine

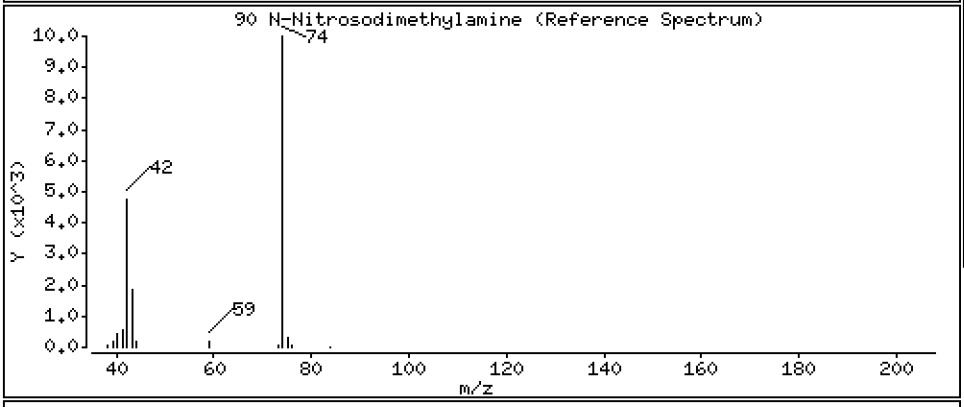
Concentration: 7.052 ug/mL

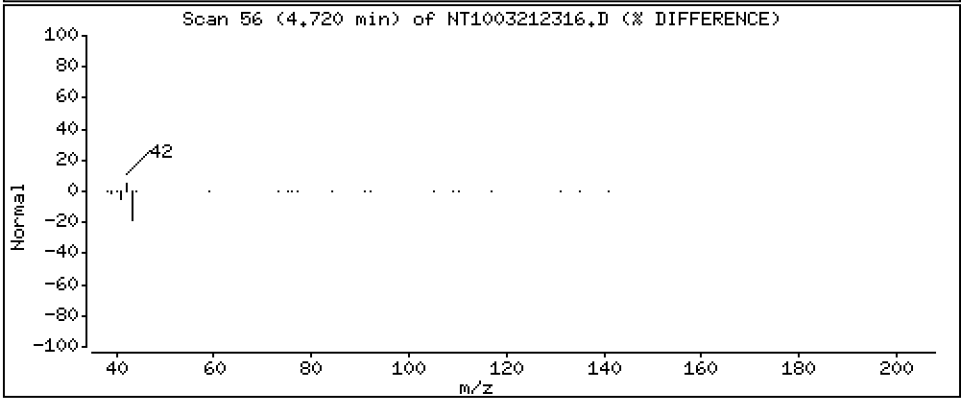












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212316.D

Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD1

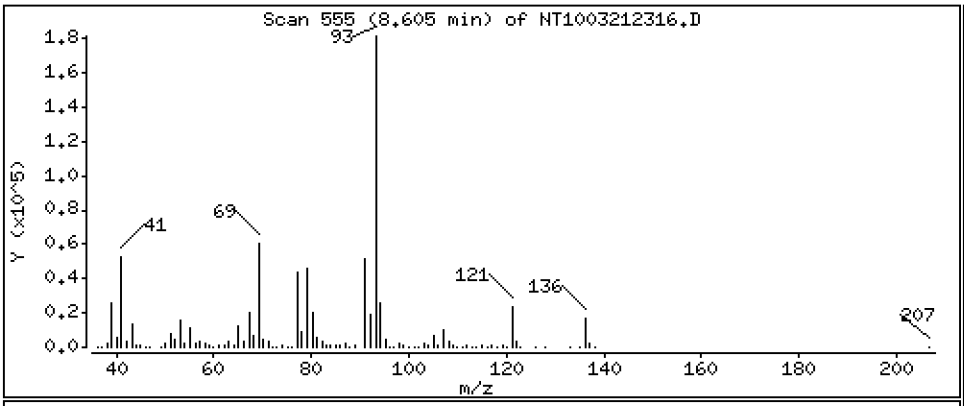
Operator: VTS

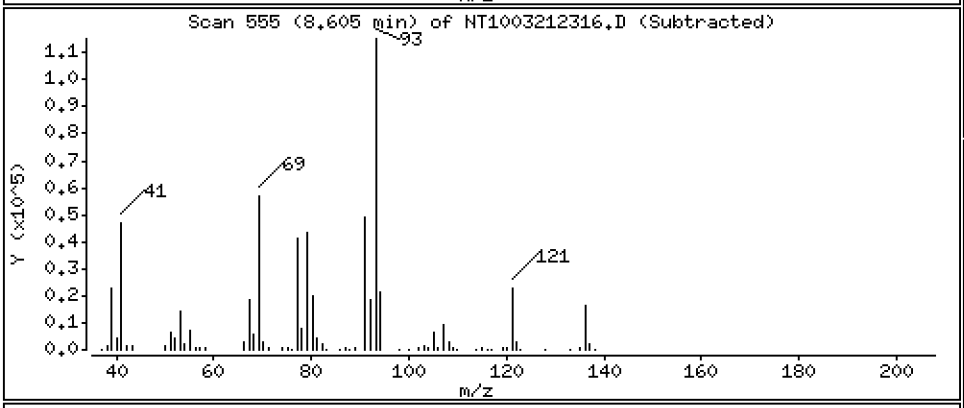
Column phase: ZB-5msi

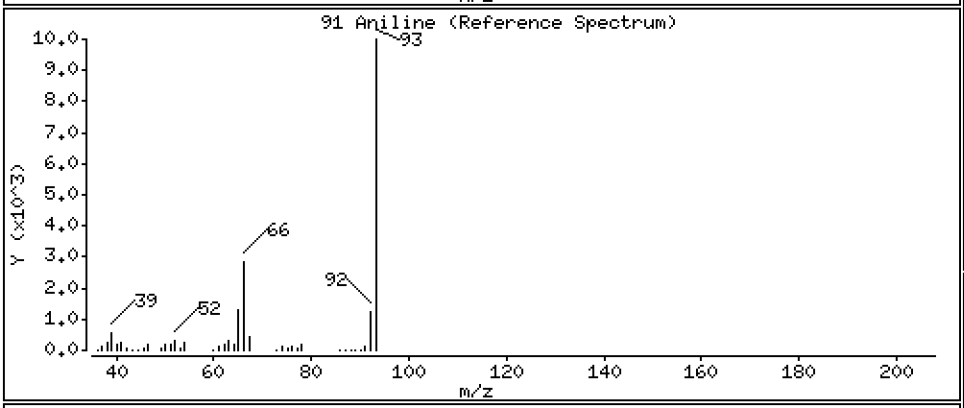
Column diameter: 0.25

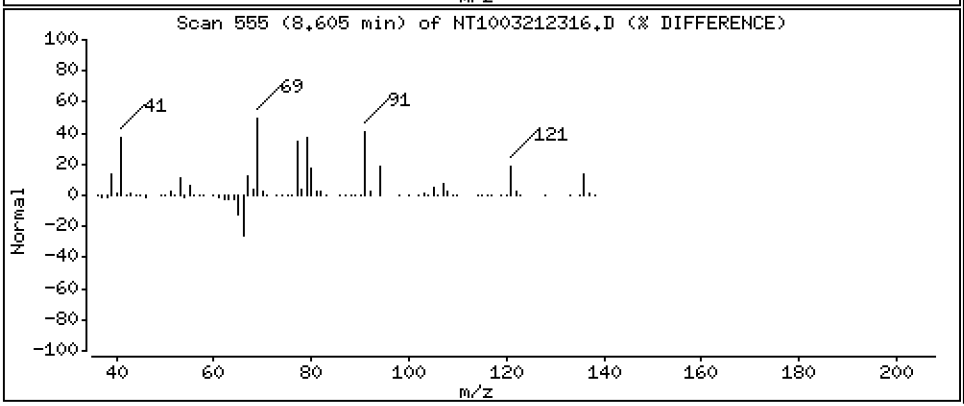
91 Aniline

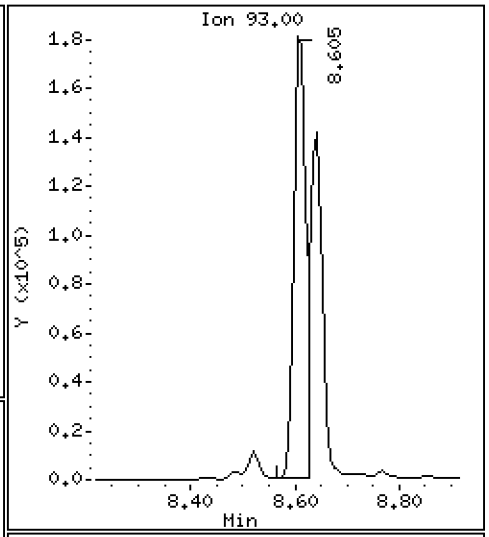
Concentration: 4.149 ug/mL

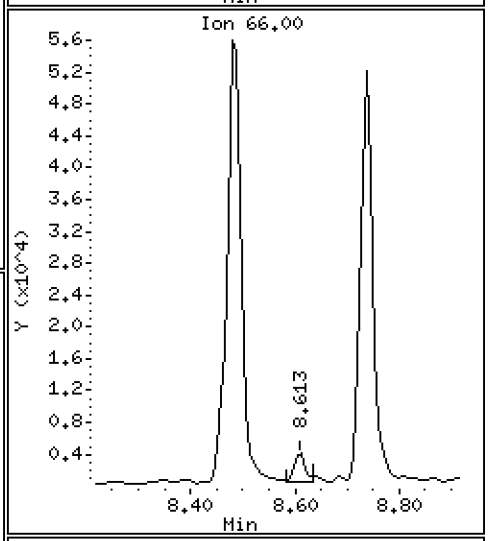


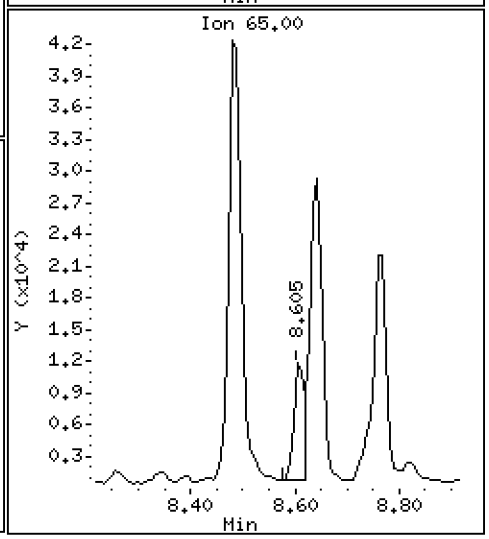












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Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD1

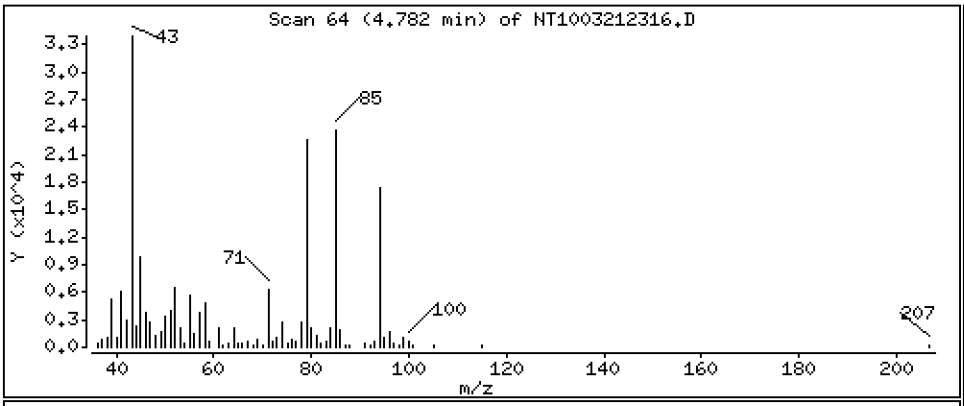
Operator: VTS

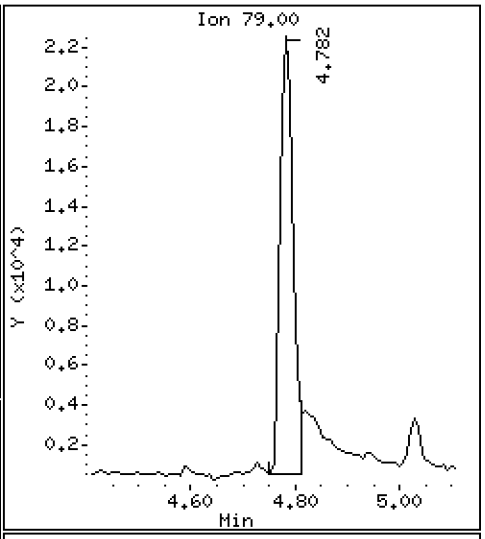
Column phase: ZB-5msi

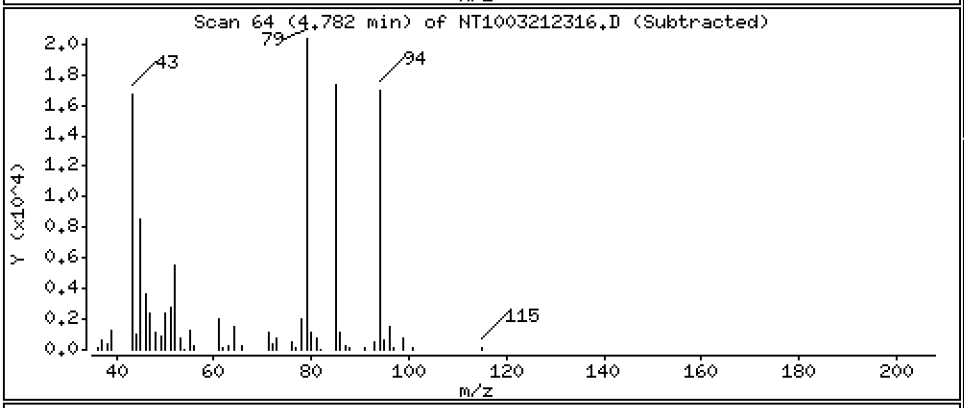
Column diameter: 0.25

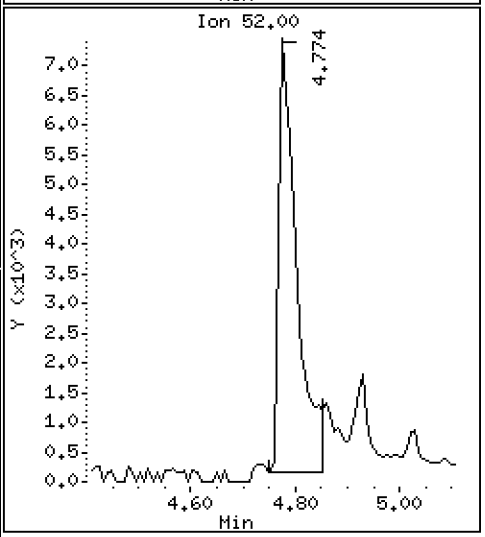
103 Pyridine

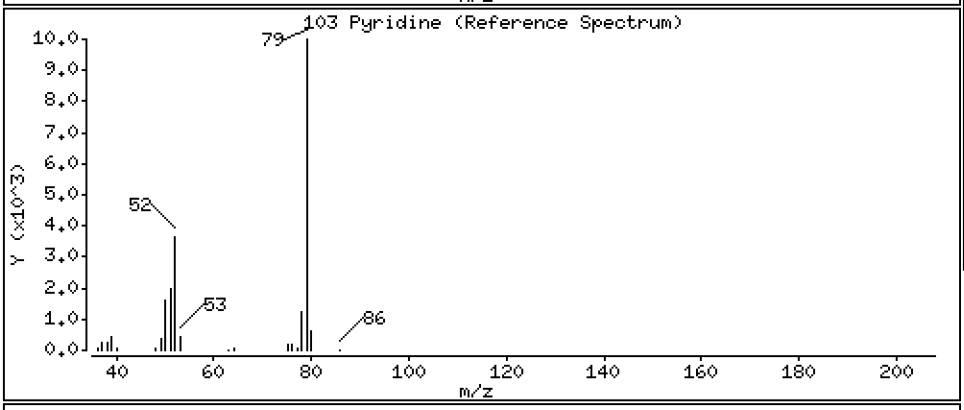
Concentration: 0.7567 ug/mL

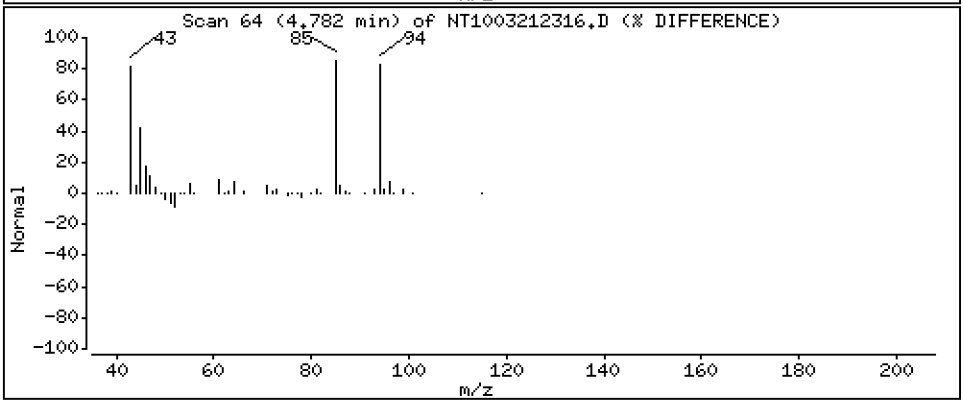












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Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD1

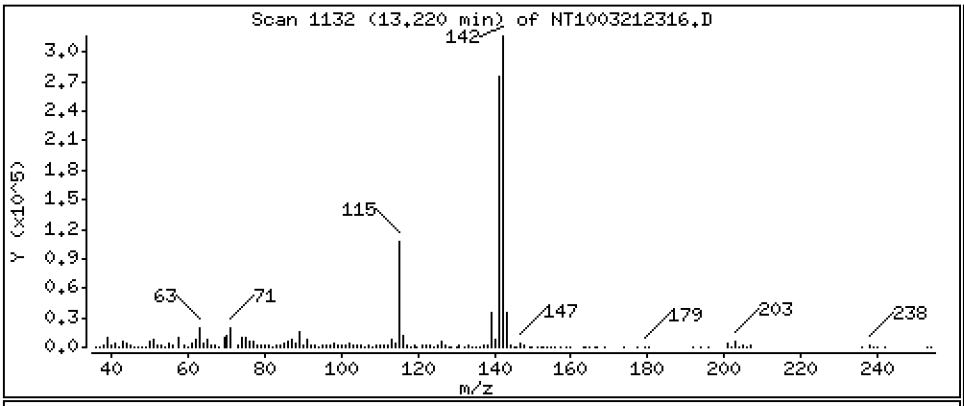
Operator: VTS

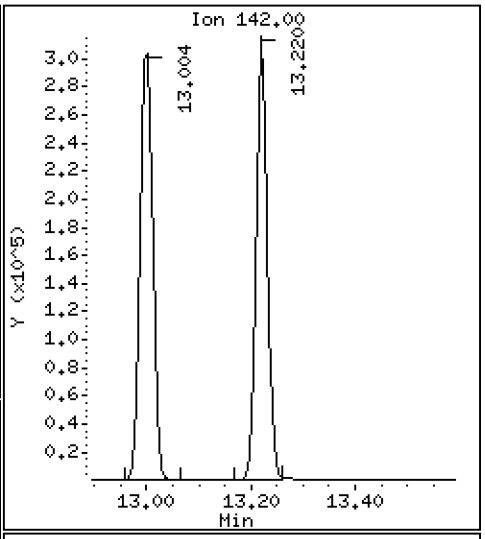
Column phase: ZB-5msi

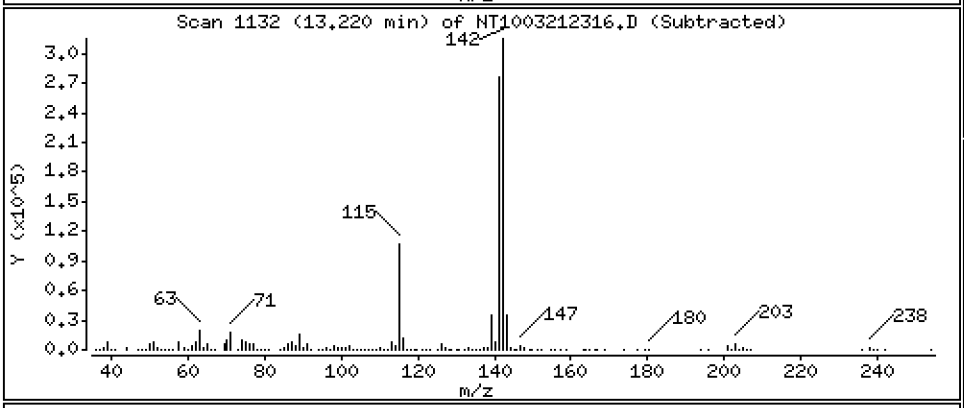
Column diameter: 0.25

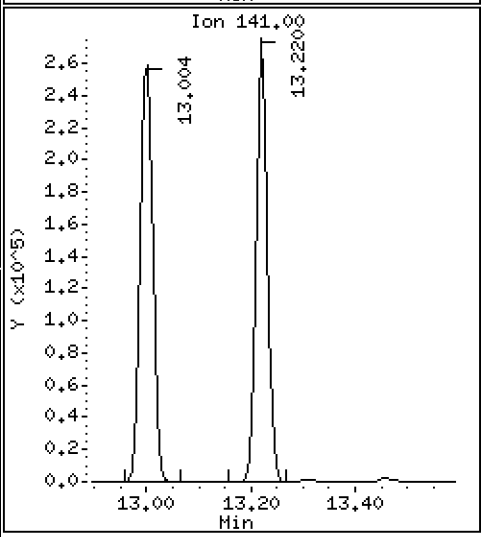
105 1-methylnaphthalene

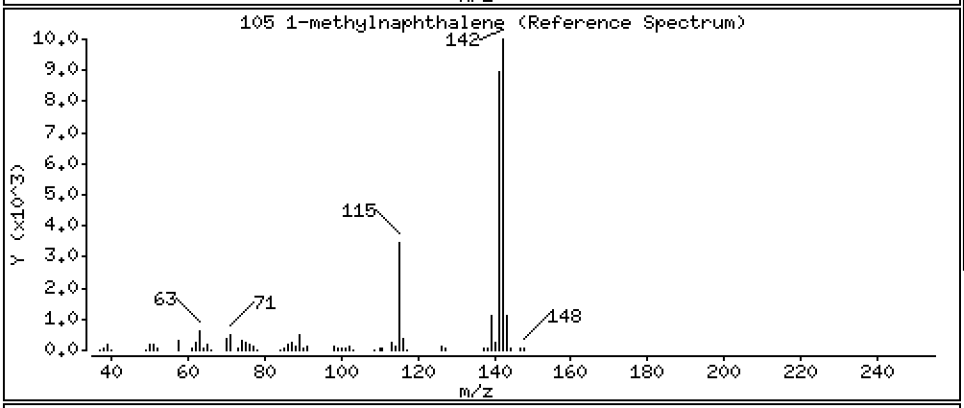
Concentration: 4.075 ug/mL

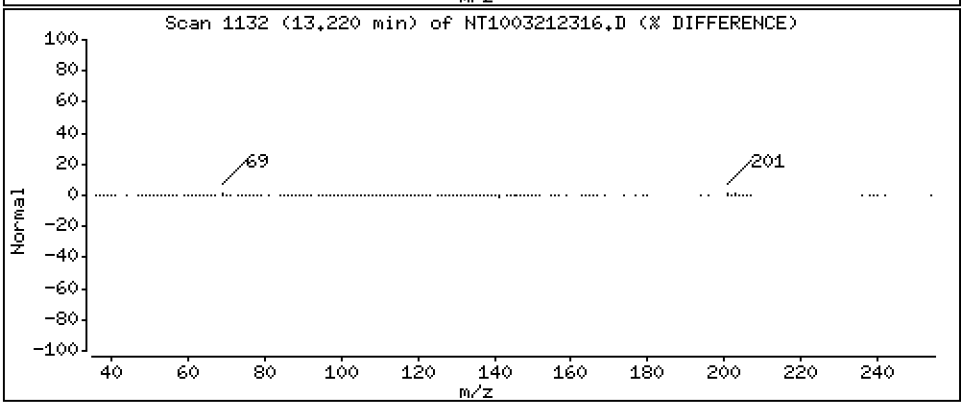












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212316.D

Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD1

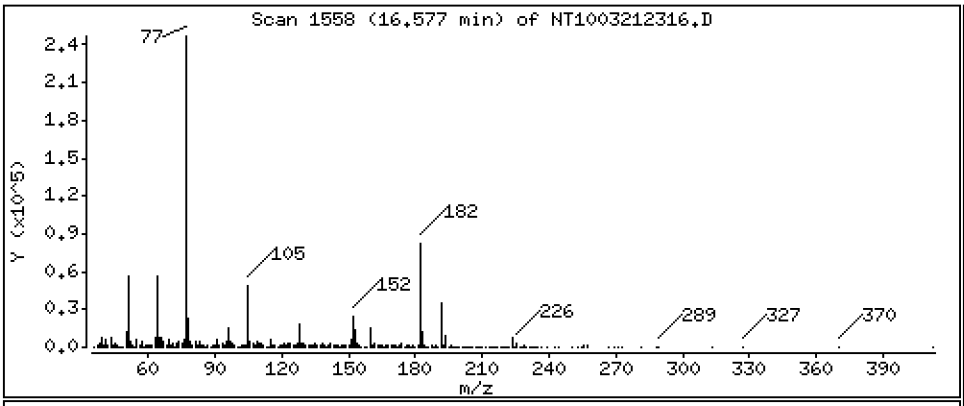
Operator: VTS

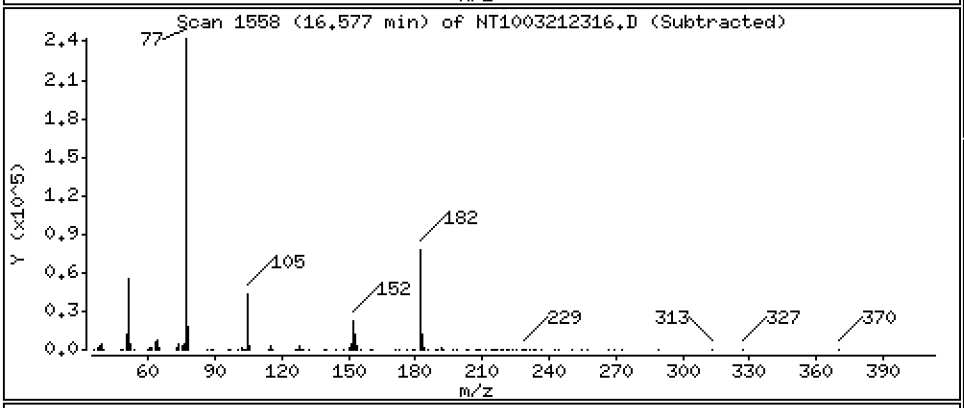
Column phase: ZB-5msi

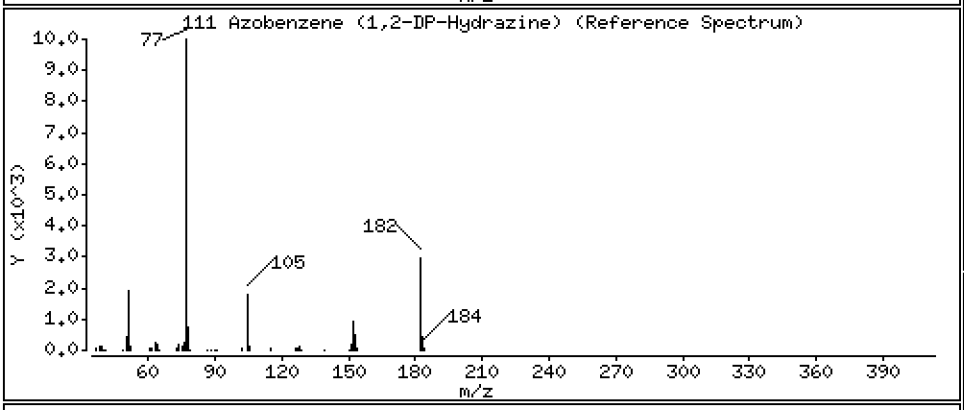
Column diameter: 0.25

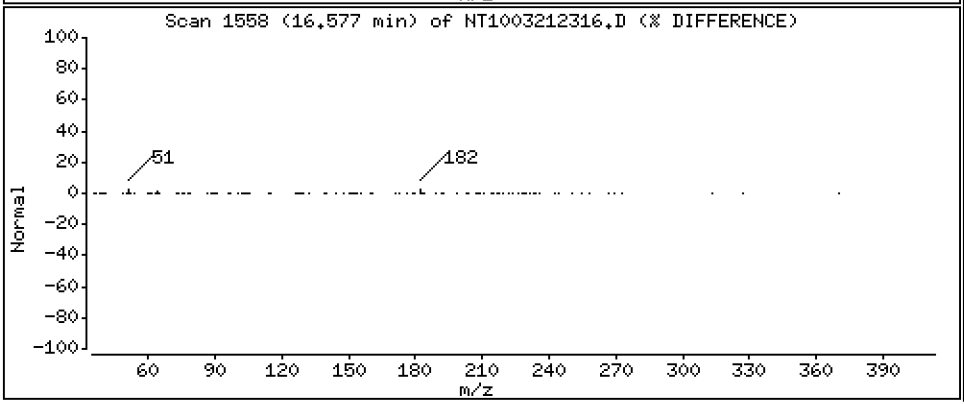
111 Azobenzene (1,2-DP-Hydrazine)

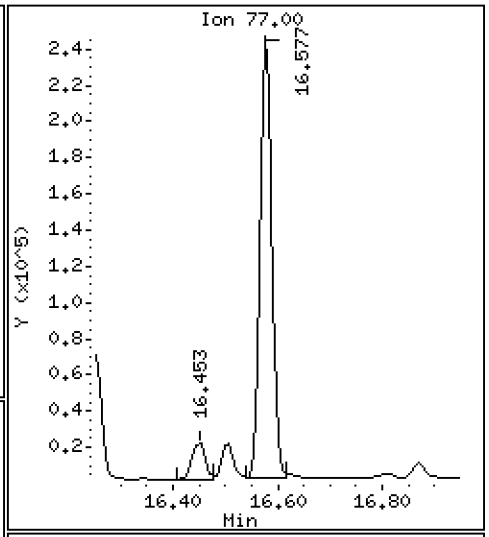
Concentration: 2.895 ug/mL

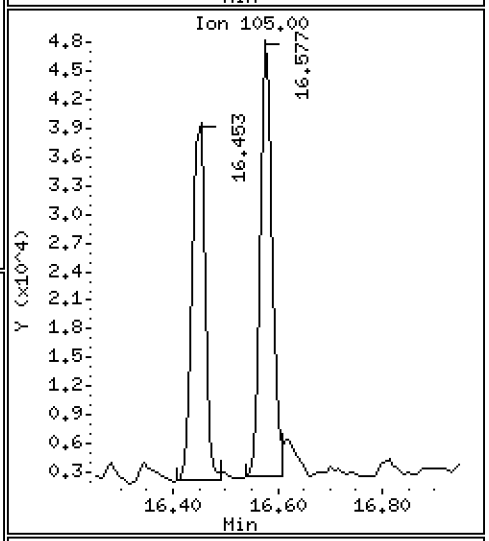


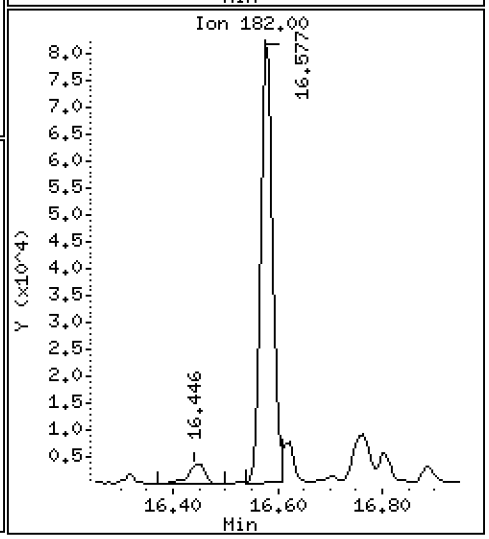












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Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD1

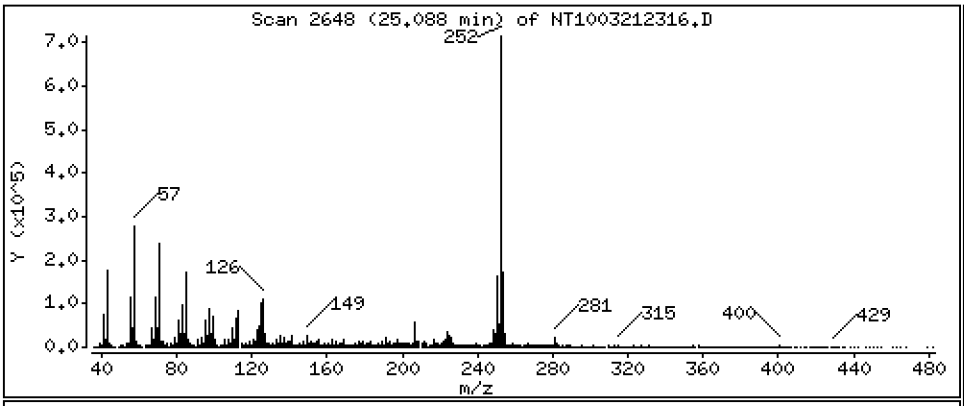
Operator: VTS

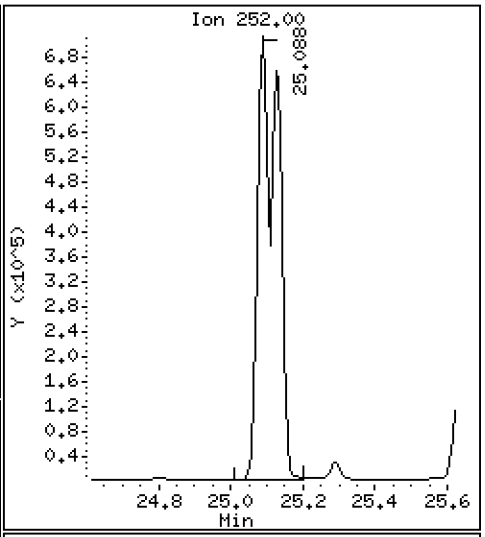
Column phase: ZB-5msi

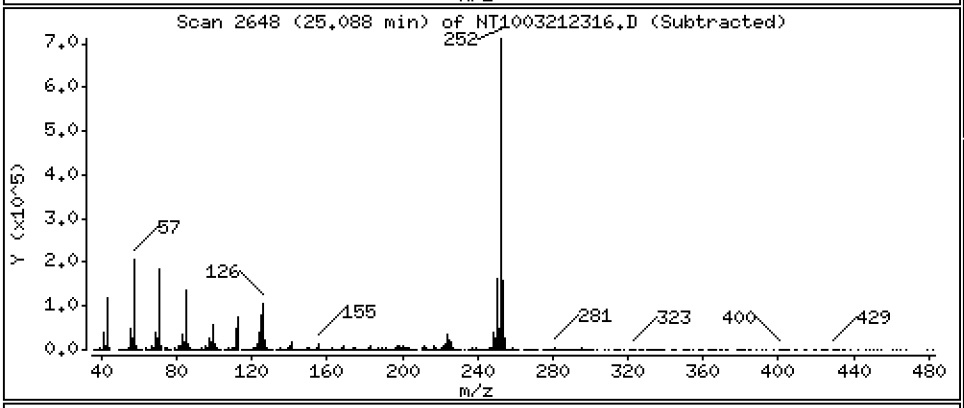
Column diameter: 0.25

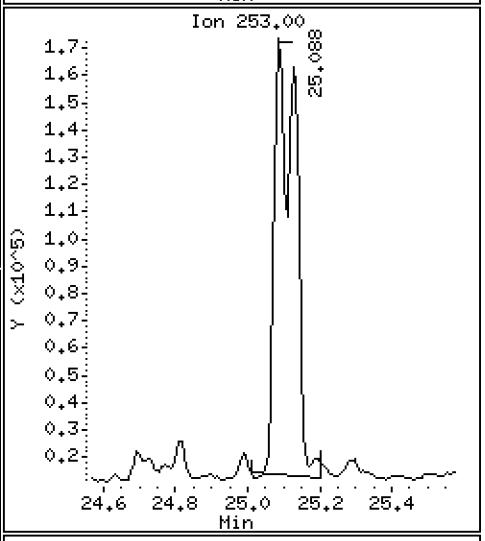
187 Total Benzofluoranthenes

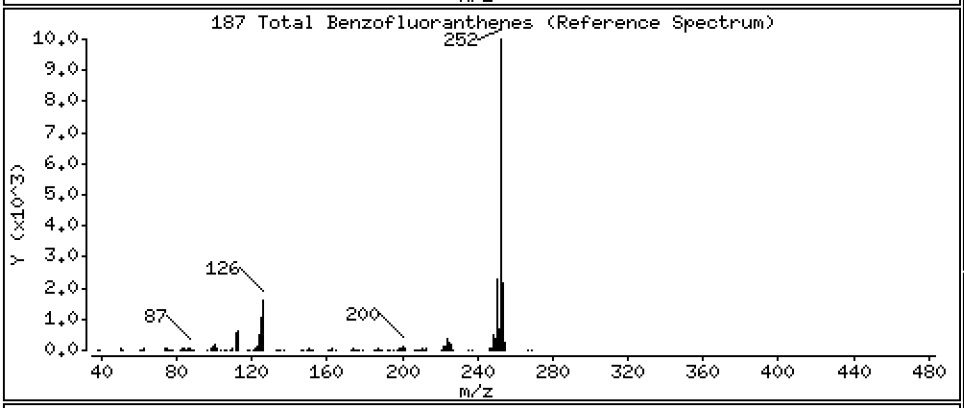
Concentration: 11.94 ug/mL

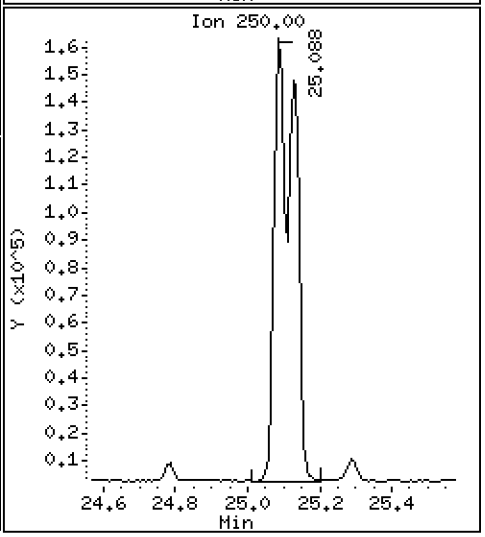


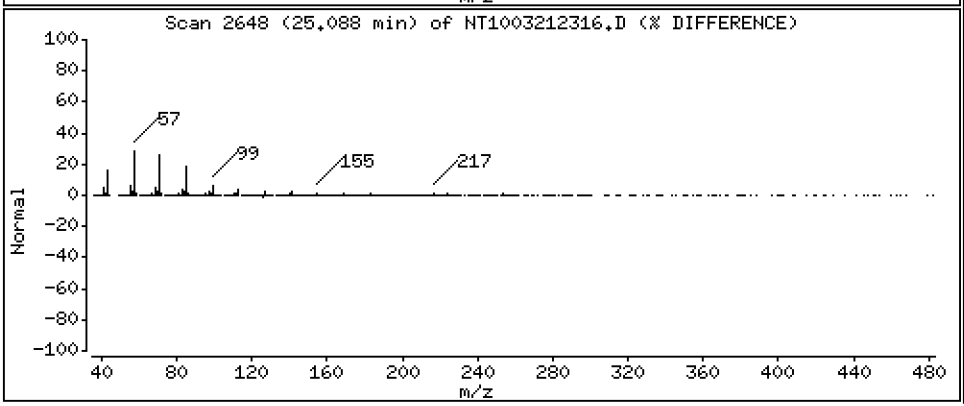












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Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD1

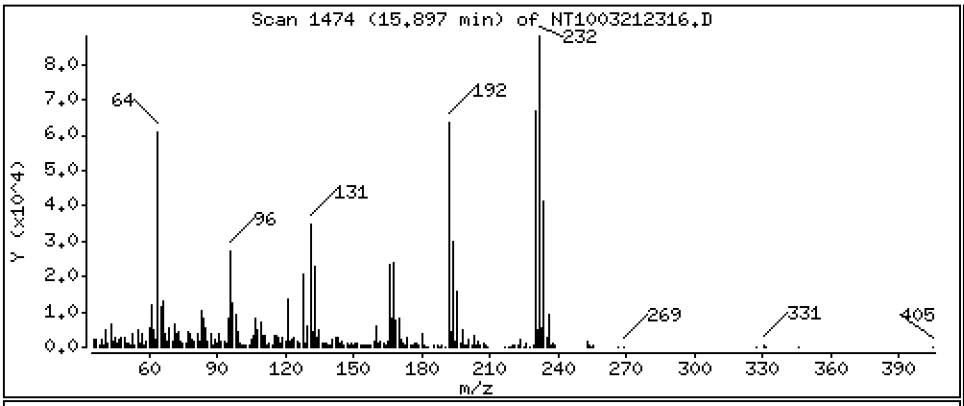
Operator: VTS

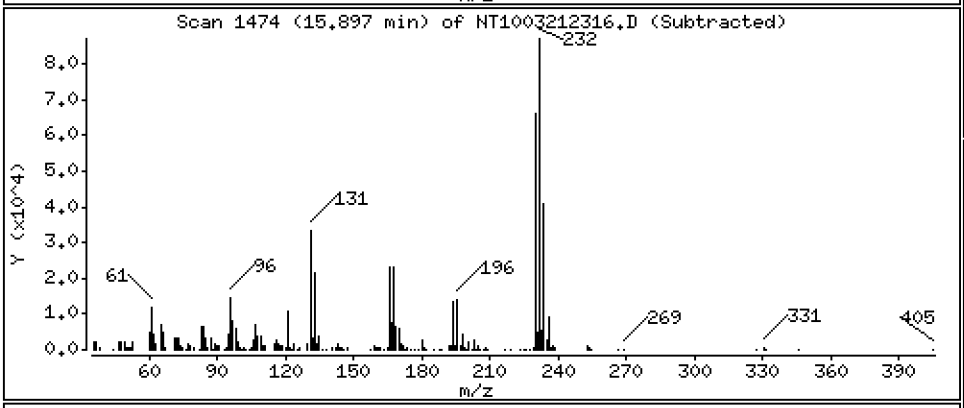
Column phase: ZB-5msi

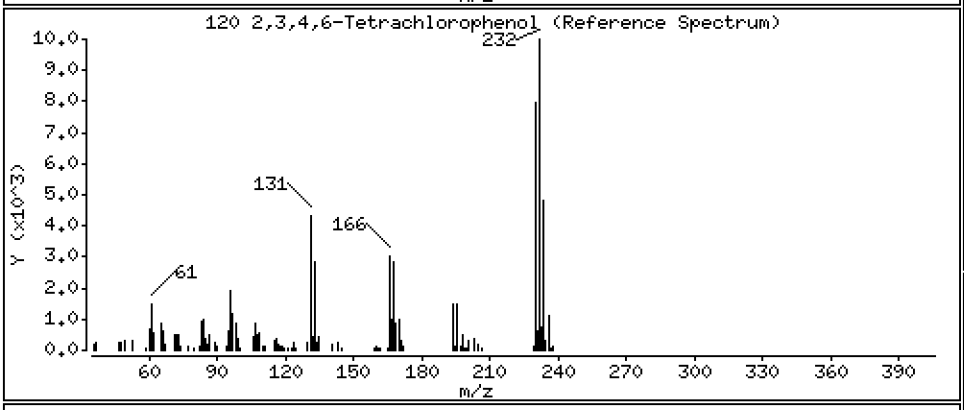
Column diameter: 0.25

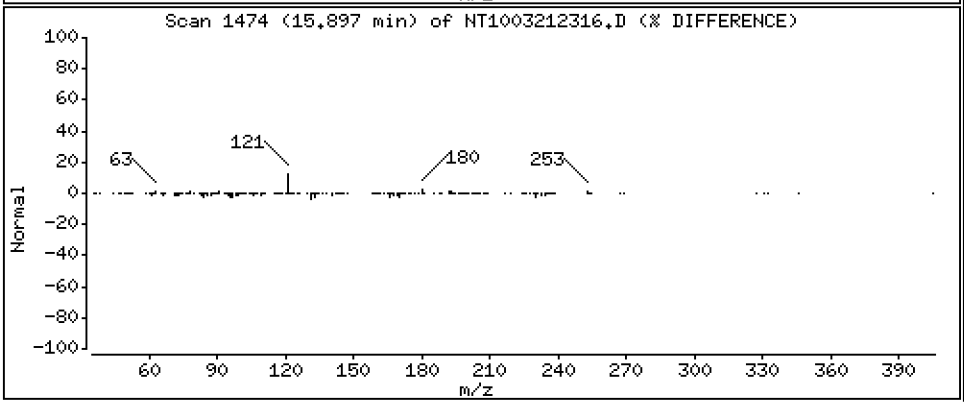
120 2,3,4,6-Tetrachlorophenol

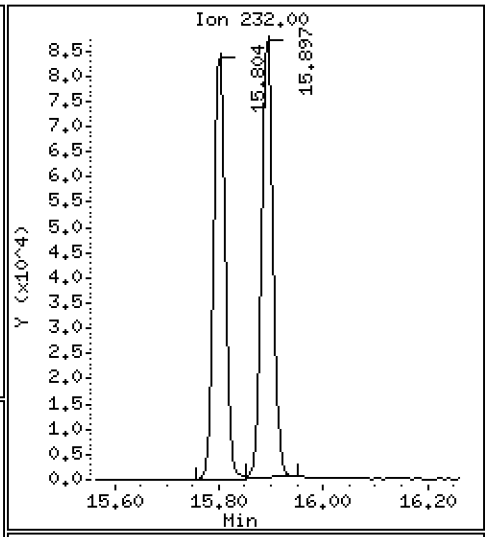
Concentration: 3.622 ug/mL

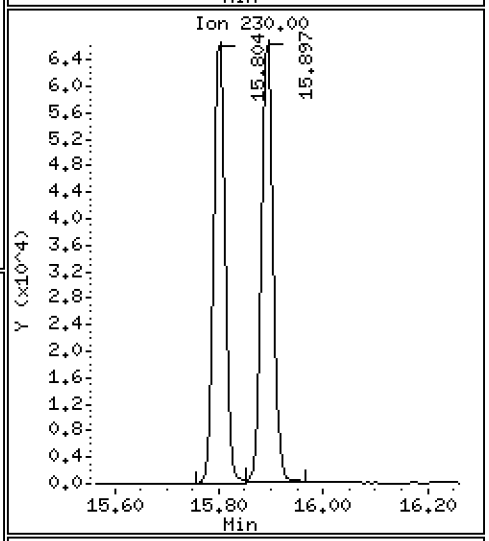


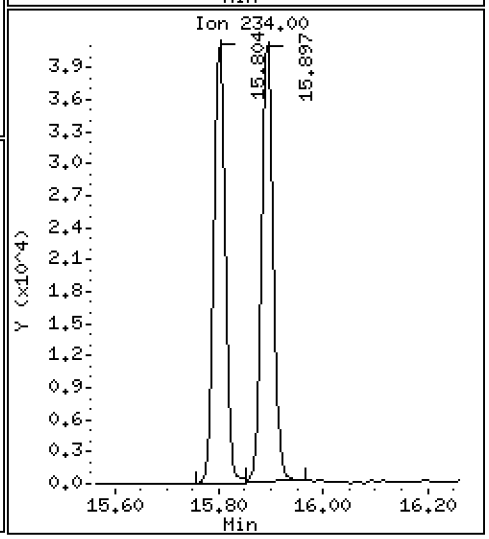












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

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Lab Smp Id: BLC0109-MSD1
Inj Date : 22-MAR-2023 02:46
Operator : VTS Inst ID: nt10.i
Smp Info : BLC0109-MSD1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230321.b\ABN.m
Meth Date : 29-Mar-2023 06:54 van Quant Type: ISTD
Cal Date : 16-MAR-2023 00:22 Cal File: NT10031508.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)	
$	1 2-Fluorophenol	112	6.882	6.889	(0.728)	277019	5.05423	5.054	
$	2 Phenol-d5	99	8.466	8.473	(0.895)	370449	5.15215	5.152	
	3 Phenol	94	8.481	8.497	(0.897)	252669	3.38167	3.382	
$	5 2-Chlorophenol-d4	132	8.736	8.744	(0.924)	354876	5.77983	5.780	
	4 Bis(2-Chloroethyl)ether	93	8.644	8.659	(0.914)	218738	3.94719	3.947	
	6 2-Chlorophenol	128	8.767	8.775	(0.927)	212915	3.32953	3.330	
	7 1,3-Dichlorobenzene	146	9.030	9.045	(0.955)	240696	3.56029	3.560	
*	8 1,4-Dichlorobenzene-d4	152	9.092	9.108	(1.000)	181241	4.00000		(H)
	9 1,4-Dichlorobenzene	146	9.123	9.139	(0.965)	235610	3.60765	3.608	
$	10 1,2-Dichlorobenzene-d4	152	9.457	9.465	(1.000)	160724	3.64504	3.645	
	12 1,2-Dichlorobenzene	146	9.480	9.496	(1.002)	230975	3.59365	3.594	
	11 Benzyl alcohol	108	9.372	9.379	(0.991)	159601	4.55092	4.551	
	14 2,2'-oxybis(1-Chloropropane)	121	9.667	9.682	(1.022)	76307	4.04271	4.043	
	13 2-Methylphenol	108	9.597	9.604	(1.015)	135459	2.48701	2.487	
	17 Hexachloroethane	117	10.070	10.086	(1.065)	60931	2.27395	2.274	
	16 N-Nitroso-di-n-propylamine	70	9.923	9.938	(1.049)	151221	3.51617	3.516	
	15 4-Methylphenol	108	9.869	9.876	(1.044)	173937	3.03085	3.031	
$	18 Nitrobenzene-d5	82	10.187	10.202	(0.880)	246037	3.71509	3.715	
	19 Nitrobenzene	77	10.218	10.241	(0.883)	227302	3.49735	3.497	
	20 Isophorone	82	10.668	10.683	(0.922)	424139	5.10133	5.101	
	21 2-Nitrophenol	139	10.850	10.858	(0.938)	132951	4.18834	4.188	
	22 2,4-Dimethylphenol	107	10.901	10.918	(0.942)	121081	2.02830	2.028	
	23 Bis(2-Chloroethoxy)methane	93	11.096	11.113	(0.959)	240368	4.32803	4.328	
	24 Benzoic acid	105	11.096	11.113	(0.959)	525767	15.3060	15.31	
	25 2,4-Dichlorophenol	162	11.300	11.316	(0.976)	636563	13.3253	13.33	
	26 1,2,4-Trichlorobenzene	180	11.487	11.502	(0.993)	208804	3.72361	3.724	
*	27 Naphthalene-d8	136	11.572	11.587	(1.000)	656122	4.00000		
	28 Naphthalene	128	11.611	11.626	(1.003)	669373	3.85104	3.851	
	29 4-Chloroaniline	127	Compound Not Detected.						
	30 Hexachlorobutadiene	225	11.974	11.989	(1.035)	130314	3.96608	3.966	
	31 4-Chloro-3-methylphenol	107	12.701	12.716	(1.098)	593133	11.4694	11.47	
	32 2-Methylnaphthalene	142	13.003	13.018	(1.124)	492066	3.92284	3.923	
	33 Hexachlorocyclopentadiene	237	13.460	13.483	(0.887)	24879	0.72421	0.7242	

		QUANT SIG					CONCENTRATIONS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
	34 2,4,6-Trichlorophenol	196	13.622	13.637	(0.898)	471993	12.8653	12.87
	35 2,4,5-Trichlorophenol	196	13.700	13.707	(0.903)	512246	12.5659	12.57
$	36 2-Fluorobiphenyl	172	13.777	13.800	(0.908)	586071	3.99140	3.991
	37 2-Chloronaphthalene	162	13.986	14.009	(0.922)	454651	3.82406	3.824
	38 2-Nitroaniline	65	14.249	14.272	(0.939)	342046	10.2418	10.24
	39 Dimethylphthalate	163	14.683	14.698	(0.968)	511130	4.23877	4.239
	40 Acenaphthylene	152	14.853	14.876	(0.979)	683729	3.69059	3.691
	41 2,6-Dinitrotoluene	165	14.814	14.837	(0.977)	345258	13.2541	13.25
*	42 Acenaphthene-d10	164	15.170	15.185	(1.000)	371192	4.00000	
	43 3-Nitroaniline	138	15.108	15.116	(0.996)	22427	0.76278	0.7628(M)
	44 Acenaphthene	153	15.232	15.247	(1.004)	464466	4.05817	4.058
	45 2,4-Dinitrophenol	184	15.301	15.324	(1.009)	22347	1.41779	1.418
	46 Dibenzofuran	168	15.557	15.572	(1.025)	685191	4.05975	4.060
	47 4-Nitrophenol	109	15.433	15.432	(1.017)	163903	8.91255	8.913
	48 2,4-Dinitrotoluene	165	15.618	15.641	(1.030)	473374	12.2553	12.26
	50 Diethylphthalate	149	16.121	16.144	(1.063)	536598	4.53545	4.535
	49 Fluorene	166	16.268	16.283	(1.072)	632490	4.76338	4.763
	51 4-Chlorophenyl-phenylether	204	16.252	16.275	(1.071)	268597	4.25387	4.254
	52 4-Nitroaniline	138	16.368	16.375	(1.079)	70634	2.66579	2.666
	53 4,6-Dinitro-2-methylphenol	198	16.453	16.468	(0.904)	165850	7.65580	7.656
	54 N-Nitrosodiphenylamine	169	16.507	16.522	(0.907)	306123	3.21984	3.220
$	55 2,4,6-Tribromophenol	330	16.800	16.815	(1.107)	131788	7.62209	7.622
	56 4-Bromophenyl-phenylether	248	17.255	17.270	(0.949)	173610	4.36497	4.365
	57 Hexachlorobenzene	284	17.572	17.587	(0.966)	172502	4.13671	4.137
	58 Pentachlorophenol	266	17.928	17.943	(0.986)	349947	13.8075	13.81
*	59 Phenanthrene-d10	188	18.191	18.206	(1.000)	711118	4.00000	
	60 Phenanthrene	178	18.237	18.252	(1.003)	1053934	5.43527	5.435
	61 Anthracene	178	18.330	18.338	(1.008)	685433	3.68499	3.685
	62 Carbazole	167	18.663	18.670	(1.026)	682801	4.09651	4.097
	63 Di-n-butylphthalate	149	19.468	19.475	(1.070)	958133	4.29476	4.295
	64 Fluoranthene	202	20.644	20.620	(0.888)	1711054	6.67988	6.680
	65 Pyrene	202	21.054	21.046	(0.906)	1636264	6.22710	6.227
$	66 Terphenyl-d14	244	21.332	21.332	(0.918)	767646	3.89014	3.890
	67 Butylbenzylphthalate	149	22.261	22.261	(0.958)	420841	4.43668	4.437
	68 Benzo(a)anthracene	228	23.206	23.198	(0.999)	1133446	5.03730	5.037
*	69 Chrysene-d12	240	23.237	23.229	(1.000)	637480	4.00000	
	70 3,3'-Dichlorobenzidine	252	Compound Not Detected.					
	71 Chrysene	228	23.283	23.275	(1.002)	1310825	5.96286	5.963
	72 bis(2-Ethylhexyl)phthalate	149	23.283	23.283	(0.959)	791187	5.15517	5.155
*	134 Di-n-octylphthalate-d4	153	24.274	24.266	(1.000)	1045903	4.00000	
	73 Di-n-octylphthalate	149	24.282	24.282	(1.000)	1095729	4.00331	4.003
	74 Benzo(b)fluoranthene	252	25.087	25.071	(0.970)	1530051	6.47214	6.472
	75 Benzo(k)fluoranthene	252	25.126	25.118	(0.972)	1369978	5.70703	5.707
	76 Benzo(a)pyrene	252	25.738	25.722	(0.996)	1087217	5.14391	5.144
*	77 Perylene-d12	264	25.854	25.830	(1.000)	729308	4.00000	
	78 Indeno(1,2,3-cd)pyrene	276	28.513	28.466	(1.103)	1171007	4.35479	4.355
	79 Dibenzo(a,h)anthracene	278	28.529	28.482	(1.103)	875827	3.92312	3.923
	80 Benzo(g,h,i)perylene	276	29.305	29.235	(1.134)	979081	4.20727	4.207
	90 N-Nitrosodimethylamine	74	4.719	4.727	(0.499)	246605	7.05246	7.052
	91 Aniline	93	8.605	8.566	(0.910)	317671	4.14936	4.149
	93 Benzidine	184	Compound Not Detected.					
	103 Pyridine	79	4.781	4.758	(0.506)	40639	0.75674	0.7567
	105 1-methylnaphthalene	142	13.220	13.243	(1.142)	468319	4.07496	4.075
	111 Azobenzene (1,2-DP-Hydrazine)	77	16.576	16.599	(1.093)	382573	2.89473	2.895

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.087	25.118	(0.970)	2725520	11.9407	11.94
120 2,3,4,6-Tetrachlorophenol	232	15.897	15.912	(1.048)	138473	3.62236	3.622

QC Flag Legend

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

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1003212316.D
Lab Smp Id: BLC0109-MSD1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230321.b\ABN.m
Misc Info:

Calibration Date: 21-MAR-2023
Calibration Time: 17:46
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	138414	69207	276828	181241	30.94
27 Naphthalene-d8	511348	255674	1022696	656122	28.31
42 Acenaphthene-d10	293241	146621	586482	371192	26.58
59 Phenanthrene-d10	535484	267742	1070968	711118	32.80
69 Chrysene-d12	464733	232367	929466	637480	37.17
134 Di-n-octylphthala	716354	358177	1432708	1045903	46.00
77 Perylene-d12	509704	254852	1019408	729308	43.08

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.11	8.61	9.61	9.09	-0.17
27 Naphthalene-d8	11.59	11.09	12.09	11.57	-0.13
42 Acenaphthene-d10	15.19	14.69	15.69	15.17	-0.10
59 Phenanthrene-d10	18.21	17.71	18.71	18.19	-0.08
69 Chrysene-d12	23.23	22.73	23.73	23.24	0.03
134 Di-n-octylphthala	24.27	23.77	24.77	24.27	0.03
77 Perylene-d12	25.83	25.33	26.33	25.85	0.09

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

REVIEW SUMMARY FOR FILE - NT1003212316.D

Lab ID: BLC0109-MSD1
nt10.i, 20230321.b\ABN.m,   22-MAR-2023 02:46

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

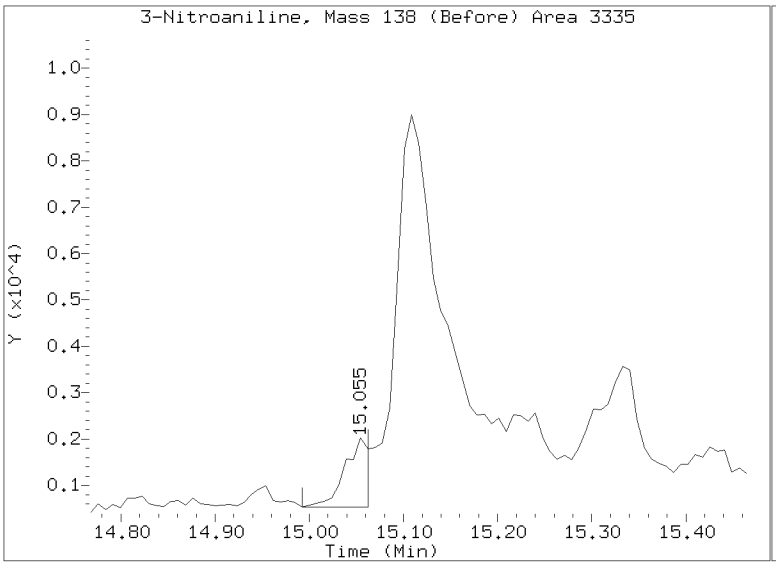
RRT check based on Ccal File: NT1003212302.D

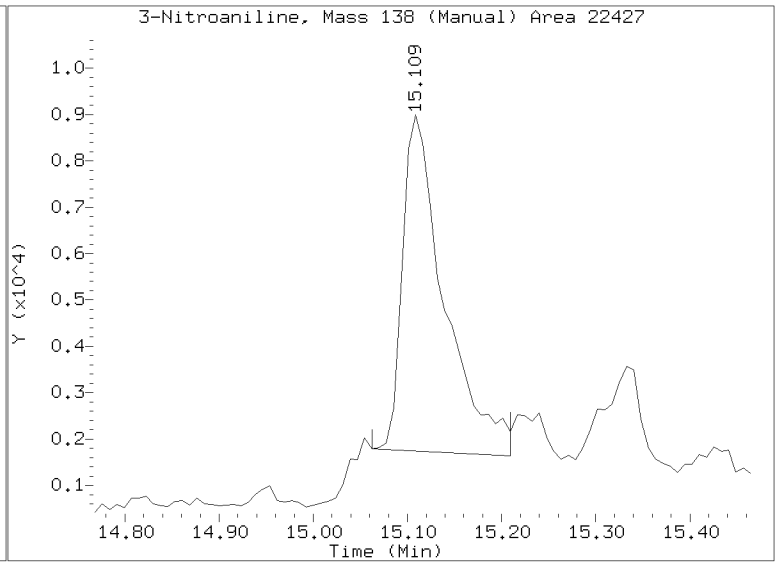
On Column LOD for nt10.i, 20230321.b\ABN.m, ICAL.sub = 0.0000

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230321.b/NT1003212316.D
Injection Date: 22-MAR-2023 02:46
Lab ID:BLC0109-MSD1 Client ID:
Report Date: 03/29/2023 08:03





STANDARD REFERENCE MATERIAL RECOVERY

EPA 8270E

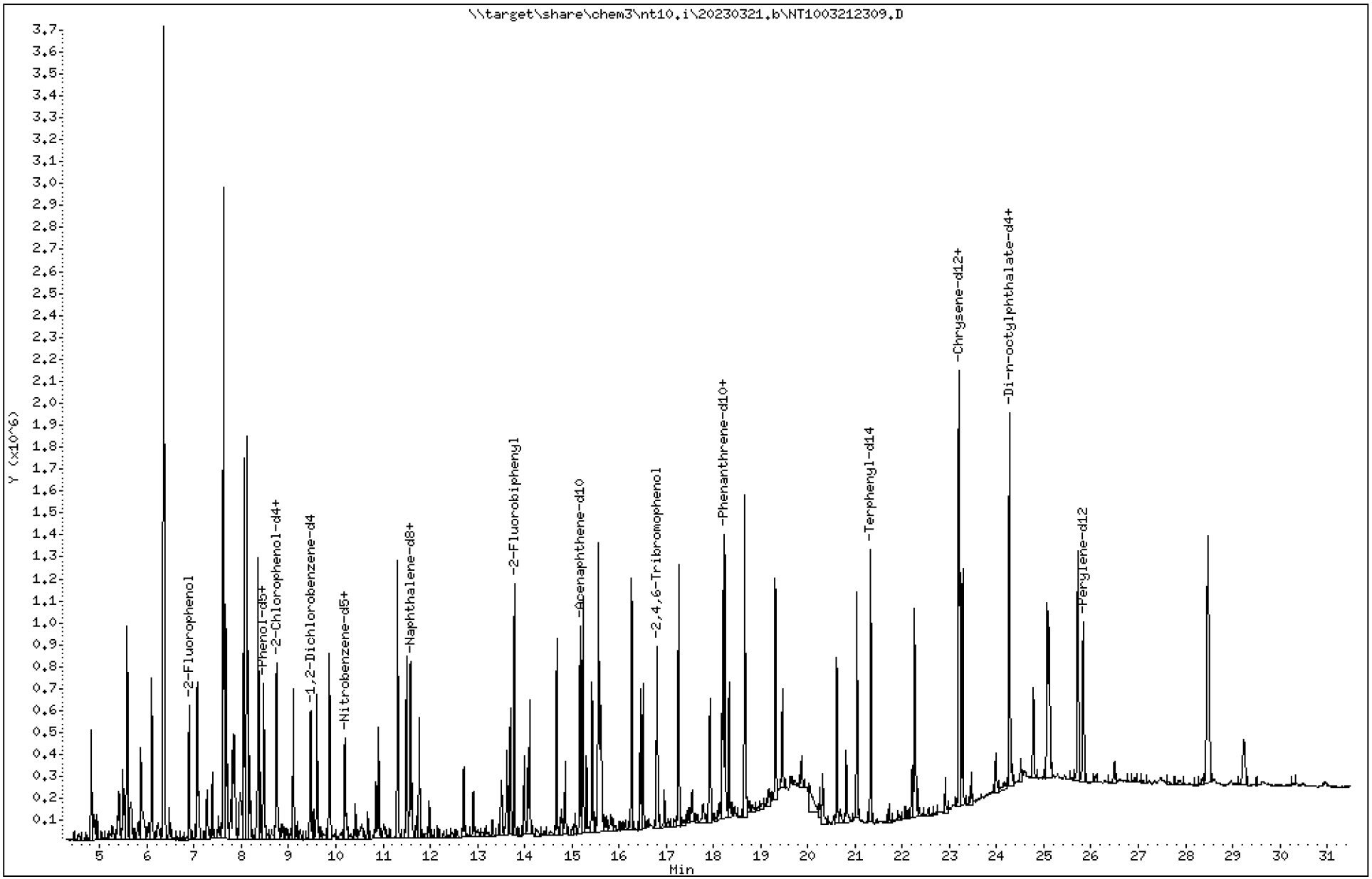
Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Matrix: Solid
Laboratory ID: BLC0109-SRM1
Batch: BLC0109
Initial/Final: 1 g / 1 mL
Preparation: EPA 3546 (Microwave)
Analyzed: 03/21/2023 22:18
Standard ID: K003477
Expires: 01/31/2024
Standard Lot#: CRM 143 (LRAC8918)
Description: CRM 143 BNAs - Sandy Loam

ANALYTE	TRUE (ug/kg wet)	FOUND (ug/kg wet)	MDL	MRL	Q	SRM % REC.	QC LIMITS REC.
Phenol	2660.0	2000	43.9	200		75.2	26 - 174
4-Methylphenol	6617.0	5620	73.9	200		85.0	40 - 160
Naphthalene	4458.0	1150	42.4	200		25.8	25 - 175
Acenaphthylene	1948.0	1290	62.4	200		66.3	37 - 167
Dimethylphthalate	4537.0	4850	43.9	200		107	41 - 159
Acenaphthene	5489.0	4020	52.2	200		73.2	41 - 159
Dibenzofuran	6130.0	5220	141	200		85.2	45 - 155
Fluorene	3724.0	3340	146	200		89.6	44 - 156
Phenanthrene	5052.0	4810	87.2	200		95.3	46 - 154
Anthracene	2866.0	2320	71.9	200		81.0	42 - 158
Fluoranthene	2497.0	2420	60.9	200		96.7	39 - 161
Pyrene	2964.0	3030	56.8	200		102	38 - 162
Butylbenzylphthalate	3511.0	4350	94.1	200		124	36 - 164
Benzo(a)anthracene	5751.0	5990	59.6	200		104	49 - 151
Chrysene	1477.0	1450	60.6	200		97.9	45 - 155
bis(2-Ethylhexyl)phthalate	2905.0	2810	54.6	500		96.8	26 - 174
Benzofluoranthenes, Total	6534.0	5720	100	400		87.6	40 - 160
Benzo(a)pyrene	5902.0	5110	42.3	200		86.6	43 - 157
Indeno(1,2,3-cd)pyrene	3914.0	4240	147	200		108	22 - 178
Dibenzo(a,h)anthracene	3420.0	3850	172	200		112	37 - 163
Benzo(g,h,i)perylene	1380.0	1540	136	200		111	35 - 165

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212309.D
Date : 21-MAR-2023 22:18
Client ID:
Sample Info: BLC0109-SRM1

Instrument: nt10.i
Operator: VTS
Column phase: ZB-5msi
Column diameter: 0.25



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Date : 21-MAR-2023 22:18

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-SRM1

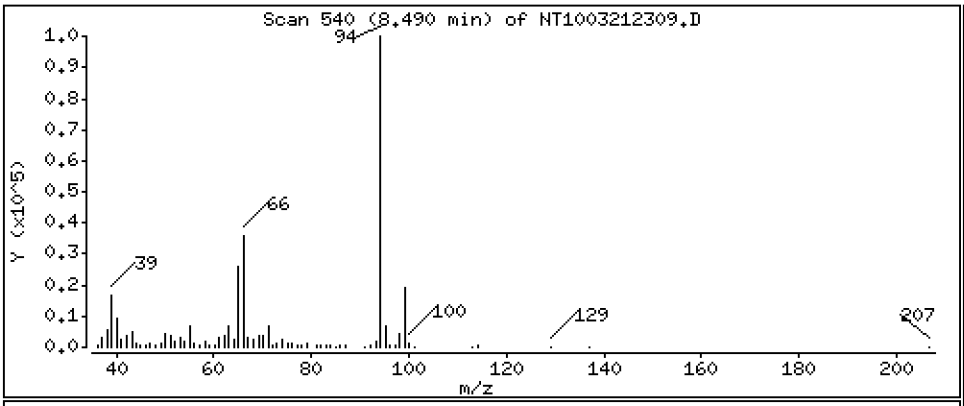
Operator: VTS

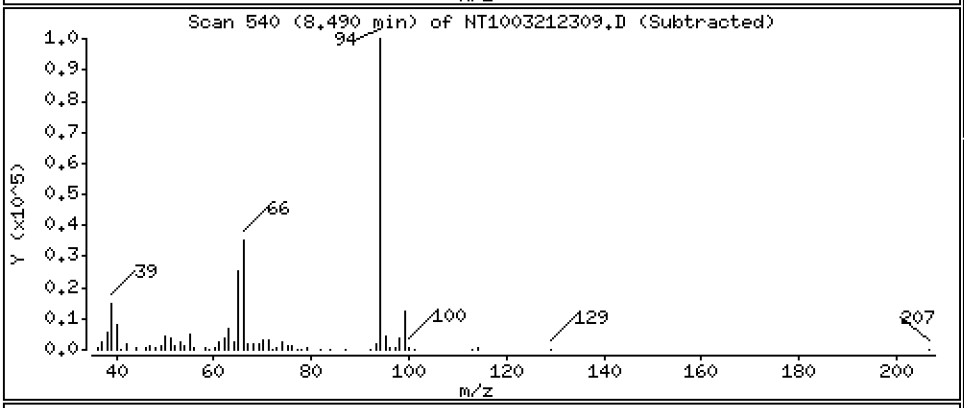
Column phase: ZB-5msi

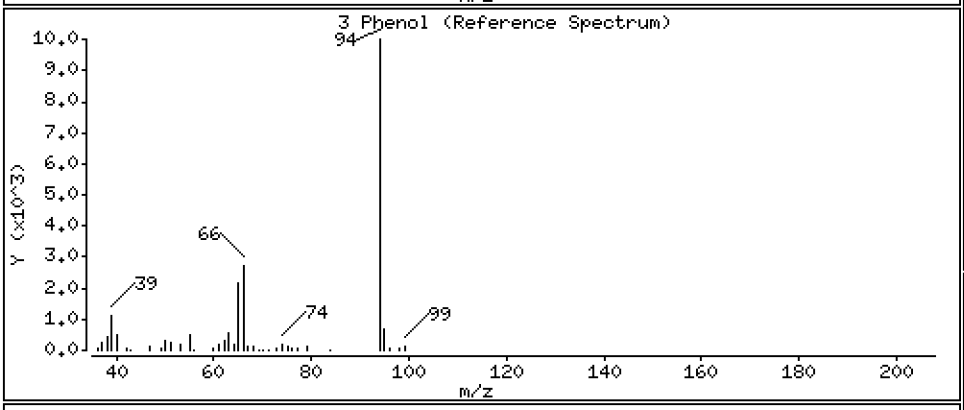
Column diameter: 0.25

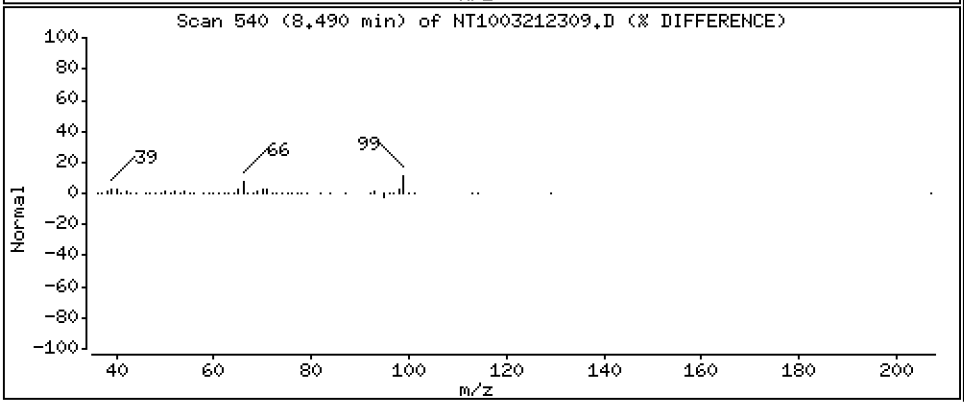
3 Phenol

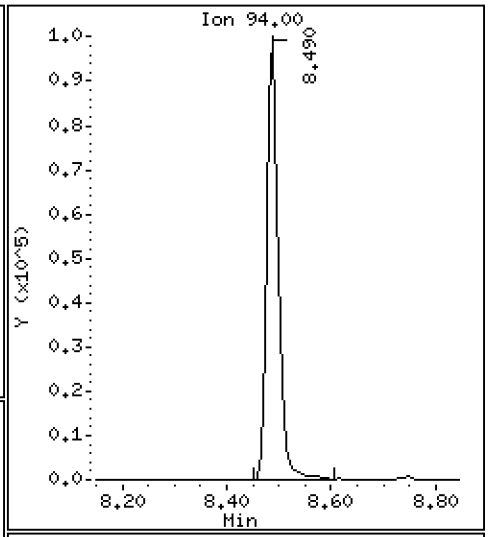
Concentration: 2.000 ug/mL

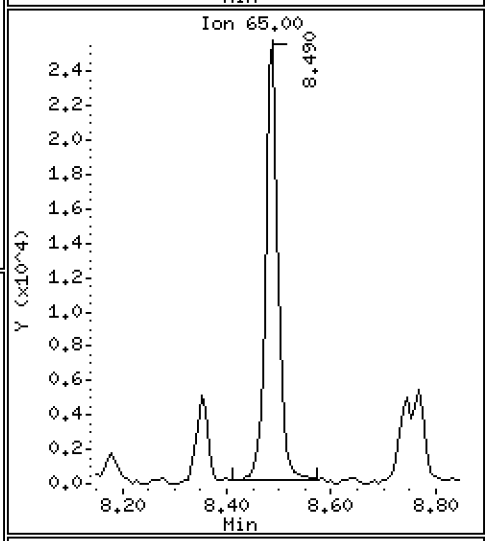


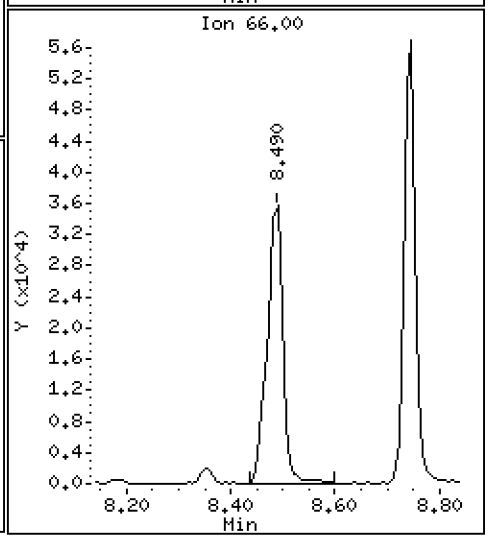












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Date : 21-MAR-2023 22:18

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-SRM1

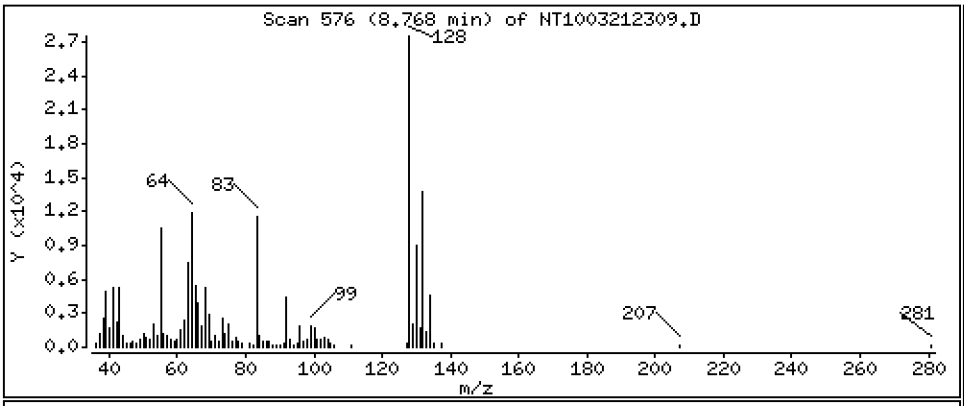
Operator: VTS

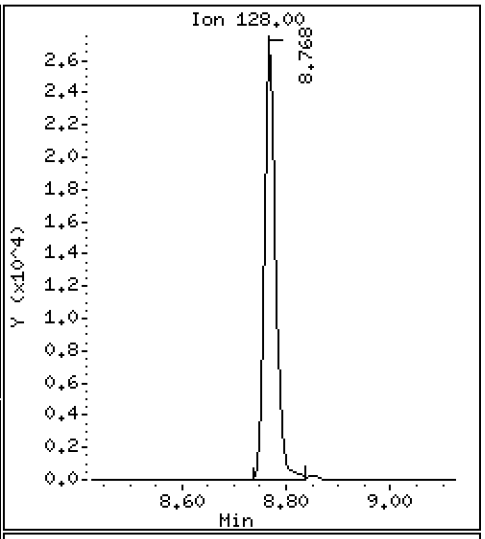
Column phase: ZB-5msi

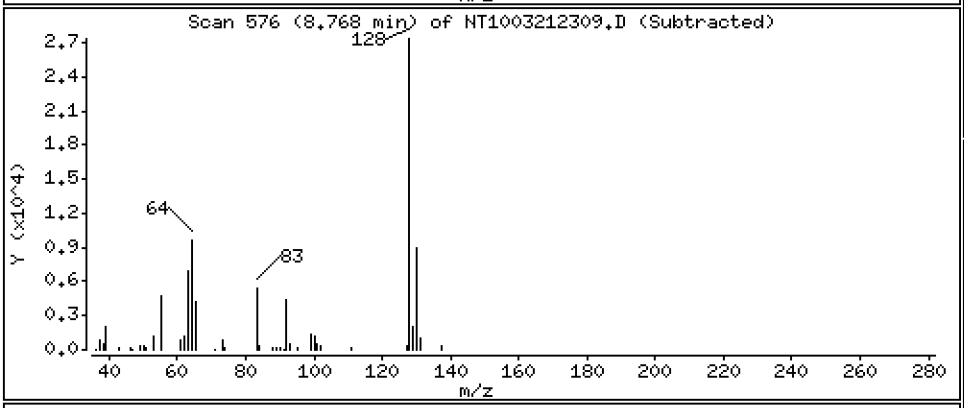
Column diameter: 0.25

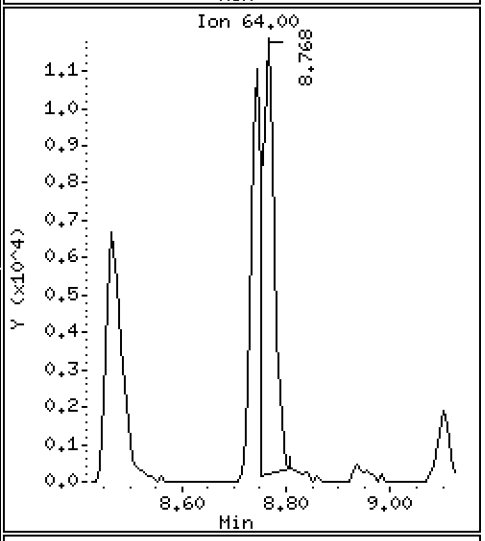
6 2-Chlorophenol

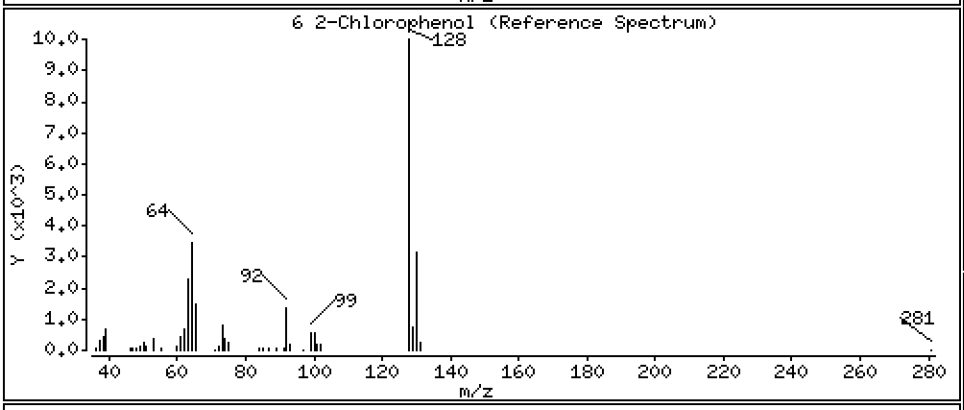
Concentration: 0.6374 ug/mL

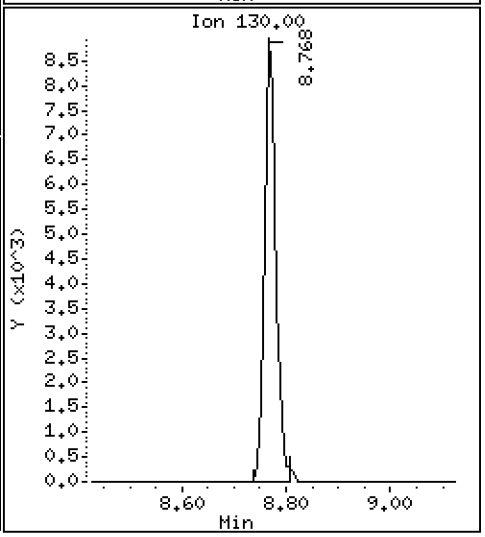


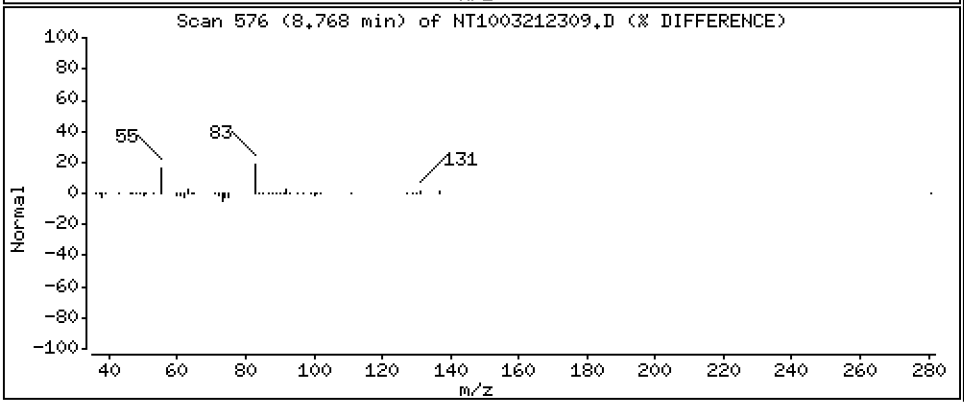












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Date : 21-MAR-2023 22:18

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-SRM1

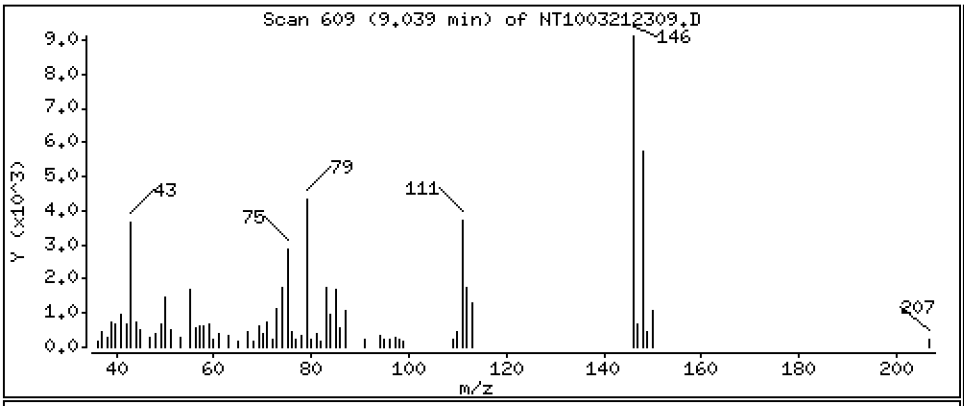
Operator: VTS

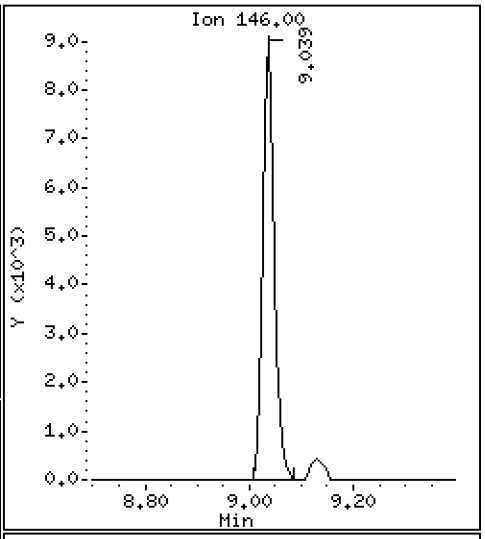
Column phase: ZB-5msi

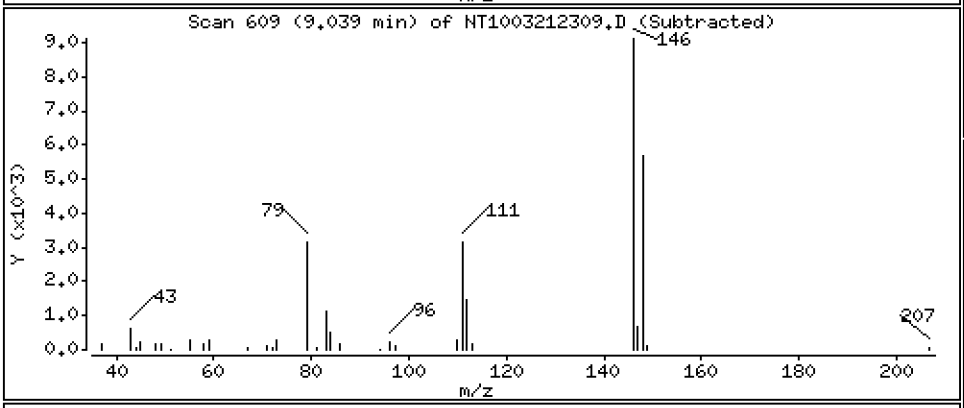
Column diameter: 0.25

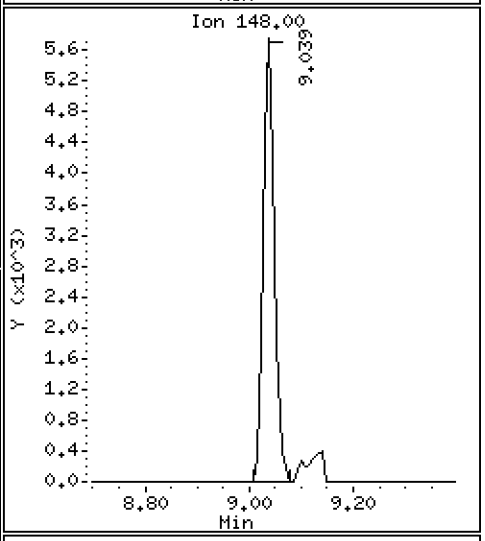
7 1,3-Dichlorobenzene

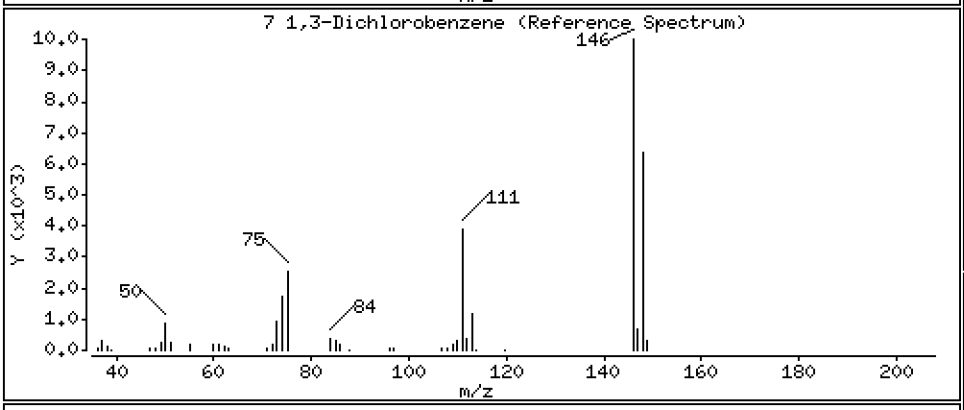
Concentration: 0.2070 ug/mL

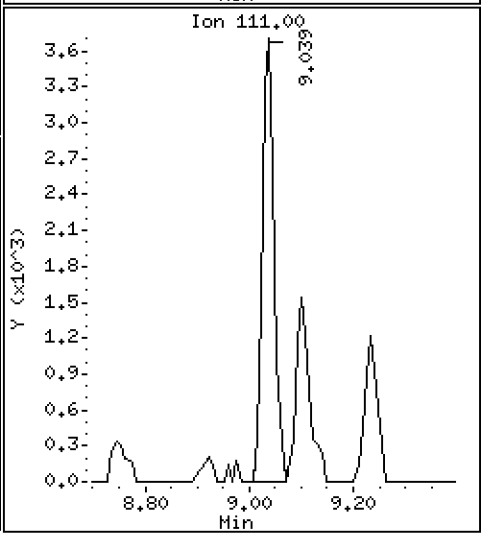


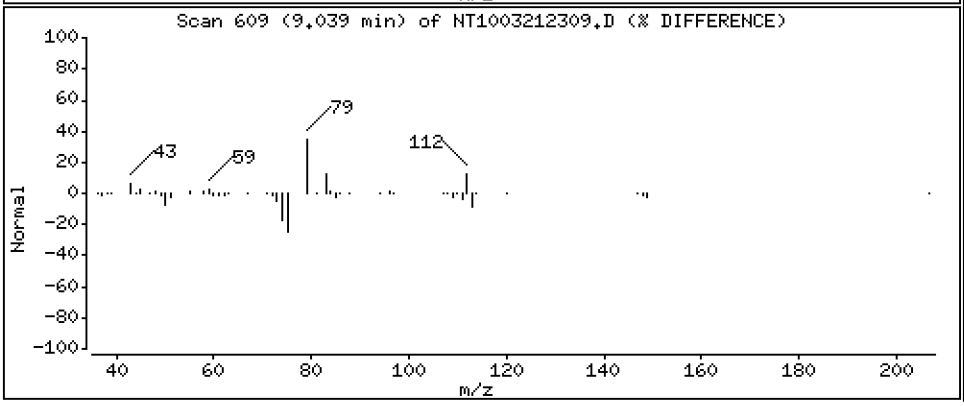












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Date : 21-MAR-2023 22:18

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-SRM1

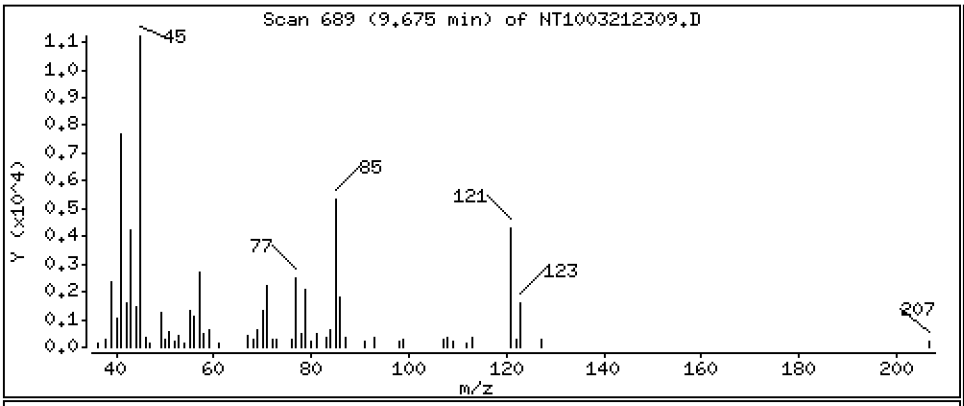
Operator: VTS

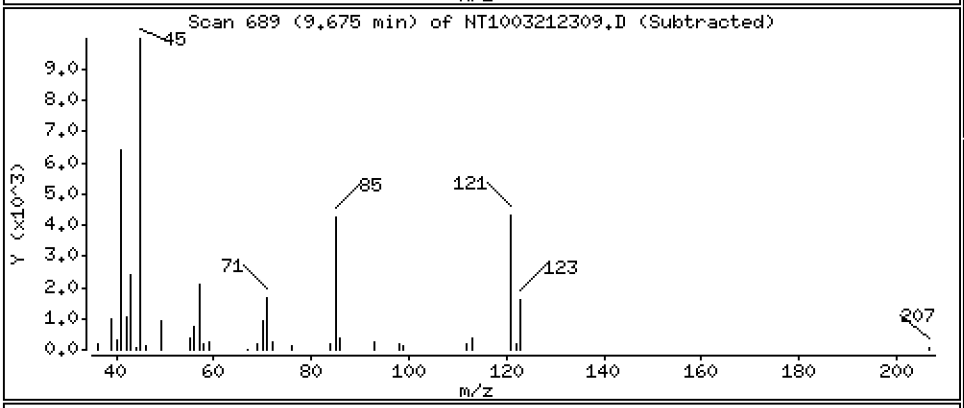
Column phase: ZB-5msi

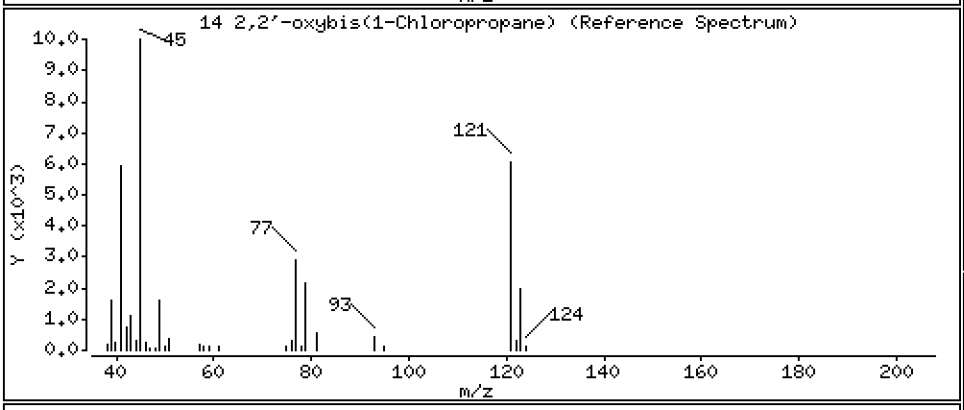
Column diameter: 0.25

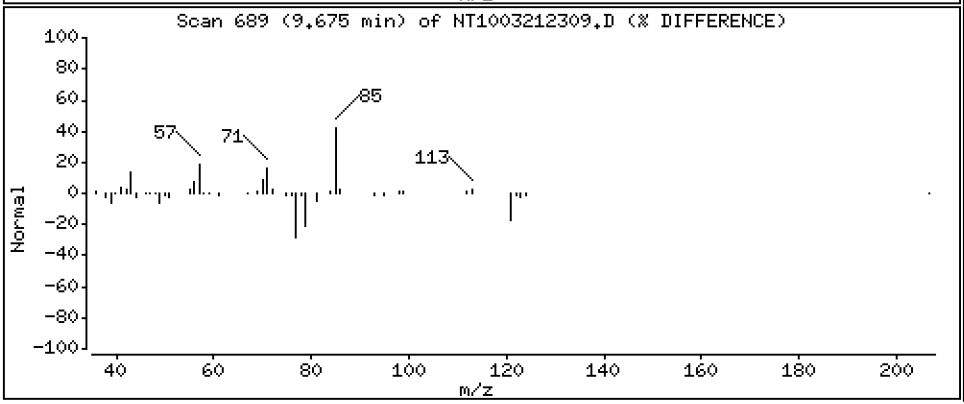
14 2,2'-oxybis(1-Chloropropane)

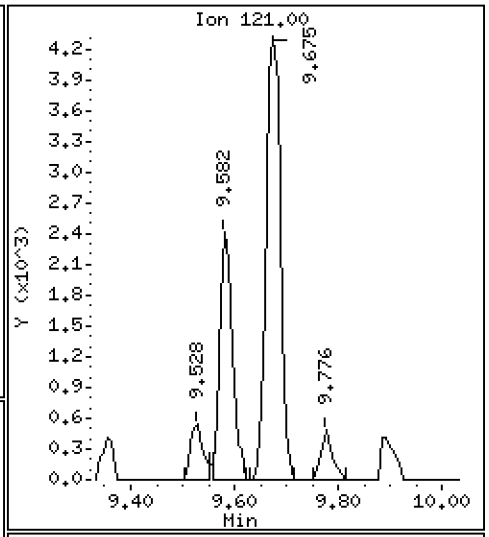
Concentration: 0.4126 ug/mL

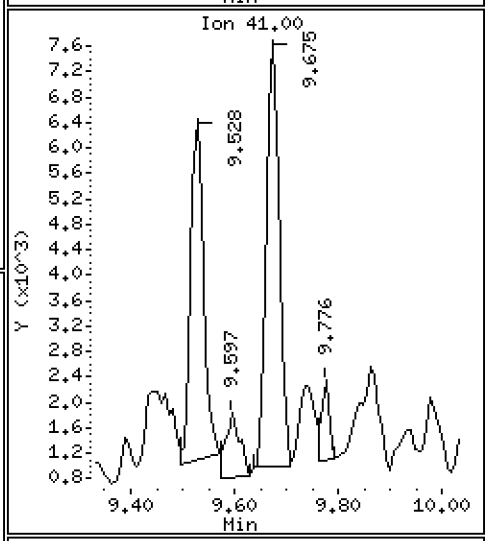


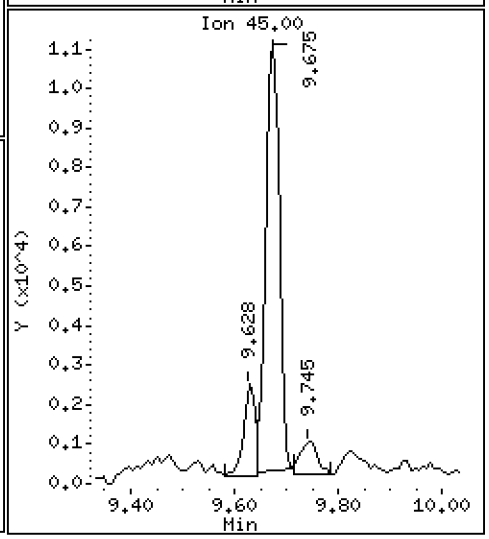












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Date : 21-MAR-2023 22:18

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-SRM1

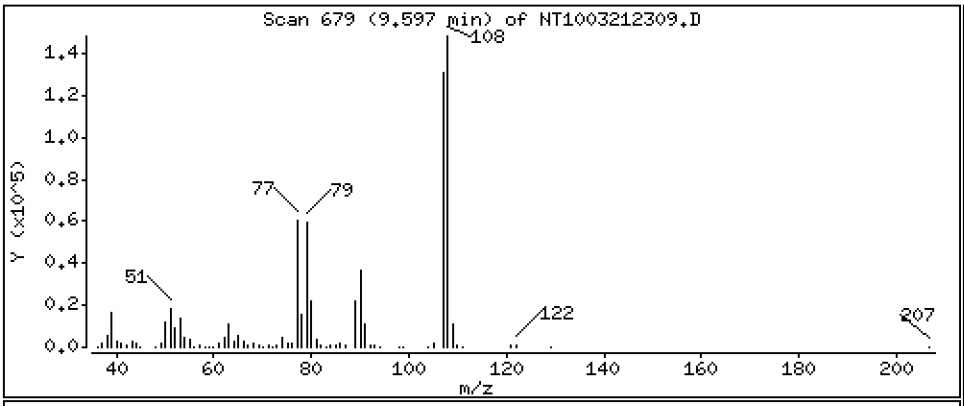
Operator: VTS

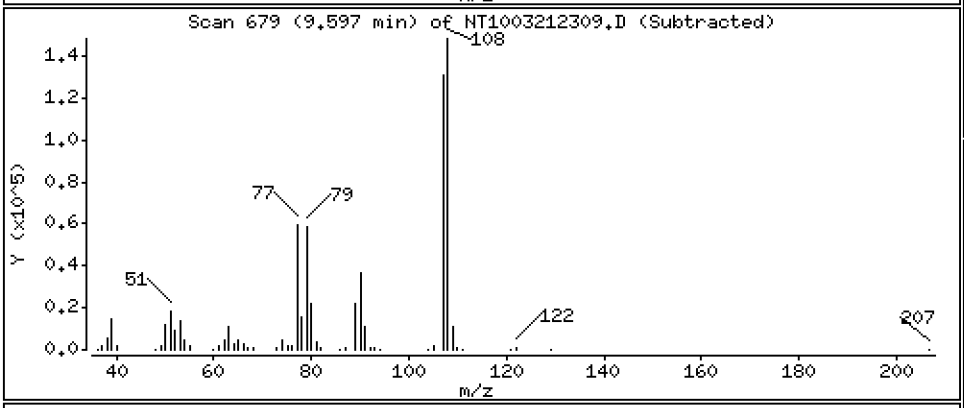
Column phase: ZB-5msi

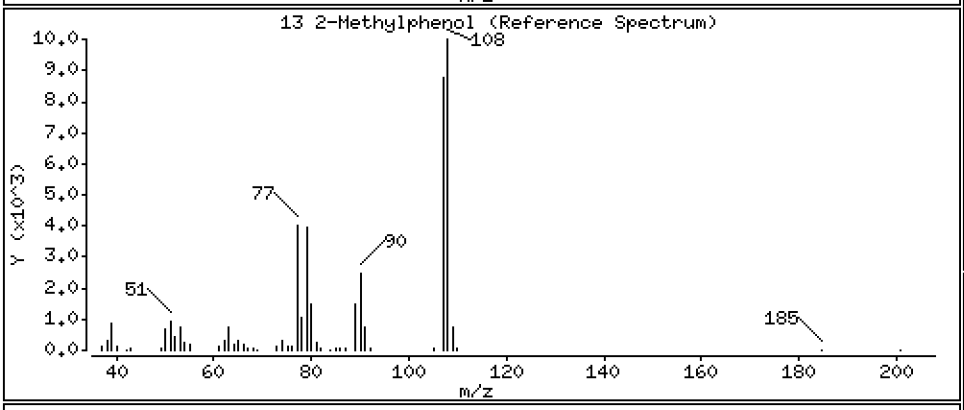
Column diameter: 0.25

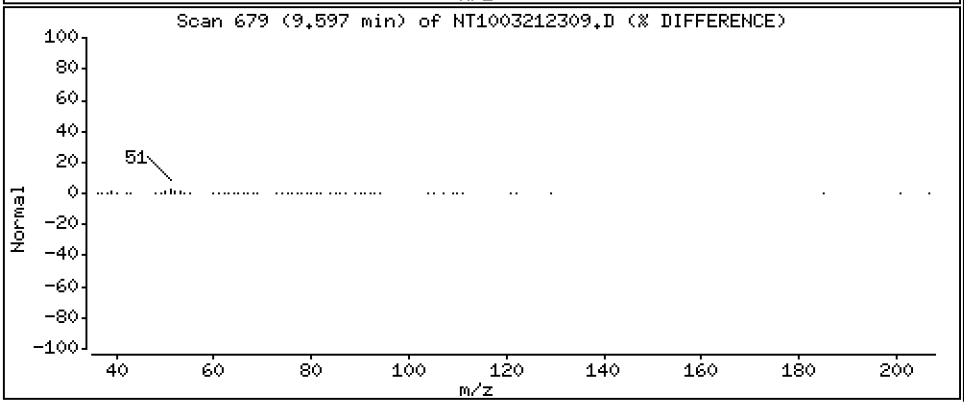
13 2-Methylphenol

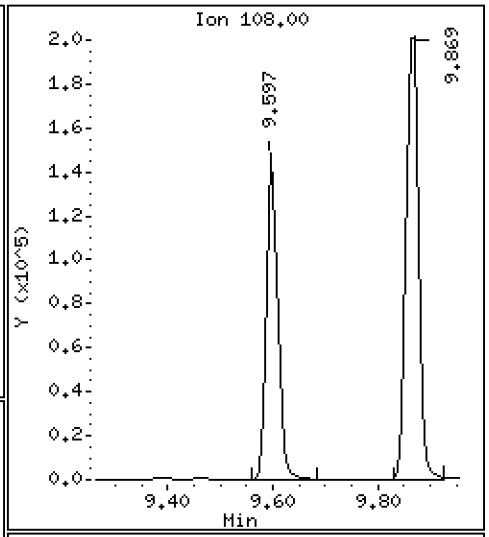
Concentration: 3.921 ug/mL

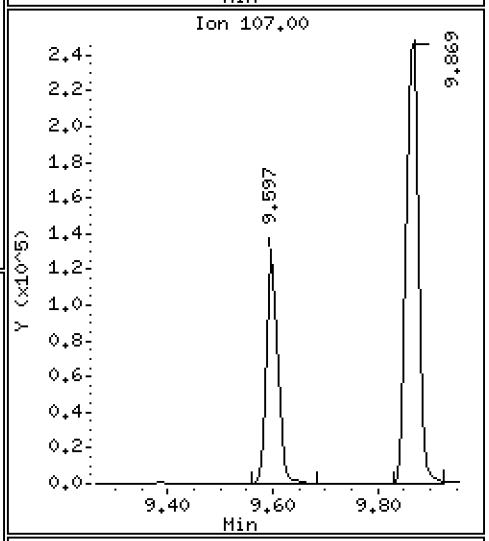


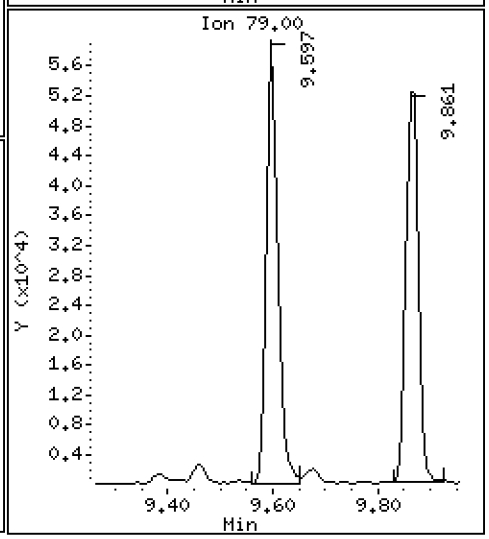












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Date : 21-MAR-2023 22:18

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-SRM1

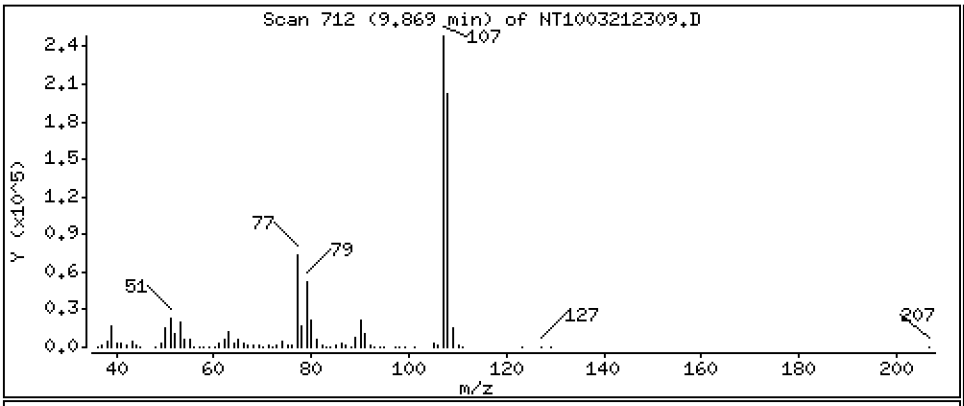
Operator: VTS

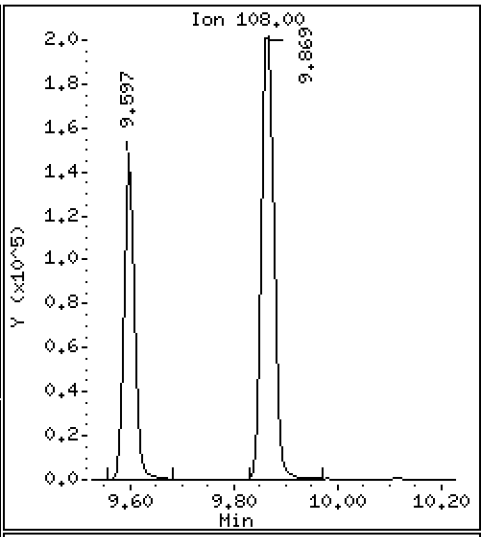
Column phase: ZB-5msi

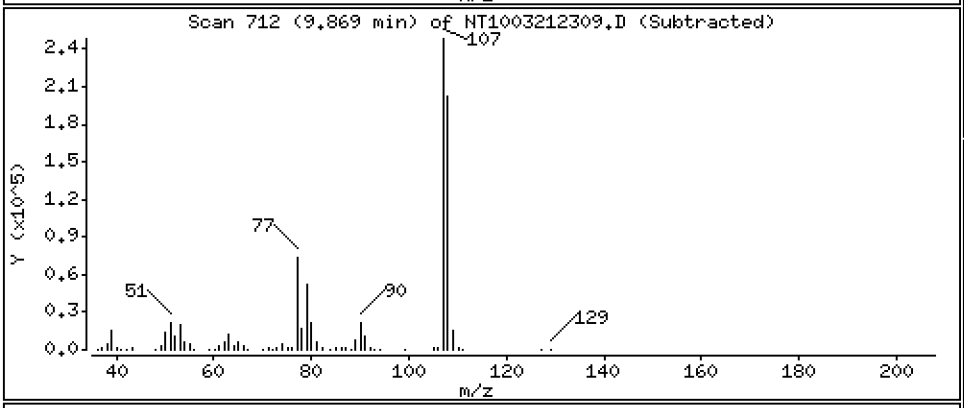
Column diameter: 0.25

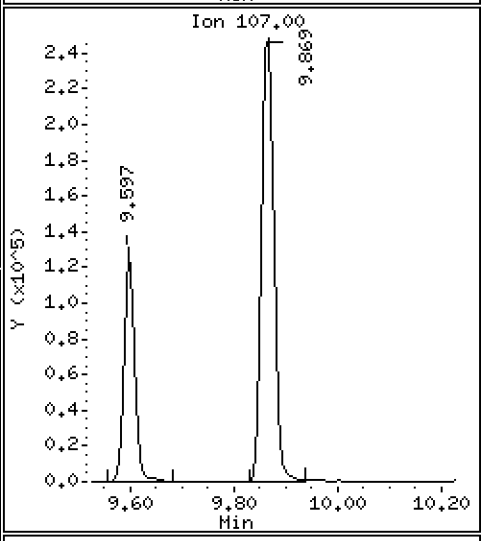
15 4-Methylphenol

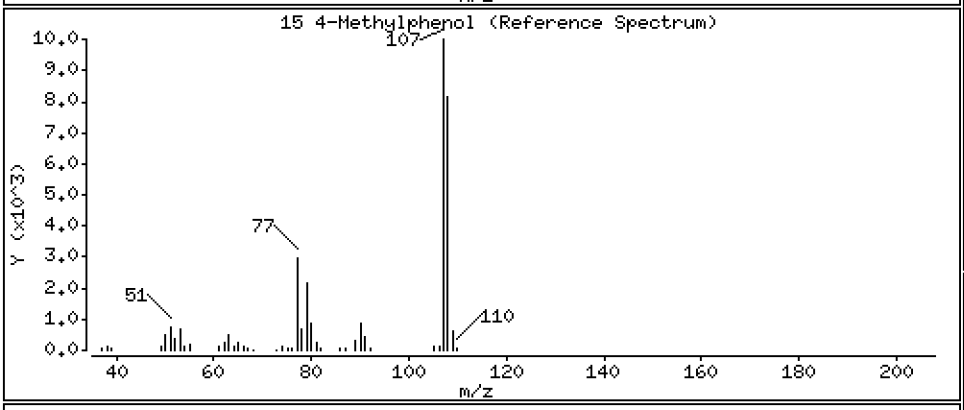
Concentration: 5.624 ug/mL

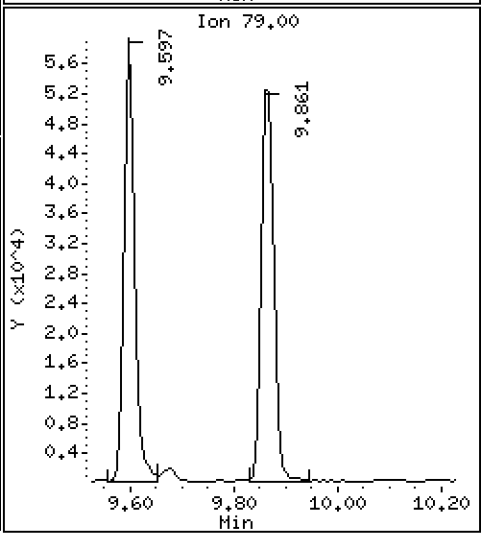


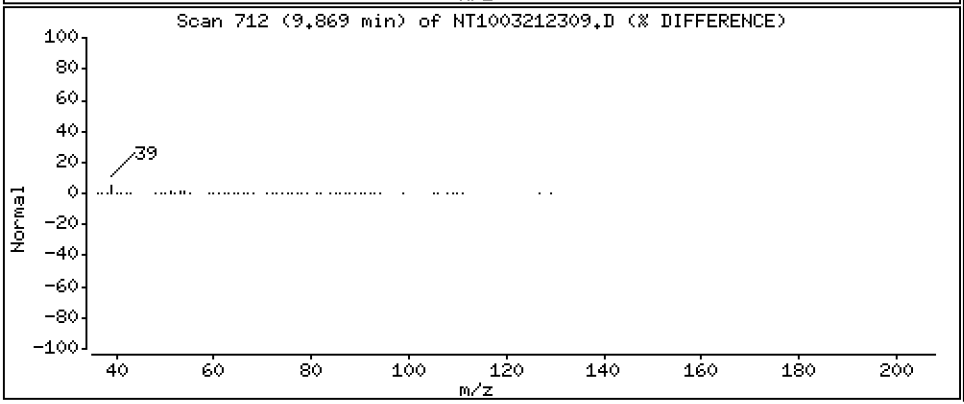












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Date : 21-MAR-2023 22:18

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-SRM1

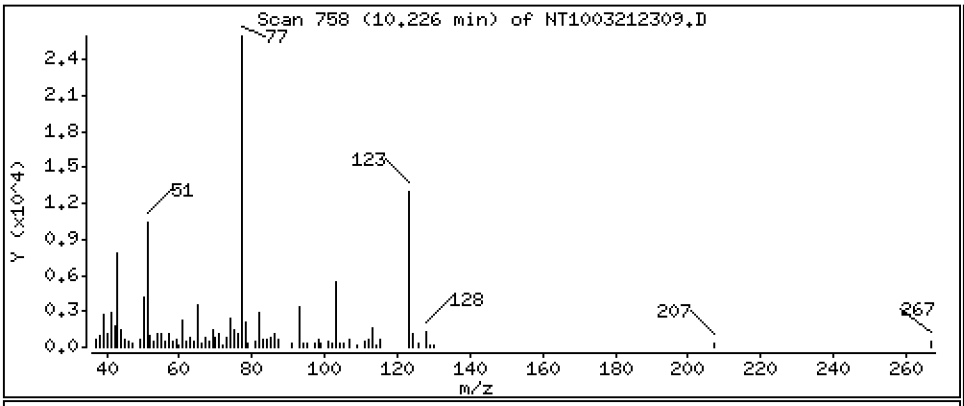
Operator: VTS

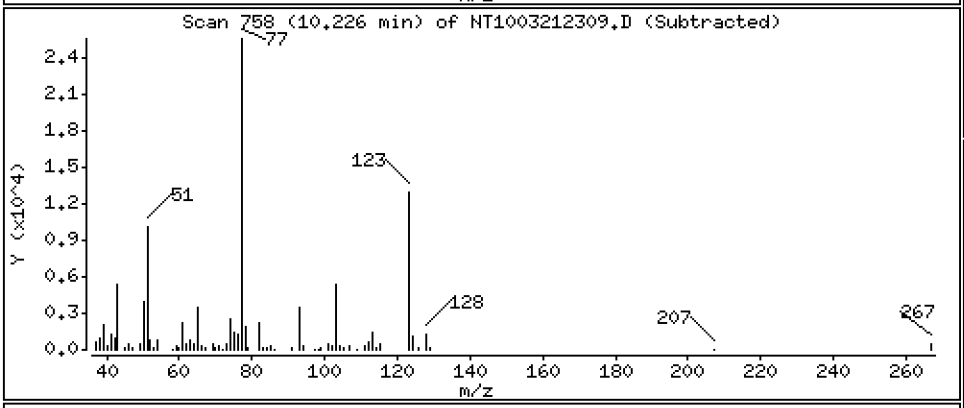
Column phase: ZB-5msi

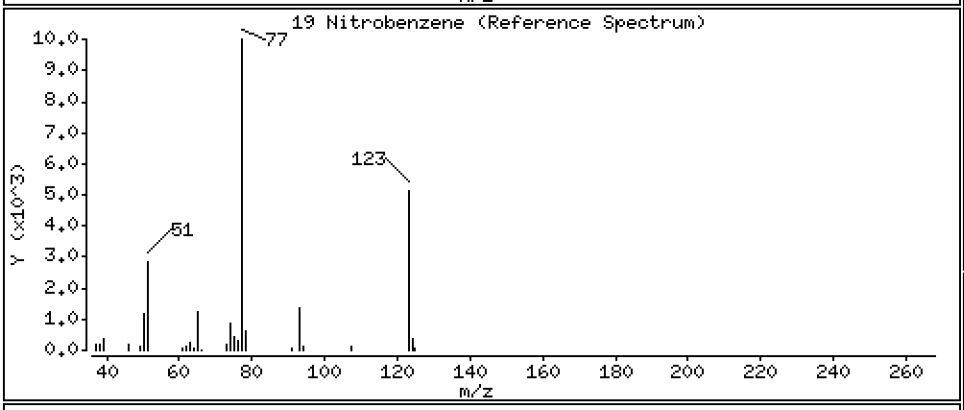
Column diameter: 0.25

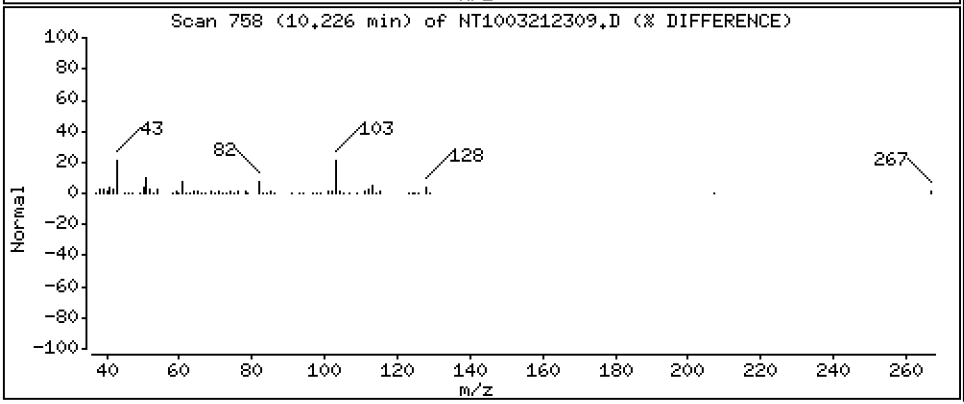
19 Nitrobenzene

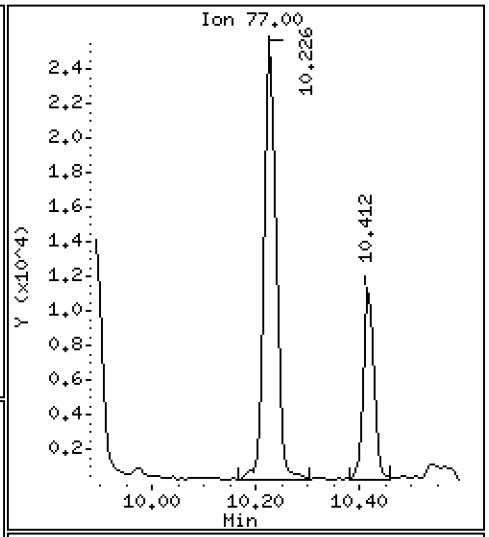
Concentration: 0.6156 ug/mL

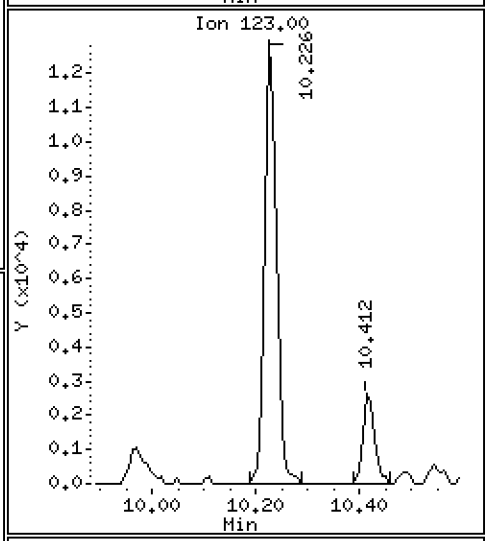


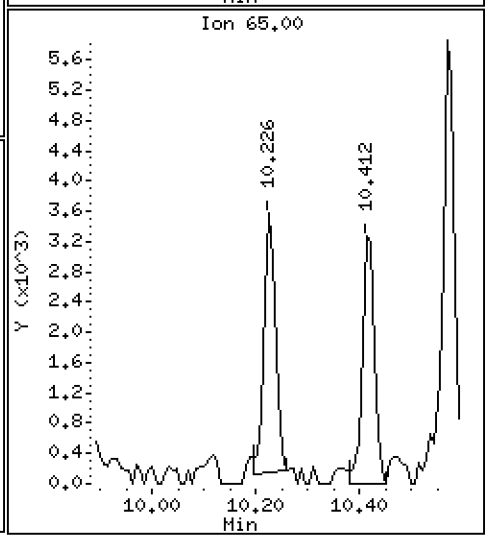












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Date : 21-MAR-2023 22:18

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-SRM1

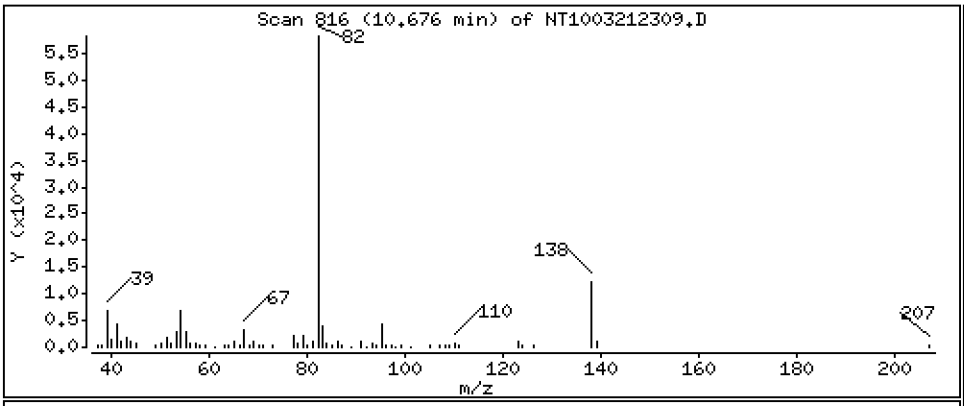
Operator: VTS

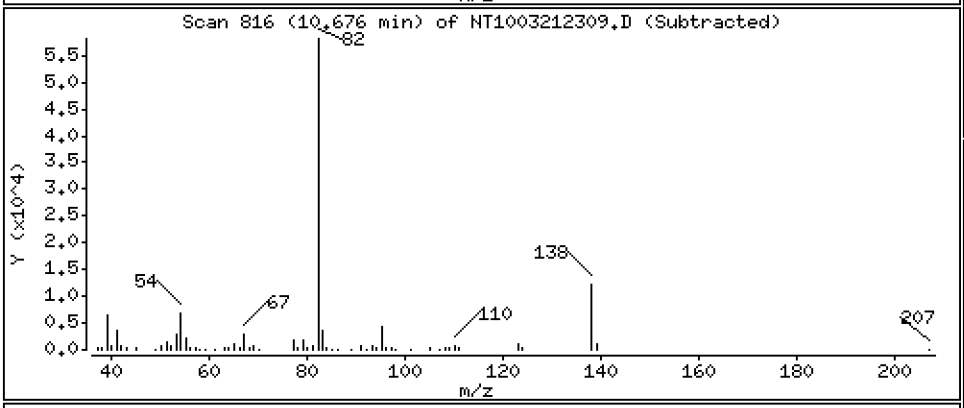
Column phase: ZB-5msi

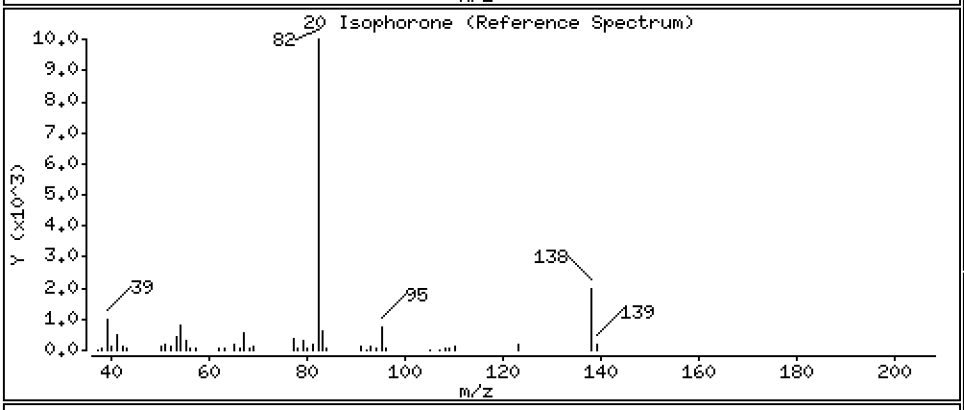
Column diameter: 0.25

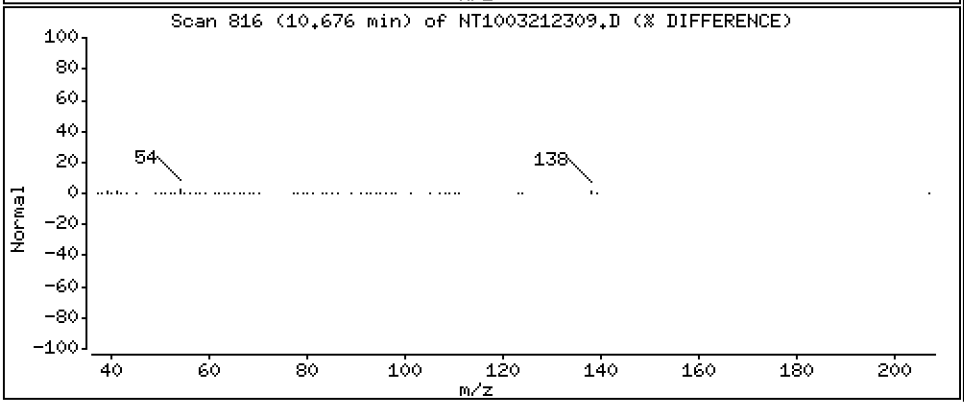
20 Isophorone

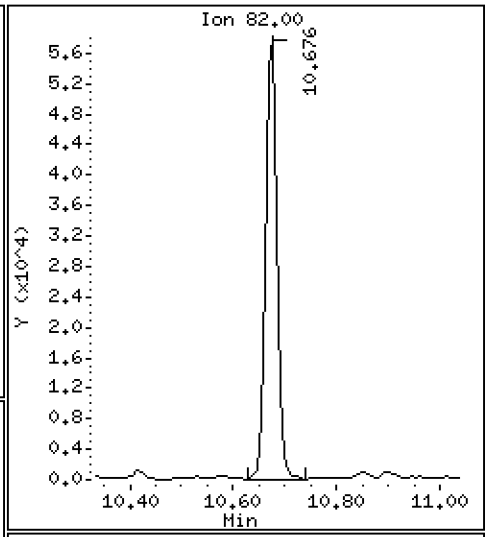
Concentration: 1.116 ug/mL

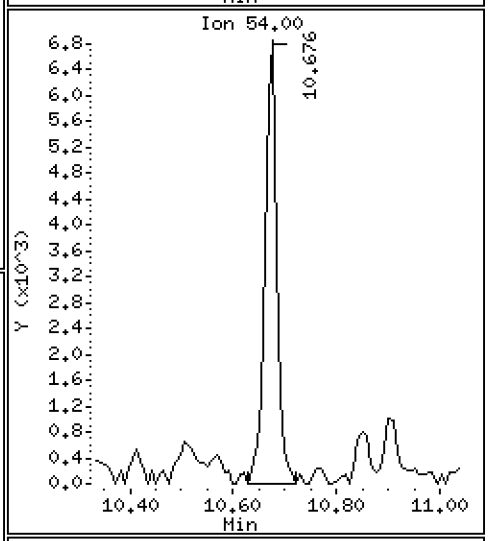


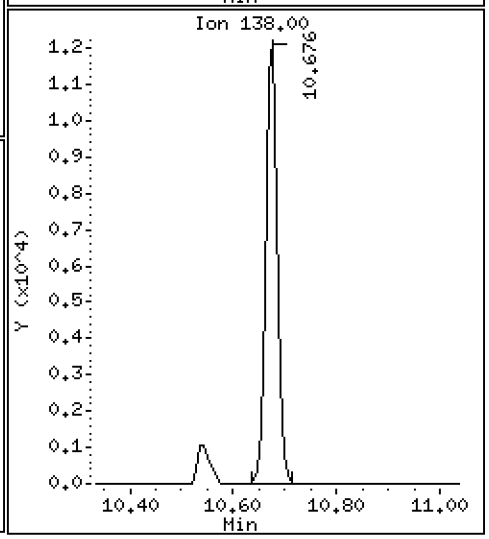












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Date : 21-MAR-2023 22:18

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-SRM1

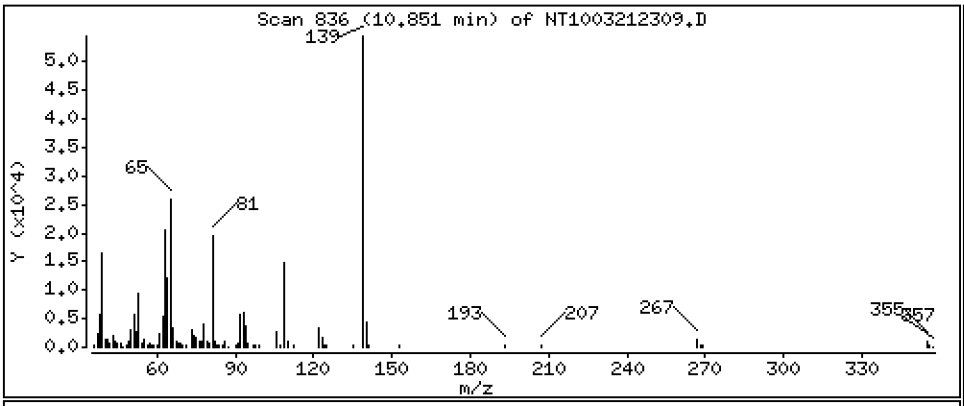
Operator: VTS

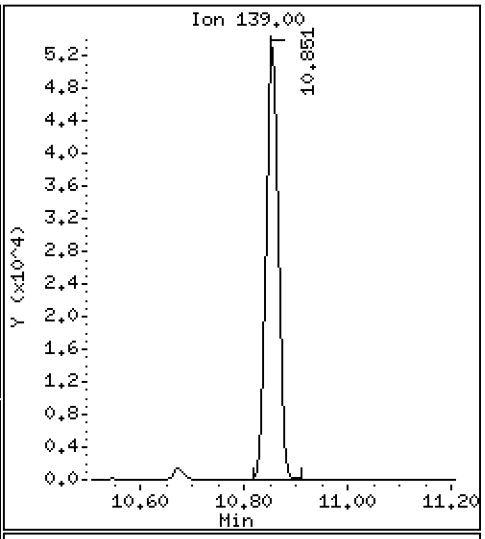
Column phase: ZB-5msi

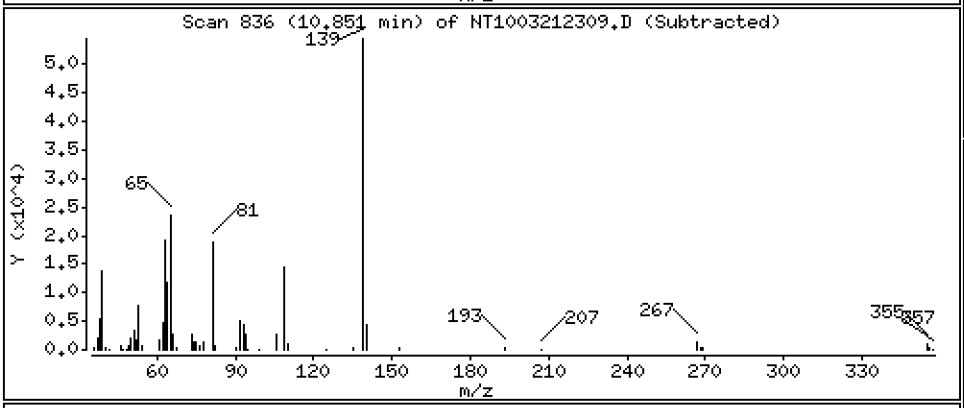
Column diameter: 0.25

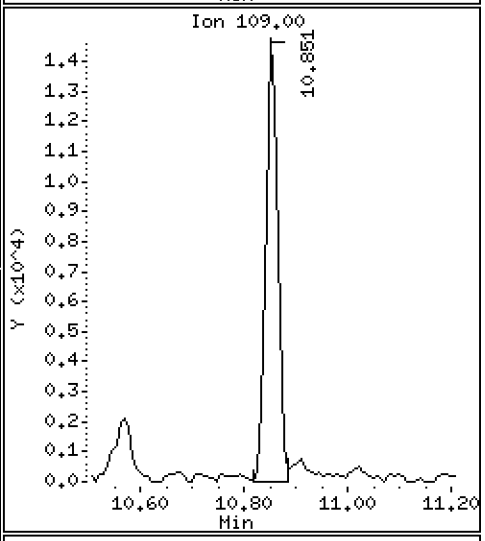
21 2-Nitrophenol

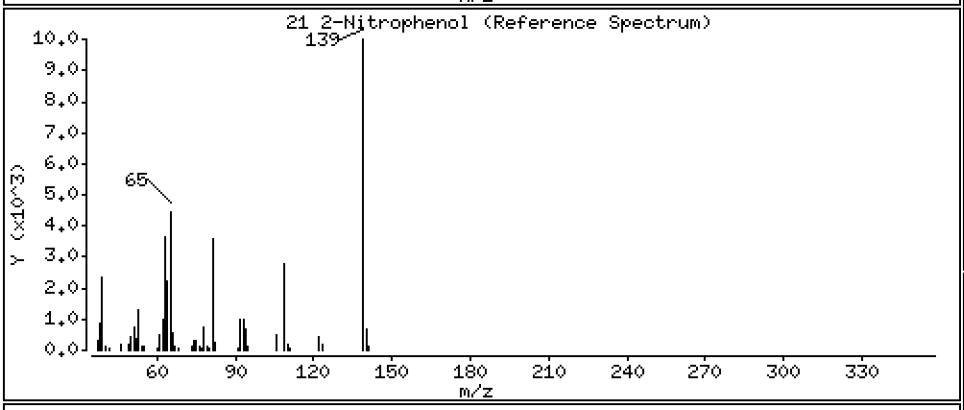
Concentration: 2.759 ug/mL

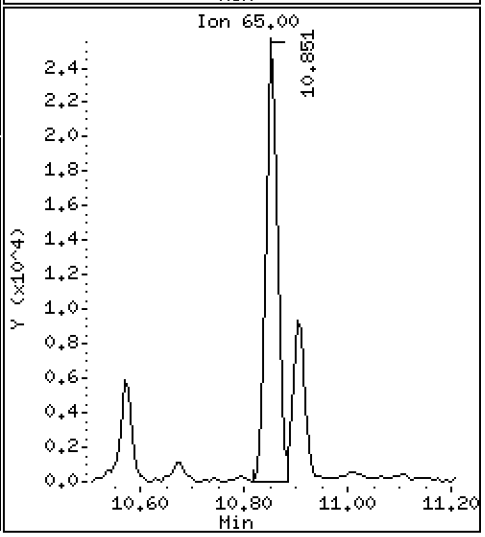


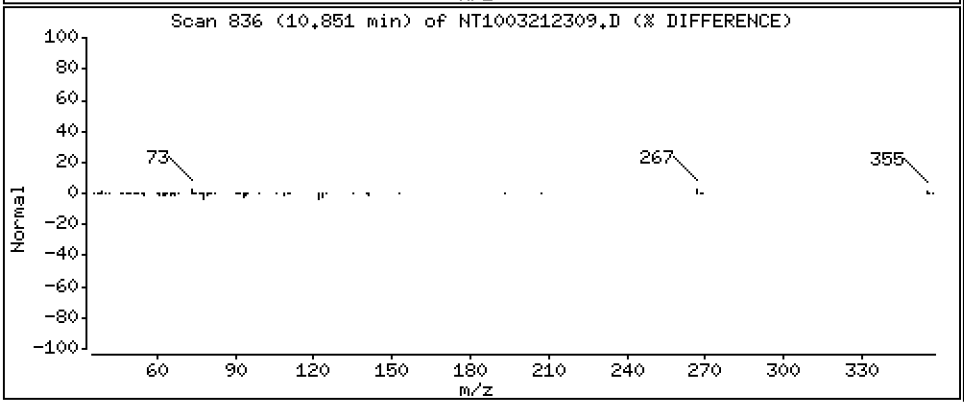












Date : 21-MAR-2023 22:18

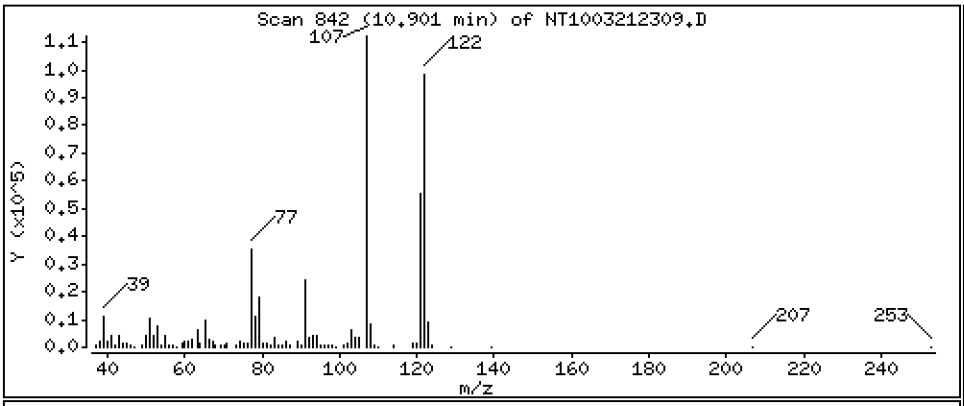
Client ID: Instrument: nt10.i

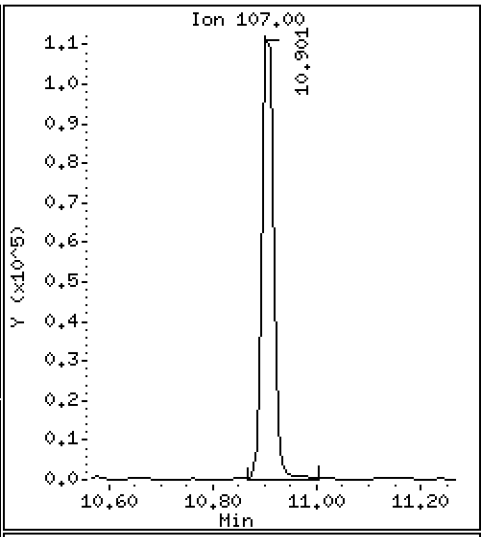
Sample Info: BLC0109-SRM1

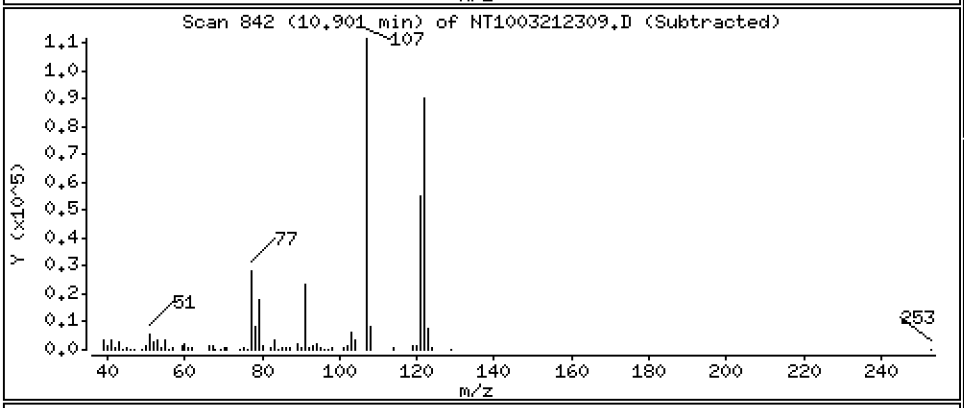
Operator: VTS

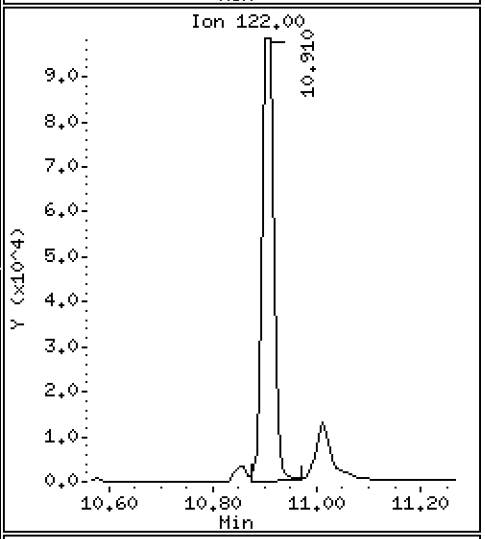
Column phase: ZB-5msi Column diameter: 0.25

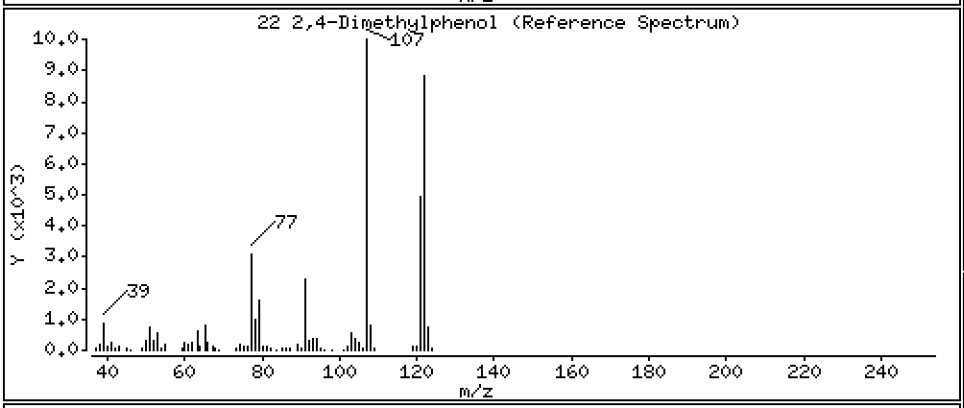
22 2,4-Dimethylphenol Concentration: 2.946 ug/mL

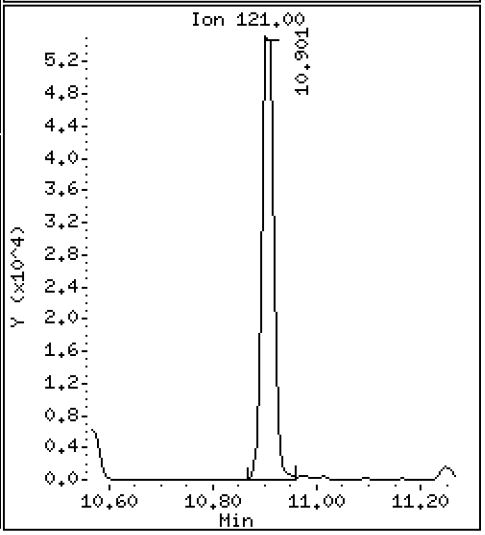


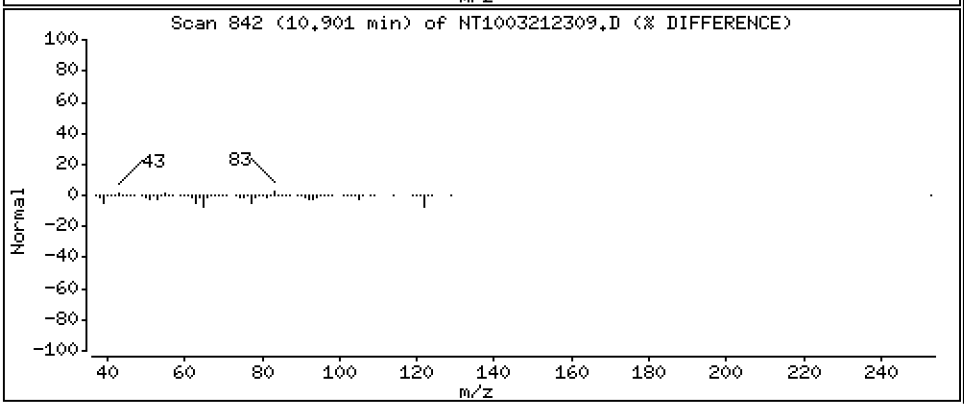












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Date : 21-MAR-2023 22:18

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-SRM1

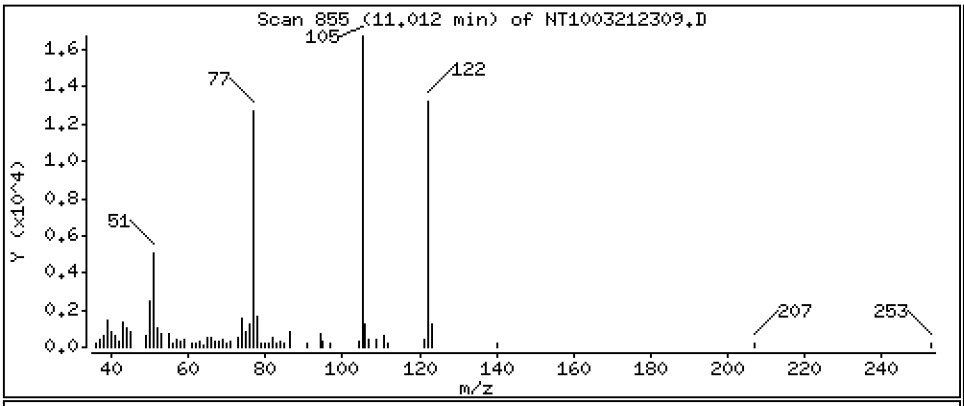
Operator: VTS

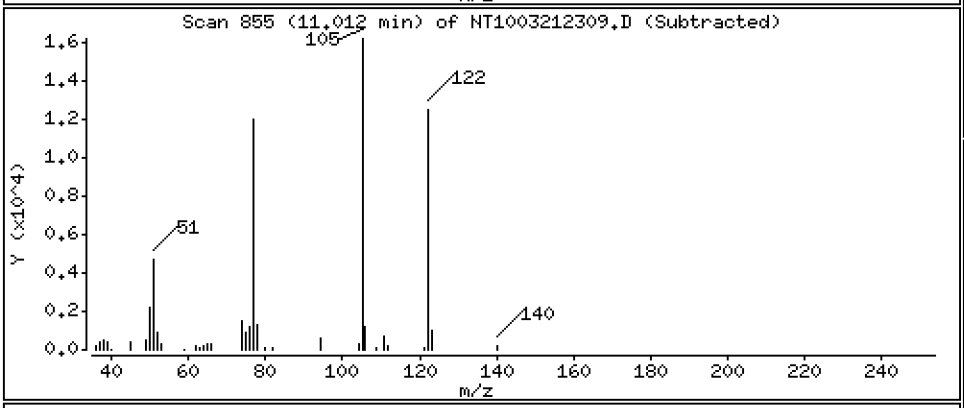
Column phase: ZB-5msi

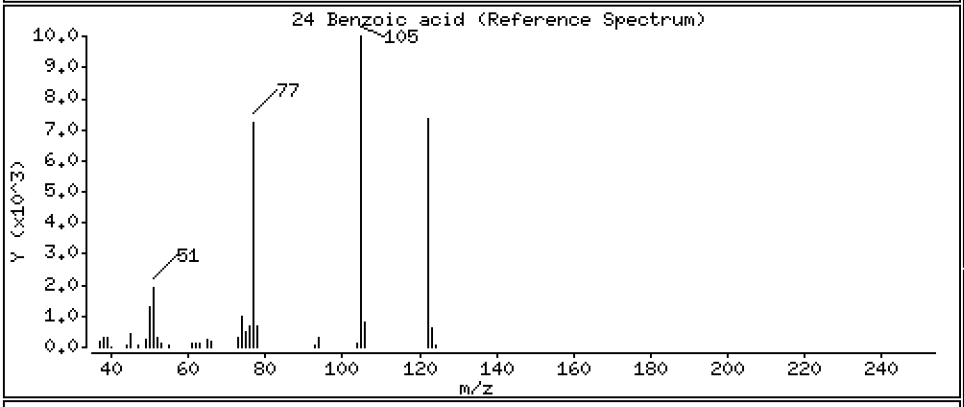
Column diameter: 0.25

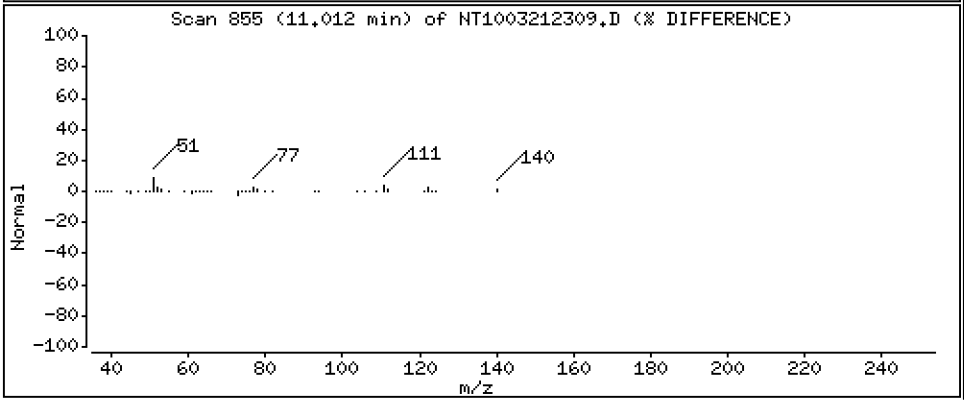
24 Benzoic acid

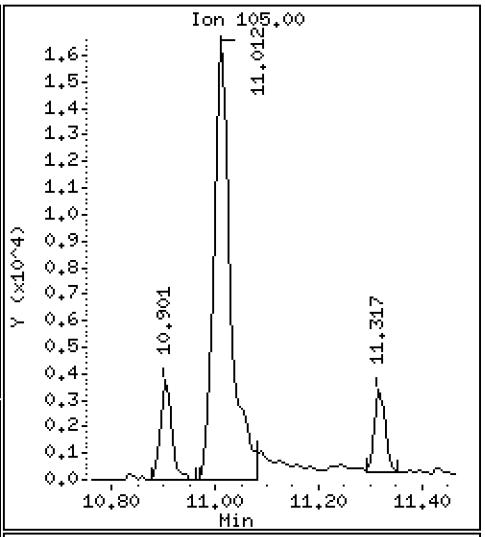
Concentration: 1.114 ug/mL

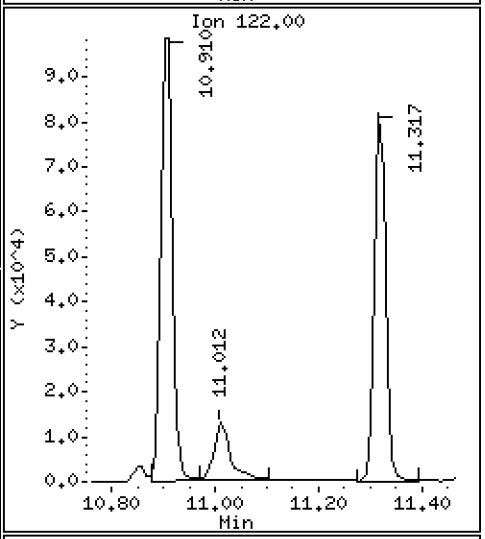


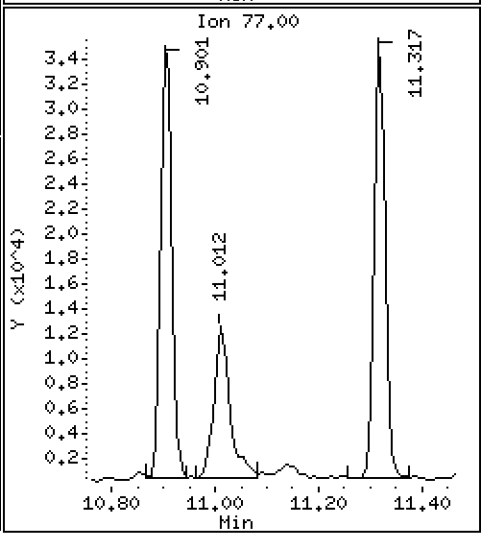












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Date : 21-MAR-2023 22:18

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-SRM1

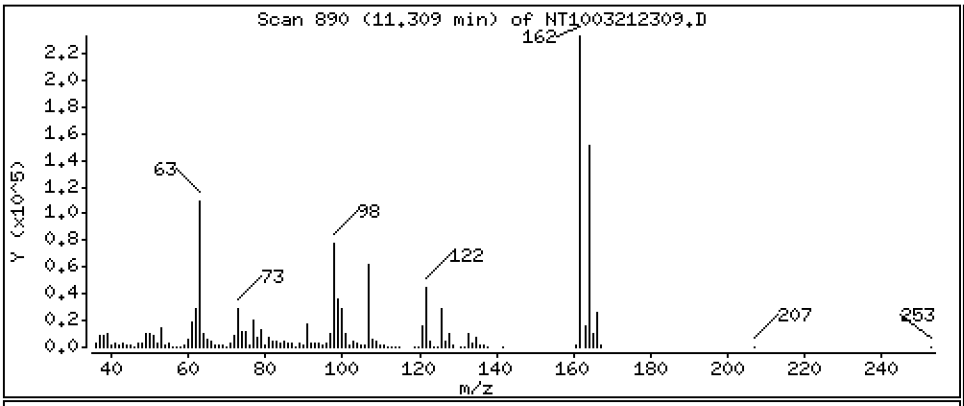
Operator: VTS

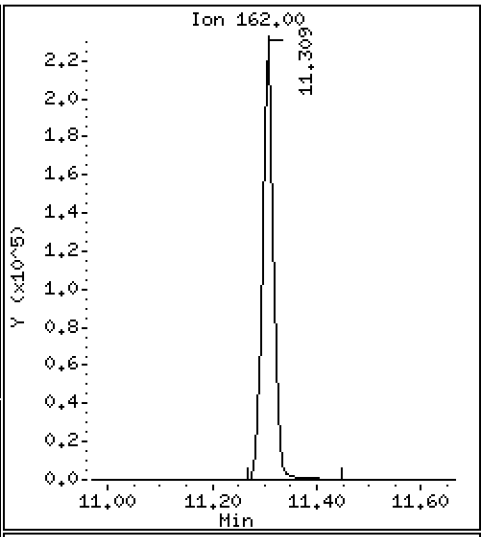
Column phase: ZB-5msi

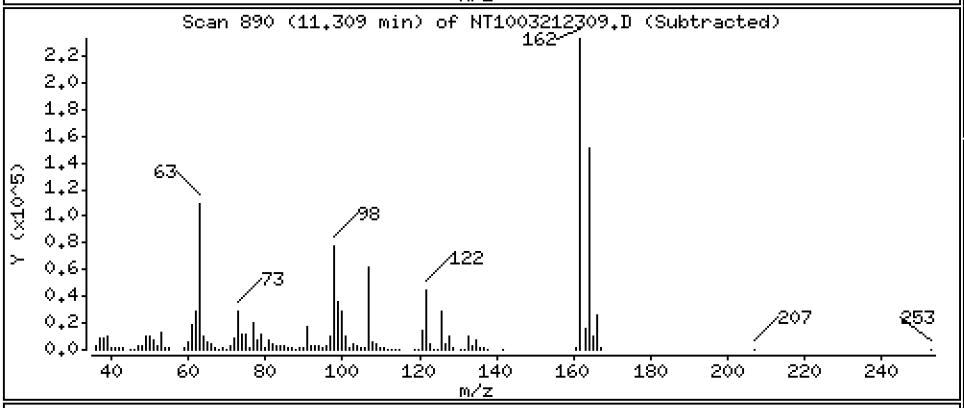
Column diameter: 0.25

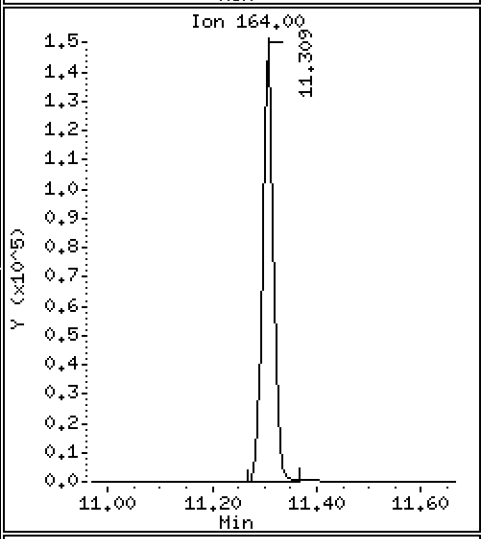
25 2,4-Dichlorophenol

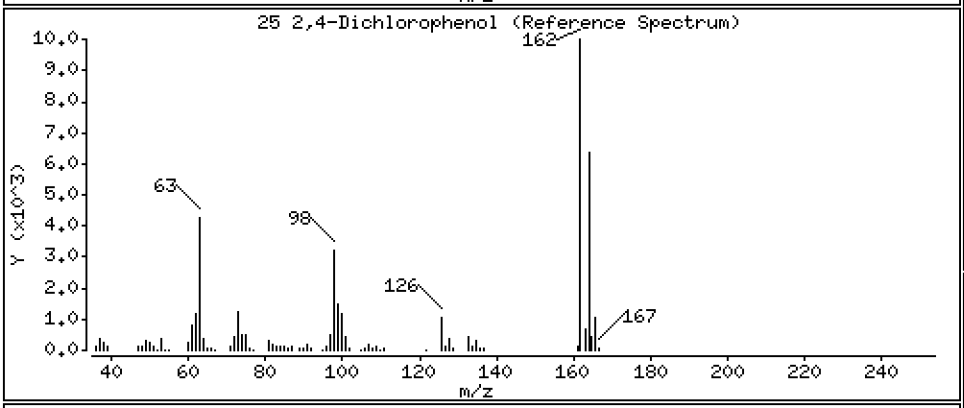
Concentration: 7.918 ug/mL

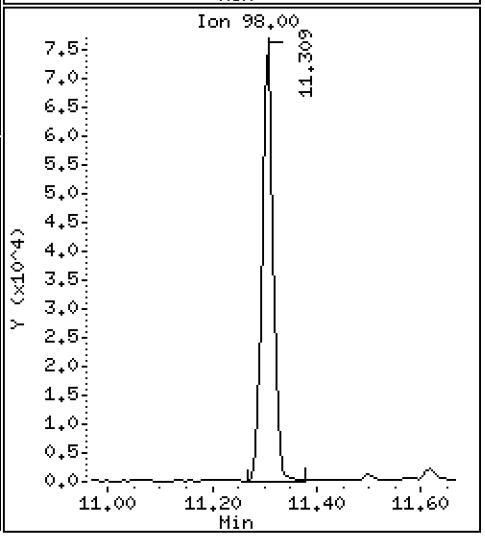


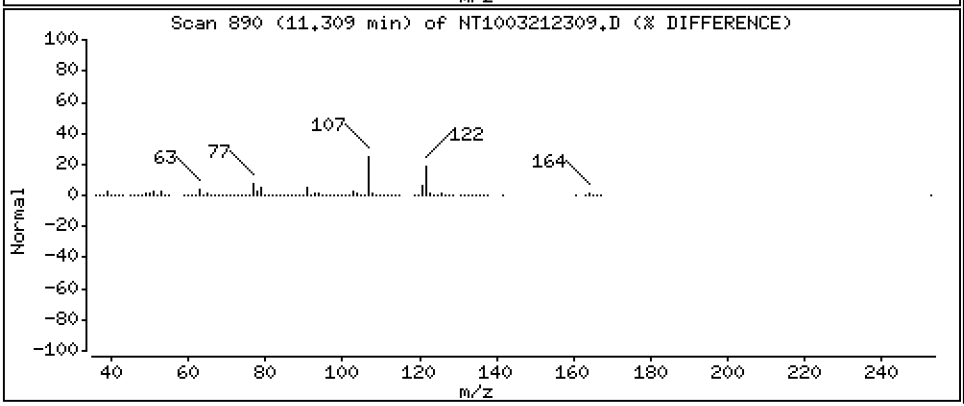












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Date : 21-MAR-2023 22:18

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-SRM1

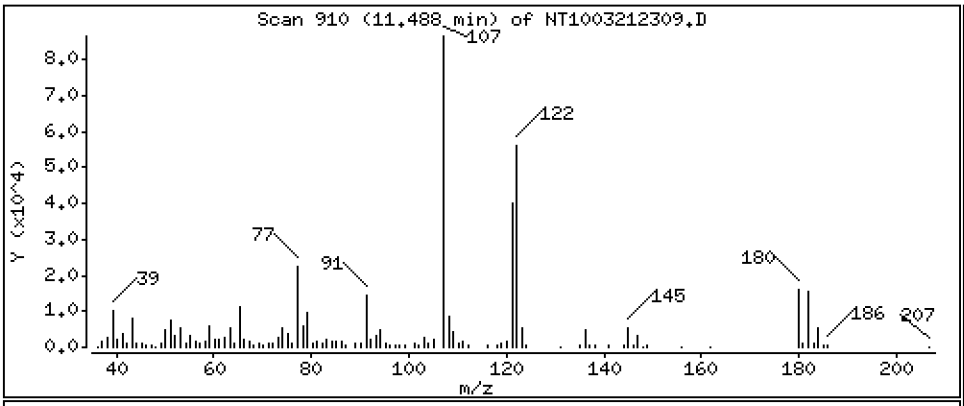
Operator: VTS

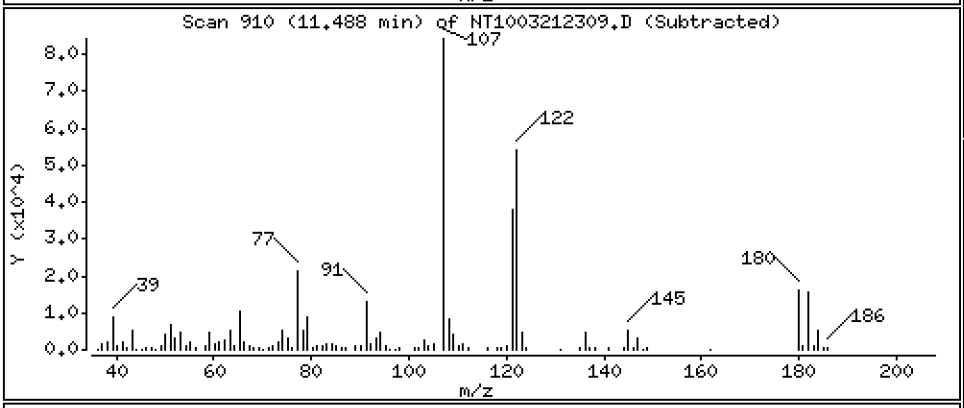
Column phase: ZB-5msi

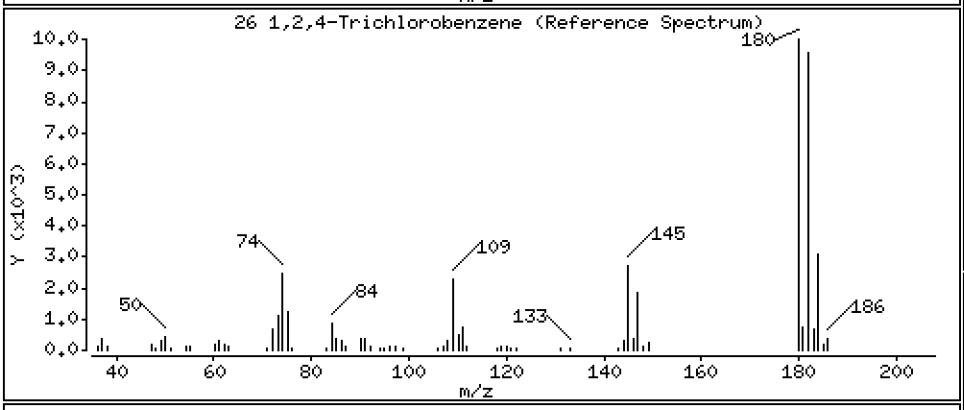
Column diameter: 0.25

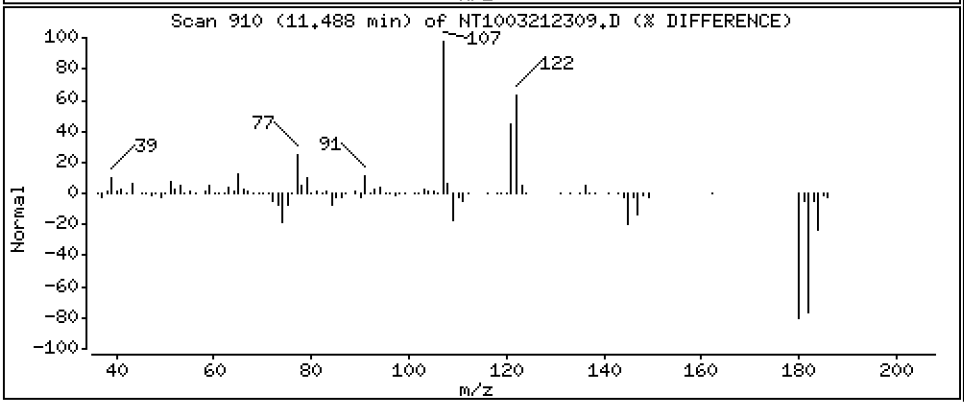
26 1,2,4-Trichlorobenzene

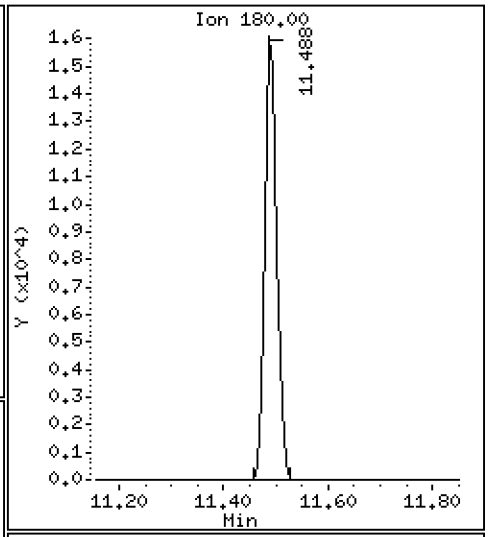
Concentration: 0.4554 ug/mL

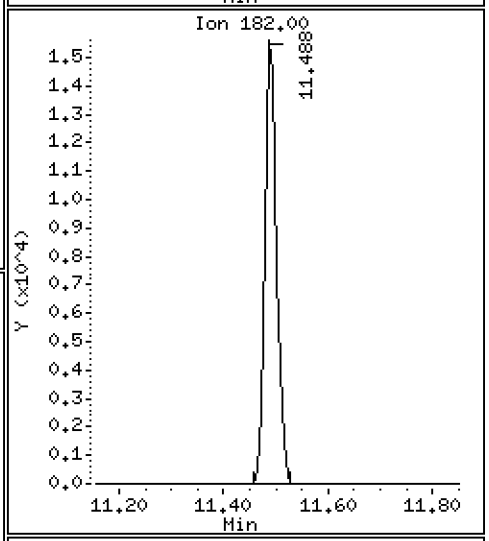


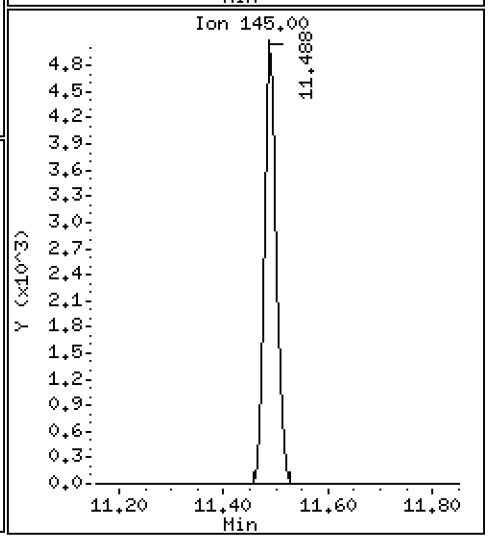












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212309.D

Date : 21-MAR-2023 22:18

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-SRM1

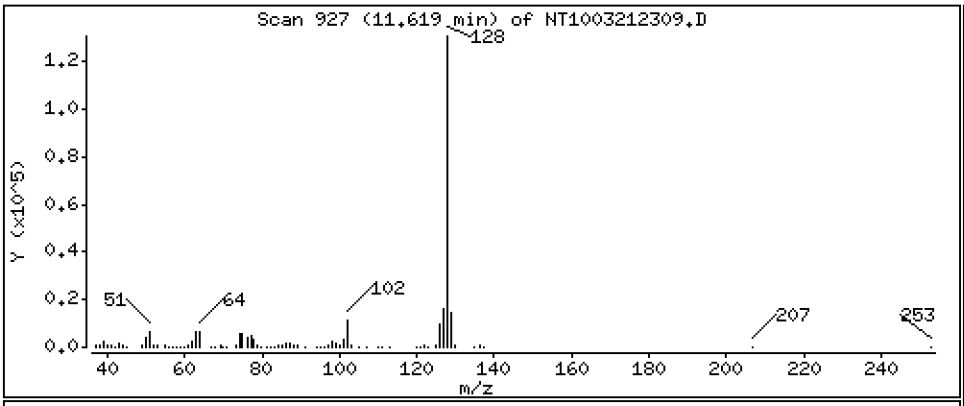
Operator: VTS

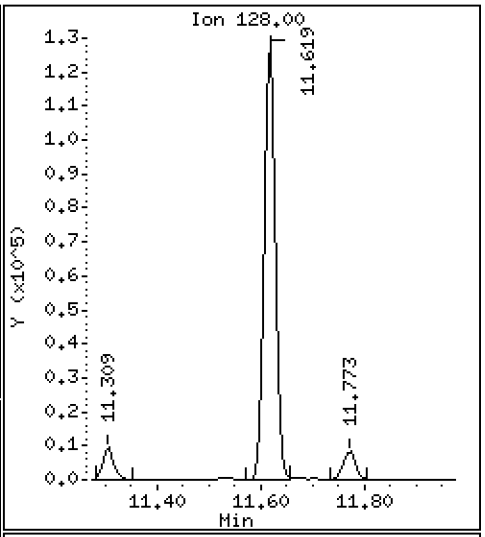
Column phase: ZB-5msi

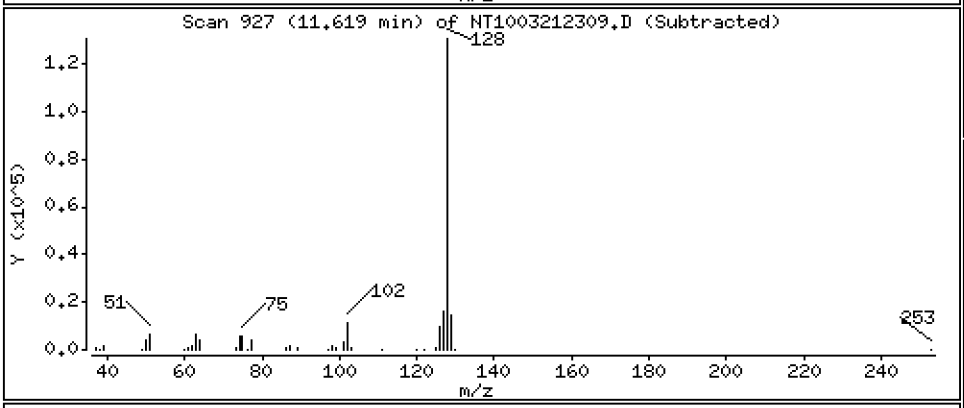
Column diameter: 0.25

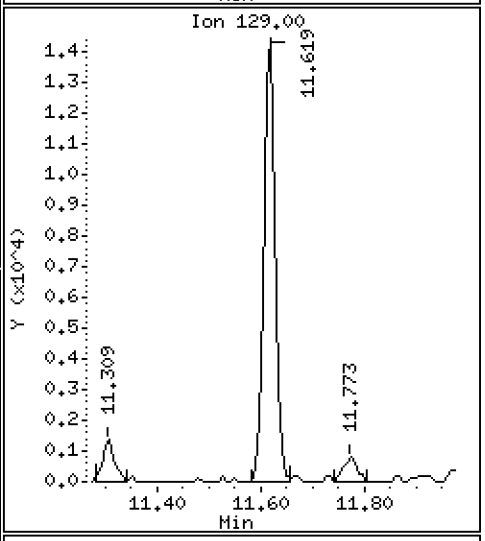
28 Naphthalene

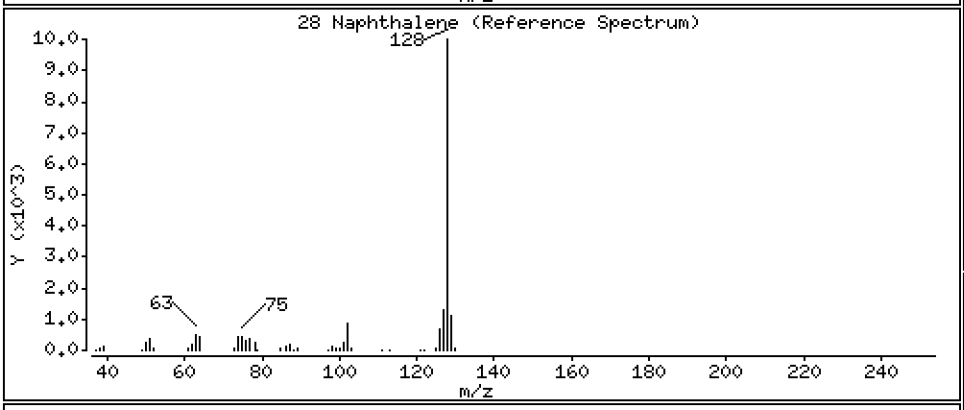
Concentration: 1.151 ug/mL

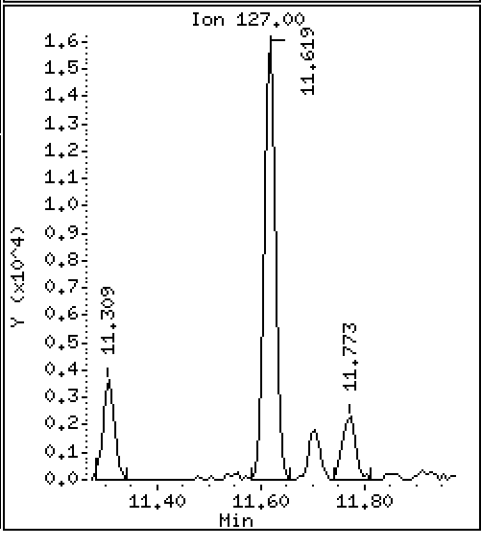


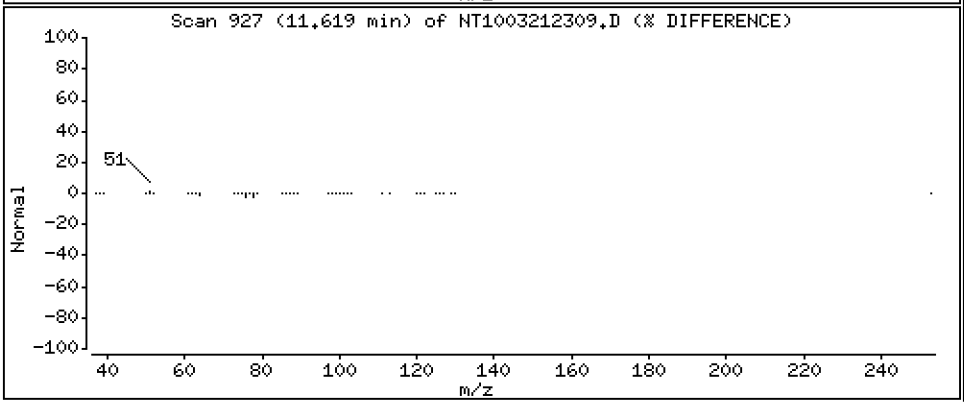












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Date : 21-MAR-2023 22:18

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-SRM1

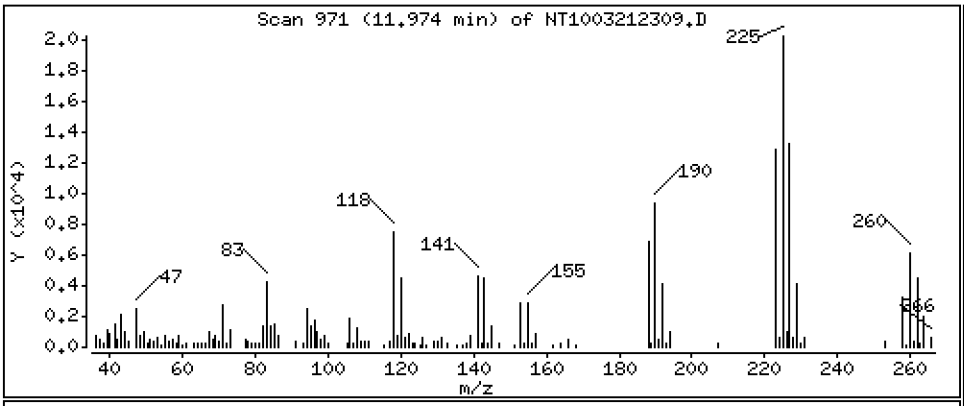
Operator: VTS

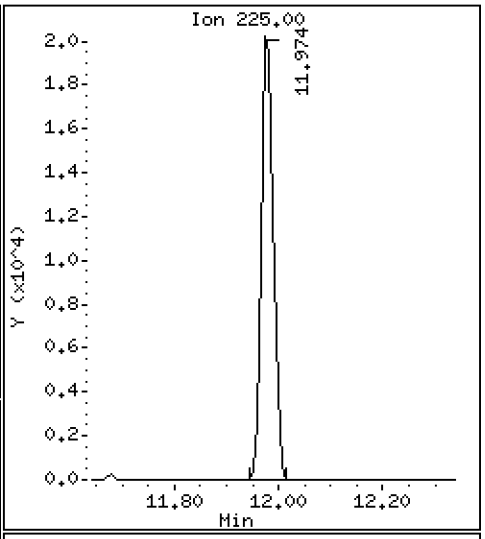
Column phase: ZB-5msi

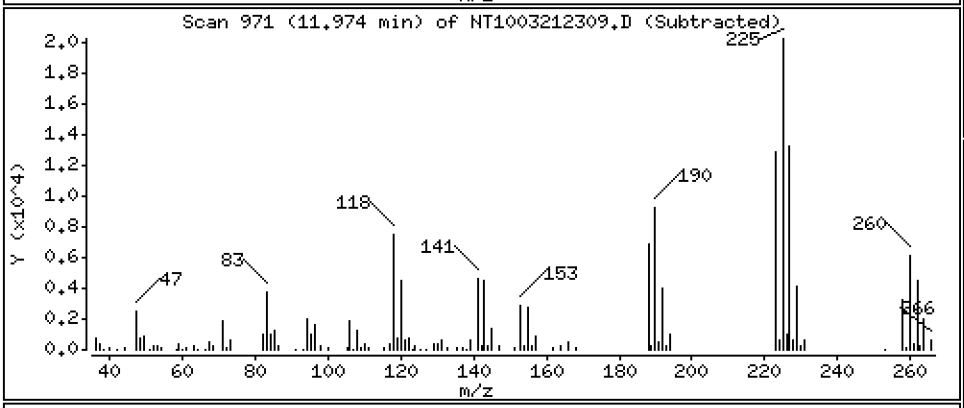
Column diameter: 0.25

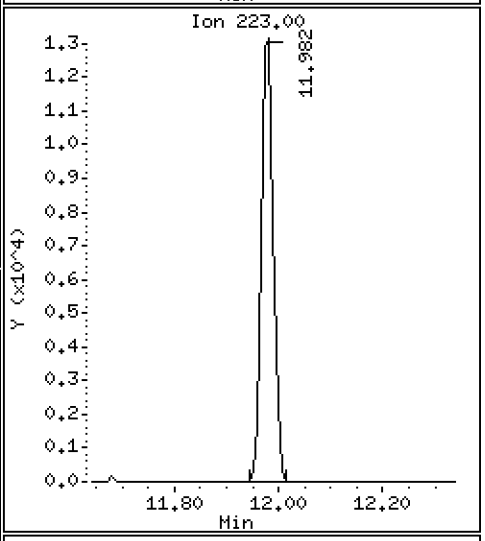
30 Hexachlorobutadiene

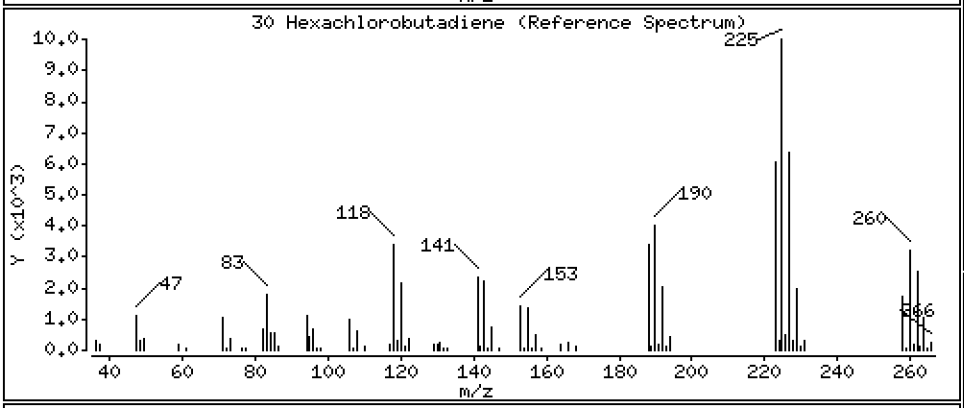
Concentration: 0.9846 ug/mL

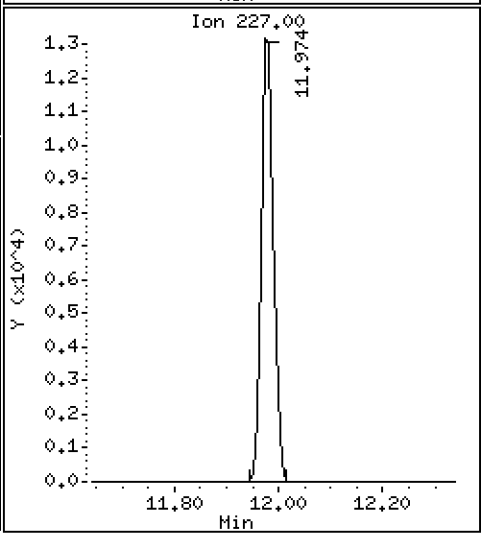


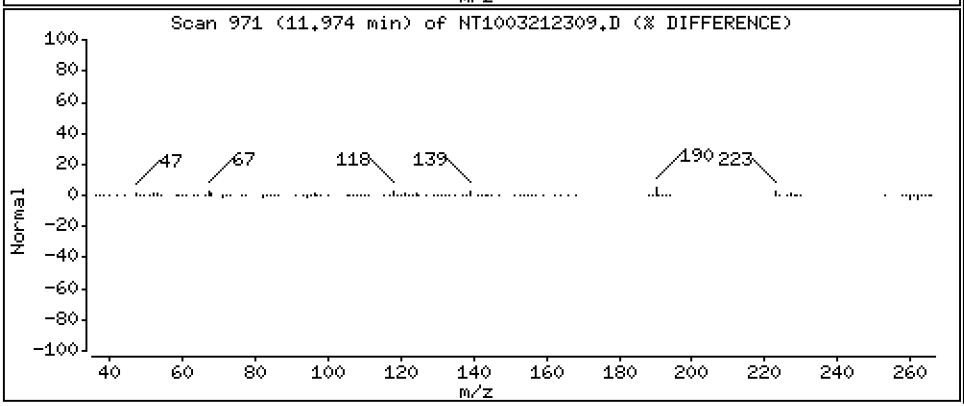












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Date : 21-MAR-2023 22:18

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-SRM1

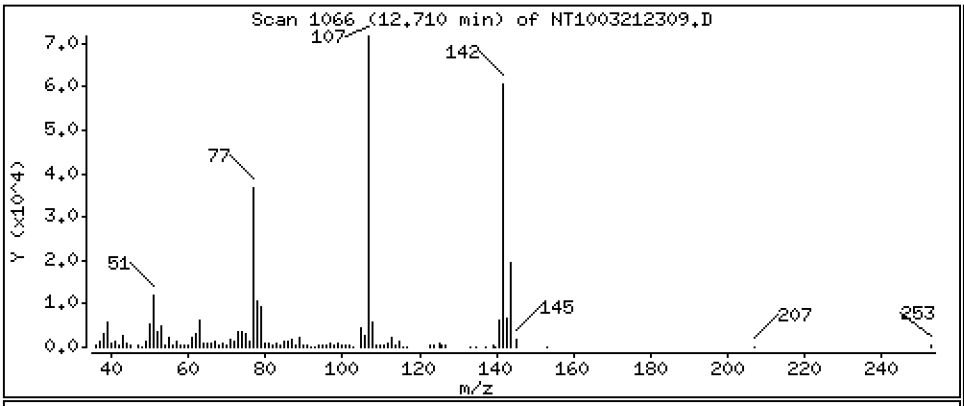
Operator: VTS

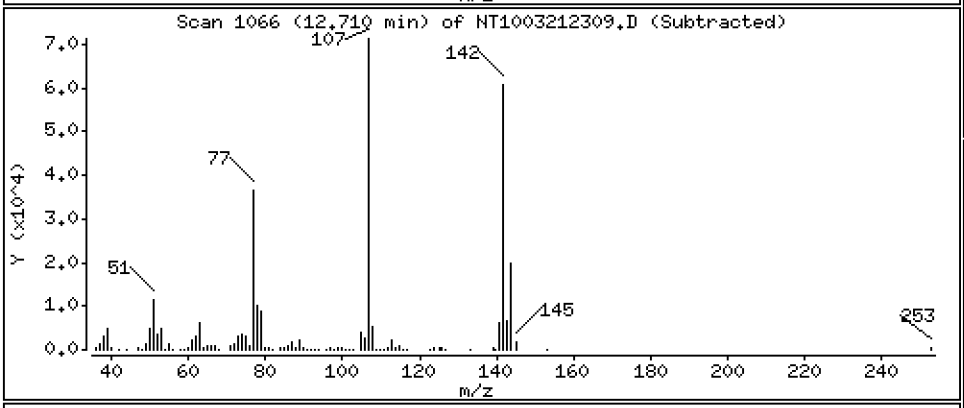
Column phase: ZB-5msi

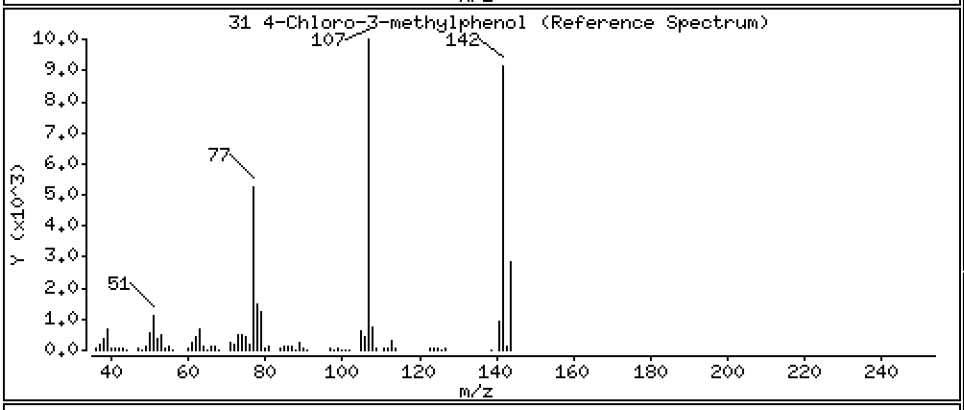
Column diameter: 0.25

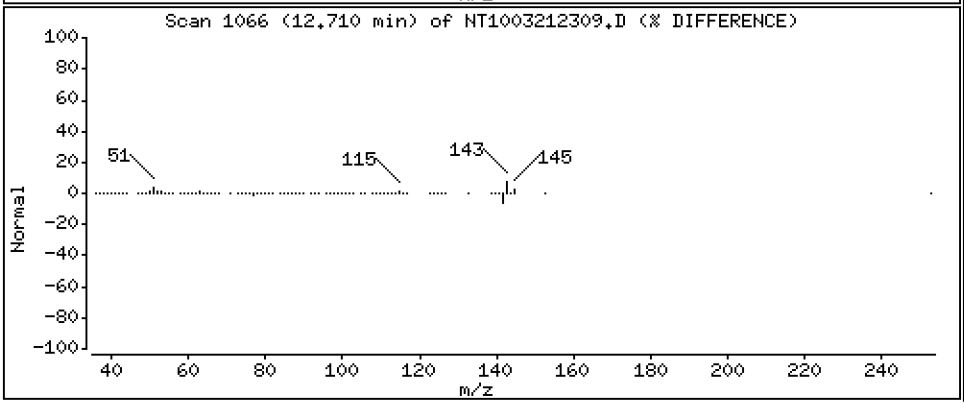
31 4-Chloro-3-methylphenol

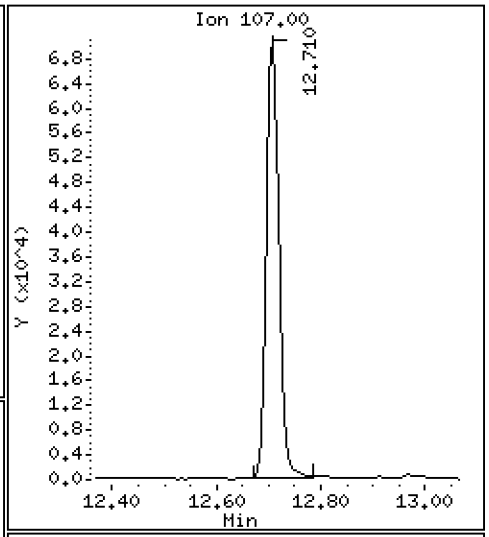
Concentration: 2.185 ug/mL

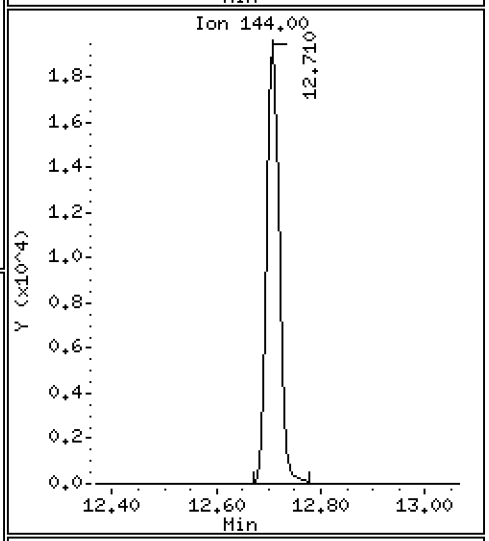


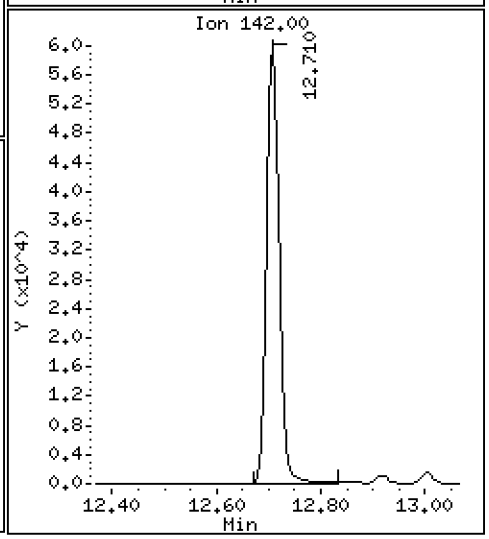












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Date : 21-MAR-2023 22:18

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-SRM1

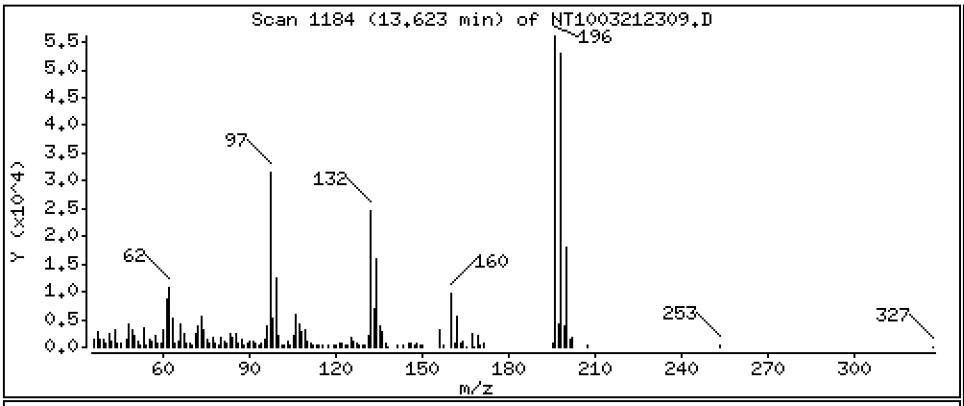
Operator: VTS

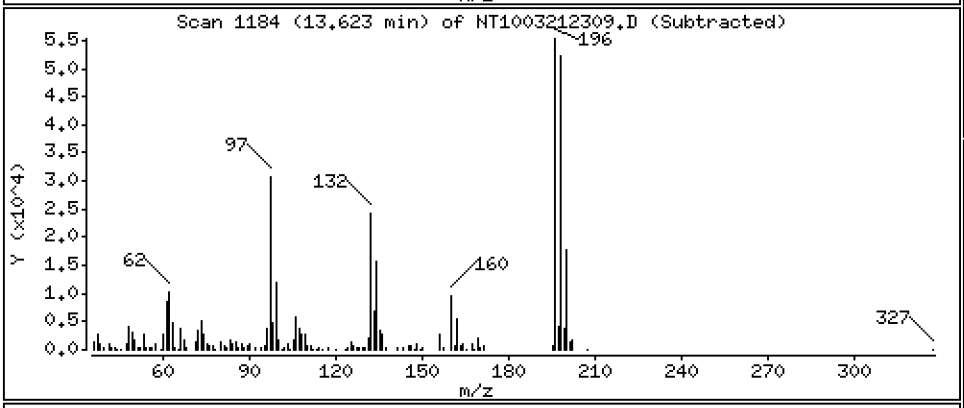
Column phase: ZB-5msi

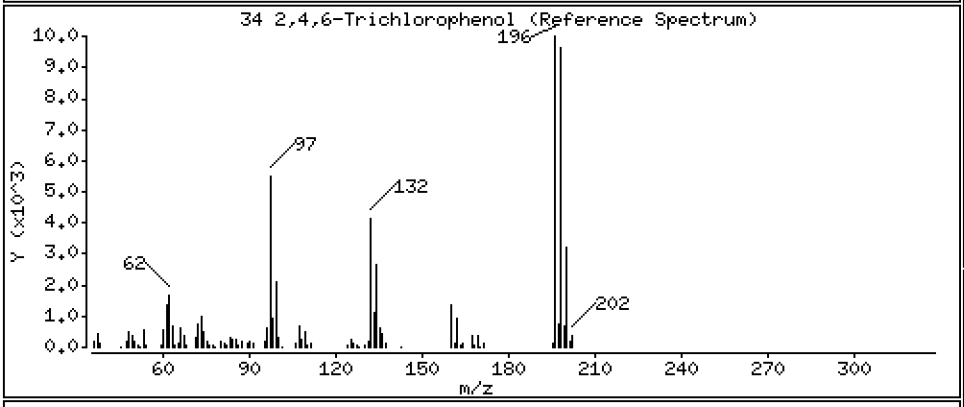
Column diameter: 0.25

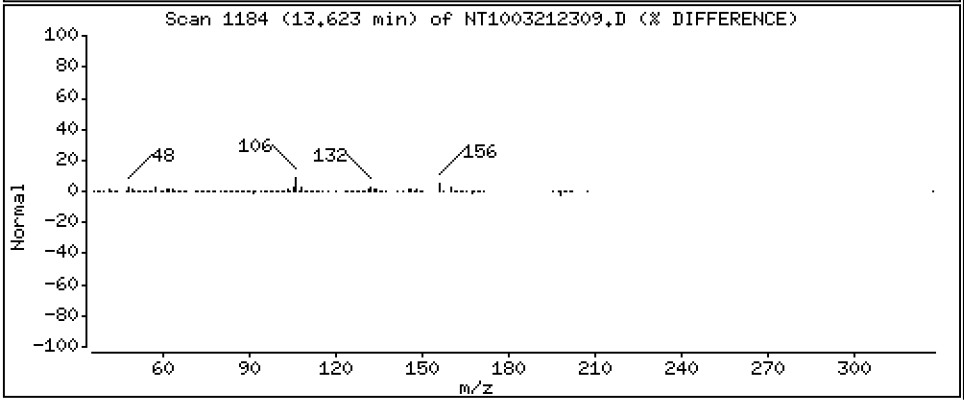
34 2,4,6-Trichlorophenol

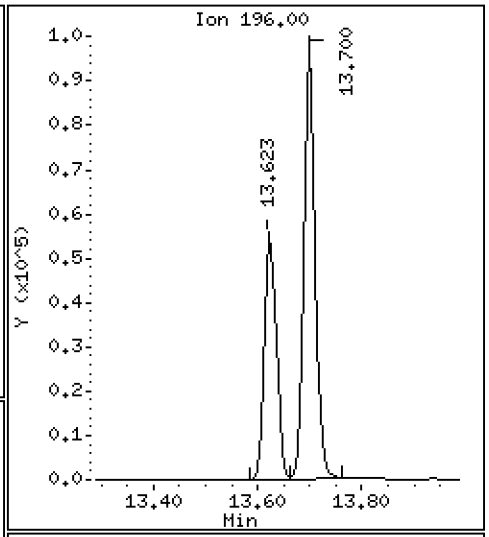
Concentration: 2.348 ug/mL

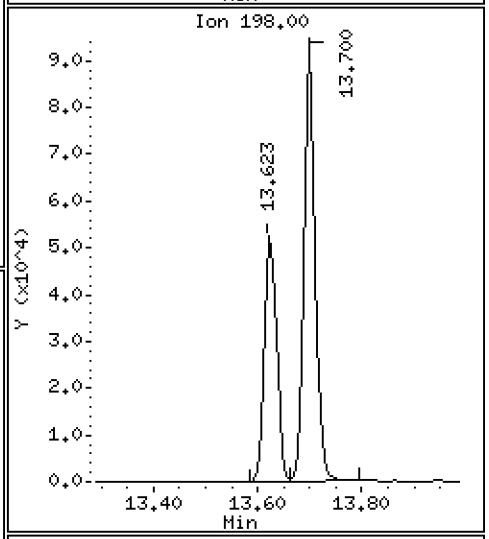


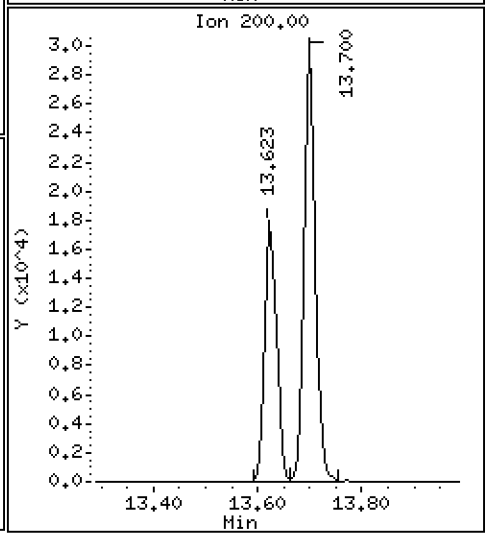












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Date : 21-MAR-2023 22:18

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-SRM1

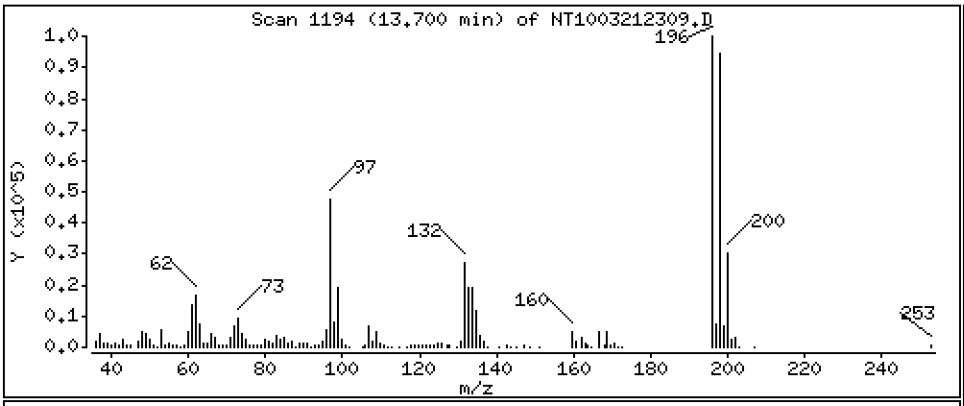
Operator: VTS

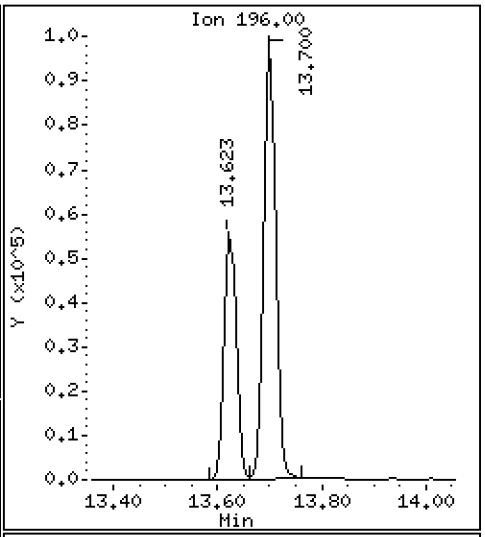
Column phase: ZB-5msi

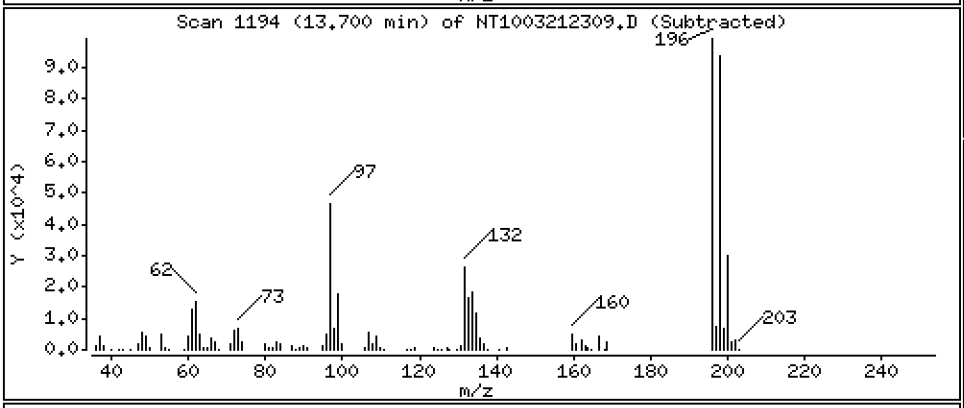
Column diameter: 0.25

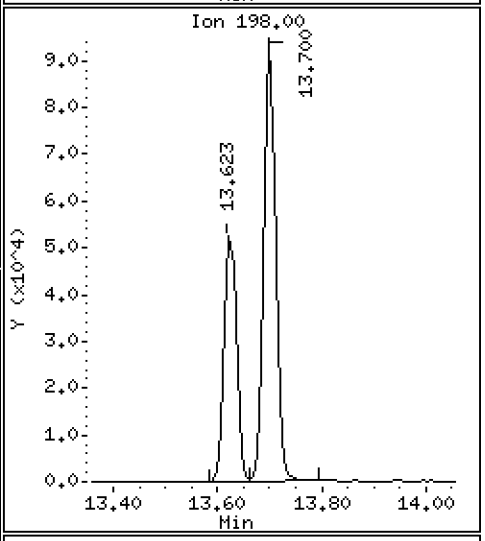
35 2,4,5-Trichlorophenol

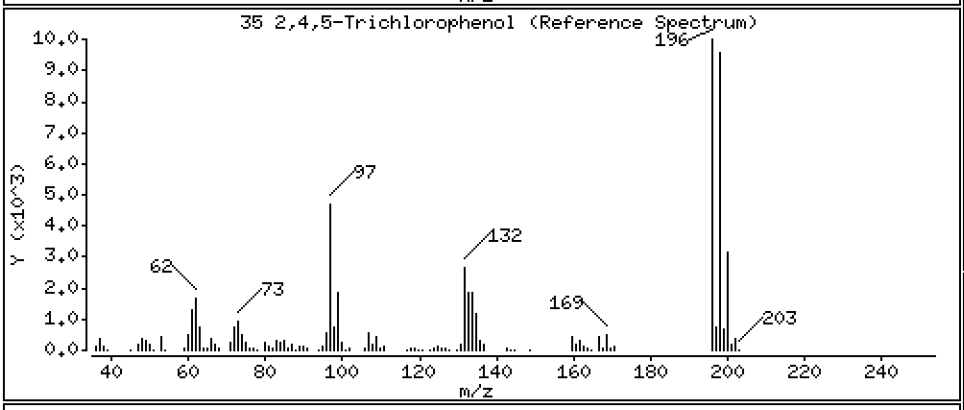
Concentration: 3.594 ug/mL

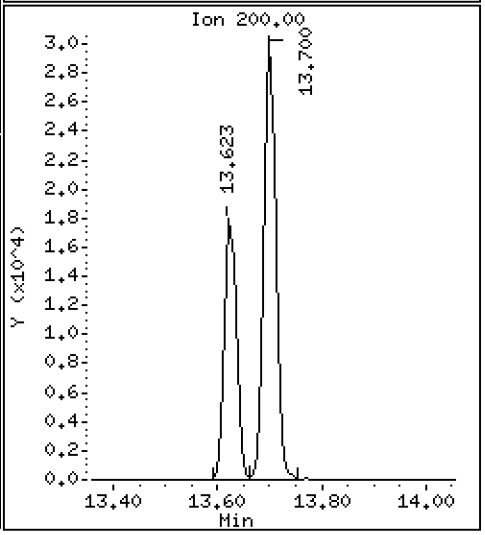


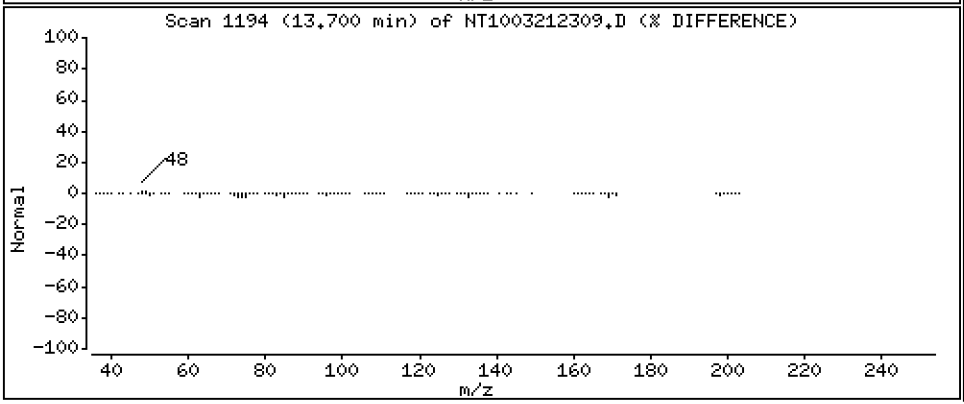












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Date : 21-MAR-2023 22:18

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-SRM1

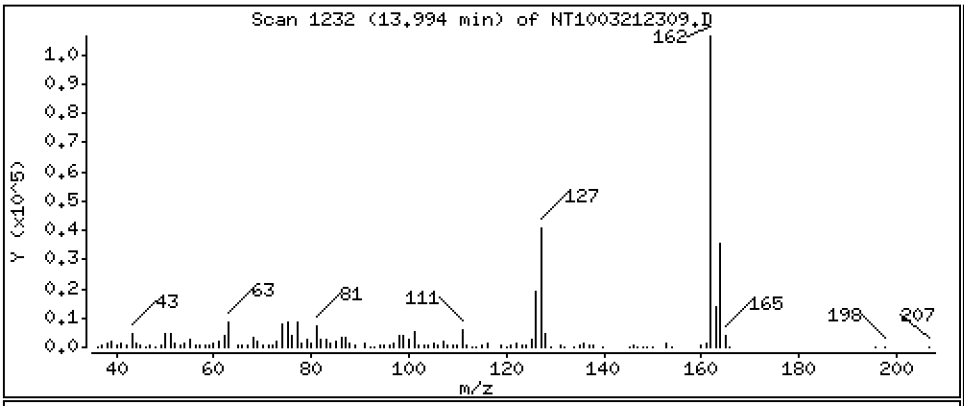
Operator: VTS

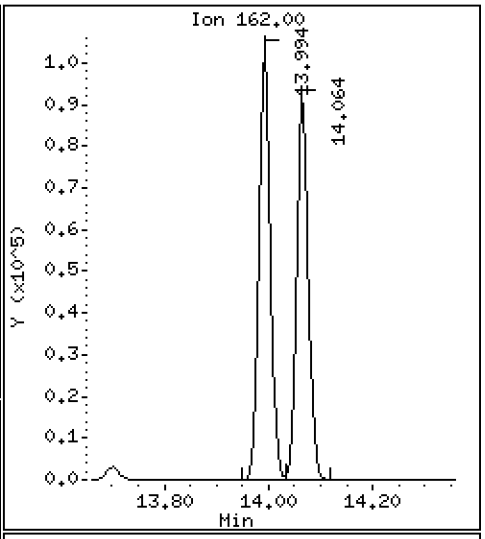
Column phase: ZB-5msi

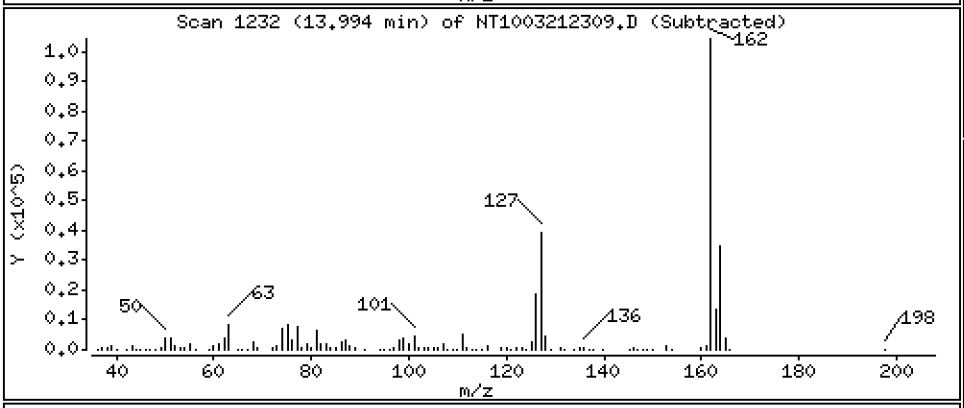
Column diameter: 0.25

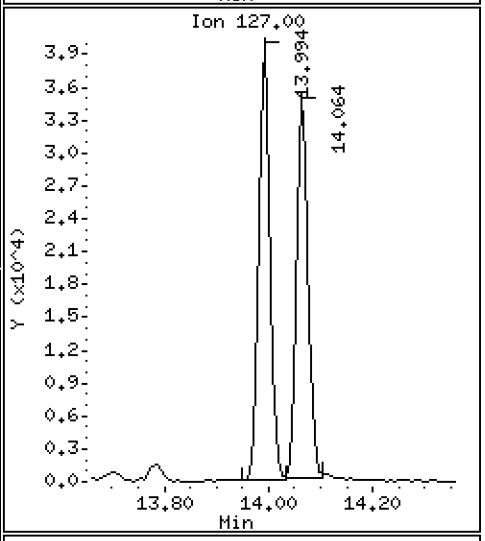
37 2-Chloronaphthalene

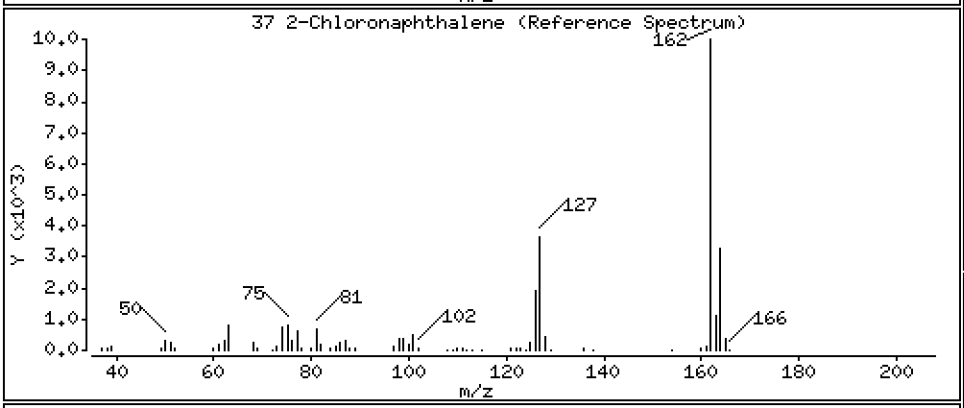
Concentration: 1.348 ug/mL

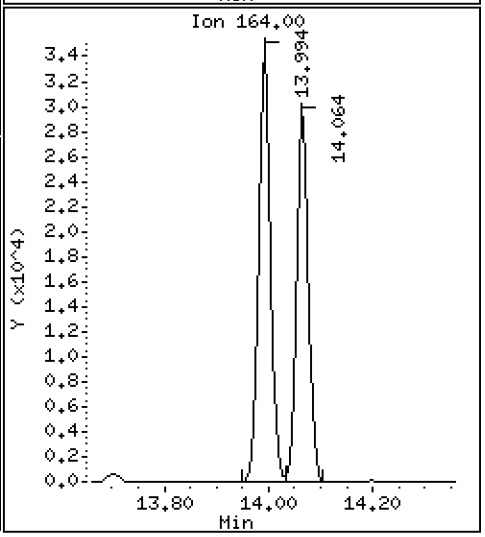


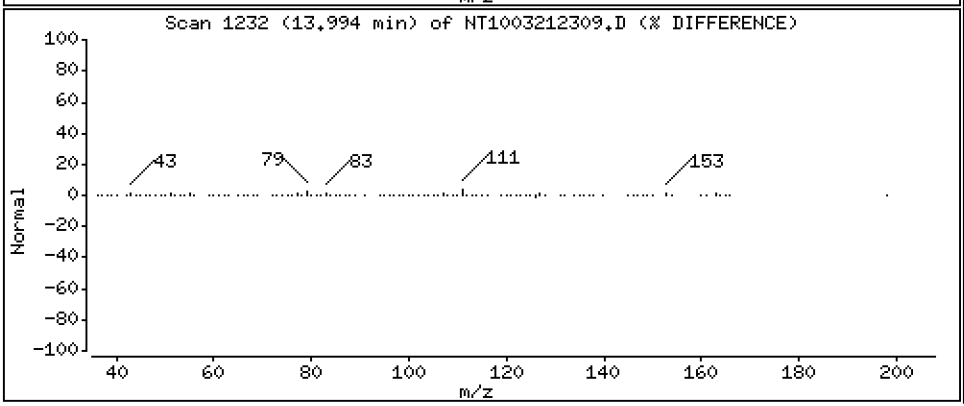












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Date : 21-MAR-2023 22:18

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-SRM1

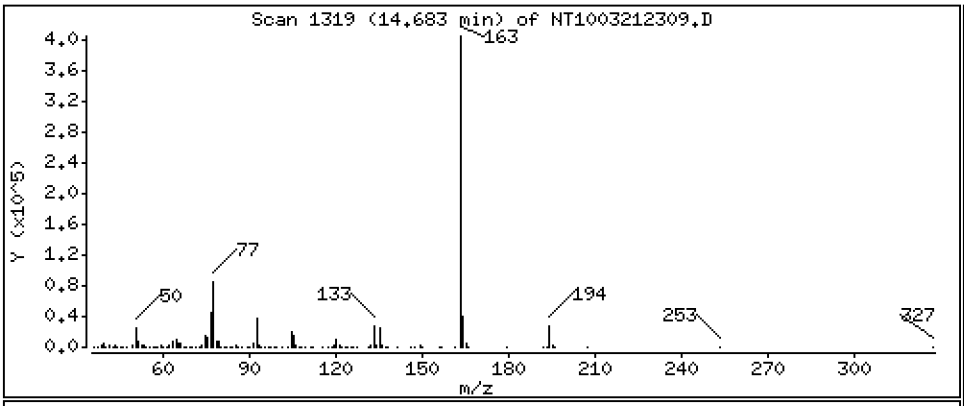
Operator: VTS

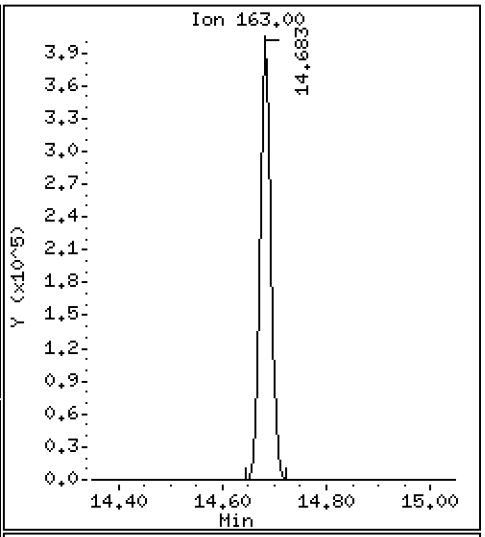
Column phase: ZB-5msi

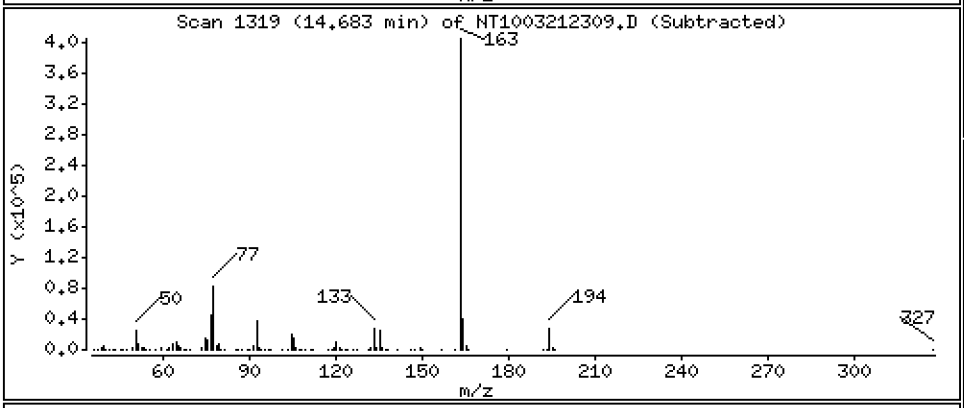
Column diameter: 0.25

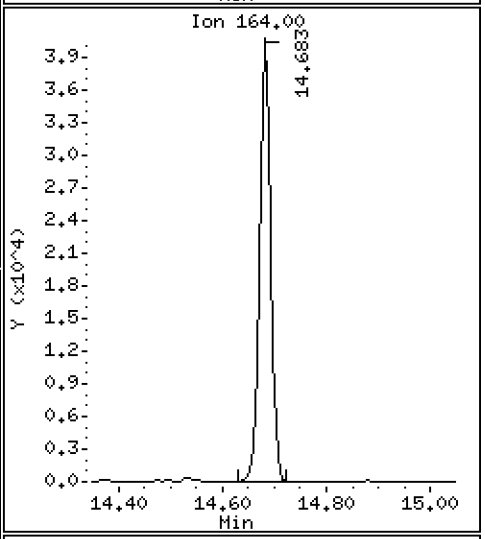
39 Dimethylphthalate

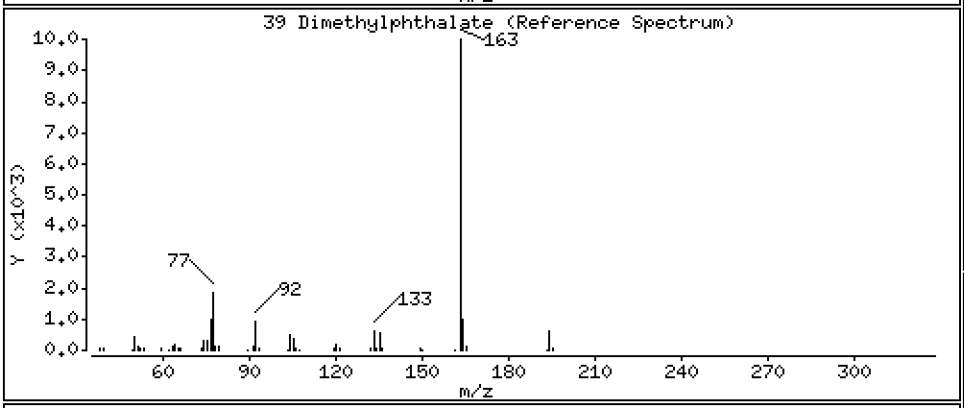
Concentration: 4.851 ug/mL

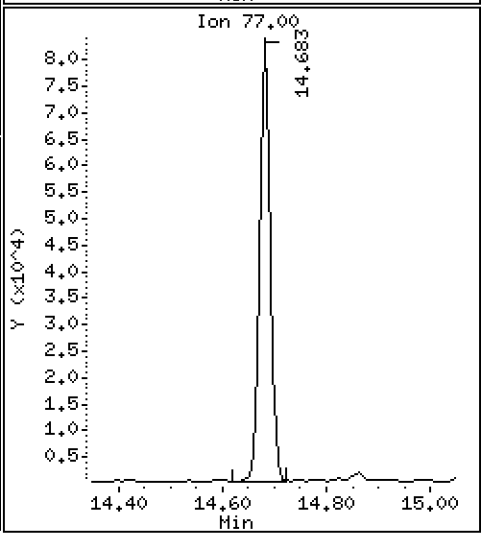


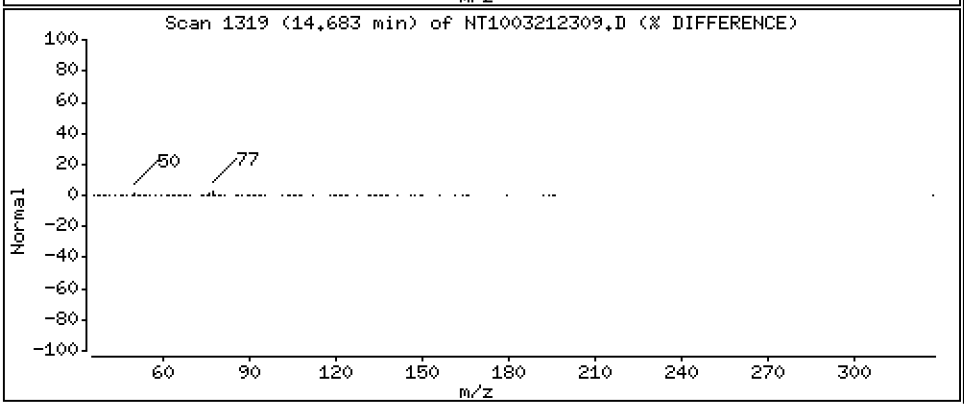












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Date : 21-MAR-2023 22:18

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-SRM1

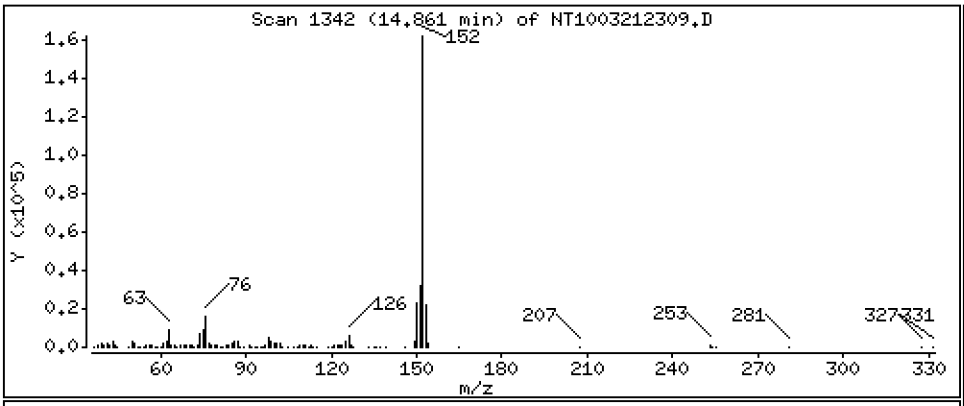
Operator: VTS

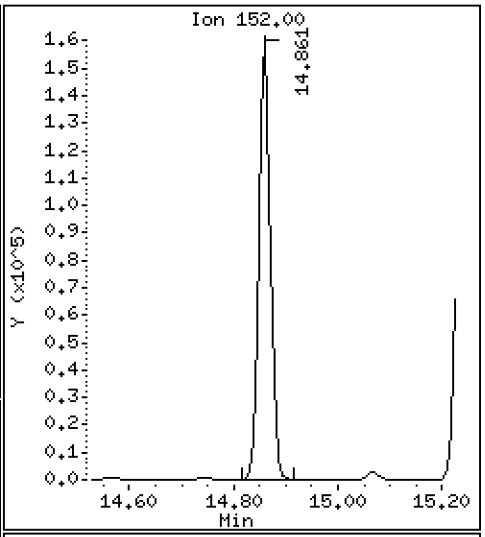
Column phase: ZB-5msi

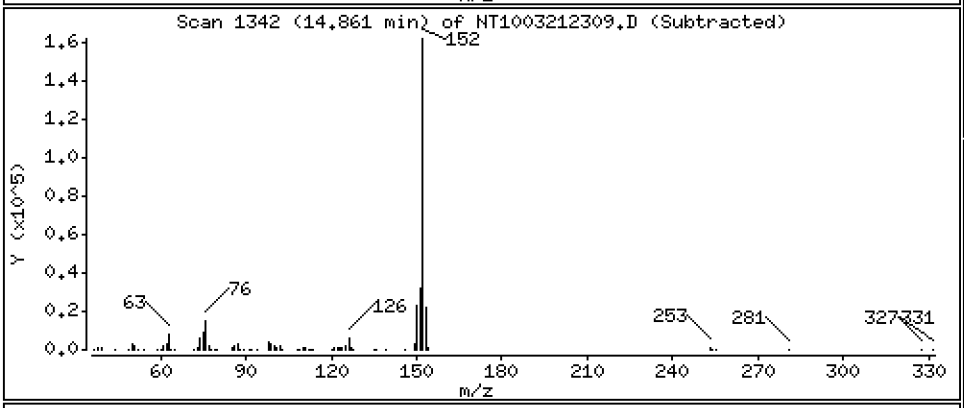
Column diameter: 0.25

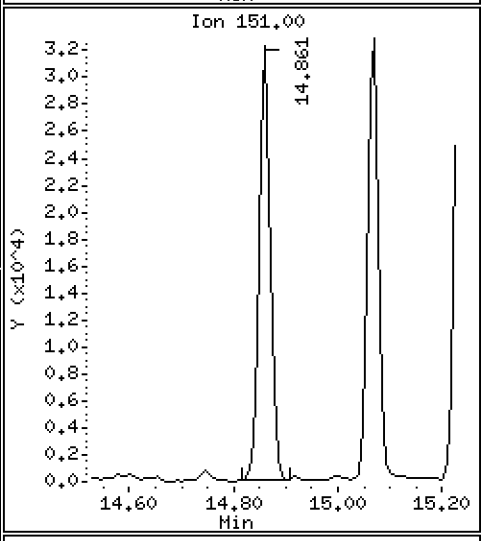
40 Acenaphthylene

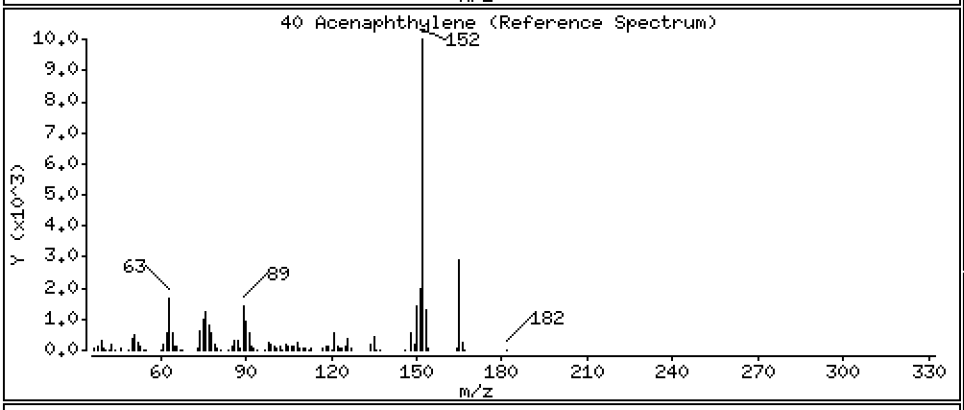
Concentration: 1.292 ug/mL

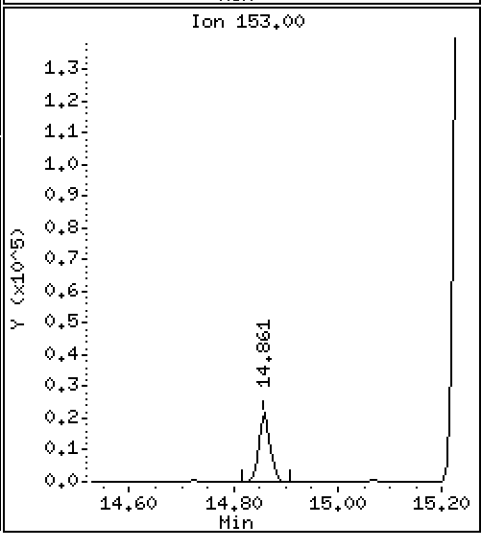


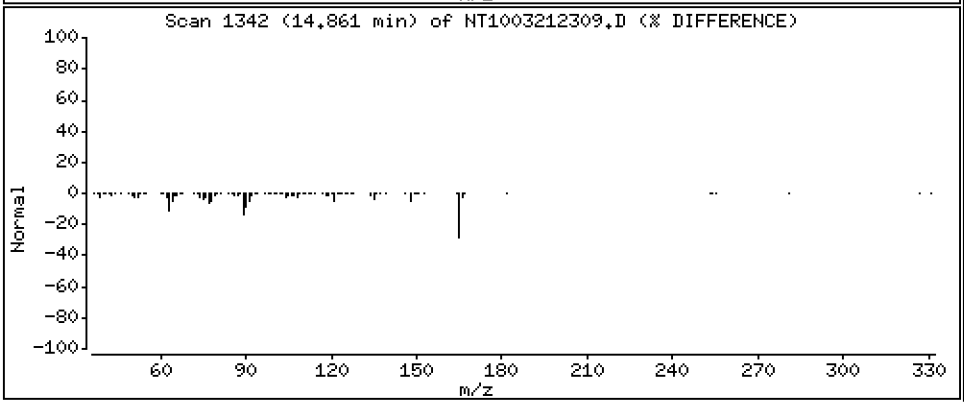












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Date : 21-MAR-2023 22:18

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-SRM1

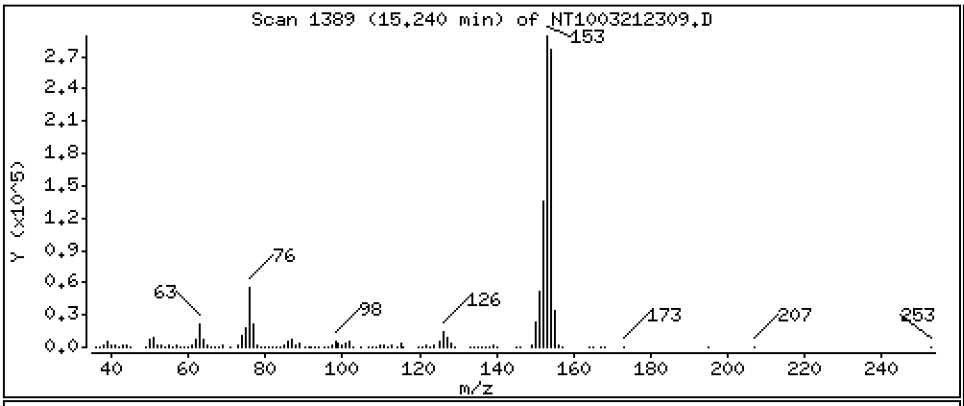
Operator: VTS

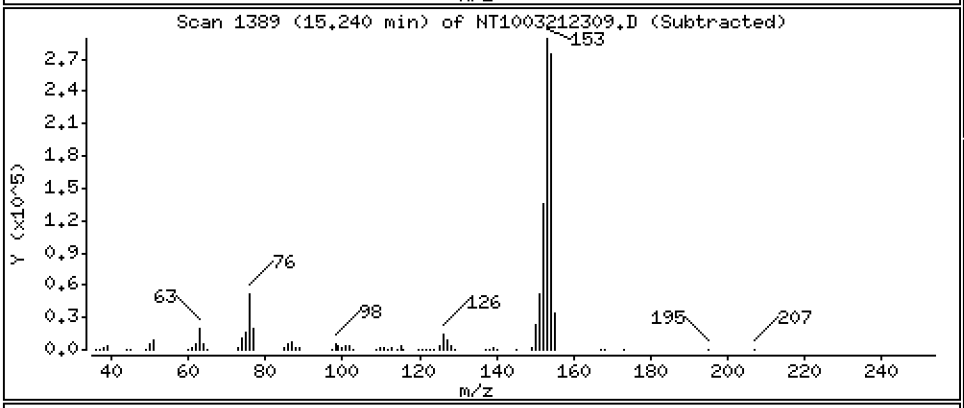
Column phase: ZB-5msi

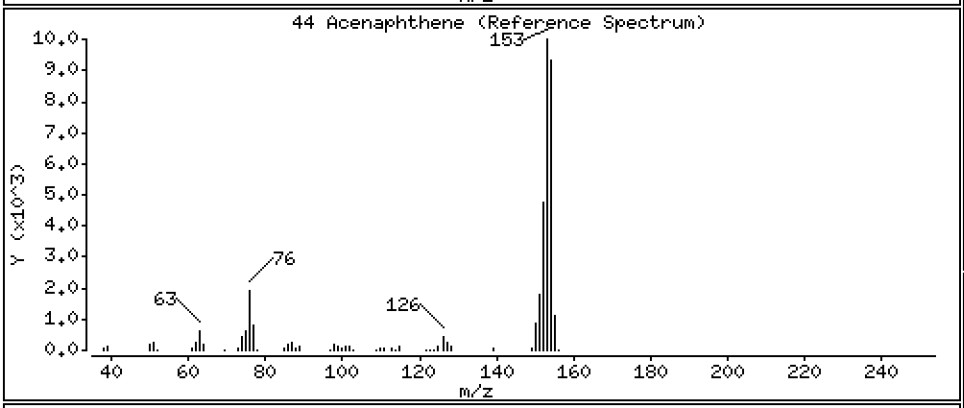
Column diameter: 0.25

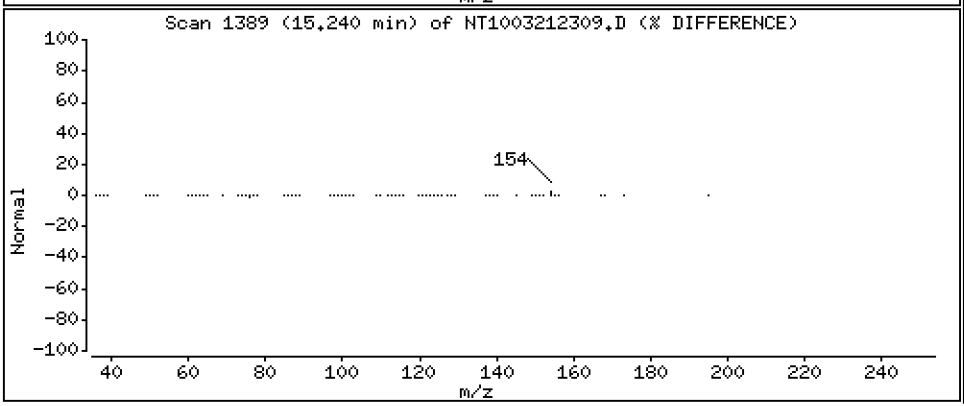
44 Acenaphthene

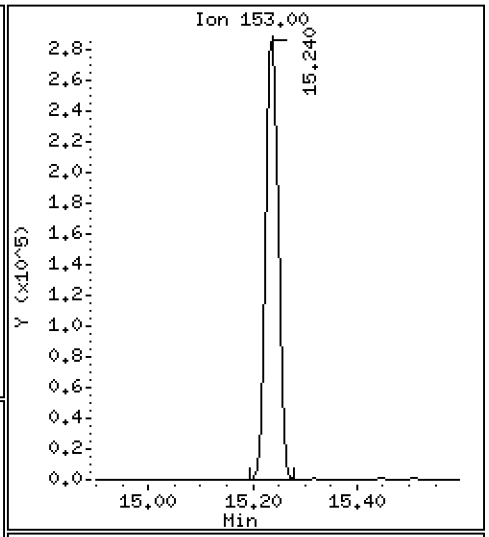
Concentration: 4.019 ug/mL

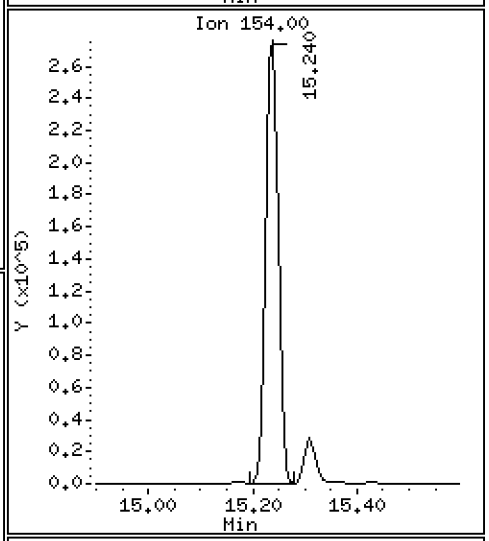


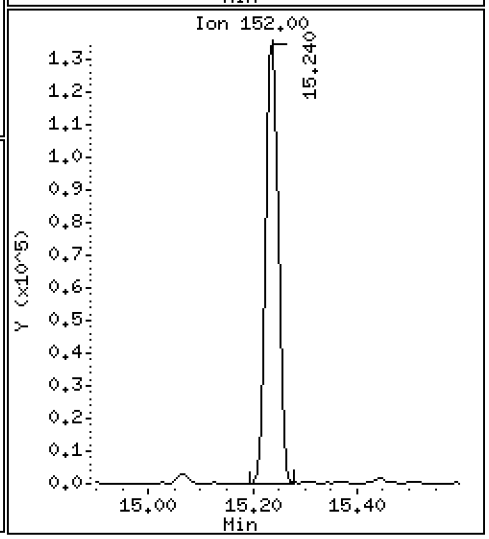












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Date : 21-MAR-2023 22:18

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-SRM1

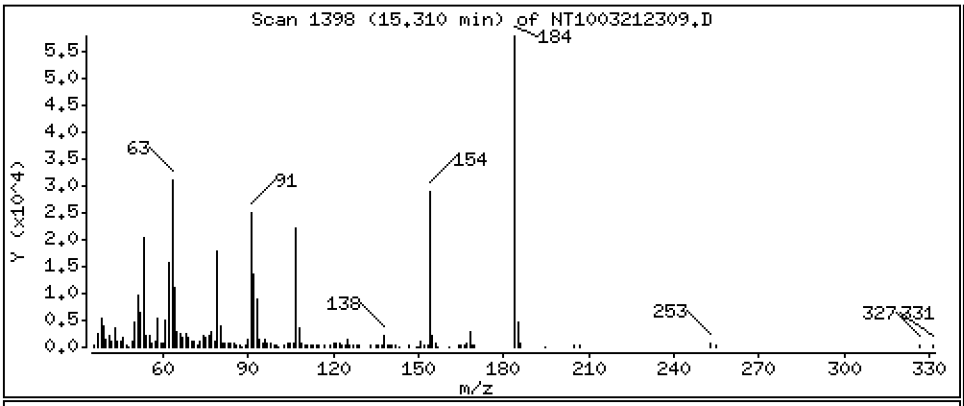
Operator: VTS

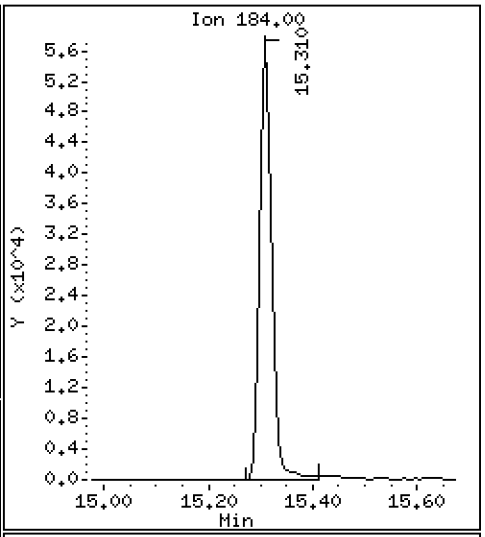
Column phase: ZB-5msi

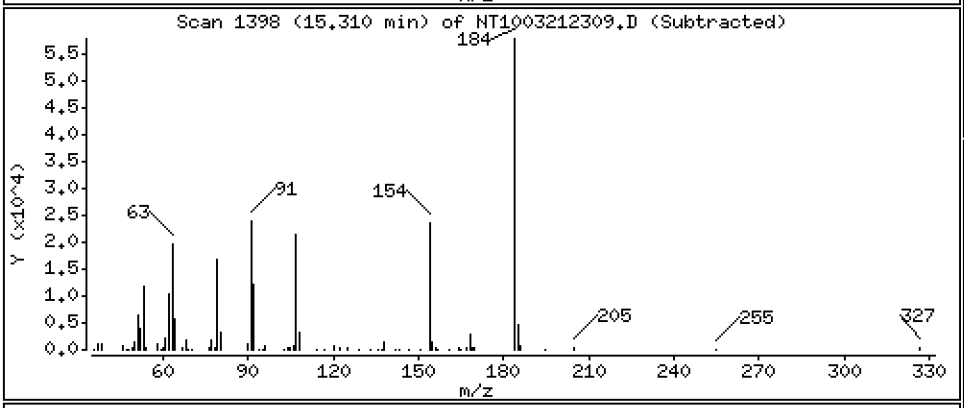
Column diameter: 0.25

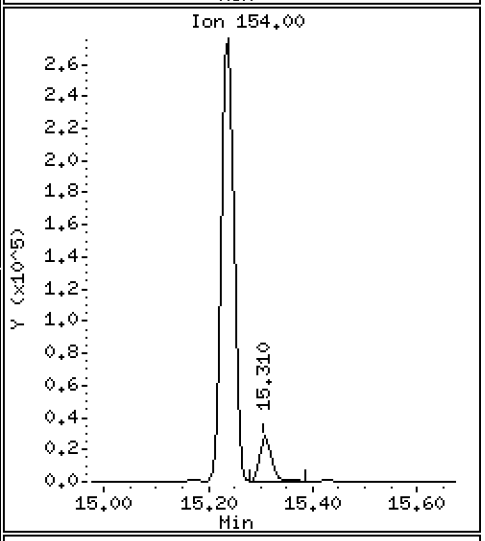
45 2,4-Dinitrophenol

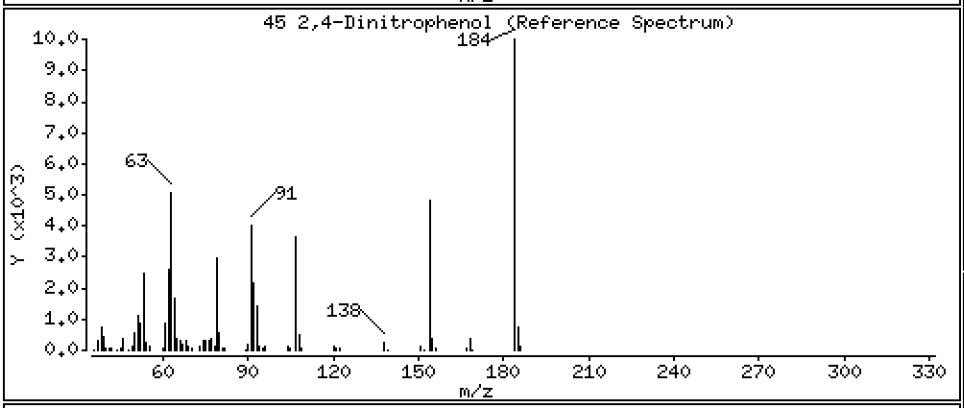
Concentration: 5.678 ug/mL

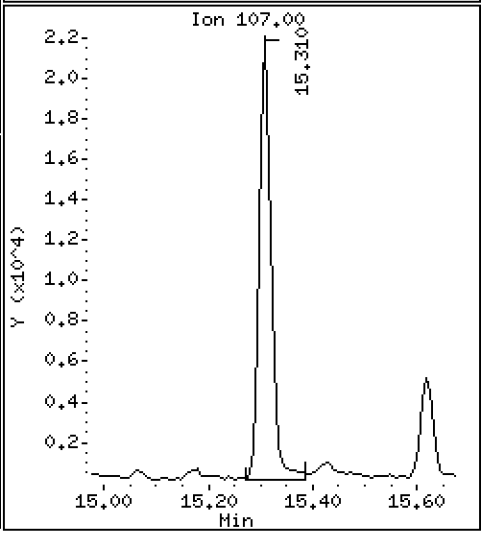


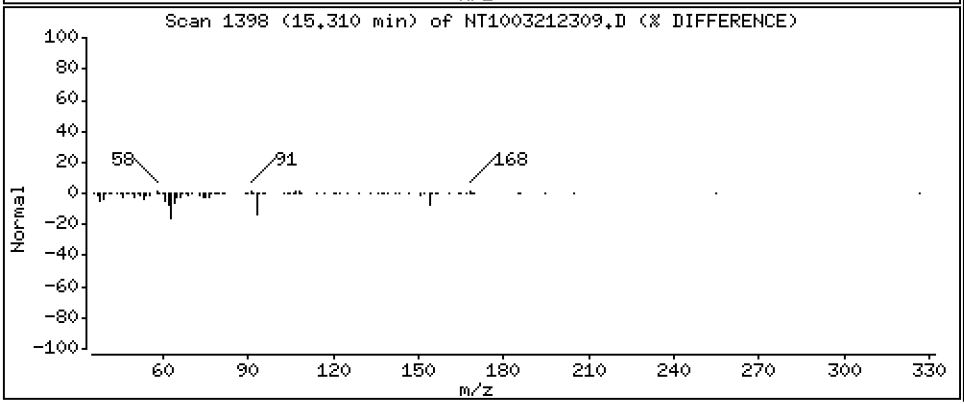












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Date : 21-MAR-2023 22:18

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-SRM1

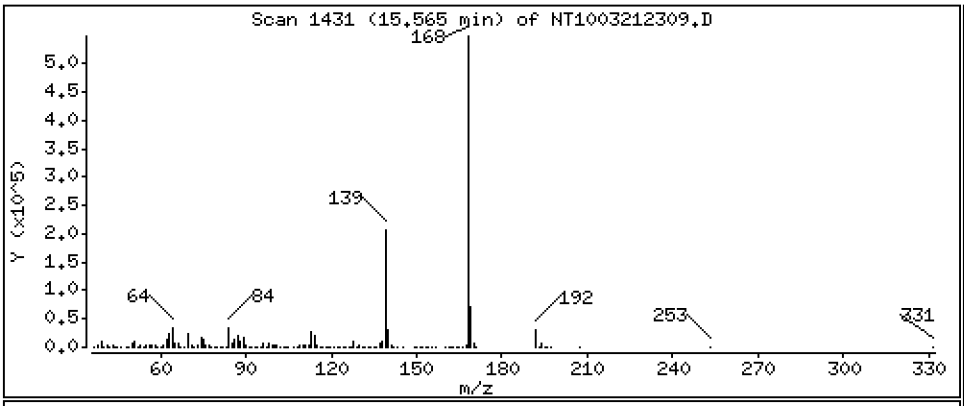
Operator: VTS

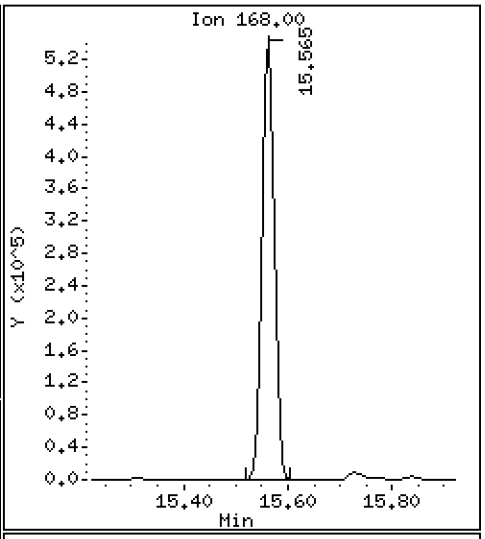
Column phase: ZB-5msi

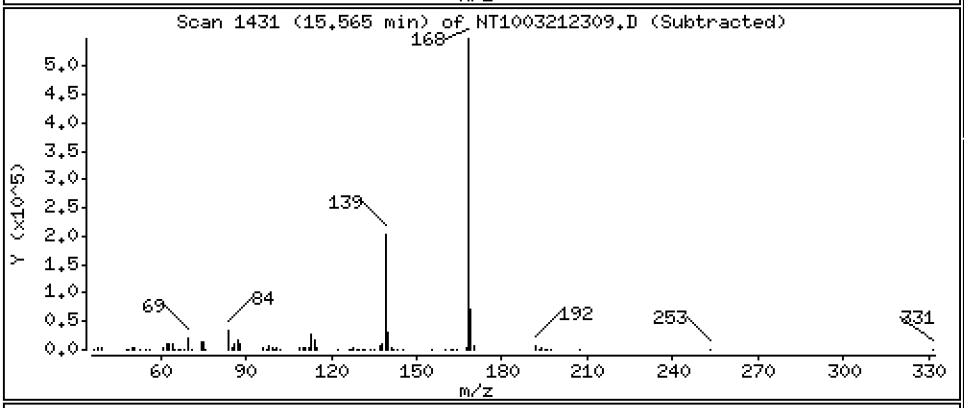
Column diameter: 0.25

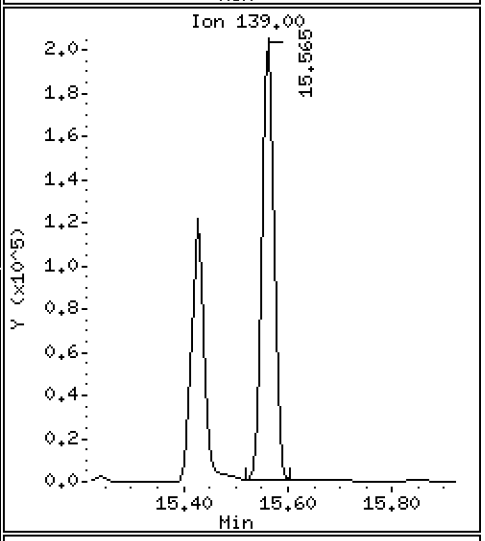
46 Dibenzofuran

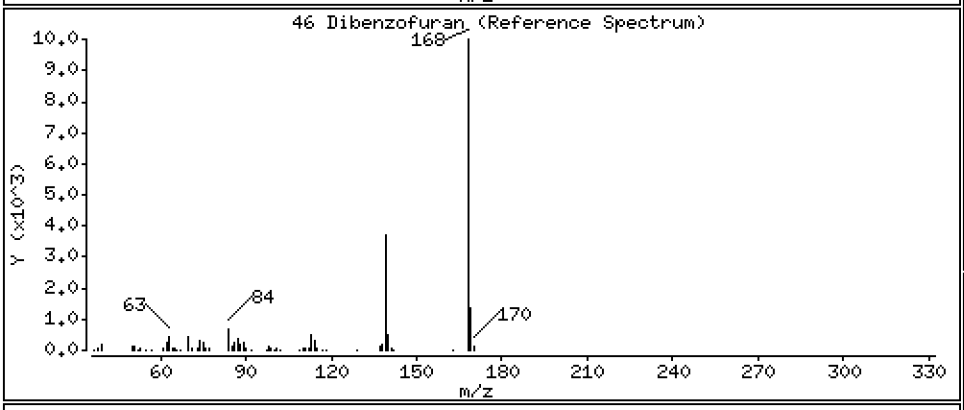
Concentration: 5.222 ug/mL

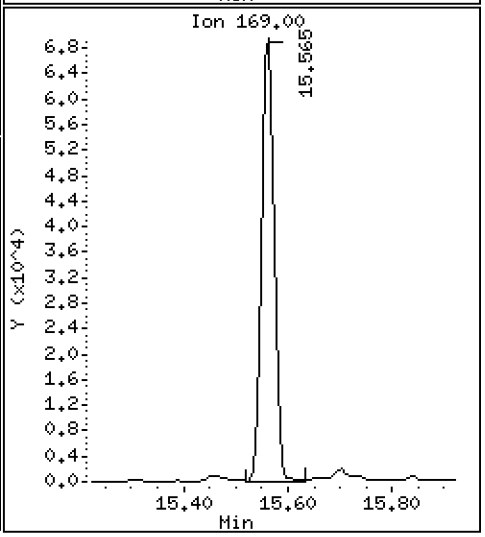


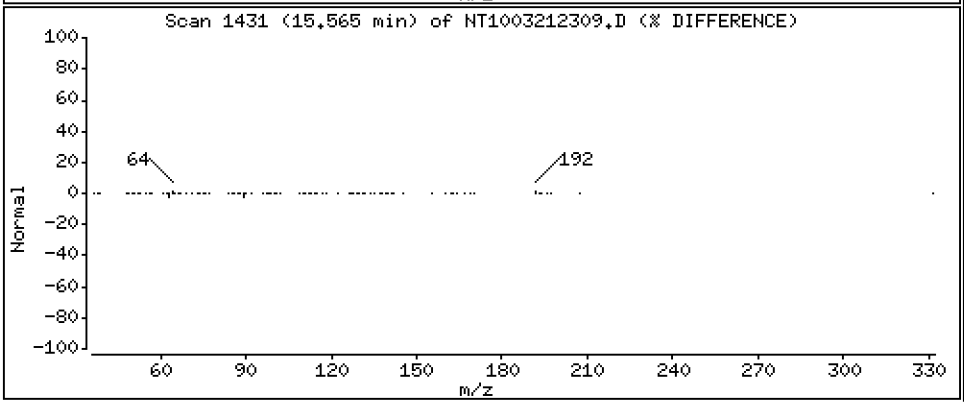












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Date : 21-MAR-2023 22:18

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-SRM1

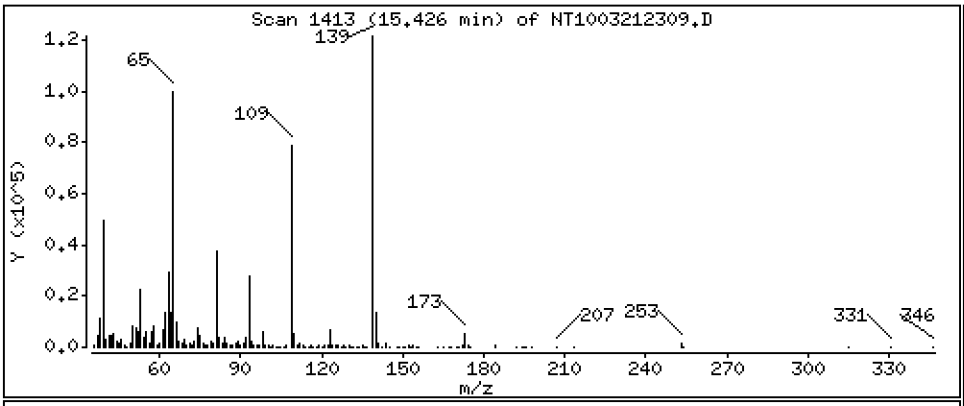
Operator: VTS

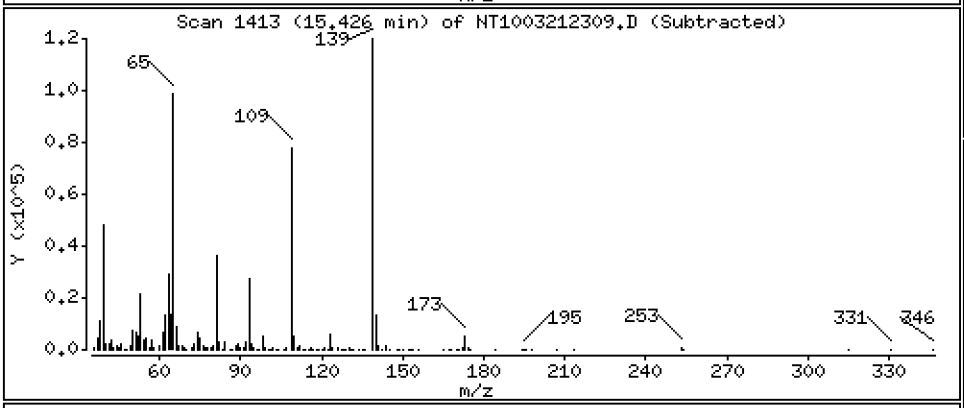
Column phase: ZB-5msi

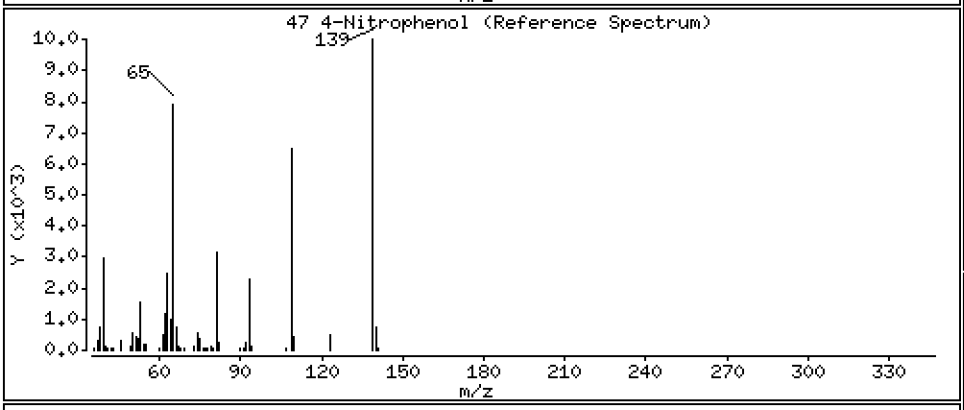
Column diameter: 0.25

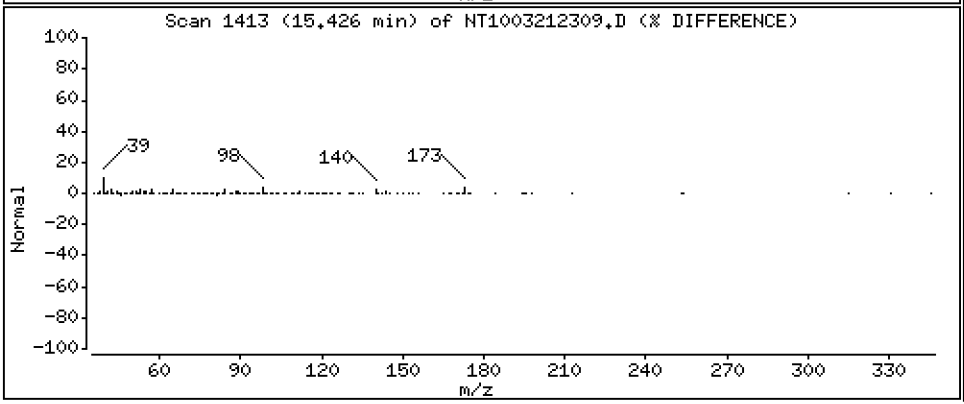
47 4-Nitrophenol

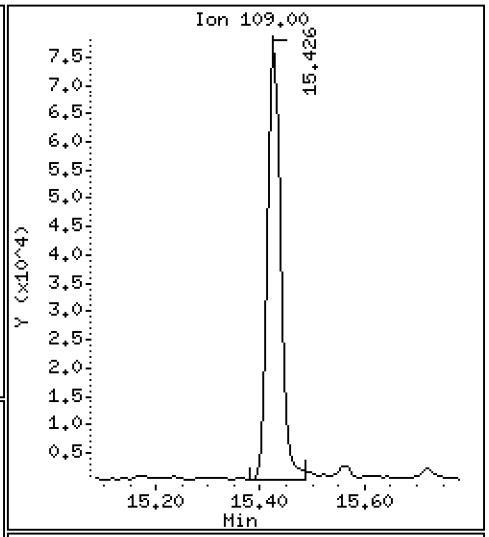
Concentration: 7.000 ug/mL

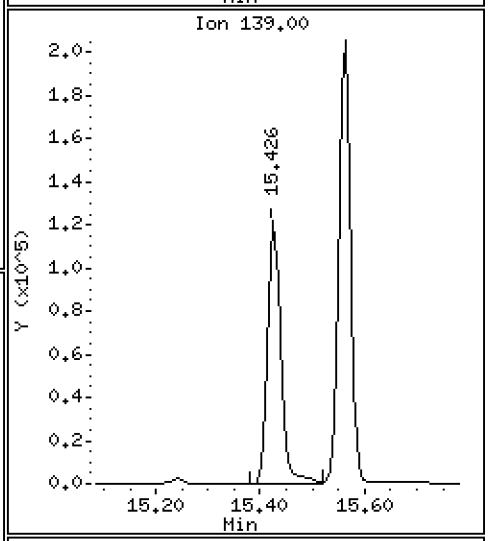


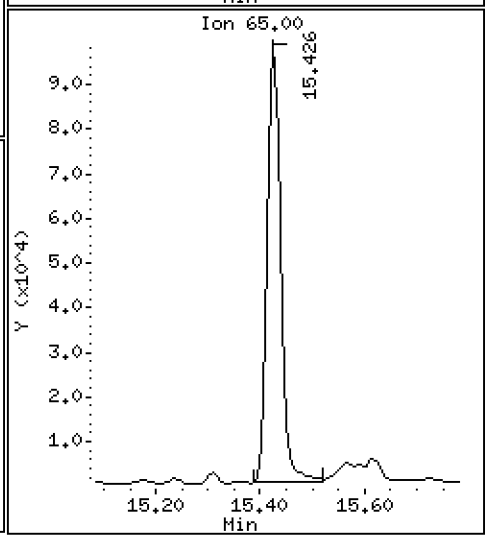












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Date : 21-MAR-2023 22:18

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-SRM1

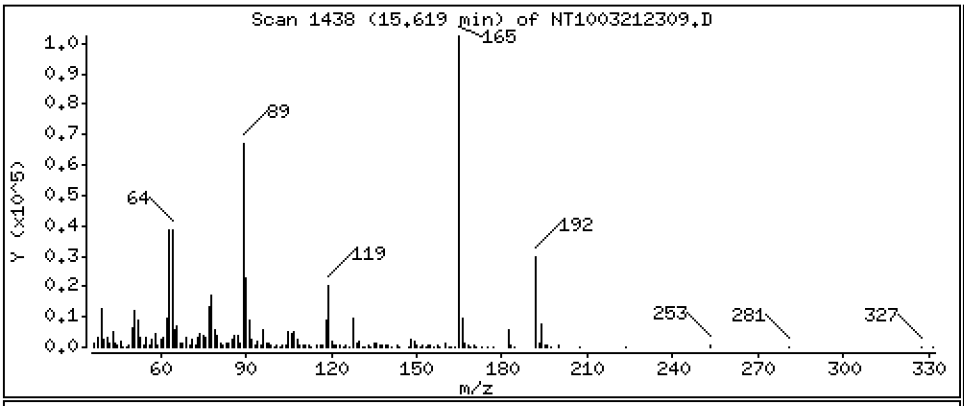
Operator: VTS

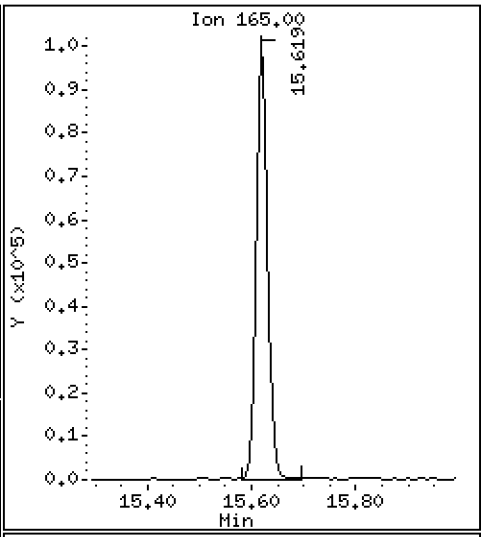
Column phase: ZB-5msi

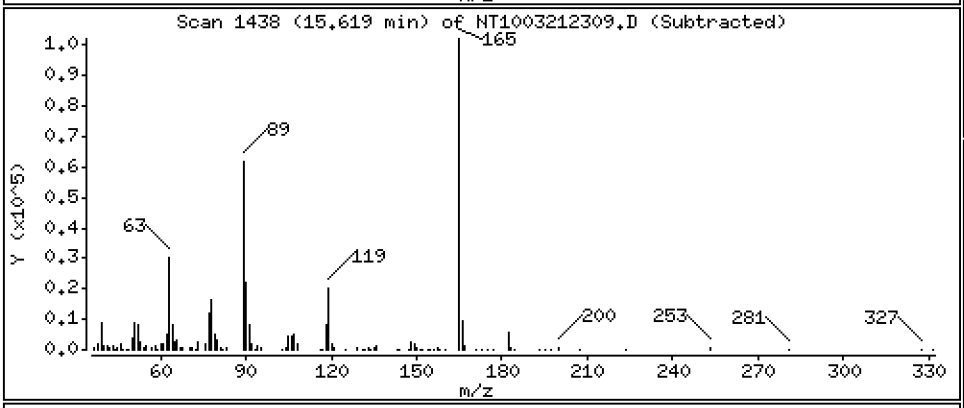
Column diameter: 0.25

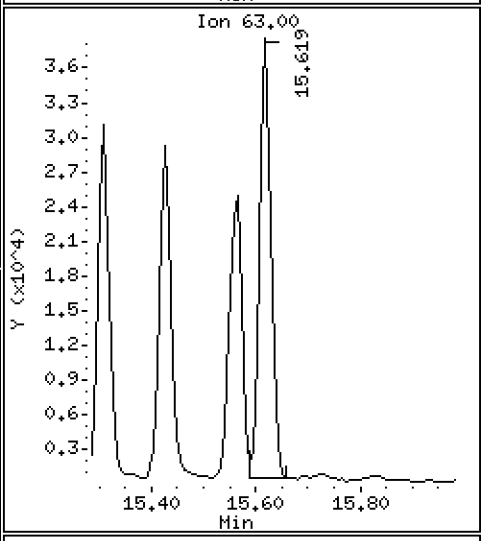
48 2,4-Dinitrotoluene

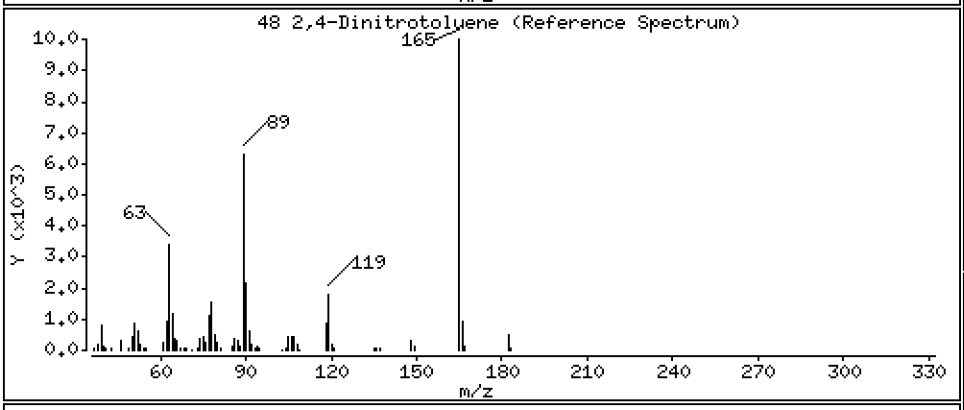
Concentration: 3.863 ug/mL

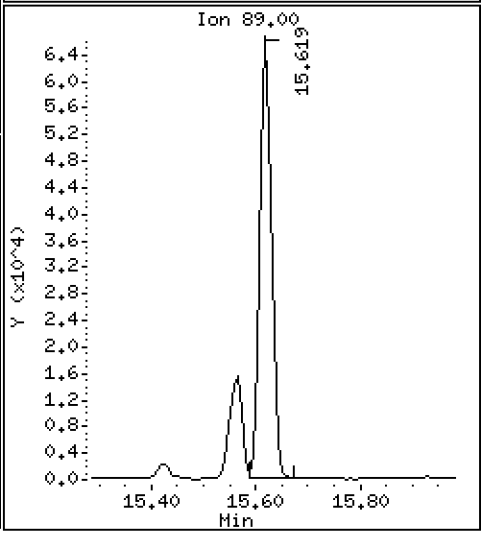


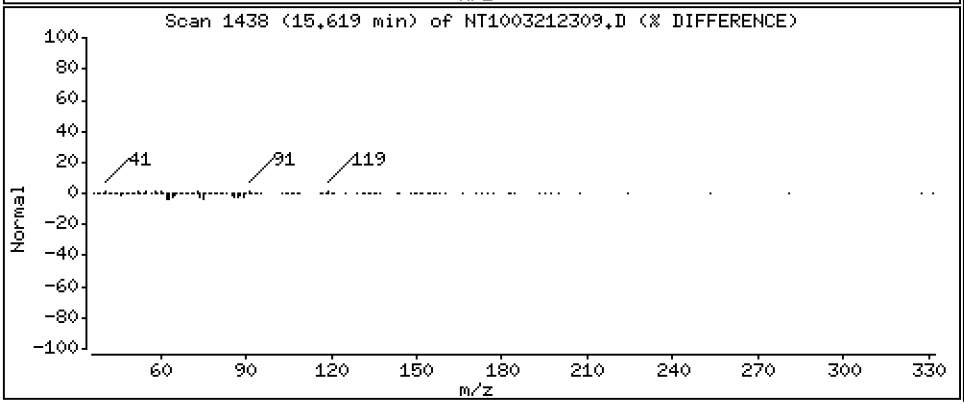












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Date : 21-MAR-2023 22:18

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-SRM1

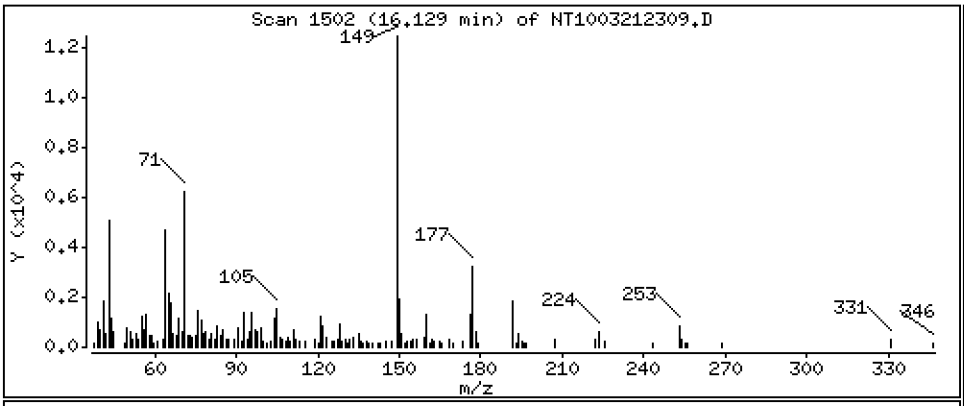
Operator: VTS

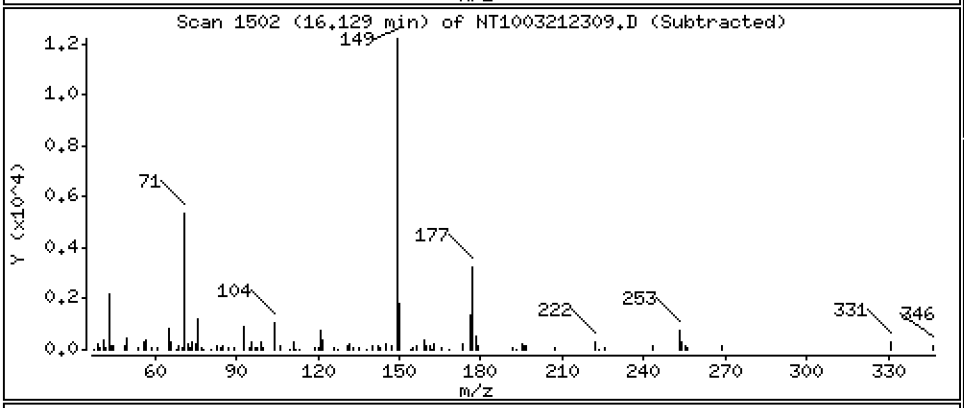
Column phase: ZB-5msi

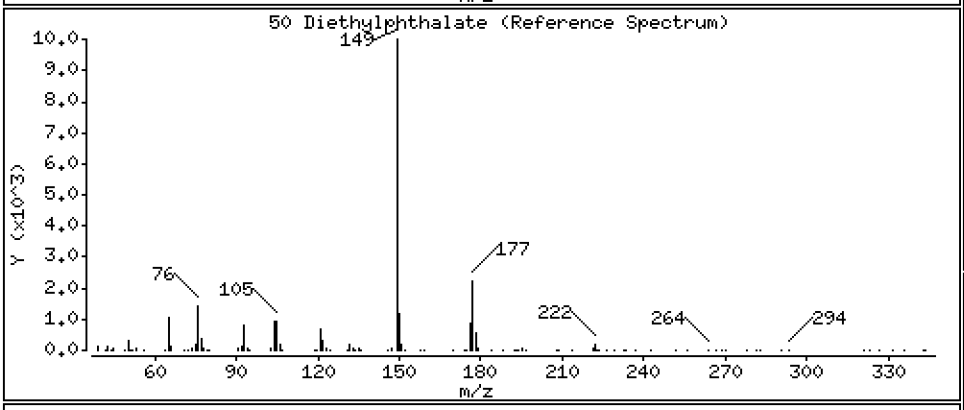
Column diameter: 0.25

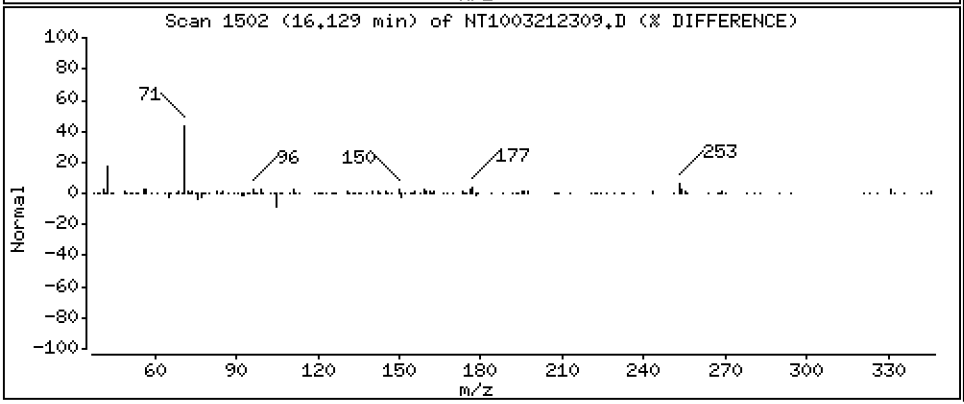
50 Diethylphthalate

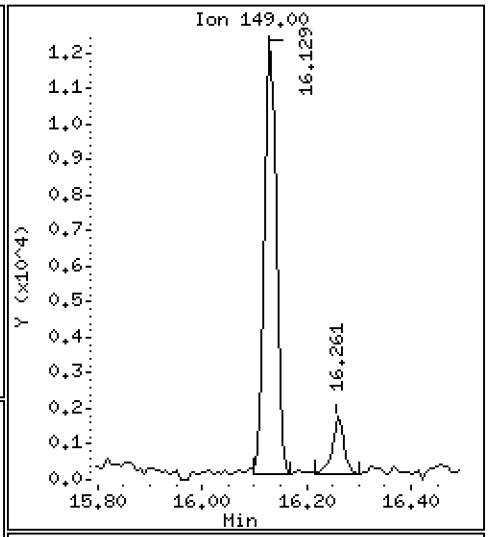
Concentration: 0.1534 ug/mL

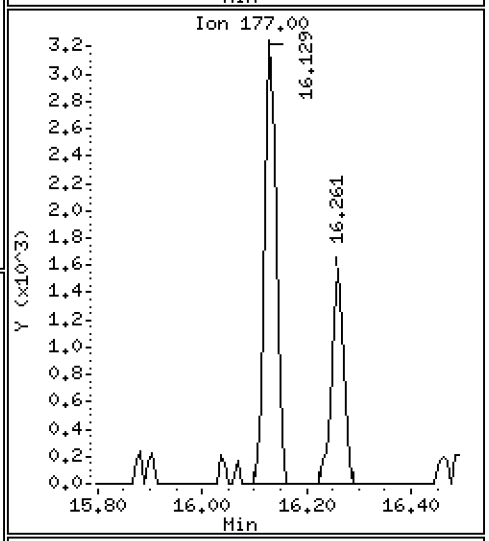


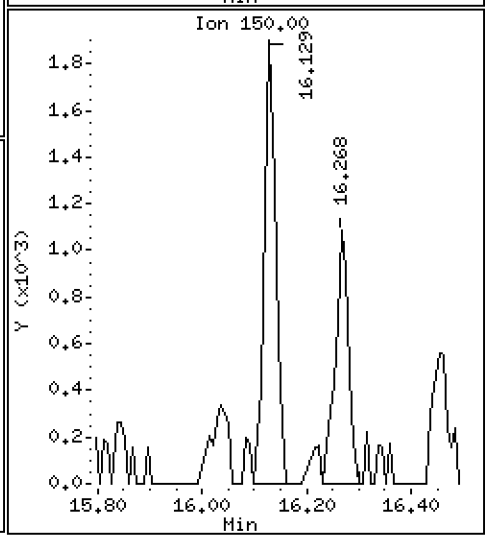












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212309.D

Date : 21-MAR-2023 22:18

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-SRM1

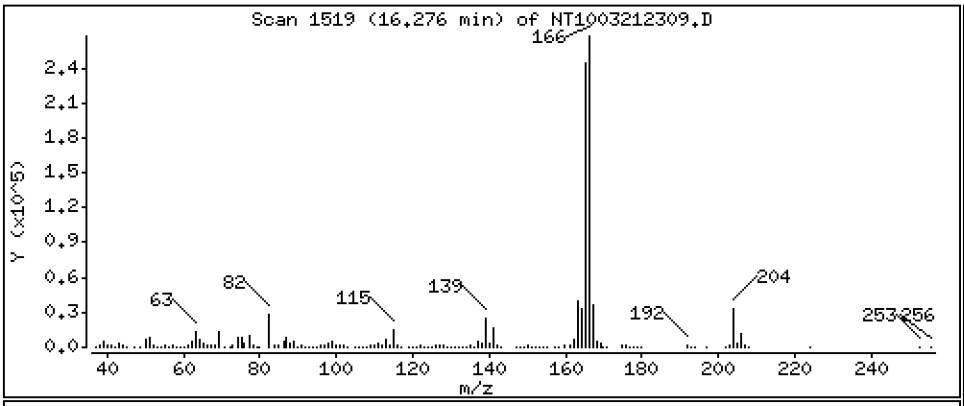
Operator: VTS

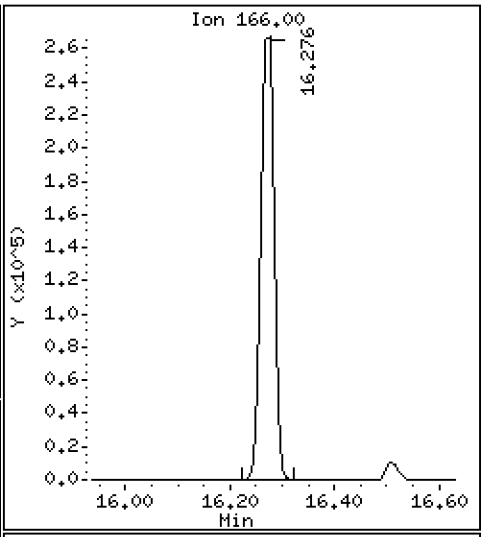
Column phase: ZB-5msi

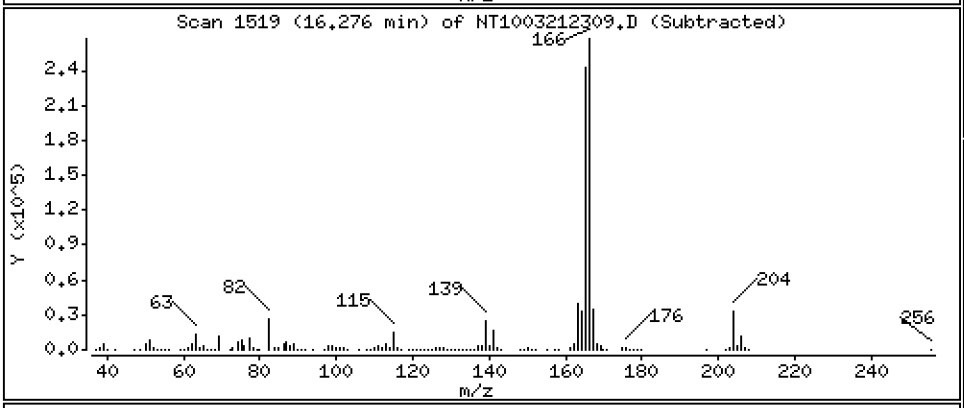
Column diameter: 0.25

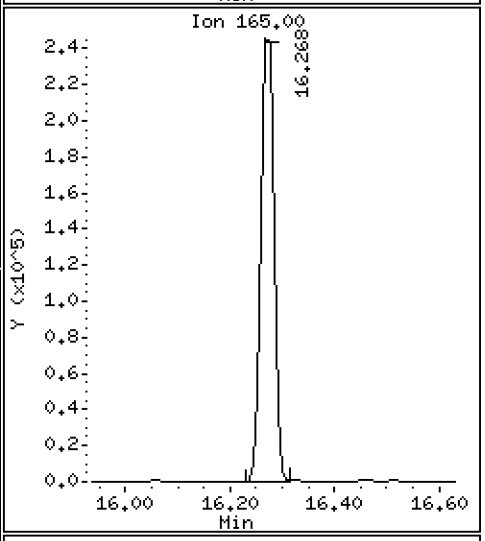
49 Fluorene

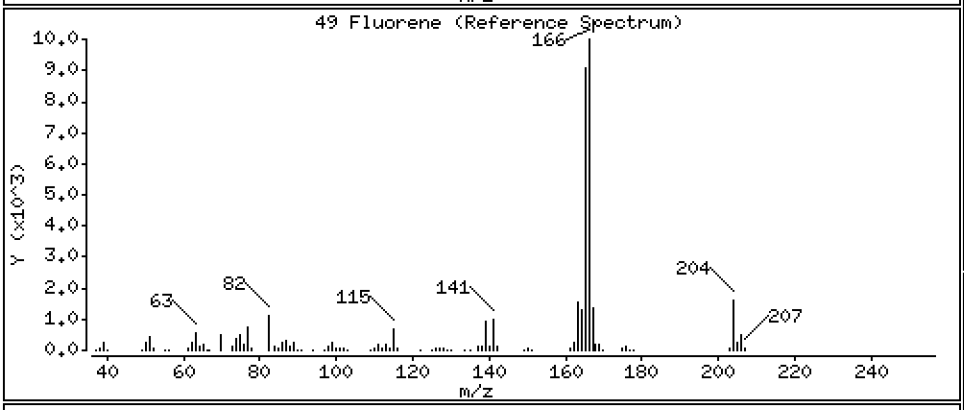
Concentration: 3.336 ug/mL

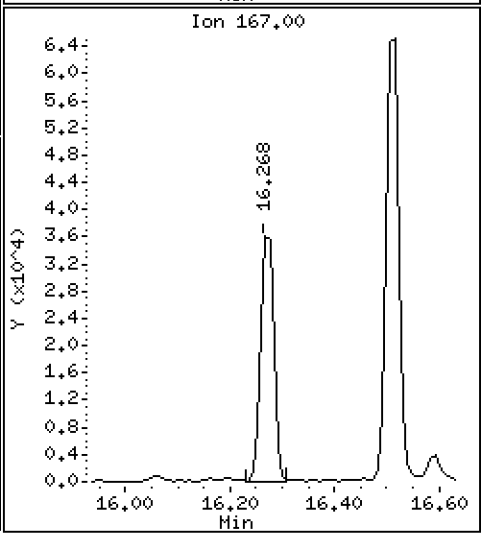


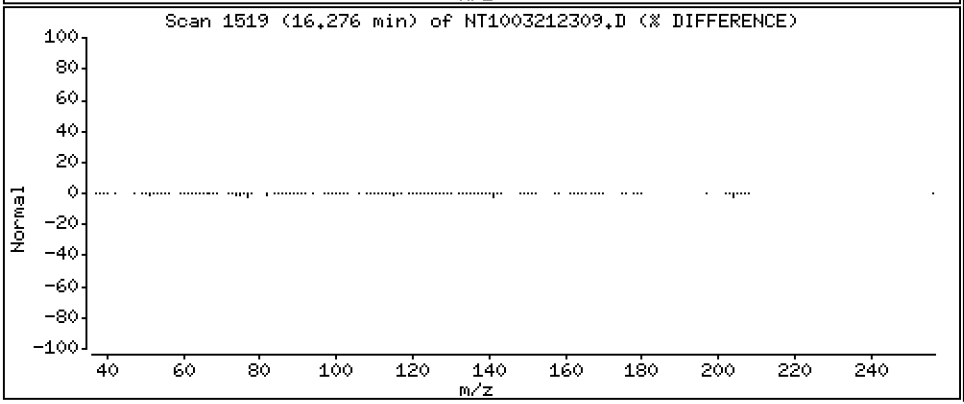












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Date : 21-MAR-2023 22:18

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-SRM1

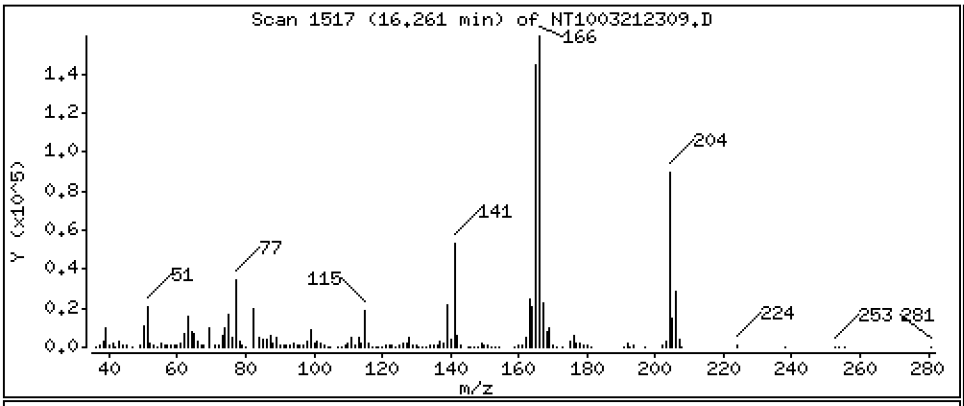
Operator: VTS

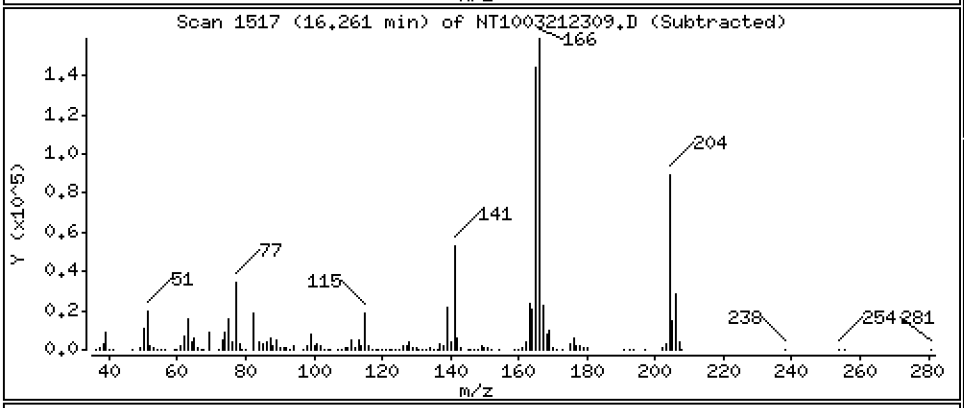
Column phase: ZB-5msi

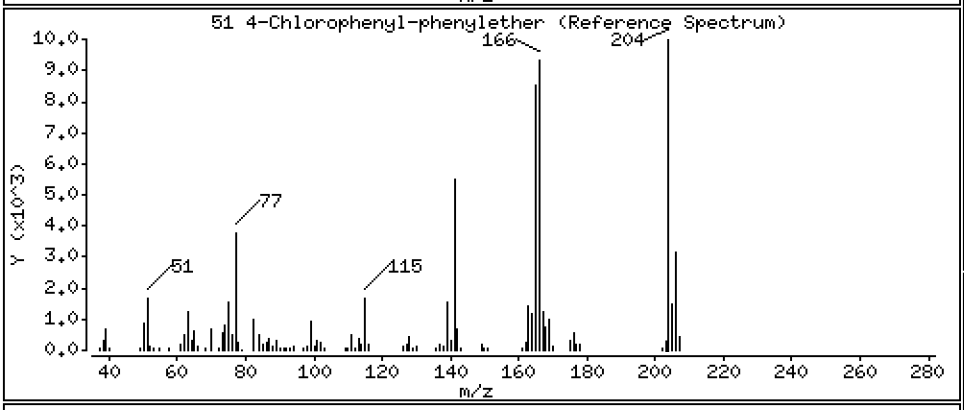
Column diameter: 0.25

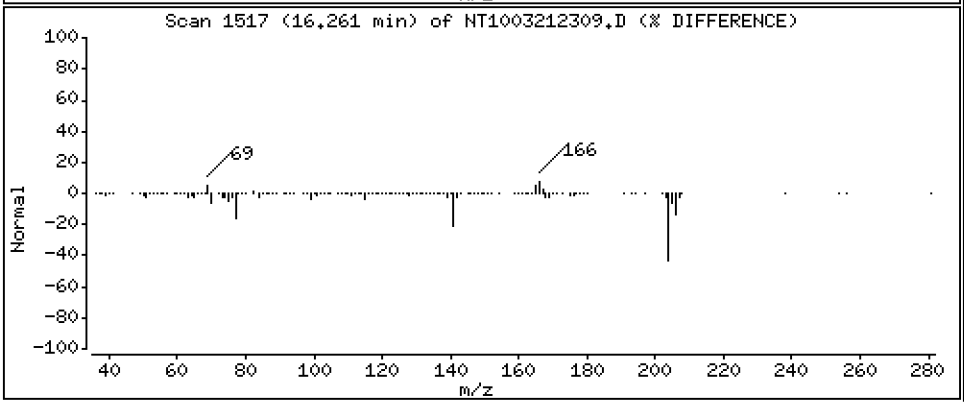
51 4-Chlorophenyl-phenylether

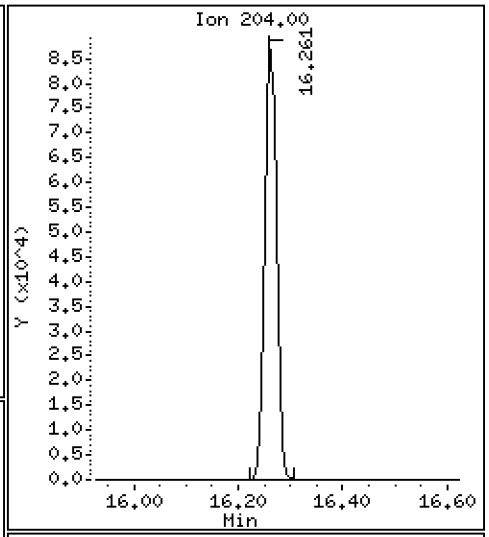
Concentration: 2.049 ug/mL

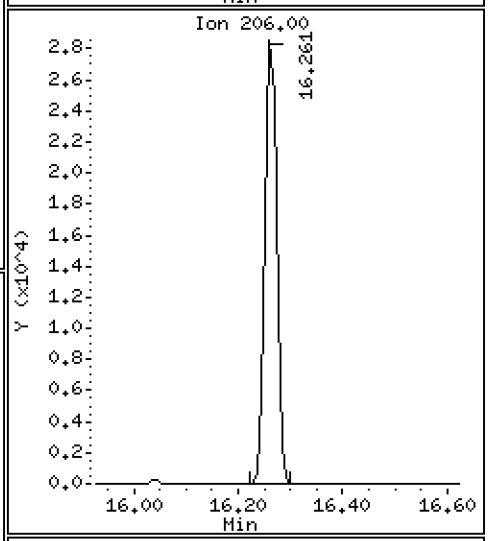


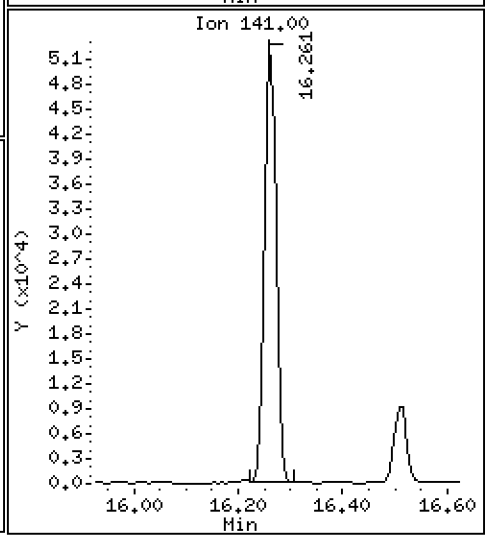












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Date : 21-MAR-2023 22:18

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-SRM1

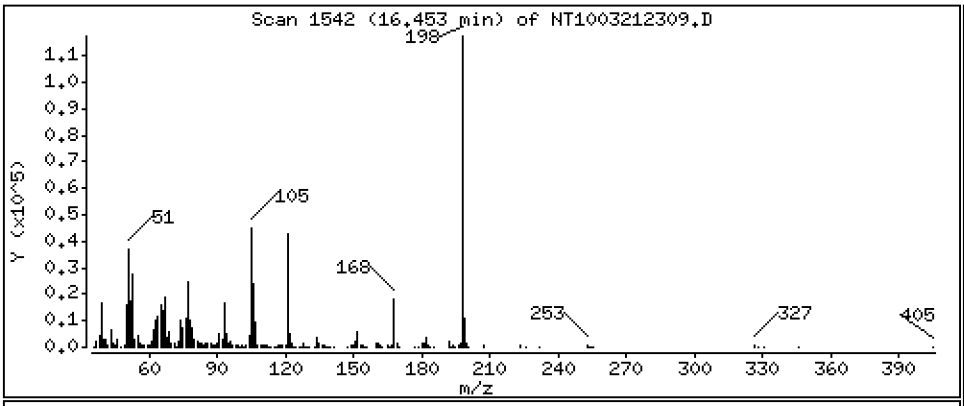
Operator: VTS

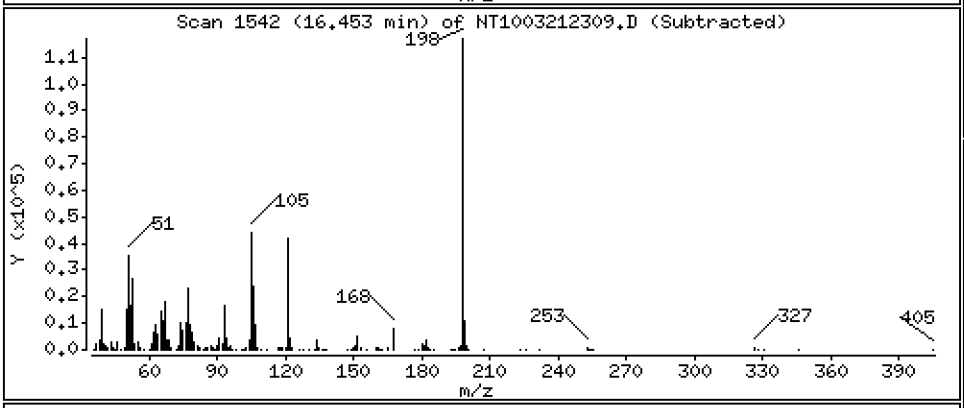
Column phase: ZB-5msi

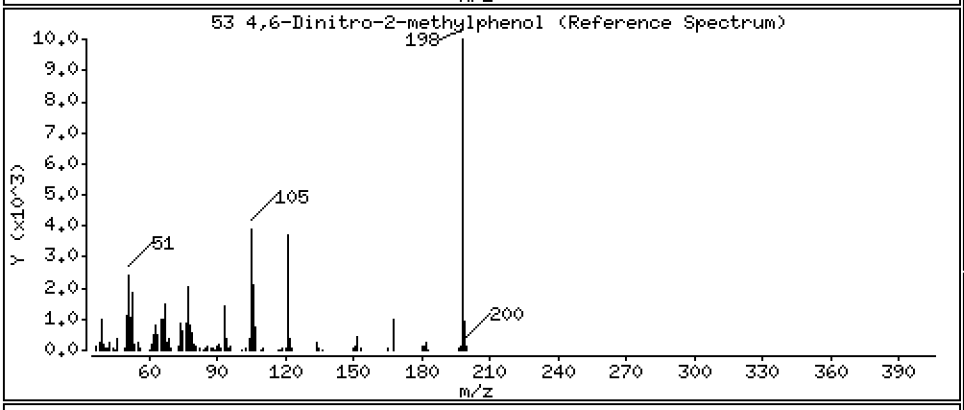
Column diameter: 0.25

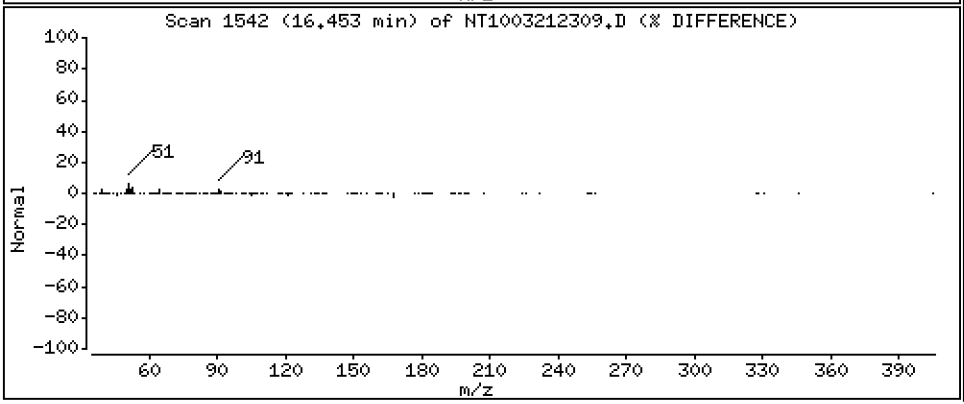
53 4,6-Dinitro-2-methylphenol

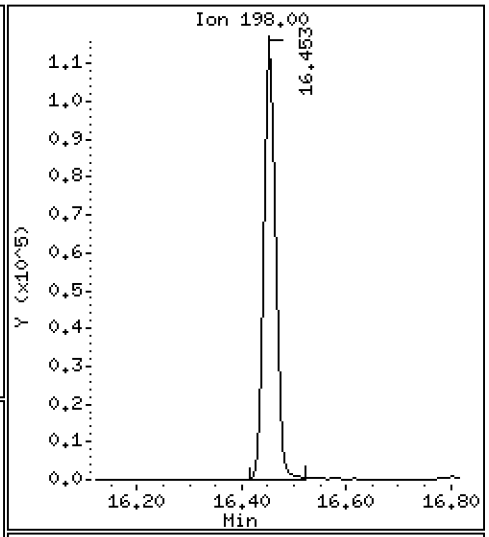
Concentration: 8.507 ug/mL

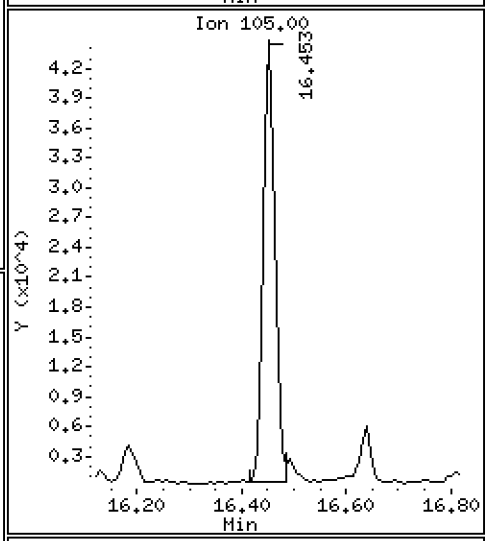


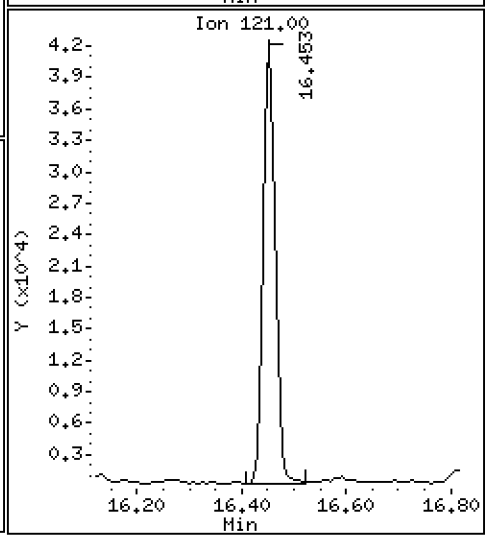












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Date : 21-MAR-2023 22:18

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-SRM1

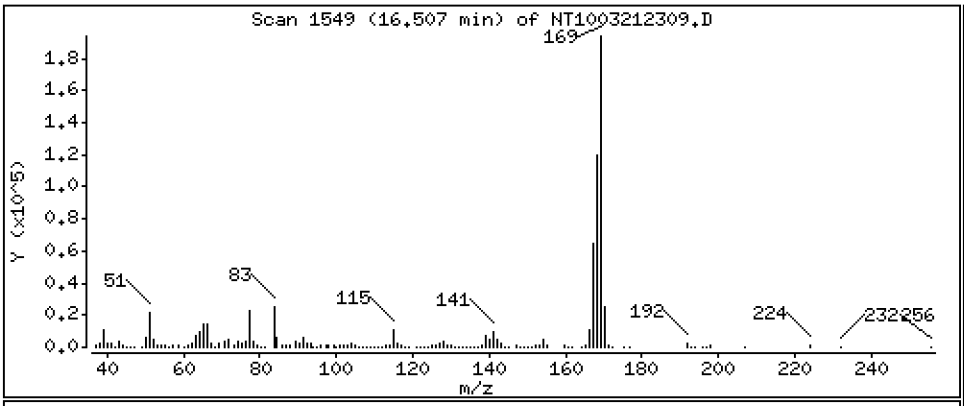
Operator: VTS

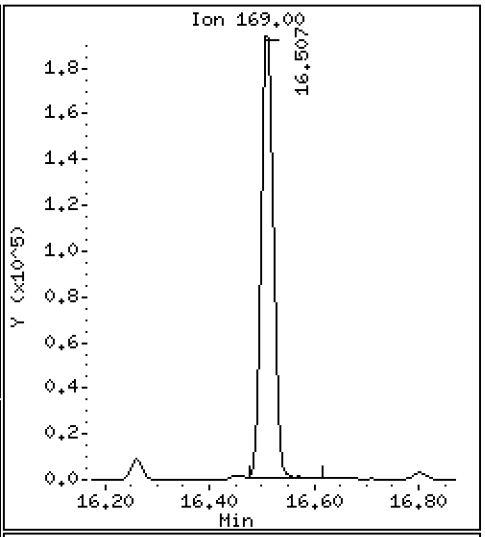
Column phase: ZB-5msi

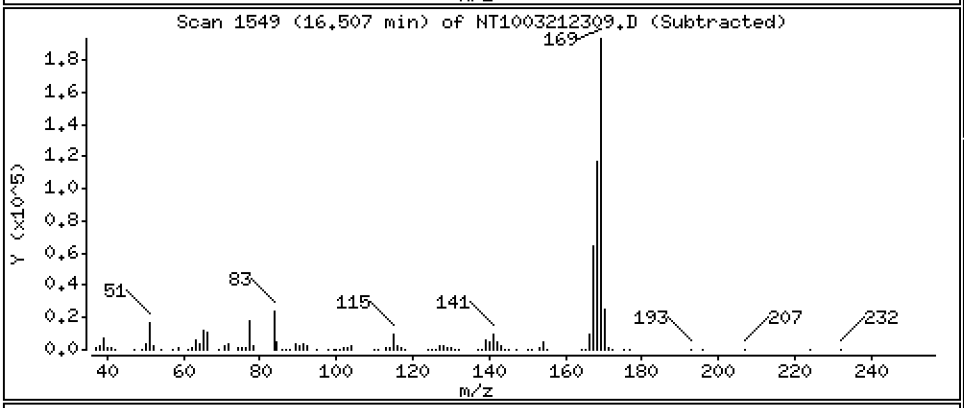
Column diameter: 0.25

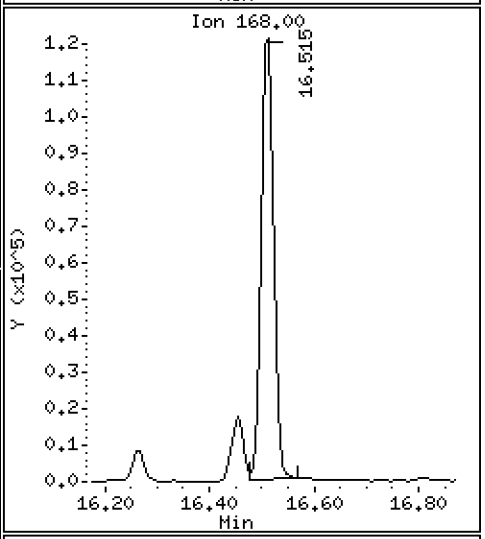
54 N-Nitrosodiphenylamine

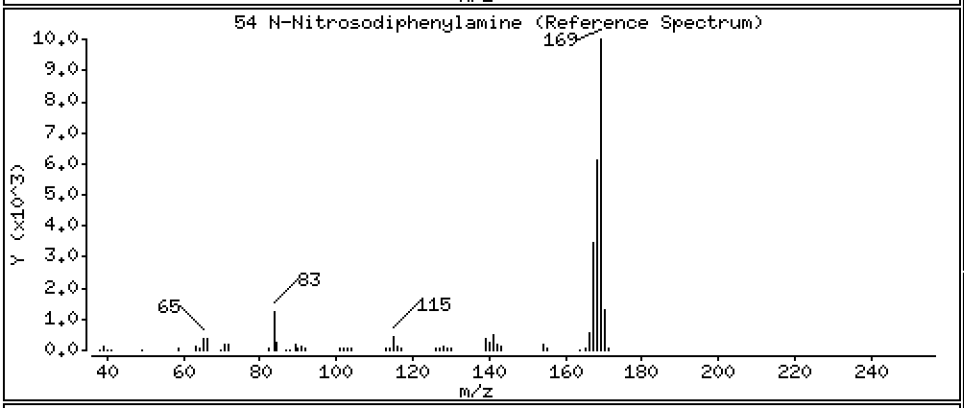
Concentration: 3.356 ug/mL

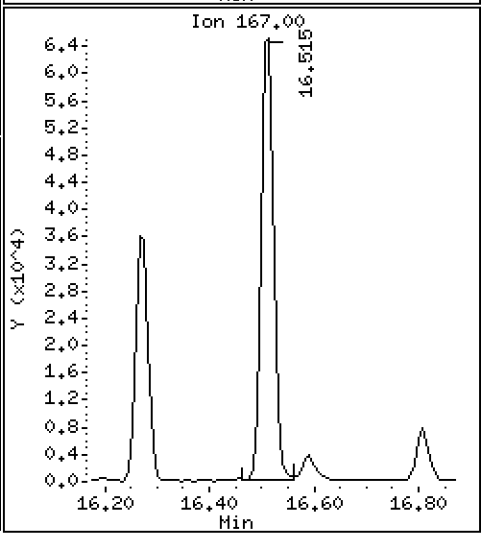


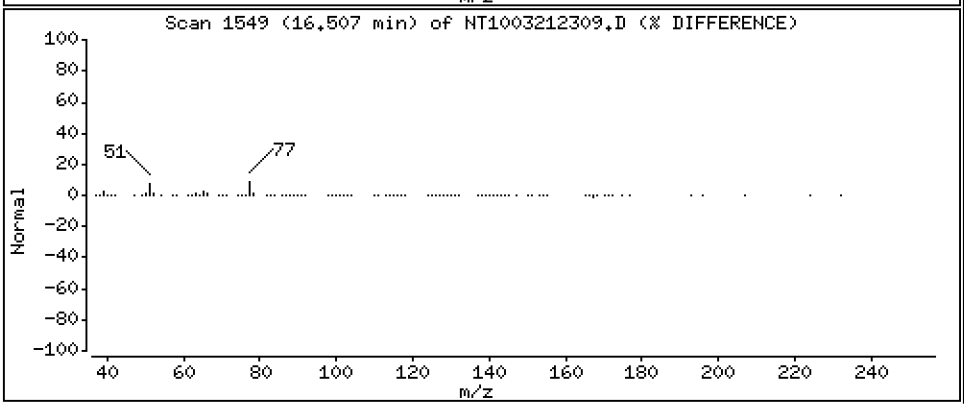












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Date : 21-MAR-2023 22:18

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-SRM1

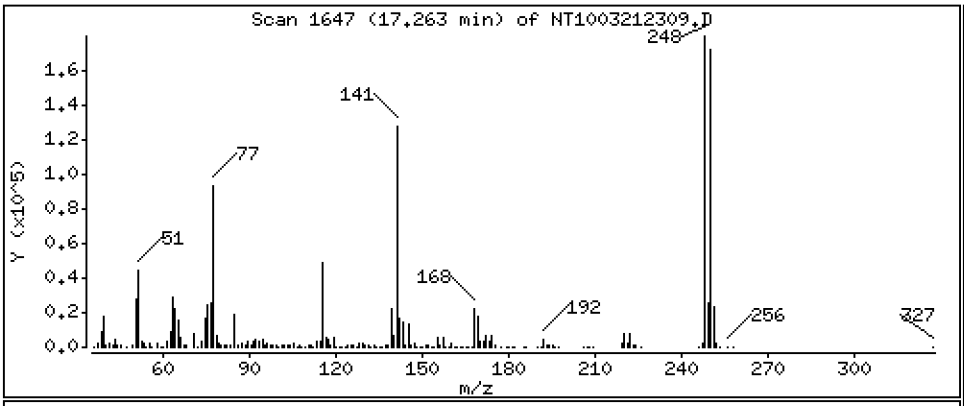
Operator: VTS

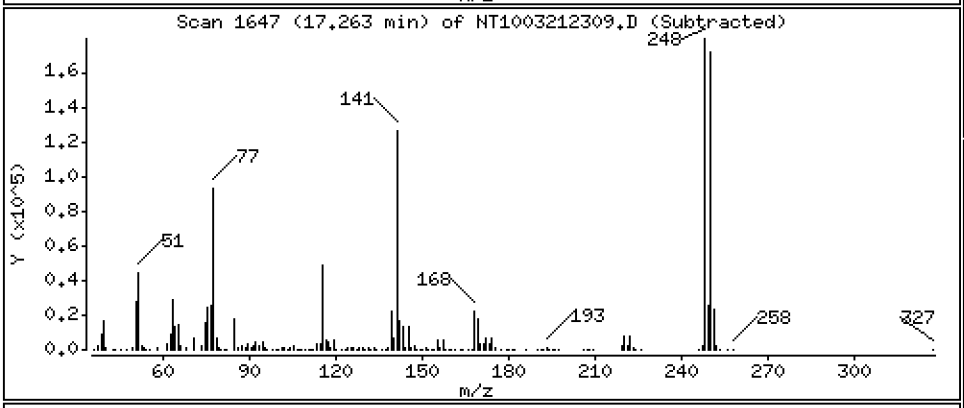
Column phase: ZB-5msi

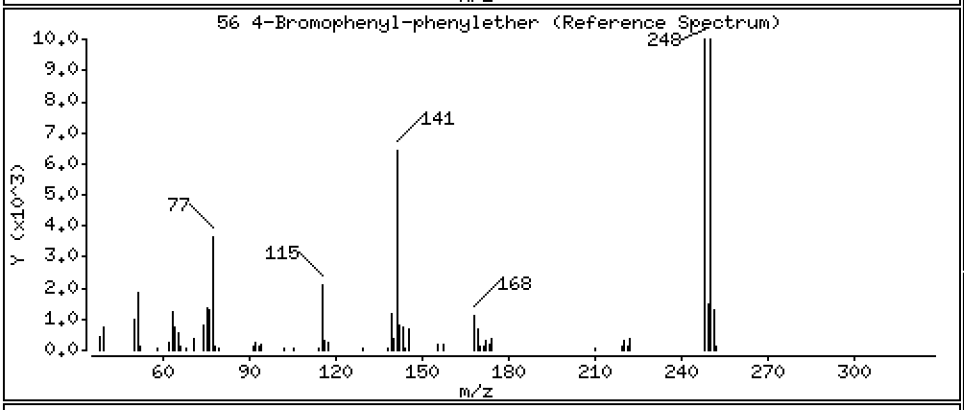
Column diameter: 0.25

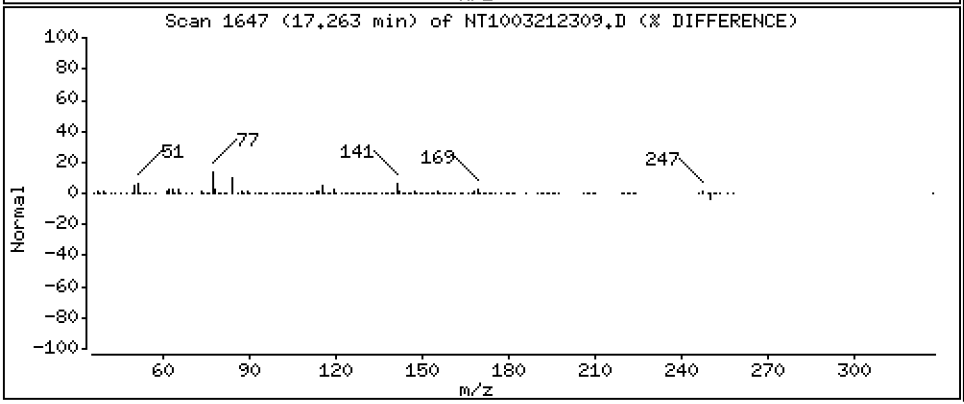
56 4-Bromophenyl-phenylether

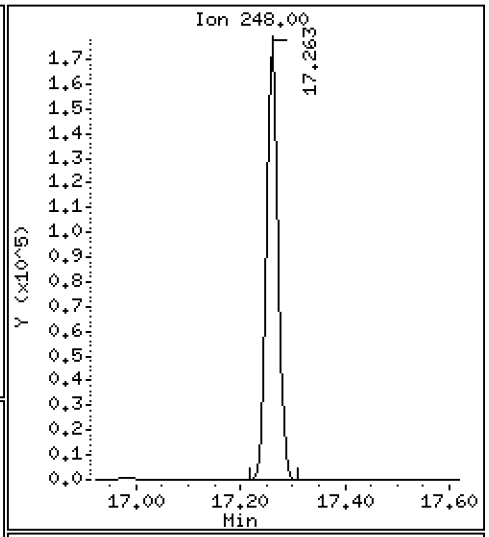
Concentration: 7.354 ug/mL

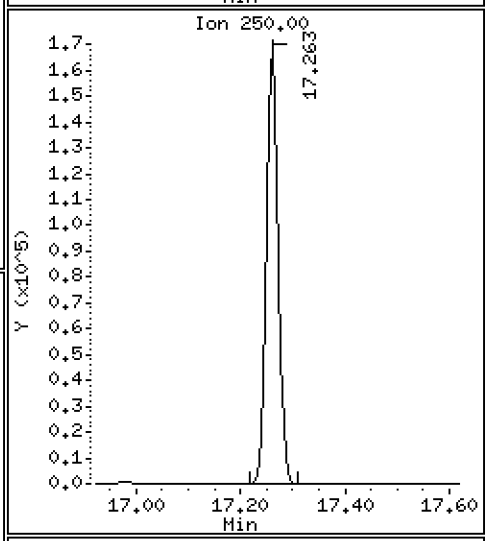


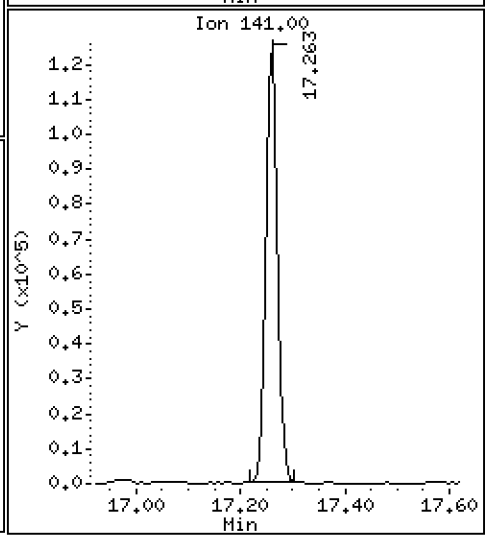












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Date : 21-MAR-2023 22:18

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-SRM1

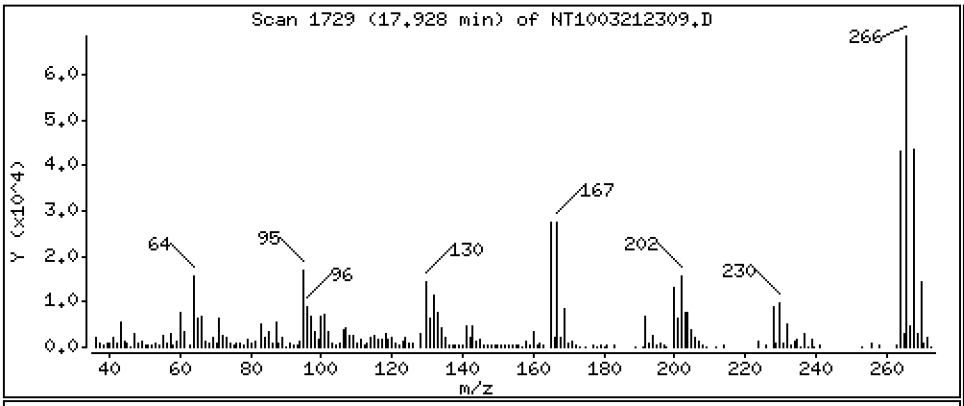
Operator: VTS

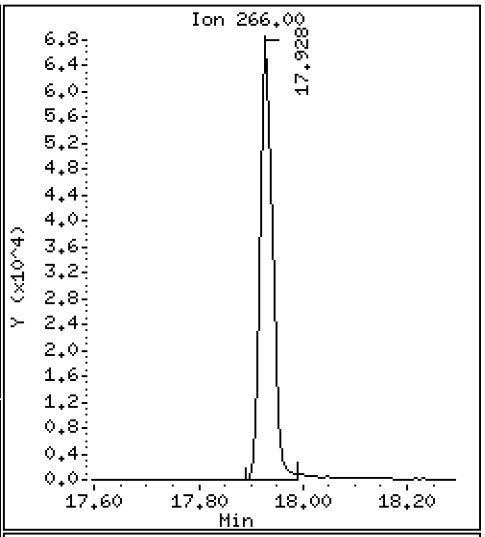
Column phase: ZB-5msi

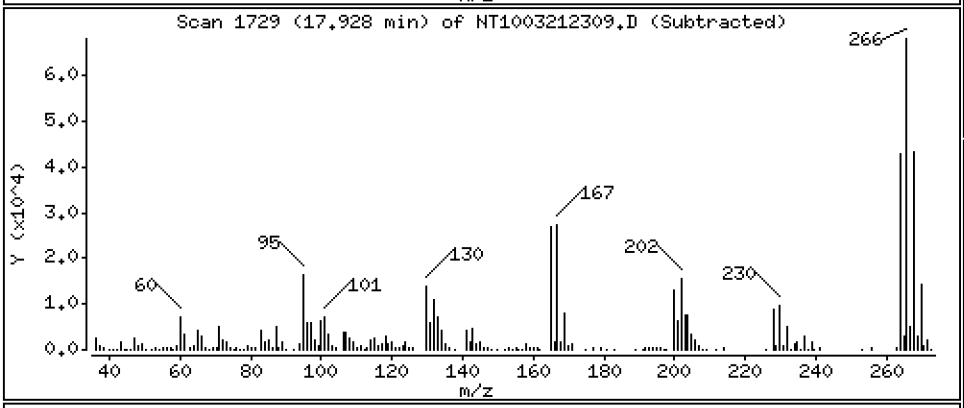
Column diameter: 0.25

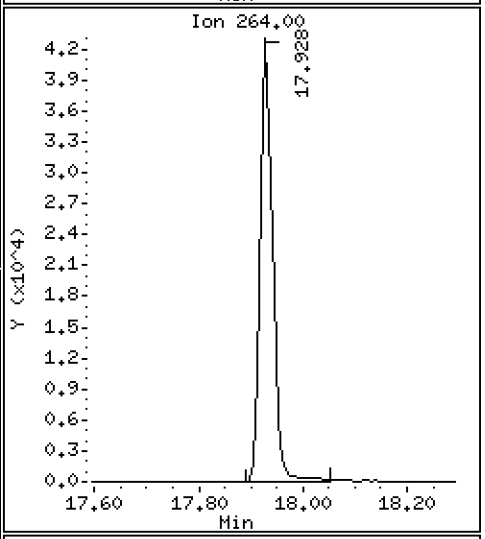
58 Pentachlorophenol

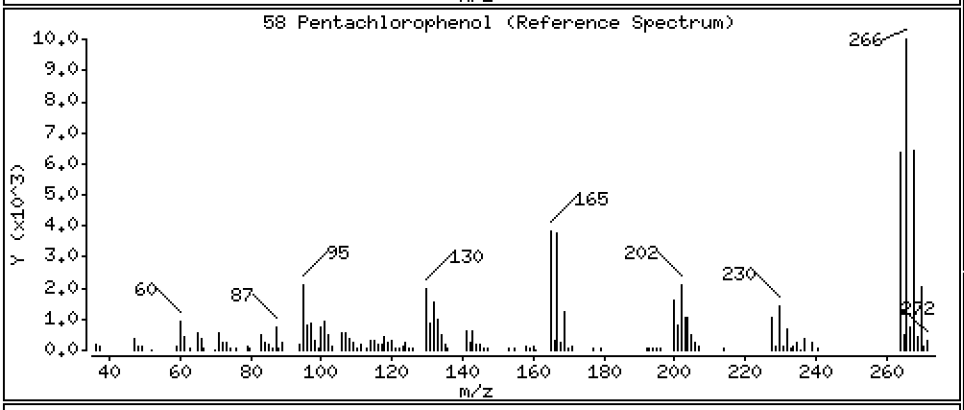
Concentration: 4.584 ug/mL

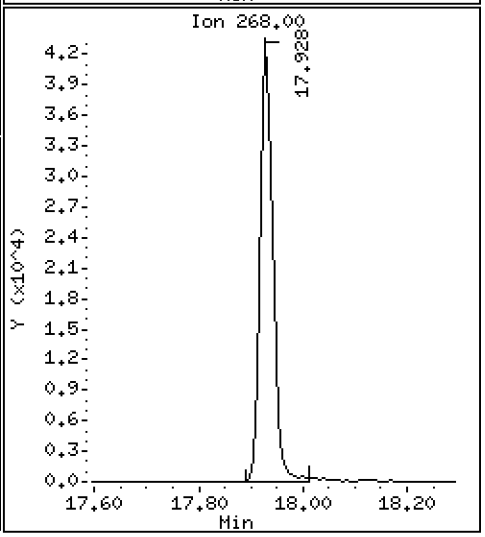


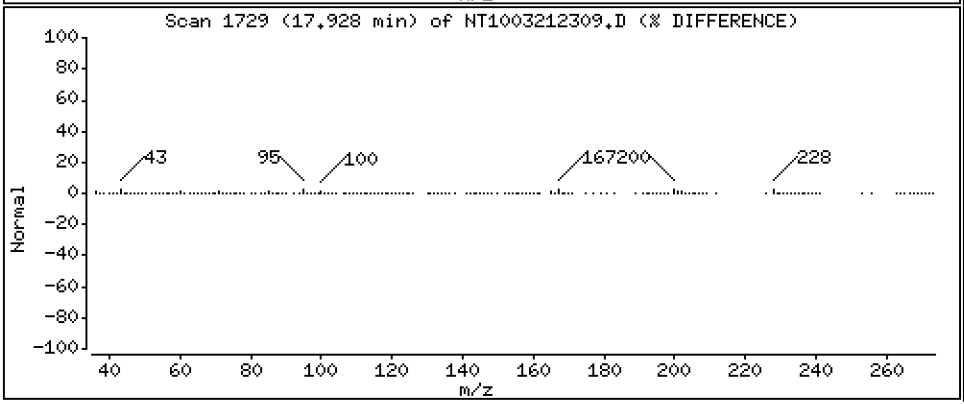












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Date : 21-MAR-2023 22:18

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-SRM1

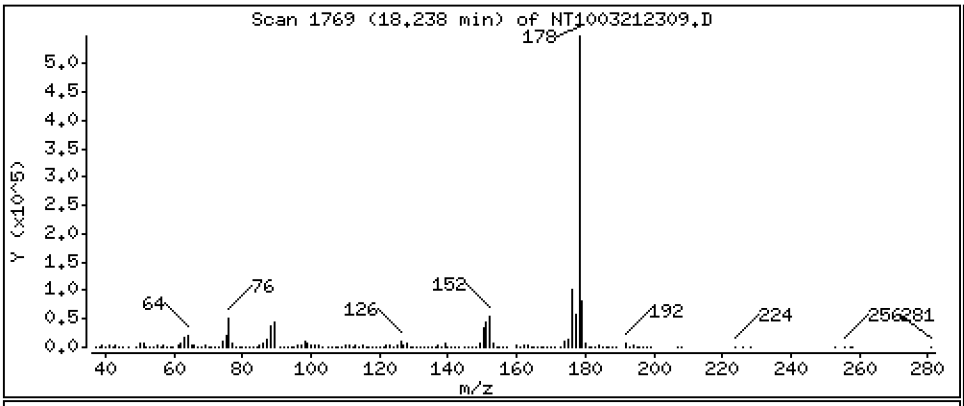
Operator: VTS

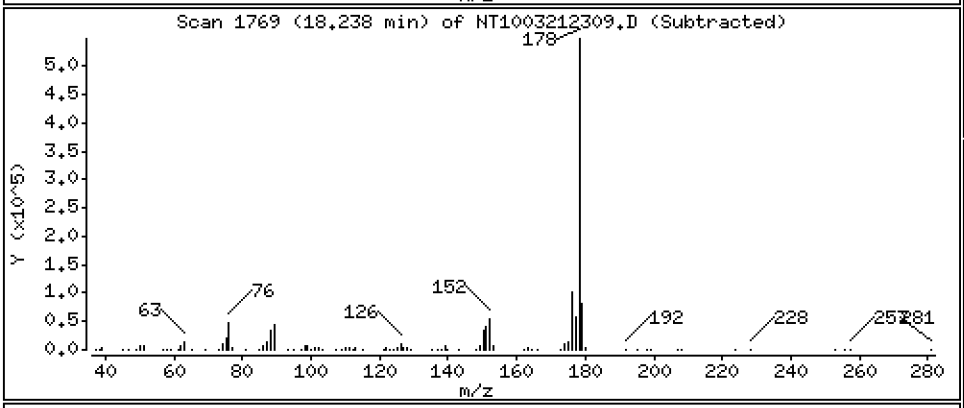
Column phase: ZB-5msi

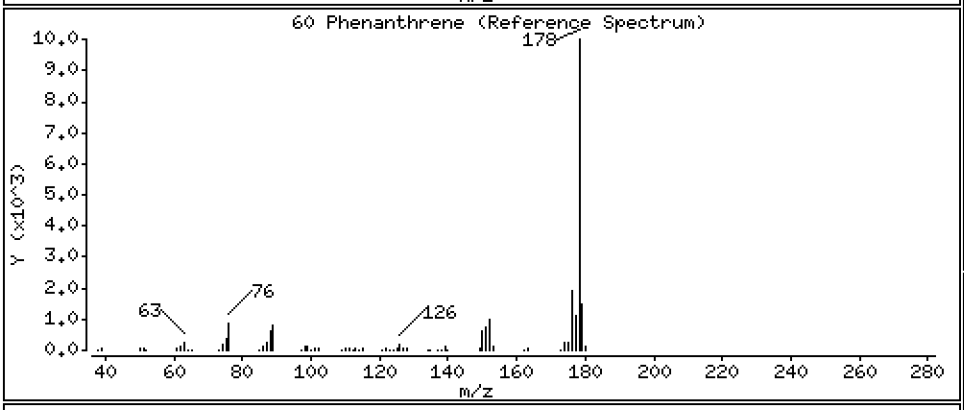
Column diameter: 0.25

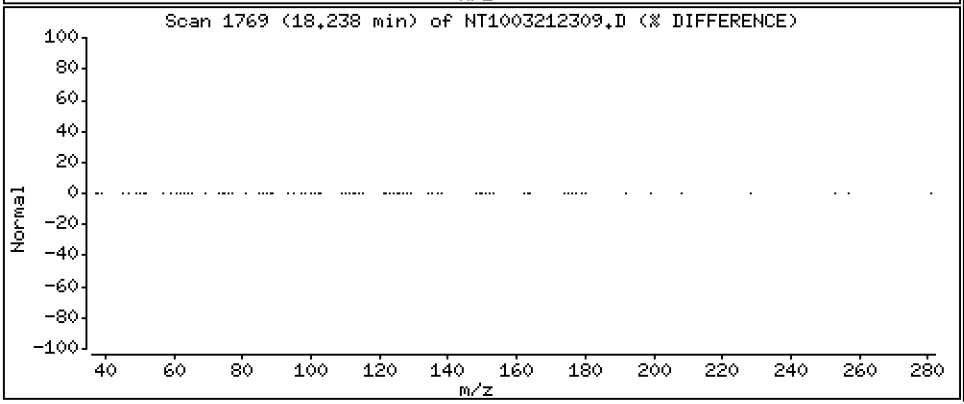
60 Phenanthrene

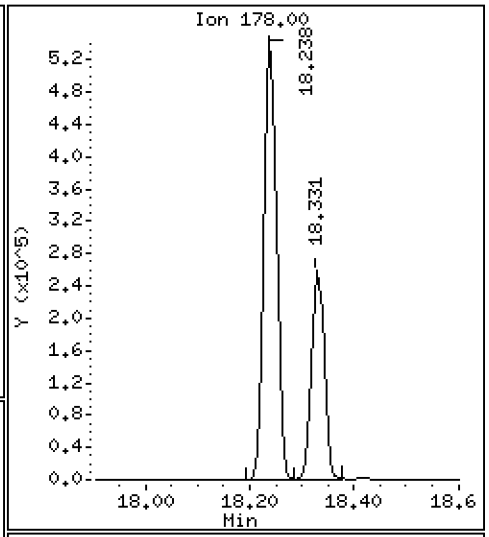
Concentration: 4.813 ug/mL

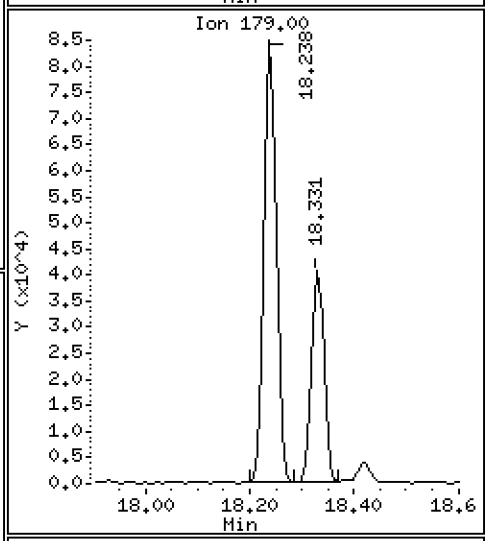


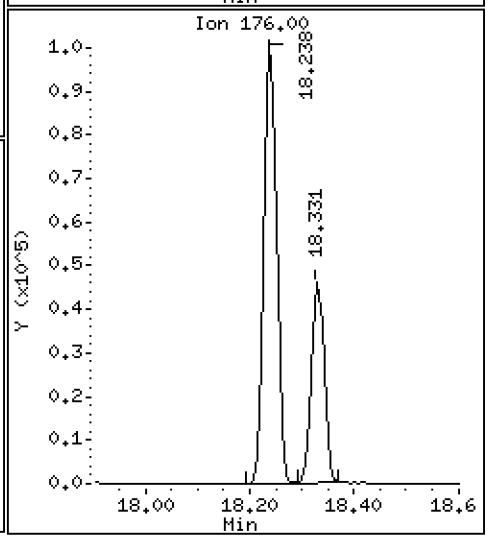












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212309.D

Date : 21-MAR-2023 22:18

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-SRM1

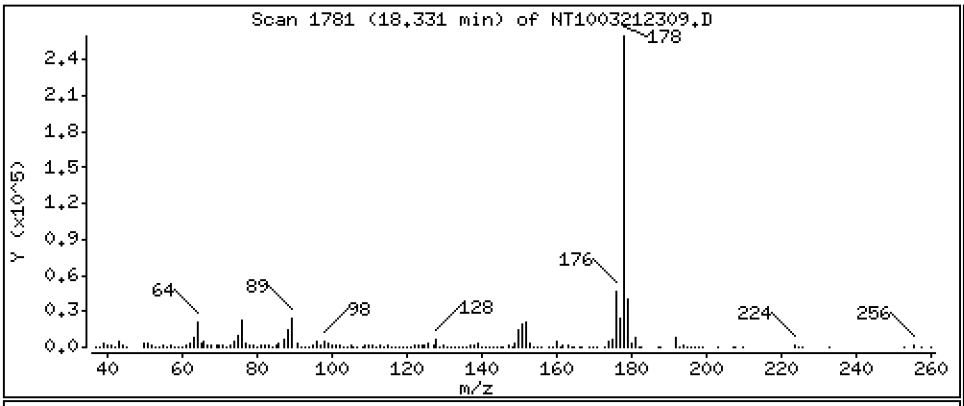
Operator: VTS

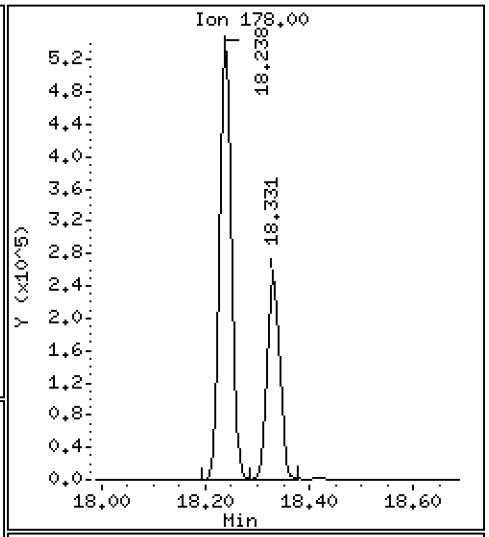
Column phase: ZB-5msi

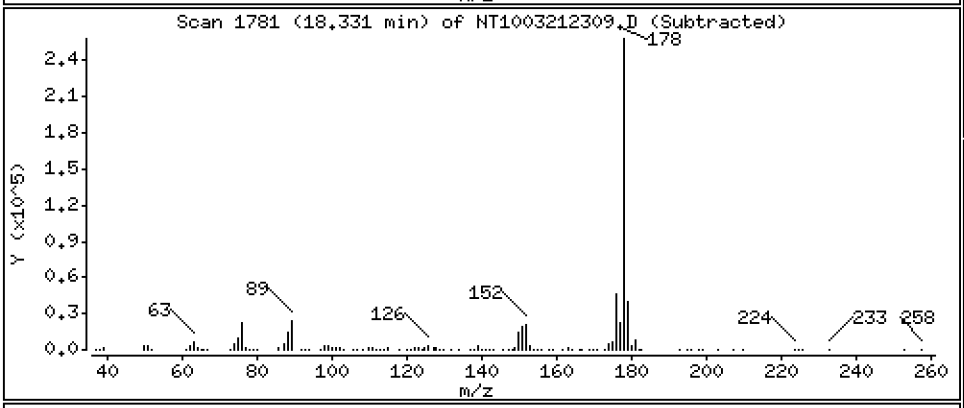
Column diameter: 0.25

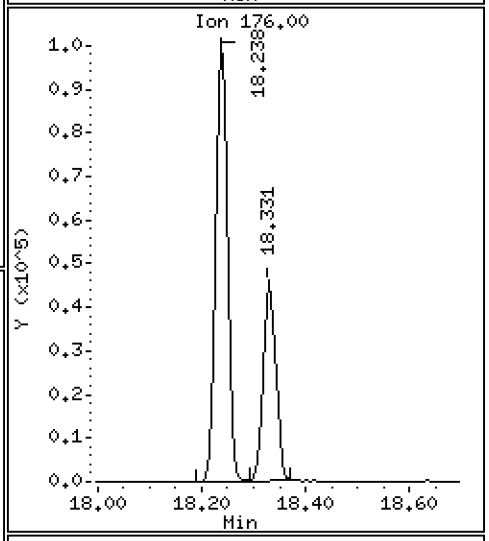
61 Anthracene

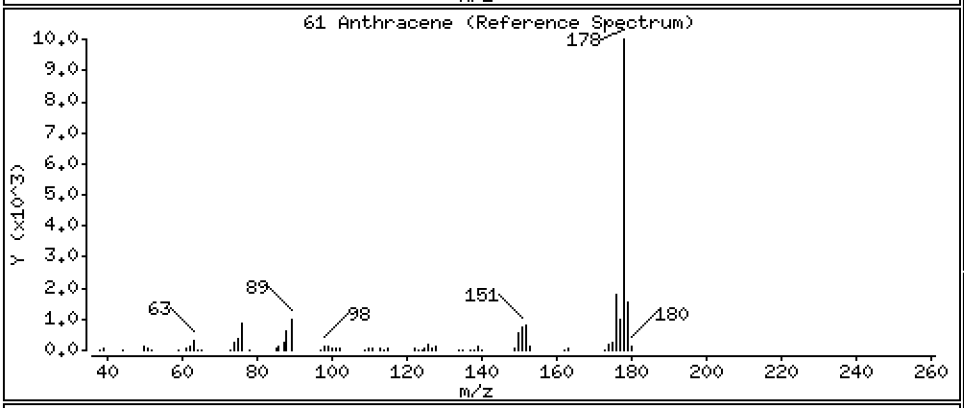
Concentration: 2.322 ug/mL

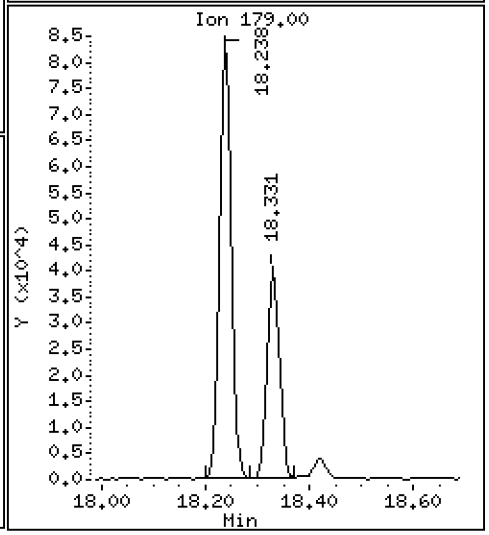


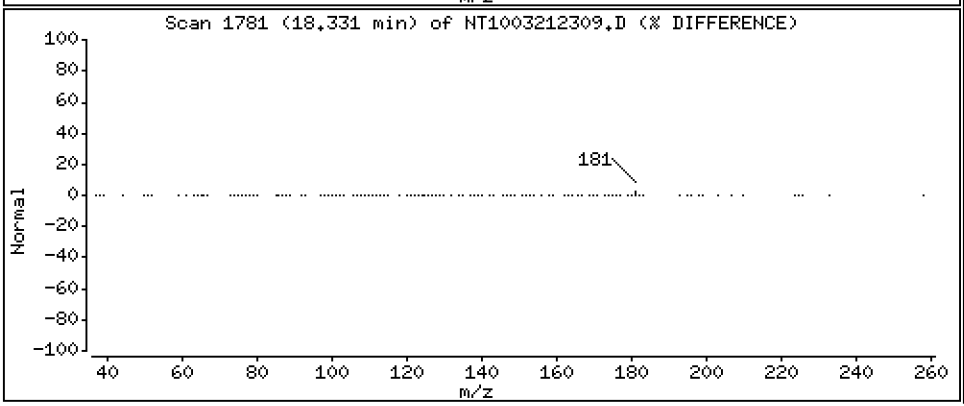












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Date : 21-MAR-2023 22:18

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-SRM1

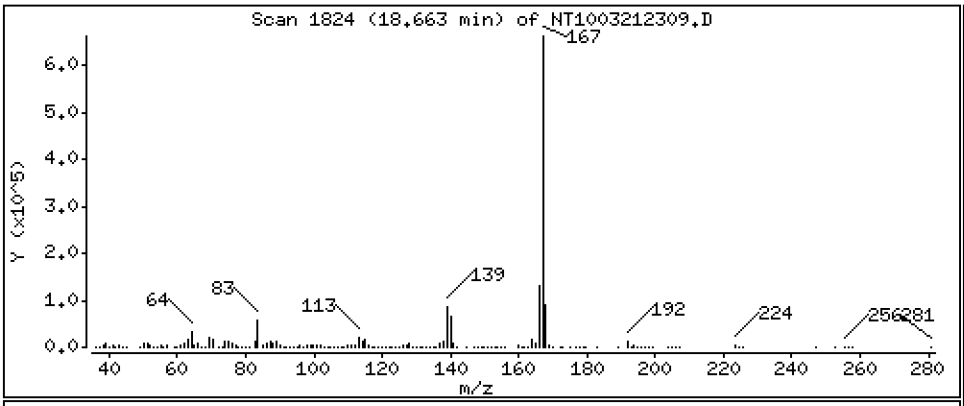
Operator: VTS

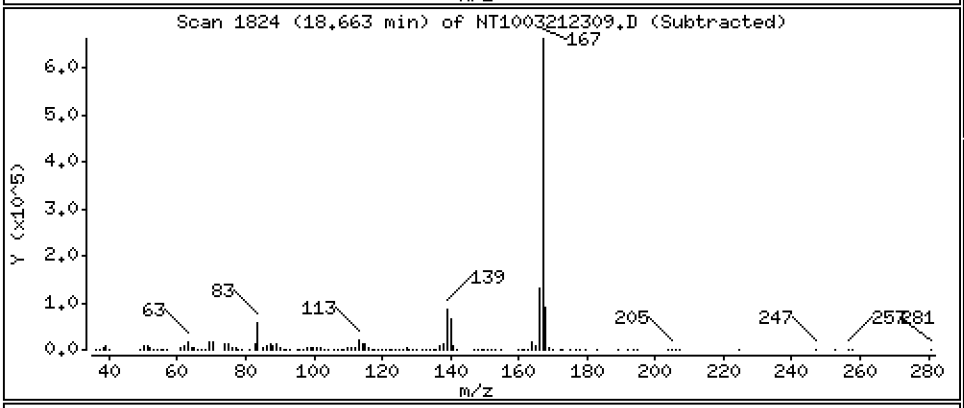
Column phase: ZB-5msi

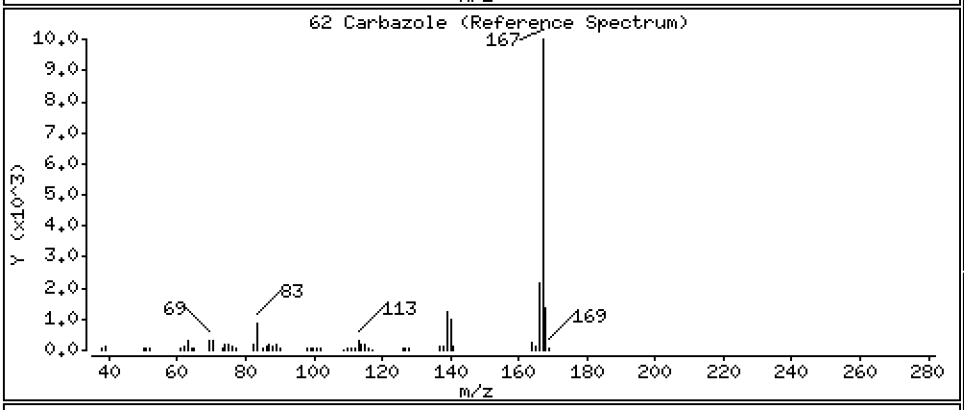
Column diameter: 0.25

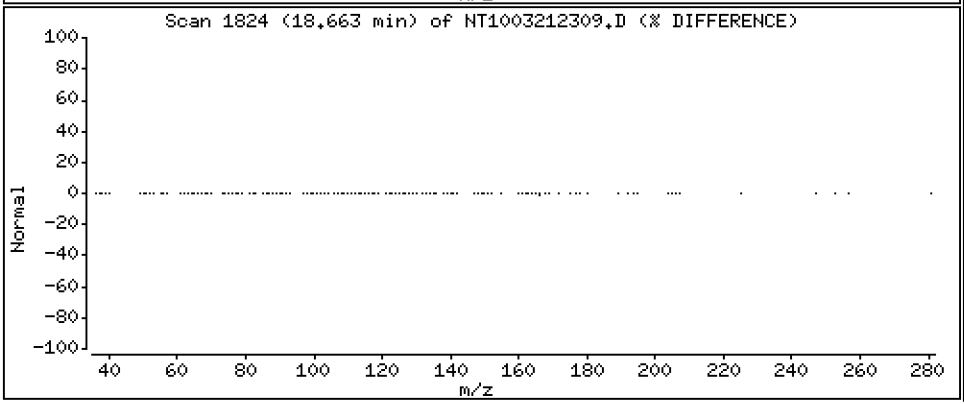
62 Carbazole

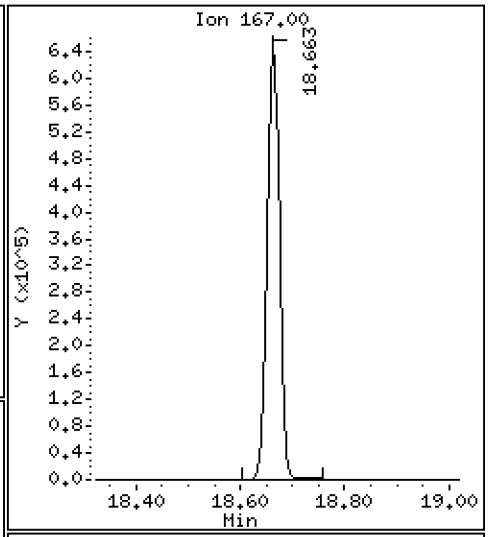
Concentration: 6.327 ug/mL

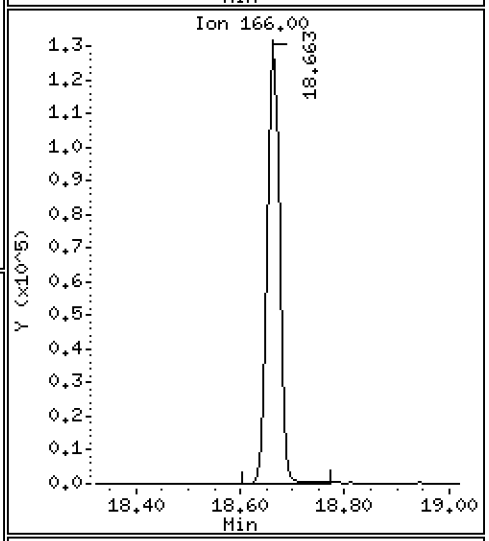


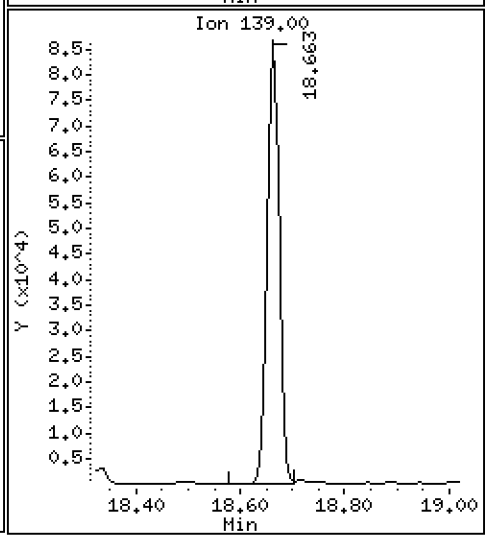












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Date : 21-MAR-2023 22:18

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-SRM1

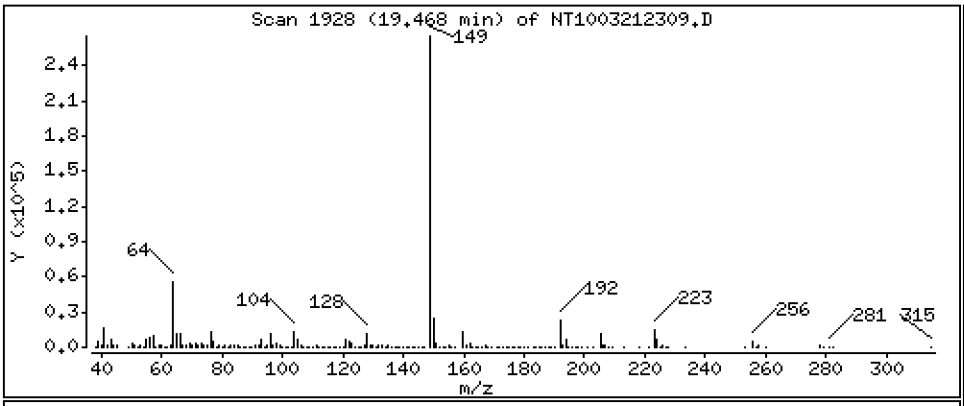
Operator: VTS

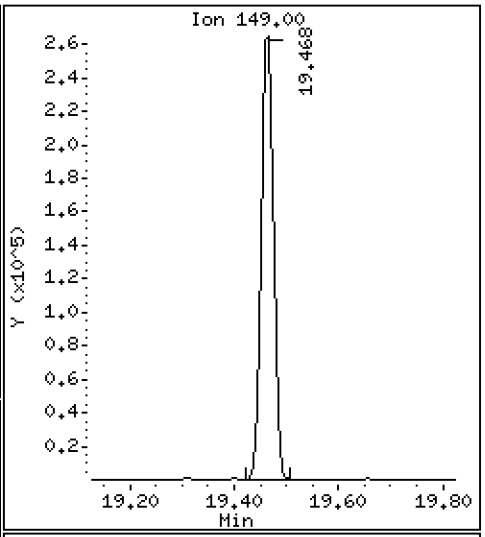
Column phase: ZB-5msi

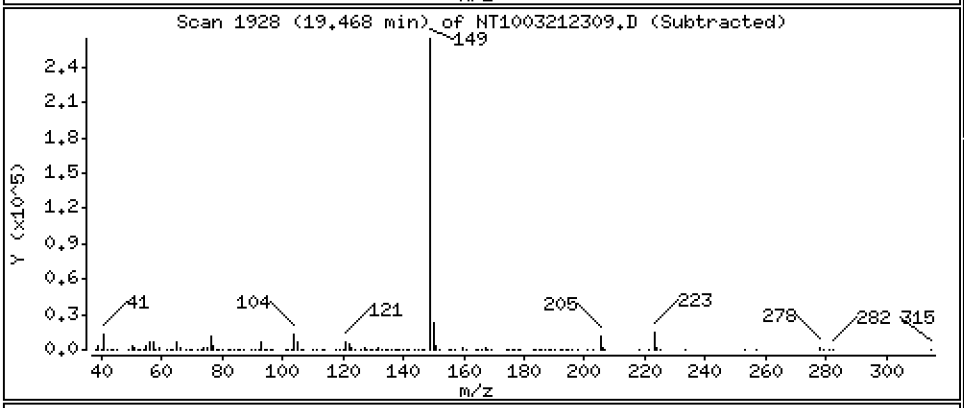
Column diameter: 0.25

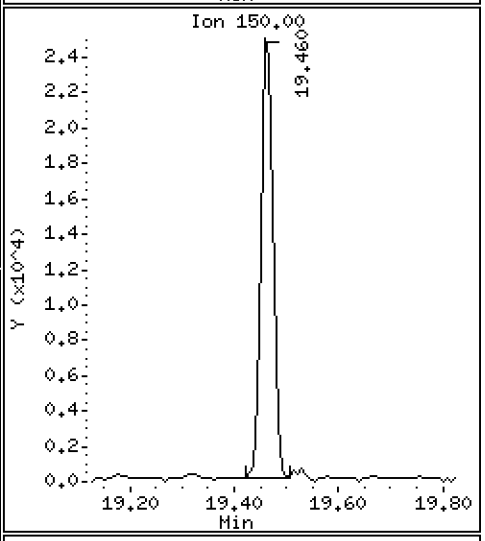
63 Di-n-butylphthalate

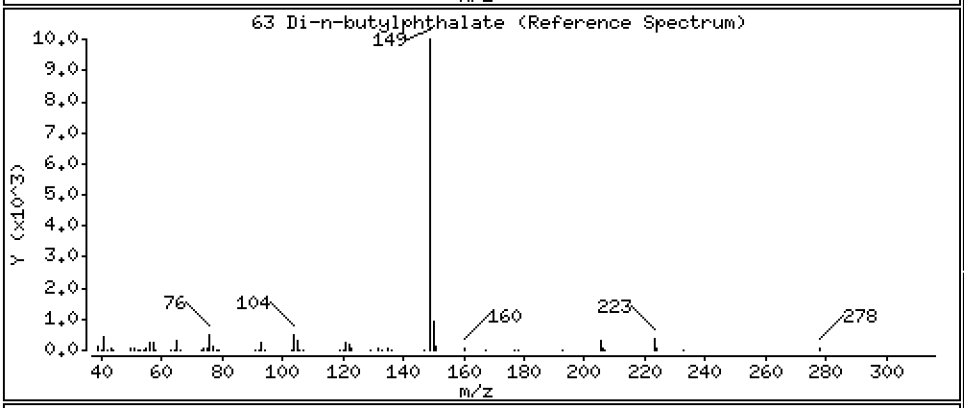
Concentration: 1.922 ug/mL

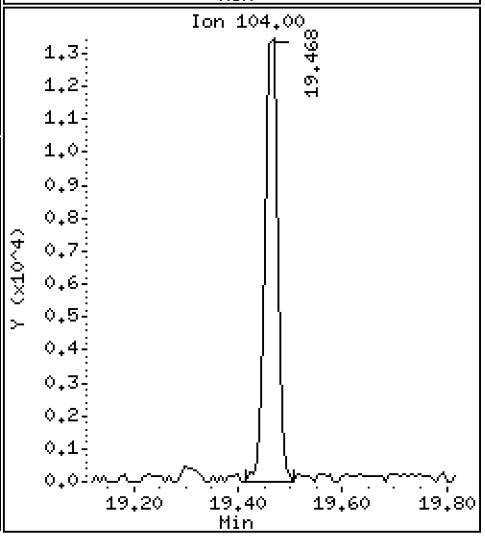


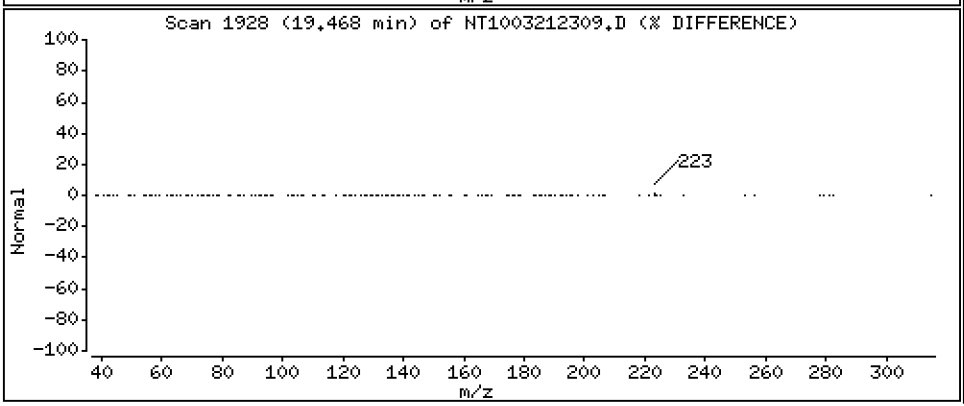












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Date : 21-MAR-2023 22:18

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-SRM1

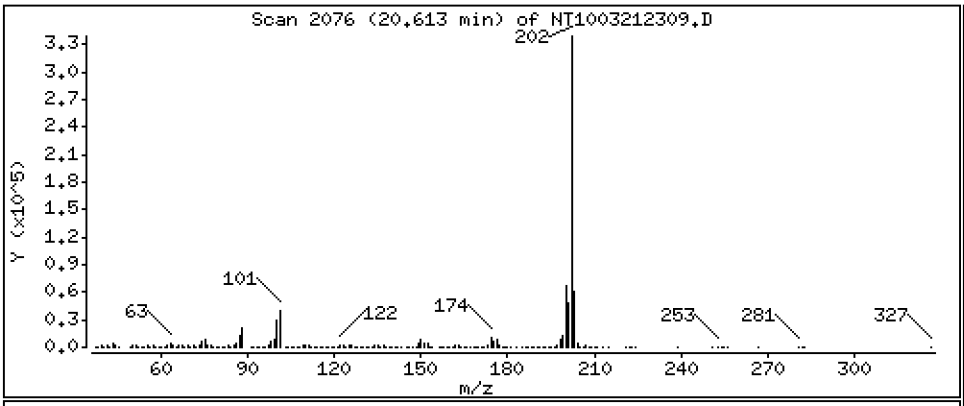
Operator: VTS

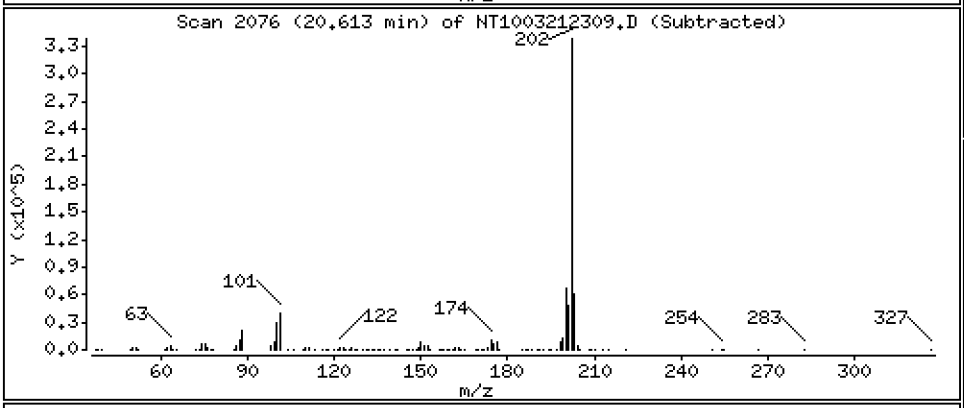
Column phase: ZB-5msi

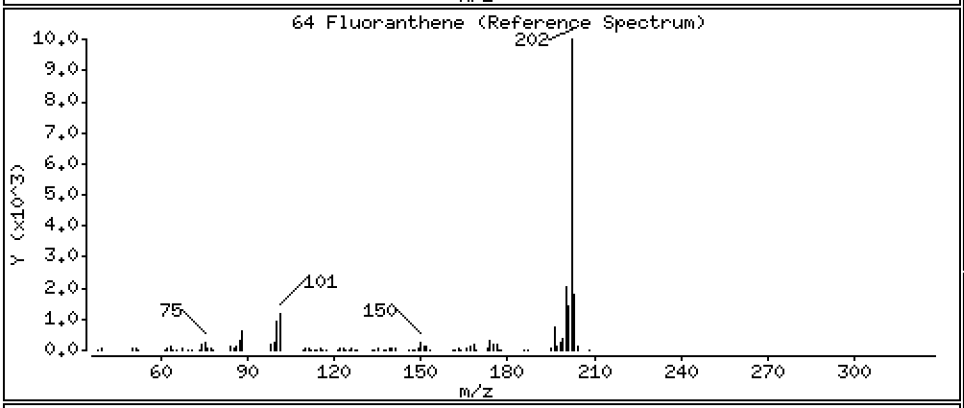
Column diameter: 0.25

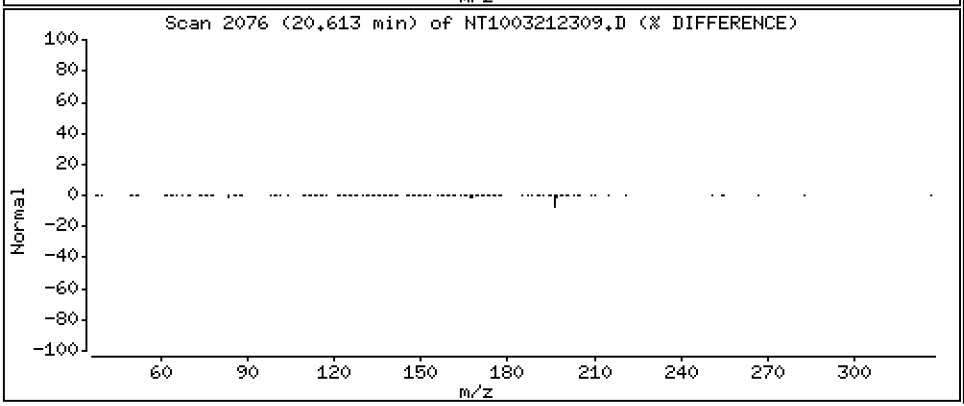
64 Fluoranthene

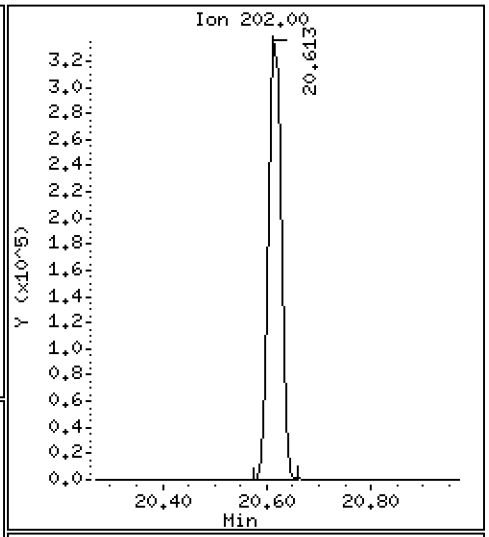
Concentration: 2.415 ug/mL

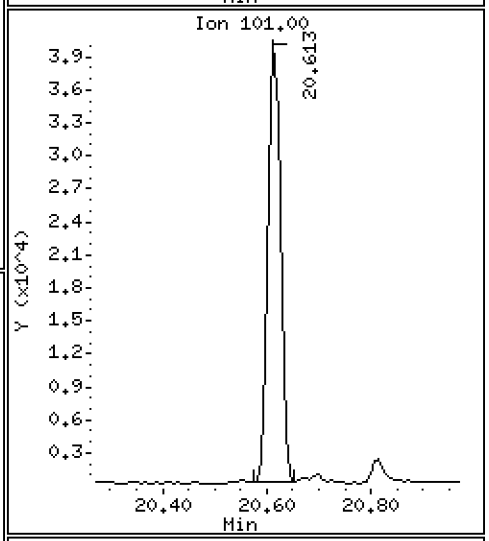


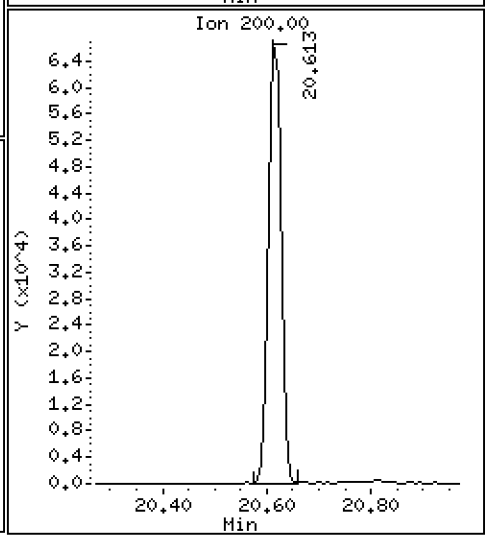












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Date : 21-MAR-2023 22:18

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-SRM1

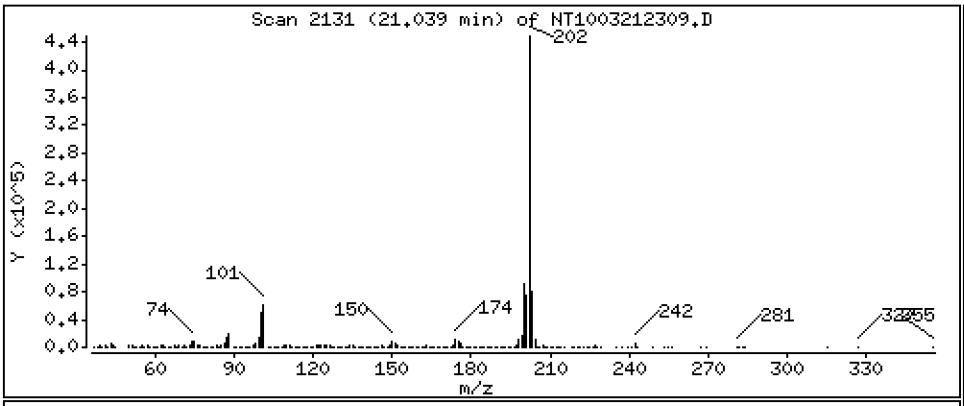
Operator: VTS

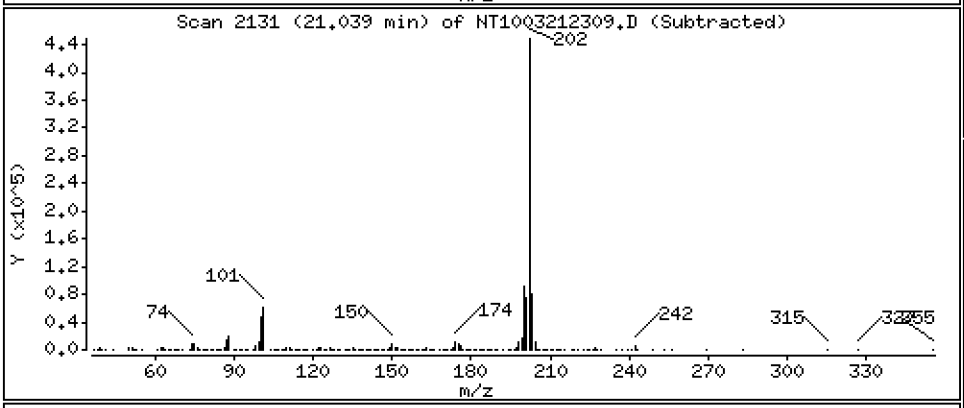
Column phase: ZB-5msi

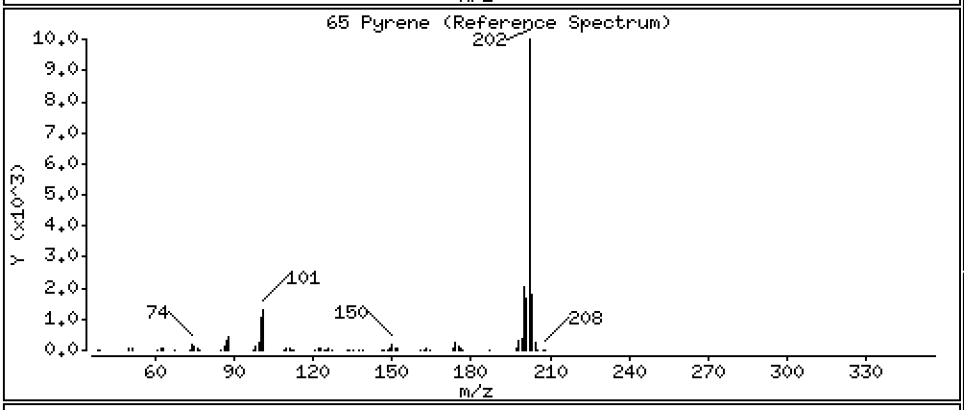
Column diameter: 0.25

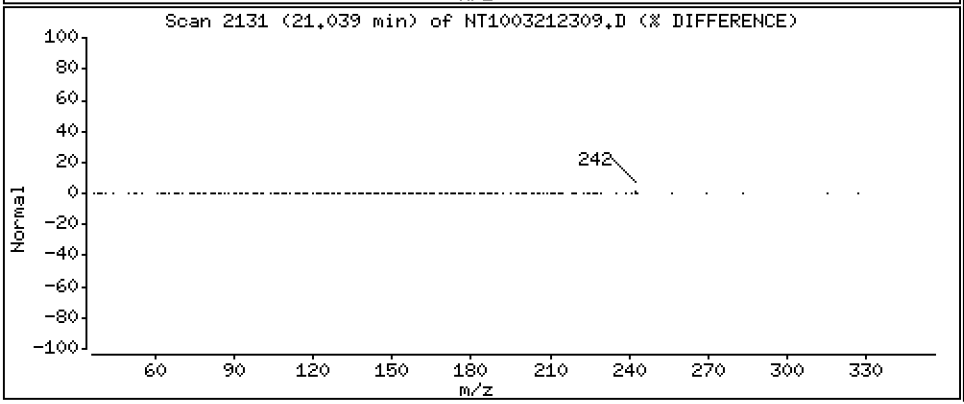
65 Pyrene

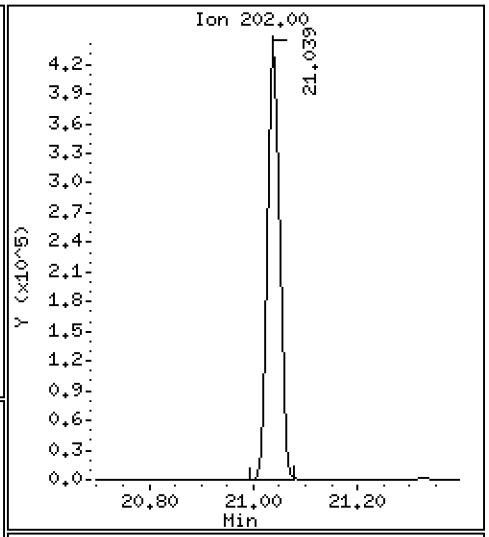
Concentration: 3.034 ug/mL

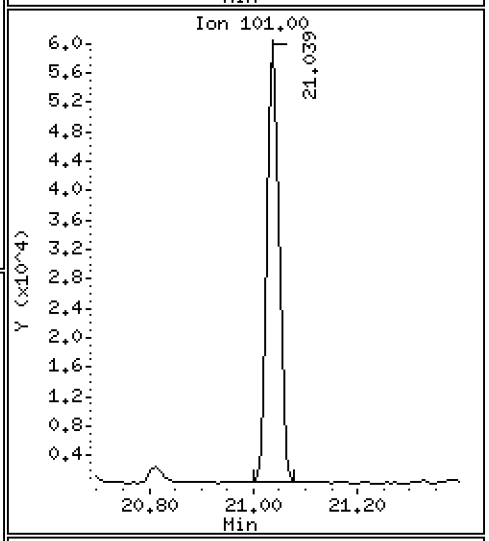


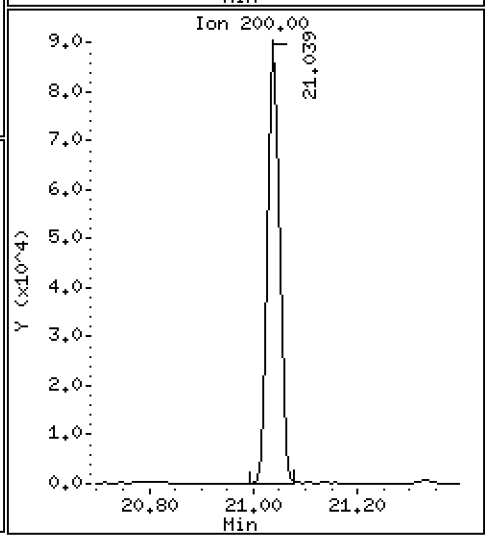












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Date : 21-MAR-2023 22:18

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-SRM1

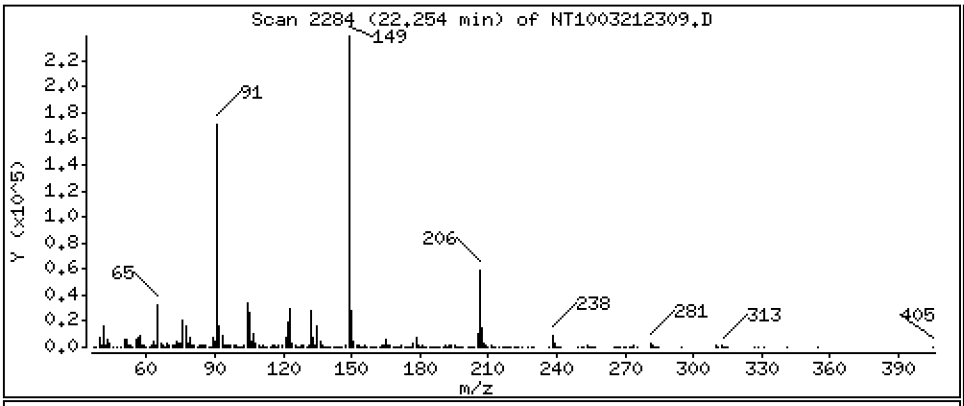
Operator: VTS

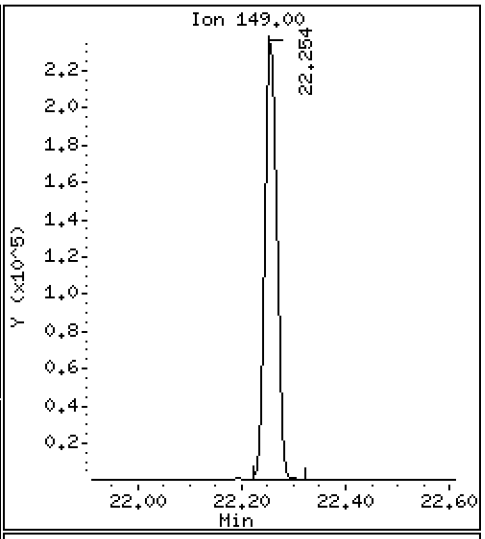
Column phase: ZB-5msi

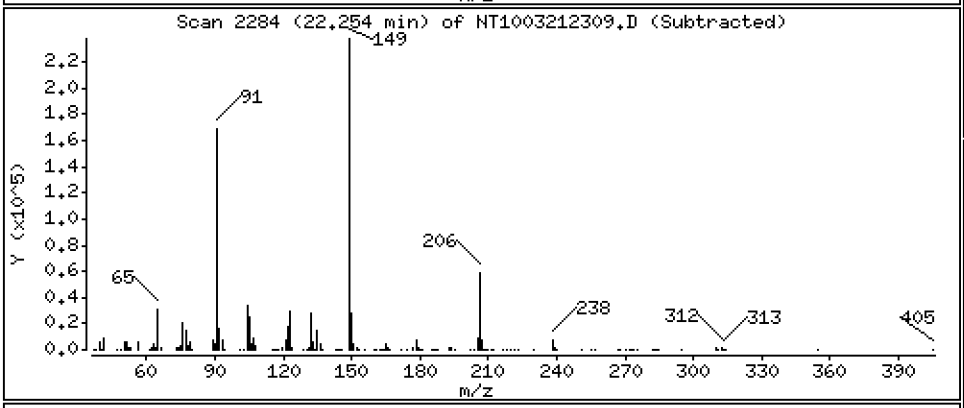
Column diameter: 0.25

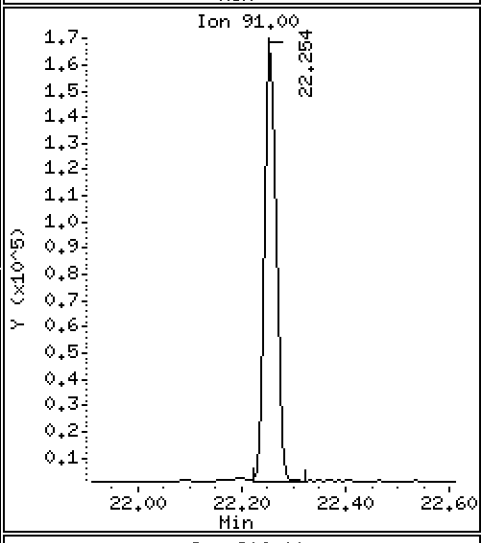
67 Butylbenzylphthalate

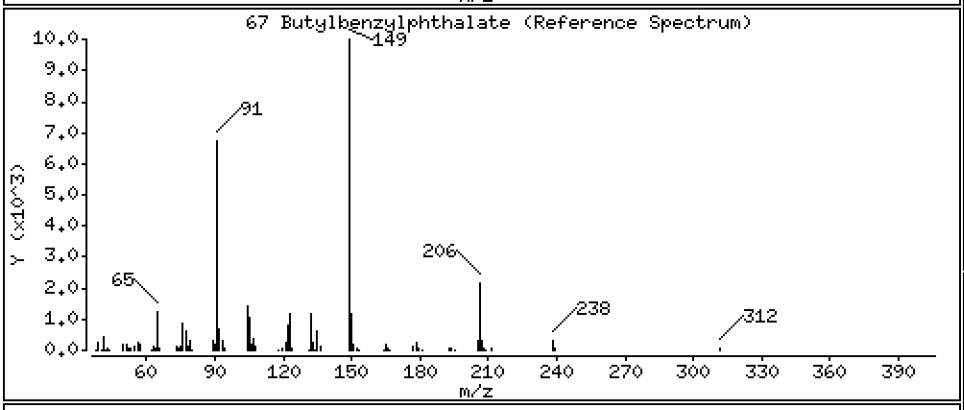
Concentration: 4.355 ug/mL

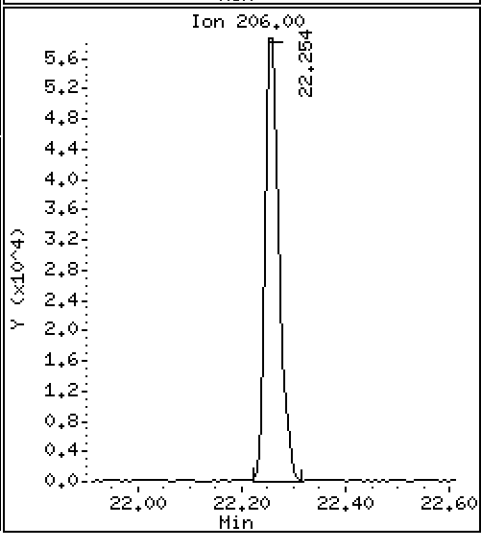


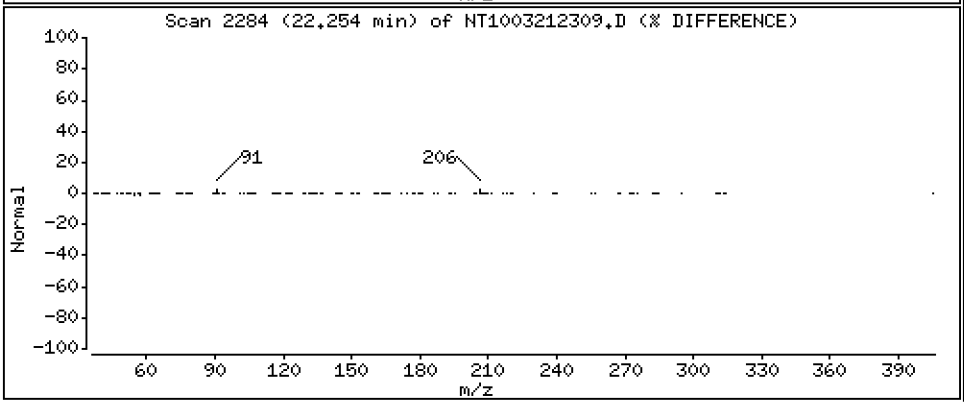












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Date : 21-MAR-2023 22:18

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-SRM1

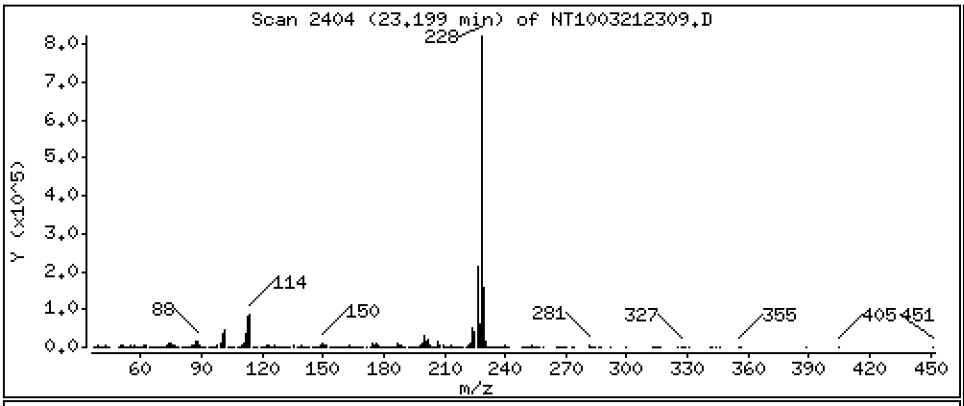
Operator: VTS

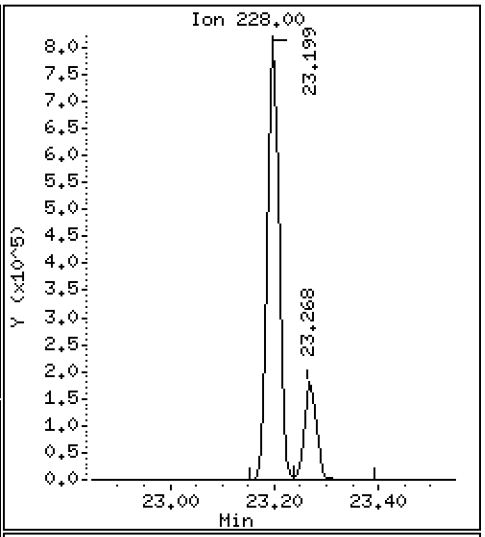
Column phase: ZB-5msi

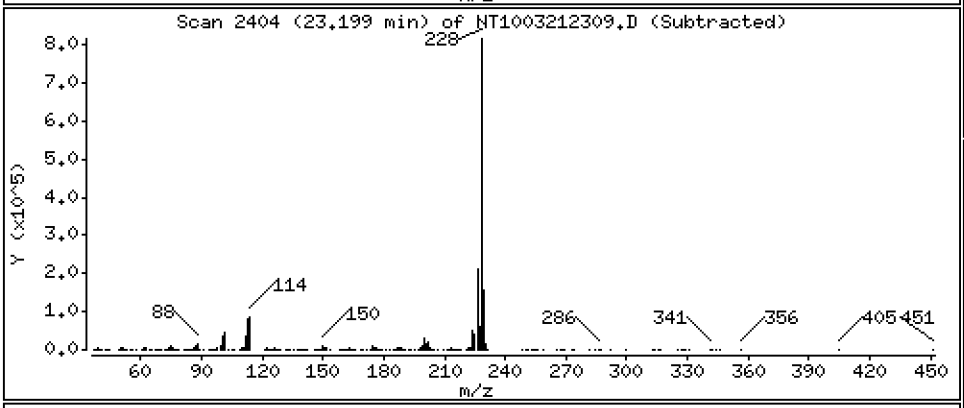
Column diameter: 0.25

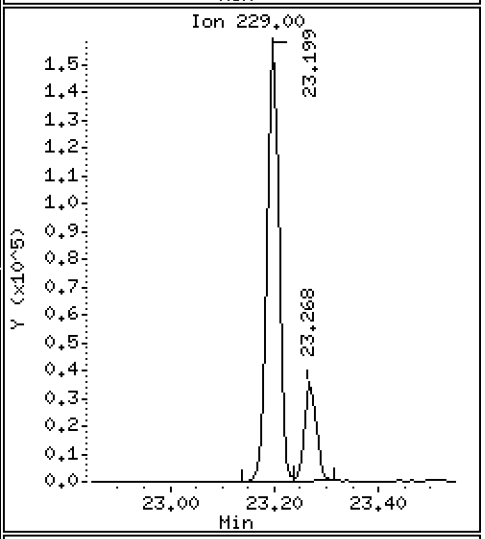
68 Benzo(a)anthracene

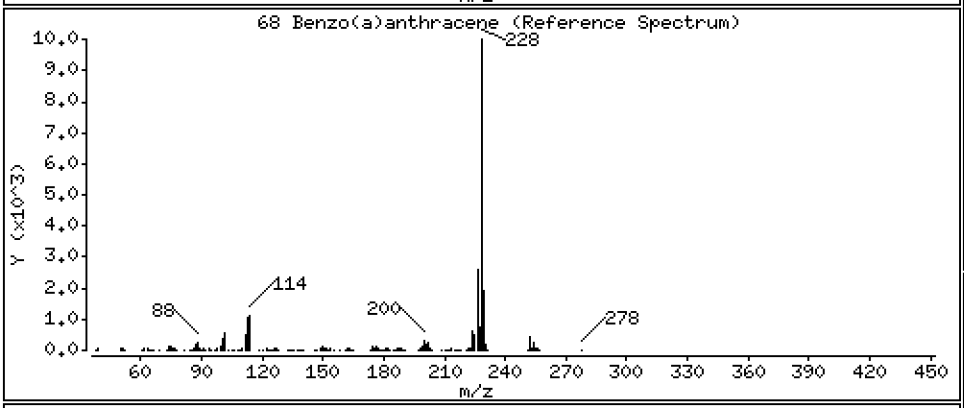
Concentration: 5.985 ug/mL

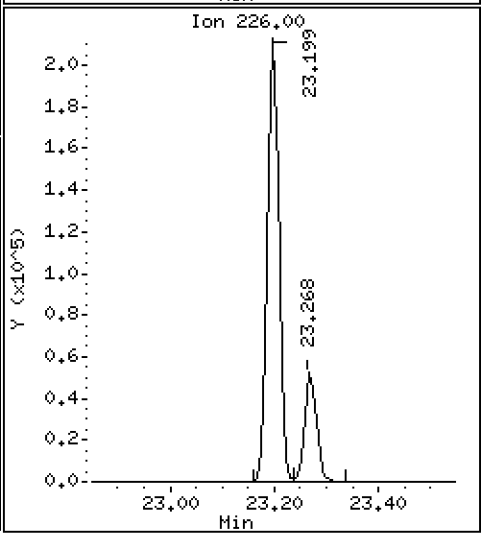


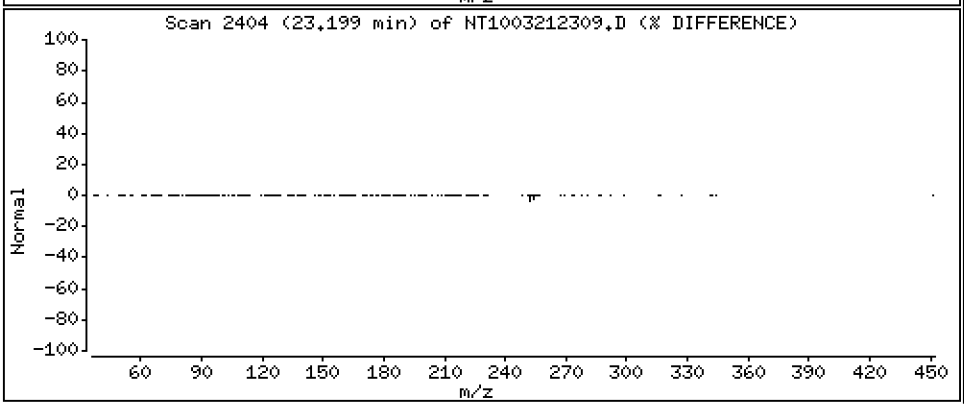












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212309.D

Date : 21-MAR-2023 22:18

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-SRM1

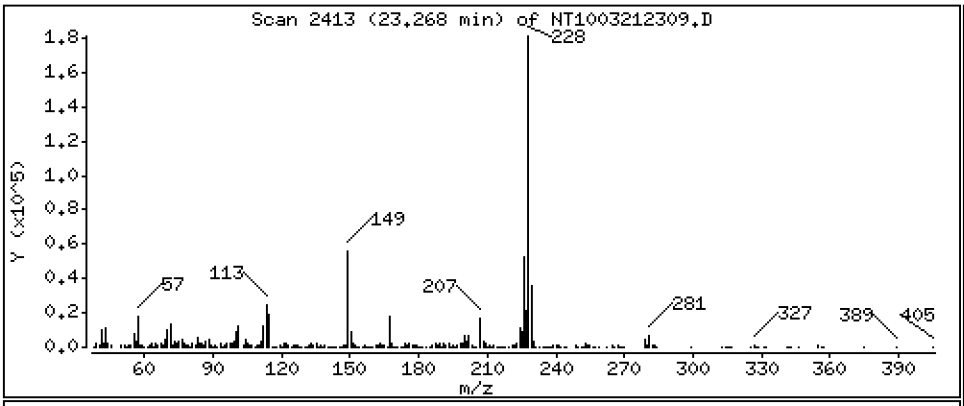
Operator: VTS

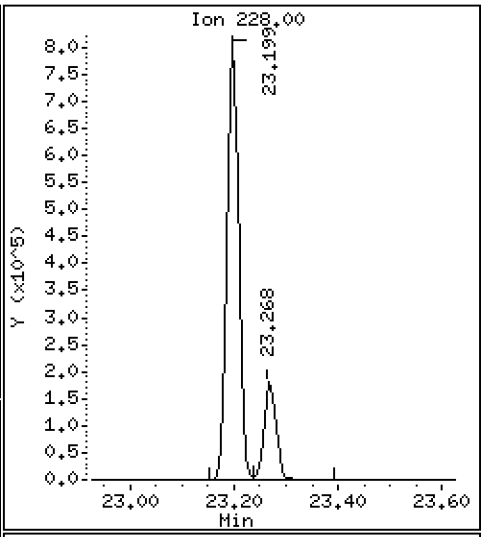
Column phase: ZB-5msi

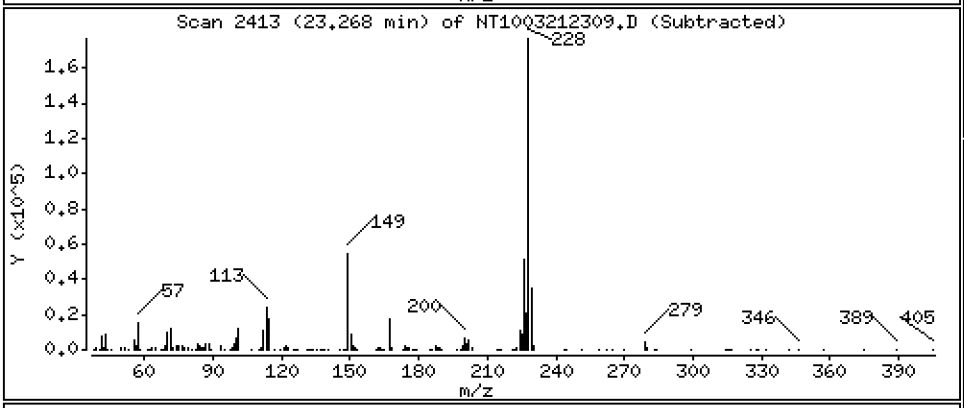
Column diameter: 0.25

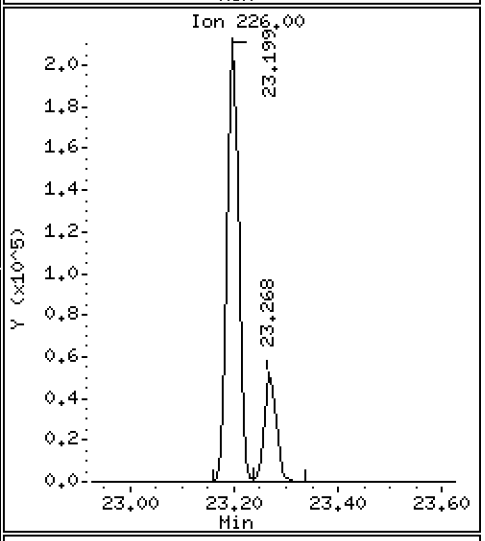
71 Chrysene

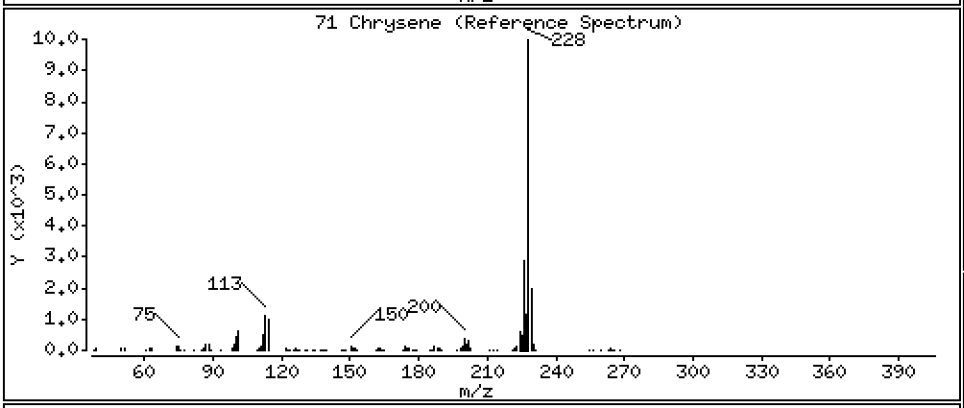
Concentration: 1.446 ug/mL

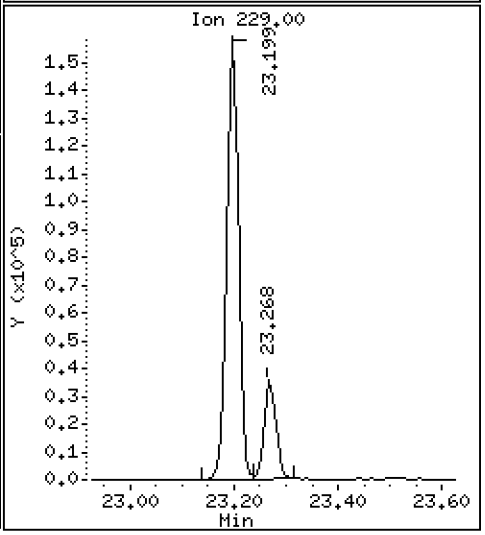


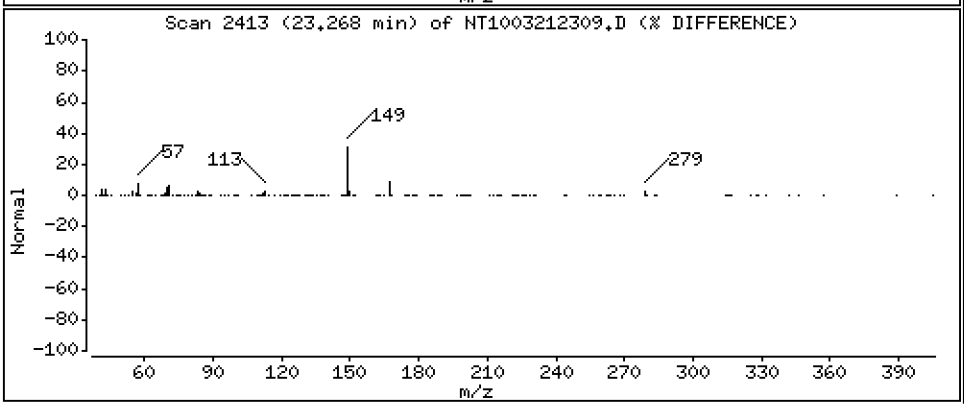












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Date : 21-MAR-2023 22:18

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-SRM1

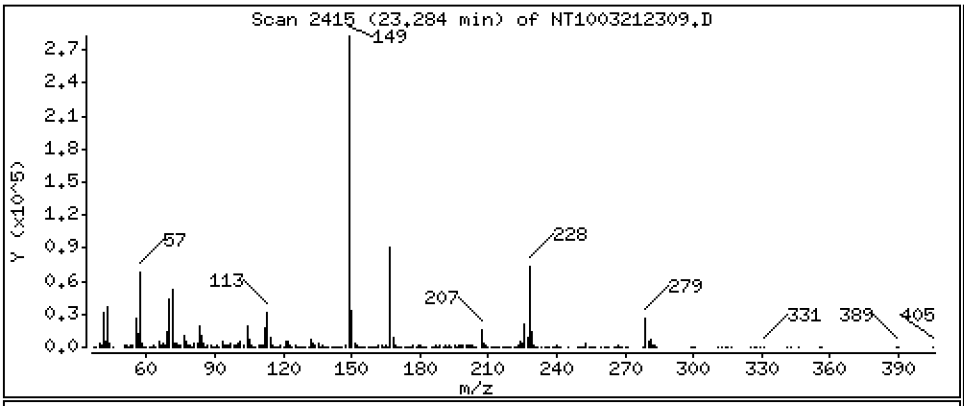
Operator: VTS

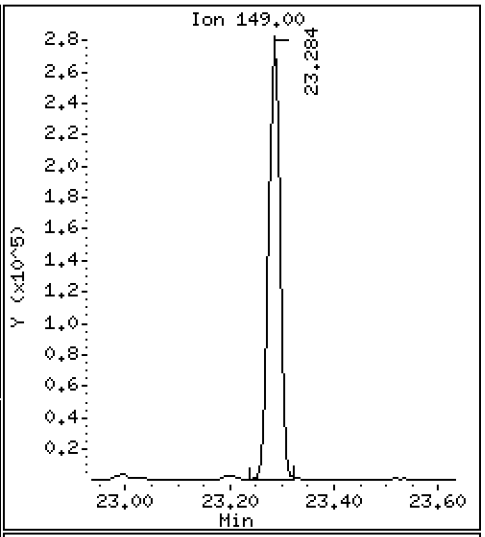
Column phase: ZB-5msi

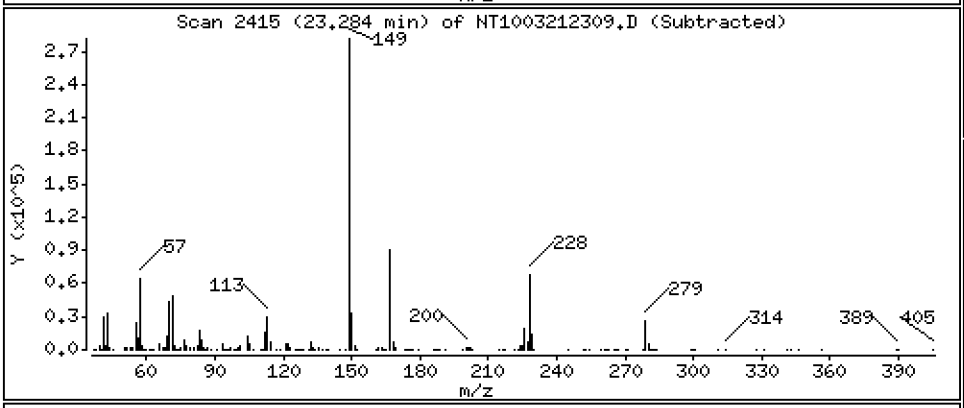
Column diameter: 0.25

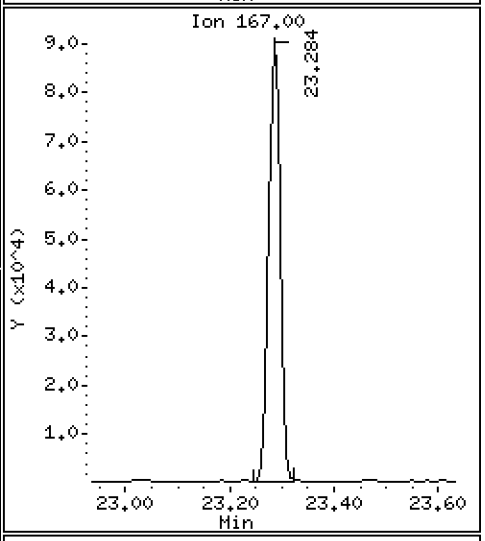
72 bis(2-Ethylhexyl)phthalate

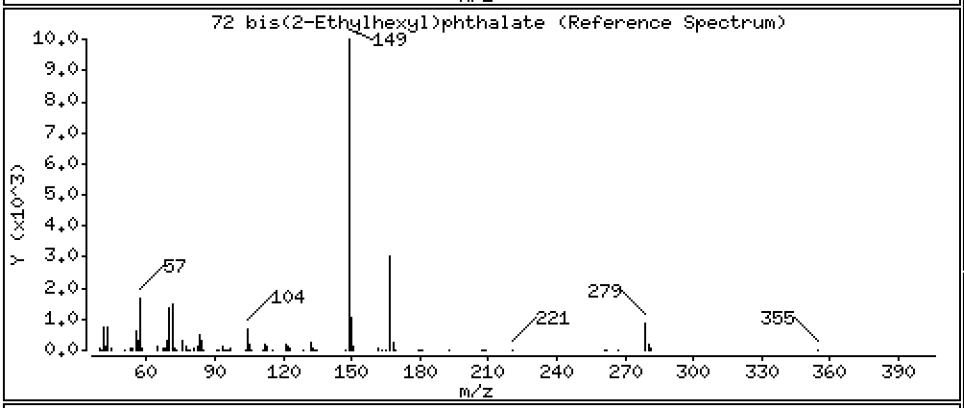
Concentration: 2.812 ug/mL

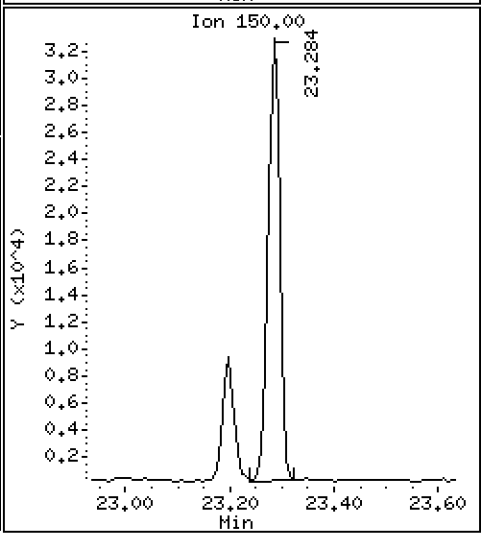


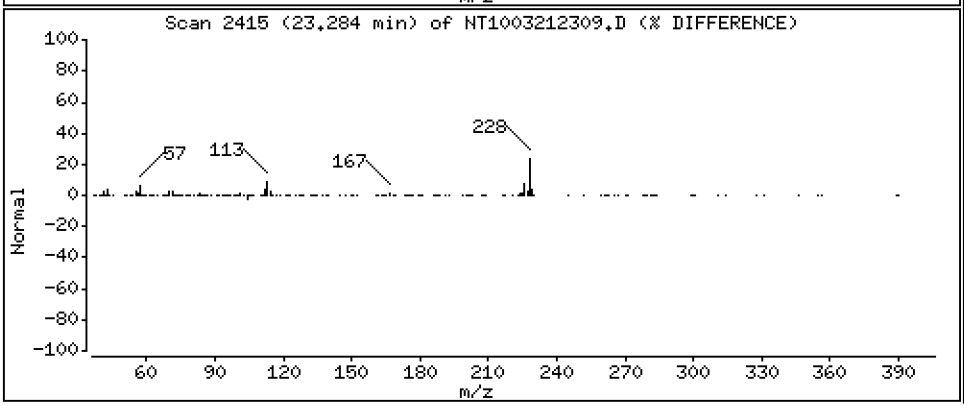












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Date : 21-MAR-2023 22:18

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-SRM1

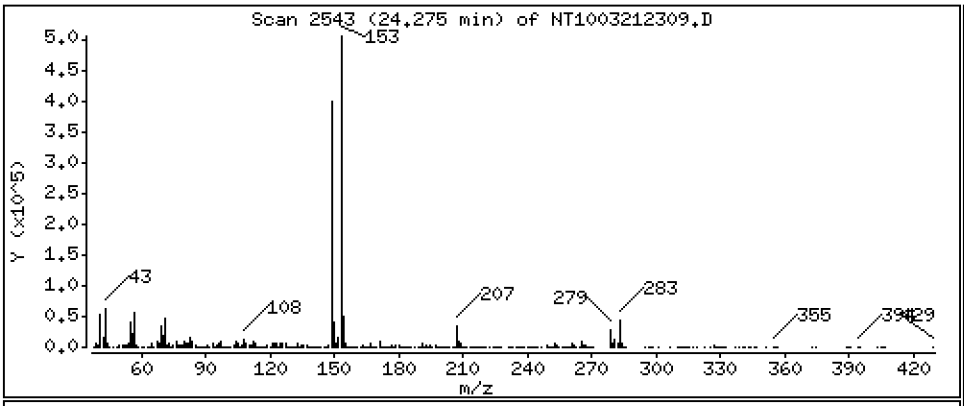
Operator: VTS

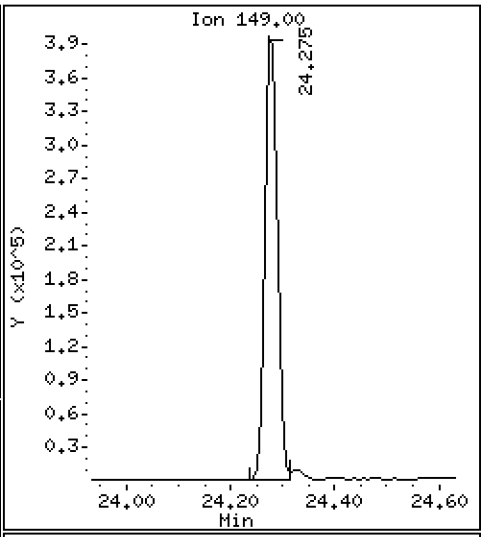
Column phase: ZB-5msi

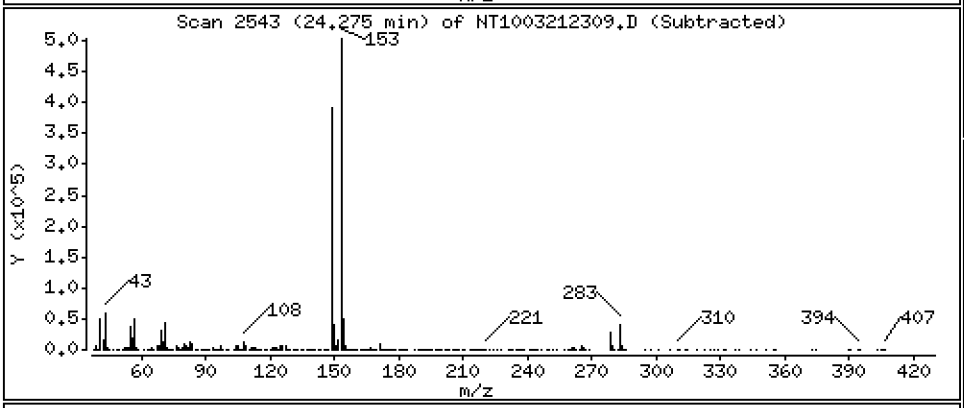
Column diameter: 0.25

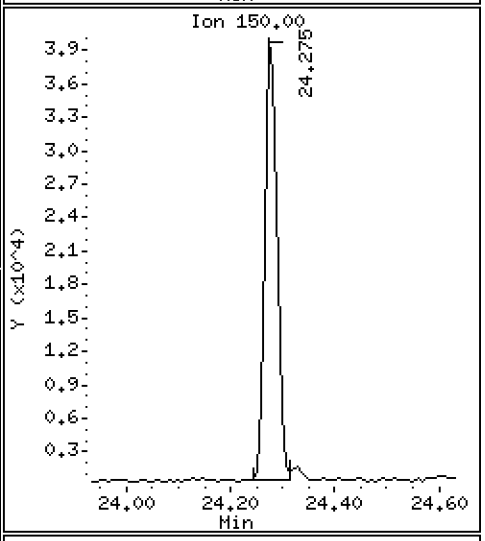
73 Di-n-octylphthalate

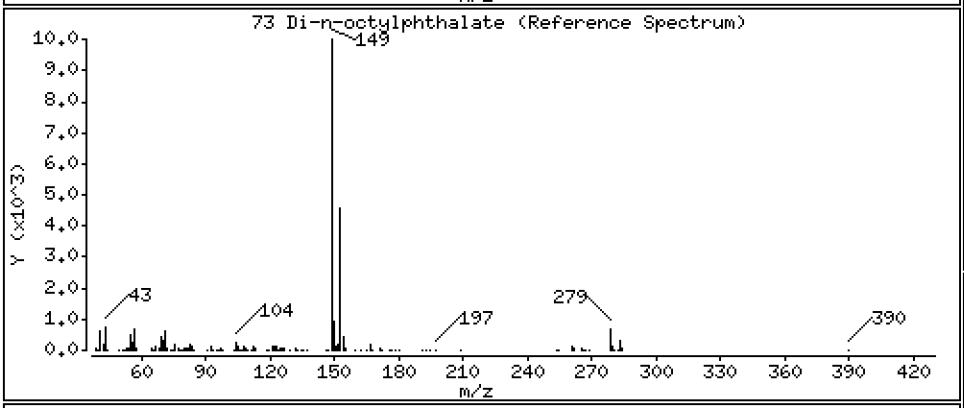
Concentration: 2.502 ug/mL

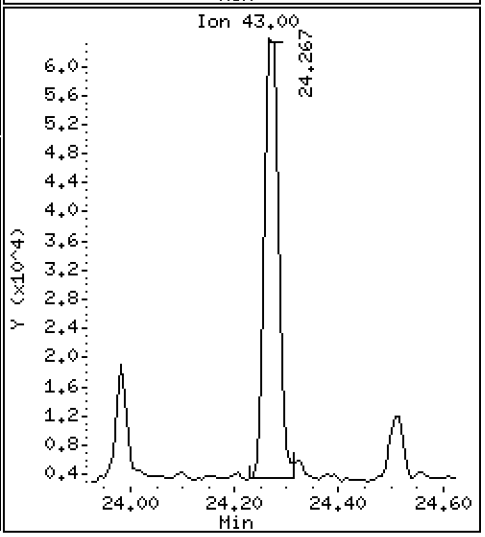


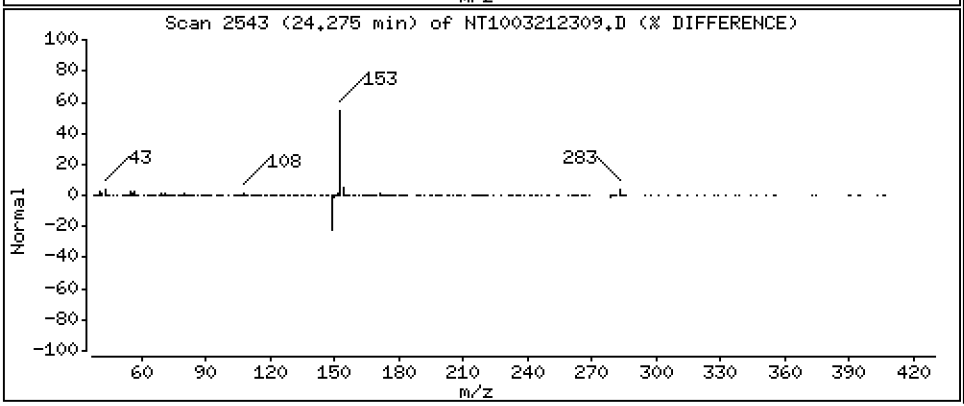












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Date : 21-MAR-2023 22:18

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-SRM1

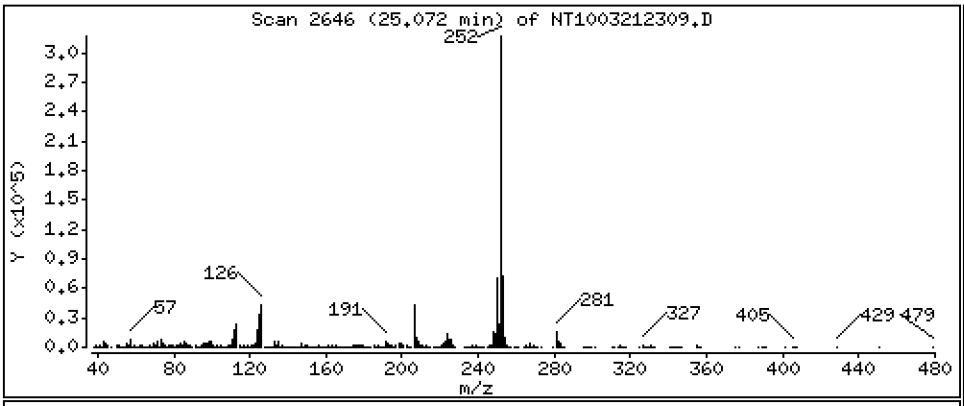
Operator: VTS

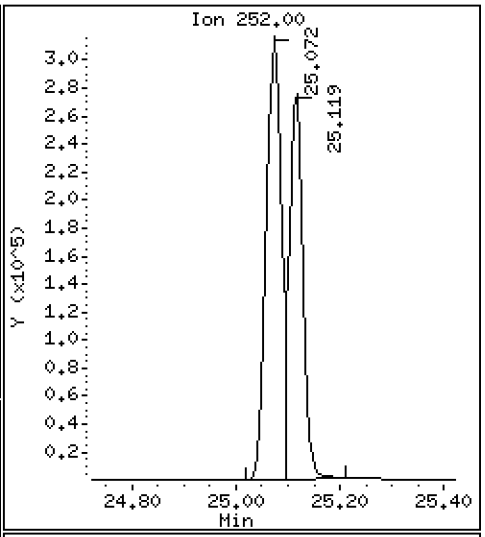
Column phase: ZB-5msi

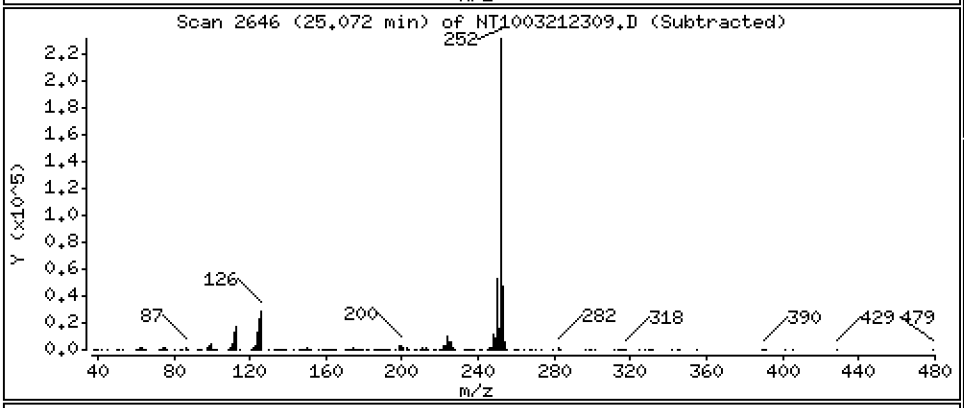
Column diameter: 0.25

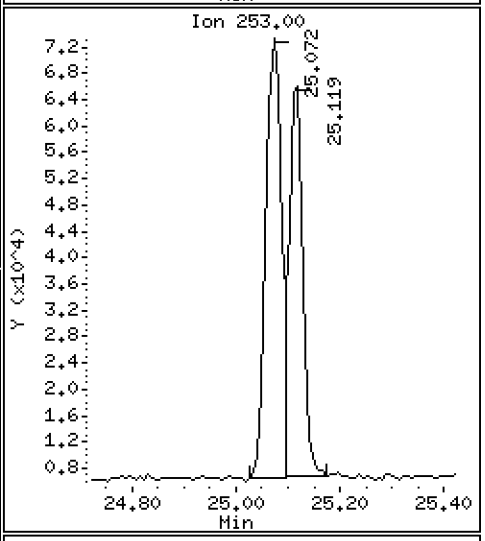
74 Benzo(b)fluoranthene

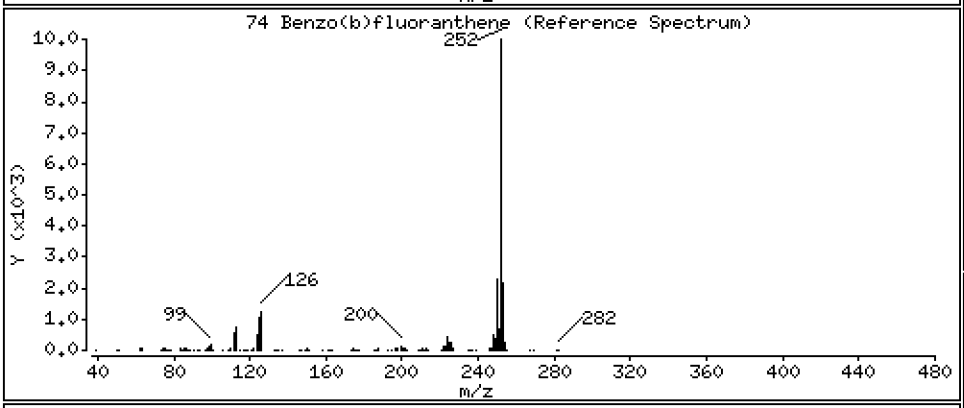
Concentration: 3.123 ug/mL

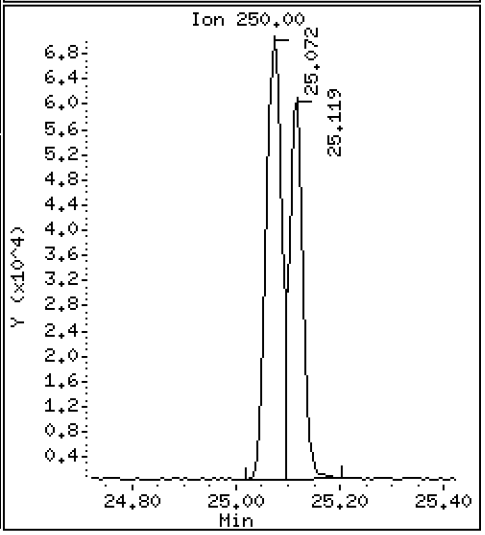


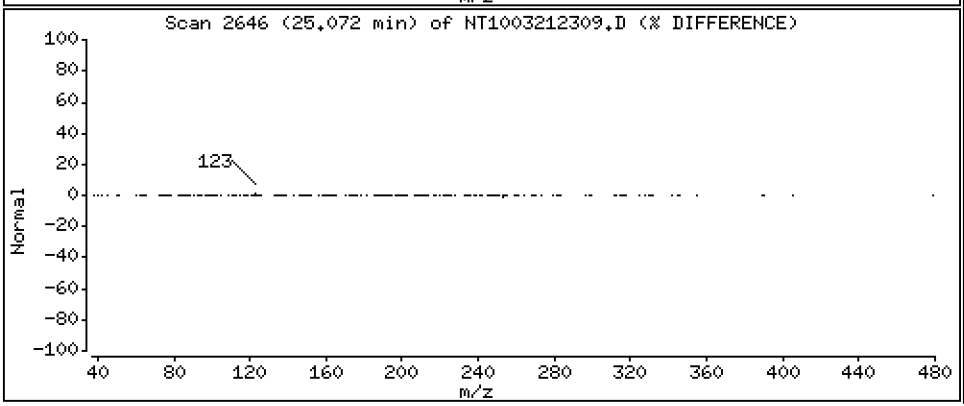












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Date : 21-MAR-2023 22:18

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-SRM1

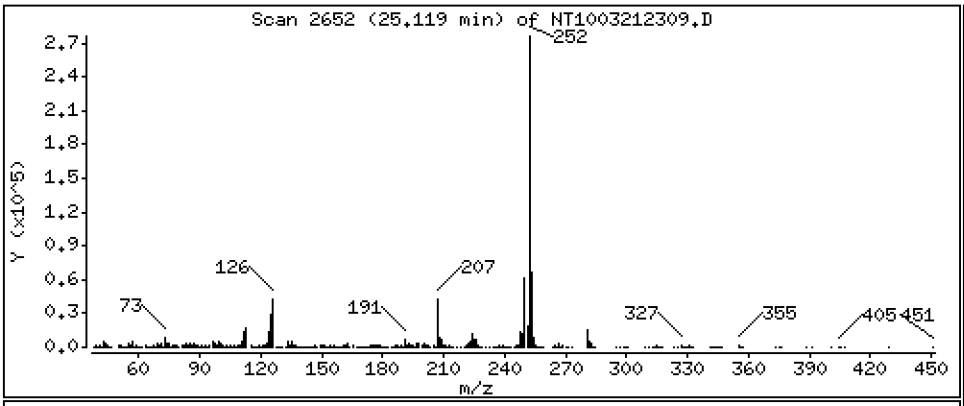
Operator: VTS

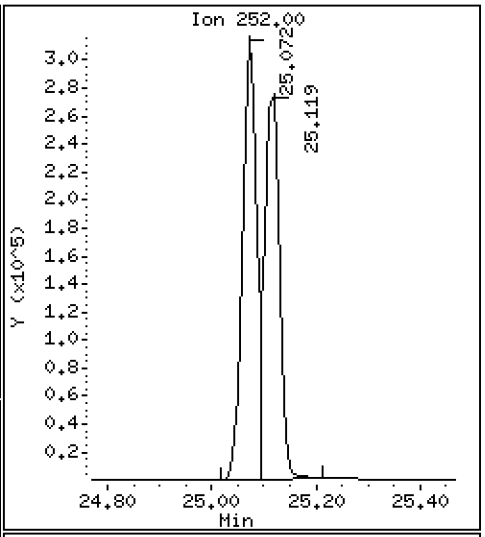
Column phase: ZB-5msi

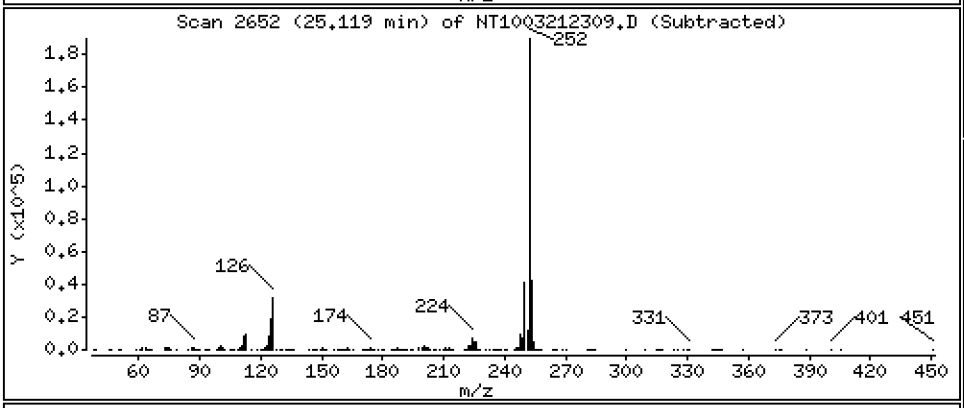
Column diameter: 0.25

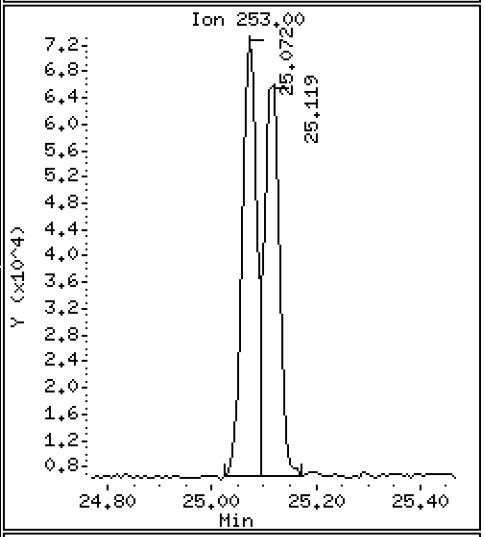
75 Benzo(k)fluoranthene

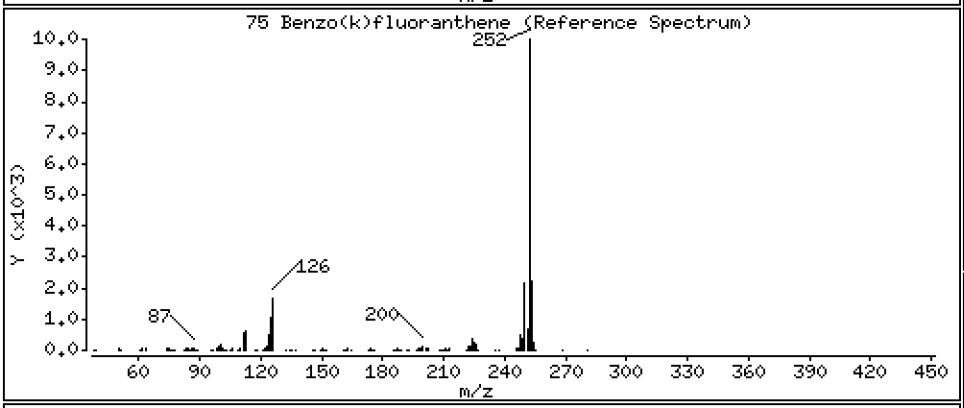
Concentration: 2.627 ug/mL

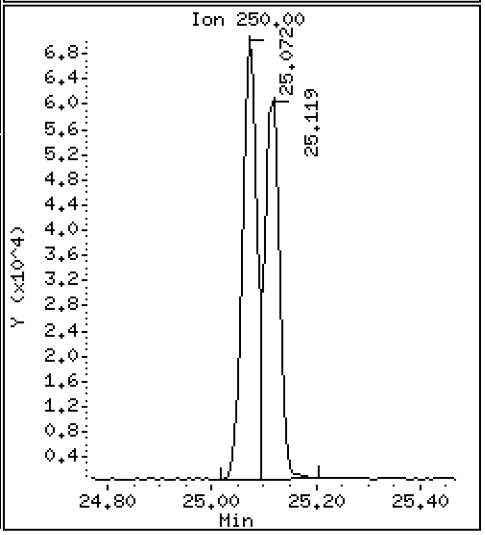


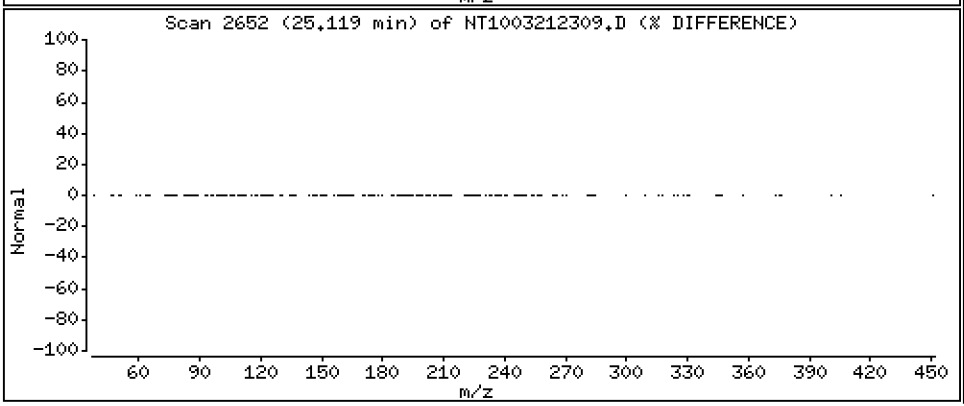












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Date : 21-MAR-2023 22:18

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-SRM1

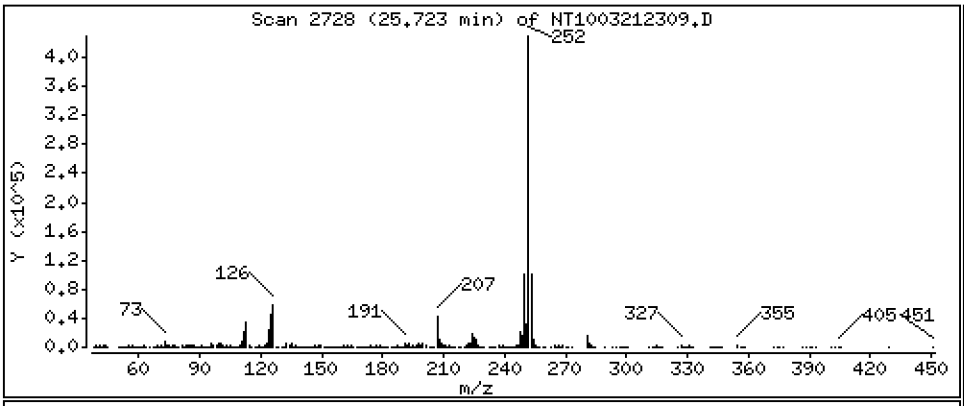
Operator: VTS

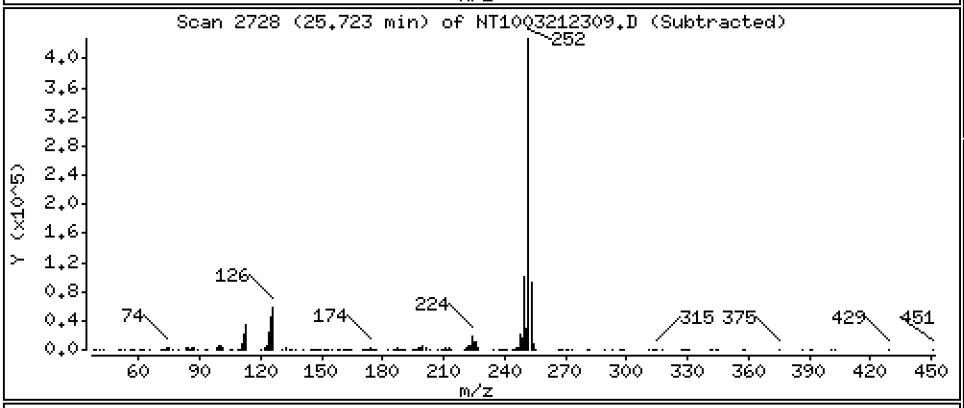
Column phase: ZB-5msi

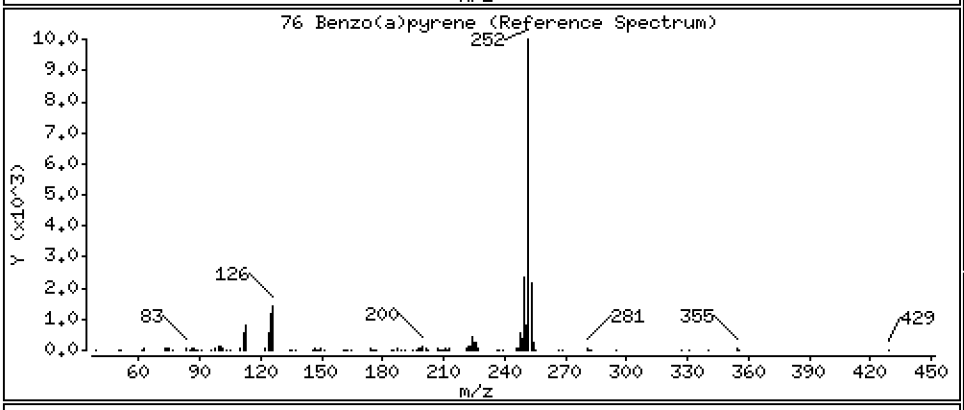
Column diameter: 0.25

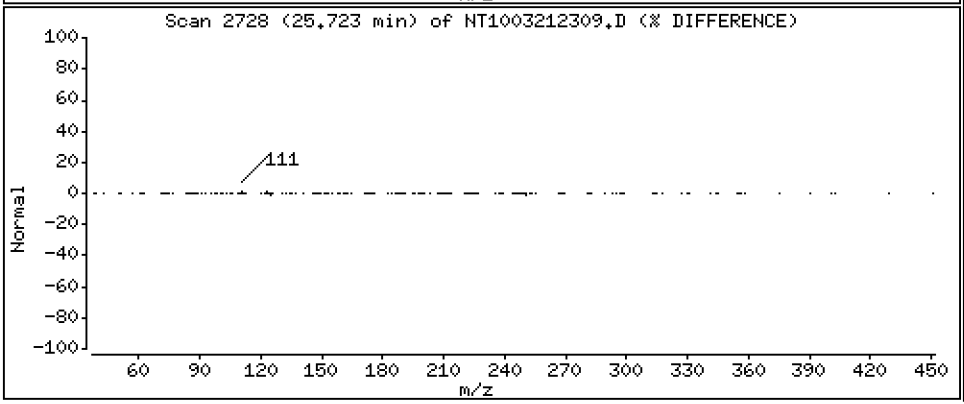
76 Benzo(a)pyrene

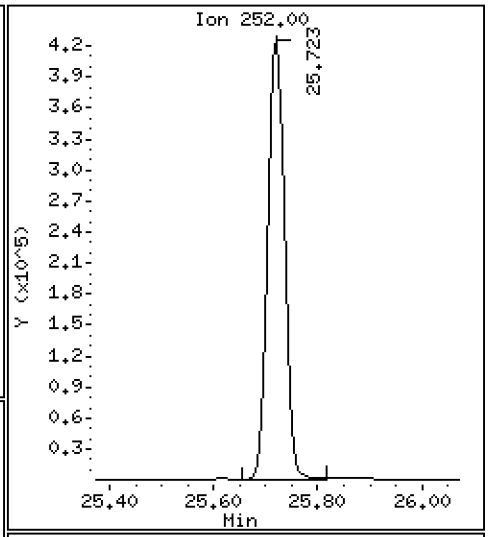
Concentration: 5.110 ug/mL

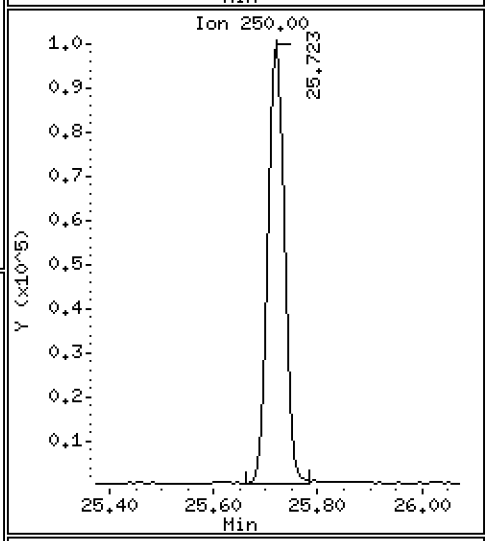


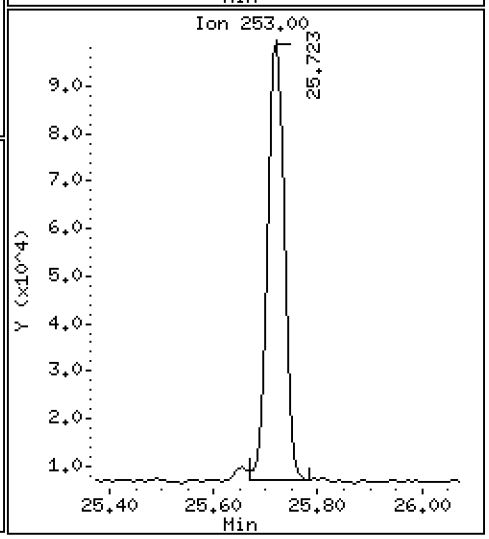












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Date : 21-MAR-2023 22:18

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-SRM1

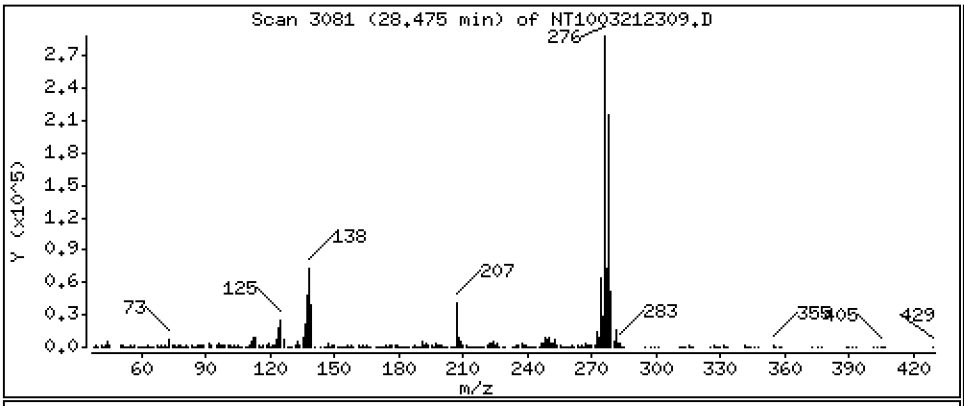
Operator: VTS

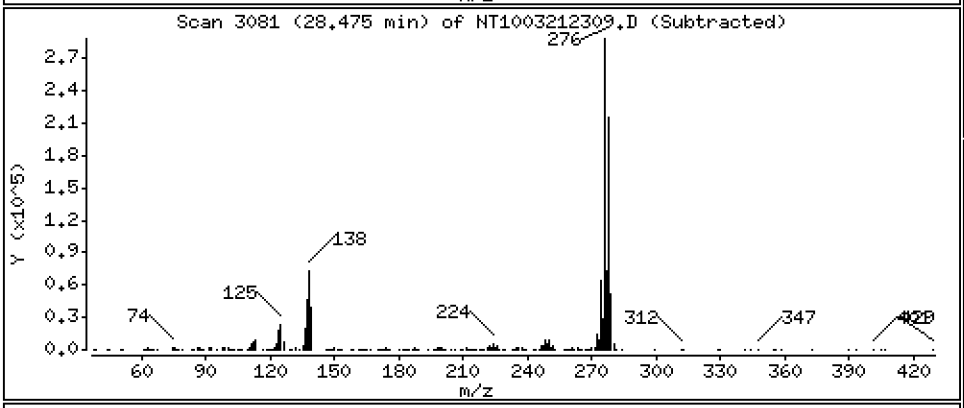
Column phase: ZB-5msi

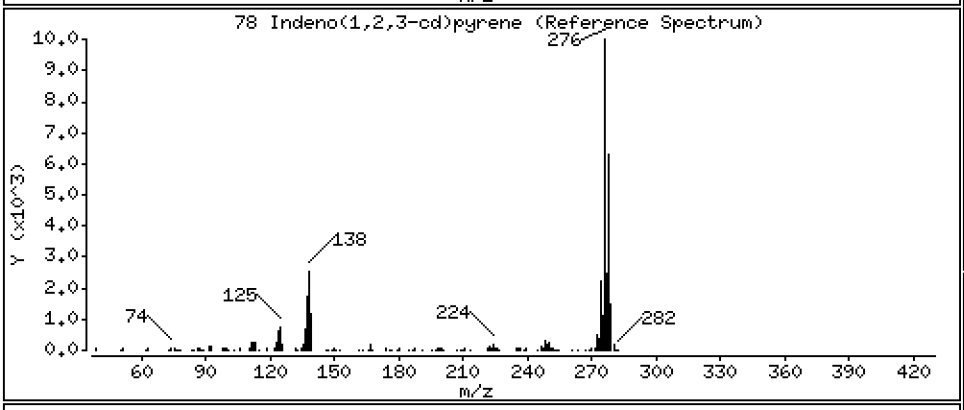
Column diameter: 0.25

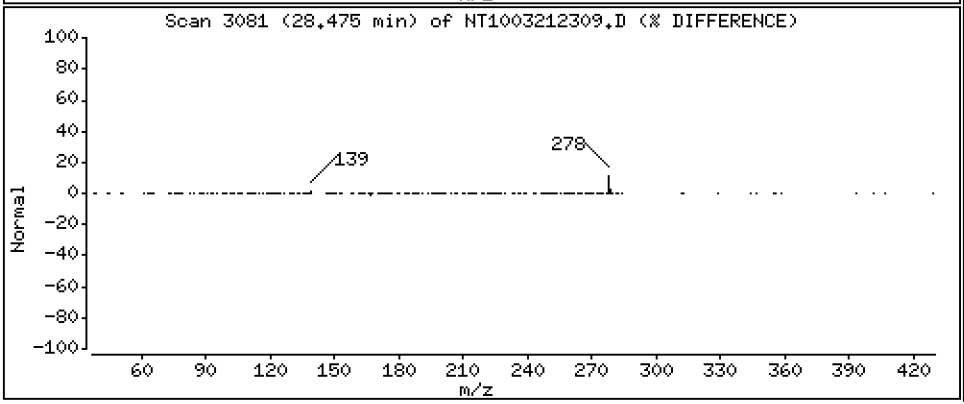
78 Indeno(1,2,3-cd)pyrene

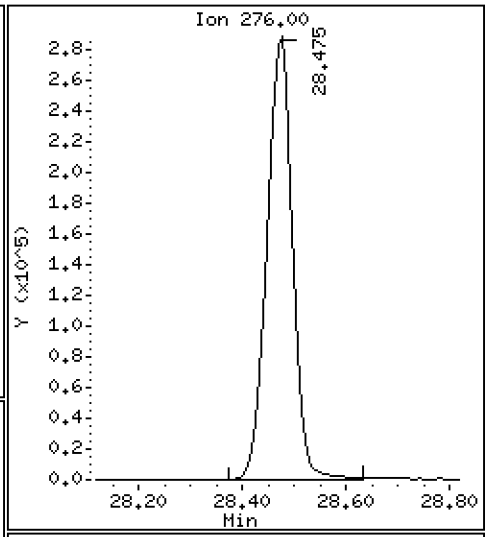
Concentration: 4.236 ug/mL

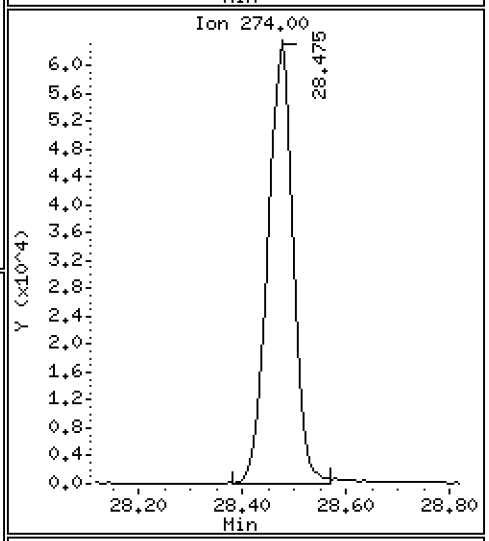


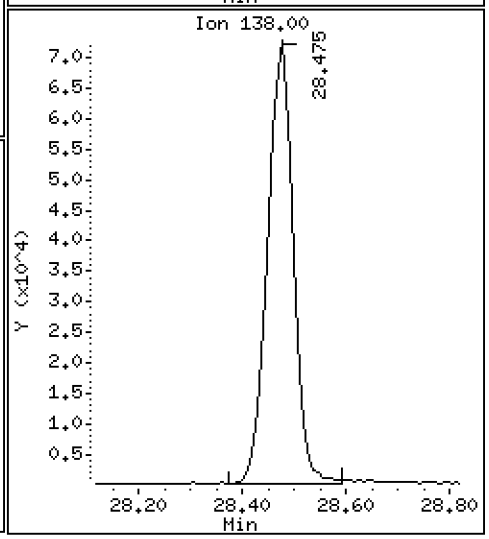












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Date : 21-MAR-2023 22:18

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-SRM1

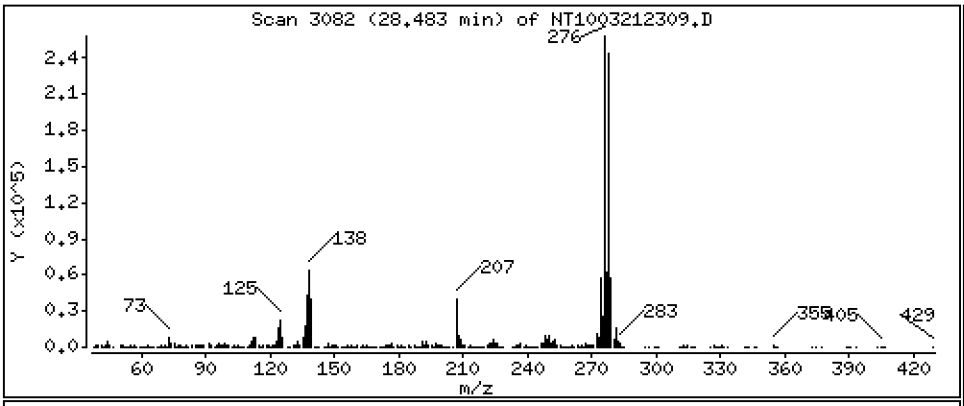
Operator: VTS

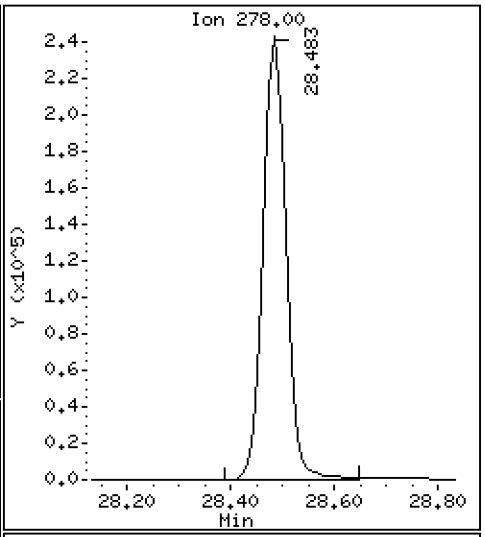
Column phase: ZB-5msi

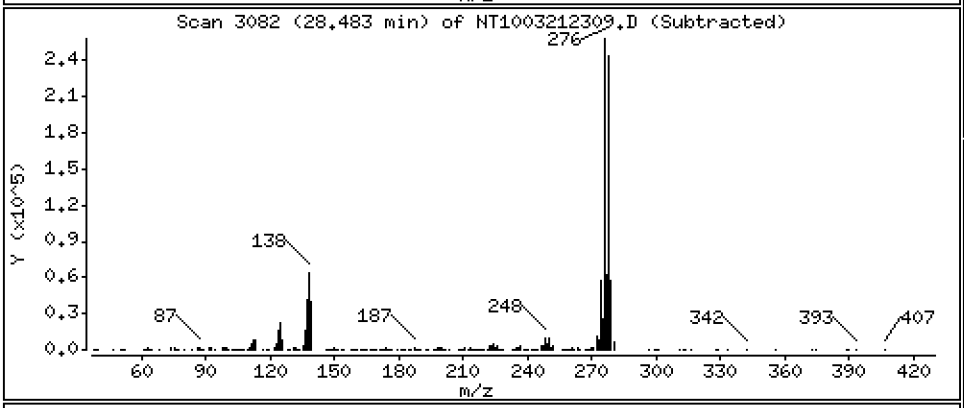
Column diameter: 0.25

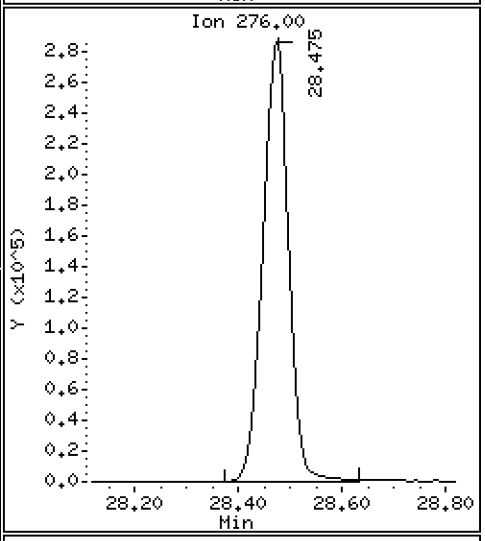
79 Dibenzo(a,h)anthracene

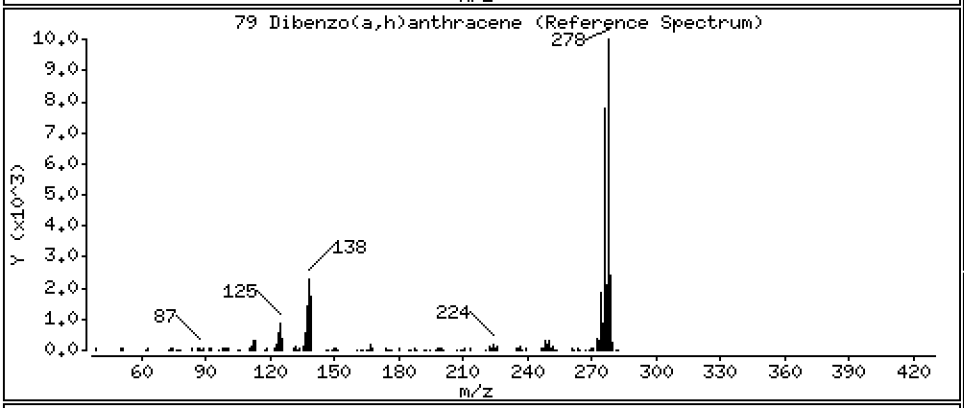
Concentration: 3.847 ug/mL

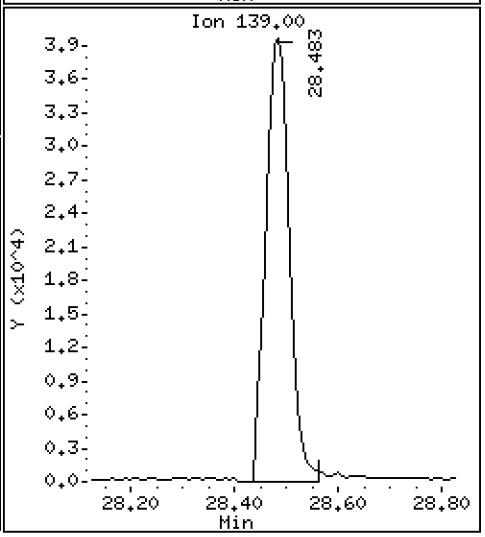


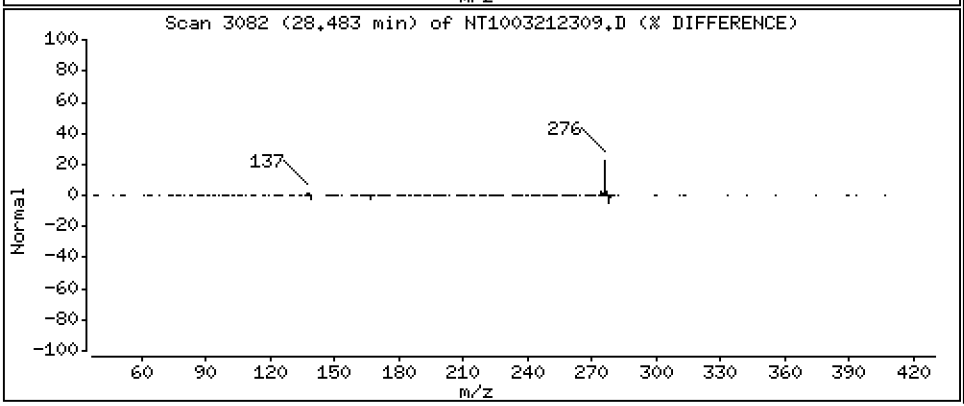












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Date : 21-MAR-2023 22:18

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-SRM1

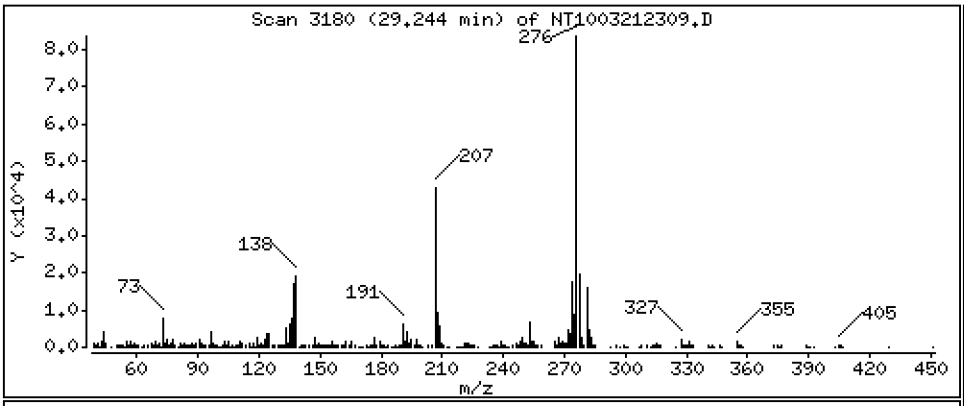
Operator: VTS

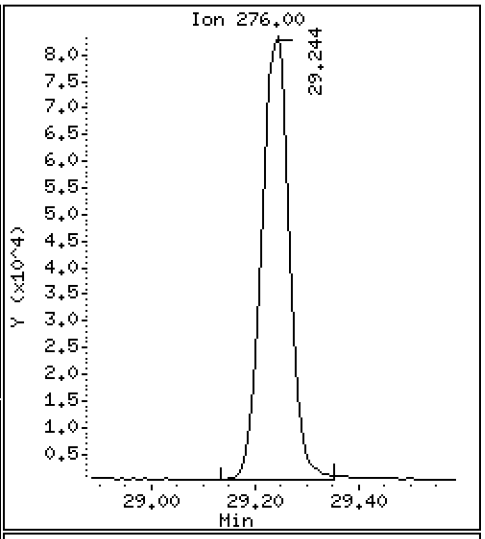
Column phase: ZB-5msi

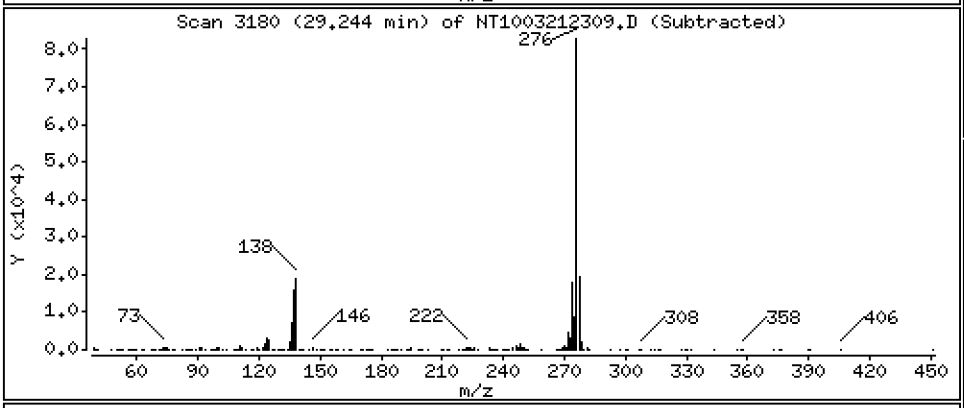
Column diameter: 0.25

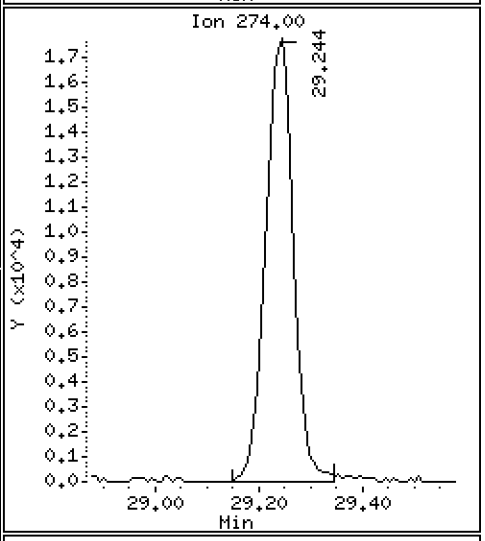
80 Benzo(g,h,i)perylene

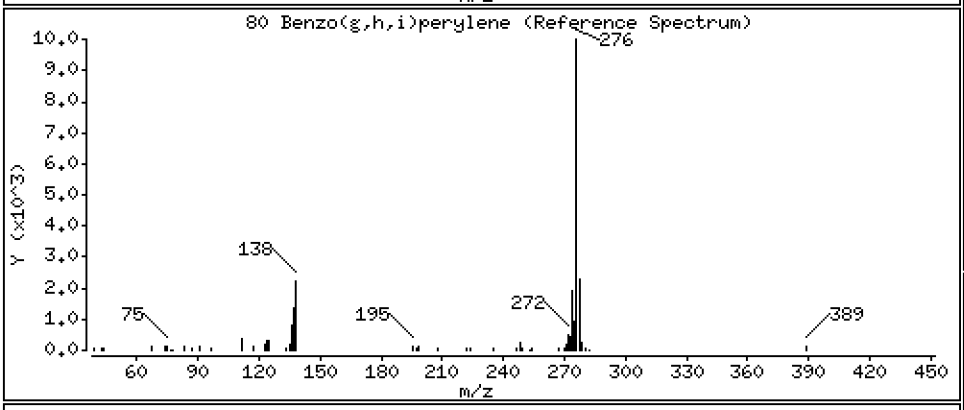
Concentration: 1.536 ug/mL

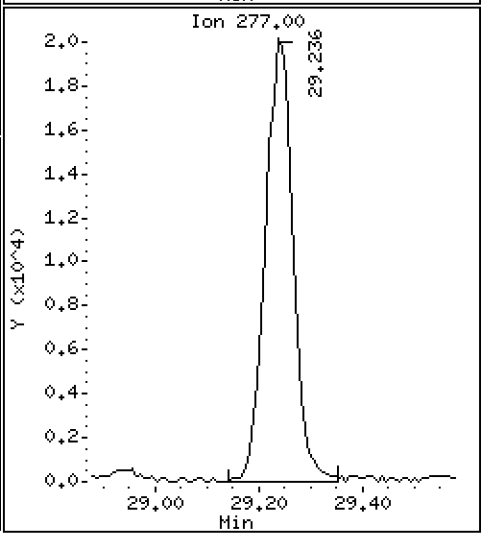


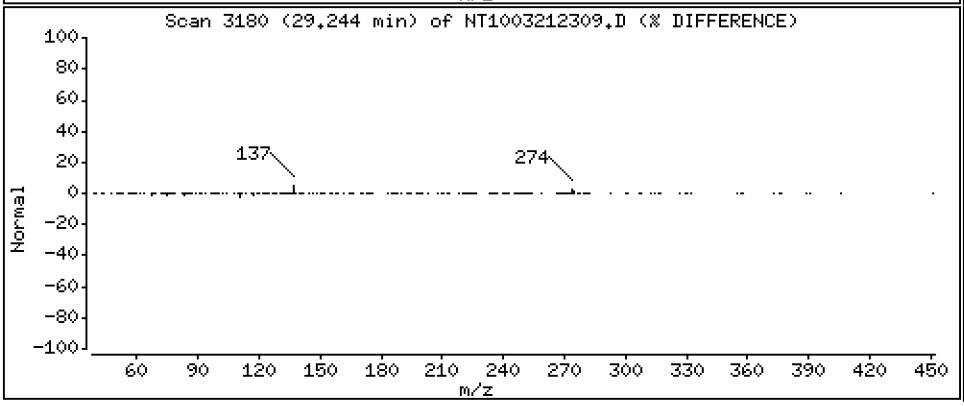












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Date : 21-MAR-2023 22:18

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-SRM1

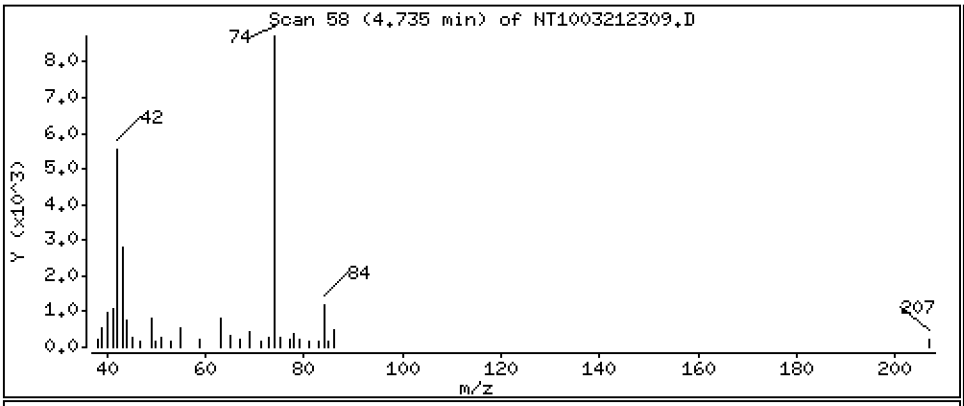
Operator: VTS

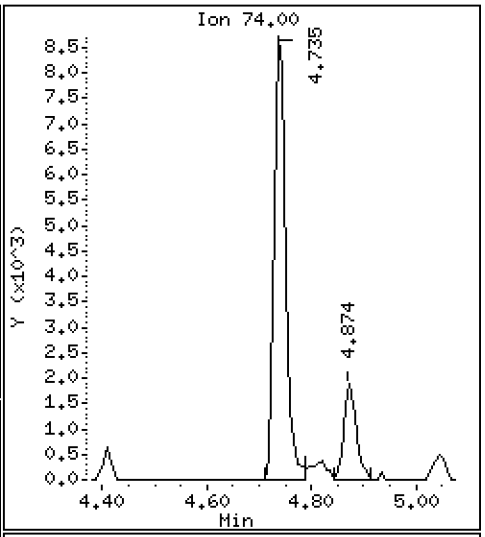
Column phase: ZB-5msi

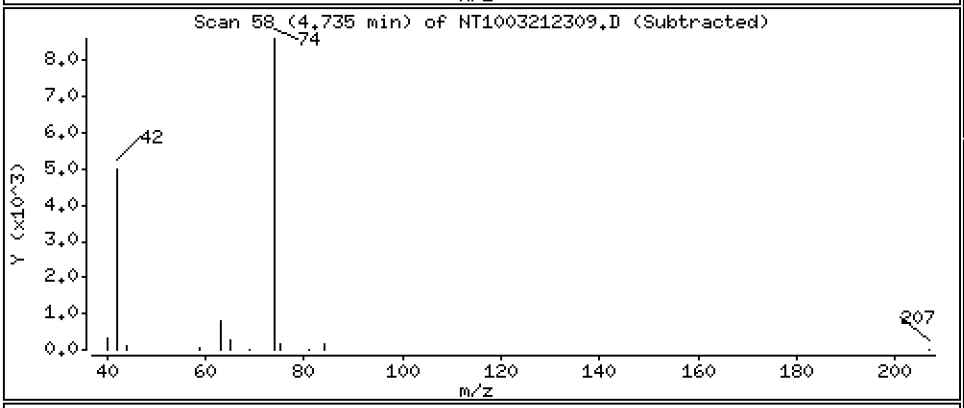
Column diameter: 0.25

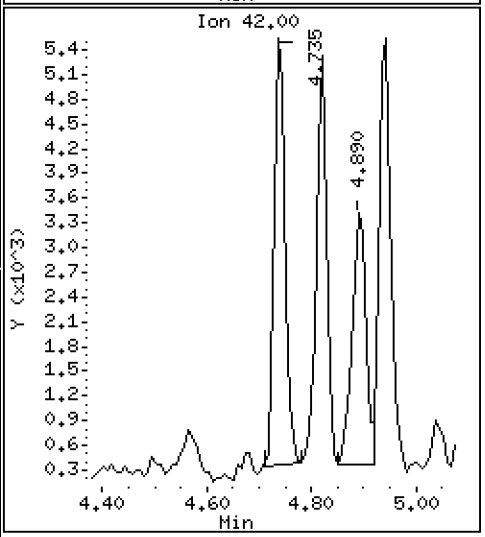
90 N-Nitrosodimethylamine

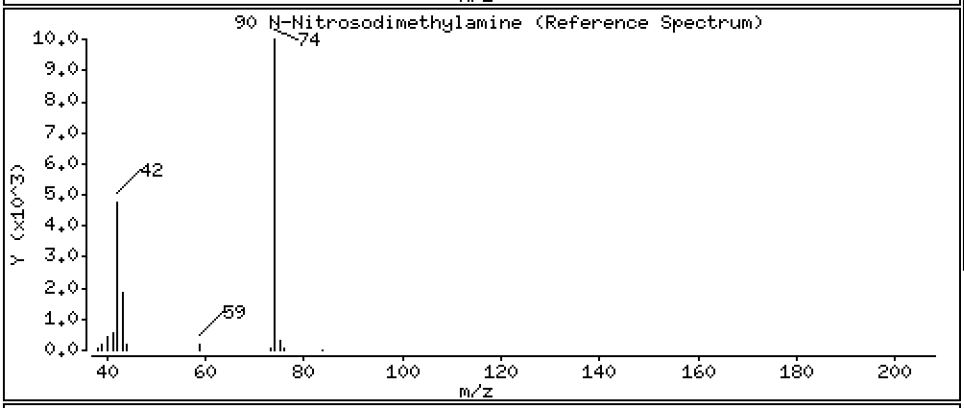
Concentration: 0.3622 ug/mL

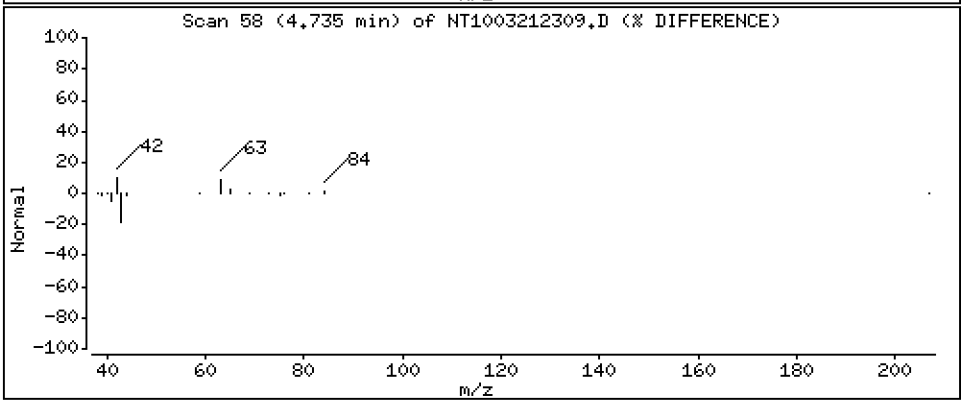












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Date : 21-MAR-2023 22:18

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-SRM1

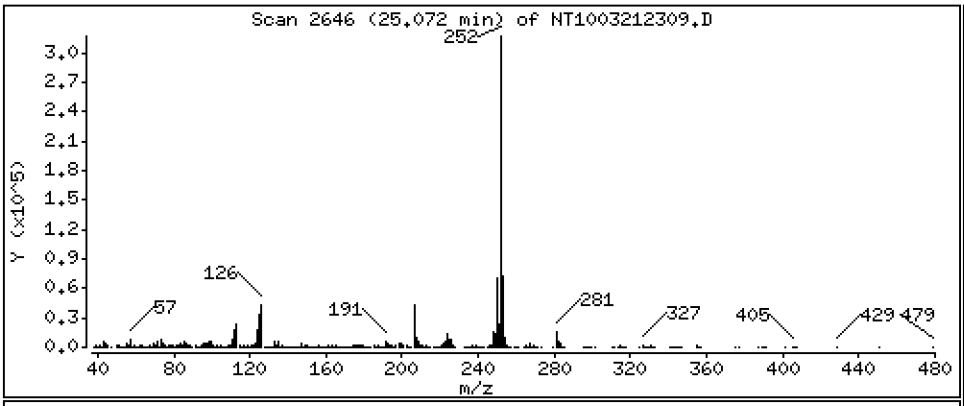
Operator: VTS

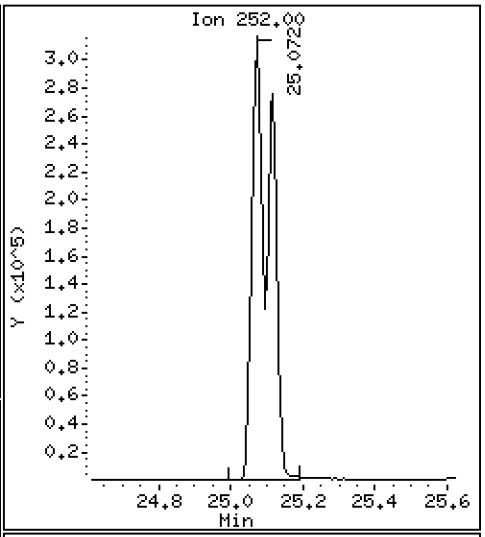
Column phase: ZB-5msi

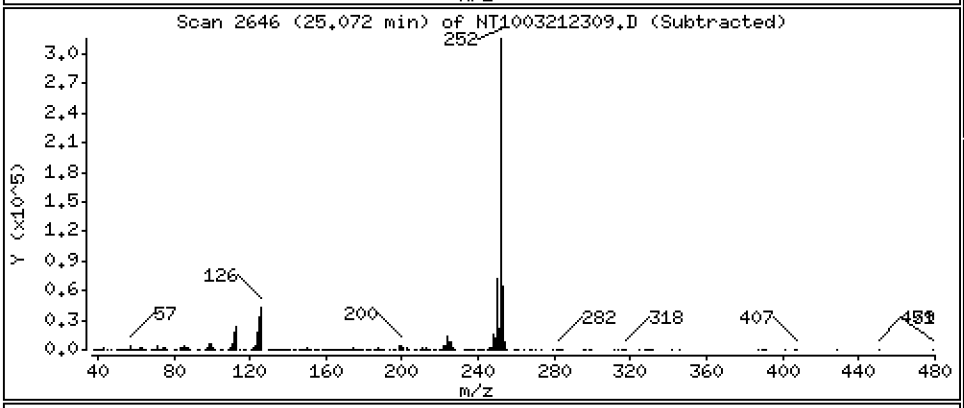
Column diameter: 0.25

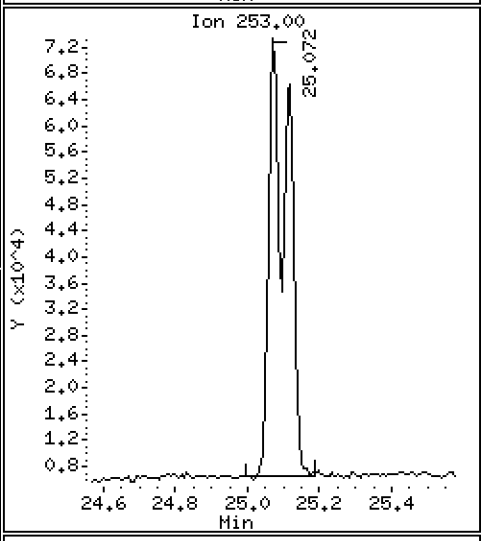
187 Total Benzofluoranthenes

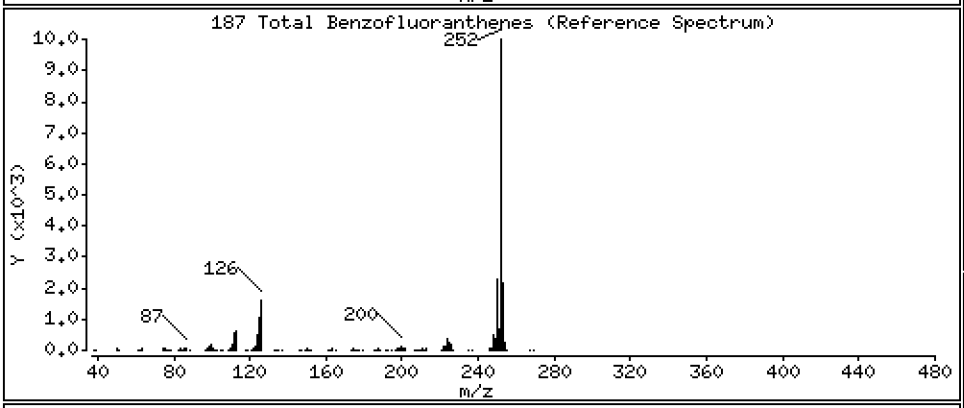
Concentration: 5.724 ug/mL

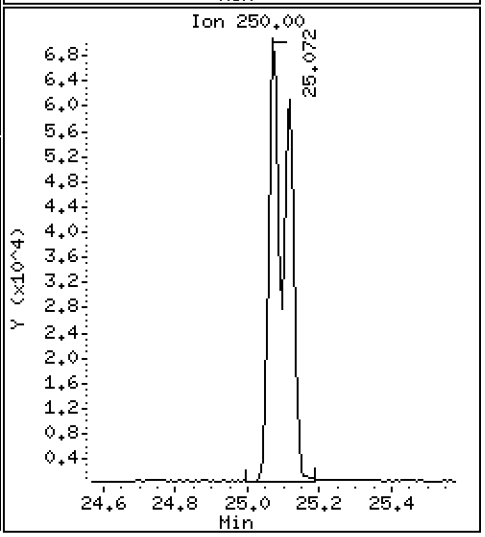


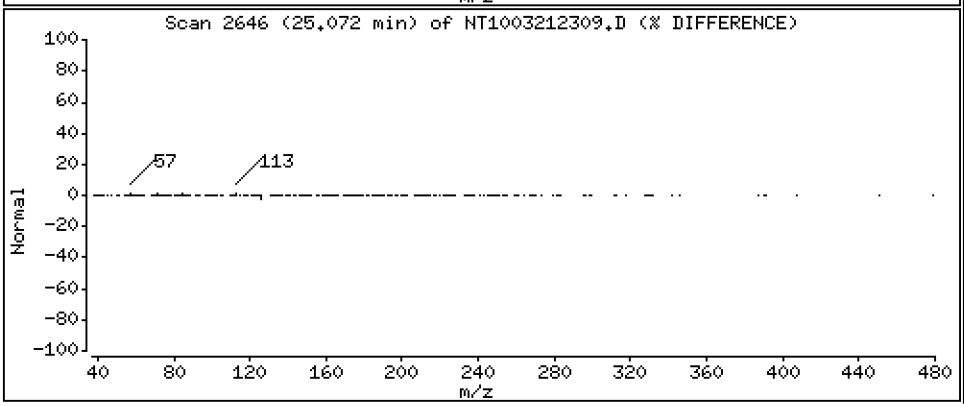












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Date : 21-MAR-2023 22:18

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-SRM1

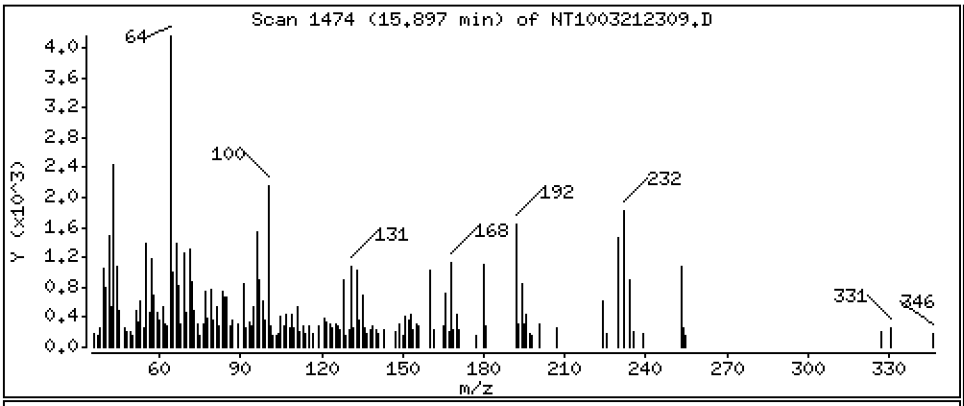
Operator: VTS

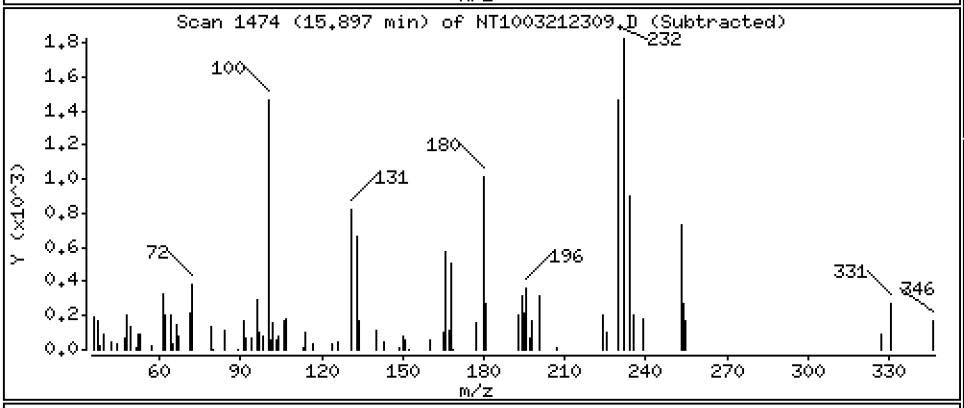
Column phase: ZB-5msi

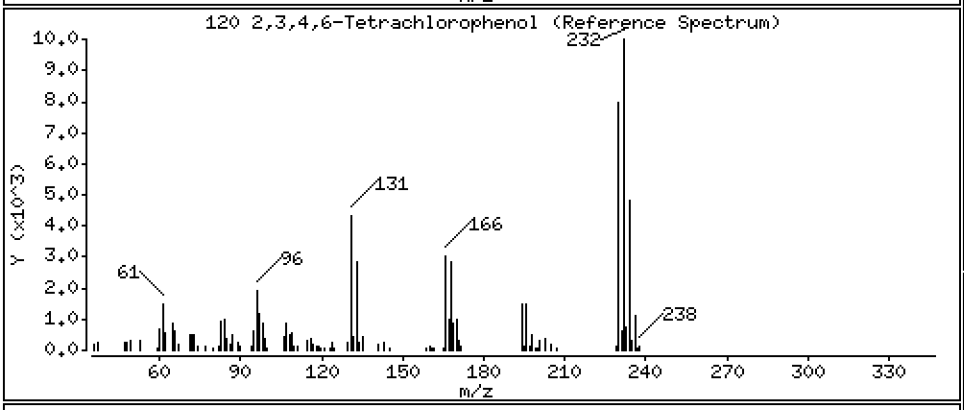
Column diameter: 0.25

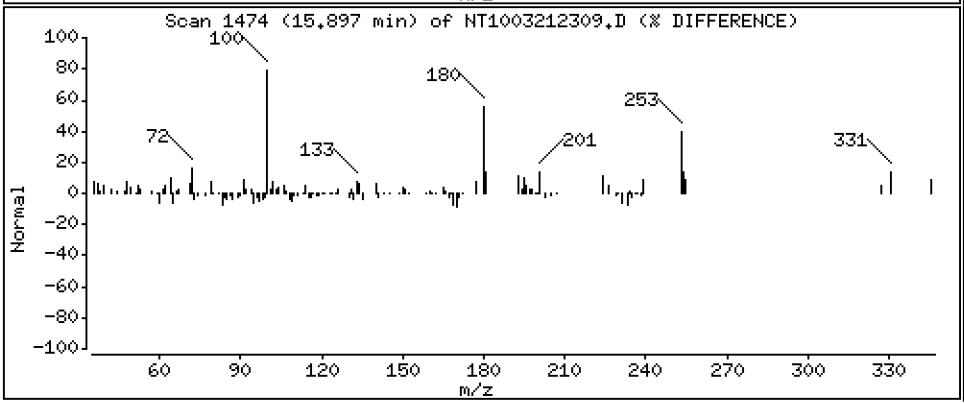
120 2,3,4,6-Tetrachlorophenol

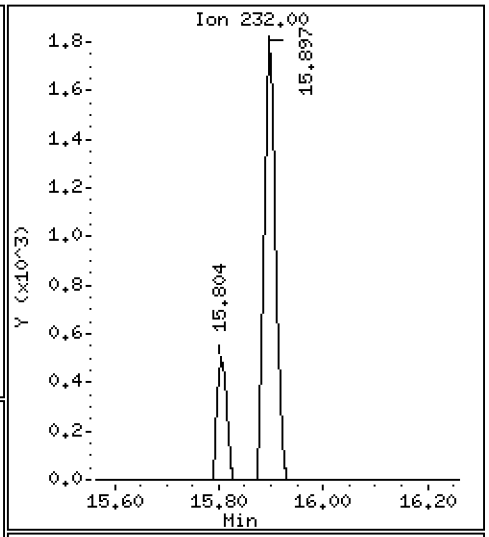
Concentration: 0.07427 ug/mL

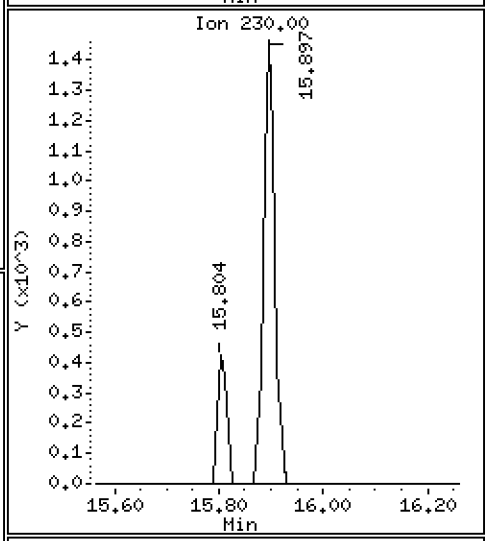


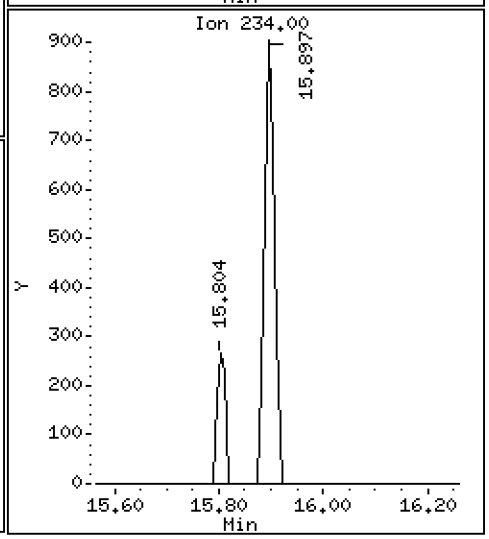












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230321.b\NT1003212309.D
Lab Smp Id: BLC0109-SRM1
Inj Date : 21-MAR-2023 22:18
Operator : VTS Inst ID: nt10.i
Smp Info : BLC0109-SRM1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230321.b\ABN.m
Meth Date : 29-Mar-2023 06:54 van Quant Type: ISTD
Cal Date : 16-MAR-2023 00:22 Cal File: NT10031508.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)	
$	1 2-Fluorophenol	112	6.890	6.889	(0.728)	292070	5.28932	5.289	
$	2 Phenol-d5	99	8.466	8.473	(0.894)	410806	5.67107	5.671	
	3 Phenol	94	8.489	8.497	(0.897)	150535	1.99979	2.000	
$	5 2-Chlorophenol-d4	132	8.744	8.744	(0.924)	365692	5.91183	5.912	
	4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.						
	6 2-Chlorophenol	128	8.767	8.775	(0.926)	41064	0.63739	0.6374	
	7 1,3-Dichlorobenzene	146	9.038	9.045	(0.955)	14096	0.20696	0.2070	
*	8 1,4-Dichlorobenzene-d4	152	9.100	9.108	(1.000)	182595	4.00000		(H)
	9 1,4-Dichlorobenzene	146	Compound Not Detected.						
$	10 1,2-Dichlorobenzene-d4	152	9.465	9.465	(1.000)	163245	3.67476	3.675	
	12 1,2-Dichlorobenzene	146	Compound Not Detected.						
	11 Benzyl alcohol	108	Compound Not Detected.						
	14 2,2'-oxybis(1-Chloropropane)	121	9.675	9.682	(1.022)	7846	0.41260	0.4126	
	13 2-Methylphenol	108	9.597	9.604	(1.014)	215167	3.92115	3.921	
	17 Hexachloroethane	117	Compound Not Detected.						
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.						
	15 4-Methylphenol	108	9.869	9.876	(1.043)	325158	5.62385	5.624	
$	18 Nitrobenzene-d5	82	10.195	10.202	(0.880)	248733	3.75152	3.752	
	19 Nitrobenzene	77	10.226	10.241	(0.883)	40056	0.61561	0.6156	
	20 Isophorone	82	10.676	10.683	(0.922)	92853	1.11552	1.116	
	21 2-Nitrophenol	139	10.850	10.858	(0.937)	87527	2.75858	2.759	
	22 2,4-Dimethylphenol	107	10.901	10.918	(0.941)	176081	2.94627	2.946	
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.						
	24 Benzoic acid	105	11.011	11.113	(0.951)	37048	1.11393	1.114	
	25 2,4-Dichlorophenol	162	11.308	11.316	(0.977)	378674	7.91783	7.918	
	26 1,2,4-Trichlorobenzene	180	11.487	11.502	(0.992)	25568	0.45544	0.4554	
*	27 Naphthalene-d8	136	11.580	11.587	(1.000)	656870	4.00000		
	28 Naphthalene	128	11.619	11.626	(1.003)	200256	1.15080	1.151	
	29 4-Chloroaniline	127	Compound Not Detected.						
	30 Hexachlorobutadiene	225	11.974	11.989	(1.034)	32389	0.98463	0.9846	
	31 4-Chloro-3-methylphenol	107	12.709	12.716	(1.097)	113110	2.18471	2.185	
	32 2-Methylnaphthalene	142	Compound Not Detected.						
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.						

		QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
	Compounds							
	34 2,4,6-Trichlorophenol	196	13.622	13.637	(0.898)	86091	2.34810	2.348
	35 2,4,5-Trichlorophenol	196	13.700	13.707	(0.903)	146430	3.59436	3.594
$	36 2-Fluorobiphenyl	172	13.785	13.800	(0.909)	590695	4.02544	4.025
	37 2-Chloronaphthalene	162	13.994	14.009	(0.922)	160223	1.34849	1.348
	38 2-Nitroaniline	65	Compound Not Detected.					
	39 Dimethylphthalate	163	14.683	14.698	(0.968)	584537	4.85060	4.851
	40 Acenaphthylene	152	14.861	14.876	(0.980)	239126	1.29156	1.292
	41 2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42 Acenaphthene-d10	164	15.170	15.185	(1.000)	370957	4.00000	
	43 3-Nitroaniline	138	Compound Not Detected.					
	44 Acenaphthene	153	15.240	15.247	(1.005)	459688	4.01897	4.019
	45 2,4-Dinitrophenol	184	15.309	15.324	(1.009)	90194	5.67828	5.678
	46 Dibenzofuran	168	15.564	15.572	(1.026)	880825	5.22218	5.222
	47 4-Nitrophenol	109	15.425	15.432	(1.017)	128808	7.00012	7.000
	48 2,4-Dinitrotoluene	165	15.618	15.641	(1.030)	151189	3.86289	3.863
	50 Diethylphthalate	149	16.129	16.144	(1.063)	18135	0.15338	0.1534
	49 Fluorene	166	16.275	16.283	(1.073)	442697	3.33613	3.336
	51 4-Chlorophenyl-phenylether	204	16.260	16.275	(1.072)	129271	2.04861	2.049
	52 4-Nitroaniline	138	Compound Not Detected.					
	53 4,6-Dinitro-2-methylphenol	198	16.453	16.468	(0.904)	176546	8.50737	8.507
	54 N-Nitrosodiphenylamine	169	16.507	16.522	(0.907)	305367	3.35601	3.356
$	55 2,4,6-Tribromophenol	330	16.800	16.815	(1.107)	136221	7.88626	7.886
	56 4-Bromophenyl-phenylether	248	17.262	17.270	(0.949)	279944	7.35430	7.354
	57 Hexachlorobenzene	284	Compound Not Detected.					
	58 Pentachlorophenol	266	17.928	17.943	(0.986)	109153	4.58403	4.584
*	59 Phenanthrene-d10	188	18.191	18.206	(1.000)	680578	4.00000	
	60 Phenanthrene	178	18.237	18.252	(1.003)	893150	4.81278	4.813
	61 Anthracene	178	18.330	18.338	(1.008)	413349	2.32195	2.322
	62 Carbazole	167	18.663	18.670	(1.026)	1009229	6.32664	6.327
	63 Di-n-butylphthalate	149	19.468	19.475	(1.070)	411528	1.92243	1.922
	64 Fluoranthene	202	20.613	20.620	(0.887)	540794	2.41546	2.415
	65 Pyrene	202	21.038	21.046	(0.906)	696844	3.03411	3.034
$	66 Terphenyl-d14	244	21.332	21.332	(0.918)	764618	4.43315	4.433
	67 Butylbenzylphthalate	149	22.254	22.261	(0.958)	360864	4.35499	4.355
	68 Benzo(a)anthracene	228	23.198	23.198	(0.999)	1177116	5.98521	5.985
*	69 Chrysene-d12	240	23.229	23.229	(1.000)	557190	4.00000	
	70 3,3'-Dichlorobenzidine	252	Compound Not Detected.					
	71 Chrysene	228	23.268	23.275	(1.002)	277830	1.44595	1.446
	72 bis(2-Ethylhexyl)phthalate	149	23.283	23.283	(0.959)	396611	2.81244	2.812
*	134 Di-n-octylphthalate-d4	153	24.267	24.266	(1.000)	962534	4.00000	
	73 Di-n-octylphthalate	149	24.274	24.282	(1.000)	630312	2.50234	2.502
	74 Benzo(b)fluoranthene	252	25.072	25.071	(0.970)	632934	3.12299	3.123
	75 Benzo(k)fluoranthene	252	25.118	25.118	(0.972)	540677	2.62727	2.627
	76 Benzo(a)pyrene	252	25.722	25.722	(0.996)	925925	5.11002	5.110
*	77 Perylene-d12	264	25.838	25.830	(1.000)	625232	4.00000	
	78 Indeno(1,2,3-cd)pyrene	276	28.474	28.466	(1.102)	976555	4.23618	4.236
	79 Dibenzo(a,h)anthracene	278	28.482	28.482	(1.102)	736293	3.84710	3.847
	80 Benzo(g,h,i)perylene	276	29.243	29.235	(1.132)	306415	1.53590	1.536
	90 N-Nitrosodimethylamine	74	4.735	4.727	(0.500)	12759	0.36218	0.3622
	91 Aniline	93	Compound Not Detected.					
	93 Benzidine	184	Compound Not Detected.					
	103 Pyridine	79	Compound Not Detected.					
	105 1-methylnaphthalene	142	Compound Not Detected.					
	111 Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.072	25.118	(0.970)	1120156	5.72436	5.724
120 2,3,4,6-Tetrachlorophenol	232	15.897	15.912	(1.048)	2772	0.07427	0.07427

QC Flag Legend

H - Operator selected an alternate compound hit.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1003212309.D
Lab Smp Id: BLC0109-SRM1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230321.b\ABN.m
Misc Info:

Calibration Date: 21-MAR-2023
Calibration Time: 17:46
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	138414	69207	276828	182595	31.92
27 Naphthalene-d8	511348	255674	1022696	656870	28.46
42 Acenaphthene-d10	293241	146621	586482	370957	26.50
59 Phenanthrene-d10	535484	267742	1070968	680578	27.10
69 Chrysene-d12	464733	232367	929466	557190	19.89
134 Di-n-octylphthala	716354	358177	1432708	962534	34.37
77 Perylene-d12	509704	254852	1019408	625232	22.67

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.11	8.61	9.61	9.10	-0.08
27 Naphthalene-d8	11.59	11.09	12.09	11.58	-0.06
42 Acenaphthene-d10	15.19	14.69	15.69	15.17	-0.10
59 Phenanthrene-d10	18.21	17.71	18.71	18.19	-0.08
69 Chrysene-d12	23.23	22.73	23.73	23.23	0.00
134 Di-n-octylphthala	24.27	23.77	24.77	24.27	0.00
77 Perylene-d12	25.83	25.33	26.33	25.84	0.03

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

REVIEW SUMMARY FOR FILE - NT1003212309.D

Lab ID: BLC0109-SRM1
nt10.i, 20230321.b\ABN.m,   21-MAR-2023 22:18

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.951	0.959	-0.0081	Benzoic acid

RRT check based on Ccal File: NT1003212302.D

On Column LOD for nt10.i, 20230321.b\ABN.m, ICAL.sub = 0.0000

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

Analytical Resources, LLC
Analytical Chemists and Consultants

MASS SPECTROMETER
INSTRUMENT PERFORMANCE CHECK
EPA 8270E

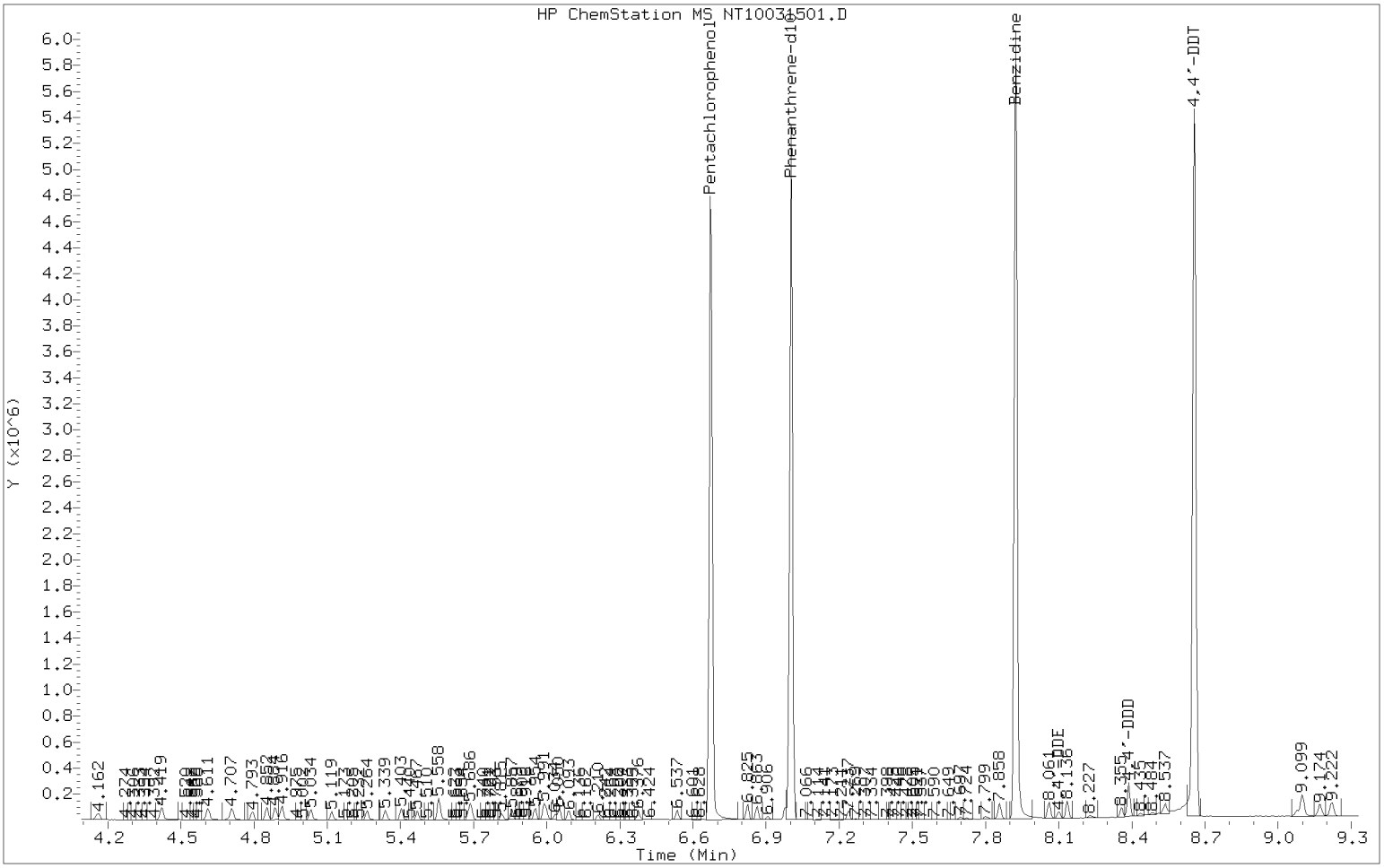
Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Lab File ID:	NT10031501.D	Injection Date:	03/15/23
Instrument ID:	NT10	Injection Time:	20:19
Sequence:	SLC0228	Lab Sample ID:	SLC0228-TUN1

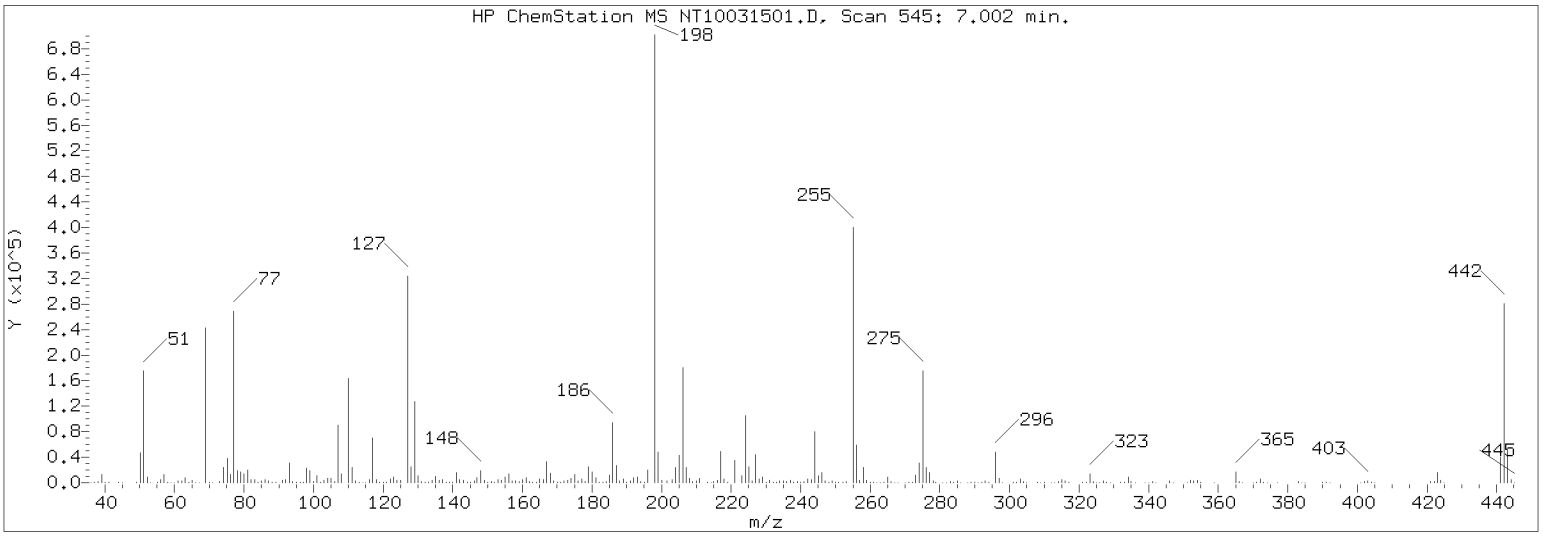
m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
68	Less than 2% of 69	0.372	PASS
69	Less than 100% of 198	36.5	PASS
70	Less than 2% of 69	0.498	PASS
197	Less than 2% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.88	PASS
365	1 - 100% of 198	2.52	PASS
441	Less than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

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

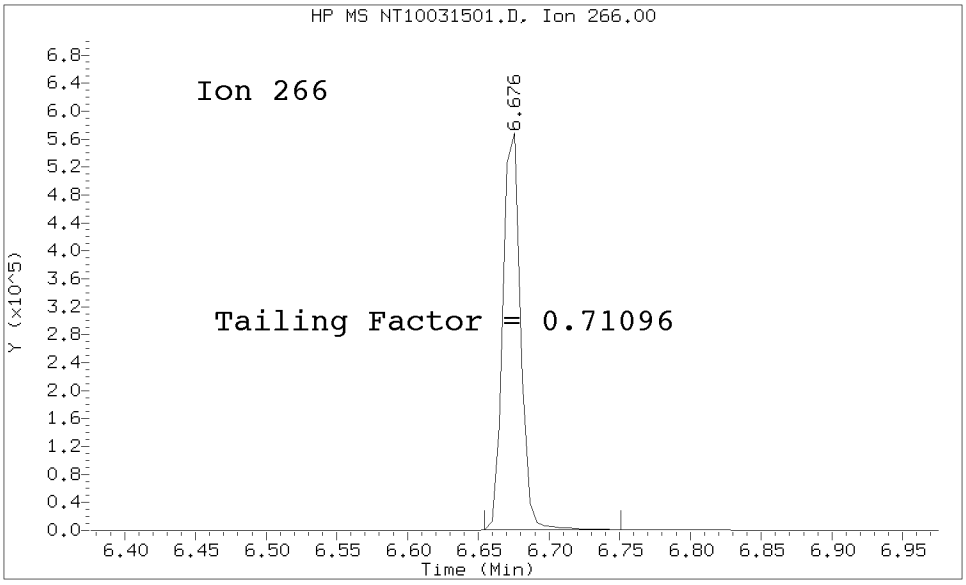
DFTPP TAILING FACTOR AND BREAKDOWN GRAPHIC REPORT

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



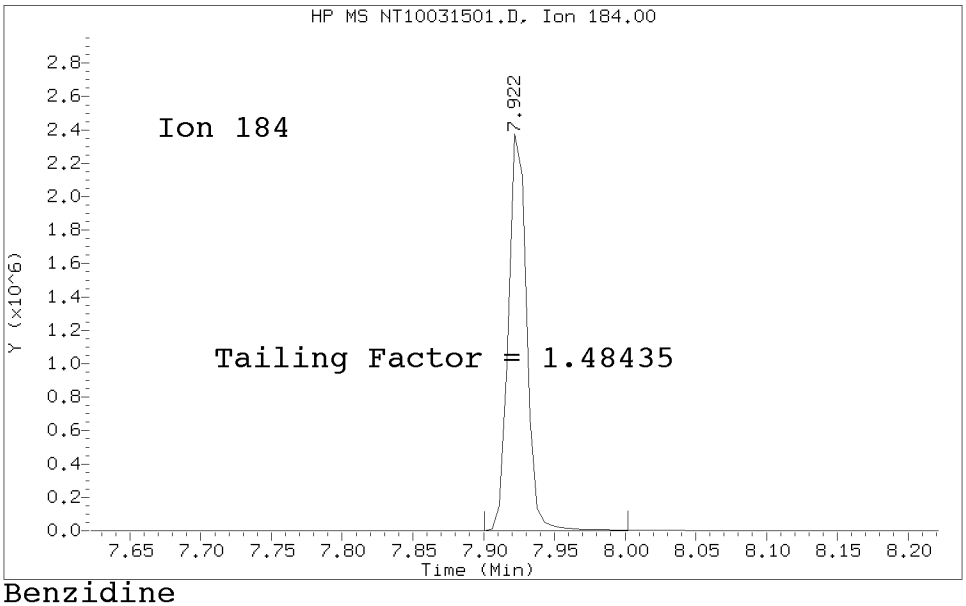


Datafile Analyzed: /20230315.b/NT10031501.D/NT10031501.D
Method Used: \20230315.b\DFTPP8270E.m\sw846ddt.m Inst: nt10
Injection Date: 15-MAR-2023 20:19 Operator: JGR
Sample Info: SEQ-TUN1
Report Date: 03/16/2023 12:23



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

Tail Factor = 0.711 Maximum Allowed = 2.0



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

Tail Factor = 1.484 Maximum Allowed = 2.0

8270 TAILING FACTOR/BREAKDOWN SUMMARY RESULTS

TAILING ANALYSIS SUMMARY

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

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

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

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

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

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

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

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

INITIAL CALIBRATION DATA

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GC00046	Instrument:	NT10
Calibration Date:	03/15/2023	Column (1):	ZB-5MSi

Calibration Comments: 625.1/8270E ICAL

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
Phenol	0.2	1.622083	0.5	1.744385	1	1.738913	2.5	1.741727	5	1.626447	10	1.548455
4-Methylphenol	0.2	1.143833	0.5	1.244	1	1.307883	2.5	1.374404	5	1.286966	10	1.25011
Naphthalene	0.2	1.114243	0.5	1.09175	1	1.076291	2.5	1.085156	5	1.039419	10	1.030535
2-Methylnaphthalene	0.2	0.7568101	0.5	0.7669962	1	0.7731469	2.5	0.7905566	5	0.7700416	10	0.7603408
Acenaphthylene	0.2	1.914149	0.5	2.075865	1	2.064925	2.5	2.101795	5	1.969132	10	1.984368
Dimethylphthalate	0.2	1.323382	0.5	1.369259	1	1.345764	2.5	1.337994	5	1.267312	10	1.259852
Acenaphthene	0.2	1.282509	0.5	1.261686	1	1.254791	2.5	1.256369	5	1.196404	10	1.205595
Dibenzofuran	0.2	1.836794	0.5	1.892326	1	1.842035	2.5	1.892208	5	1.79473	10	1.763428
Fluorene	0.2	1.406055	0.5	1.451029	1	1.476714	2.5	1.500425	5	1.400817	10	1.414686
Phenanthrene	0.2	1.132198	0.5	1.106313	1	1.120881	2.5	1.127028	5	1.051992	10	1.053617
Anthracene	0.2	0.9557141	0.5	1.01224	1	1.065265	2.5	1.115342	5	1.052956	10	1.080994
Fluoranthene	0.2	1.36328	0.5	1.520561	1	1.561968	2.5	1.693508	5	1.749137	10	1.631866
Pyrene	0.2	1.456041	0.5	1.609441	1	1.630818	2.5	1.727629	5	1.739198	10	1.667931
Butylbenzylphthalate	0.2	0.3340669	0.5	0.4333599	1	0.4863695	2.5	0.5550659	5	0.5940761	10	0.626307
Benzo(a)anthracene	0.2	1.366436	0.5	1.427814	1	1.430217	2.5	1.485547	5	1.41212	10	1.389236
Chrysene	0.2	1.359447	0.5	1.429869	1	1.401334	2.5	1.407173	5	1.374198	10	1.361188
bis(2-Ethylhexyl)phthalate	0.2	0.3420314	0.5	0.4459806	1	0.5288449	2.5	0.5865203	5	0.5882303	10	0.5899108
Benzofluoranthenes, Total	0.4	1.195721	1	1.245168	2	1.253078	5	1.280546	10	1.251547	20	1.288474
Benzo(a)pyrene	0.2	0.9927352	0.5	1.101345	1	1.122317	2.5	1.22032	5	1.206385	10	1.233412
Indeno(1,2,3-cd)pyrene	0.2	1.121524	0.5	1.32292	1	1.409944	2.5	1.590272	5	1.628941	10	1.583568
Dibenzo(a,h)anthracene	0.2	0.9256101	0.5	1.109076	1	1.176882	2.5	1.320958	5	1.350104	10	1.305995
Benzo(g,h,i)perylene	0.2	0.9796118	0.5	1.132402	1	1.201964	2.5	1.357402	5	1.42789	10	1.366327
2-Fluorophenol	0.3	1.17021	0.75	1.261679	1.5	1.266774	3.75	1.303968	7.5	1.210352	15	1.167768
Phenol-d5	0.3	1.485429	0.75	1.590369	1.5	1.618326	3.75	1.691404	7.5	1.609716	15	1.575522
2-Chlorophenol-d4	0.3	1.261338	0.75	1.355292	1.5	1.384443	3.75	1.420173	7.5	1.374898	15	1.357401
1,2-Dichlorobenzene-d4	0.2	0.9420816	0.5	0.9800826	1	1.025212	2.5	1.023568	5	0.9490201	10	0.9543478
Nitrobenzene-d5	0.2	0.3650764	0.5	0.3986882	1	0.4101461	2.5	0.4261085	5	0.4187027	10	0.4110496

INITIAL CALIBRATION DATA

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GC00046	Instrument:	NT10
Calibration Date:	03/15/2023	Column (1):	ZB-5MSi

Calibration Comments: 625.1/8270E ICAL

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RRF	Conc	**RRF**	Conc	RRF	Conc	RRF	Conc	**RRF**	Conc	**RRF**
2-Fluorobiphenyl	0.2	1.623527	0.5	1.630708	1	1.616933	2.5	1.625878	5	1.553266	10	1.544261
2,4,6-Tribromophenol	0.3	9.930622E-02	0.75	0.135101	1.5	0.1514052	3.75	0.1764476	7.5	0.177783	15	0.1895637
p-Terphenyl-d14	0.2	1.184567	0.5	1.243423	1	1.268525	2.5	1.295244	5	1.260569	10	1.21091

INITIAL CALIBRATION DATA

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GC00046	Instrument:	NT10
Calibration Date:	03/15/2023	Column (1):	ZB-5MSi

Calibration Comments: 625.1/8270E ICAL

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
Phenol	20	1.521085										
4-Methylphenol	20	1.258843										
Naphthalene	20	0.9802185										
2-Methylnaphthalene	20	0.7350977										
Acenaphthylene	20	1.864621										
Dimethylphthalate	20	1.192451										
Acenaphthene	20	1.176068										
Dibenzofuran	20	1.709758										
Fluorene	20	1.366348										
Phenanthrene	20	1.042964										
Anthracene	20	1.041424										
Fluoranthene	20	1.730564										
Pyrene	20	1.710349										
Butylbenzylphthalate	20	0.6757807										
Benzo(a)anthracene	20	1.371766										
Chrysene	20	1.322435										
bis(2-Ethylhexyl)phthalate	20	0.5927596										
Benzofluoranthenes, Total	40	1.248781										
Benzo(a)pyrene	20	1.238145										
Indeno(1,2,3-cd)pyrene	20	1.666622										
Dibenzo(a,h)anthracene	20	1.382416										
Benzo(g,h,i)perylene	20	1.468793										
2-Fluorophenol	30	1.086771										
Phenol-d5	30	1.537369										
2-Chlorophenol-d4	30	1.332016										
1,2-Dichlorobenzene-d4	20	0.937777										
Nitrobenzene-d5	20	0.3964415										

INITIAL CALIBRATION DATA

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GC00046	Instrument:	NT10
Calibration Date:	03/15/2023	Column (1):	ZB-5MSi

Calibration Comments: 625.1/8270E ICAL

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
2-Fluorobiphenyl	20	1.481453										
2,4,6-Tribromophenol	30	0.1805241										
p-Terphenyl-d14	20	1.204127										

INITIAL CALIBRATION DATA

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GC00046	Instrument:	NT10
Calibration Date:	03/15/2023	Column (1):	ZB-5MSi

Calibration Comments: 625.1/8270E ICAL

COMPOUND	Mean RRF	RRF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
Phenol	1.649014	5.7			RSD (15)	
4-Methylphenol	1.266577	5.6			RSD (15)	
Naphthalene	1.059659	4.3			RSD (15)	
2-Methylnaphthalene	0.7647129	2.2			RSD (15)	
Acenaphthylene	1.996408	4.4			RSD (15)	
Dimethylphthalate	1.299431	4.8			RSD (15)	
Acenaphthene	1.233346	3.2			RSD (15)	
Dibenzofuran	1.818754	3.7			RSD (15)	
Fluorene	1.430868	3.3			RSD (15)	
Phenanthrene	1.090713	3.6			RSD (15)	
Anthracene	1.046276	4.9			RSD (15)	
Fluoranthene	1.607269	8.5			RSD (15)	
Pyrene	1.648772	5.9			RSD (15)	
Butylbenzylphthalate	0.5292894	22.5		0.9997	QCOD (0.99)	
Benzo(a)anthracene	1.411877	2.9			RSD (15)	
Chrysene	1.379378	2.6			RSD (15)	
bis(2-Ethylhexyl)phthalate	0.5248968	18.5		0.9999	QCOD (0.99)	
Benzofluoranthenes, Total	1.251902	2.4			RSD (15)	
Benzo(a)pyrene	1.159237	7.9			RSD (15)	
Indeno(1,2,3-cd)pyrene	1.474827	13.5			RSD (15)	
Dibenzo(a,h)anthracene	1.224434	13.4			RSD (15)	
Benzo(g,h,i)perylene	1.276341	13.9			RSD (15)	
2-Fluorophenol	1.209646	6.2			RSD (15)	
Phenol-d5	1.586876	4.1			RSD (15)	
2-Chlorophenol-d4	1.35508	3.7			RSD (15)	
1,2-Dichlorobenzene-d4	0.9731556	3.9			RSD (15)	
Nitrobenzene-d5	0.4037447	4.9			RSD (15)	
2-Fluorobiphenyl	1.582289	3.6			RSD (15)	
2,4,6-Tribromophenol	0.1585901	20.3		0.9993	QCOD (0.99)	
p-Terphenyl-d14	1.238195	3.2			RSD (15)	

ANALYSIS SEQUENCE

SLC0228

Instrument ID: NT10
Calibration ID: GC00046
MS EM Level: 1271 EV

GCMS Description: Agilent 5975/MS http://bi
GCMS Column ID: L002830

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	File ID	Analyst	Comments
SLC0228-TUN1	MS Tune	QC		1	K004775		03/15/2023 20:19	NT10031501.D	JGR	
SLC0228-CAL7	CAL 20	QC		2	K011111	K010831	03/15/2023 20:34	NT10031502.D	VTS	
SLC0228-CAL6	CAL 10	QC		3	K011110	K010831	03/15/2023 21:12	NT10031503.D	VTS	
SLC0228-CAL5	CAL 5	QC		4	K011109	K010831	03/15/2023 21:50	NT10031504.D	VTS	
SLC0228-CAL4	CAL 2.5	QC		5	K011108	K010831	03/15/2023 22:28	NT10031505.D	VTS	
SLC0228-CAL3	CAL 1.0	QC		6	K011107	K010831	03/15/2023 23:06	NT10031506.D	VTS	
SLC0228-CAL2	CAL 0.5	QC		7	K011106	K010831	03/15/2023 23:44	NT10031507.D	VTS	
SLC0228-CAL1	CAL 0.2	QC		8	K011105	K010831	03/16/2023 00:22	NT10031508.D	VTS	
SLC0228-SCV1	SCV 5.0	QC		9	L002833	K010831	03/16/2023 02:16	NT10031511.D	VTS	
SLC0228-ICB1	Initial Cal Blank	QC		10	K005156	K010831	03/16/2023 02:54	NT10031512.D	VTS	

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230315.b

	Time	Filename	LabID	ClientId	DF														
1	2019	NT10031501.D	SLC0228-TUN1		1	NO ISTDS FOUND													
2	2034	NT10031502.D	SLC0228-CAL7		1	9.30	177375	11.78	659656	15.38	352987	18.42	587447	23.46	356463	26.19	404994	24.49	617041
3	2112	NT10031503.D	SLC0228-CAL6		1	9.30	174984	11.78	633941	15.38	344087	18.42	605930	23.46	437116	26.18	463440	24.48	674085
4	2150	NT10031504.D	SLC0228-CAL5		1	9.30	171542	11.78	624466	15.38	337226	18.42	572849	23.45	347068	26.18	421549	24.48	500317
5	2228	NT10031505.D	SLC0228-CAL4		1	9.30	158570	11.78	582079	15.38	306729	18.42	522311	23.45	356282	26.18	420725	24.48	471925
6	2306	NT10031506.D	SLC0228-CAL3		1	9.29	172257	11.78	625894	15.38	330997	18.42	568685	23.45	426836	26.18	489106	24.48	555437
7	2344	NT10031507.D	SLC0228-CAL2		1	9.30	176328	11.78	638835	15.38	333617	18.42	594262	23.45	428263	26.18	479116	24.48	530893
8	0022	NT10031508.D	SLC0228-CAL1		1	9.29	173382	11.77	622719	15.38	323444	18.42	582036	23.45	443504	26.18	490725	24.48	540769
9	0100	NT10031509.D	SEQ-SIM2		1	9.29	175576	11.78	624440	15.38	329518	18.42	581173	23.45	424576	26.18	472151	24.48	491201
10	0138	NT10031510.D	SEQ-SIM1		1	9.30	172228	11.77	609518	15.38	313933	18.42	564567	23.45	413842	26.18	461161	24.48	469814
11	0216	NT10031511.D	SLC0228-SCV1		1	9.30	154809	11.78	570882	15.38	303490	18.42	533431	23.46	435381	26.19	494648	24.49	660827
12	0254	NT10031512.D	SLC0228-ICB1		1	9.30	173115	11.78	625865	15.38	328712	18.42	592693	23.45	442208	26.18	499804	24.48	526309

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230315.b

Instrument: nt10.i Date: 15-MAR-2023

Time	Filename	LabID	DF	Manually Integrated Compounds
2019	NT10031501.D	SLC0228-TUN1	1	NO MANUAL INTEGRATION
2034	NT10031502.D	SLC0228-CAL7	1	Benzoic acid,
2112	NT10031503.D	SLC0228-CAL6	1	2,2'-oxybis(1-Chloropropane),
2150	NT10031504.D	SLC0228-CAL5	1	2,2'-oxybis(1-Chloropropane),
2228	NT10031505.D	SLC0228-CAL4	1	2,2'-oxybis(1-Chloropropane),
2306	NT10031506.D	SLC0228-CAL3	1	2,2'-oxybis(1-Chloropropane),
2344	NT10031507.D	SLC0228-CAL2	1	2,2'-oxybis(1-Chloropropane), Benzoic acid,
0022	NT10031508.D	SLC0228-CAL1	1	2,2'-oxybis(1-Chloropropane), 1,2-Dichlorobenzene-d4,
0100	NT10031509.D	SEQ-SIM2	1	NO MANUAL INTEGRATION
0138	NT10031510.D	SEQ-SIM1	1	NO MANUAL INTEGRATION
0216	NT10031511.D	SLC0228-SCV1	1	NO MANUAL INTEGRATION
0254	NT10031512.D	SLC0228-ICB1	1	NO MANUAL INTEGRATION

Security Status Report

Date: 16-Mar-2023 13:06

NT10031501.D	Data Locked	van, 16-Mar-2023 13:06
NT10031502.D	Data Locked	van, 16-Mar-2023 13:06
NT10031503.D	Data Locked	van, 16-Mar-2023 13:06
NT10031504.D	Data Locked	van, 16-Mar-2023 13:06
NT10031505.D	Data Locked	van, 16-Mar-2023 13:06
NT10031506.D	Data Locked	van, 16-Mar-2023 13:06
NT10031507.D	Data Locked	van, 16-Mar-2023 13:06
NT10031508.D	Data Locked	van, 16-Mar-2023 13:06
NT10031509.D	Data Locked	van, 16-Mar-2023 13:06
NT10031510.D	Data Locked	van, 16-Mar-2023 13:06
NT10031511.D	Data Locked	van, 16-Mar-2023 13:06
NT10031512.D	Data Locked	van, 16-Mar-2023 13:06

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 15-MAR-2023 20:34
End Cal Date : 16-MAR-2023 00:22
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\target\share\chem3\nt10.i\20230315.b\ABN.m
Last Edit : 16-Mar-2023 10:24 van

Calibration File Names:
Level 1: \\target\share\chem3\nt10.i\20230315.b\NT10031508.D
Level 2: \\target\share\chem3\nt10.i\20230315.b\NT10031507.D
Level 3: \\target\share\chem3\nt10.i\20230315.b\NT10031506.D
Level 4: \\target\share\chem3\nt10.i\20230315.b\NT10031505.D
Level 5: \\target\share\chem3\nt10.i\20230315.b\NT10031504.D
Level 6: \\target\share\chem3\nt10.i\20230315.b\NT10031503.D
Level 7: \\target\share\chem3\nt10.i\20230315.b\NT10031502.D

Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
186 Carbaryl	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
179 n-Decane	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
180 n-Octadecane	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
169 4-tert-Butylphenol	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 15-MAR-2023 20:34
End Cal Date : 16-MAR-2023 00:22
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\target\share\chem3\nt10.i\20230315.b\ABN.m
Last Edit : 16-Mar-2023 10:24 van

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

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 15-MAR-2023 20:34
End Cal Date : 16-MAR-2023 00:22
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\target\share\chem3\nt10.i\20230315.b\ABN.m
Last Edit : 16-Mar-2023 10:24 van

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

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 15-MAR-2023 20:34
End Cal Date : 16-MAR-2023 00:22
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\target\share\chem3\nt10.i\20230315.b\ABN.m
Last Edit : 16-Mar-2023 10:24 van

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

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 15-MAR-2023 20:34
End Cal Date : 16-MAR-2023 00:22
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\target\share\chem3\nt10.i\20230315.b\ABN.m
Last Edit : 16-Mar-2023 10:24 van

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

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Method file : \\target\share\chem3\nt10.i\20230315.b\ABN.m
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Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
127 2-Isopropylnaphthalene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
126 N-Tetradecane	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
144 alpha-Terpineol	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
125 Safrole	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
124 3,4-Dimethylphenol	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
123 Acetophenone	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
122 Furfuraldehyde	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	

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Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
143 1,4-Dioxane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-
121 Quinoline	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	
120 2,3,4,6-Tetrachlorophenol	3113	11604	26430	82842	169344	374893						
	832943						QUAD	0.000e+000	2.48576	-0.15608	0.99970	
178 2-Benzyl-4-Chlorophenol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-
119 7,12-Dimethylbenz(a)anthracen	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	
118 Triphenyl Phosphate	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-
117 Butyl Diphenyl Phosphate	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-

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Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
116 Dibutyl Phenyl Phosphate	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-
115 Tributyl Phosphate	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-
114 Beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	
113 Diphenyl Oxide	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-
112 Biphenyl	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-
111 Azobenzene (1,2-DP-Hydrazine)	1.36599	1.46769	1.42898	1.48330	1.43111	1.39920						
	1.39306						AVRG		1.42419		2.92872	
110 Tetrachloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-

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

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Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
106 Guaiacol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-
105 1-methylnaphthalene	0.70080	0.71097	0.71031	0.71759	0.70593	0.69611						
	0.66277						AVRG		0.70064		2.58648	
151 1,2,4,5-Tetrachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-
152 Benzo(e)pyrene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	
153 Chlorpyrifos	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	
154 Diazinon	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	
155 Kelthane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	

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

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Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
163 1,2,3,5,8-Pentachloronaphthal	*****	*****	*****	*****	*****	*****					
	*****						AVRG		0.000e+000		0.000e+000
164 1,2,3,4,6,7-Hexachloronaphtha	*****	*****	*****	*****	*****	*****					
	*****						AVRG		0.000e+000		0.000e+000
165 1,2,3,4,5,6,7-Heptachloronaph	*****	*****	*****	*****	*****	*****					
	*****						AVRG		0.000e+000		0.000e+000
166 Octachloronaphthalene	*****	*****	*****	*****	*****	*****					
	*****						AVRG		0.000e+000		0.000e+000
167 2,2',4,4',5-Pentabromobipheny	*****	*****	*****	*****	*****	*****					
	*****						AVRG		0.000e+000		0.000e+000
3 Phenol	1.62208	1.74439	1.73891	1.74173	1.62645	1.54845					
	1.52108						AVRG		1.64901		5.72558
4 Bis(2-Chloroethyl)ether	1.27683	1.24672	1.27324	1.27820	1.20197	1.15937					
	1.12492						AVRG		1.22304		5.07805

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Compound	0.2000000 Level 1	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	20.0000 Level 7										
6 2-Chlorophenol	1.31836	1.41731	1.42385	1.43622	1.37595	1.46817					
	1.43943						AVRG		1.41133		3.51032
7 1,3-Dichlorobenzene	1.56095	1.60573	1.54200	1.54039	1.43756	1.41097					
	1.34684						AVRG		1.49206		6.30691
9 1,4-Dichlorobenzene	1.48239	1.47806	1.50605	1.46974	1.41044	1.40120					
	1.34165						AVRG		1.44136		4.05847
11 Benzyl alcohol	0.61725	0.73191	0.78594	0.84185	0.81966	0.81121					
	0.81015						AVRG		0.77400		9.98909
12 1,2-Dichlorobenzene	1.45921	1.48260	1.47819	1.46666	1.37638	1.35694					
	1.30961						AVRG		1.41851		4.90685
13 2-Methylphenol	1.09919	1.21769	1.25424	1.27936	1.21240	1.18086					
	1.17082						AVRG		1.20208		4.92825
14 2,2'-oxybis(1-Chloropropane)	0.43522	0.42661	0.43105	0.42276	0.39592	0.39745					
	0.40701						AVRG		0.41658		3.89547

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Compound	0.2000000 Level 1	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	20.0000 Level 7										
15 4-Methylphenol	1.14383	1.24400	1.30788	1.37440	1.28697	1.25011					
	1.25884						AVRG		1.26658		5.55066
16 N-Nitroso-di-n-propylamine	0.88706	0.94832	0.97868	1.00698	0.96681	0.92156					
	0.93481						AVRG		0.94917		4.15918
17 Hexachloroethane	0.58022	0.59004	0.60326	0.60841	0.58693	0.58291					
	0.58784						AVRG		0.59137		1.77557
19 Nitrobenzene	0.38078	0.40475	0.41137	0.41334	0.39831	0.38702					
	0.37799						AVRG		0.39622		3.65024
20 Isophorone	0.43358	0.46625	0.48978	0.51777	0.50778	0.56780					
	0.56515						AVRG		0.50687		9.71300
21 2-Nitrophenol	+++++	0.13597	0.15387	0.18600	0.19598	0.19551					
	0.19693						AVRG		0.17738		14.69885
22 2,4-Dimethylphenol	0.34977	0.37592	0.37563	0.37929	0.35984	0.35410					
	0.33882						AVRG		0.36191		4.26888

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Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
23 Bis(2-Chloroethoxy)methane	0.34150	0.35424	0.35450	0.35426	0.32695	0.32213					
	0.31648						AVRG		0.33858		4.89393
24 Benzoic acid	+++++	22417	66707	255448	660270	1448000					
	3461038						QUAD	0.000e+000	4.94987	-0.21794	0.99939
25 2,4-Dichlorophenol	0.23282	0.27832	0.29083	0.34192	0.30456	0.30206					
	0.28812						AVRG		0.29123		11.26110
26 1,2,4-Trichlorobenzene	0.36331	0.36162	0.35565	0.34701	0.33055	0.32721					
	0.30769						AVRG		0.34186		6.06312
28 Naphthalene	1.11424	1.09175	1.07629	1.08516	1.03942	1.03054					
	0.98022						AVRG		1.05966		4.30817
29 4-Chloroaniline	0.37193	0.41433	0.41901	0.42776	0.42475	0.42130					
	0.41465						AVRG		0.41339		4.58016
30 Hexachlorobutadiene	0.20420	0.20378	0.20957	0.20328	0.19562	0.19813					
	0.18759						AVRG		0.20031		3.58980

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Compound	0.2000000 Level 1	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	20.0000 Level 7										
31 4-Chloro-3-methylphenol	+++++	0.29534	0.30559	0.32408	0.32488	0.32531					
	0.31645						AVRG		0.31527		3.91891
32 2-Methylnaphthalene	0.75681	0.76700	0.77315	0.79056	0.77004	0.76034					
	0.73510						AVRG		0.76471		2.22131
33 Hexachlorocyclopentadiene	+++++	0.32165	0.33383	0.38329	0.38506	0.39494					
	0.40240						AVRG		0.37020		9.13748
34 2,4,6-Trichlorophenol	+++++	0.34057	0.37275	0.40914	0.40785	0.42738					
	0.41440						AVRG		0.39535		8.19371
35 2,4,5-Trichlorophenol	+++++	0.39438	0.41480	0.45747	0.45138	0.46294					
	0.45473						AVRG		0.43928		6.35086
37 2-Chloronaphthalene	1.31831	1.32063	1.30168	1.33284	1.25800	1.22443					
	1.21247						AVRG		1.28119		3.83736
38 2-Nitroaniline	+++++	0.31701	0.34135	0.38455	0.37858	0.37163					
	0.36621						AVRG		0.35989		7.15743

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Compound	0.2000000 Level 1	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	20.0000 Level 7										
39 Dimethylphthalate	1.32338	1.36926	1.34576	1.33799	1.26731	1.25985					
	1.19245						AVRG		1.29943		4.77776
40 Acenaphthylene	1.91415	2.07587	2.06493	2.10180	1.96913	1.98437					
	1.86462						AVRG		1.99641		4.43977
41 2,6-Dinitrotoluene	+++++	0.24183	0.26775	0.29467	0.29272	0.29827					
	0.28900						AVRG		0.28071		7.79723
43 3-Nitroaniline	+++++	0.28085	0.30392	0.33270	0.32419	0.33426					
	0.32509						AVRG		0.31683		6.52864
44 Acenaphthene	1.28251	1.26169	1.25479	1.25637	1.19640	1.20560					
	1.17607						AVRG		1.23335		3.24756
45 2,4-Dinitrophenol	+++++	6815	25006	95470	266923	674586					
	1465989						QUAD	0.000e+000	5.90362	-0.26772	0.99767
46 Dibenzofuran	1.83679	1.89233	1.84203	1.89221	1.79473	1.76343					
	1.70976						AVRG		1.81875		3.70158

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	20.0000 Level 7										
47 4-Nitrophenol	+++++	10811	26972	72524	160601	346416					
	684596						QUAD	0.000e+000	5.01739	0.06496	0.99964
48 2,4-Dinitrotoluene	7302	27229	61485	155514	337620	723393					
	1405429						QUAD	0.000e+000	2.35401	0.03800	0.99969
49 Fluorene	1.40605	1.45103	1.47671	1.50043	1.40082	1.41469					
	1.36635						AVRG		1.43087		3.28917
50 Diethylphthalate	1.20144	1.24989	1.30138	1.31975	1.24786	1.27783					
	1.32643						AVRG		1.27494		3.52654
51 4-Chlorophenyl-phenylether	0.69799	0.68992	0.68629	0.69085	0.66721	0.67242					
	0.65828						AVRG		0.68042		2.13873
52 4-Nitroaniline	+++++	0.27470	0.28009	0.23607	0.29239	0.32686					
	0.30307						AVRG		0.28553		10.68771
53 4,6-Dinitro-2-methylphenol	+++++	16474	45458	137459	335578	794181					
	1560214						QUAD	0.000e+000	8.27405	-0.28973	0.99917

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 15-MAR-2023 20:34
End Cal Date : 16-MAR-2023 00:22
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\target\share\chem3\nt10.i\20230315.b\ABN.m
Last Edit : 16-Mar-2023 10:24 van

Compound	0.2000000 Level 1	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	20.0000 Level 7										
54 N-Nitrosodiphenylamine	0.52887	0.55193	0.55561	0.56260	0.51812	0.51180					
	0.51457						AVRG		0.53479		4.00425
56 4-Bromophenyl-phenylether	0.19782	0.21343	0.22682	0.23565	0.23145	0.23263					
	0.22827						AVRG		0.22372		6.02001
57 Hexachlorobenzene	0.24985	0.23051	0.24765	0.24355	0.22752	0.22384					
	0.21902						AVRG		0.23456		5.24539
58 Pentachlorophenol	+++++	11460	28829	82114	191672	452371					
	885410						QUAD	0.000e+000	7.20876	-0.39477	0.99931
60 Phenanthrene	1.13220	1.10631	1.12088	1.12703	1.05199	1.05362					
	1.04296						AVRG		1.09071		3.61900
61 Anthracene	0.95571	1.01224	1.06526	1.11534	1.05296	1.08099					
	1.04142						AVRG		1.04628		4.89905
62 Carbazole	0.88933	0.95562	0.99664	0.98309	0.89914	0.95168					
	0.88743						AVRG		0.93756		4.84977

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 15-MAR-2023 20:34
End Cal Date : 16-MAR-2023 00:22
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\target\share\chem3\nt10.i\20230315.b\ABN.m
Last Edit : 16-Mar-2023 10:24 van

Compound	0.2000000 Level 1	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	20.0000 Level 7										
63 Di-n-butylphthalate	22443	69653	154356	388084	843782	1947970					
	3613228						QUAD	0.000e+000	0.79314	0.00278	0.99940
64 Fluoranthene	1.36328	1.52056	1.56197	1.69351	1.74914	1.63187					
	1.73056						AVRG		1.60727		8.51839
65 Pyrene	1.45604	1.60944	1.63082	1.72763	1.73920	1.66793					
	1.71035						AVRG		1.64877		5.94096
67 Butylbenzylphthalate	7408	23199	51900	123600	257731	684422					
	1204454						QUAD	0.000e+000	1.72914	-0.07421	0.99990
68 Benzo(a)anthracene	1.36644	1.42781	1.43022	1.48555	1.41212	1.38924					
	1.37177						AVRG		1.41188		2.92087
70 3,3'-Dichlorobenzidine	+++++	0.41680	0.45352	0.46701	0.40921	0.46337					
	0.50355						AVRG		0.45224		7.71340
71 Chrysene	1.35945	1.42987	1.40133	1.40717	1.37420	1.36119					
	1.32243						AVRG		1.37938		2.61415

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 15-MAR-2023 20:34
End Cal Date : 16-MAR-2023 00:22
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\target\share\chem3\nt10.i\20230315.b\ABN.m
Last Edit : 16-Mar-2023 10:24 van

Compound	0.2000000 Level 1	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	20.0000 Level 7										
72 bis(2-Ethylhexyl)phthalate	9248	29596	73435	172996	367877	994125					
	1828785						QUAD	0.000e+000	1.70957	-0.00774	0.99996
73 Di-n-octylphthalate	1.13505	1.06235	1.05217	1.05751	1.02687	1.01350					
	0.97997						AVRG		1.04677		4.63862
74 Benzo(b)fluoranthene	1.17883	1.29968	1.27339	1.34308	1.32964	1.39410					
	1.25750						AVRG		1.29660		5.33463
75 Benzo(k)fluoranthene	1.32608	1.27815	1.33166	1.33571	1.27907	1.30669					
	1.35881						AVRG		1.31660		2.28881
187 Total Benzofluoranthenes	1.19572	1.24517	1.25308	1.28055	1.25155	1.28847					
	1.24878						AVRG		1.25190		2.38989
76 Benzo(a)pyrene	0.99274	1.10134	1.12232	1.22032	1.20639	1.23341					
	1.23814						AVRG		1.15924		7.88419
78 Indeno(1,2,3-cd)pyrene	1.12152	1.32292	1.40994	1.59027	1.62894	1.58357					
	1.66662						AVRG		1.47483		13.49853

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 15-MAR-2023 20:34
End Cal Date : 16-MAR-2023 00:22
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\target\share\chem3\nt10.i\20230315.b\ABN.m
Last Edit : 16-Mar-2023 10:24 van

Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
79 Dibenzo(a,h)anthracene	0.92561	1.10908	1.17688	1.32096	1.35010	1.30600					
	1.38242						AVRG		1.22443		13.40261
80 Benzo(g,h,i)perylene	0.97961	1.13240	1.20196	1.35740	1.42789	1.36633					
	1.46879						AVRG		1.27634		13.90451
90 N-Nitrosodimethylamine	0.77338	0.85958	0.80600	0.83443	0.77037	0.71258					
	0.64576						AVRG		0.77173		9.49214
91 Aniline	1.71731	1.77469	1.73024	1.75620	1.67046	1.59418					
	1.58456						AVRG		1.68966		4.49435
92 1,2-Diphenylhydrazine	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG		0.000e+000		0.000e+000
93 Benzidine	+++++	0.58897	0.67279	0.70566	0.65150	0.69961					
	0.64270						AVRG		0.66021		6.50918
96 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG		0.000e+000		0.000e+000

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 15-MAR-2023 20:34
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Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\target\share\chem3\nt10.i\20230315.b\ABN.m
Last Edit : 16-Mar-2023 10:24 van

Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
97 Caffeine	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
98 Retene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
99 Perylene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
100 3-beta-Coprostanol	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
101 Cholesterol	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
102 beta-Sitosterol	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
103 Pyridine	1.12693 / 1.00113	1.33308	1.27029	1.29268	1.21465	1.05774	AVRG		1.18522		10.61953	

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 15-MAR-2023 20:34
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Integrator : HP RTE
Method file : \\target\share\chem3\nt10.i\20230315.b\ABN.m
Last Edit : 16-Mar-2023 10:24 van

Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
188 2,6-Dichlorophenol	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
189 N-Nitrosomethylethylamine	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
$ 1 2-Fluorophenol	1.17021 / 1.08677	1.26168	1.26677	1.30397	1.21035	1.16777	AVRG		1.20965		6.15640	
$ 137 d8-1,4-Dioxane	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
$ 2 Phenol-d5	1.48543 / 1.53737	1.59037	1.61833	1.69140	1.60972	1.57552	AVRG		1.58688		4.09370	
$ 5 2-Chlorophenol-d4	1.26134 / 1.33202	1.35529	1.38444	1.42017	1.37490	1.35740	AVRG		1.35508		3.66724	
$ 10 1,2-Dichlorobenzene-d4	0.94208 / 0.93778	0.98008	1.02521	1.02357	0.94902	0.95435	AVRG		0.97316		3.85694	

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 15-MAR-2023 20:34
End Cal Date : 16-MAR-2023 00:22
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\target\share\chem3\nt10.i\20230315.b\ABN.m
Last Edit : 16-Mar-2023 10:24 van

Compound	0.2000000 Level 1 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
$ 18 Nitrobenzene-d5	0.36508	0.39869	0.41015	0.42611	0.41870	0.41105					
	0.39644						AVRG		0.40374		4.94574
$ 36 2-Fluorobiphenyl	1.62353	1.63071	1.61693	1.62588	1.55327	1.54426					
	1.48145						AVRG		1.58229		3.61230
$ 55 2,4,6-Tribromophenol	2409	8451	18793	50739	112412	244599					
	477920						QUAD	0.000e+000	5.31174	0.15583	0.99955
$ 66 Terphenyl-d14	1.18457	1.24342	1.26852	1.29524	1.26057	1.21091					
	1.20413						AVRG		1.23819		3.21084
$ 85 p-Cresol-d4	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG		0.000e+000		0.000e+000
$ 86 Anthracene-d10	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG		0.000e+000		0.000e+000
$ 87 Fluoranthene-d10	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG		0.000e+000		0.000e+000

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 15-MAR-2023 20:34
End Cal Date : 16-MAR-2023 00:22
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\target\share\chem3\nt10.i\20230315.b\ABN.m
Last Edit : 16-Mar-2023 10:24 van

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

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 15-MAR-2023 20:34
End Cal Date : 16-MAR-2023 00:22
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\target\share\chem3\nt10.i\20230315.b\ABN.m
Last Edit : 16-Mar-2023 10:24 van

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

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20230315.b\ABN.m
Batch File: \\target\share\chem3\nt10.i\20230315.b
Inst ID: nt10.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06	RT07
FILENAME:	NT10031502	NT10031503	NT10031504	NT10031505	NT10031506	NT10031507	NT10031508
INJ.DATE:	15-MAR-2023	15-MAR-2023	15-MAR-2023	15-MAR-2023	15-MAR-2023	15-MAR-2023	16-MAR-2023
INJ.TIME:	20:34	21:12	21:50	22:28	23:06	23:44	00:22

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
$ 1 2-Fluorophenol	7.068	7.068	7.068	7.068	7.068	7.068	7.068	7.068	4.068-10.068	7.068	0.000
186 Carbaryl	+++++	+++++	+++++	+++++	+++++	+++++	+++++	18.785	15.785-21.785	+++++	+++++
179 n-Decane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.645	5.645-11.645	+++++	+++++
180 n-Octadecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.455	14.455-20.455	+++++	+++++
169 4-tert-Butylphenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	20.696	17.696-23.696	+++++	+++++
170 N,N-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	19.219	16.219-22.219	+++++	+++++
171 2,3-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	19.559	16.559-22.559	+++++	+++++
172 2,4-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	19.559	16.559-22.559	+++++	+++++
173 2,5-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	22.949	19.949-25.949	+++++	+++++
174 2,6-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	19.196	16.196-22.196	+++++	+++++
175 3,4-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	19.559	16.559-22.559	+++++	+++++
176 3,5-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	20.503	17.503-23.503	+++++	+++++
177 p-Benzoquinone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.827	4.827-10.827	+++++	+++++
168 Pentachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	15.842	12.842-18.842	+++++	+++++
145 4,4'-DDE	+++++	+++++	+++++	+++++	+++++	+++++	+++++	47.212	44.212-50.212	+++++	+++++
146 4,4'-DDD	+++++	+++++	+++++	+++++	+++++	+++++	+++++	47.746	44.746-50.746	+++++	+++++
147 4,4'-DDT	+++++	+++++	+++++	+++++	+++++	+++++	+++++	48.216	45.216-51.216	+++++	+++++

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

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20230315.b\ABN.m
Batch File: \\target\share\chem3\nt10.i\20230315.b
Inst ID: nt10.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
148 Dieldrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	47.281	44.281-50.281	+++++	+++++
149 TCMX	+++++	+++++	+++++	+++++	+++++	+++++	+++++	43.387	40.387-46.387	+++++	+++++
150 DCBP	+++++	+++++	+++++	+++++	+++++	+++++	+++++	50.989	47.989-53.989	+++++	+++++
138 Chlorobenzilate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	67.733	64.733-70.733	+++++	+++++
139 Isodrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	65.067	62.067-68.067	+++++	+++++
140 Diallate A	+++++	+++++	+++++	+++++	+++++	+++++	+++++	65.487	62.487-68.487	+++++	+++++
141 Diallate B	+++++	+++++	+++++	+++++	+++++	+++++	+++++	65.487	62.487-68.487	+++++	+++++
142 1,2-Dibromo-3-Chloropr	+++++	+++++	+++++	+++++	+++++	+++++	+++++	49.917	46.917-52.917	+++++	+++++
135 2,3,5,6-Tetrachlorophe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.383	13.383-19.383	+++++	+++++
136 2,3,4,5-tetrachlorophe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	39.317	36.317-42.317	+++++	+++++
$ 137 d8-1,4-Dioxane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	2.445	0.000-5.445	+++++	+++++
* 134 Di-n-octylphthalate-d4	24.488	24.479	24.480	24.480	24.479	24.480	24.480	24.480	21.480-27.480	24.481	0.003
133 Butylatedhydroxytoluen	+++++	+++++	+++++	+++++	+++++	+++++	+++++	15.571	12.571-18.571	+++++	+++++
132 3,6-Dimethylphenanthre	+++++	+++++	+++++	+++++	+++++	+++++	+++++	65.450	62.450-68.450	+++++	+++++
131 1-Methylphenanthrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	64.400	61.400-67.400	+++++	+++++
130 Dibenzothiophene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	62.100	59.100-65.100	+++++	+++++
129 1-Methylfluorene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	54.912	51.912-57.912	+++++	+++++
128 N-Hexadecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	54.212	51.212-57.212	+++++	+++++
127 2-Isopropylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	57.650	54.650-60.650	+++++	+++++
126 N-Tetradecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	56.750	53.750-59.750	+++++	+++++
144 alpha-Terpineol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.447	8.447-14.447	+++++	+++++
125 Safrole	+++++	+++++	+++++	+++++	+++++	+++++	+++++	52.166	49.166-55.166	+++++	+++++

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20230315.b\ABN.m
Batch File: \\target\share\chem3\nt10.i\20230315.b
Inst ID: nt10.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
124 3,4-Dimethylphenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	50.617	47.617-53.617	+++++	+++++
123 Acetophenone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	10.252	7.252-13.252	+++++	+++++
122 Furfuraldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	43.467	40.467-46.467	+++++	+++++
143 1,4-Dioxane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	2.697	0.000-5.697	+++++	+++++
121 Quinoline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	54.500	51.500-57.500	+++++	+++++
120 2,3,4,6-Tetrachlorophe	16.110	16.101	16.102	16.103	16.109	16.102	16.103	16.103	13.103-19.103	16.104	0.004
178 2-Benzyl-4-Chloropheno	+++++	+++++	+++++	+++++	+++++	+++++	+++++	18.963	15.963-21.963	+++++	+++++
119 7,12-Dimethylbenz(a)an	+++++	+++++	+++++	+++++	+++++	+++++	+++++	47.069	44.069-50.069	+++++	+++++
118 Triphenyl Phosphate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	21.215	18.215-24.215	+++++	+++++
117 Butyl Diphenyl Phospha	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.761	13.761-19.761	+++++	+++++
116 Dibutyl Phenyl Phospha	+++++	+++++	+++++	+++++	+++++	+++++	+++++	18.747	15.747-21.747	+++++	+++++
115 Tributyl Phosphate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.923	13.923-19.923	+++++	+++++
114 Beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	48.950	45.950-51.950	+++++	+++++
113 Diphenyl Oxide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.341	11.341-17.341	+++++	+++++
112 Biphenyl	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.085	11.085-17.085	+++++	+++++
111 Azobenzene (1,2-DP-Hyd	16.805	16.796	16.797	16.790	16.797	16.797	16.790	16.790	13.790-19.790	16.796	0.005
110 Tetrachloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.140	14.140-20.140	+++++	+++++
109 3,4,5-Trichloroguaiaco	+++++	+++++	+++++	+++++	+++++	+++++	+++++	15.070	12.070-18.070	+++++	+++++
181 3,4,6-Trichloroguaiaco	+++++	+++++	+++++	+++++	+++++	+++++	+++++	15.232	12.232-18.232	+++++	+++++
108 4,5,6-Trichloroguaiaco	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.374	13.374-19.374	+++++	+++++
184 3,4-Dichloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	13.120	10.120-16.120	+++++	+++++
107 4,5-Dichloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.096	11.096-17.096	+++++	+++++
182 4,6-Dichloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.096	11.096-17.096	+++++	+++++
185 4-Chloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.735	8.735-14.735	+++++	+++++

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20230315.b\ABN.m
Batch File: \\target\share\chem3\nt10.i\20230315.b
Inst ID: nt10.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
		+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.243	6.243-12.243	+++++	+++++
106	Guaiacol	13.433	13.432	13.433	13.426	13.432	13.425	13.426	13.426	10.426-16.426	13.430	0.004
105	1-methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.499	8.499-14.499	+++++	+++++
151	1,2,4,5-Tetrachloroben	+++++	+++++	+++++	+++++	+++++	+++++	+++++	30.943	27.943-33.943	+++++	+++++
152	Benzo(e)pyrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	27.642	24.642-30.642	+++++	+++++
153	Chlorpyrifos	+++++	+++++	+++++	+++++	+++++	+++++	+++++	25.953	22.953-28.953	+++++	+++++
154	Diazinon	+++++	+++++	+++++	+++++	+++++	+++++	+++++	27.750	24.750-30.750	+++++	+++++
155	Kelthane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	26.464	23.464-29.464	+++++	+++++
156	Methyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	27.099	24.099-30.099	+++++	+++++
157	Ethyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	24.513	21.513-27.513	+++++	+++++
158	Ethion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	25.132	22.132-28.132	+++++	+++++
159	4-Nonylphenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	19.528	16.528-22.528	+++++	+++++
160	Tetraethyl Tin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	36.246	33.246-39.246	+++++	+++++
161	1,2,3-Trichloronaphtha	+++++	+++++	+++++	+++++	+++++	+++++	+++++	37.506	34.506-40.506	+++++	+++++
162	1,2,3,4-Tetrachloronap	+++++	+++++	+++++	+++++	+++++	+++++	+++++	38.893	35.893-41.893	+++++	+++++
163	1,2,3,5,8-Pentachloron	+++++	+++++	+++++	+++++	+++++	+++++	+++++	39.681	36.681-42.681	+++++	+++++
164	1,2,3,4,6,7-Hexachloro	+++++	+++++	+++++	+++++	+++++	+++++	+++++	41.123	38.123-44.123	+++++	+++++
165	1,2,3,4,5,6,7-Heptachl	+++++	+++++	+++++	+++++	+++++	+++++	+++++	42.253	39.253-45.253	+++++	+++++
166	Octachloronaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	42.033	39.033-45.033	+++++	+++++
167	2,2',4,4',5-Pentabromo	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.637	5.637-11.637	8.639	0.007
$ 2	Phenol-d5	8.652	8.644	8.637	8.629	8.636	8.637	8.637	8.660	5.660-11.660	8.660	0.008
3	Phenol	8.675	8.659	8.660	8.660	8.652	8.660	8.652	8.838	5.838-11.838	8.840	0.004
4	Bis(2-Chloroethyl)ethe	8.845	8.845	8.837	8.838	8.837	8.837	8.838	8.930	5.930-11.930	8.932	0.004
$ 5	2-Chlorophenol-d4	8.938	8.937	8.930	8.930	8.930	8.930	8.930				

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20230315.b\ABN.m
Batch File: \\target\share\chem3\nt10.i\20230315.b
Inst ID: nt10.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	6 2-Chlorophenol	8.969	8.961	8.961	8.961	8.961	8.961	8.961	8.961	5.961-11.961	8.962	0.003
	7 1,3-Dichlorobenzene	9.240	9.239	9.232	9.232	9.239	9.232	9.232	9.232	6.232-12.232	9.235	0.004
*	8 1,4-Dichlorobenzene-d4	9.302	9.301	9.302	9.302	9.294	9.302	9.294	9.294	6.294-12.294	9.299	0.004
	9 1,4-Dichlorobenzene	9.333	9.332	9.325	9.325	9.325	9.333	9.325	9.325	6.325-12.325	9.328	0.004
$	10 1,2-Dichlorobenzene-d4	9.666	9.658	9.659	9.659	9.658	9.659	9.659	9.659	6.659-12.659	9.660	0.003
	11 Benzyl alcohol	9.565	9.557	9.558	9.558	9.557	9.558	9.558	9.558	6.558-12.558	9.559	0.003
	12 1,2-Dichlorobenzene	9.690	9.689	9.682	9.682	9.682	9.682	9.682	9.682	6.682-12.682	9.684	0.004
	13 2-Methylphenol	9.775	9.775	9.775	9.775	9.767	9.767	9.767	9.767	6.767-12.767	9.772	0.004
	14 2,2'-oxybis(1-Chloropr	9.861	9.860	9.860	9.861	9.860	9.853	9.861	9.861	6.861-12.861	9.859	0.003
	15 4-Methylphenol	10.047	10.039	10.039	10.031	10.031	10.031	10.031	10.031	7.031-13.031	10.036	0.006
	16 N-Nitroso-di-n-propyla	10.132	10.124	10.117	10.117	10.109	10.117	10.109	10.109	7.109-13.109	10.118	0.008
	17 Hexachloroethane	10.280	10.279	10.272	10.272	10.272	10.272	10.272	10.272	7.272-13.272	10.274	0.004
$	18 Nitrobenzene-d5	10.396	10.388	10.388	10.388	10.388	10.388	10.388	10.388	7.388-13.388	10.389	0.003
	19 Nitrobenzene	10.435	10.427	10.427	10.419	10.419	10.419	10.419	10.419	7.419-13.419	10.424	0.006
	20 Isophorone	10.885	10.869	10.862	10.862	10.861	10.862	10.862	10.862	7.862-13.862	10.866	0.009
	21 2-Nitrophenol	11.057	11.047	11.047	11.048	11.047	11.047	11.048	11.048	8.048-14.048	11.049	0.003
	22 2,4-Dimethylphenol	11.091	11.089	11.081	11.082	11.081	11.081	11.082	11.082	8.082-14.082	11.084	0.004
	23 Bis(2-Chloroethoxy)met	11.294	11.285	11.285	11.286	11.285	11.285	11.286	11.286	8.286-14.286	11.286	0.003
	24 Benzoic acid	11.413	11.327	11.276	11.226	11.183	11.166	+++++	11.166	8.166-14.166	11.265	0.094
	25 2,4-Dichlorophenol	11.506	11.497	11.497	11.489	11.488	11.489	11.489	11.489	8.489-14.489	11.494	0.007
	26 1,2,4-Trichlorobenzene	11.693	11.692	11.685	11.685	11.684	11.685	11.685	11.685	8.685-14.685	11.687	0.004
*	27 Naphthalene-d8	11.778	11.777	11.777	11.778	11.777	11.777	11.770	11.770	8.770-14.770	11.776	0.003
	28 Naphthalene	11.824	11.815	11.816	11.817	11.816	11.816	11.817	11.817	8.817-14.817	11.817	0.003
	29 4-Chloroaniline	11.948	11.939	11.939	11.940	11.939	11.939	11.940	11.940	8.940-14.940	11.941	0.003

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20230315.b\ABN.m
Batch File: \\target\share\chem3\nt10.i\20230315.b
Inst ID: nt10.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	30 Hexachlorobutadiene	12.172	12.171	12.171	12.172	12.171	12.171	12.172	12.172	9.172-15.172	12.171	0.001
	31 4-Chloro-3-methylpheno	12.892	12.883	12.875	12.876	12.875	12.883	12.876	12.876	9.876-15.876	12.880	0.006
	32 2-Methylnaphthalene	13.209	13.208	13.200	13.201	13.200	13.208	13.201	13.201	10.201-16.201	13.204	0.004
	33 Hexachlorocyclopentadi	13.673	13.665	13.665	13.666	13.665	13.673	13.666	13.666	10.666-16.666	13.667	0.004
	34 2,4,6-Trichlorophenol	13.828	13.819	13.820	13.820	13.819	13.820	13.820	13.820	10.820-16.820	13.821	0.003
	35 2,4,5-Trichlorophenol	13.898	13.889	13.889	13.890	13.889	13.889	13.890	13.890	10.890-16.890	13.891	0.003
$	36 2-Fluorobiphenyl	13.991	13.982	13.982	13.983	13.982	13.982	13.975	13.975	10.975-16.975	13.982	0.004
	37 2-Chloronaphthalene	14.207	14.198	14.199	14.200	14.199	14.199	14.192	14.192	11.192-17.192	14.199	0.004
	38 2-Nitroaniline	14.470	14.454	14.454	14.447	14.454	14.446	14.447	14.447	11.447-17.447	14.453	0.008
	39 Dimethylphthalate	14.888	14.880	14.880	14.873	14.872	14.880	14.873	14.873	11.873-17.873	14.878	0.006
	40 Acenaphthylene	15.074	15.073	15.066	15.067	15.073	15.066	15.067	15.067	12.067-18.067	15.069	0.004
	41 2,6-Dinitrotoluene	15.036	15.027	15.019	15.020	15.019	15.019	15.012	15.012	12.012-18.012	15.022	0.007
*	42 Acenaphthene-d10	15.384	15.383	15.383	15.384	15.383	15.383	15.384	15.384	12.384-18.384	15.383	0.001
	43 3-Nitroaniline	15.322	15.313	15.306	15.299	15.298	15.298	15.299	15.299	12.299-18.299	15.305	0.009
	44 Acenaphthene	15.453	15.452	15.445	15.446	15.452	15.452	15.446	15.446	12.446-18.446	15.449	0.004
	45 2,4-Dinitrophenol	15.538	15.522	15.514	15.515	15.514	15.514	15.515	15.515	12.515-18.515	15.519	0.009
	46 Dibenzofuran	15.778	15.777	15.769	15.770	15.769	15.769	15.770	15.770	12.770-18.770	15.772	0.004
	47 4-Nitrophenol	15.623	15.607	15.599	15.600	15.599	15.599	15.592	15.592	12.592-18.592	15.603	0.010
	48 2,4-Dinitrotoluene	15.840	15.831	15.824	15.824	15.823	15.824	15.817	15.817	12.817-18.817	15.826	0.007
	49 Fluorene	16.489	16.488	16.488	16.481	16.488	16.488	16.481	16.481	13.481-19.481	16.486	0.003
	50 Diethylphthalate	16.342	16.333	16.326	16.327	16.326	16.326	16.319	16.319	13.319-19.319	16.329	0.007
	51 4-Chlorophenyl-phenyle	16.474	16.473	16.465	16.466	16.473	16.473	16.466	16.466	13.466-19.466	16.470	0.004
	52 4-Nitroaniline	16.605	16.588	16.573	16.566	16.565	16.565	16.566	16.566	13.566-19.566	16.576	0.015
	53 4,6-Dinitro-2-methylph	16.690	16.673	16.666	16.659	16.658	16.666	16.659	16.659	13.659-19.659	16.667	0.011

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20230315.b\ABN.m
Batch File: \\target\share\chem3\nt10.i\20230315.b
Inst ID: nt10.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	54 N-Nitrosodiphenylamine	16.728	16.719	16.720	16.720	16.719	16.720	16.713	16.713	13.713-19.713	16.720	0.004
$	55 2,4,6-Tribromophenol	17.029	17.020	17.020	17.021	17.020	17.020	17.021	17.021	14.021-20.021	17.022	0.003
	56 4-Bromophenyl-phenylet	17.476	17.475	17.475	17.476	17.475	17.475	17.476	17.476	14.476-20.476	17.476	0.001
	57 Hexachlorobenzene	17.801	17.800	17.792	17.793	17.800	17.792	17.793	17.793	14.793-20.793	17.796	0.004
	58 Pentachlorophenol	18.157	18.148	18.149	18.149	18.148	18.149	18.149	18.149	15.149-21.149	18.150	0.003
*	59 Phenanthrene-d10	18.420	18.419	18.419	18.420	18.419	18.419	18.420	18.420	15.420-21.420	18.420	0.001
	60 Phenanthrene	18.474	18.473	18.466	18.467	18.466	18.466	18.467	18.467	15.467-21.467	18.468	0.004
	61 Anthracene	18.567	18.566	18.559	18.559	18.558	18.559	18.559	18.559	15.559-21.559	18.561	0.004
	62 Carbazole	18.892	18.883	18.884	18.884	18.883	18.884	18.884	18.884	15.884-21.884	18.885	0.003
	63 Di-n-butylphthalate	19.666	19.665	19.665	19.666	19.665	19.665	19.666	19.666	16.666-22.666	19.665	0.001
	64 Fluoranthene	20.850	20.841	20.841	20.842	20.841	20.841	20.842	20.842	17.842-23.842	20.842	0.003
	65 Pyrene	21.275	21.266	21.267	21.267	21.266	21.267	21.267	21.267	18.267-24.267	21.268	0.003
$	66 Terphenyl-d14	21.546	21.545	21.537	21.546	21.545	21.545	21.538	21.538	18.538-24.538	21.543	0.004
	67 Butylbenzylphthalate	22.467	22.458	22.459	22.460	22.459	22.459	22.460	22.460	19.460-25.460	22.460	0.003
	68 Benzo(a)anthracene	23.427	23.426	23.419	23.420	23.419	23.427	23.420	23.420	20.420-26.420	23.423	0.004
*	69 Chrysene-d12	23.458	23.457	23.450	23.451	23.450	23.450	23.451	23.451	20.451-26.451	23.452	0.004
	70 3,3'-Dichlorobenzidine	23.389	23.380	23.372	23.373	23.372	23.372	23.373	23.373	20.373-26.373	23.376	0.006
	71 Chrysene	23.505	23.504	23.496	23.497	23.496	23.496	23.489	23.489	20.489-26.489	23.498	0.005
	72 bis(2-Ethylhexyl)phtha	23.482	23.481	23.473	23.482	23.481	23.481	23.474	23.474	20.474-26.474	23.479	0.004
	73 Di-n-octylphthalate	24.496	24.495	24.495	24.496	24.487	24.487	24.488	24.488	21.488-27.488	24.492	0.004
	74 Benzo(b)fluoranthene	25.378	25.377	25.370	25.371	25.370	25.370	25.363	25.363	22.363-28.363	25.371	0.005
	75 Benzo(k)fluoranthene	25.433	25.424	25.416	25.417	25.416	25.409	25.409	25.409	22.409-28.409	25.418	0.008
	187 Total Benzofluoranthen	25.433	25.424	25.416	25.371	25.416	25.409	25.409	25.409	22.409-28.409	25.411	0.020
	76 Benzo(a)pyrene	26.075	26.066	26.059	26.060	26.059	26.059	26.052	26.052	23.052-29.052	26.061	0.007

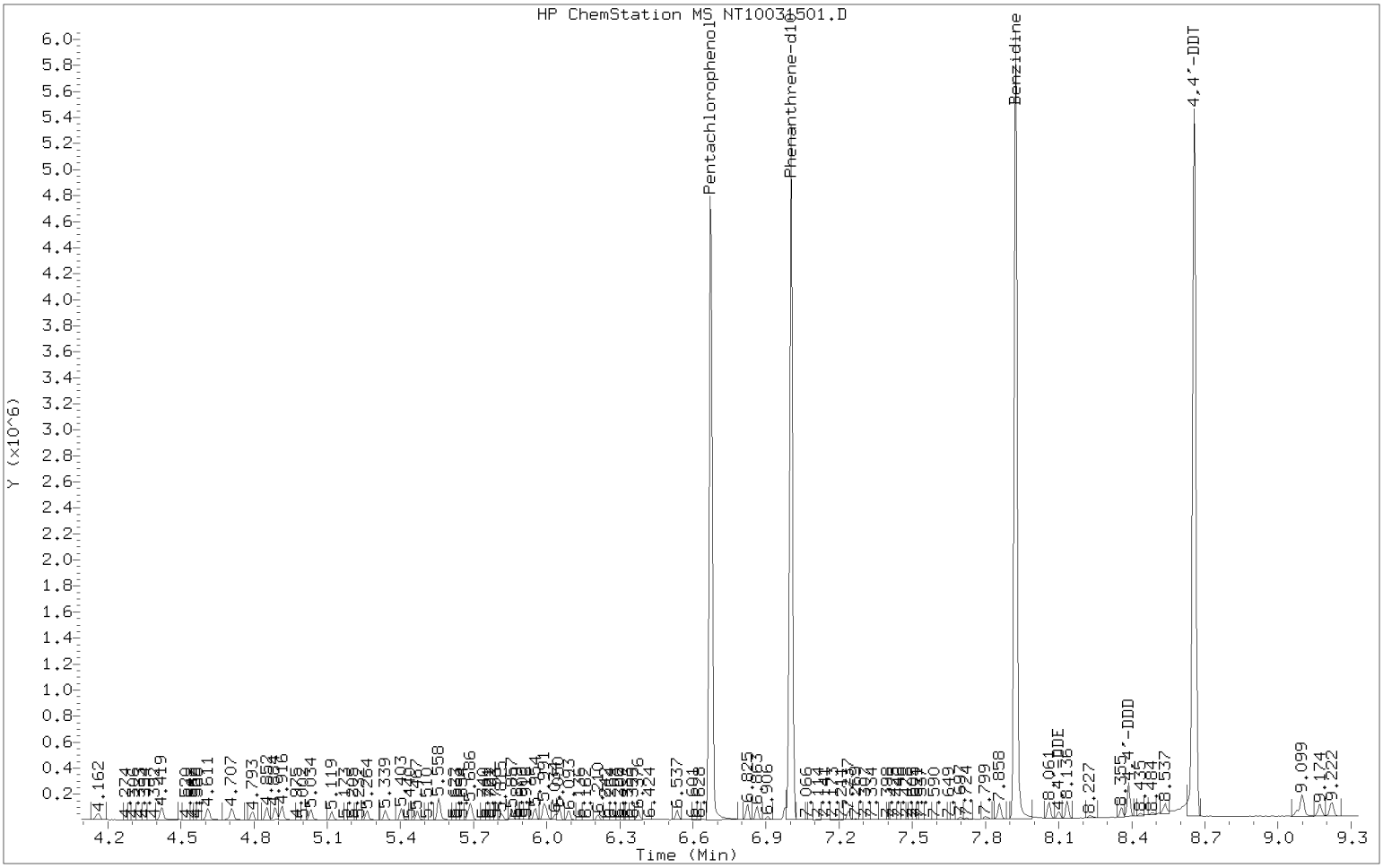
ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

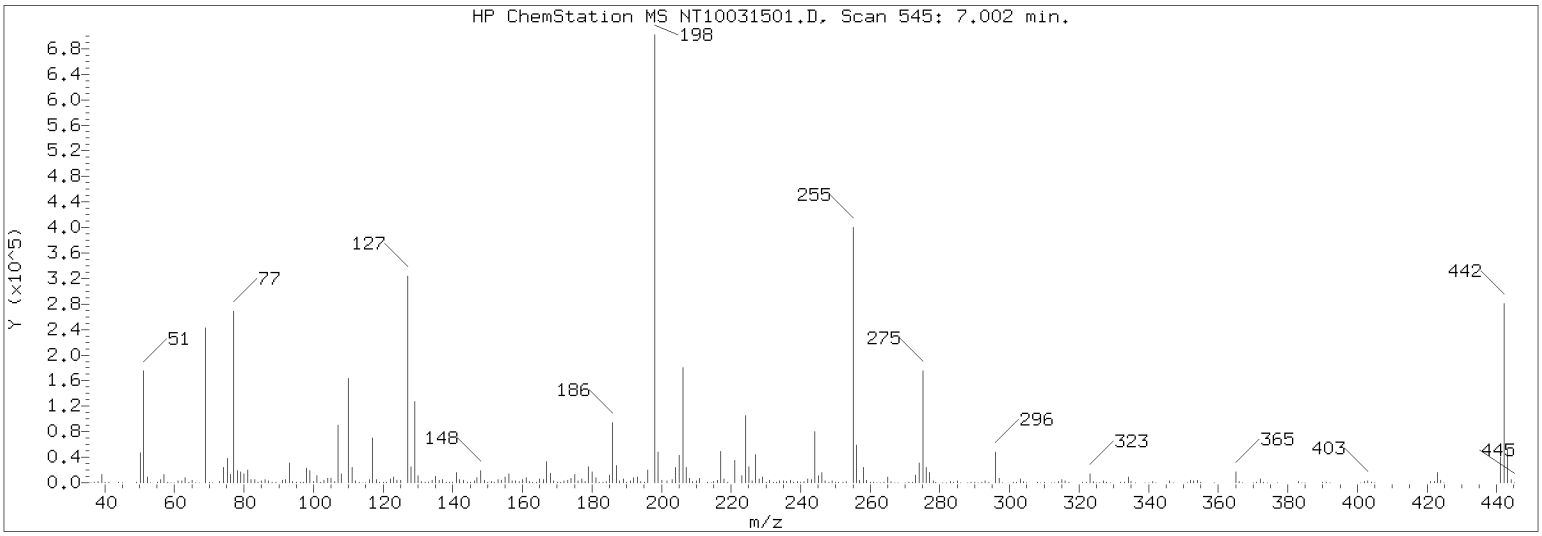
Method File: \\target\share\chem3\nt10.i\20230315.b\ABN.m
Batch File: \\target\share\chem3\nt10.i\20230315.b
Inst ID: nt10.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
*	77 Perylene-d12	26.191	26.183	26.183	26.184	26.183	26.183	26.184	26.184	23.184-29.184	26.184	0.003
	78 Indeno(1,2,3-cd)pyrene	29.037	29.020	29.005	28.998	29.005	28.997	28.990	28.990	25.990-31.990	29.008	0.016
	79 Dibenzo(a,h)anthracene	29.052	29.028	29.021	29.021	29.013	29.013	29.006	29.006	26.006-32.006	29.022	0.015
	80 Benzo(g,h,i)perylene	29.884	29.859	29.836	29.837	29.836	29.828	29.821	29.821	26.821-32.821	29.843	0.021
$	85 p-Cresol-d4	+++++	+++++	+++++	+++++	+++++	+++++	+++++	51.633	48.633-54.633	+++++	+++++
$	86 Anthracene-d10	+++++	+++++	+++++	+++++	+++++	+++++	+++++	63.533	60.533-66.533	+++++	+++++
$	87 Fluoranthene-d10	+++++	+++++	+++++	+++++	+++++	+++++	+++++	60.273	57.273-63.273	+++++	+++++
$	88 Dibenz(a,h)anthracene-	+++++	+++++	+++++	+++++	+++++	+++++	+++++	78.600	75.600-81.600	+++++	+++++
$	89 Diphenyl-d10	+++++	+++++	+++++	+++++	+++++	+++++	+++++	50.841	47.841-53.841	+++++	+++++
	90 N-Nitrosodimethylamine	4.952	4.936	4.928	4.928	4.936	4.936	4.936	4.936	1.936-7.936	4.936	0.008
	91 Aniline	8.768	8.760	8.752	8.753	8.752	8.752	8.753	8.753	5.753-11.753	8.756	0.006
	92 1,2-Diphenylhydrazine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	56.160	53.160-59.160	+++++	+++++
	93 Benzidine	21.074	21.073	21.065	21.066	21.073	21.073	21.066	21.066	18.066-24.066	21.070	0.004
$	95 D10-1-methylnaphthalen	+++++	+++++	+++++	+++++	+++++	+++++	+++++	52.075	49.075-55.075	+++++	+++++
	96 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	49.250	46.250-52.250	+++++	+++++
	97 Caffeine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	61.202	58.202-64.202	+++++	+++++
	98 Retene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	18.787	15.787-21.787	+++++	+++++
	99 Perylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	24.361	21.361-27.361	+++++	+++++
	100 3-beta-Coprostanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	25.411	22.411-28.411	+++++	+++++
	101 Cholesterol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	26.023	23.023-29.023	+++++	+++++
	102 beta-Sitosterol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	79.550	76.550-82.550	+++++	+++++
	103 Pyridine	4.952	4.951	4.951	4.959	4.974	4.982	4.998	4.998	1.998-7.998	4.967	0.018
	188 2,6-Dichlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.874	8.874-14.874	+++++	+++++
	189 N-Nitrosomethylethylam	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.818	2.818-8.818	+++++	+++++

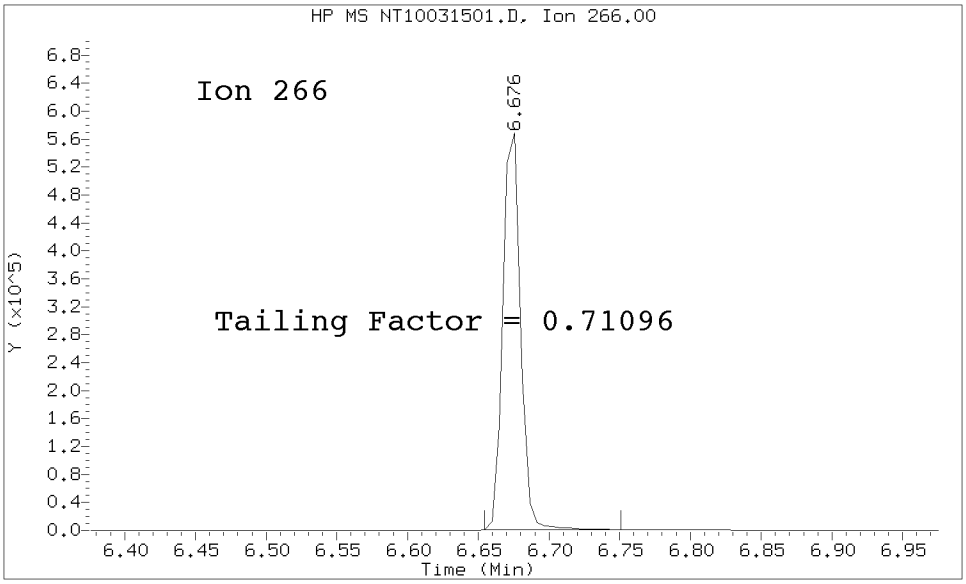
DFTPP TAILING FACTOR AND BREAKDOWN GRAPHIC REPORT

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



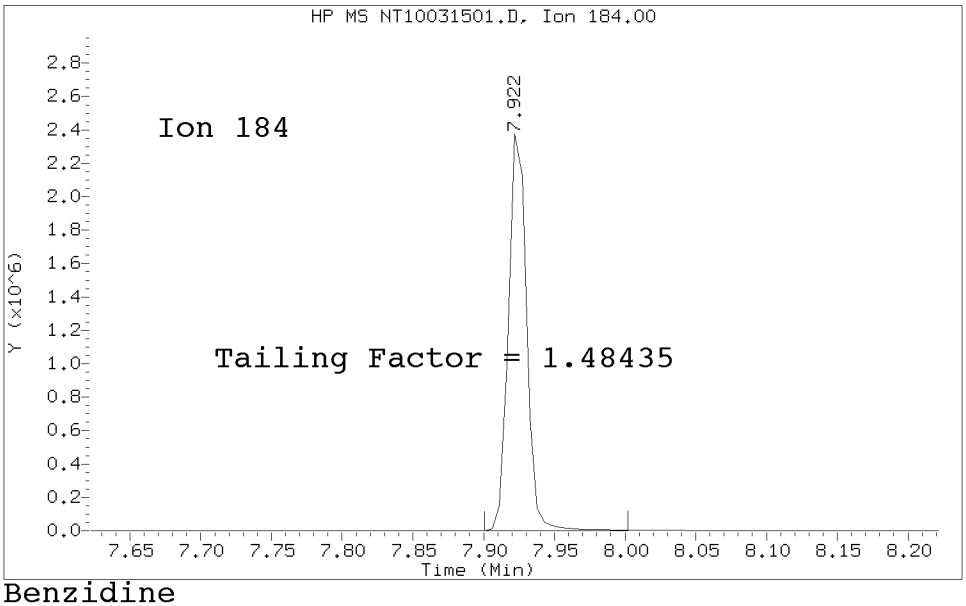


Datafile Analyzed: /20230315.b/NT10031501.D/NT10031501.D
Method Used: \20230315.b\DFTPP8270E.m\sw846ddt.m Inst: nt10
Injection Date: 15-MAR-2023 20:19 Operator: JGR
Sample Info: SEQ-TUN1
Report Date: 03/16/2023 12:23



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

Tail Factor = 0.711 Maximum Allowed = 2.0



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

Tail Factor = 1.484 Maximum Allowed = 2.0

8270 TAILING FACTOR/BREAKDOWN SUMMARY RESULTS

TAILING ANALYSIS SUMMARY

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

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

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

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

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

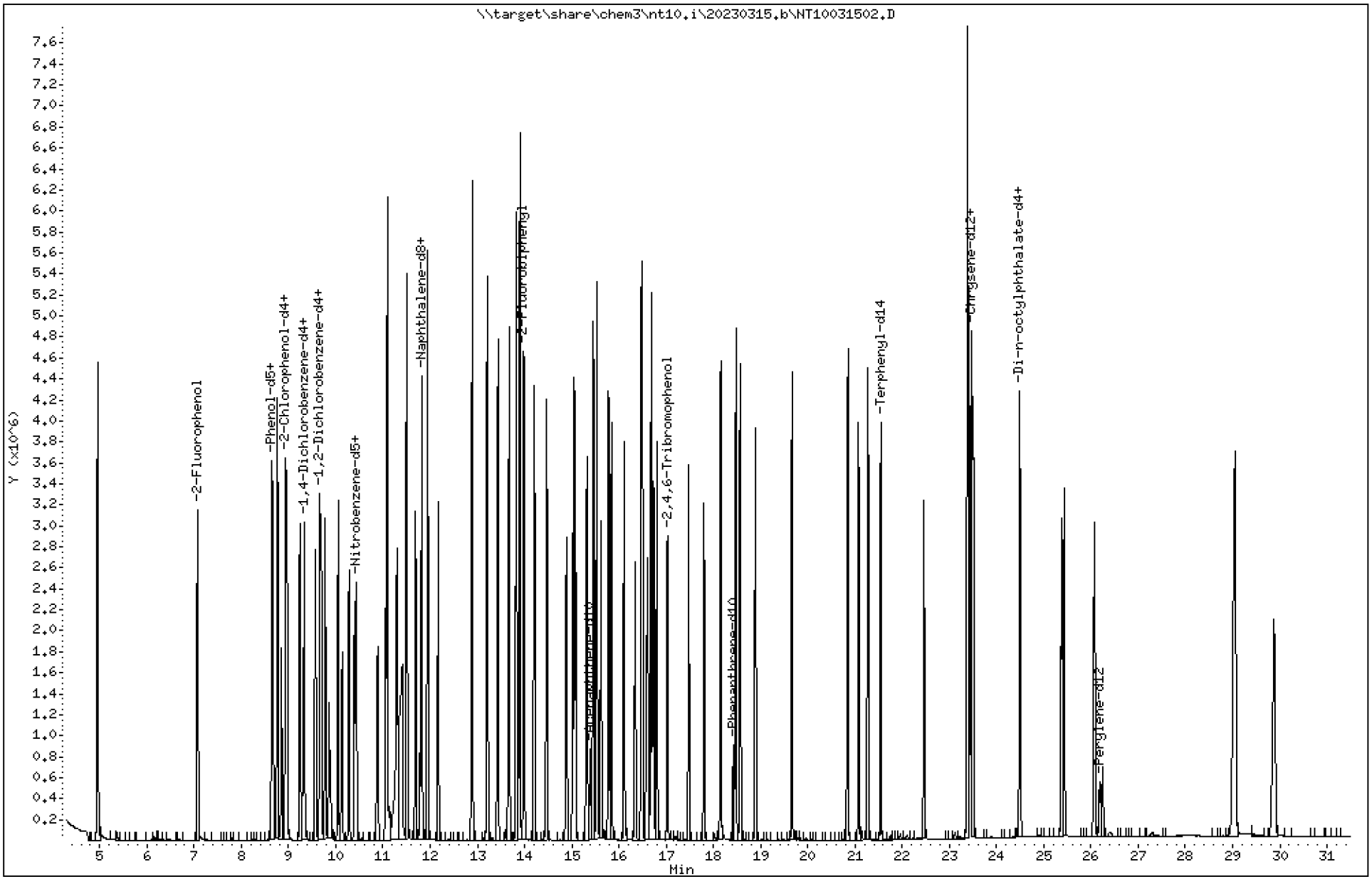
Data File: NT10031501.D
Spectrum: Avg. Scans 544-546 (7.00), Background Scan 536
Location of Maximum: 198.00
Number of points: 316

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

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

Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031502.D
Date : 15-MAR-2023 20:34
Client ID:
Sample Info: SLC0228-CAL7

Instrument: nt10.i
Operator: VTS
Column phase: ZB-5msi
Column diameter: 0.25



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230315.b\NT10031502.D
Lab Smp Id: SLC0228-CAL7
Inj Date : 15-MAR-2023 20:34
Operator : VTS Inst ID: nt10.i
Smp Info : SLC0228-CAL7
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230315.b\ABN.m
Meth Date : 16-Mar-2023 12:06 van Quant Type: ISTD
Cal Date : 16-MAR-2023 00:22 Cal File: NT10031508.D
Als bottle: 2 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
$	1 2-Fluorophenol	112	7.068	7.068	(0.760)	1445745	30.0000	26.95
$	2 Phenol-d5	99	8.652	8.636	(0.930)	2045181	30.0000	29.06
	3 Phenol	94	8.675	8.652	(0.933)	1349012	20.0000	18.45
$	5 2-Chlorophenol-d4	132	8.937	8.930	(0.961)	1771997	30.0000	29.49
	4 Bis(2-Chloroethyl)ether	93	8.845	8.837	(0.951)	997663	20.0000	18.40
	6 2-Chlorophenol	128	8.968	8.961	(0.964)	1276591	20.0000	20.40
	7 1,3-Dichlorobenzene	146	9.239	9.231	(0.993)	1194475	20.0000	18.05
*	8 1,4-Dichlorobenzene-d4	152	9.301	9.293	(1.000)	177375	4.00000	
	9 1,4-Dichlorobenzene	146	9.332	9.325	(1.003)	1189876	20.0000	18.62
$	10 1,2-Dichlorobenzene-d4	152	9.666	9.658	(1.039)	831691	20.0000	19.27
	12 1,2-Dichlorobenzene	146	9.689	9.682	(1.042)	1161461	20.0000	18.46
	11 Benzyl alcohol	108	9.565	9.557	(1.028)	718505	20.0000	20.93
	14 2,2'-oxybis(1-Chloropropane)	121	9.860	9.860	(1.060)	360967	20.0000	19.54
	13 2-Methylphenol	108	9.775	9.767	(1.051)	1038369	20.0000	19.48
	17 Hexachloroethane	117	10.279	10.271	(1.105)	521340	20.0000	19.88
	16 N-Nitroso-di-n-propylamine	70	10.132	10.108	(1.089)	829060	20.0000	19.70
	15 4-Methylphenol	108	10.046	10.031	(1.080)	1116436	20.0000	19.88
$	18 Nitrobenzene-d5	82	10.396	10.388	(0.883)	1307575	20.0000	19.64
	19 Nitrobenzene	77	10.434	10.419	(0.886)	1246701	20.0000	19.08
	20 Isophorone	82	10.884	10.861	(0.924)	1864039	20.0000	22.30
	21 2-Nitrophenol	139	11.056	11.048	(0.939)	649545	20.0000	19.99
	22 2,4-Dimethylphenol	107	11.090	11.082	(0.942)	2235062	40.0000	37.24
	23 Bis(2-Chloroethoxy)methane	93	11.294	11.285	(0.959)	1043843	20.0000	18.69
	24 Benzoic acid	105	11.413	11.166	(0.969)	3461038	80.0000	79.88(M)
	25 2,4-Dichlorophenol	162	11.506	11.489	(0.977)	1900569	40.0000	39.57
	26 1,2,4-Trichlorobenzene	180	11.693	11.685	(0.993)	1014837	20.0000	18.00
*	27 Naphthalene-d8	136	11.778	11.770	(1.000)	659656	4.00000	
	28 Naphthalene	128	11.824	11.816	(1.004)	3233035	20.0000	18.50
	29 4-Chloroaniline	127	11.947	11.940	(1.014)	2735281	40.0000	40.12
	30 Hexachlorobutadiene	225	12.172	12.172	(1.033)	618722	20.0000	18.73
	31 4-Chloro-3-methylphenol	107	12.891	12.876	(1.095)	2087503	40.0000	40.15
	32 2-Methylnaphthalene	142	13.209	13.201	(1.121)	2424558	20.0000	19.23
	33 Hexachlorocyclopentadiene	237	13.673	13.665	(0.889)	1420413	40.0000	43.48

			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
	34	2,4,6-Trichlorophenol	196	13.828	13.820	(0.899)	1462769	40.0000	41.93
	35	2,4,5-Trichlorophenol	196	13.897	13.890	(0.903)	1605152	40.0000	41.41
$	36	2-Fluorobiphenyl	172	13.990	13.975	(0.909)	2614669	20.0000	18.73
	37	2-Chloronaphthalene	162	14.207	14.191	(0.924)	2139935	20.0000	18.93
	38	2-Nitroaniline	65	14.470	14.447	(0.941)	1292686	40.0000	40.70
	39	Dimethylphthalate	163	14.888	14.873	(0.968)	2104599	20.0000	18.35
	40	Acenaphthylene	152	15.074	15.066	(0.980)	3290934	20.0000	18.68
	41	2,6-Dinitrotoluene	165	15.035	15.012	(0.977)	1020135	40.0000	41.18
*	42	Acenaphthene-d10	164	15.383	15.383	(1.000)	352987	4.00000	
	43	3-Nitroaniline	138	15.321	15.298	(0.996)	1147538	40.0000	41.04
	44	Acenaphthene	153	15.453	15.445	(1.005)	2075684	20.0000	19.07
	45	2,4-Dinitrophenol	184	15.538	15.515	(1.010)	1465989	80.0000	79.60
	46	Dibenzofuran	168	15.777	15.770	(1.026)	3017611	20.0000	18.80
	47	4-Nitrophenol	109	15.623	15.592	(1.016)	684596	40.0000	39.90
	48	2,4-Dinitrotoluene	165	15.839	15.817	(1.030)	1405429	40.0000	39.90
	50	Diethylphthalate	149	16.342	16.319	(1.062)	2341062	20.0000	20.81
	49	Fluorene	166	16.489	16.481	(1.072)	2411516	20.0000	19.10
	51	4-Chlorophenyl-phenylether	204	16.473	16.466	(1.071)	1161824	20.0000	19.35
	52	4-Nitroaniline	138	16.604	16.566	(1.079)	1069800	40.0000	42.46
	53	4,6-Dinitro-2-methylphenol	198	16.689	16.658	(0.906)	1560214	80.0000	79.73
	54	N-Nitrosodiphenylamine	169	16.728	16.712	(0.908)	1511403	20.0000	19.24
$	55	2,4,6-Tribromophenol	330	17.028	17.021	(1.107)	477920	30.0000	29.91
	56	4-Bromophenyl-phenylether	248	17.476	17.476	(0.949)	670470	20.0000	20.41
	57	Hexachlorobenzene	284	17.800	17.793	(0.966)	643302	20.0000	18.67
	58	Pentachlorophenol	266	18.157	18.149	(0.986)	885410	40.0000	39.87
*	59	Phenanthrene-d10	188	18.420	18.420	(1.000)	587447	4.00000	
	60	Phenanthrene	178	18.474	18.466	(1.003)	3063430	20.0000	19.12
	61	Anthracene	178	18.567	18.559	(1.008)	3058907	20.0000	19.91
	62	Carbazole	167	18.892	18.884	(1.026)	2606590	20.0000	18.93
	63	Di-n-butylphthalate	149	19.665	19.666	(1.068)	3613228	20.0000	19.93
	64	Fluoranthene	202	20.849	20.841	(0.889)	3084411	20.0000	21.53
	65	Pyrene	202	21.275	21.267	(0.907)	3048380	20.0000	20.75
$	66	Terphenyl-d14	244	21.545	21.538	(0.918)	2146134	20.0000	19.45
	67	Butylbenzylphthalate	149	22.467	22.460	(0.958)	1204454	20.0000	19.98
	68	Benzo(a)anthracene	228	23.427	23.419	(0.999)	2444920	20.0000	19.43
*	69	Chrysene-d12	240	23.458	23.450	(1.000)	356463	4.00000	
	70	3,3'-Dichlorobenzidine	252	23.388	23.373	(0.997)	2692461	60.0000	66.81
	71	Chrysene	228	23.504	23.489	(1.002)	2356995	20.0000	19.17
	72	bis(2-Ethylhexyl)phthalate	149	23.481	23.474	(0.959)	1828785	20.0000	20.00
*	134	Di-n-octylphthalate-d4	153	24.488	24.480	(1.000)	617041	4.00000	
	73	Di-n-octylphthalate	149	24.495	24.488	(1.000)	3023393	20.0000	18.72
	74	Benzo(b)fluoranthene	252	25.378	25.362	(0.969)	2546409	20.0000	19.40
	75	Benzo(k)fluoranthene	252	25.432	25.409	(0.971)	2751549	20.0000	20.64
	76	Benzo(a)pyrene	252	26.075	26.052	(0.996)	2507206	20.0000	21.36
*	77	Perylene-d12	264	26.191	26.183	(1.000)	404994	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	29.036	28.990	(1.109)	3374860	20.0000	22.60
	79	Dibenzo(a,h)anthracene	278	29.052	29.005	(1.109)	2799351	20.0000	22.58
	80	Benzo(g,h,i)perylene	276	29.883	29.821	(1.141)	2974262	20.0000	23.02
	90	N-Nitrosodimethylamine	74	4.951	4.936	(0.532)	1145410	40.0000	33.47
	91	Aniline	93	8.767	8.752	(0.943)	2810605	40.0000	37.51
	93	Benzidine	184	21.073	21.066	(0.898)	2290972	40.0000	38.94
	103	Pyridine	79	4.951	4.997	(0.532)	1775759	40.0000	33.79
	105	1-methylnaphthalene	142	13.433	13.425	(1.141)	2185994	20.0000	18.92
	111	Azobenzene (1,2-DP-Hydrazine)	77	16.805	16.789	(1.092)	2458654	20.0000	19.56

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
187 Total Benzofluoranthenes	252	25.432	25.409	(0.971)	5057487	40.0000	39.90
120 2,3,4,6-Tetrachlorophenol	232	16.110	16.103	(1.047)	832943	20.0000	19.99

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT10031502.D
Lab Smp Id: SLC0228-CAL7
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230315.b\ABN.m
Misc Info:

Calibration Date: 15-MAR-2023
Calibration Time: 21:50
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	171542	85771	343084	177375	3.40
27 Naphthalene-d8	624466	312233	1248932	659656	5.64
42 Acenaphthene-d10	337226	168613	674452	352987	4.67
59 Phenanthrene-d10	572849	286425	1145698	587447	2.55
69 Chrysene-d12	347068	173534	694136	356463	2.71
134 Di-n-octylphthala	500317	250159	1000634	617041	23.33
77 Perylene-d12	421549	210775	843098	404994	-3.93

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.30	8.80	9.80	9.30	0.00
27 Naphthalene-d8	11.78	11.28	12.28	11.78	0.01
42 Acenaphthene-d10	15.38	14.88	15.88	15.38	0.01
59 Phenanthrene-d10	18.42	17.92	18.92	18.42	0.00
69 Chrysene-d12	23.45	22.95	23.95	23.46	0.04
134 Di-n-octylphthala	24.48	23.98	24.98	24.49	0.03
77 Perylene-d12	26.18	25.68	26.68	26.19	0.03

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

REVIEW SUMMARY FOR FILE - NT10031502.D

Lab ID: SLC0228-CAL7
nt10.i, 20230315.b\ABN.m,   15-MAR-2023 20:34

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.969	0.000	0.9690	Benzoic acid
0.532	0.538	-0.0054	Pyridine

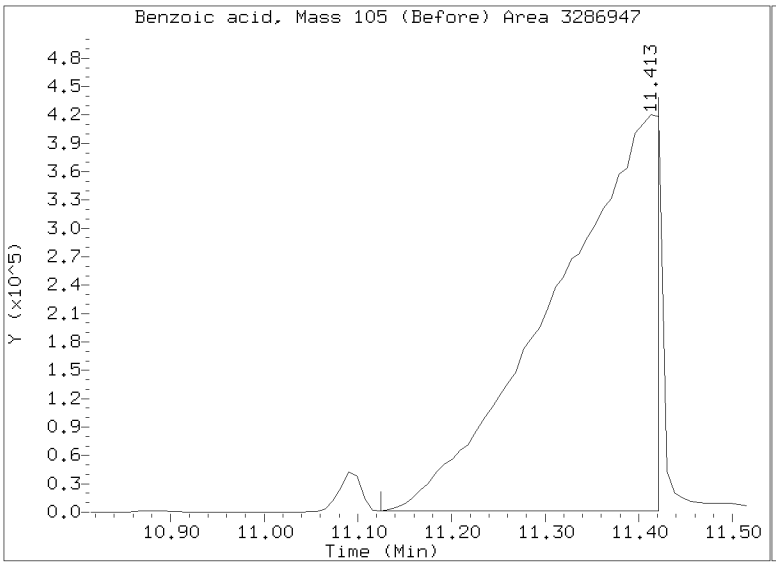
RRT check based on Ccal File: NT10031508.D

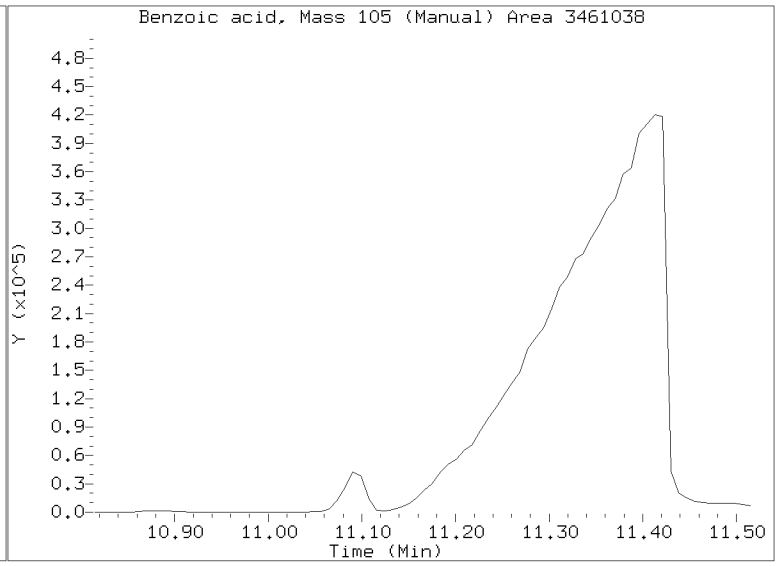
On Column LOD for nt10.i, 20230315.b\ABN.m, ICAL.sub = 0.0000

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230315.b/NT10031502.D
Injection Date: 15-MAR-2023 20:34
Lab ID:SLC0228-CAL7 Client ID:
Report Date: 03/16/2023 12:20





Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031503.D

Date : 15-MAR-2023 21:12

Client ID:

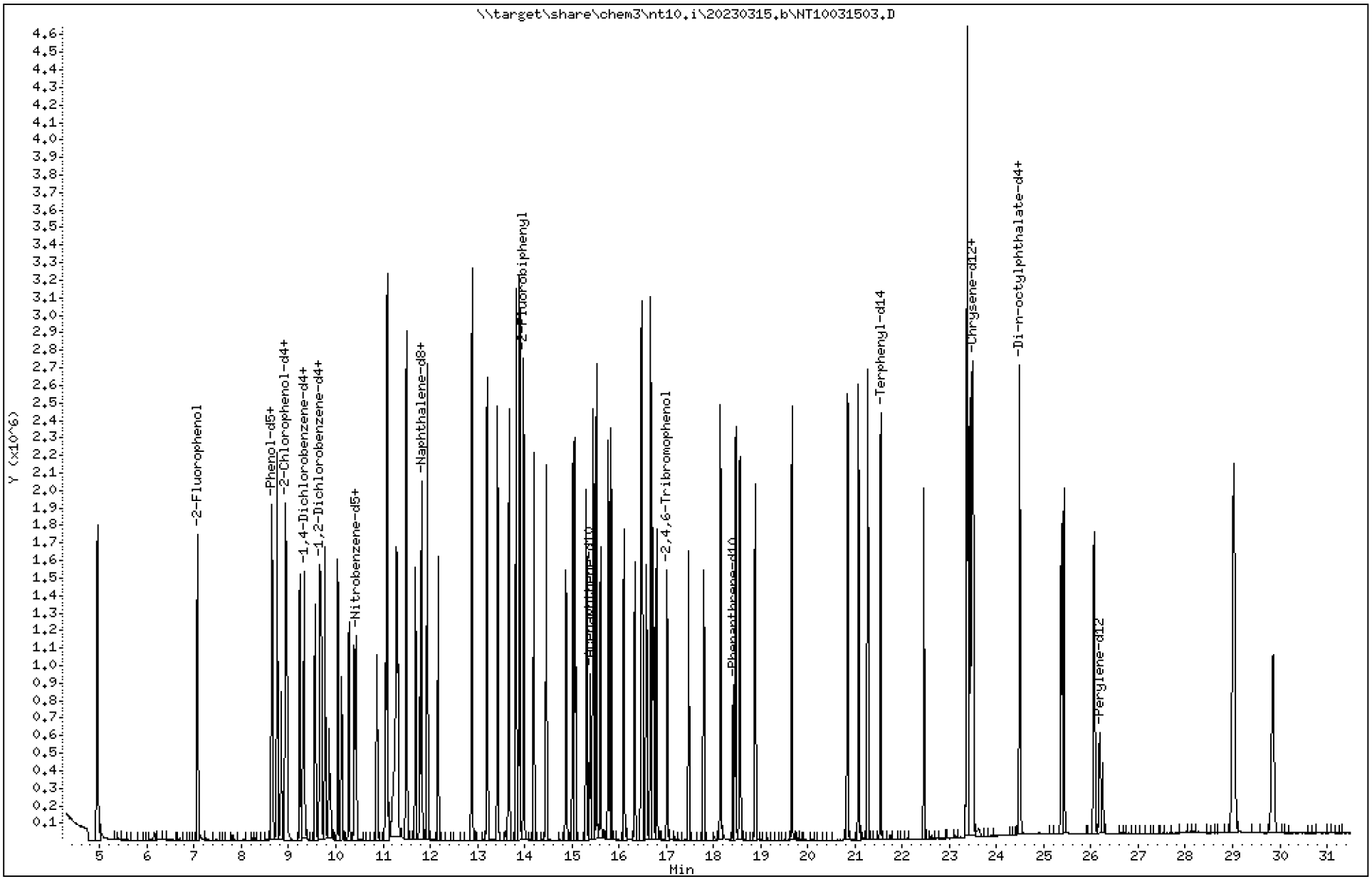
Instrument: nt10.i

Sample Info: SLC0228-CAL6

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230315.b\NT10031503.D
Lab Smp Id: SLC0228-CAL6
Inj Date : 15-MAR-2023 21:12
Operator : VTS Inst ID: nt10.i
Smp Info : SLC0228-CAL6
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230315.b\ABN.m
Meth Date : 16-Mar-2023 12:06 van Quant Type: ISTD
Cal Date : 16-MAR-2023 00:22 Cal File: NT10031508.D
Als bottle: 3 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
$	1 2-Fluorophenol	112	7.067	7.068	(0.760)	766278	15.0000	14.48
$	2 Phenol-d5	99	8.643	8.636	(0.929)	1033842	15.0000	14.89
	3 Phenol	94	8.659	8.652	(0.931)	677387	10.0000	9.390
$	5 2-Chlorophenol-d4	132	8.937	8.930	(0.961)	890713	15.0000	15.03
	4 Bis(2-Chloroethyl)ether	93	8.844	8.837	(0.951)	507177	10.0000	9.479
	6 2-Chlorophenol	128	8.960	8.961	(0.963)	642264	10.0000	10.40
	7 1,3-Dichlorobenzene	146	9.239	9.231	(0.993)	617243	10.0000	9.457
*	8 1,4-Dichlorobenzene-d4	152	9.301	9.293	(1.000)	174984	4.00000	
	9 1,4-Dichlorobenzene	146	9.332	9.325	(1.003)	612971	10.0000	9.721
$	10 1,2-Dichlorobenzene-d4	152	9.658	9.658	(1.038)	417489	10.0000	9.807
	12 1,2-Dichlorobenzene	146	9.689	9.682	(1.042)	593607	10.0000	9.566
	11 Benzyl alcohol	108	9.557	9.557	(1.028)	354873	10.0000	10.48
	14 2,2'-oxybis(1-Chloropropane)	121	9.860	9.860	(1.060)	173870	10.0000	9.541(M)
	13 2-Methylphenol	108	9.774	9.767	(1.051)	516580	10.0000	9.823
	17 Hexachloroethane	117	10.279	10.271	(1.105)	255000	10.0000	9.857
	16 N-Nitroso-di-n-propylamine	70	10.124	10.108	(1.088)	403145	10.0000	9.709
	15 4-Methylphenol	108	10.038	10.031	(1.079)	546873	10.0000	9.870
$	18 Nitrobenzene-d5	82	10.387	10.388	(0.882)	651453	10.0000	10.18
	19 Nitrobenzene	77	10.426	10.419	(0.885)	613375	10.0000	9.768
	20 Isophorone	82	10.868	10.861	(0.923)	899885	10.0000	11.20
	21 2-Nitrophenol	139	11.046	11.048	(0.938)	309860	10.0000	10.04
	22 2,4-Dimethylphenol	107	11.089	11.082	(0.942)	1122389	20.0000	19.46
	23 Bis(2-Chloroethoxy)methane	93	11.284	11.285	(0.958)	510533	10.0000	9.514
	24 Benzoic acid	105	11.327	11.166	(0.962)	1448000	40.0000	40.68
	25 2,4-Dichlorophenol	162	11.496	11.489	(0.976)	957443	20.0000	20.74
	26 1,2,4-Trichlorobenzene	180	11.691	11.685	(0.993)	518573	10.0000	9.571
*	27 Naphthalene-d8	136	11.776	11.770	(1.000)	633941	4.00000	
	28 Naphthalene	128	11.815	11.816	(1.003)	1633246	10.0000	9.725
	29 4-Chloroaniline	127	11.939	11.940	(1.014)	1335407	20.0000	20.38
	30 Hexachlorobutadiene	225	12.170	12.172	(1.033)	314014	10.0000	9.891
	31 4-Chloro-3-methylphenol	107	12.882	12.876	(1.094)	1031139	20.0000	20.64
	32 2-Methylnaphthalene	142	13.207	13.201	(1.122)	1205028	10.0000	9.943
	33 Hexachlorocyclopentadiene	237	13.664	13.665	(0.888)	679471	20.0000	21.34

		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
	34 2,4,6-Trichlorophenol	196	13.819	13.820	(0.898)	735280	20.0000	21.62
	35 2,4,5-Trichlorophenol	196	13.888	13.890	(0.903)	796463	20.0000	21.08
$	36 2-Fluorobiphenyl	172	13.981	13.975	(0.909)	1328400	10.0000	9.760
	37 2-Chloronaphthalene	162	14.198	14.191	(0.923)	1053277	10.0000	9.557
	38 2-Nitroaniline	65	14.453	14.447	(0.940)	639357	20.0000	20.65
	39 Dimethylphthalate	163	14.879	14.873	(0.967)	1083747	10.0000	9.695
	40 Acenaphthylene	152	15.073	15.066	(0.980)	1706988	10.0000	9.940
	41 2,6-Dinitrotoluene	165	15.026	15.012	(0.977)	513157	20.0000	21.25
*	42 Acenaphthene-d10	164	15.382	15.383	(1.000)	344087	4.00000	
	43 3-Nitroaniline	138	15.313	15.298	(0.995)	575069	20.0000	21.10
	44 Acenaphthene	153	15.452	15.445	(1.005)	1037074	10.0000	9.775
	45 2,4-Dinitrophenol	184	15.521	15.515	(1.009)	674586	40.0000	42.18
	46 Dibenzofuran	168	15.776	15.770	(1.026)	1516932	10.0000	9.696
	47 4-Nitrophenol	109	15.606	15.592	(1.015)	346416	20.0000	20.47
	48 2,4-Dinitrotoluene	165	15.830	15.817	(1.029)	723393	20.0000	20.47
	50 Diethylphthalate	149	16.333	16.319	(1.062)	1099214	10.0000	10.02
	49 Fluorene	166	16.487	16.481	(1.072)	1216938	10.0000	9.887
	51 4-Chlorophenyl-phenylether	204	16.472	16.466	(1.071)	578431	10.0000	9.882
	52 4-Nitroaniline	138	16.588	16.566	(1.078)	562336	20.0000	22.89
	53 4,6-Dinitro-2-methylphenol	198	16.673	16.658	(0.905)	794181	40.0000	41.39
	54 N-Nitrosodiphenylamine	169	16.719	16.712	(0.908)	775287	10.0000	9.570
$	55 2,4,6-Tribromophenol	330	17.020	17.021	(1.106)	244599	15.0000	15.42
	56 4-Bromophenyl-phenylether	248	17.474	17.476	(0.949)	352401	10.0000	10.40
	57 Hexachlorobenzene	284	17.799	17.793	(0.966)	339084	10.0000	9.543
	58 Pentachlorophenol	266	18.148	18.149	(0.985)	452371	20.0000	20.65
*	59 Phenanthrene-d10	188	18.418	18.420	(1.000)	605930	4.00000	
	60 Phenanthrene	178	18.473	18.466	(1.003)	1596045	10.0000	9.660
	61 Anthracene	178	18.565	18.559	(1.008)	1637517	10.0000	10.33
	62 Carbazole	167	18.883	18.884	(1.025)	1441624	10.0000	10.15
	63 Di-n-butylphthalate	149	19.664	19.666	(1.068)	1947970	10.0000	10.31
	64 Fluoranthene	202	20.840	20.841	(0.888)	1783287	10.0000	10.15
	65 Pyrene	202	21.266	21.267	(0.907)	1822698	10.0000	10.12
$	66 Terphenyl-d14	244	21.544	21.538	(0.918)	1323270	10.0000	9.780
	67 Butylbenzylphthalate	149	22.458	22.460	(0.957)	684422	10.0000	10.10
	68 Benzo(a)anthracene	228	23.426	23.419	(0.999)	1518143	10.0000	9.840
*	69 Chrysene-d12	240	23.457	23.450	(1.000)	437116	4.00000	
	70 3,3'-Dichlorobenzidine	252	23.379	23.373	(0.997)	1519096	30.0000	30.74
	71 Chrysene	228	23.503	23.489	(1.002)	1487493	10.0000	9.868
	72 bis(2-Ethylhexyl)phthalate	149	23.480	23.474	(0.959)	994125	10.0000	10.02
*	134 Di-n-octylphthalate-d4	153	24.479	24.480	(1.000)	674085	4.00000	
	73 Di-n-octylphthalate	149	24.494	24.488	(1.001)	1707970	10.0000	9.682
	74 Benzo(b)fluoranthene	252	25.377	25.362	(0.969)	1615210	10.0000	10.75
	75 Benzo(k)fluoranthene	252	25.423	25.409	(0.971)	1513928	10.0000	9.925
	76 Benzo(a)pyrene	252	26.066	26.052	(0.996)	1429031	10.0000	10.64
*	77 Perylene-d12	264	26.182	26.183	(1.000)	463440	4.00000	
	78 Indeno(1,2,3-cd)pyrene	276	29.020	28.990	(1.108)	1834722	10.0000	10.74
	79 Dibenzo(a,h)anthracene	278	29.027	29.005	(1.109)	1513126	10.0000	10.67
	80 Benzo(g,h,i)perylene	276	29.859	29.821	(1.140)	1583026	10.0000	10.71
	90 N-Nitrosodimethylamine	74	4.935	4.936	(0.531)	623452	20.0000	18.47
	91 Aniline	93	8.759	8.752	(0.942)	1394783	20.0000	18.87
	93 Benzidine	184	21.072	21.066	(0.898)	1529058	20.0000	21.19
	103 Pyridine	79	4.951	4.997	(0.532)	925439	20.0000	17.85
	105 1-methylnaphthalene	142	13.432	13.425	(1.141)	1103224	10.0000	9.935
	111 Azobenzene (1,2-DP-Hydrazine)	77	16.796	16.789	(1.092)	1203614	10.0000	9.825

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
187 Total Benzofluoranthenes	252	25.423	25.409	(0.971)	2985651	20.0000	20.58
120 2,3,4,6-Tetrachlorophenol	232	16.101	16.103	(1.047)	374893	10.0000	10.09

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT10031503.D
Lab Smp Id: SLC0228-CAL6
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230315.b\ABN.m
Misc Info:

Calibration Date: 15-MAR-2023
Calibration Time: 21:50
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	171542	85771	343084	174984	2.01
27 Naphthalene-d8	624466	312233	1248932	633941	1.52
42 Acenaphthene-d10	337226	168613	674452	344087	2.03
59 Phenanthrene-d10	572849	286425	1145698	605930	5.77
69 Chrysene-d12	347068	173534	694136	437116	25.95
134 Di-n-octylphthala	500317	250159	1000634	674085	34.73
77 Perylene-d12	421549	210775	843098	463440	9.94

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.30	8.80	9.80	9.30	-0.00
27 Naphthalene-d8	11.78	11.28	12.28	11.78	-0.00
42 Acenaphthene-d10	15.38	14.88	15.88	15.38	-0.00
59 Phenanthrene-d10	18.42	17.92	18.92	18.42	-0.00
69 Chrysene-d12	23.45	22.95	23.95	23.46	0.03
134 Di-n-octylphthala	24.48	23.98	24.98	24.48	-0.00
77 Perylene-d12	26.18	25.68	26.68	26.18	-0.00

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

REVIEW SUMMARY FOR FILE - NT10031503.D

Lab ID: SLC0228-CAL6
nt10.i, 20230315.b\ABN.m,   15-MAR-2023 21:12

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.962	0.000	0.9618	Benzoic acid
0.532	0.538	-0.0054	Pyridine

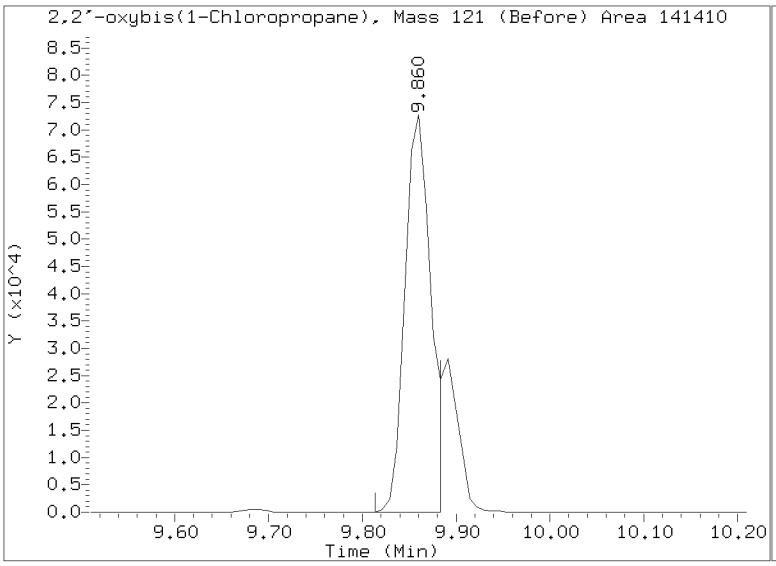
RRT check based on Ccal File: NT10031508.D

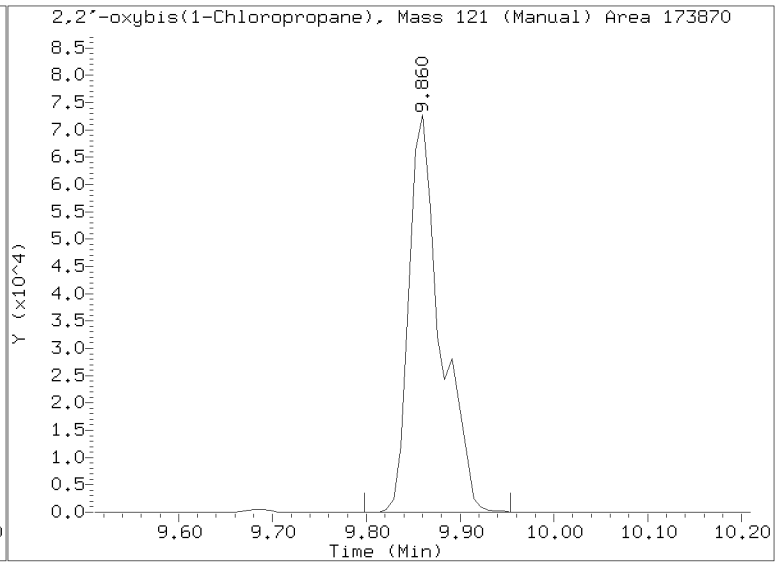
On Column LOD for nt10.i, 20230315.b\ABN.m, ICAL.sub = 0.0000

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

Quant Ion Manual Peak Adjustment Report

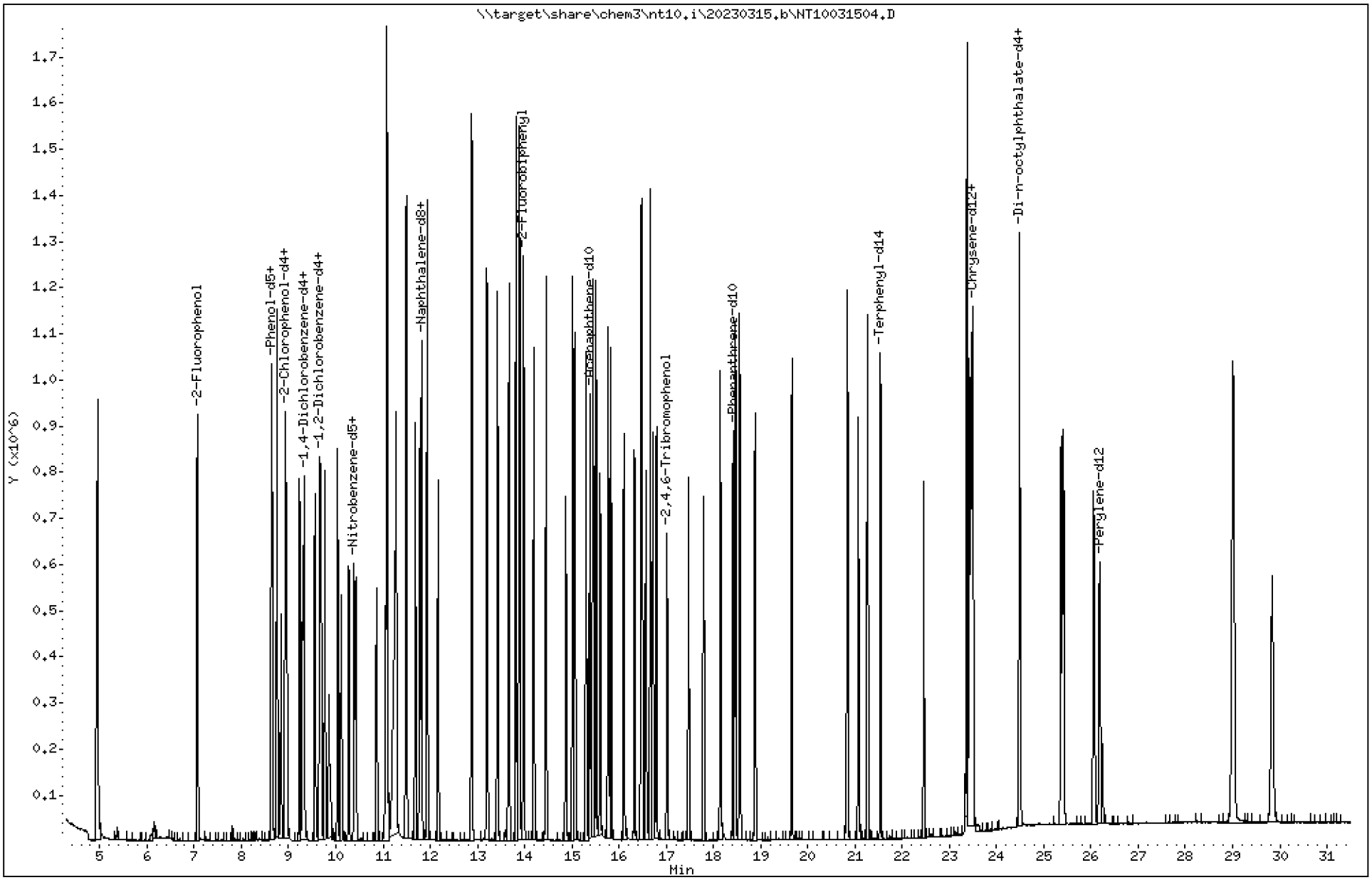
Datafile: //target/share/chem3/nt10.i/20230315.b/NT10031503.D
Injection Date: 15-MAR-2023 21:12
Lab ID:SLC0228-CAL6 Client ID:
Report Date: 03/16/2023 12:20





Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031504.D
Date : 15-MAR-2023 21:50
Client ID:
Sample Info: SLC0228-CAL5

Instrument: nt10.i
Operator: VTS
Column phase: ZB-5msi
Column diameter: 0.25



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230315.b\NT10031504.D
Lab Smp Id: SLC0228-CAL5
Inj Date : 15-MAR-2023 21:50
Operator : VTS Inst ID: nt10.i
Smp Info : SLC0228-CAL5
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230315.b\ABN.m
Meth Date : 16-Mar-2023 12:06 van Quant Type: ISTD
Cal Date : 16-MAR-2023 00:22 Cal File: NT10031508.D
Als bottle: 4 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
$	1 2-Fluorophenol	112	7.068	7.068	(0.760)	389299	7.50000	7.504
$	2 Phenol-d5	99	8.636	8.636	(0.928)	517751	7.50000	7.608
	3 Phenol	94	8.659	8.652	(0.931)	348755	5.00000	4.932
$	5 2-Chlorophenol-d4	132	8.930	8.930	(0.960)	442224	7.50000	7.610
	4 Bis(2-Chloroethyl)ether	93	8.837	8.837	(0.950)	257735	5.00000	4.914
	6 2-Chlorophenol	128	8.960	8.961	(0.963)	295042	5.00000	4.875
	7 1,3-Dichlorobenzene	146	9.231	9.231	(0.992)	308253	5.00000	4.817
*	8 1,4-Dichlorobenzene-d4	152	9.301	9.293	(1.000)	171542	4.00000	
	9 1,4-Dichlorobenzene	146	9.324	9.325	(1.002)	302437	5.00000	4.893
$	10 1,2-Dichlorobenzene-d4	152	9.658	9.658	(1.038)	203496	5.00000	4.876
	12 1,2-Dichlorobenzene	146	9.681	9.682	(1.041)	295133	5.00000	4.851
	11 Benzyl alcohol	108	9.557	9.557	(1.028)	175758	5.00000	5.295
	14 2,2'-oxybis(1-Chloropropane)	121	9.860	9.860	(1.060)	84897	5.00000	4.752(M)
	13 2-Methylphenol	108	9.775	9.767	(1.051)	259972	5.00000	5.043
	17 Hexachloroethane	117	10.271	10.271	(1.104)	125853	5.00000	4.962
	16 N-Nitroso-di-n-propylamine	70	10.116	10.108	(1.088)	207311	5.00000	5.093
	15 4-Methylphenol	108	10.038	10.031	(1.079)	275961	5.00000	5.080
$	18 Nitrobenzene-d5	82	10.388	10.388	(0.882)	326832	5.00000	5.185
	19 Nitrobenzene	77	10.426	10.419	(0.885)	310914	5.00000	5.026
	20 Isophorone	82	10.861	10.861	(0.922)	396361	5.00000	5.009
	21 2-Nitrophenol	139	11.047	11.048	(0.938)	152976	5.00000	5.059
	22 2,4-Dimethylphenol	107	11.081	11.082	(0.941)	561764	10.0000	9.887
	23 Bis(2-Chloroethoxy)methane	93	11.284	11.285	(0.958)	255208	5.00000	4.828
	24 Benzoic acid	105	11.276	11.166	(0.957)	660270	20.0000	19.96
	25 2,4-Dichlorophenol	162	11.497	11.489	(0.976)	475467	10.0000	10.46
	26 1,2,4-Trichlorobenzene	180	11.684	11.685	(0.992)	258021	5.00000	4.835
*	27 Naphthalene-d8	136	11.777	11.770	(1.000)	624466	4.00000	
	28 Naphthalene	128	11.815	11.816	(1.003)	811352	5.00000	4.904
	29 4-Chloroaniline	127	11.939	11.940	(1.014)	663111	10.0000	10.27
	30 Hexachlorobutadiene	225	12.171	12.172	(1.033)	152701	5.00000	4.883
	31 4-Chloro-3-methylphenol	107	12.875	12.876	(1.093)	507195	10.0000	10.30
	32 2-Methylnaphthalene	142	13.200	13.201	(1.121)	601081	5.00000	5.035
	33 Hexachlorocyclopentadiene	237	13.664	13.665	(0.888)	324634	10.0000	10.40

			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
	34	2,4,6-Trichlorophenol	196	13.819	13.820	(0.898)	343842	10.0000	10.32
	35	2,4,5-Trichlorophenol	196	13.889	13.890	(0.903)	380542	10.0000	10.28
$	36	2-Fluorobiphenyl	172	13.982	13.975	(0.909)	654752	5.00000	4.908
	37	2-Chloronaphthalene	162	14.198	14.191	(0.923)	530286	5.00000	4.909
	38	2-Nitroaniline	65	14.454	14.447	(0.940)	319171	10.0000	10.52
	39	Dimethylphthalate	163	14.879	14.873	(0.967)	534213	5.00000	4.876
	40	Acenaphthylene	152	15.065	15.066	(0.979)	830053	5.00000	4.932
	41	2,6-Dinitrotoluene	165	15.019	15.012	(0.976)	246779	10.0000	10.43
*	42	Acenaphthene-d10	164	15.382	15.383	(1.000)	337226	4.00000	
	43	3-Nitroaniline	138	15.305	15.298	(0.995)	273315	10.0000	10.23
	44	Acenaphthene	153	15.444	15.445	(1.004)	504323	5.00000	4.850
	45	2,4-Dinitrophenol	184	15.514	15.515	(1.009)	266923	20.0000	18.02
	46	Dibenzofuran	168	15.769	15.770	(1.025)	756537	5.00000	4.934
	47	4-Nitrophenol	109	15.599	15.592	(1.014)	160601	10.0000	9.617
	48	2,4-Dinitrotoluene	165	15.823	15.817	(1.029)	337620	10.0000	9.579
	50	Diethylphthalate	149	16.326	16.319	(1.061)	526014	5.00000	4.894
	49	Fluorene	166	16.488	16.481	(1.072)	590490	5.00000	4.895
	51	4-Chlorophenyl-phenylether	204	16.465	16.466	(1.070)	281249	5.00000	4.903
	52	4-Nitroaniline	138	16.573	16.566	(1.077)	246501	10.0000	10.24
	53	4,6-Dinitro-2-methylphenol	198	16.665	16.658	(0.905)	335578	20.0000	18.99
	54	N-Nitrosodiphenylamine	169	16.719	16.712	(0.908)	371008	5.00000	4.844
$	55	2,4,6-Tribromophenol	330	17.020	17.021	(1.106)	112412	7.50000	7.152
	56	4-Bromophenyl-phenylether	248	17.475	17.476	(0.949)	165732	5.00000	5.173
	57	Hexachlorobenzene	284	17.792	17.793	(0.966)	162915	5.00000	4.850
	58	Pentachlorophenol	266	18.148	18.149	(0.985)	191672	10.0000	9.471
*	59	Phenanthrene-d10	188	18.419	18.420	(1.000)	572849	4.00000	
	60	Phenanthrene	178	18.465	18.466	(1.003)	753291	5.00000	4.822
	61	Anthracene	178	18.558	18.559	(1.008)	753981	5.00000	5.032
	62	Carbazole	167	18.883	18.884	(1.025)	643836	5.00000	4.795
	63	Di-n-butylphthalate	149	19.664	19.666	(1.068)	843782	5.00000	4.697
	64	Fluoranthene	202	20.840	20.841	(0.889)	758837	5.00000	5.441
	65	Pyrene	202	21.266	21.267	(0.907)	754525	5.00000	5.274
$	66	Terphenyl-d14	244	21.537	21.538	(0.918)	546879	5.00000	5.090
	67	Butylbenzylphthalate	149	22.458	22.460	(0.958)	257731	5.00000	4.972
	68	Benzo(a)anthracene	228	23.418	23.419	(0.999)	612627	5.00000	5.001
*	69	Chrysene-d12	240	23.449	23.450	(1.000)	347068	4.00000	
	70	3,3'-Dichlorobenzidine	252	23.372	23.373	(0.997)	532591	15.0000	13.57
	71	Chrysene	228	23.496	23.489	(1.002)	596175	5.00000	4.981
	72	bis(2-Ethylhexyl)phthalate	149	23.473	23.474	(0.959)	367877	5.00000	5.011
*	134	Di-n-octylphthalate-d4	153	24.479	24.480	(1.000)	500317	4.00000	
	73	Di-n-octylphthalate	149	24.495	24.488	(1.001)	642200	5.00000	4.905
	74	Benzo(b)fluoranthene	252	25.369	25.362	(0.969)	700635	5.00000	5.127(H)
	75	Benzo(k)fluoranthene	252	25.416	25.409	(0.971)	673988	5.00000	4.857
	76	Benzo(a)pyrene	252	26.058	26.052	(0.995)	635688	5.00000	5.203
*	77	Perylene-d12	264	26.182	26.183	(1.000)	421549	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	29.004	28.990	(1.108)	858348	5.00000	5.522
	79	Dibenzo(a,h)anthracene	278	29.020	29.005	(1.108)	711419	5.00000	5.513
	80	Benzo(g,h,i)perylene	276	29.836	29.821	(1.140)	752407	5.00000	5.594
	90	N-Nitrosodimethylamine	74	4.928	4.936	(0.530)	330376	10.0000	9.982
	91	Aniline	93	8.752	8.752	(0.941)	716385	10.0000	9.886
	93	Benzidine	184	21.065	21.066	(0.898)	565285	10.0000	9.868
	103	Pyridine	79	4.951	4.997	(0.532)	520909	10.0000	10.25
	105	1-methylnaphthalene	142	13.432	13.425	(1.141)	551037	5.00000	5.038
	111	Azobenzene (1,2-DP-Hydrazine)	77	16.796	16.789	(1.092)	603260	5.00000	5.024

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
187 Total Benzofluoranthenes	252	25.416	25.409	(0.971)	1318971	10.0000	9.997
120 2,3,4,6-Tetrachlorophenol	232	16.101	16.103	(1.047)	169344	5.00000	4.836

QC Flag Legend

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

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT10031504.D
Lab Smp Id: SLC0228-CAL5
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230315.b\ABN.m
Misc Info:

Calibration Date: 15-MAR-2023
Calibration Time: 21:50
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	171542	85771	343084	171542	0.00
27 Naphthalene-d8	624466	312233	1248932	624466	0.00
42 Acenaphthene-d10	337226	168613	674452	337226	0.00
59 Phenanthrene-d10	572849	286425	1145698	572849	0.00
69 Chrysene-d12	347068	173534	694136	347068	0.00
134 Di-n-octylphthala	500317	250159	1000634	500317	0.00
77 Perylene-d12	421549	210775	843098	421549	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.30	8.80	9.80	9.30	0.00
27 Naphthalene-d8	11.78	11.28	12.28	11.78	0.00
42 Acenaphthene-d10	15.38	14.88	15.88	15.38	0.00
59 Phenanthrene-d10	18.42	17.92	18.92	18.42	0.00
69 Chrysene-d12	23.45	22.95	23.95	23.45	0.00
134 Di-n-octylphthala	24.48	23.98	24.98	24.48	0.00
77 Perylene-d12	26.18	25.68	26.68	26.18	0.00

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

REVIEW SUMMARY FOR FILE - NT10031504.D

Lab ID: SLC0228-CAL5
nt10.i, 20230315.b\ABN.m,   15-MAR-2023 21:50

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.957	0.000	0.9575	Benzoic acid
0.532	0.538	-0.0054	Pyridine

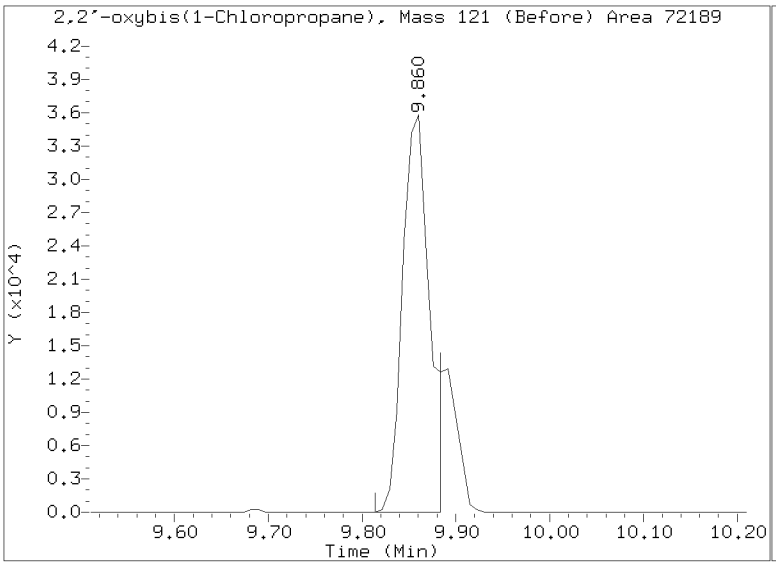
RRT check based on Ccal File: NT10031508.D

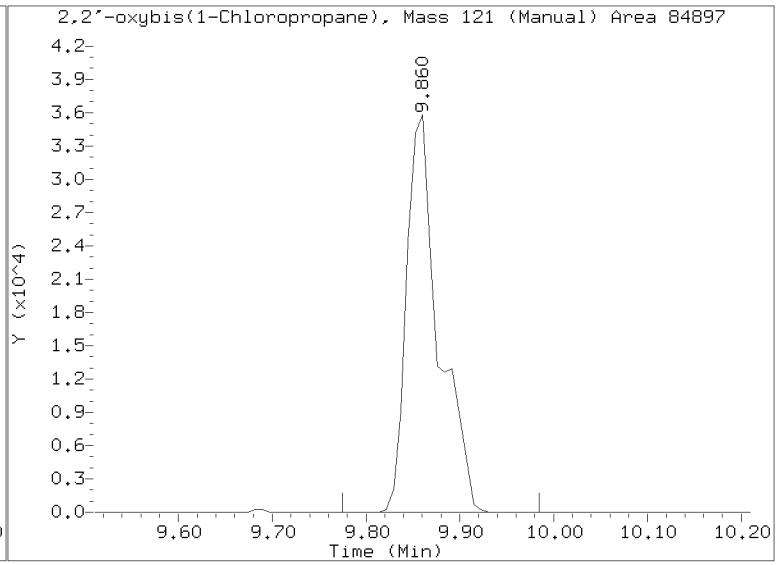
On Column LOD for nt10.i, 20230315.b\ABN.m, ICAL.sub = 0.0000

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230315.b/NT10031504.D
Injection Date: 15-MAR-2023 21:50
Lab ID:SLC0228-CAL5 Client ID:
Report Date: 03/16/2023 12:20





Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031505.D

Page 1

Date : 15-MAR-2023 22:28

Client ID:

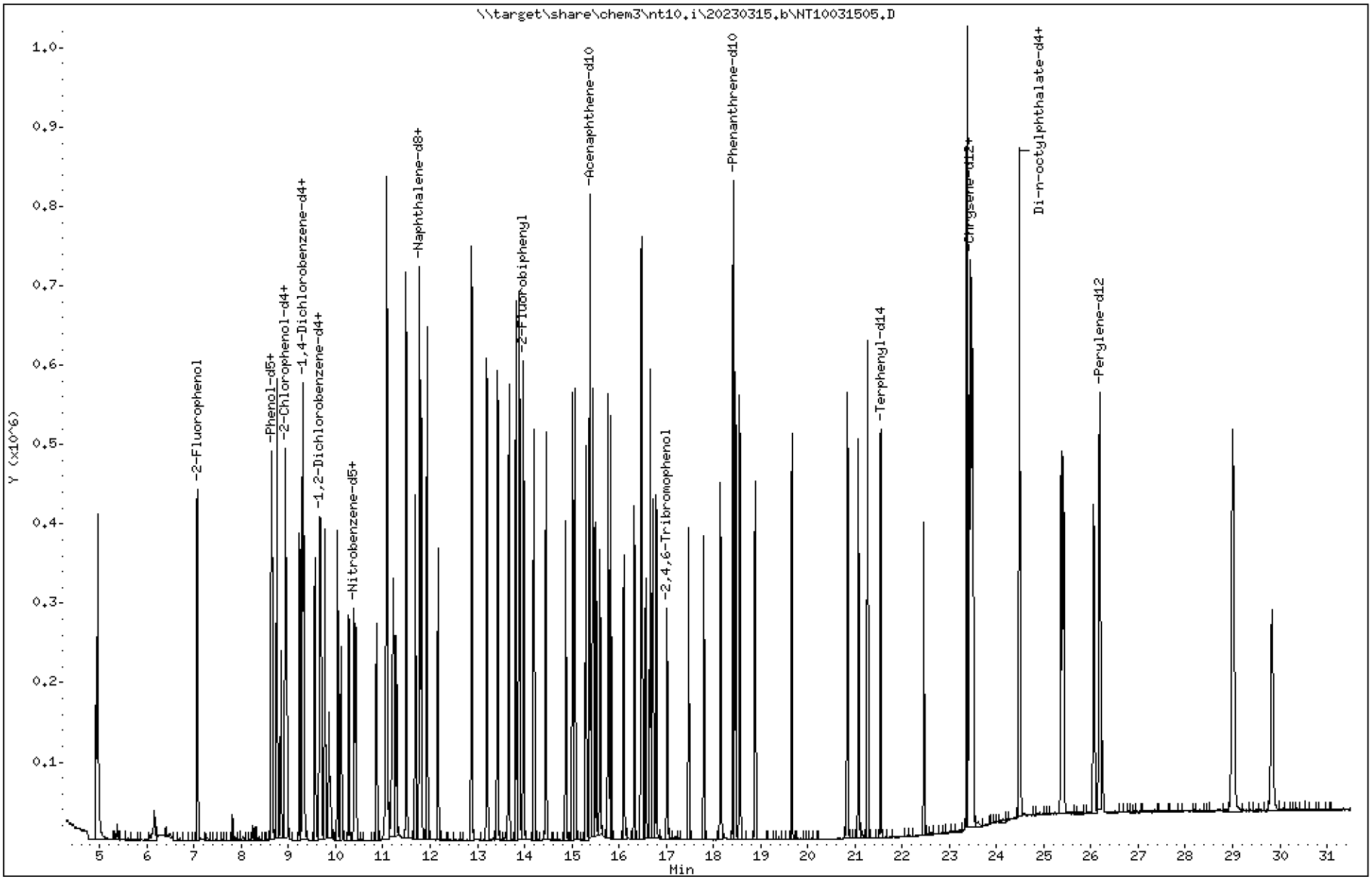
Instrument: nt10.i

Sample Info: SLC0228-CAL4

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230315.b\NT10031505.D
Lab Smp Id: SLC0228-CAL4
Inj Date : 15-MAR-2023 22:28
Operator : VTS Inst ID: nt10.i
Smp Info : SLC0228-CAL4
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230315.b\ABN.m
Meth Date : 16-Mar-2023 12:06 van Quant Type: ISTD
Cal Date : 16-MAR-2023 00:22 Cal File: NT10031508.D
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
$	1 2-Fluorophenol	112	7.068	7.068	(0.760)	193847	3.75000	4.042
$	2 Phenol-d5	99	8.628	8.636	(0.928)	251443	3.75000	3.997
	3 Phenol	94	8.659	8.652	(0.931)	172616	2.50000	2.641
$	5 2-Chlorophenol-d4	132	8.930	8.930	(0.960)	211122	3.75000	3.930
	4 Bis(2-Chloroethyl)ether	93	8.837	8.837	(0.950)	126678	2.50000	2.613
	6 2-Chlorophenol	128	8.961	8.961	(0.963)	142338	2.50000	2.544
	7 1,3-Dichlorobenzene	146	9.231	9.231	(0.992)	152662	2.50000	2.581
*	8 1,4-Dichlorobenzene-d4	152	9.301	9.293	(1.000)	158570	4.00000	
	9 1,4-Dichlorobenzene	146	9.325	9.325	(1.002)	145660	2.50000	2.549
$	10 1,2-Dichlorobenzene-d4	152	9.658	9.658	(1.038)	101442	2.50000	2.630
	12 1,2-Dichlorobenzene	146	9.682	9.682	(1.041)	145355	2.50000	2.585
	11 Benzyl alcohol	108	9.557	9.557	(1.028)	83433	2.50000	2.719
	14 2,2'-oxybis(1-Chloropropane)	121	9.860	9.860	(1.060)	41898	2.50000	2.537(M)
	13 2-Methylphenol	108	9.775	9.767	(1.051)	126793	2.50000	2.661
	17 Hexachloroethane	117	10.271	10.271	(1.104)	60297	2.50000	2.572
	16 N-Nitroso-di-n-propylamine	70	10.116	10.108	(1.088)	99798	2.50000	2.652
	15 4-Methylphenol	108	10.031	10.031	(1.078)	136212	2.50000	2.713
$	18 Nitrobenzene-d5	82	10.388	10.388	(0.882)	155018	2.50000	2.638
	19 Nitrobenzene	77	10.419	10.419	(0.885)	150373	2.50000	2.608
	20 Isophorone	82	10.861	10.861	(0.922)	188366	2.50000	2.554
	21 2-Nitrophenol	139	11.048	11.048	(0.938)	67668	2.50000	2.408
	22 2,4-Dimethylphenol	107	11.082	11.082	(0.941)	275973	5.00000	5.211
	23 Bis(2-Chloroethoxy)methane	93	11.285	11.285	(0.958)	128878	2.50000	2.616
	24 Benzoic acid	105	11.226	11.166	(0.953)	255448	10.0000	8.521
	25 2,4-Dichlorophenol	162	11.489	11.489	(0.975)	248784	5.00000	5.870
	26 1,2,4-Trichlorobenzene	180	11.685	11.685	(0.992)	126241	2.50000	2.538
*	27 Naphthalene-d8	136	11.778	11.770	(1.000)	582079	4.00000	
	28 Naphthalene	128	11.816	11.816	(1.003)	394779	2.50000	2.560
	29 4-Chloroaniline	127	11.940	11.940	(1.014)	311237	5.00000	5.174
	30 Hexachlorobutadiene	225	12.172	12.172	(1.033)	73952	2.50000	2.537
	31 4-Chloro-3-methylphenol	107	12.876	12.876	(1.093)	235798	5.00000	5.140
	32 2-Methylnaphthalene	142	13.201	13.201	(1.121)	287604	2.50000	2.584
	33 Hexachlorocyclopentadiene	237	13.665	13.665	(0.888)	146958	5.00000	5.177

			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
	34	2,4,6-Trichlorophenol	196	13.820	13.820	(0.898)	156867	5.00000	5.174
	35	2,4,5-Trichlorophenol	196	13.890	13.890	(0.903)	175400	5.00000	5.207
$	36	2-Fluorobiphenyl	172	13.983	13.975	(0.909)	311690	2.50000	2.569
	37	2-Chloronaphthalene	162	14.199	14.191	(0.923)	255513	2.50000	2.601
	38	2-Nitroaniline	65	14.447	14.447	(0.939)	147440	5.00000	5.343
	39	Dimethylphthalate	163	14.873	14.873	(0.967)	256501	2.50000	2.574
	40	Acenaphthylene	152	15.066	15.066	(0.979)	402926	2.50000	2.632
	41	2,6-Dinitrotoluene	165	15.020	15.012	(0.976)	112979	5.00000	5.249
*	42	Acenaphthene-d10	164	15.383	15.383	(1.000)	306729	4.00000	
	43	3-Nitroaniline	138	15.298	15.298	(0.994)	127560	5.00000	5.250
	44	Acenaphthene	153	15.445	15.445	(1.004)	240853	2.50000	2.547
	45	2,4-Dinitrophenol	184	15.515	15.515	(1.009)	95470	10.0000	7.246
	46	Dibenzofuran	168	15.770	15.770	(1.025)	362747	2.50000	2.601
	47	4-Nitrophenol	109	15.600	15.592	(1.014)	72524	5.00000	4.760
	48	2,4-Dinitrotoluene	165	15.824	15.817	(1.029)	155514	5.00000	4.813
	50	Diethylphthalate	149	16.326	16.319	(1.061)	253004	2.50000	2.588
	49	Fluorene	166	16.481	16.481	(1.071)	287640	2.50000	2.622
	51	4-Chlorophenyl-phenylether	204	16.466	16.466	(1.070)	132439	2.50000	2.538
	52	4-Nitroaniline	138	16.566	16.566	(1.077)	90510	5.00000	4.134
	53	4,6-Dinitro-2-methylphenol	198	16.658	16.658	(0.904)	137459	10.0000	8.630
	54	N-Nitrosodiphenylamine	169	16.720	16.712	(0.908)	183659	2.50000	2.630
$	55	2,4,6-Tribromophenol	330	17.021	17.021	(1.106)	50739	3.75000	3.532
	56	4-Bromophenyl-phenylether	248	17.476	17.476	(0.949)	76926	2.50000	2.633
	57	Hexachlorobenzene	284	17.793	17.793	(0.966)	79507	2.50000	2.596
	58	Pentachlorophenol	266	18.149	18.149	(0.985)	82114	5.00000	4.494
*	59	Phenanthrene-d10	188	18.420	18.420	(1.000)	522311	4.00000	
	60	Phenanthrene	178	18.466	18.466	(1.003)	367912	2.50000	2.583
	61	Anthracene	178	18.559	18.559	(1.008)	364097	2.50000	2.665
	62	Carbazole	167	18.884	18.884	(1.025)	320923	2.50000	2.621
	63	Di-n-butylphthalate	149	19.665	19.666	(1.068)	388084	2.50000	2.363
	64	Fluoranthene	202	20.841	20.841	(0.889)	377104	2.50000	2.634
	65	Pyrene	202	21.267	21.267	(0.907)	384702	2.50000	2.620
$	66	Terphenyl-d14	244	21.545	21.538	(0.919)	288420	2.50000	2.615
	67	Butylbenzylphthalate	149	22.459	22.460	(0.958)	123600	2.50000	2.364
	68	Benzo(a)anthracene	228	23.419	23.419	(0.999)	330796	2.50000	2.630
*	69	Chrysene-d12	240	23.450	23.450	(1.000)	356282	4.00000	
	70	3,3'-Dichlorobenzidine	252	23.373	23.373	(0.997)	311978	7.50000	7.745
	71	Chrysene	228	23.497	23.489	(1.002)	313344	2.50000	2.550
	72	bis(2-Ethylhexyl)phthalate	149	23.481	23.474	(0.959)	172996	2.50000	2.503
*	134	Di-n-octylphthalate-d4	153	24.480	24.480	(1.000)	471925	4.00000	
	73	Di-n-octylphthalate	149	24.495	24.488	(1.001)	311915	2.50000	2.526
	74	Benzo(b)fluoranthene	252	25.370	25.362	(0.969)	353167	2.50000	2.590(H)
	75	Benzo(k)fluoranthene	252	25.417	25.409	(0.971)	351229	2.50000	2.536
	76	Benzo(a)pyrene	252	26.059	26.052	(0.995)	320887	2.50000	2.632
*	77	Perylene-d12	264	26.183	26.183	(1.000)	420725	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	28.998	28.990	(1.107)	418167	2.50000	2.696
	79	Dibenzo(a,h)anthracene	278	29.021	29.005	(1.108)	347350	2.50000	2.697
	80	Benzo(g,h,i)perylene	276	29.836	29.821	(1.140)	356933	2.50000	2.659
	90	N-Nitrosodimethylamine	74	4.928	4.936	(0.530)	165395	5.00000	5.406
	91	Aniline	93	8.752	8.752	(0.941)	348101	5.00000	5.197
	93	Benzidine	184	21.066	21.066	(0.898)	314268	5.00000	5.344
	103	Pyridine	79	4.959	4.997	(0.533)	256226	5.00000	5.453
	105	1-methylnaphthalene	142	13.425	13.425	(1.140)	261060	2.50000	2.560
	111	Azobenzene (1,2-DP-Hydrazine)	77	16.789	16.789	(1.091)	284356	2.50000	2.604

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
187 Total Benzofluoranthenes	252	25.370	25.409	(0.969)	673447	5.00000	5.114
120 2,3,4,6-Tetrachlorophenol	232	16.102	16.103	(1.047)	82842	2.50000	2.640

QC Flag Legend

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

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT10031505.D
Lab Smp Id: SLC0228-CAL4
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230315.b\ABN.m
Misc Info:

Calibration Date: 15-MAR-2023
Calibration Time: 21:50
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	171542	85771	343084	158570	-7.56
27 Naphthalene-d8	624466	312233	1248932	582079	-6.79
42 Acenaphthene-d10	337226	168613	674452	306729	-9.04
59 Phenanthrene-d10	572849	286425	1145698	522311	-8.82
69 Chrysene-d12	347068	173534	694136	356282	2.65
134 Di-n-octylphthala	500317	250159	1000634	471925	-5.67
77 Perylene-d12	421549	210775	843098	420725	-0.20

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.30	8.80	9.80	9.30	0.00
27 Naphthalene-d8	11.78	11.28	12.28	11.78	0.01
42 Acenaphthene-d10	15.38	14.88	15.88	15.38	0.01
59 Phenanthrene-d10	18.42	17.92	18.92	18.42	0.00
69 Chrysene-d12	23.45	22.95	23.95	23.45	0.00
134 Di-n-octylphthala	24.48	23.98	24.98	24.48	0.00
77 Perylene-d12	26.18	25.68	26.68	26.18	0.00

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

REVIEW SUMMARY FOR FILE - NT10031505.D

Lab ID: SLC0228-CAL4
nt10.i, 20230315.b\ABN.m,   15-MAR-2023 22:28

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.953	0.000	0.9532	Benzoic acid

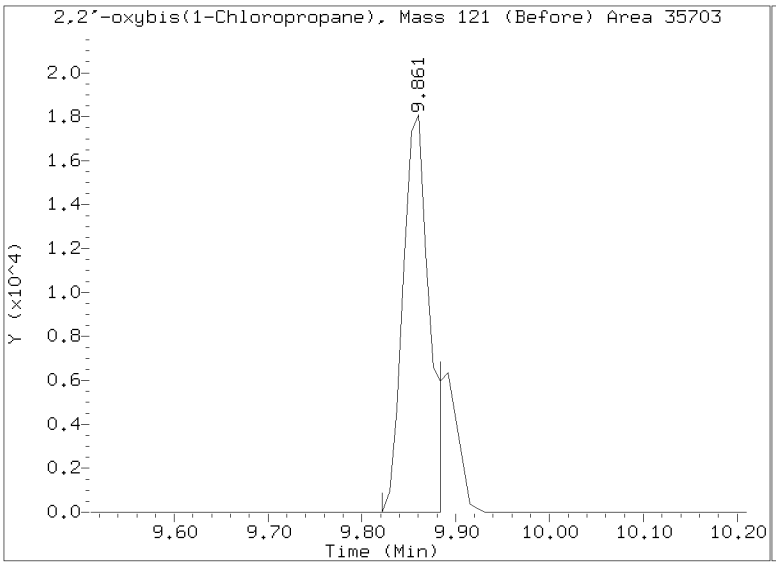
RRT check based on Ccal File: NT10031508.D

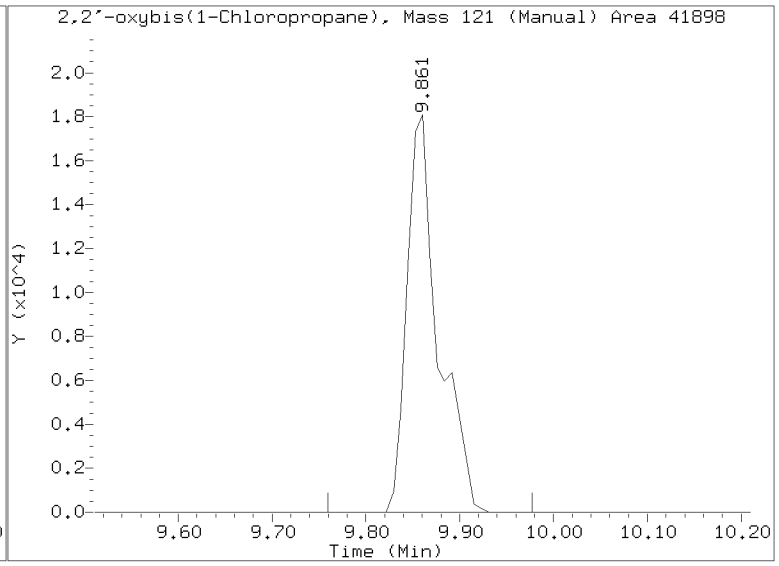
On Column LOD for nt10.i, 20230315.b\ABN.m, ICAL.sub = 0.0000

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230315.b/NT10031505.D
Injection Date: 15-MAR-2023 22:28
Lab ID:SLC0228-CAL4 Client ID:
Report Date: 03/16/2023 12:20





Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031506.D

Page 1

Date : 15-MAR-2023 23:06

Client ID:

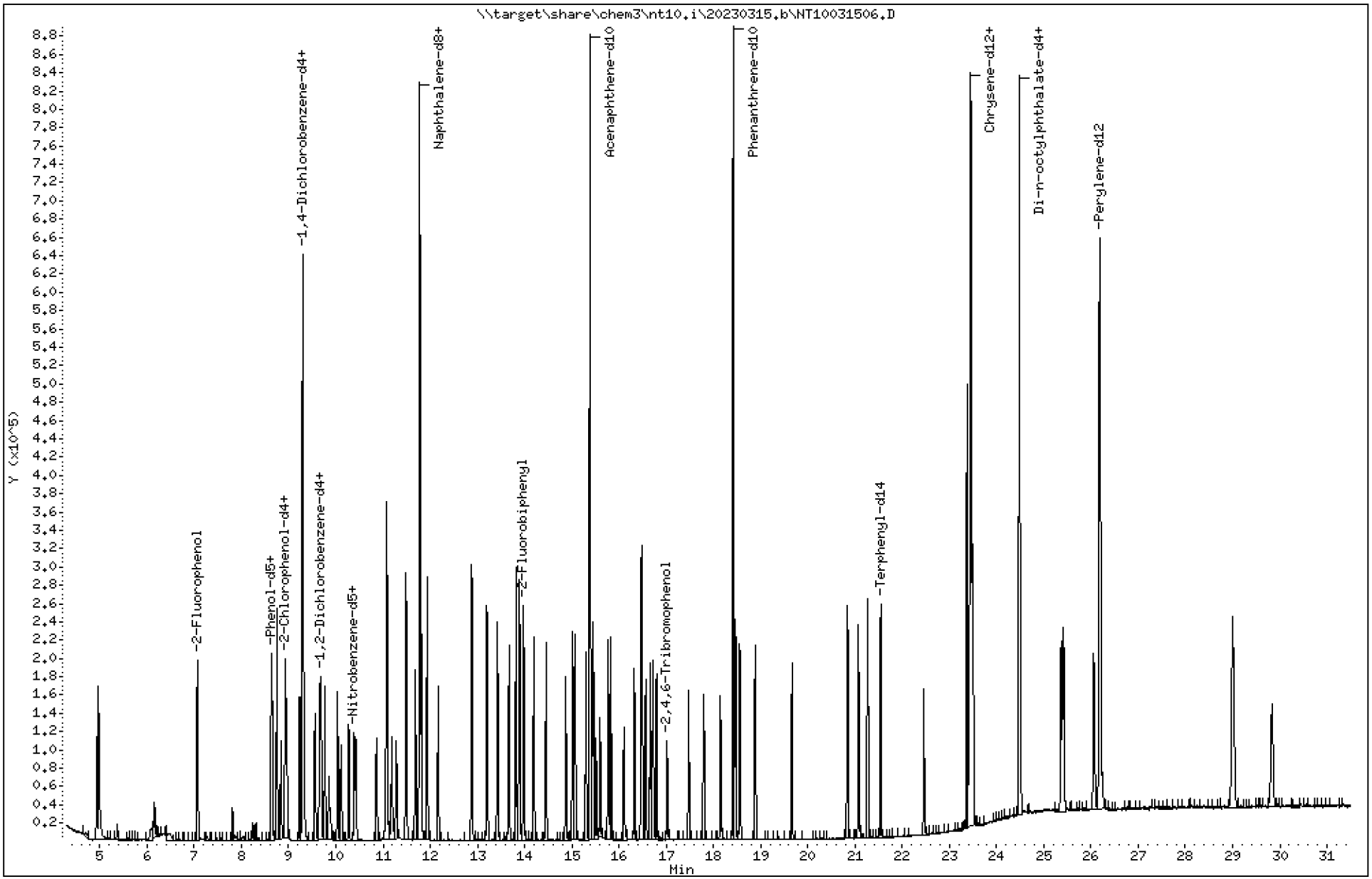
Instrument: nt10.i

Sample Info: SLC0228-CAL3

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230315.b\NT10031506.D
Lab Smp Id: SLC0228-CAL3
Inj Date : 15-MAR-2023 23:06
Operator : VTS Inst ID: nt10.i
Smp Info : SLC0228-CAL3
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230315.b\ABN.m
Meth Date : 16-Mar-2023 12:06 van Quant Type: ISTD
Cal Date : 16-MAR-2023 00:22 Cal File: NT10031508.D
Als bottle: 6 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
$	1 2-Fluorophenol	112	7.067	7.068	(0.761)	81829	1.50000	1.571
$	2 Phenol-d5	99	8.636	8.636	(0.929)	104538	1.50000	1.530
	3 Phenol	94	8.651	8.652	(0.931)	74885	1.00000	1.055
$	5 2-Chlorophenol-d4	132	8.929	8.930	(0.961)	89430	1.50000	1.533
	4 Bis(2-Chloroethyl)ether	93	8.837	8.837	(0.951)	54831	1.00000	1.041
	6 2-Chlorophenol	128	8.960	8.961	(0.964)	61317	1.00000	1.009
	7 1,3-Dichlorobenzene	146	9.239	9.231	(0.994)	66405	1.00000	1.033
*	8 1,4-Dichlorobenzene-d4	152	9.293	9.293	(1.000)	172257	4.00000	
	9 1,4-Dichlorobenzene	146	9.324	9.325	(1.003)	64857	1.00000	1.045
$	10 1,2-Dichlorobenzene-d4	152	9.658	9.658	(1.039)	44150	1.00000	1.053
	12 1,2-Dichlorobenzene	146	9.681	9.682	(1.042)	63657	1.00000	1.042
	11 Benzyl alcohol	108	9.557	9.557	(1.028)	33846	1.00000	1.015
	14 2,2'-oxybis(1-Chloropropane)	121	9.860	9.860	(1.061)	18563	1.00000	1.035(M)
	13 2-Methylphenol	108	9.767	9.767	(1.051)	54013	1.00000	1.043
	17 Hexachloroethane	117	10.271	10.271	(1.105)	25979	1.00000	1.020
	16 N-Nitroso-di-n-propylamine	70	10.108	10.108	(1.088)	42146	1.00000	1.031
	15 4-Methylphenol	108	10.031	10.031	(1.079)	56323	1.00000	1.033
$	18 Nitrobenzene-d5	82	10.388	10.388	(0.882)	64177	1.00000	1.016
	19 Nitrobenzene	77	10.419	10.419	(0.885)	64368	1.00000	1.038
	20 Isophorone	82	10.861	10.861	(0.922)	76637	1.00000	0.9663
	21 2-Nitrophenol	139	11.047	11.048	(0.938)	24076	1.00000	0.7981
	22 2,4-Dimethylphenol	107	11.081	11.082	(0.941)	117551	2.00000	2.064
	23 Bis(2-Chloroethoxy)methane	93	11.284	11.285	(0.958)	55470	1.00000	1.047
	24 Benzoic acid	105	11.182	11.166	(0.950)	66707	4.00000	2.100(H)
	25 2,4-Dichlorophenol	162	11.488	11.489	(0.975)	91015	2.00000	1.997
	26 1,2,4-Trichlorobenzene	180	11.684	11.685	(0.992)	55650	1.00000	1.040
*	27 Naphthalene-d8	136	11.777	11.770	(1.000)	625894	4.00000	
	28 Naphthalene	128	11.815	11.816	(1.003)	168411	1.00000	1.016
	29 4-Chloroaniline	127	11.939	11.940	(1.014)	131129	2.00000	2.027
	30 Hexachlorobutadiene	225	12.171	12.172	(1.033)	32792	1.00000	1.046
	31 4-Chloro-3-methylphenol	107	12.875	12.876	(1.093)	95632	2.00000	1.939
	32 2-Methylnaphthalene	142	13.200	13.201	(1.121)	120977	1.00000	1.011
	33 Hexachlorocyclopentadiene	237	13.664	13.665	(0.888)	55248	2.00000	1.804

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
34	2,4,6-Trichlorophenol	196	13.819	13.820	(0.898)	61689	2.00000	1.886
35	2,4,5-Trichlorophenol	196	13.889	13.890	(0.903)	68648	2.00000	1.889
$ 36	2-Fluorobiphenyl	172	13.981	13.975	(0.909)	133800	1.00000	1.022
37	2-Chloronaphthalene	162	14.198	14.191	(0.923)	107713	1.00000	1.016
38	2-Nitroaniline	65	14.454	14.447	(0.940)	56493	2.00000	1.897
39	Dimethylphthalate	163	14.872	14.873	(0.967)	111361	1.00000	1.036
40	Acenaphthylene	152	15.073	15.066	(0.980)	170871	1.00000	1.034
41	2,6-Dinitrotoluene	165	15.019	15.012	(0.976)	44313	2.00000	1.908
* 42	Acenaphthene-d10	164	15.382	15.383	(1.000)	330997	4.00000	
43	3-Nitroaniline	138	15.297	15.298	(0.994)	50298	2.00000	1.918
44	Acenaphthene	153	15.452	15.445	(1.005)	103833	1.00000	1.017
45	2,4-Dinitrophenol	184	15.514	15.515	(1.009)	25006	4.00000	1.778
46	Dibenzofuran	168	15.769	15.770	(1.025)	152427	1.00000	1.013
47	4-Nitrophenol	109	15.599	15.592	(1.014)	26972	2.00000	1.637
48	2,4-Dinitrotoluene	165	15.823	15.817	(1.029)	61485	2.00000	1.754
50	Diethylphthalate	149	16.325	16.319	(1.061)	107688	1.00000	1.021
49	Fluorene	166	16.488	16.481	(1.072)	122197	1.00000	1.032
51	4-Chlorophenyl-phenylether	204	16.472	16.466	(1.071)	56790	1.00000	1.009
52	4-Nitroaniline	138	16.565	16.566	(1.077)	46355	2.00000	1.962
53	4,6-Dinitro-2-methylphenol	198	16.657	16.658	(0.904)	45458	4.00000	2.638
54	N-Nitrosodiphenylamine	169	16.719	16.712	(0.908)	78992	1.00000	1.039
$ 55	2,4,6-Tribromophenol	330	17.020	17.021	(1.106)	18793	1.50000	1.208
56	4-Bromophenyl-phenylether	248	17.475	17.476	(0.949)	32247	1.00000	1.014
57	Hexachlorobenzene	284	17.799	17.793	(0.966)	35208	1.00000	1.056
58	Pentachlorophenol	266	18.148	18.149	(0.985)	28829	2.00000	1.458
* 59	Phenanthrene-d10	188	18.419	18.420	(1.000)	568685	4.00000	
60	Phenanthrene	178	18.465	18.466	(1.003)	159357	1.00000	1.028
61	Anthracene	178	18.558	18.559	(1.008)	151450	1.00000	1.018
62	Carbazole	167	18.883	18.884	(1.025)	141694	1.00000	1.063
63	Di-n-butylphthalate	149	19.664	19.666	(1.068)	154356	1.00000	0.8619
64	Fluoranthene	202	20.840	20.841	(0.889)	166676	1.00000	0.9718
65	Pyrene	202	21.266	21.267	(0.907)	174023	1.00000	0.9891
$ 66	Terphenyl-d14	244	21.544	21.538	(0.919)	135363	1.00000	1.024
67	Butylbenzylphthalate	149	22.458	22.460	(0.958)	51900	1.00000	0.8366
68	Benzo(a)anthracene	228	23.418	23.419	(0.999)	152617	1.00000	1.013
* 69	Chrysene-d12	240	23.449	23.450	(1.000)	426836	4.00000	
70	3,3'-Dichlorobenzidine	252	23.372	23.373	(0.997)	145183	3.00000	3.008
71	Chrysene	228	23.496	23.489	(1.002)	149535	1.00000	1.016
72	bis(2-Ethylhexyl)phthalate	149	23.480	23.474	(0.959)	73435	1.00000	0.9036
* 134	Di-n-octylphthalate-d4	153	24.479	24.480	(1.000)	555437	4.00000	
73	Di-n-octylphthalate	149	24.487	24.488	(1.000)	146103	1.00000	1.005
74	Benzo(b)fluoranthene	252	25.369	25.362	(0.969)	155706	1.00000	0.9821(H)
75	Benzo(k)fluoranthene	252	25.416	25.409	(0.971)	162831	1.00000	1.011
76	Benzo(a)pyrene	252	26.058	26.052	(0.995)	137233	1.00000	0.9682
* 77	Perylene-d12	264	26.182	26.183	(1.000)	489106	4.00000	
78	Indeno(1,2,3-cd)pyrene	276	29.004	28.990	(1.108)	172403	1.00000	0.9560
79	Dibenzo(a,h)anthracene	278	29.012	29.005	(1.108)	143905	1.00000	0.9612
80	Benzo(g,h,i)perylene	276	29.835	29.821	(1.140)	146972	1.00000	0.9417
90	N-Nitrosodimethylamine	74	4.935	4.936	(0.531)	69420	2.00000	2.089
91	Aniline	93	8.752	8.752	(0.942)	149023	2.00000	2.048
93	Benzidine	184	21.072	21.066	(0.899)	143586	2.00000	2.038
103	Pyridine	79	4.974	4.997	(0.535)	109408	2.00000	2.144
105	1-methylnaphthalene	142	13.432	13.425	(1.141)	111144	1.00000	1.014
111	Azobenzene (1,2-DP-Hydrazine)	77	16.796	16.789	(1.092)	118247	1.00000	1.003

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
187 Total Benzofluoranthenes	252	25.416	25.409	(0.971)	306444	2.00000	2.002
120 2,3,4,6-Tetrachlorophenol	232	16.109	16.103	(1.047)	26430	1.00000	0.7900

QC Flag Legend

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

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT10031506.D
Lab Smp Id: SLC0228-CAL3
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230315.b\ABN.m
Misc Info:

Calibration Date: 15-MAR-2023
Calibration Time: 21:50
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	171542	85771	343084	172257	0.42
27 Naphthalene-d8	624466	312233	1248932	625894	0.23
42 Acenaphthene-d10	337226	168613	674452	330997	-1.85
59 Phenanthrene-d10	572849	286425	1145698	568685	-0.73
69 Chrysene-d12	347068	173534	694136	426836	22.98
134 Di-n-octylphthala	500317	250159	1000634	555437	11.02
77 Perylene-d12	421549	210775	843098	489106	16.03

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.30	8.80	9.80	9.29	-0.09
27 Naphthalene-d8	11.78	11.28	12.28	11.78	-0.00
42 Acenaphthene-d10	15.38	14.88	15.88	15.38	-0.00
59 Phenanthrene-d10	18.42	17.92	18.92	18.42	-0.00
69 Chrysene-d12	23.45	22.95	23.95	23.45	-0.00
134 Di-n-octylphthala	24.48	23.98	24.98	24.48	-0.00
77 Perylene-d12	26.18	25.68	26.68	26.18	-0.00

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

REVIEW SUMMARY FOR FILE - NT10031506.D

Lab ID: SLC0228-CAL3
nt10.i, 20230315.b\ABN.m,   15-MAR-2023 23:06

RT	CO-ELUTION COMPOUNDS
NO CO-ELUTIONS	

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.950	0.000	0.9496	Benzoic acid

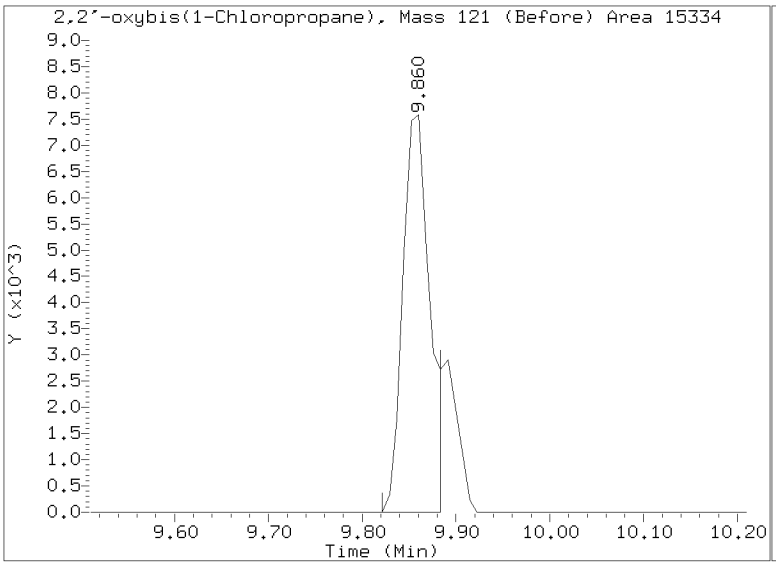
RRT check based on Ccal File: NT10031508.D

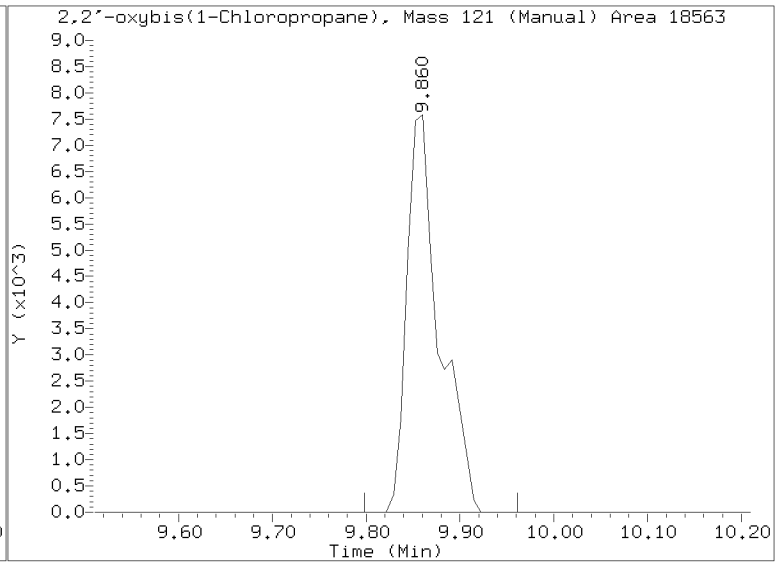
On Column LOD for nt10.i, 20230315.b\ABN.m, ICAL.sub = 0.0000

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

Quant Ion Manual Peak Adjustment Report

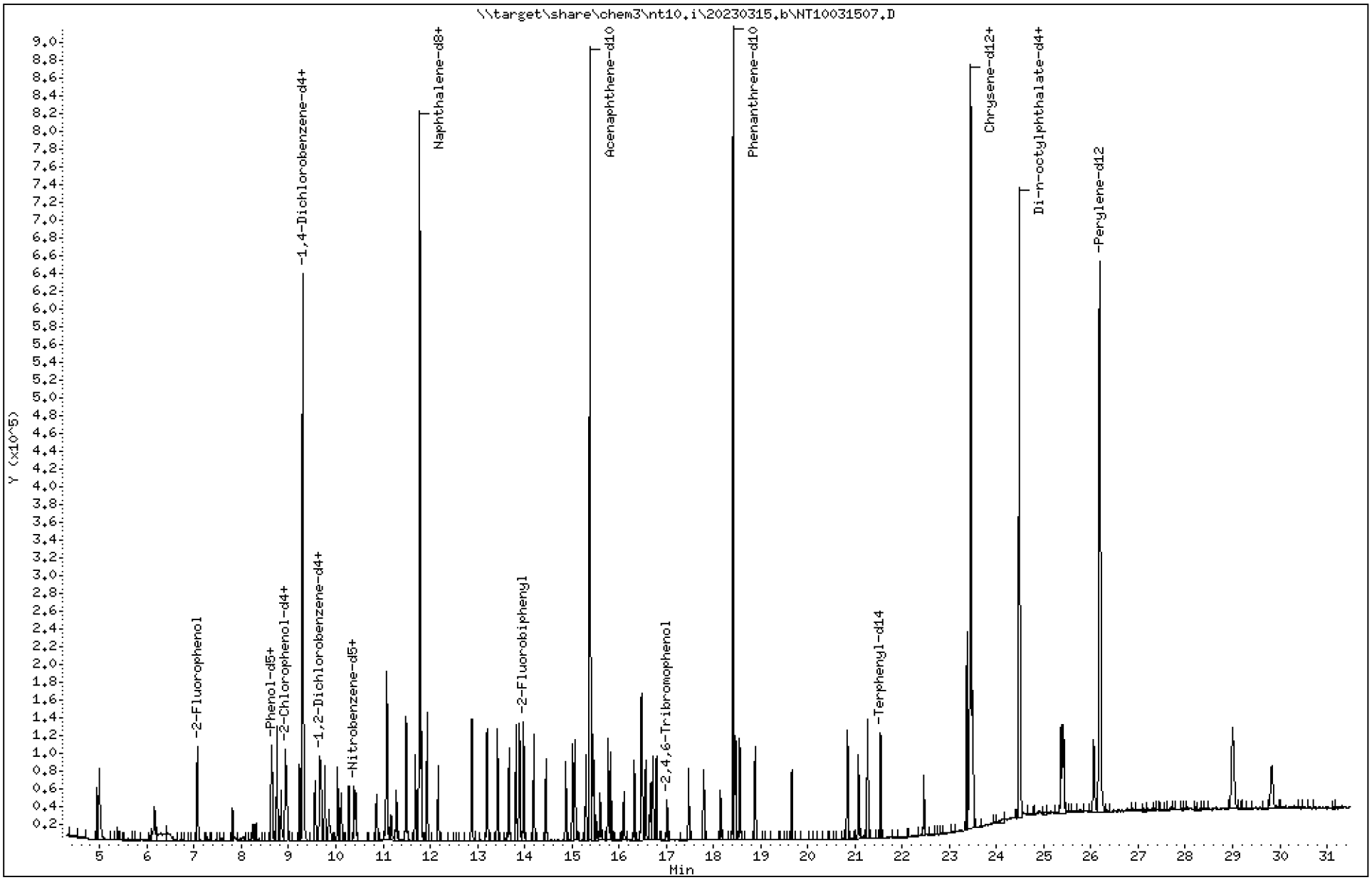
Datafile: //target/share/chem3/nt10.i/20230315.b/NT10031506.D
Injection Date: 15-MAR-2023 23:06
Lab ID:SLC0228-CAL3 Client ID:
Report Date: 03/16/2023 12:20





Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031507.D
Date : 15-MAR-2023 23:44
Client ID:
Sample Info: SLC0228-CAL2

Instrument: nt10.i
Operator: VTS
Column phase: ZB-5msi
Column diameter: 0.25



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230315.b\NT10031507.D
Lab Smp Id: SLC0228-CAL2
Inj Date : 15-MAR-2023 23:44
Operator : VTS Inst ID: nt10.i
Smp Info : SLC0228-CAL2
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230315.b\ABN.m
Meth Date : 16-Mar-2023 12:06 van Quant Type: ISTD
Cal Date : 16-MAR-2023 00:22 Cal File: NT10031508.D
Als bottle: 7 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
$	1 2-Fluorophenol	112	7.068	7.068	(0.760)	41713	0.75000	0.7823
$	2 Phenol-d5	99	8.636	8.636	(0.928)	52580	0.75000	0.7517
	3 Phenol	94	8.659	8.652	(0.931)	38448	0.50000	0.5289
$	5 2-Chlorophenol-d4	132	8.930	8.930	(0.960)	44808	0.75000	0.7501
	4 Bis(2-Chloroethyl)ether	93	8.837	8.837	(0.950)	27479	0.50000	0.5097
	6 2-Chlorophenol	128	8.960	8.961	(0.963)	31239	0.50000	0.5021
	7 1,3-Dichlorobenzene	146	9.231	9.231	(0.992)	35392	0.50000	0.5381
*	8 1,4-Dichlorobenzene-d4	152	9.301	9.293	(1.000)	176328	4.00000	
	9 1,4-Dichlorobenzene	146	9.332	9.325	(1.003)	32578	0.50000	0.5127
$	10 1,2-Dichlorobenzene-d4	152	9.658	9.658	(1.038)	21602	0.50000	0.5036
	12 1,2-Dichlorobenzene	146	9.681	9.682	(1.041)	32678	0.50000	0.5226
	11 Benzyl alcohol	108	9.557	9.557	(1.028)	16132	0.50000	0.4728
	14 2,2'-oxybis(1-Chloropropane)	121	9.852	9.860	(1.059)	9403	0.50000	0.5120(M)
	13 2-Methylphenol	108	9.767	9.767	(1.050)	26839	0.50000	0.5065
	17 Hexachloroethane	117	10.271	10.271	(1.104)	13005	0.50000	0.4989
	16 N-Nitroso-di-n-propylamine	70	10.116	10.108	(1.088)	20902	0.50000	0.4996
	15 4-Methylphenol	108	10.031	10.031	(1.078)	27419	0.50000	0.4911
$	18 Nitrobenzene-d5	82	10.388	10.388	(0.882)	31837	0.50000	0.4937
	19 Nitrobenzene	77	10.419	10.419	(0.885)	32321	0.50000	0.5108
	20 Isophorone	82	10.861	10.861	(0.922)	37232	0.50000	0.4599
	21 2-Nitrophenol	139	11.047	11.048	(0.938)	10858	0.50000	0.3528
	22 2,4-Dimethylphenol	107	11.081	11.082	(0.941)	60037	1.00000	1.033
	23 Bis(2-Chloroethoxy)methane	93	11.284	11.285	(0.958)	28288	0.50000	0.5231
	24 Benzoic acid	105	11.166	11.166	(0.948)	22417	2.00000	0.6937(MH)
	25 2,4-Dichlorophenol	162	11.488	11.489	(0.975)	44450	1.00000	0.9557
	26 1,2,4-Trichlorobenzene	180	11.684	11.685	(0.992)	28877	0.50000	0.5289
*	27 Naphthalene-d8	136	11.777	11.770	(1.000)	638835	4.00000	
	28 Naphthalene	128	11.815	11.816	(1.003)	87181	0.50000	0.5151
	29 4-Chloroaniline	127	11.939	11.940	(1.014)	66172	1.00000	1.002
	30 Hexachlorobutadiene	225	12.171	12.172	(1.033)	16273	0.50000	0.5087
	31 4-Chloro-3-methylphenol	107	12.883	12.876	(1.094)	47168	1.00000	0.9368
	32 2-Methylnaphthalene	142	13.208	13.201	(1.122)	61248	0.50000	0.5015
	33 Hexachlorocyclopentadiene	237	13.672	13.665	(0.889)	26827	1.00000	0.8689

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
34	2,4,6-Trichlorophenol	196	13.819	13.820	(0.898)	28405	1.00000	0.8614
35	2,4,5-Trichlorophenol	196	13.889	13.890	(0.903)	32893	1.00000	0.8978
$ 36	2-Fluorobiphenyl	172	13.982	13.975	(0.909)	68004	0.50000	0.5153
37	2-Chloronaphthalene	162	14.198	14.191	(0.923)	55073	0.50000	0.5154
38	2-Nitroaniline	65	14.446	14.447	(0.939)	26440	1.00000	0.8809
39	Dimethylphthalate	163	14.879	14.873	(0.967)	57101	0.50000	0.5269
40	Acenaphthylene	152	15.065	15.066	(0.979)	86568	0.50000	0.5199
41	2,6-Dinitrotoluene	165	15.019	15.012	(0.976)	20170	1.00000	0.8615
* 42	Acenaphthene-d10	164	15.382	15.383	(1.000)	333617	4.00000	
43	3-Nitroaniline	138	15.297	15.298	(0.994)	23424	1.00000	0.8864
44	Acenaphthene	153	15.452	15.445	(1.005)	52615	0.50000	0.5115
45	2,4-Dinitrophenol	184	15.514	15.515	(1.009)	6815	2.00000	0.4819
46	Dibenzofuran	168	15.769	15.770	(1.025)	78914	0.50000	0.5202
47	4-Nitrophenol	109	15.599	15.592	(1.014)	10811	1.00000	0.6506
48	2,4-Dinitrotoluene	165	15.823	15.817	(1.029)	27229	1.00000	0.7695
50	Diethylphthalate	149	16.326	16.319	(1.061)	52123	0.50000	0.4902
49	Fluorene	166	16.488	16.481	(1.072)	60511	0.50000	0.5070
51	4-Chlorophenyl-phenylether	204	16.472	16.466	(1.071)	28771	0.50000	0.5070
52	4-Nitroaniline	138	16.565	16.566	(1.077)	22911	1.00000	0.9621
53	4,6-Dinitro-2-methylphenol	198	16.665	16.658	(0.905)	16474	2.00000	0.9166
54	N-Nitrosodiphenylamine	169	16.719	16.712	(0.908)	40999	0.50000	0.5160
$ 55	2,4,6-Tribromophenol	330	17.020	17.021	(1.106)	8451	0.75000	0.5386
56	4-Bromophenyl-phenylether	248	17.475	17.476	(0.949)	15854	0.50000	0.4770
57	Hexachlorobenzene	284	17.792	17.793	(0.966)	17123	0.50000	0.4914
58	Pentachlorophenol	266	18.148	18.149	(0.985)	11460	1.00000	0.5555
* 59	Phenanthrene-d10	188	18.419	18.420	(1.000)	594262	4.00000	
60	Phenanthrene	178	18.465	18.466	(1.003)	82180	0.50000	0.5072
61	Anthracene	178	18.558	18.559	(1.008)	75192	0.50000	0.4837
62	Carbazole	167	18.883	18.884	(1.025)	70986	0.50000	0.5096
63	Di-n-butylphthalate	149	19.664	19.666	(1.068)	69653	0.50000	0.3720
64	Fluoranthene	202	20.840	20.841	(0.889)	81400	0.50000	0.4730
65	Pyrene	202	21.266	21.267	(0.907)	86158	0.50000	0.4881
$ 66	Terphenyl-d14	244	21.545	21.538	(0.919)	66564	0.50000	0.5021
67	Butylbenzylphthalate	149	22.458	22.460	(0.958)	23199	0.50000	0.3738
68	Benzo(a)anthracene	228	23.426	23.419	(0.999)	76435	0.50000	0.5056
* 69	Chrysene-d12	240	23.449	23.450	(1.000)	428263	4.00000	
70	3,3'-Dichlorobenzidine	252	23.372	23.373	(0.997)	66937	1.50000	1.382
71	Chrysene	228	23.496	23.489	(1.002)	76545	0.50000	0.5183
72	bis(2-Ethylhexyl)phthalate	149	23.480	23.474	(0.959)	29596	0.50000	0.3811
* 134	Di-n-octylphthalate-d4	153	24.479	24.480	(1.000)	530893	4.00000	
73	Di-n-octylphthalate	149	24.487	24.488	(1.000)	70499	0.50000	0.5074
74	Benzo(b)fluoranthene	252	25.369	25.362	(0.969)	77837	0.50000	0.5012(H)
75	Benzo(k)fluoranthene	252	25.408	25.409	(0.970)	76548	0.50000	0.4854
76	Benzo(a)pyrene	252	26.059	26.052	(0.995)	65959	0.50000	0.4750
* 77	Perylene-d12	264	26.182	26.183	(1.000)	479116	4.00000	
78	Indeno(1,2,3-cd)pyrene	276	28.997	28.990	(1.107)	79229	0.50000	0.4485
79	Dibenzo(a,h)anthracene	278	29.012	29.005	(1.108)	66422	0.50000	0.4529
80	Benzo(g,h,i)perylene	276	29.828	29.821	(1.139)	67819	0.50000	0.4436
90	N-Nitrosodimethylamine	74	4.936	4.936	(0.531)	37892	1.00000	1.114
91	Aniline	93	8.752	8.752	(0.941)	78232	1.00000	1.050
93	Benzidine	184	21.073	21.066	(0.899)	63059	1.00000	0.8921
103	Pyridine	79	4.982	4.997	(0.536)	58765	1.00000	1.125
105	1-methylnaphthalene	142	13.424	13.425	(1.140)	56774	0.50000	0.5074
111	Azobenzene (1,2-DP-Hydrazine)	77	16.796	16.789	(1.092)	61206	0.50000	0.5153

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
187 Total Benzofluoranthenes	252	25.408	25.409	(0.970)	149145	1.00000	0.9946
120 2,3,4,6-Tetrachlorophenol	232	16.101	16.103	(1.047)	11604	0.50000	0.3451

QC Flag Legend

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

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT10031507.D
Lab Smp Id: SLC0228-CAL2
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230315.b\ABN.m
Misc Info:

Calibration Date: 15-MAR-2023
Calibration Time: 21:50
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	171542	85771	343084	176328	2.79
27 Naphthalene-d8	624466	312233	1248932	638835	2.30
42 Acenaphthene-d10	337226	168613	674452	333617	-1.07
59 Phenanthrene-d10	572849	286425	1145698	594262	3.74
69 Chrysene-d12	347068	173534	694136	428263	23.39
134 Di-n-octylphthala	500317	250159	1000634	530893	6.11
77 Perylene-d12	421549	210775	843098	479116	13.66

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.30	8.80	9.80	9.30	0.00
27 Naphthalene-d8	11.78	11.28	12.28	11.78	0.00
42 Acenaphthene-d10	15.38	14.88	15.88	15.38	0.00
59 Phenanthrene-d10	18.42	17.92	18.92	18.42	0.00
69 Chrysene-d12	23.45	22.95	23.95	23.45	0.00
134 Di-n-octylphthala	24.48	23.98	24.98	24.48	0.00
77 Perylene-d12	26.18	25.68	26.68	26.18	0.00

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

REVIEW SUMMARY FOR FILE - NT10031507.D

Lab ID: SLC0228-CAL2
nt10.i, 20230315.b\ABN.m,   15-MAR-2023 23:44

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.948	0.000	0.9481	Benzoic acid

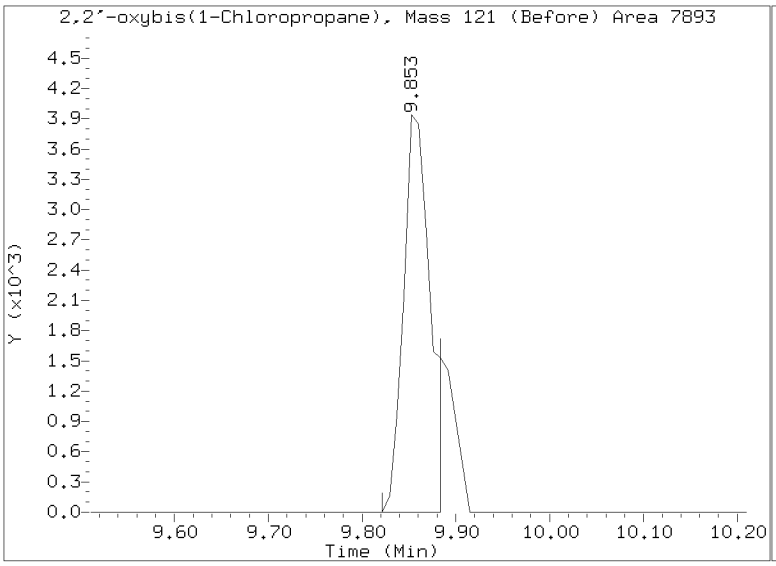
RRT check based on Ccal File: NT10031508.D

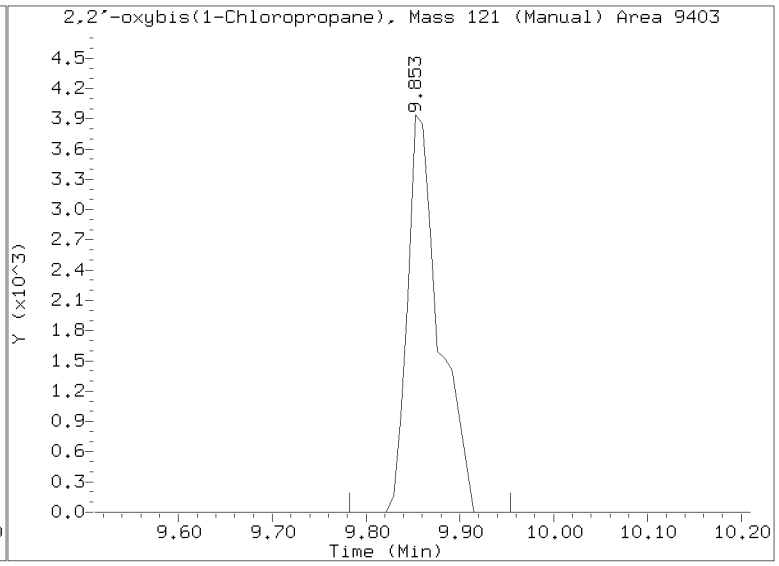
On Column LOD for nt10.i, 20230315.b\ABN.m, ICAL.sub = 0.0000

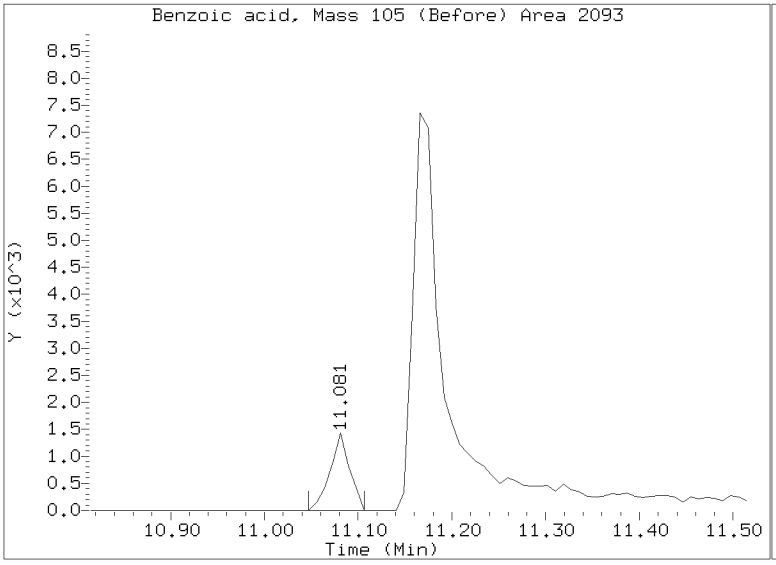
* Only compounds listed in the work order have been verified by the analyst *

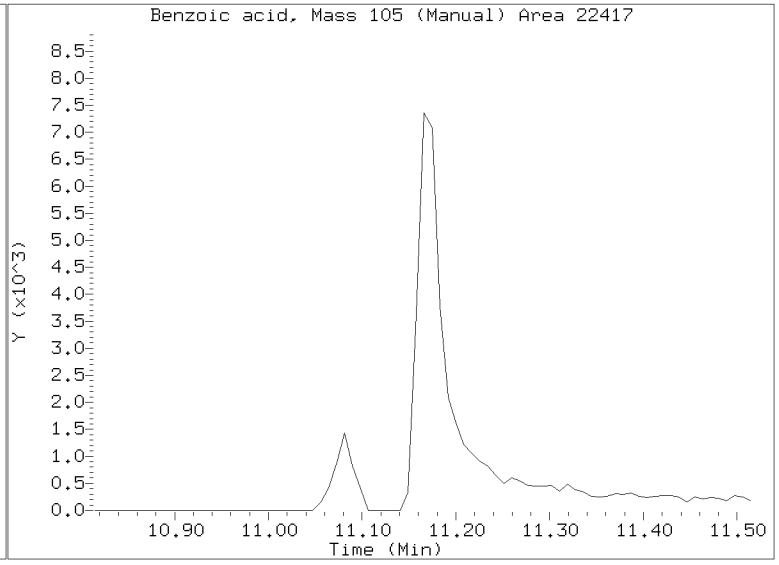
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230315.b/NT10031507.D
Injection Date: 15-MAR-2023 23:44
Lab ID:SLC0228-CAL2 Client ID:
Report Date: 03/16/2023 12:20





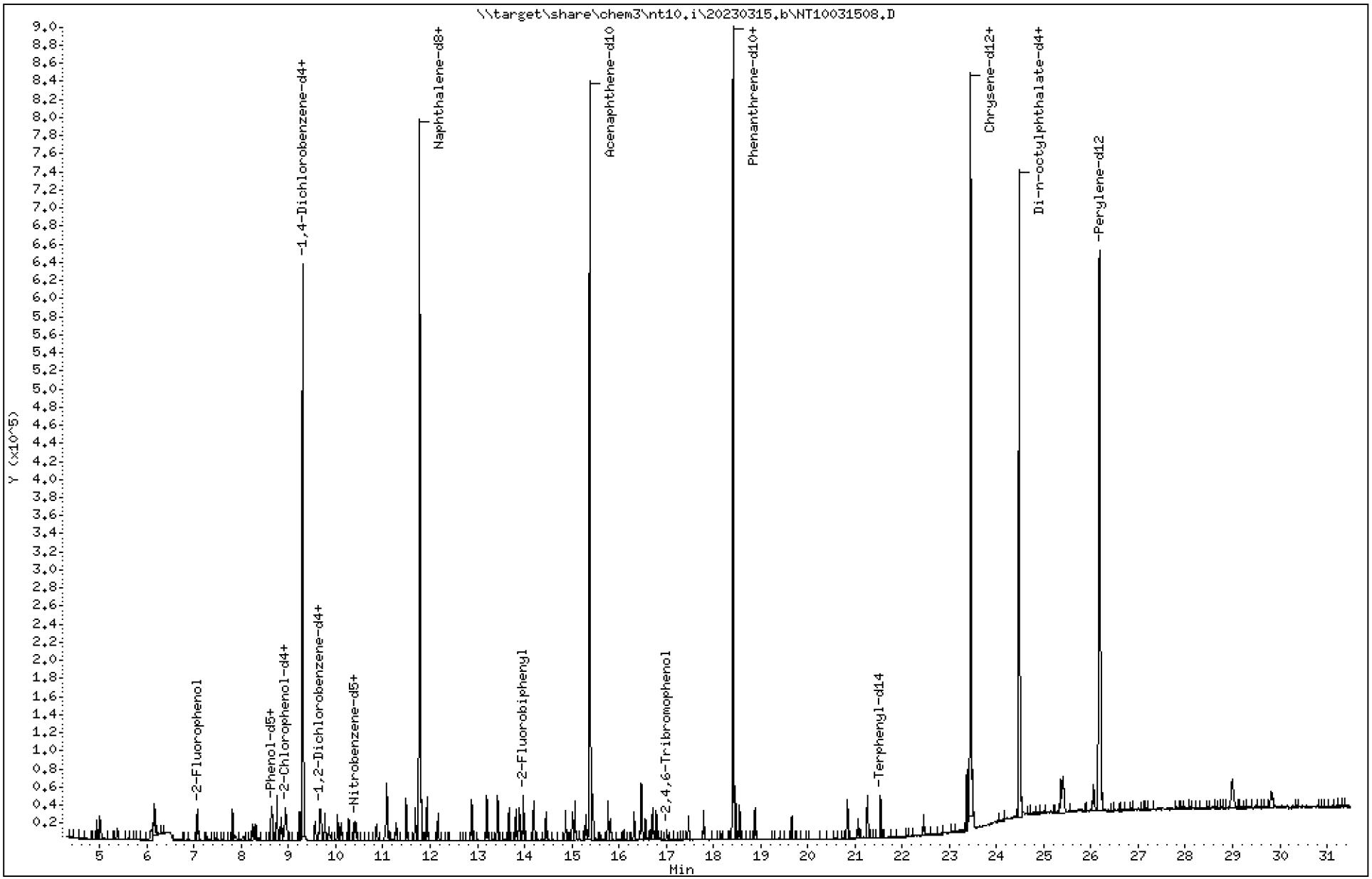




Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031508.D
Date : 16-MAR-2023 00:22
Client ID:
Sample Info: SLC0228-CAL1

Instrument: nt10.i
Operator: VTS
Column diameter: 0.25

Column phase: ZB-5msi



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230315.b\NT10031508.D
Lab Smp Id: SLC0228-CAL1
Inj Date : 16-MAR-2023 00:22
Operator : VTS Inst ID: nt10.i
Smp Info : SLC0228-CAL1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230315.b\ABN.m
Meth Date : 16-Mar-2023 12:06 van Quant Type: ISTD
Cal Date : 16-MAR-2023 00:22 Cal File: NT10031508.D
Als bottle: 8 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
$	1 2-Fluorophenol	112	7.068	7.068	(0.761)	15217	0.30000	0.2902
$	2 Phenol-d5	99	8.636	8.636	(0.929)	19316	0.30000	0.2808
	3 Phenol	94	8.652	8.652	(0.931)	14062	0.20000	0.1967
$	5 2-Chlorophenol-d4	132	8.930	8.930	(0.961)	16402	0.30000	0.2792
	4 Bis(2-Chloroethyl)ether	93	8.837	8.837	(0.951)	11069	0.20000	0.2088
	6 2-Chlorophenol	128	8.961	8.961	(0.964)	11429	0.20000	0.1868
	7 1,3-Dichlorobenzene	146	9.231	9.231	(0.993)	13532	0.20000	0.2092
*	8 1,4-Dichlorobenzene-d4	152	9.293	9.293	(1.000)	173382	4.00000	
	9 1,4-Dichlorobenzene	146	9.325	9.325	(1.003)	12851	0.20000	0.2057
$	10 1,2-Dichlorobenzene-d4	152	9.658	9.658	(1.039)	8167	0.20000	0.1936(M)
	12 1,2-Dichlorobenzene	146	9.682	9.682	(1.042)	12650	0.20000	0.2057
	11 Benzyl alcohol	108	9.557	9.557	(1.028)	5351	0.20000	0.1595
	14 2,2'-oxybis(1-Chloropropane)	121	9.860	9.860	(1.061)	3773	0.20000	0.2090(M)
	13 2-Methylphenol	108	9.767	9.767	(1.051)	9529	0.20000	0.1829
	17 Hexachloroethane	117	10.271	10.271	(1.105)	5030	0.20000	0.1962
	16 N-Nitroso-di-n-propylamine	70	10.108	10.108	(1.088)	7690	0.20000	0.1869
	15 4-Methylphenol	108	10.031	10.031	(1.079)	9916	0.20000	0.1806
$	18 Nitrobenzene-d5	82	10.388	10.388	(0.883)	11367	0.20000	0.1808
	19 Nitrobenzene	77	10.419	10.419	(0.885)	11856	0.20000	0.1922
	20 Isophorone	82	10.861	10.861	(0.923)	13500	0.20000	0.1711
	21 2-Nitrophenol	139	11.048	11.048	(0.939)	3314	0.20000	0.1105
	22 2,4-Dimethylphenol	107	11.082	11.082	(0.942)	21781	0.40000	0.3844
	23 Bis(2-Chloroethoxy)methane	93	11.285	11.285	(0.959)	10633	0.20000	0.2017
	24 Benzoic acid	105	Compound Not Detected.					
	25 2,4-Dichlorophenol	162	11.489	11.489	(0.976)	14498	0.40000	0.3198
	26 1,2,4-Trichlorobenzene	180	11.685	11.685	(0.993)	11312	0.20000	0.2125
*	27 Naphthalene-d8	136	11.770	11.770	(1.000)	622719	4.00000	
	28 Naphthalene	128	11.816	11.816	(1.004)	34693	0.20000	0.2103
	29 4-Chloroaniline	127	11.940	11.940	(1.014)	23161	0.40000	0.3599
	30 Hexachlorobutadiene	225	12.172	12.172	(1.034)	6358	0.20000	0.2039
	31 4-Chloro-3-methylphenol	107	12.876	12.876	(1.094)	15112	0.40000	0.3079
	32 2-Methylnaphthalene	142	13.201	13.201	(1.122)	23564	0.20000	0.1979
	33 Hexachlorocyclopentadiene	237	13.665	13.665	(0.888)	8871	0.40000	0.2963

		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
	34 2,4,6-Trichlorophenol	196	13.820	13.820	(0.898)	8113	0.40000	0.2538
	35 2,4,5-Trichlorophenol	196	13.890	13.890	(0.903)	10952	0.40000	0.3083
$	36 2-Fluorobiphenyl	172	13.975	13.975	(0.908)	26256	0.20000	0.2052
	37 2-Chloronaphthalene	162	14.191	14.191	(0.923)	21320	0.20000	0.2058
	38 2-Nitroaniline	65	14.447	14.447	(0.939)	7997	0.40000	0.2748
	39 Dimethylphthalate	163	14.873	14.873	(0.967)	21402	0.20000	0.2037
	40 Acenaphthylene	152	15.066	15.066	(0.979)	30956	0.20000	0.1918
	41 2,6-Dinitrotoluene	165	15.012	15.012	(0.976)	6371	0.40000	0.2807
*	42 Acenaphthene-d10	164	15.383	15.383	(1.000)	323444	4.00000	
	43 3-Nitroaniline	138	15.298	15.298	(0.994)	6696	0.40000	0.2614
	44 Acenaphthene	153	15.445	15.445	(1.004)	20741	0.20000	0.2080
	45 2,4-Dinitrophenol	184	15.515	15.515	(1.009)	447	0.80000	0.03263
	46 Dibenzofuran	168	15.770	15.770	(1.025)	29705	0.20000	0.2020
	47 4-Nitrophenol	109	15.592	15.592	(1.014)	2336	0.40000	0.1450
	48 2,4-Dinitrotoluene	165	15.816	15.817	(1.028)	7302	0.40000	0.2127
	50 Diethylphthalate	149	16.319	16.319	(1.061)	19430	0.20000	0.1885
	49 Fluorene	166	16.481	16.481	(1.071)	22739	0.20000	0.1965
	51 4-Chlorophenyl-phenylether	204	16.466	16.466	(1.070)	11288	0.20000	0.2052
	52 4-Nitroaniline	138	16.566	16.566	(1.077)	6775	0.40000	0.2934
	53 4,6-Dinitro-2-methylphenol	198	16.658	16.658	(0.904)	3116	0.80000	0.1772
	54 N-Nitrosodiphenylamine	169	16.712	16.712	(0.907)	15391	0.20000	0.1978
$	55 2,4,6-Tribromophenol	330	17.021	17.021	(1.106)	2409	0.30000	0.1583
	56 4-Bromophenyl-phenylether	248	17.476	17.476	(0.949)	5757	0.20000	0.1768
	57 Hexachlorobenzene	284	17.793	17.793	(0.966)	7271	0.20000	0.2130
	58 Pentachlorophenol	266	18.149	18.149	(0.985)	2441	0.40000	0.1209
*	59 Phenanthrene-d10	188	18.420	18.420	(1.000)	582036	4.00000	
	60 Phenanthrene	178	18.466	18.466	(1.003)	32949	0.20000	0.2076
	61 Anthracene	178	18.559	18.559	(1.008)	27813	0.20000	0.1827
	62 Carbazole	167	18.884	18.884	(1.025)	25881	0.20000	0.1897
	63 Di-n-butylphthalate	149	19.665	19.666	(1.068)	22443	0.20000	0.1223
	64 Fluoranthene	202	20.841	20.841	(0.889)	30231	0.20000	0.1696
	65 Pyrene	202	21.267	21.267	(0.907)	32288	0.20000	0.1766
$	66 Terphenyl-d14	244	21.538	21.538	(0.918)	26268	0.20000	0.1913
	67 Butylbenzylphthalate	149	22.459	22.460	(0.958)	7408	0.20000	0.1154
	68 Benzo(a)anthracene	228	23.419	23.419	(0.999)	30301	0.20000	0.1936
*	69 Chrysene-d12	240	23.450	23.450	(1.000)	443504	4.00000	
	70 3,3'-Dichlorobenzidine	252	23.373	23.373	(0.997)	21879	0.60000	0.4363
	71 Chrysene	228	23.489	23.489	(1.002)	30146	0.20000	0.1971
	72 bis(2-Ethylhexyl)phthalate	149	23.473	23.474	(0.959)	9248	0.20000	0.1169
*	134 Di-n-octylphthalate-d4	153	24.480	24.480	(1.000)	540769	4.00000	
	73 Di-n-octylphthalate	149	24.488	24.488	(1.000)	30690	0.20000	0.2169
	74 Benzo(b)fluoranthene	252	25.362	25.362	(0.969)	28924	0.20000	0.1818(H)
	75 Benzo(k)fluoranthene	252	25.409	25.409	(0.970)	32537	0.20000	0.2014
	76 Benzo(a)pyrene	252	26.052	26.052	(0.995)	24358	0.20000	0.1713
*	77 Perylene-d12	264	26.183	26.183	(1.000)	490725	4.00000	
	78 Indeno(1,2,3-cd)pyrene	276	28.990	28.990	(1.107)	27518	0.20000	0.1521
	79 Dibenzo(a,h)anthracene	278	29.005	29.005	(1.108)	22711	0.20000	0.1512
	80 Benzo(g,h,i)perylene	276	29.821	29.821	(1.139)	24036	0.20000	0.1535
	90 N-Nitrosodimethylamine	74	4.936	4.936	(0.531)	13409	0.40000	0.4009
	91 Aniline	93	8.752	8.752	(0.942)	29775	0.40000	0.4065
	93 Benzidine	184	21.066	21.066	(0.898)	16630	0.40000	0.2272
	103 Pyridine	79	4.997	4.997	(0.538)	19539	0.40000	0.3803
	105 1-methylnaphthalene	142	13.425	13.425	(1.141)	21820	0.20000	0.2000
	111 Azobenzene (1,2-DP-Hydrazine)	77	16.789	16.789	(1.091)	22091	0.20000	0.1918

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
187 Total Benzofluoranthenes	252	25.409	25.409	(0.970)	58677	0.40000	0.3820
120 2,3,4,6-Tetrachlorophenol	232	16.102	16.103	(1.047)	3113	0.20000	0.09564

QC Flag Legend

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

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT10031508.D
Lab Smp Id: SLC0228-CAL1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230315.b\ABN.m
Misc Info:

Calibration Date: 15-MAR-2023
Calibration Time: 21:50
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	171542	85771	343084	173382	1.07
27 Naphthalene-d8	624466	312233	1248932	622719	-0.28
42 Acenaphthene-d10	337226	168613	674452	323444	-4.09
59 Phenanthrene-d10	572849	286425	1145698	582036	1.60
69 Chrysene-d12	347068	173534	694136	443504	27.79
134 Di-n-octylphthala	500317	250159	1000634	540769	8.09
77 Perylene-d12	421549	210775	843098	490725	16.41

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.30	8.80	9.80	9.29	-0.08
27 Naphthalene-d8	11.78	11.28	12.28	11.77	-0.06
42 Acenaphthene-d10	15.38	14.88	15.88	15.38	0.01
59 Phenanthrene-d10	18.42	17.92	18.92	18.42	0.00
69 Chrysene-d12	23.45	22.95	23.95	23.45	0.00
134 Di-n-octylphthala	24.48	23.98	24.98	24.48	0.00
77 Perylene-d12	26.18	25.68	26.68	26.18	0.00

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

REVIEW SUMMARY FOR FILE - NT10031508.D

Lab ID: SLC0228-CAL1
nt10.i, 20230315.b\ABN.m,   16-MAR-2023 00:22

RT	CO-ELUTION COMPOUNDS
NO CO-ELUTIONS	

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
NONE			

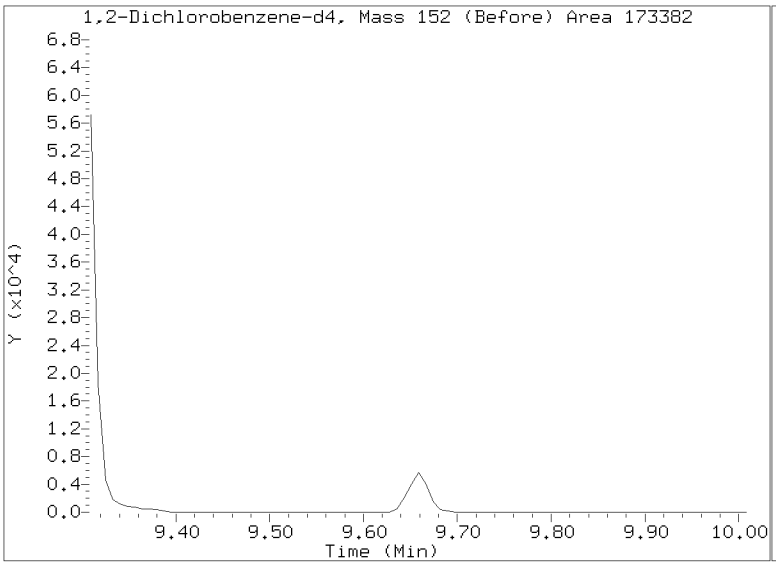
RRT check based on Ccal File: NT10031508.D

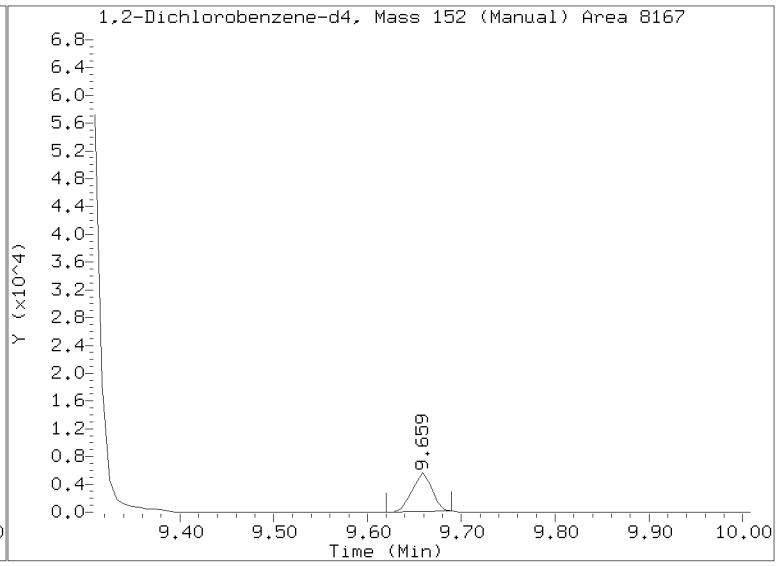
On Column LOD for nt10.i, 20230315.b\ABN.m, ICAL.sub = 0.0000

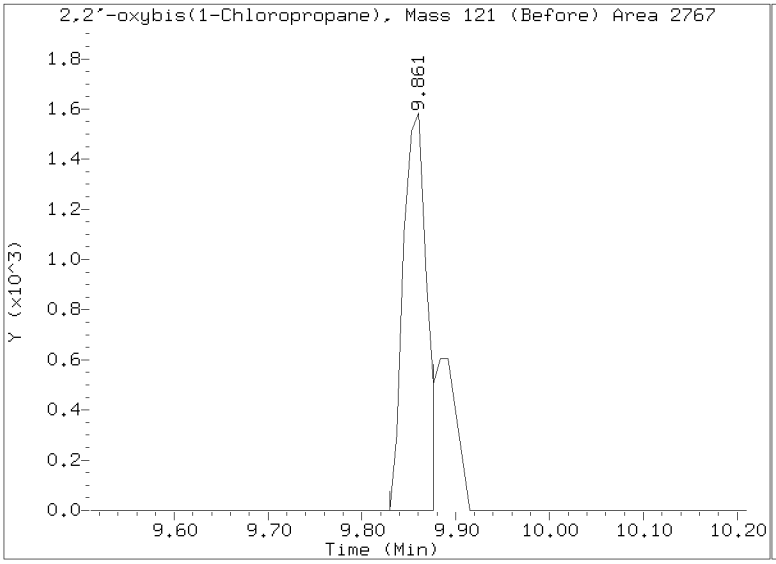
* Only compounds listed in the work order have been verified by the analyst *

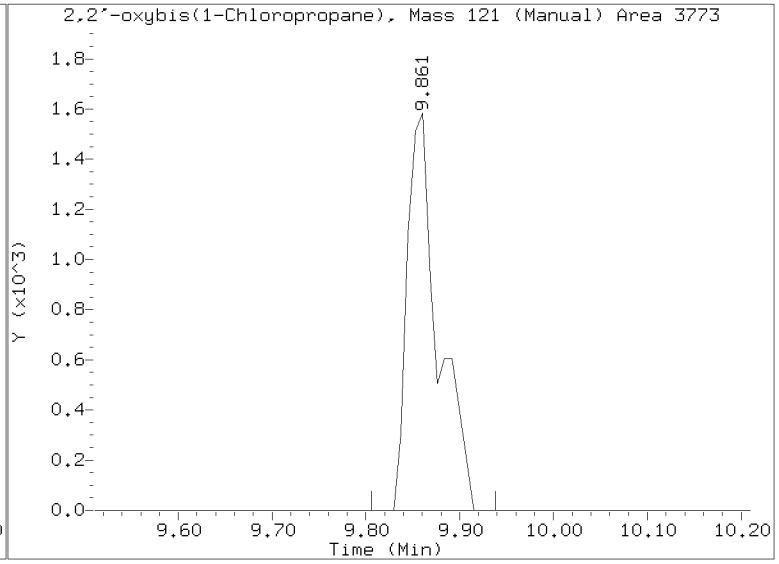
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230315.b/NT10031508.D
Injection Date: 16-MAR-2023 00:22
Lab ID:SLC0228-CAL1 Client ID:
Report Date: 03/16/2023 12:20









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Page 1

Date : 16-MAR-2023 02:16

Client ID:

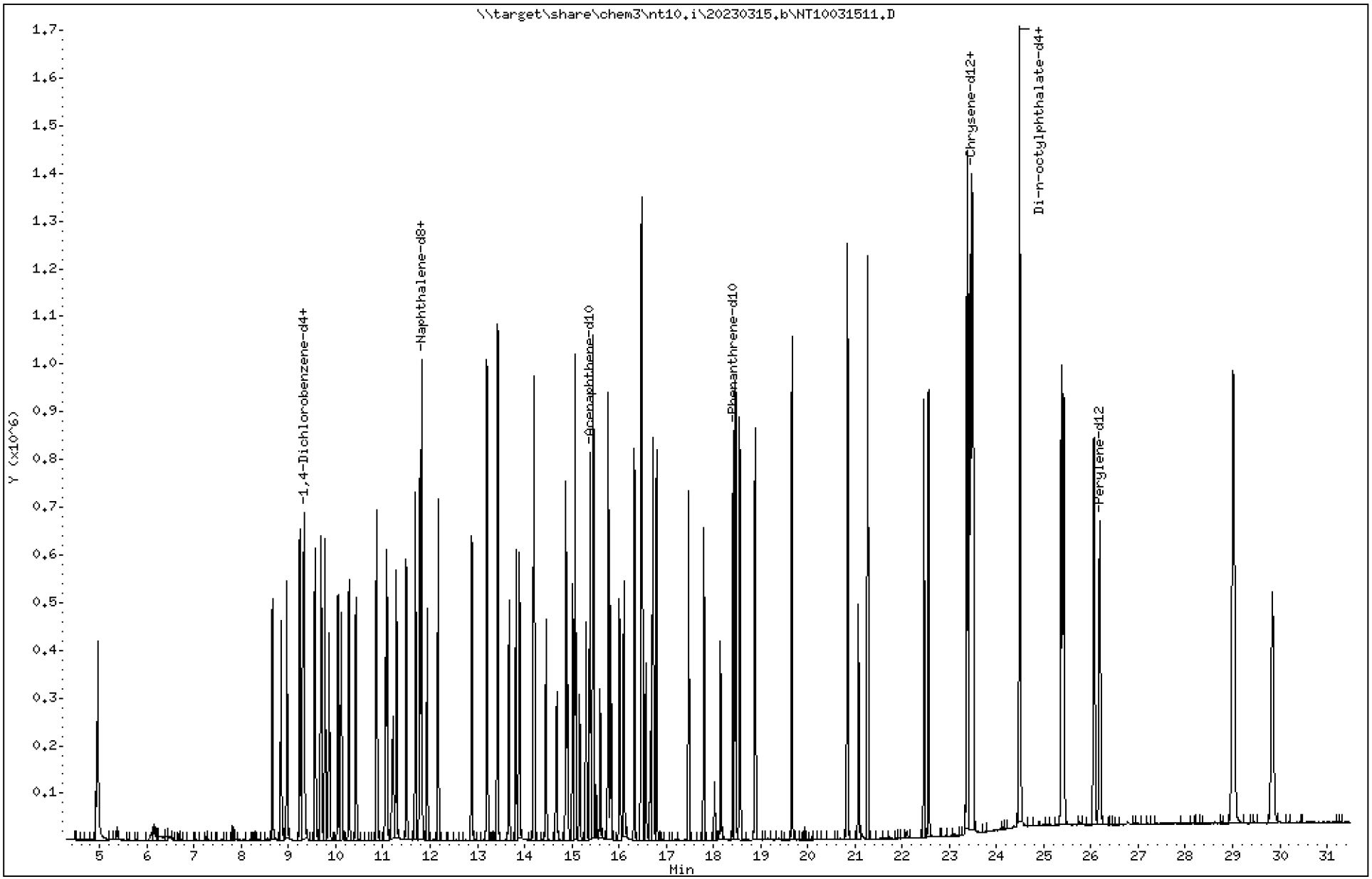
Instrument: nt10.i

Sample Info: SLC0228-SCV1

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

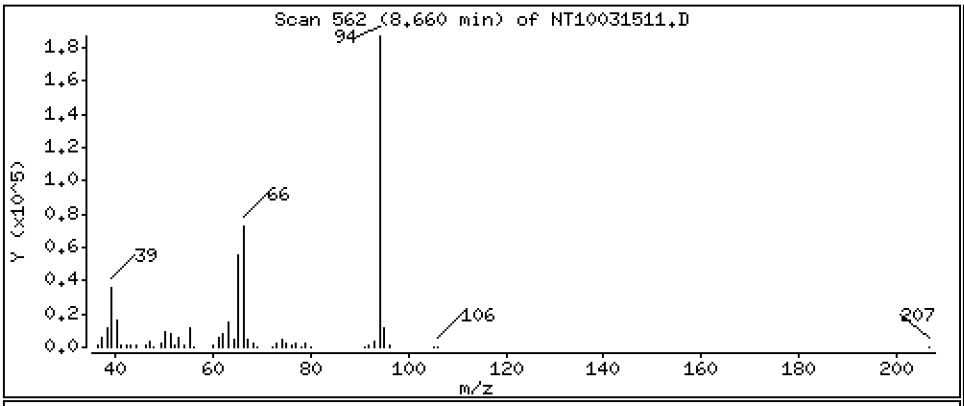
Operator: VTS

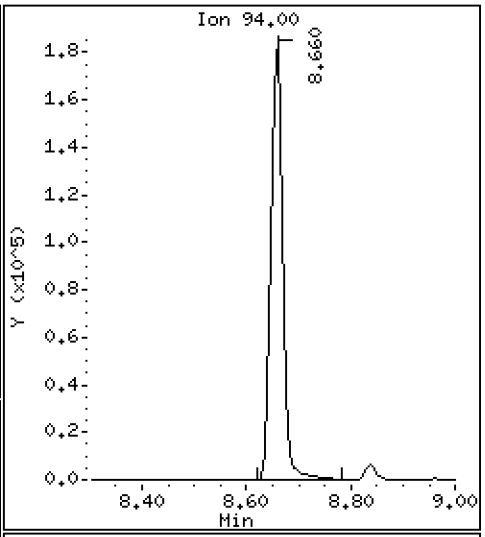
Column phase: ZB-5msi

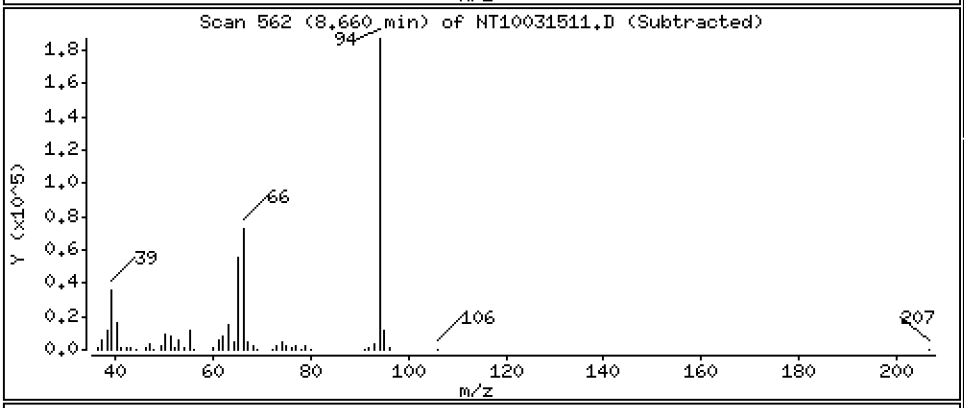
Column diameter: 0.25

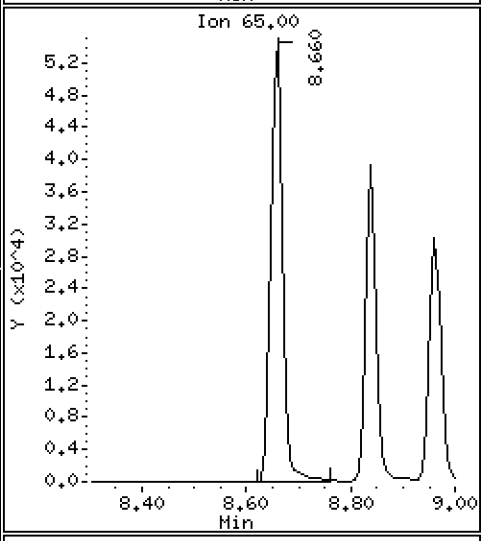
3 Phenol

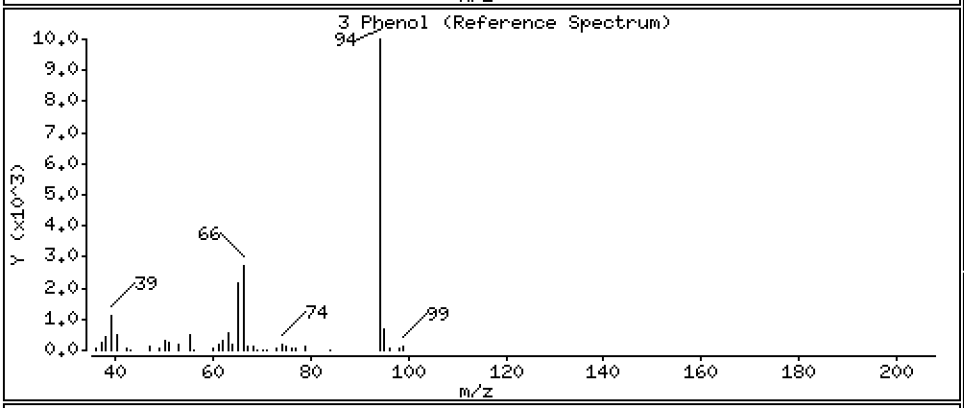
Concentration: 4.412 ug/mL

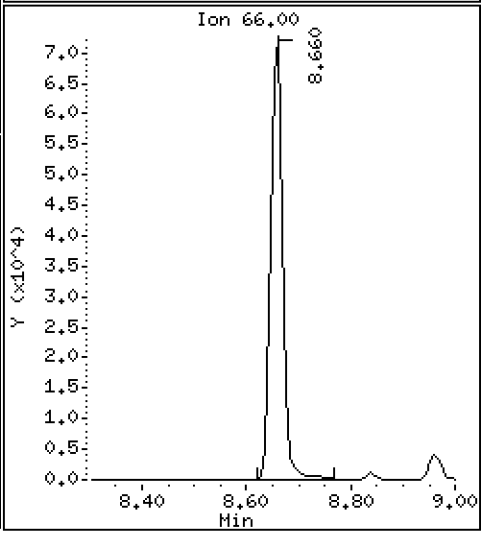


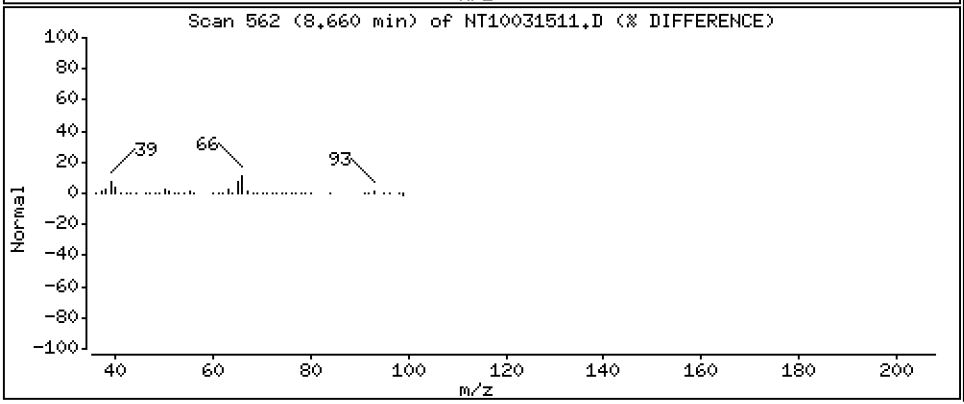












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

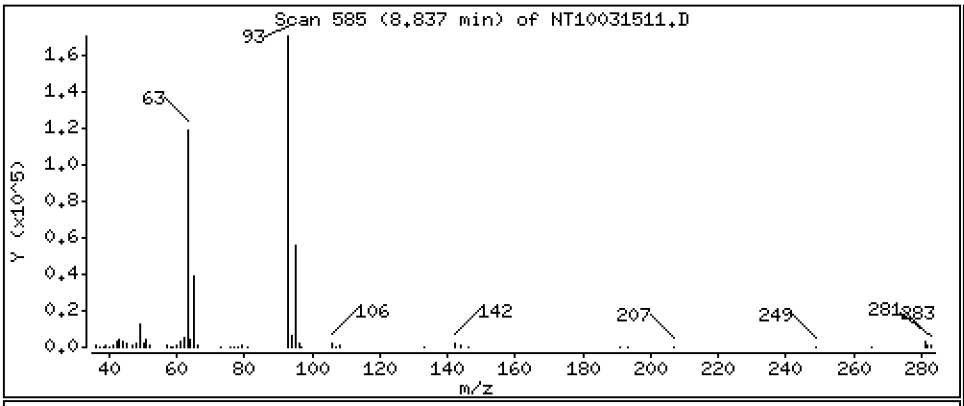
Operator: VTS

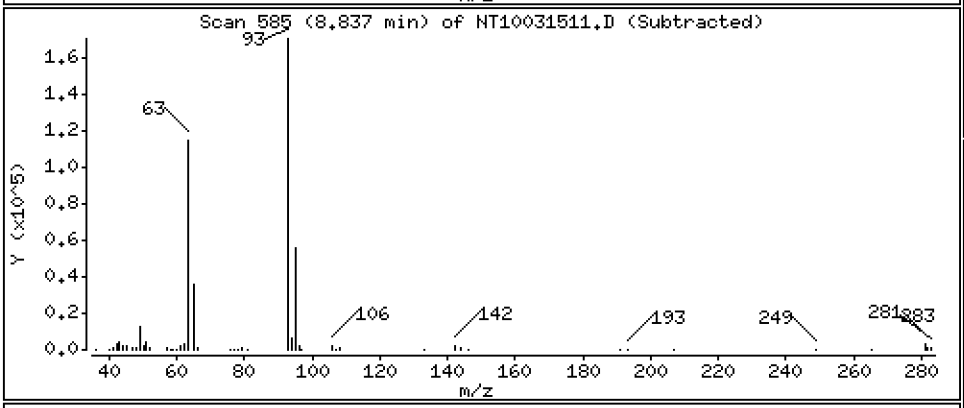
Column phase: ZB-5msi

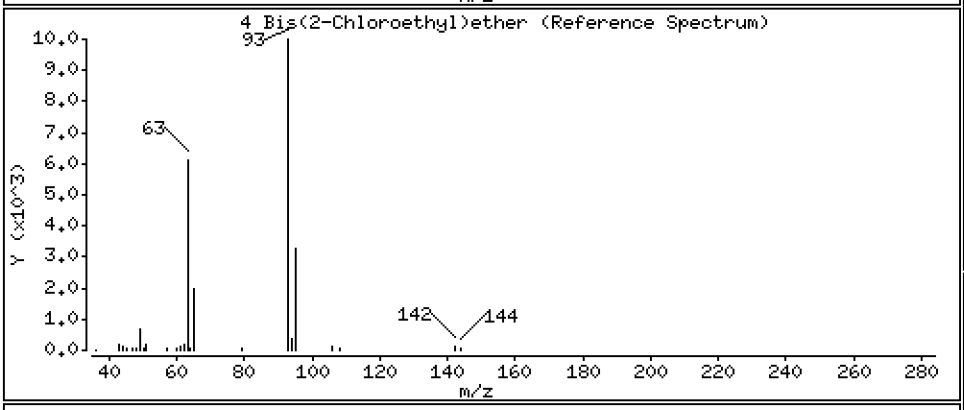
Column diameter: 0.25

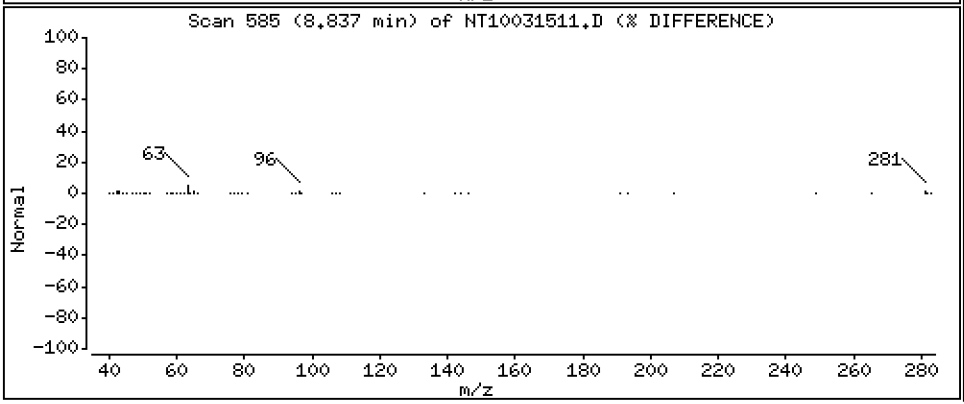
4 Bis(2-Chloroethyl)ether

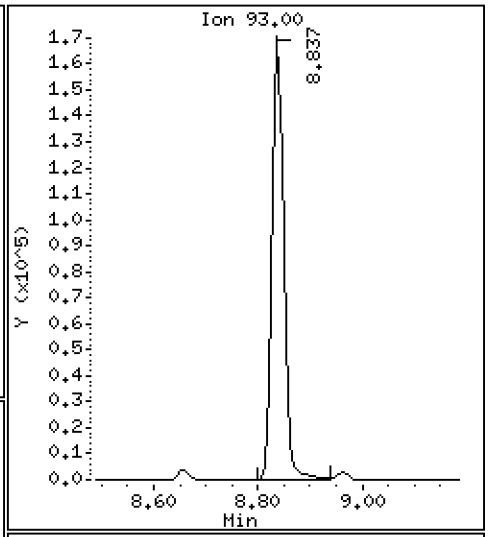
Concentration: 5.258 ug/mL

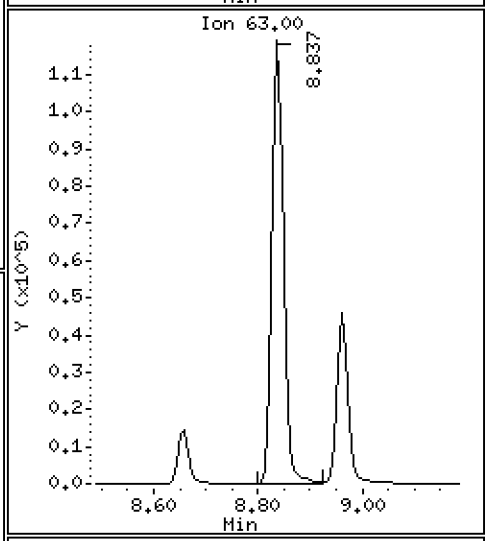


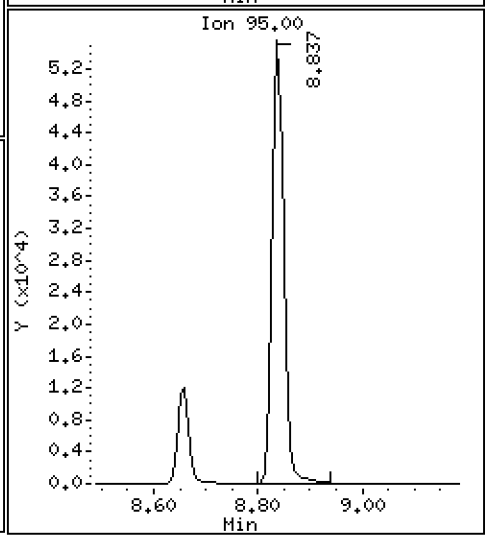












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

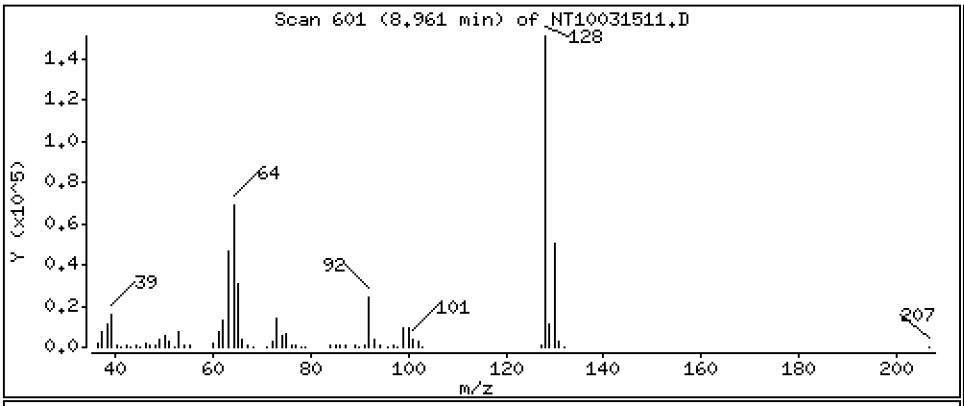
Operator: VTS

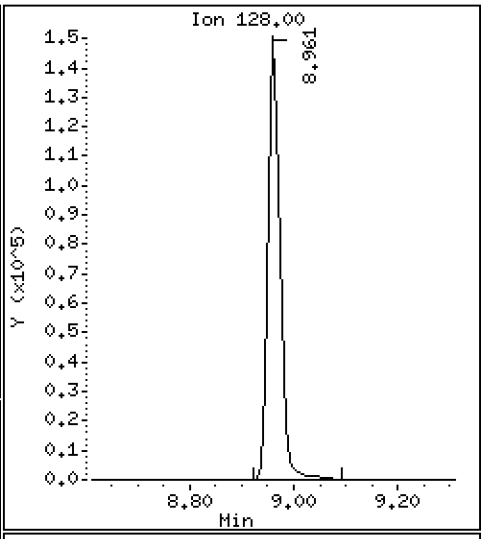
Column phase: ZB-5msi

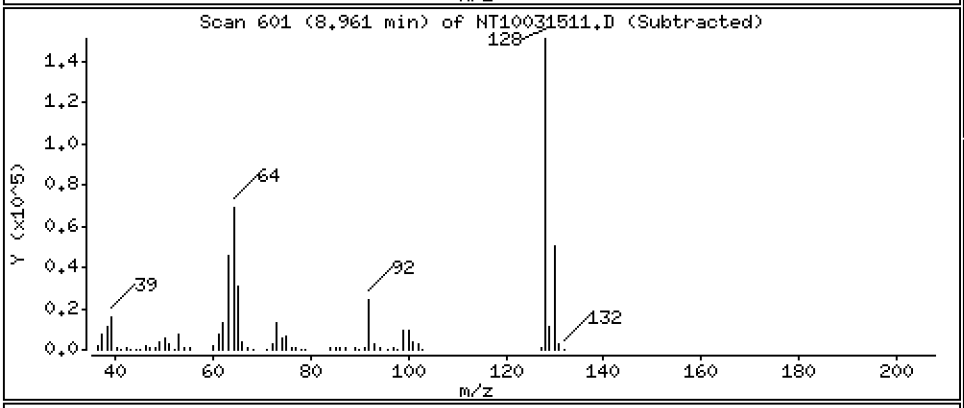
Column diameter: 0.25

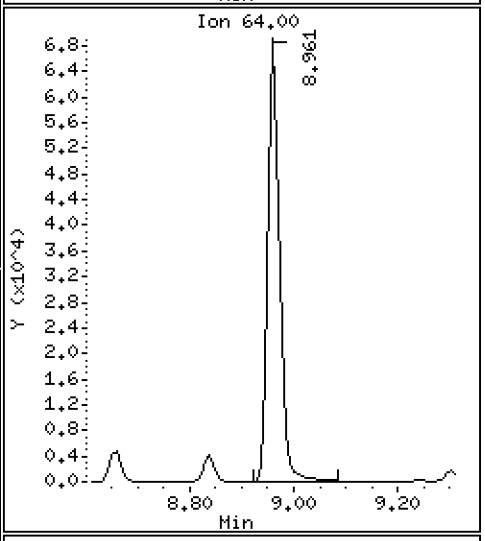
6 2-Chlorophenol

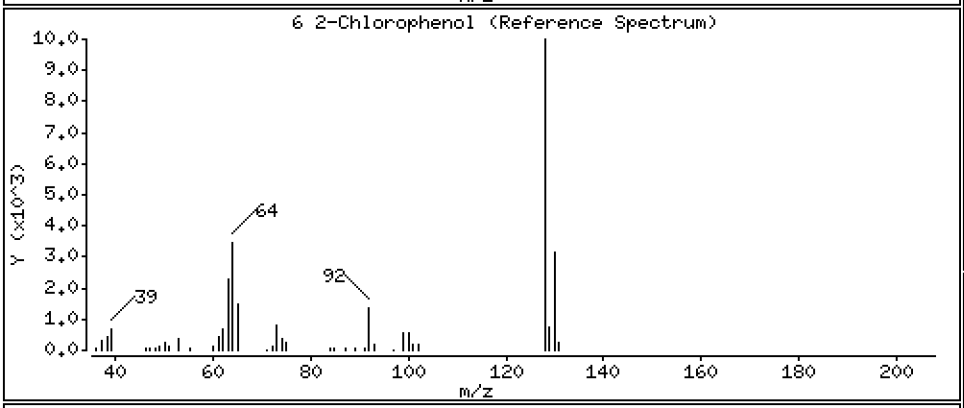
Concentration: 4.277 ug/mL

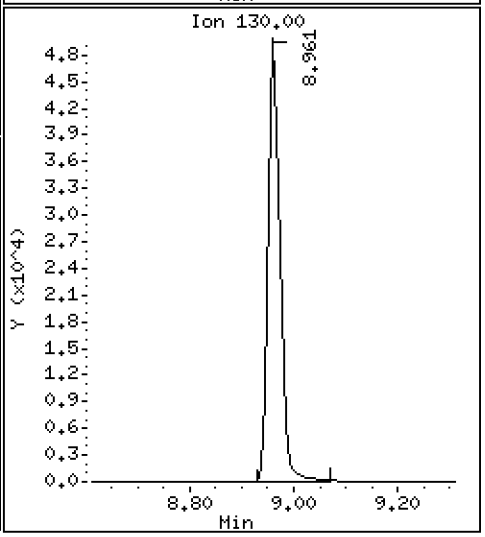


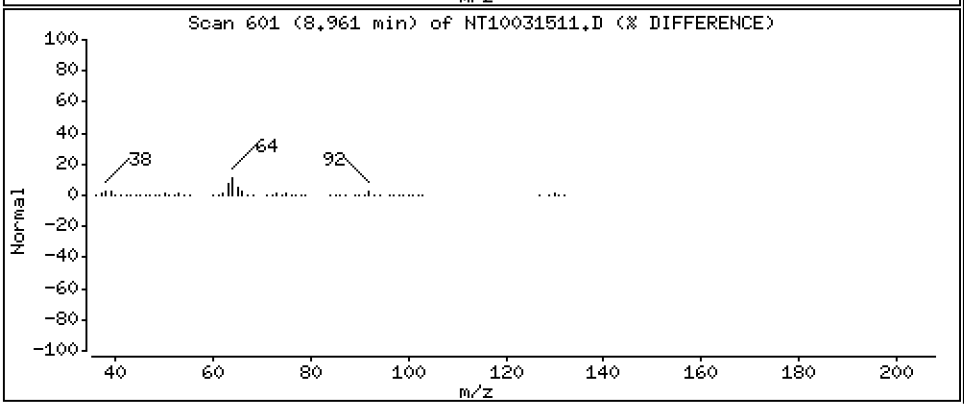












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

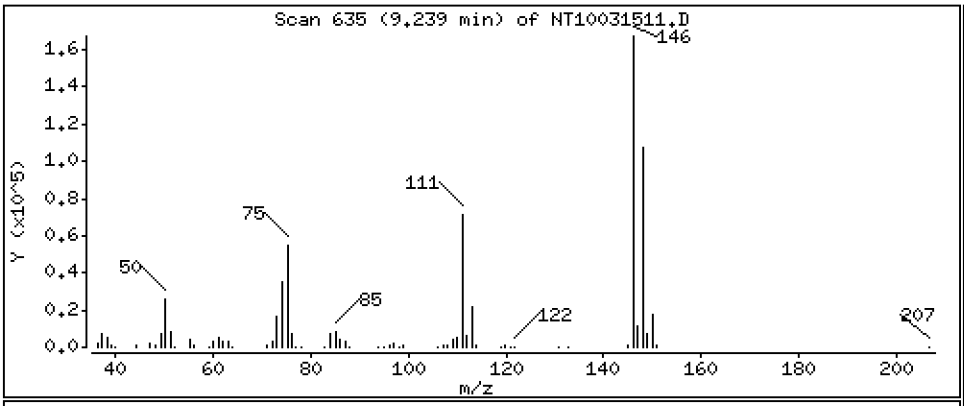
Operator: VTS

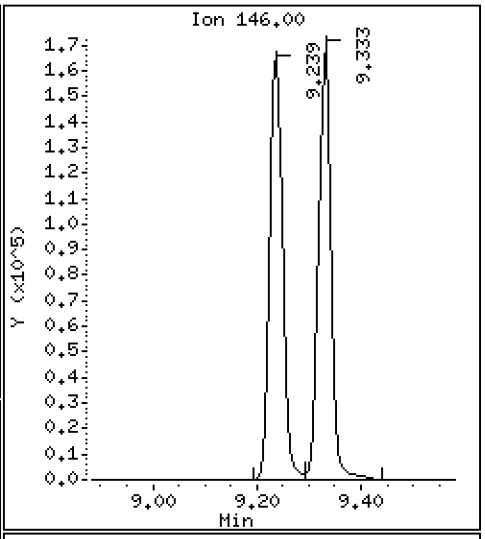
Column phase: ZB-5msi

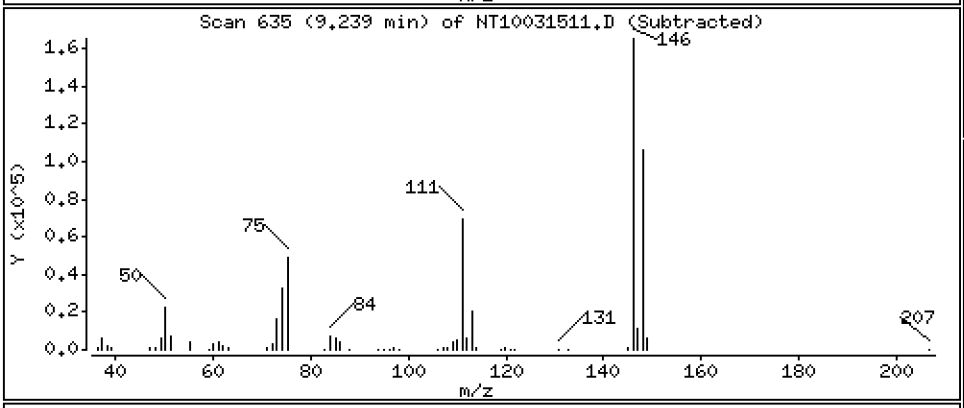
Column diameter: 0.25

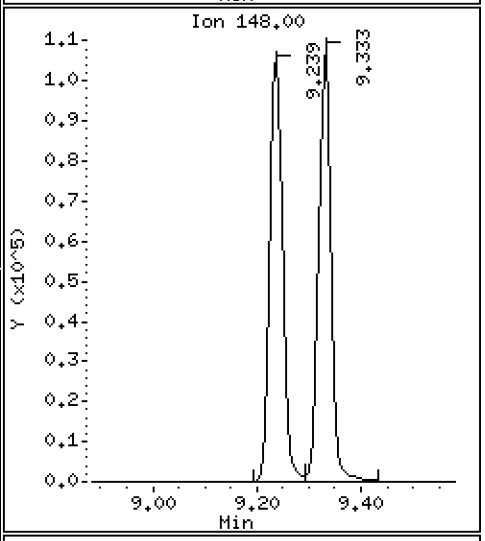
7 1,3-Dichlorobenzene

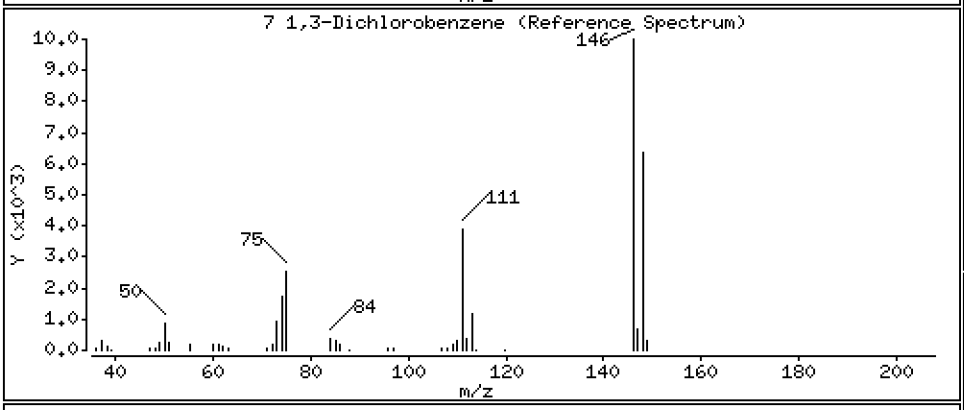
Concentration: 4.772 ug/mL

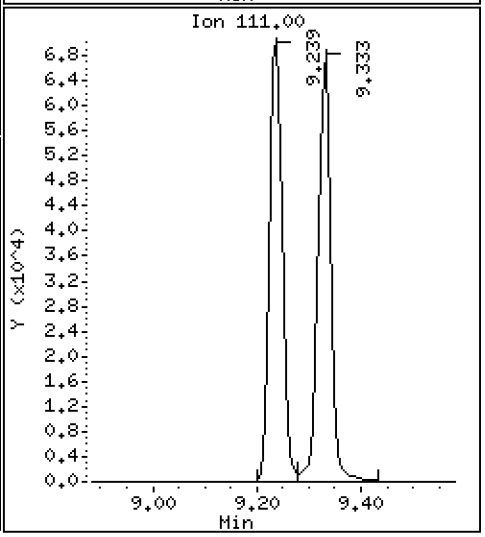


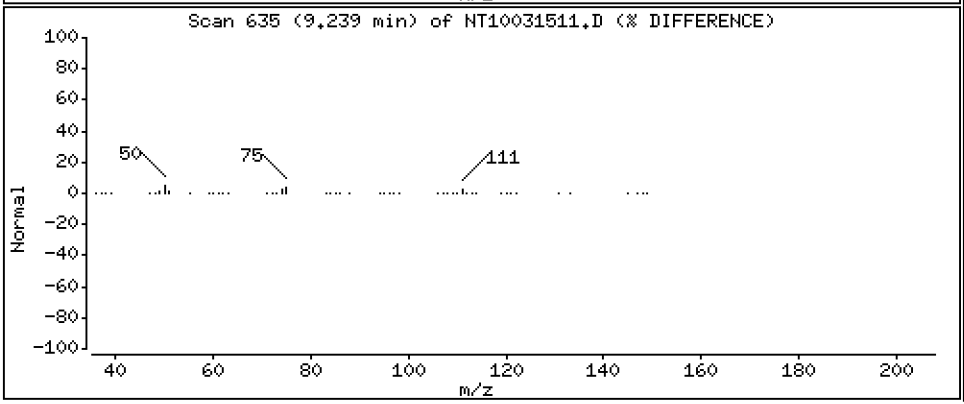












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

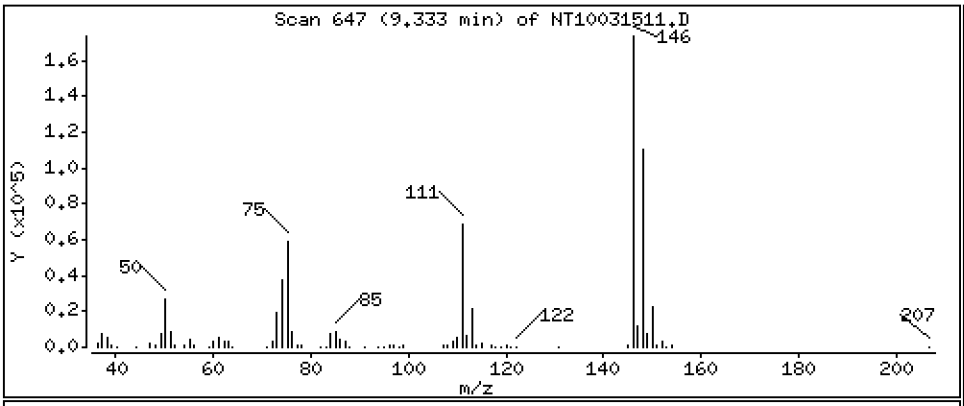
Operator: VTS

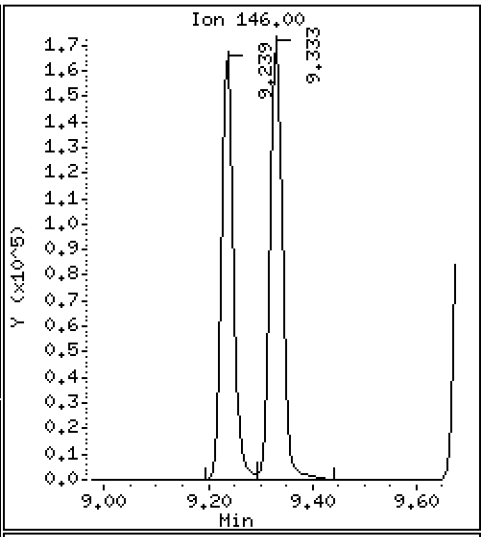
Column phase: ZB-5msi

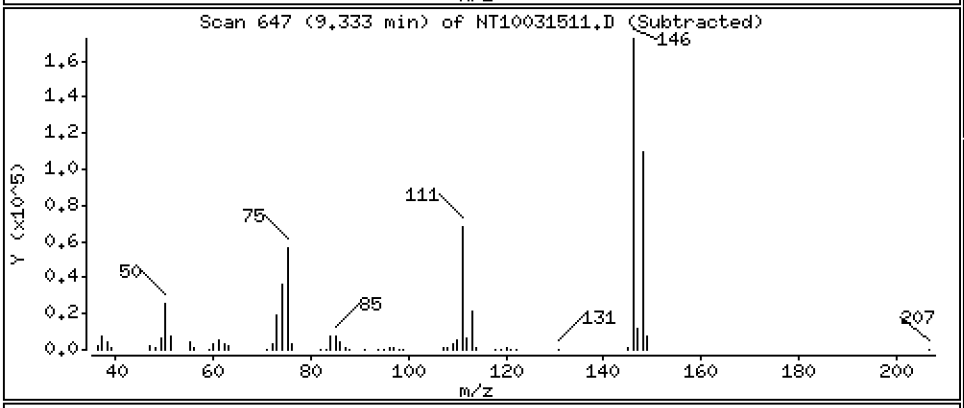
Column diameter: 0.25

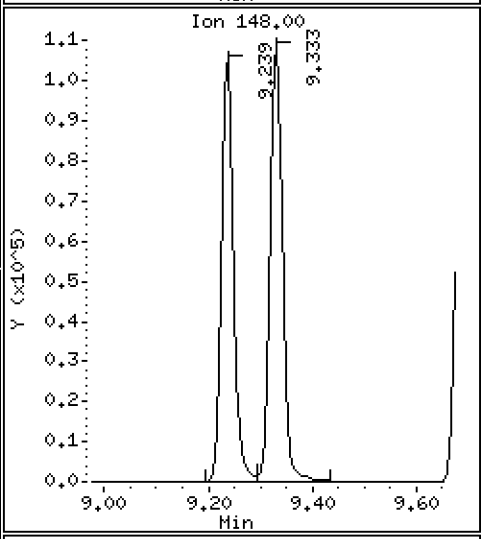
9 1,4-Dichlorobenzene

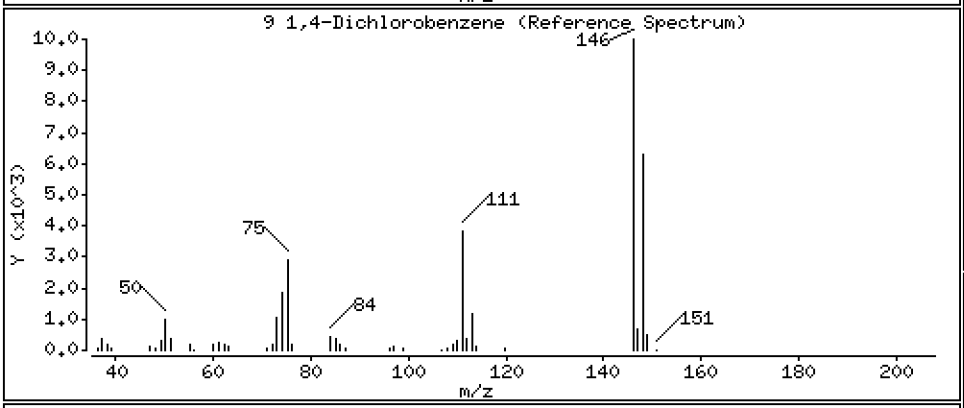
Concentration: 4.913 ug/mL

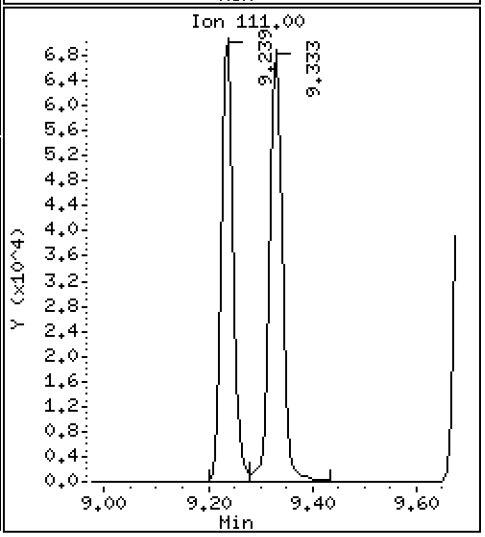


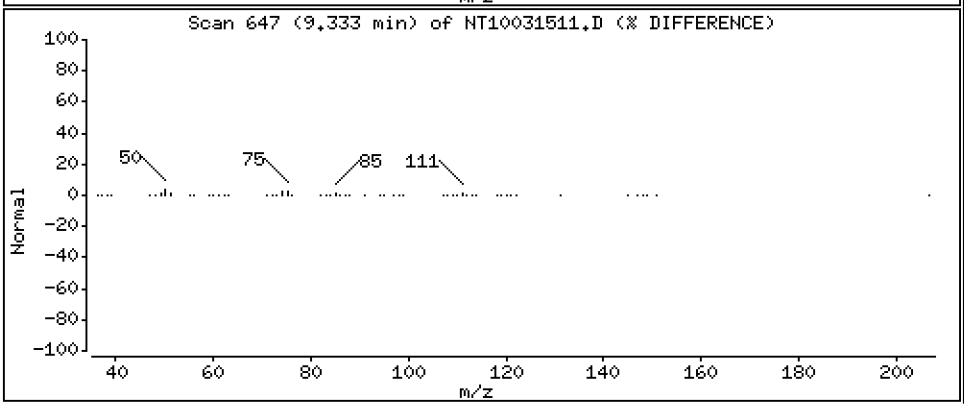












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

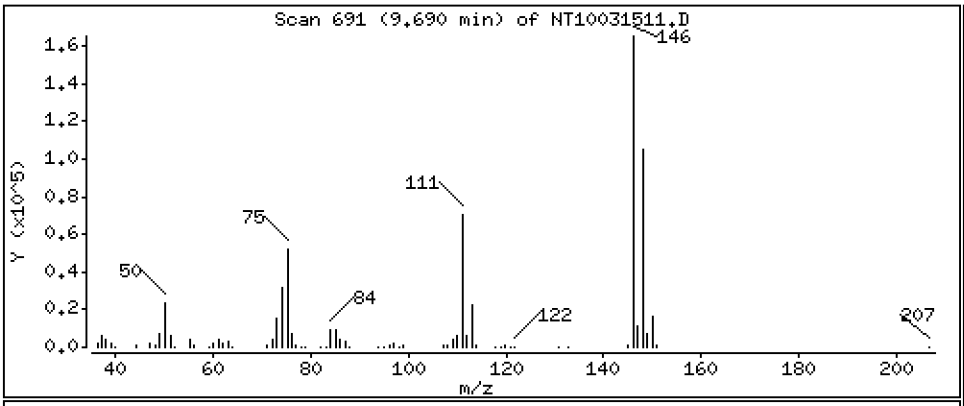
Operator: VTS

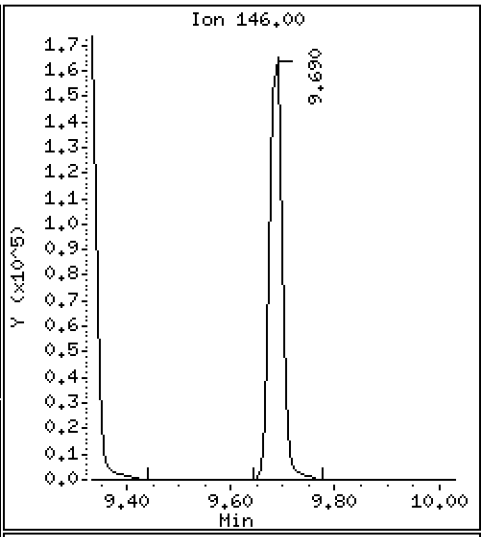
Column phase: ZB-5msi

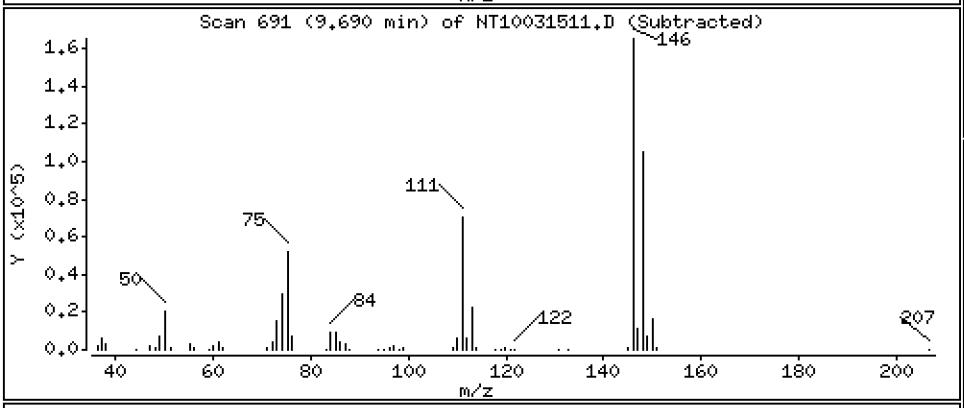
Column diameter: 0.25

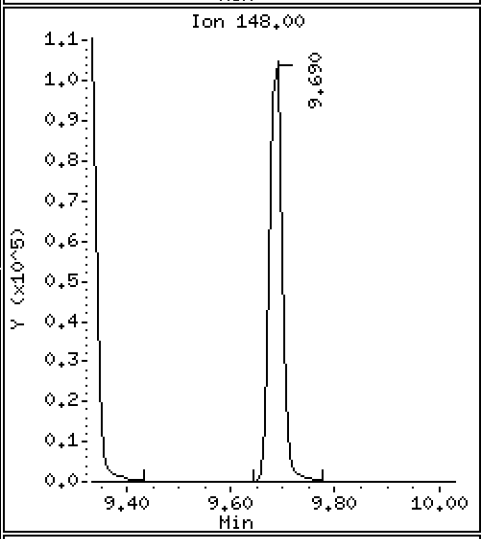
12 1,2-Dichlorobenzene

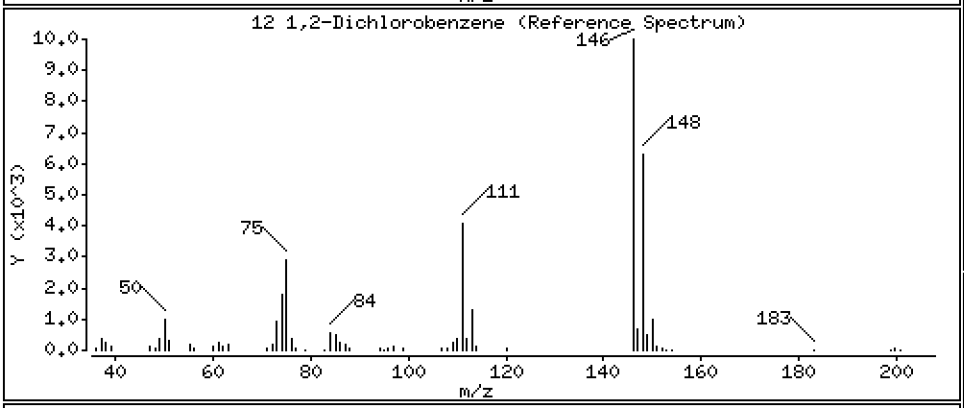
Concentration: 4.882 ug/mL

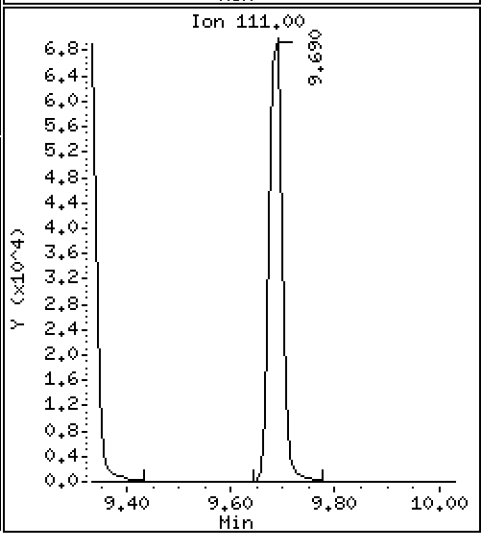


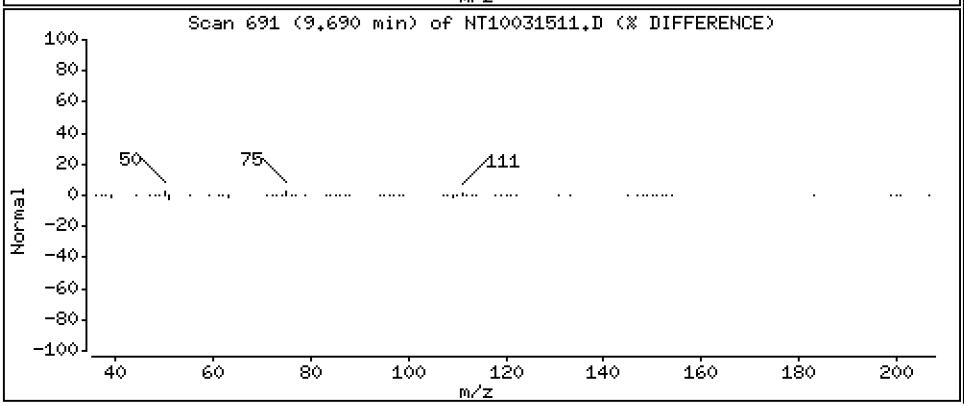












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

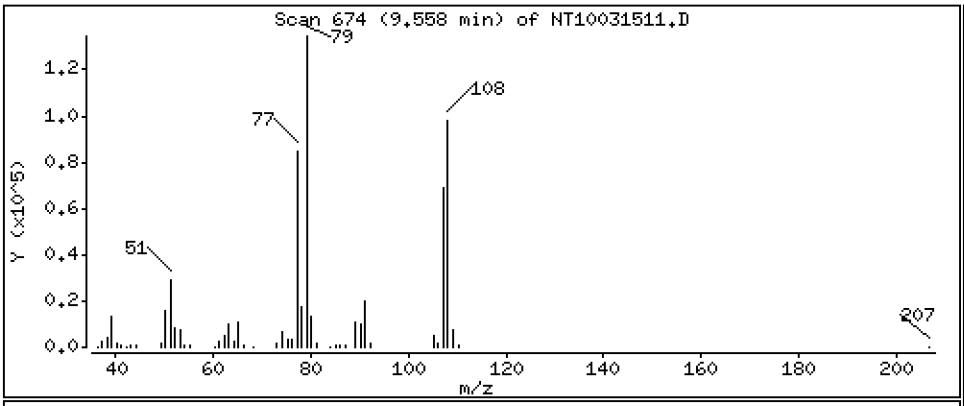
Operator: VTS

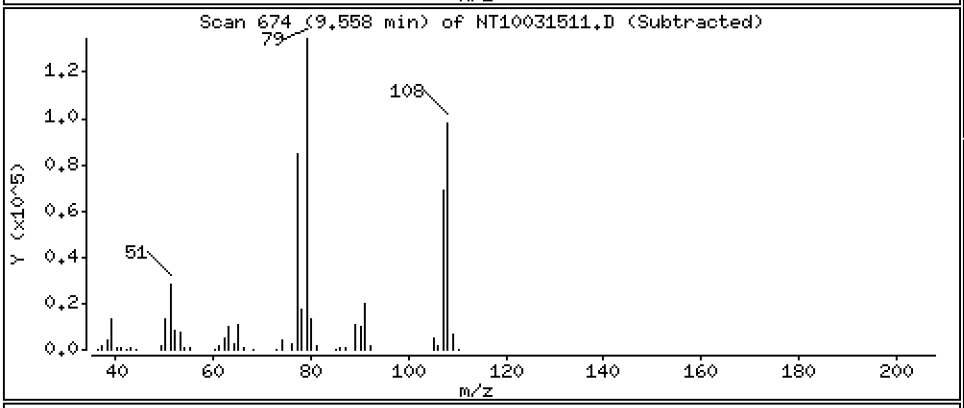
Column phase: ZB-5msi

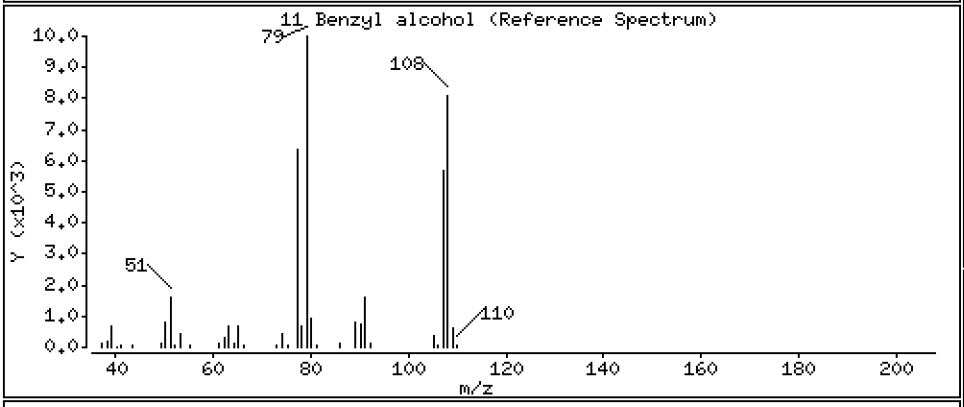
Column diameter: 0.25

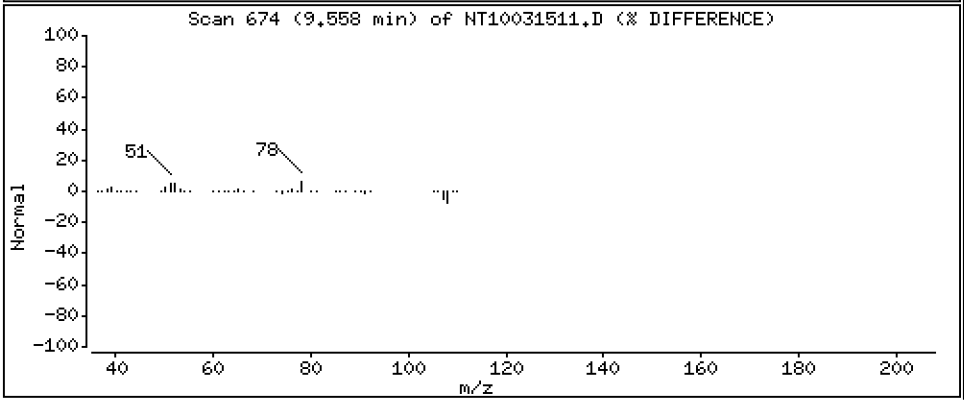
11 Benzyl alcohol

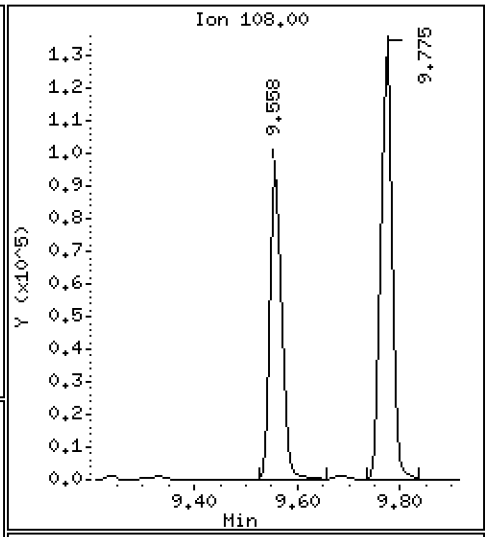
Concentration: 4.927 ug/mL

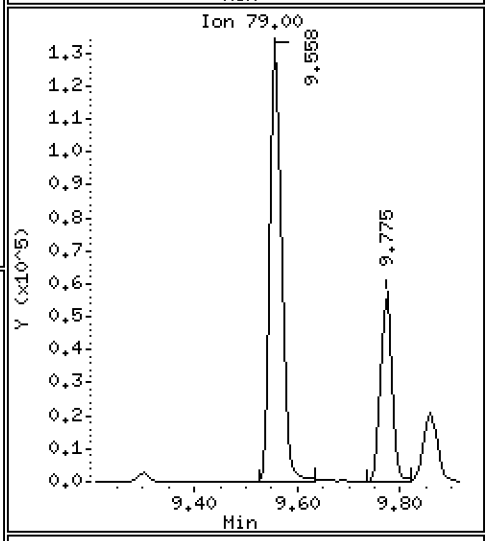


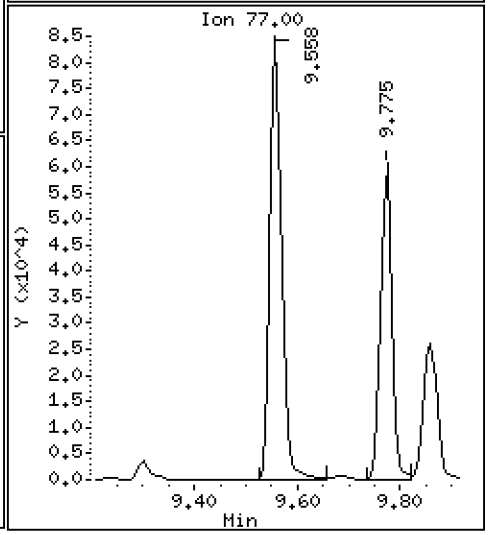












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

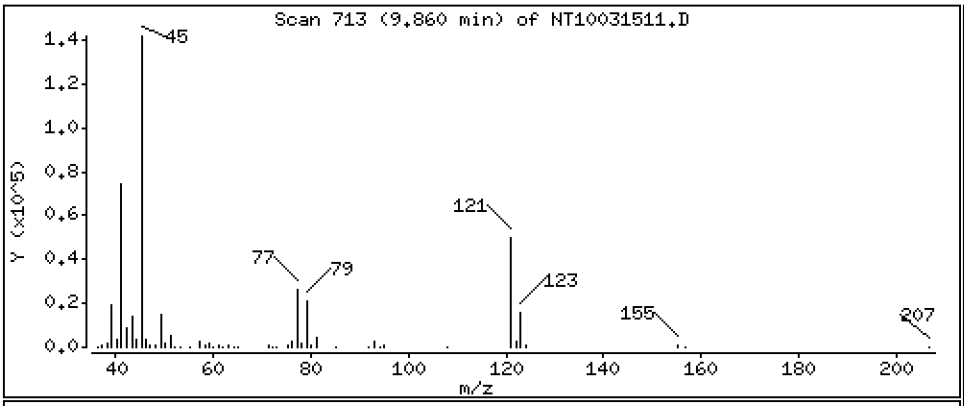
Operator: VTS

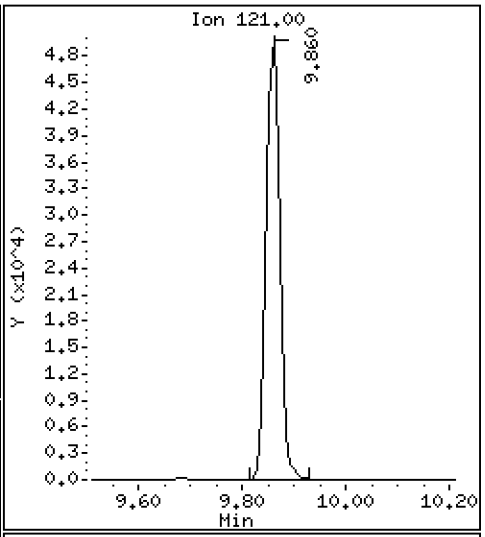
Column phase: ZB-5msi

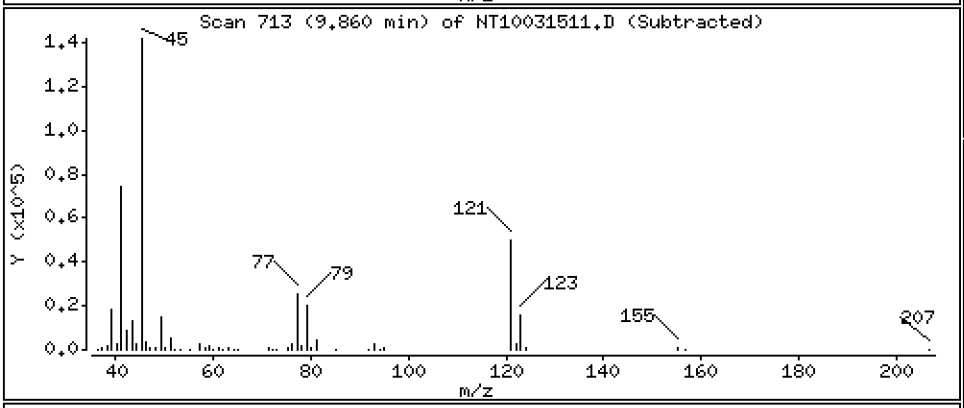
Column diameter: 0.25

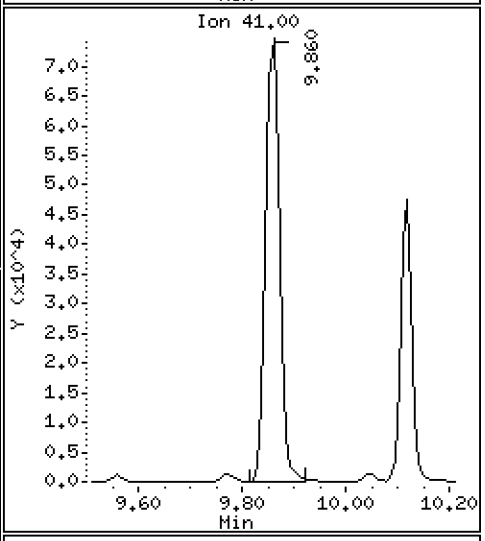
14 2,2'-oxybis(1-Chloropropane)

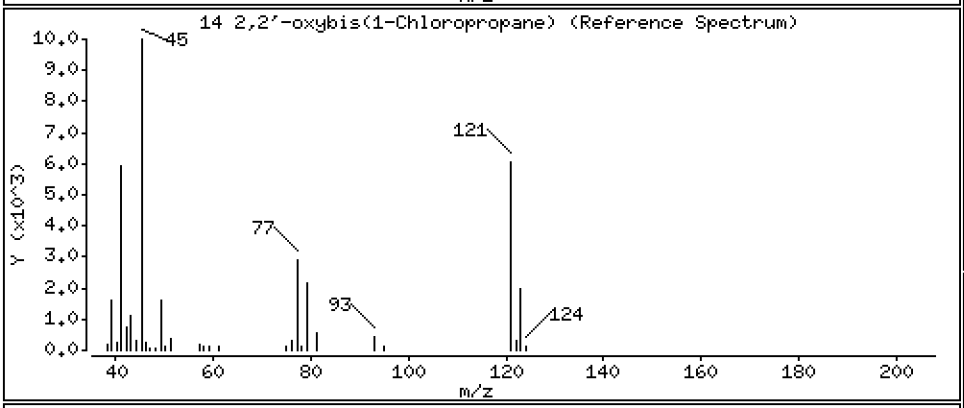
Concentration: 6.214 ug/mL

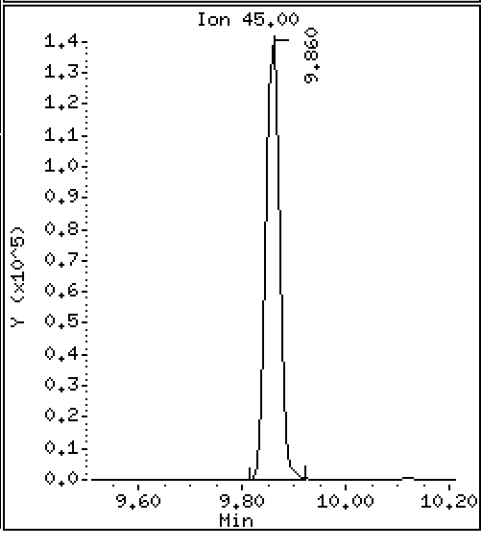


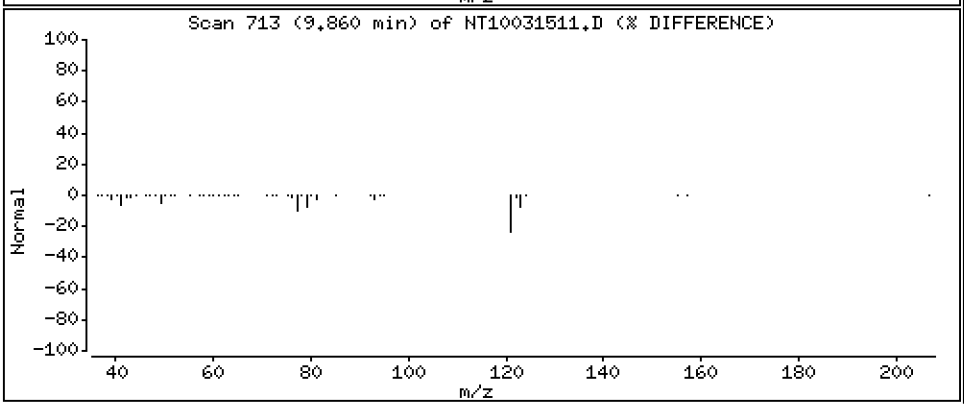












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

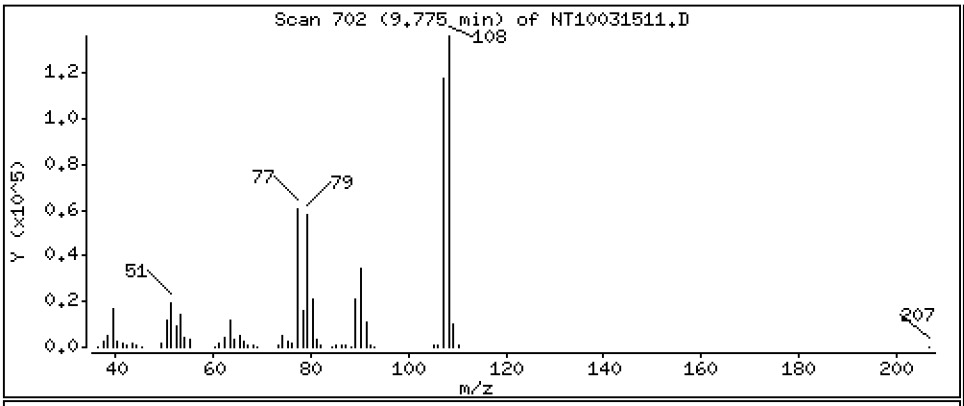
Operator: VTS

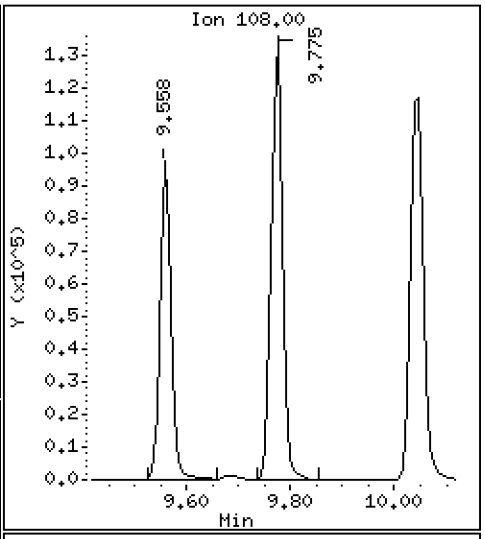
Column phase: ZB-5msi

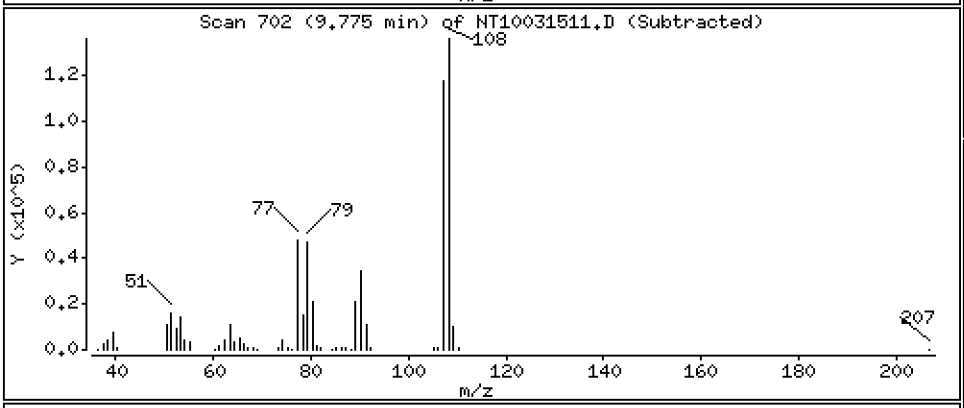
Column diameter: 0.25

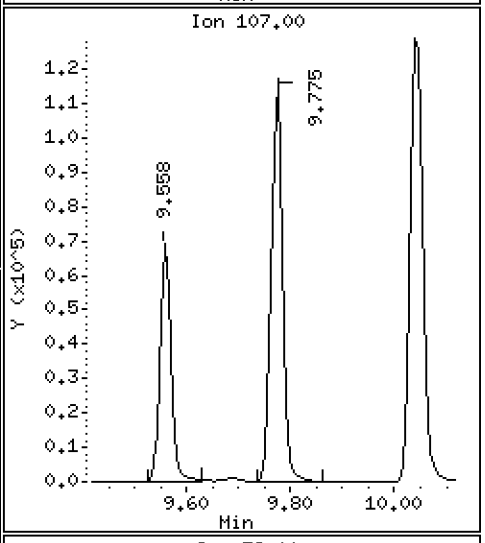
13 2-Methylphenol

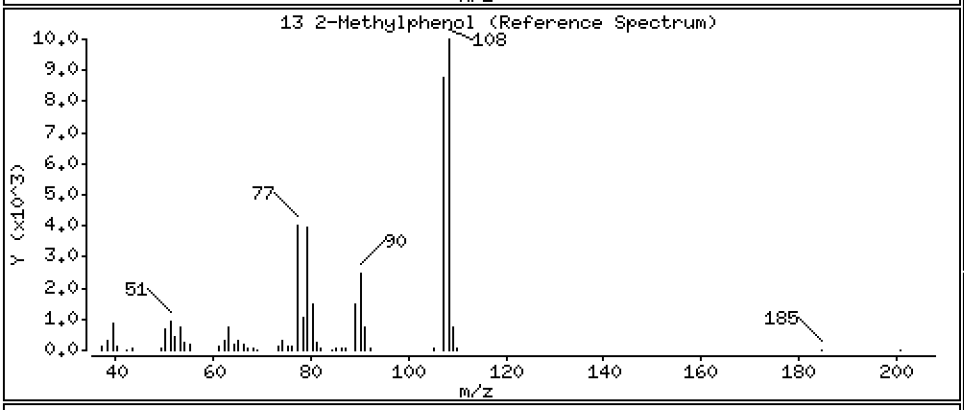
Concentration: 4.215 ug/mL

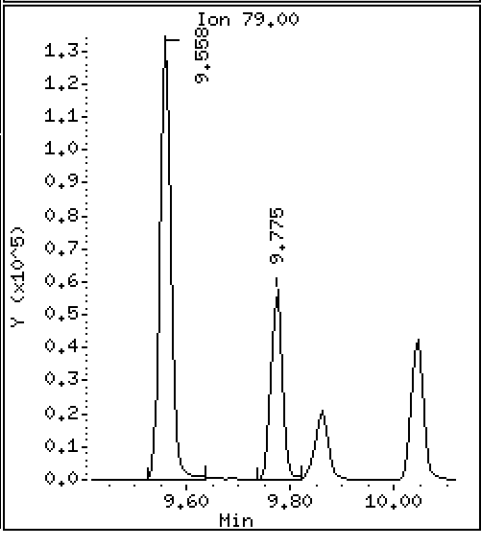


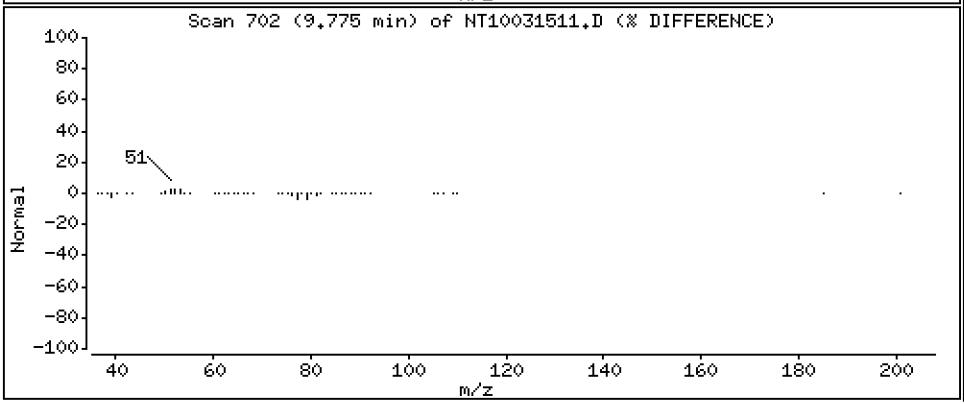












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

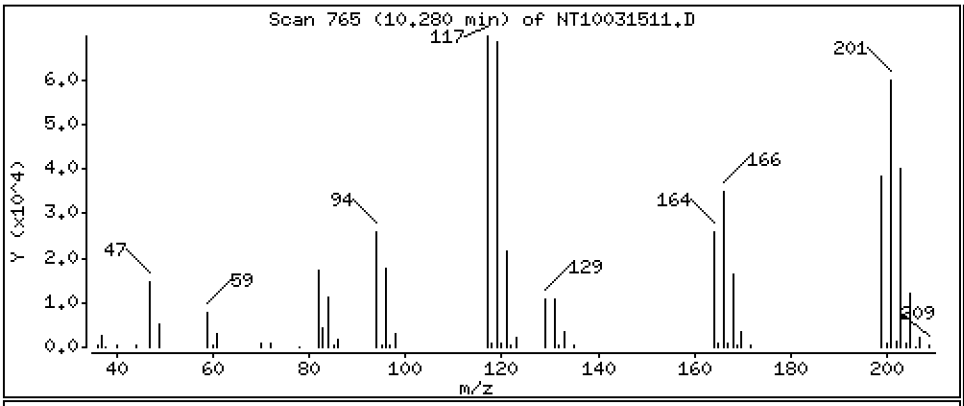
Operator: VTS

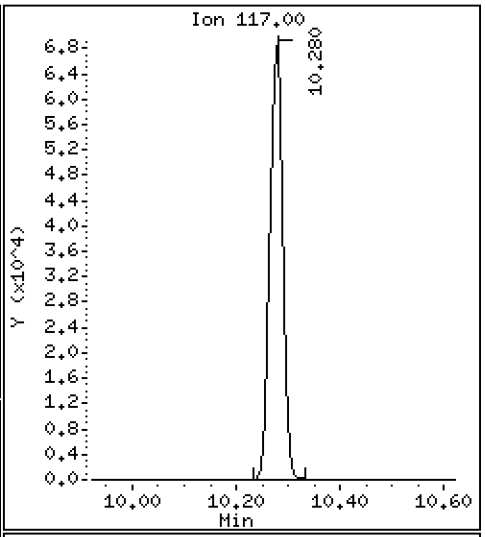
Column phase: ZB-5msi

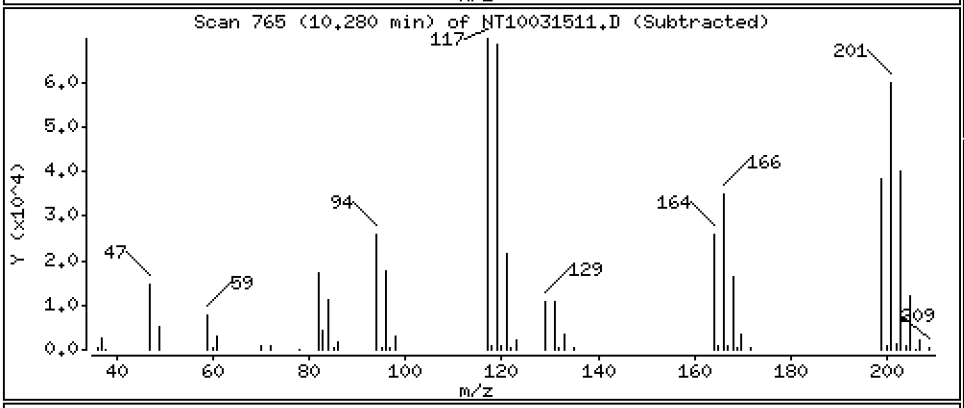
Column diameter: 0.25

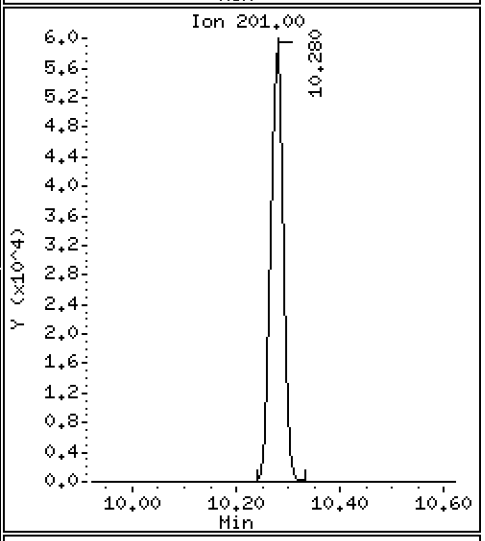
17 Hexachloroethane

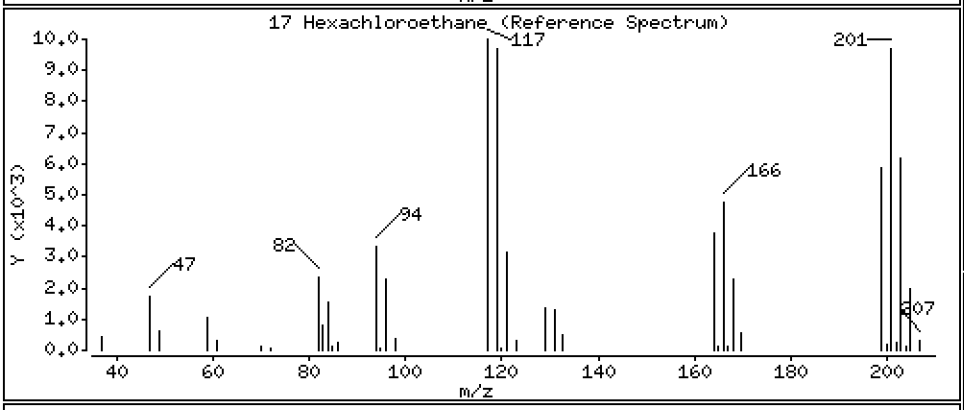
Concentration: 5.003 ug/mL

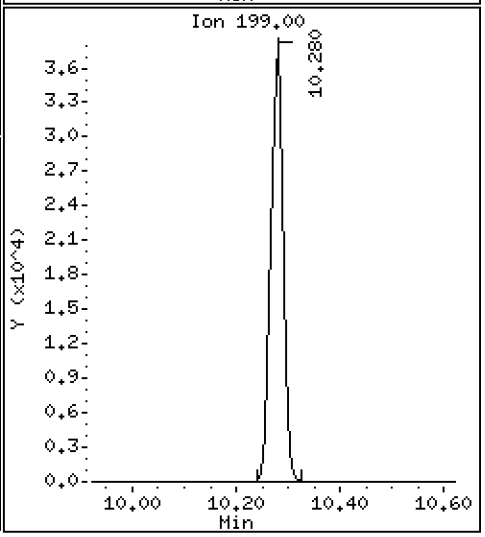


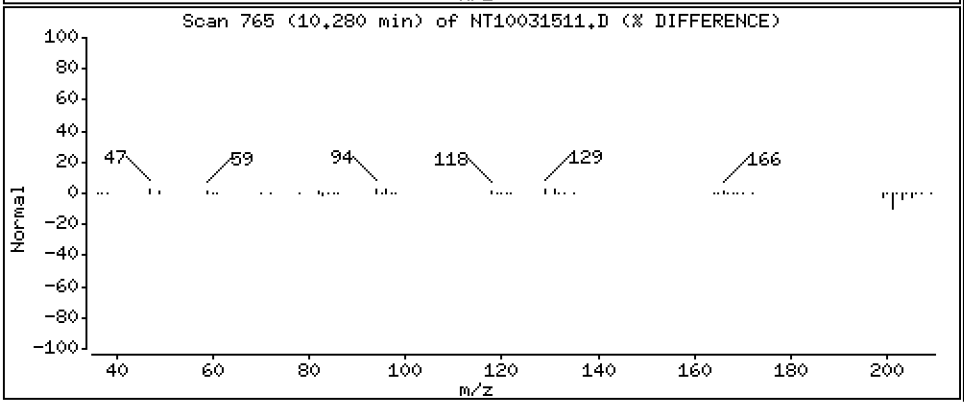












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

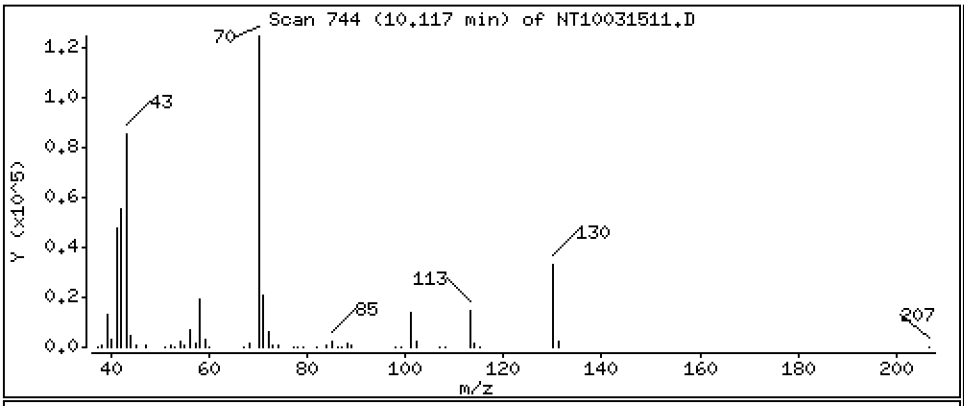
Operator: VTS

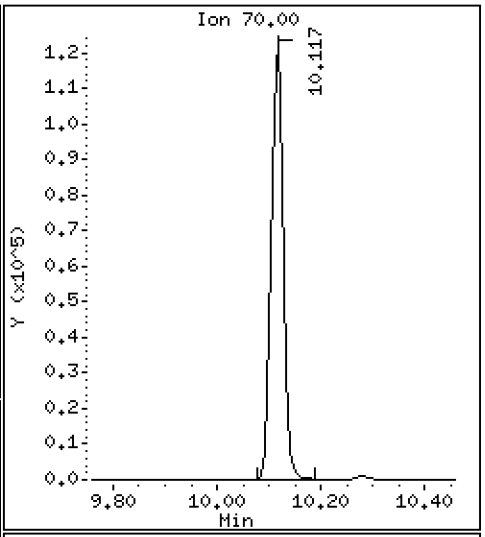
Column phase: ZB-5msi

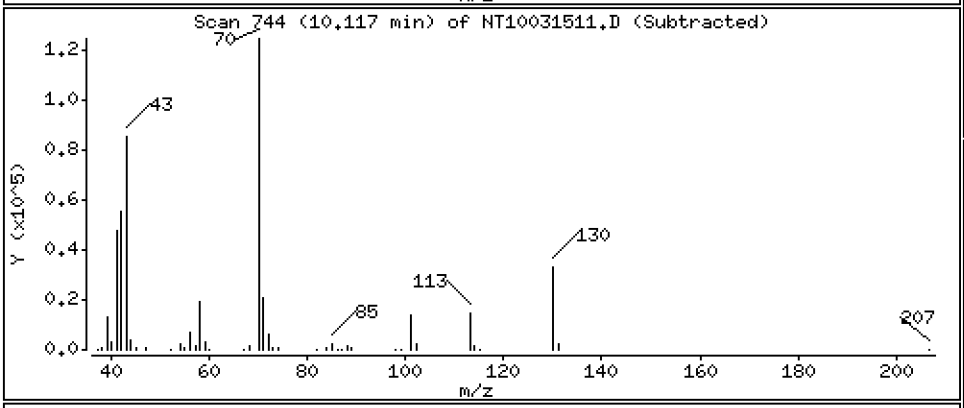
Column diameter: 0.25

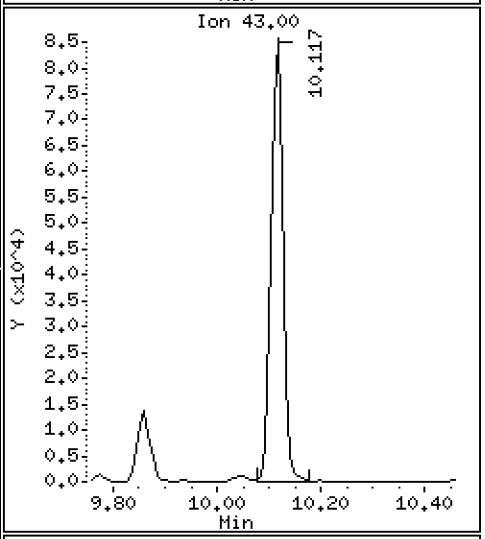
16 N-Nitroso-di-n-propylamine

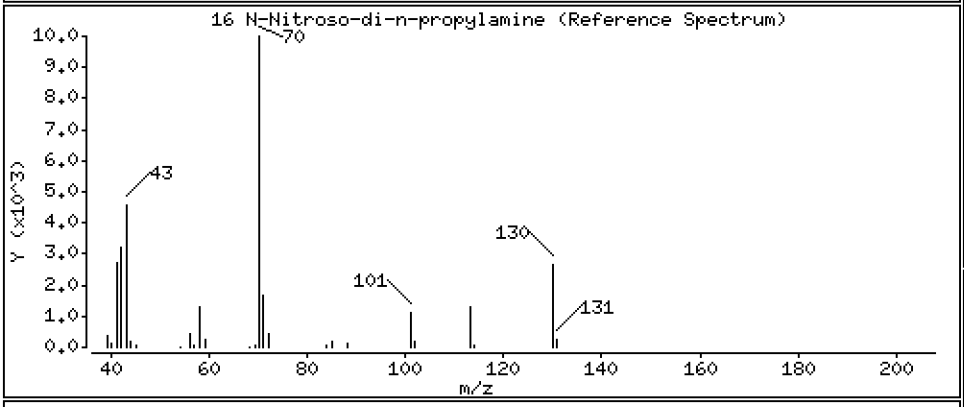
Concentration: 5.179 ug/mL

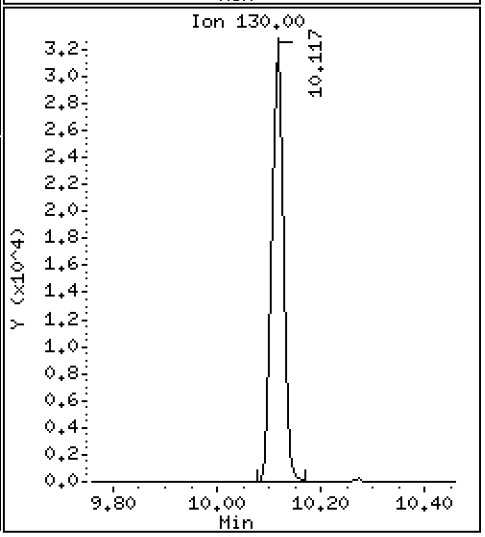


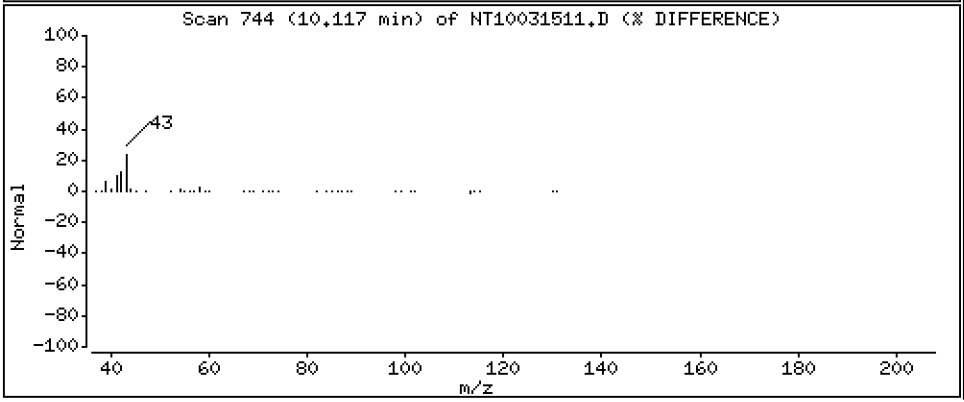












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

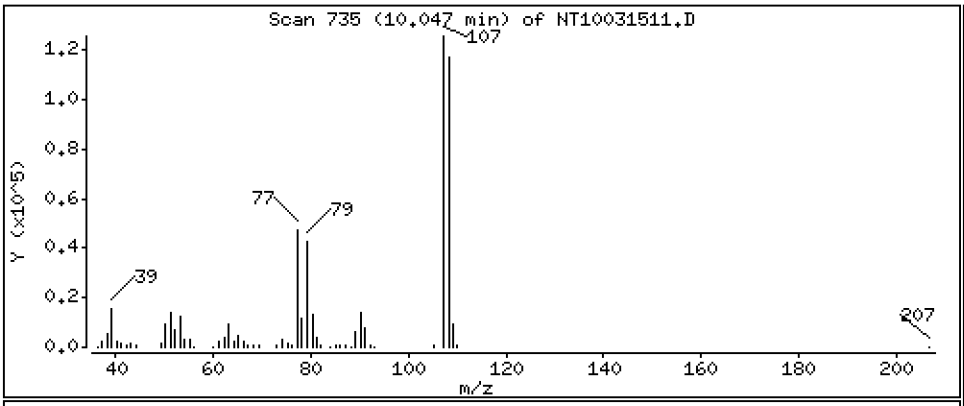
Operator: VTS

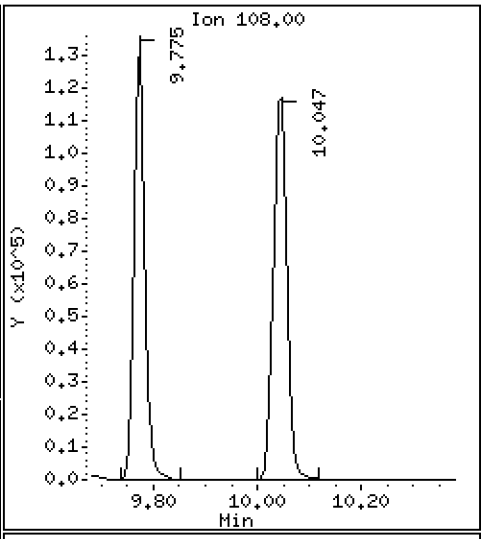
Column phase: ZB-5msi

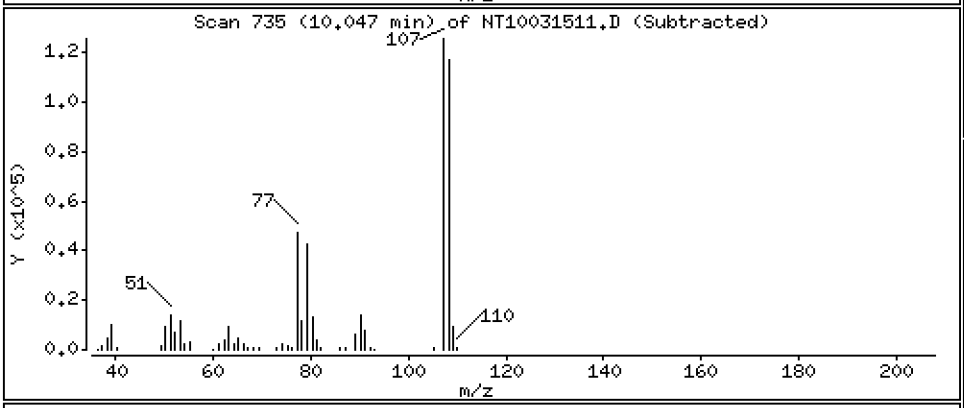
Column diameter: 0.25

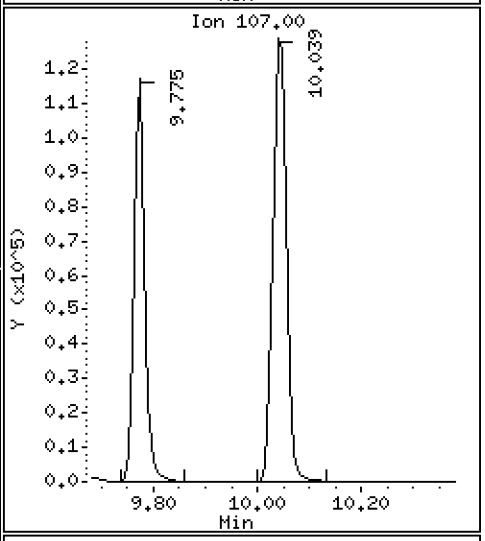
15 4-Methylphenol

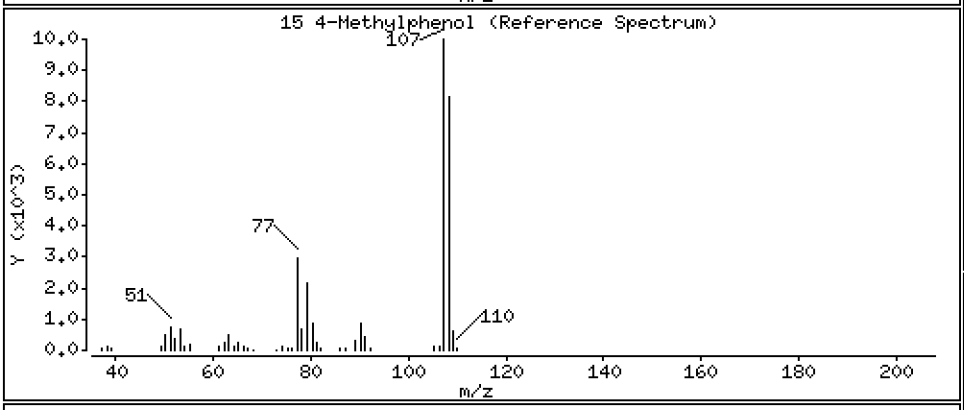
Concentration: 4.365 ug/mL

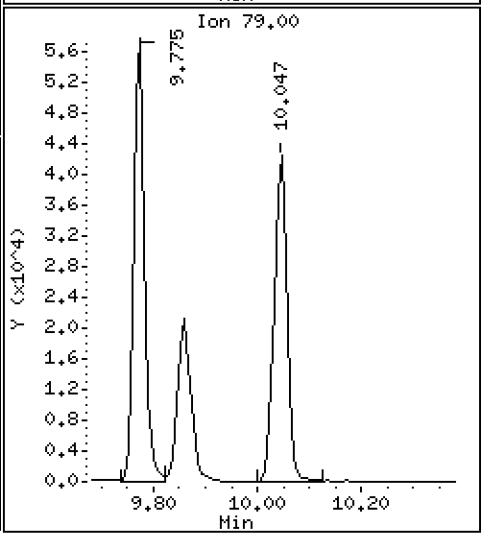


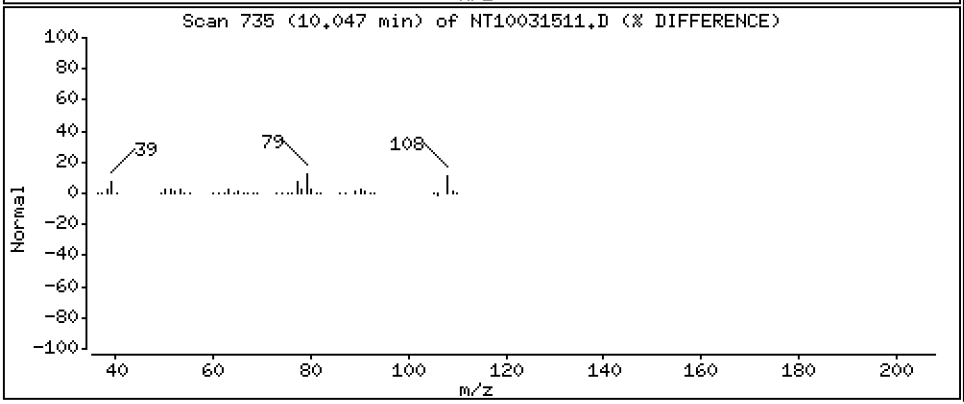












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

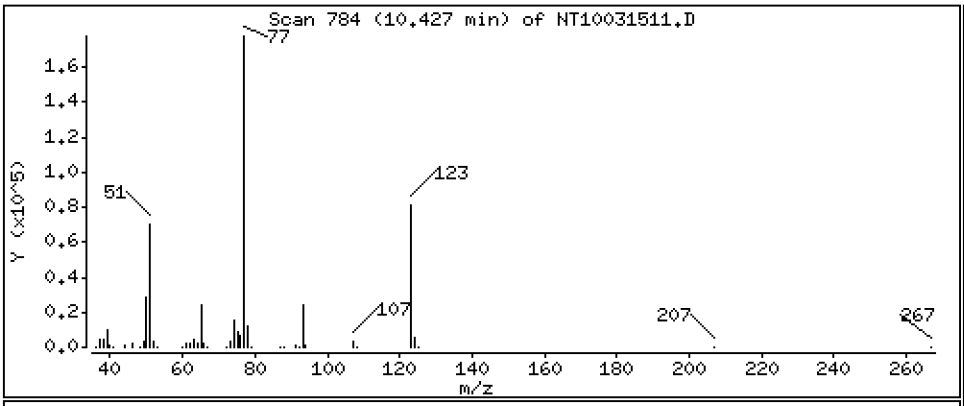
Operator: VTS

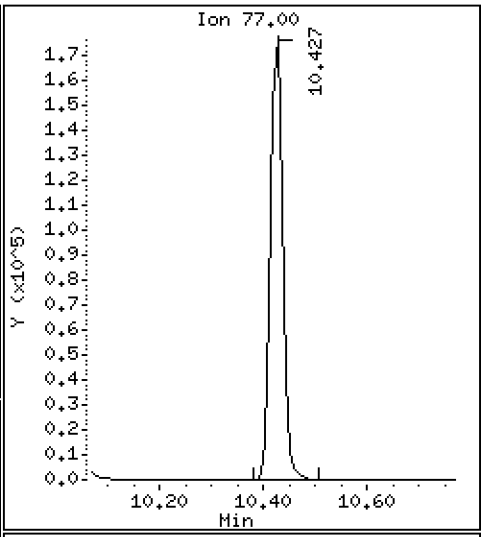
Column phase: ZB-5msi

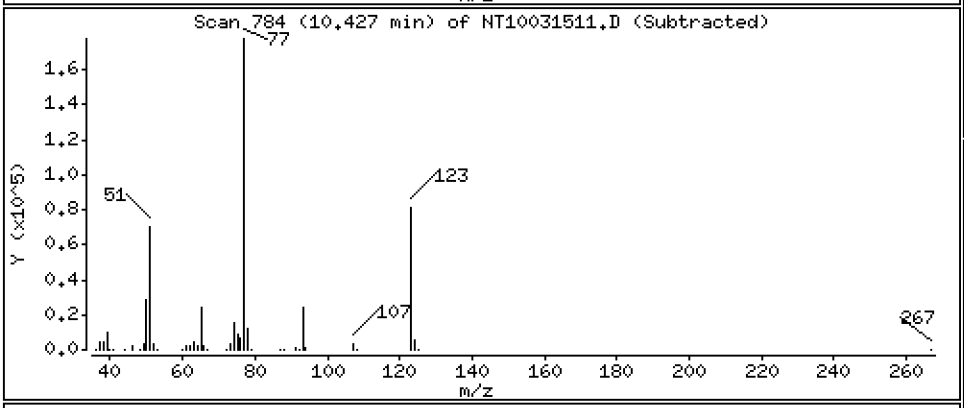
Column diameter: 0.25

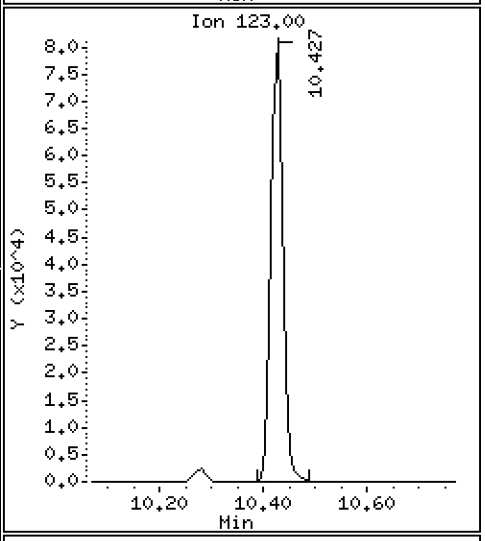
19 Nitrobenzene

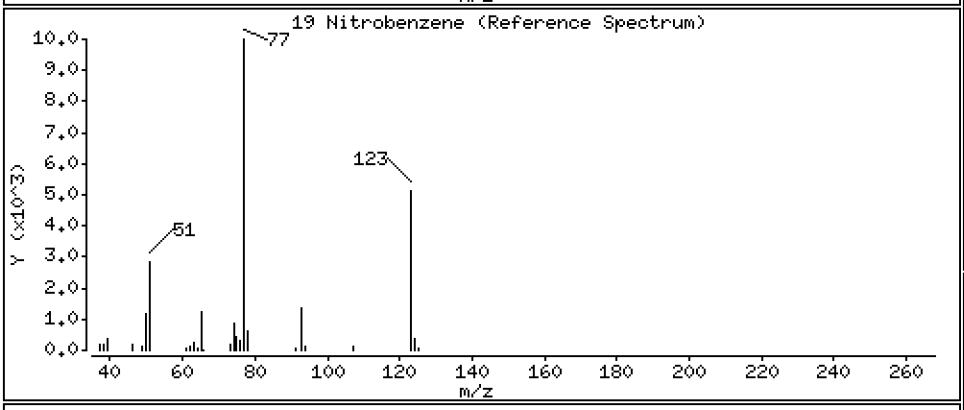
Concentration: 4.858 ug/mL

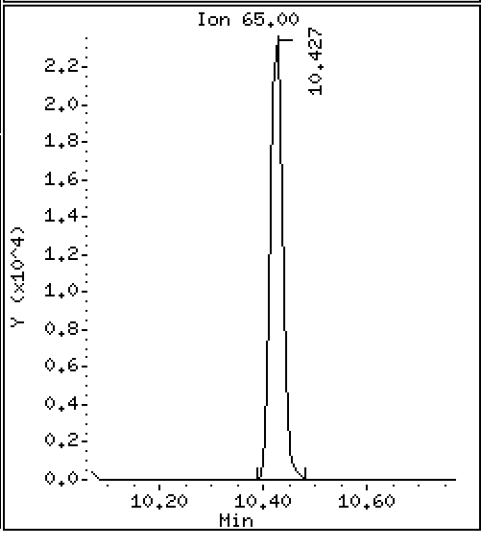


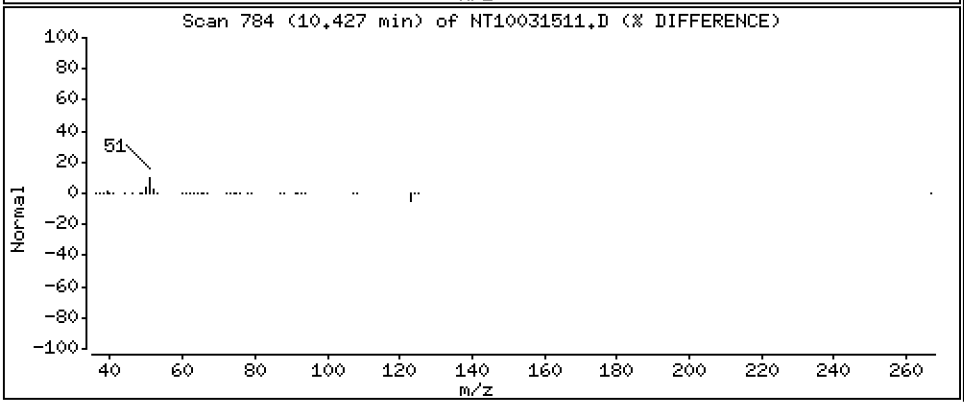












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

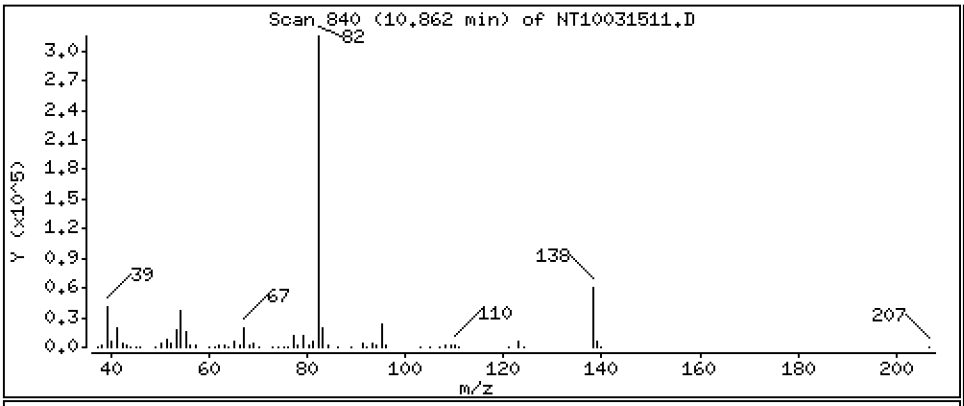
Operator: VTS

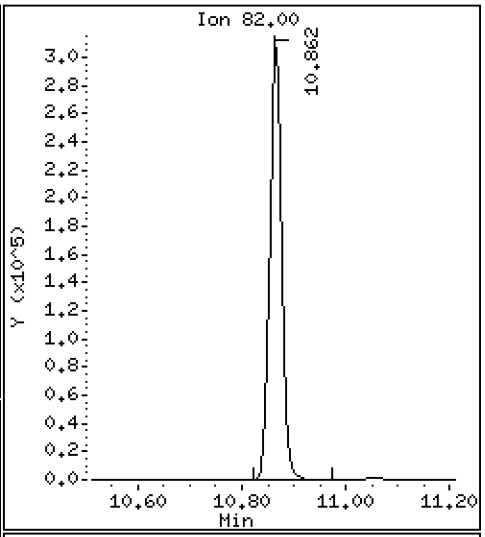
Column phase: ZB-5msi

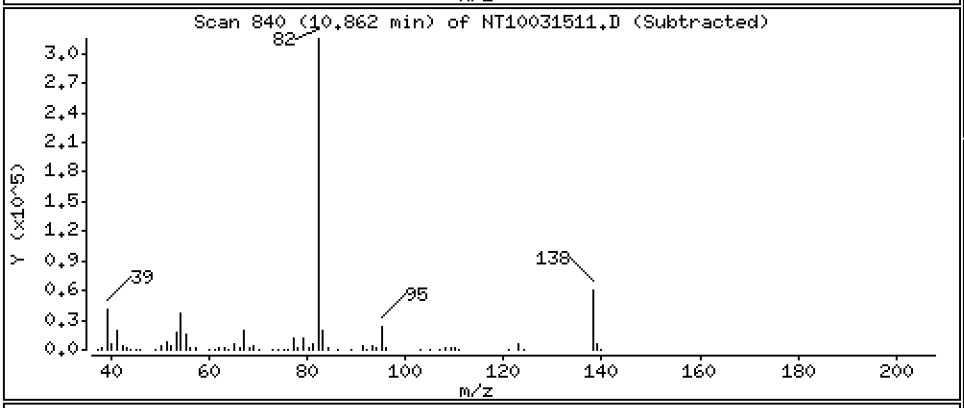
Column diameter: 0.25

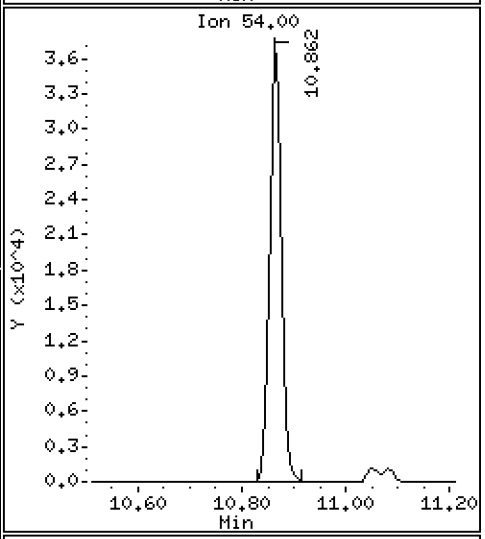
20 Isophorone

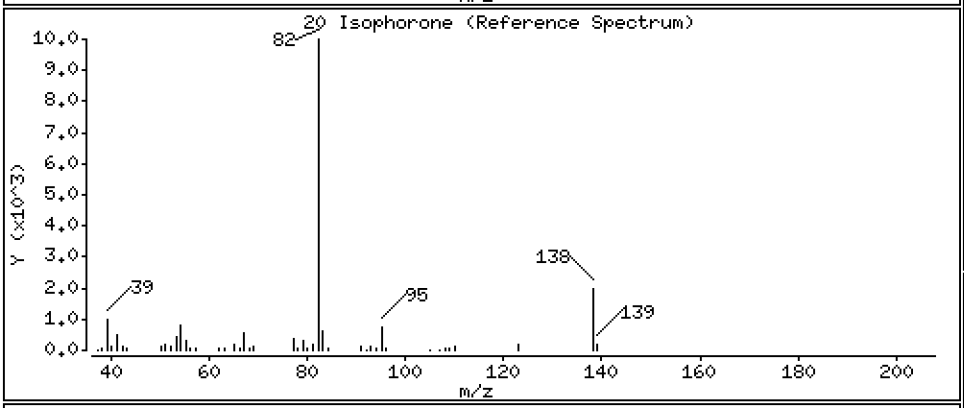
Concentration: 7.696 ug/mL

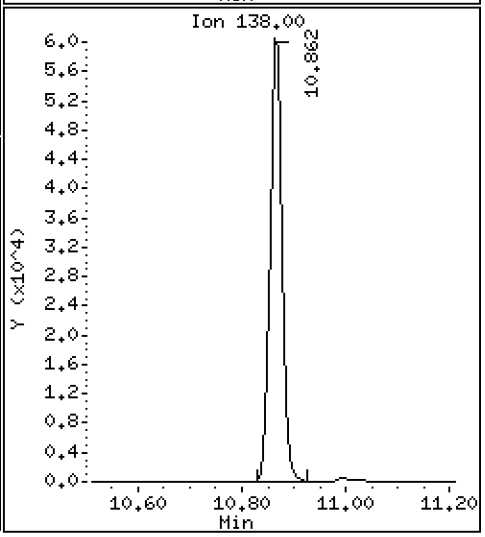


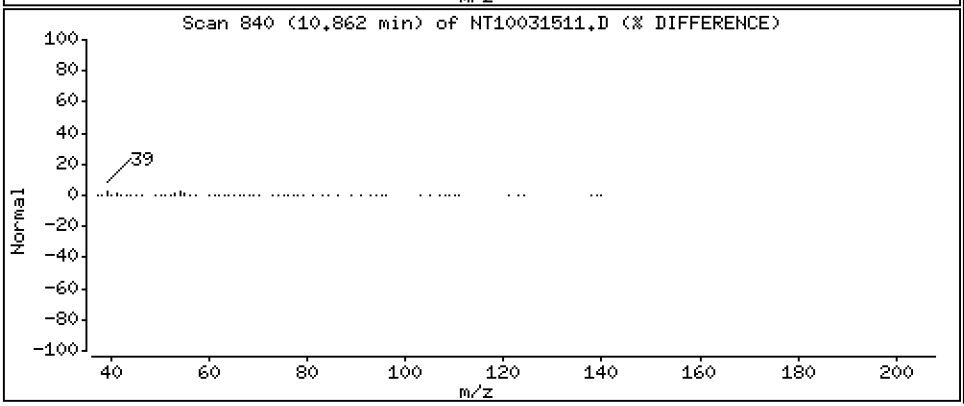












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

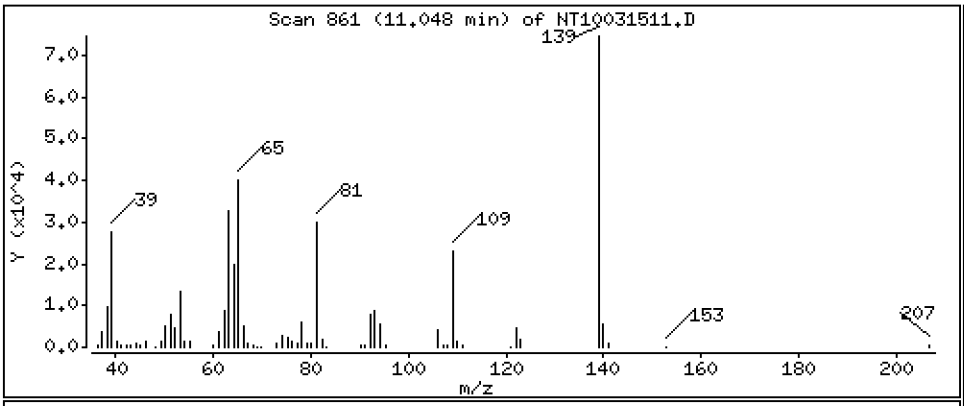
Operator: VTS

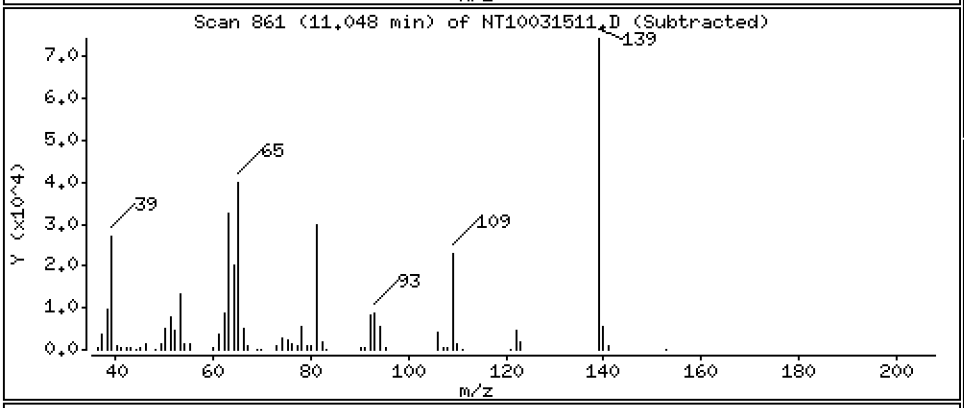
Column phase: ZB-5msi

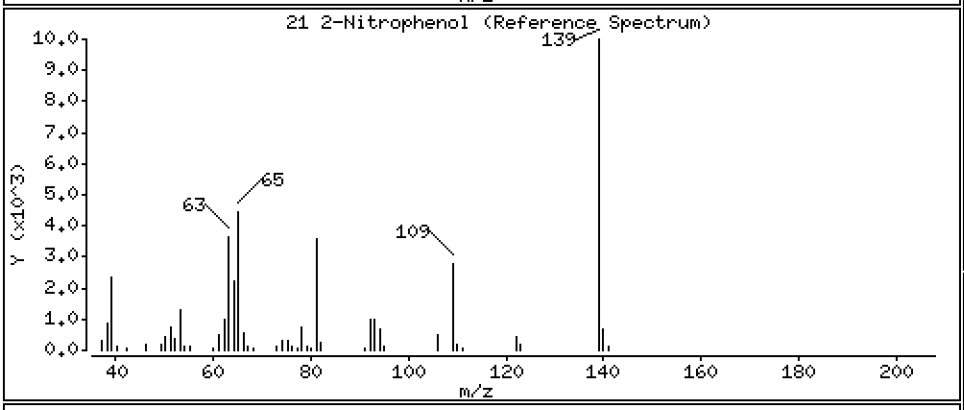
Column diameter: 0.25

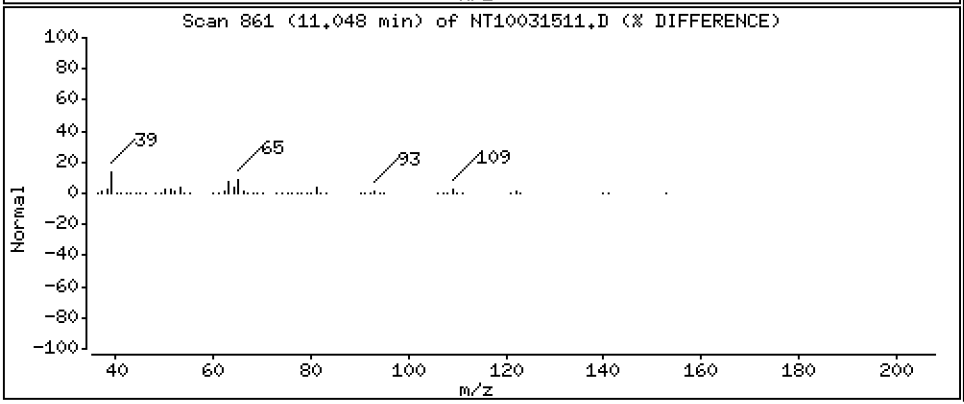
21 2-Nitrophenol

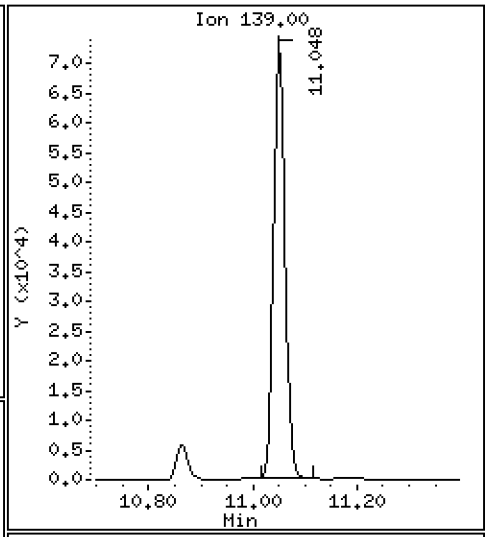
Concentration: 3.995 ug/mL

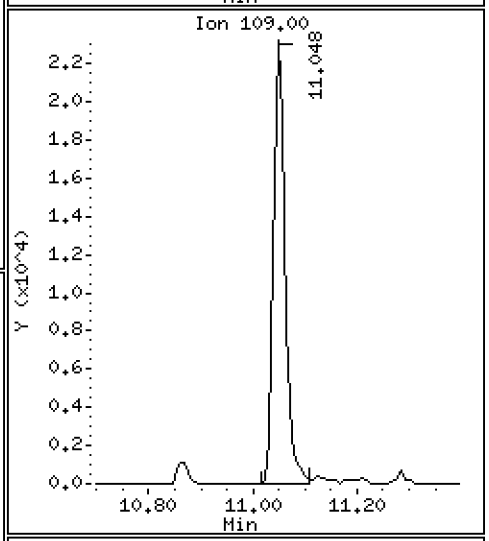


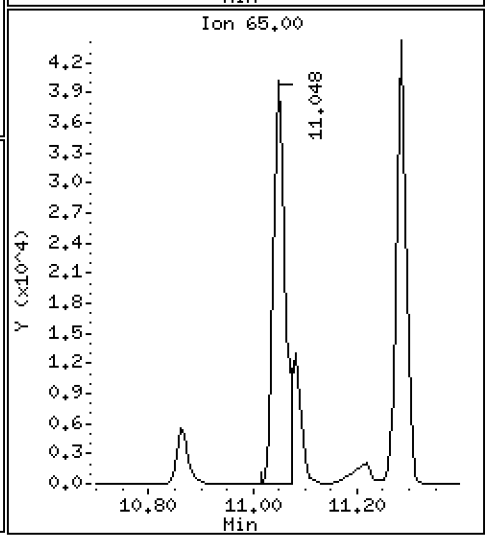












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

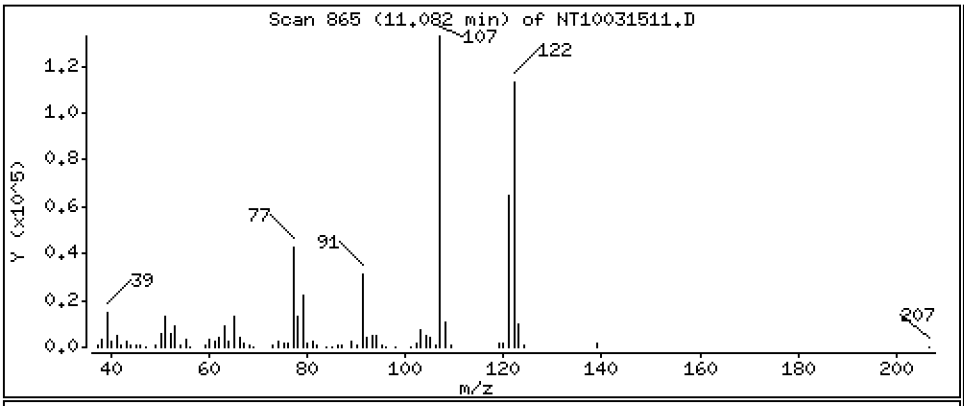
Operator: VTS

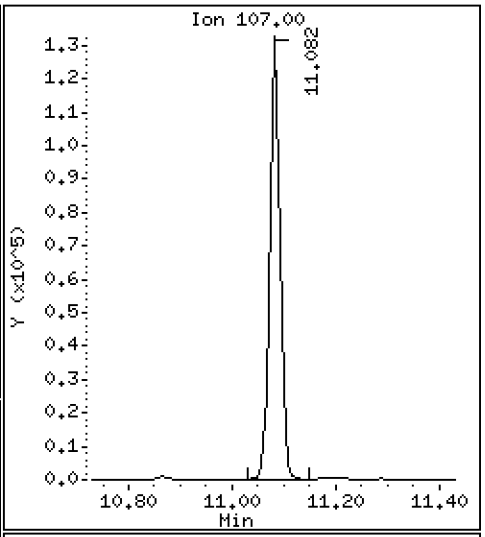
Column phase: ZB-5msi

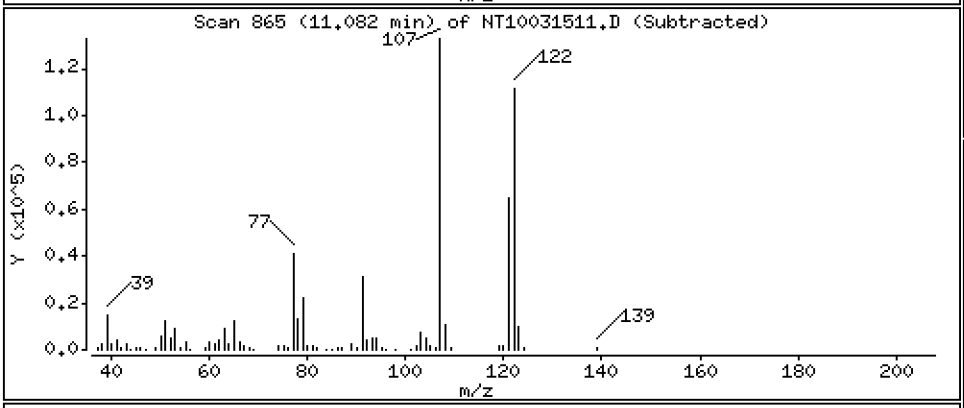
Column diameter: 0.25

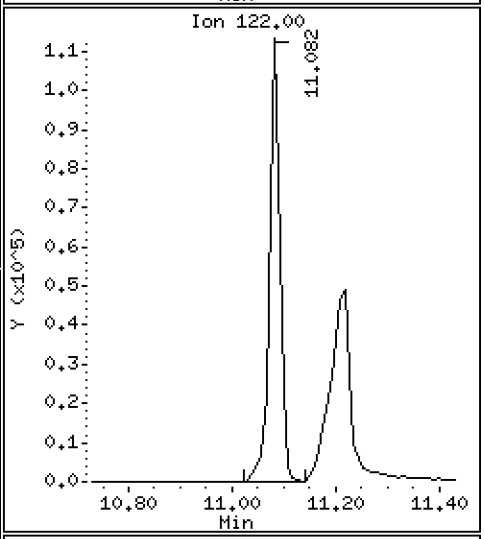
22 2,4-Dimethylphenol

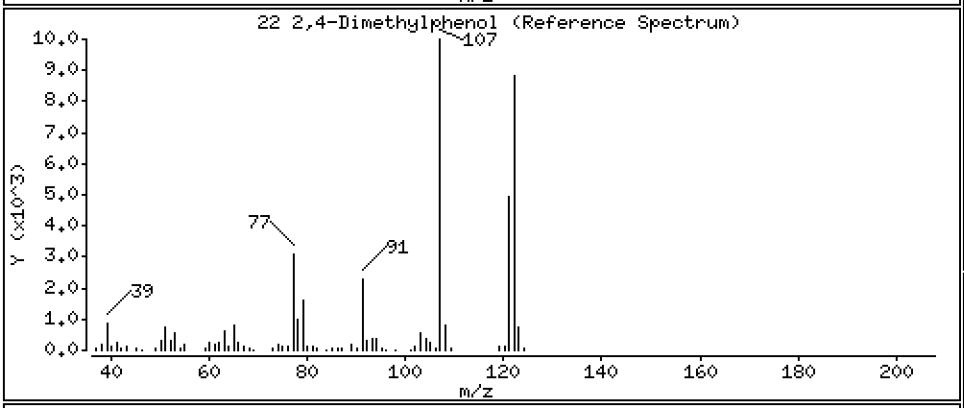
Concentration: 3.632 ug/mL

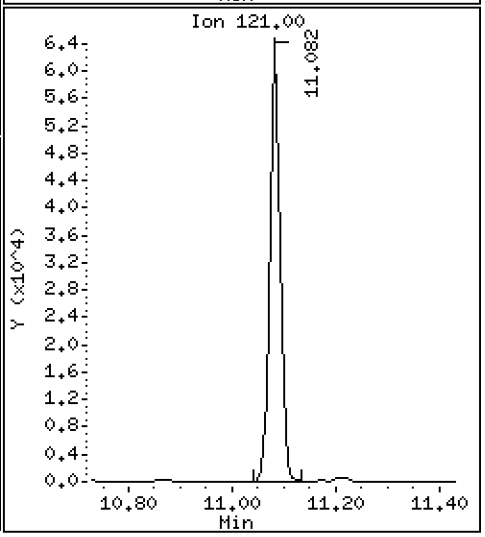


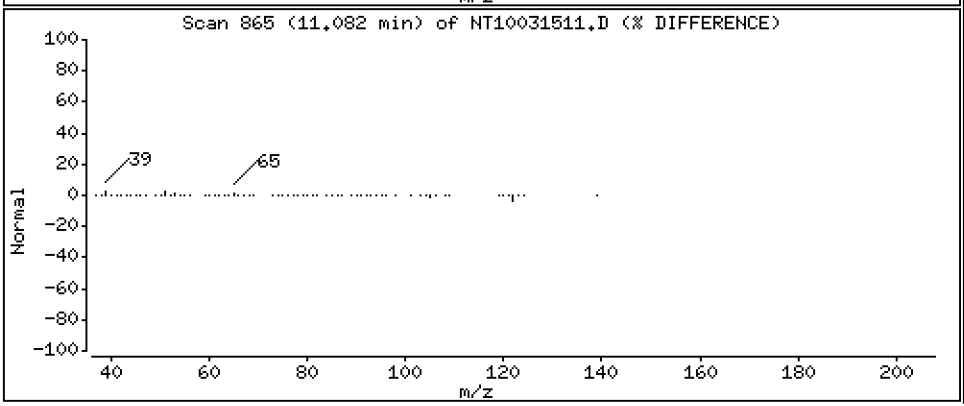












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

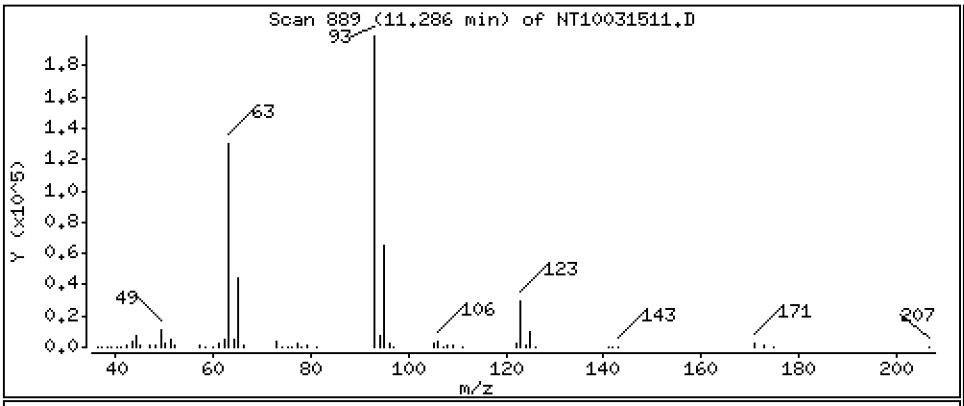
Operator: VTS

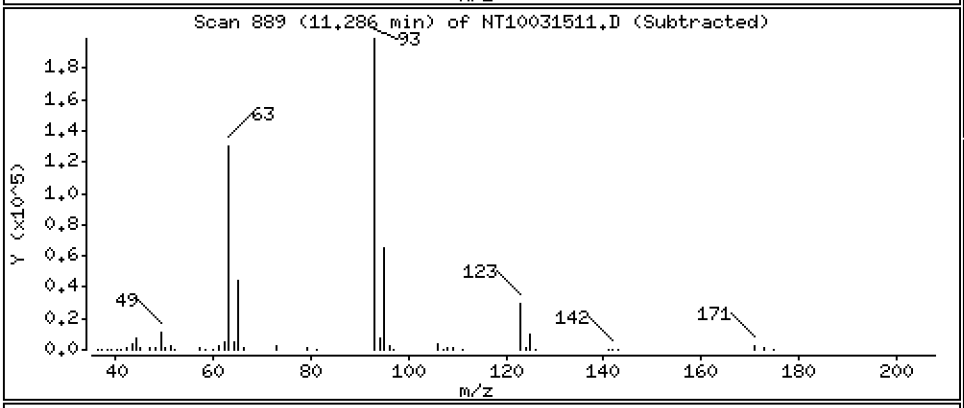
Column phase: ZB-5msi

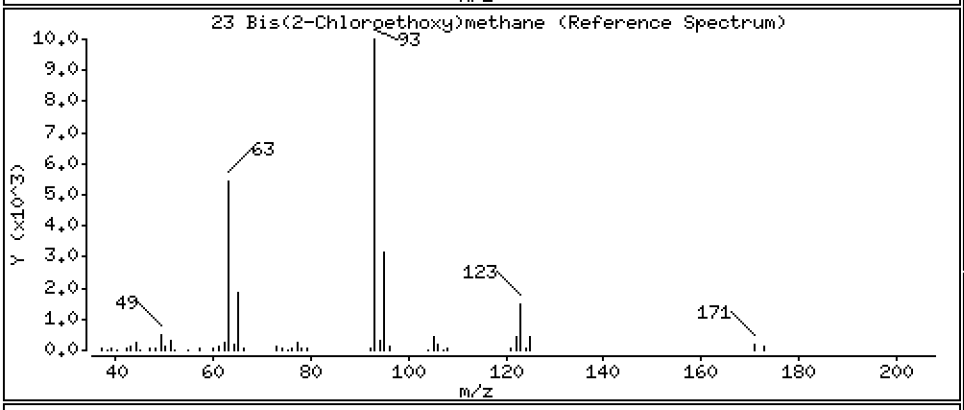
Column diameter: 0.25

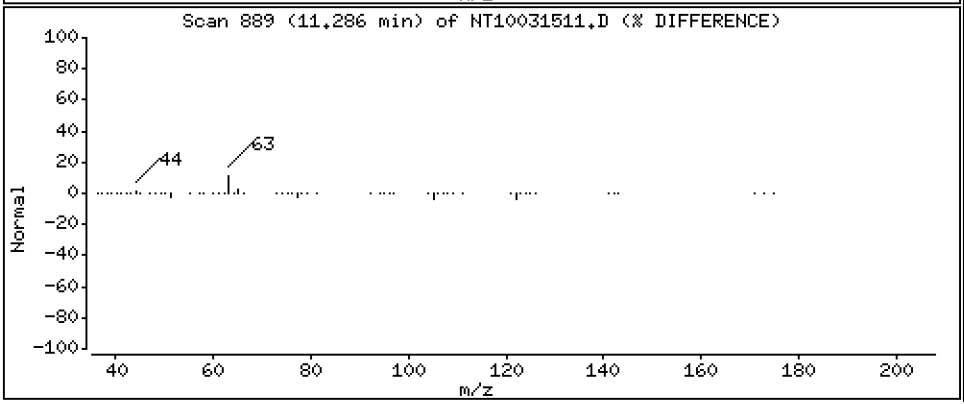
23 Bis(2-Chloroethoxy)methane

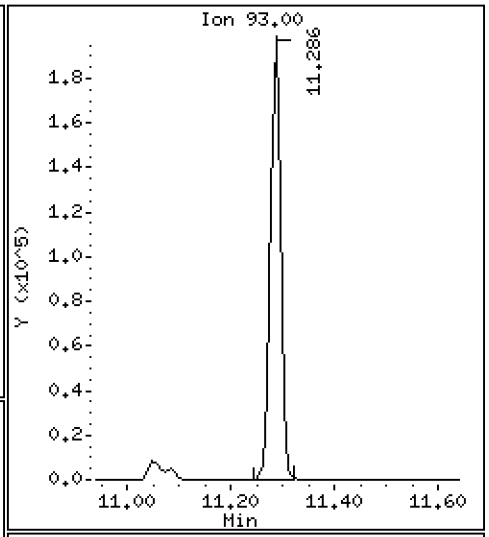
Concentration: 5.654 ug/mL

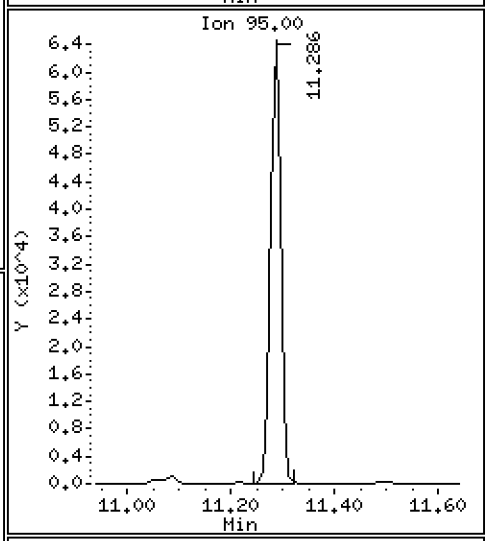


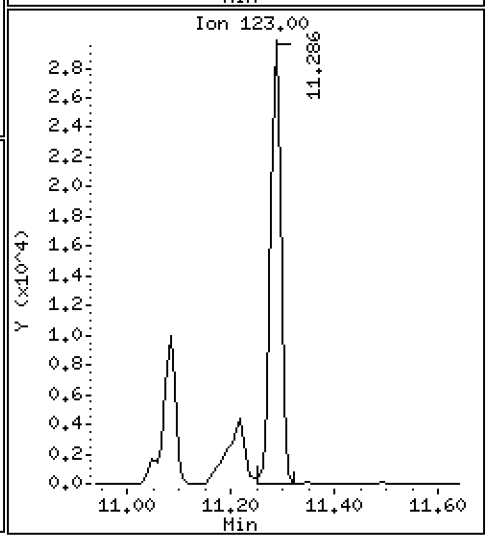












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

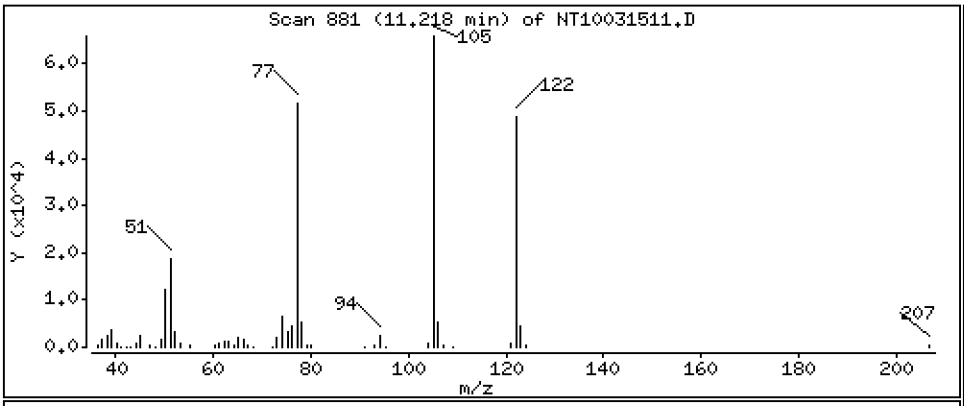
Operator: VTS

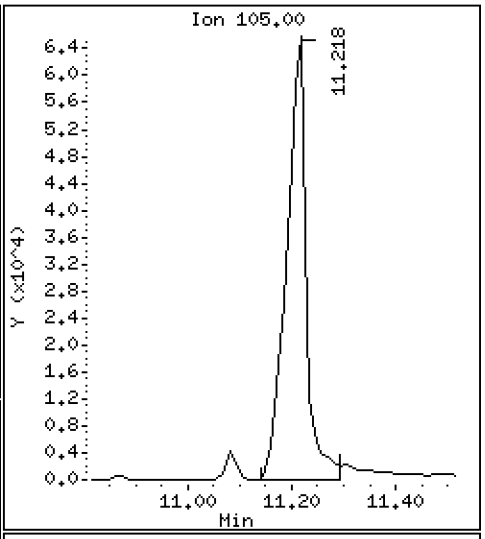
Column phase: ZB-5msi

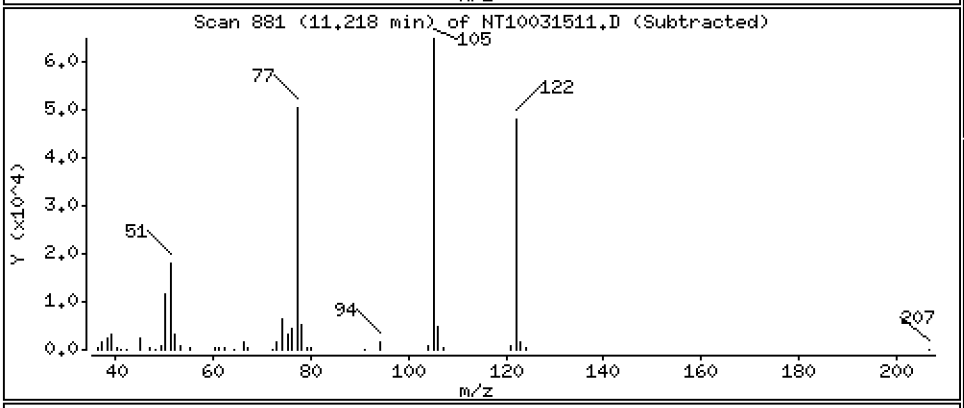
Column diameter: 0.25

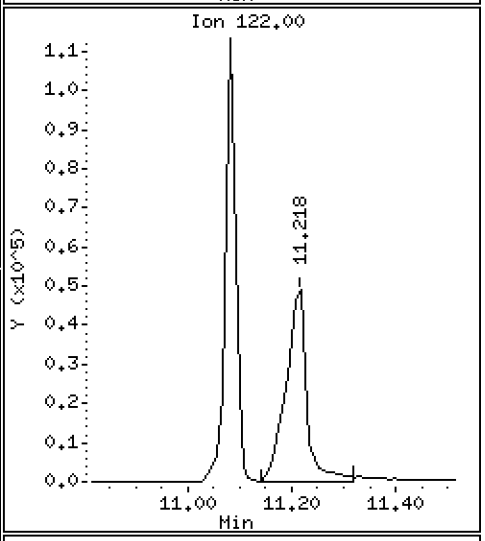
24 Benzoic acid

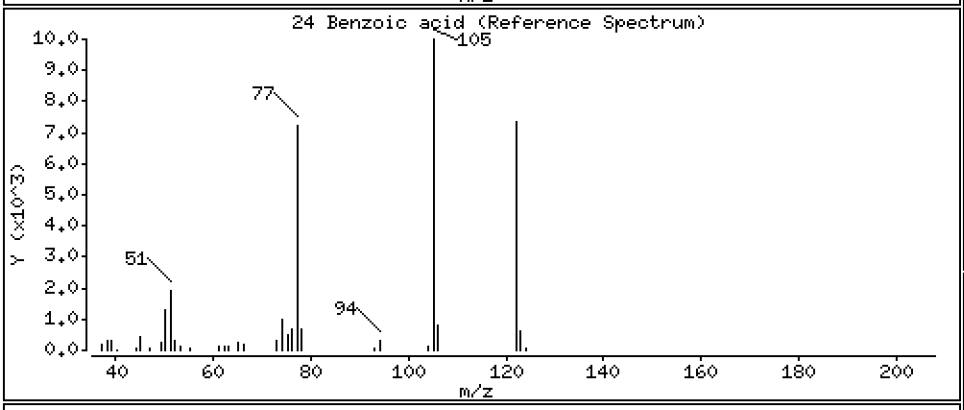
Concentration: 5.952 ug/mL

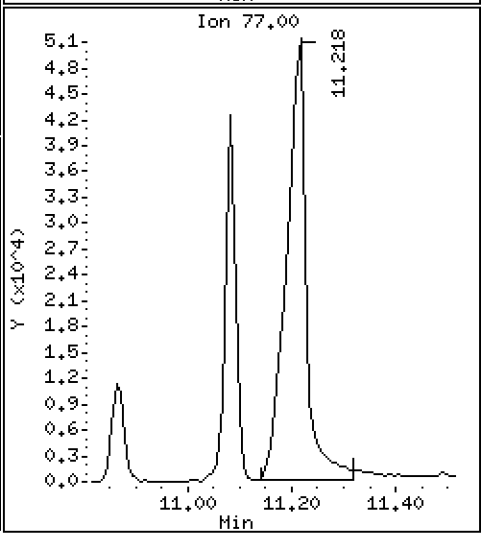


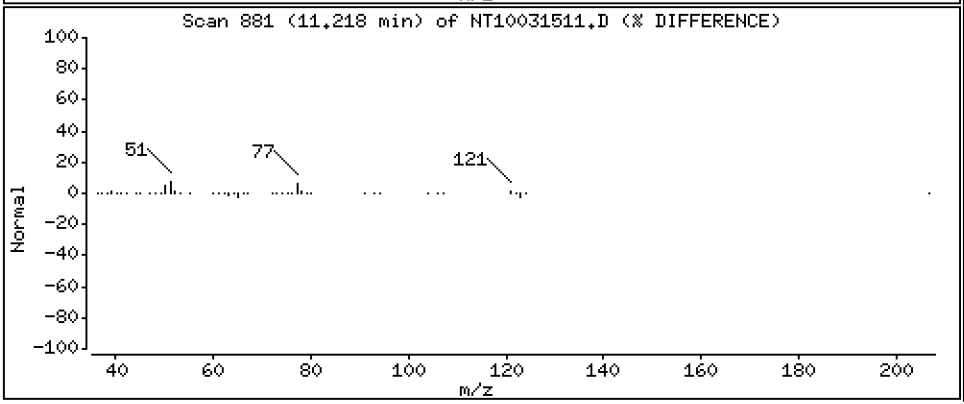












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

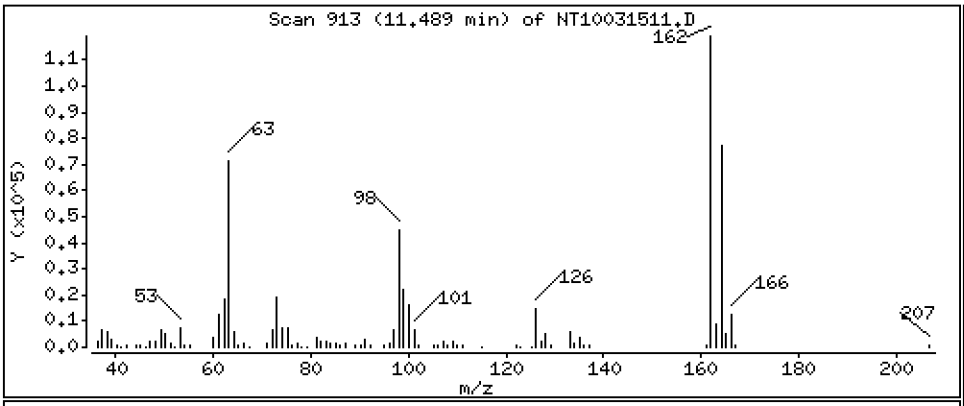
Operator: VTS

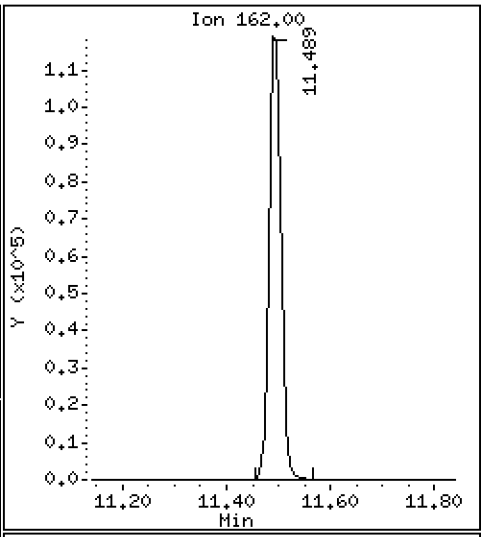
Column phase: ZB-5msi

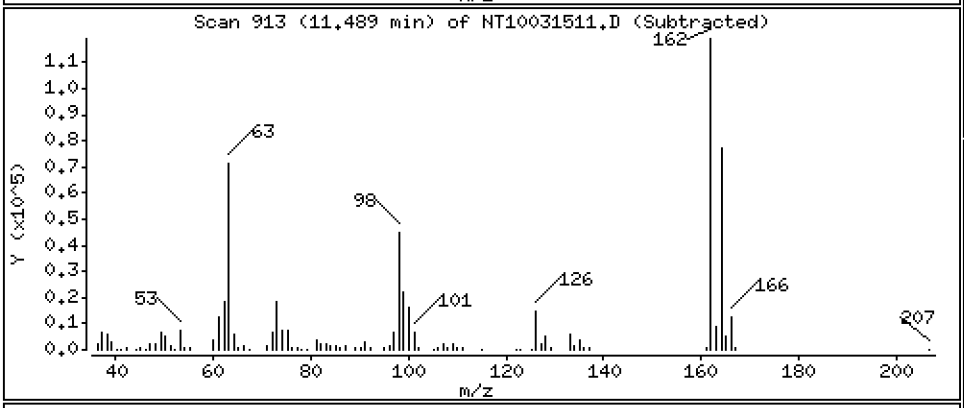
Column diameter: 0.25

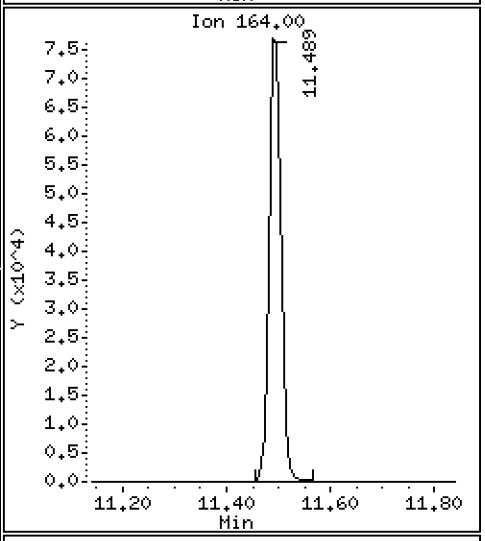
25 2,4-Dichlorophenol

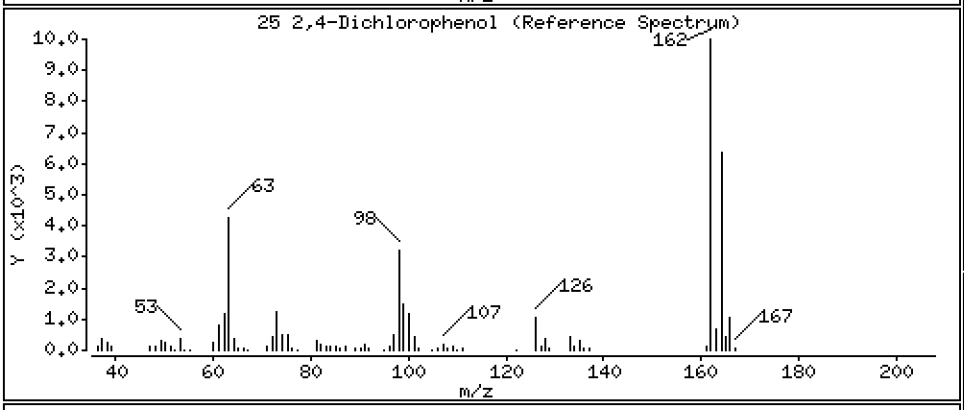
Concentration: 4.703 ug/mL

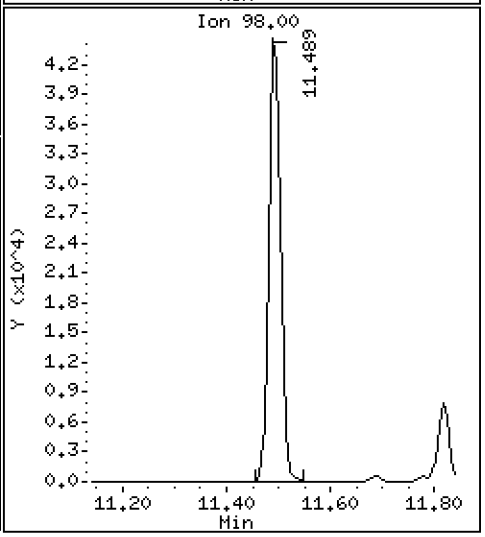


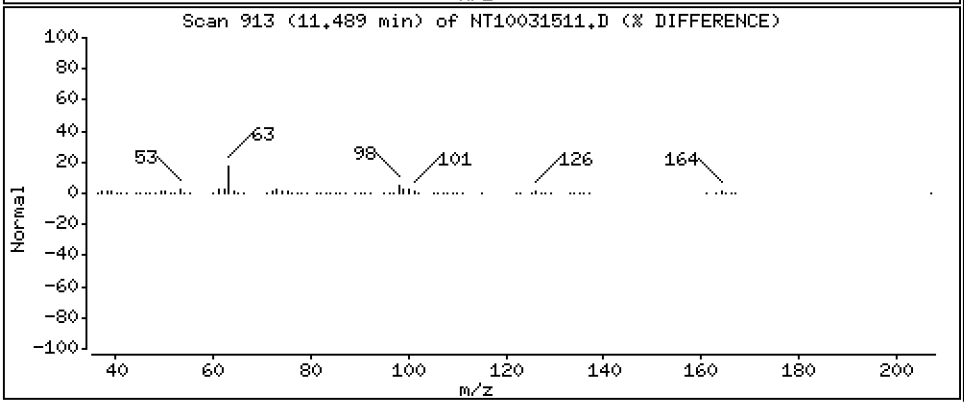












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

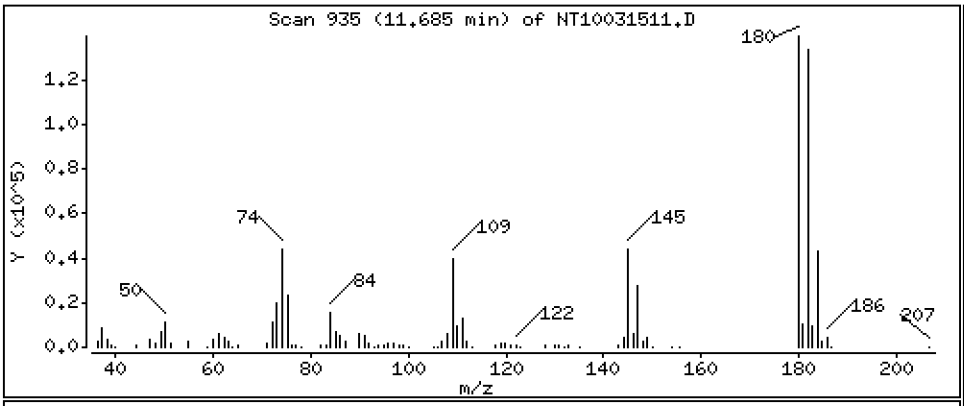
Operator: VTS

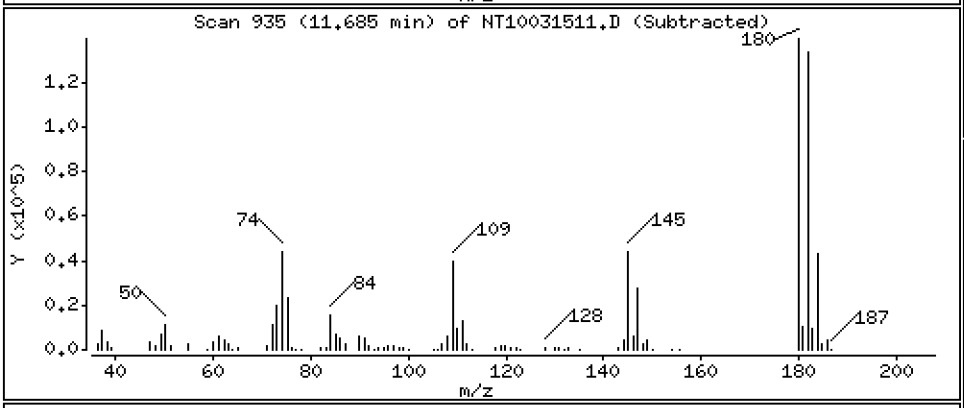
Column phase: ZB-5msi

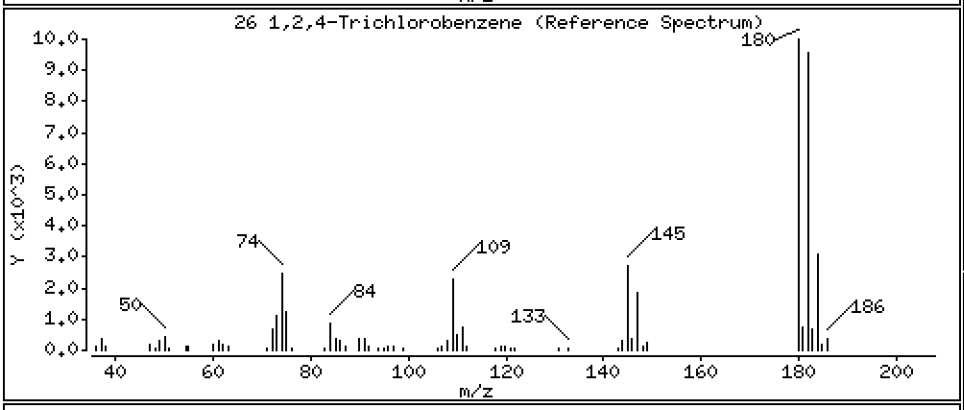
Column diameter: 0.25

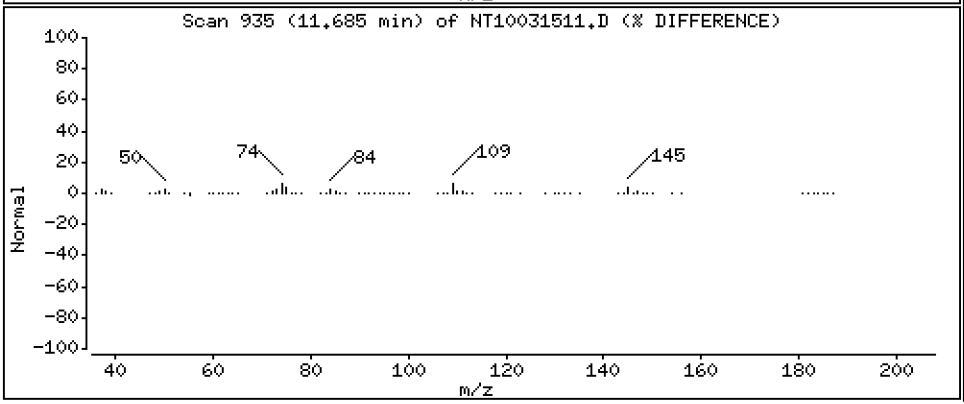
26 1,2,4-Trichlorobenzene

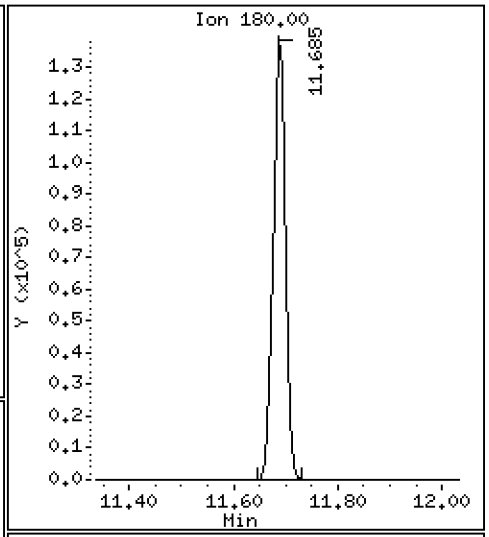
Concentration: 4.554 ug/mL

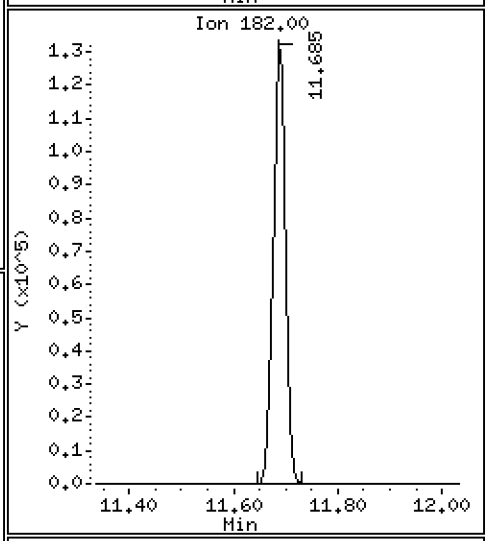


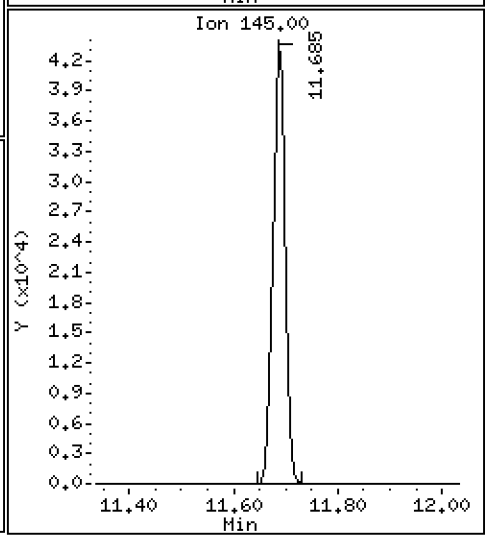












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

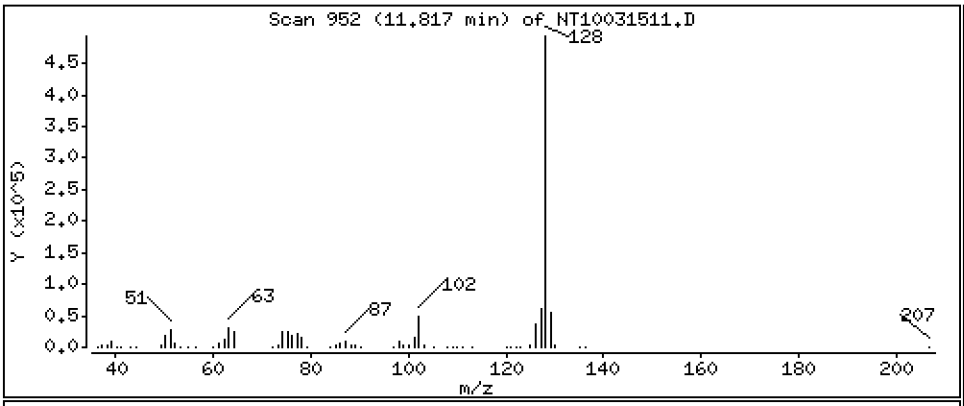
Operator: VTS

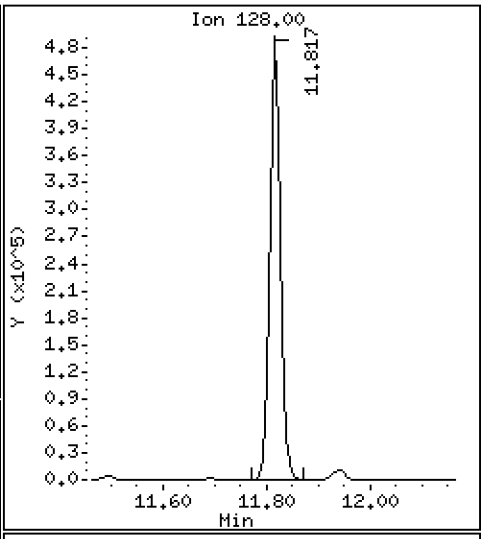
Column phase: ZB-5msi

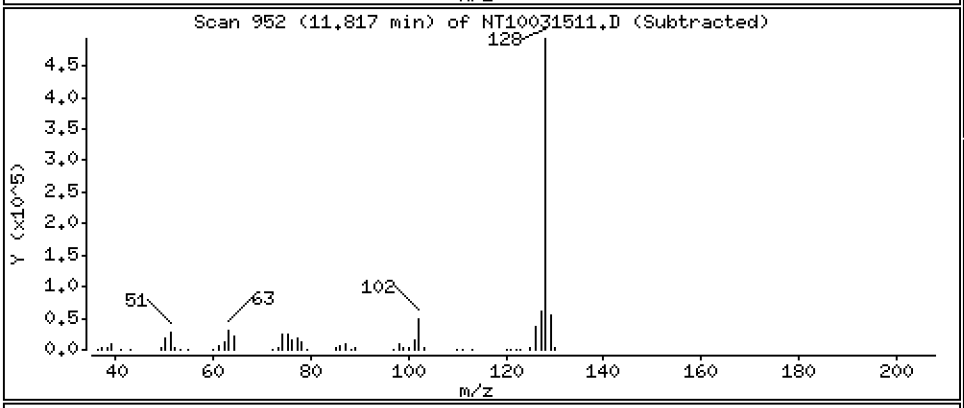
Column diameter: 0.25

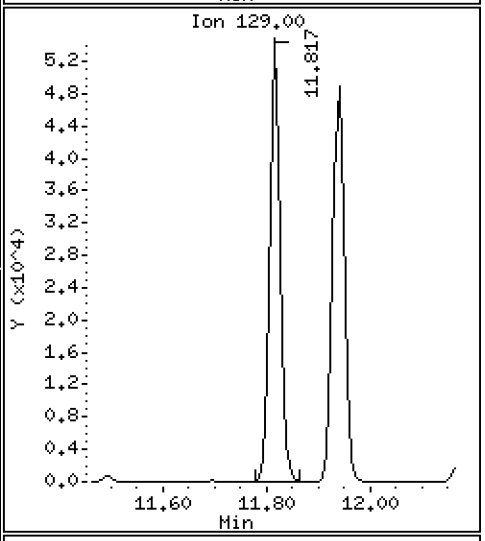
28 Naphthalene

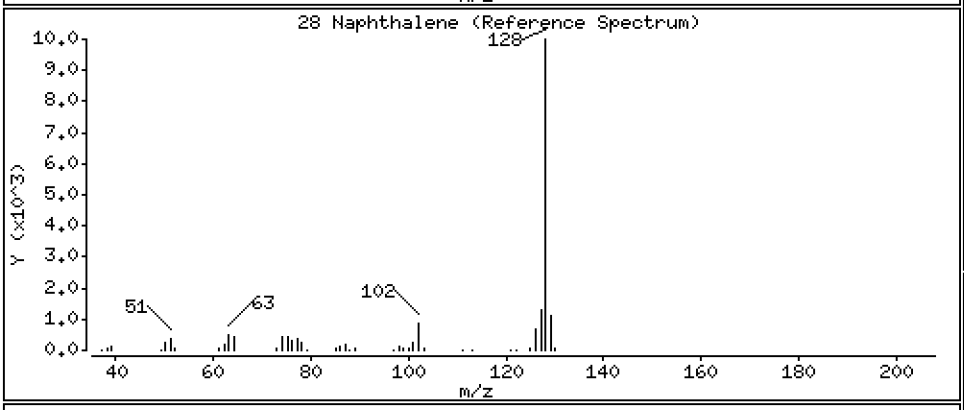
Concentration: 4.717 ug/mL

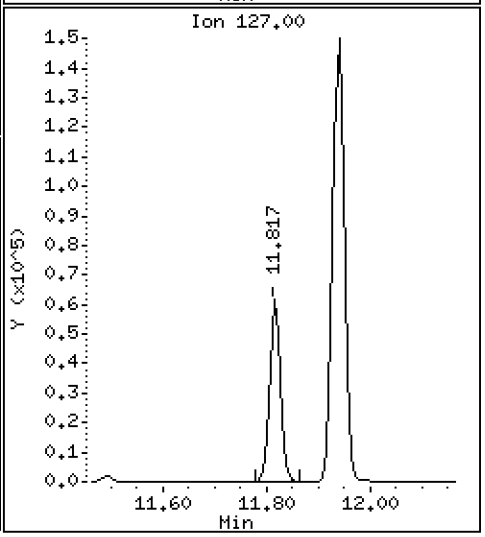


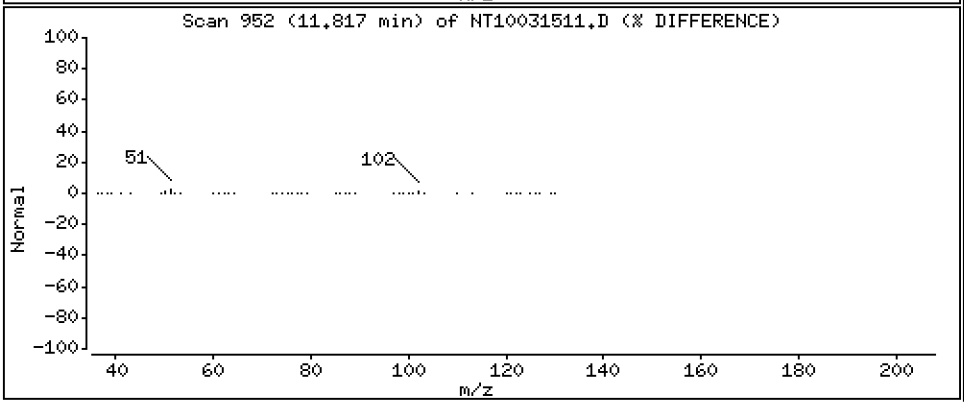












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

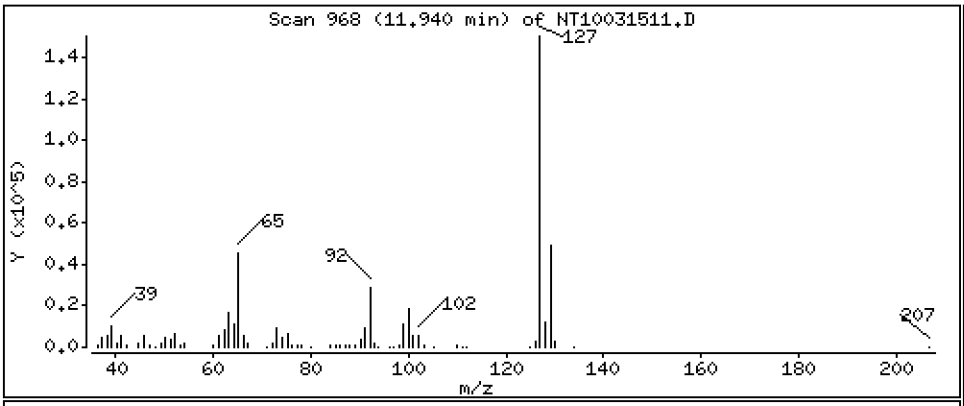
Operator: VTS

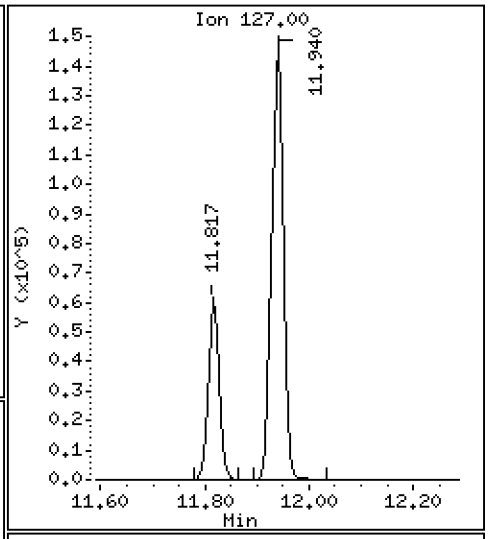
Column phase: ZB-5msi

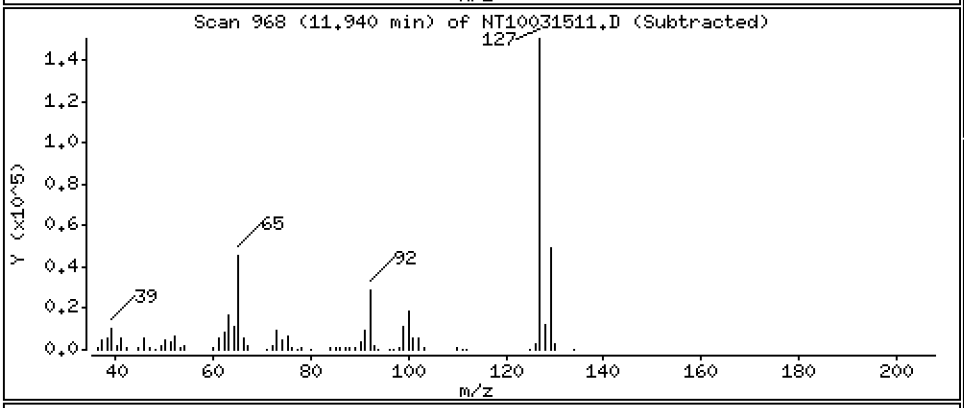
Column diameter: 0.25

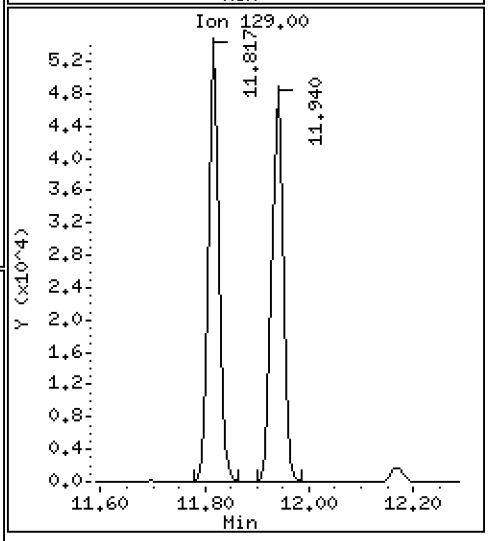
29 4-Chloroaniline

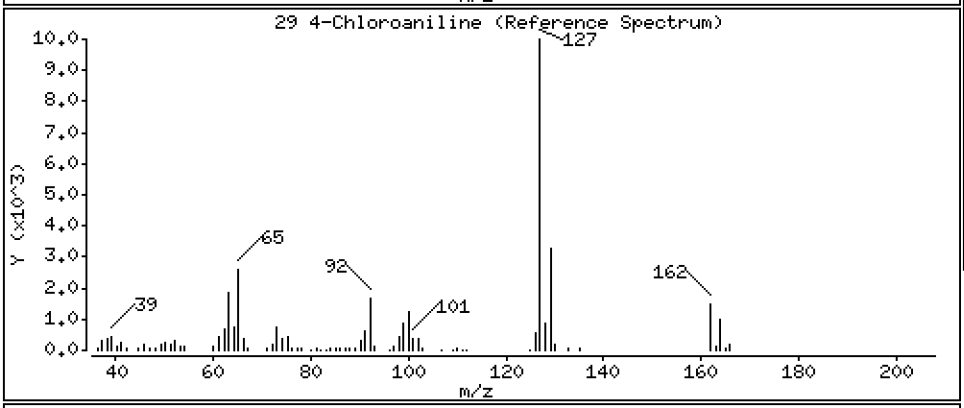
Concentration: 3.787 ug/mL

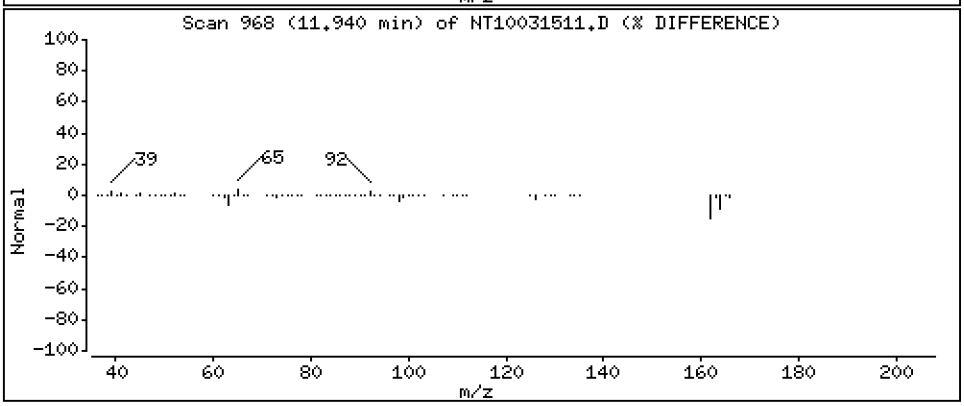












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

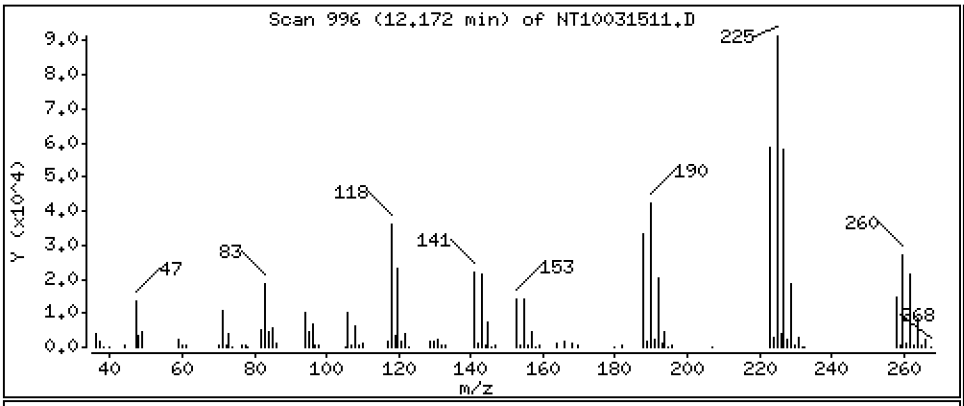
Operator: VTS

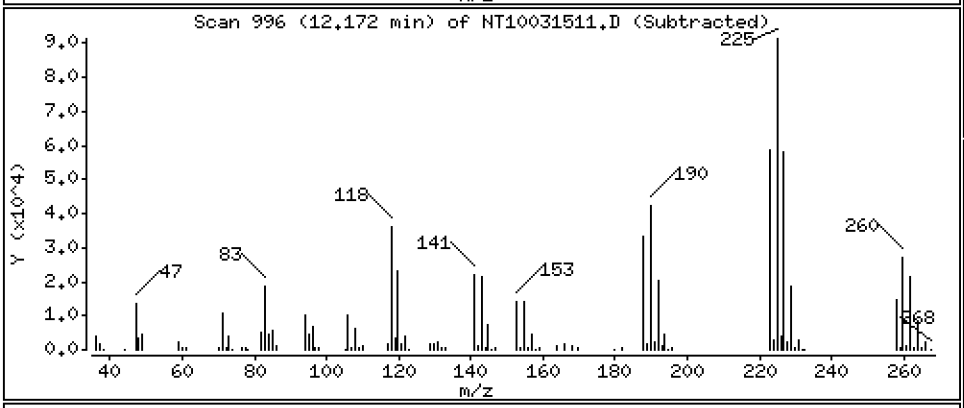
Column phase: ZB-5msi

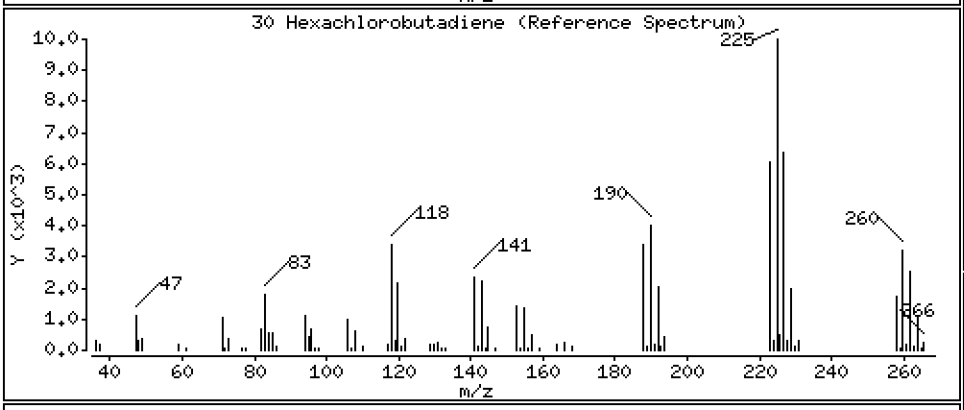
Column diameter: 0.25

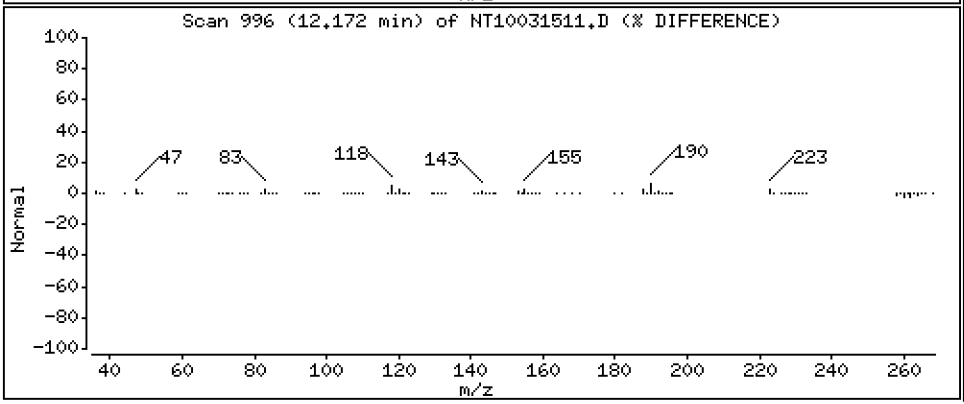
30 Hexachlorobutadiene

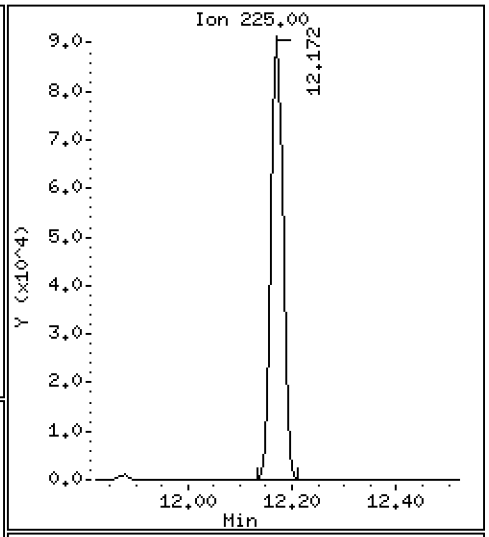
Concentration: 4.834 ug/mL

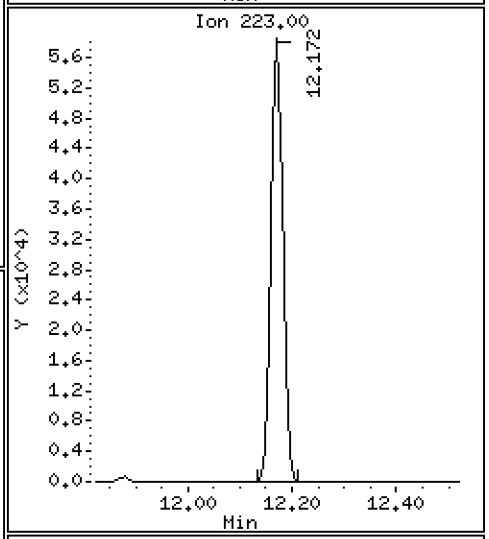


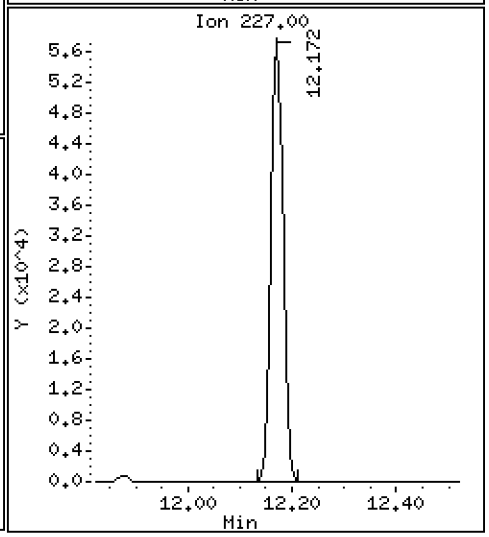












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

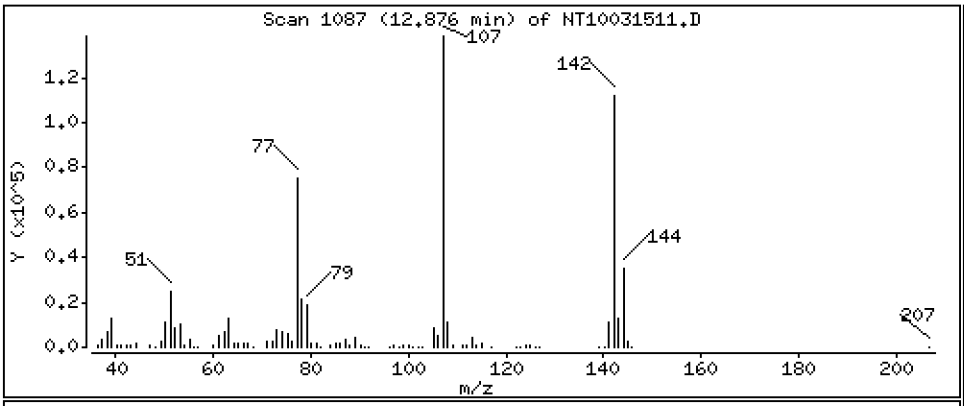
Operator: VTS

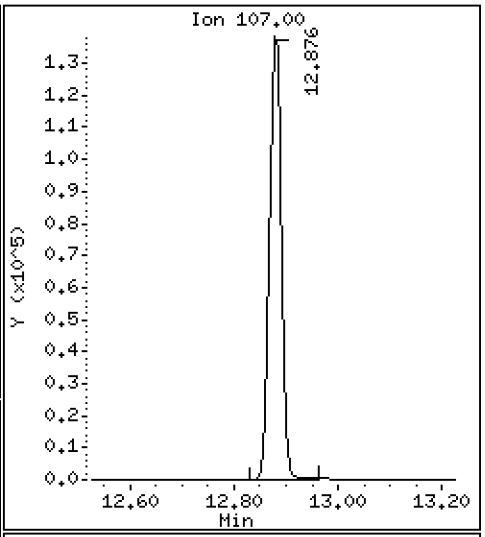
Column phase: ZB-5msi

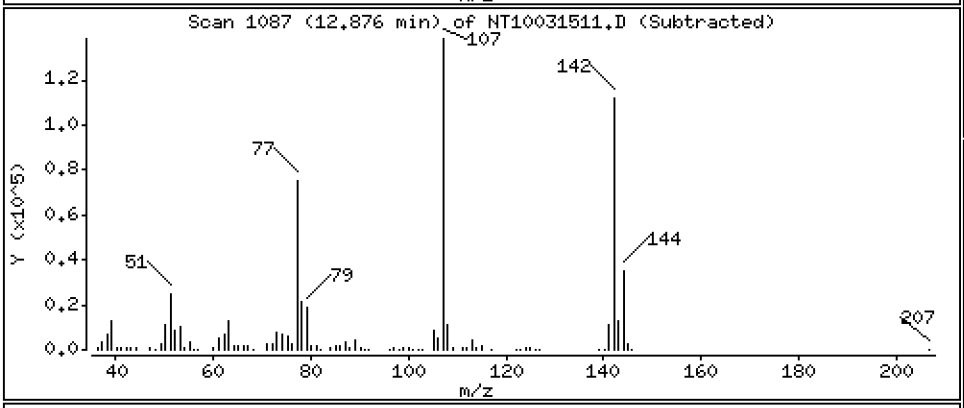
Column diameter: 0.25

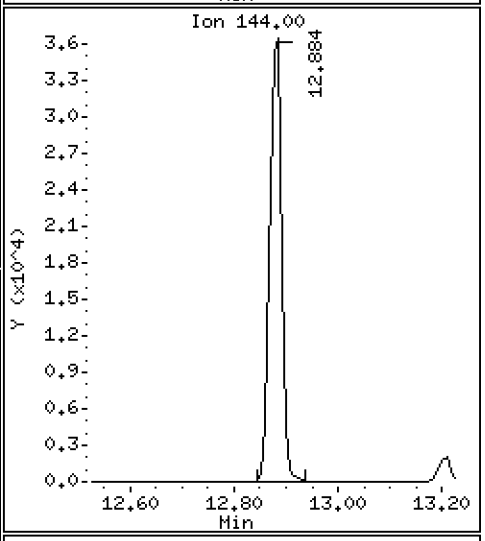
31 4-Chloro-3-methylphenol

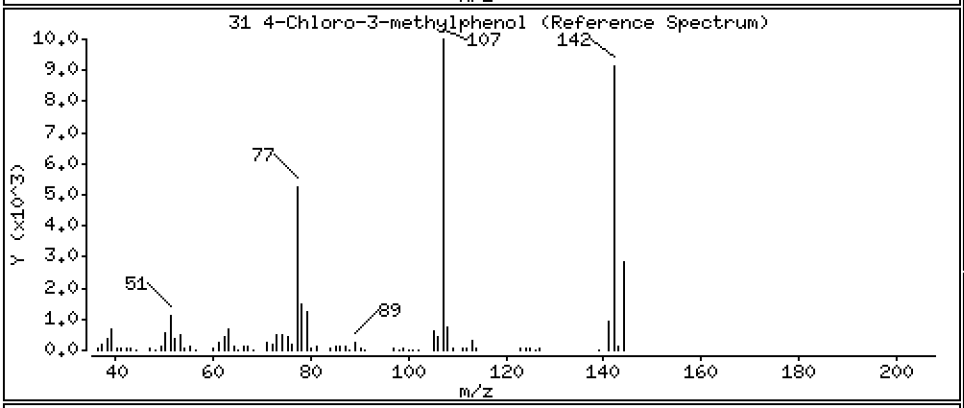
Concentration: 4.640 ug/mL

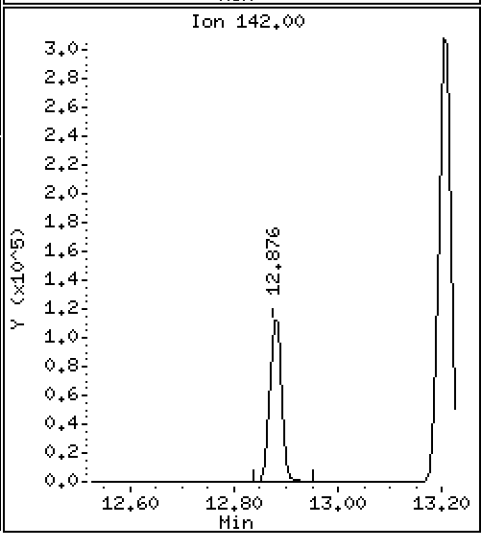


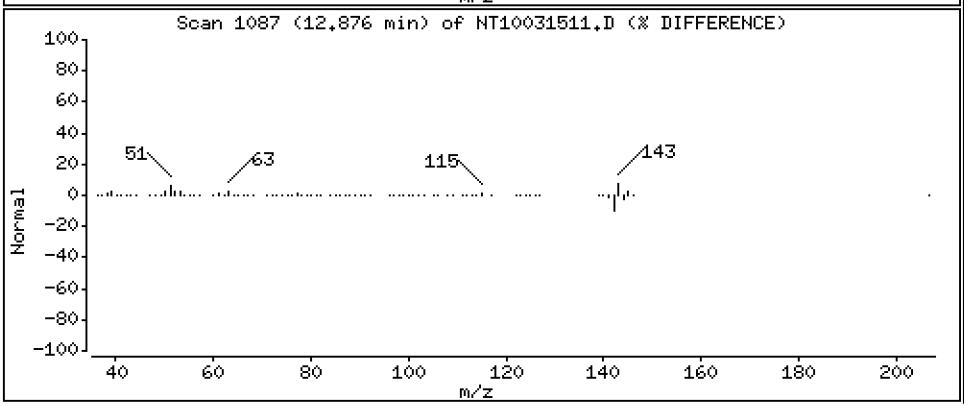












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

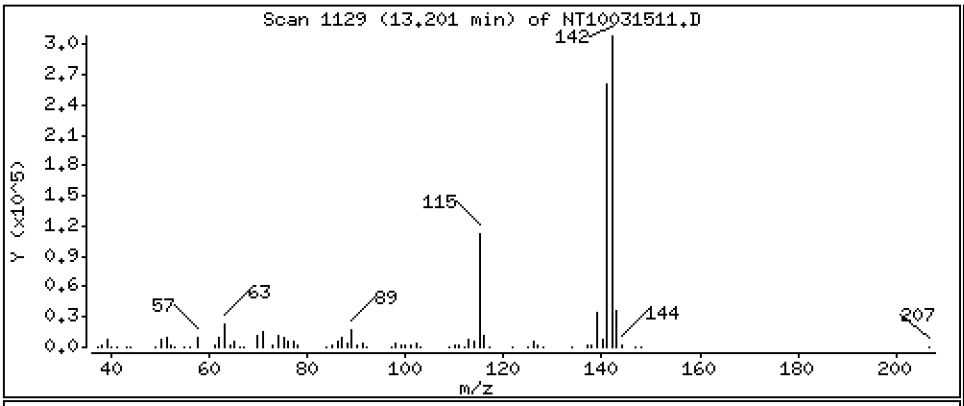
Operator: VTS

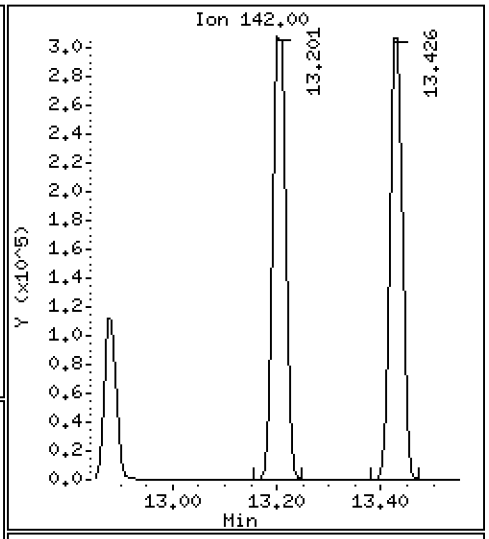
Column phase: ZB-5msi

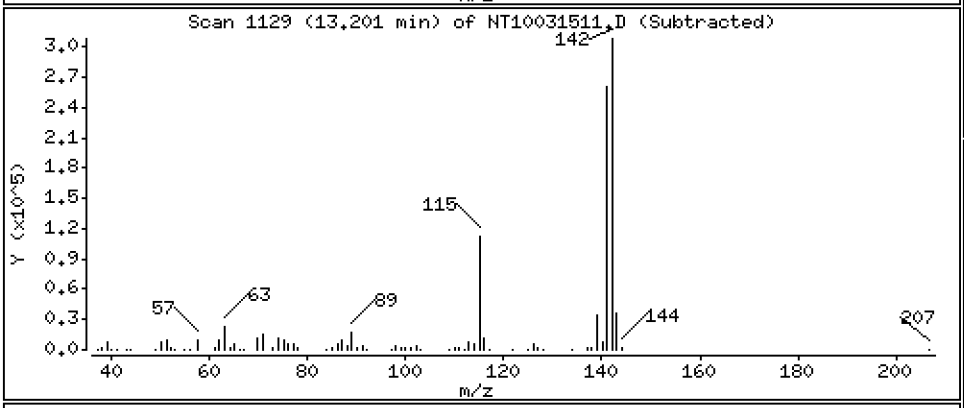
Column diameter: 0.25

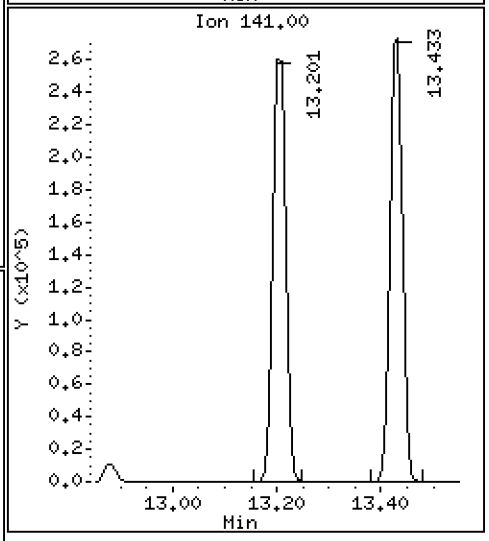
32 2-Methylnaphthalene

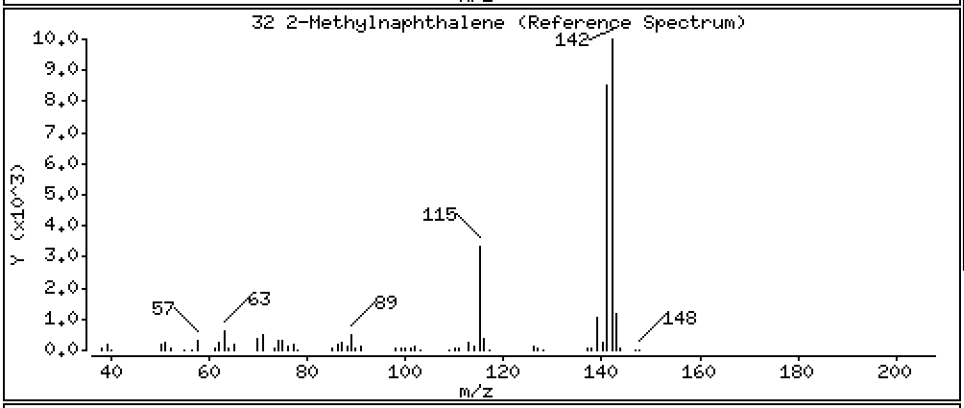
Concentration: 4.596 ug/mL

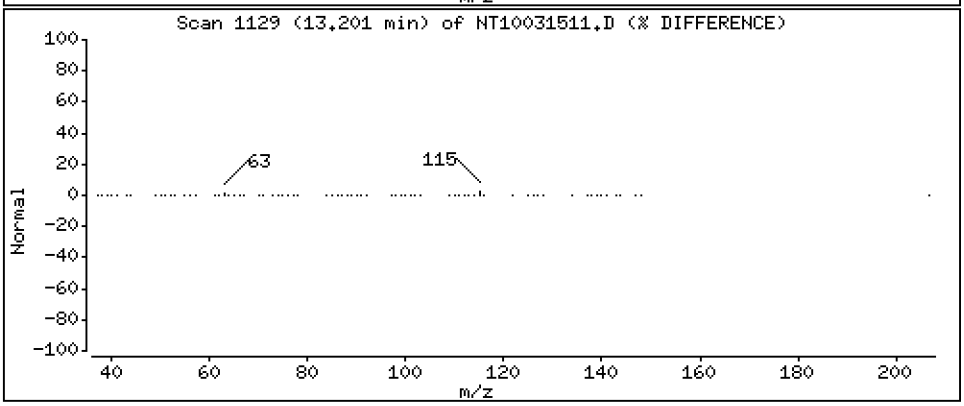












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

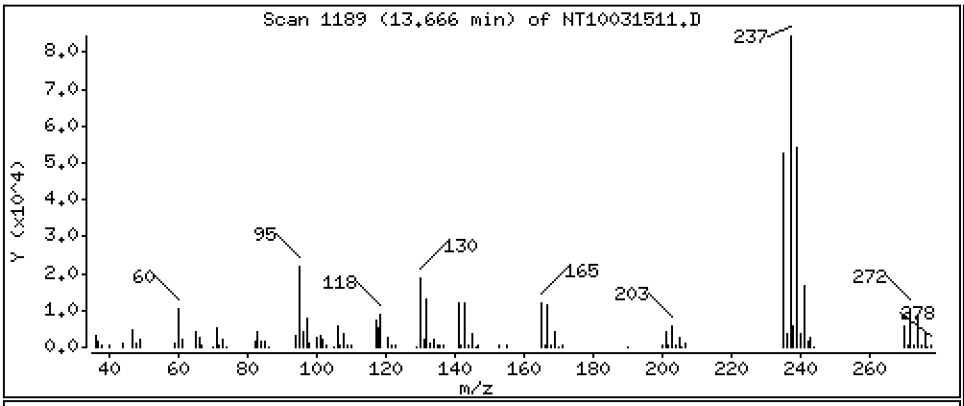
Operator: VTS

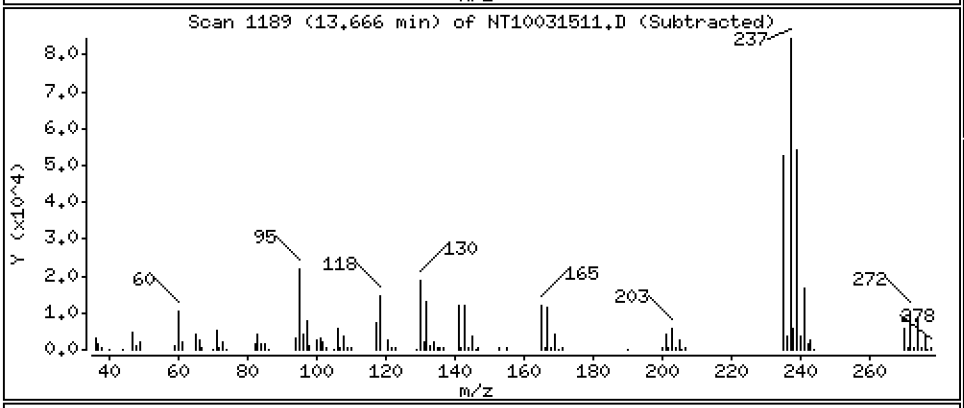
Column phase: ZB-5msi

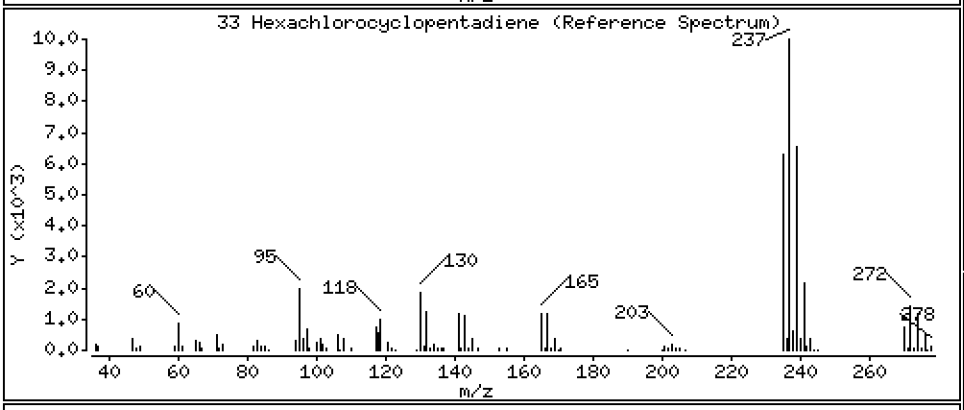
Column diameter: 0.25

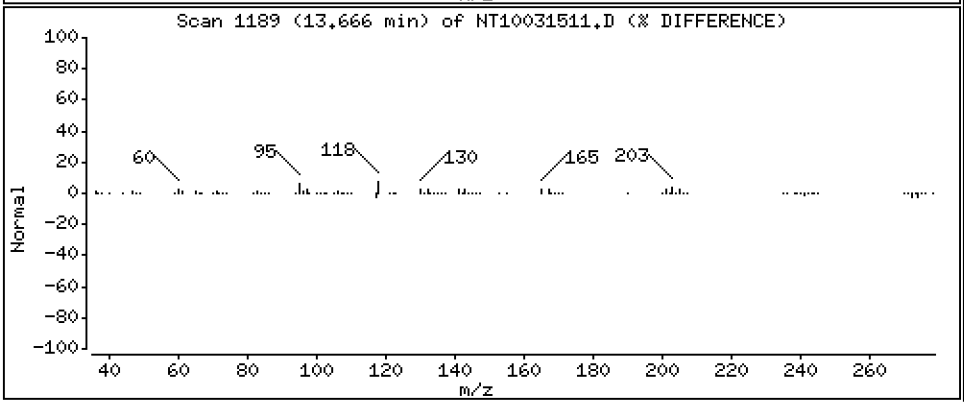
33 Hexachlorocyclopentadiene

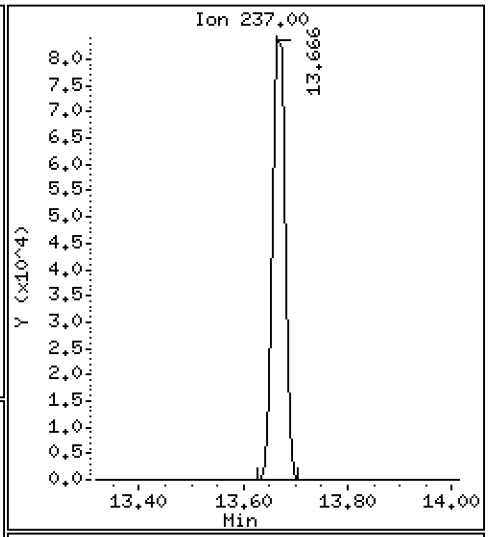
Concentration: 4.729 ug/mL

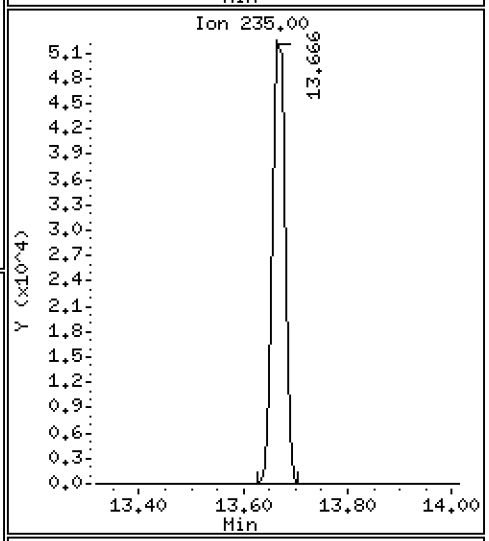


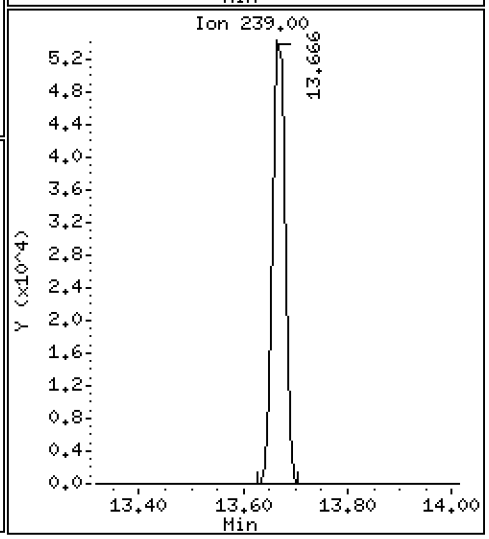












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

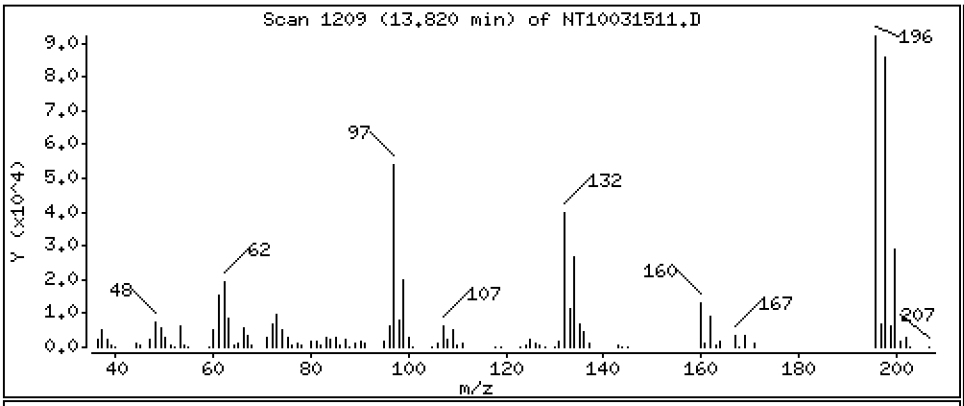
Operator: VTS

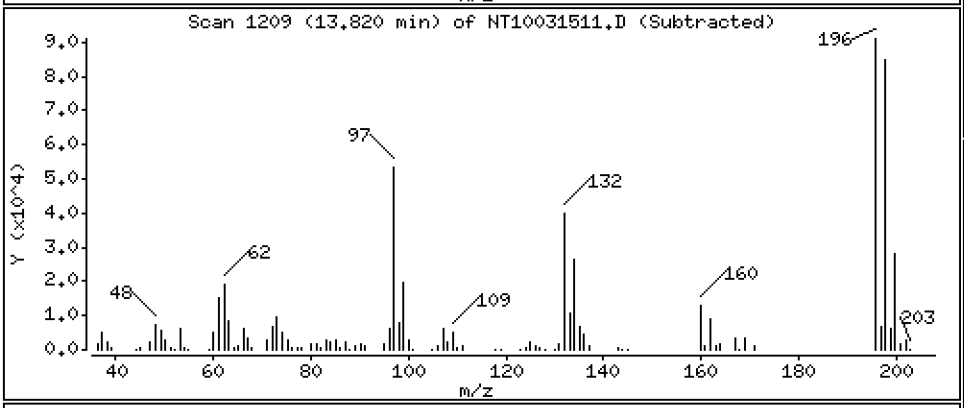
Column phase: ZB-5msi

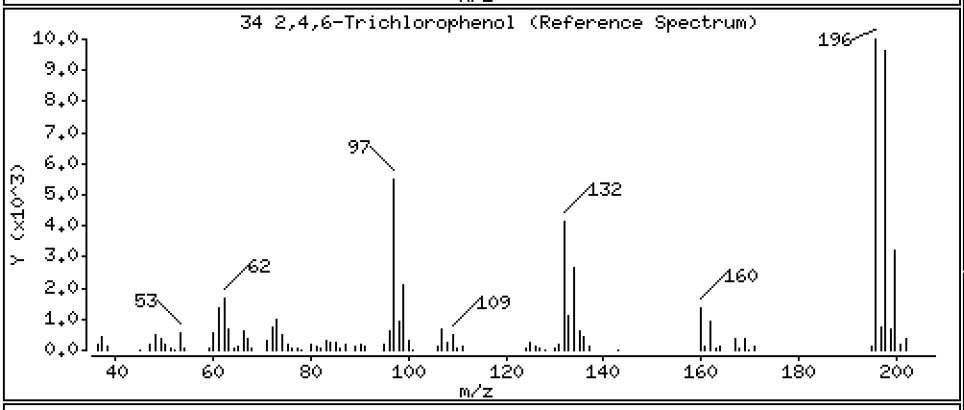
Column diameter: 0.25

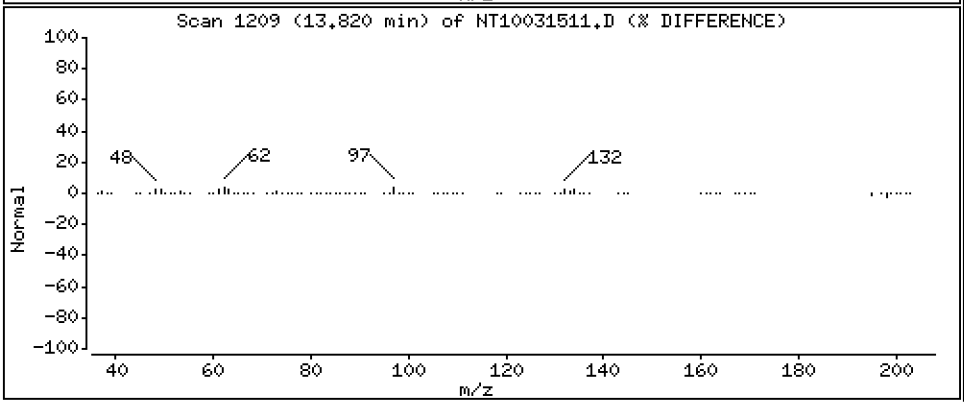
34 2,4,6-Trichlorophenol

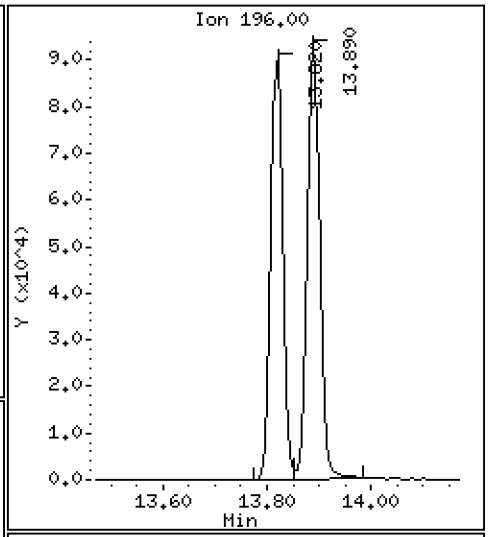
Concentration: 4.596 ug/mL

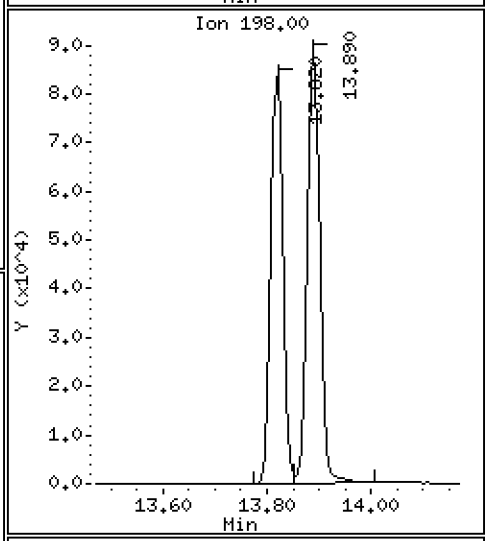


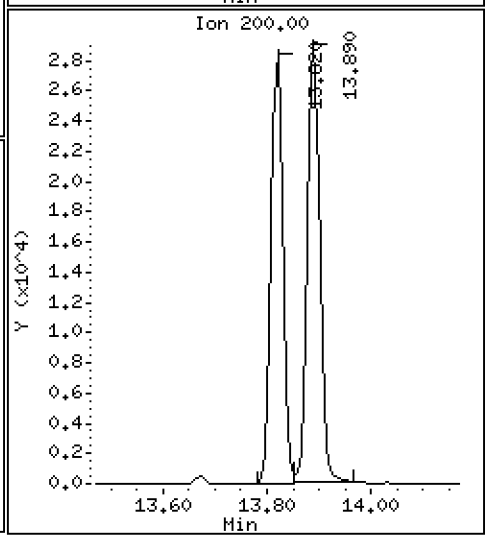












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

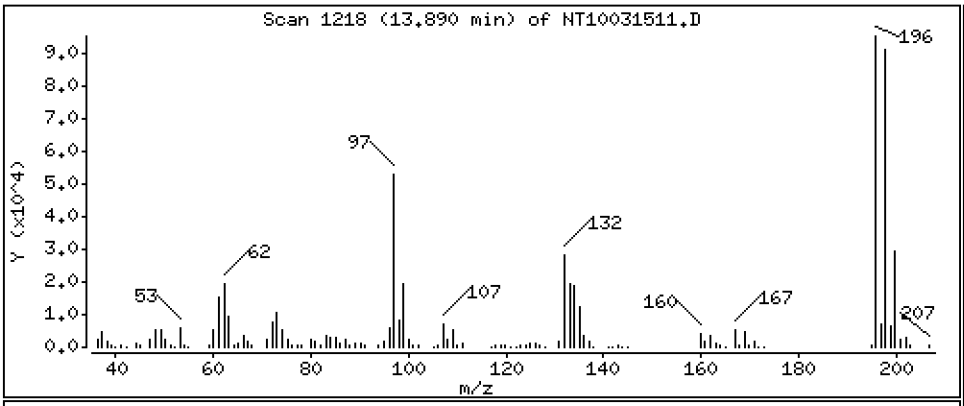
Operator: VTS

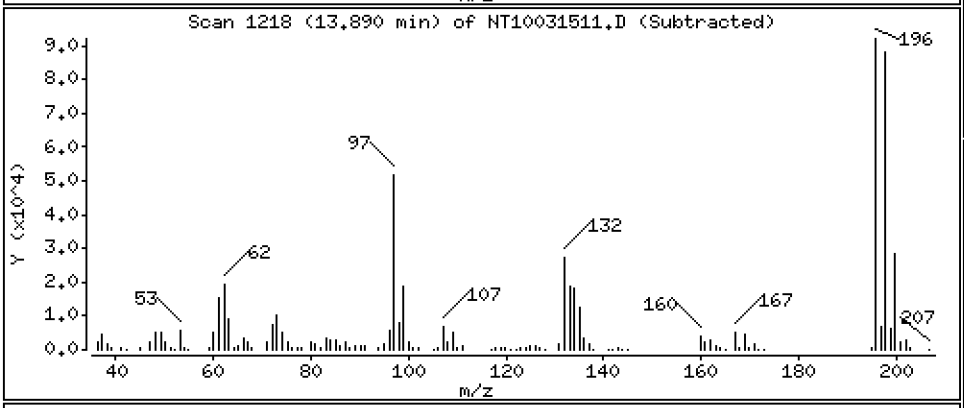
Column phase: ZB-5msi

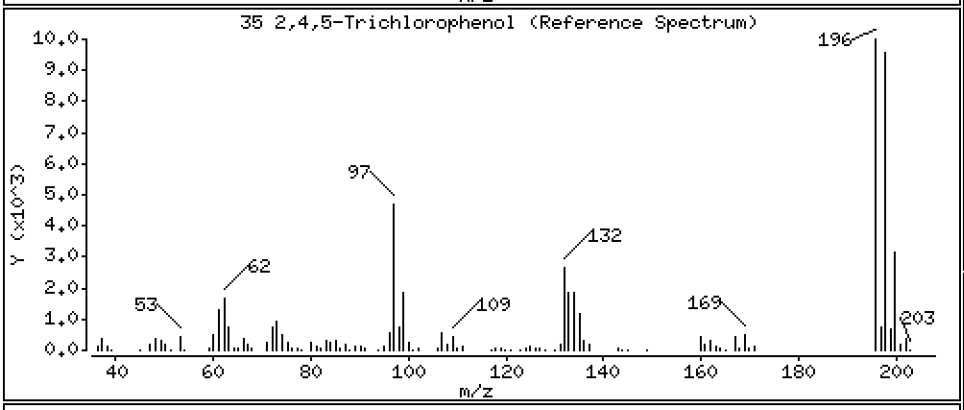
Column diameter: 0.25

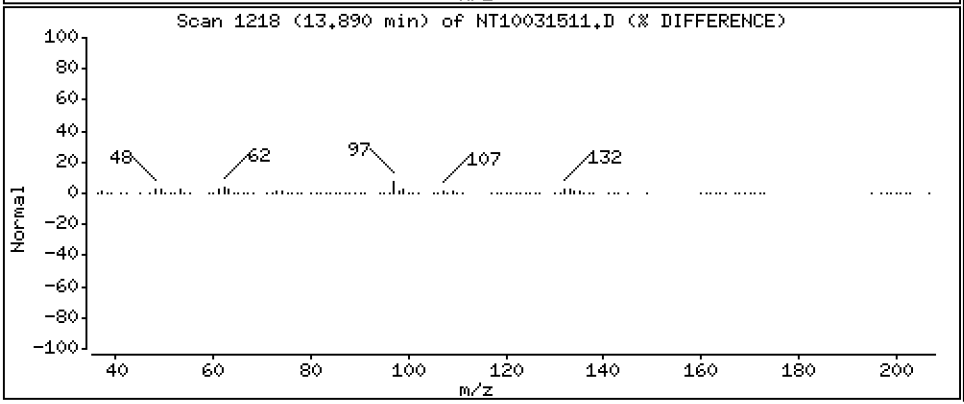
35 2,4,5-Trichlorophenol

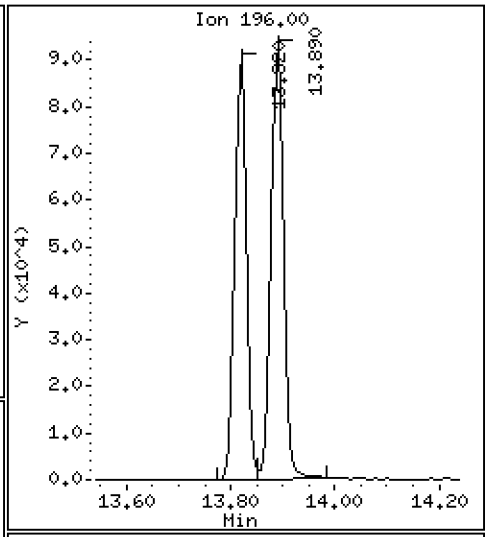
Concentration: 4.409 ug/mL

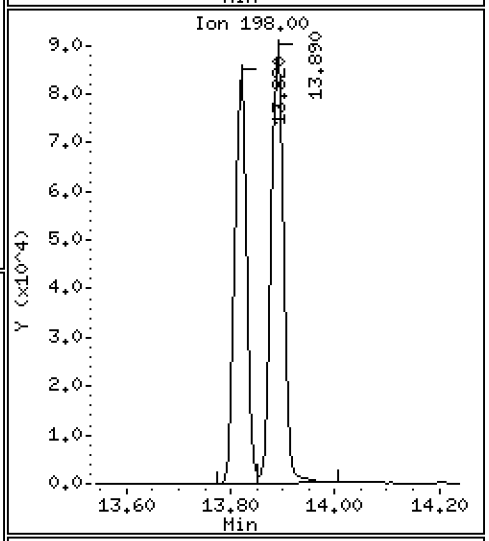


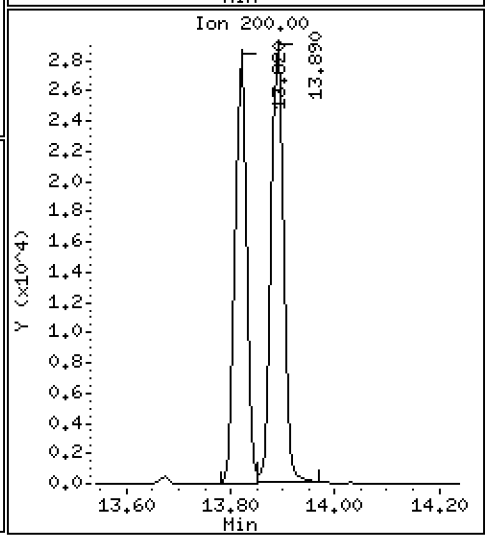












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

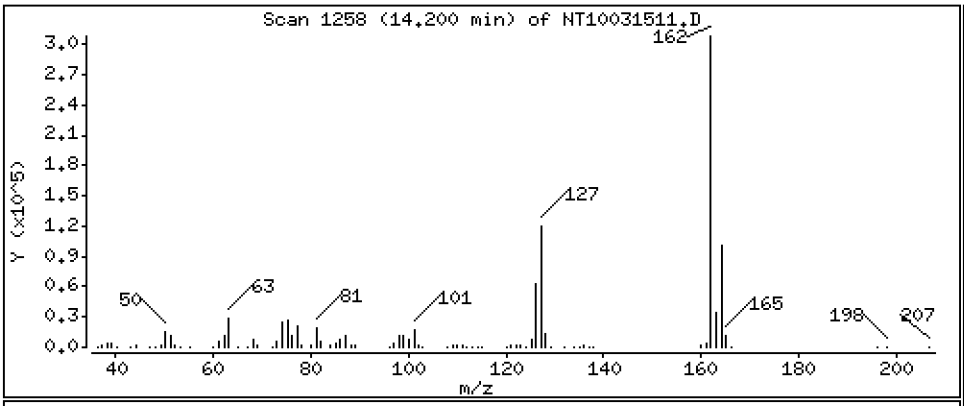
Operator: VTS

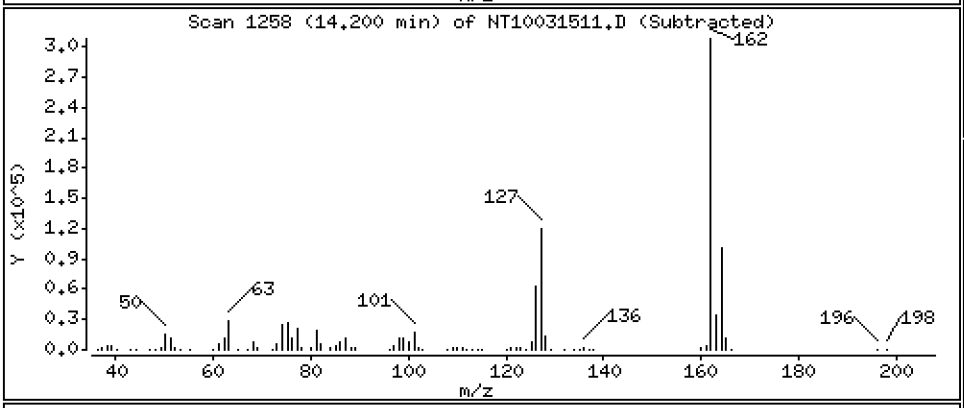
Column phase: ZB-5msi

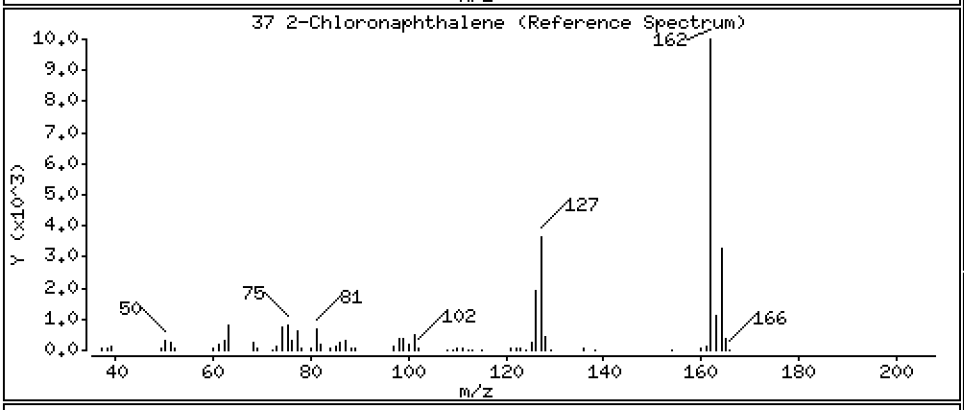
Column diameter: 0.25

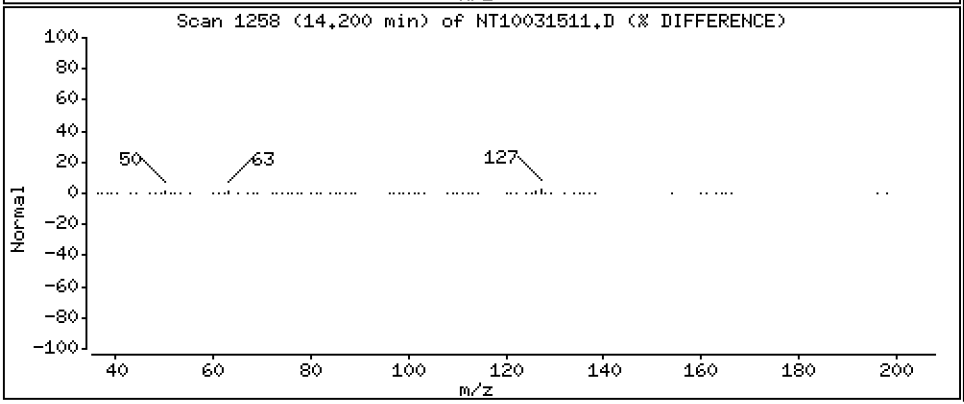
37 2-Chloronaphthalene

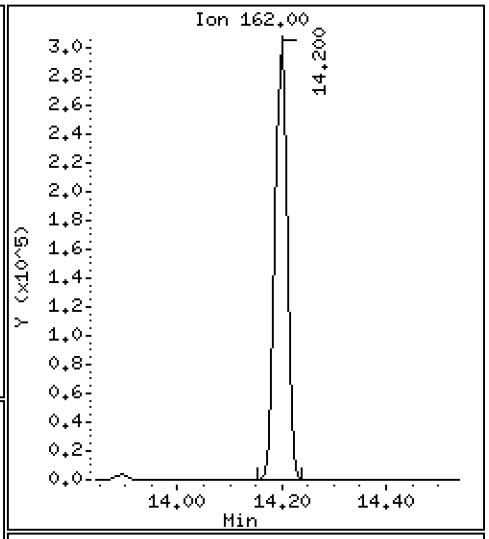
Concentration: 4.796 ug/mL

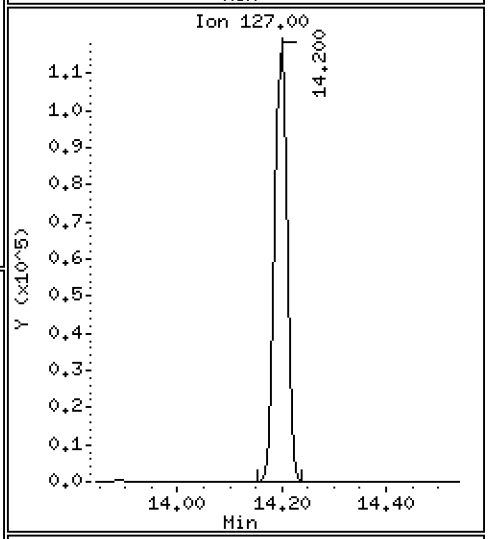


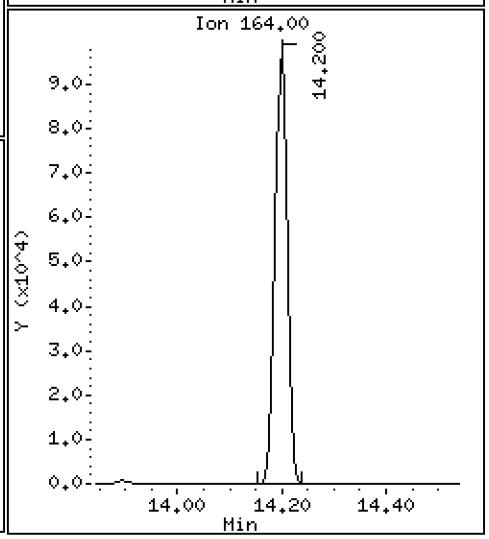












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

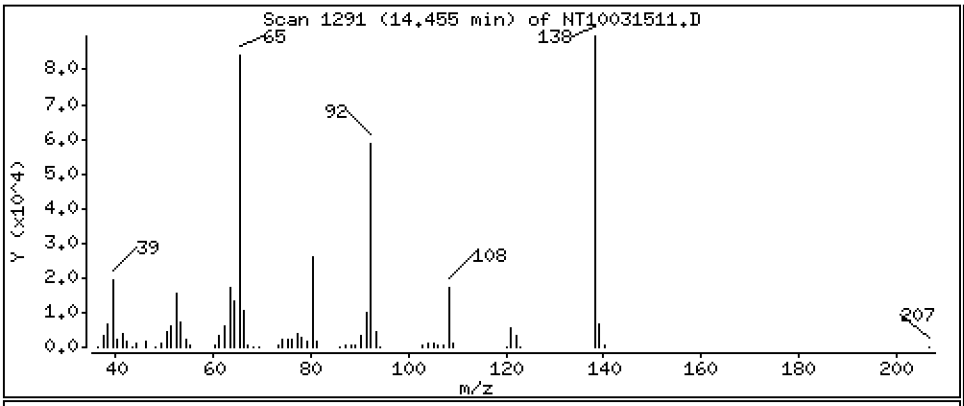
Operator: VTS

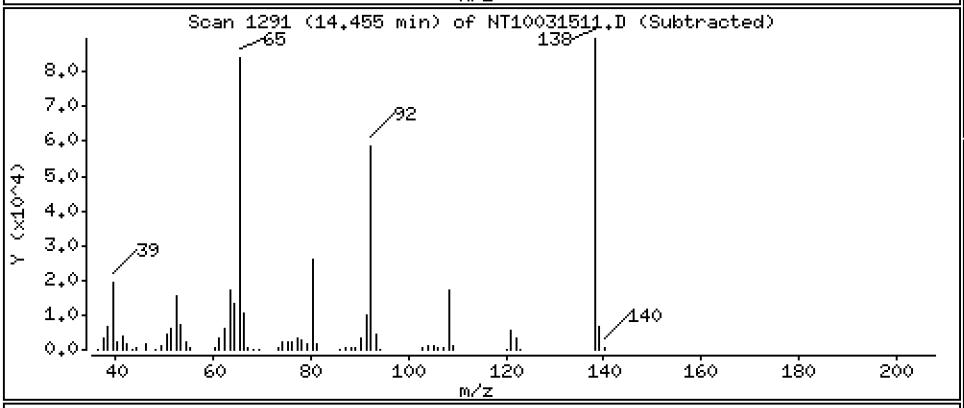
Column phase: ZB-5msi

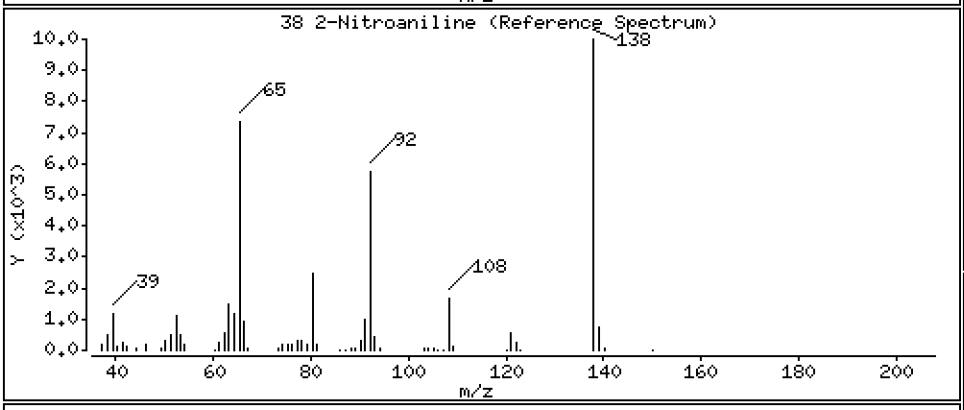
Column diameter: 0.25

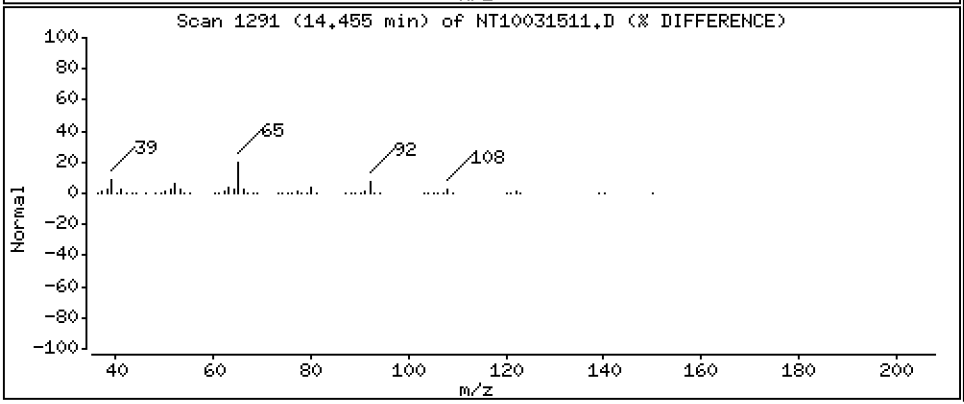
38 2-Nitroaniline

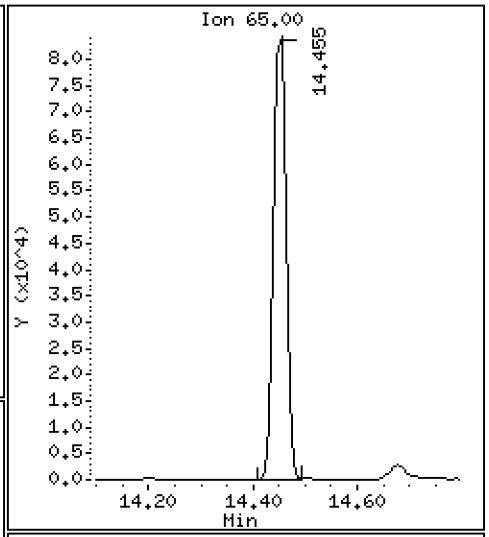
Concentration: 4.911 ug/mL

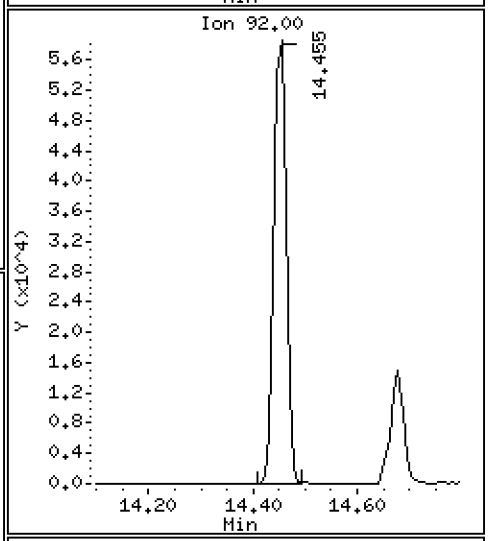


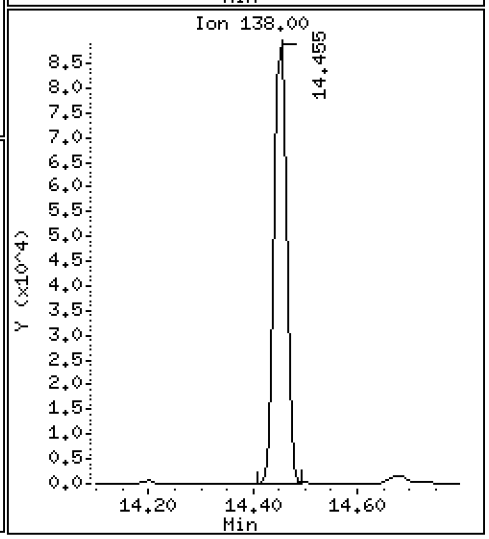












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

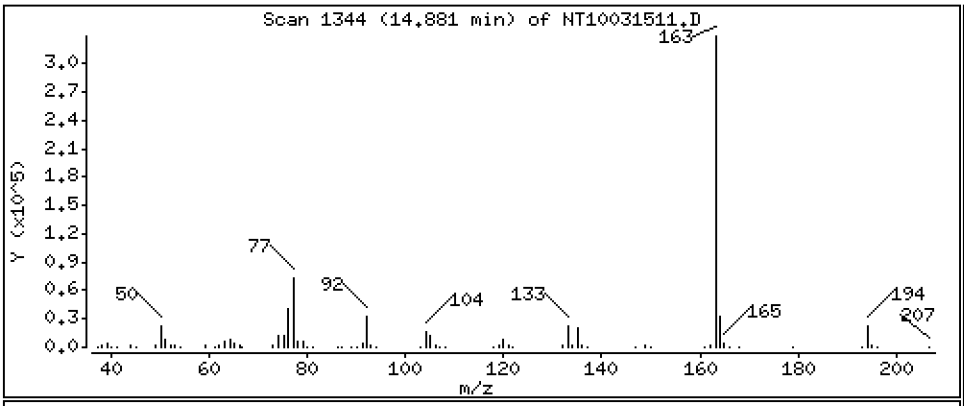
Operator: VTS

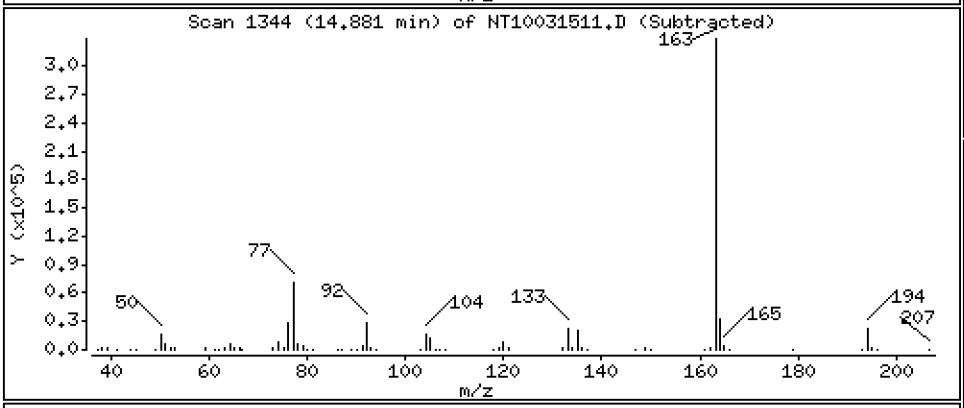
Column phase: ZB-5msi

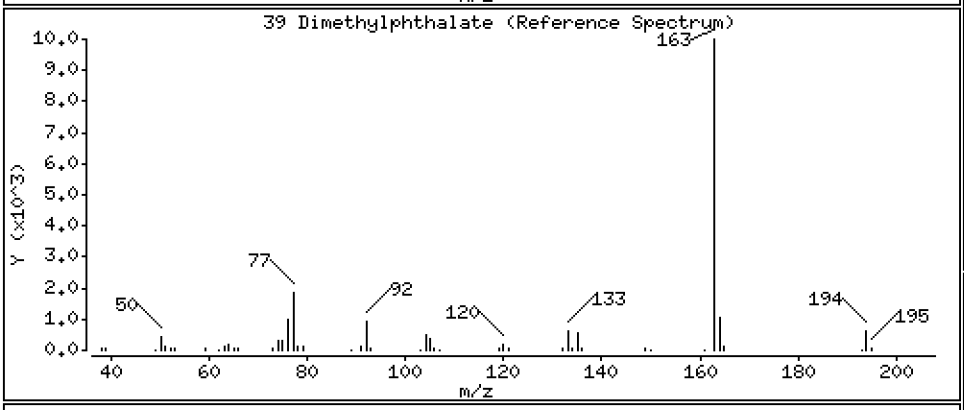
Column diameter: 0.25

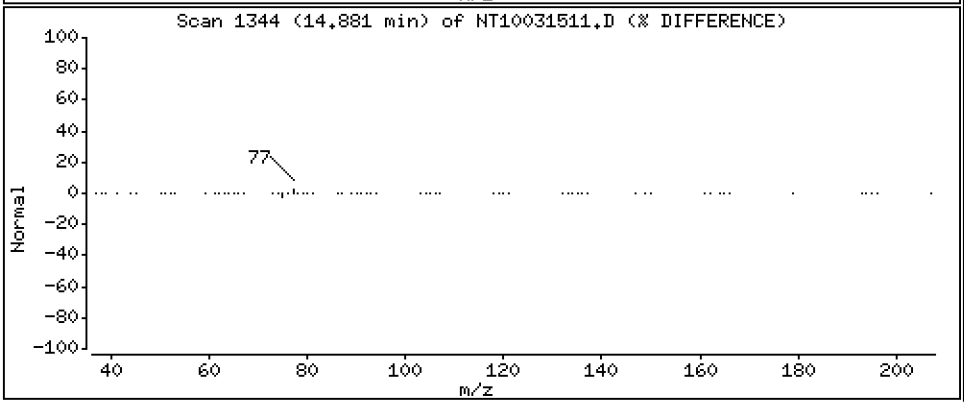
39 Dimethylphthalate

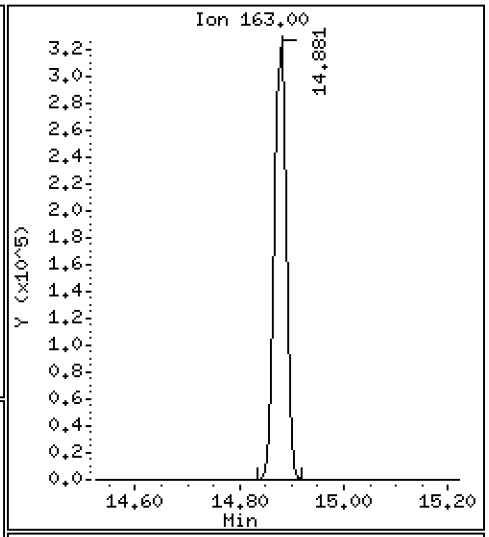
Concentration: 4.937 ug/mL

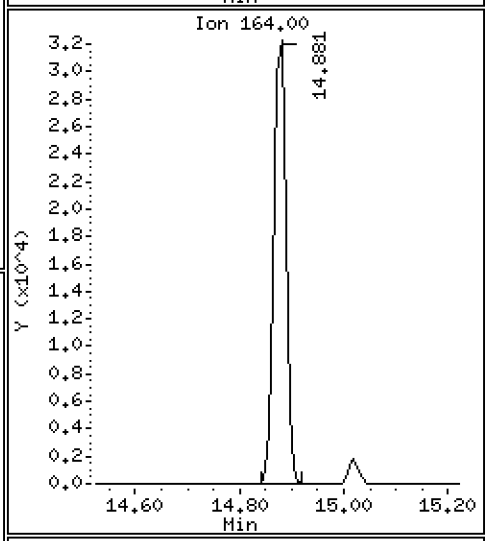


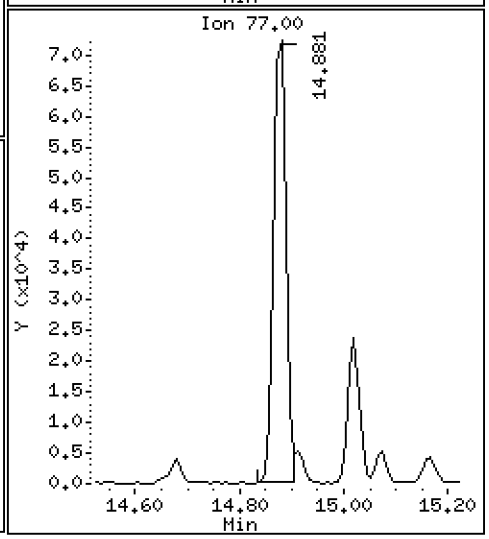












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

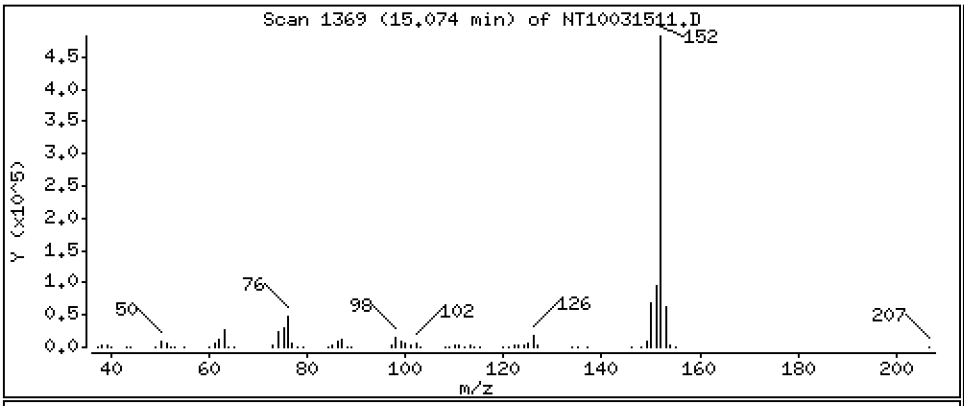
Operator: VTS

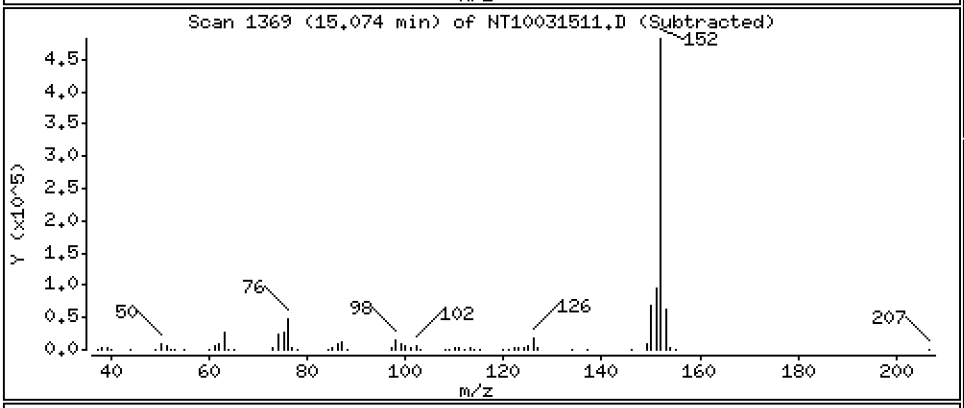
Column phase: ZB-5msi

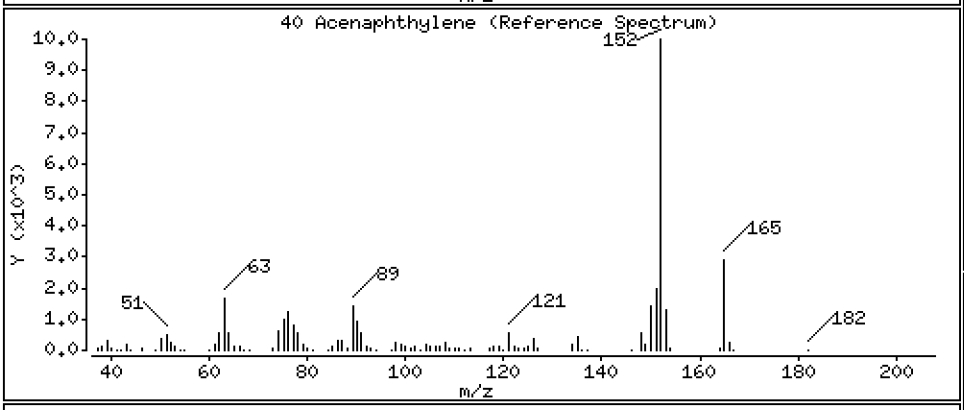
Column diameter: 0.25

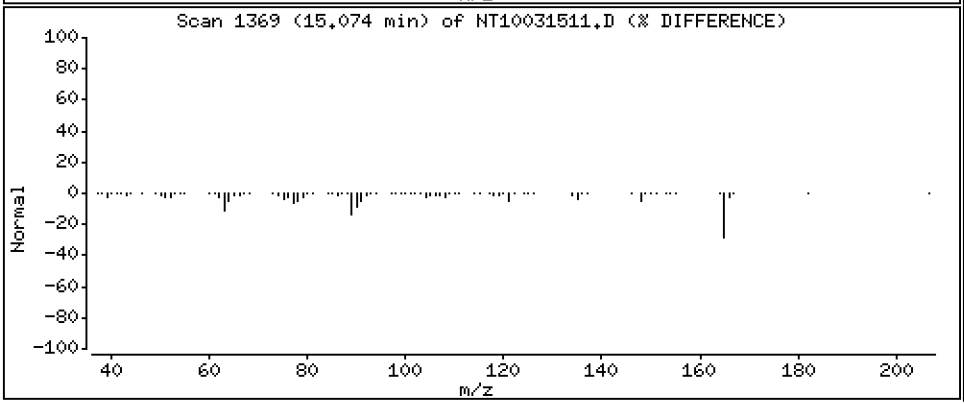
40 Acenaphthylene

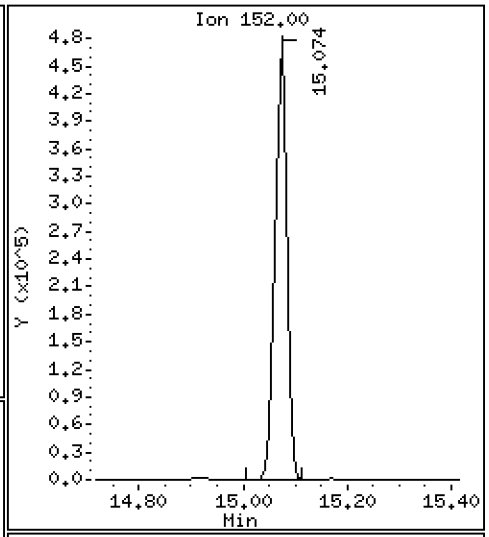
Concentration: 4.805 ug/mL

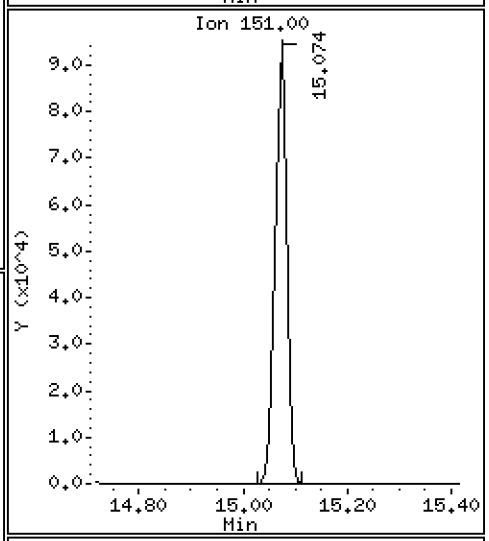


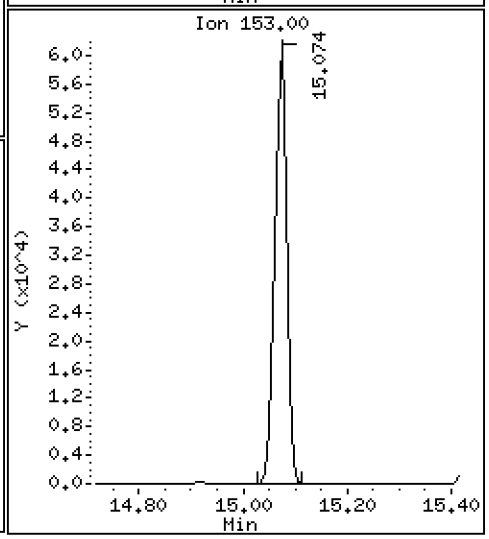












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

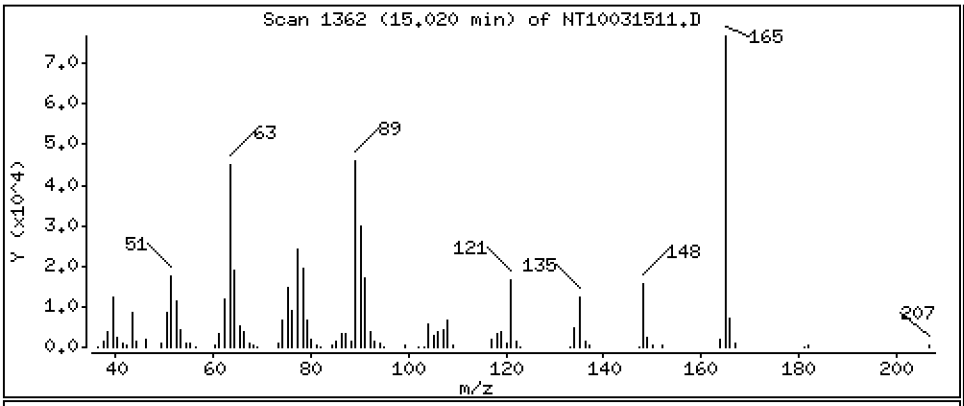
Operator: VTS

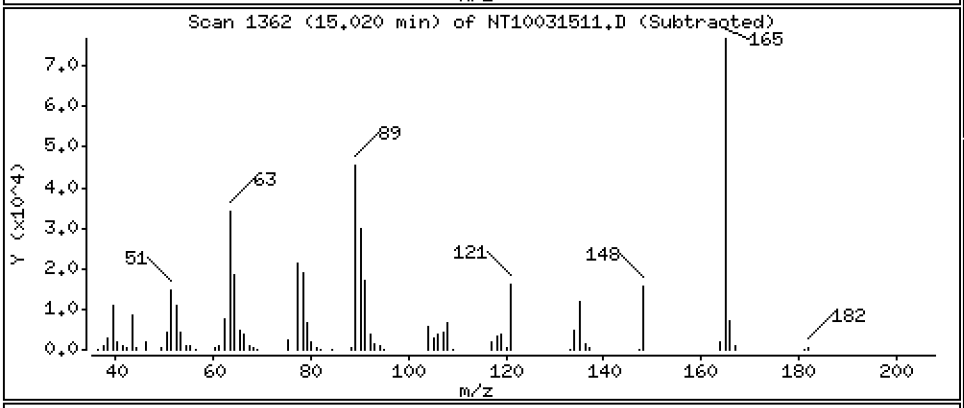
Column phase: ZB-5msi

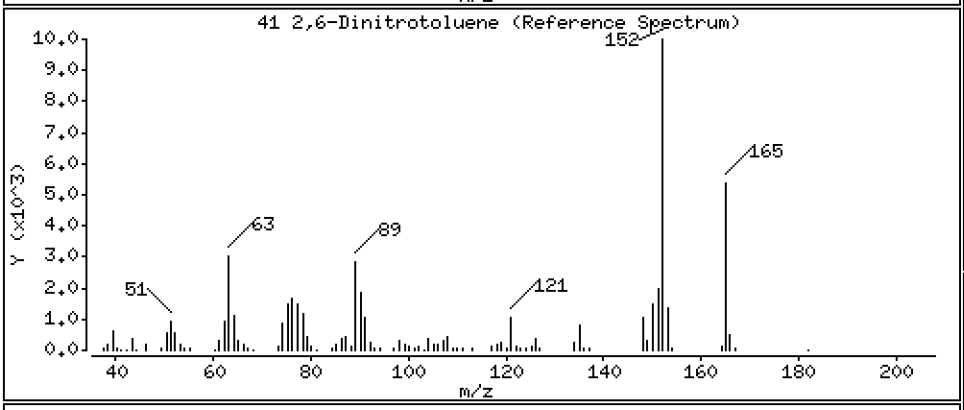
Column diameter: 0.25

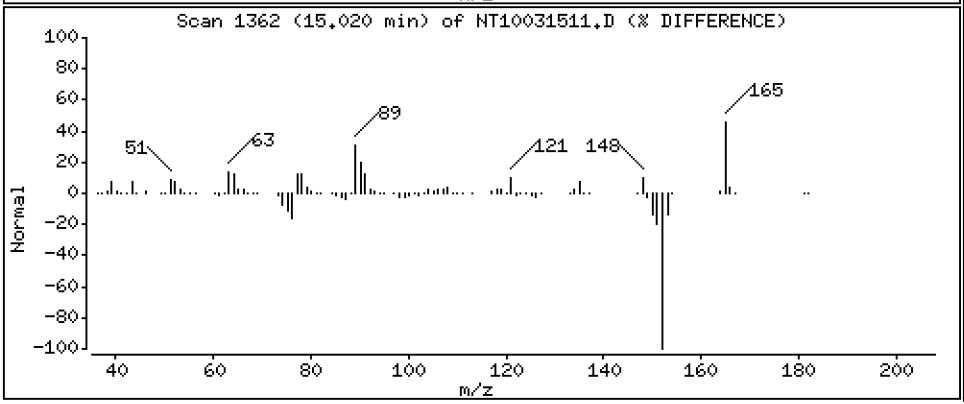
41 2,6-Dinitrotoluene

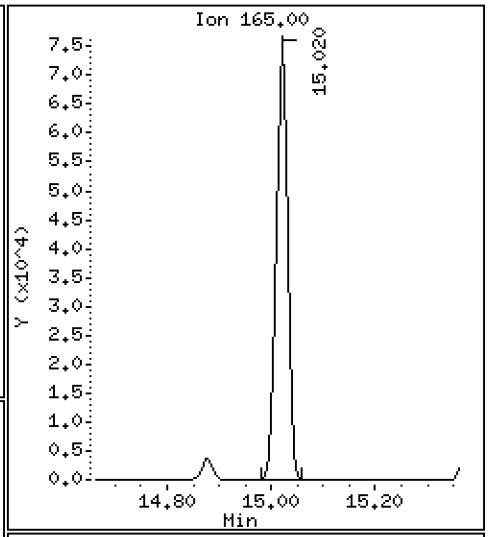
Concentration: 5.298 ug/mL

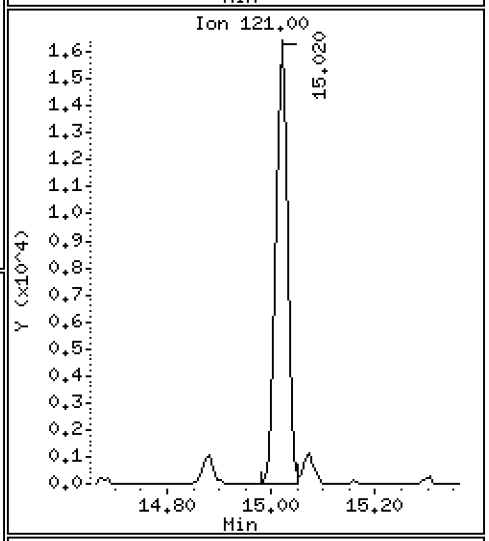


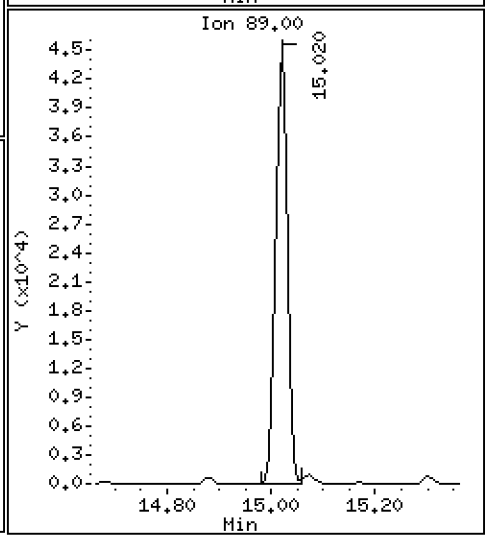












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

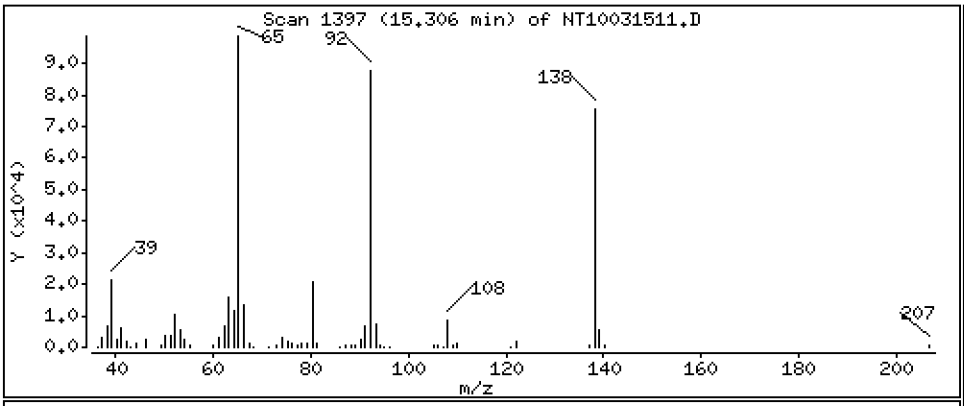
Operator: VTS

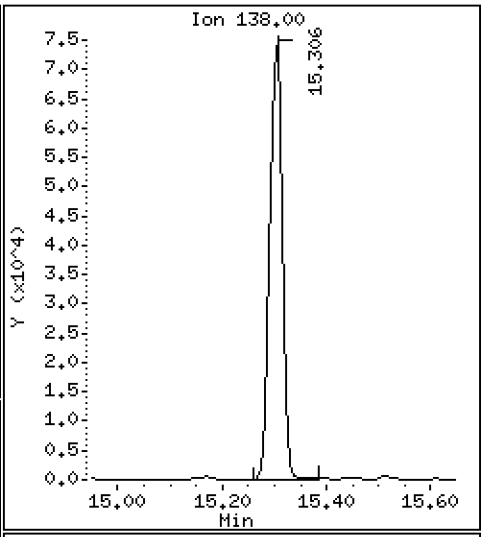
Column phase: ZB-5msi

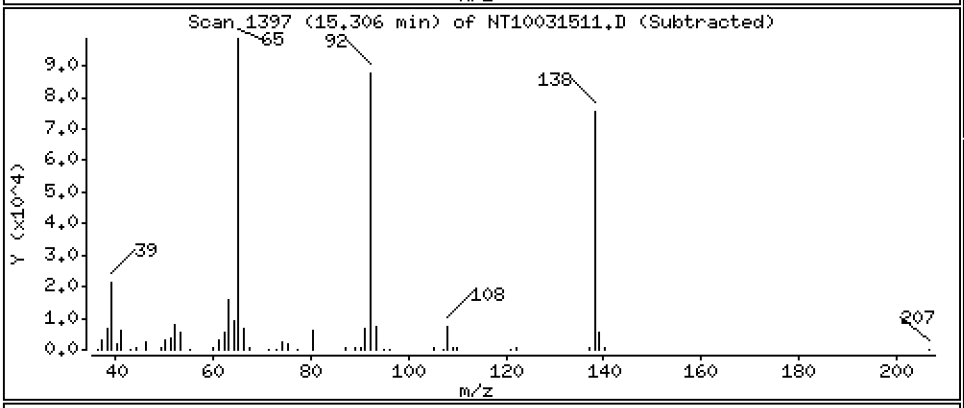
Column diameter: 0.25

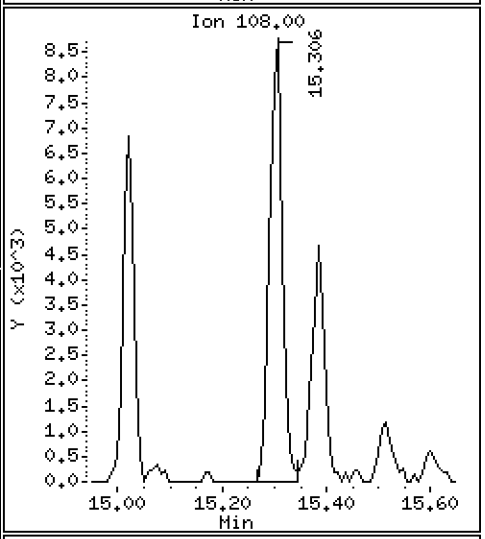
43 3-Nitroaniline

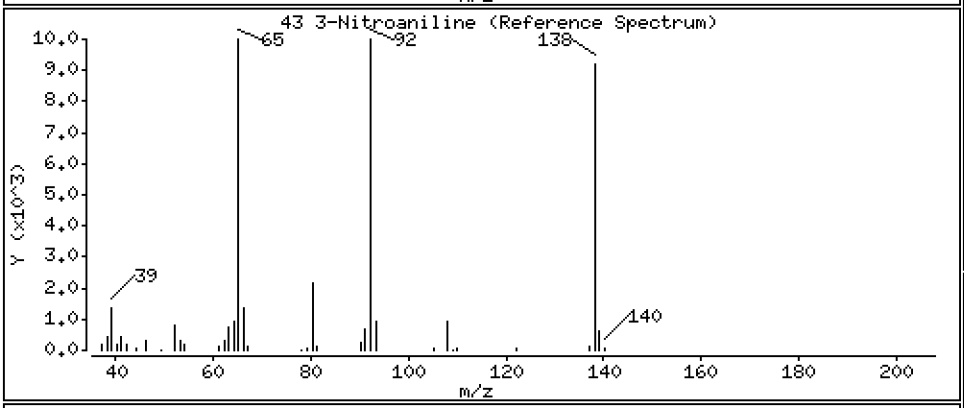
Concentration: 5.014 ug/mL

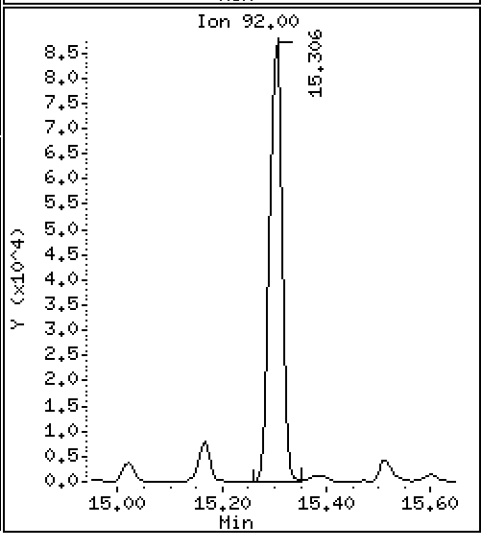


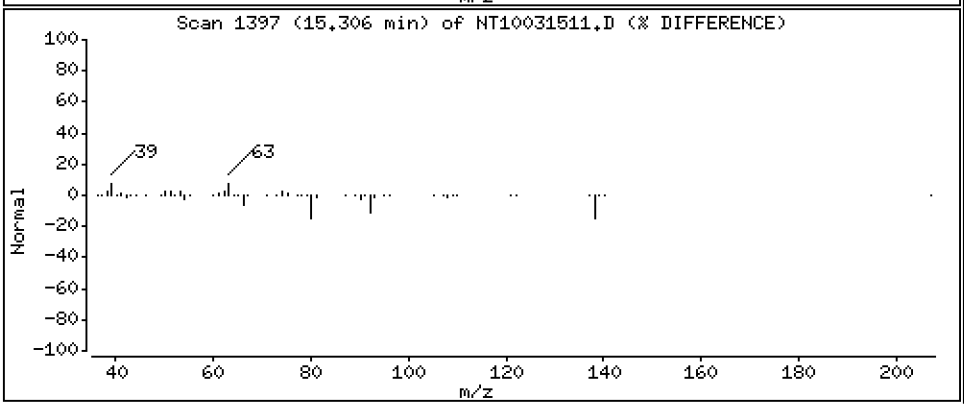












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

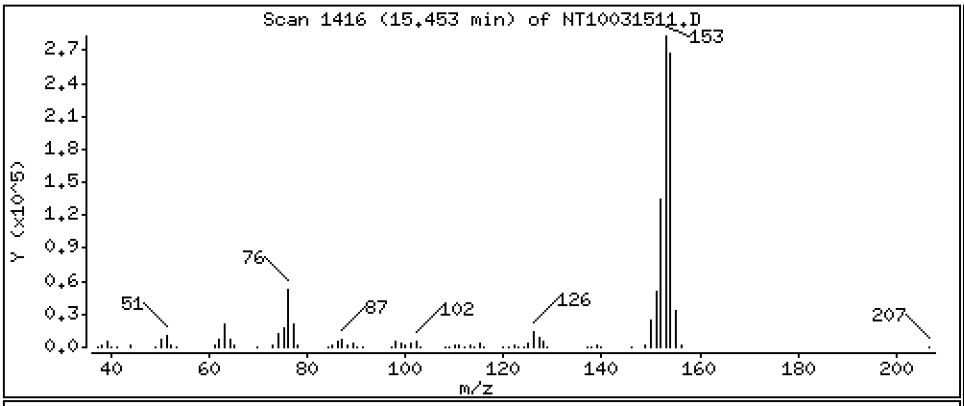
Operator: VTS

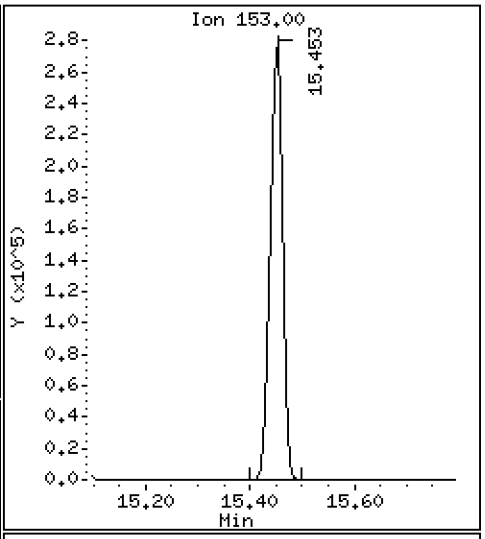
Column phase: ZB-5msi

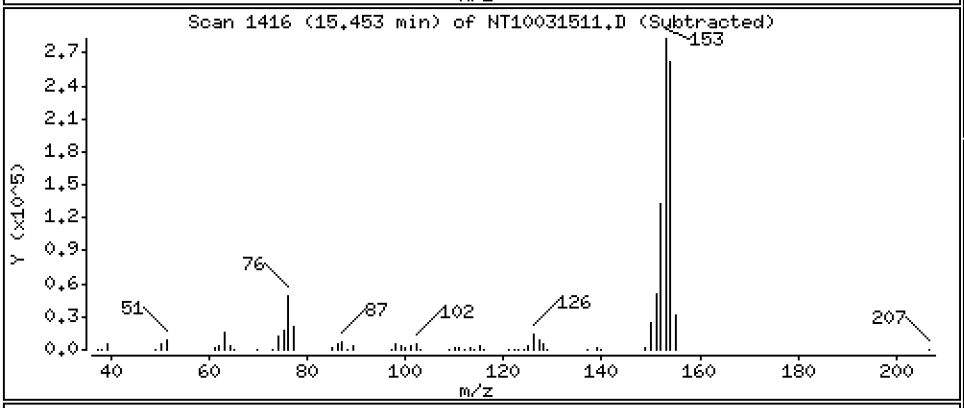
Column diameter: 0.25

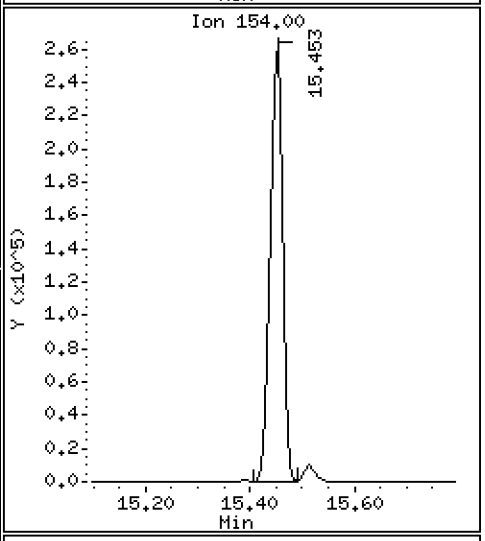
44 Acenaphthene

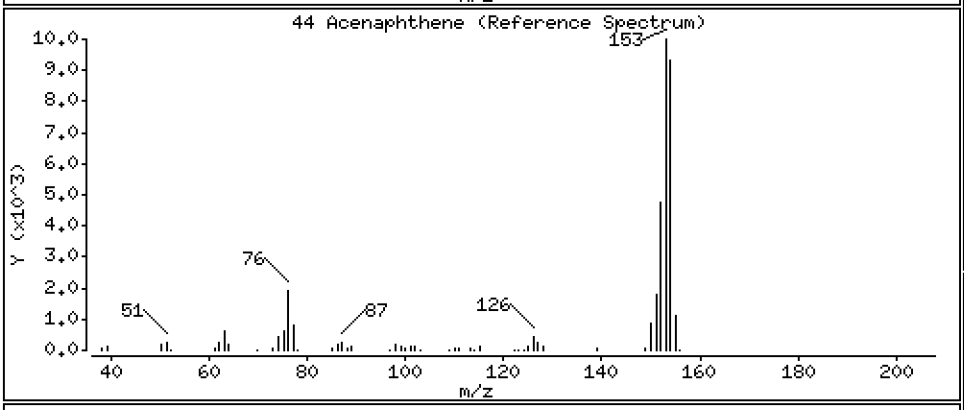
Concentration: 4.776 ug/mL

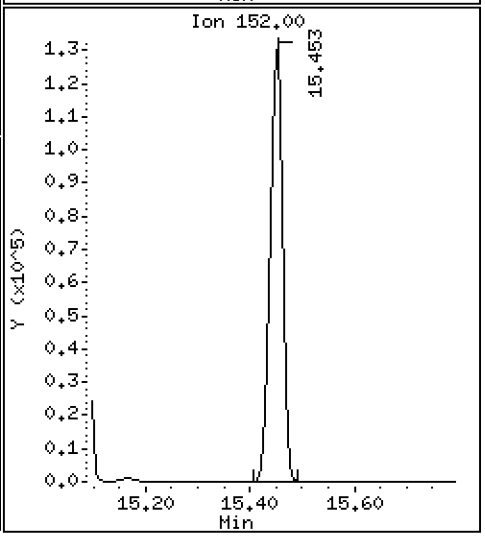


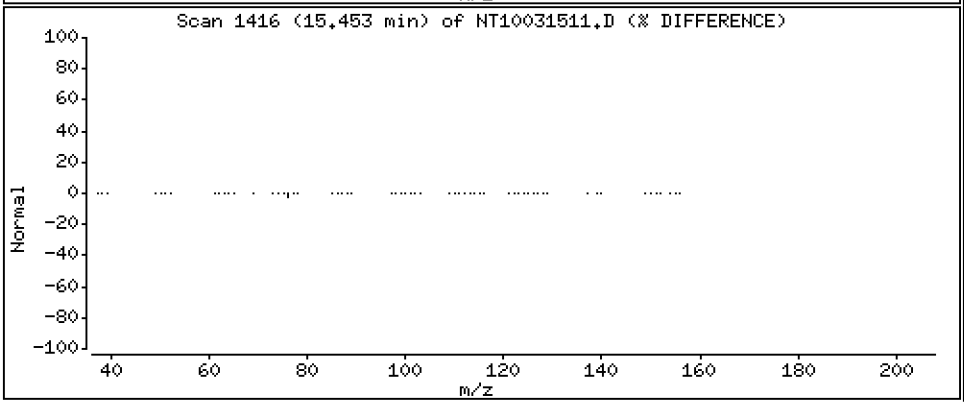












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

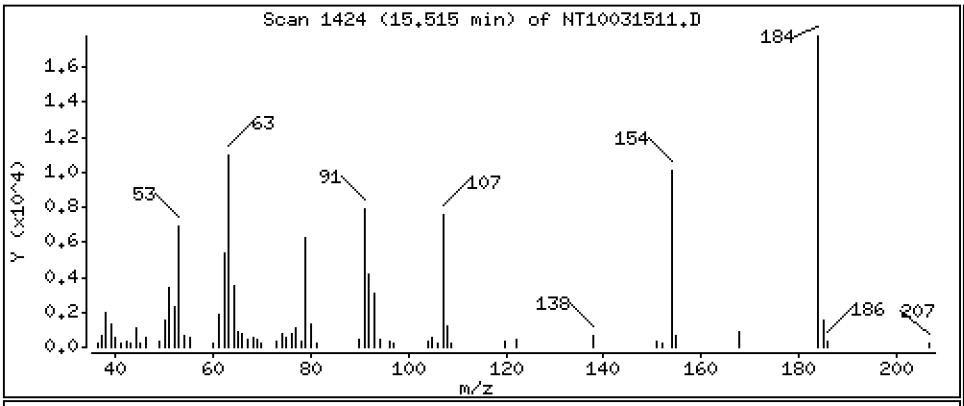
Operator: VTS

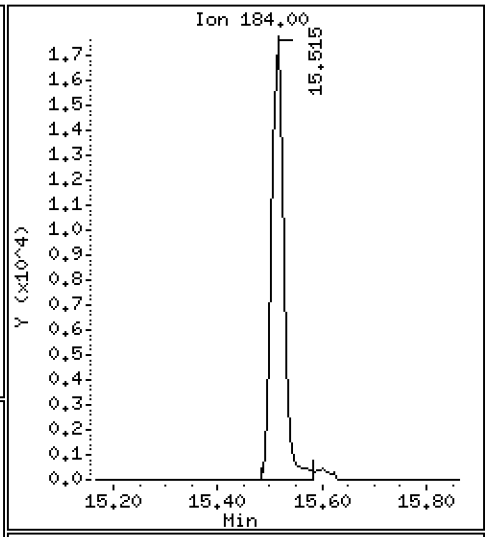
Column phase: ZB-5msi

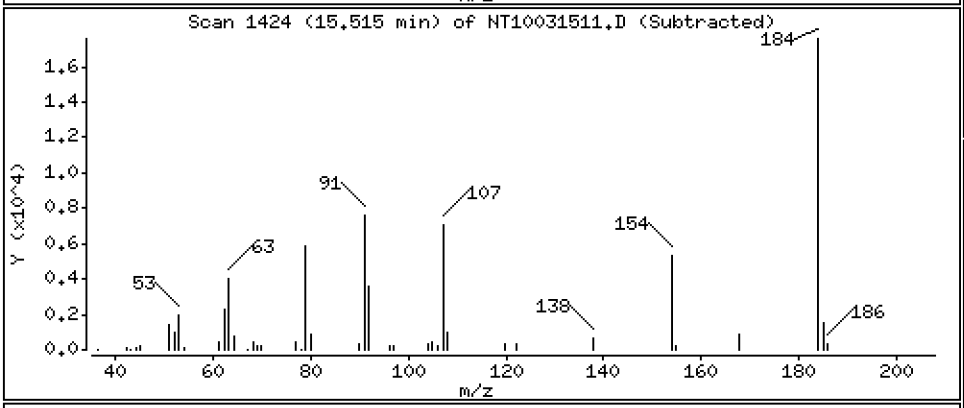
Column diameter: 0.25

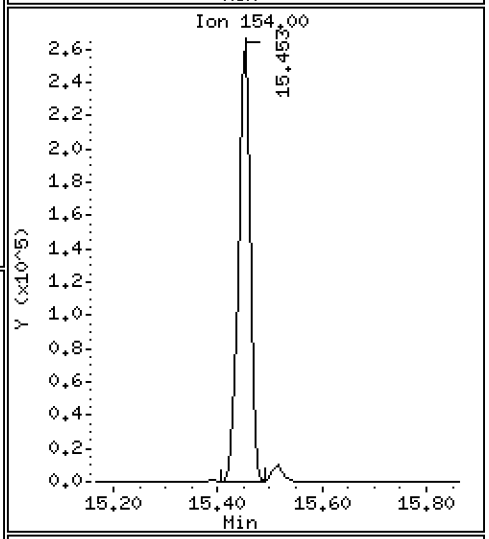
45 2,4-Dinitrophenol

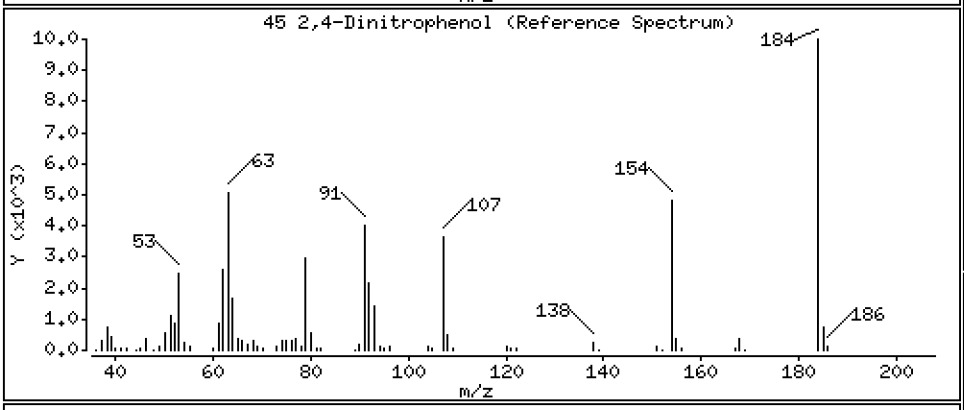
Concentration: 2.124 ug/mL

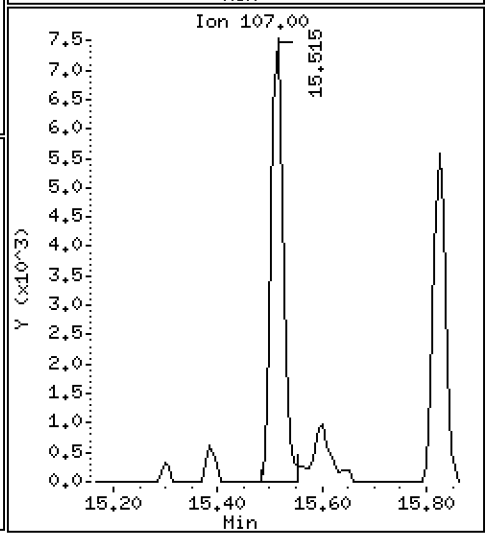


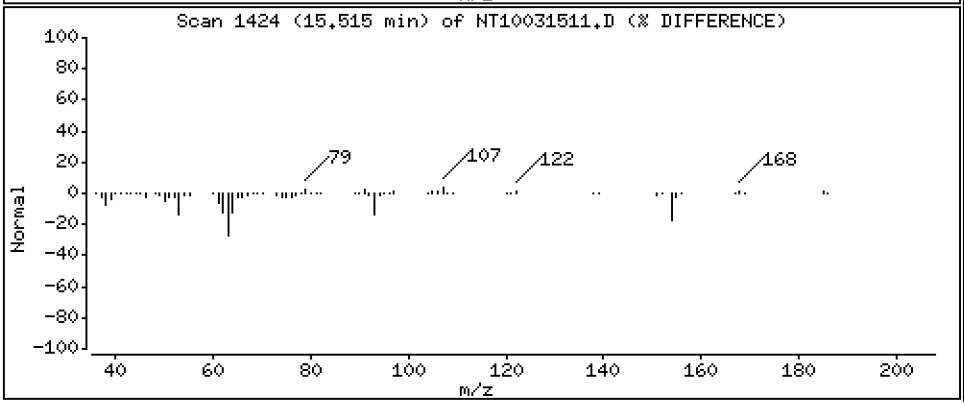












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

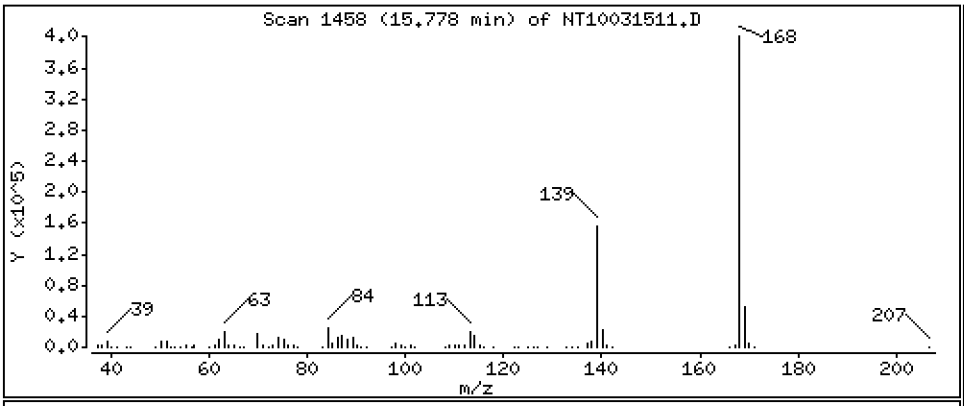
Operator: VTS

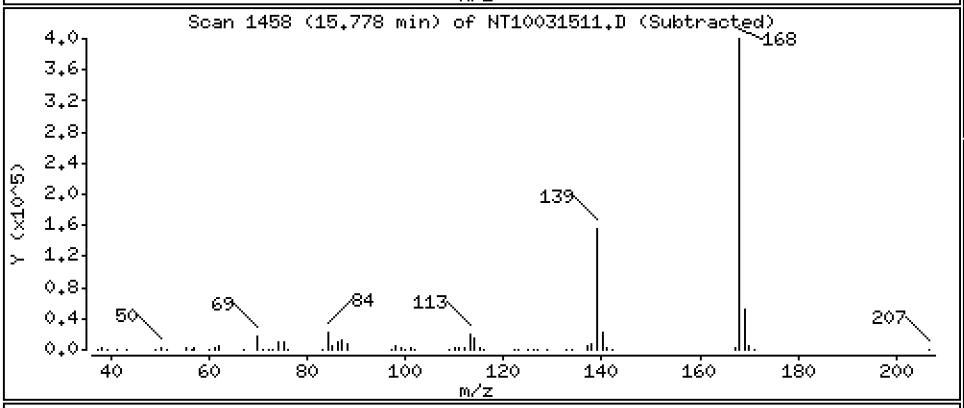
Column phase: ZB-5msi

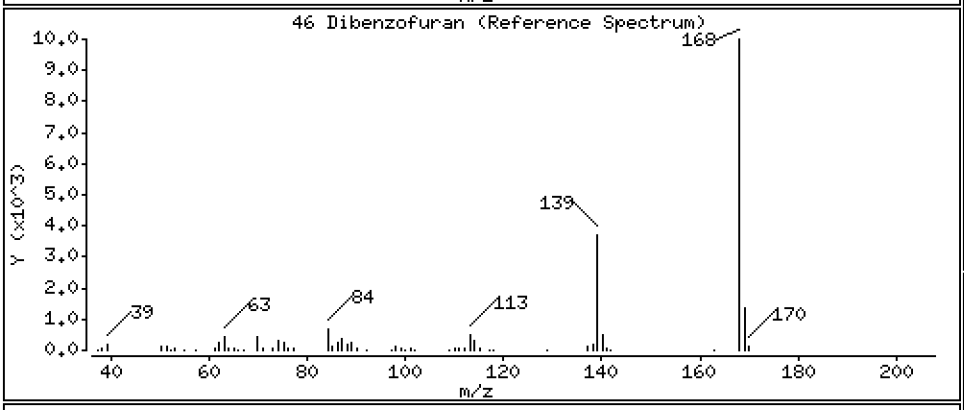
Column diameter: 0.25

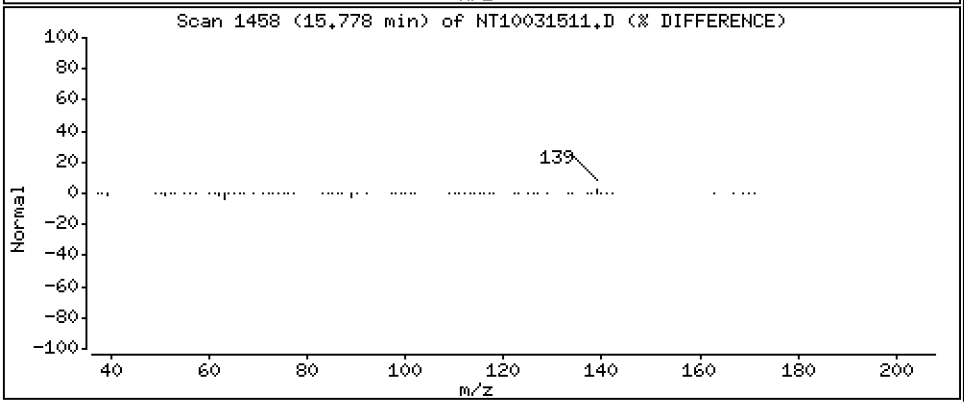
46 Dibenzofuran

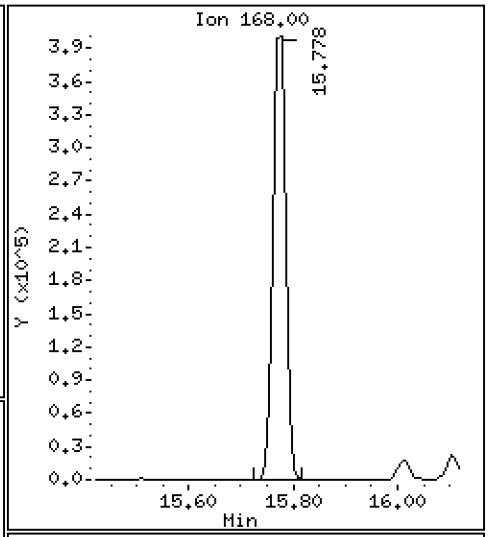
Concentration: 4.648 ug/mL

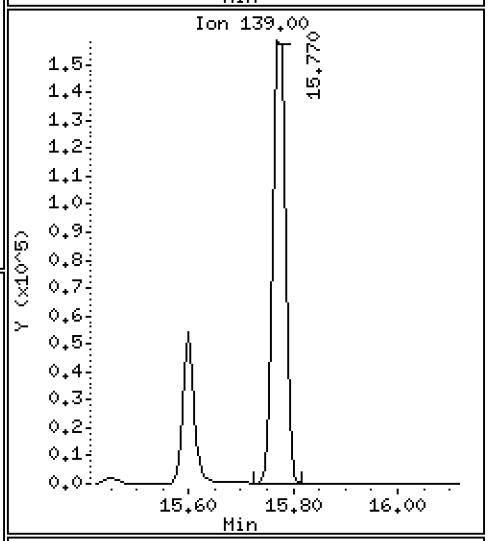


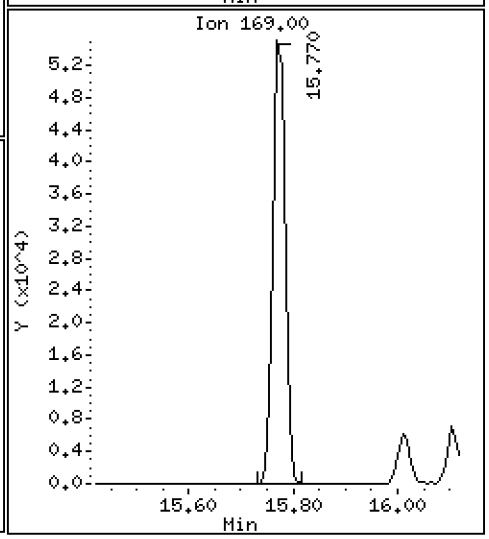












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

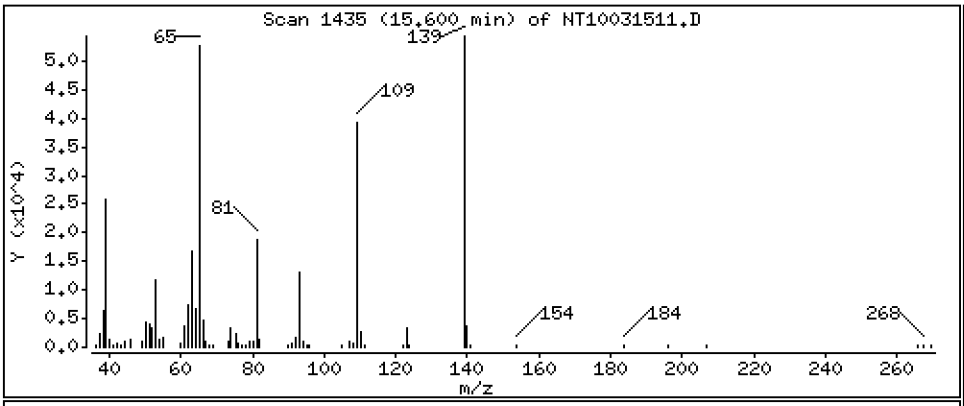
Operator: VTS

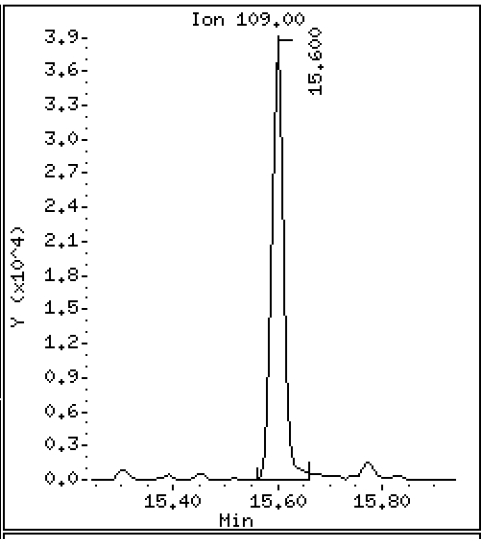
Column phase: ZB-5msi

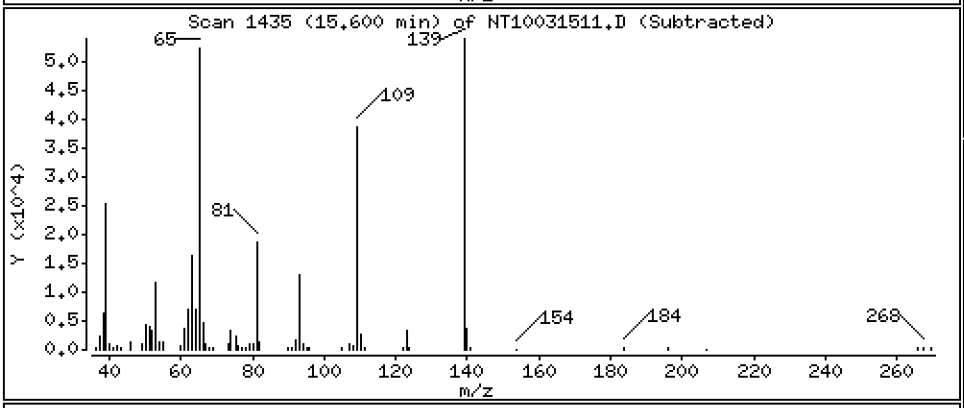
Column diameter: 0.25

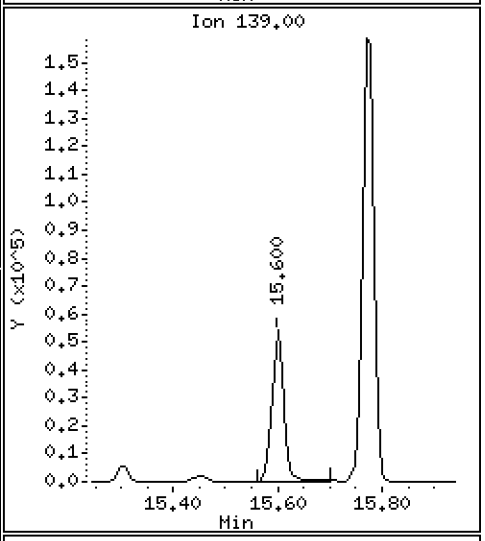
47 4-Nitrophenol

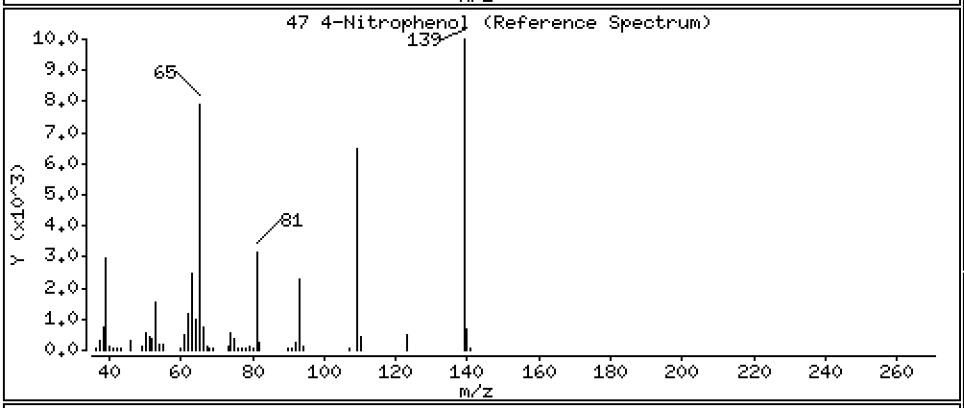
Concentration: 3.966 ug/mL

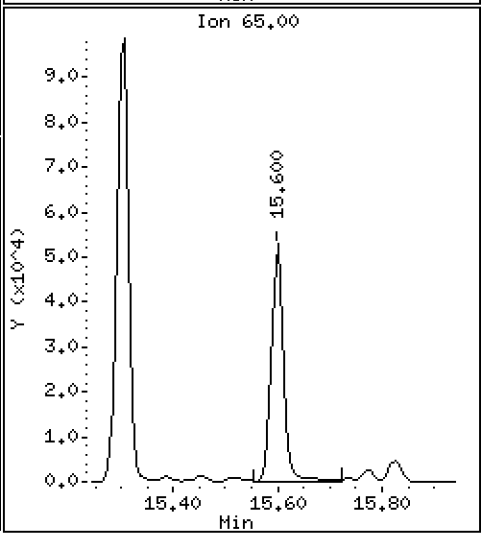


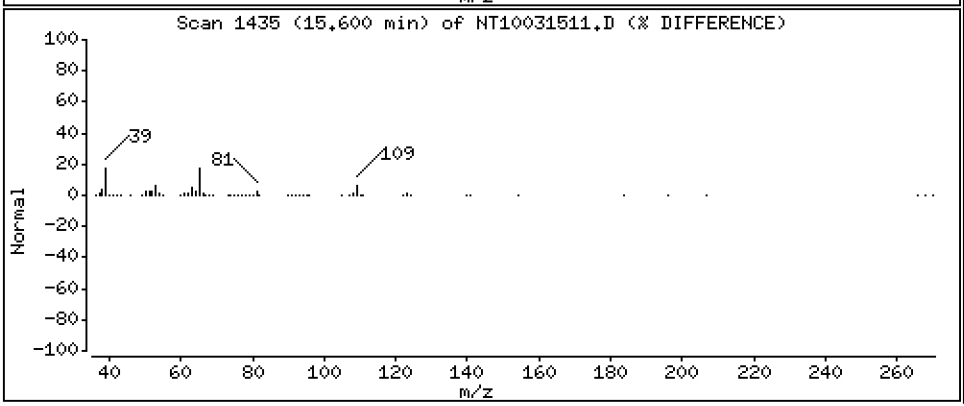












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

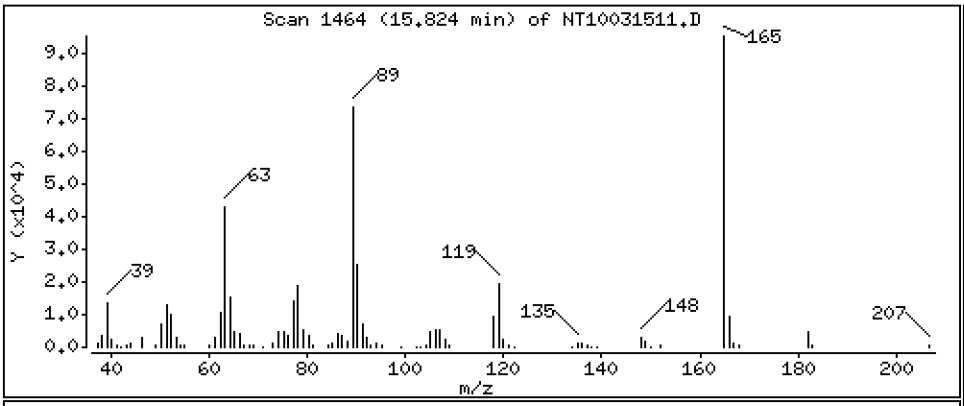
Operator: VTS

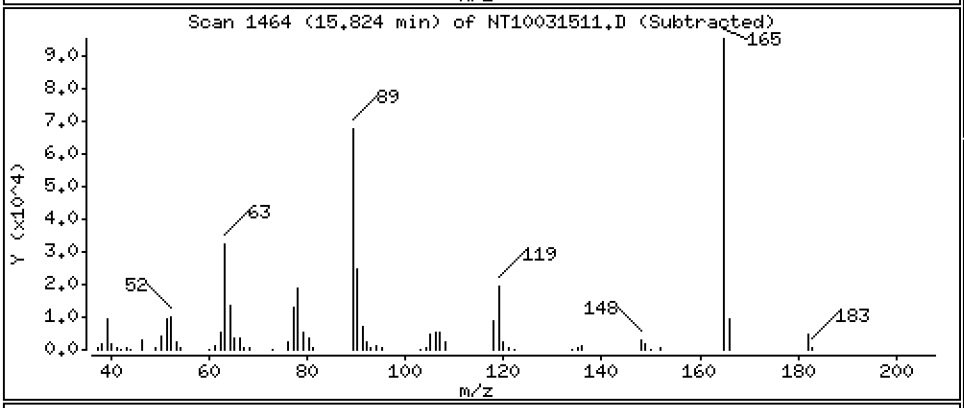
Column phase: ZB-5msi

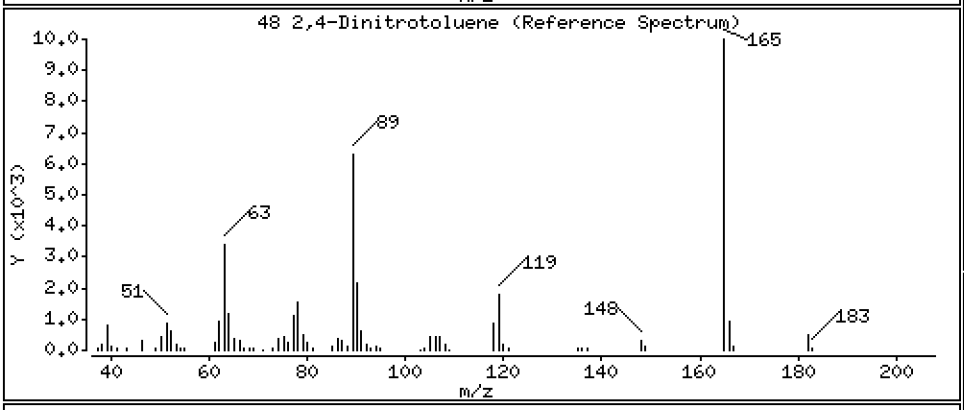
Column diameter: 0.25

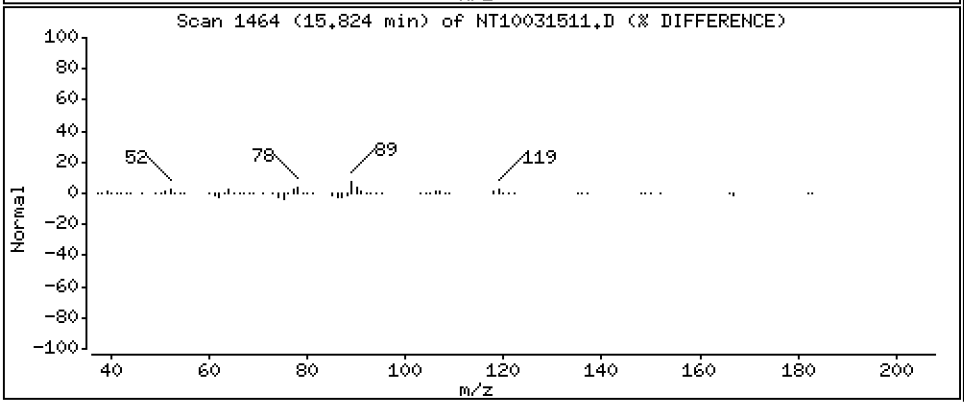
48 2,4-Dinitrotoluene

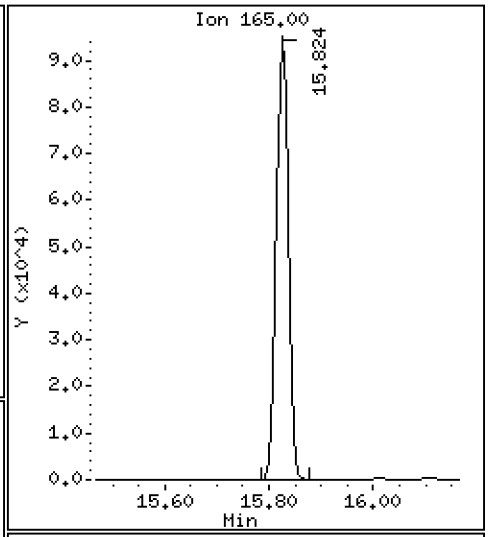
Concentration: 4.510 ug/mL

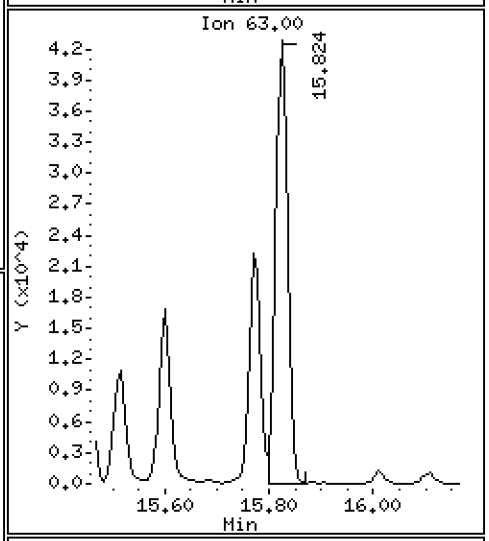


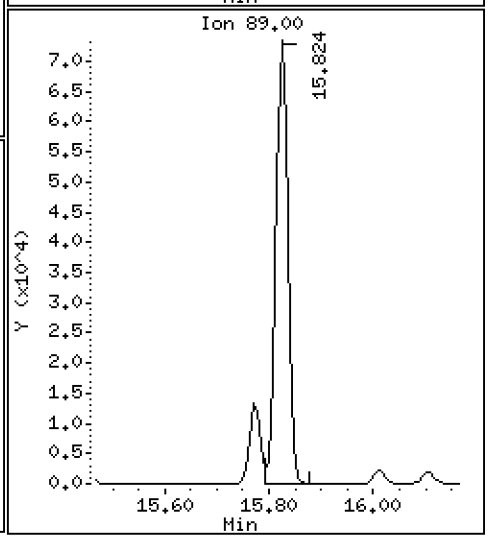












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

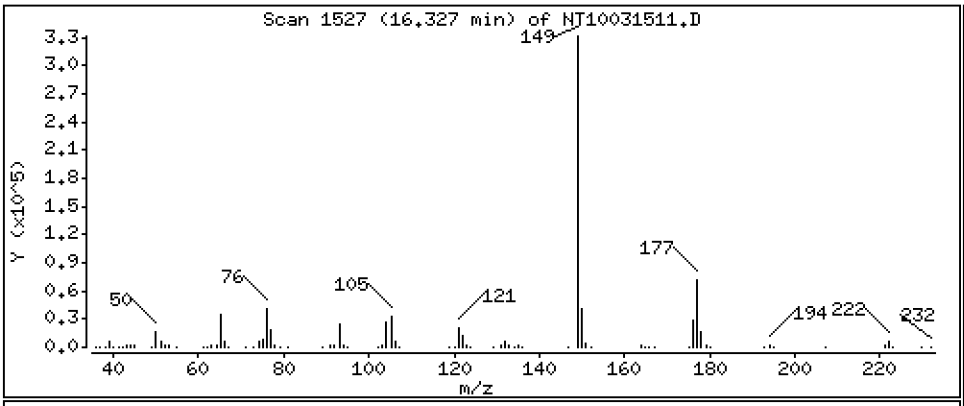
Operator: VTS

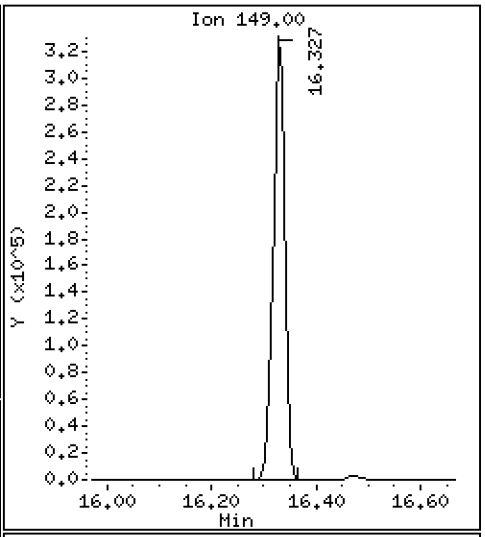
Column phase: ZB-5msi

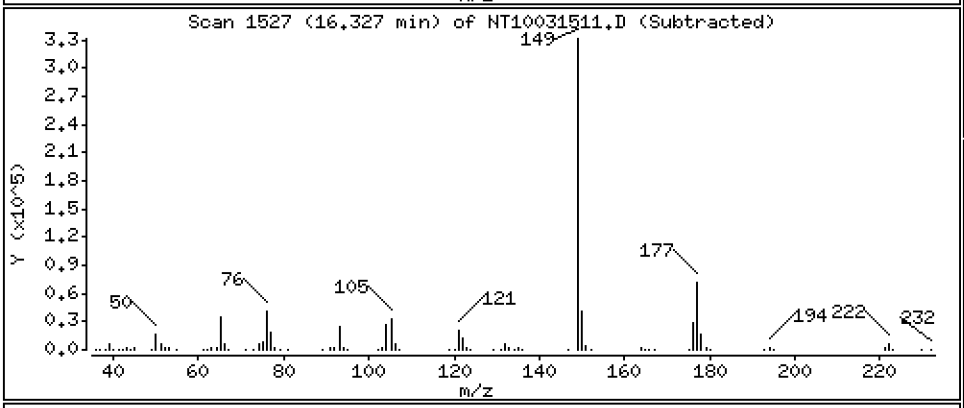
Column diameter: 0.25

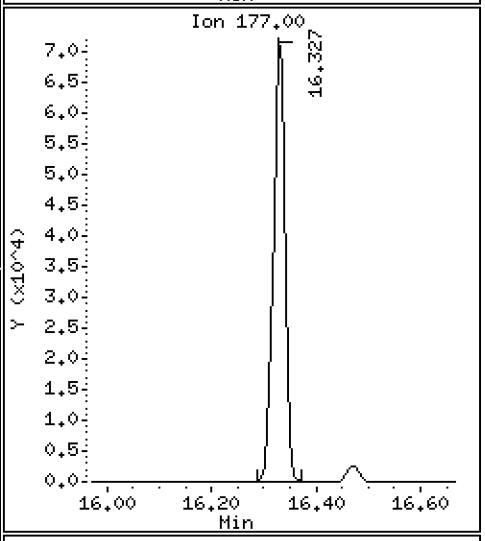
50 Diethylphthalate

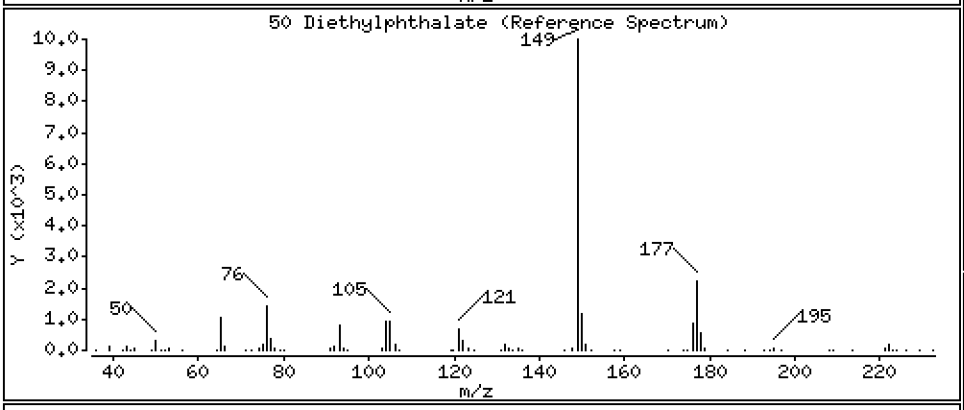
Concentration: 5.209 ug/mL

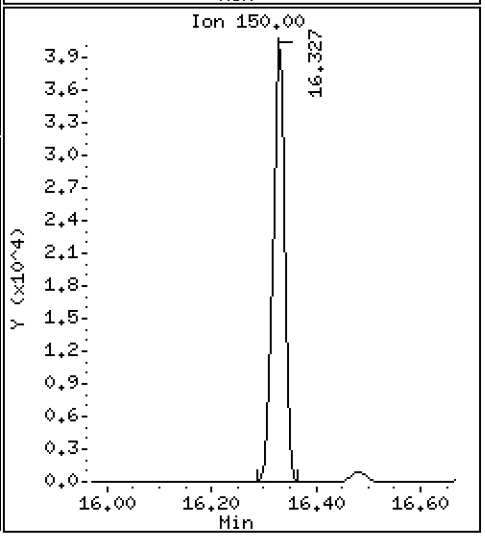


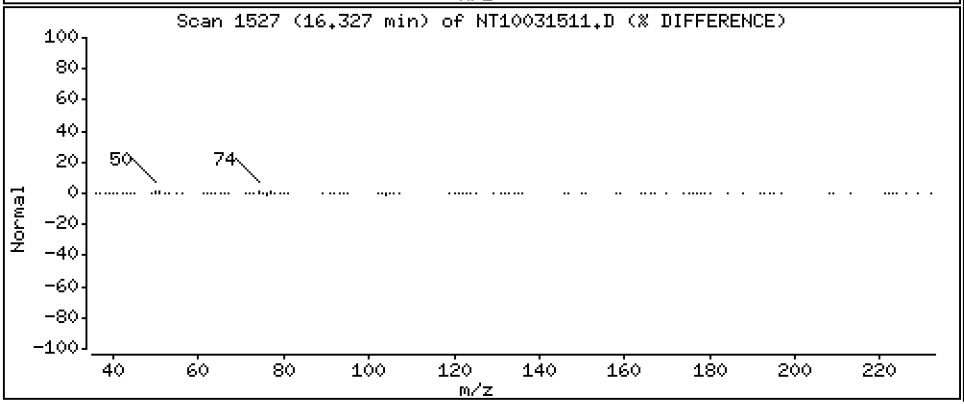












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

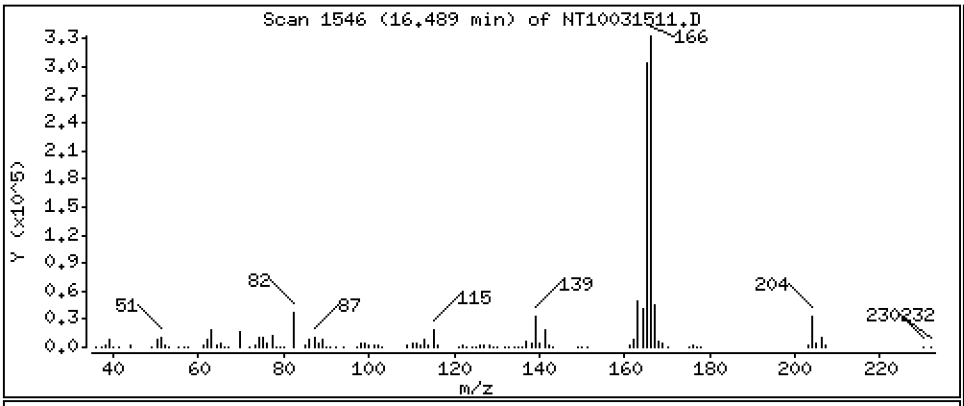
Operator: VTS

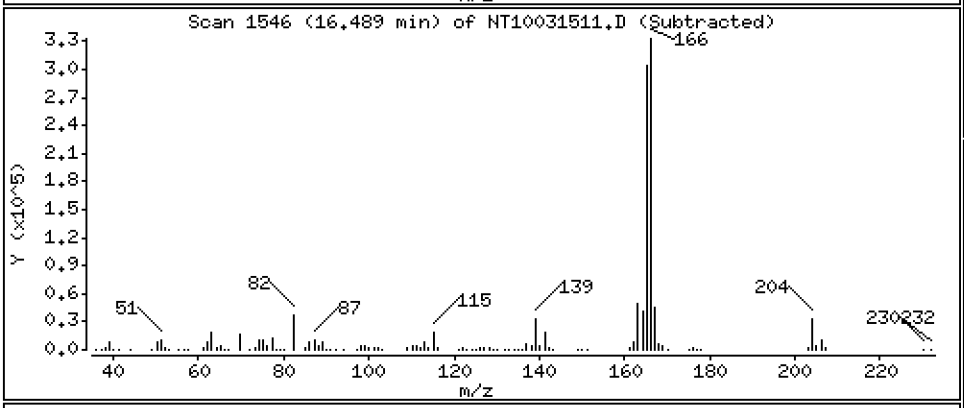
Column phase: ZB-5msi

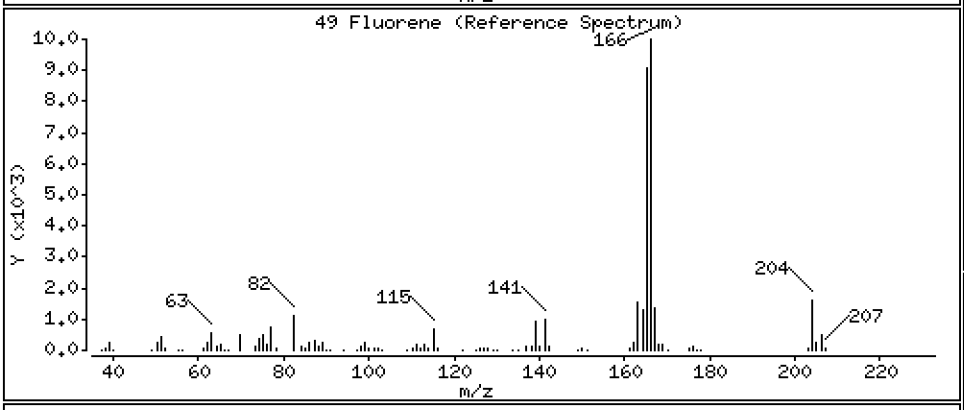
Column diameter: 0.25

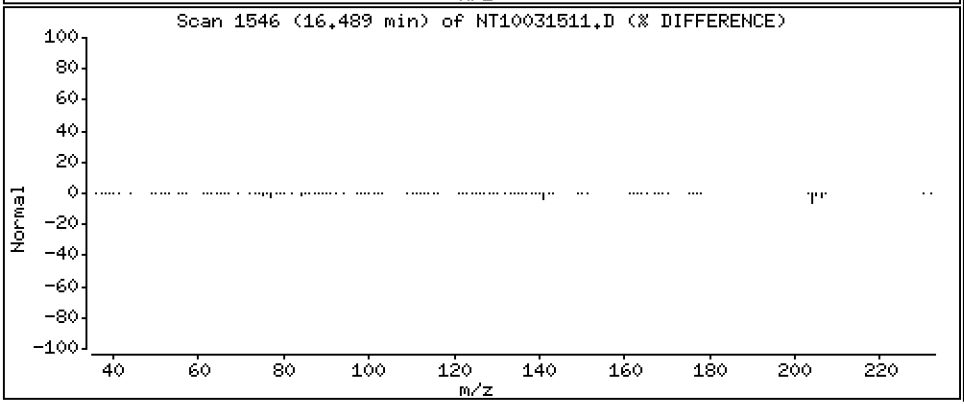
49 Fluorene

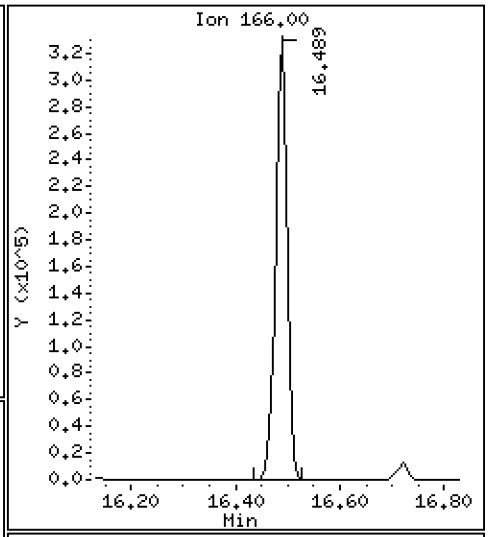
Concentration: 4.708 ug/mL

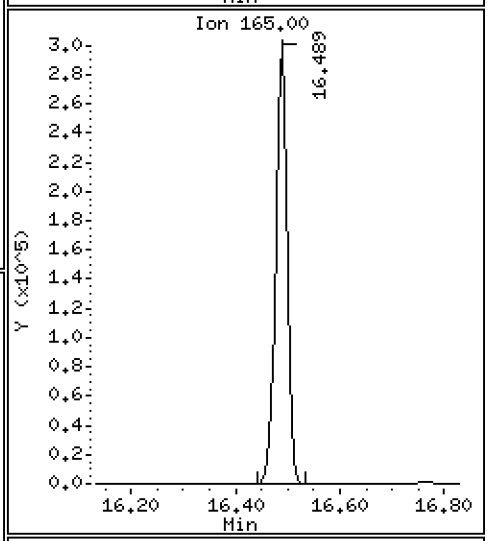


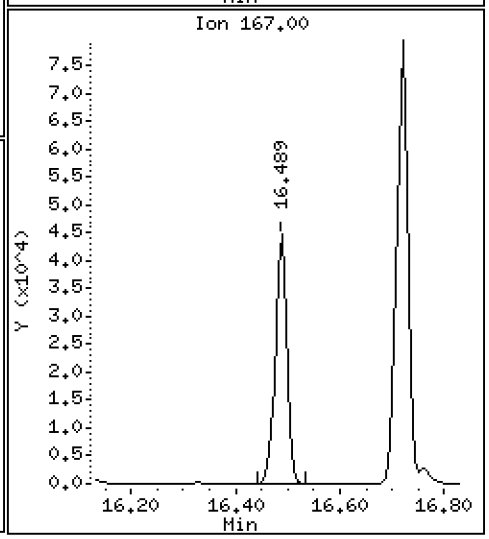












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

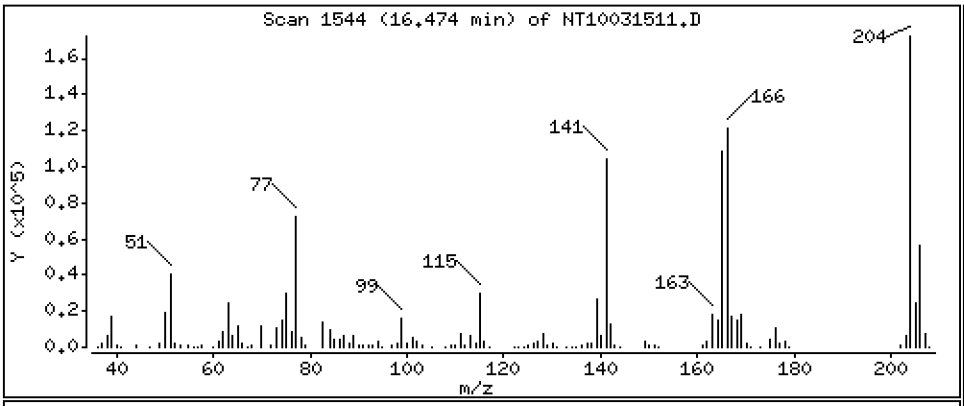
Operator: VTS

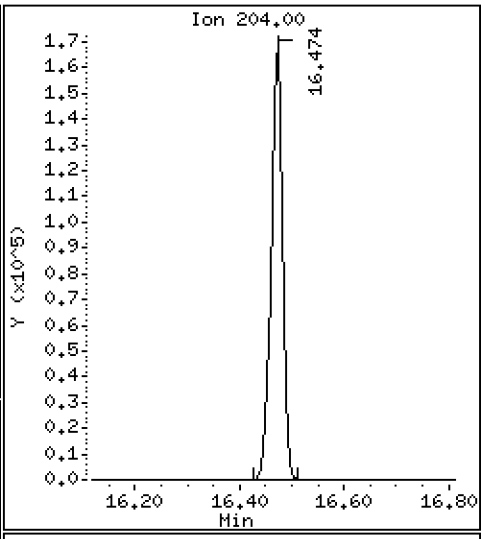
Column phase: ZB-5msi

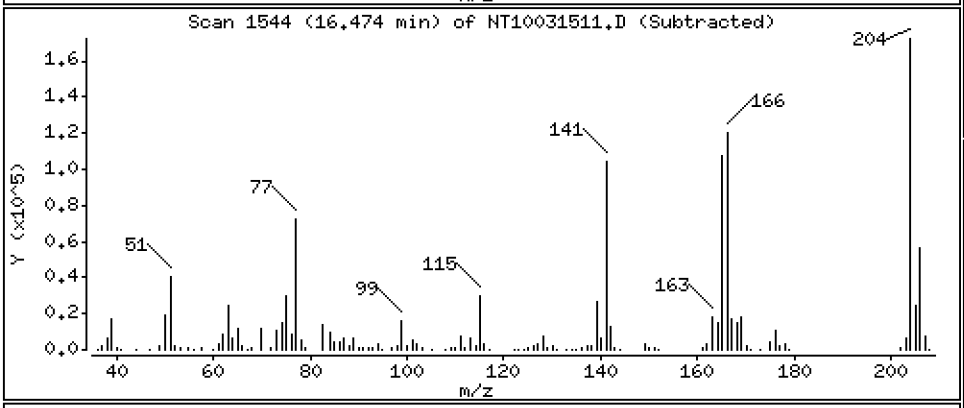
Column diameter: 0.25

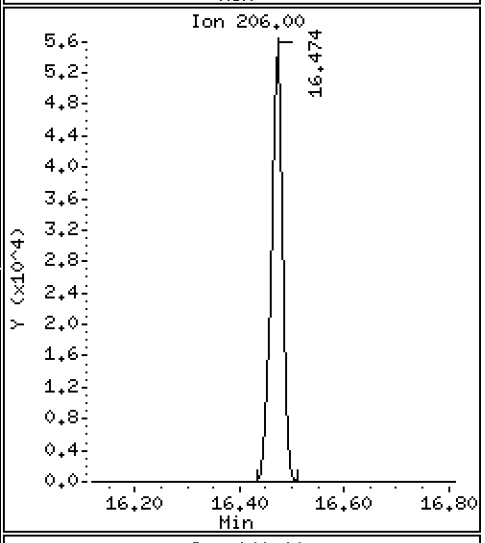
51 4-Chlorophenyl-phenylether

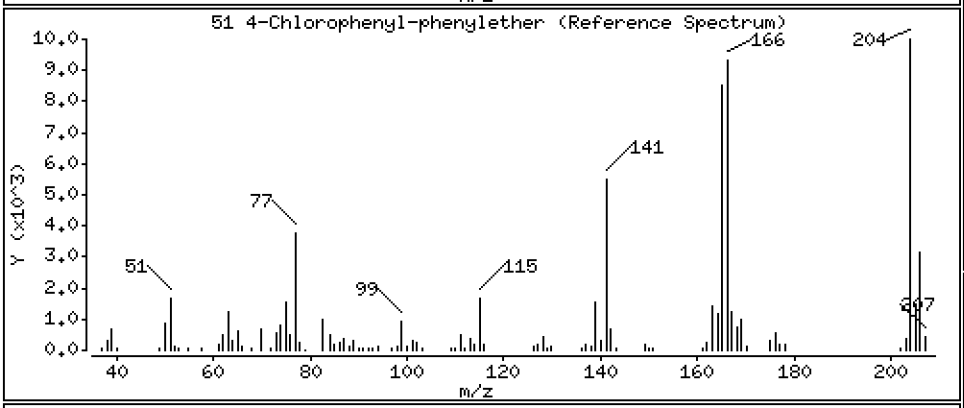
Concentration: 4.993 ug/mL

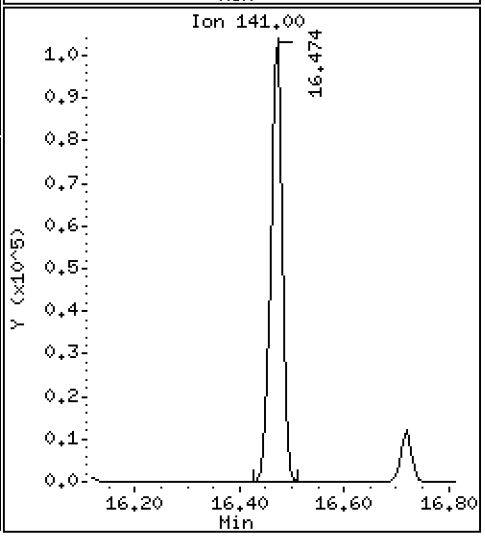


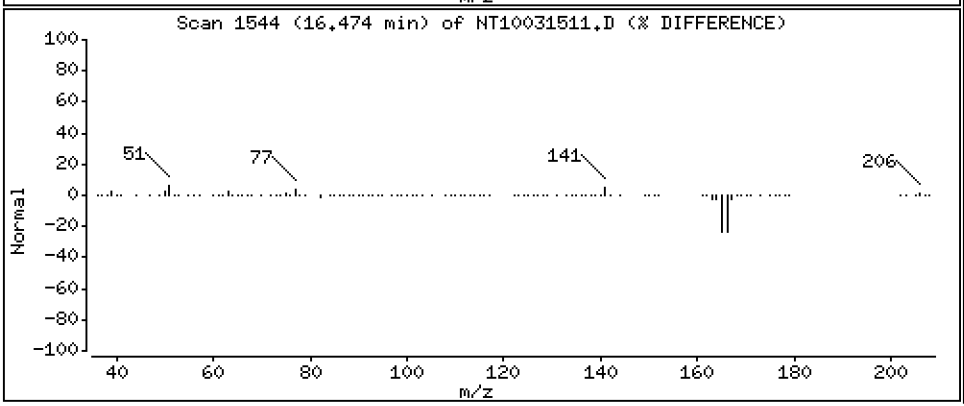












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

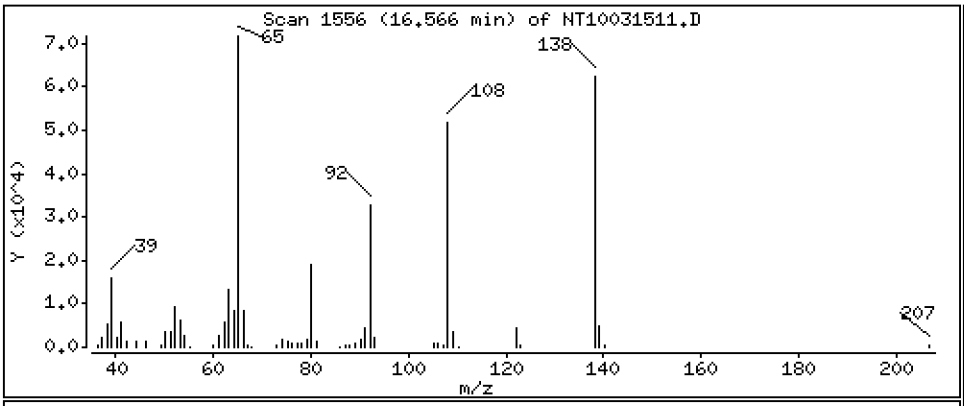
Operator: VTS

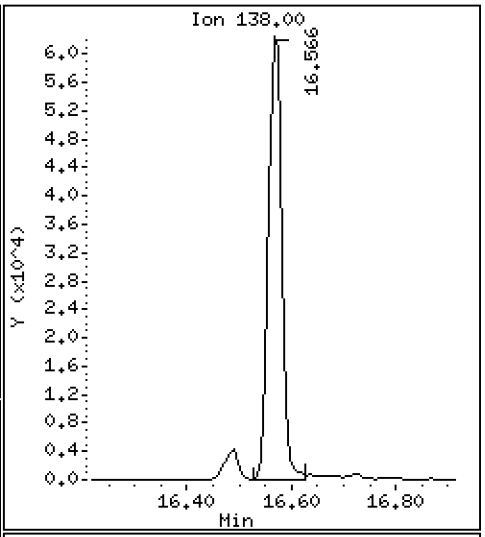
Column phase: ZB-5msi

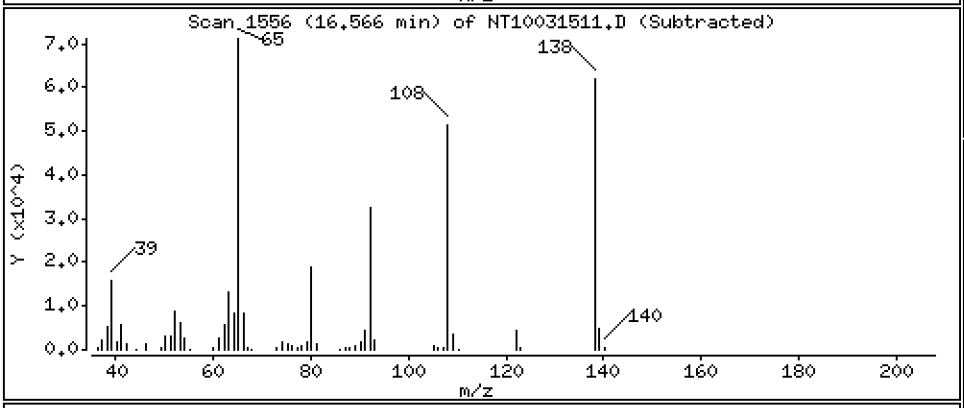
Column diameter: 0.25

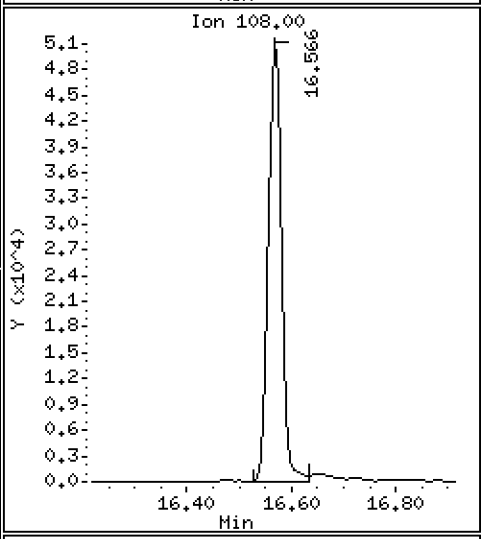
52 4-Nitroaniline

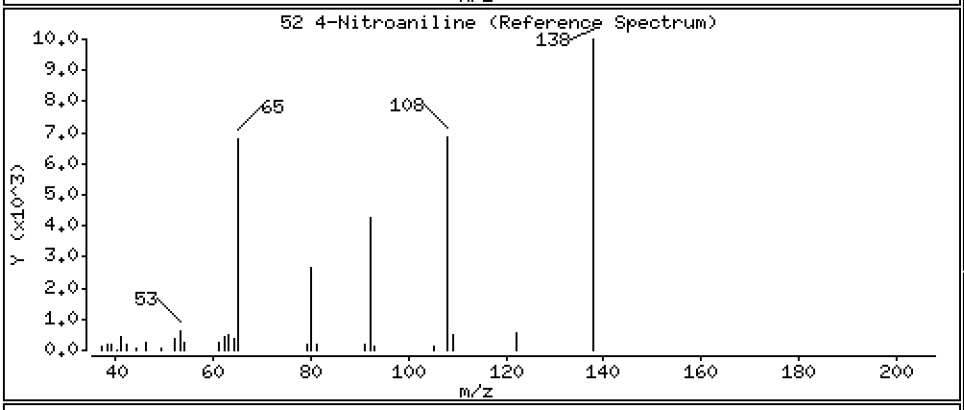
Concentration: 4.925 ug/mL

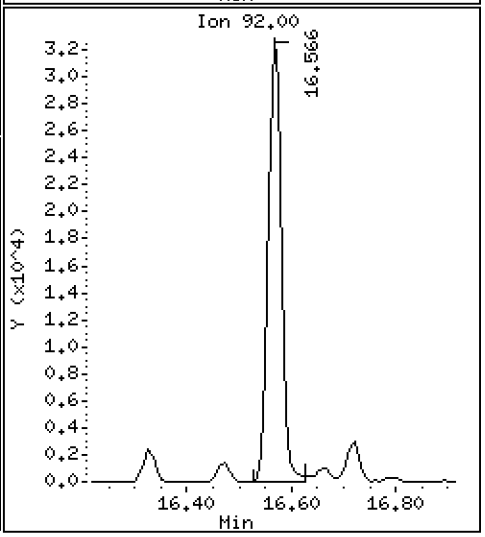


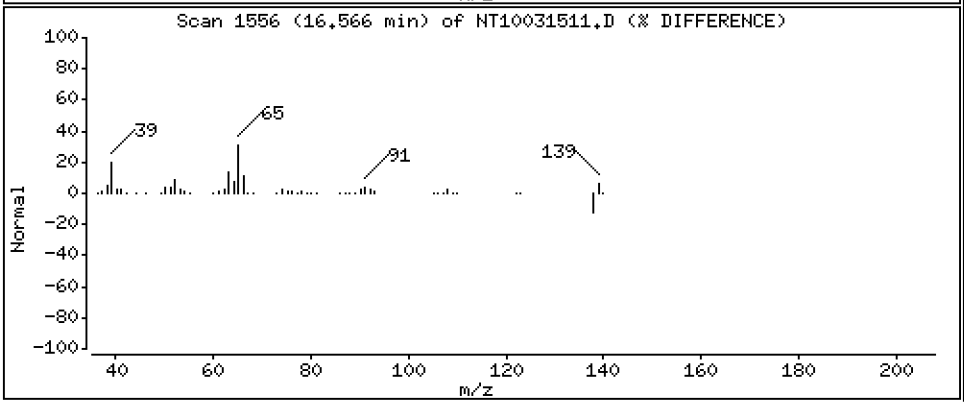












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

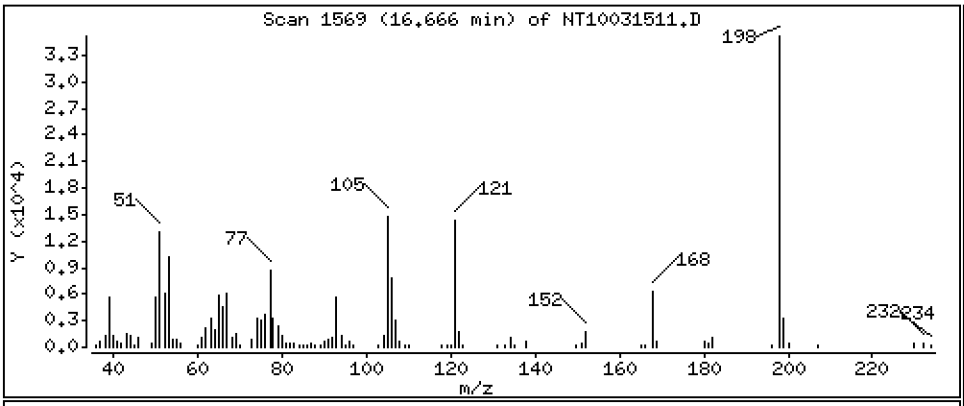
Operator: VTS

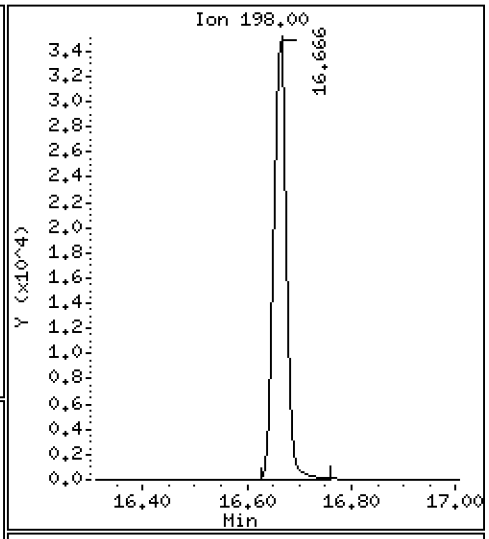
Column phase: ZB-5msi

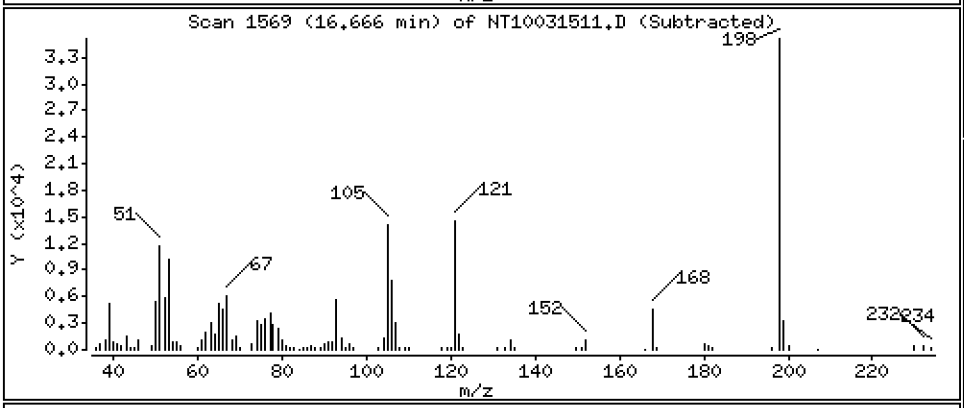
Column diameter: 0.25

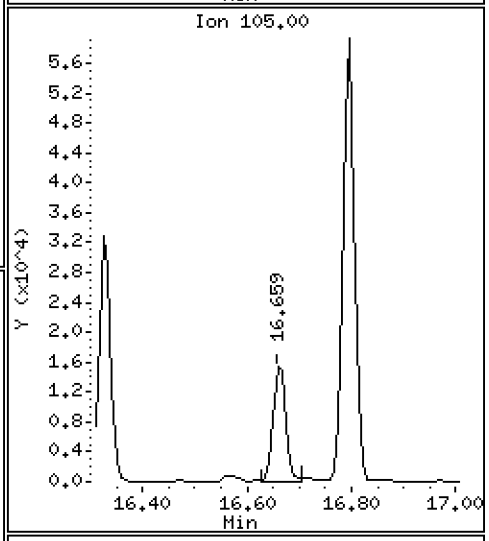
53 4,6-Dinitro-2-methylphenol

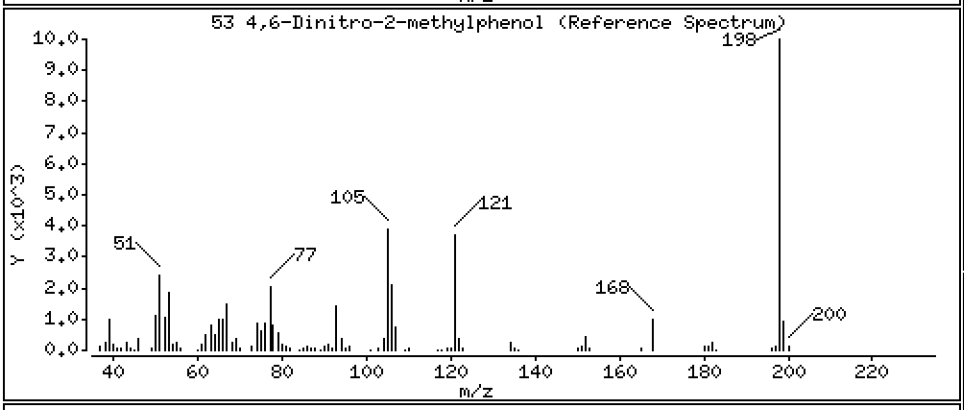
Concentration: 3.515 ug/mL

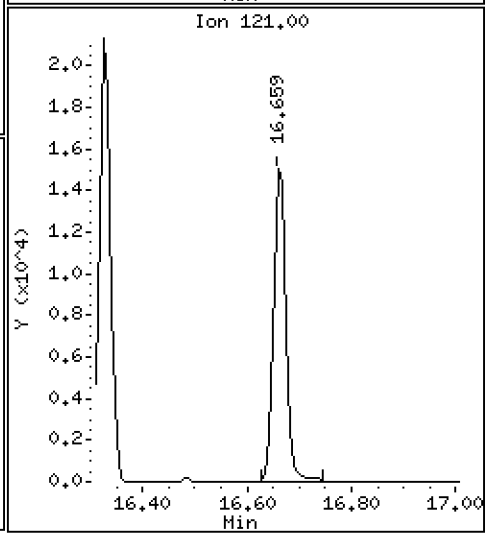


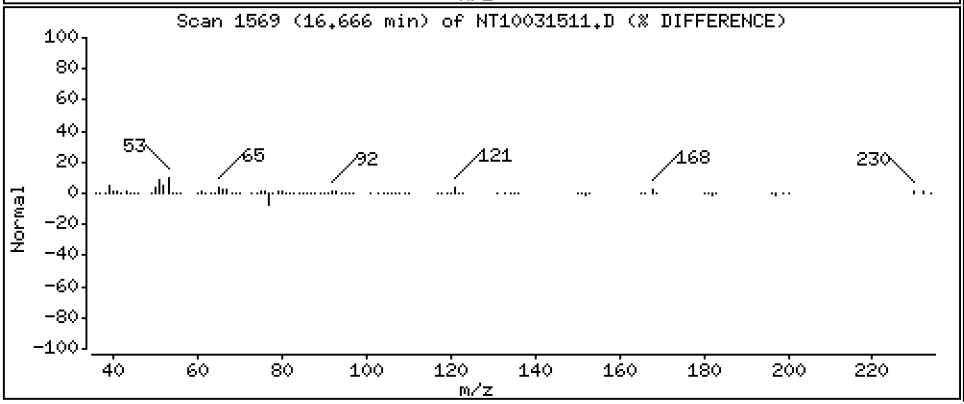












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

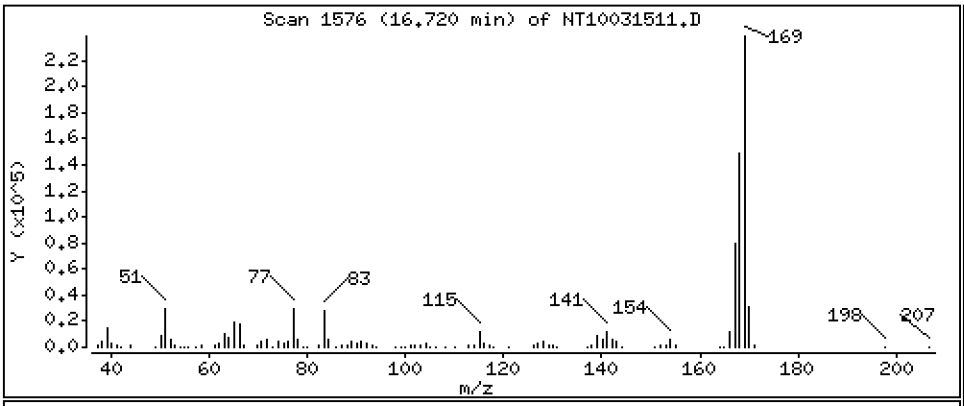
Operator: VTS

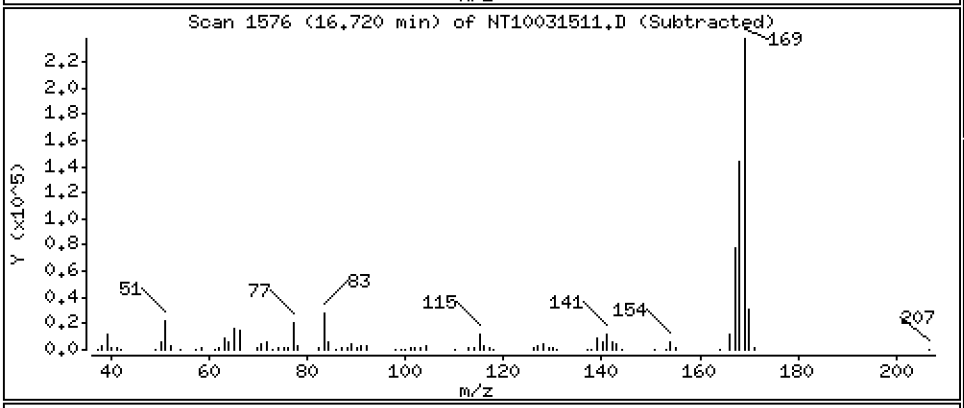
Column phase: ZB-5msi

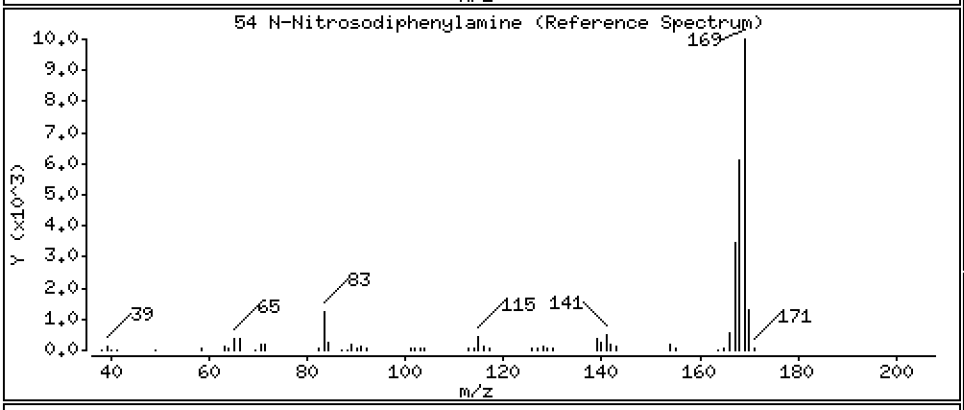
Column diameter: 0.25

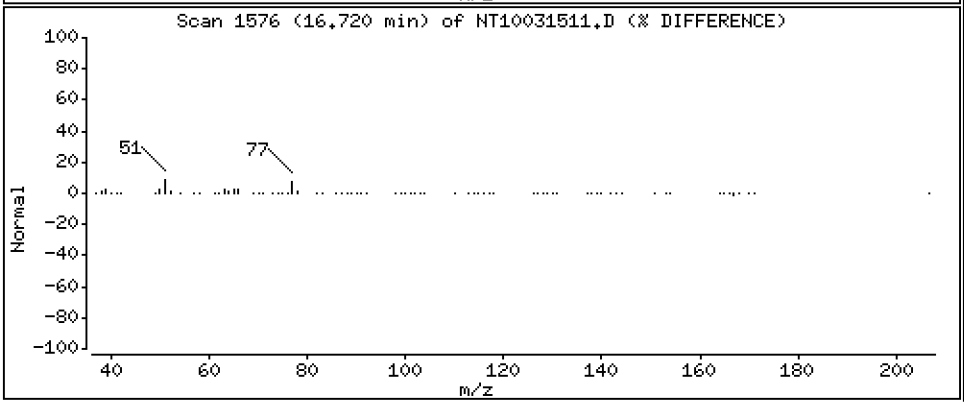
54 N-Nitrosodiphenylamine

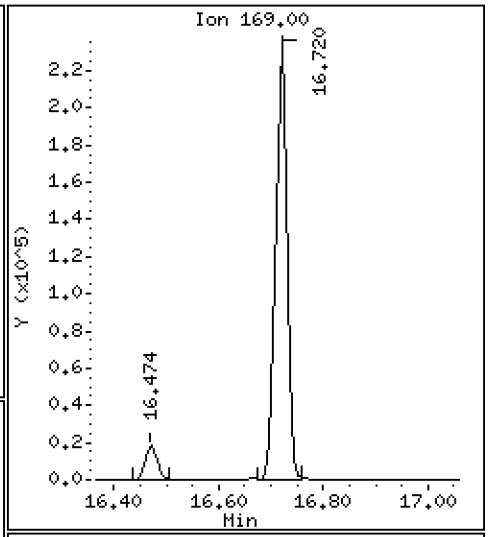
Concentration: 4.802 ug/mL

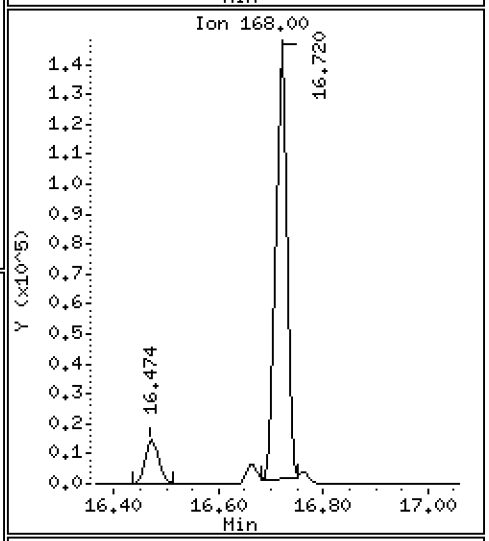


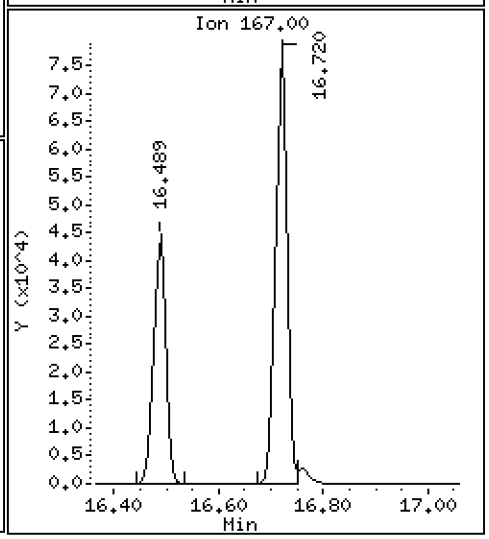












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

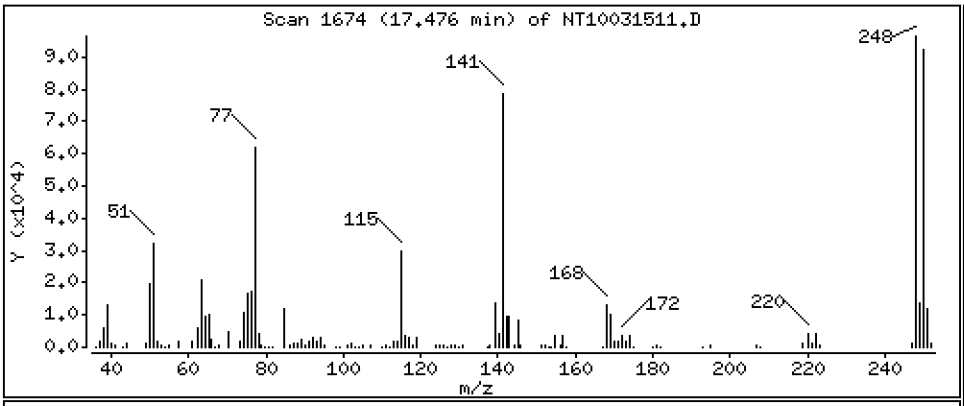
Operator: VTS

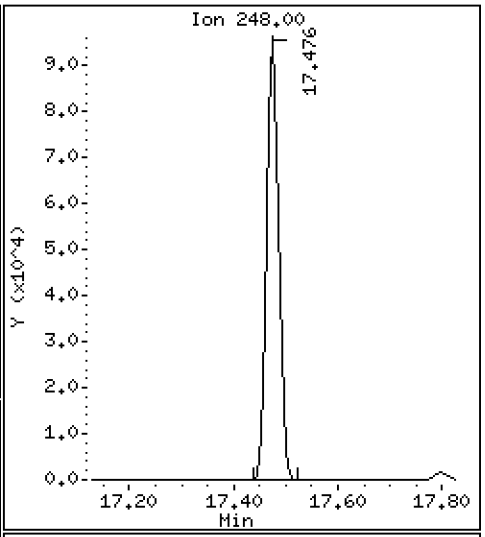
Column phase: ZB-5msi

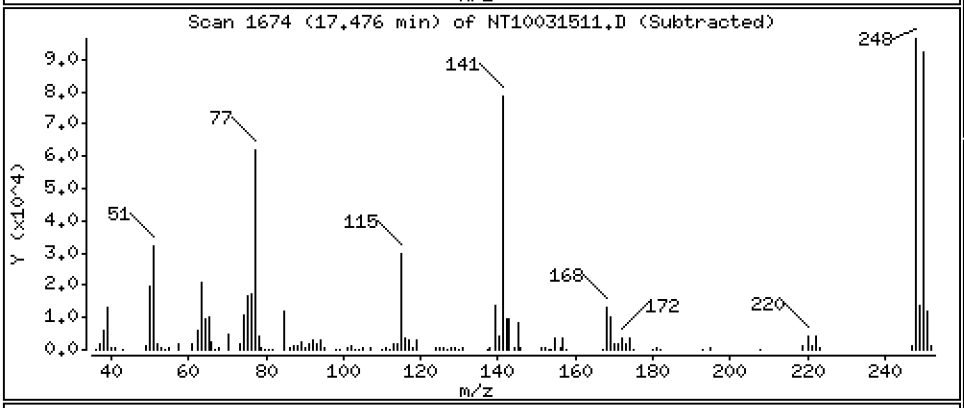
Column diameter: 0.25

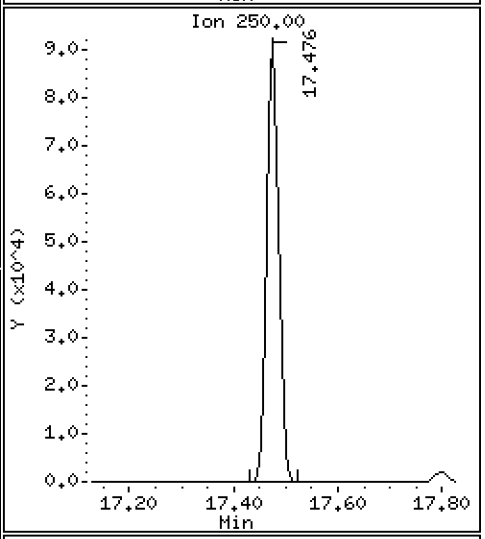
56 4-Bromophenyl-phenylether

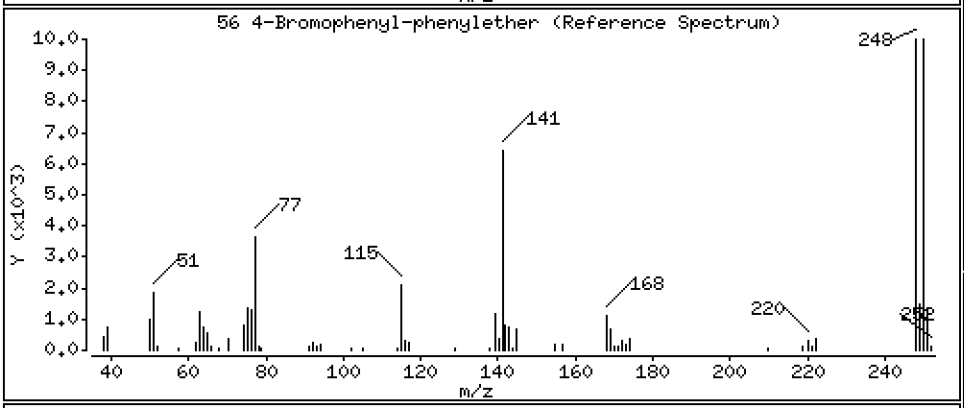
Concentration: 5.060 ug/mL

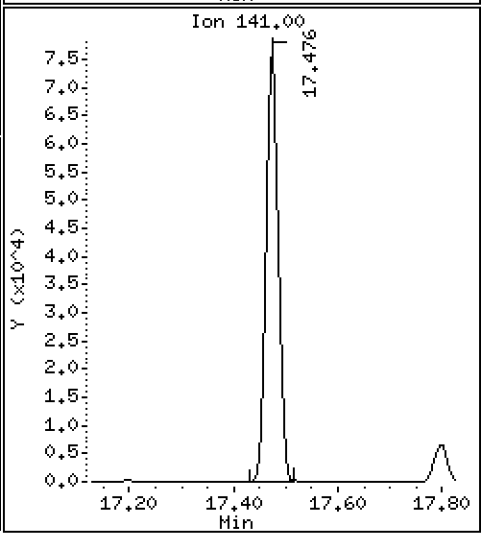


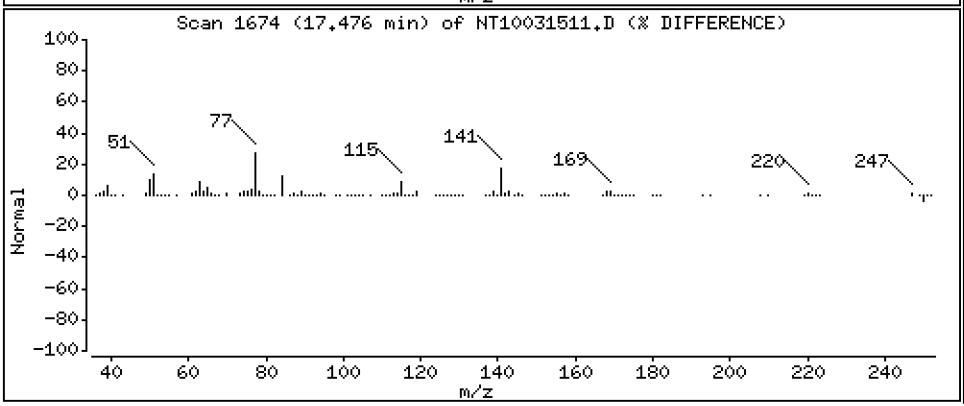












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

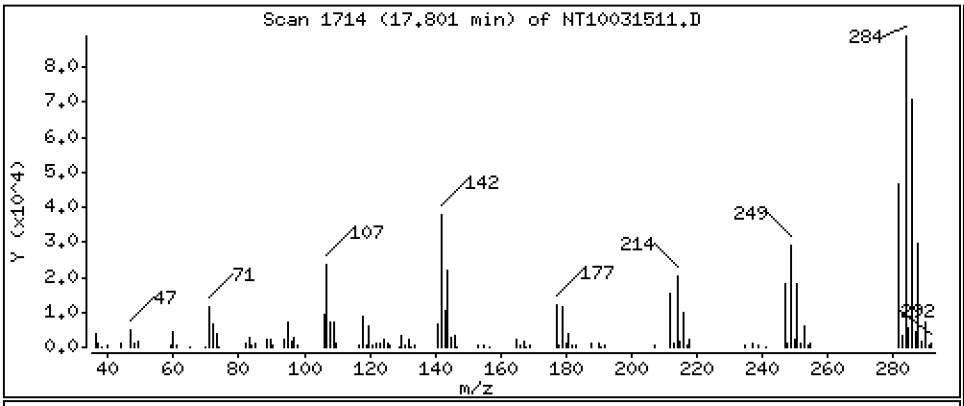
Operator: VTS

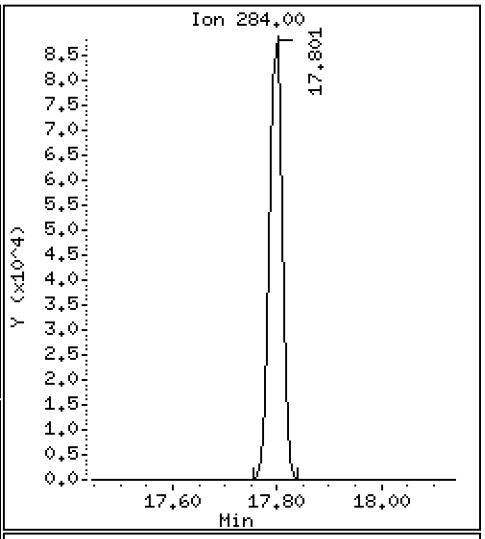
Column phase: ZB-5msi

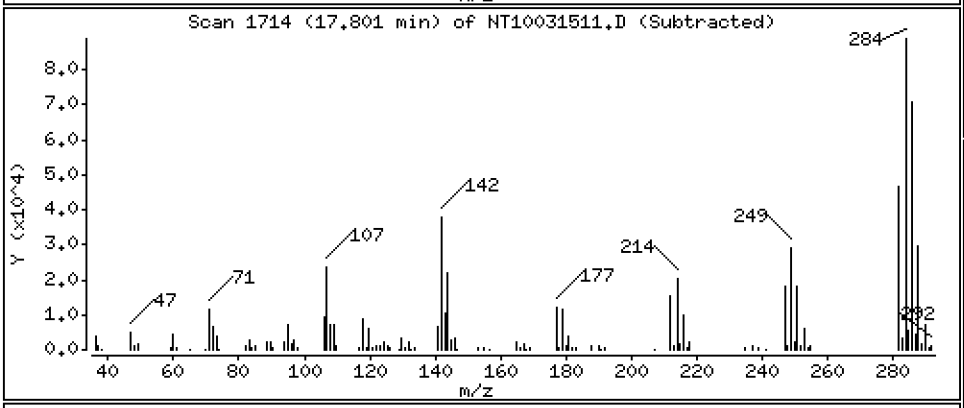
Column diameter: 0.25

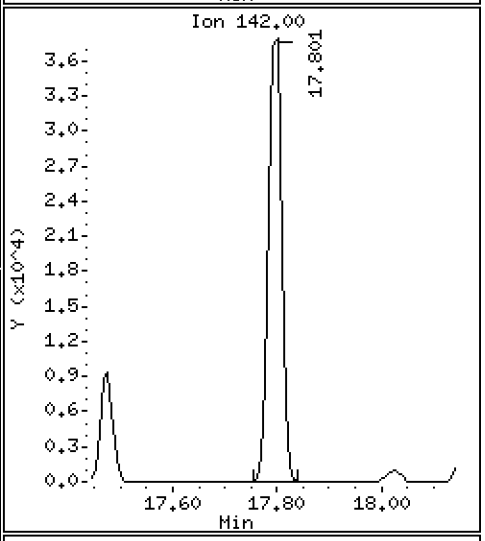
57 Hexachlorobenzene

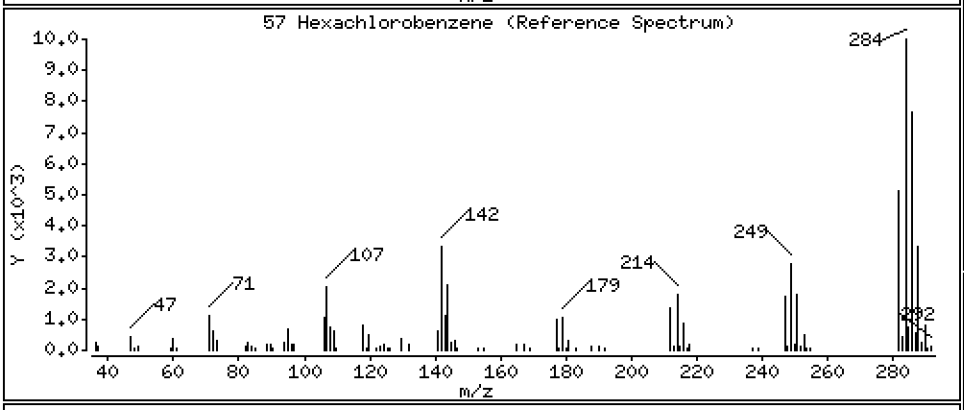
Concentration: 4.596 ug/mL

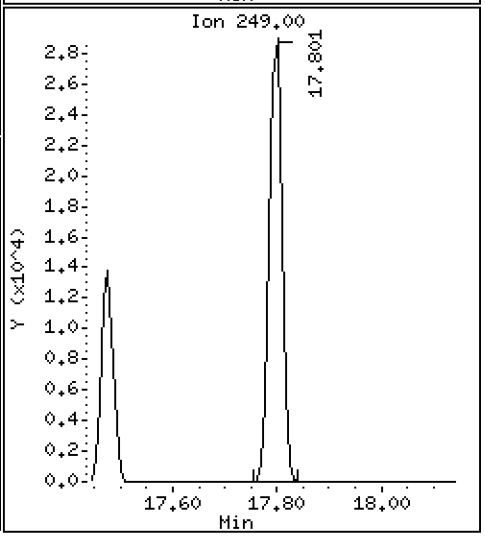


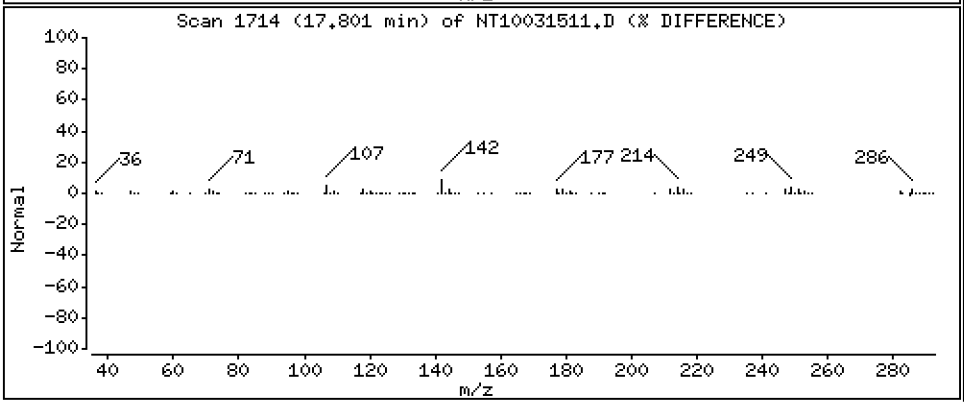












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

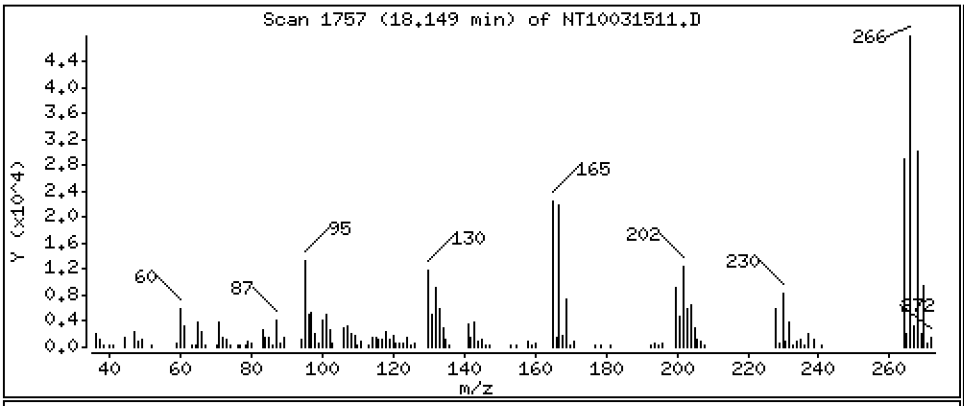
Operator: VTS

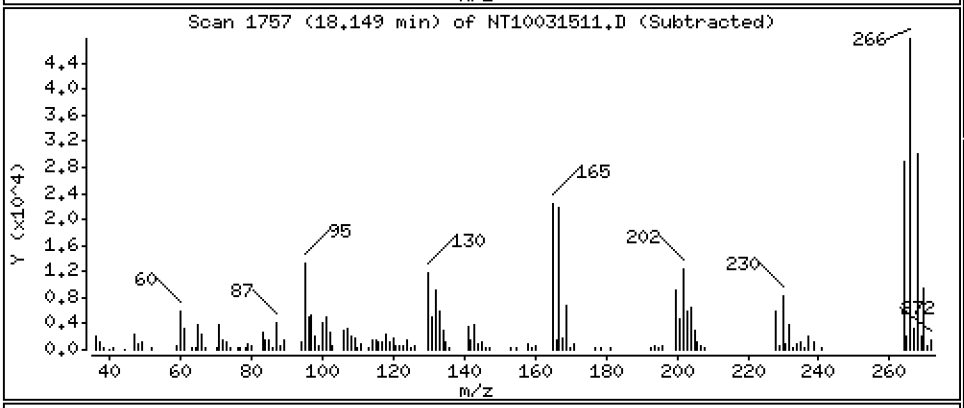
Column phase: ZB-5msi

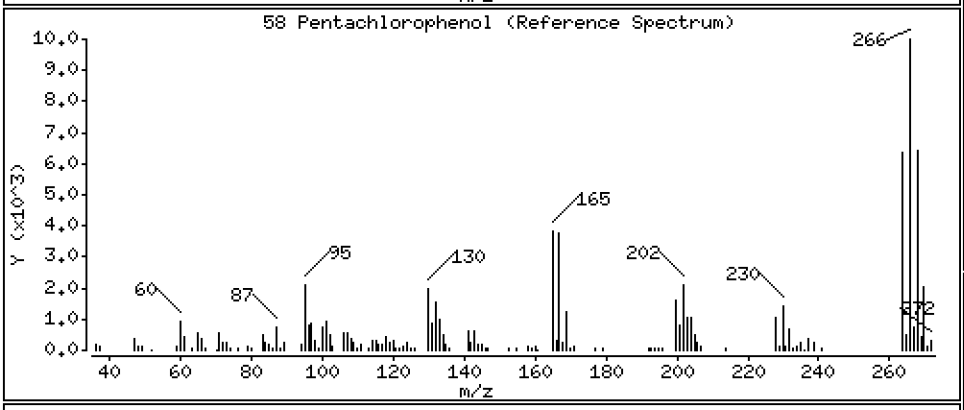
Column diameter: 0.25

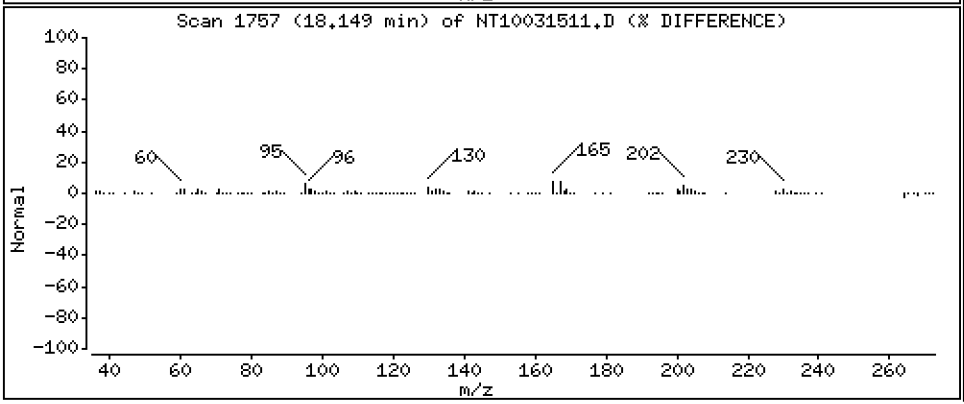
58 Pentachlorophenol

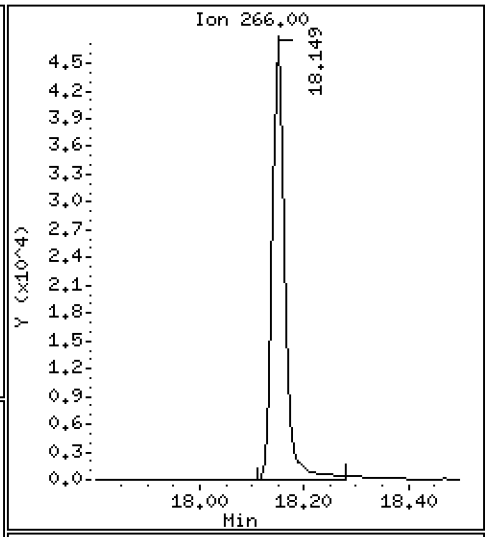
Concentration: 4.057 ug/mL

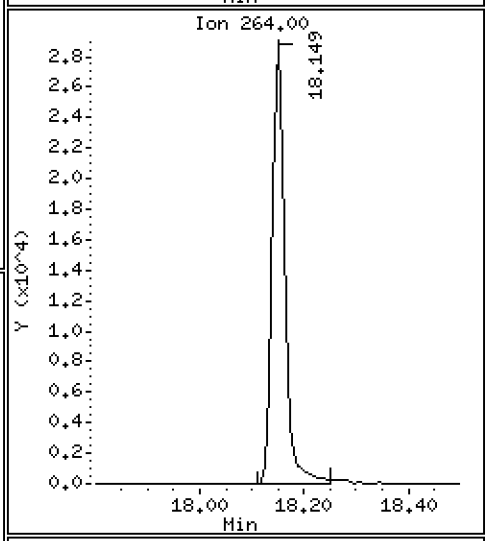


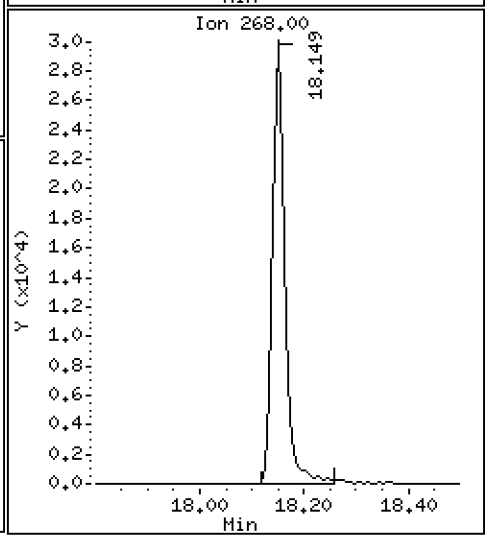












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

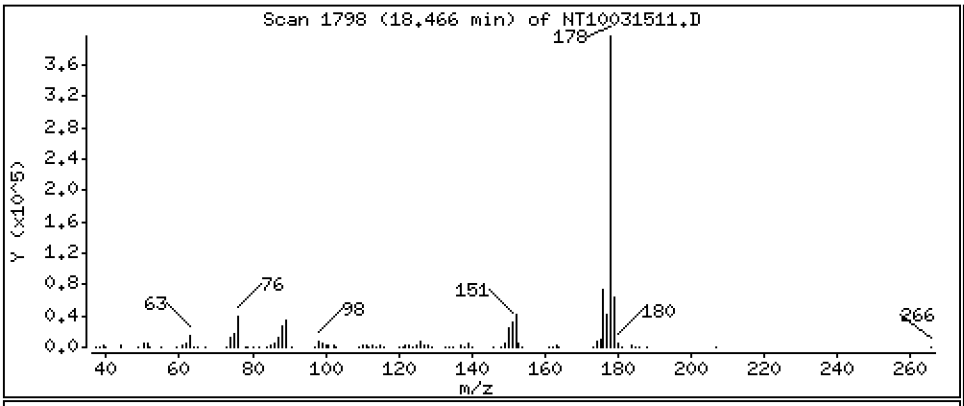
Operator: VTS

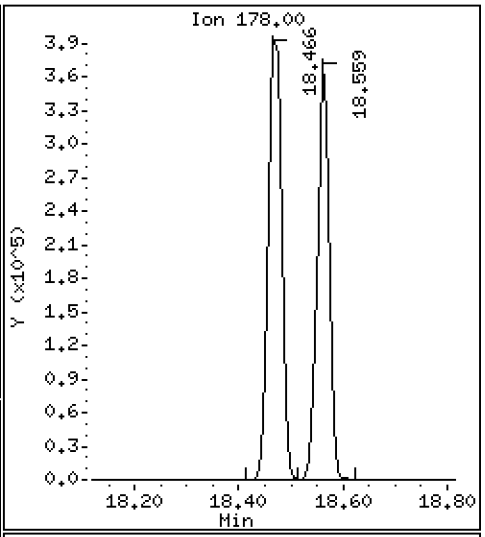
Column phase: ZB-5msi

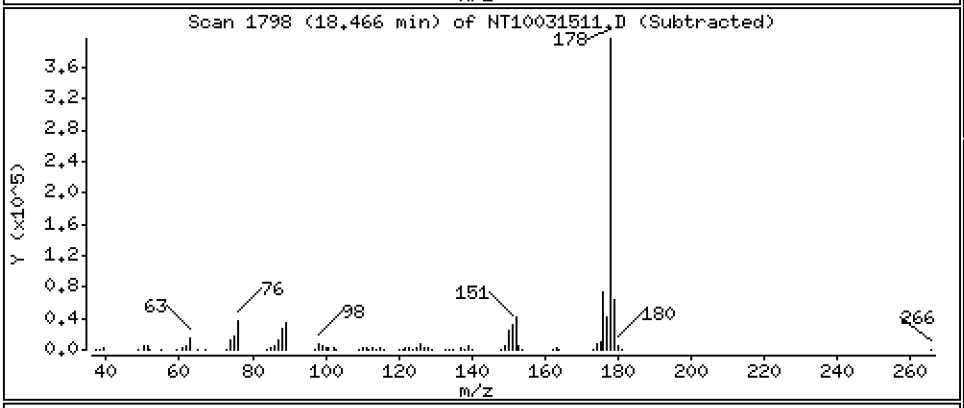
Column diameter: 0.25

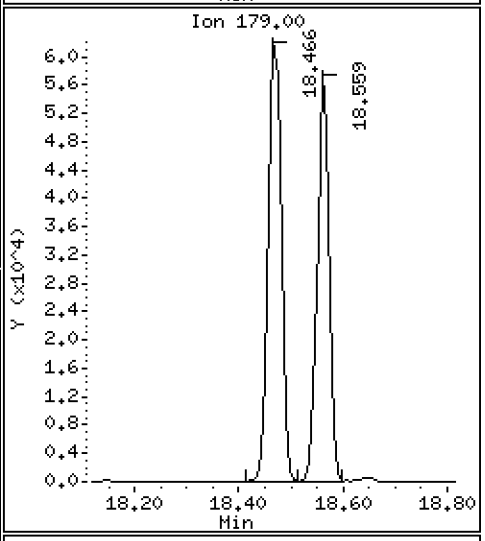
60 Phenanthrene

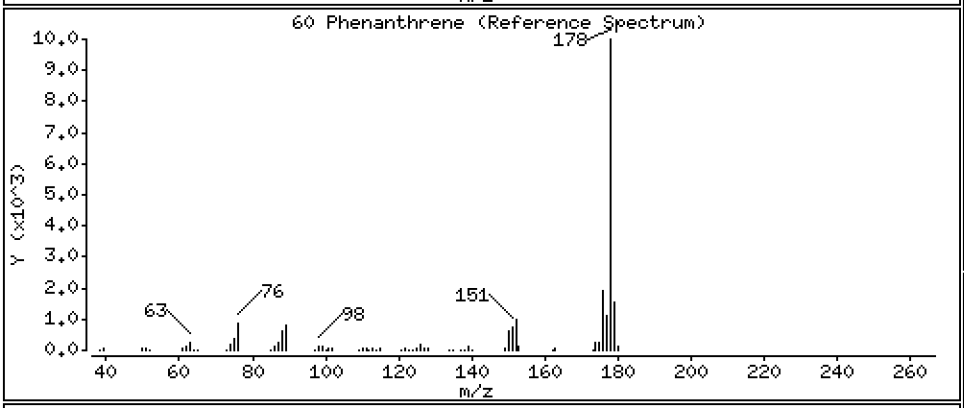
Concentration: 4.602 ug/mL

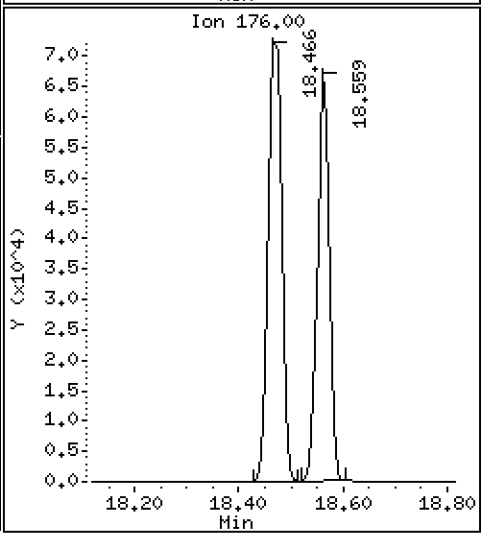


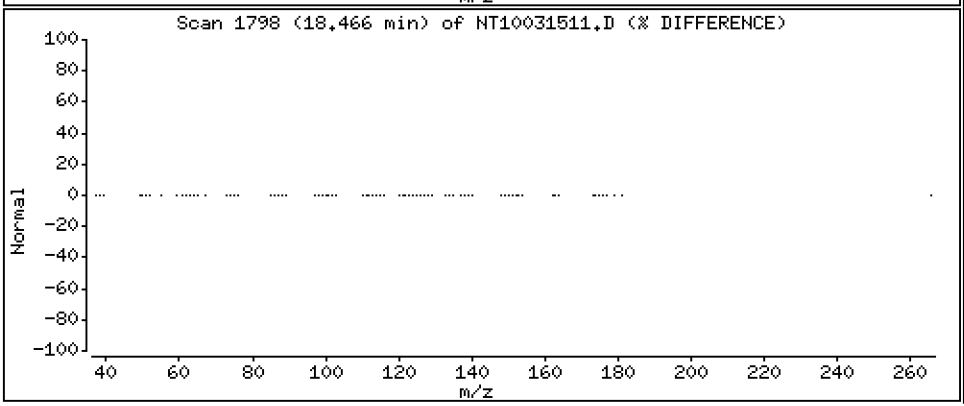












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

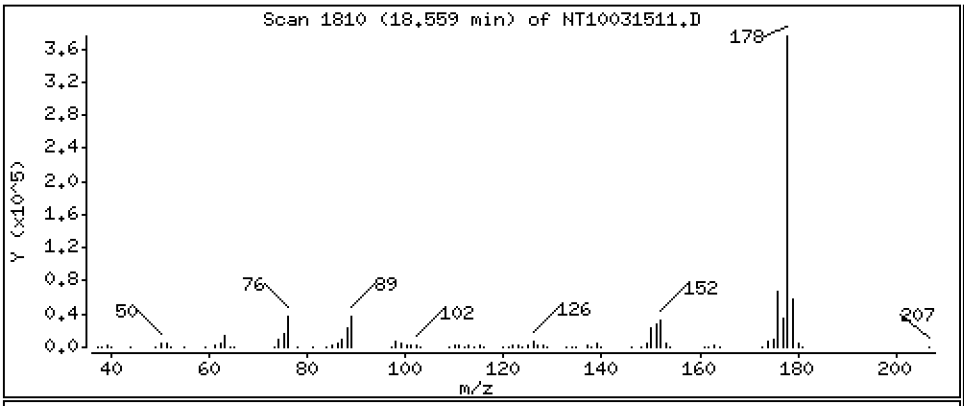
Operator: VTS

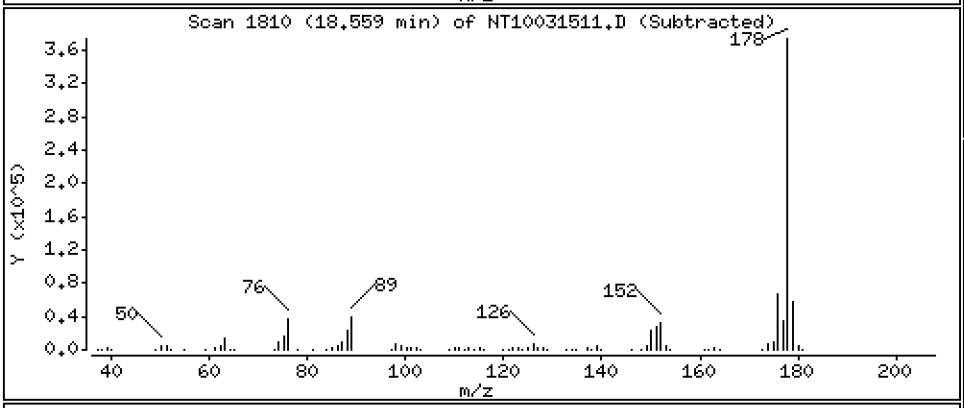
Column phase: ZB-5msi

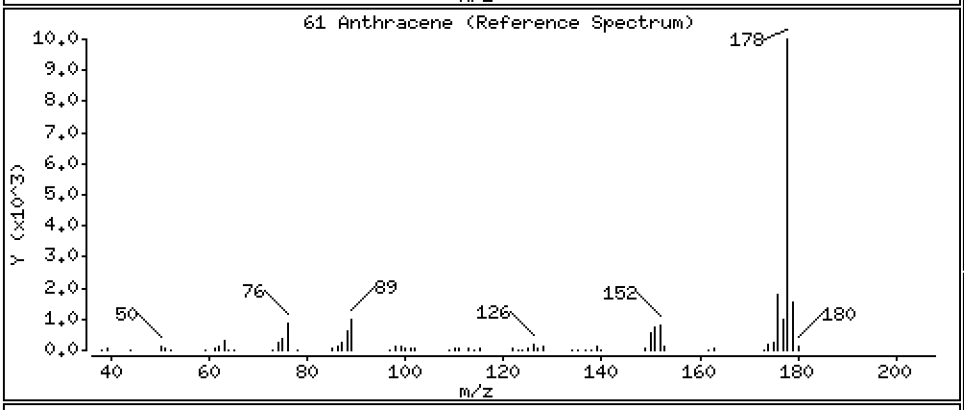
Column diameter: 0.25

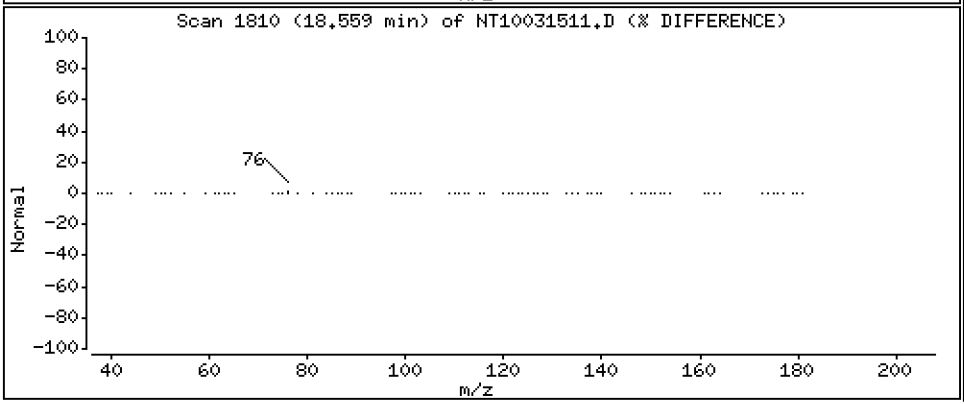
61 Anthracene

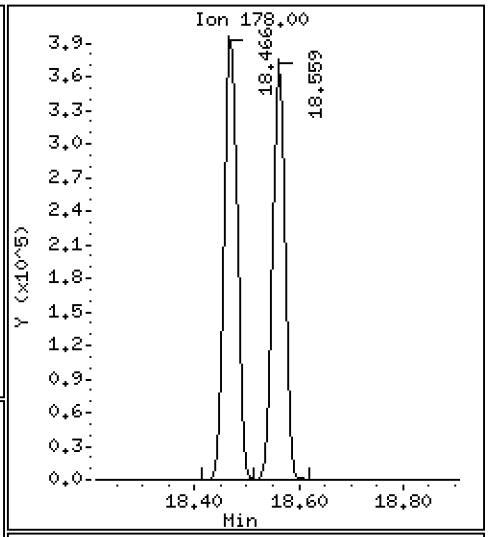
Concentration: 4.167 ug/mL

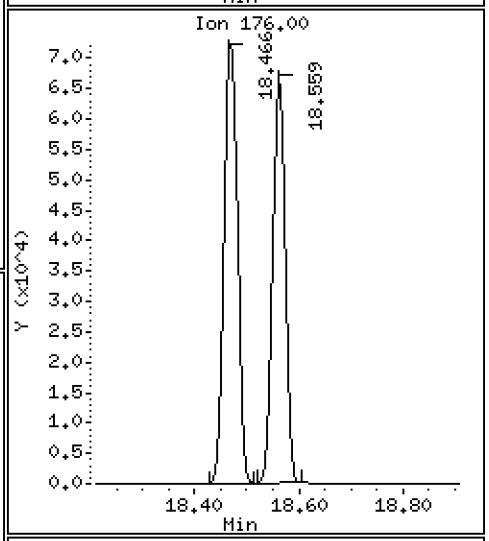


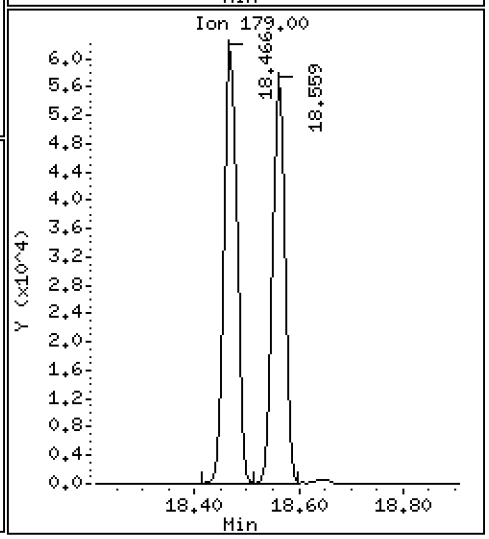












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

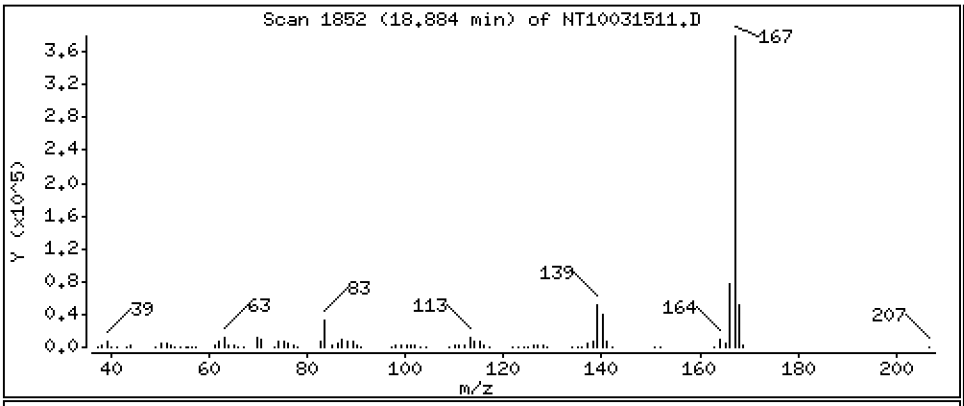
Operator: VTS

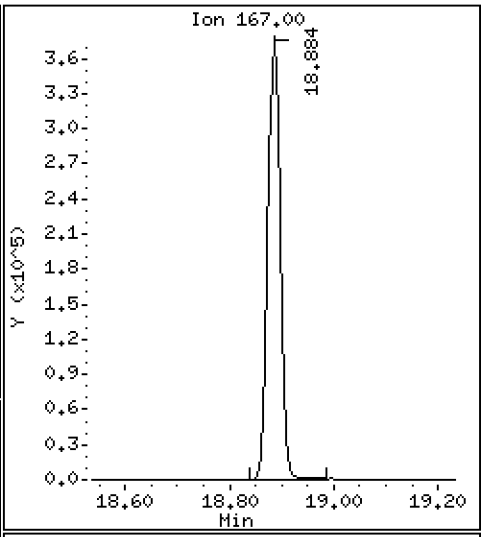
Column phase: ZB-5msi

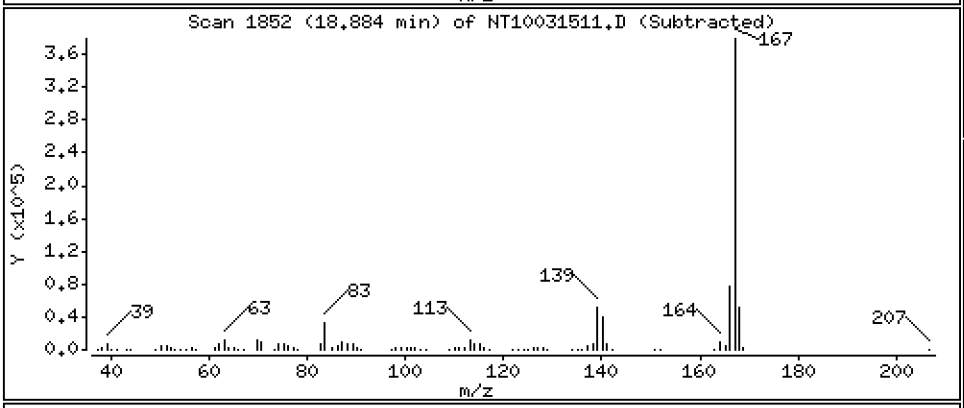
Column diameter: 0.25

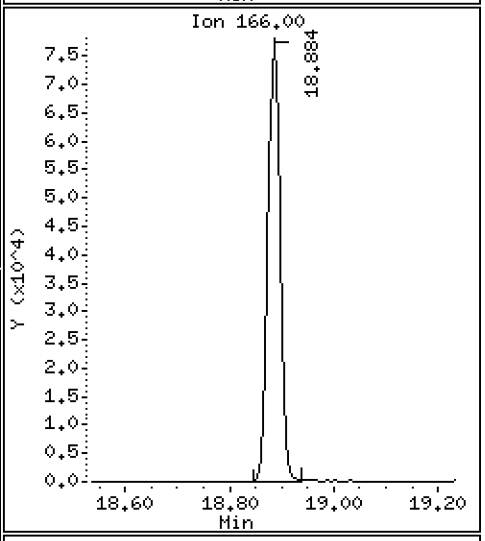
62 Carbazole

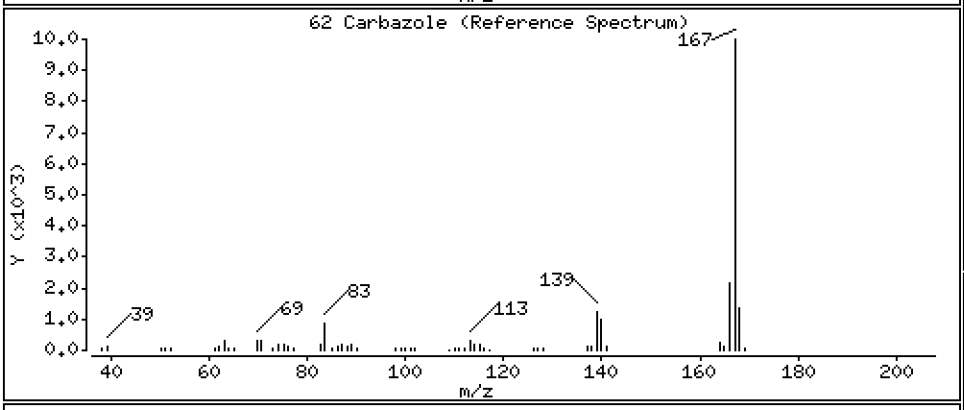
Concentration: 4.730 ug/mL

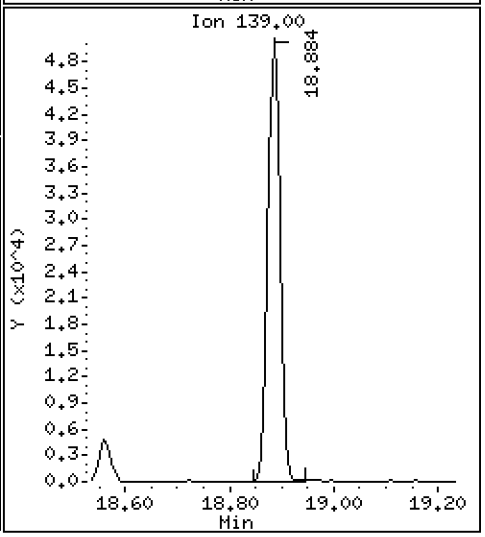


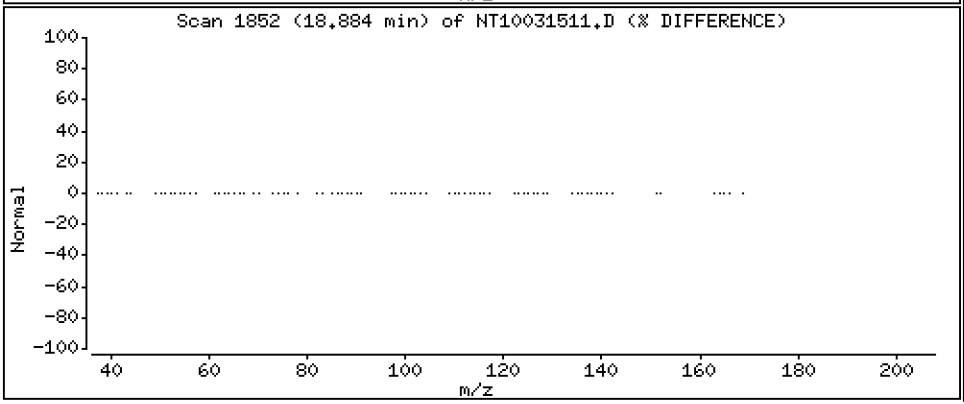












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

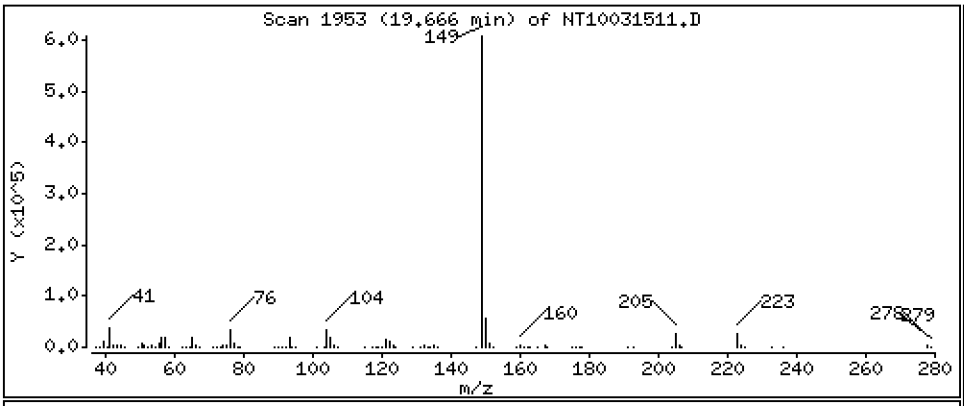
Operator: VTS

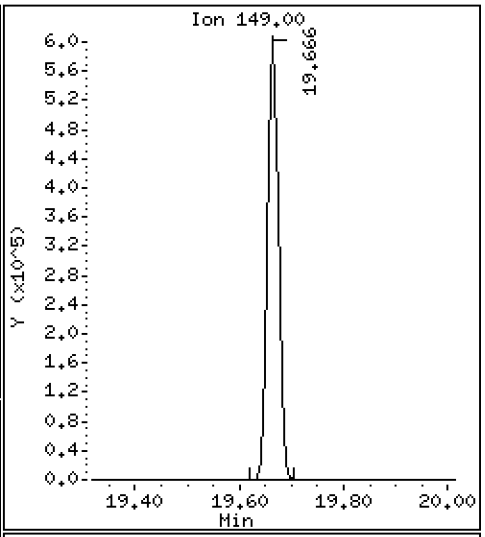
Column phase: ZB-5msi

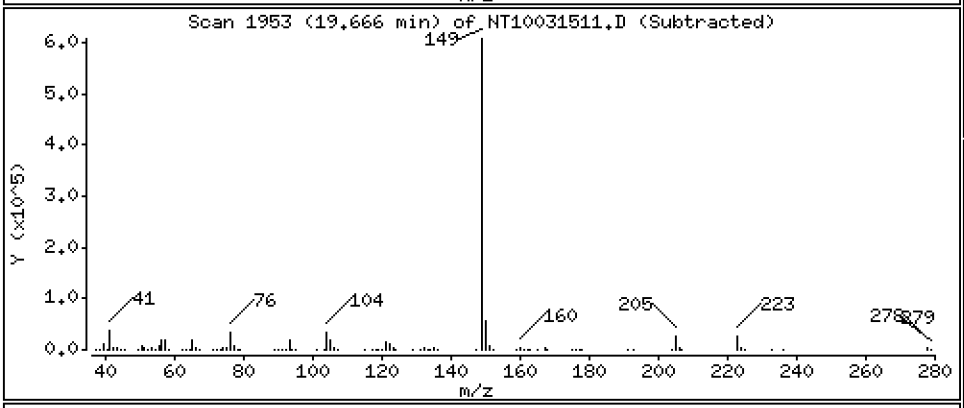
Column diameter: 0.25

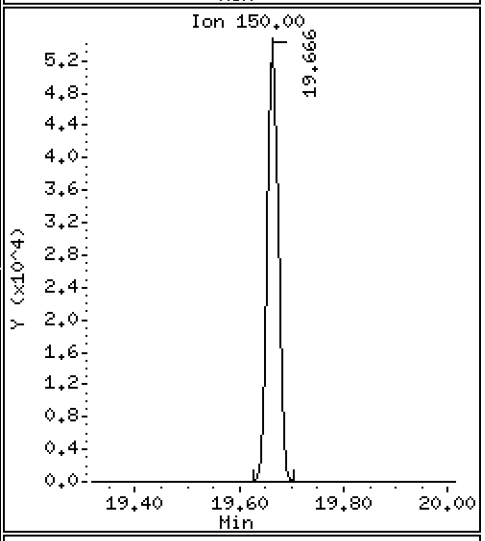
63 Di-n-butylphthalate

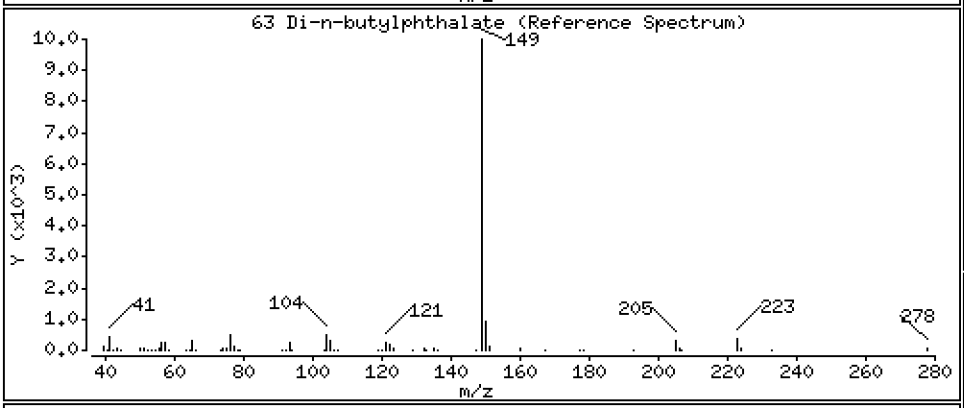
Concentration: 4.967 ug/mL

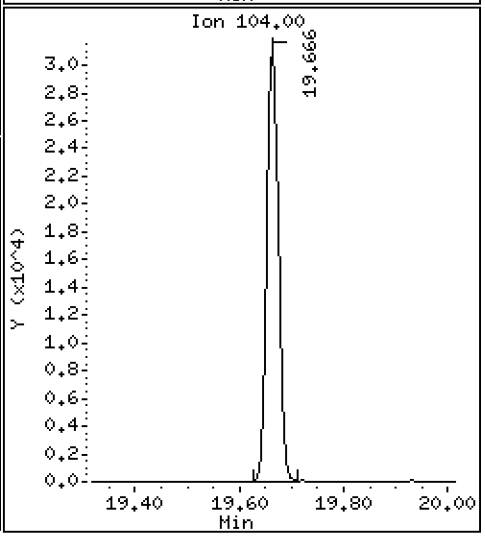


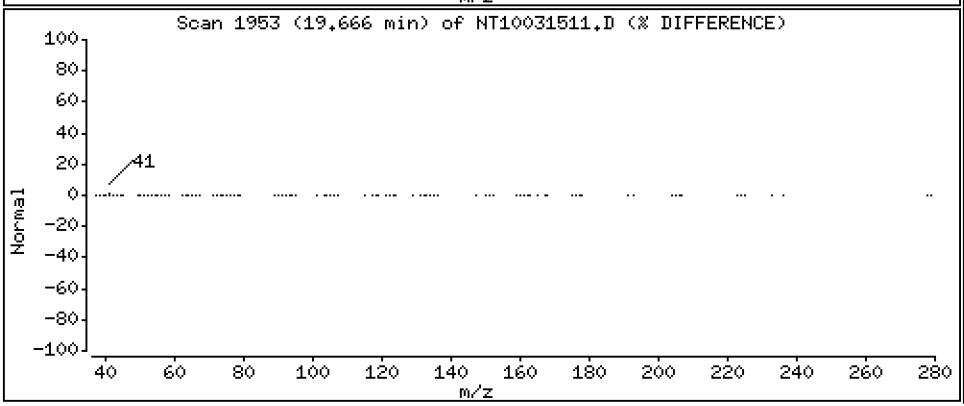












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

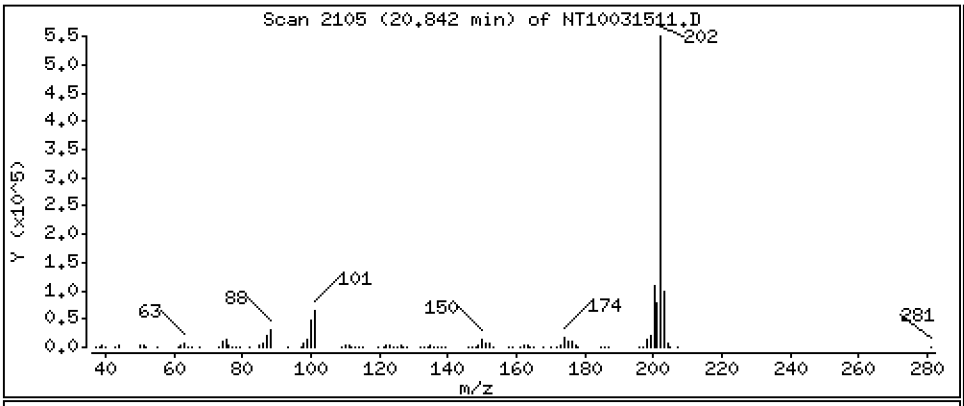
Operator: VTS

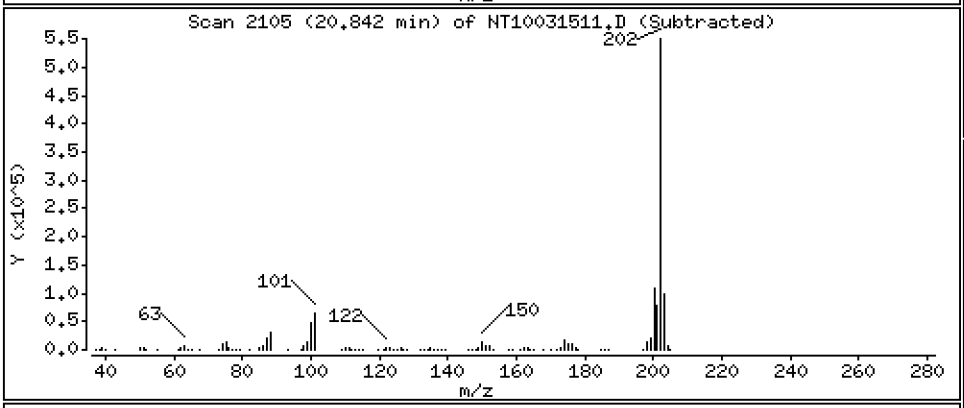
Column phase: ZB-5msi

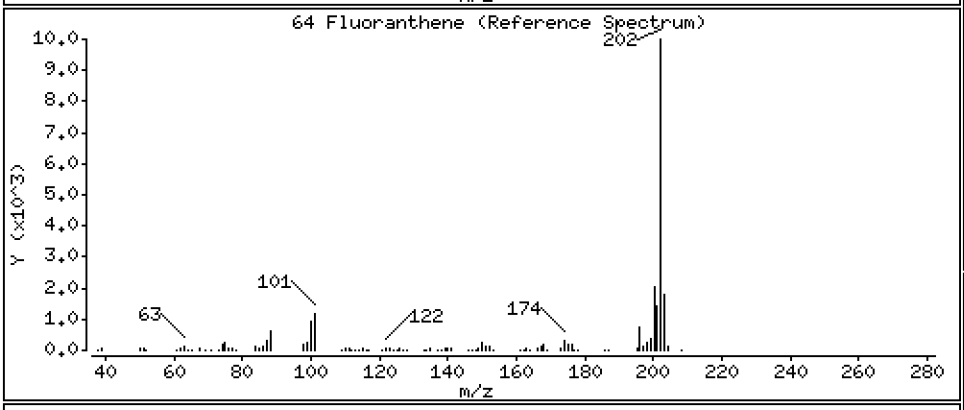
Column diameter: 0.25

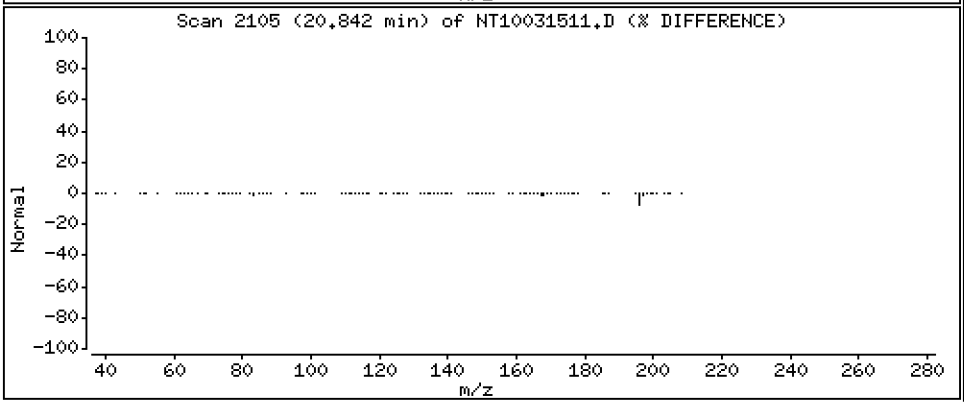
64 Fluoranthene

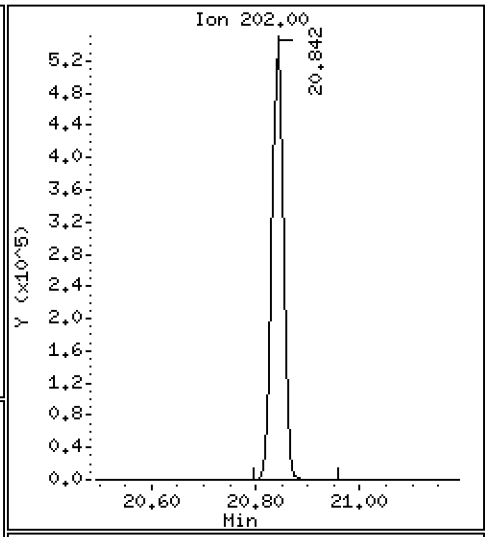
Concentration: 4.472 ug/mL

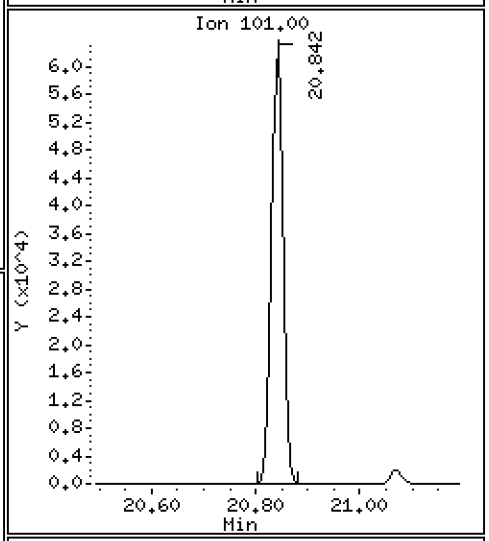


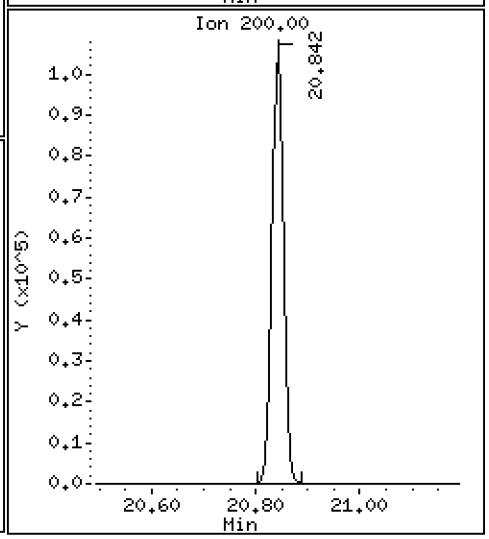












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

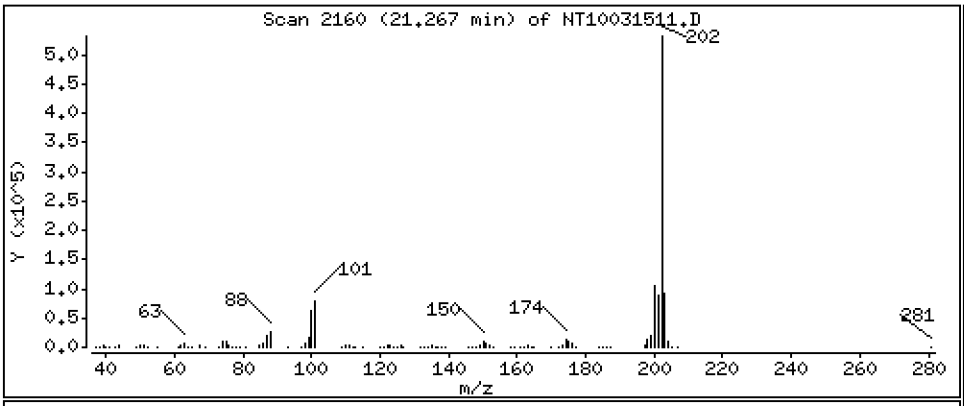
Operator: VTS

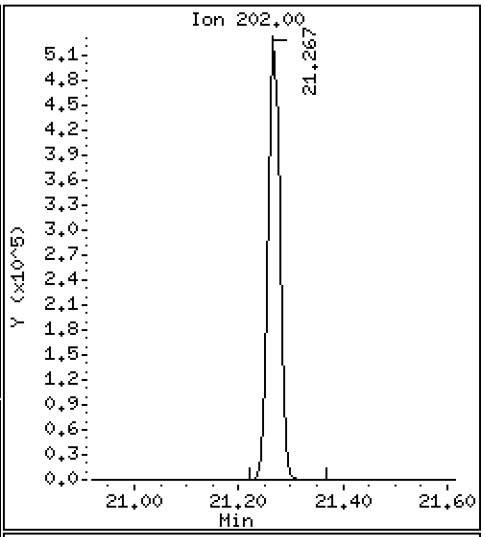
Column phase: ZB-5msi

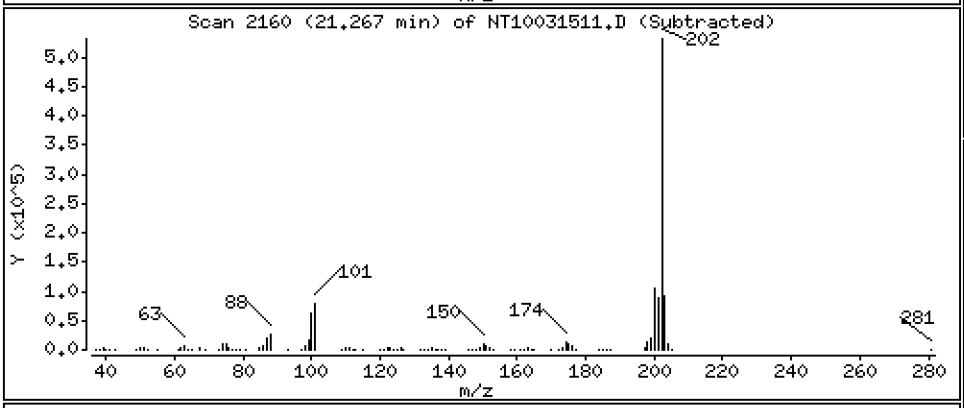
Column diameter: 0.25

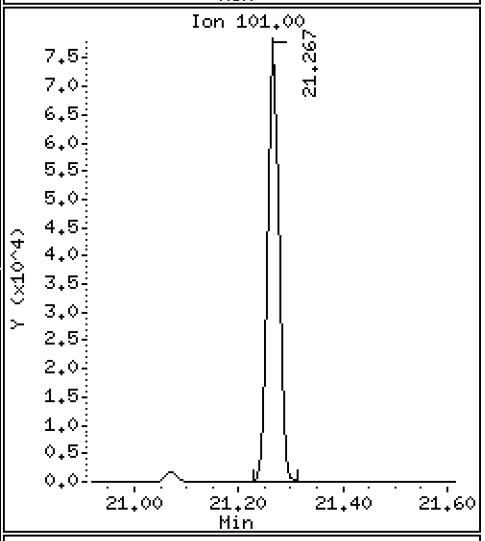
65 Pyrene

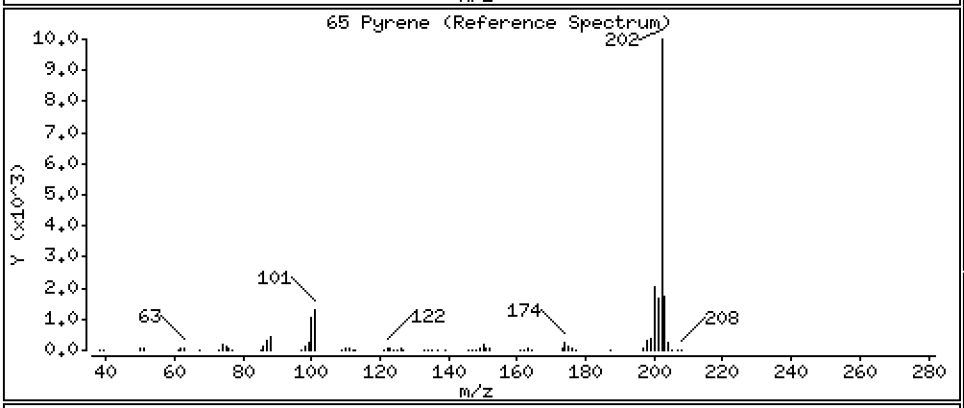
Concentration: 4.339 ug/mL

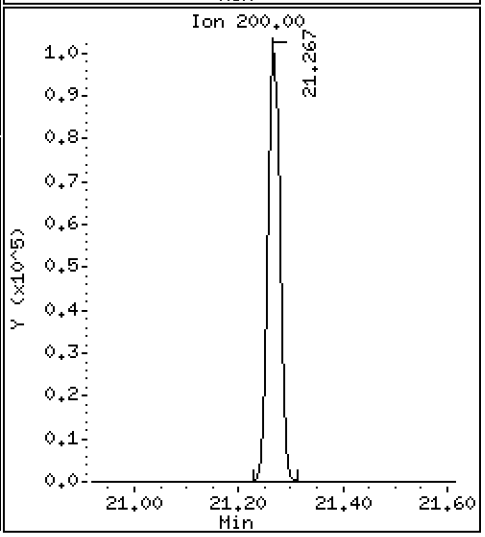


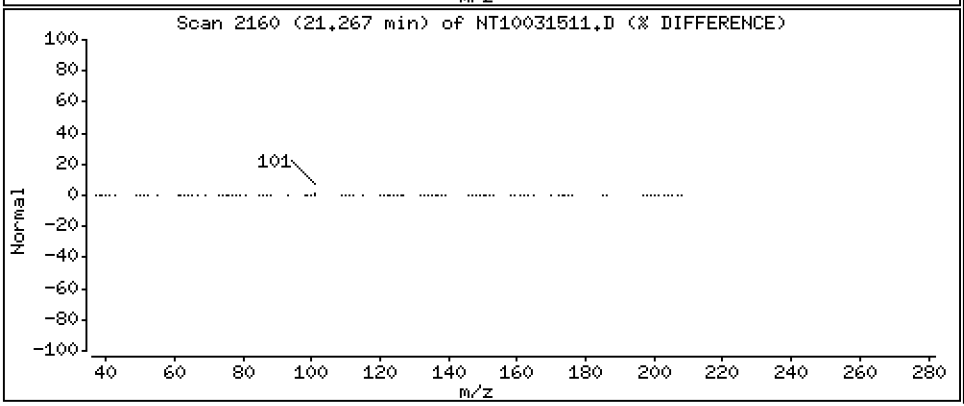












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

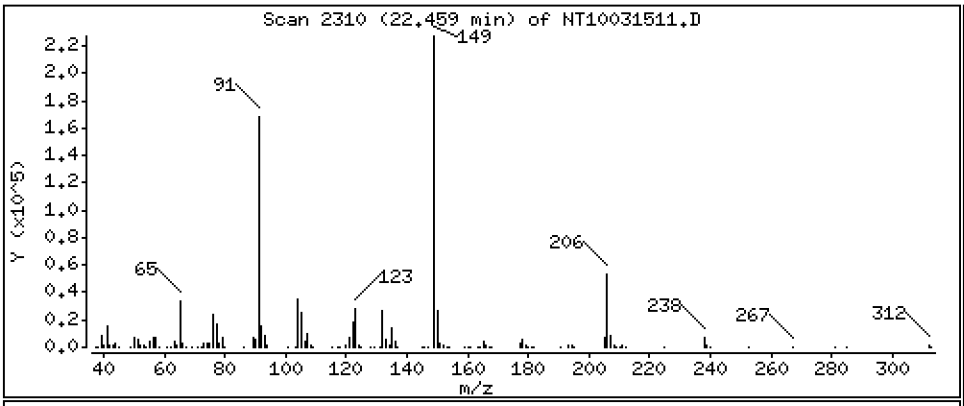
Operator: VTS

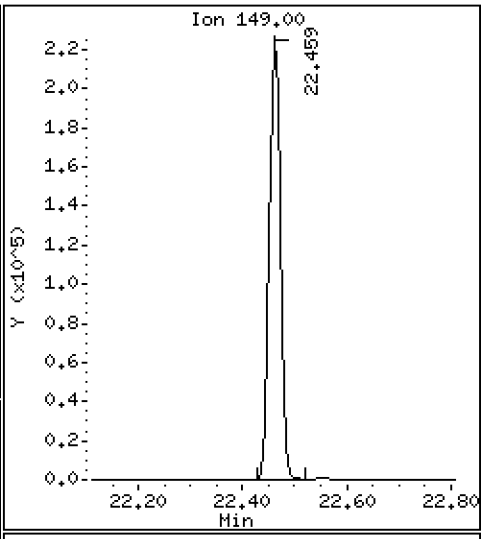
Column phase: ZB-5msi

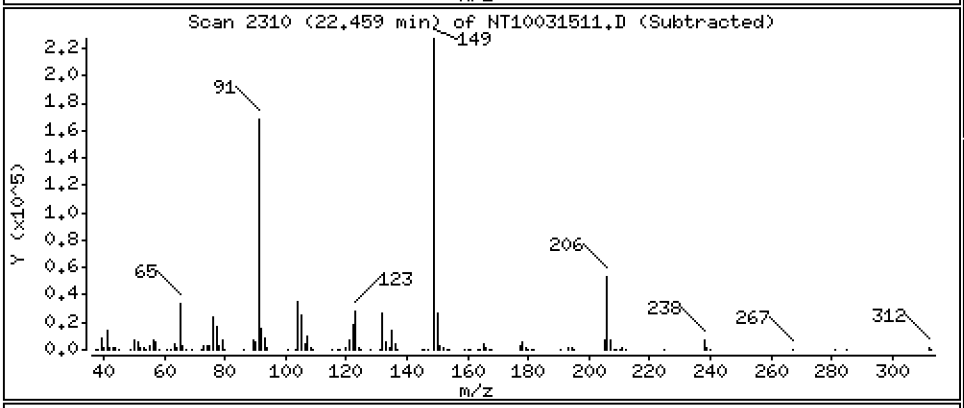
Column diameter: 0.25

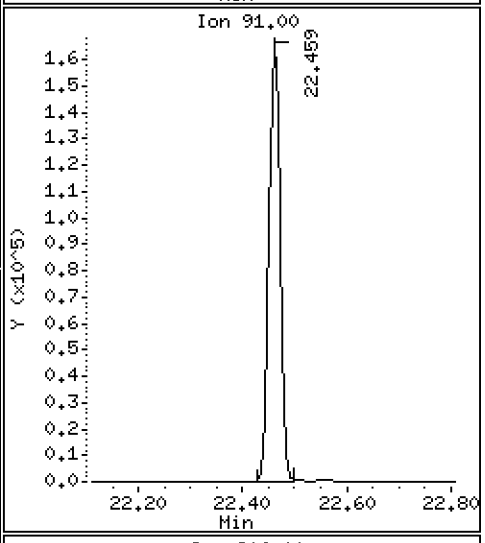
67 Butylbenzylphthalate

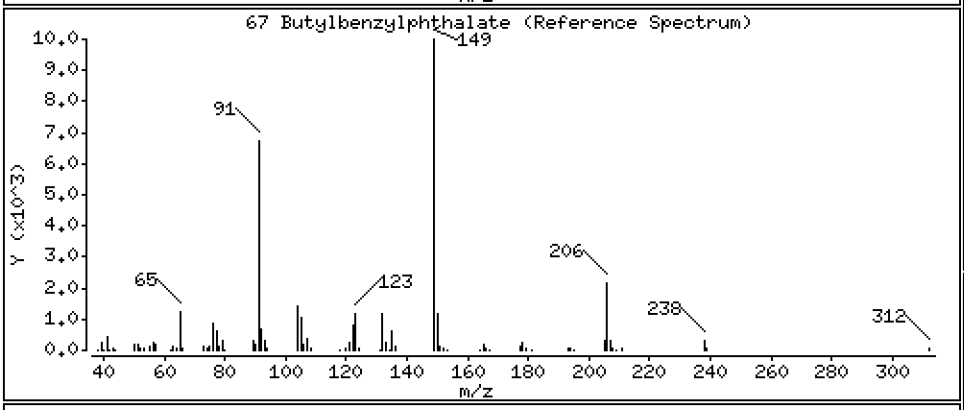
Concentration: 4.834 ug/mL

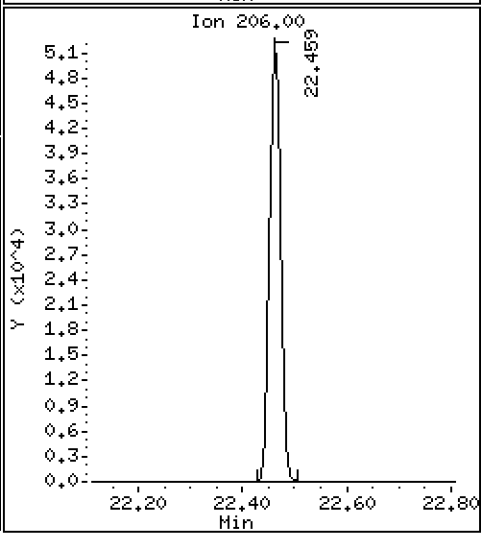


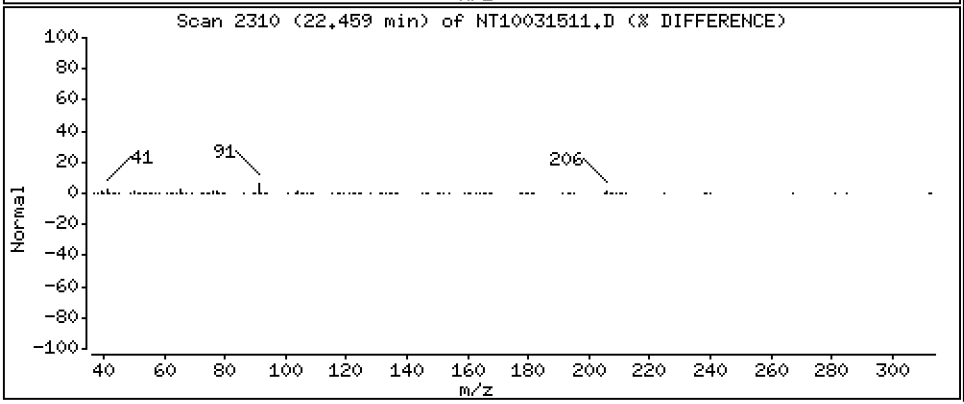












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

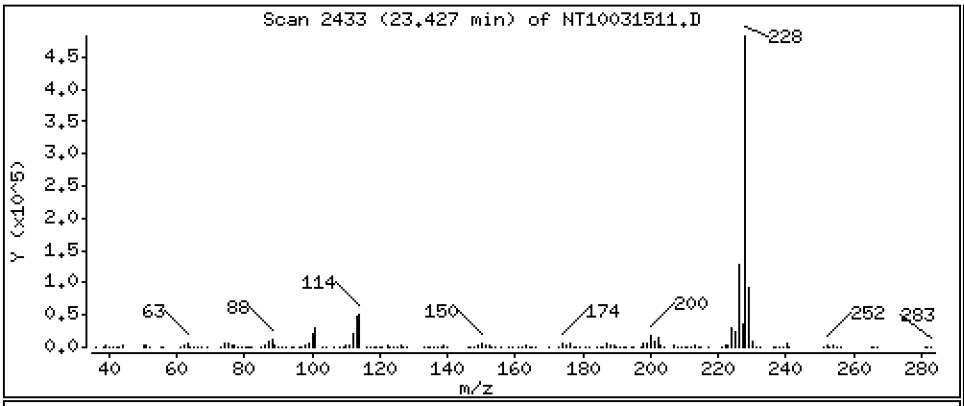
Operator: VTS

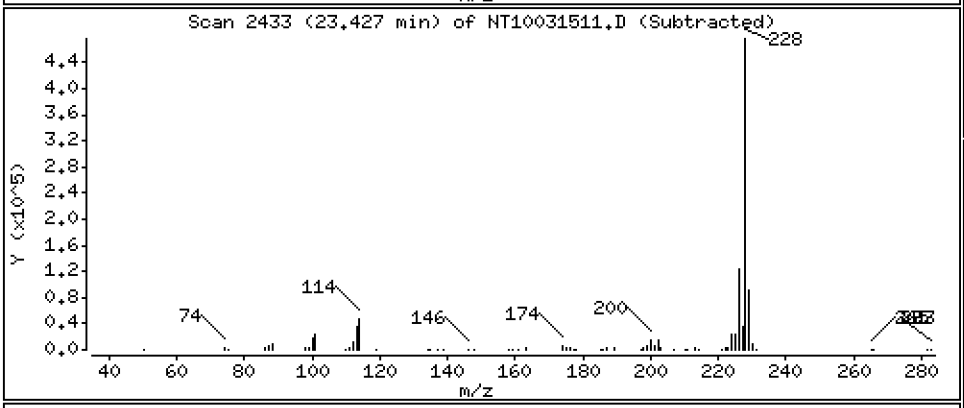
Column phase: ZB-5msi

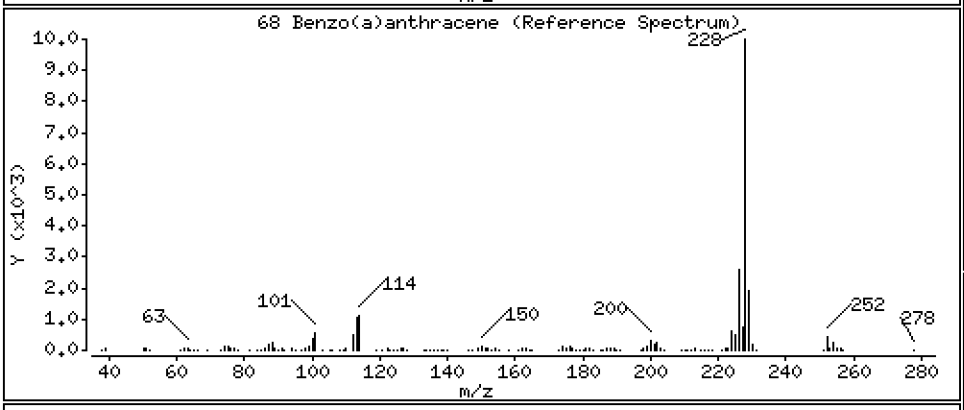
Column diameter: 0.25

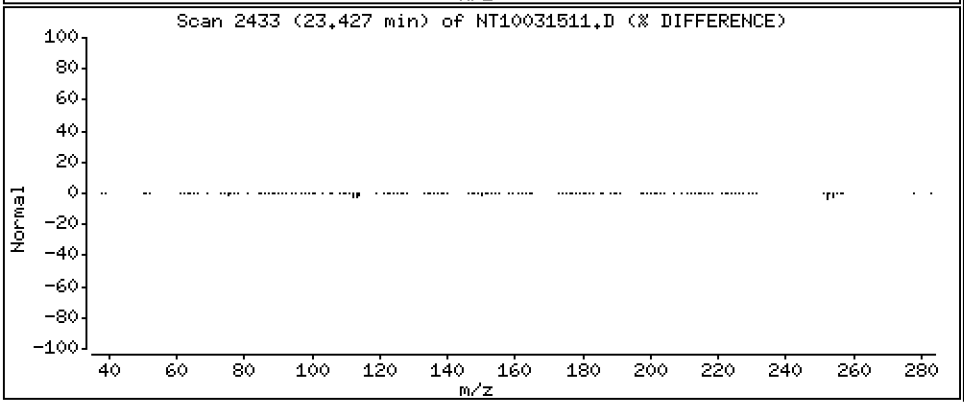
68 Benzo(a)anthracene

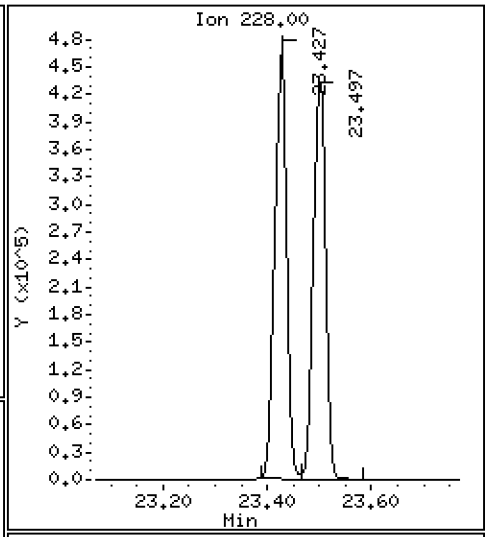
Concentration: 4.647 ug/mL

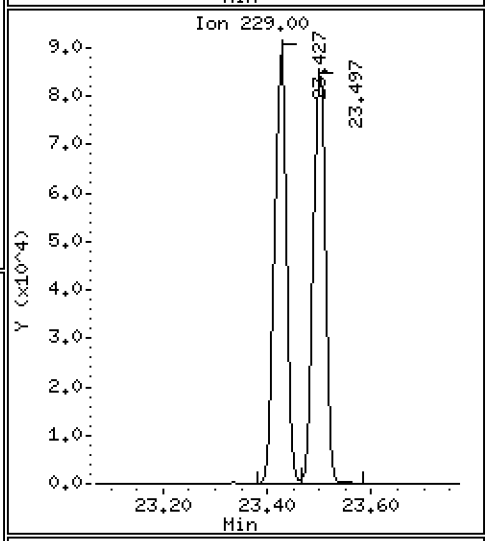


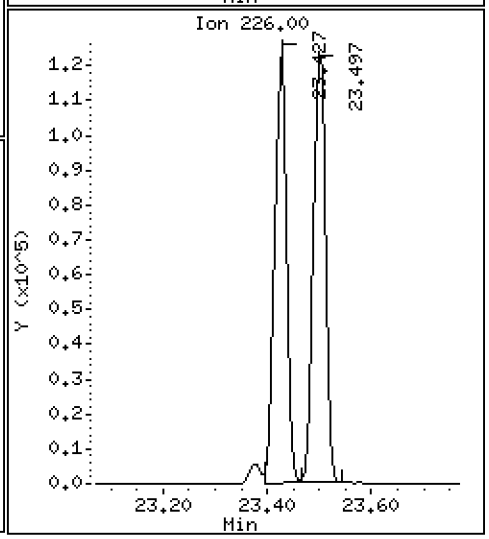












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

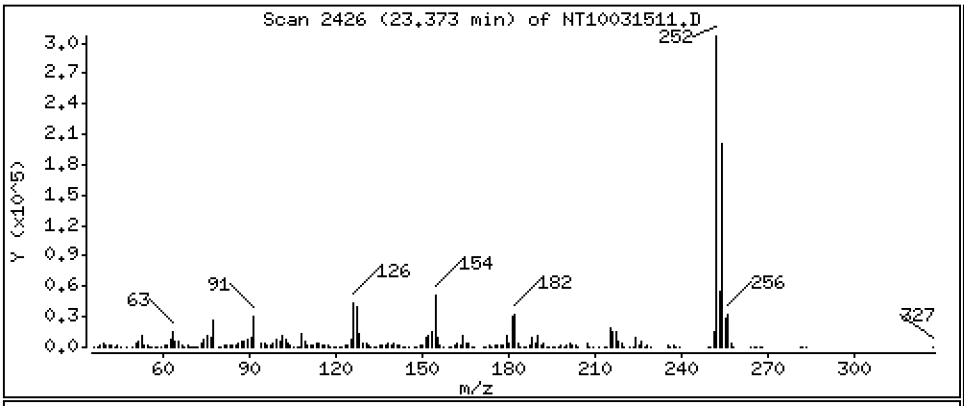
Operator: VTS

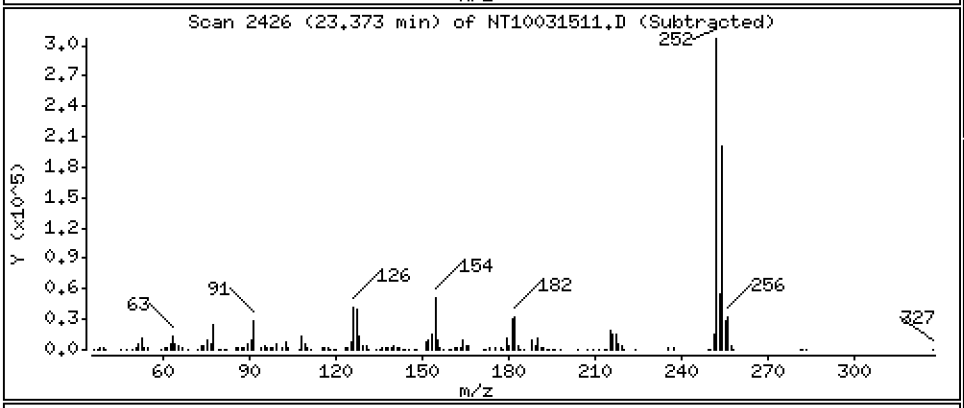
Column phase: ZB-5msi

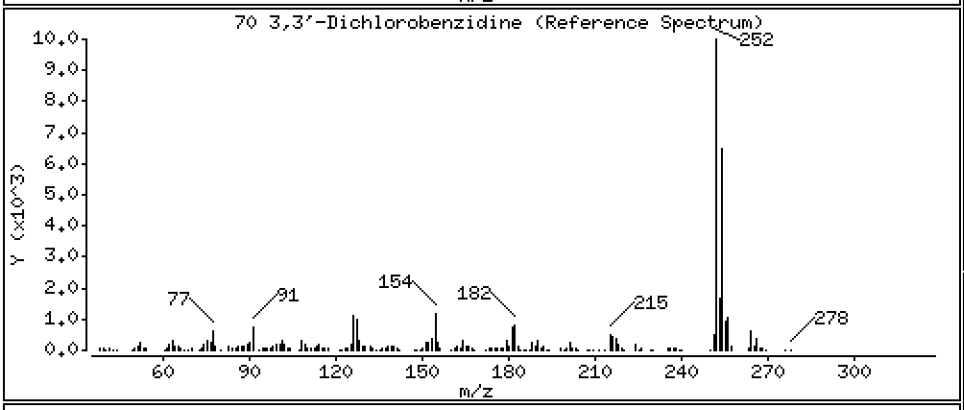
Column diameter: 0.25

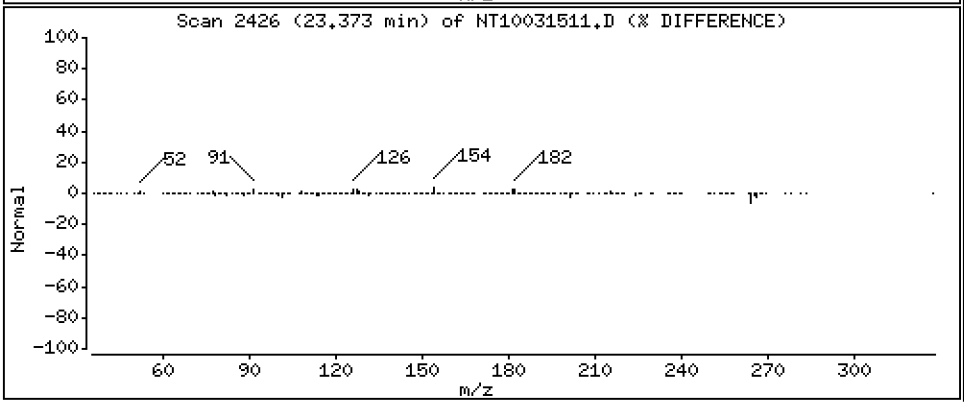
70 3,3'-Dichlorobenzidine

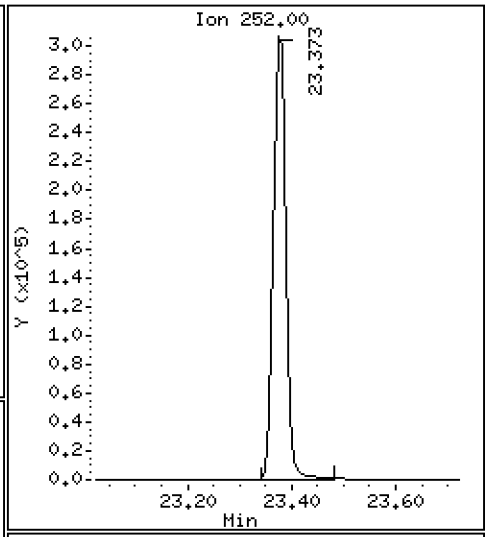
Concentration: 9.817 ug/mL

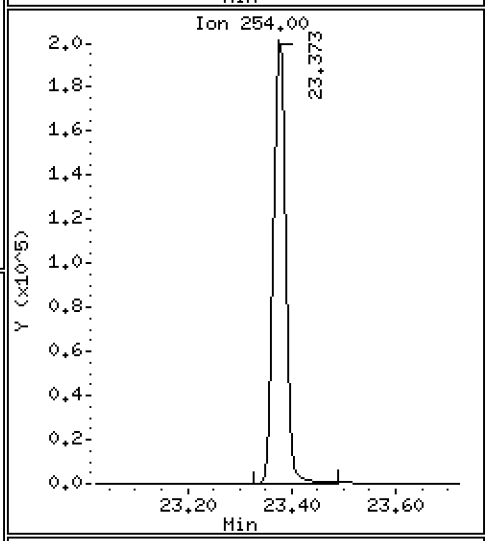


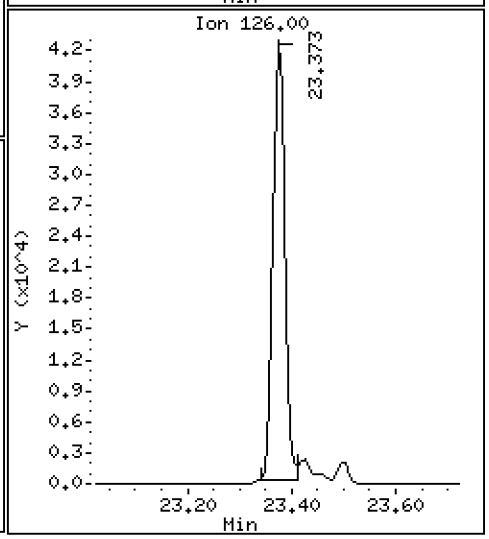












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

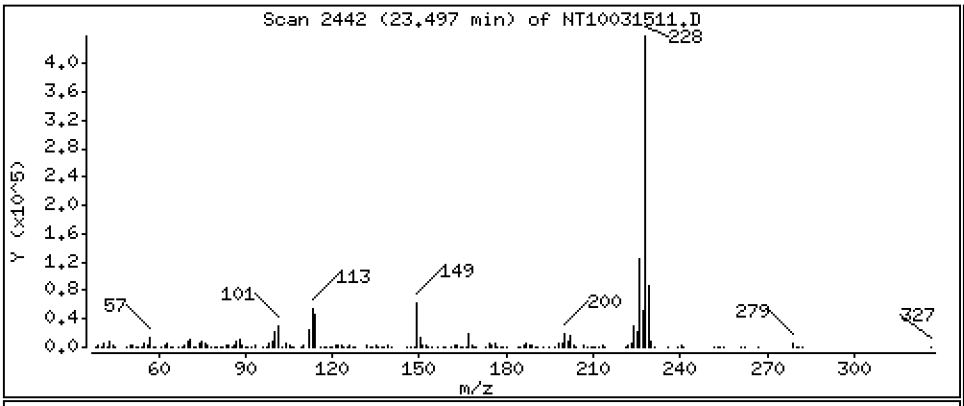
Operator: VTS

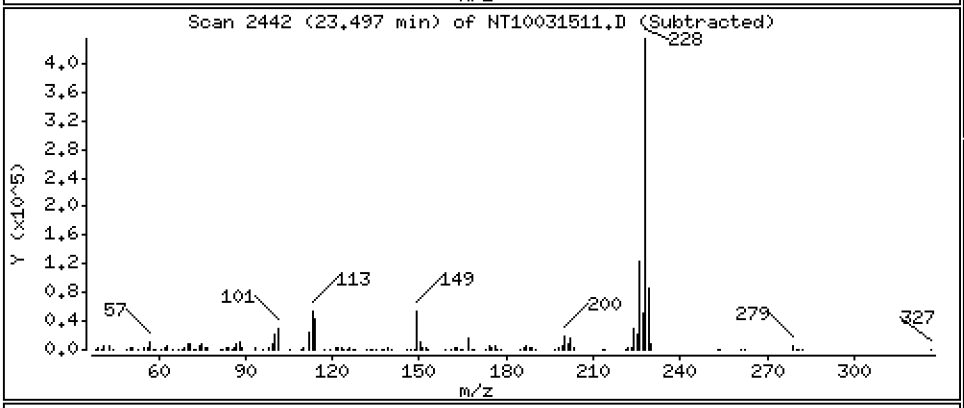
Column phase: ZB-5msi

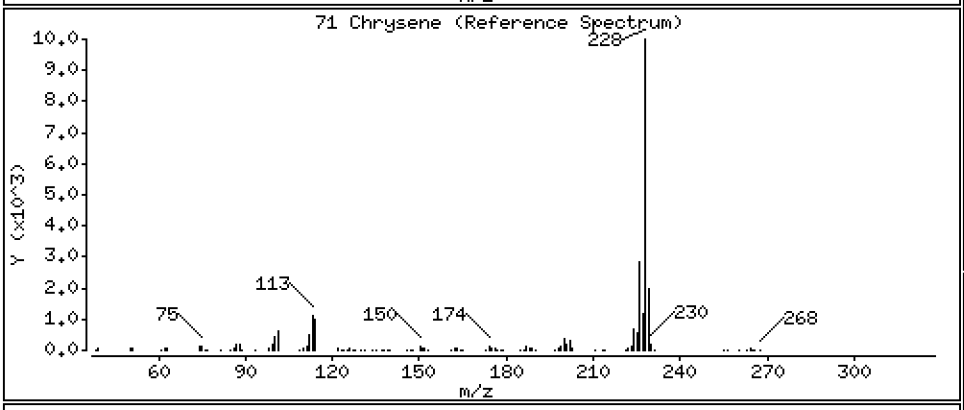
Column diameter: 0.25

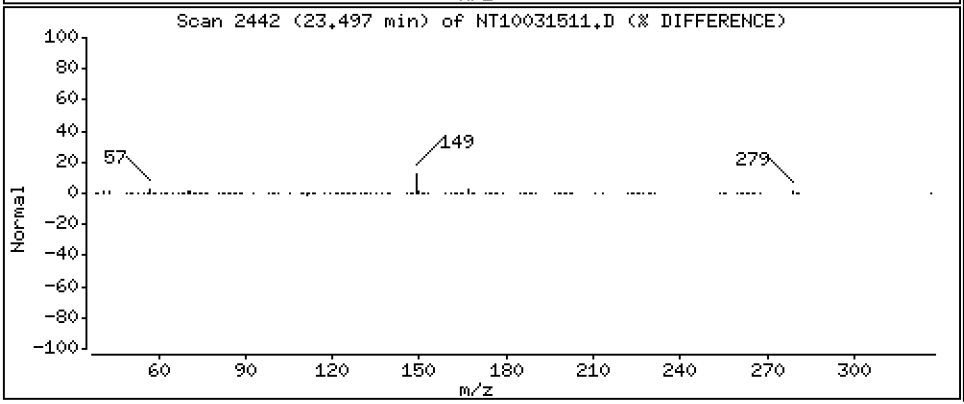
71 Chrysene

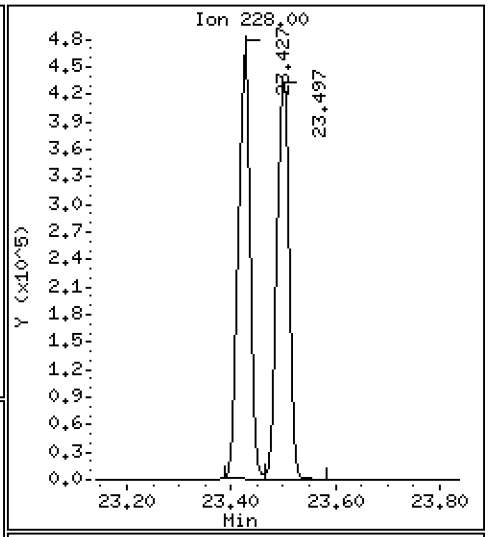
Concentration: 4.510 ug/mL

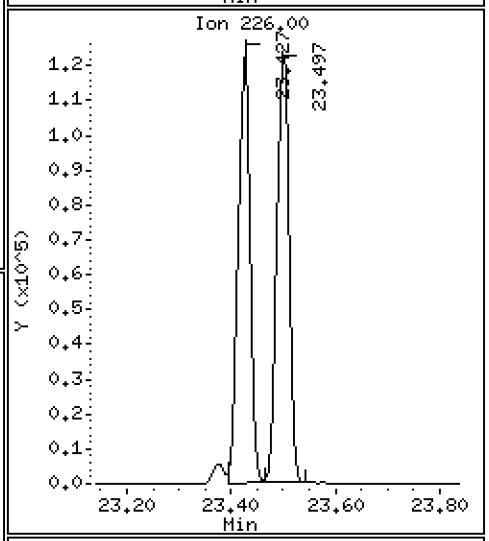


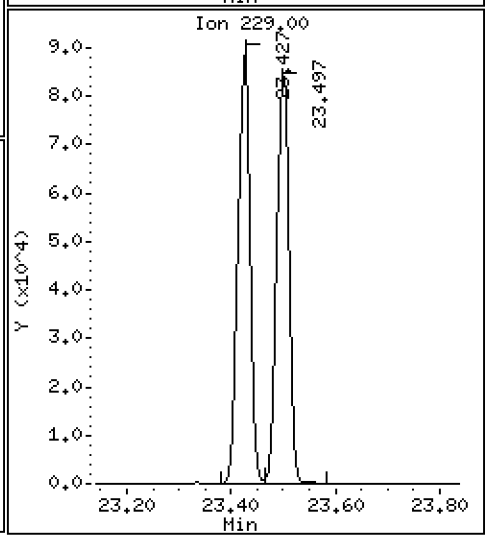












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

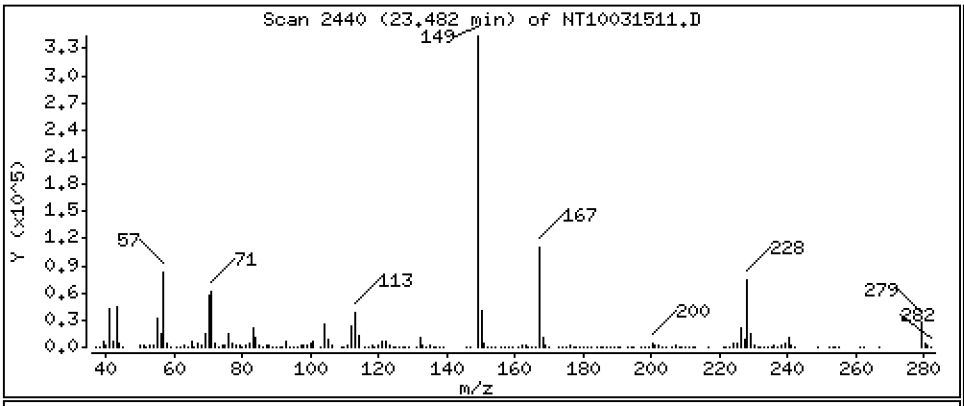
Operator: VTS

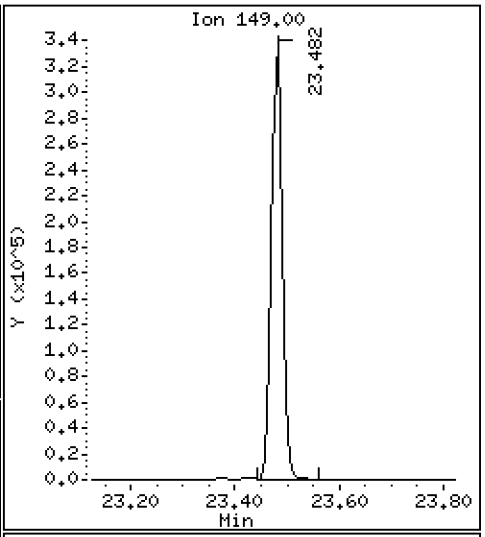
Column phase: ZB-5msi

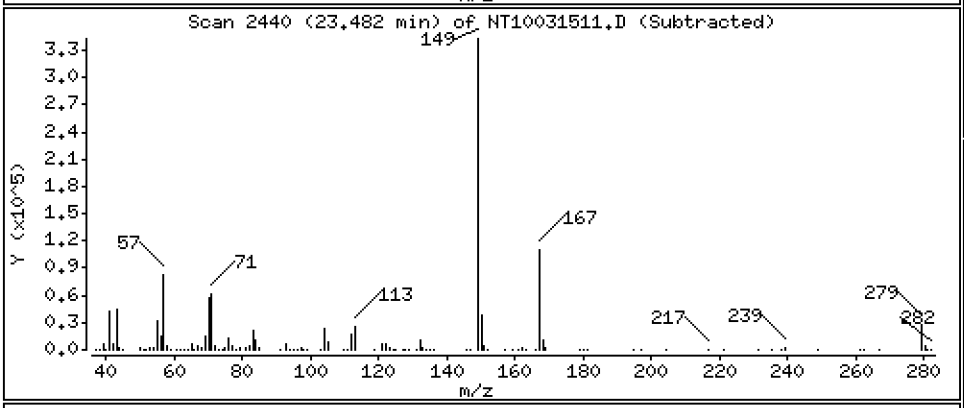
Column diameter: 0.25

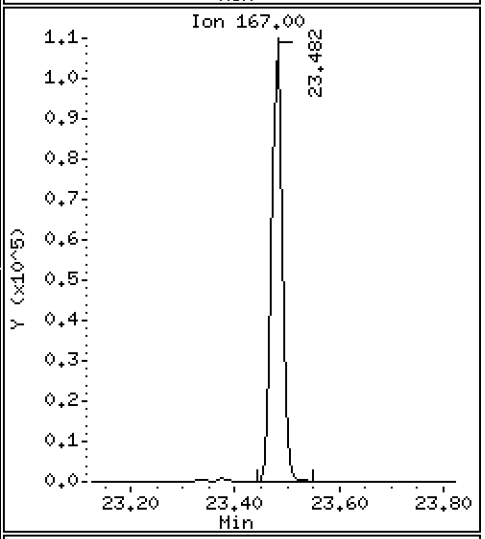
72 bis(2-Ethylhexyl)phthalate

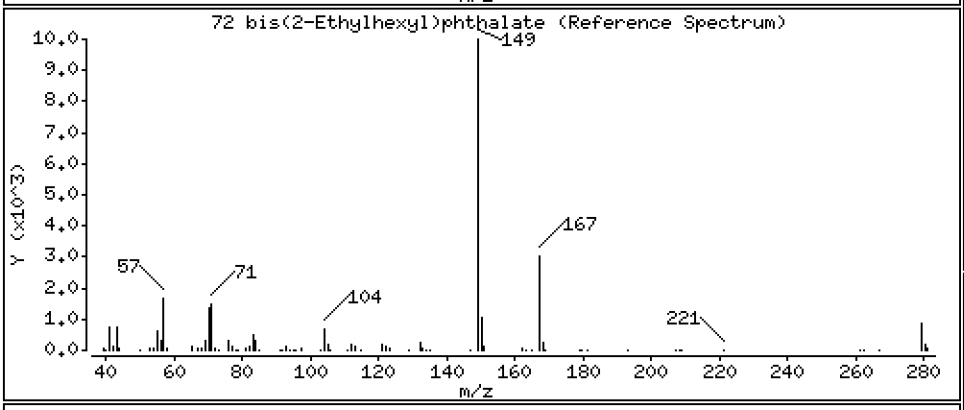
Concentration: 4.680 ug/mL

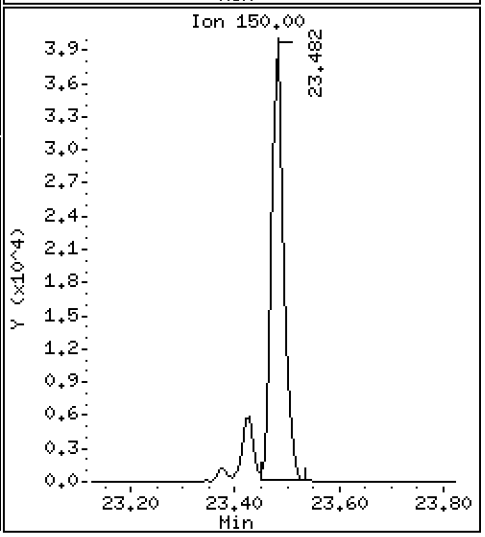


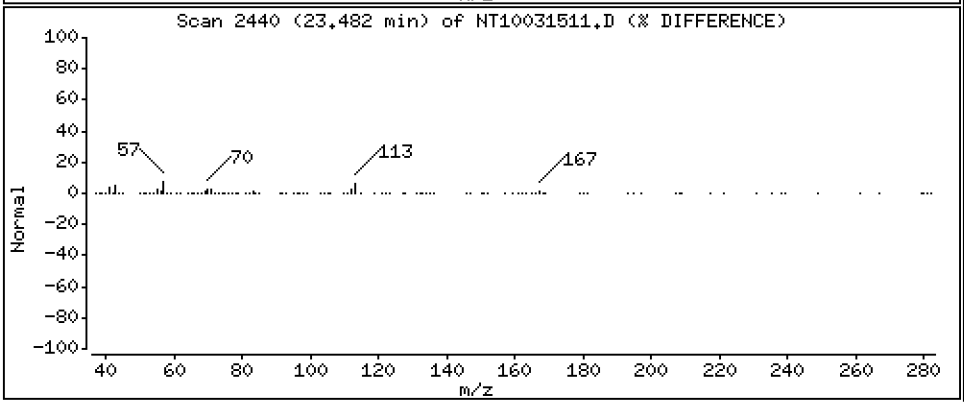












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

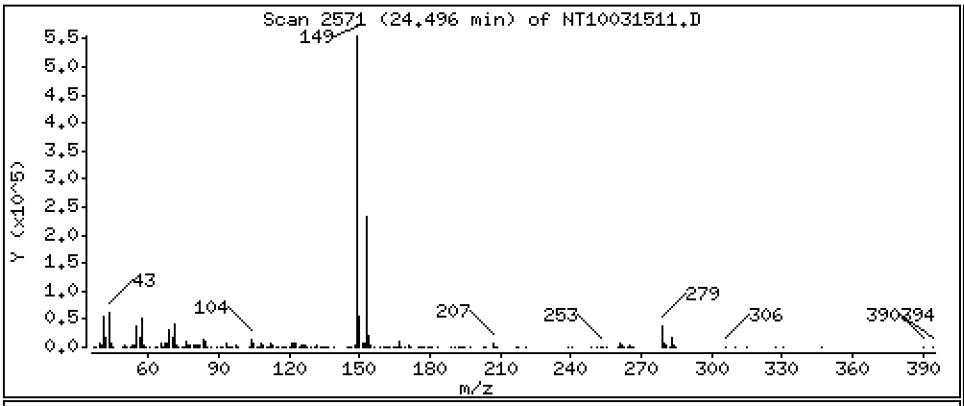
Operator: VTS

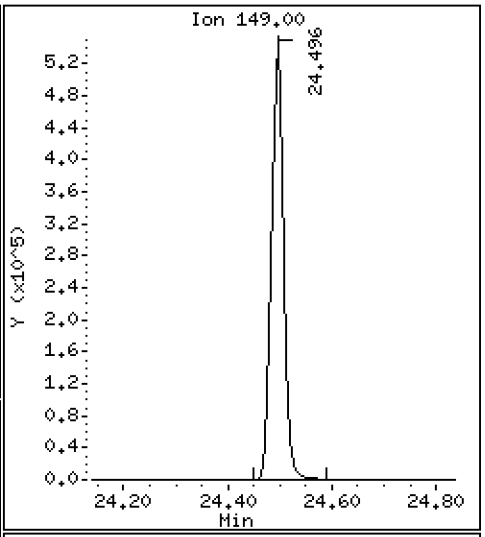
Column phase: ZB-5msi

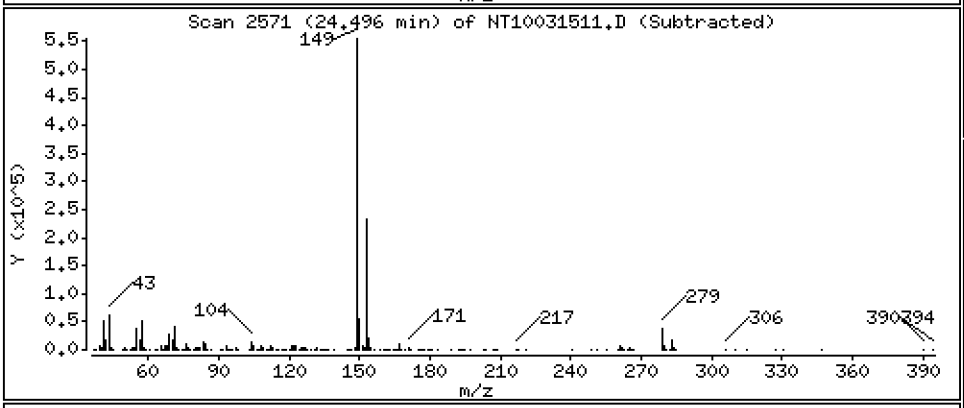
Column diameter: 0.25

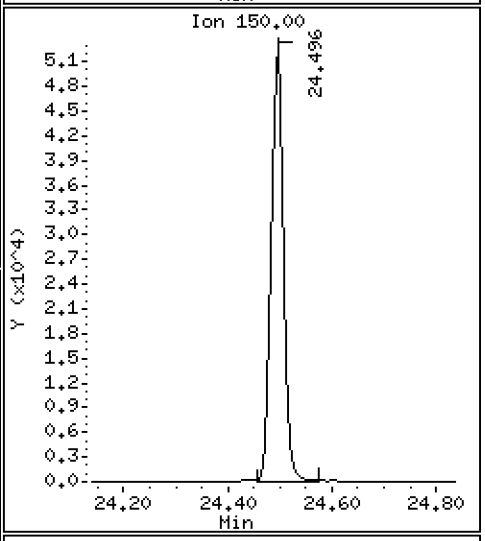
73 Di-n-octylphthalate

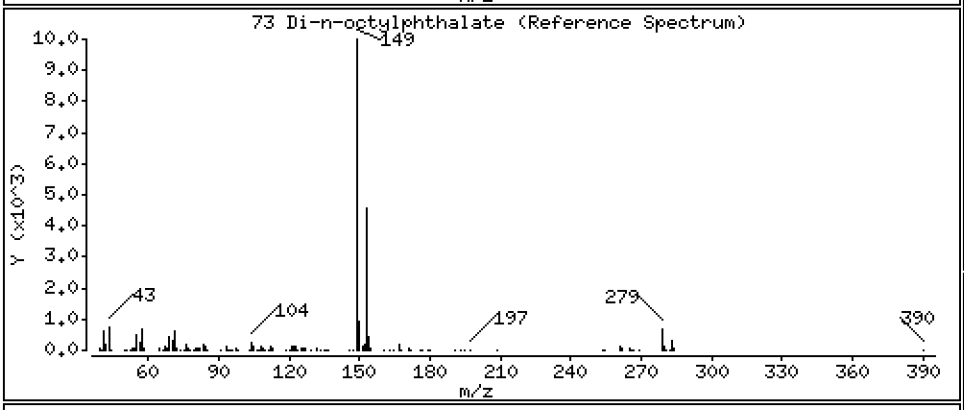
Concentration: 4.947 ug/mL

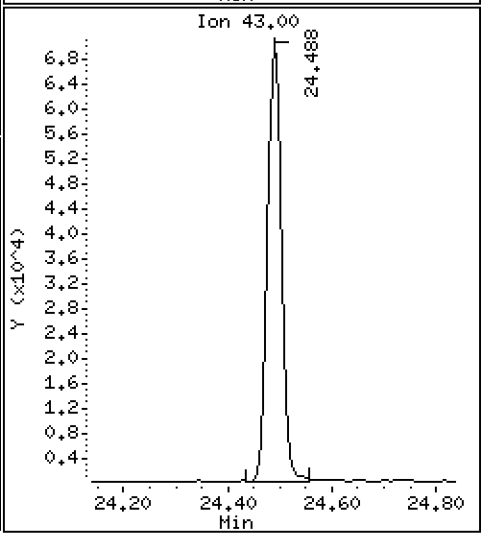


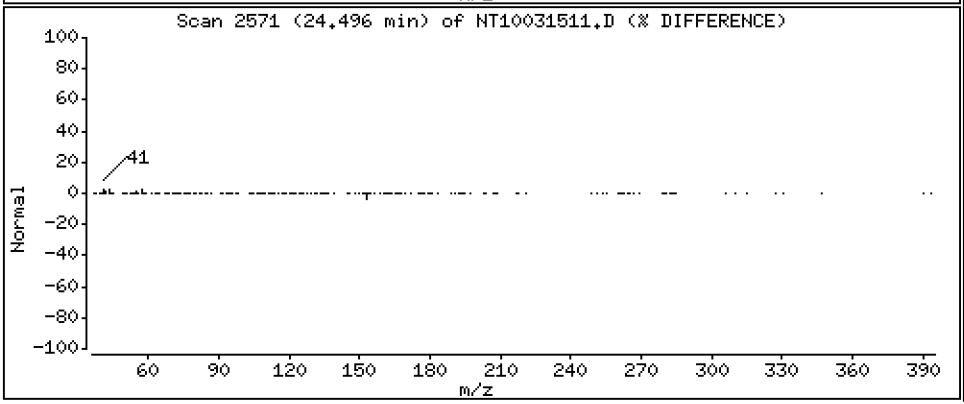












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

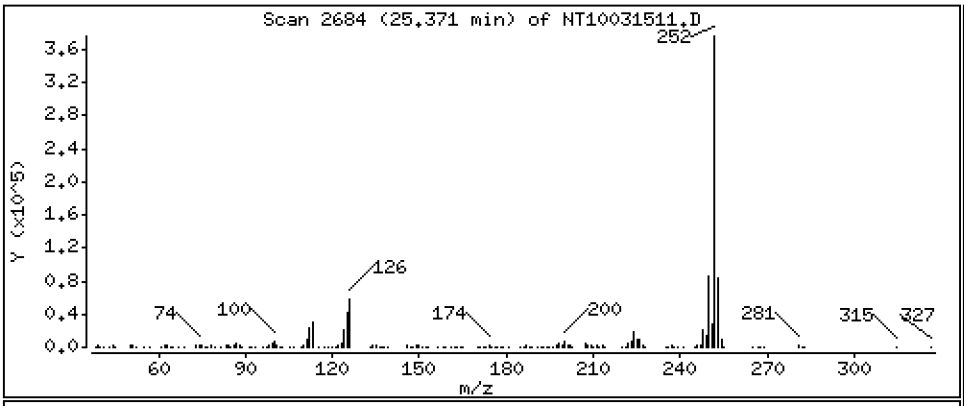
Operator: VTS

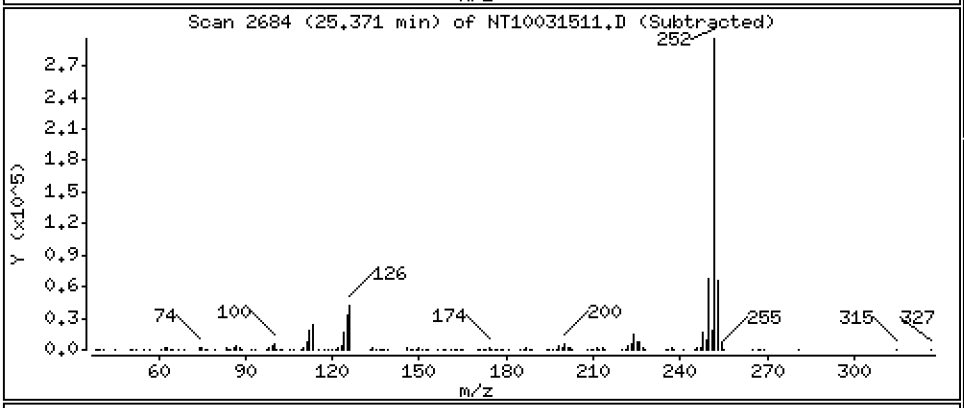
Column phase: ZB-5msi

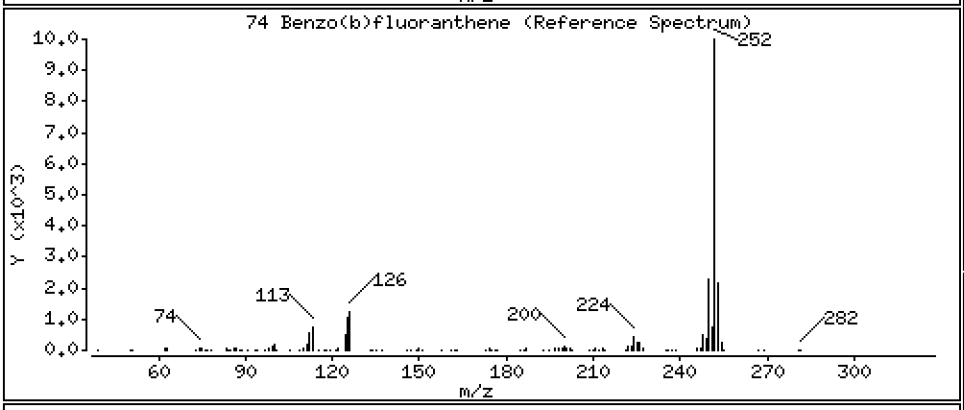
Column diameter: 0.25

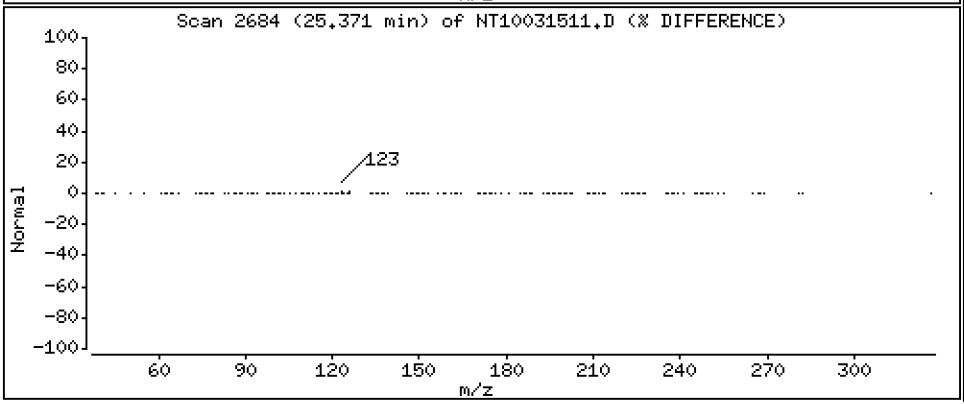
74 Benzo(b)fluoranthene

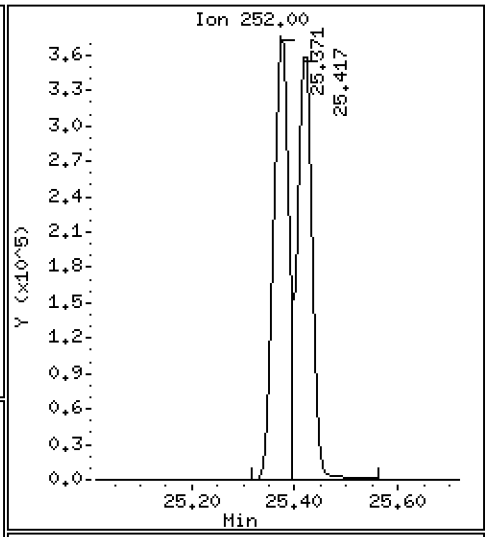
Concentration: 4.602 ug/mL

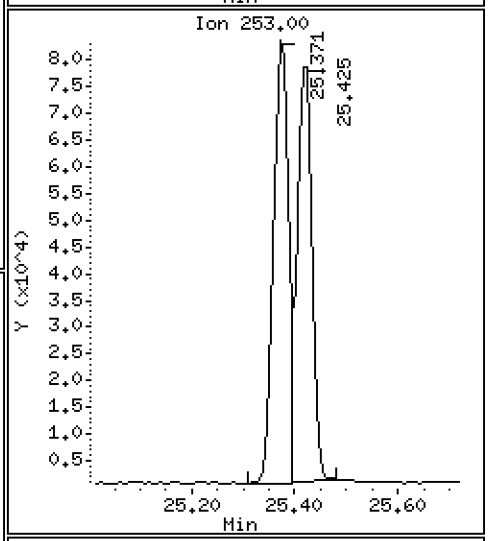


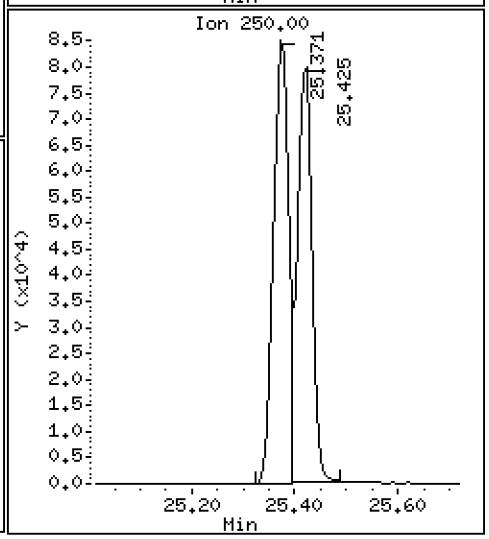












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

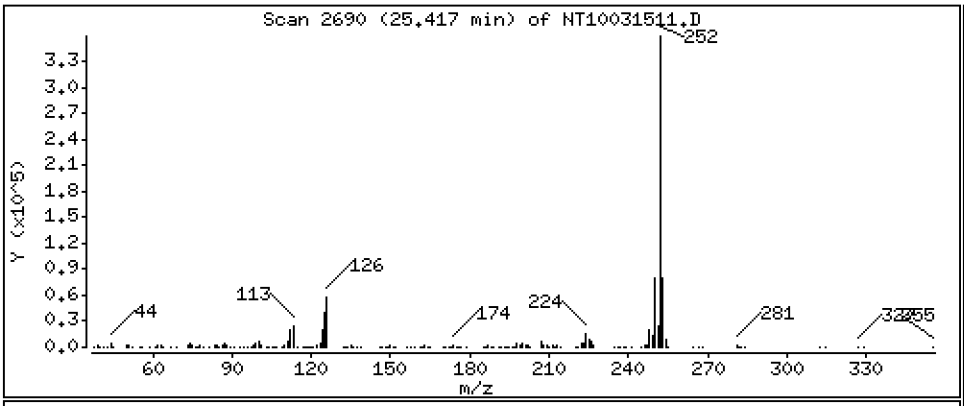
Operator: VTS

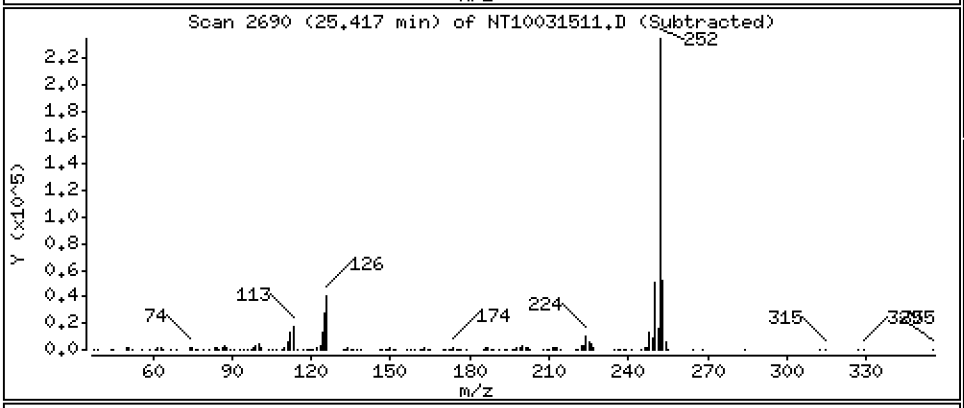
Column phase: ZB-5msi

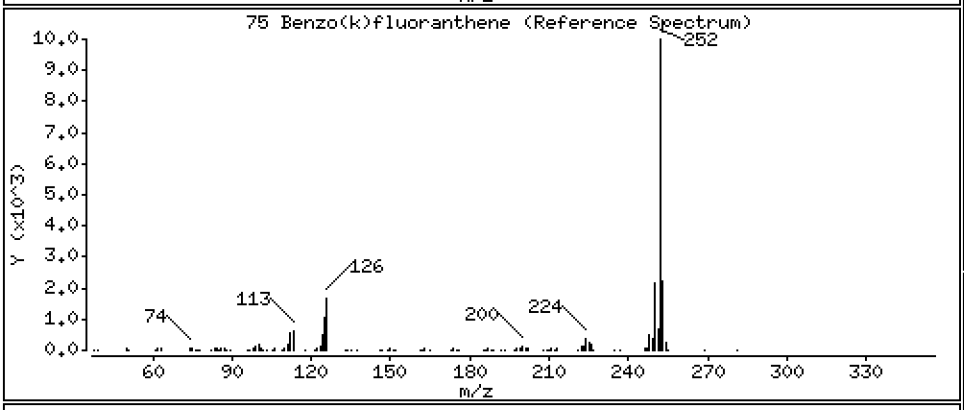
Column diameter: 0.25

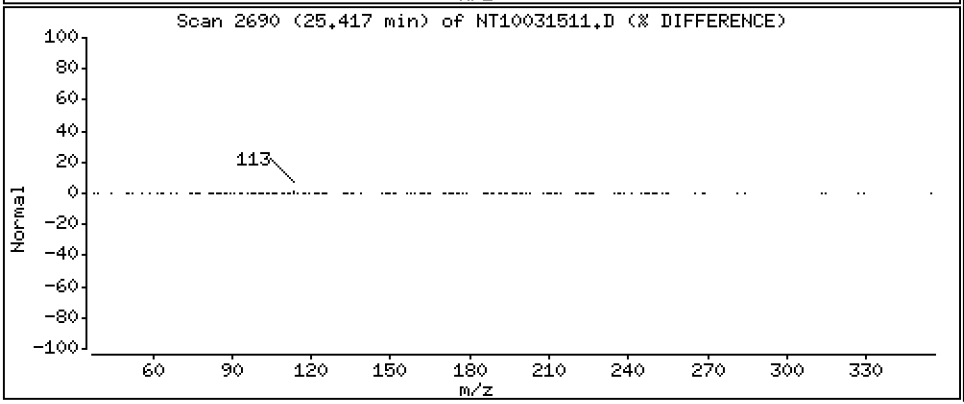
75 Benzo(k)fluoranthene

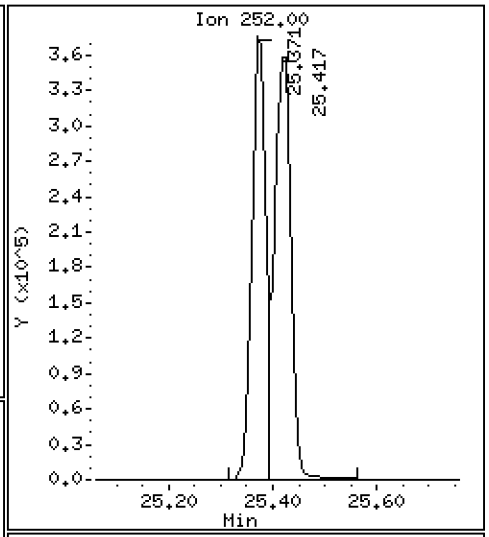
Concentration: 4.898 ug/mL

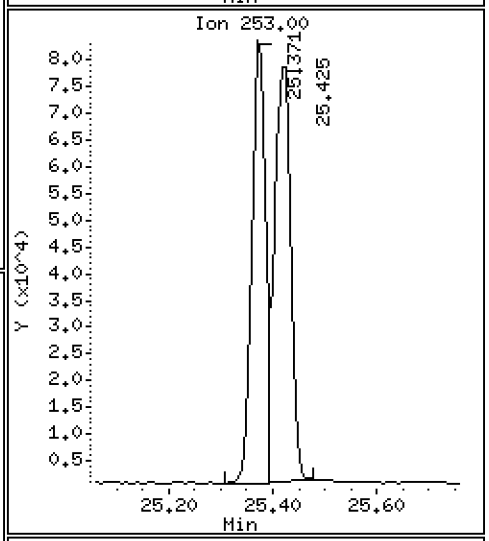


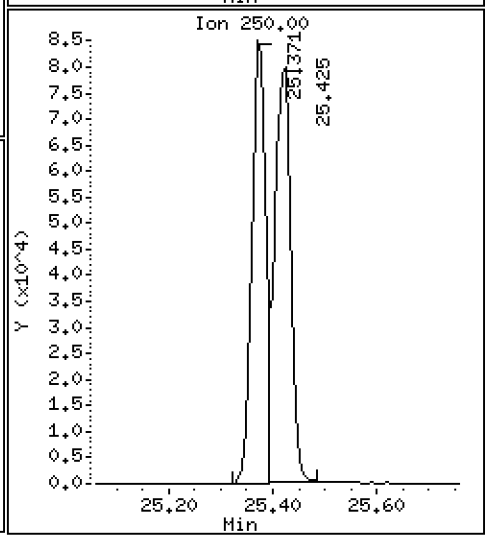












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

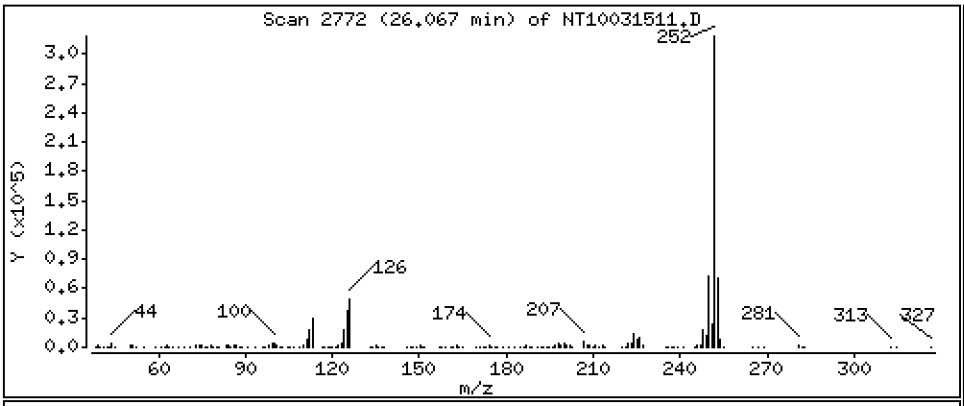
Operator: VTS

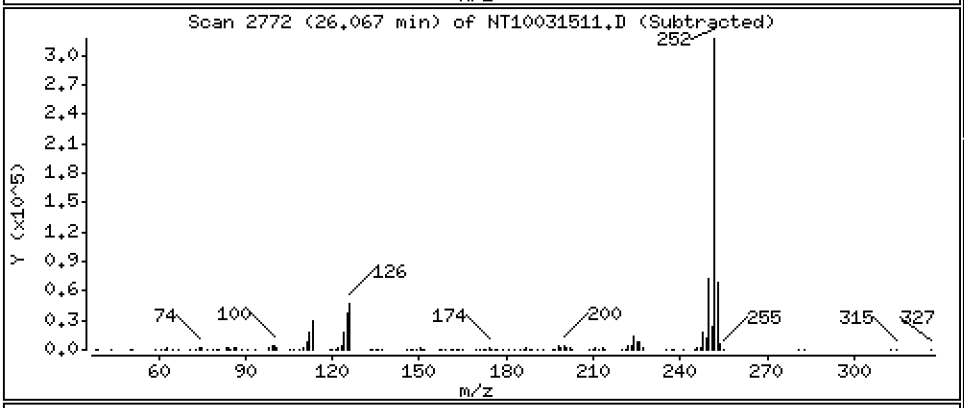
Column phase: ZB-5msi

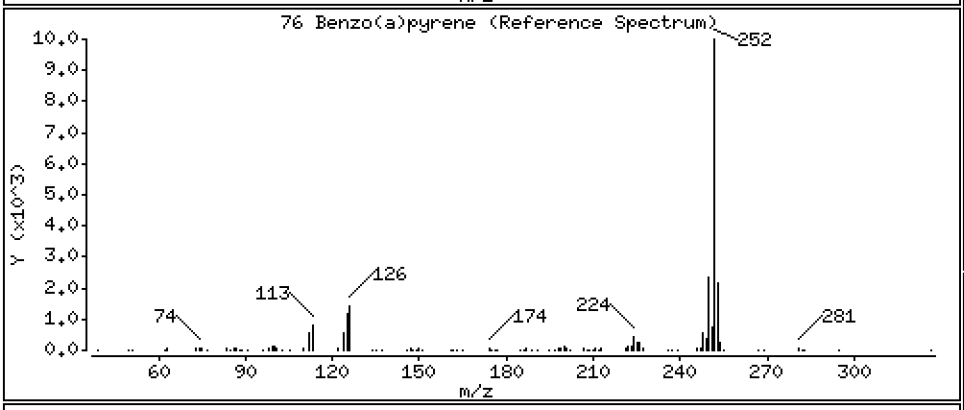
Column diameter: 0.25

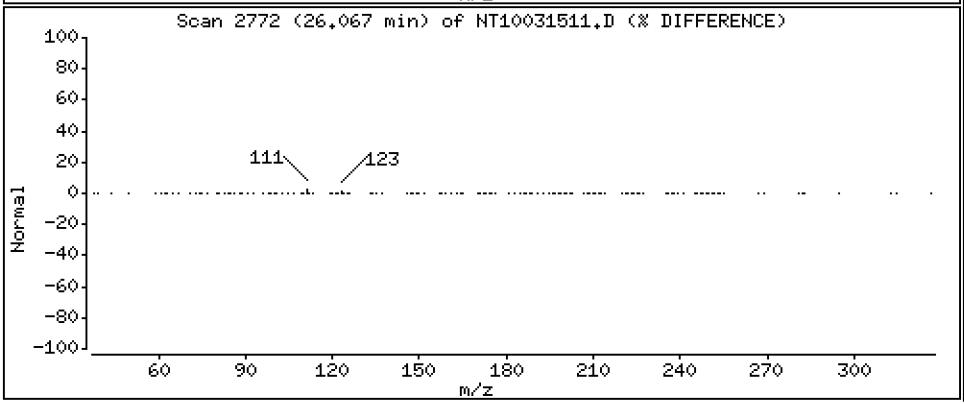
76 Benzo(a)pyrene

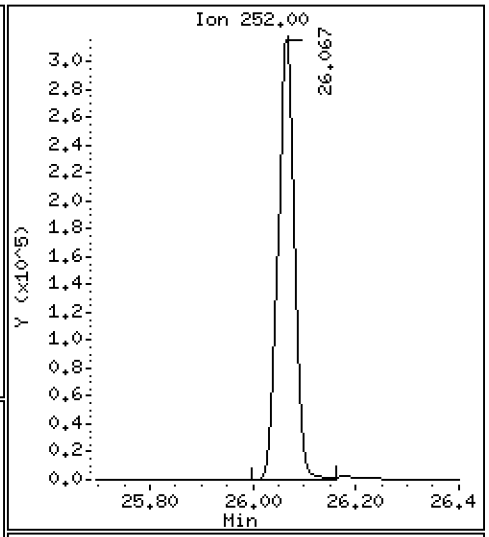
Concentration: 4.873 ug/mL

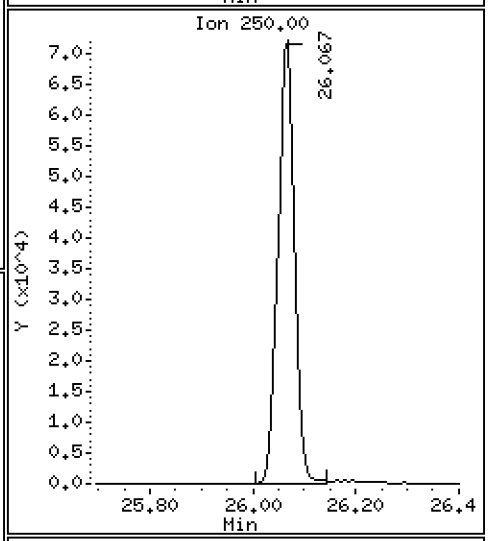


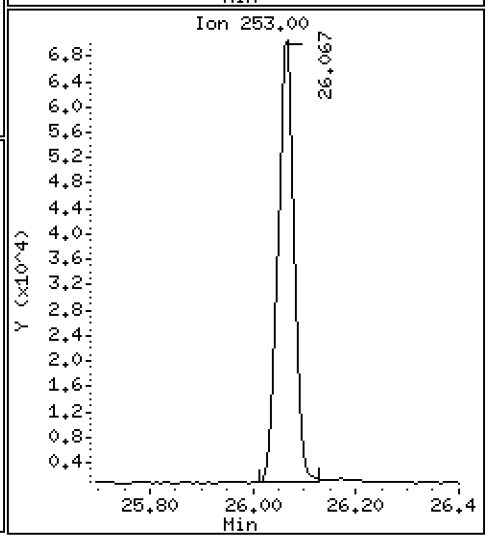












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

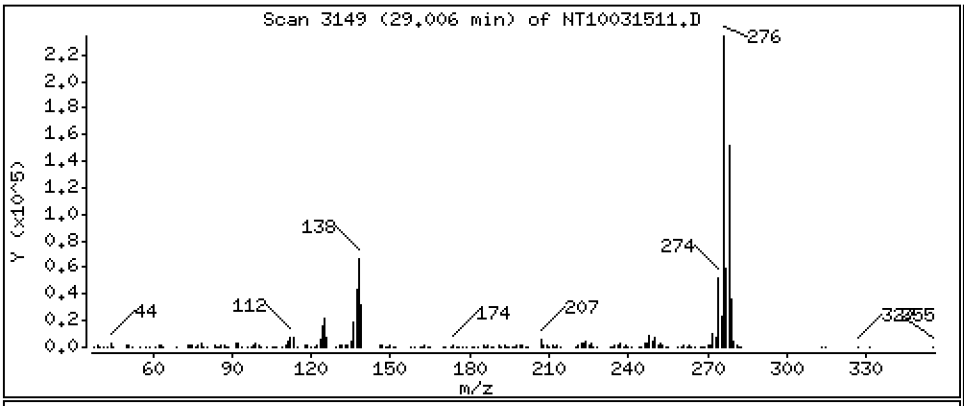
Operator: VTS

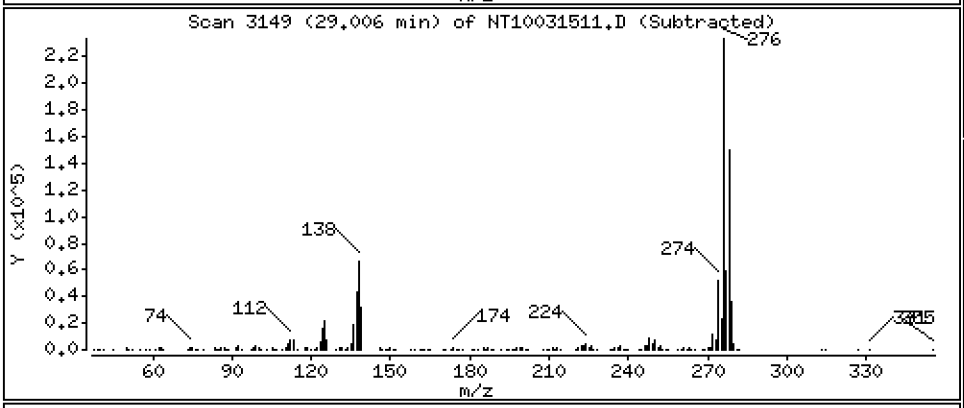
Column phase: ZB-5msi

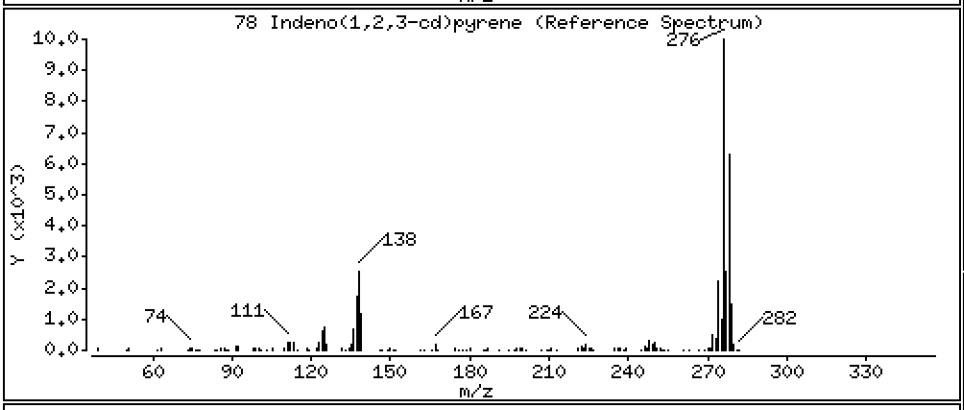
Column diameter: 0.25

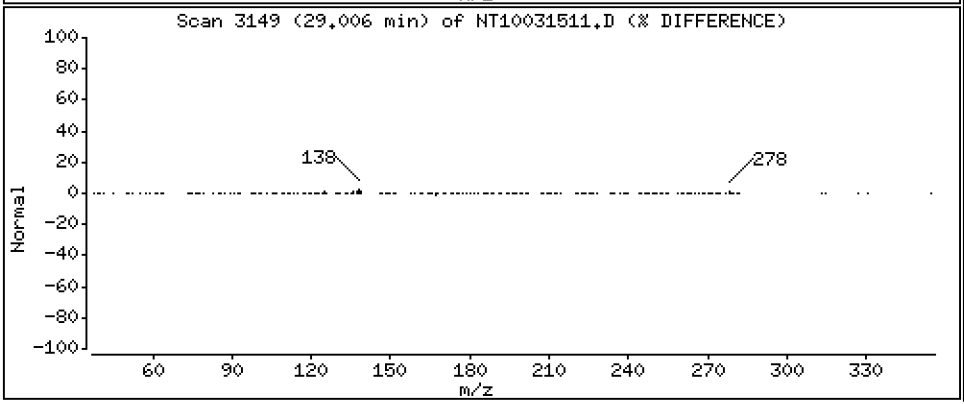
78 Indeno(1,2,3-cd)pyrene

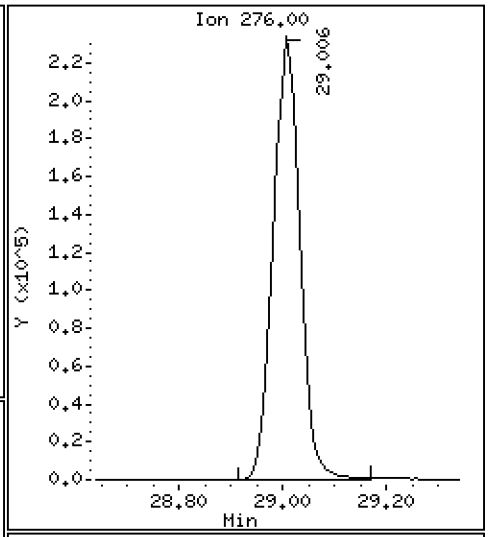
Concentration: 4.577 ug/mL

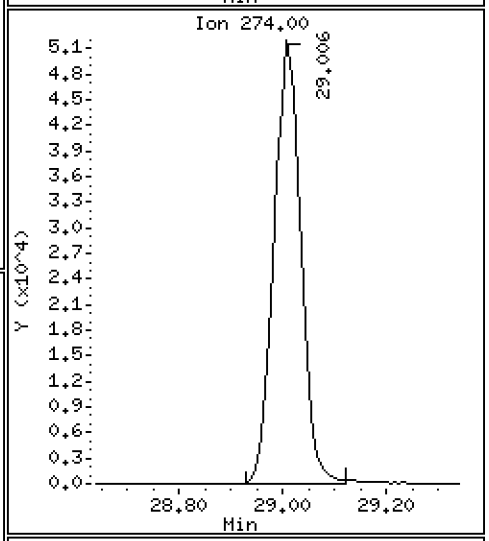


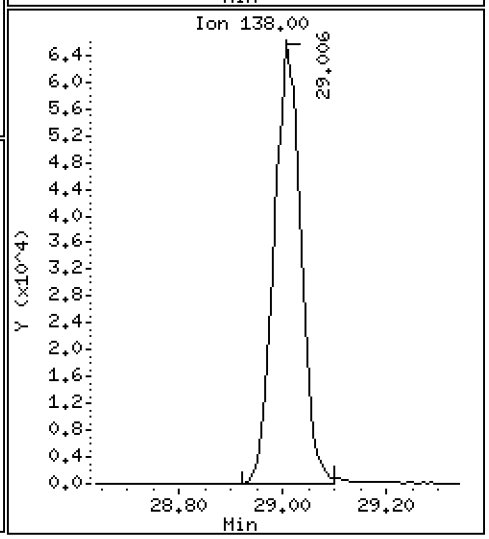












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

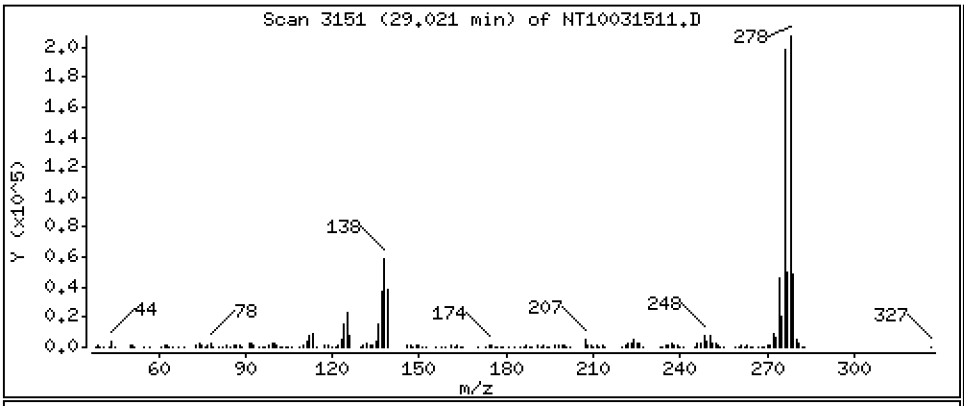
Operator: VTS

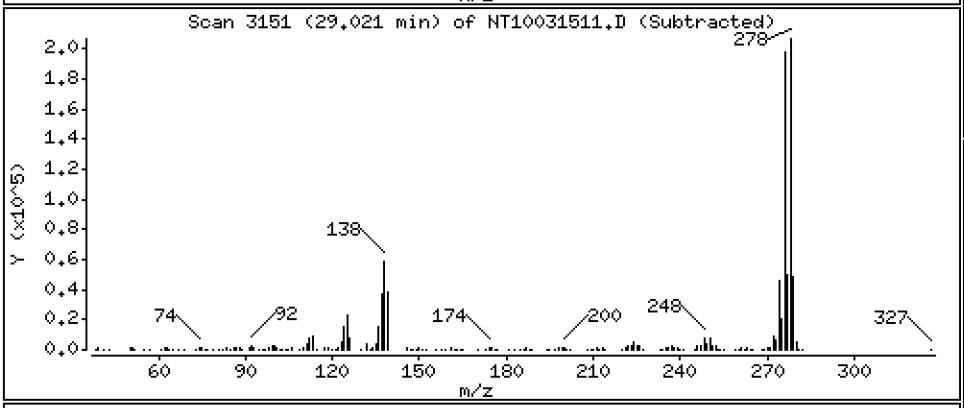
Column phase: ZB-5msi

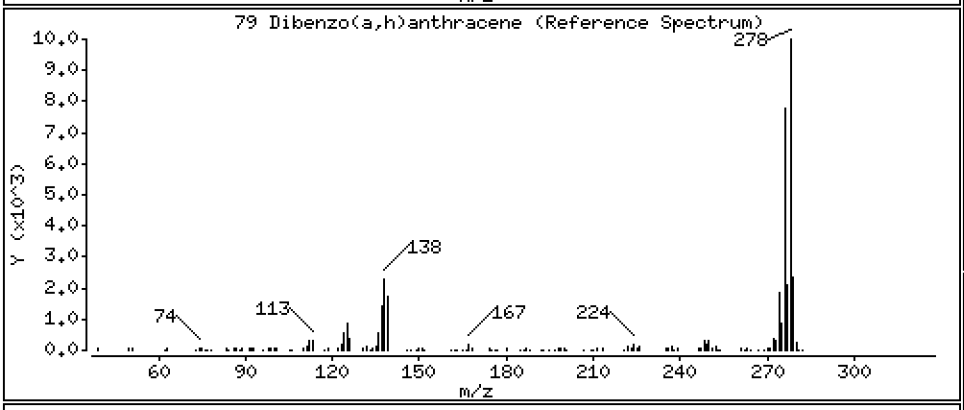
Column diameter: 0.25

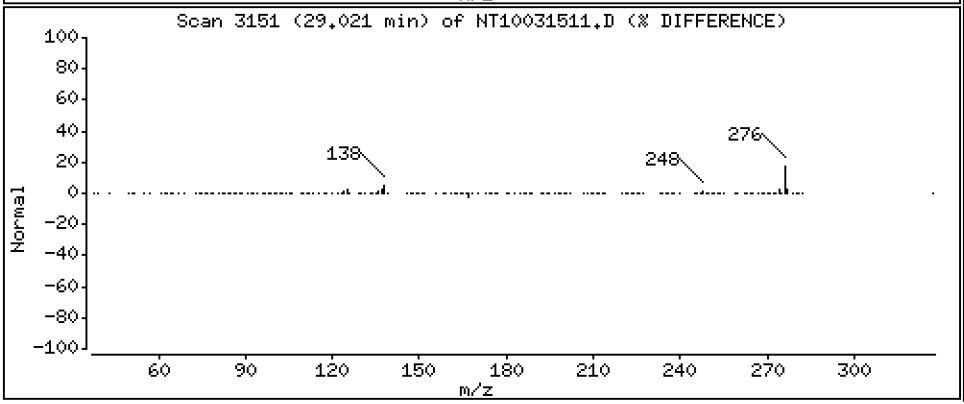
79 Dibenzo(a,h)anthracene

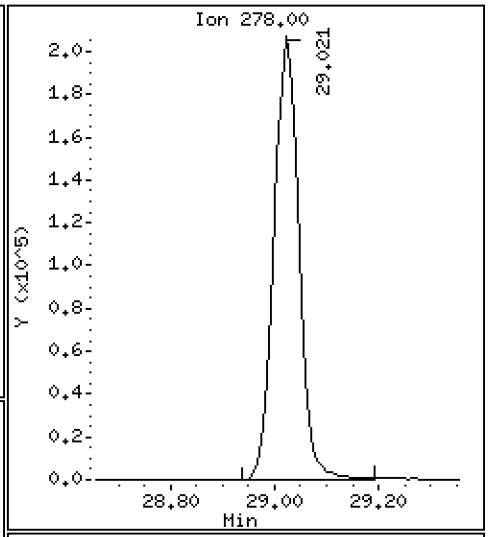
Concentration: 4.547 ug/mL

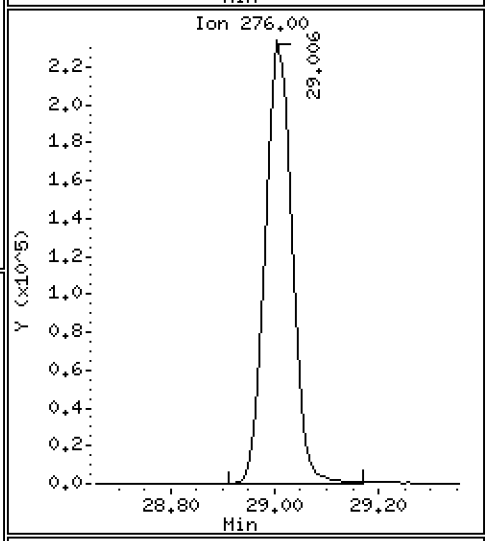


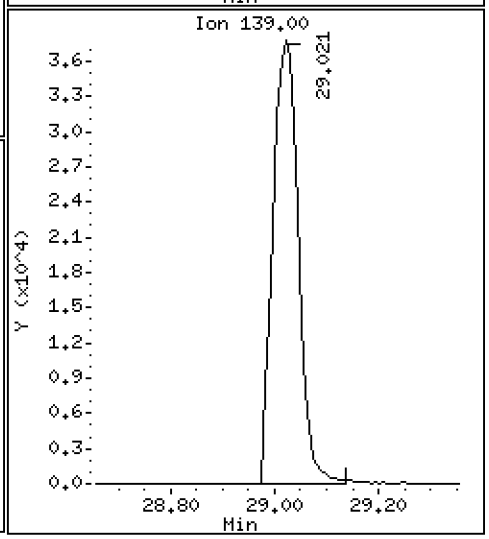












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

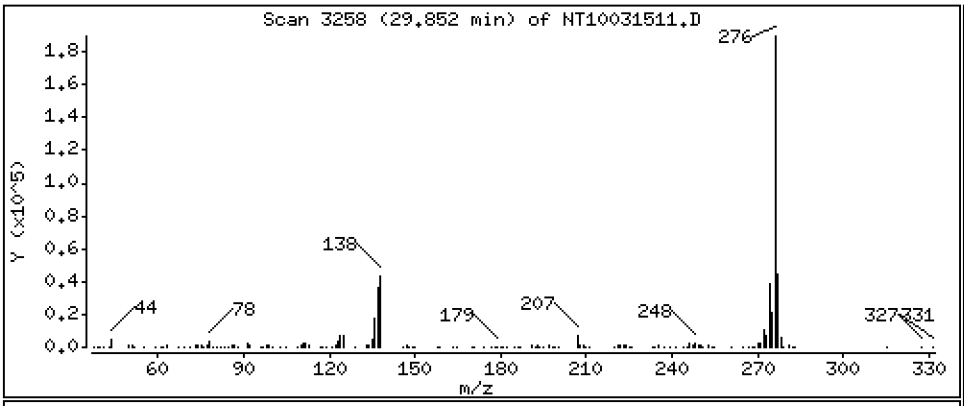
Operator: VTS

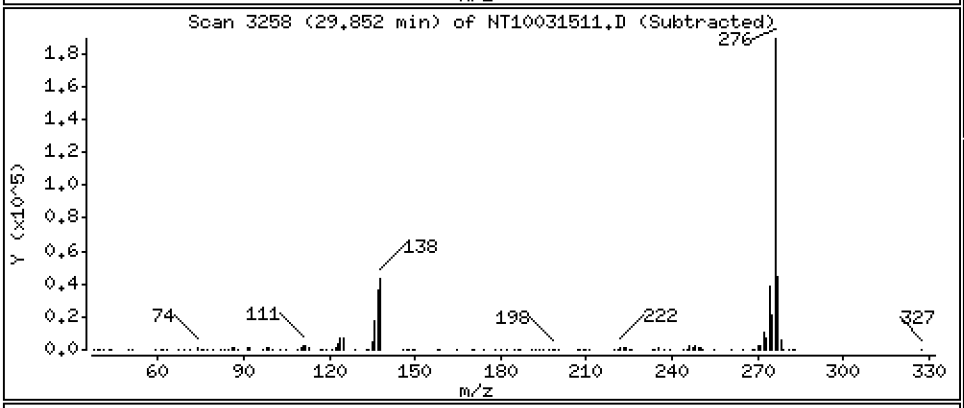
Column phase: ZB-5msi

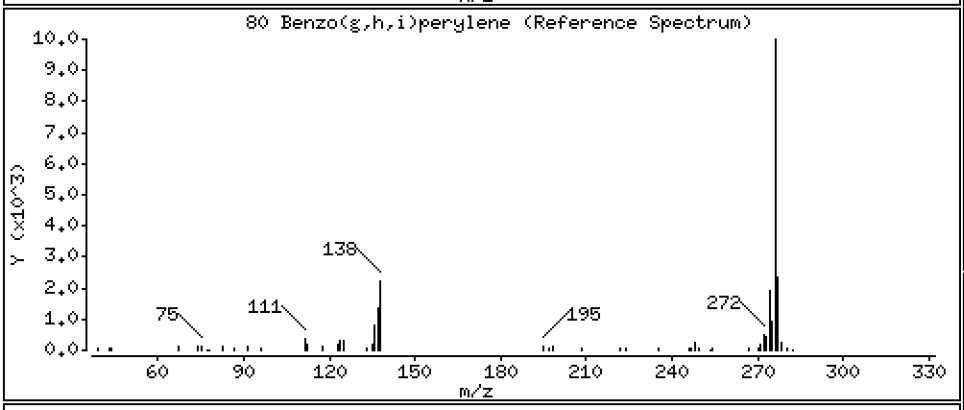
Column diameter: 0.25

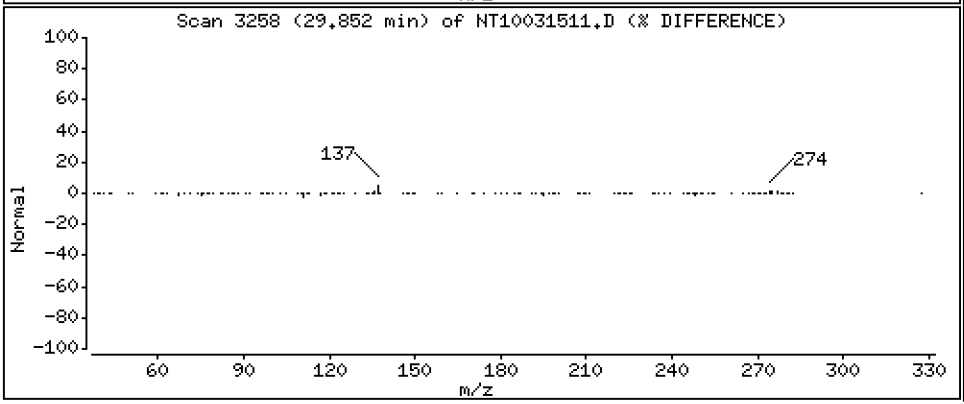
80 Benzo(g,h,i)perylene

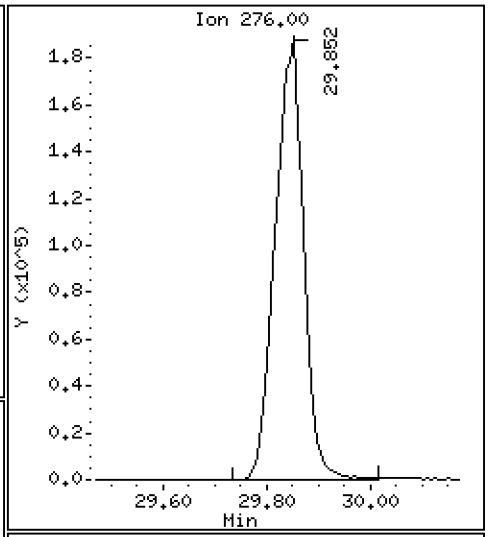
Concentration: 4.590 ug/mL

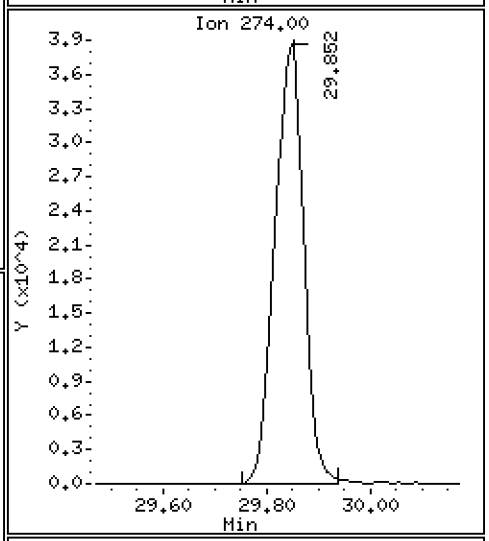


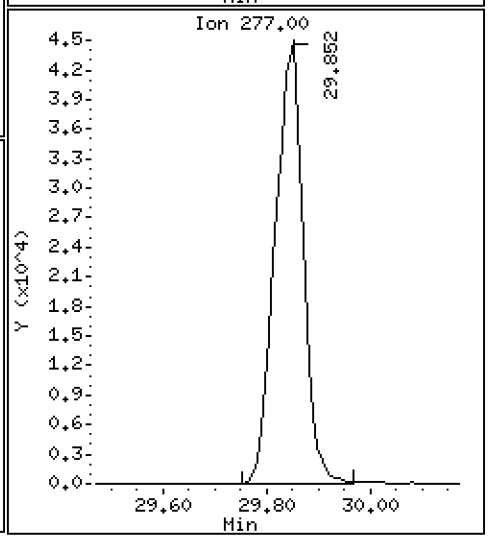












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

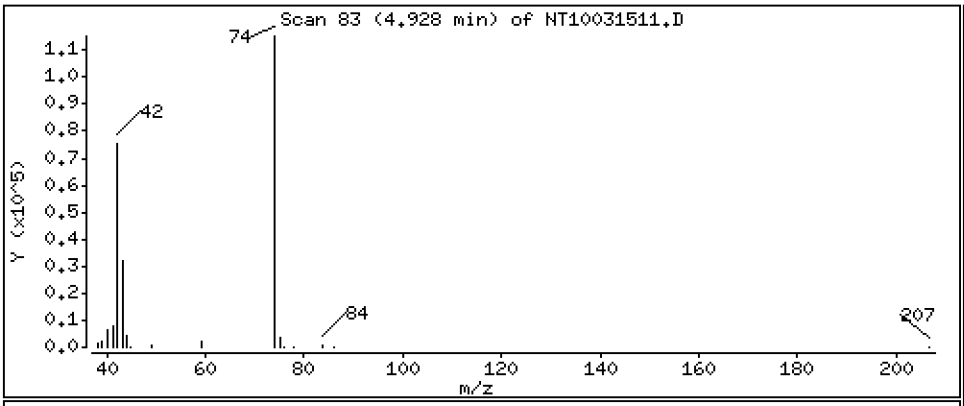
Operator: VTS

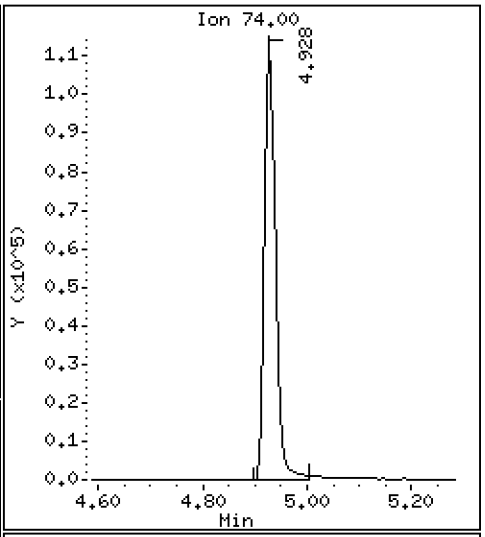
Column phase: ZB-5msi

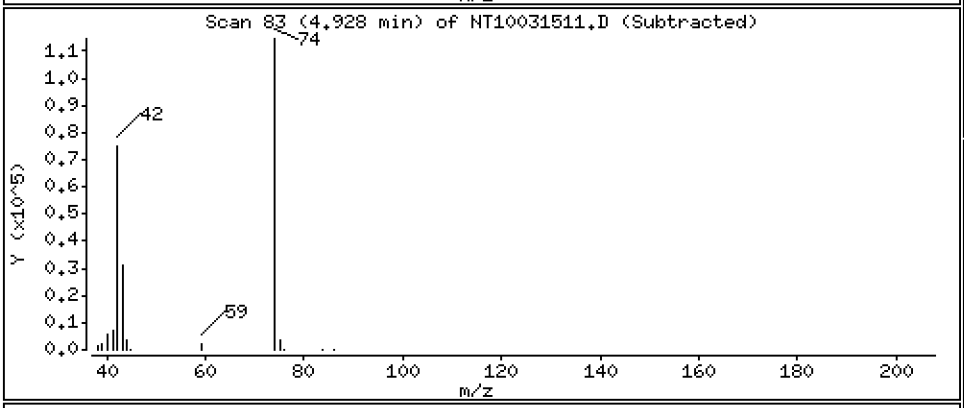
Column diameter: 0.25

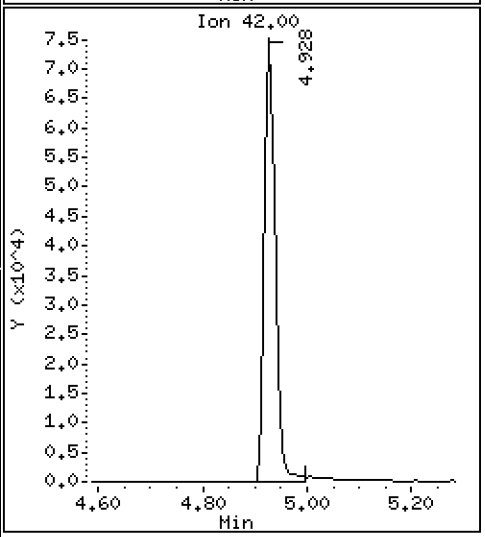
90 N-Nitrosodimethylamine

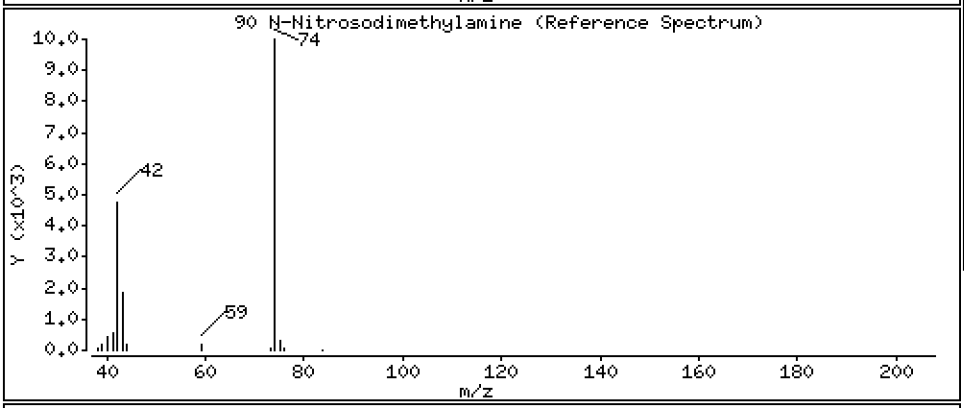
Concentration: 5.194 ug/mL

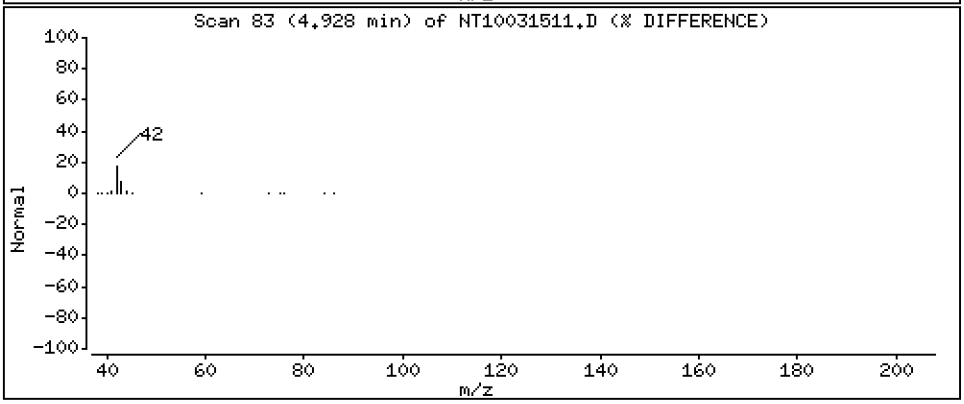












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

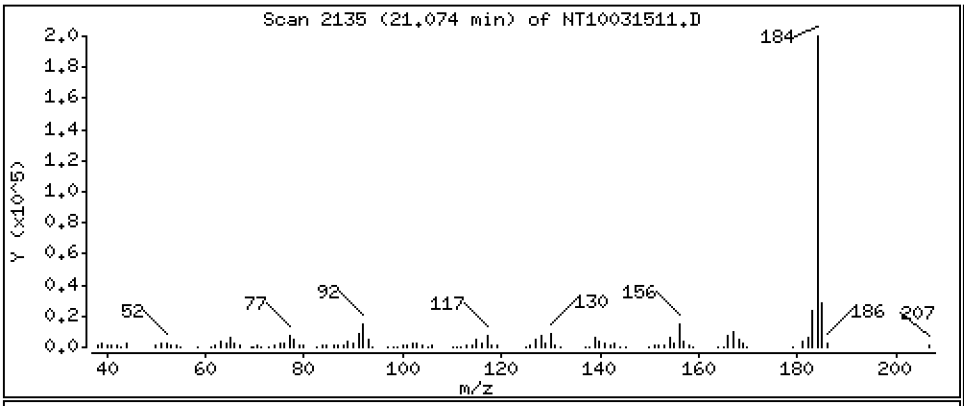
Operator: VTS

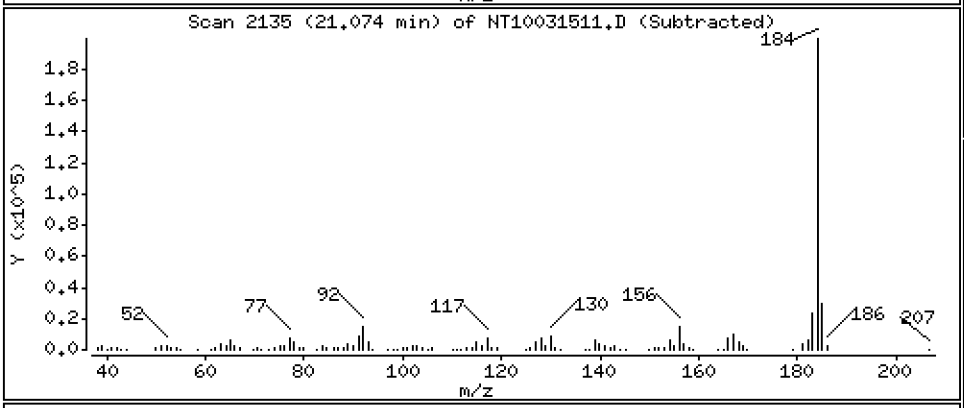
Column phase: ZB-5msi

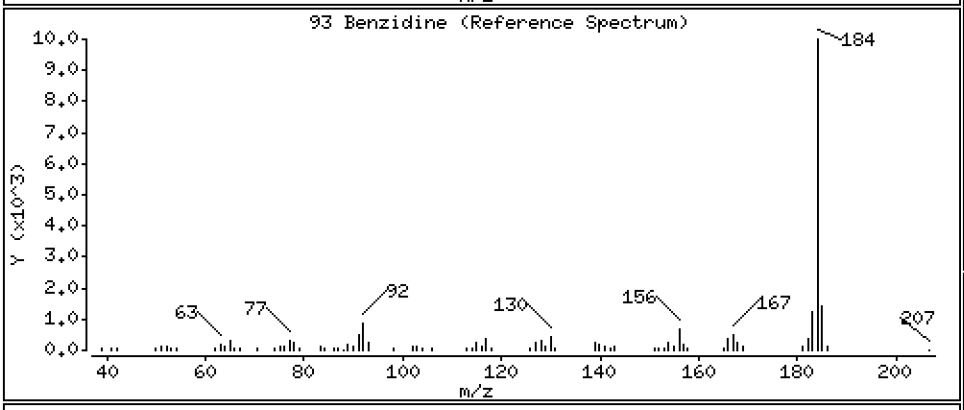
Column diameter: 0.25

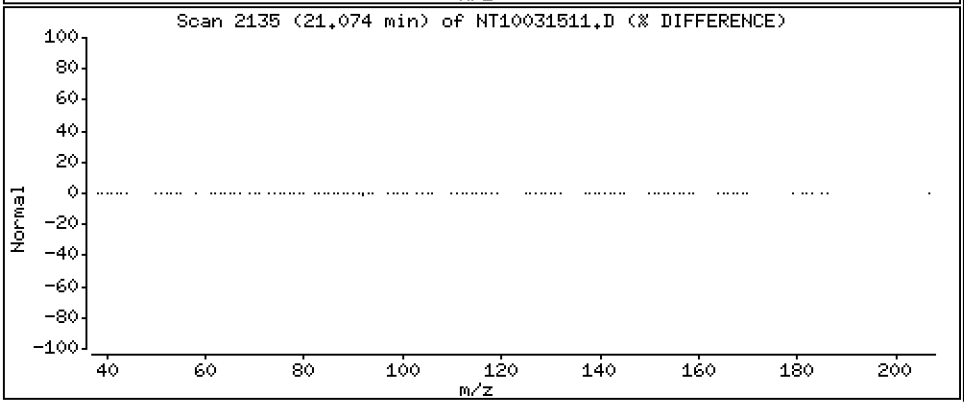
93 Benzidine

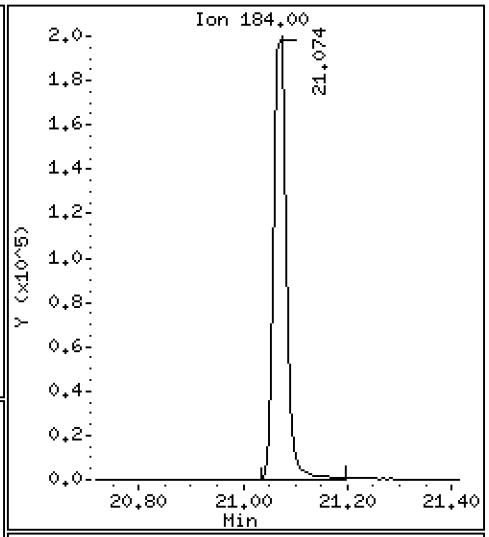
Concentration: 4.380 ug/mL

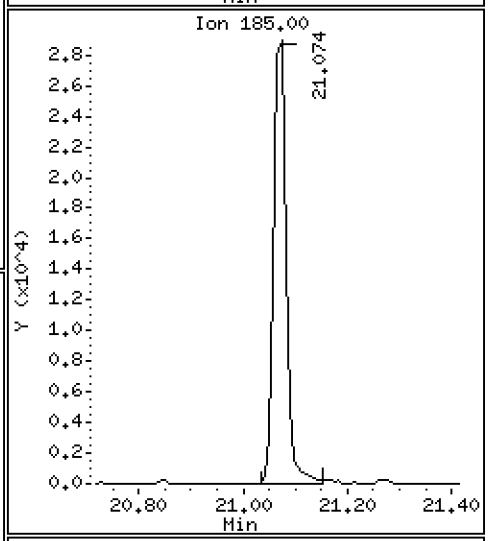


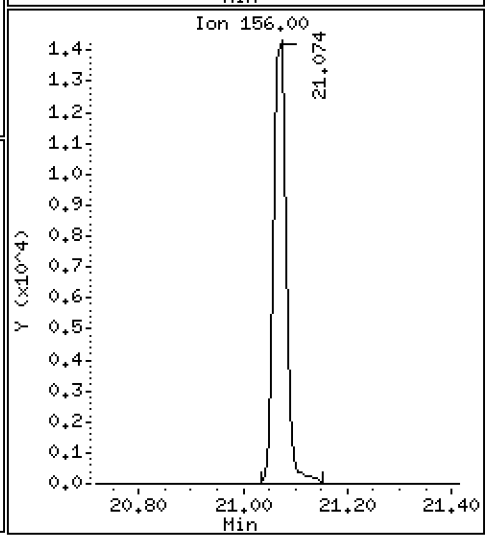












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

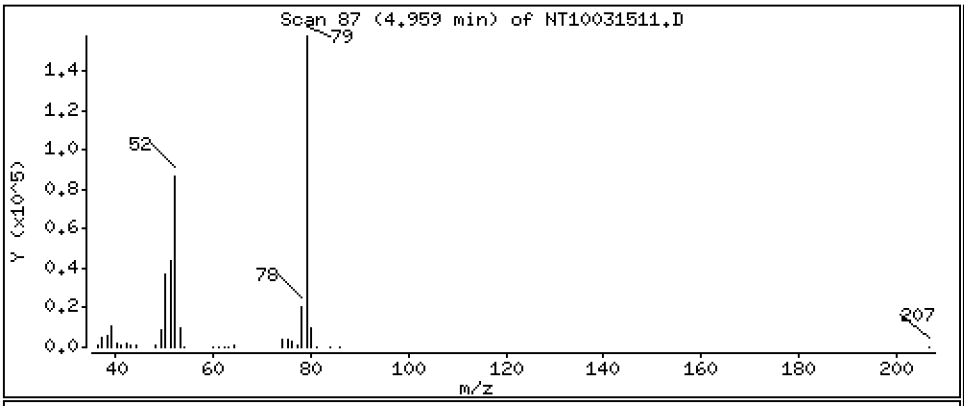
Operator: VTS

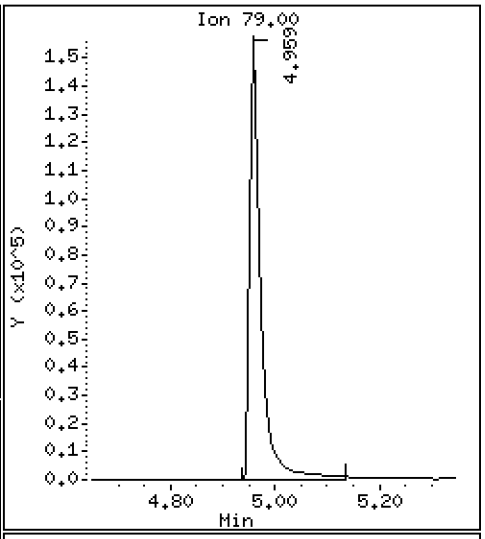
Column phase: ZB-5msi

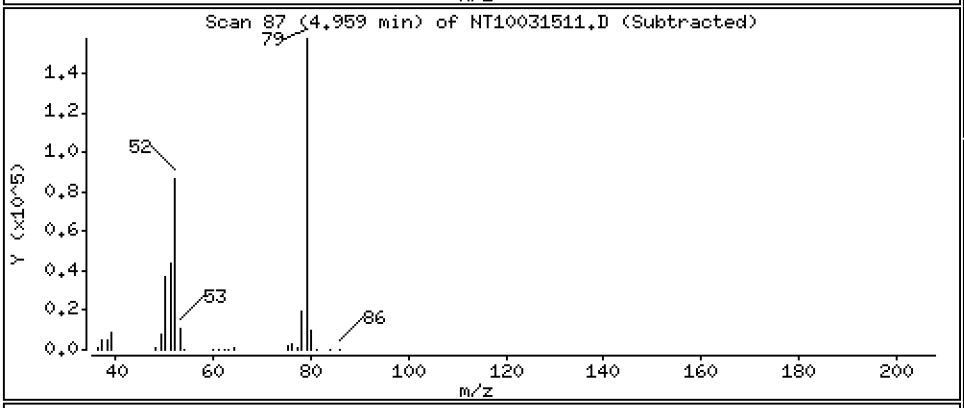
Column diameter: 0.25

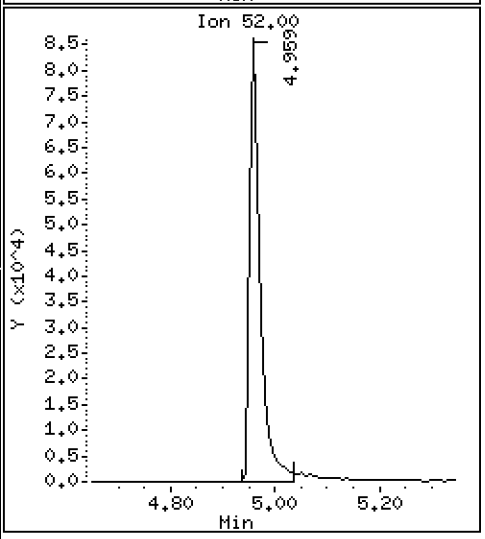
103 Pyridine

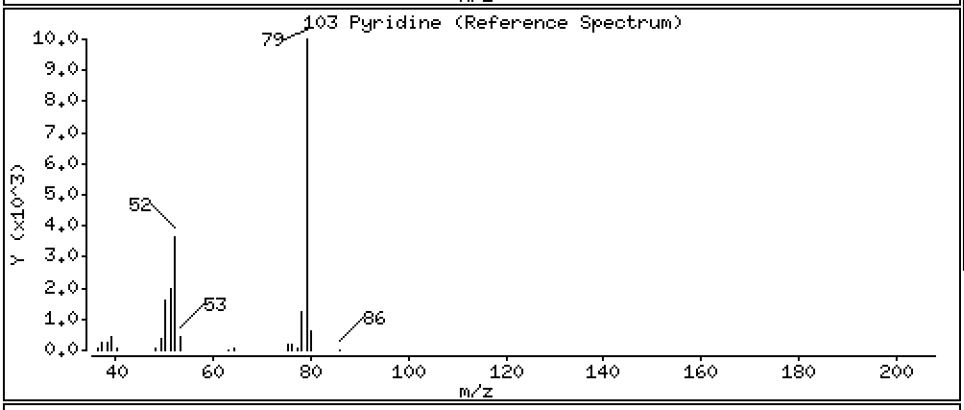
Concentration: 5.337 ug/mL

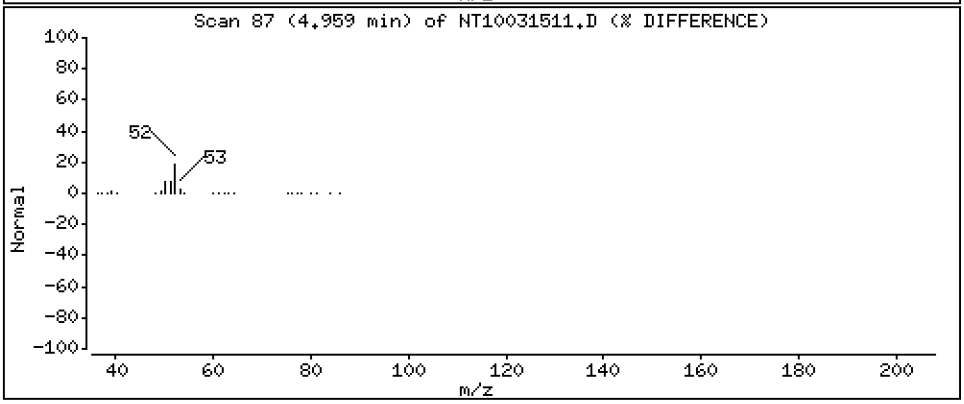












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

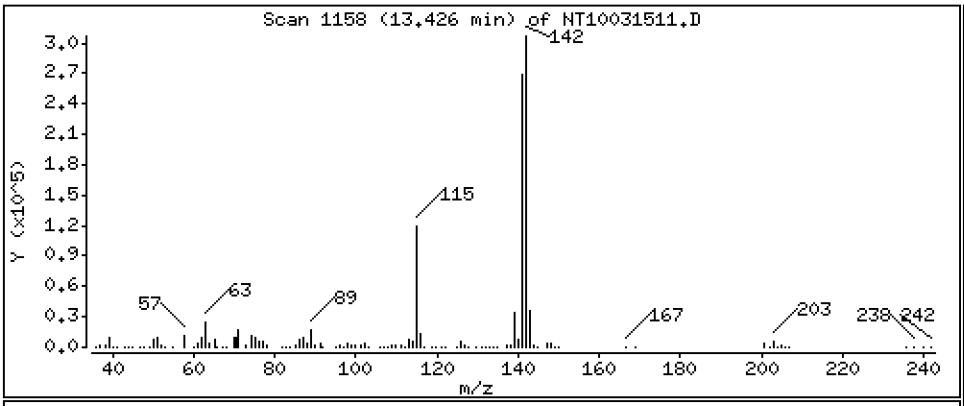
Operator: VTS

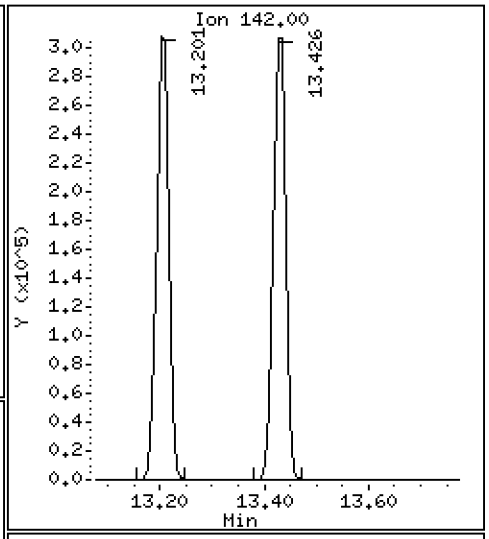
Column phase: ZB-5msi

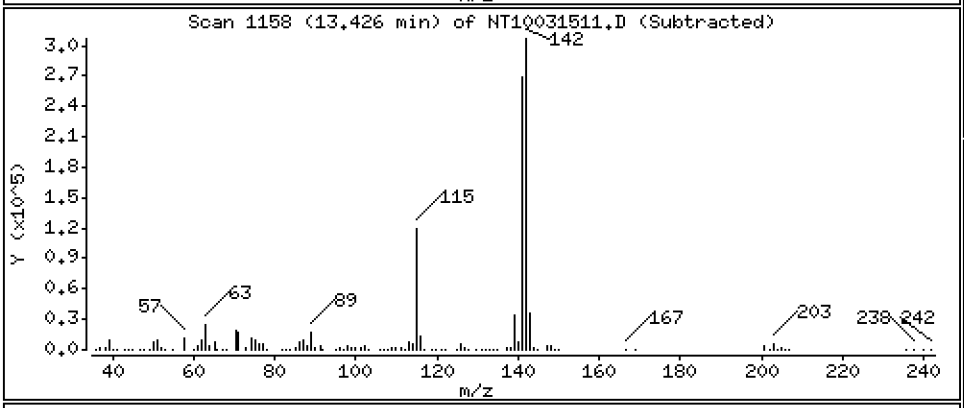
Column diameter: 0.25

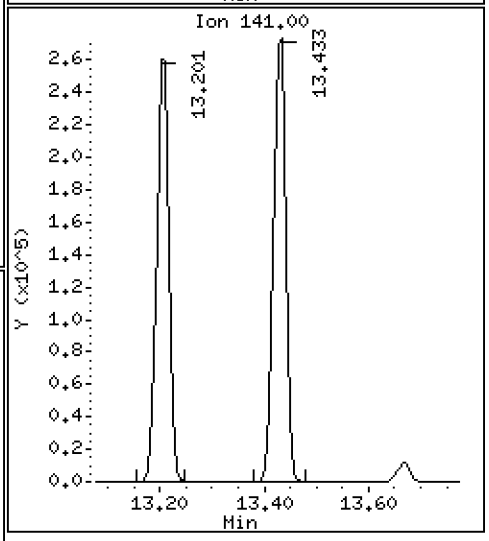
105 1-methylnaphthalene

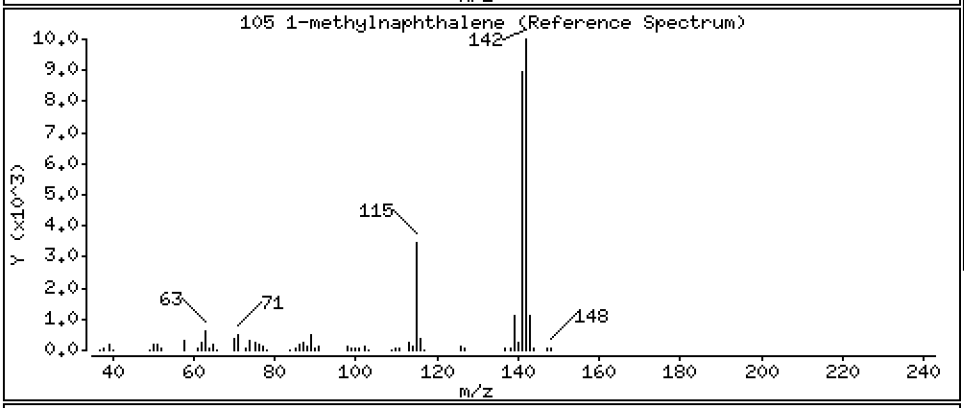
Concentration: 4.875 ug/mL

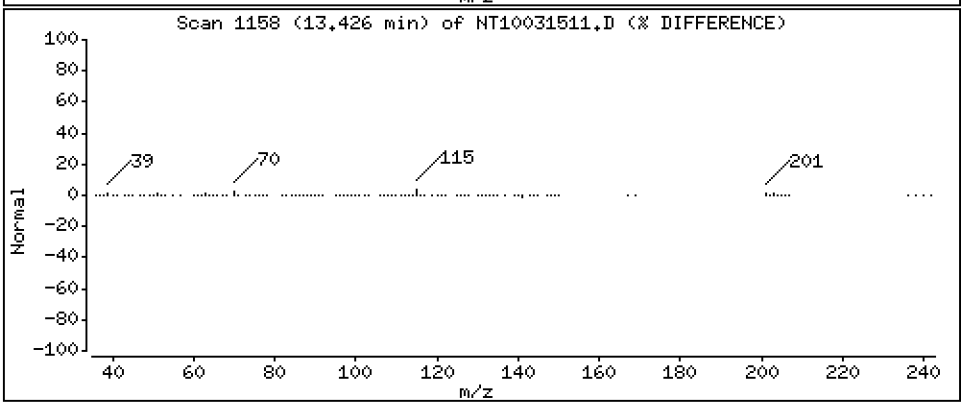












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

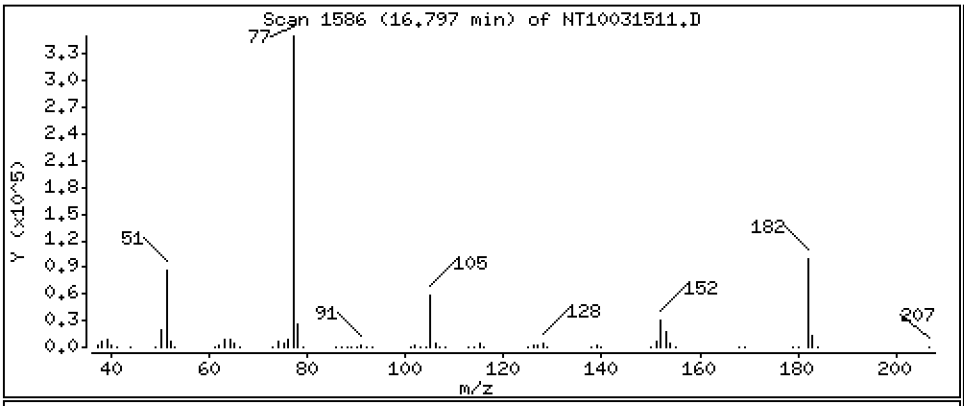
Operator: VTS

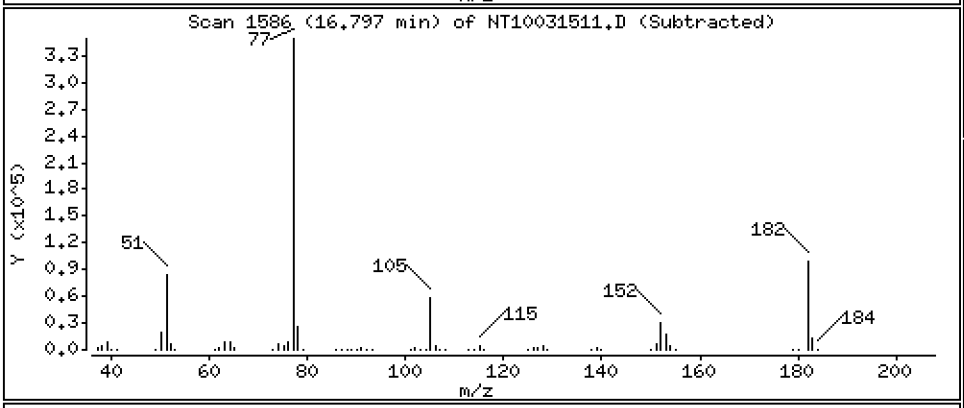
Column phase: ZB-5msi

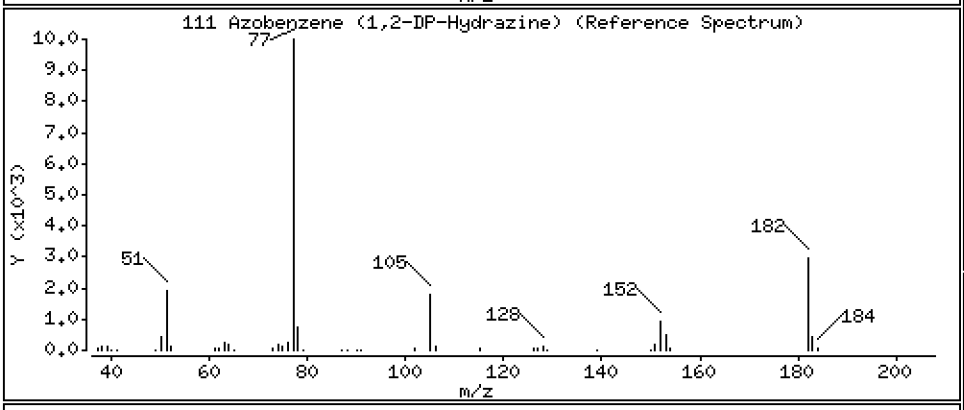
Column diameter: 0.25

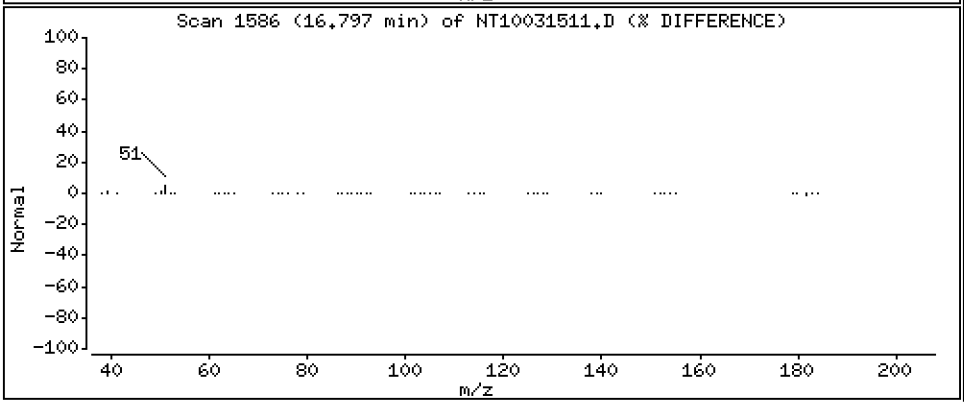
111 Azobenzene (1,2-DP-Hydrazine)

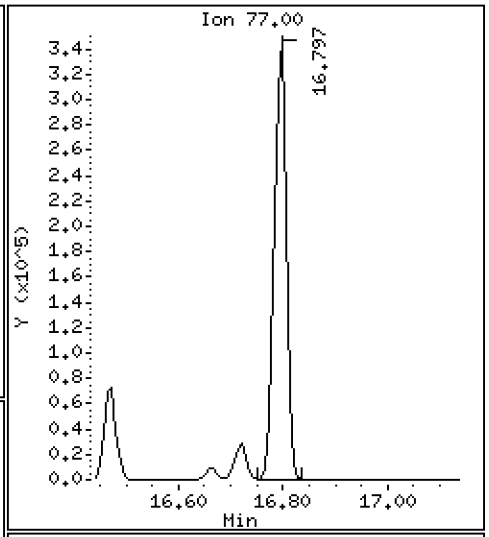
Concentration: 4.937 ug/mL

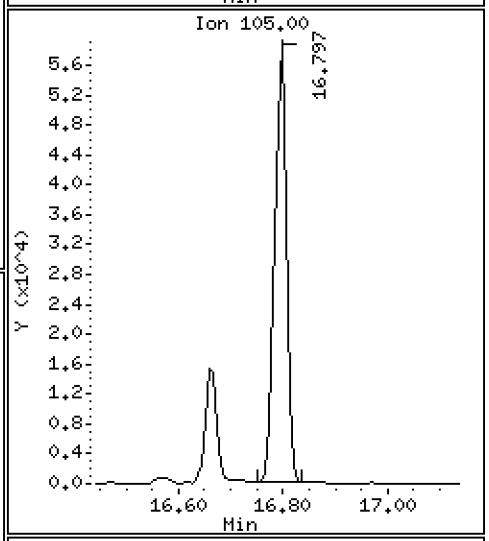


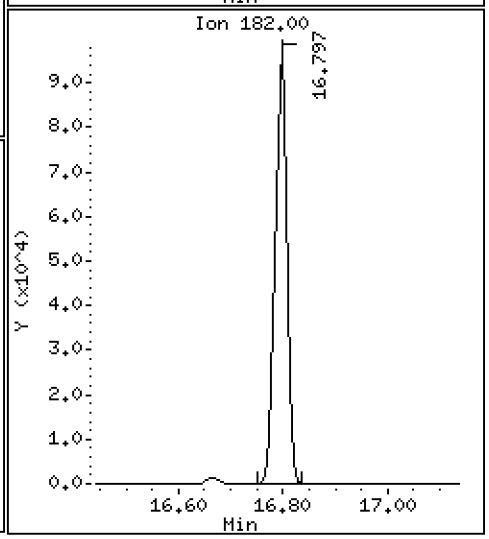












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

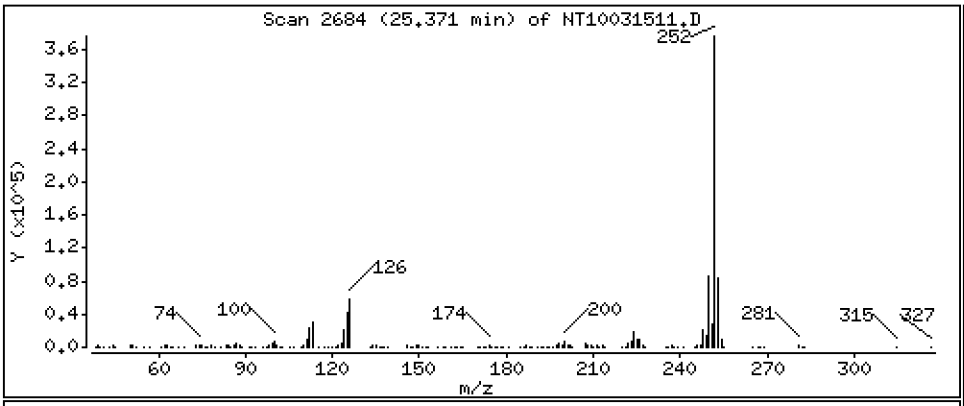
Operator: VTS

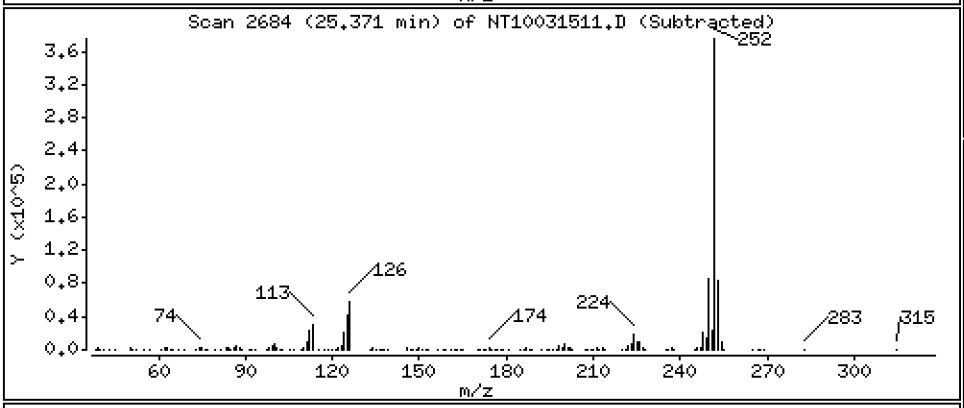
Column phase: ZB-5msi

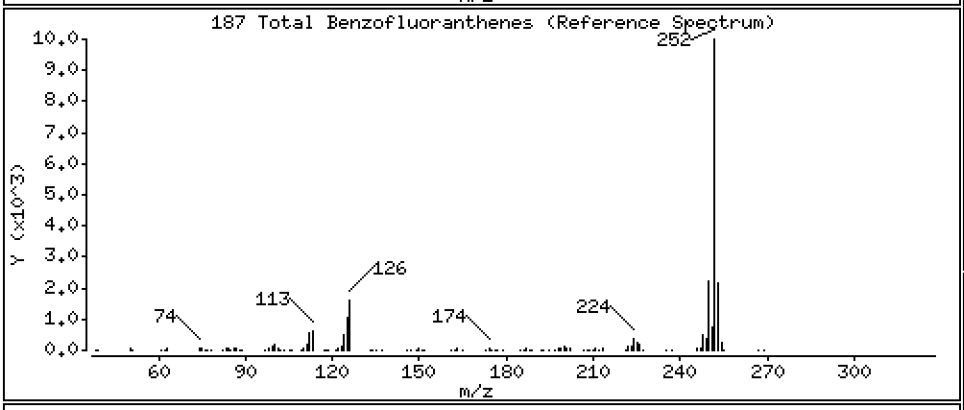
Column diameter: 0.25

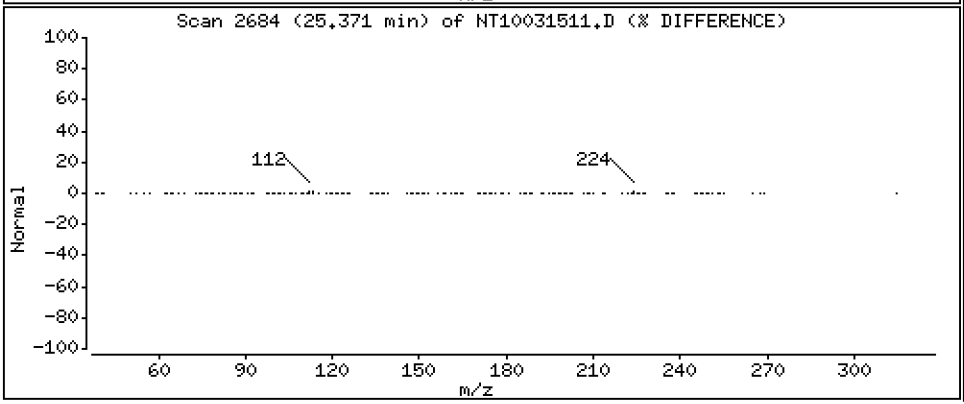
187 Total Benzofluoranthenes

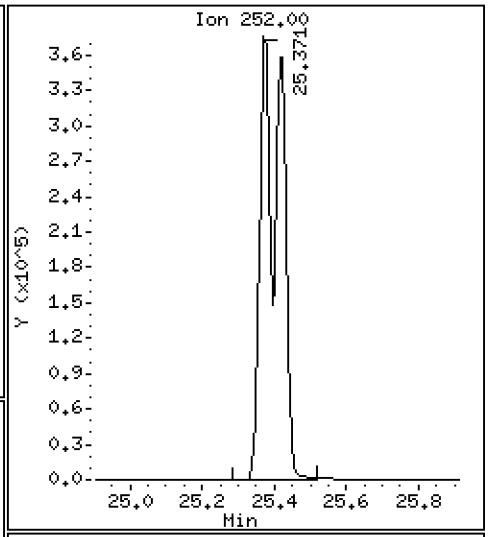
Concentration: 9.483 ug/mL

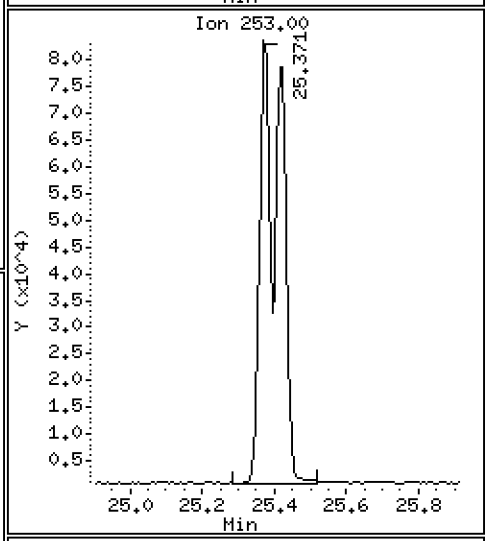


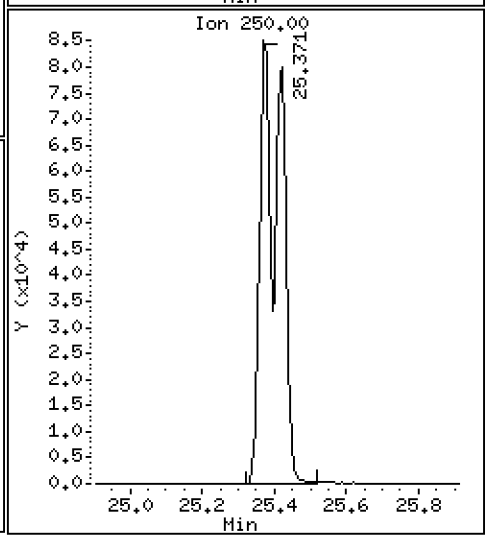












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

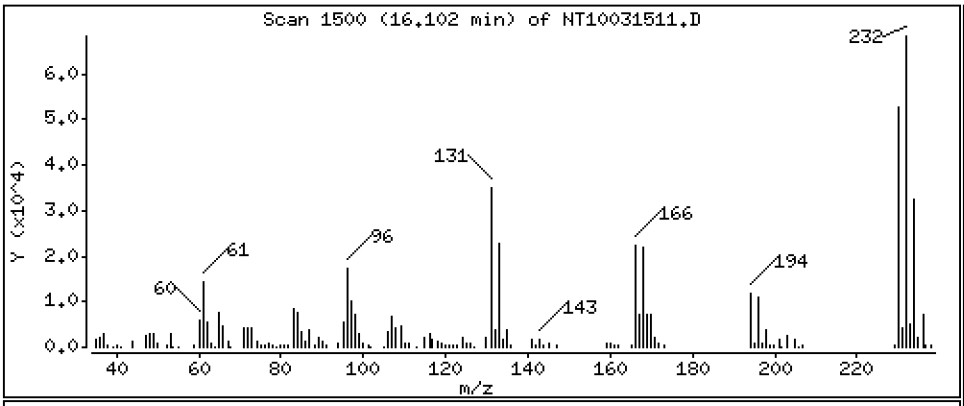
Operator: VTS

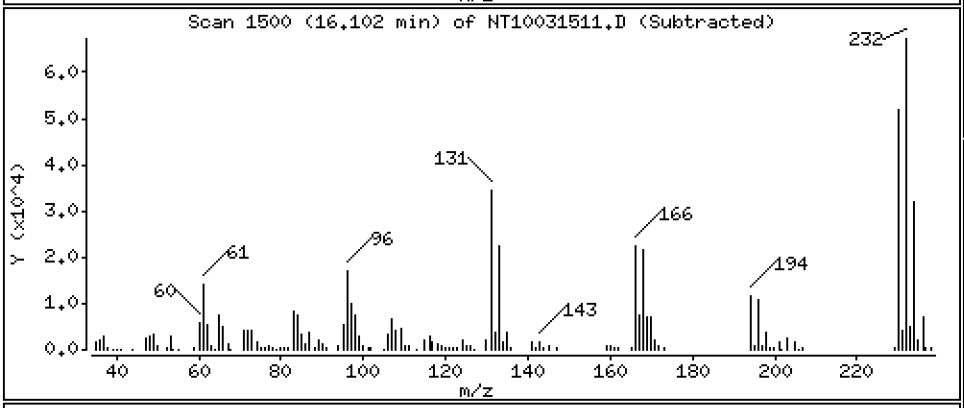
Column phase: ZB-5msi

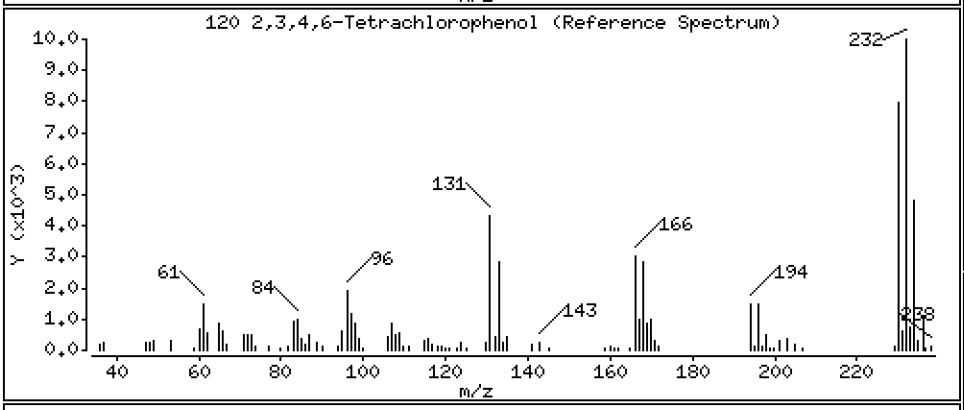
Column diameter: 0.25

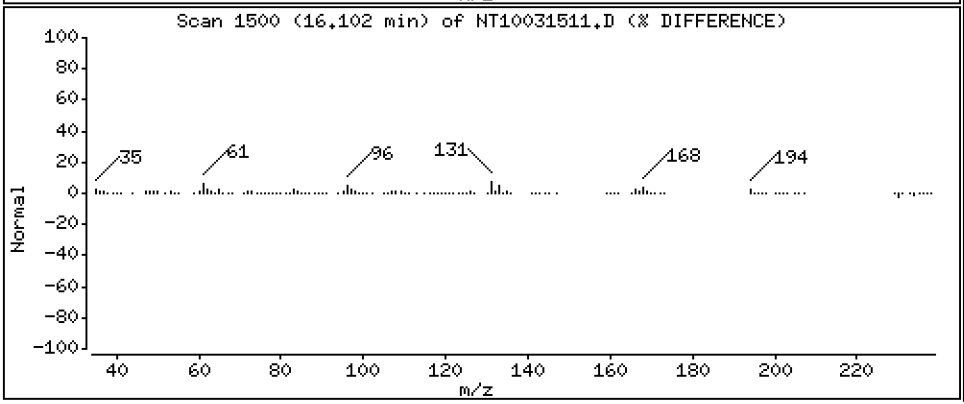
120 2,3,4,6-Tetrachlorophenol

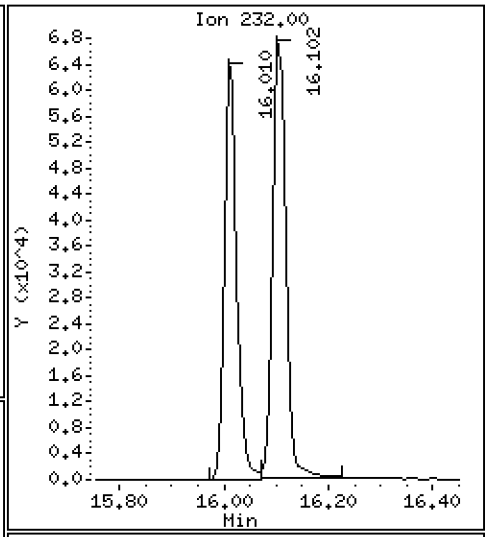
Concentration: 3.980 ug/mL

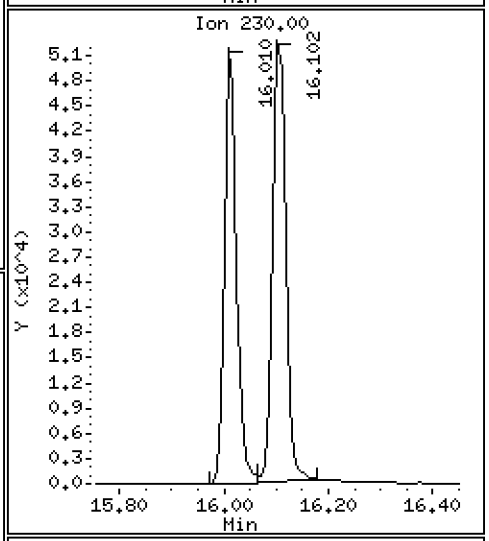


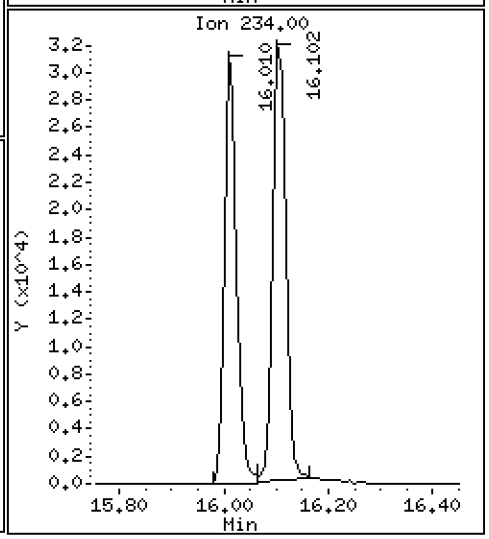












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230315.b\NT10031511.D
Lab Smp Id: SLC0228-SCV1
Inj Date : 16-MAR-2023 02:16
Operator : VTS Inst ID: nt10.i
Smp Info : SLC0228-SCV1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230315.b\ABN.m
Meth Date : 16-Mar-2023 12:06 van Quant Type: ISTD
Cal Date : 16-MAR-2023 00:22 Cal File: NT10031508.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
$ 1	2-Fluorophenol	112	Compound Not Detected.					
$ 2	Phenol-d5	99	Compound Not Detected.					
3	Phenol	94	8.659	8.652	(0.931)	281600	4.41237	4.412
$ 5	2-Chlorophenol-d4	132	Compound Not Detected.					
4	Bis(2-Chloroethyl)ether	93	8.837	8.837	(0.950)	248892	5.25818	5.258
6	2-Chlorophenol	128	8.960	8.961	(0.963)	233608	4.27685	4.277
7	1,3-Dichlorobenzene	146	9.239	9.231	(0.993)	275540	4.77157	4.772
* 8	1,4-Dichlorobenzene-d4	152	9.301	9.293	(1.000)	154809	4.00000	
9	1,4-Dichlorobenzene	146	9.332	9.325	(1.003)	274051	4.91272	4.913
$ 10	1,2-Dichlorobenzene-d4	152	Compound Not Detected.					
12	1,2-Dichlorobenzene	146	9.689	9.682	(1.042)	268028	4.88215	4.882
11	Benzyl alcohol	108	9.557	9.557	(1.028)	147597	4.92722	4.927
14	2,2'-oxybis(1-Chloropropane)	121	9.860	9.860	(1.060)	100179	6.21363	6.214
13	2-Methylphenol	108	9.775	9.767	(1.051)	196115	4.21542	4.215
17	Hexachloroethane	117	10.279	10.271	(1.105)	114513	5.00332	5.003
16	N-Nitroso-di-n-propylamine	70	10.116	10.108	(1.088)	190250	5.17896	5.179
15	4-Methylphenol	108	10.046	10.031	(1.080)	213951	4.36462	4.365
$ 18	Nitrobenzene-d5	82	Compound Not Detected.					
19	Nitrobenzene	77	10.426	10.419	(0.885)	274714	4.85798	4.858
20	Isophorone	82	10.861	10.861	(0.922)	556741	7.69604	7.696
21	2-Nitrophenol	139	11.047	11.048	(0.938)	110302	3.99452	3.995
22	2,4-Dimethylphenol	107	11.081	11.082	(0.941)	188638	3.63181	3.632
23	Bis(2-Chloroethoxy)methane	93	11.285	11.285	(0.958)	273219	5.65409	5.654
24	Benzoic acid	105	11.217	11.166	(0.952)	173961	5.95241	5.952
25	2,4-Dichlorophenol	162	11.489	11.489	(0.975)	195480	4.70301	4.703
26	1,2,4-Trichlorobenzene	180	11.685	11.685	(0.992)	222176	4.55366	4.554
* 27	Naphthalene-d8	136	11.777	11.770	(1.000)	570882	4.00000	
28	Naphthalene	128	11.816	11.816	(1.003)	713318	4.71662	4.717
29	4-Chloroaniline	127	11.940	11.940	(1.014)	223402	3.78650	3.787
30	Hexachlorobutadiene	225	12.171	12.172	(1.033)	138198	4.83404	4.834
31	4-Chloro-3-methylphenol	107	12.876	12.876	(1.093)	208794	4.64027	4.640
32	2-Methylnaphthalene	142	13.201	13.201	(1.121)	501627	4.59617	4.596
33	Hexachlorocyclopentadiene	237	13.665	13.665	(0.888)	132827	4.72902	4.729

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
34	2,4,6-Trichlorophenol	196	13.820	13.820	(0.898)	137849	4.59559	4.596
35	2,4,5-Trichlorophenol	196	13.889	13.890	(0.903)	146935	4.40855	4.409
$ 36	2-Fluorobiphenyl	172	Compound Not Detected.					
37	2-Chloronaphthalene	162	14.199	14.191	(0.923)	466196	4.79589	4.796
38	2-Nitroaniline	65	14.454	14.447	(0.940)	134108	4.91137	4.911
39	Dimethylphthalate	163	14.880	14.873	(0.967)	486790	4.93747	4.937
40	Acenaphthylene	152	15.074	15.066	(0.980)	727839	4.80509	4.805
41	2,6-Dinitrotoluene	165	15.020	15.012	(0.976)	112840	5.29815	5.298
* 42	Acenaphthene-d10	164	15.383	15.383	(1.000)	303490	4.00000	
43	3-Nitroaniline	138	15.306	15.298	(0.995)	120530	5.01393	5.014
44	Acenaphthene	153	15.453	15.445	(1.005)	446914	4.77589	4.776
45	2,4-Dinitrophenol	184	15.515	15.515	(1.009)	27409	2.12395	2.124
46	Dibenzofuran	168	15.777	15.770	(1.026)	641379	4.64790	4.648
47	4-Nitrophenol	109	15.600	15.592	(1.014)	59816	3.96568	3.966
48	2,4-Dinitrotoluene	165	15.824	15.817	(1.029)	144262	4.51019	4.510
50	Diethylphthalate	149	16.326	16.319	(1.061)	503887	5.20905	5.209
49	Fluorene	166	16.489	16.481	(1.072)	511113	4.70796	4.708
51	4-Chlorophenyl-phenylether	204	16.473	16.466	(1.071)	257762	4.99294	4.993
52	4-Nitroaniline	138	16.566	16.566	(1.077)	106701	4.92532	4.925
53	4,6-Dinitro-2-methylphenol	198	16.666	16.658	(0.905)	56867	3.51509	3.515
54	N-Nitrosodiphenylamine	169	16.720	16.712	(0.908)	342454	4.80180	4.802
$ 55	2,4,6-Tribromophenol	330	Compound Not Detected.					
56	4-Bromophenyl-phenylether	248	17.475	17.476	(0.949)	150956	5.05964	5.060
57	Hexachlorobenzene	284	17.800	17.793	(0.966)	143751	4.59553	4.596
58	Pentachlorophenol	266	18.149	18.149	(0.985)	75635	4.05676	4.057
* 59	Phenanthrene-d10	188	18.420	18.420	(1.000)	533431	4.00000	
60	Phenanthrene	178	18.466	18.466	(1.003)	669357	4.60181	4.602
61	Anthracene	178	18.559	18.559	(1.008)	581438	4.16715	4.167
62	Carbazole	167	18.884	18.884	(1.025)	591382	4.72989	4.730
63	Di-n-butylphthalate	149	19.665	19.666	(1.068)	830680	4.96738	4.967
64	Fluoranthene	202	20.841	20.841	(0.888)	782432	4.47248	4.472
65	Pyrene	202	21.267	21.267	(0.907)	778668	4.33892	4.339
$ 66	Terphenyl-d14	244	Compound Not Detected.					
67	Butylbenzylphthalate	149	22.459	22.460	(0.957)	314007	4.83397	4.834
68	Benzo(a)anthracene	228	23.427	23.419	(0.999)	714166	4.64722	4.647
* 69	Chrysene-d12	240	23.458	23.450	(1.000)	435381	4.00000	
70	3,3'-Dichlorobenzidine	252	23.373	23.373	(0.996)	483256	9.81738	9.817
71	Chrysene	228	23.497	23.489	(1.002)	677151	4.51017	4.510
72	bis(2-Ethylhexyl)phthalate	149	23.481	23.474	(0.959)	453669	4.67998	4.680
* 134	Di-n-octylphthalate-d4	153	24.487	24.480	(1.000)	660827	4.00000	
73	Di-n-octylphthalate	149	24.495	24.488	(1.000)	855562	4.94734	4.947
74	Benzo(b)fluoranthene	252	25.370	25.362	(0.969)	737887	4.60200	4.602(H)
75	Benzo(k)fluoranthene	252	25.416	25.409	(0.970)	797521	4.89839	4.898
76	Benzo(a)pyrene	252	26.067	26.052	(0.995)	698616	4.87338	4.873
* 77	Perylene-d12	264	26.191	26.183	(1.000)	494648	4.00000	
78	Indeno(1,2,3-cd)pyrene	276	29.005	28.990	(1.107)	834672	4.57655	4.577
79	Dibenzo(a,h)anthracene	278	29.021	29.005	(1.108)	688433	4.54663	4.547
80	Benzo(g,h,i)perylene	276	29.852	29.821	(1.140)	724463	4.59000	4.590
90	N-Nitrosodimethylamine	74	4.928	4.936	(0.530)	155126	5.19378	5.194
91	Aniline	93	Compound Not Detected.					
93	Benzidine	184	21.073	21.066	(0.898)	314737	4.37985	4.380
103	Pyridine	79	4.959	4.997	(0.533)	244801	5.33678	5.337
105	1-methylnaphthalene	142	13.425	13.425	(1.140)	487498	4.87520	4.875
111	Azobenzene (1,2-DP-Hydrazine)	77	16.797	16.789	(1.092)	533524	4.93744	4.937

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.370	25.409	(0.969)	1468165	9.48349	9.483
120 2,3,4,6-Tetrachlorophenol	232	16.102	16.103	(1.047)	124685	3.97959	3.980

QC Flag Legend

H - Operator selected an alternate compound hit.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT10031511.D
Lab Smp Id: SLC0228-SCV1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230315.b\ABN.m
Misc Info:

Calibration Date: 15-MAR-2023
Calibration Time: 21:50
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	171542	85771	343084	154809	-9.75
27 Naphthalene-d8	624466	312233	1248932	570882	-8.58
42 Acenaphthene-d10	337226	168613	674452	303490	-10.00
59 Phenanthrene-d10	572849	286425	1145698	533431	-6.88
69 Chrysene-d12	347068	173534	694136	435381	25.45
134 Di-n-octylphthala	500317	250159	1000634	660827	32.08
77 Perylene-d12	421549	210775	843098	494648	17.34

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.30	8.80	9.80	9.30	-0.00
27 Naphthalene-d8	11.78	11.28	12.28	11.78	0.01
42 Acenaphthene-d10	15.38	14.88	15.88	15.38	0.00
59 Phenanthrene-d10	18.42	17.92	18.92	18.42	0.00
69 Chrysene-d12	23.45	22.95	23.95	23.46	0.04
134 Di-n-octylphthala	24.48	23.98	24.98	24.49	0.03
77 Perylene-d12	26.18	25.68	26.68	26.19	0.03

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

REVIEW SUMMARY FOR FILE - NT10031511.D

Lab ID: SLC0228-SCV1
nt10.i, 20230315.b\ABN.m,   16-MAR-2023 02:16

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

** FIRST SURROGATE NOT FOUND. ICAL Check not performed **

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.952	0.000	0.9524	Benzoic acid

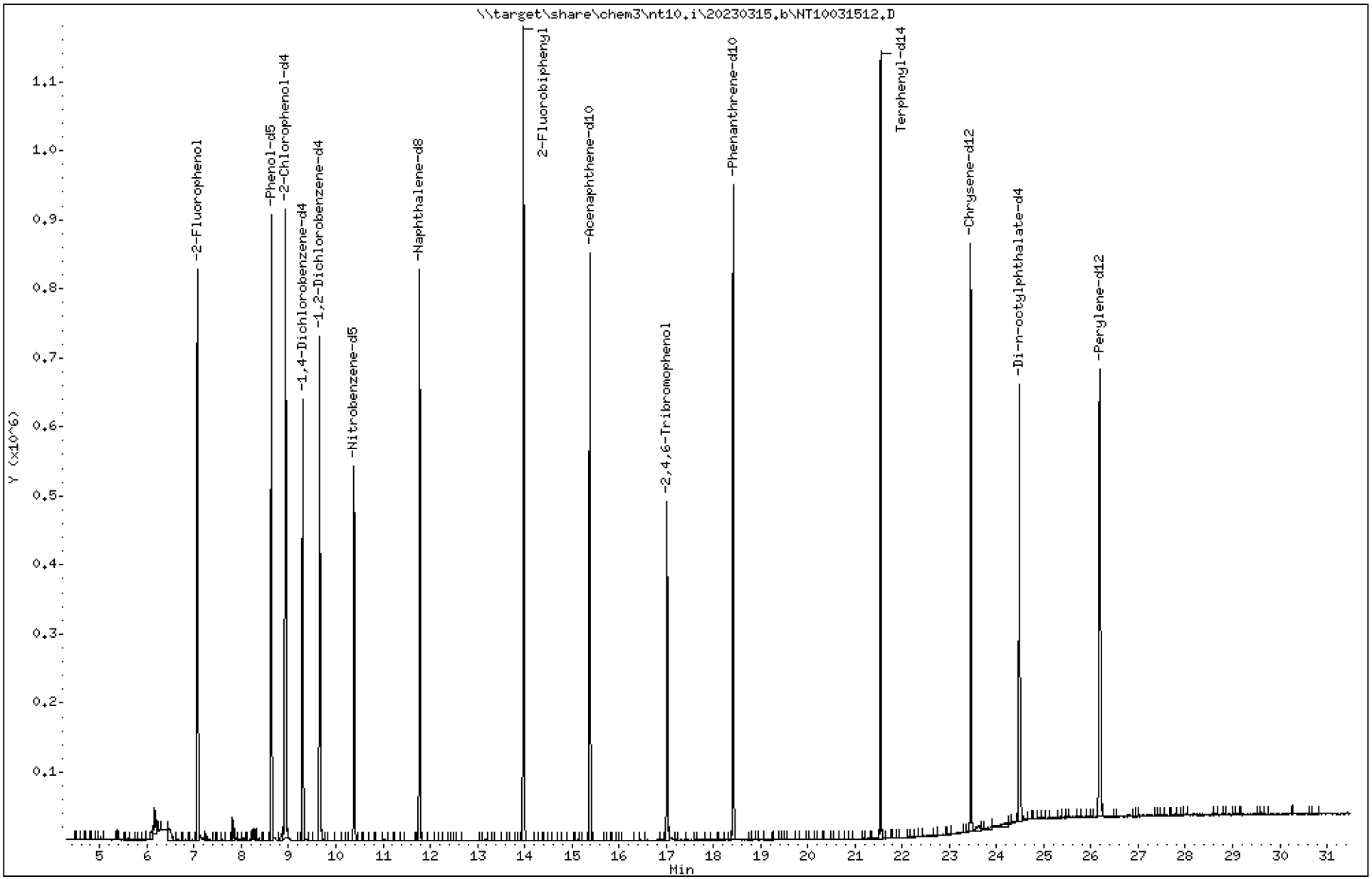
RRT check based on Ccal File: NT10031508.D

On Column LOD for nt10.i, 20230315.b\ABN.m, ICAL.sub = 0.0000

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

Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031512.D
Date : 16-MAR-2023 02:54
Client ID:
Sample Info: SLC0228-ICB1

Instrument: nt10.i
Operator: VTS
Column phase: ZB-5msi
Column diameter: 0.25



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230315.b\NT10031512.D
Lab Smp Id: SLC0228-ICB1
Inj Date : 16-MAR-2023 02:54
Operator : VTS Inst ID: nt10.i
Smp Info : SLC0228-ICB1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230315.b\ABN.m
Meth Date : 16-Mar-2023 12:06 van Quant Type: ISTD
Cal Date : 16-MAR-2023 00:22 Cal File: NT10031508.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
$ 1	2-Fluorophenol	112	7.067	7.068	(0.760)	362536	6.92497	6.925
$ 2	Phenol-d5	99	8.636	8.636	(0.928)	477145	6.94756	6.948
3	Phenol	94	Compound Not Detected.					
$ 5	2-Chlorophenol-d4	132	8.929	8.930	(0.960)	416453	7.10111	7.101
4	Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
6	2-Chlorophenol	128	Compound Not Detected.					
7	1,3-Dichlorobenzene	146	Compound Not Detected.					
* 8	1,4-Dichlorobenzene-d4	152	9.301	9.293	(1.000)	173115	4.00000	
9	1,4-Dichlorobenzene	146	Compound Not Detected.					
$ 10	1,2-Dichlorobenzene-d4	152	9.658	9.658	(1.038)	194128	4.60926	4.609
12	1,2-Dichlorobenzene	146	Compound Not Detected.					
11	Benzyl alcohol	108	Compound Not Detected.					
14	2,2'-oxybis(1-Chloropropane)	121	Compound Not Detected.					
13	2-Methylphenol	108	Compound Not Detected.					
17	Hexachloroethane	117	Compound Not Detected.					
16	N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
15	4-Methylphenol	108	Compound Not Detected.					
$ 18	Nitrobenzene-d5	82	10.387	10.388	(0.882)	294159	4.65645	4.656
19	Nitrobenzene	77	Compound Not Detected.					
20	Isophorone	82	Compound Not Detected.					
21	2-Nitrophenol	139	Compound Not Detected.					
22	2,4-Dimethylphenol	107	Compound Not Detected.					
23	Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
24	Benzoic acid	105	Compound Not Detected.					
25	2,4-Dichlorophenol	162	Compound Not Detected.					
26	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
* 27	Naphthalene-d8	136	11.776	11.770	(1.000)	625865	4.00000	
28	Naphthalene	128	Compound Not Detected.					
29	4-Chloroaniline	127	Compound Not Detected.					
30	Hexachlorobutadiene	225	Compound Not Detected.					
31	4-Chloro-3-methylphenol	107	Compound Not Detected.					
32	2-Methylnaphthalene	142	Compound Not Detected.					
33	Hexachlorocyclopentadiene	237	Compound Not Detected.					

			QUANT SIG					CONCENTRATIONS ON-COLUMN	CONCENTRATIONS FINAL
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug/mL)
	34	2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35	2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36	2-Fluorobiphenyl	172	13.981	13.975	(0.909)	615156	4.73090	4.731
	37	2-Chloronaphthalene	162	Compound Not Detected.					
	38	2-Nitroaniline	65	Compound Not Detected.					
	39	Dimethylphthalate	163	Compound Not Detected.					
	40	Acenaphthylene	152	Compound Not Detected.					
	41	2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42	Acenaphthene-d10	164	15.382	15.383	(1.000)	328712	4.00000	
	43	3-Nitroaniline	138	Compound Not Detected.					
	44	Acenaphthene	153	Compound Not Detected.					
	45	2,4-Dinitrophenol	184	Compound Not Detected.					
	46	Dibenzofuran	168	Compound Not Detected.					
	47	4-Nitrophenol	109	Compound Not Detected.					
	48	2,4-Dinitrotoluene	165	Compound Not Detected.					
	50	Diethylphthalate	149	Compound Not Detected.					
	49	Fluorene	166	Compound Not Detected.					
	51	4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52	4-Nitroaniline	138	Compound Not Detected.					
	53	4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54	N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55	2,4,6-Tribromophenol	330	17.020	17.021	(1.106)	85879	5.59351	5.594
	56	4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57	Hexachlorobenzene	284	Compound Not Detected.					
	58	Pentachlorophenol	266	Compound Not Detected.					
*	59	Phenanthrene-d10	188	18.419	18.420	(1.000)	592693	4.00000	
	60	Phenanthrene	178	Compound Not Detected.					
	61	Anthracene	178	Compound Not Detected.					
	62	Carbazole	167	Compound Not Detected.					
	63	Di-n-butylphthalate	149	Compound Not Detected.					
	64	Fluoranthene	202	Compound Not Detected.					
	65	Pyrene	202	Compound Not Detected.					
$	66	Terphenyl-d14	244	21.544	21.538	(0.919)	627405	4.58345	4.583
	67	Butylbenzylphthalate	149	Compound Not Detected.					
	68	Benzo(a)anthracene	228	Compound Not Detected.					
*	69	Chrysene-d12	240	23.449	23.450	(1.000)	442208	4.00000	
	70	3,3'-Dichlorobenzidine	252	Compound Not Detected.					
	71	Chrysene	228	Compound Not Detected.					
	72	bis(2-Ethylhexyl)phthalate	149	Compound Not Detected.					
*	134	Di-n-octylphthalate-d4	153	24.479	24.480	(1.000)	526309	4.00000	
	73	Di-n-octylphthalate	149	Compound Not Detected.					
	74	Benzo(b)fluoranthene	252	Compound Not Detected.					
	75	Benzo(k)fluoranthene	252	Compound Not Detected.					
	76	Benzo(a)pyrene	252	Compound Not Detected.					
*	77	Perylene-d12	264	26.182	26.183	(1.000)	499804	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
	79	Dibenzo(a,h)anthracene	278	Compound Not Detected.					
	80	Benzo(g,h,i)perylene	276	Compound Not Detected.					
	90	N-Nitrosodimethylamine	74	Compound Not Detected.					
	91	Aniline	93	Compound Not Detected.					
	93	Benzidine	184	Compound Not Detected.					
	103	Pyridine	79	Compound Not Detected.					
	105	1-methylnaphthalene	142	Compound Not Detected.					
	111	Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

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

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT10031512.D
Lab Smp Id: SLC0228-ICB1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230315.b\ABN.m
Misc Info:

Calibration Date: 15-MAR-2023
Calibration Time: 21:50
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	171542	85771	343084	173115	0.92
27 Naphthalene-d8	624466	312233	1248932	625865	0.22
42 Acenaphthene-d10	337226	168613	674452	328712	-2.52
59 Phenanthrene-d10	572849	286425	1145698	592693	3.46
69 Chrysene-d12	347068	173534	694136	442208	27.41
134 Di-n-octylphthala	500317	250159	1000634	526309	5.20
77 Perylene-d12	421549	210775	843098	499804	18.56

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.30	8.80	9.80	9.30	-0.00
27 Naphthalene-d8	11.78	11.28	12.28	11.78	-0.00
42 Acenaphthene-d10	15.38	14.88	15.88	15.38	-0.00
59 Phenanthrene-d10	18.42	17.92	18.92	18.42	-0.00
69 Chrysene-d12	23.45	22.95	23.95	23.45	-0.00
134 Di-n-octylphthala	24.48	23.98	24.98	24.48	-0.00
77 Perylene-d12	26.18	25.68	26.68	26.18	-0.00

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

REVIEW SUMMARY FOR FILE - NT10031512.D

Lab ID: SLC0228-ICB1
nt10.i, 20230315.b\ABN.m,   16-MAR-2023 02:54

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

RRT check based on Ccal File: NT10031508.D

On Column LOD for nt10.i, 20230315.b\ABN.m, ICAL.sub = 0.0000

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

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8270E

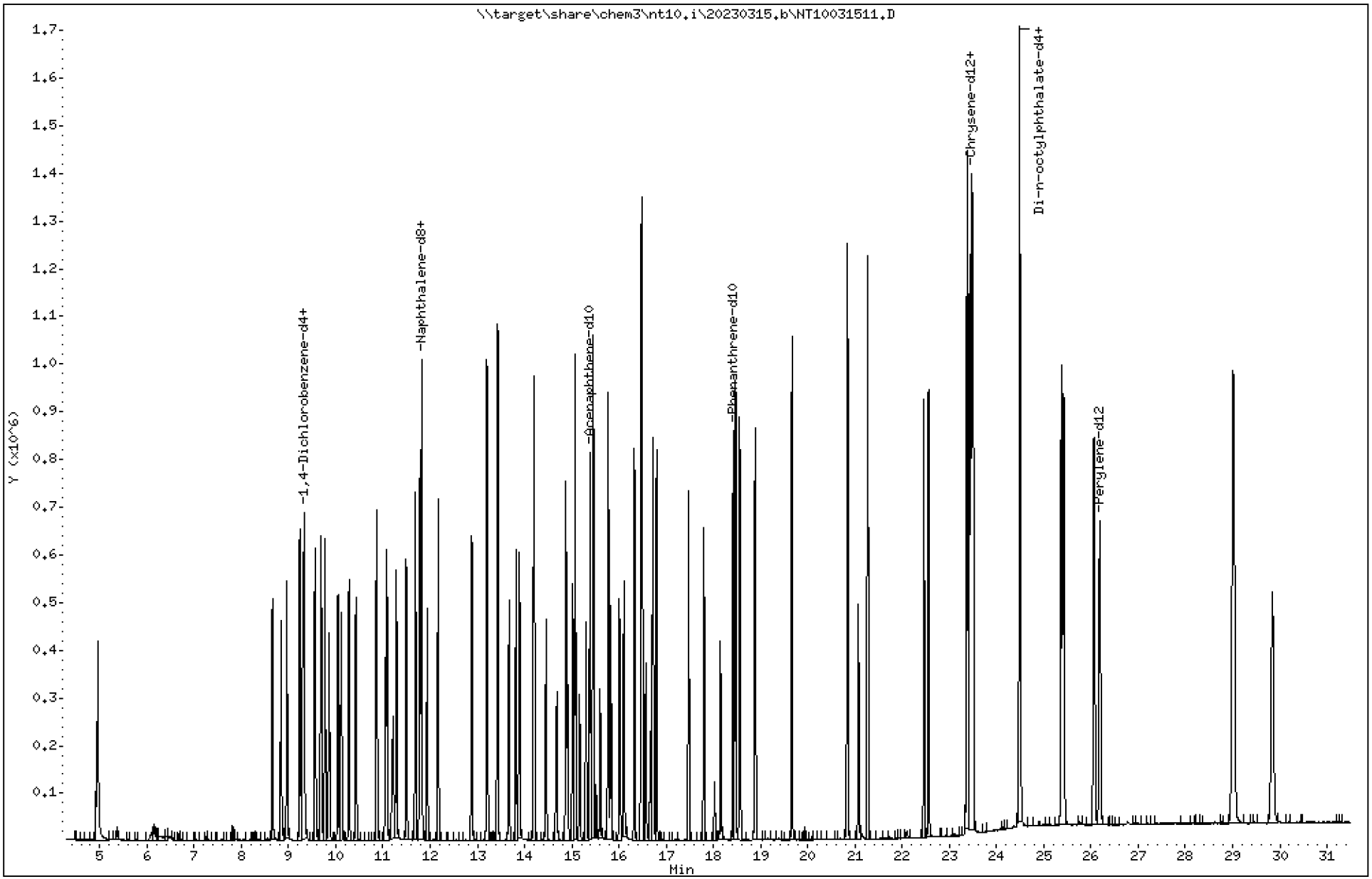
Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GC00046
Laboratory ID: SLC0228-SCV1
Sequence: SLC0228
Sequence Name: SCV 5.0
Standard ID: L002833

ANALYTE	EXPECTED (ug/mL)	FOUND (ug/mL)	% DRIFT	QC LIMIT
Phenol	5.0000	4.4	-11.8	20.00
4-Methylphenol	5.0000	4.4	-12.7	20.00
Naphthalene	5.0000	4.7	-5.7	20.00
2-Methylnaphthalene	5.0000	4.6	-8.1	20.00
Acenaphthylene	5.0000	4.8	-3.9	20.00
Dimethylphthalate	5.0000	4.9	-1.3	20.00
Acenaphthene	5.0000	4.8	-4.5	20.00
Dibenzofuran	5.0000	4.6	-7.0	20.00
Fluorene	5.0000	4.7	-5.8	20.00
Phenanthrene	5.0000	4.6	-8.0	20.00
Anthracene	5.0000	4.2	-16.7	20.00
Fluoranthene	5.0000	4.5	-10.6	20.00
Pyrene	5.0000	4.3	-13.2	20.00
Butylbenzylphthalate	5.0000	4.8	-3.3	20.00
Benzo(a)anthracene	5.0000	4.6	-7.1	20.00
Chrysene	5.0000	4.5	-9.8	20.00
bis(2-Ethylhexyl)phthalate	5.0000	4.7	-6.4	20.00
Benzofluoranthenes, Total	10.000	9.5	-5.2	20.00
Benzo(a)pyrene	5.0000	4.9	-2.5	20.00
Indeno(1,2,3-cd)pyrene	5.0000	4.6	-8.5	20.00
Dibenzo(a,h)anthracene	5.0000	4.5	-9.1	20.00
Benzo(g,h,i)perylene	5.0000	4.6	-8.2	20.00

* Indicates values outside of QC limits

Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D
Date : 16-MAR-2023 02:16
Client ID:
Sample Info: SLC0228-SCV1

Instrument: nt10.i
Operator: VTS
Column phase: ZB-5msi
Column diameter: 0.25



Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

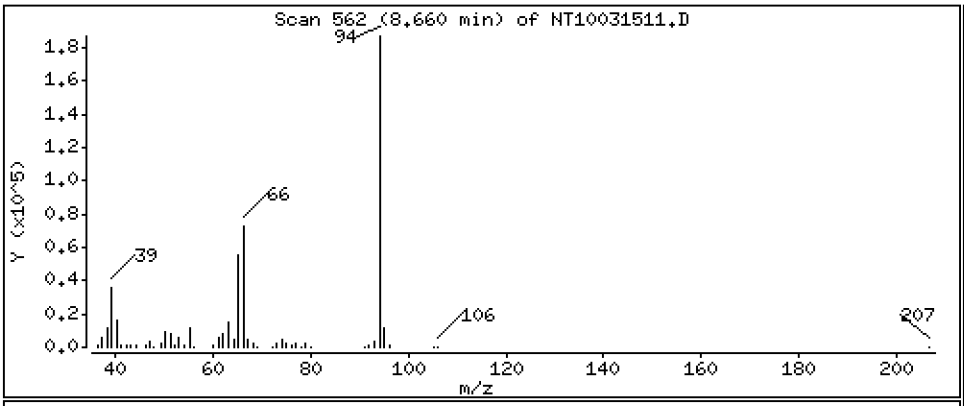
Operator: VTS

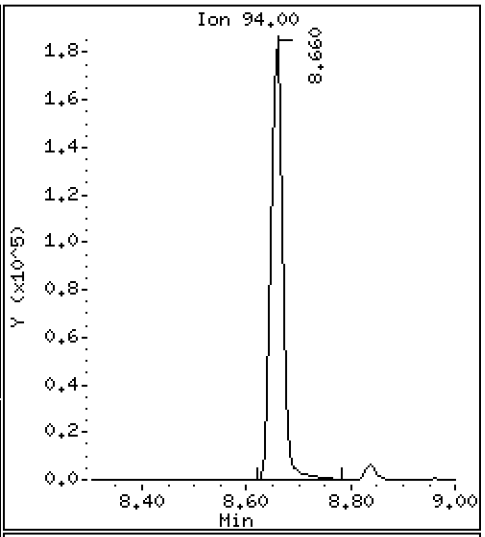
Column phase: ZB-5msi

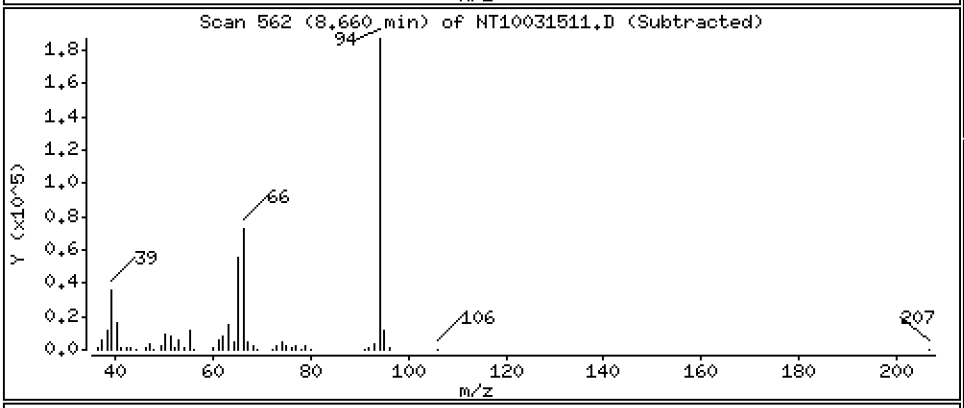
Column diameter: 0.25

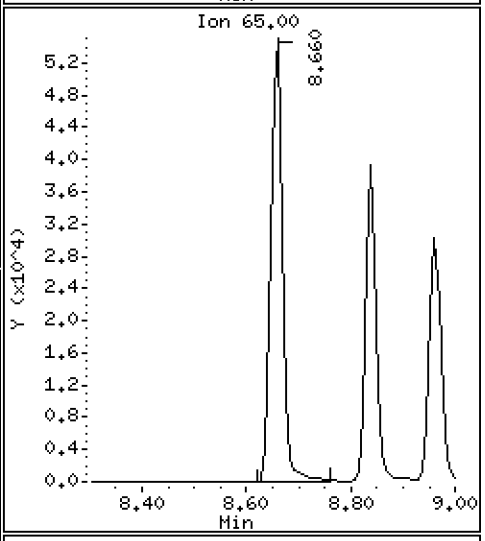
3 Phenol

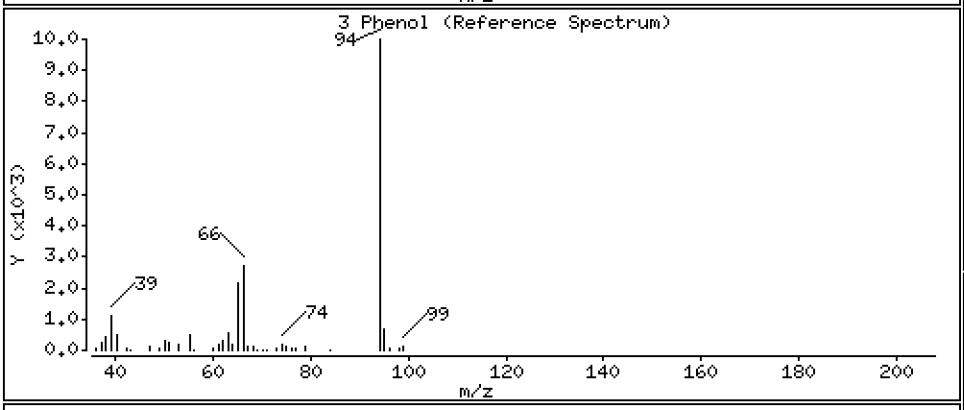
Concentration: 4.412 ug/mL

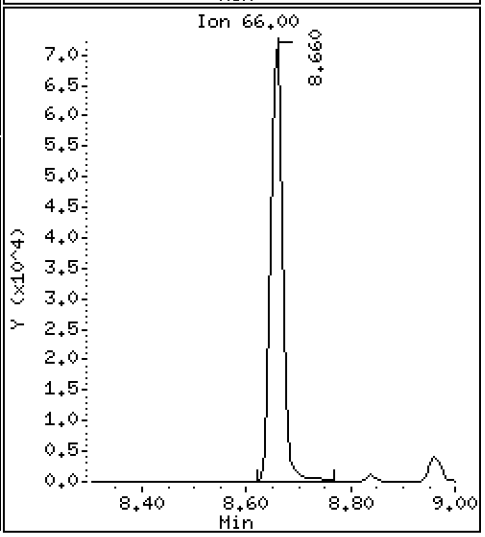


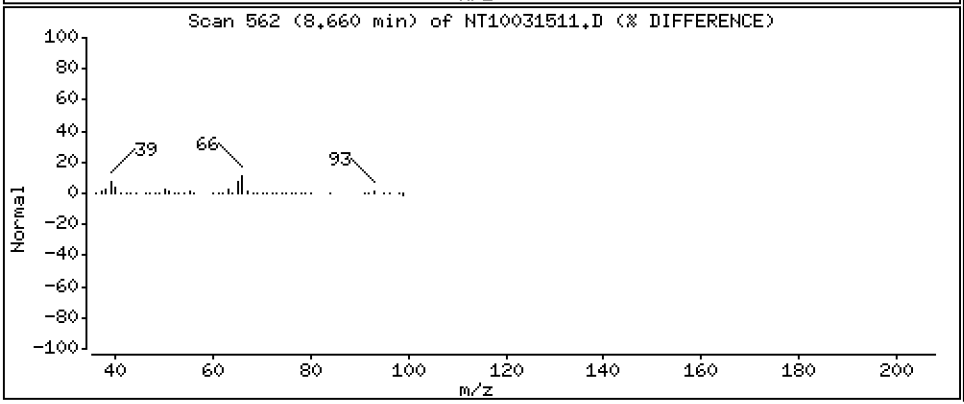












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

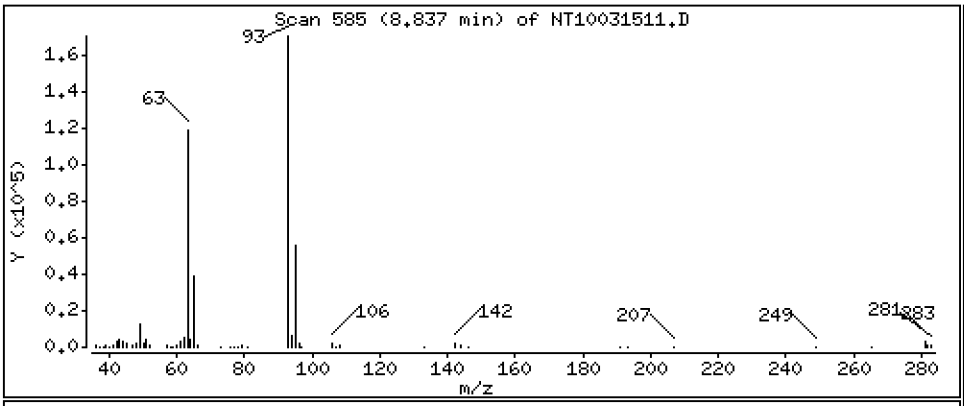
Operator: VTS

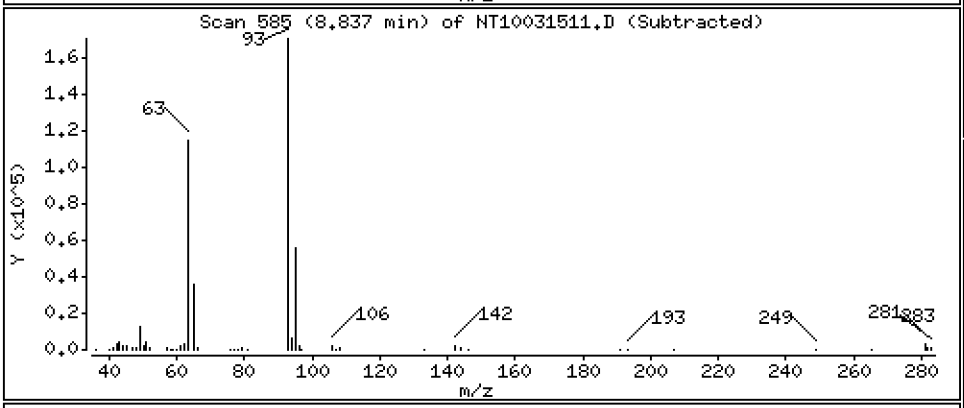
Column phase: ZB-5msi

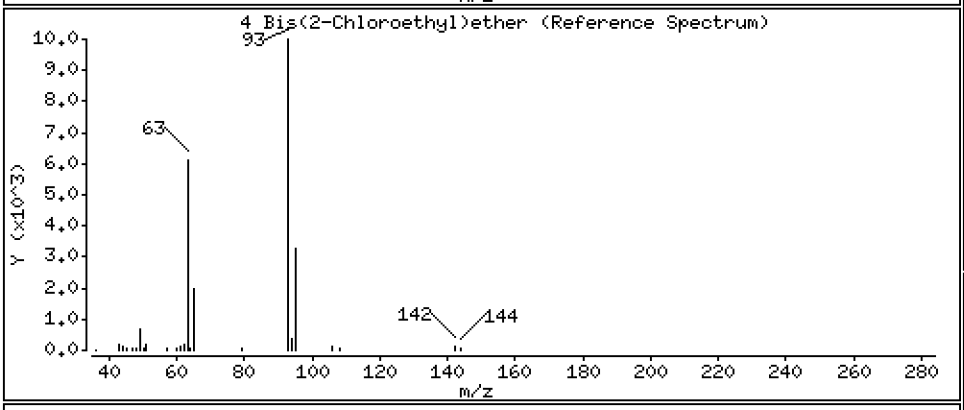
Column diameter: 0.25

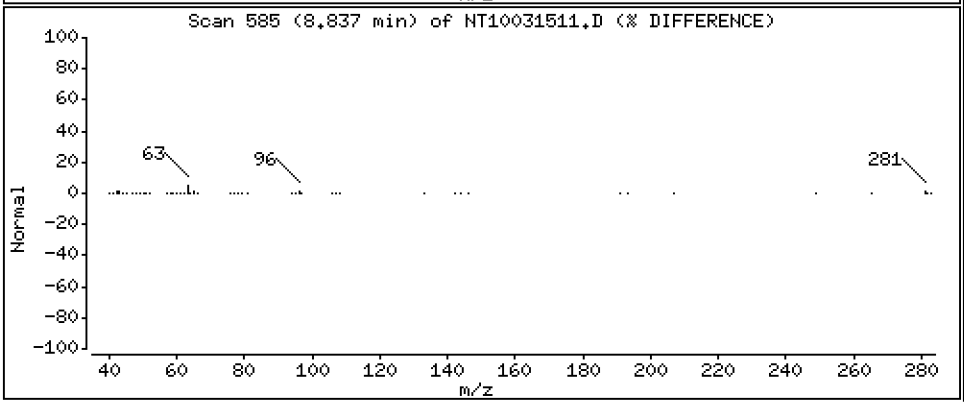
4 Bis(2-Chloroethyl)ether

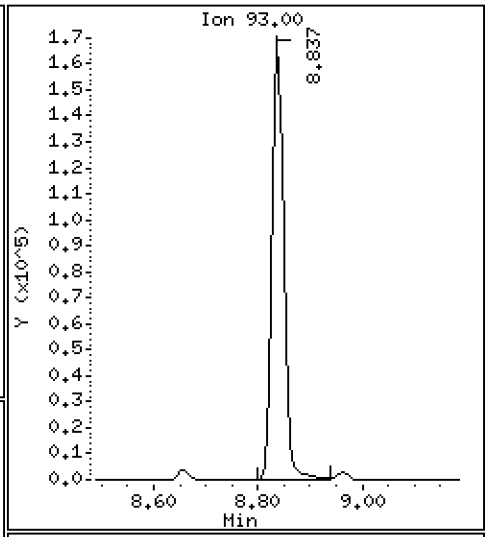
Concentration: 5.258 ug/mL

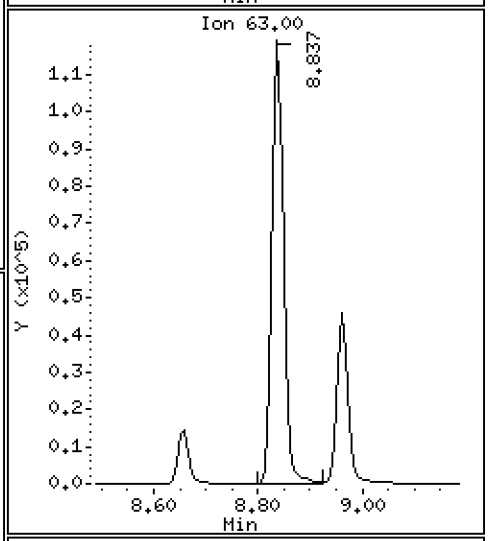


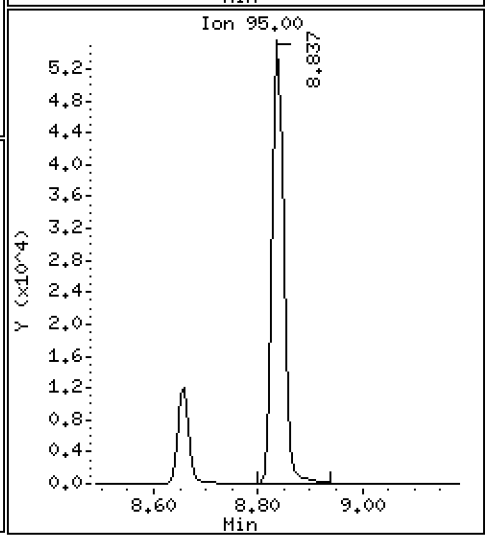












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

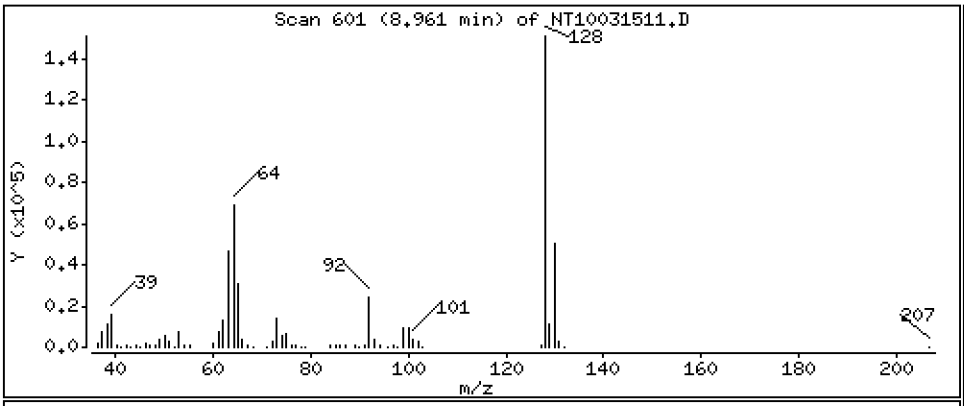
Operator: VTS

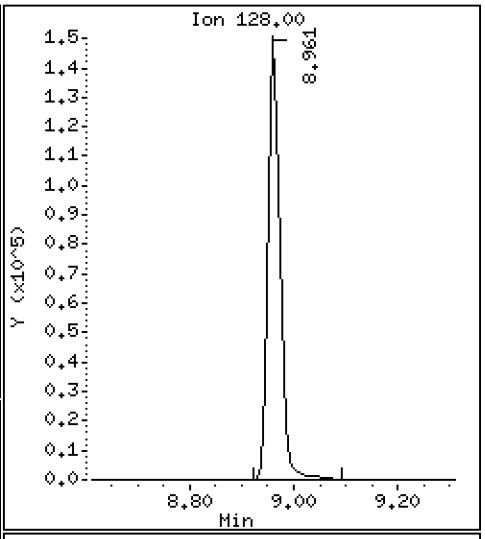
Column phase: ZB-5msi

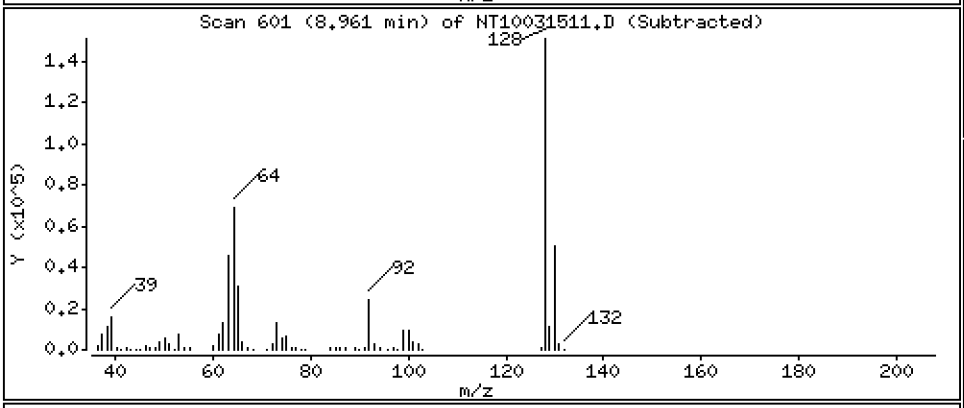
Column diameter: 0.25

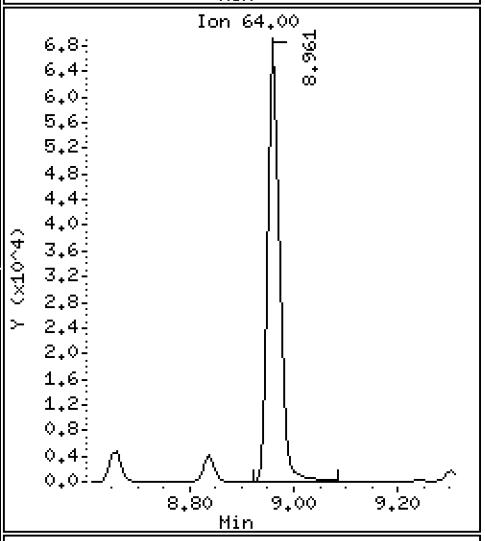
6 2-Chlorophenol

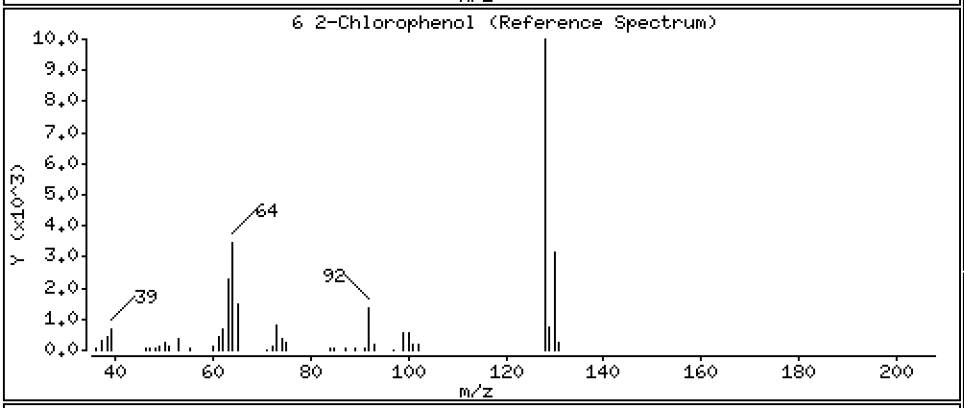
Concentration: 4.277 ug/mL

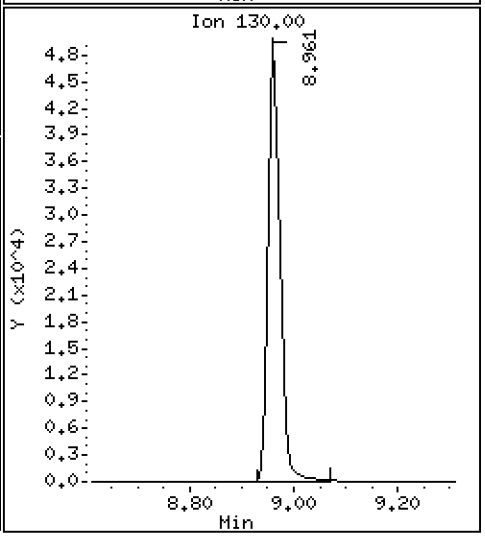


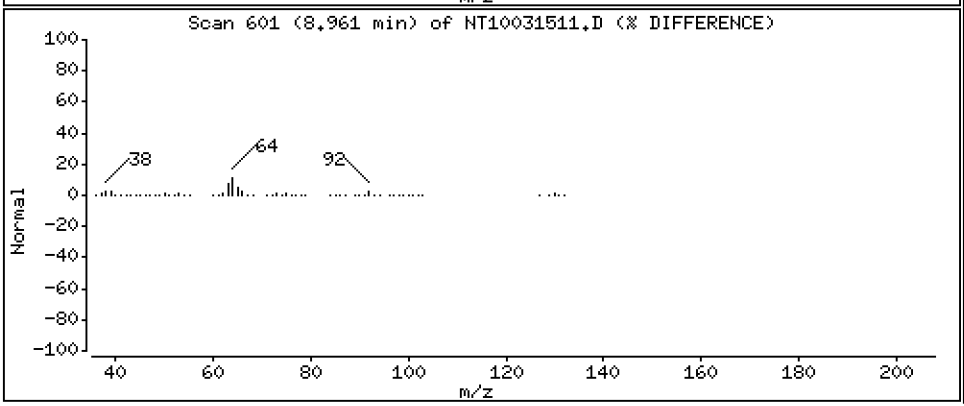












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

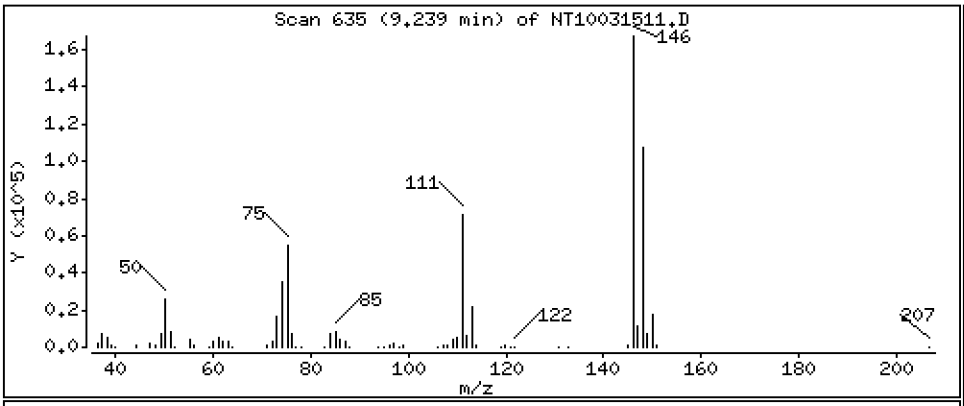
Operator: VTS

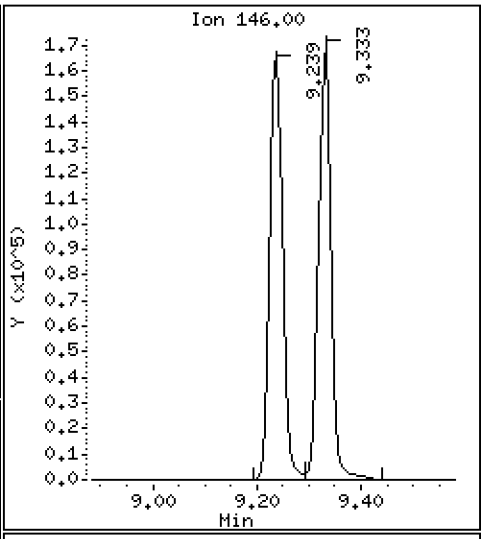
Column phase: ZB-5msi

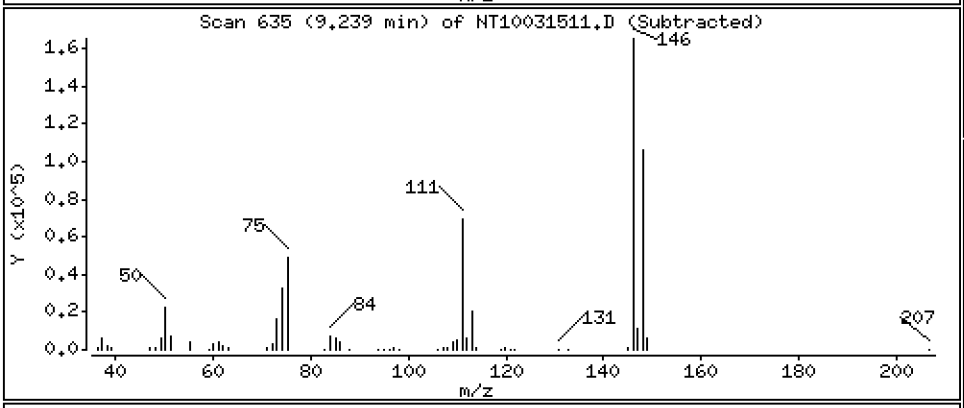
Column diameter: 0.25

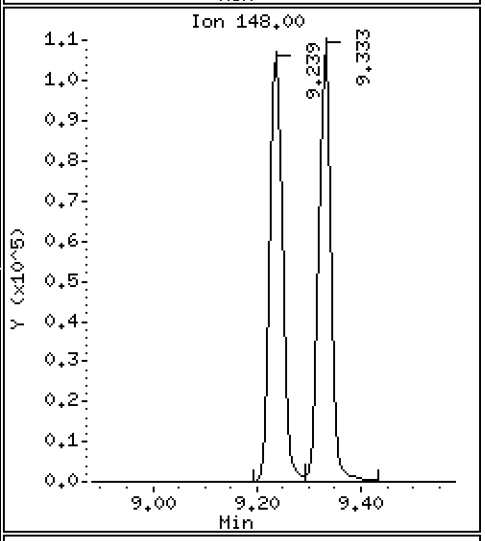
7 1,3-Dichlorobenzene

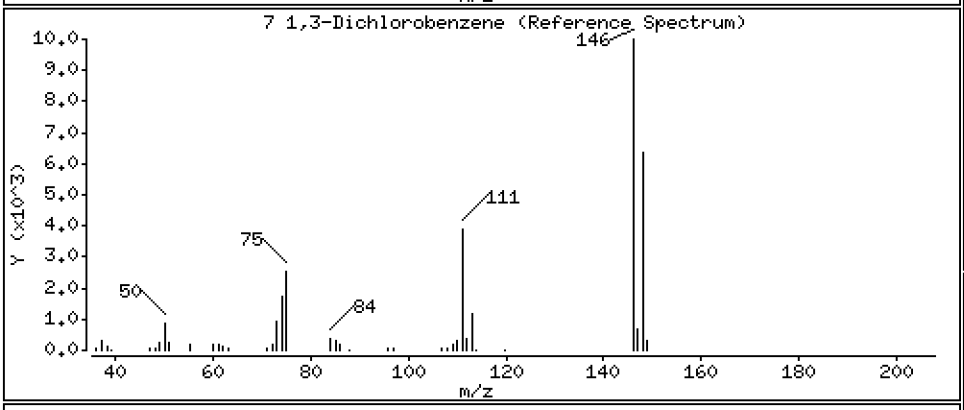
Concentration: 4.772 ug/mL

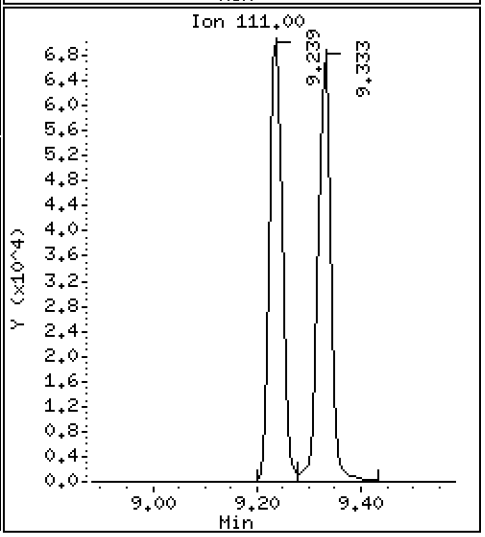


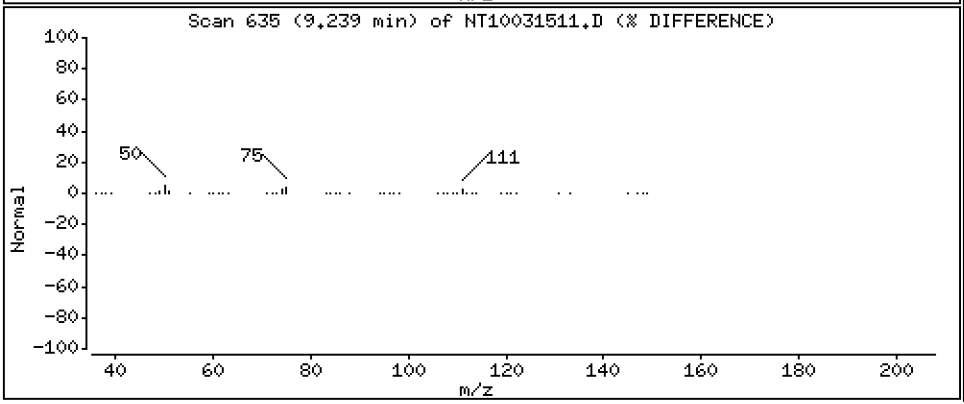












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

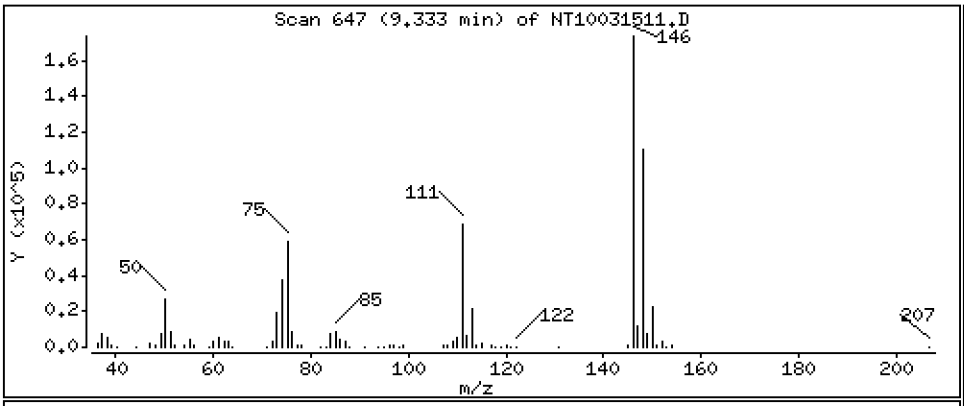
Operator: VTS

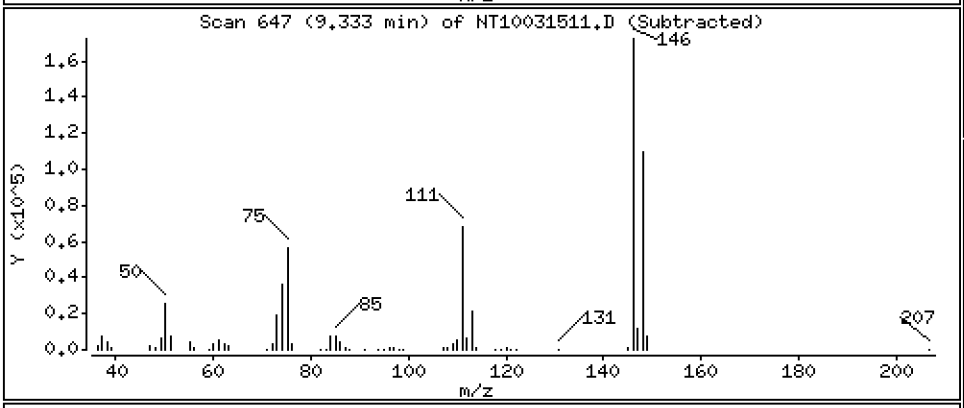
Column phase: ZB-5msi

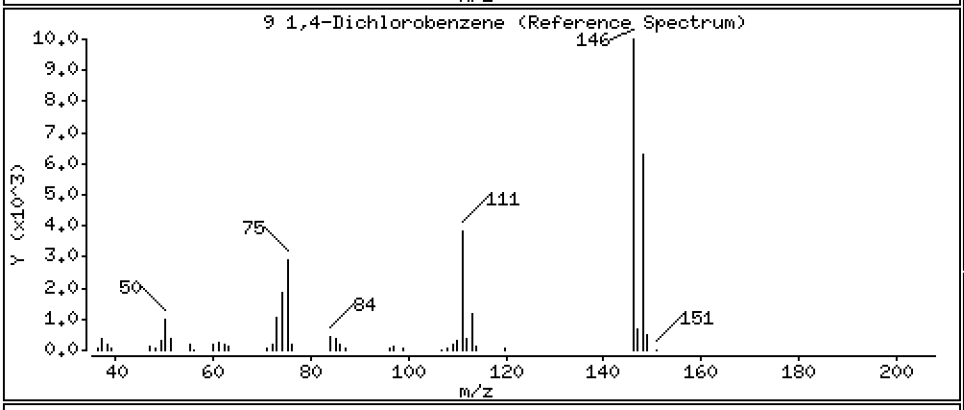
Column diameter: 0.25

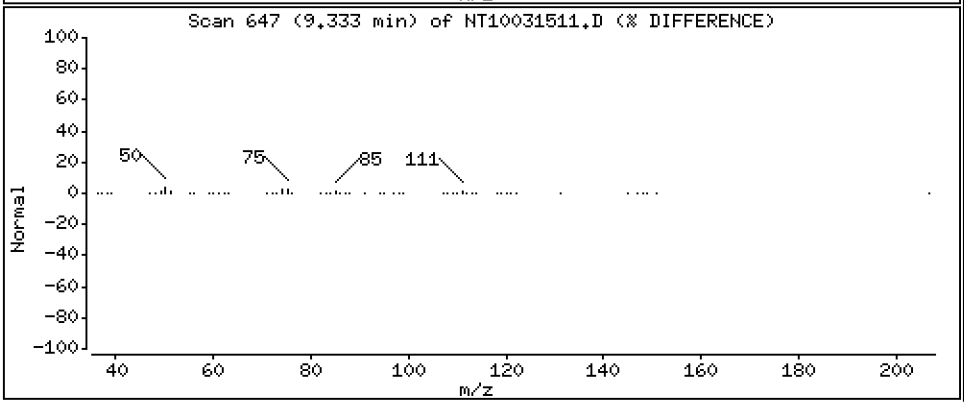
9 1,4-Dichlorobenzene

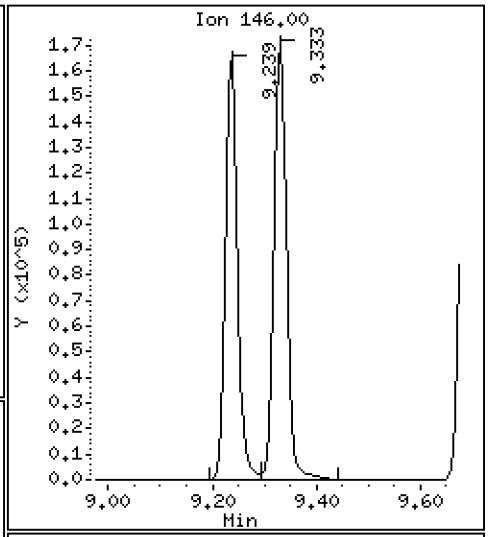
Concentration: 4.913 ug/mL

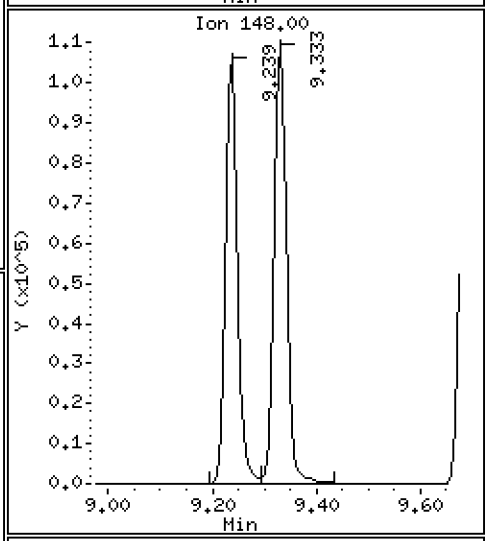


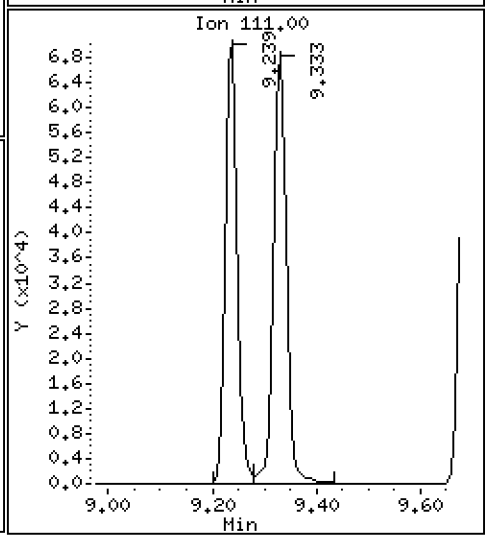












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

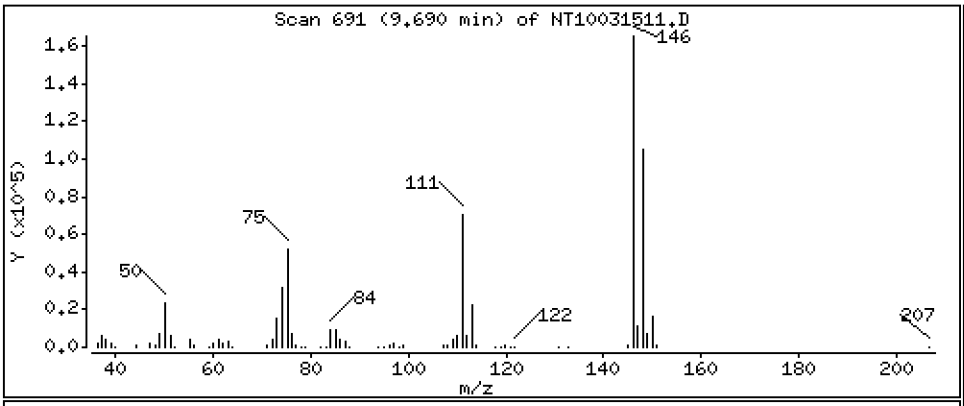
Operator: VTS

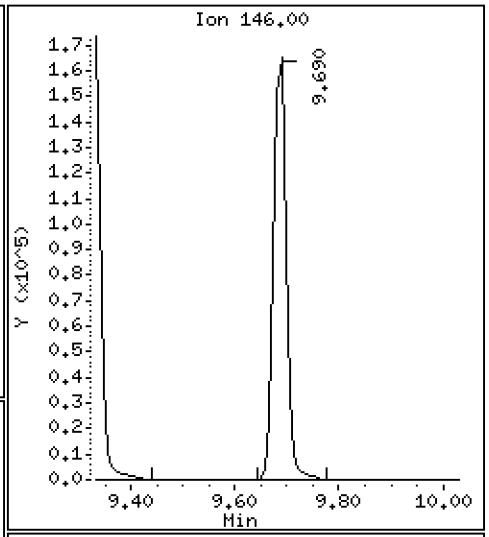
Column phase: ZB-5msi

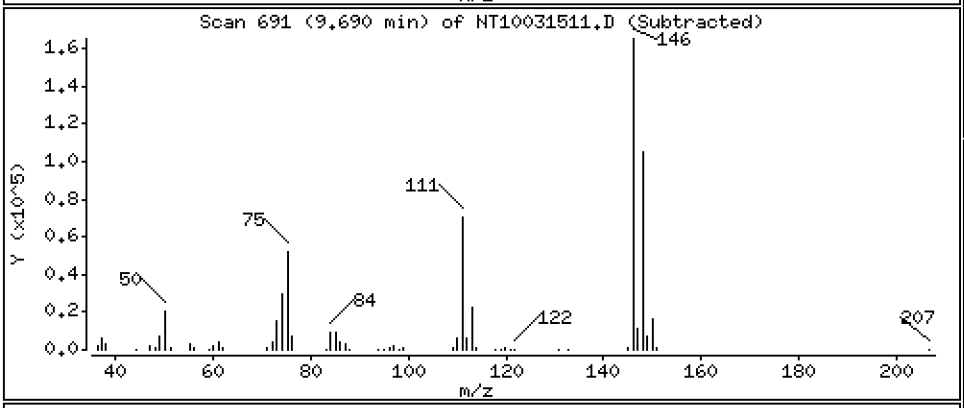
Column diameter: 0.25

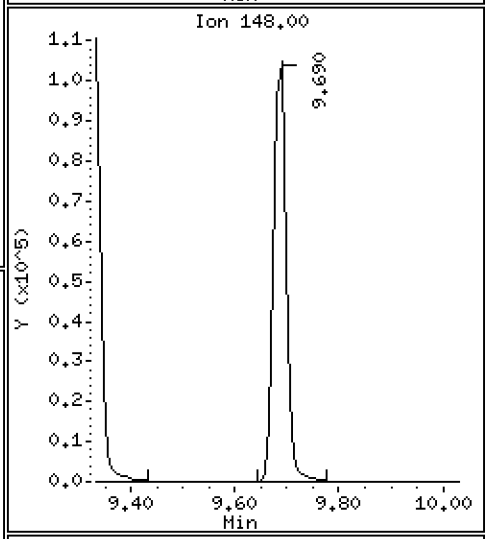
12 1,2-Dichlorobenzene

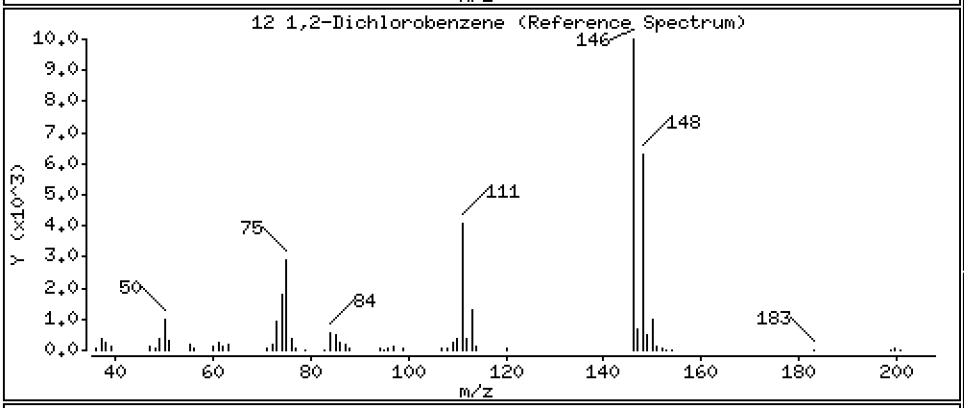
Concentration: 4.882 ug/mL

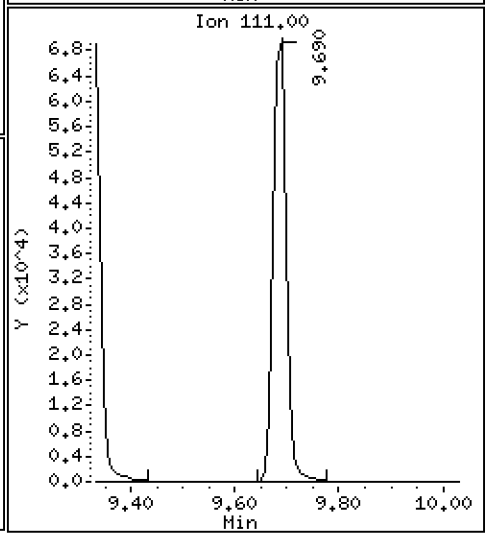


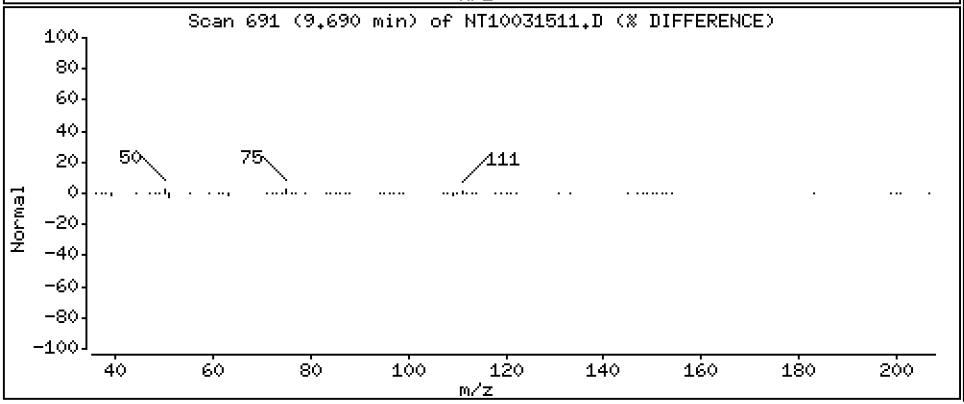












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

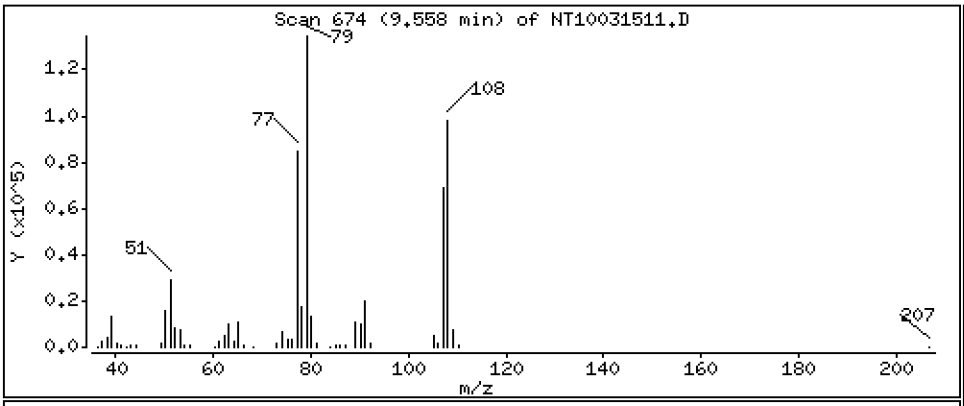
Operator: VTS

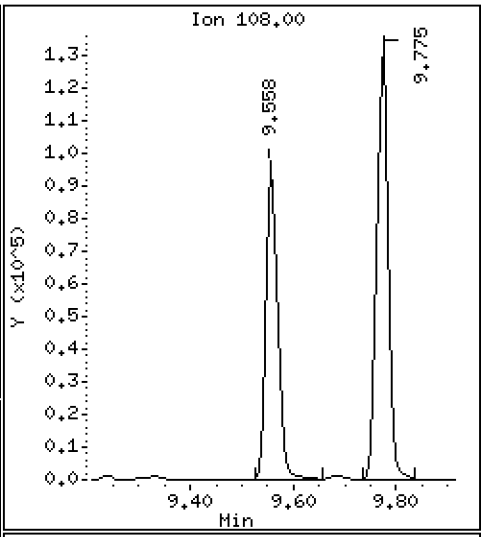
Column phase: ZB-5msi

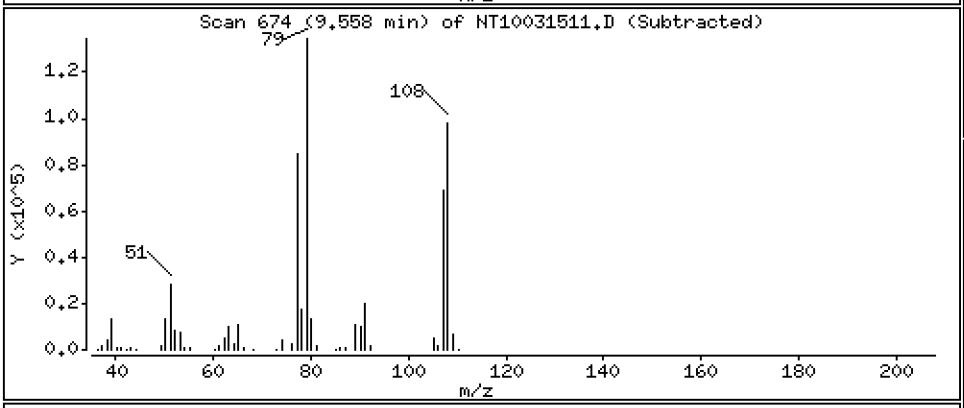
Column diameter: 0.25

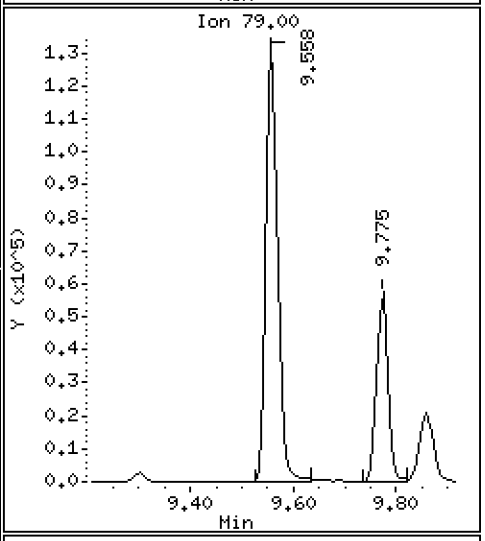
11 Benzyl alcohol

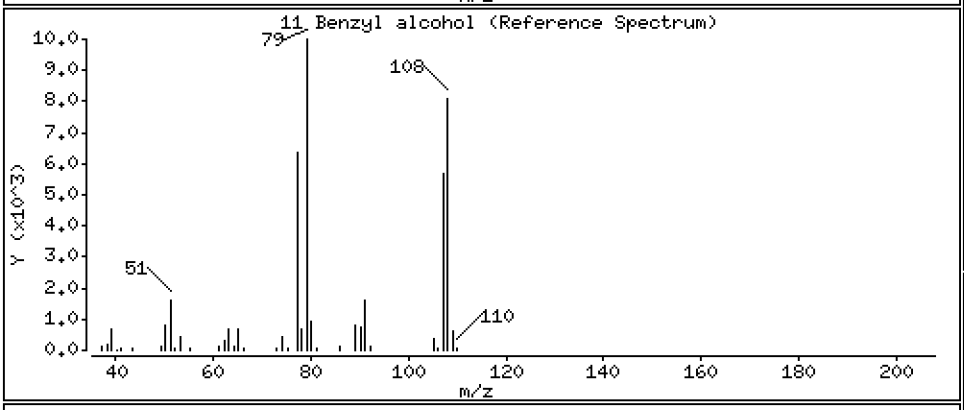
Concentration: 4.927 ug/mL

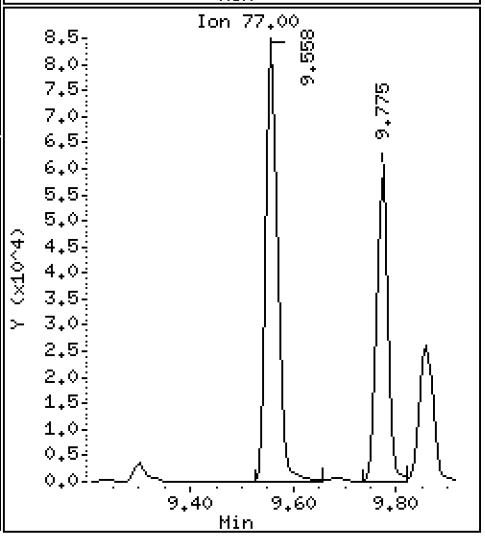


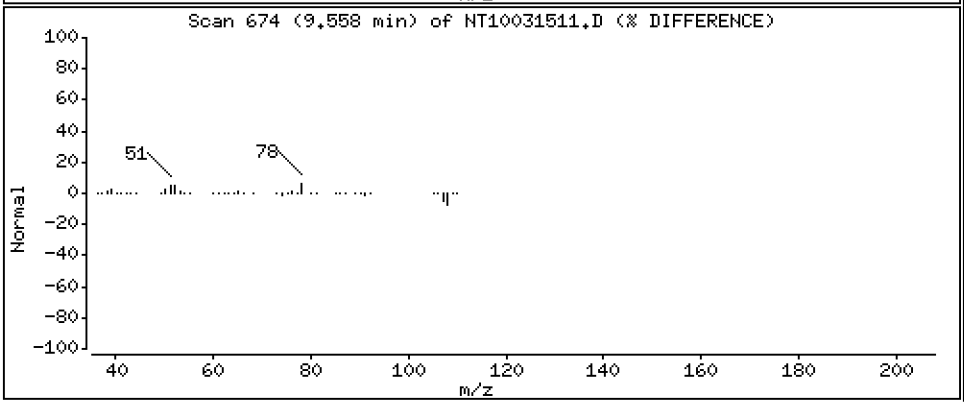












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

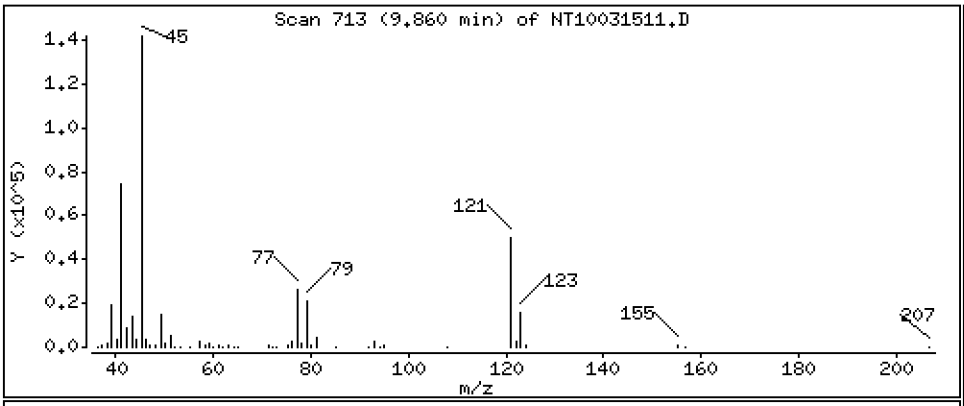
Operator: VTS

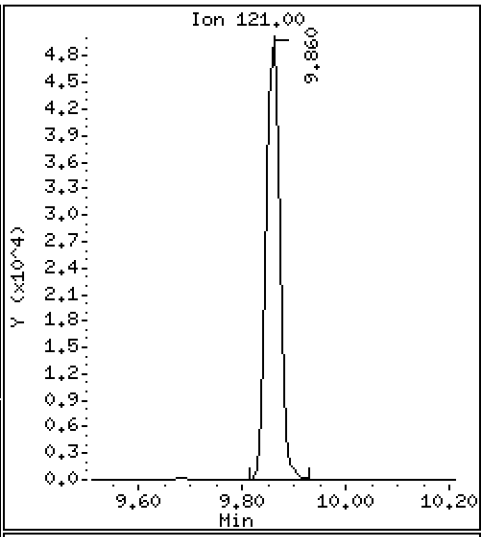
Column phase: ZB-5msi

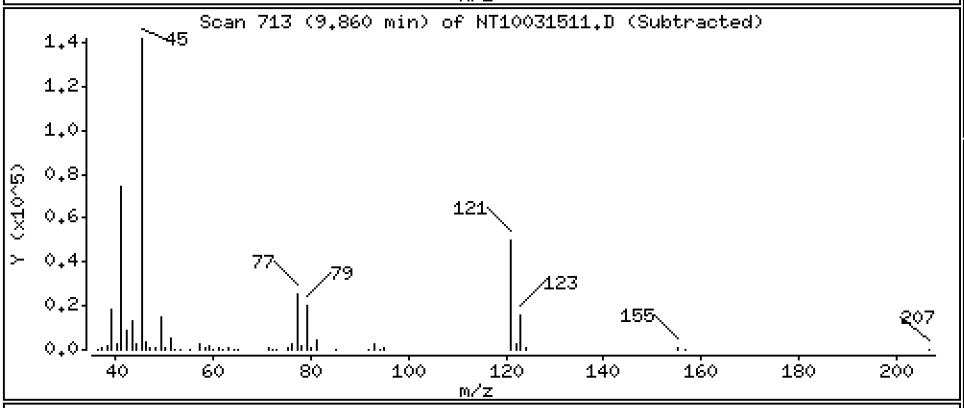
Column diameter: 0.25

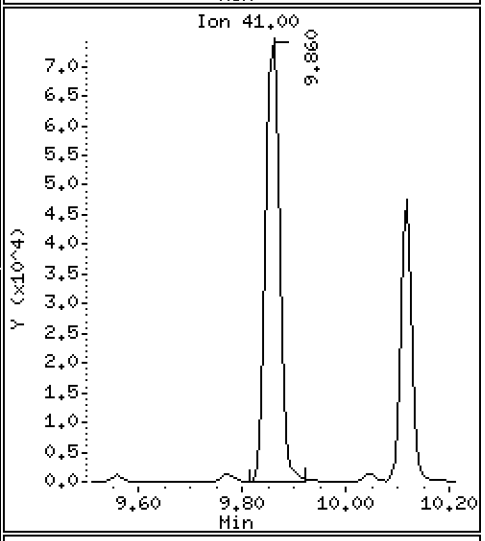
14 2,2'-oxybis(1-Chloropropane)

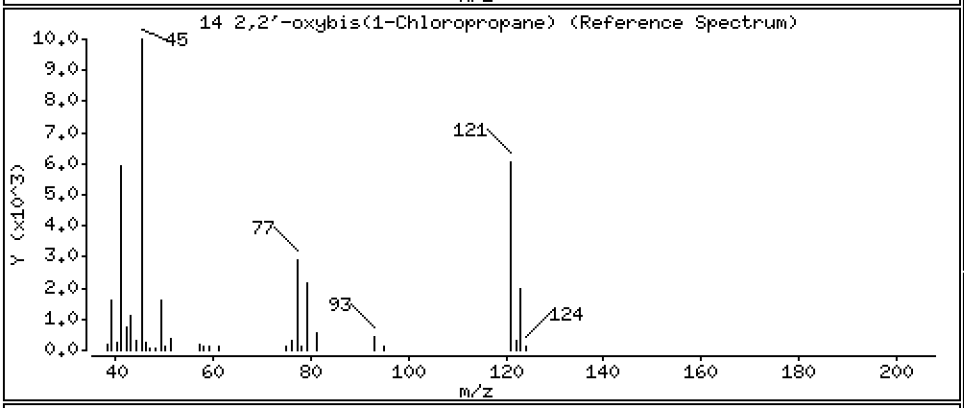
Concentration: 6.214 ug/mL

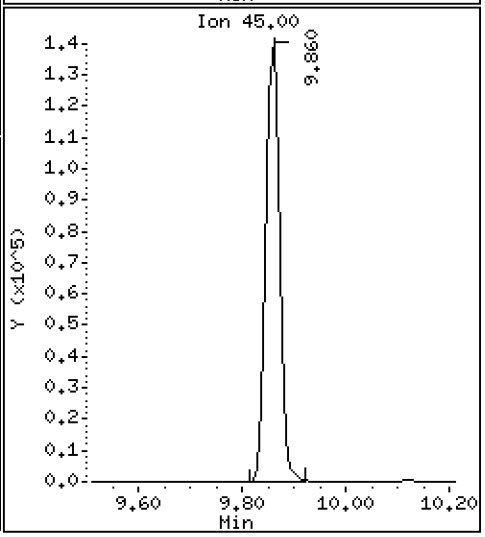


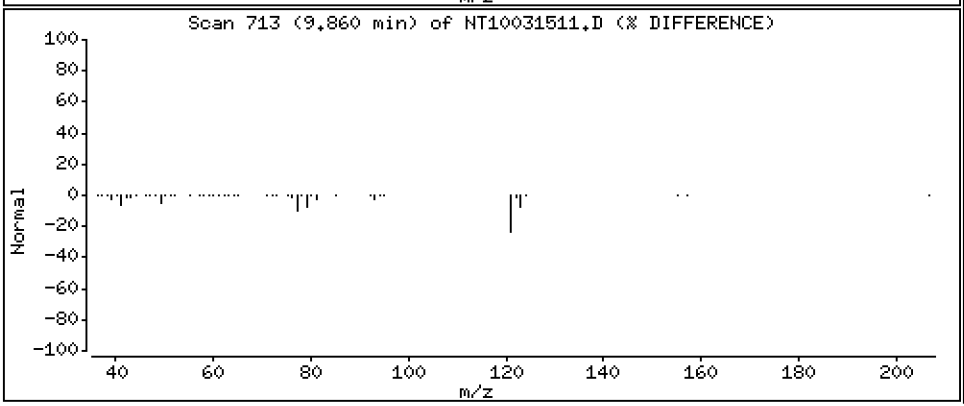












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

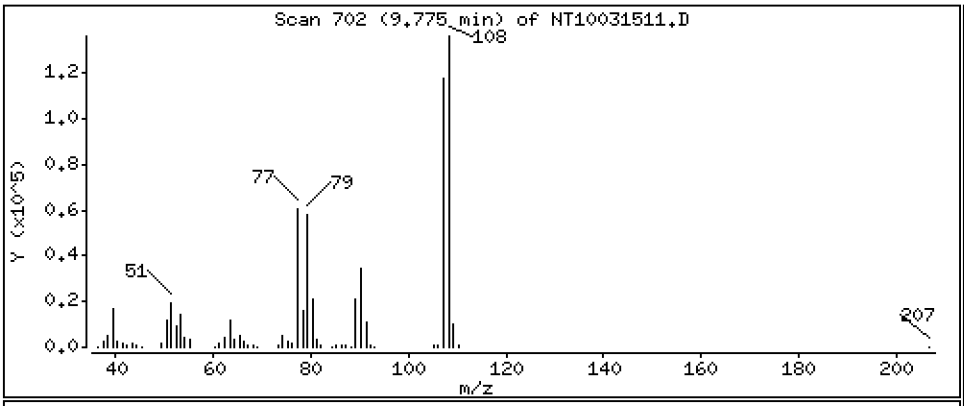
Operator: VTS

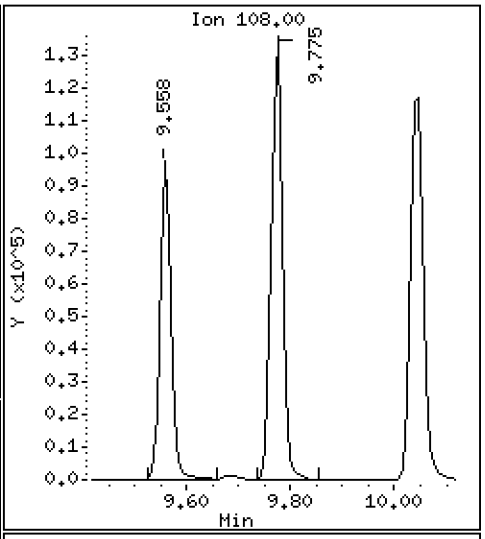
Column phase: ZB-5msi

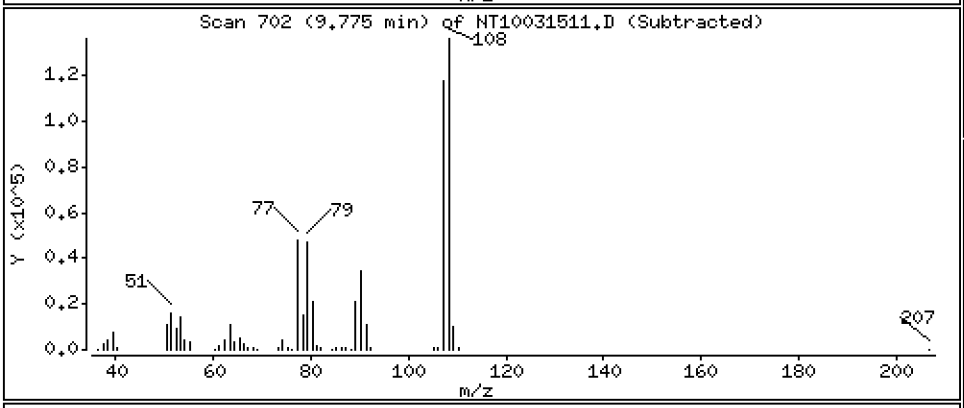
Column diameter: 0.25

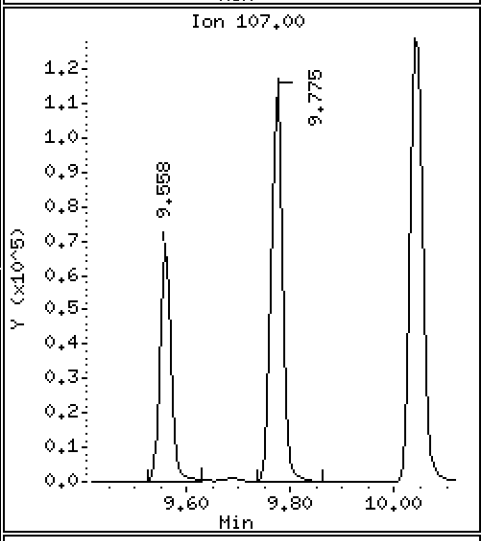
13 2-Methylphenol

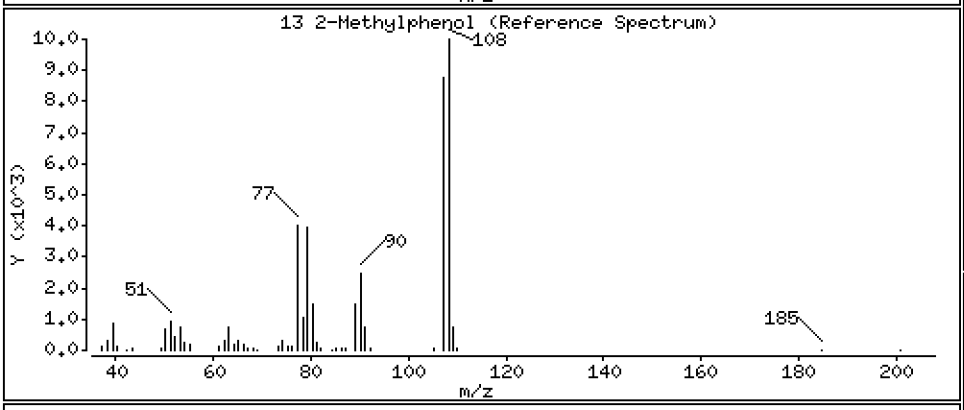
Concentration: 4.215 ug/mL

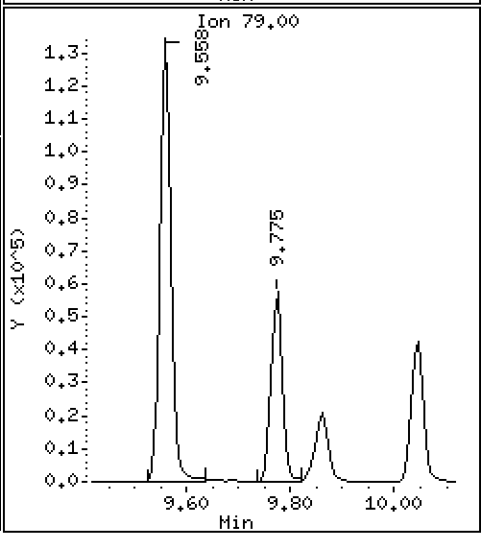


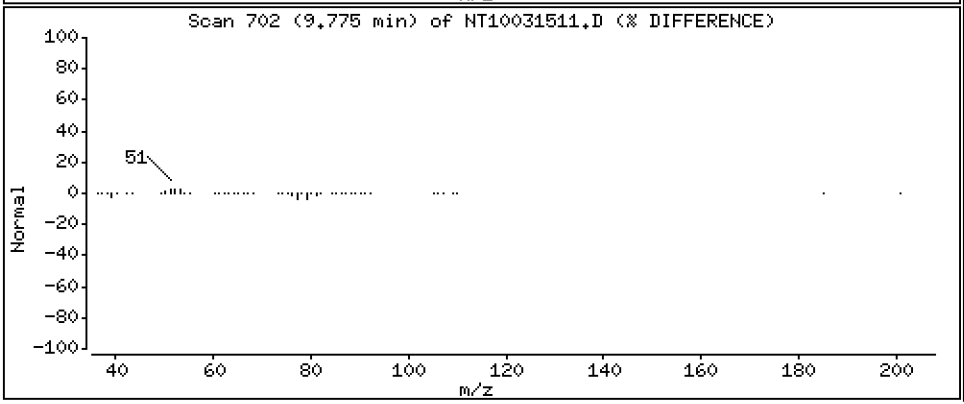












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

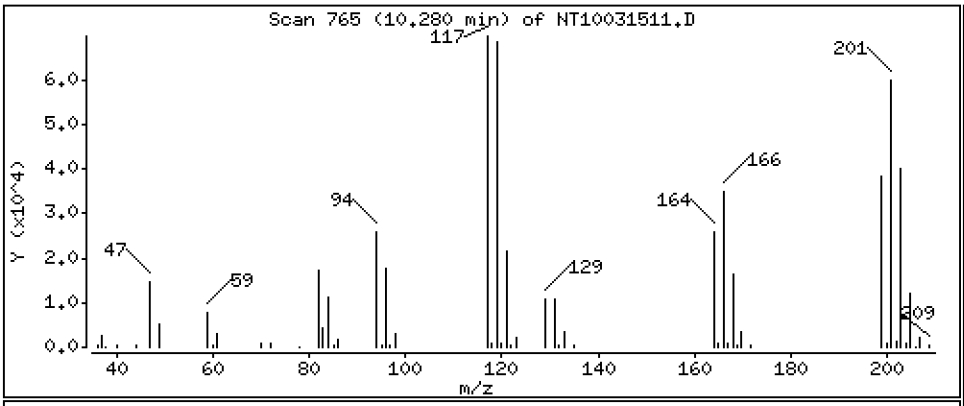
Operator: VTS

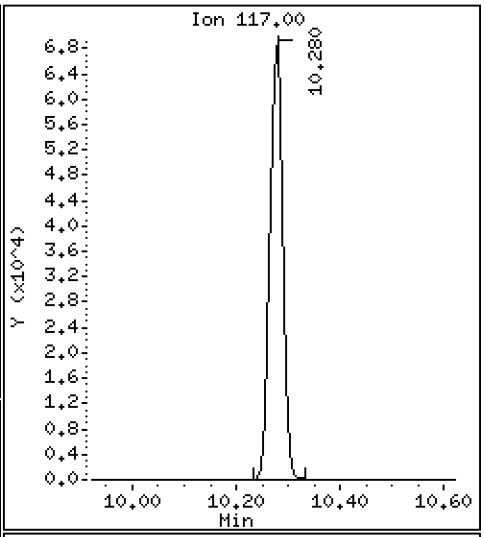
Column phase: ZB-5msi

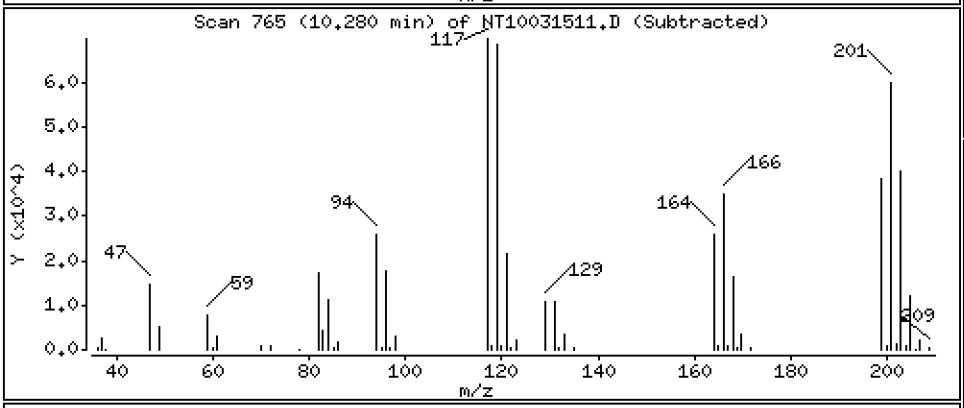
Column diameter: 0.25

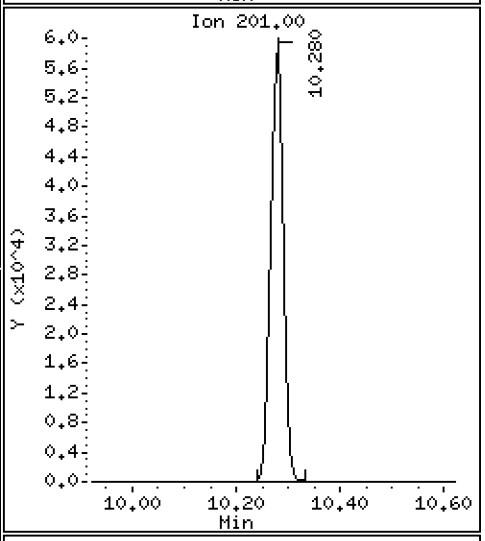
17 Hexachloroethane

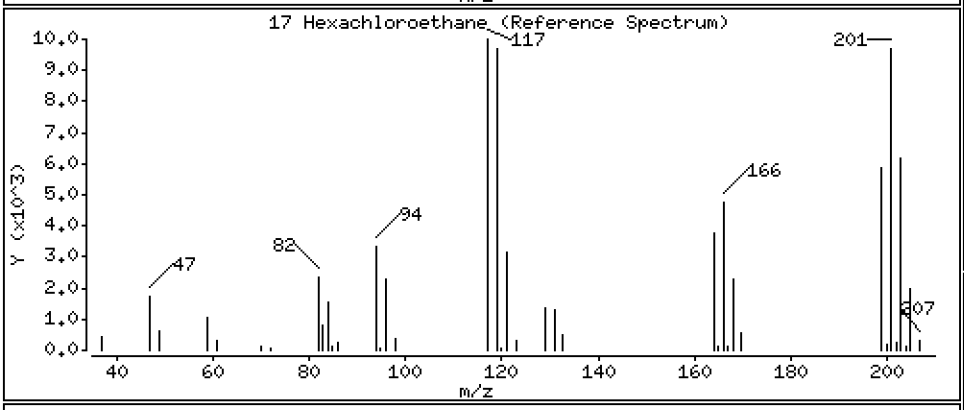
Concentration: 5.003 ug/mL

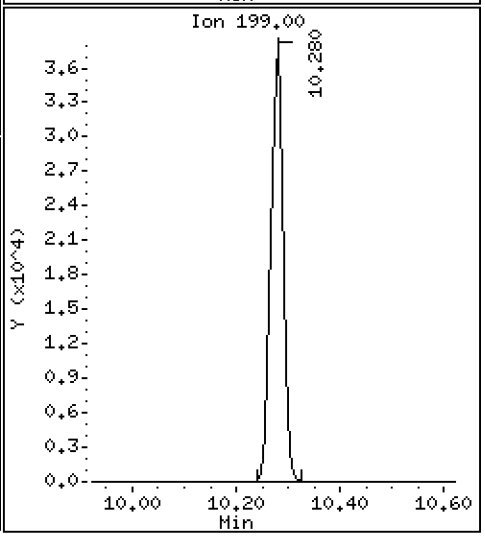


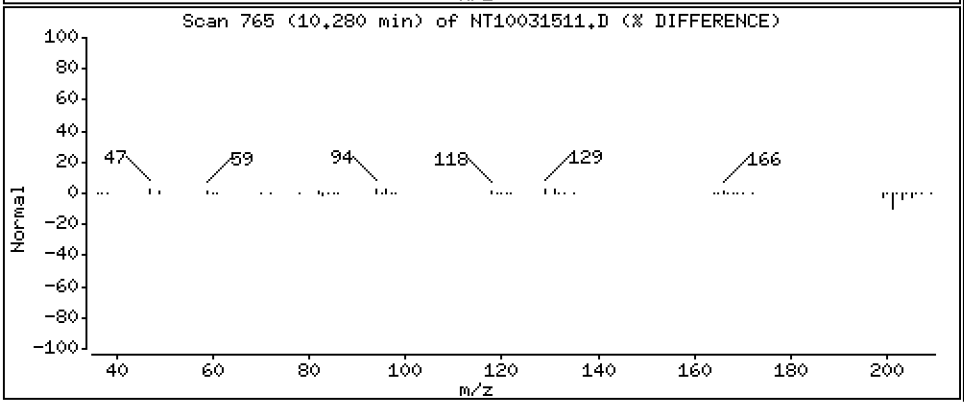












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

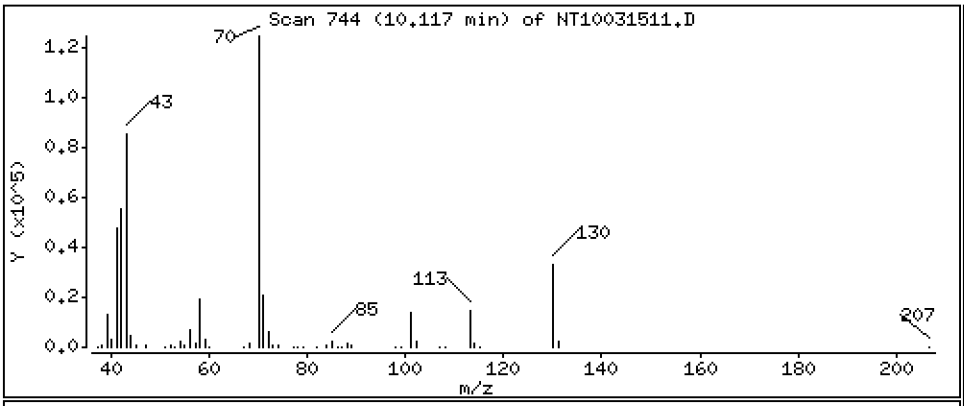
Operator: VTS

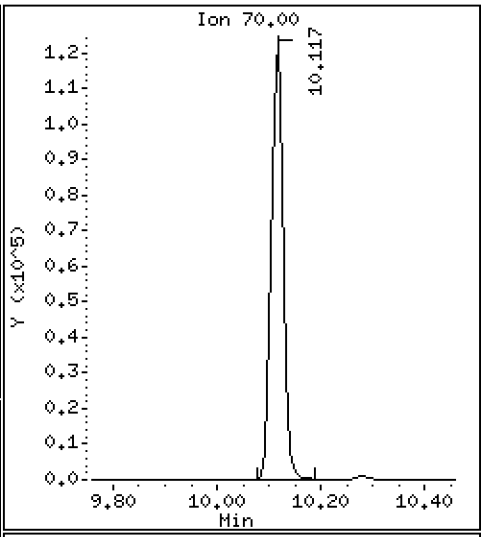
Column phase: ZB-5msi

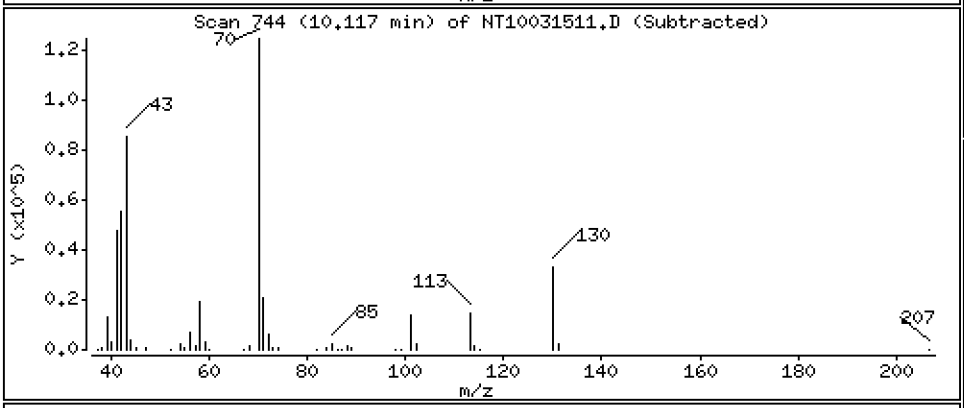
Column diameter: 0.25

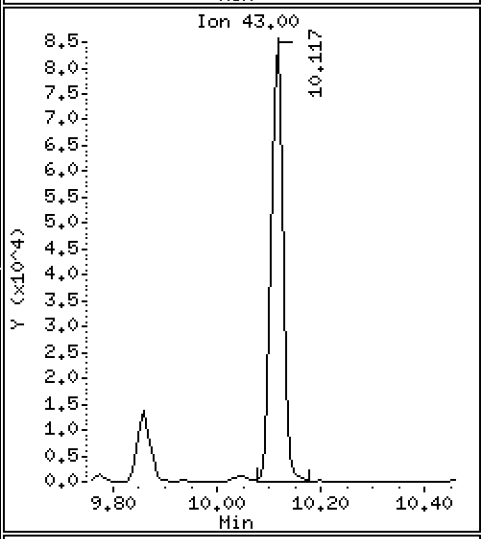
16 N-Nitroso-di-n-propylamine

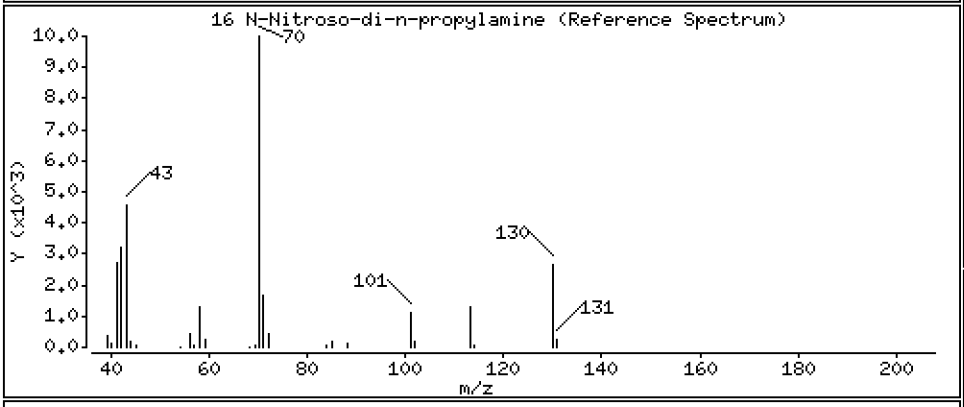
Concentration: 5.179 ug/mL

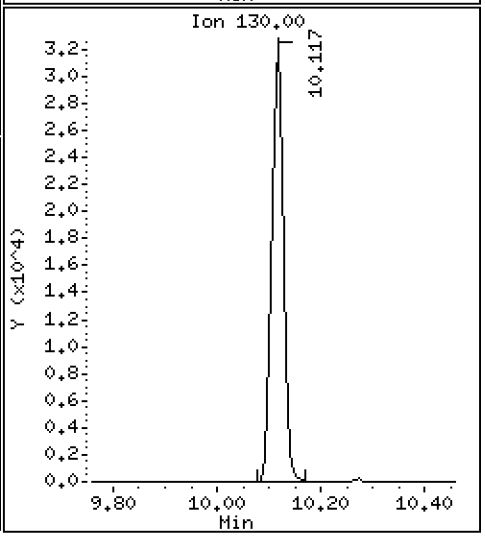


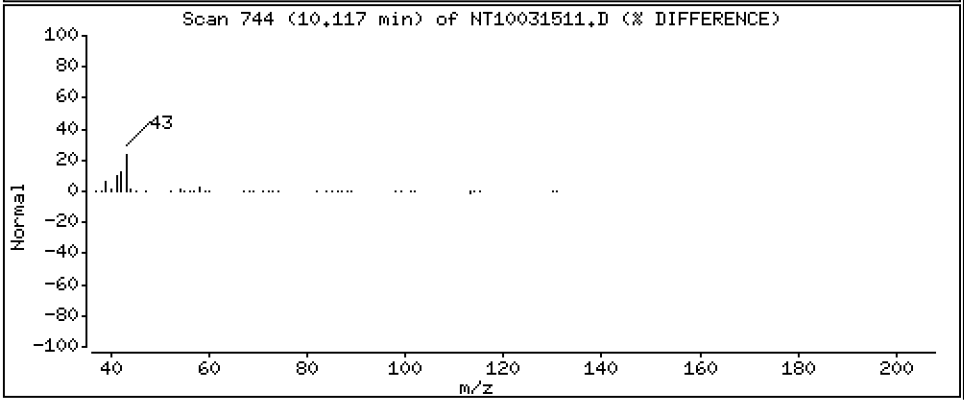












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

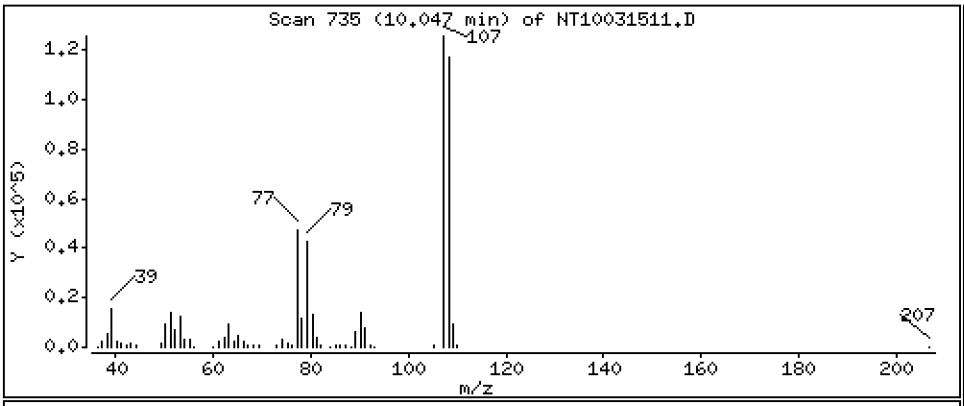
Operator: VTS

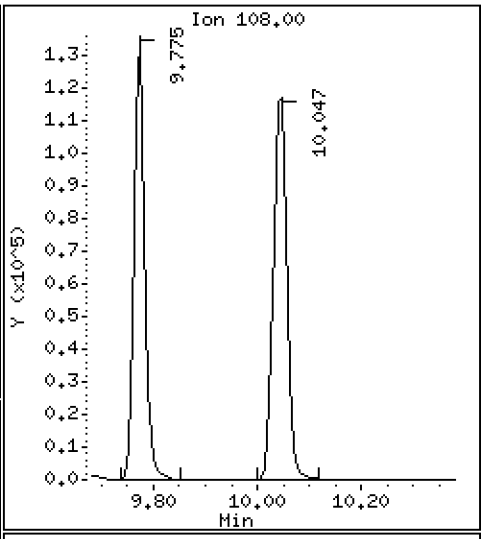
Column phase: ZB-5msi

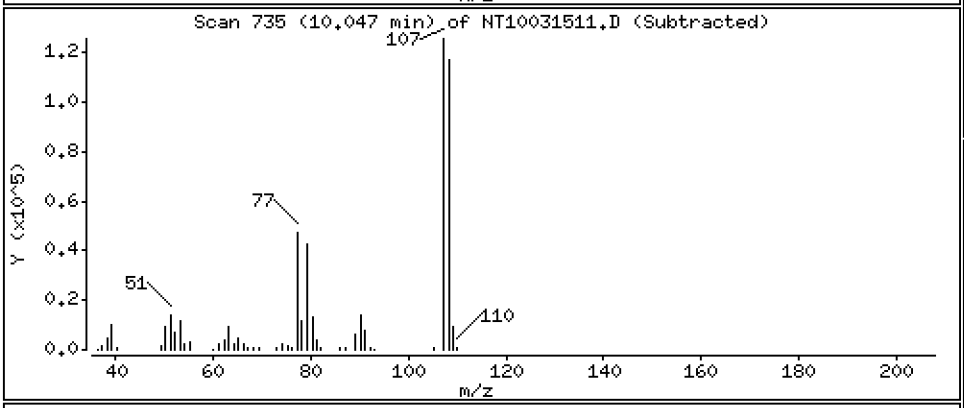
Column diameter: 0.25

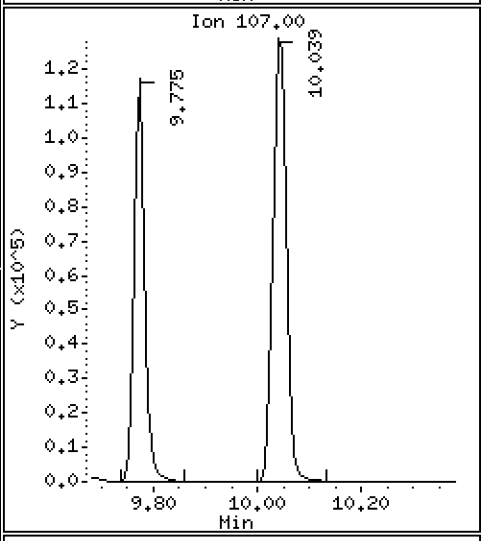
15 4-Methylphenol

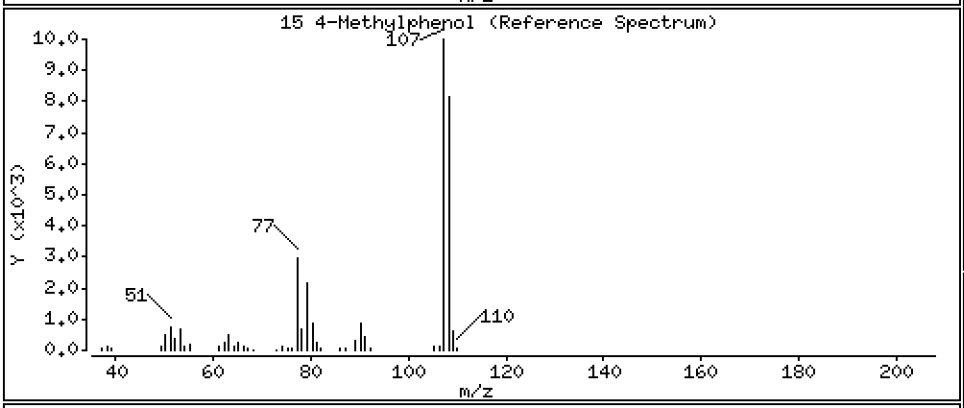
Concentration: 4.365 ug/mL

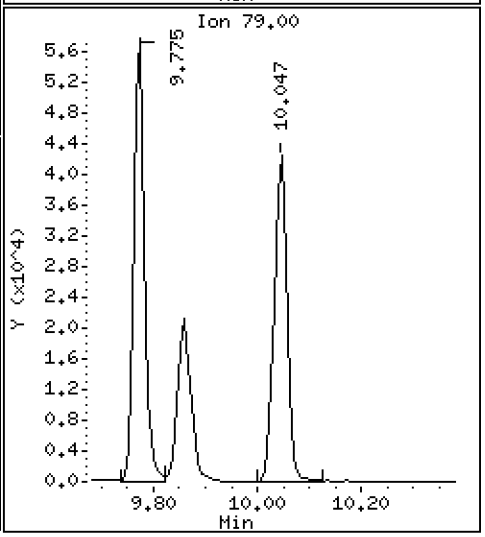


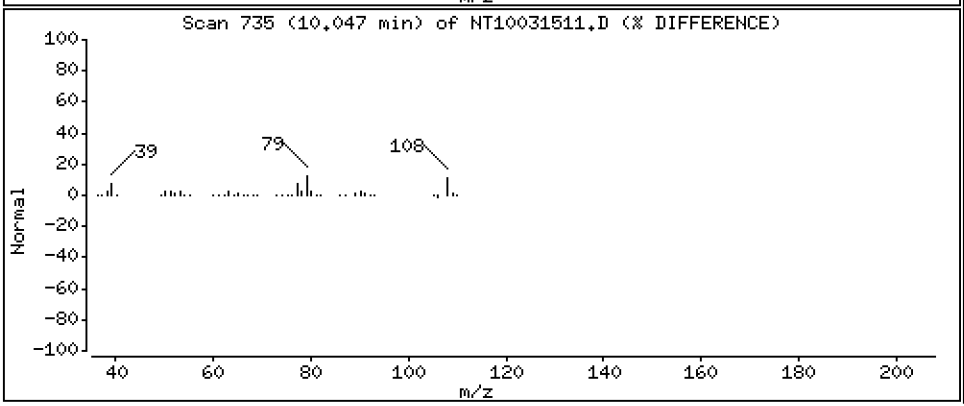












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

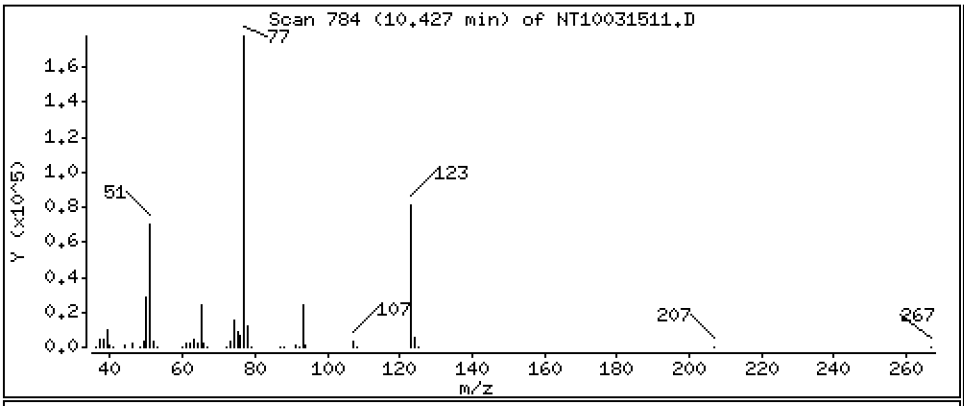
Operator: VTS

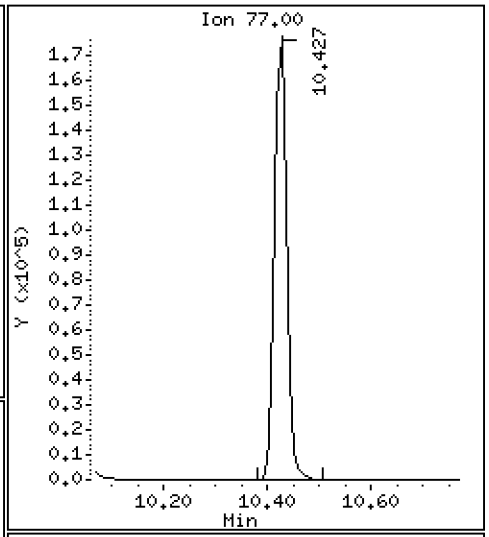
Column phase: ZB-5msi

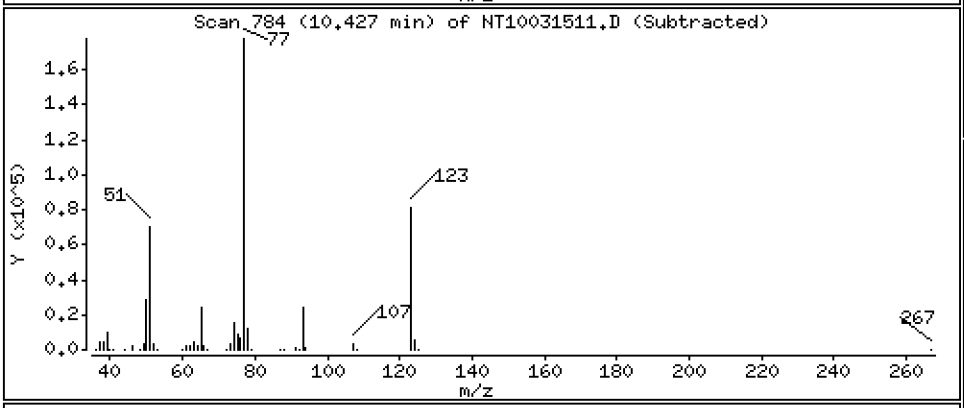
Column diameter: 0.25

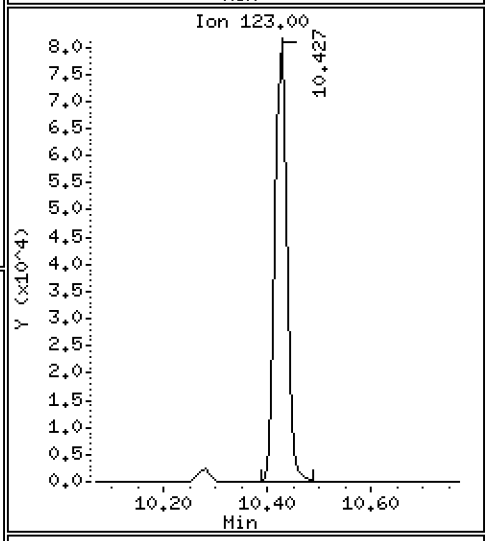
19 Nitrobenzene

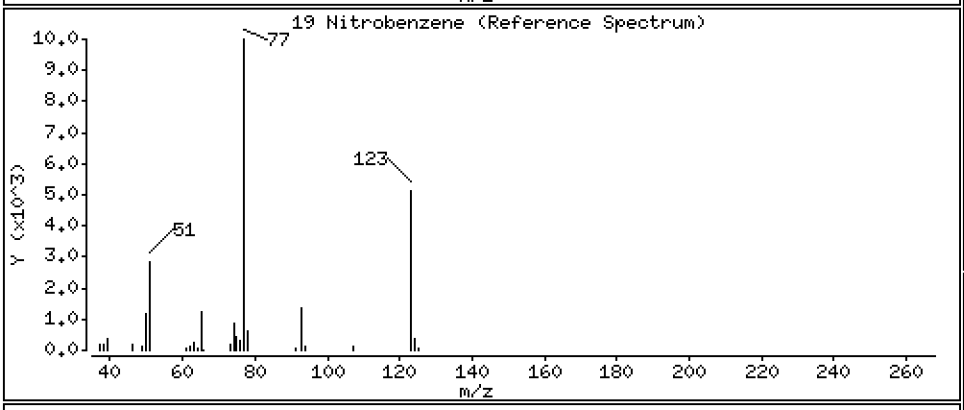
Concentration: 4.858 ug/mL

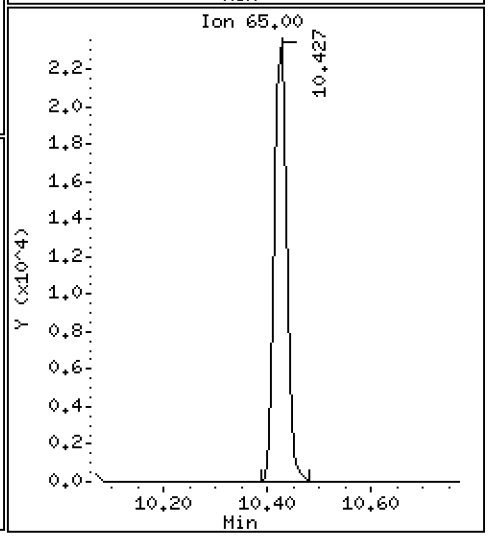


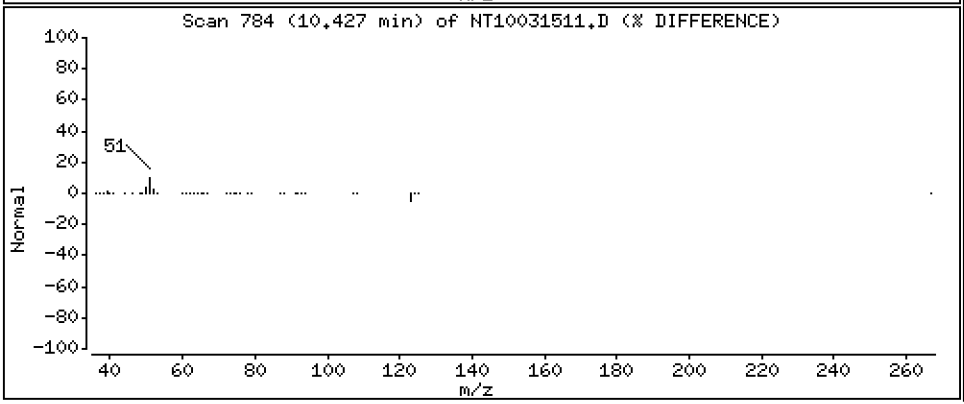












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

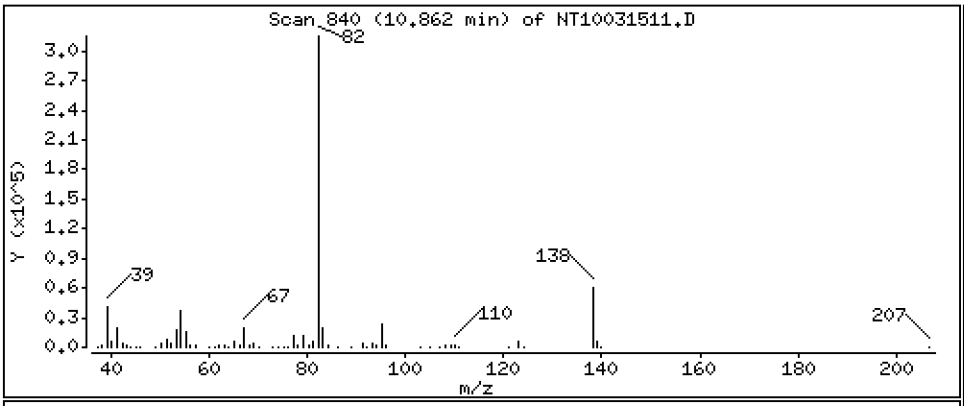
Operator: VTS

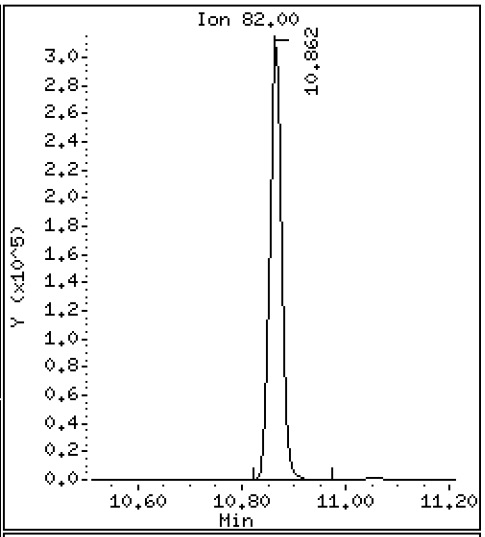
Column phase: ZB-5msi

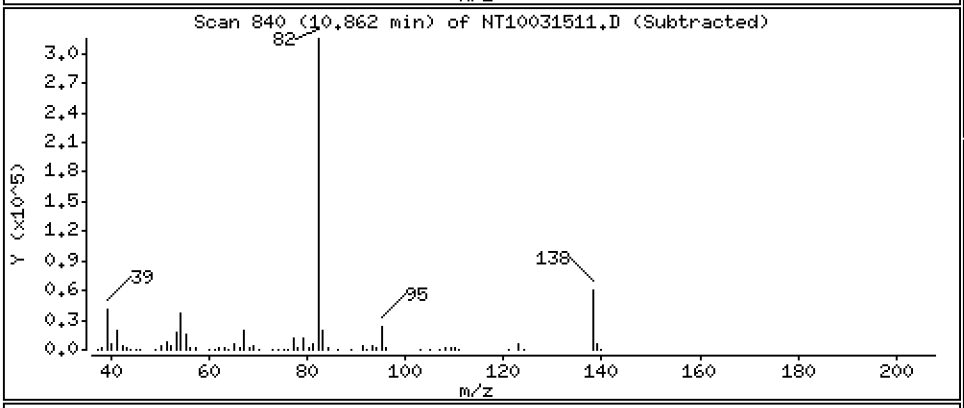
Column diameter: 0.25

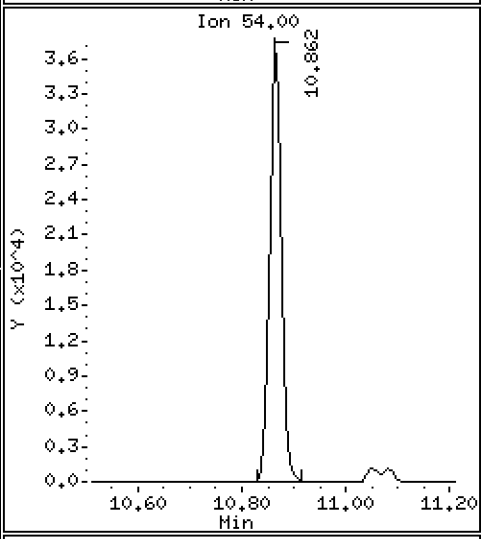
20 Isophorone

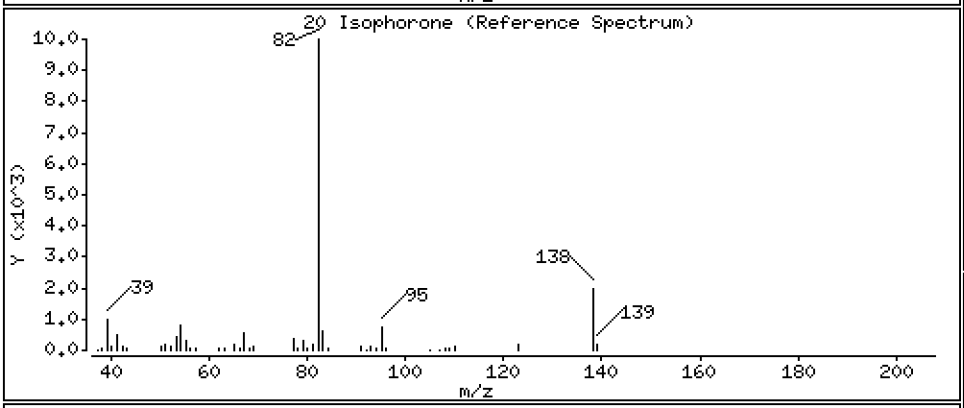
Concentration: 7.696 ug/mL

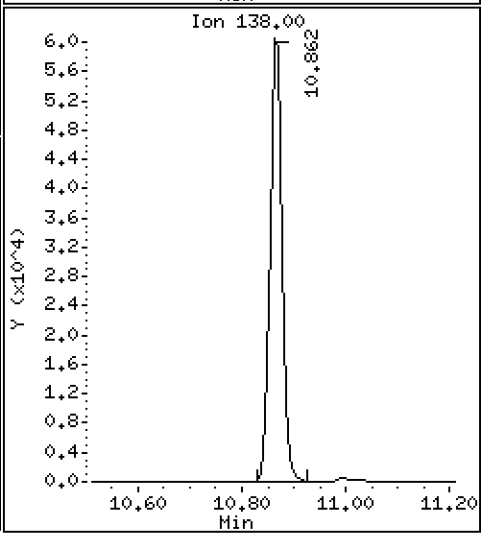


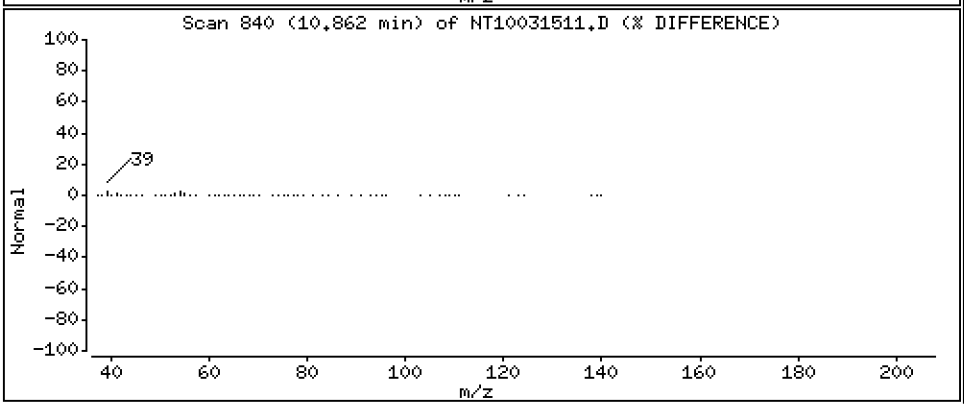












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

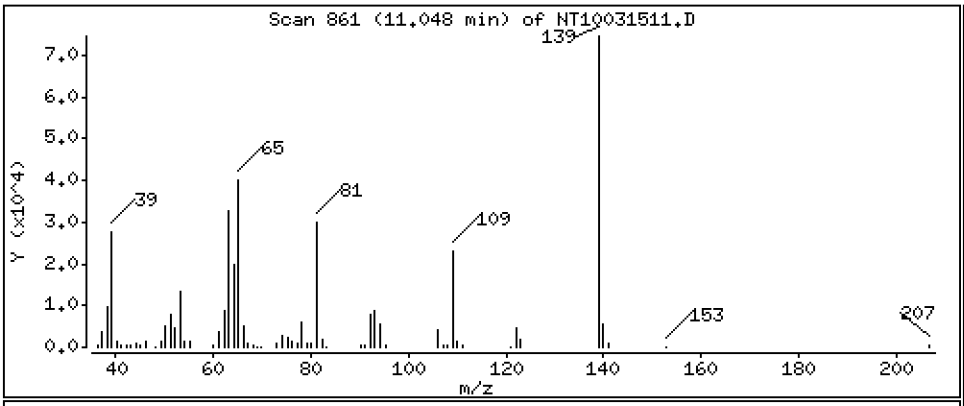
Operator: VTS

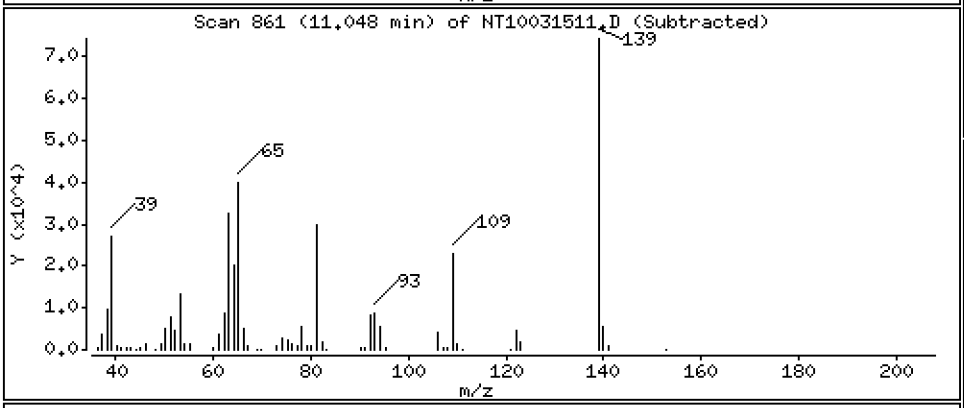
Column phase: ZB-5msi

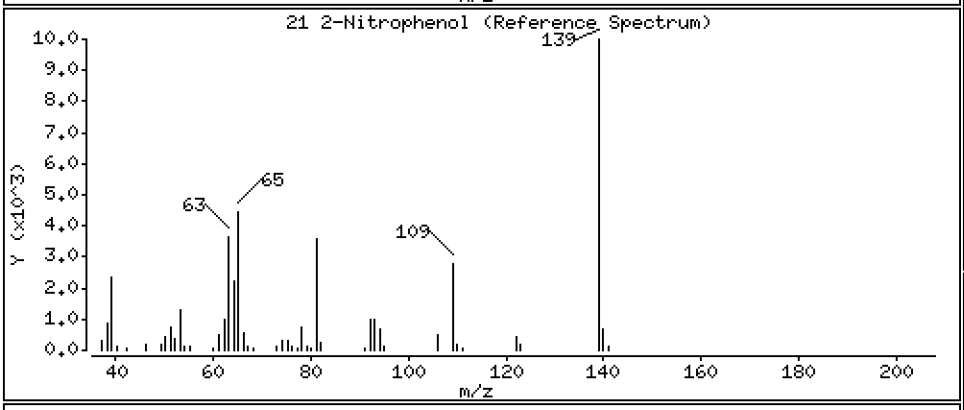
Column diameter: 0.25

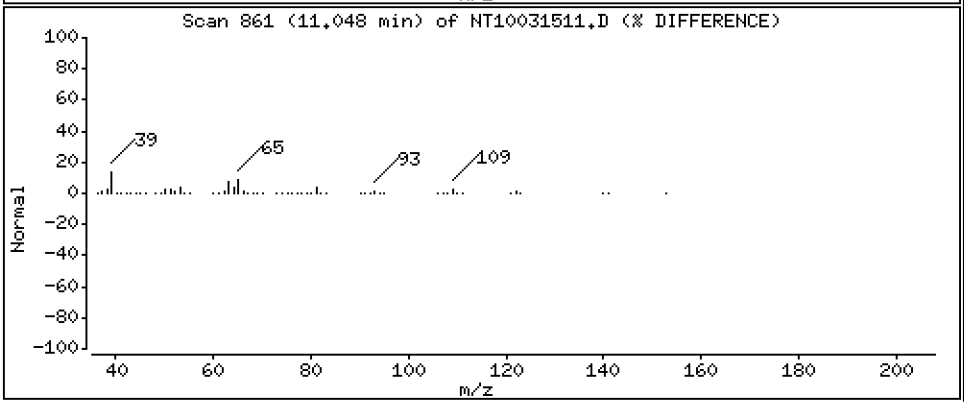
21 2-Nitrophenol

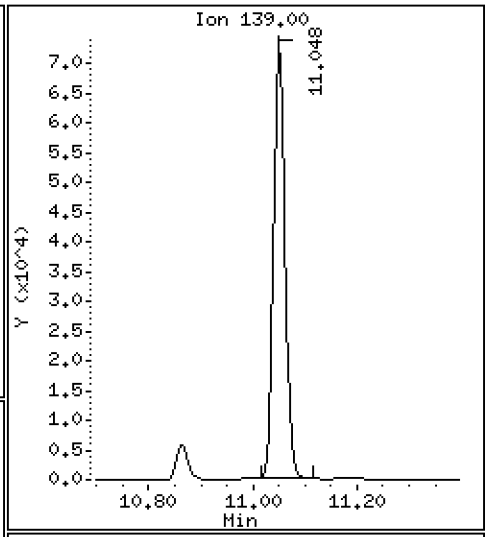
Concentration: 3.995 ug/mL

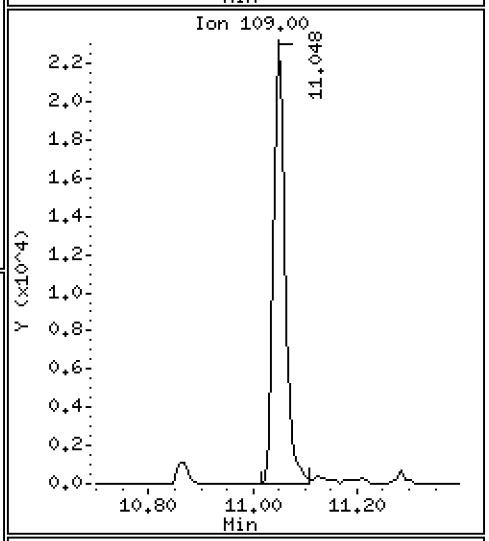


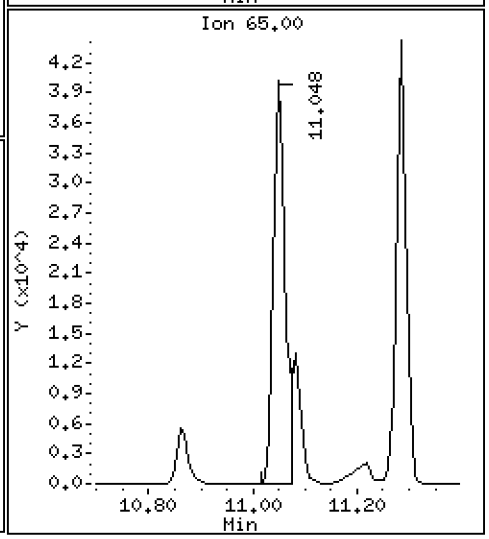












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

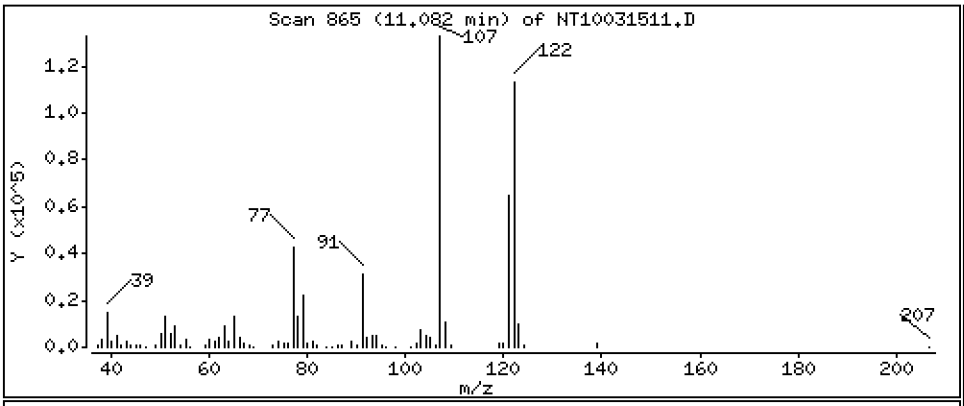
Operator: VTS

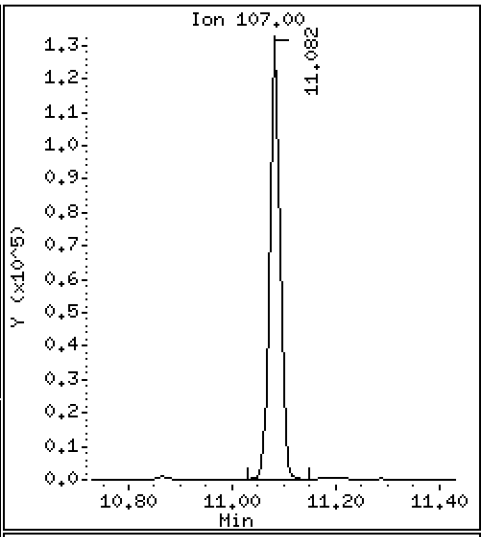
Column phase: ZB-5msi

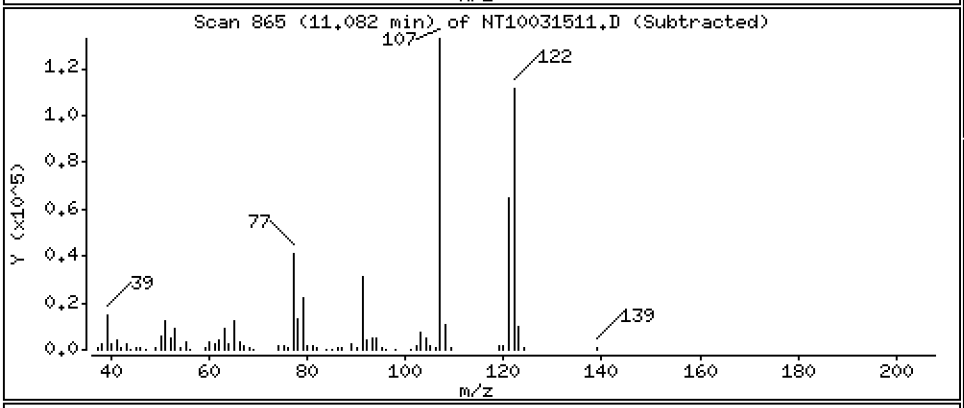
Column diameter: 0.25

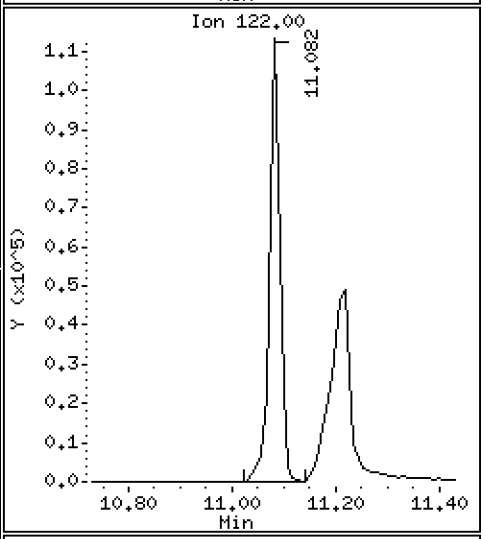
22 2,4-Dimethylphenol

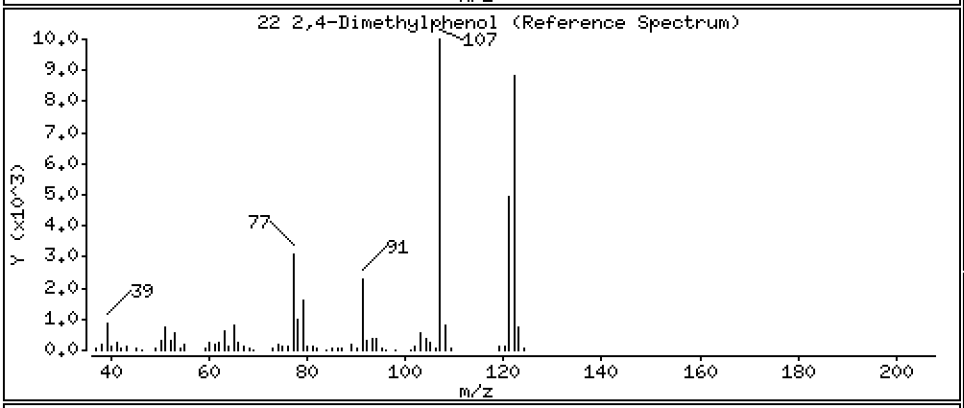
Concentration: 3.632 ug/mL

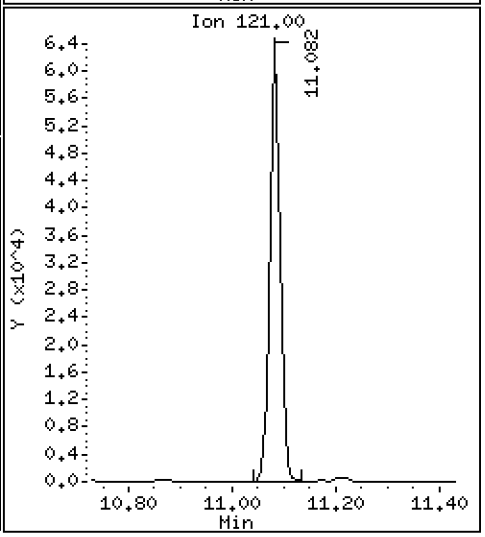


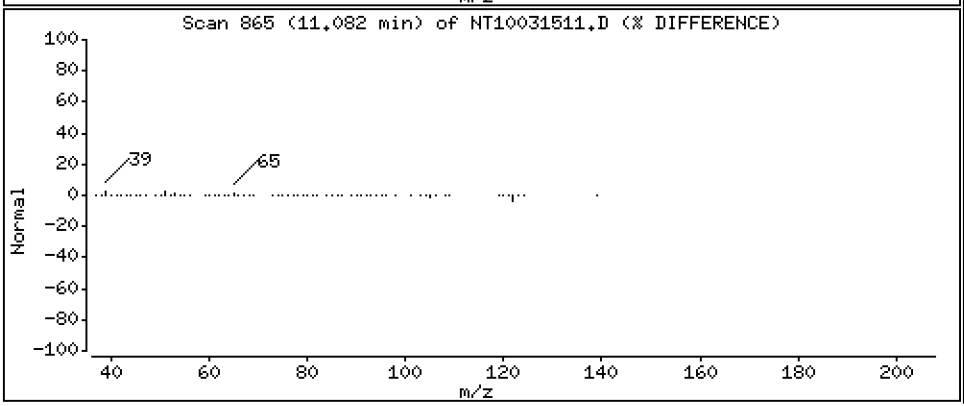












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

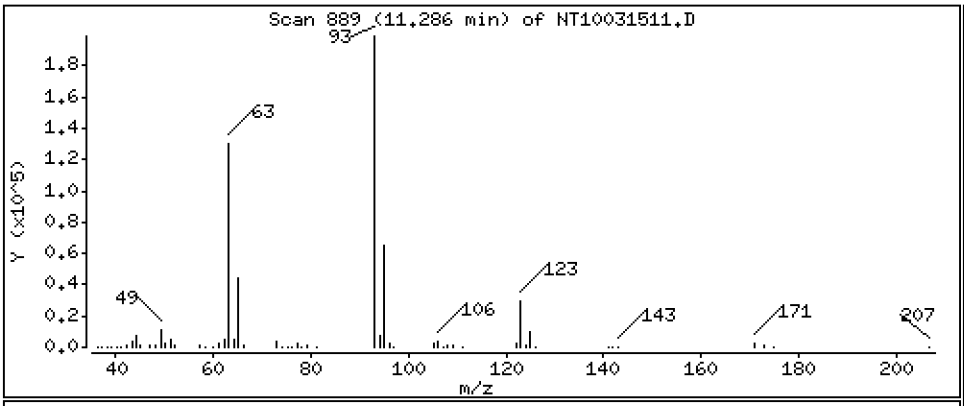
Operator: VTS

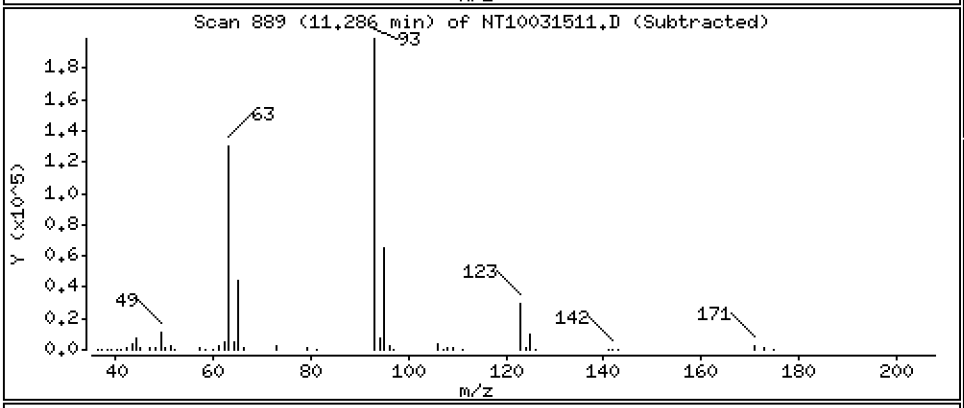
Column phase: ZB-5msi

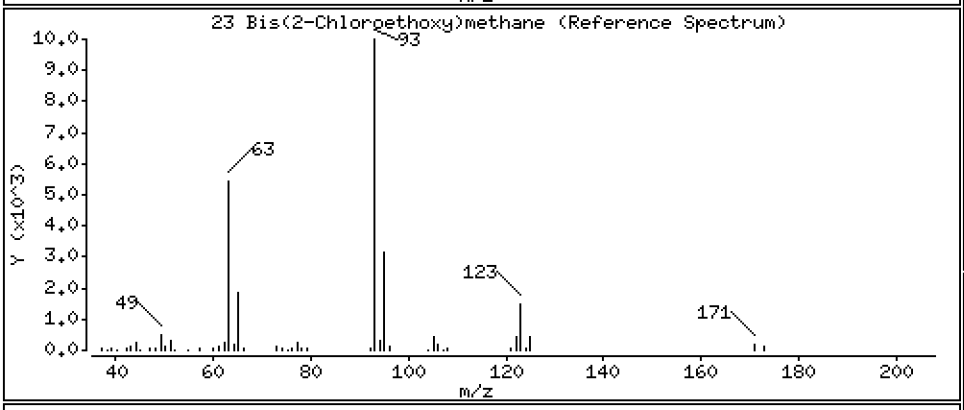
Column diameter: 0.25

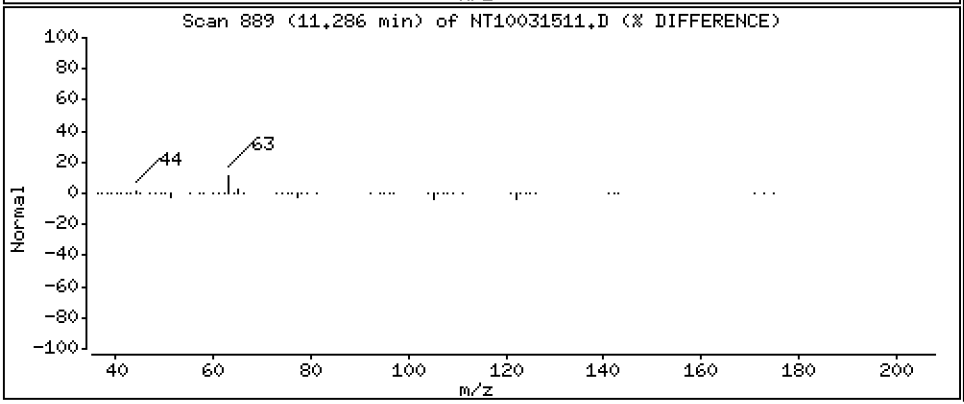
23 Bis(2-Chloroethoxy)methane

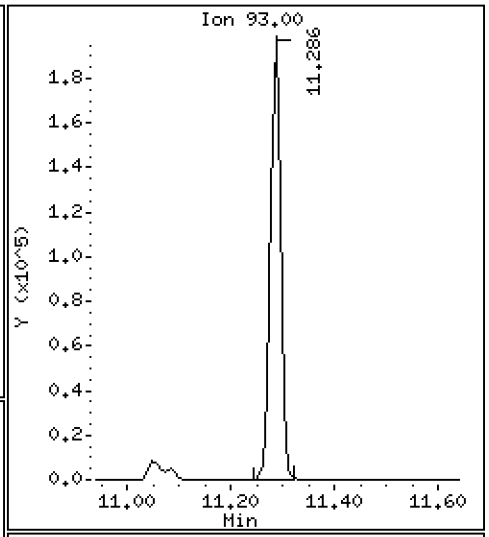
Concentration: 5.654 ug/mL

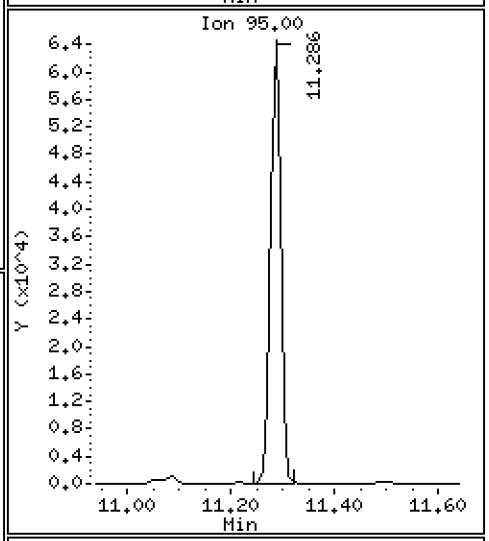


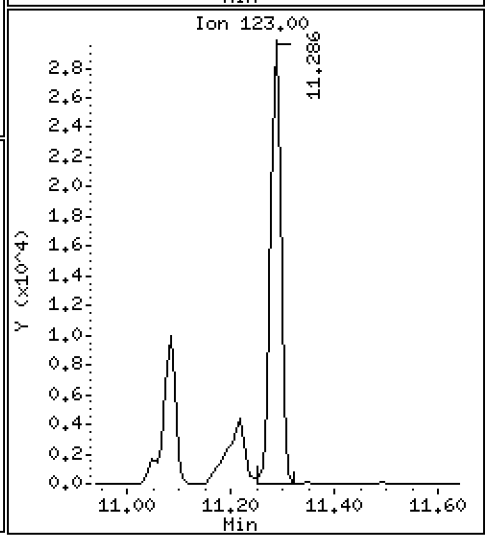












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

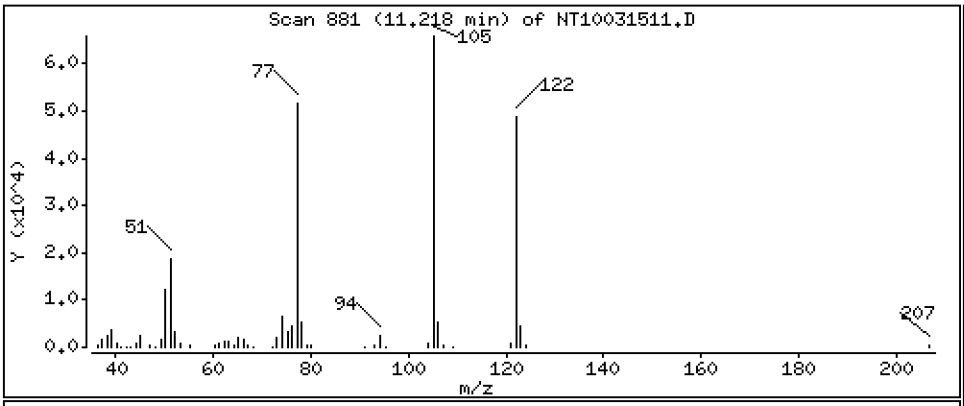
Operator: VTS

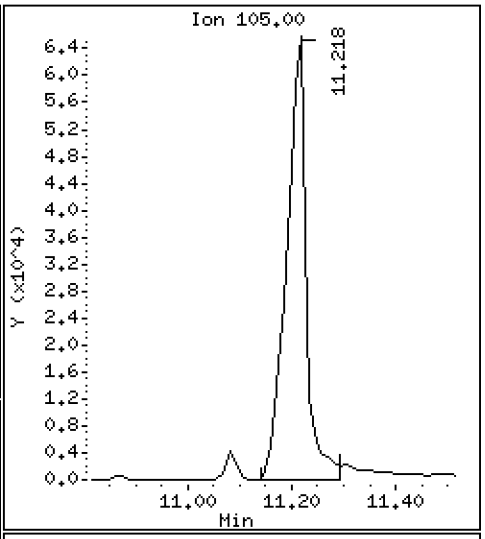
Column phase: ZB-5msi

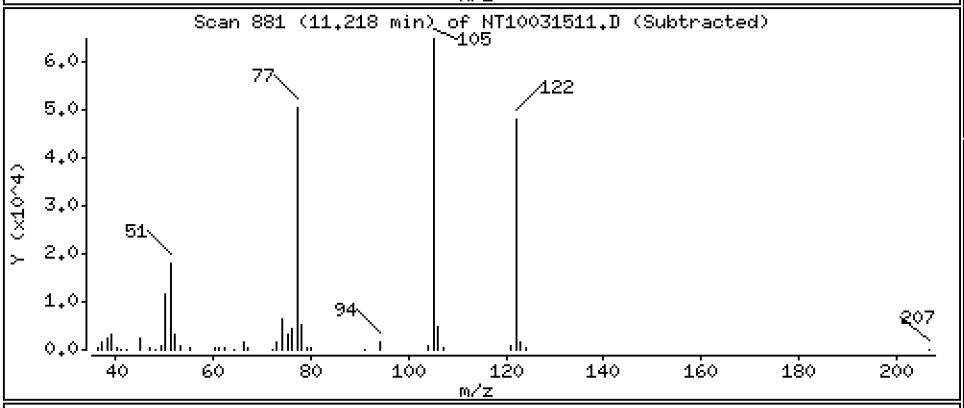
Column diameter: 0.25

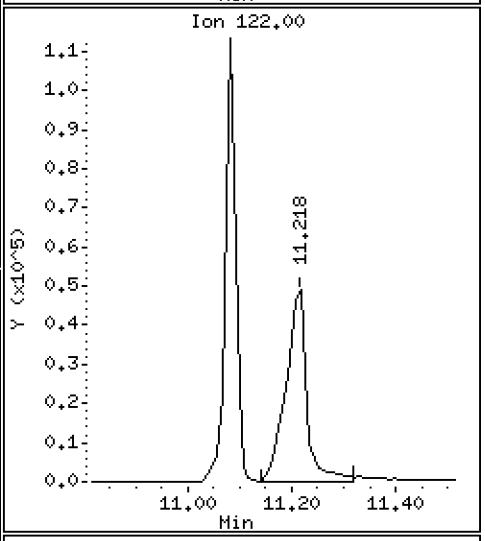
24 Benzoic acid

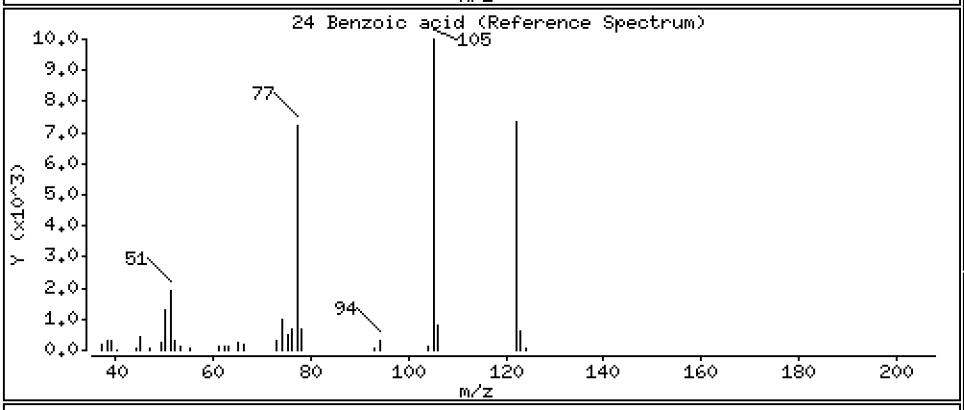
Concentration: 5.952 ug/mL

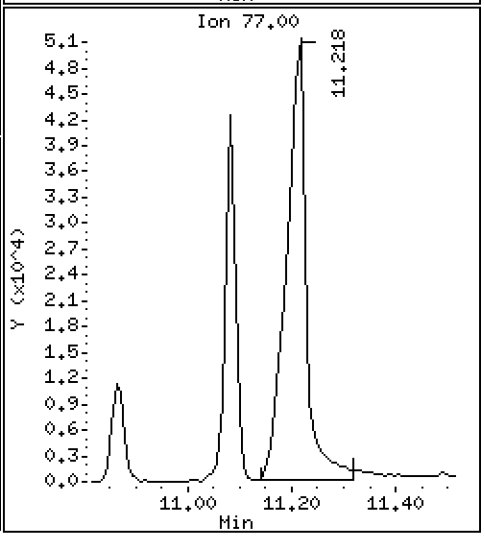


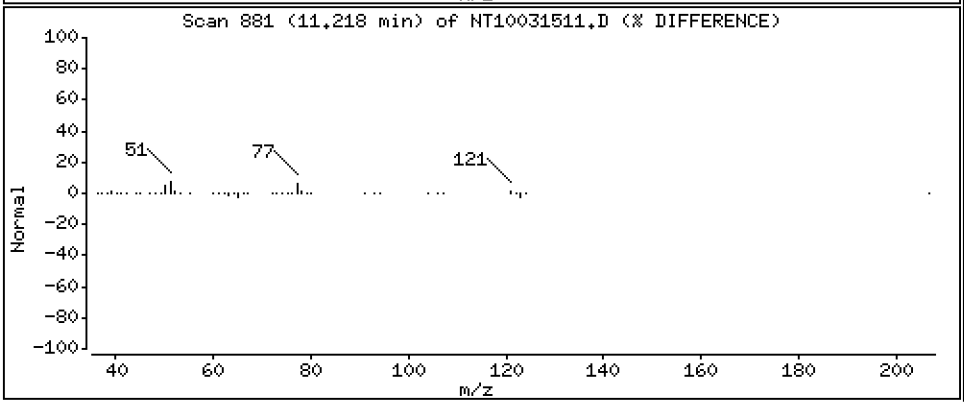












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

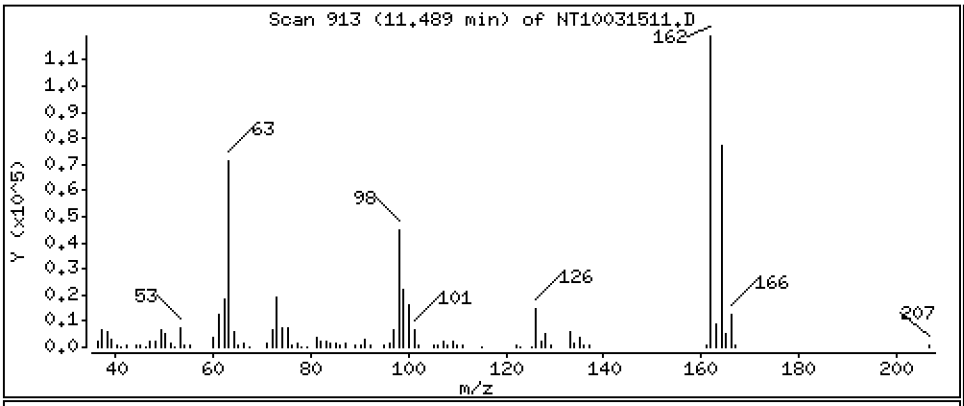
Operator: VTS

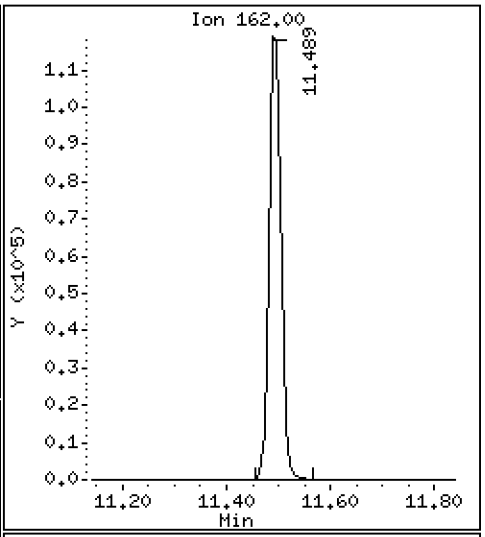
Column phase: ZB-5msi

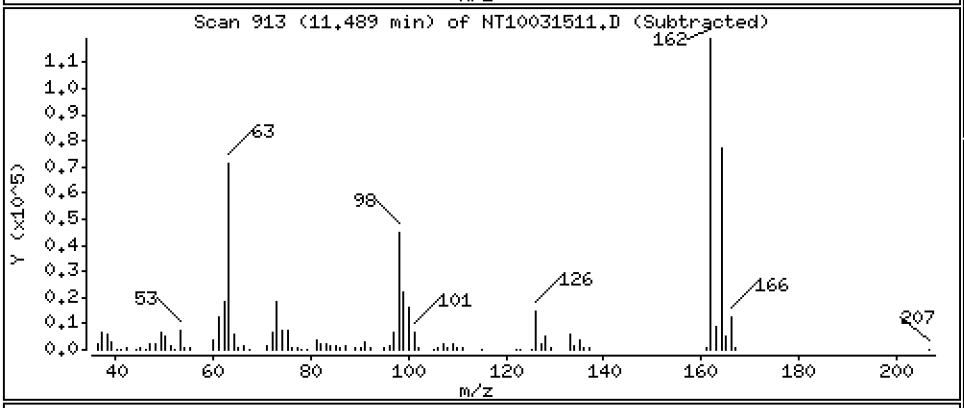
Column diameter: 0.25

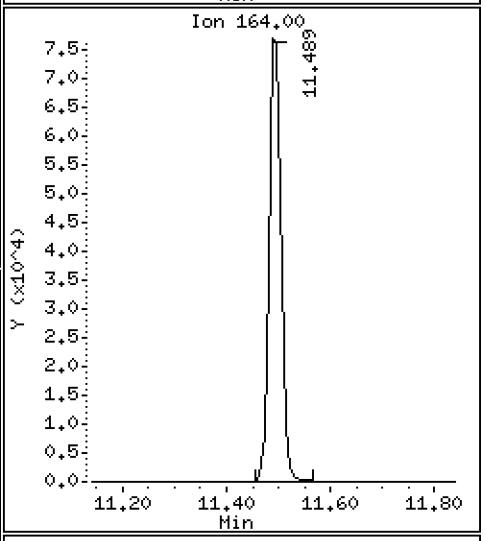
25 2,4-Dichlorophenol

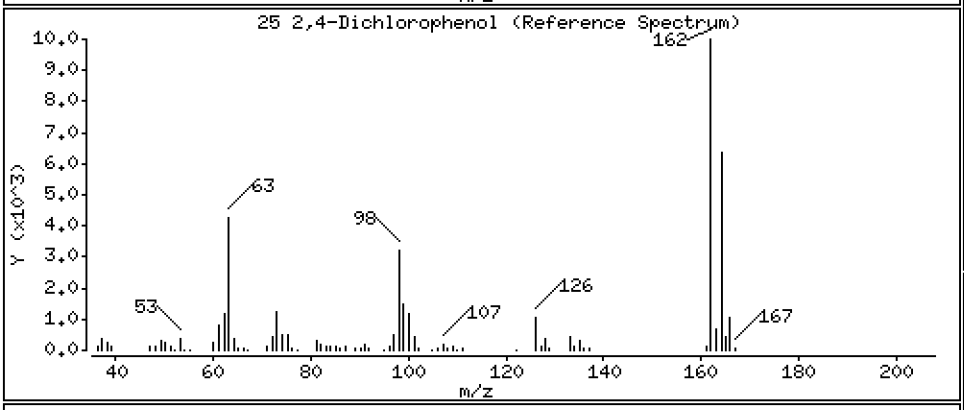
Concentration: 4.703 ug/mL

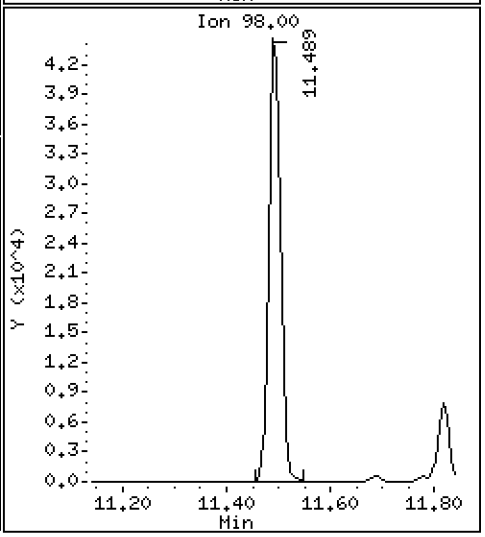


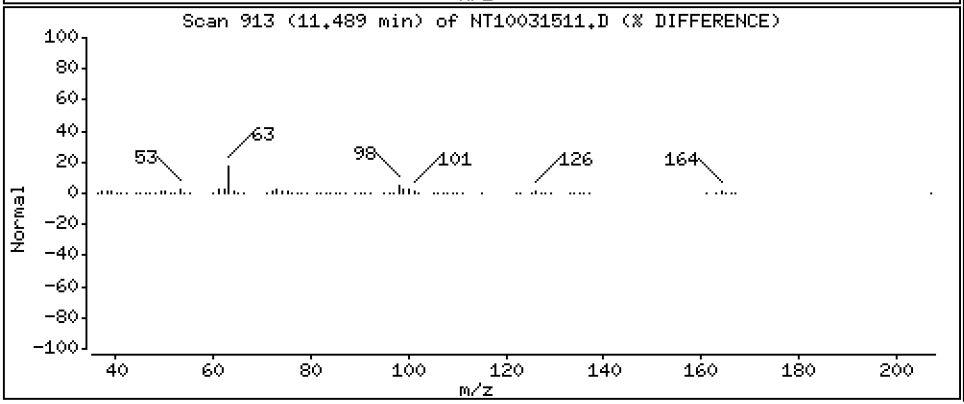












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

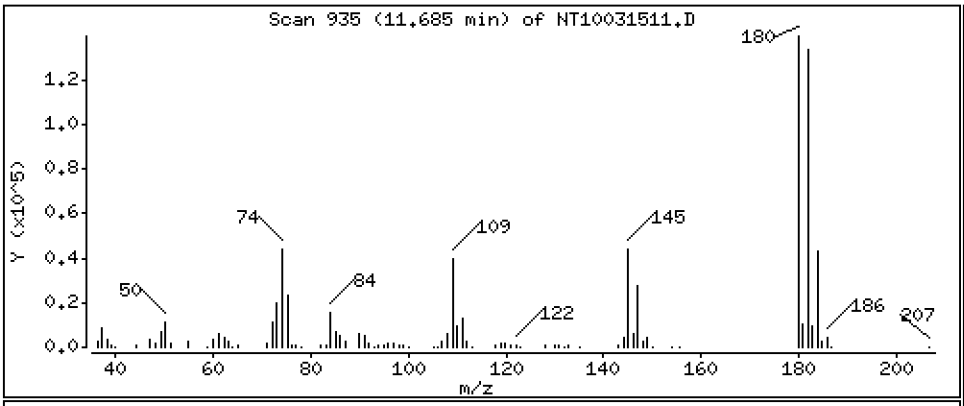
Operator: VTS

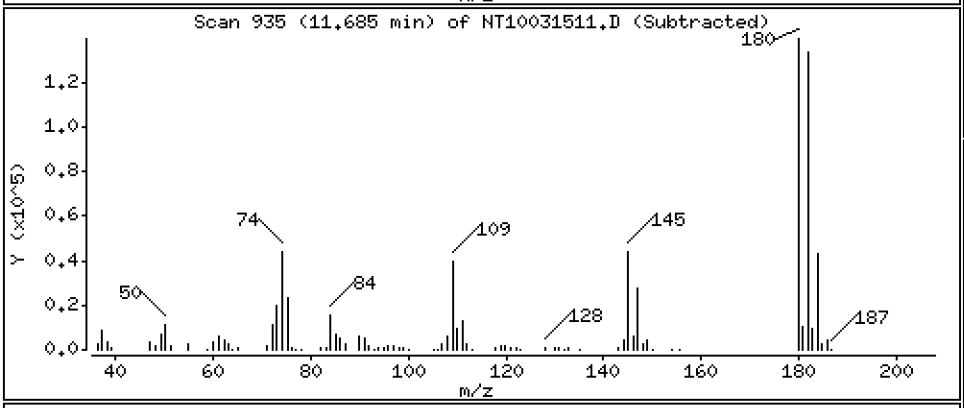
Column phase: ZB-5msi

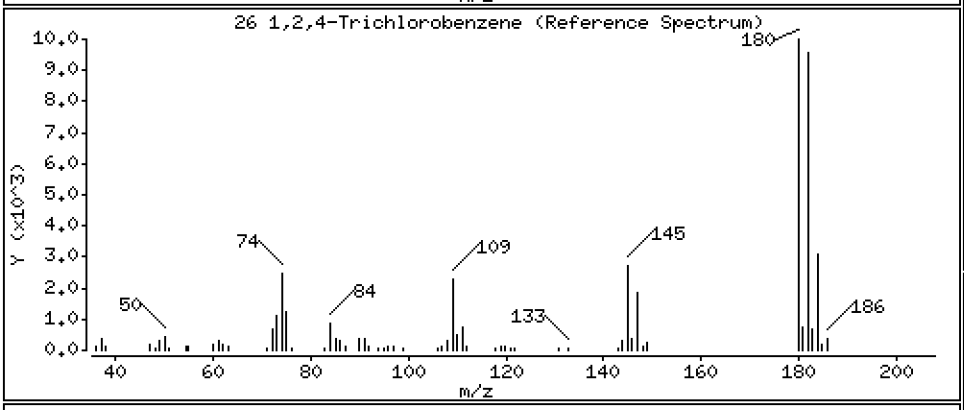
Column diameter: 0.25

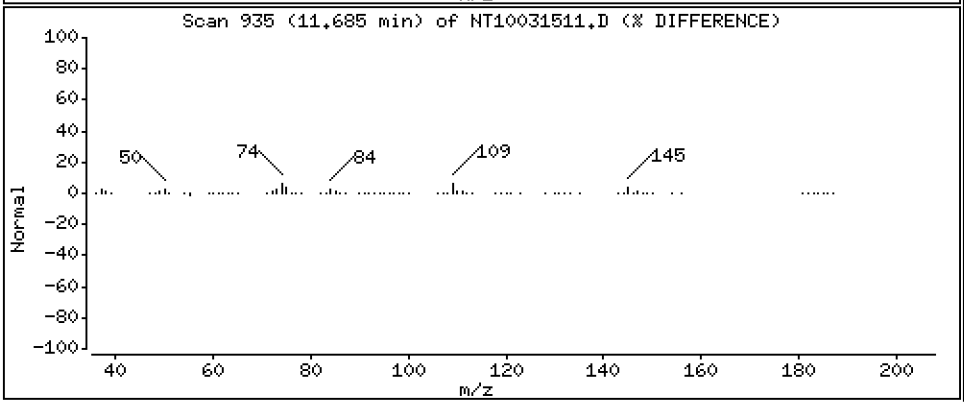
26 1,2,4-Trichlorobenzene

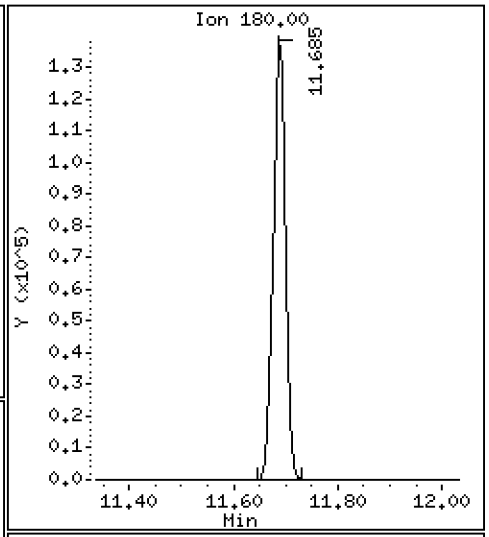
Concentration: 4.554 ug/mL

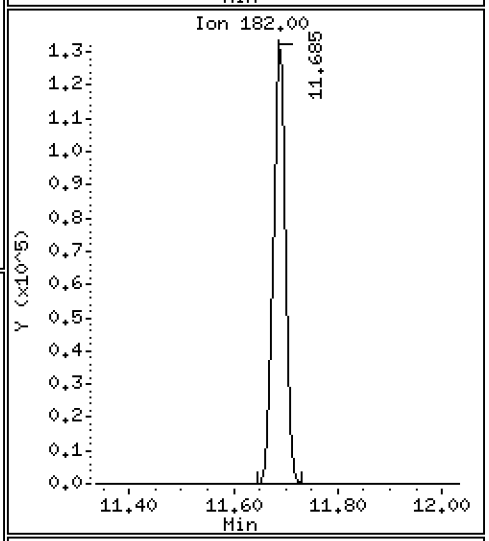


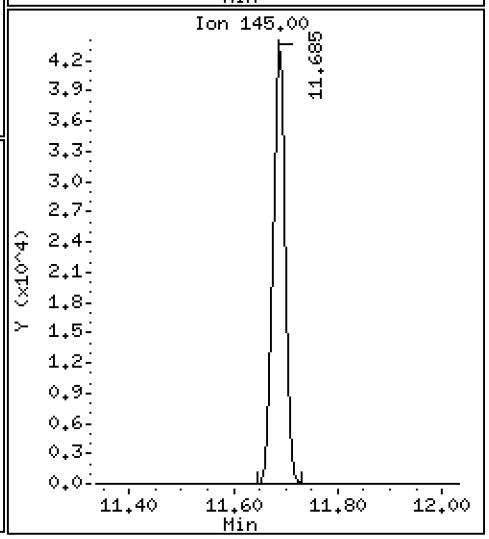












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

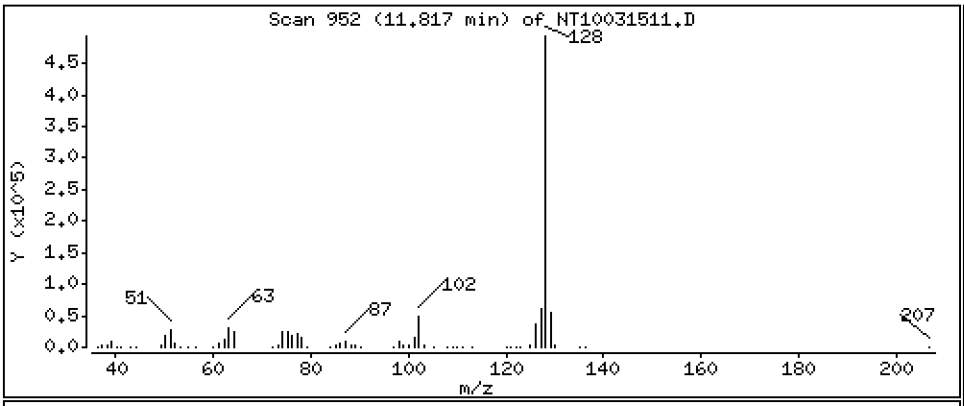
Operator: VTS

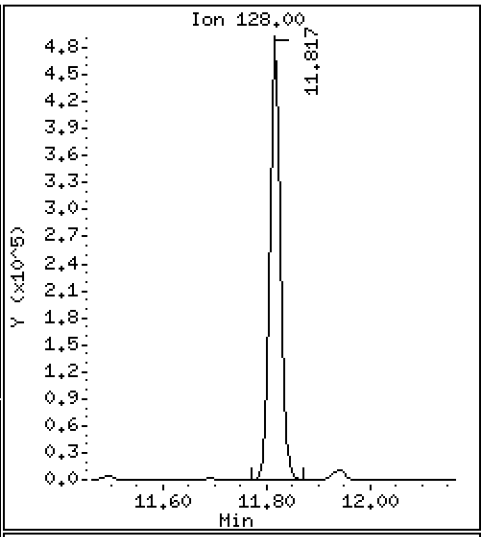
Column phase: ZB-5msi

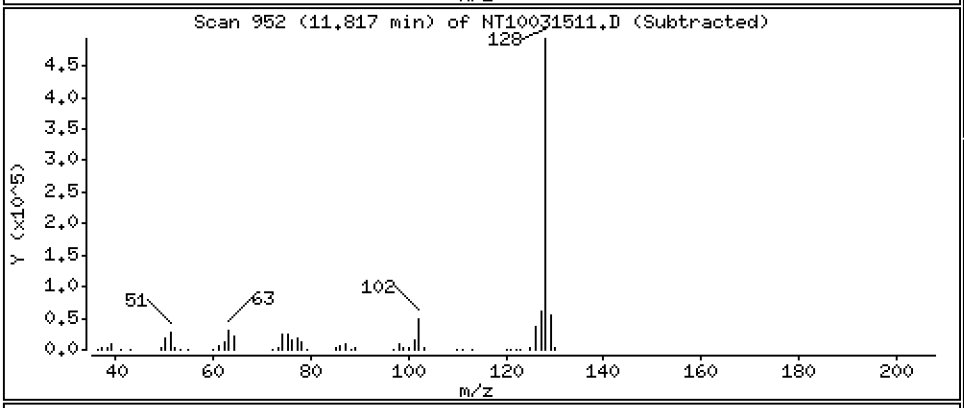
Column diameter: 0.25

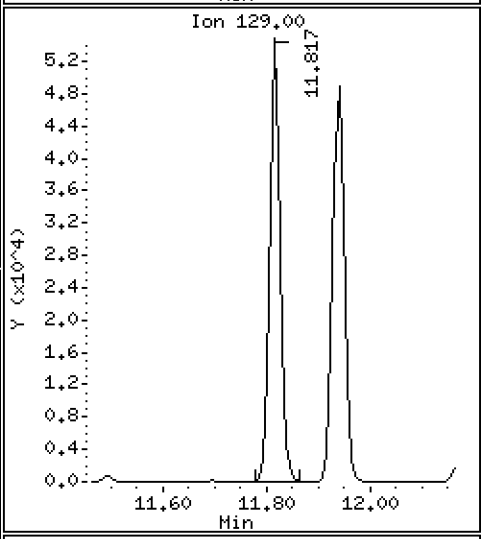
28 Naphthalene

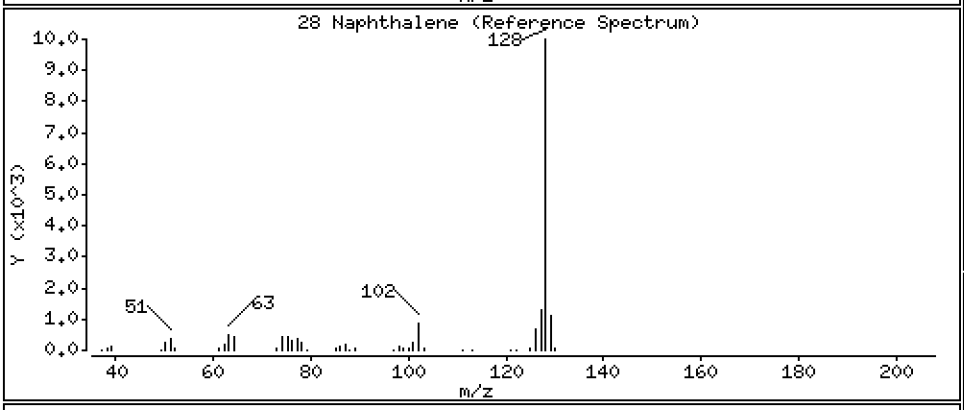
Concentration: 4.717 ug/mL

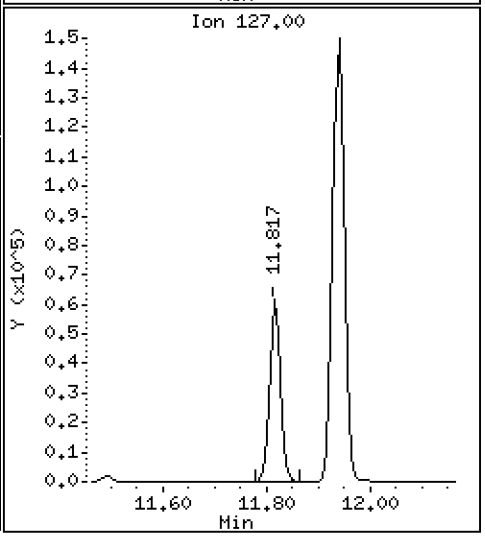


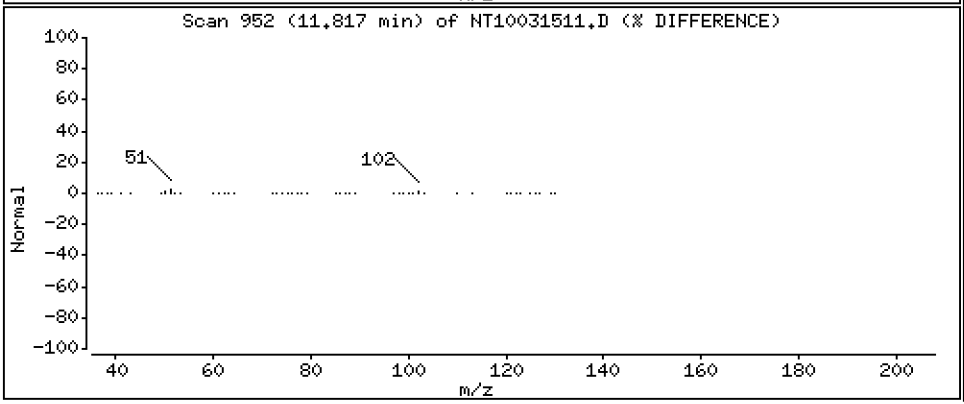












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

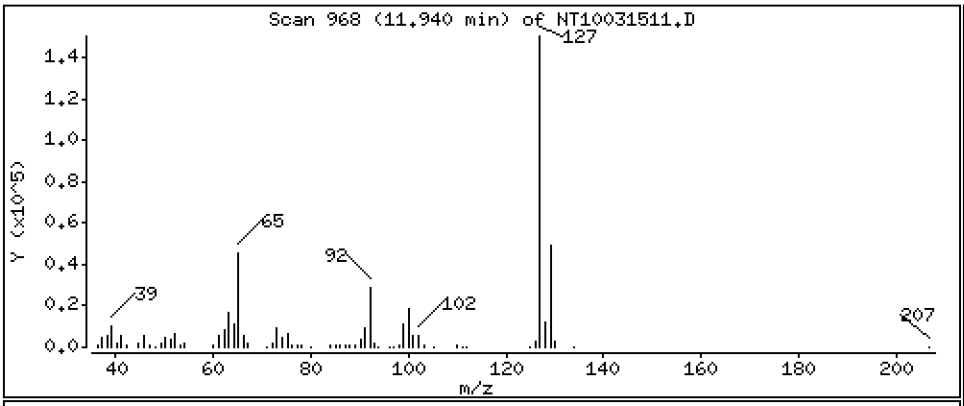
Operator: VTS

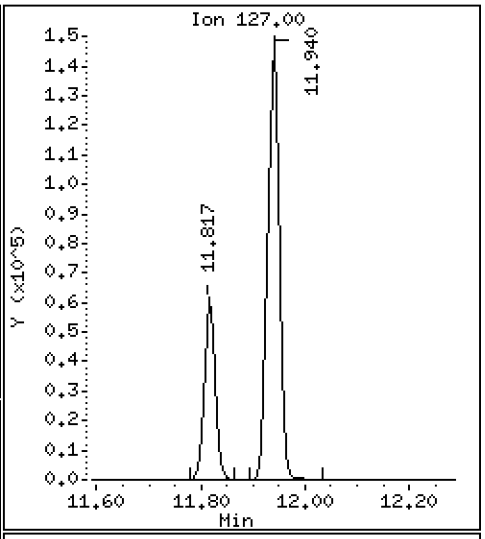
Column phase: ZB-5msi

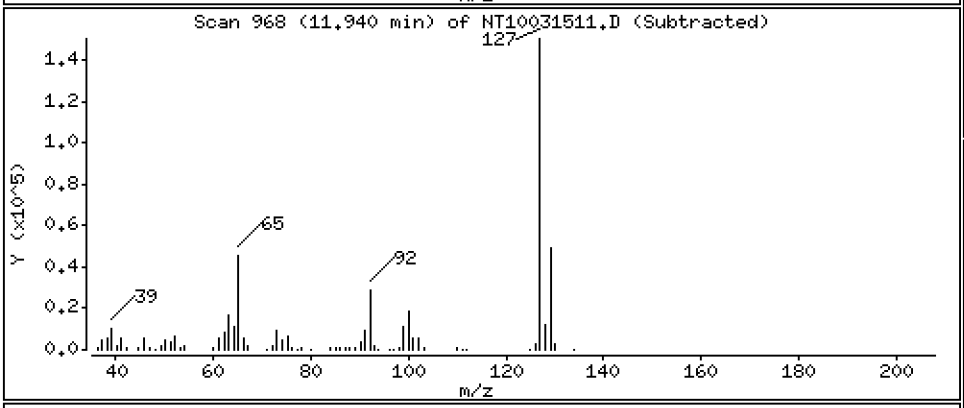
Column diameter: 0.25

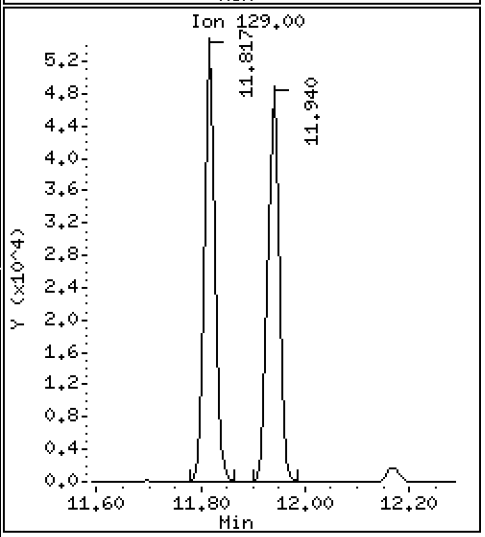
29 4-Chloroaniline

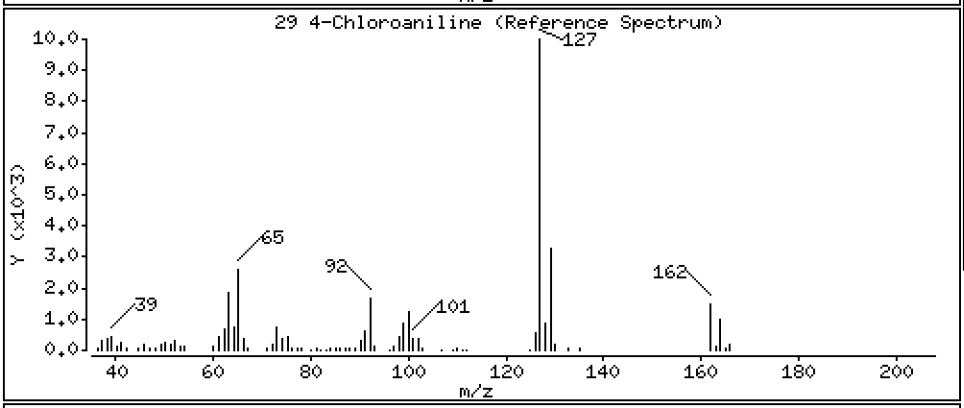
Concentration: 3.787 ug/mL

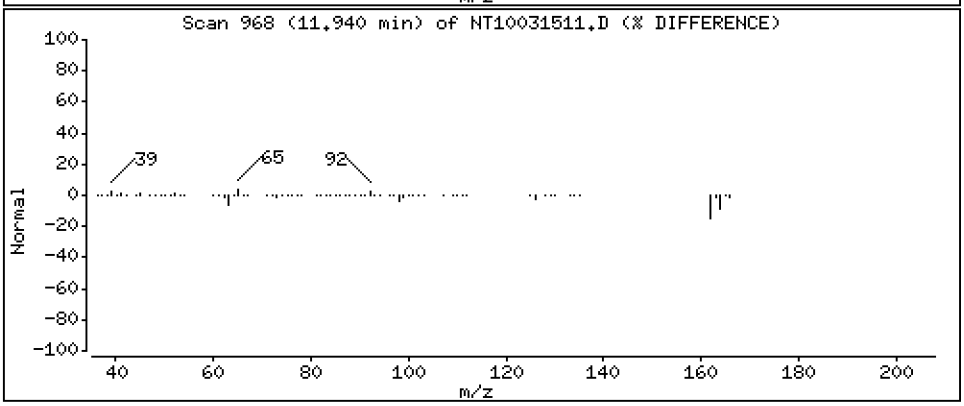












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

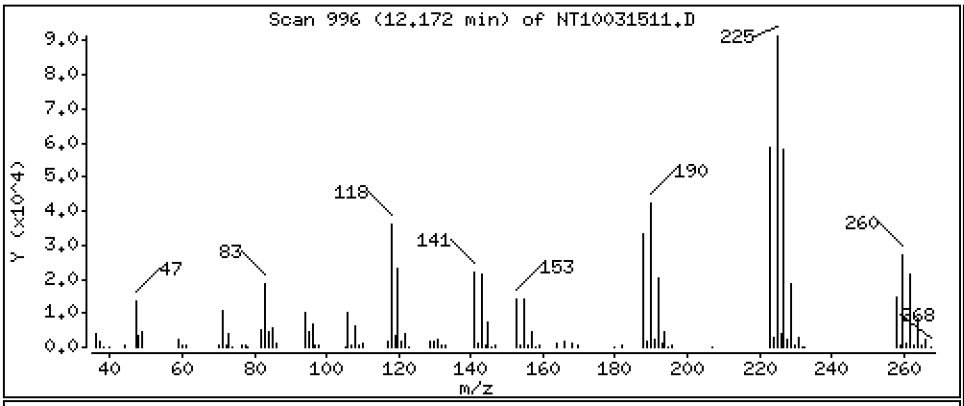
Operator: VTS

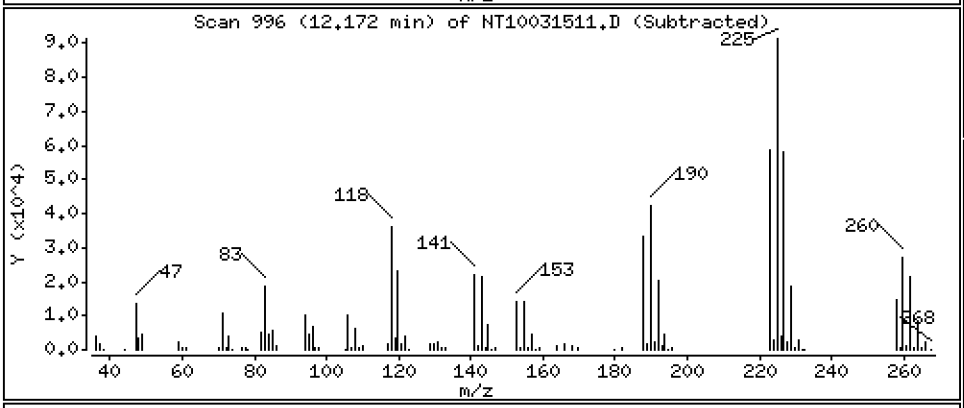
Column phase: ZB-5msi

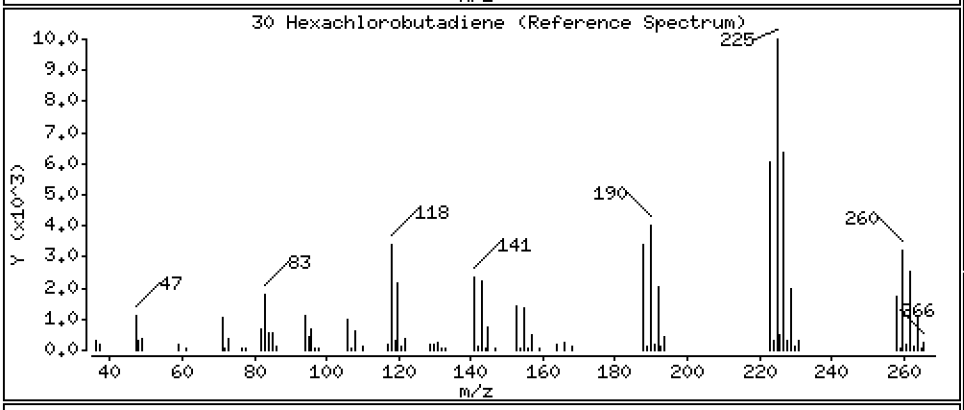
Column diameter: 0.25

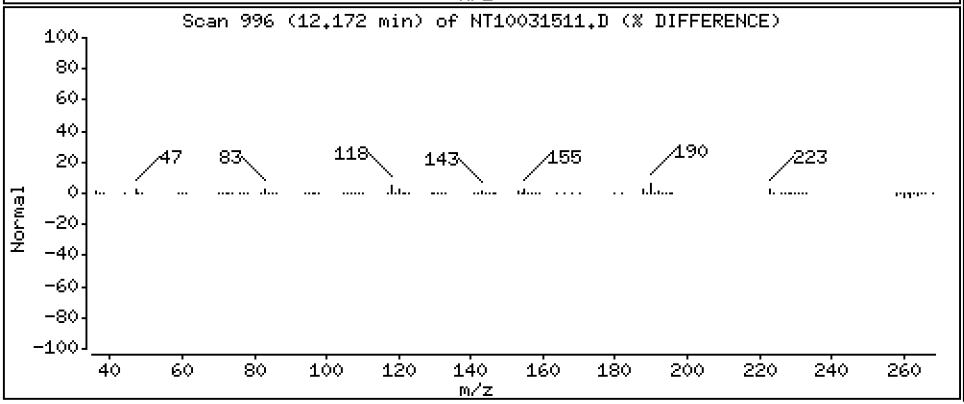
30 Hexachlorobutadiene

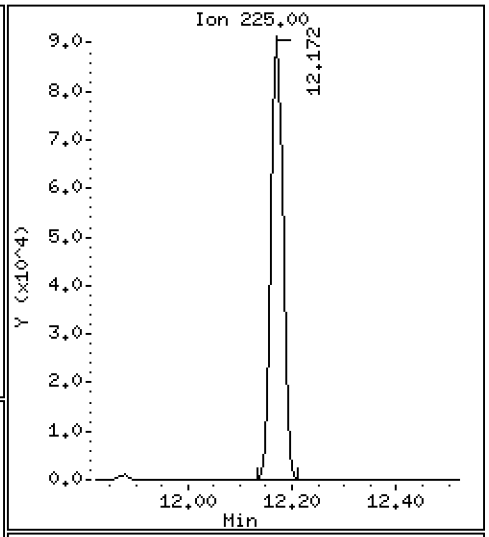
Concentration: 4.834 ug/mL

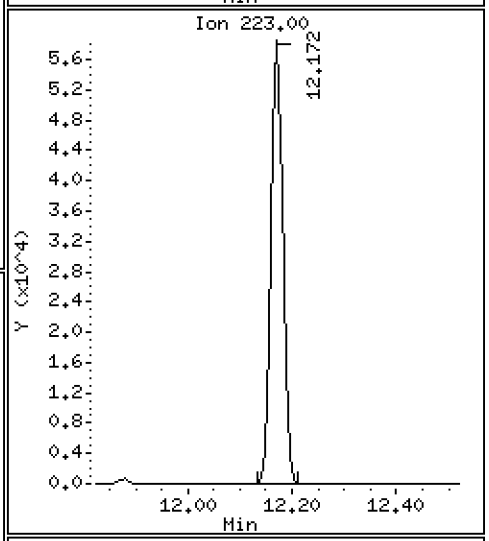


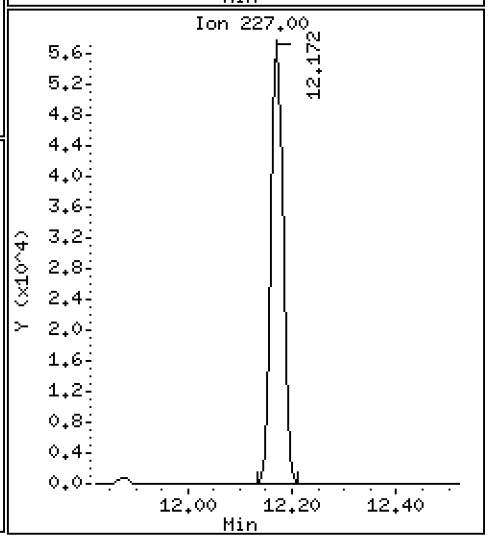












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

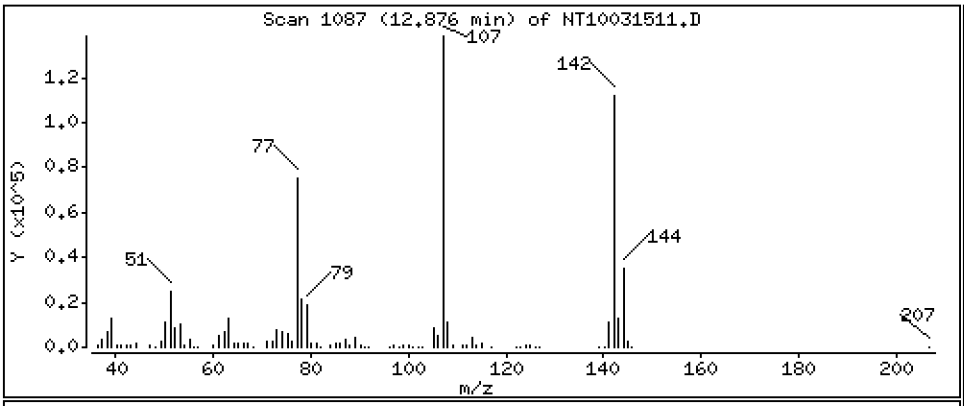
Operator: VTS

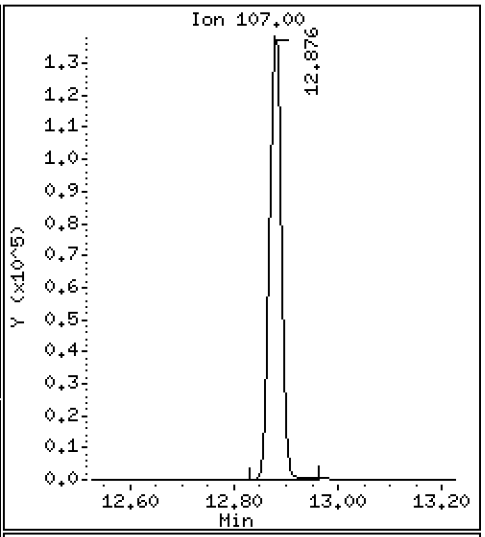
Column phase: ZB-5msi

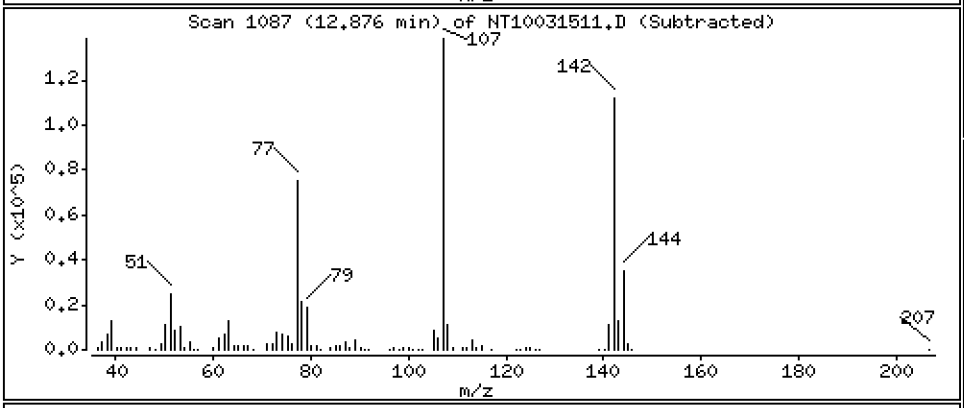
Column diameter: 0.25

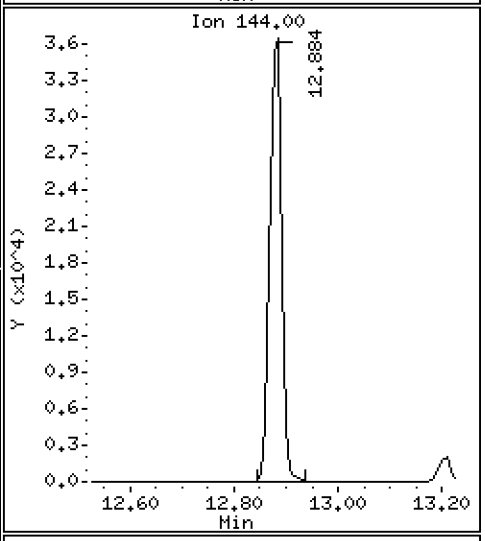
31 4-Chloro-3-methylphenol

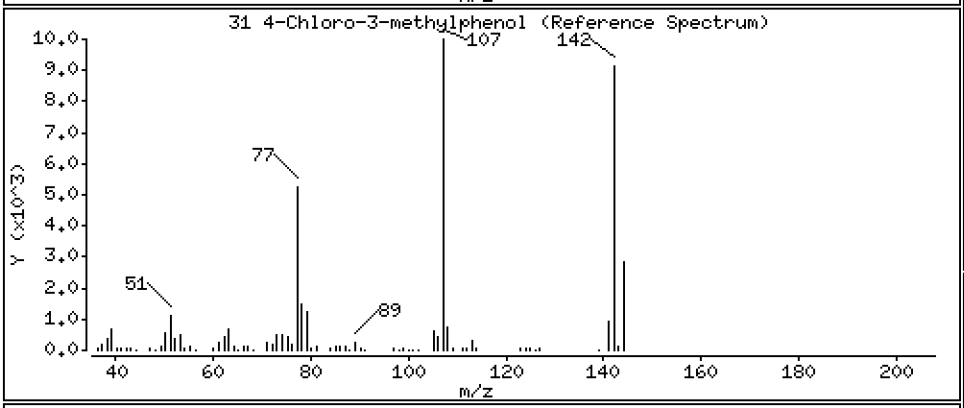
Concentration: 4.640 ug/mL

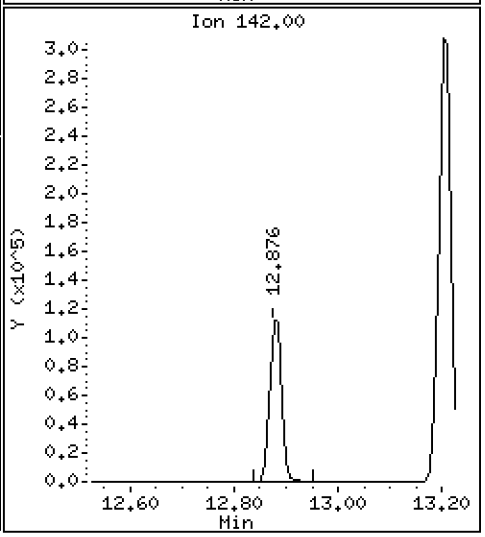


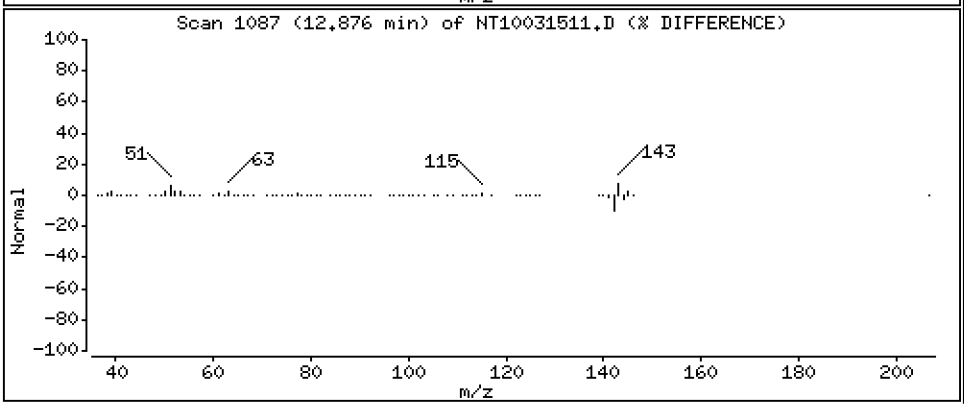












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

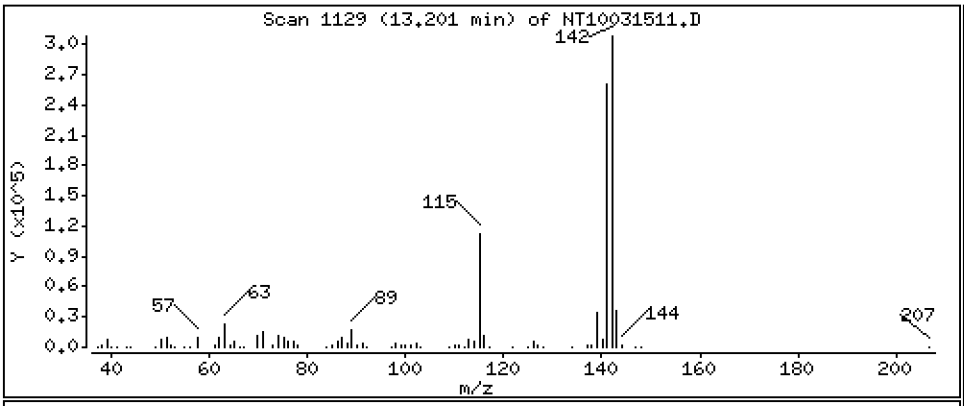
Operator: VTS

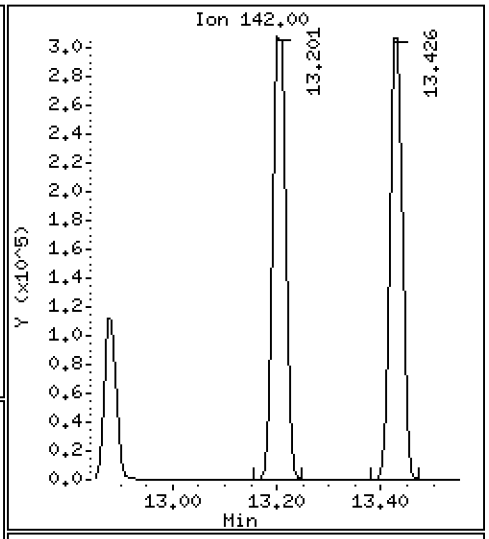
Column phase: ZB-5msi

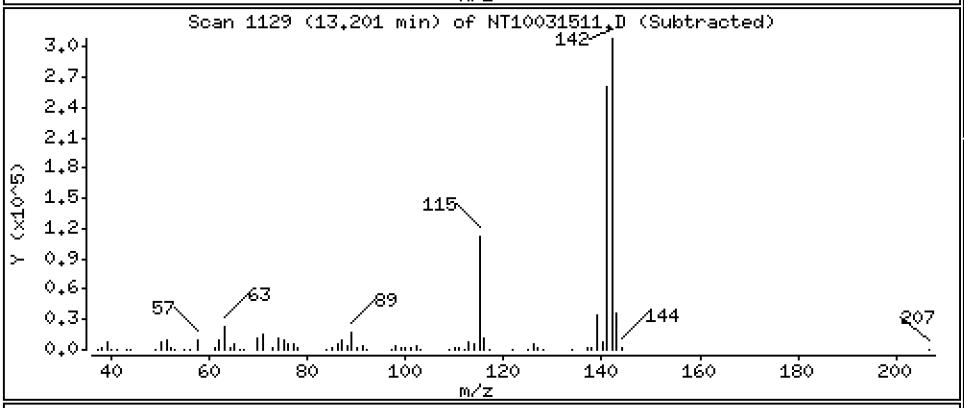
Column diameter: 0.25

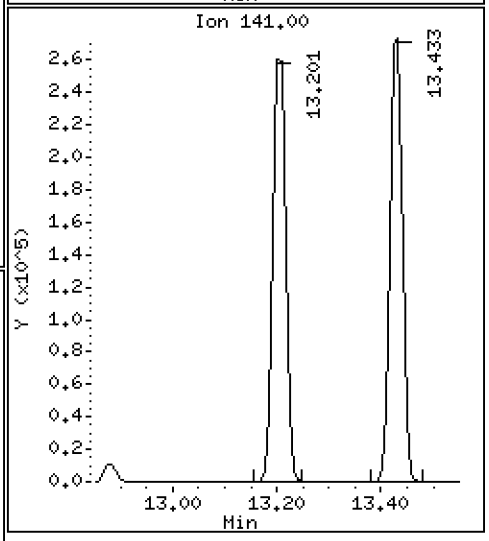
32 2-Methylnaphthalene

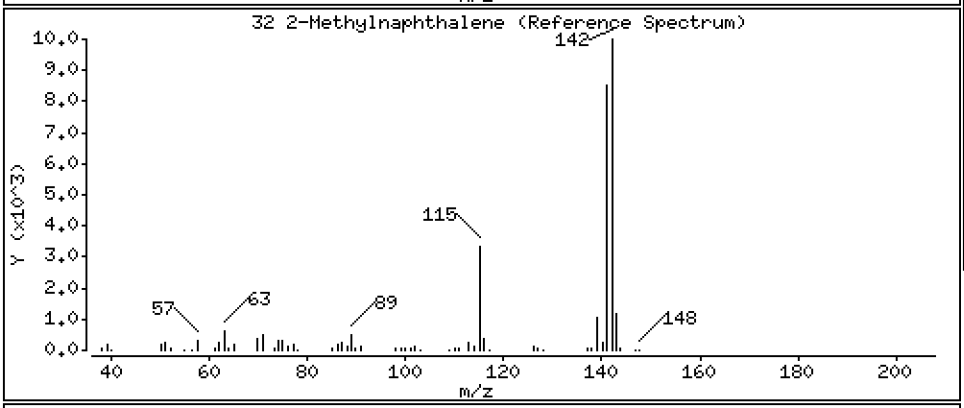
Concentration: 4.596 ug/mL

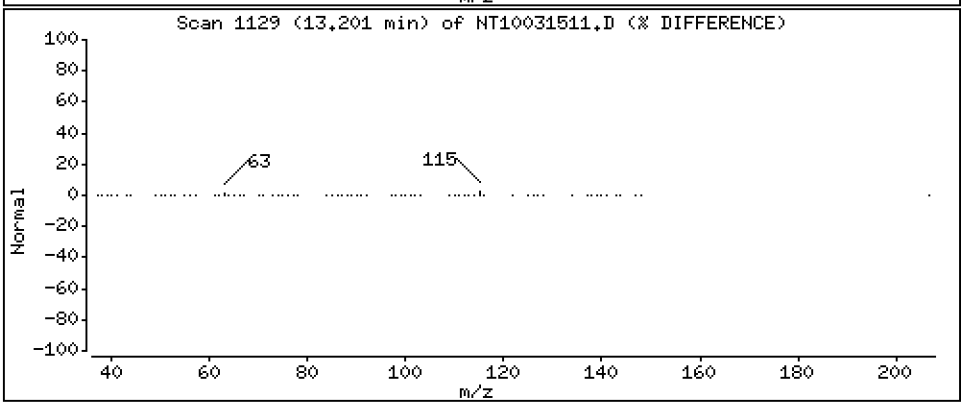












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

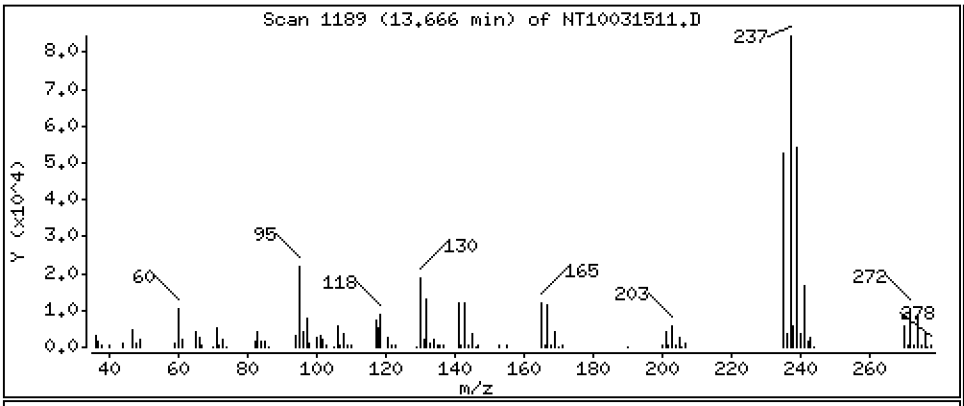
Operator: VTS

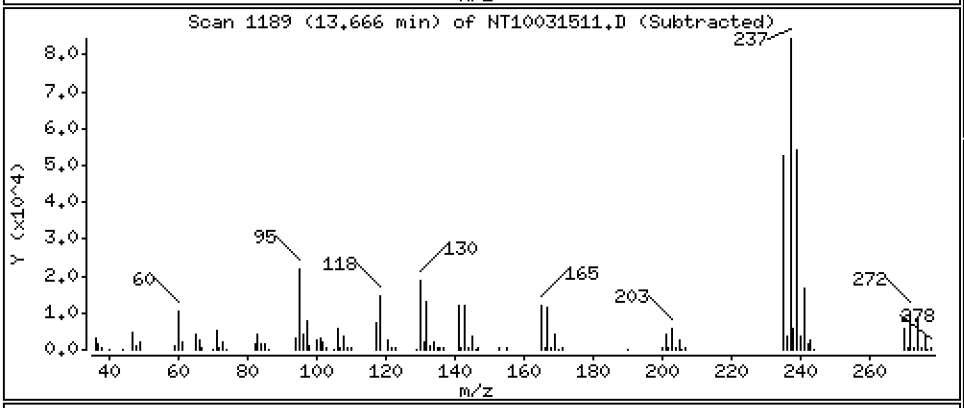
Column phase: ZB-5msi

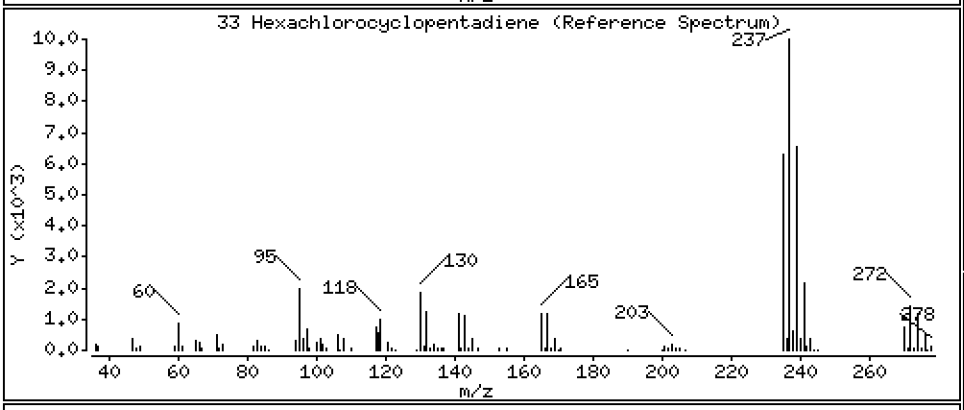
Column diameter: 0.25

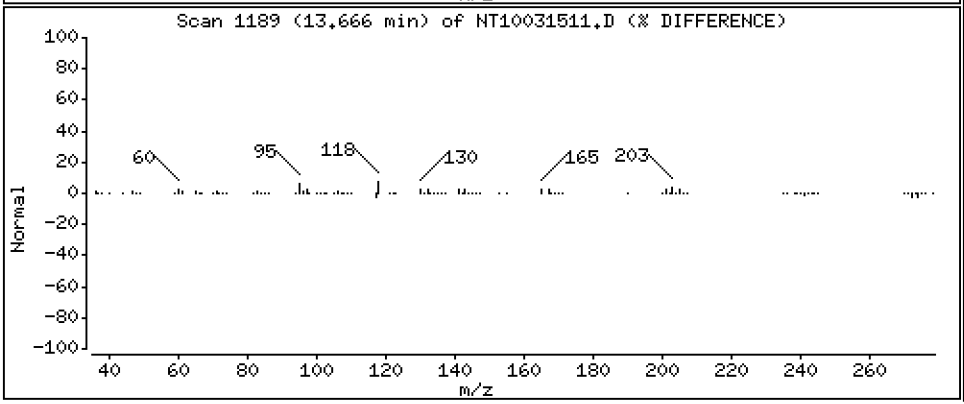
33 Hexachlorocyclopentadiene

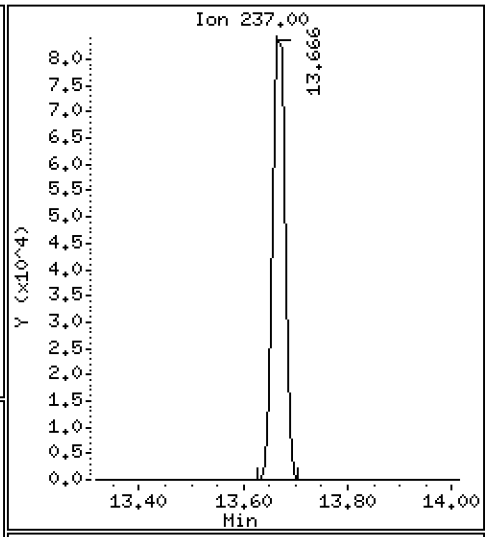
Concentration: 4.729 ug/mL

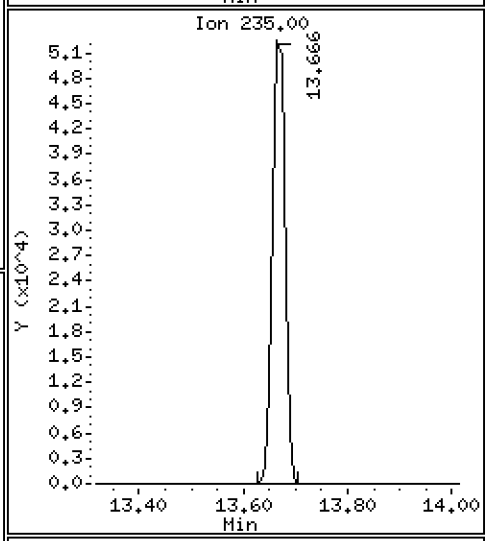


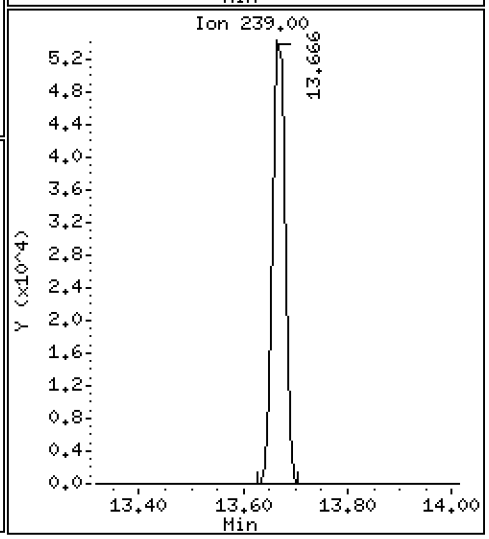












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

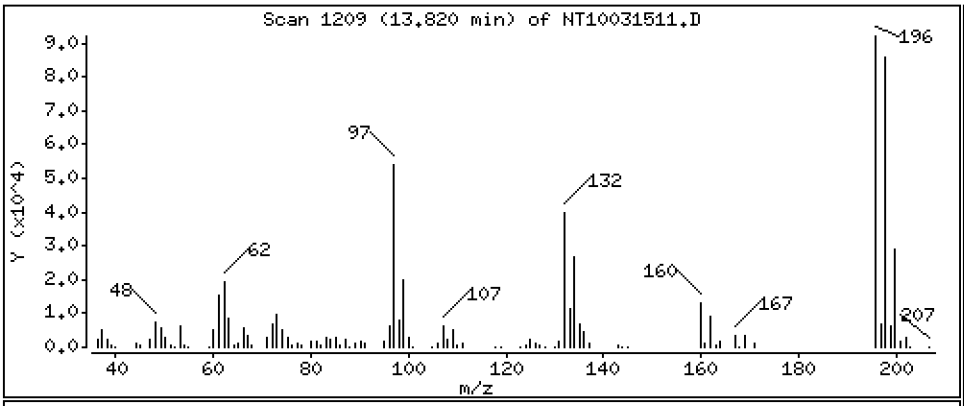
Operator: VTS

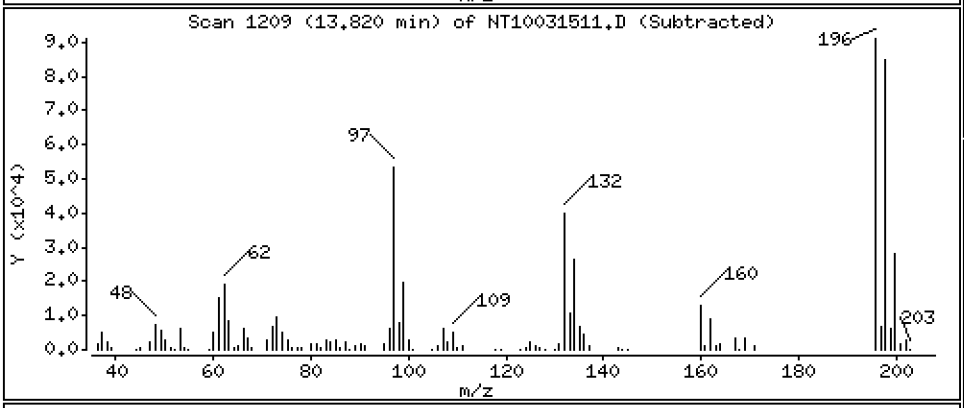
Column phase: ZB-5msi

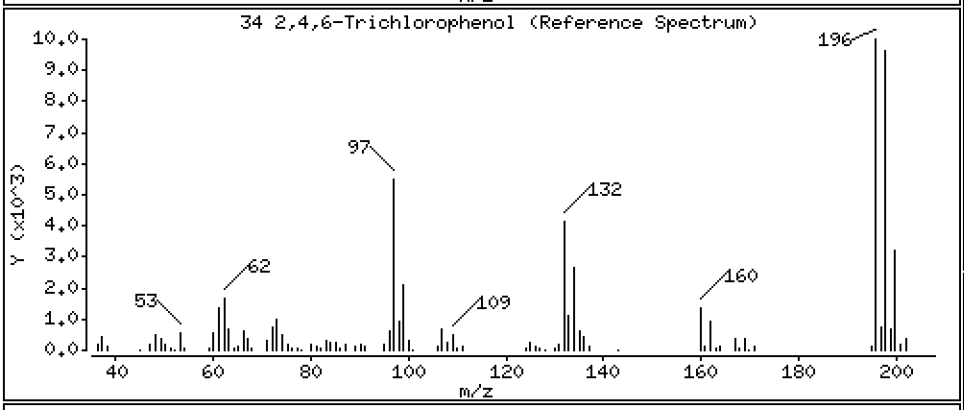
Column diameter: 0.25

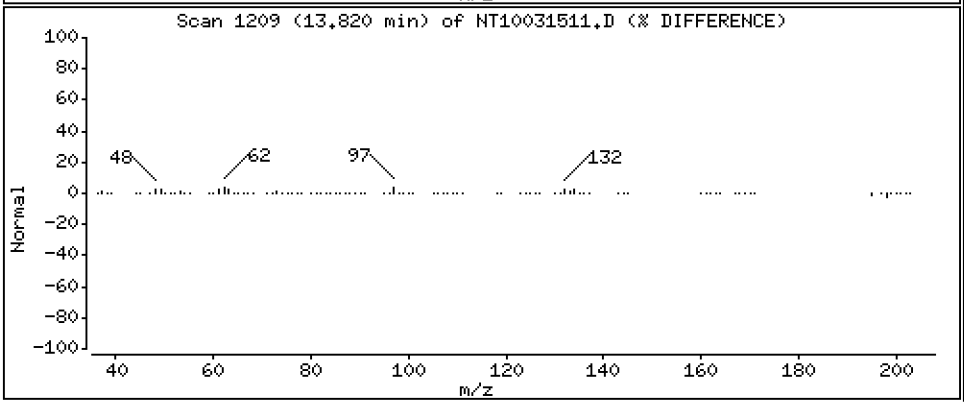
34 2,4,6-Trichlorophenol

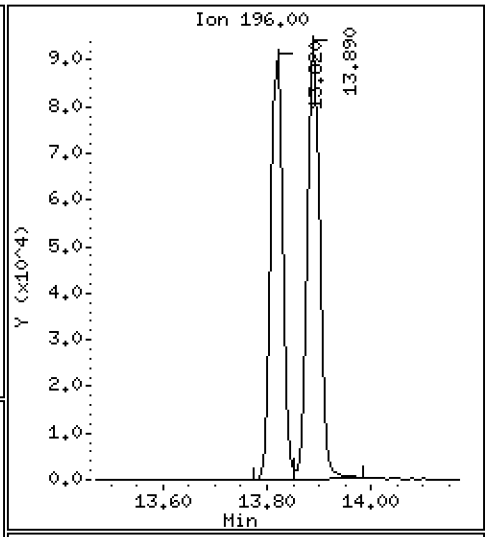
Concentration: 4.596 ug/mL

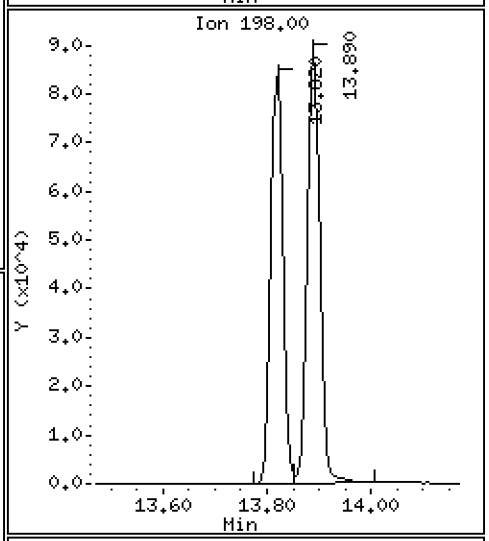


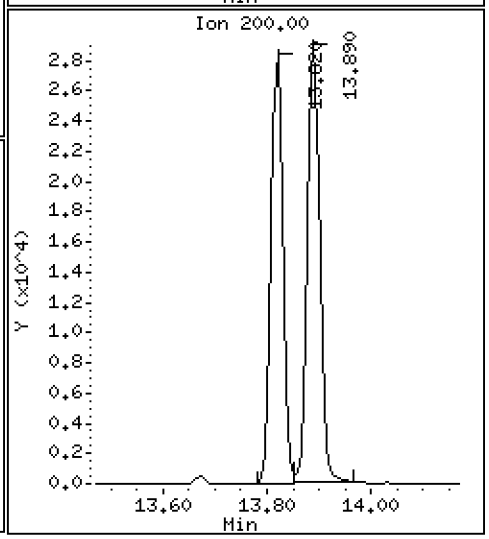












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

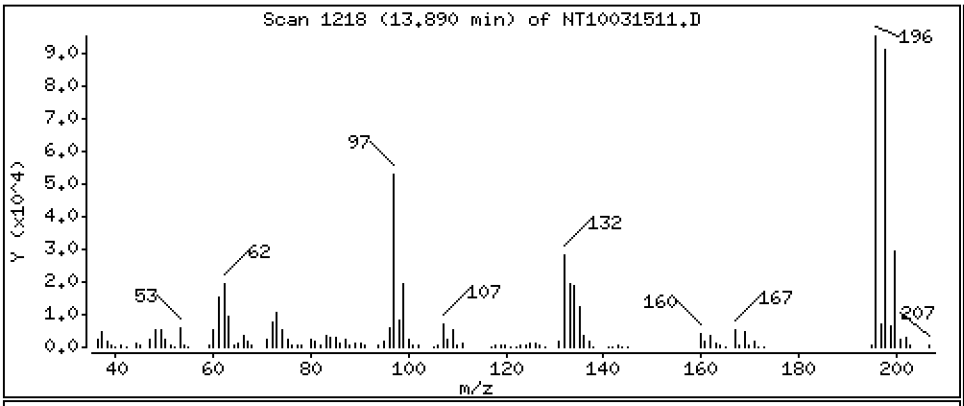
Operator: VTS

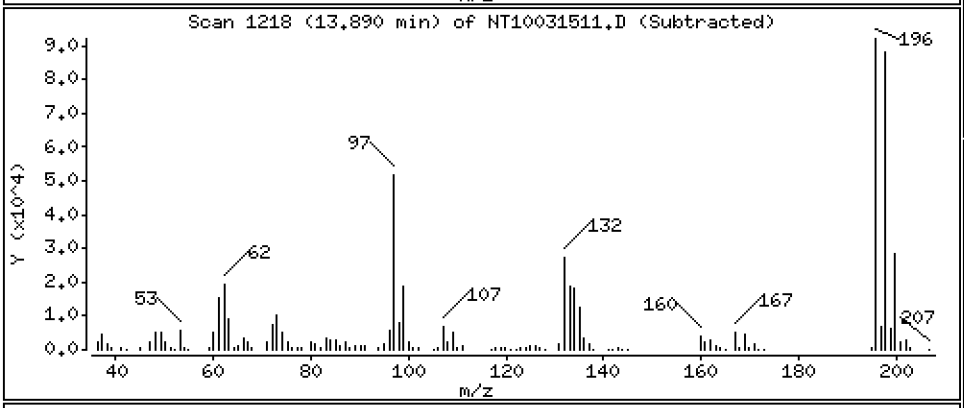
Column phase: ZB-5msi

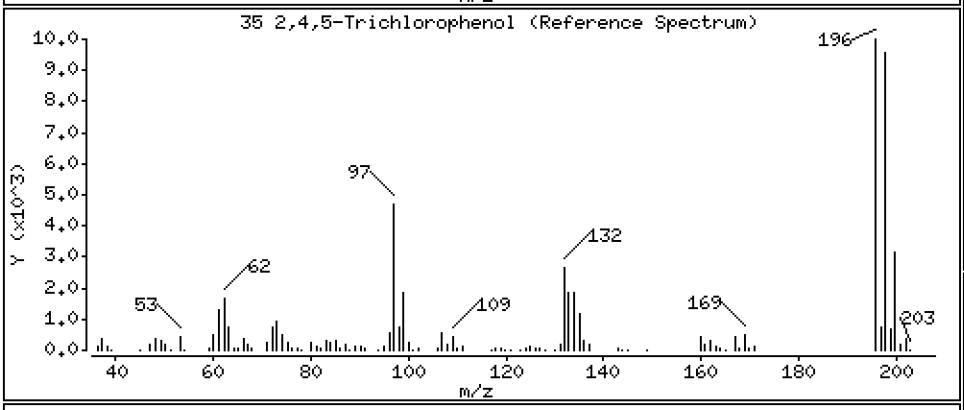
Column diameter: 0.25

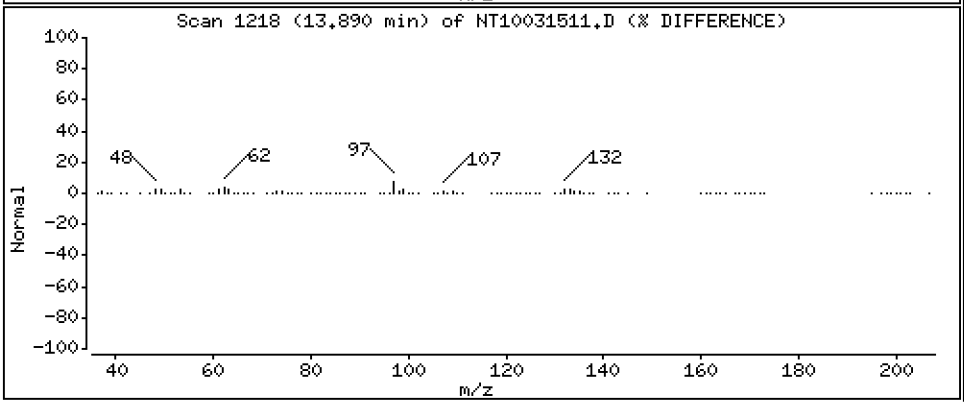
35 2,4,5-Trichlorophenol

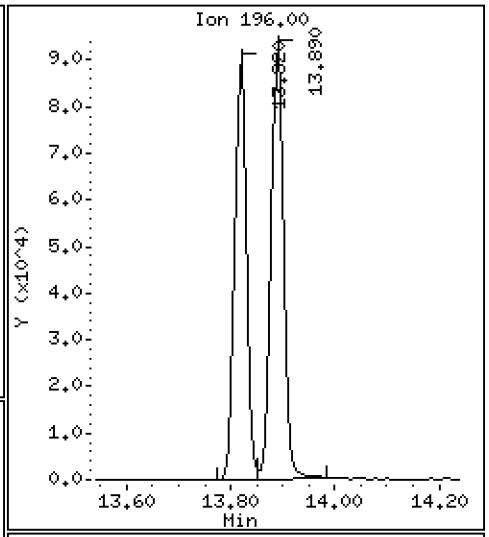
Concentration: 4.409 ug/mL

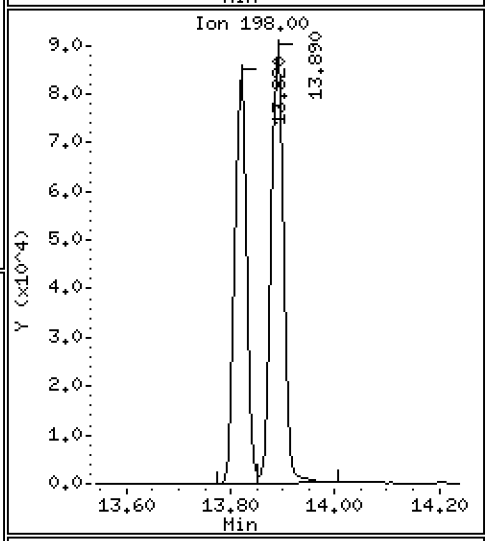


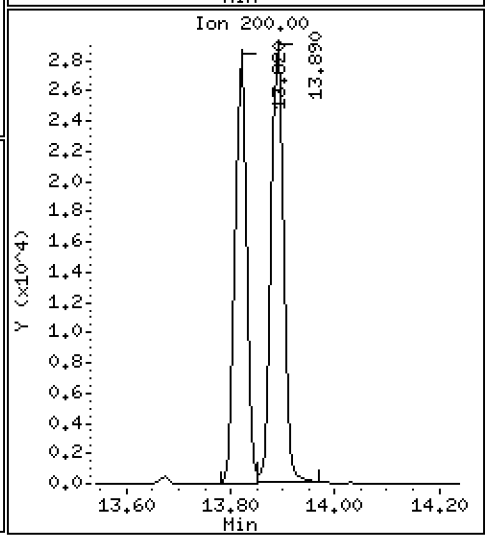












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

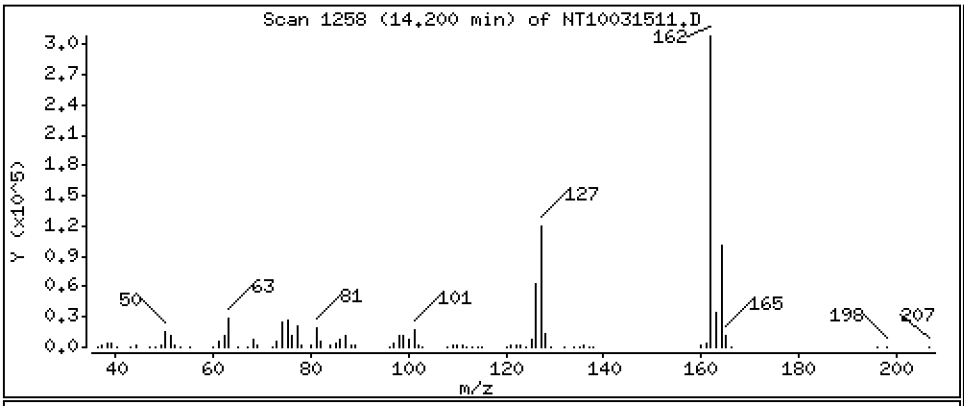
Operator: VTS

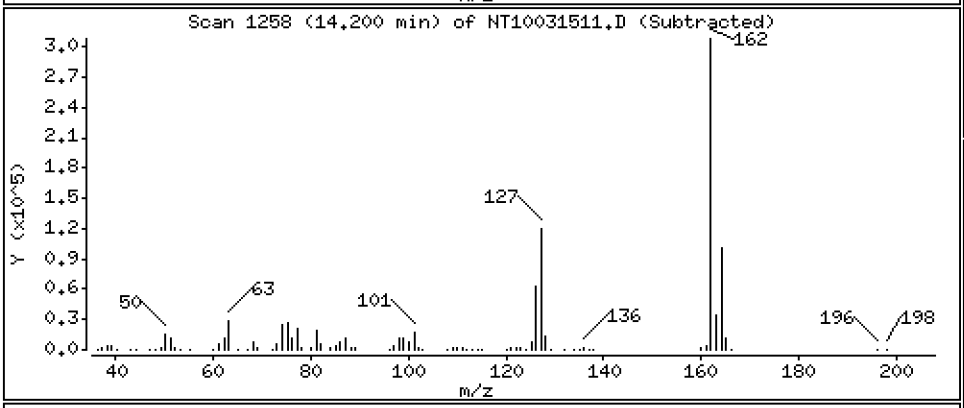
Column phase: ZB-5msi

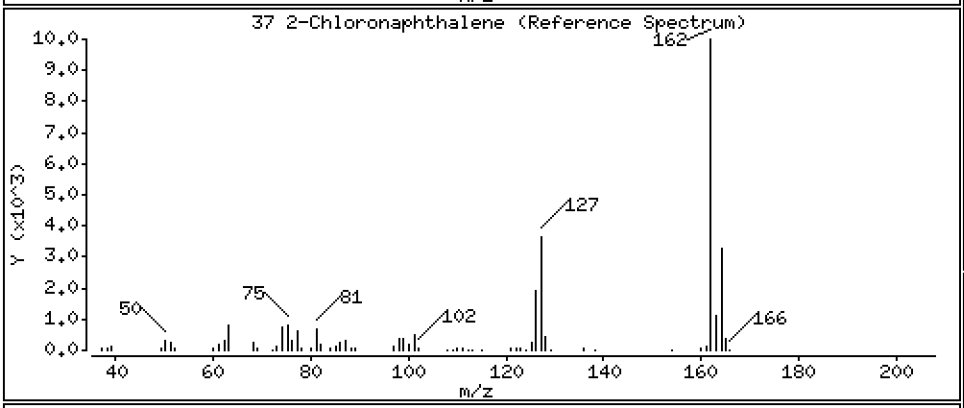
Column diameter: 0.25

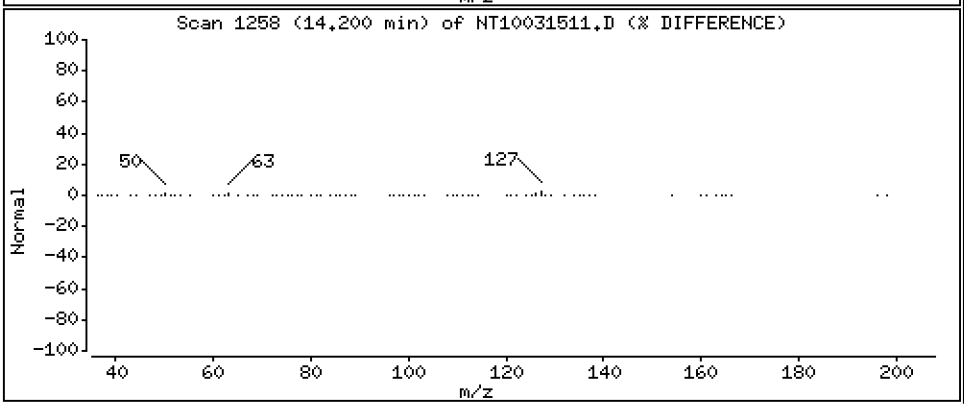
37 2-Chloronaphthalene

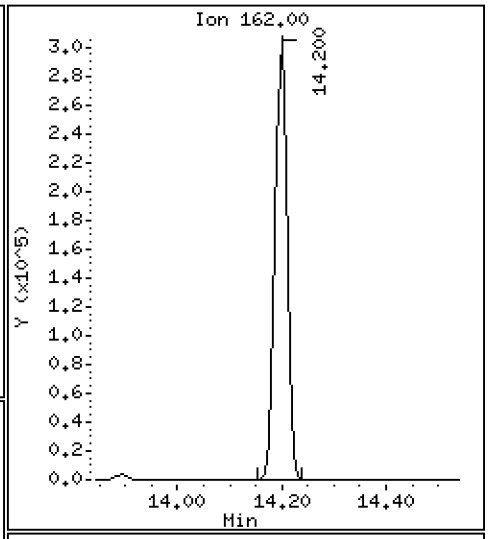
Concentration: 4.796 ug/mL

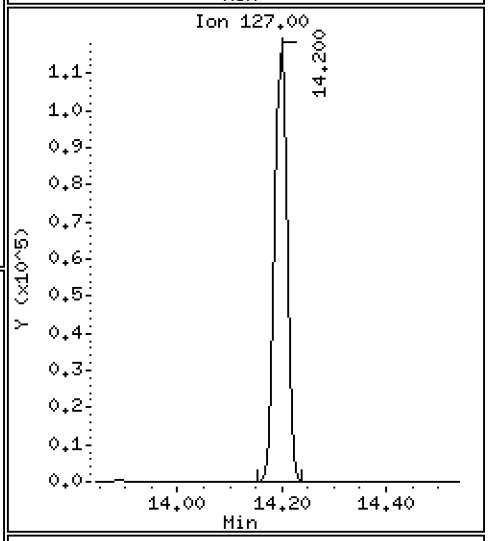


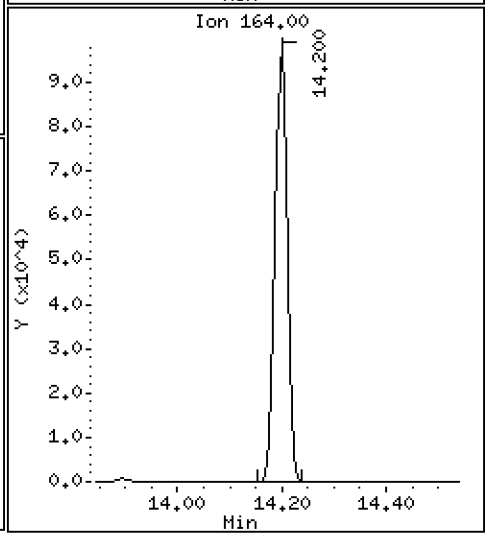












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

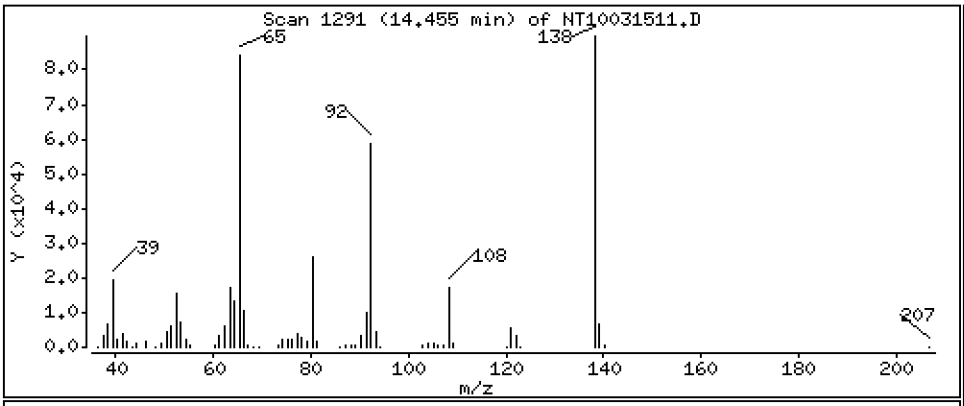
Operator: VTS

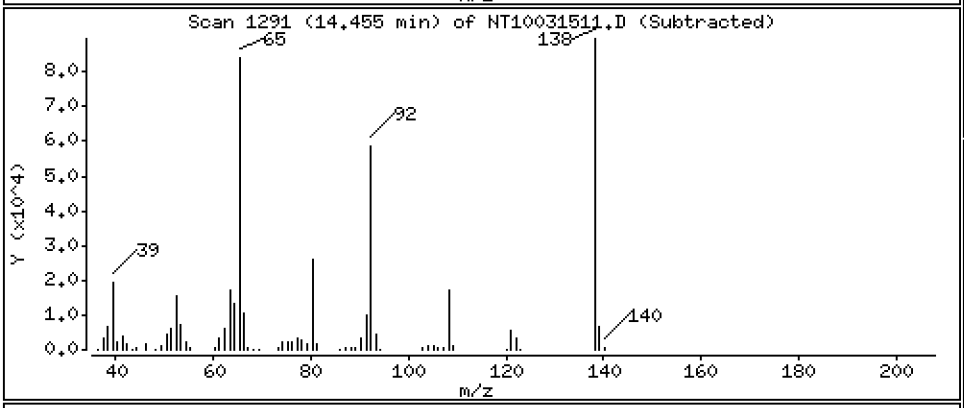
Column phase: ZB-5msi

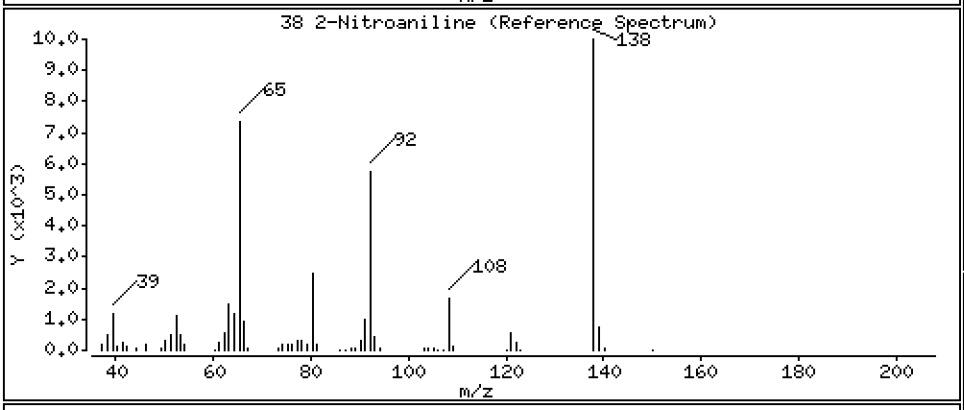
Column diameter: 0.25

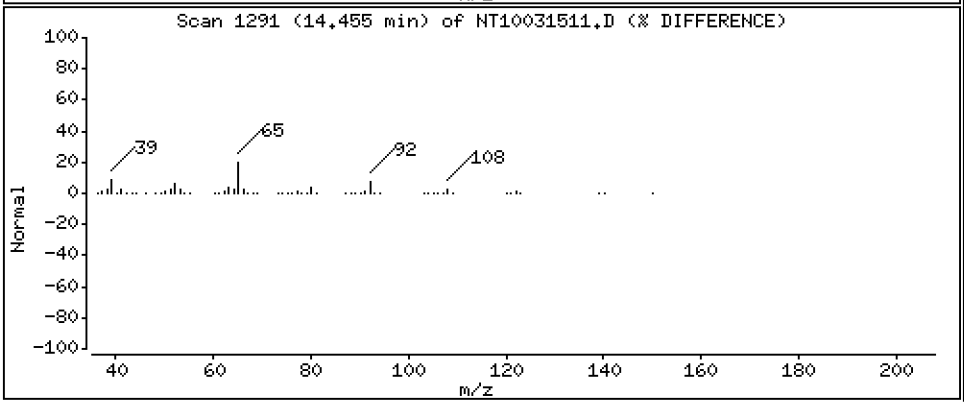
38 2-Nitroaniline

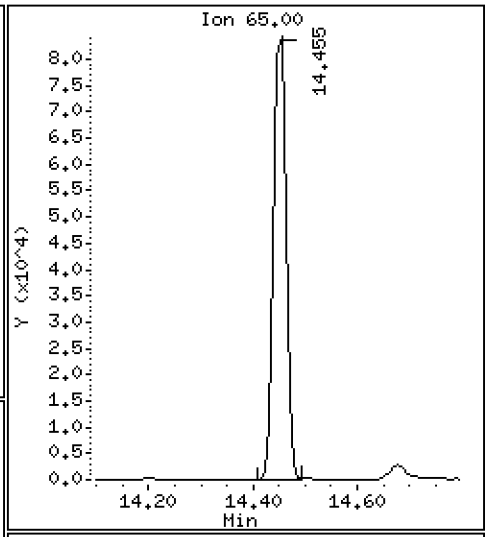
Concentration: 4.911 ug/mL

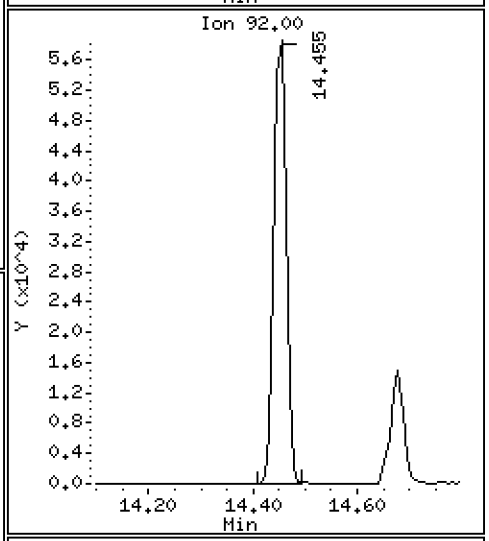


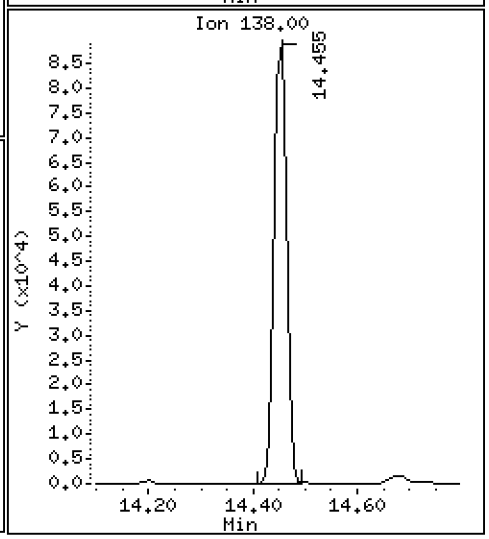












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

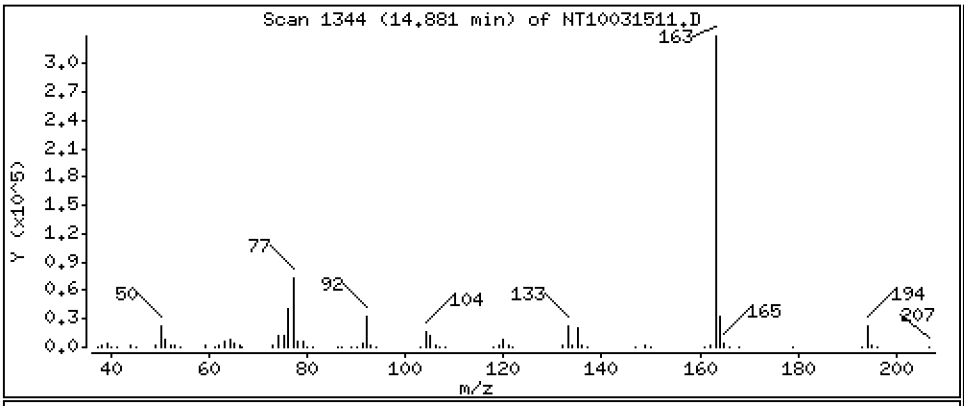
Operator: VTS

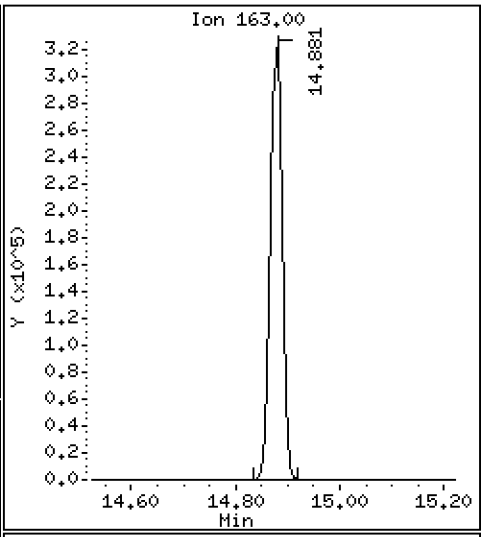
Column phase: ZB-5msi

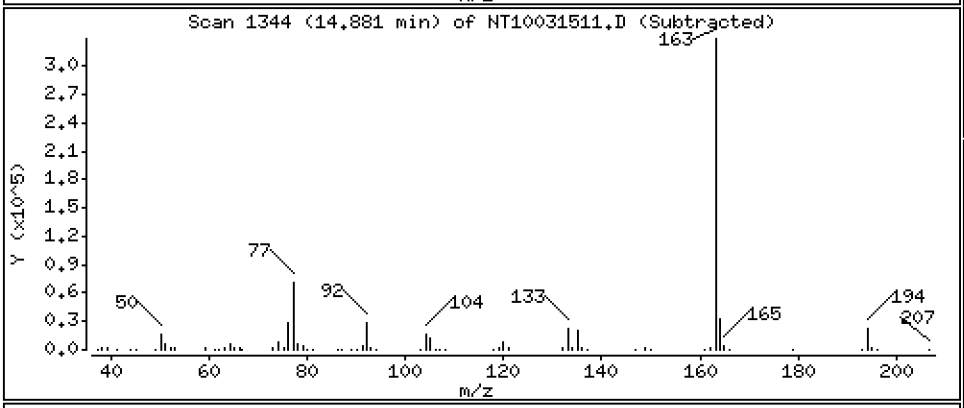
Column diameter: 0.25

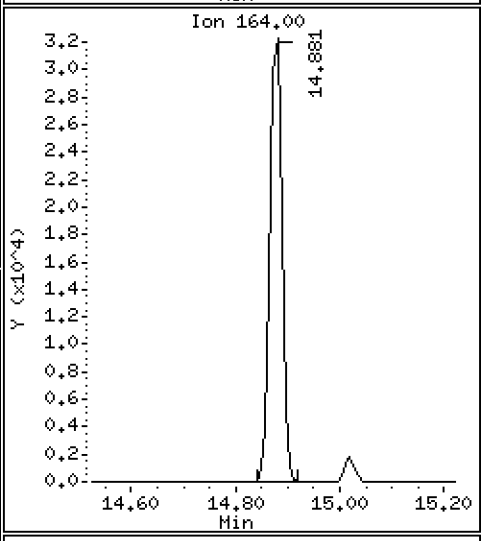
39 Dimethylphthalate

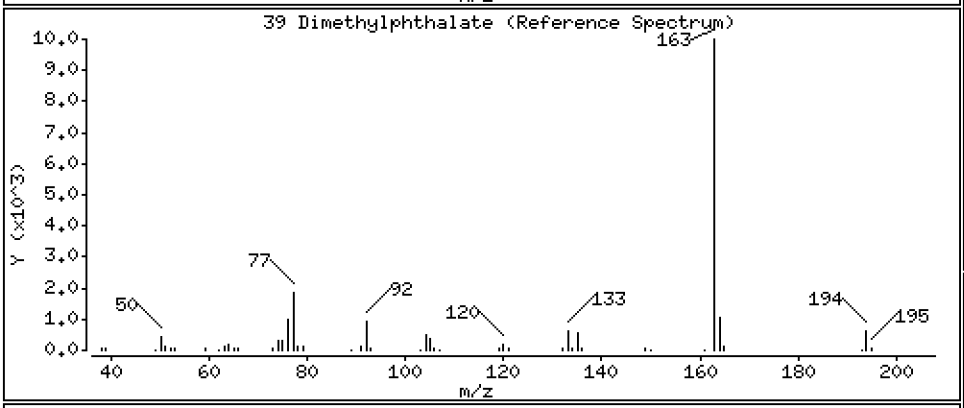
Concentration: 4.937 ug/mL

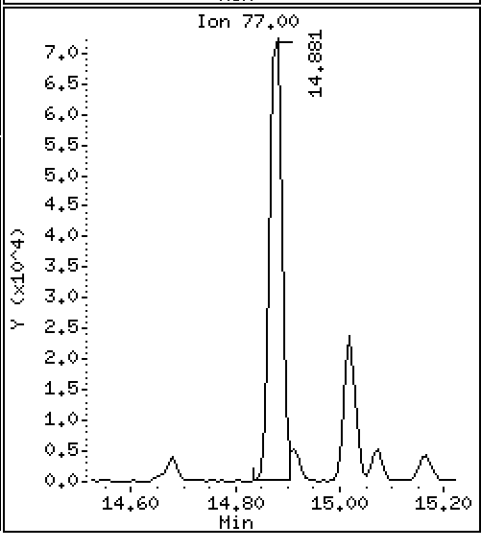


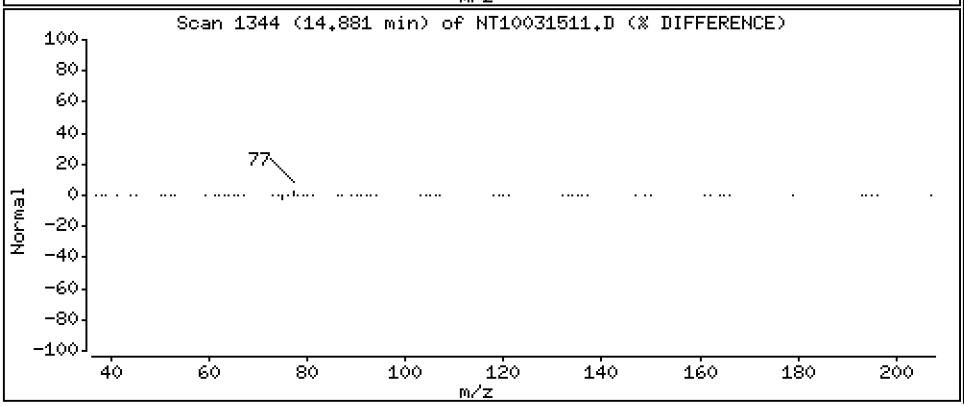












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

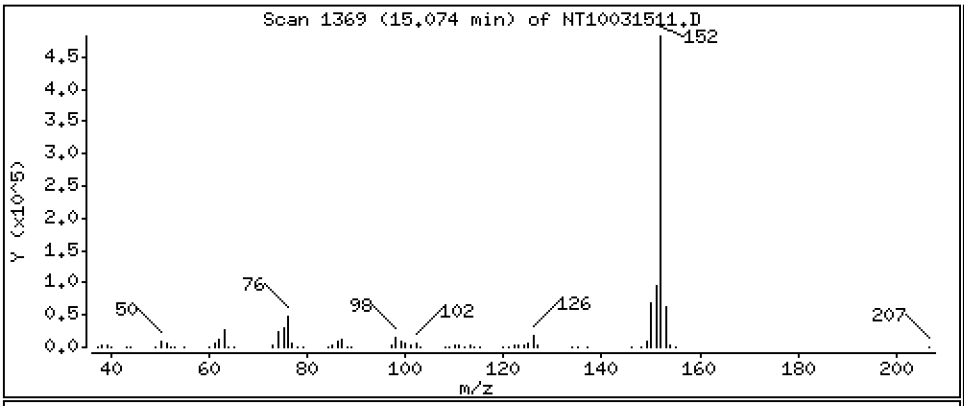
Operator: VTS

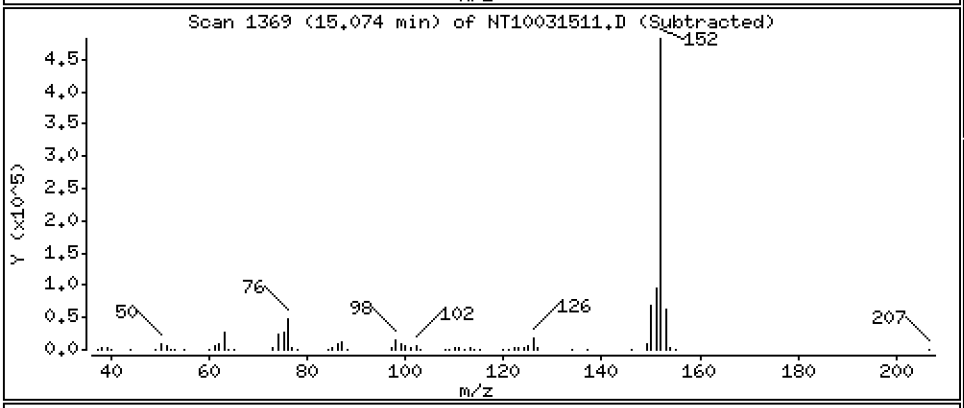
Column phase: ZB-5msi

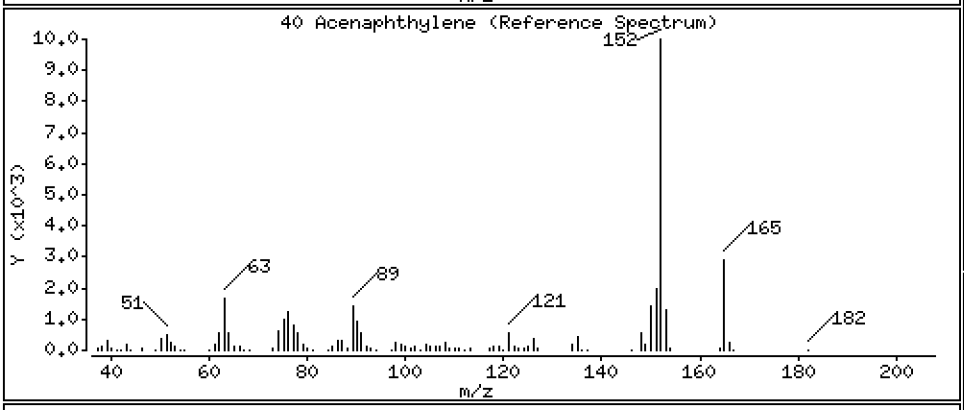
Column diameter: 0.25

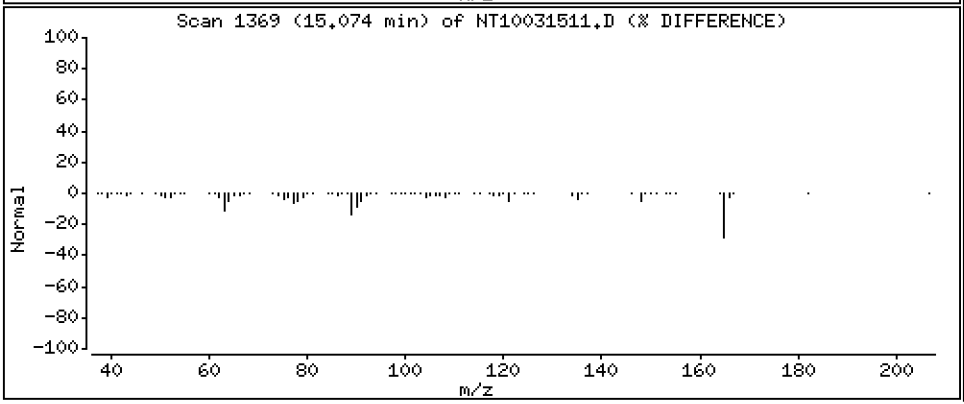
40 Acenaphthylene

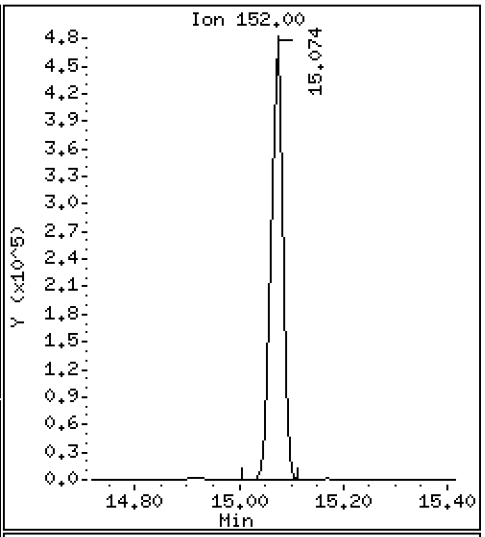
Concentration: 4.805 ug/mL

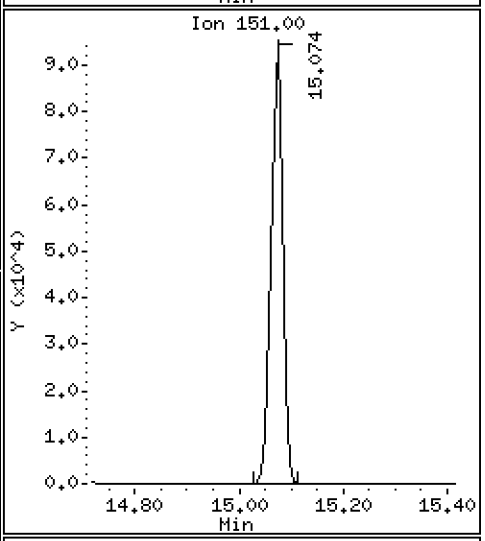


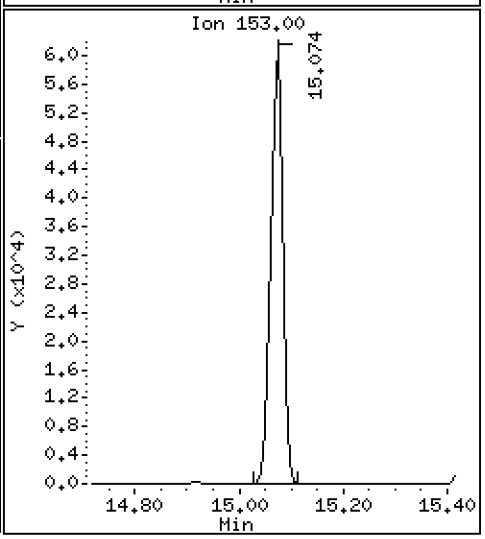












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

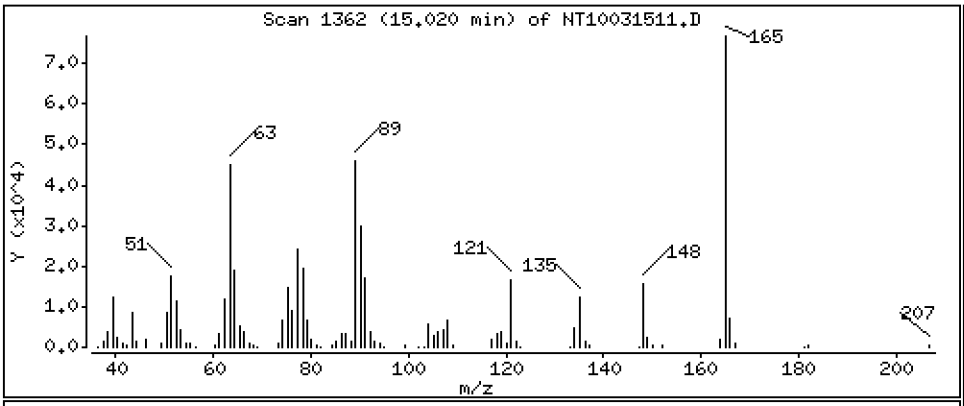
Operator: VTS

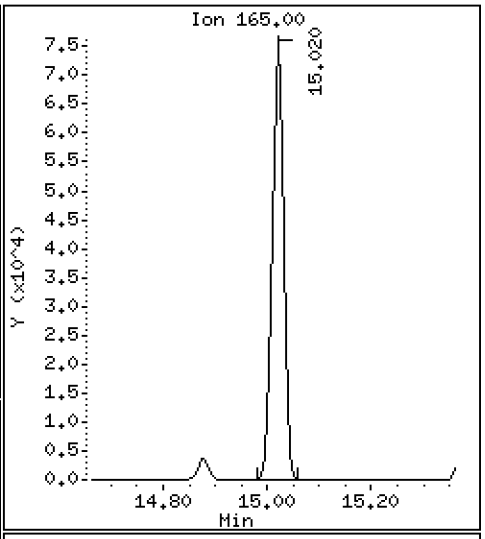
Column phase: ZB-5msi

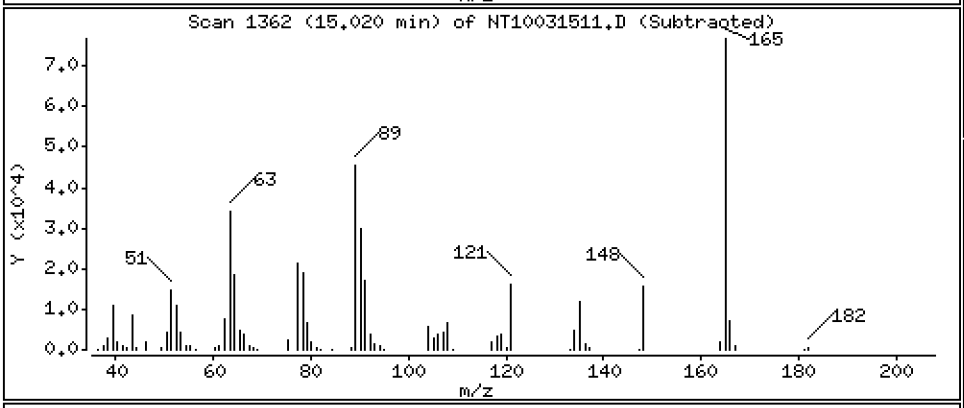
Column diameter: 0.25

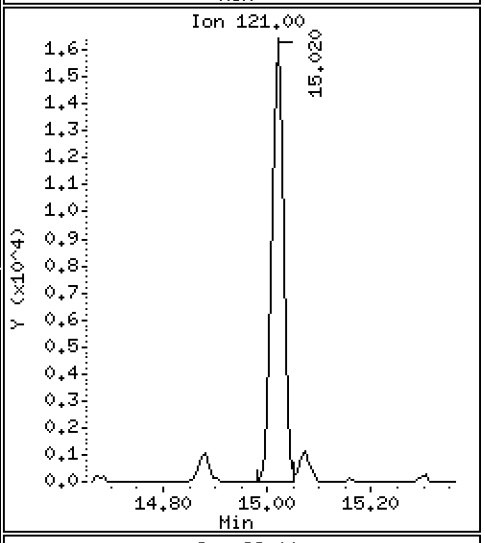
41 2,6-Dinitrotoluene

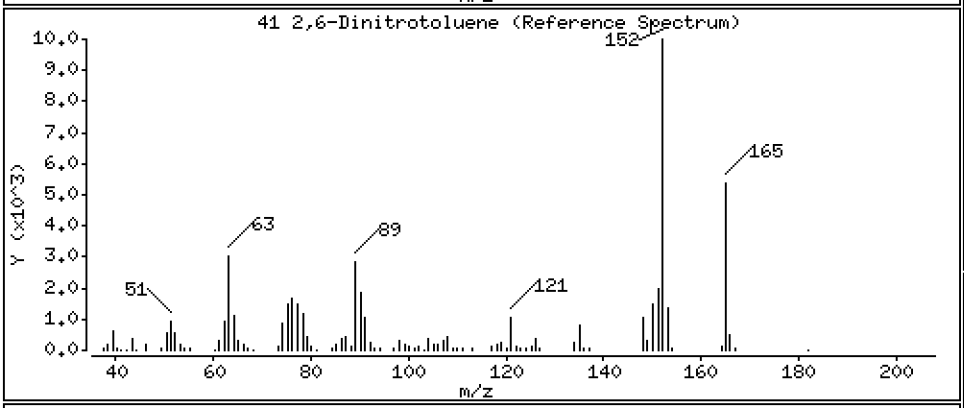
Concentration: 5.298 ug/mL

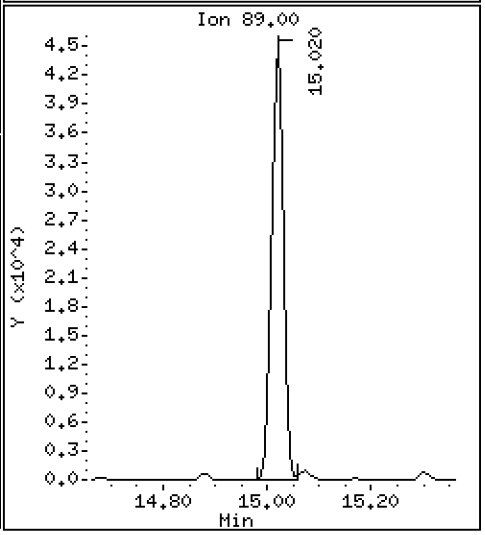


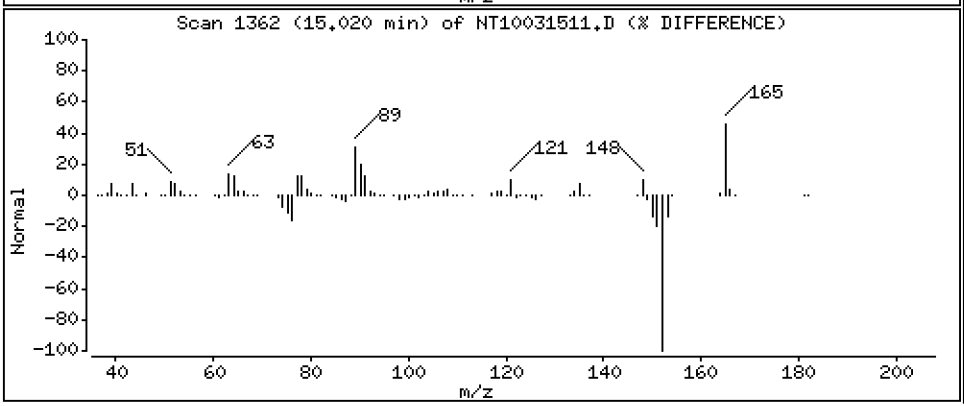












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

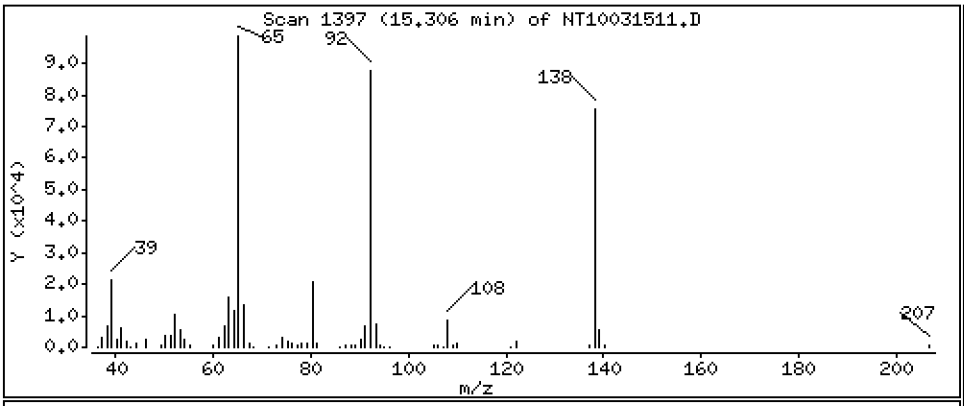
Operator: VTS

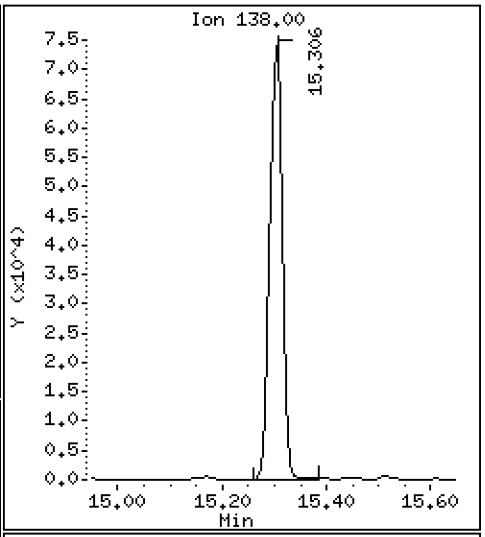
Column phase: ZB-5msi

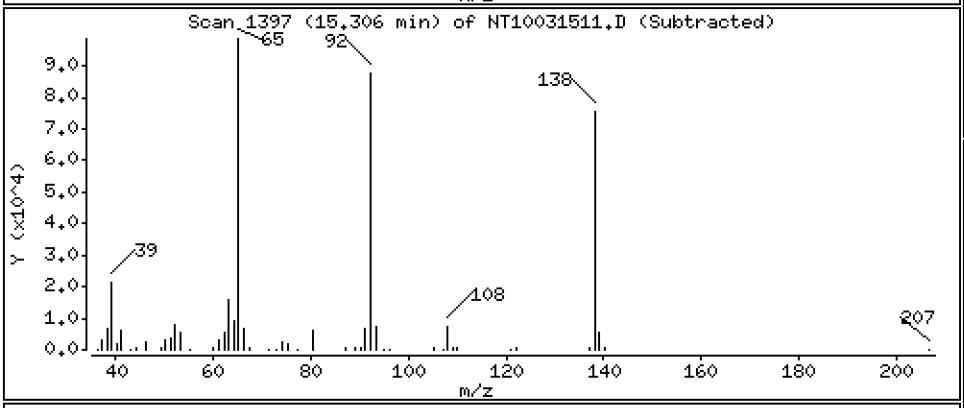
Column diameter: 0.25

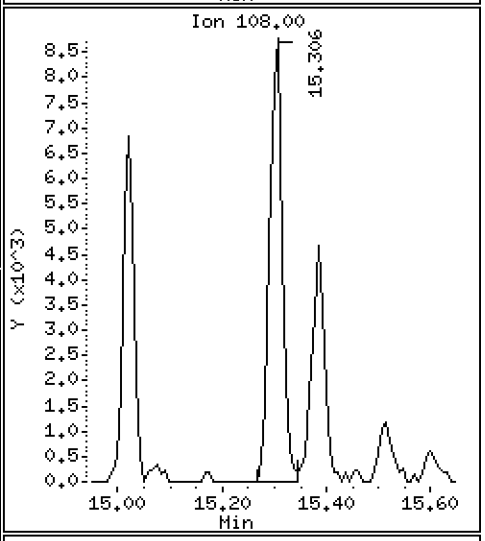
43 3-Nitroaniline

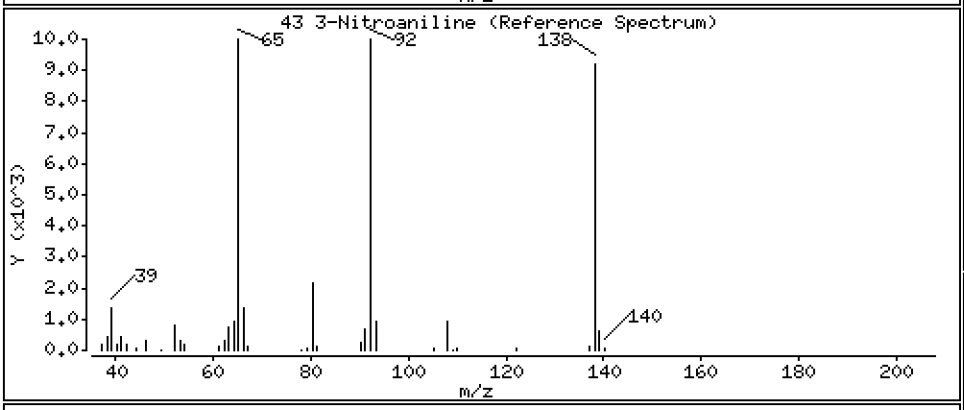
Concentration: 5.014 ug/mL

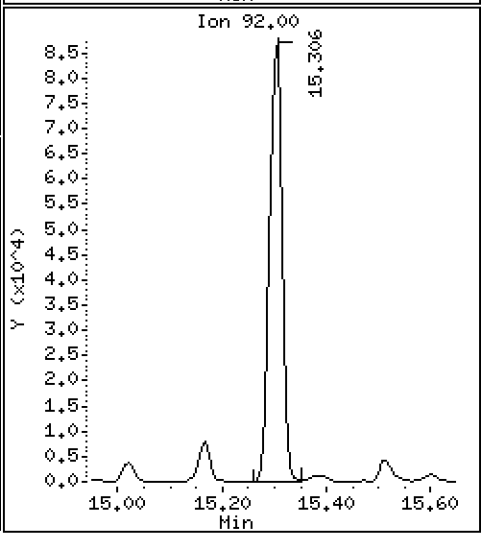


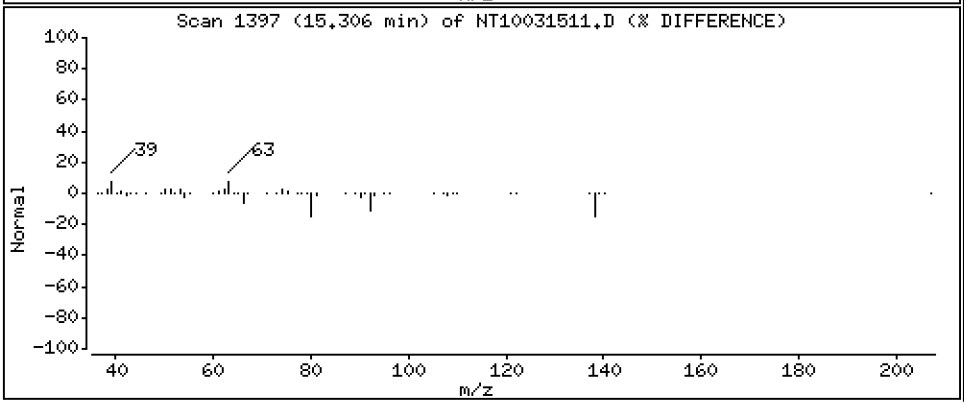












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

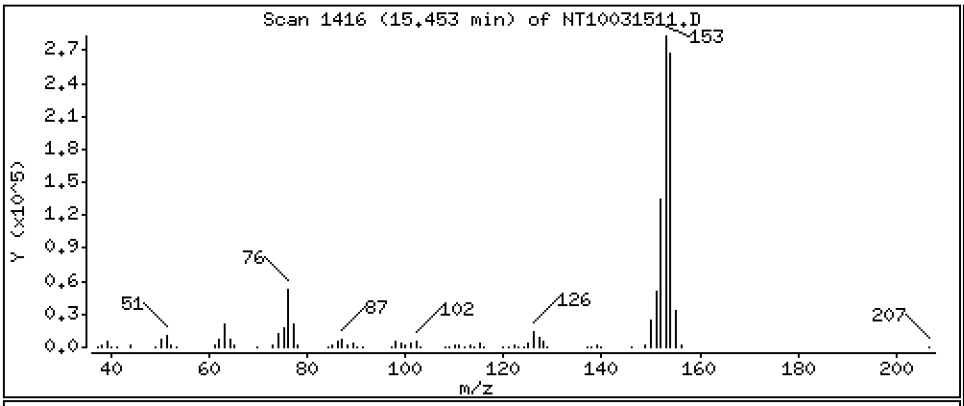
Operator: VTS

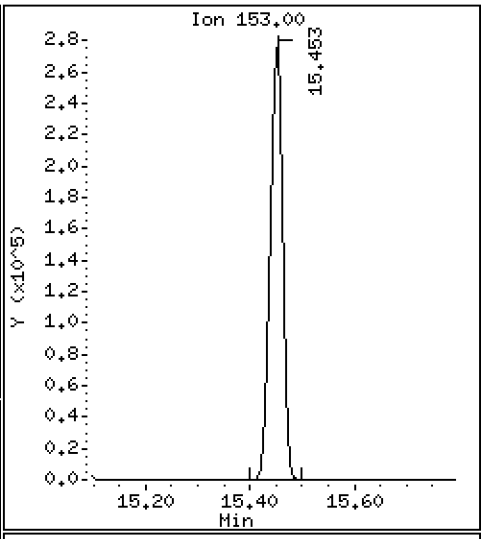
Column phase: ZB-5msi

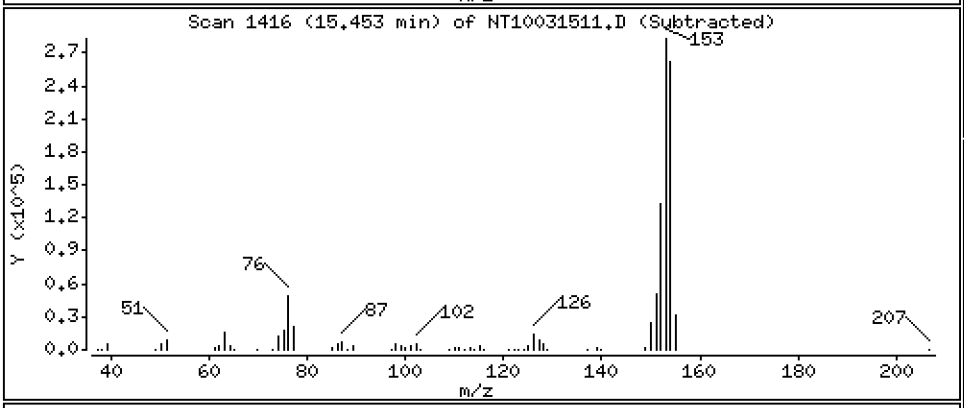
Column diameter: 0.25

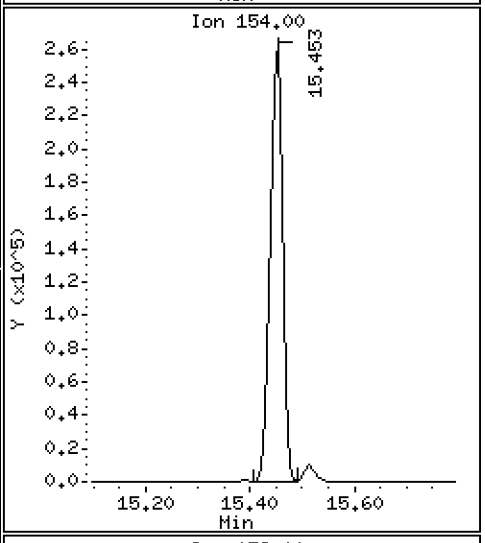
44 Acenaphthene

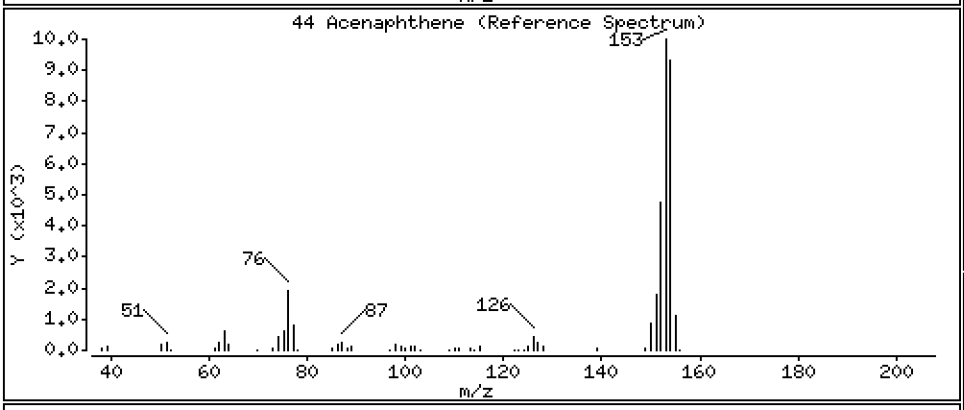
Concentration: 4.776 ug/mL

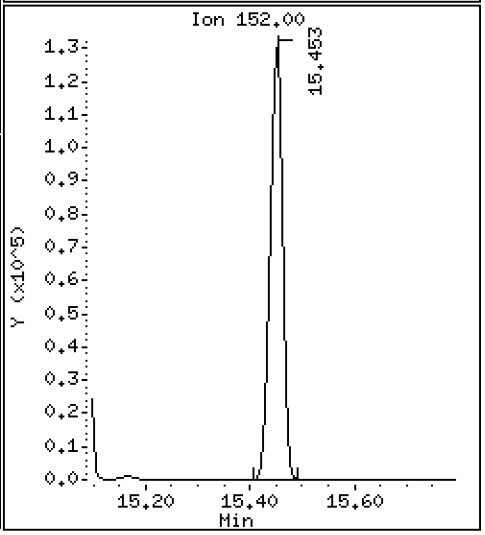


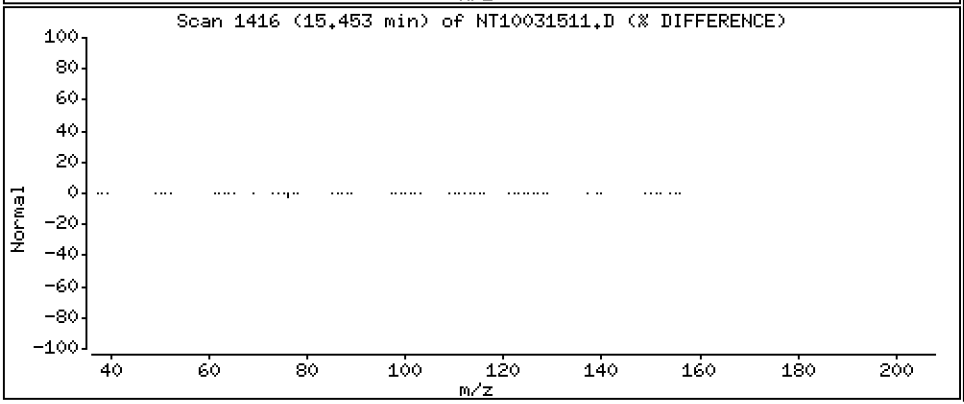












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

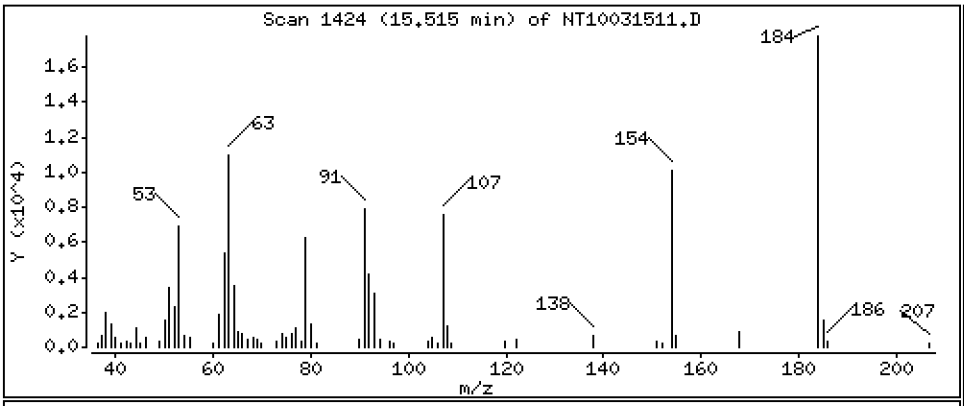
Operator: VTS

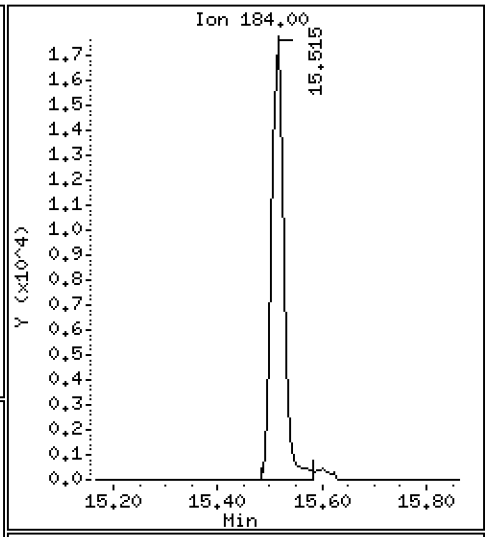
Column phase: ZB-5msi

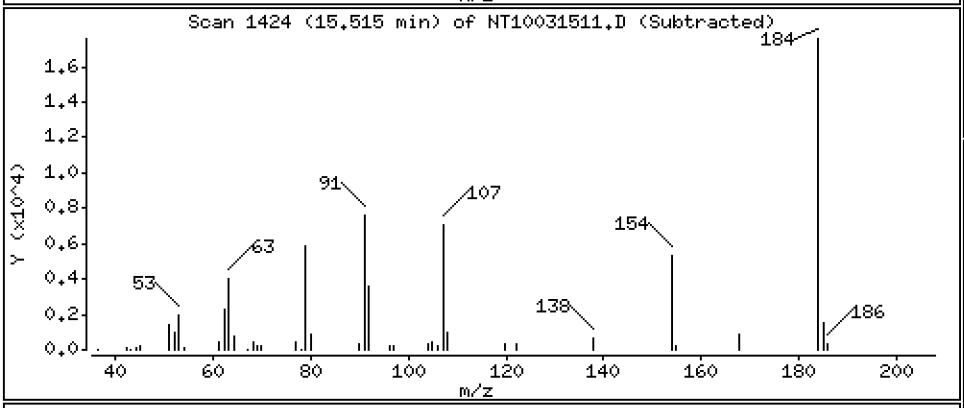
Column diameter: 0.25

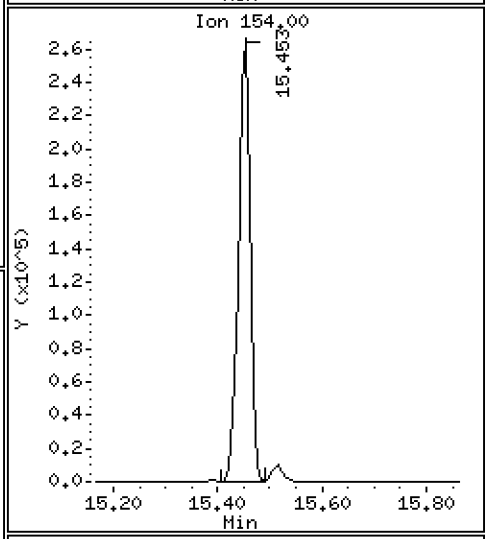
45 2,4-Dinitrophenol

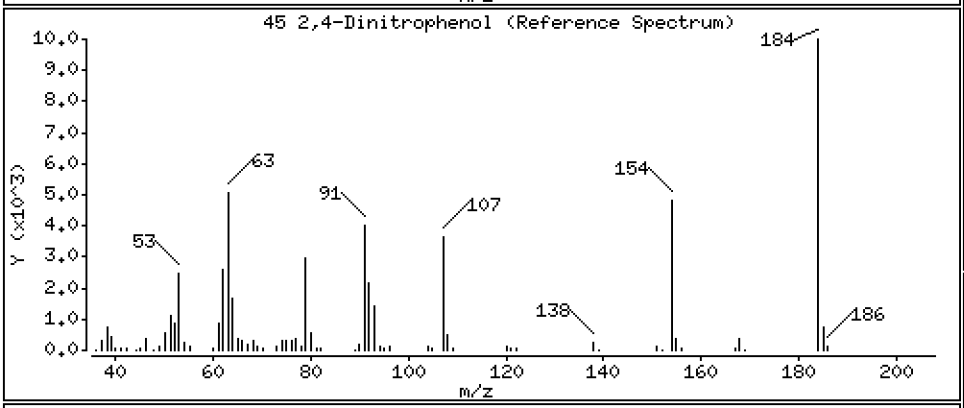
Concentration: 2.124 ug/mL

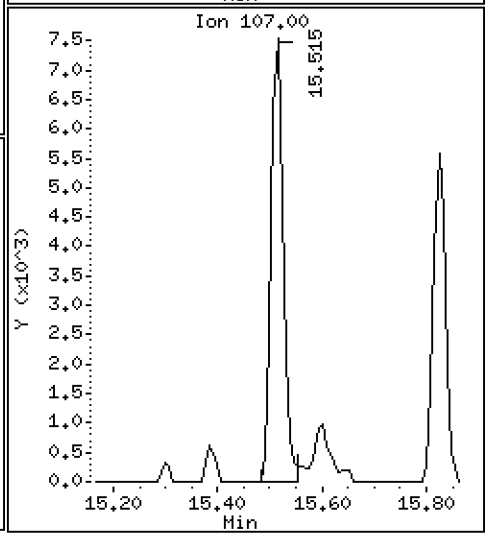


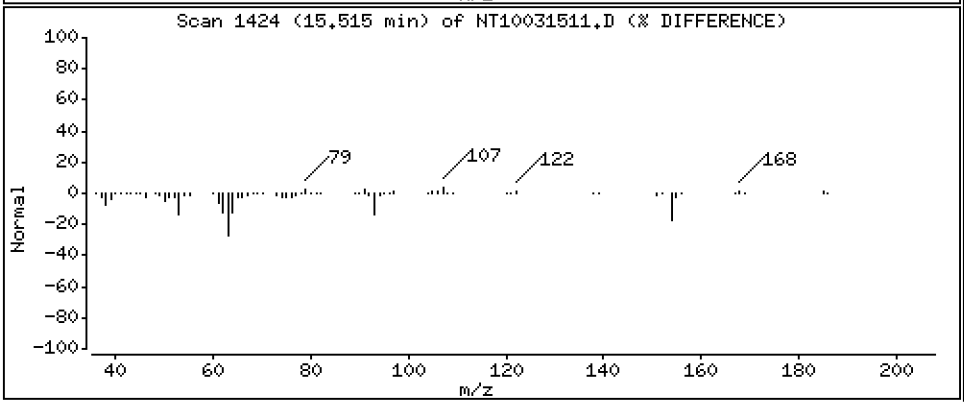












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

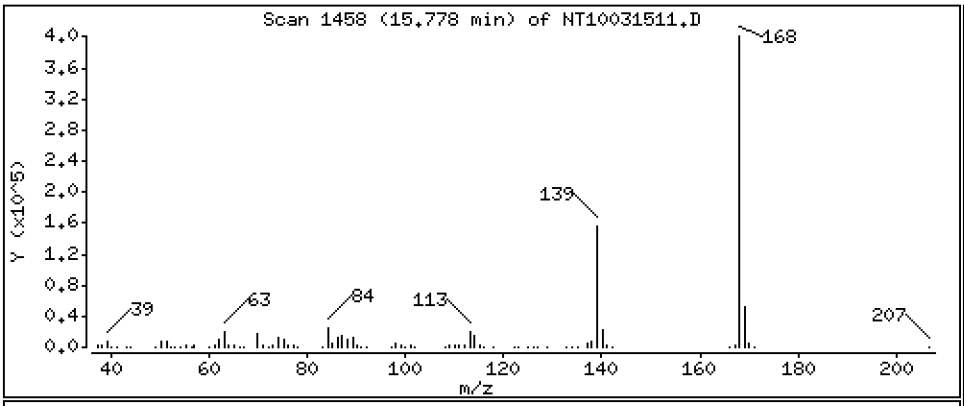
Operator: VTS

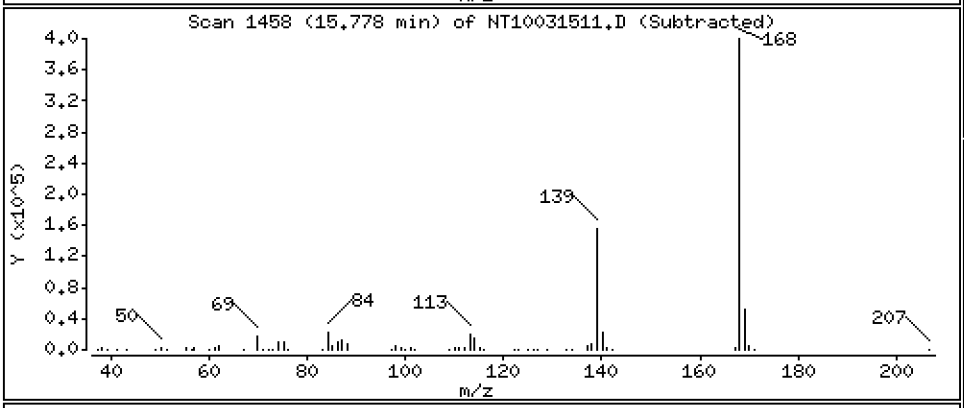
Column phase: ZB-5msi

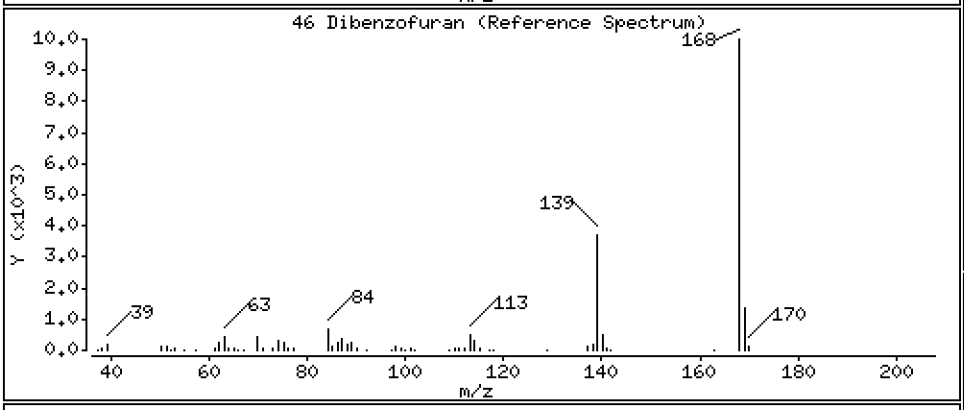
Column diameter: 0.25

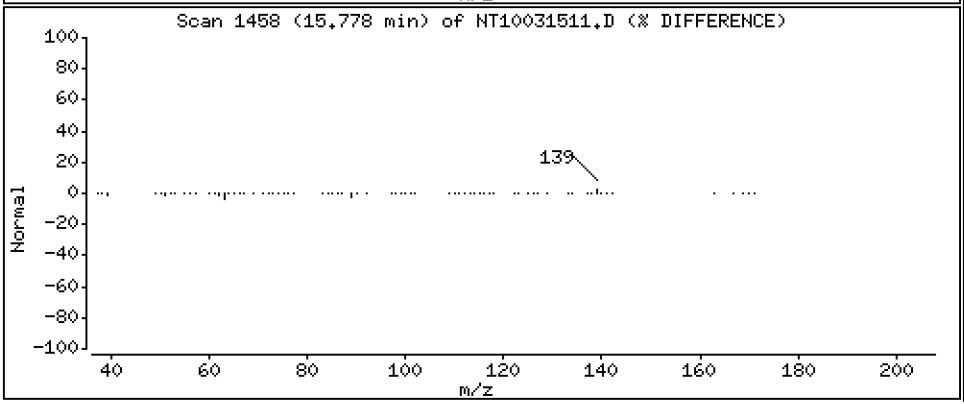
46 Dibenzofuran

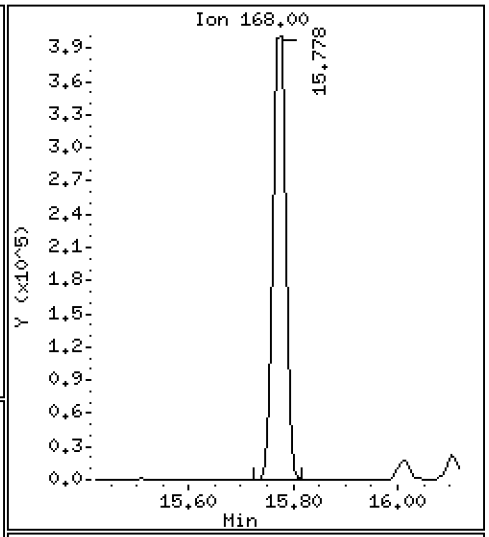
Concentration: 4.648 ug/mL

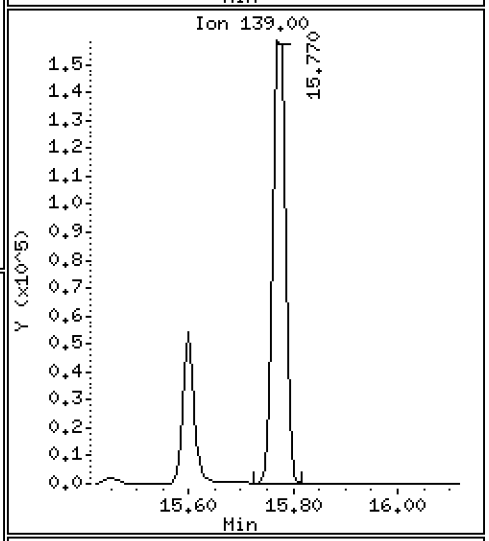


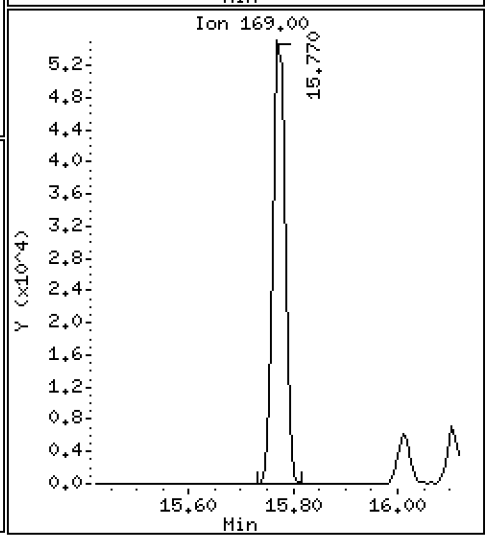












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

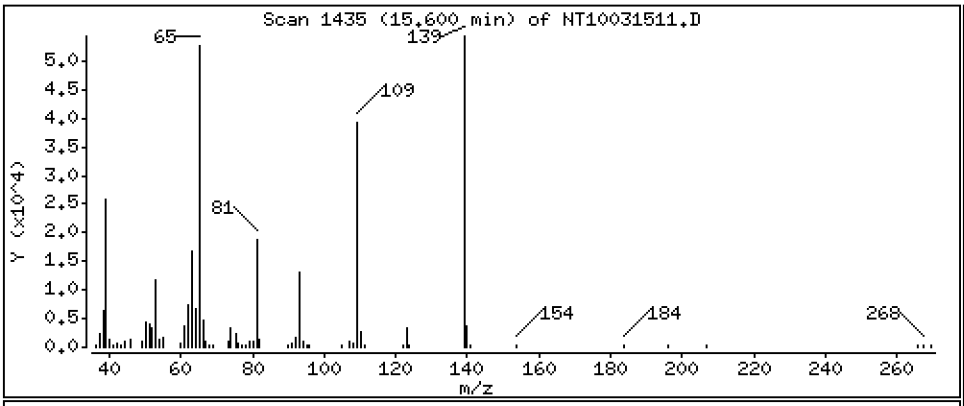
Operator: VTS

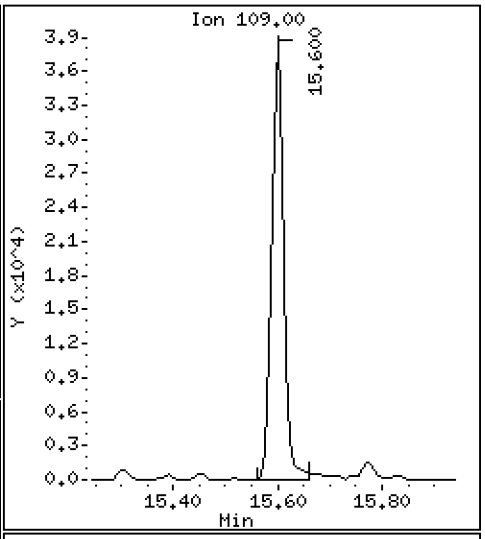
Column phase: ZB-5msi

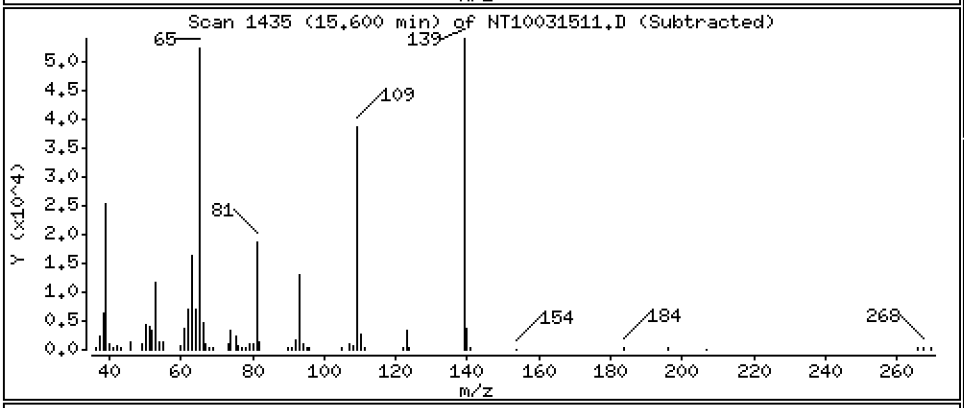
Column diameter: 0.25

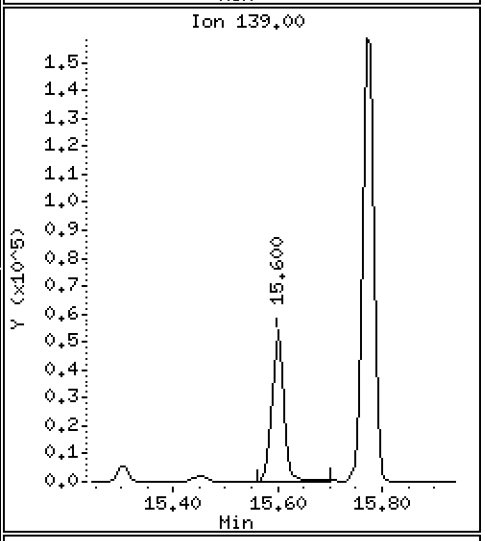
47 4-Nitrophenol

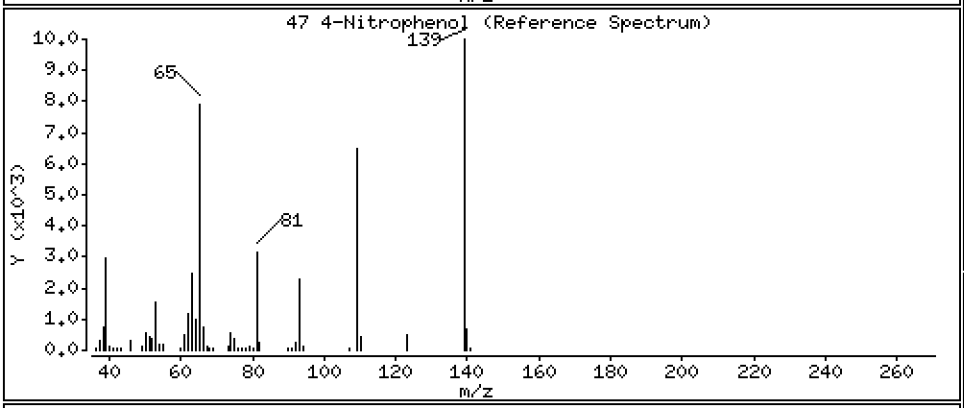
Concentration: 3.966 ug/mL

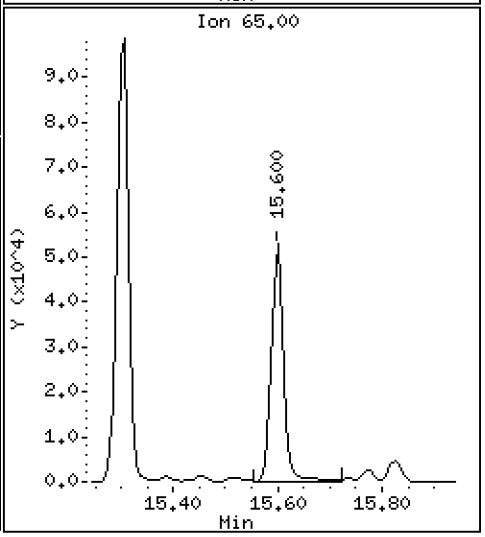


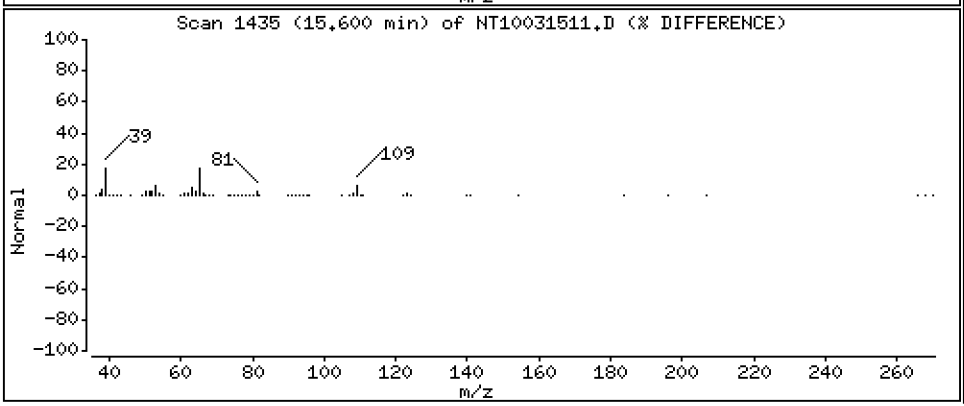












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

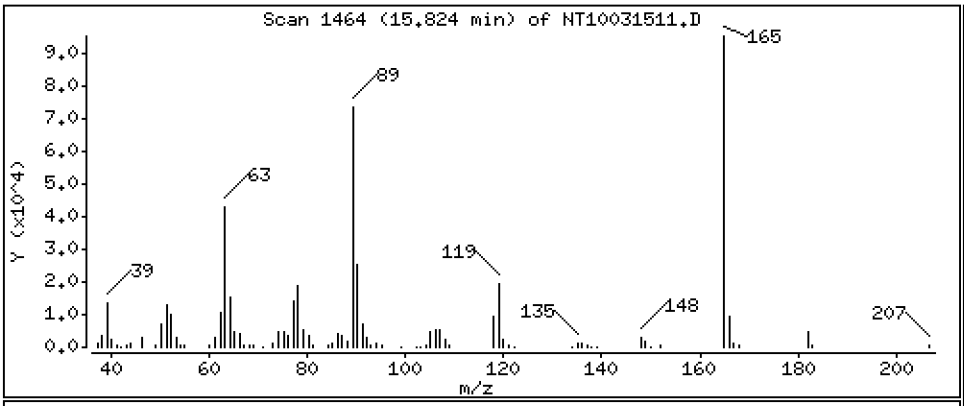
Operator: VTS

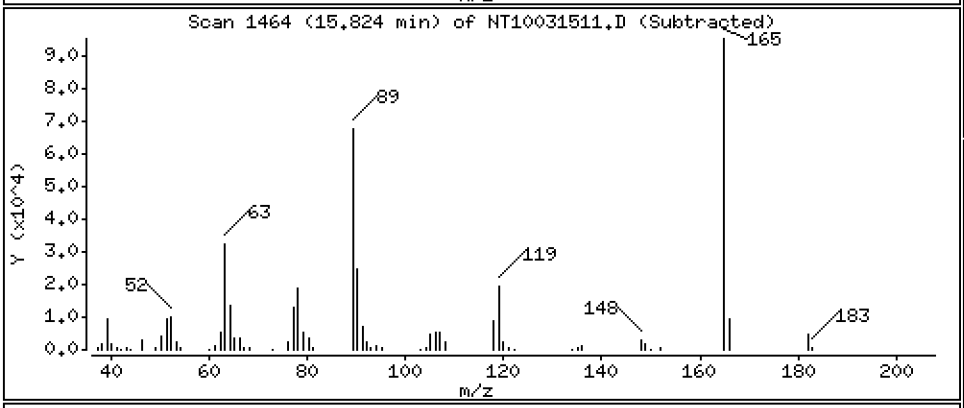
Column phase: ZB-5msi

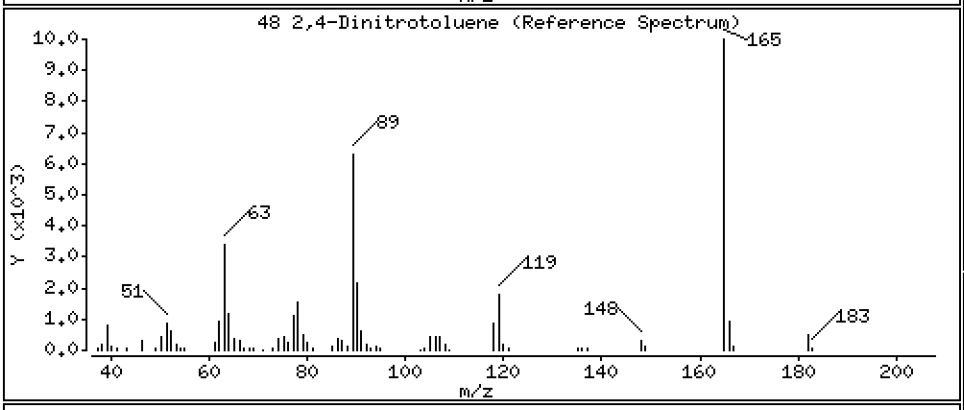
Column diameter: 0.25

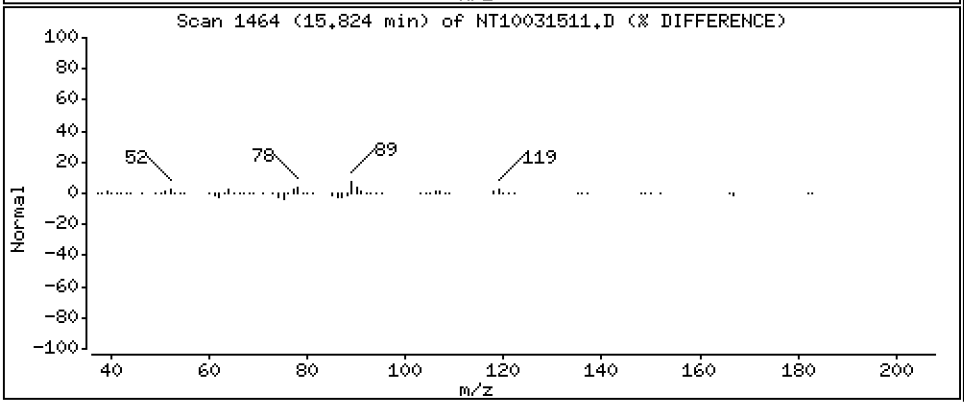
48 2,4-Dinitrotoluene

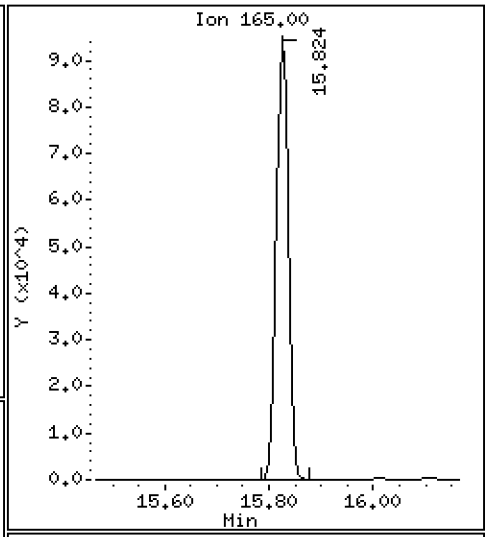
Concentration: 4.510 ug/mL

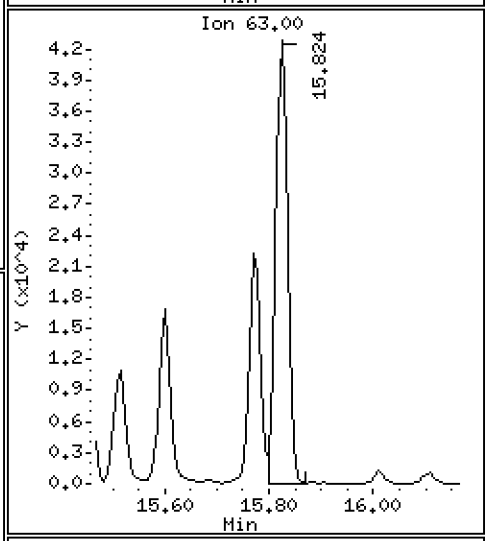


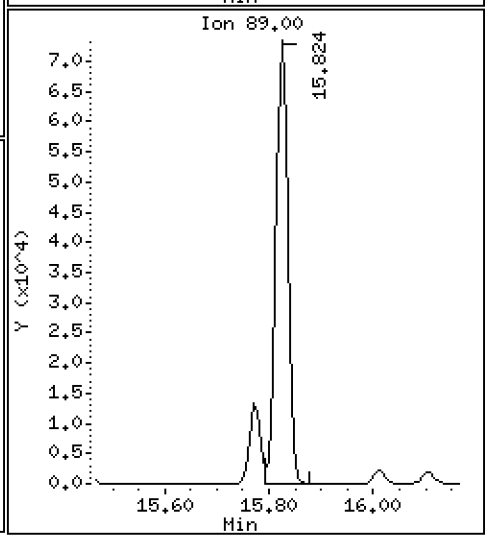












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

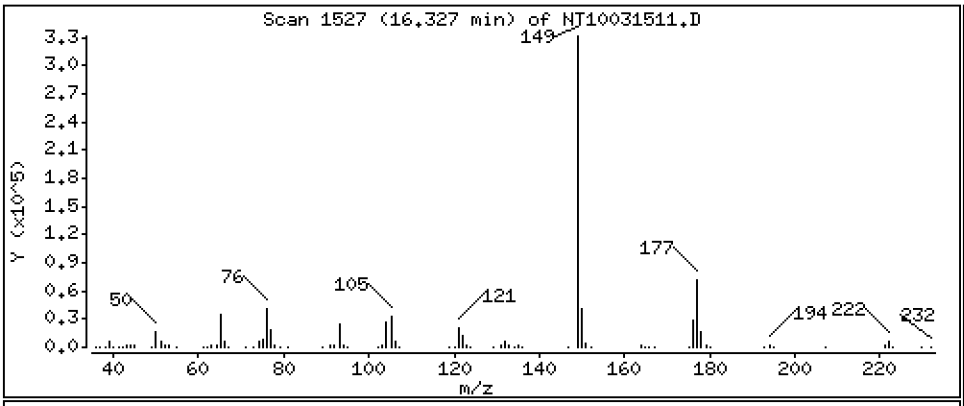
Operator: VTS

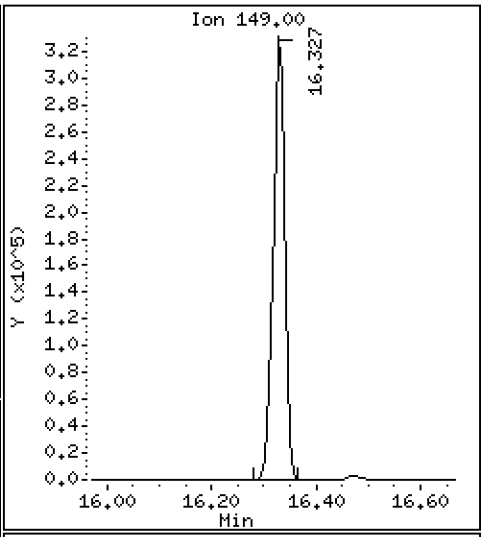
Column phase: ZB-5msi

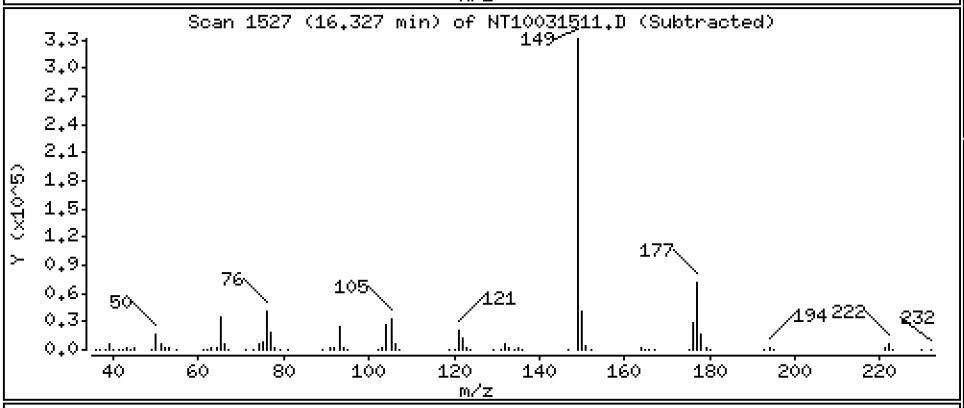
Column diameter: 0.25

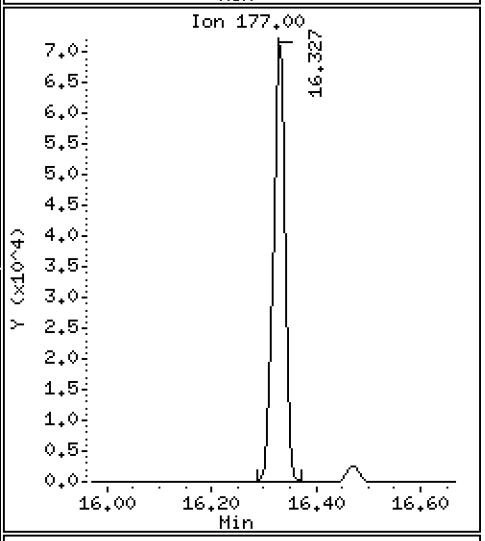
50 Diethylphthalate

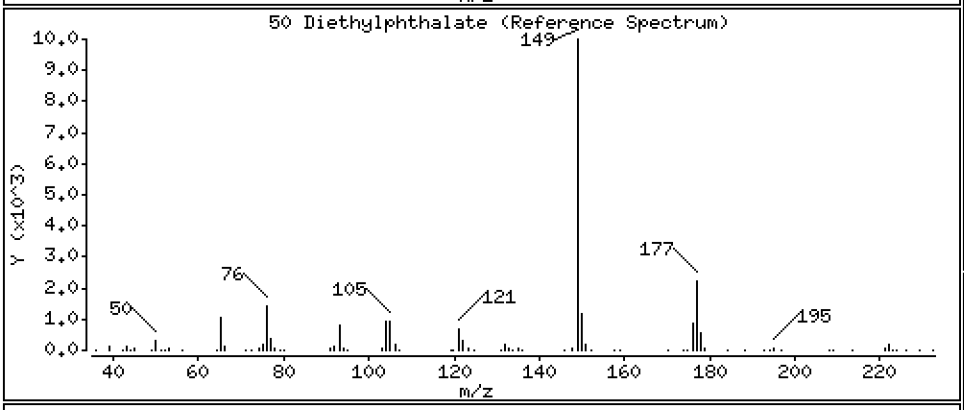
Concentration: 5.209 ug/mL

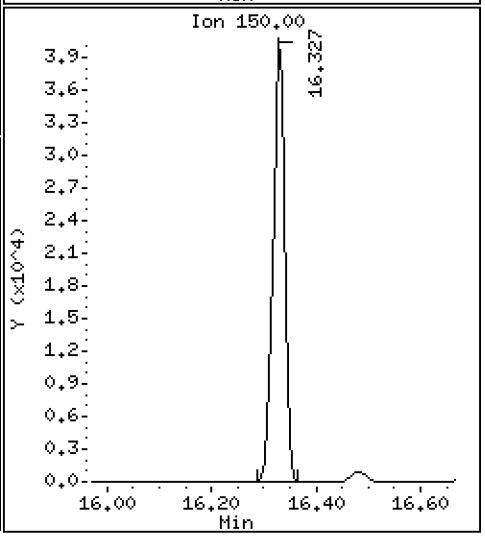


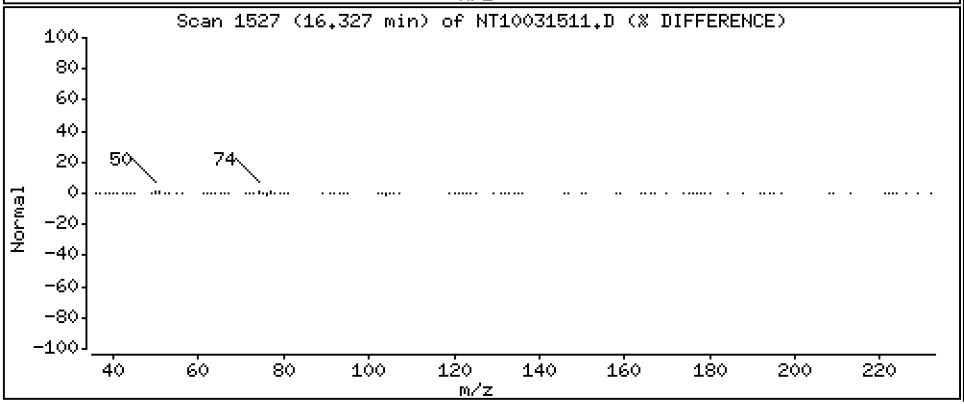












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

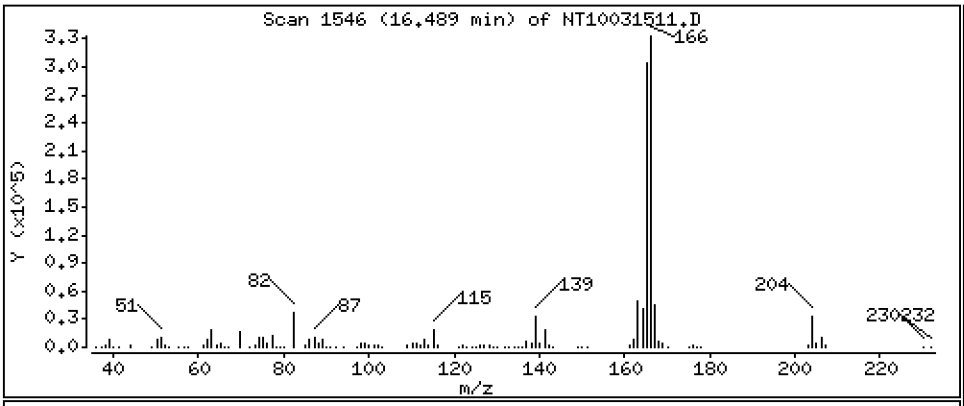
Operator: VTS

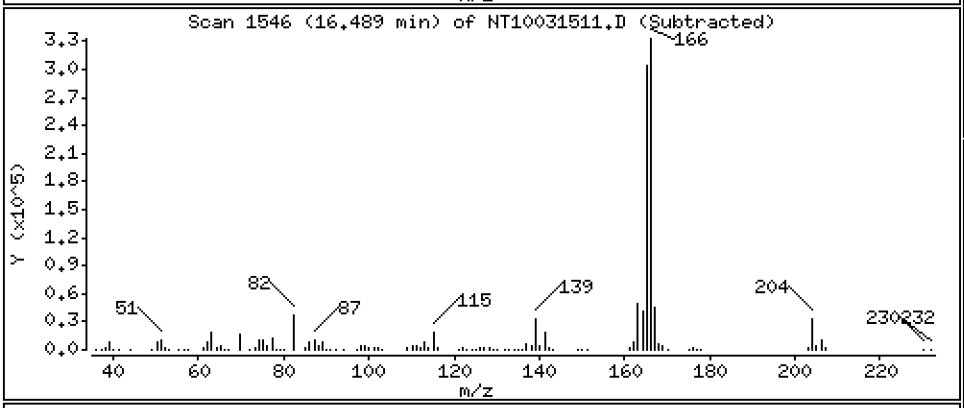
Column phase: ZB-5msi

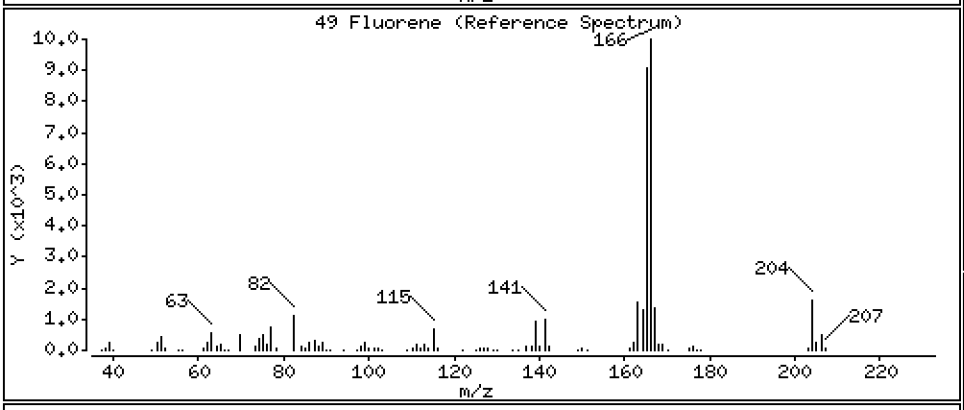
Column diameter: 0.25

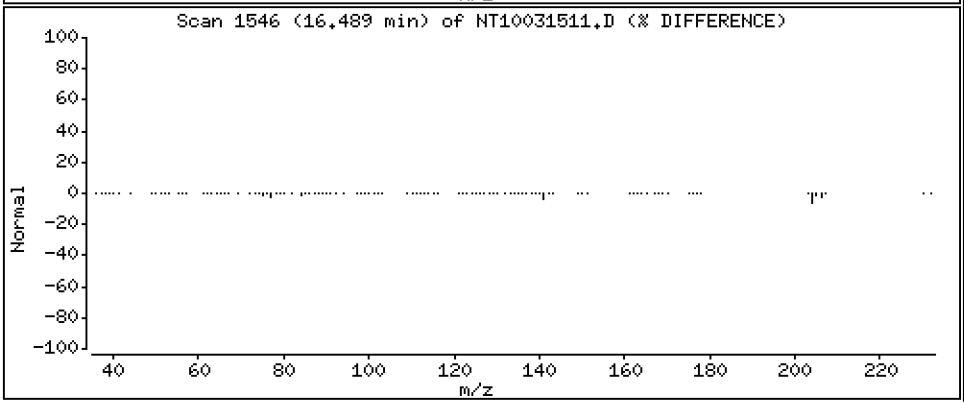
49 Fluorene

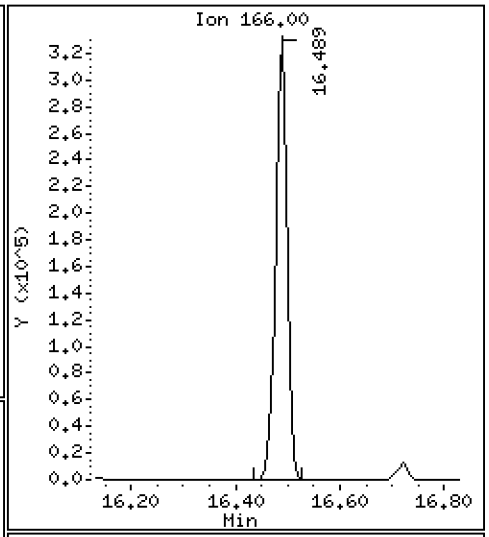
Concentration: 4.708 ug/mL

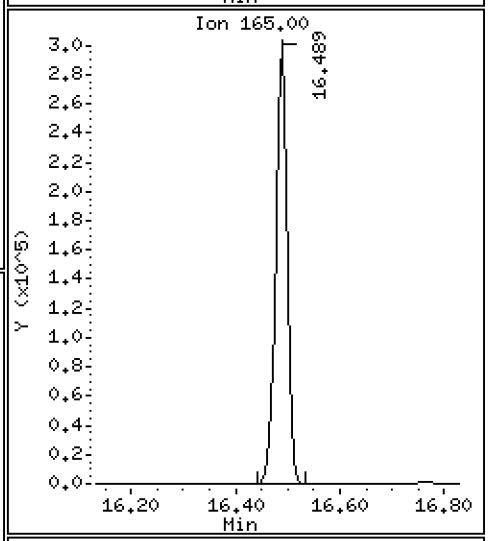


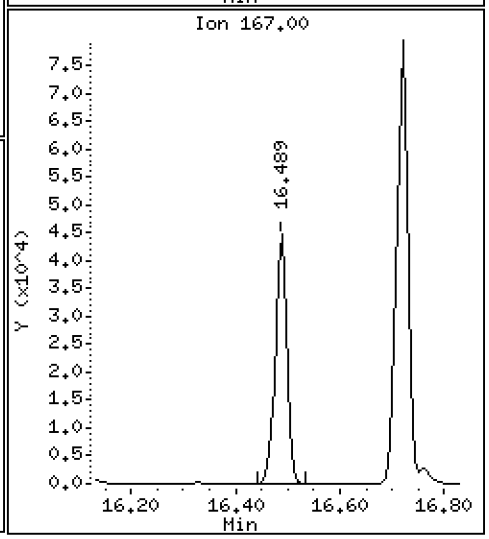












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

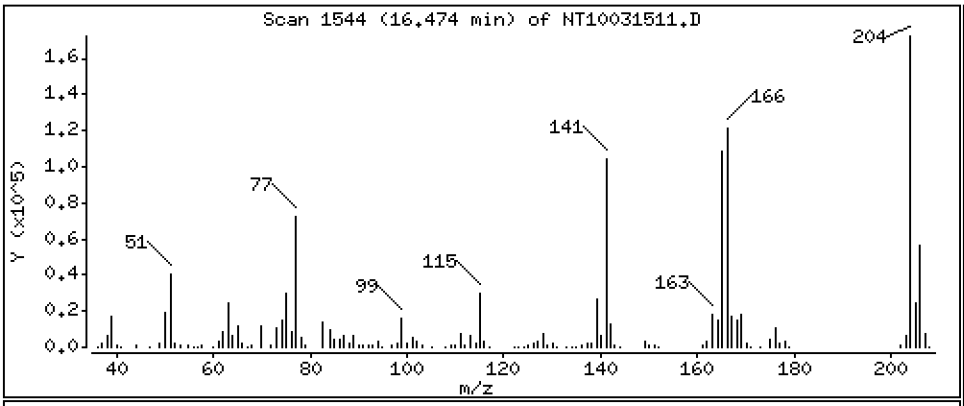
Operator: VTS

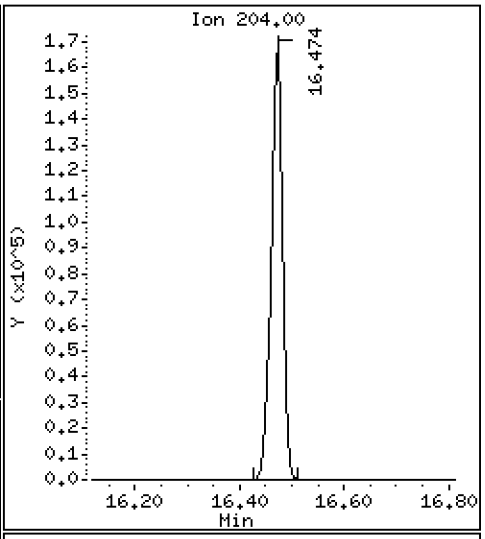
Column phase: ZB-5msi

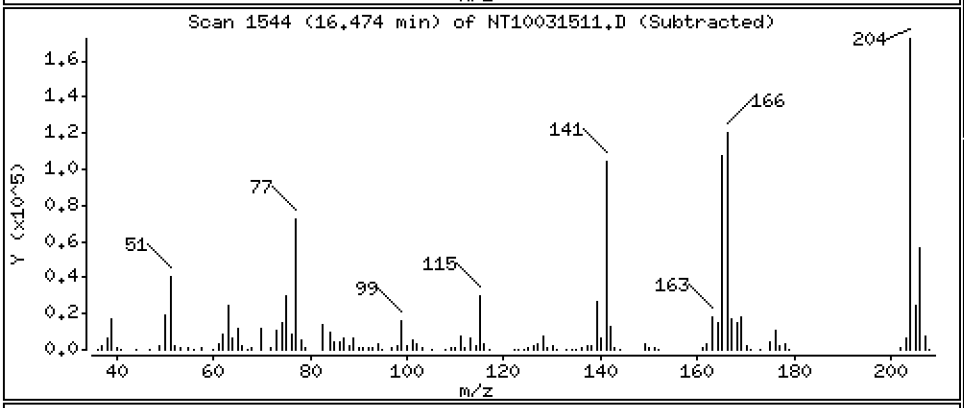
Column diameter: 0.25

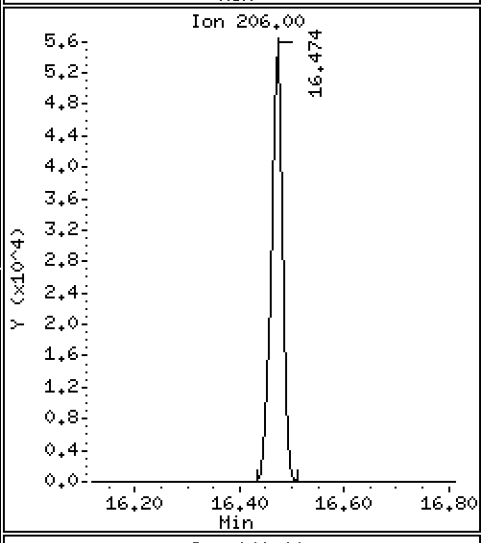
51 4-Chlorophenyl-phenylether

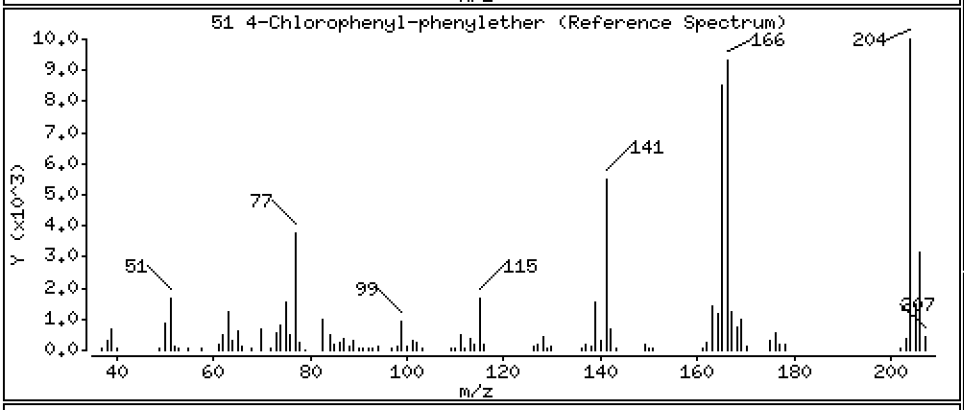
Concentration: 4.993 ug/mL

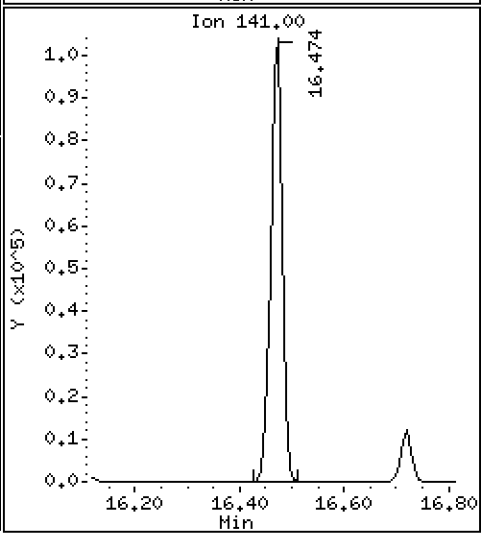


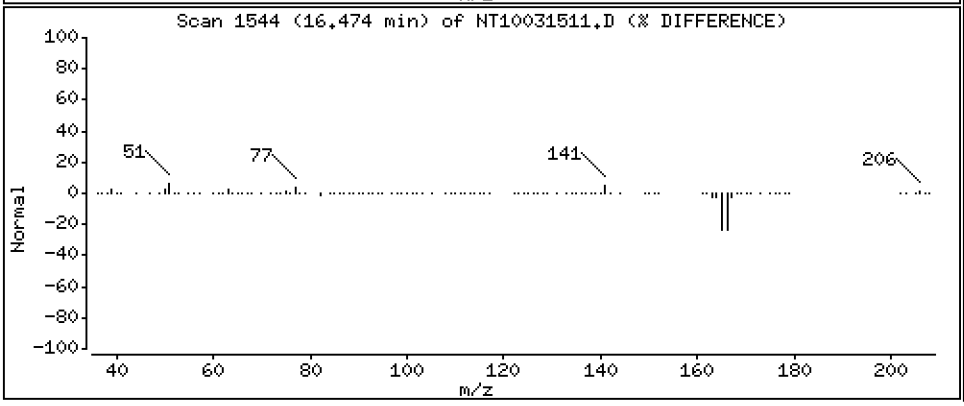












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

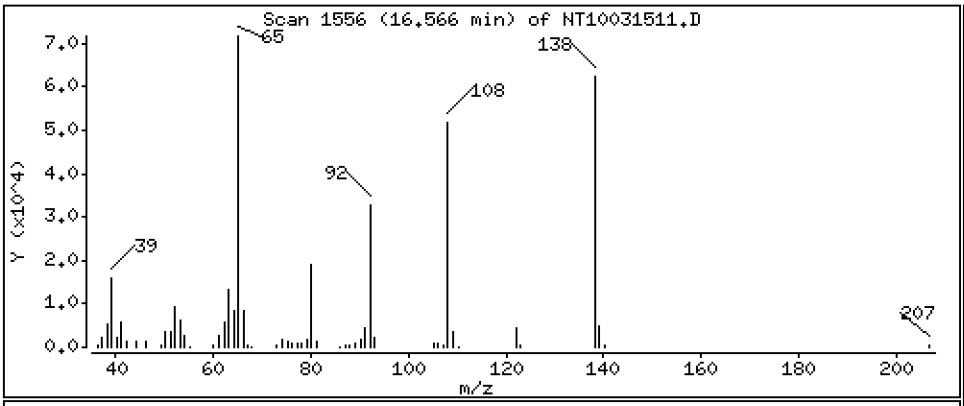
Operator: VTS

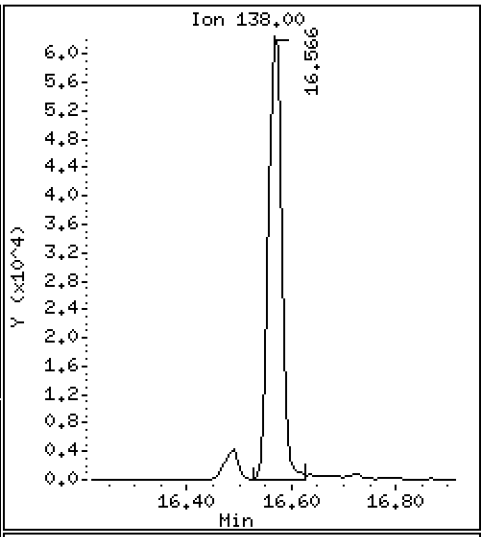
Column phase: ZB-5msi

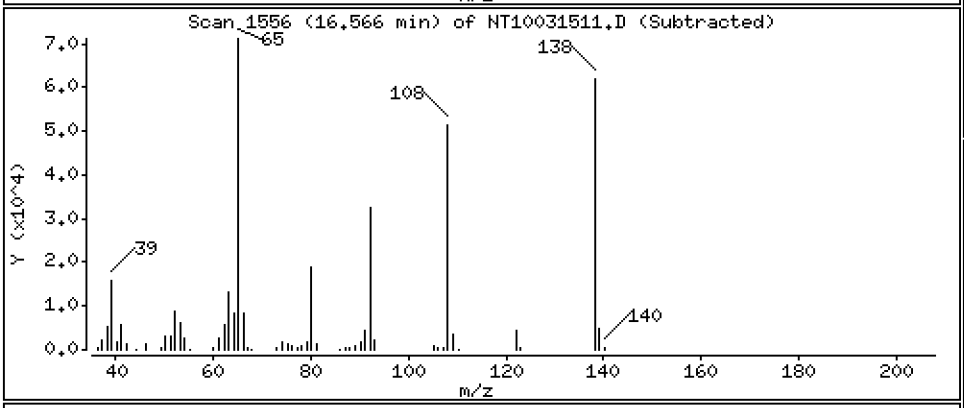
Column diameter: 0.25

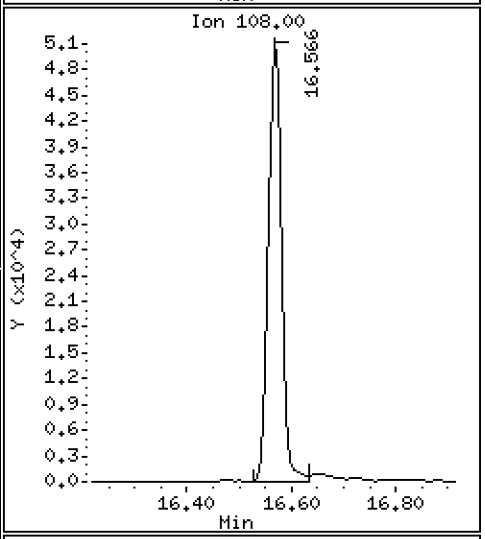
52 4-Nitroaniline

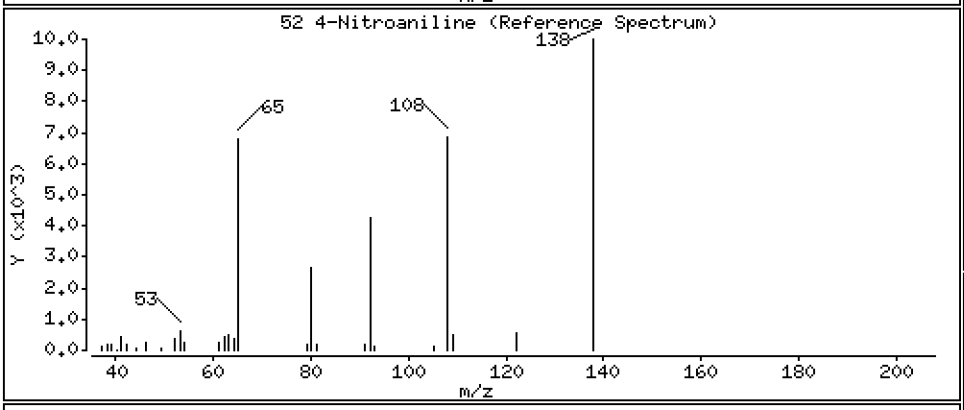
Concentration: 4.925 ug/mL

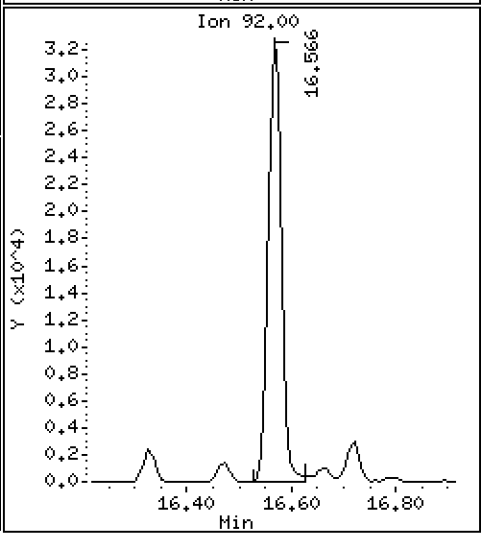


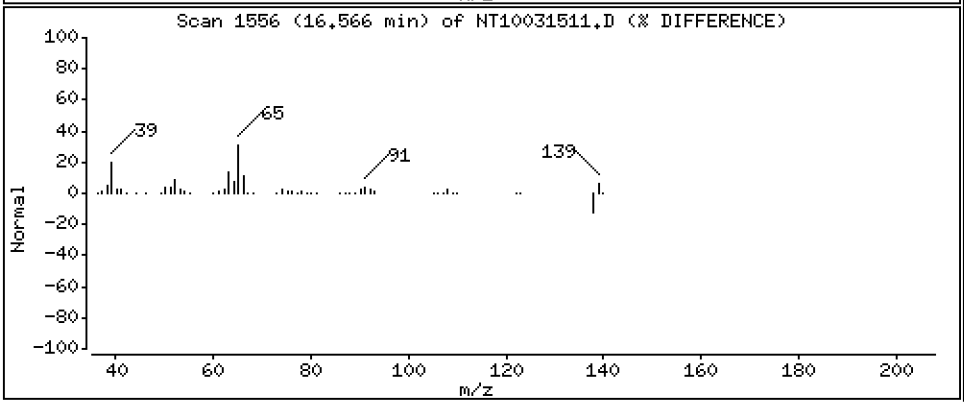












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

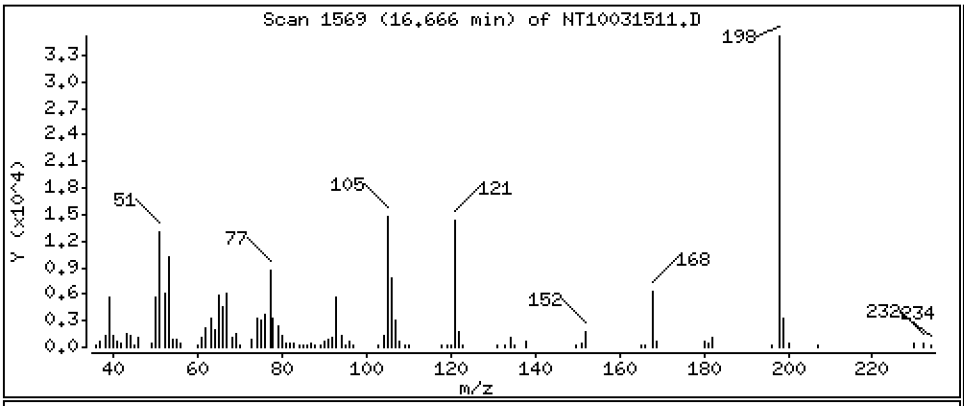
Operator: VTS

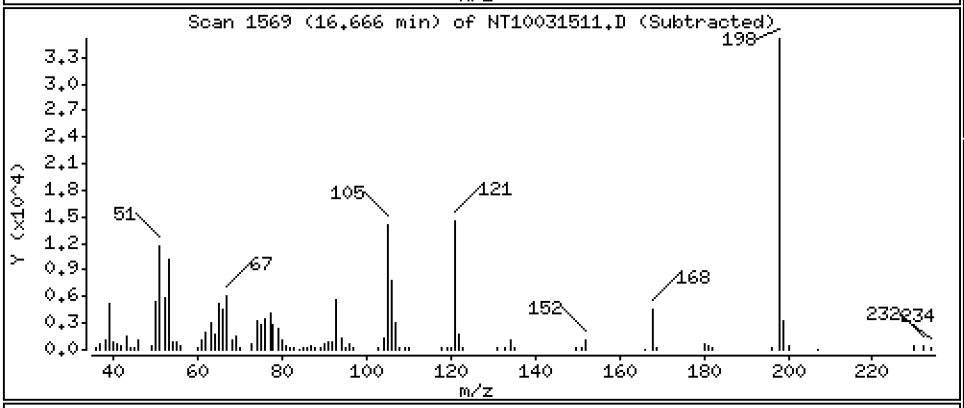
Column phase: ZB-5msi

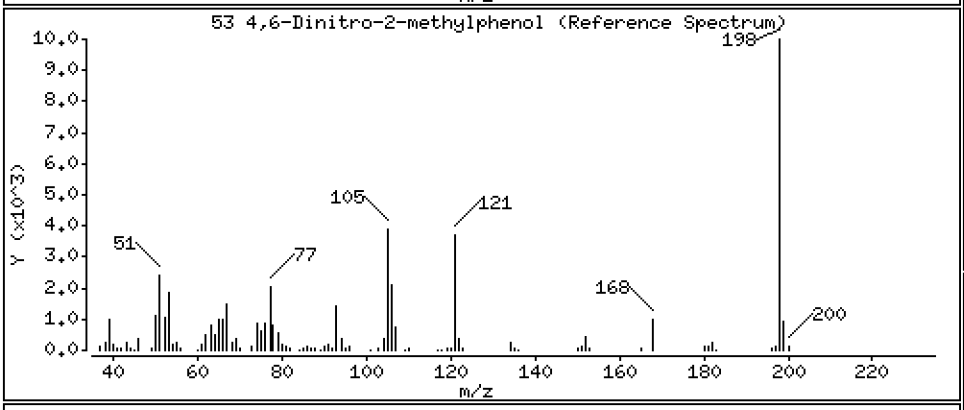
Column diameter: 0.25

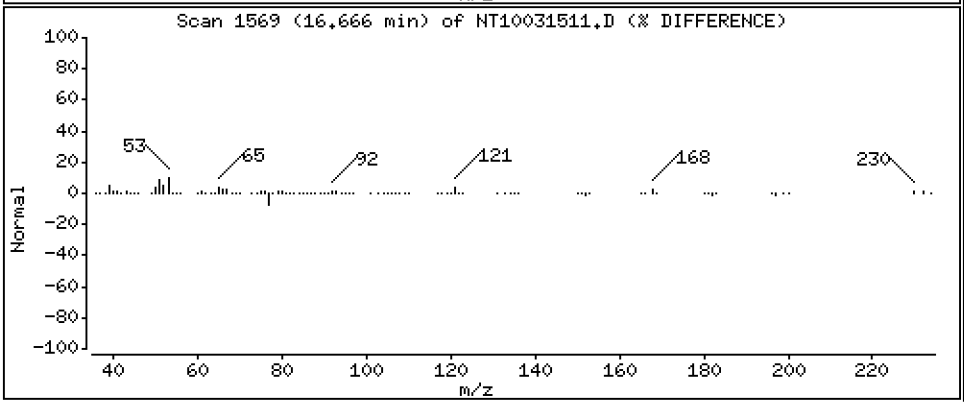
53 4,6-Dinitro-2-methylphenol

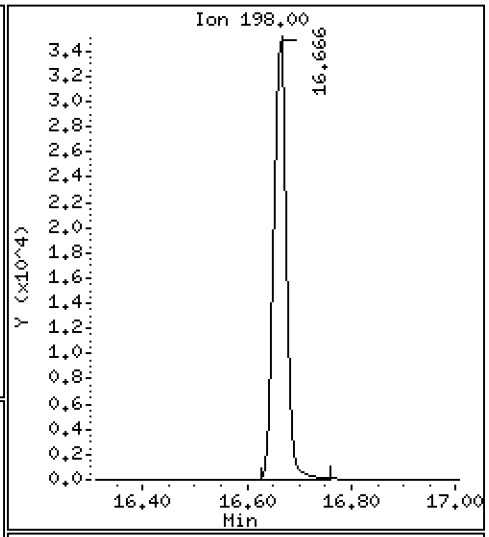
Concentration: 3.515 ug/mL

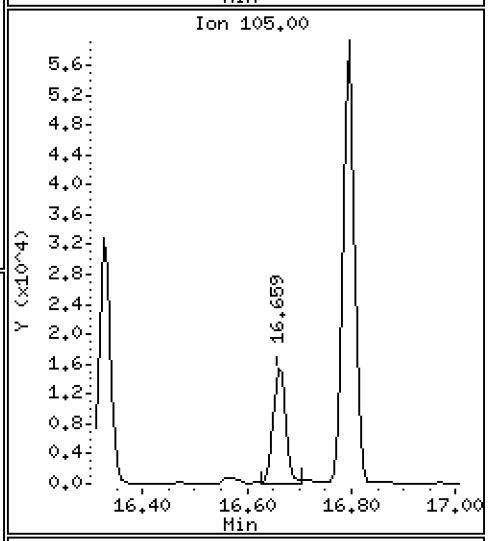


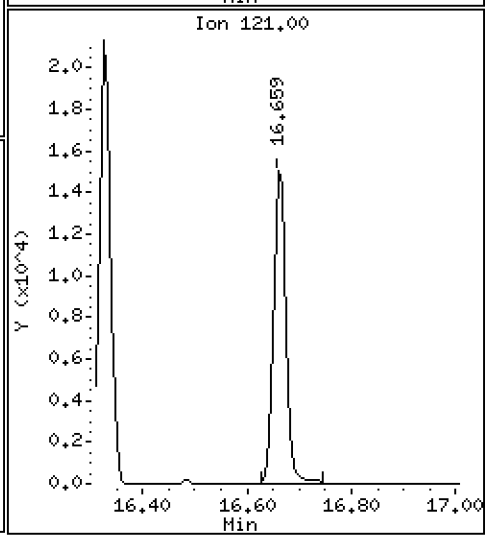












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

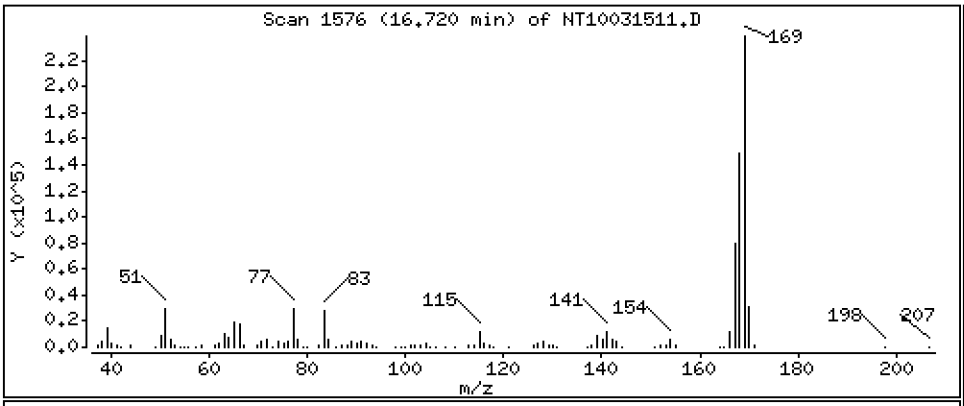
Operator: VTS

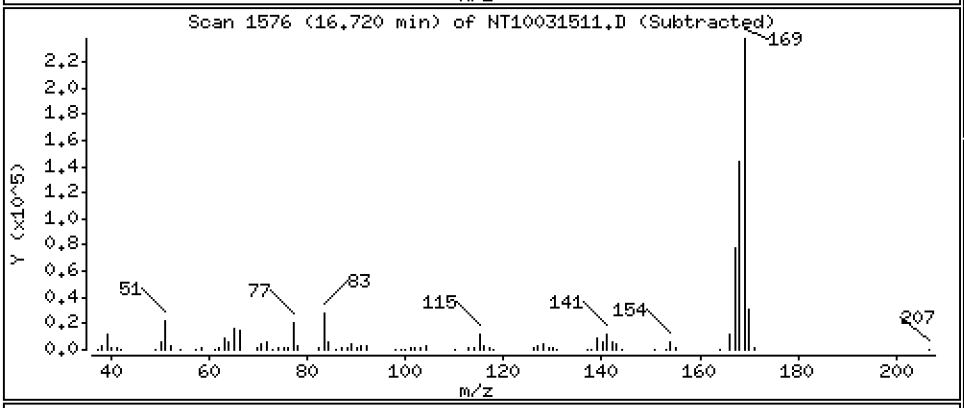
Column phase: ZB-5msi

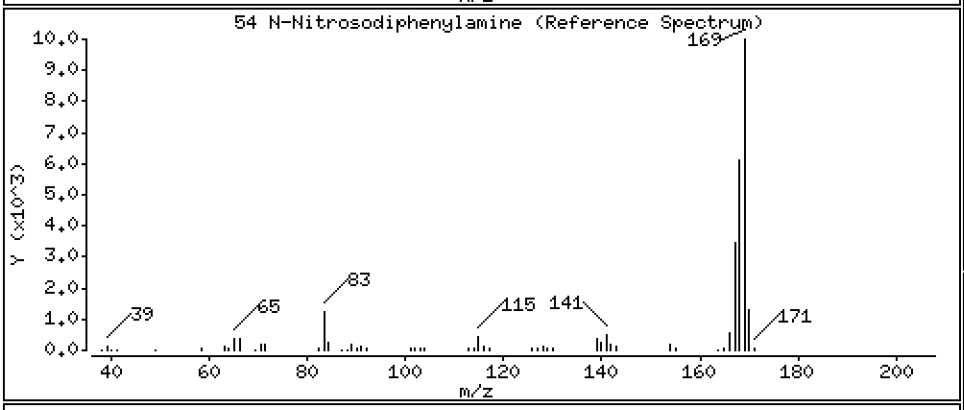
Column diameter: 0.25

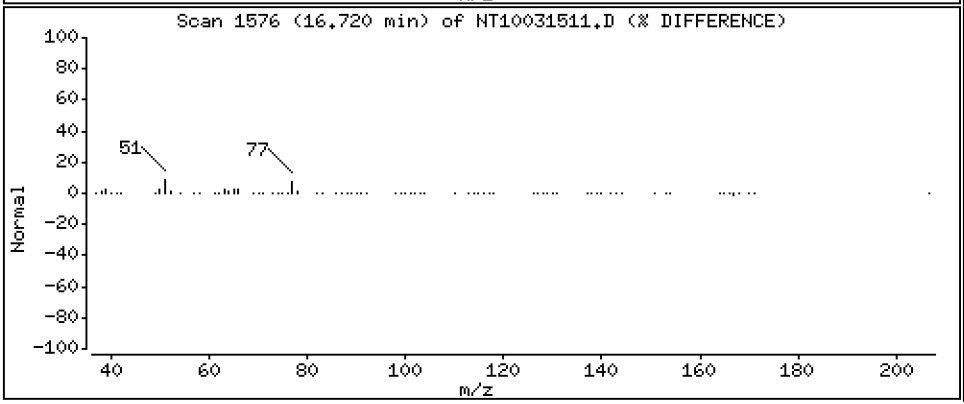
54 N-Nitrosodiphenylamine

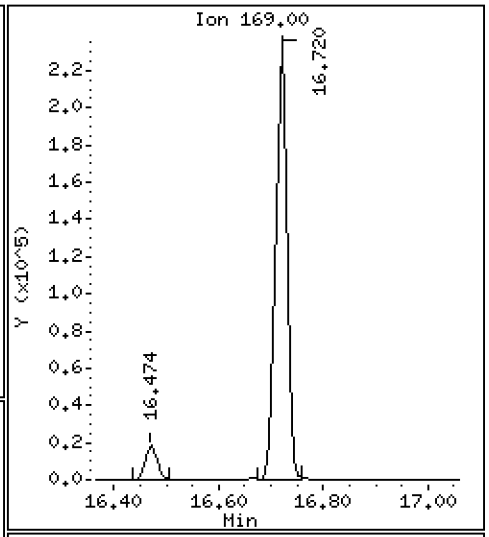
Concentration: 4.802 ug/mL

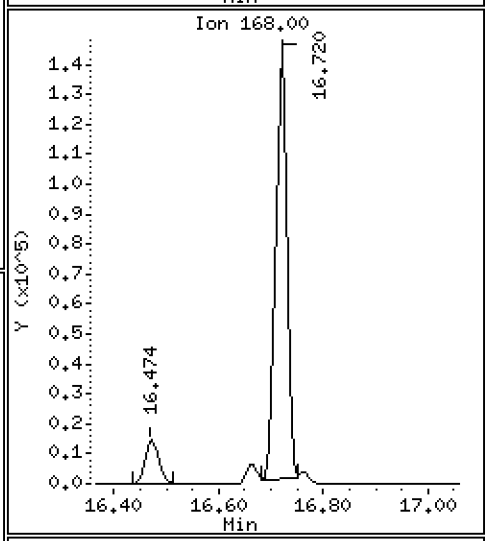


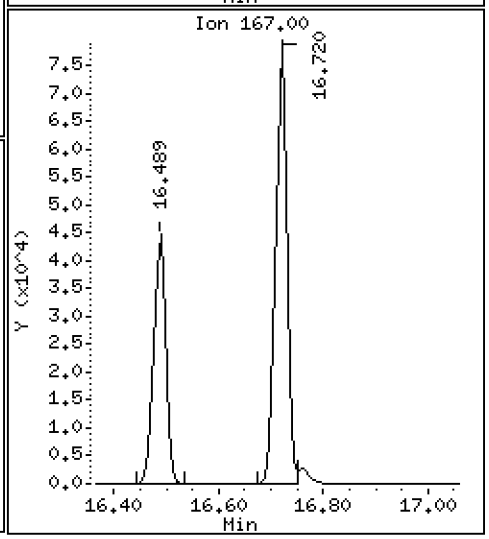












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

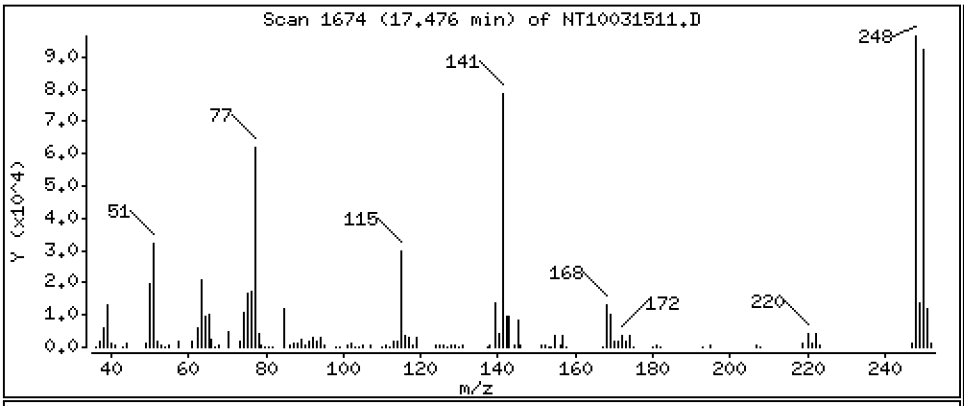
Operator: VTS

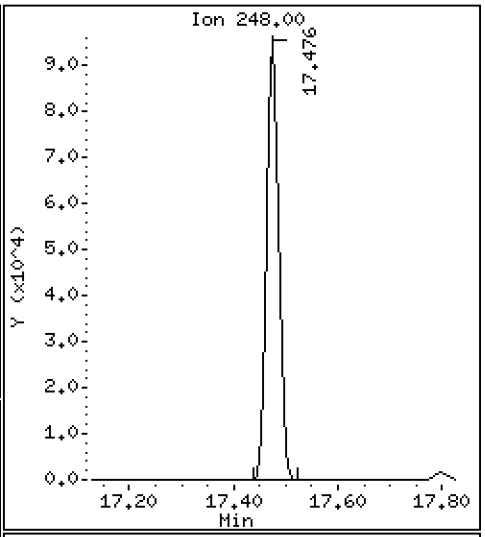
Column phase: ZB-5msi

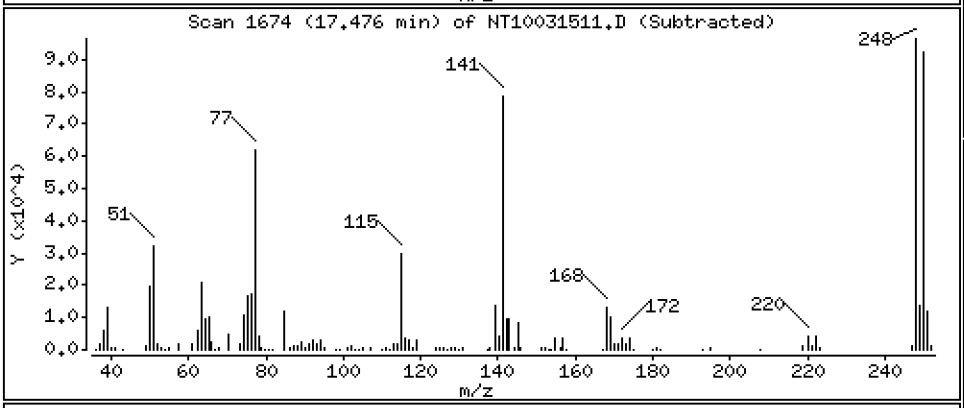
Column diameter: 0.25

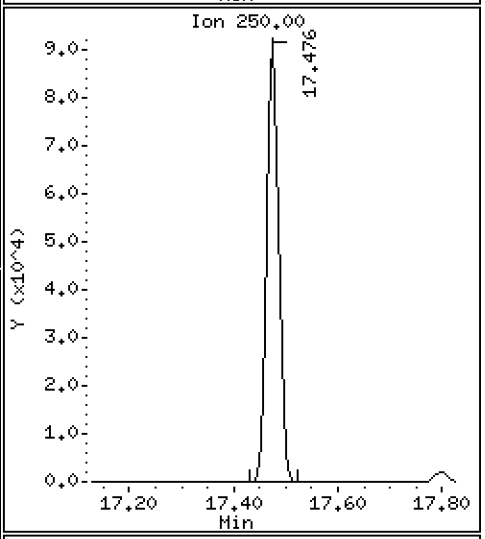
56 4-Bromophenyl-phenylether

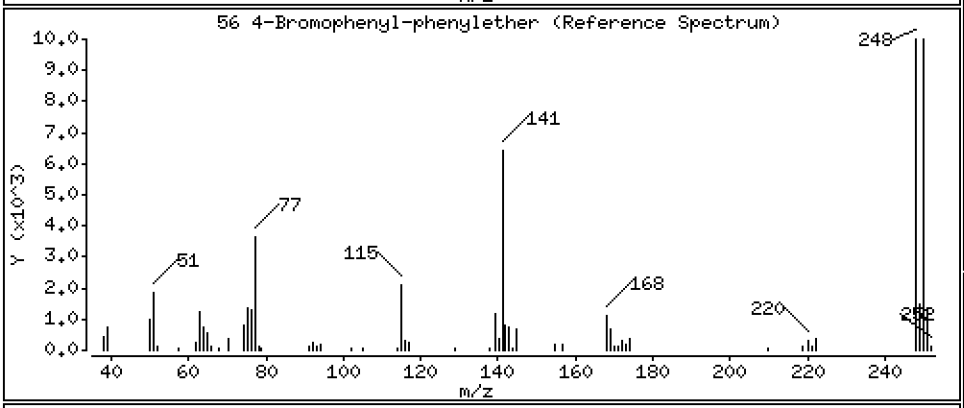
Concentration: 5.060 ug/mL

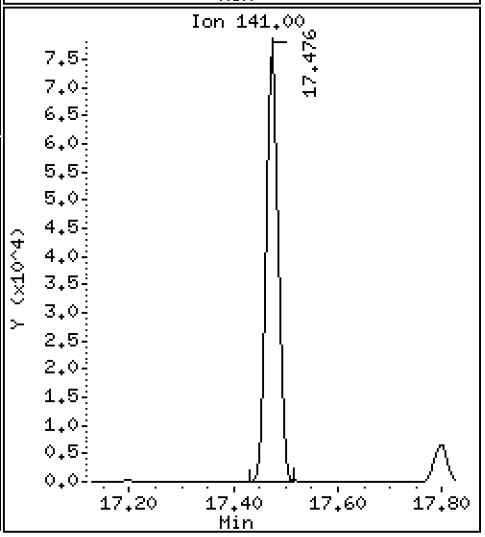


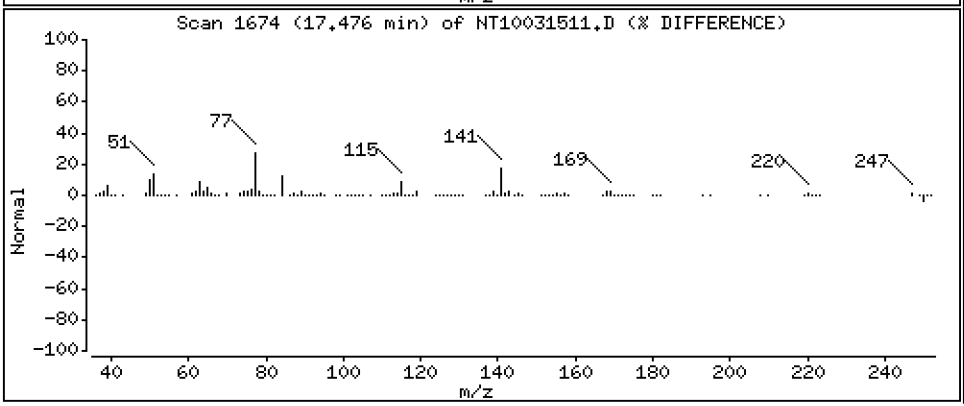












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

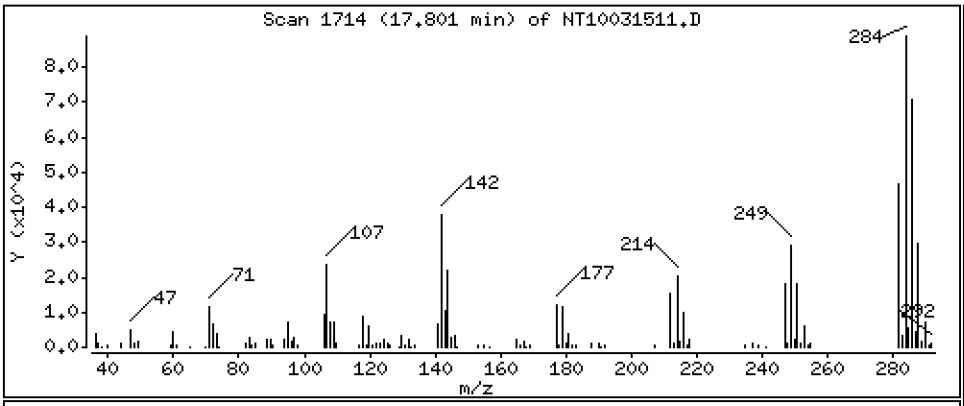
Operator: VTS

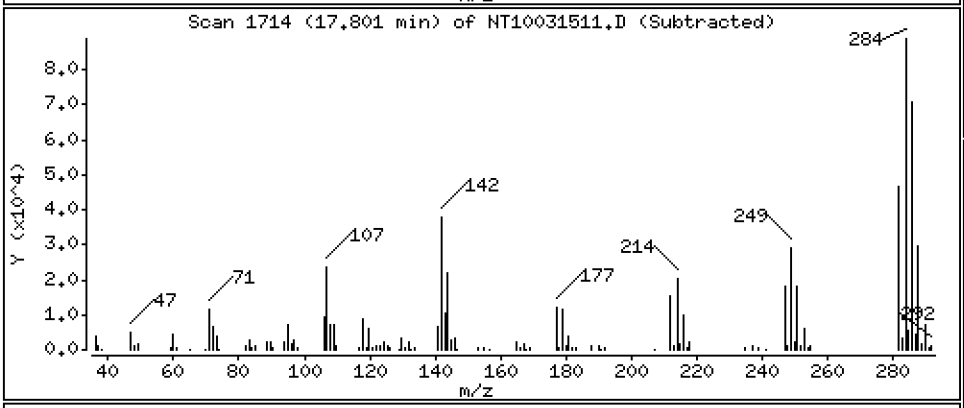
Column phase: ZB-5msi

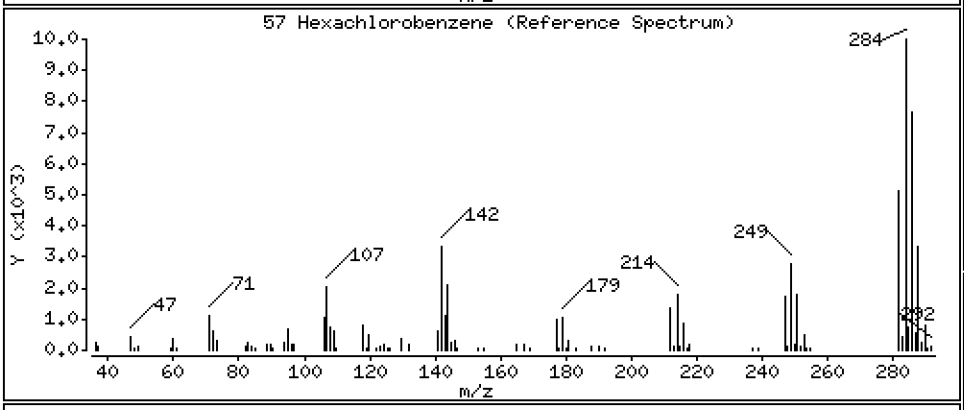
Column diameter: 0.25

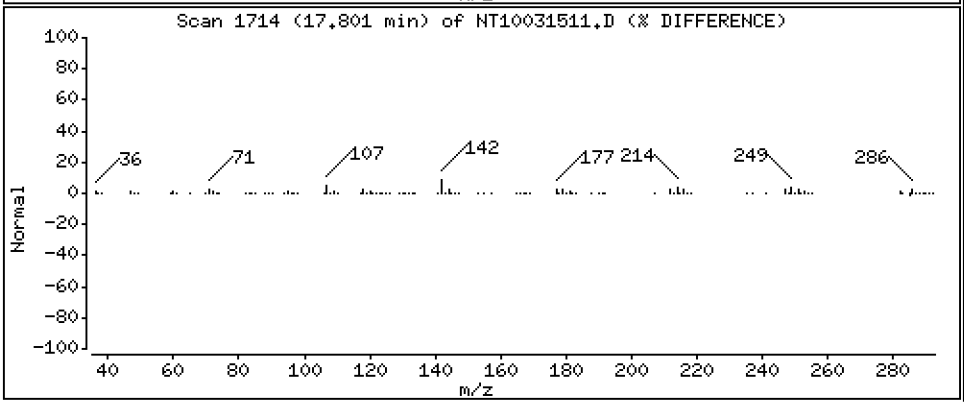
57 Hexachlorobenzene

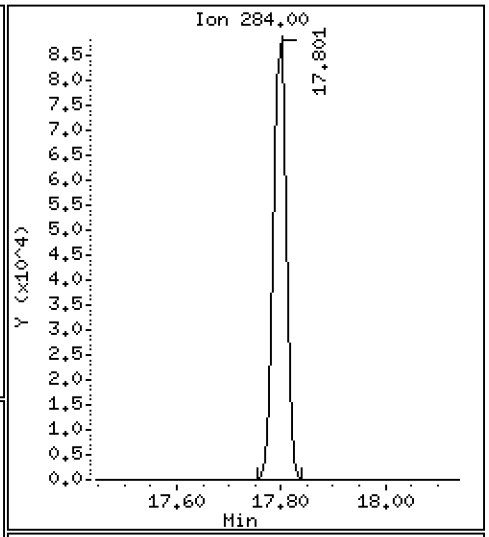
Concentration: 4.596 ug/mL

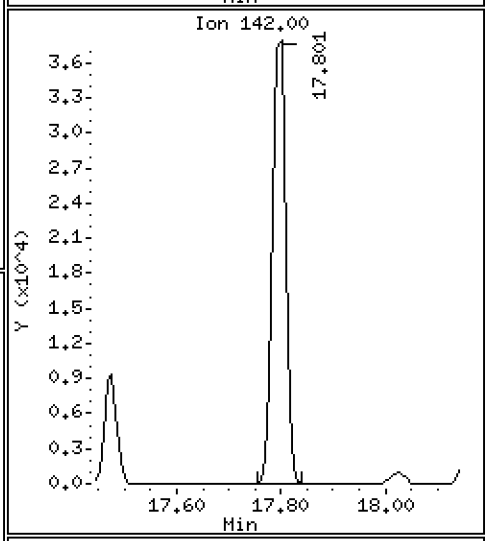


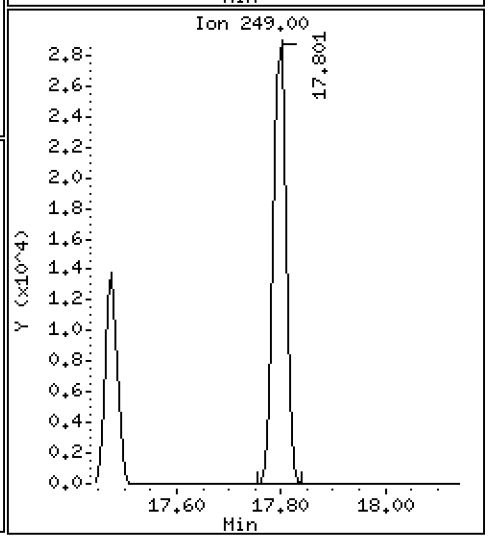












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

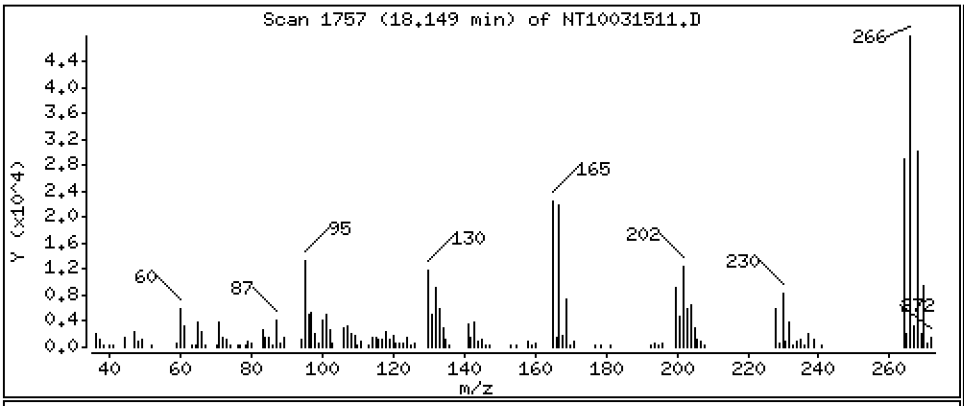
Operator: VTS

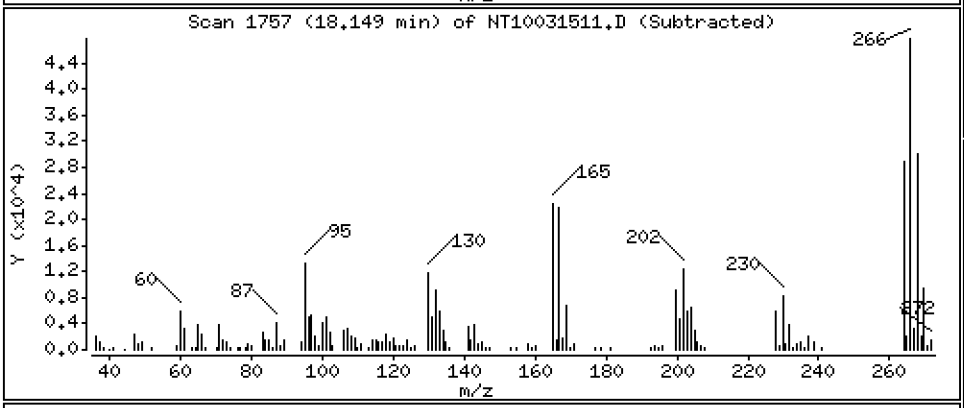
Column phase: ZB-5msi

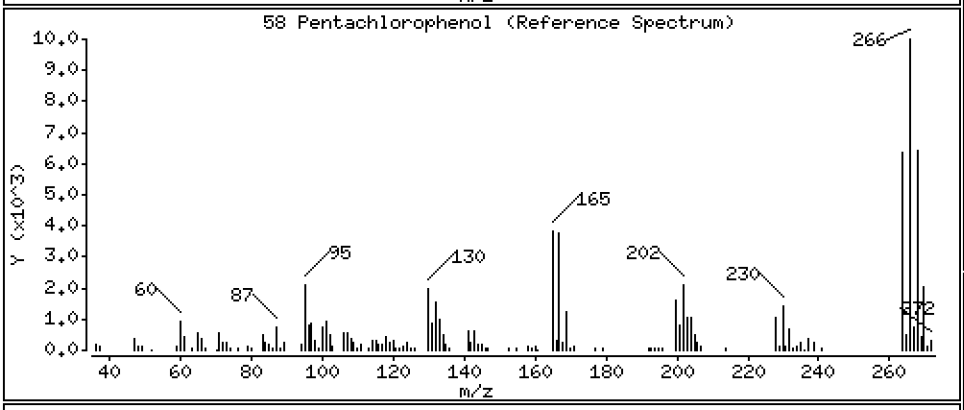
Column diameter: 0.25

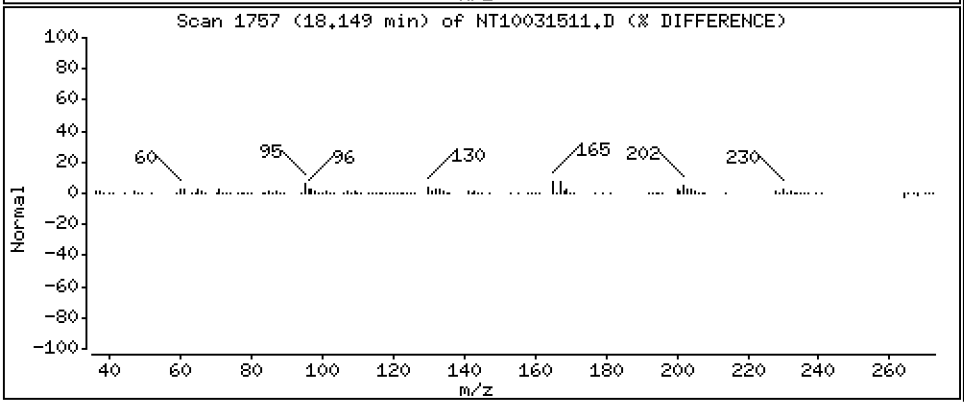
58 Pentachlorophenol

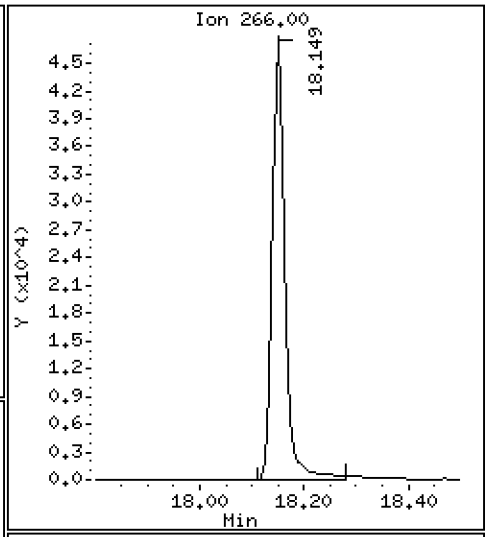
Concentration: 4.057 ug/mL

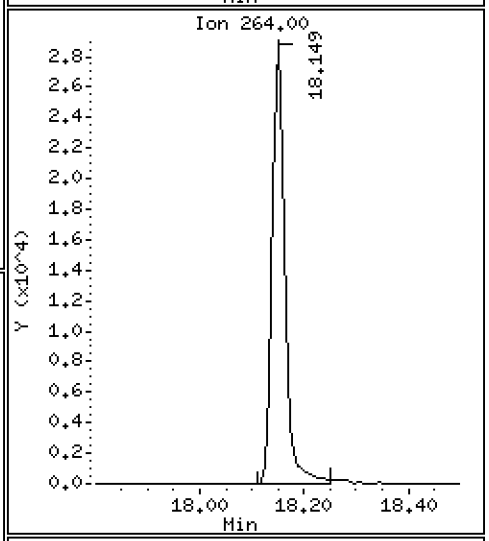


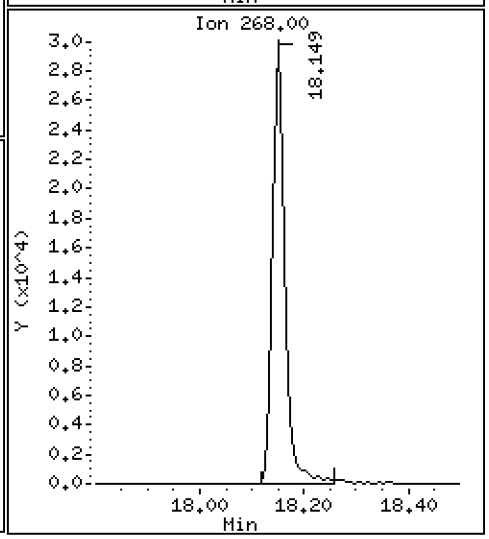












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

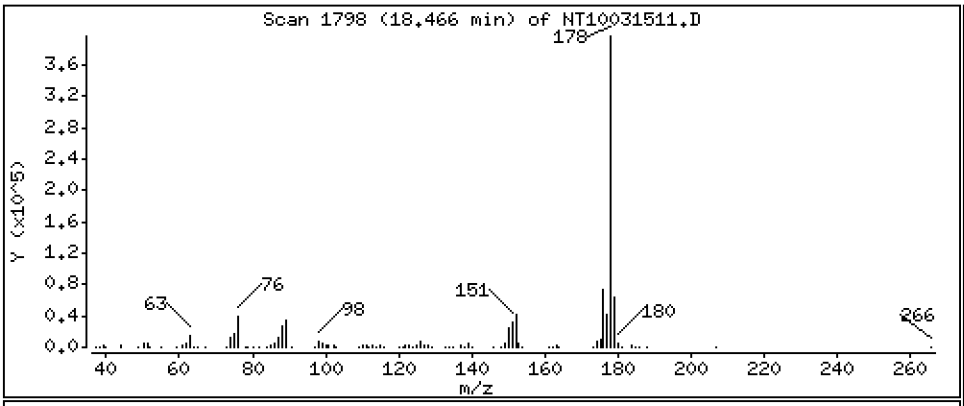
Operator: VTS

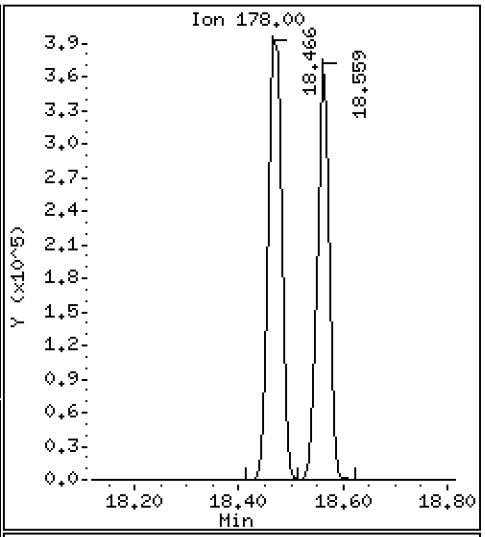
Column phase: ZB-5msi

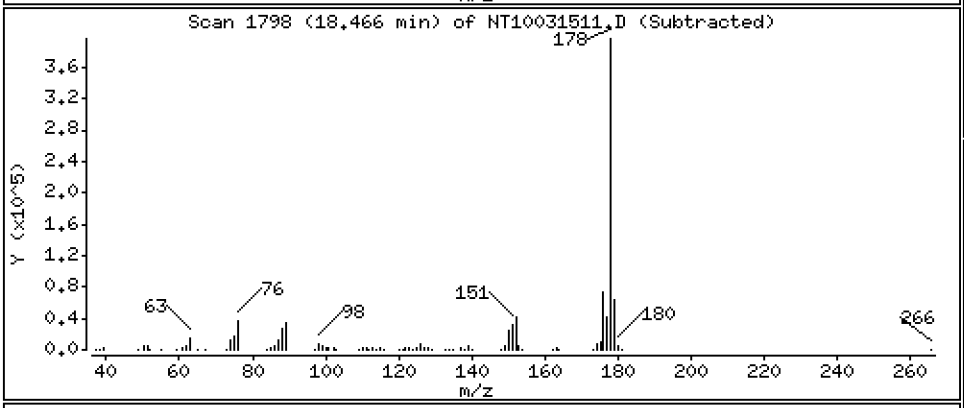
Column diameter: 0.25

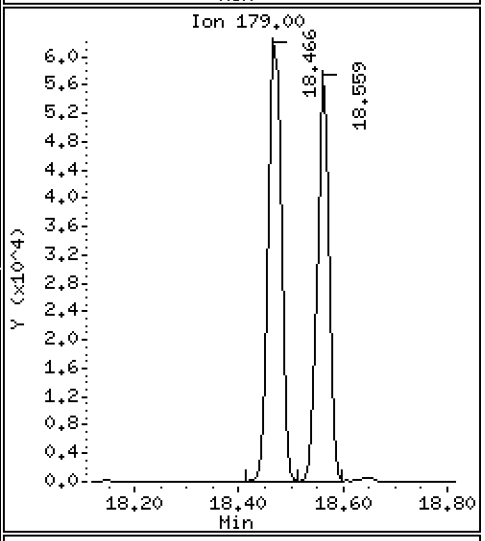
60 Phenanthrene

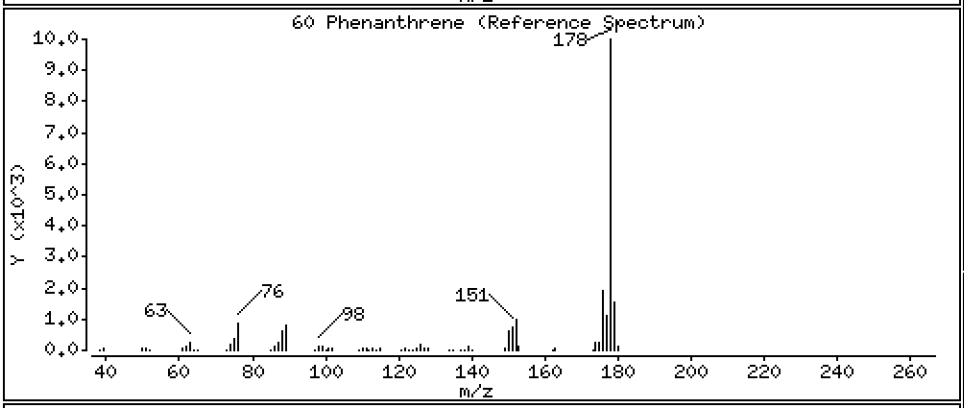
Concentration: 4.602 ug/mL

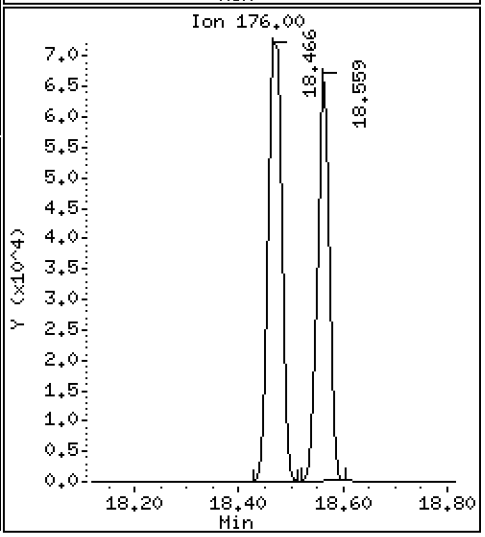


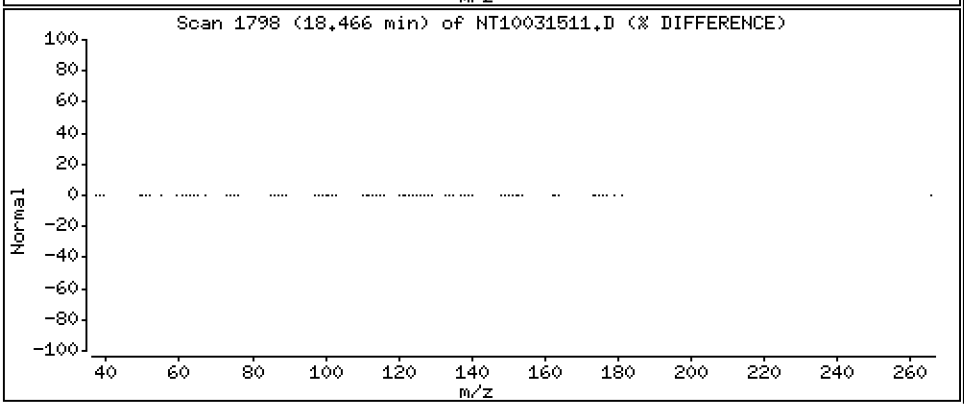












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

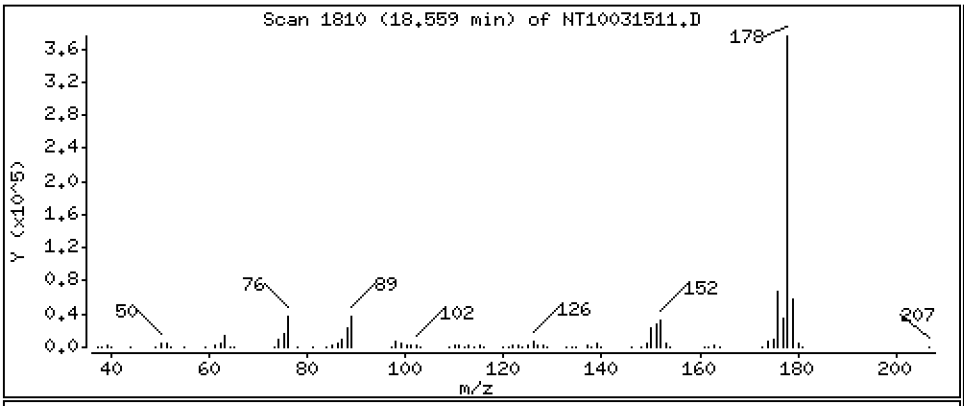
Operator: VTS

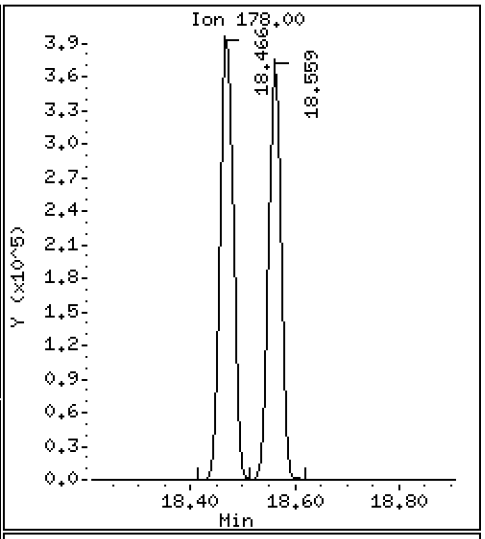
Column phase: ZB-5msi

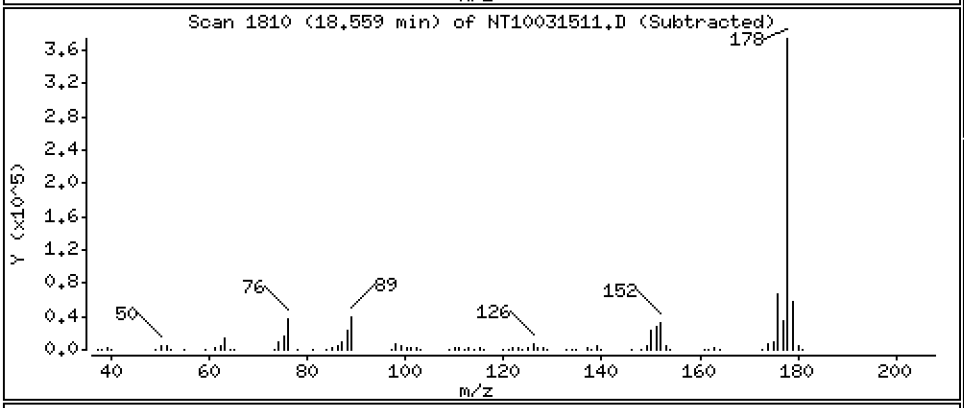
Column diameter: 0.25

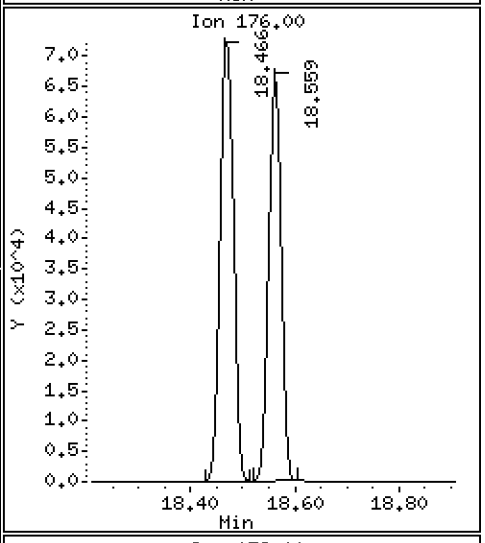
61 Anthracene

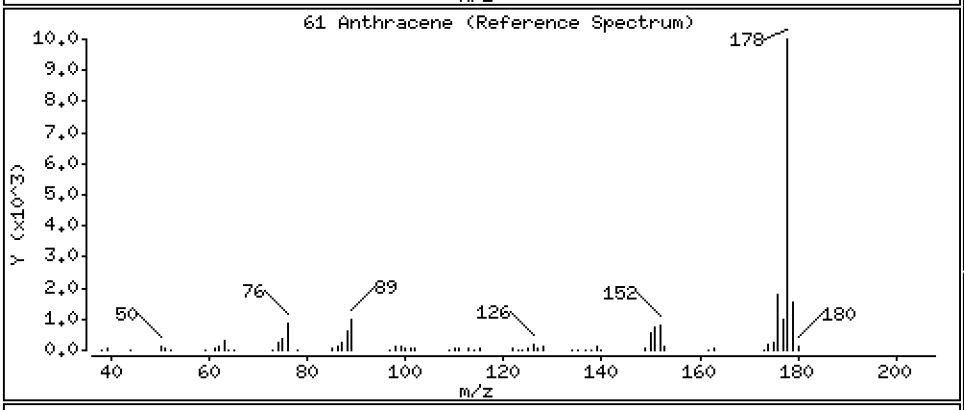
Concentration: 4.167 ug/mL

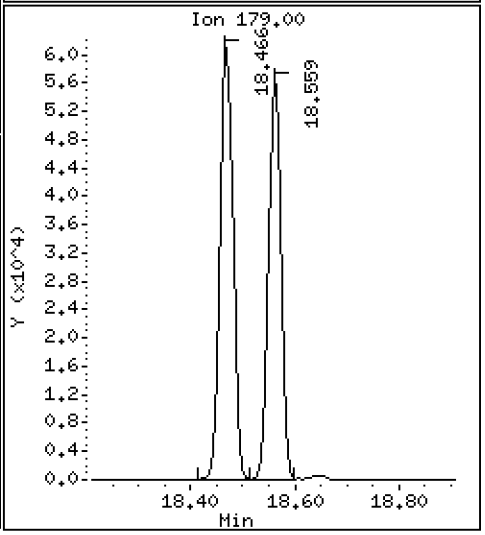


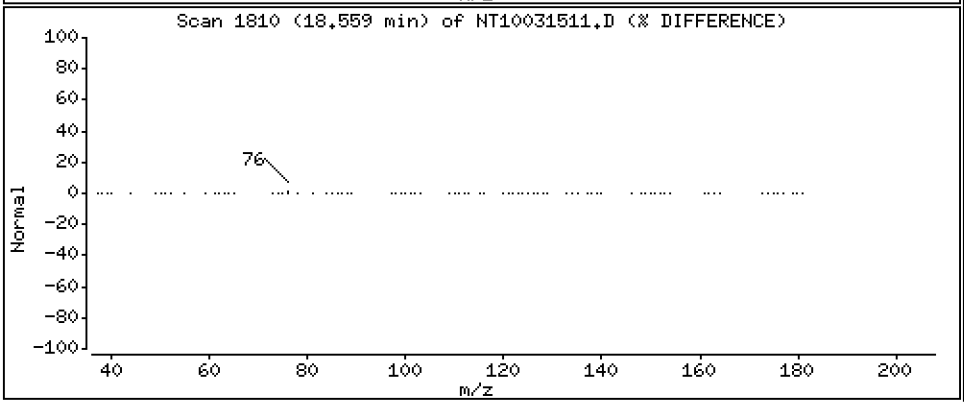












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

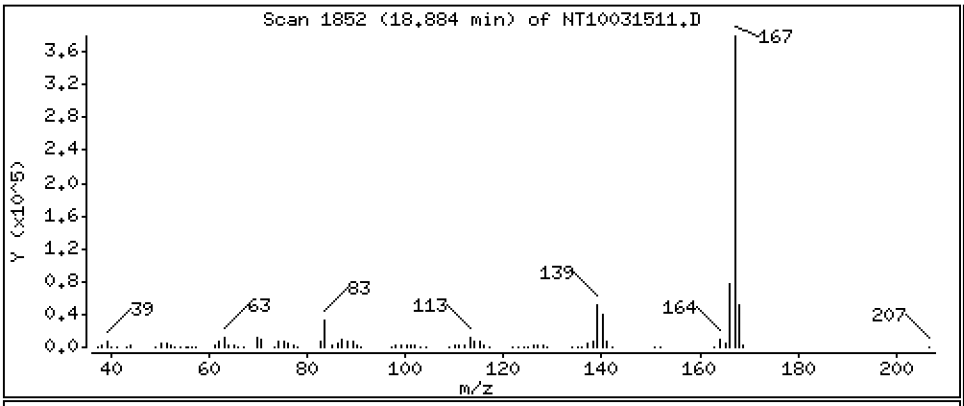
Operator: VTS

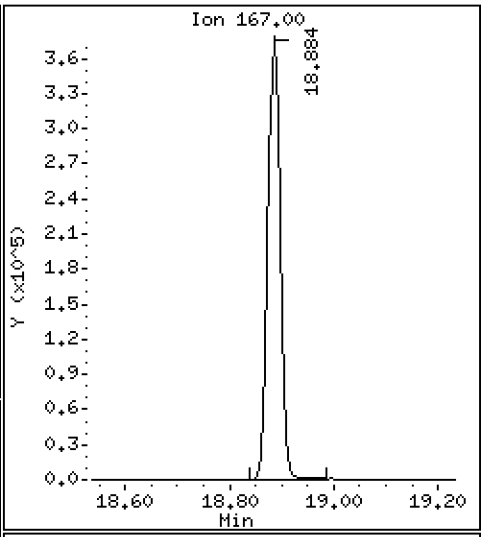
Column phase: ZB-5msi

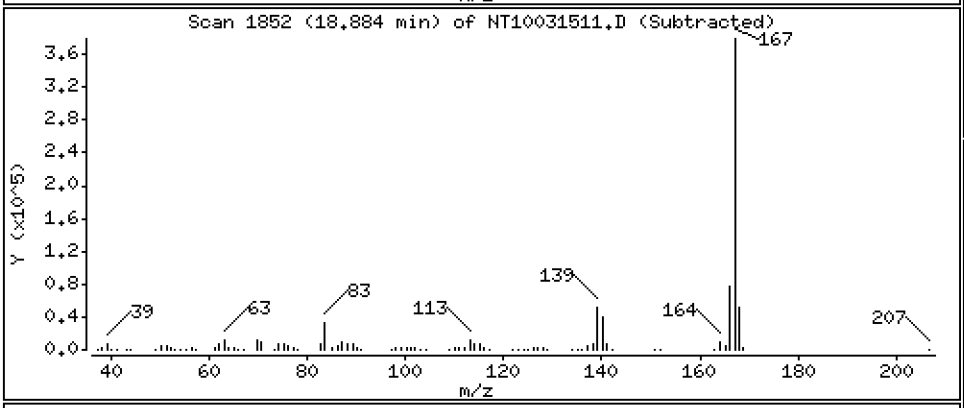
Column diameter: 0.25

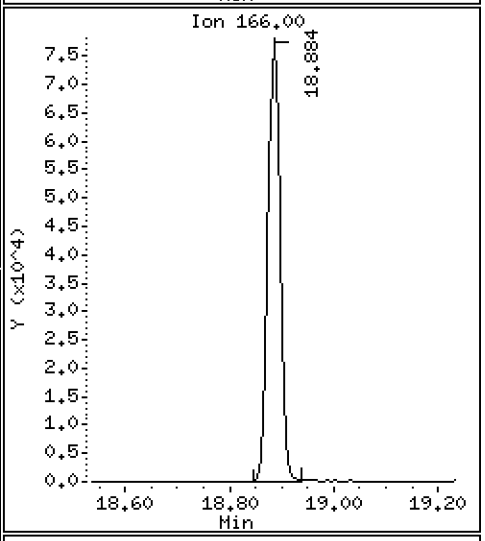
62 Carbazole

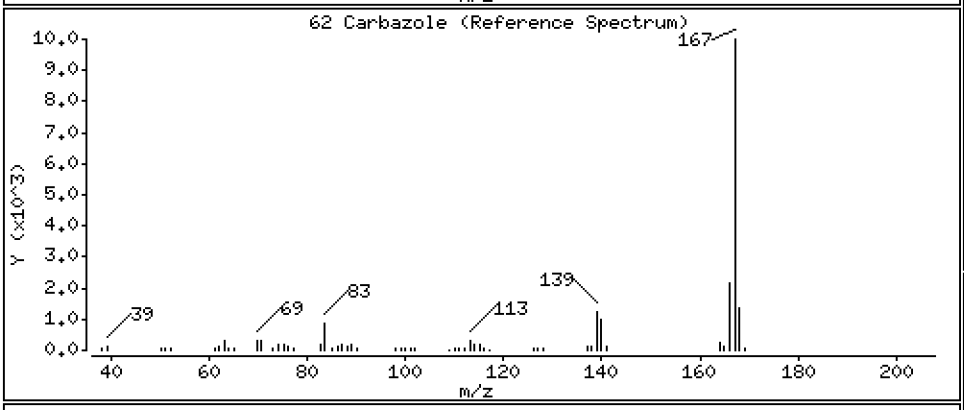
Concentration: 4.730 ug/mL

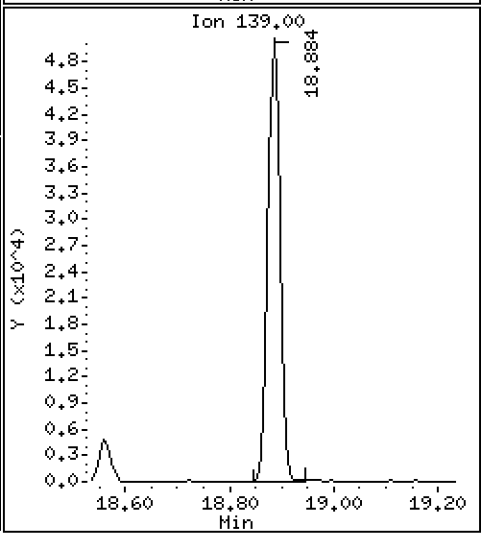


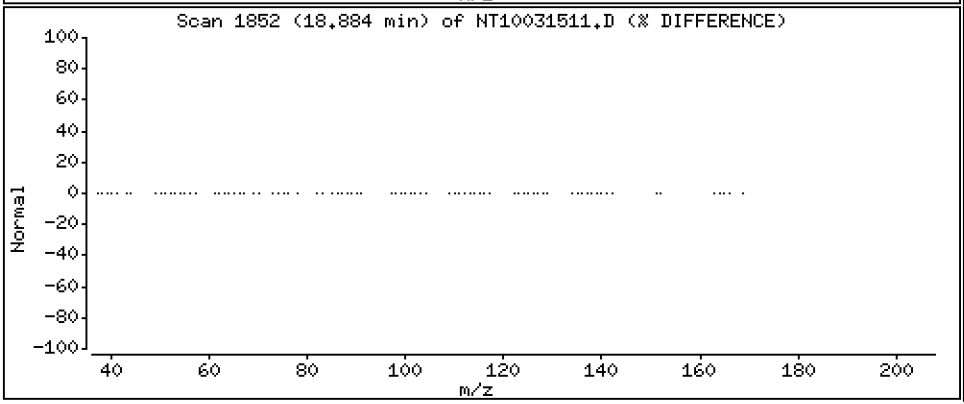












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

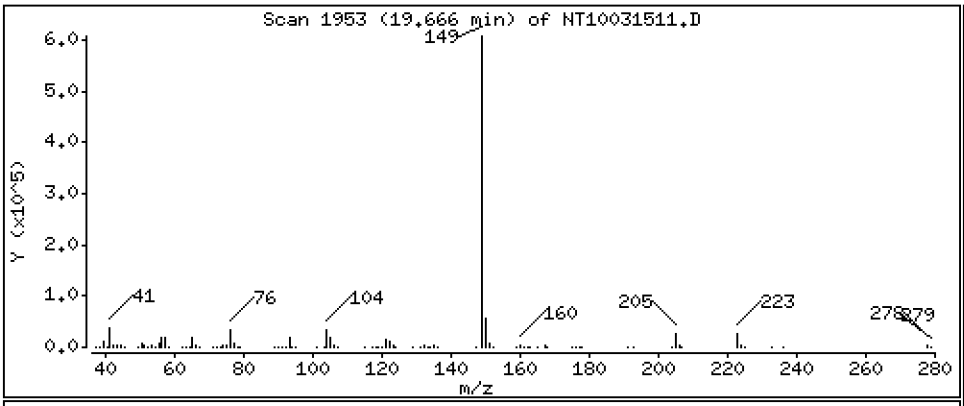
Operator: VTS

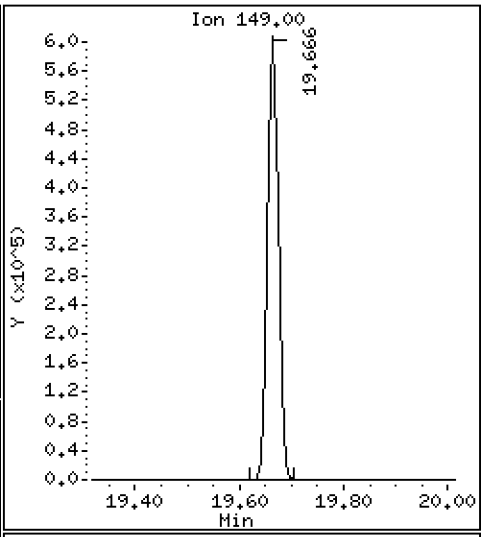
Column phase: ZB-5msi

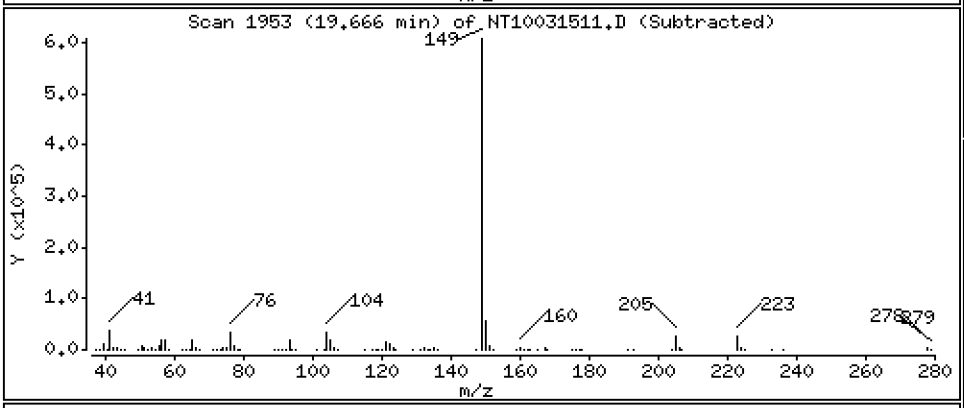
Column diameter: 0.25

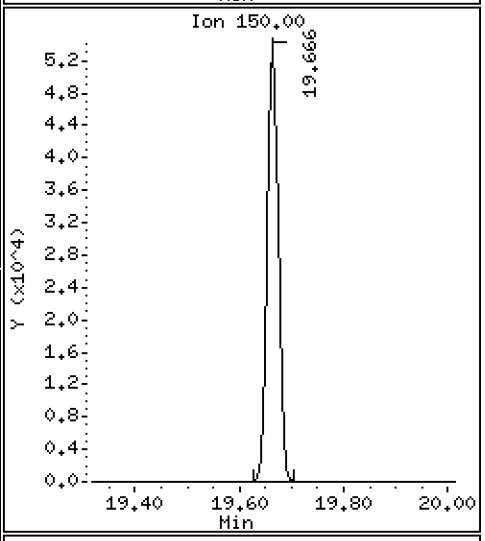
63 Di-n-butylphthalate

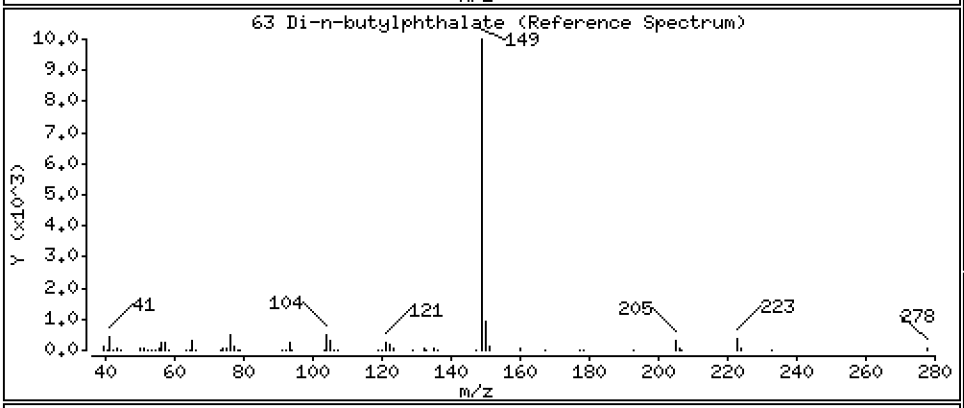
Concentration: 4.967 ug/mL

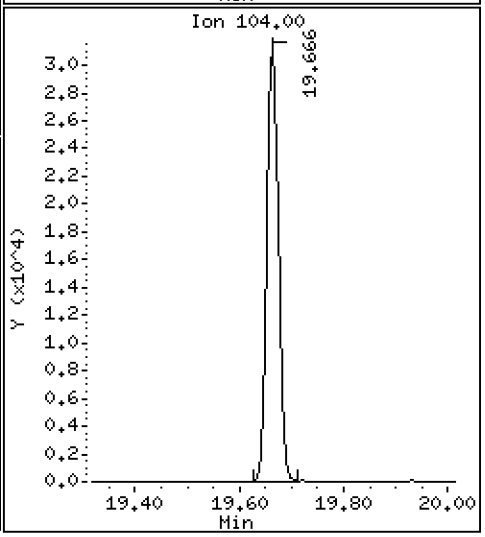


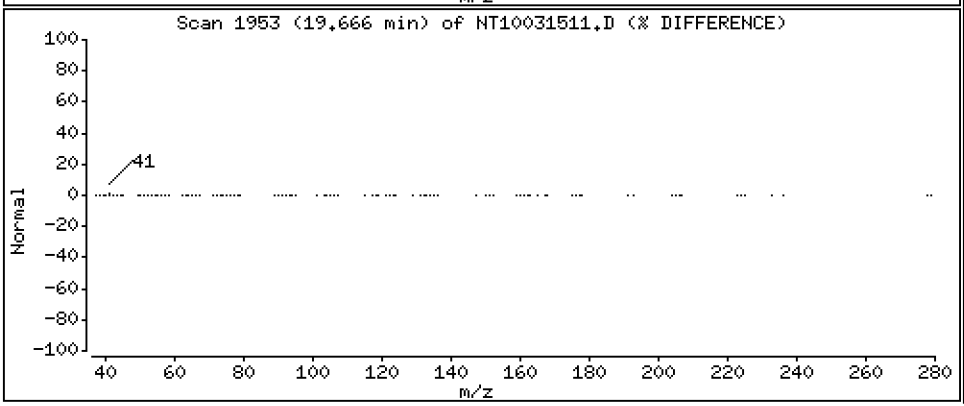












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

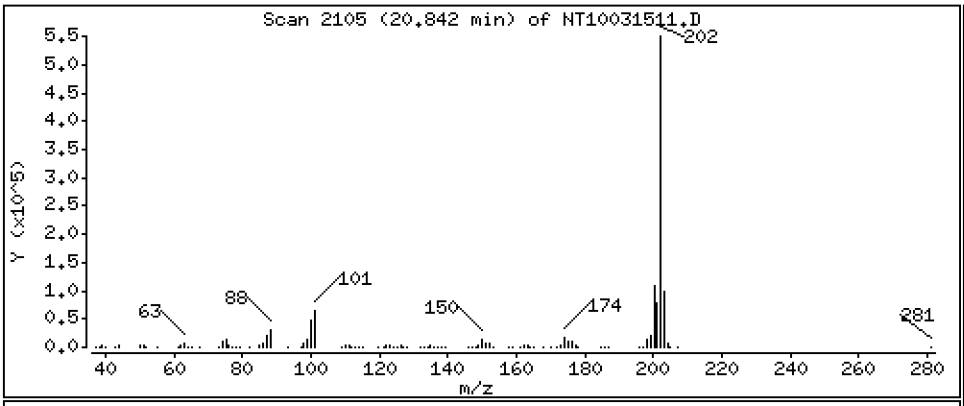
Operator: VTS

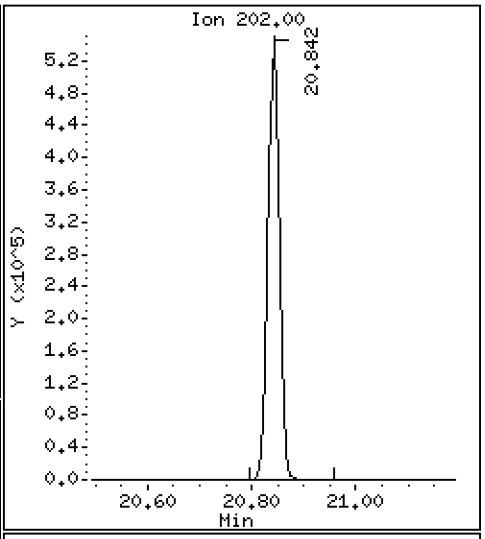
Column phase: ZB-5msi

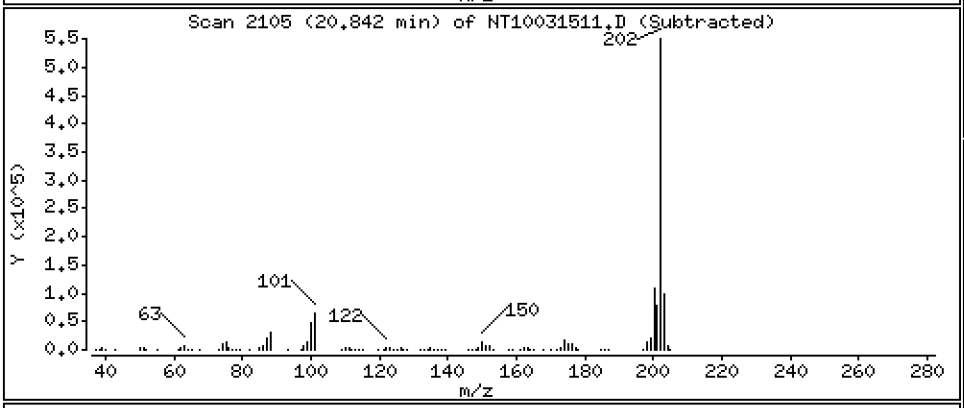
Column diameter: 0.25

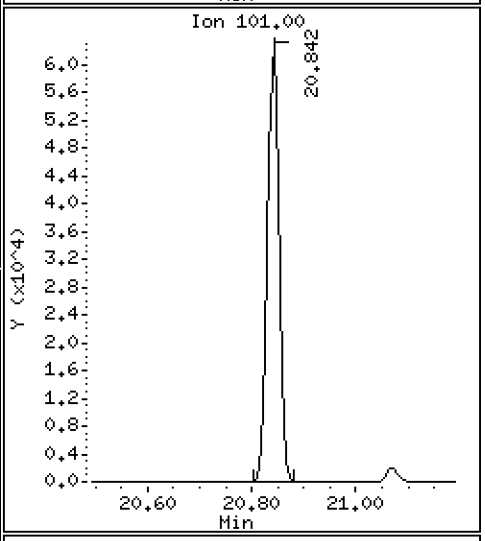
64 Fluoranthene

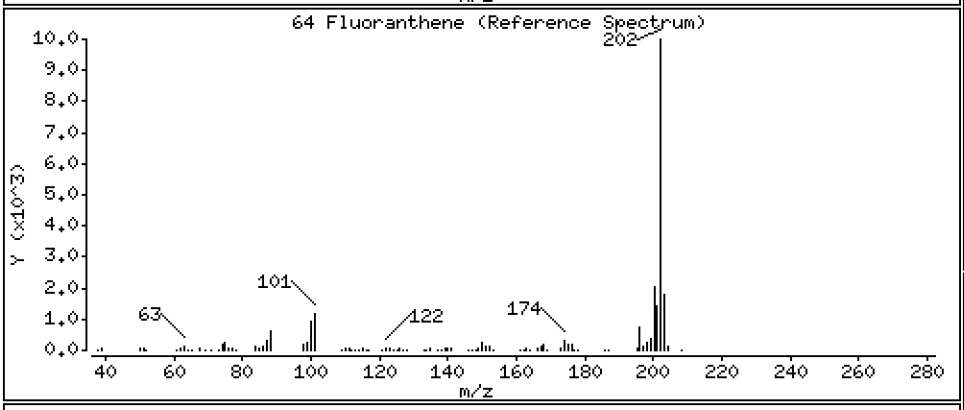
Concentration: 4.472 ug/mL

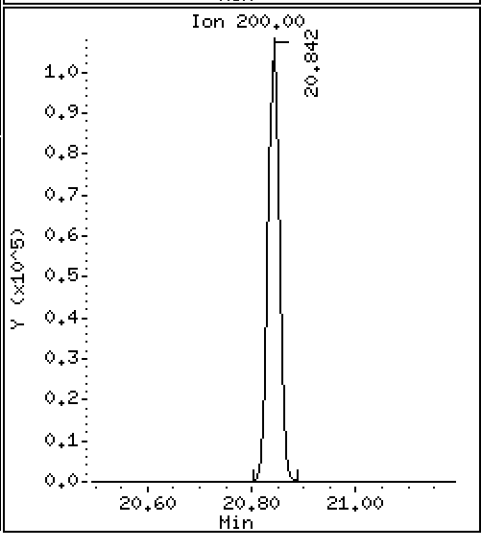


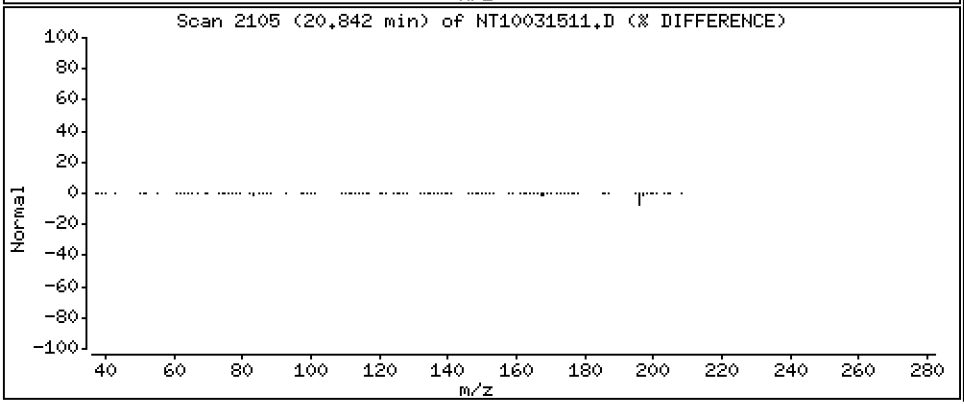












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

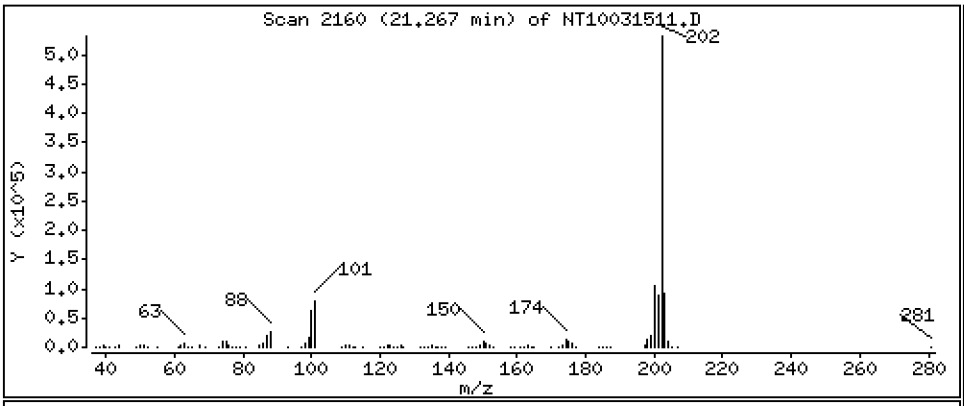
Operator: VTS

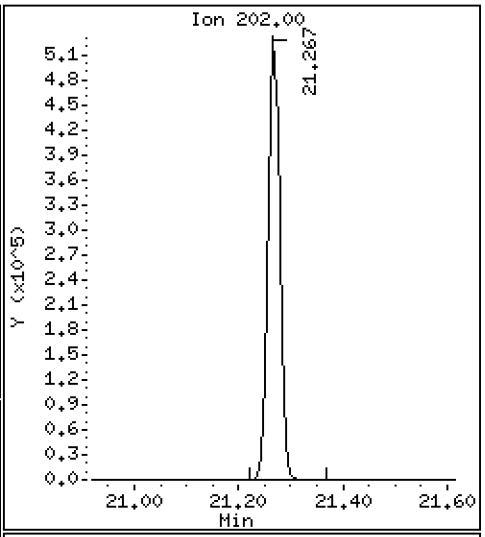
Column phase: ZB-5msi

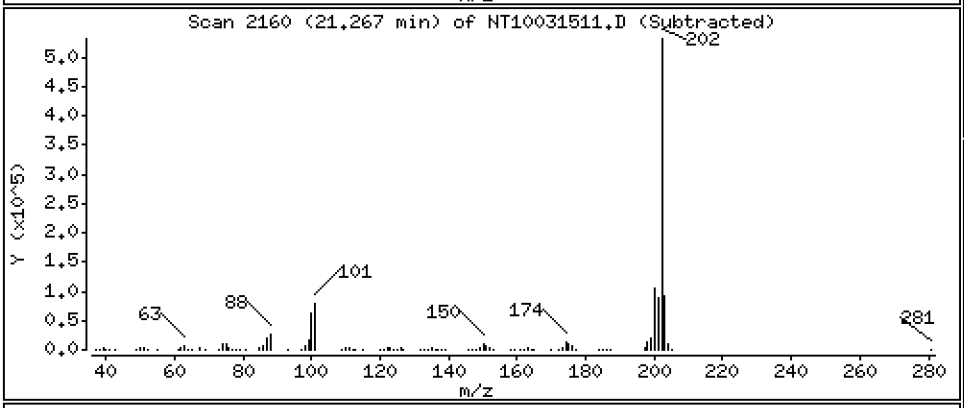
Column diameter: 0.25

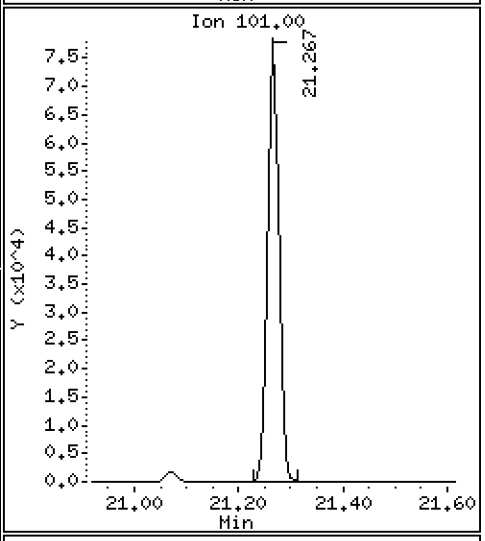
65 Pyrene

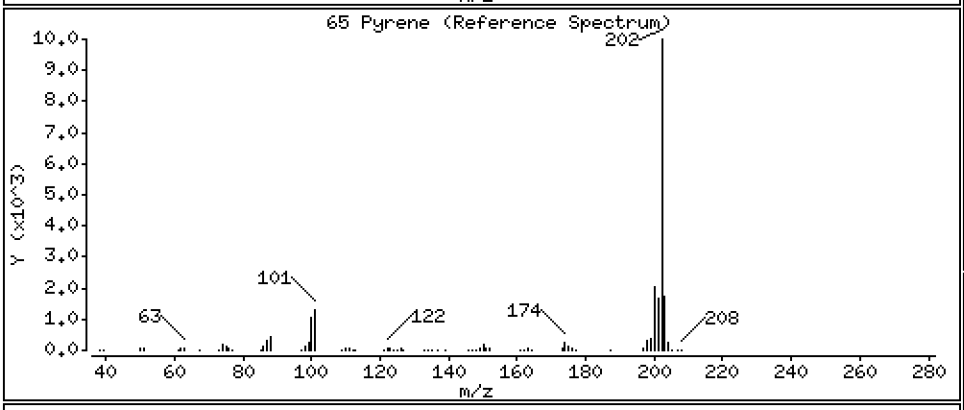
Concentration: 4.339 ug/mL

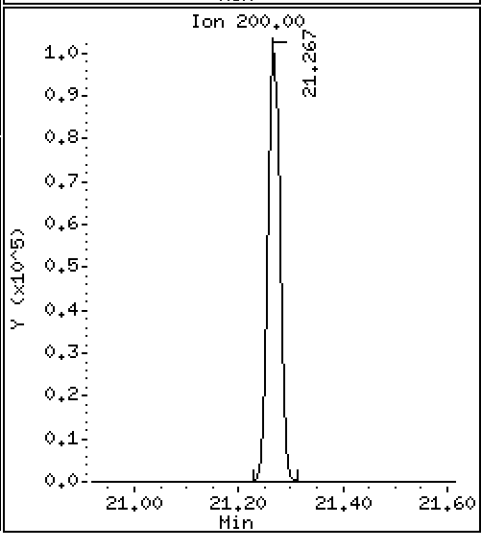


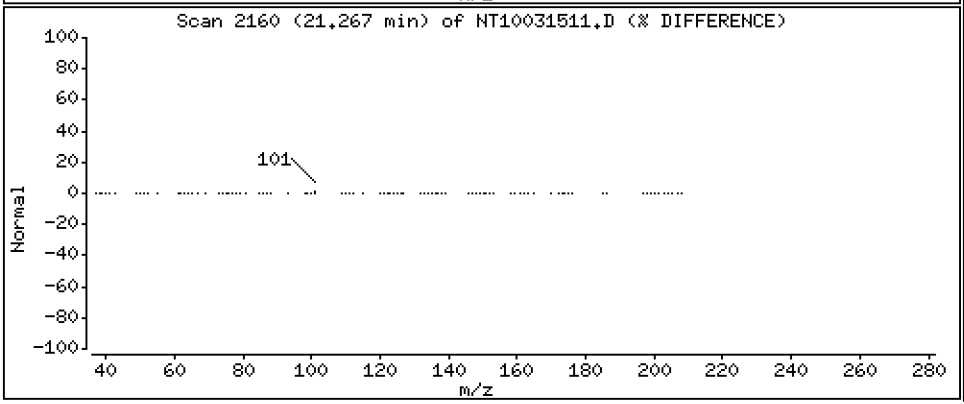












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

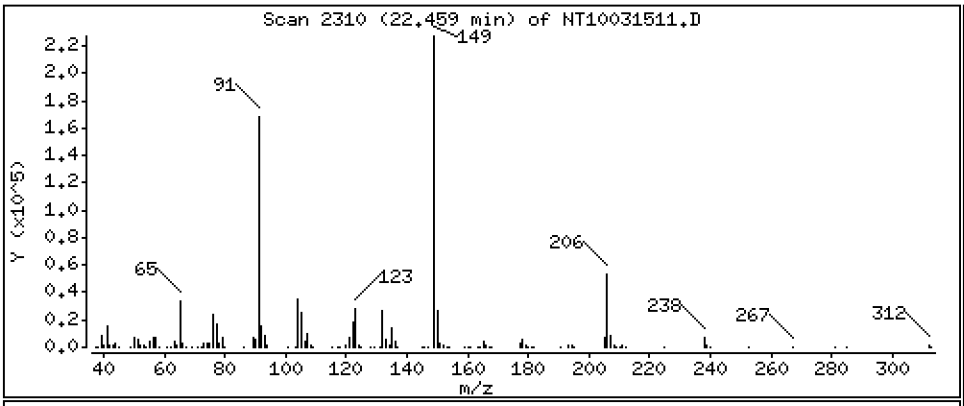
Operator: VTS

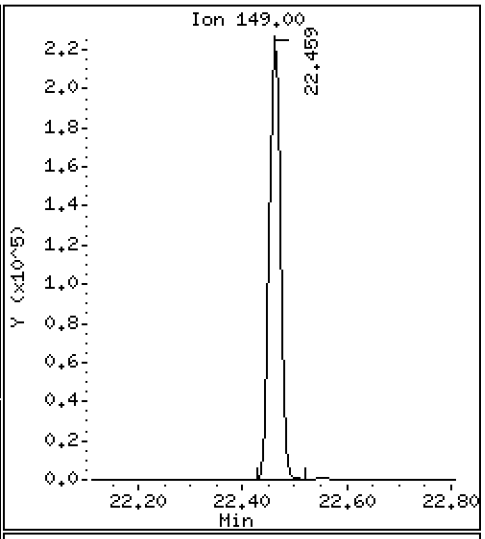
Column phase: ZB-5msi

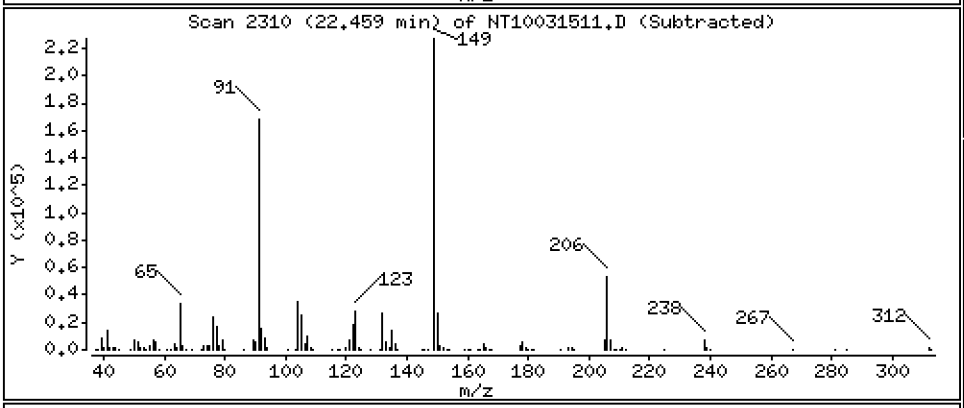
Column diameter: 0.25

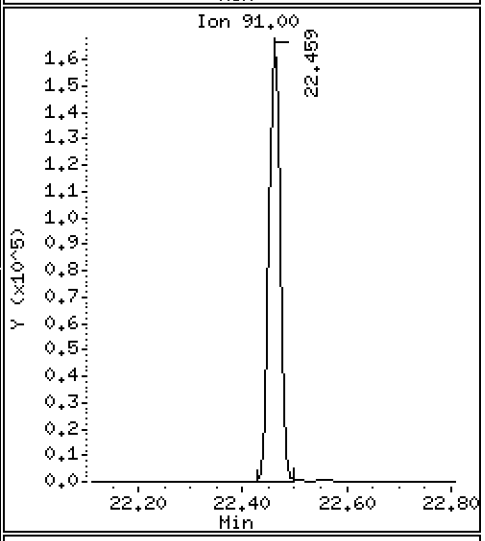
67 Butylbenzylphthalate

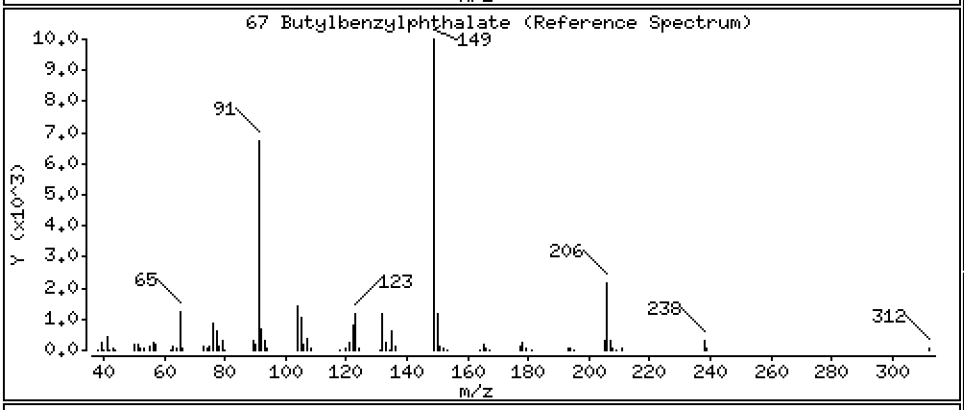
Concentration: 4.834 ug/mL

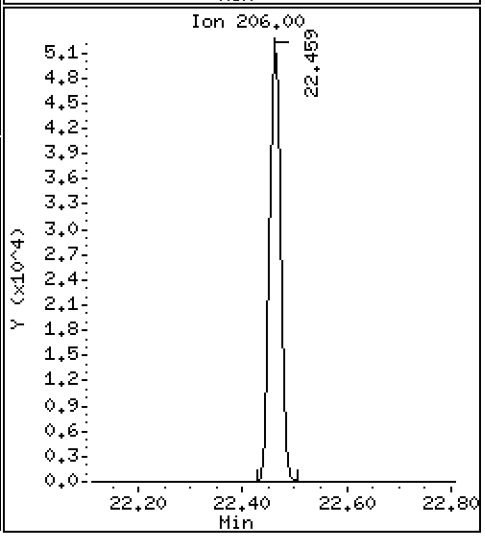


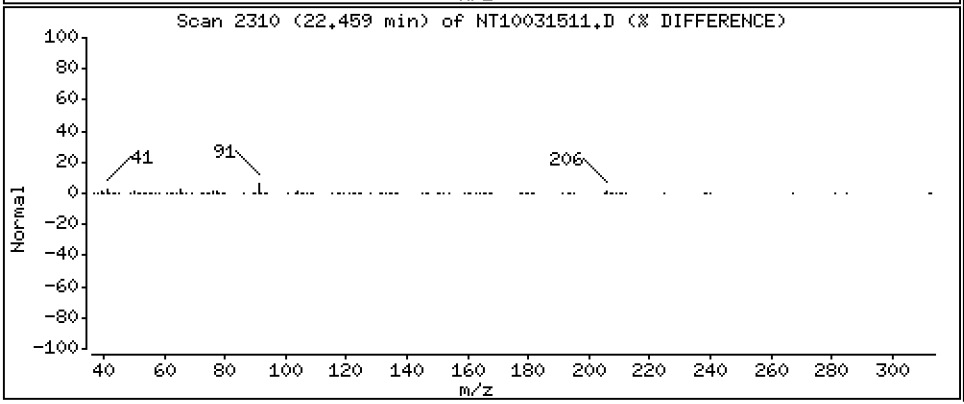












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

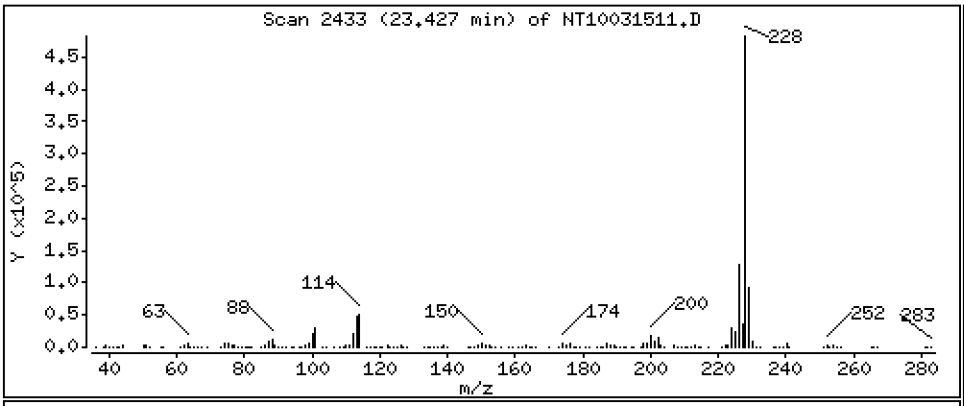
Operator: VTS

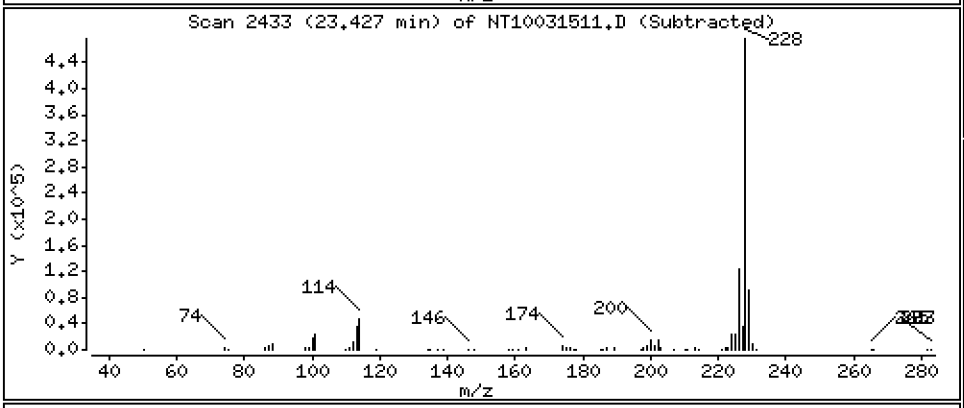
Column phase: ZB-5msi

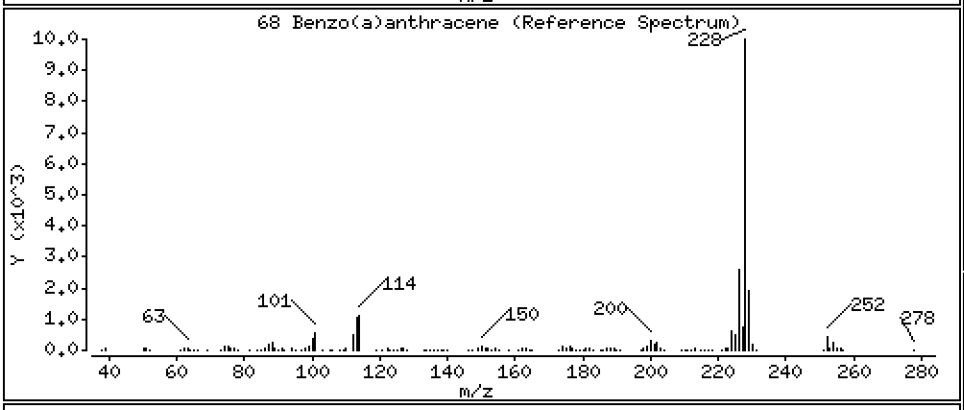
Column diameter: 0.25

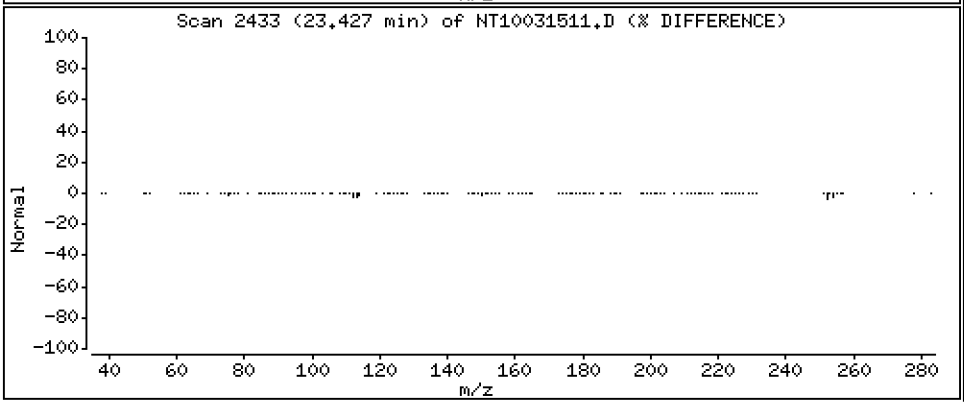
68 Benzo(a)anthracene

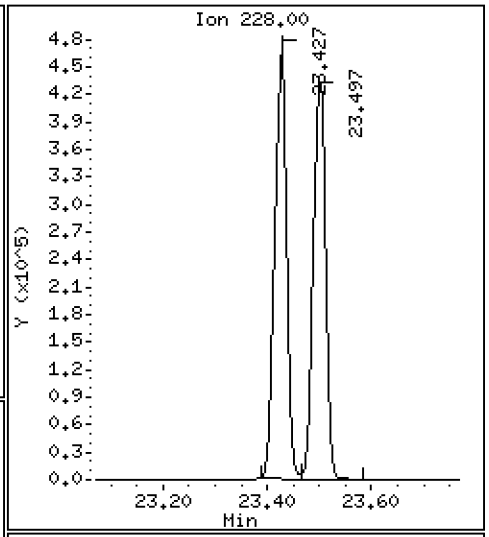
Concentration: 4.647 ug/mL

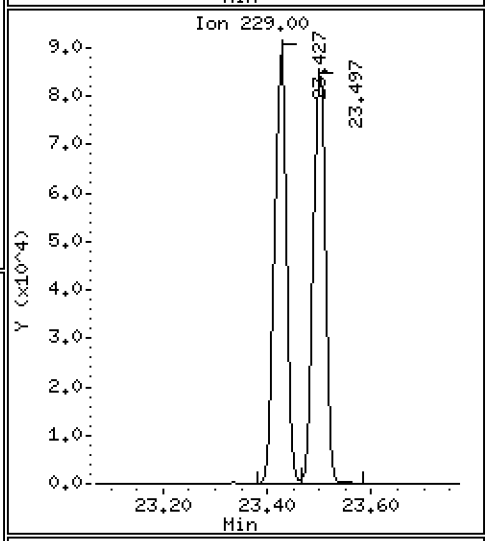


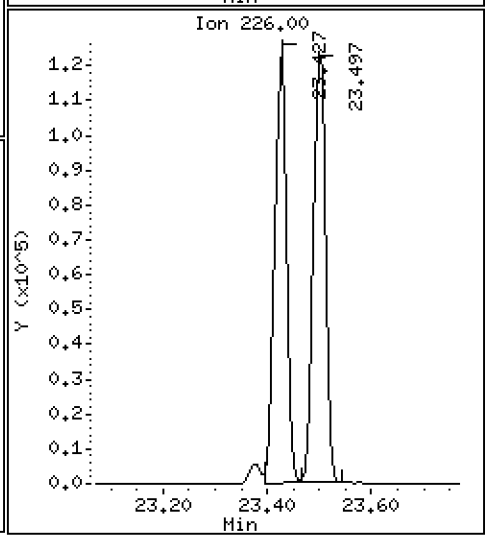












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

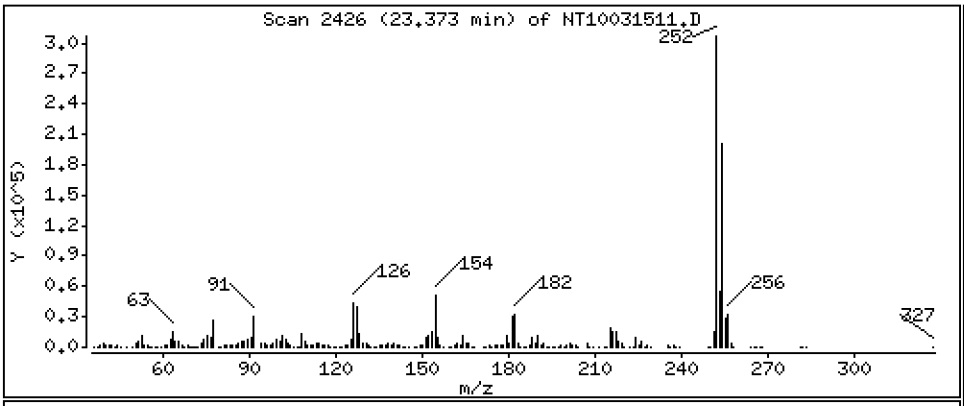
Operator: VTS

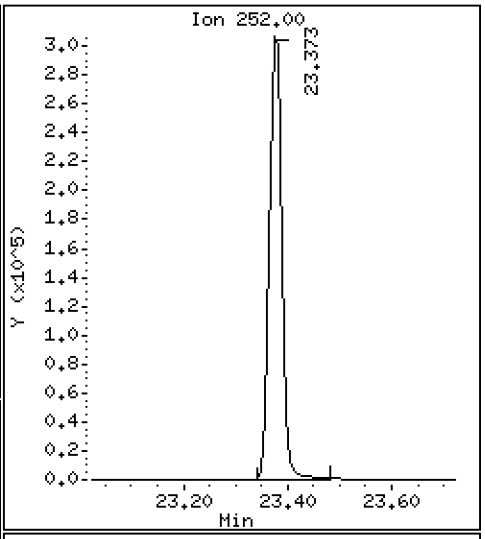
Column phase: ZB-5msi

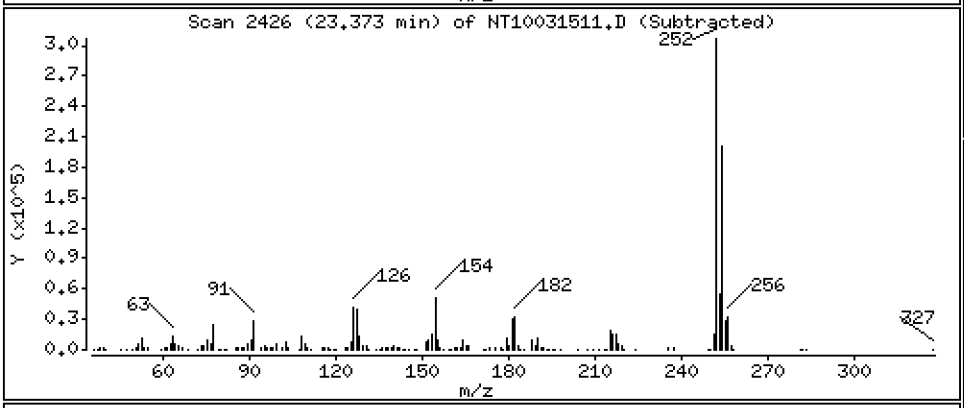
Column diameter: 0.25

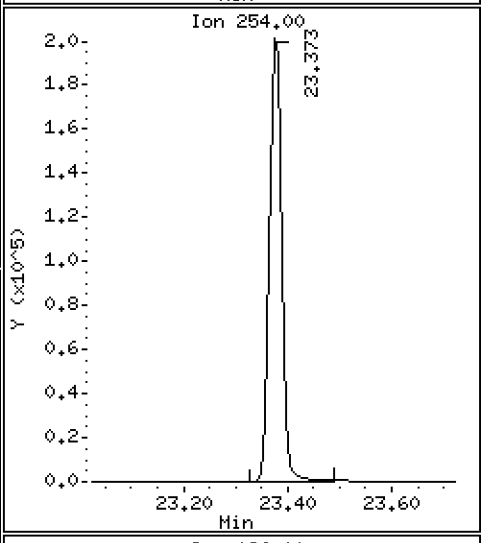
70 3,3'-Dichlorobenzidine

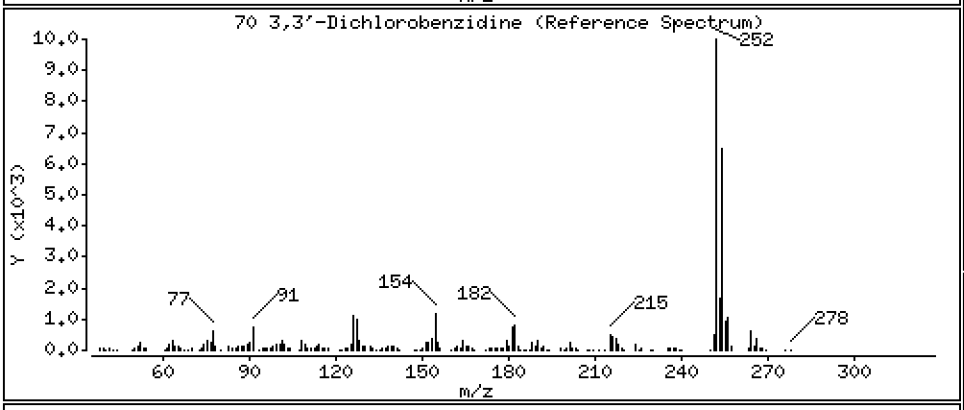
Concentration: 9.817 ug/mL

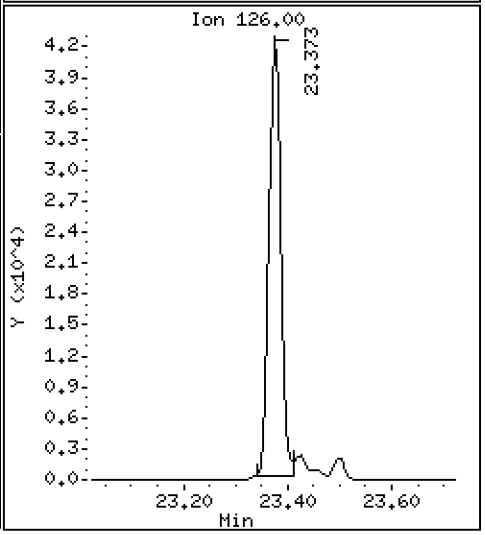


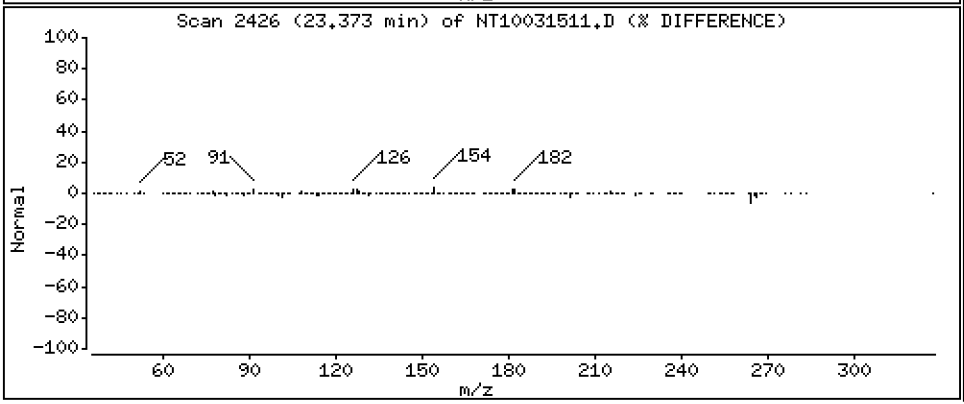












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

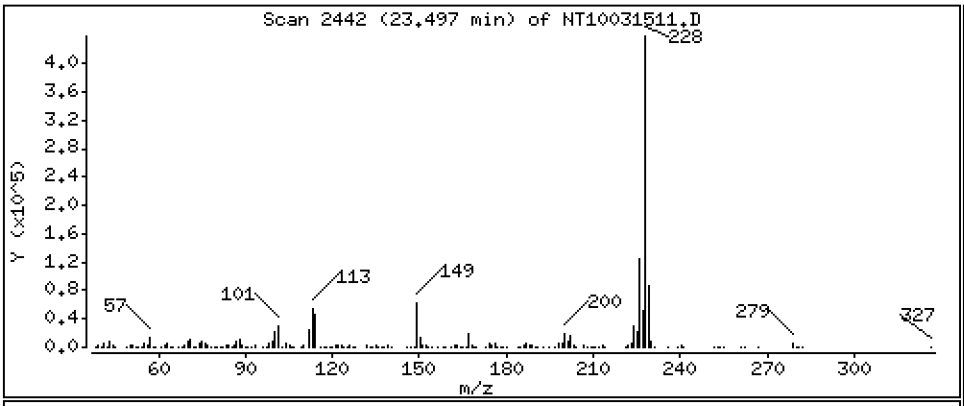
Operator: VTS

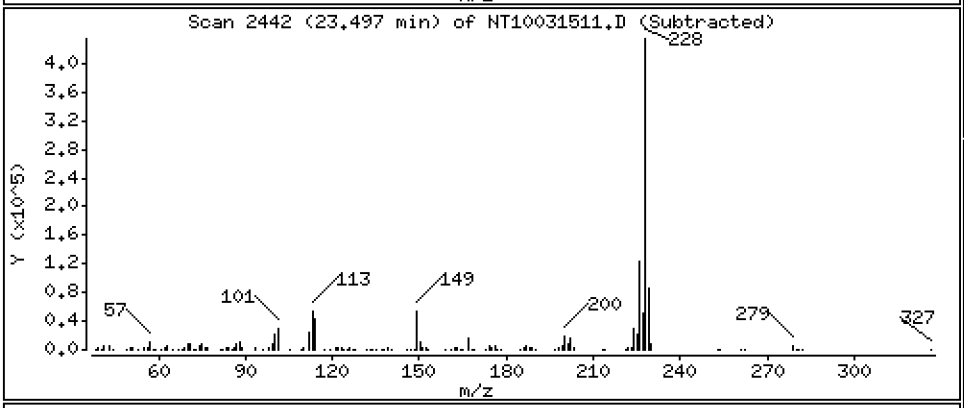
Column phase: ZB-5msi

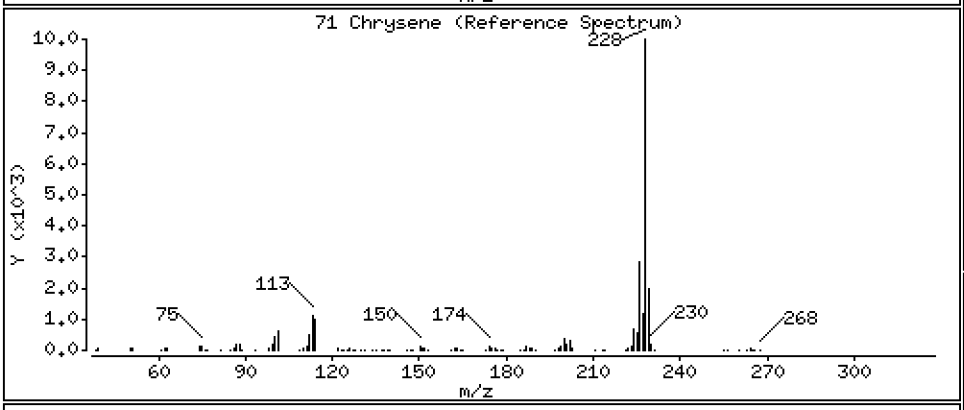
Column diameter: 0.25

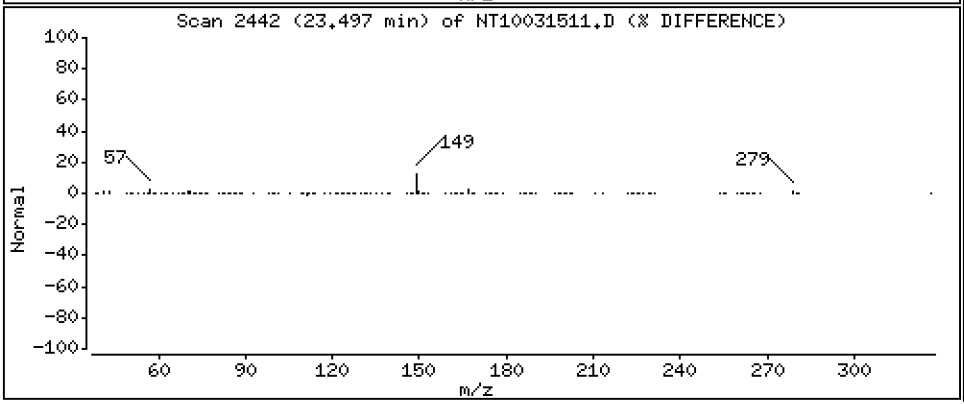
71 Chrysene

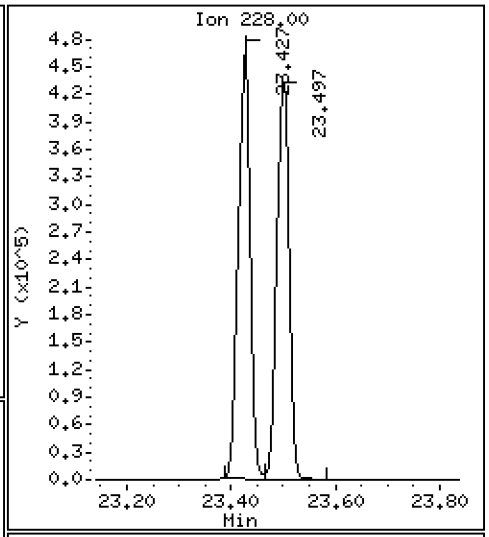
Concentration: 4.510 ug/mL

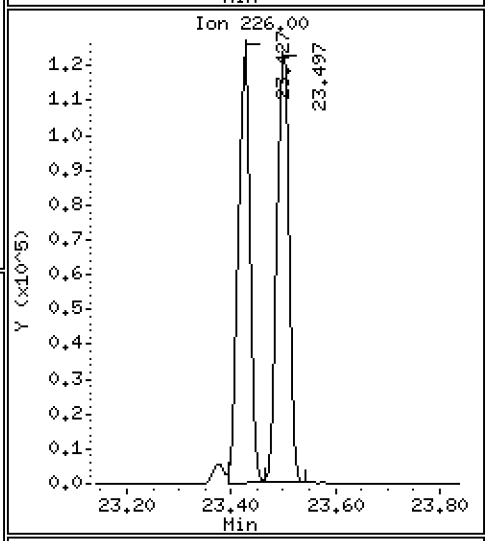


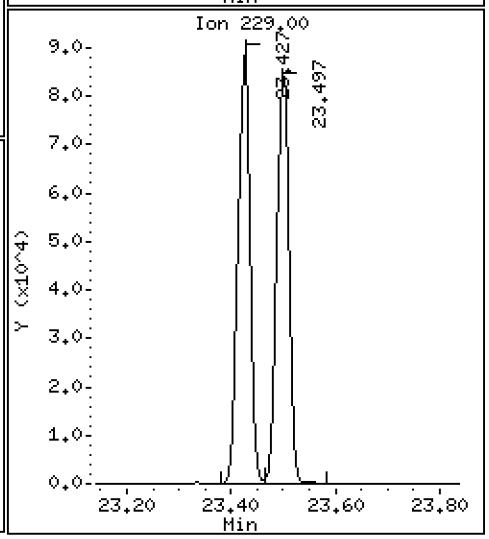












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

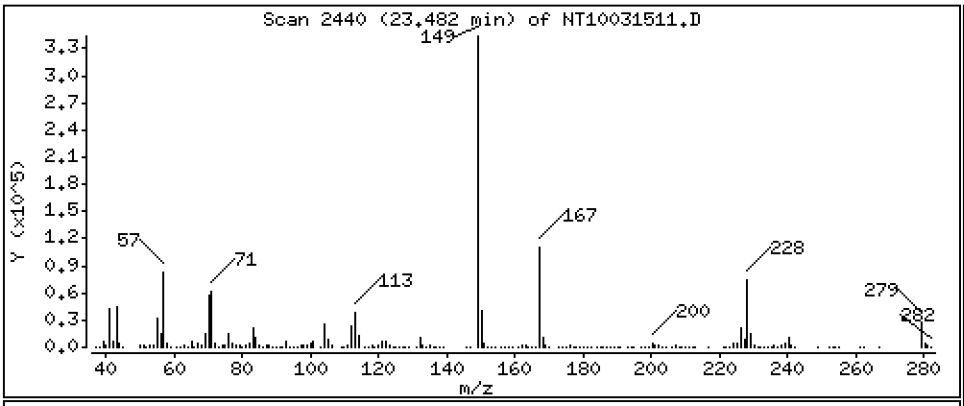
Operator: VTS

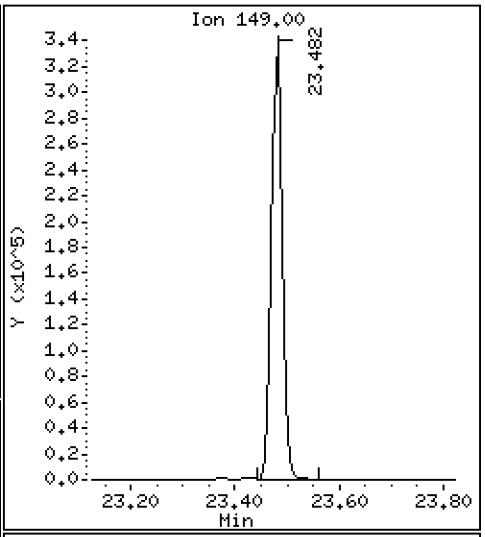
Column phase: ZB-5msi

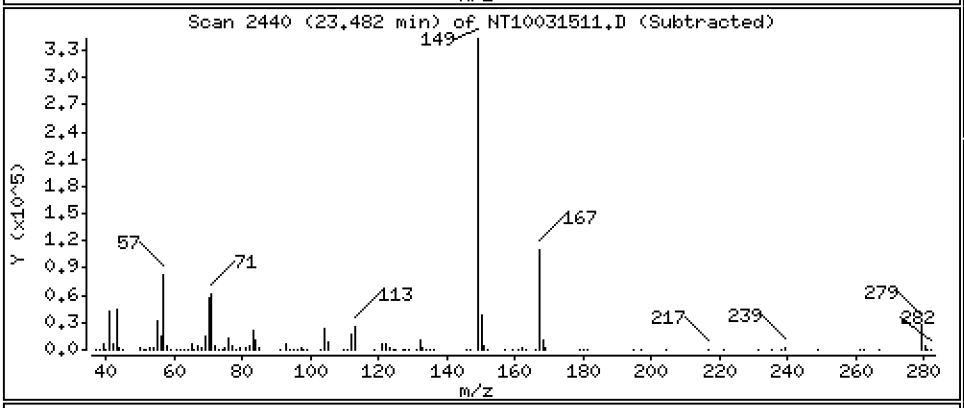
Column diameter: 0.25

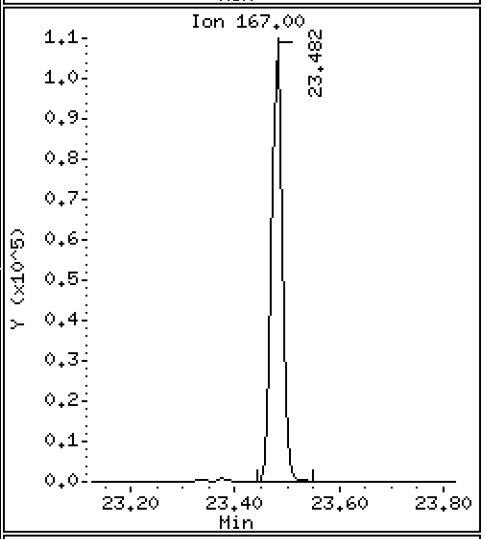
72 bis(2-Ethylhexyl)phthalate

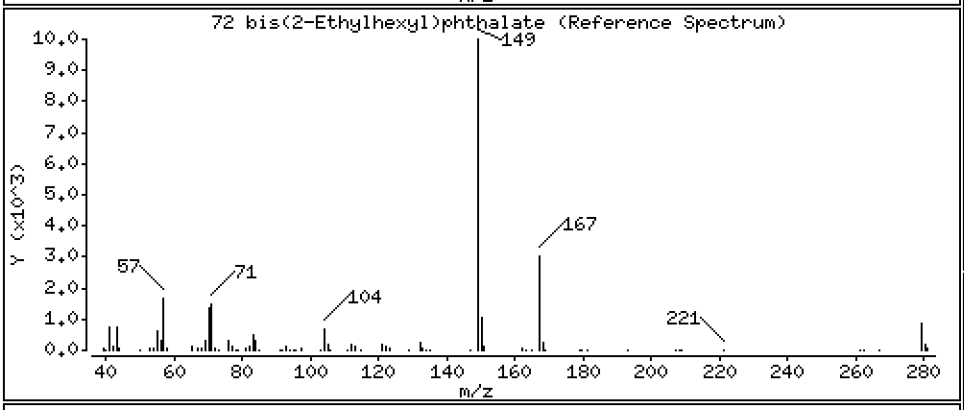
Concentration: 4.680 ug/mL

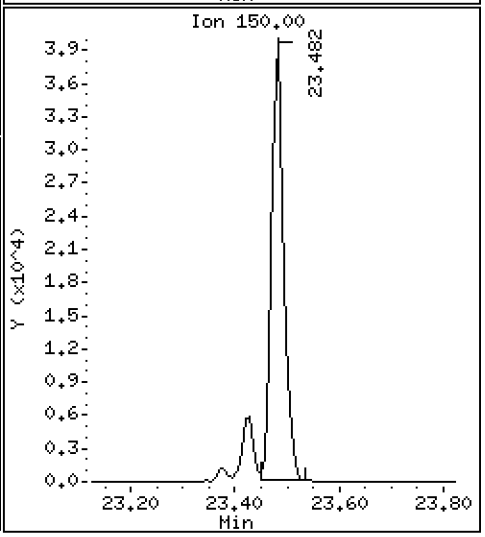


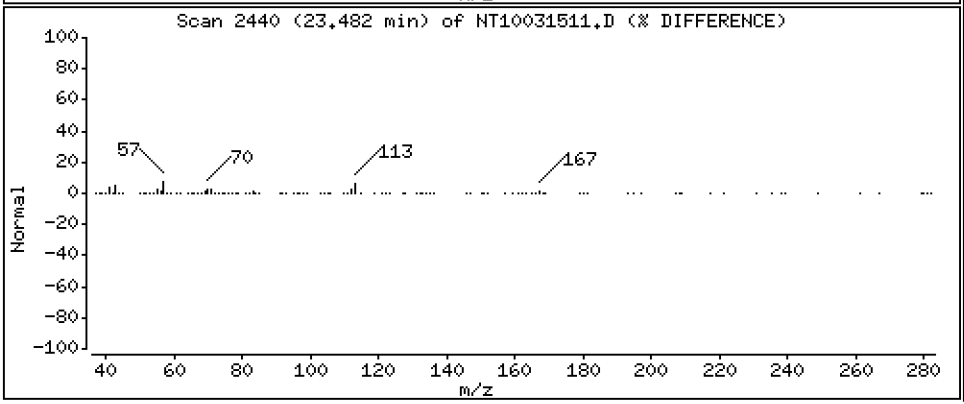












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

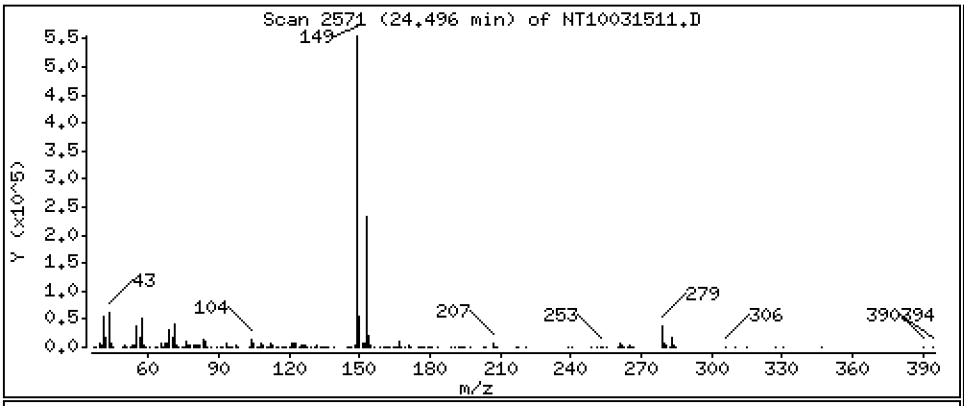
Operator: VTS

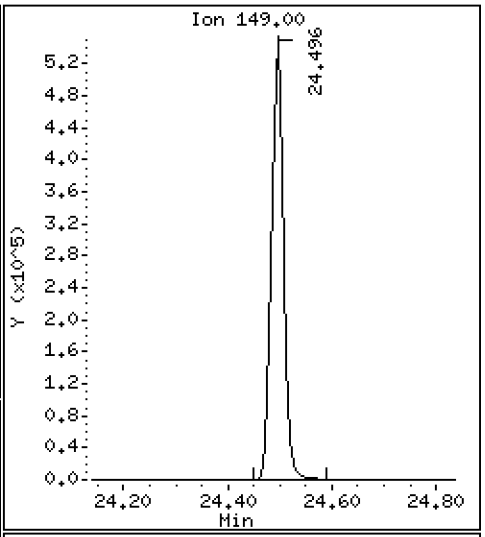
Column phase: ZB-5msi

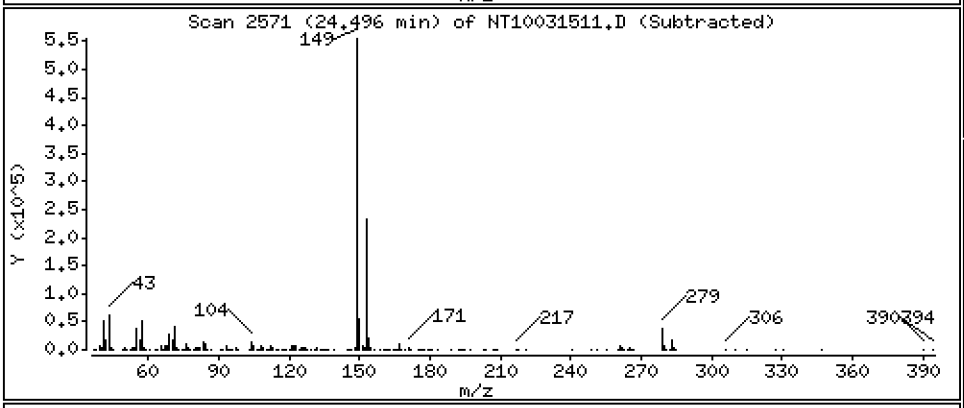
Column diameter: 0.25

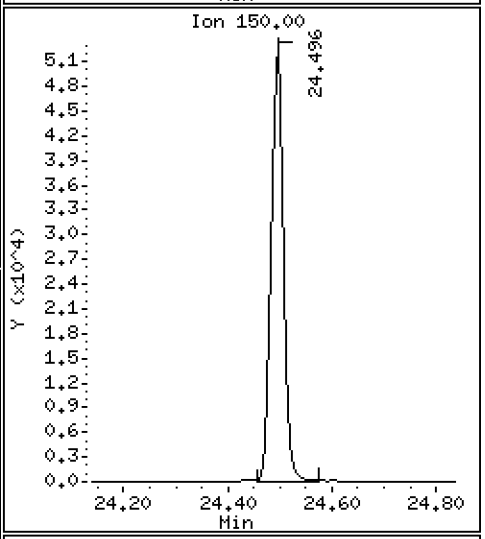
73 Di-n-octylphthalate

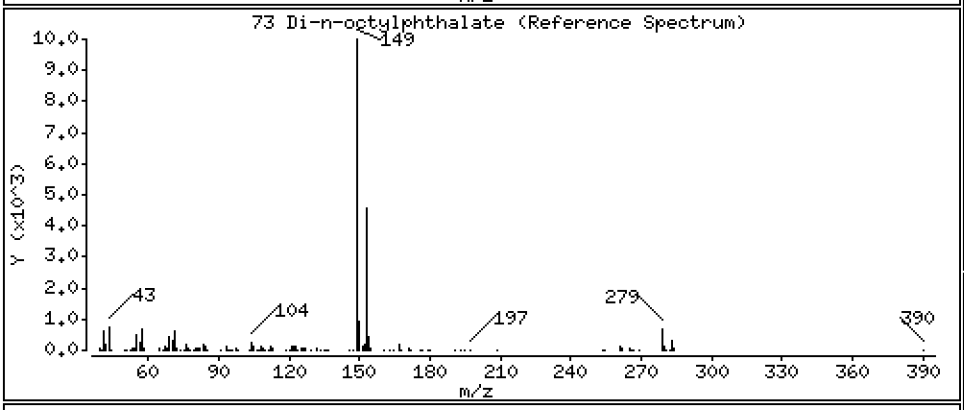
Concentration: 4.947 ug/mL

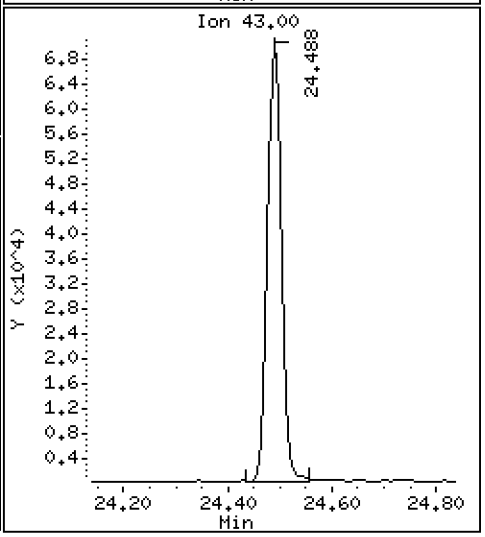


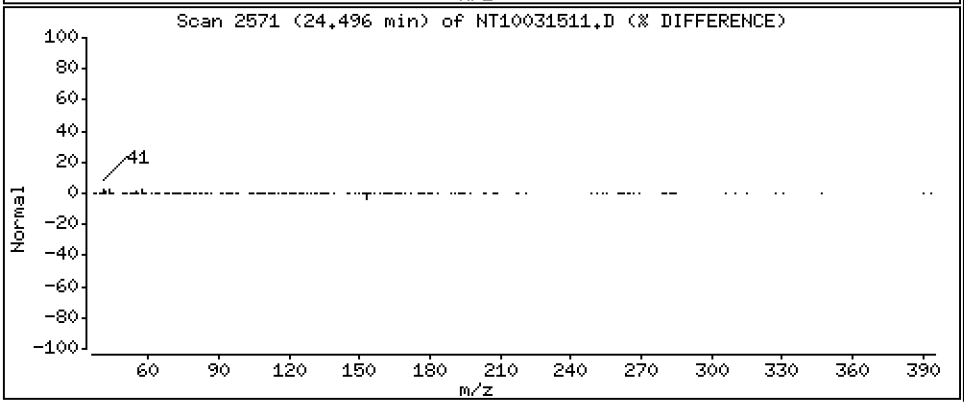












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

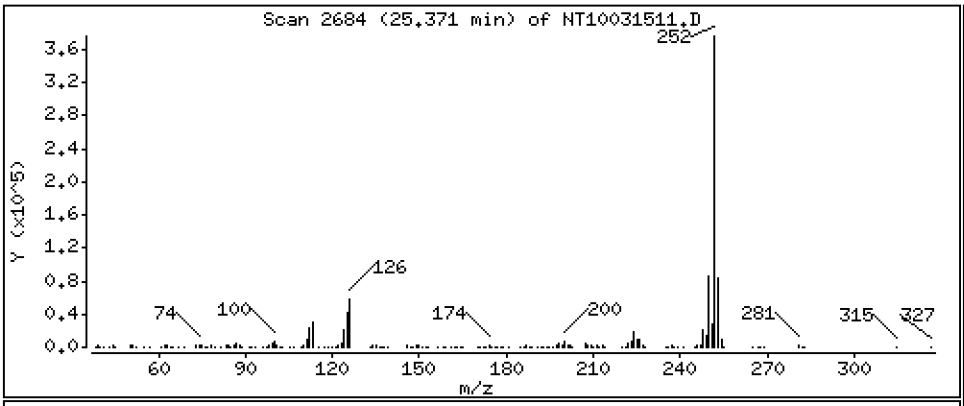
Operator: VTS

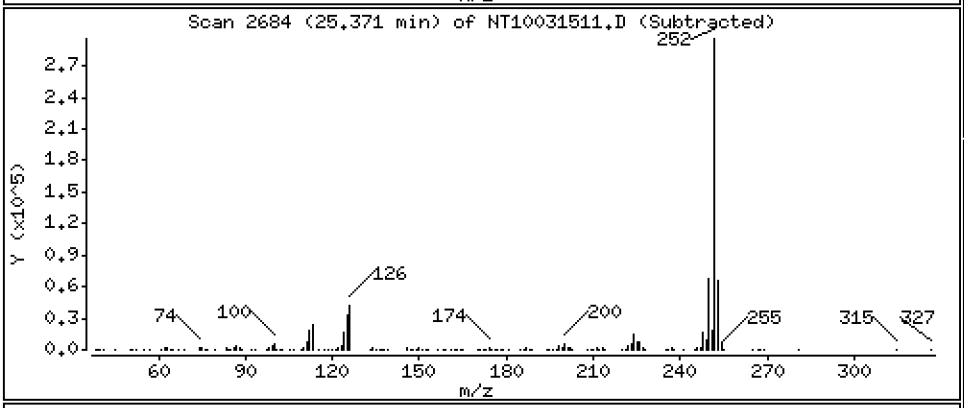
Column phase: ZB-5msi

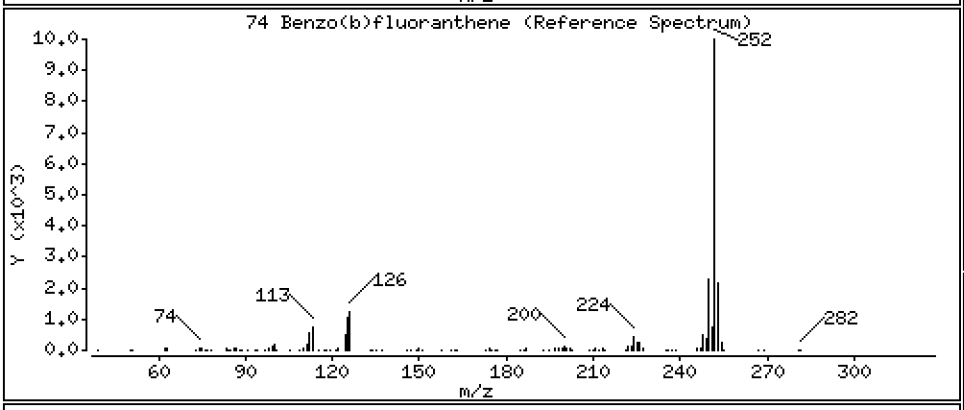
Column diameter: 0.25

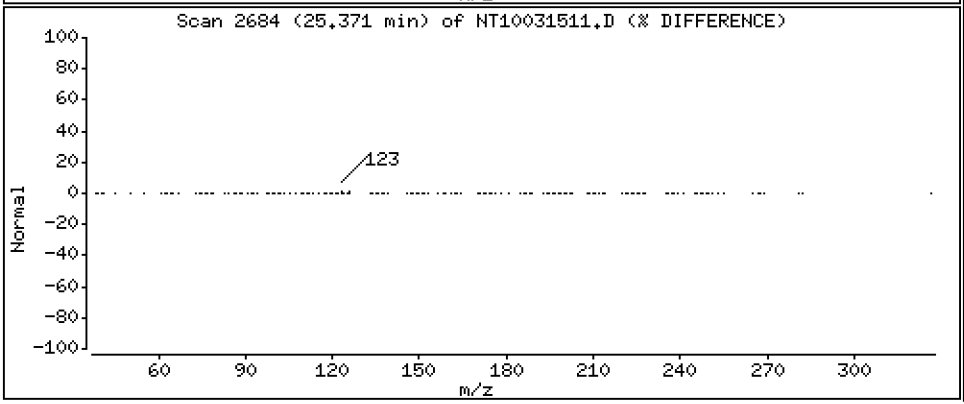
74 Benzo(b)fluoranthene

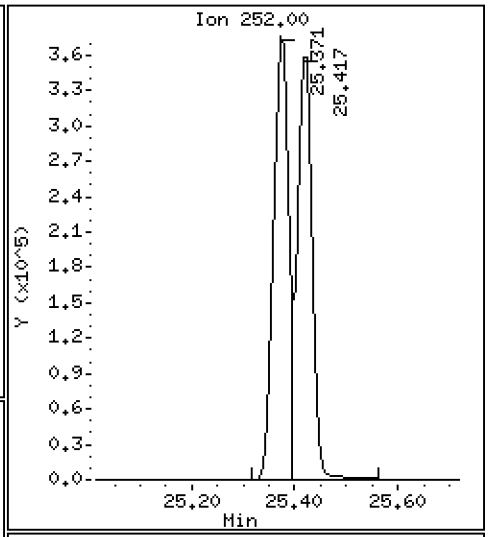
Concentration: 4.602 ug/mL

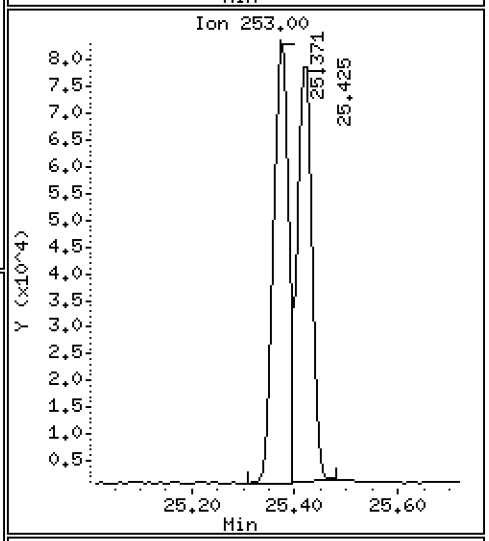


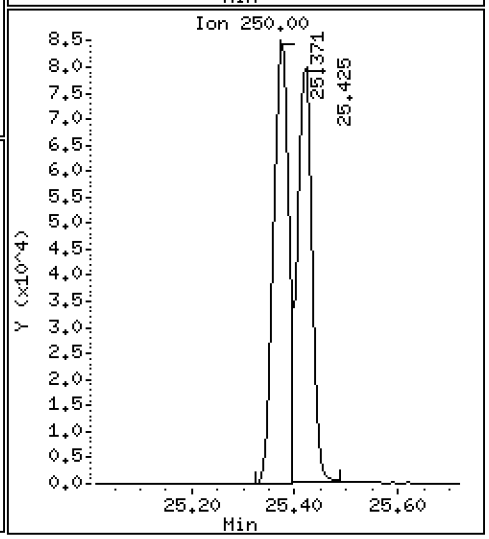












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

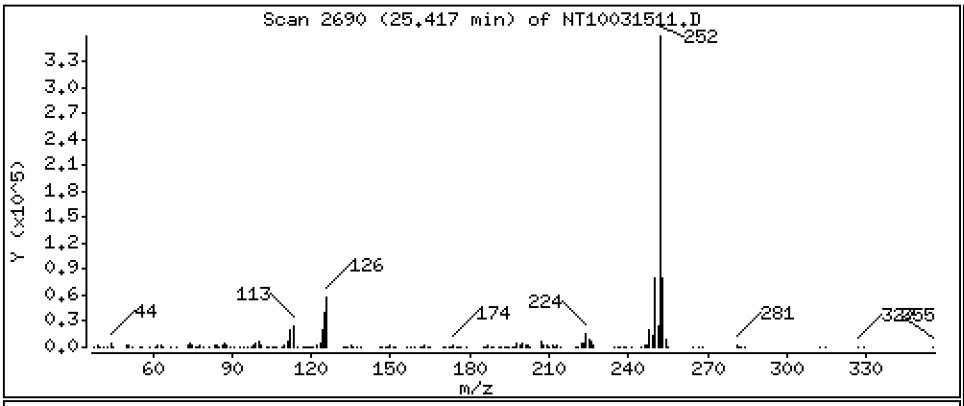
Operator: VTS

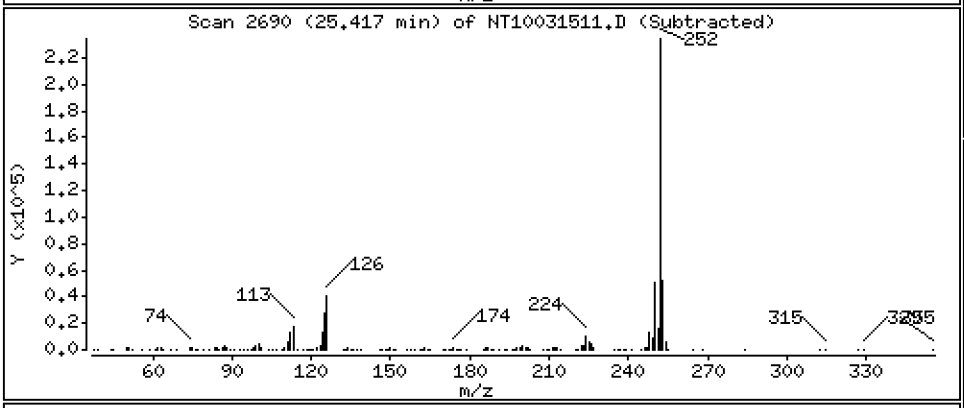
Column phase: ZB-5msi

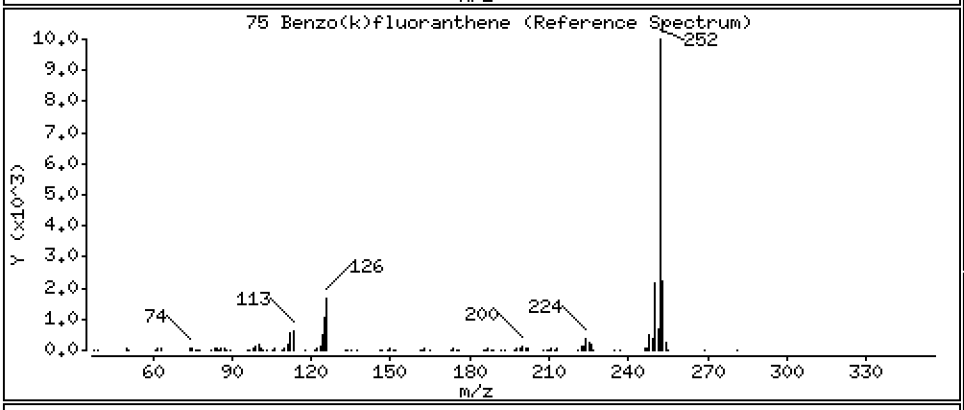
Column diameter: 0.25

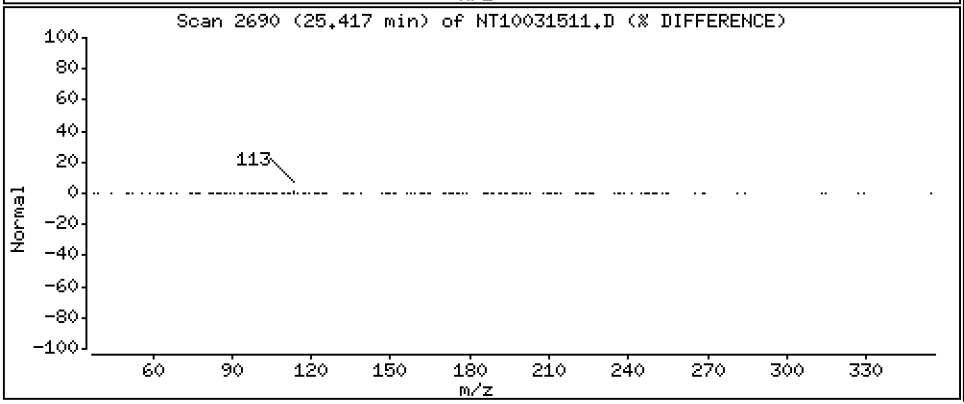
75 Benzo(k)fluoranthene

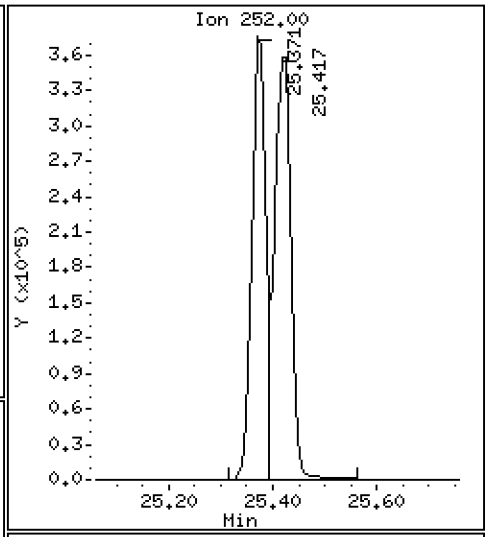
Concentration: 4.898 ug/mL

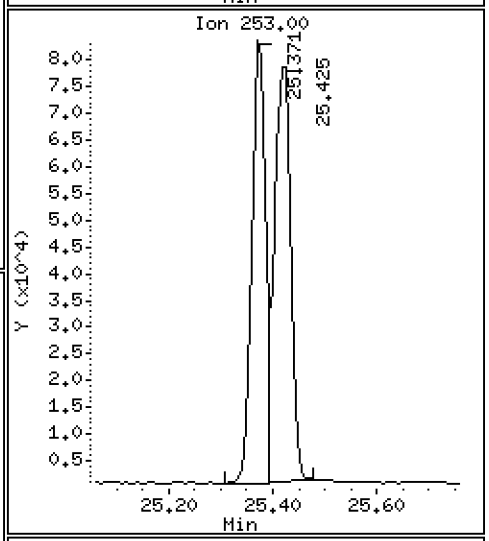


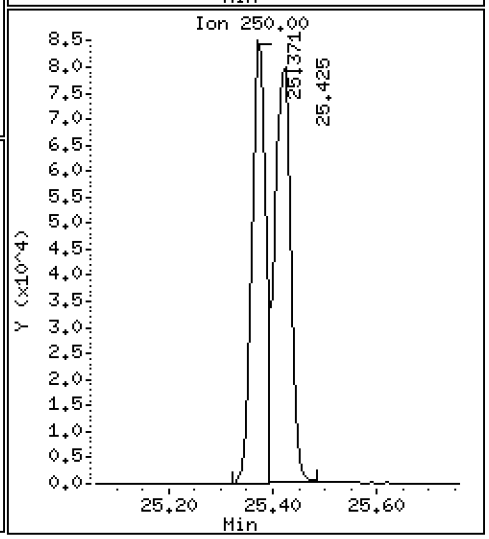












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

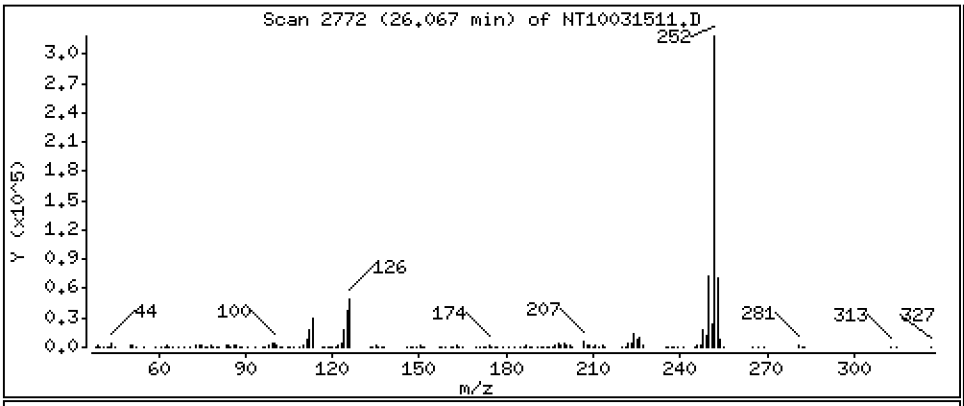
Operator: VTS

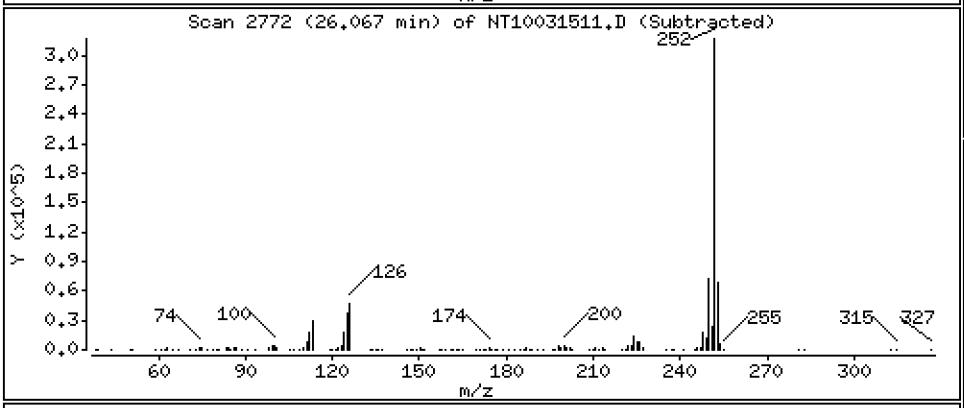
Column phase: ZB-5msi

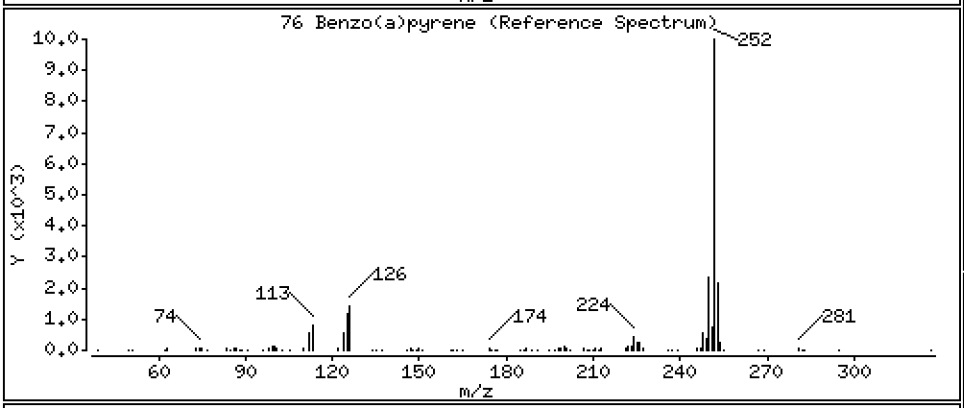
Column diameter: 0.25

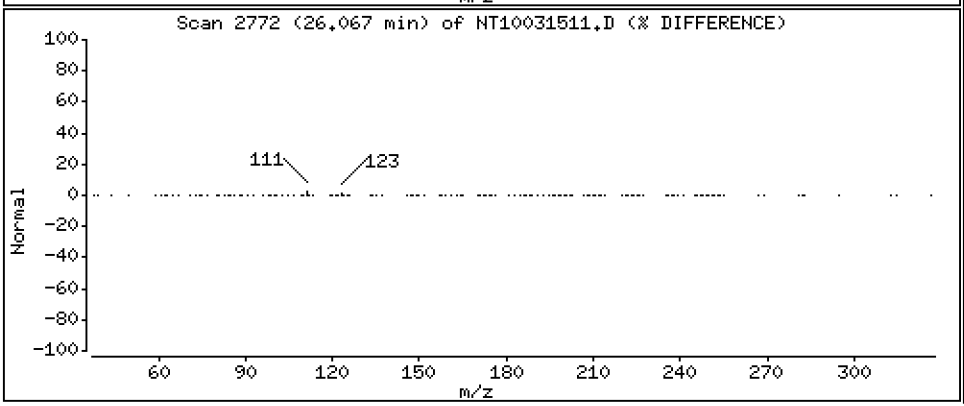
76 Benzo(a)pyrene

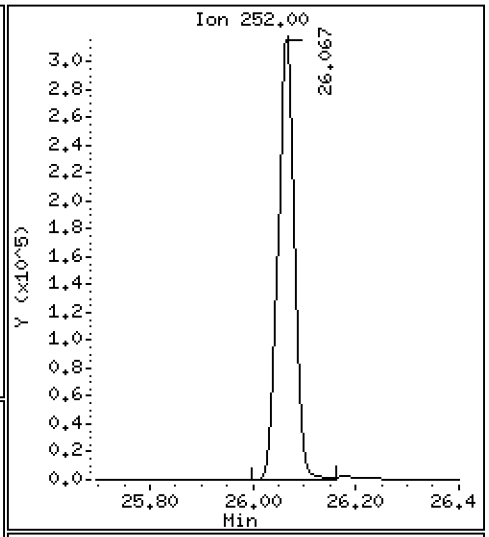
Concentration: 4.873 ug/mL

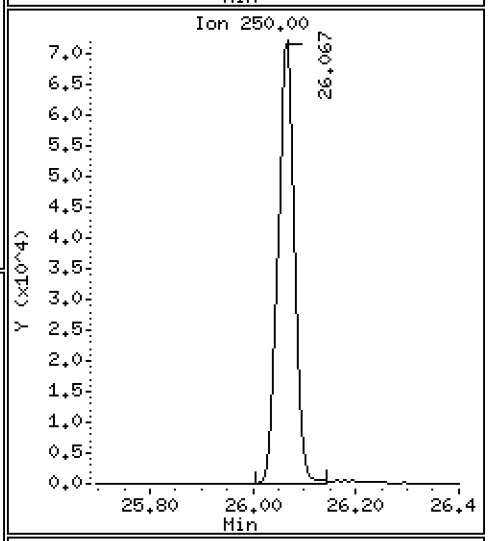


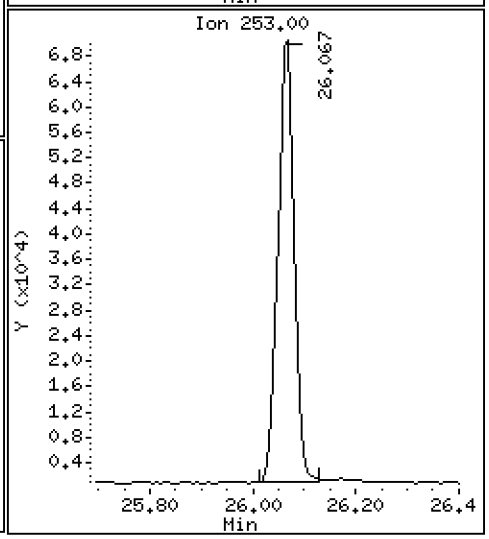












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

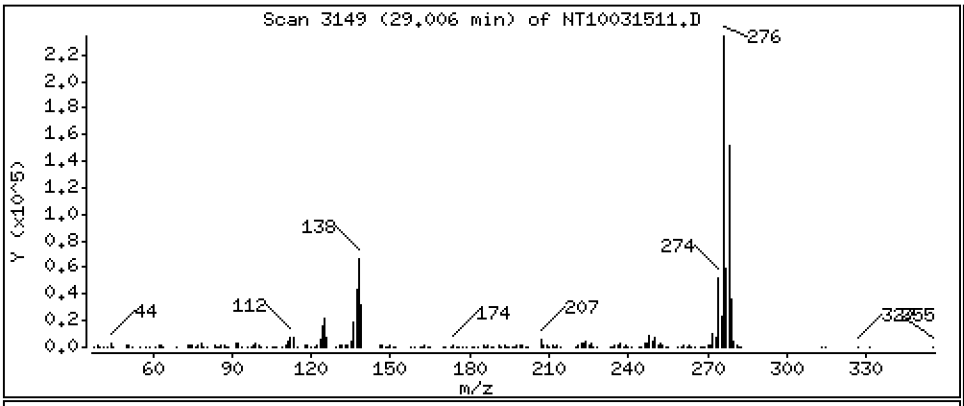
Operator: VTS

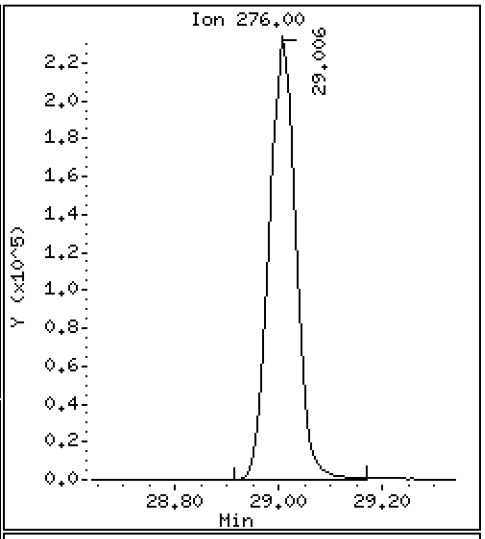
Column phase: ZB-5msi

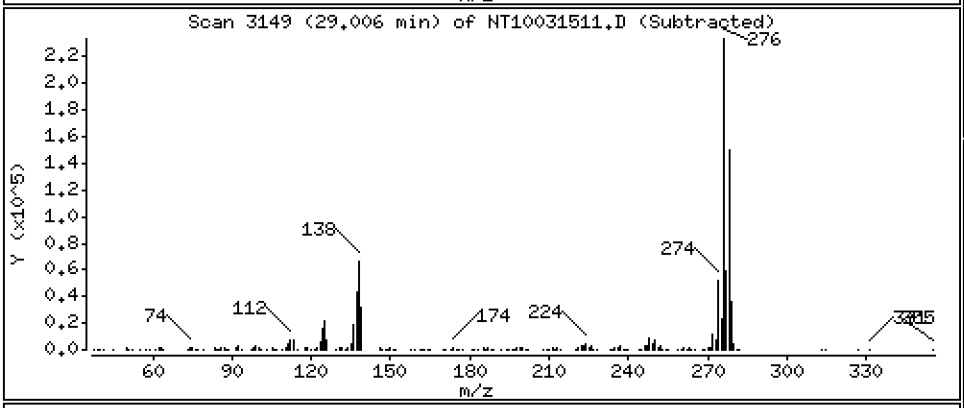
Column diameter: 0.25

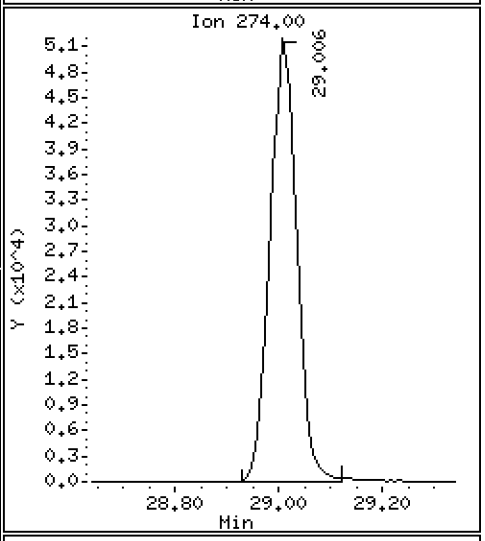
78 Indeno(1,2,3-cd)pyrene

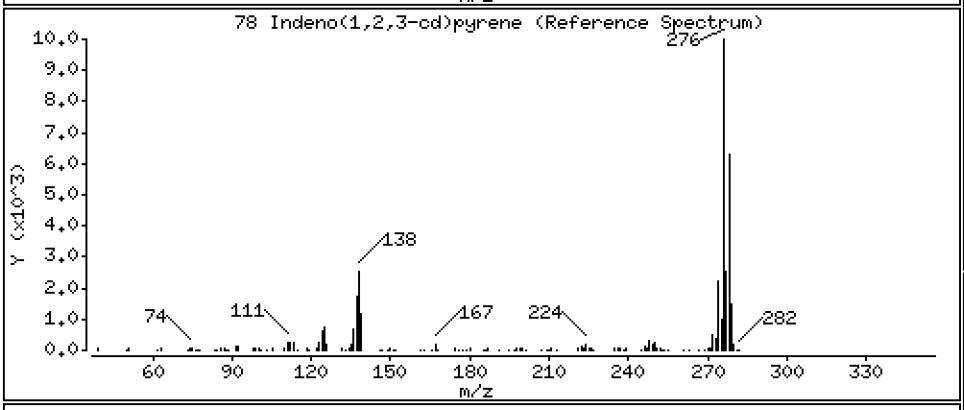
Concentration: 4.577 ug/mL

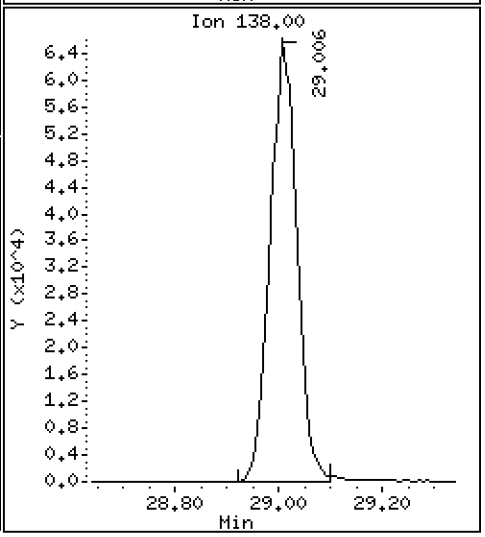


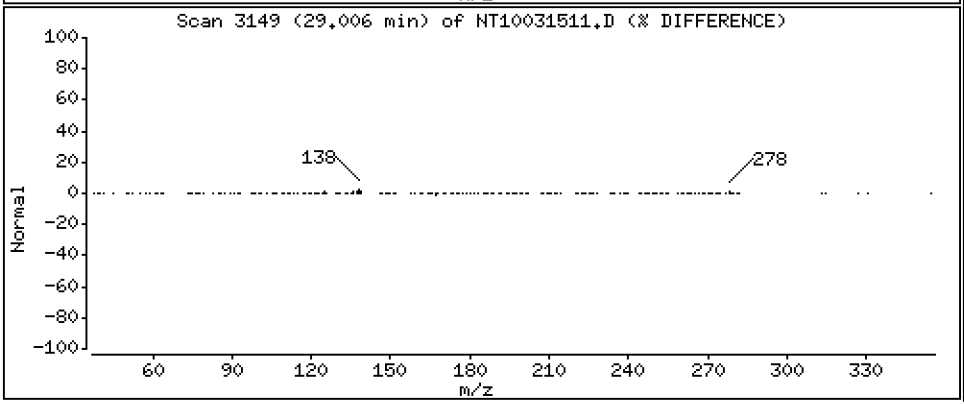












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

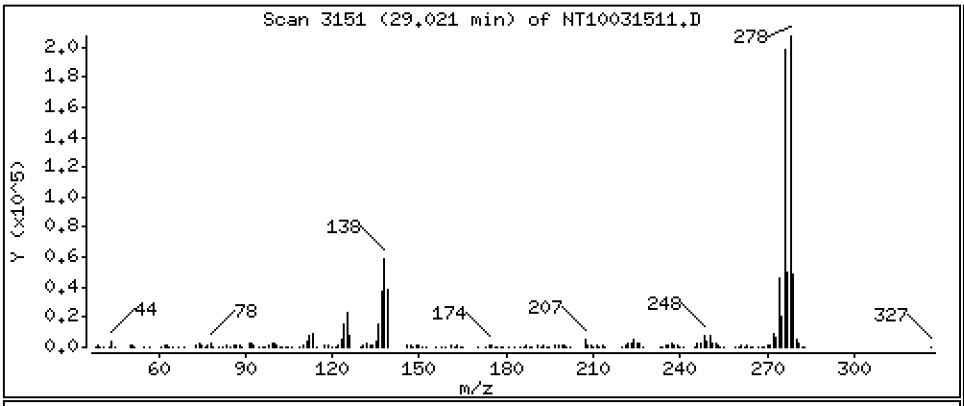
Operator: VTS

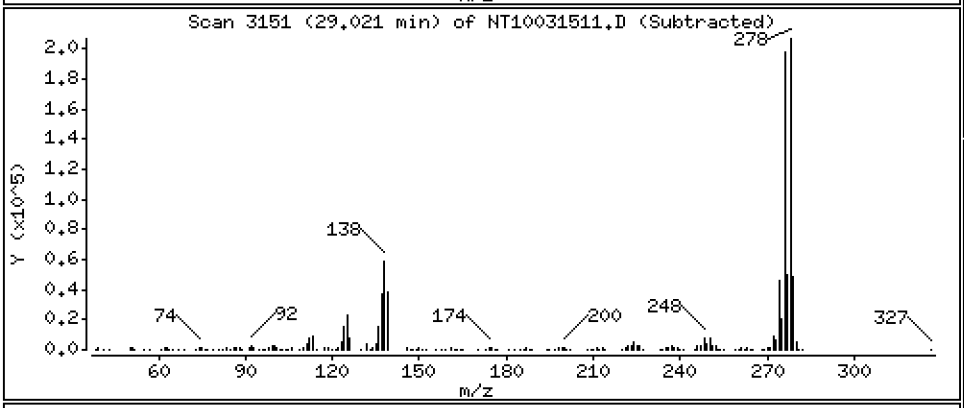
Column phase: ZB-5msi

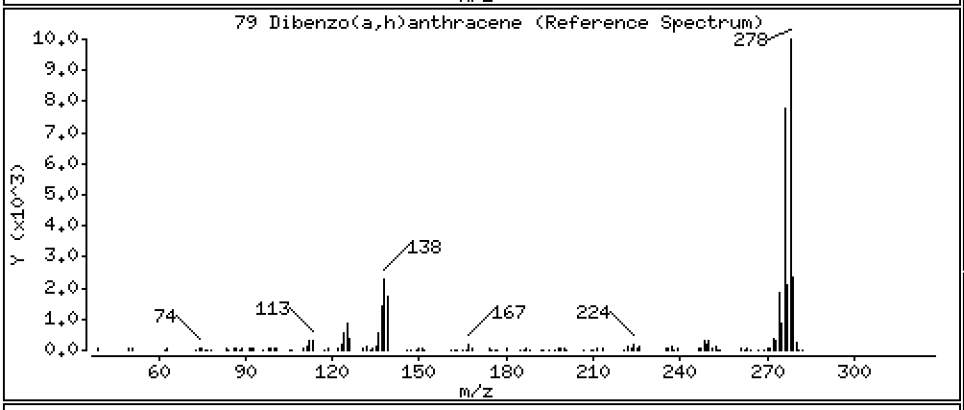
Column diameter: 0.25

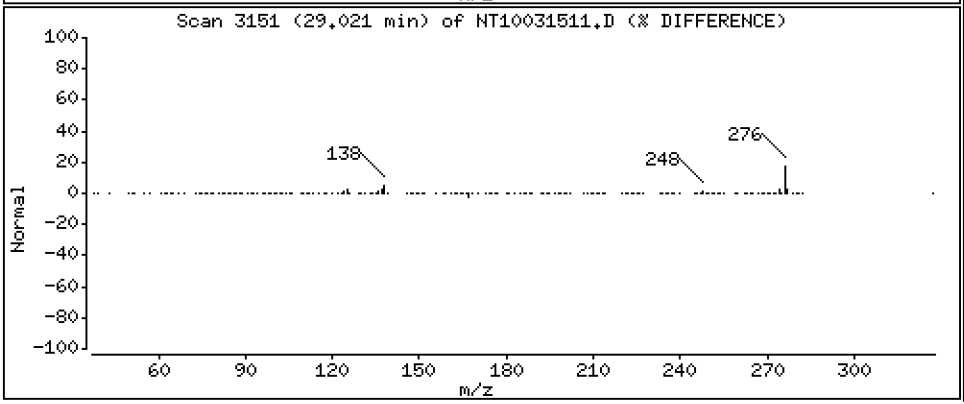
79 Dibenzo(a,h)anthracene

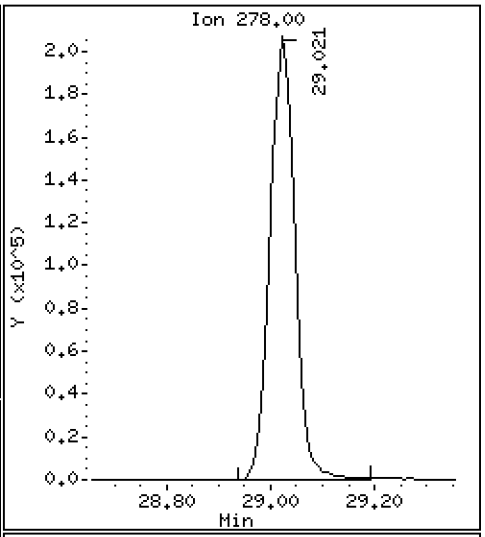
Concentration: 4.547 ug/mL

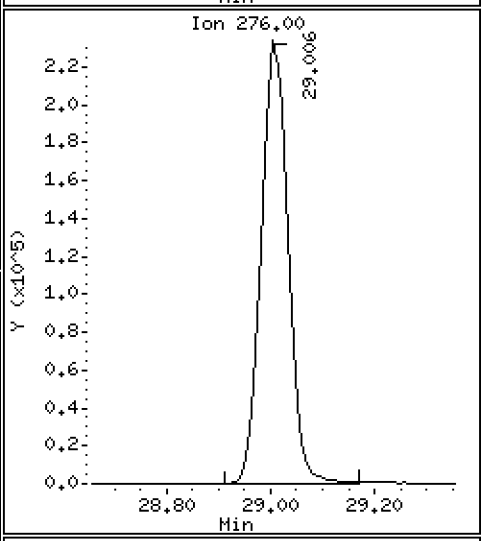


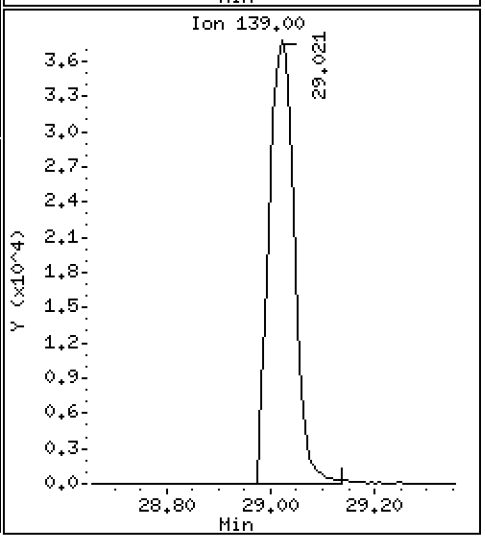












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

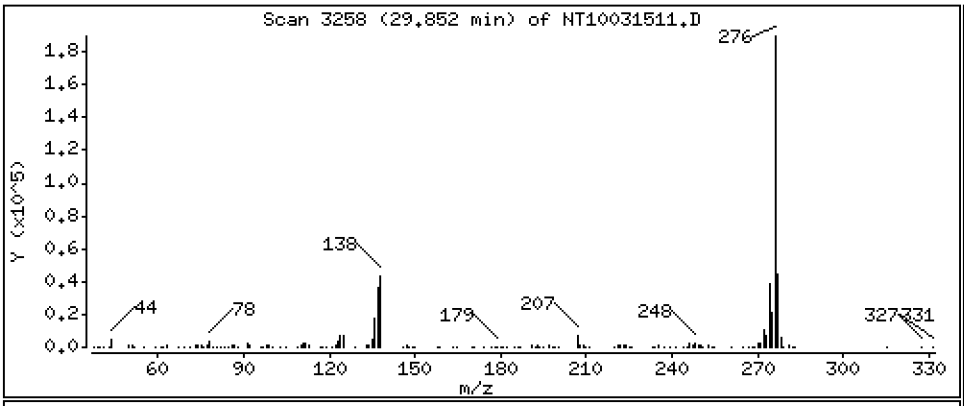
Operator: VTS

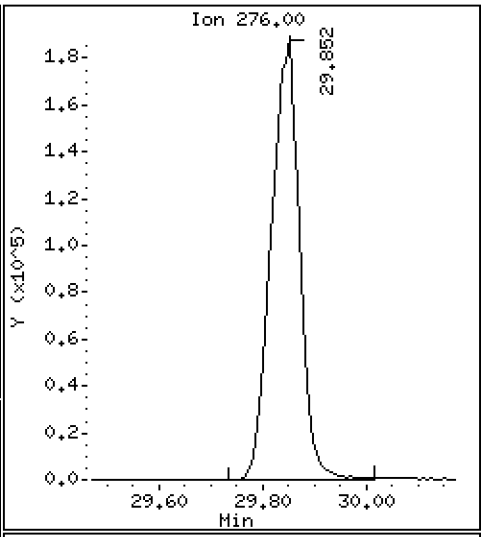
Column phase: ZB-5msi

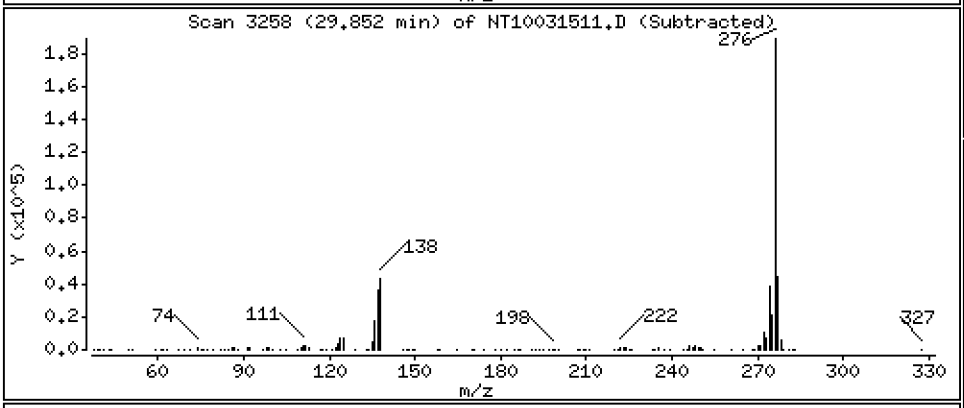
Column diameter: 0.25

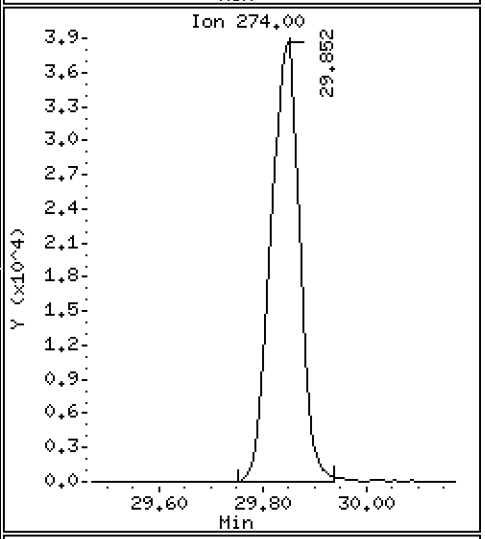
80 Benzo(g,h,i)perylene

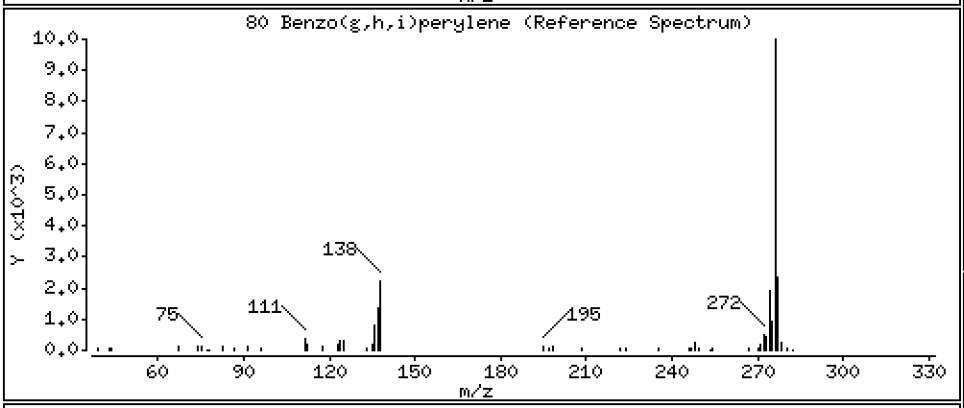
Concentration: 4.590 ug/mL

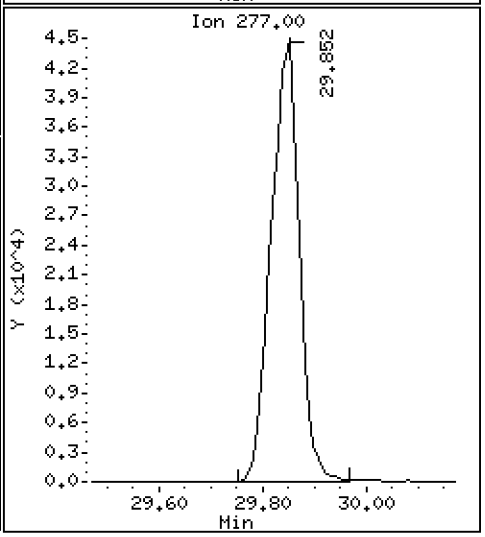


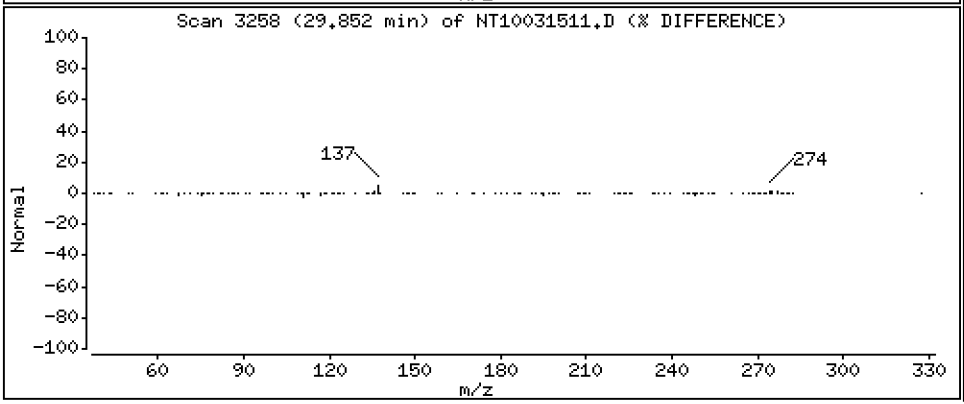












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

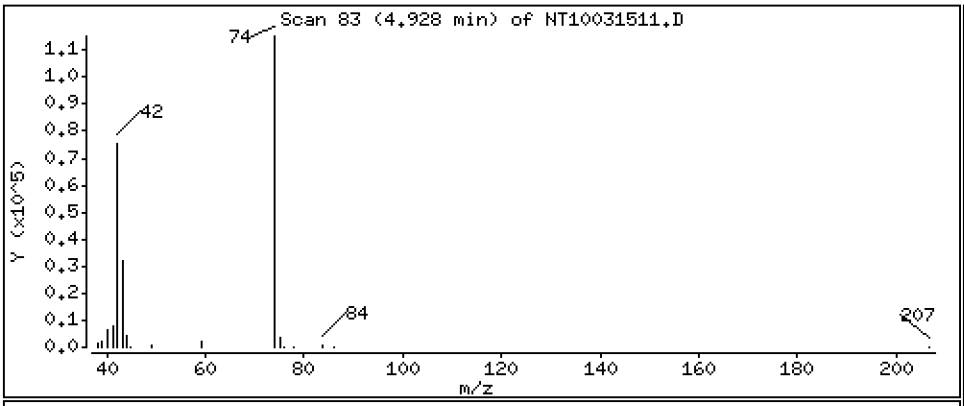
Operator: VTS

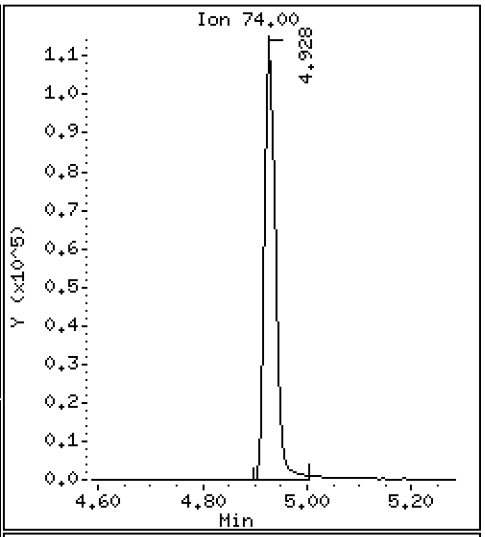
Column phase: ZB-5msi

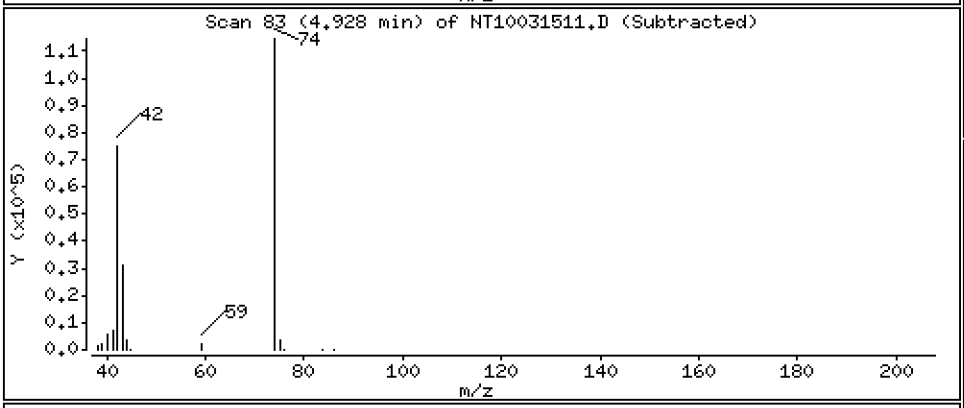
Column diameter: 0.25

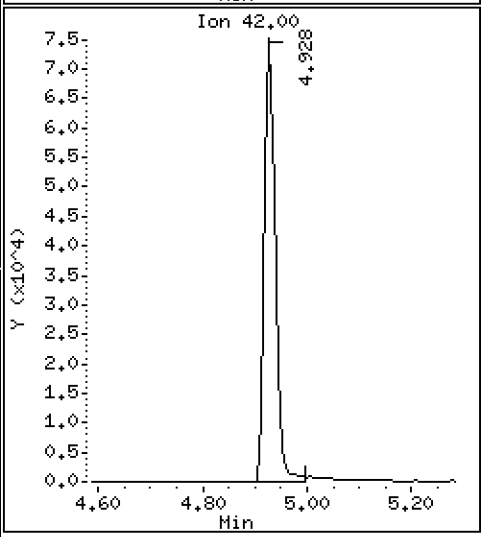
90 N-Nitrosodimethylamine

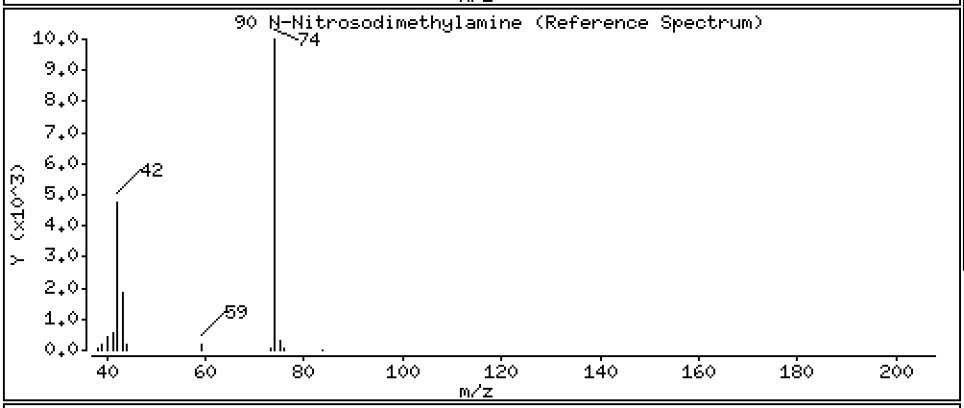
Concentration: 5.194 ug/mL

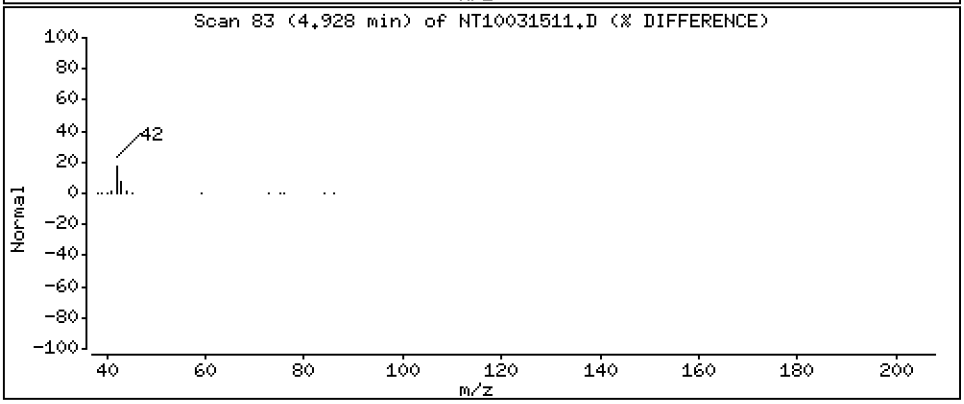












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

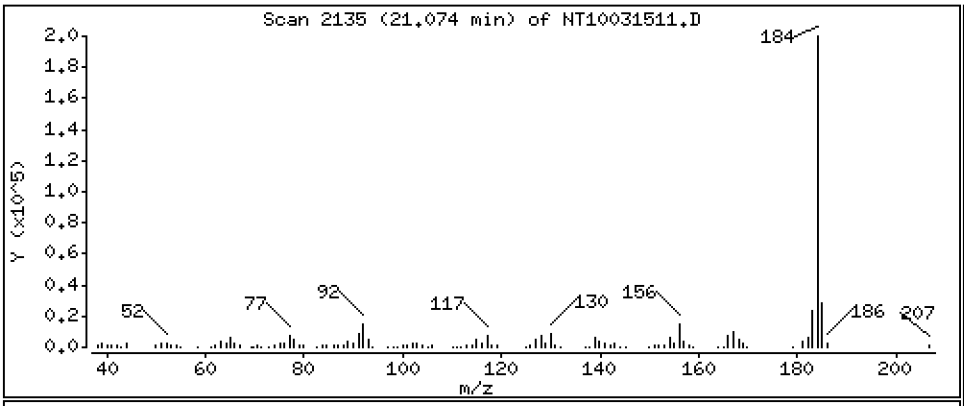
Operator: VTS

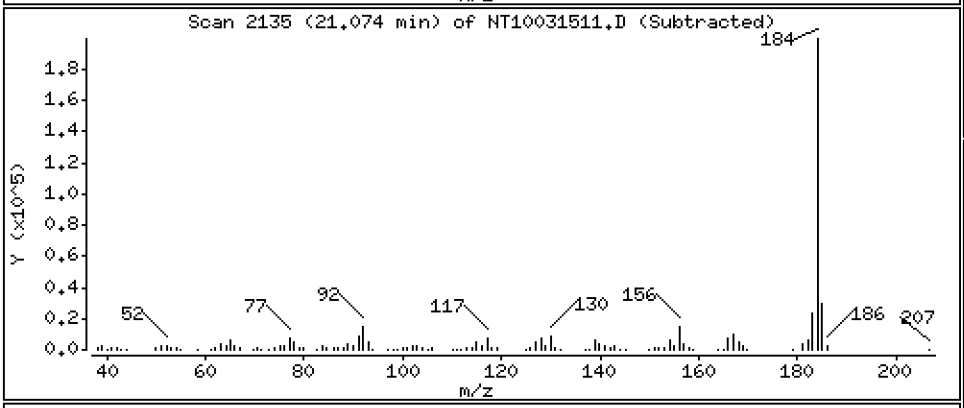
Column phase: ZB-5msi

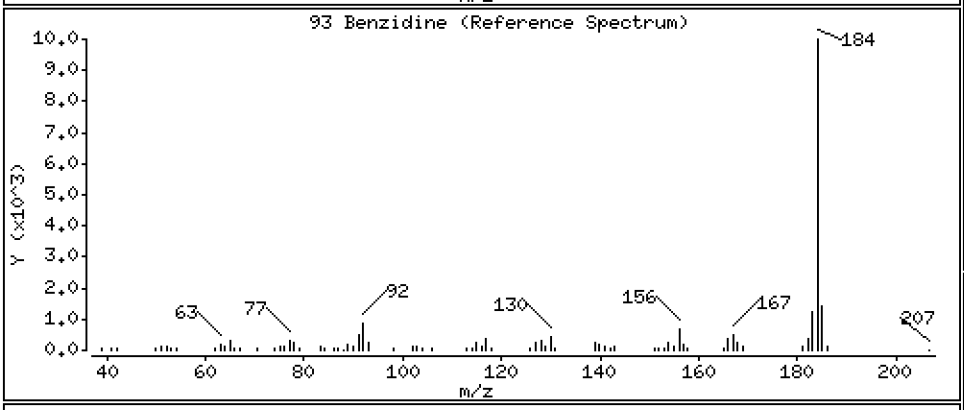
Column diameter: 0.25

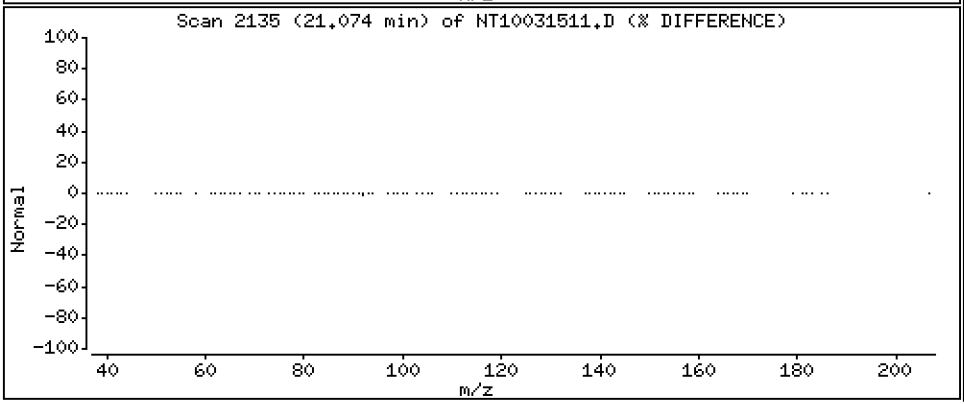
93 Benzidine

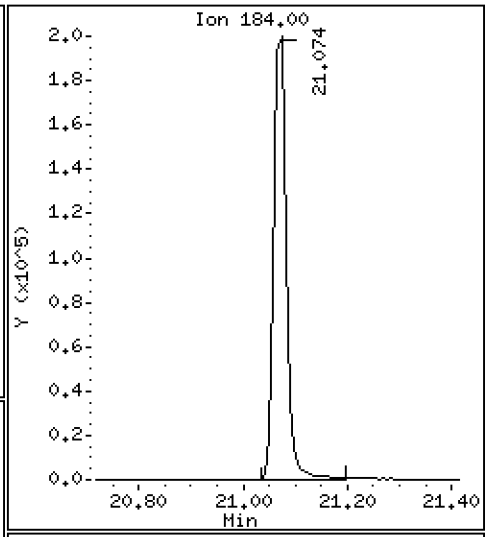
Concentration: 4.380 ug/mL

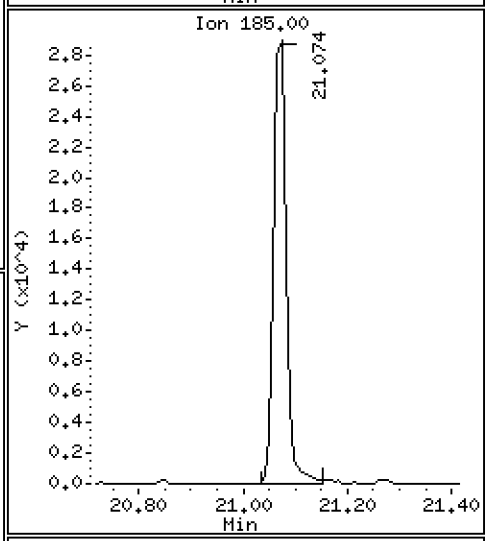


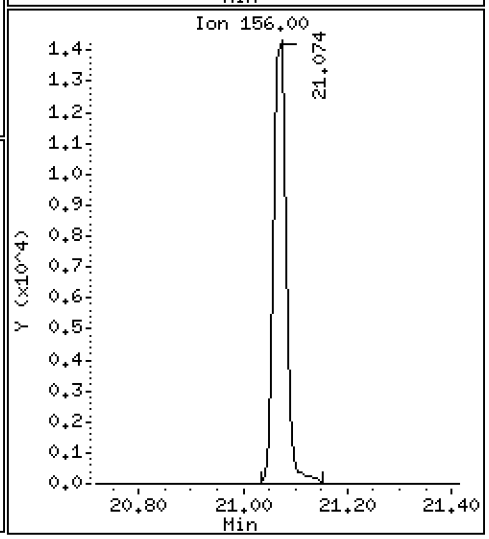












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

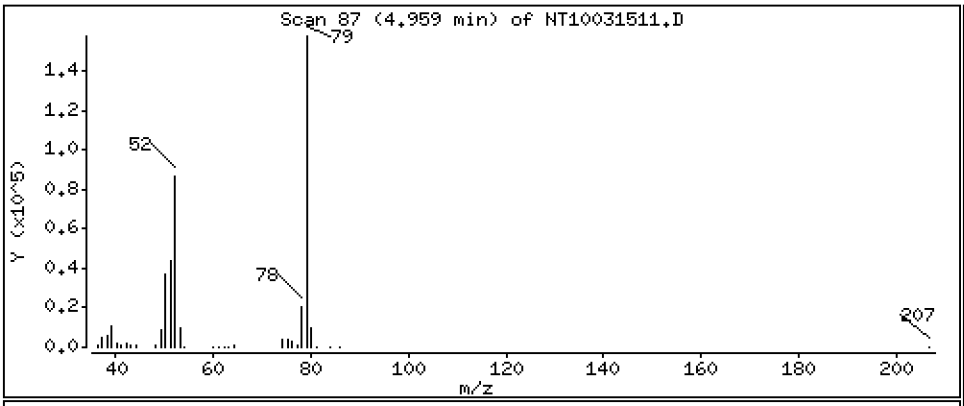
Operator: VTS

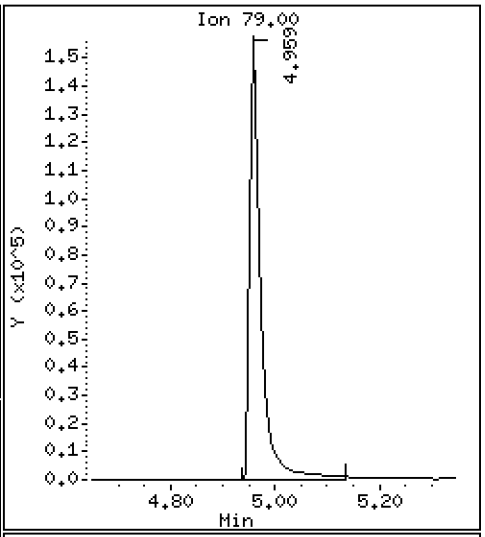
Column phase: ZB-5msi

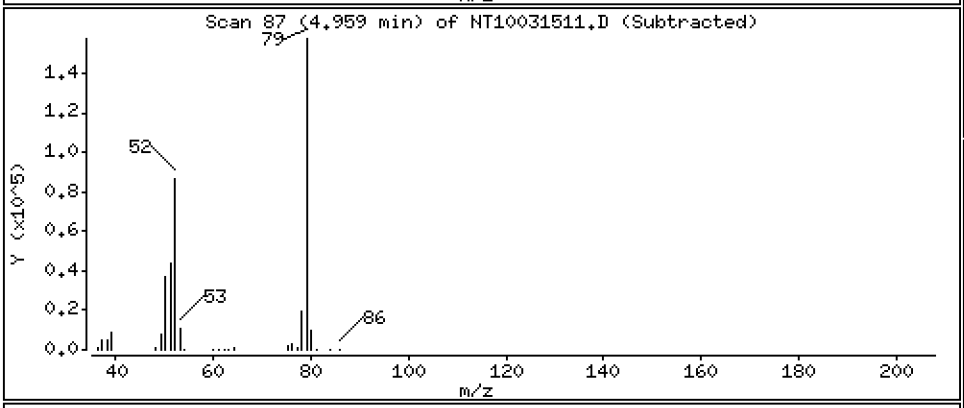
Column diameter: 0.25

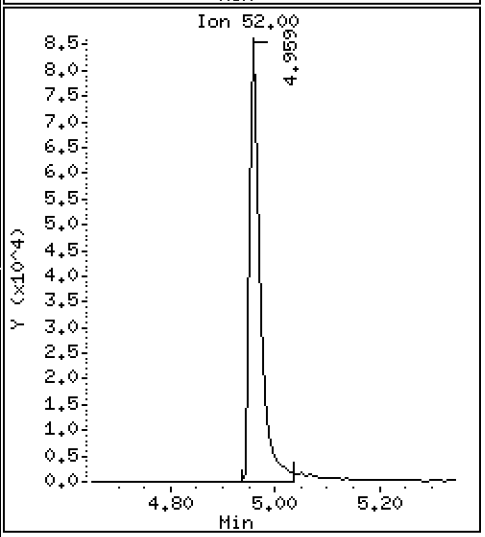
103 Pyridine

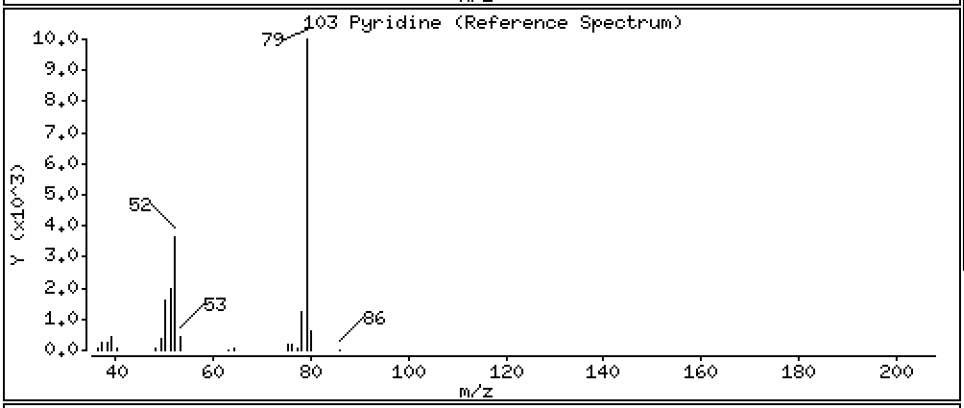
Concentration: 5.337 ug/mL

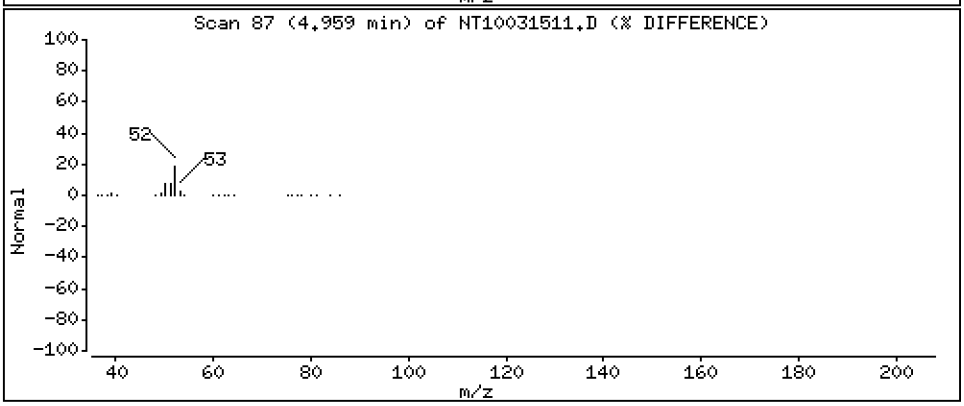












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

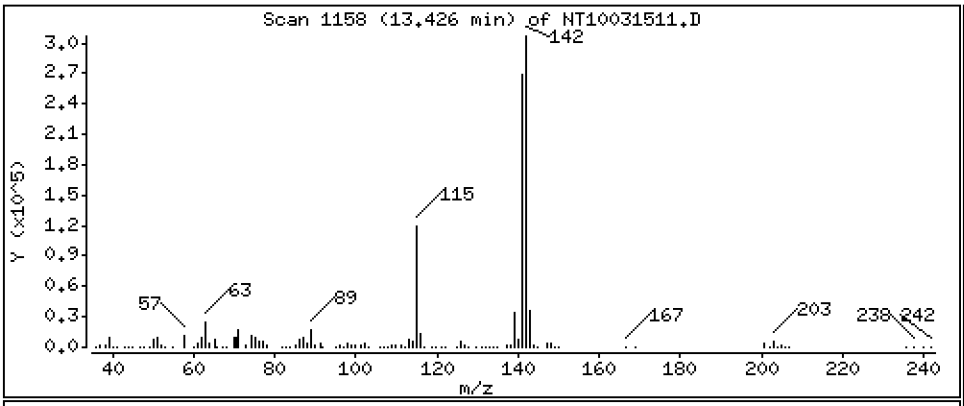
Operator: VTS

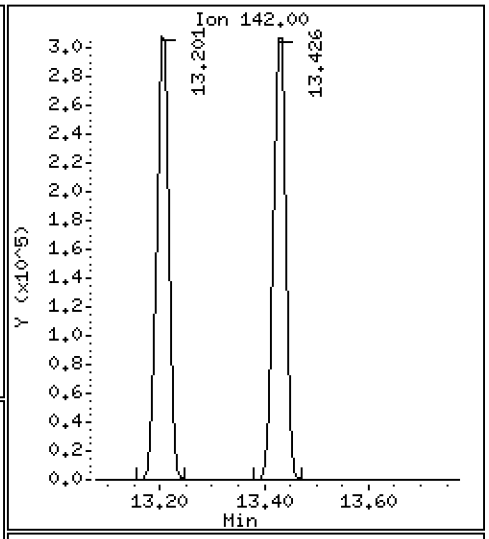
Column phase: ZB-5msi

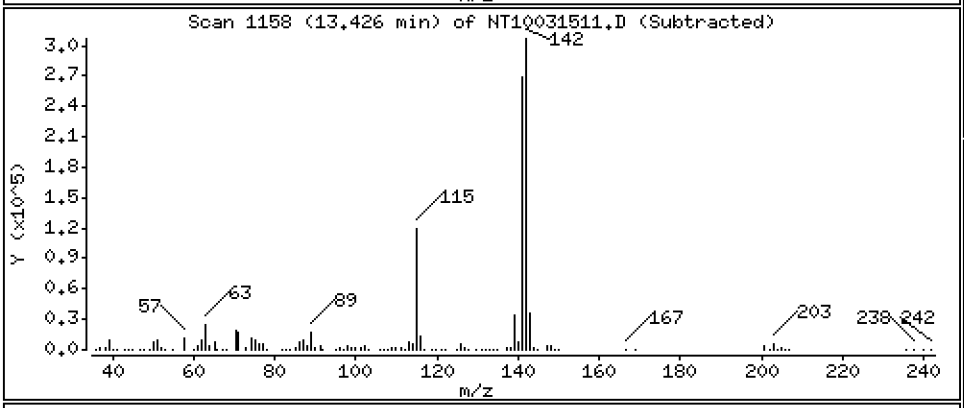
Column diameter: 0.25

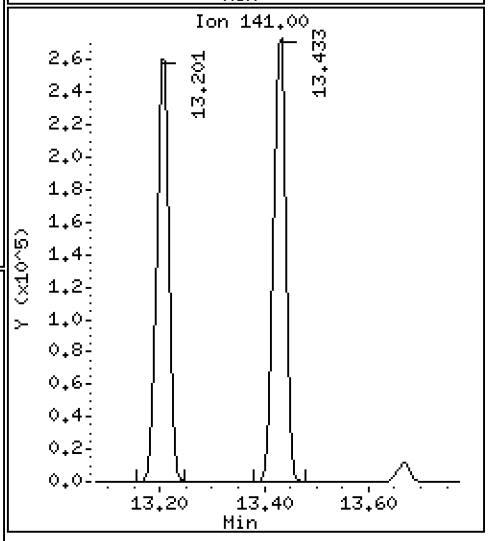
105 1-methylnaphthalene

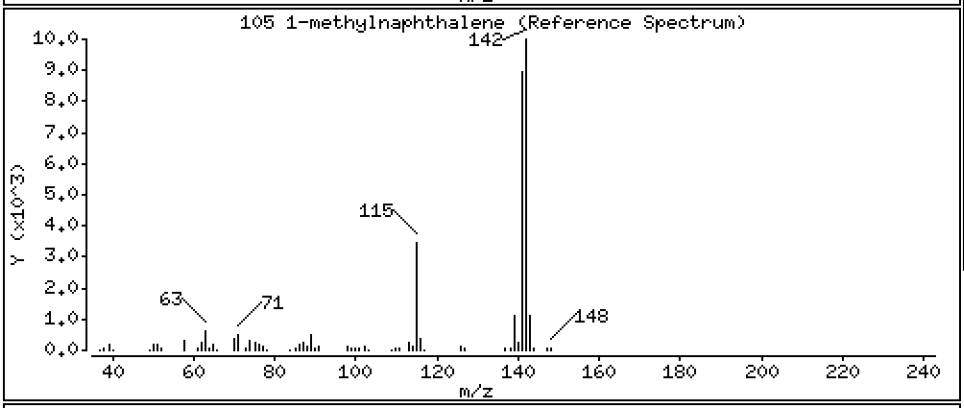
Concentration: 4.875 ug/mL

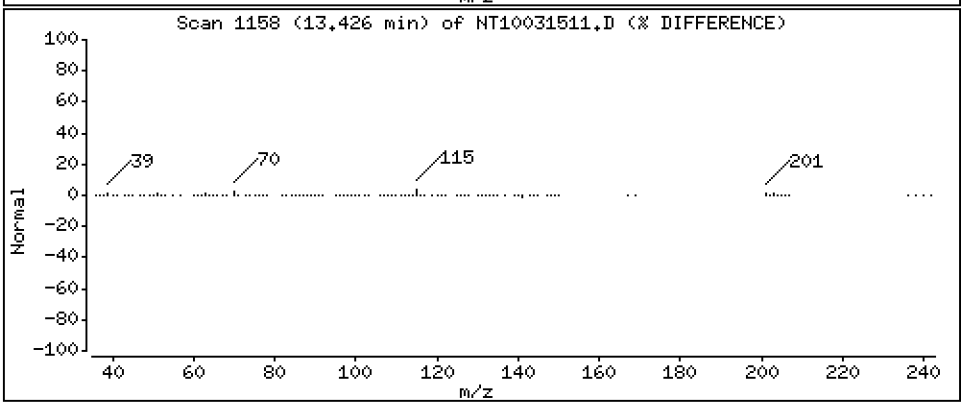












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

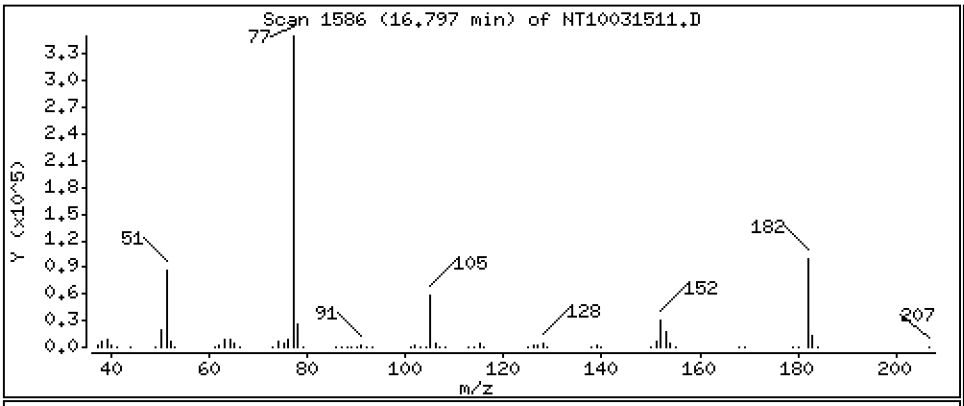
Operator: VTS

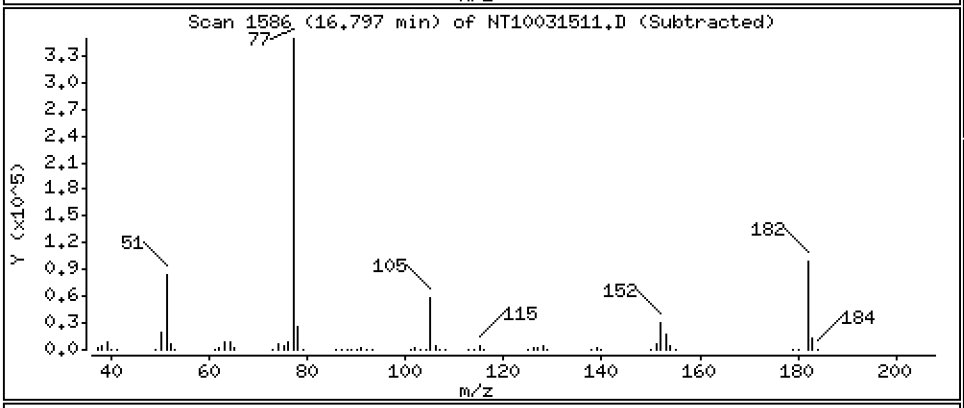
Column phase: ZB-5msi

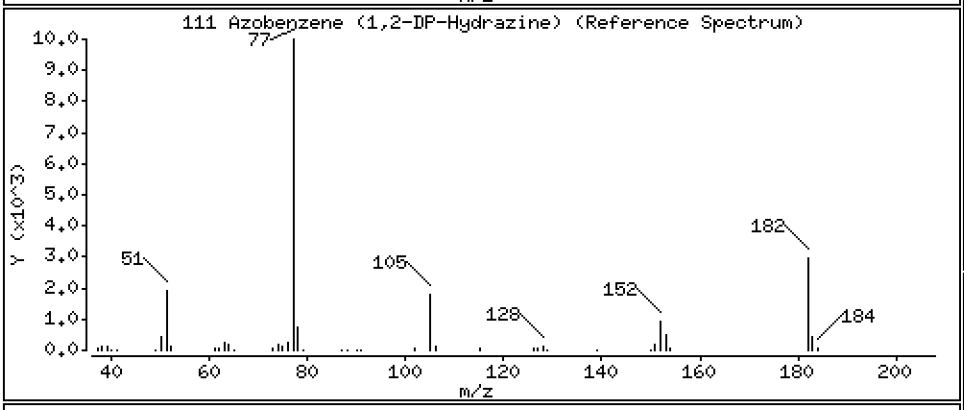
Column diameter: 0.25

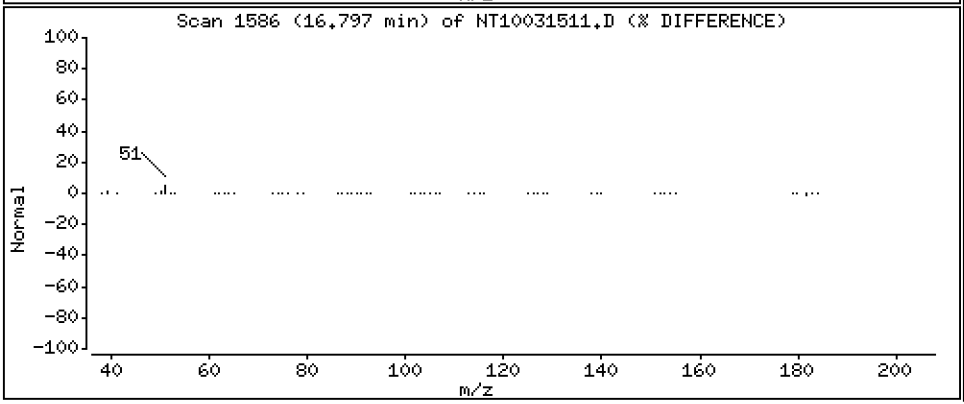
111 Azobenzene (1,2-DP-Hydrazine)

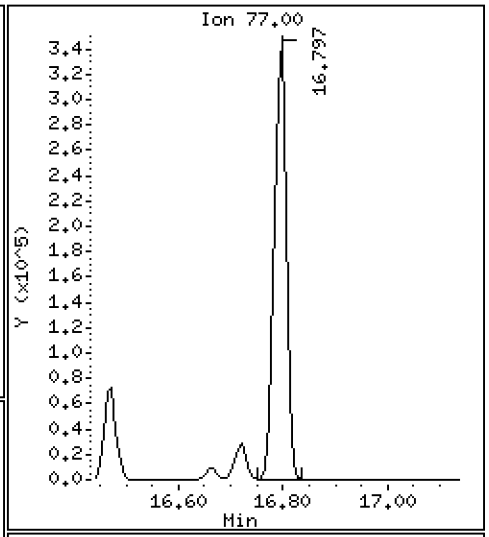
Concentration: 4.937 ug/mL

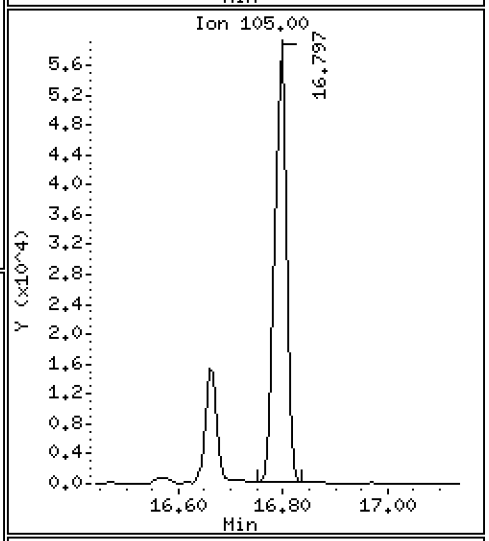


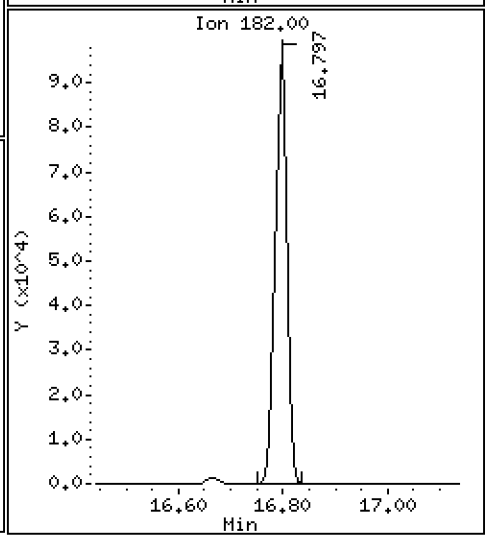












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

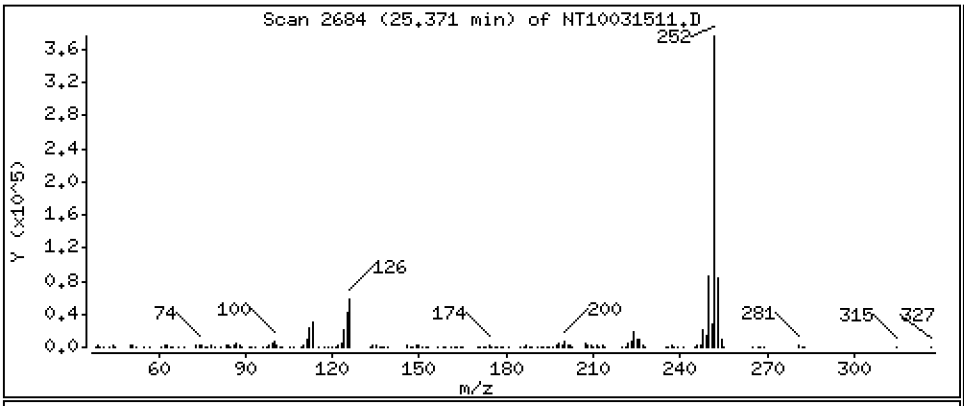
Operator: VTS

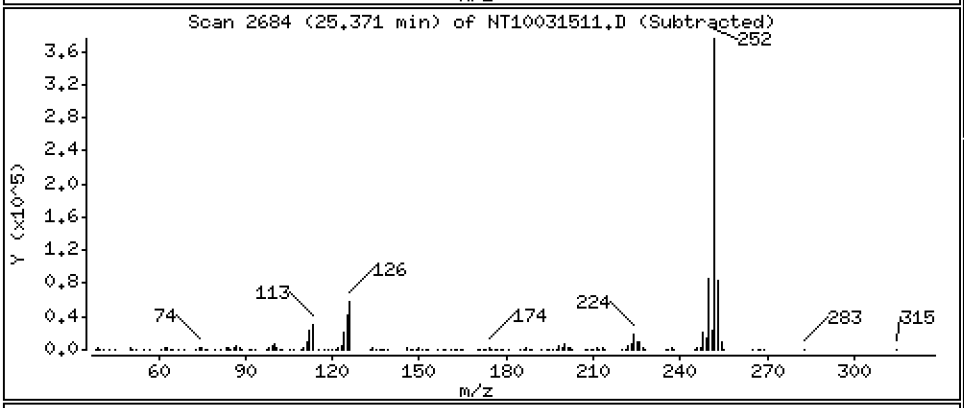
Column phase: ZB-5msi

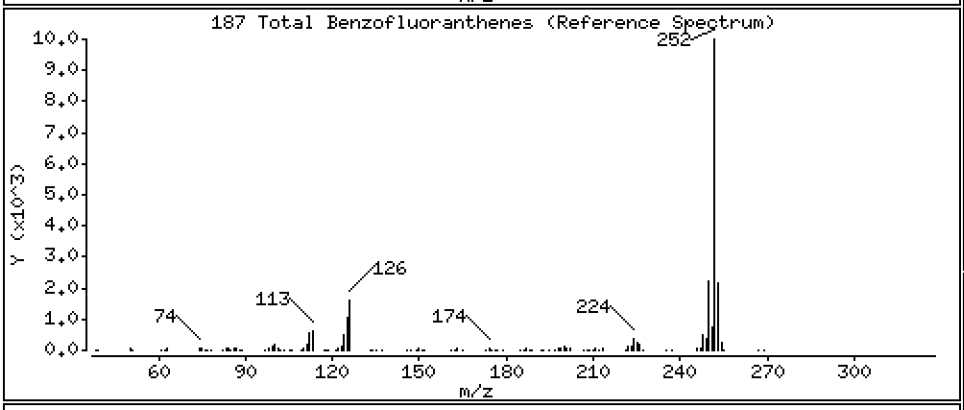
Column diameter: 0.25

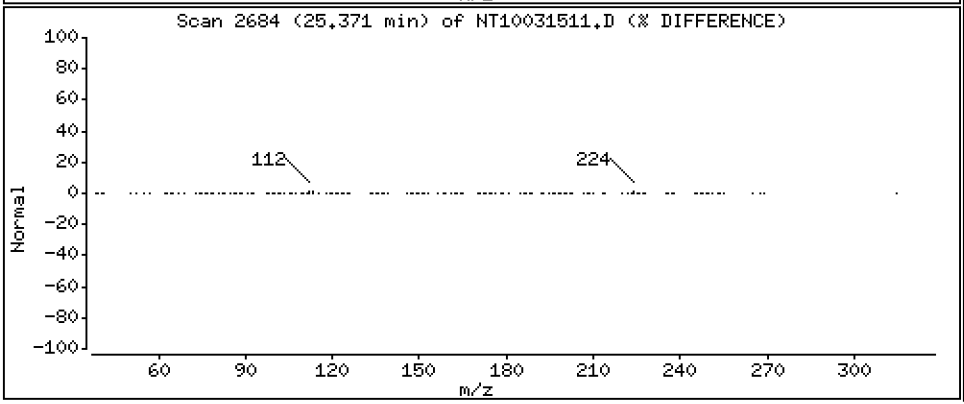
187 Total Benzofluoranthenes

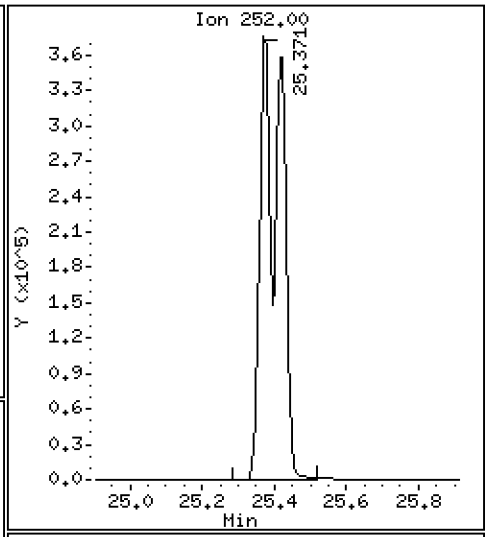
Concentration: 9.483 ug/mL

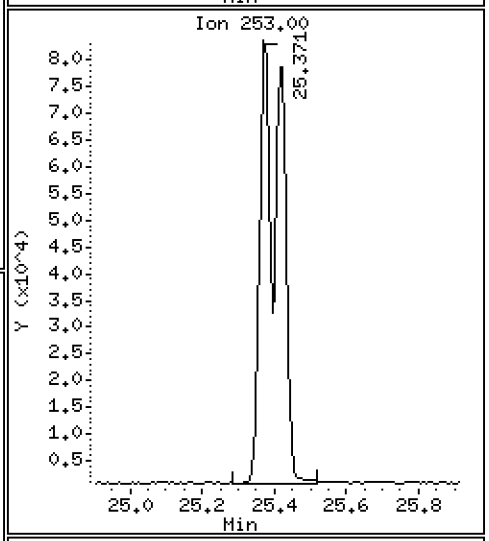


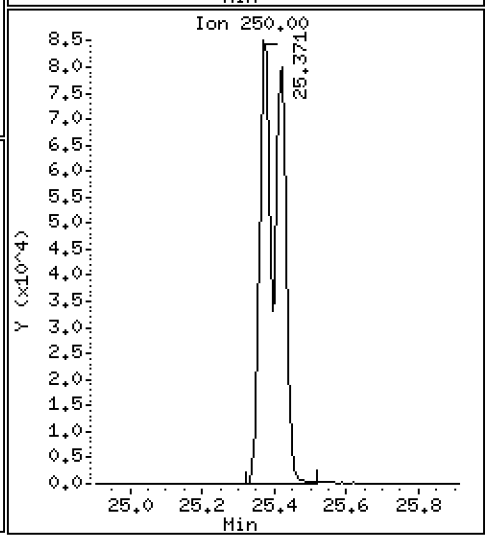












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

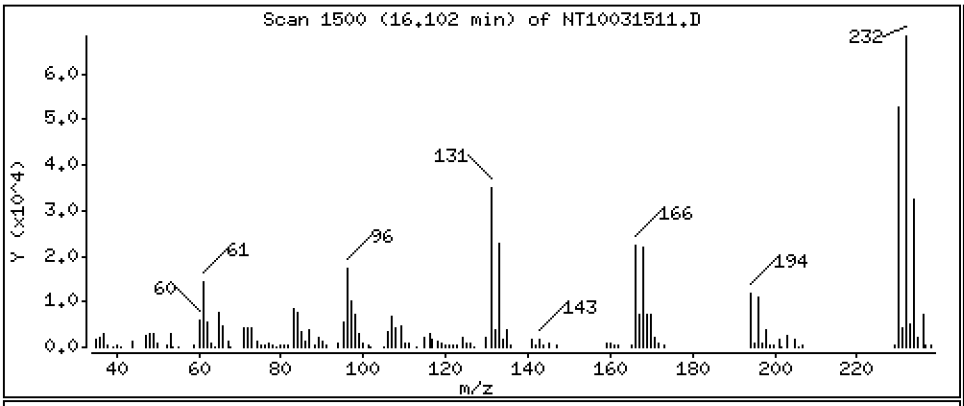
Operator: VTS

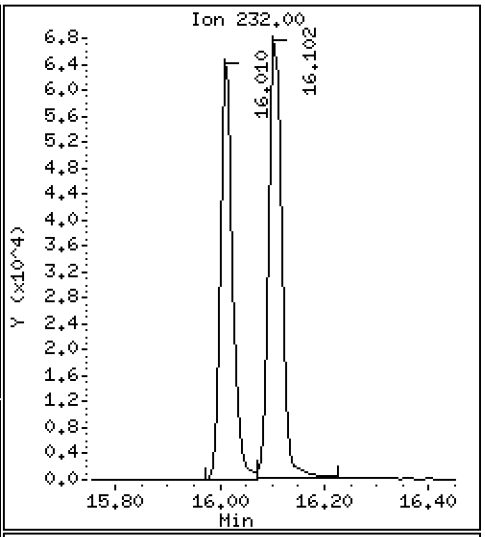
Column phase: ZB-5msi

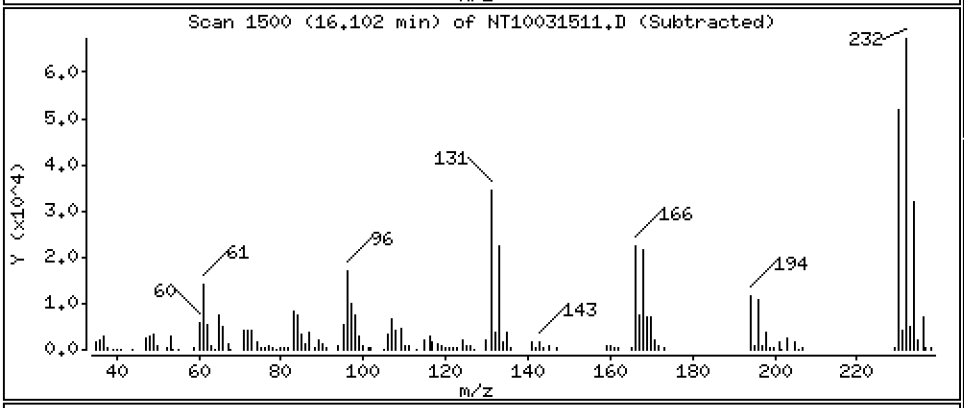
Column diameter: 0.25

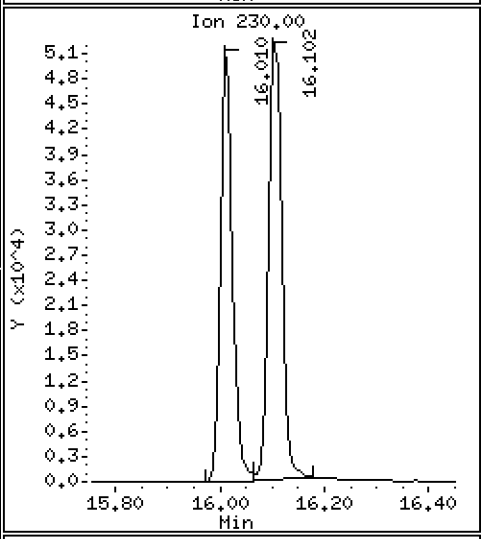
120 2,3,4,6-Tetrachlorophenol

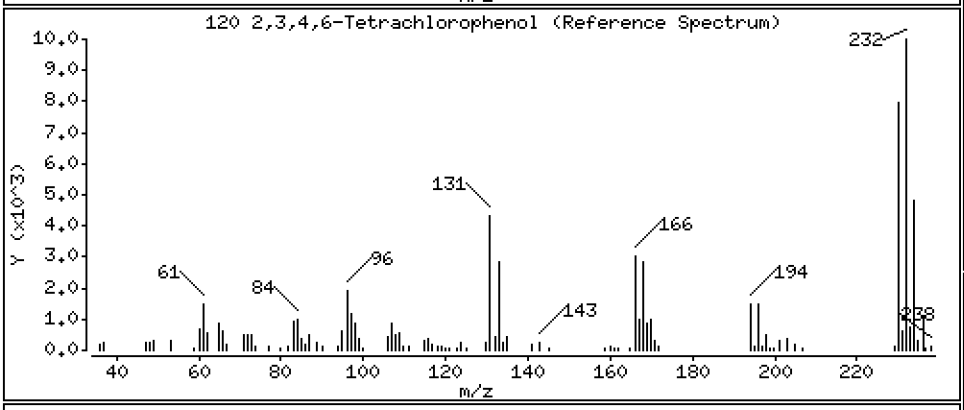
Concentration: 3.980 ug/mL

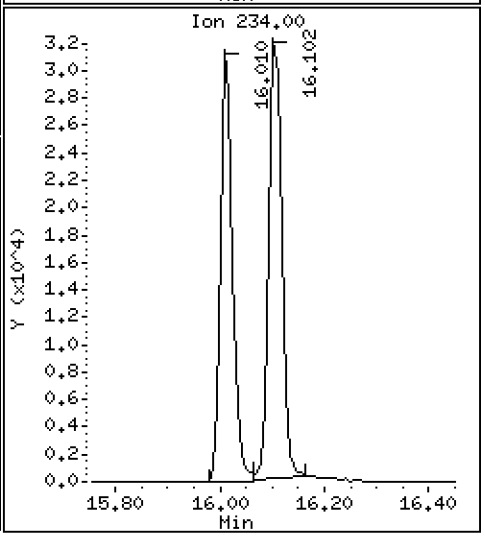


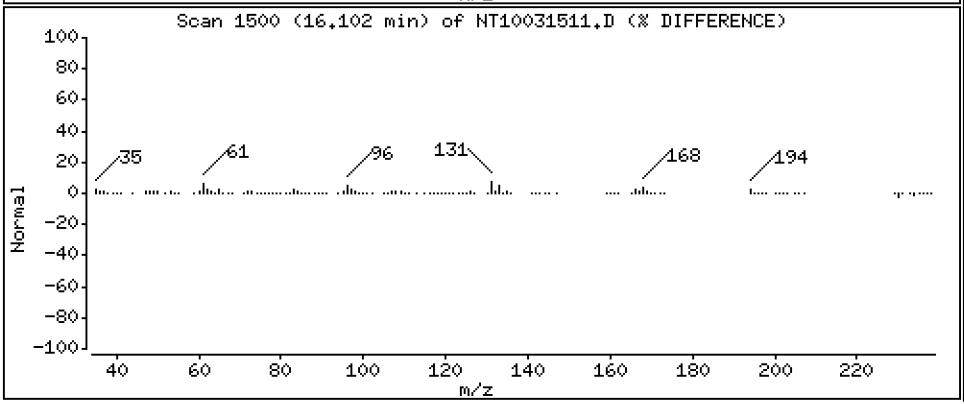












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230315.b\NT10031511.D
Lab Smp Id: SLC0228-SCV1
Inj Date : 16-MAR-2023 02:16
Operator : VTS Inst ID: nt10.i
Smp Info : SLC0228-SCV1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230315.b\ABN.m
Meth Date : 16-Mar-2023 12:06 van Quant Type: ISTD
Cal Date : 16-MAR-2023 00:22 Cal File: NT10031508.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
$	1 2-Fluorophenol	112	Compound Not Detected.					
$	2 Phenol-d5	99	Compound Not Detected.					
	3 Phenol	94	8.659	8.652	(0.931)	281600	4.41237	4.412
$	5 2-Chlorophenol-d4	132	Compound Not Detected.					
	4 Bis(2-Chloroethyl)ether	93	8.837	8.837	(0.950)	248892	5.25818	5.258
	6 2-Chlorophenol	128	8.960	8.961	(0.963)	233608	4.27685	4.277
	7 1,3-Dichlorobenzene	146	9.239	9.231	(0.993)	275540	4.77157	4.772
*	8 1,4-Dichlorobenzene-d4	152	9.301	9.293	(1.000)	154809	4.00000	
	9 1,4-Dichlorobenzene	146	9.332	9.325	(1.003)	274051	4.91272	4.913
$	10 1,2-Dichlorobenzene-d4	152	Compound Not Detected.					
	12 1,2-Dichlorobenzene	146	9.689	9.682	(1.042)	268028	4.88215	4.882
	11 Benzyl alcohol	108	9.557	9.557	(1.028)	147597	4.92722	4.927
	14 2,2'-oxybis(1-Chloropropane)	121	9.860	9.860	(1.060)	100179	6.21363	6.214
	13 2-Methylphenol	108	9.775	9.767	(1.051)	196115	4.21542	4.215
	17 Hexachloroethane	117	10.279	10.271	(1.105)	114513	5.00332	5.003
	16 N-Nitroso-di-n-propylamine	70	10.116	10.108	(1.088)	190250	5.17896	5.179
	15 4-Methylphenol	108	10.046	10.031	(1.080)	213951	4.36462	4.365
$	18 Nitrobenzene-d5	82	Compound Not Detected.					
	19 Nitrobenzene	77	10.426	10.419	(0.885)	274714	4.85798	4.858
	20 Isophorone	82	10.861	10.861	(0.922)	556741	7.69604	7.696
	21 2-Nitrophenol	139	11.047	11.048	(0.938)	110302	3.99452	3.995
	22 2,4-Dimethylphenol	107	11.081	11.082	(0.941)	188638	3.63181	3.632
	23 Bis(2-Chloroethoxy)methane	93	11.285	11.285	(0.958)	273219	5.65409	5.654
	24 Benzoic acid	105	11.217	11.166	(0.952)	173961	5.95241	5.952
	25 2,4-Dichlorophenol	162	11.489	11.489	(0.975)	195480	4.70301	4.703
	26 1,2,4-Trichlorobenzene	180	11.685	11.685	(0.992)	222176	4.55366	4.554
*	27 Naphthalene-d8	136	11.777	11.770	(1.000)	570882	4.00000	
	28 Naphthalene	128	11.816	11.816	(1.003)	713318	4.71662	4.717
	29 4-Chloroaniline	127	11.940	11.940	(1.014)	223402	3.78650	3.787
	30 Hexachlorobutadiene	225	12.171	12.172	(1.033)	138198	4.83404	4.834
	31 4-Chloro-3-methylphenol	107	12.876	12.876	(1.093)	208794	4.64027	4.640
	32 2-Methylnaphthalene	142	13.201	13.201	(1.121)	501627	4.59617	4.596
	33 Hexachlorocyclopentadiene	237	13.665	13.665	(0.888)	132827	4.72902	4.729

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
34	2,4,6-Trichlorophenol	196	13.820	13.820	(0.898)	137849	4.59559	4.596
35	2,4,5-Trichlorophenol	196	13.889	13.890	(0.903)	146935	4.40855	4.409
$ 36	2-Fluorobiphenyl	172	Compound Not Detected.					
37	2-Chloronaphthalene	162	14.199	14.191	(0.923)	466196	4.79589	4.796
38	2-Nitroaniline	65	14.454	14.447	(0.940)	134108	4.91137	4.911
39	Dimethylphthalate	163	14.880	14.873	(0.967)	486790	4.93747	4.937
40	Acenaphthylene	152	15.074	15.066	(0.980)	727839	4.80509	4.805
41	2,6-Dinitrotoluene	165	15.020	15.012	(0.976)	112840	5.29815	5.298
* 42	Acenaphthene-d10	164	15.383	15.383	(1.000)	303490	4.00000	
43	3-Nitroaniline	138	15.306	15.298	(0.995)	120530	5.01393	5.014
44	Acenaphthene	153	15.453	15.445	(1.005)	446914	4.77589	4.776
45	2,4-Dinitrophenol	184	15.515	15.515	(1.009)	27409	2.12395	2.124
46	Dibenzofuran	168	15.777	15.770	(1.026)	641379	4.64790	4.648
47	4-Nitrophenol	109	15.600	15.592	(1.014)	59816	3.96568	3.966
48	2,4-Dinitrotoluene	165	15.824	15.817	(1.029)	144262	4.51019	4.510
50	Diethylphthalate	149	16.326	16.319	(1.061)	503887	5.20905	5.209
49	Fluorene	166	16.489	16.481	(1.072)	511113	4.70796	4.708
51	4-Chlorophenyl-phenylether	204	16.473	16.466	(1.071)	257762	4.99294	4.993
52	4-Nitroaniline	138	16.566	16.566	(1.077)	106701	4.92532	4.925
53	4,6-Dinitro-2-methylphenol	198	16.666	16.658	(0.905)	56867	3.51509	3.515
54	N-Nitrosodiphenylamine	169	16.720	16.712	(0.908)	342454	4.80180	4.802
$ 55	2,4,6-Tribromophenol	330	Compound Not Detected.					
56	4-Bromophenyl-phenylether	248	17.475	17.476	(0.949)	150956	5.05964	5.060
57	Hexachlorobenzene	284	17.800	17.793	(0.966)	143751	4.59553	4.596
58	Pentachlorophenol	266	18.149	18.149	(0.985)	75635	4.05676	4.057
* 59	Phenanthrene-d10	188	18.420	18.420	(1.000)	533431	4.00000	
60	Phenanthrene	178	18.466	18.466	(1.003)	669357	4.60181	4.602
61	Anthracene	178	18.559	18.559	(1.008)	581438	4.16715	4.167
62	Carbazole	167	18.884	18.884	(1.025)	591382	4.72989	4.730
63	Di-n-butylphthalate	149	19.665	19.666	(1.068)	830680	4.96738	4.967
64	Fluoranthene	202	20.841	20.841	(0.888)	782432	4.47248	4.472
65	Pyrene	202	21.267	21.267	(0.907)	778668	4.33892	4.339
$ 66	Terphenyl-d14	244	Compound Not Detected.					
67	Butylbenzylphthalate	149	22.459	22.460	(0.957)	314007	4.83397	4.834
68	Benzo(a)anthracene	228	23.427	23.419	(0.999)	714166	4.64722	4.647
* 69	Chrysene-d12	240	23.458	23.450	(1.000)	435381	4.00000	
70	3,3'-Dichlorobenzidine	252	23.373	23.373	(0.996)	483256	9.81738	9.817
71	Chrysene	228	23.497	23.489	(1.002)	677151	4.51017	4.510
72	bis(2-Ethylhexyl)phthalate	149	23.481	23.474	(0.959)	453669	4.67998	4.680
* 134	Di-n-octylphthalate-d4	153	24.487	24.480	(1.000)	660827	4.00000	
73	Di-n-octylphthalate	149	24.495	24.488	(1.000)	855562	4.94734	4.947
74	Benzo(b)fluoranthene	252	25.370	25.362	(0.969)	737887	4.60200	4.602(H)
75	Benzo(k)fluoranthene	252	25.416	25.409	(0.970)	797521	4.89839	4.898
76	Benzo(a)pyrene	252	26.067	26.052	(0.995)	698616	4.87338	4.873
* 77	Perylene-d12	264	26.191	26.183	(1.000)	494648	4.00000	
78	Indeno(1,2,3-cd)pyrene	276	29.005	28.990	(1.107)	834672	4.57655	4.577
79	Dibenzo(a,h)anthracene	278	29.021	29.005	(1.108)	688433	4.54663	4.547
80	Benzo(g,h,i)perylene	276	29.852	29.821	(1.140)	724463	4.59000	4.590
90	N-Nitrosodimethylamine	74	4.928	4.936	(0.530)	155126	5.19378	5.194
91	Aniline	93	Compound Not Detected.					
93	Benzidine	184	21.073	21.066	(0.898)	314737	4.37985	4.380
103	Pyridine	79	4.959	4.997	(0.533)	244801	5.33678	5.337
105	1-methylnaphthalene	142	13.425	13.425	(1.140)	487498	4.87520	4.875
111	Azobenzene (1,2-DP-Hydrazine)	77	16.797	16.789	(1.092)	533524	4.93744	4.937

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.370	25.409	(0.969)	1468165	9.48349	9.483
120 2,3,4,6-Tetrachlorophenol	232	16.102	16.103	(1.047)	124685	3.97959	3.980

QC Flag Legend

H - Operator selected an alternate compound hit.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT10031511.D
Lab Smp Id: SLC0228-SCV1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230315.b\ABN.m
Misc Info:

Calibration Date: 15-MAR-2023
Calibration Time: 21:50
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	171542	85771	343084	154809	-9.75
27 Naphthalene-d8	624466	312233	1248932	570882	-8.58
42 Acenaphthene-d10	337226	168613	674452	303490	-10.00
59 Phenanthrene-d10	572849	286425	1145698	533431	-6.88
69 Chrysene-d12	347068	173534	694136	435381	25.45
134 Di-n-octylphthala	500317	250159	1000634	660827	32.08
77 Perylene-d12	421549	210775	843098	494648	17.34

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.30	8.80	9.80	9.30	-0.00
27 Naphthalene-d8	11.78	11.28	12.28	11.78	0.01
42 Acenaphthene-d10	15.38	14.88	15.88	15.38	0.00
59 Phenanthrene-d10	18.42	17.92	18.92	18.42	0.00
69 Chrysene-d12	23.45	22.95	23.95	23.46	0.04
134 Di-n-octylphthala	24.48	23.98	24.98	24.49	0.03
77 Perylene-d12	26.18	25.68	26.68	26.19	0.03

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

REVIEW SUMMARY FOR FILE - NT10031511.D

Lab ID: SLC0228-SCV1
nt10.i, 20230315.b\ABN.m,   16-MAR-2023 02:16

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

** FIRST SURROGATE NOT FOUND. ICAL Check not performed **

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.952	0.000	0.9524	Benzoic acid

RRT check based on Ccal File: NT10031508.D

On Column LOD for nt10.i, 20230315.b\ABN.m, ICAL.sub = 0.0000

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

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8270E

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GC00046
Laboratory ID: SLC0228-SCV1
Sequence: SLC0228
Standard ID: L002833

ANALYTE	EXPECTED (ug/mL)	FOUND (ug/mL)	% DRIFT	QC LIMIT
Phenol	5.0000	4.4	-11.8	20.00
4-Methylphenol	5.0000	4.4	-12.7	20.00
Naphthalene	5.0000	4.7	-5.7	20.00
2-Methylnaphthalene	5.0000	4.6	-8.1	20.00
Acenaphthylene	5.0000	4.8	-3.9	20.00
Dimethylphthalate	5.0000	4.9	-1.3	20.00
Acenaphthene	5.0000	4.8	-4.5	20.00
Dibenzofuran	5.0000	4.6	-7.0	20.00
Fluorene	5.0000	4.7	-5.8	20.00
Phenanthrene	5.0000	4.6	-8.0	20.00
Anthracene	5.0000	4.2	-16.7	20.00
Fluoranthene	5.0000	4.5	-10.6	20.00
Pyrene	5.0000	4.3	-13.2	20.00
Butylbenzylphthalate	5.0000	4.8	-3.3	20.00
Benzo(a)anthracene	5.0000	4.6	-7.1	20.00
Chrysene	5.0000	4.5	-9.8	20.00
bis(2-Ethylhexyl)phthalate	5.0000	4.7	-6.4	20.00
Benzofluoranthenes, Total	10.000	9.5	-5.2	20.00
Benzo(a)pyrene	5.0000	4.9	-2.5	20.00
Indeno(1,2,3-cd)pyrene	5.0000	4.6	-8.5	20.00
Dibenzo(a,h)anthracene	5.0000	4.5	-9.1	20.00
Benzo(g,h,i)perylene	5.0000	4.6	-8.2	20.00

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

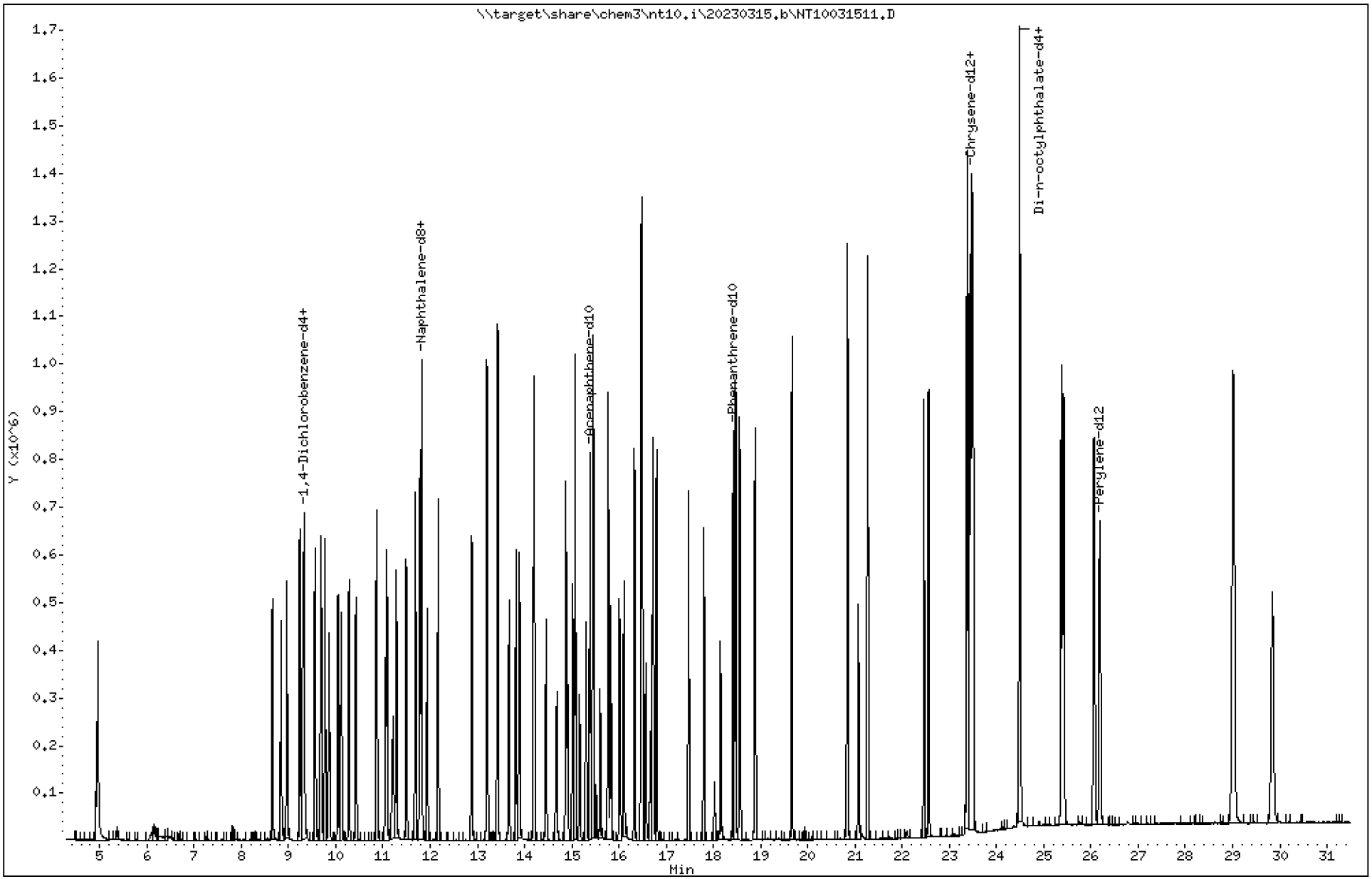
Instrument: nt10.i

Sample Info: SLC0228-SCV1

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

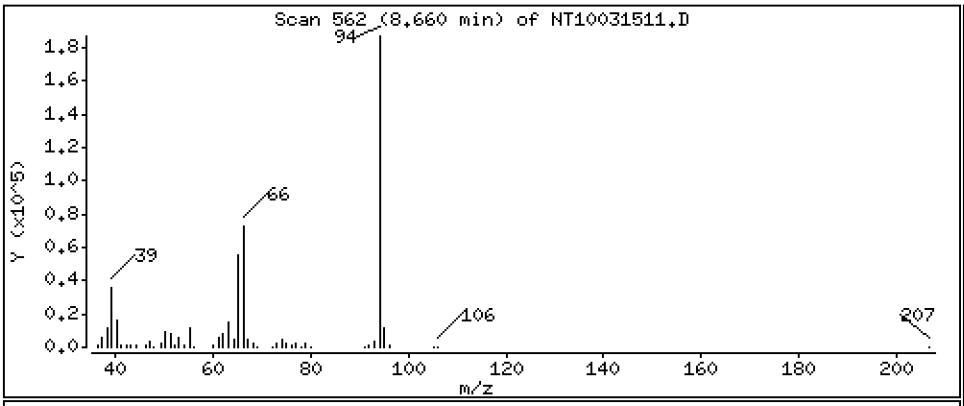
Operator: VTS

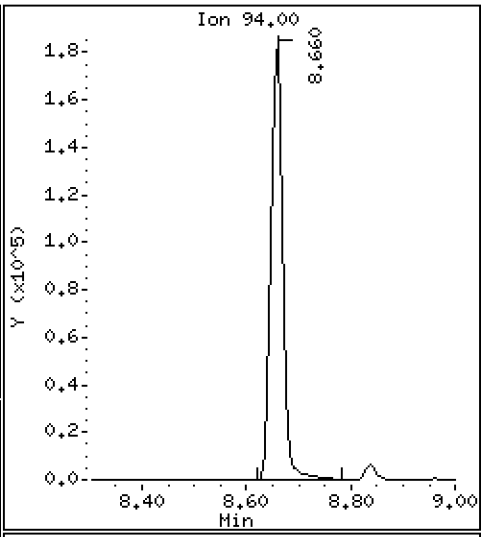
Column phase: ZB-5msi

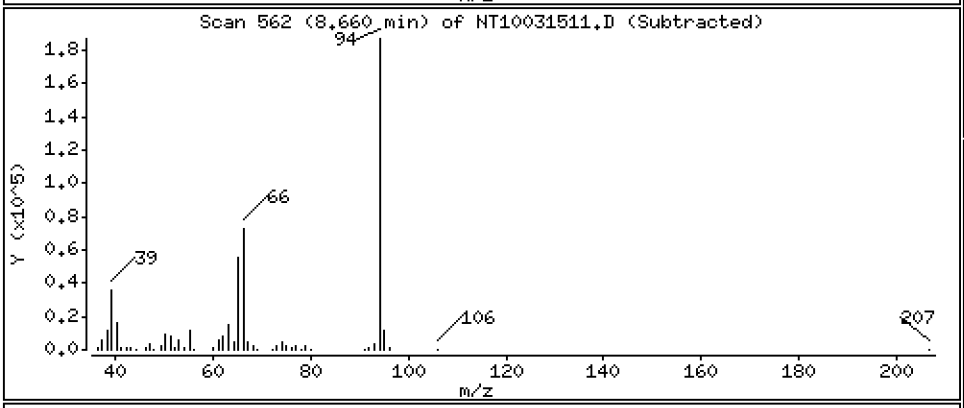
Column diameter: 0.25

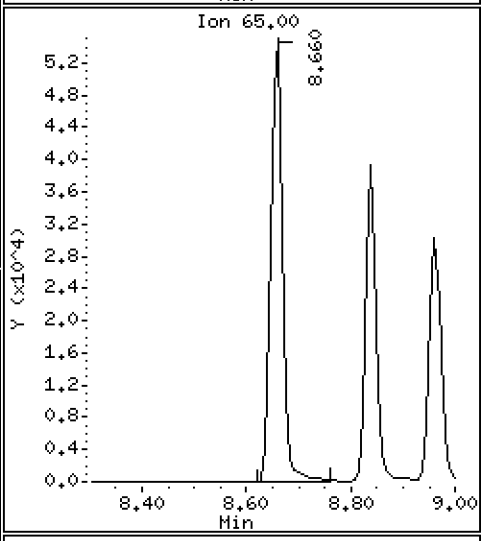
3 Phenol

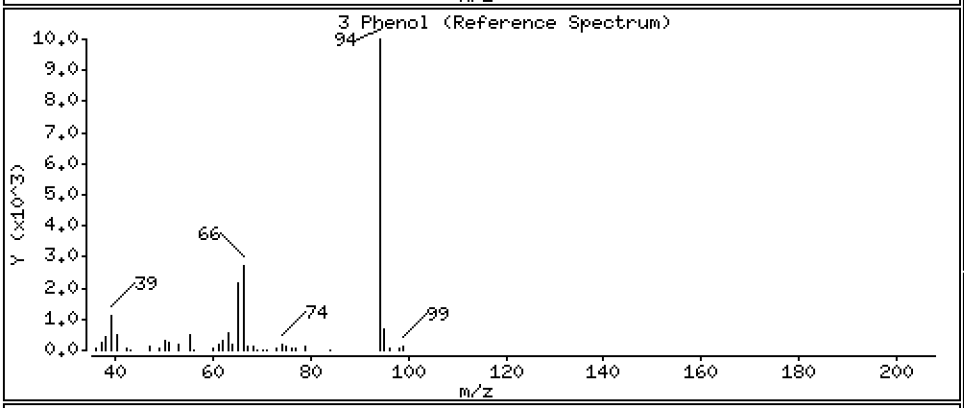
Concentration: 4.412 ug/mL

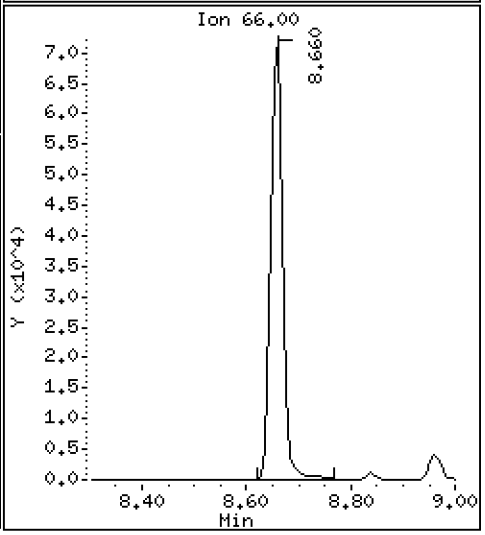


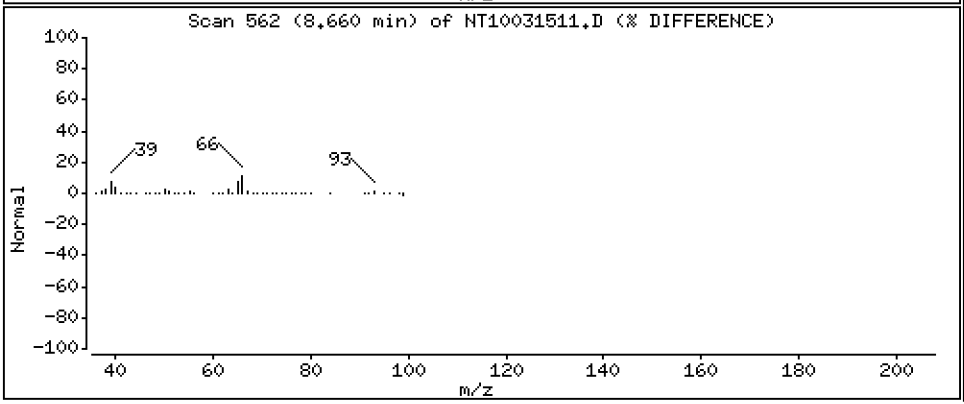












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

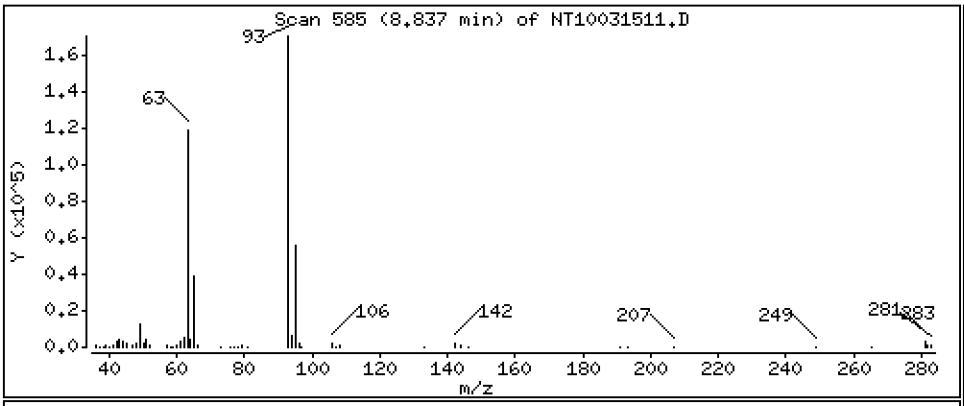
Operator: VTS

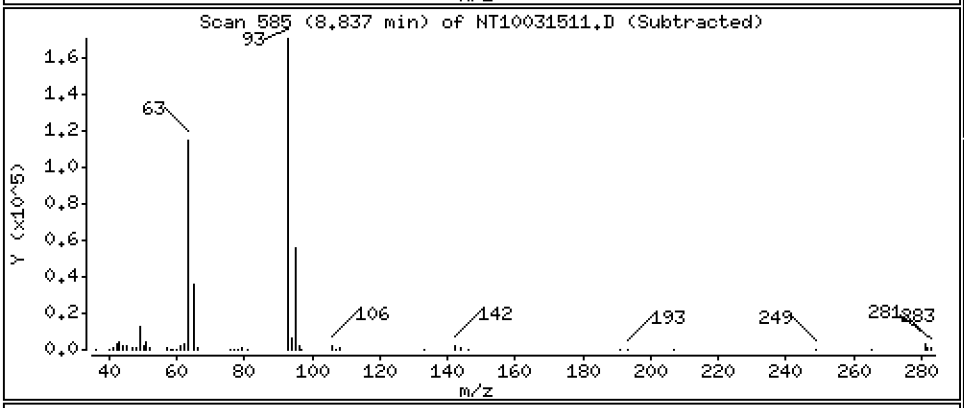
Column phase: ZB-5msi

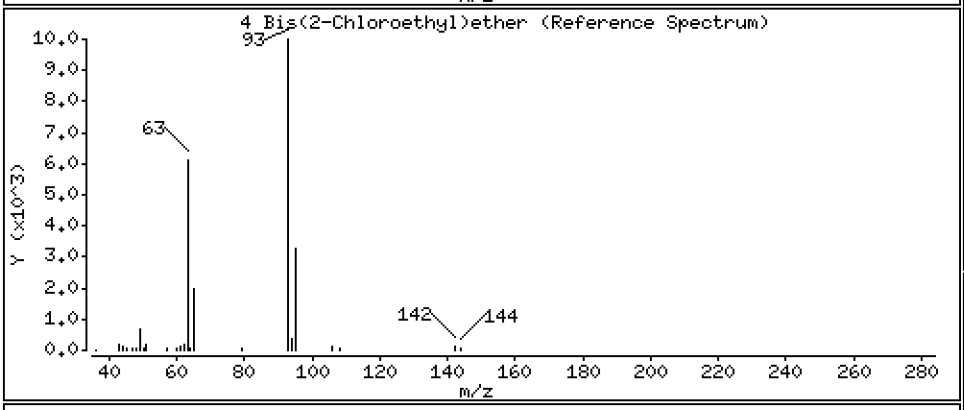
Column diameter: 0.25

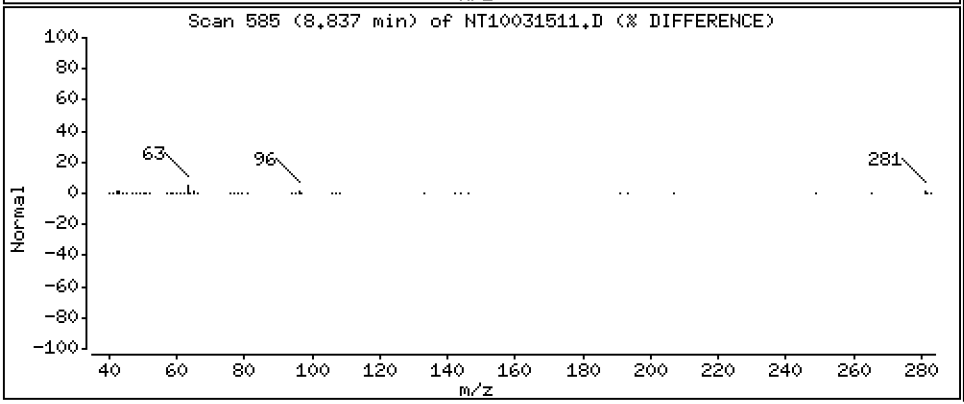
4 Bis(2-Chloroethyl)ether

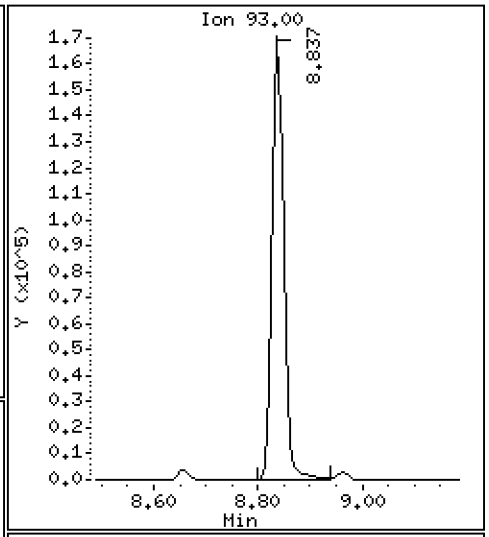
Concentration: 5.258 ug/mL

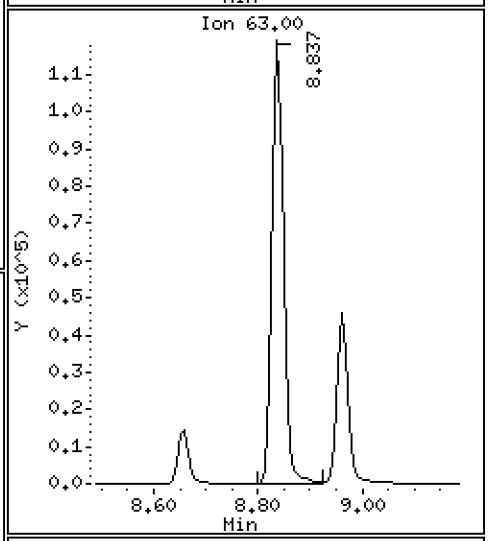


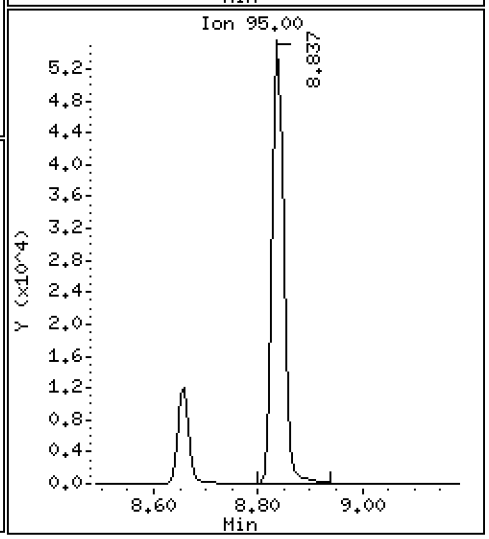












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

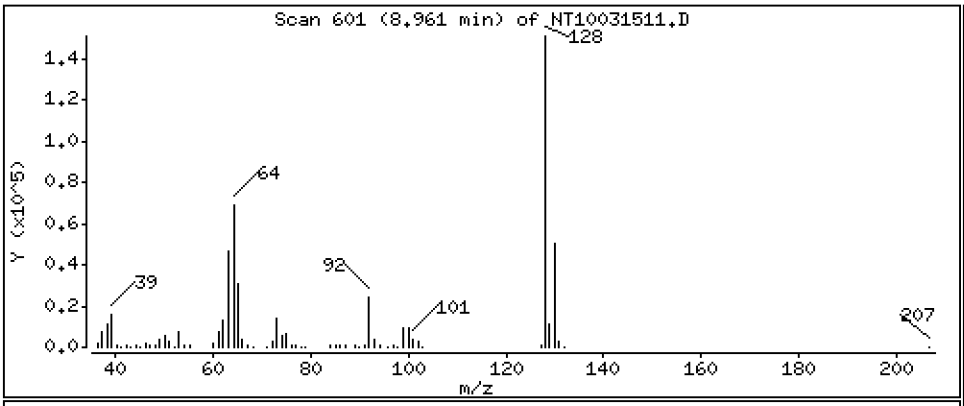
Operator: VTS

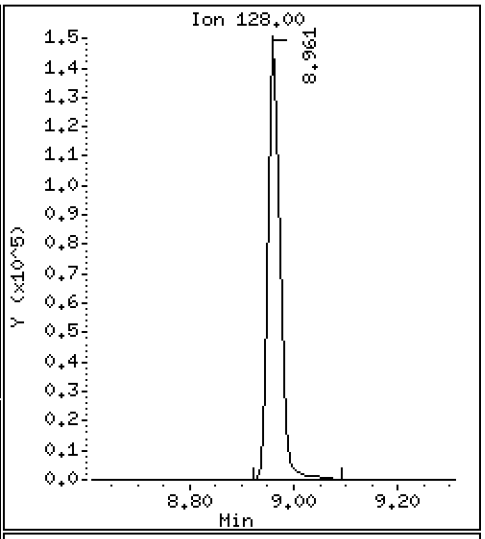
Column phase: ZB-5msi

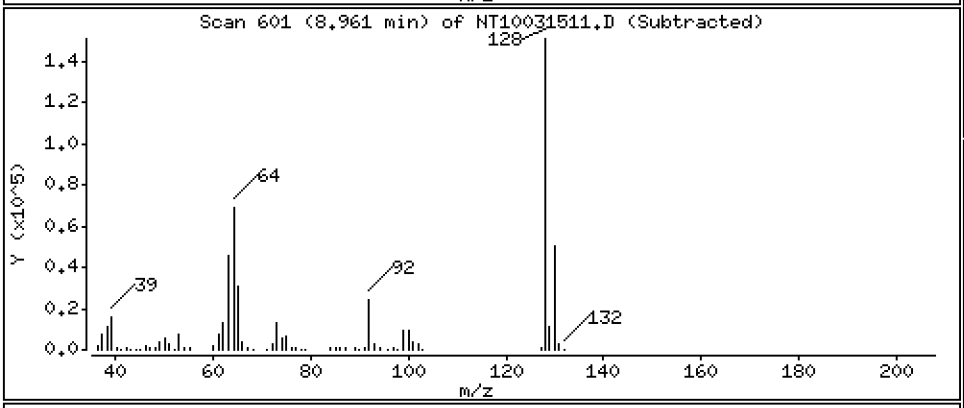
Column diameter: 0.25

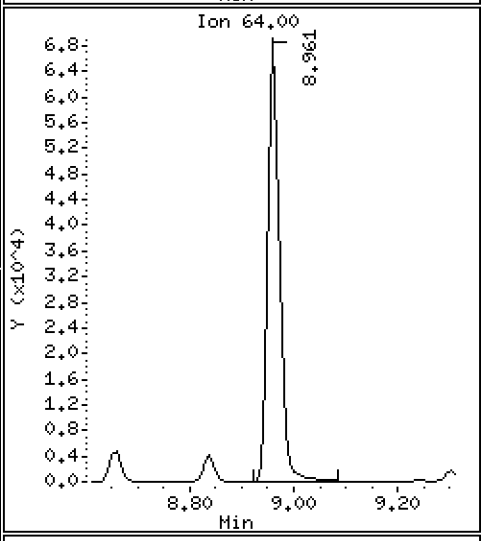
6 2-Chlorophenol

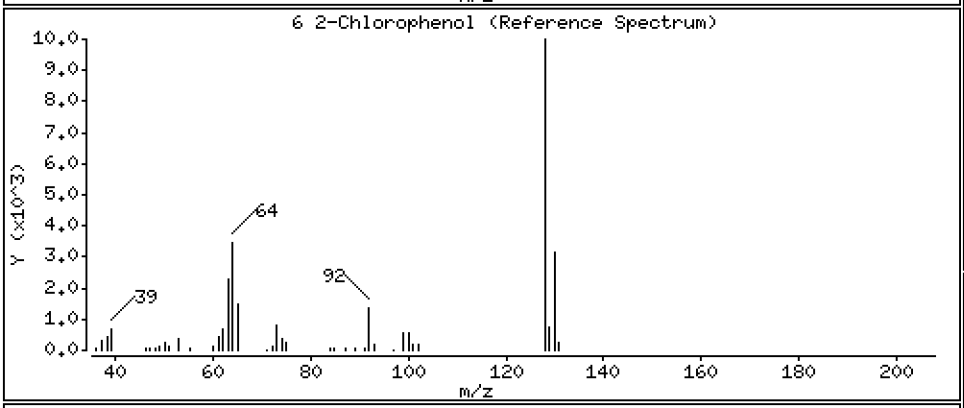
Concentration: 4.277 ug/mL

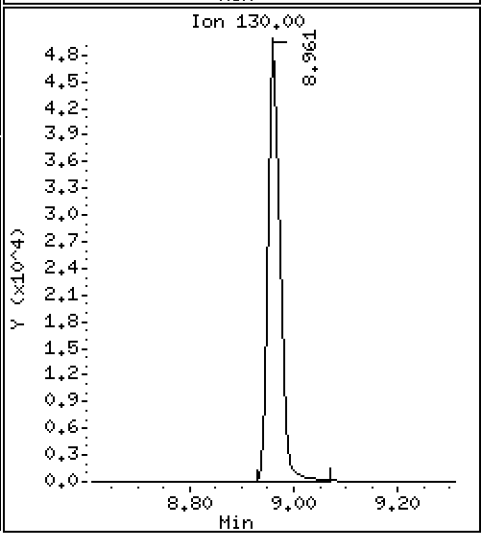


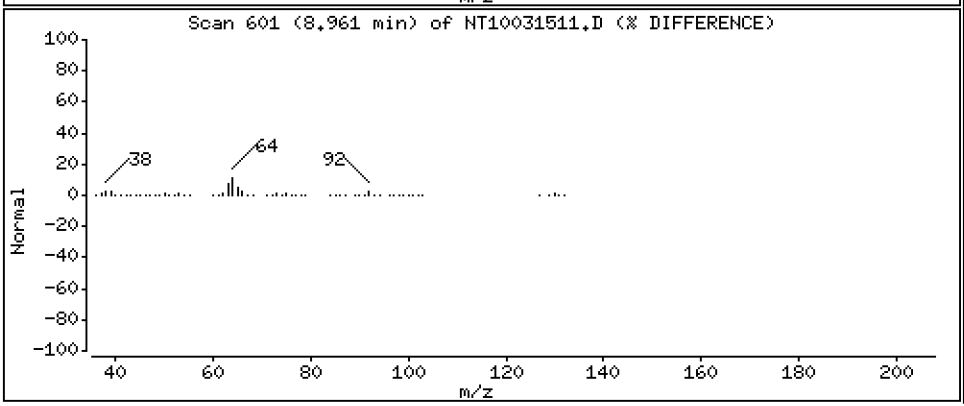












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

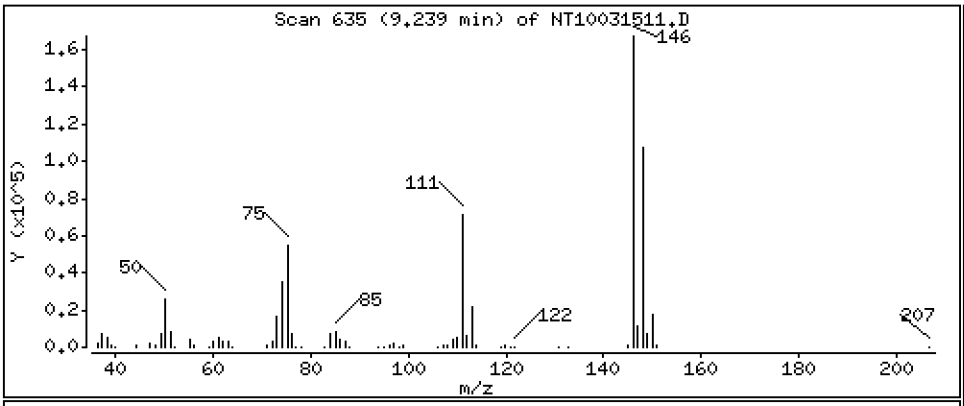
Operator: VTS

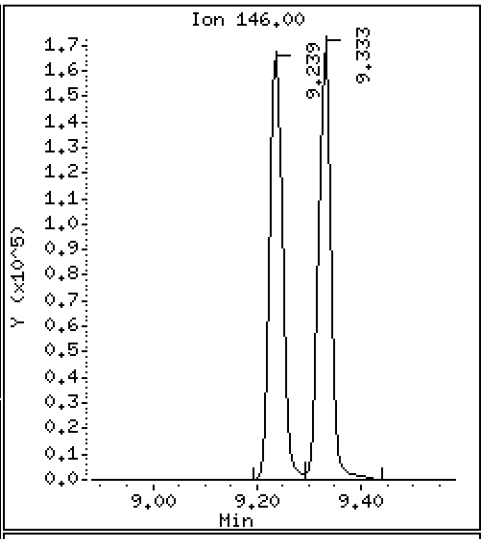
Column phase: ZB-5msi

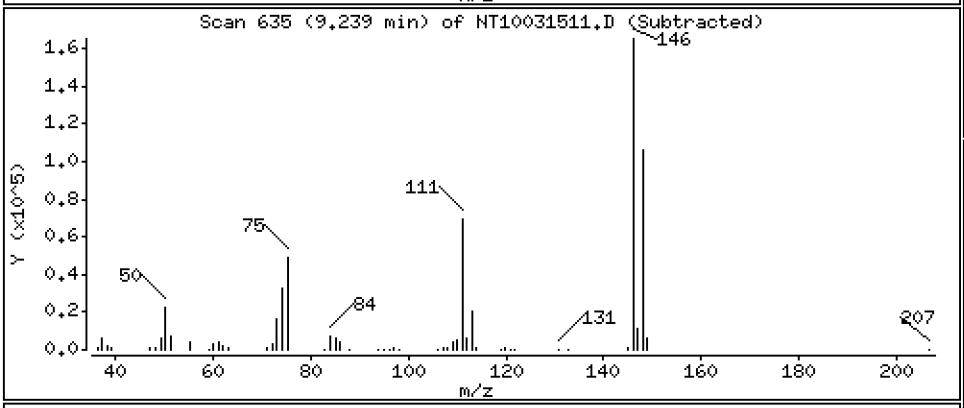
Column diameter: 0.25

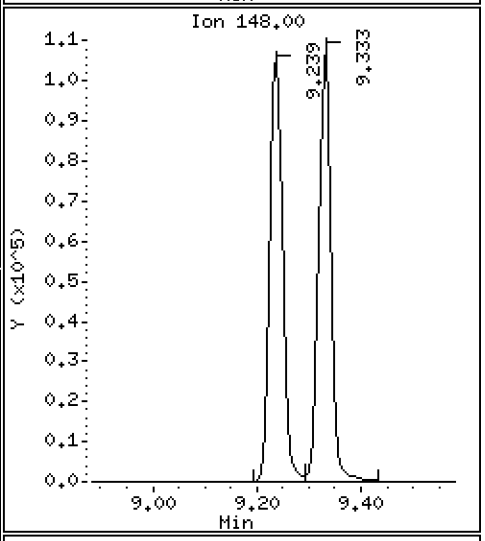
7 1,3-Dichlorobenzene

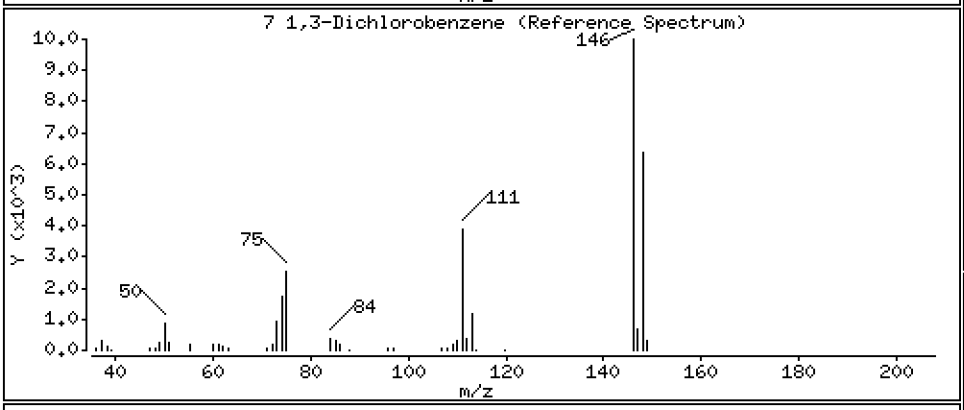
Concentration: 4.772 ug/mL

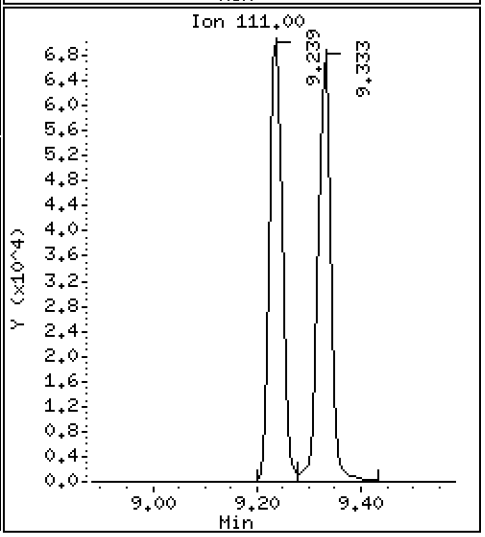


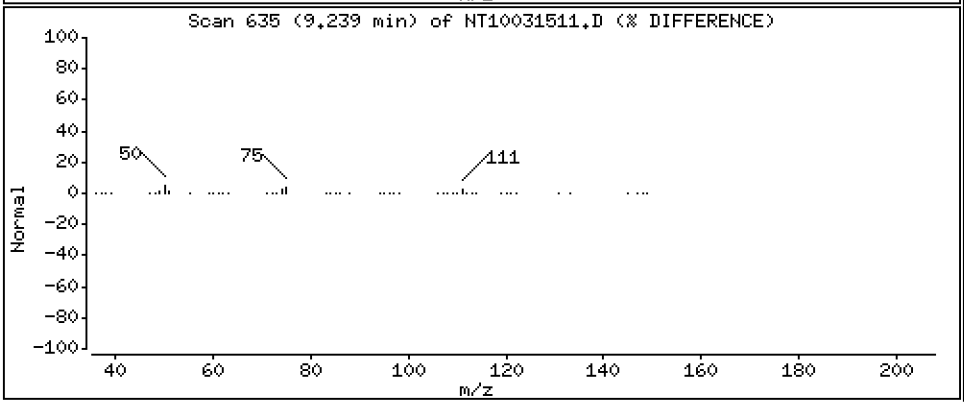












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

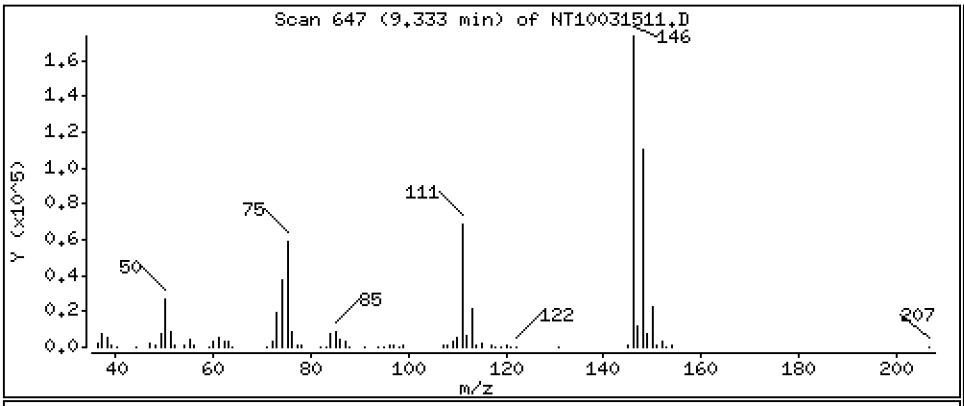
Operator: VTS

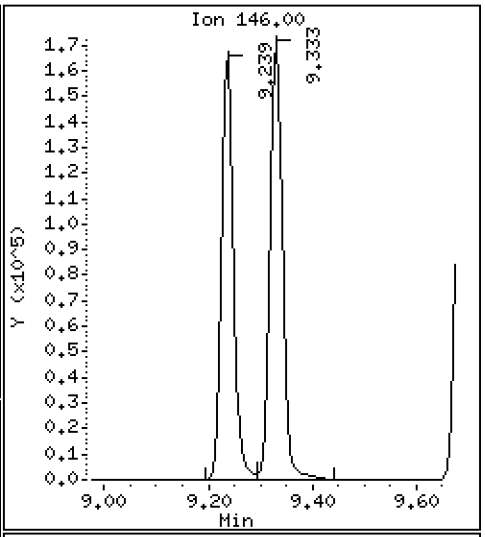
Column phase: ZB-5msi

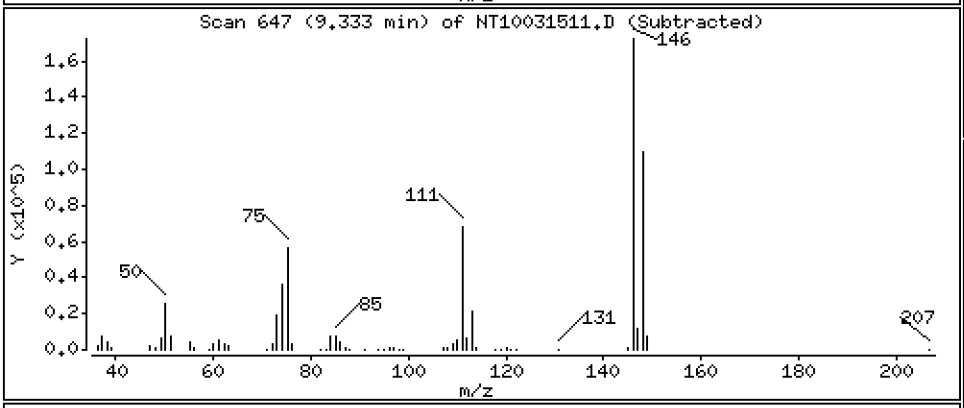
Column diameter: 0.25

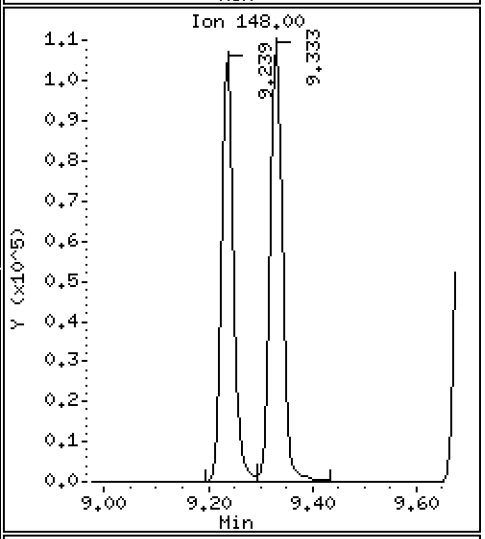
9 1,4-Dichlorobenzene

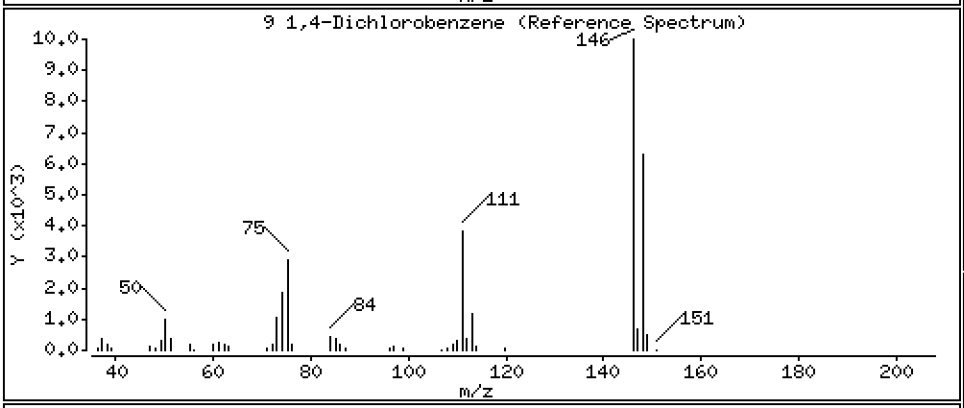
Concentration: 4.913 ug/mL

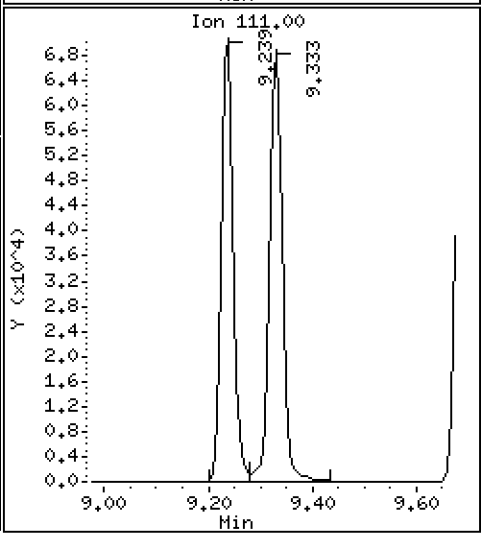


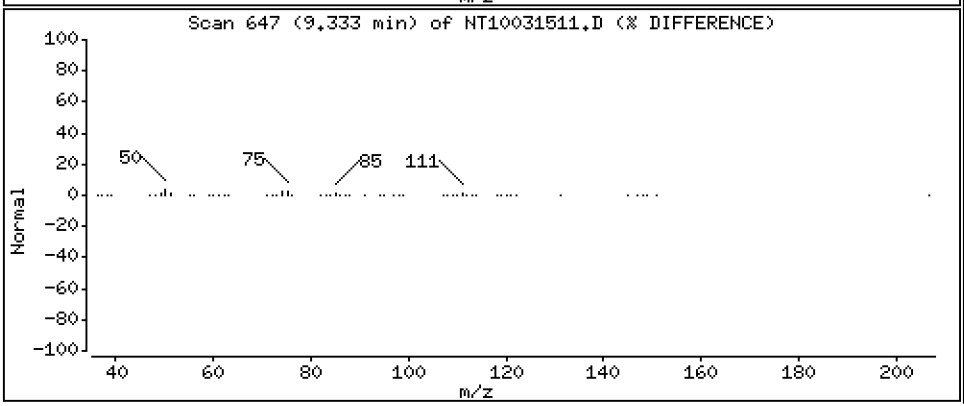












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

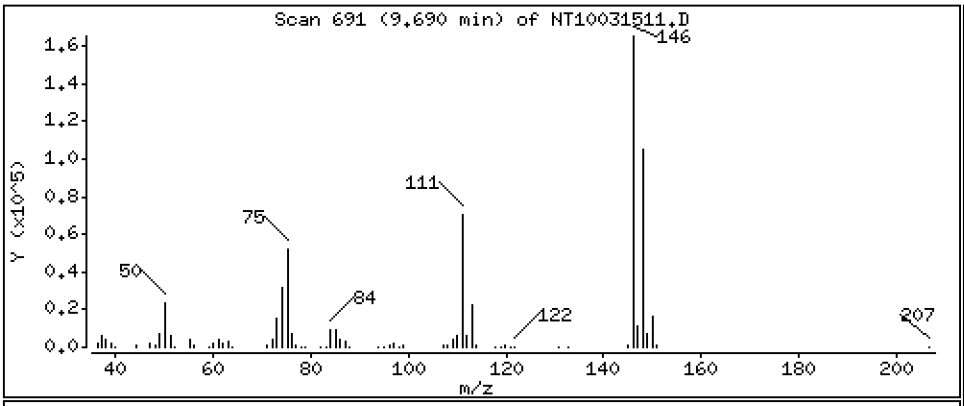
Operator: VTS

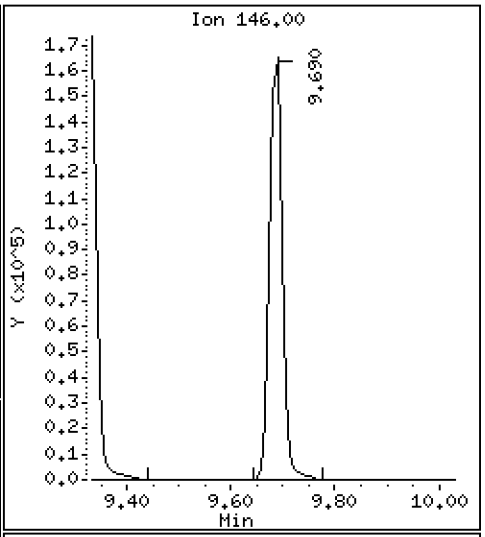
Column phase: ZB-5msi

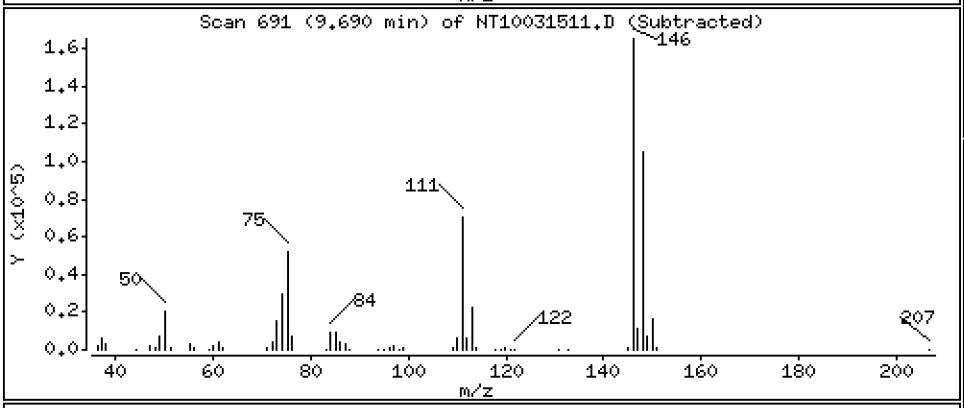
Column diameter: 0.25

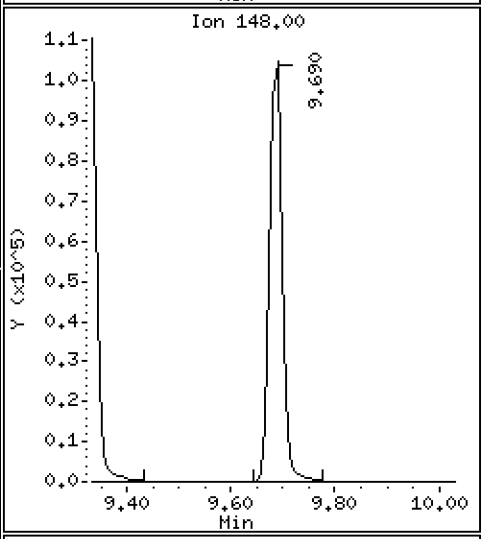
12 1,2-Dichlorobenzene

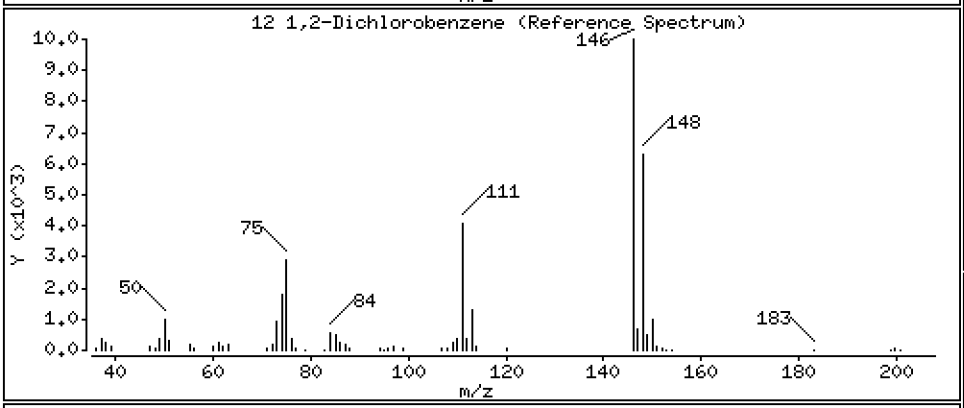
Concentration: 4.882 ug/mL

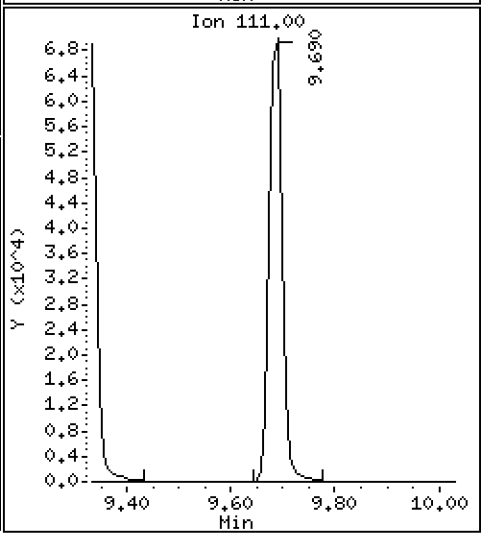


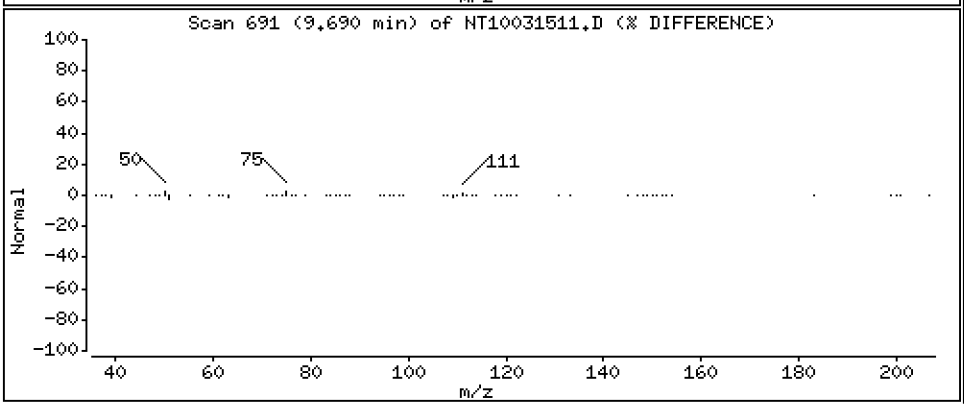












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

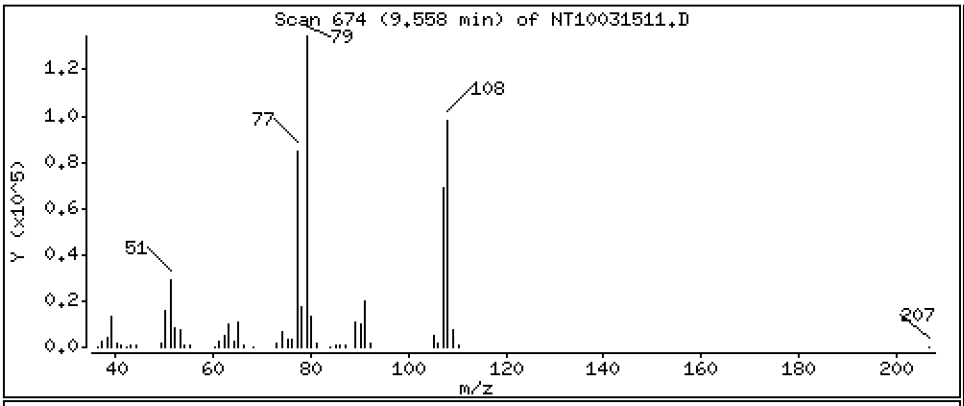
Operator: VTS

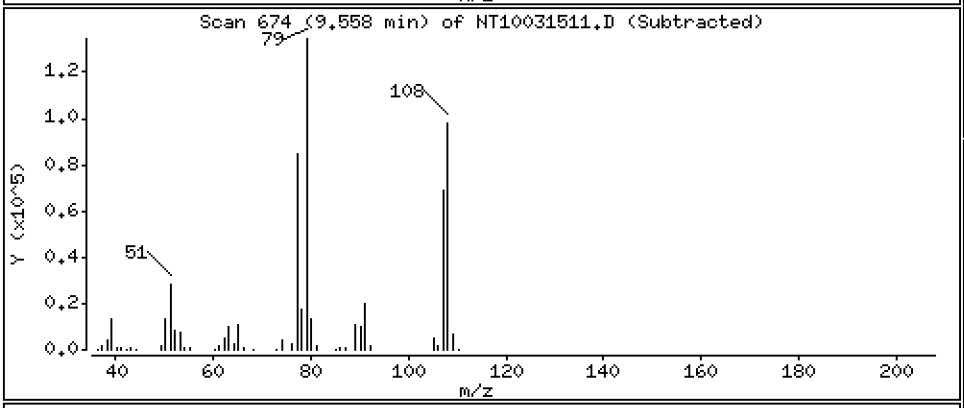
Column phase: ZB-5msi

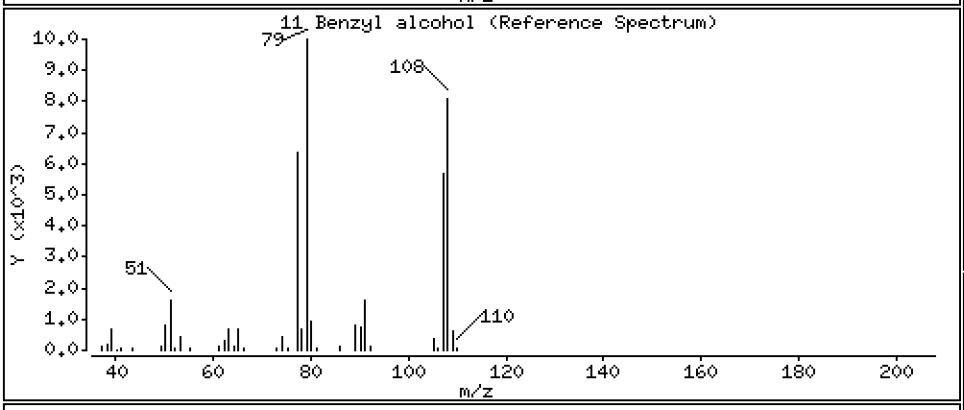
Column diameter: 0.25

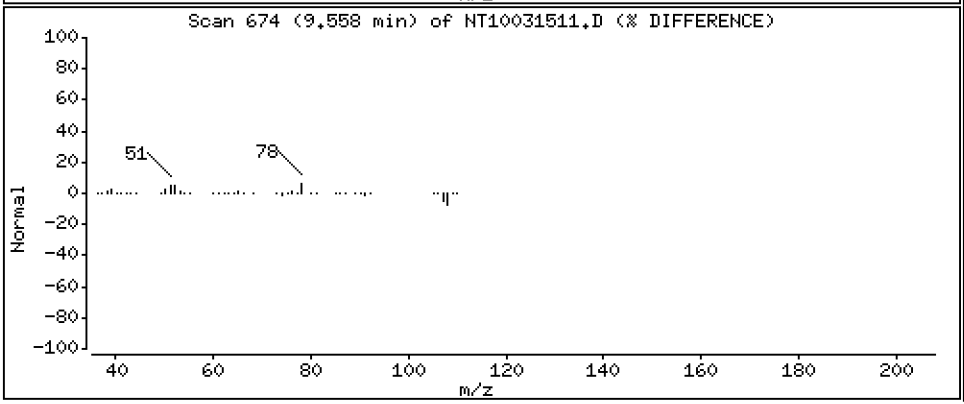
11 Benzyl alcohol

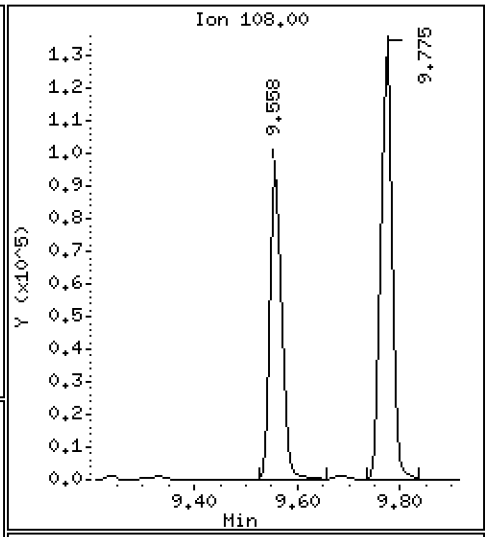
Concentration: 4.927 ug/mL

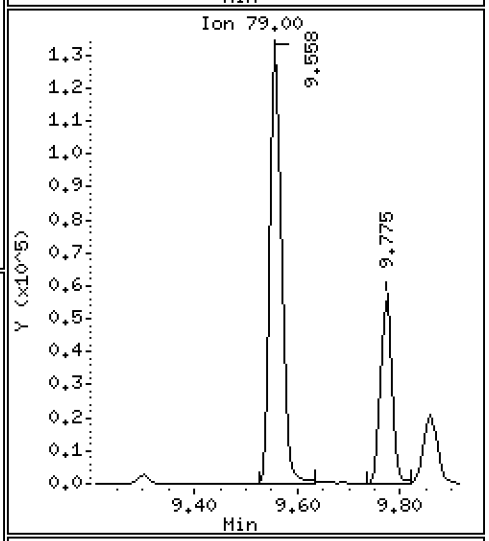


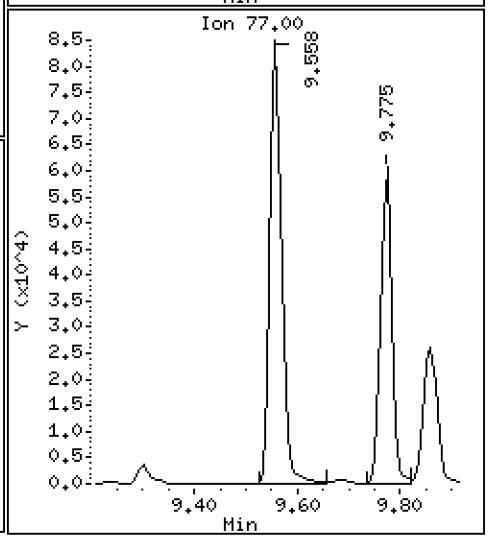












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

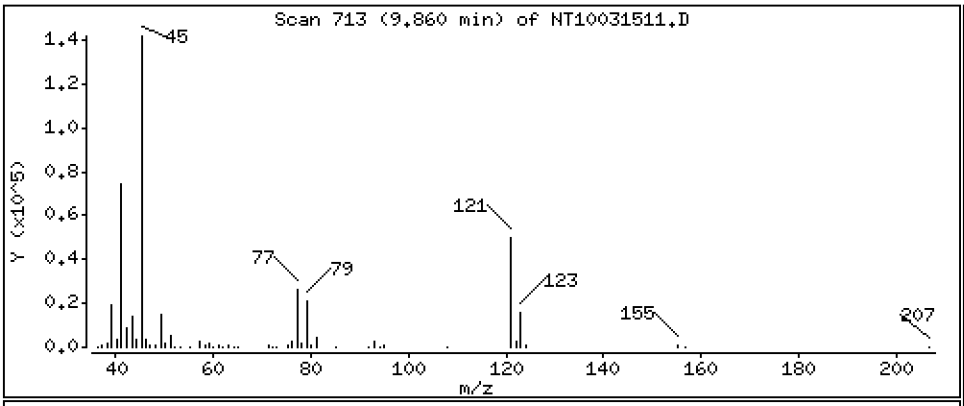
Operator: VTS

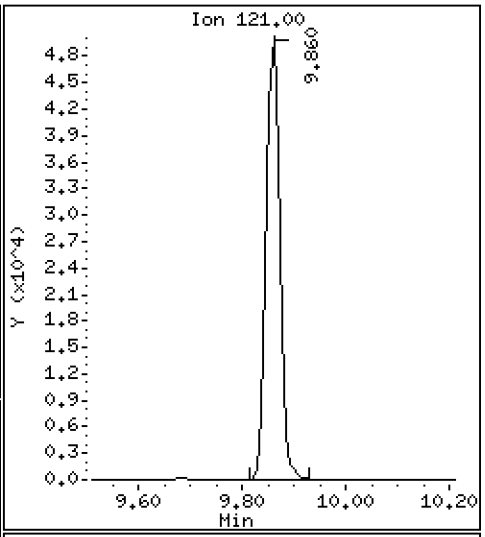
Column phase: ZB-5msi

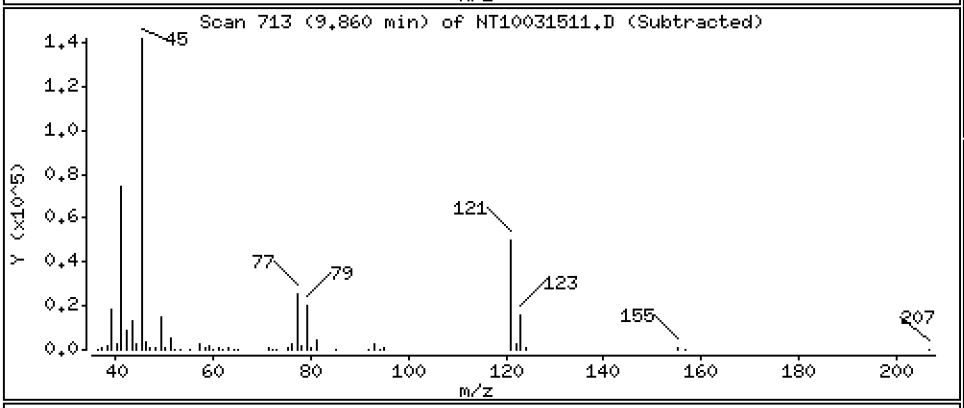
Column diameter: 0.25

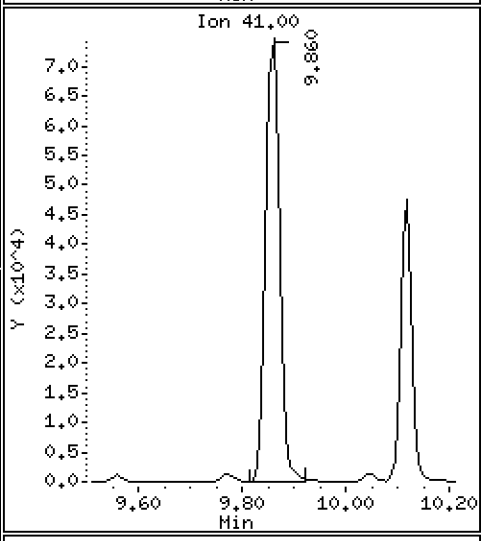
14 2,2'-oxybis(1-Chloropropane)

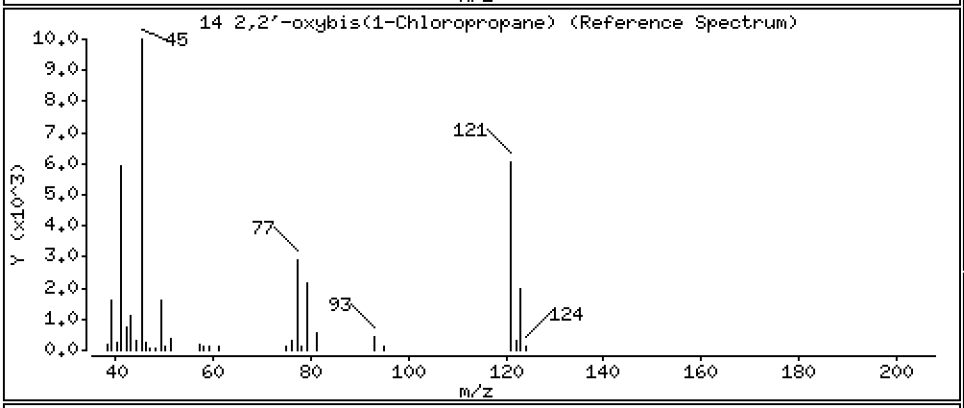
Concentration: 6.214 ug/mL

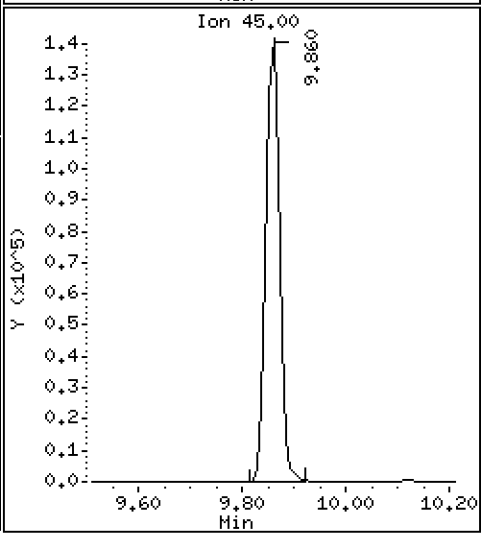


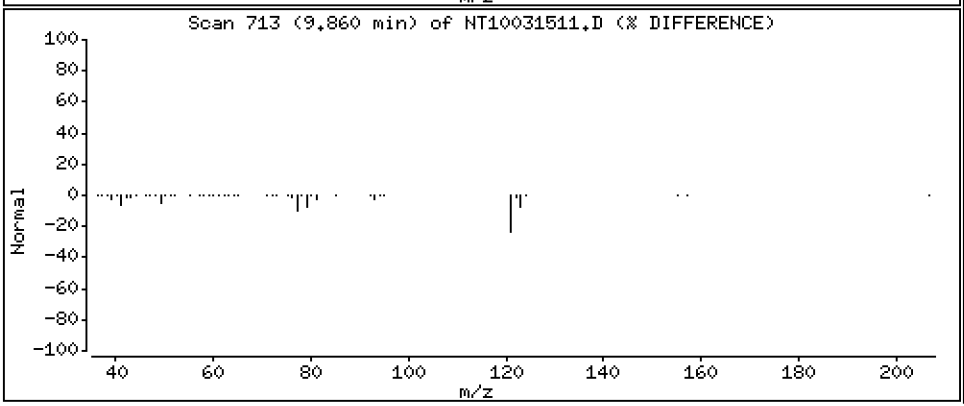












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

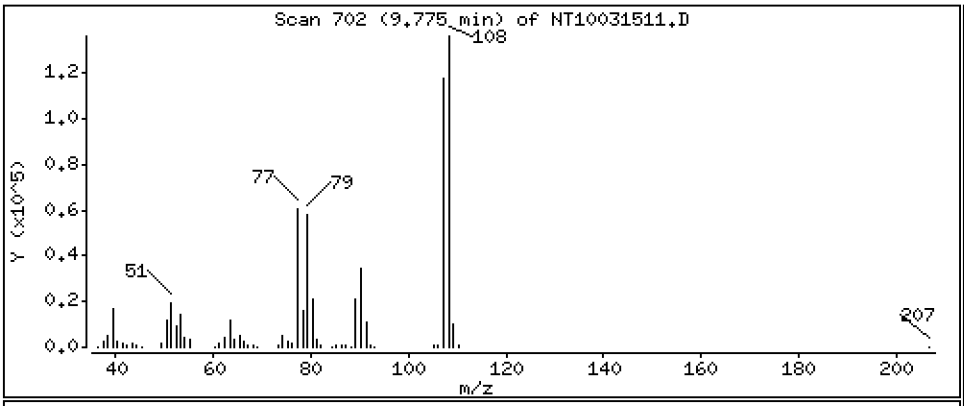
Operator: VTS

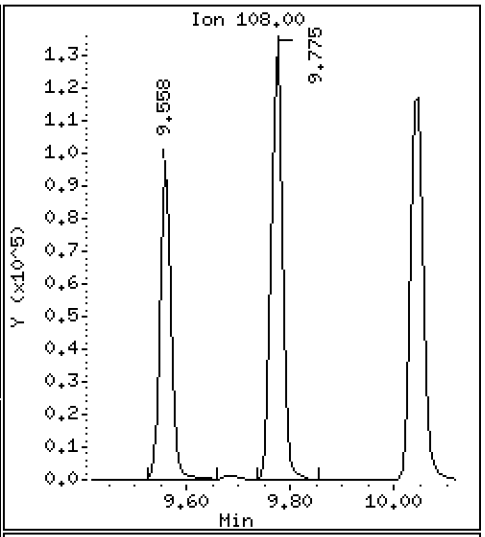
Column phase: ZB-5msi

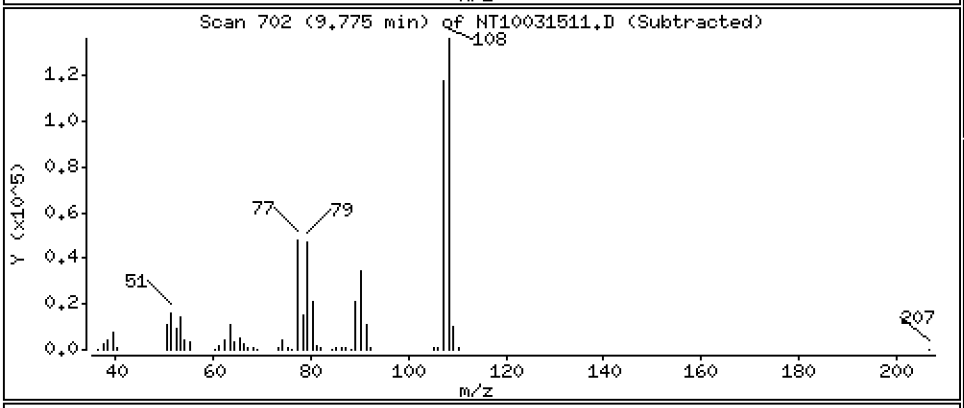
Column diameter: 0.25

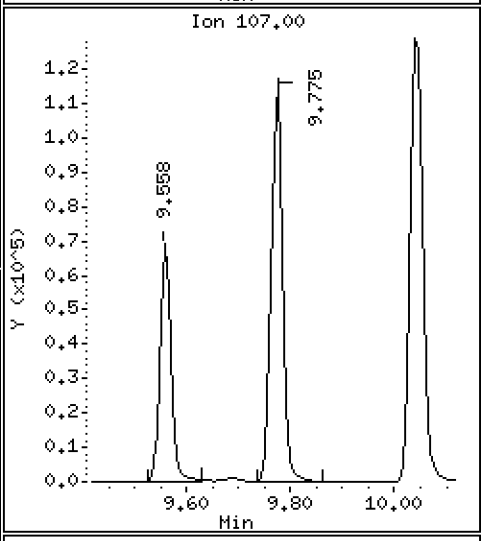
13 2-Methylphenol

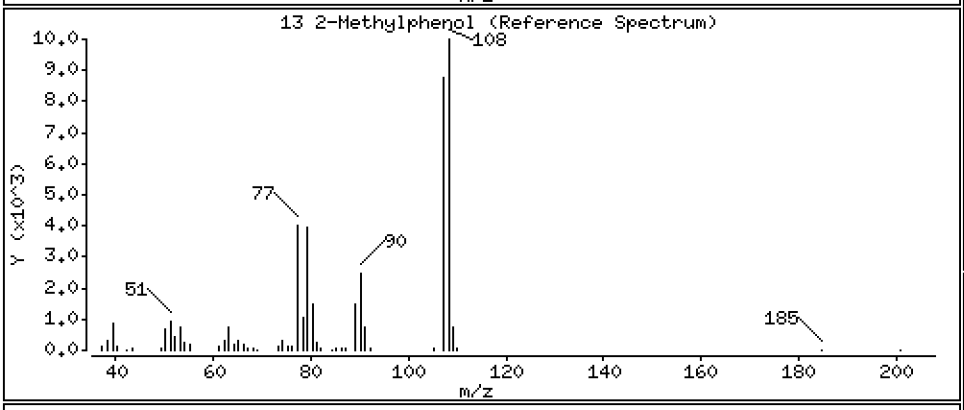
Concentration: 4.215 ug/mL

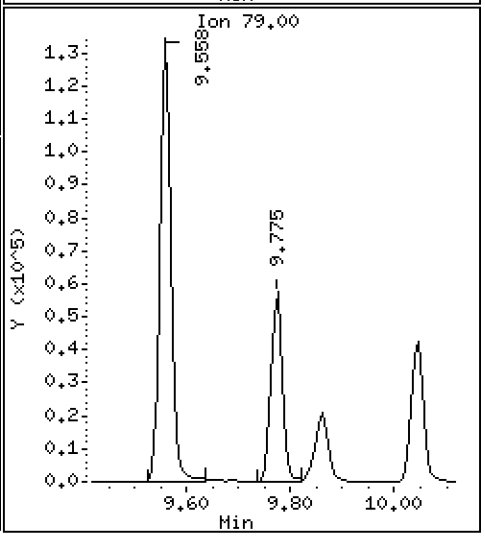


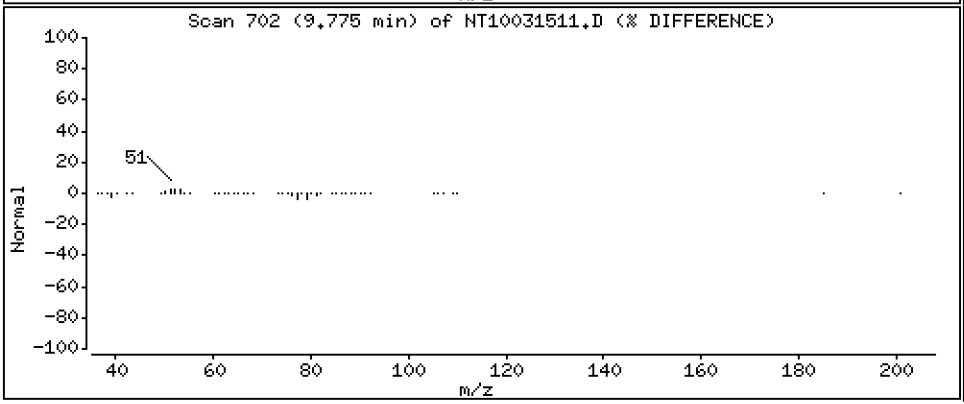












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

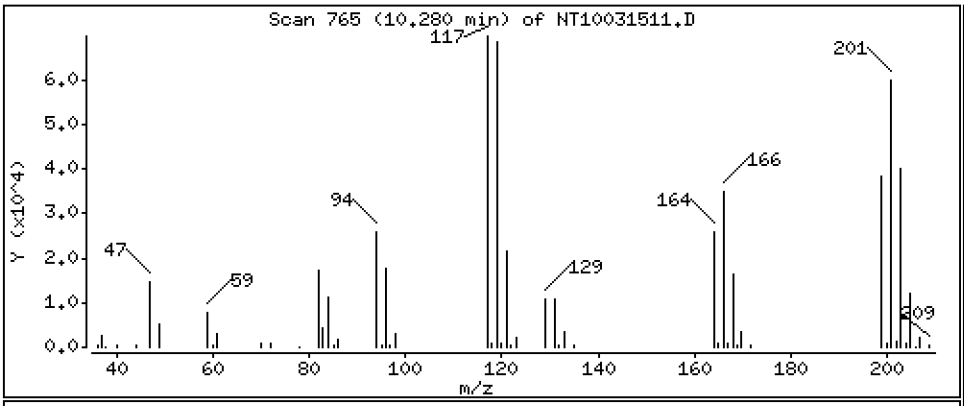
Operator: VTS

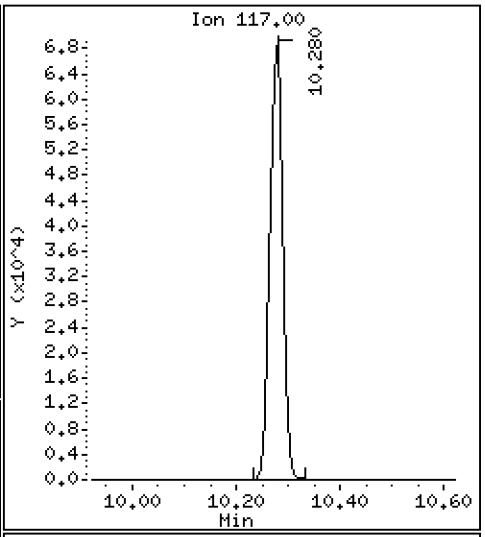
Column phase: ZB-5msi

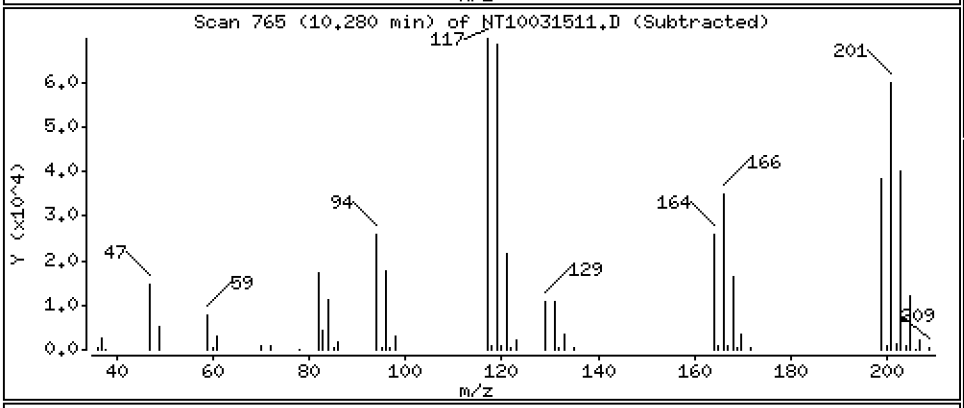
Column diameter: 0.25

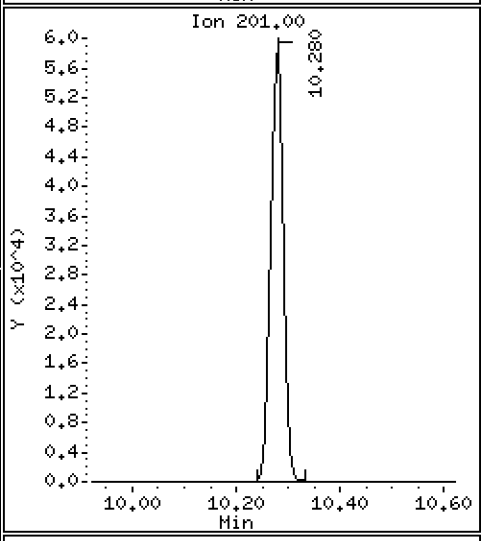
17 Hexachloroethane

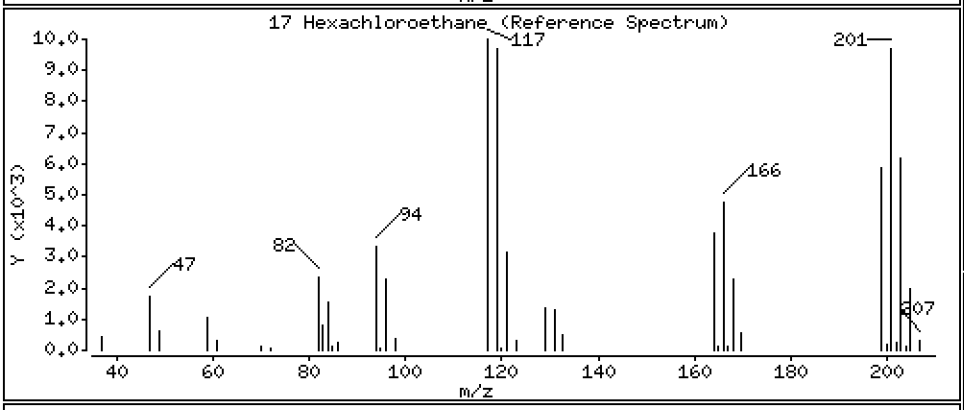
Concentration: 5.003 ug/mL

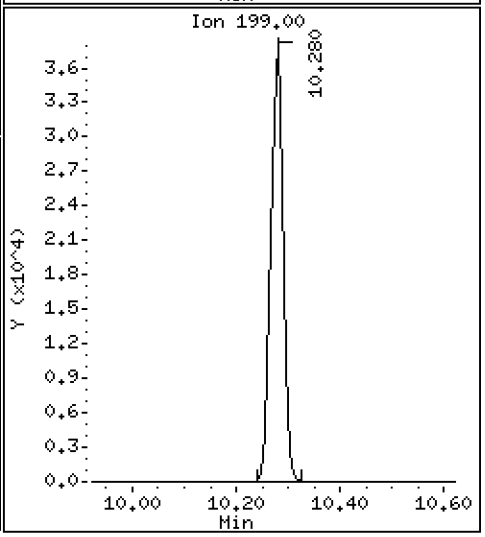


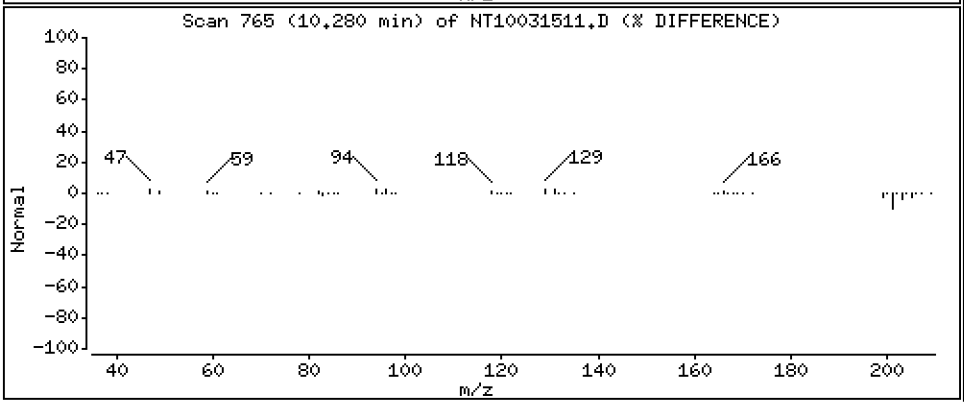












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

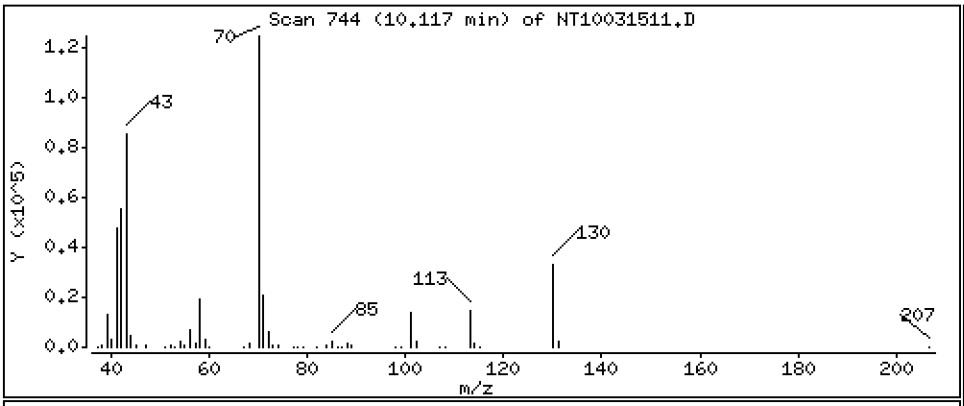
Operator: VTS

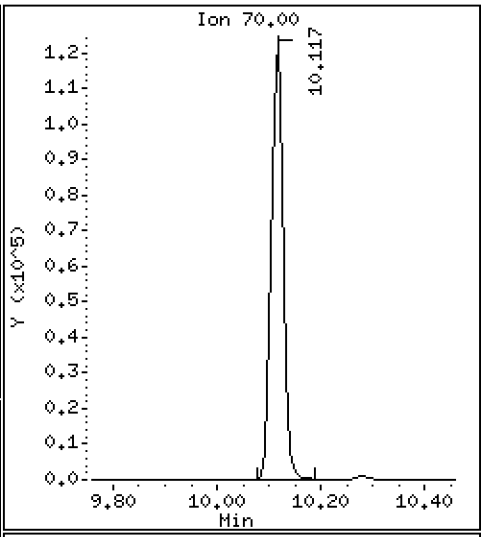
Column phase: ZB-5msi

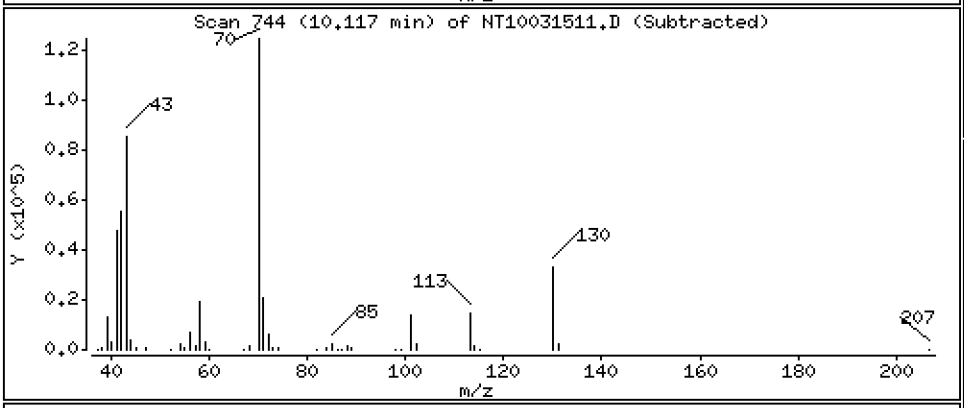
Column diameter: 0.25

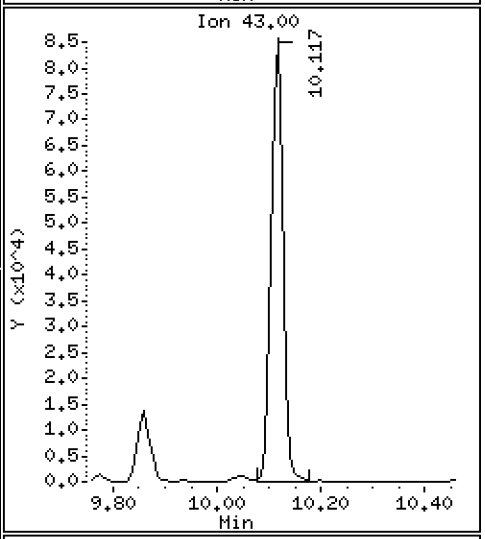
16 N-Nitroso-di-n-propylamine

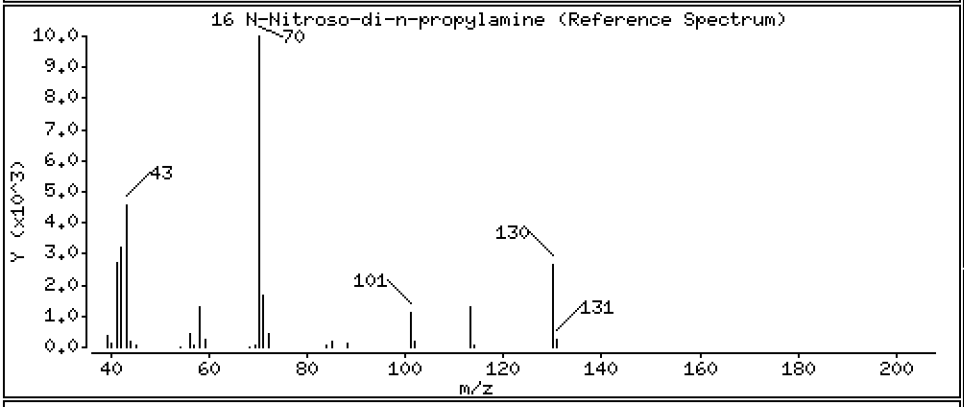
Concentration: 5.179 ug/mL

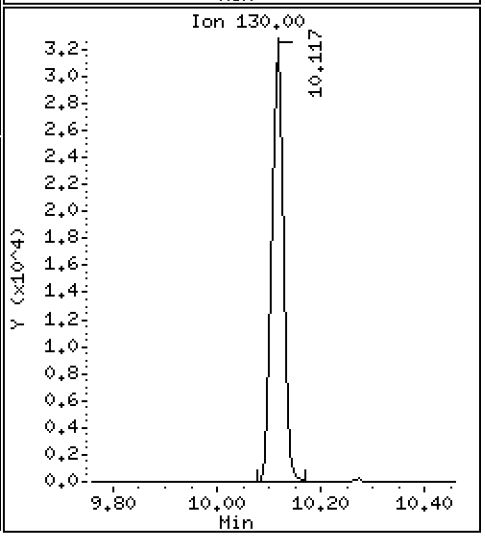


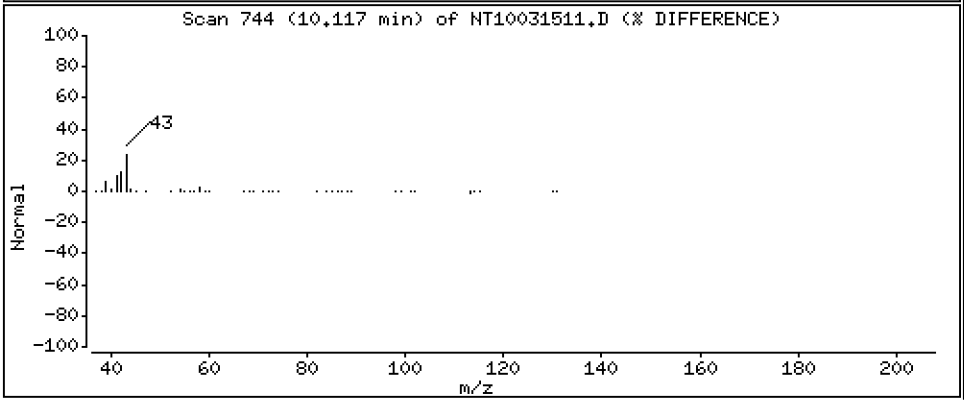












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

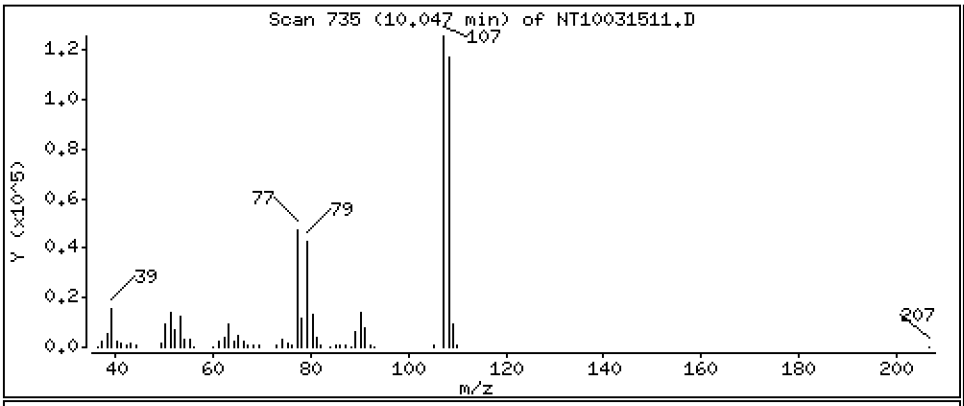
Operator: VTS

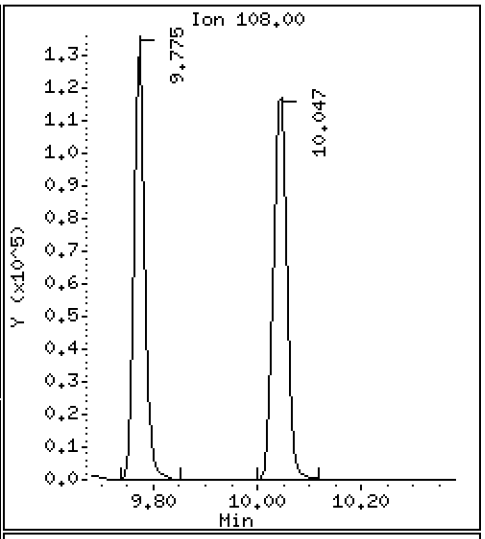
Column phase: ZB-5msi

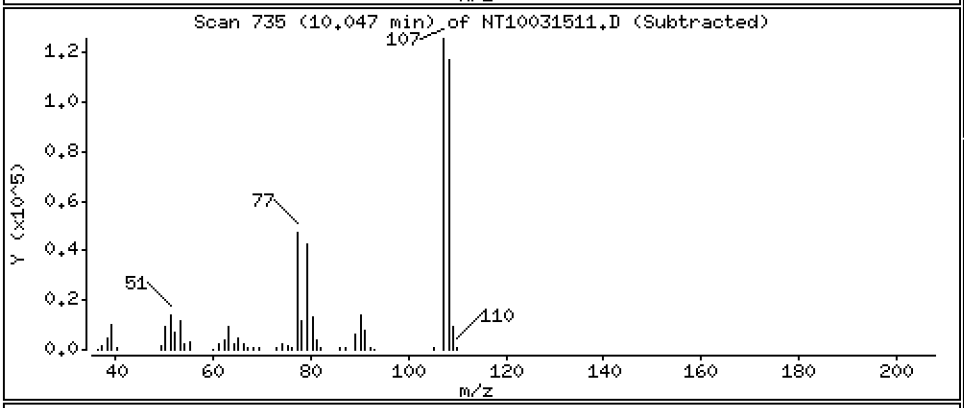
Column diameter: 0.25

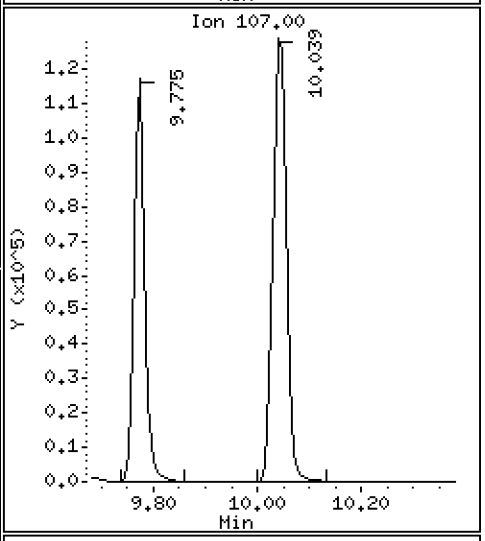
15 4-Methylphenol

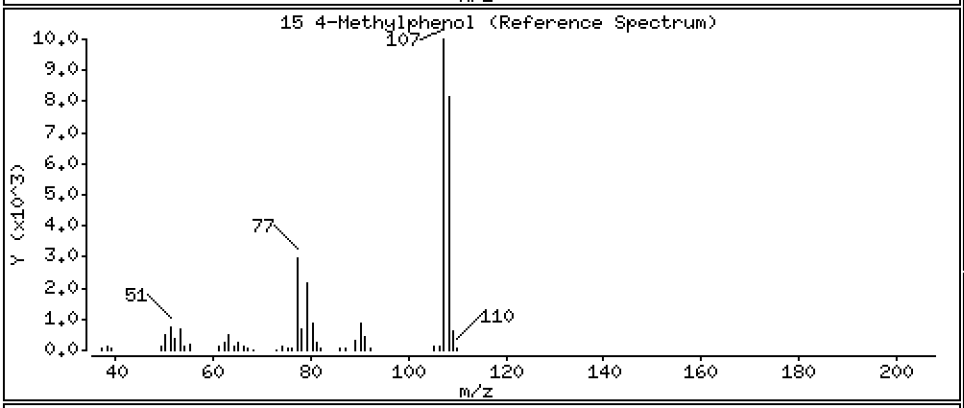
Concentration: 4.365 ug/mL

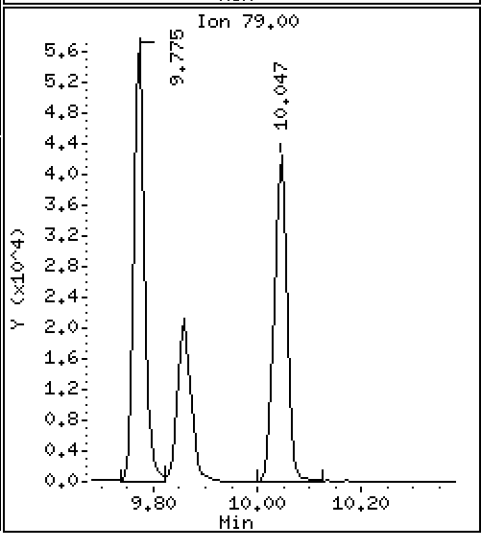


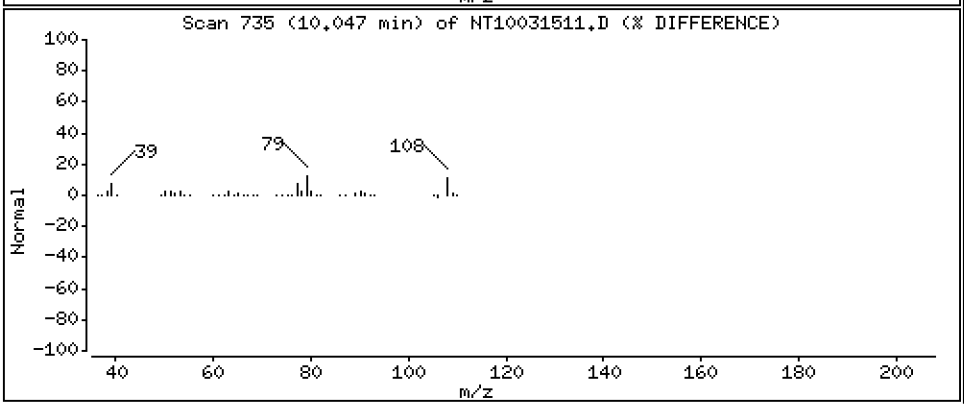












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

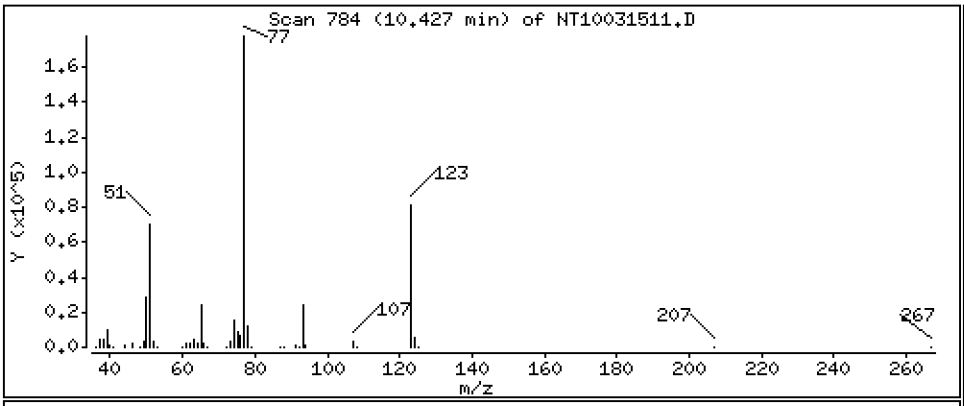
Operator: VTS

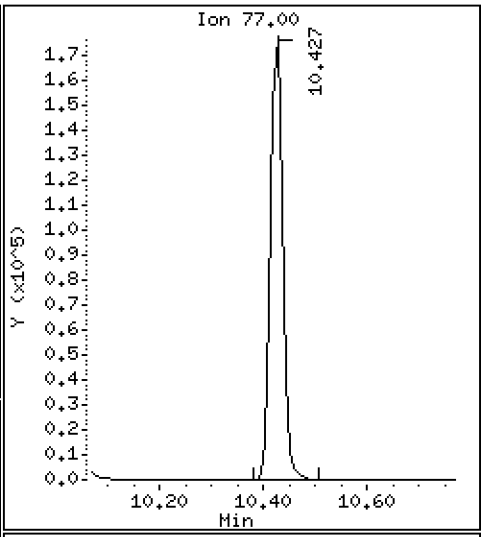
Column phase: ZB-5msi

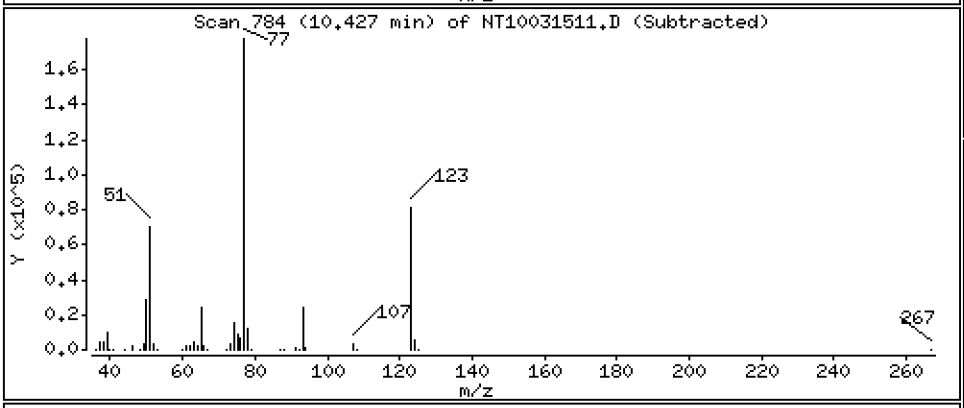
Column diameter: 0.25

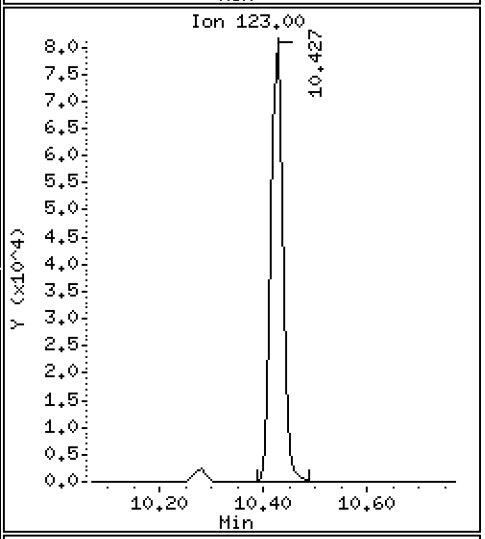
19 Nitrobenzene

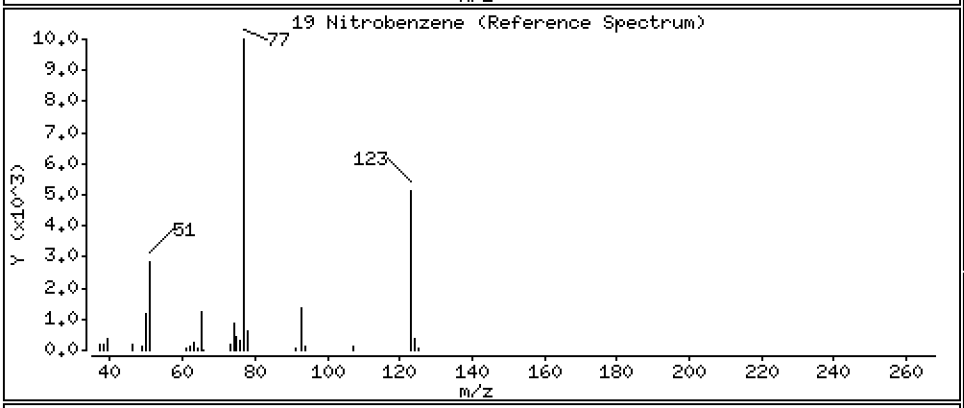
Concentration: 4.858 ug/mL

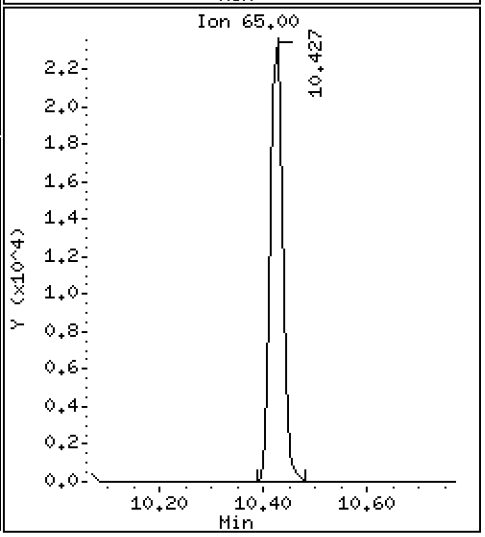


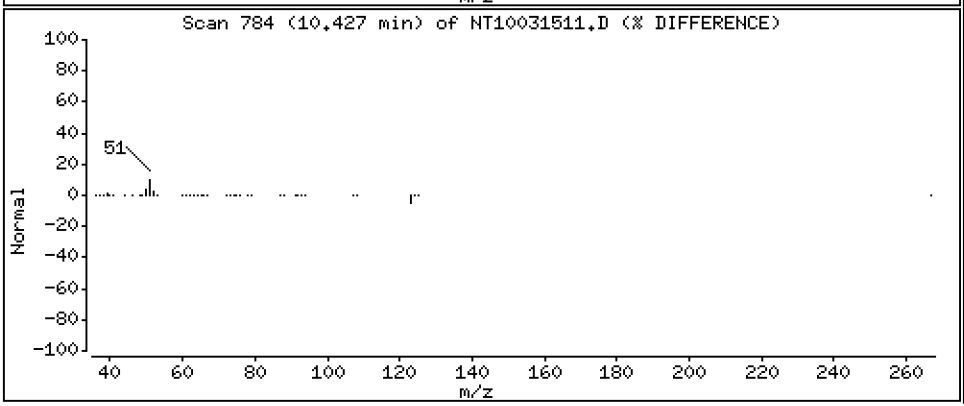












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

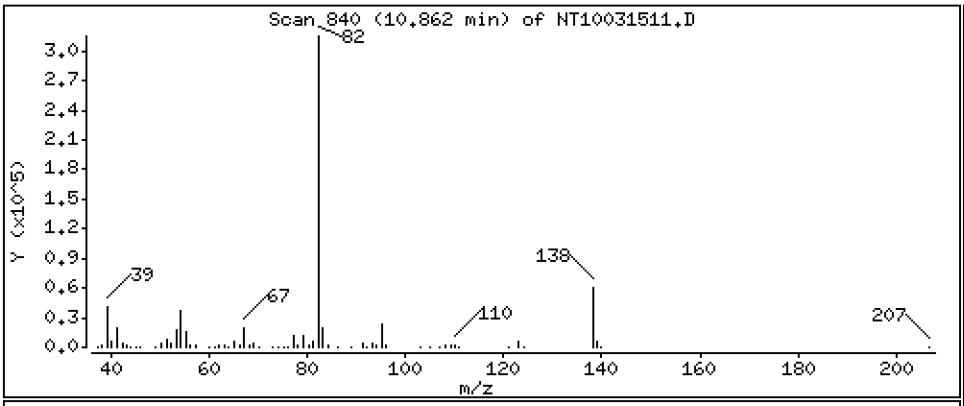
Operator: VTS

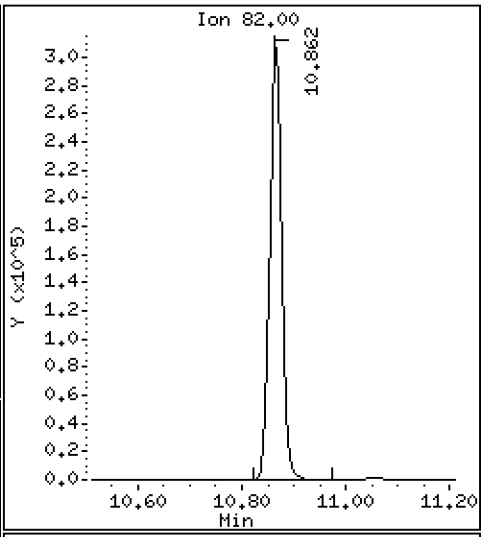
Column phase: ZB-5msi

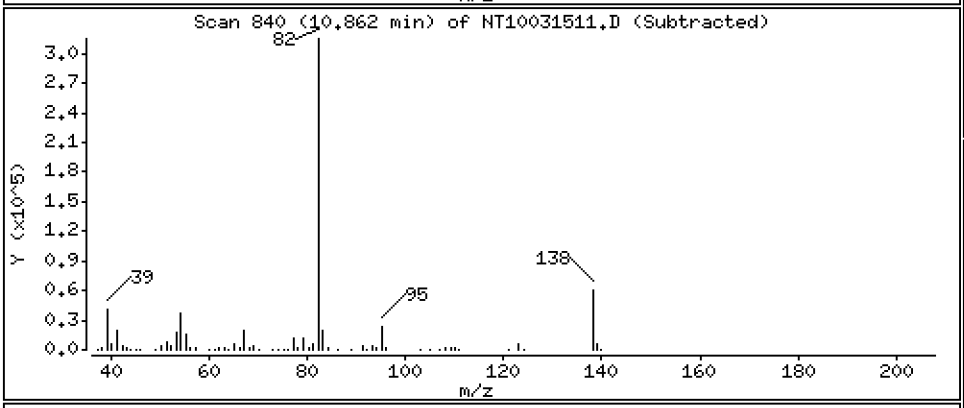
Column diameter: 0.25

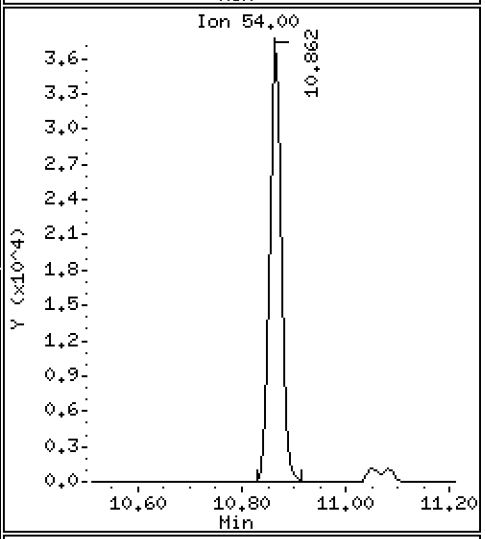
20 Isophorone

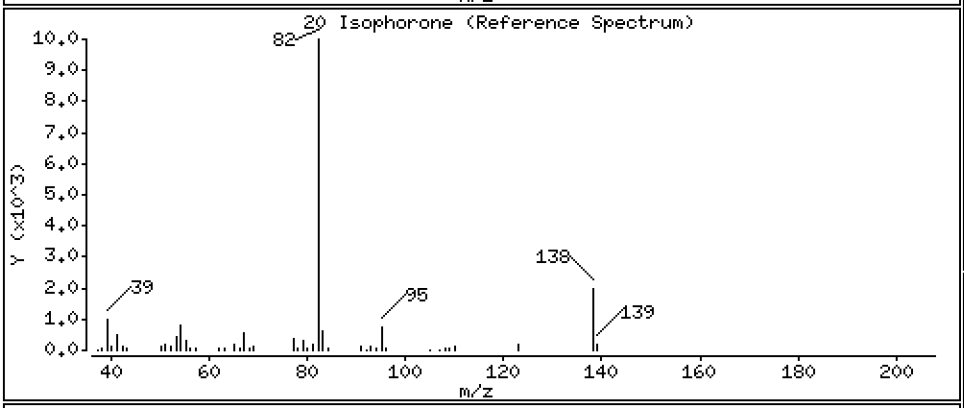
Concentration: 7.696 ug/mL

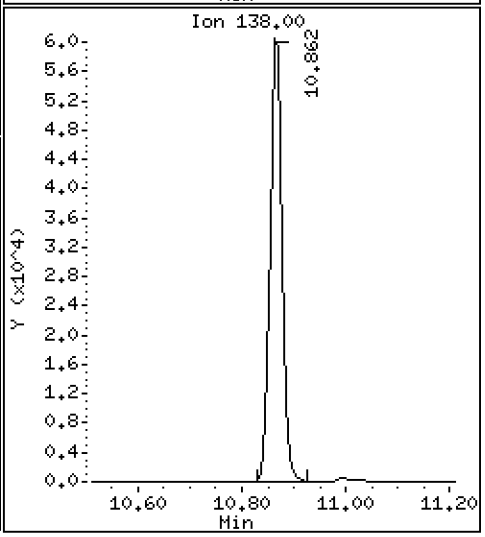


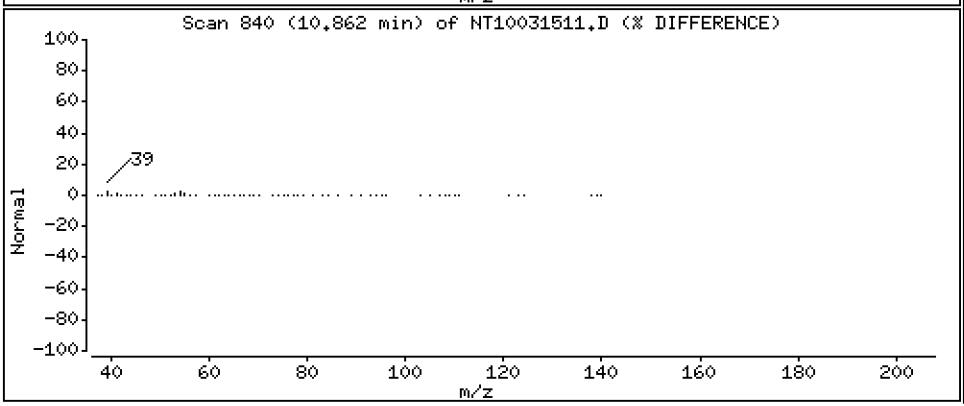












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

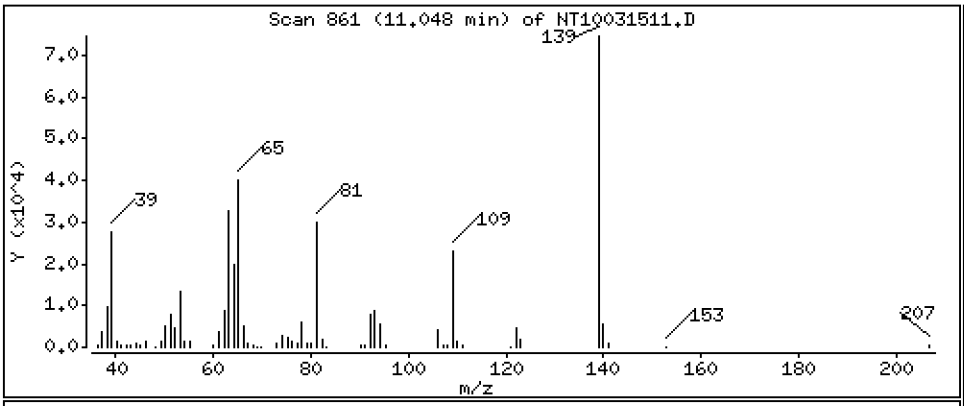
Operator: VTS

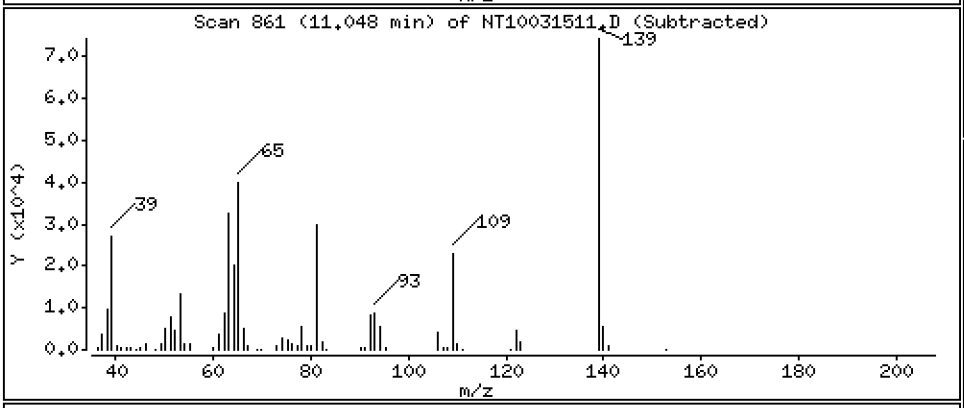
Column phase: ZB-5msi

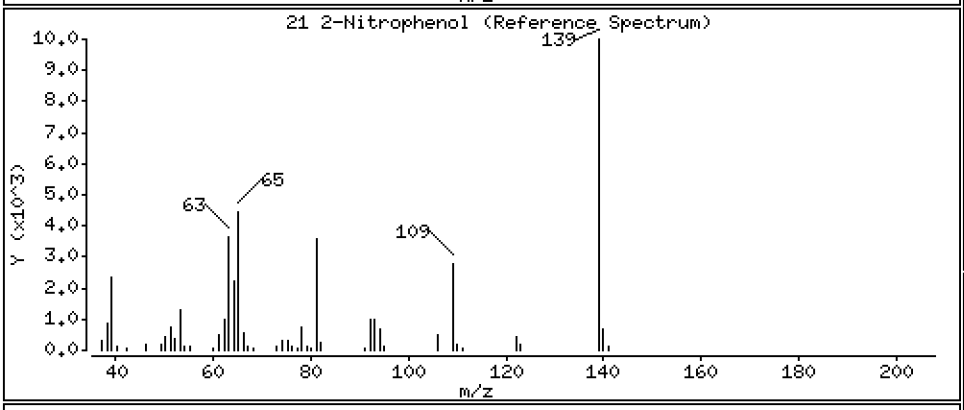
Column diameter: 0.25

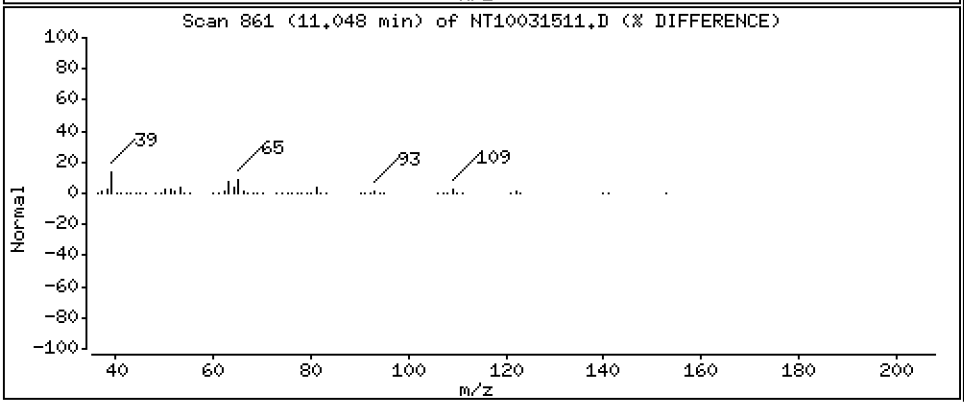
21 2-Nitrophenol

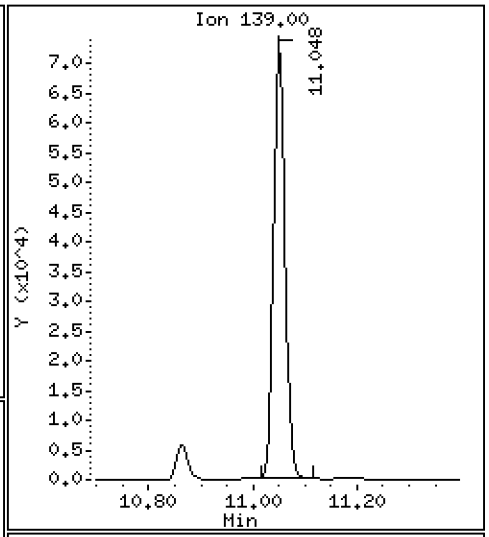
Concentration: 3.995 ug/mL

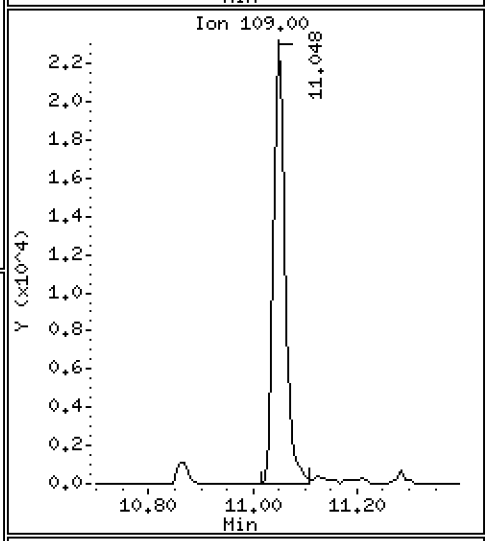


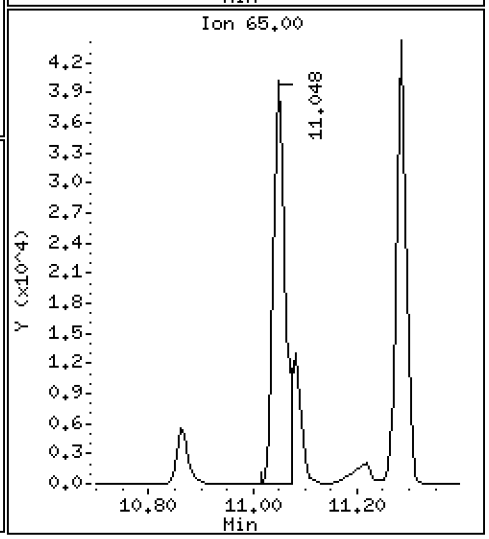












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

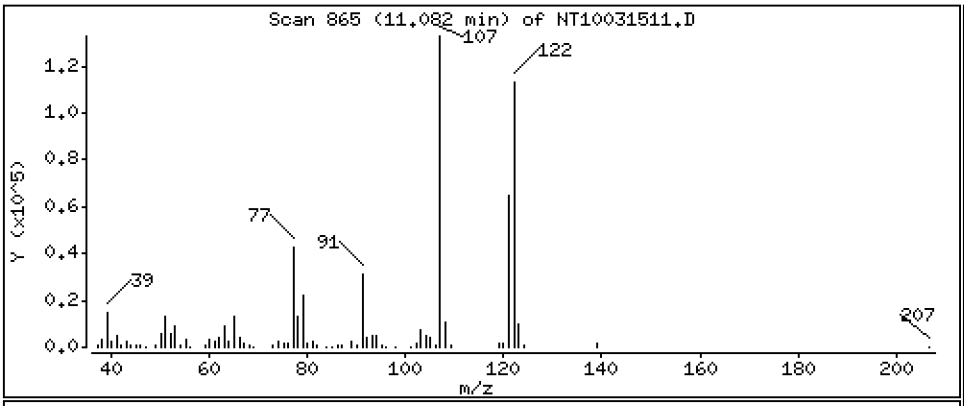
Operator: VTS

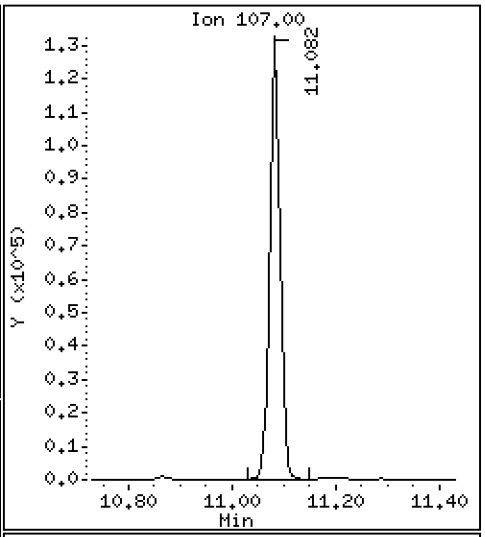
Column phase: ZB-5msi

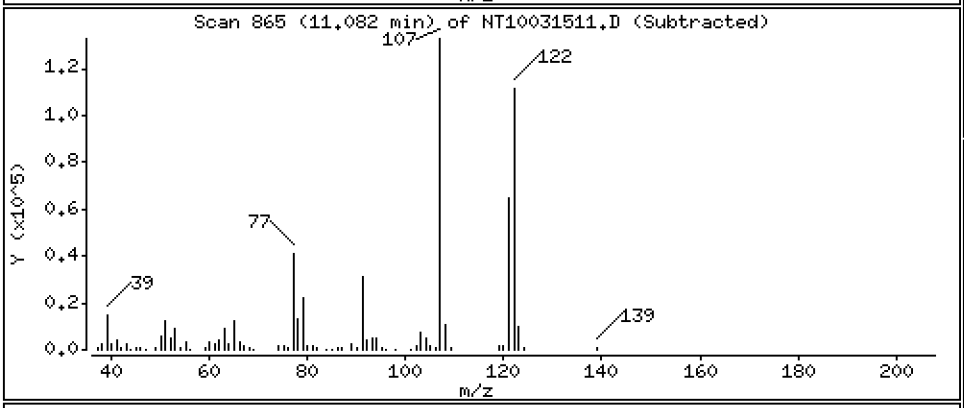
Column diameter: 0.25

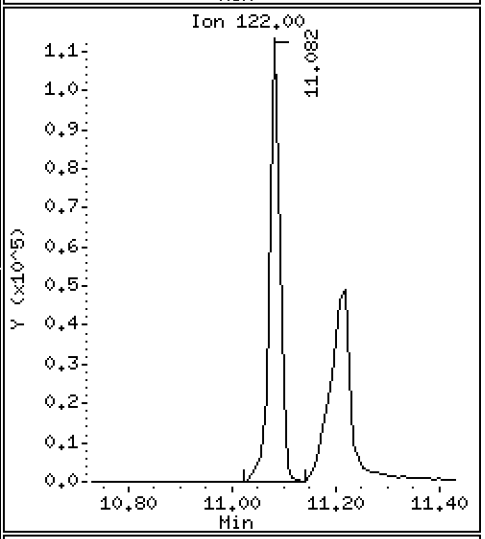
22 2,4-Dimethylphenol

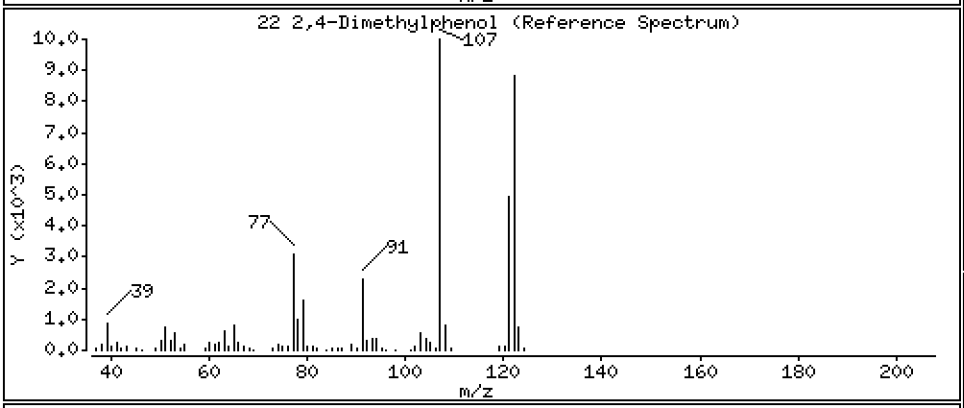
Concentration: 3.632 ug/mL

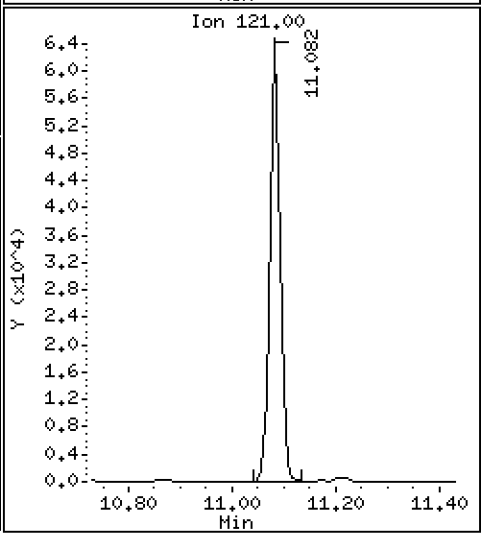


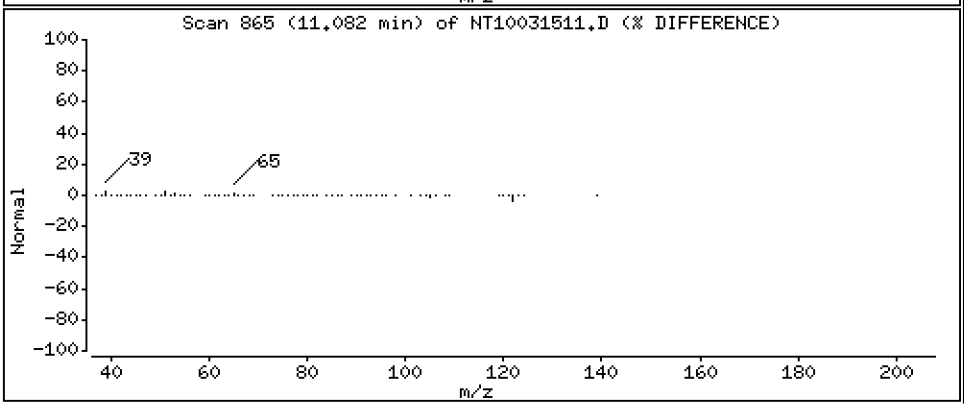












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

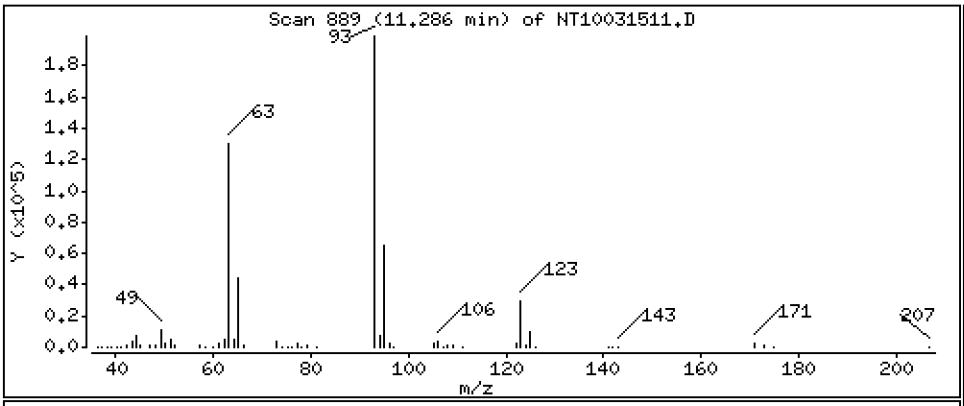
Operator: VTS

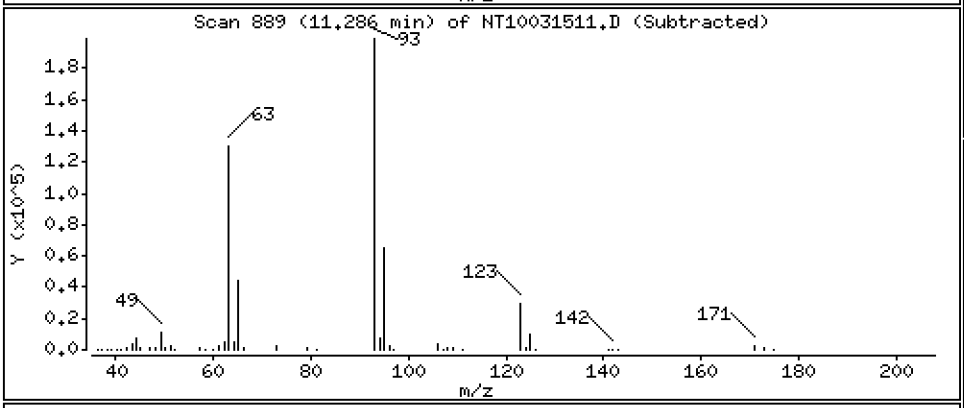
Column phase: ZB-5msi

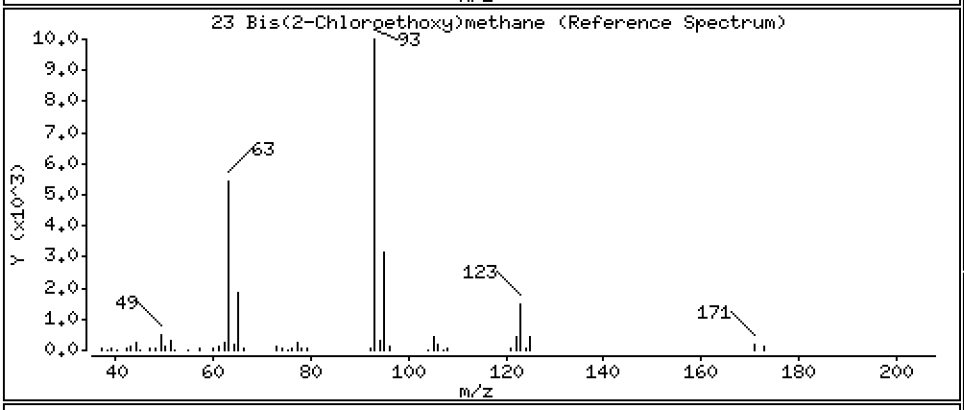
Column diameter: 0.25

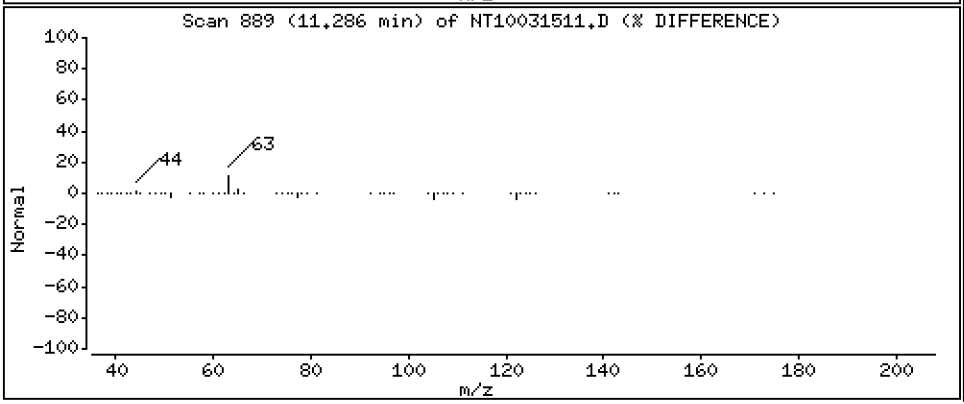
23 Bis(2-Chloroethoxy)methane

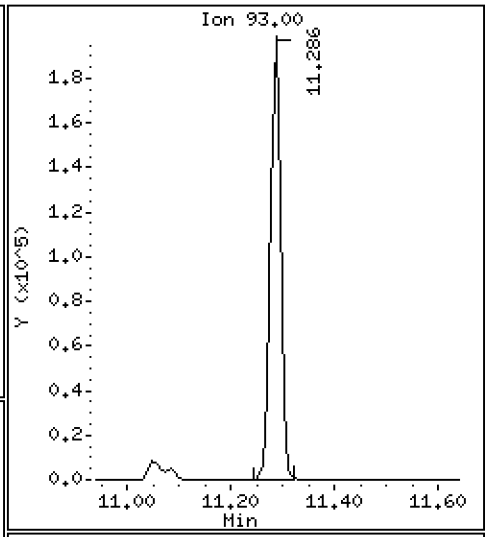
Concentration: 5.654 ug/mL

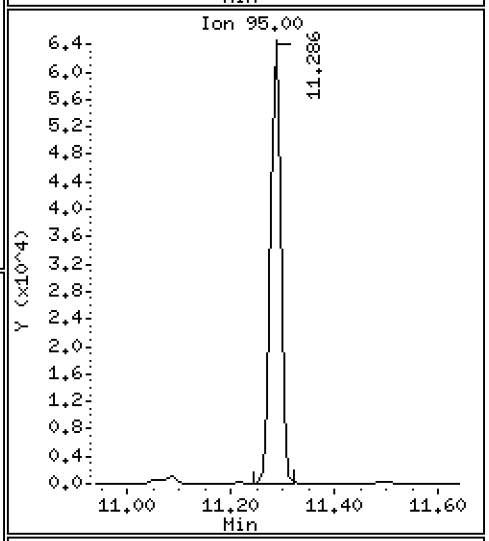


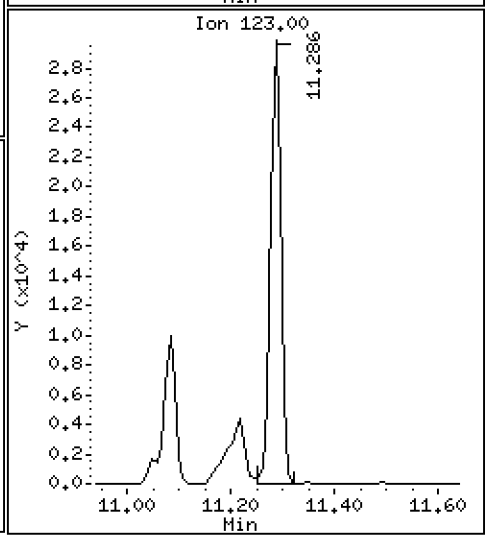












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

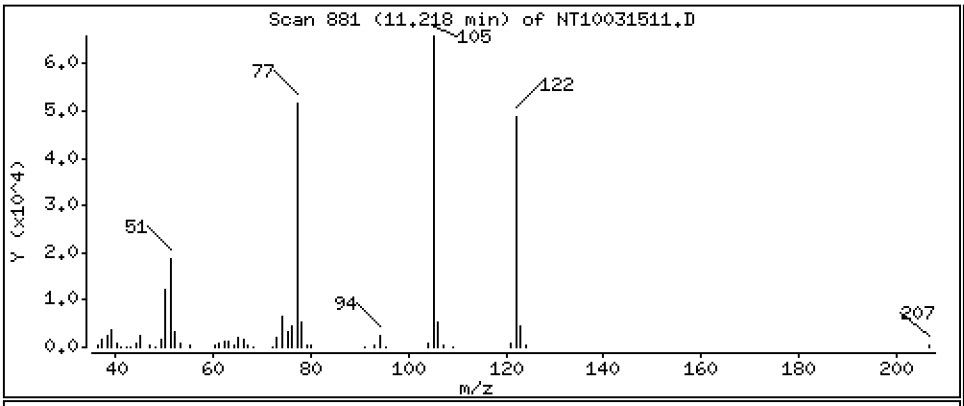
Operator: VTS

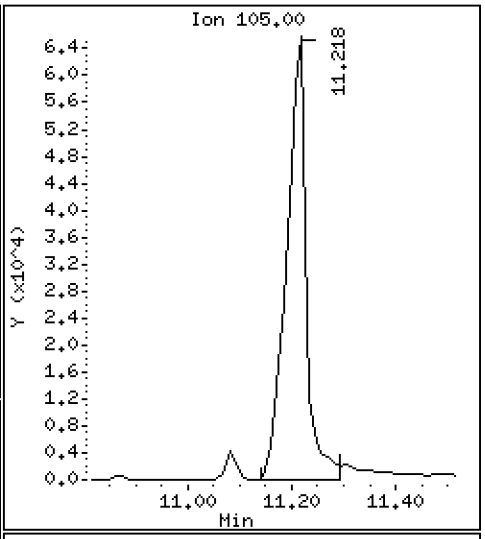
Column phase: ZB-5msi

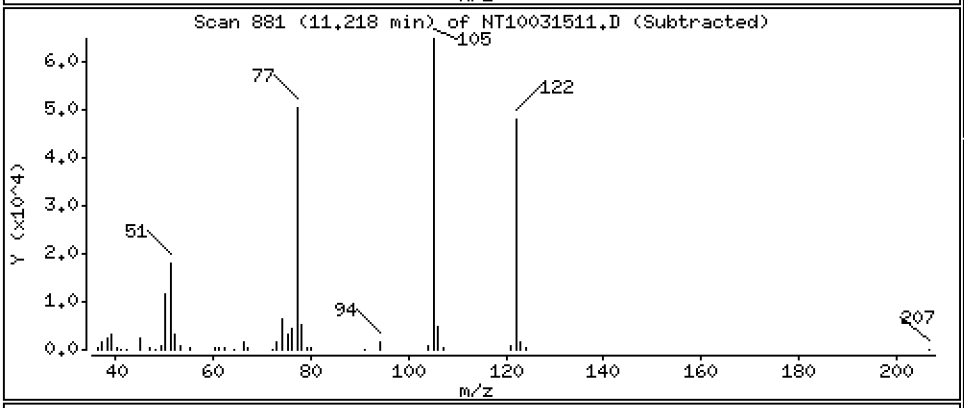
Column diameter: 0.25

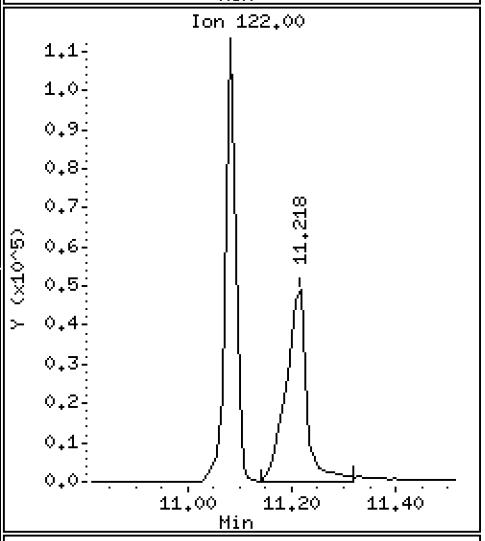
24 Benzoic acid

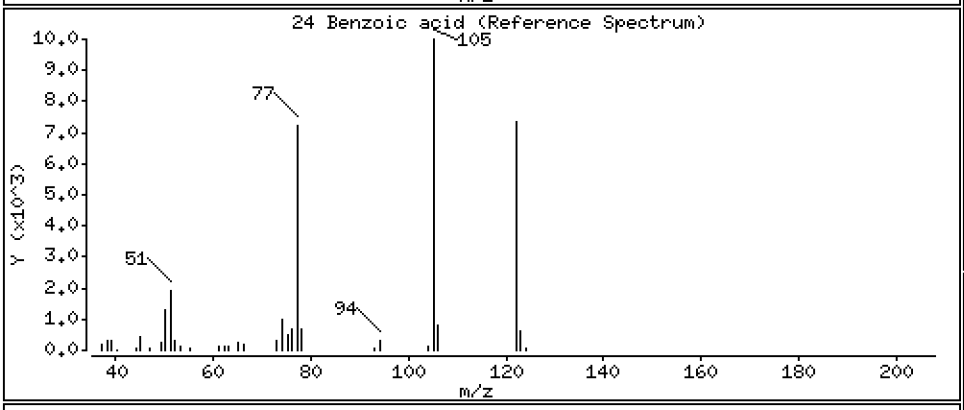
Concentration: 5.952 ug/mL

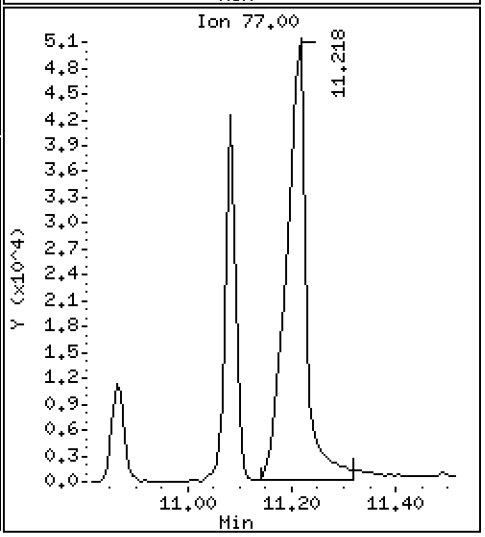


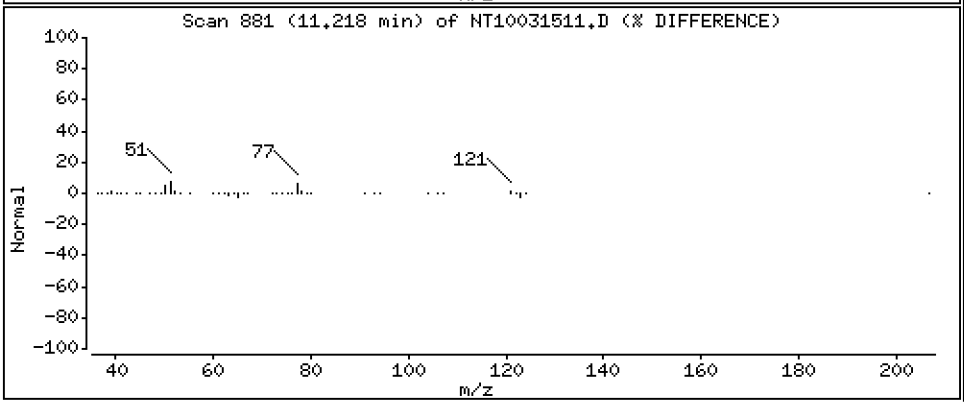












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

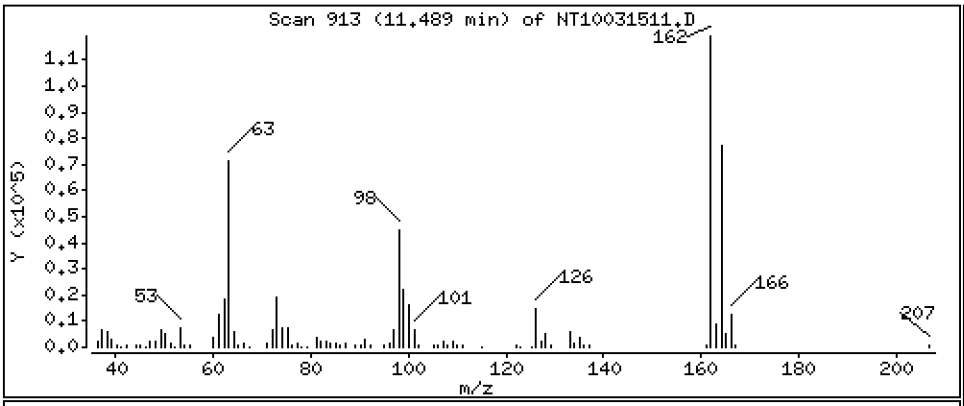
Operator: VTS

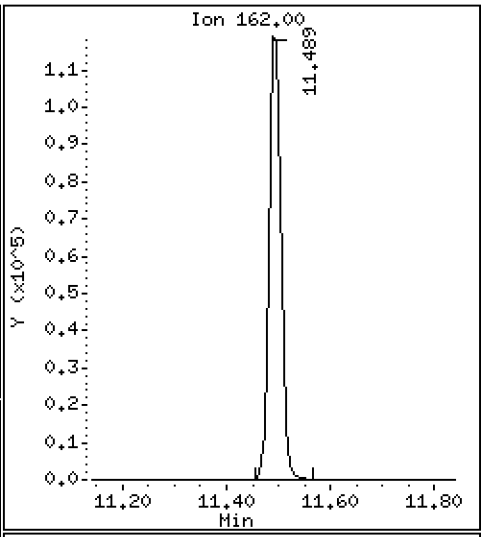
Column phase: ZB-5msi

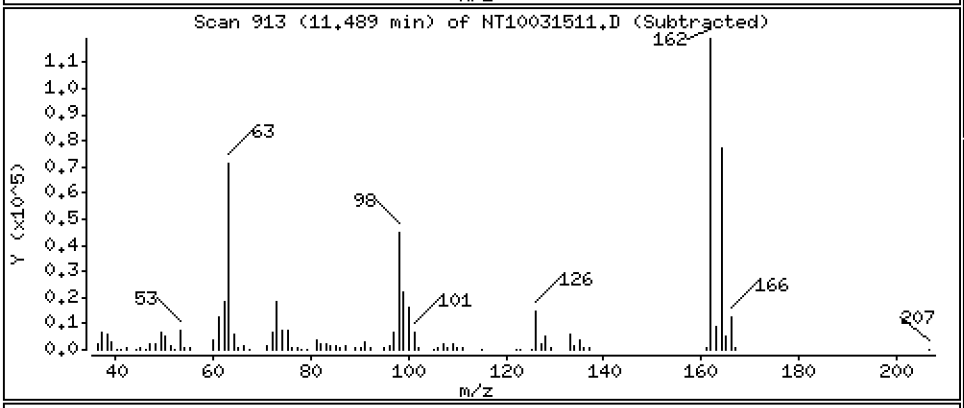
Column diameter: 0.25

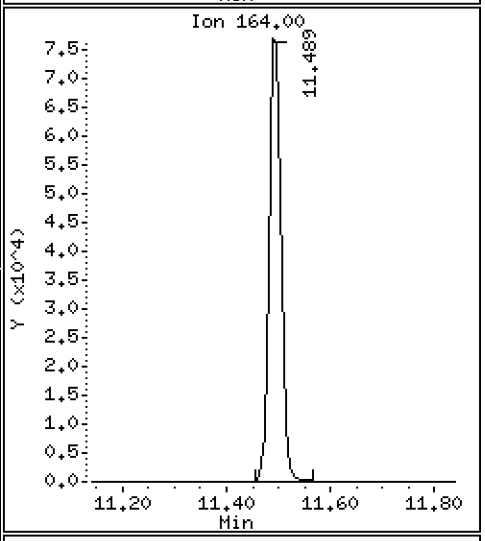
25 2,4-Dichlorophenol

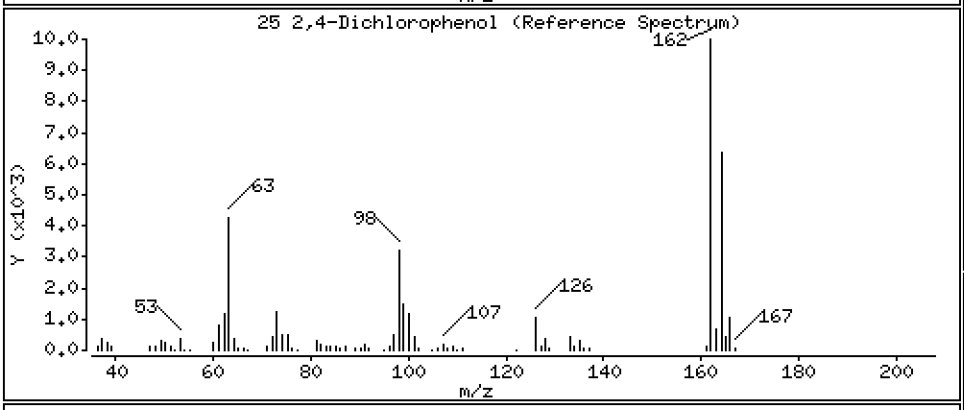
Concentration: 4.703 ug/mL

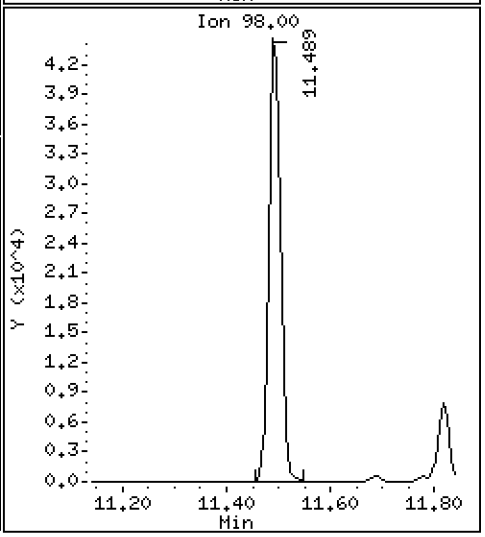


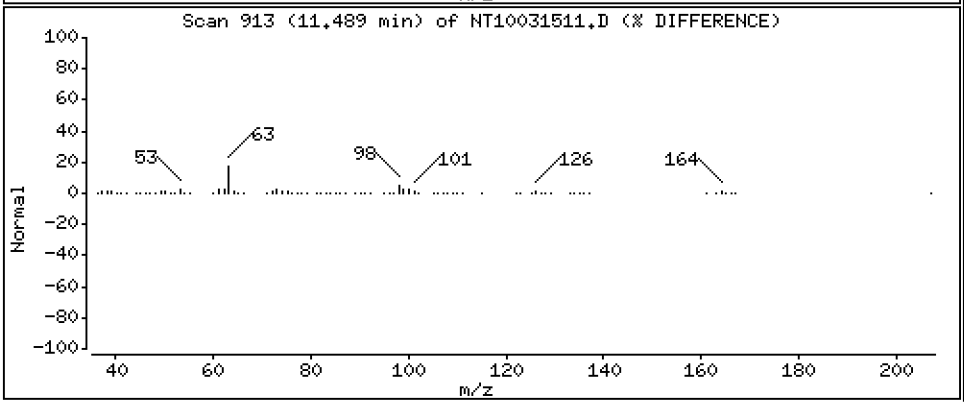












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

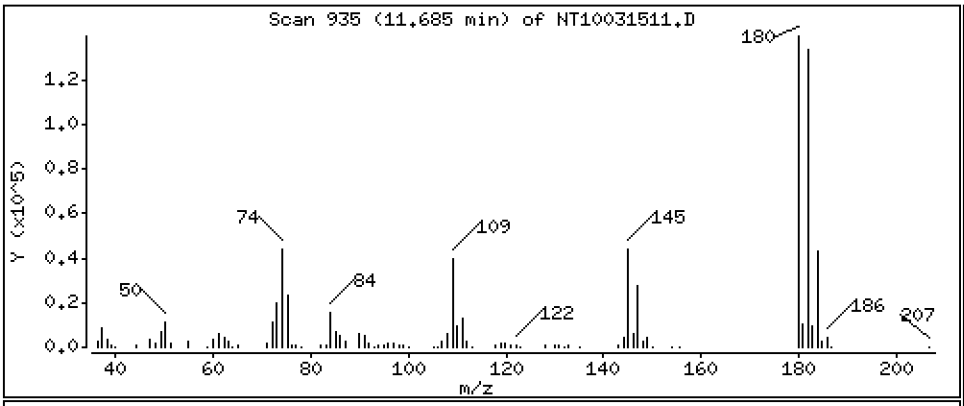
Operator: VTS

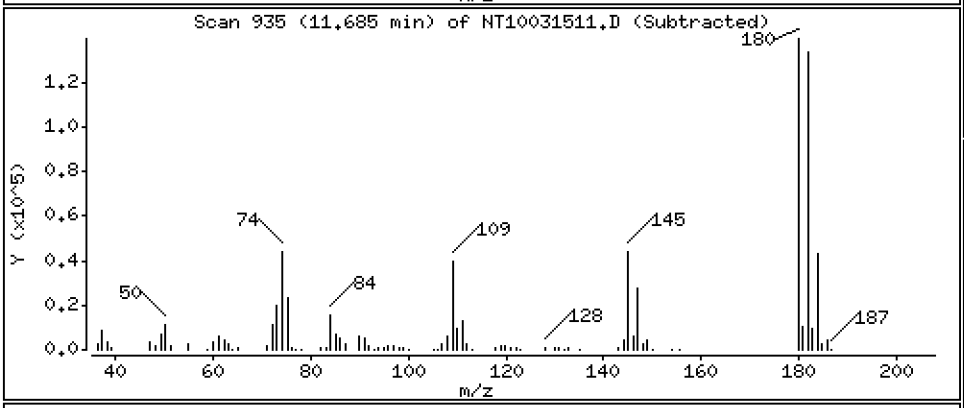
Column phase: ZB-5msi

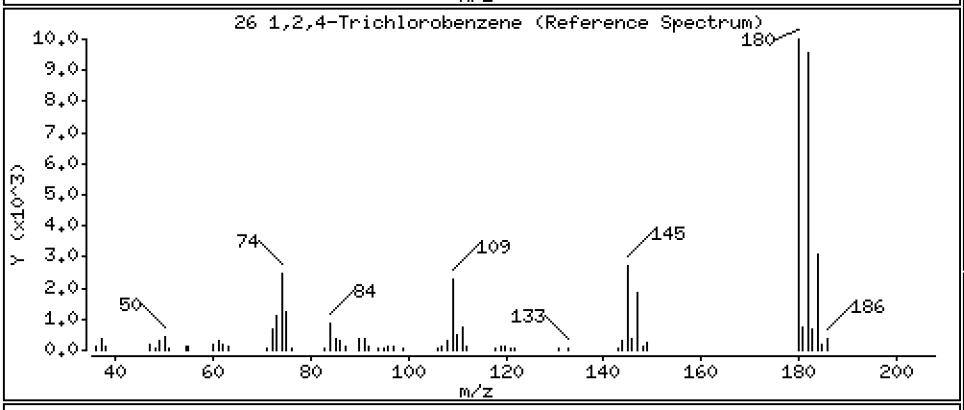
Column diameter: 0.25

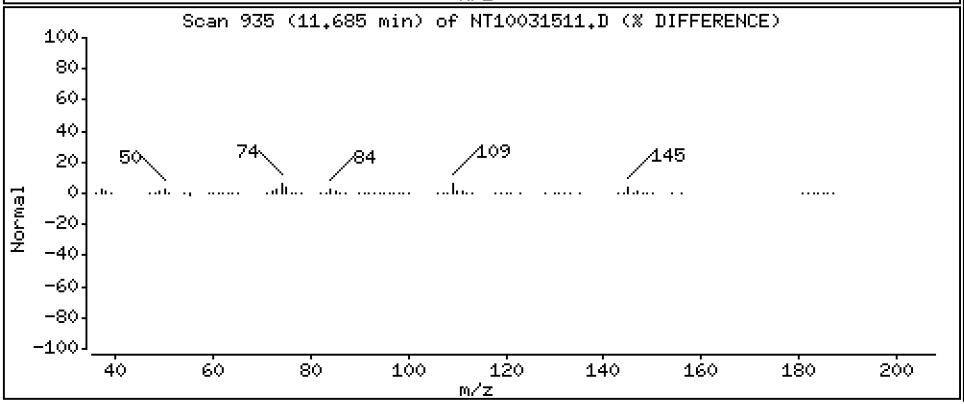
26 1,2,4-Trichlorobenzene

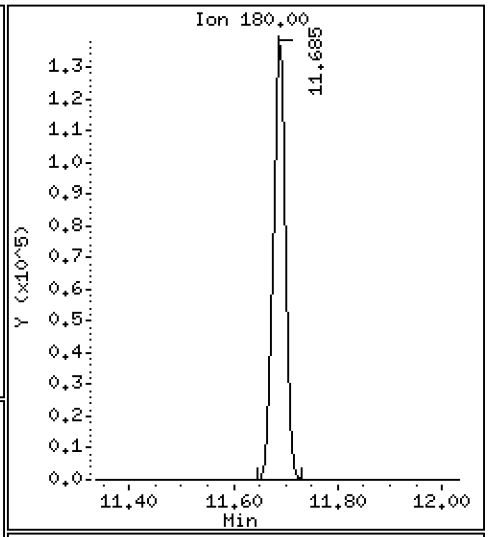
Concentration: 4.554 ug/mL

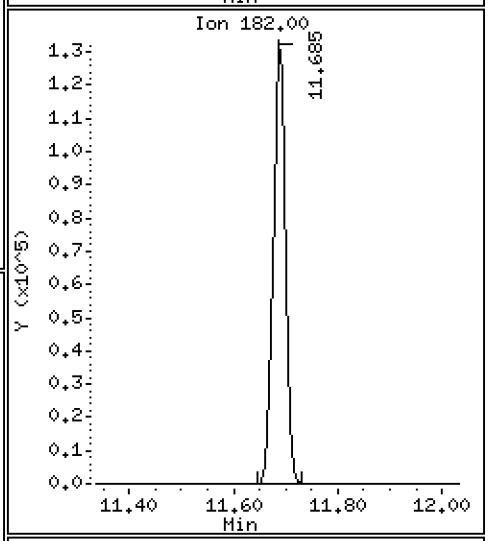


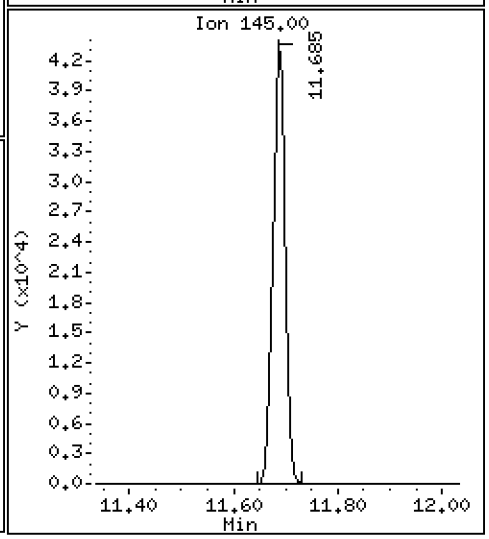












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

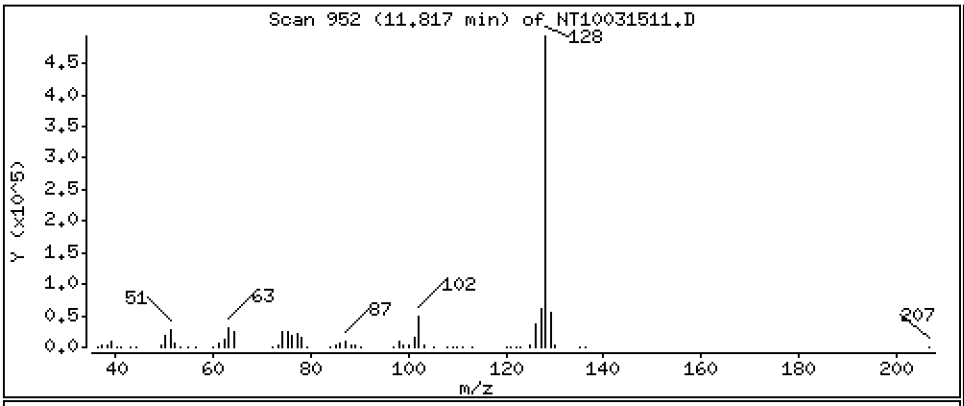
Operator: VTS

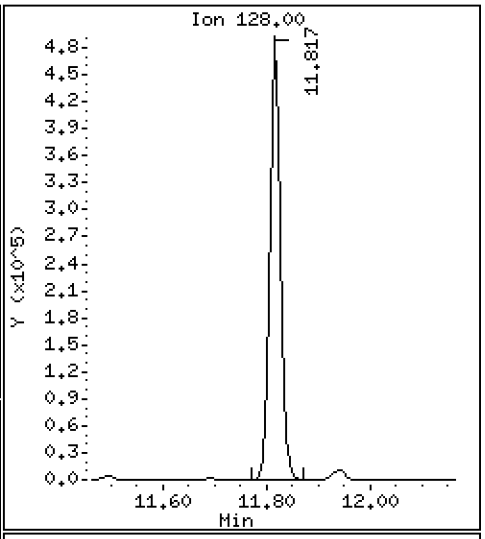
Column phase: ZB-5msi

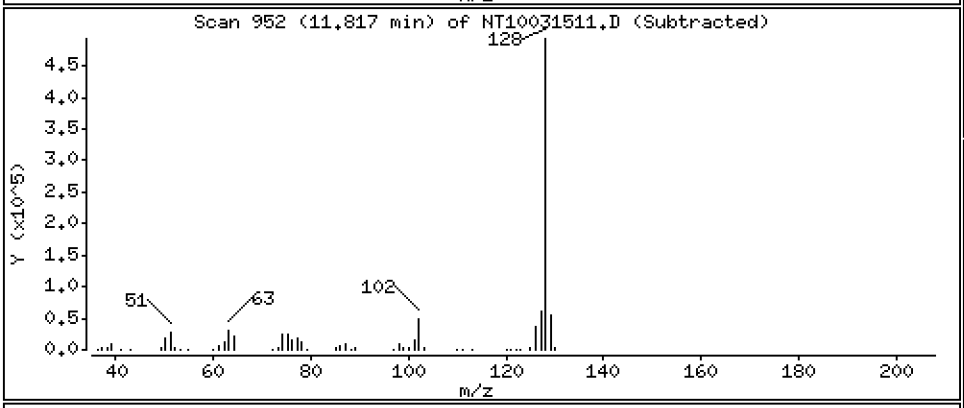
Column diameter: 0.25

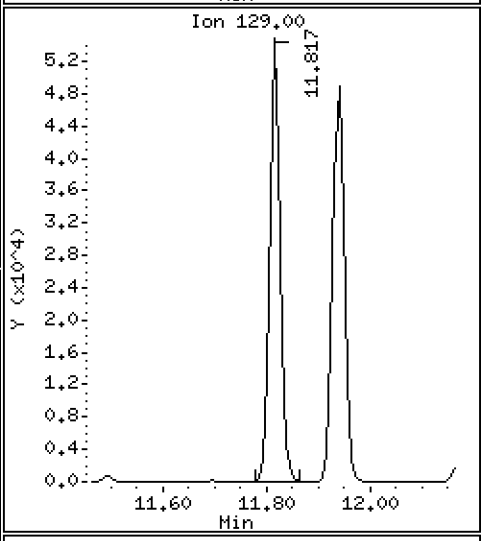
28 Naphthalene

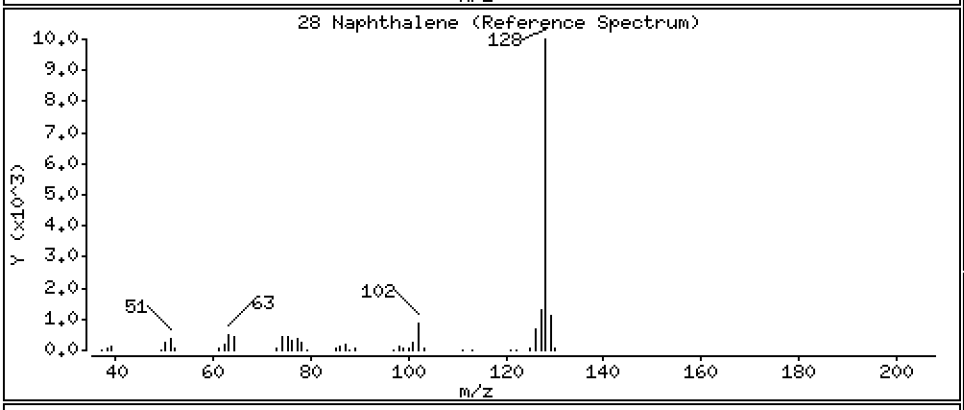
Concentration: 4.717 ug/mL

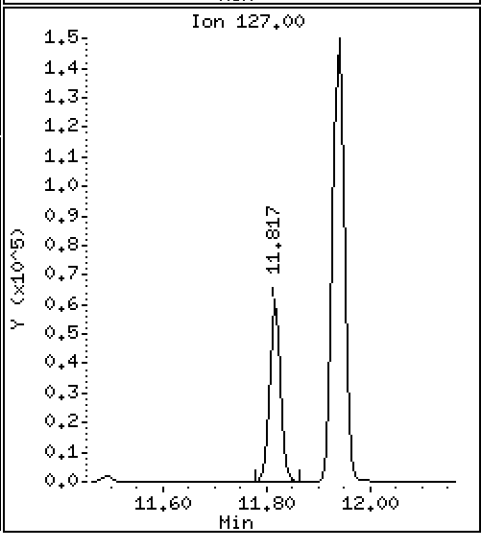


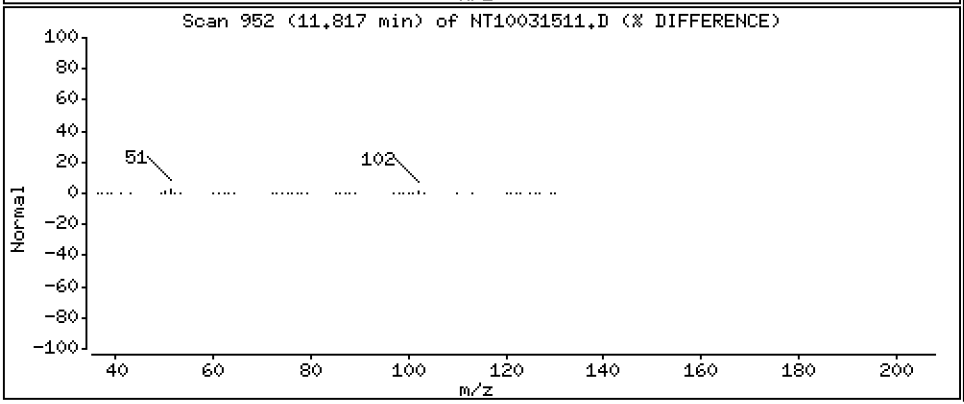












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

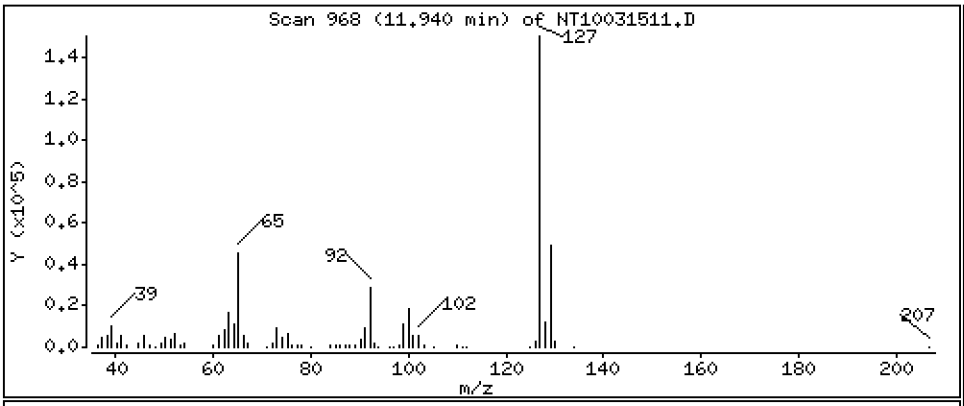
Operator: VTS

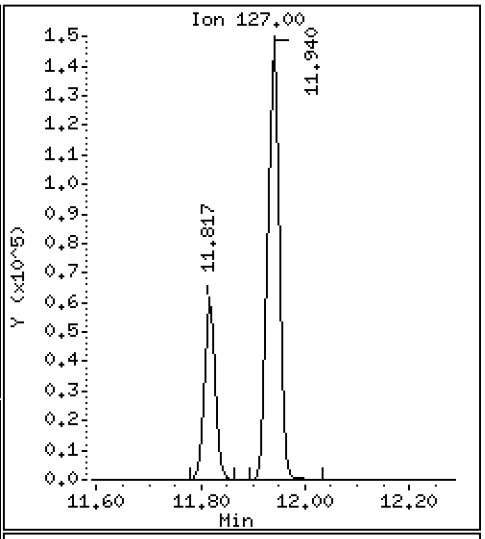
Column phase: ZB-5msi

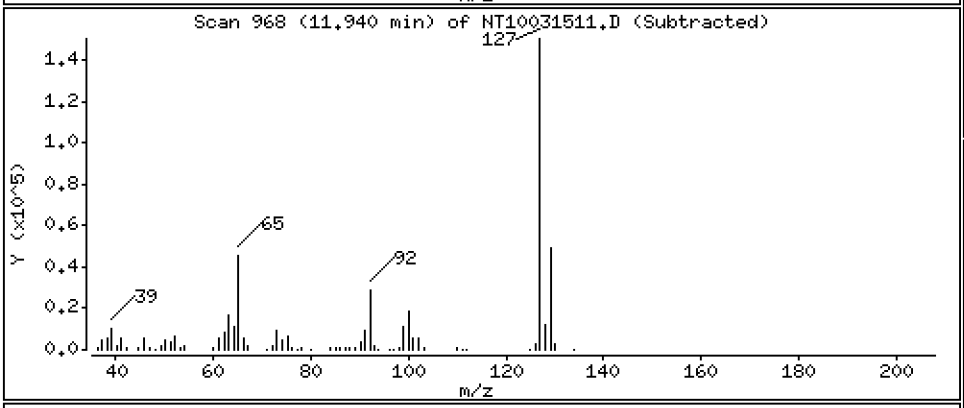
Column diameter: 0.25

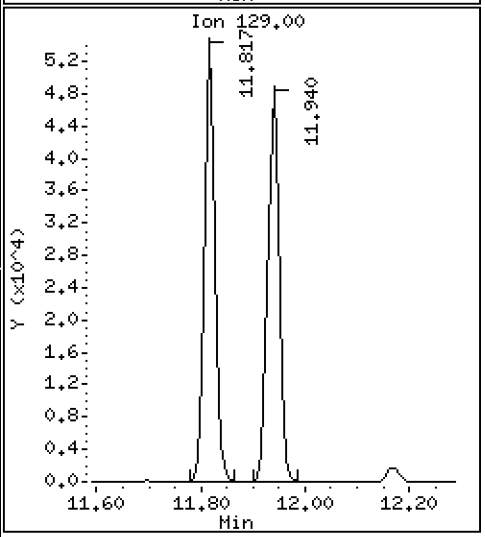
29 4-Chloroaniline

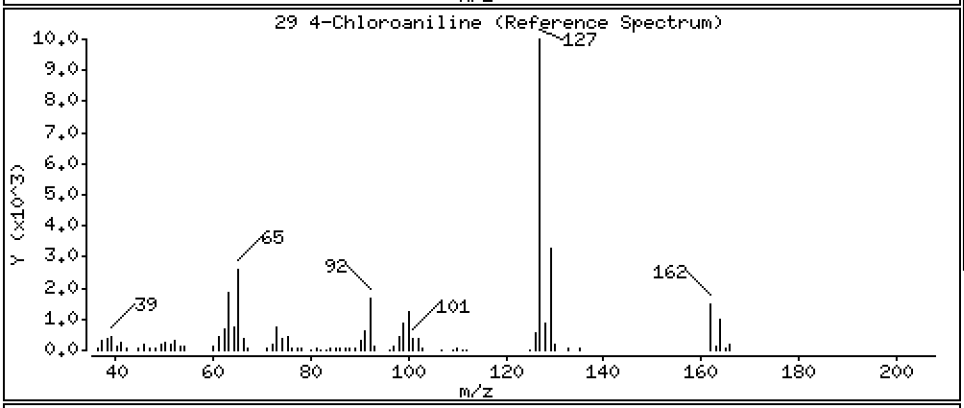
Concentration: 3.787 ug/mL

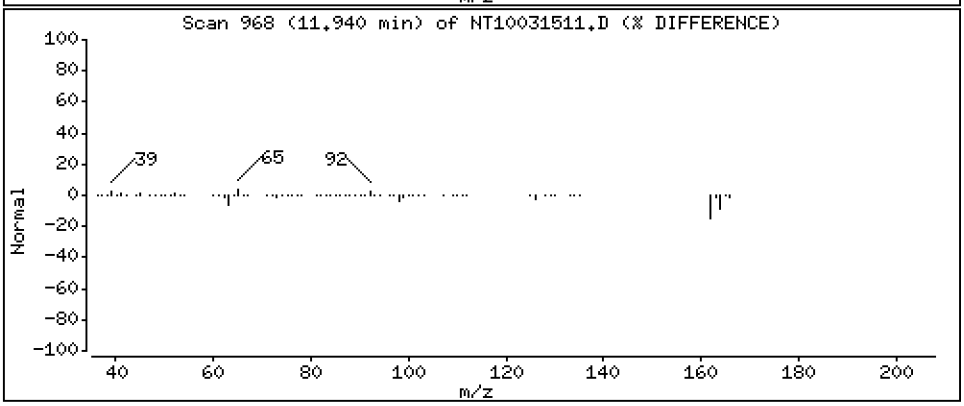












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

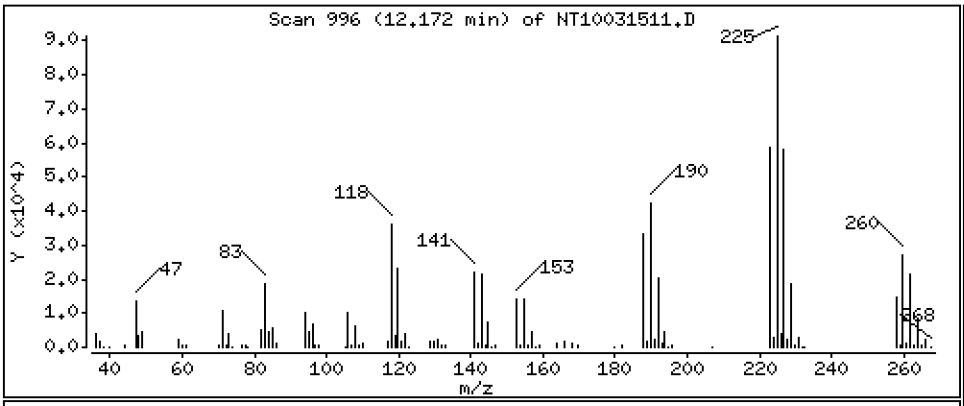
Operator: VTS

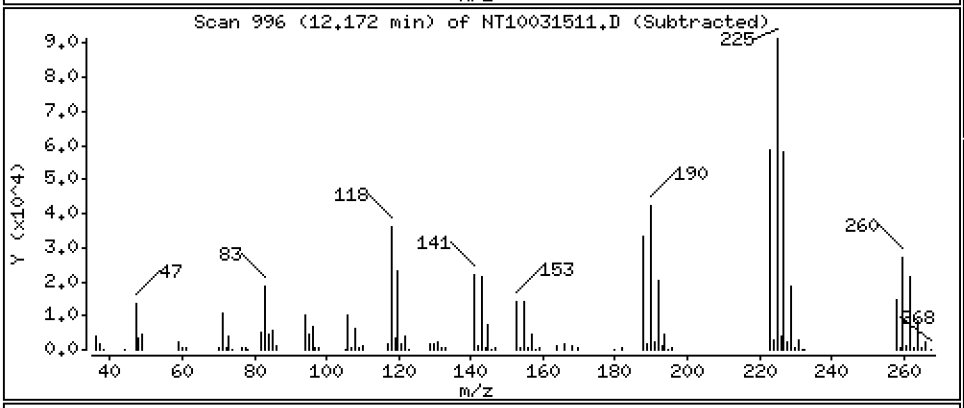
Column phase: ZB-5msi

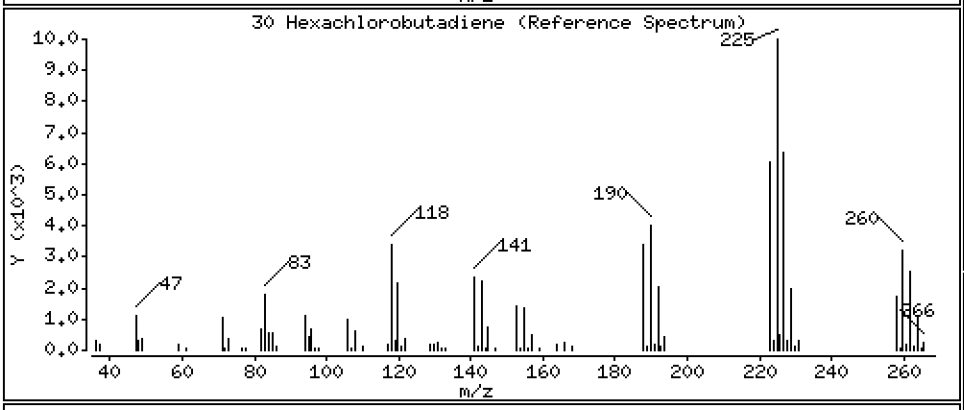
Column diameter: 0.25

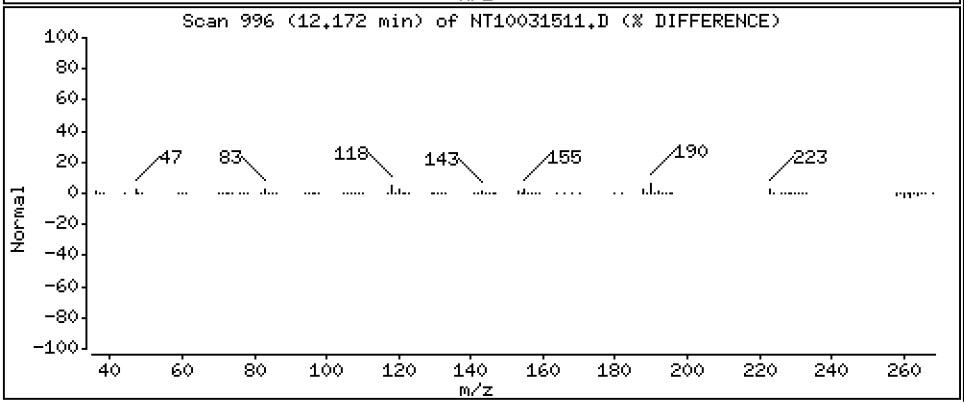
30 Hexachlorobutadiene

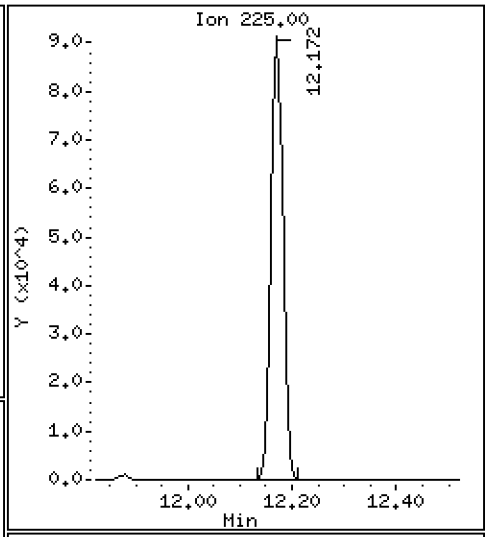
Concentration: 4.834 ug/mL

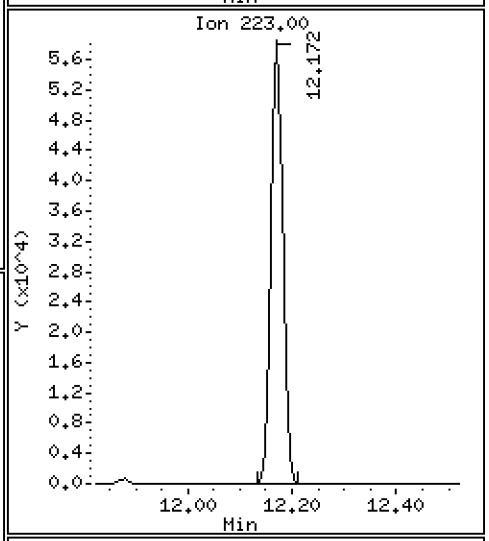


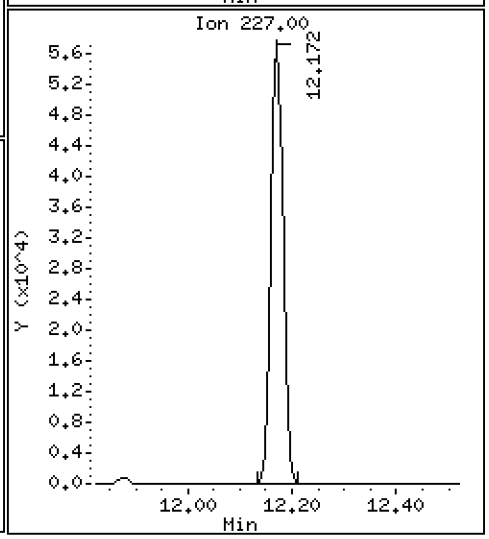












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

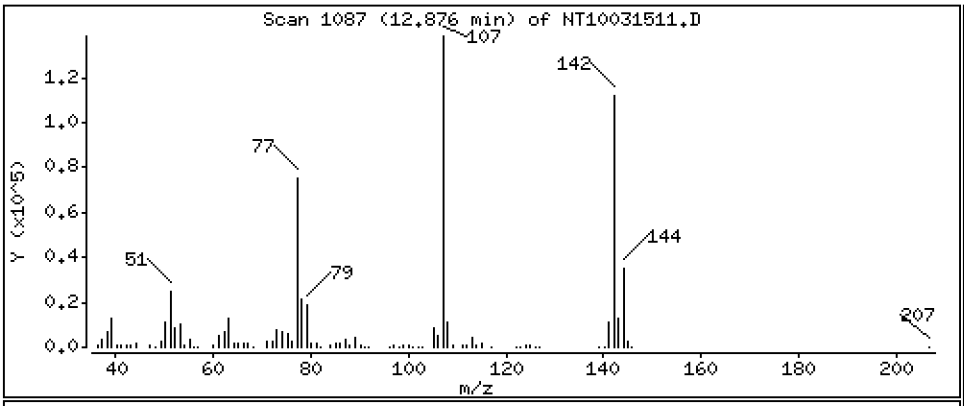
Operator: VTS

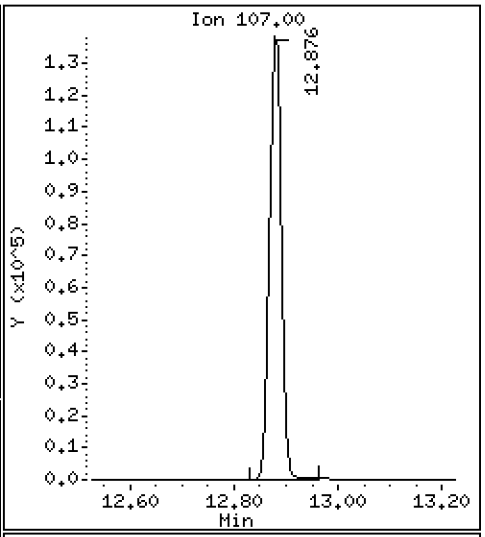
Column phase: ZB-5msi

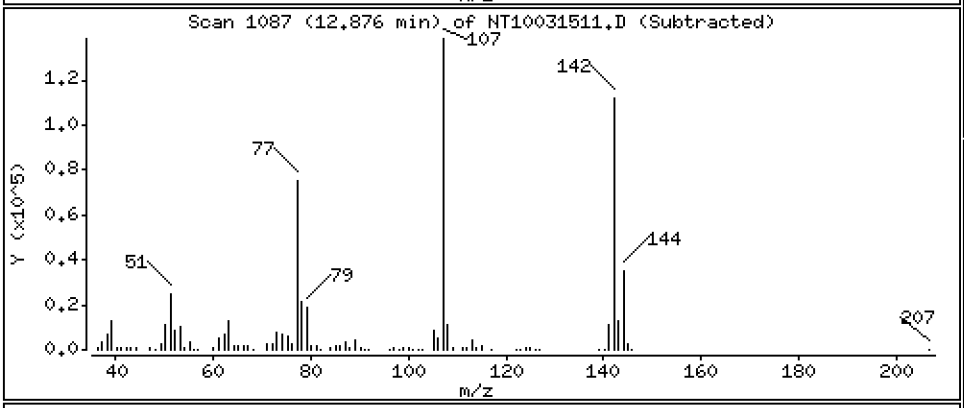
Column diameter: 0.25

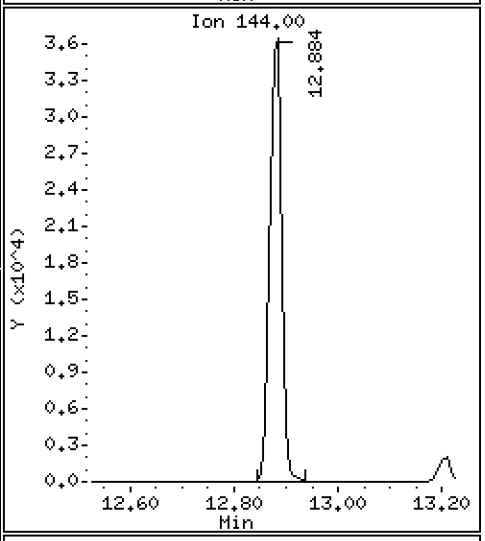
31 4-Chloro-3-methylphenol

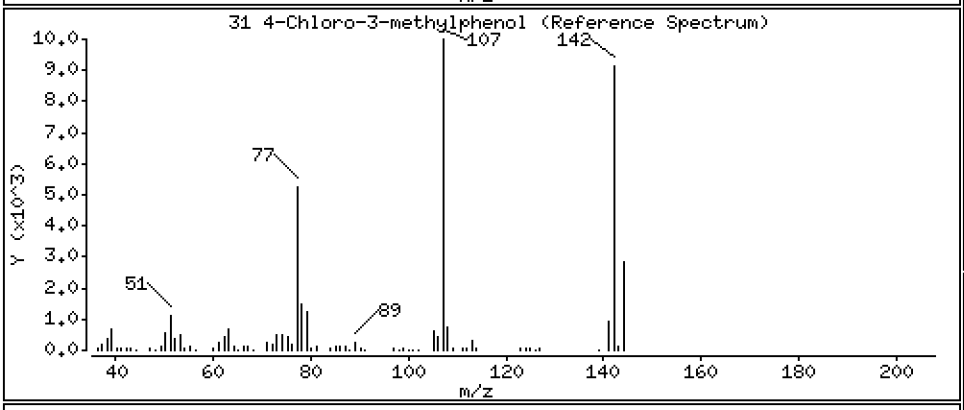
Concentration: 4.640 ug/mL

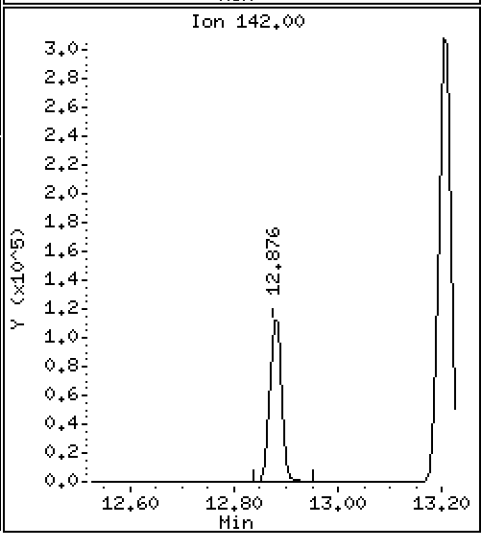


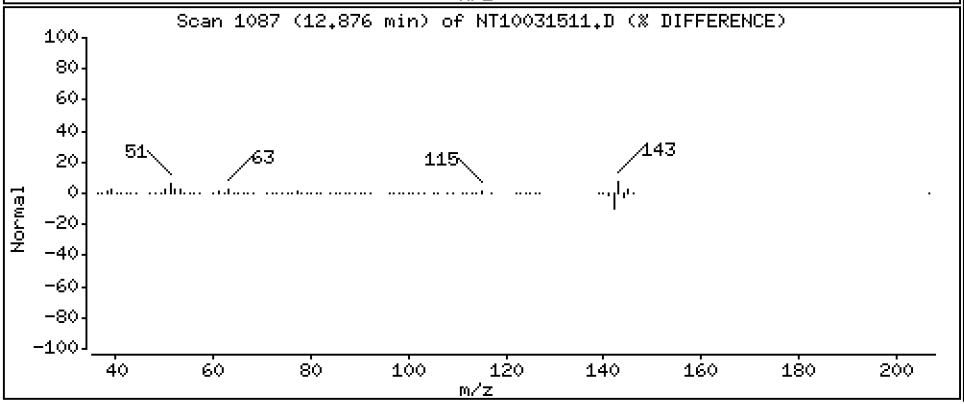












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

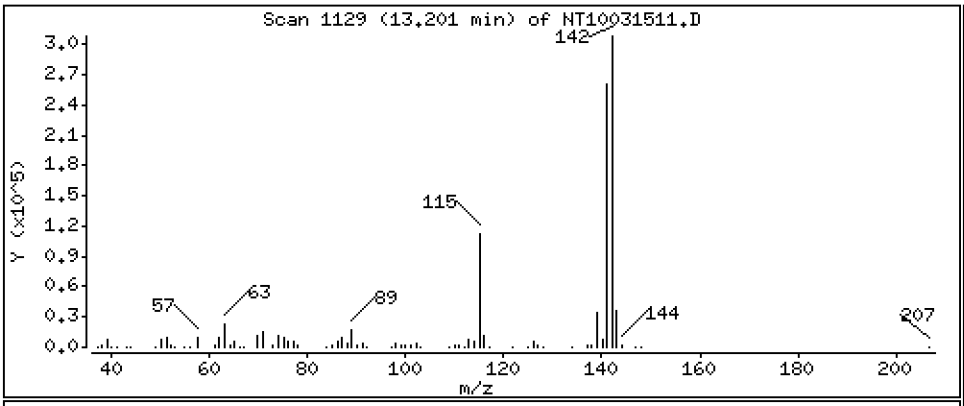
Operator: VTS

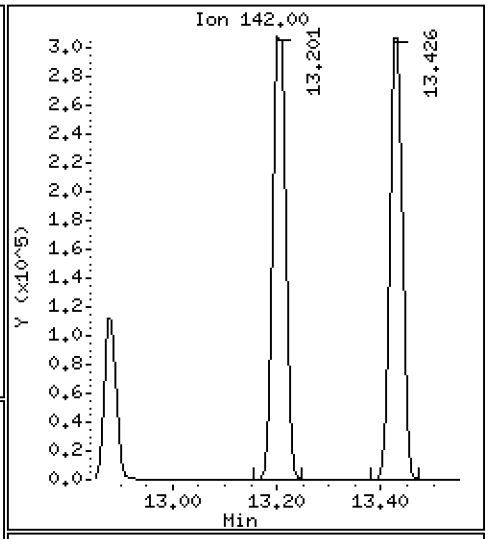
Column phase: ZB-5msi

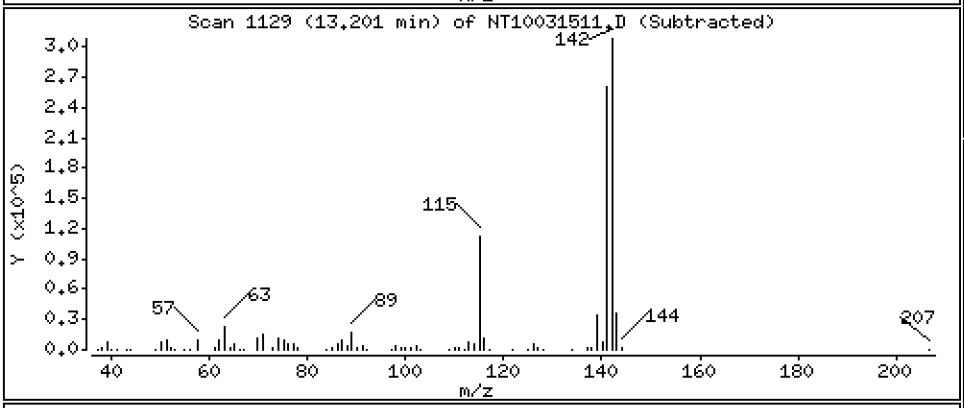
Column diameter: 0.25

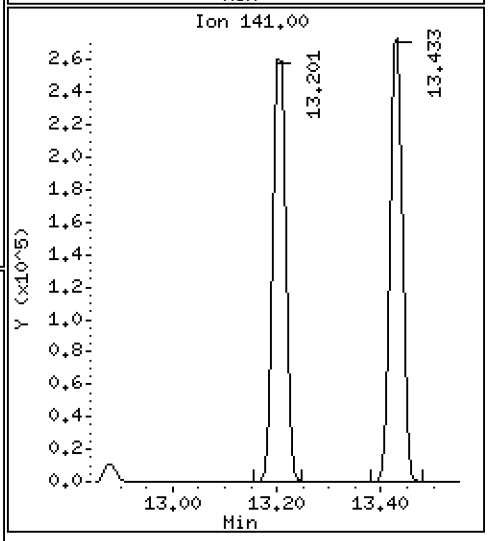
32 2-Methylnaphthalene

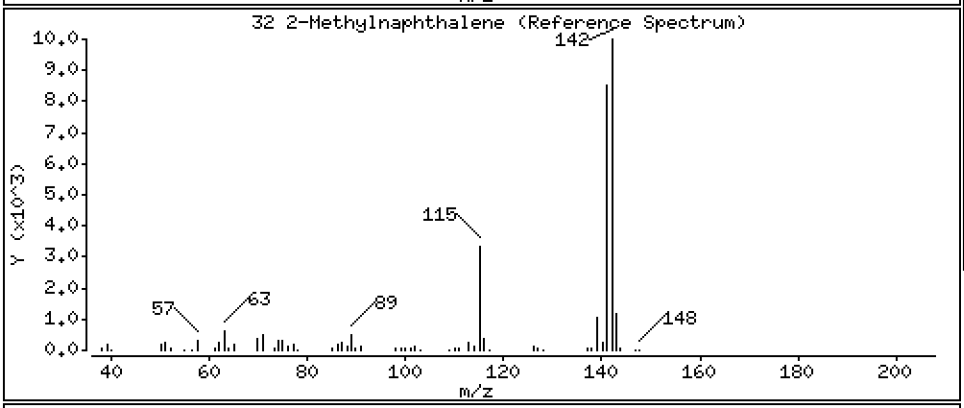
Concentration: 4.596 ug/mL

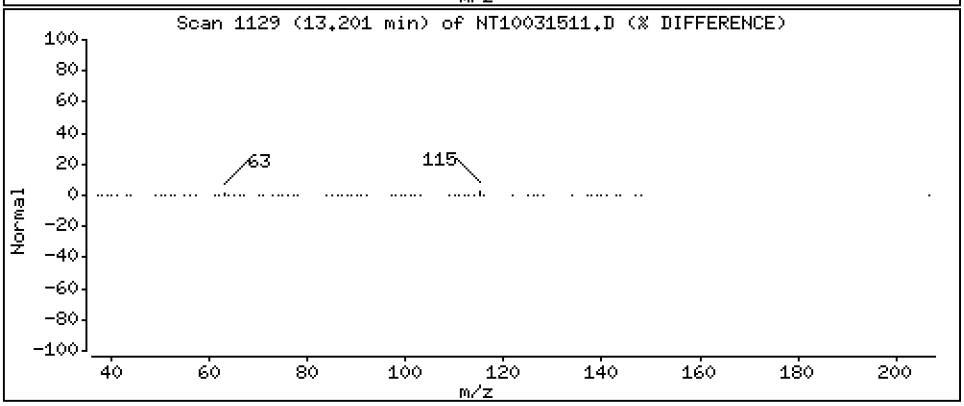












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

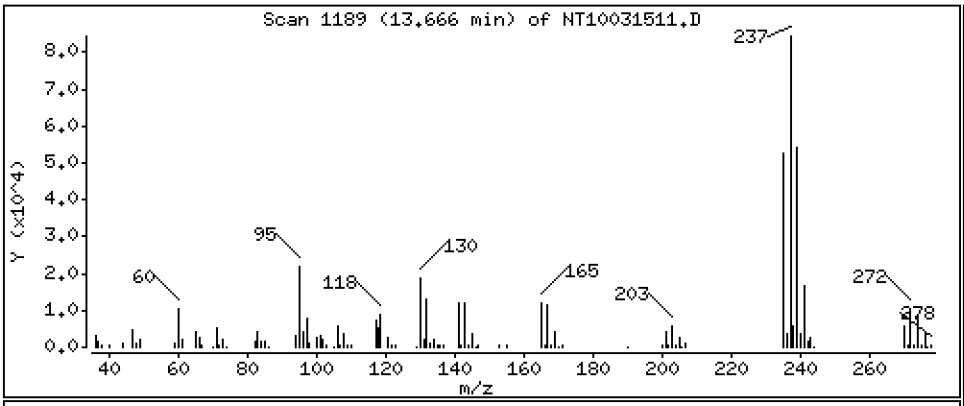
Operator: VTS

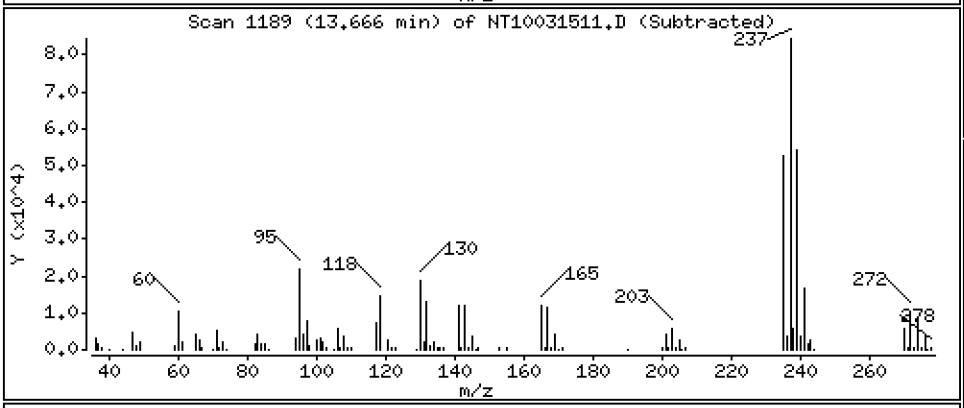
Column phase: ZB-5msi

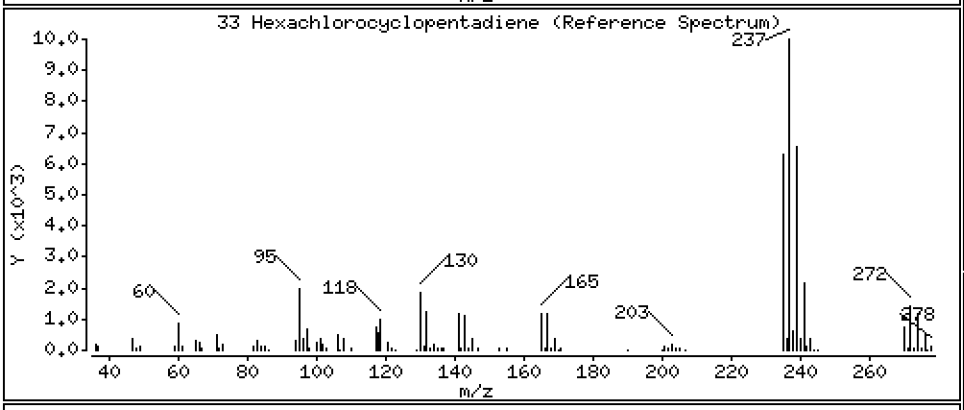
Column diameter: 0.25

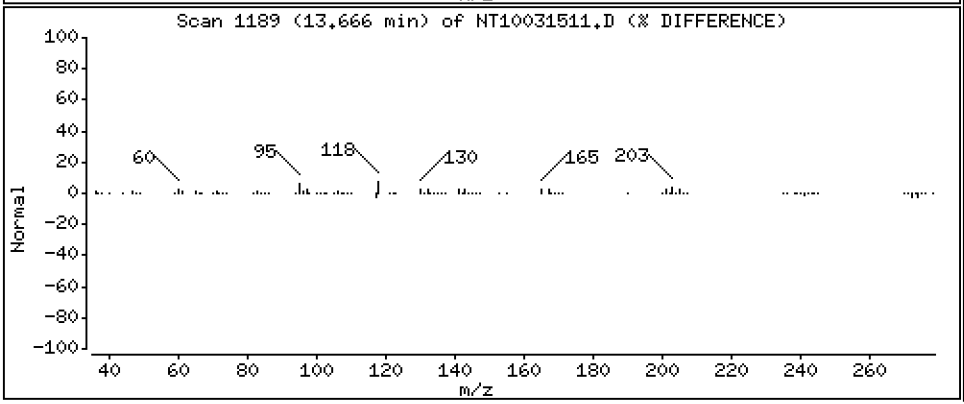
33 Hexachlorocyclopentadiene

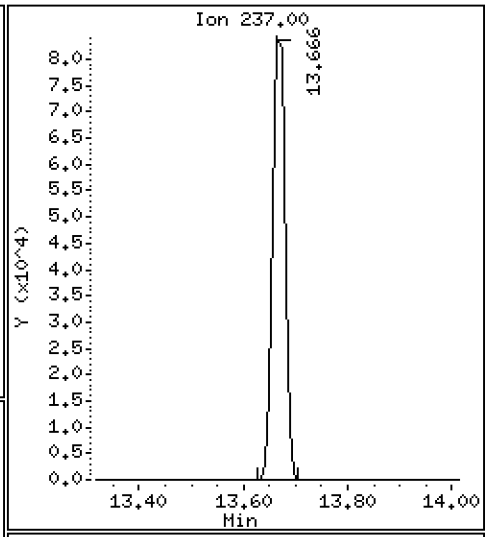
Concentration: 4.729 ug/mL

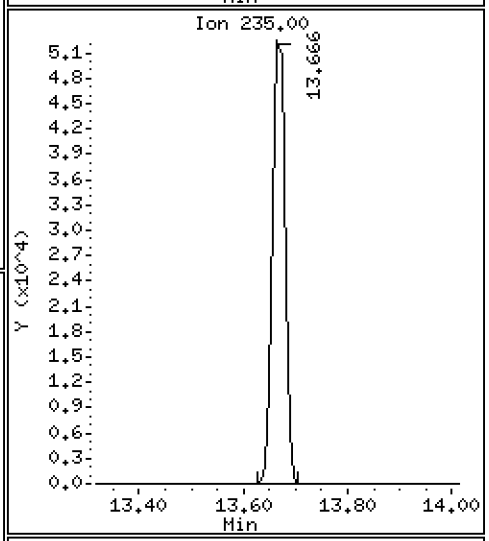


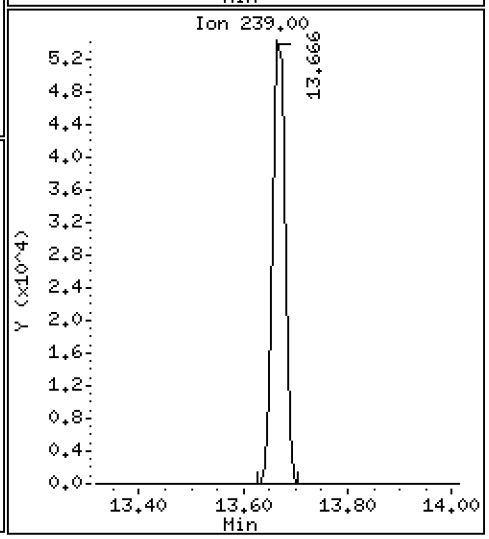












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

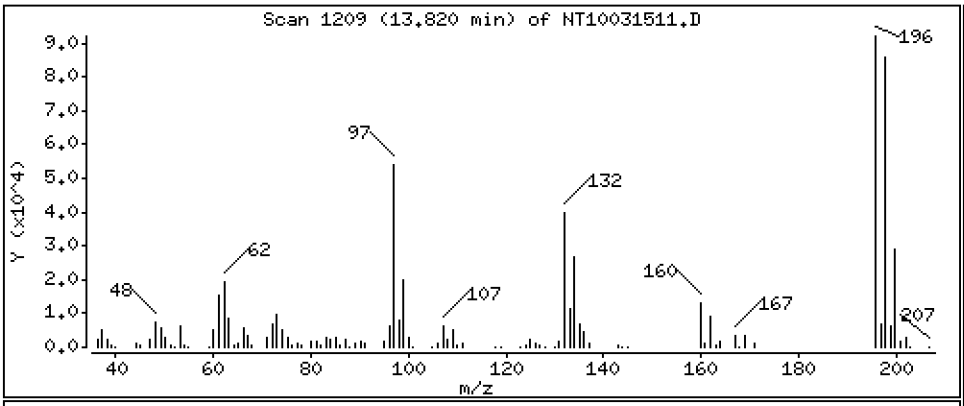
Operator: VTS

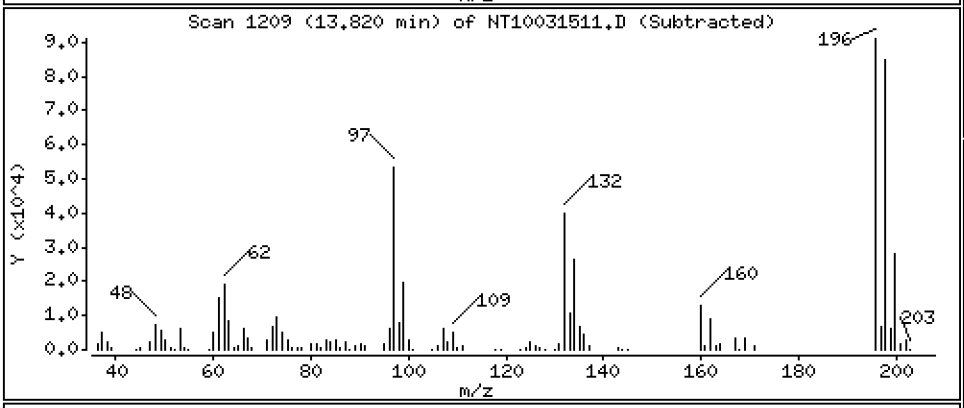
Column phase: ZB-5msi

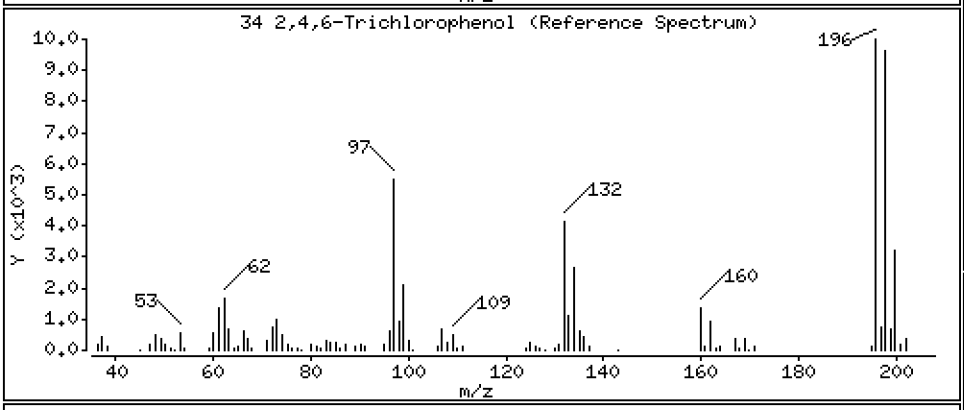
Column diameter: 0.25

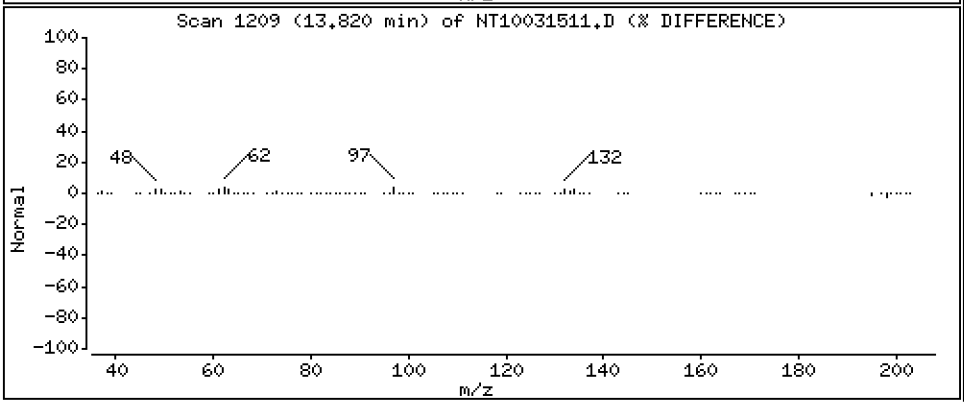
34 2,4,6-Trichlorophenol

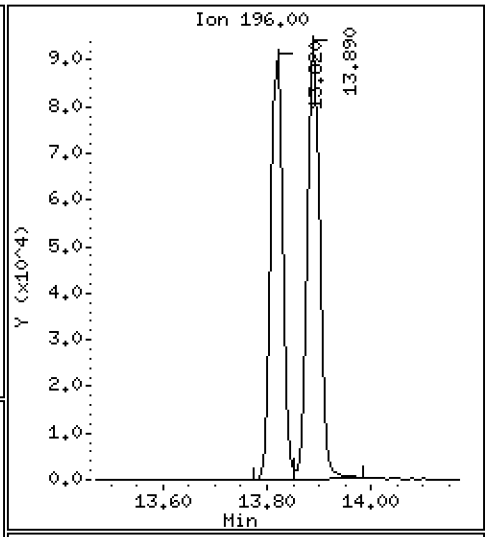
Concentration: 4.596 ug/mL

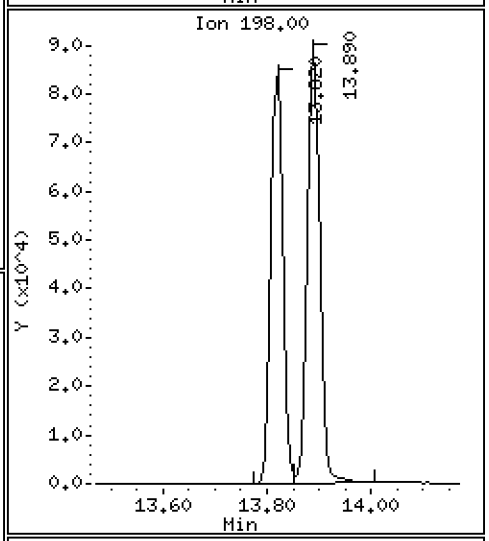


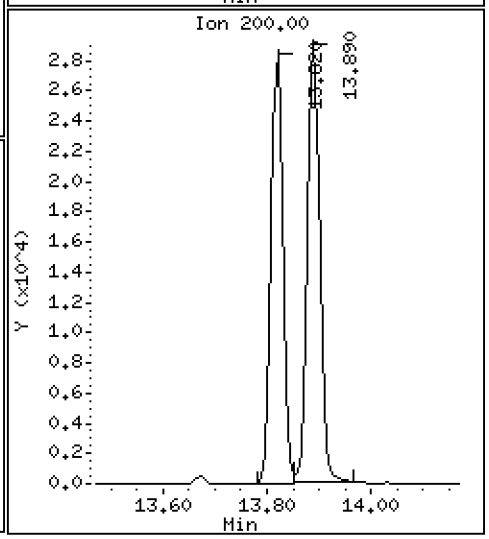












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

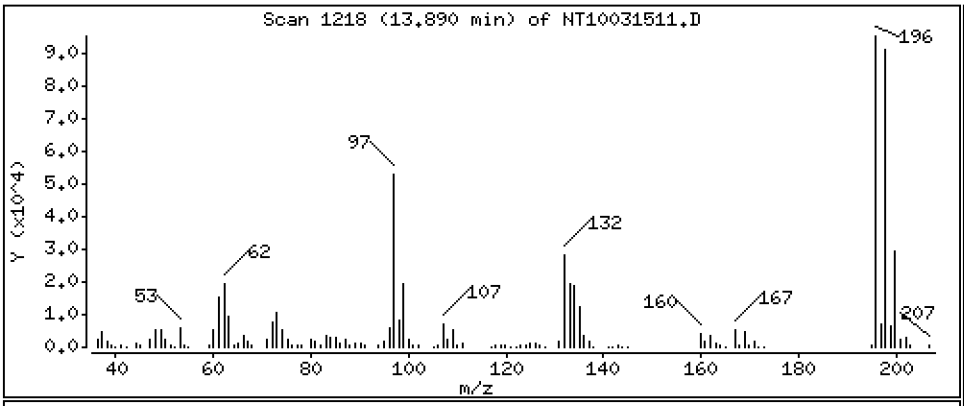
Operator: VTS

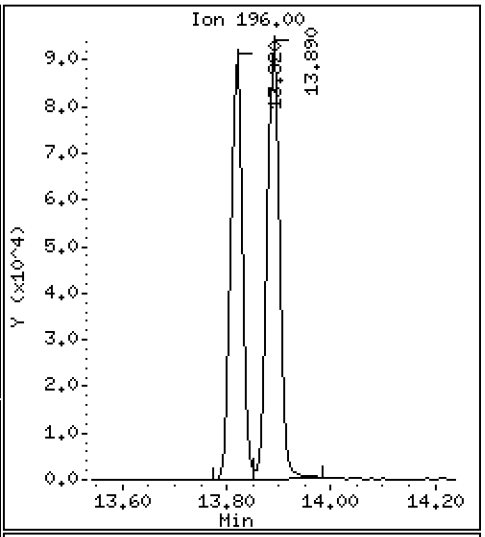
Column phase: ZB-5msi

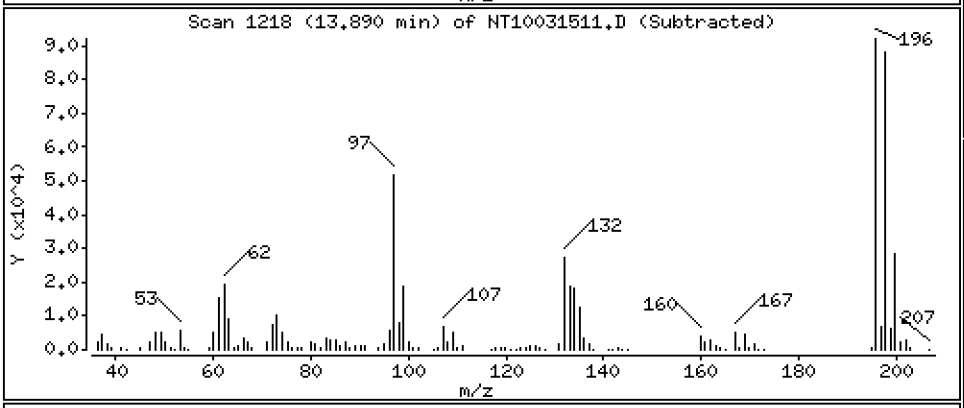
Column diameter: 0.25

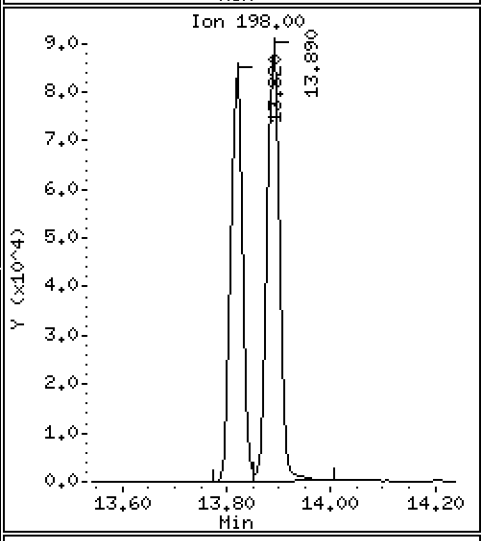
35 2,4,5-Trichlorophenol

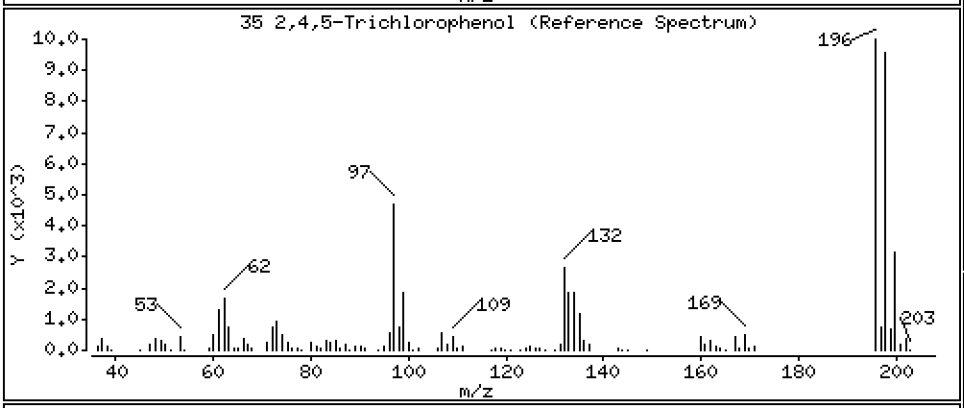
Concentration: 4.409 ug/mL

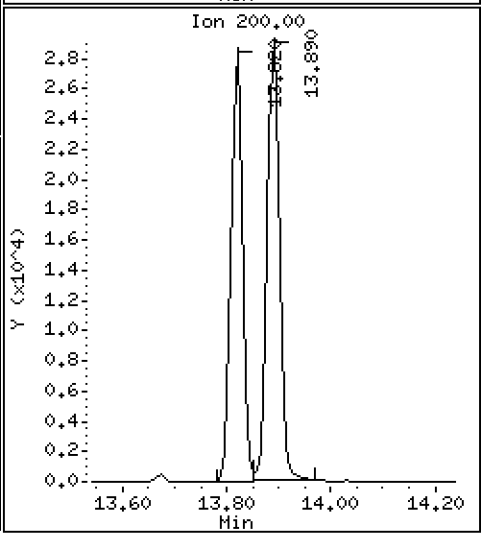


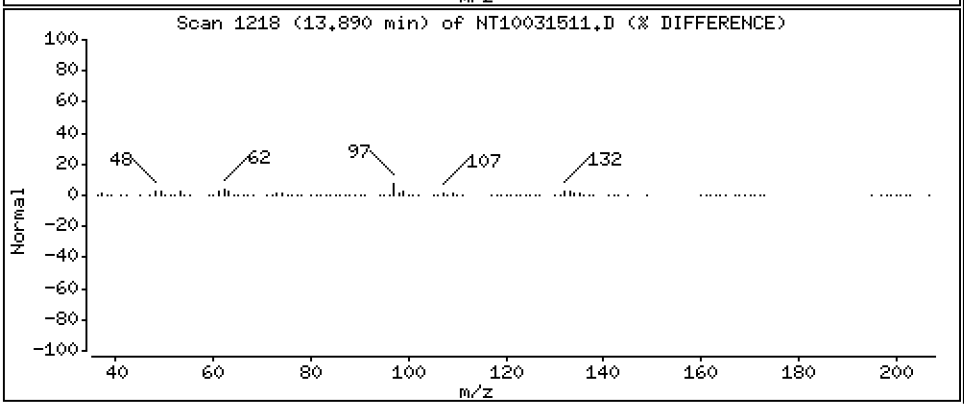












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

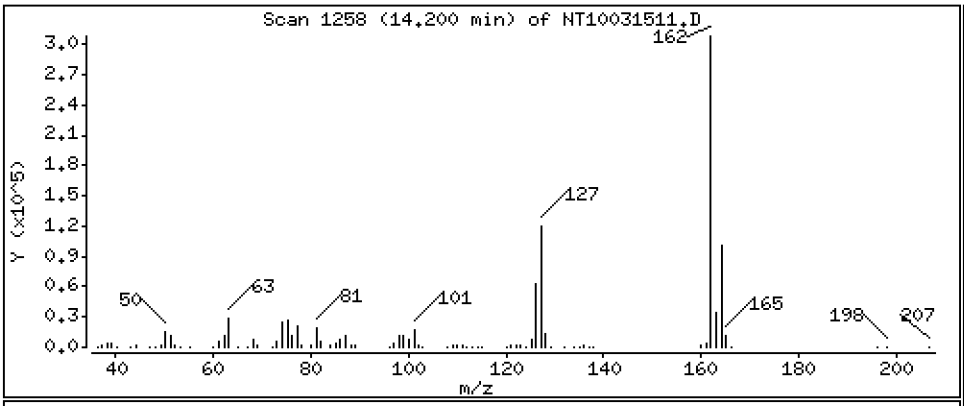
Operator: VTS

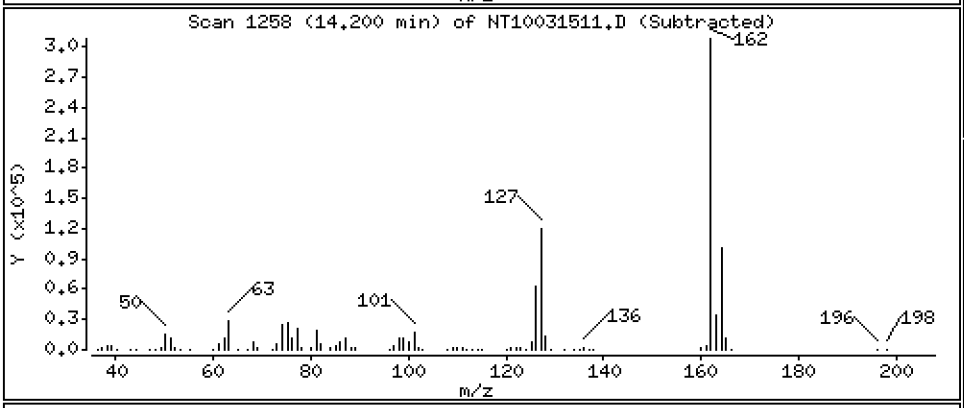
Column phase: ZB-5msi

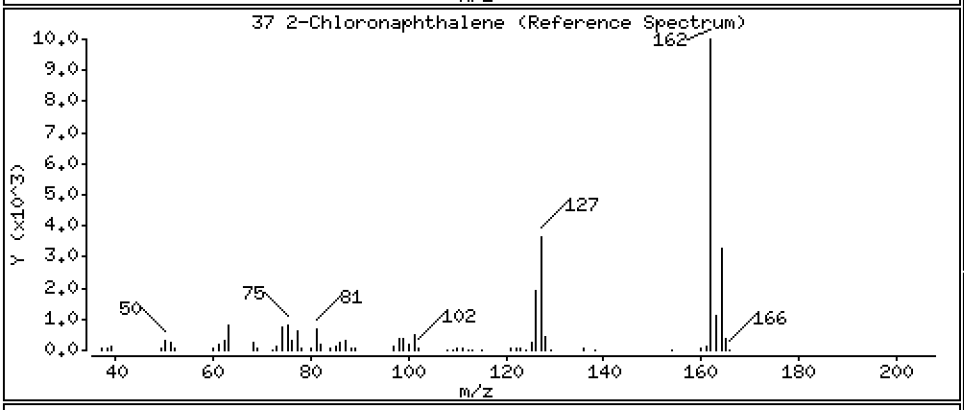
Column diameter: 0.25

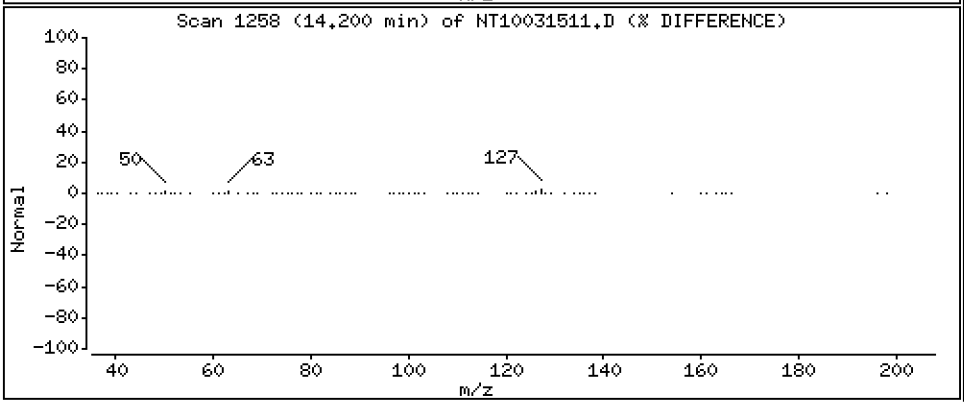
37 2-Chloronaphthalene

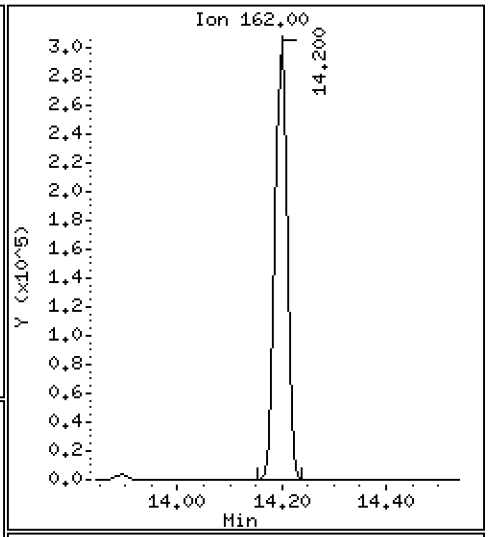
Concentration: 4.796 ug/mL

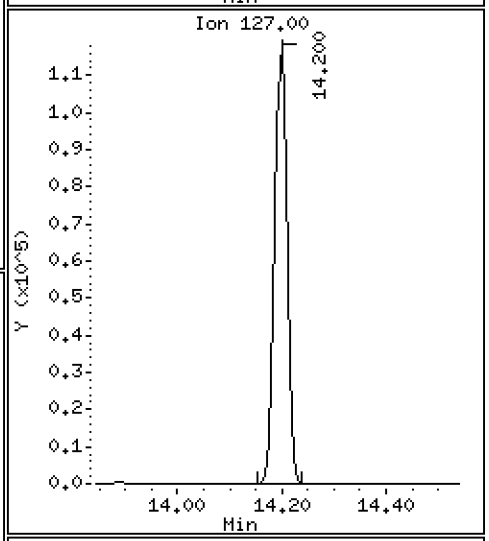


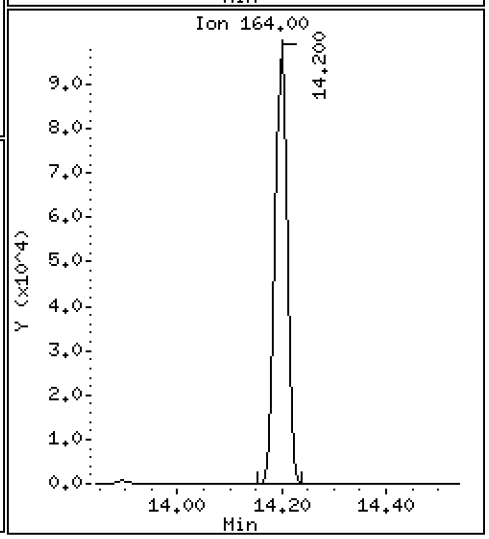












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

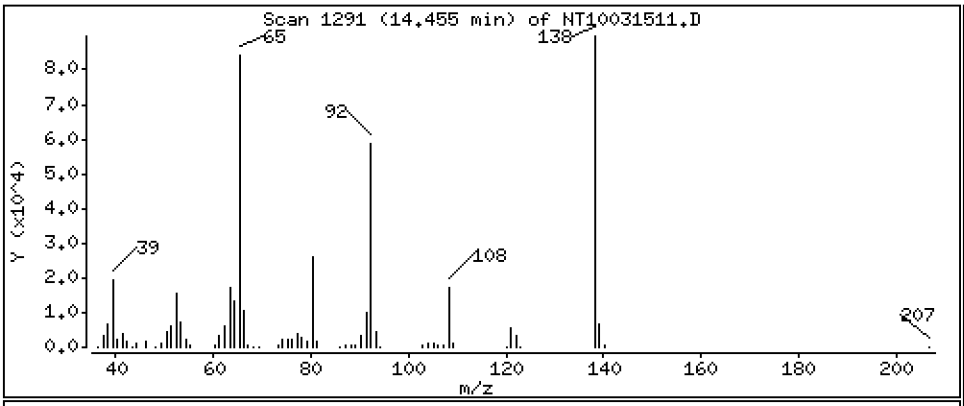
Operator: VTS

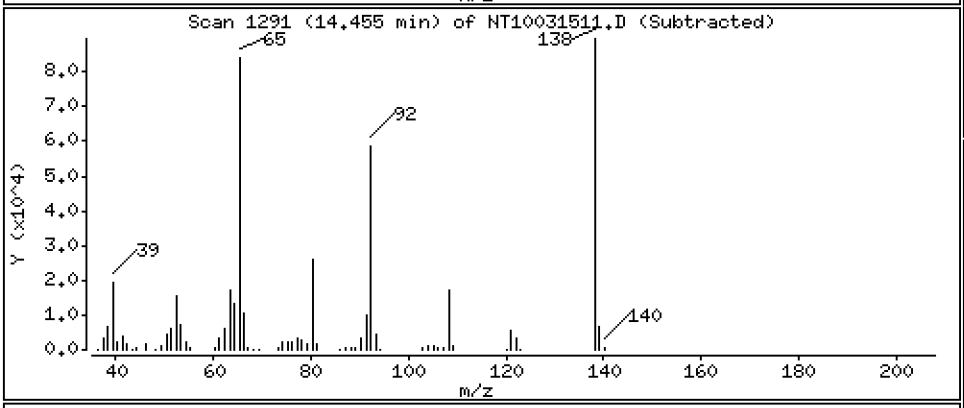
Column phase: ZB-5msi

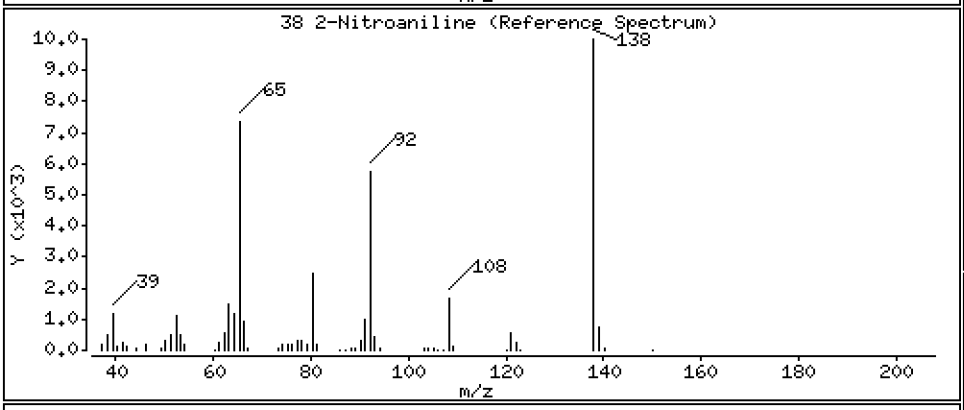
Column diameter: 0.25

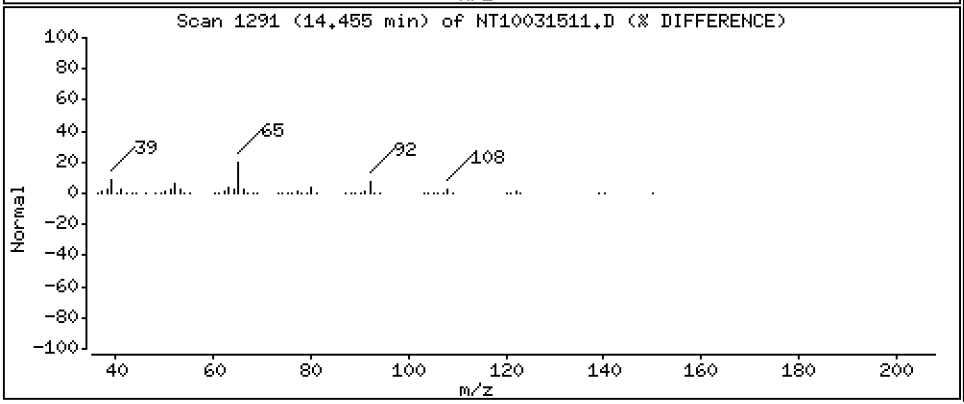
38 2-Nitroaniline

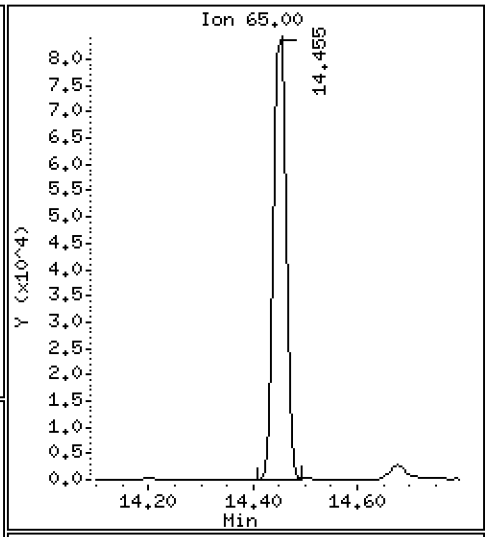
Concentration: 4.911 ug/mL

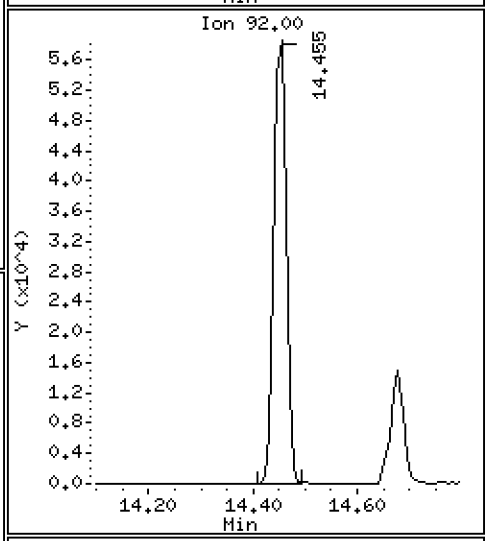


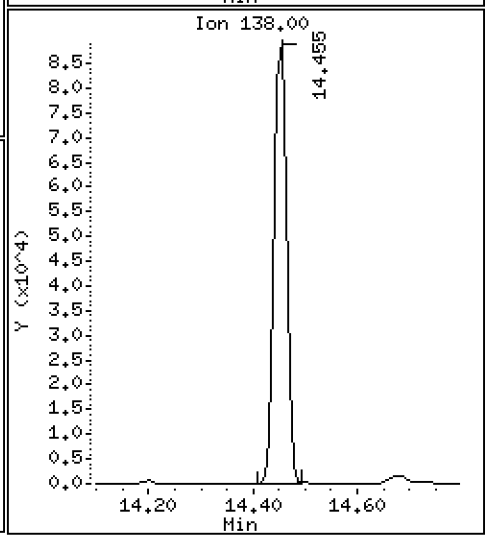












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

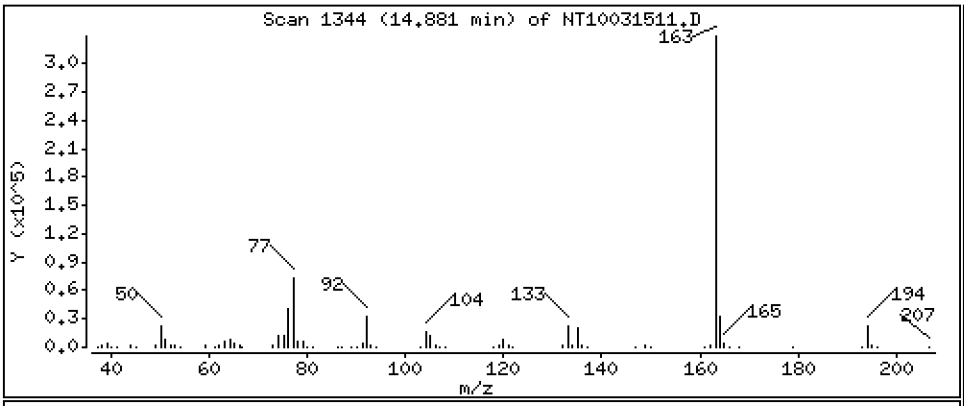
Operator: VTS

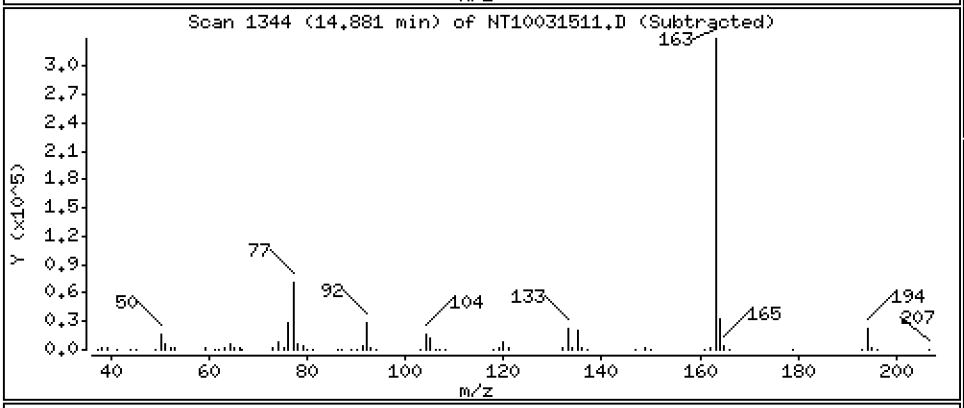
Column phase: ZB-5msi

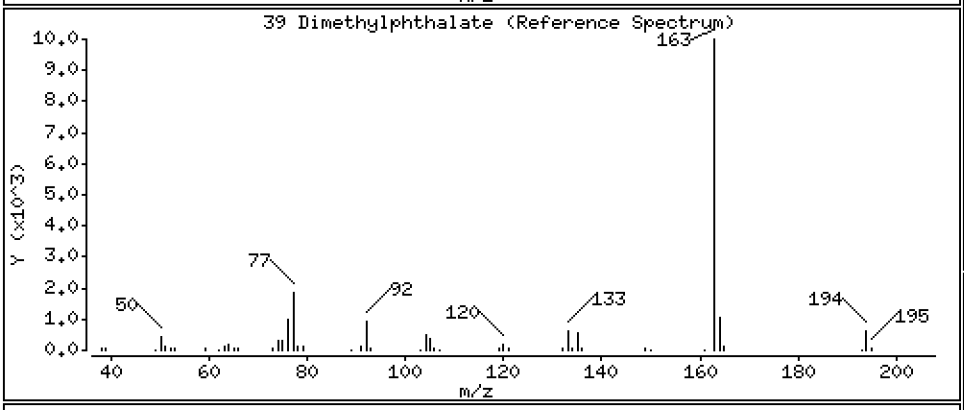
Column diameter: 0.25

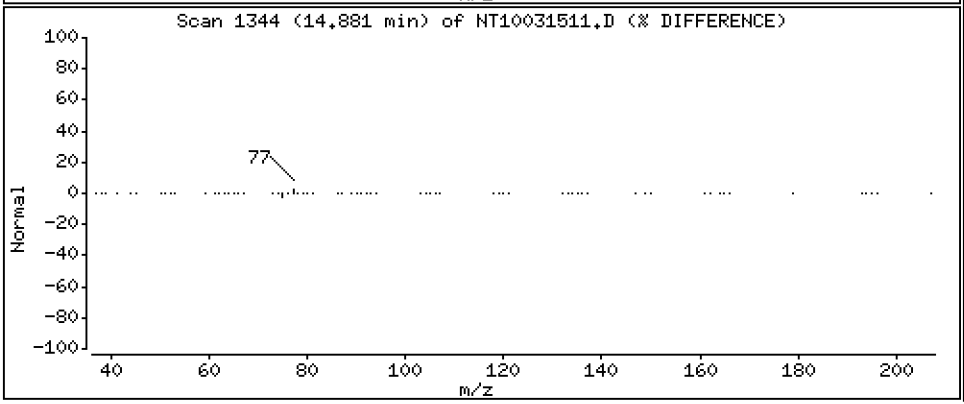
39 Dimethylphthalate

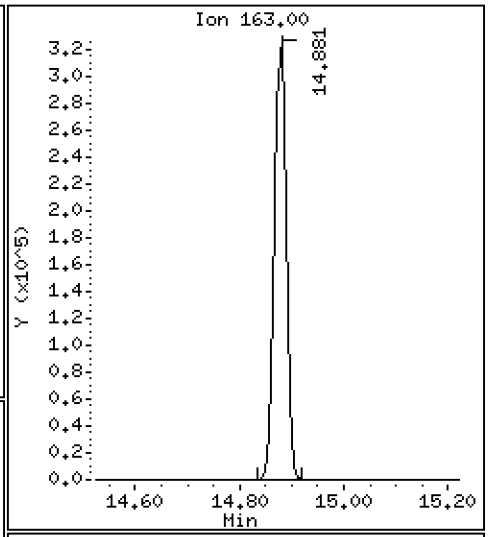
Concentration: 4.937 ug/mL

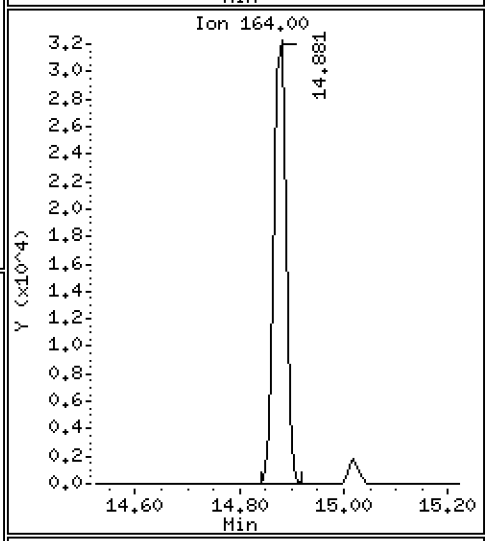


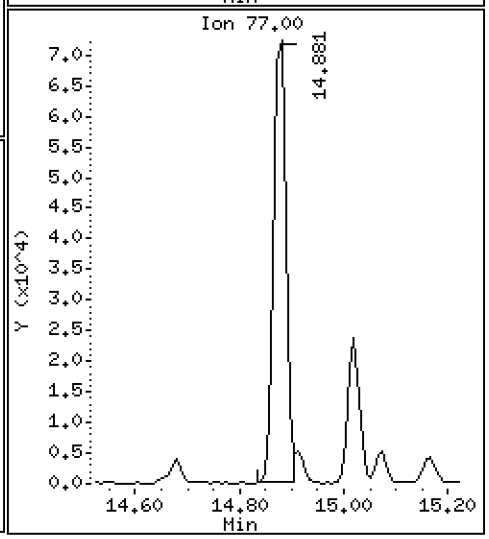












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

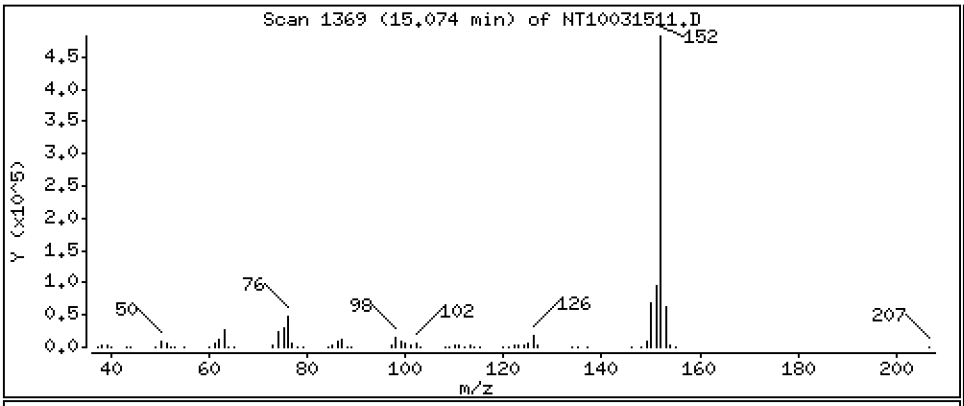
Operator: VTS

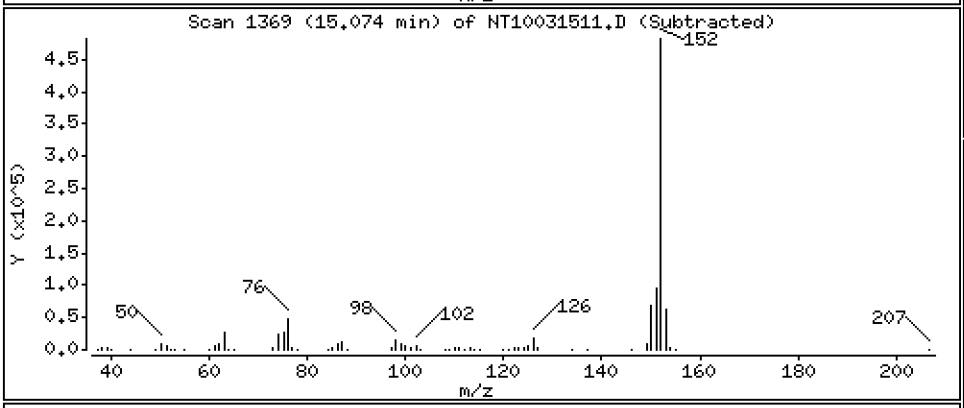
Column phase: ZB-5msi

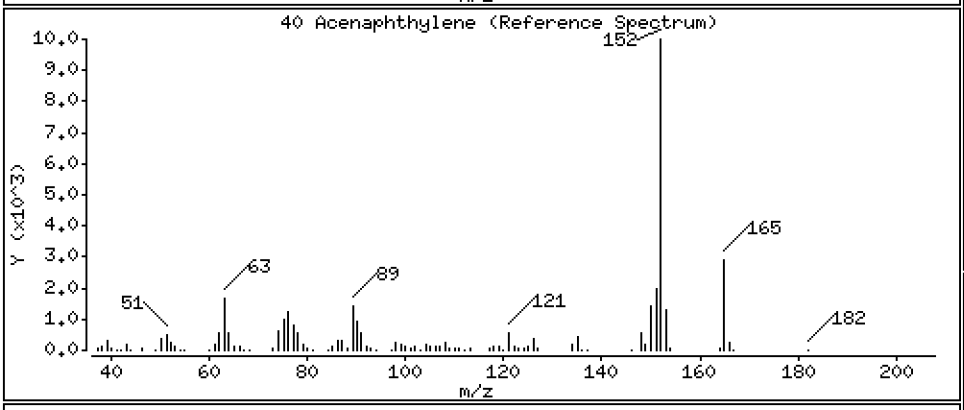
Column diameter: 0.25

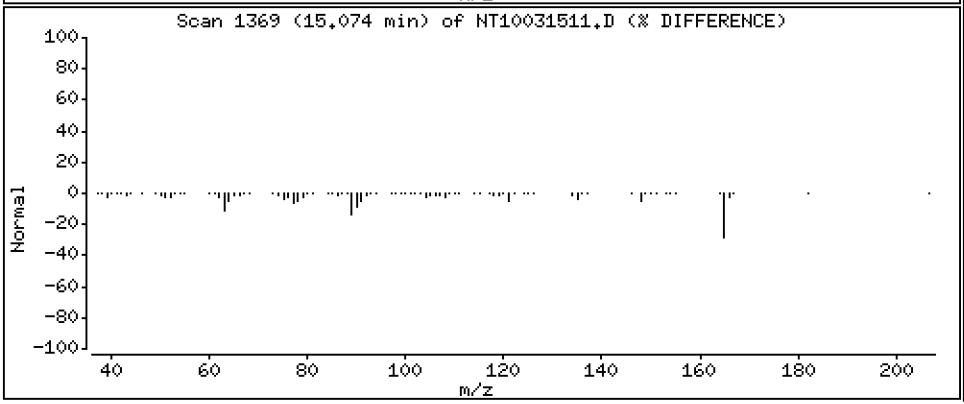
40 Acenaphthylene

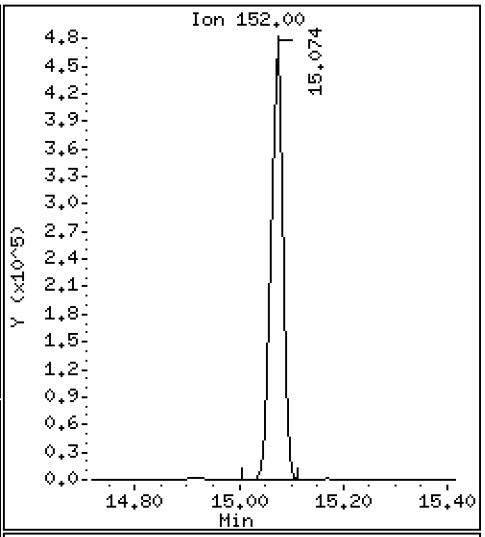
Concentration: 4.805 ug/mL

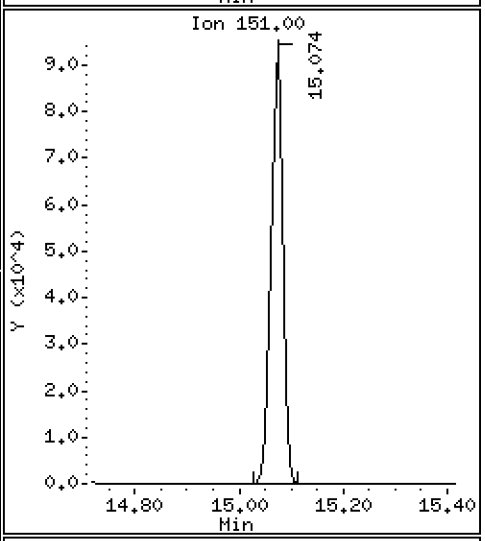


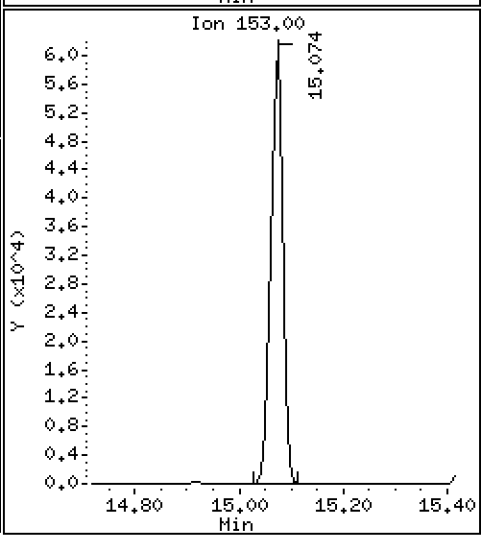












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

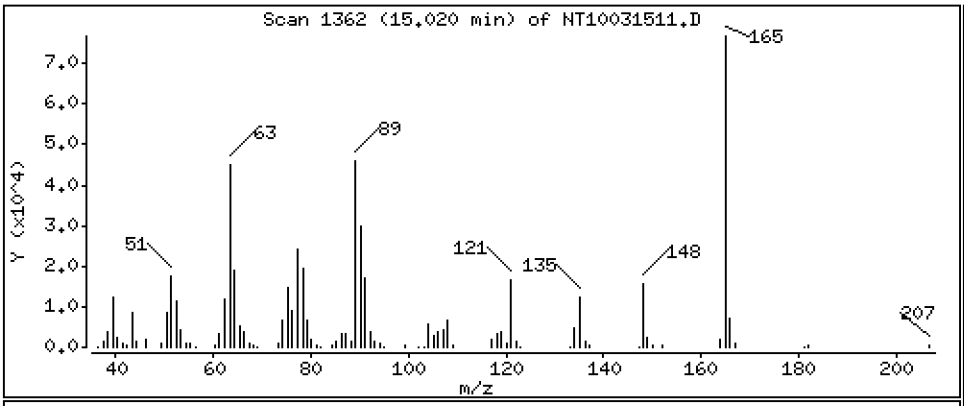
Operator: VTS

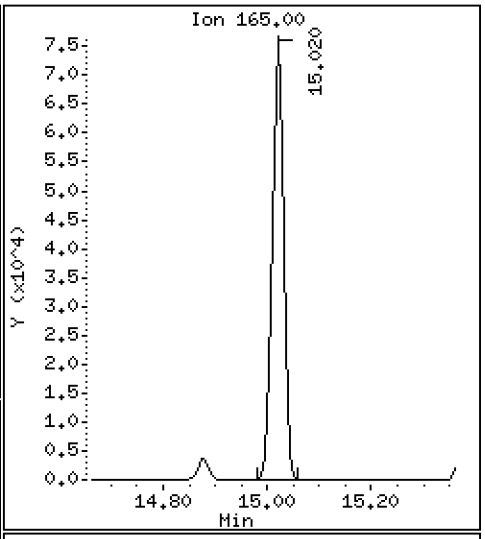
Column phase: ZB-5msi

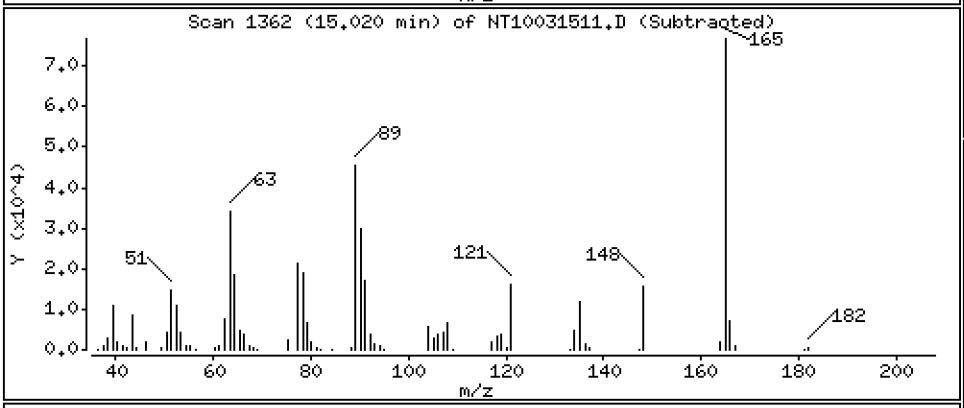
Column diameter: 0.25

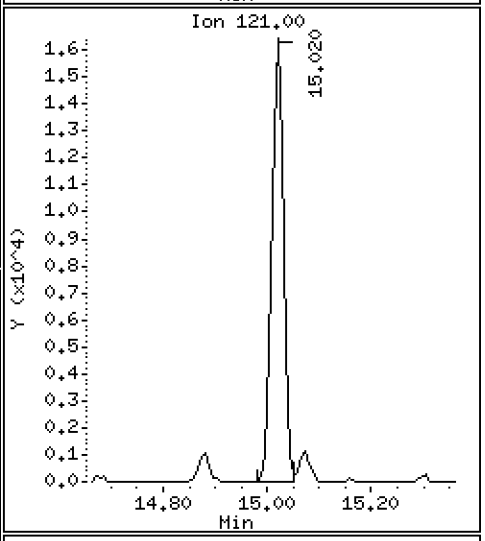
41 2,6-Dinitrotoluene

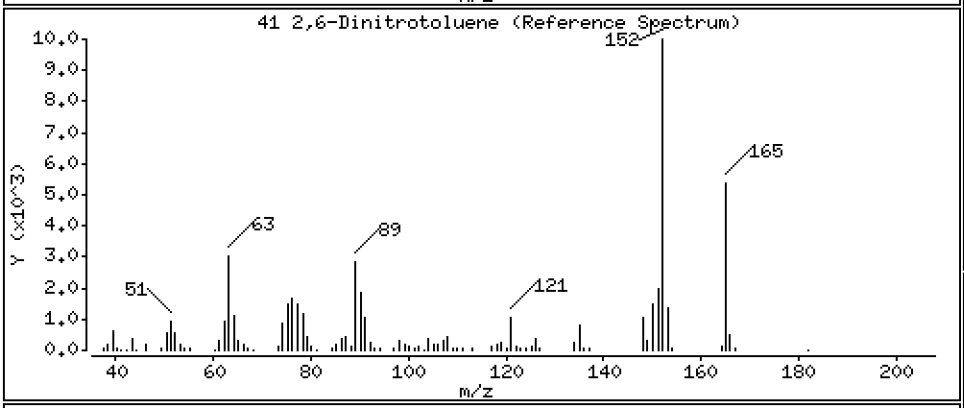
Concentration: 5.298 ug/mL

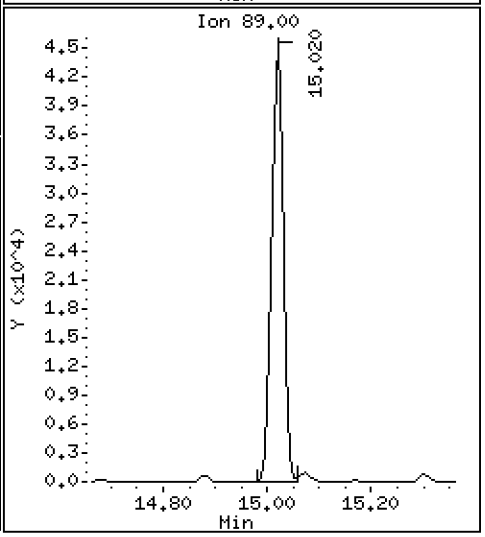


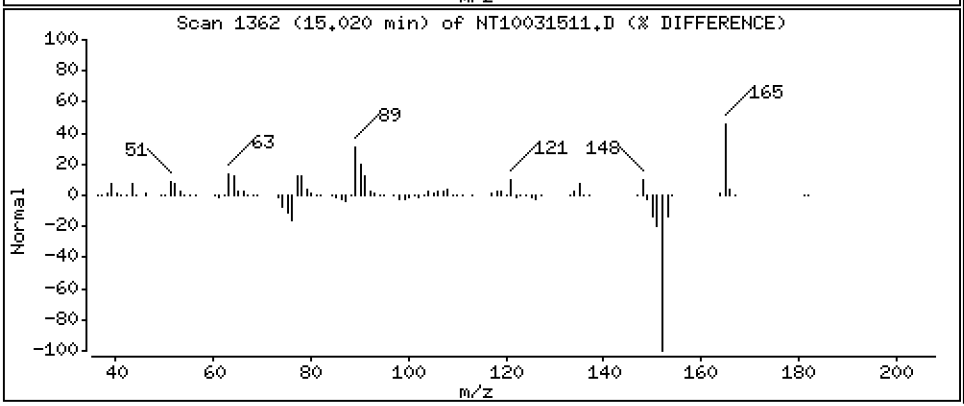












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

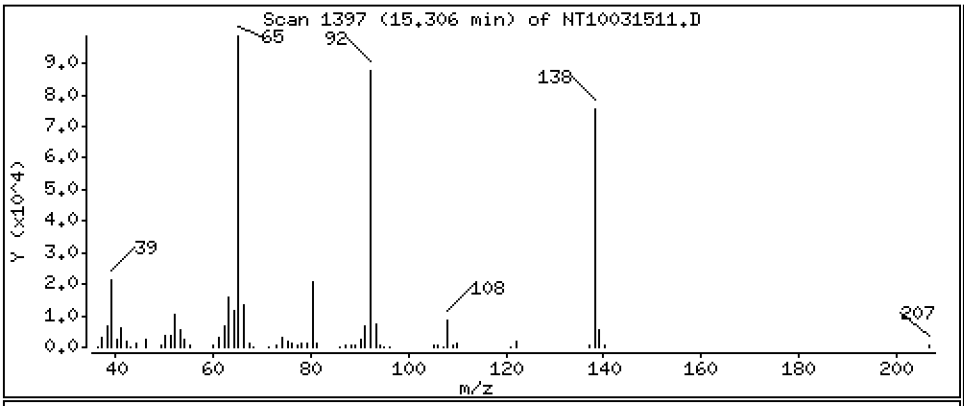
Operator: VTS

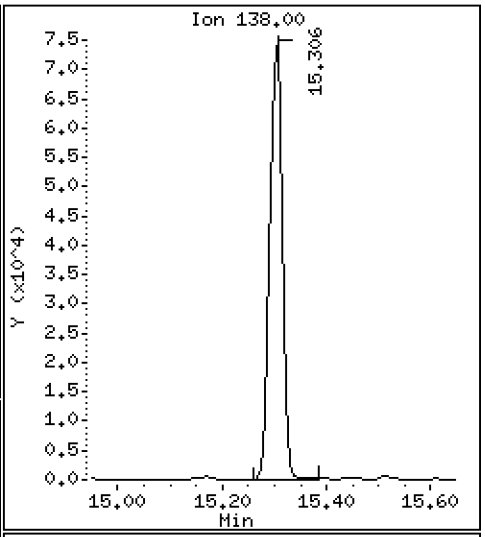
Column phase: ZB-5msi

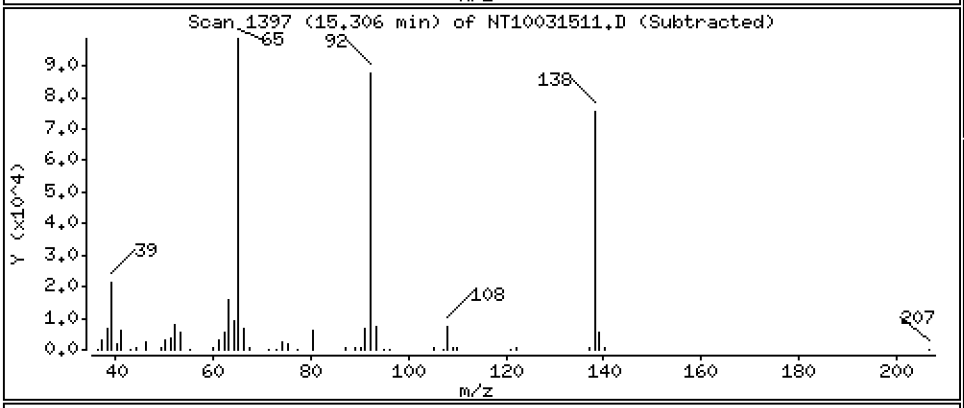
Column diameter: 0.25

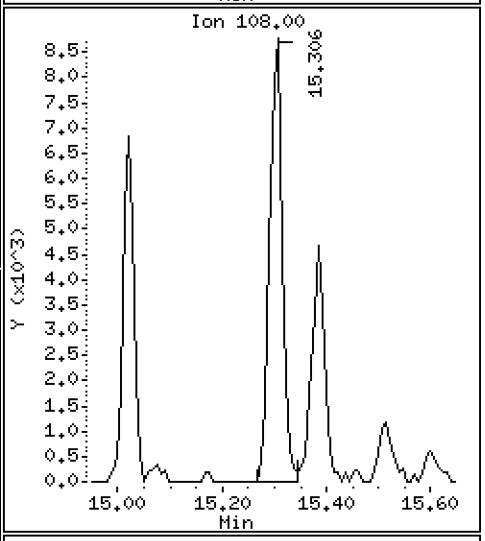
43 3-Nitroaniline

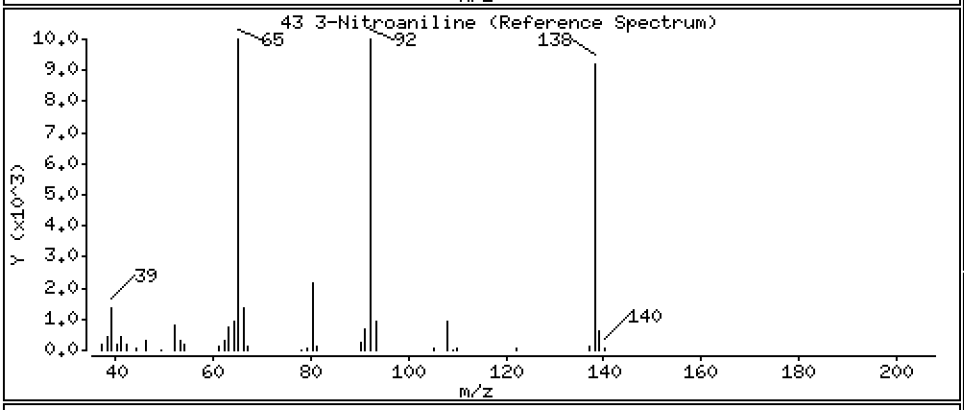
Concentration: 5.014 ug/mL

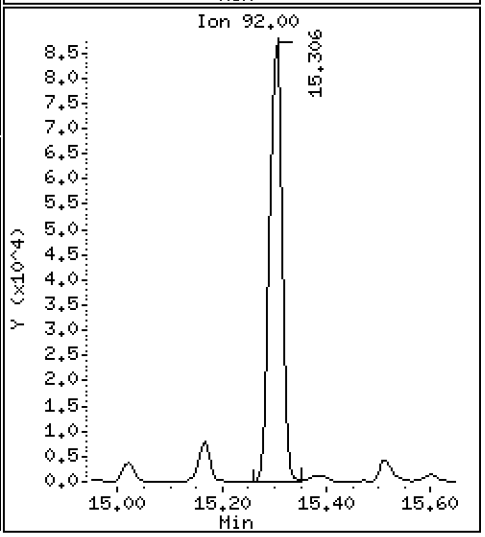


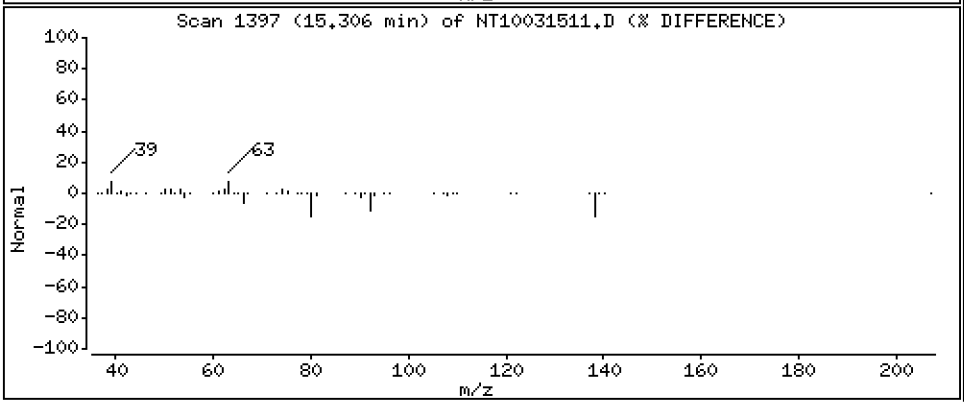












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

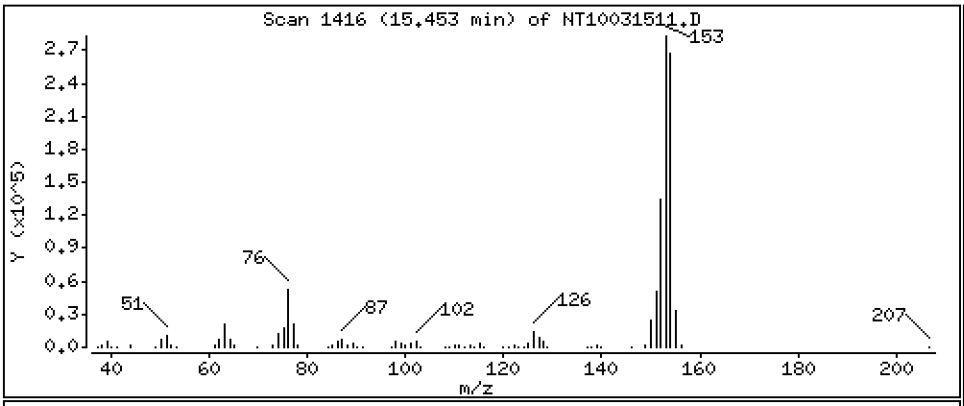
Operator: VTS

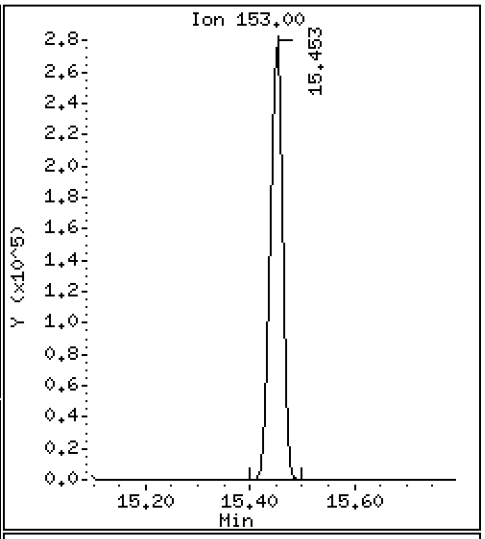
Column phase: ZB-5msi

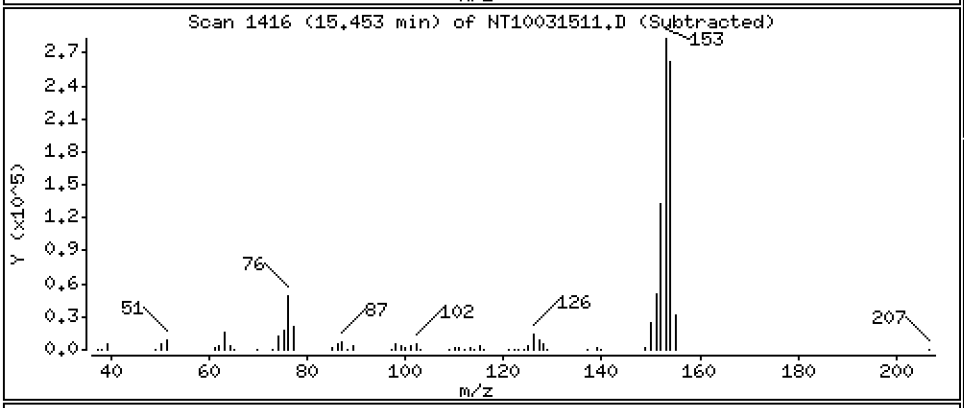
Column diameter: 0.25

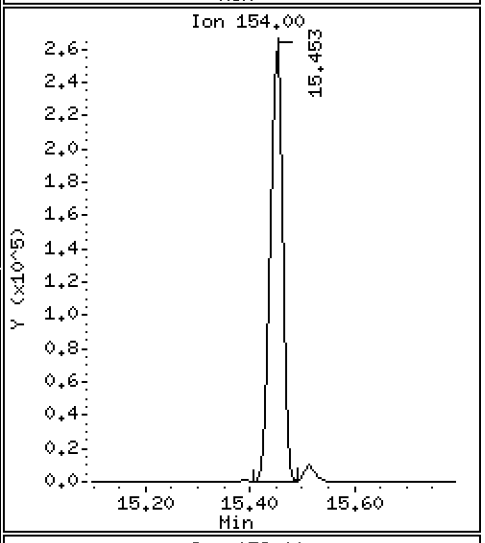
44 Acenaphthene

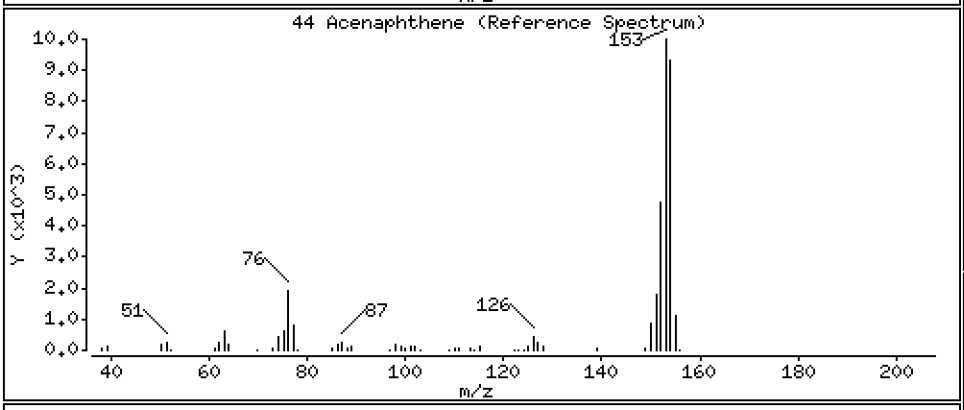
Concentration: 4.776 ug/mL

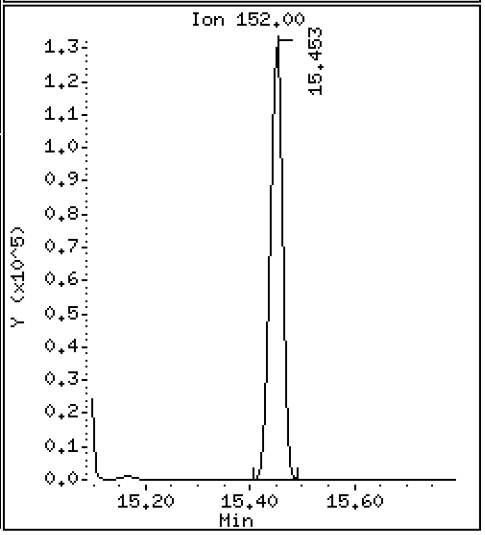


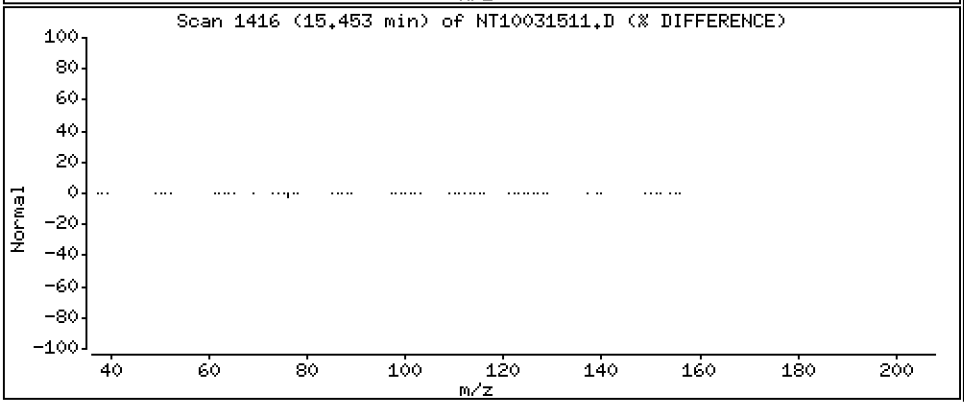












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

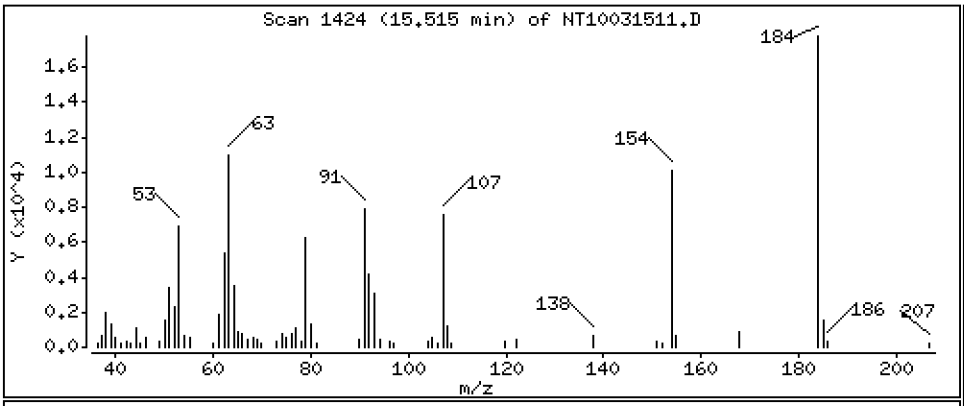
Operator: VTS

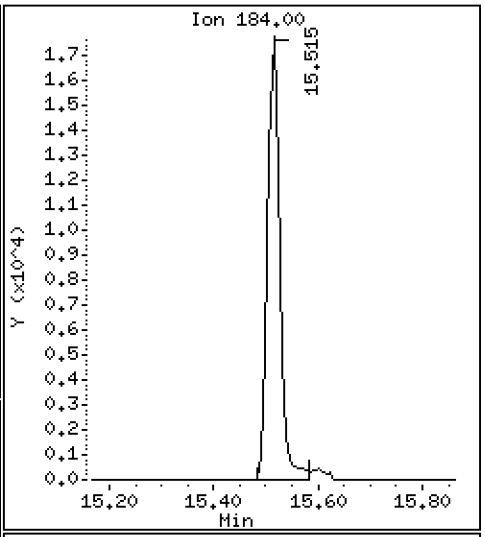
Column phase: ZB-5msi

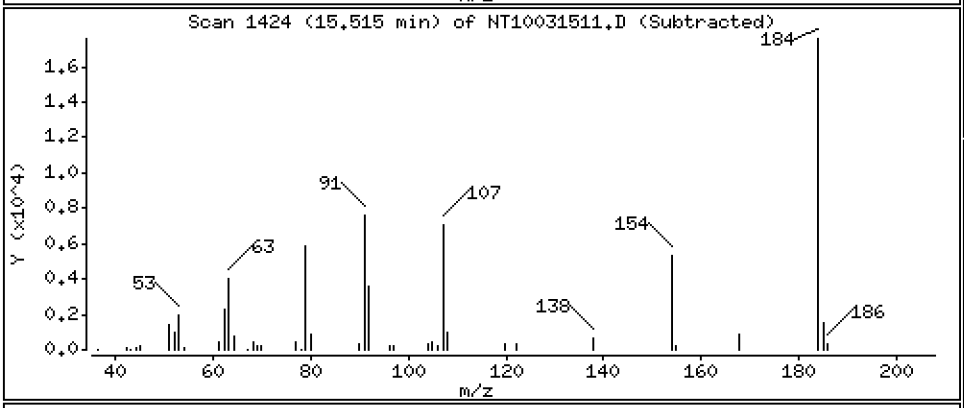
Column diameter: 0.25

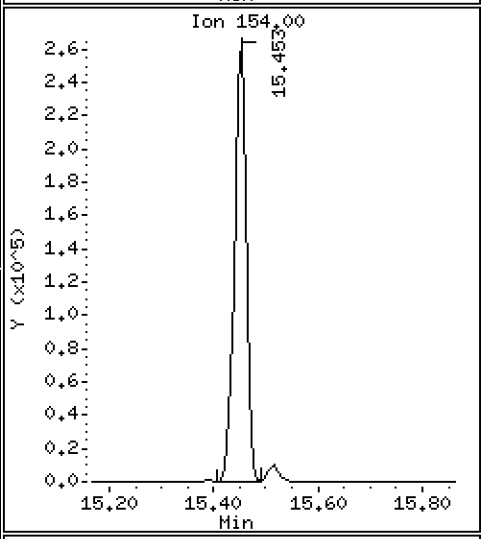
45 2,4-Dinitrophenol

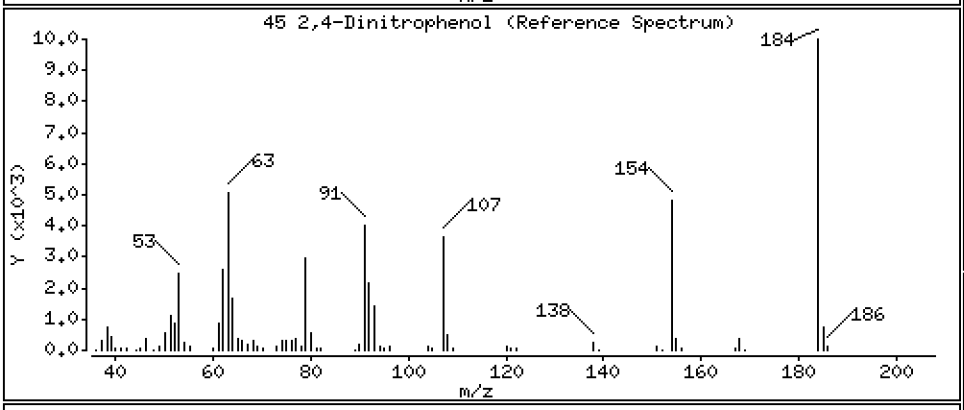
Concentration: 2.124 ug/mL

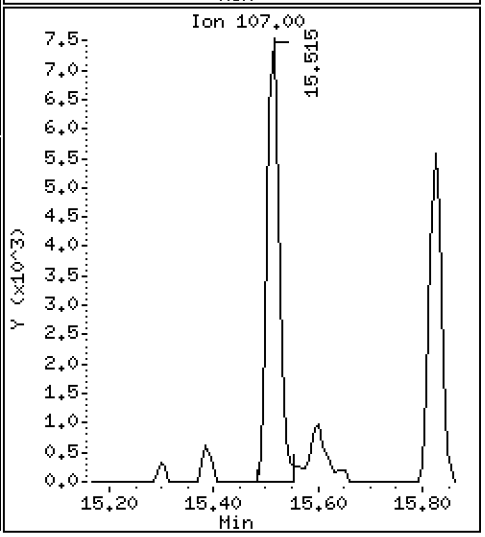


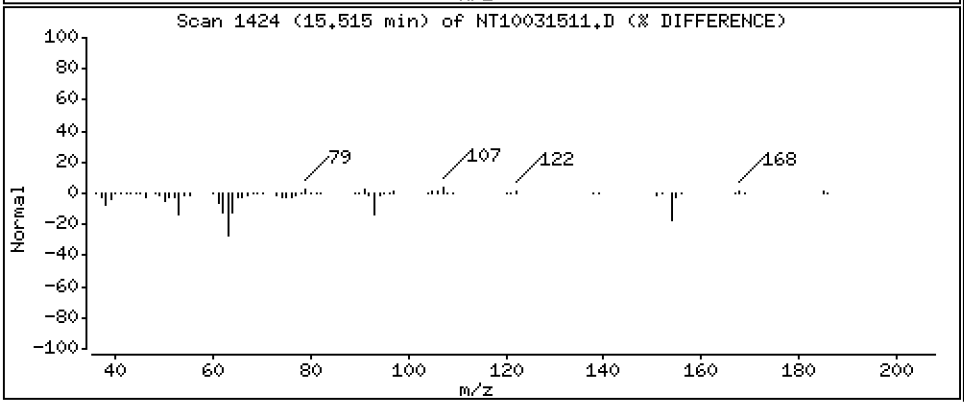












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

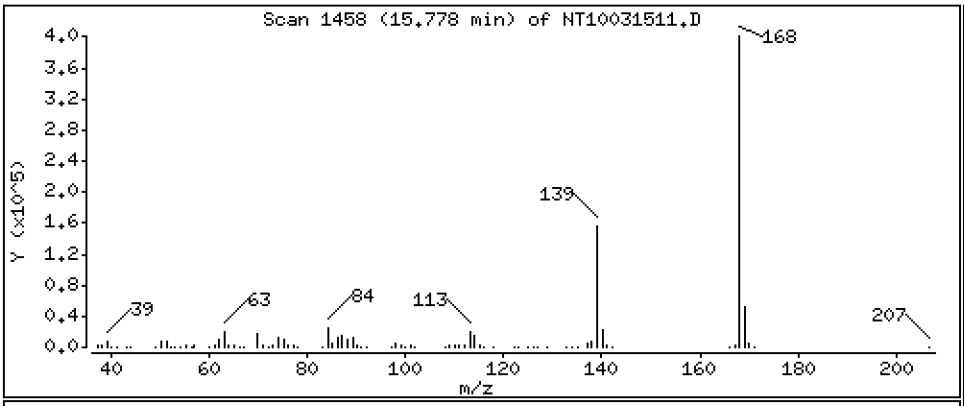
Operator: VTS

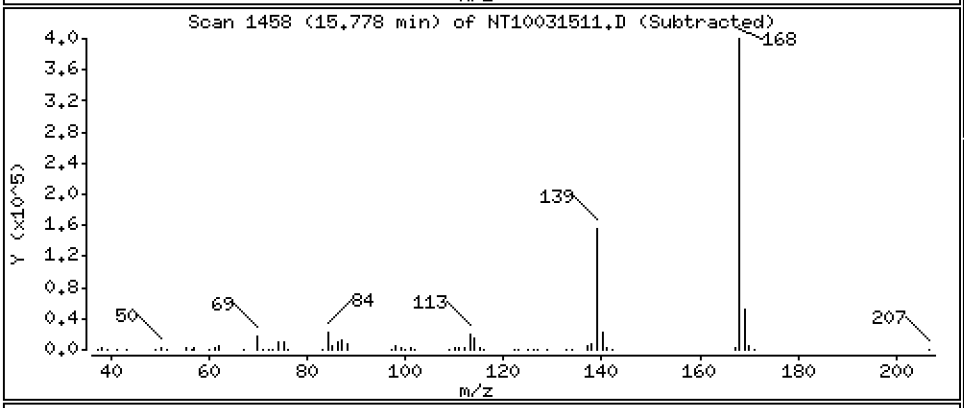
Column phase: ZB-5msi

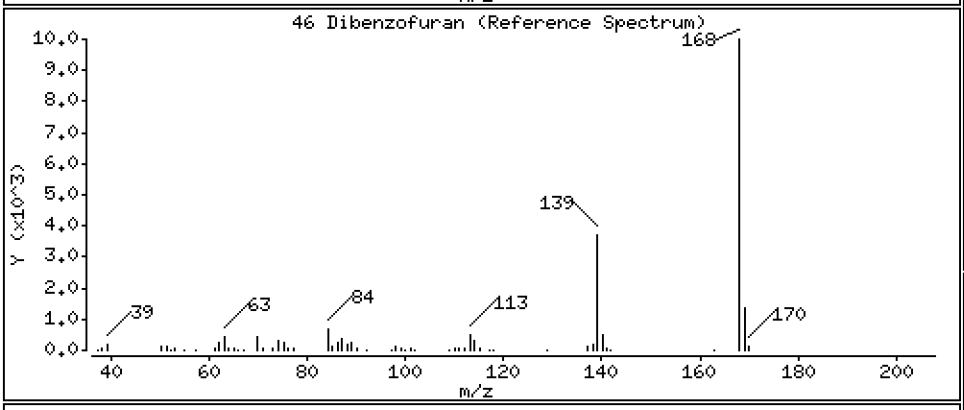
Column diameter: 0.25

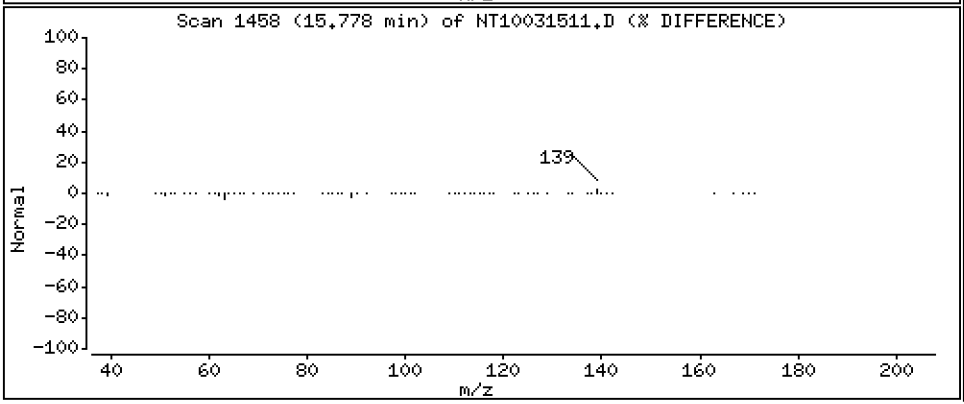
46 Dibenzofuran

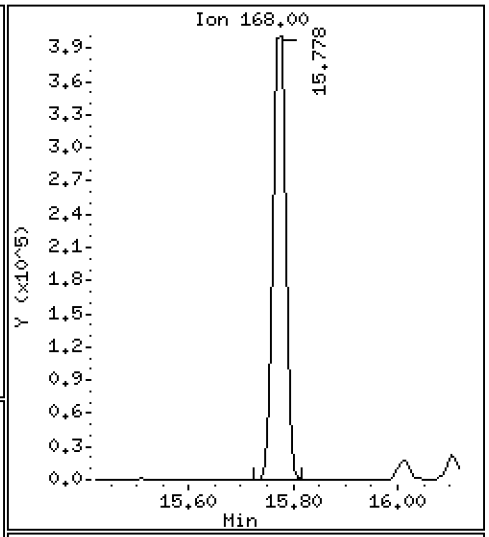
Concentration: 4.648 ug/mL

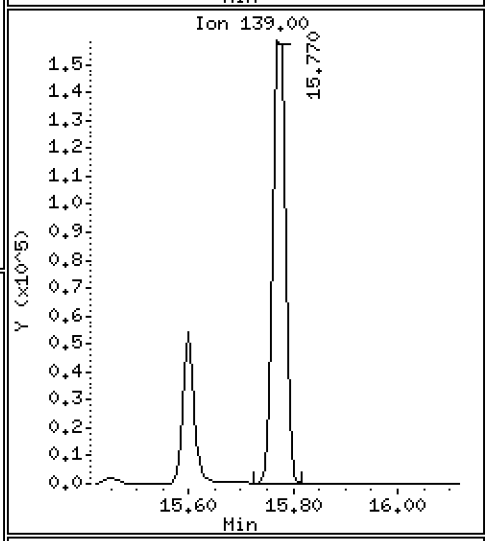


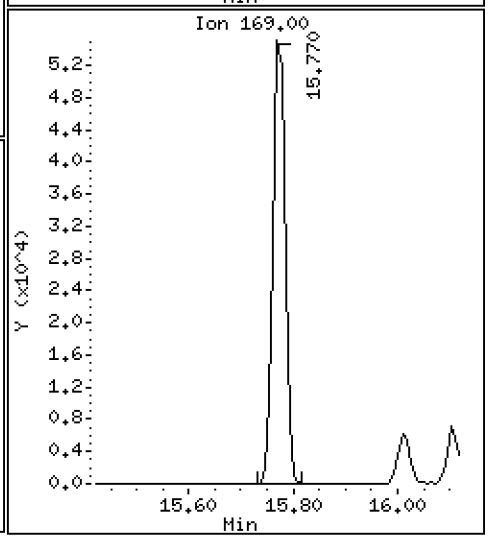












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

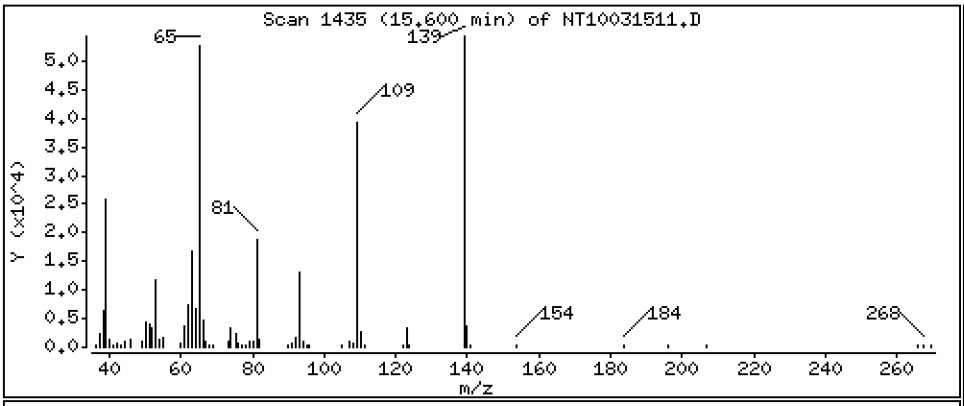
Operator: VTS

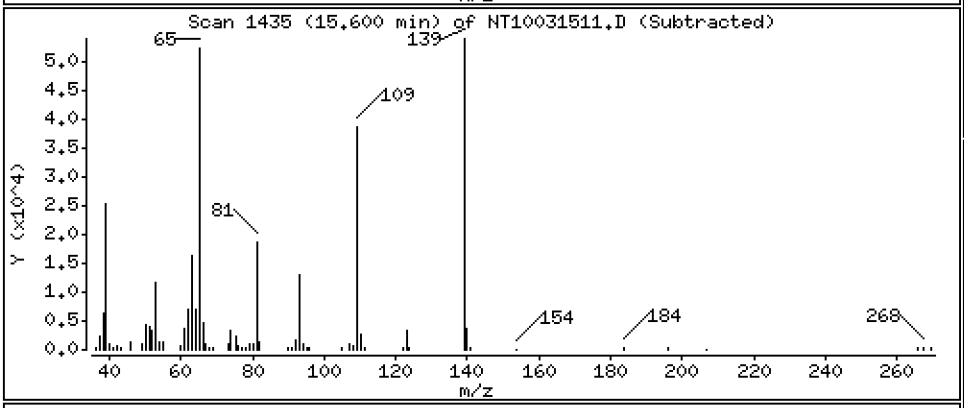
Column phase: ZB-5msi

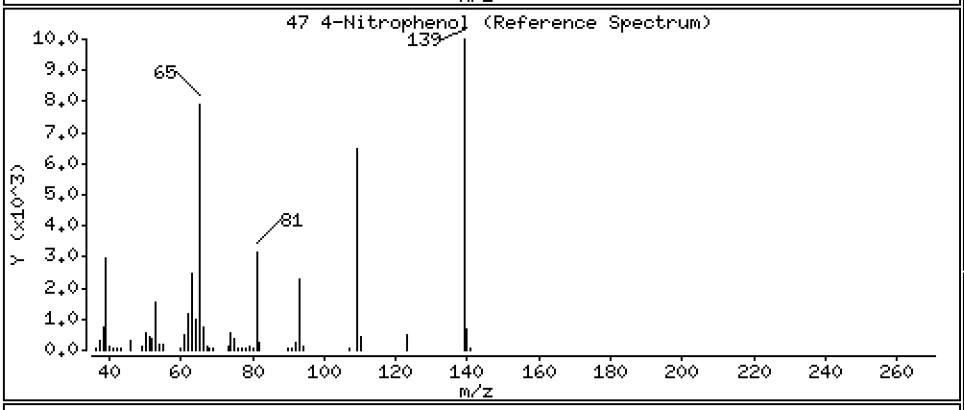
Column diameter: 0.25

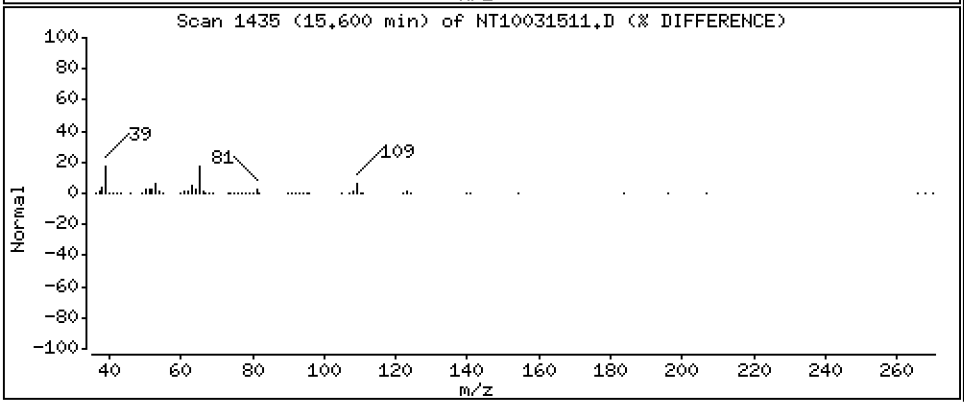
47 4-Nitrophenol

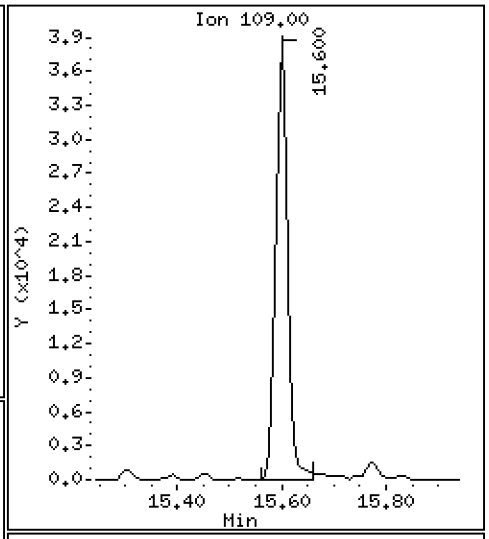
Concentration: 3.966 ug/mL

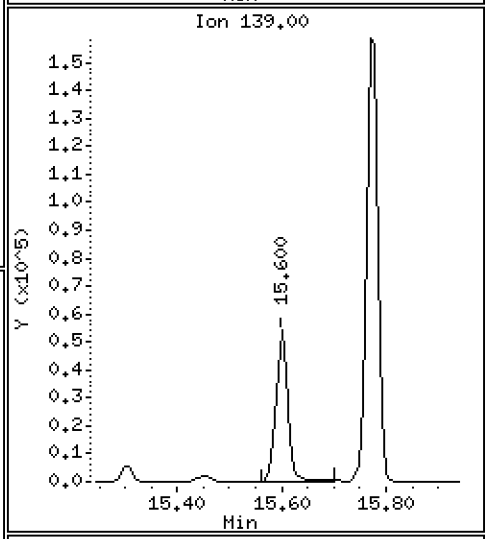


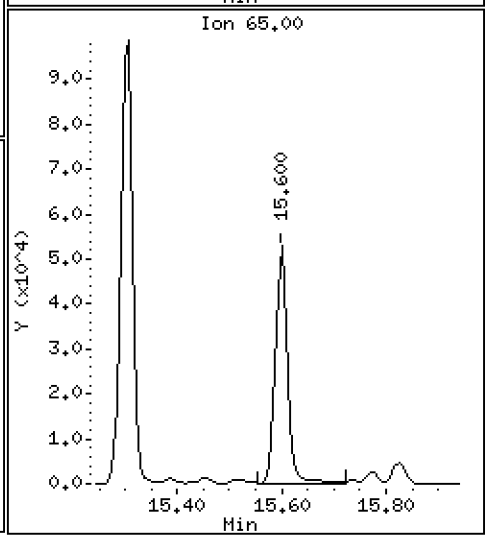












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

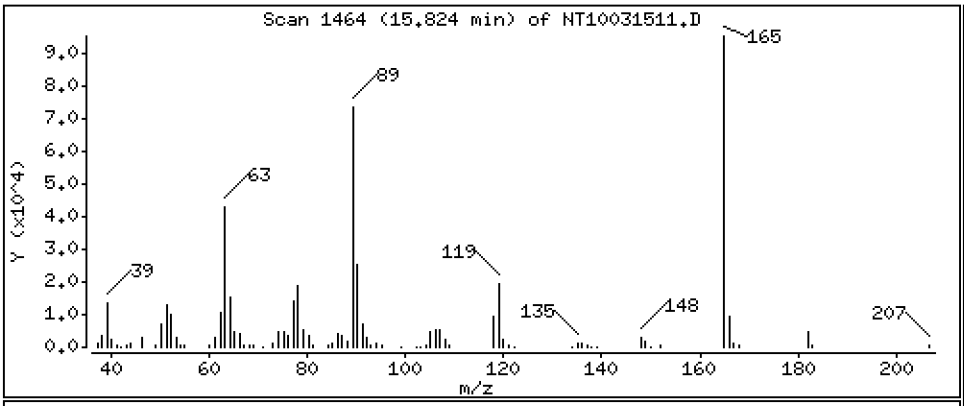
Operator: VTS

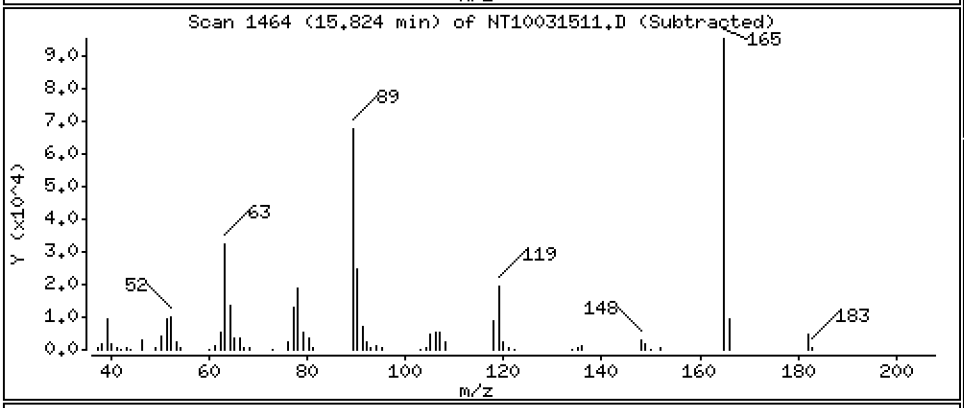
Column phase: ZB-5msi

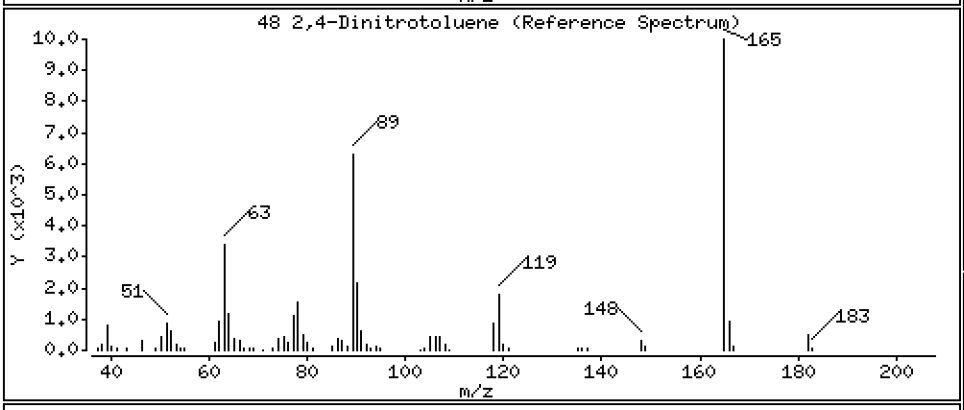
Column diameter: 0.25

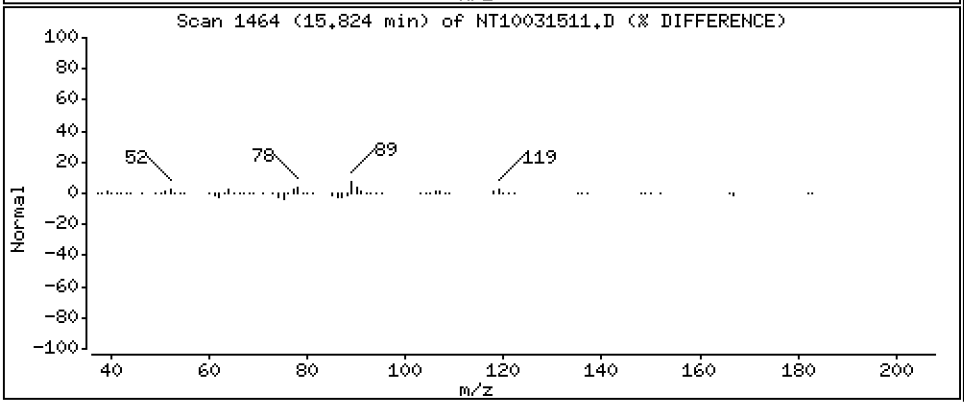
48 2,4-Dinitrotoluene

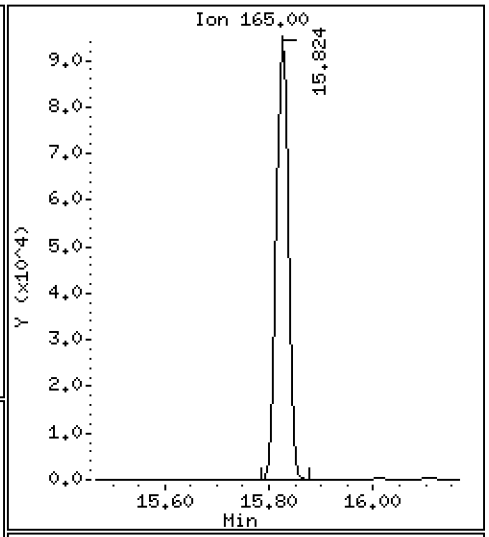
Concentration: 4.510 ug/mL

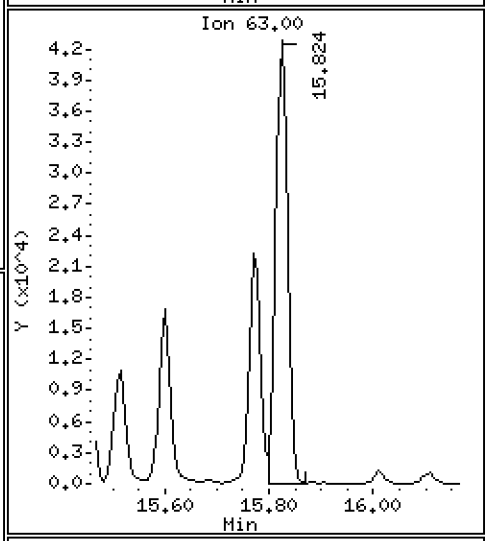


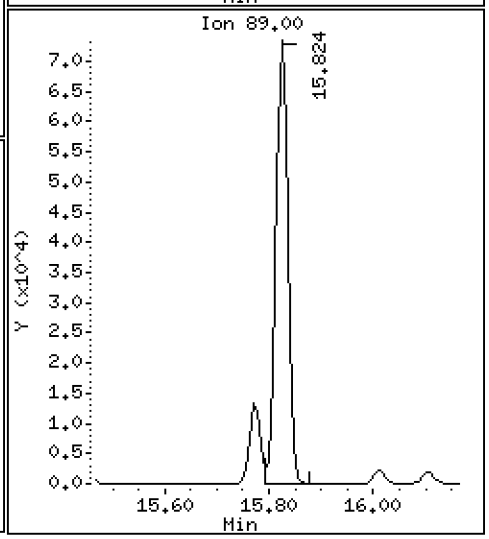












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

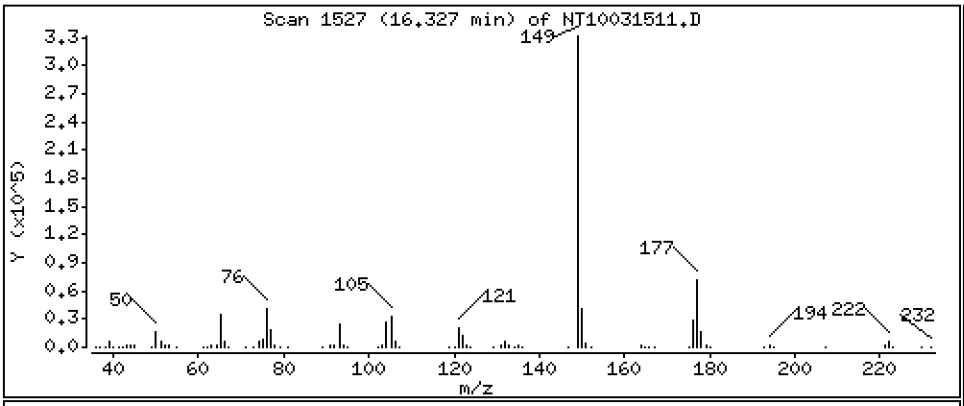
Operator: VTS

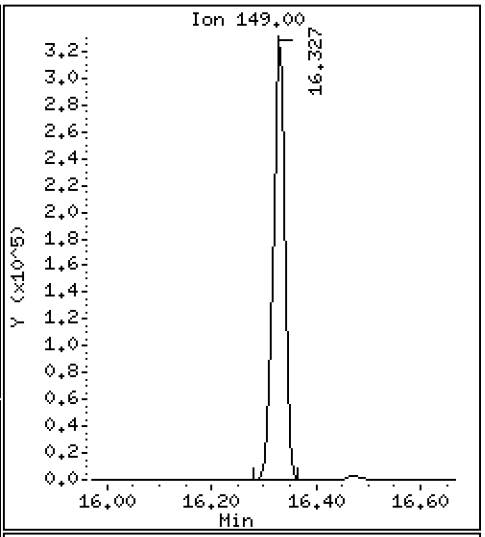
Column phase: ZB-5msi

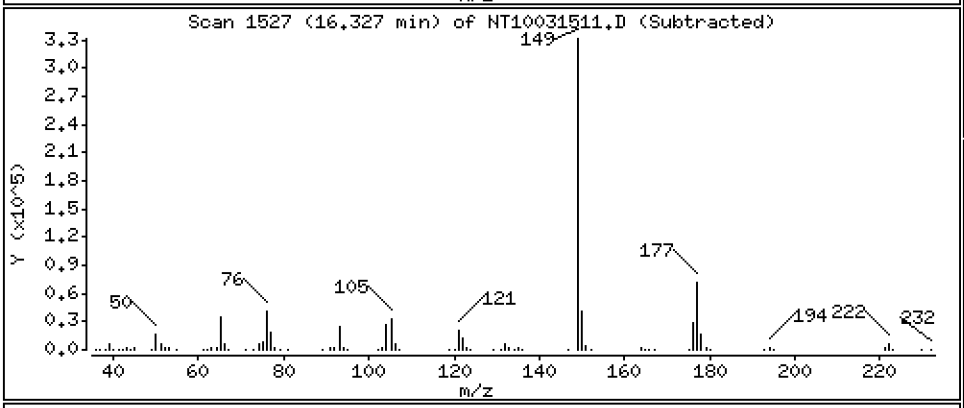
Column diameter: 0.25

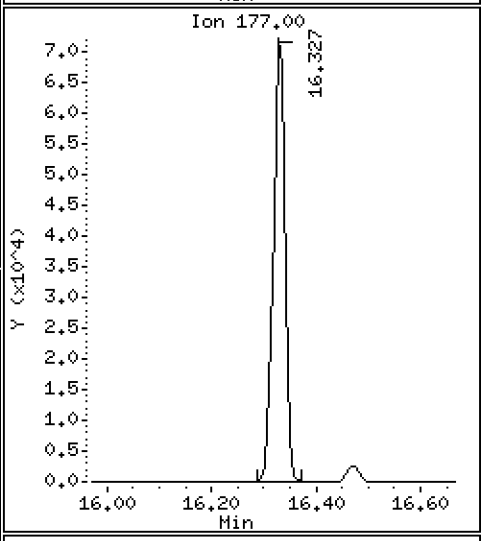
50 Diethylphthalate

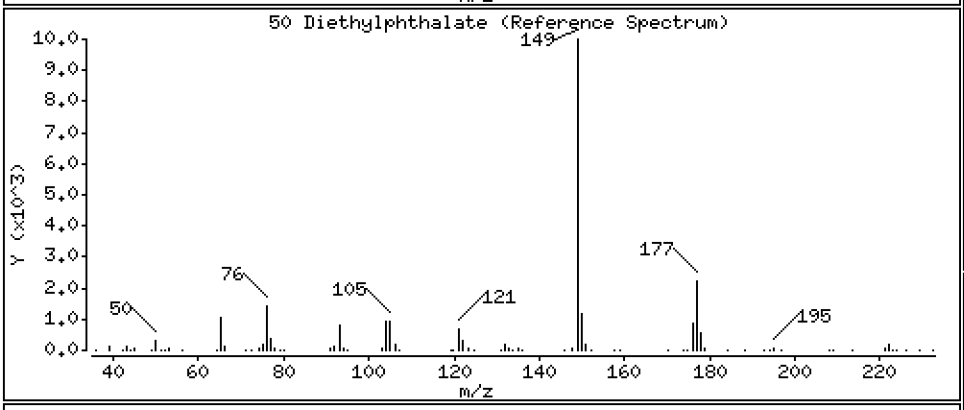
Concentration: 5.209 ug/mL

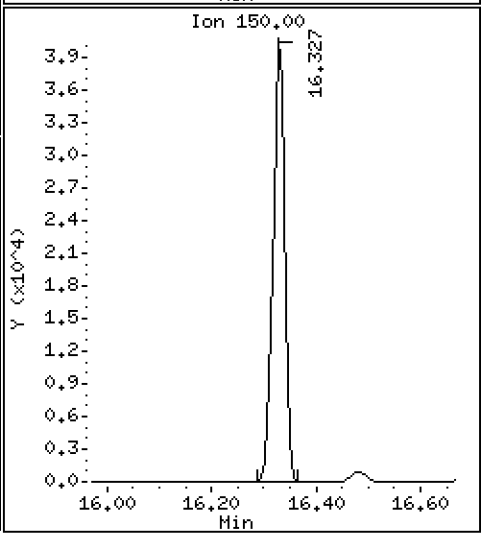


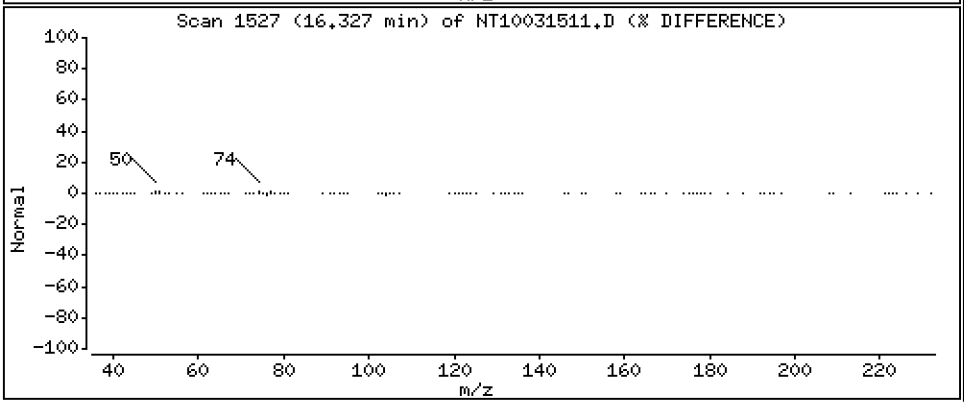












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

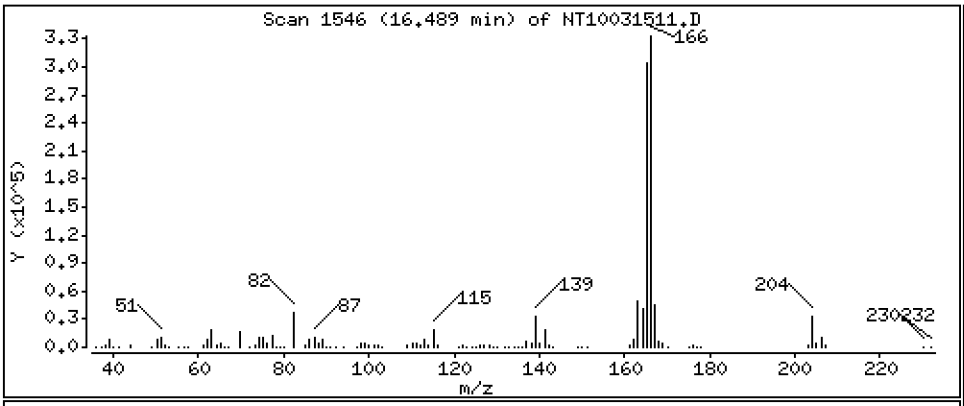
Operator: VTS

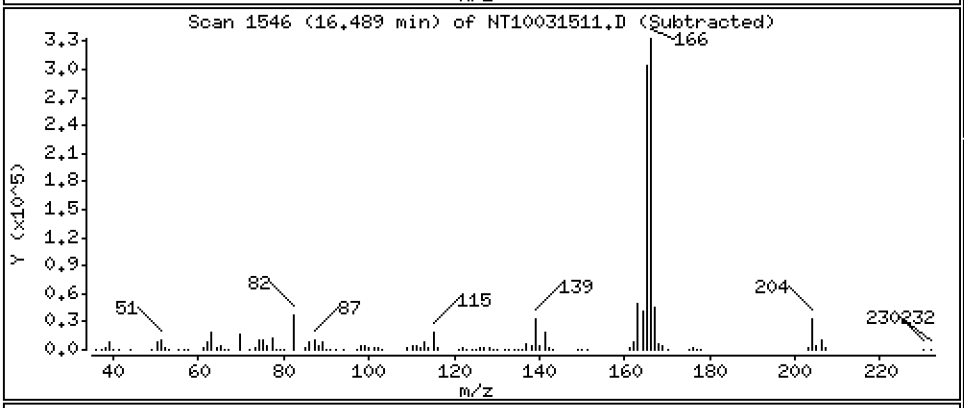
Column phase: ZB-5msi

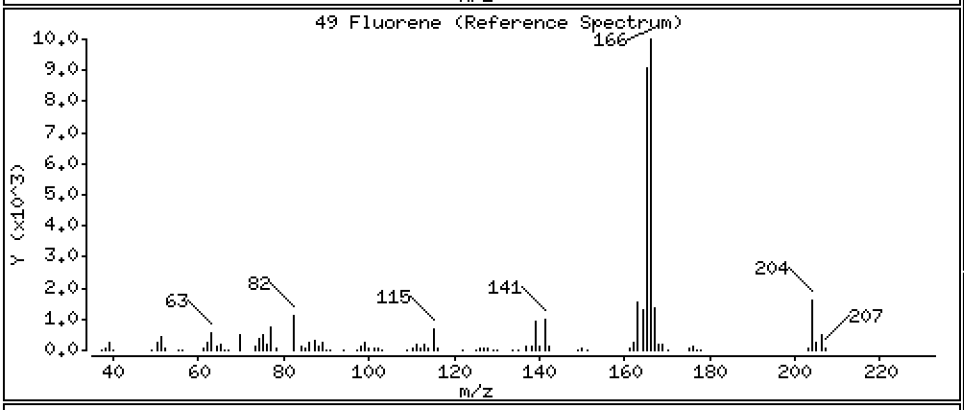
Column diameter: 0.25

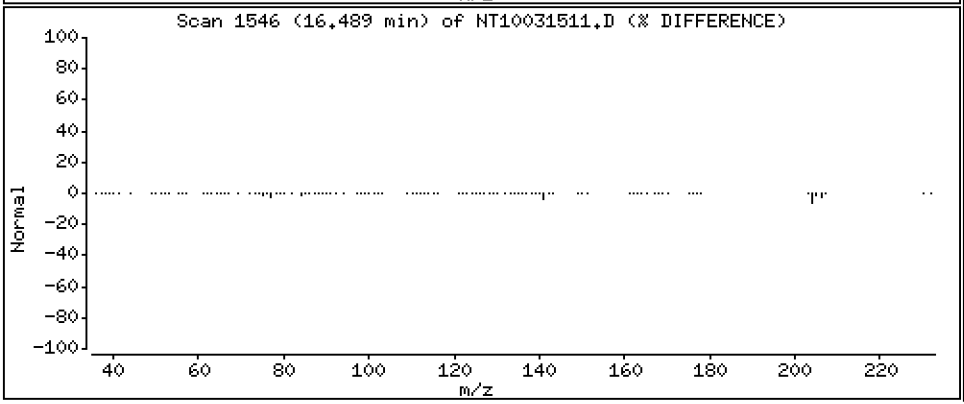
49 Fluorene

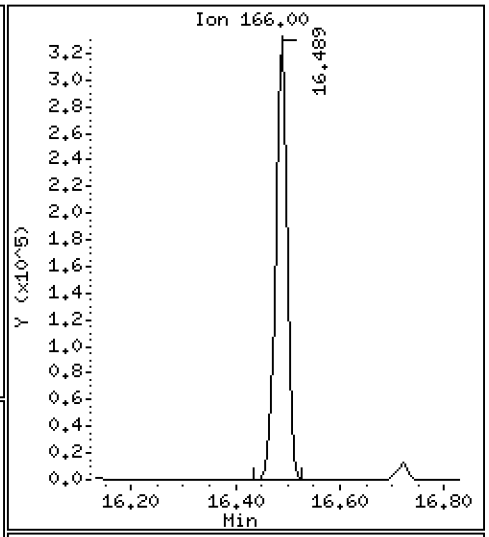
Concentration: 4.708 ug/mL

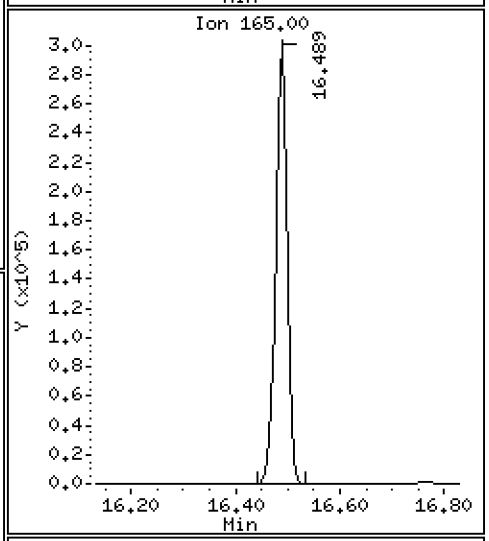


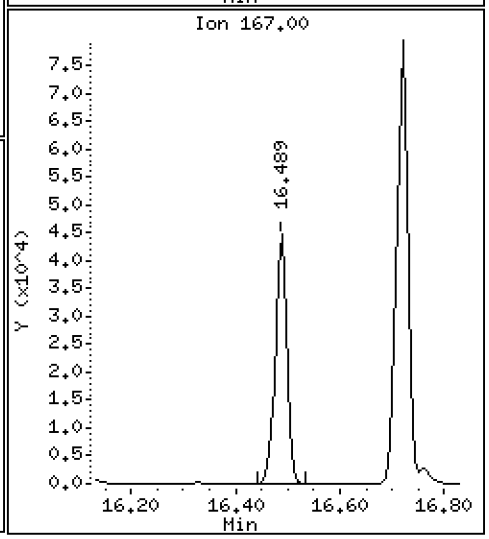












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

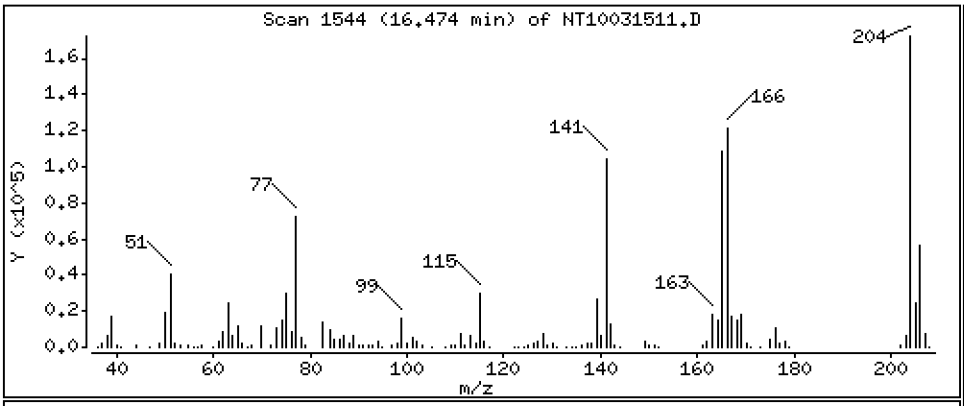
Operator: VTS

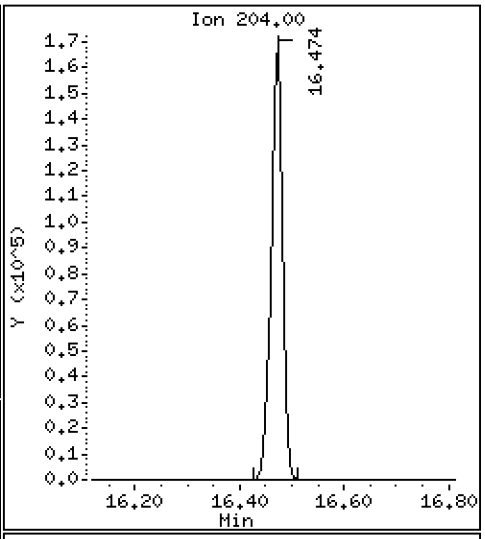
Column phase: ZB-5msi

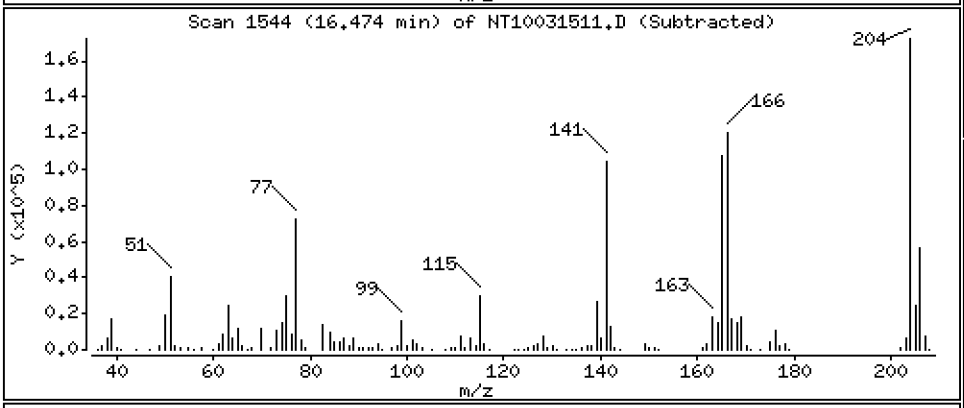
Column diameter: 0.25

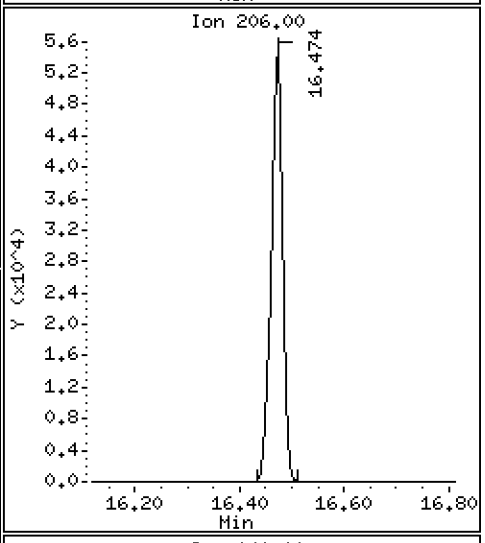
51 4-Chlorophenyl-phenylether

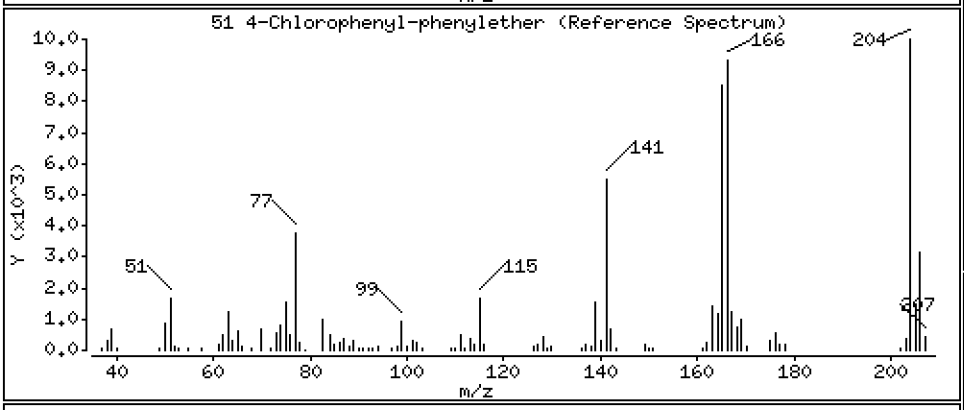
Concentration: 4.993 ug/mL

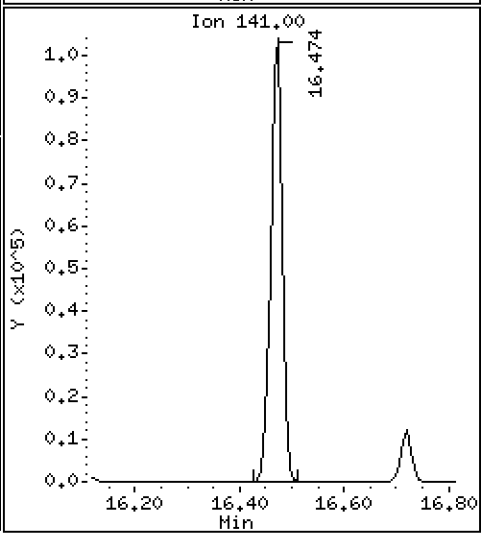


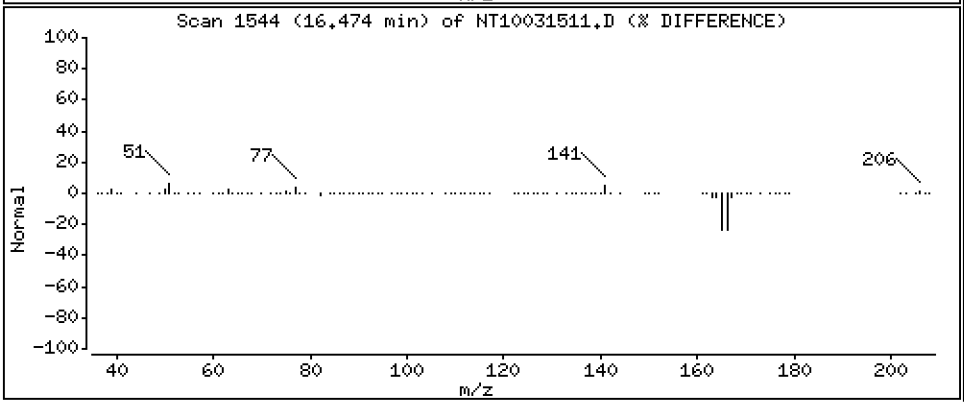












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

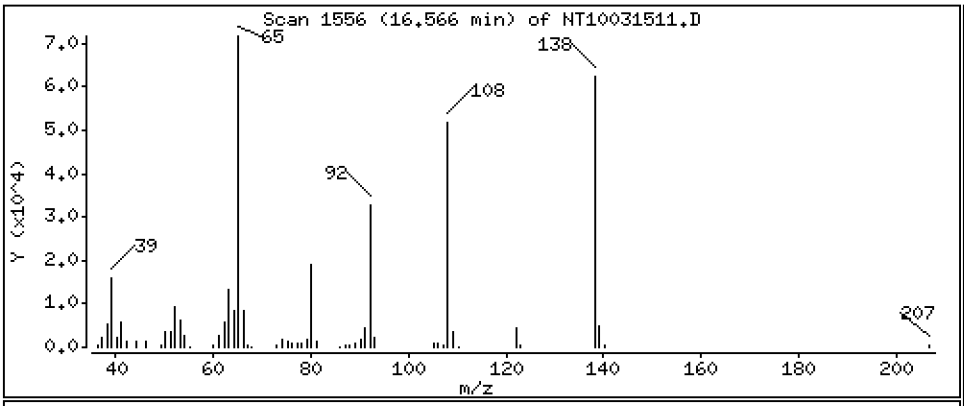
Operator: VTS

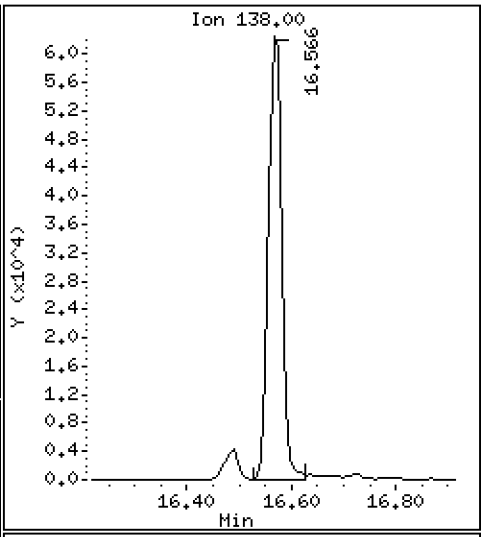
Column phase: ZB-5msi

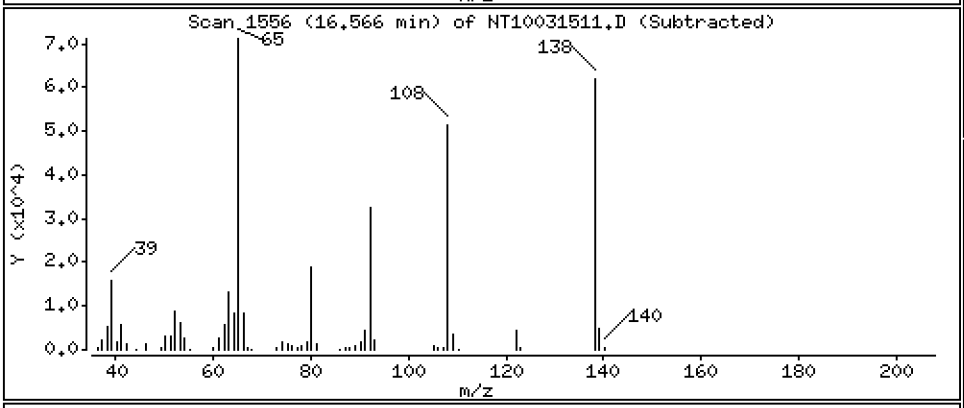
Column diameter: 0.25

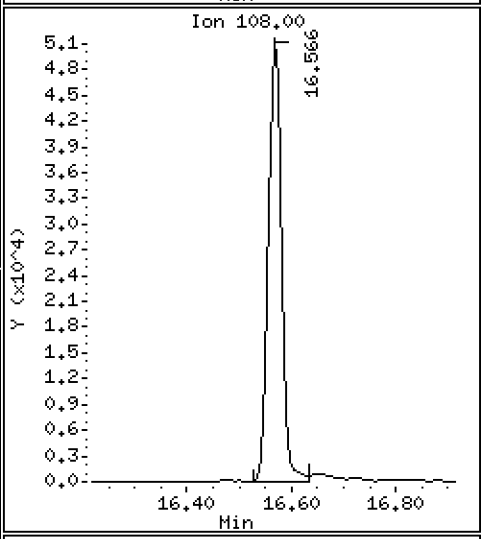
52 4-Nitroaniline

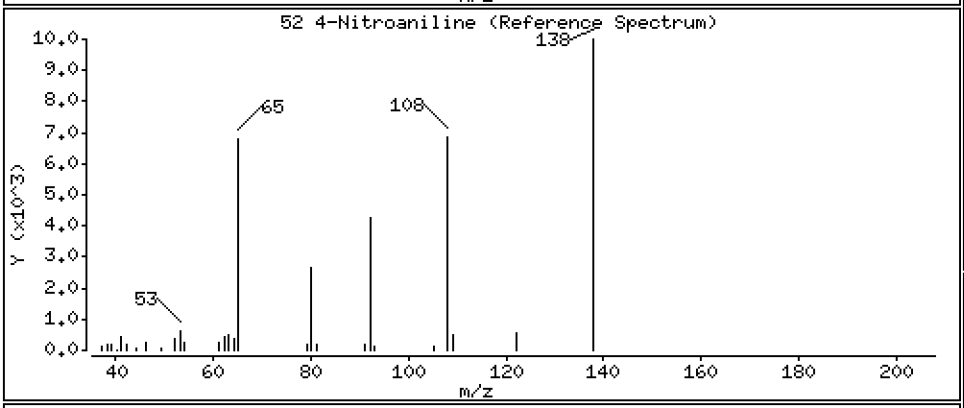
Concentration: 4.925 ug/mL

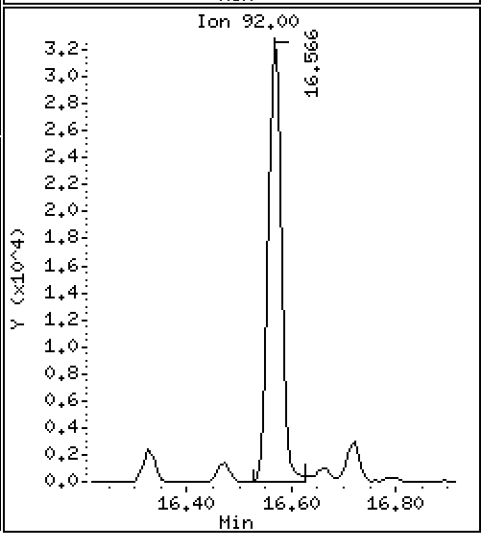


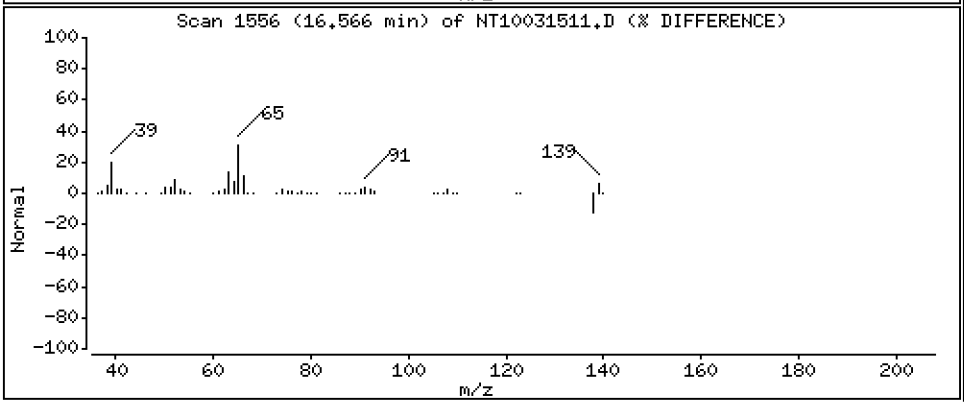












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

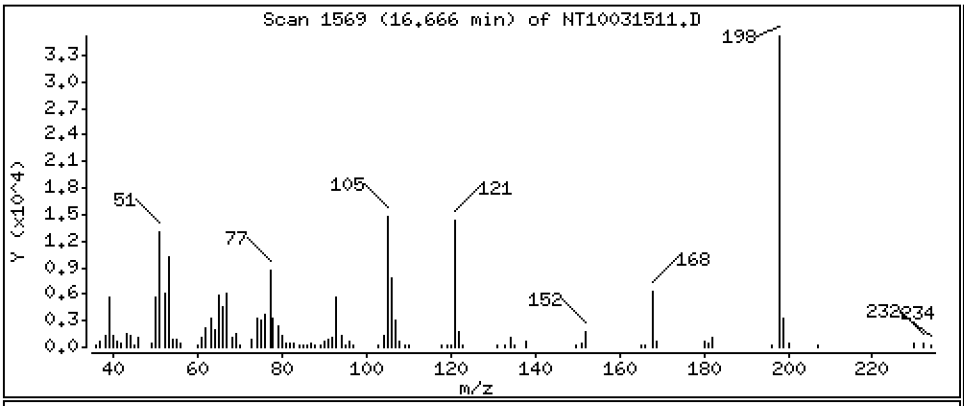
Operator: VTS

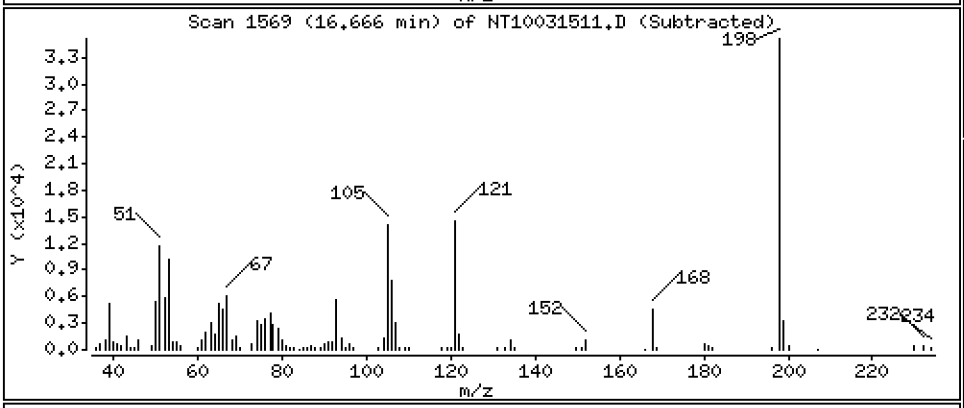
Column phase: ZB-5msi

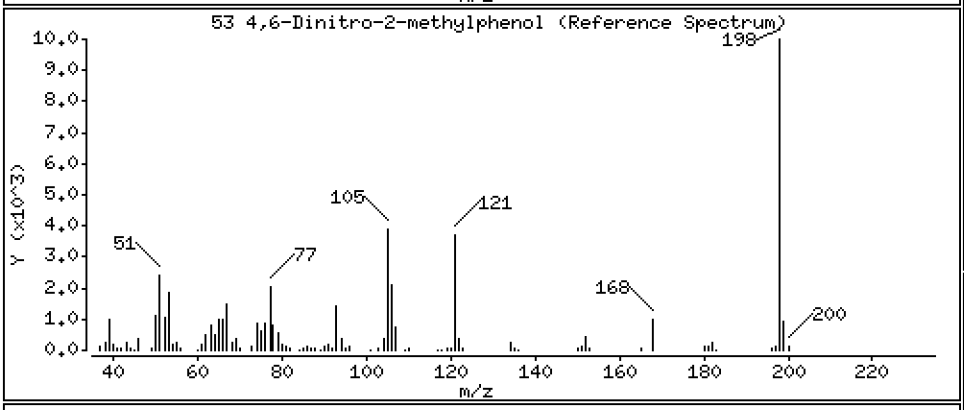
Column diameter: 0.25

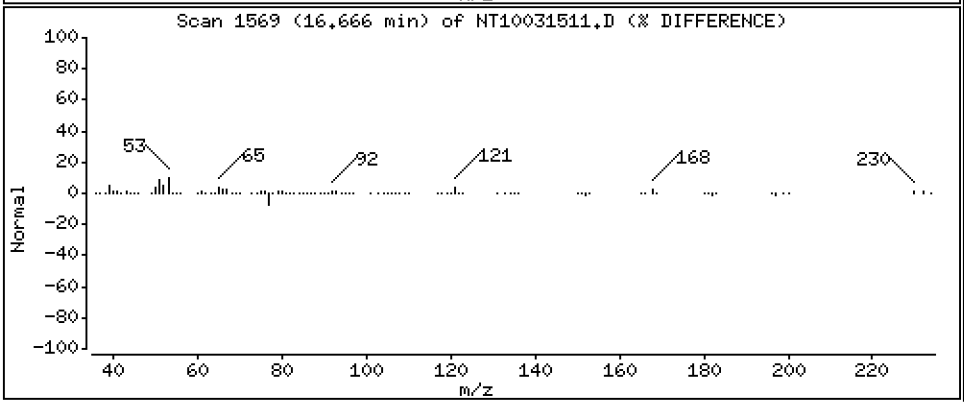
53 4,6-Dinitro-2-methylphenol

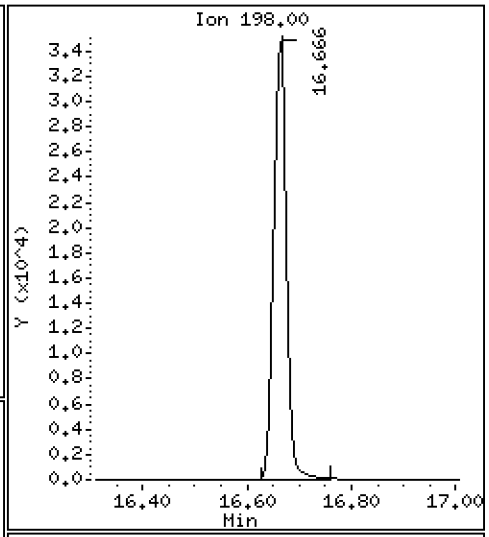
Concentration: 3.515 ug/mL

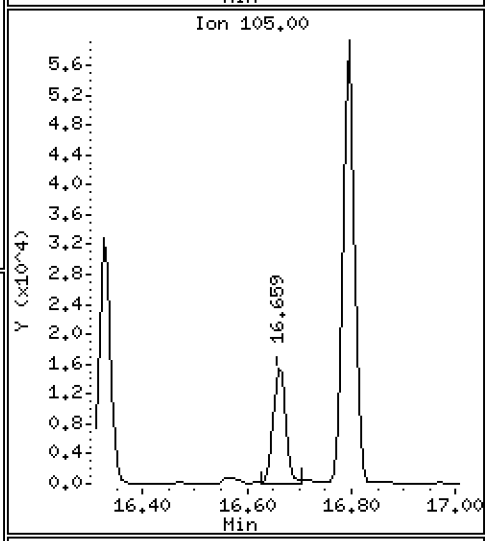


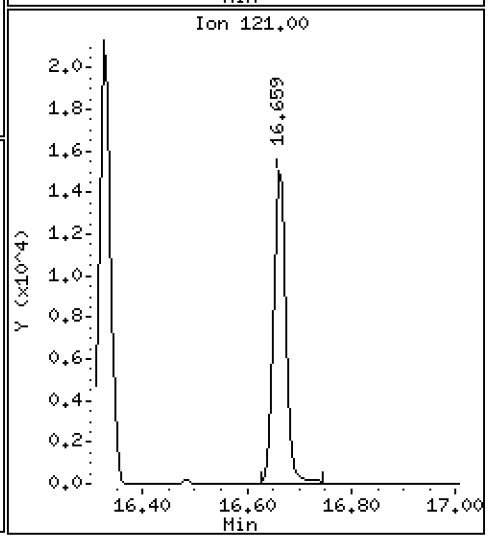












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

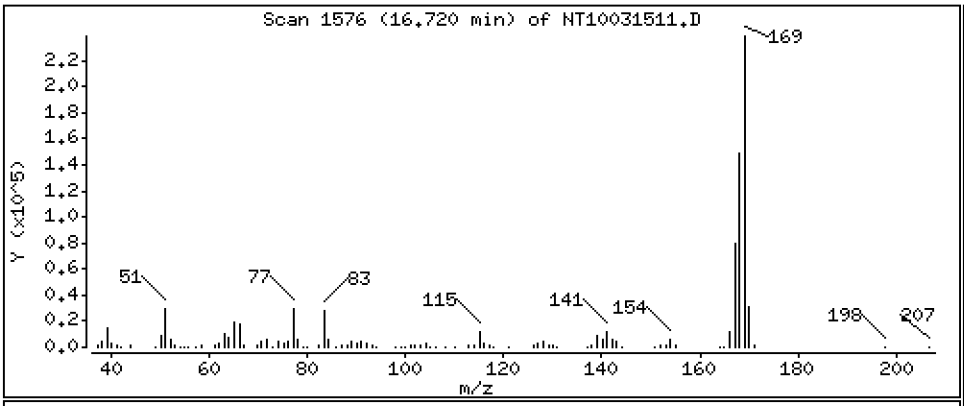
Operator: VTS

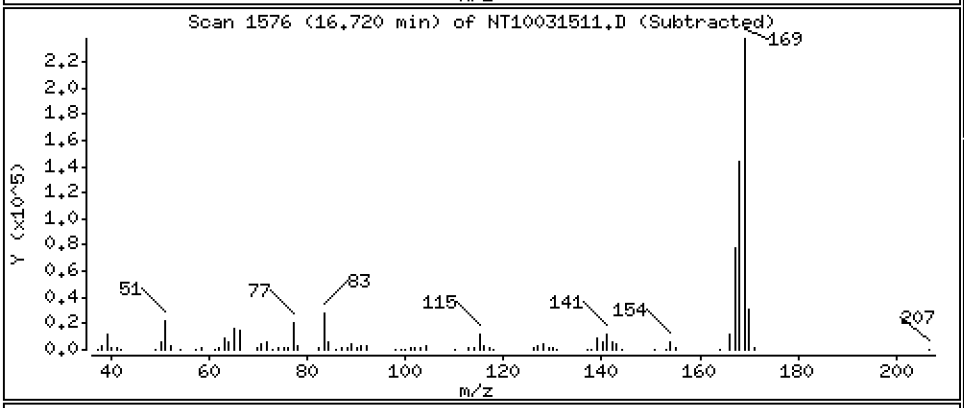
Column phase: ZB-5msi

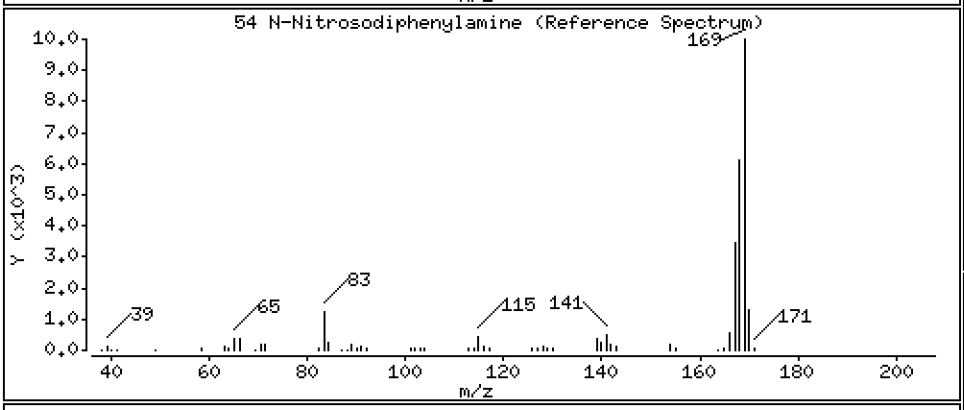
Column diameter: 0.25

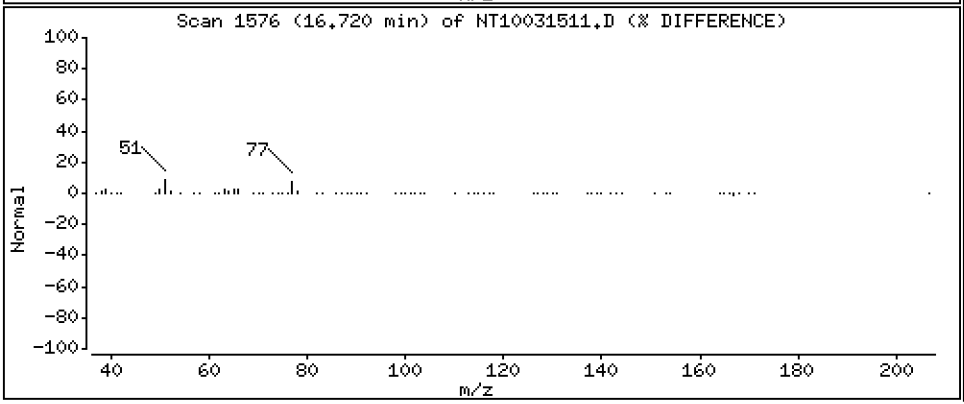
54 N-Nitrosodiphenylamine

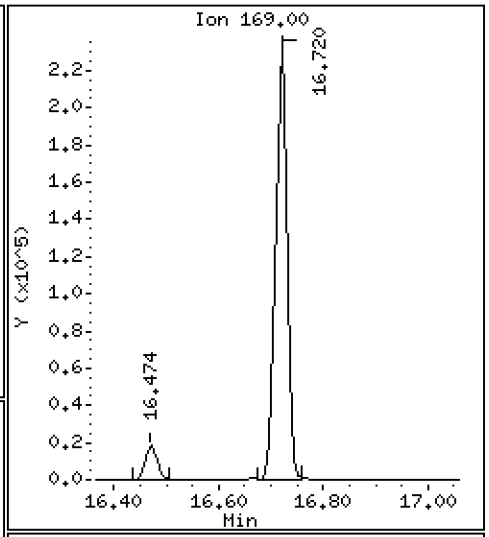
Concentration: 4.802 ug/mL

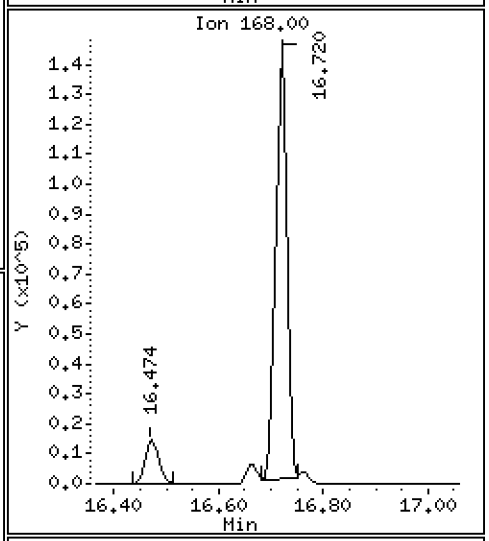


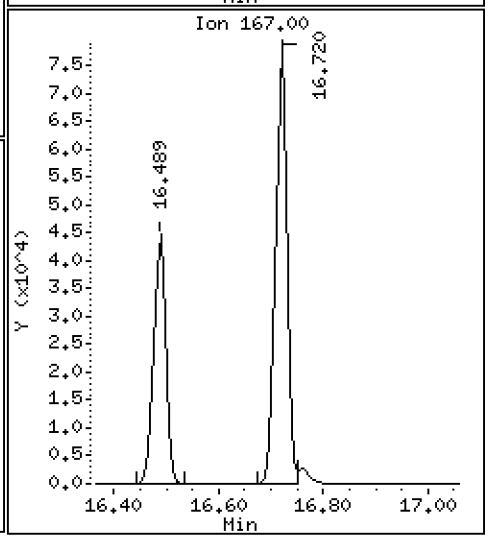












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

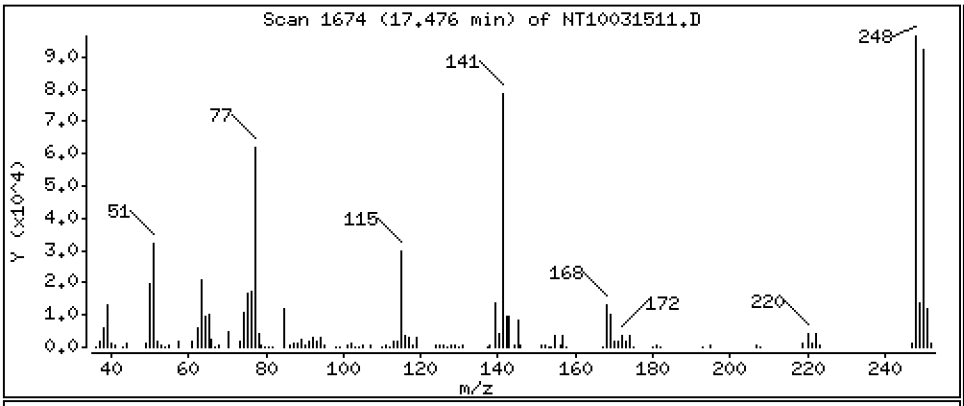
Operator: VTS

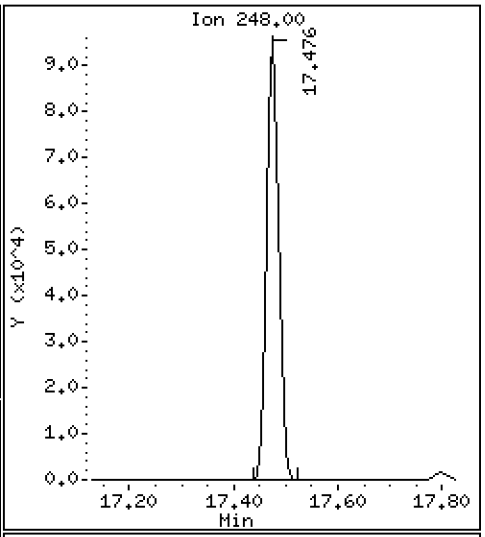
Column phase: ZB-5msi

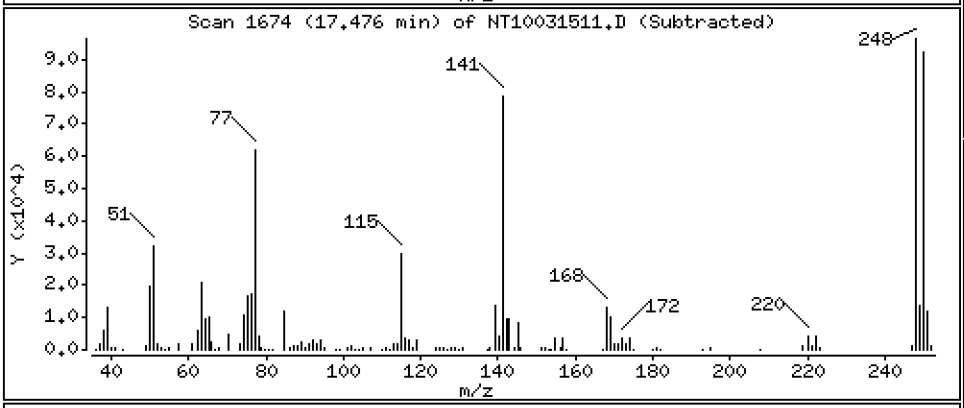
Column diameter: 0.25

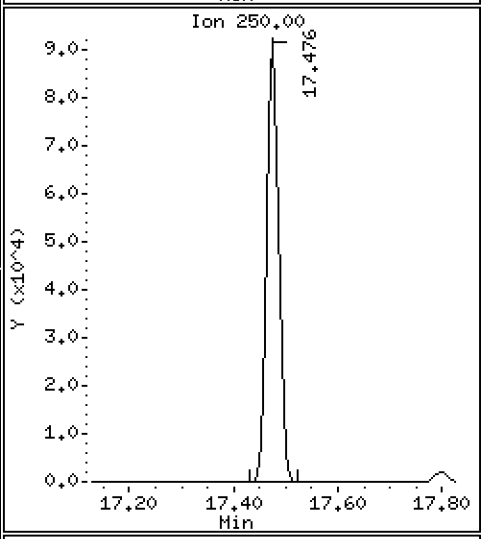
56 4-Bromophenyl-phenylether

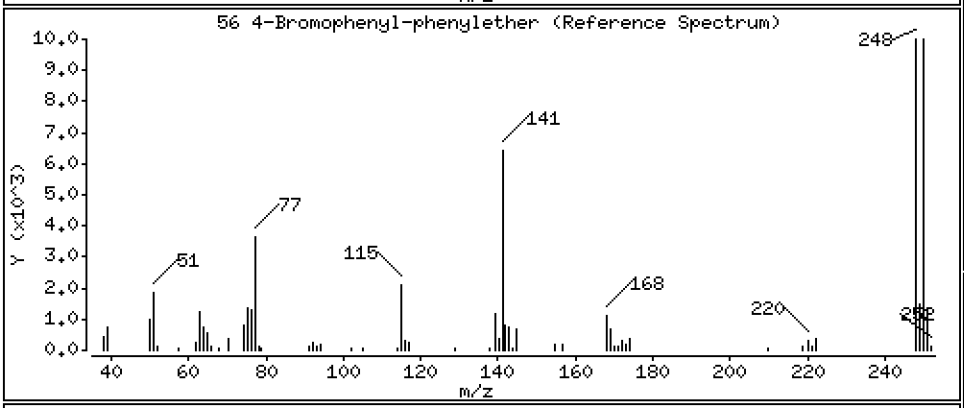
Concentration: 5.060 ug/mL

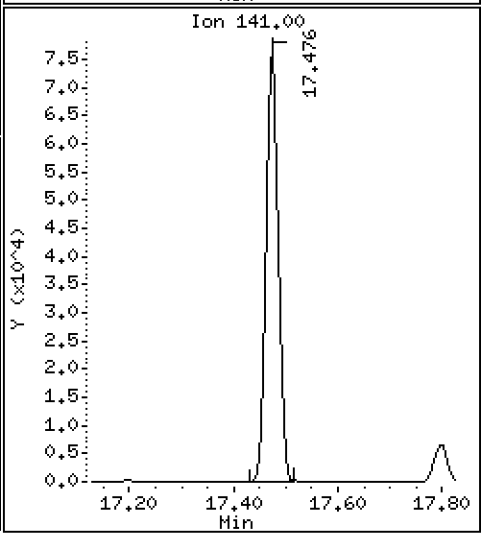


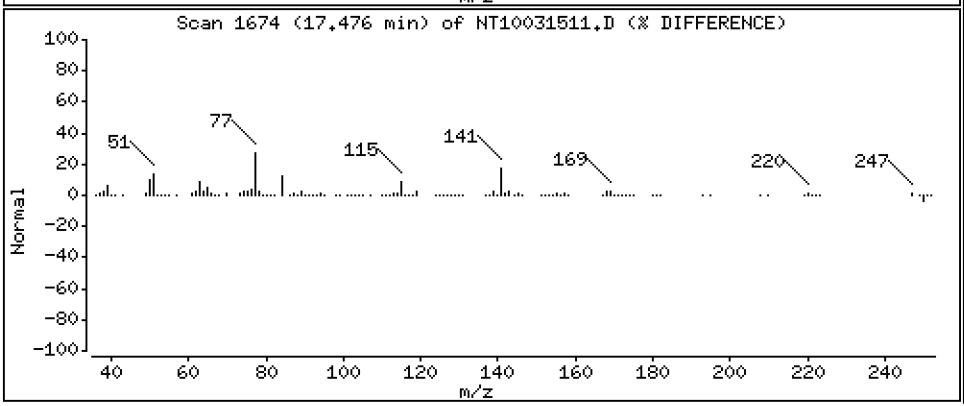












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

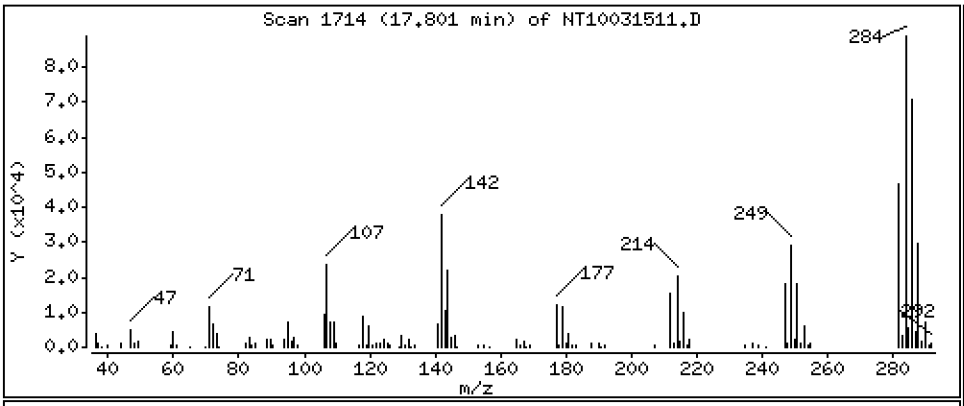
Operator: VTS

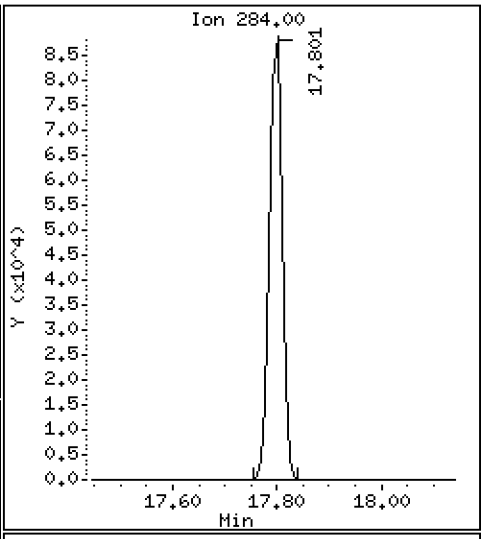
Column phase: ZB-5msi

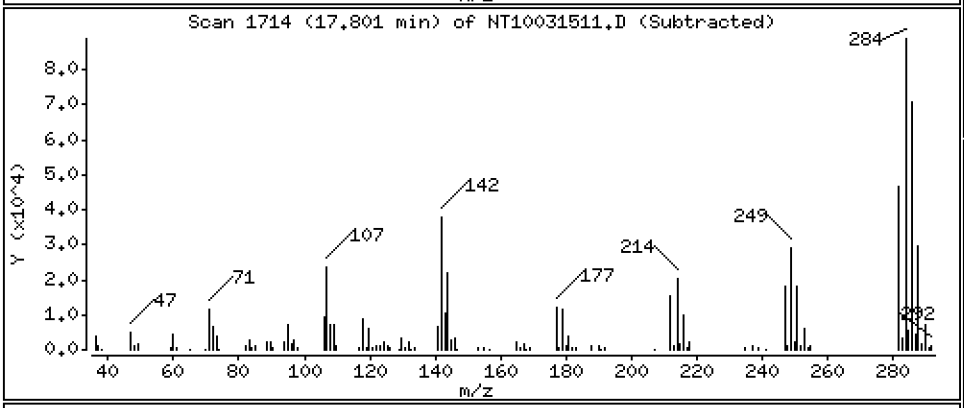
Column diameter: 0.25

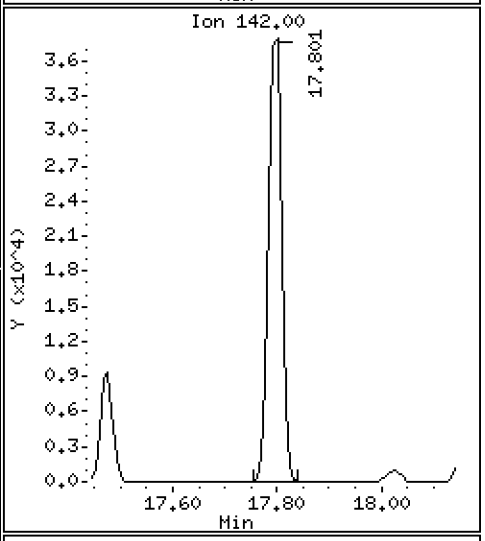
57 Hexachlorobenzene

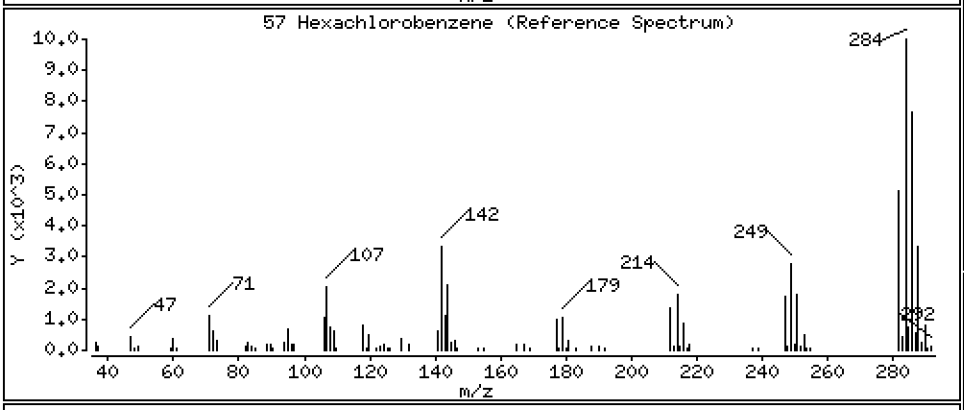
Concentration: 4.596 ug/mL

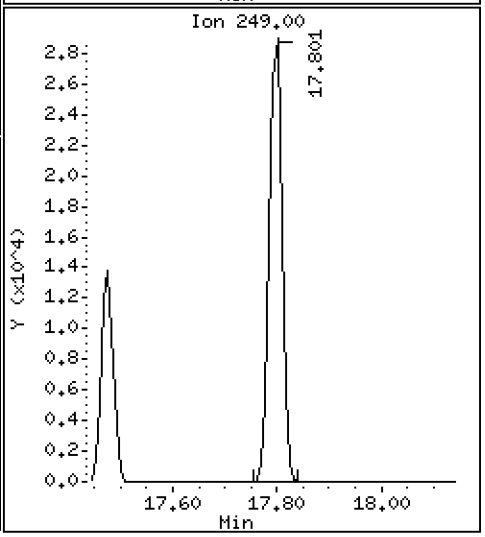


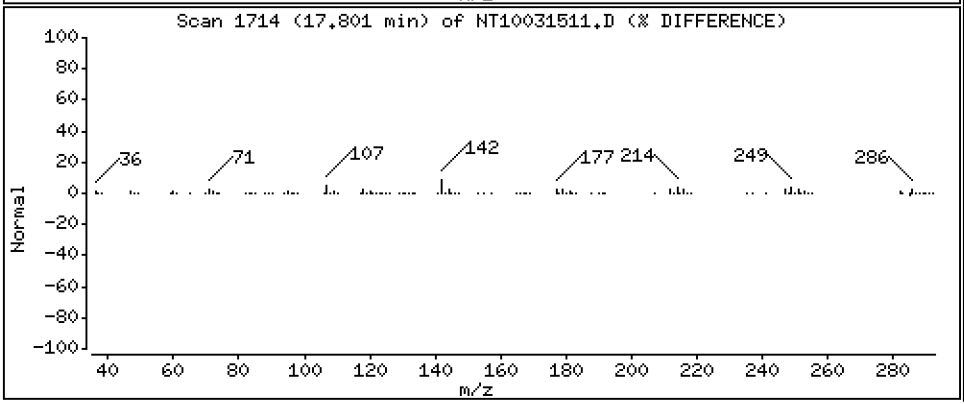












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

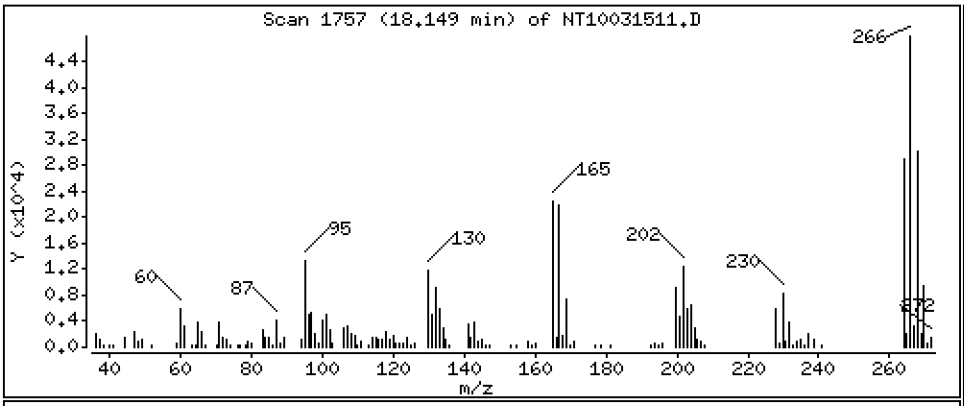
Operator: VTS

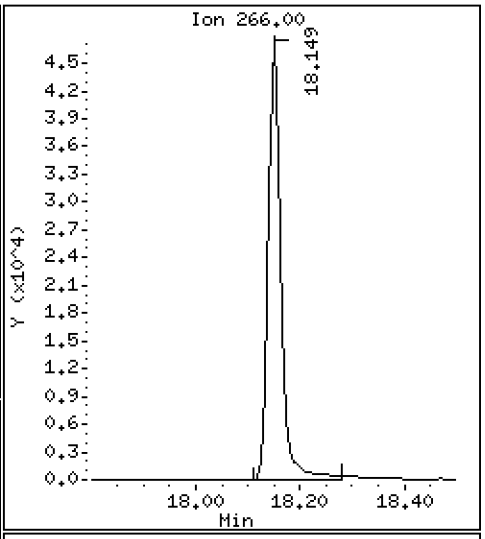
Column phase: ZB-5msi

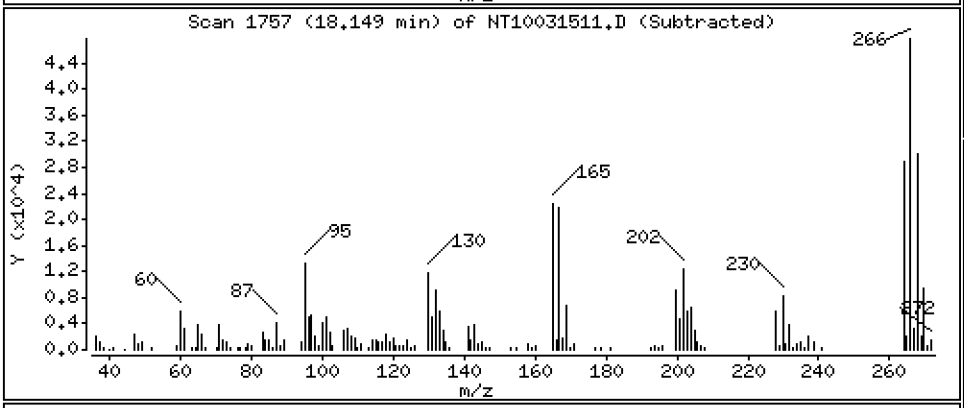
Column diameter: 0.25

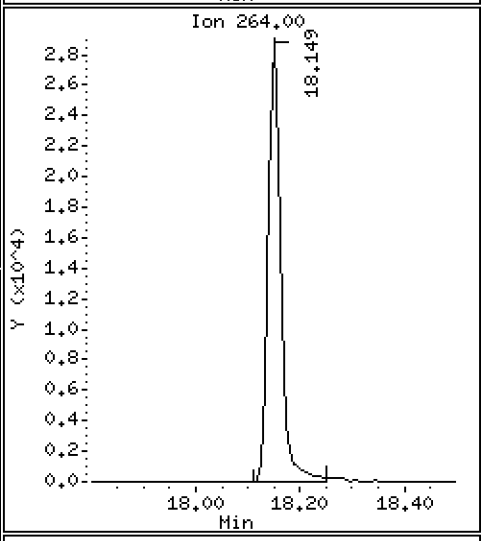
58 Pentachlorophenol

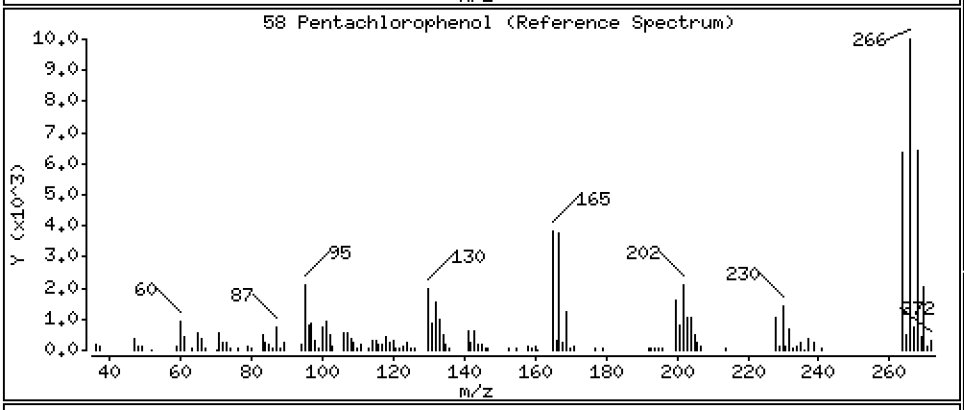
Concentration: 4.057 ug/mL

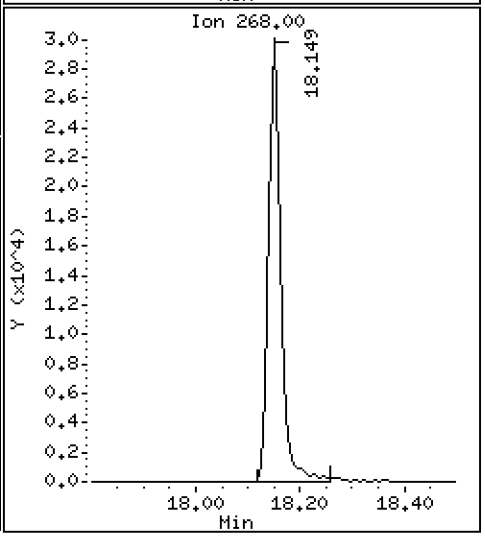


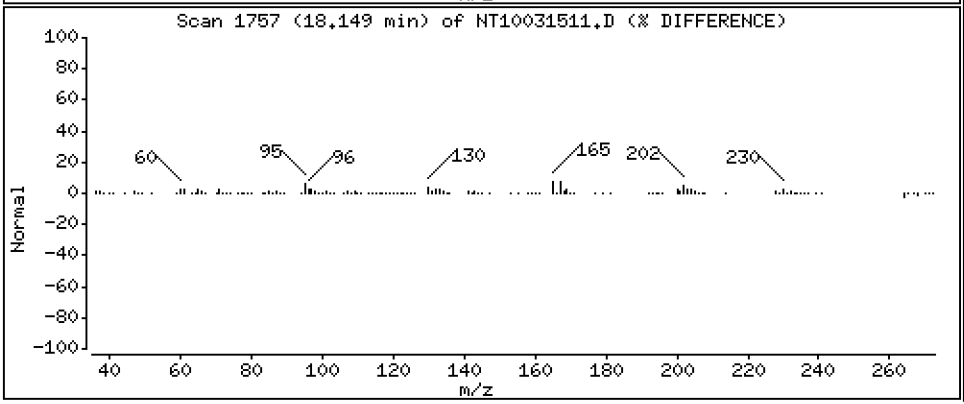












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

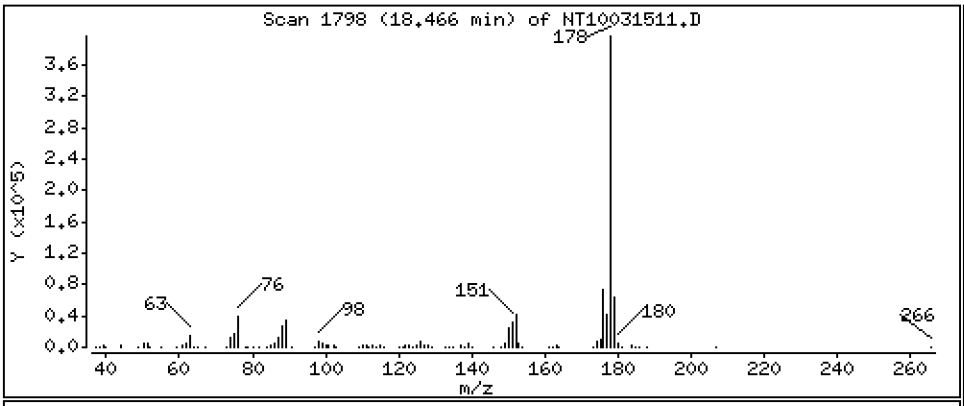
Operator: VTS

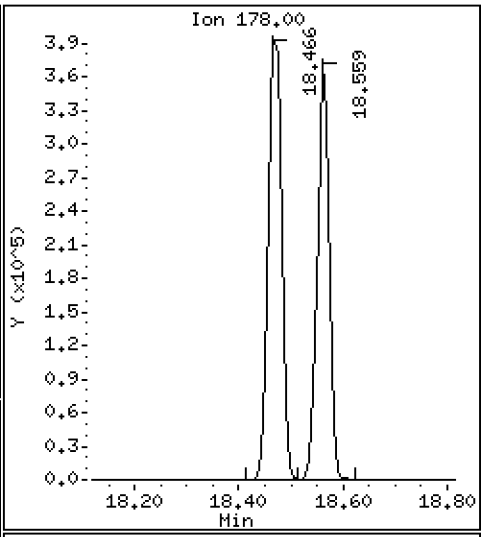
Column phase: ZB-5msi

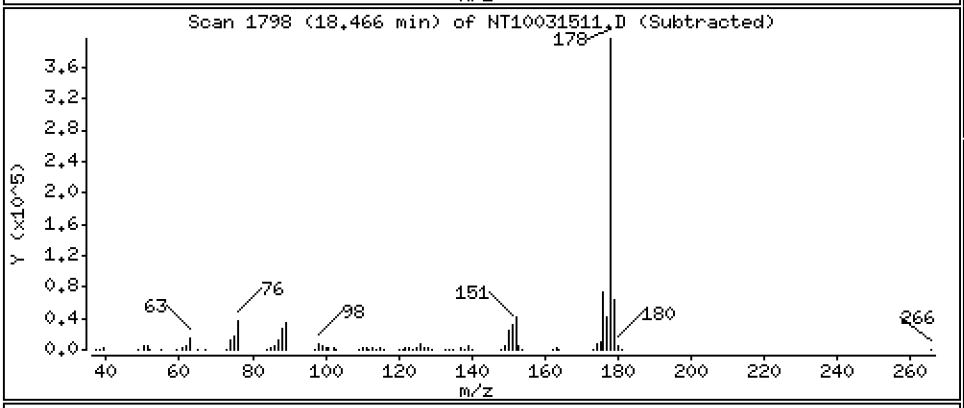
Column diameter: 0.25

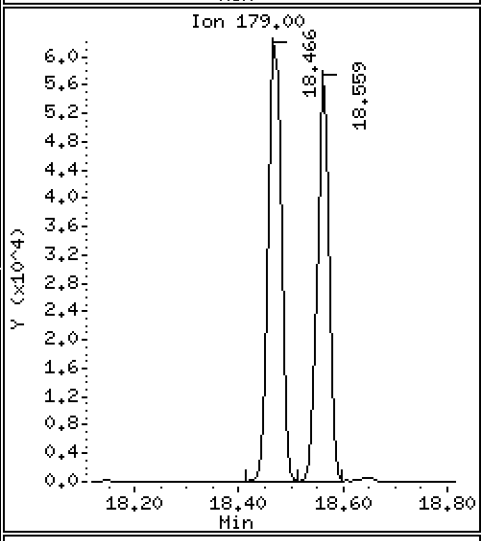
60 Phenanthrene

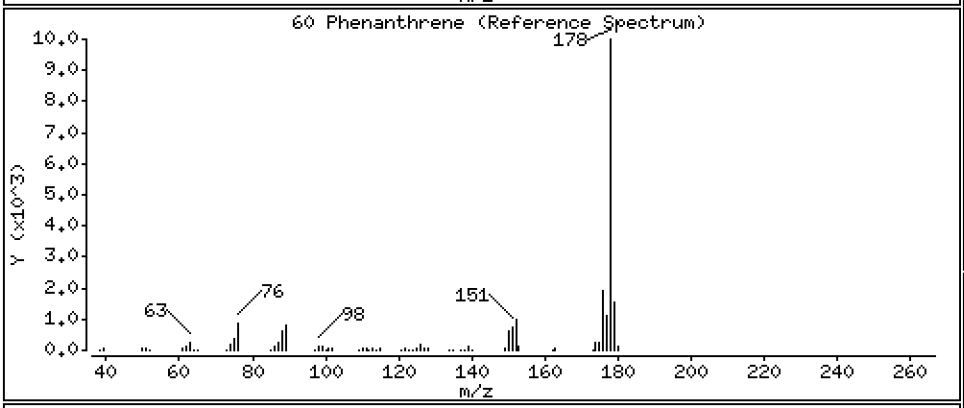
Concentration: 4.602 ug/mL

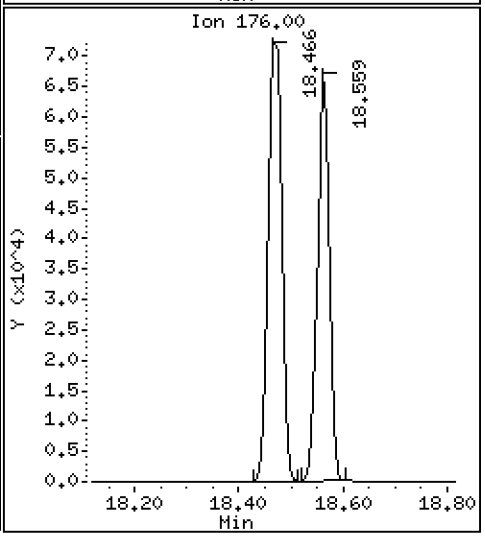


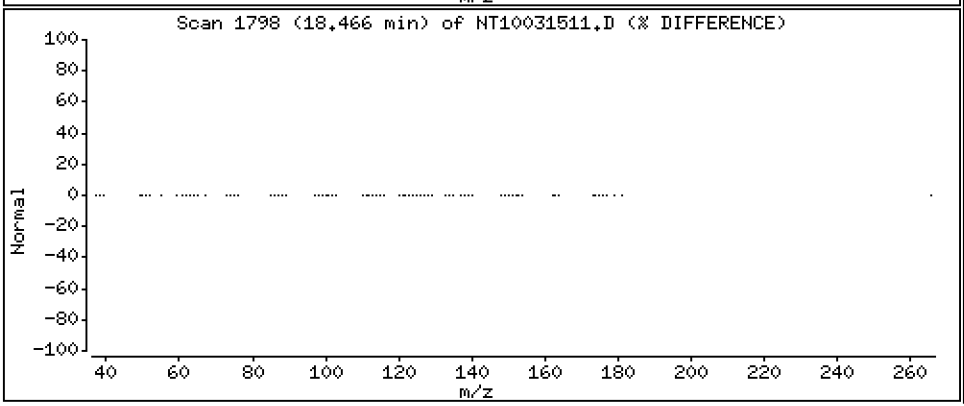












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

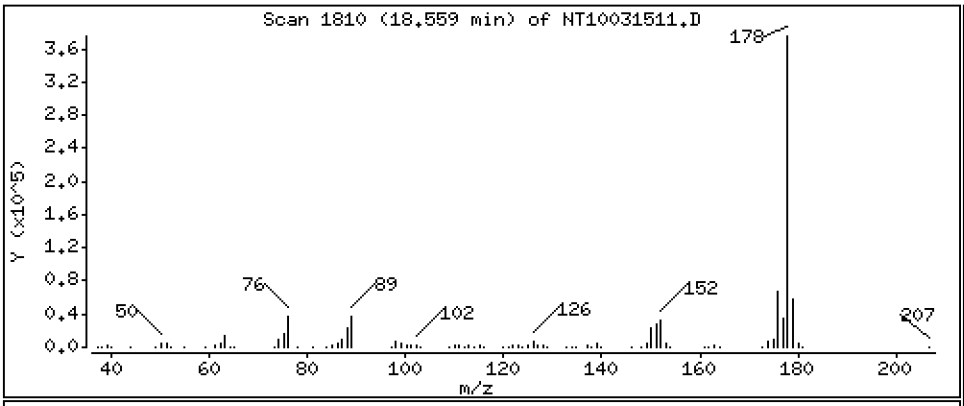
Operator: VTS

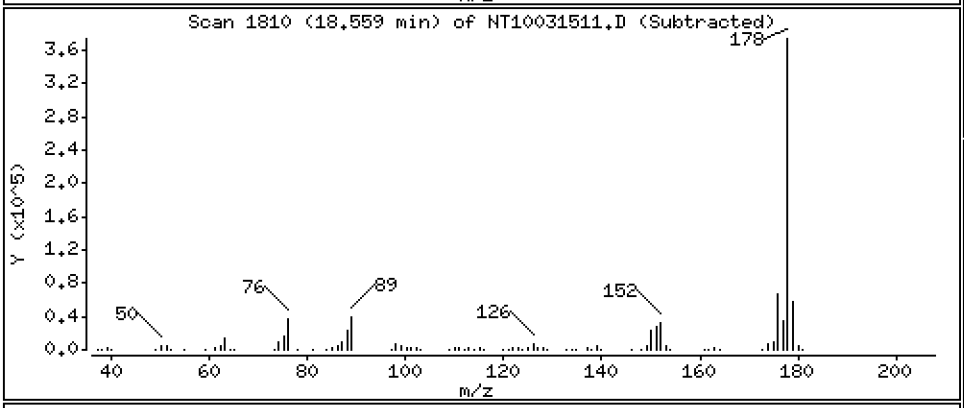
Column phase: ZB-5msi

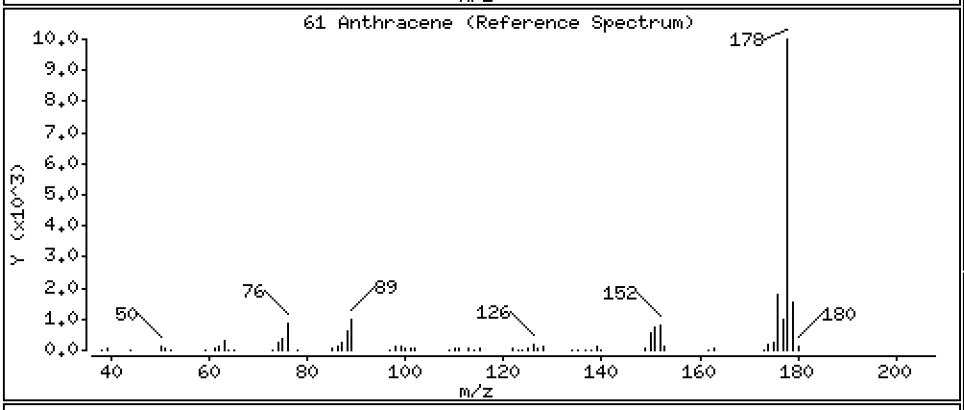
Column diameter: 0.25

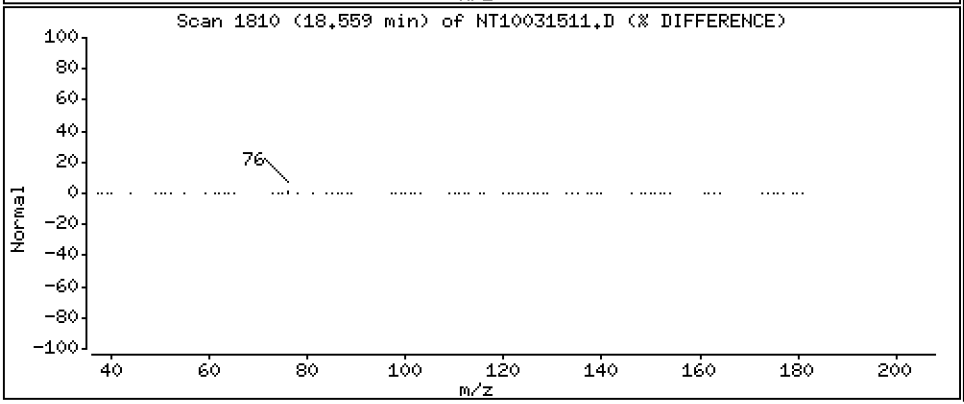
61 Anthracene

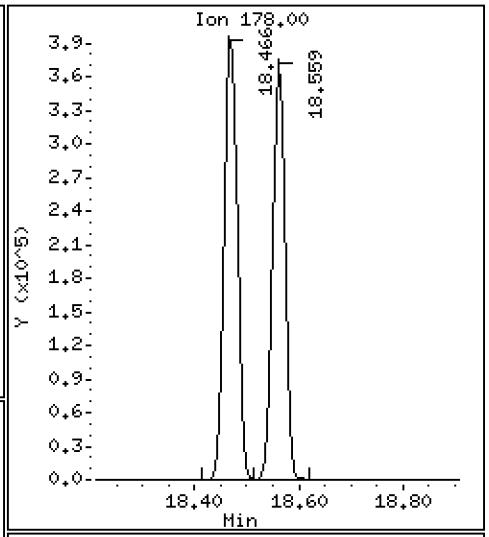
Concentration: 4.167 ug/mL

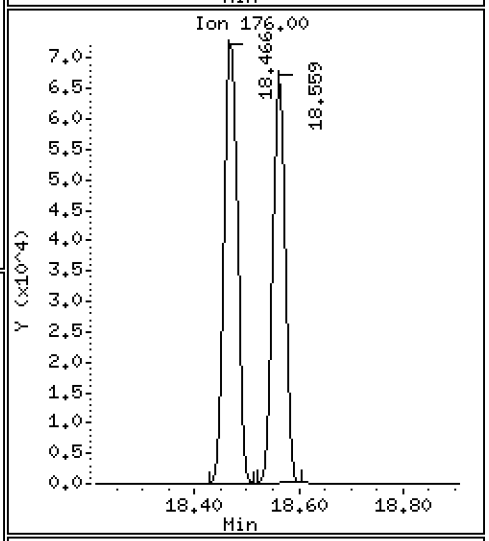


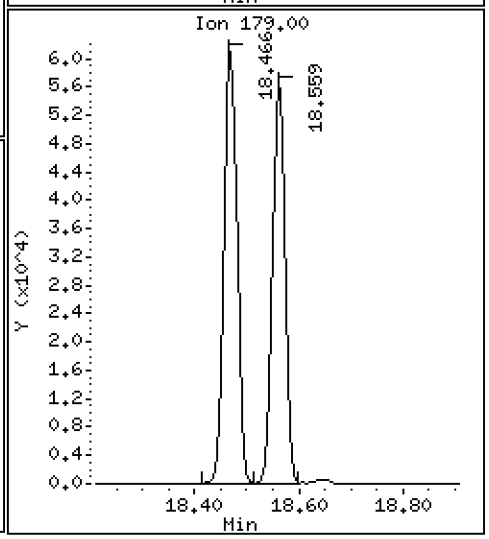












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

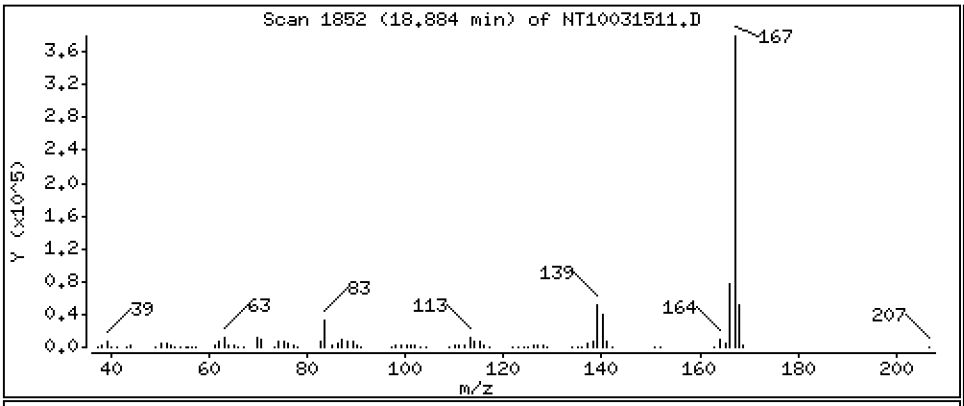
Operator: VTS

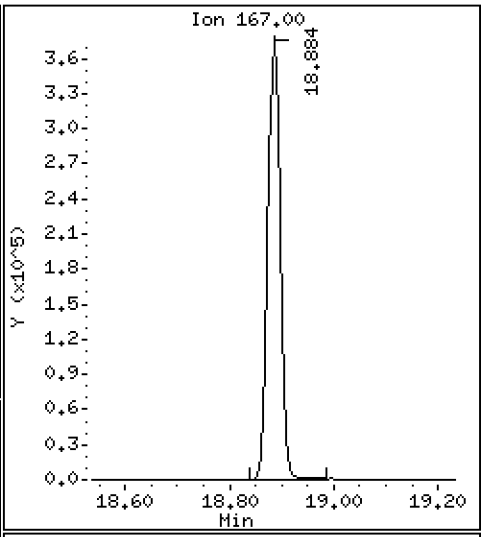
Column phase: ZB-5msi

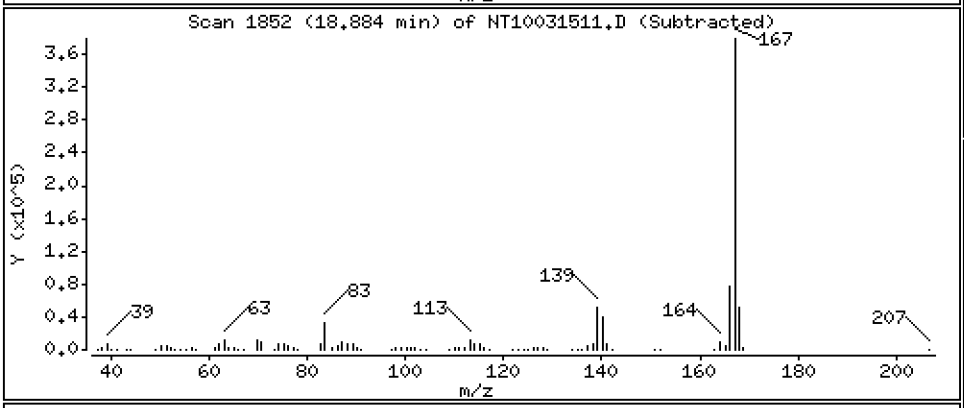
Column diameter: 0.25

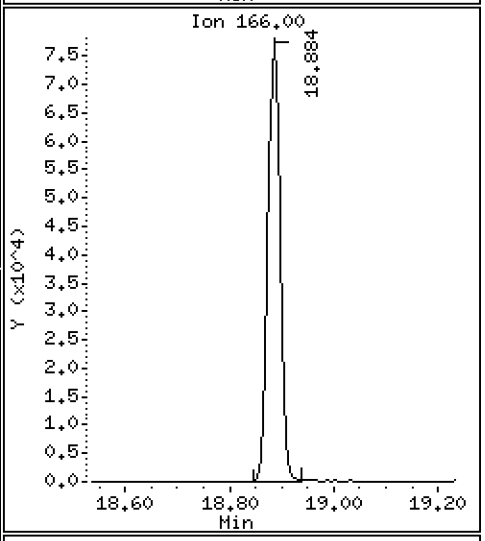
62 Carbazole

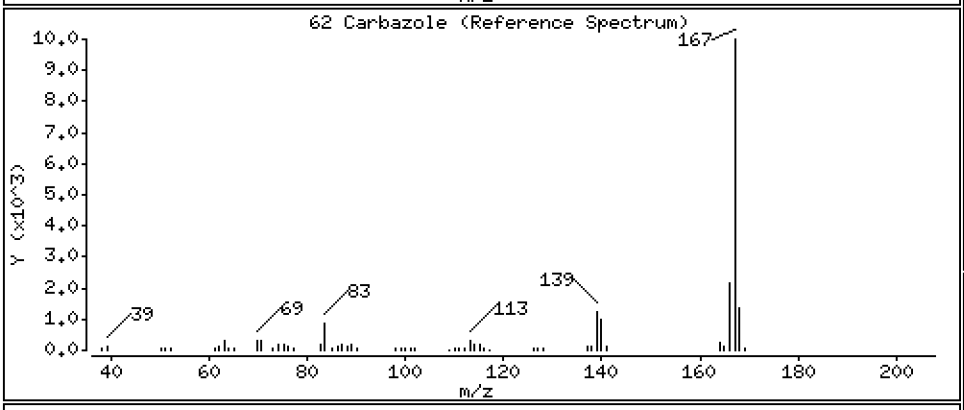
Concentration: 4.730 ug/mL

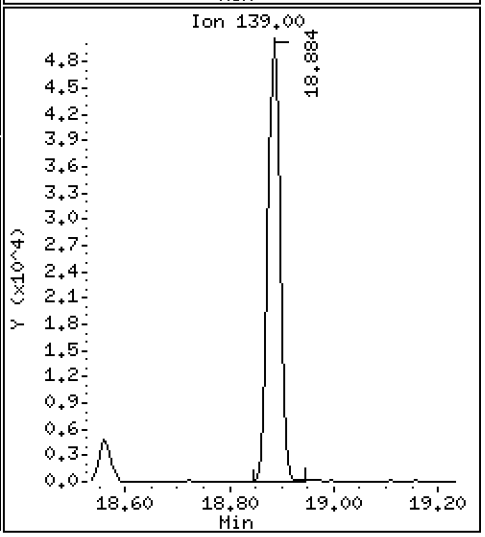


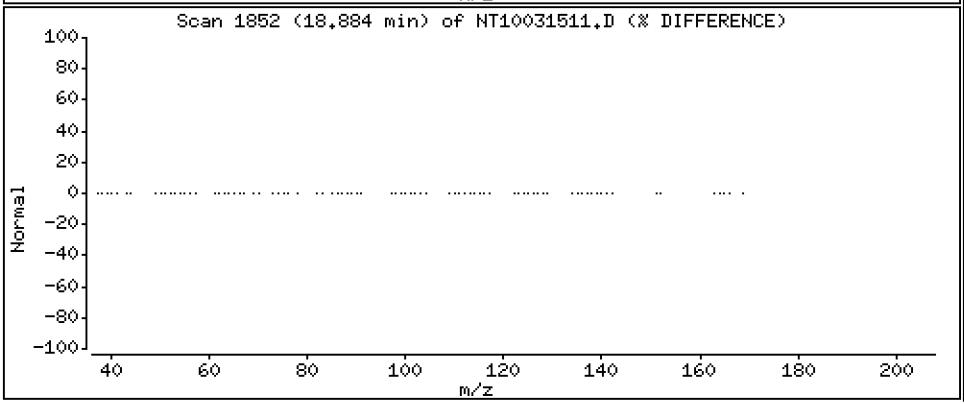












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

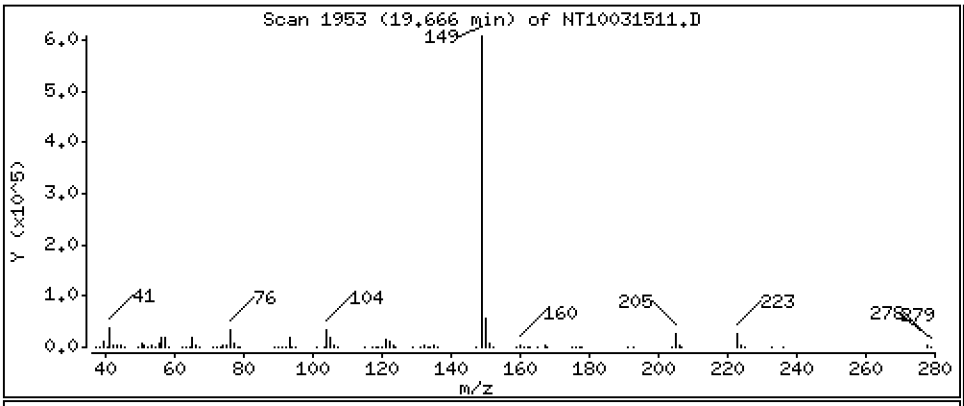
Operator: VTS

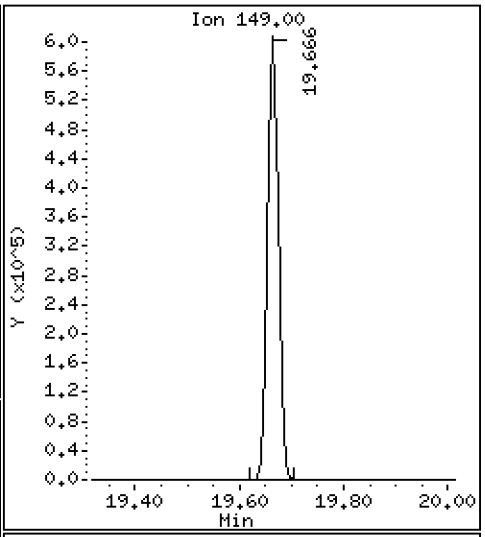
Column phase: ZB-5msi

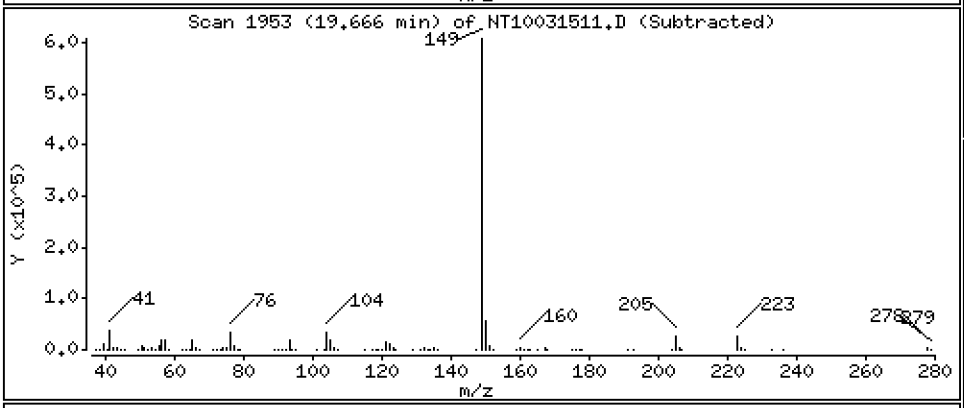
Column diameter: 0.25

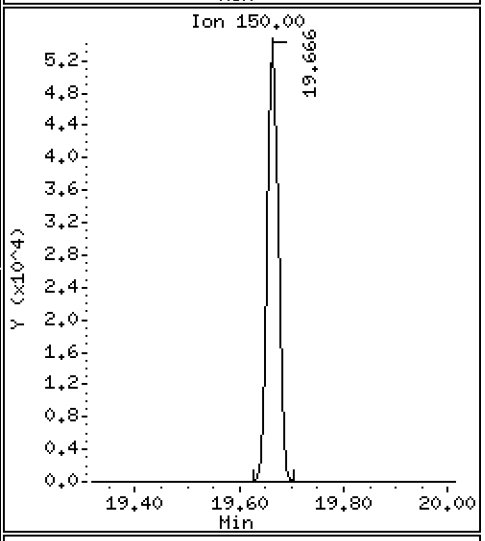
63 Di-n-butylphthalate

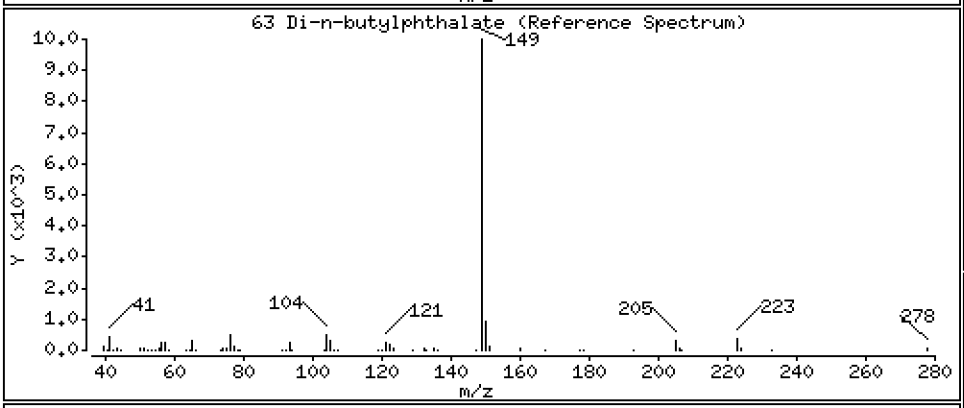
Concentration: 4.967 ug/mL

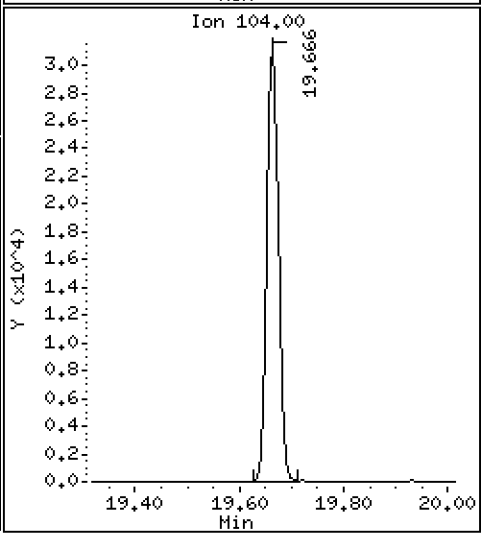


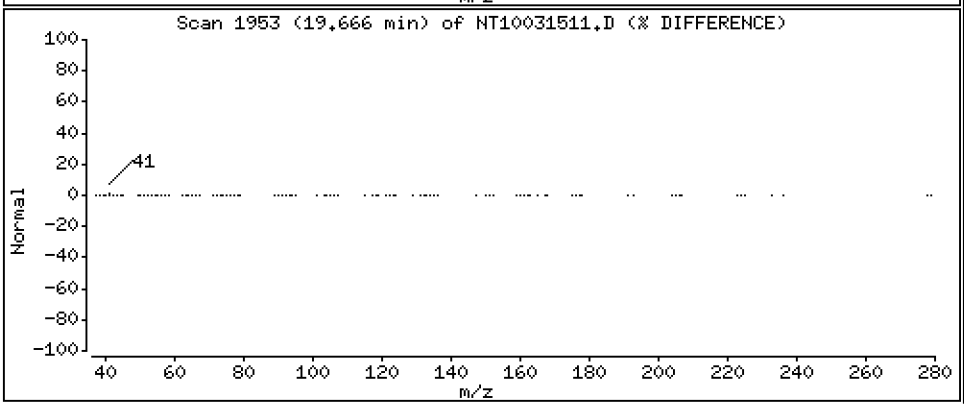












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

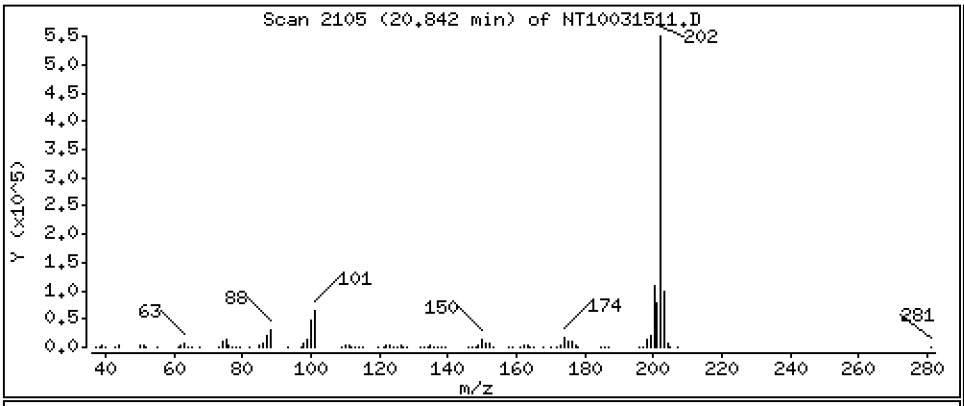
Operator: VTS

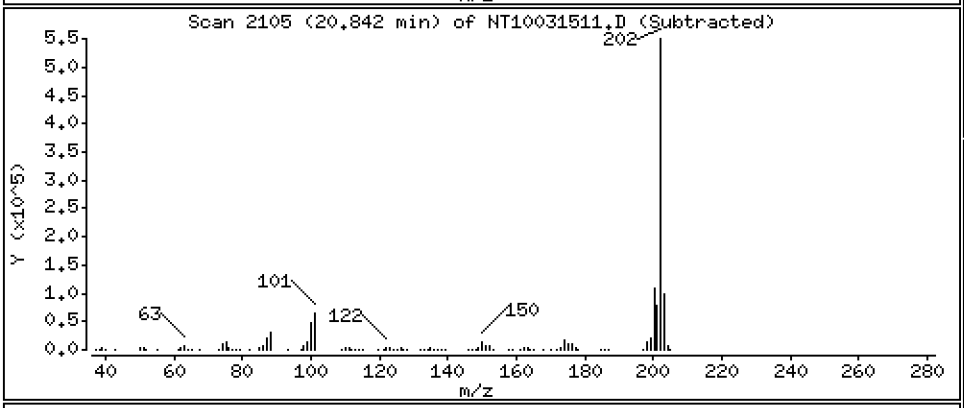
Column phase: ZB-5msi

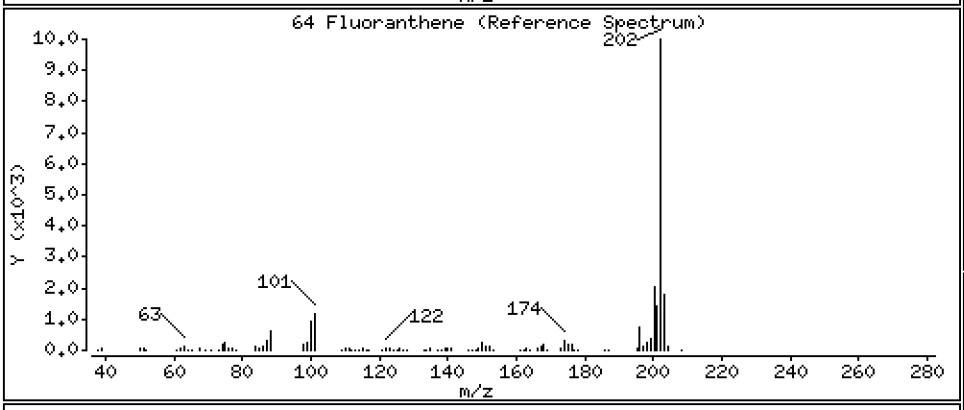
Column diameter: 0.25

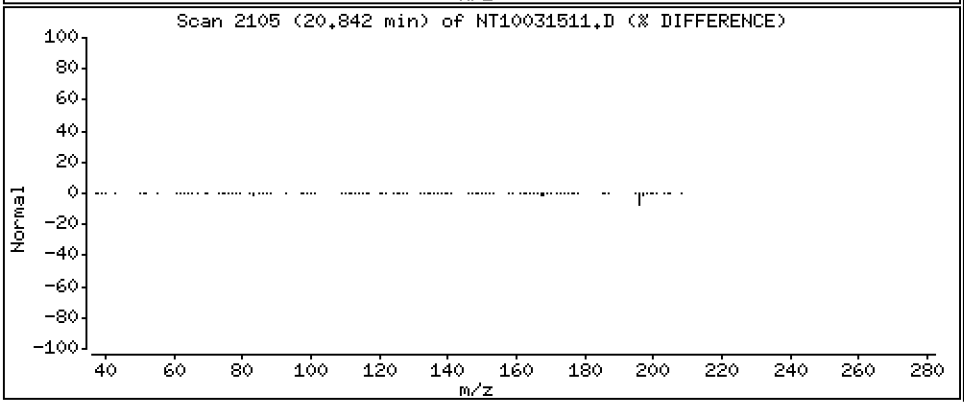
64 Fluoranthene

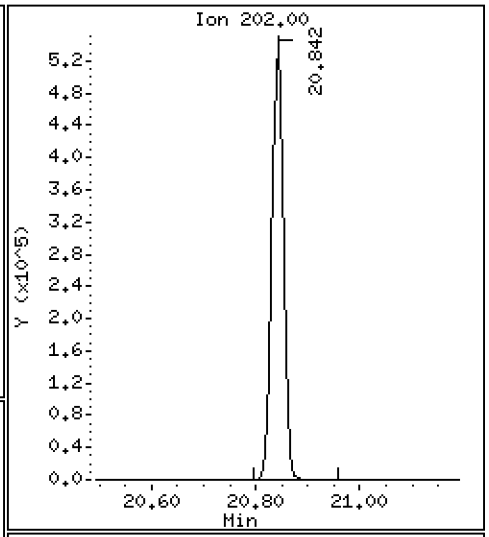
Concentration: 4.472 ug/mL

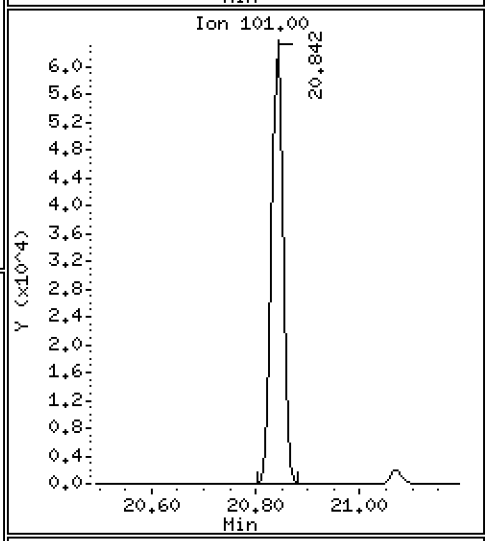


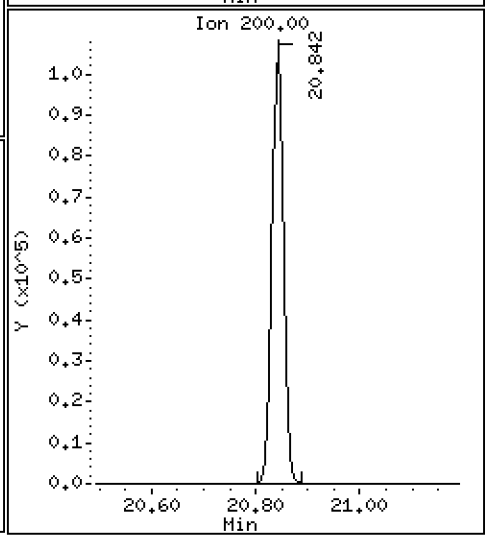












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

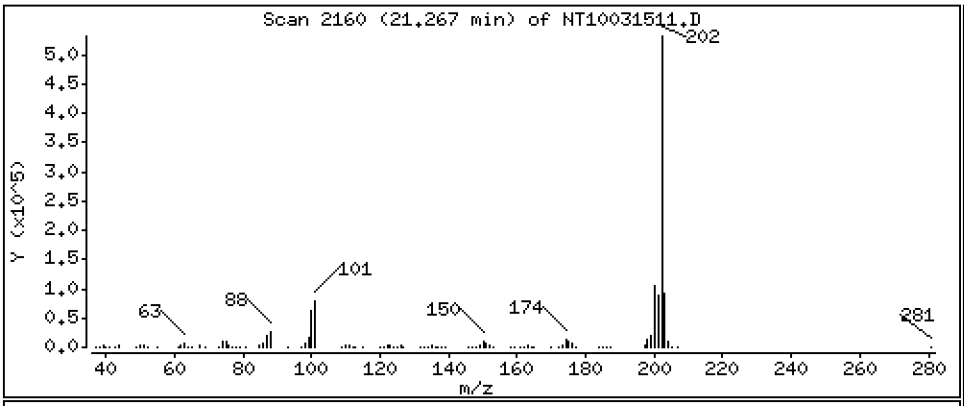
Operator: VTS

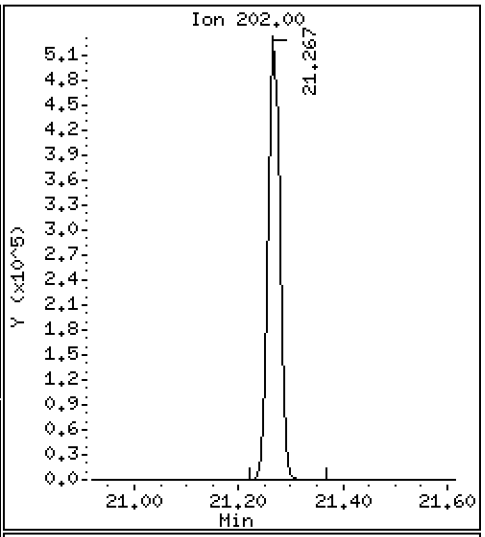
Column phase: ZB-5msi

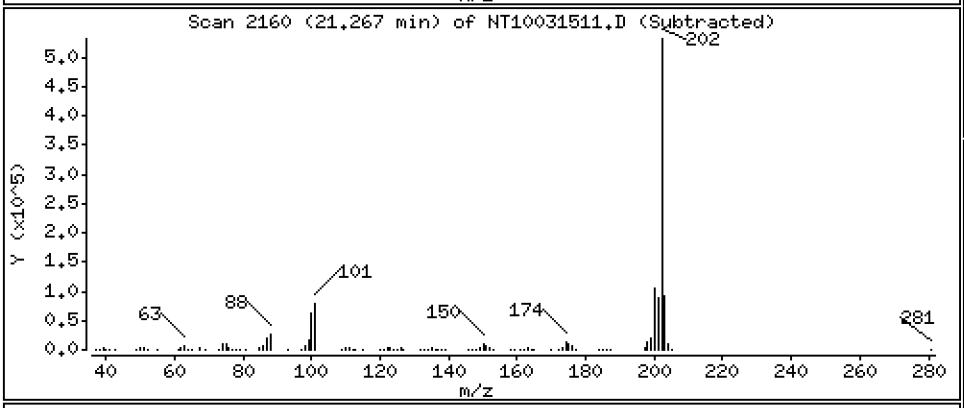
Column diameter: 0.25

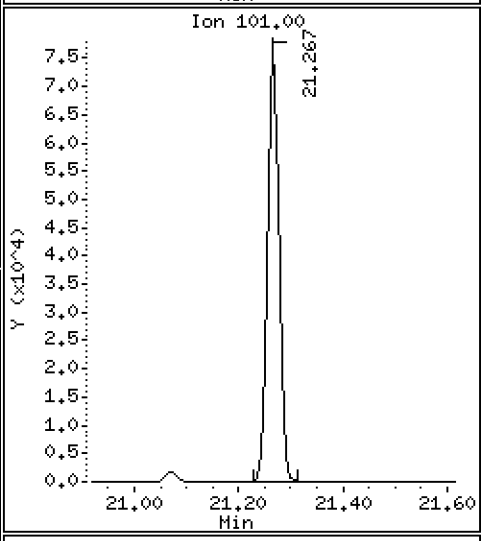
65 Pyrene

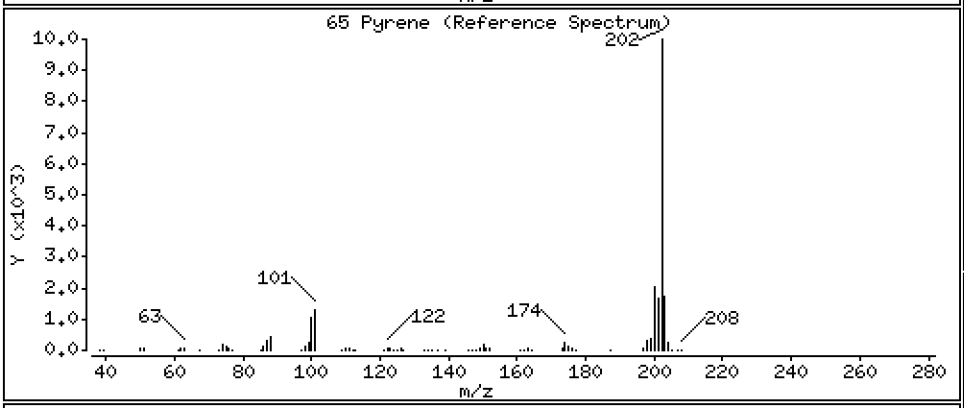
Concentration: 4.339 ug/mL

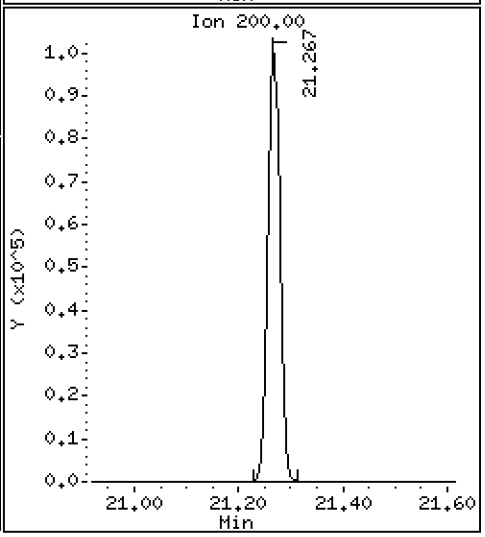


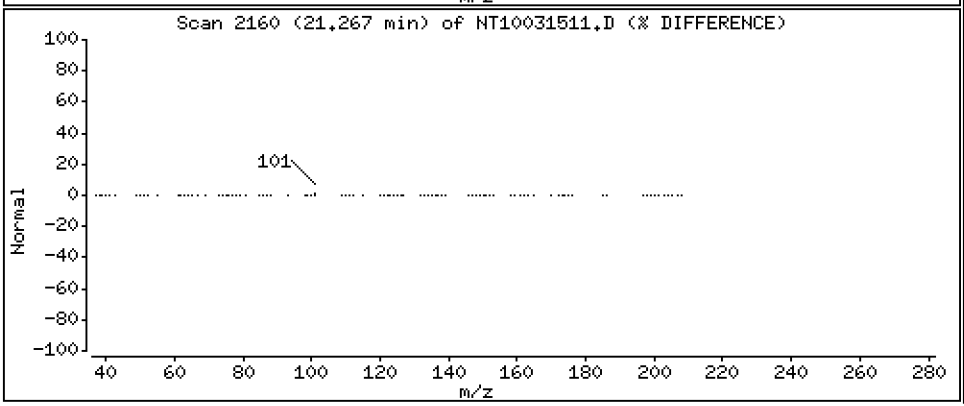












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

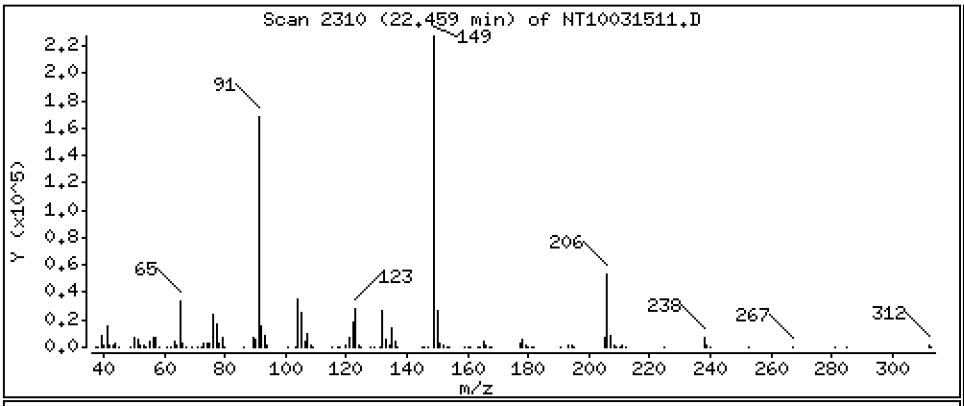
Operator: VTS

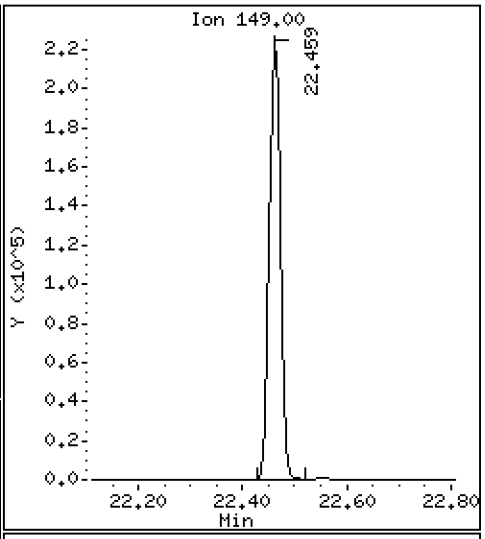
Column phase: ZB-5msi

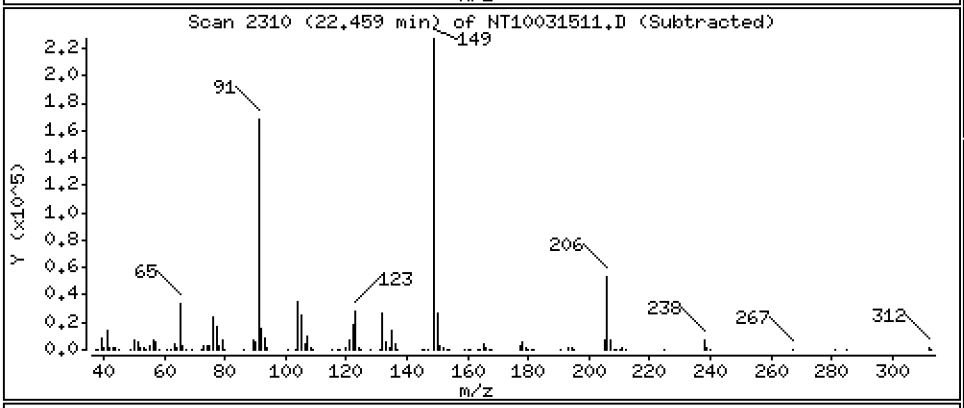
Column diameter: 0.25

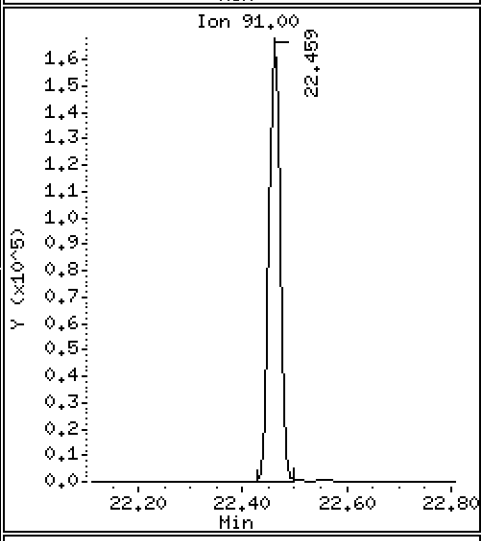
67 Butylbenzylphthalate

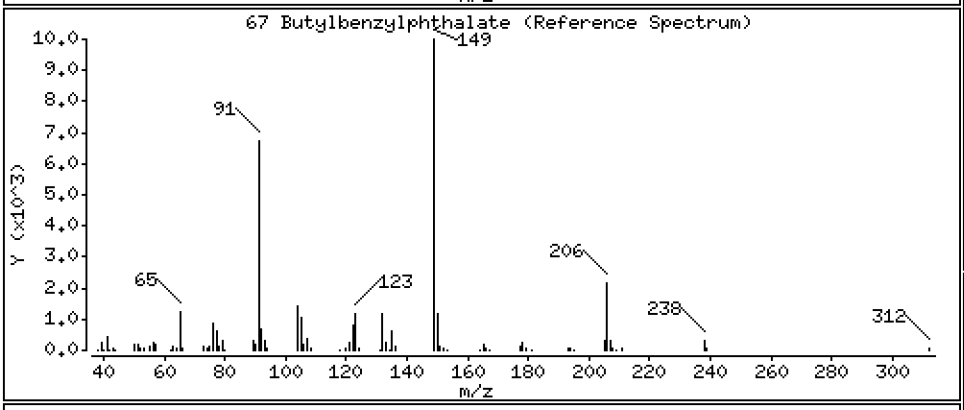
Concentration: 4.834 ug/mL

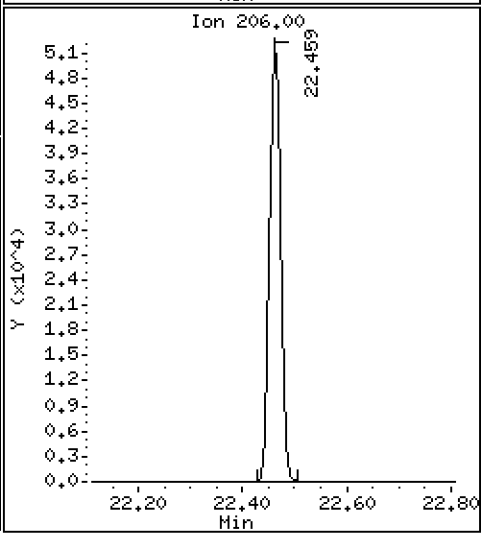


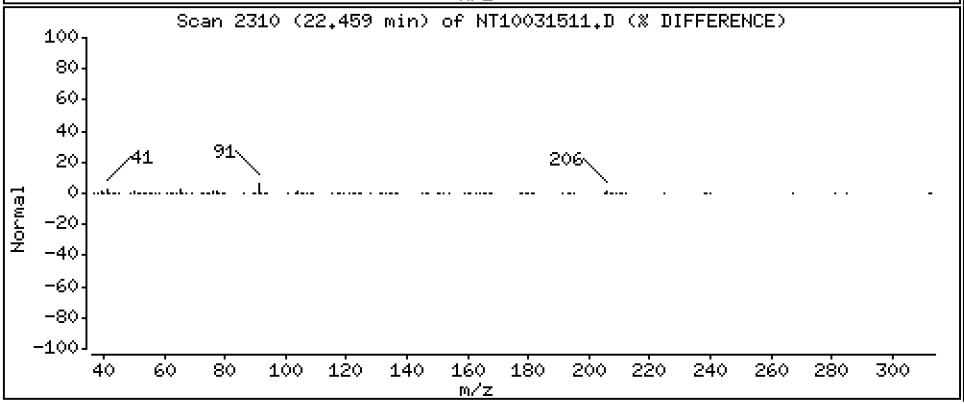












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

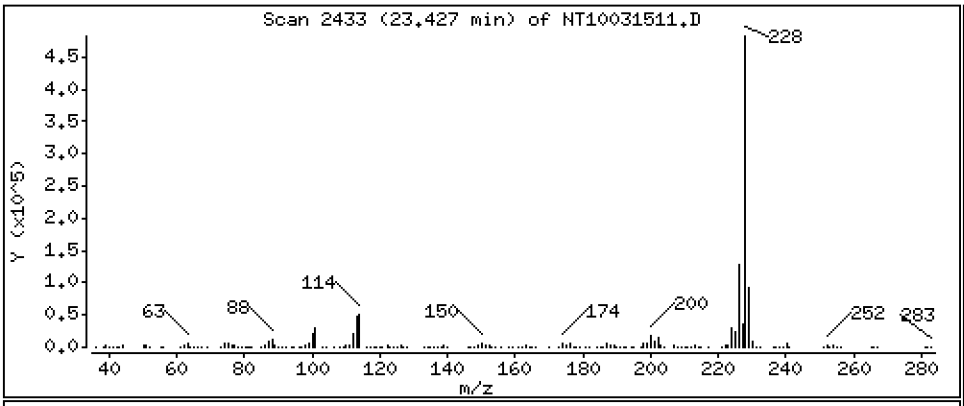
Operator: VTS

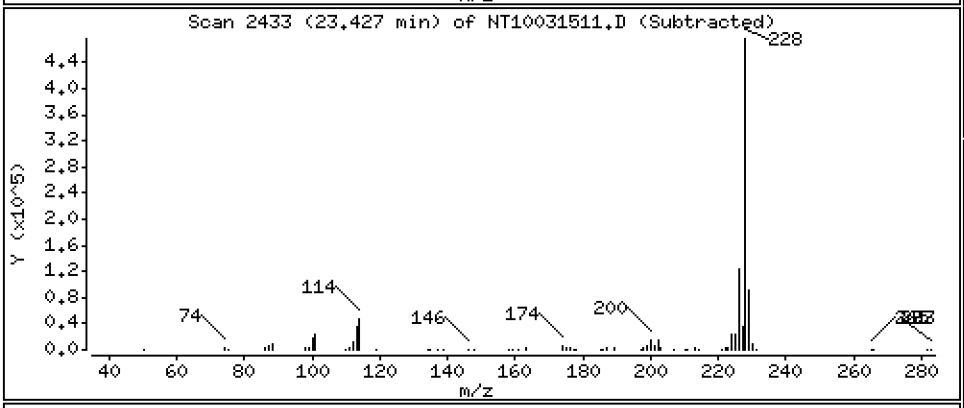
Column phase: ZB-5msi

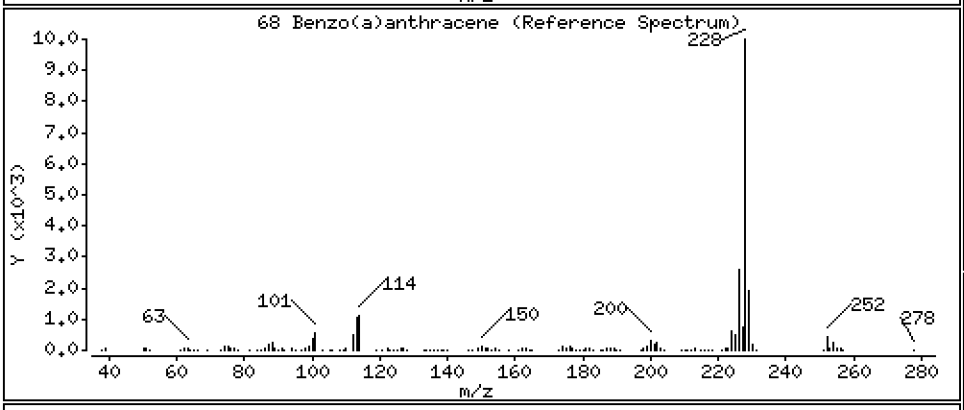
Column diameter: 0.25

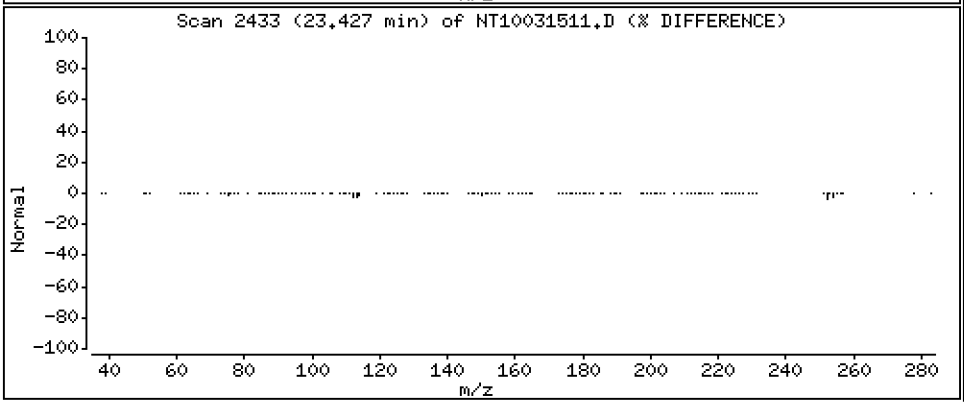
68 Benzo(a)anthracene

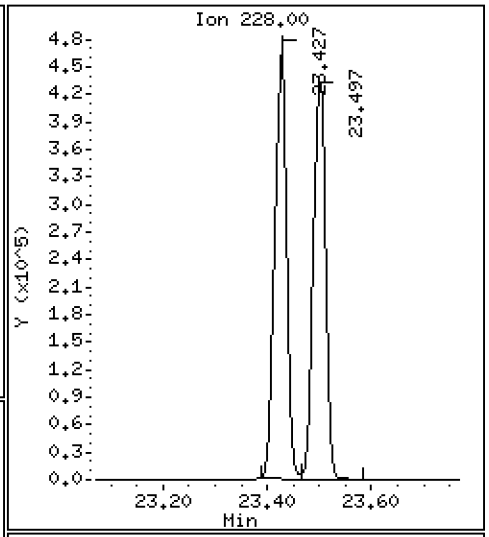
Concentration: 4.647 ug/mL

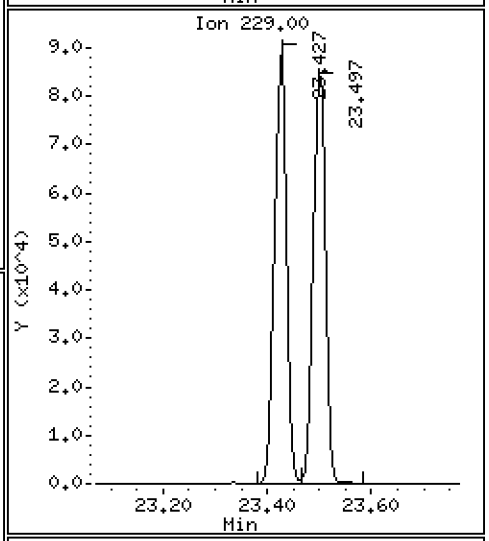


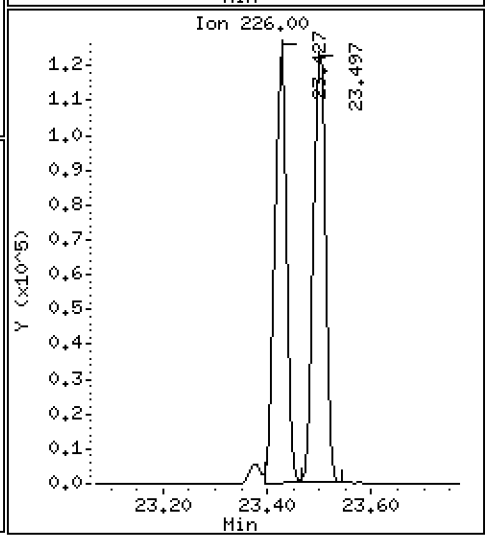












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

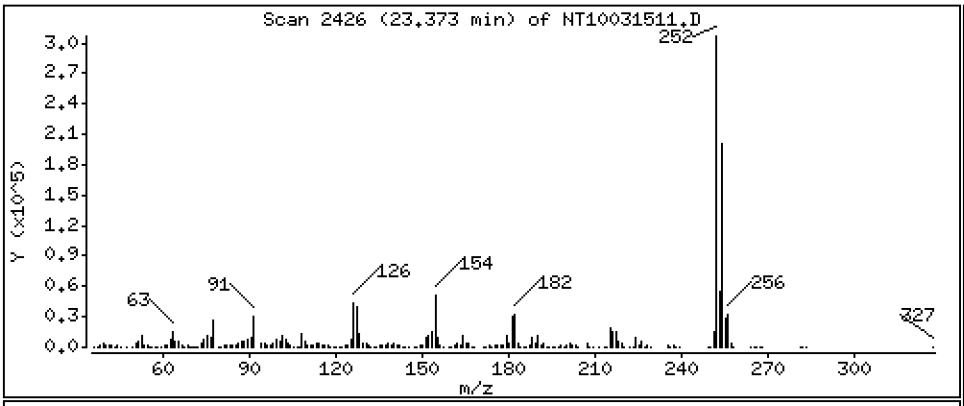
Operator: VTS

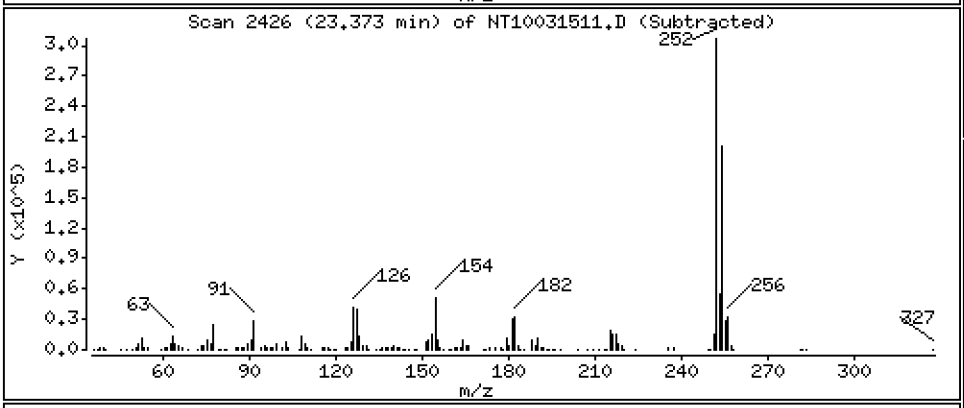
Column phase: ZB-5msi

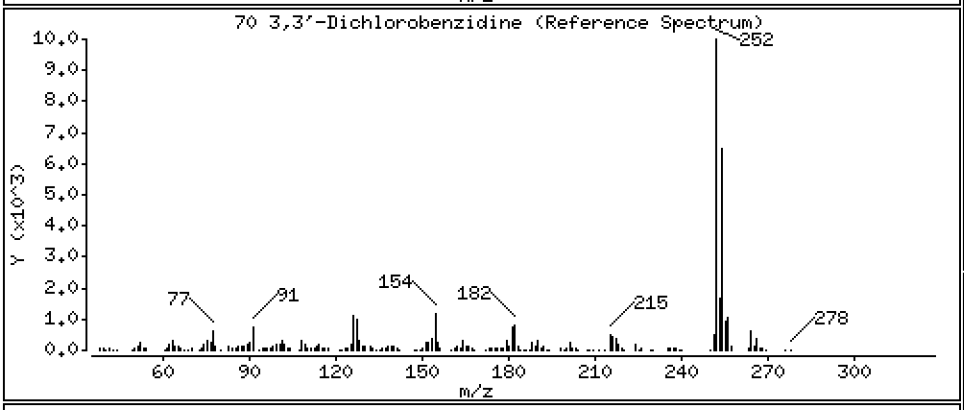
Column diameter: 0.25

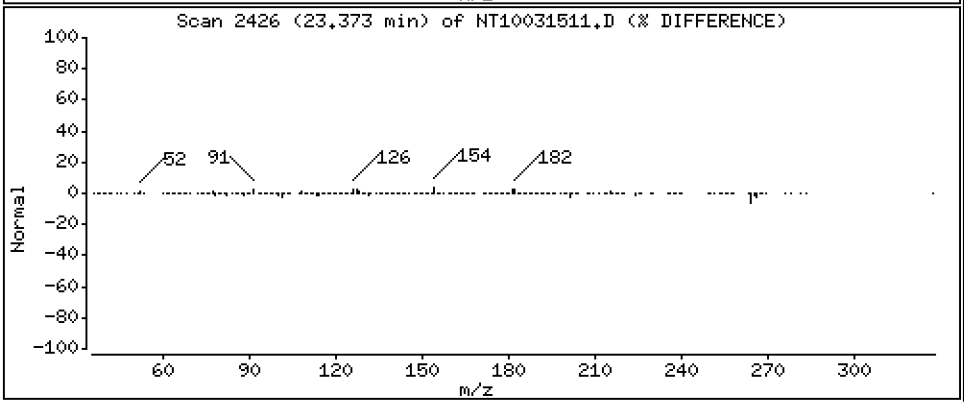
70 3,3'-Dichlorobenzidine

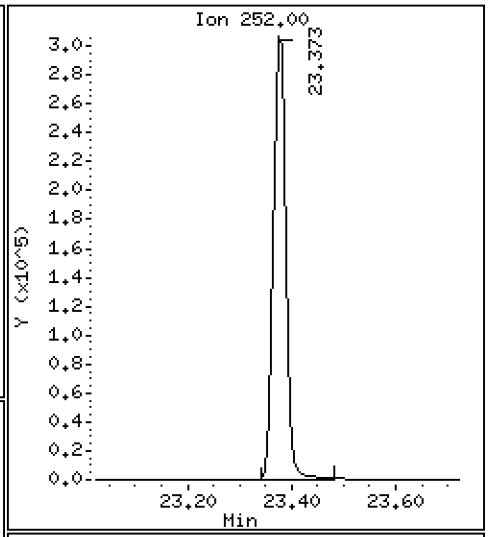
Concentration: 9.817 ug/mL

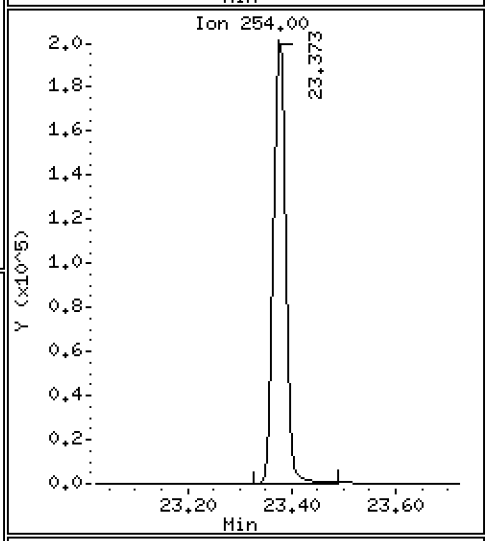


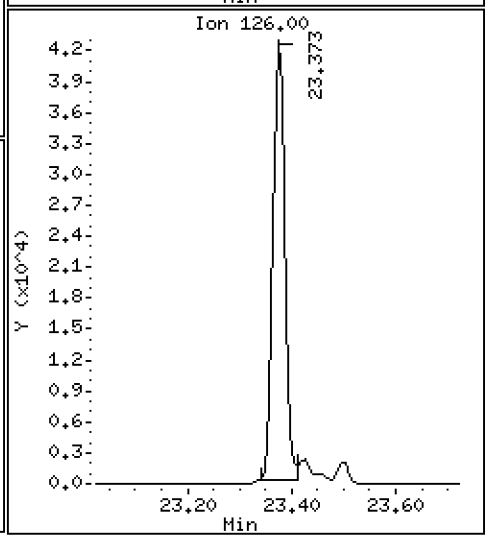












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

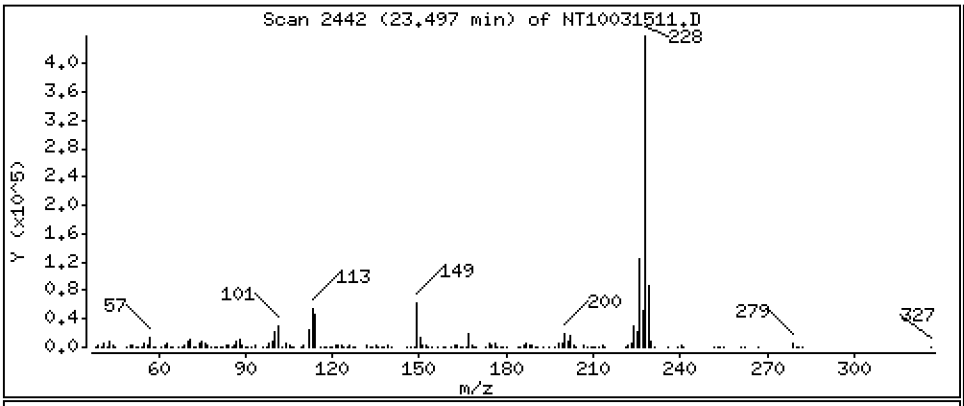
Operator: VTS

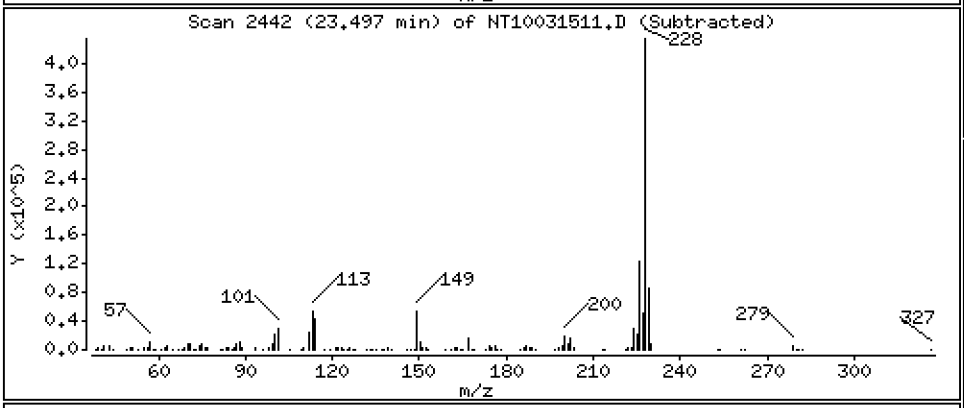
Column phase: ZB-5msi

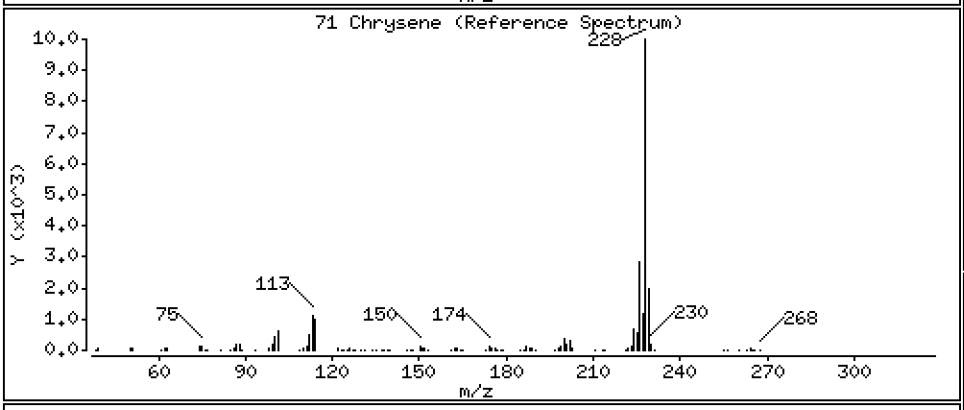
Column diameter: 0.25

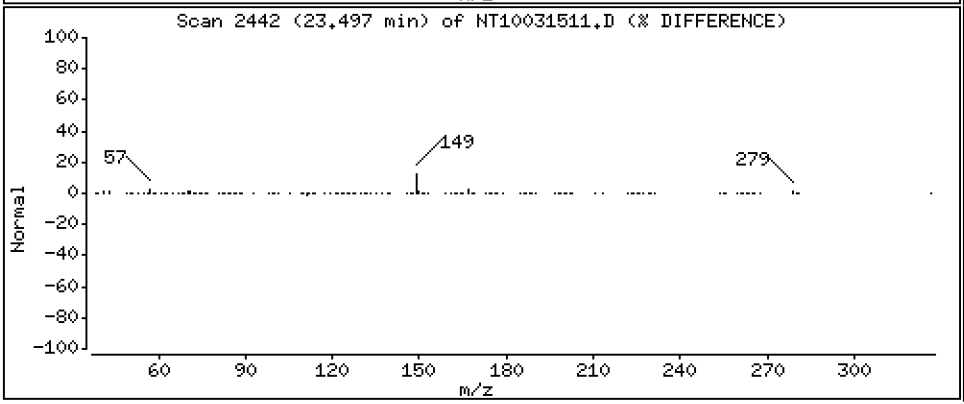
71 Chrysene

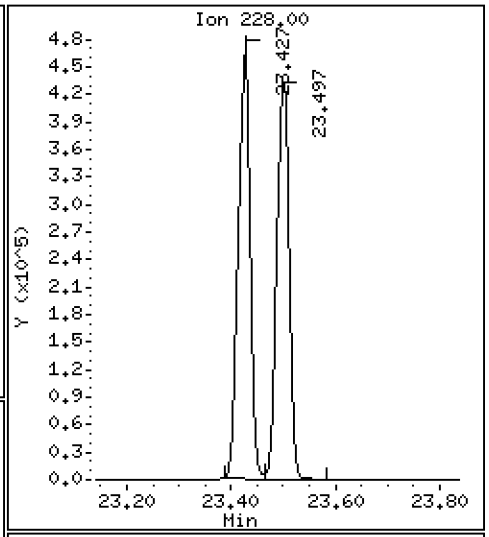
Concentration: 4.510 ug/mL

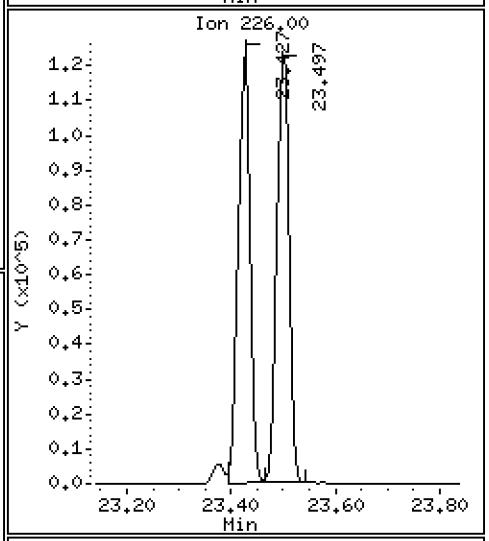


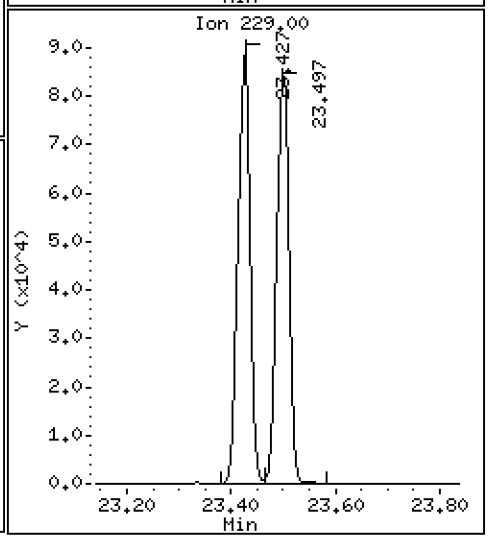












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

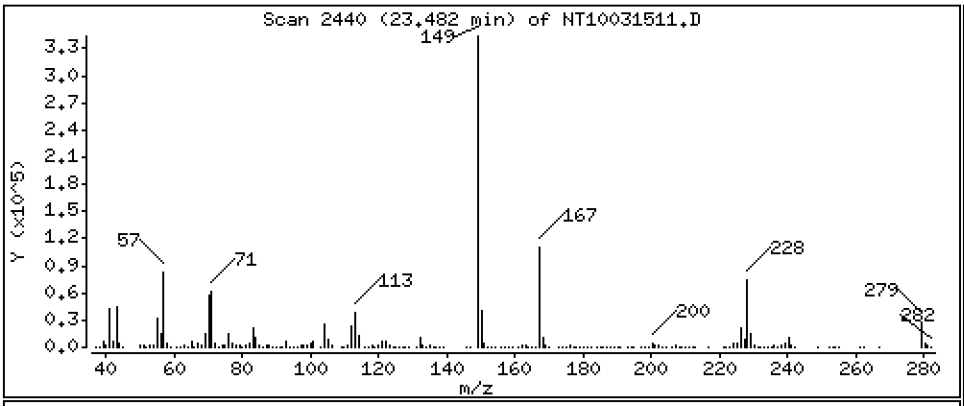
Operator: VTS

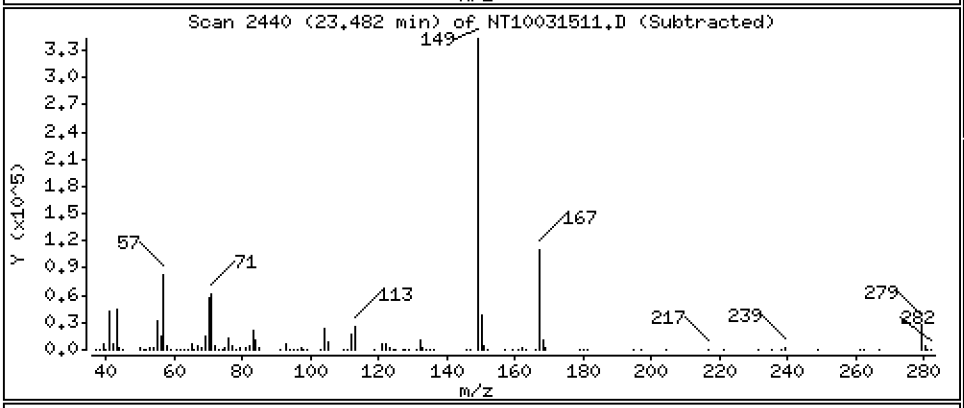
Column phase: ZB-5msi

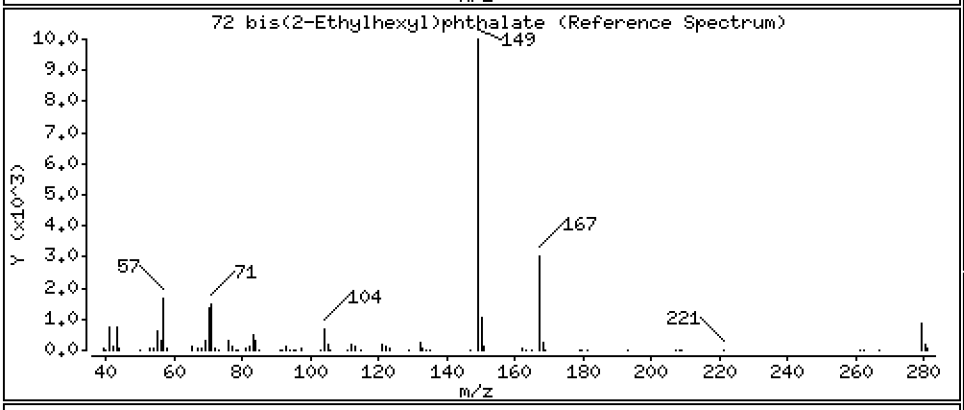
Column diameter: 0.25

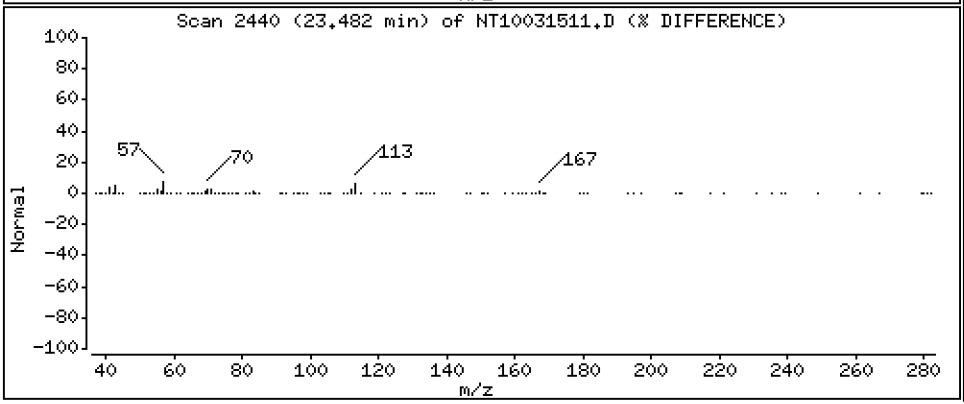
72 bis(2-Ethylhexyl)phthalate

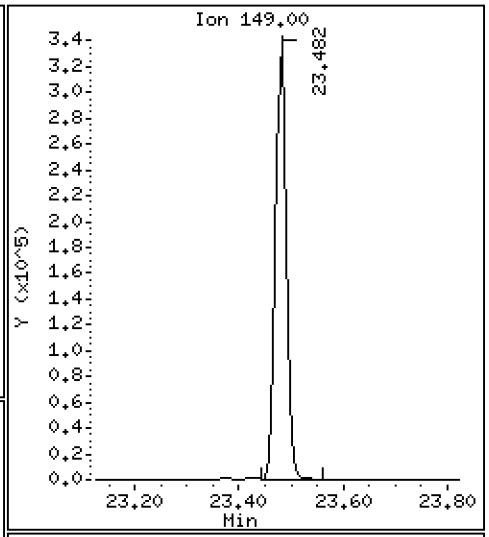
Concentration: 4.680 ug/mL

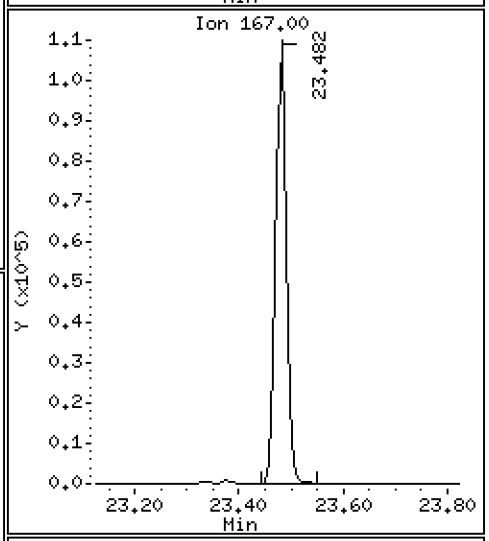


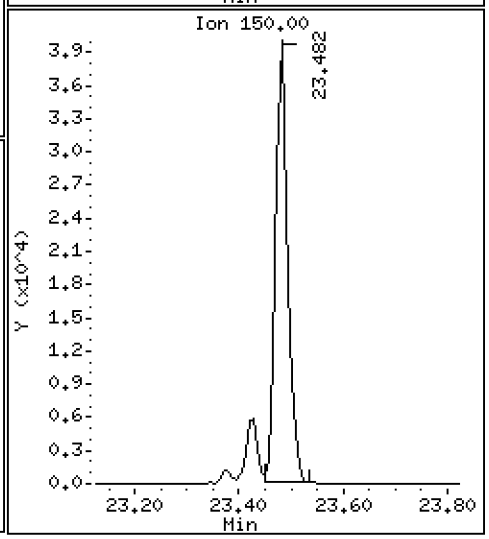












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

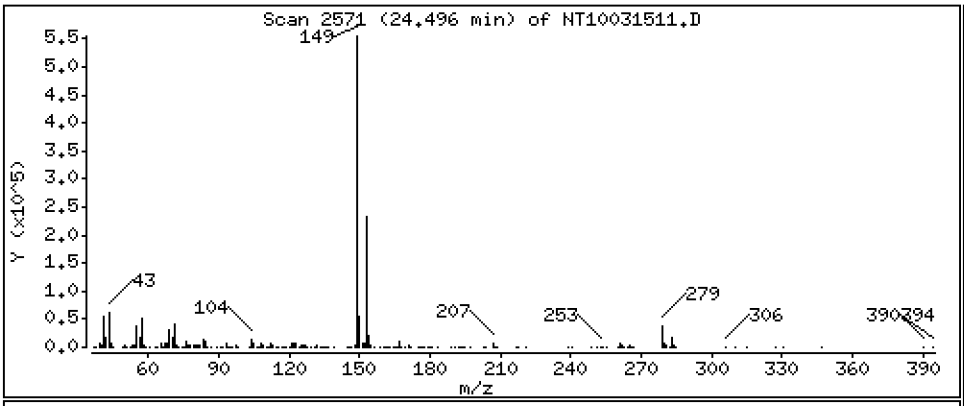
Operator: VTS

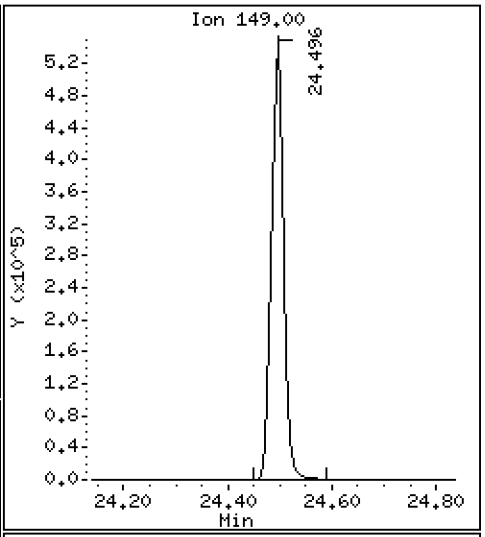
Column phase: ZB-5msi

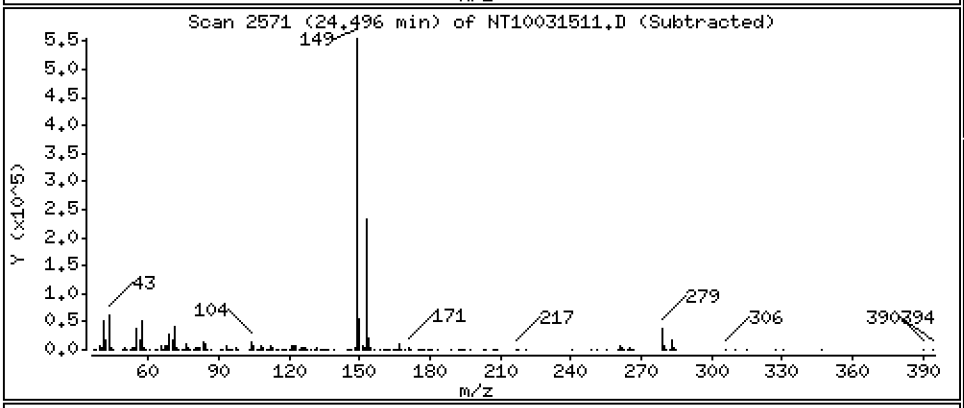
Column diameter: 0.25

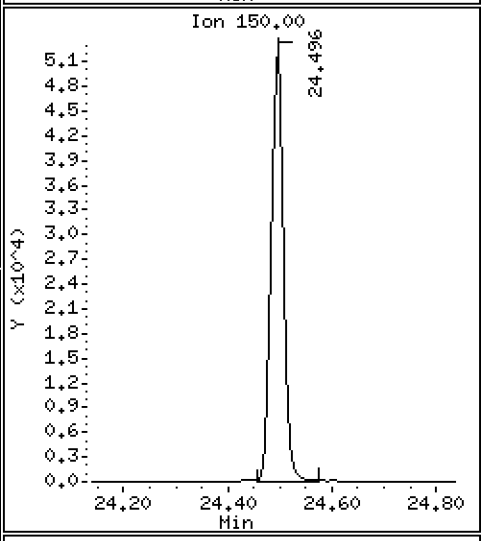
73 Di-n-octylphthalate

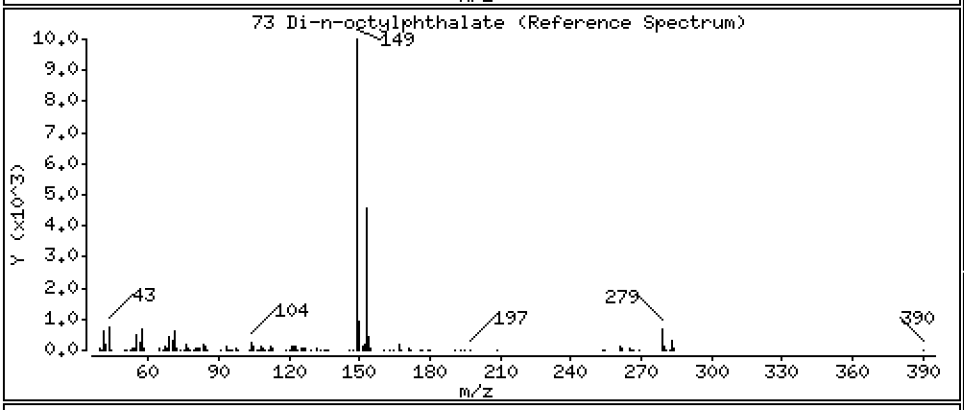
Concentration: 4.947 ug/mL

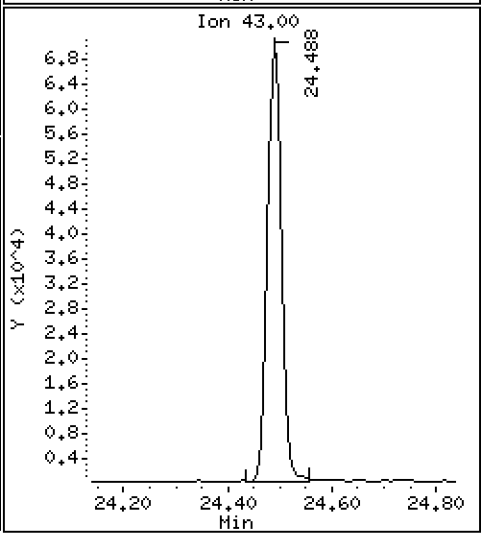


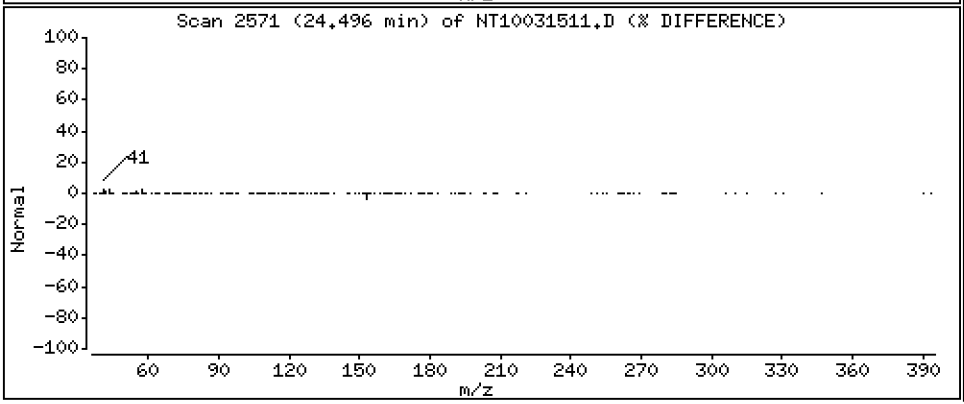












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

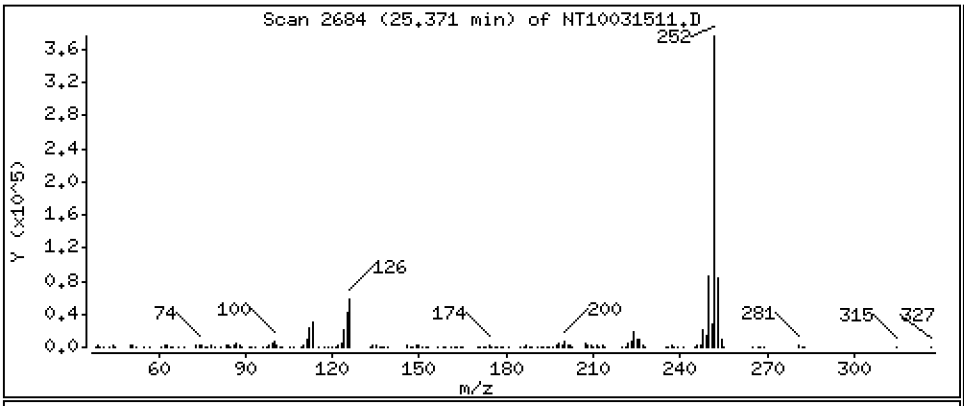
Operator: VTS

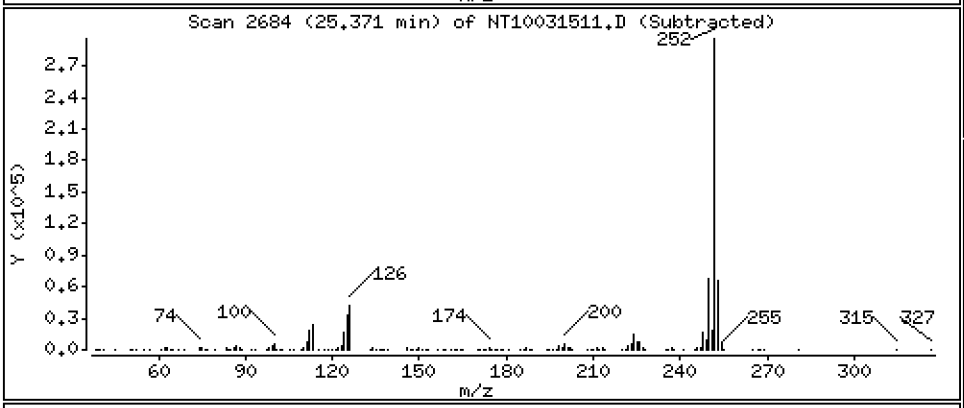
Column phase: ZB-5msi

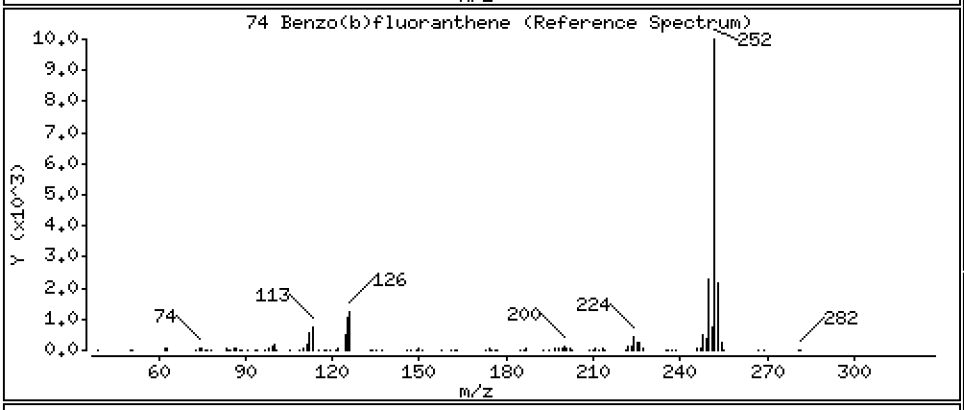
Column diameter: 0.25

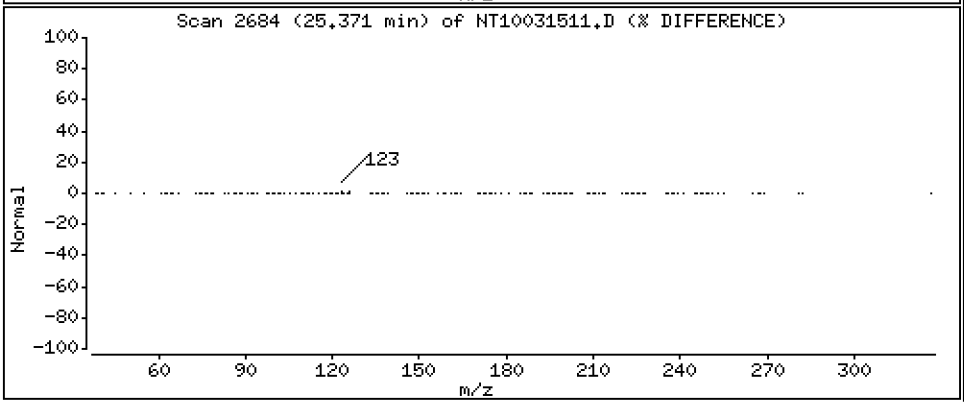
74 Benzo(b)fluoranthene

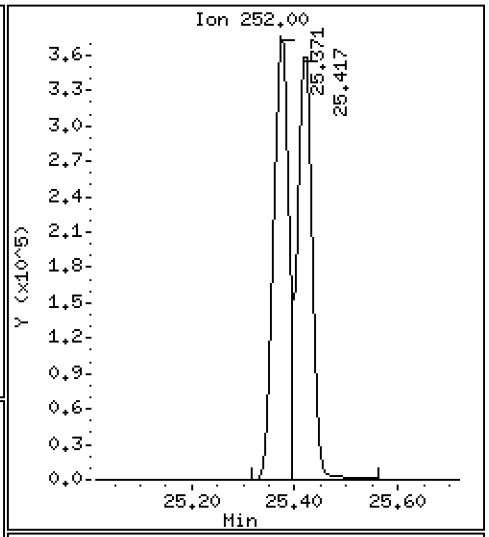
Concentration: 4.602 ug/mL

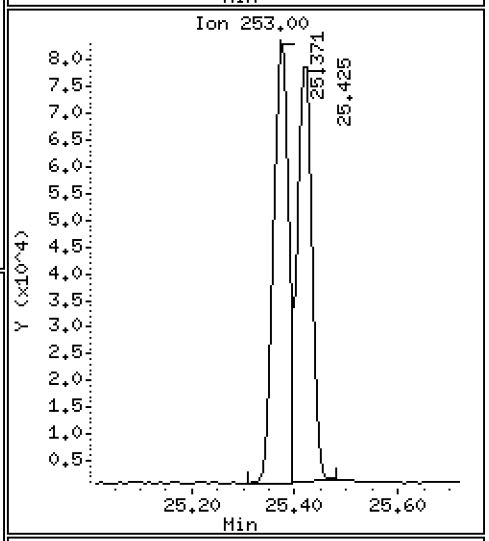


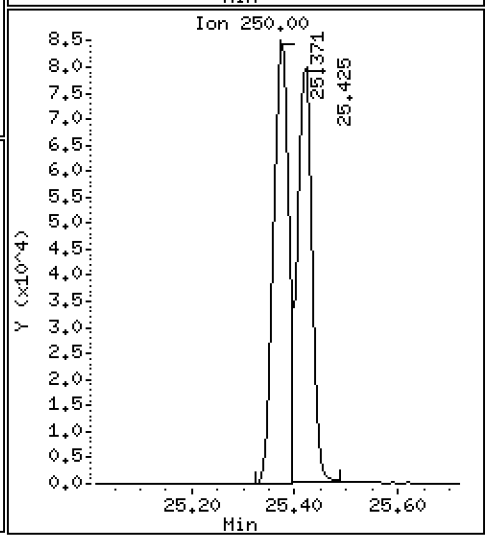












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

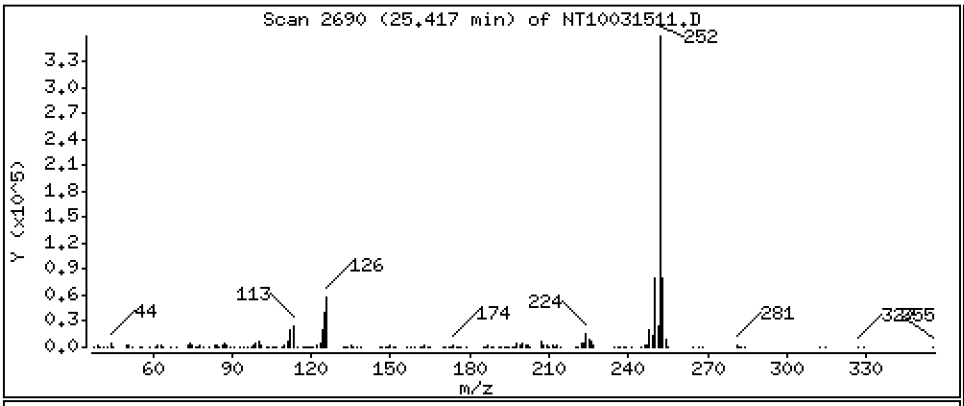
Operator: VTS

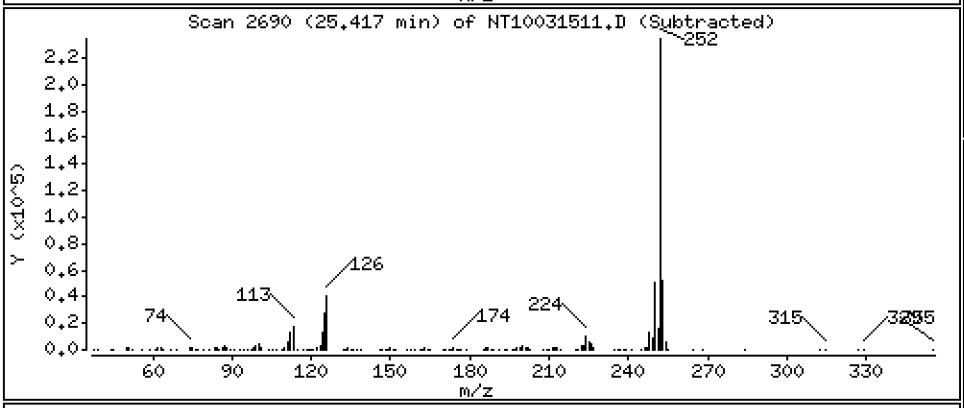
Column phase: ZB-5msi

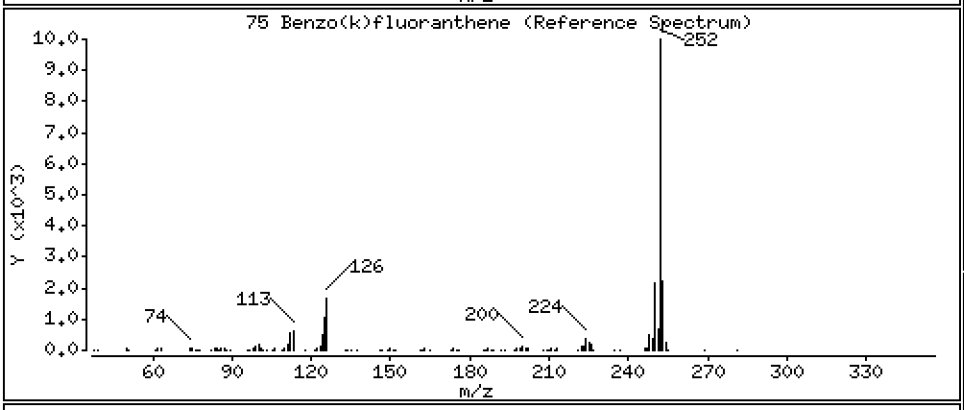
Column diameter: 0.25

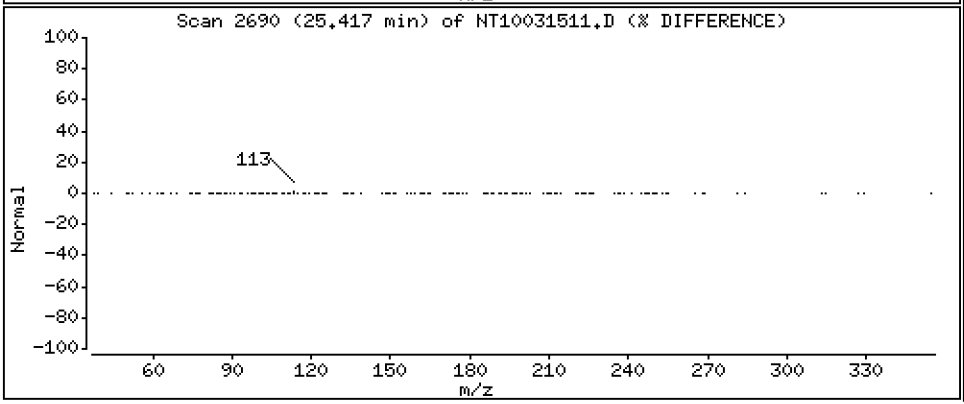
75 Benzo(k)fluoranthene

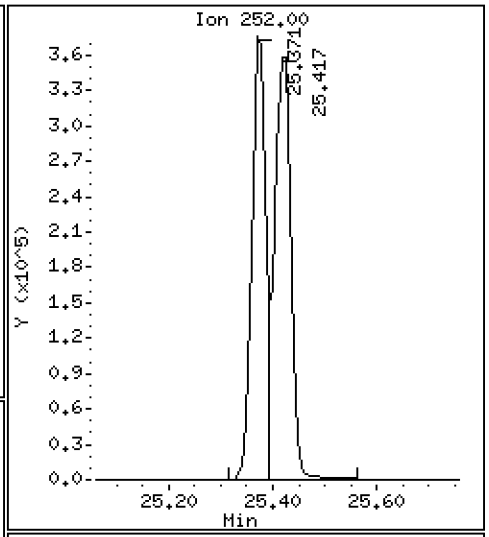
Concentration: 4.898 ug/mL

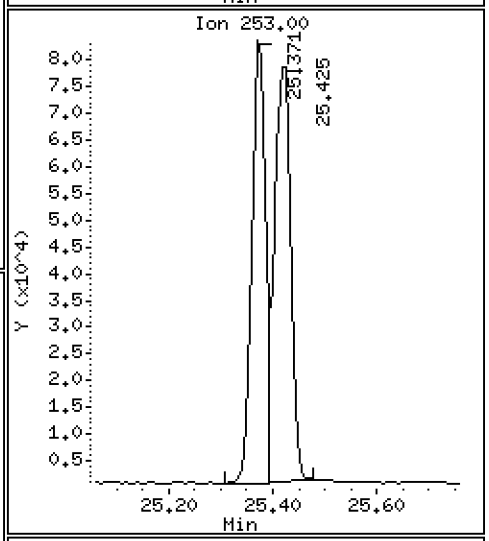


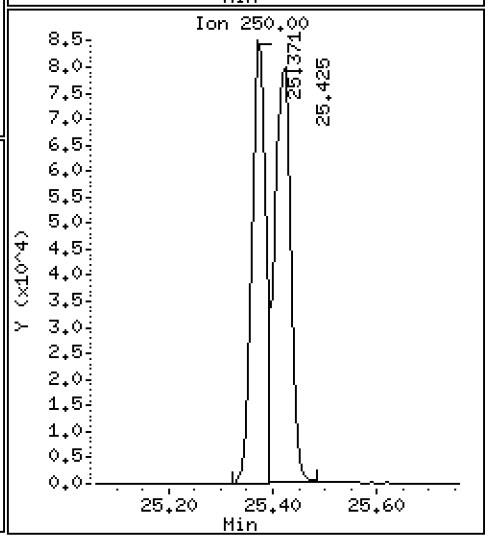












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

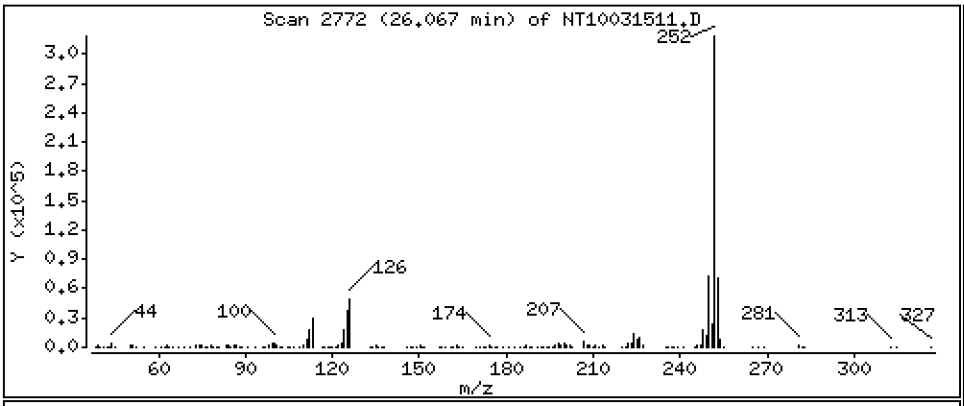
Operator: VTS

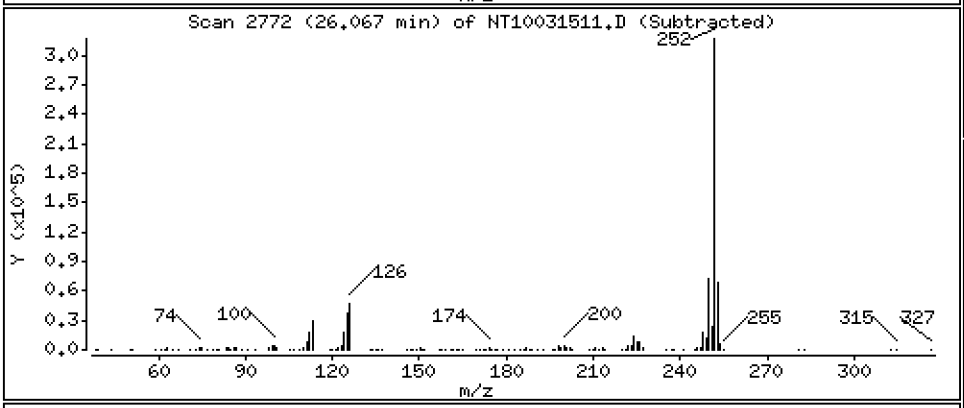
Column phase: ZB-5msi

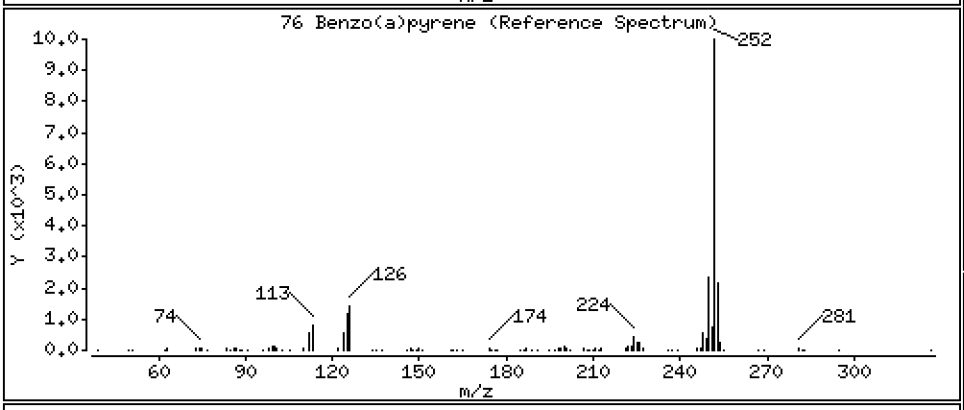
Column diameter: 0.25

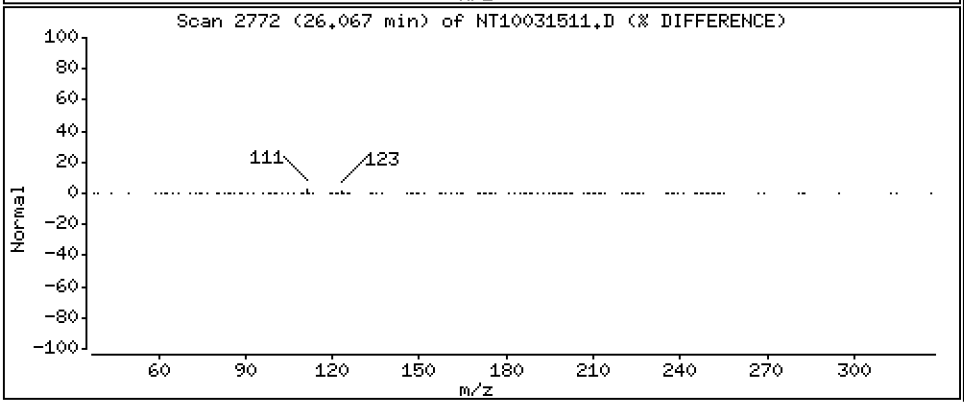
76 Benzo(a)pyrene

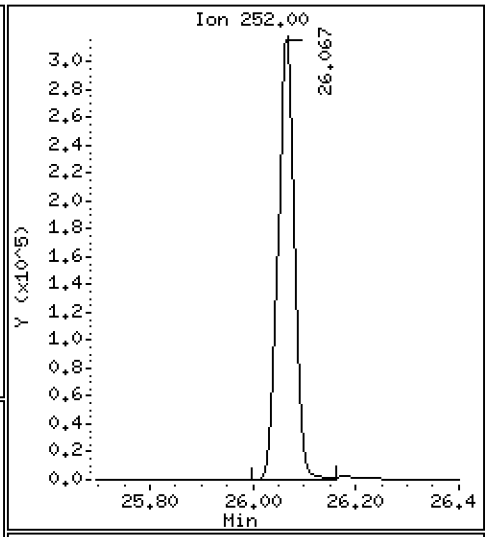
Concentration: 4.873 ug/mL

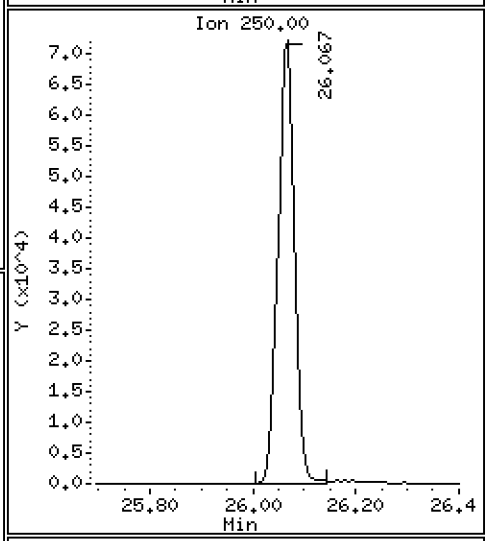


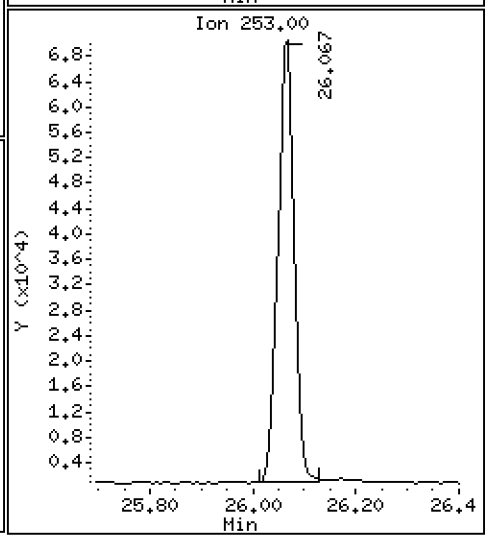












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

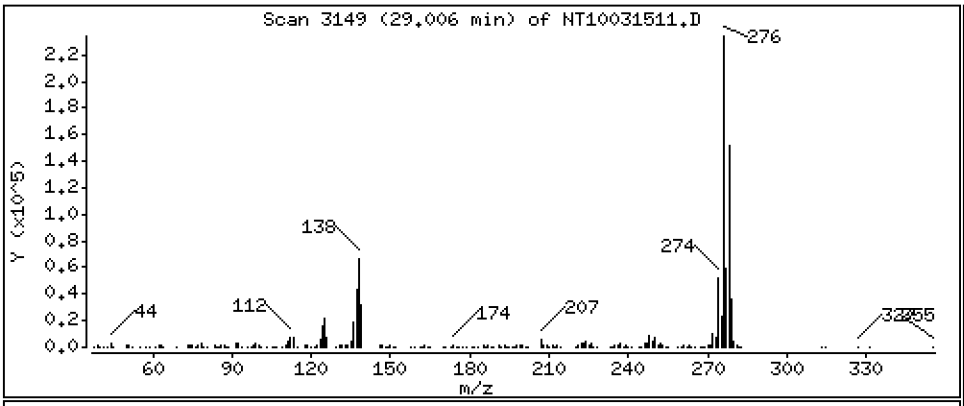
Operator: VTS

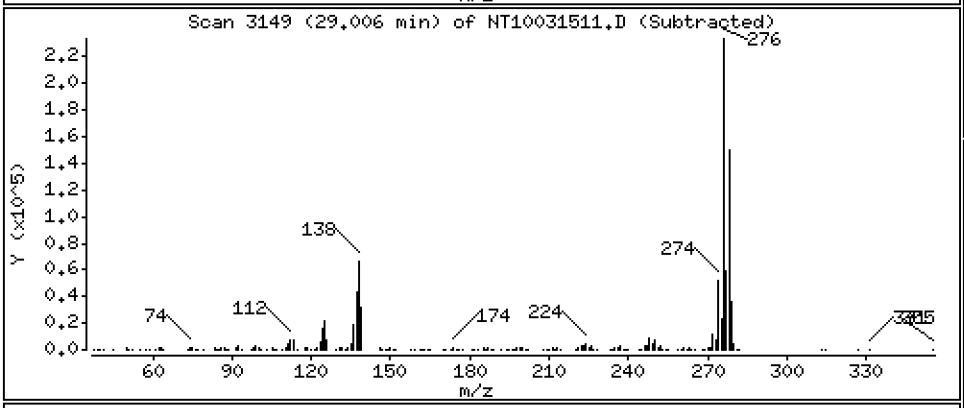
Column phase: ZB-5msi

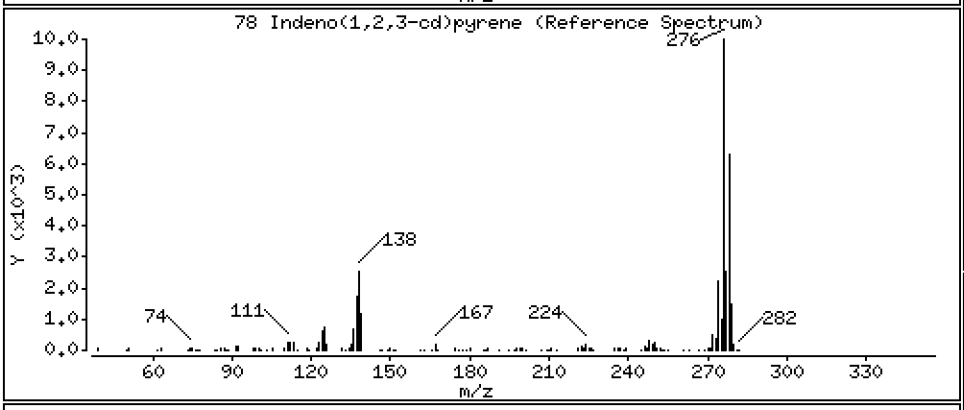
Column diameter: 0.25

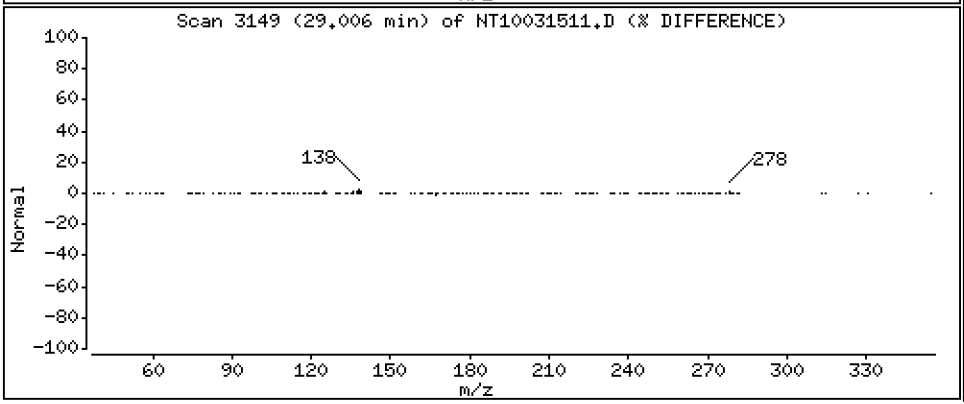
78 Indeno(1,2,3-cd)pyrene

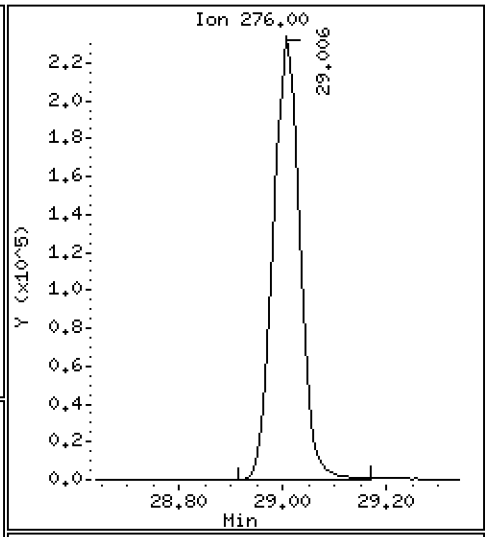
Concentration: 4.577 ug/mL

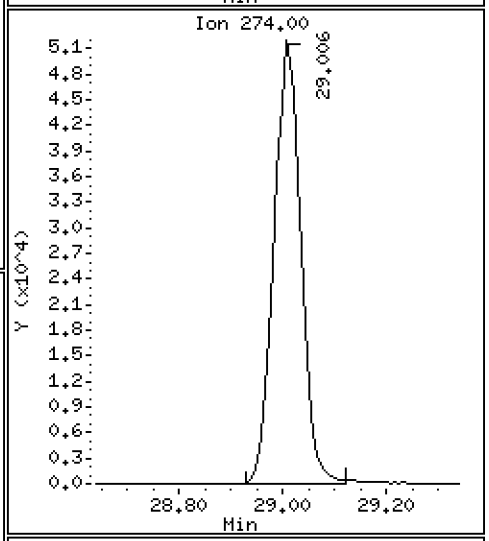


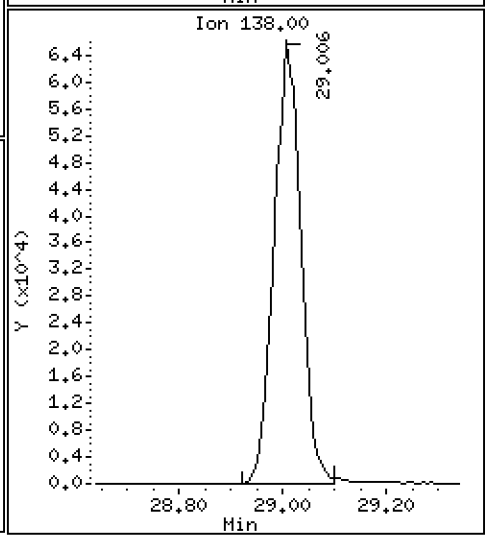












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

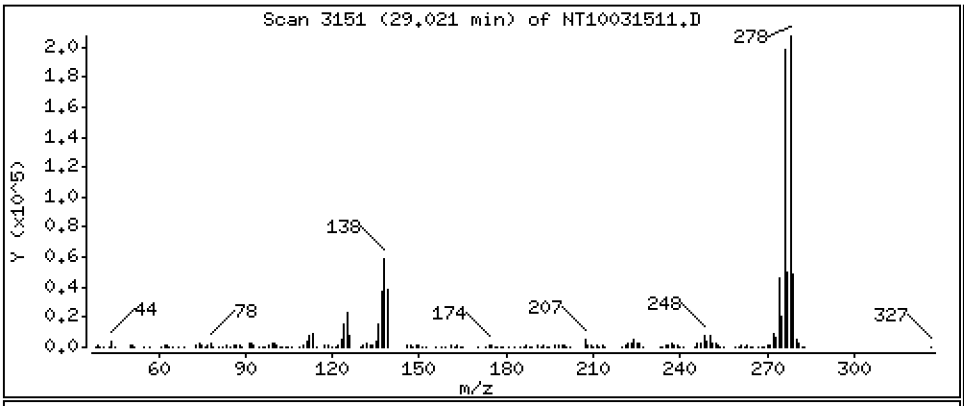
Operator: VTS

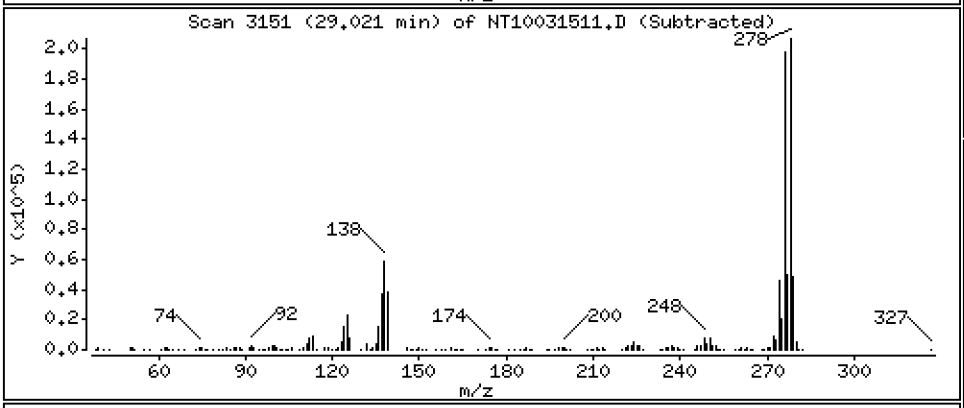
Column phase: ZB-5msi

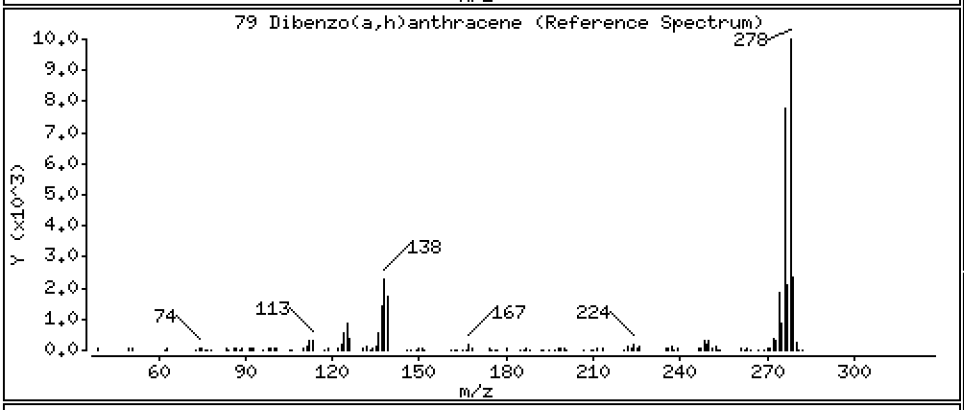
Column diameter: 0.25

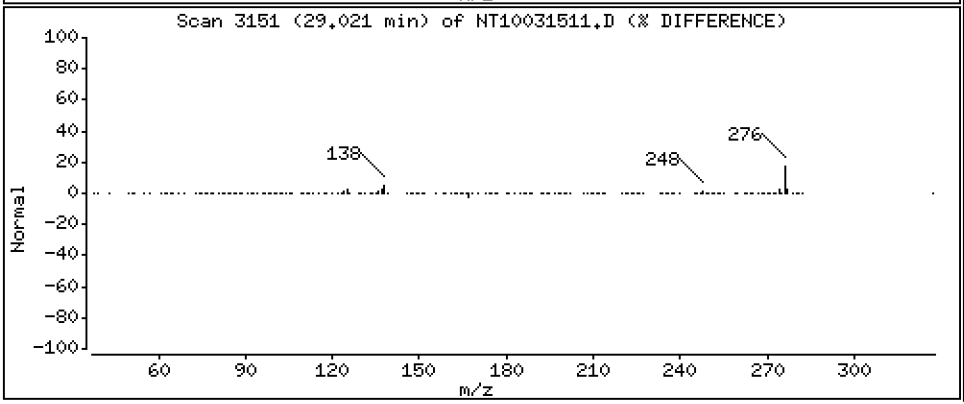
79 Dibenzo(a,h)anthracene

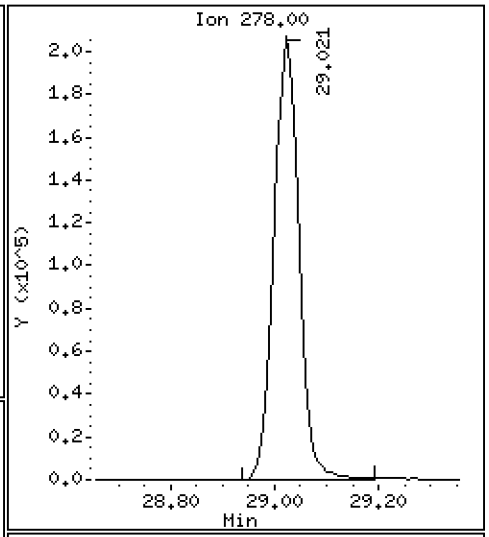
Concentration: 4.547 ug/mL

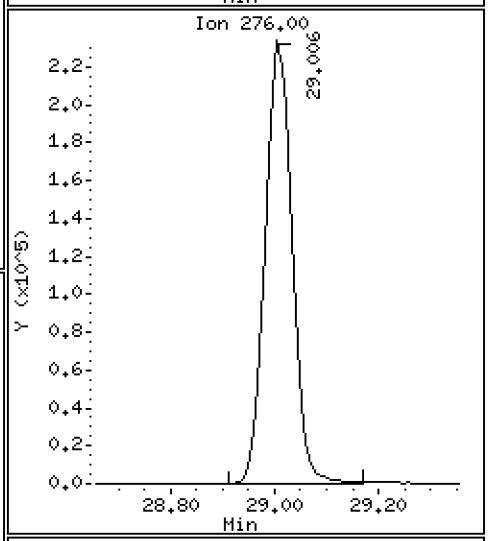


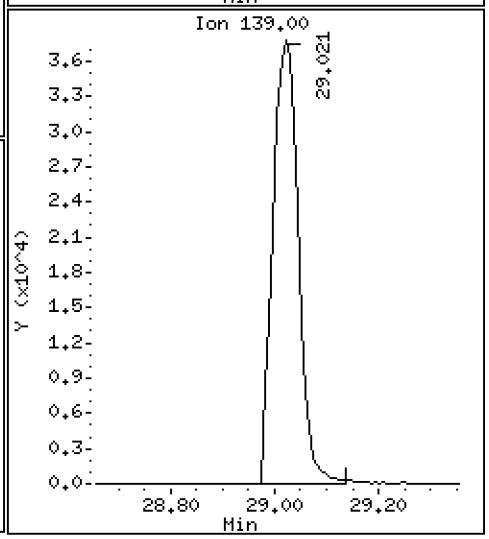












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

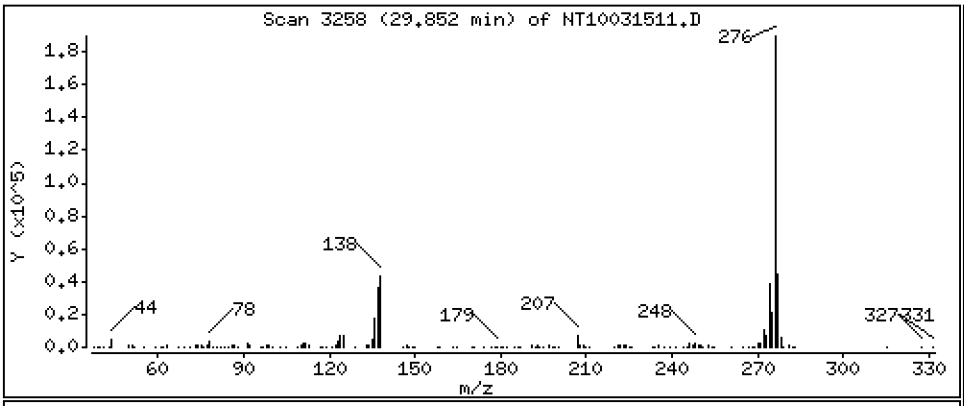
Operator: VTS

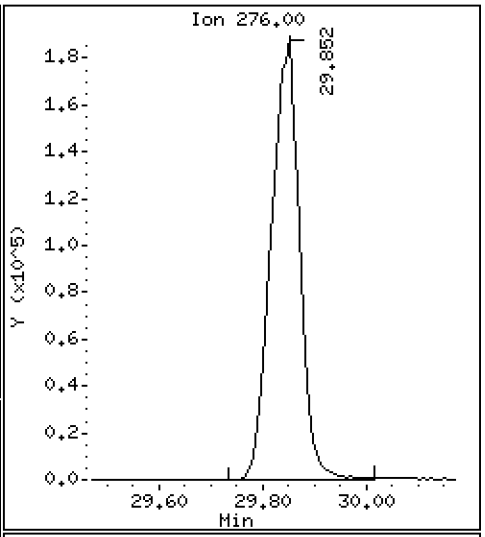
Column phase: ZB-5msi

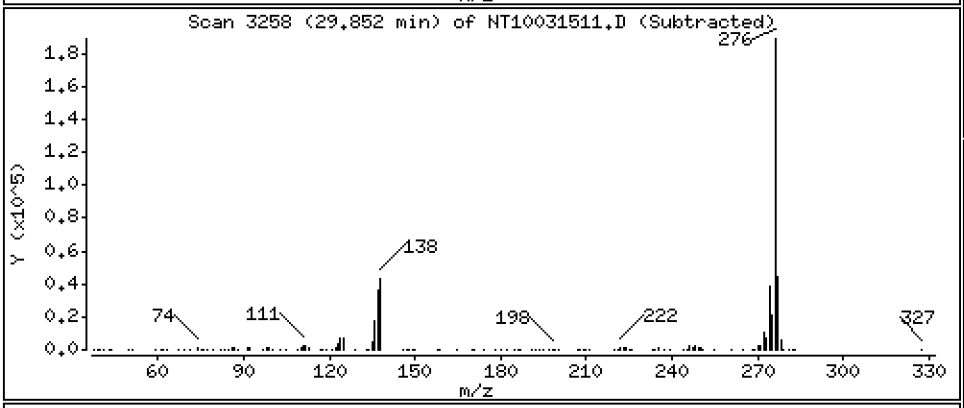
Column diameter: 0.25

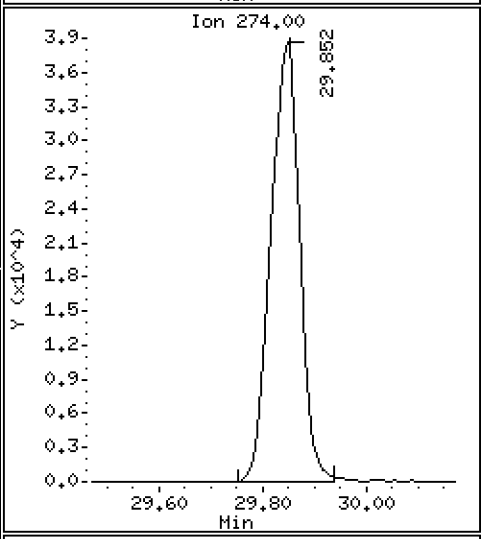
80 Benzo(g,h,i)perylene

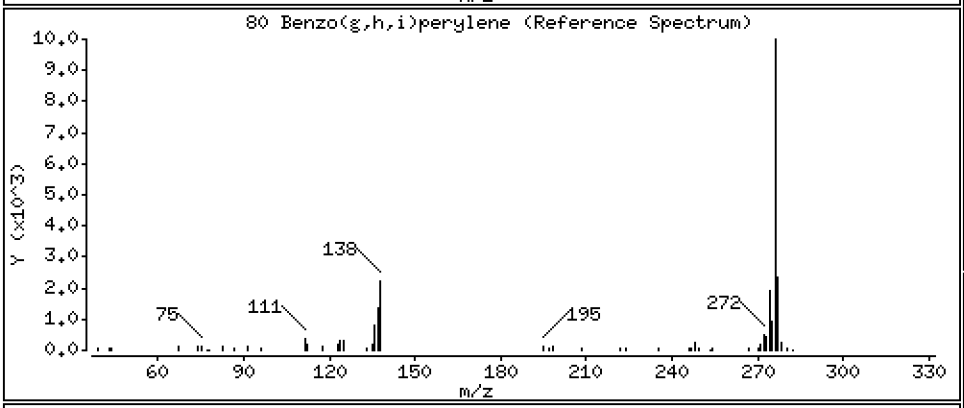
Concentration: 4.590 ug/mL

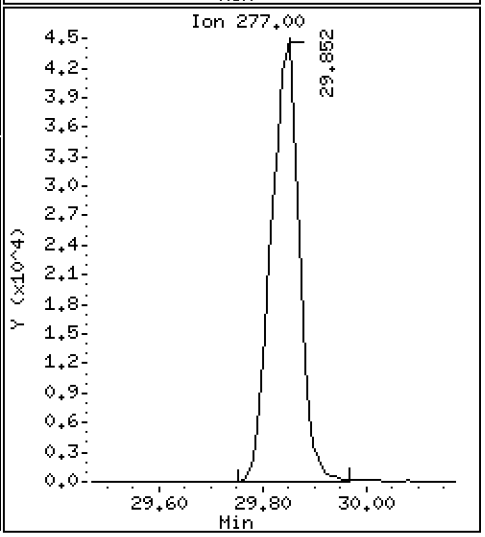


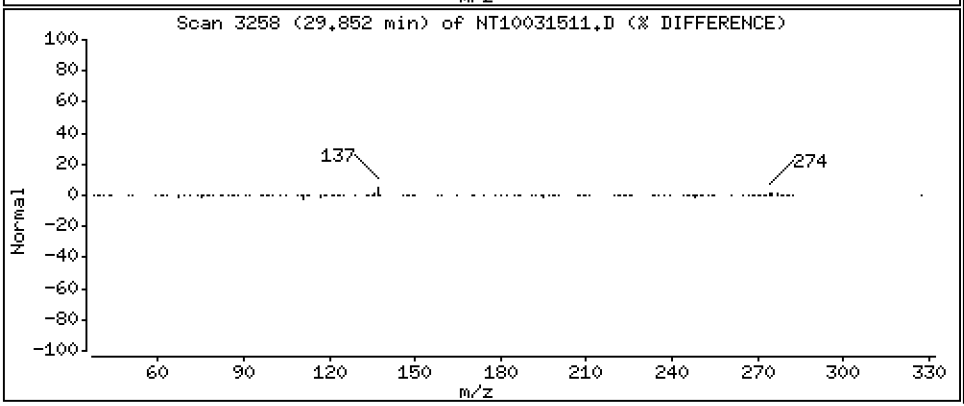












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

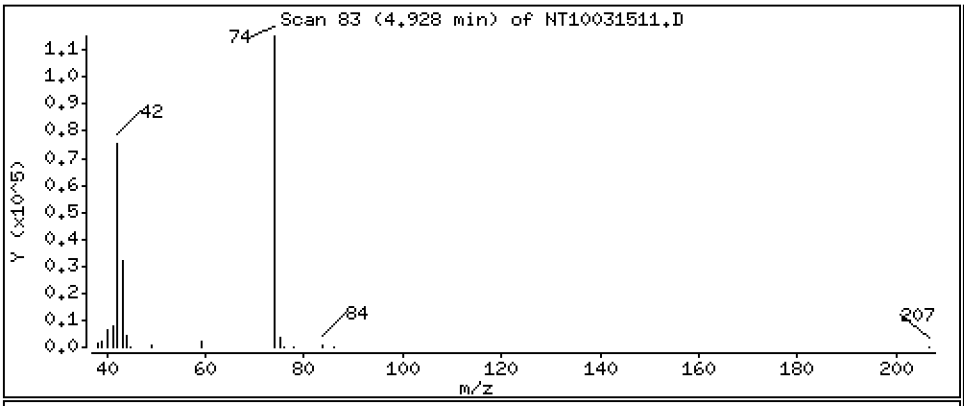
Operator: VTS

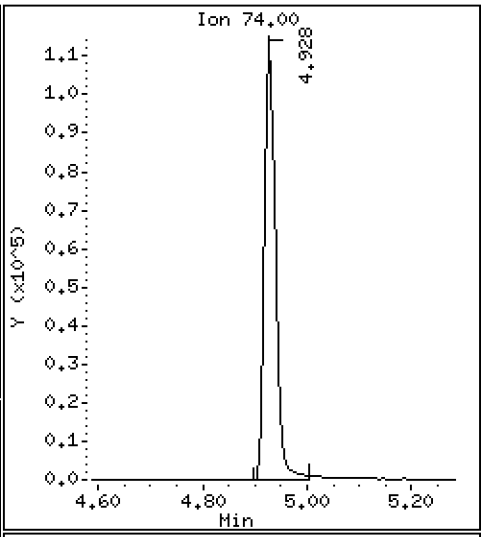
Column phase: ZB-5msi

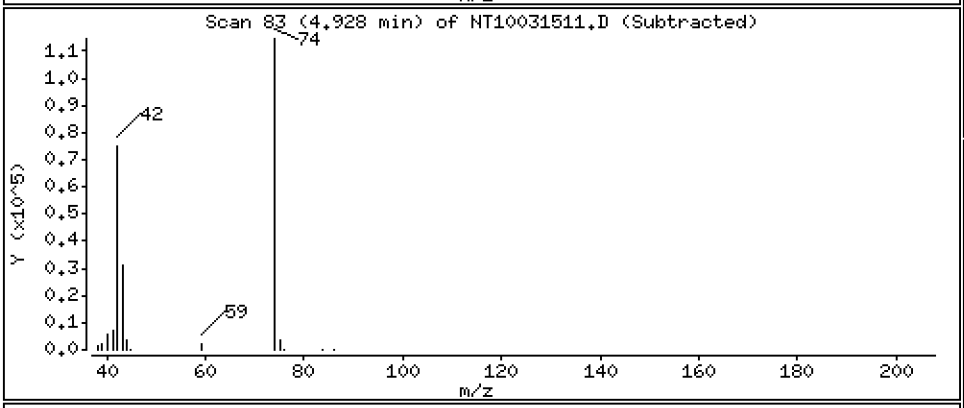
Column diameter: 0.25

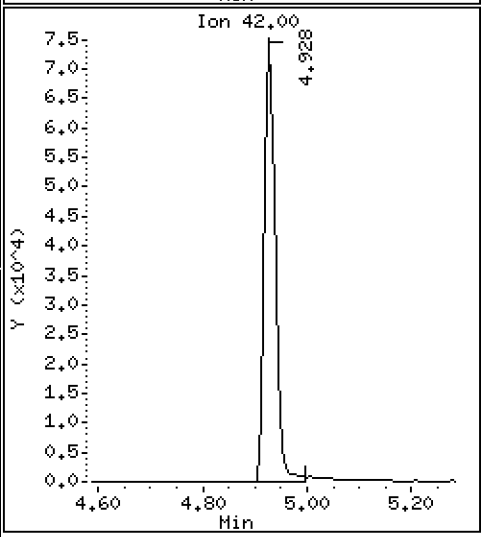
90 N-Nitrosodimethylamine

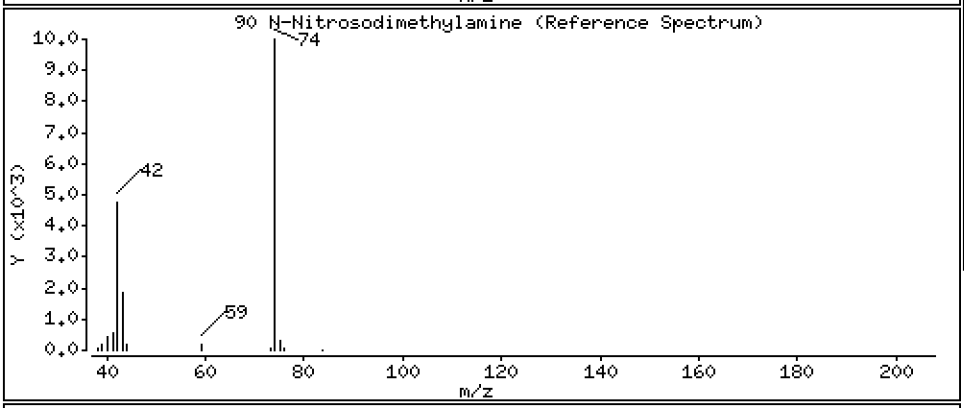
Concentration: 5.194 ug/mL

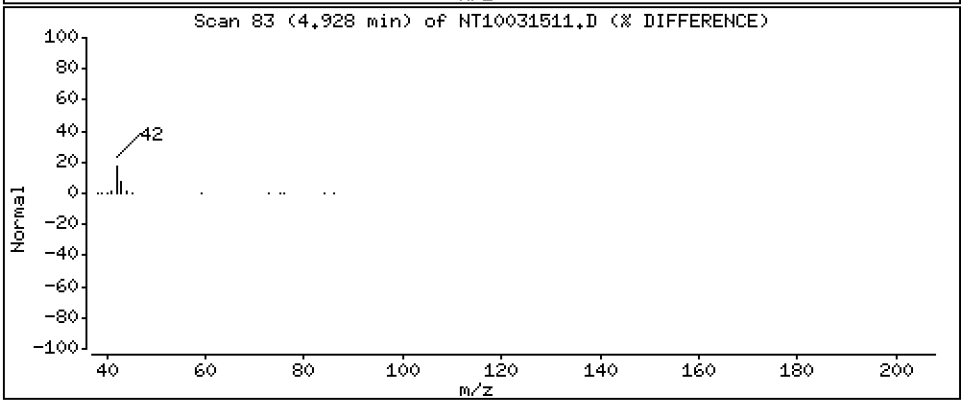












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

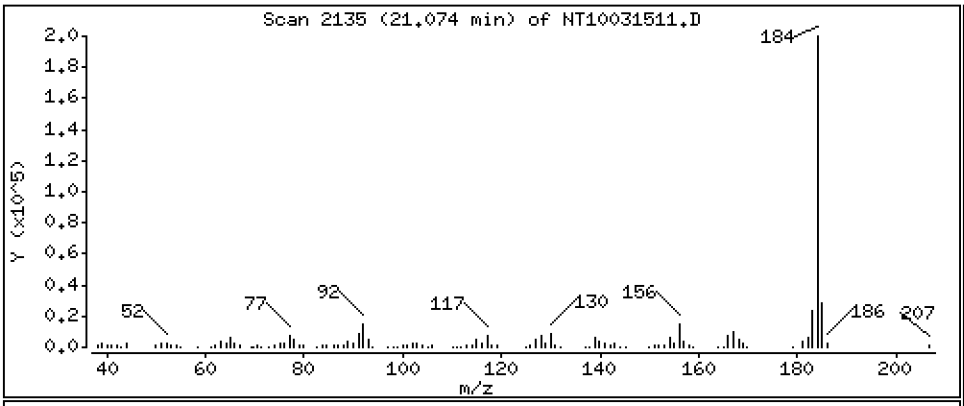
Operator: VTS

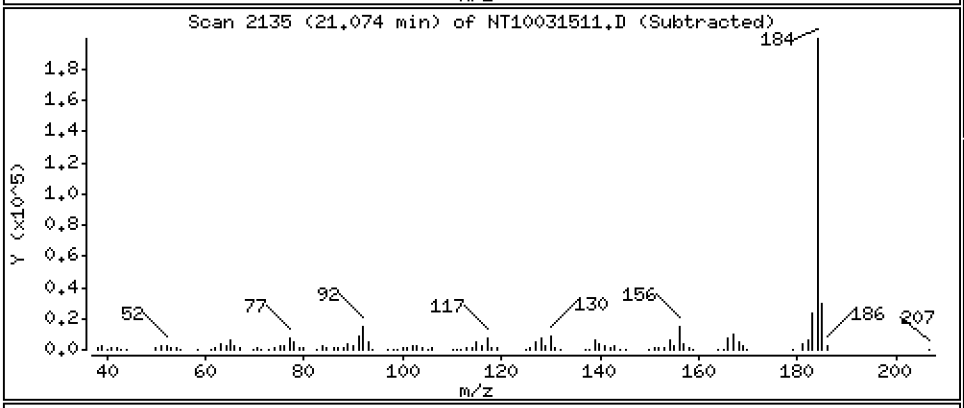
Column phase: ZB-5msi

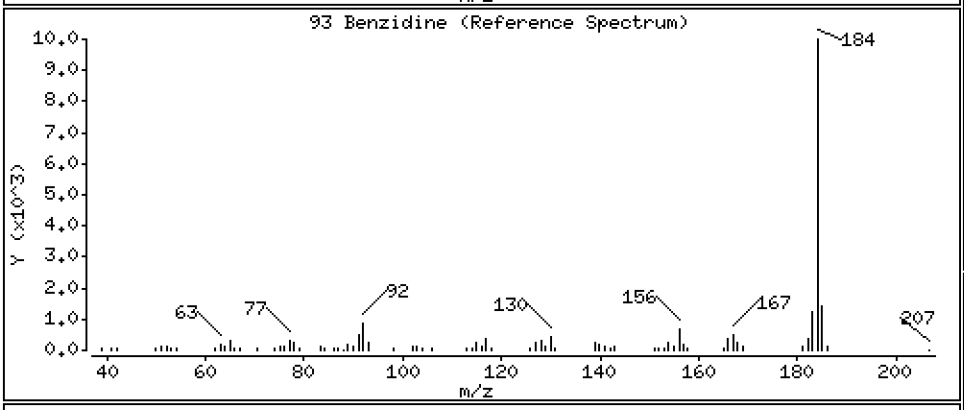
Column diameter: 0.25

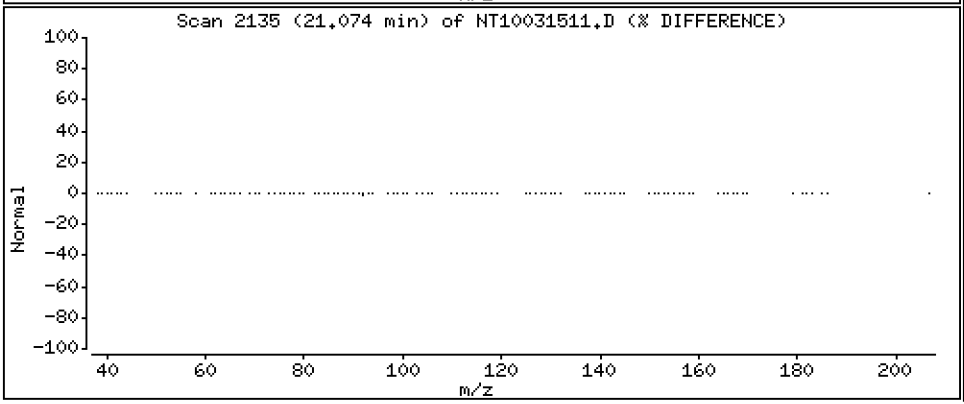
93 Benzidine

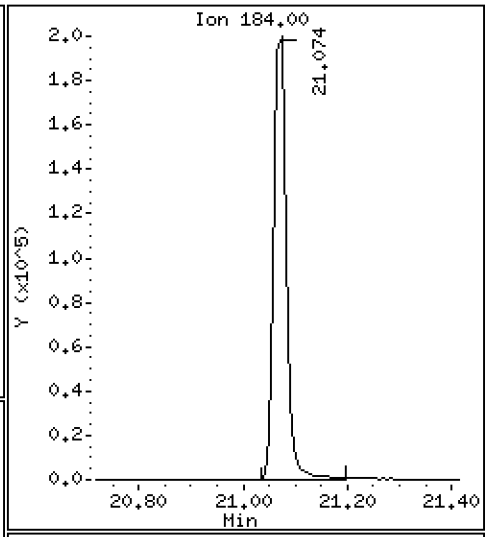
Concentration: 4.380 ug/mL

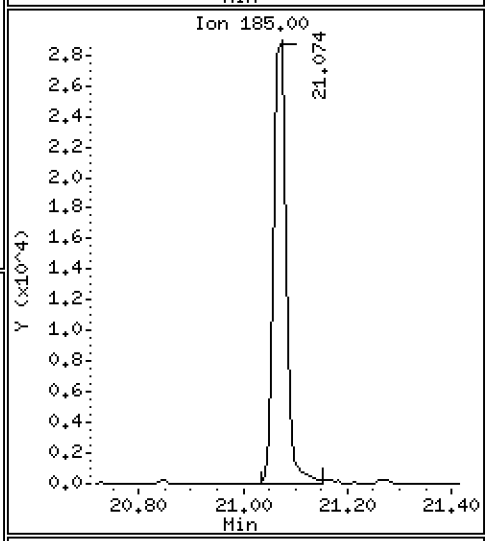


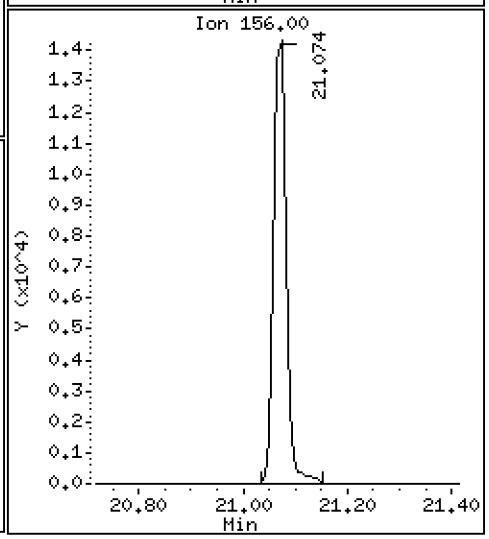












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

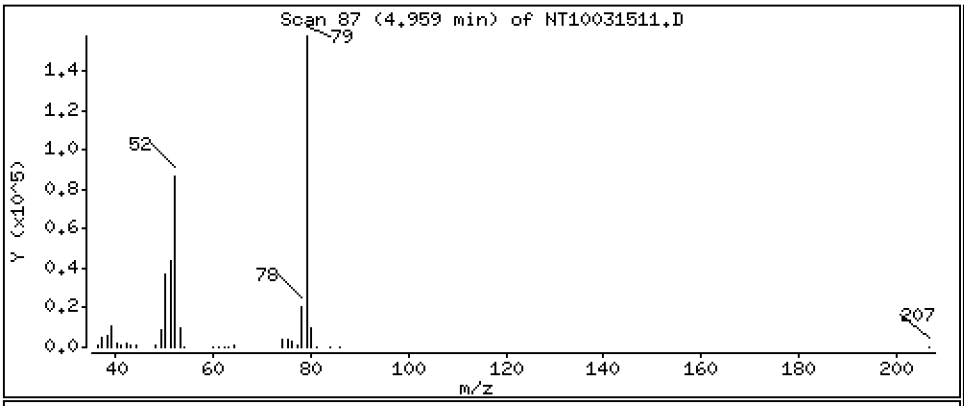
Operator: VTS

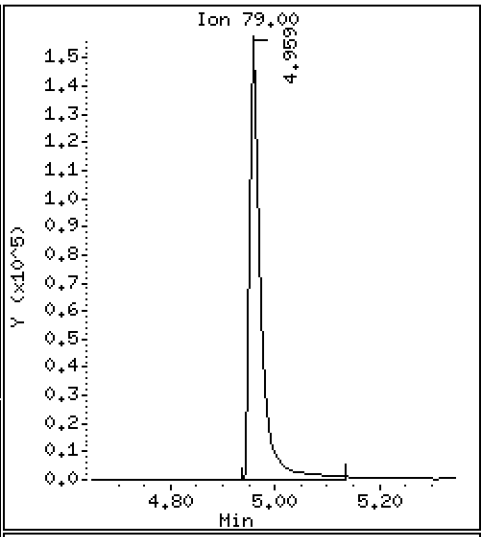
Column phase: ZB-5msi

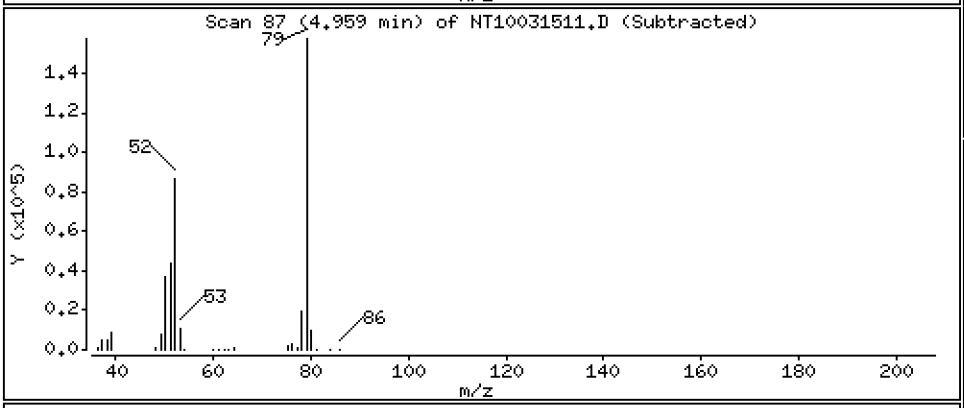
Column diameter: 0.25

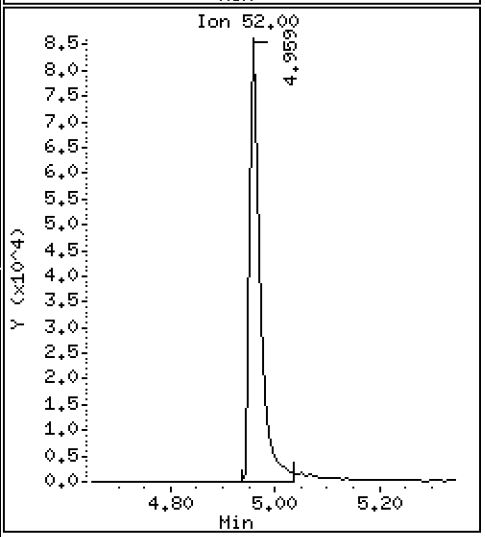
103 Pyridine

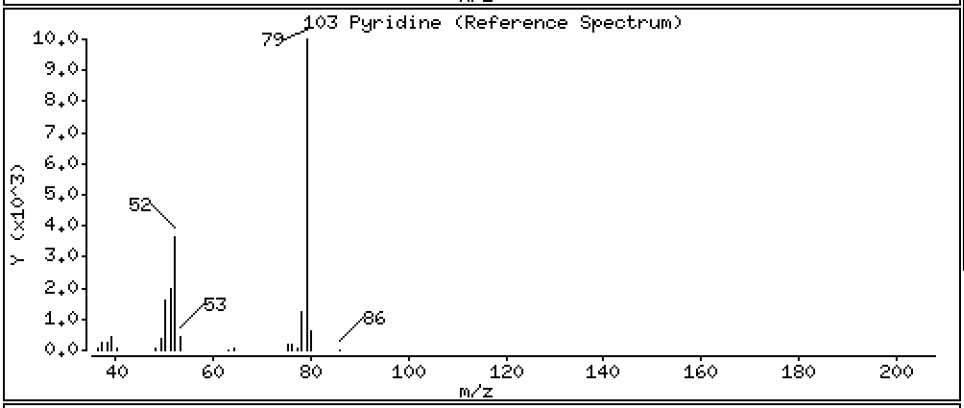
Concentration: 5.337 ug/mL

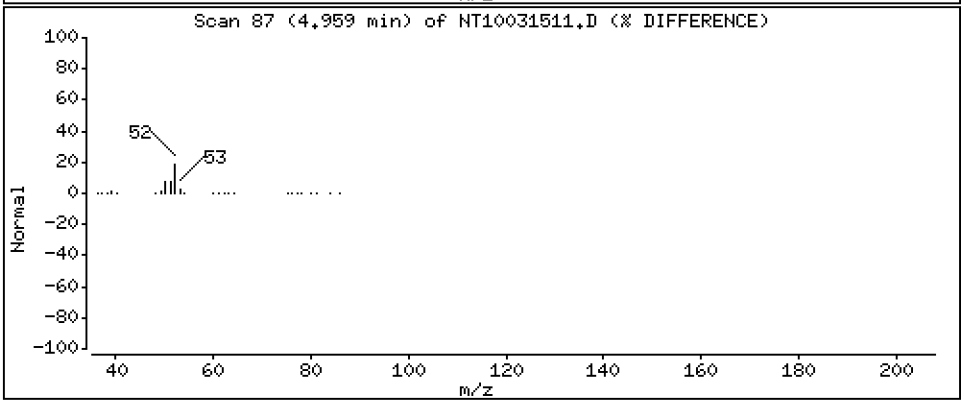












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

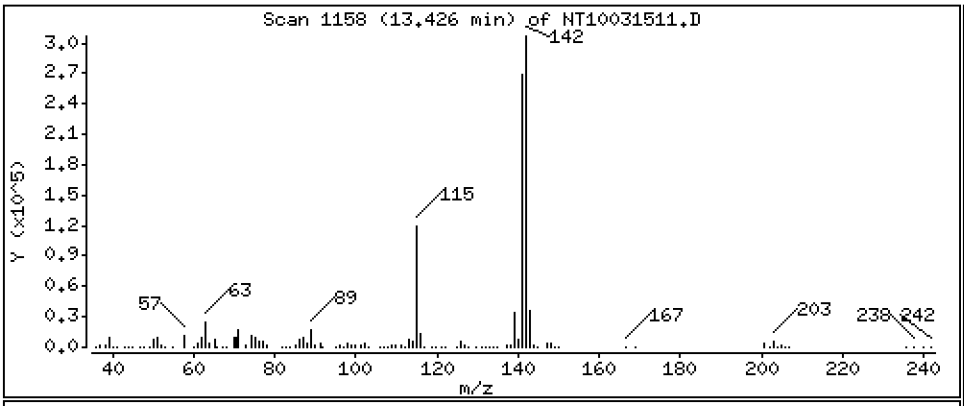
Operator: VTS

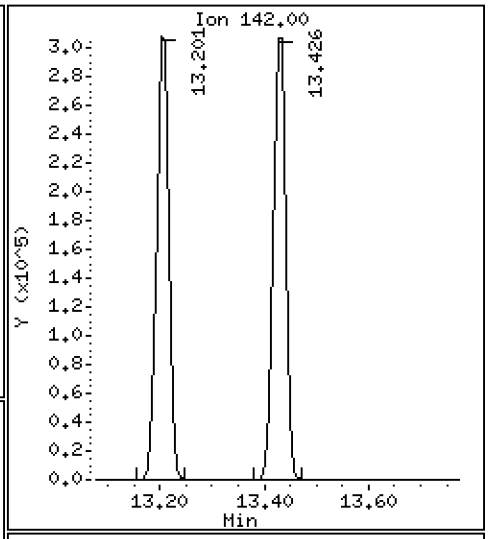
Column phase: ZB-5msi

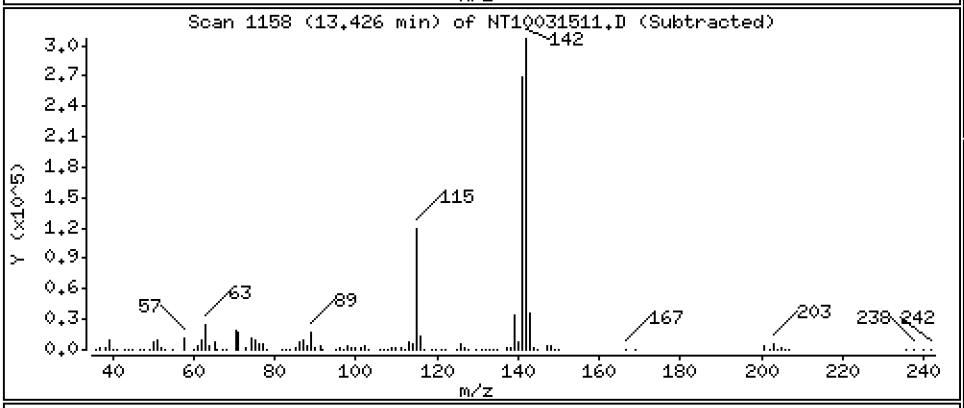
Column diameter: 0.25

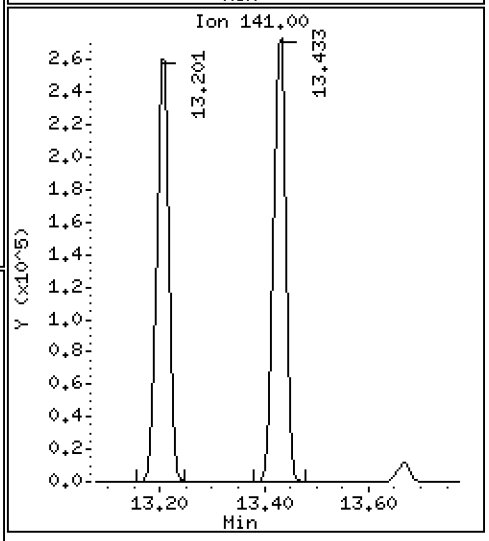
105 1-methylnaphthalene

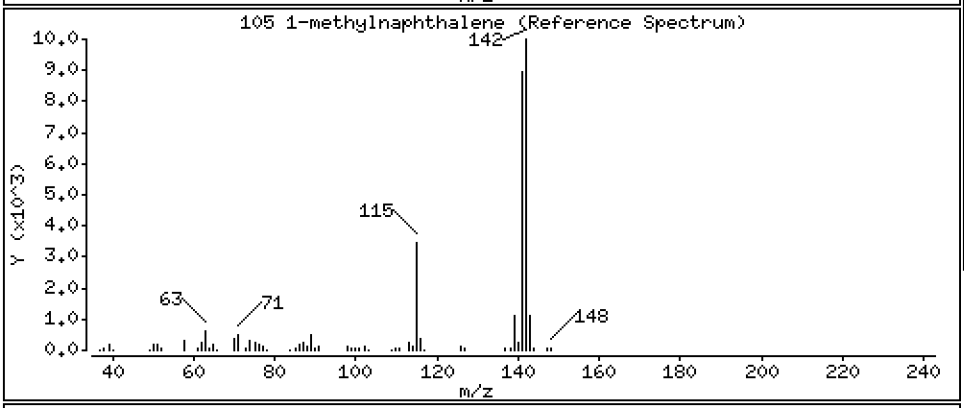
Concentration: 4.875 ug/mL

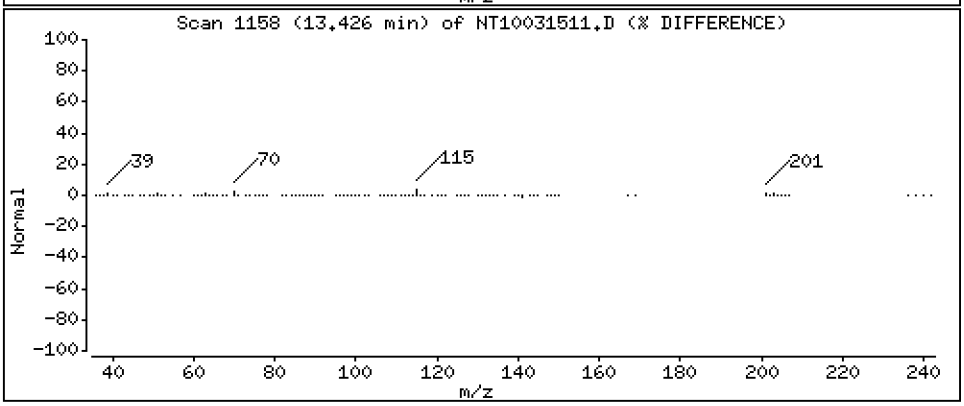












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

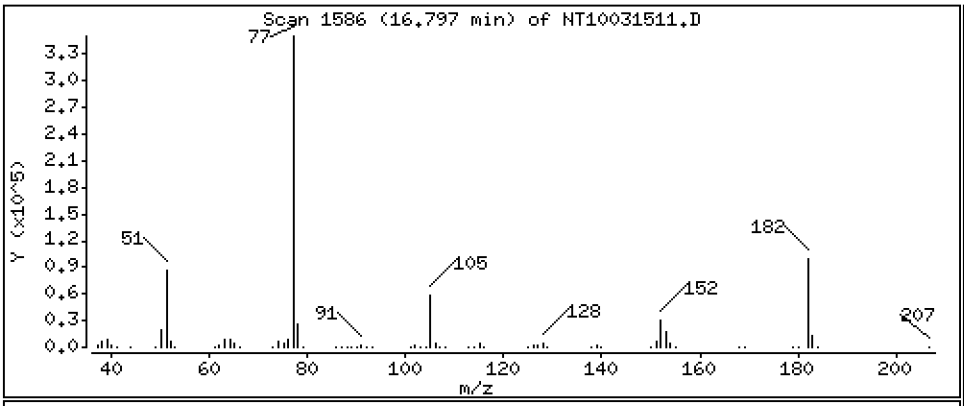
Operator: VTS

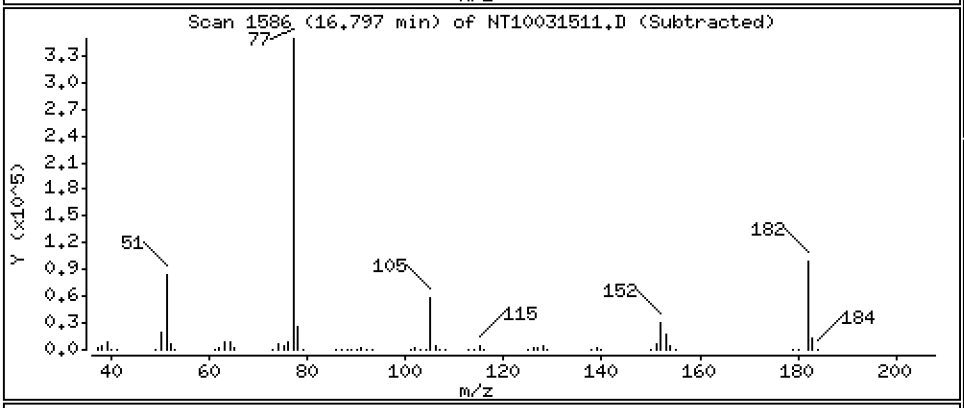
Column phase: ZB-5msi

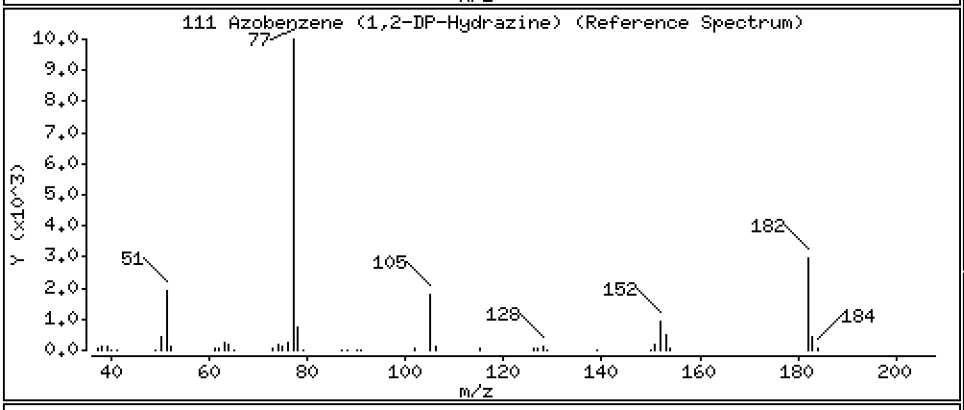
Column diameter: 0.25

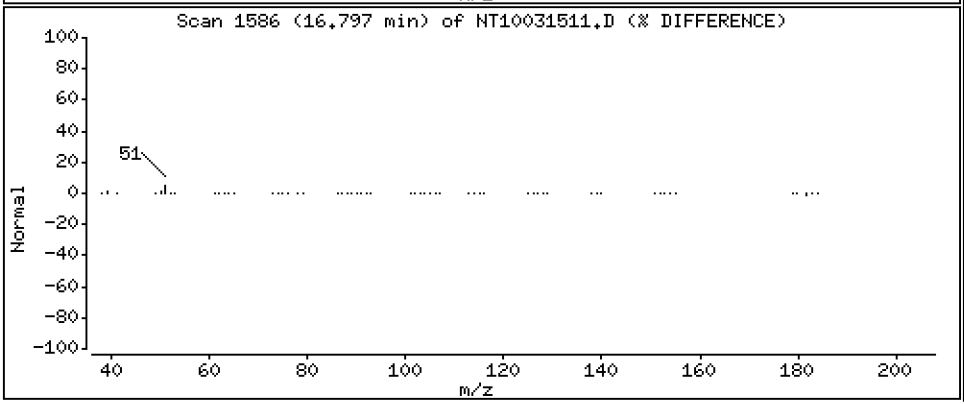
111 Azobenzene (1,2-DP-Hydrazine)

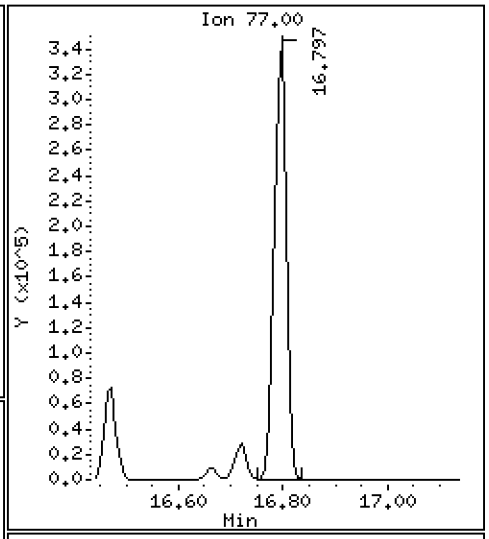
Concentration: 4.937 ug/mL

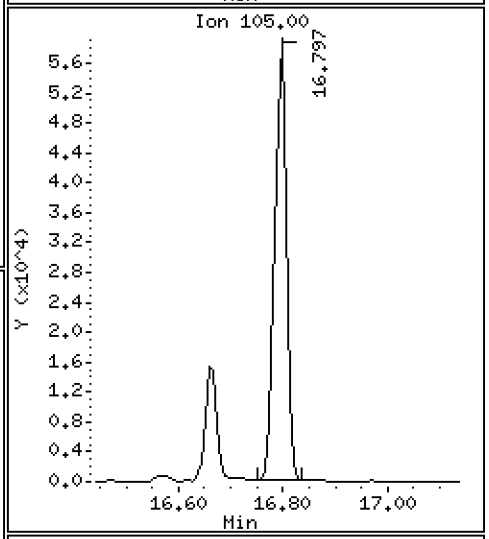


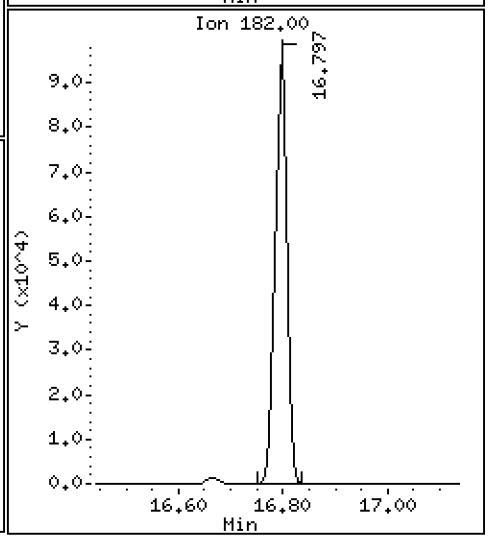












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

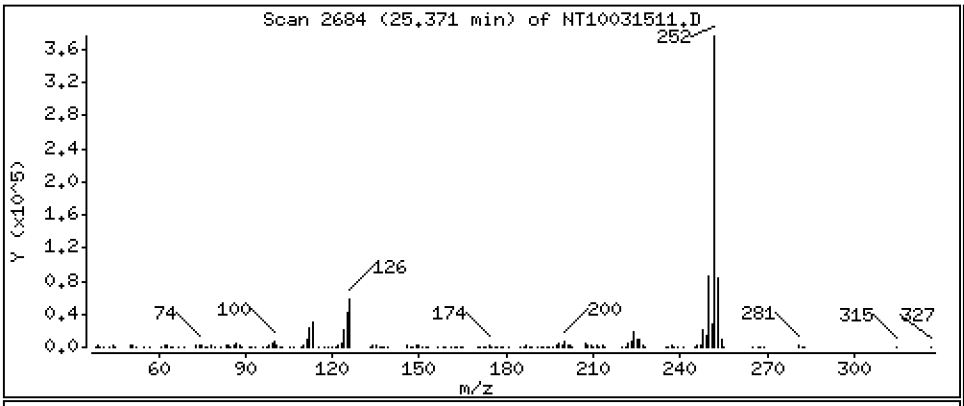
Operator: VTS

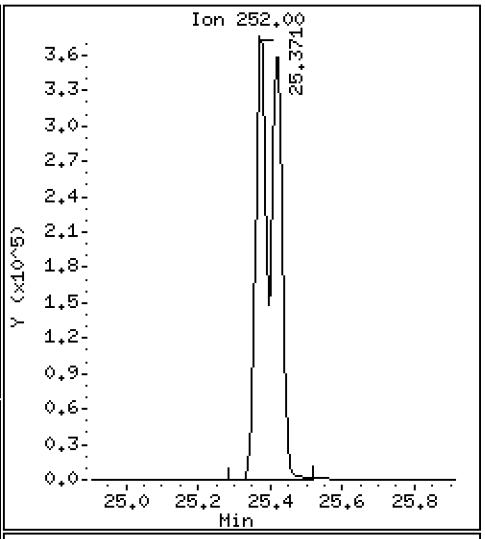
Column phase: ZB-5msi

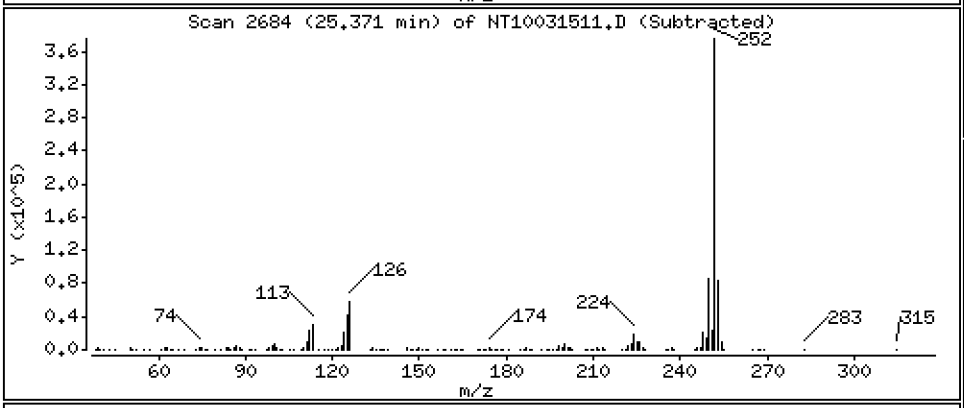
Column diameter: 0.25

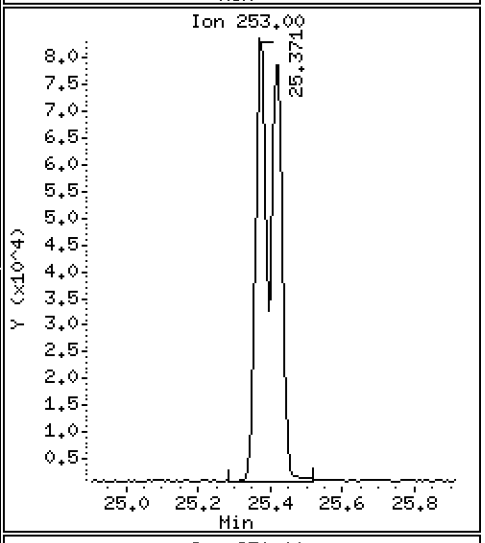
187 Total Benzofluoranthenes

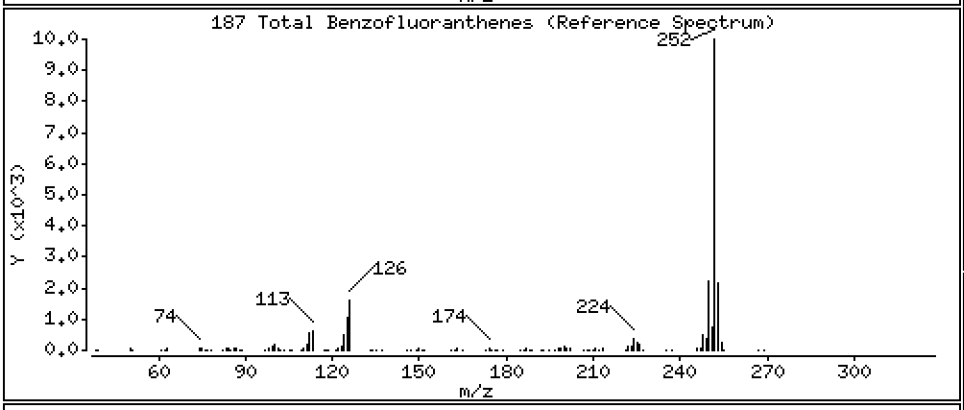
Concentration: 9.483 ug/mL

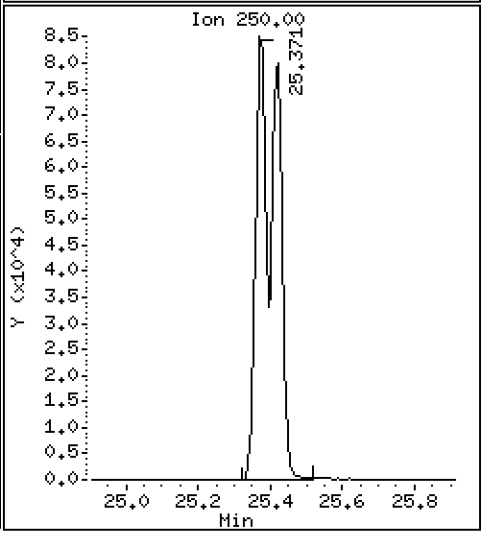


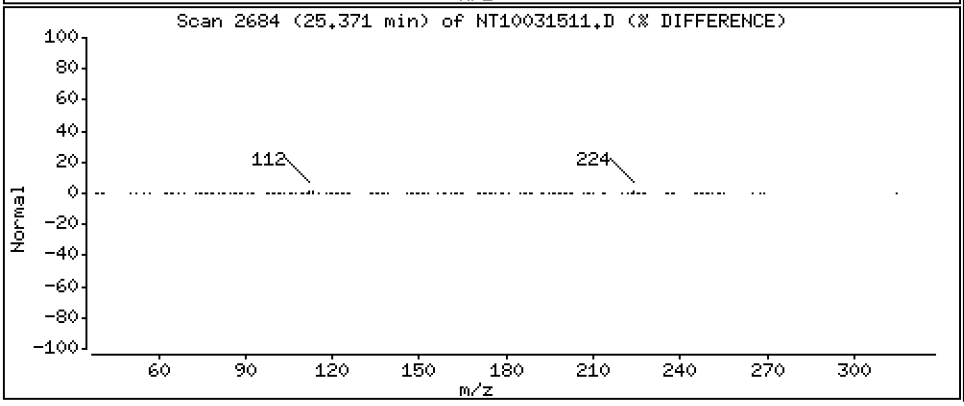












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

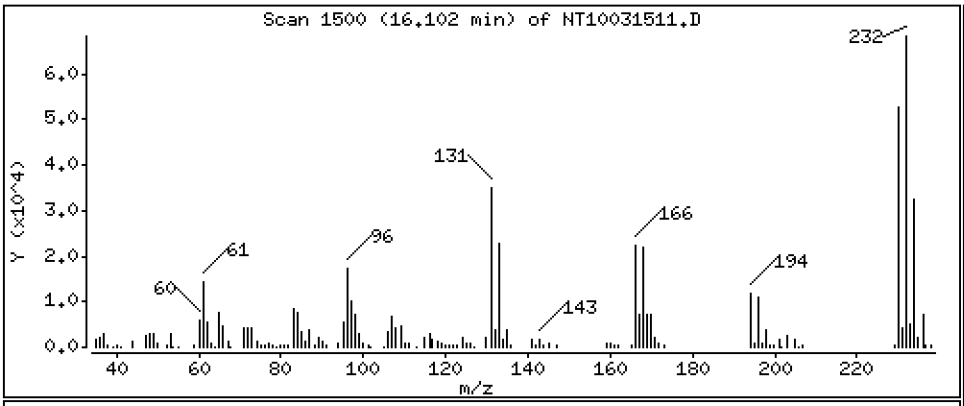
Operator: VTS

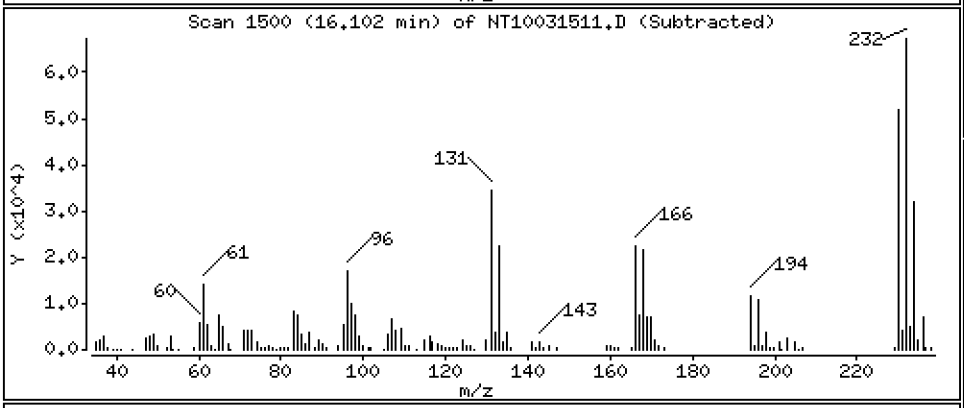
Column phase: ZB-5msi

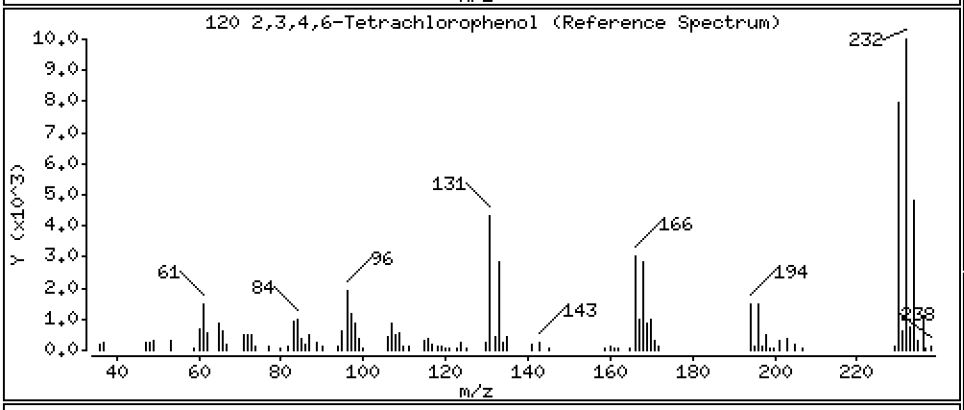
Column diameter: 0.25

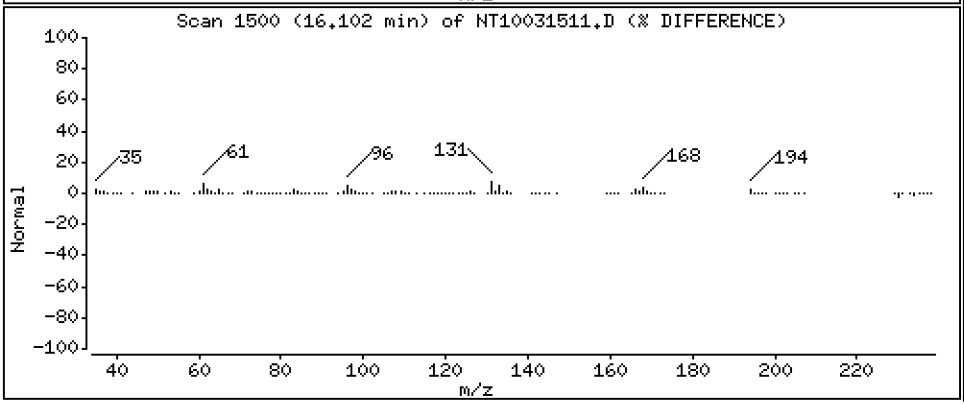
120 2,3,4,6-Tetrachlorophenol

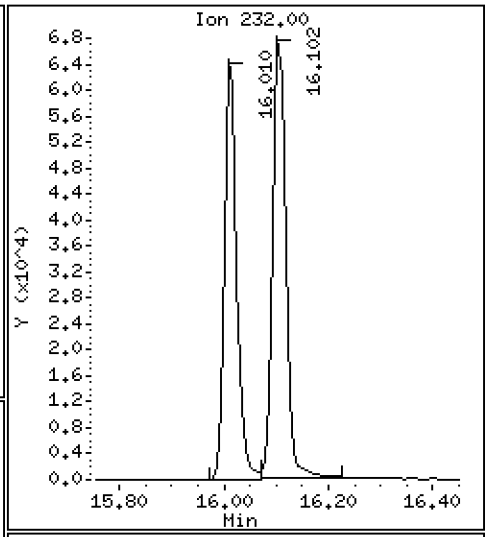
Concentration: 3.980 ug/mL

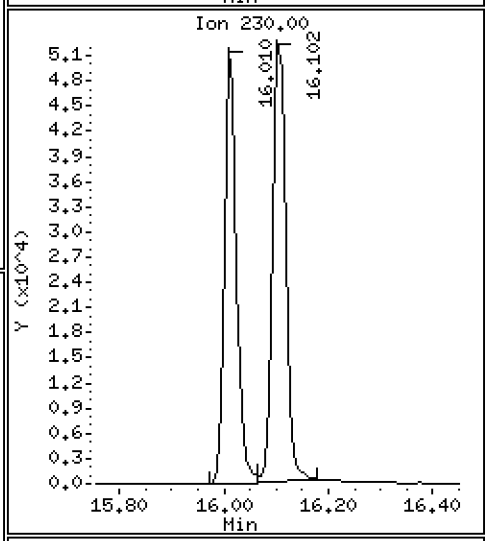


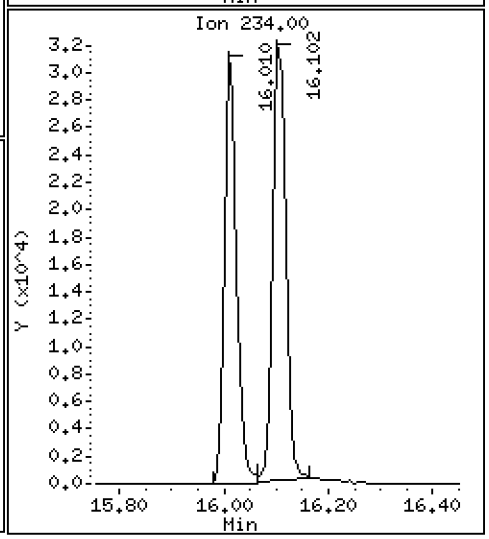












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230315.b\NT10031511.D
Lab Smp Id: SLC0228-SCV1
Inj Date : 16-MAR-2023 02:16
Operator : VTS Inst ID: nt10.i
Smp Info : SLC0228-SCV1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230315.b\ABN.m
Meth Date : 16-Mar-2023 12:06 van Quant Type: ISTD
Cal Date : 16-MAR-2023 00:22 Cal File: NT10031508.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
$ 1	2-Fluorophenol	112	Compound Not Detected.					
$ 2	Phenol-d5	99	Compound Not Detected.					
3	Phenol	94	8.659	8.652	(0.931)	281600	4.41237	4.412
$ 5	2-Chlorophenol-d4	132	Compound Not Detected.					
4	Bis(2-Chloroethyl)ether	93	8.837	8.837	(0.950)	248892	5.25818	5.258
6	2-Chlorophenol	128	8.960	8.961	(0.963)	233608	4.27685	4.277
7	1,3-Dichlorobenzene	146	9.239	9.231	(0.993)	275540	4.77157	4.772
* 8	1,4-Dichlorobenzene-d4	152	9.301	9.293	(1.000)	154809	4.00000	
9	1,4-Dichlorobenzene	146	9.332	9.325	(1.003)	274051	4.91272	4.913
$ 10	1,2-Dichlorobenzene-d4	152	Compound Not Detected.					
12	1,2-Dichlorobenzene	146	9.689	9.682	(1.042)	268028	4.88215	4.882
11	Benzyl alcohol	108	9.557	9.557	(1.028)	147597	4.92722	4.927
14	2,2'-oxybis(1-Chloropropane)	121	9.860	9.860	(1.060)	100179	6.21363	6.214
13	2-Methylphenol	108	9.775	9.767	(1.051)	196115	4.21542	4.215
17	Hexachloroethane	117	10.279	10.271	(1.105)	114513	5.00332	5.003
16	N-Nitroso-di-n-propylamine	70	10.116	10.108	(1.088)	190250	5.17896	5.179
15	4-Methylphenol	108	10.046	10.031	(1.080)	213951	4.36462	4.365
$ 18	Nitrobenzene-d5	82	Compound Not Detected.					
19	Nitrobenzene	77	10.426	10.419	(0.885)	274714	4.85798	4.858
20	Isophorone	82	10.861	10.861	(0.922)	556741	7.69604	7.696
21	2-Nitrophenol	139	11.047	11.048	(0.938)	110302	3.99452	3.995
22	2,4-Dimethylphenol	107	11.081	11.082	(0.941)	188638	3.63181	3.632
23	Bis(2-Chloroethoxy)methane	93	11.285	11.285	(0.958)	273219	5.65409	5.654
24	Benzoic acid	105	11.217	11.166	(0.952)	173961	5.95241	5.952
25	2,4-Dichlorophenol	162	11.489	11.489	(0.975)	195480	4.70301	4.703
26	1,2,4-Trichlorobenzene	180	11.685	11.685	(0.992)	222176	4.55366	4.554
* 27	Naphthalene-d8	136	11.777	11.770	(1.000)	570882	4.00000	
28	Naphthalene	128	11.816	11.816	(1.003)	713318	4.71662	4.717
29	4-Chloroaniline	127	11.940	11.940	(1.014)	223402	3.78650	3.787
30	Hexachlorobutadiene	225	12.171	12.172	(1.033)	138198	4.83404	4.834
31	4-Chloro-3-methylphenol	107	12.876	12.876	(1.093)	208794	4.64027	4.640
32	2-Methylnaphthalene	142	13.201	13.201	(1.121)	501627	4.59617	4.596
33	Hexachlorocyclopentadiene	237	13.665	13.665	(0.888)	132827	4.72902	4.729

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
34	2,4,6-Trichlorophenol	196	13.820	13.820	(0.898)	137849	4.59559	4.596
35	2,4,5-Trichlorophenol	196	13.889	13.890	(0.903)	146935	4.40855	4.409
$ 36	2-Fluorobiphenyl	172	Compound Not Detected.					
37	2-Chloronaphthalene	162	14.199	14.191	(0.923)	466196	4.79589	4.796
38	2-Nitroaniline	65	14.454	14.447	(0.940)	134108	4.91137	4.911
39	Dimethylphthalate	163	14.880	14.873	(0.967)	486790	4.93747	4.937
40	Acenaphthylene	152	15.074	15.066	(0.980)	727839	4.80509	4.805
41	2,6-Dinitrotoluene	165	15.020	15.012	(0.976)	112840	5.29815	5.298
* 42	Acenaphthene-d10	164	15.383	15.383	(1.000)	303490	4.00000	
43	3-Nitroaniline	138	15.306	15.298	(0.995)	120530	5.01393	5.014
44	Acenaphthene	153	15.453	15.445	(1.005)	446914	4.77589	4.776
45	2,4-Dinitrophenol	184	15.515	15.515	(1.009)	27409	2.12395	2.124
46	Dibenzofuran	168	15.777	15.770	(1.026)	641379	4.64790	4.648
47	4-Nitrophenol	109	15.600	15.592	(1.014)	59816	3.96568	3.966
48	2,4-Dinitrotoluene	165	15.824	15.817	(1.029)	144262	4.51019	4.510
50	Diethylphthalate	149	16.326	16.319	(1.061)	503887	5.20905	5.209
49	Fluorene	166	16.489	16.481	(1.072)	511113	4.70796	4.708
51	4-Chlorophenyl-phenylether	204	16.473	16.466	(1.071)	257762	4.99294	4.993
52	4-Nitroaniline	138	16.566	16.566	(1.077)	106701	4.92532	4.925
53	4,6-Dinitro-2-methylphenol	198	16.666	16.658	(0.905)	56867	3.51509	3.515
54	N-Nitrosodiphenylamine	169	16.720	16.712	(0.908)	342454	4.80180	4.802
$ 55	2,4,6-Tribromophenol	330	Compound Not Detected.					
56	4-Bromophenyl-phenylether	248	17.475	17.476	(0.949)	150956	5.05964	5.060
57	Hexachlorobenzene	284	17.800	17.793	(0.966)	143751	4.59553	4.596
58	Pentachlorophenol	266	18.149	18.149	(0.985)	75635	4.05676	4.057
* 59	Phenanthrene-d10	188	18.420	18.420	(1.000)	533431	4.00000	
60	Phenanthrene	178	18.466	18.466	(1.003)	669357	4.60181	4.602
61	Anthracene	178	18.559	18.559	(1.008)	581438	4.16715	4.167
62	Carbazole	167	18.884	18.884	(1.025)	591382	4.72989	4.730
63	Di-n-butylphthalate	149	19.665	19.666	(1.068)	830680	4.96738	4.967
64	Fluoranthene	202	20.841	20.841	(0.888)	782432	4.47248	4.472
65	Pyrene	202	21.267	21.267	(0.907)	778668	4.33892	4.339
$ 66	Terphenyl-d14	244	Compound Not Detected.					
67	Butylbenzylphthalate	149	22.459	22.460	(0.957)	314007	4.83397	4.834
68	Benzo(a)anthracene	228	23.427	23.419	(0.999)	714166	4.64722	4.647
* 69	Chrysene-d12	240	23.458	23.450	(1.000)	435381	4.00000	
70	3,3'-Dichlorobenzidine	252	23.373	23.373	(0.996)	483256	9.81738	9.817
71	Chrysene	228	23.497	23.489	(1.002)	677151	4.51017	4.510
72	bis(2-Ethylhexyl)phthalate	149	23.481	23.474	(0.959)	453669	4.67998	4.680
* 134	Di-n-octylphthalate-d4	153	24.487	24.480	(1.000)	660827	4.00000	
73	Di-n-octylphthalate	149	24.495	24.488	(1.000)	855562	4.94734	4.947
74	Benzo(b)fluoranthene	252	25.370	25.362	(0.969)	737887	4.60200	4.602(H)
75	Benzo(k)fluoranthene	252	25.416	25.409	(0.970)	797521	4.89839	4.898
76	Benzo(a)pyrene	252	26.067	26.052	(0.995)	698616	4.87338	4.873
* 77	Perylene-d12	264	26.191	26.183	(1.000)	494648	4.00000	
78	Indeno(1,2,3-cd)pyrene	276	29.005	28.990	(1.107)	834672	4.57655	4.577
79	Dibenzo(a,h)anthracene	278	29.021	29.005	(1.108)	688433	4.54663	4.547
80	Benzo(g,h,i)perylene	276	29.852	29.821	(1.140)	724463	4.59000	4.590
90	N-Nitrosodimethylamine	74	4.928	4.936	(0.530)	155126	5.19378	5.194
91	Aniline	93	Compound Not Detected.					
93	Benzidine	184	21.073	21.066	(0.898)	314737	4.37985	4.380
103	Pyridine	79	4.959	4.997	(0.533)	244801	5.33678	5.337
105	1-methylnaphthalene	142	13.425	13.425	(1.140)	487498	4.87520	4.875
111	Azobenzene (1,2-DP-Hydrazine)	77	16.797	16.789	(1.092)	533524	4.93744	4.937

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.370	25.409	(0.969)	1468165	9.48349	9.483
120 2,3,4,6-Tetrachlorophenol	232	16.102	16.103	(1.047)	124685	3.97959	3.980

QC Flag Legend

H - Operator selected an alternate compound hit.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT10031511.D
Lab Smp Id: SLC0228-SCV1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230315.b\ABN.m
Misc Info:

Calibration Date: 15-MAR-2023
Calibration Time: 21:50
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	171542	85771	343084	154809	-9.75
27 Naphthalene-d8	624466	312233	1248932	570882	-8.58
42 Acenaphthene-d10	337226	168613	674452	303490	-10.00
59 Phenanthrene-d10	572849	286425	1145698	533431	-6.88
69 Chrysene-d12	347068	173534	694136	435381	25.45
134 Di-n-octylphthala	500317	250159	1000634	660827	32.08
77 Perylene-d12	421549	210775	843098	494648	17.34

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.30	8.80	9.80	9.30	-0.00
27 Naphthalene-d8	11.78	11.28	12.28	11.78	0.01
42 Acenaphthene-d10	15.38	14.88	15.88	15.38	0.00
59 Phenanthrene-d10	18.42	17.92	18.92	18.42	0.00
69 Chrysene-d12	23.45	22.95	23.95	23.46	0.04
134 Di-n-octylphthala	24.48	23.98	24.98	24.49	0.03
77 Perylene-d12	26.18	25.68	26.68	26.19	0.03

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

REVIEW SUMMARY FOR FILE - NT10031511.D

Lab ID: SLC0228-SCV1
nt10.i, 20230315.b\ABN.m,   16-MAR-2023 02:16

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

** FIRST SURROGATE NOT FOUND. ICAL Check not performed **

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.952	0.000	0.9524	Benzoic acid

RRT check based on Ccal File: NT10031508.D

On Column LOD for nt10.i, 20230315.b\ABN.m, ICAL.sub = 0.0000

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

LOW-CONCENTRATION CALIBRATION VERIFICATION

EPA 8270E

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GC00046
Laboratory ID: SLC0451-LCV1
Sequence: SLC0451
Standard ID: K011105

ANALYTE	EXPECTED (ug/mL)	FOUND (ug/mL)	% DRIFT	QC LIMIT
Phenol	0.20000	0.2	-5.2	50.00
4-Methylphenol	0.20000	0.2	-17.2	50.00
Naphthalene	0.20000	0.2	5.2	50.00
2-Methylnaphthalene	0.20000	0.2	6.0	50.00
Acenaphthylene	0.20000	0.2	-1.7	50.00
Dimethylphthalate	0.20000	0.2	1.3	50.00
Acenaphthene	0.20000	0.2	2.9	50.00
Dibenzofuran	0.20000	0.2	1.4	50.00
Fluorene	0.20000	0.2	2.3	50.00
Phenanthrene	0.20000	0.2	3.4	50.00
Anthracene	0.20000	0.2	-10.3	50.00
Fluoranthene	0.20000	0.2	-14.4	50.00
Pyrene	0.20000	0.2	-8.6	50.00
Butylbenzylphthalate	0.20000	0.2	-11.3	50.00
Benzo(a)anthracene	0.20000	0.2	-2.1	50.00
Chrysene	0.20000	0.2	0.4	50.00
bis(2-Ethylhexyl)phthalate	0.20000	0.1	-29.4	50.00
Benzofluoranthenes, Total	0.40000	0.4	2.2	50.00
Benzo(a)pyrene	0.20000	0.2	-5.0	50.00
Indeno(1,2,3-cd)pyrene	0.20000	0.2	-2.4	50.00
Dibenzo(a,h)anthracene	0.20000	0.2	2.0	50.00
Benzo(g,h,i)perylene	0.20000	0.2	2.0	50.00
2-Fluorophenol	0.30000	0.281	-6.3	50.00
Phenol-d5	0.30000	0.263	-12.4	50.00
2-Chlorophenol-d4	0.30000	0.281	-6.5	50.00
1,2-Dichlorobenzene-d4	0.20000	0.213	6.6	50.00
Nitrobenzene-d5	0.20000	0.174	-13.1	50.00
2-Fluorobiphenyl	0.20000	0.208	4.1	50.00
2,4,6-Tribromophenol	0.30000	0.227	-24.2	50.00

LOW-CONCENTRATION CALIBRATION VERIFICATION
EPA 8270E

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GC00046
Laboratory ID: SLC0451-LCV1
Sequence: SLC0451
Standard ID: K011105

p-Terphenyl-d14	0.20000	0.197	-1.4	50.00

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212304.D

Page 1

Date : 21-MAR-2023 19:04

Client ID:

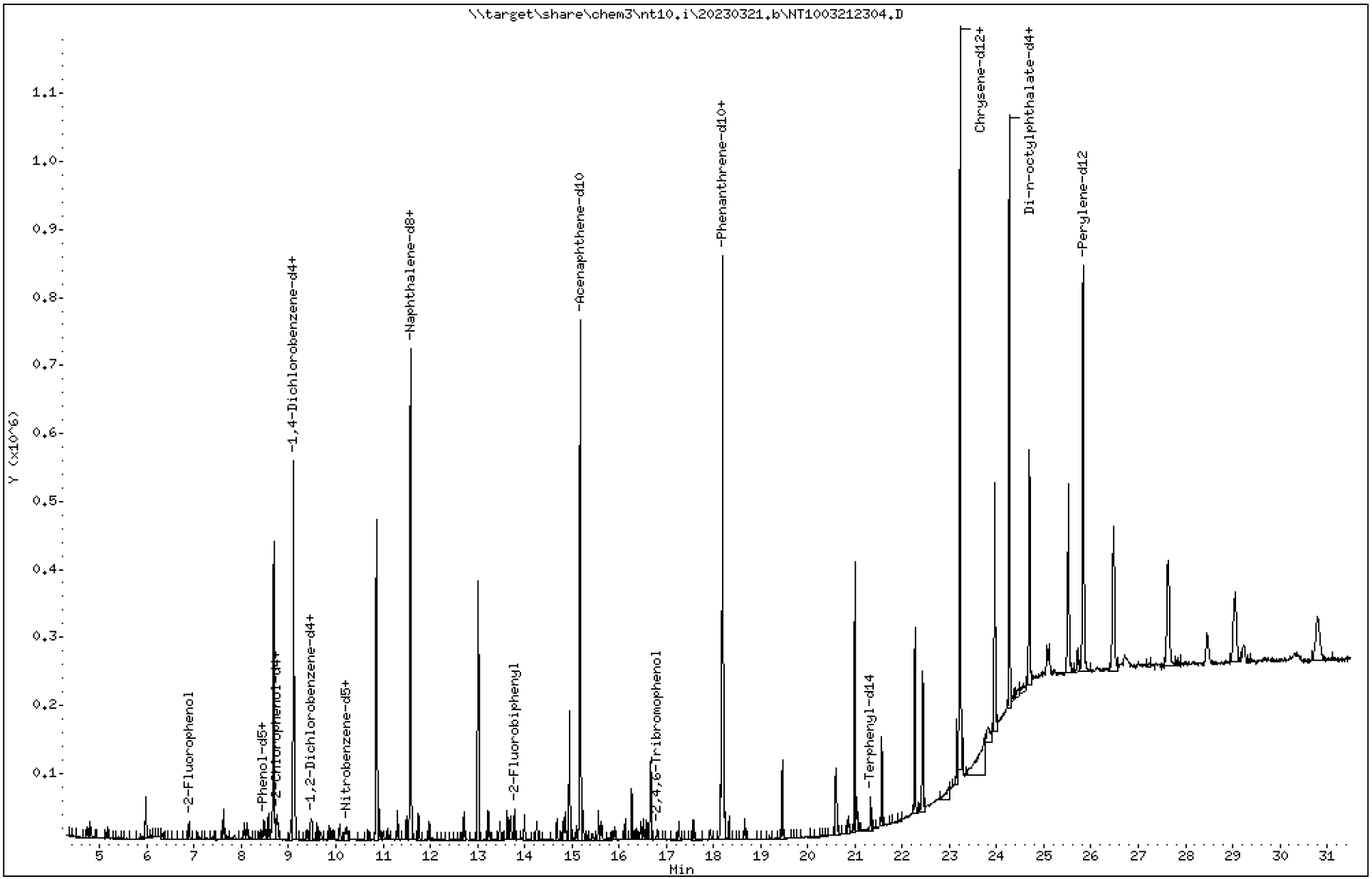
Instrument: nt10.i

Sample Info: SLC0451-LCV1

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

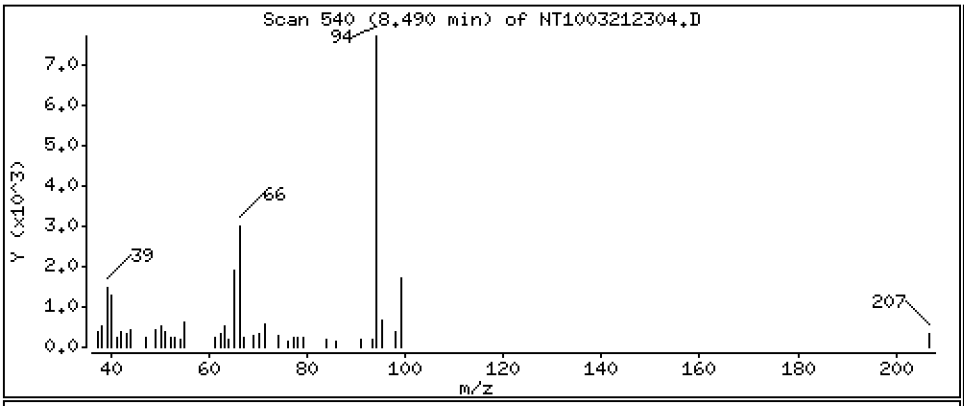
Operator: VTS

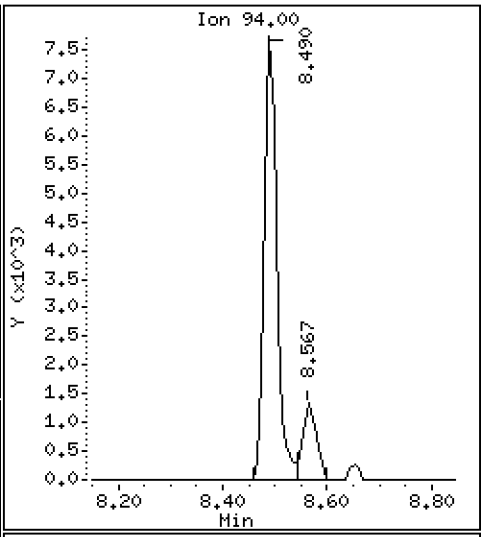
Column phase: ZB-5msi

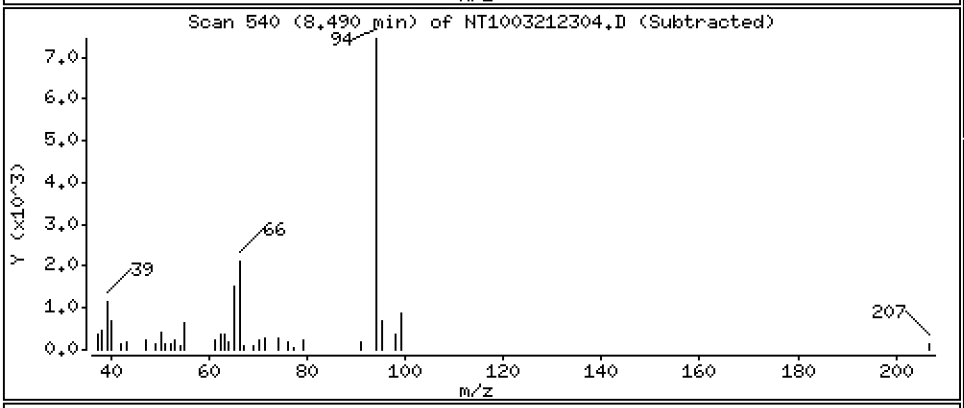
Column diameter: 0.25

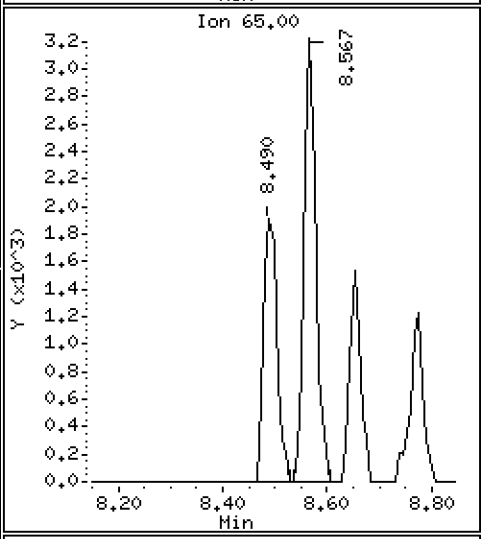
3 Phenol

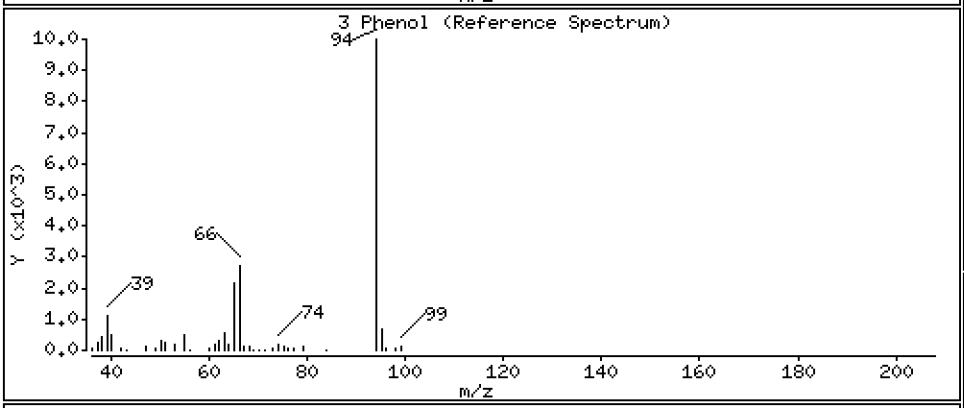
Concentration: 0.1896 ug/mL

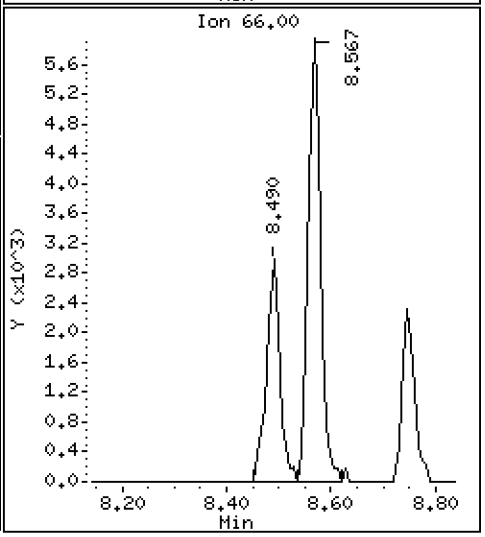


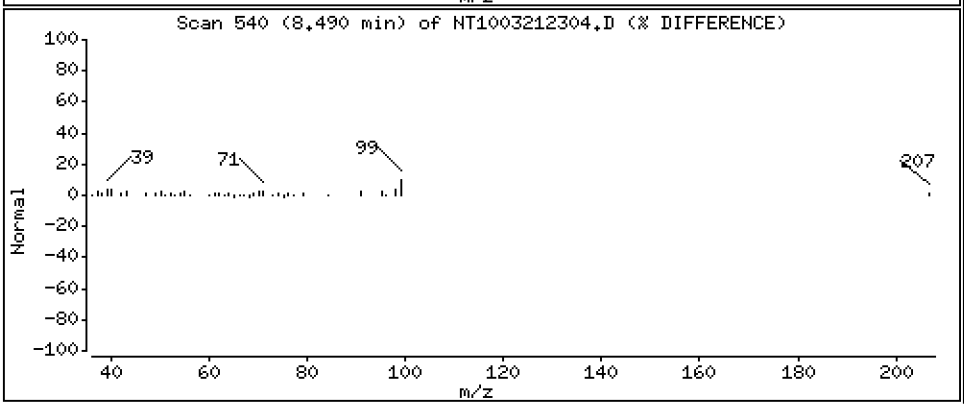












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

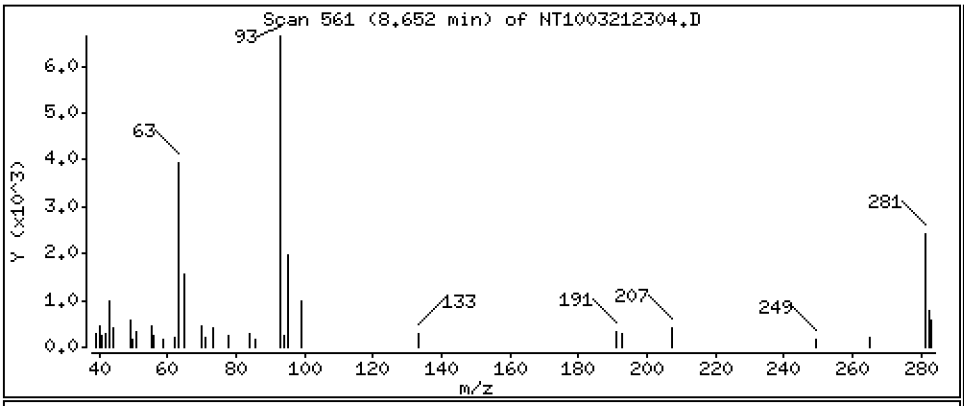
Operator: VTS

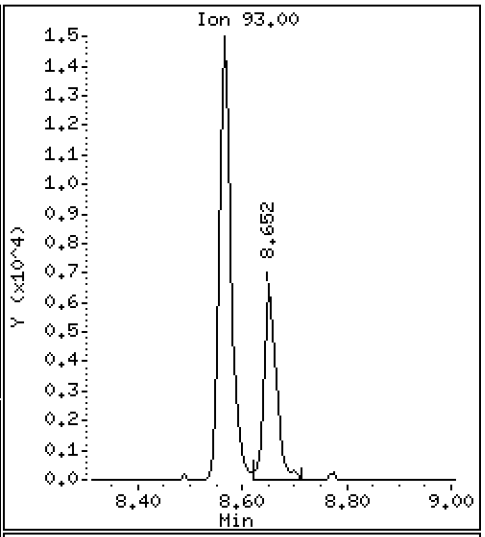
Column phase: ZB-5msi

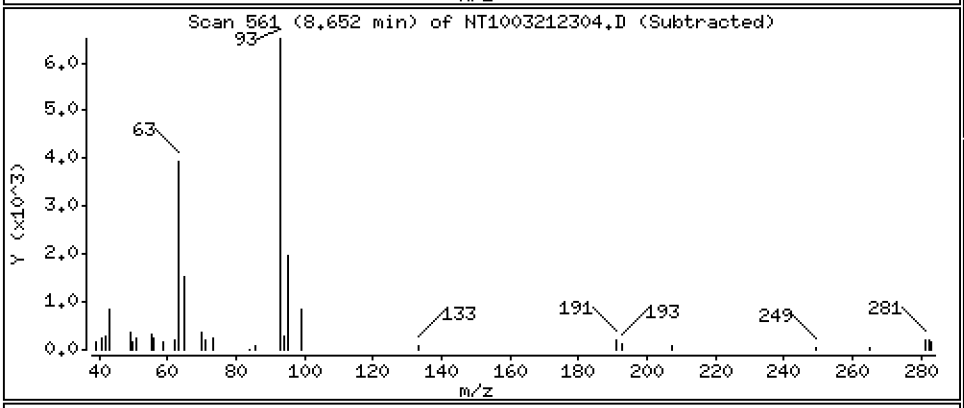
Column diameter: 0.25

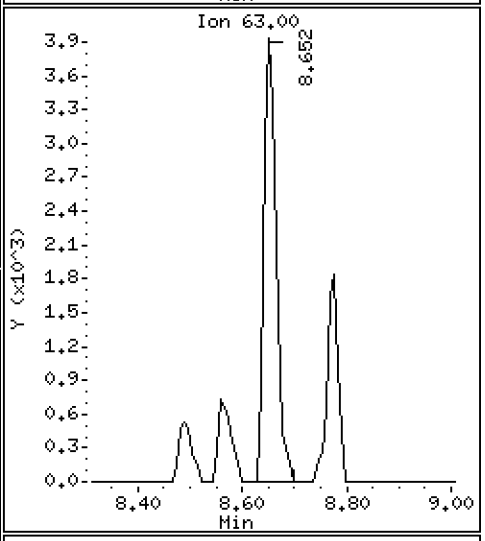
4 Bis(2-Chloroethyl)ether

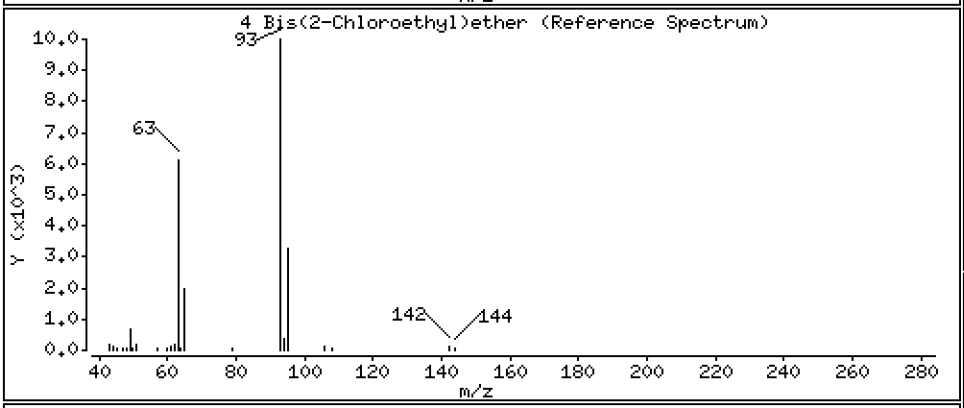
Concentration: 0.2161 ug/mL

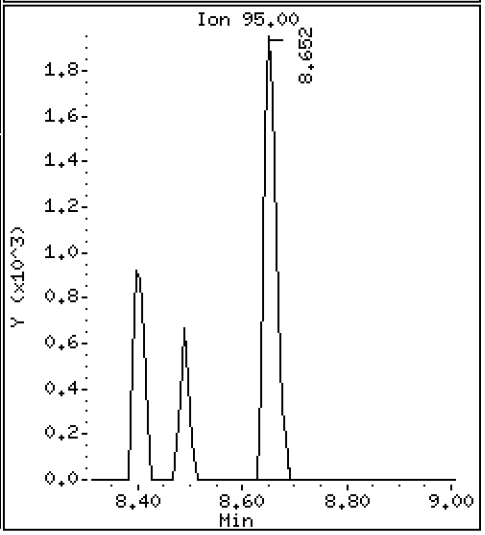


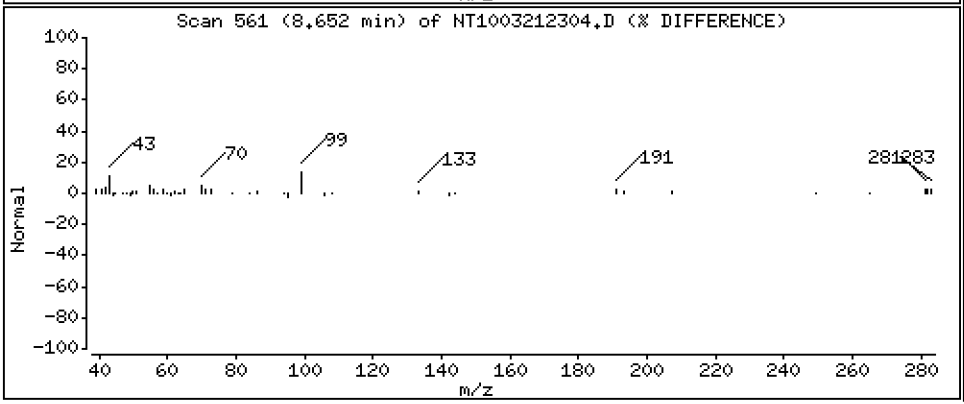












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

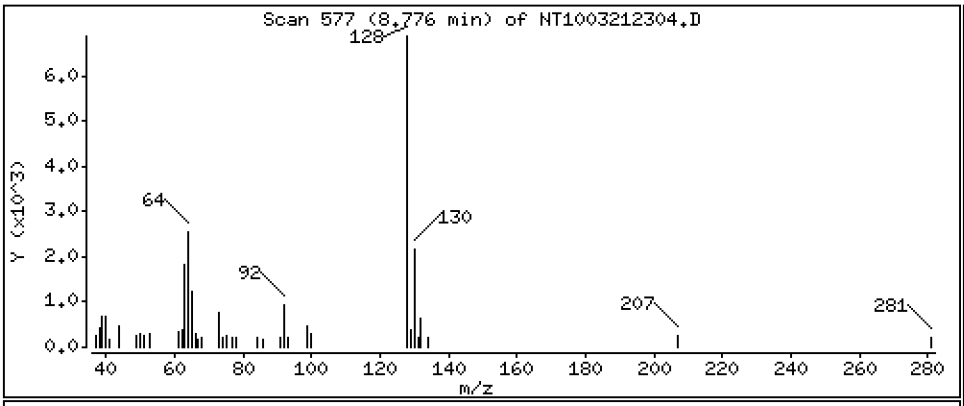
Operator: VTS

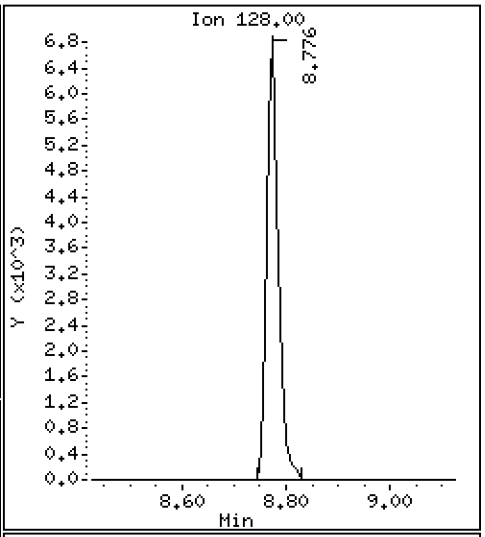
Column phase: ZB-5msi

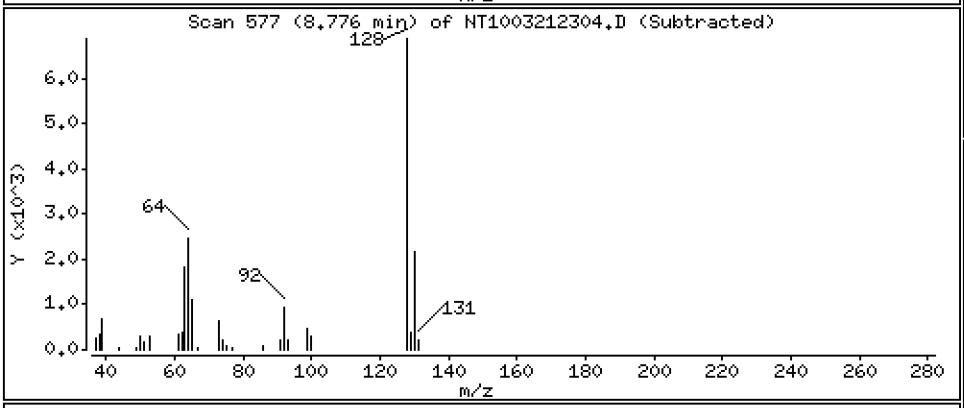
Column diameter: 0.25

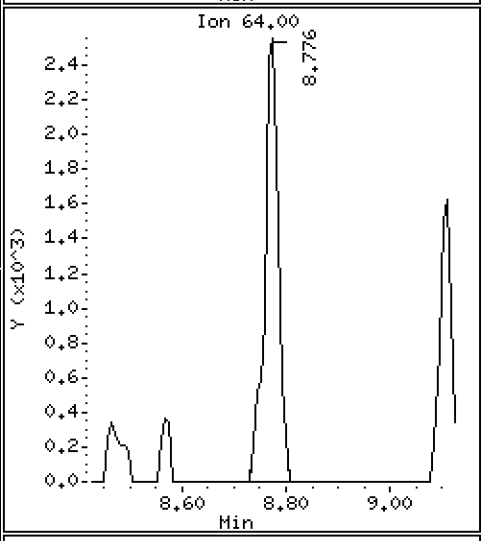
6 2-Chlorophenol

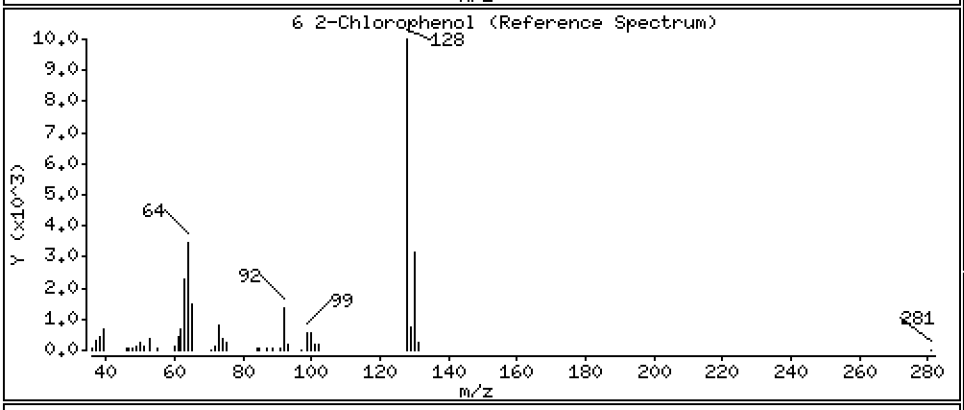
Concentration: 0.1878 ug/mL

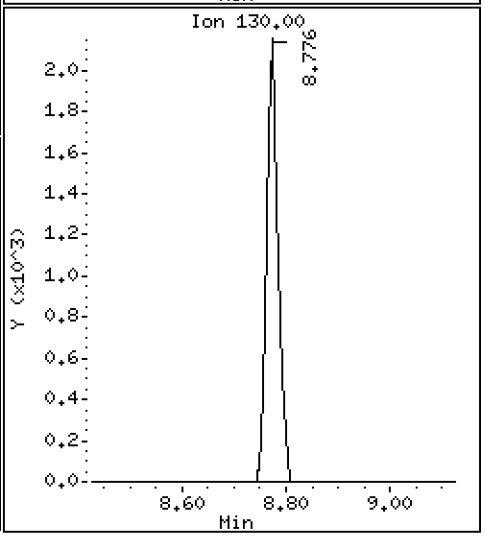


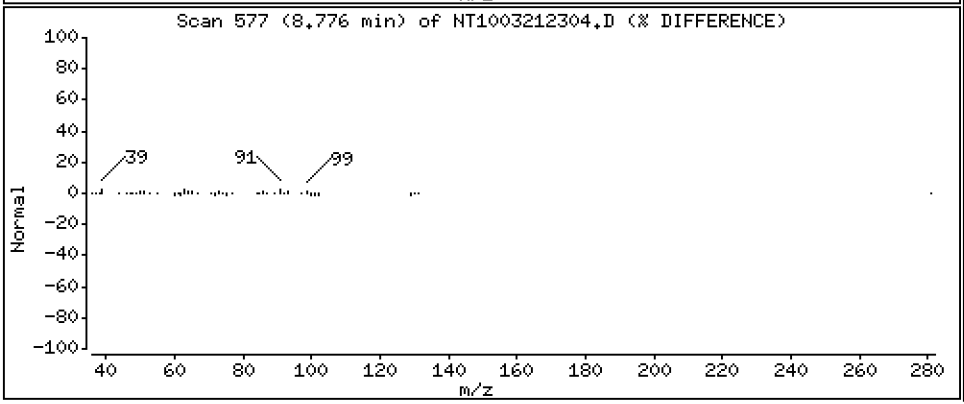












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

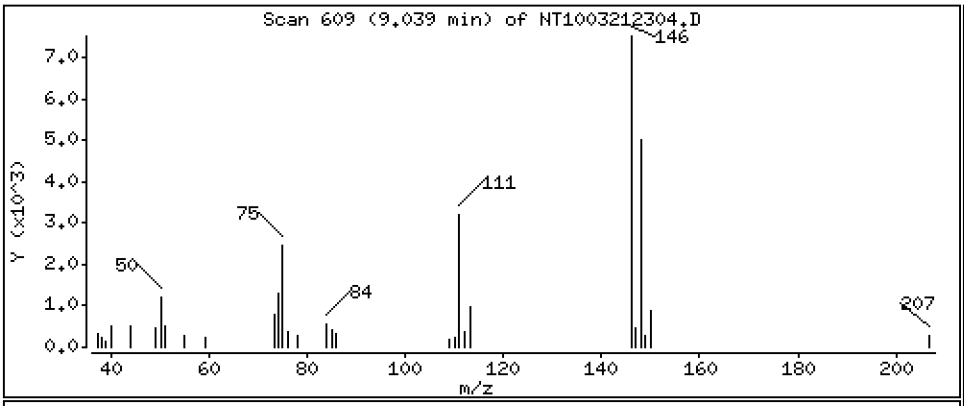
Operator: VTS

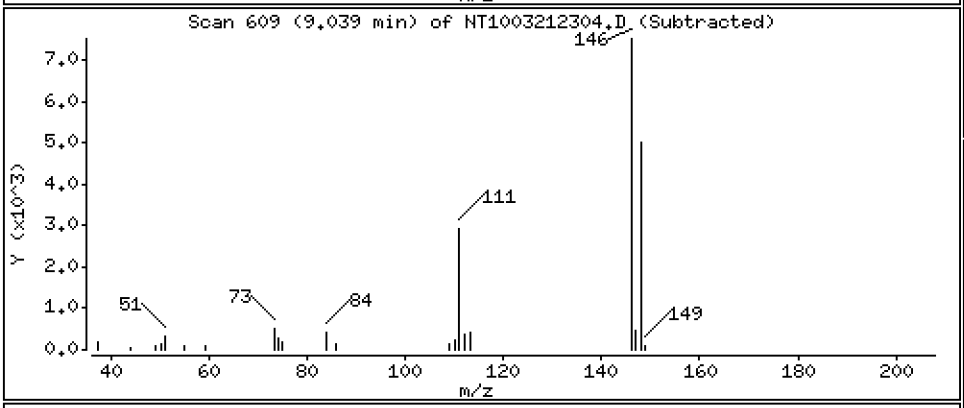
Column phase: ZB-5msi

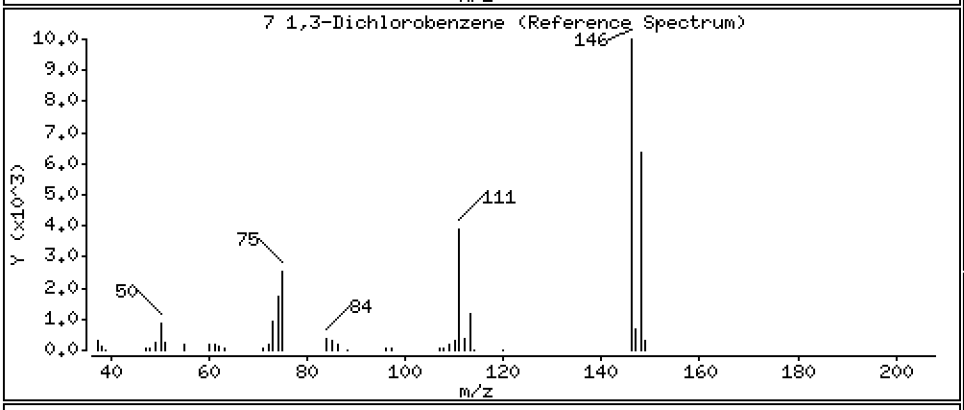
Column diameter: 0.25

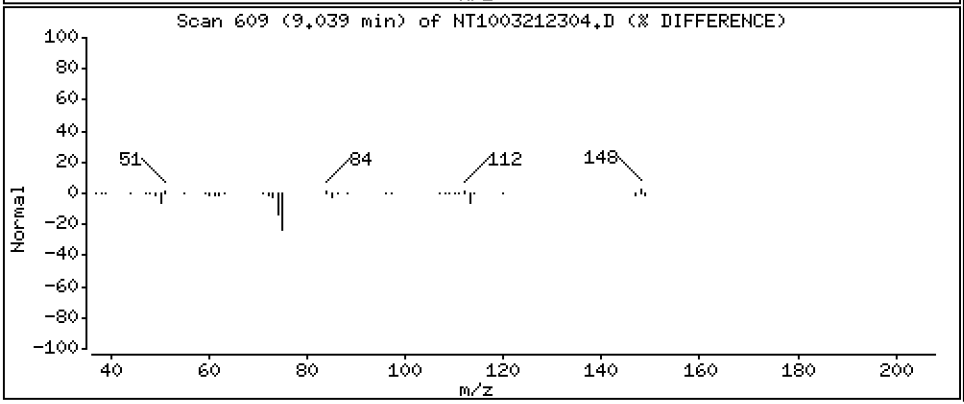
7 1,3-Dichlorobenzene

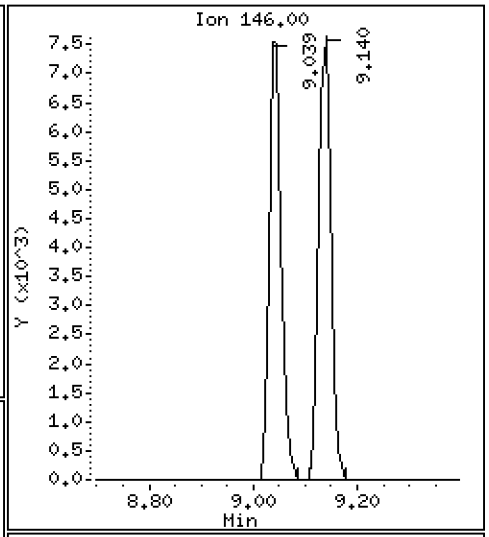
Concentration: 0.2056 ug/mL

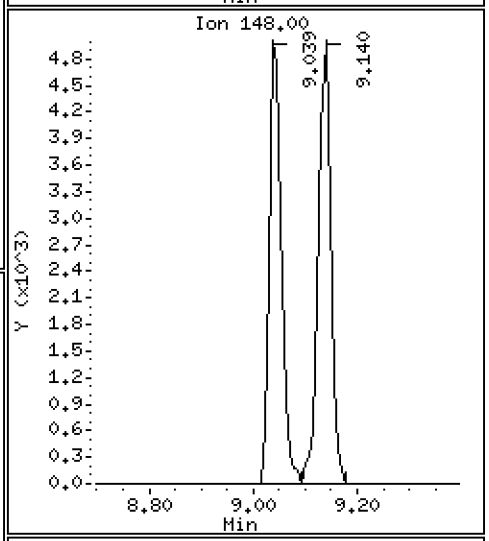


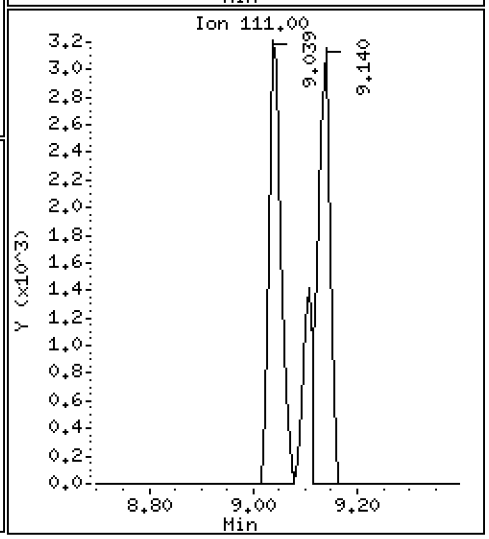












Date : 21-MAR-2023 19:04

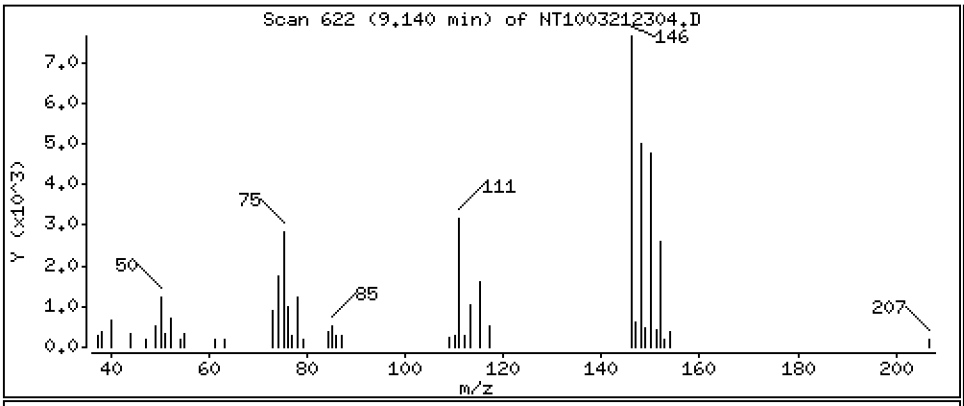
Client ID: Instrument: nt10.i

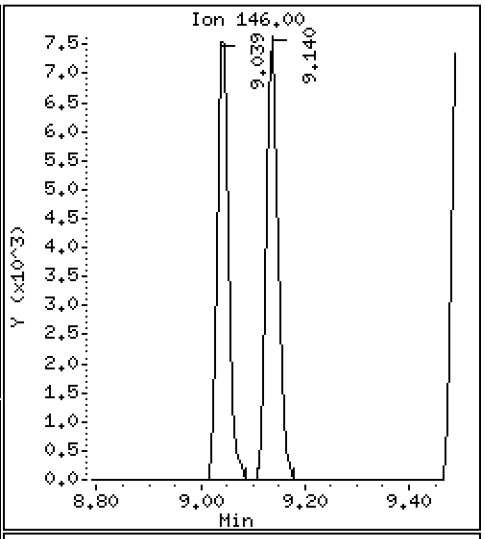
Sample Info: SLC0451-LCV1

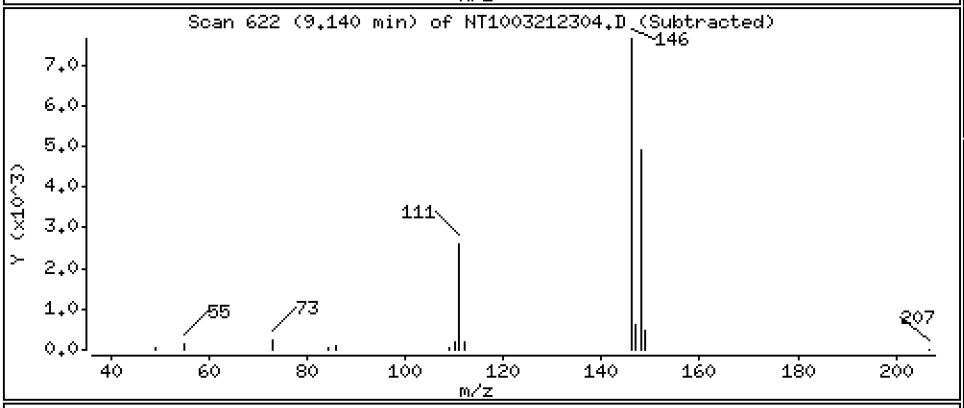
Operator: VTS

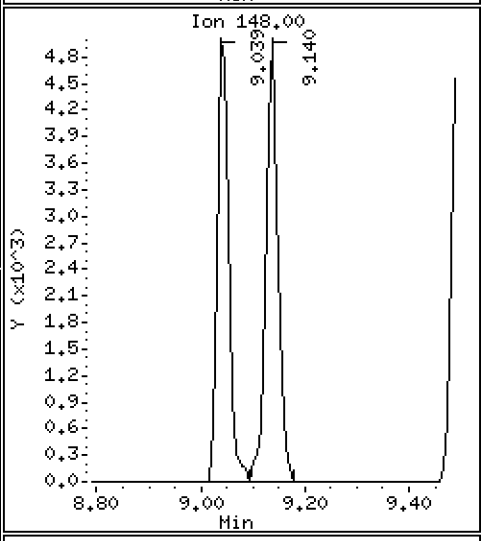
Column phase: ZB-5msi Column diameter: 0.25

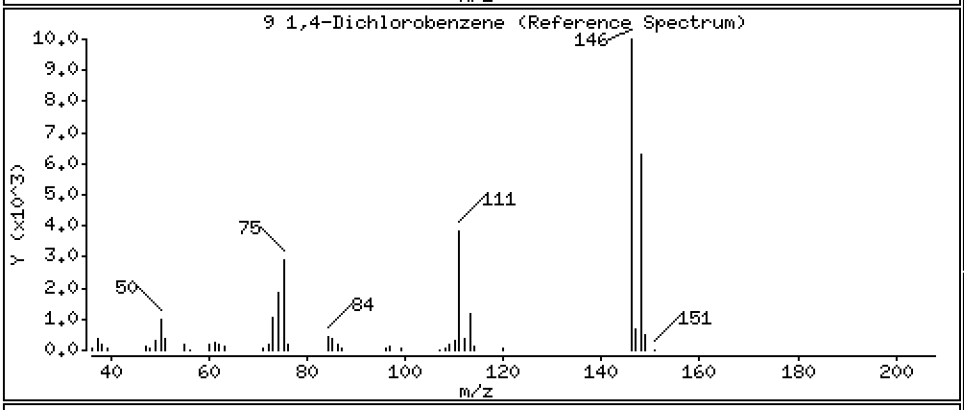
9 1,4-Dichlorobenzene Concentration: 0.2108 ug/mL

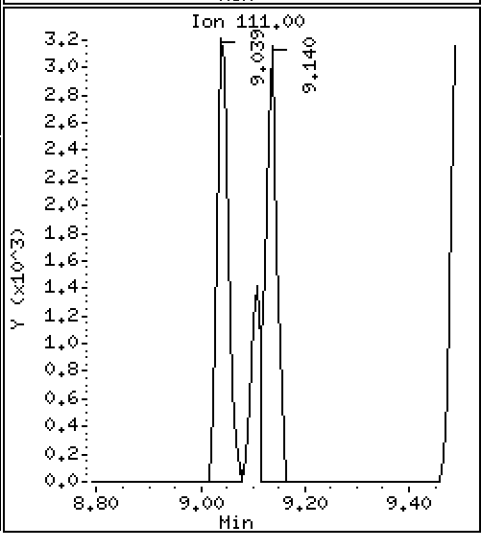


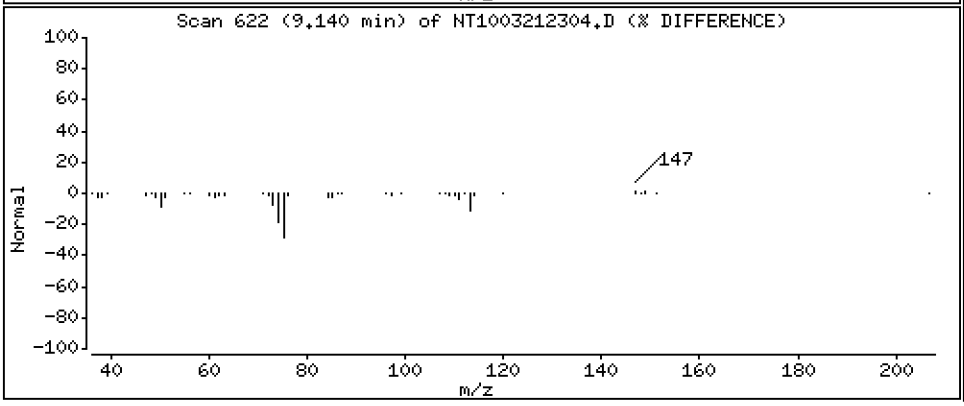












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

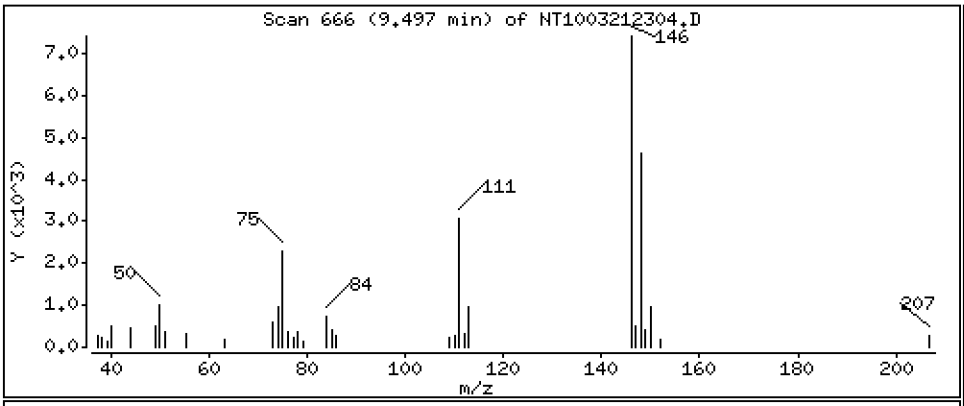
Operator: VTS

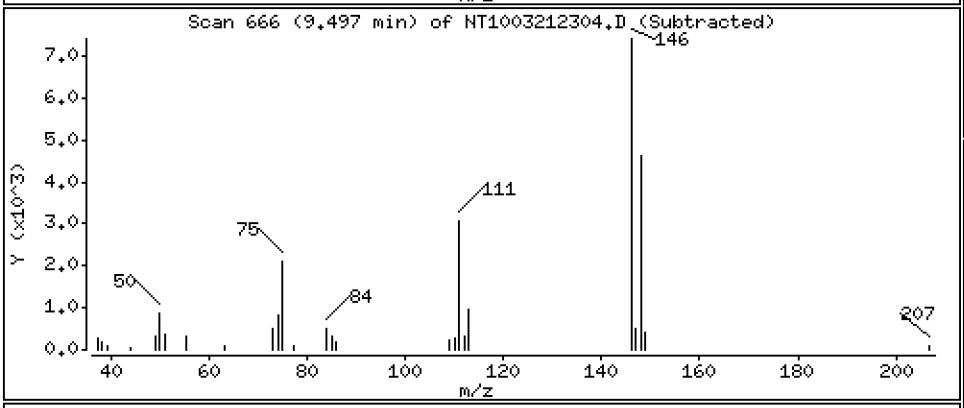
Column phase: ZB-5msi

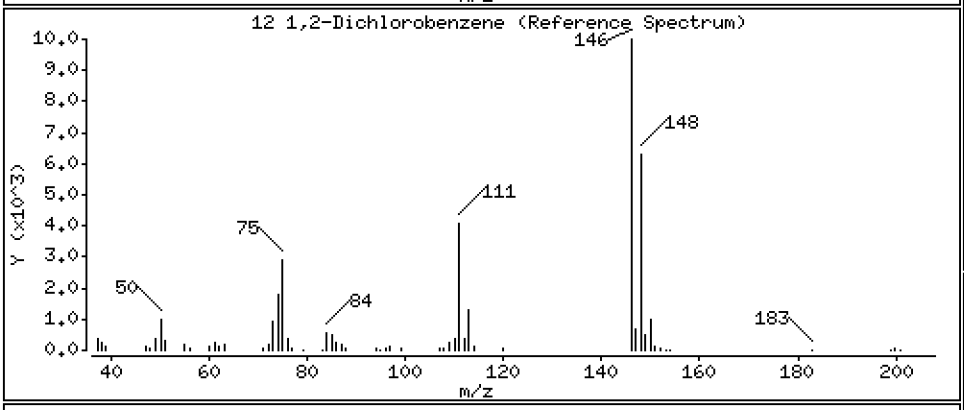
Column diameter: 0.25

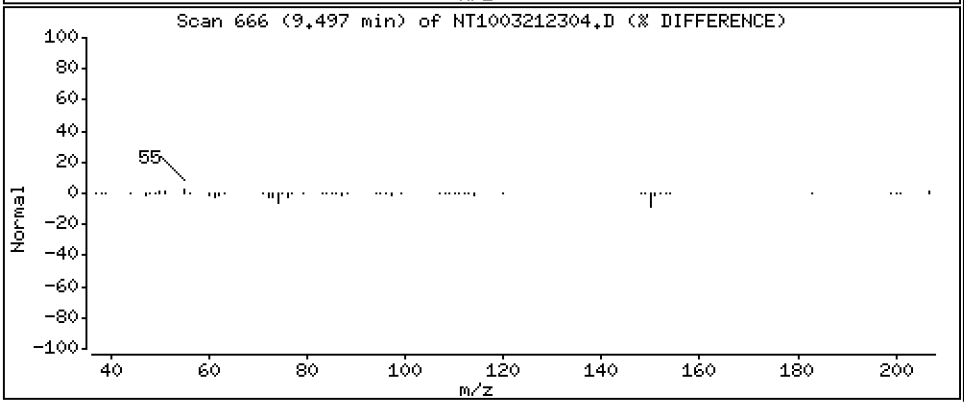
12 1,2-Dichlorobenzene

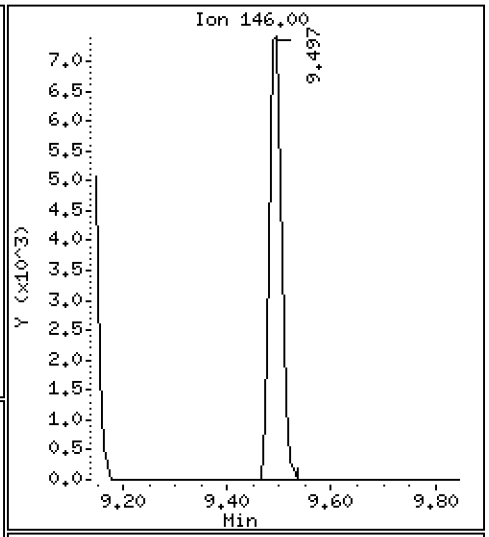
Concentration: 0.2085 ug/mL

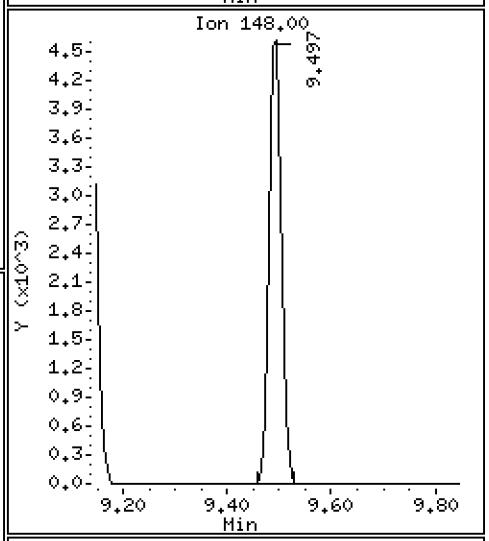


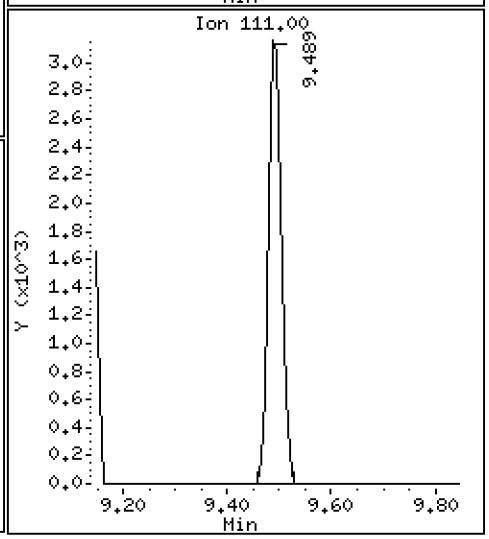












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

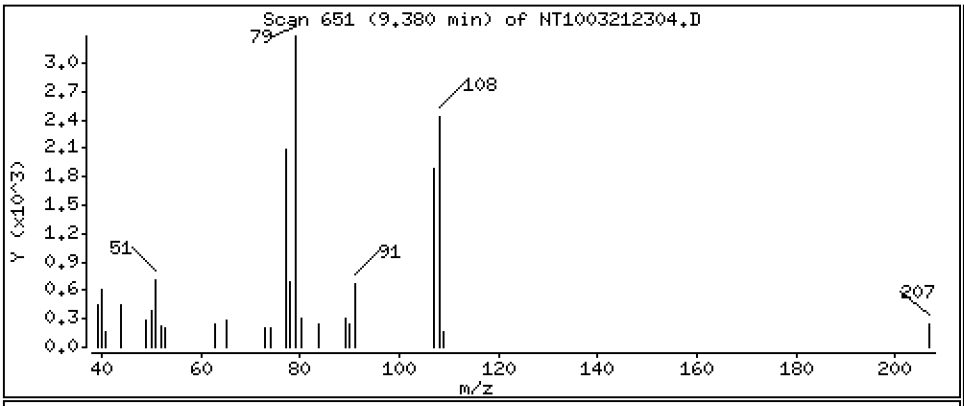
Operator: VTS

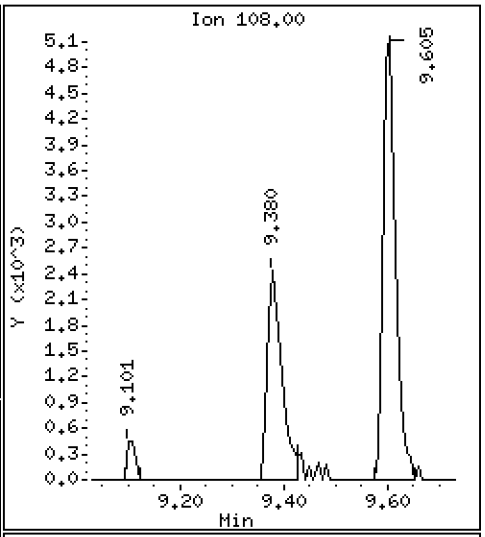
Column phase: ZB-5msi

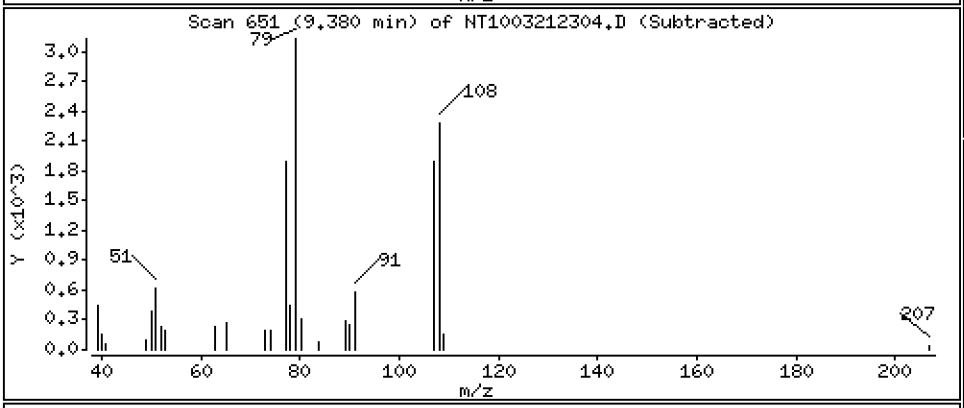
Column diameter: 0.25

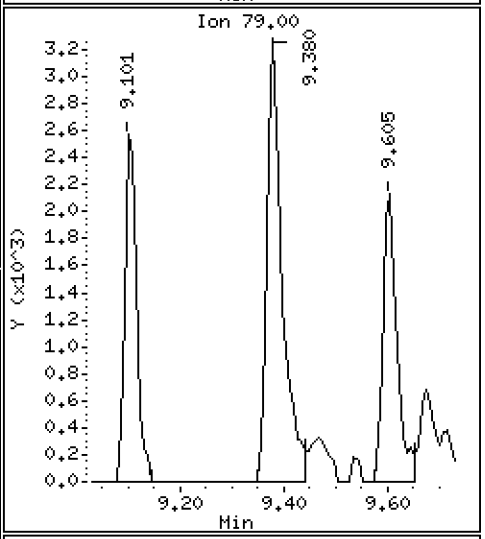
11 Benzyl alcohol

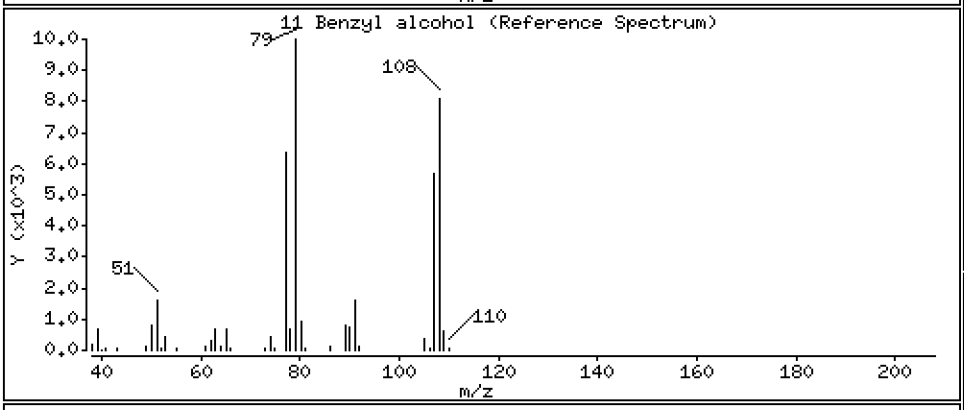
Concentration: 0.1481 ug/mL

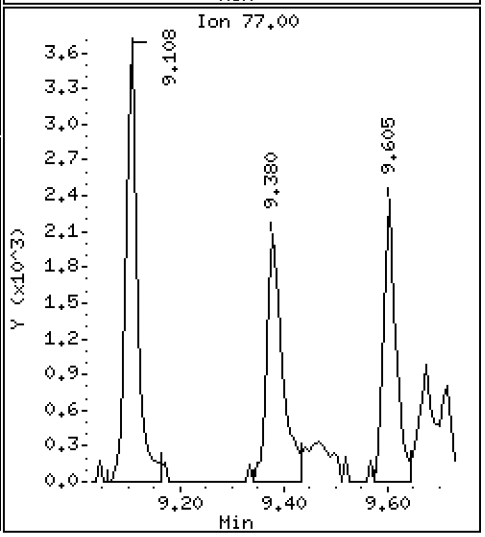


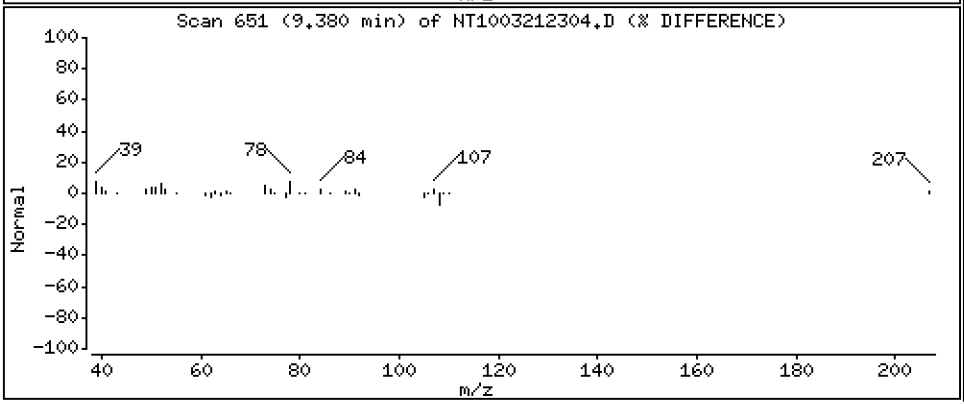












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

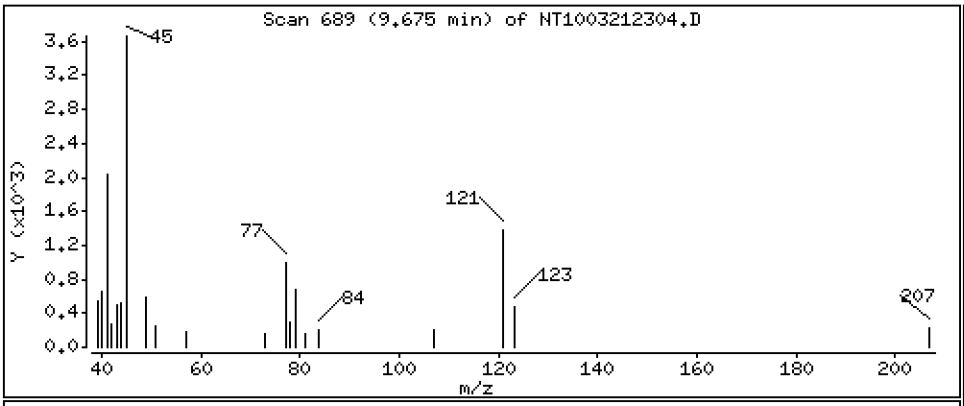
Operator: VTS

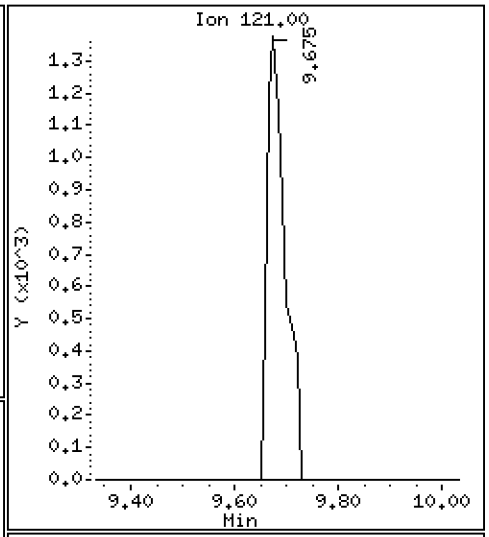
Column phase: ZB-5msi

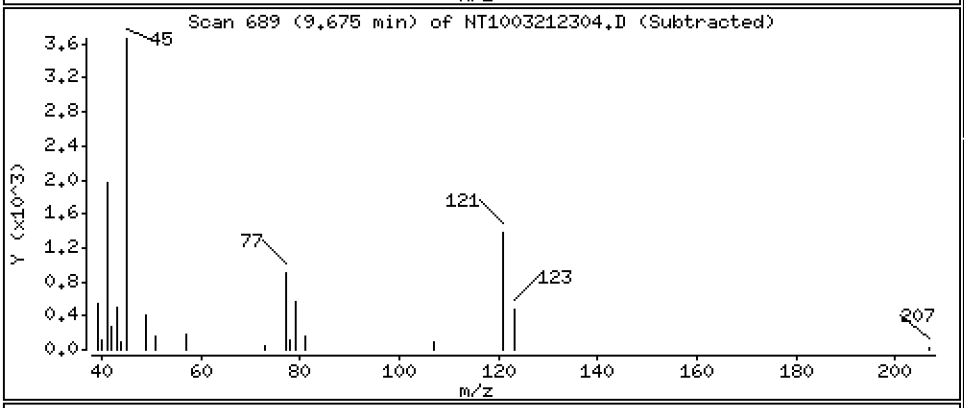
Column diameter: 0.25

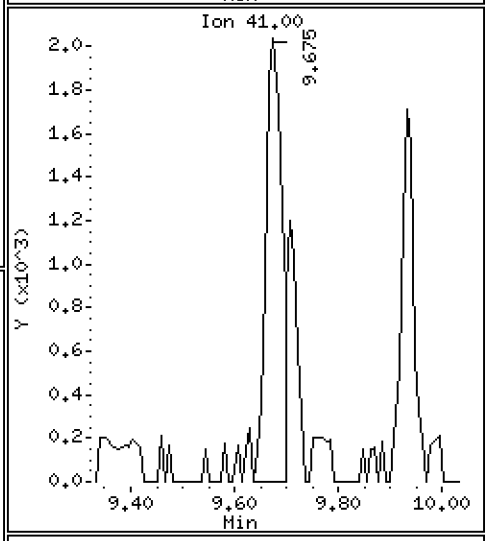
14 2,2'-oxybis(1-Chloropropane)

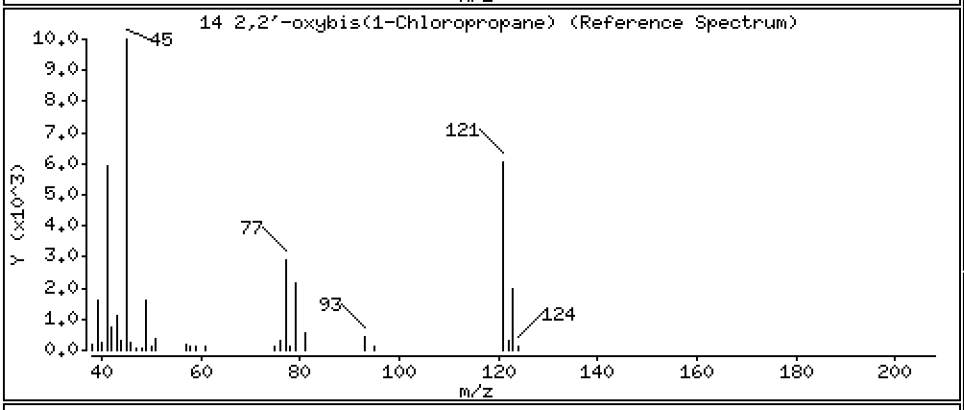
Concentration: 0.1975 ug/mL

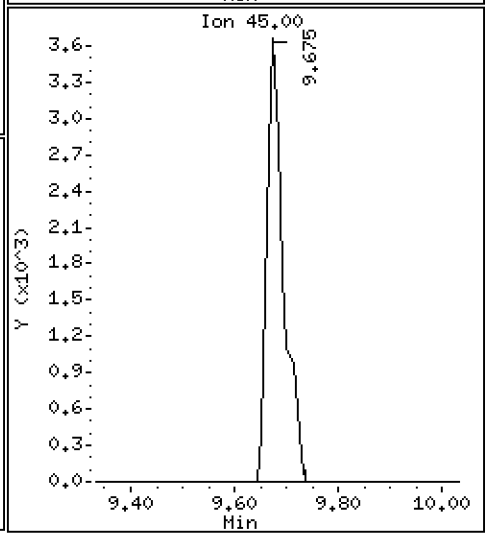


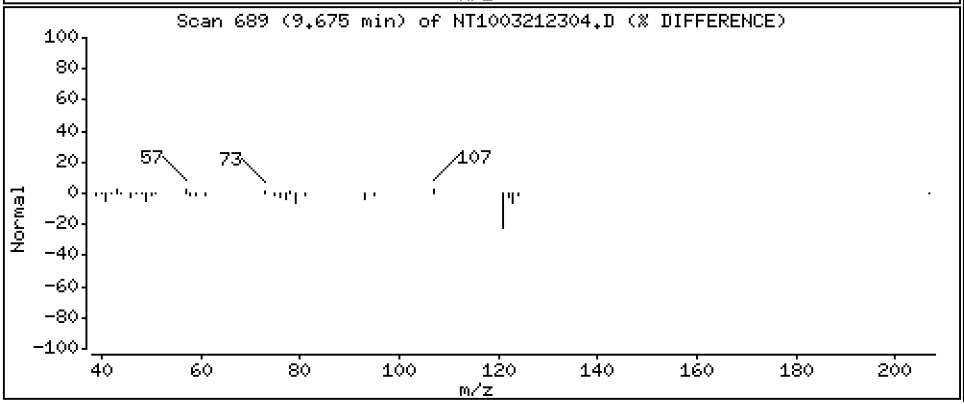












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

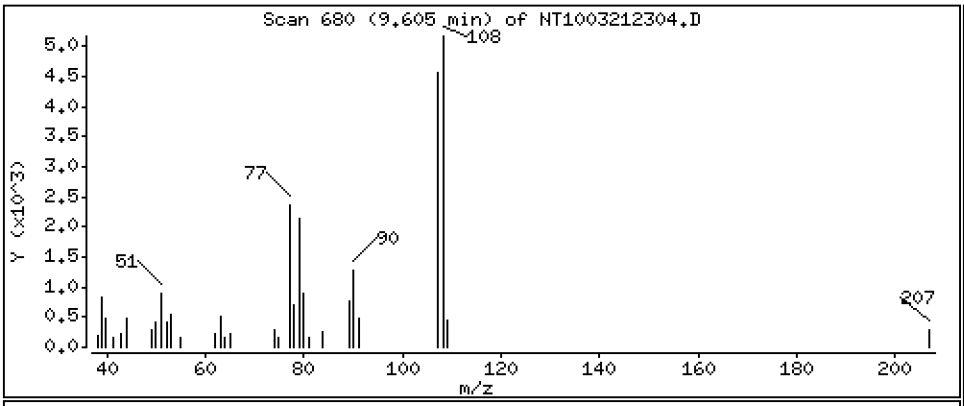
Operator: VTS

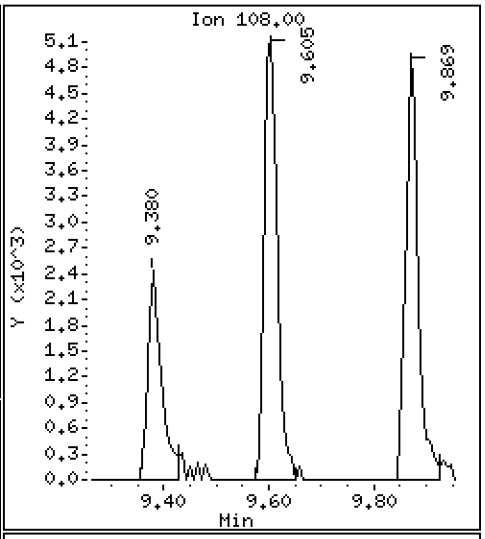
Column phase: ZB-5msi

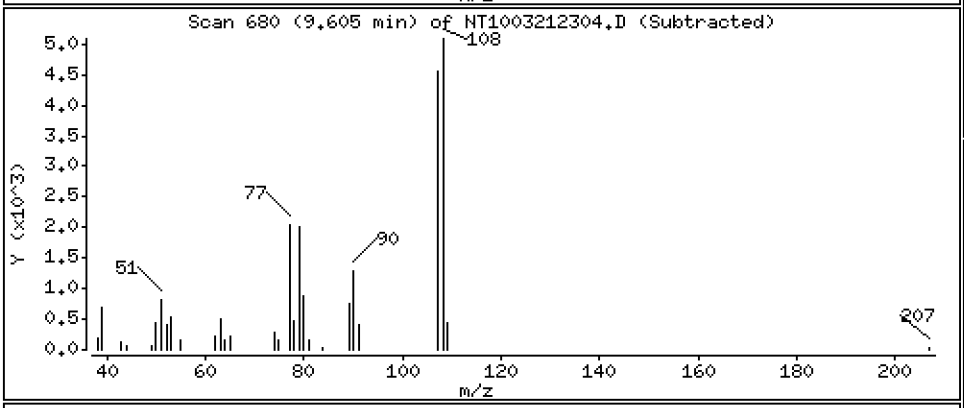
Column diameter: 0.25

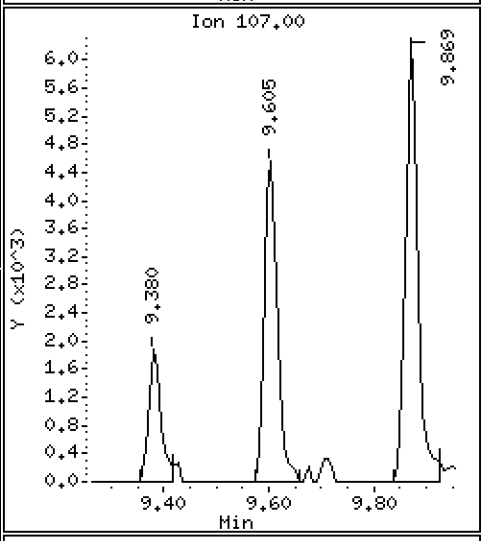
13 2-Methylphenol

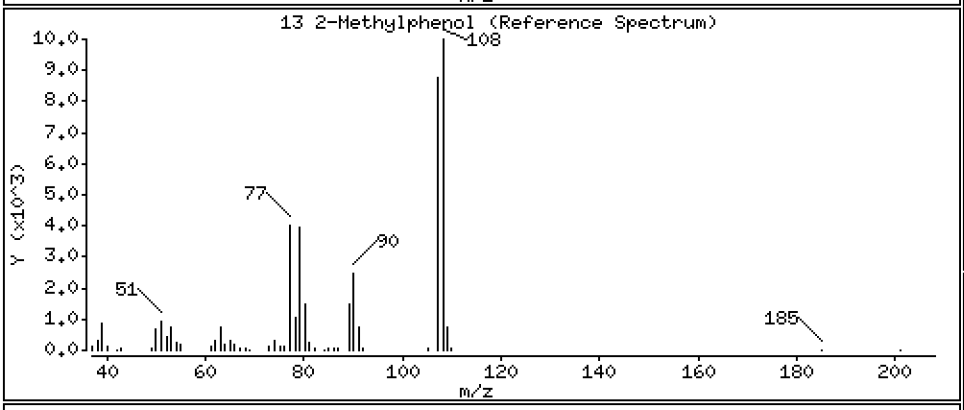
Concentration: 0.1812 ug/mL

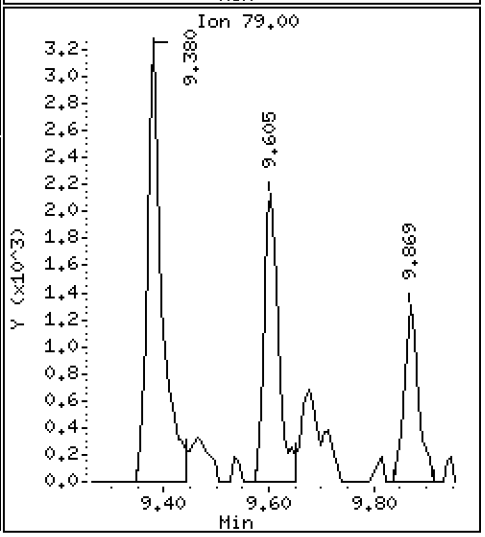


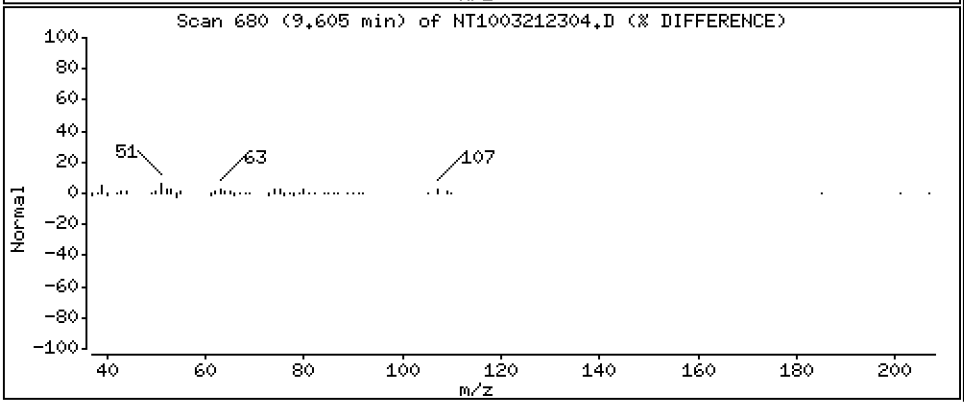












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

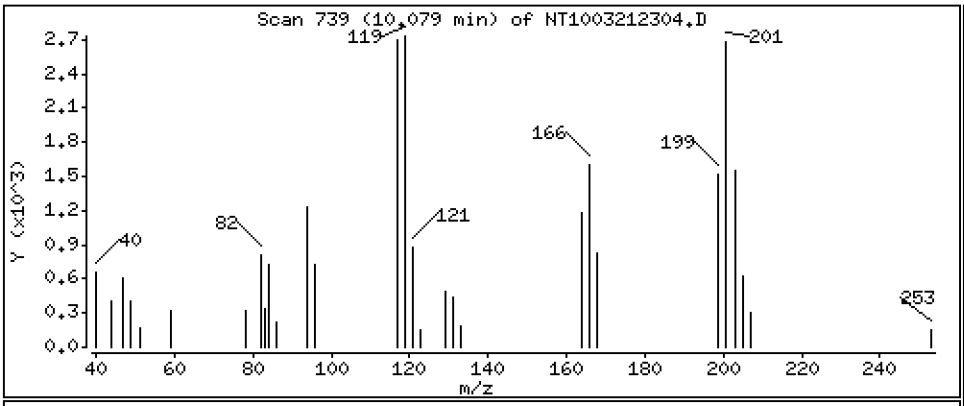
Operator: VTS

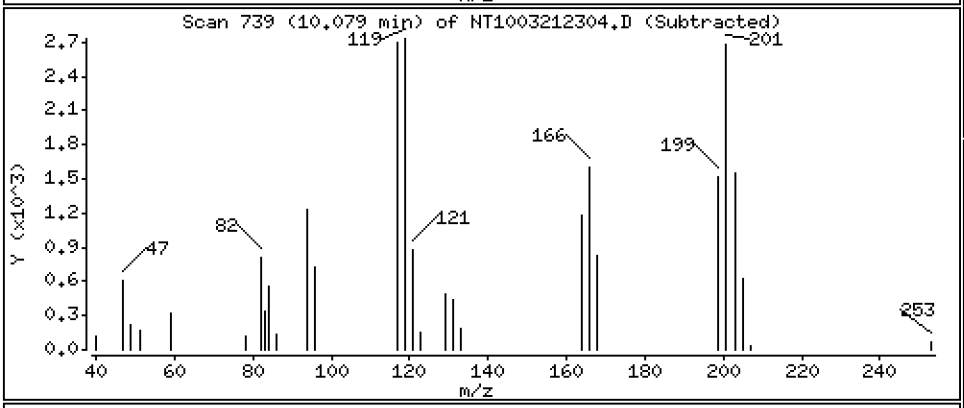
Column phase: ZB-5msi

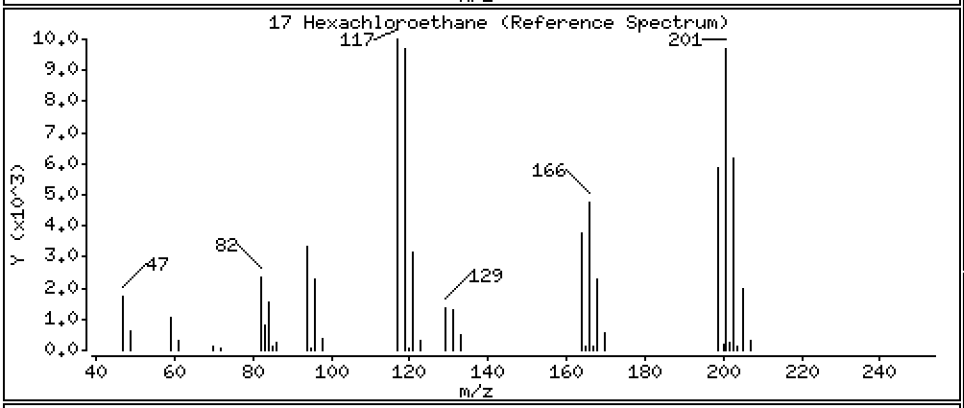
Column diameter: 0.25

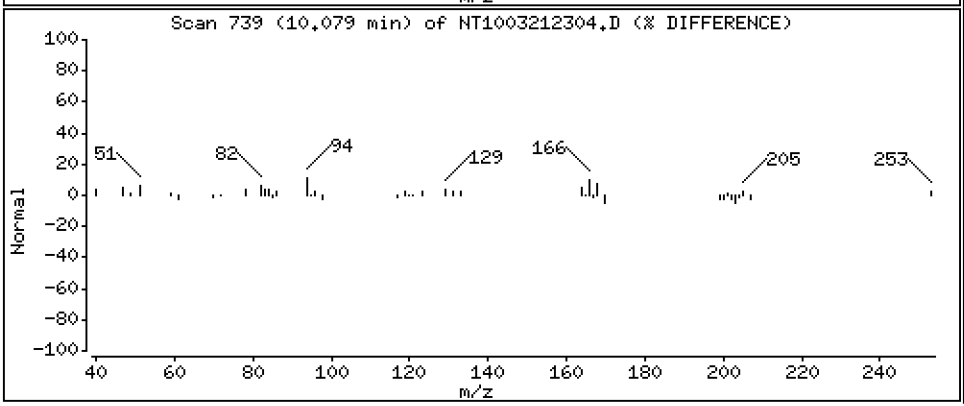
17 Hexachloroethane

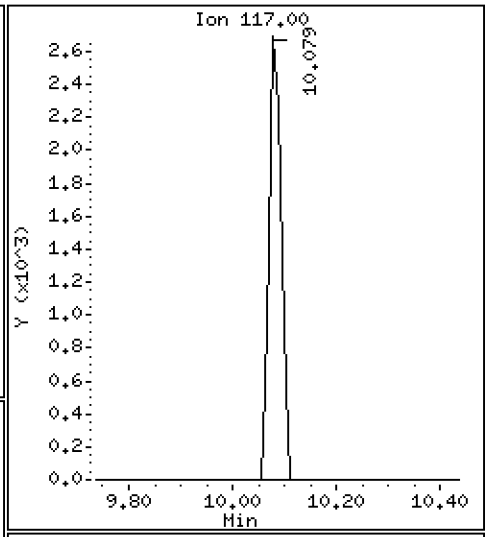
Concentration: 0.1764 ug/mL

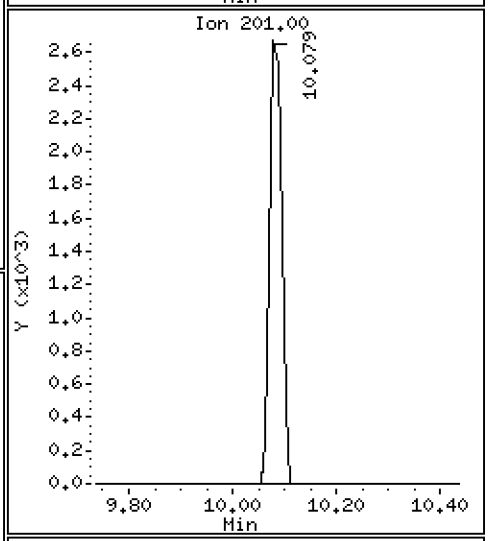


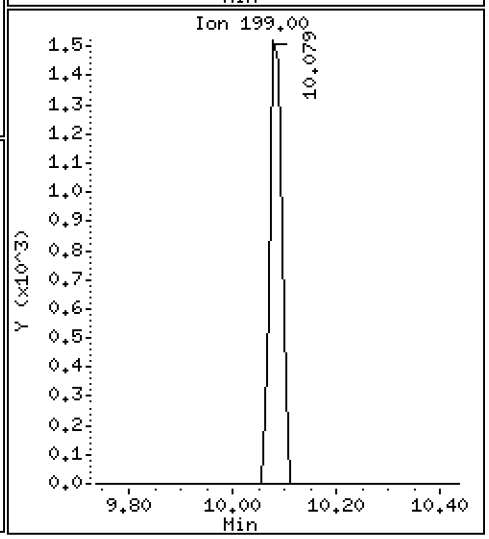












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

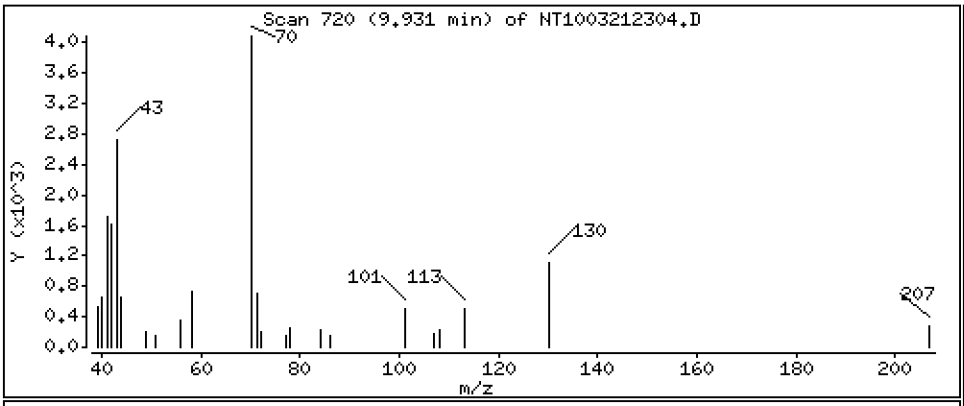
Operator: VTS

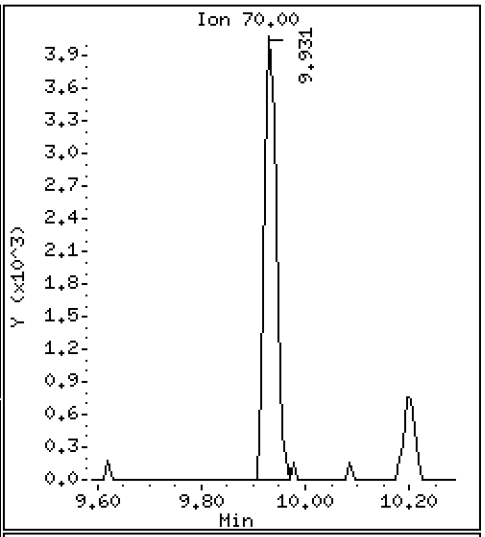
Column phase: ZB-5msi

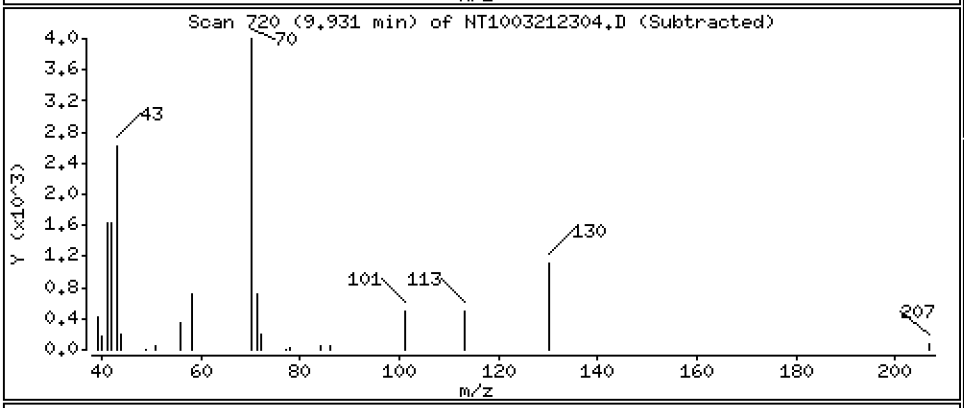
Column diameter: 0.25

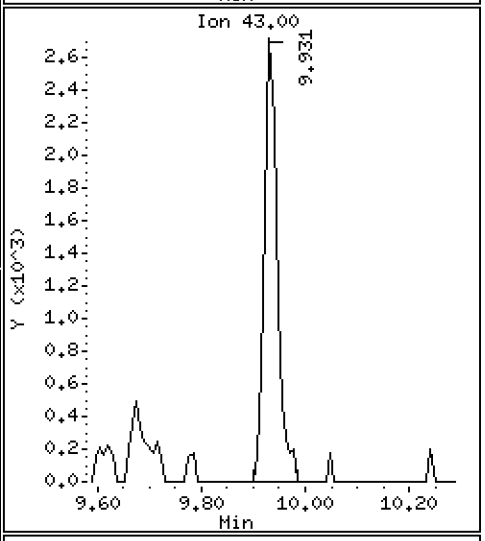
16 N-Nitroso-di-n-propylamine

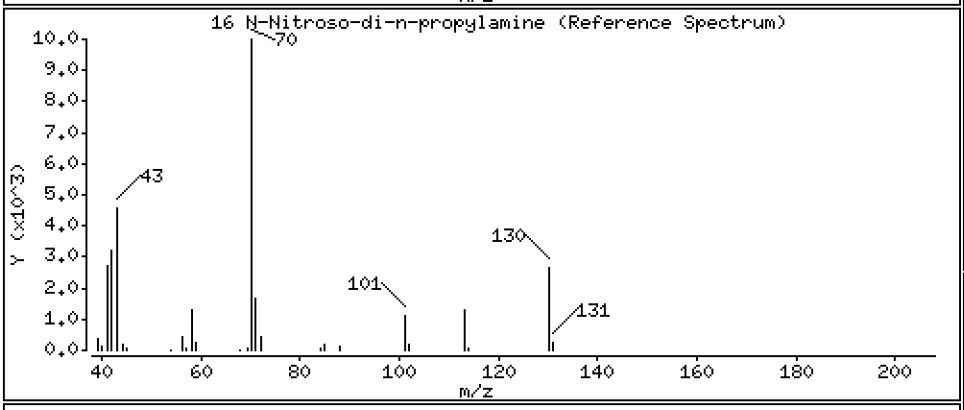
Concentration: 0.1664 ug/mL

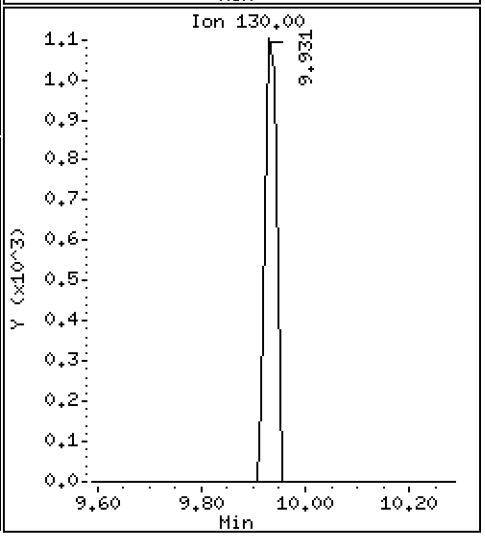


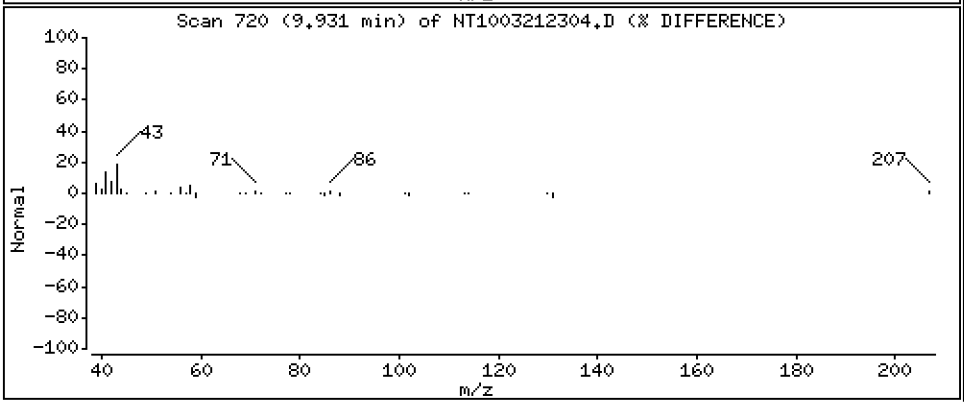












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

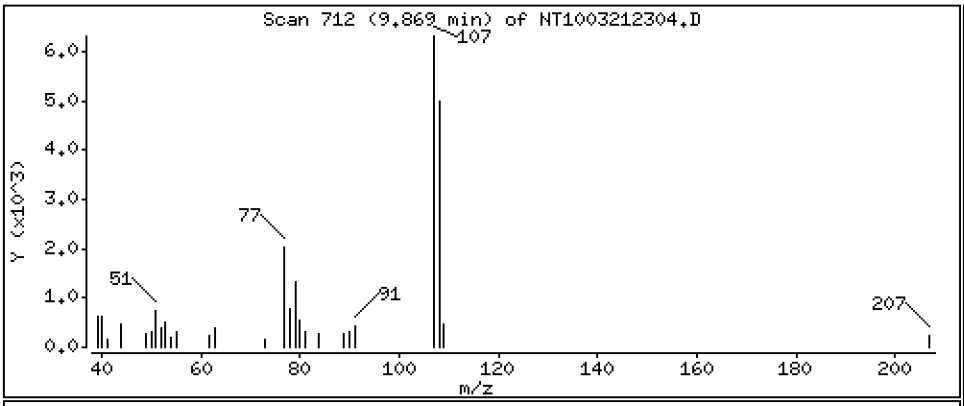
Operator: VTS

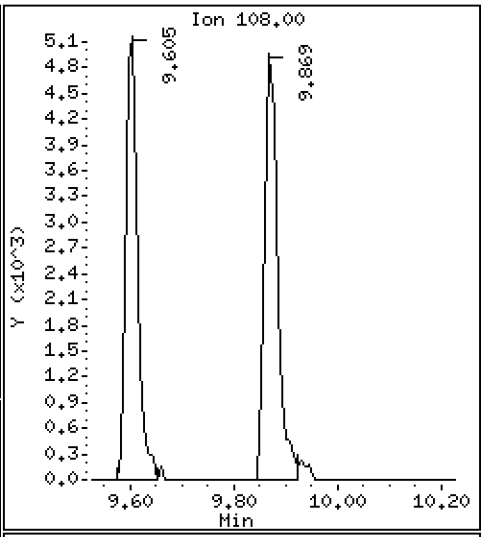
Column phase: ZB-5msi

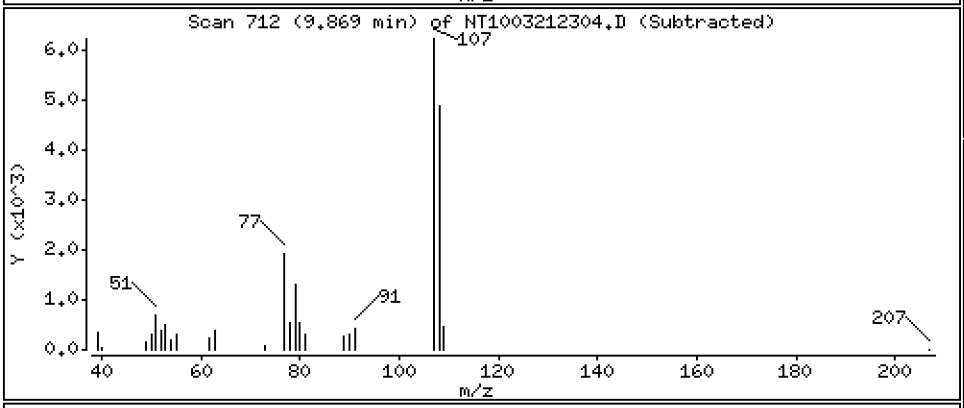
Column diameter: 0.25

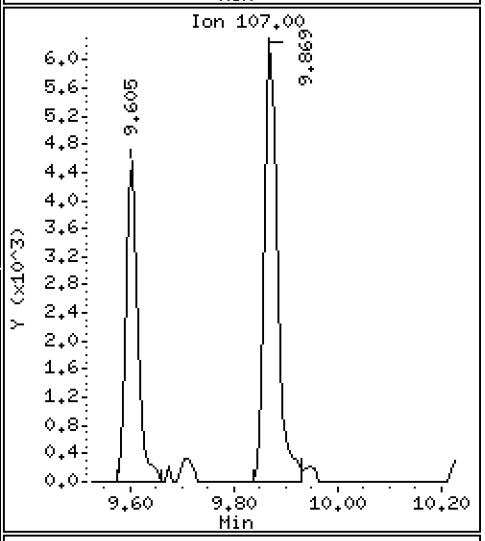
15 4-Methylphenol

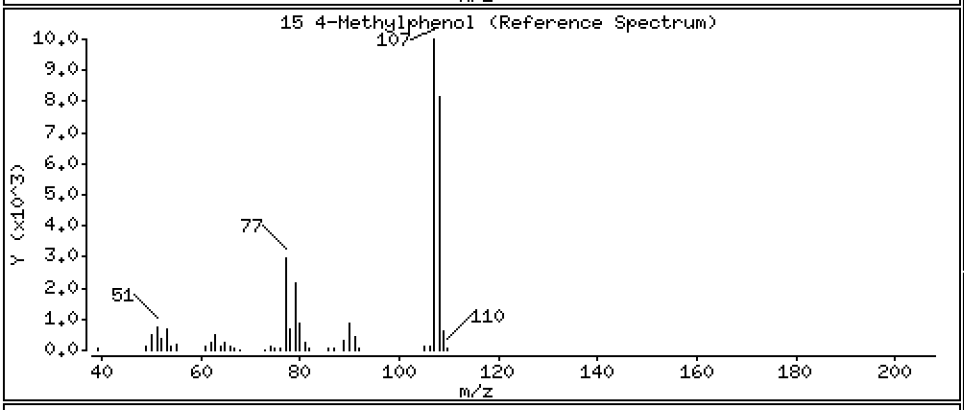
Concentration: 0.1656 ug/mL

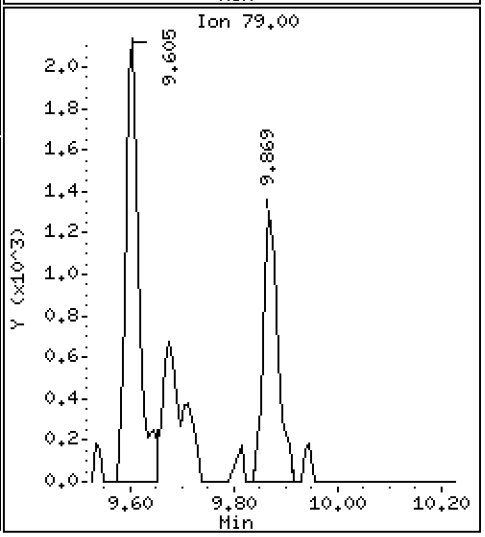


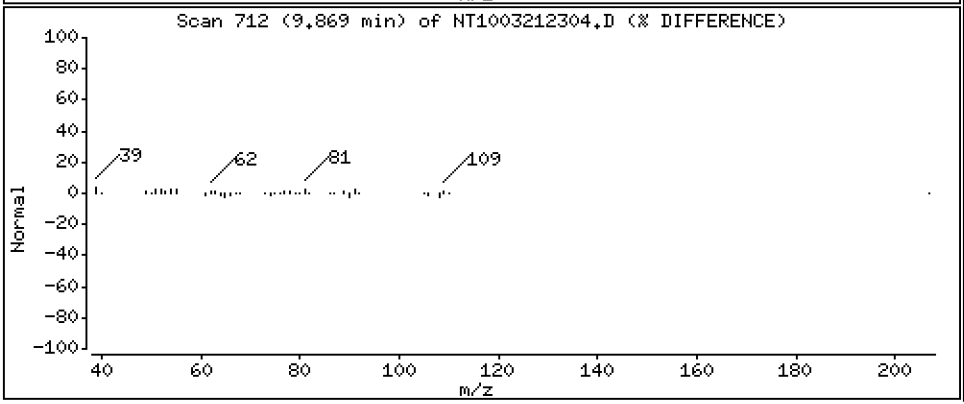












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

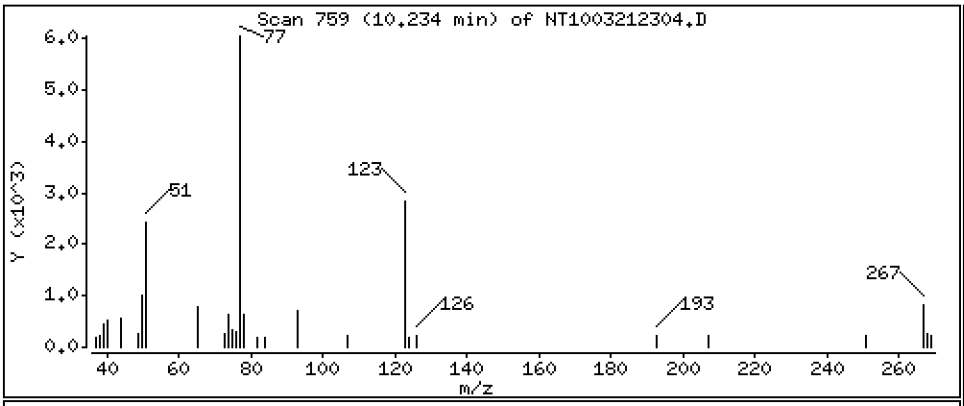
Operator: VTS

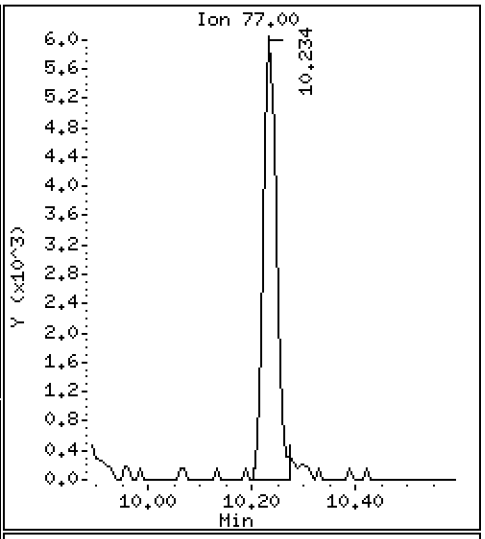
Column phase: ZB-5msi

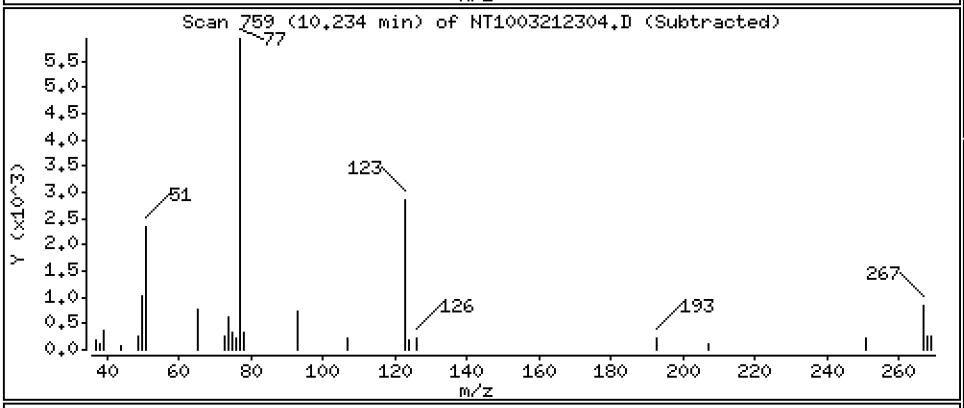
Column diameter: 0.25

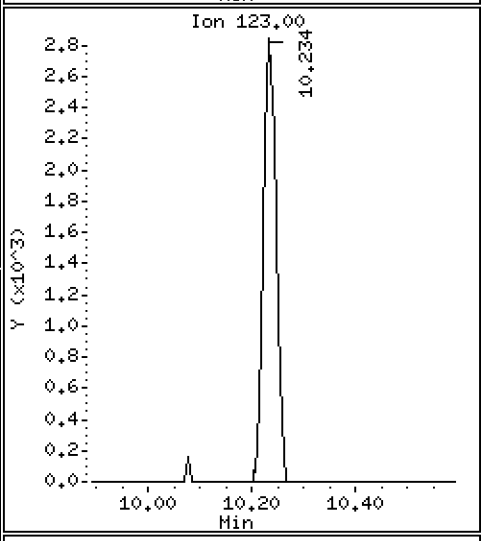
19 Nitrobenzene

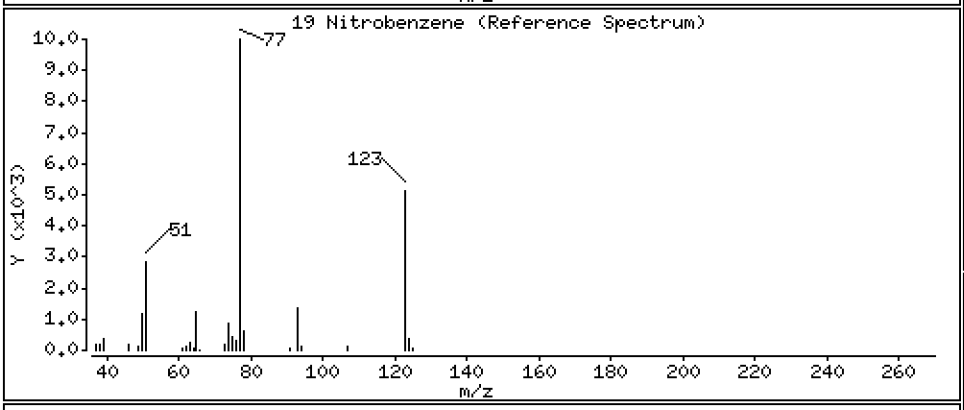
Concentration: 0.1817 ug/mL

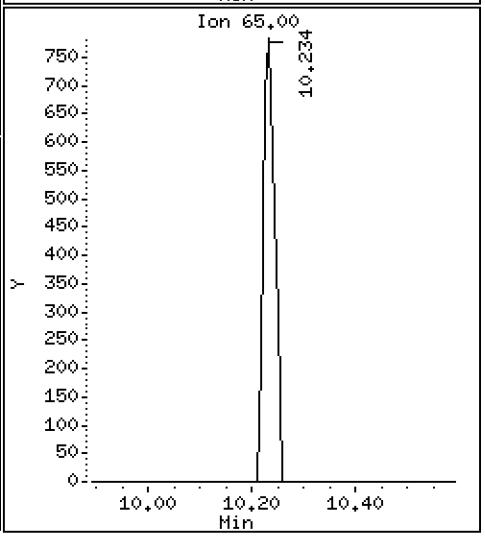


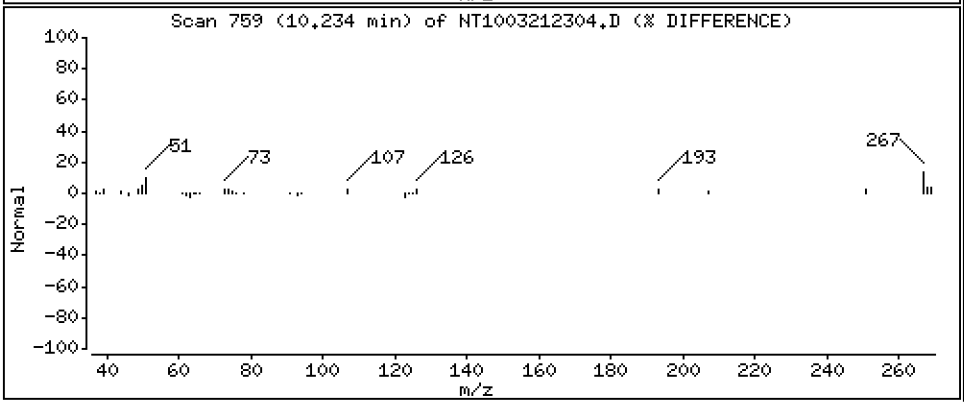












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

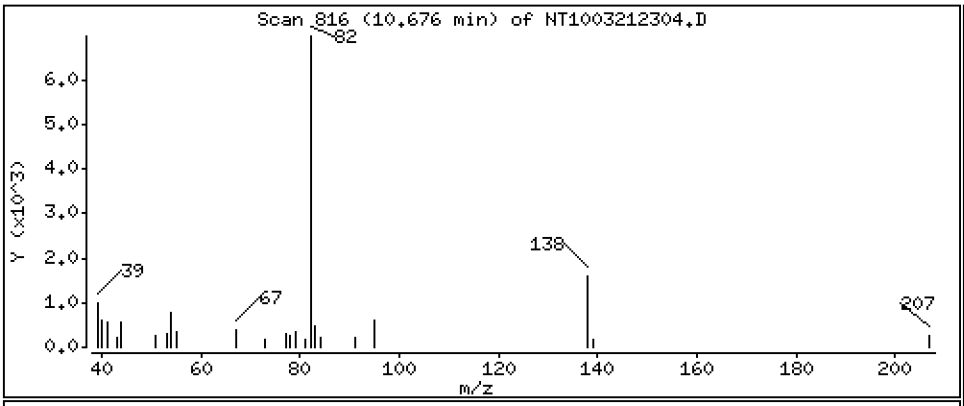
Operator: VTS

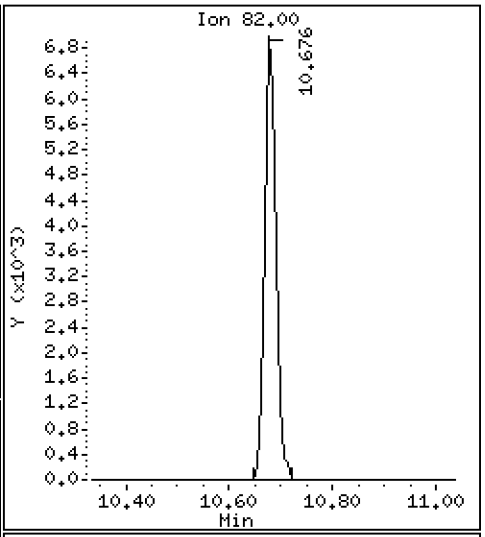
Column phase: ZB-5msi

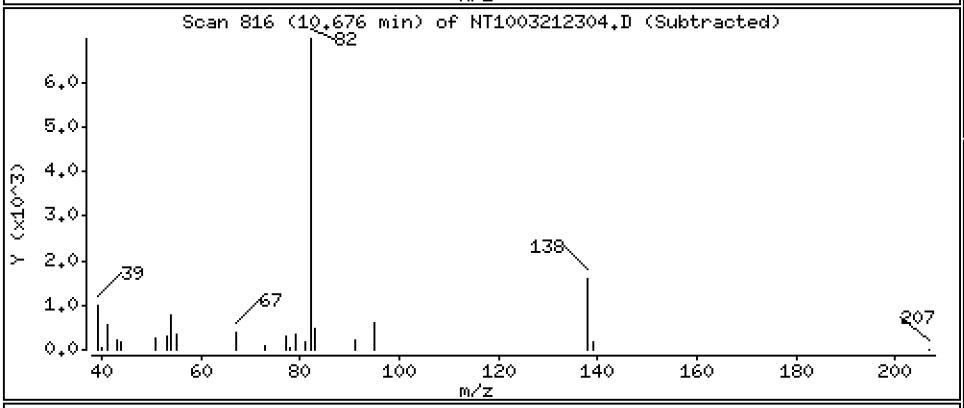
Column diameter: 0.25

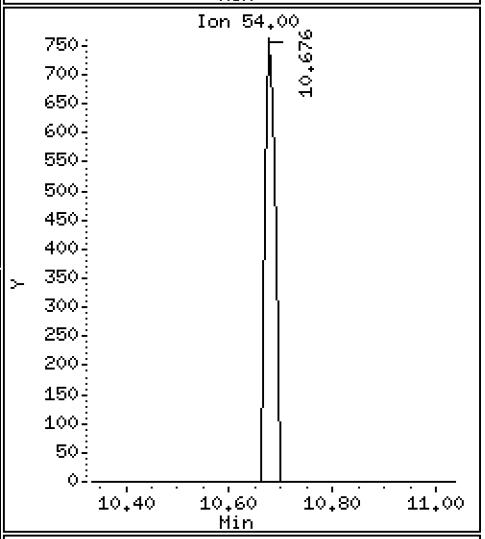
20 Isophorone

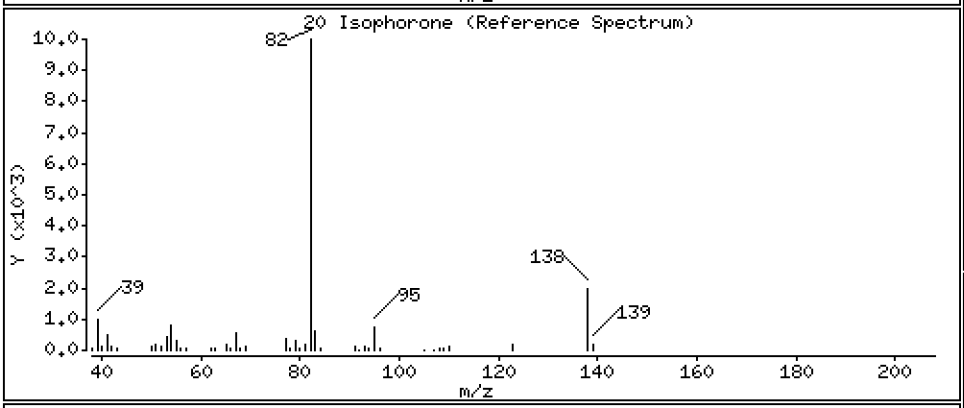
Concentration: 0.1563 ug/mL

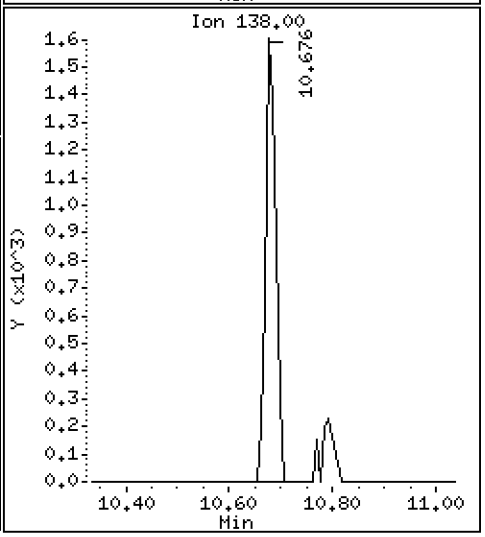


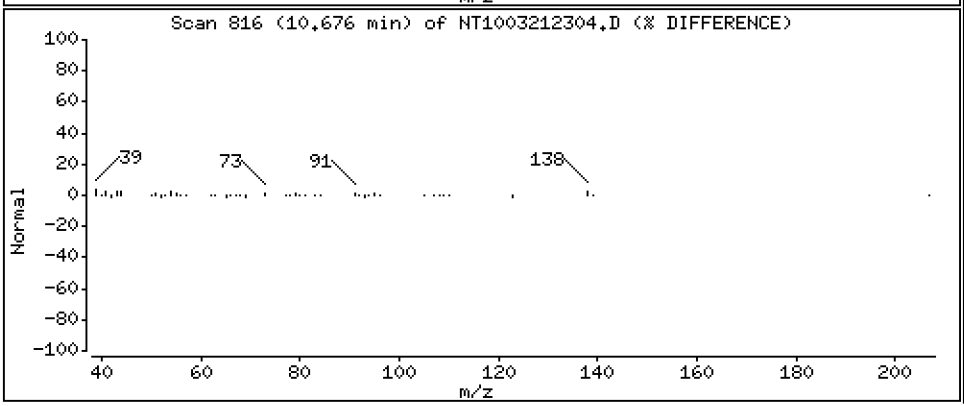












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

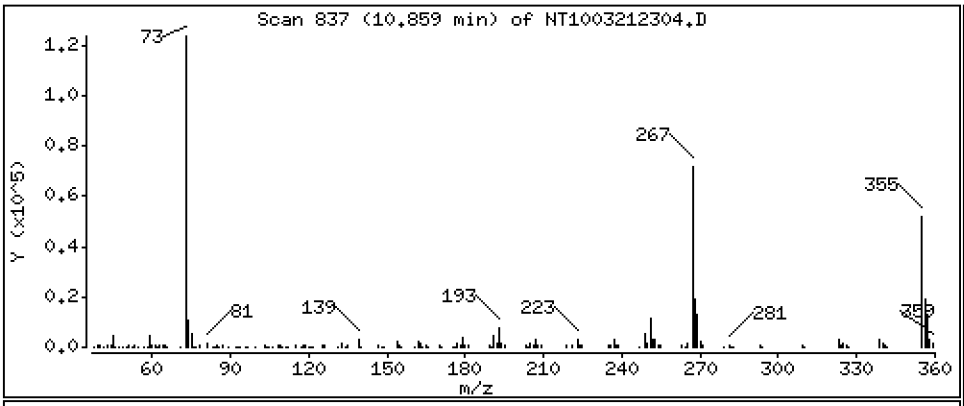
Operator: VTS

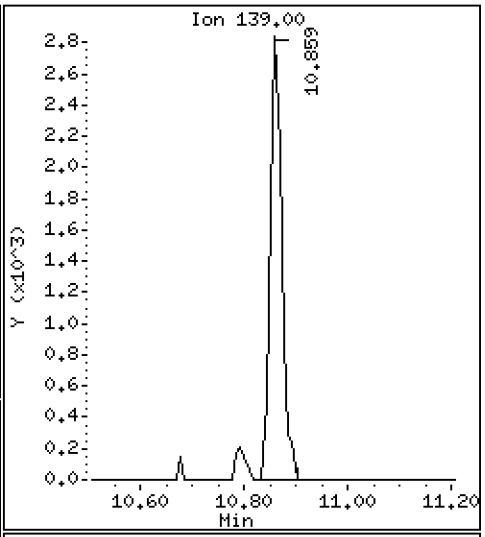
Column phase: ZB-5msi

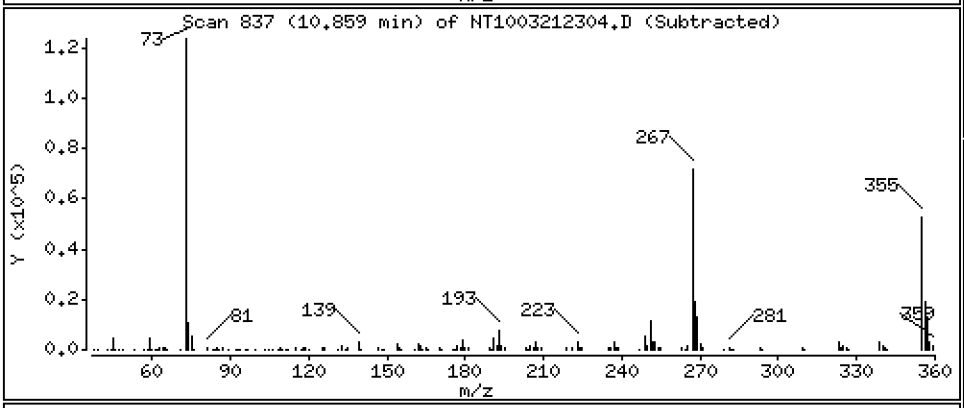
Column diameter: 0.25

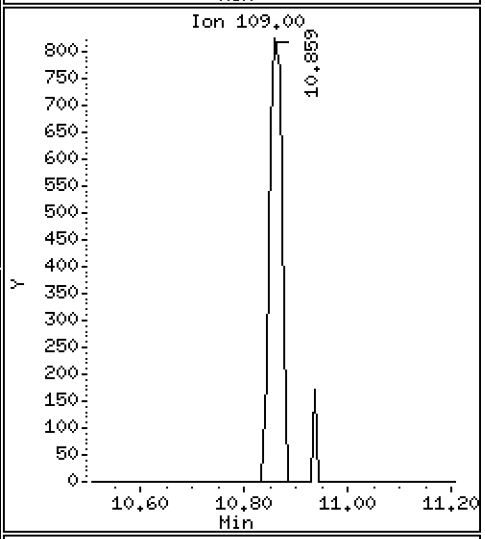
21 2-Nitrophenol

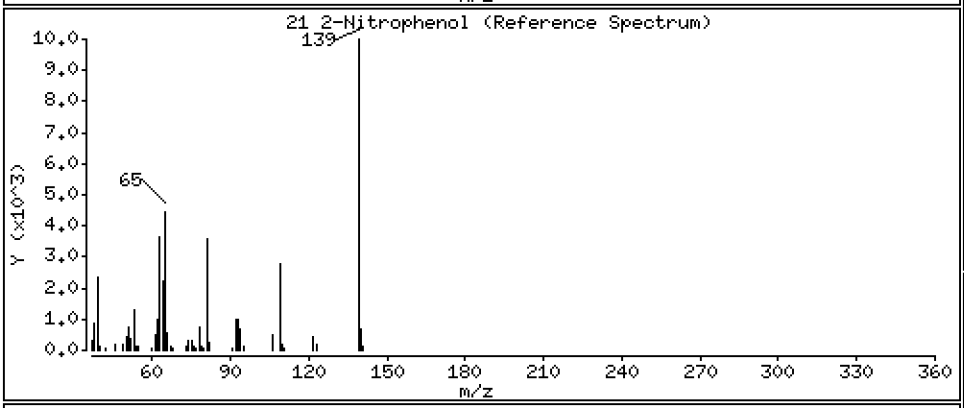
Concentration: 0.1626 ug/mL

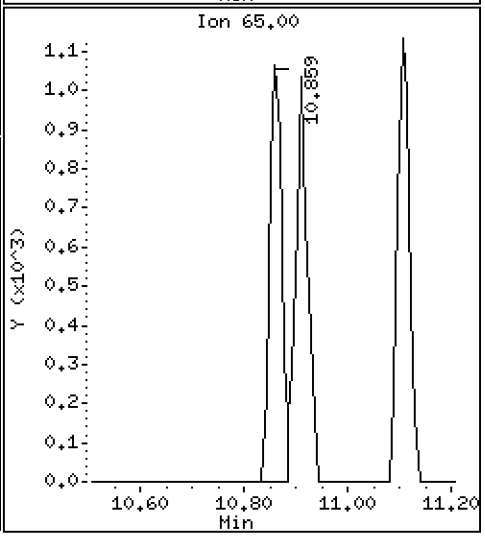


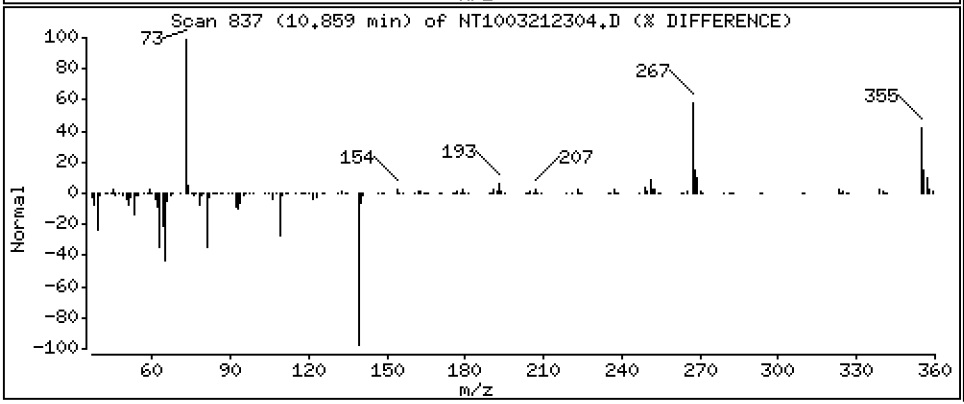












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

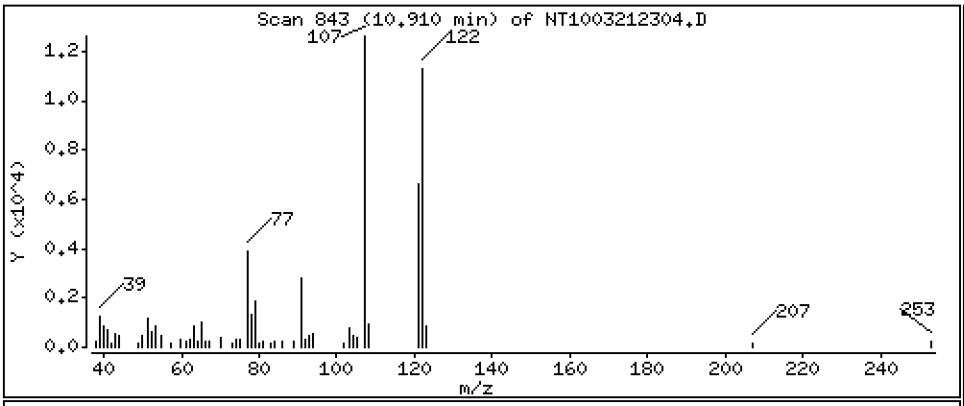
Operator: VTS

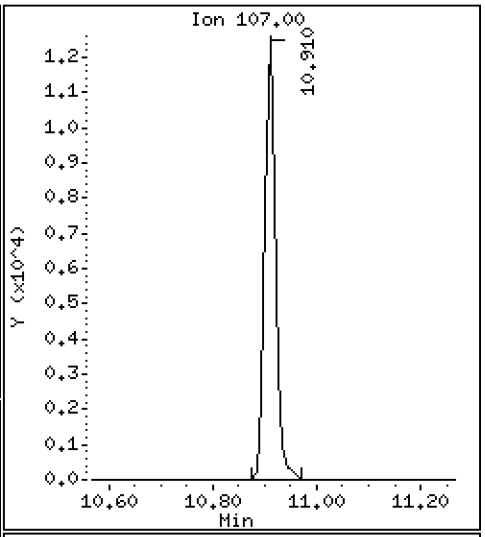
Column phase: ZB-5msi

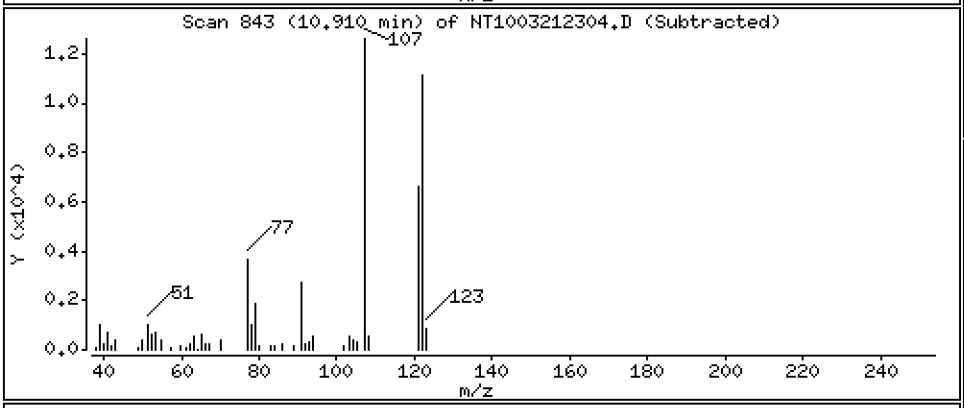
Column diameter: 0.25

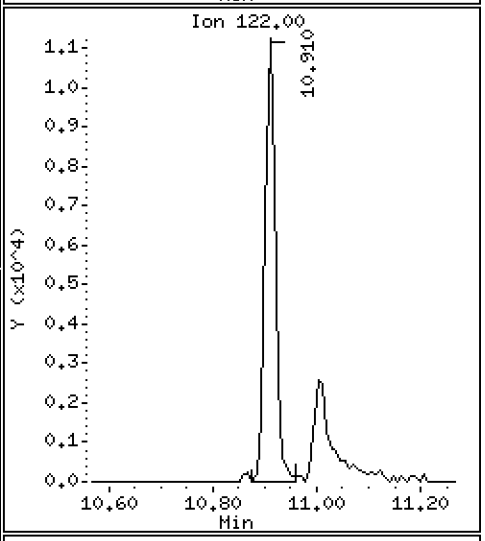
22 2,4-Dimethylphenol

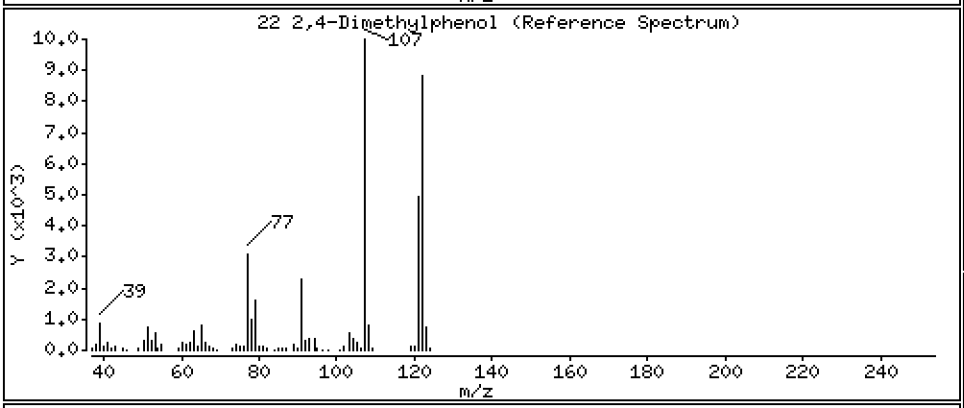
Concentration: 0.3582 ug/mL

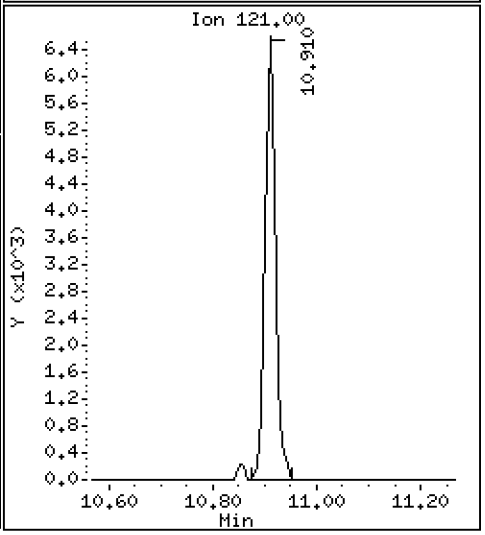


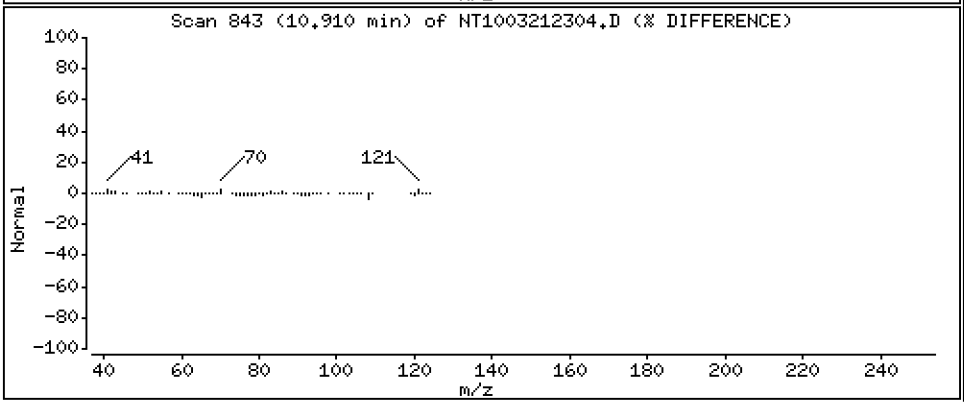












Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

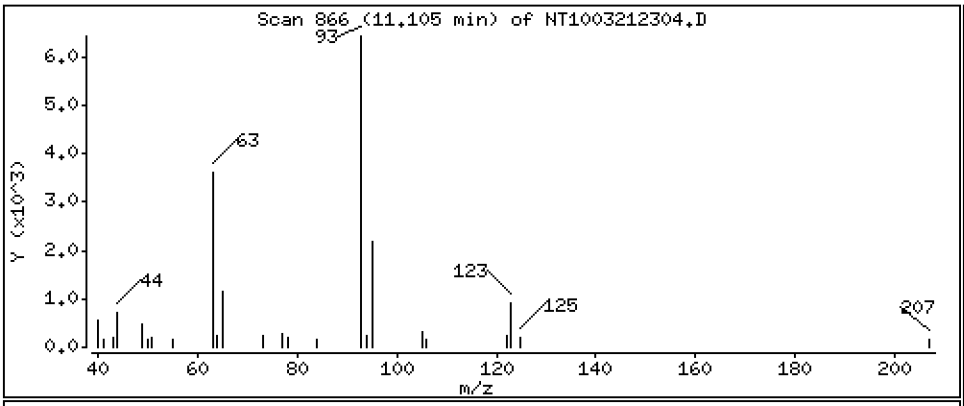
Operator: VTS

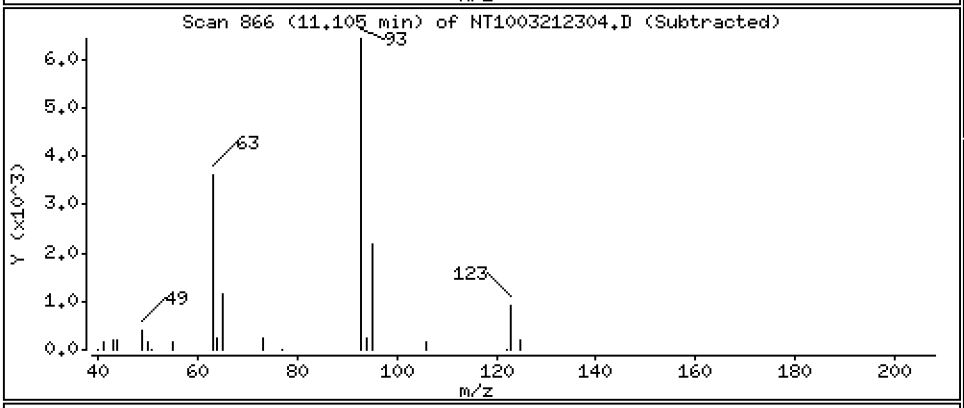
Column phase: ZB-5msi

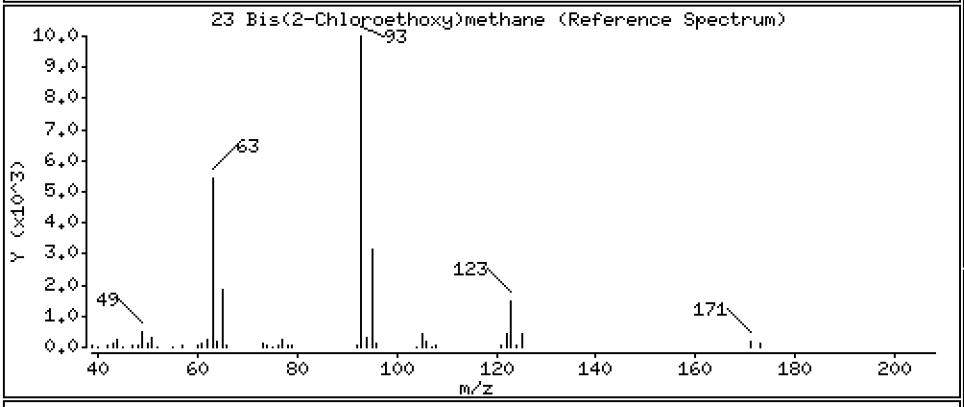
Column diameter: 0.25

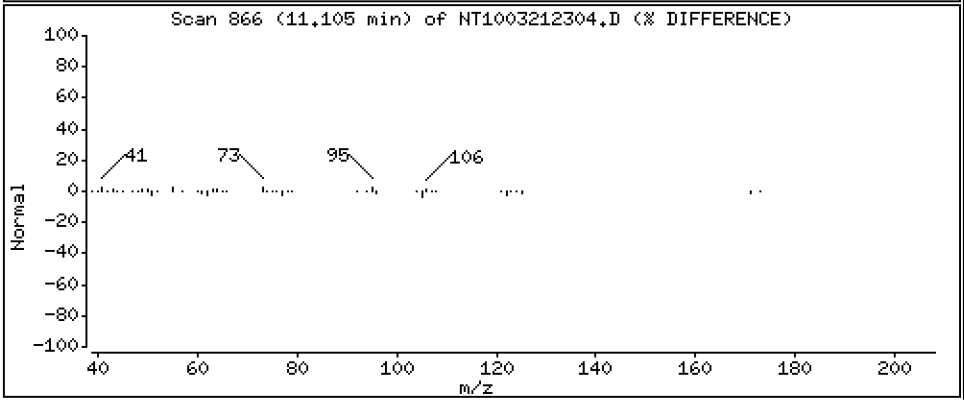
23 Bis(2-Chloroethoxy)methane

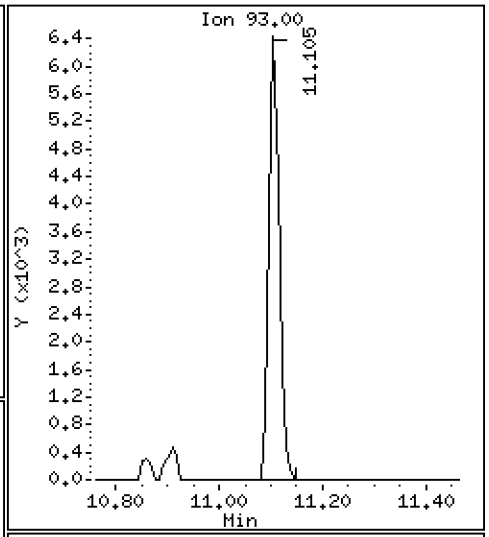
Concentration: 0.1906 ug/mL

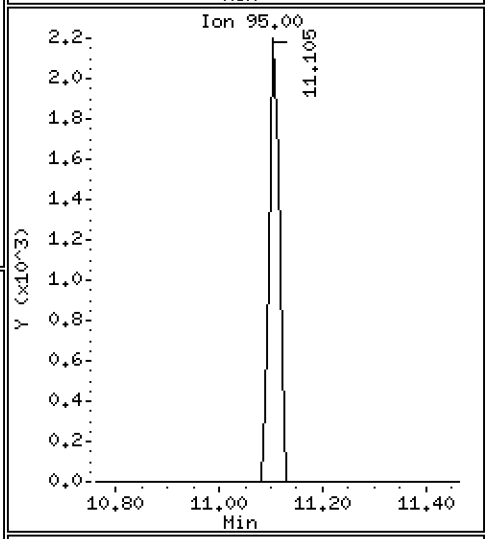


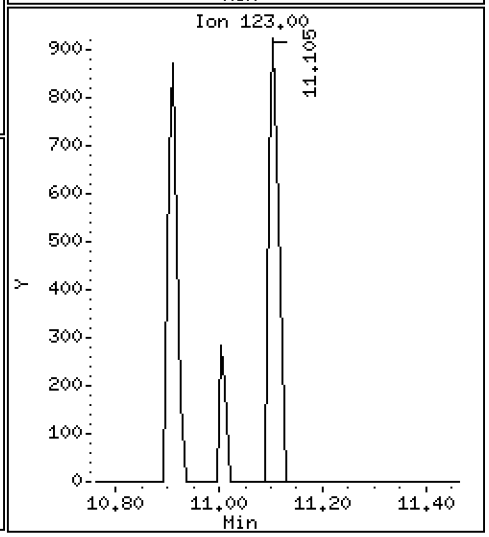












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

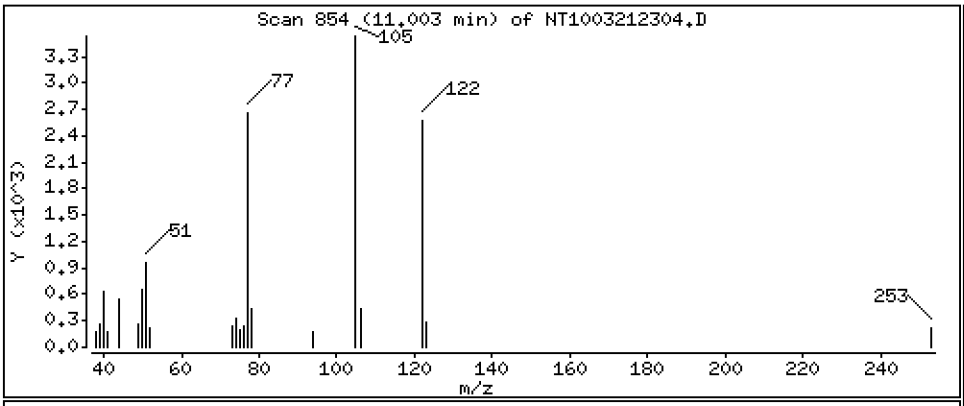
Operator: VTS

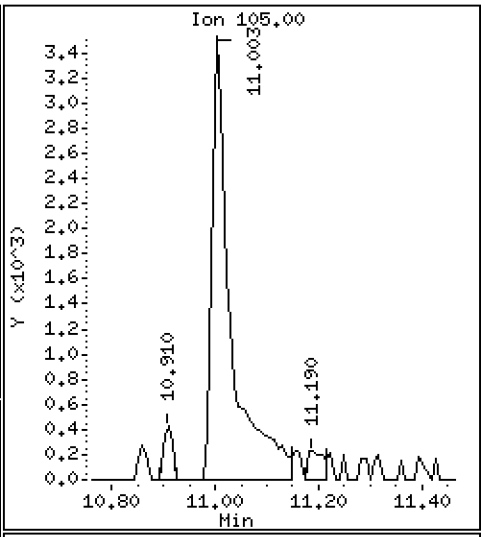
Column phase: ZB-5msi

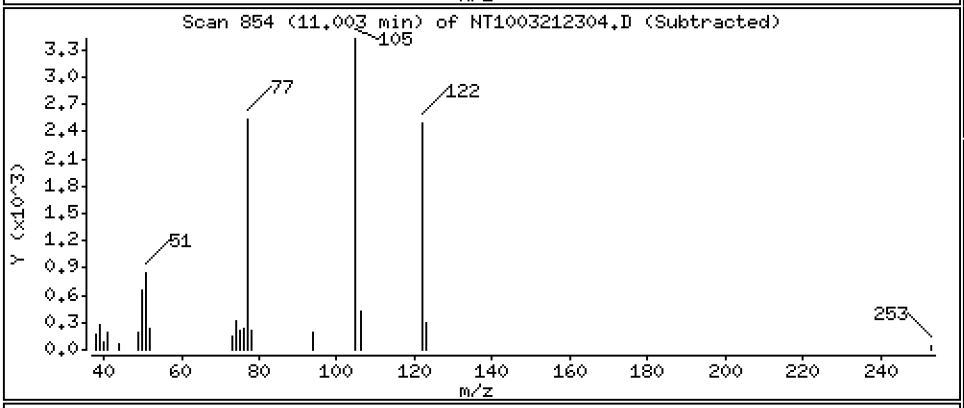
Column diameter: 0.25

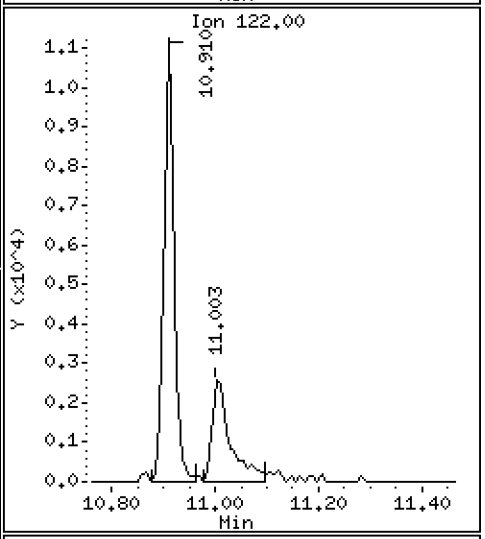
24 Benzoic acid

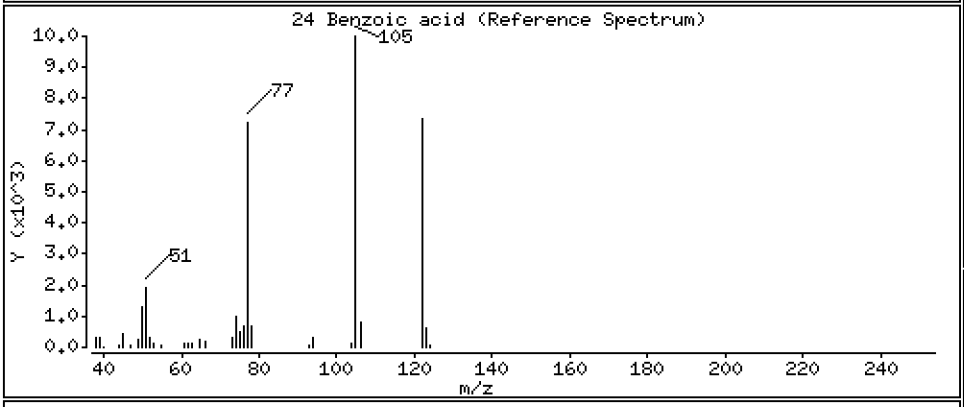
Concentration: 0.3172 ug/mL

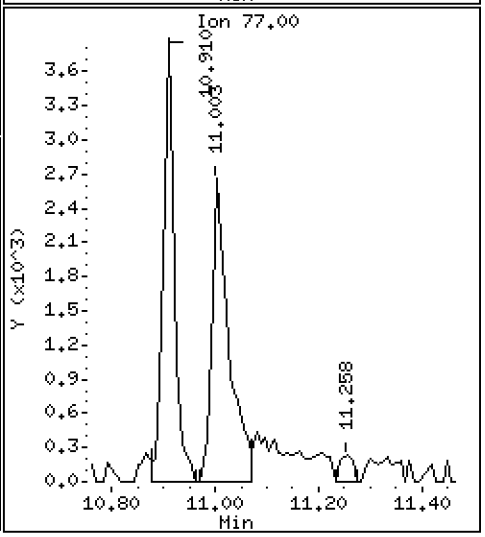


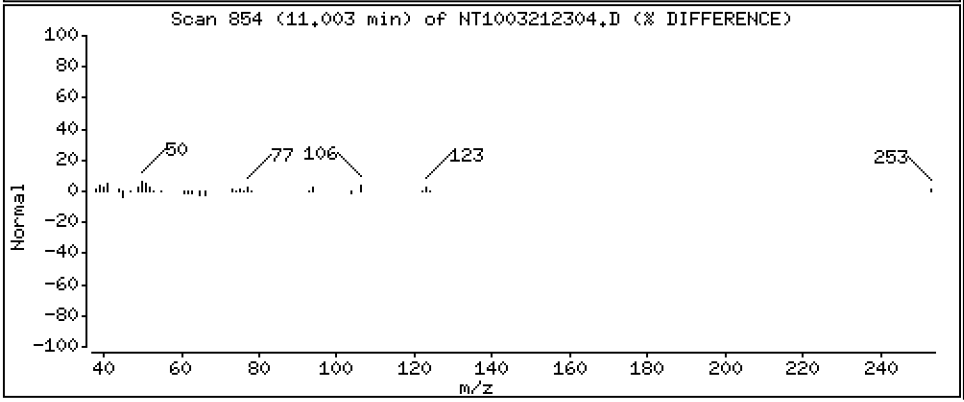












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

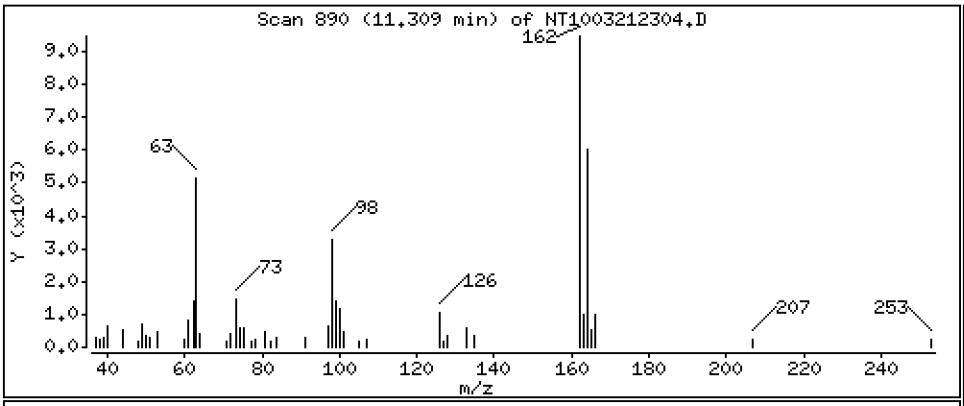
Operator: VTS

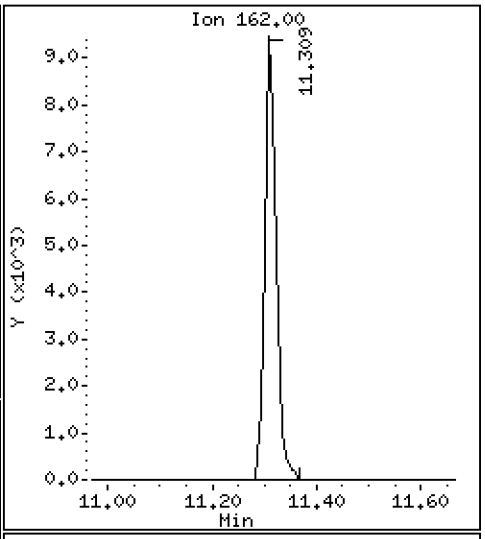
Column phase: ZB-5msi

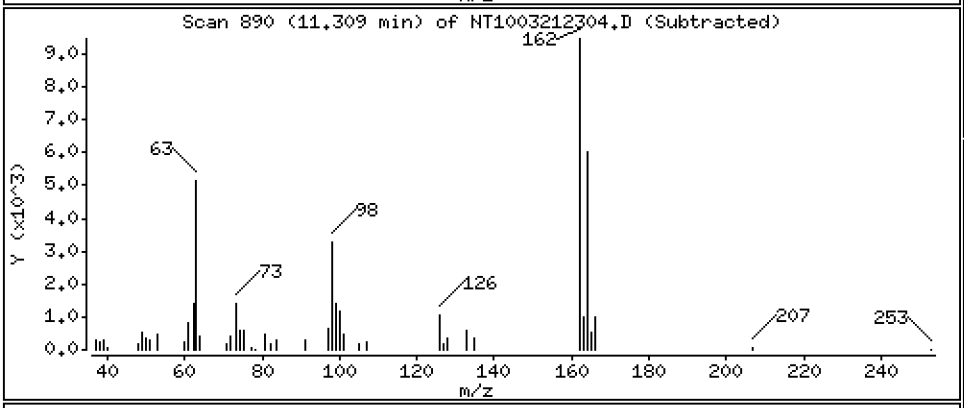
Column diameter: 0.25

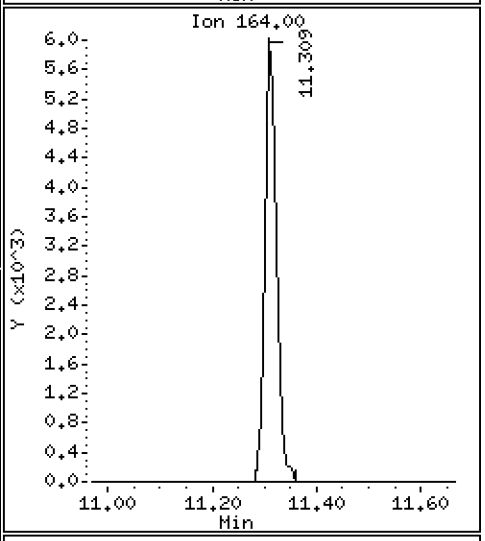
25 2,4-Dichlorophenol

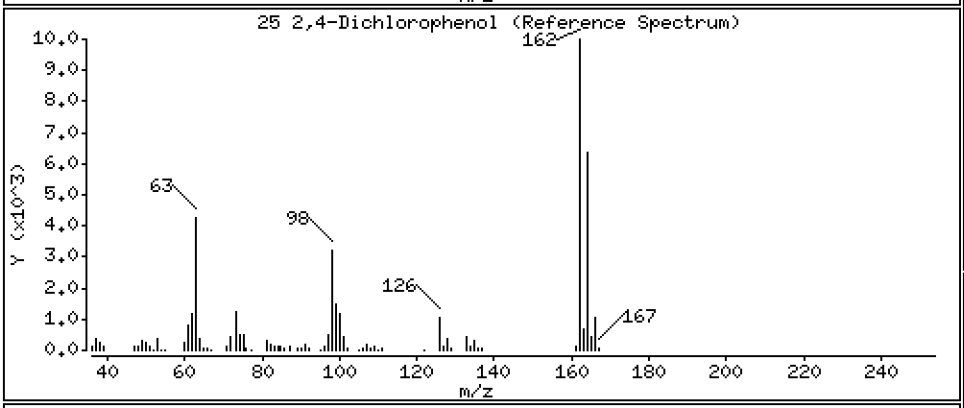
Concentration: 0.3625 ug/mL

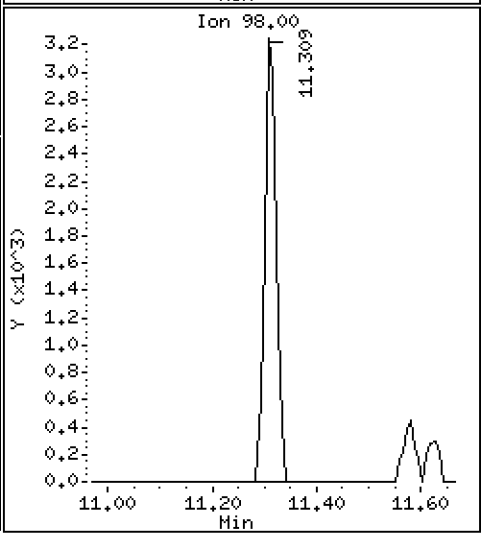


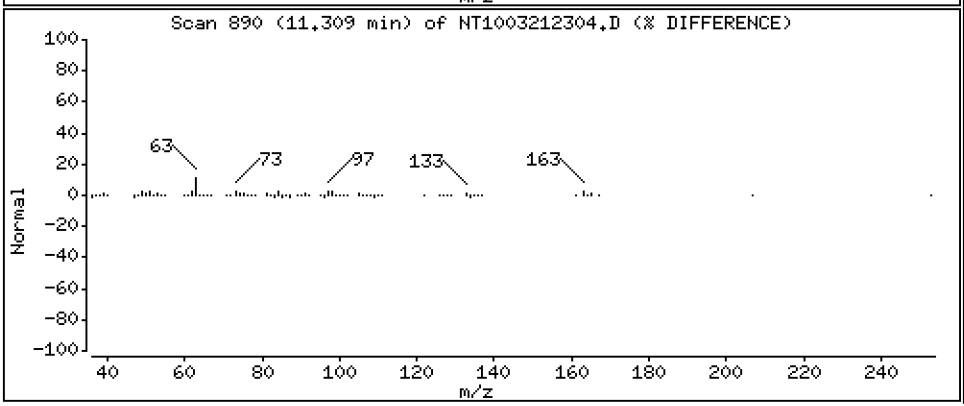












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

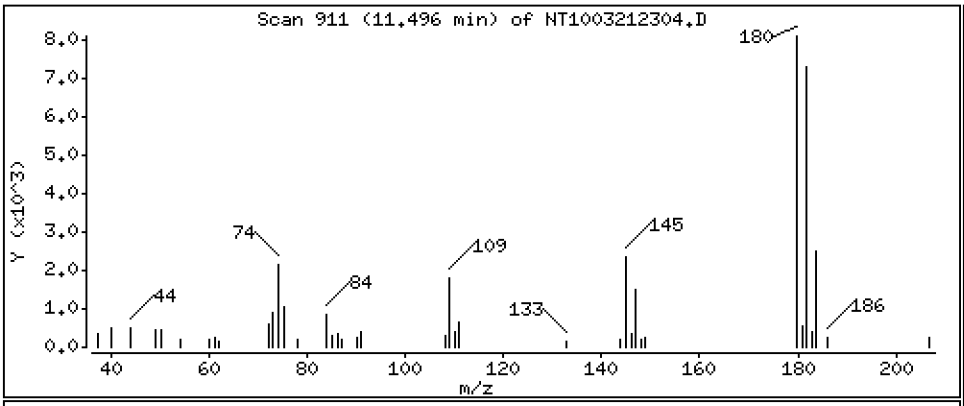
Operator: VTS

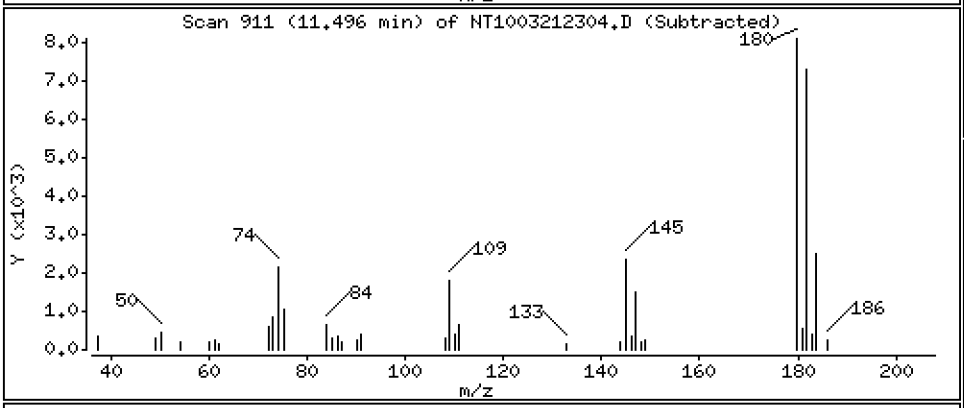
Column phase: ZB-5msi

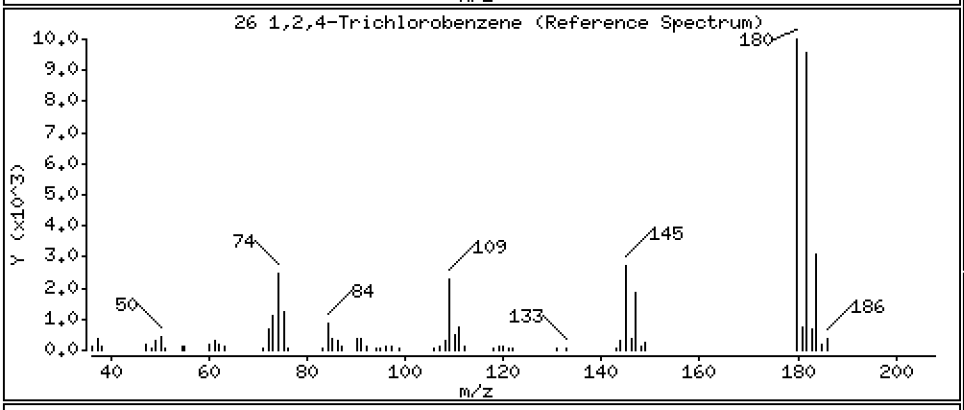
Column diameter: 0.25

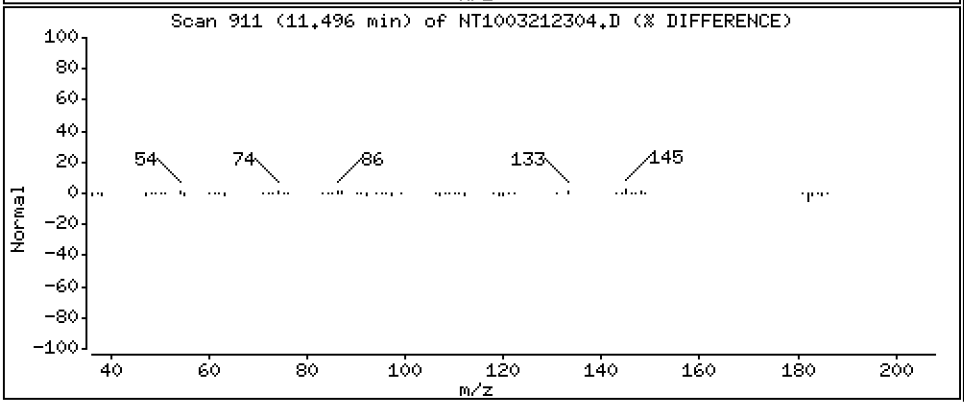
26 1,2,4-Trichlorobenzene

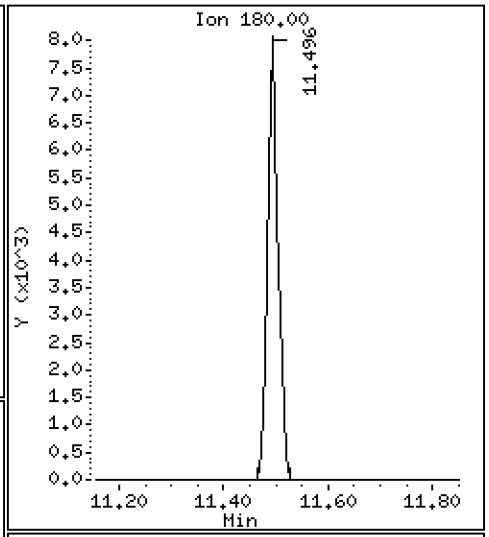
Concentration: 0.2288 ug/mL

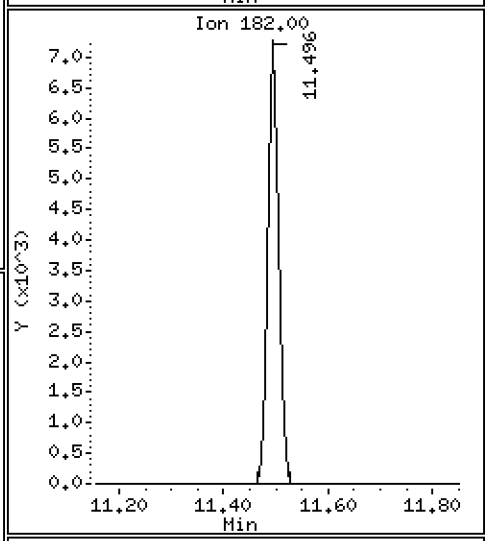


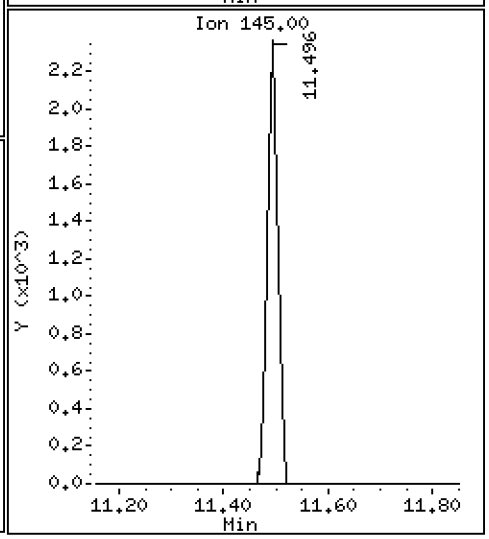












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

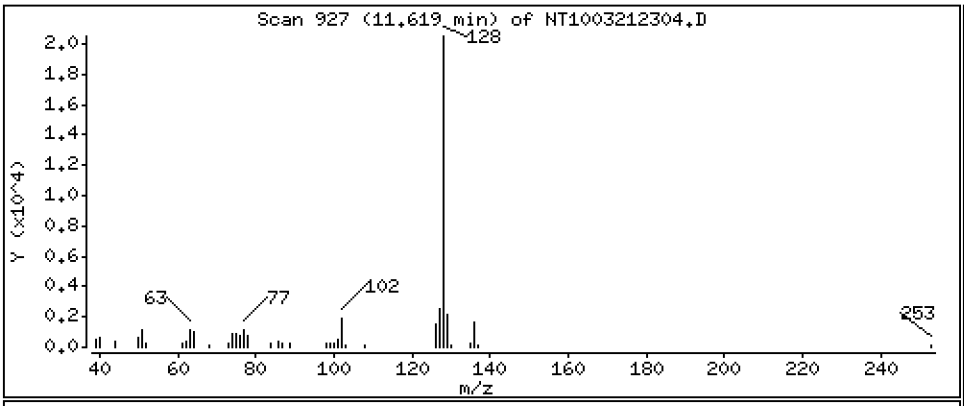
Operator: VTS

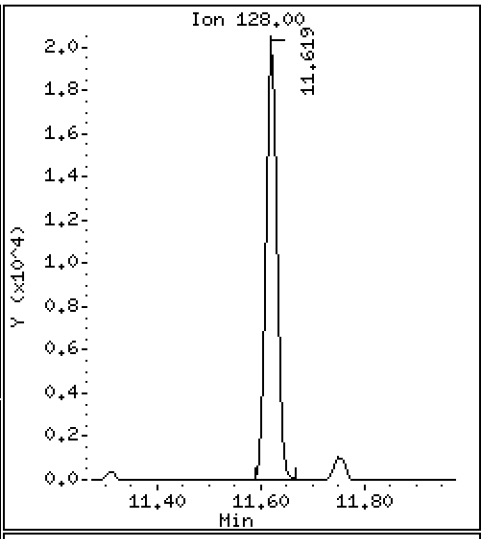
Column phase: ZB-5msi

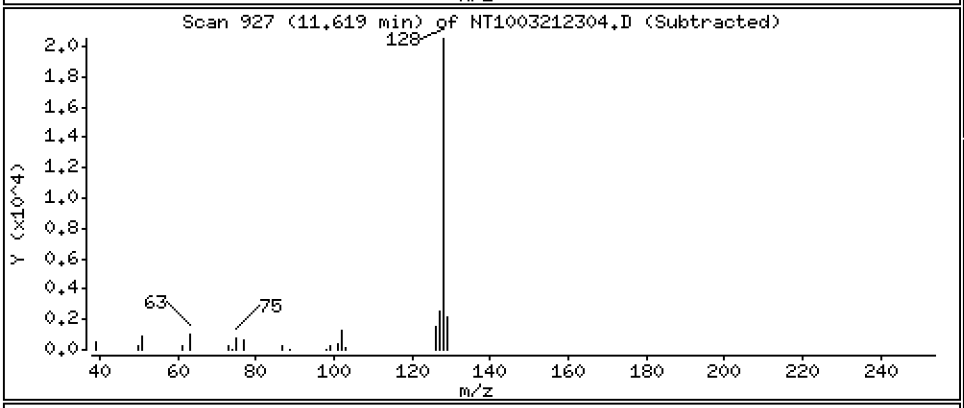
Column diameter: 0.25

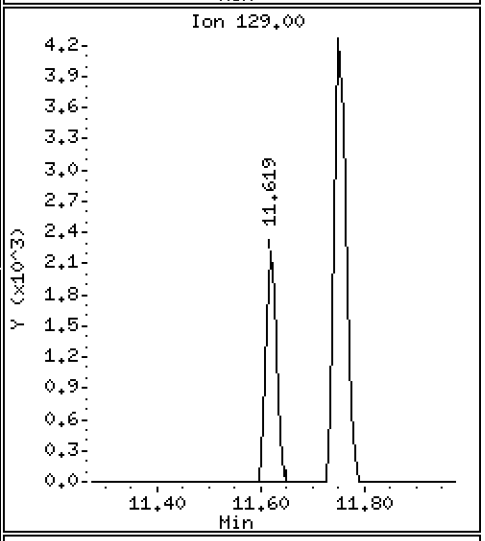
28 Naphthalene

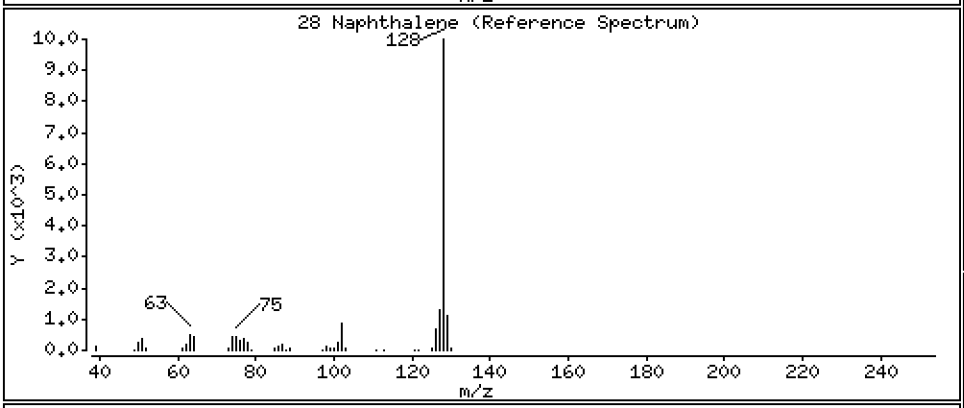
Concentration: 0.2105 ug/mL

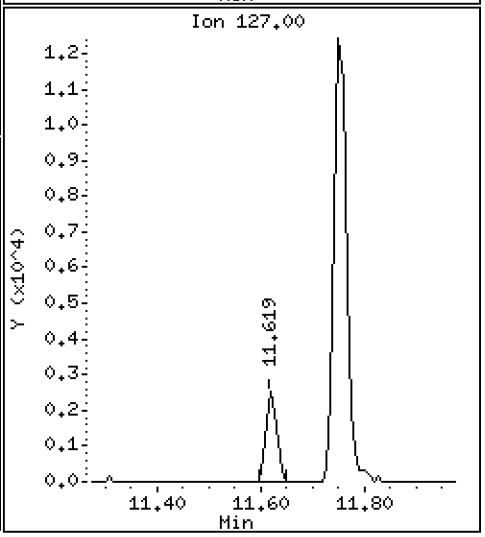


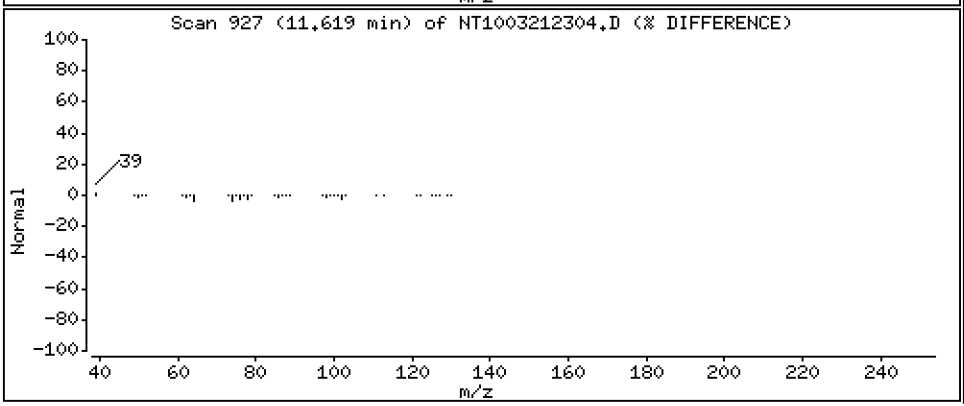












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212304.D

Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

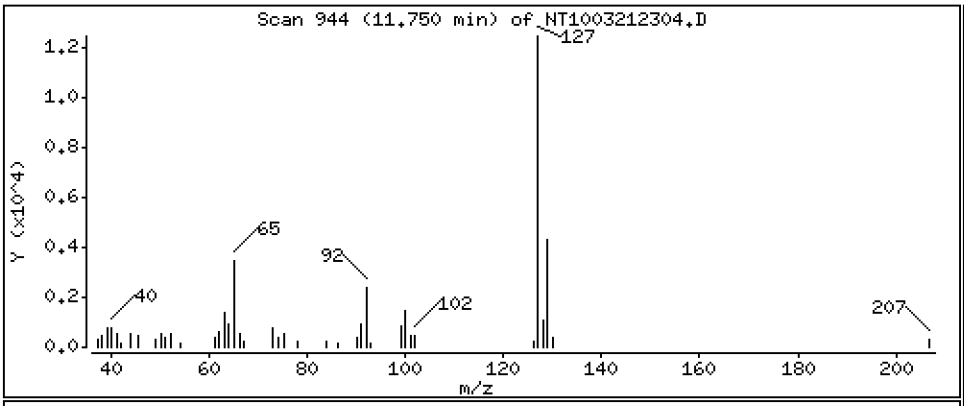
Operator: VTS

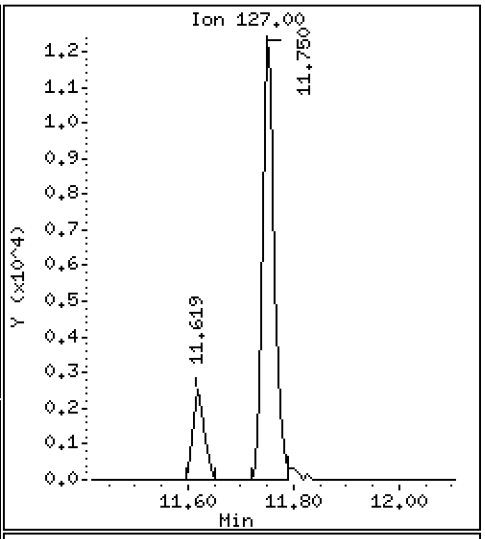
Column phase: ZB-5msi

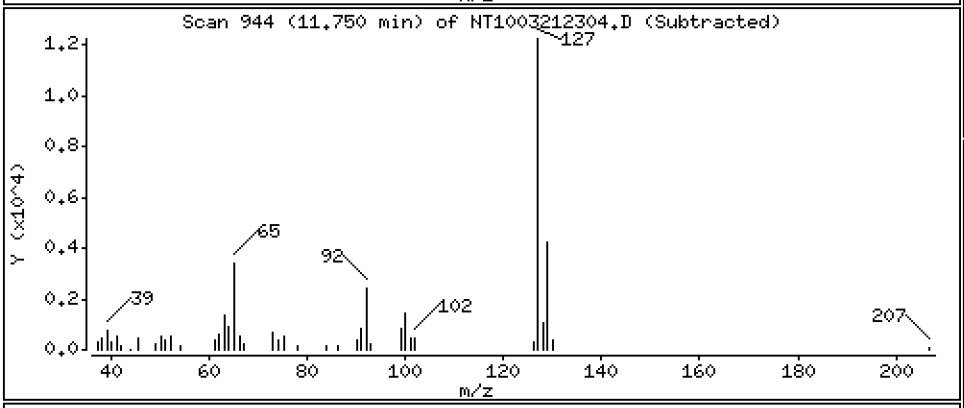
Column diameter: 0.25

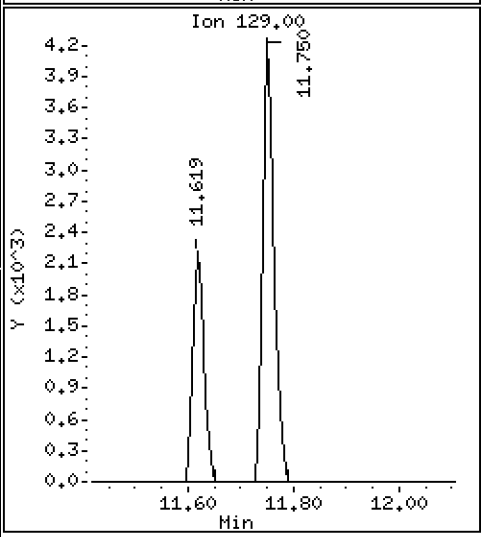
29 4-Chloroaniline

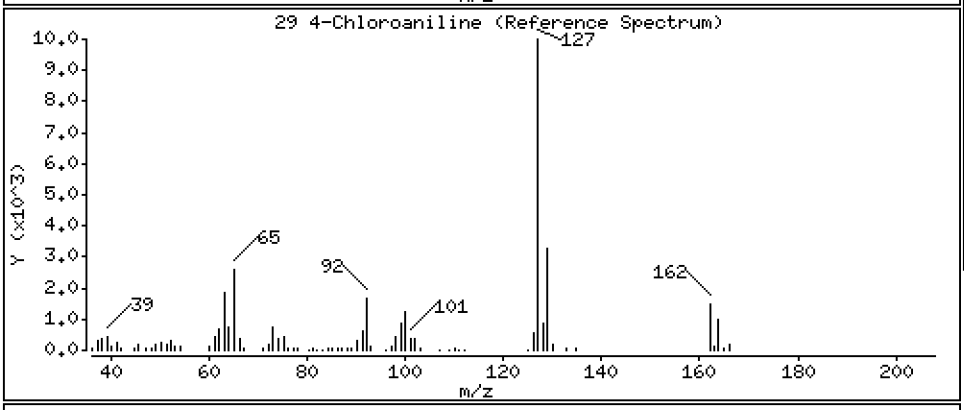
Concentration: 0.3395 ug/mL

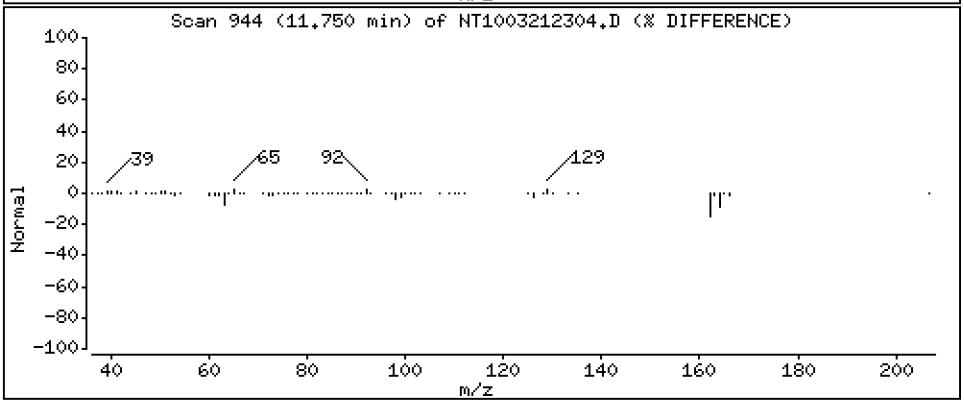












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

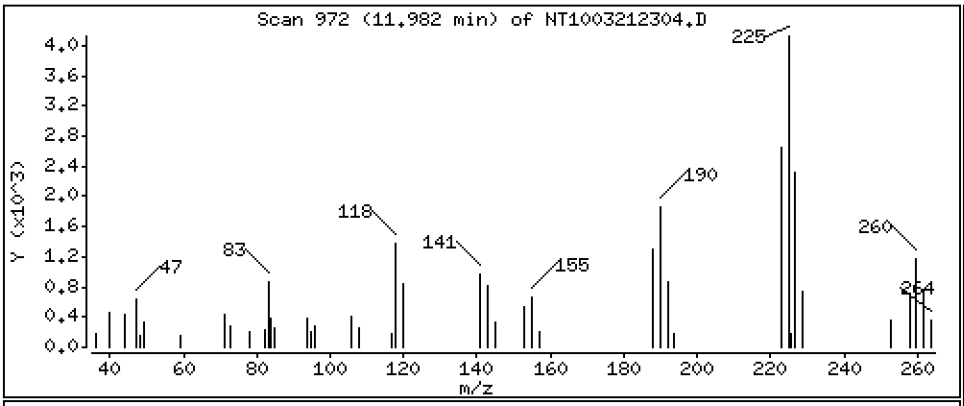
Operator: VTS

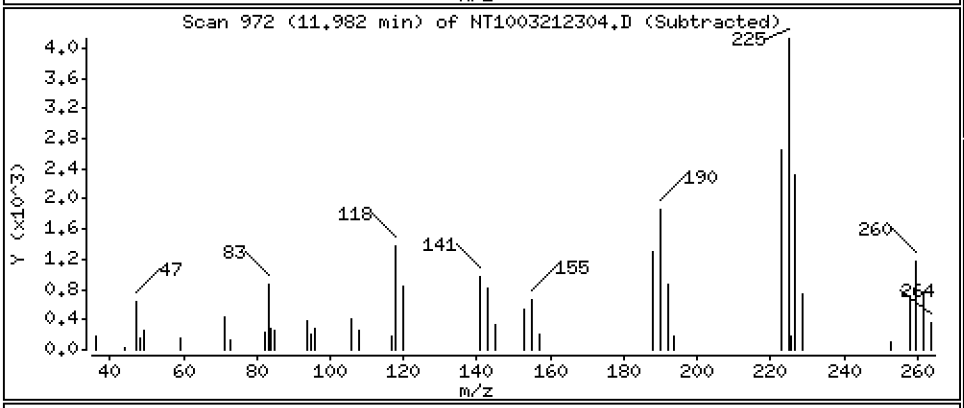
Column phase: ZB-5msi

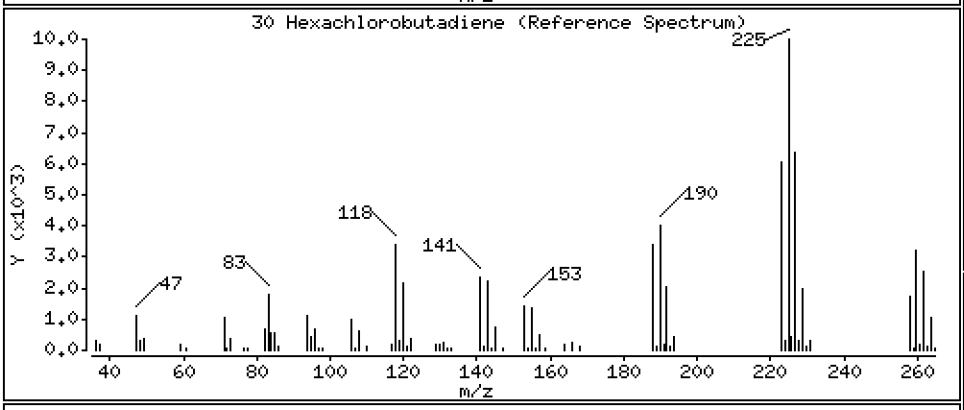
Column diameter: 0.25

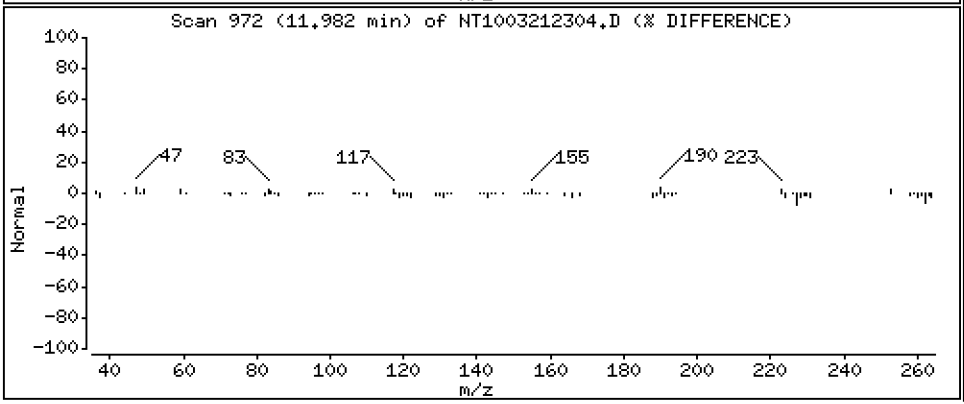
30 Hexachlorobutadiene

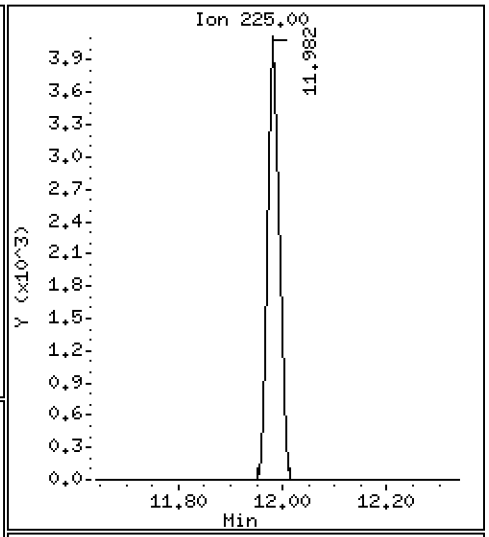
Concentration: 0.2201 ug/mL

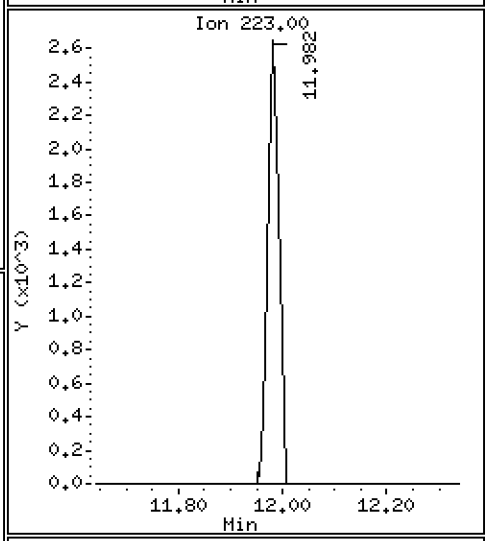


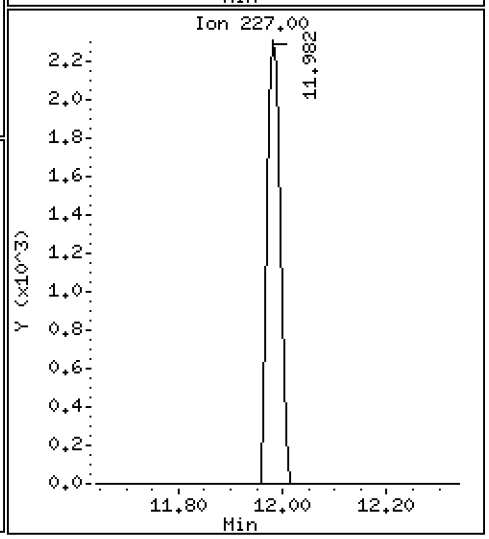












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212304.D

Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

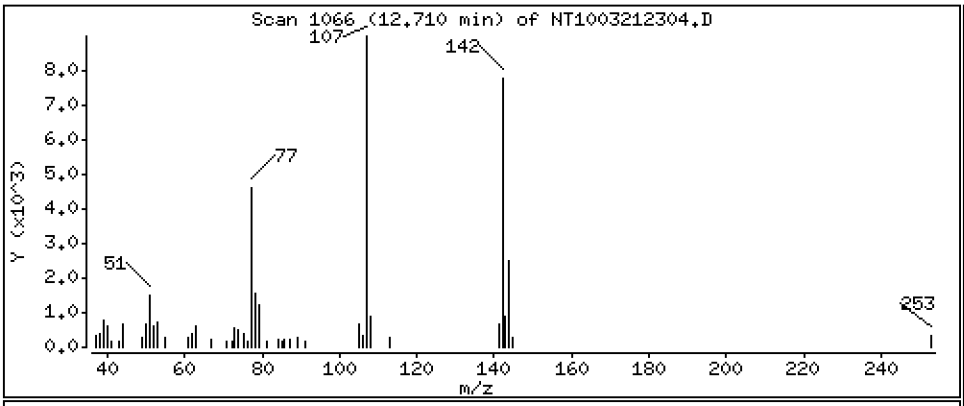
Operator: VTS

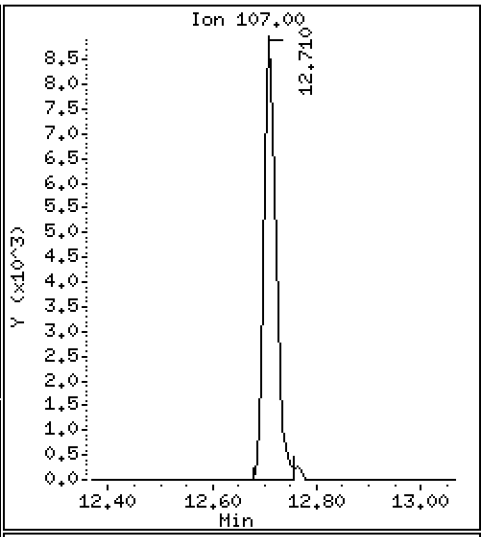
Column phase: ZB-5msi

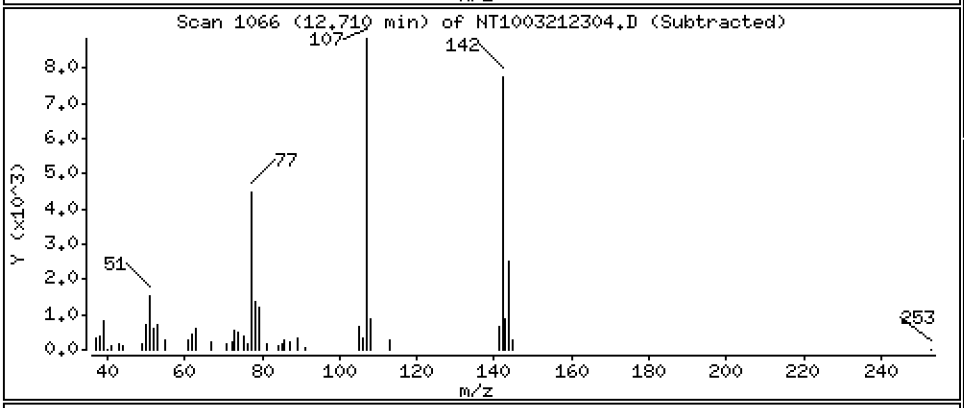
Column diameter: 0.25

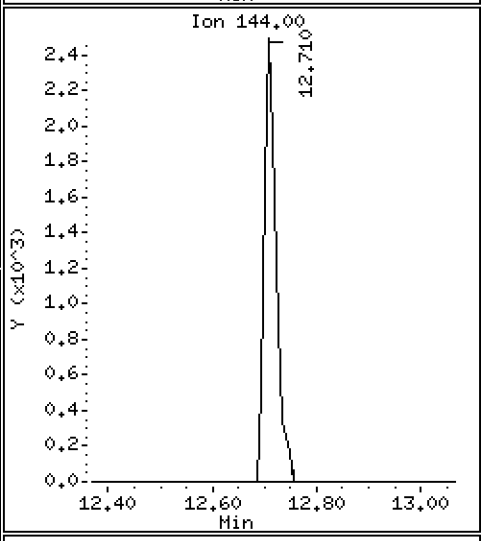
31 4-Chloro-3-methylphenol

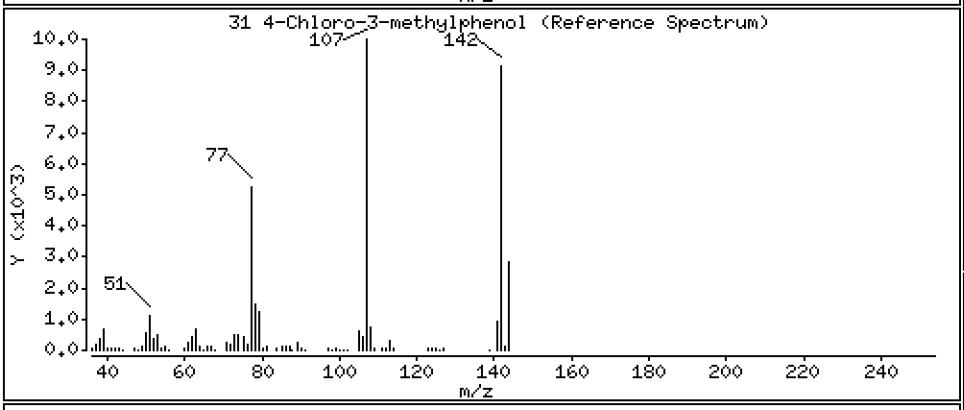
Concentration: 0.3208 ug/mL

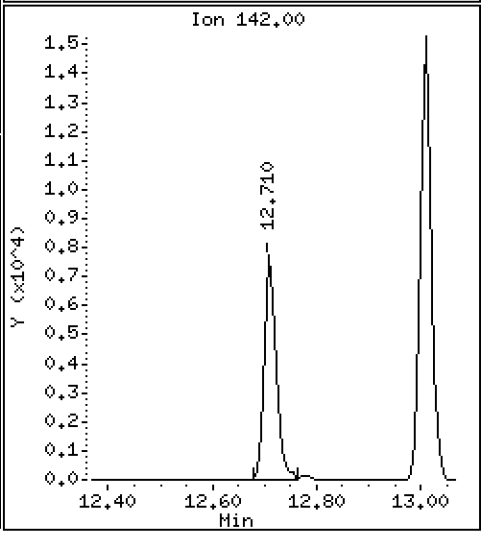


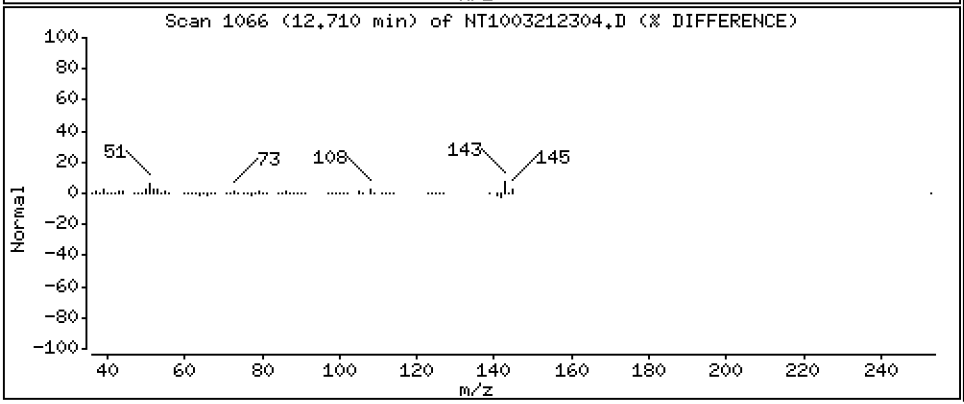












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

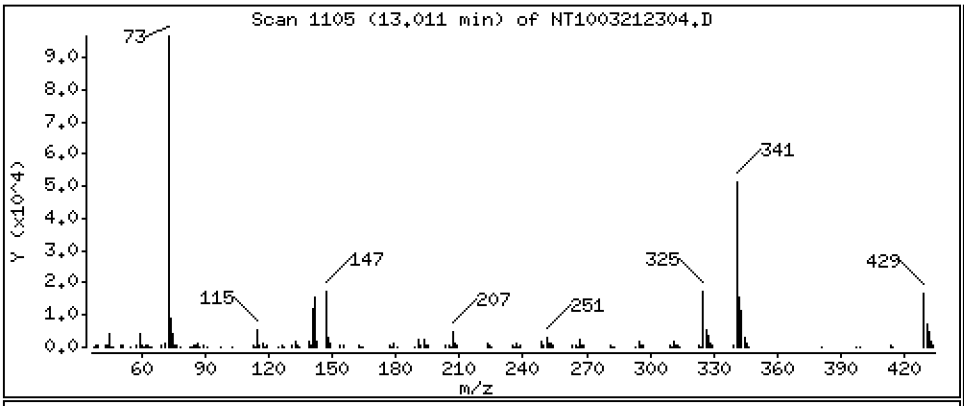
Operator: VTS

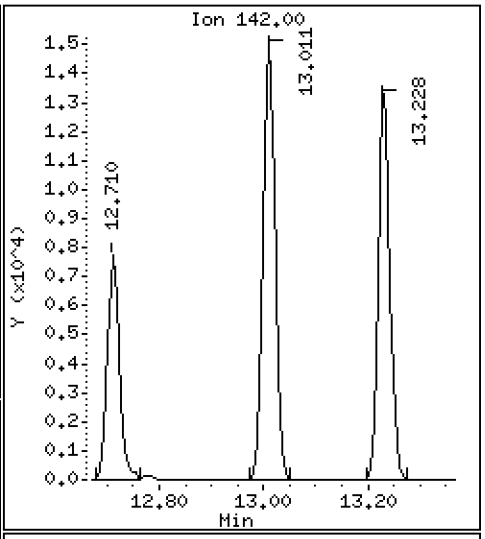
Column phase: ZB-5msi

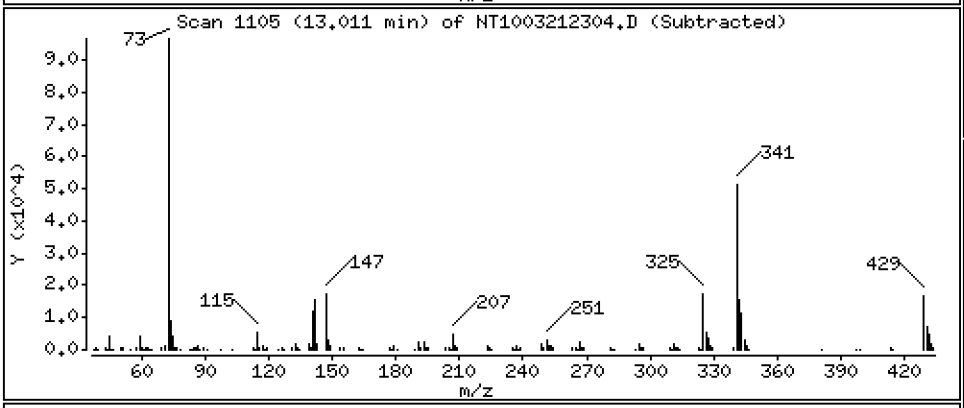
Column diameter: 0.25

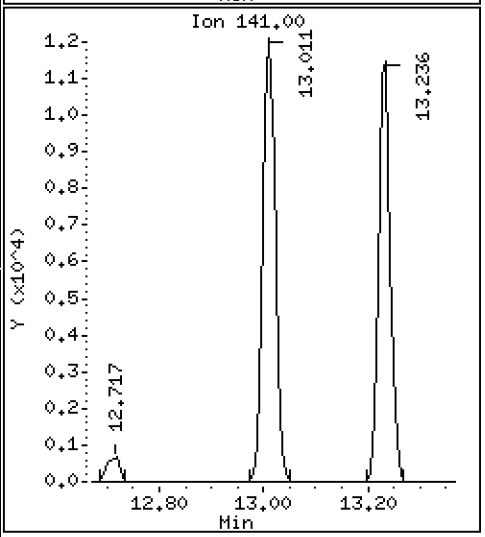
32 2-Methylnaphthalene

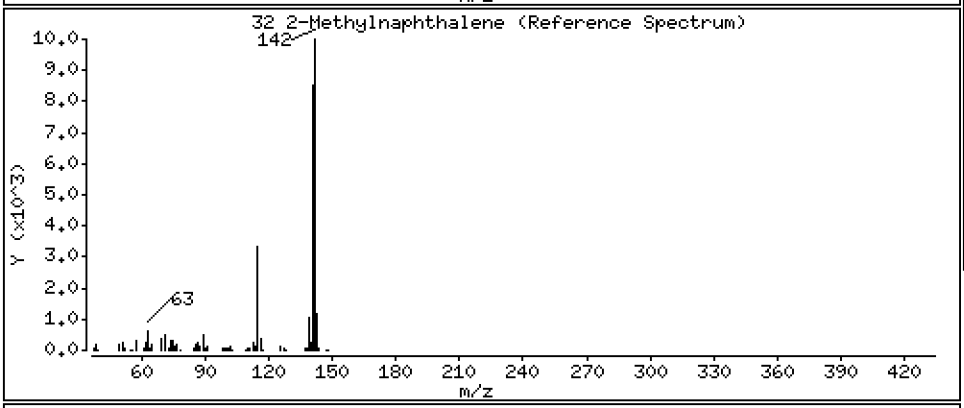
Concentration: 0.2120 ug/mL

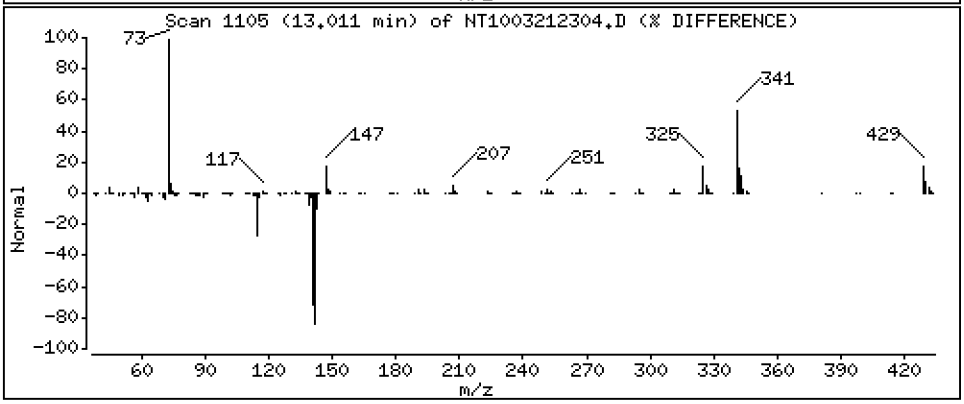












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

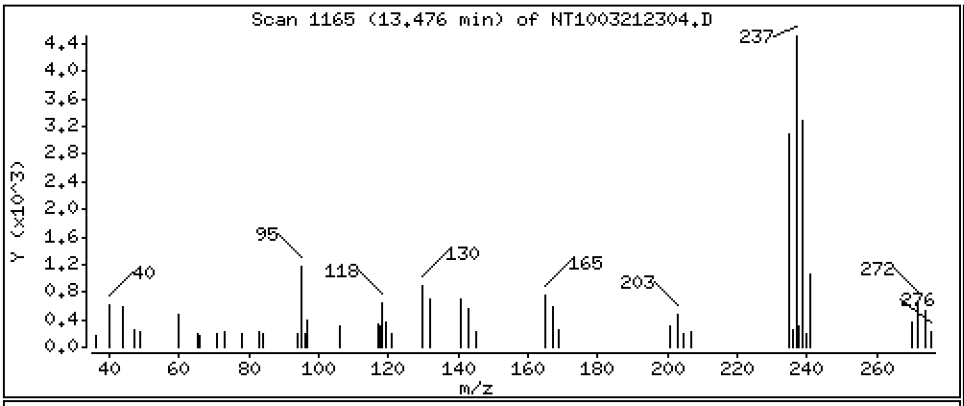
Operator: VTS

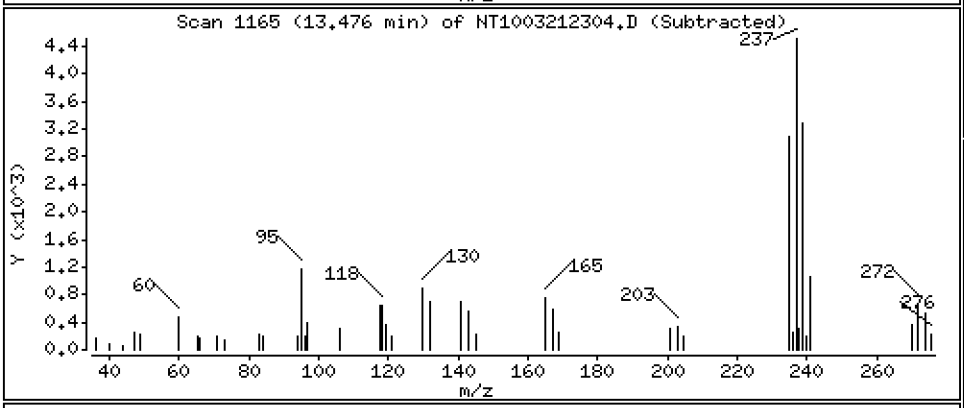
Column phase: ZB-5msi

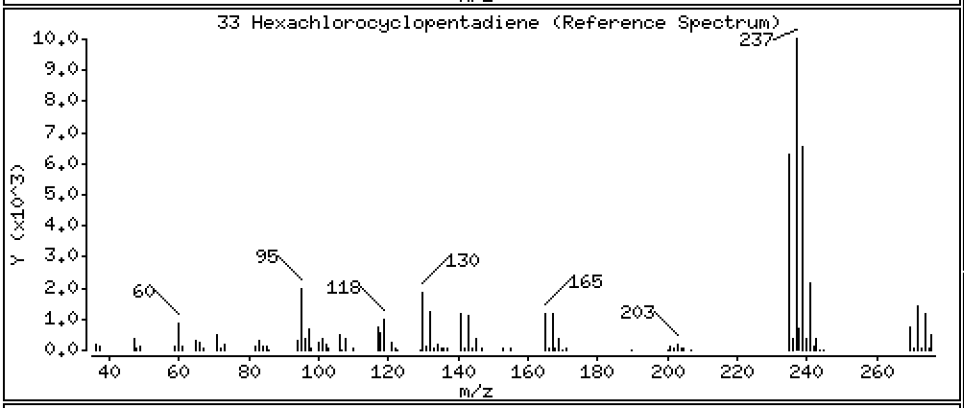
Column diameter: 0.25

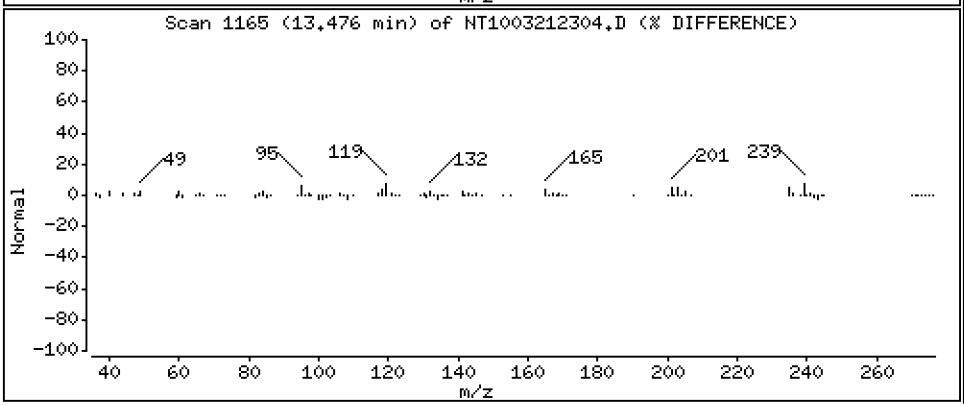
33 Hexachlorocyclopentadiene

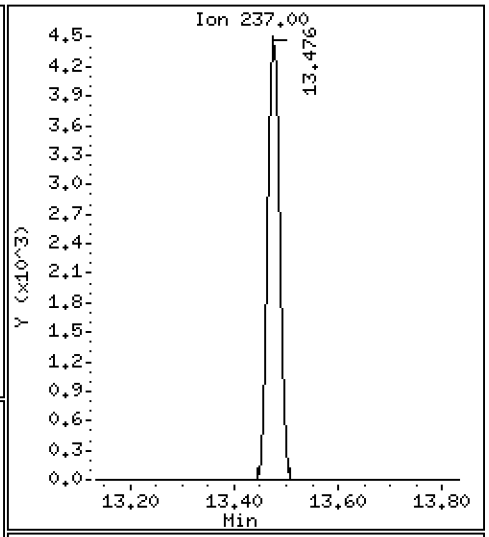
Concentration: 0.2521 ug/mL

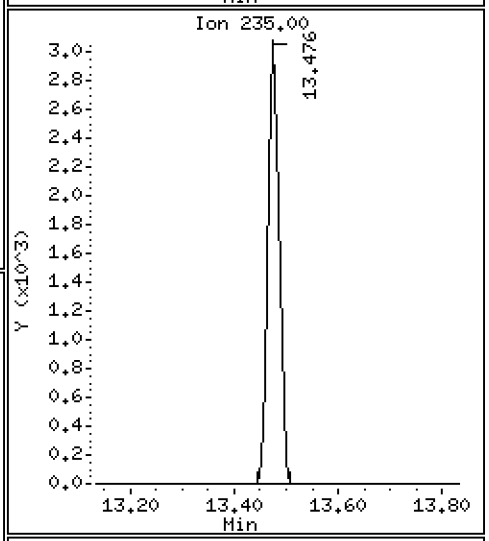


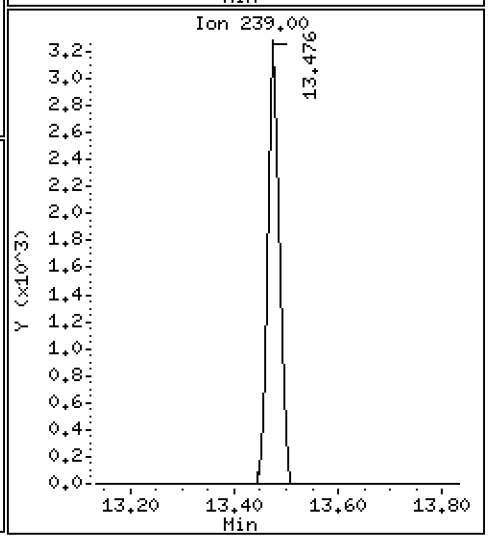












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

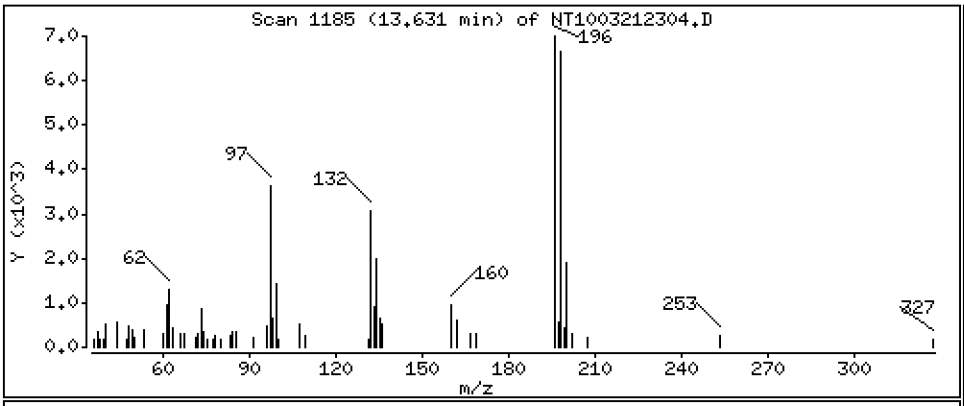
Operator: VTS

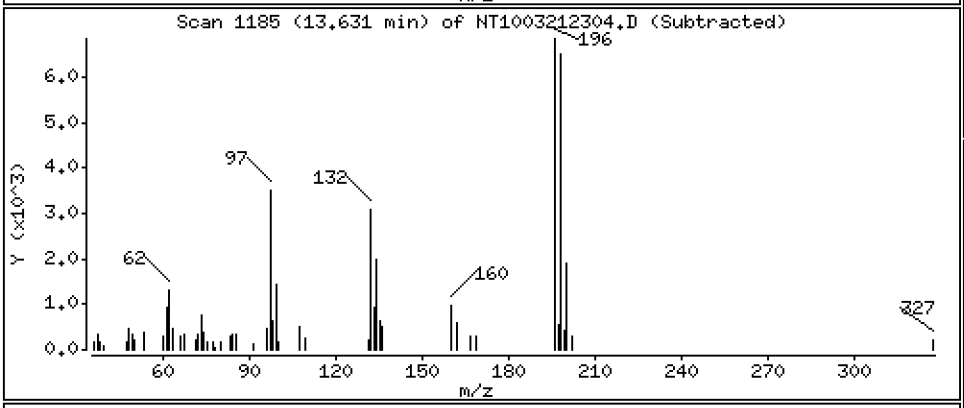
Column phase: ZB-5msi

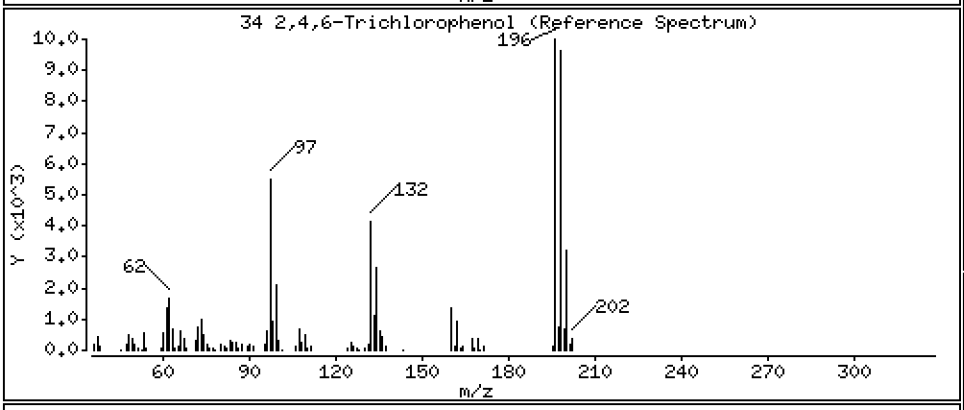
Column diameter: 0.25

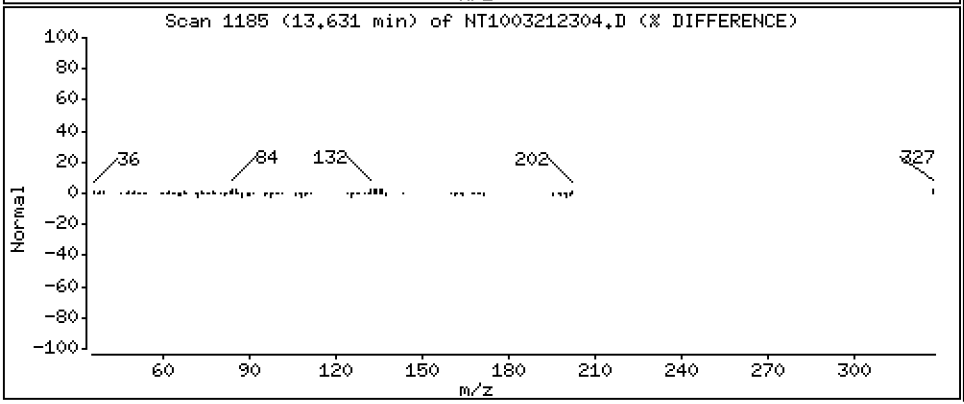
34 2,4,6-Trichlorophenol

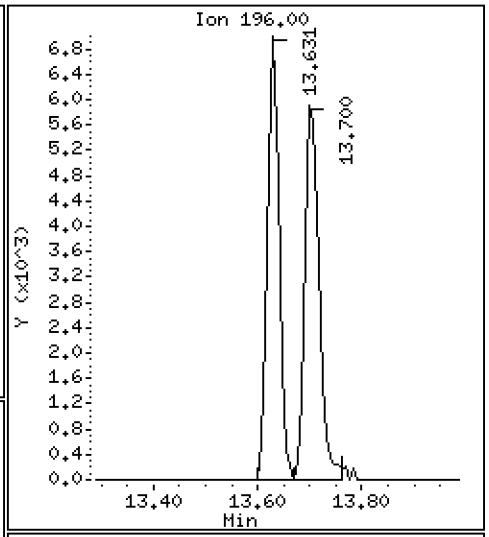
Concentration: 0.3445 ug/mL

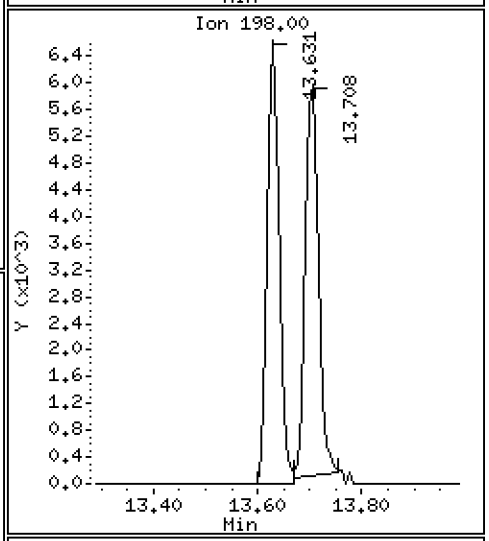


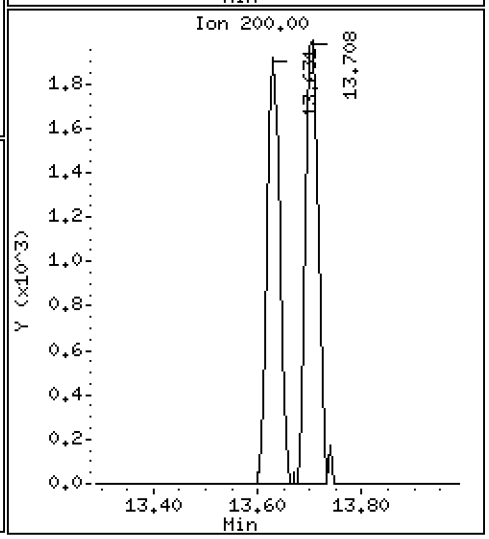












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212304.D

Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

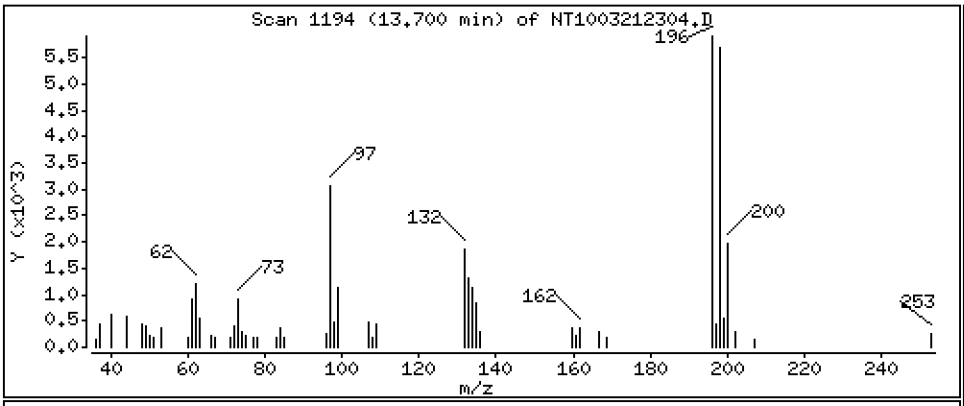
Operator: VTS

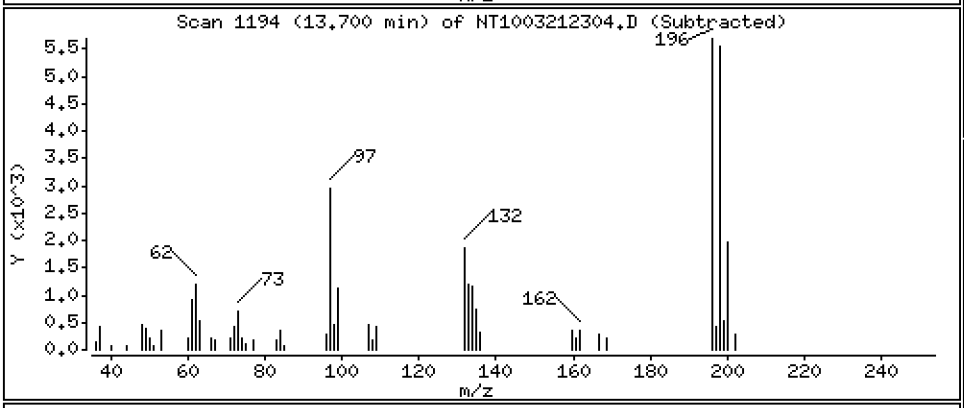
Column phase: ZB-5msi

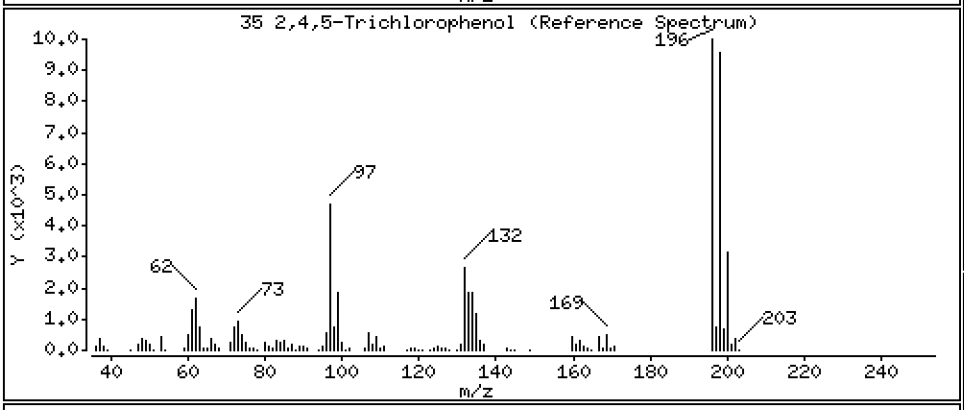
Column diameter: 0.25

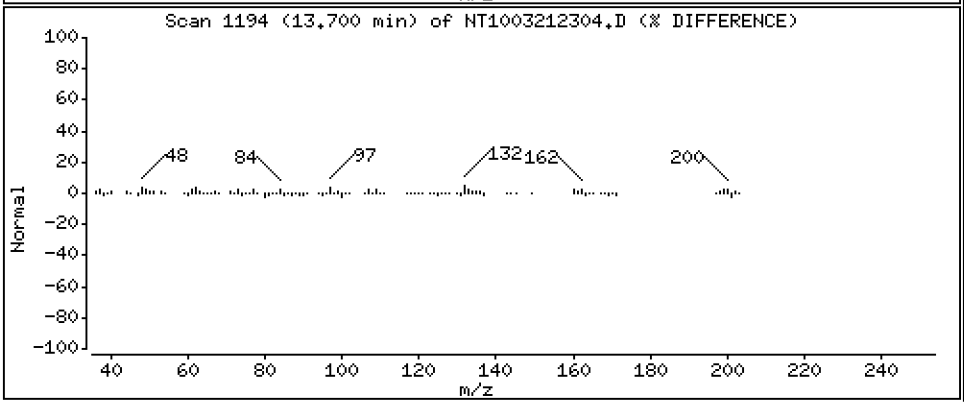
35 2,4,5-Trichlorophenol

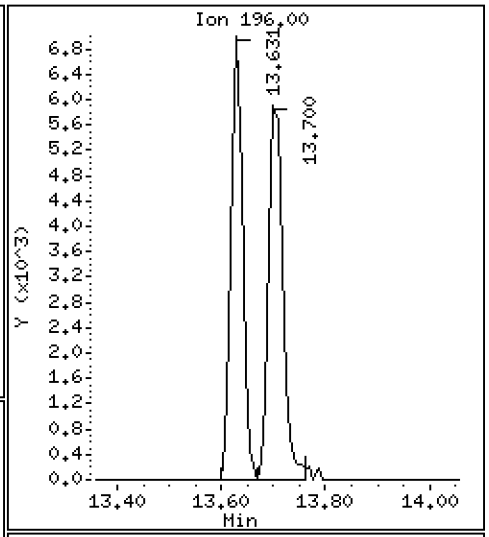
Concentration: 0.3299 ug/mL

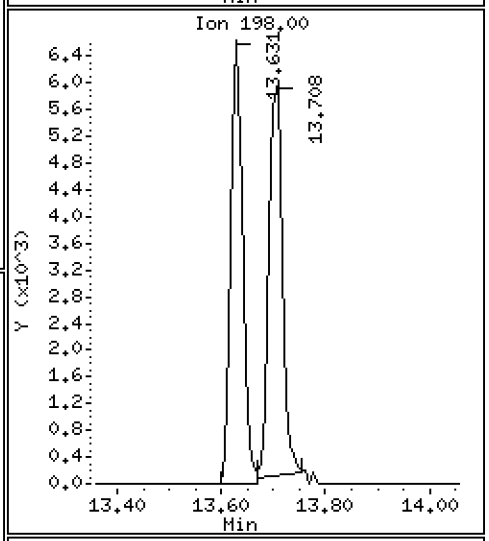


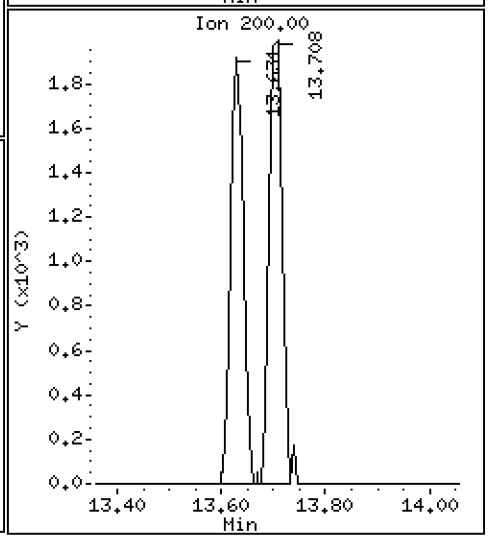












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212304.D

Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

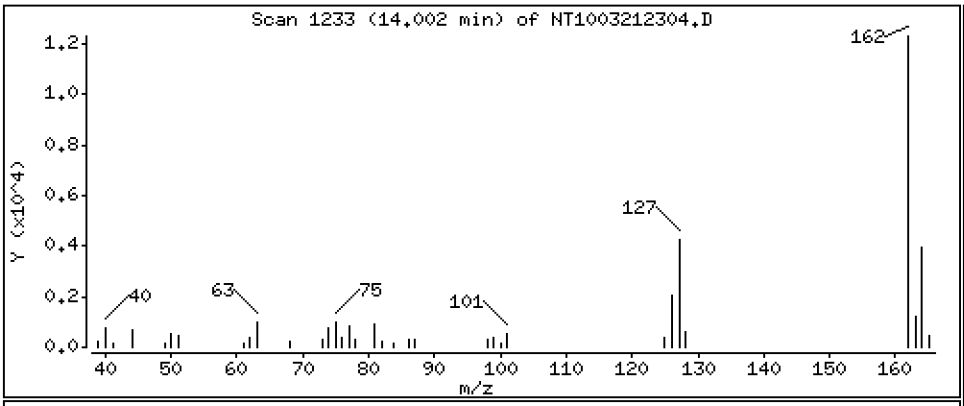
Operator: VTS

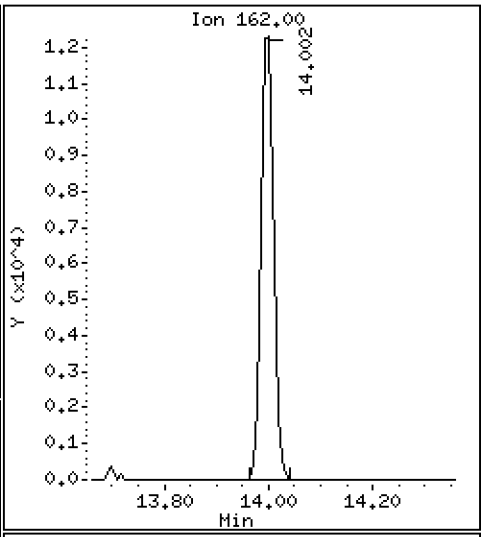
Column phase: ZB-5msi

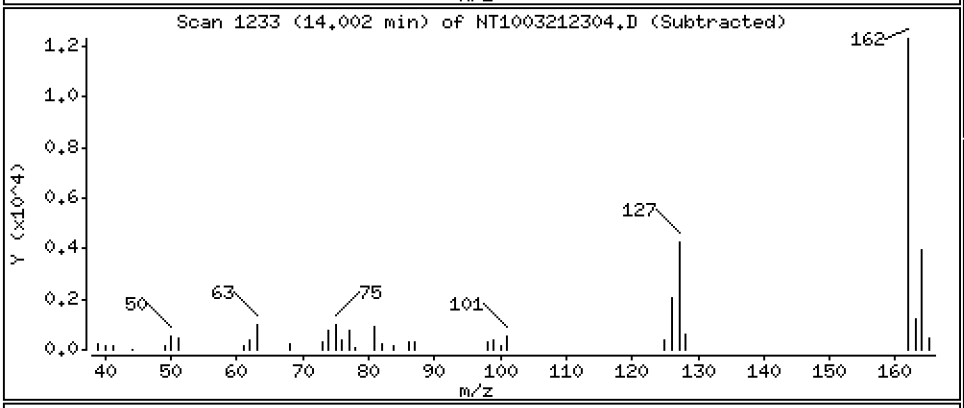
Column diameter: 0.25

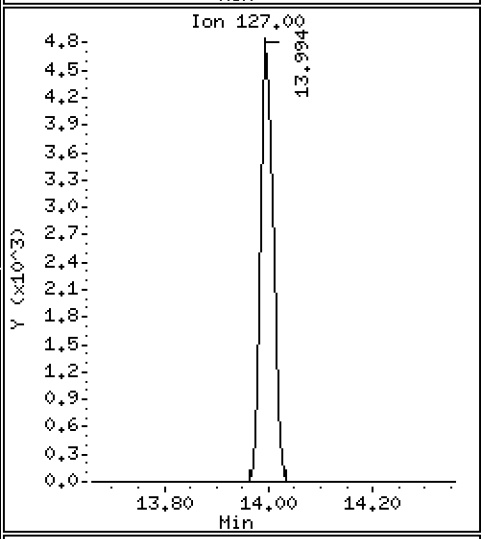
37 2-Chloronaphthalene

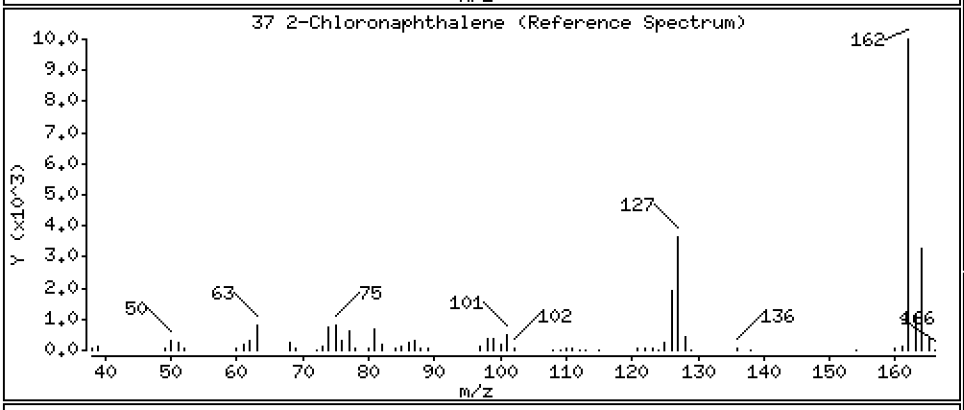
Concentration: 0.2060 ug/mL

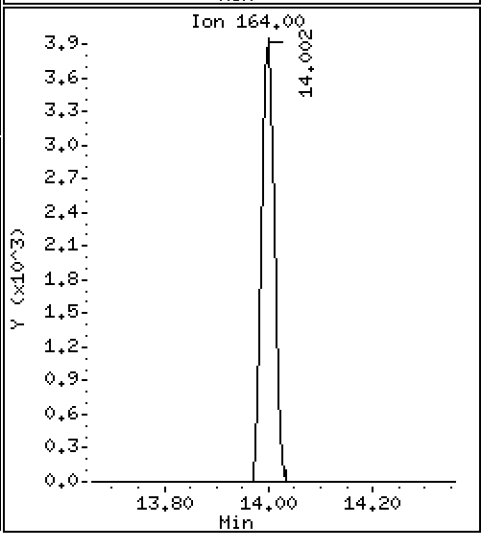


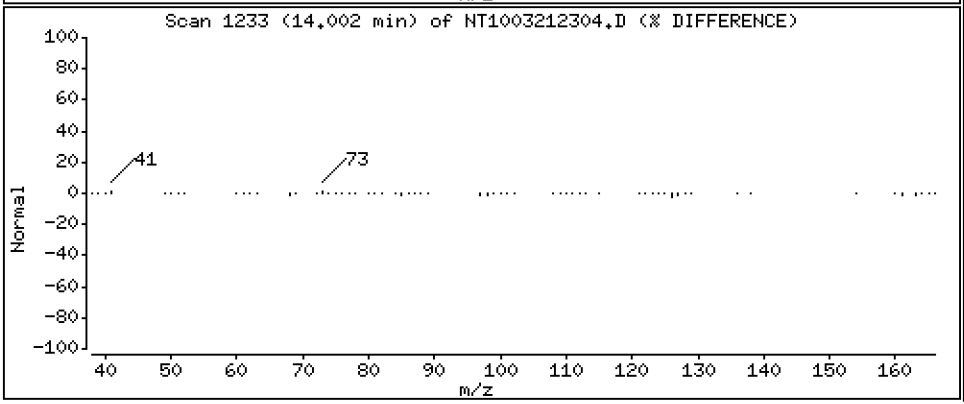












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

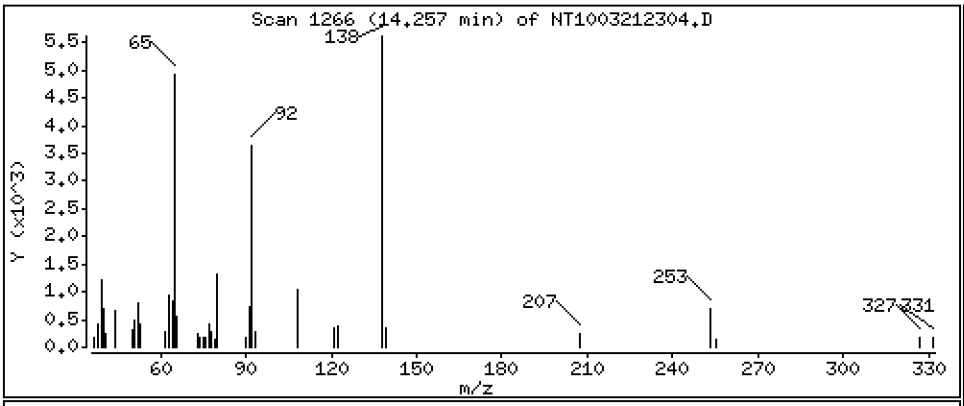
Operator: VTS

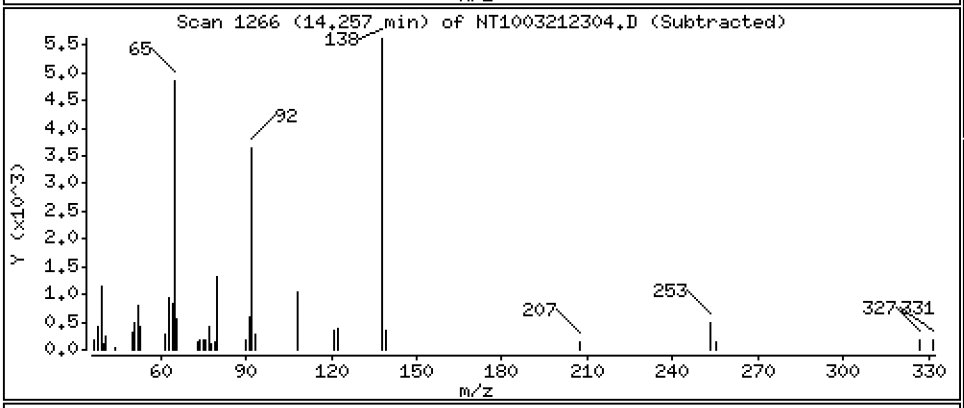
Column phase: ZB-5msi

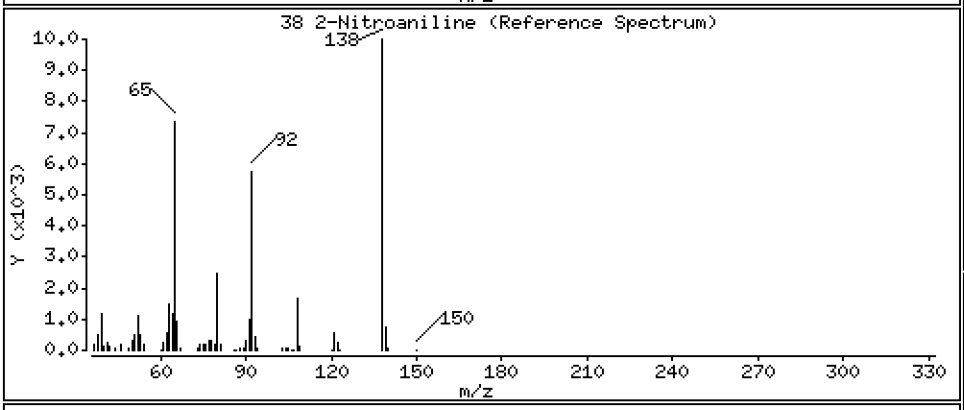
Column diameter: 0.25

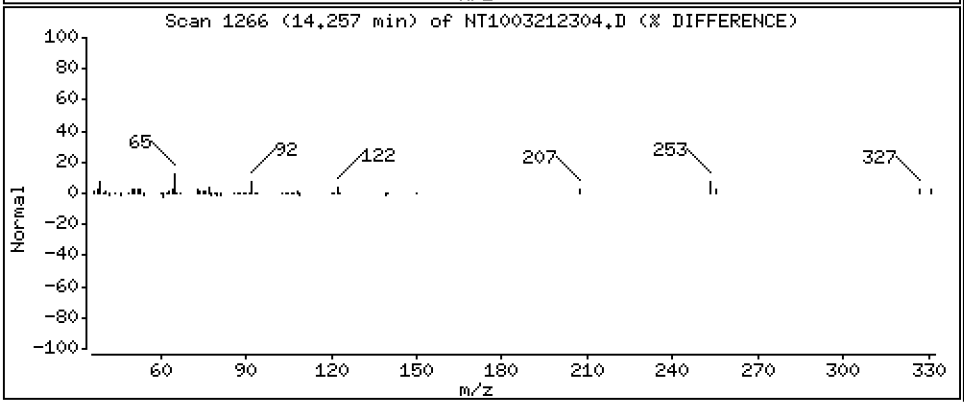
38 2-Nitroaniline

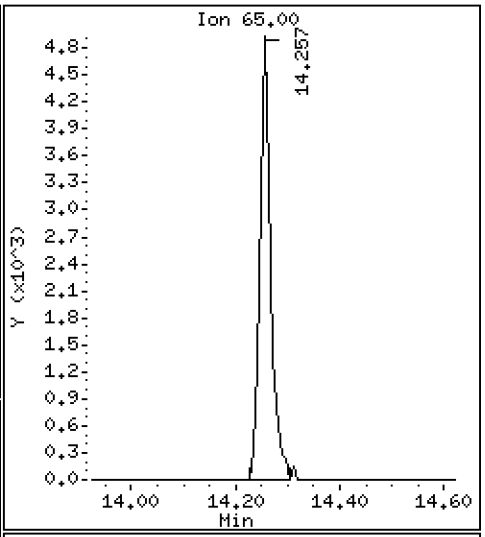
Concentration: 0.2646 ug/mL

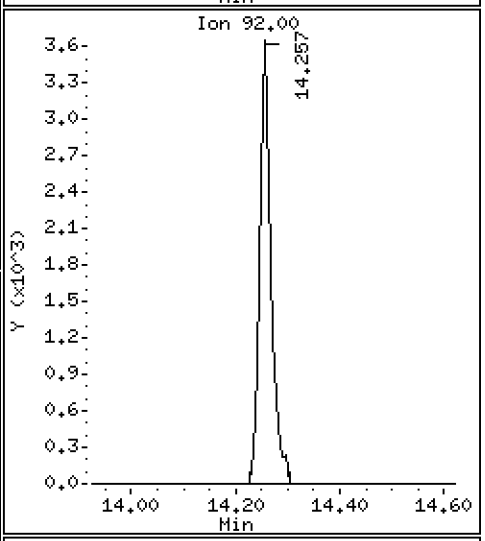


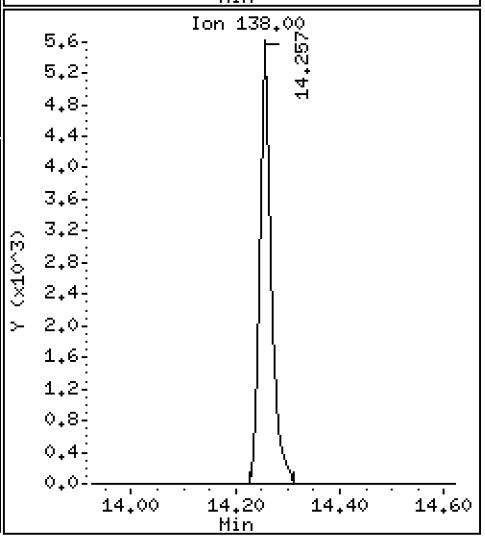












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

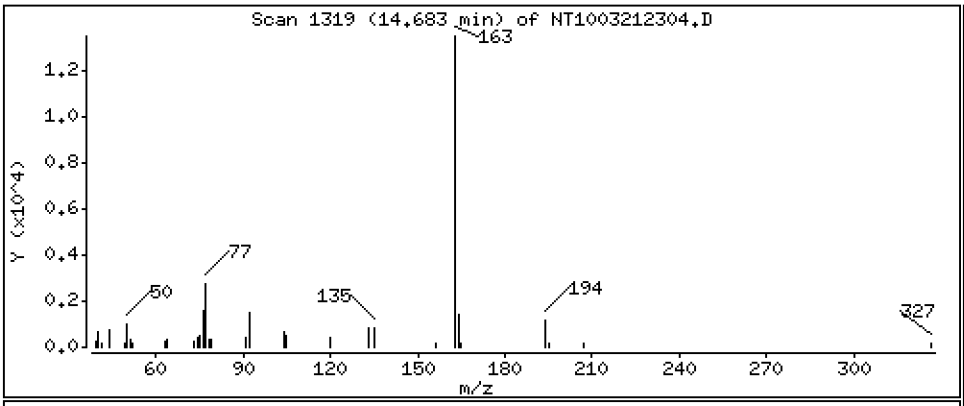
Operator: VTS

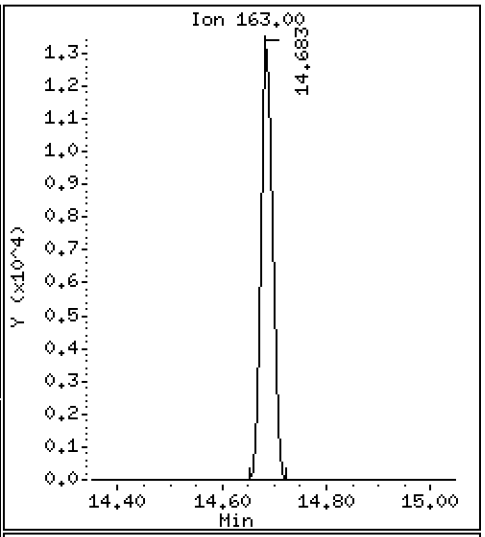
Column phase: ZB-5msi

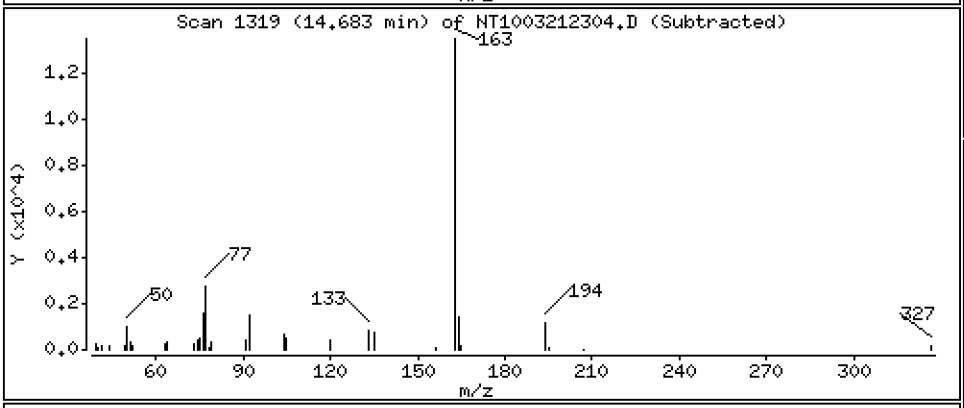
Column diameter: 0.25

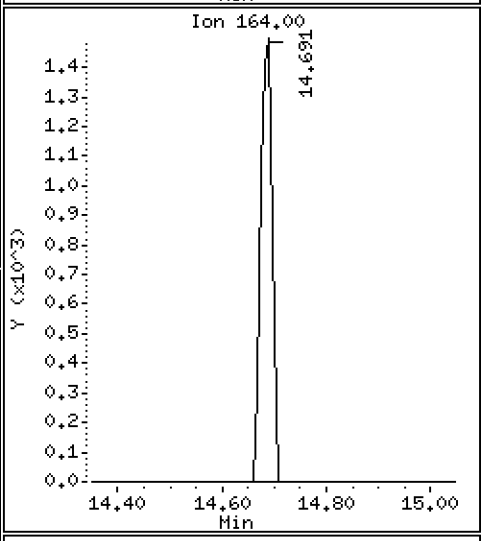
39 Dimethylphthalate

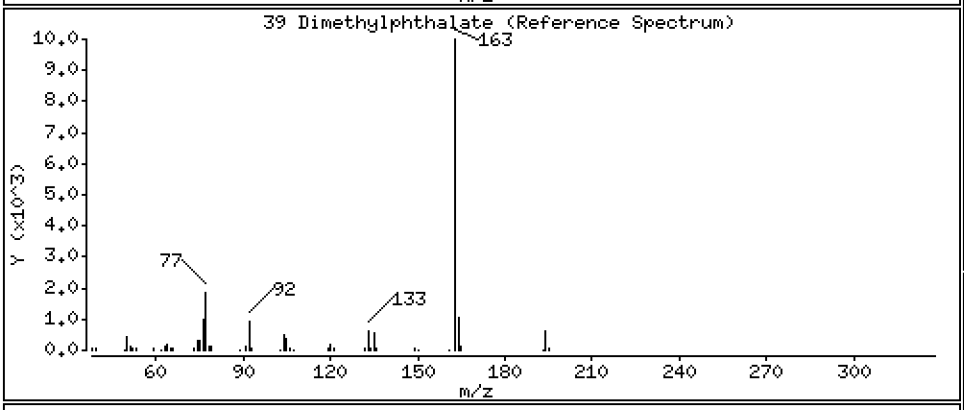
Concentration: 0.2026 ug/mL

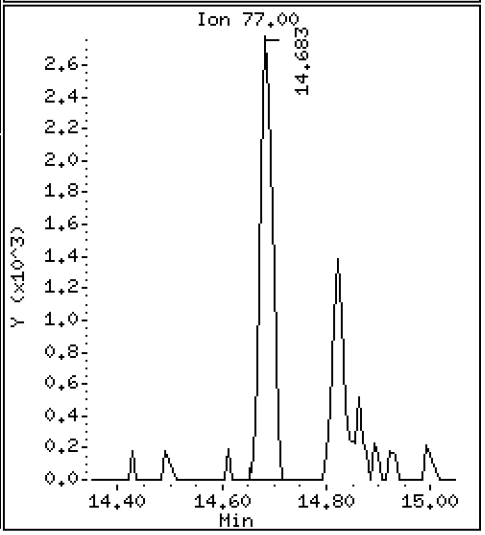


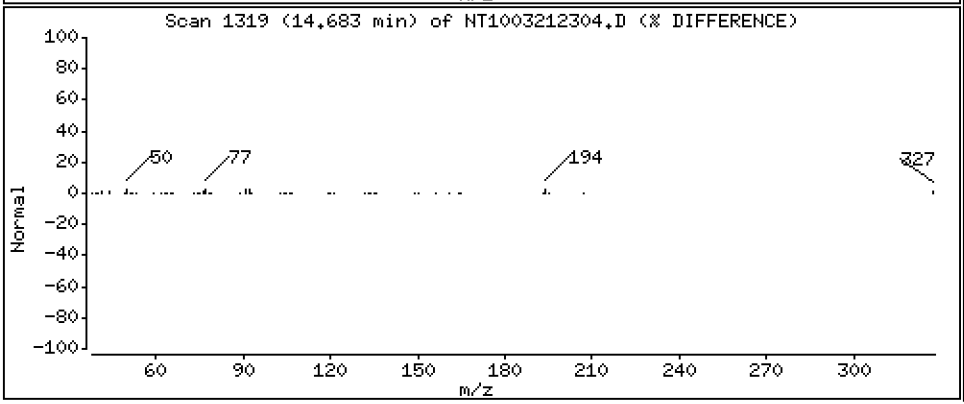












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

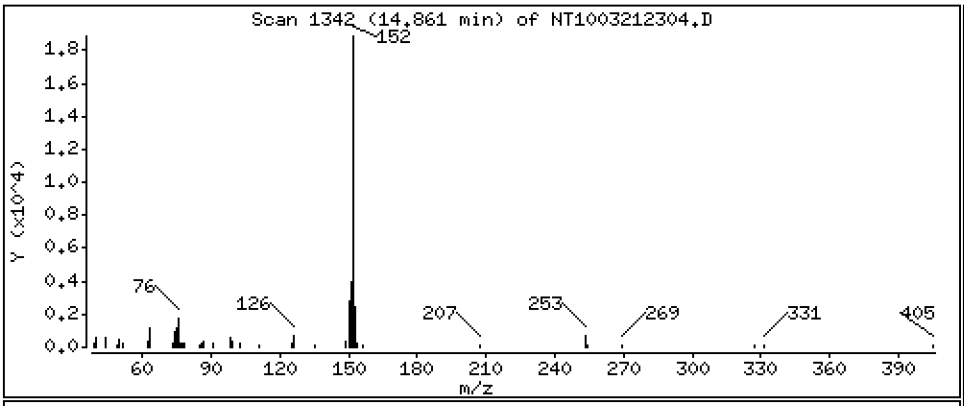
Operator: VTS

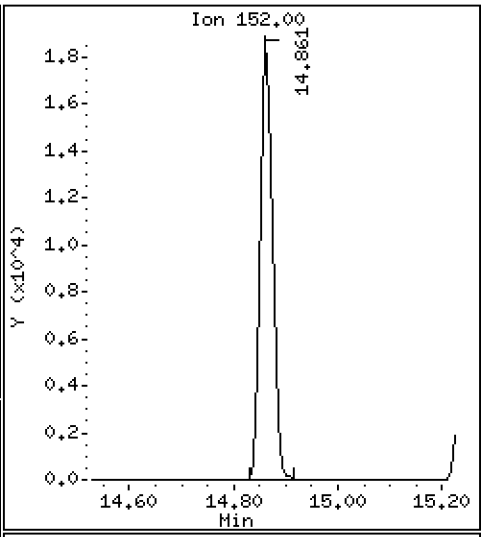
Column phase: ZB-5msi

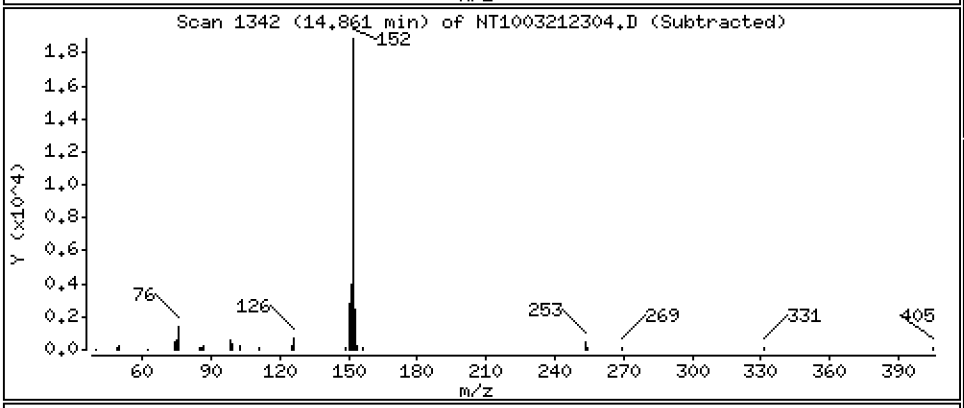
Column diameter: 0.25

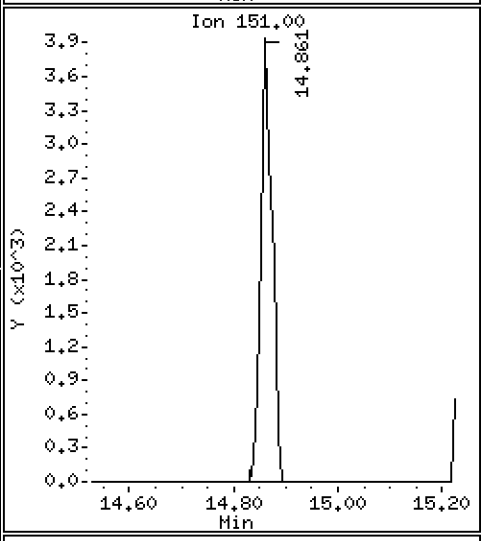
40 Acenaphthylene

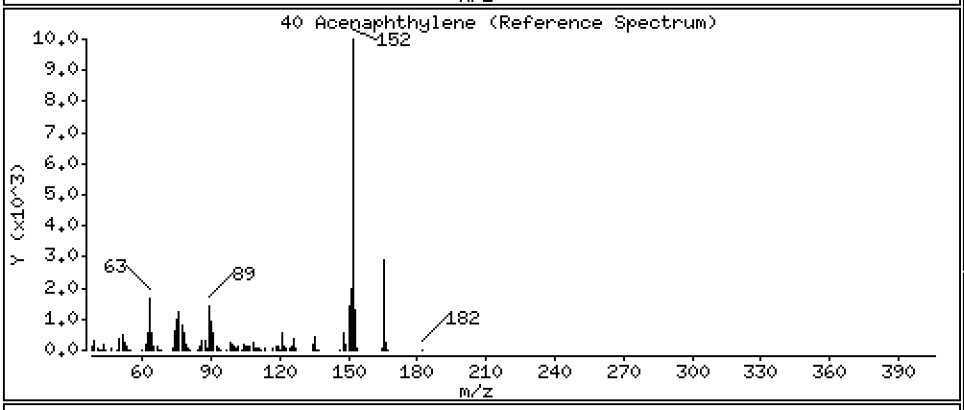
Concentration: 0.1966 ug/mL

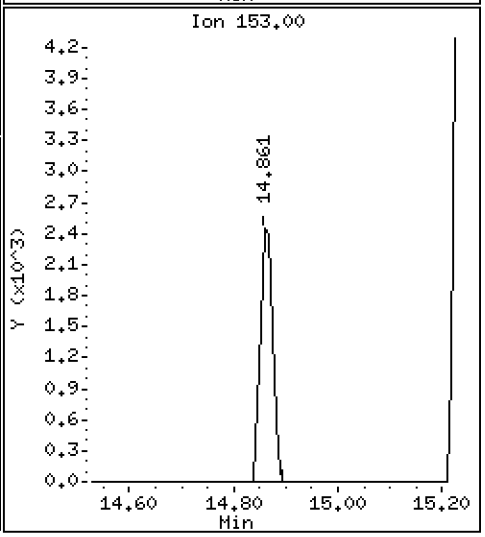


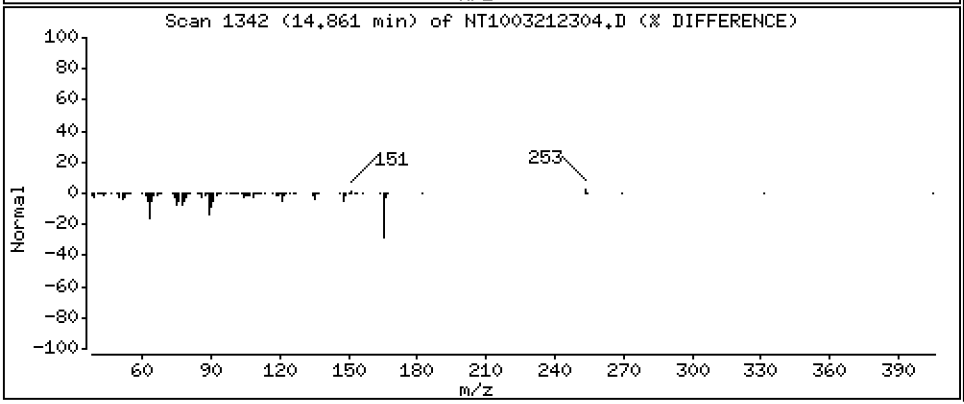












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

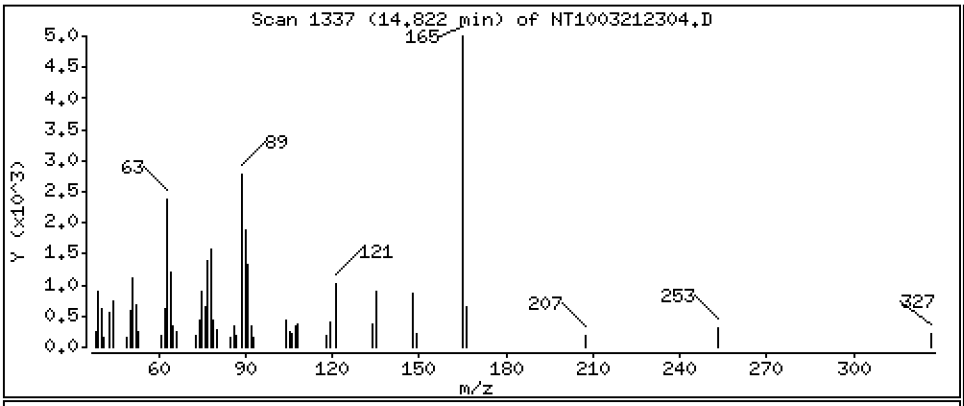
Operator: VTS

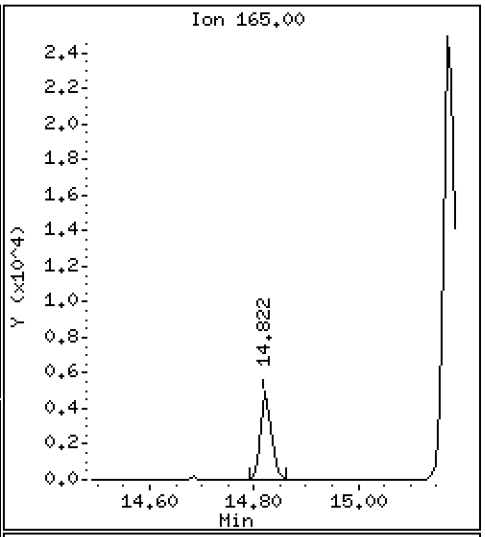
Column phase: ZB-5msi

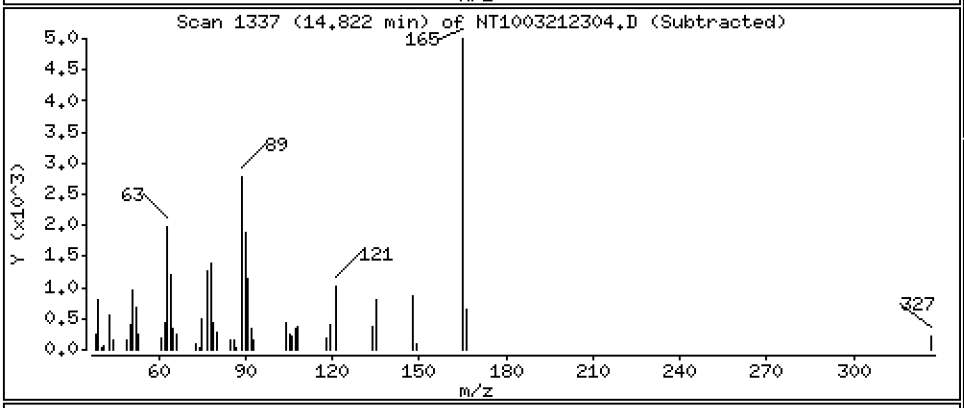
Column diameter: 0.25

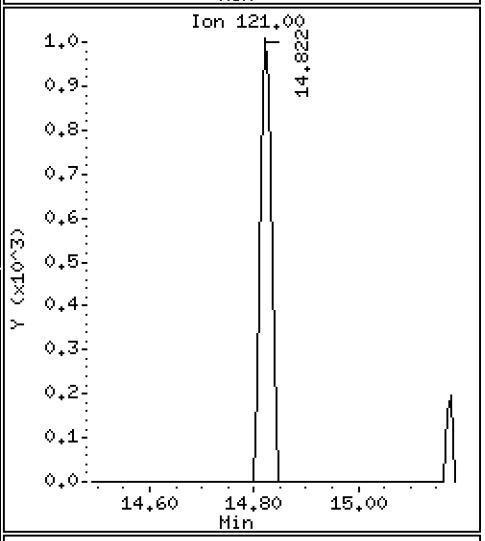
41 2,6-Dinitrotoluene

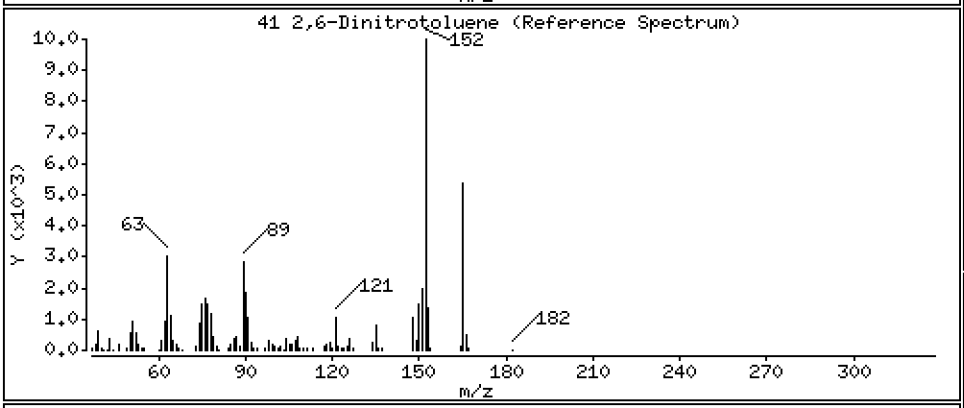
Concentration: 0.3300 ug/mL

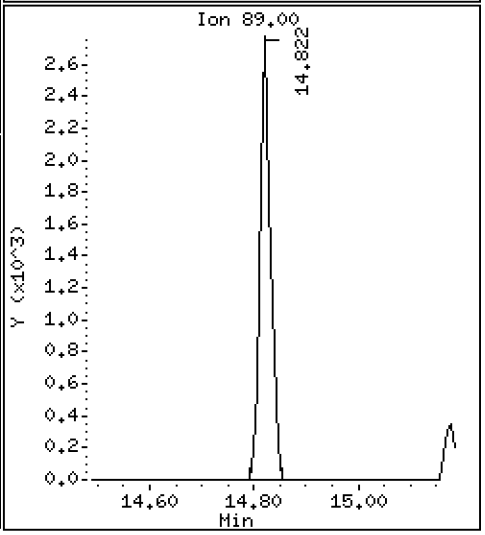


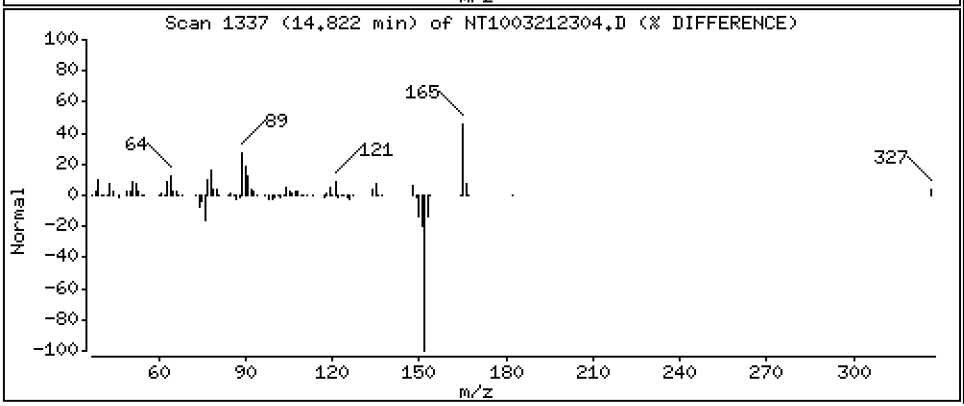












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

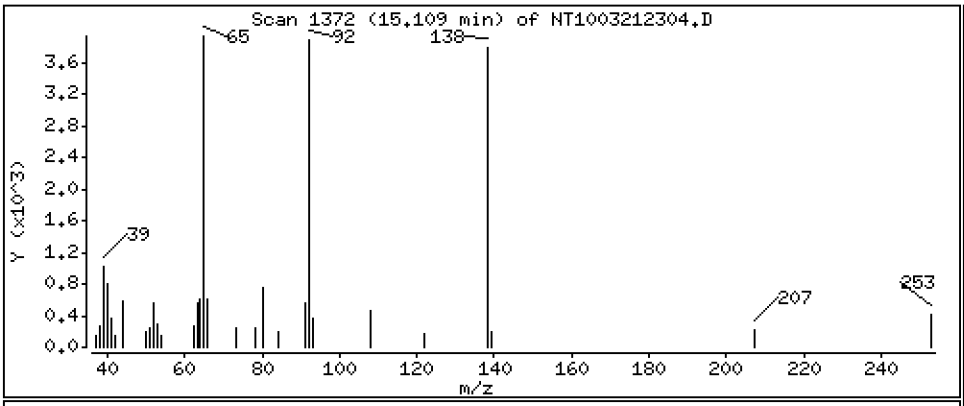
Operator: VTS

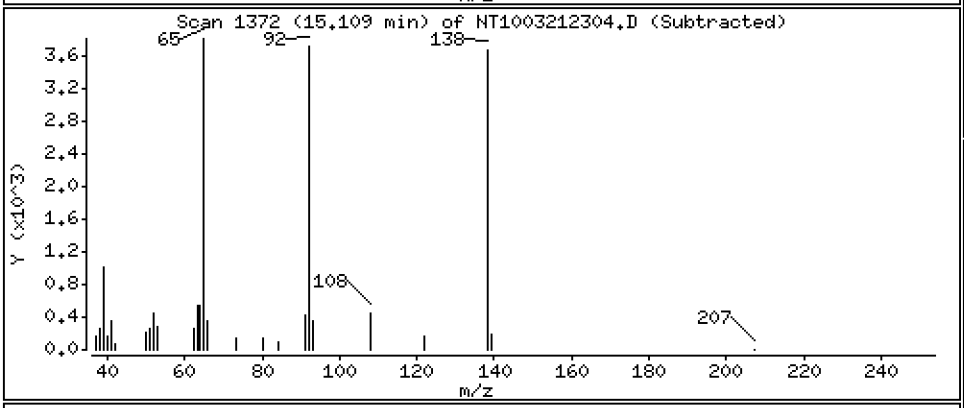
Column phase: ZB-5msi

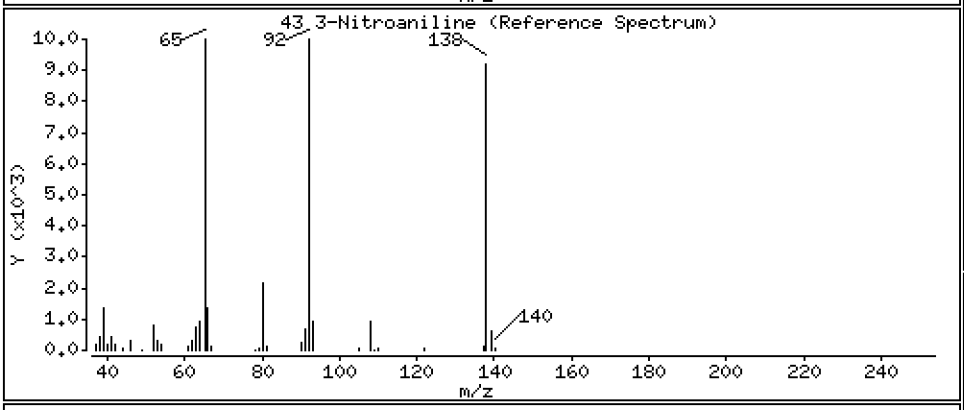
Column diameter: 0.25

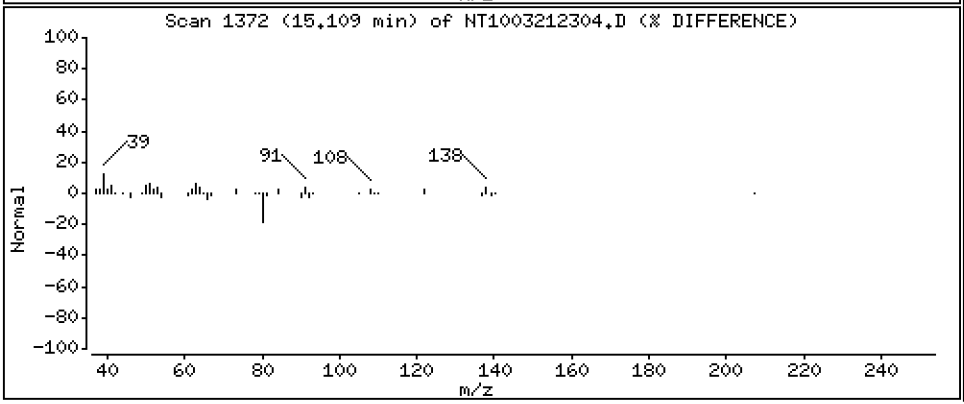
43 3-Nitroaniline

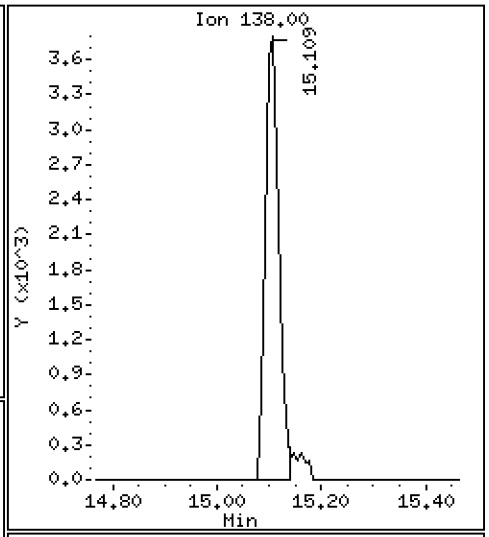
Concentration: 0.2756 ug/mL

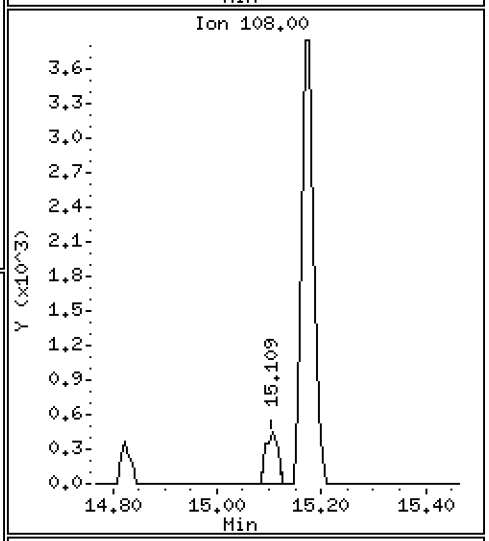


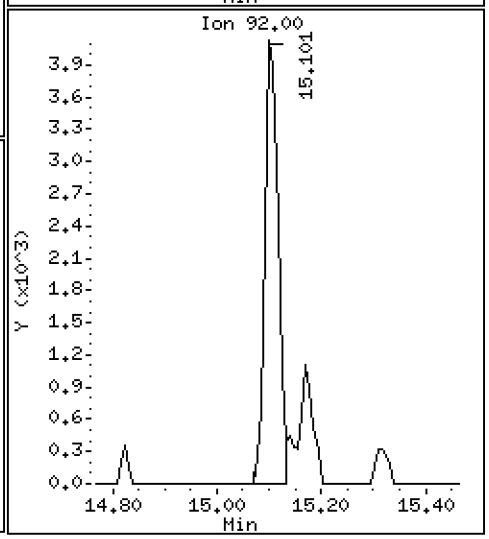












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

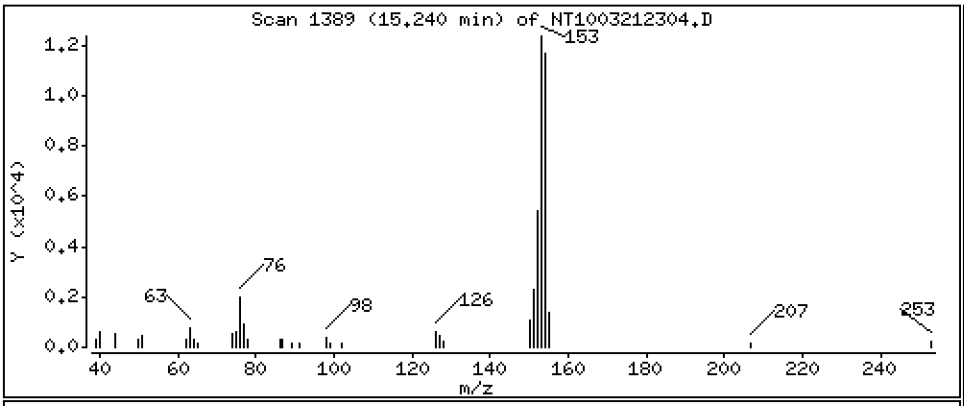
Operator: VTS

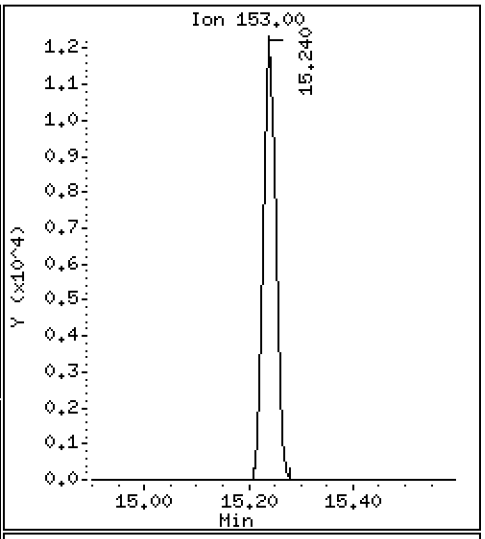
Column phase: ZB-5msi

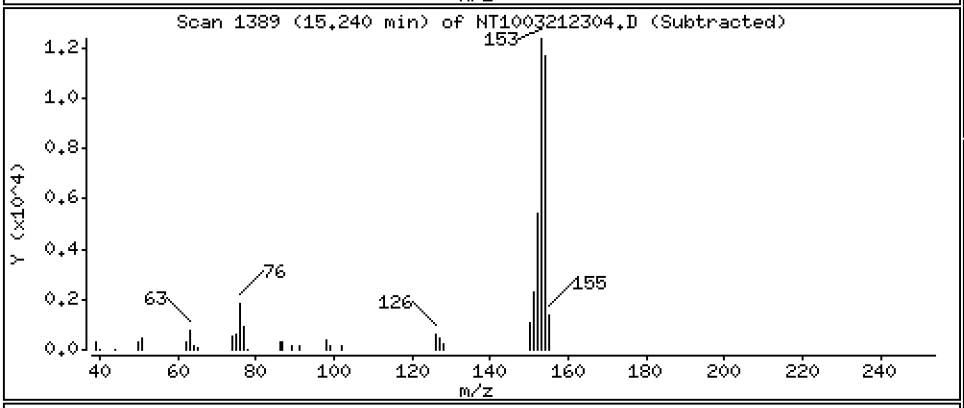
Column diameter: 0.25

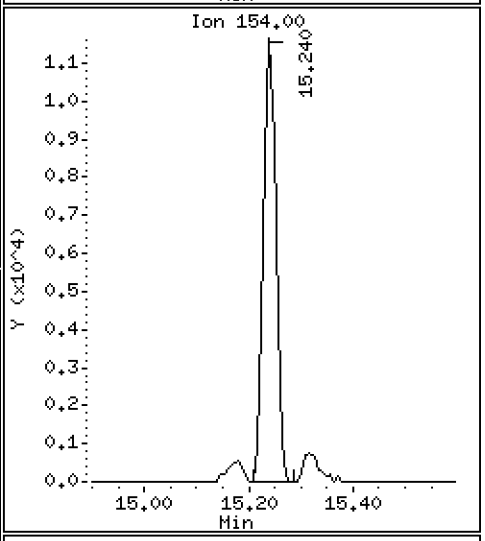
44 Acenaphthene

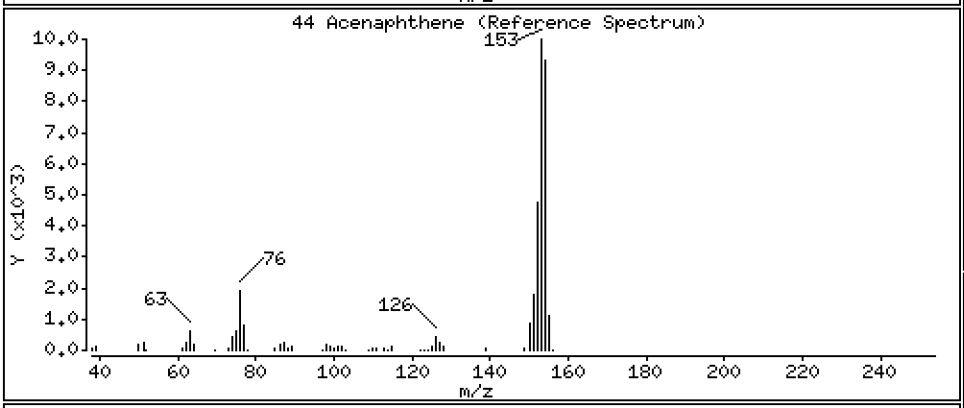
Concentration: 0.2058 ug/mL

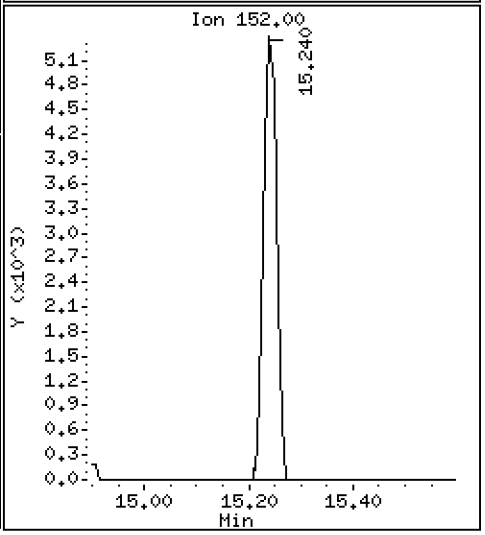


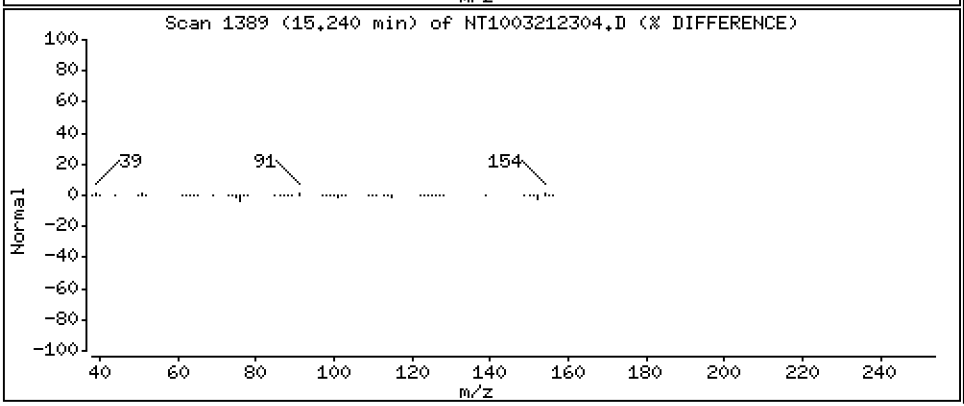












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212304.D

Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

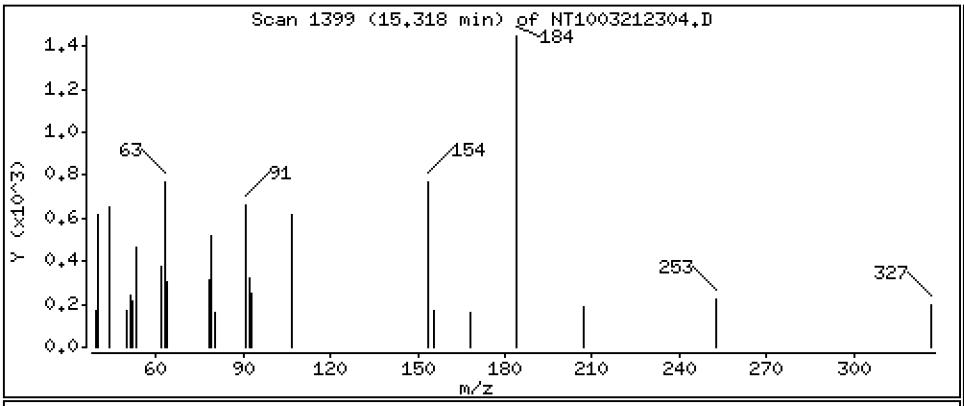
Operator: VTS

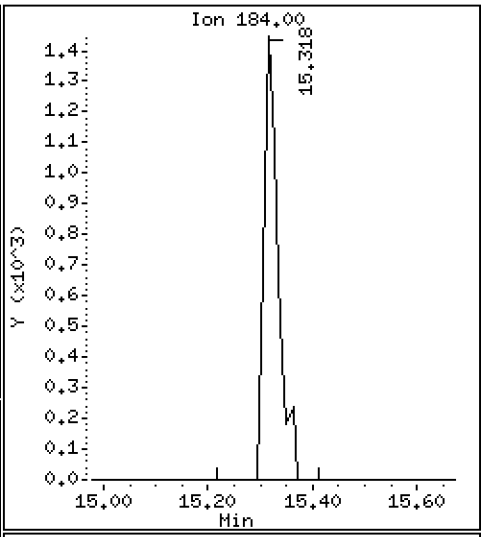
Column phase: ZB-5msi

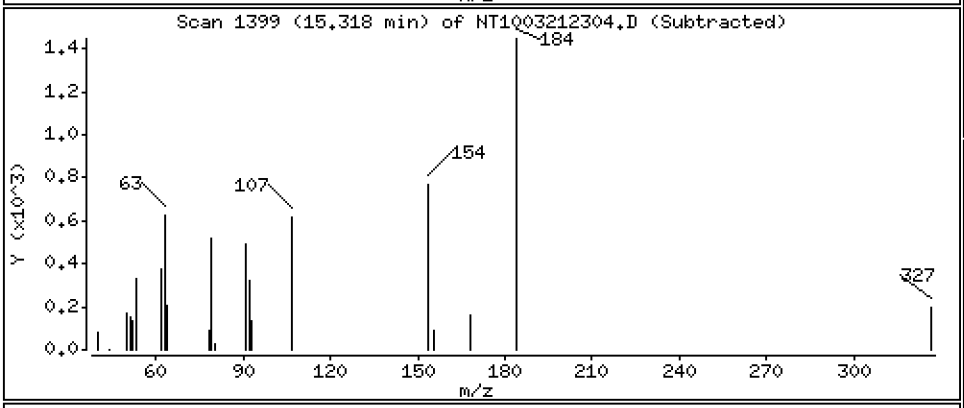
Column diameter: 0.25

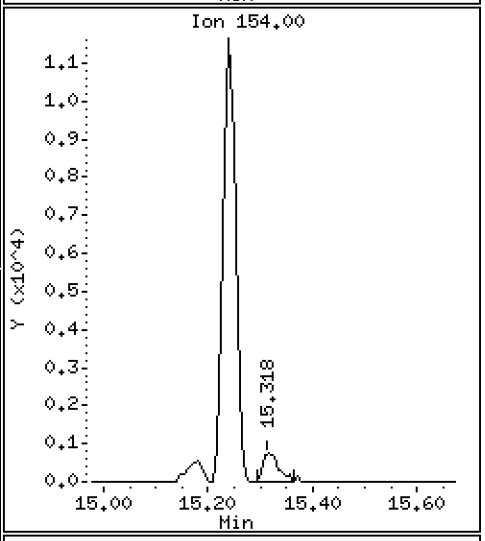
45 2,4-Dinitrophenol

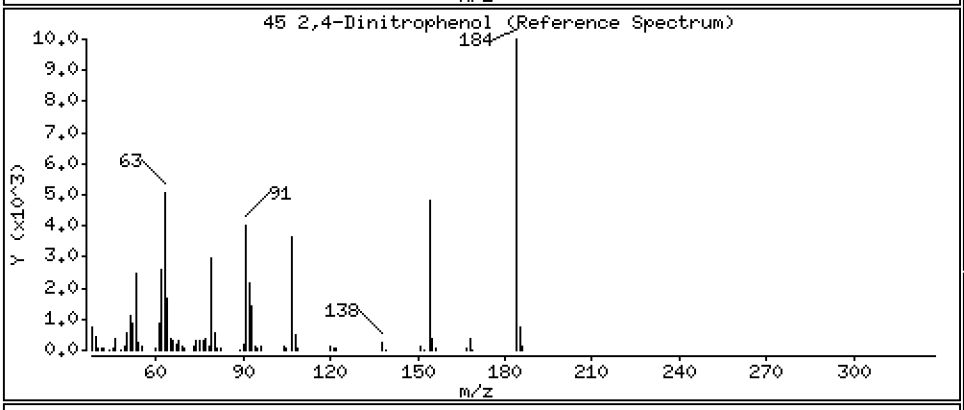
Concentration: 0.2041 ug/mL

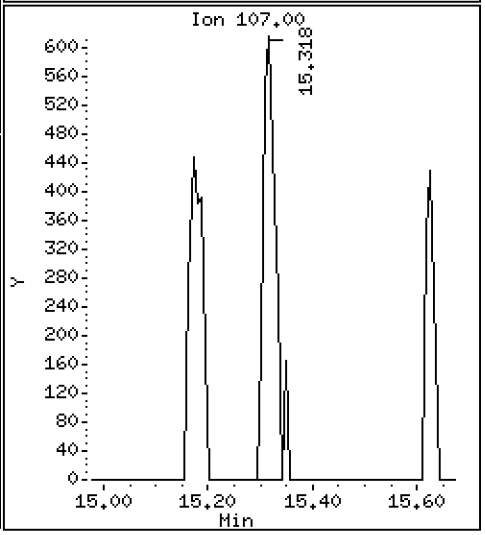


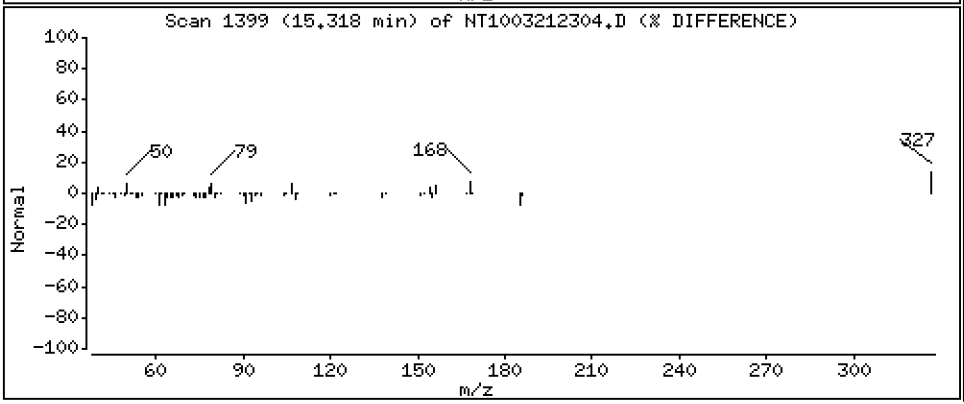












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

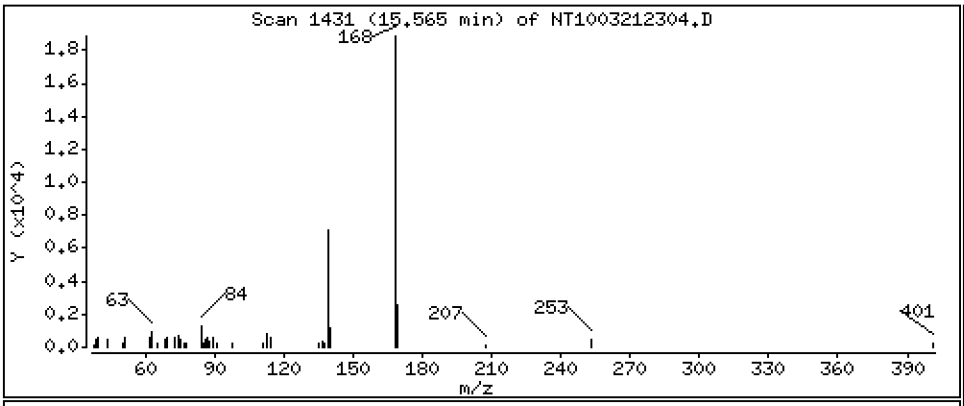
Operator: VTS

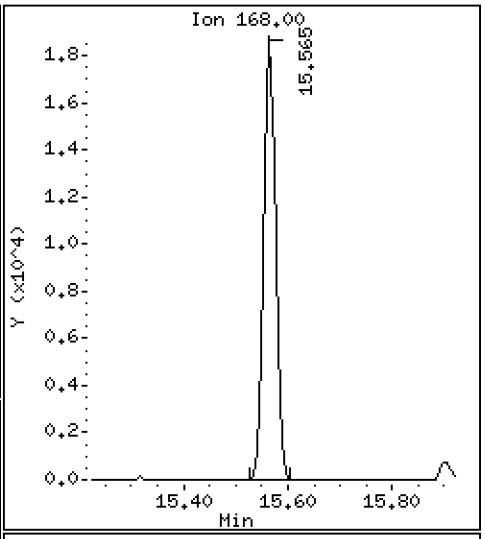
Column phase: ZB-5msi

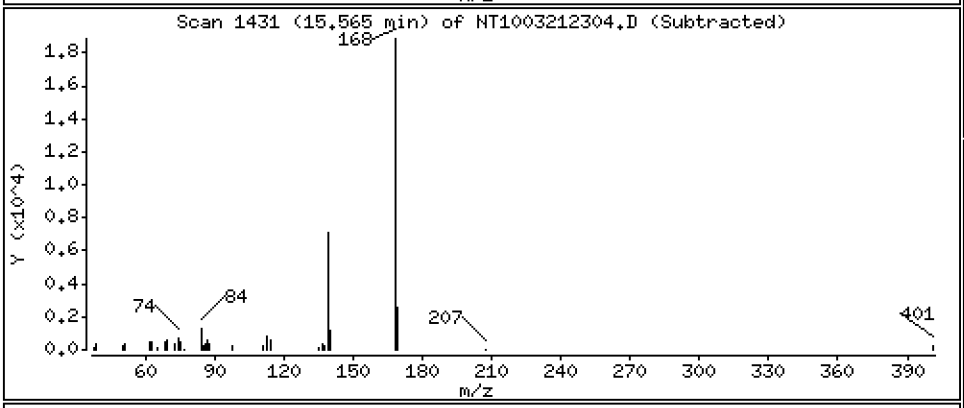
Column diameter: 0.25

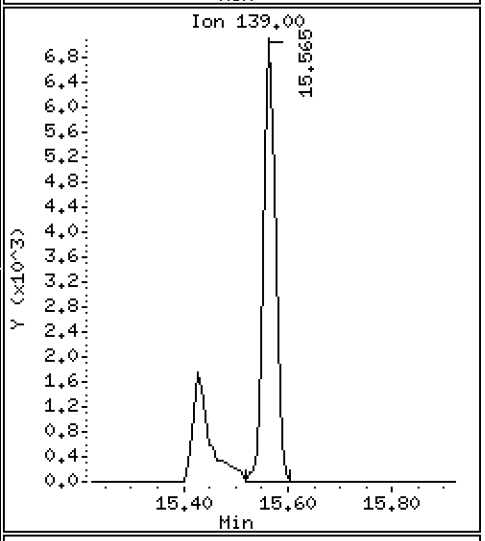
46 Dibenzofuran

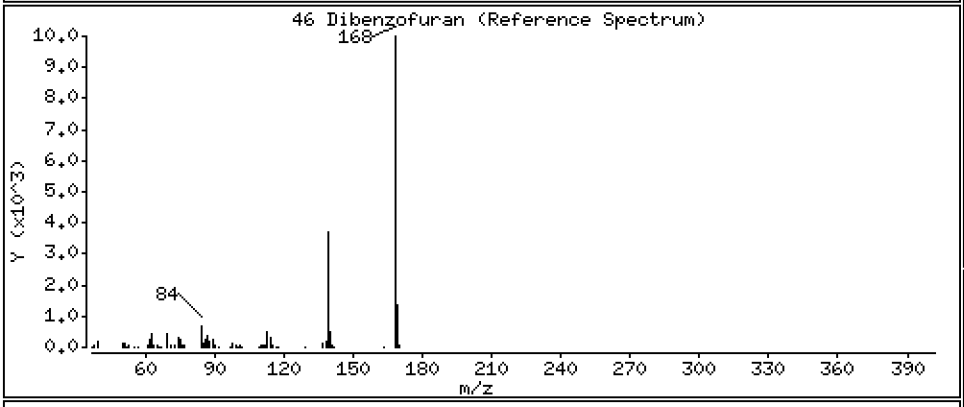
Concentration: 0.2028 ug/mL

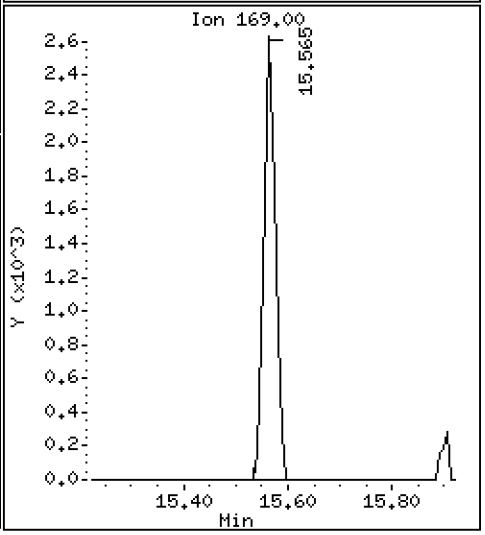


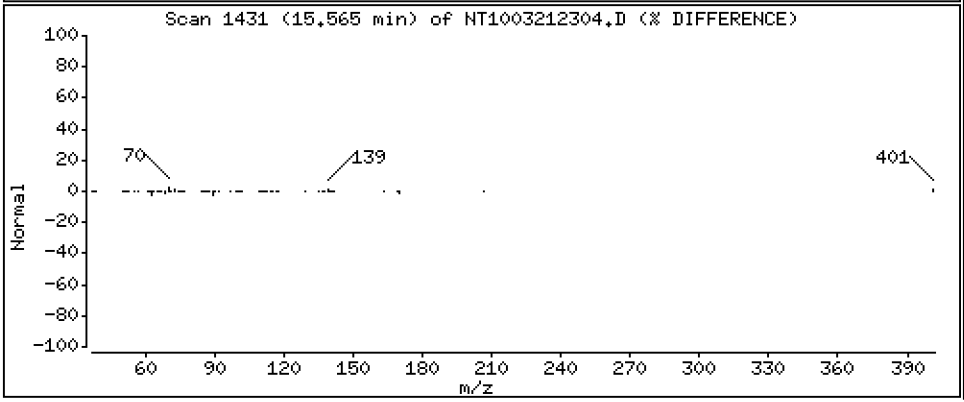












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

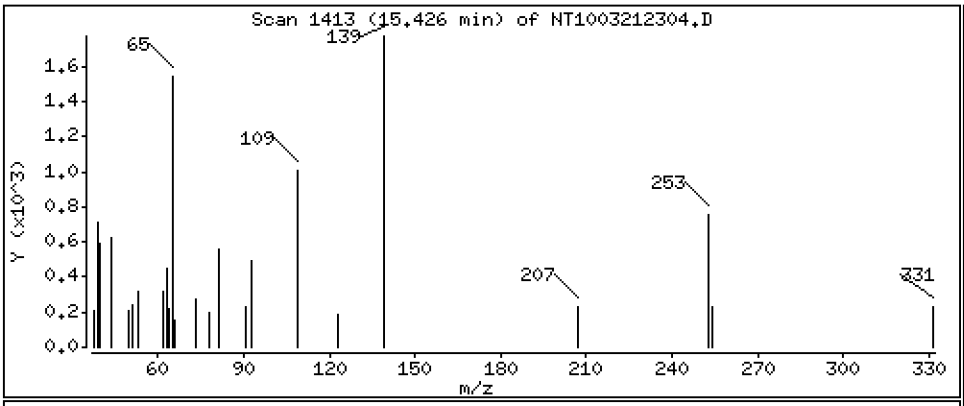
Operator: VTS

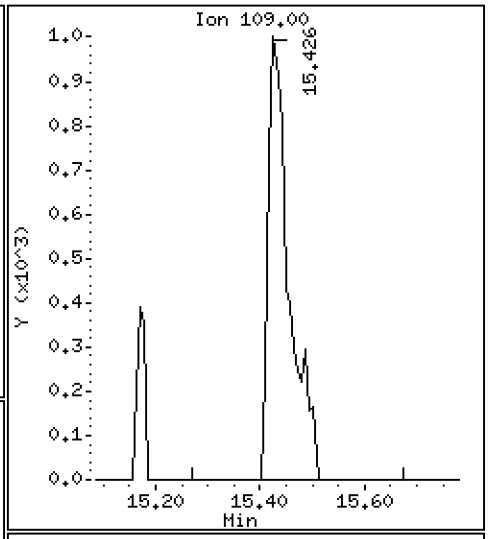
Column phase: ZB-5msi

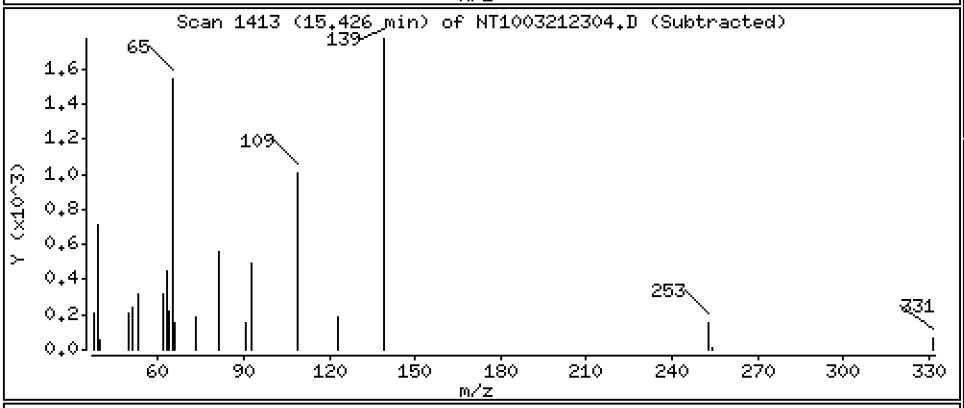
Column diameter: 0.25

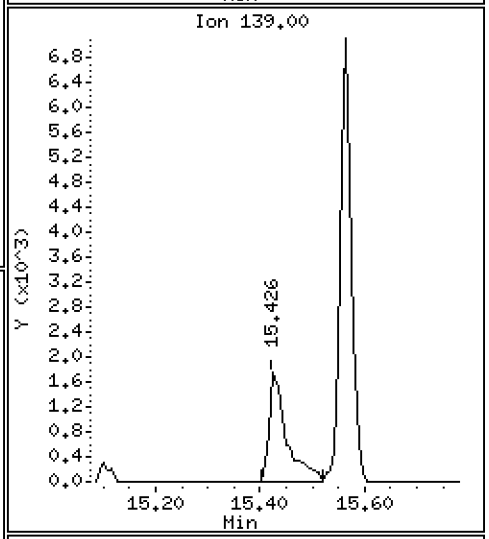
47 4-Nitrophenol

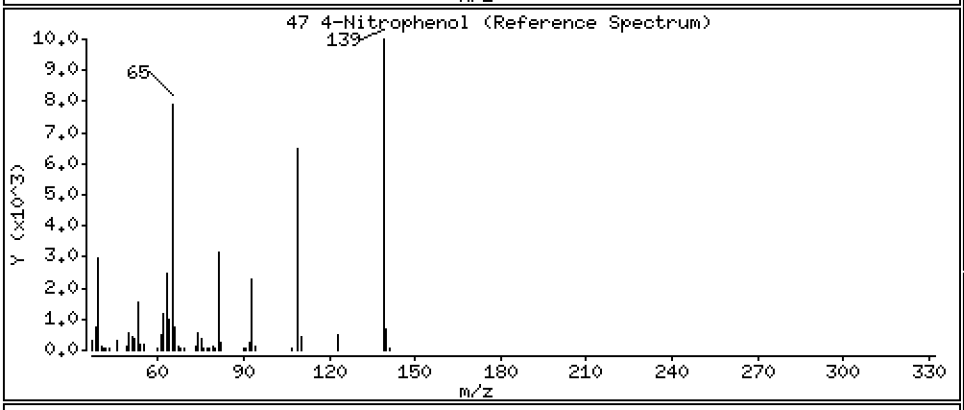
Concentration: 0.1817 ug/mL

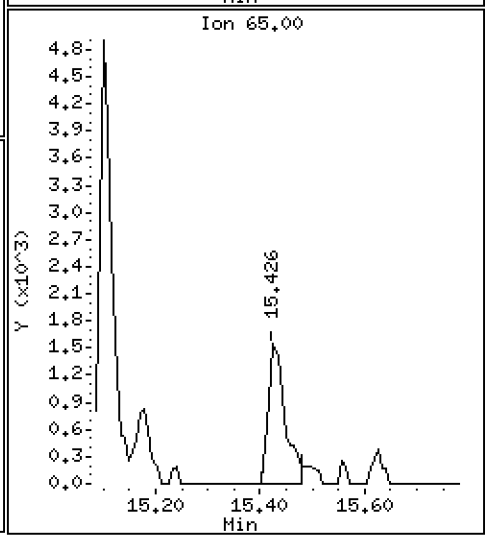


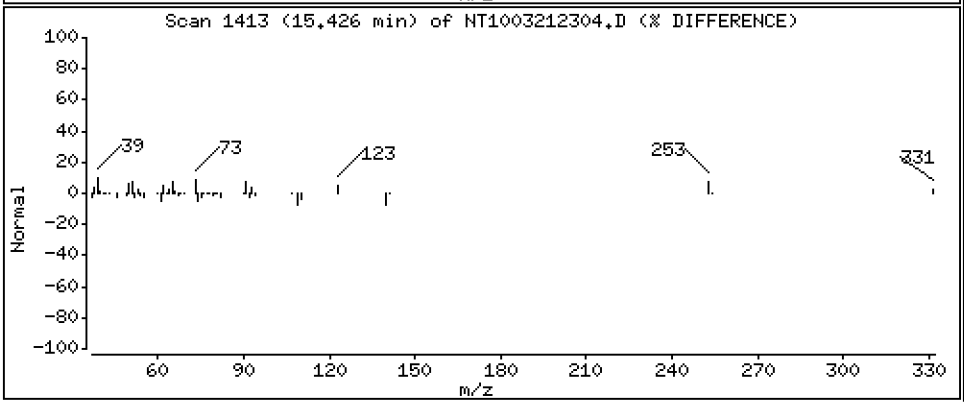












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

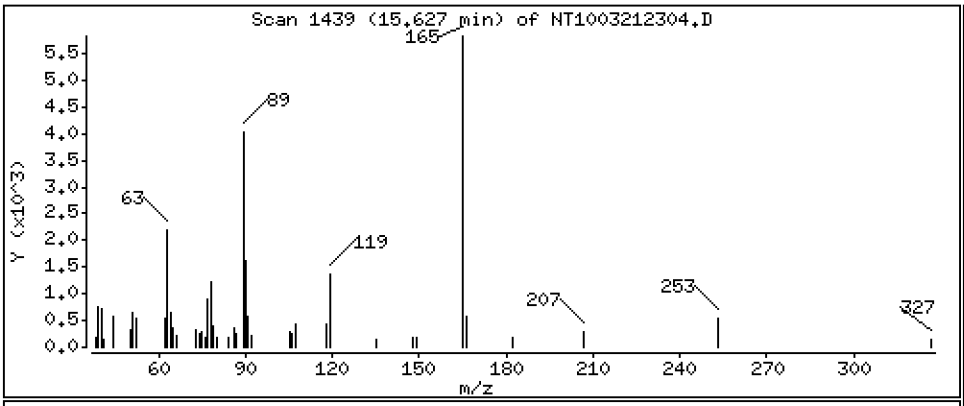
Operator: VTS

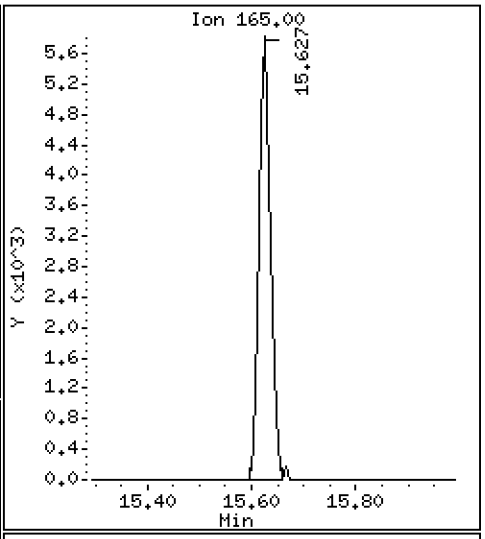
Column phase: ZB-5msi

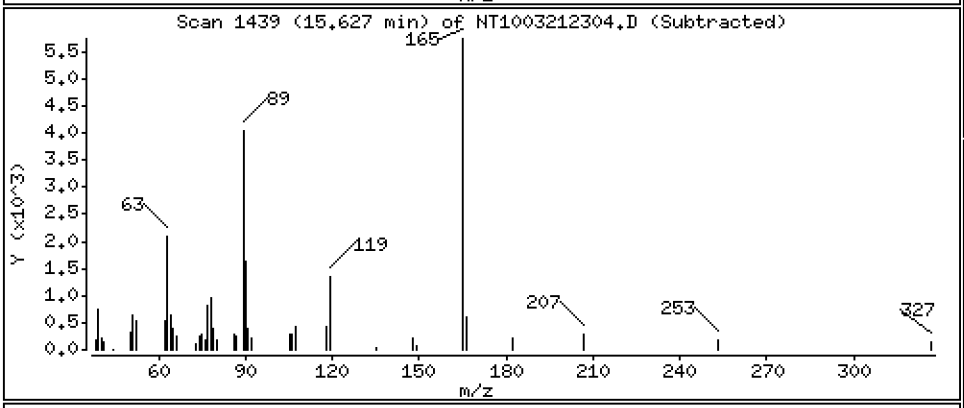
Column diameter: 0.25

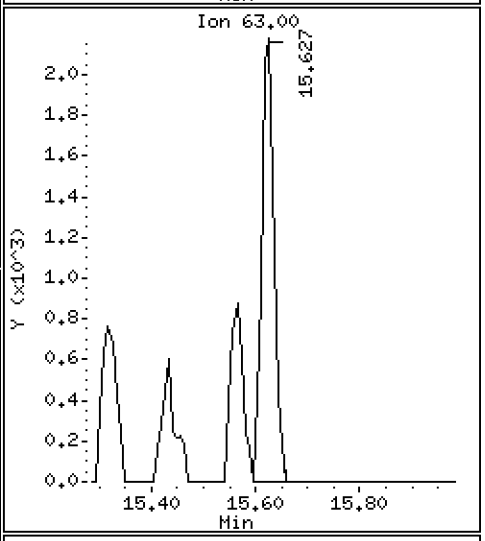
48 2,4-Dinitrotoluene

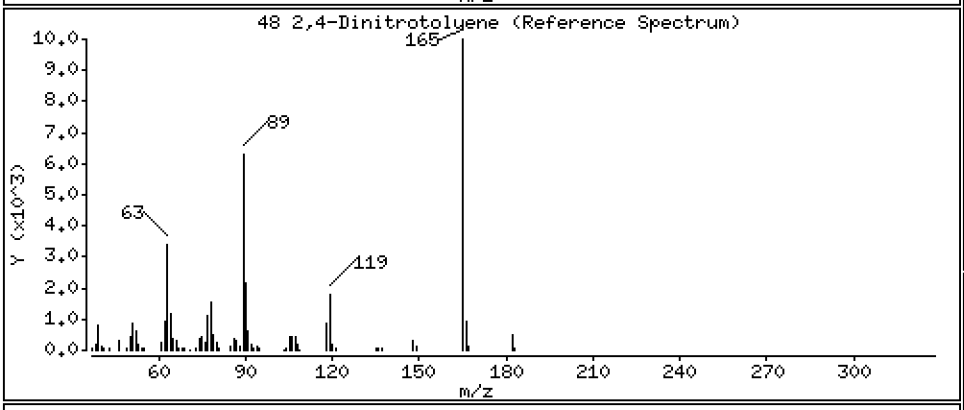
Concentration: 0.2736 ug/mL

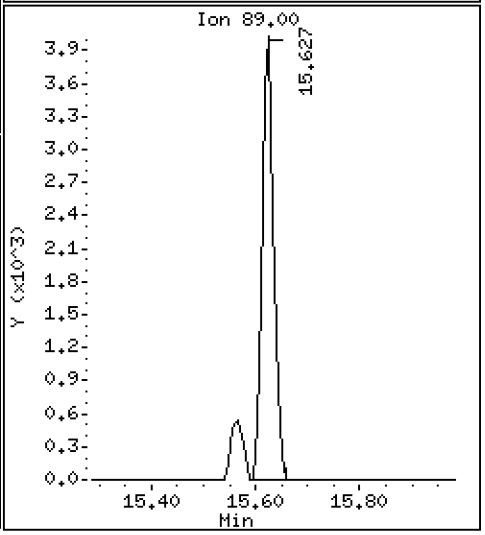


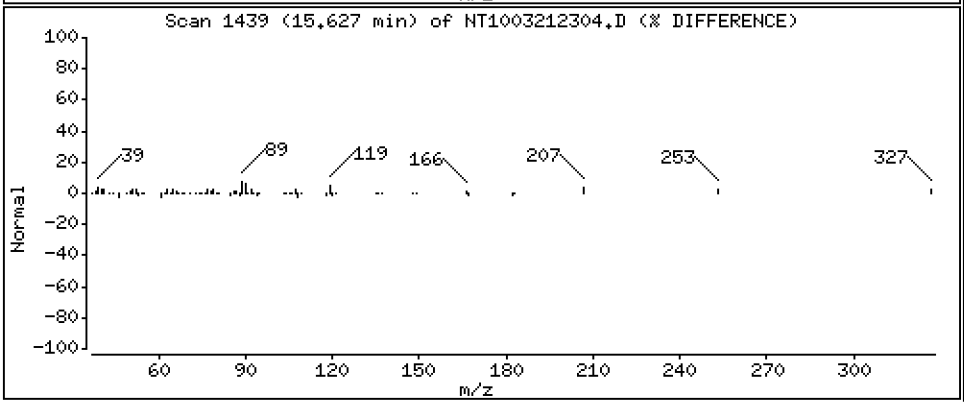












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

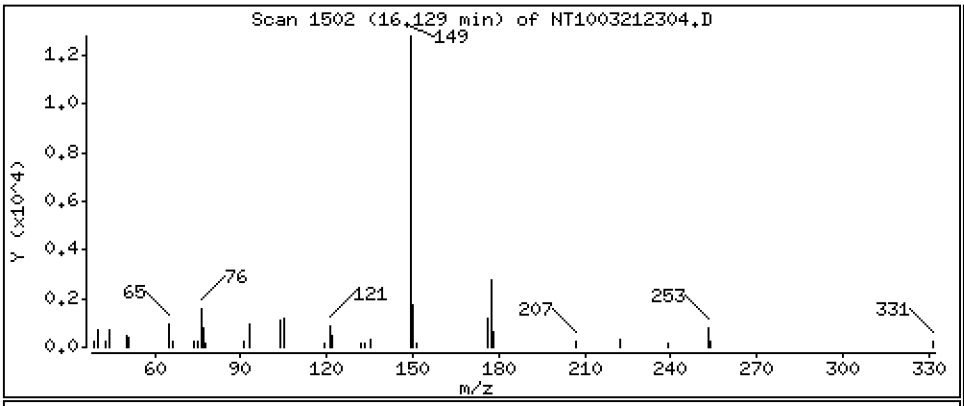
Operator: VTS

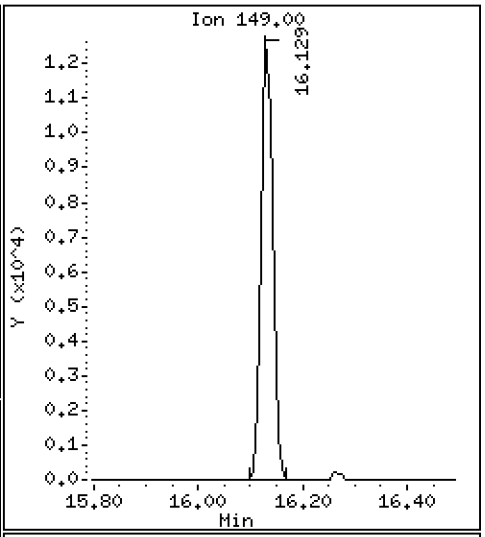
Column phase: ZB-5msi

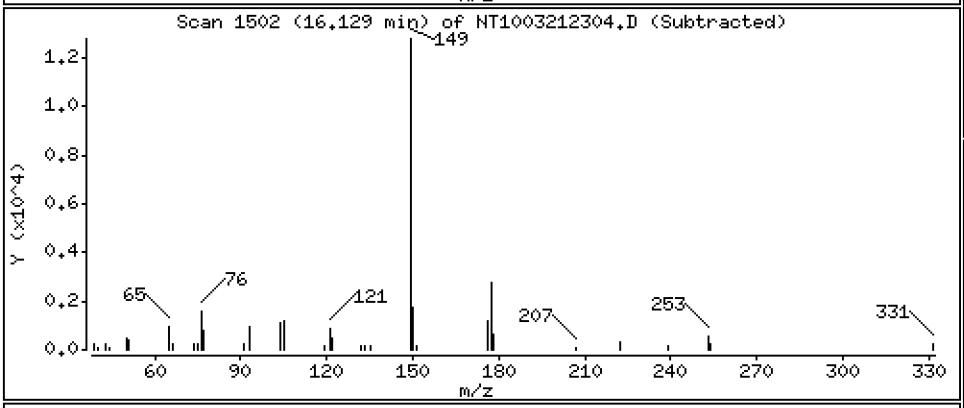
Column diameter: 0.25

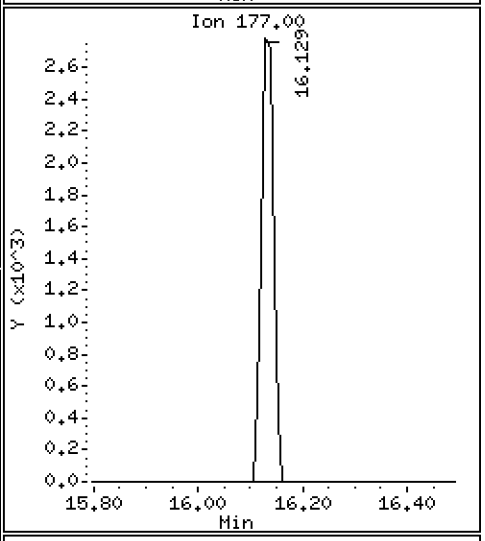
50 Diethylphthalate

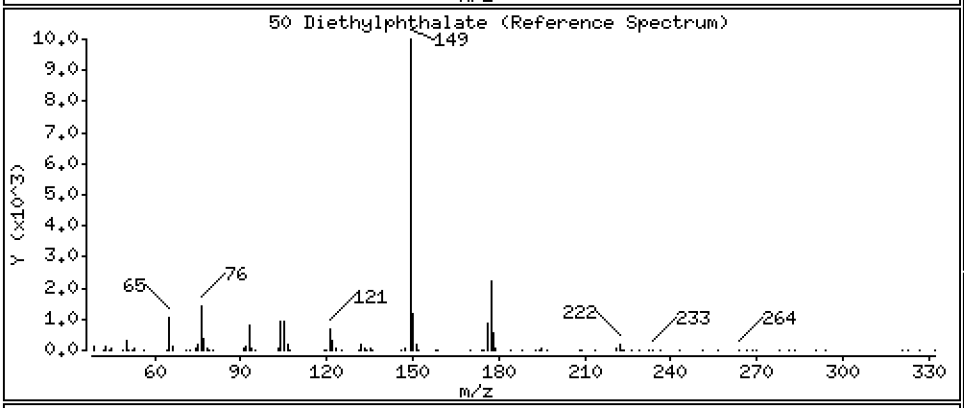
Concentration: 0.1908 ug/mL

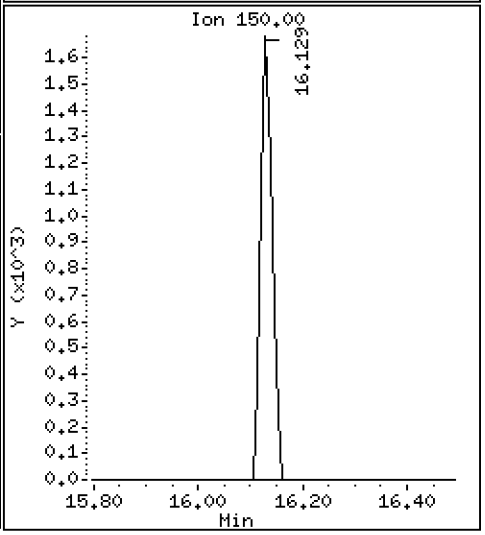


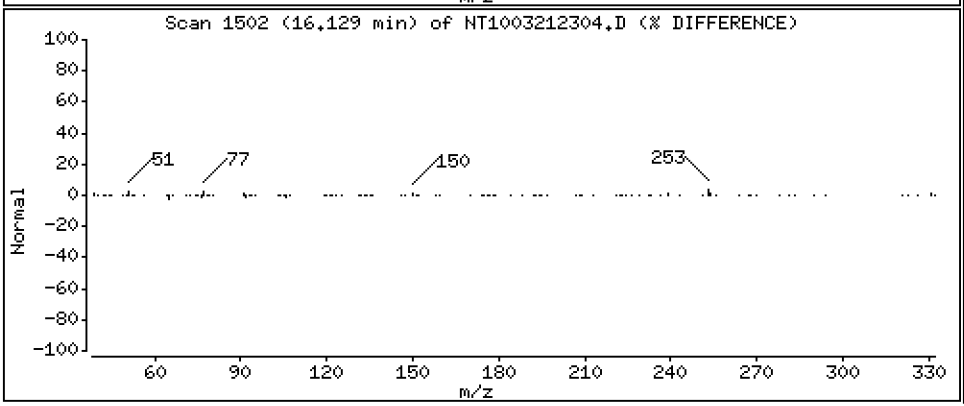












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

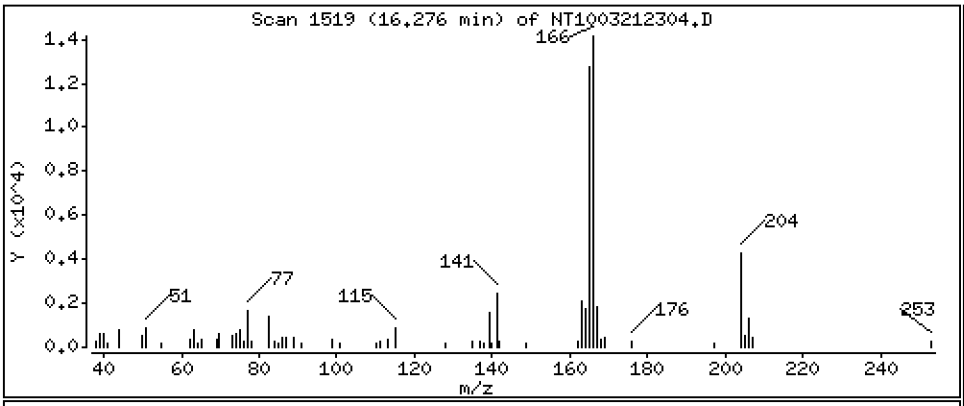
Operator: VTS

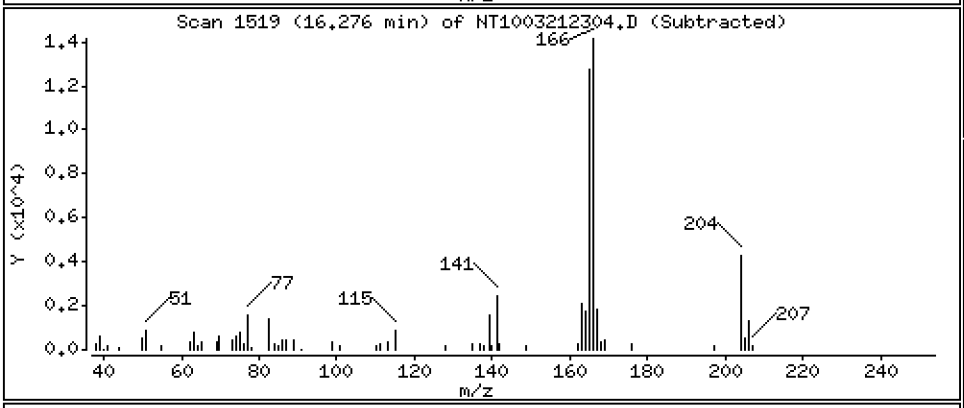
Column phase: ZB-5msi

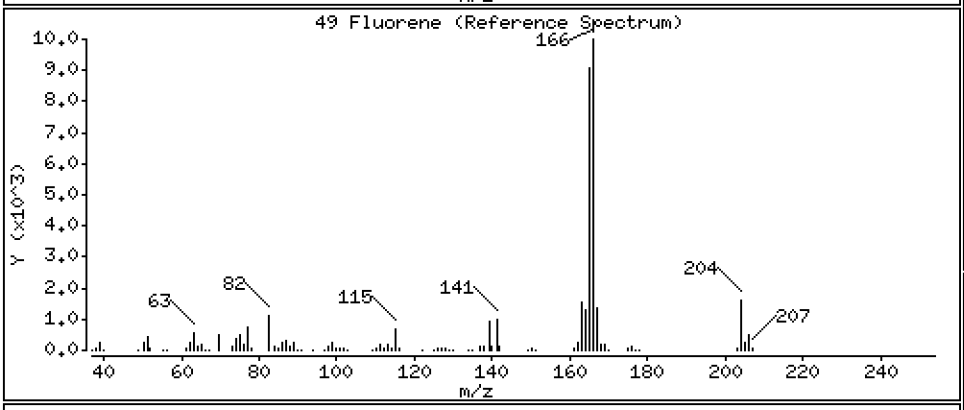
Column diameter: 0.25

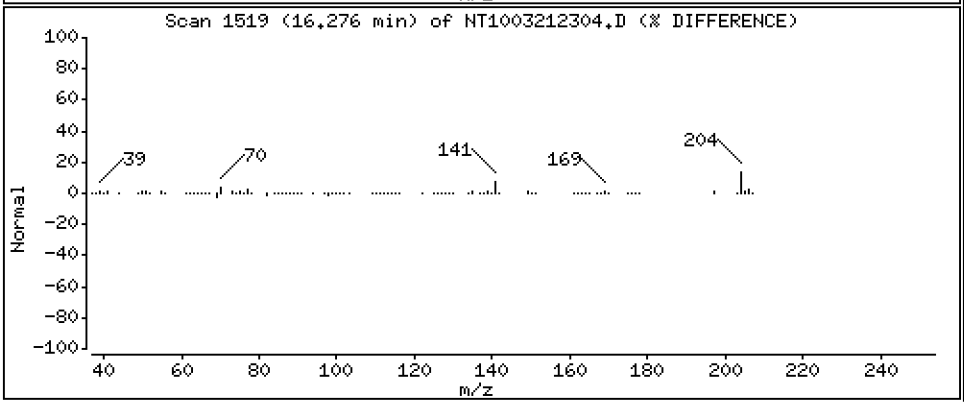
49 Fluorene

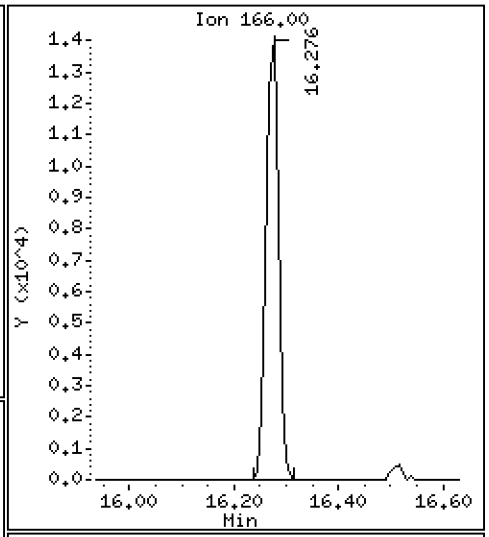
Concentration: 0.2045 ug/mL

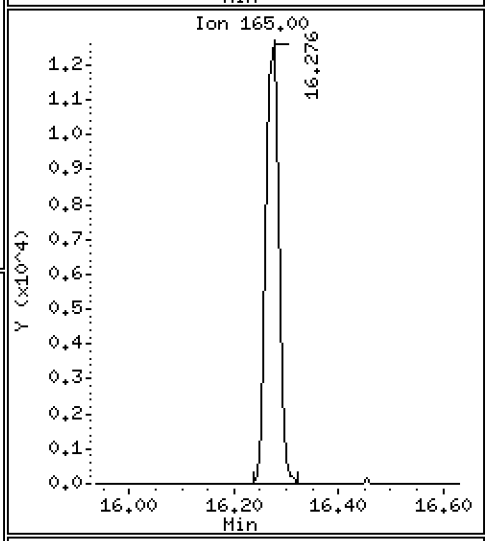


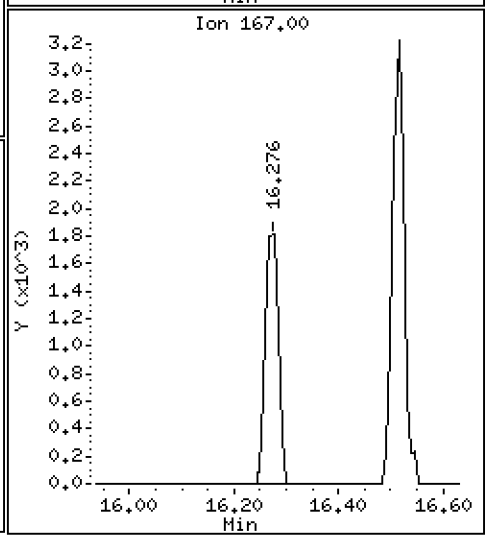












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

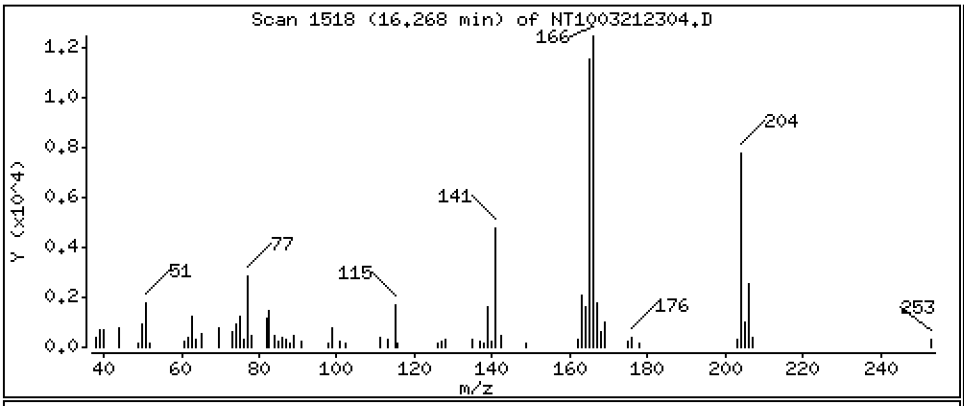
Operator: VTS

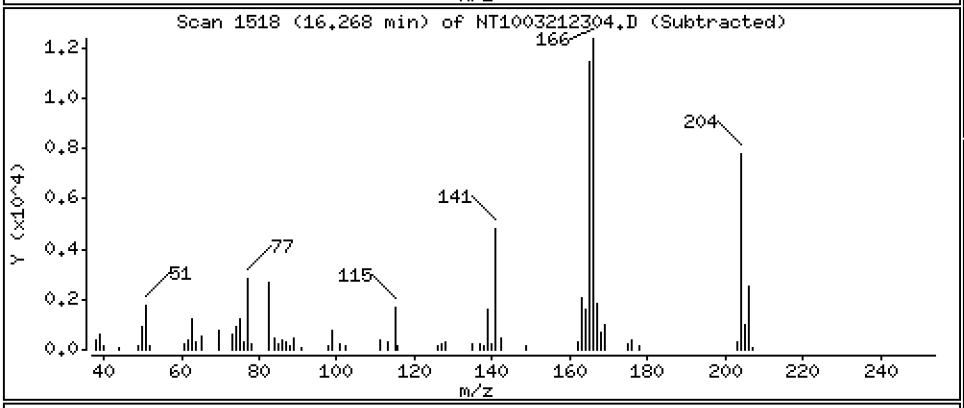
Column phase: ZB-5msi

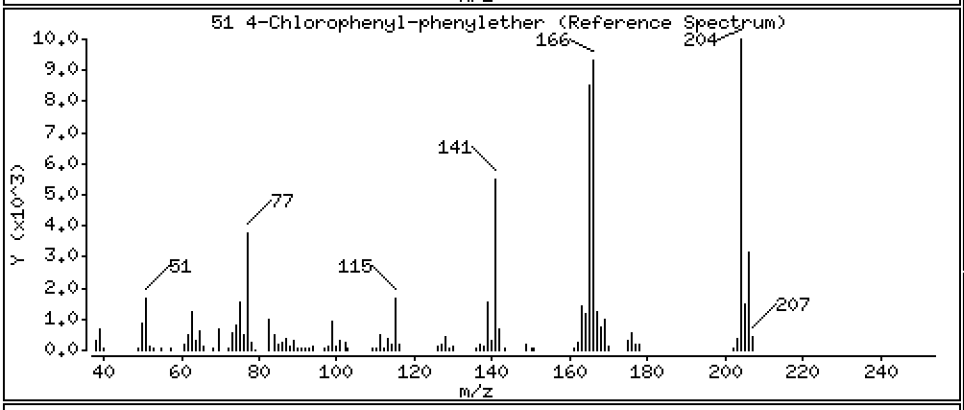
Column diameter: 0.25

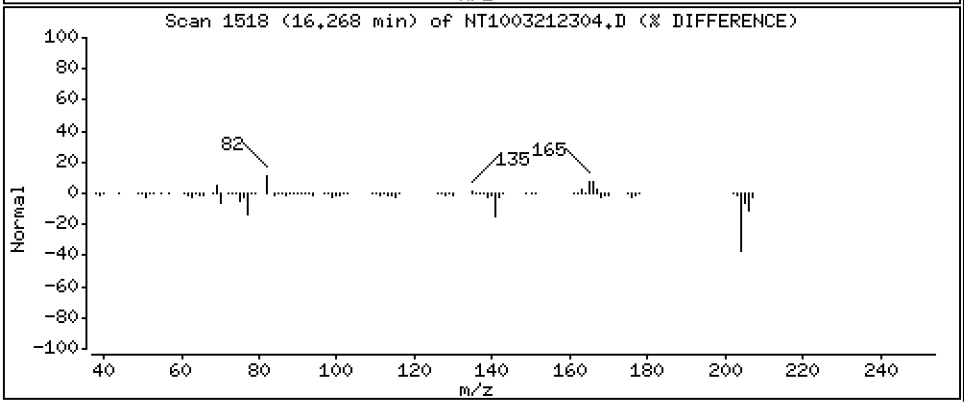
51 4-Chlorophenyl-phenylether

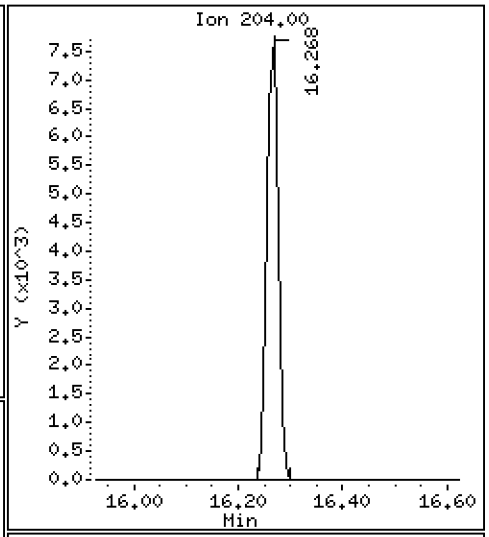
Concentration: 0.2120 ug/mL

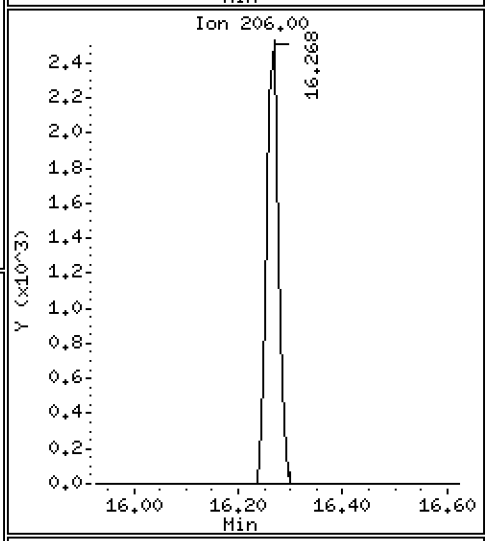


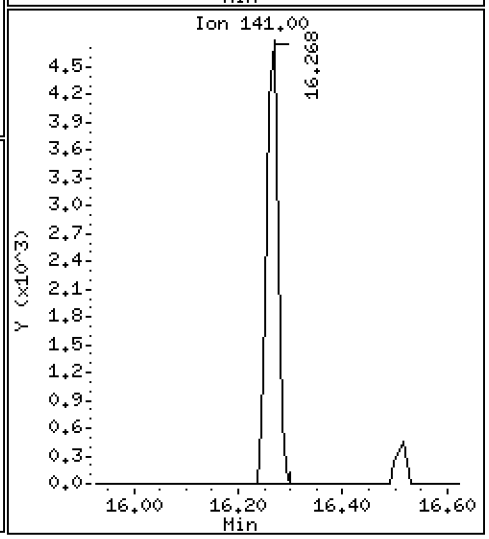












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

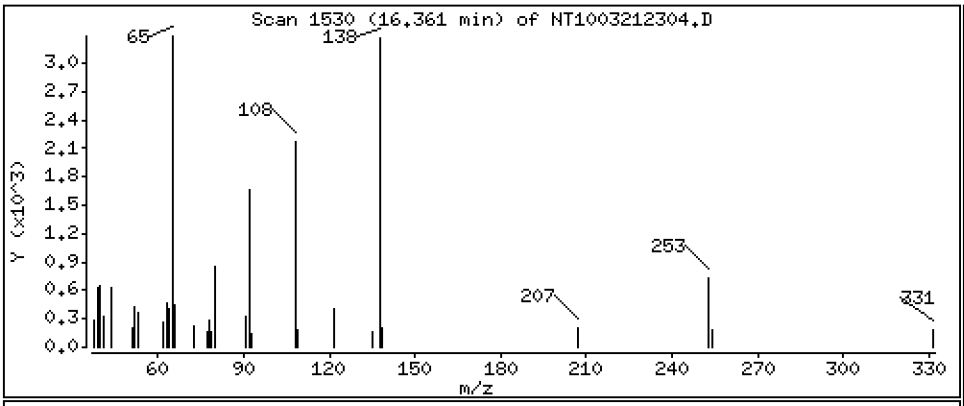
Operator: VTS

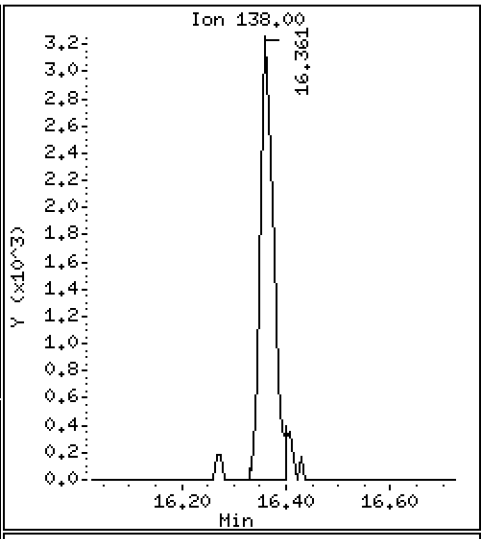
Column phase: ZB-5msi

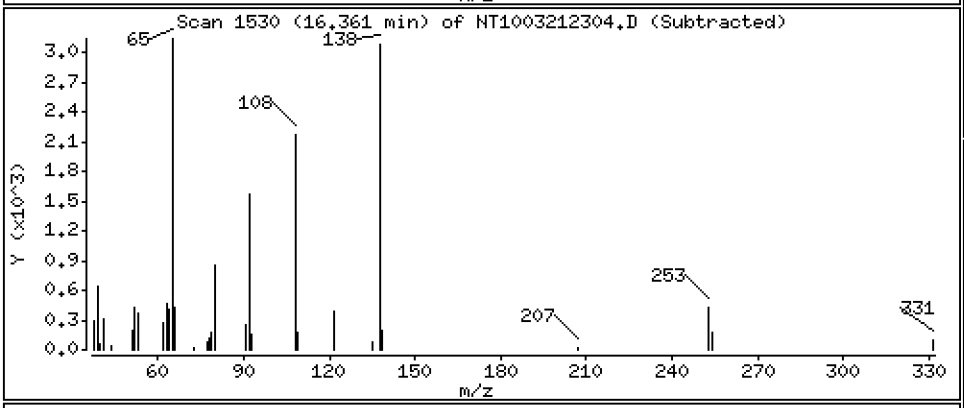
Column diameter: 0.25

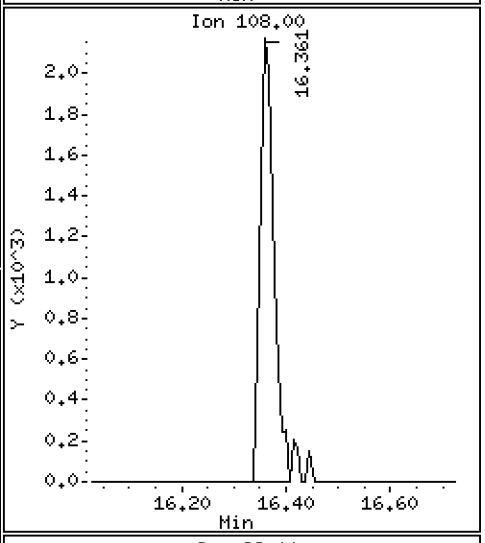
52 4-Nitroaniline

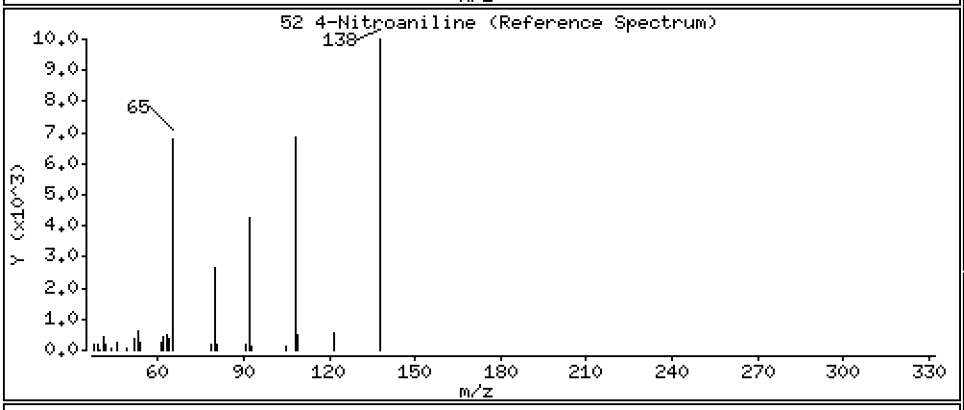
Concentration: 0.2611 ug/mL

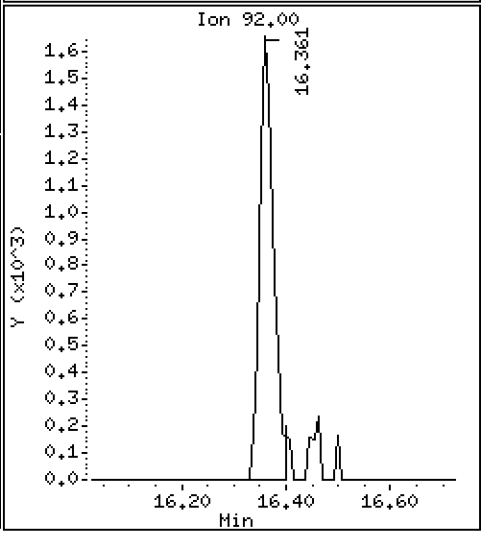


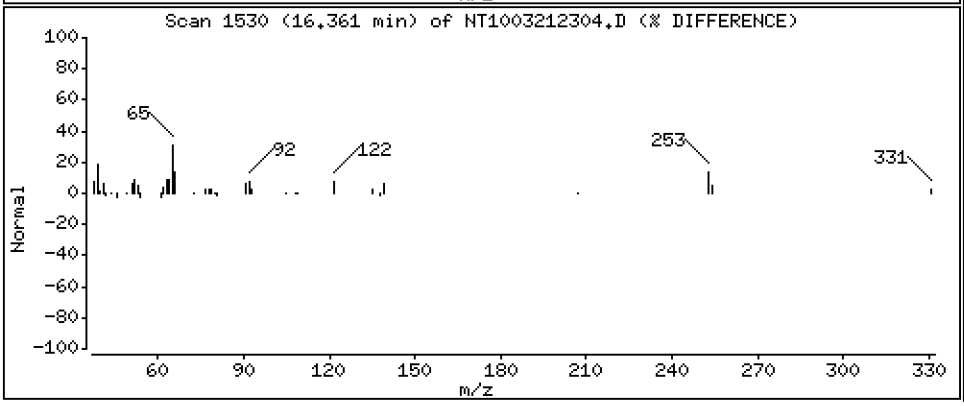












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

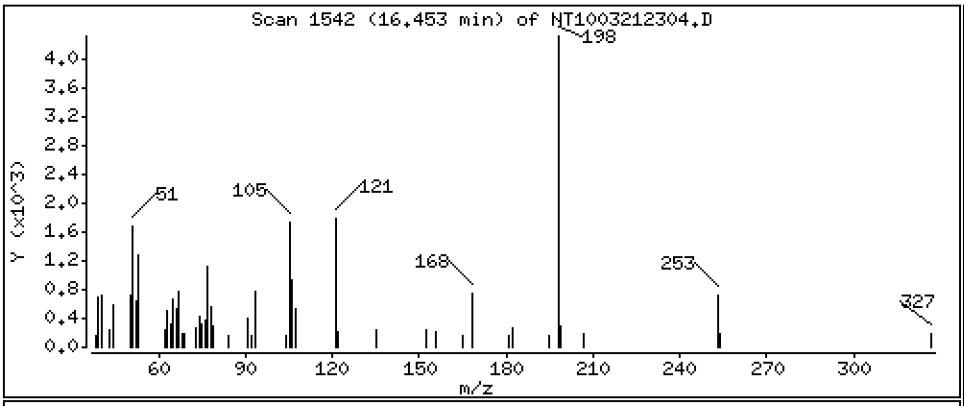
Operator: VTS

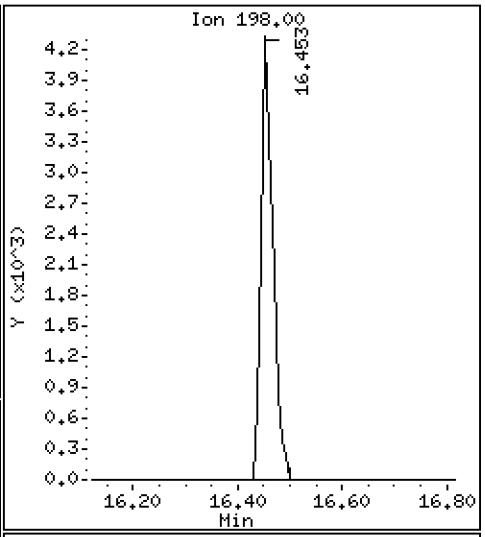
Column phase: ZB-5msi

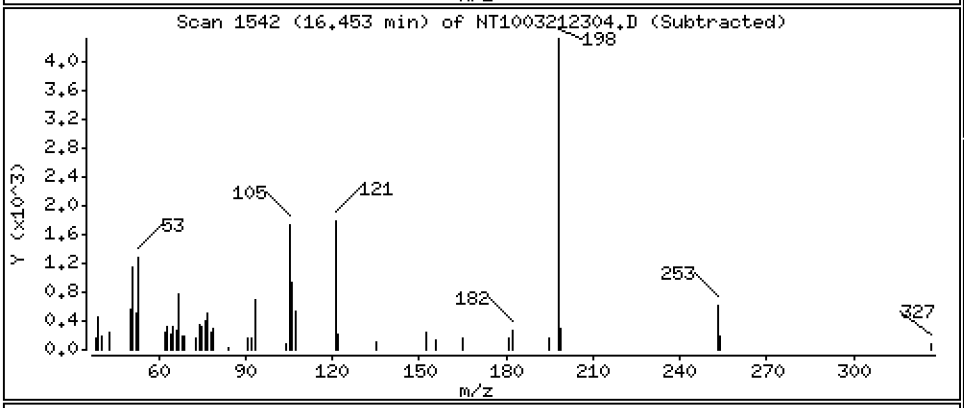
Column diameter: 0.25

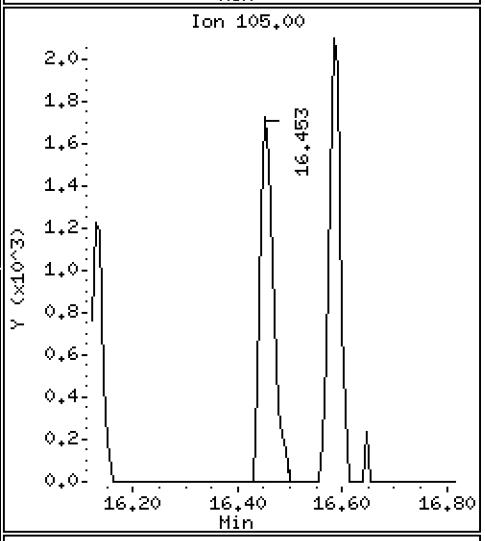
53 4,6-Dinitro-2-methylphenol

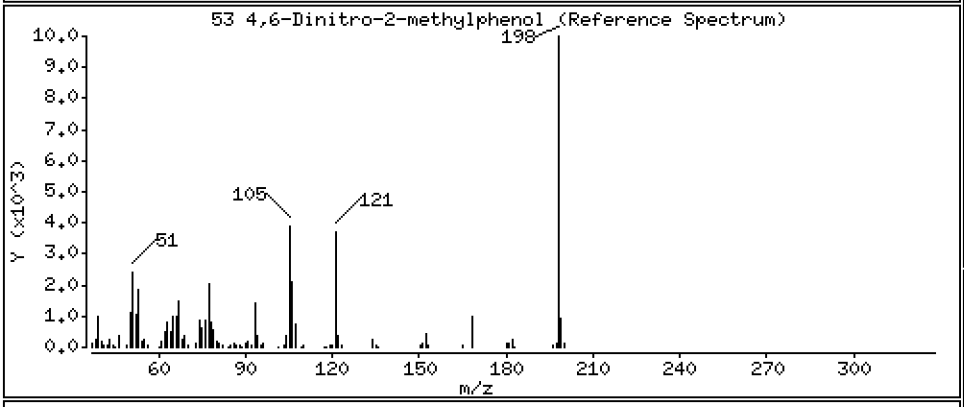
Concentration: 0.3915 ug/mL

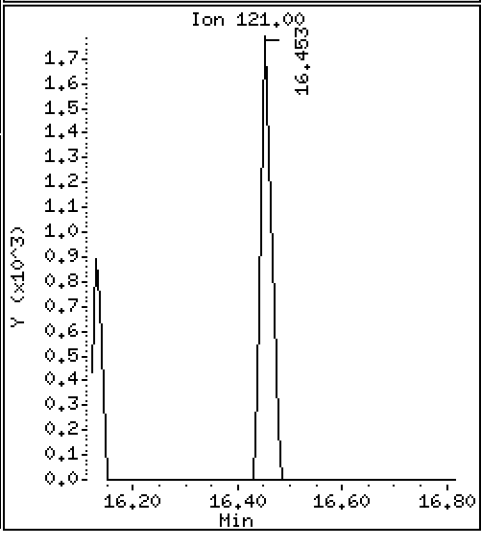


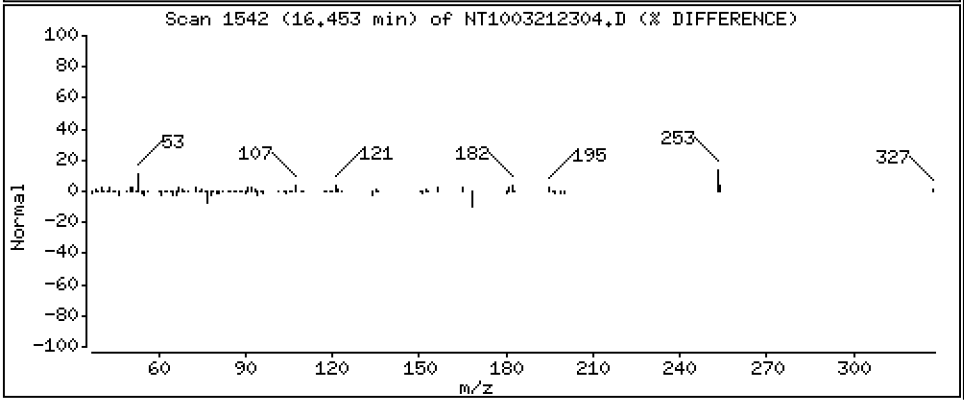












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

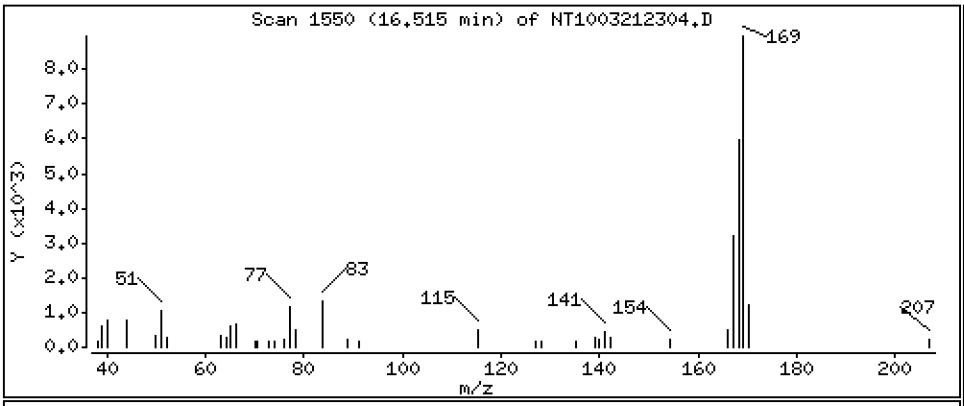
Operator: VTS

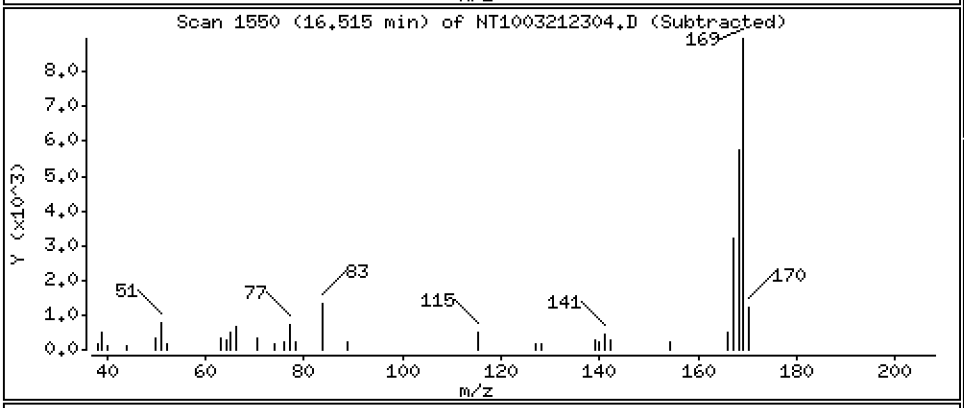
Column phase: ZB-5msi

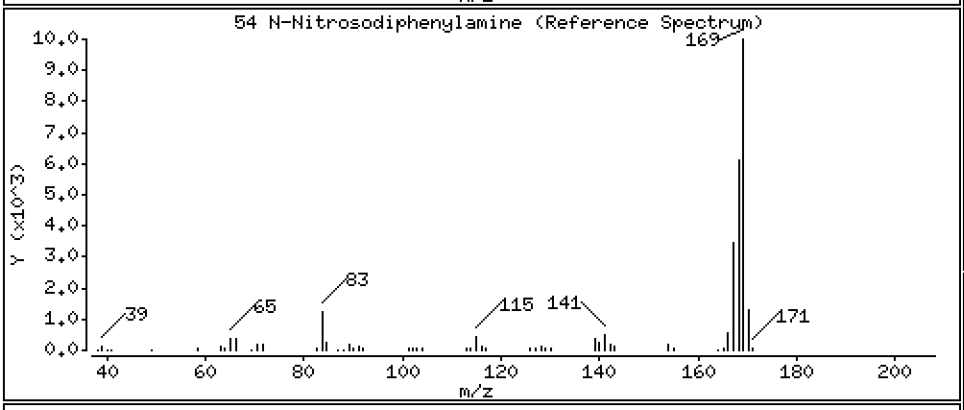
Column diameter: 0.25

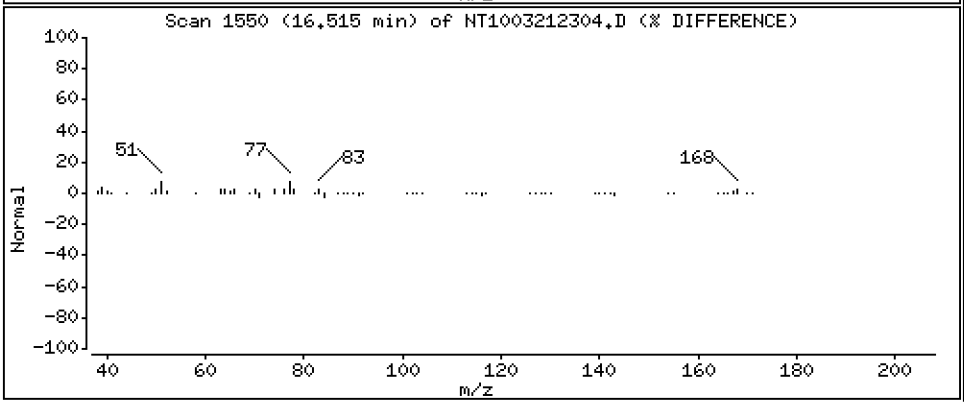
54 N-Nitrosodiphenylamine

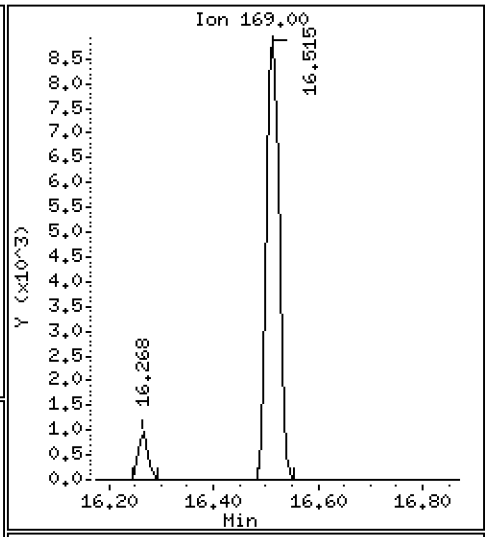
Concentration: 0.1931 ug/mL

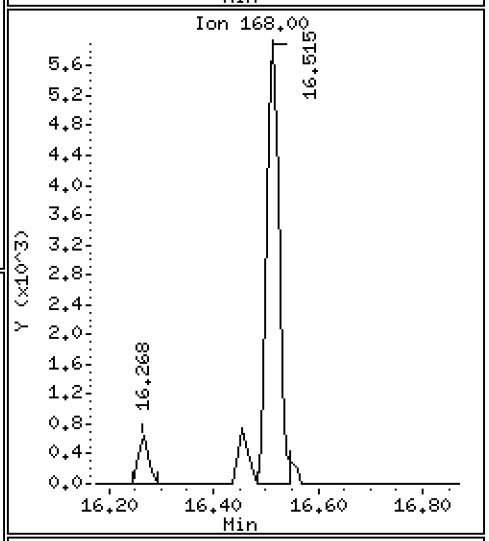


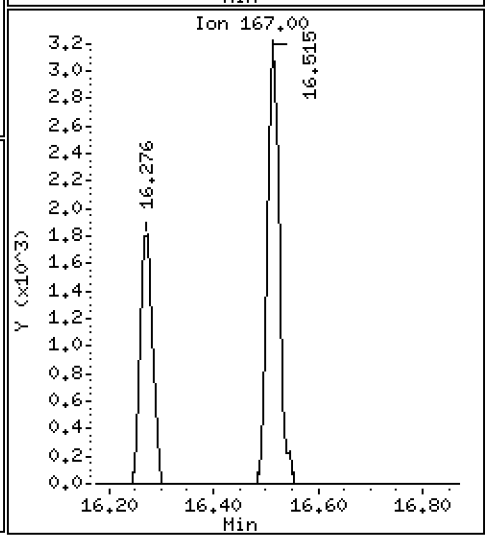












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

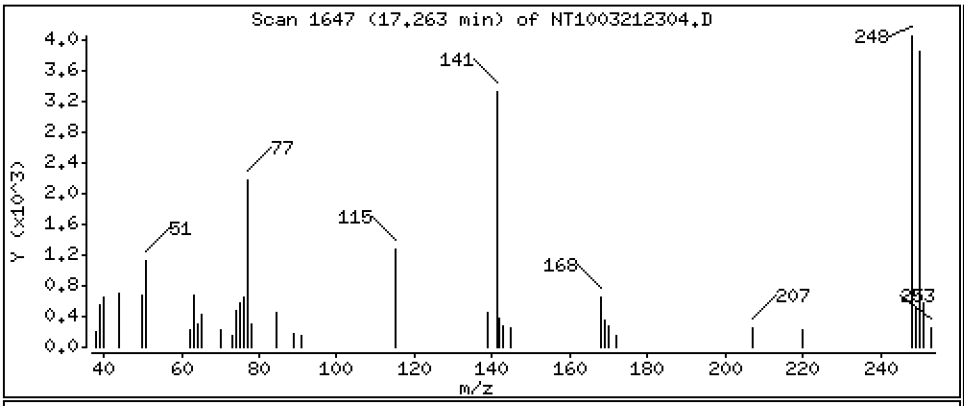
Operator: VTS

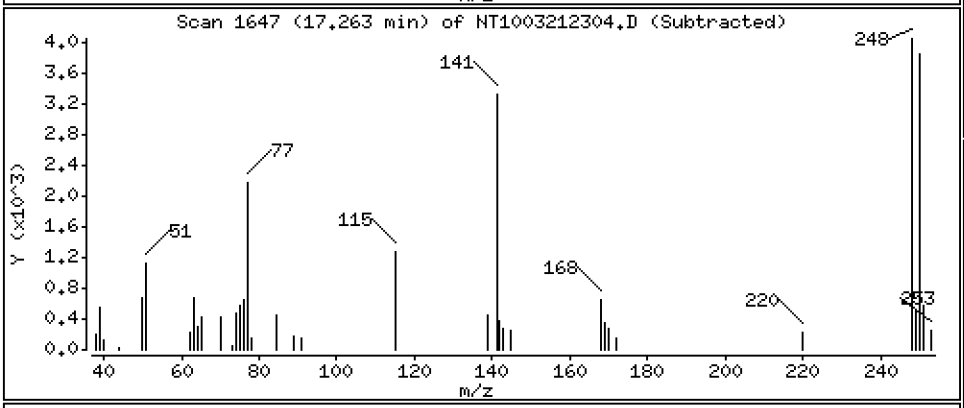
Column phase: ZB-5msi

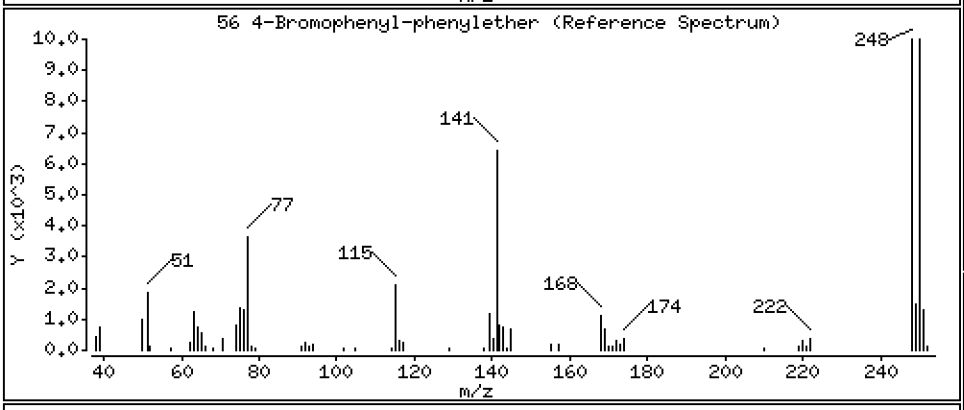
Column diameter: 0.25

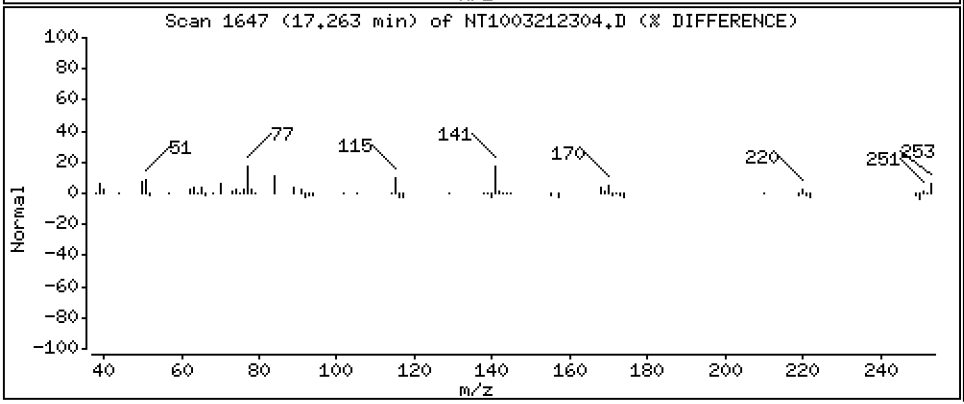
56 4-Bromophenyl-phenylether

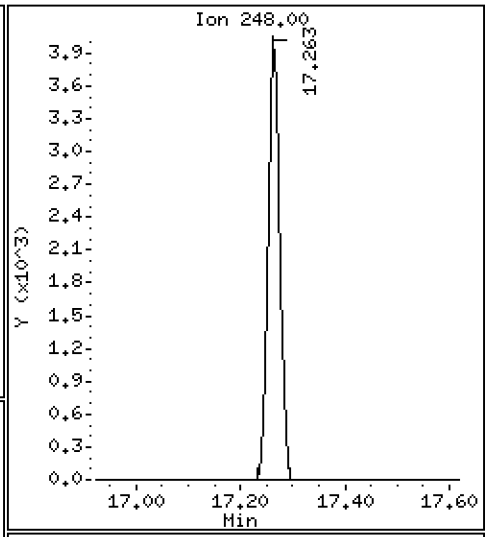
Concentration: 0.2029 ug/mL

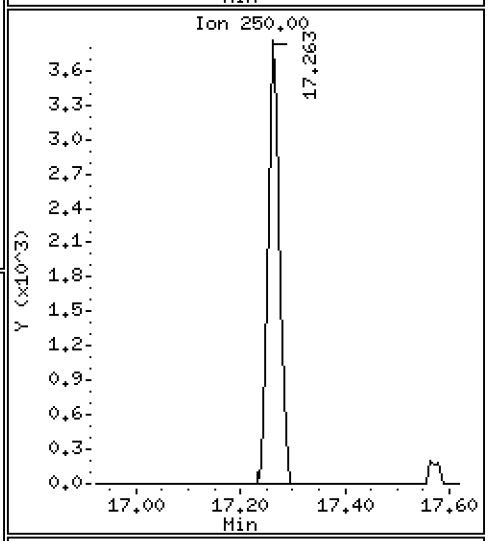


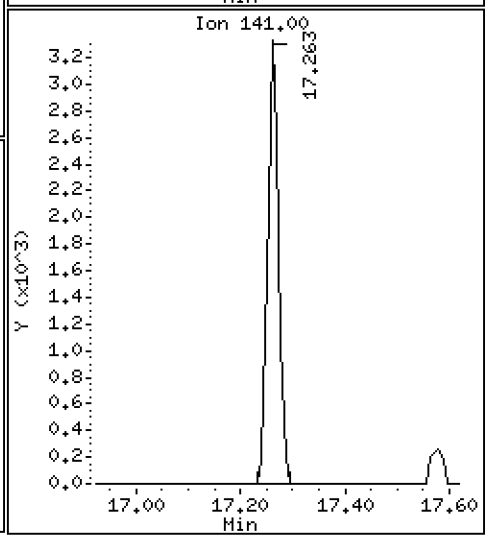












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

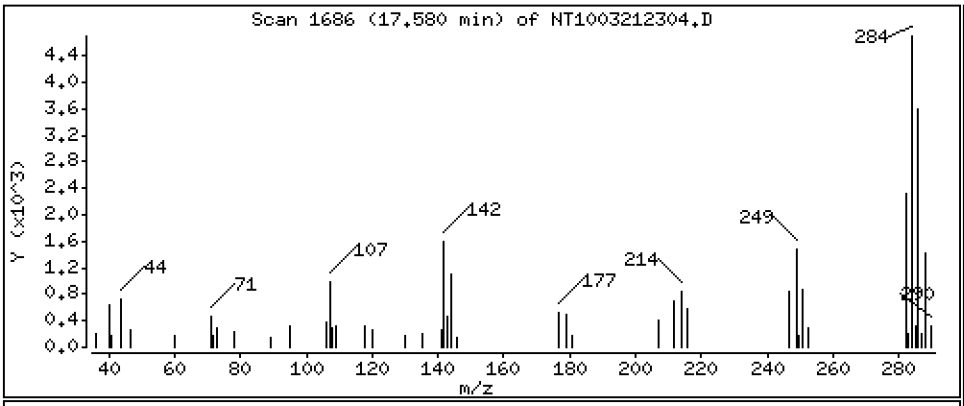
Operator: VTS

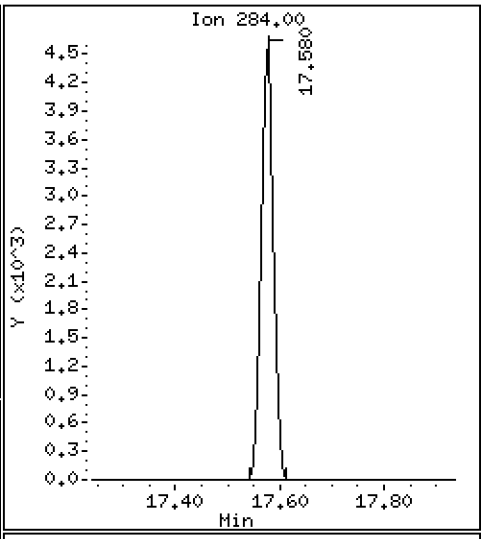
Column phase: ZB-5msi

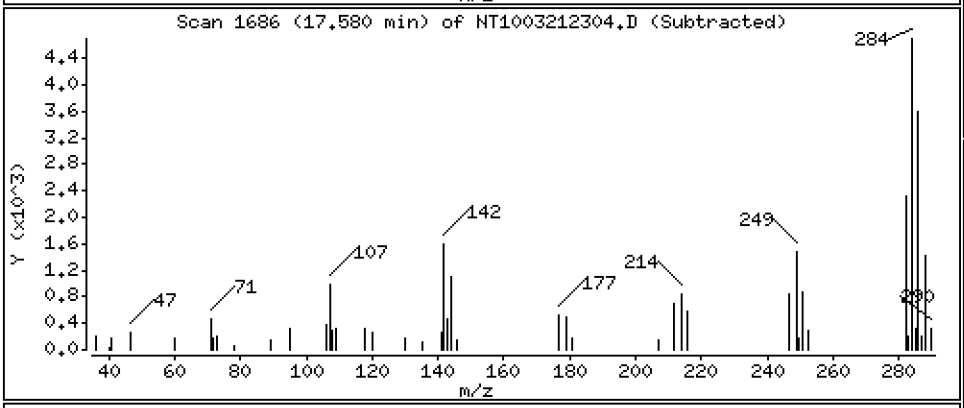
Column diameter: 0.25

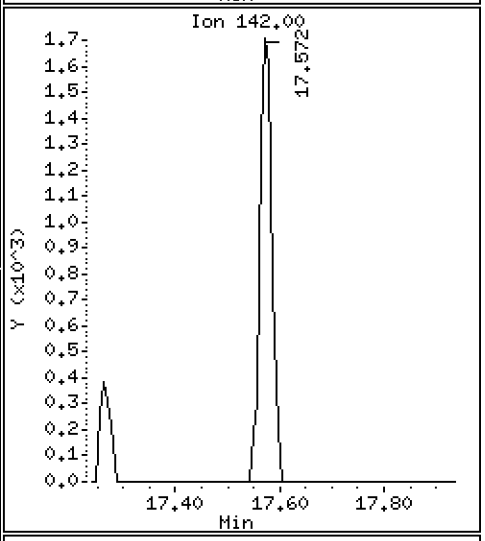
57 Hexachlorobenzene

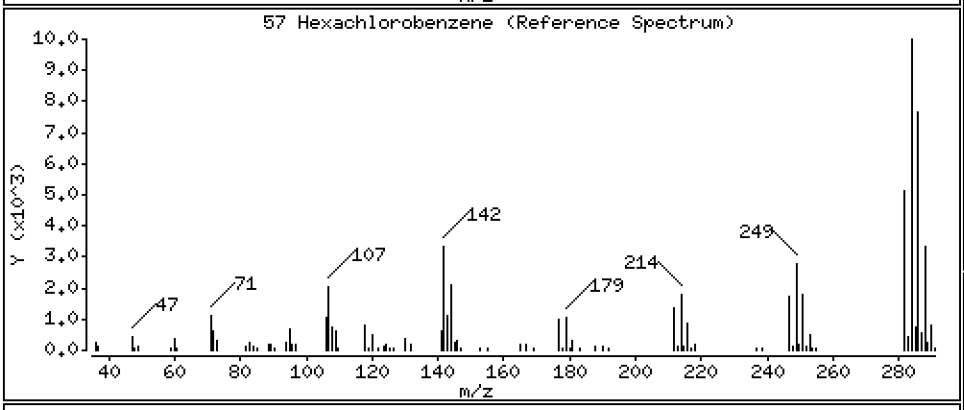
Concentration: 0.2308 ug/mL

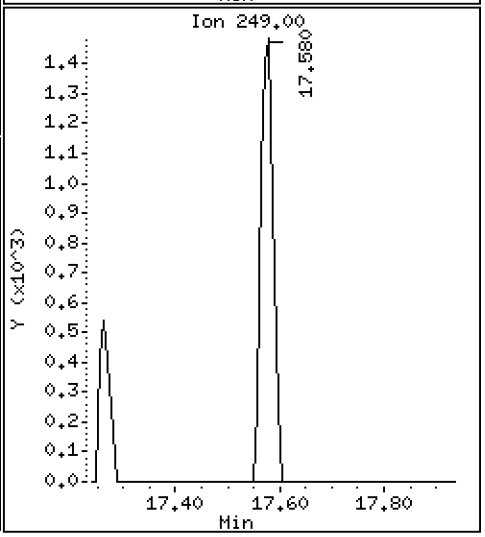


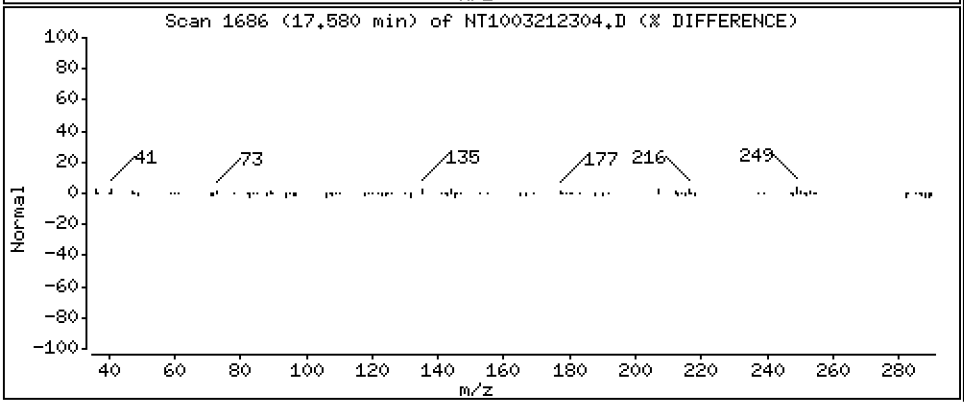












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

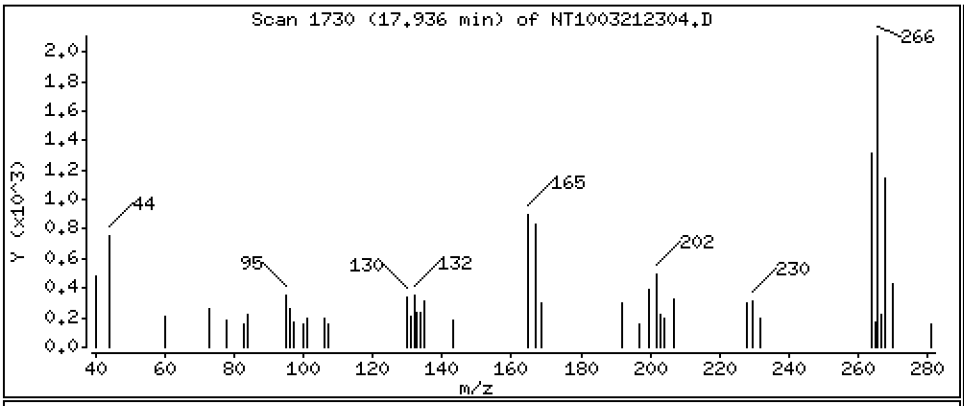
Operator: VTS

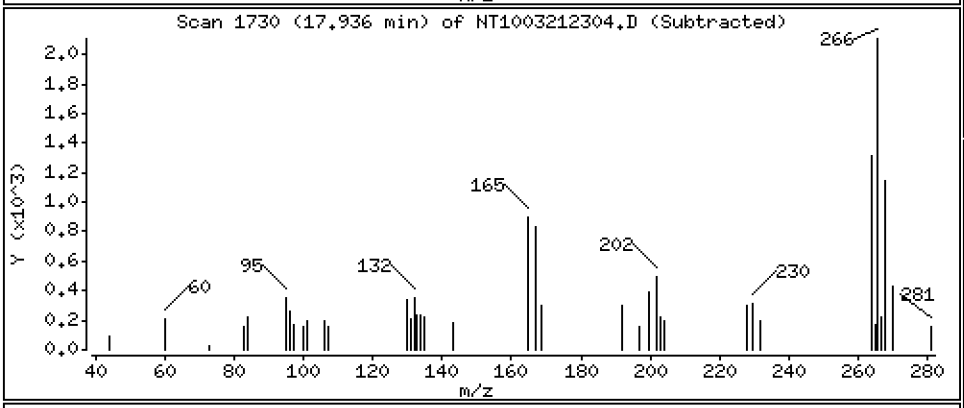
Column phase: ZB-5msi

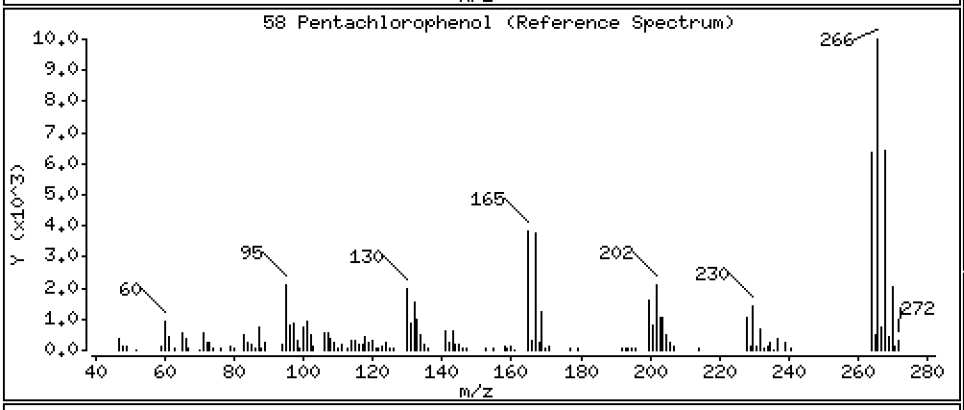
Column diameter: 0.25

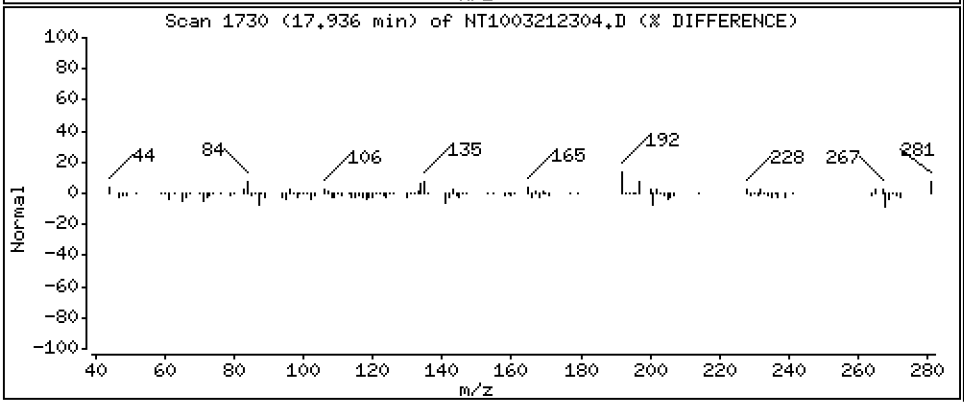
58 Pentachlorophenol

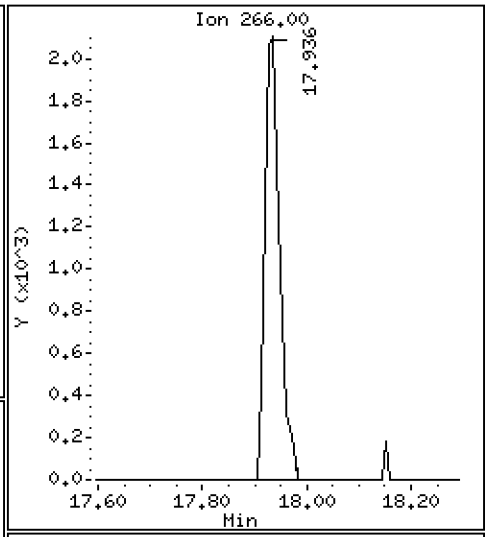
Concentration: 0.2082 ug/mL

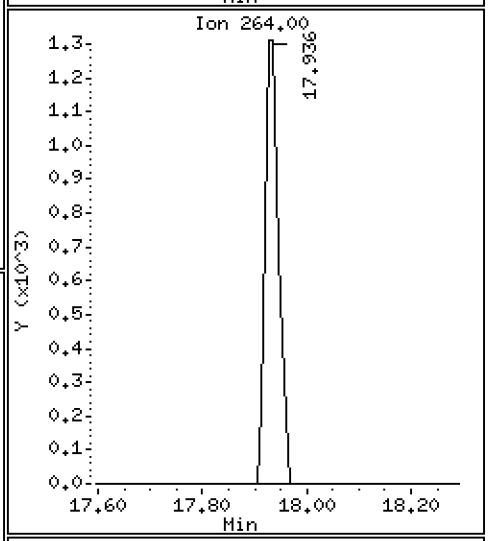


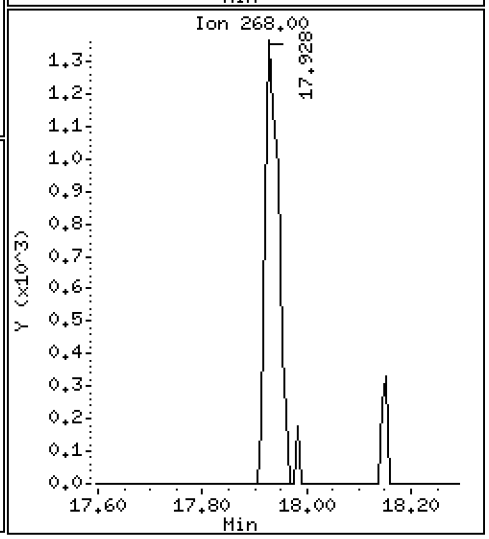












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

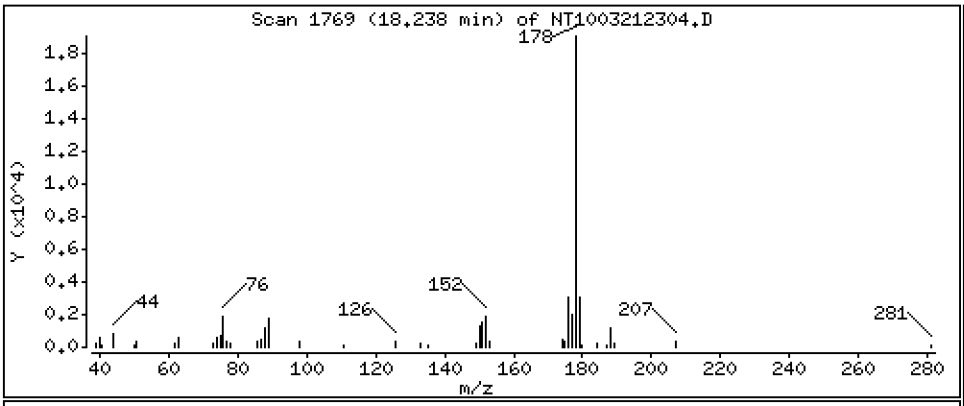
Operator: VTS

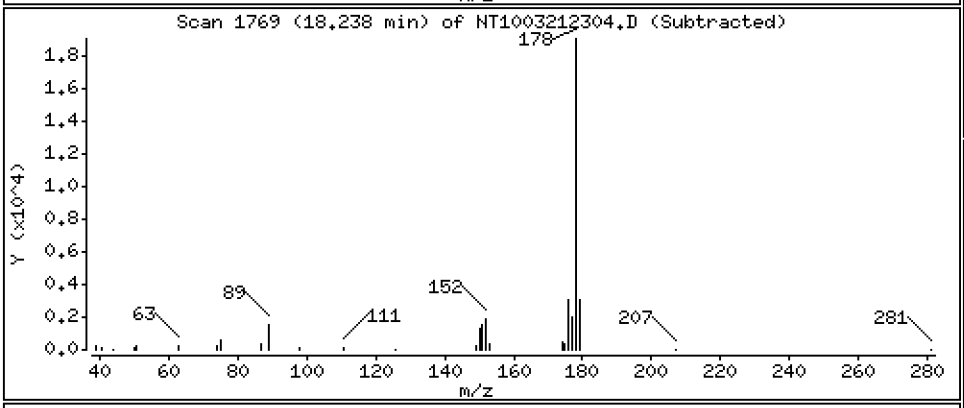
Column phase: ZB-5msi

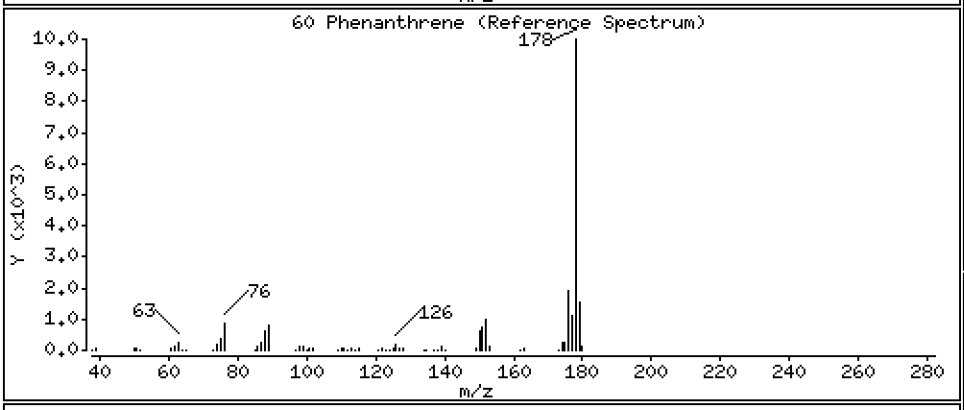
Column diameter: 0.25

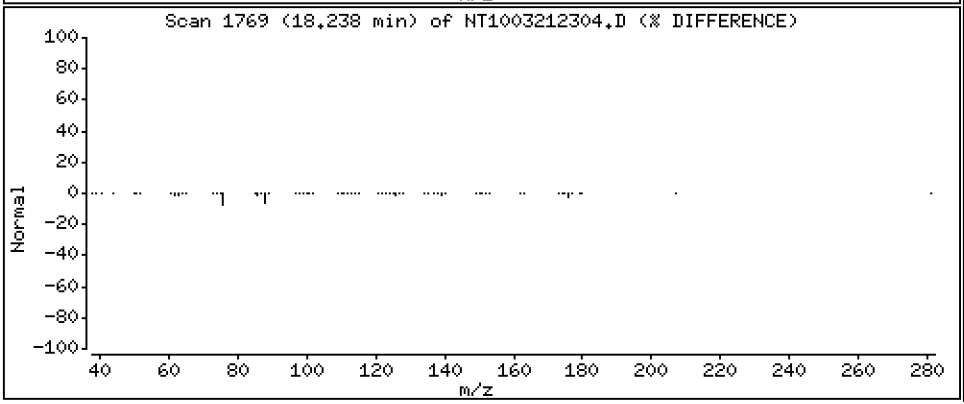
60 Phenanthrene

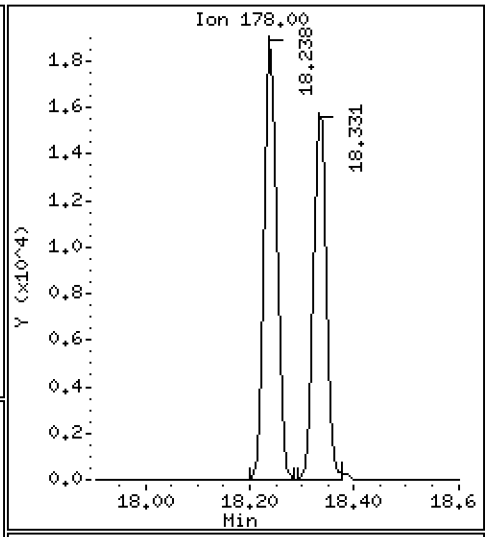
Concentration: 0.2068 ug/mL

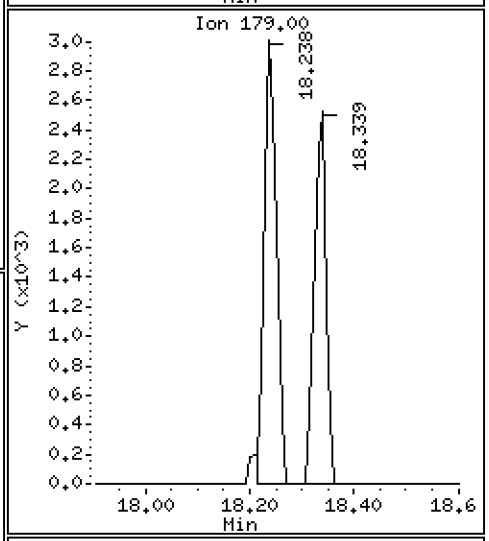


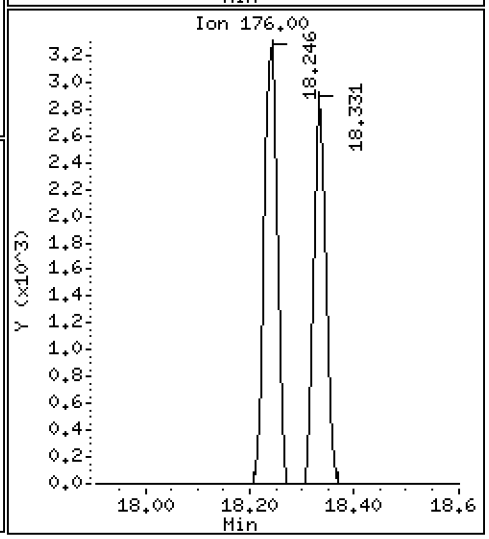












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212304.D

Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

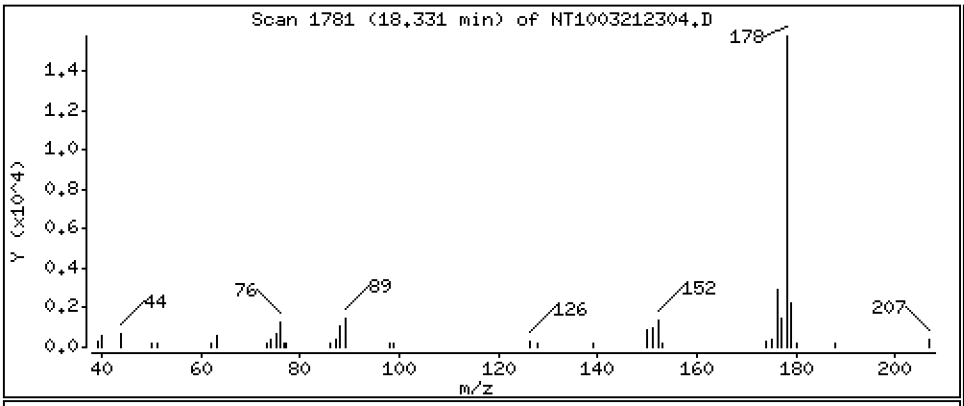
Operator: VTS

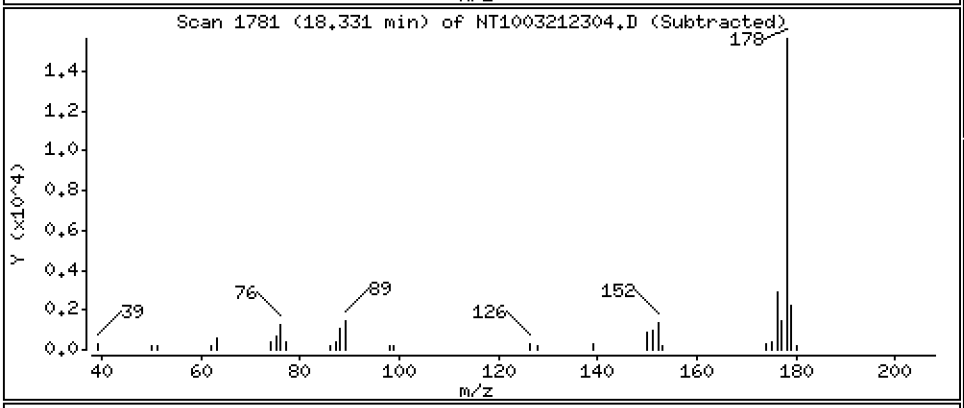
Column phase: ZB-5msi

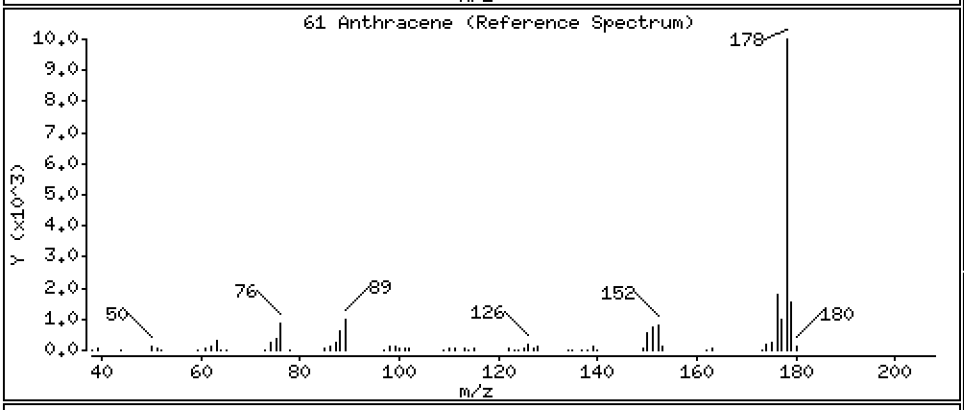
Column diameter: 0.25

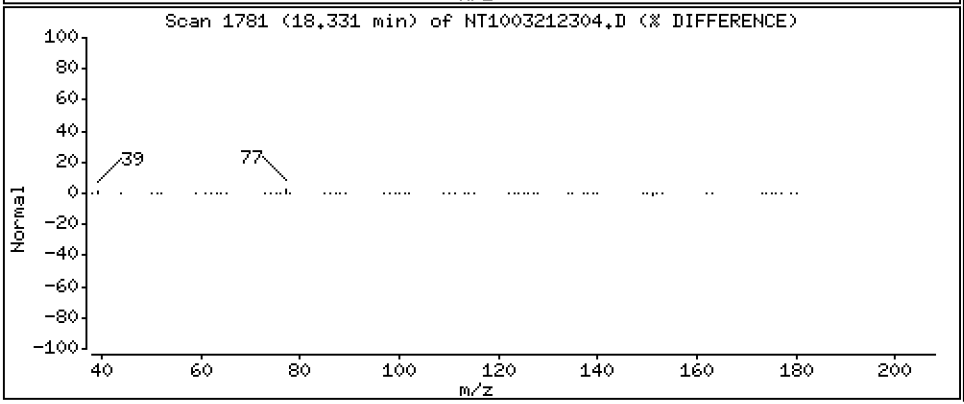
61 Anthracene

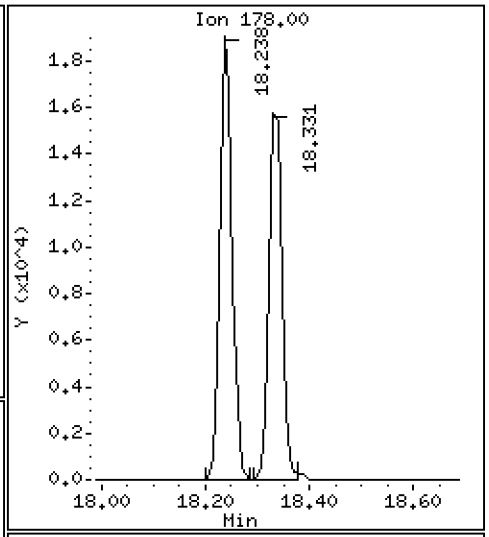
Concentration: 0.1795 ug/mL

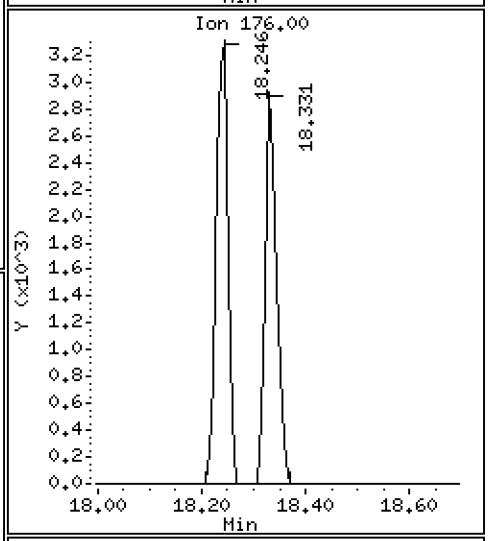


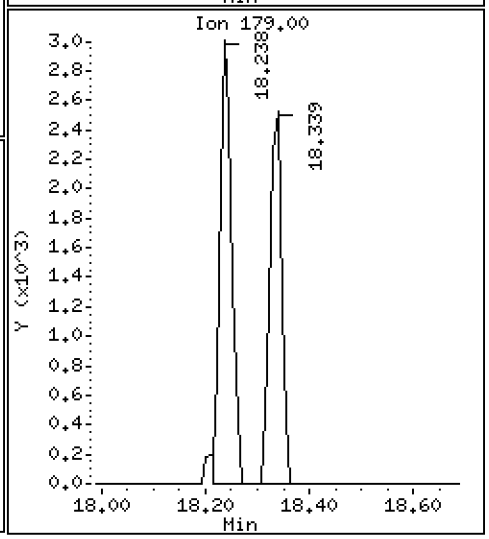












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

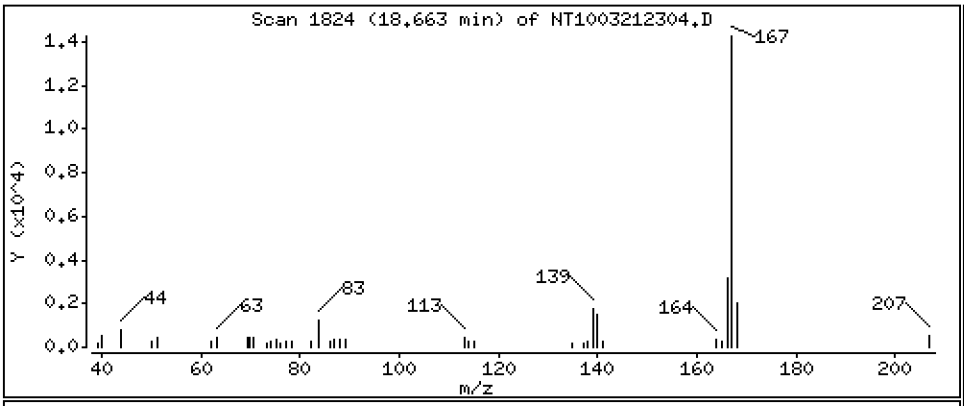
Operator: VTS

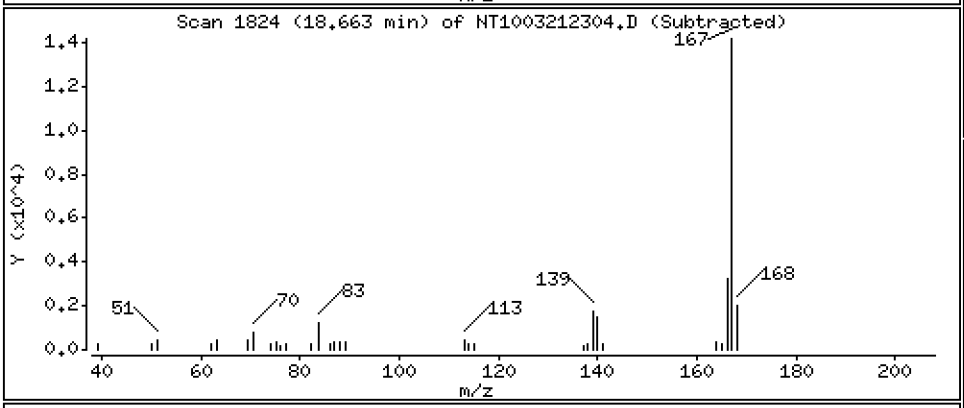
Column phase: ZB-5msi

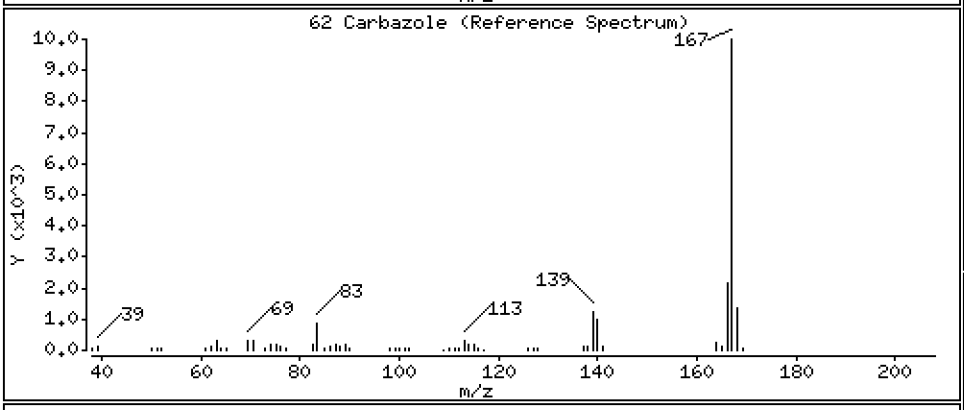
Column diameter: 0.25

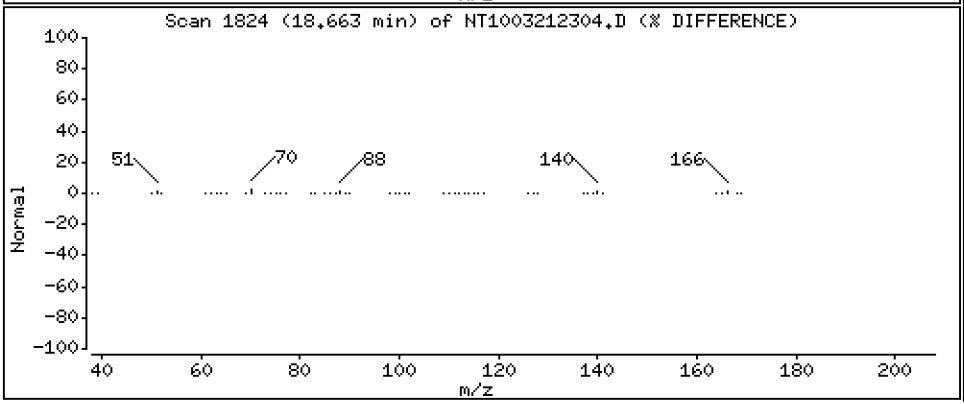
62 Carbazole

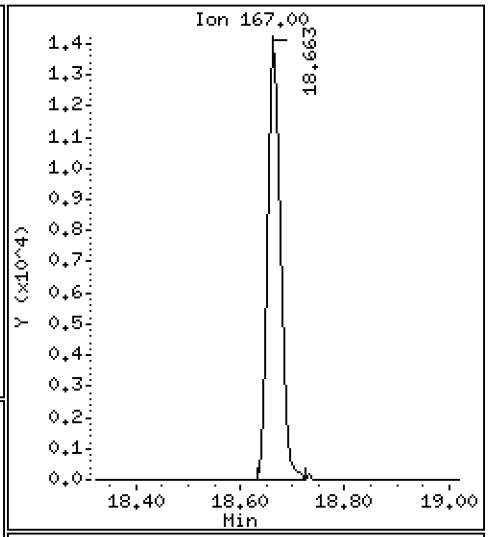
Concentration: 0.1817 ug/mL

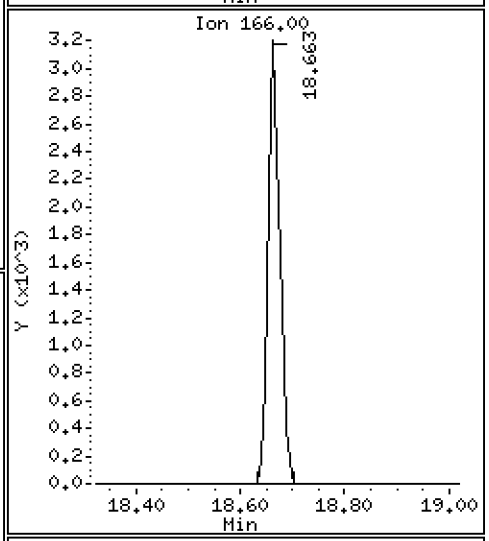


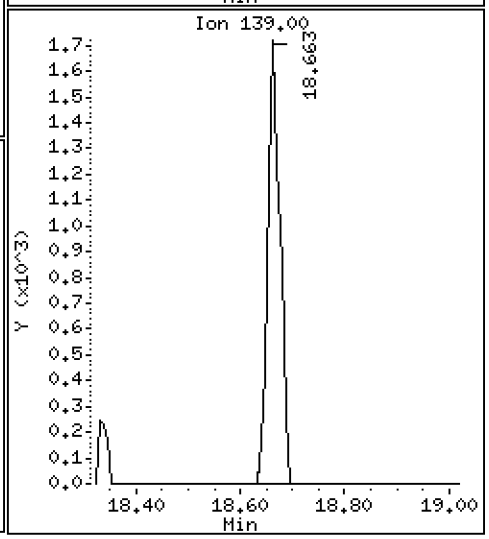












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

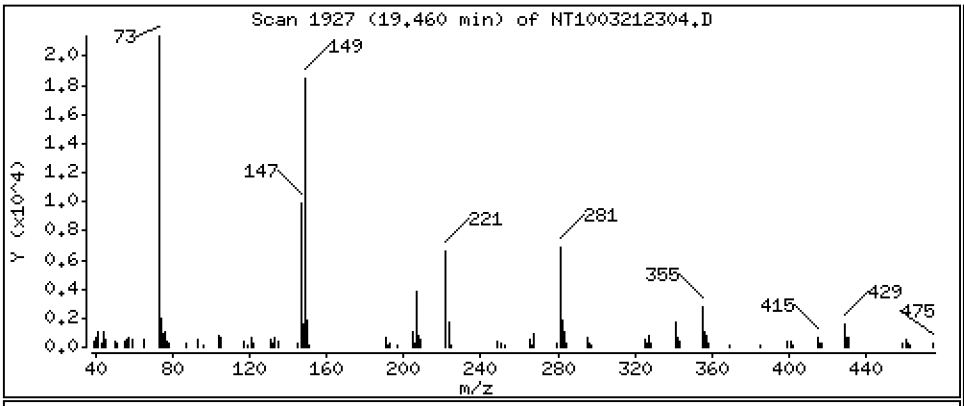
Operator: VTS

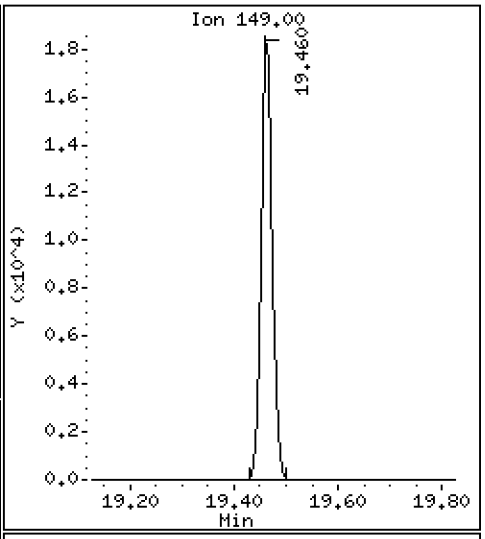
Column phase: ZB-5msi

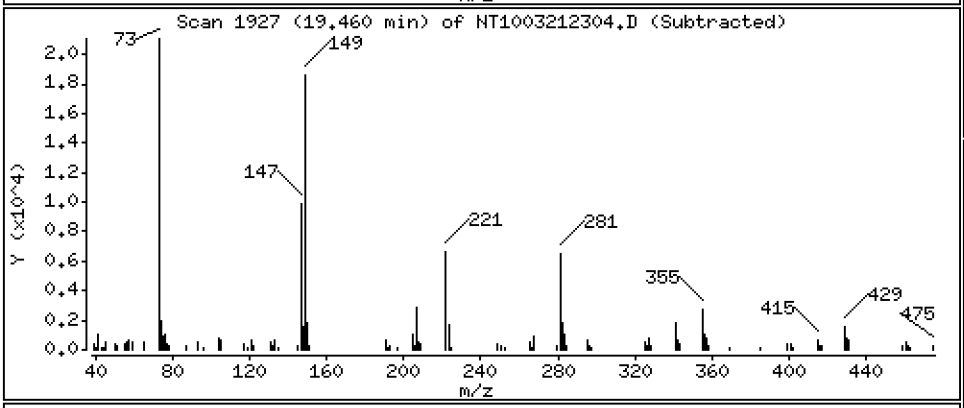
Column diameter: 0.25

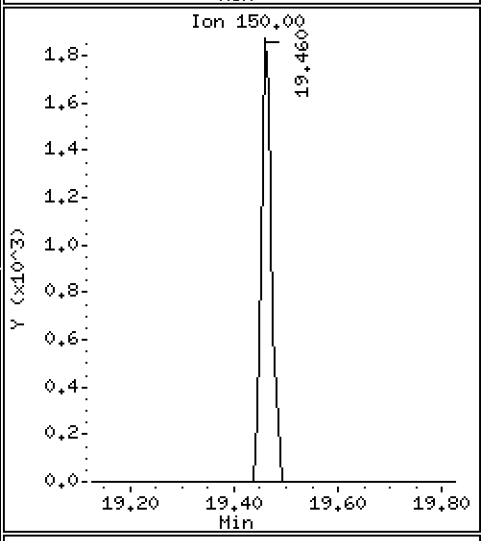
63 Di-n-butylphthalate

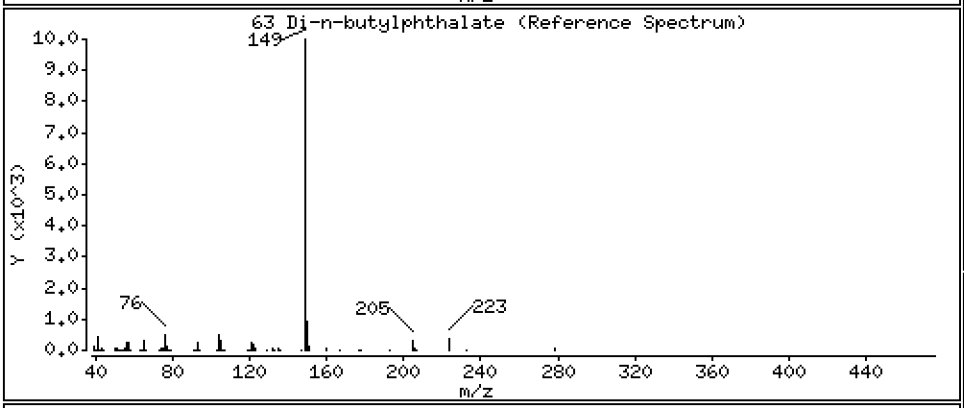
Concentration: 0.1564 ug/mL

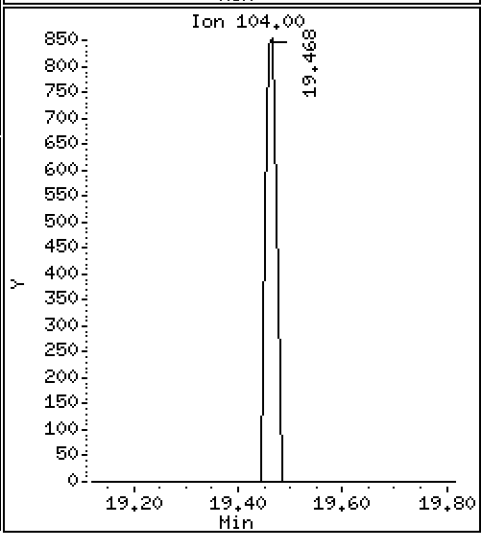


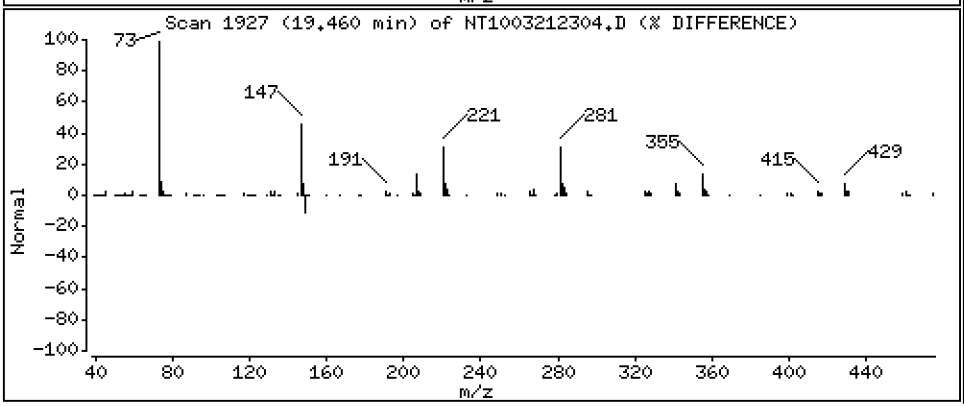












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

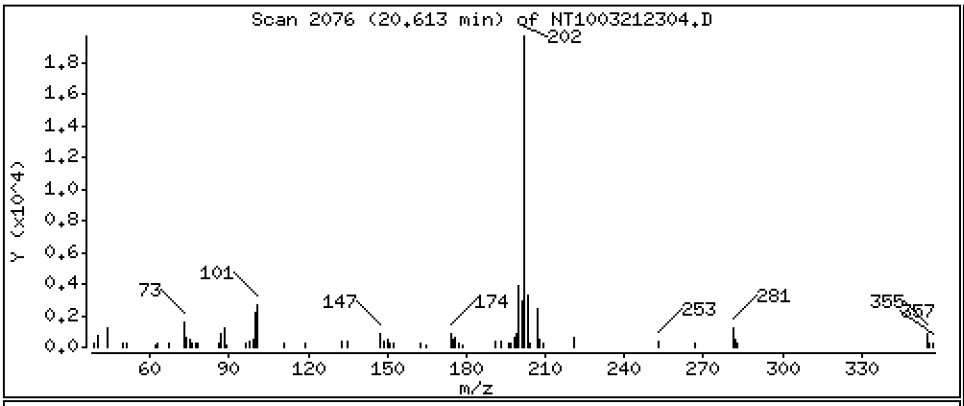
Operator: VTS

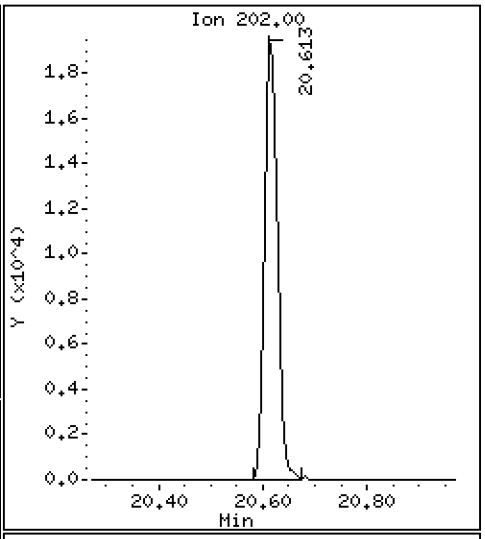
Column phase: ZB-5msi

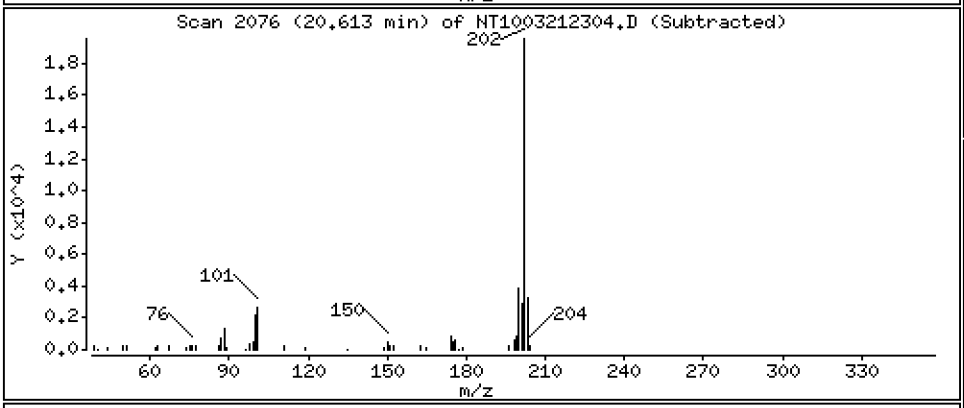
Column diameter: 0.25

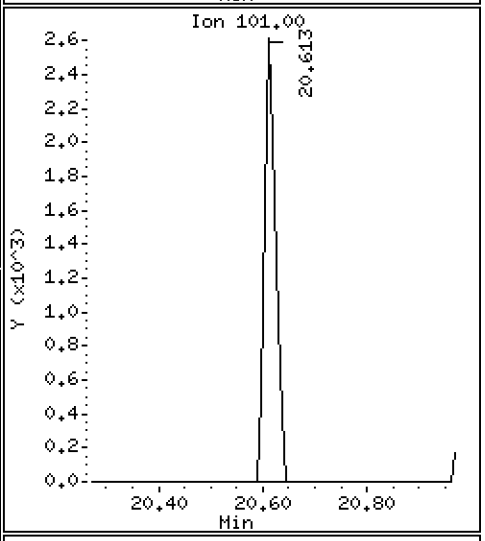
64 Fluoranthene

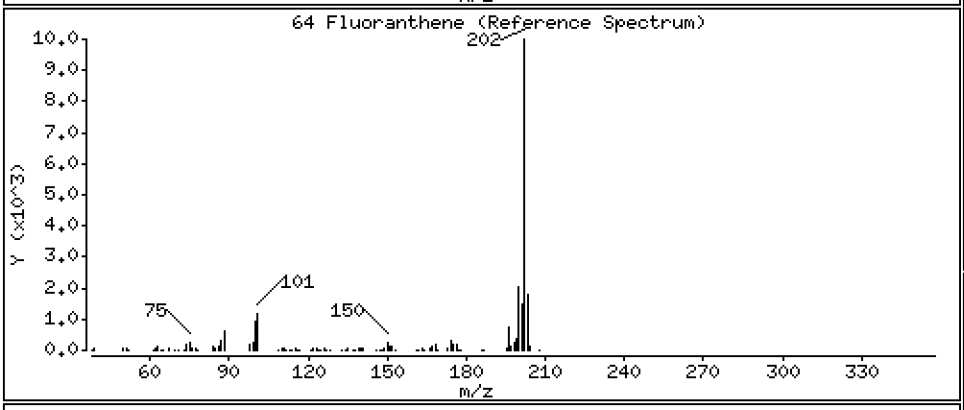
Concentration: 0.1712 ug/mL

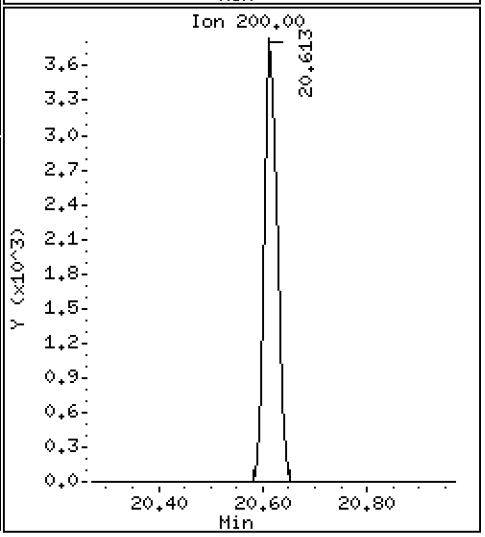


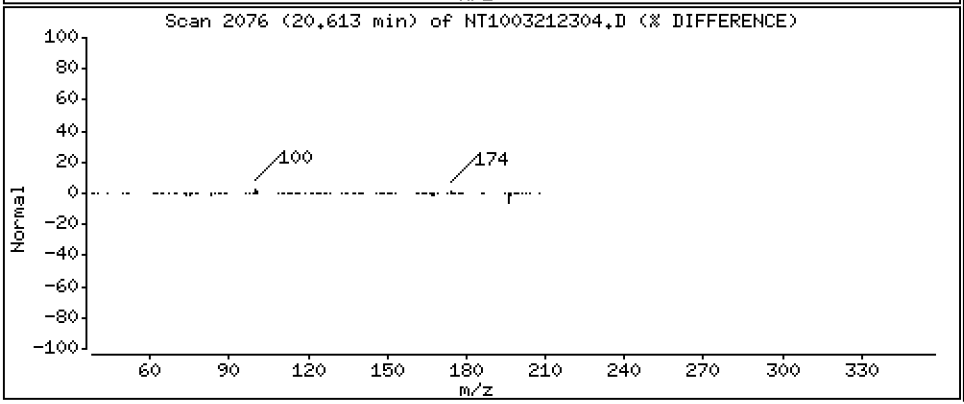












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

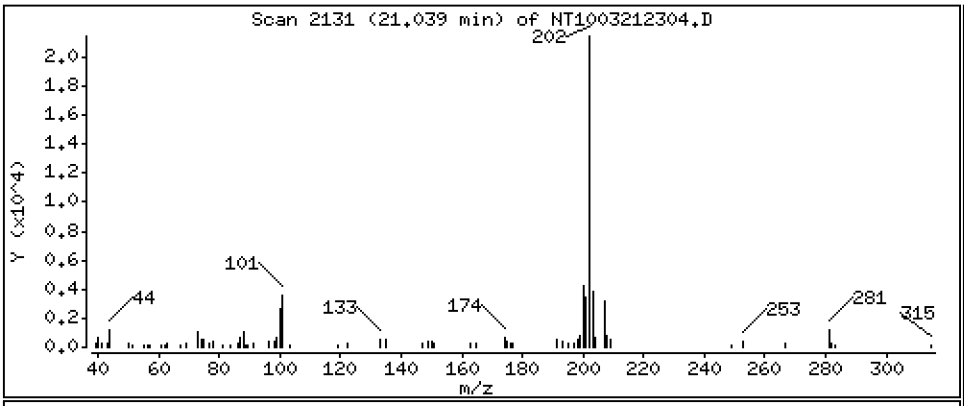
Operator: VTS

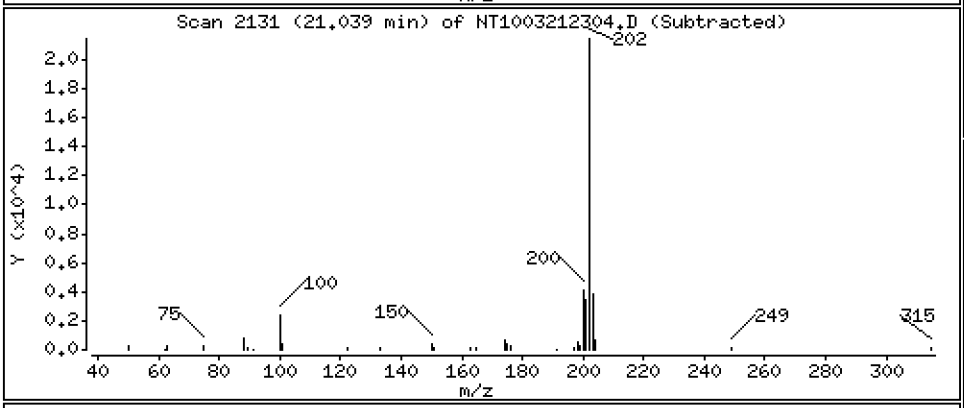
Column phase: ZB-5msi

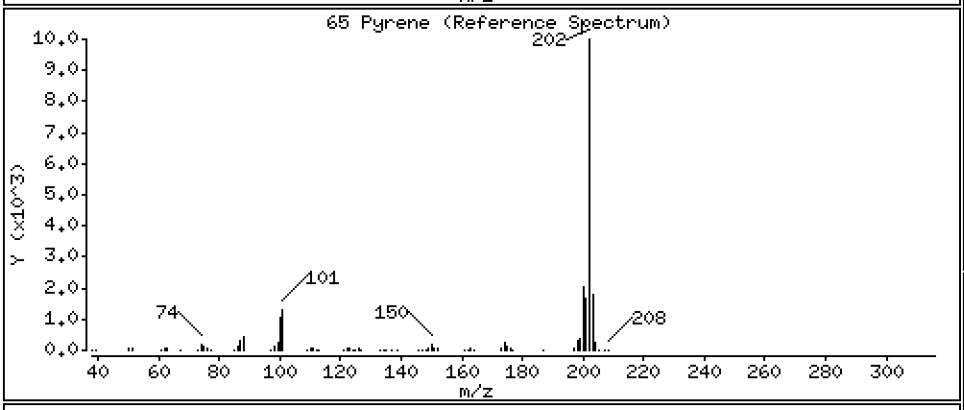
Column diameter: 0.25

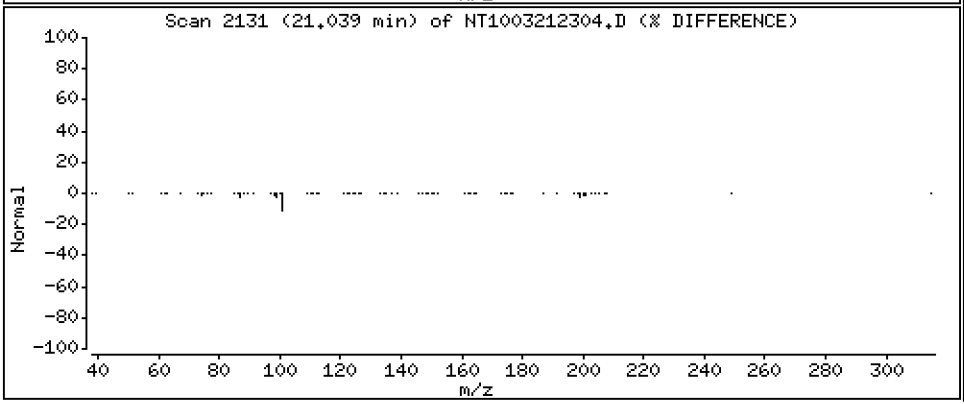
65 Pyrene

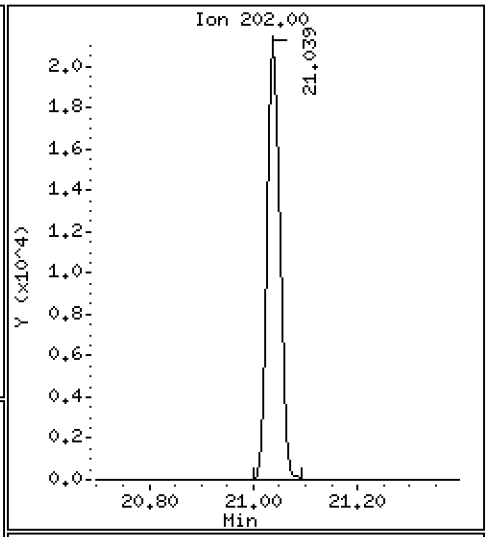
Concentration: 0.1828 ug/mL

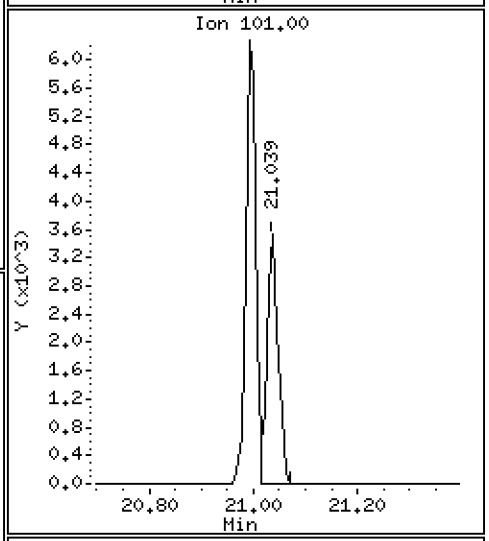


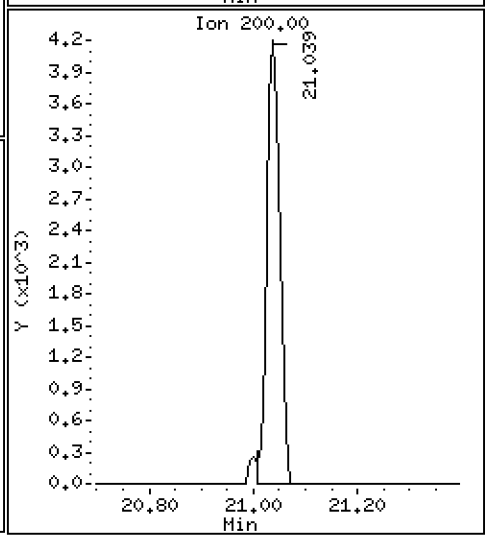












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

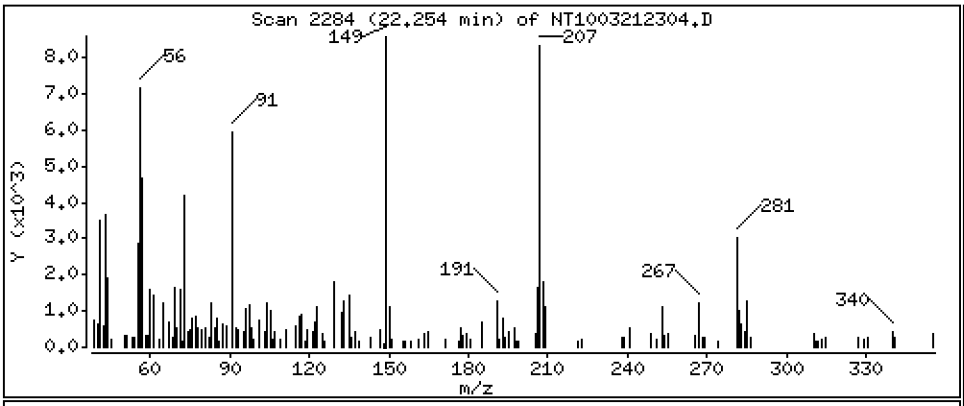
Operator: VTS

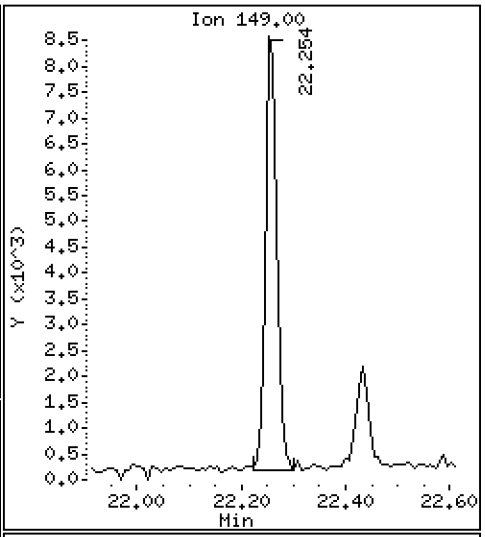
Column phase: ZB-5msi

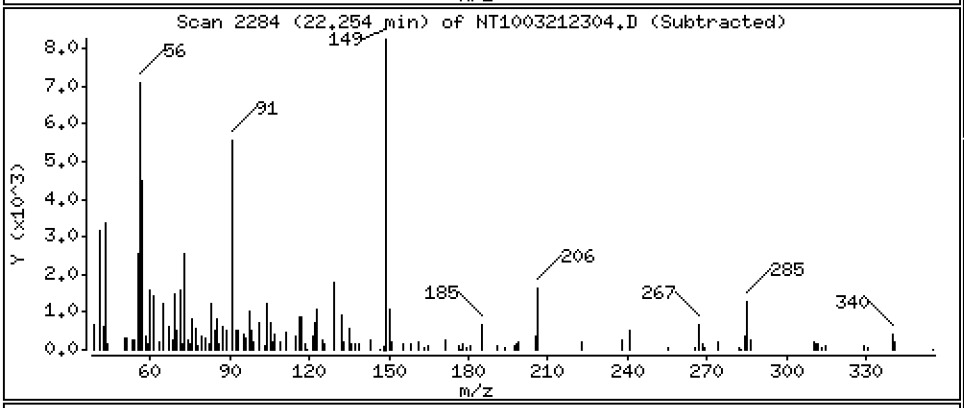
Column diameter: 0.25

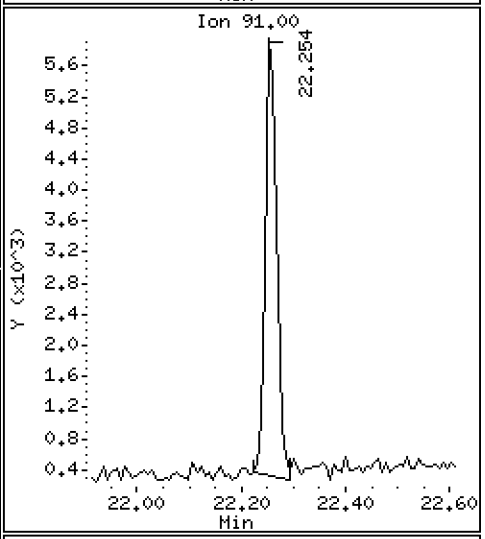
67 Butylbenzylphthalate

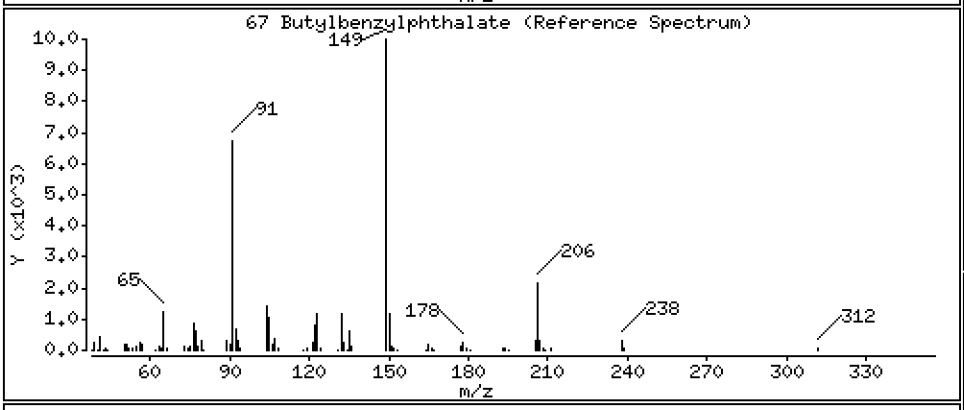
Concentration: 0.1775 ug/mL

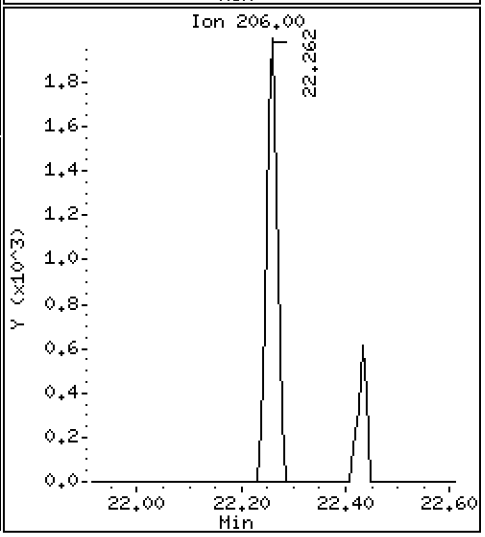


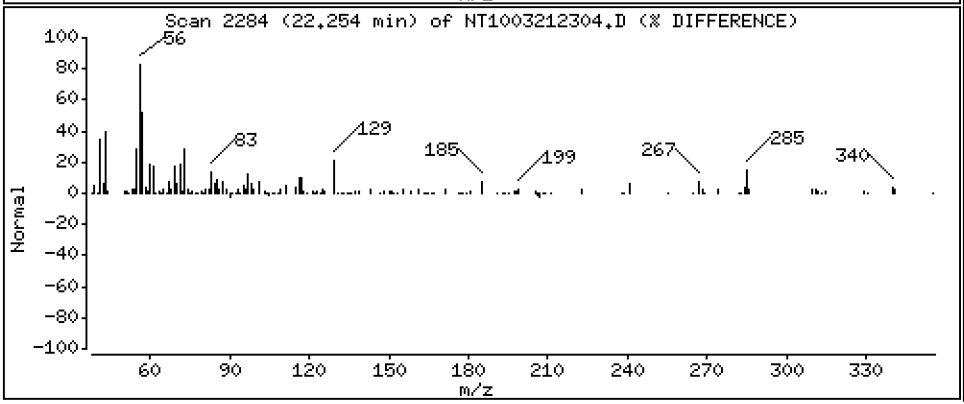












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

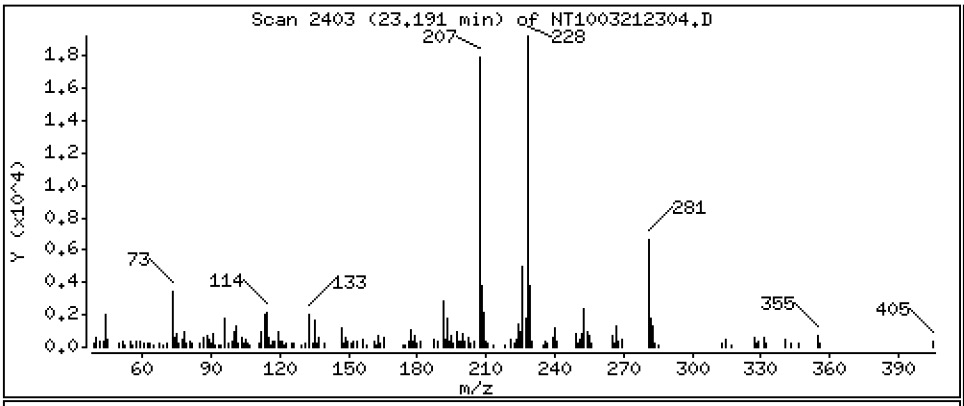
Operator: VTS

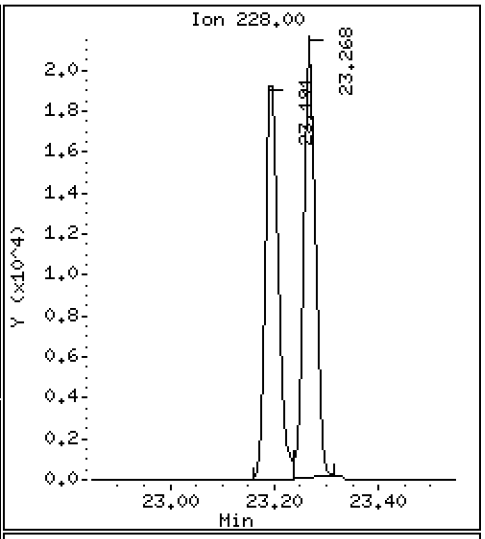
Column phase: ZB-5msi

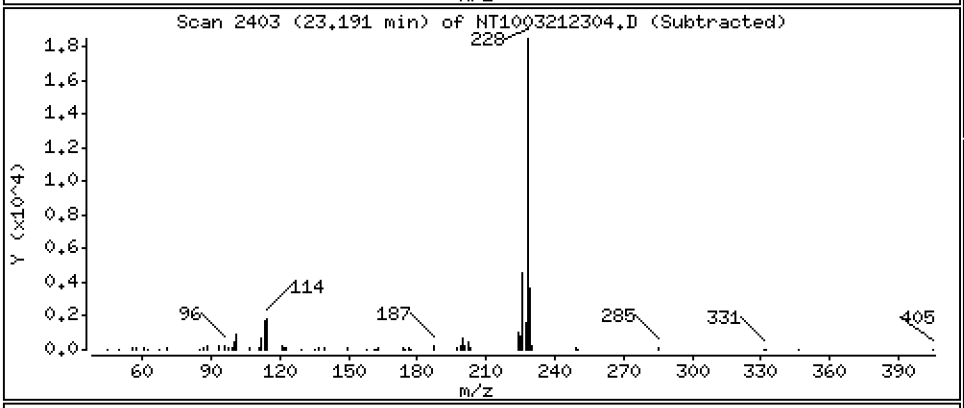
Column diameter: 0.25

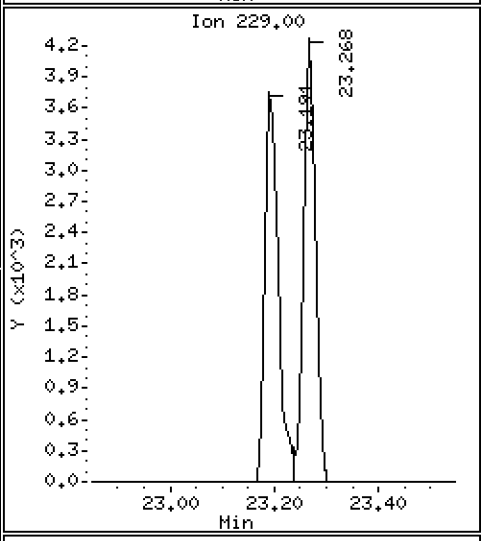
68 Benzo(a)anthracene

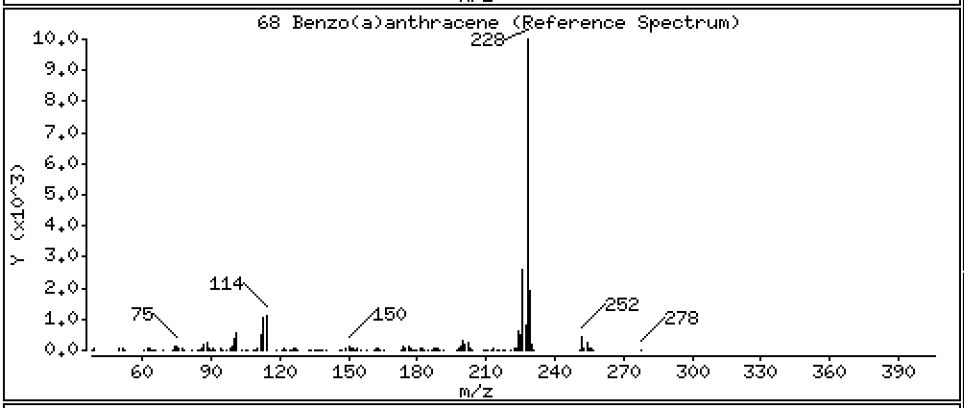
Concentration: 0.1959 ug/mL

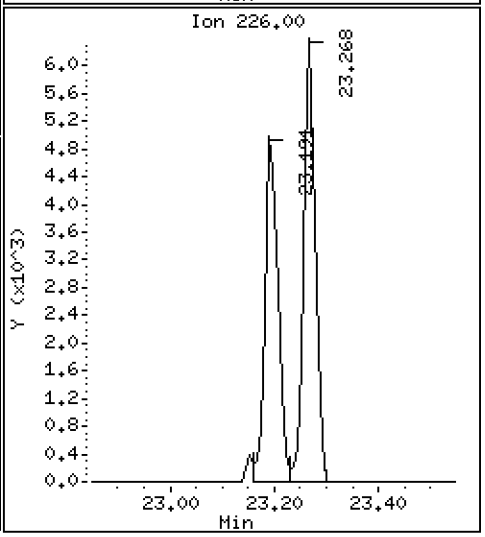


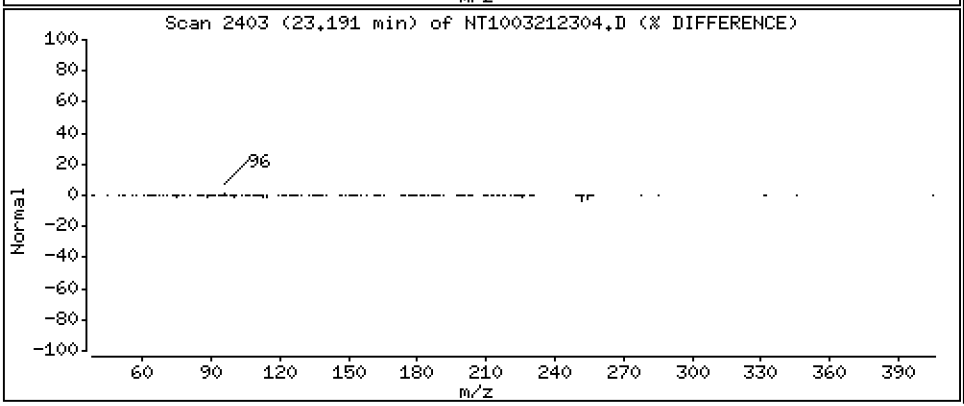












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212304.D

Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

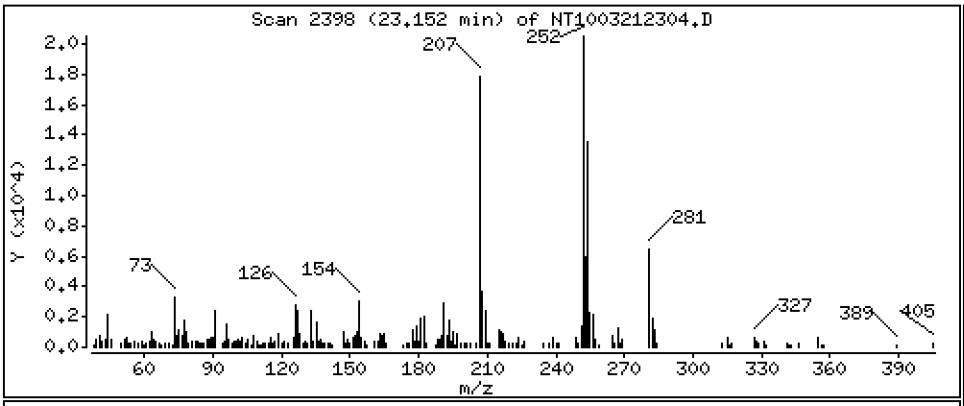
Operator: VTS

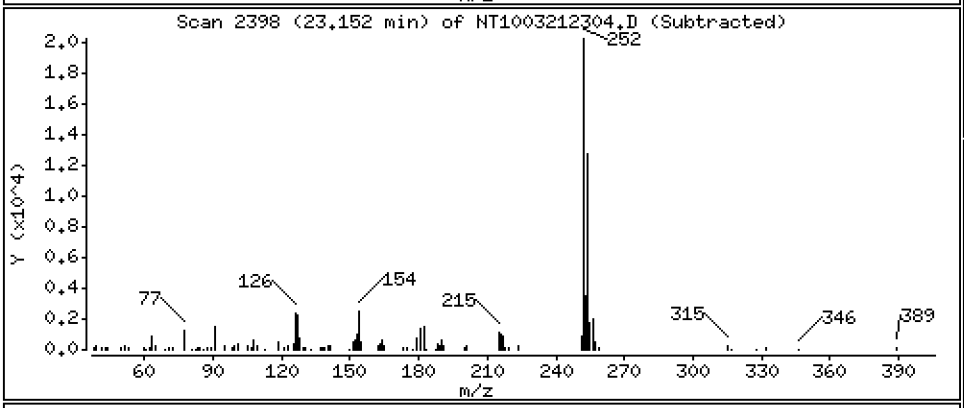
Column phase: ZB-5msi

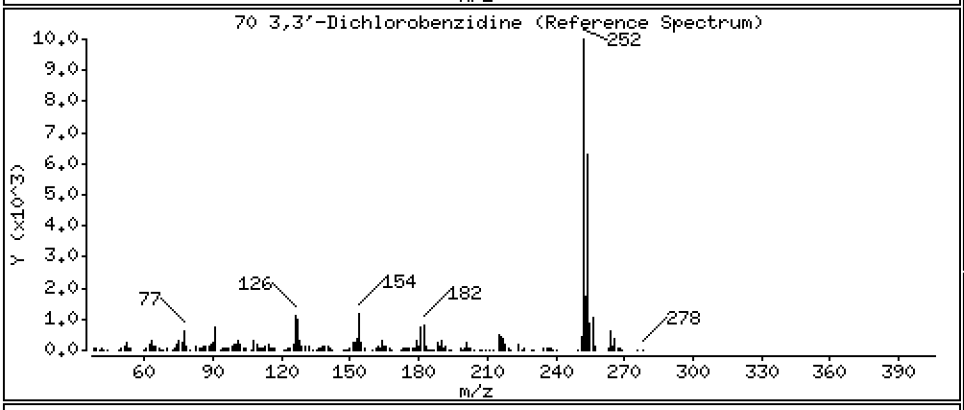
Column diameter: 0.25

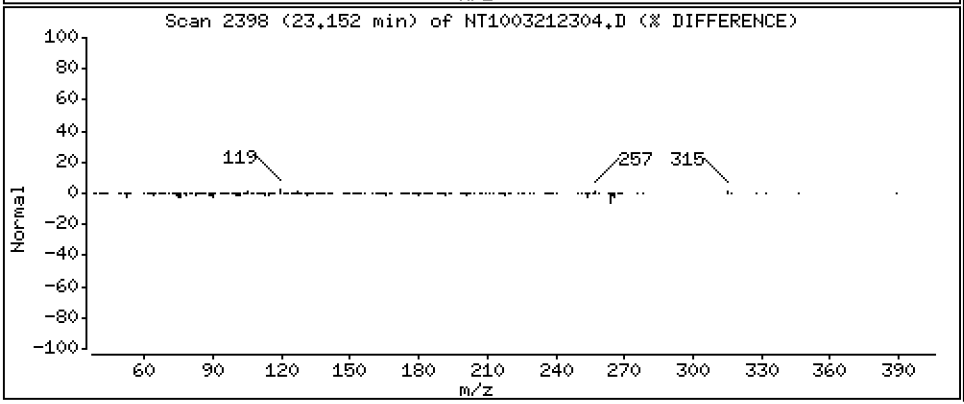
70 3,3'-Dichlorobenzidine

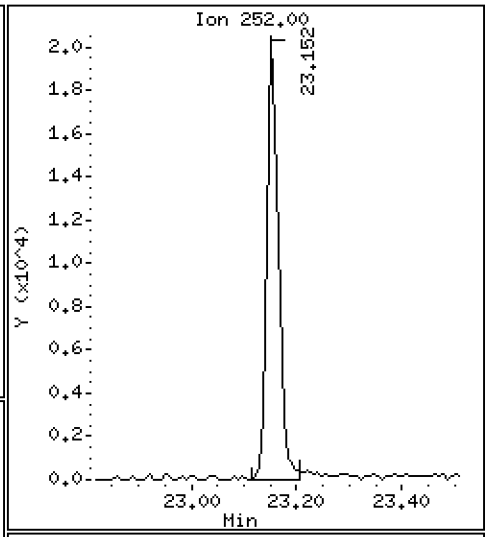
Concentration: 0.5782 ug/mL

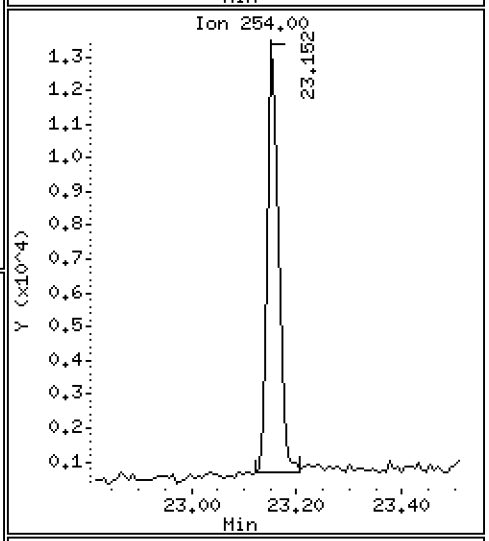


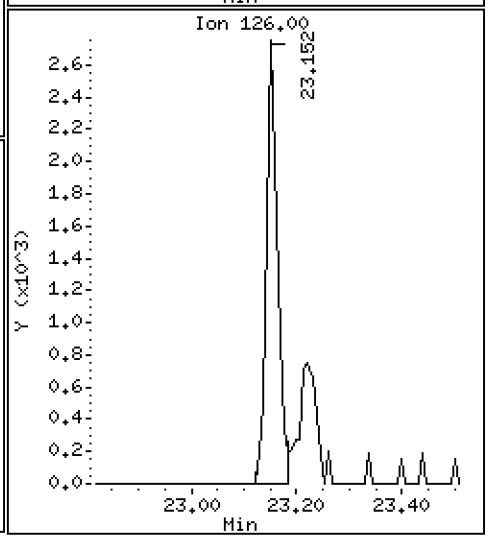












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

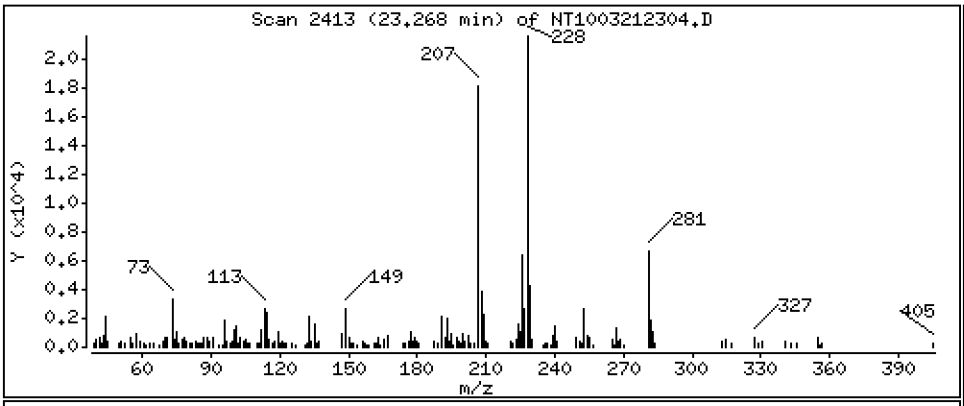
Operator: VTS

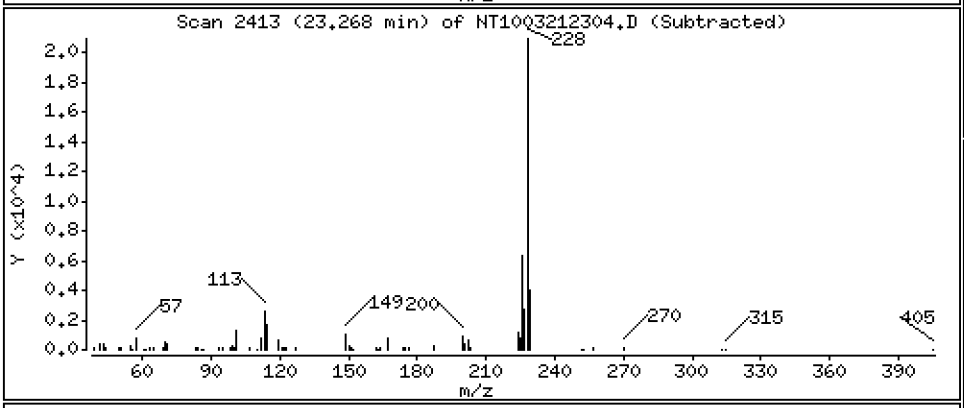
Column phase: ZB-5msi

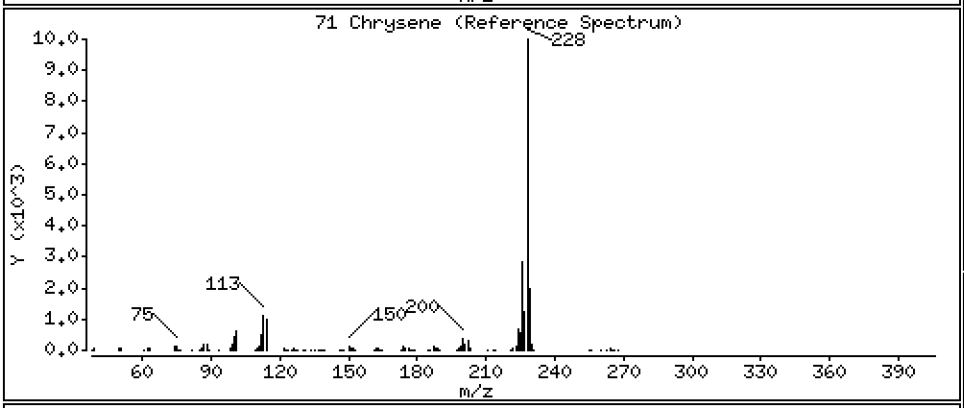
Column diameter: 0.25

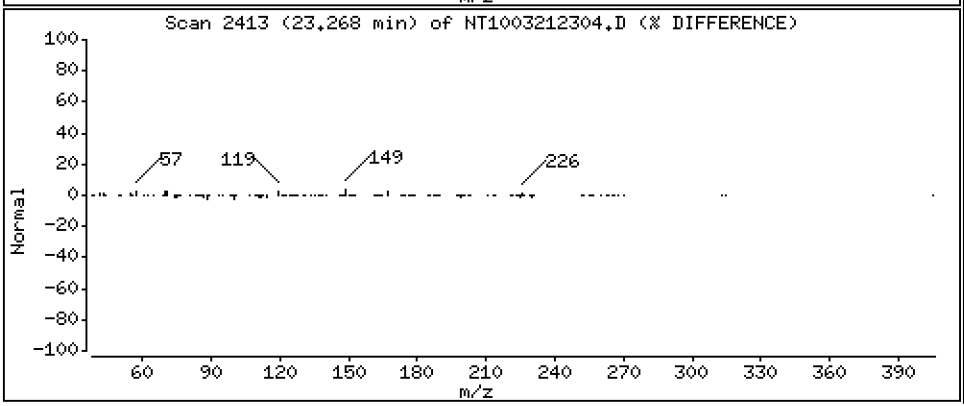
71 Chrysene

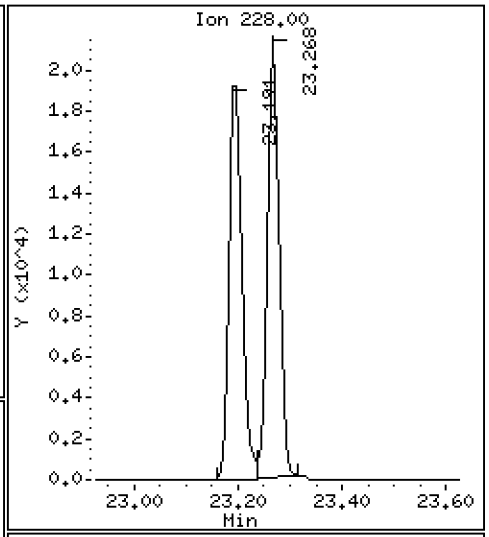
Concentration: 0.2008 ug/mL

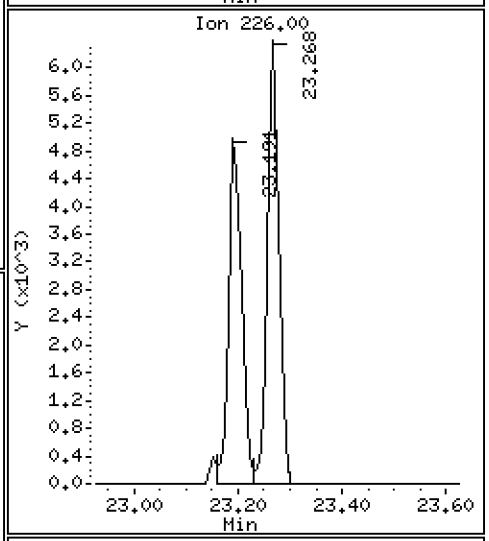


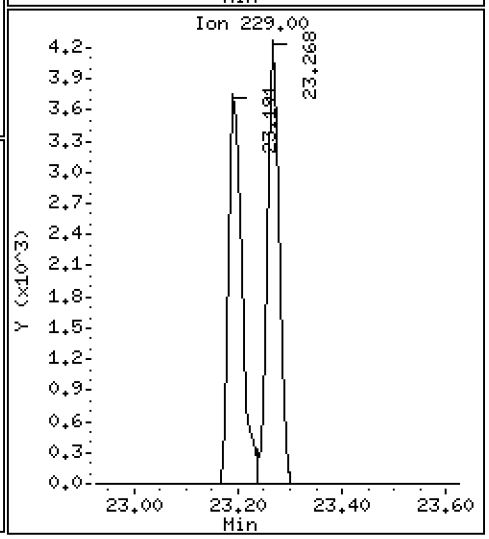












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

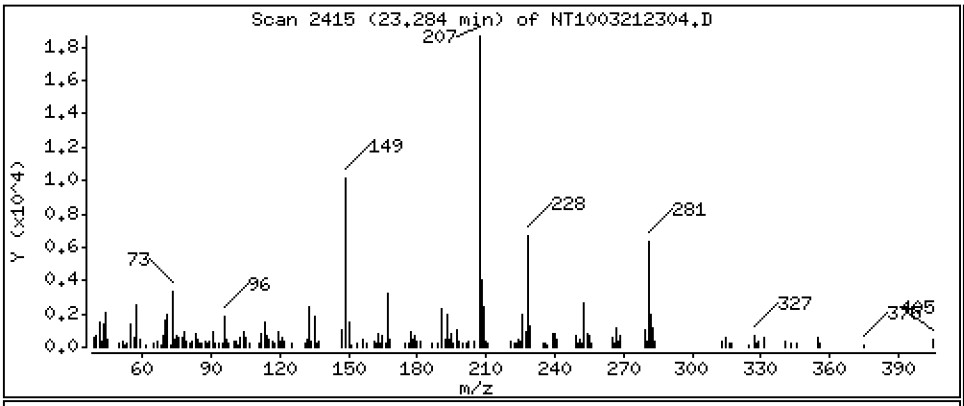
Operator: VTS

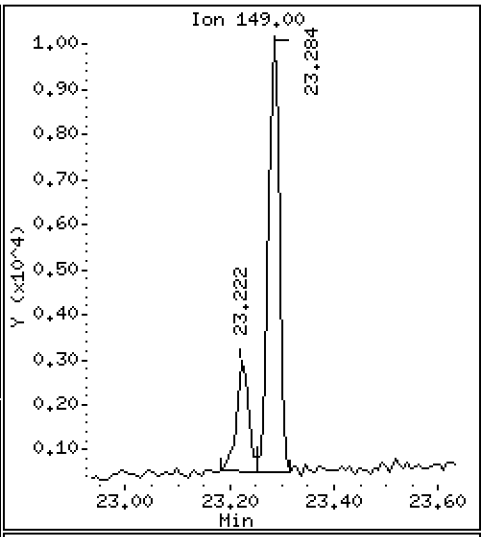
Column phase: ZB-5msi

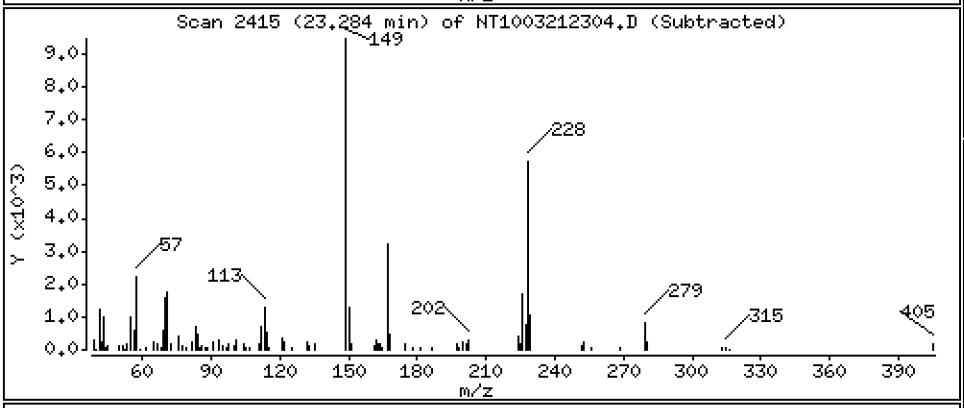
Column diameter: 0.25

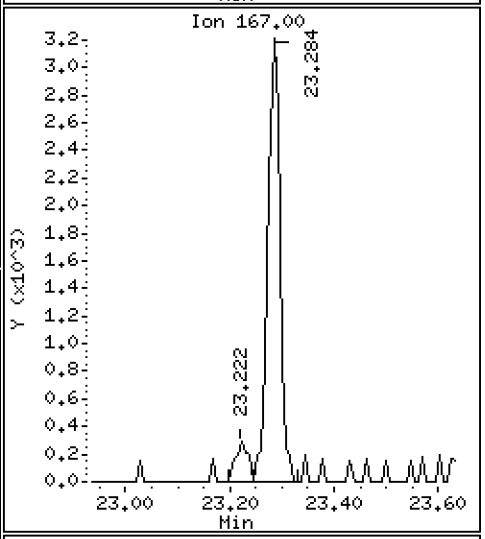
72 bis(2-Ethylhexyl)phthalate

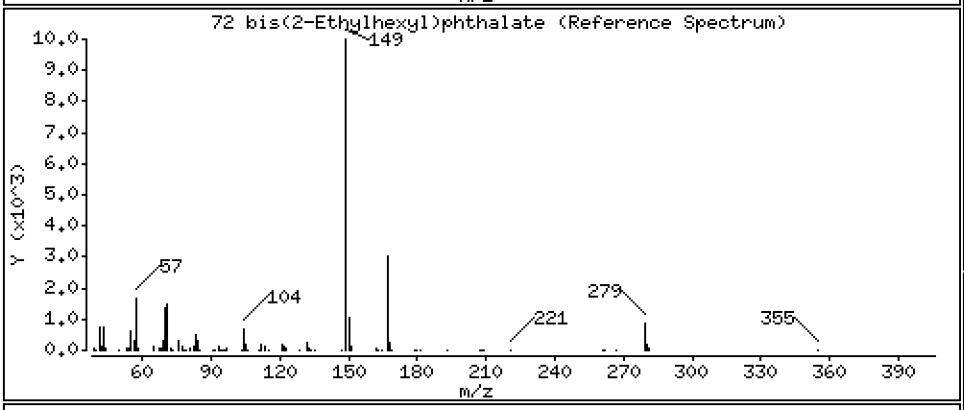
Concentration: 0.1411 ug/mL

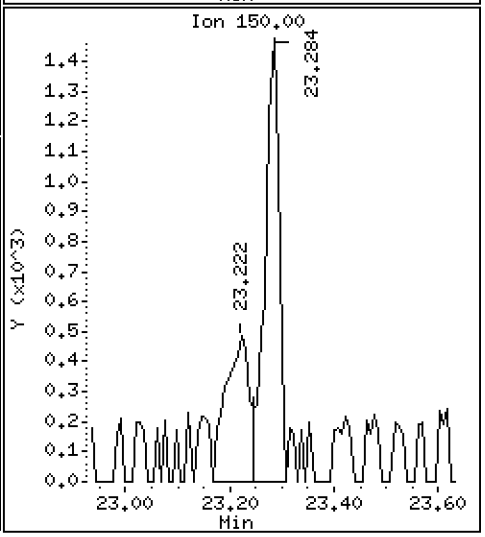


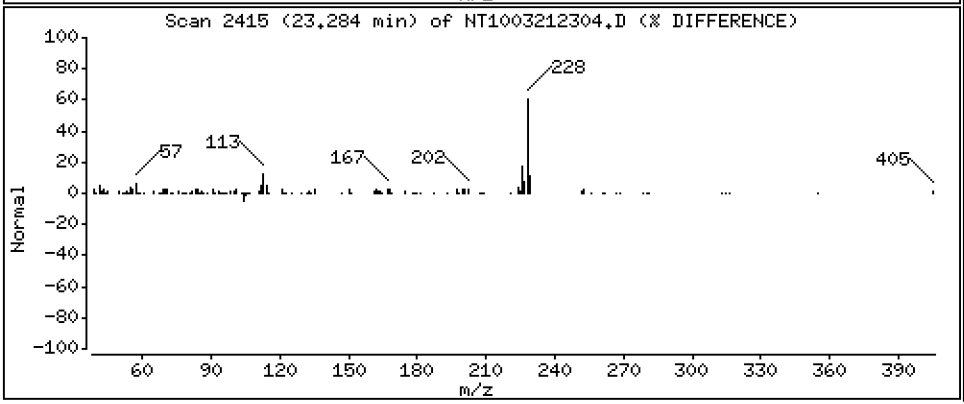












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

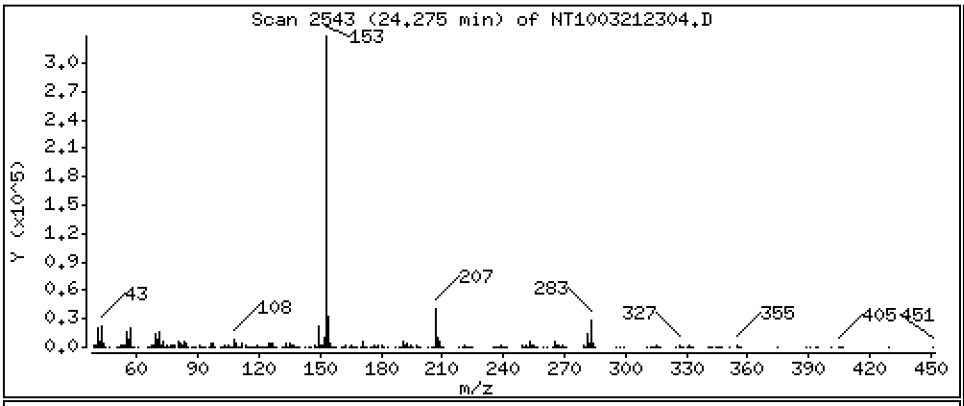
Operator: VTS

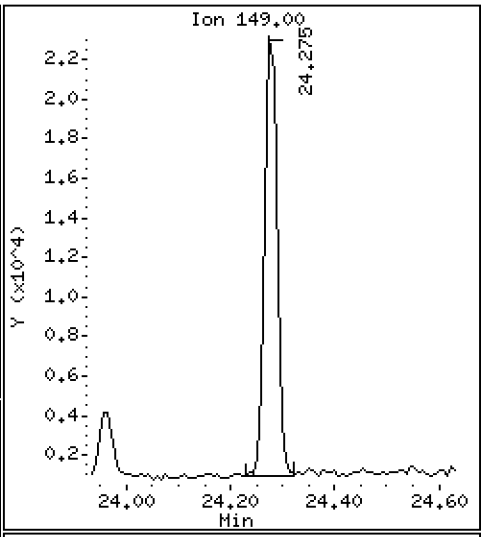
Column phase: ZB-5msi

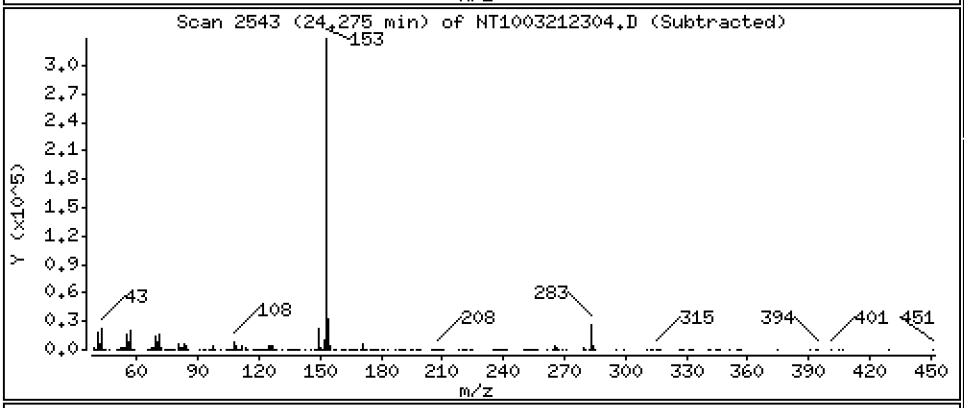
Column diameter: 0.25

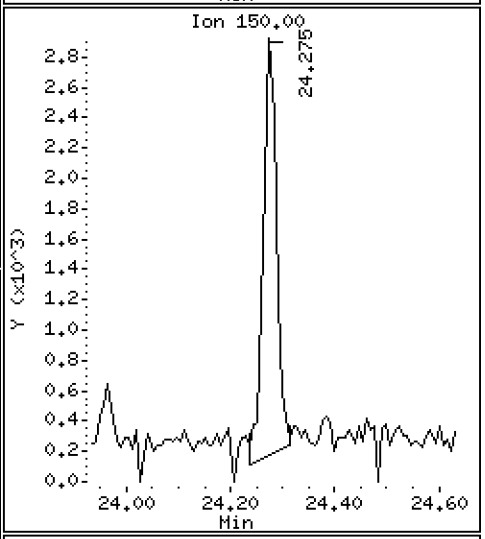
73 Di-n-octylphthalate

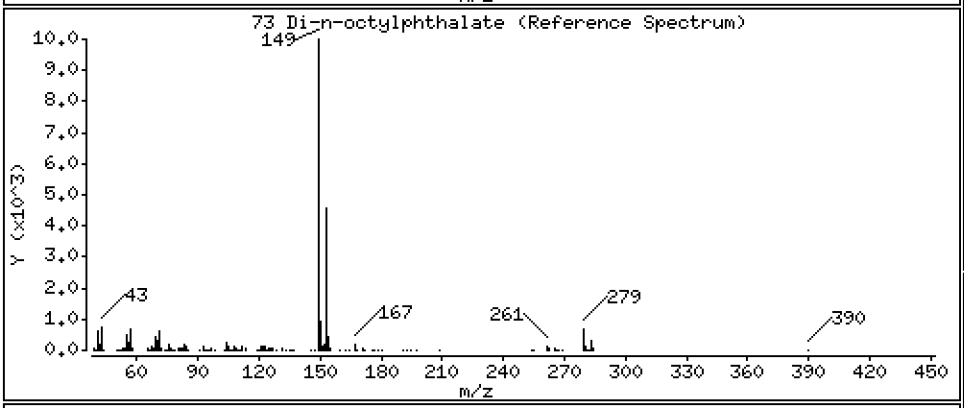
Concentration: 0.2085 ug/mL

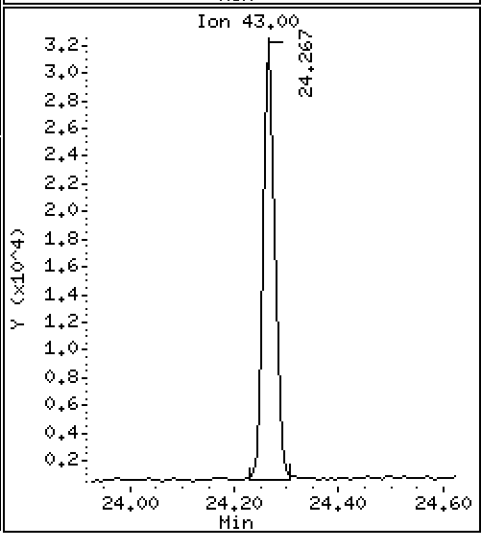


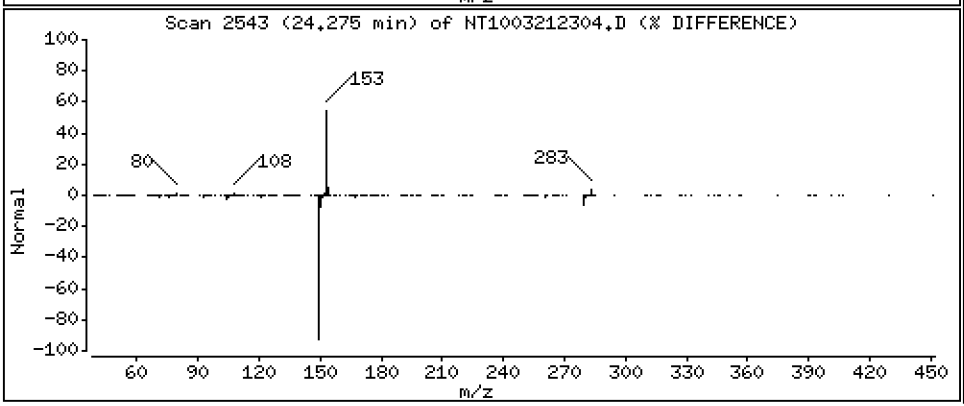












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

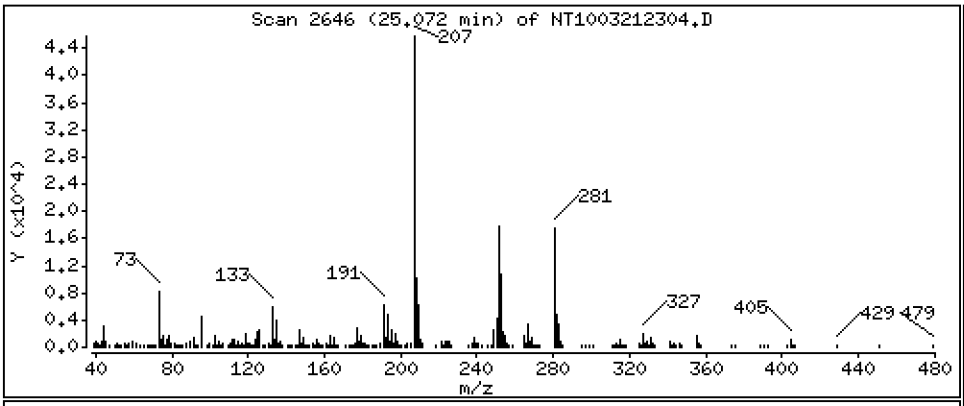
Operator: VTS

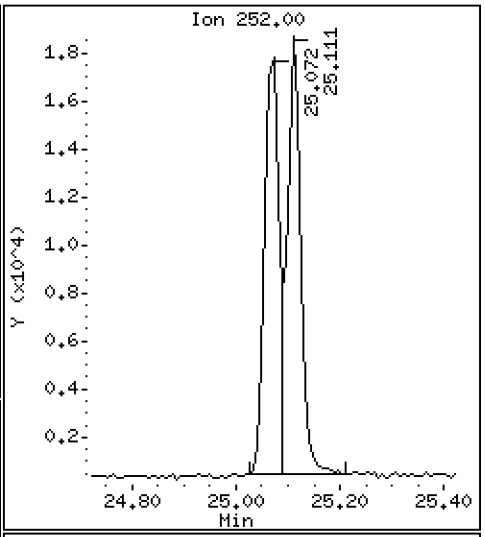
Column phase: ZB-5msi

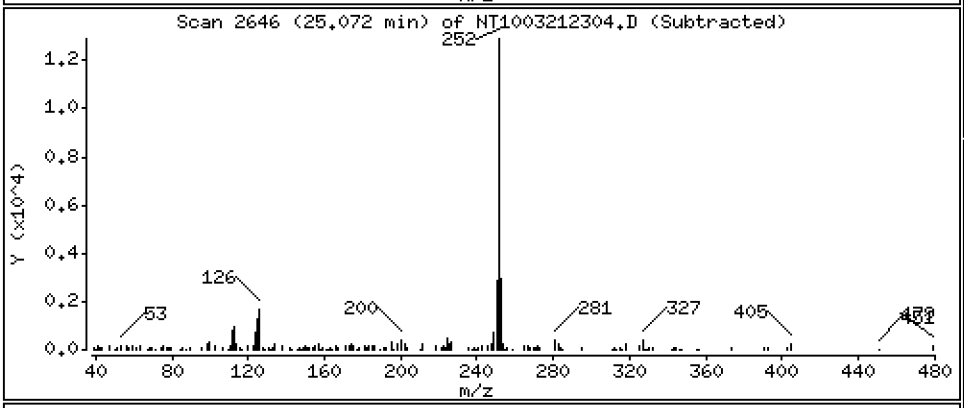
Column diameter: 0.25

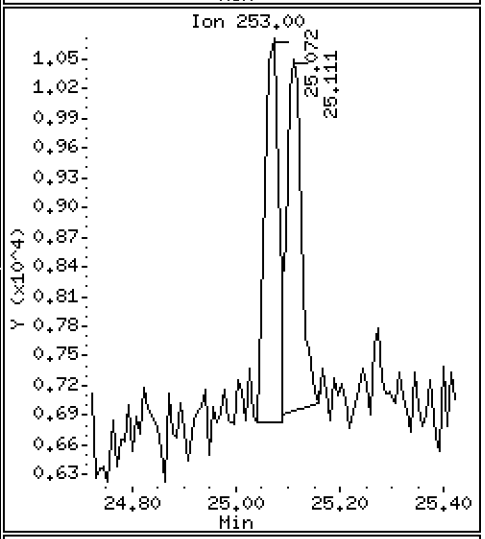
74 Benzo(b)fluoranthene

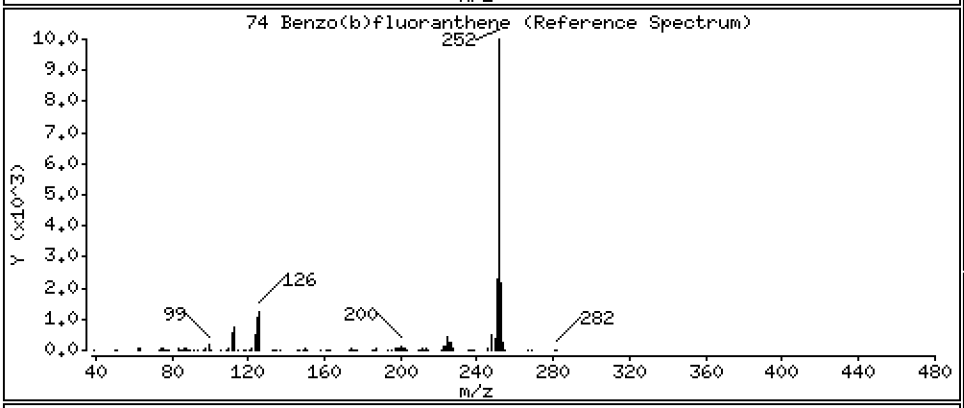
Concentration: 0.1938 ug/mL

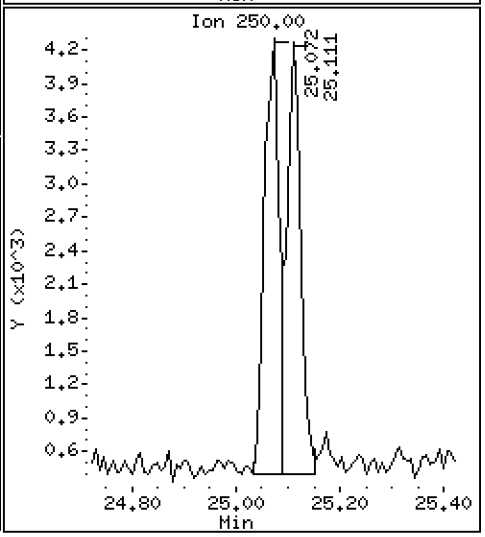


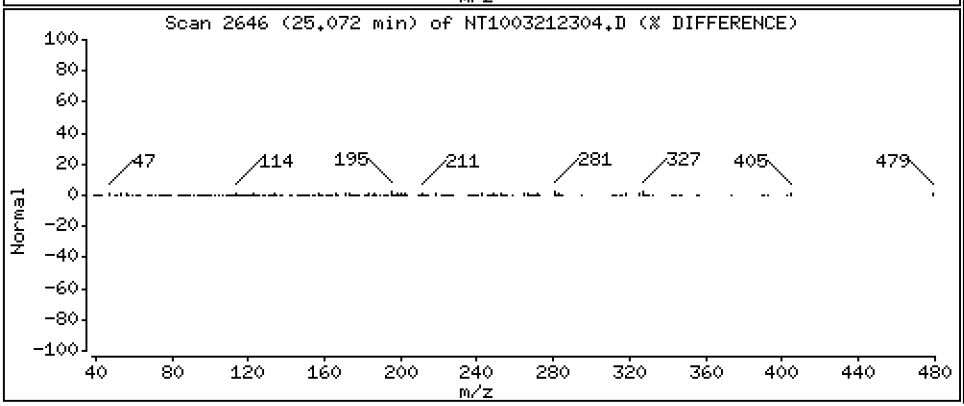












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

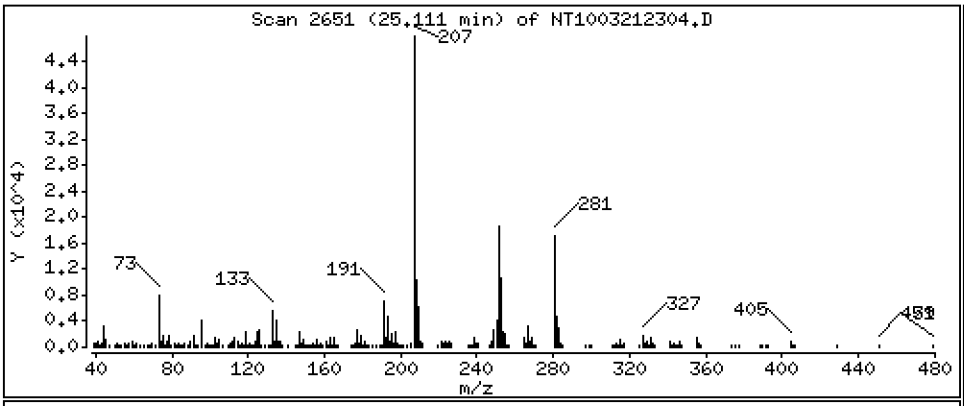
Operator: VTS

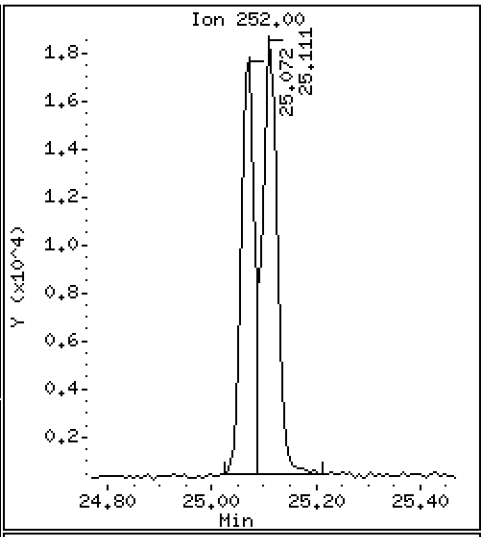
Column phase: ZB-5msi

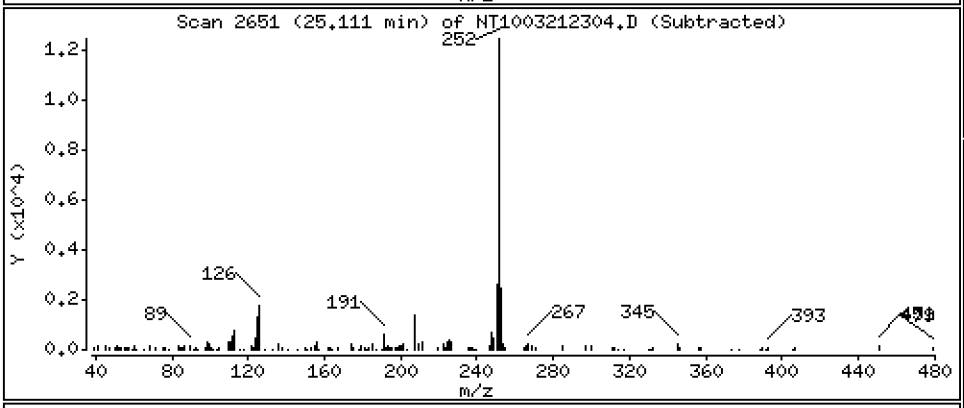
Column diameter: 0.25

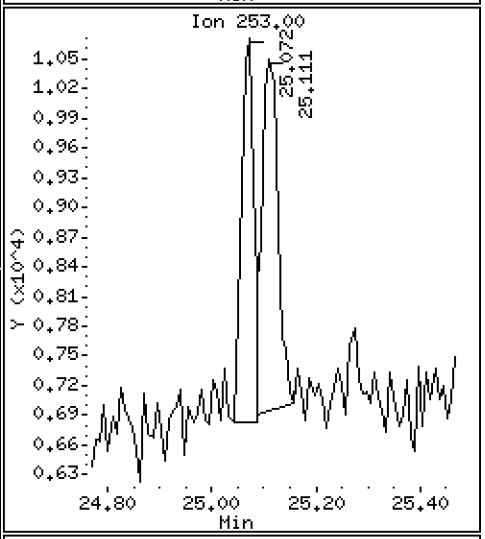
75 Benzo(k)fluoranthene

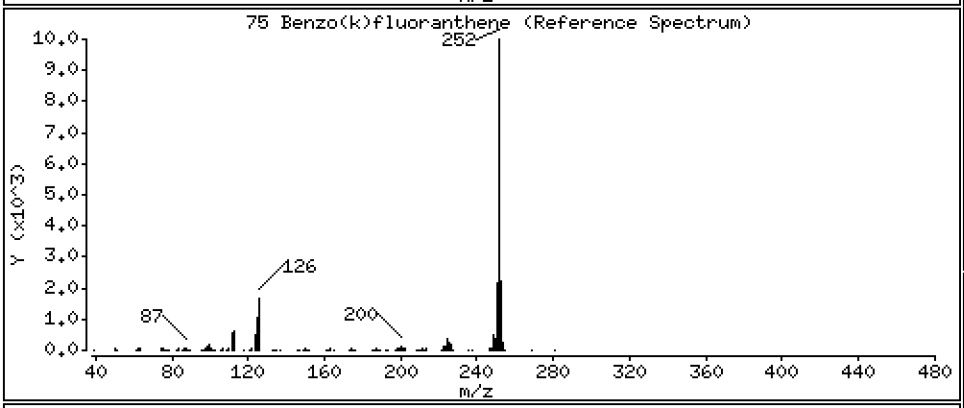
Concentration: 0.2132 ug/mL

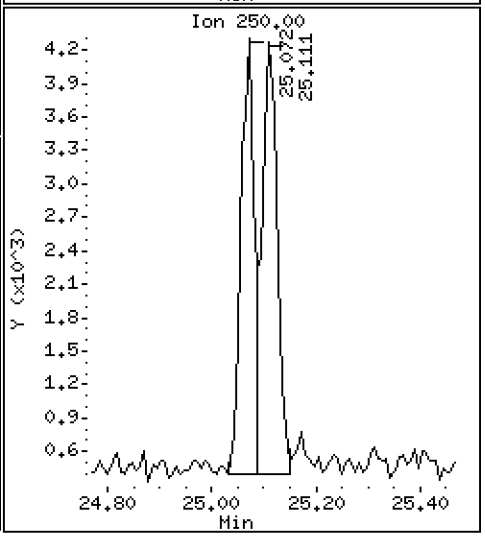


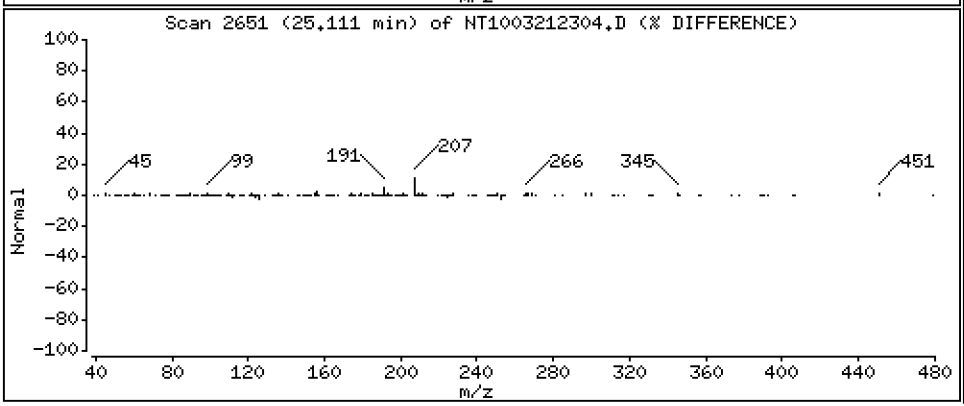












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

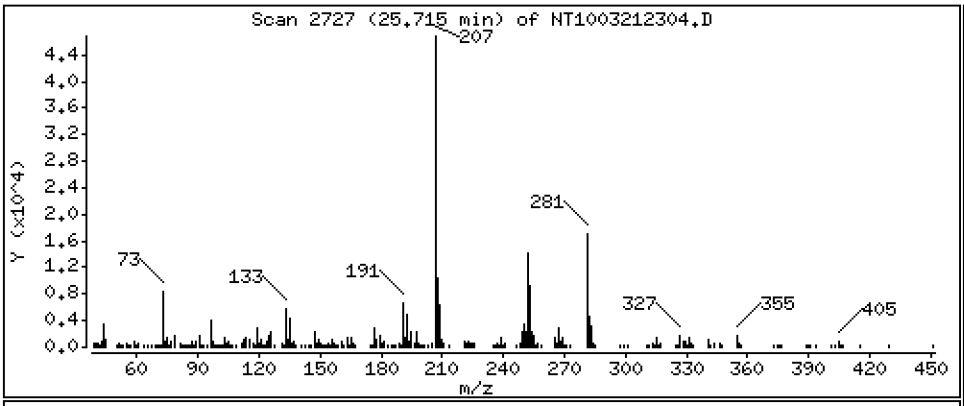
Operator: VTS

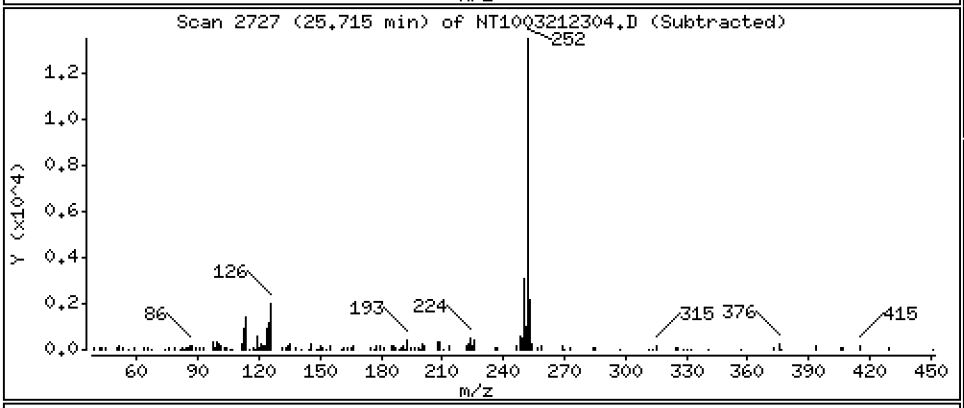
Column phase: ZB-5msi

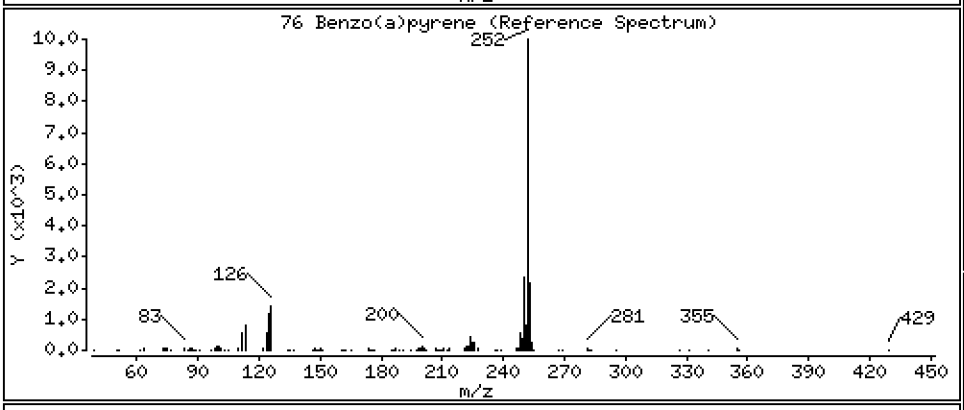
Column diameter: 0.25

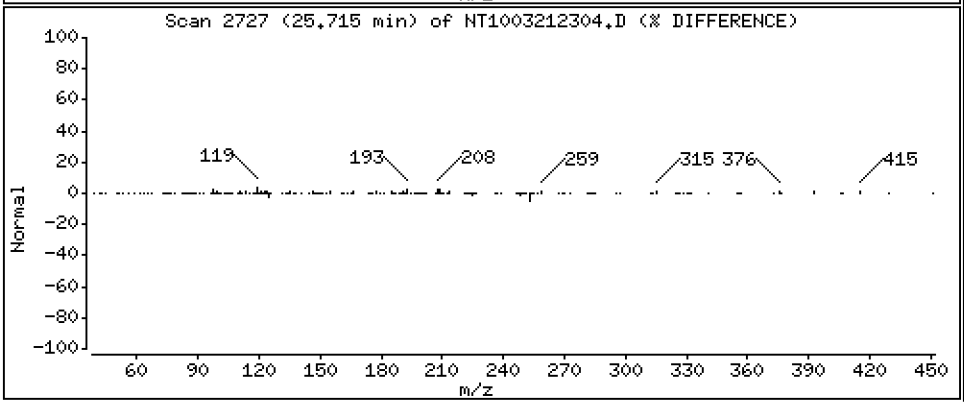
76 Benzo(a)pyrene

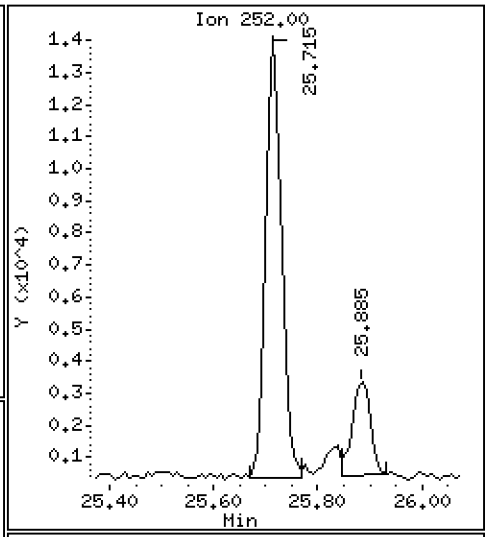
Concentration: 0.1901 ug/mL

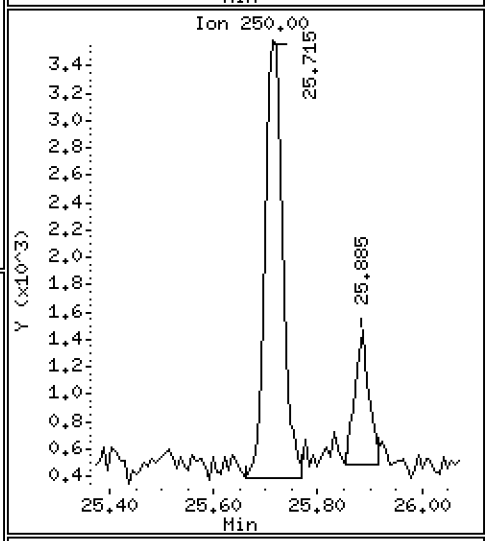


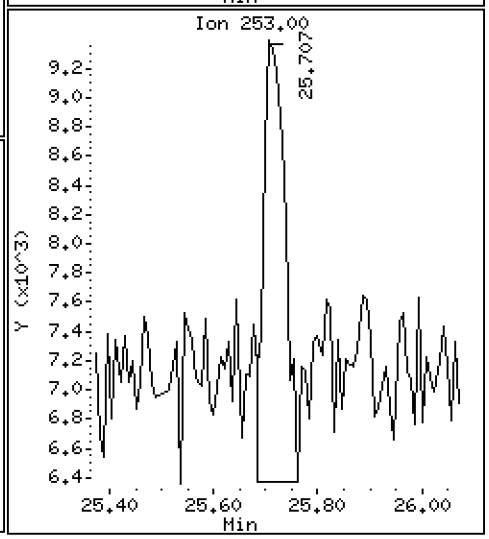












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212304.D

Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

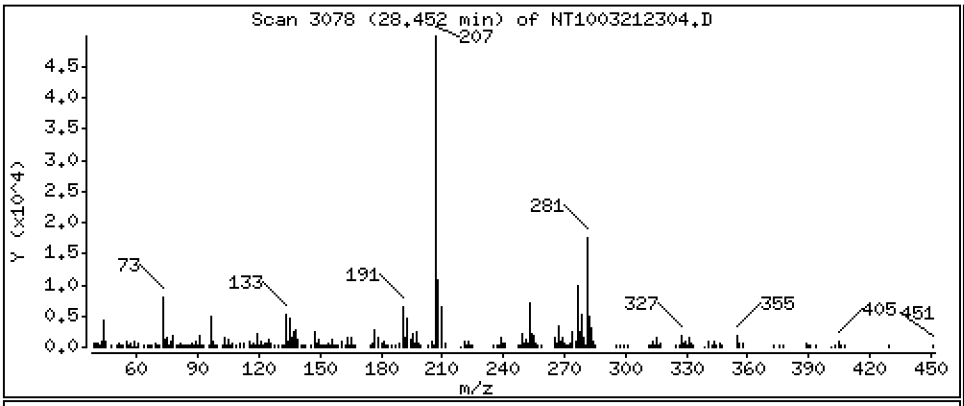
Operator: VTS

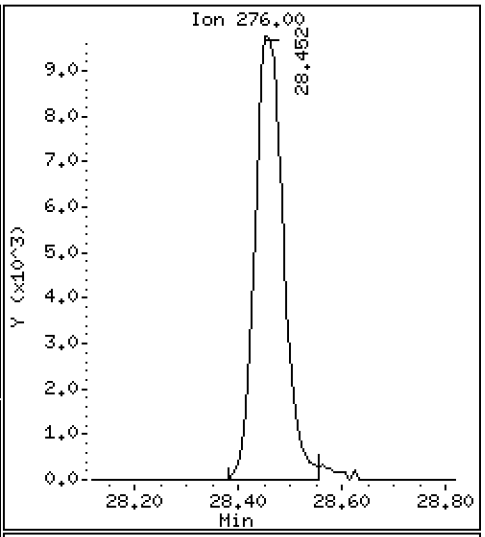
Column phase: ZB-5msi

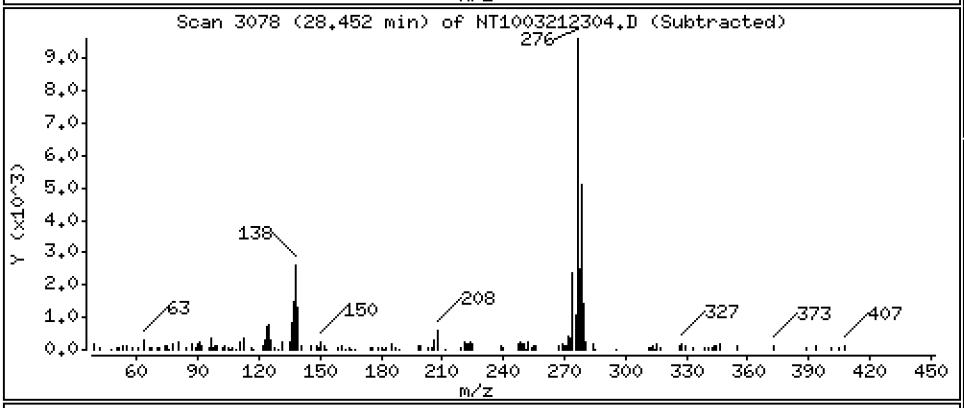
Column diameter: 0.25

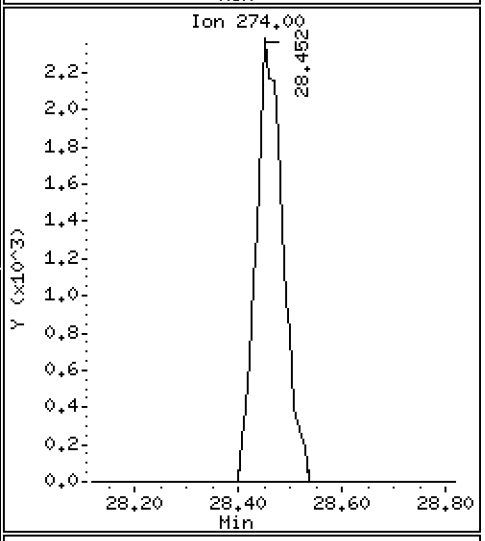
78 Indeno(1,2,3-cd)pyrene

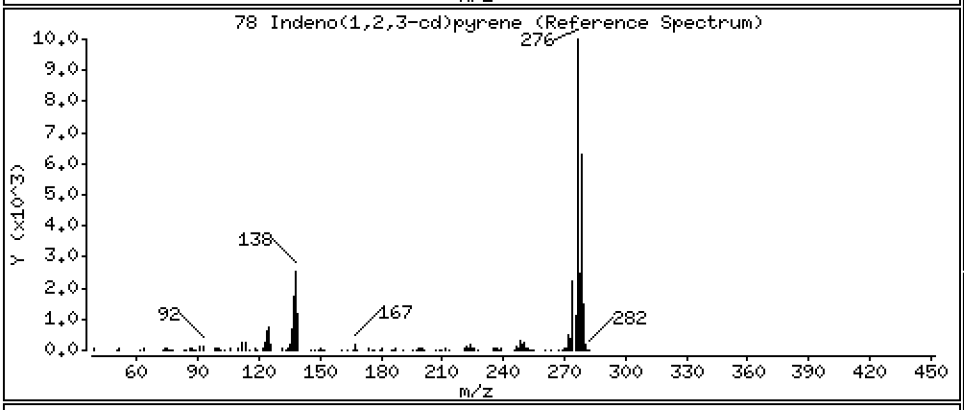
Concentration: 0.1952 ug/mL

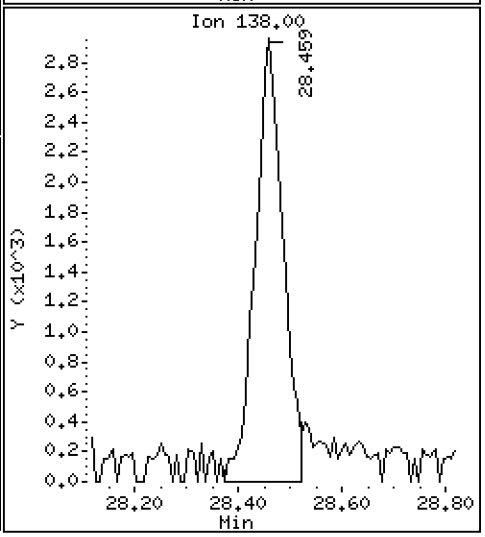


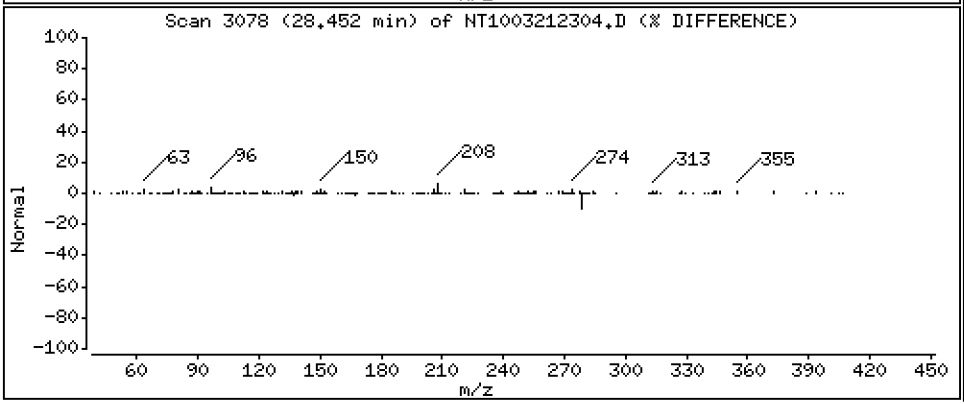












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212304.D

Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

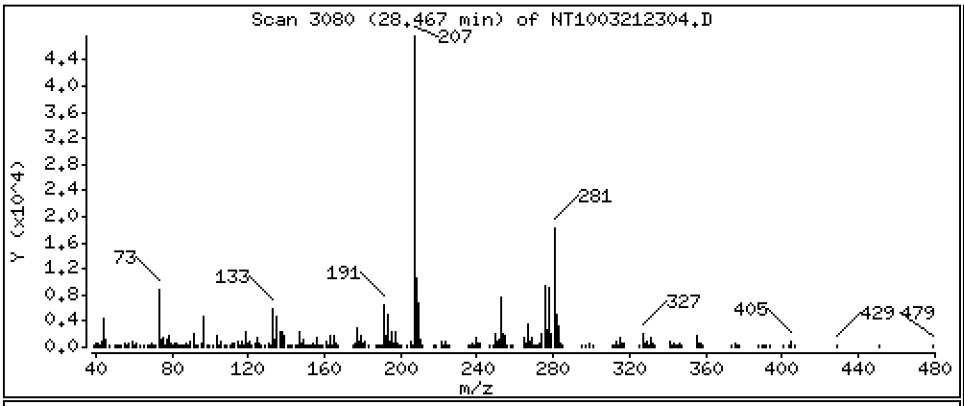
Operator: VTS

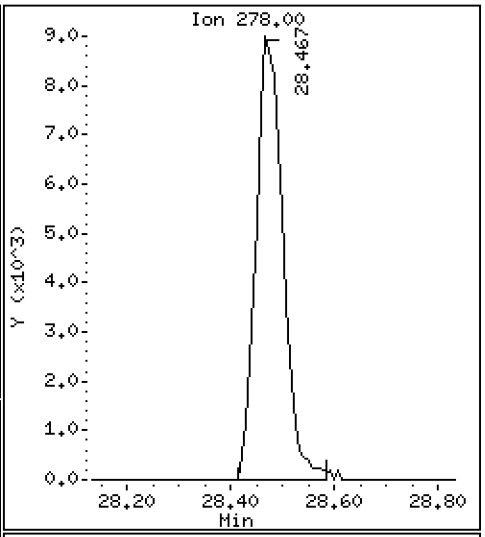
Column phase: ZB-5msi

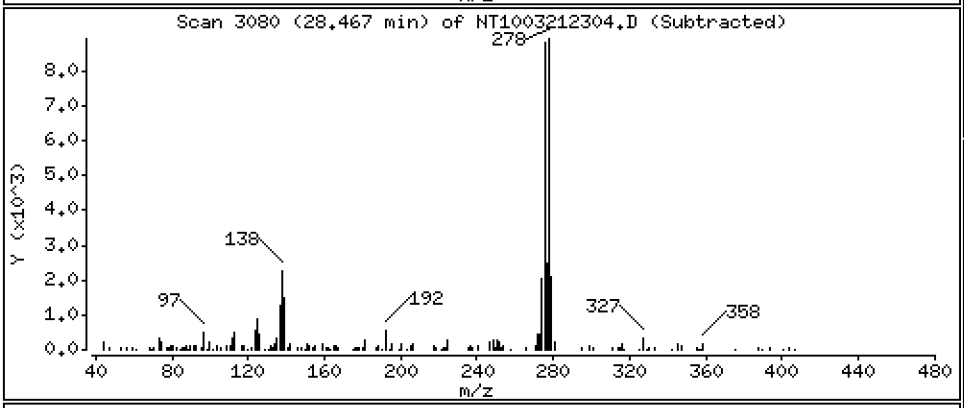
Column diameter: 0.25

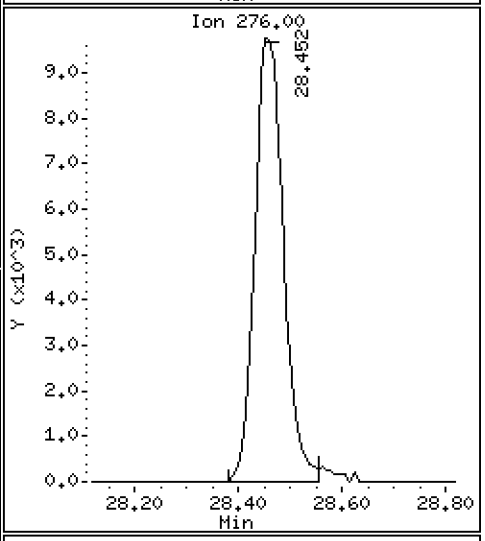
79 Dibenzo(a,h)anthracene

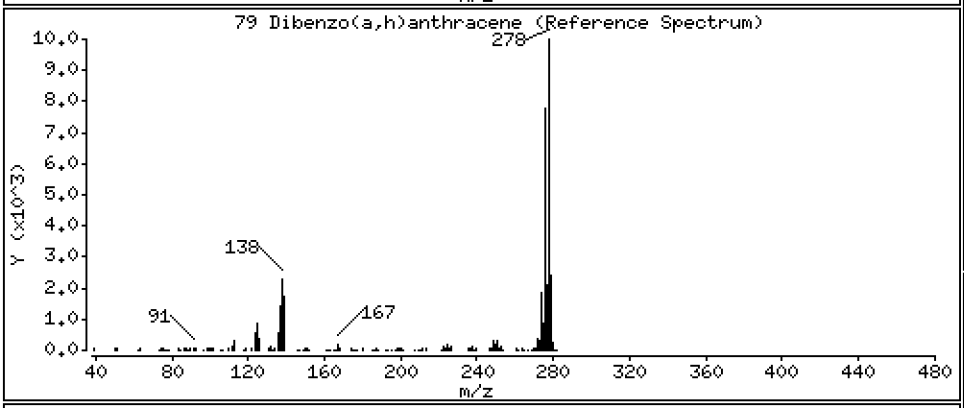
Concentration: 0.2040 ug/mL

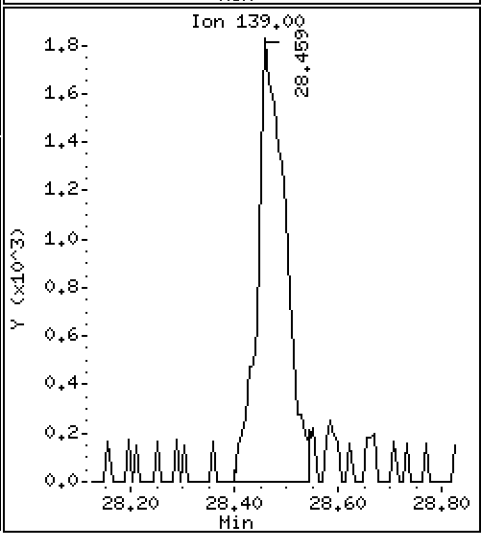


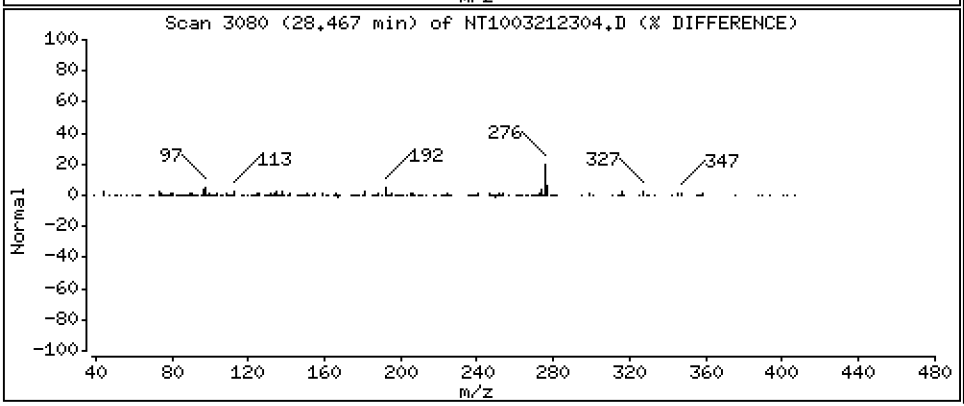












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

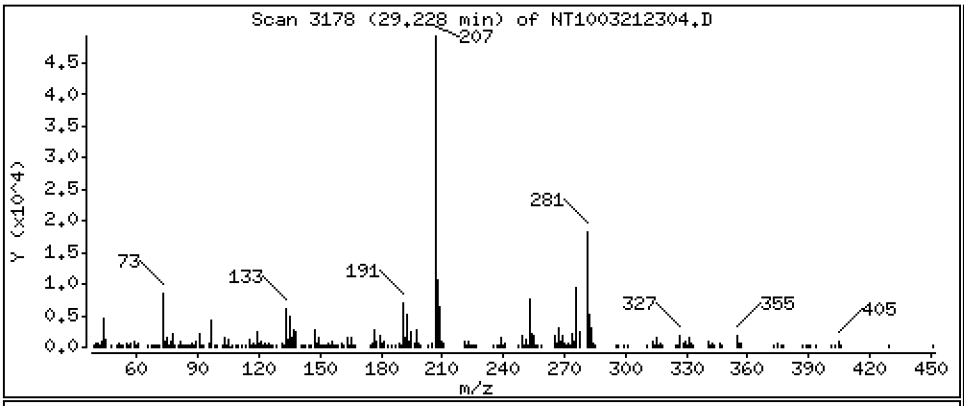
Operator: VTS

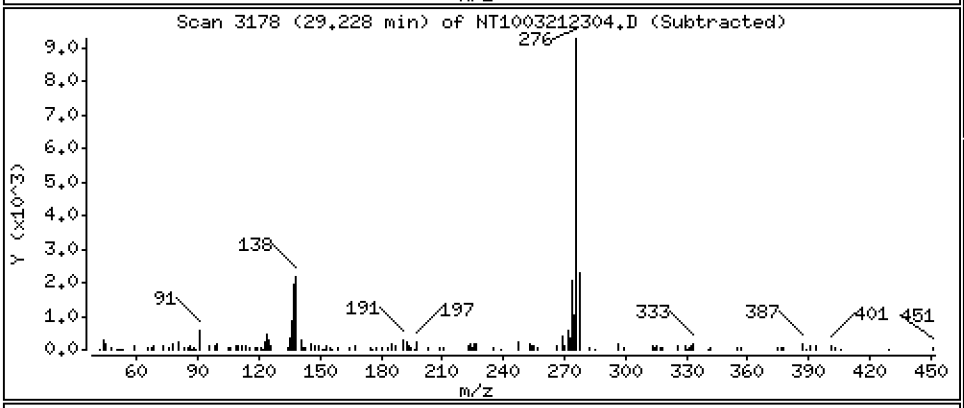
Column phase: ZB-5msi

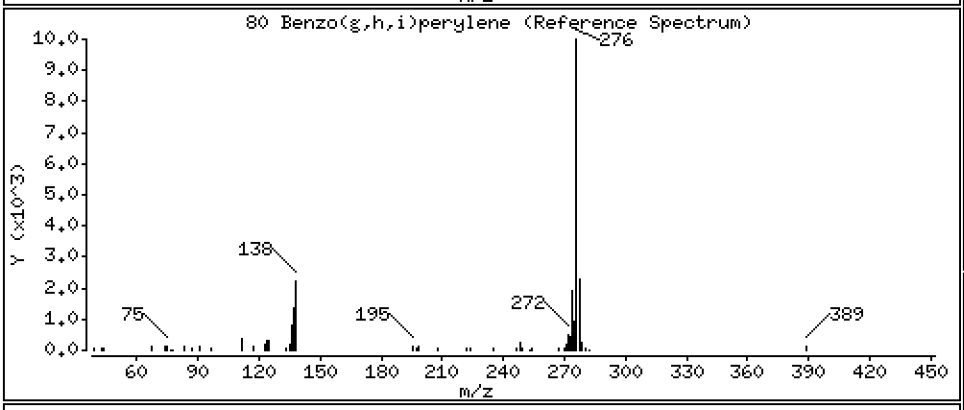
Column diameter: 0.25

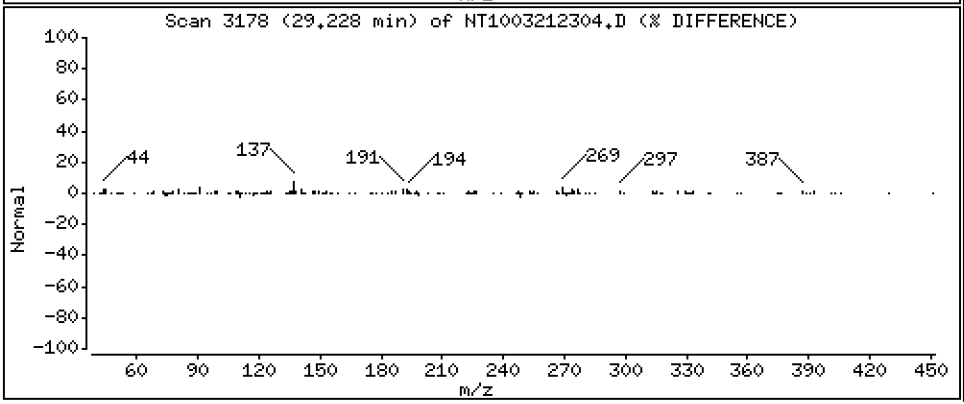
80 Benzo(g,h,i)perylene

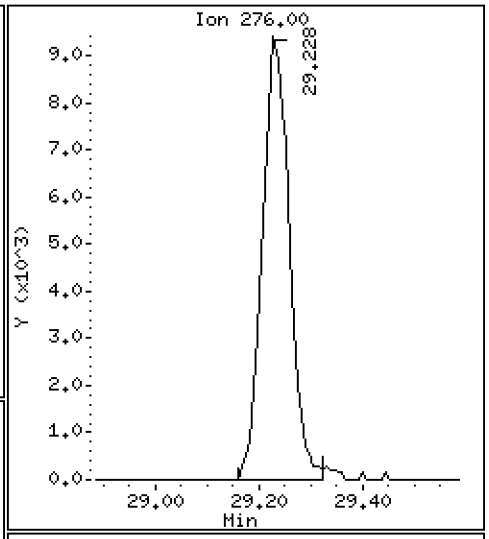
Concentration: 0.2040 ug/mL

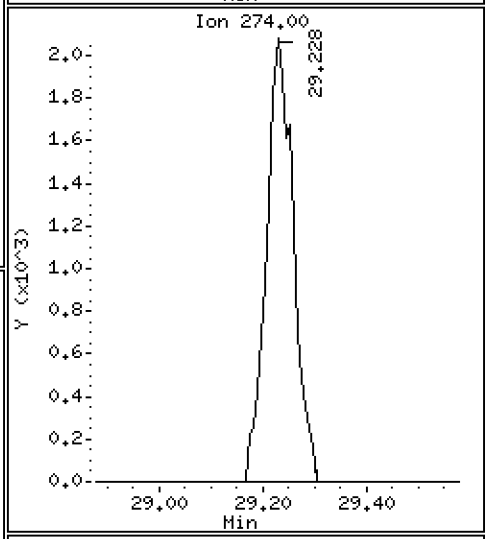


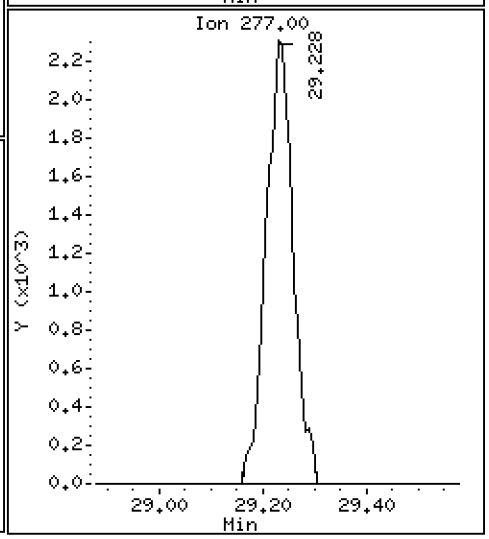












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

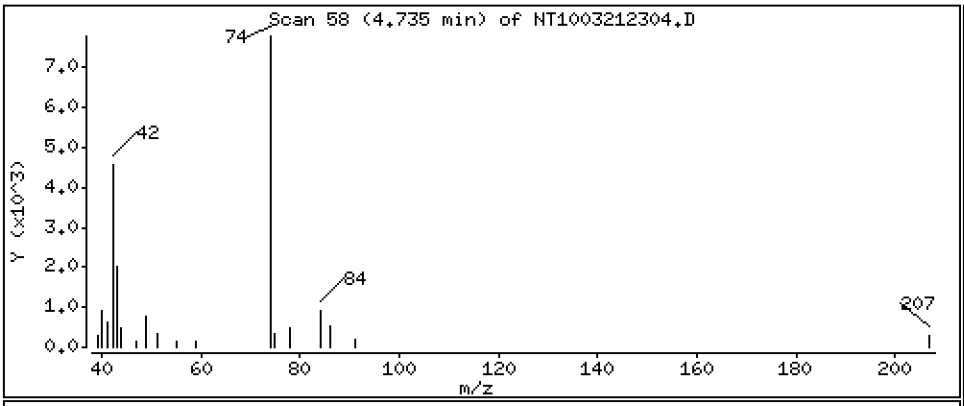
Operator: VTS

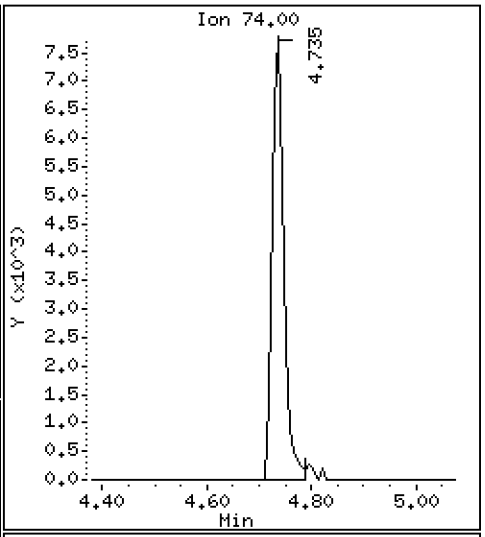
Column phase: ZB-5msi

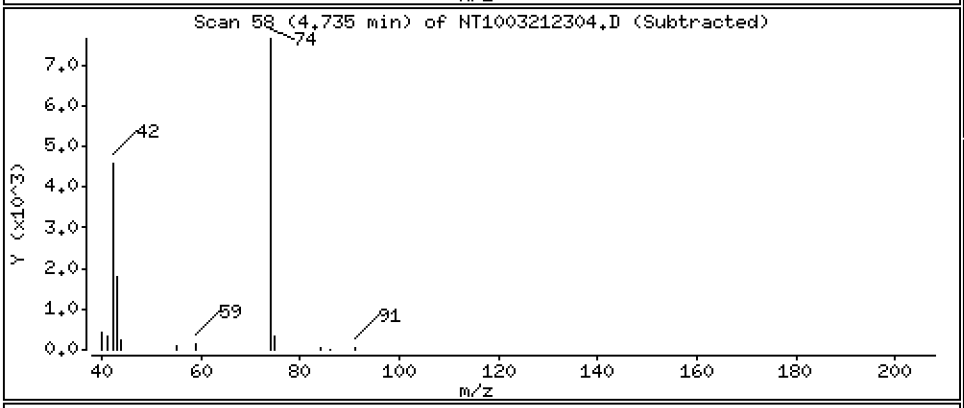
Column diameter: 0.25

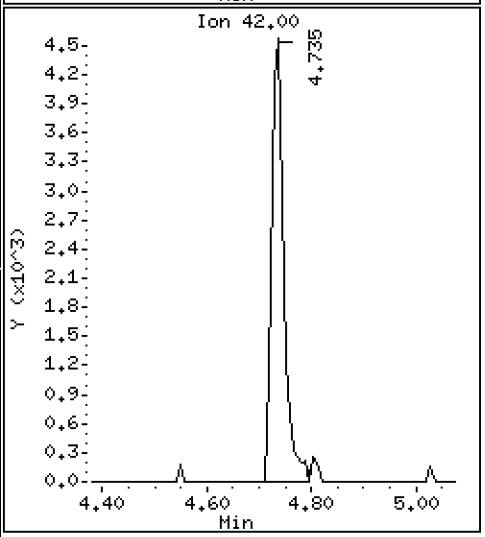
90 N-Nitrosodimethylamine

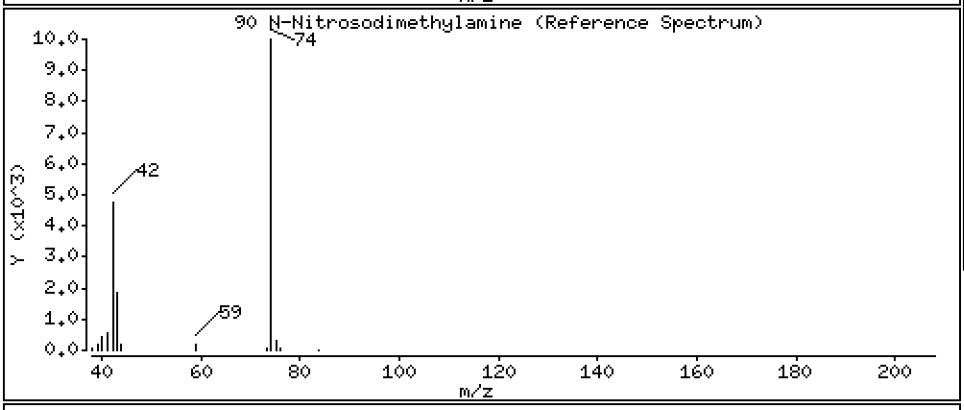
Concentration: 0.3883 ug/mL

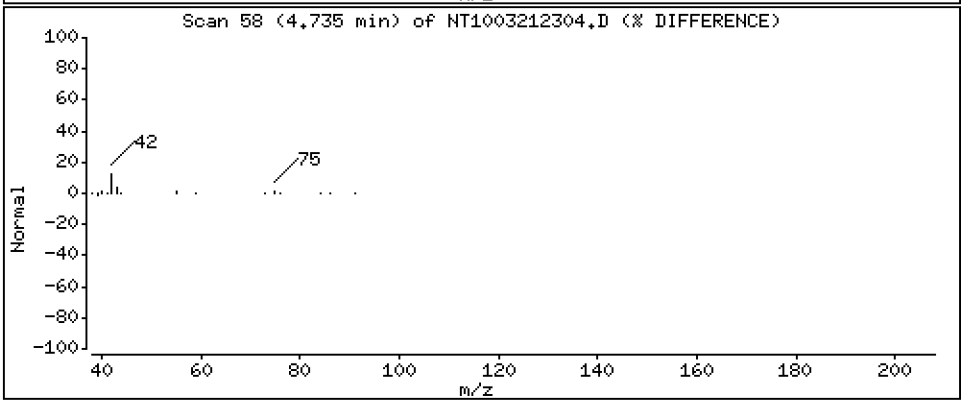












Date : 21-MAR-2023 19:04

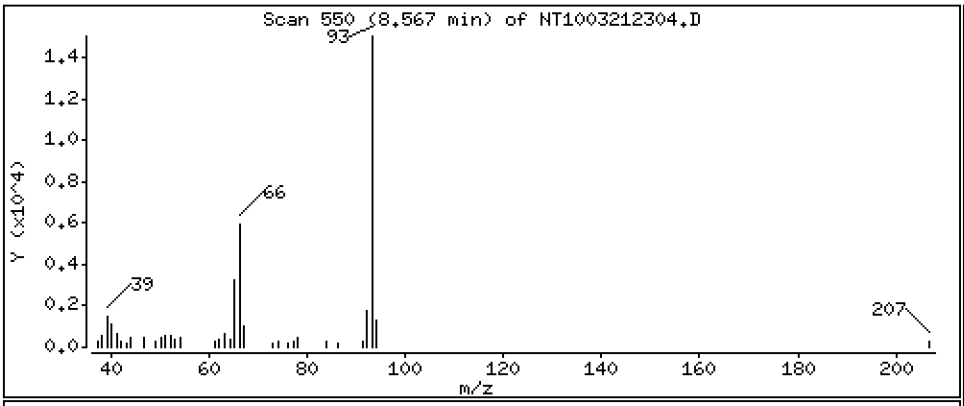
Client ID: Instrument: nt10.i

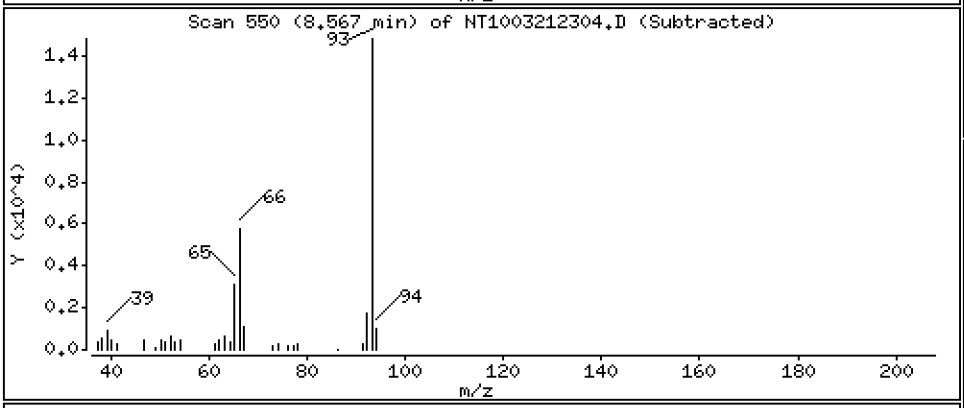
Sample Info: SLC0451-LCV1

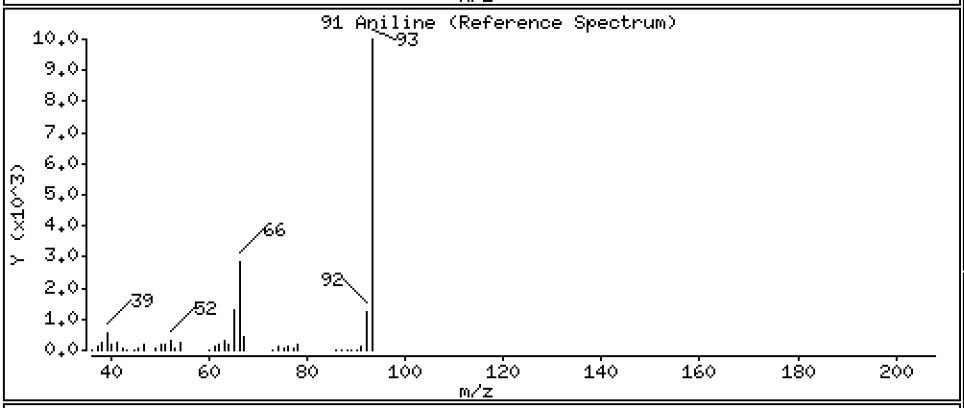
Operator: VTS

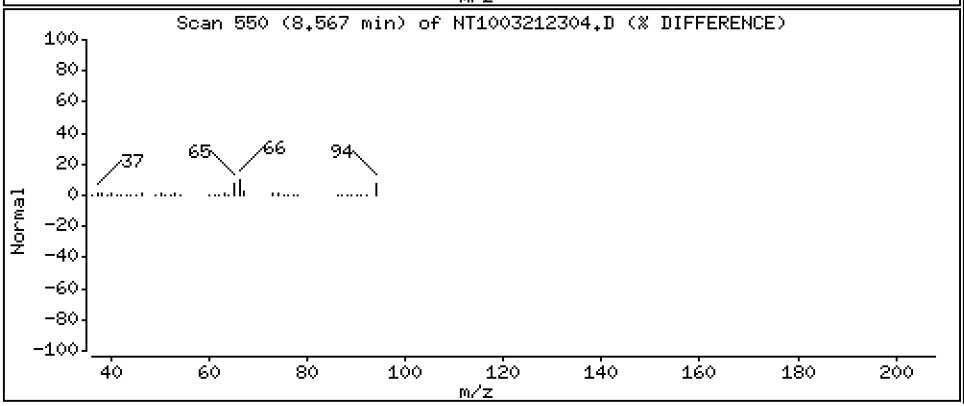
Column phase: ZB-5msi Column diameter: 0.25

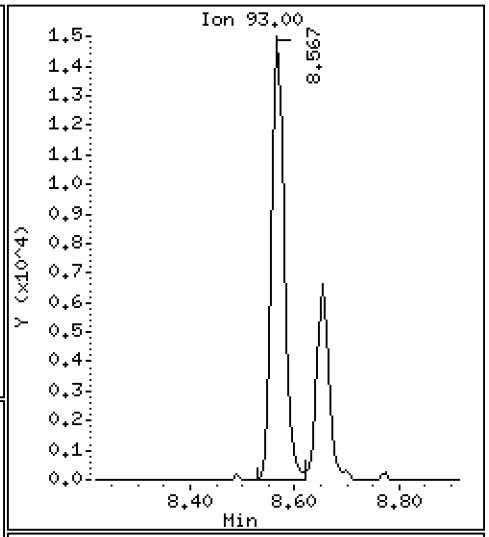
91 Aniline Concentration: 0.3619 ug/mL

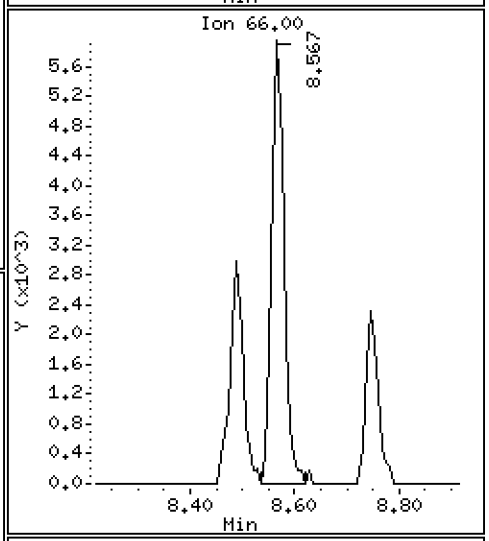


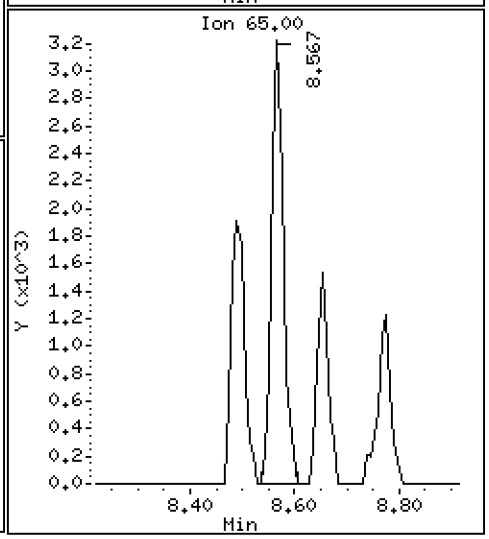












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

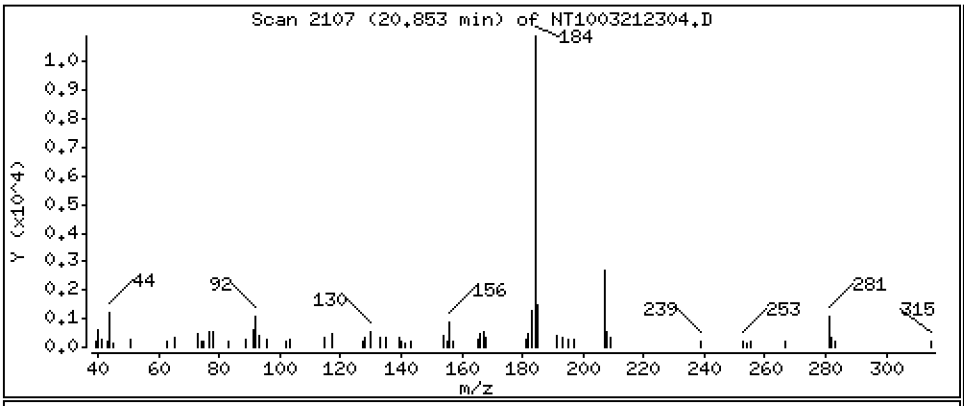
Operator: VTS

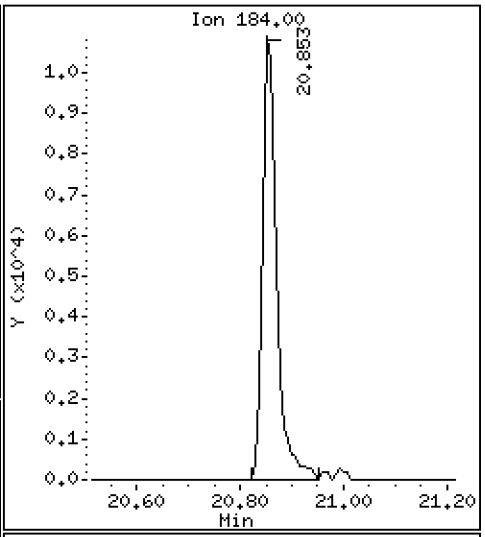
Column phase: ZB-5msi

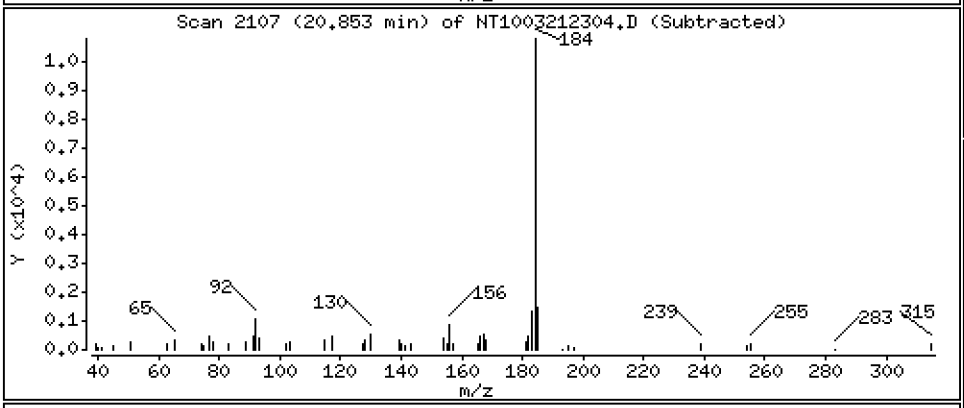
Column diameter: 0.25

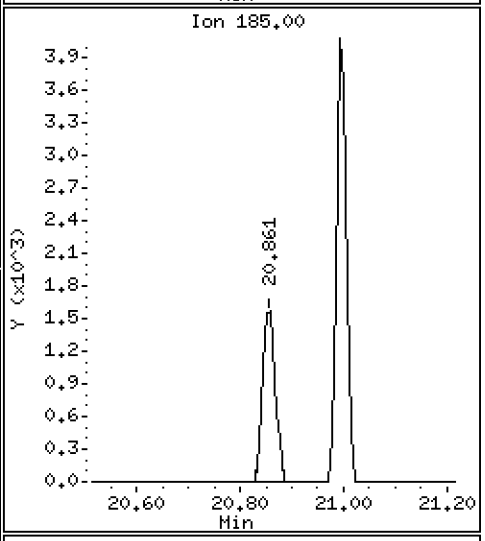
93 Benzidine

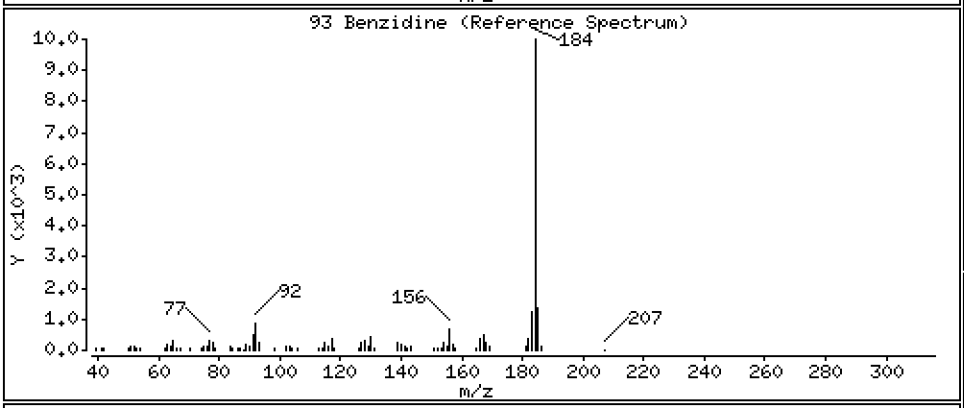
Concentration: 0.2572 ug/mL

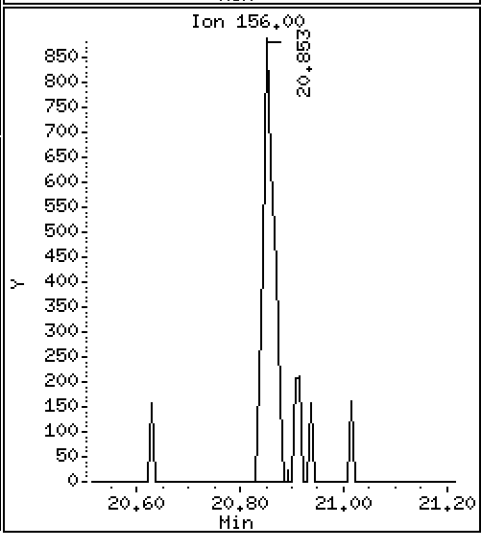


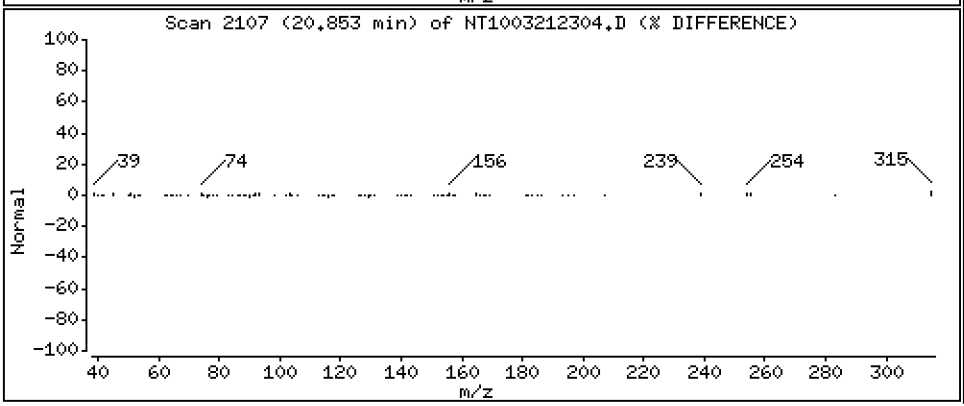












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212304.D

Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

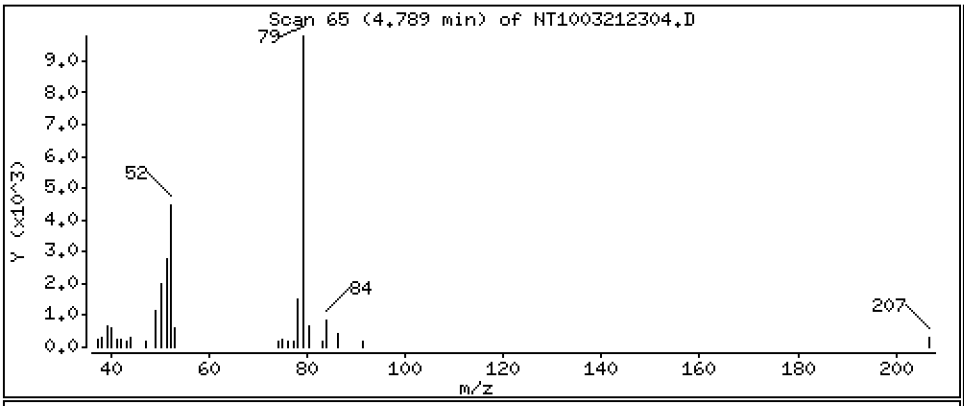
Operator: VTS

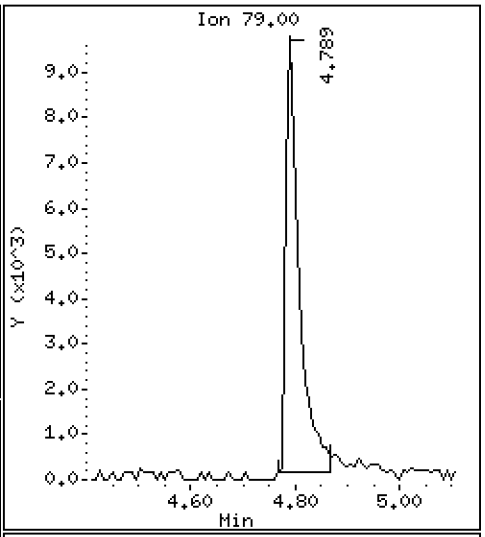
Column phase: ZB-5msi

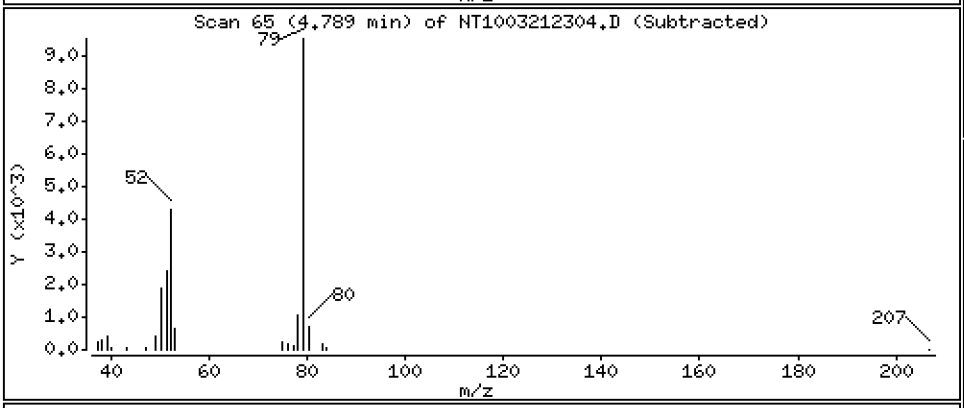
Column diameter: 0.25

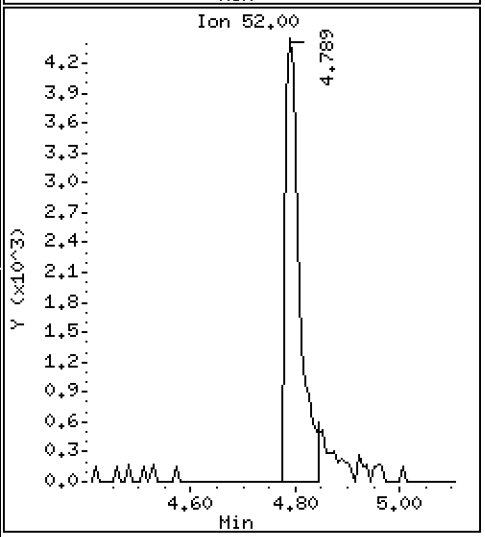
103 Pyridine

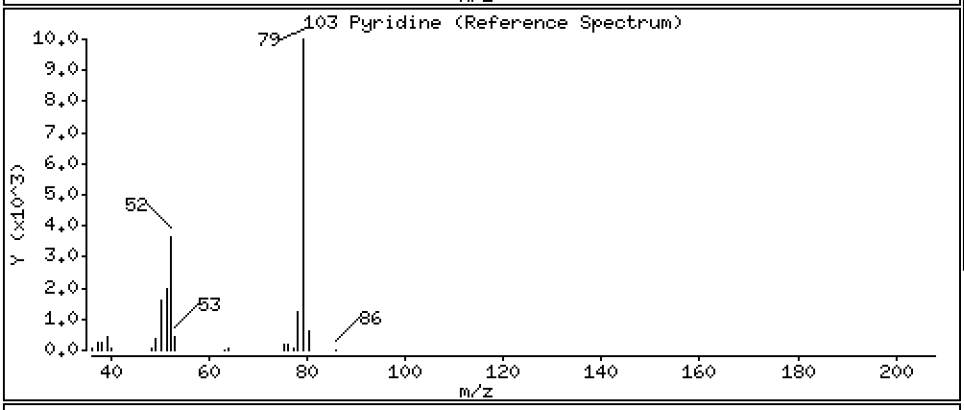
Concentration: 0.3859 ug/mL

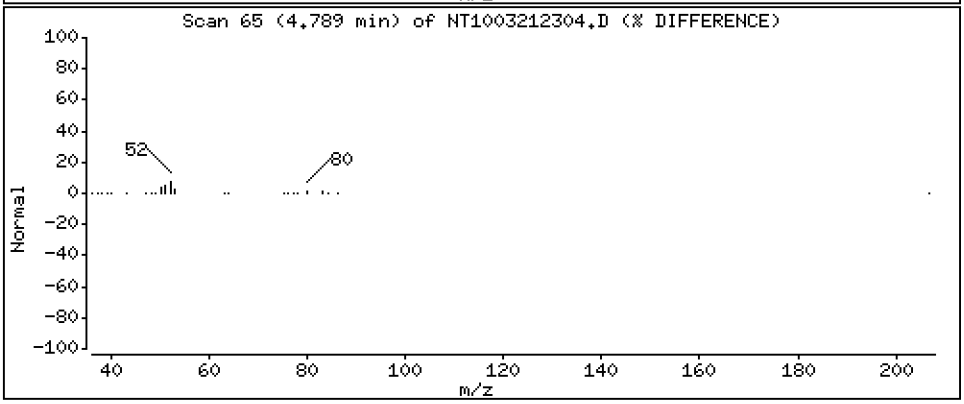












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

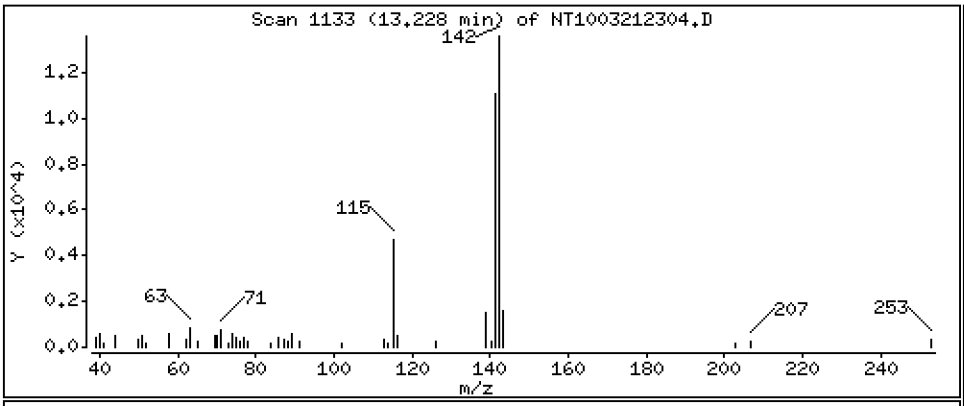
Operator: VTS

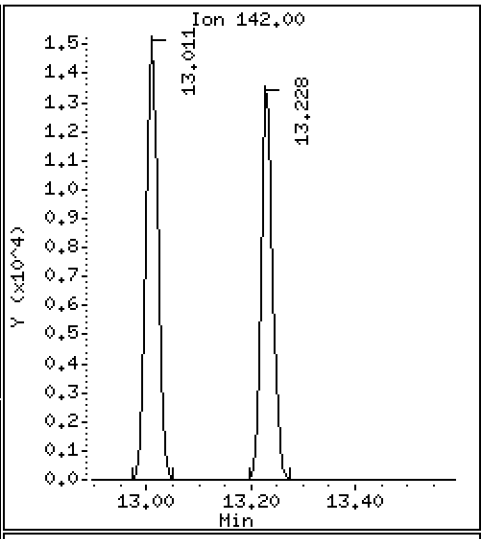
Column phase: ZB-5msi

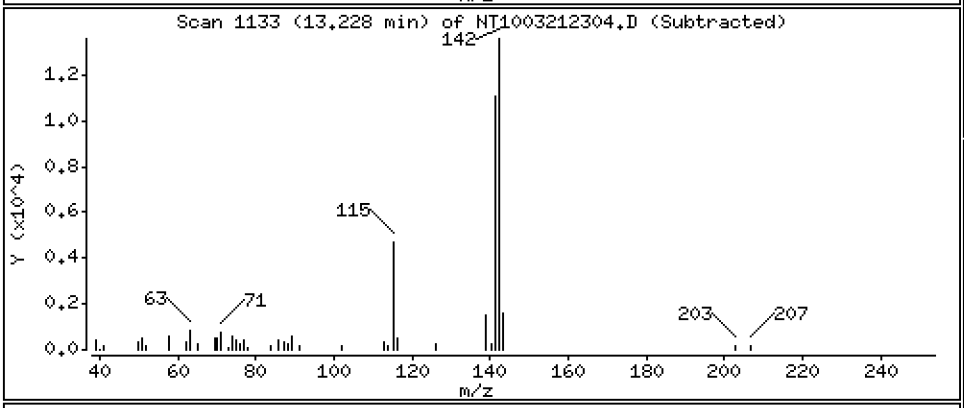
Column diameter: 0.25

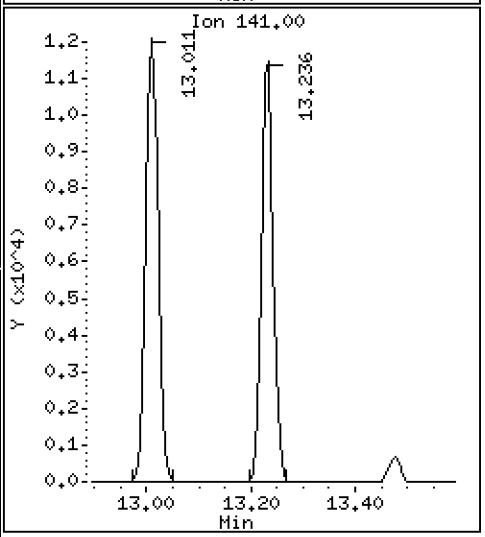
105 1-methylnaphthalene

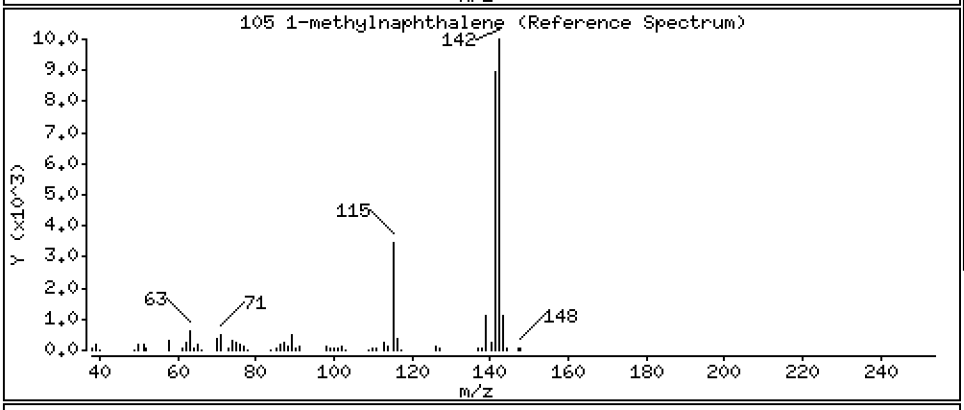
Concentration: 0.2099 ug/mL

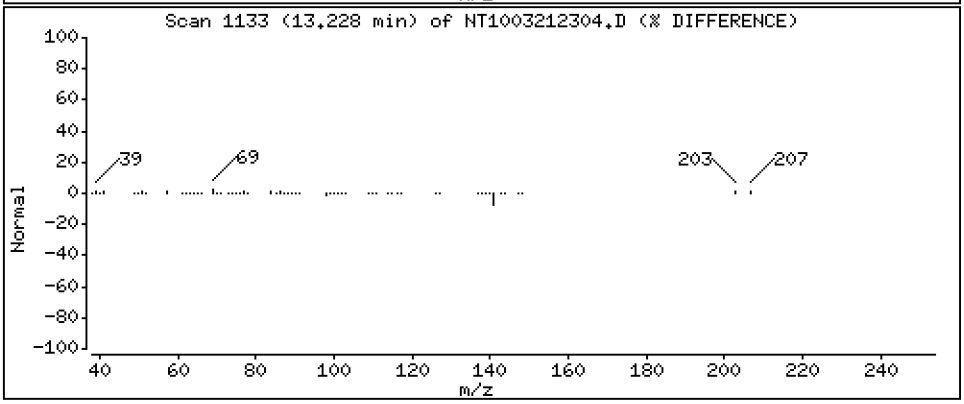












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

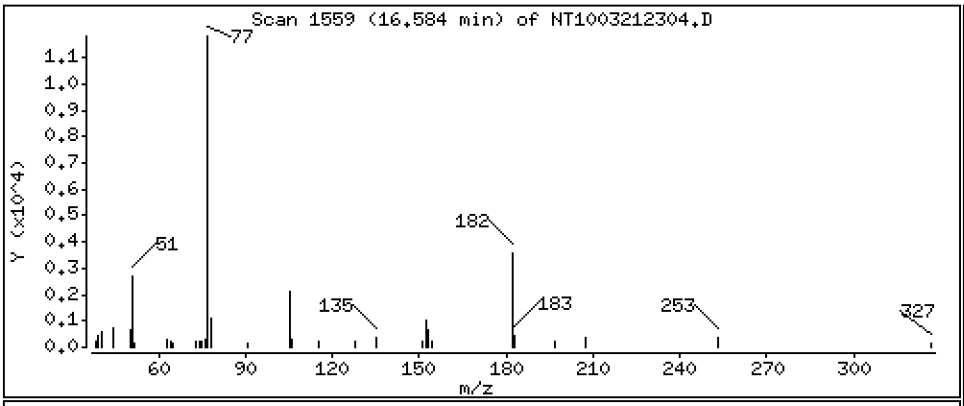
Operator: VTS

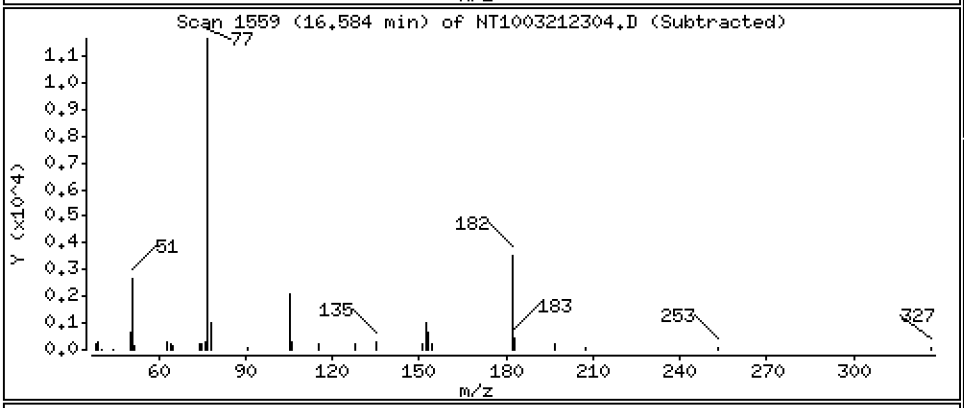
Column phase: ZB-5msi

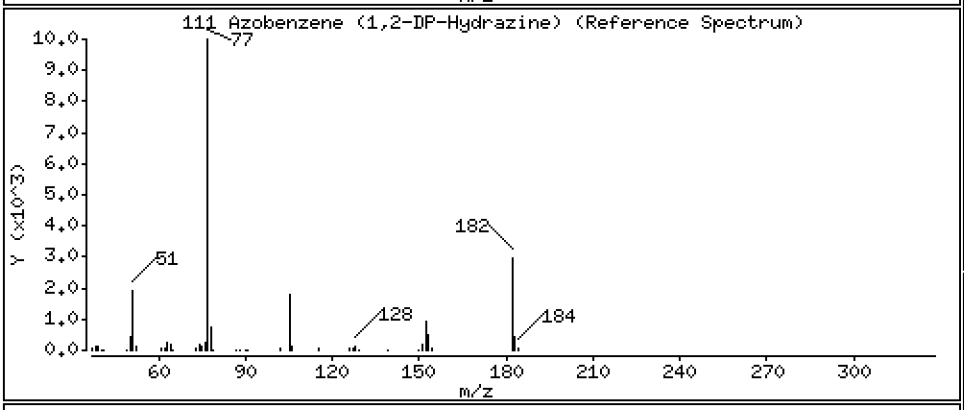
Column diameter: 0.25

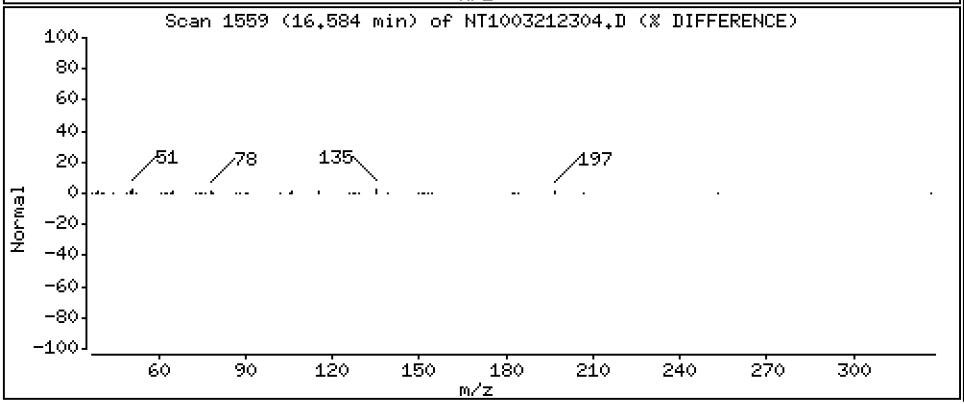
111 Azobenzene (1,2-DP-Hydrazine)

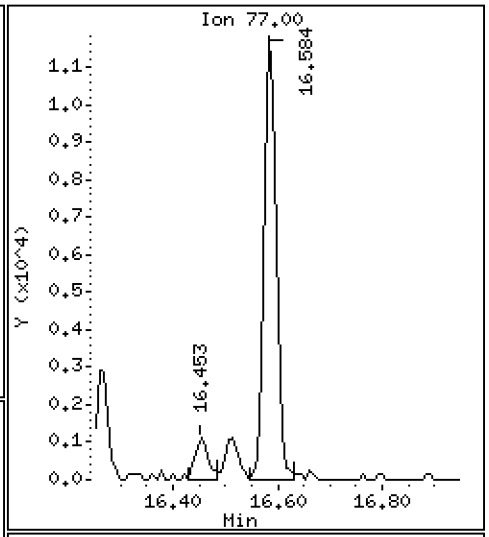
Concentration: 0.1726 ug/mL

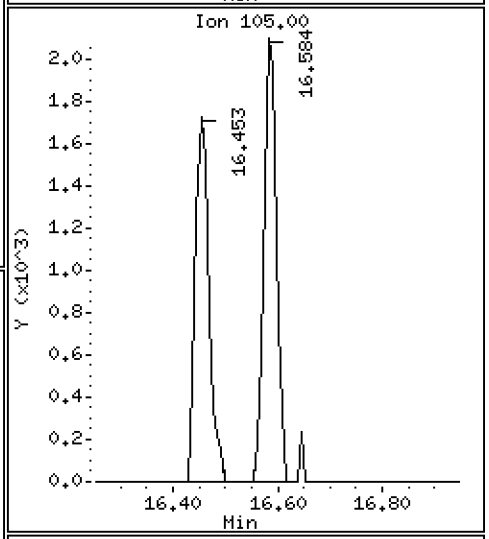


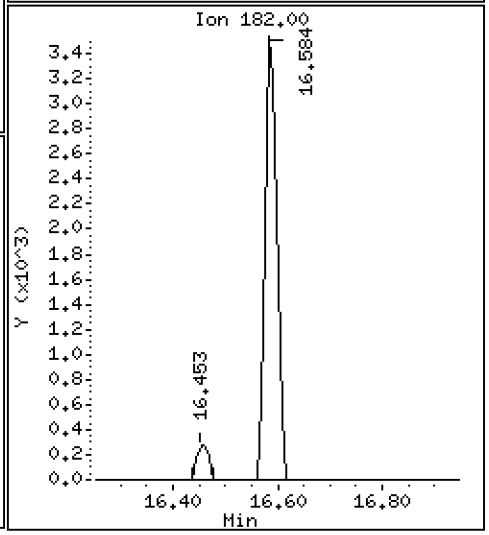












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

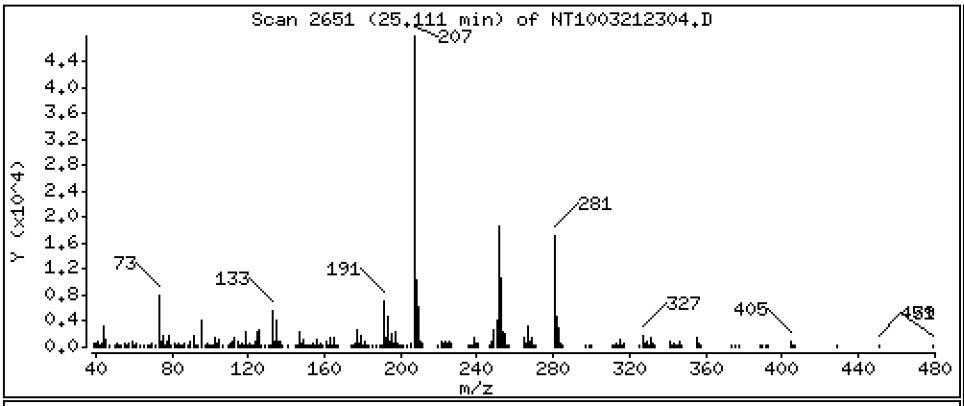
Operator: VTS

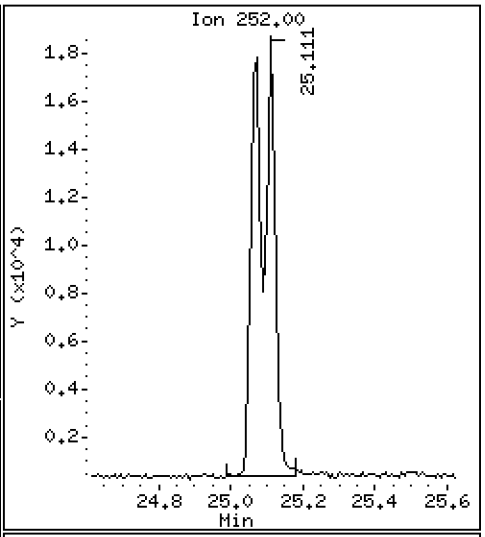
Column phase: ZB-5msi

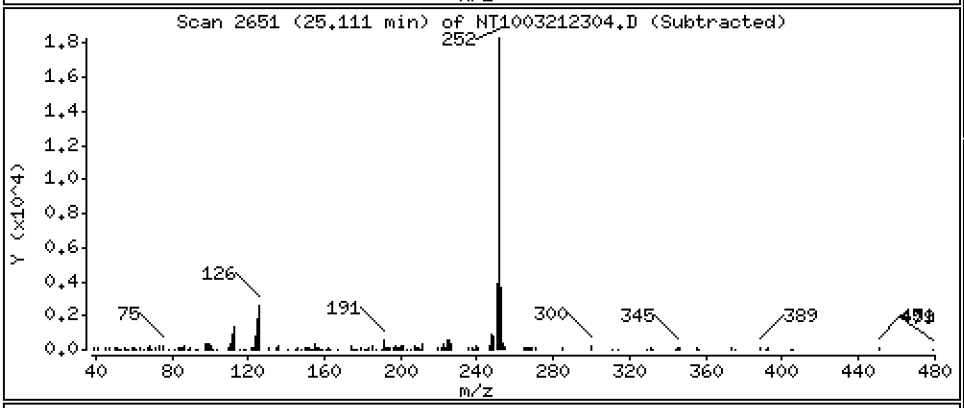
Column diameter: 0.25

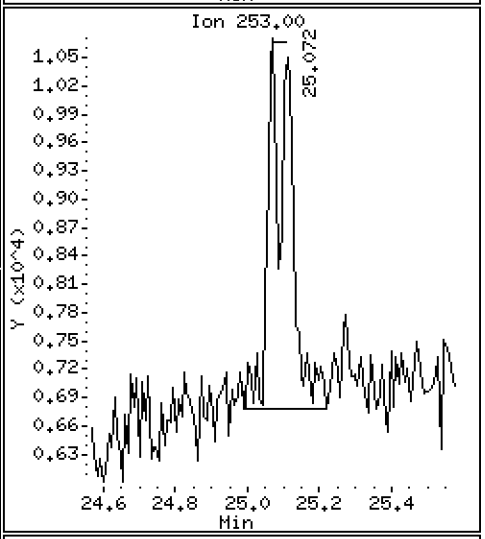
187 Total Benzofluoranthenes

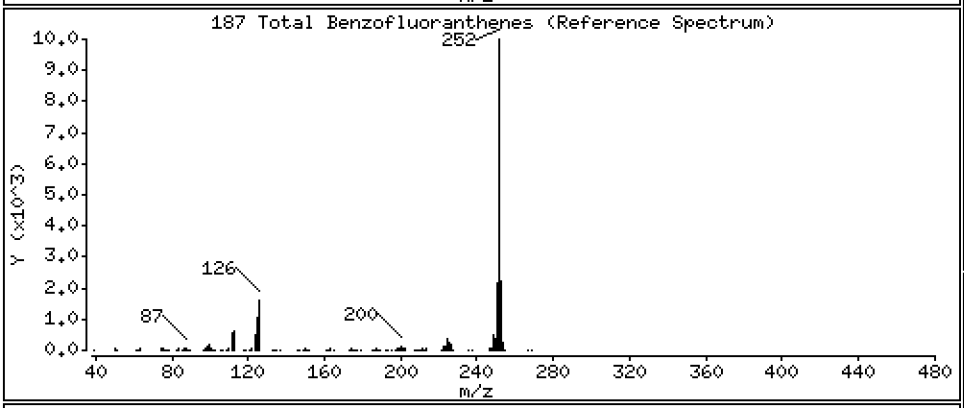
Concentration: 0.4086 ug/mL

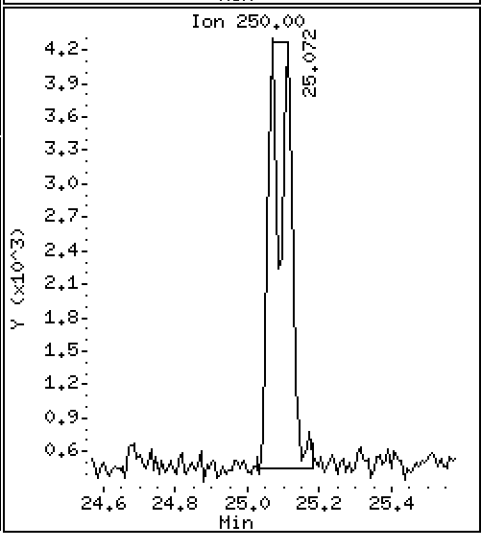


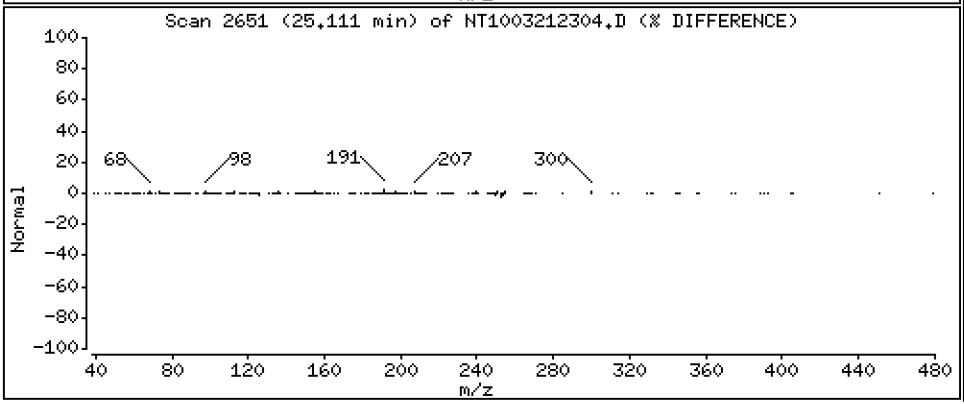












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

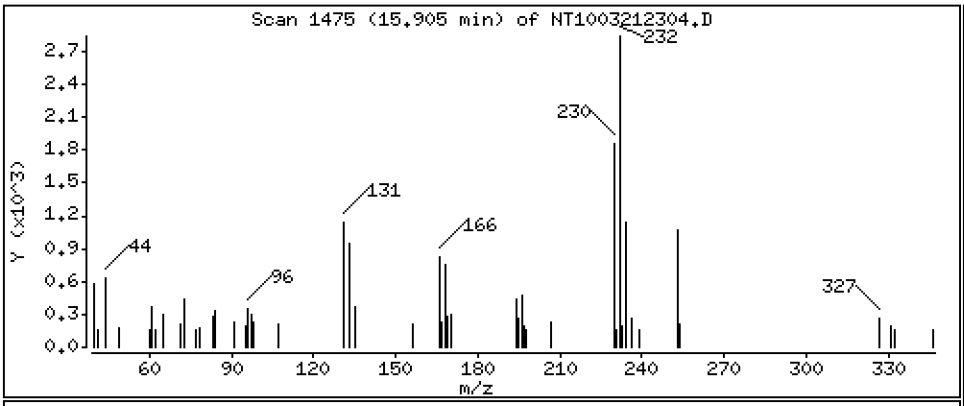
Operator: VTS

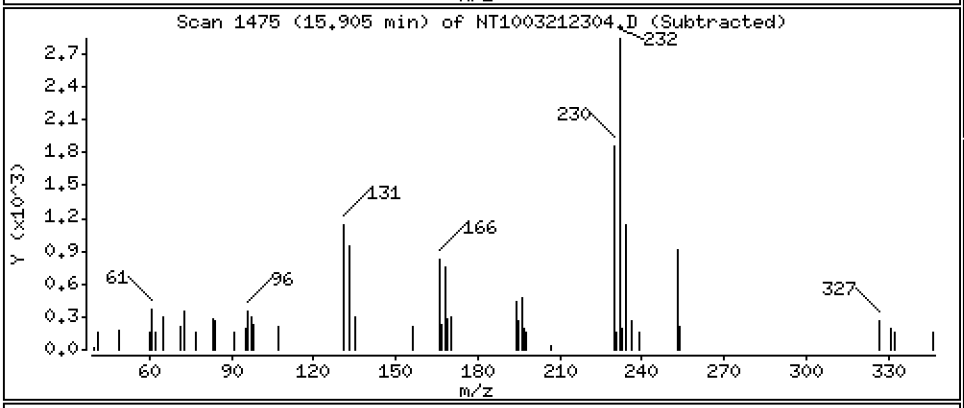
Column phase: ZB-5msi

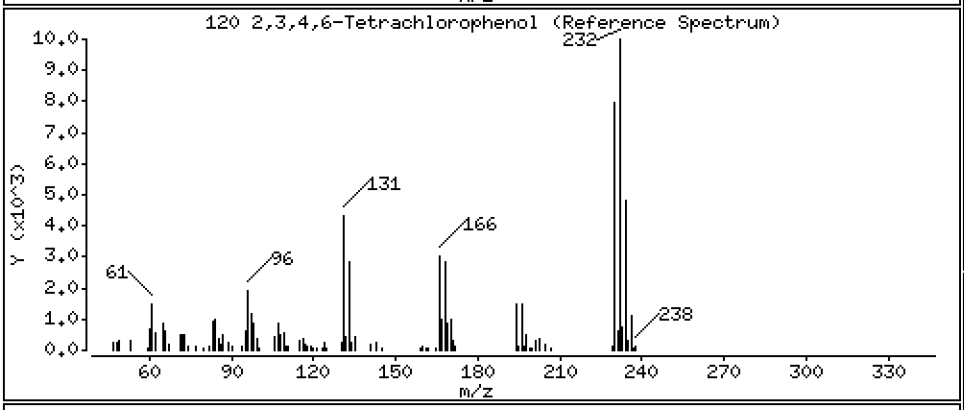
Column diameter: 0.25

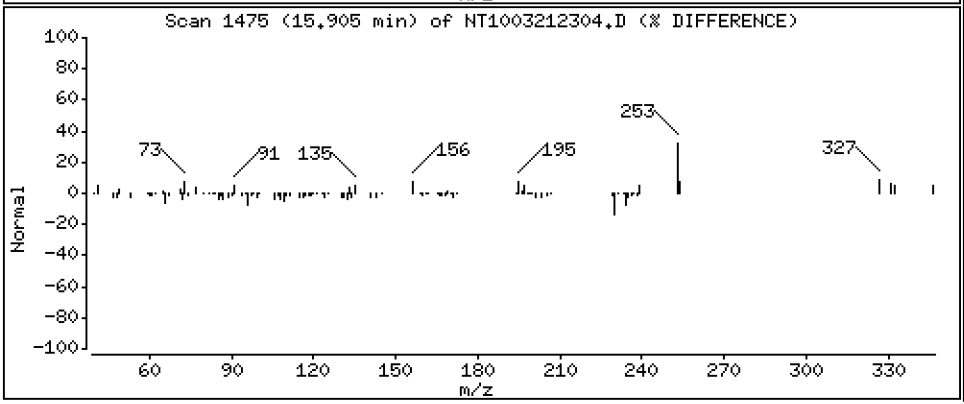
120 2,3,4,6-Tetrachlorophenol

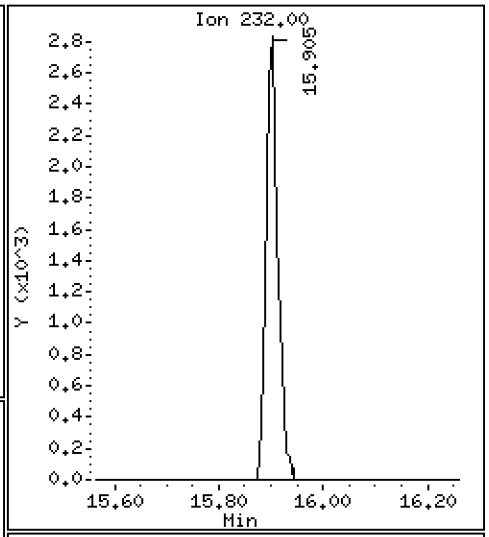
Concentration: 0.1454 ug/mL

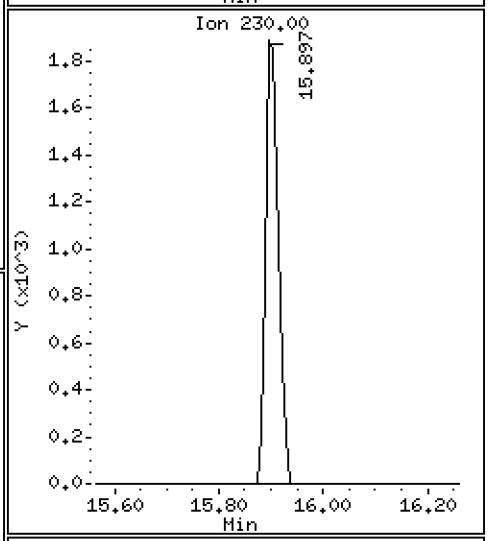


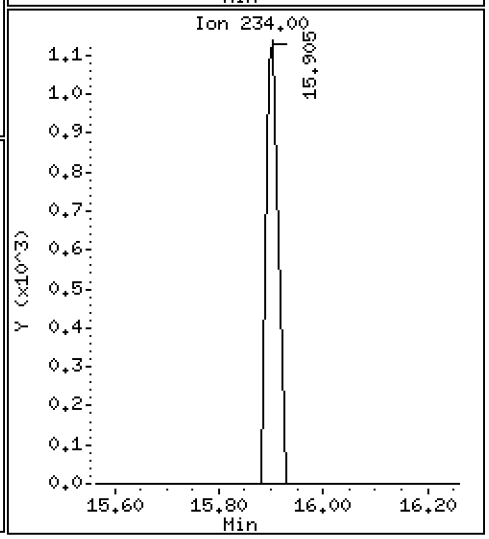












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

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Lab Smp Id: SLC0451-LCV1
Inj Date : 21-MAR-2023 19:04
Operator : VTS Inst ID: nt10.i
Smp Info : SLC0451-LCV1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230321.b\ABN.m
Meth Date : 29-Mar-2023 06:54 van Quant Type: ISTD
Cal Date : 16-MAR-2023 00:22 Cal File: NT10031508.D
Als bottle: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

							CONCENTRATIONS		
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)	
$	1 2-Fluorophenol	112	6.890	6.889	(0.728)	13369	0.28096	0.2810	
$	2 Phenol-d5	99	8.466	8.473	(0.894)	16402	0.26276	0.2628	
	3 Phenol	94	8.489	8.497	(0.897)	12296	0.18956	0.1896	
$	5 2-Chlorophenol-d4	132	8.744	8.744	(0.924)	14955	0.28056	0.2806	
	4 Bis(2-Chloroethyl)ether	93	8.651	8.659	(0.914)	10397	0.21611	0.2161	
	6 2-Chlorophenol	128	8.775	8.775	(0.927)	10424	0.18777	0.1878	
	7 1,3-Dichlorobenzene	146	9.038	9.045	(0.955)	12068	0.20562	0.2056	
*	8 1,4-Dichlorobenzene-d4	152	9.108	9.108	(1.000)	157344	4.00000		(H)
	9 1,4-Dichlorobenzene	146	9.139	9.139	(0.966)	11951	0.21079	0.2108	
$	10 1,2-Dichlorobenzene-d4	152	9.465	9.465	(1.000)	8160	0.21317	0.2132	
	12 1,2-Dichlorobenzene	146	9.496	9.496	(1.003)	11636	0.20854	0.2085	
	11 Benzyl alcohol	108	9.380	9.379	(0.991)	4510	0.14813	0.1481	
	14 2,2'-oxybis(1-Chloropropane)	121	9.675	9.682	(1.022)	3236	0.19748	0.1975	
	13 2-Methylphenol	108	9.605	9.604	(1.015)	8566	0.18116	0.1812	
	17 Hexachloroethane	117	10.078	10.086	(1.065)	4104	0.17642	0.1764	
	16 N-Nitroso-di-n-propylamine	70	9.931	9.938	(1.049)	6214	0.16643	0.1664	
	15 4-Methylphenol	108	9.869	9.876	(1.043)	8249	0.16557	0.1656	
$	18 Nitrobenzene-d5	82	10.202	10.202	(0.881)	9834	0.17373	0.1737	
	19 Nitrobenzene	77	10.233	10.241	(0.884)	10094	0.18171	0.1817	
	20 Isophorone	82	10.676	10.683	(0.922)	11110	0.15634	0.1563	
	21 2-Nitrophenol	139	10.859	10.858	(0.938)	4392	0.16260	0.1626	
	22 2,4-Dimethylphenol	107	10.910	10.918	(0.942)	18277	0.35820	0.3582	
	23 Bis(2-Chloroethoxy)methane	93	11.105	11.113	(0.959)	9047	0.19059	0.1906	
	24 Benzoic acid	105	11.003	11.113	(0.950)	8991	0.31721	0.3172	(H)
	25 2,4-Dichlorophenol	162	11.308	11.316	(0.977)	14802	0.36252	0.3625	
	26 1,2,4-Trichlorobenzene	180	11.495	11.502	(0.993)	10965	0.22877	0.2288	
*	27 Naphthalene-d8	136	11.580	11.587	(1.000)	560807	4.00000		
	28 Naphthalene	128	11.619	11.626	(1.003)	31272	0.21049	0.2105	
	29 4-Chloroaniline	127	11.750	11.757	(1.015)	19675	0.33947	0.3395	
	30 Hexachlorobutadiene	225	11.982	11.989	(1.035)	6181	0.22009	0.2201	
	31 4-Chloro-3-methylphenol	107	12.709	12.716	(1.097)	14179	0.32078	0.3208	
	32 2-Methylnaphthalene	142	13.011	13.018	(1.124)	22725	0.21196	0.2120	
	33 Hexachlorocyclopentadiene	237	13.475	13.483	(0.888)	7037	0.25212	0.2521	

		QUANT SIG					CONCENTRATIONS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
	34 2,4,6-Trichlorophenol	196	13.630	13.637	(0.898)	10270	0.34455	0.3445
	35 2,4,5-Trichlorophenol	196	13.700	13.707	(0.903)	10925	0.32986	0.3299
$	36 2-Fluorobiphenyl	172	13.785	13.800	(0.909)	24832	0.20815	0.2082
	37 2-Chloronaphthalene	162	14.002	14.009	(0.923)	19898	0.20599	0.2060
	38 2-Nitroaniline	65	14.257	14.272	(0.940)	7179	0.26458	0.2646
	39 Dimethylphthalate	163	14.683	14.698	(0.968)	19846	0.20257	0.2026
	40 Acenaphthylene	152	14.861	14.876	(0.980)	29586	0.19656	0.1966
	41 2,6-Dinitrotoluene	165	14.822	14.837	(0.977)	6985	0.33004	0.3300
*	42 Acenaphthene-d10	164	15.170	15.185	(1.000)	301582	4.00000	
	43 3-Nitroaniline	138	15.108	15.116	(0.996)	6584	0.27562	0.2756
	44 Acenaphthene	153	15.240	15.247	(1.005)	19141	0.20584	0.2058
	45 2,4-Dinitrophenol	184	15.317	15.324	(1.010)	2607	0.20405	0.2041(M)
	46 Dibenzofuran	168	15.564	15.572	(1.026)	27812	0.20282	0.2028
	47 4-Nitrophenol	109	15.425	15.432	(1.017)	2730	0.18170	0.1817(M)
	48 2,4-Dinitrotoluene	165	15.626	15.641	(1.030)	8760	0.27363	0.2736
	50 Diethylphthalate	149	16.129	16.144	(1.063)	18337	0.19076	0.1908
	49 Fluorene	166	16.276	16.283	(1.073)	22066	0.20454	0.2045
	51 4-Chlorophenyl-phenylether	204	16.268	16.275	(1.072)	10874	0.21197	0.2120
	52 4-Nitroaniline	138	16.360	16.375	(1.078)	5621	0.26111	0.2611
	53 4,6-Dinitro-2-methylphenol	198	16.453	16.468	(0.904)	6542	0.39147	0.3915
	54 N-Nitrosodiphenylamine	169	16.515	16.522	(0.908)	14275	0.19313	0.1931
$	55 2,4,6-Tribromophenol	330	16.808	16.815	(1.108)	3226	0.22735	0.2273
	56 4-Bromophenyl-phenylether	248	17.263	17.270	(0.949)	6274	0.20290	0.2029
	57 Hexachlorobenzene	284	17.580	17.587	(0.966)	7484	0.23085	0.2308
	58 Pentachlorophenol	266	17.936	17.943	(0.986)	3994	0.20823	0.2082
*	59 Phenanthrene-d10	188	18.191	18.206	(1.000)	552854	4.00000	
	60 Phenanthrene	178	18.237	18.252	(1.003)	31171	0.20677	0.2068
	61 Anthracene	178	18.330	18.338	(1.008)	25958	0.17950	0.1795
	62 Carbazole	167	18.663	18.670	(1.026)	23550	0.18174	0.1817
	63 Di-n-butylphthalate	149	19.460	19.475	(1.070)	27245	0.15637	0.1564
	64 Fluoranthene	202	20.613	20.620	(0.888)	32160	0.17117	0.1712
	65 Pyrene	202	21.038	21.046	(0.906)	35233	0.18280	0.1828
$	66 Terphenyl-d14	244	21.325	21.332	(0.918)	28541	0.19719	0.1972
	67 Butylbenzylphthalate	149	22.254	22.261	(0.958)	12010	0.17745	0.1775
	68 Benzo(a)anthracene	228	23.191	23.198	(0.999)	32332	0.19590	0.1959
*	69 Chrysene-d12	240	23.222	23.229	(1.000)	467591	4.00000	
	70 3,3'-Dichlorobenzidine	252	23.152	23.159	(0.997)	30568	0.57821	0.5782
	71 Chrysene	228	23.268	23.275	(1.002)	32375	0.20078	0.2008
	72 bis(2-Ethylhexyl)phthalate	149	23.283	23.283	(0.959)	13329	0.14111	0.1411
*	134 Di-n-octylphthalate-d4	153	24.267	24.266	(1.000)	645864	4.00000	
	73 Di-n-octylphthalate	149	24.274	24.282	(1.000)	35236	0.20847	0.2085
	74 Benzo(b)fluoranthene	252	25.072	25.071	(0.971)	32533	0.19379	0.1938
	75 Benzo(k)fluoranthene	252	25.110	25.118	(0.972)	36350	0.21324	0.2132
	76 Benzo(a)pyrene	252	25.714	25.722	(0.996)	28532	0.19010	0.1901
*	77 Perylene-d12	264	25.831	25.830	(1.000)	517894	4.00000	
	78 Indeno(1,2,3-cd)pyrene	276	28.451	28.466	(1.101)	37283	0.19525	0.1952
	79 Dibenzo(a,h)anthracene	278	28.467	28.482	(1.102)	32345	0.20403	0.2040
	80 Benzo(g,h,i)perylene	276	29.228	29.235	(1.132)	33707	0.20397	0.2040
	90 N-Nitrosodimethylamine	74	4.735	4.727	(0.500)	11789	0.38835	0.3883
	91 Aniline	93	8.567	8.566	(0.905)	24056	0.36194	0.3619
	93 Benzidine	184	20.853	20.860	(0.898)	19851	0.25722	0.2572
	103 Pyridine	79	4.789	4.758	(0.506)	17993	0.38594	0.3859
	105 1-methylnaphthalene	142	13.228	13.243	(1.142)	20623	0.20994	0.2099
	111 Azobenzene (1,2-DP-Hydrazine)	77	16.584	16.599	(1.093)	18529	0.17256	0.1726

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.110	25.118	(0.972)	66237	0.40865	0.4086
120 2,3,4,6-Tetrachlorophenol	232	15.904	15.912	(1.048)	4413	0.14536	0.1454

QC Flag Legend

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

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1003212304.D
Lab Smp Id: SLC0451-LCV1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230321.b\ABN.m
Misc Info:

Calibration Date: 21-MAR-2023
Calibration Time: 17:46
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	138414	69207	276828	157344	13.68
27 Naphthalene-d8	511348	255674	1022696	560807	9.67
42 Acenaphthene-d10	293241	146621	586482	301582	2.84
59 Phenanthrene-d10	535484	267742	1070968	552854	3.24
69 Chrysene-d12	464733	232367	929466	467591	0.61
134 Di-n-octylphthala	716354	358177	1432708	645864	-9.84
77 Perylene-d12	509704	254852	1019408	517894	1.61

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.11	8.61	9.61	9.11	0.01
27 Naphthalene-d8	11.59	11.09	12.09	11.58	-0.06
42 Acenaphthene-d10	15.19	14.69	15.69	15.17	-0.10
59 Phenanthrene-d10	18.21	17.71	18.71	18.19	-0.08
69 Chrysene-d12	23.23	22.73	23.73	23.22	-0.03
134 Di-n-octylphthala	24.27	23.77	24.77	24.27	0.00
77 Perylene-d12	25.83	25.33	26.33	25.83	0.00

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

REVIEW SUMMARY FOR FILE - NT1003212304.D

Lab ID: SLC0451-LCV1
nt10.i, 20230321.b\ABN.m,   21-MAR-2023 19:04

RT	CO-ELUTION COMPOUNDS
NO CO-ELUTIONS	

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.950	0.959	-0.0089	Benzoic acid

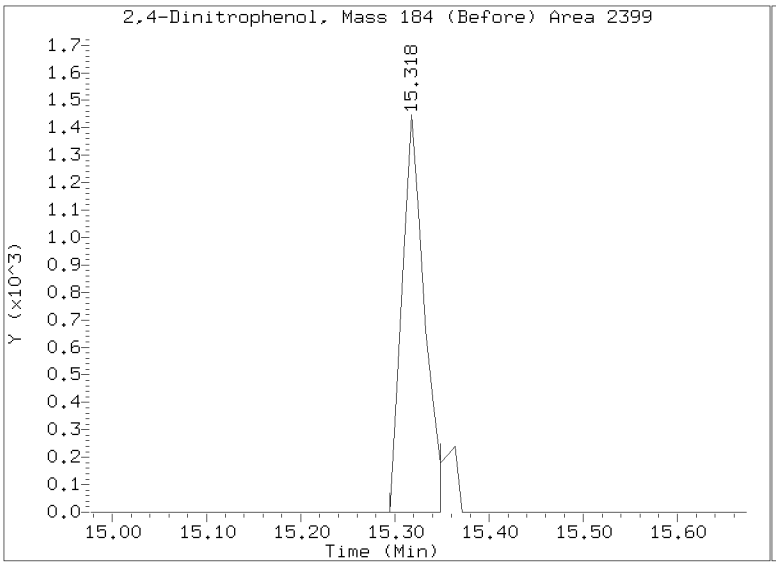
RRT check based on Ccal File: NT1003212302.D

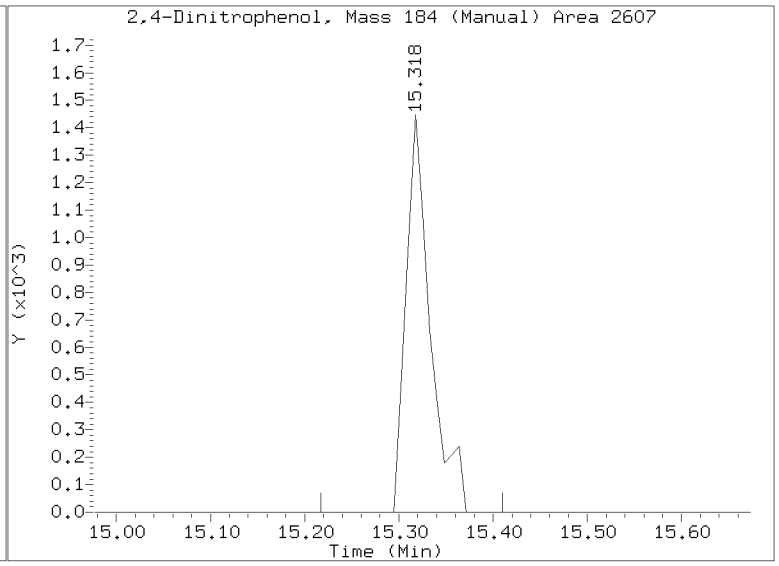
On Column LOD for nt10.i, 20230321.b\ABN.m, ICAL.sub = 0.0000

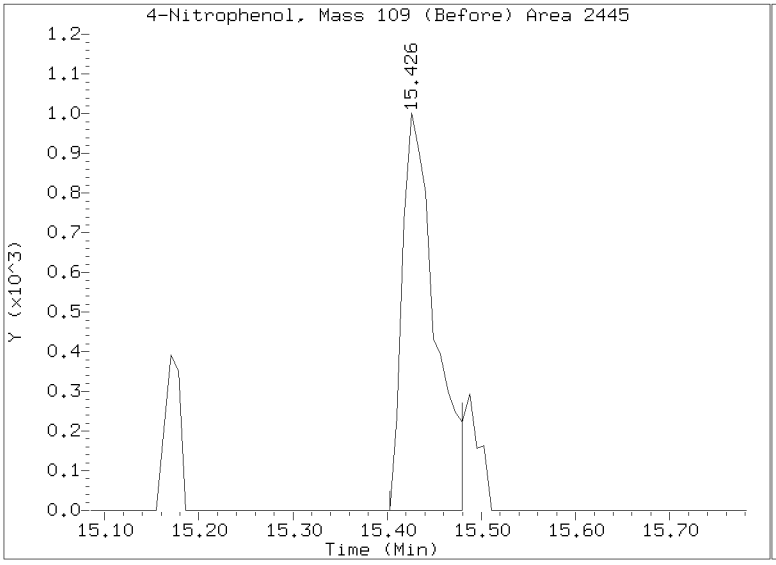
* Only compounds listed in the work order have been verified by the analyst *

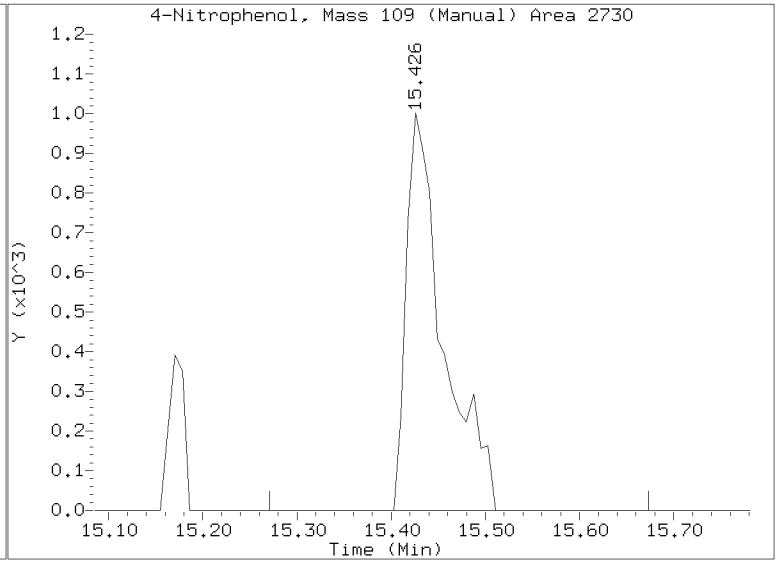
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230321.b/NT1003212304.D
Injection Date: 21-MAR-2023 19:04
Lab ID:SLC0451-LCV1 Client ID:
Report Date: 03/29/2023 08:01









Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	NT10	Calibration:	GC00046
Lab File ID:	NT1003212302.D	Calibration Date:	03/15/2023
Sequence:	SLC0451	Injection Date:	03/21/23
Lab Sample ID:	SLC0451-ICV1	Injection Time:	17:46
Sequence Name:	ABN 5		

		CONC. (ug/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
Phenol	A	5.0000	4.9	1.6490140	1.6196110		-1.8	+/-20
4-Methylphenol	A	5.0000	5.1	1.2665770	1.2930540		2.1	+/-20
Naphthalene	A	5.0000	5.0	1.0596590	1.0654940		0.6	+/-20
2-Methylnaphthalene	A	5.0000	5.1	0.7647129	0.7834508		2.5	+/-20
Acenaphthylene	A	5.0000	4.9	1.9964080	1.9390960		-2.9	+/-20
Dimethylphthalate	A	5.0000	5.0	1.2994310	1.2950410		-0.3	+/-20
Acenaphthene	A	5.0000	4.9	1.2333460	1.2051410		-2.3	+/-20
Dibenzofuran	A	5.0000	4.9	1.8187540	1.7917930		-1.5	+/-20
Fluorene	A	5.0000	5.0	1.4308680	1.4314310		0.04	+/-20
Phenanthrene	A	5.0000	4.9	1.0907130	1.0730780		-1.6	+/-20
Anthracene	A	5.0000	5.1	1.0462760	1.0768900		2.9	+/-20
Fluoranthene	A	5.0000	4.5	1.6072690	1.4518550		-9.7	+/-20
Pyrene	A	5.0000	4.4	1.6487720	1.4628290		-11.3	+/-20
Butylbenzylphthalate	A	5.0000	4.9	0.5292894	0.5802110		-2.8	+/-20
Benzo(a)anthracene	A	5.0000	4.8	1.4118770	1.3509550		-4.3	+/-20
Chrysene	A	5.0000	4.7	1.3793780	1.2879270		-6.6	+/-20
bis(2-Ethylhexyl)phthalate	A	5.0000	4.6	0.5248968	0.5370451		-8.5	+/-20
Benzofluoranthenes, Total	A	10.000	10.0	1.2519020	1.2470		-0.4	+/-20
Benzo(a)pyrene	A	5.0000	5.1	1.1592370	1.1722630		1.1	+/-20
Indeno(1,2,3-cd)pyrene	A	5.0000	5.0	1.4748270	1.4676470		-0.5	+/-20
Dibenzo(a,h)anthracene	A	5.0000	5.0	1.2244340	1.2348050		0.8	+/-20
Benzo(g,h,i)perylene	A	5.0000	5.0	1.2763410	1.2829970		0.5	+/-20
2-Fluorophenol	A	7.5000	7.54	1.2096460	1.2160470		0.5	+/-20
Phenol-d5	A	7.5000	7.40	1.5868760	1.5647590		-1.4	+/-20
2-Chlorophenol-d4	A	7.5000	7.49	1.3550800	1.3539590		-0.08	+/-20
1,2-Dichlorobenzene-d4	A	5.0000	4.93	0.9731556	0.9597411		-1.4	+/-20
Nitrobenzene-d5	A	5.0000	4.90	0.4037447	0.3954395		-2.1	+/-20
2-Fluorobiphenyl	A	5.0000	4.81	1.5822890	1.5222970		-3.8	+/-20
2,4,6-Tribromophenol	A	7.5000	8.75	0.1585901	0.2170683		16.7	+/-20
p-Terphenyl-d14	A	5.0000	4.59	1.2381950	1.1367820		-8.2	+/-20

* Values outside of QC limits

INITIAL CALIBRATION CHECK
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	NT10	Calibration:	GC00046
Lab File ID:	NT1003212302.D	Calibration Date:	03/15/2023
Sequence:	SLC0451	Injection Date:	03/21/23
Lab Sample ID:	SLC0451-ICV1	Injection Time:	17:46
Sequence Name:	ABN 5		

COMPOUND	TYPE	CONC. (ug/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
		STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
1,4-Dichlorobenzene-d4	A	4.0000	4.0	42885.5000	1.0000			
Naphthalene-d8	A	4.0000	4.0	156116.5000	1.0000			
Acenaphthene-d10	A	4.0000	4.0	84306.5000	1.0000			
Phenanthrene-d10	A	4.0000	4.0	143212.3000	1.0000			
Chrysene-d12	A	4.0000	4.0	86767.0000	1.0000			
Di-n-Octylphthalate-d4	A	4.0000	4.0	125079.3000	1.0000			
Perylene-d12	A	4.0000	4.0	105387.3000	1.0000			

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212302.D

Page 1

Date : 21-MAR-2023 17:46

Client ID:

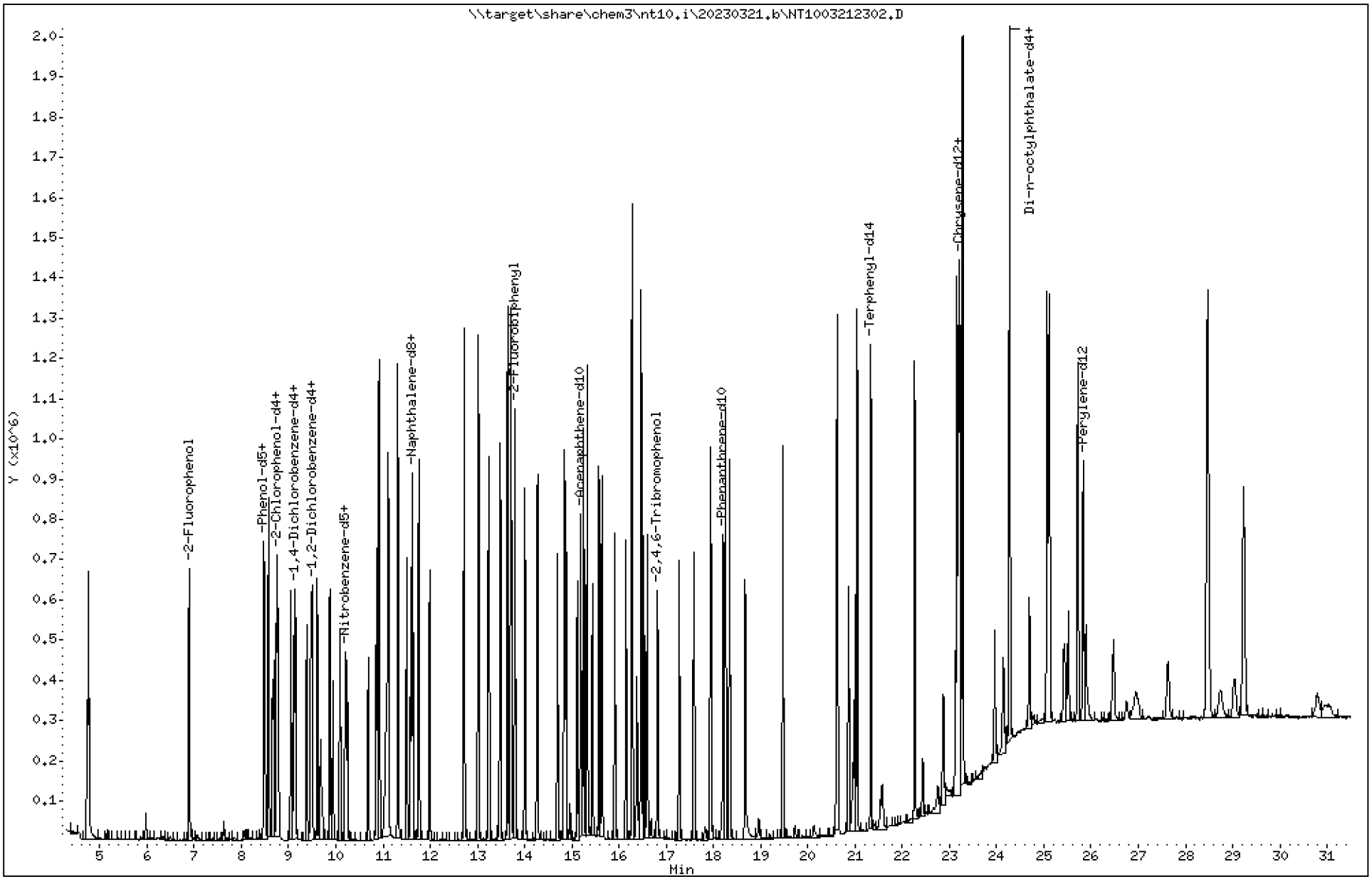
Instrument: nt10.i

Sample Info: SLC0451-ICV1

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230321.b\NT1003212302.D
Lab Smp Id: SLC0451-ICV1
Inj Date : 21-MAR-2023 17:46
Operator : VTS Inst ID: nt10.i
Smp Info : SLC0451-ICV1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230321.b\ABN.m
Meth Date : 29-Mar-2023 06:54 van Quant Type: ISTD
Cal Date : 16-MAR-2023 00:22 Cal File: NT10031508.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)	
$	1 2-Fluorophenol	112	6.889	6.889	(0.728)	315596	7.50000	7.540	
$	2 Phenol-d5	99	8.473	8.473	(0.895)	406096	7.50000	7.395	
	3 Phenol	94	8.497	8.497	(0.898)	280221	5.00000	4.911	
$	5 2-Chlorophenol-d4	132	8.744	8.744	(0.924)	351388	7.50000	7.494	
	4 Bis(2-Chloroethyl)ether	93	8.659	8.659	(0.915)	201731	5.00000	4.767	
	6 2-Chlorophenol	128	8.775	8.775	(0.927)	261417	5.00000	5.353	
	7 1,3-Dichlorobenzene	146	9.045	9.045	(0.956)	251137	5.00000	4.864	
*	8 1,4-Dichlorobenzene-d4	152	9.108	9.108	(1.000)	138414	4.00000		(H)
	9 1,4-Dichlorobenzene	146	9.139	9.139	(0.966)	271939	5.00000	5.452	
$	10 1,2-Dichlorobenzene-d4	152	9.465	9.465	(1.000)	166052	5.00000	4.931	
	12 1,2-Dichlorobenzene	146	9.496	9.496	(1.003)	241211	5.00000	4.914	
	11 Benzyl alcohol	108	9.379	9.379	(0.991)	138042	5.00000	5.154	
	14 2,2'-oxybis(1-Chloropropane)	121	9.682	9.682	(1.023)	69677	5.00000	4.834	(M)
	13 2-Methylphenol	108	9.604	9.604	(1.015)	208918	5.00000	5.023	
	17 Hexachloroethane	117	10.086	10.086	(1.066)	98270	5.00000	4.802	
	16 N-Nitroso-di-n-propylamine	70	9.938	9.938	(1.050)	154007	5.00000	4.689	
	15 4-Methylphenol	108	9.876	9.876	(1.043)	223721	5.00000	5.105	
$	18 Nitrobenzene-d5	82	10.202	10.202	(0.880)	252759	5.00000	4.897	
	19 Nitrobenzene	77	10.241	10.241	(0.884)	239402	5.00000	4.726	
	20 Isophorone	82	10.683	10.683	(0.922)	312126	5.00000	4.817	
	21 2-Nitrophenol	139	10.858	10.858	(0.937)	158065	5.00000	6.374	
	22 2,4-Dimethylphenol	107	10.918	10.918	(0.942)	408409	10.0000	8.778	
	23 Bis(2-Chloroethoxy)methane	93	11.113	11.113	(0.959)	199308	5.00000	4.605	
	24 Benzoic acid	105	11.113	11.113	(0.959)	623740	20.0000	22.85	
	25 2,4-Dichlorophenol	162	11.316	11.316	(0.977)	442273	10.0000	11.88	
	26 1,2,4-Trichlorobenzene	180	11.502	11.502	(0.993)	212143	5.00000	4.854	
*	27 Naphthalene-d8	136	11.587	11.587	(1.000)	511348	4.00000		
	28 Naphthalene	128	11.626	11.626	(1.003)	681048	5.00000	5.028	
	29 4-Chloroaniline	127	11.757	11.757	(1.015)	504315	10.0000	9.543	
	30 Hexachlorobutadiene	225	11.989	11.989	(1.035)	132517	5.00000	5.175	
	31 4-Chloro-3-methylphenol	107	12.716	12.716	(1.097)	415588	10.0000	10.31	
	32 2-Methylnaphthalene	142	13.018	13.018	(1.123)	500770	5.00000	5.123	
	33 Hexachlorocyclopentadiene	237	13.483	13.483	(0.888)	272460	10.0000	10.04	

		QUANT SIG					AMOUNTS CAL-AMT	AMOUNTS ON-COL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug/mL)
34	2,4,6-Trichlorophenol	196	13.637	13.637	(0.898)	301074	10.0000	10.39
35	2,4,5-Trichlorophenol	196	13.707	13.707	(0.903)	328691	10.0000	10.21
$ 36	2-Fluorobiphenyl	172	13.800	13.800	(0.909)	558000	5.00000	4.810
37	2-Chloronaphthalene	162	14.009	14.009	(0.923)	444506	5.00000	4.733
38	2-Nitroaniline	65	14.272	14.272	(0.940)	253281	10.0000	9.600
39	Dimethylphthalate	163	14.698	14.698	(0.968)	474699	5.00000	4.983
40	Acenaphthylene	152	14.876	14.876	(0.980)	710778	5.00000	4.856
41	2,6-Dinitrotoluene	165	14.837	14.837	(0.977)	222311	10.0000	10.80
* 42	Acenaphthene-d10	164	15.185	15.185	(1.000)	293241	4.00000	
43	3-Nitroaniline	138	15.116	15.116	(0.995)	199212	10.0000	8.577
44	Acenaphthene	153	15.247	15.247	(1.004)	441746	5.00000	4.886
45	2,4-Dinitrophenol	184	15.324	15.324	(1.009)	303754	20.0000	23.31
46	Dibenzofuran	168	15.572	15.572	(1.025)	656784	5.00000	4.926
47	4-Nitrophenol	109	15.432	15.432	(1.016)	127865	10.0000	8.801
48	2,4-Dinitrotoluene	165	15.641	15.641	(1.030)	315874	10.0000	10.32
50	Diethylphthalate	149	16.144	16.144	(1.063)	463247	5.00000	4.956
49	Fluorene	166	16.283	16.283	(1.072)	524693	5.00000	5.002
51	4-Chlorophenyl-phenylether	204	16.275	16.275	(1.072)	246623	5.00000	4.944
52	4-Nitroaniline	138	16.375	16.375	(1.078)	173392	10.0000	8.284
53	4,6-Dinitro-2-methylphenol	198	16.468	16.468	(0.905)	362175	20.0000	21.85
54	N-Nitrosodiphenylamine	169	16.522	16.522	(0.907)	335698	5.00000	4.689
$ 55	2,4,6-Tribromophenol	330	16.815	16.815	(1.107)	119350	7.50000	8.751
56	4-Bromophenyl-phenylether	248	17.270	17.270	(0.949)	156311	5.00000	5.219
57	Hexachlorobenzene	284	17.587	17.587	(0.966)	161226	5.00000	5.134
58	Pentachlorophenol	266	17.943	17.943	(0.986)	207057	10.0000	10.91
* 59	Phenanthrene-d10	188	18.206	18.206	(1.000)	535484	4.00000	
60	Phenanthrene	178	18.252	18.252	(1.003)	718270	5.00000	4.919
61	Anthracene	178	18.338	18.338	(1.007)	720822	5.00000	5.146
62	Carbazole	167	18.670	18.670	(1.025)	578904	5.00000	4.612
63	Di-n-butylphthalate	149	19.475	19.475	(1.070)	827015	5.00000	4.926
64	Fluoranthene	202	20.620	20.620	(0.888)	843406	5.00000	4.517
65	Pyrene	202	21.046	21.046	(0.906)	849781	5.00000	4.436
$ 66	Terphenyl-d14	244	21.332	21.332	(0.918)	660375	5.00000	4.590
67	Butylbenzylphthalate	149	22.261	22.261	(0.958)	337054	5.00000	4.860
68	Benzo(a)anthracene	228	23.198	23.198	(0.999)	784792	5.00000	4.784
* 69	Chrysene-d12	240	23.229	23.229	(1.000)	464733	4.00000	
70	3,3'-Dichlorobenzidine	252	23.159	23.159	(0.997)	477832	15.0000	9.094
71	Chrysene	228	23.275	23.275	(1.002)	748178	5.00000	4.669
72	bis(2-Ethylhexyl)phthalate	149	23.283	23.283	(0.959)	480893	5.00000	4.577
* 134	Di-n-octylphthalate-d4	153	24.266	24.266	(1.000)	716354	4.00000	
73	Di-n-octylphthalate	149	24.282	24.282	(1.001)	861544	5.00000	4.596
74	Benzo(b)fluoranthene	252	25.071	25.071	(0.971)	843239	5.00000	5.104
75	Benzo(k)fluoranthene	252	25.118	25.118	(0.972)	824284	5.00000	4.913
76	Benzo(a)pyrene	252	25.722	25.722	(0.996)	746884	5.00000	5.056
* 77	Perylene-d12	264	25.830	25.830	(1.000)	509704	4.00000	
78	Indeno(1,2,3-cd)pyrene	276	28.466	28.466	(1.102)	935082	5.00000	4.976
79	Dibenzo(a,h)anthracene	278	28.482	28.482	(1.103)	786731	5.00000	5.042
80	Benzo(g,h,i)perylene	276	29.235	29.235	(1.132)	817436	5.00000	5.026
90	N-Nitrosodimethylamine	74	4.727	4.727	(0.499)	253149	10.0000	9.480
91	Aniline	93	8.566	8.566	(0.905)	545199	10.0000	9.325
93	Benzidine	184	20.860	20.860	(0.898)	395254	10.0000	5.153
103	Pyridine	79	4.758	4.758	(0.503)	387514	10.0000	9.449
105	1-methylnaphthalene	142	13.243	13.243	(1.143)	456968	5.00000	5.102
111	Azobenzene (1,2-DP-Hydrazine)	77	16.599	16.599	(1.093)	476885	5.00000	4.568

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug/mL)
187 Total Benzofluoranthenes	252	25.118	25.118	(0.972)	1589002	10.0000	9.961
120 2,3,4,6-Tetrachlorophenol	232	15.912	15.912	(1.048)	162253	5.00000	5.310

QC Flag Legend

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

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1003212302.D
Lab Smp Id: SLC0451-ICV1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230321.b\ABN.m
Misc Info:

Calibration Date: 21-MAR-2023
Calibration Time: 12:28
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	138414	69207	276828	138414	0.00
27 Naphthalene-d8	511348	255674	1022696	511348	0.00
42 Acenaphthene-d10	293241	146621	586482	293241	0.00
59 Phenanthrene-d10	535484	267742	1070968	535484	0.00
69 Chrysene-d12	464733	232367	929466	464733	0.00
134 Di-n-octylphthala	716354	358177	1432708	716354	0.00
77 Perylene-d12	509704	254852	1019408	509704	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.11	8.61	9.61	9.11	0.00
27 Naphthalene-d8	11.59	11.09	12.09	11.59	0.00
42 Acenaphthene-d10	15.19	14.69	15.69	15.19	0.00
59 Phenanthrene-d10	18.21	17.71	18.71	18.21	0.00
69 Chrysene-d12	23.23	22.73	23.73	23.23	0.00
134 Di-n-octylphthala	24.27	23.77	24.77	24.27	0.00
77 Perylene-d12	25.83	25.33	26.33	25.83	0.00

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

REVIEW SUMMARY FOR FILE - NT1003212302.D

Lab ID: SLC0451-ICV1
nt10.i, 20230321.b\ABN.m,   21-MAR-2023 17:46

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

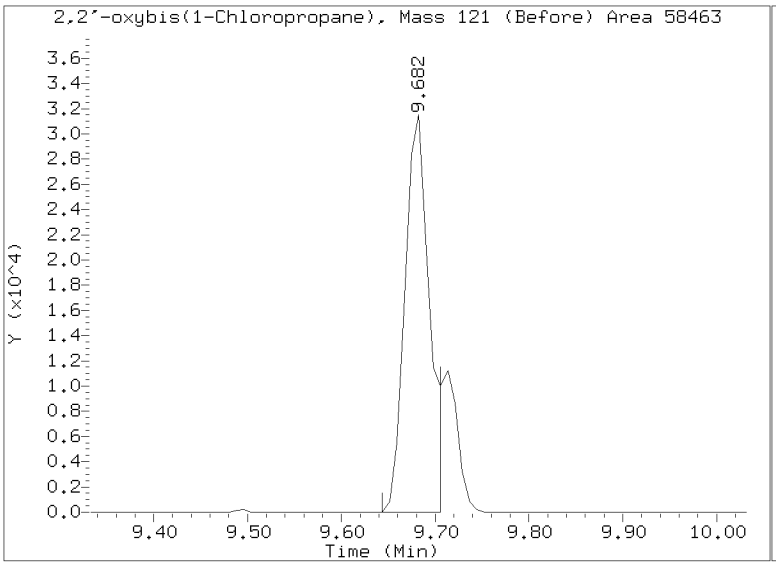
No RRT check. Ccal file.

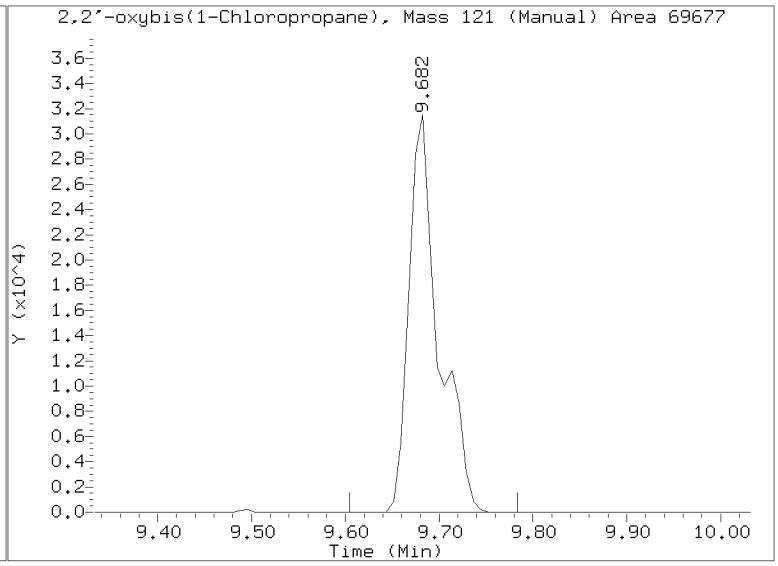
On Column LOD for nt10.i, 20230321.b\ABN.m, ICAL.sub = 0.0000

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230321.b/NT1003212302.D
Injection Date: 21-MAR-2023 17:46
Lab ID:SLC0451-ICV1 Client ID:
Report Date: 03/29/2023 08:01





Q-FLAG SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230321.b

Instrument: nt10.i Date: 21-MAR-2023 Method: 20230321.b\ABN.m

INITIAL CAL: 15-MAR-2023

Compound	%RSD or R^2
NO Q-FLAGS	

ICV CAL: NT1003212302.D 21-MAR-2023 17:46

Compound	%D
2-Nitrophenol	27.5
3,3'-Dichlorobenzidine	-39.4
Benzidine	-48.5

Analytical Resources, LLC
Analytical Chemists and Consultants

SECOND-SOURCE
CONTINUING CALIBRATION CHECK
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	NT10	Calibration:	GC00046
Lab File ID:	NT10031511.D	Calibration Date:	03/15/2023
Sequence:	SLC0228	Injection Date:	03/16/23
Lab Sample ID:	SLC0228-SCV1	Injection Time:	02:16
Sequence Name:	SCV 5.0		

		CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Phenol	A	5.0000	4.4	1.6490140	1.4552130		-11.8	+/-20
4-Methylphenol	A	5.0000	4.4	1.2665770	1.1056260		-12.7	+/-20
Naphthalene	A	5.0000	4.7	1.0596590	0.9996013		-5.7	+/-20
2-Methylnaphthalene	A	5.0000	4.6	0.7647129	0.7029502		-8.1	+/-20
Acenaphthylene	A	5.0000	4.8	1.9964080	1.9185840		-3.9	+/-20
Dimethylphthalate	A	5.0000	4.9	1.2994310	1.2831790		-1.3	+/-20
Acenaphthene	A	5.0000	4.8	1.2333460	1.1780660		-4.5	+/-20
Dibenzofuran	A	5.0000	4.6	1.8187540	1.6906760		-7.0	+/-20
Fluorene	A	5.0000	4.7	1.4308680	1.3472940		-5.8	+/-20
Phenanthrene	A	5.0000	4.6	1.0907130	1.0038520		-8.0	+/-20
Anthracene	A	5.0000	4.2	1.0462760	0.8719973		-16.7	+/-20
Fluoranthene	A	5.0000	4.5	1.6072690	1.4376960		-10.6	+/-20
Pyrene	A	5.0000	4.3	1.6487720	1.4307800		-13.2	+/-20
Butylbenzylphthalate	A	5.0000	4.8	0.5292894	0.5769788		-3.3	+/-20
Benzo(a)anthracene	A	5.0000	4.6	1.4118770	1.3122590		-7.1	+/-20
Chrysene	A	5.0000	4.5	1.3793780	1.2442450		-9.8	+/-20
bis(2-Ethylhexyl)phthalate	A	5.0000	4.7	0.5248968	0.5492136		-6.4	+/-20
Benzofluoranthenes, Total	A	10.000	9.5	1.2519020	1.1872400		-5.2	+/-20
Benzo(a)pyrene	A	5.0000	4.9	1.1592370	1.1298800		-2.5	+/-20
Indeno(1,2,3-cd)pyrene	A	5.0000	4.6	1.4748270	1.3499250		-8.5	+/-20
Dibenzo(a,h)anthracene	A	5.0000	4.5	1.2244340	1.1134110		-9.1	+/-20
Benzo(g,h,i)perylene	A	5.0000	4.6	1.2763410	1.1716820		-8.2	+/-20
2-Fluorophenol	A		0.00	1.2096460				+/-20
Phenol-d5	A		0.00	1.5868760				+/-20
2-Chlorophenol-d4	A		0.00	1.3550800				+/-20
1,2-Dichlorobenzene-d4	A		0.00	0.9731556				+/-20
Nitrobenzene-d5	A		0.00	0.4037447				+/-20
2-Fluorobiphenyl	A		0.00	1.5822890				+/-20
2,4,6-Tribromophenol	A		0.00	0.1585901				+/-20
p-Terphenyl-d14	A		0.00	1.2381950				+/-20

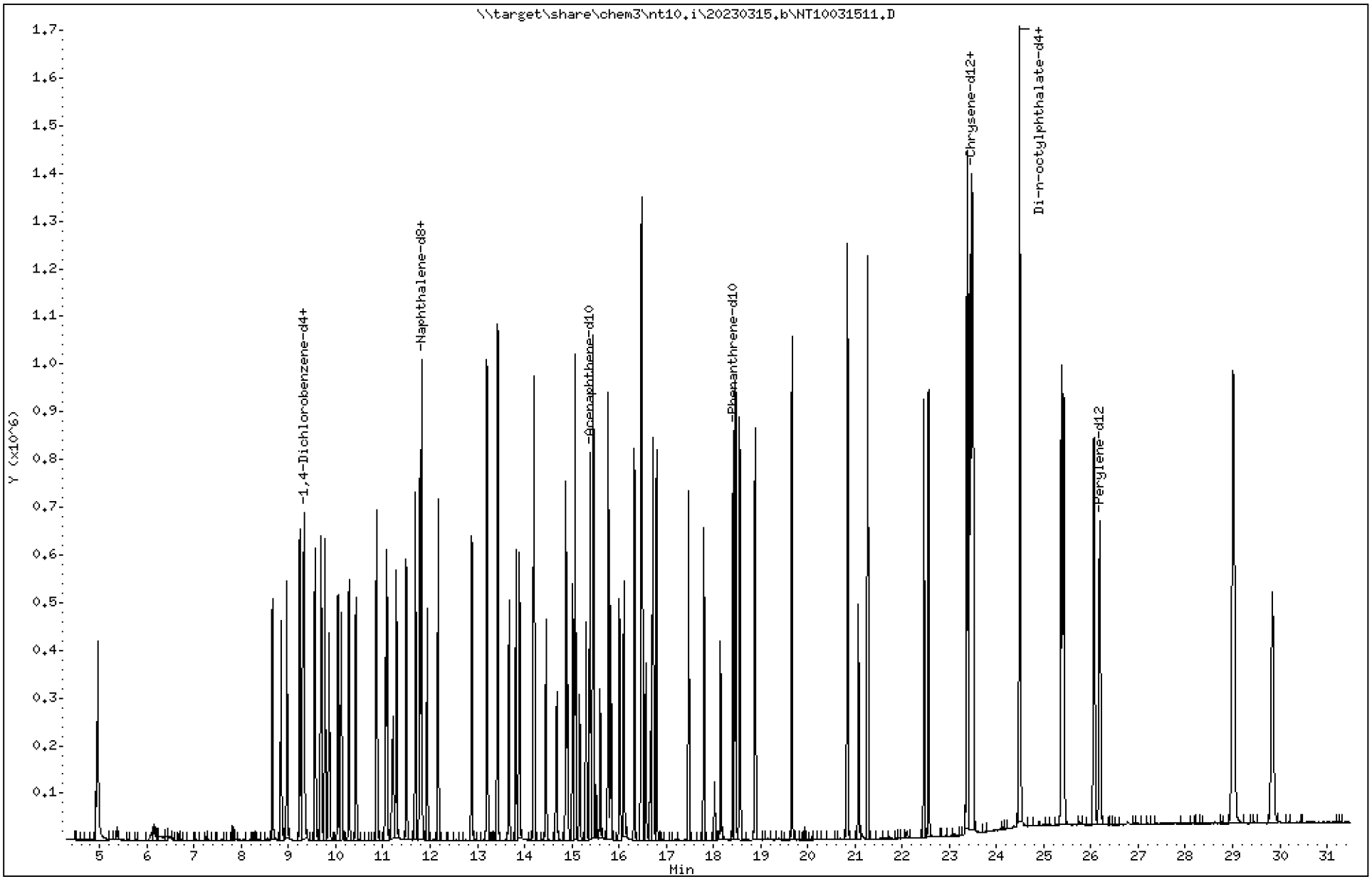
* Values outside of QC limits

Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D
Date : 16-MAR-2023 02:16
Client ID:
Sample Info: SLC0228-SCV1

Column phase: ZB-5msi

Instrument: nt10.i

Operator: VTS
Column diameter: 0.25



Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

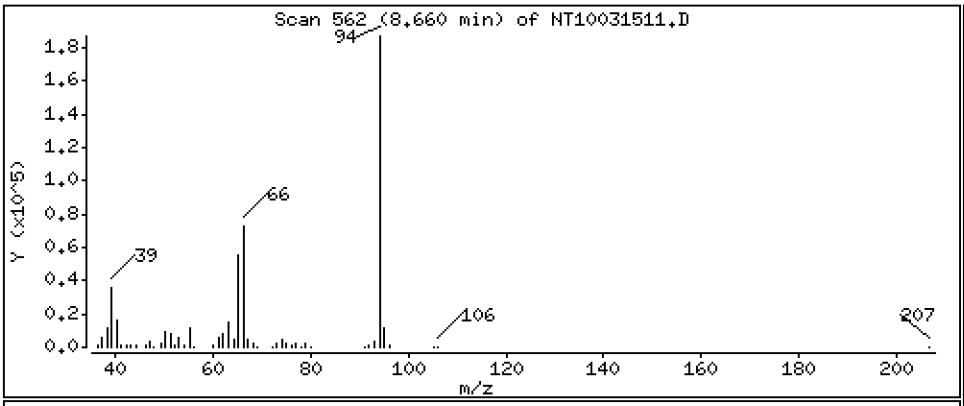
Operator: VTS

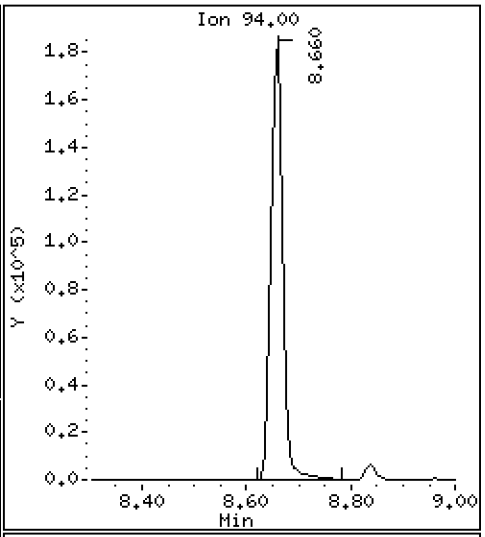
Column phase: ZB-5msi

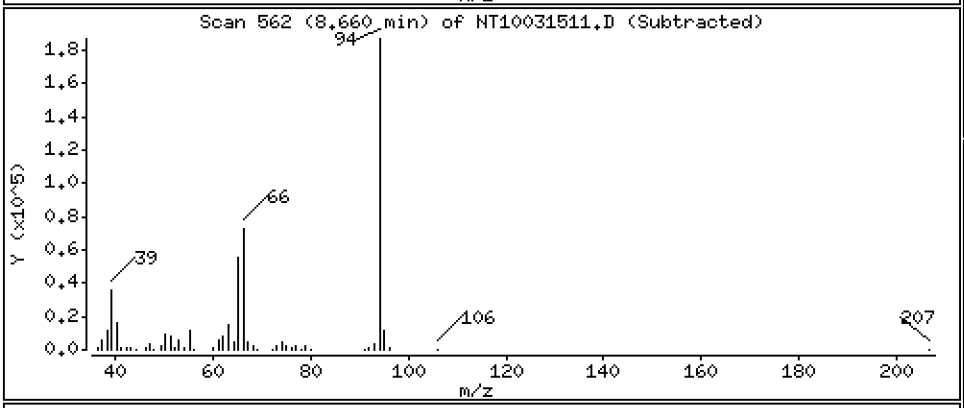
Column diameter: 0.25

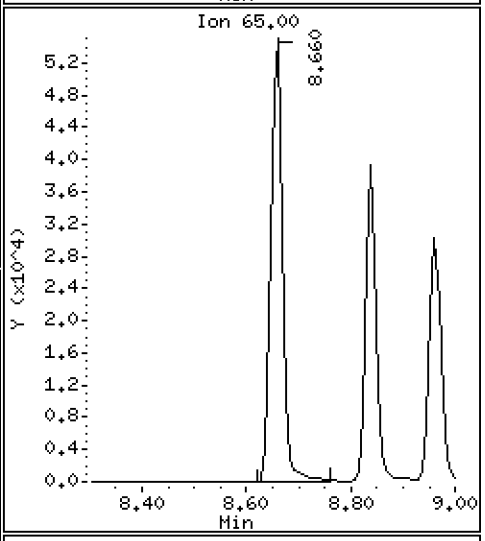
3 Phenol

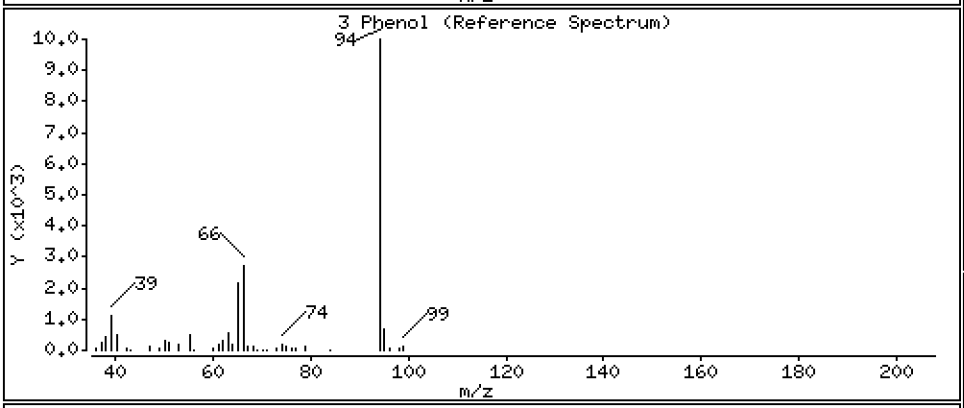
Concentration: 4.412 ug/mL

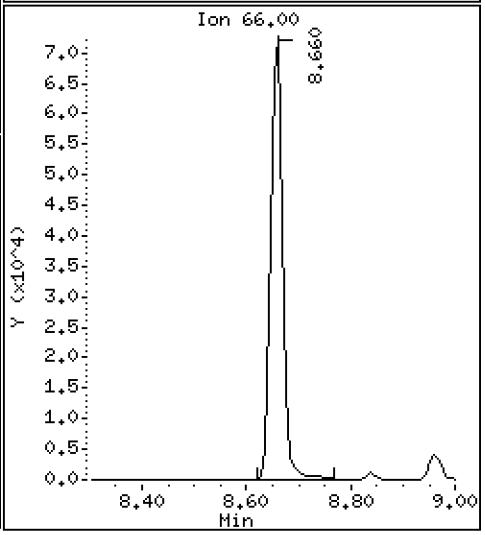


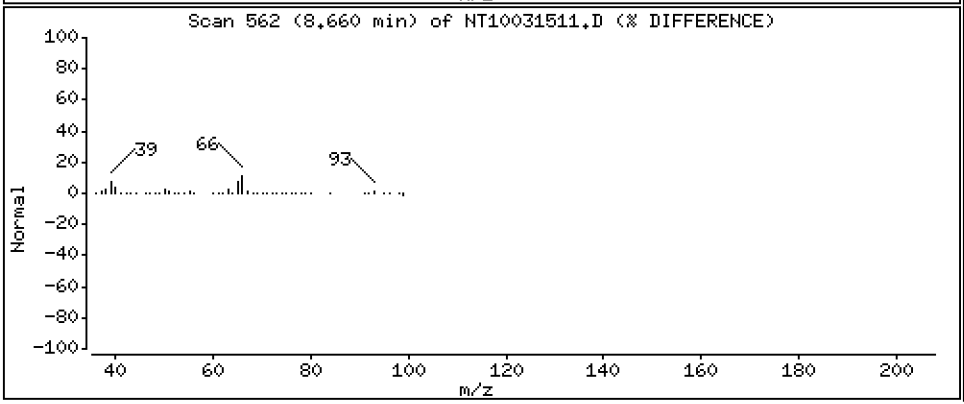












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

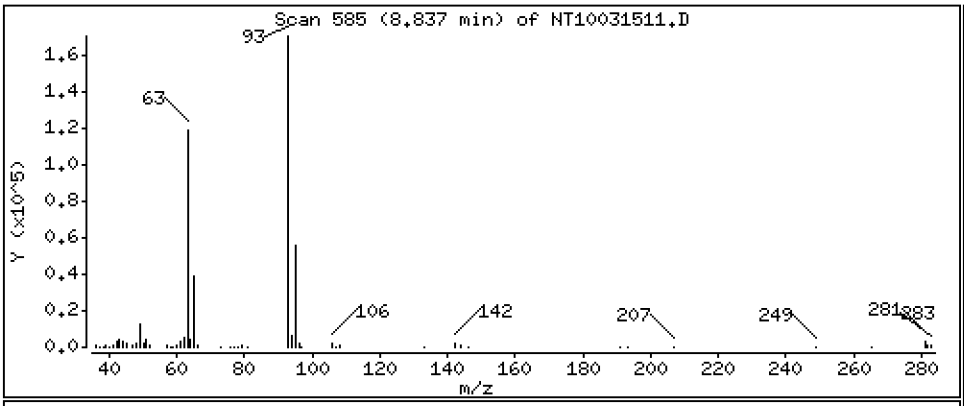
Operator: VTS

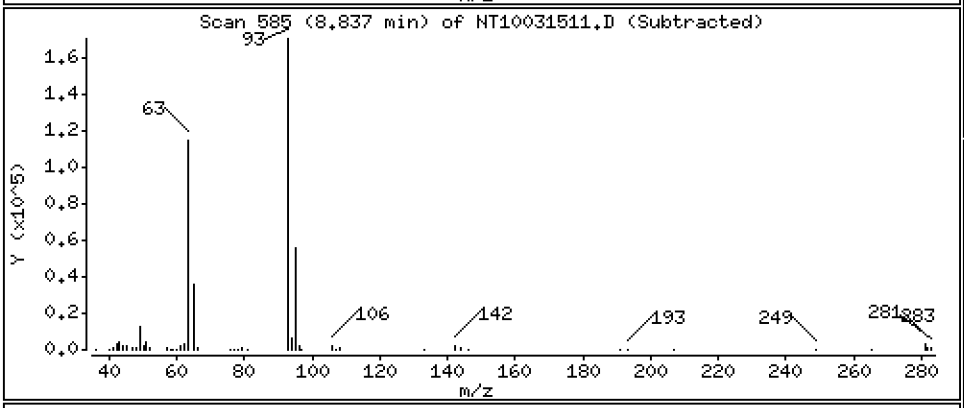
Column phase: ZB-5msi

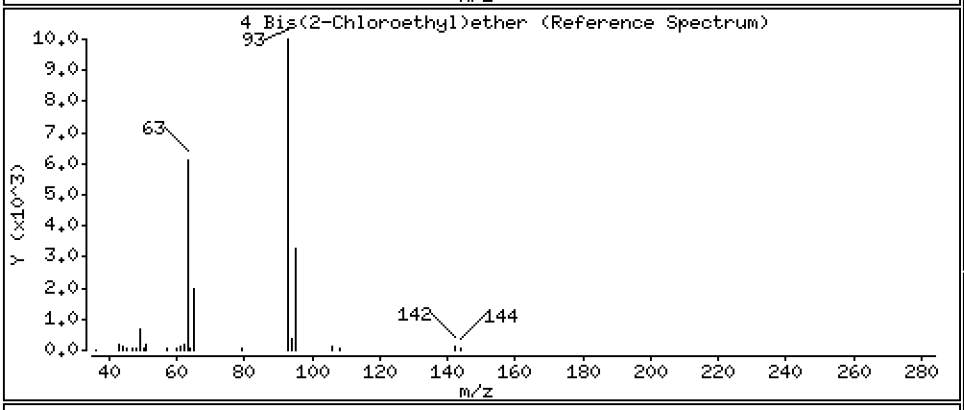
Column diameter: 0.25

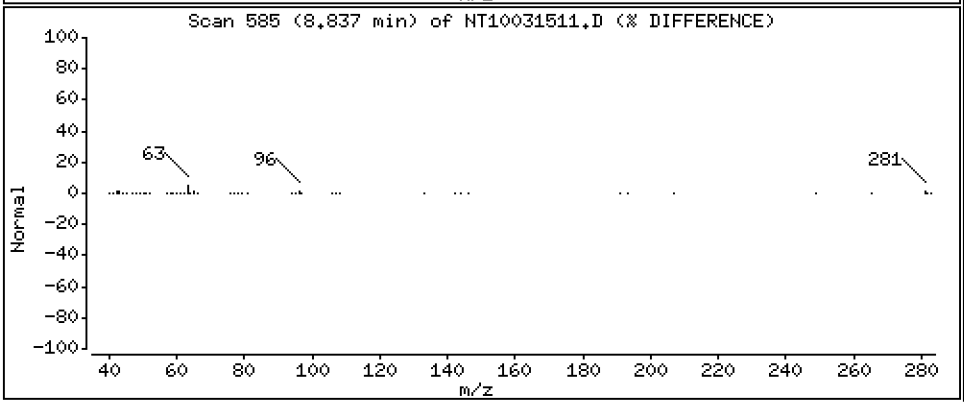
4 Bis(2-Chloroethyl)ether

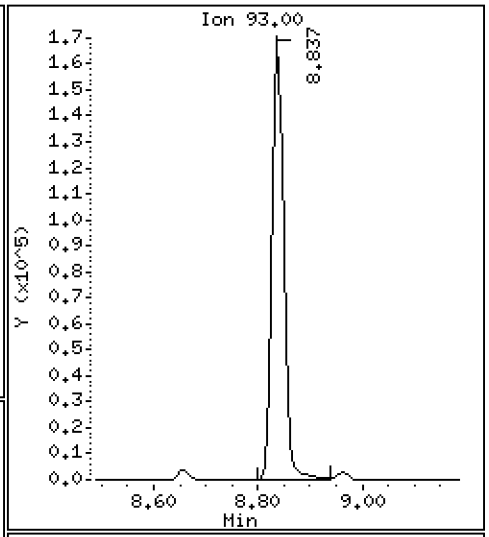
Concentration: 5.258 ug/mL

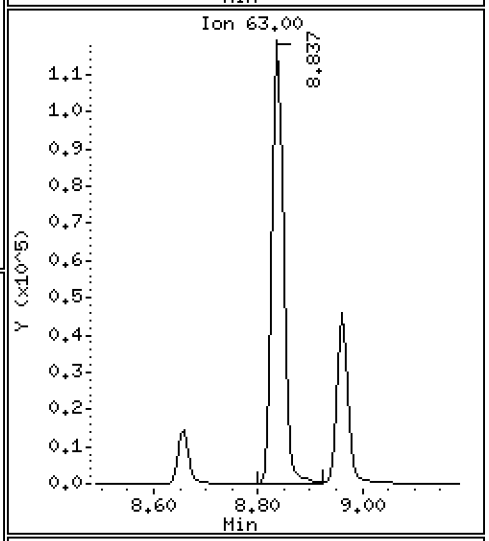


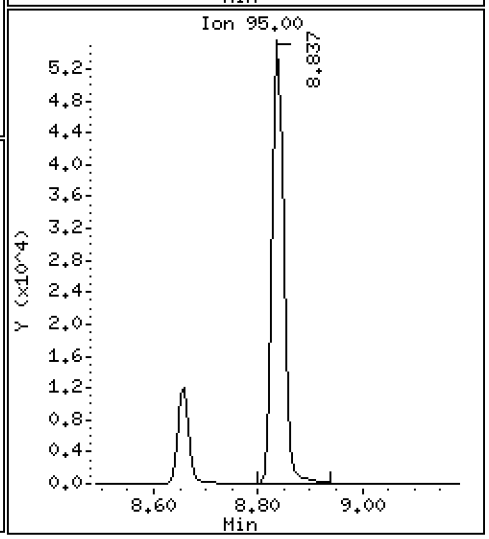












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

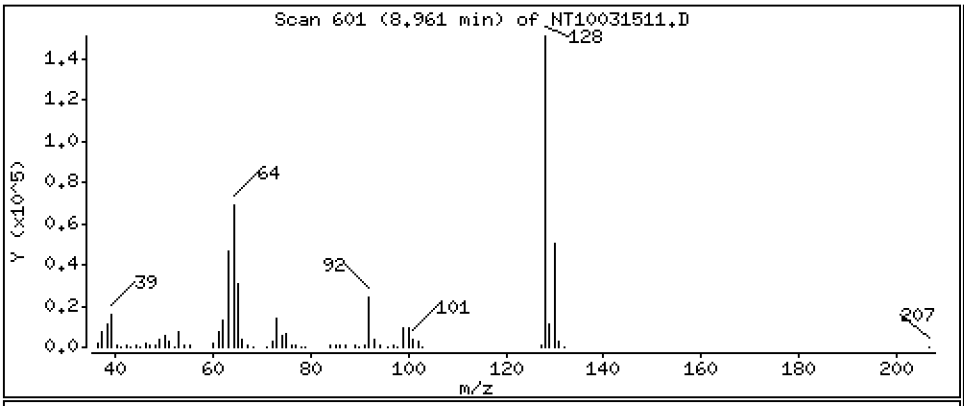
Operator: VTS

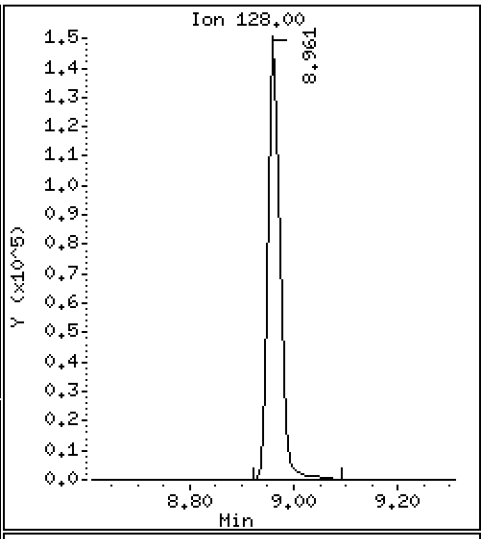
Column phase: ZB-5msi

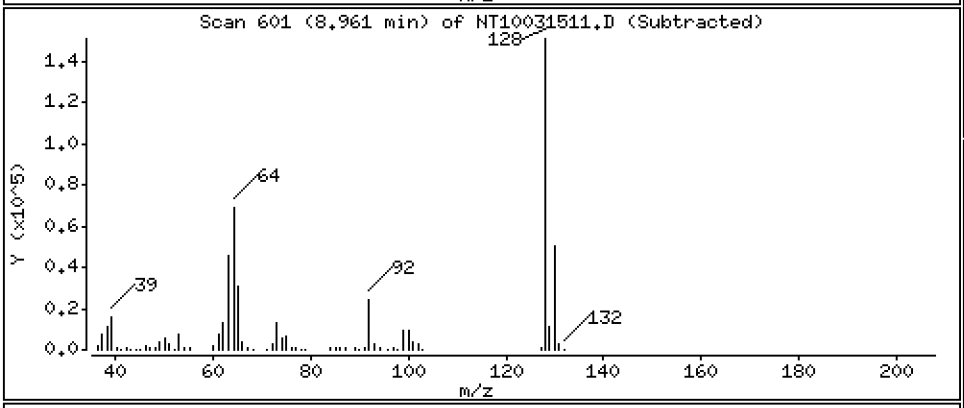
Column diameter: 0.25

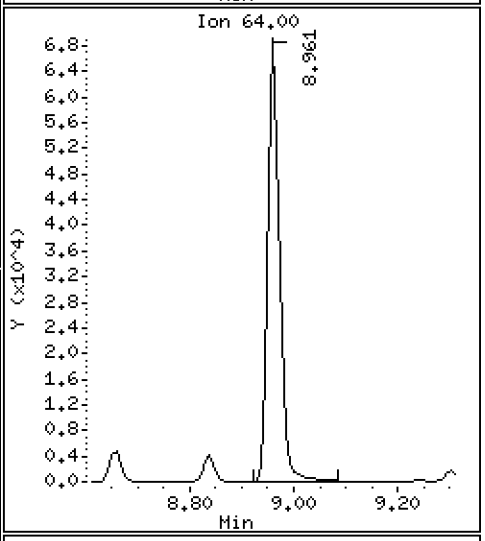
6 2-Chlorophenol

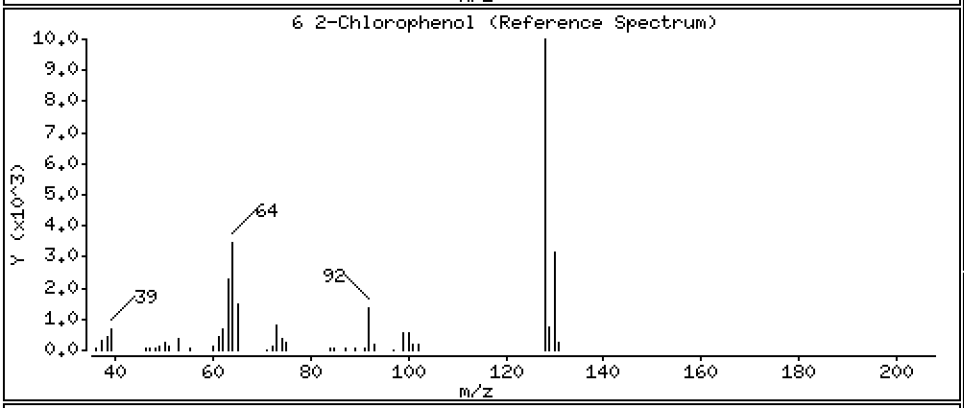
Concentration: 4.277 ug/mL

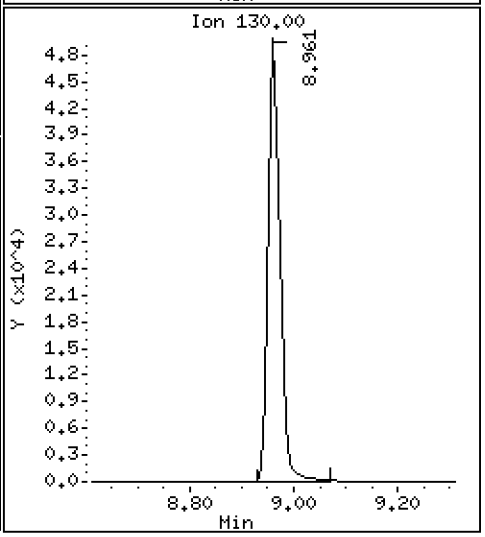


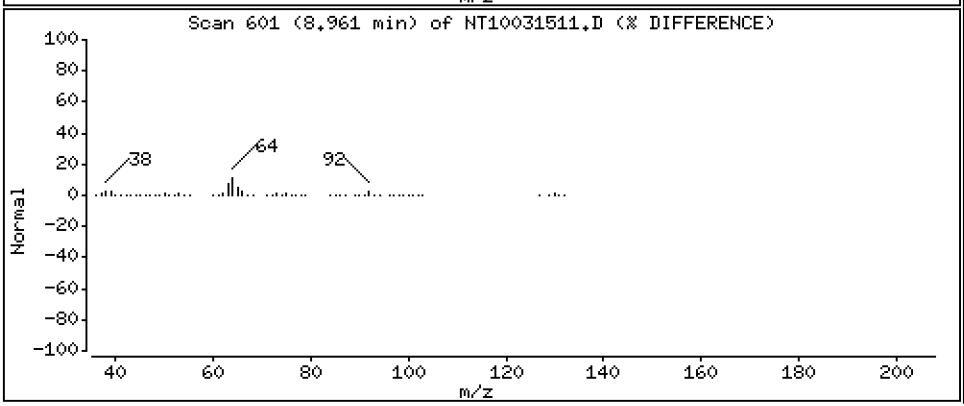












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

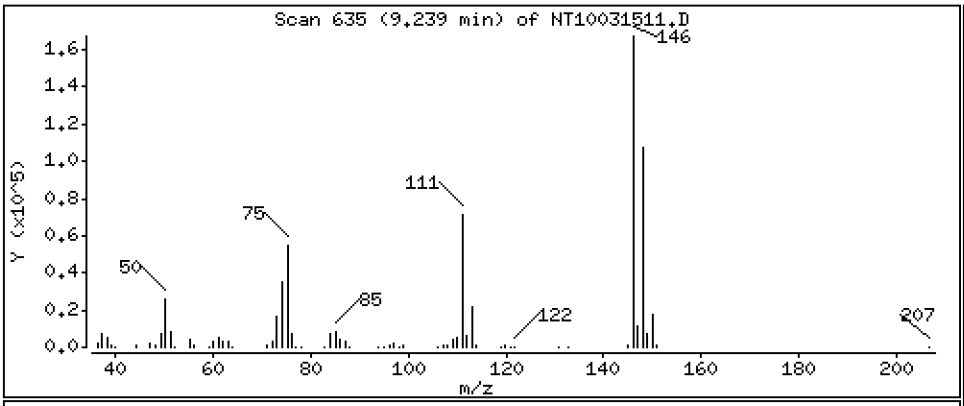
Operator: VTS

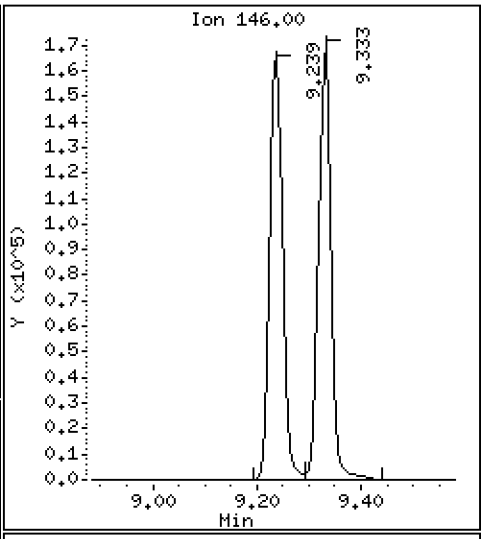
Column phase: ZB-5msi

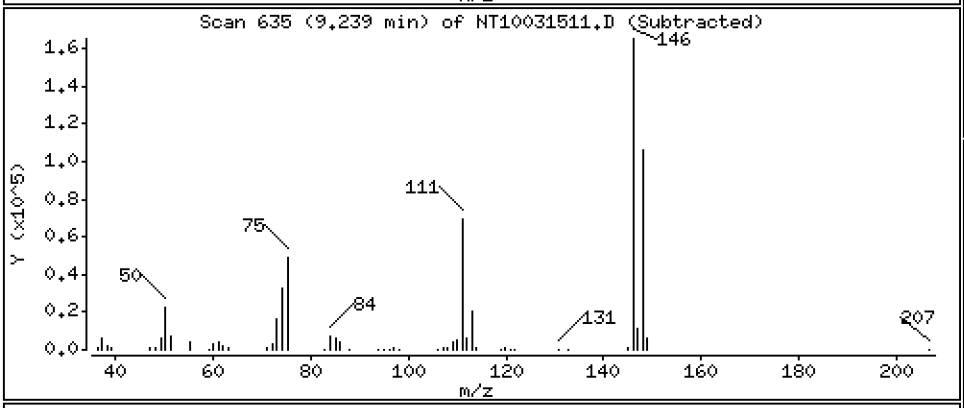
Column diameter: 0.25

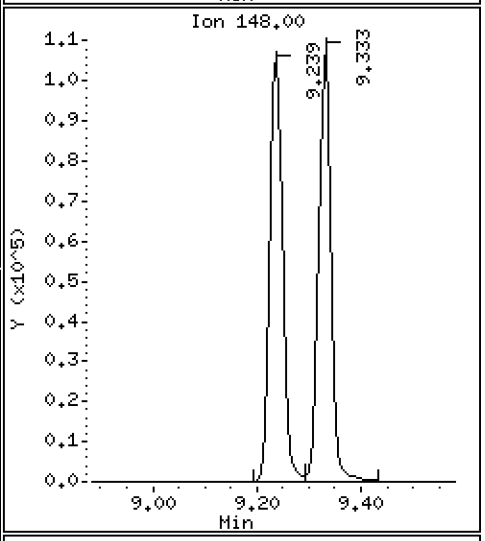
7 1,3-Dichlorobenzene

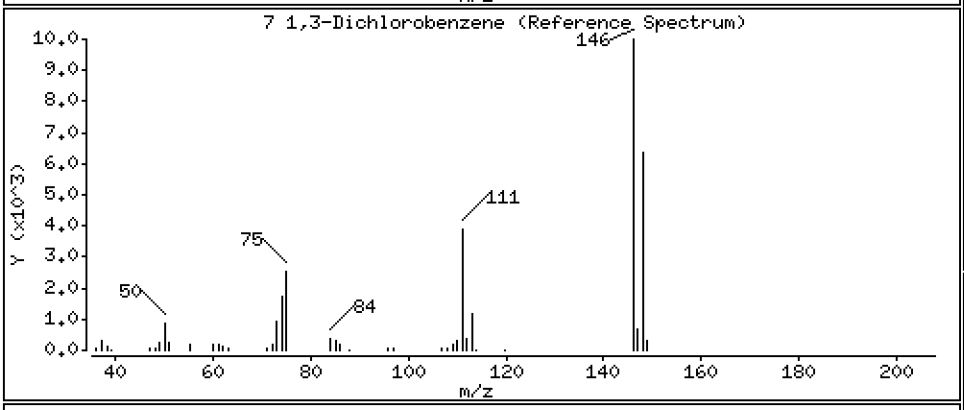
Concentration: 4.772 ug/mL

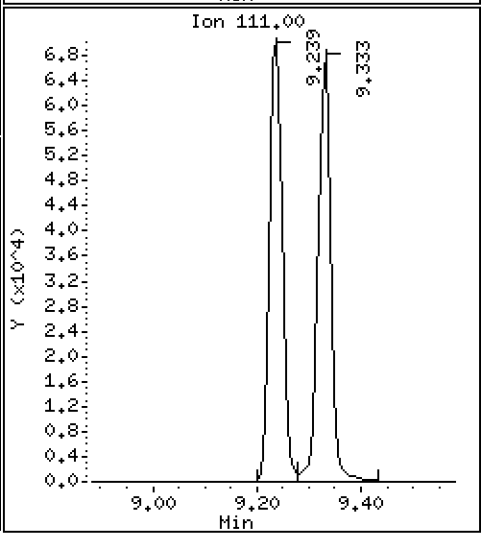


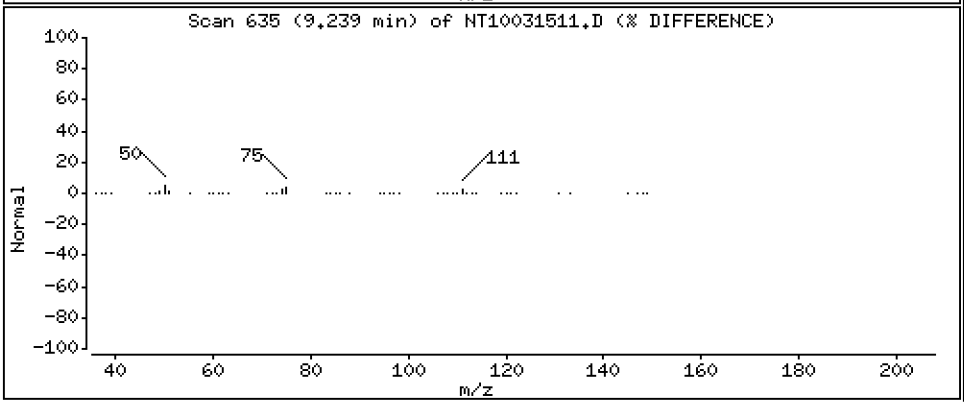












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

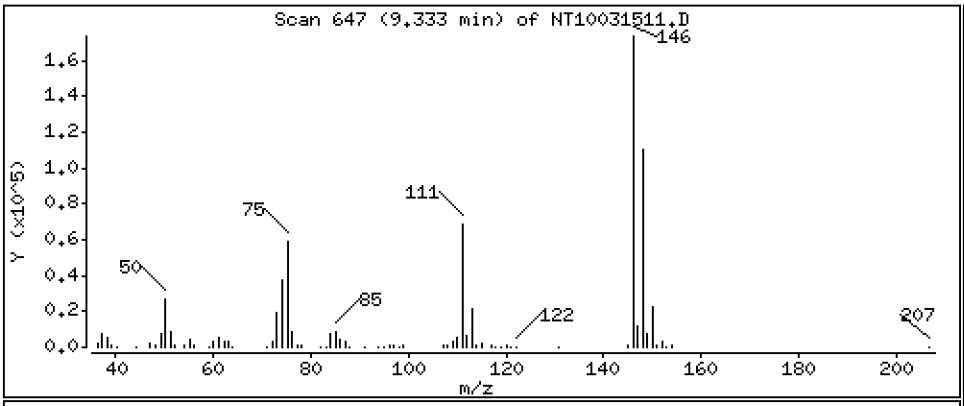
Operator: VTS

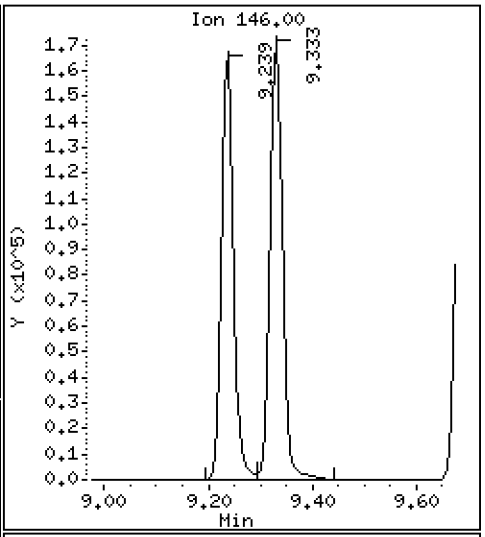
Column phase: ZB-5msi

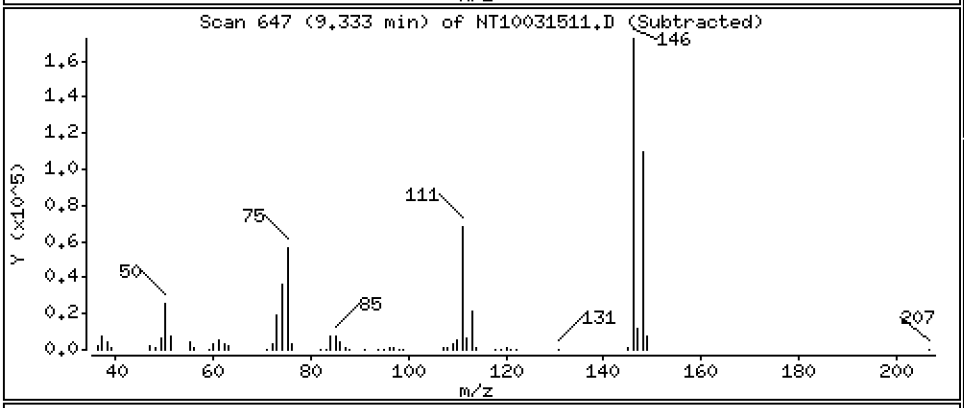
Column diameter: 0.25

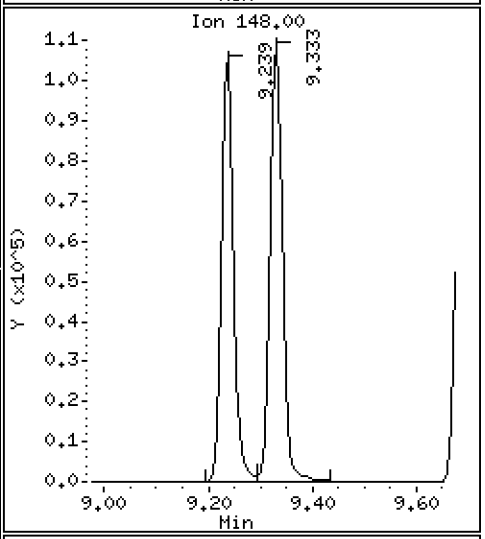
9 1,4-Dichlorobenzene

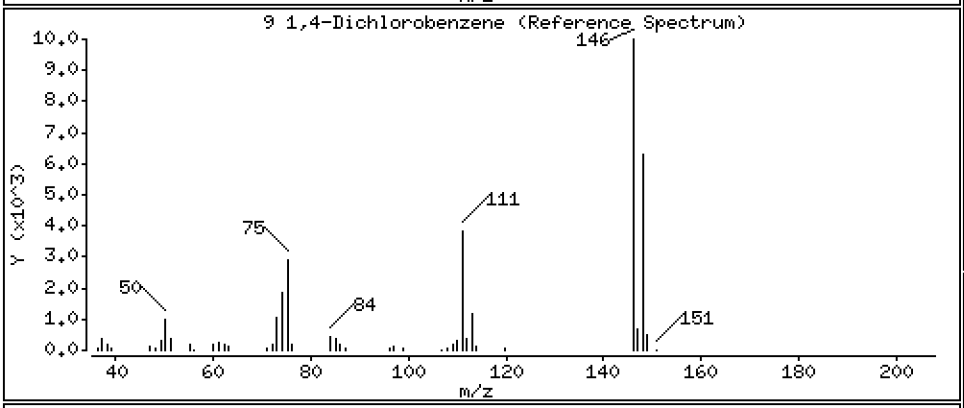
Concentration: 4.913 ug/mL

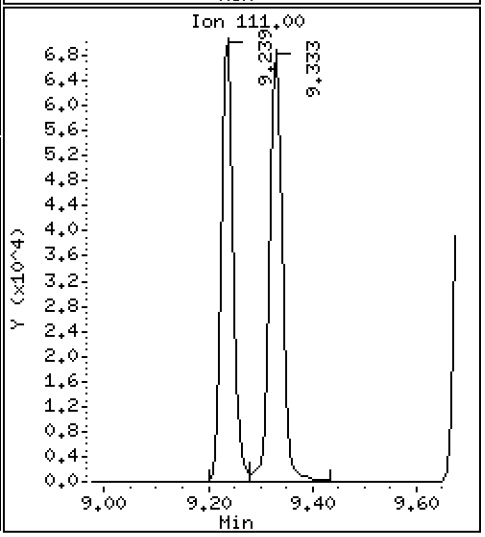


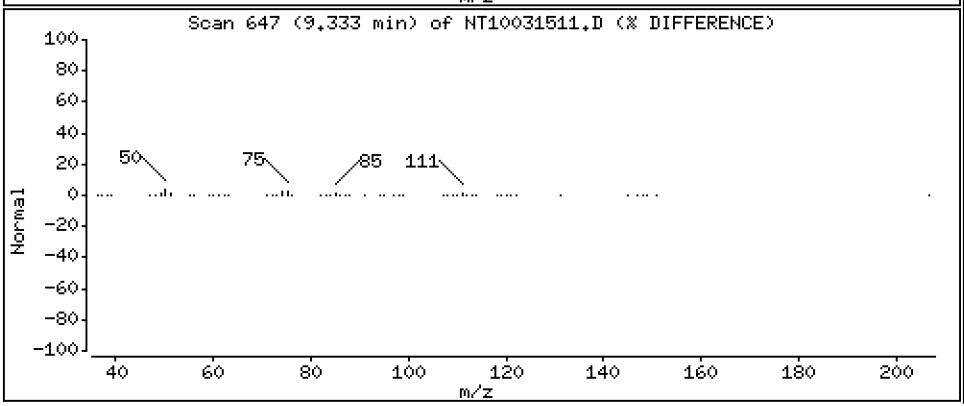












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

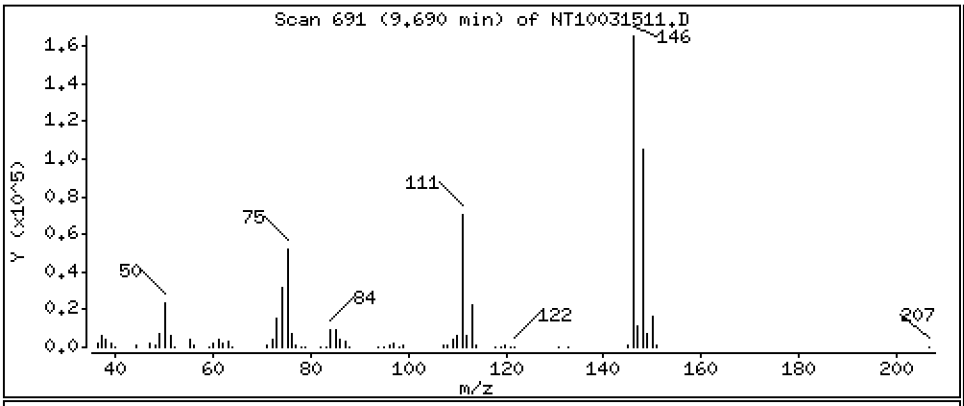
Operator: VTS

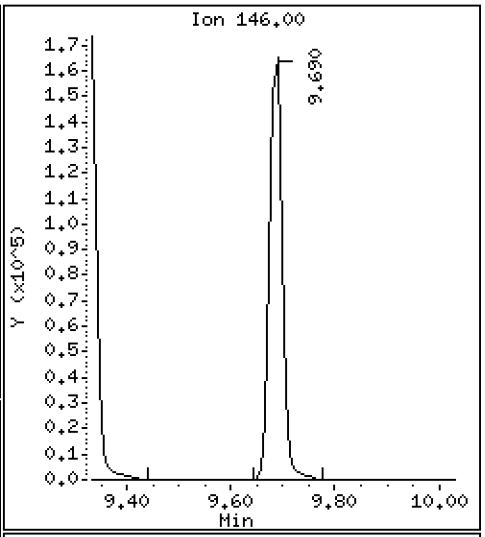
Column phase: ZB-5msi

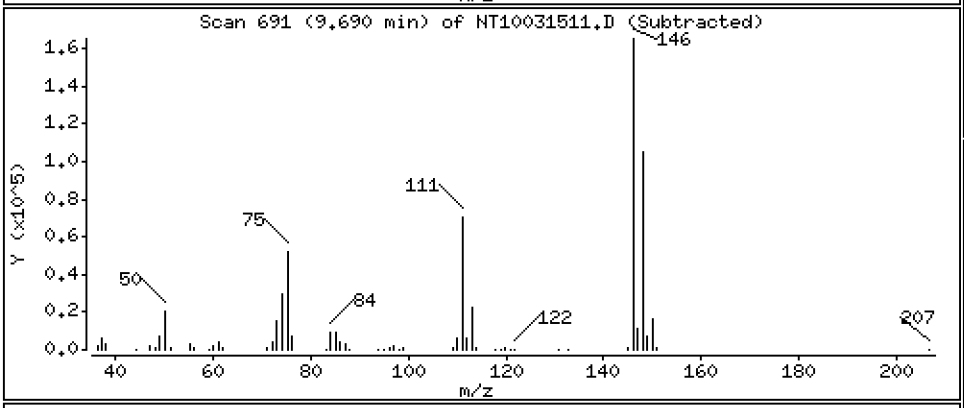
Column diameter: 0.25

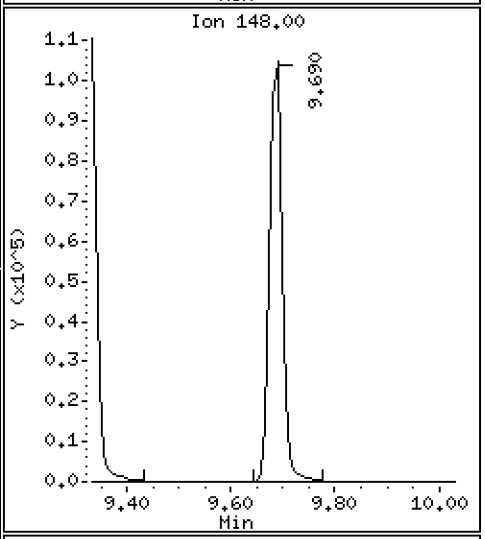
12 1,2-Dichlorobenzene

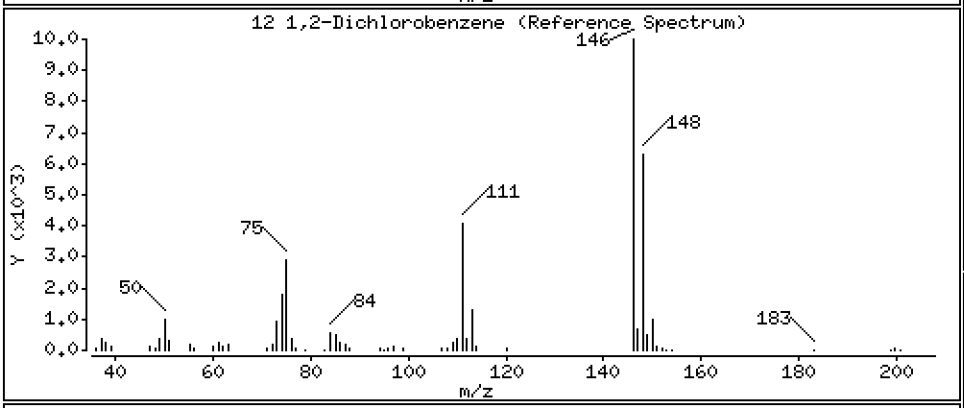
Concentration: 4.882 ug/mL

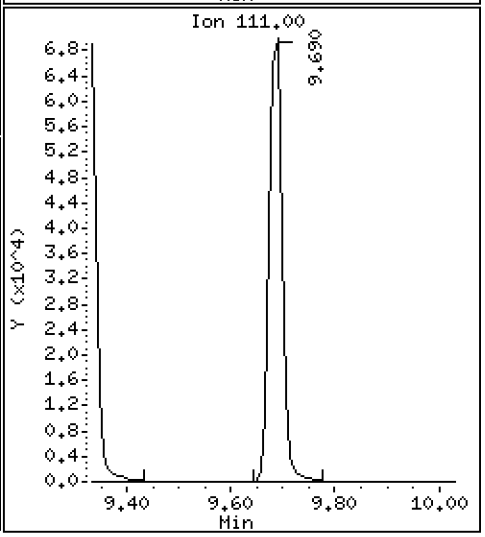


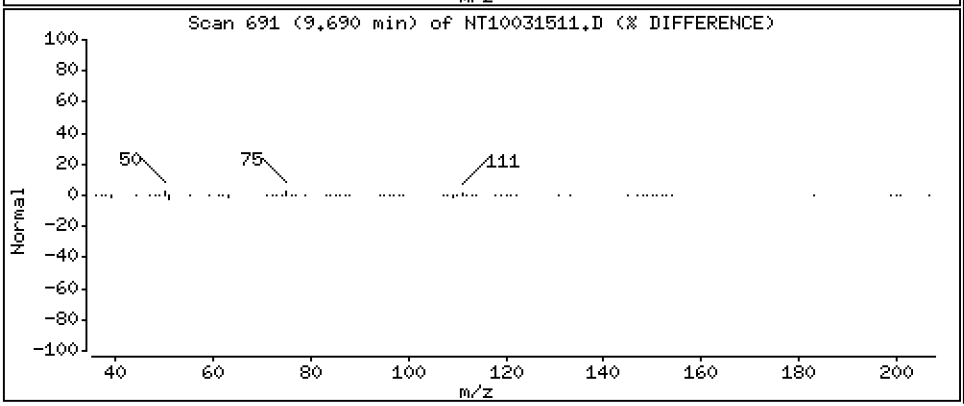












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

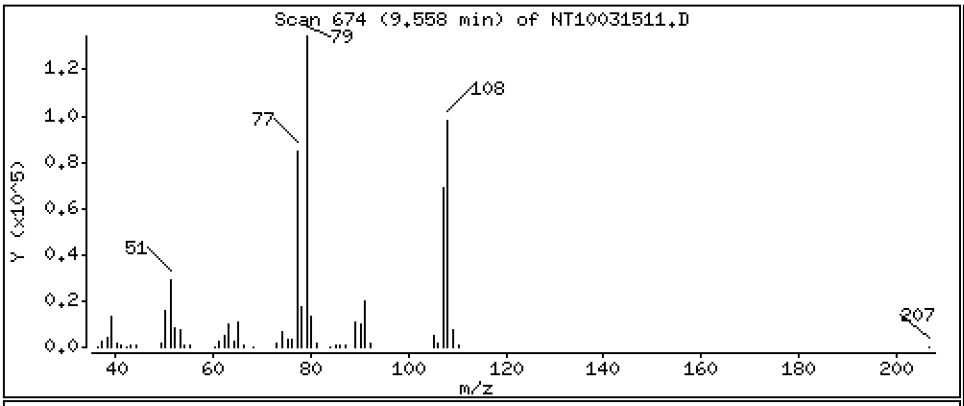
Operator: VTS

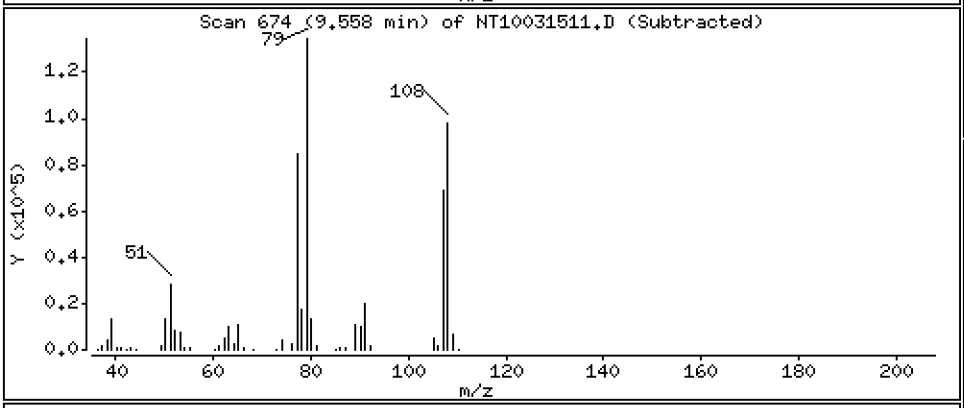
Column phase: ZB-5msi

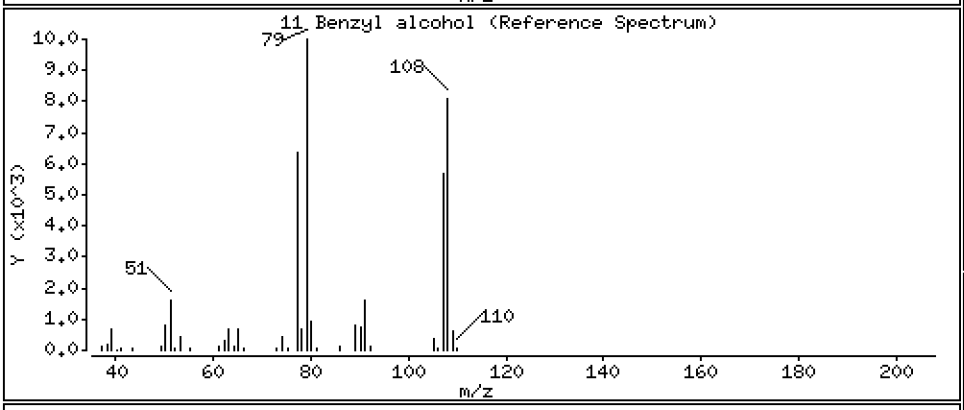
Column diameter: 0.25

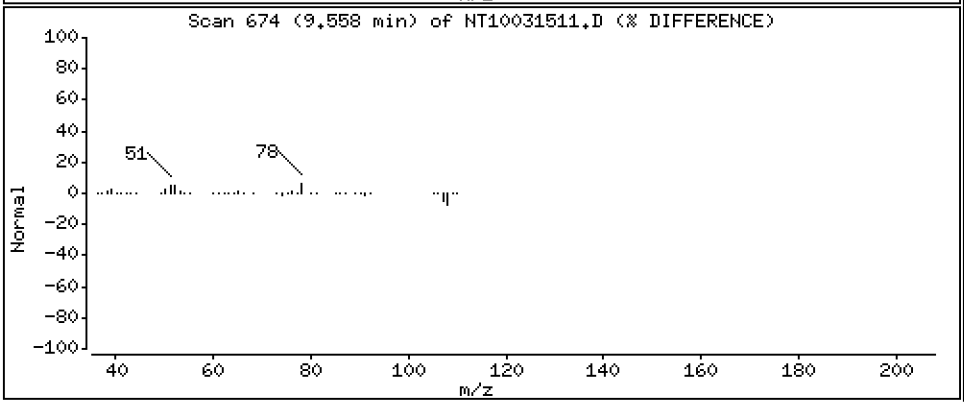
11 Benzyl alcohol

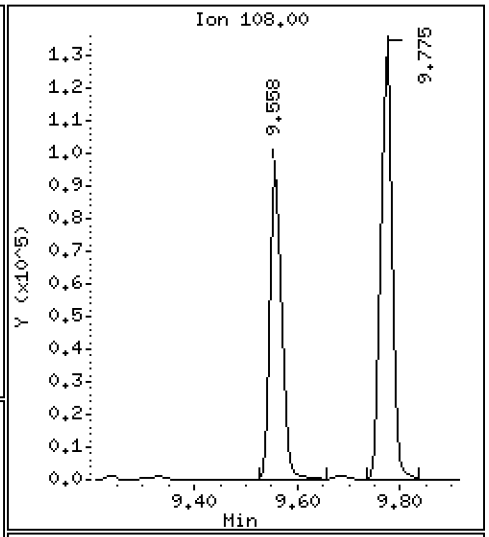
Concentration: 4.927 ug/mL

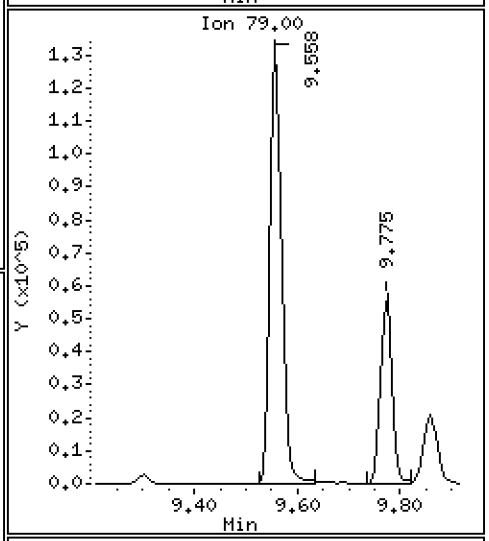


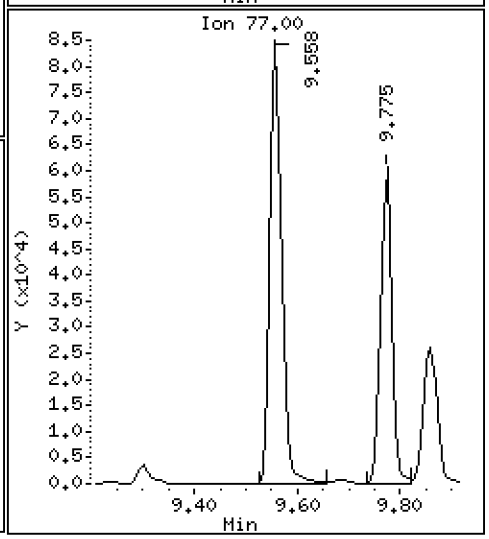












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

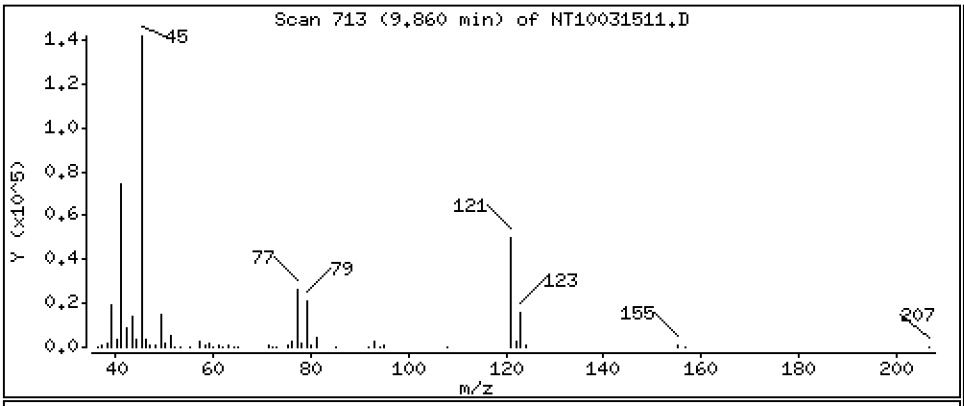
Operator: VTS

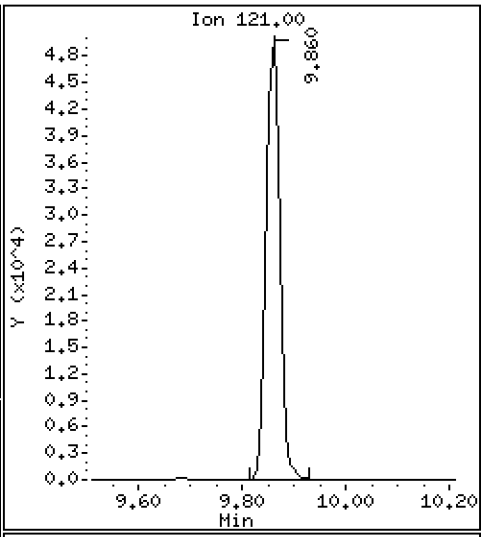
Column phase: ZB-5msi

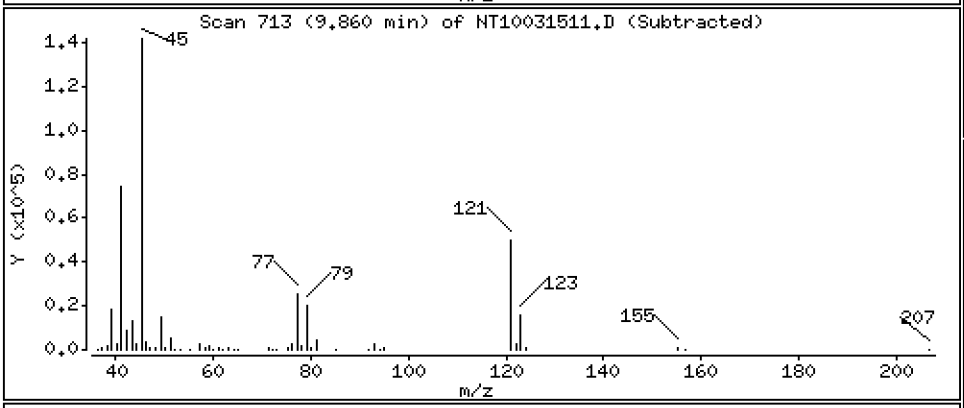
Column diameter: 0.25

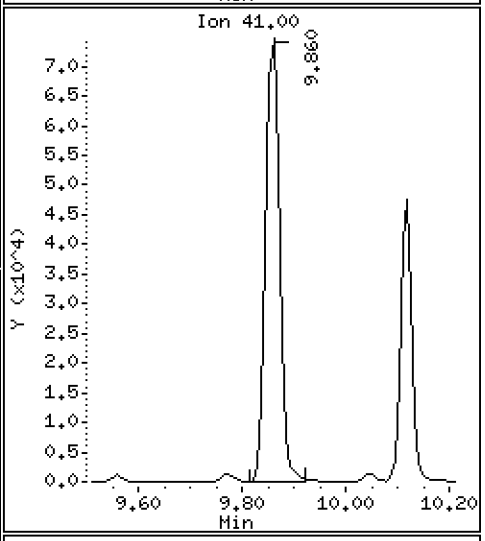
14 2,2'-oxybis(1-Chloropropane)

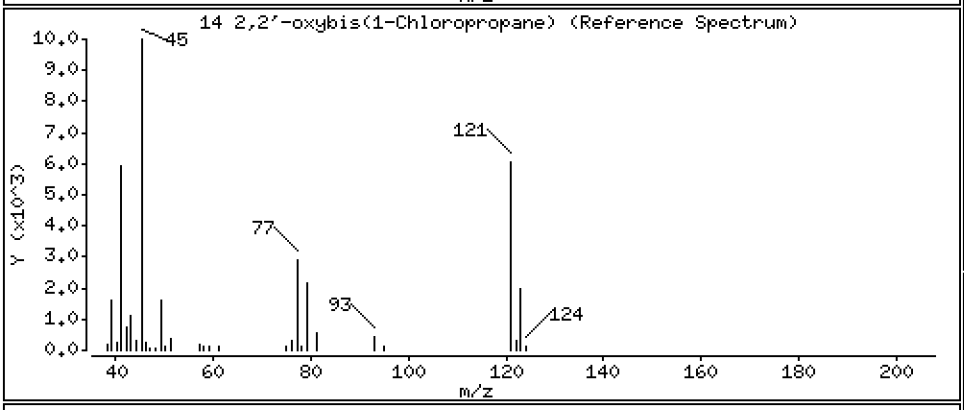
Concentration: 6.214 ug/mL

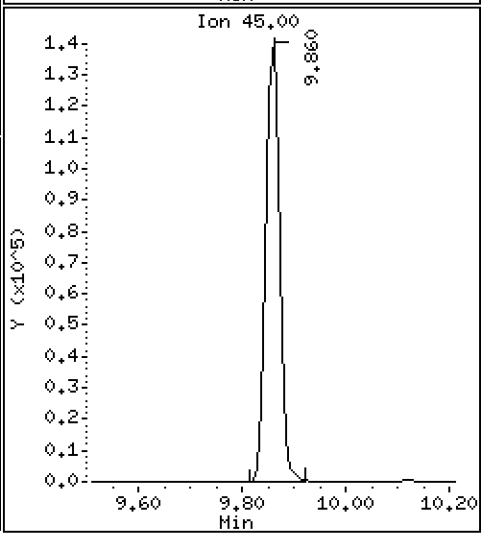


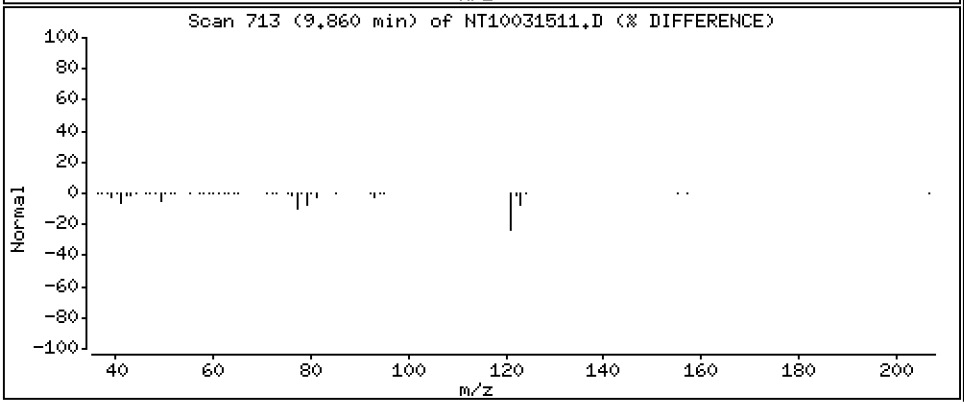












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

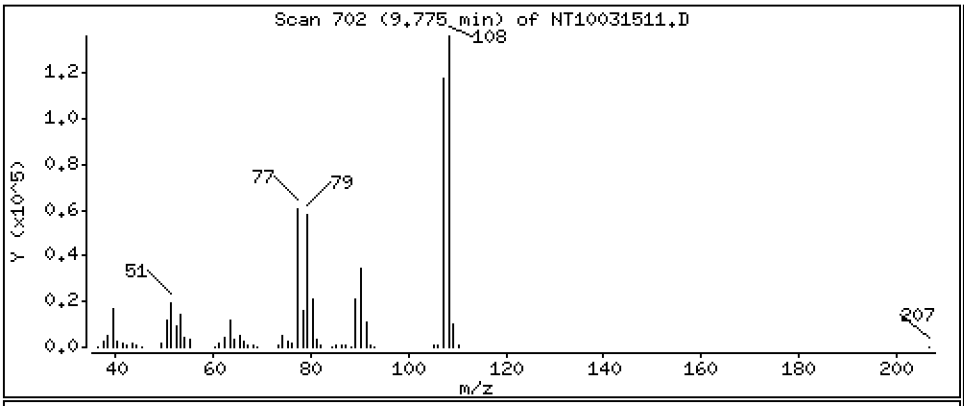
Operator: VTS

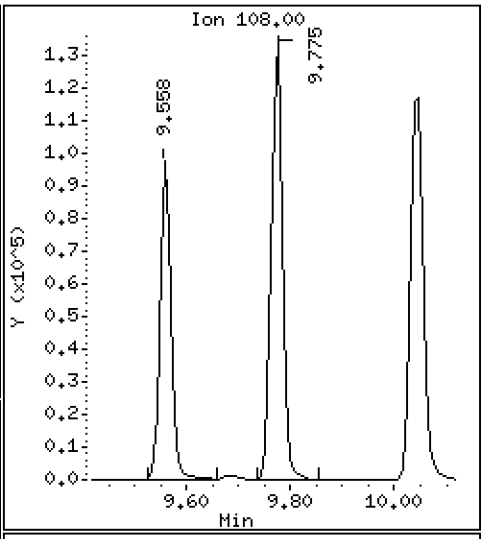
Column phase: ZB-5msi

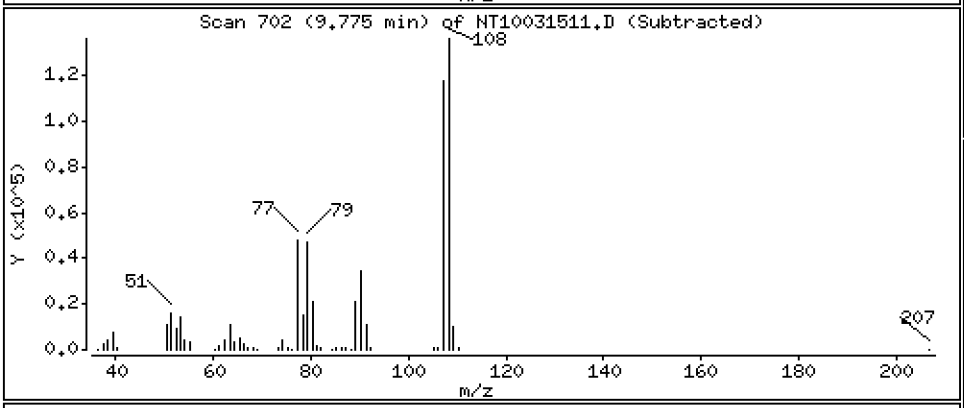
Column diameter: 0.25

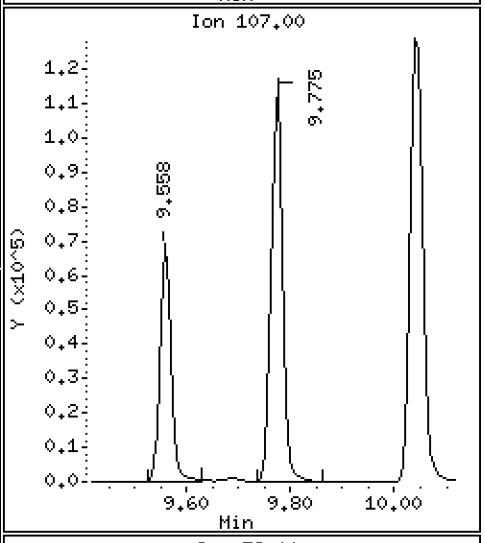
13 2-Methylphenol

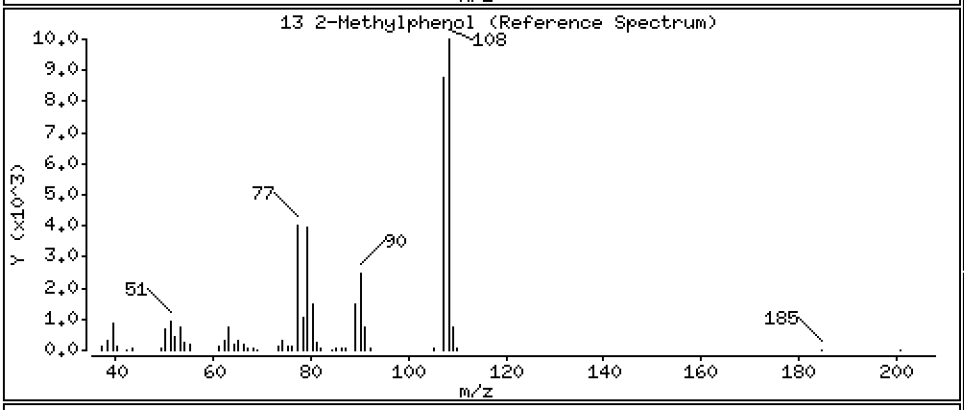
Concentration: 4.215 ug/mL

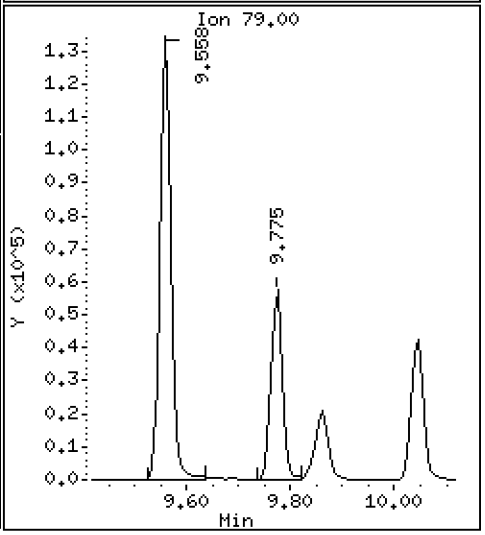


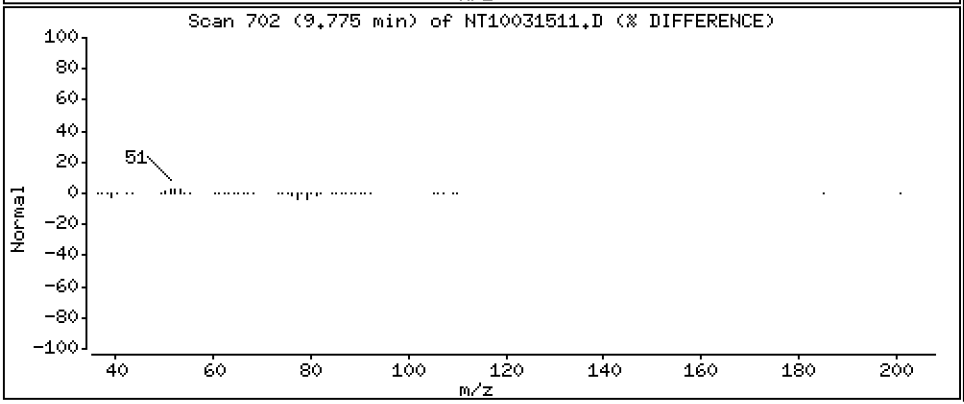












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

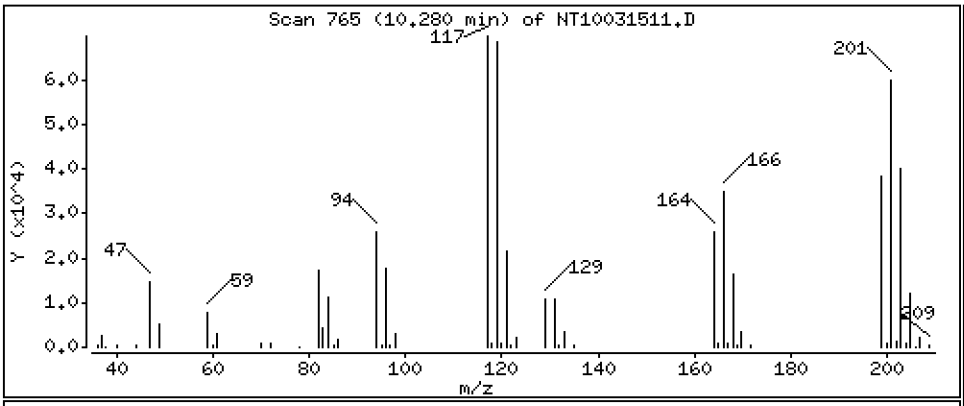
Operator: VTS

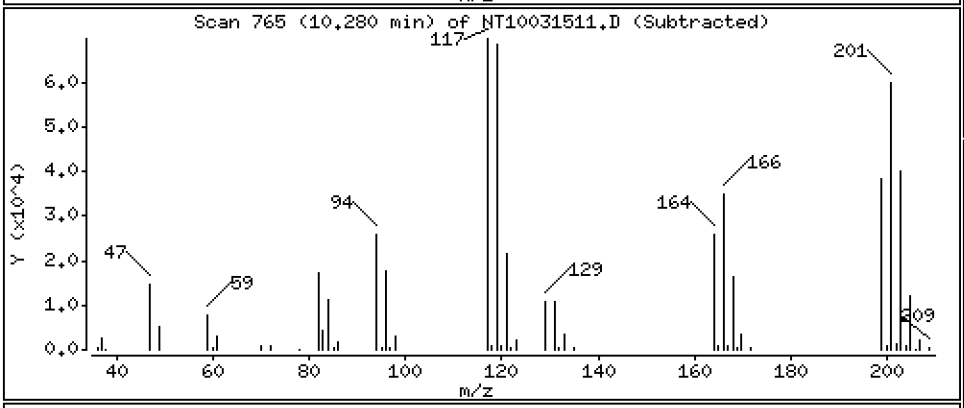
Column phase: ZB-5msi

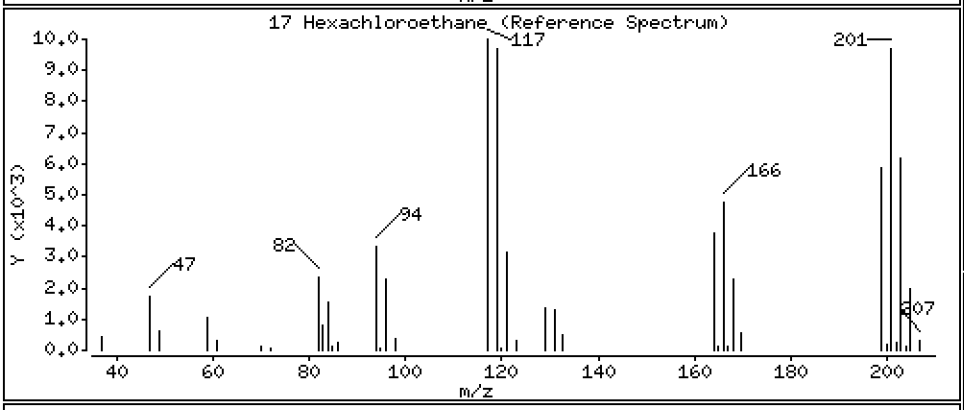
Column diameter: 0.25

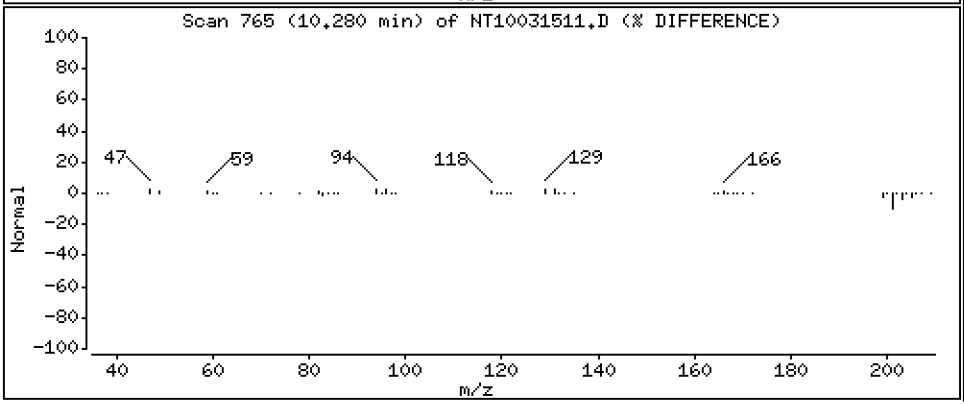
17 Hexachloroethane

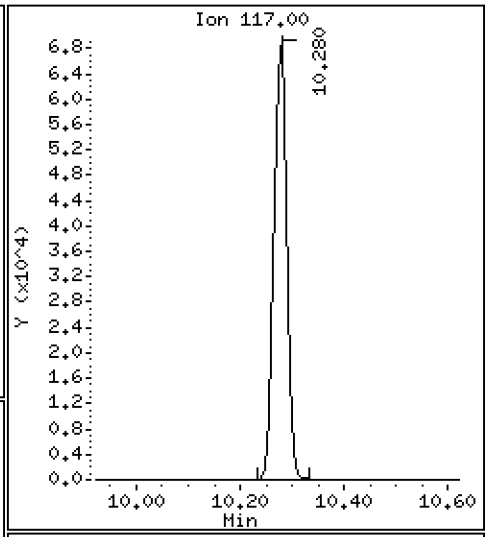
Concentration: 5.003 ug/mL

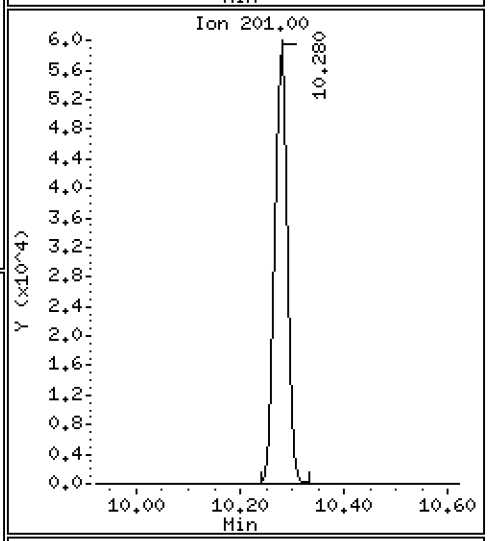


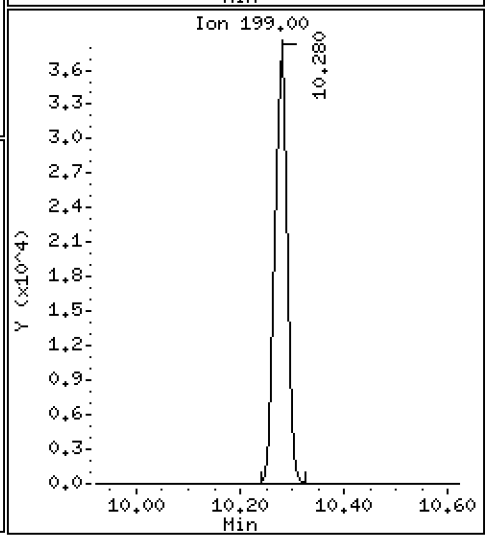












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

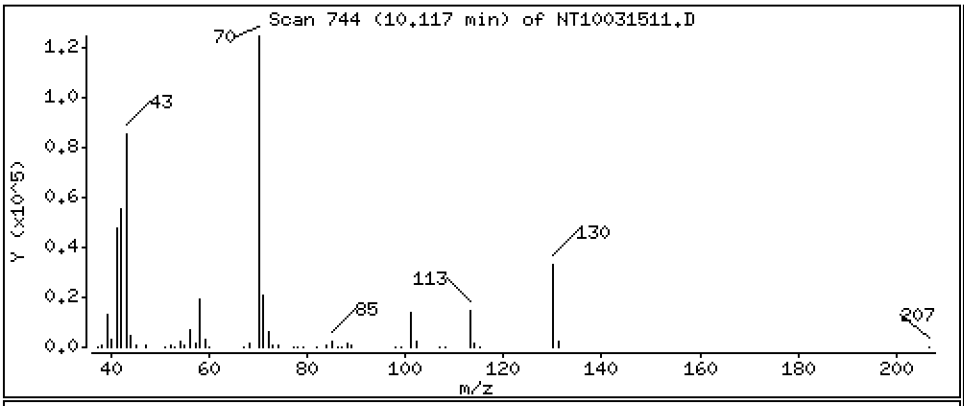
Operator: VTS

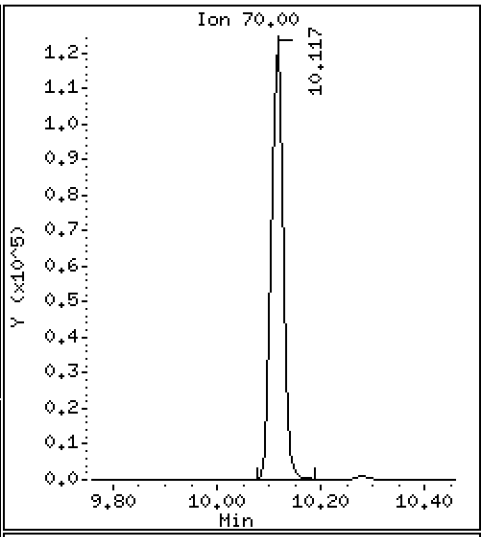
Column phase: ZB-5msi

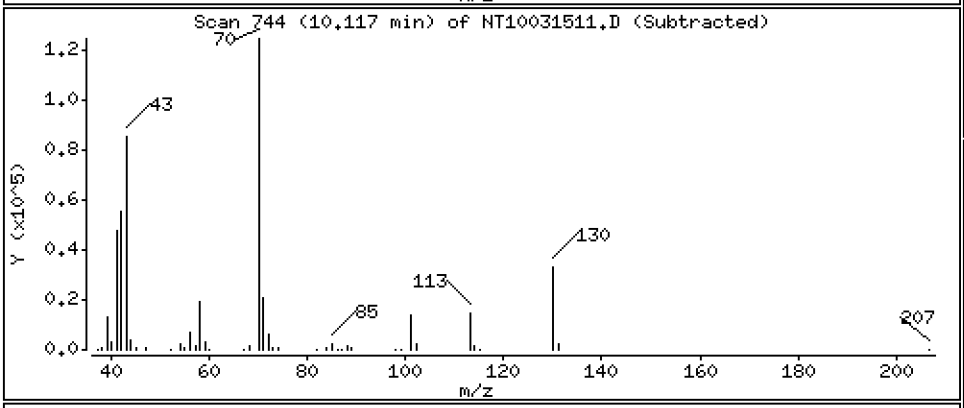
Column diameter: 0.25

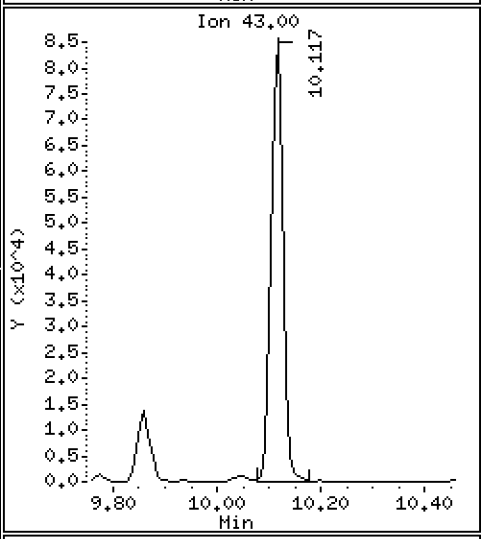
16 N-Nitroso-di-n-propylamine

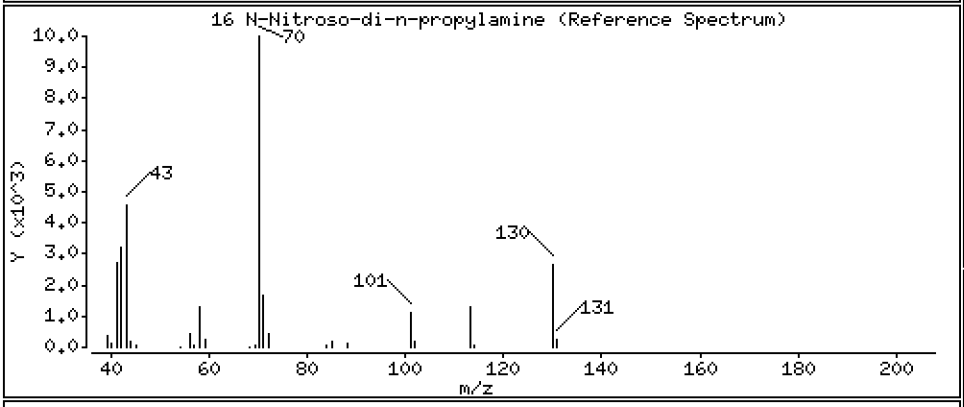
Concentration: 5.179 ug/mL

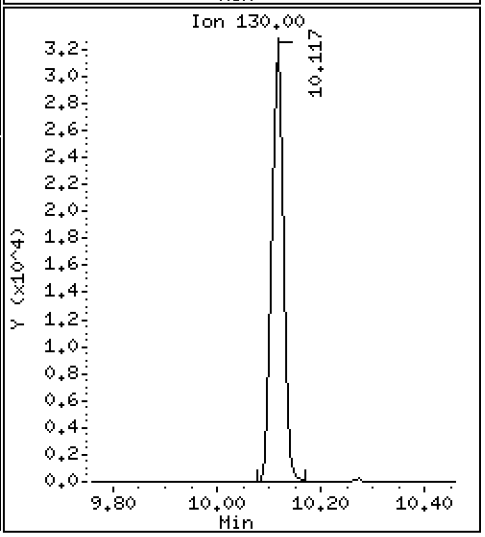


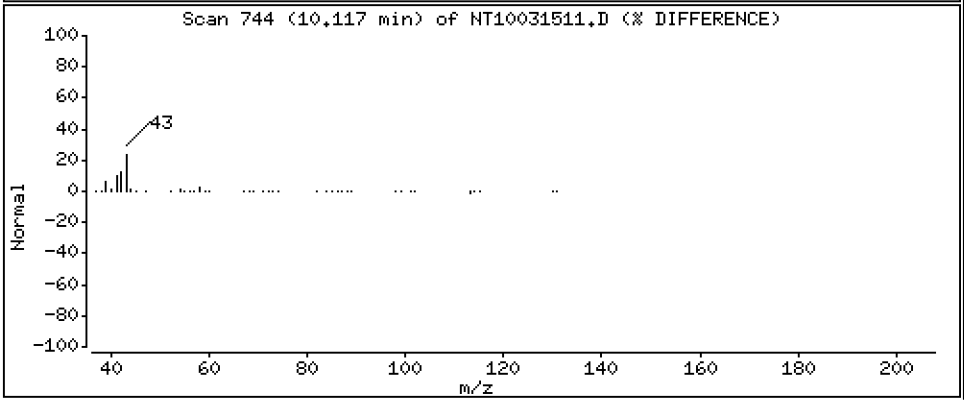












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

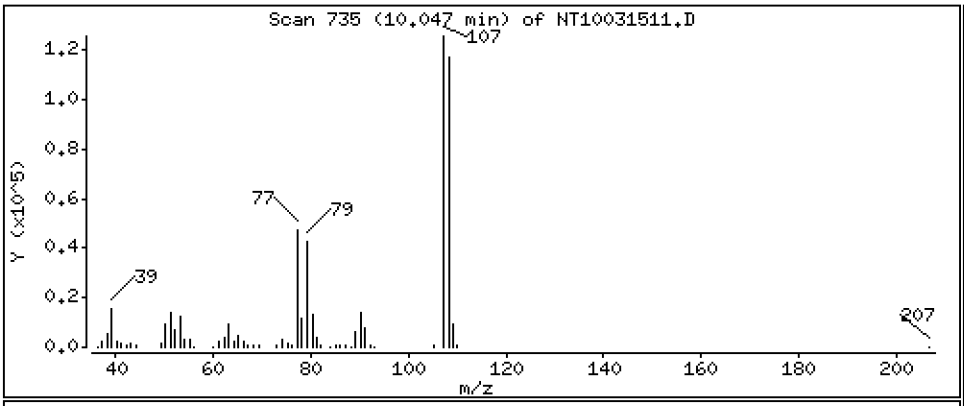
Operator: VTS

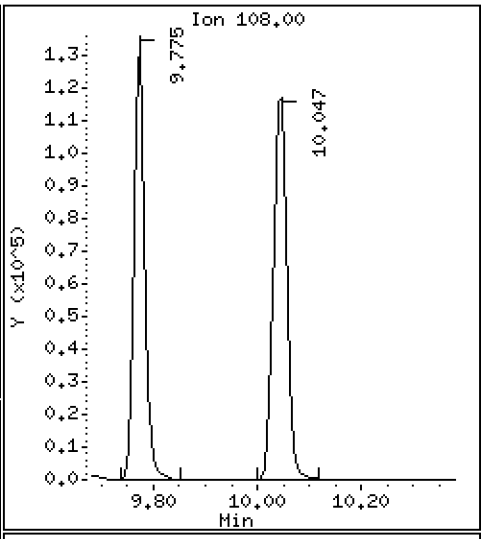
Column phase: ZB-5msi

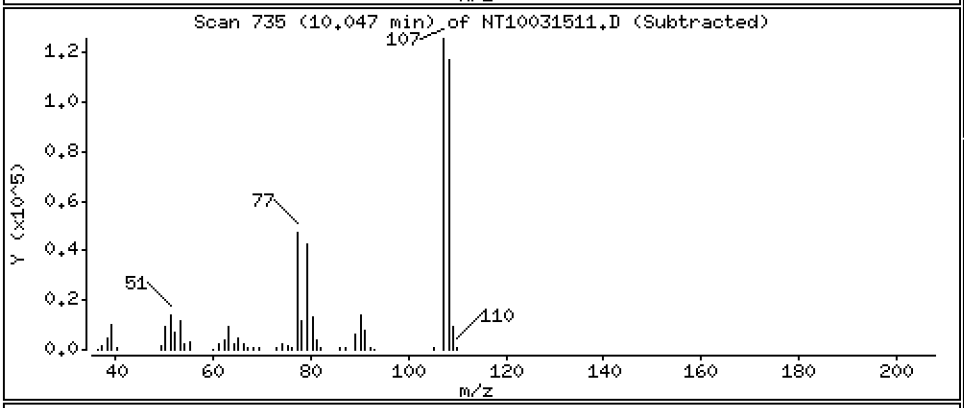
Column diameter: 0.25

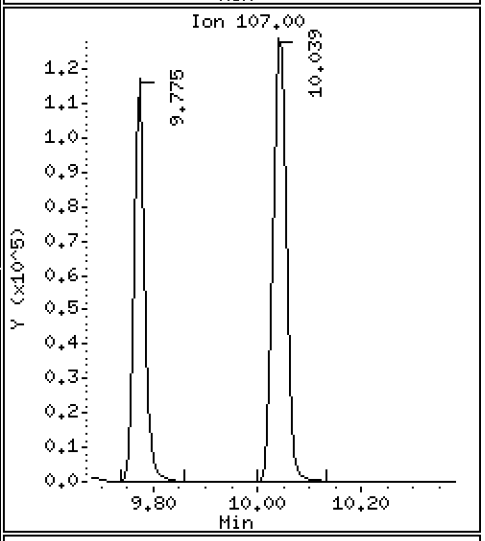
15 4-Methylphenol

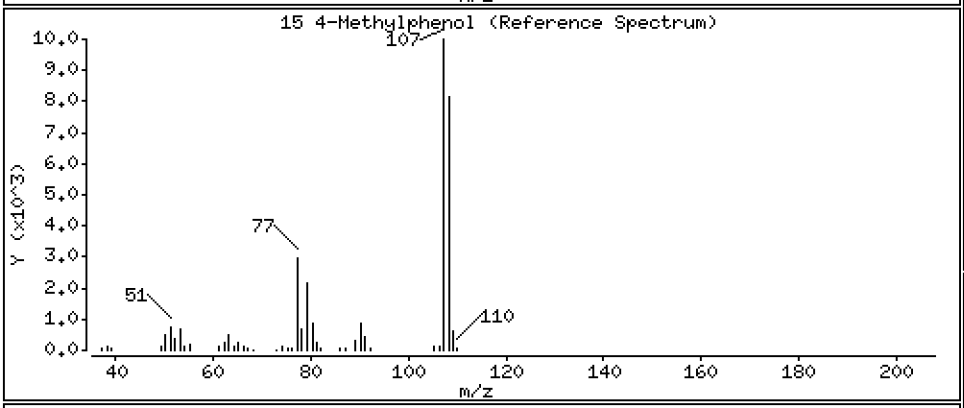
Concentration: 4.365 ug/mL

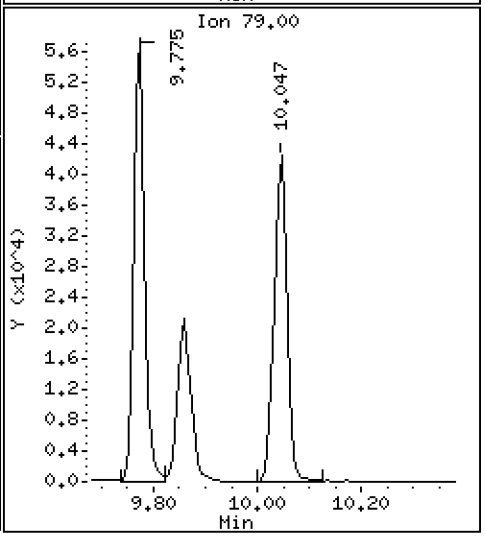


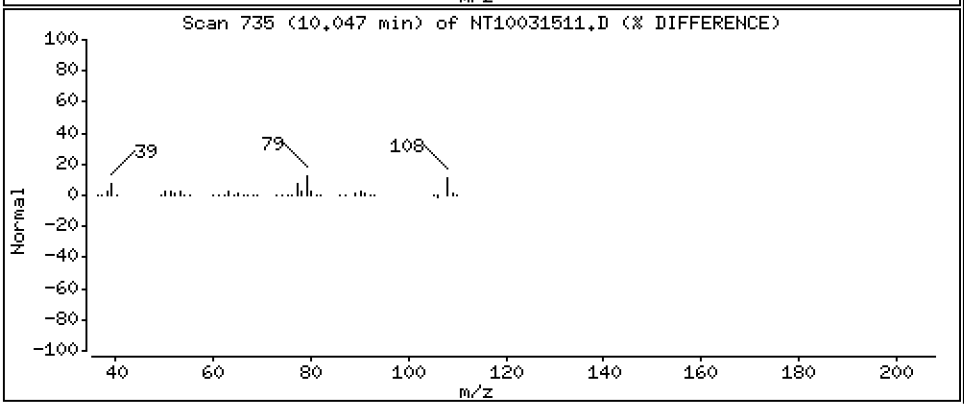












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

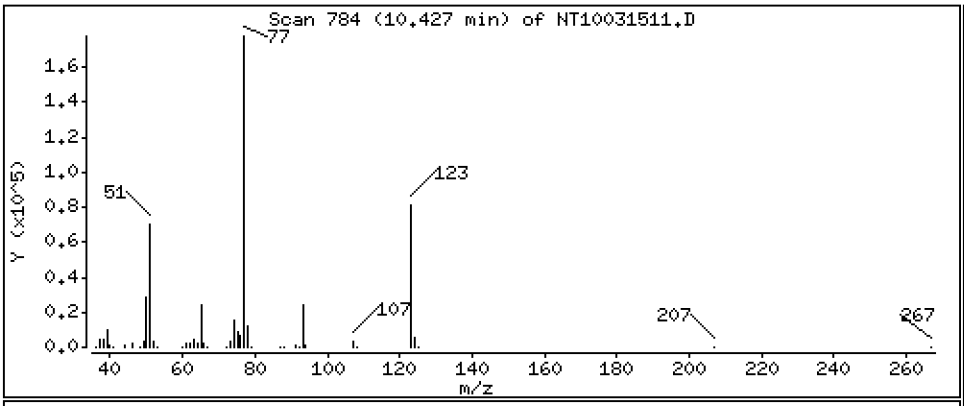
Operator: VTS

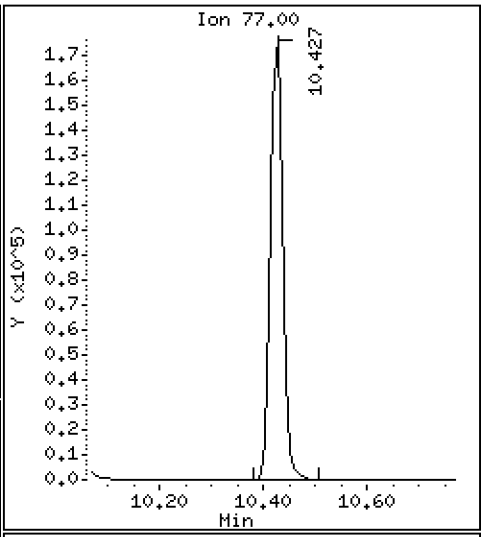
Column phase: ZB-5msi

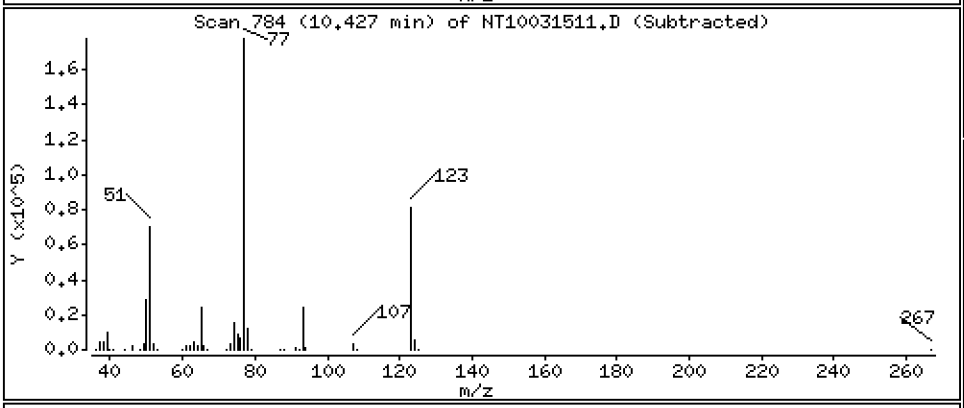
Column diameter: 0.25

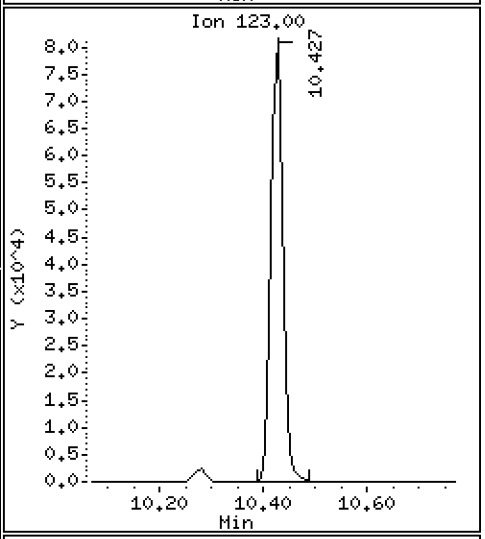
19 Nitrobenzene

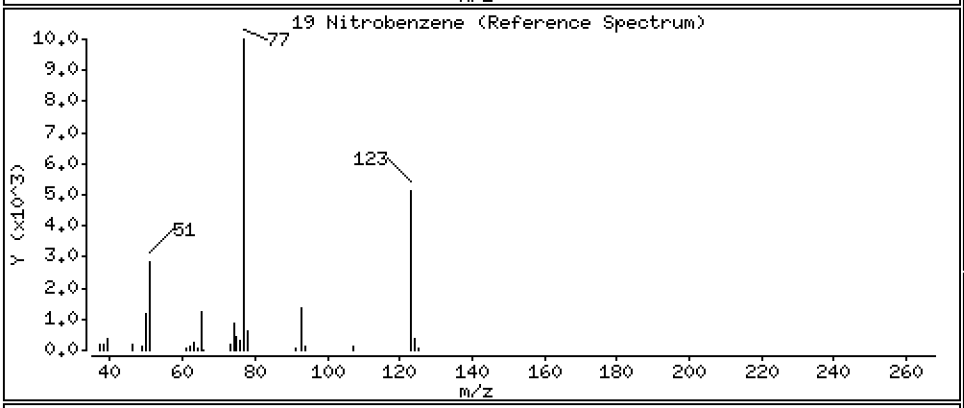
Concentration: 4.858 ug/mL

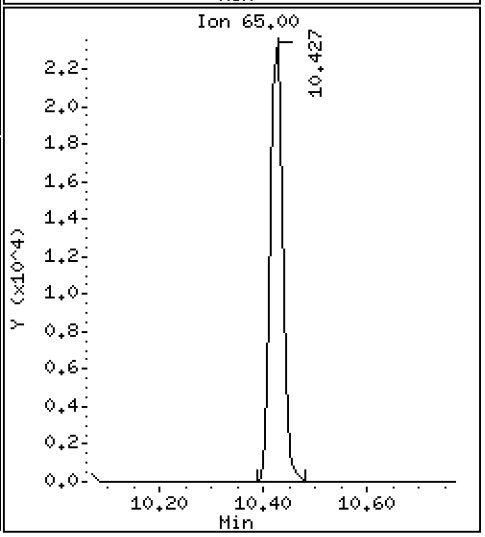


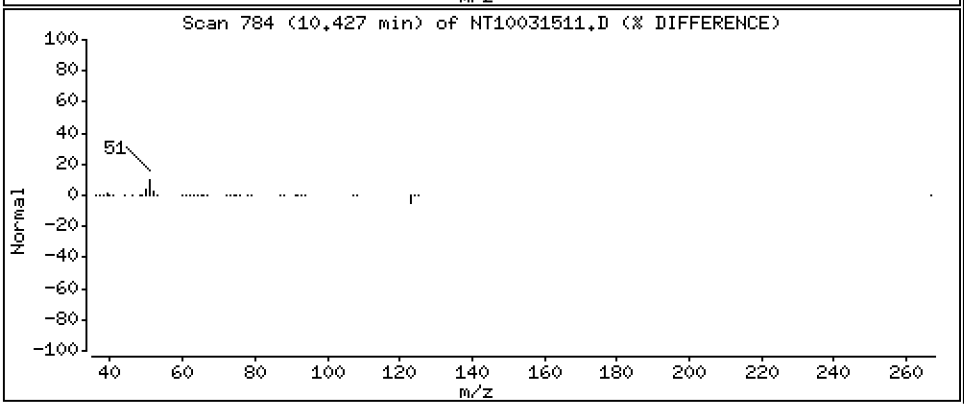












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

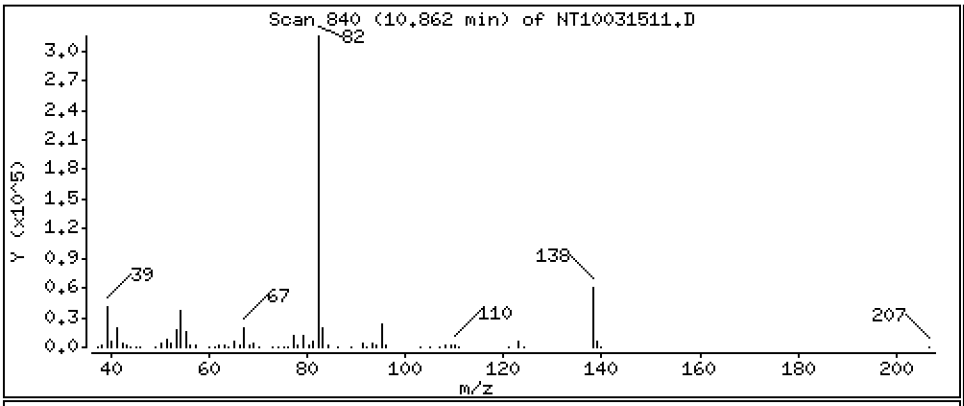
Operator: VTS

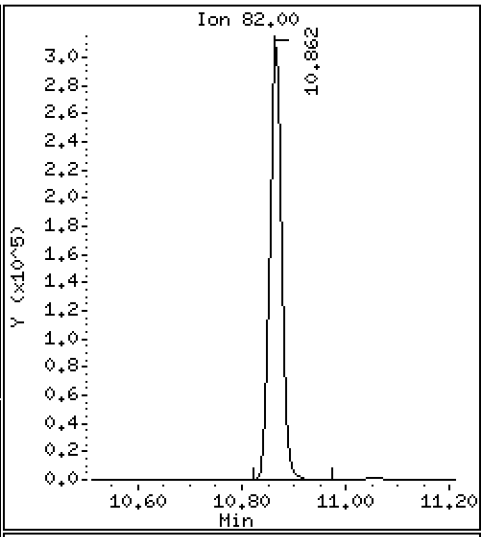
Column phase: ZB-5msi

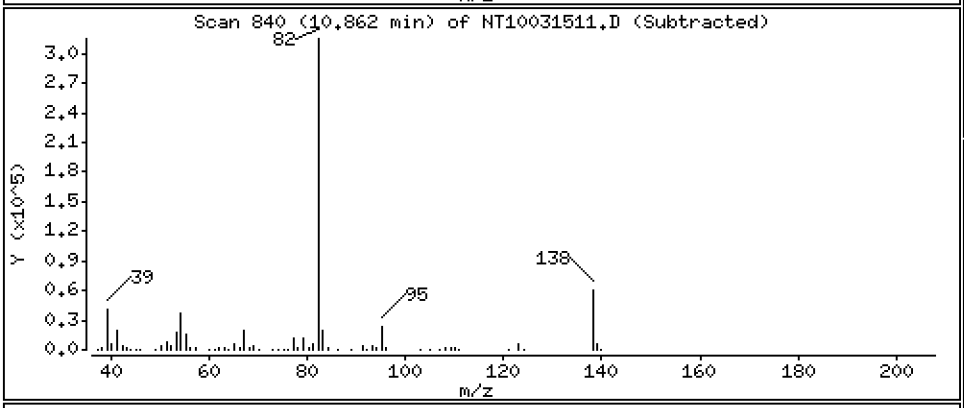
Column diameter: 0.25

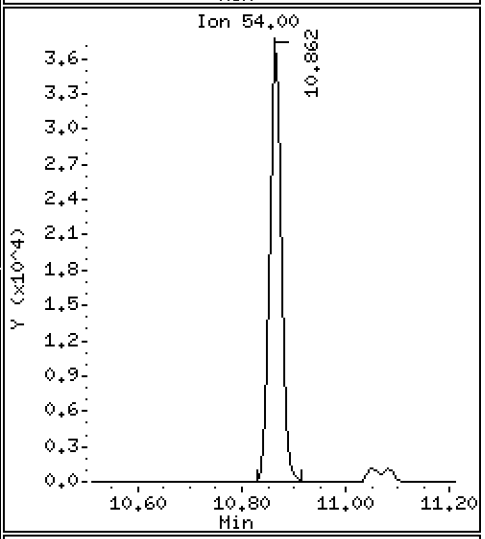
20 Isophorone

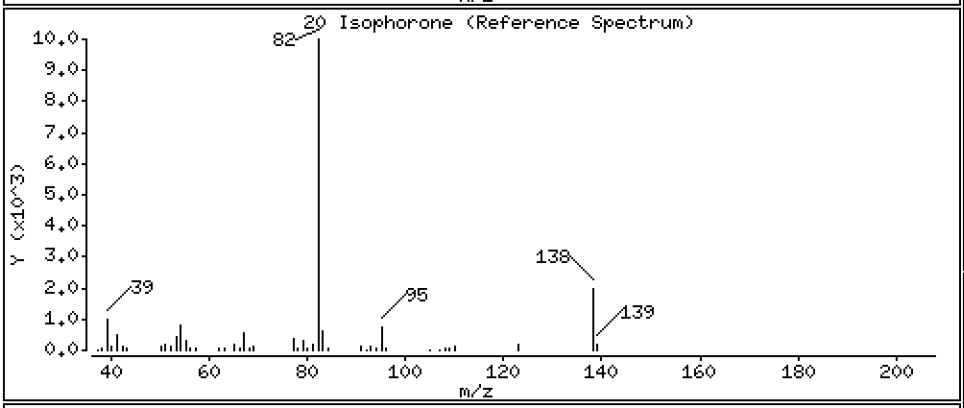
Concentration: 7.696 ug/mL

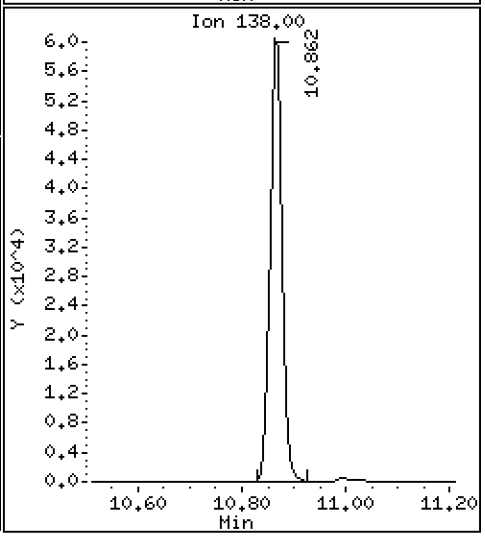


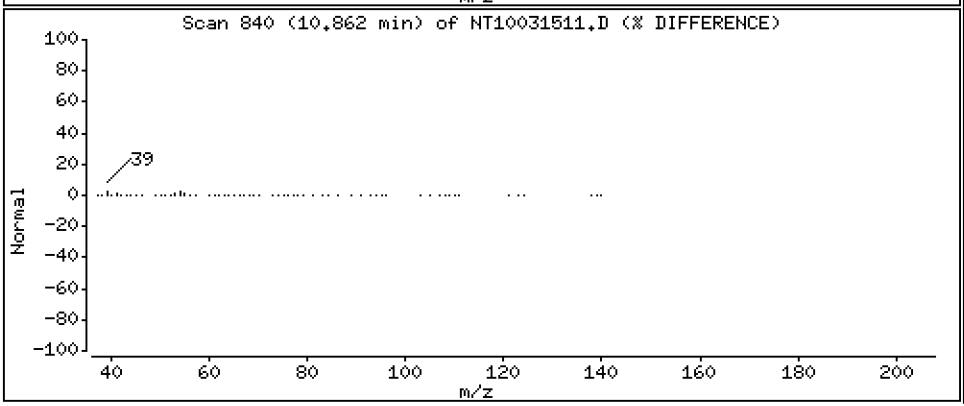












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

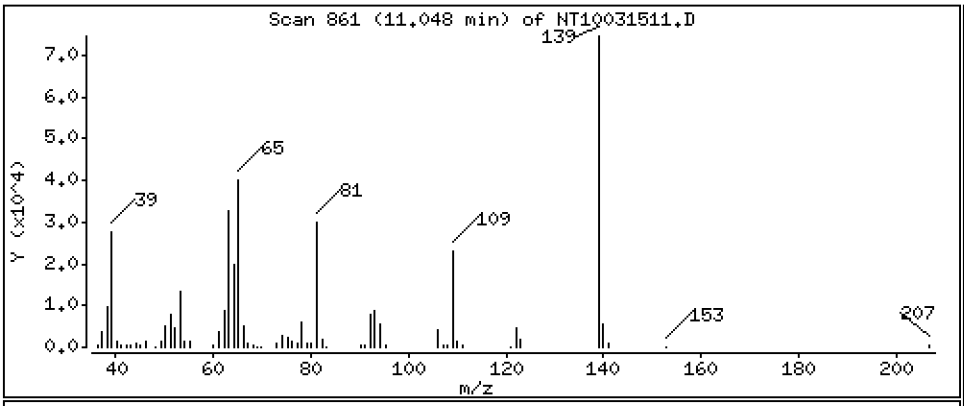
Operator: VTS

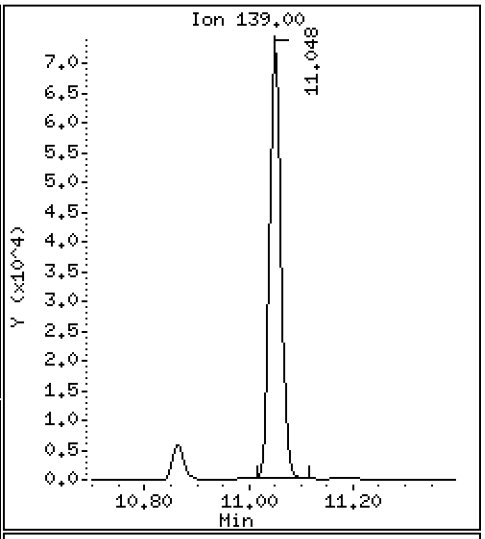
Column phase: ZB-5msi

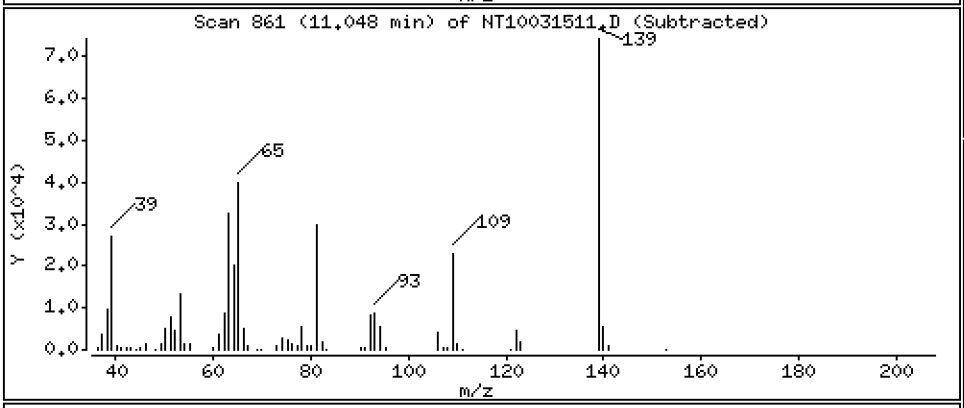
Column diameter: 0.25

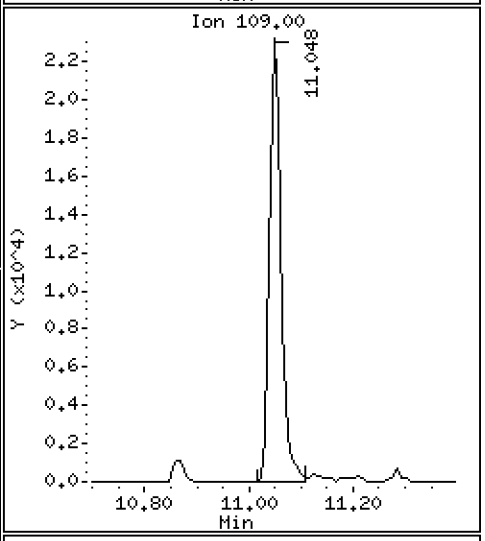
21 2-Nitrophenol

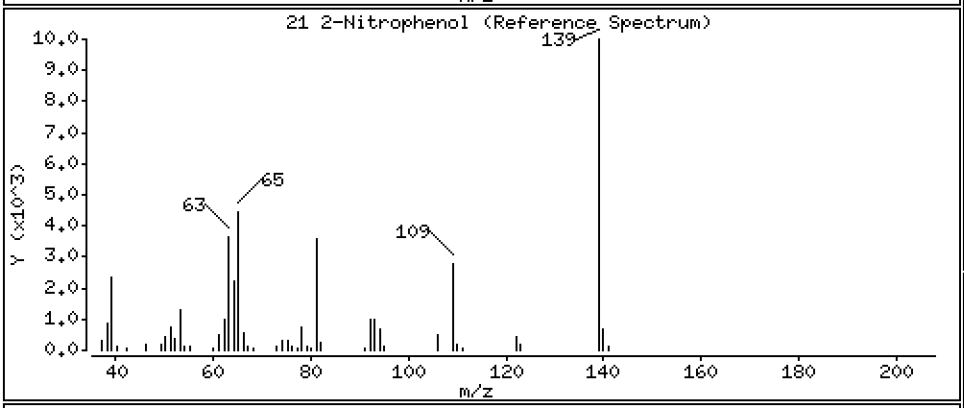
Concentration: 3.995 ug/mL

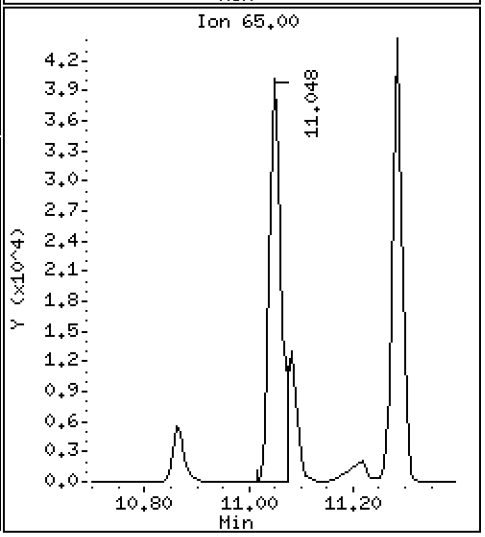


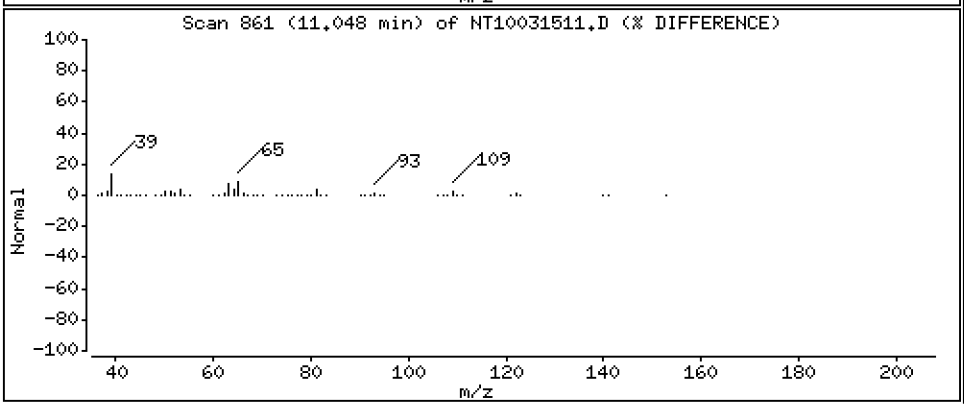












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

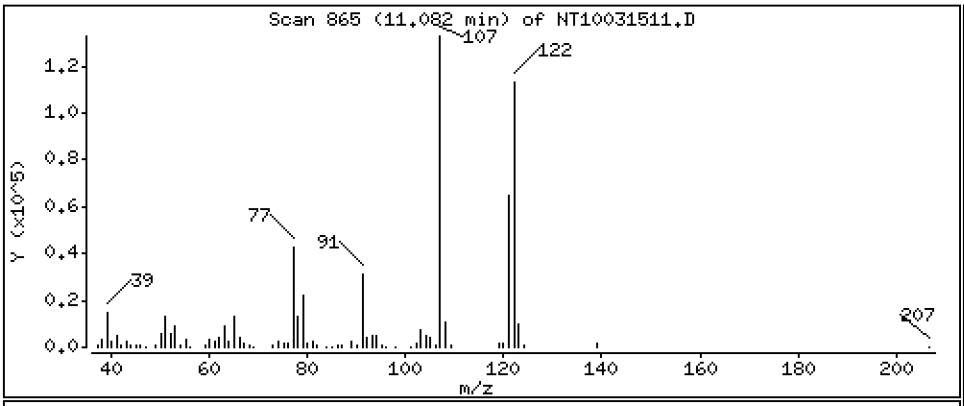
Operator: VTS

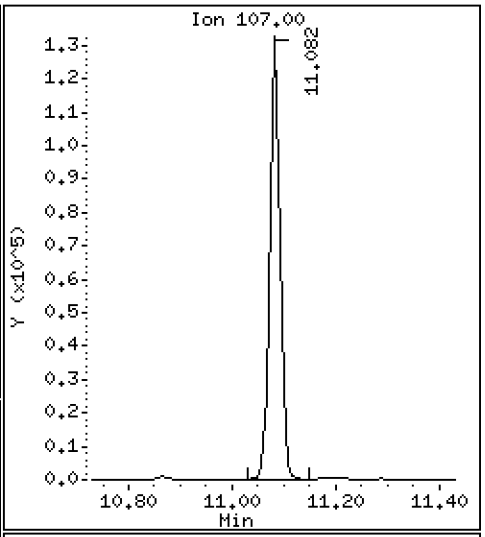
Column phase: ZB-5msi

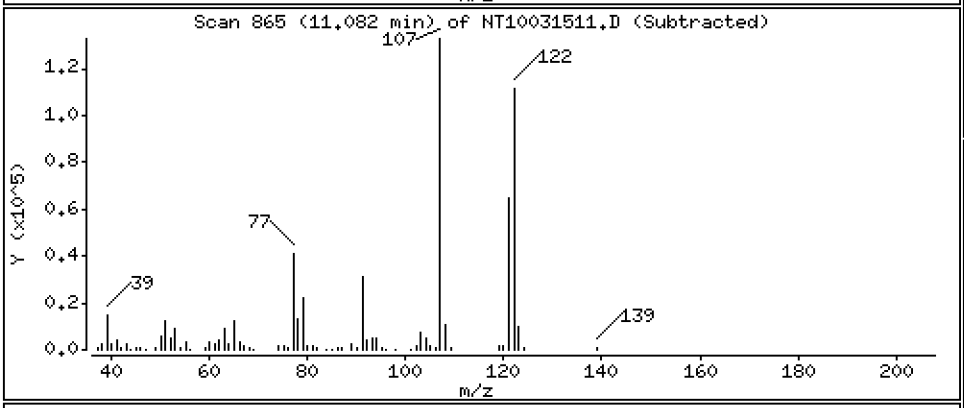
Column diameter: 0.25

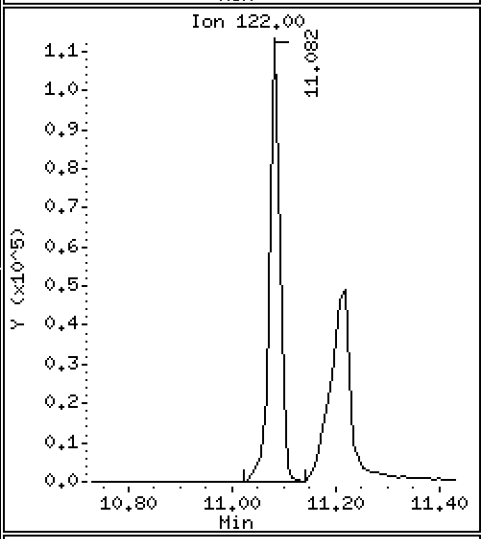
22 2,4-Dimethylphenol

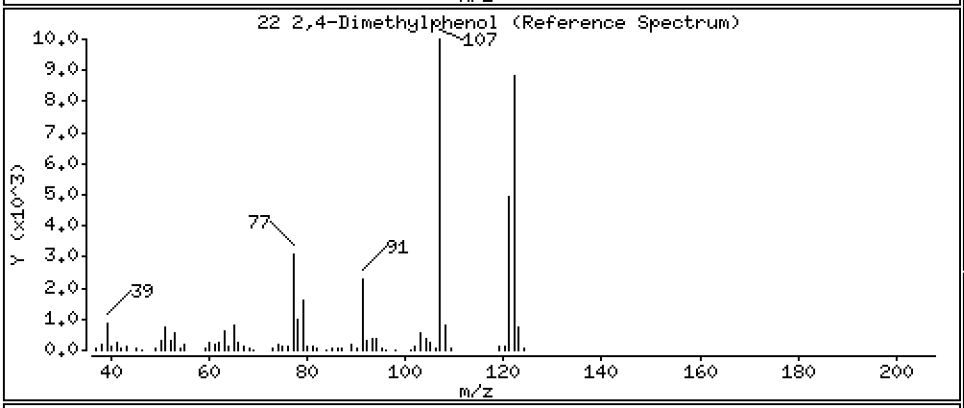
Concentration: 3.632 ug/mL

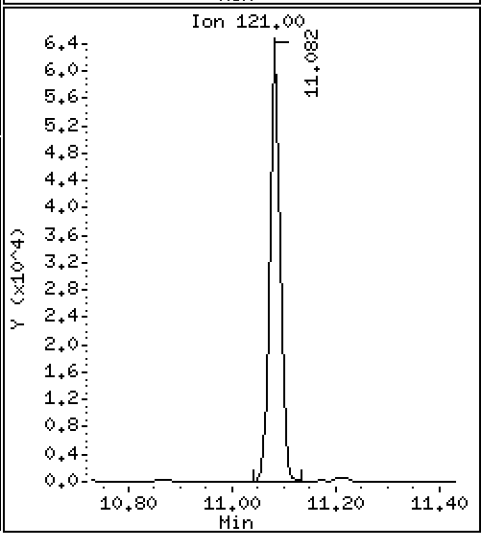


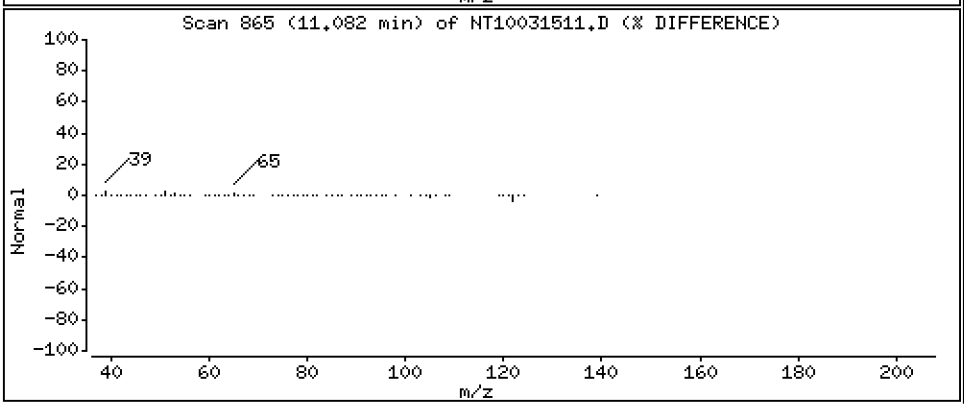












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

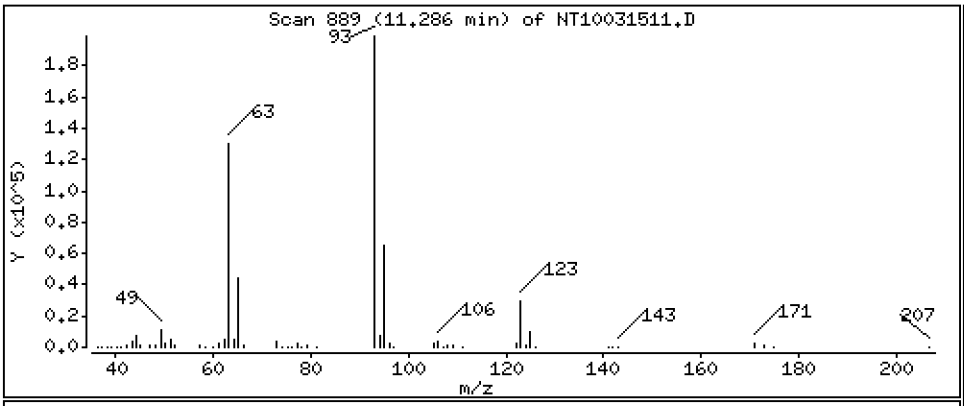
Operator: VTS

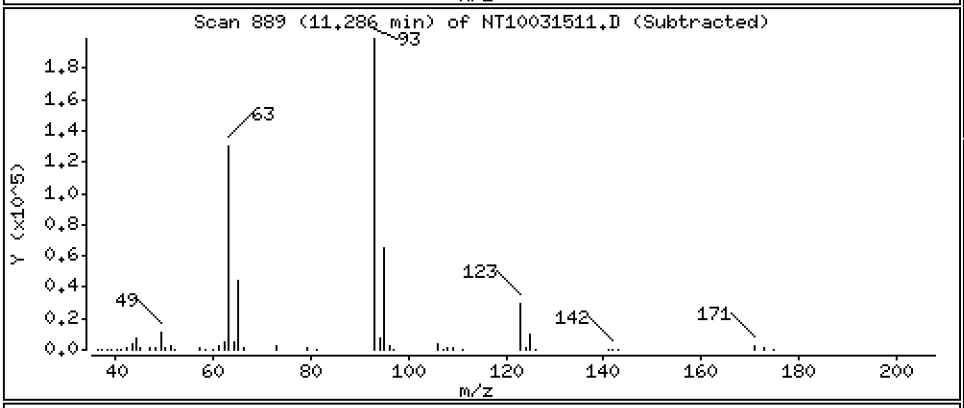
Column phase: ZB-5msi

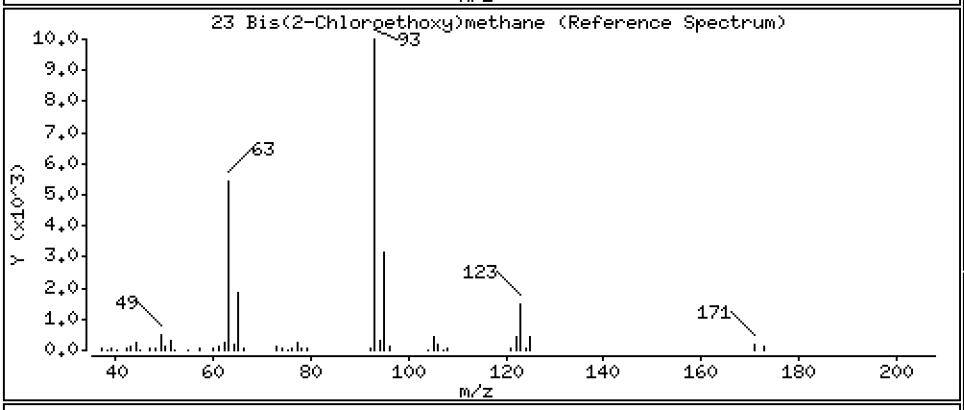
Column diameter: 0.25

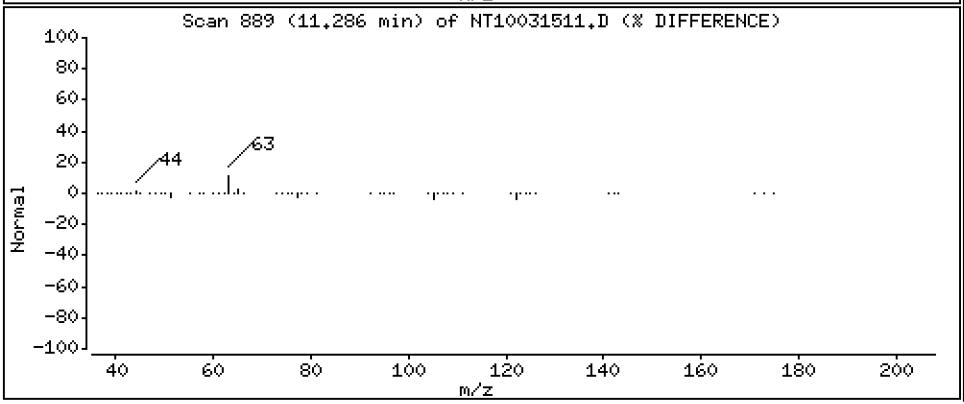
23 Bis(2-Chloroethoxy)methane

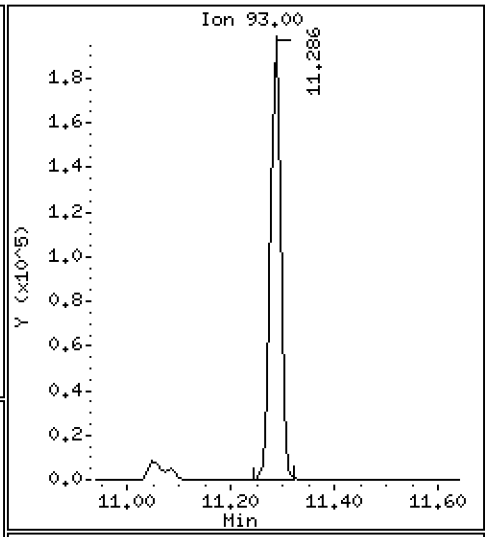
Concentration: 5.654 ug/mL

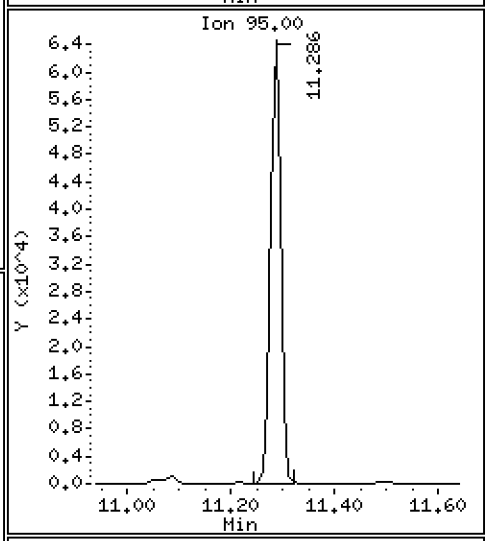


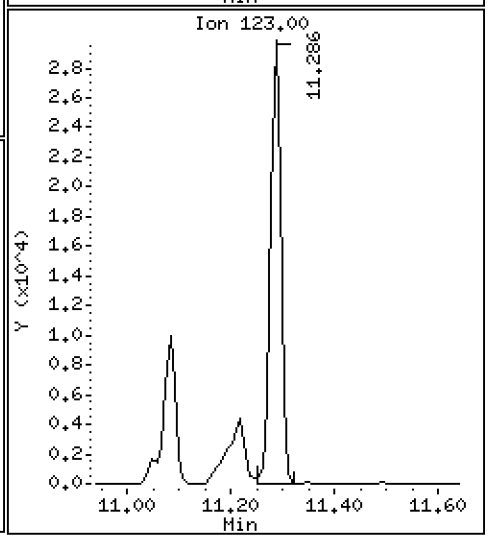












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

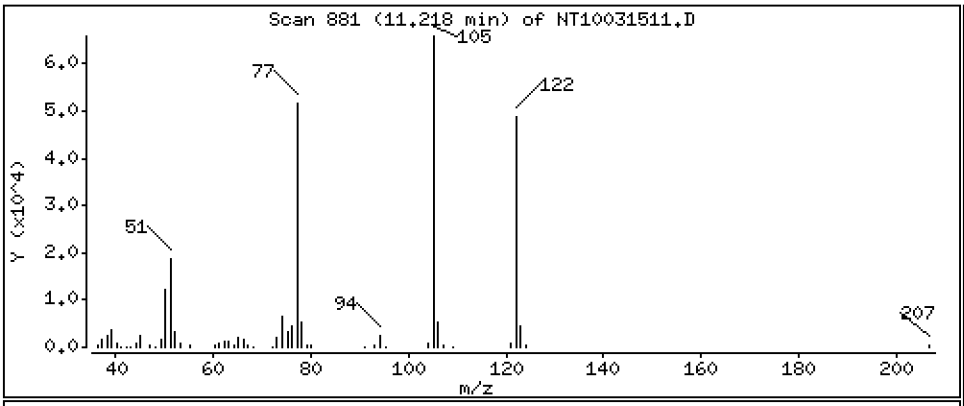
Operator: VTS

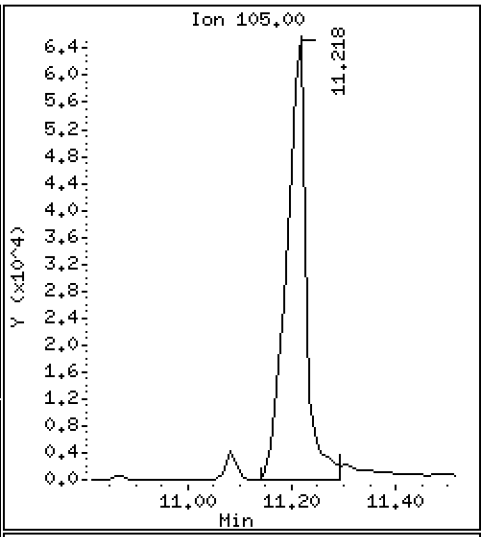
Column phase: ZB-5msi

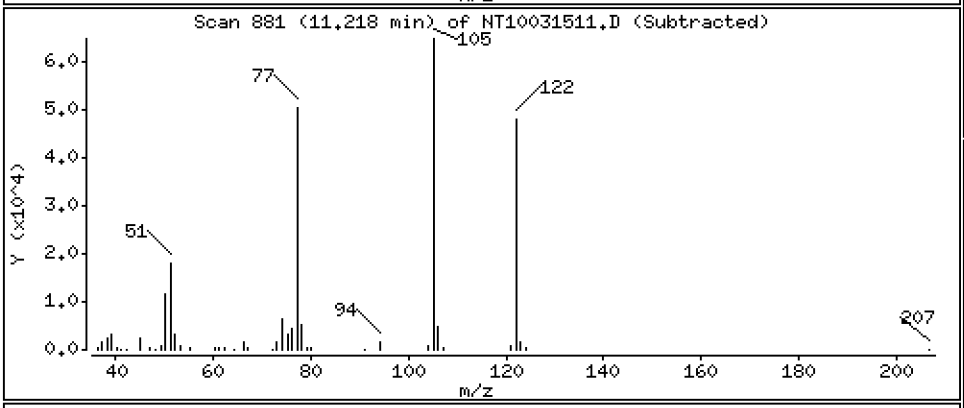
Column diameter: 0.25

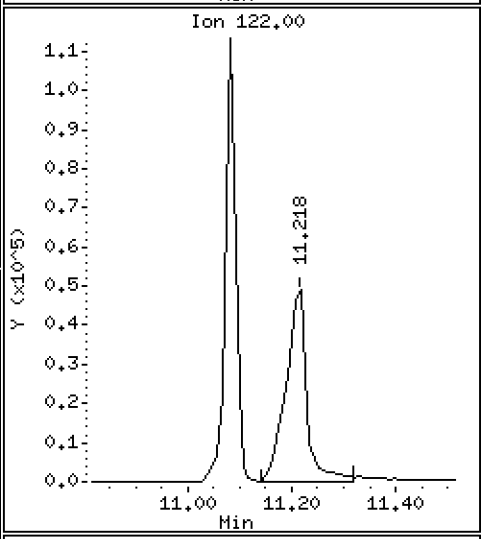
24 Benzoic acid

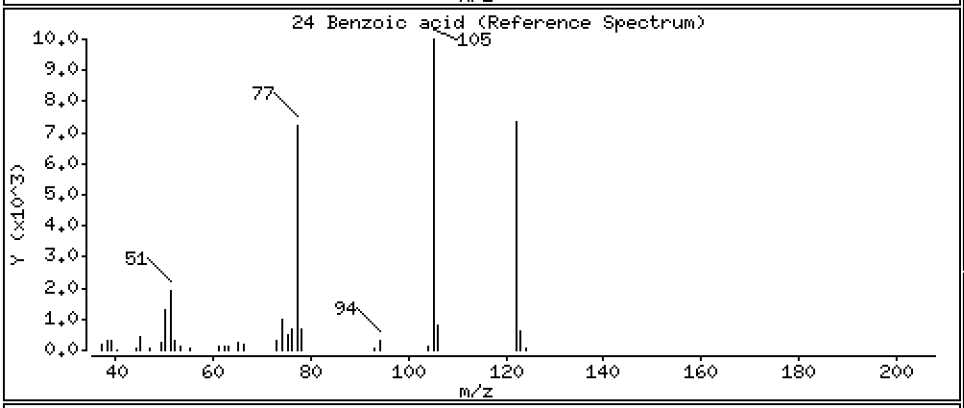
Concentration: 5.952 ug/mL

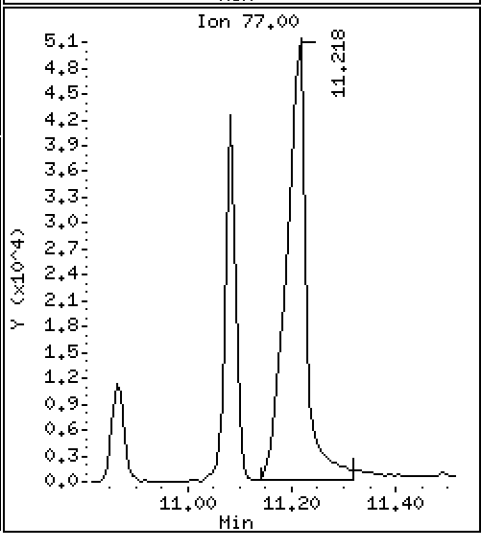


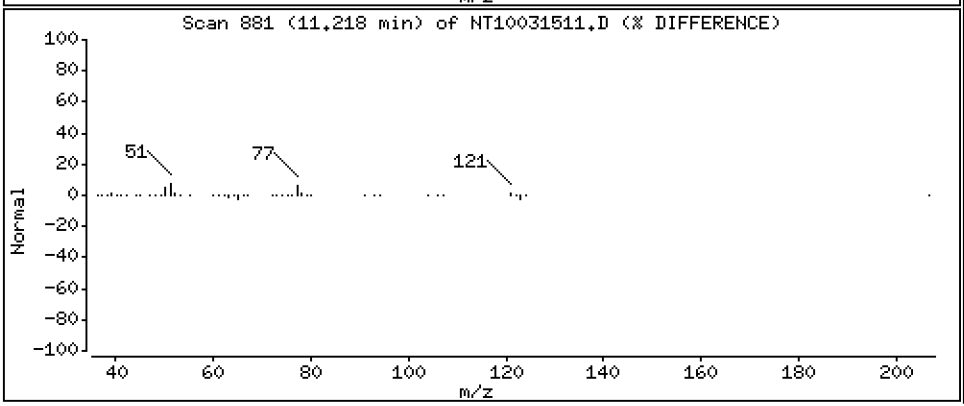












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

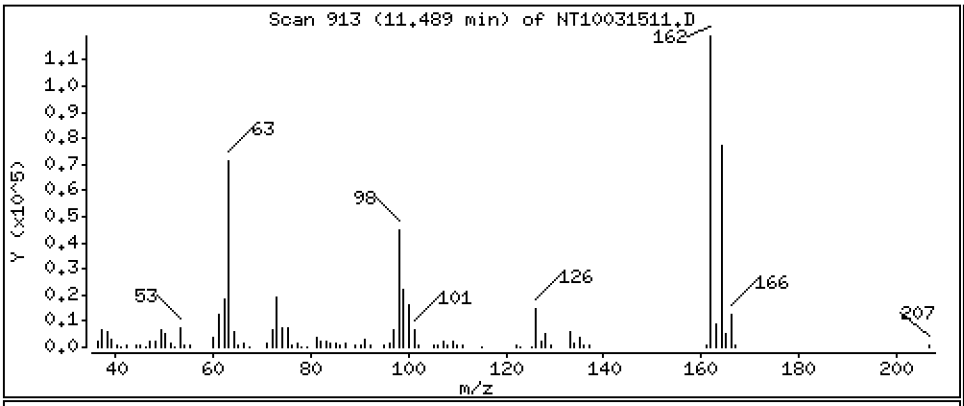
Operator: VTS

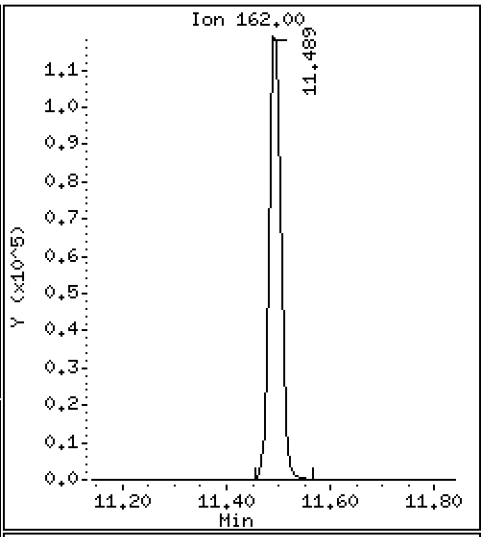
Column phase: ZB-5msi

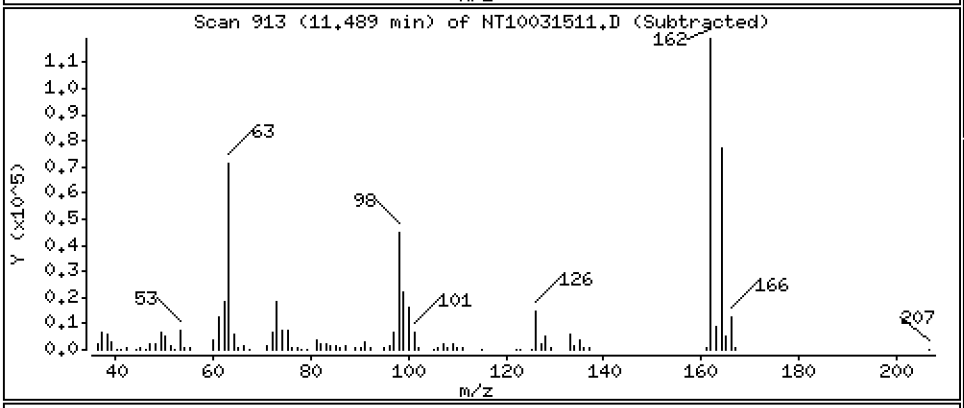
Column diameter: 0.25

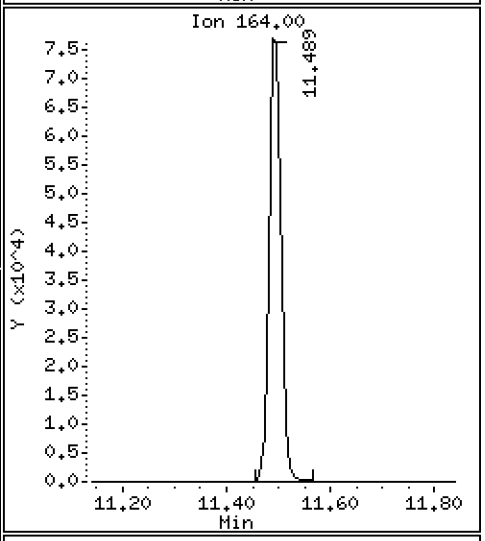
25 2,4-Dichlorophenol

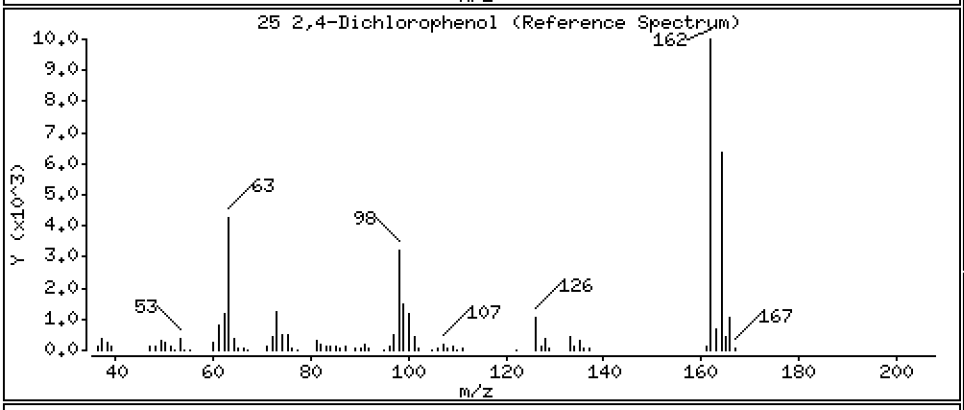
Concentration: 4.703 ug/mL

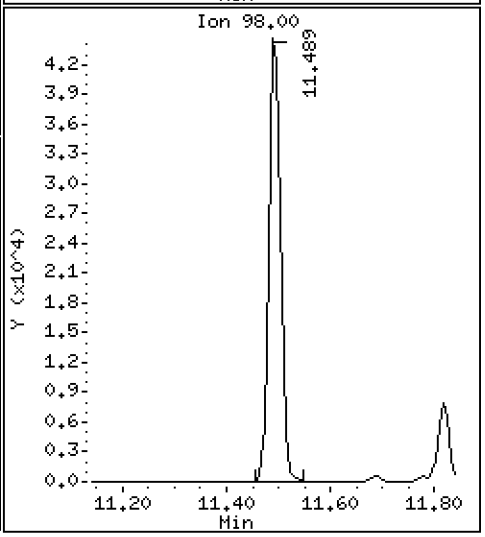


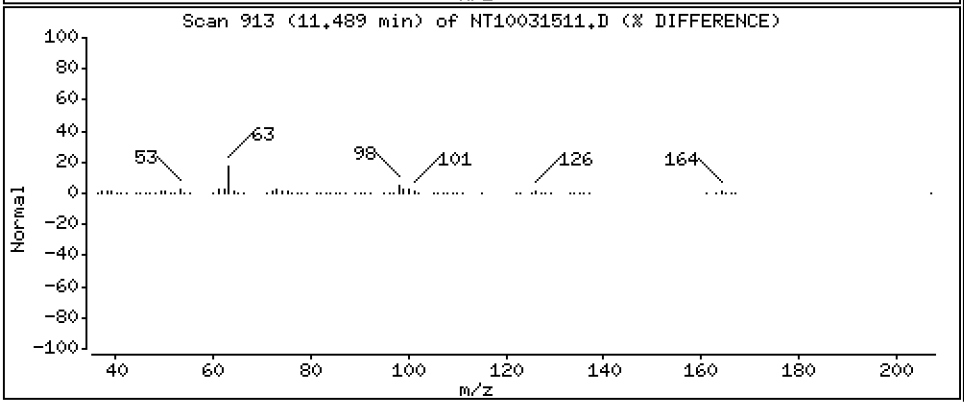












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

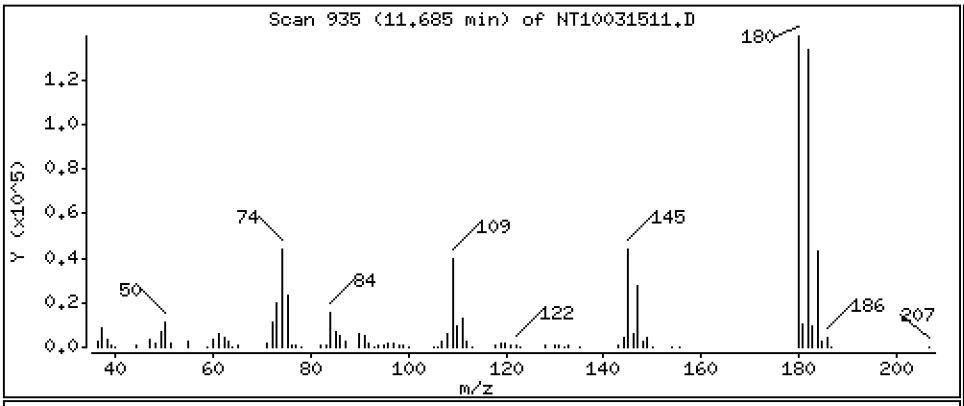
Operator: VTS

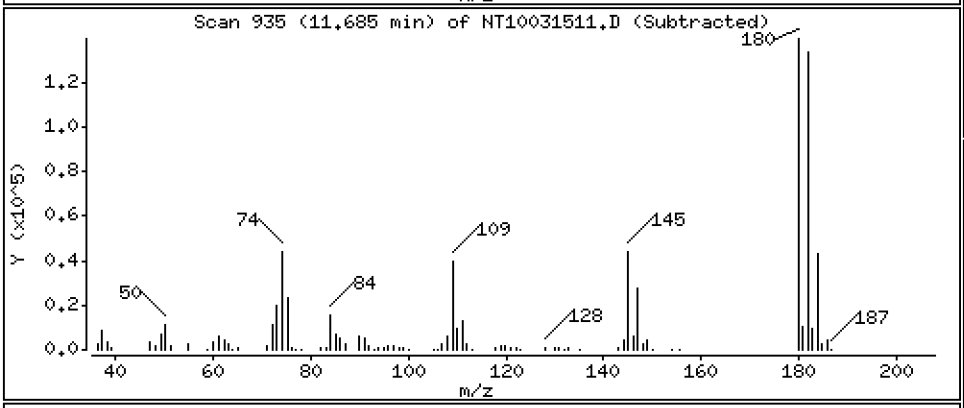
Column phase: ZB-5msi

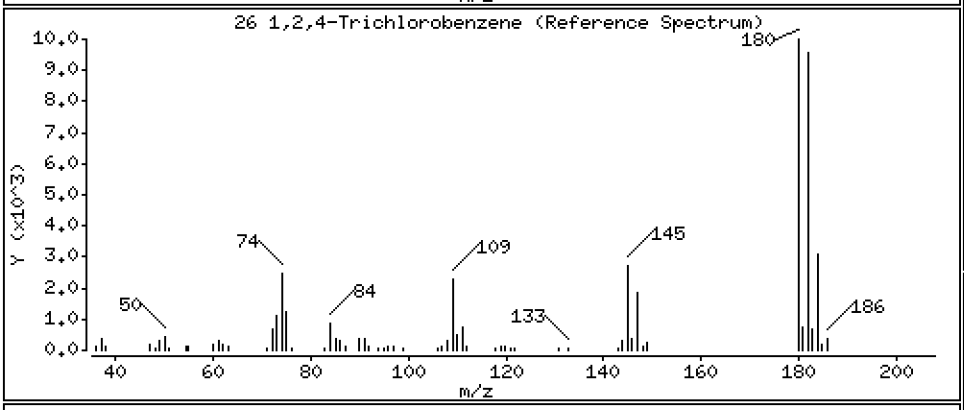
Column diameter: 0.25

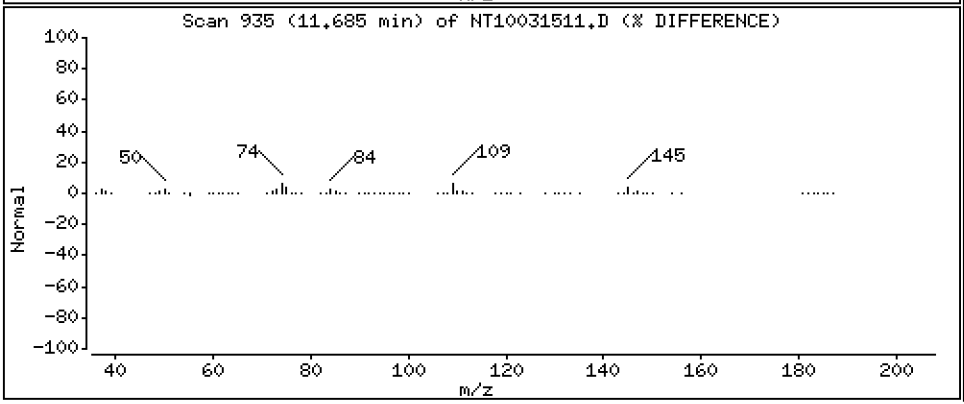
26 1,2,4-Trichlorobenzene

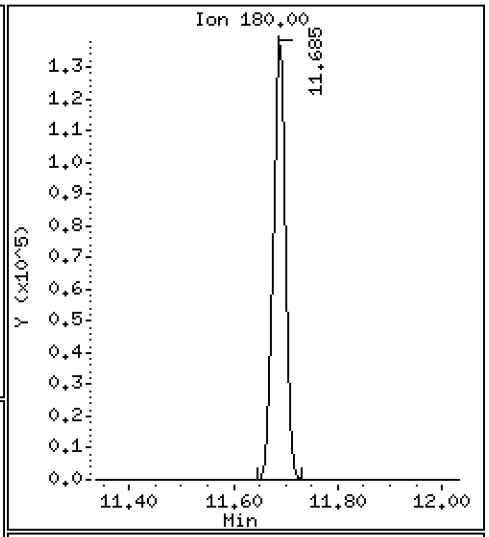
Concentration: 4.554 ug/mL

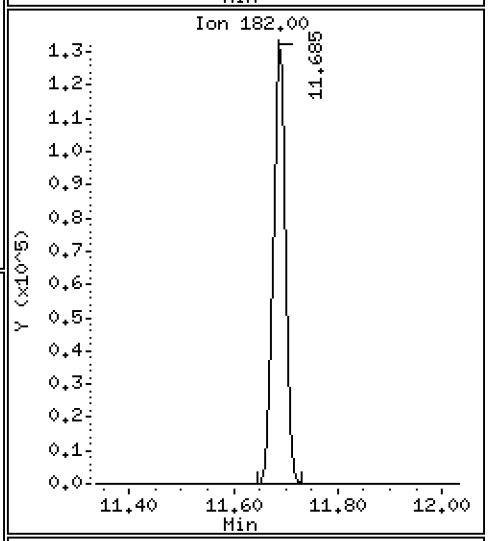


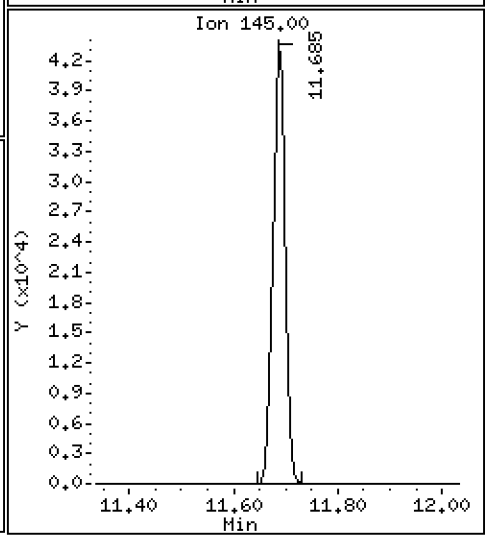












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

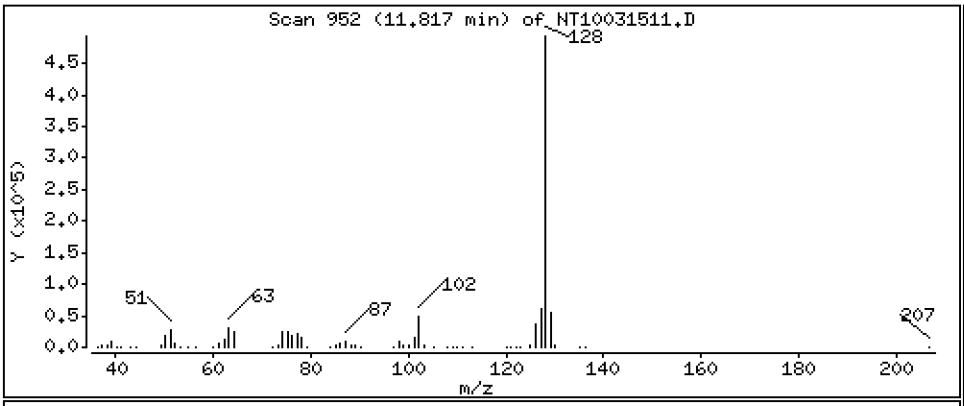
Operator: VTS

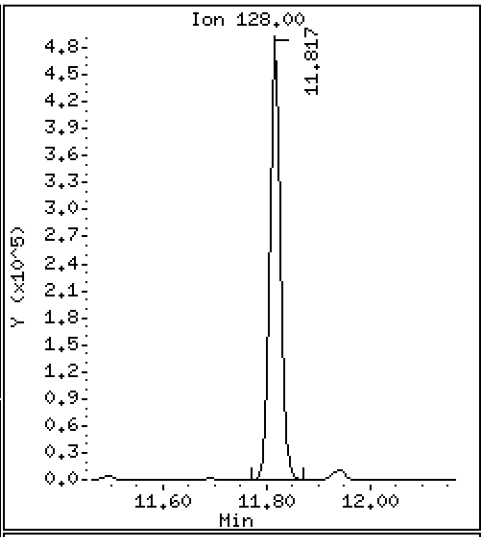
Column phase: ZB-5msi

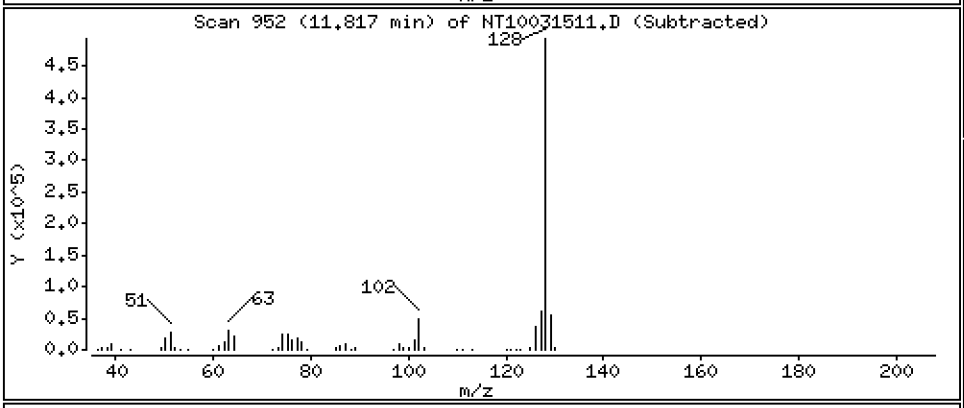
Column diameter: 0.25

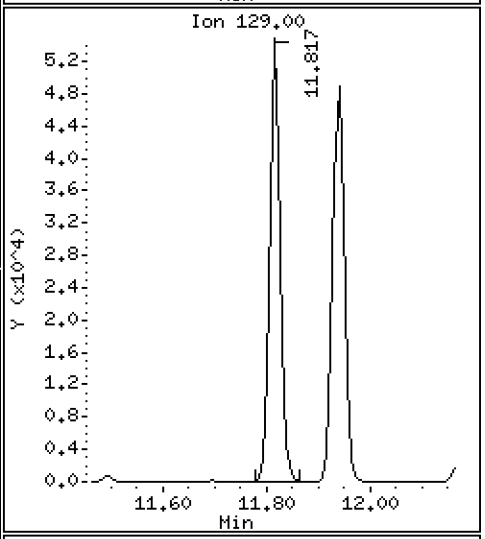
28 Naphthalene

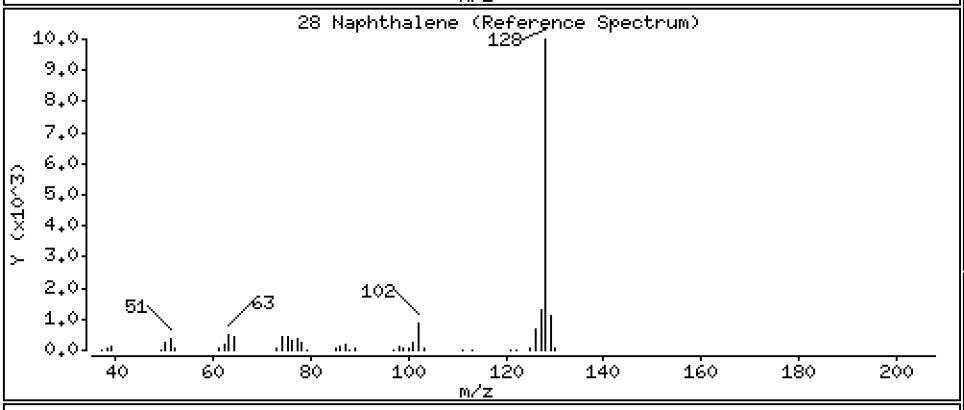
Concentration: 4.717 ug/mL

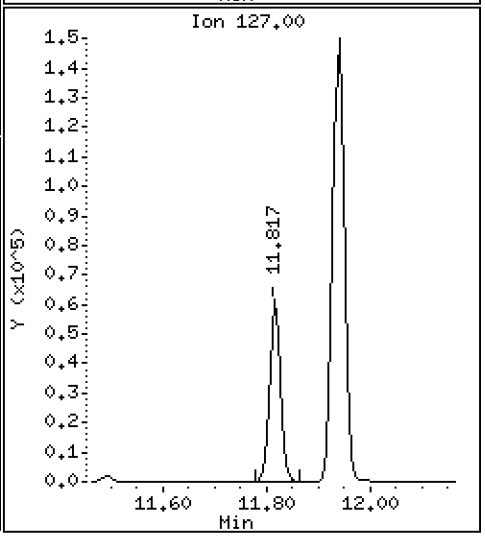


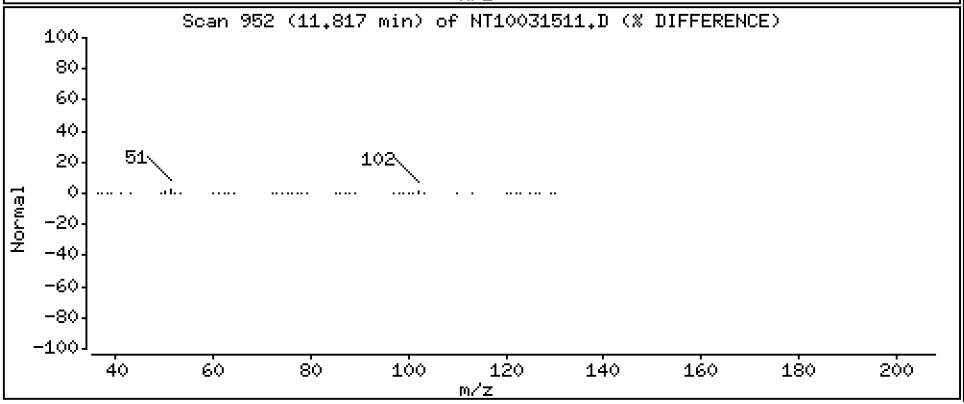












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

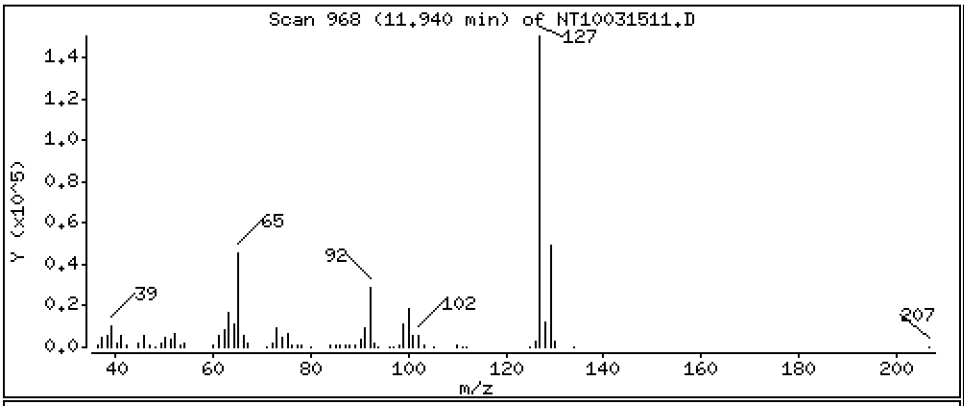
Operator: VTS

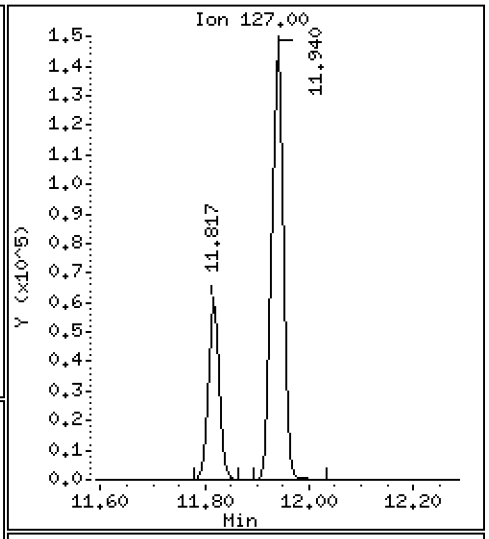
Column phase: ZB-5msi

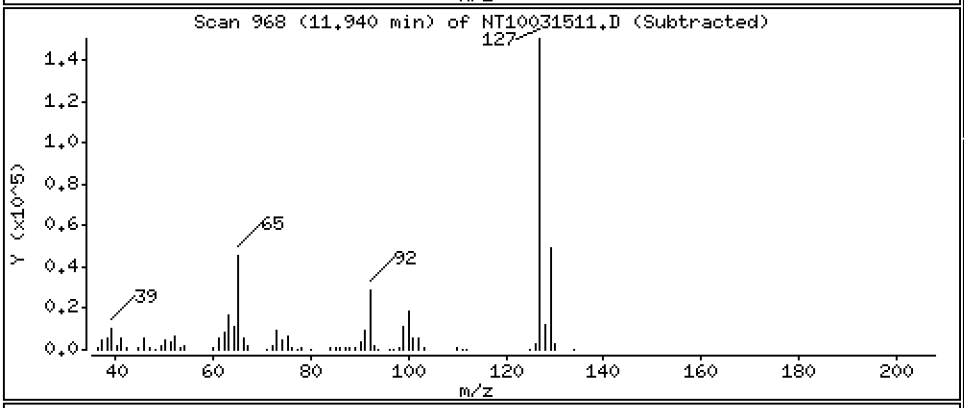
Column diameter: 0.25

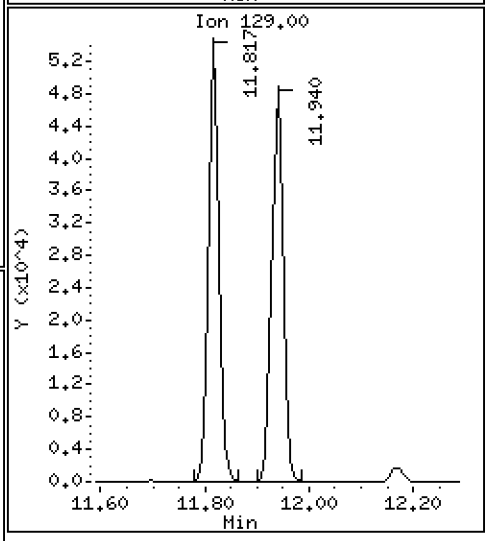
29 4-Chloroaniline

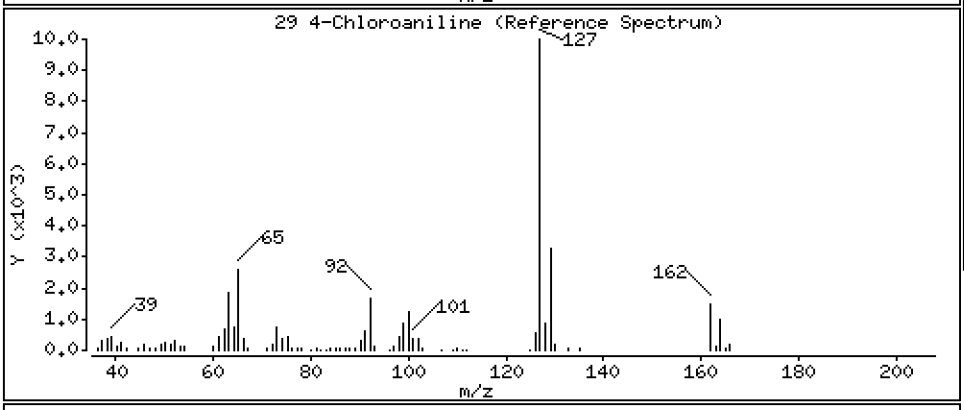
Concentration: 3.787 ug/mL

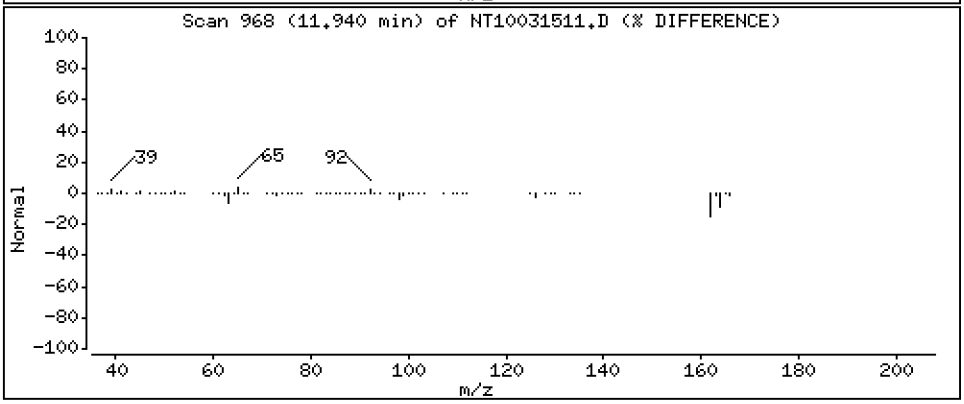












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

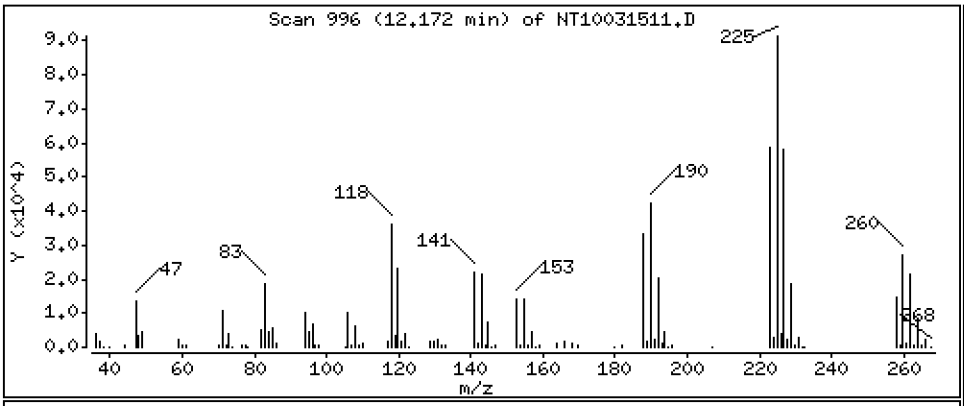
Operator: VTS

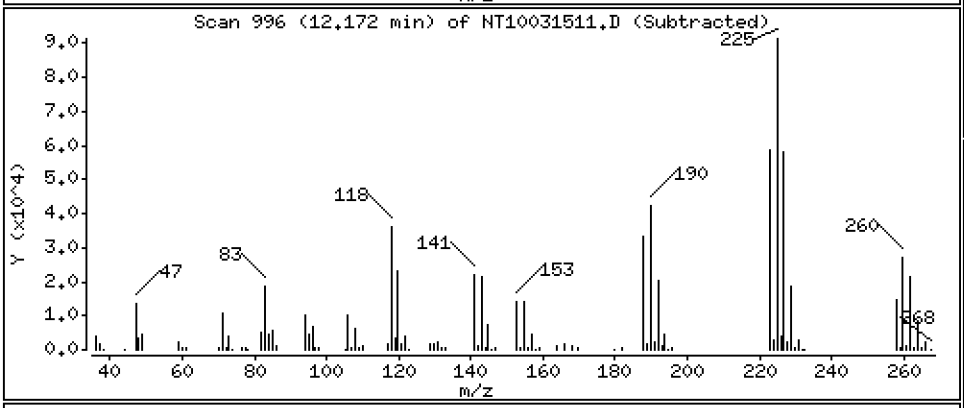
Column phase: ZB-5msi

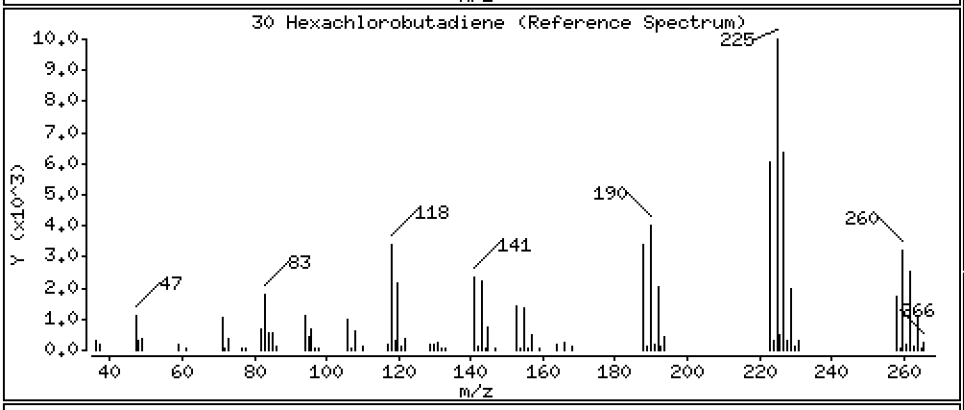
Column diameter: 0.25

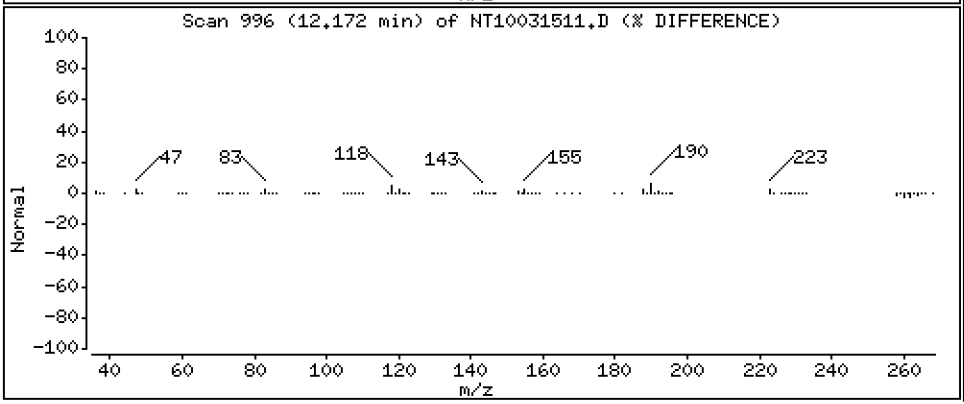
30 Hexachlorobutadiene

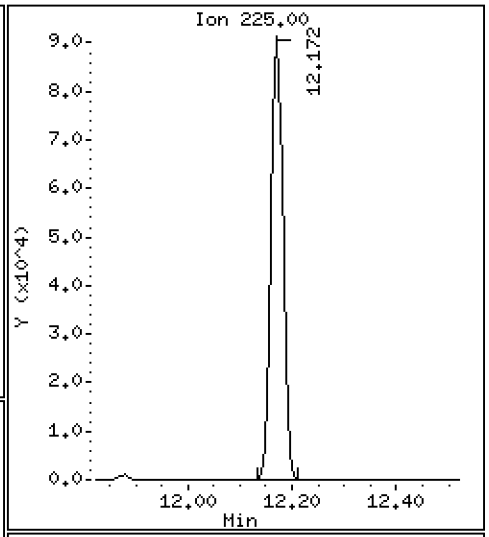
Concentration: 4.834 ug/mL

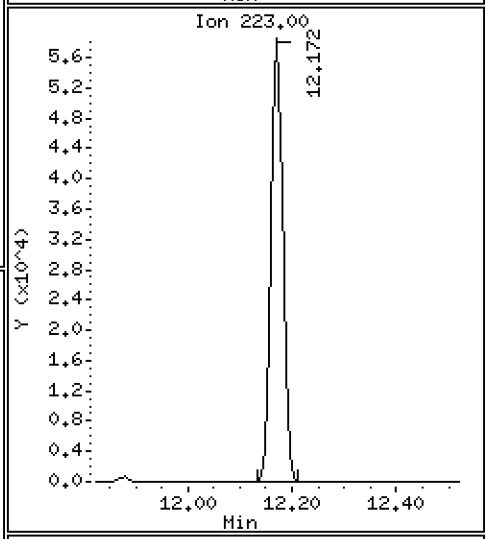


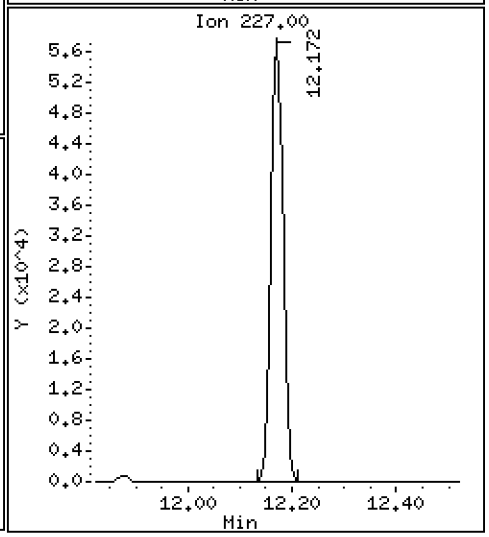












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

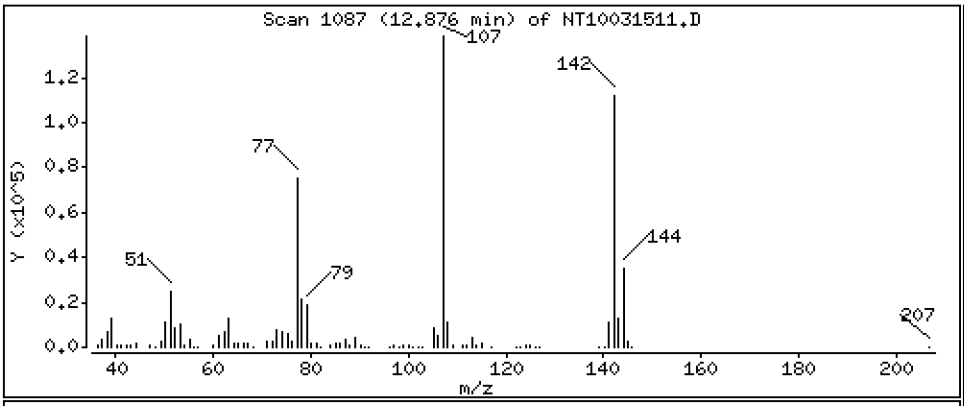
Operator: VTS

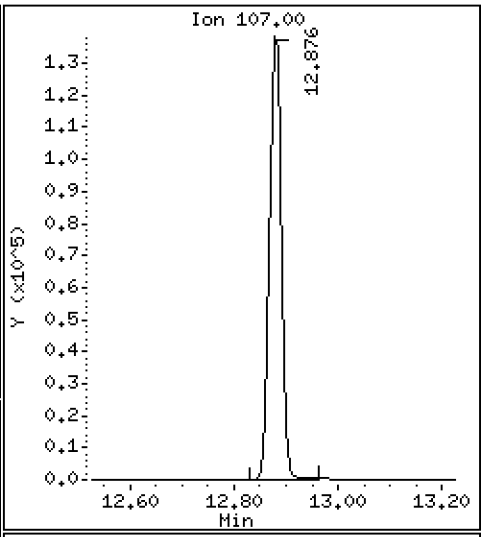
Column phase: ZB-5msi

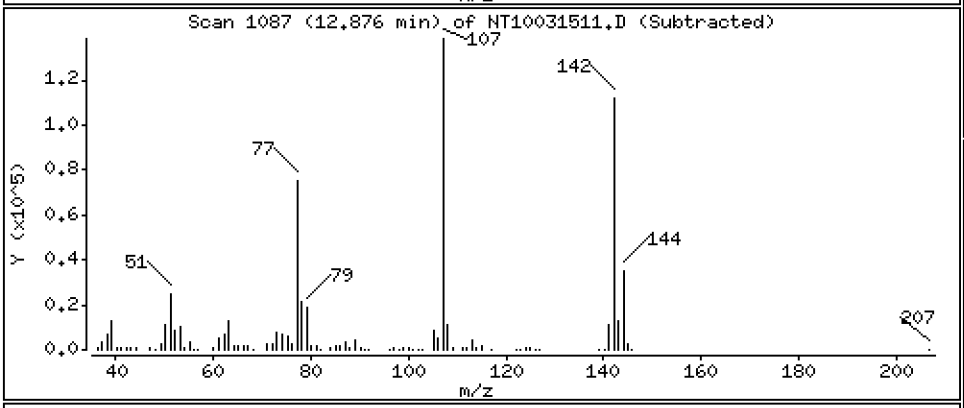
Column diameter: 0.25

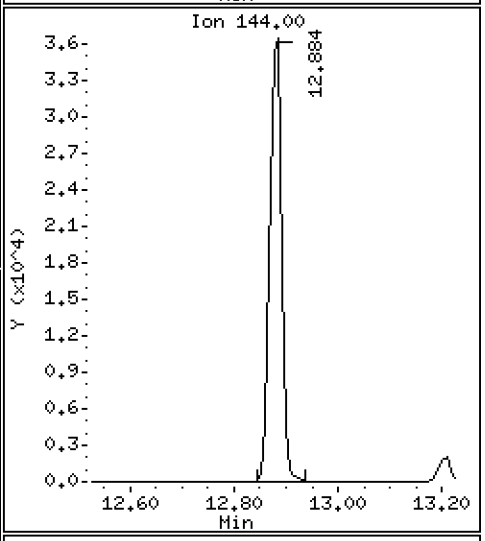
31 4-Chloro-3-methylphenol

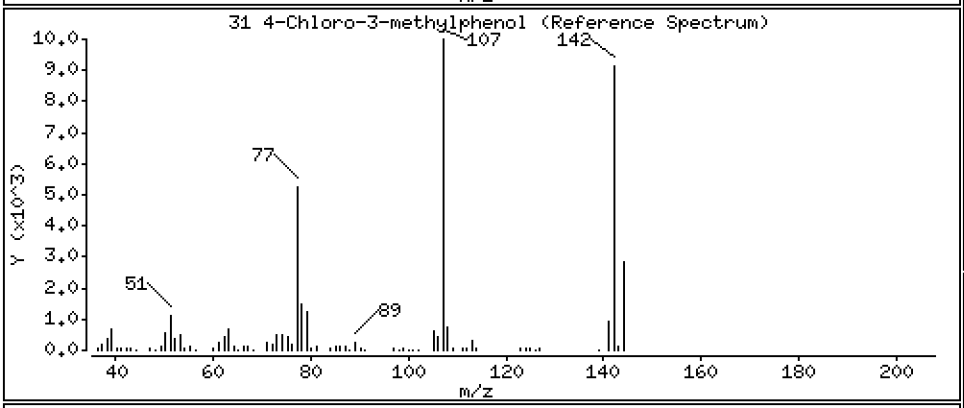
Concentration: 4.640 ug/mL

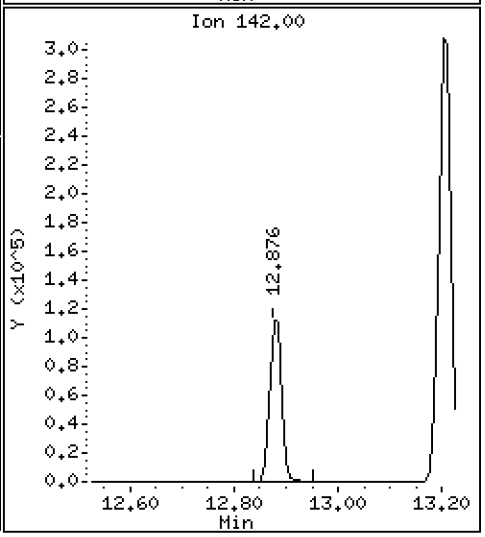


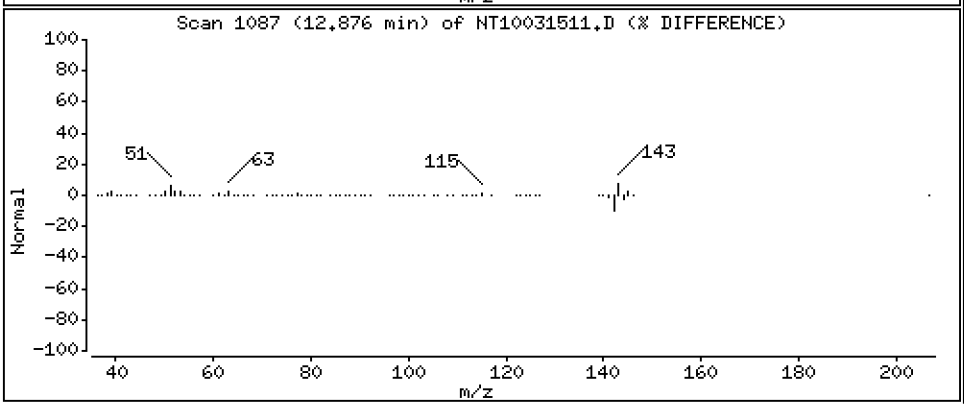












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

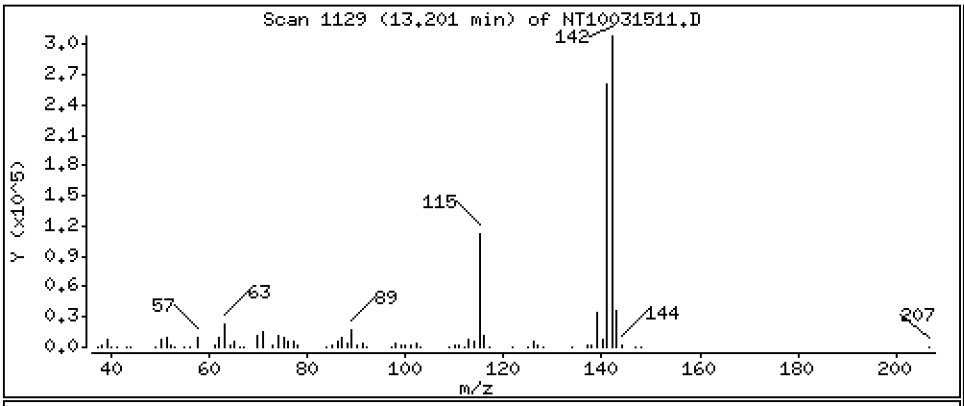
Operator: VTS

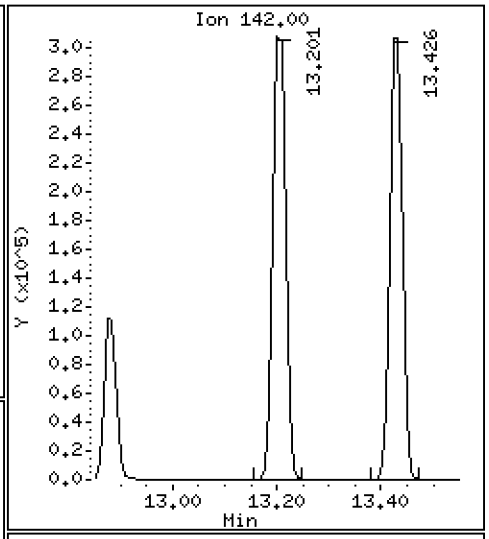
Column phase: ZB-5msi

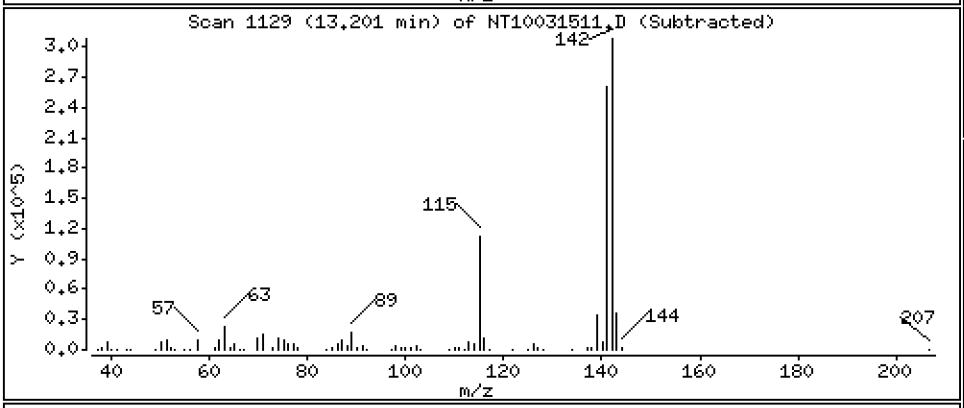
Column diameter: 0.25

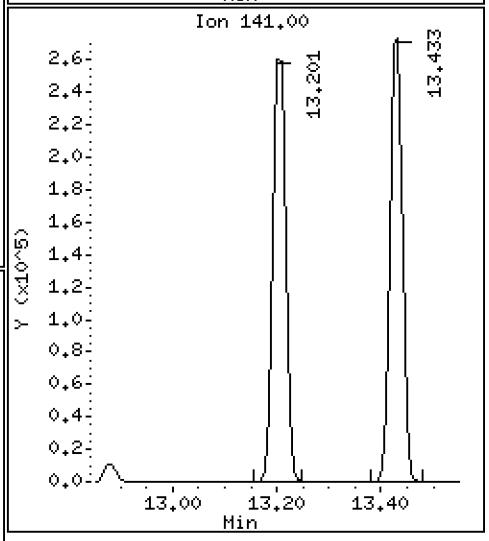
32 2-Methylnaphthalene

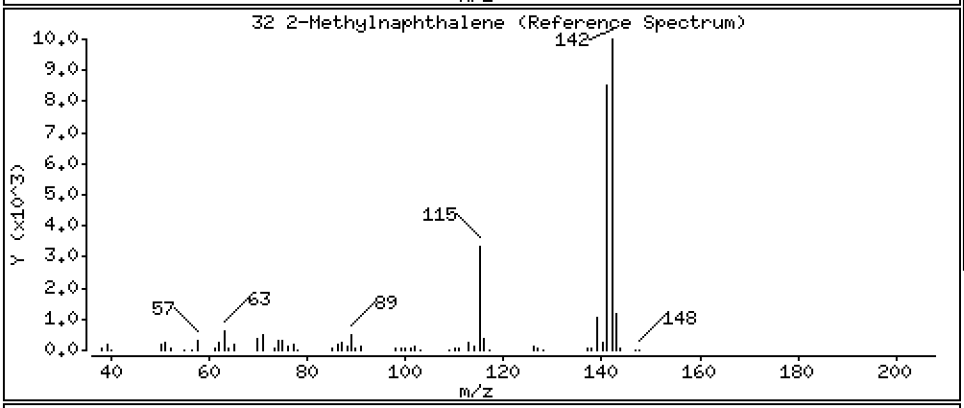
Concentration: 4.596 ug/mL

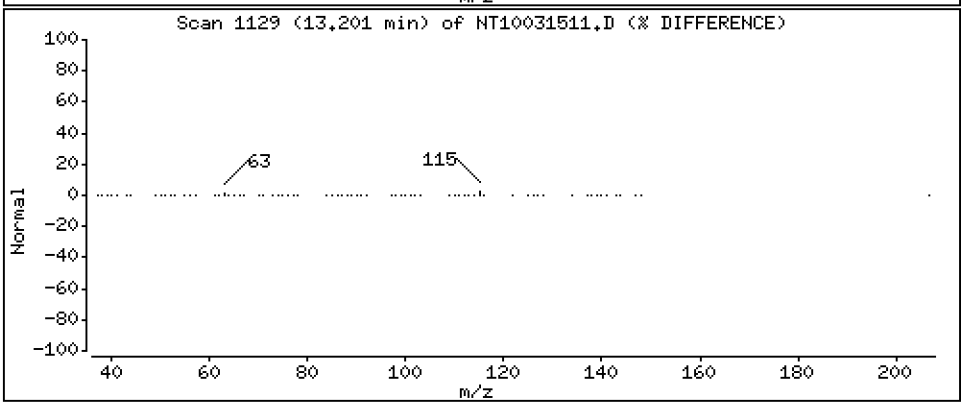












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

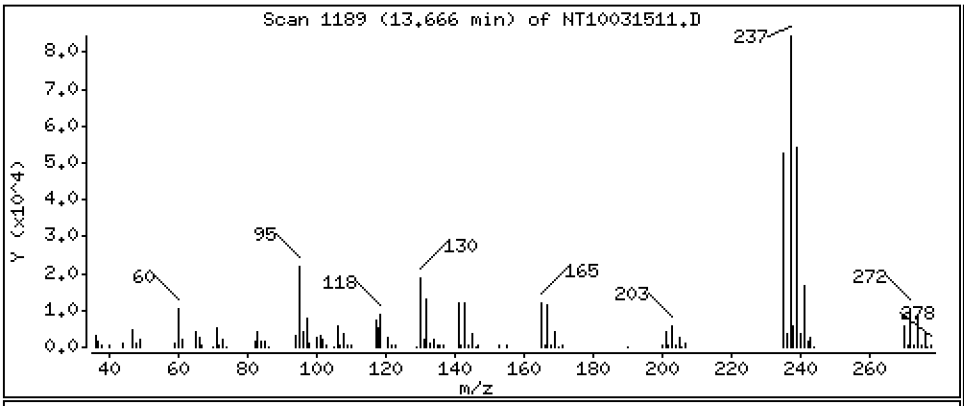
Operator: VTS

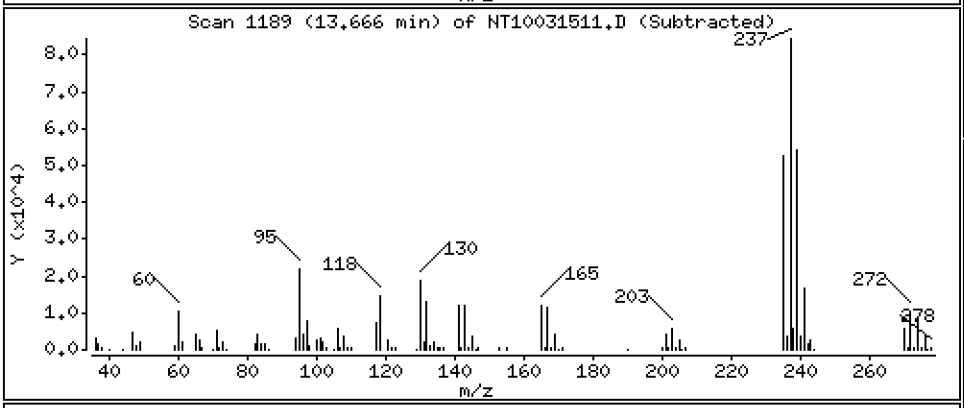
Column phase: ZB-5msi

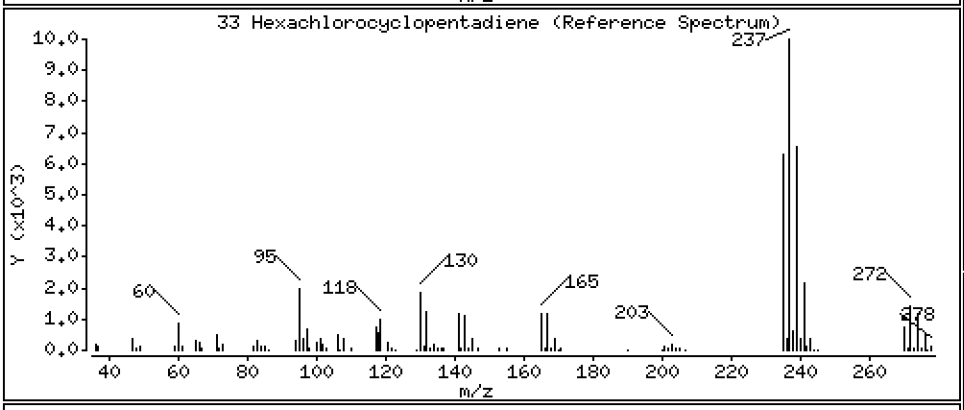
Column diameter: 0.25

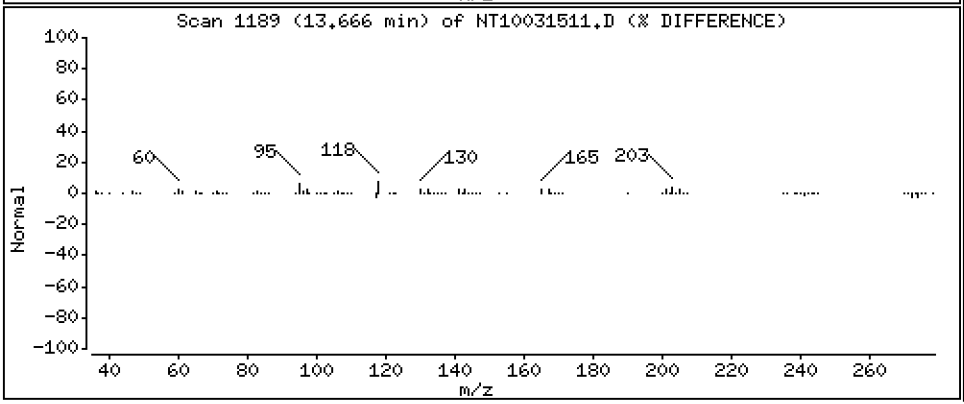
33 Hexachlorocyclopentadiene

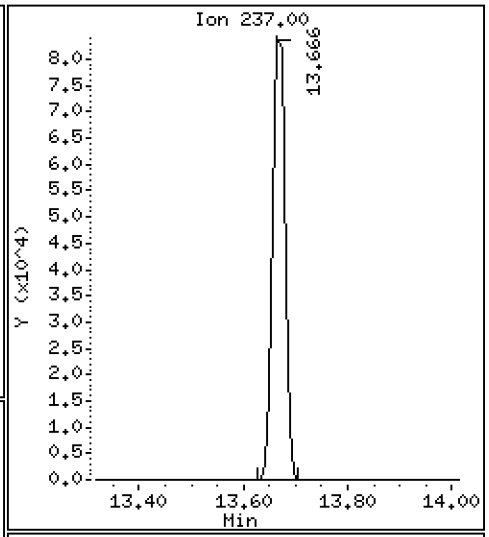
Concentration: 4.729 ug/mL

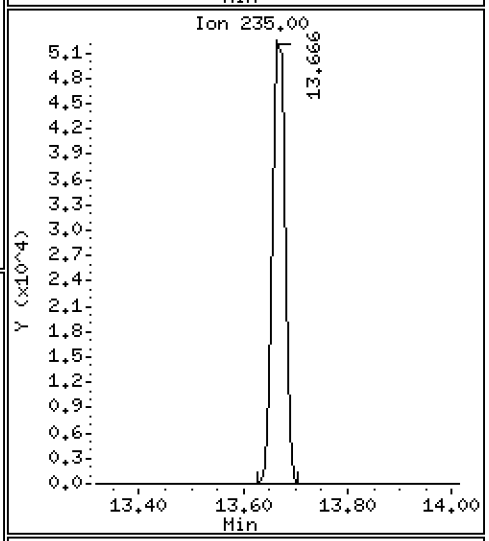


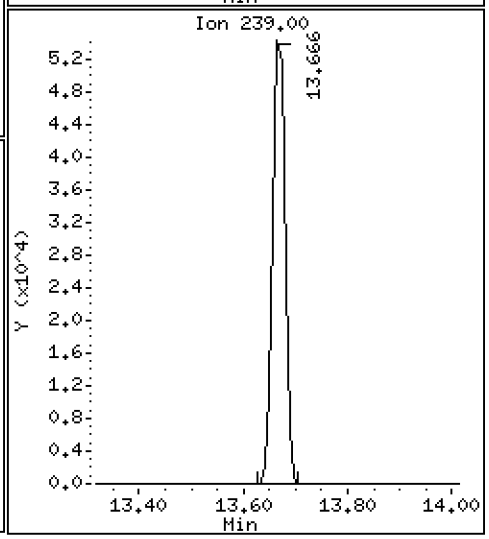












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

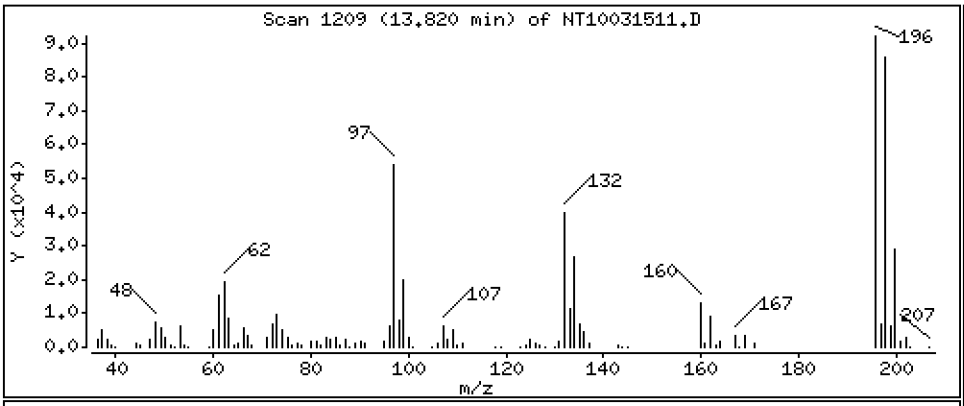
Operator: VTS

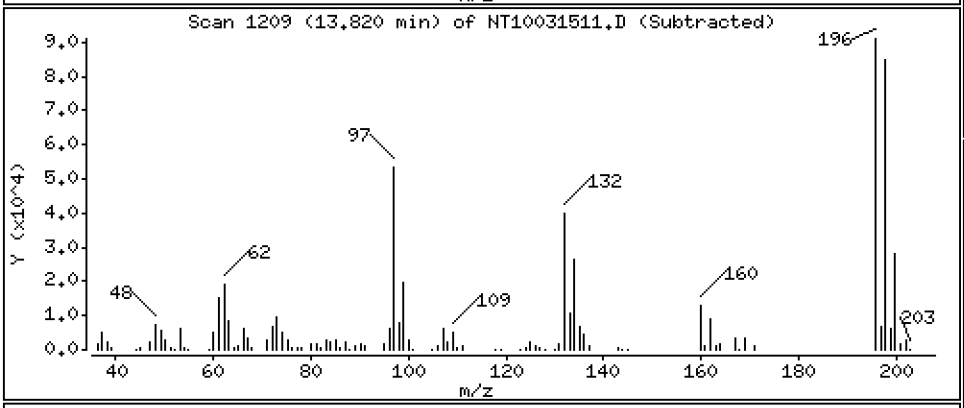
Column phase: ZB-5msi

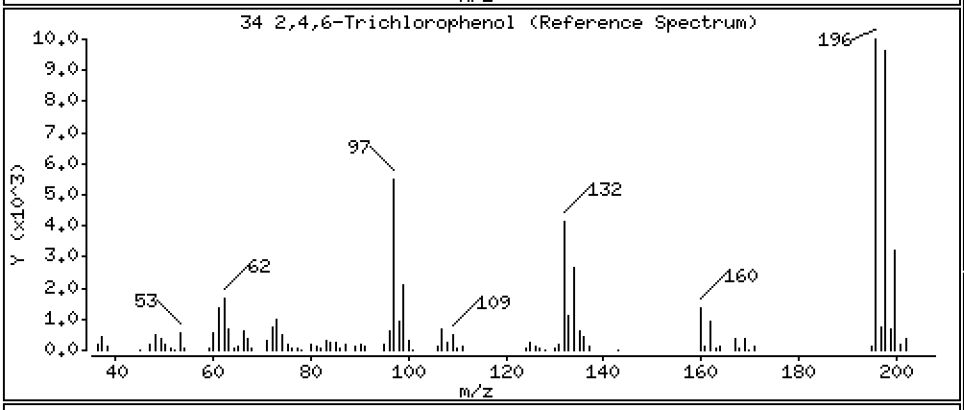
Column diameter: 0.25

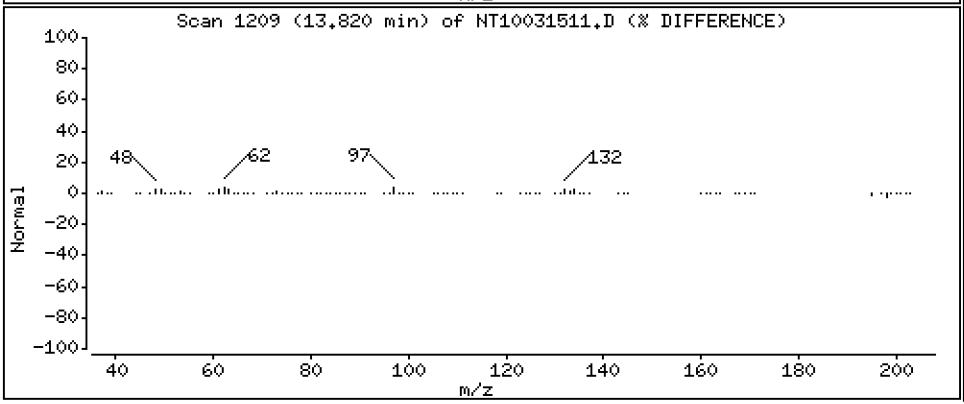
34 2,4,6-Trichlorophenol

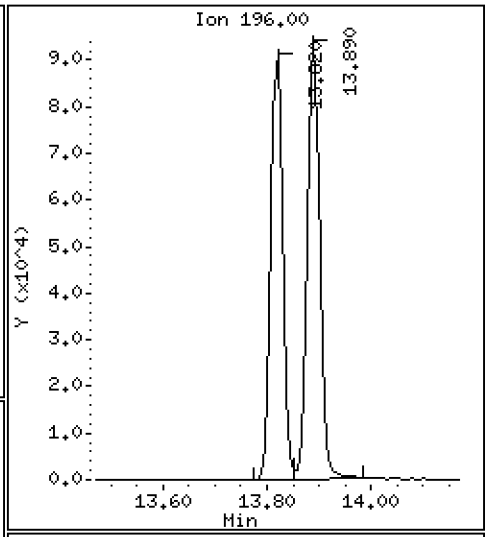
Concentration: 4.596 ug/mL

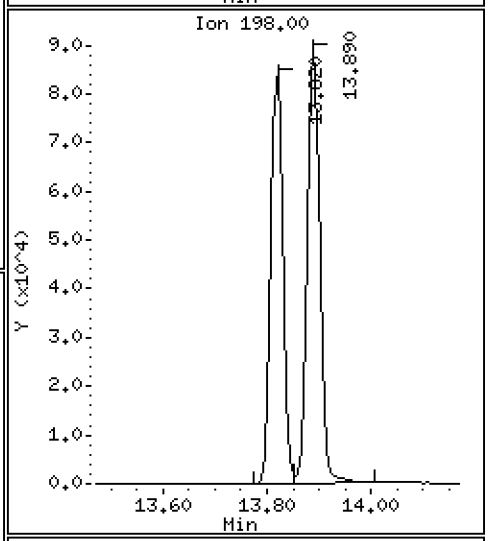


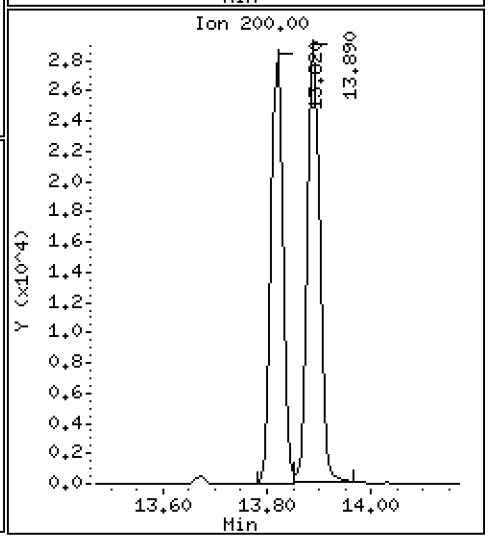












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

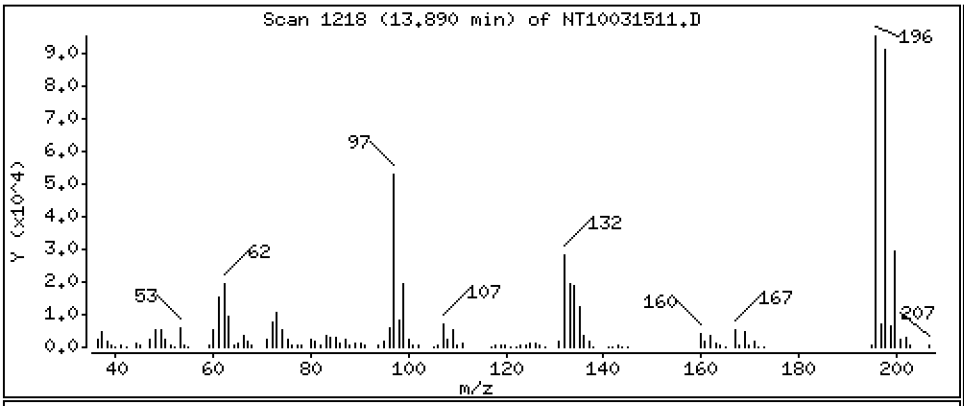
Operator: VTS

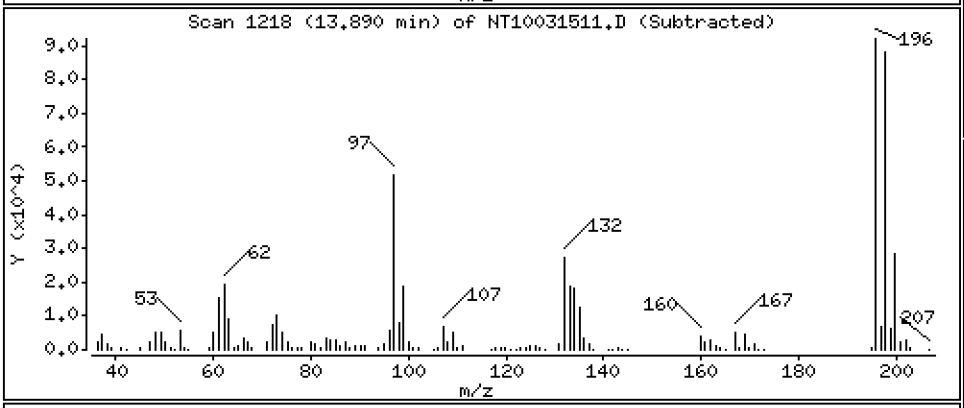
Column phase: ZB-5msi

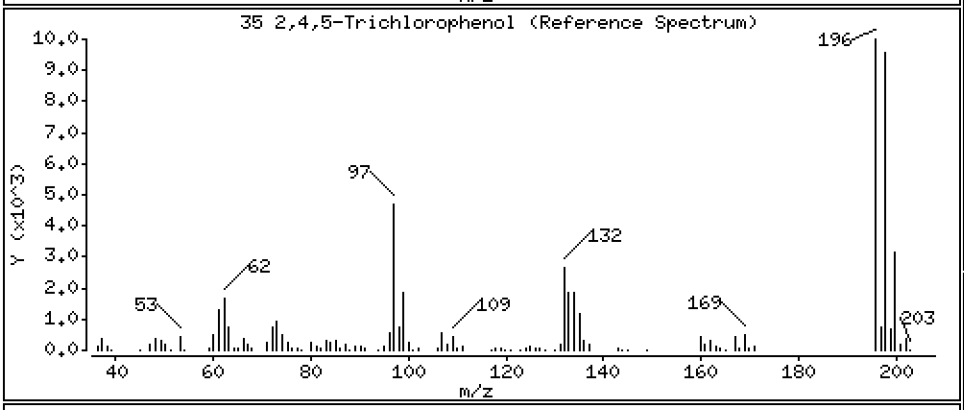
Column diameter: 0.25

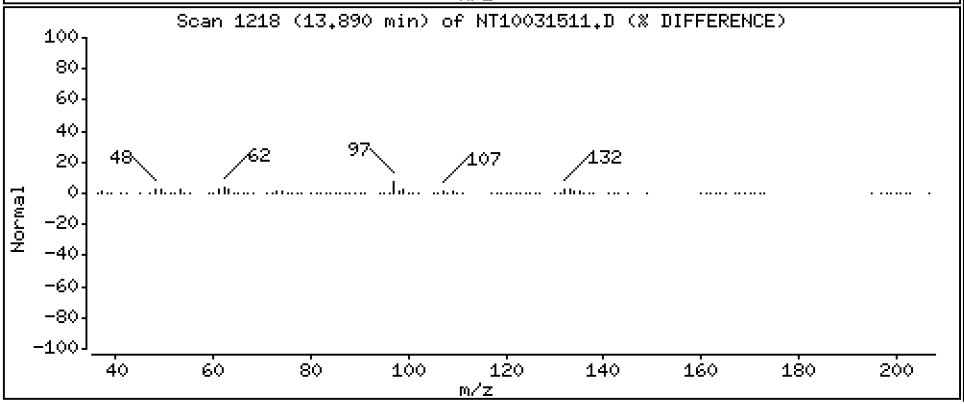
35 2,4,5-Trichlorophenol

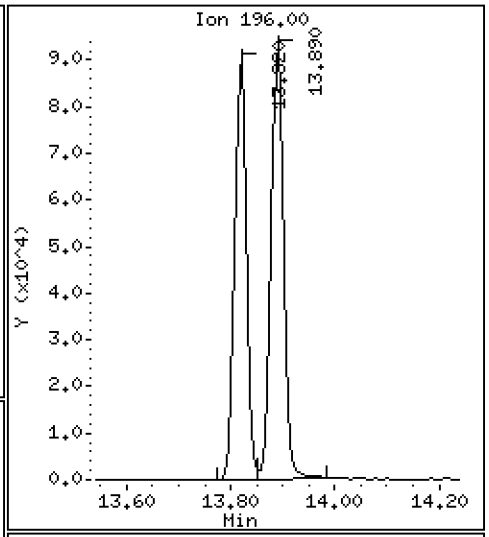
Concentration: 4.409 ug/mL

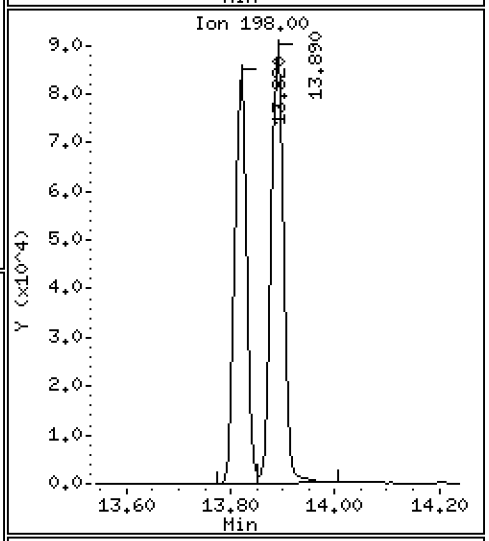


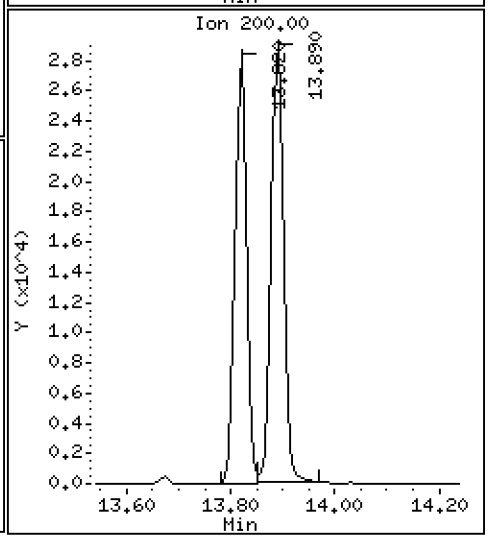












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

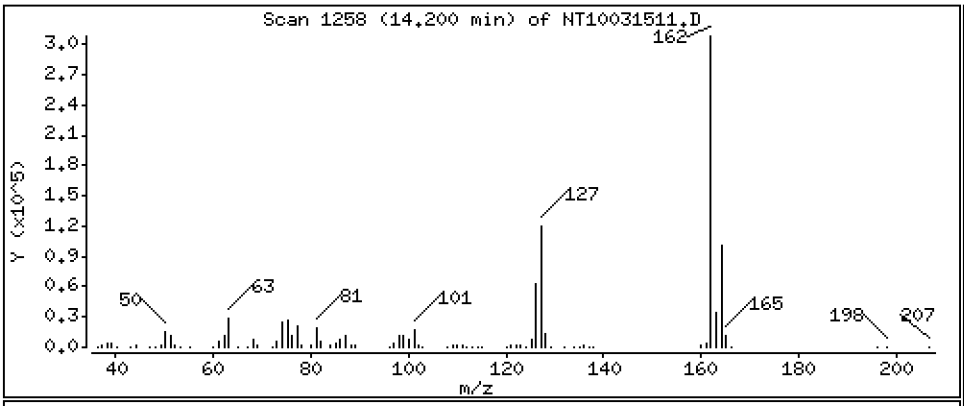
Operator: VTS

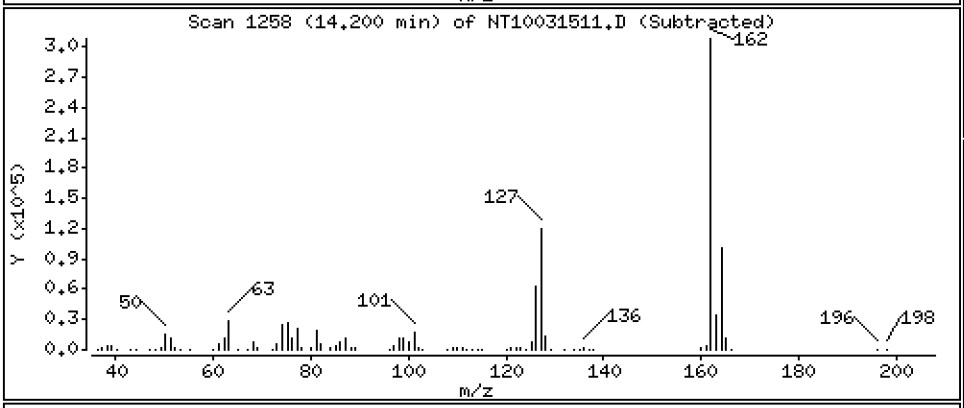
Column phase: ZB-5msi

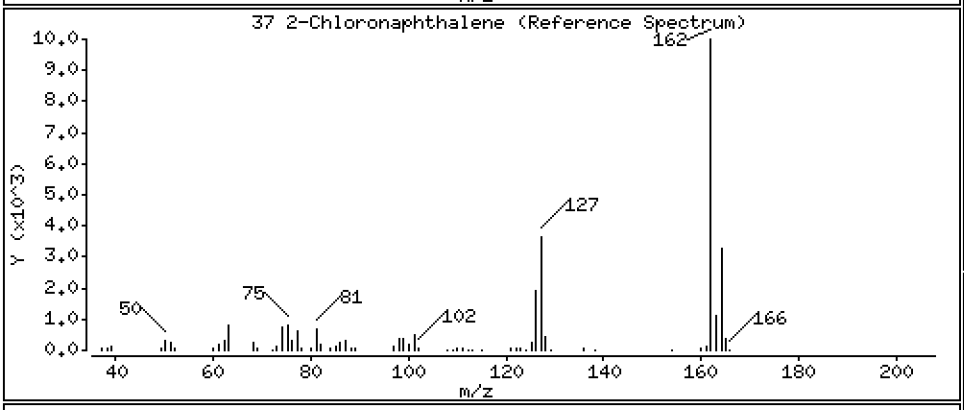
Column diameter: 0.25

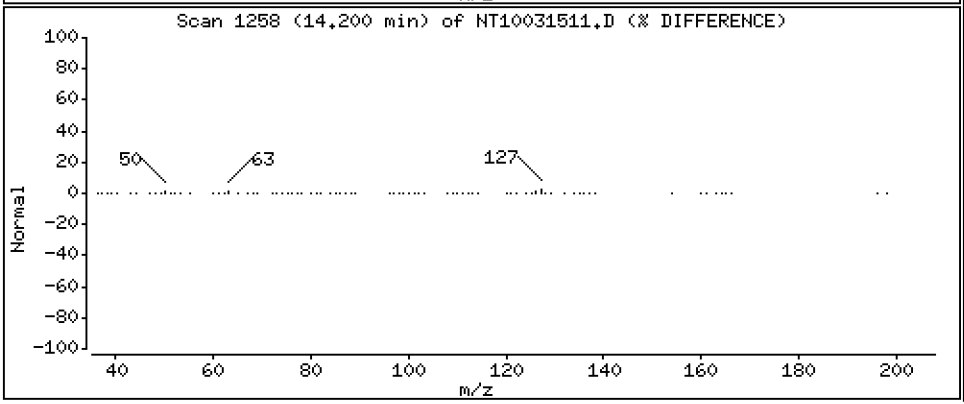
37 2-Chloronaphthalene

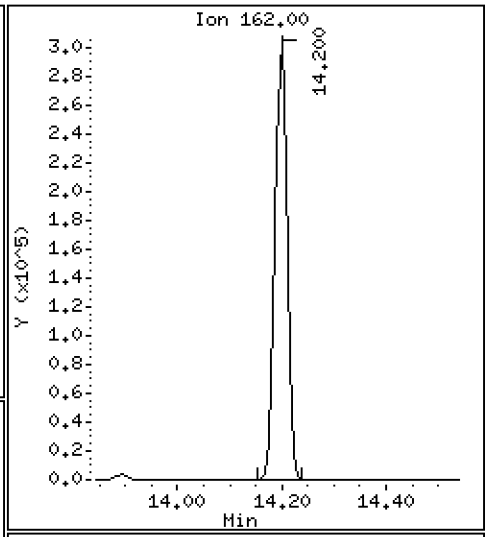
Concentration: 4.796 ug/mL

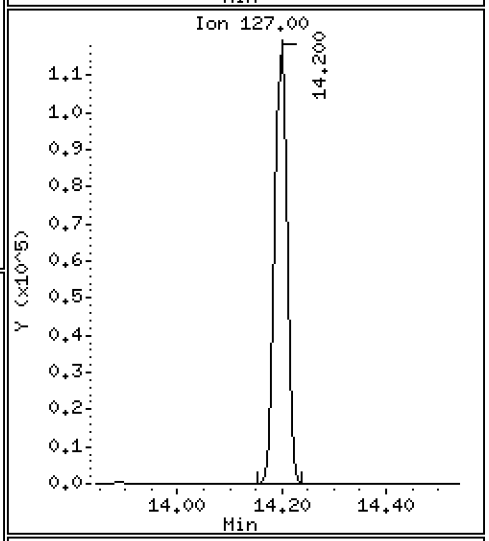


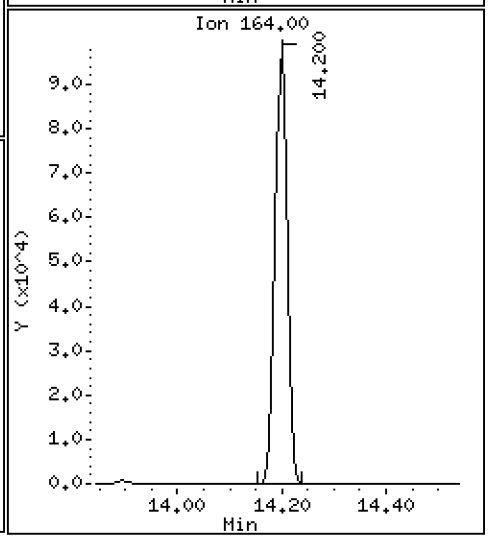












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

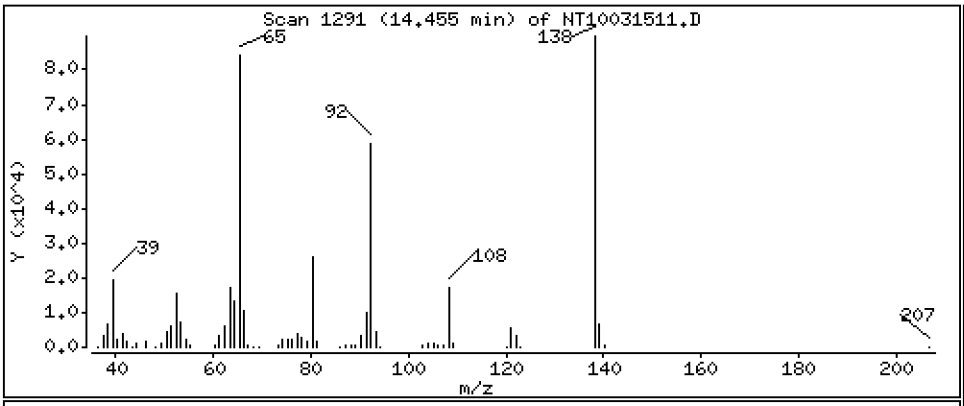
Operator: VTS

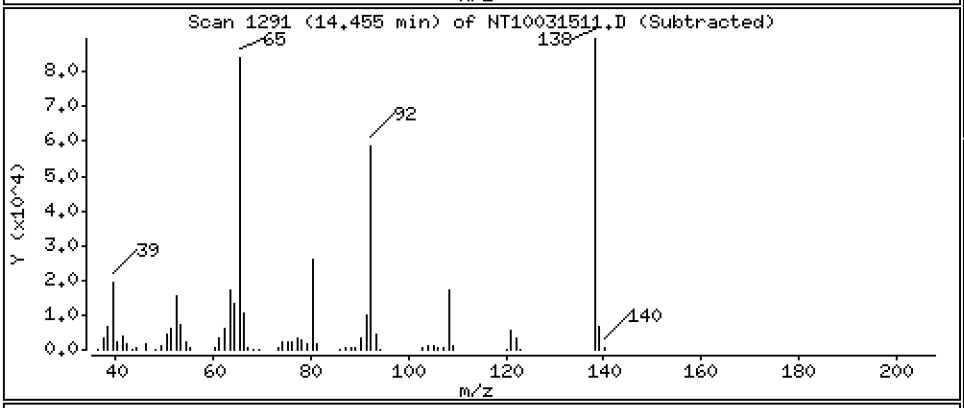
Column phase: ZB-5msi

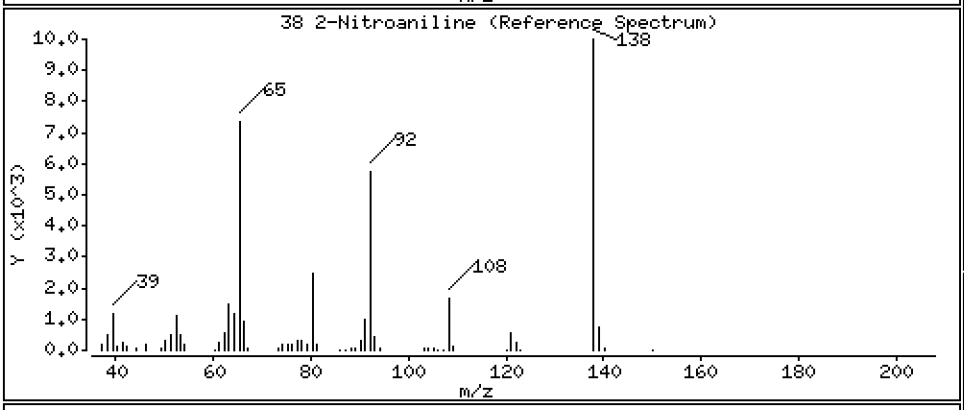
Column diameter: 0.25

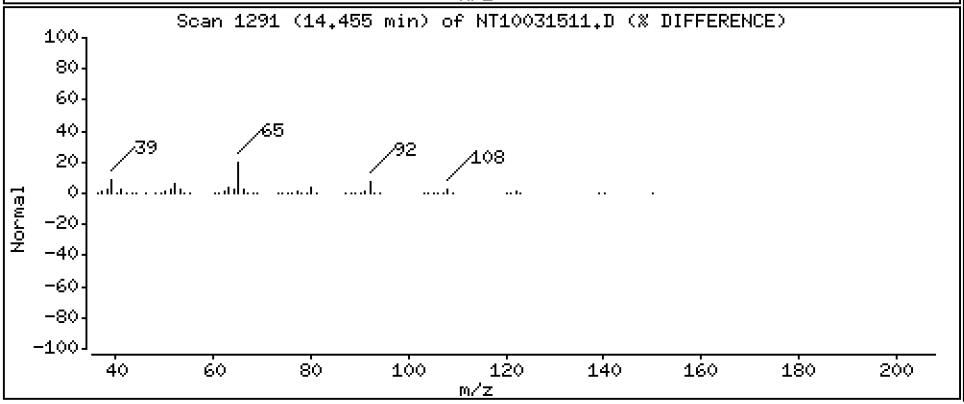
38 2-Nitroaniline

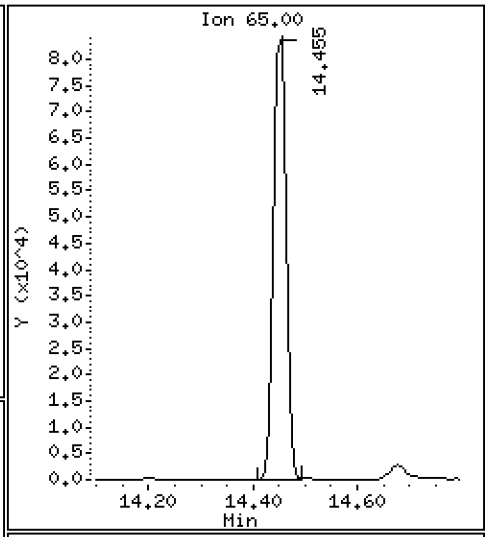
Concentration: 4.911 ug/mL

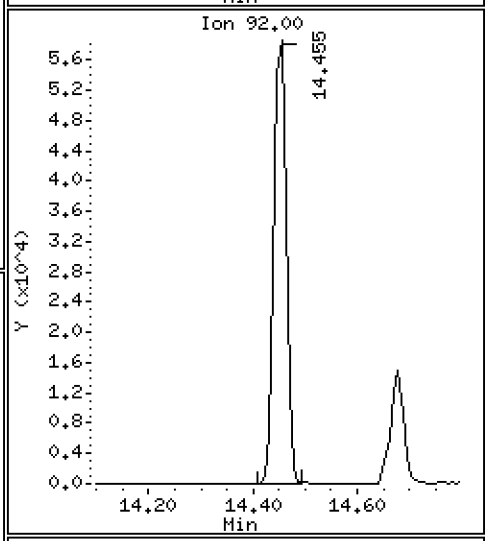


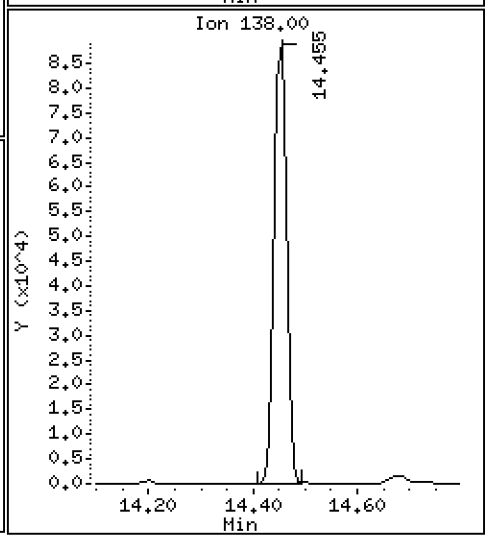












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

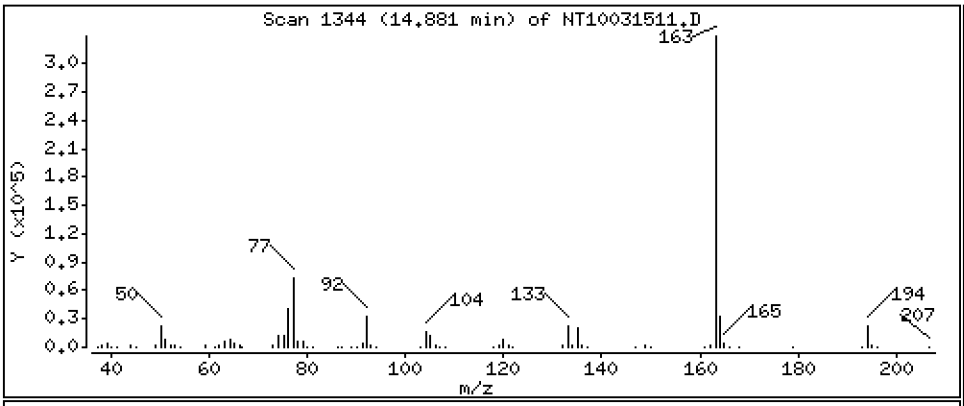
Operator: VTS

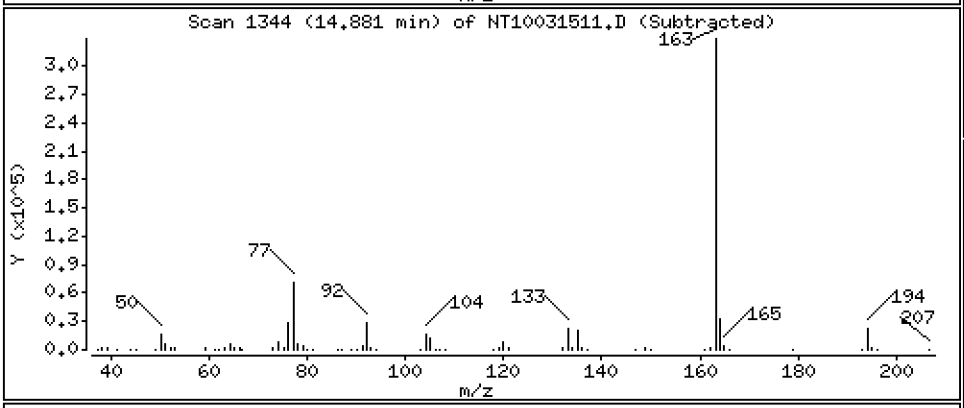
Column phase: ZB-5msi

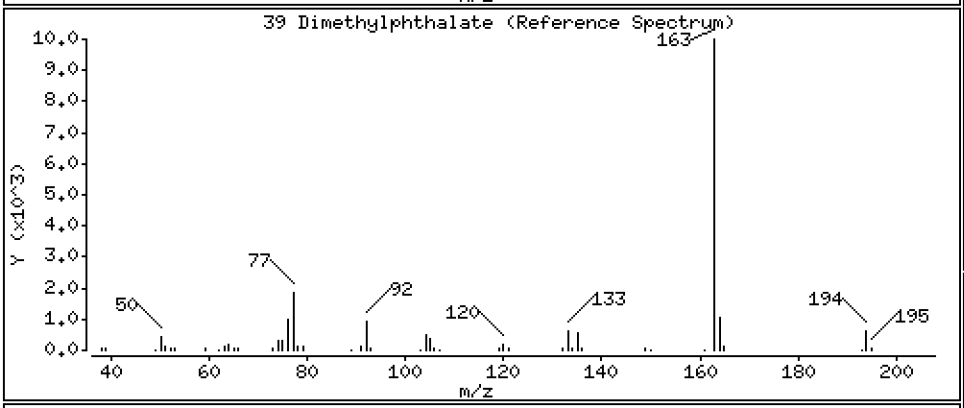
Column diameter: 0.25

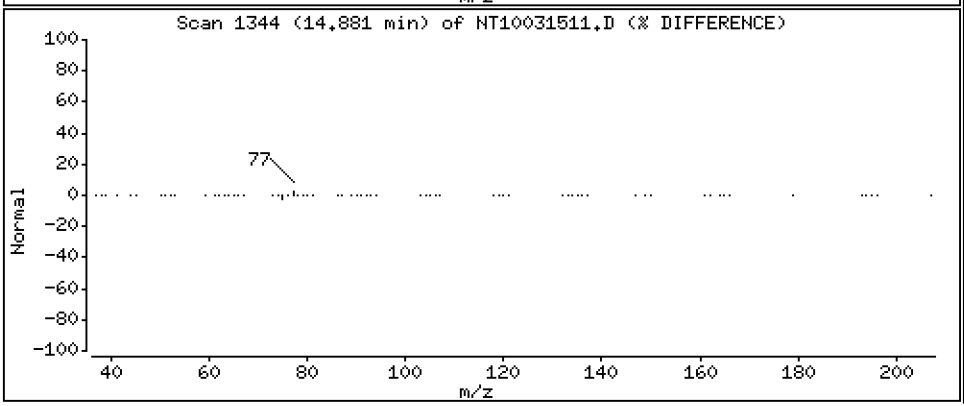
39 Dimethylphthalate

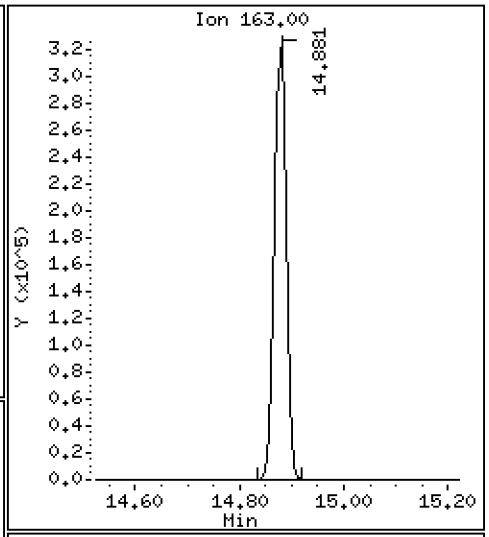
Concentration: 4.937 ug/mL

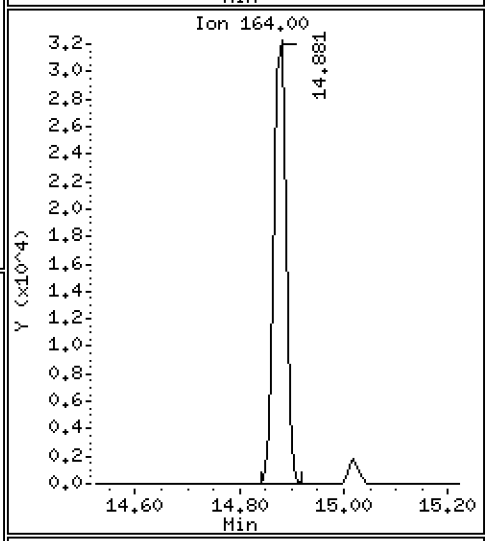


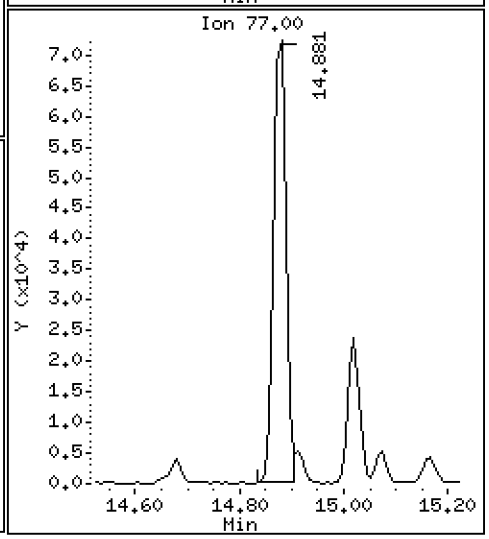












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

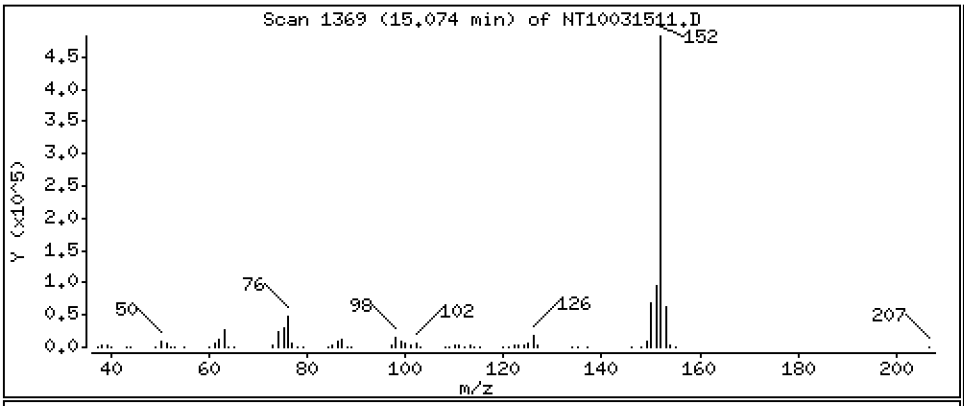
Operator: VTS

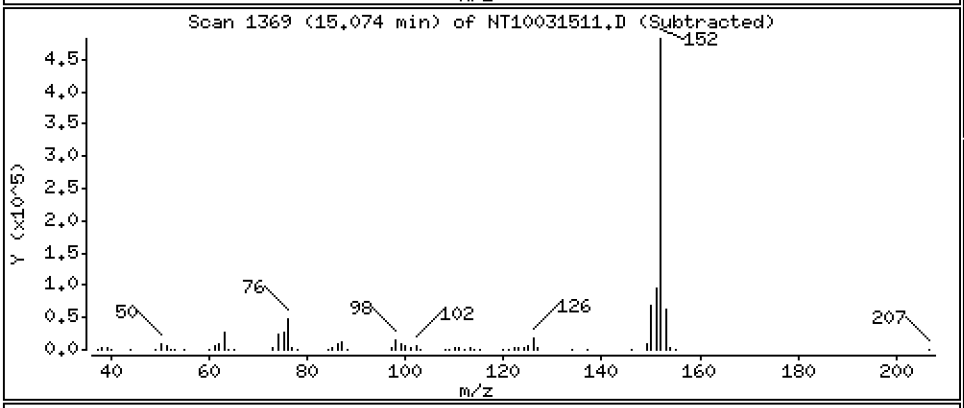
Column phase: ZB-5msi

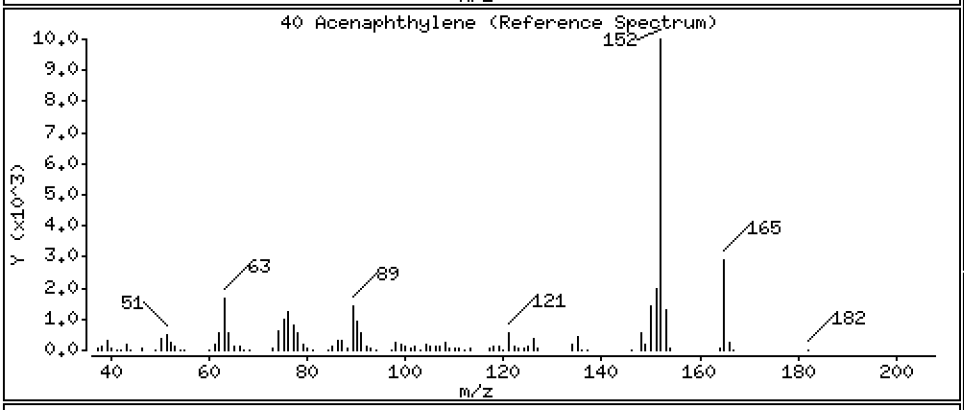
Column diameter: 0.25

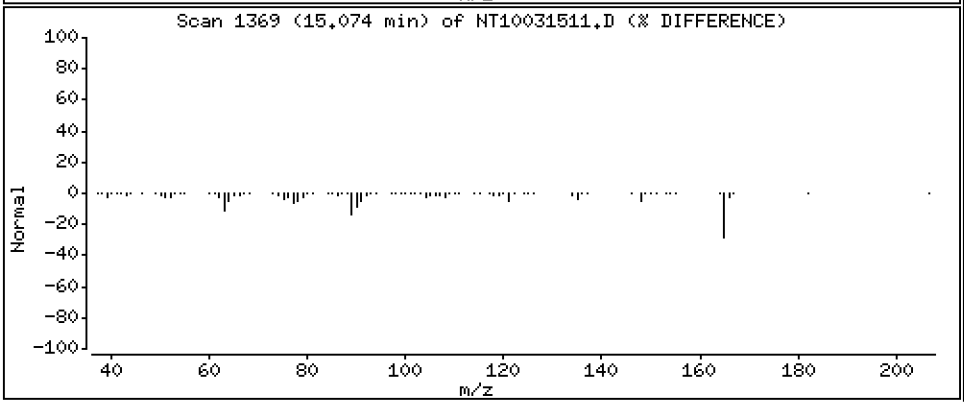
40 Acenaphthylene

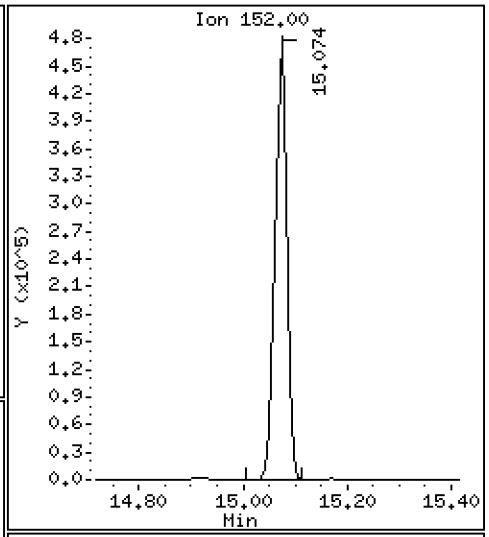
Concentration: 4.805 ug/mL

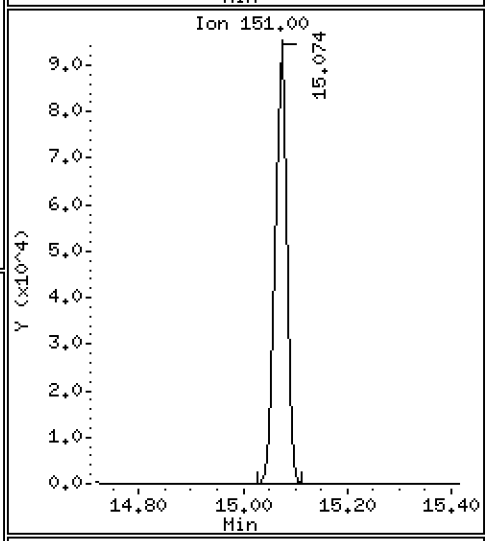


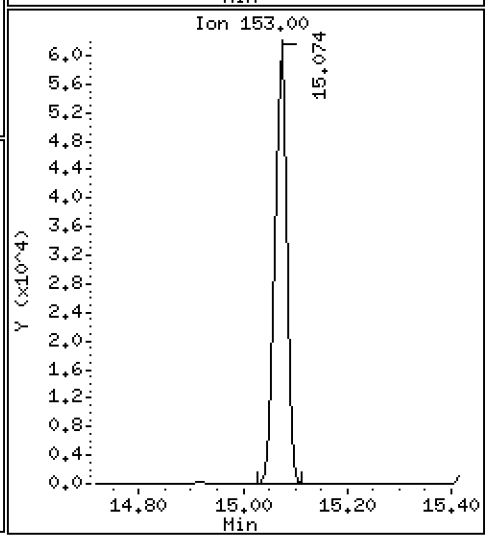












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

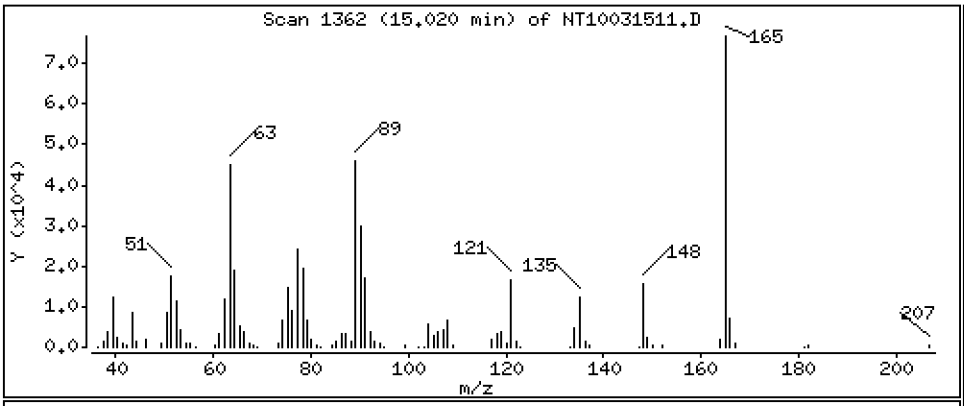
Operator: VTS

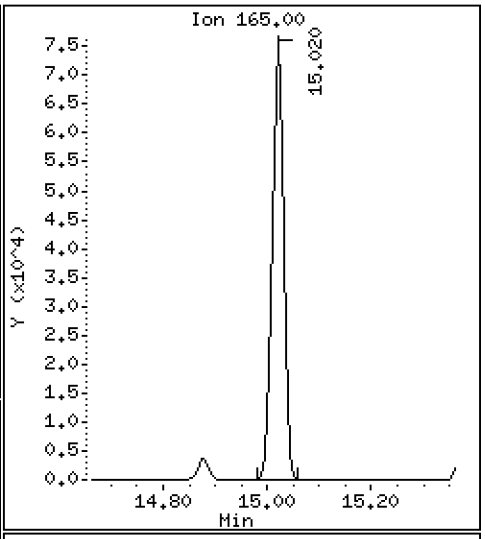
Column phase: ZB-5msi

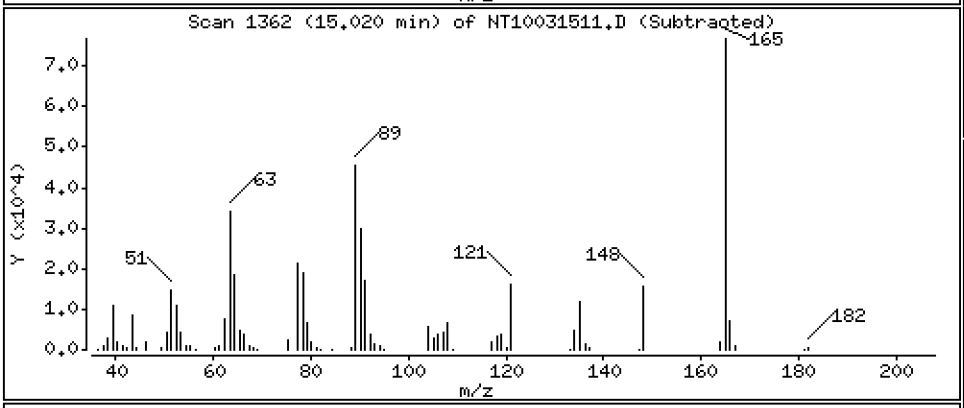
Column diameter: 0.25

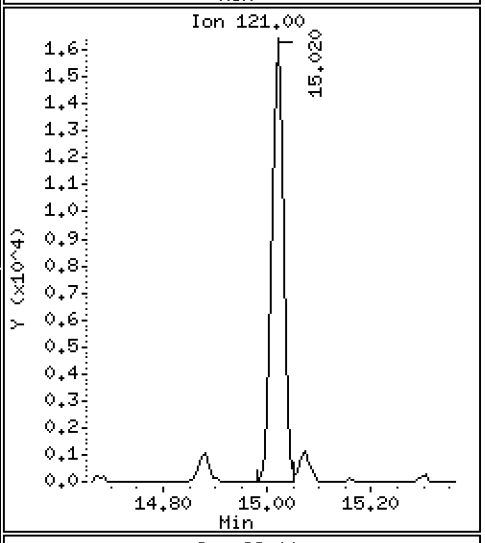
41 2,6-Dinitrotoluene

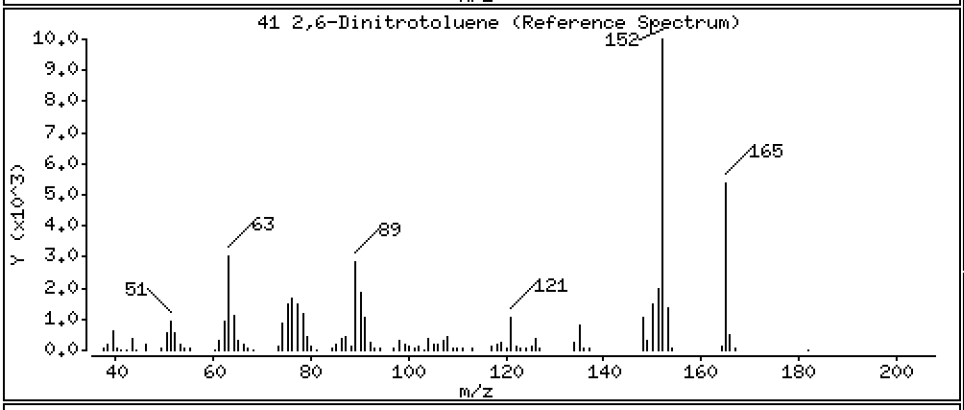
Concentration: 5.298 ug/mL

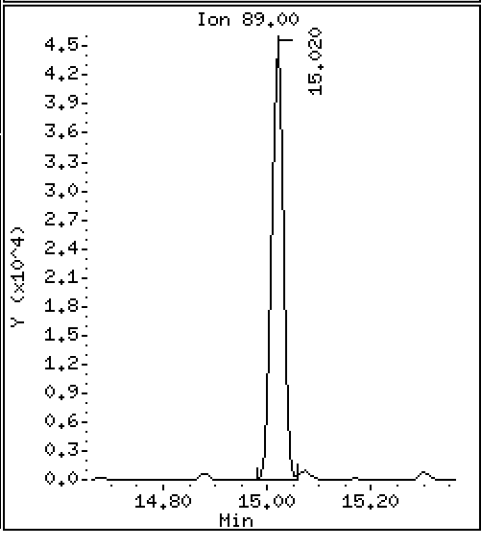


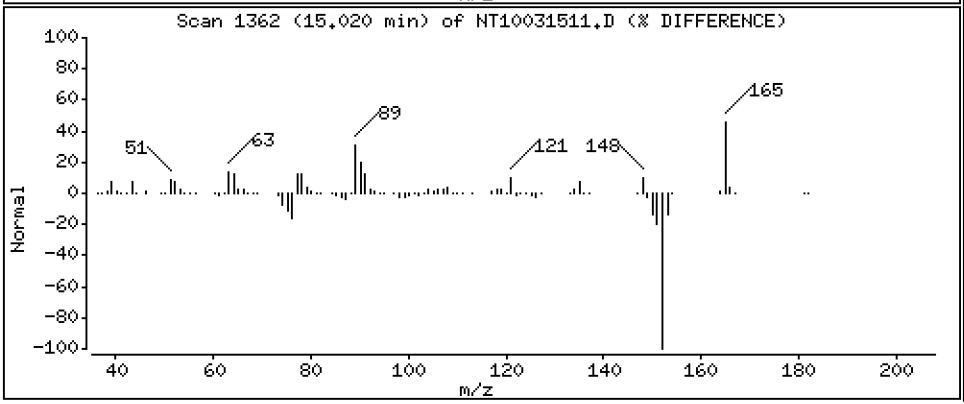












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

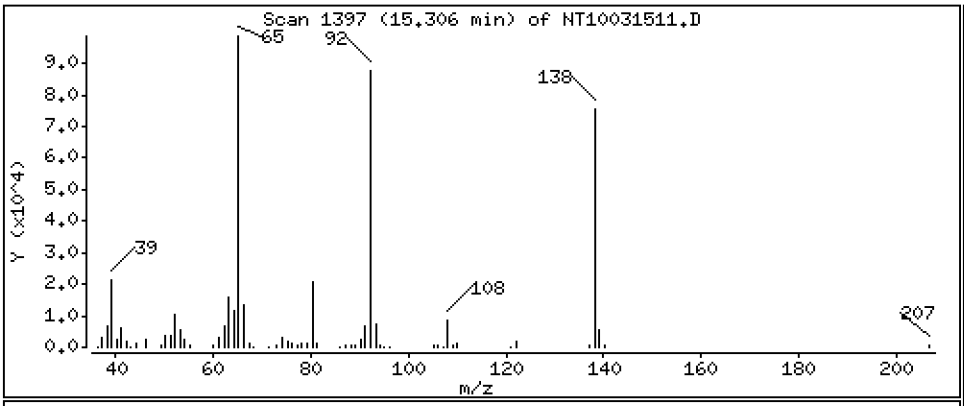
Operator: VTS

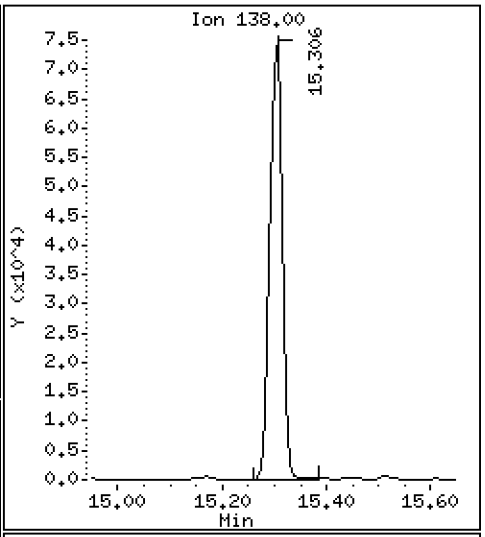
Column phase: ZB-5msi

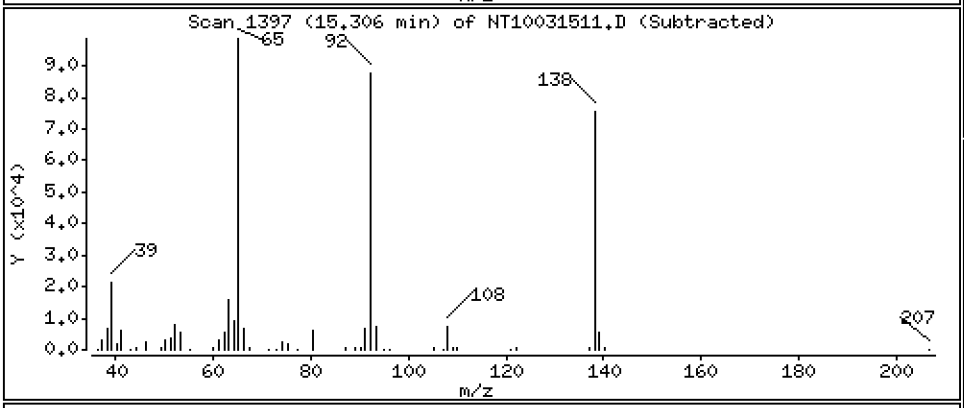
Column diameter: 0.25

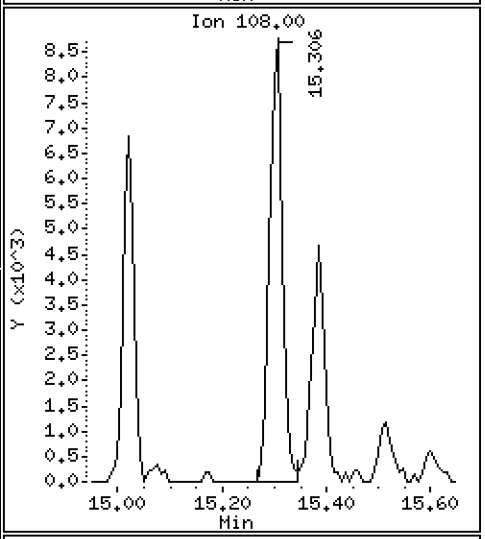
43 3-Nitroaniline

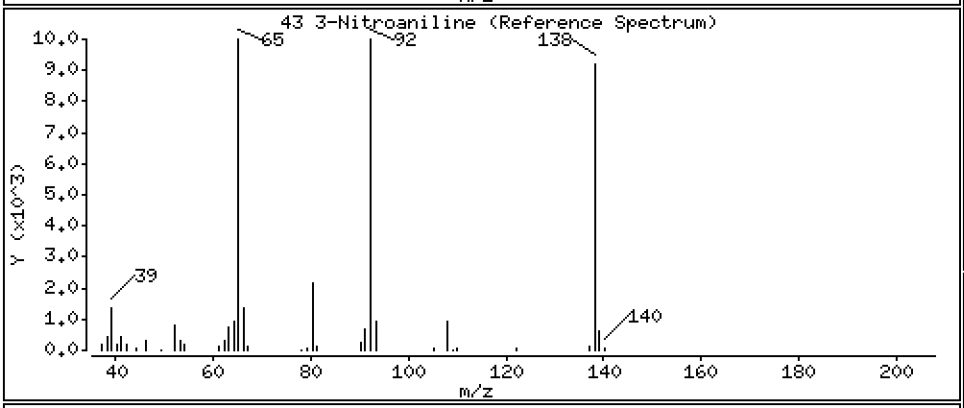
Concentration: 5.014 ug/mL

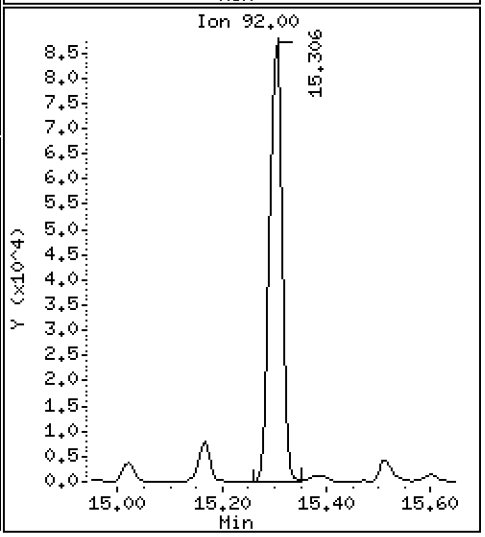


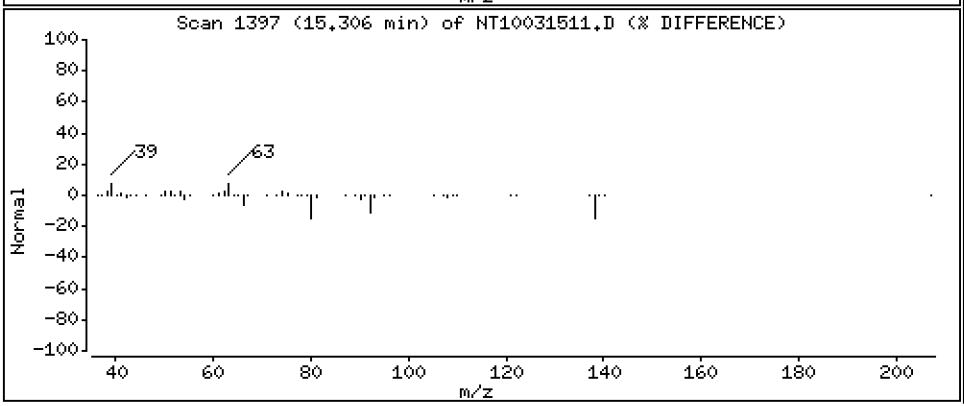












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

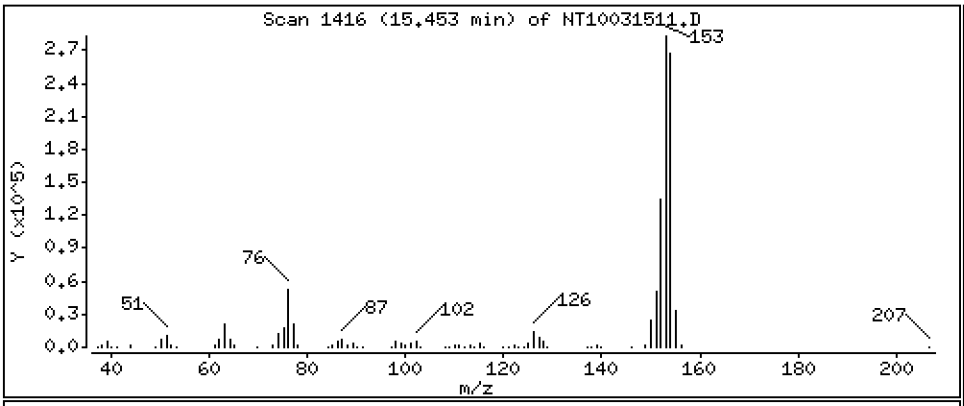
Operator: VTS

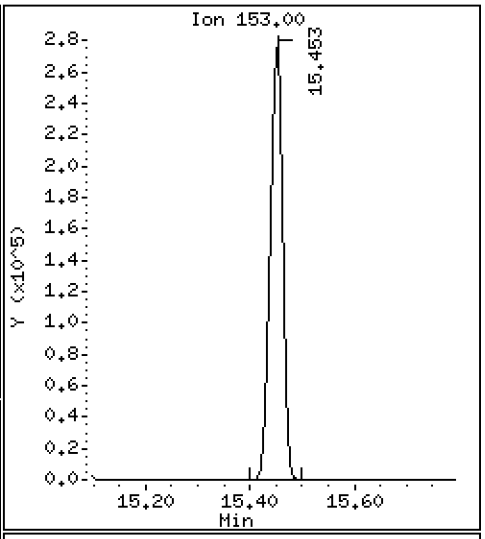
Column phase: ZB-5msi

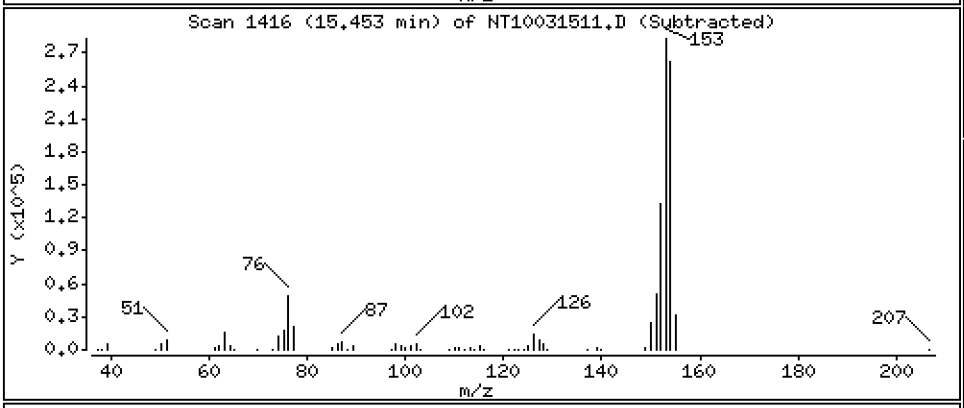
Column diameter: 0.25

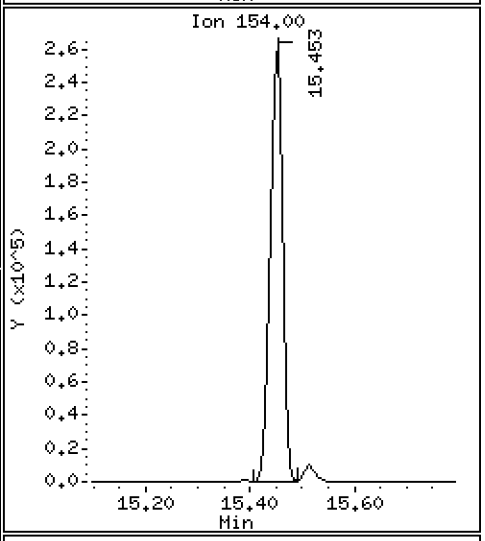
44 Acenaphthene

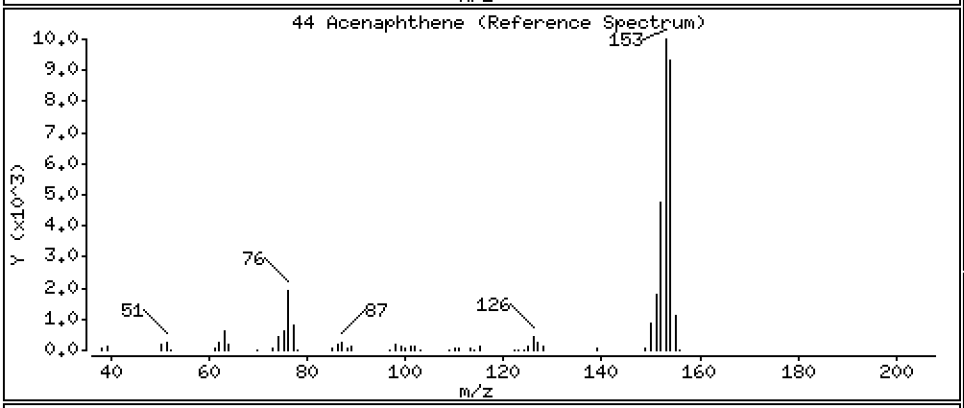
Concentration: 4.776 ug/mL

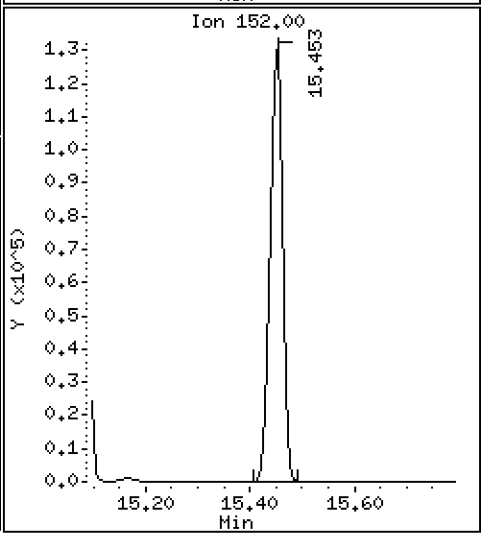


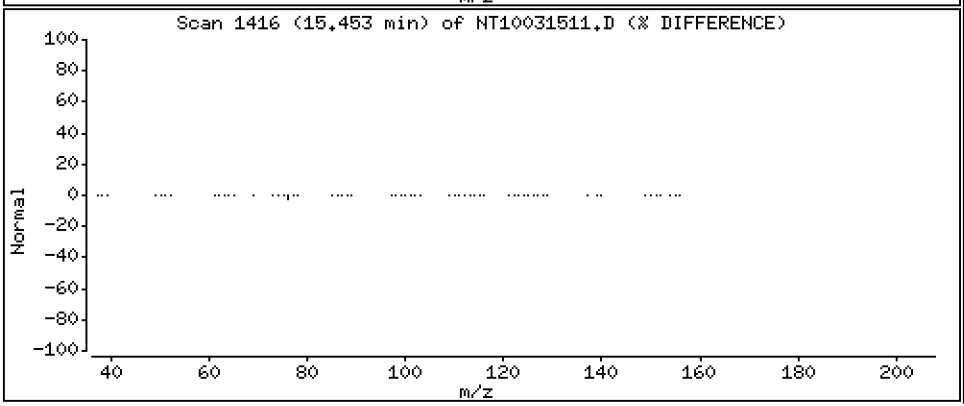












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

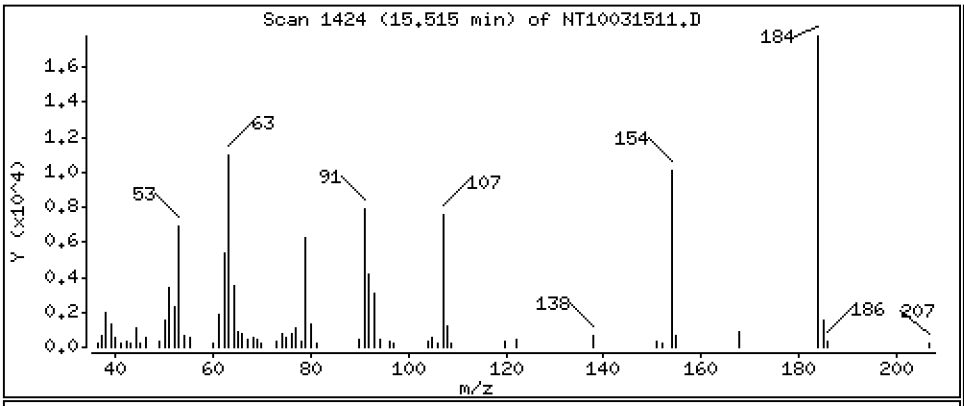
Operator: VTS

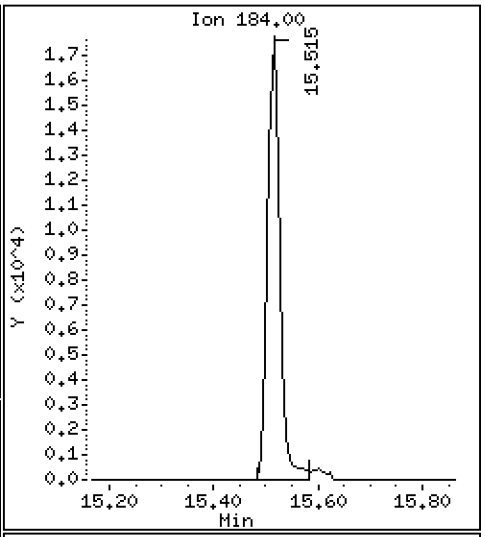
Column phase: ZB-5msi

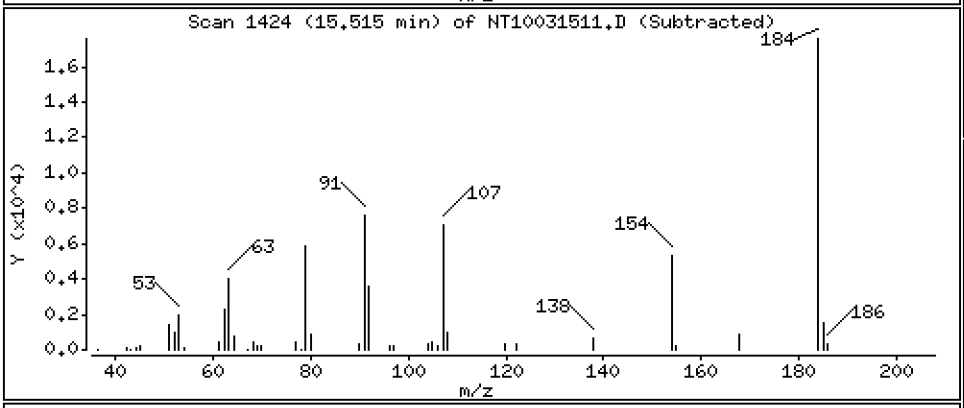
Column diameter: 0.25

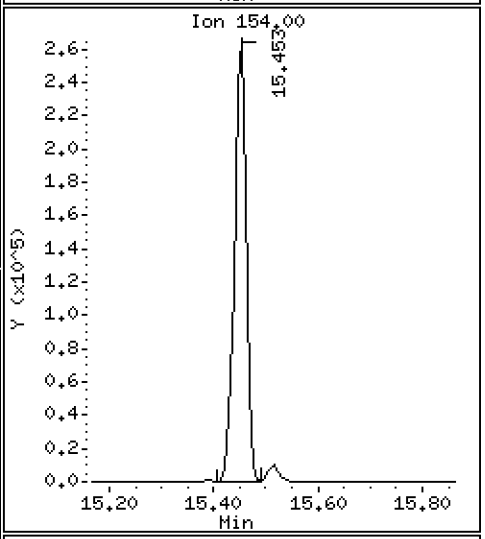
45 2,4-Dinitrophenol

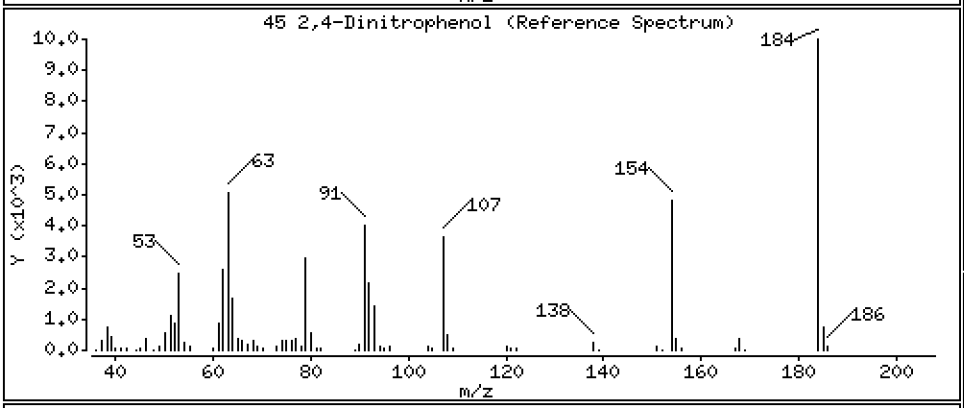
Concentration: 2.124 ug/mL

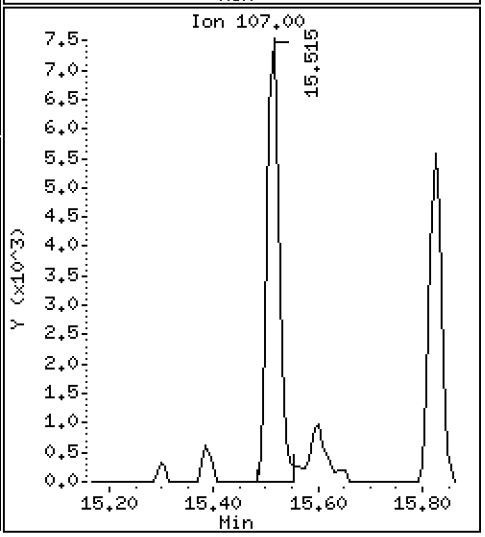


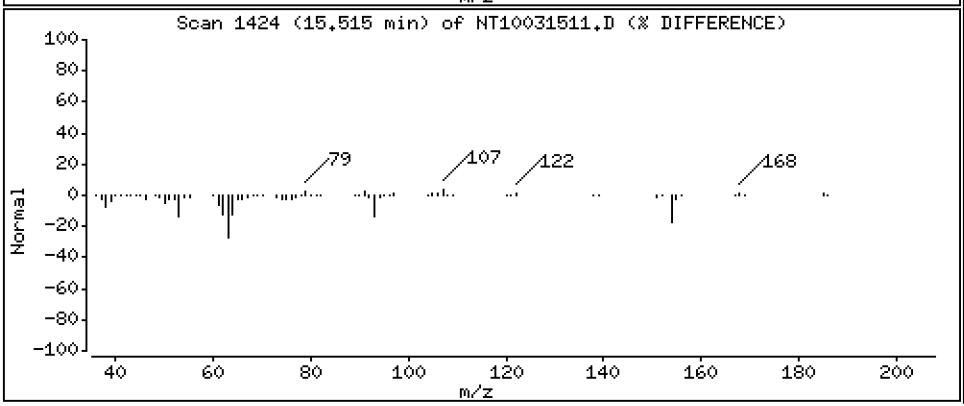












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

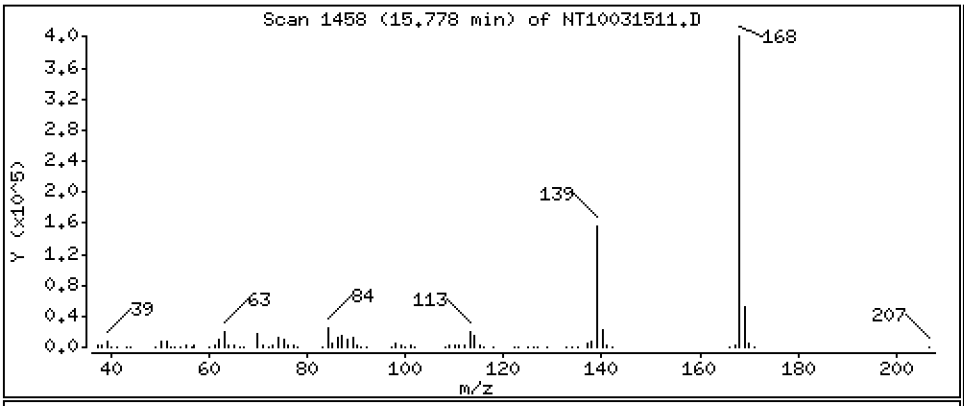
Operator: VTS

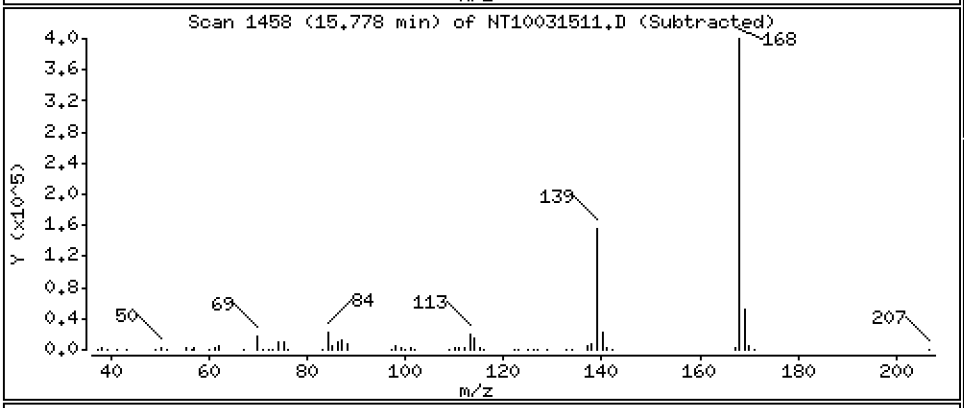
Column phase: ZB-5msi

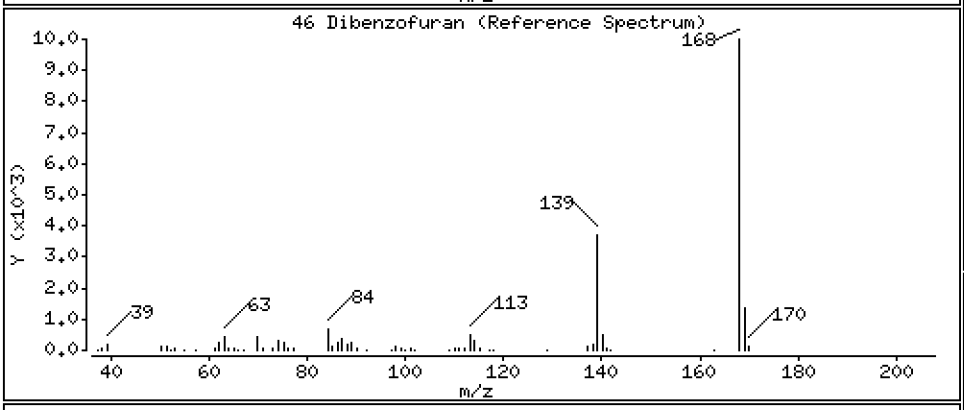
Column diameter: 0.25

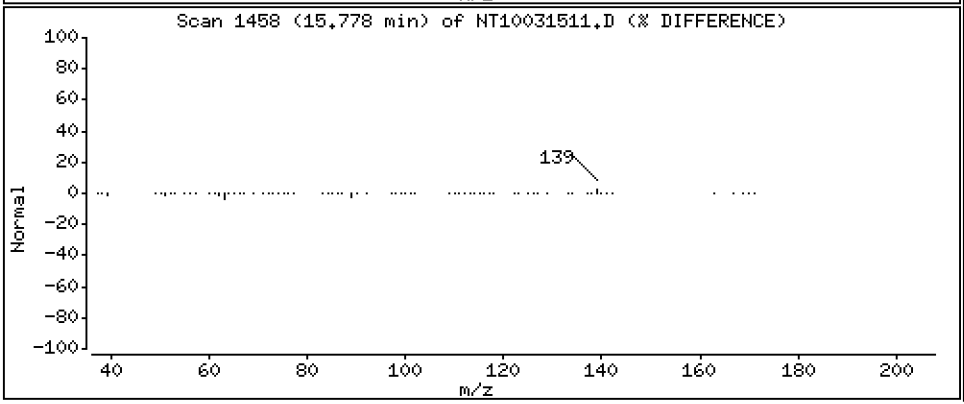
46 Dibenzofuran

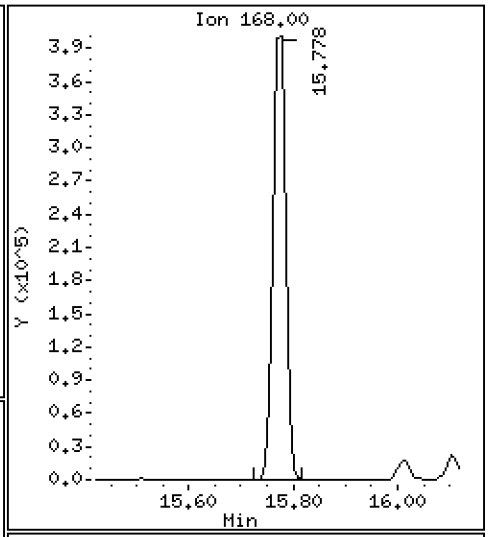
Concentration: 4.648 ug/mL

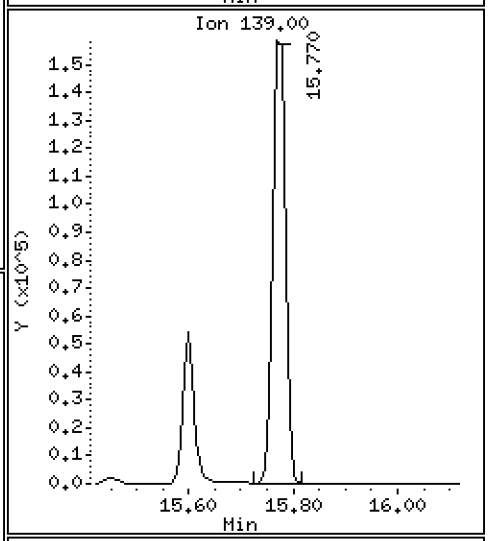


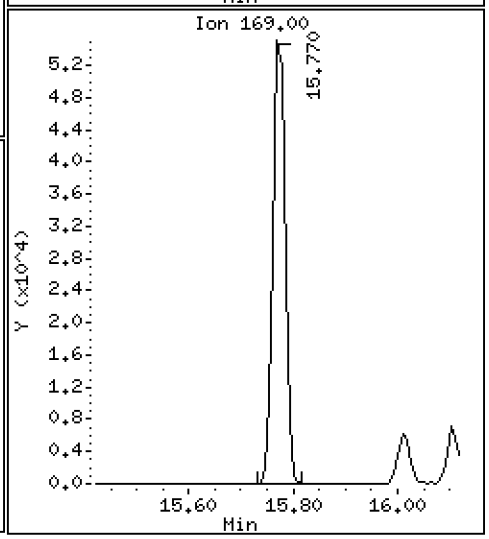












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

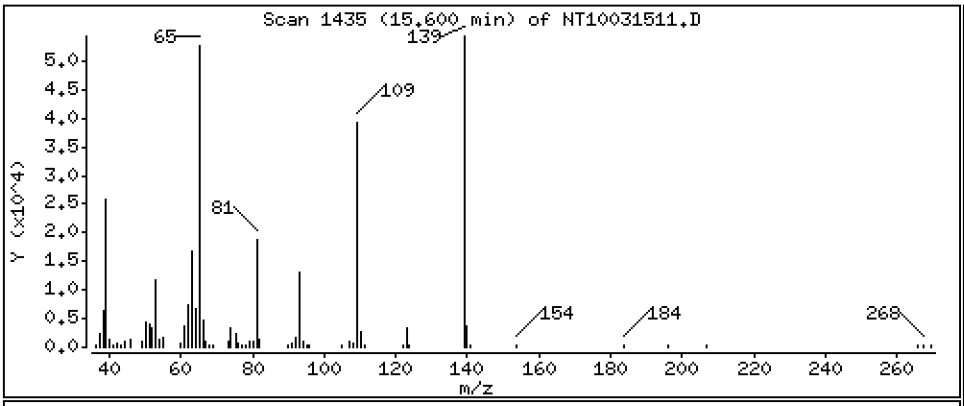
Operator: VTS

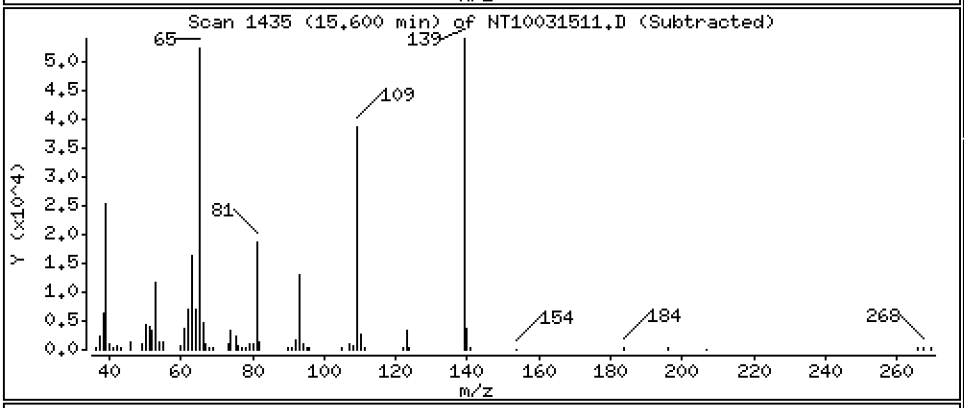
Column phase: ZB-5msi

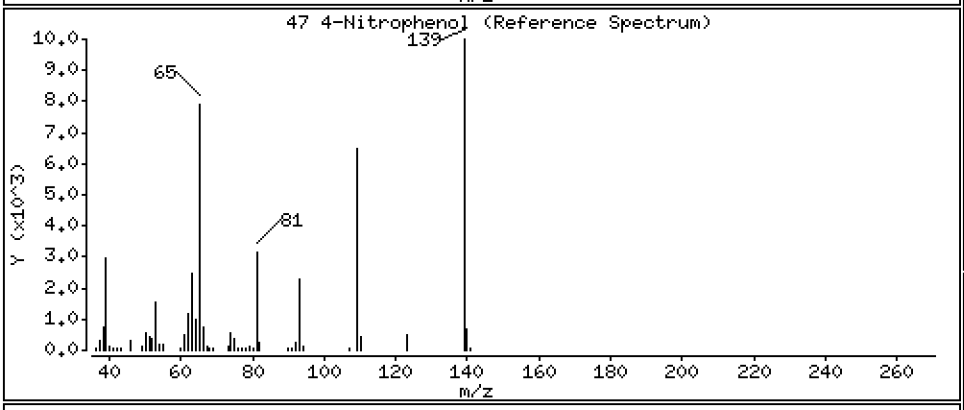
Column diameter: 0.25

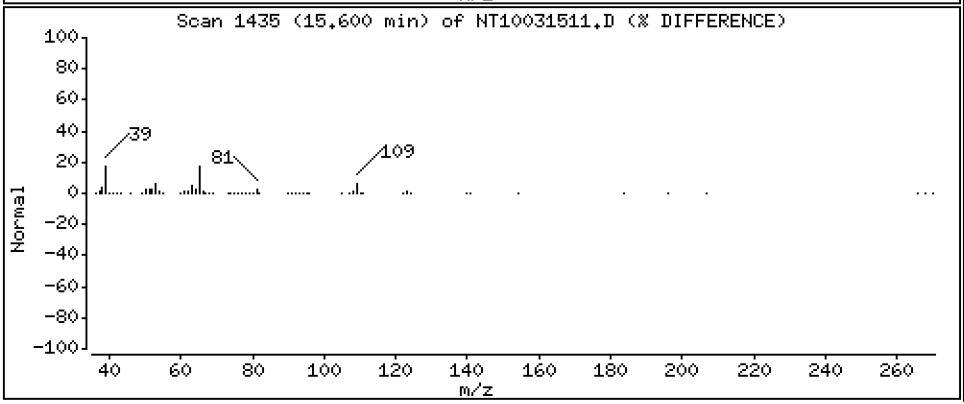
47 4-Nitrophenol

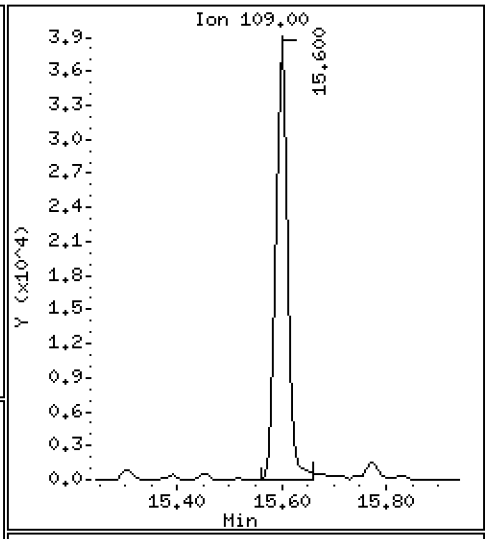
Concentration: 3.966 ug/mL

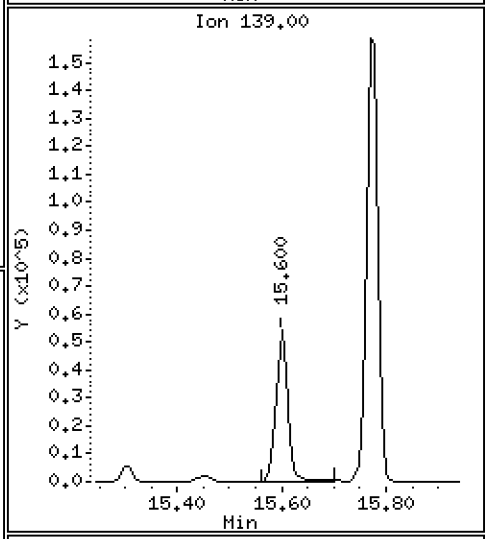


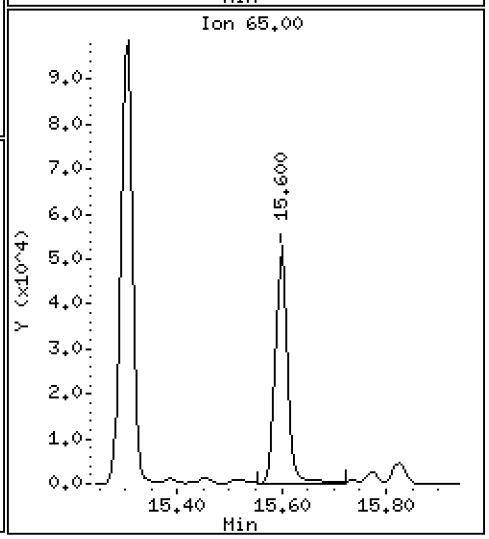












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

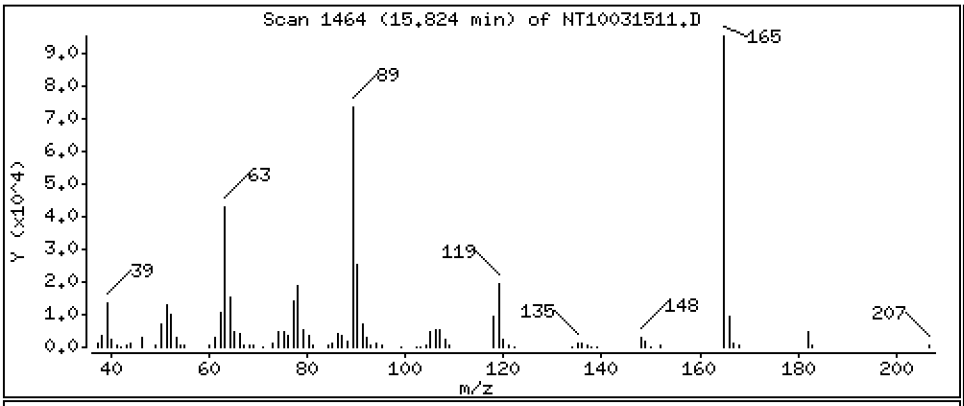
Operator: VTS

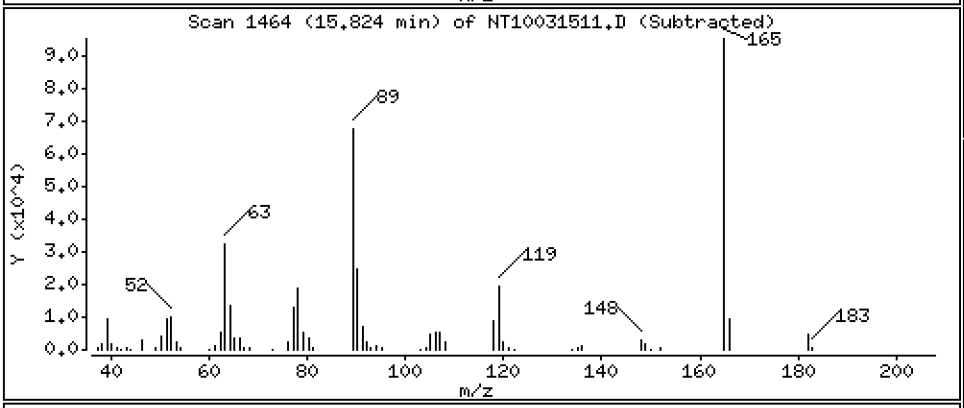
Column phase: ZB-5msi

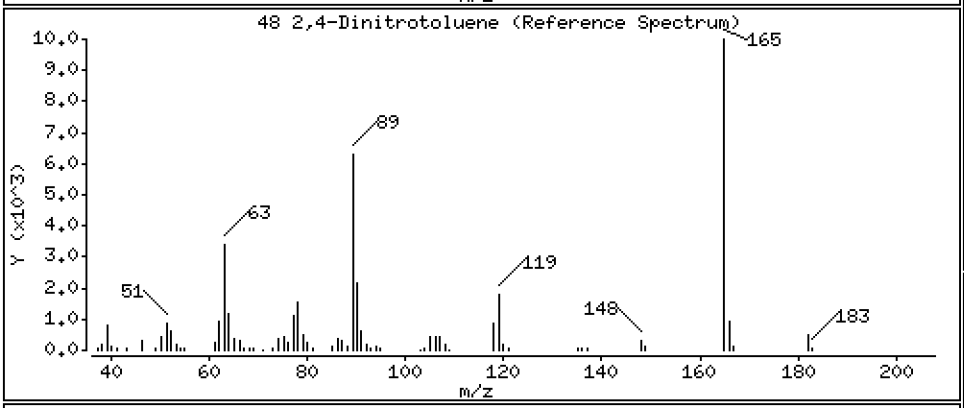
Column diameter: 0.25

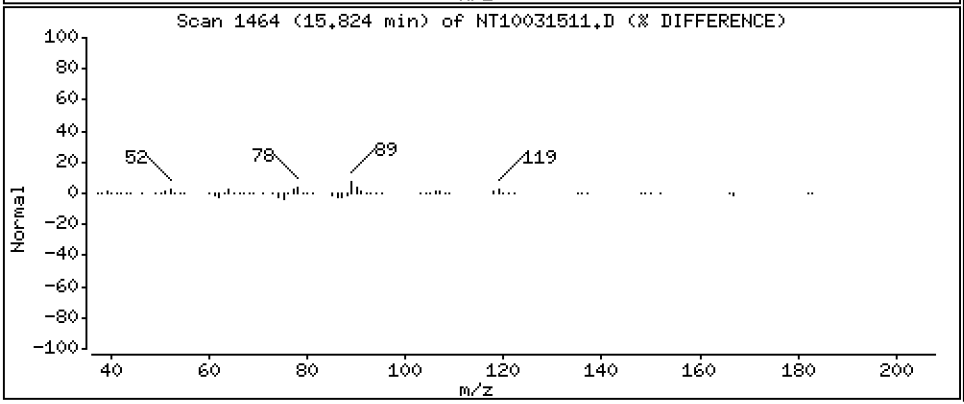
48 2,4-Dinitrotoluene

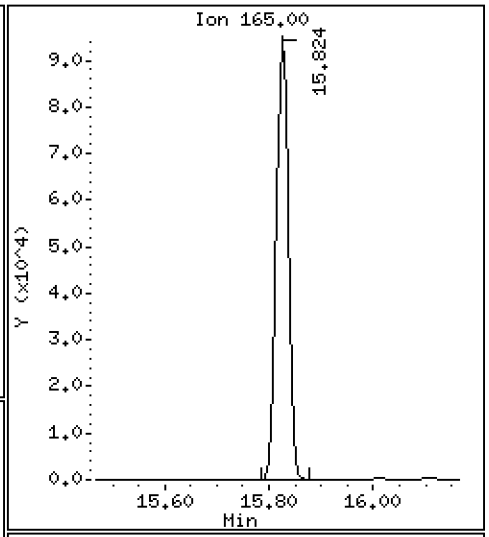
Concentration: 4.510 ug/mL

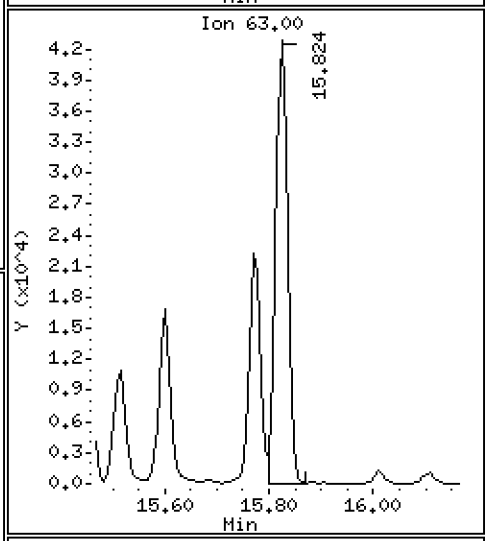


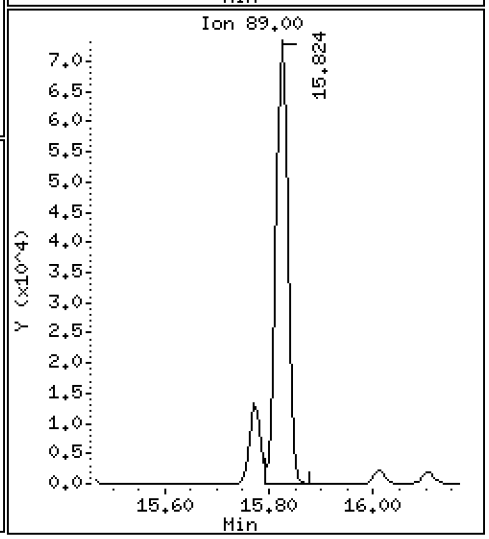












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

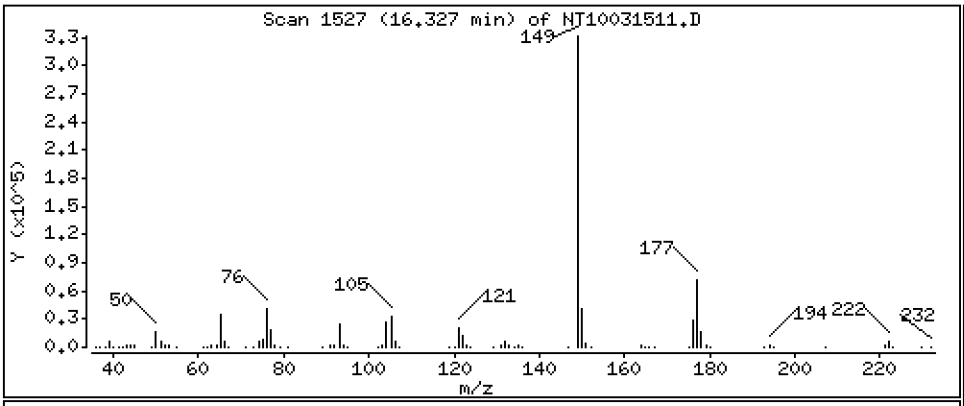
Operator: VTS

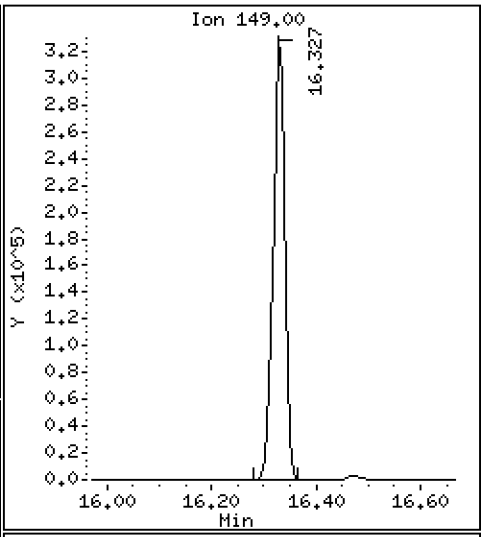
Column phase: ZB-5msi

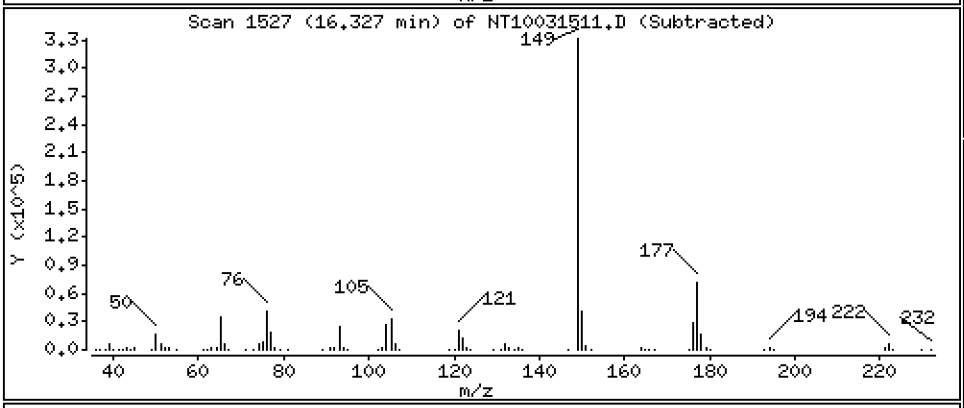
Column diameter: 0.25

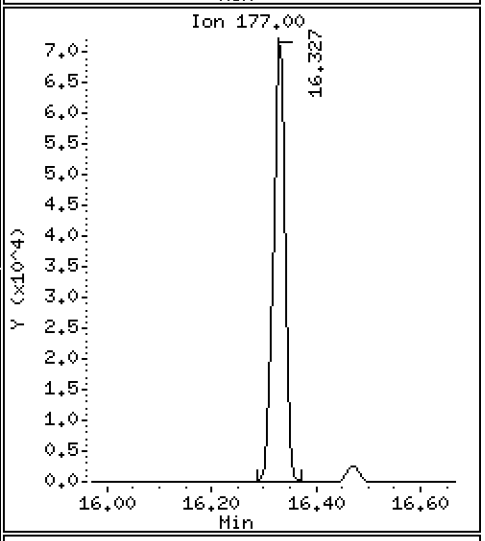
50 Diethylphthalate

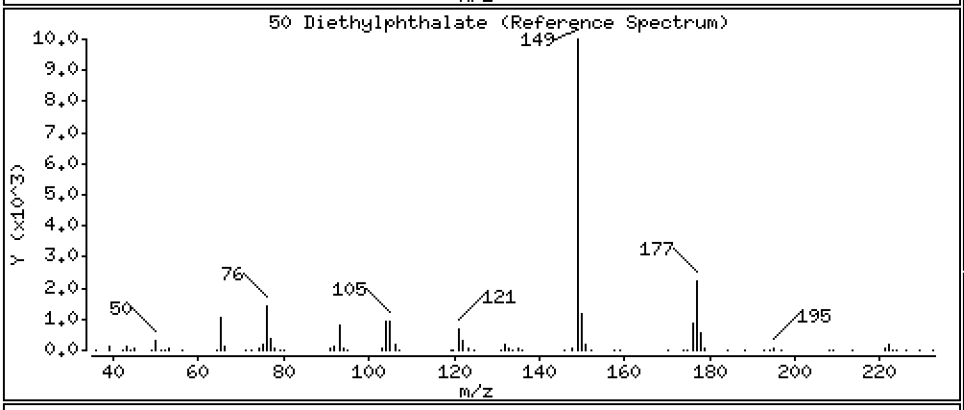
Concentration: 5.209 ug/mL

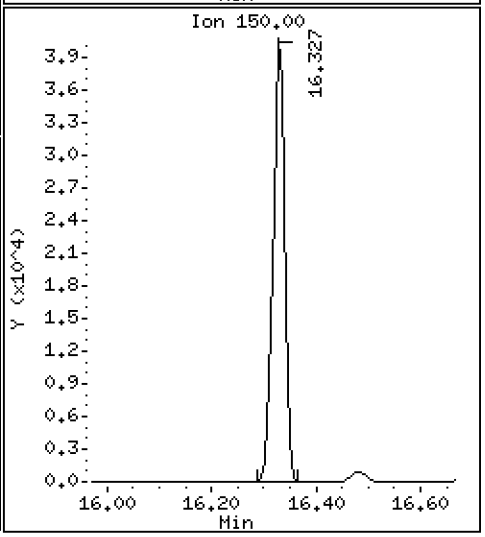


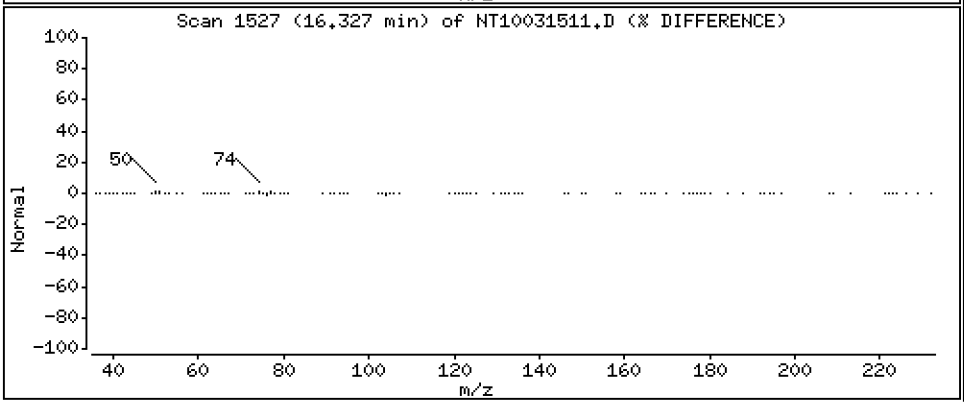












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

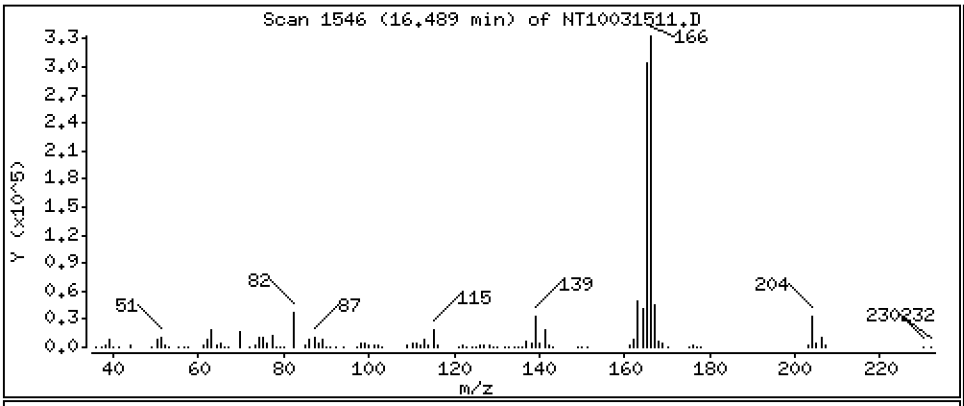
Operator: VTS

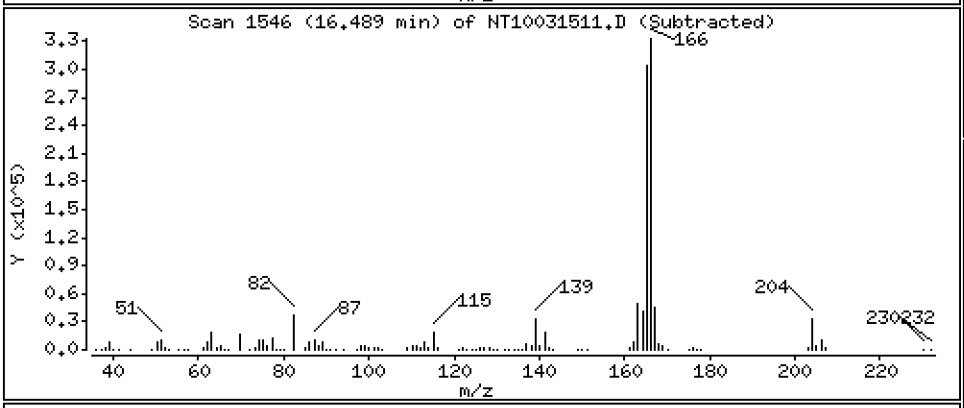
Column phase: ZB-5msi

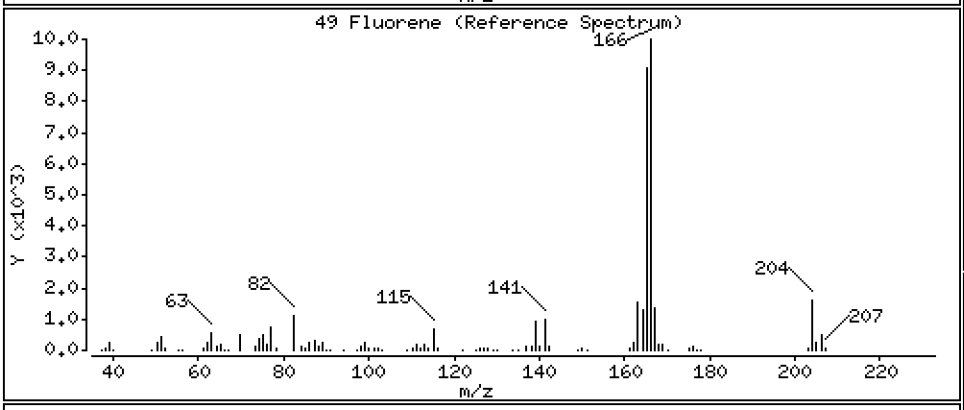
Column diameter: 0.25

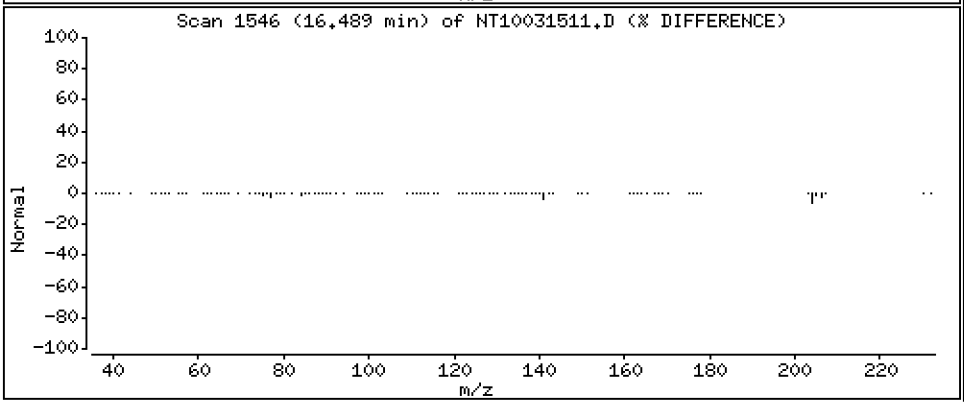
49 Fluorene

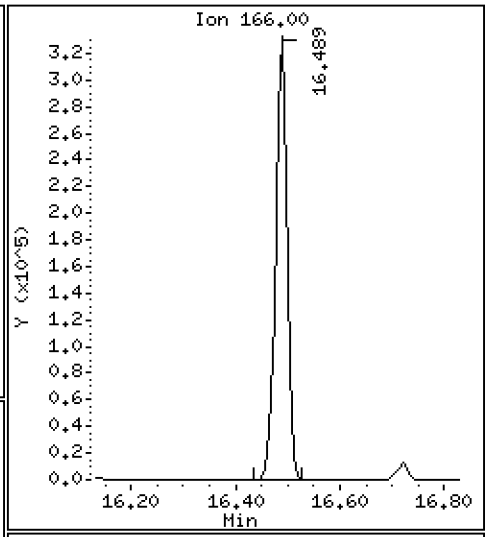
Concentration: 4.708 ug/mL

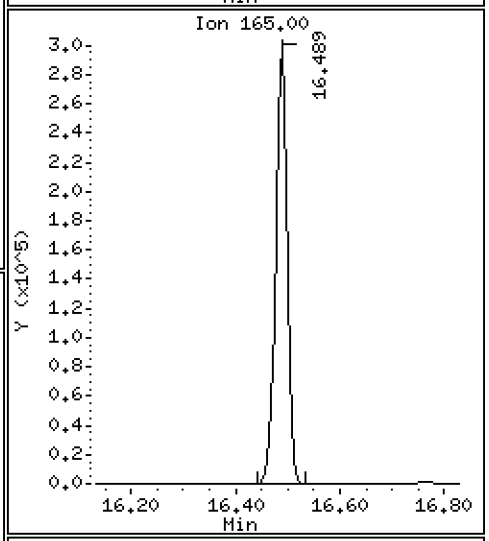


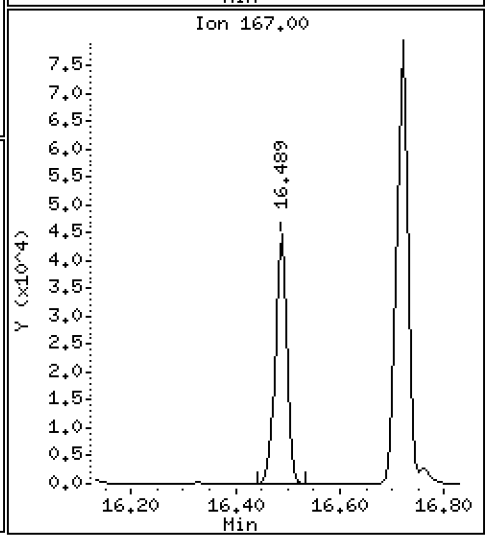












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

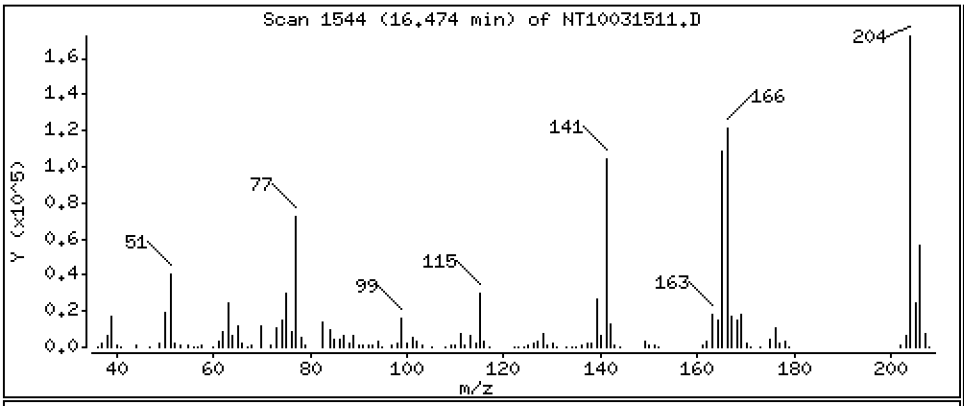
Operator: VTS

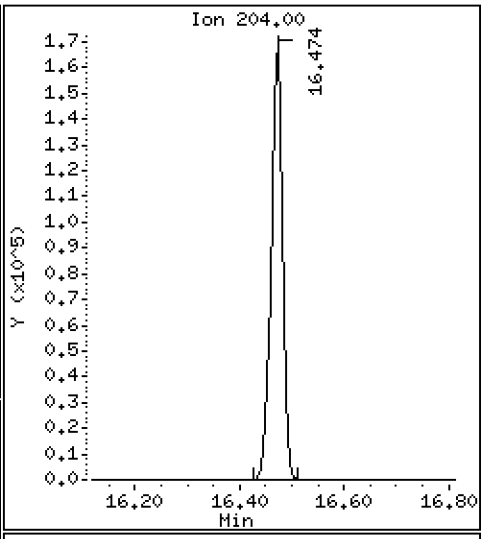
Column phase: ZB-5msi

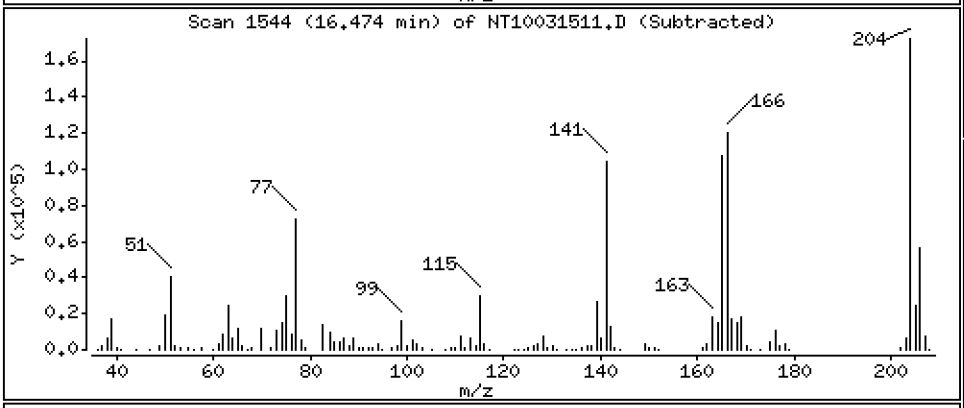
Column diameter: 0.25

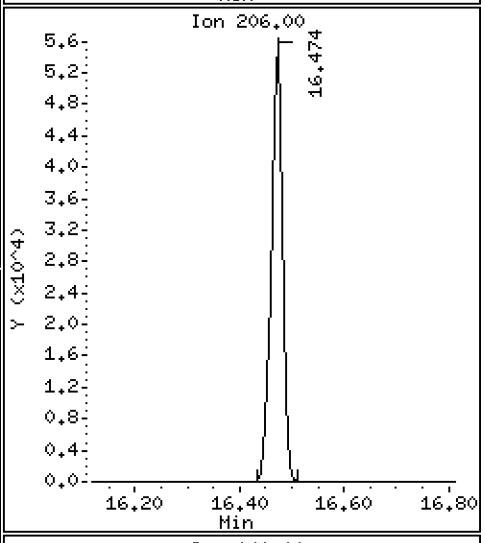
51 4-Chlorophenyl-phenylether

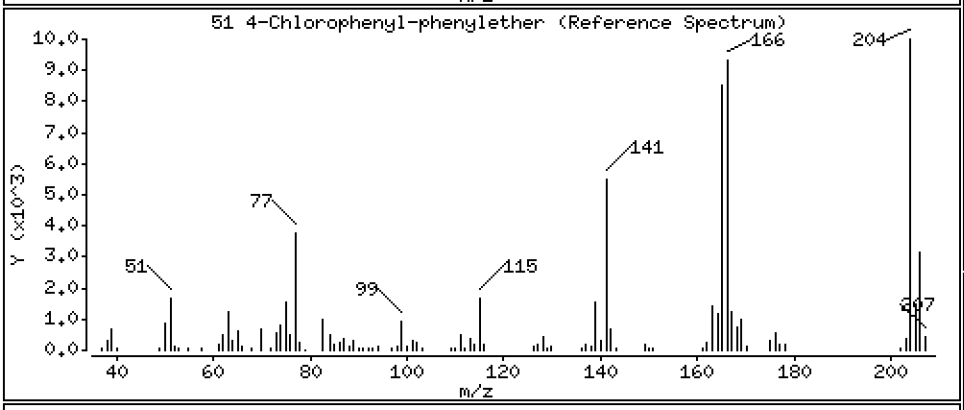
Concentration: 4.993 ug/mL

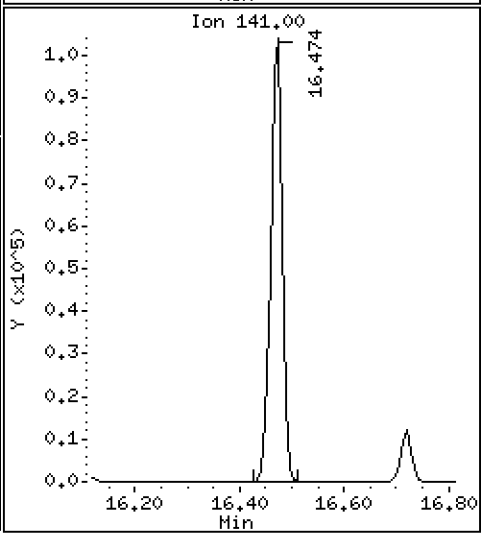


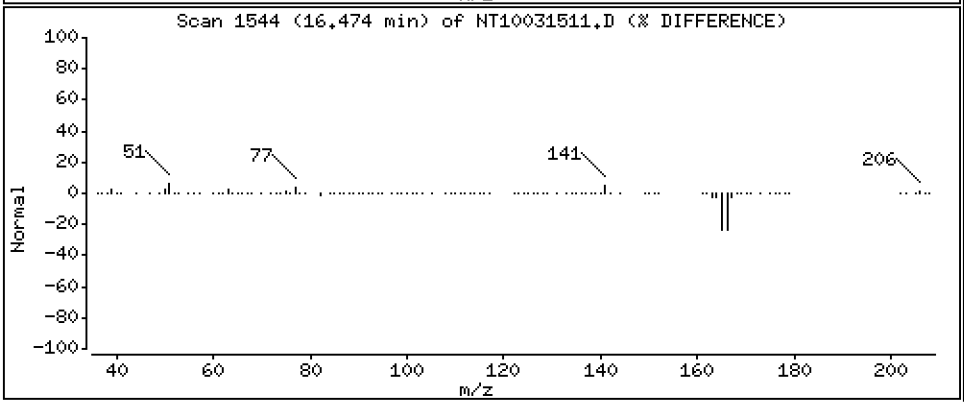












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

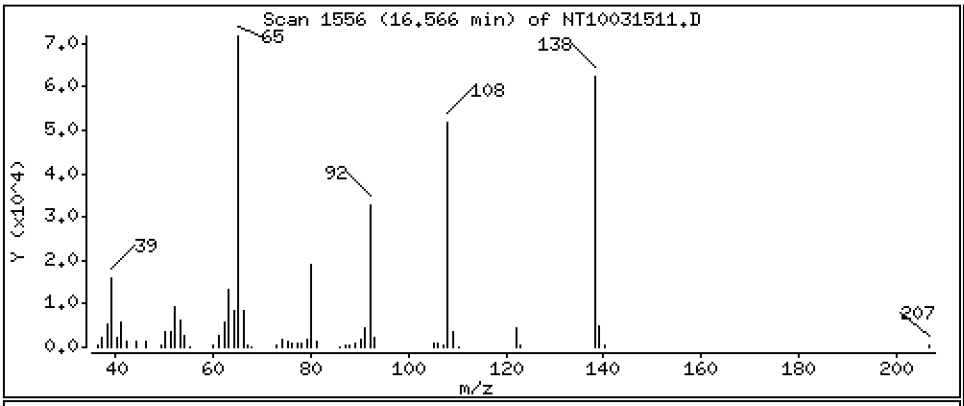
Operator: VTS

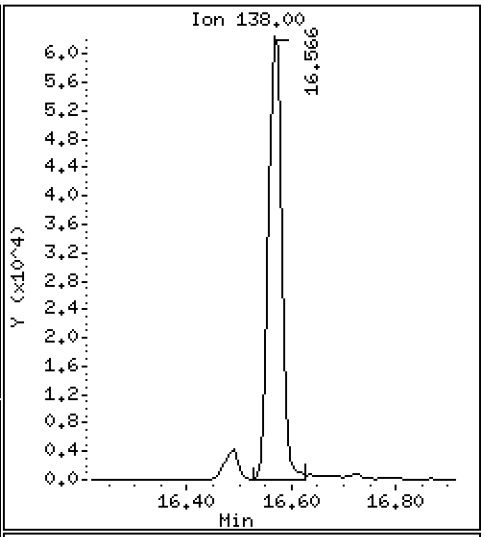
Column phase: ZB-5msi

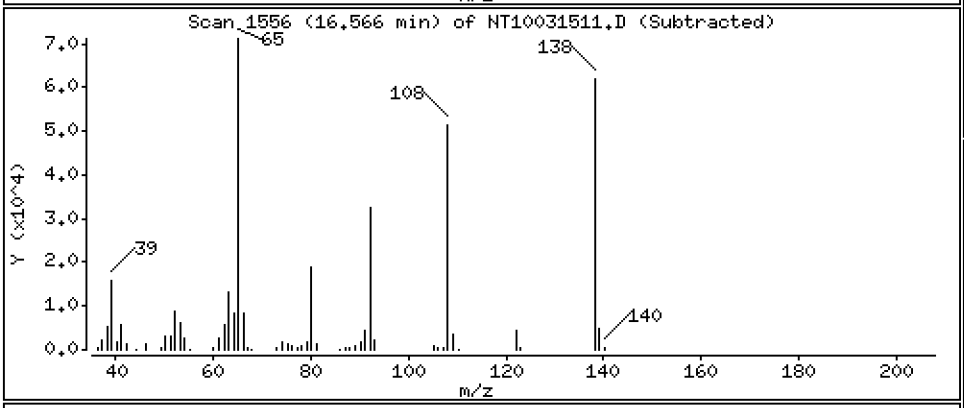
Column diameter: 0.25

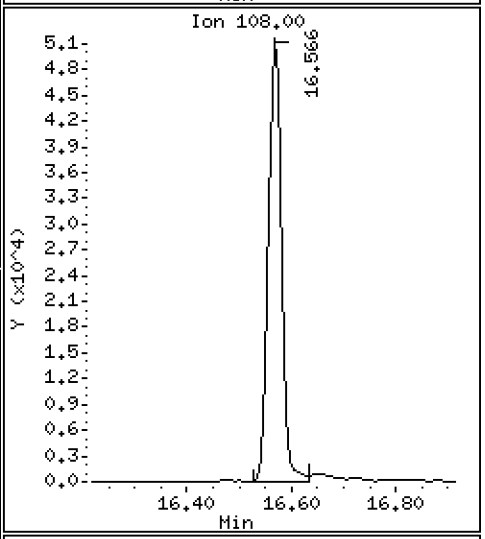
52 4-Nitroaniline

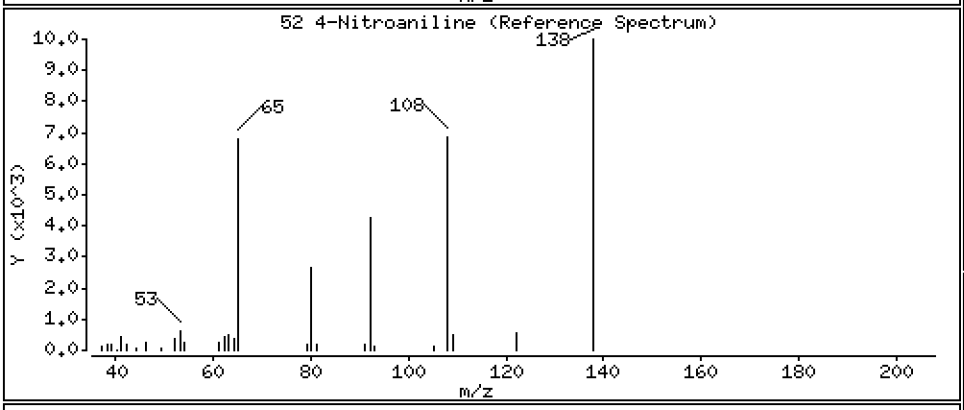
Concentration: 4.925 ug/mL

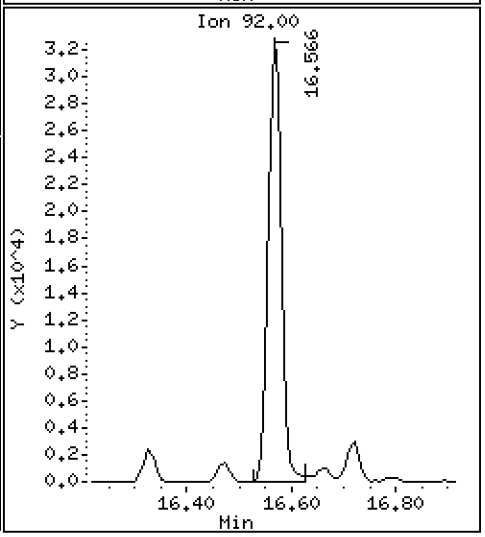


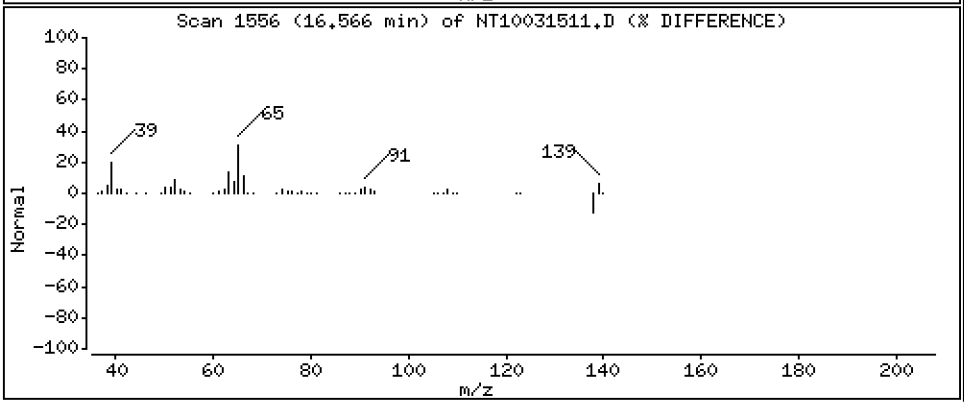












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

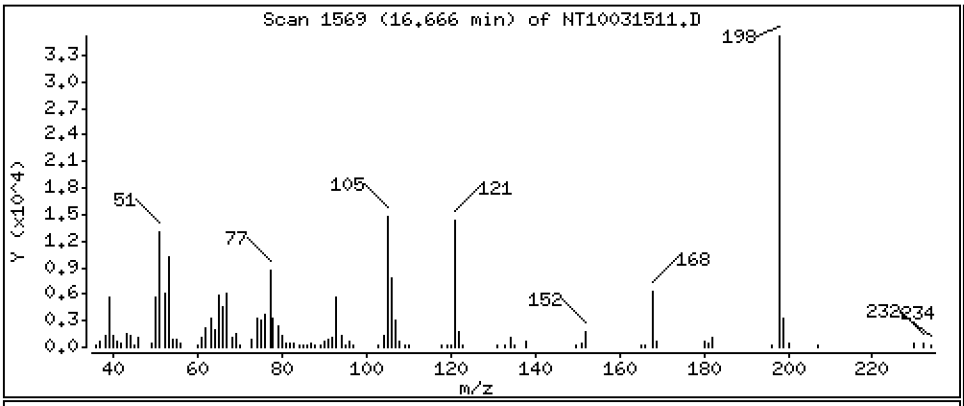
Operator: VTS

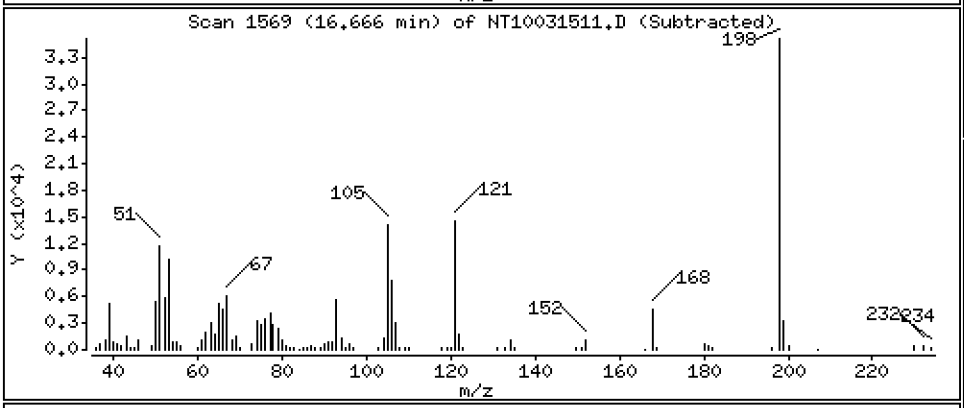
Column phase: ZB-5msi

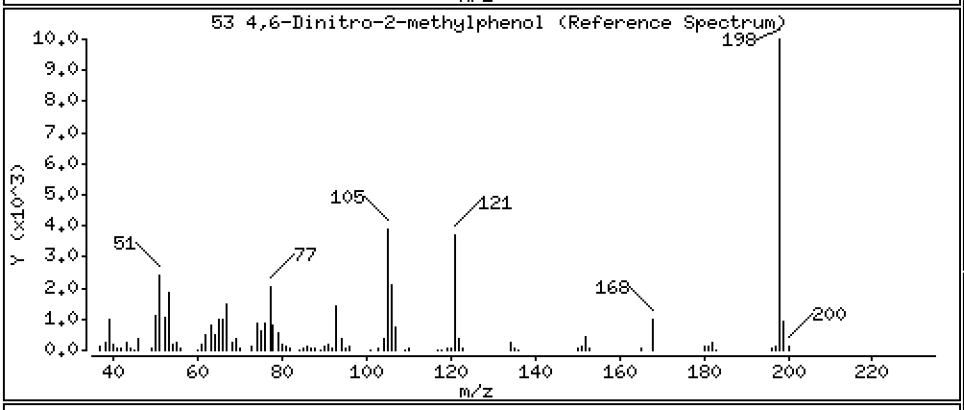
Column diameter: 0.25

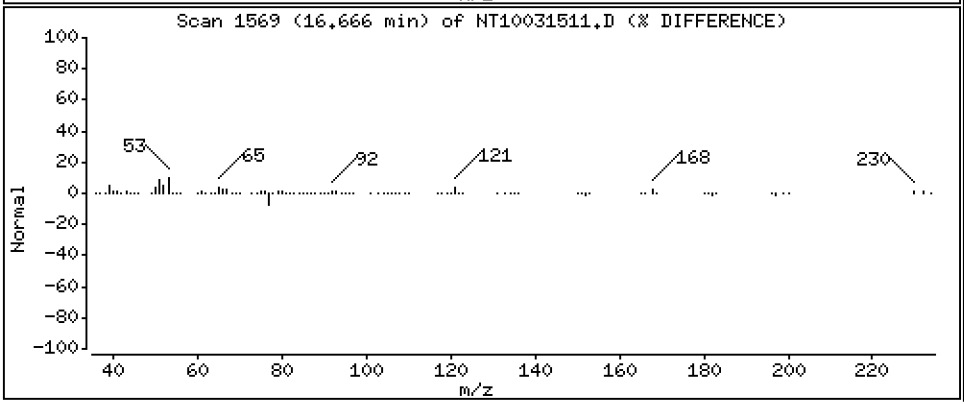
53 4,6-Dinitro-2-methylphenol

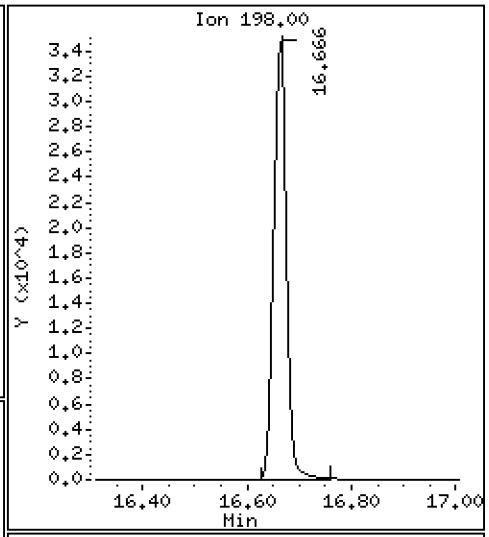
Concentration: 3.515 ug/mL

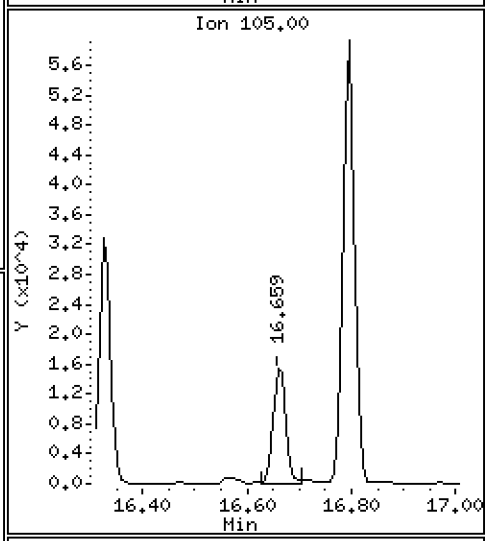


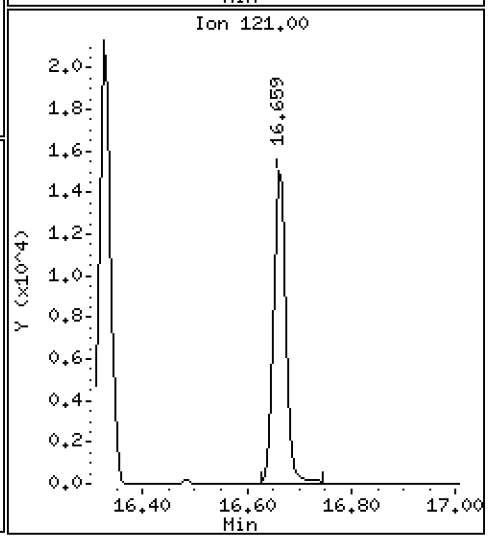












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

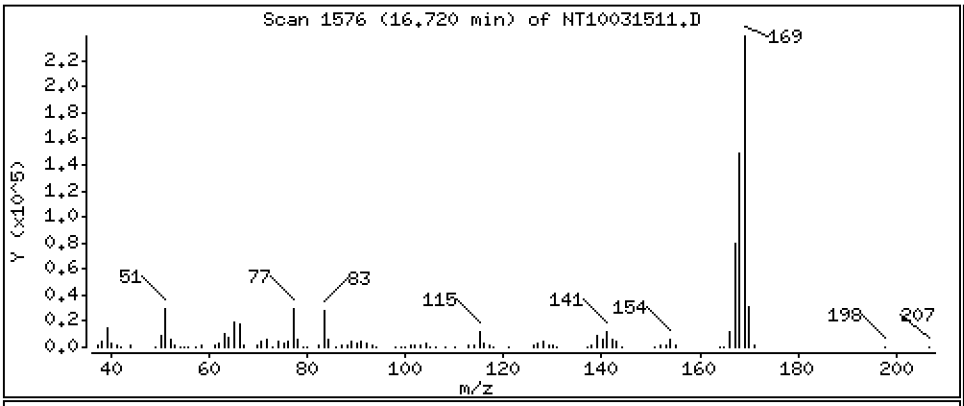
Operator: VTS

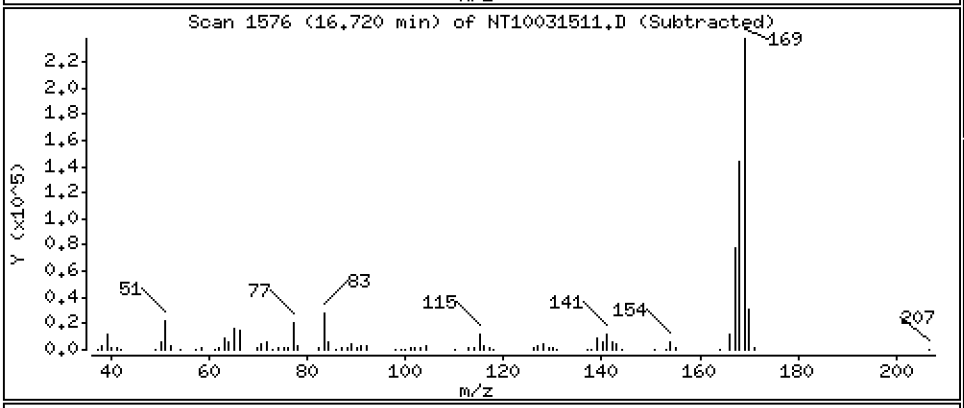
Column phase: ZB-5msi

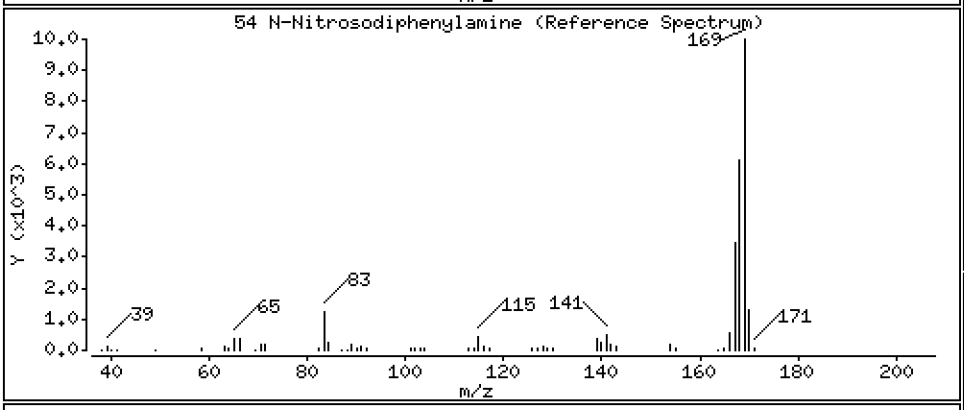
Column diameter: 0.25

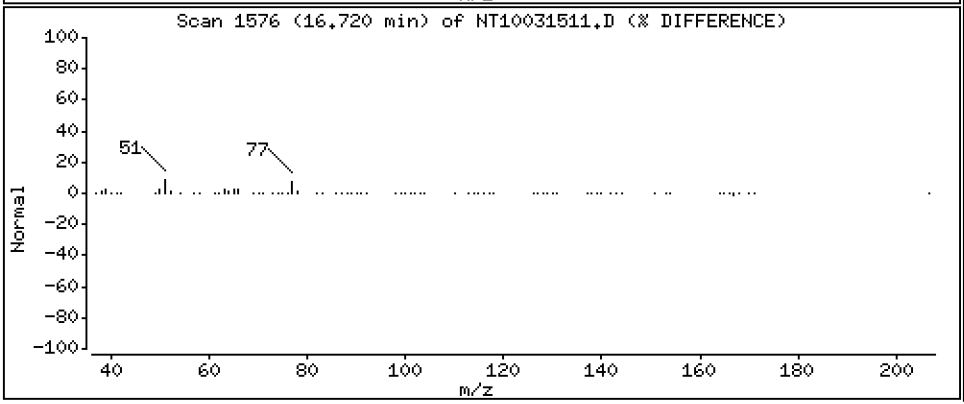
54 N-Nitrosodiphenylamine

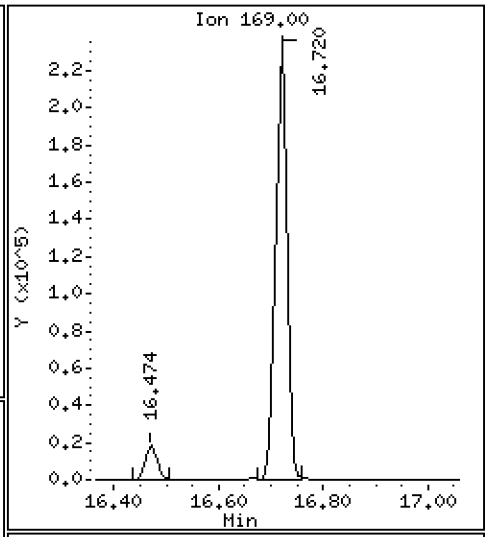
Concentration: 4.802 ug/mL

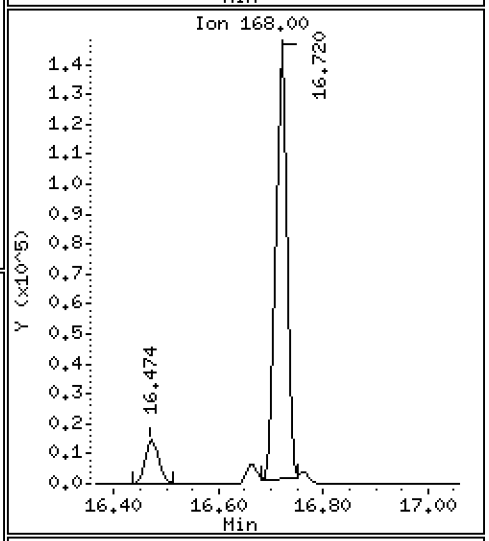


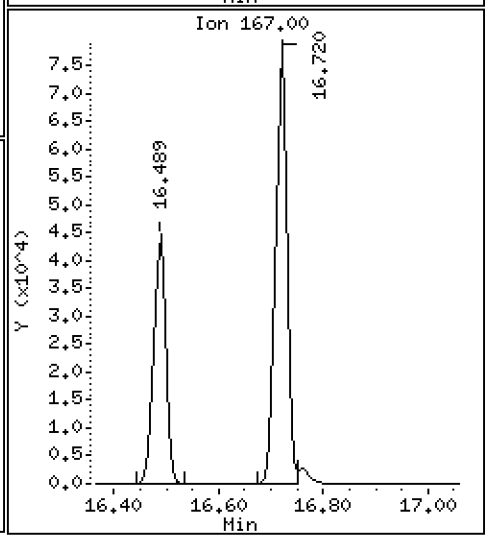












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

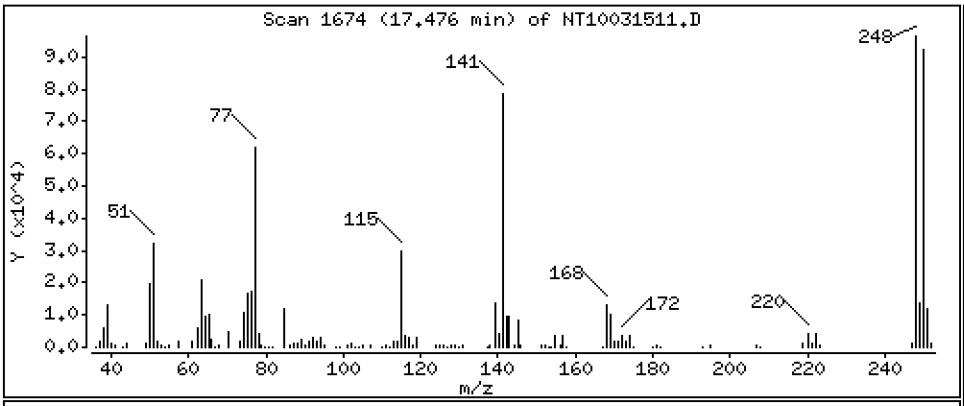
Operator: VTS

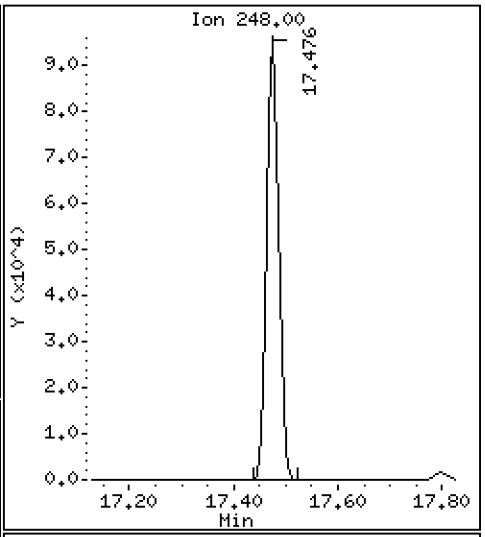
Column phase: ZB-5msi

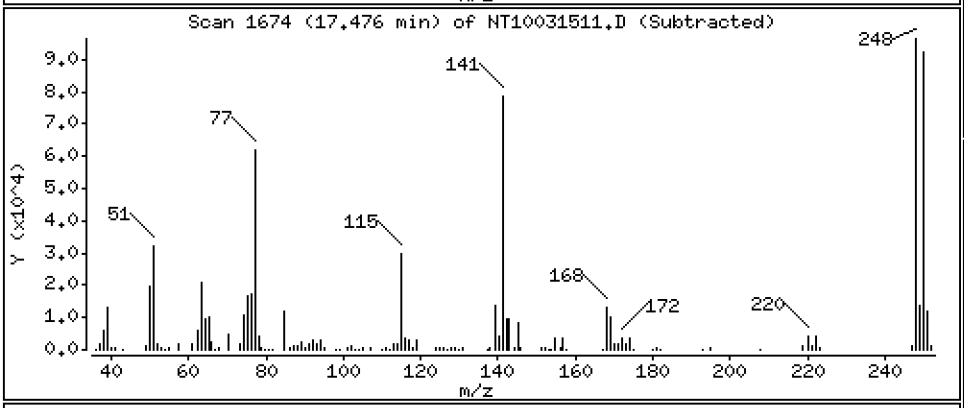
Column diameter: 0.25

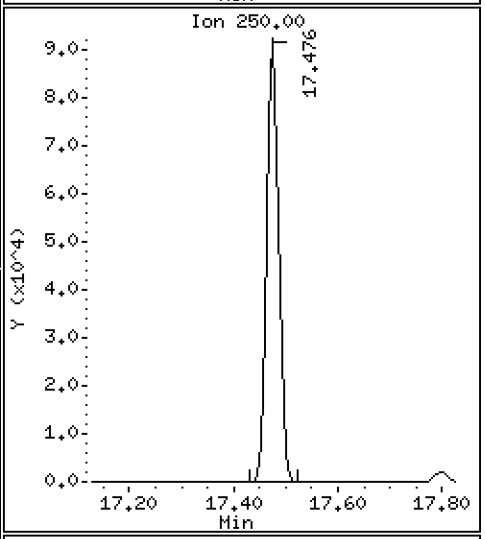
56 4-Bromophenyl-phenylether

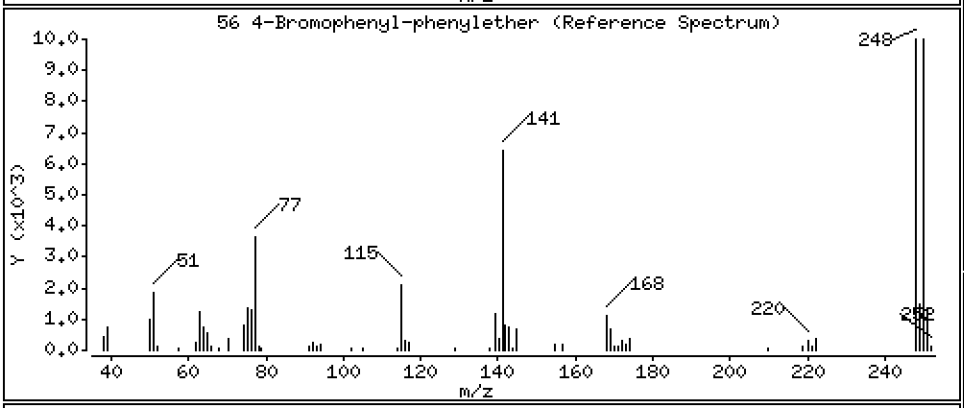
Concentration: 5.060 ug/mL

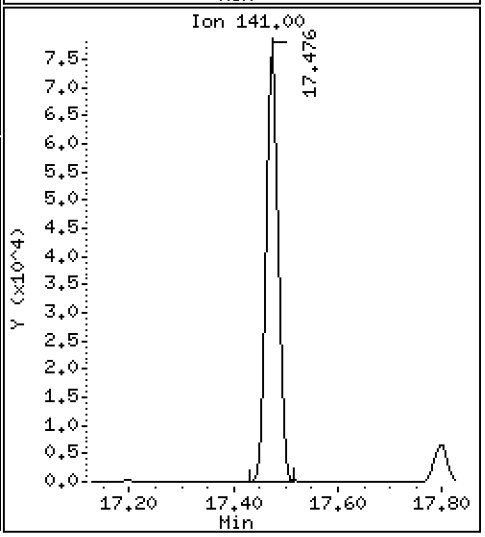


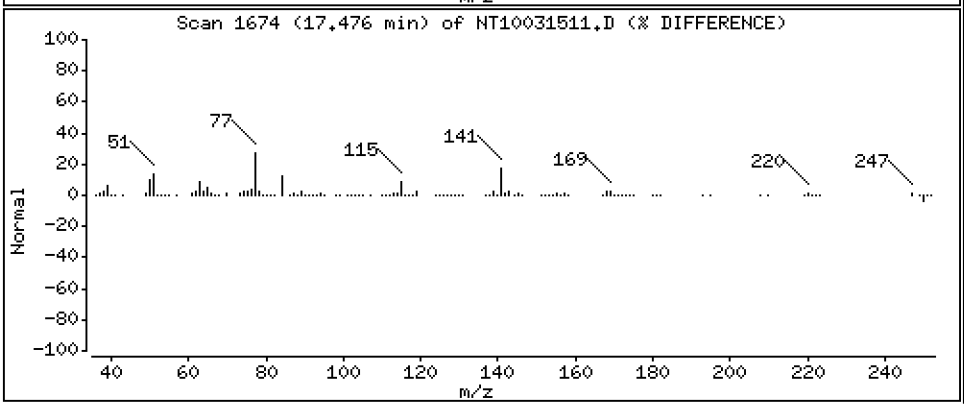












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

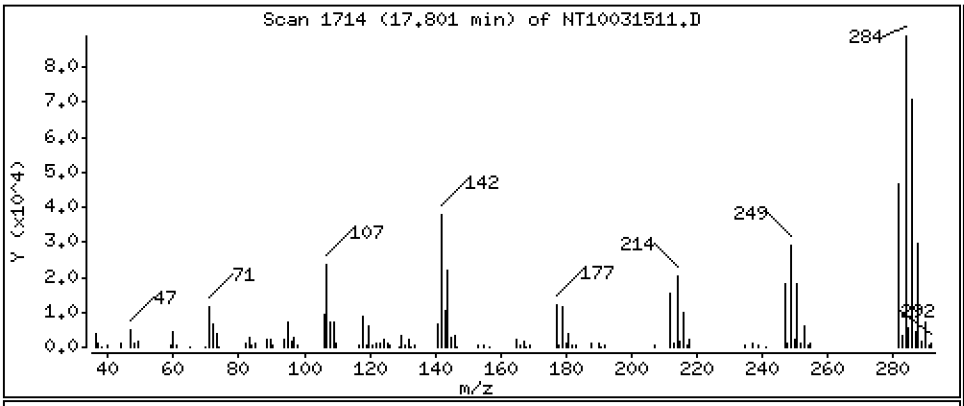
Operator: VTS

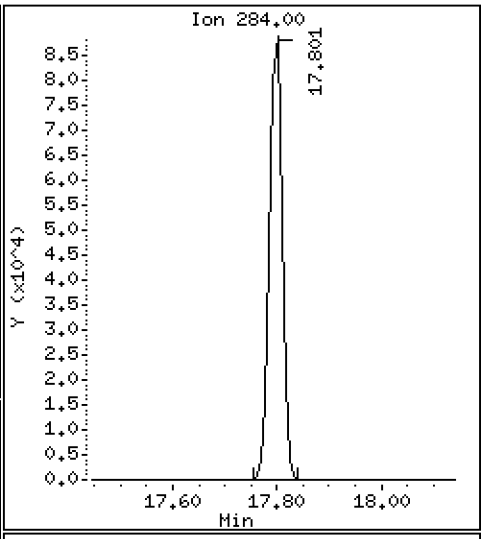
Column phase: ZB-5msi

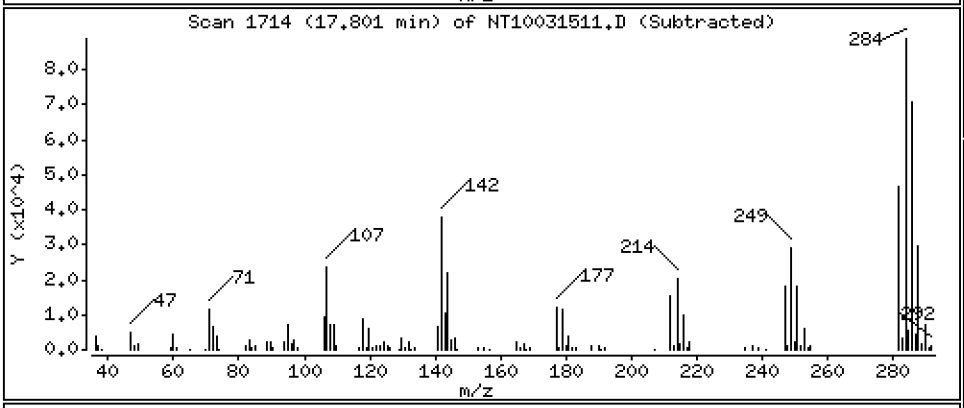
Column diameter: 0.25

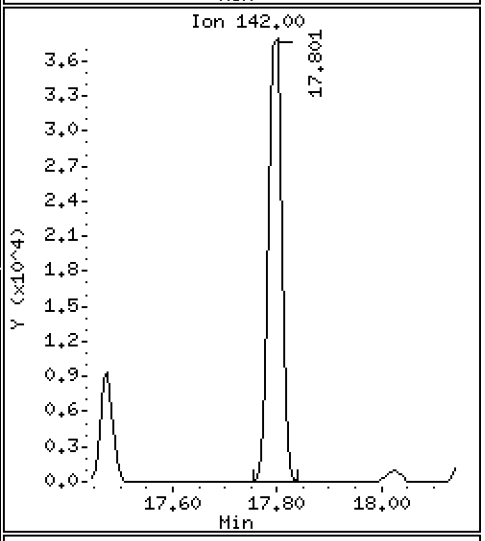
57 Hexachlorobenzene

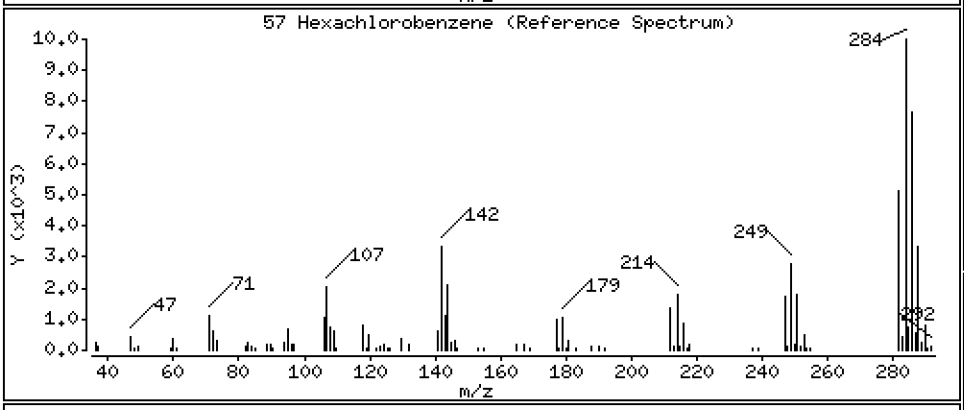
Concentration: 4.596 ug/mL

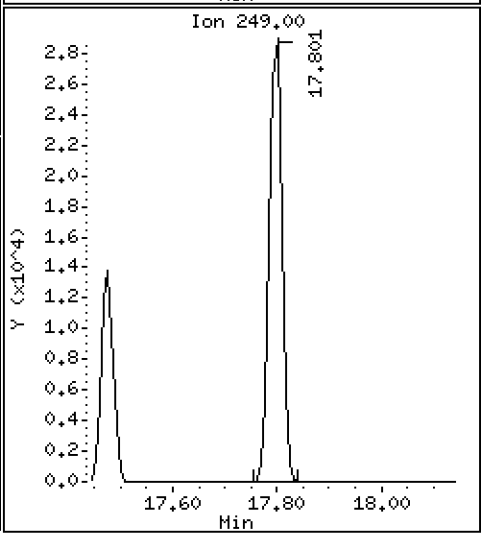


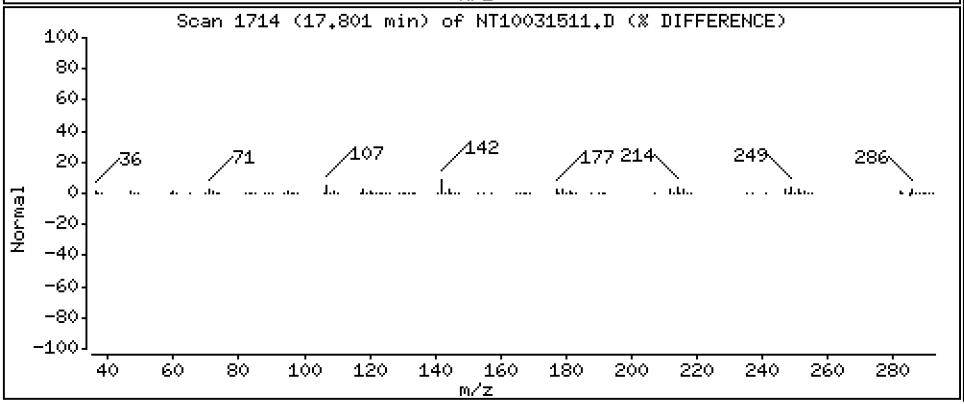












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

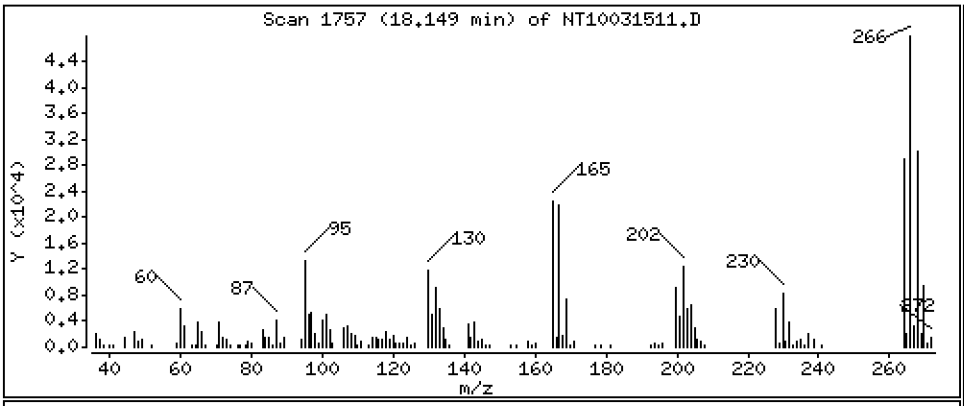
Operator: VTS

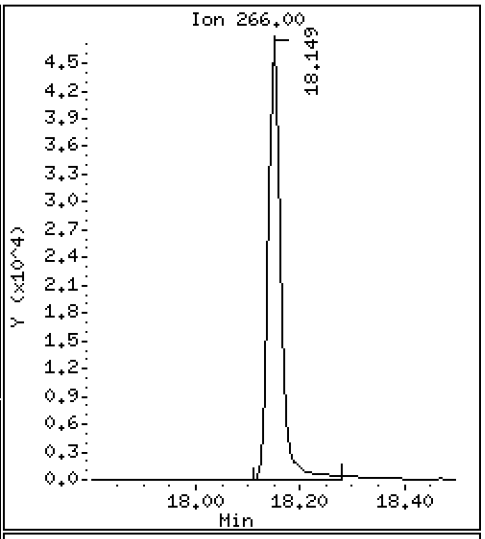
Column phase: ZB-5msi

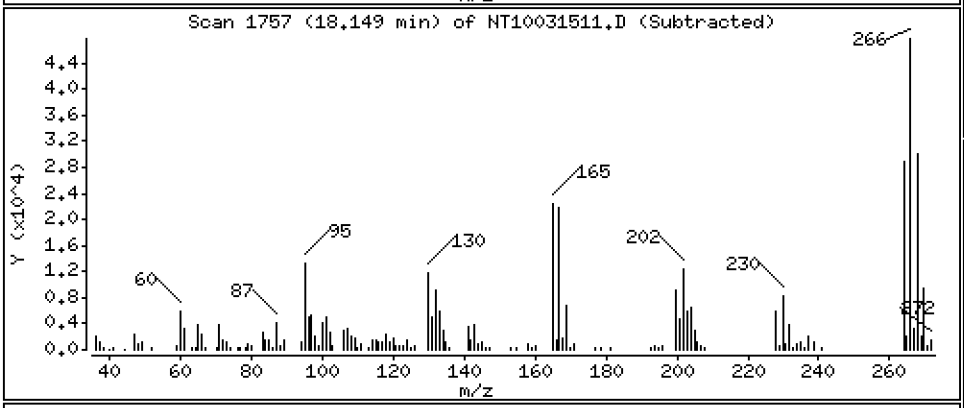
Column diameter: 0.25

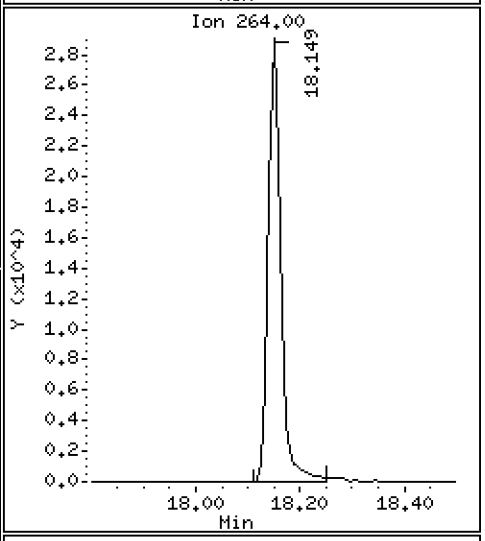
58 Pentachlorophenol

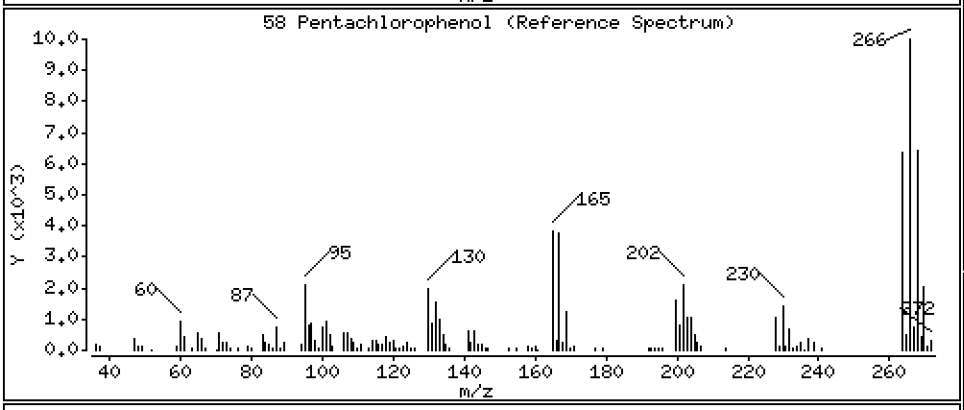
Concentration: 4.057 ug/mL

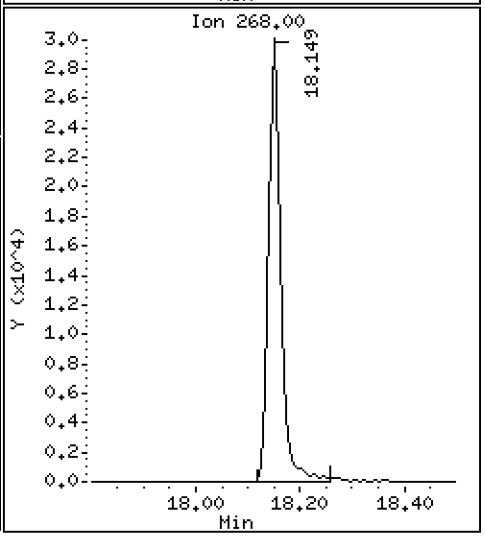


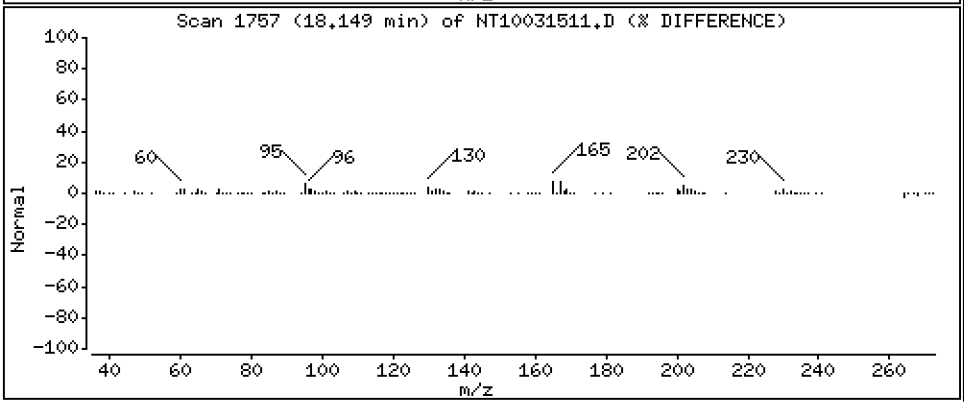












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

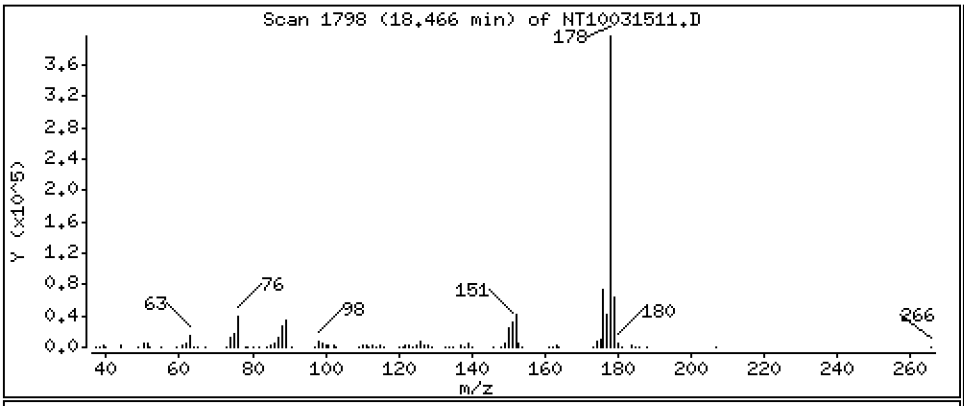
Operator: VTS

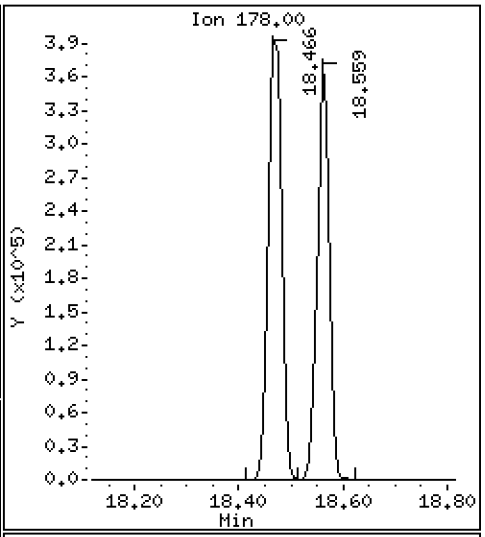
Column phase: ZB-5msi

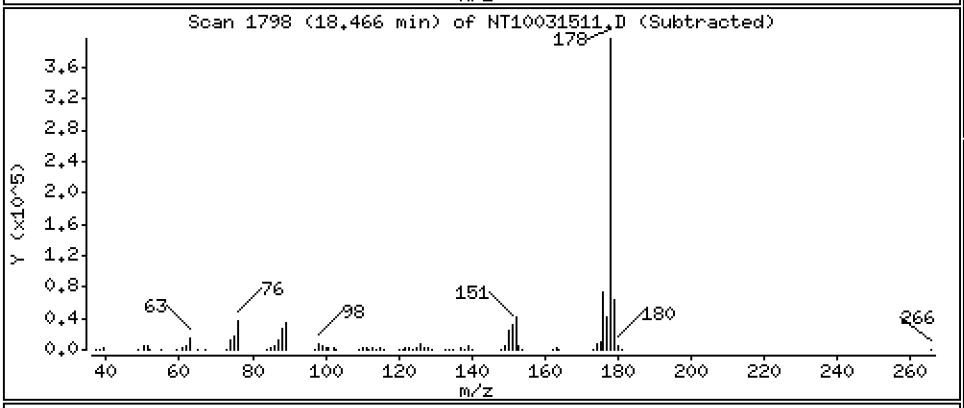
Column diameter: 0.25

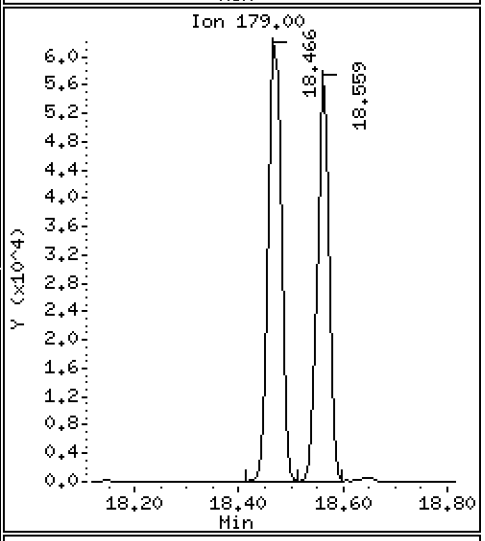
60 Phenanthrene

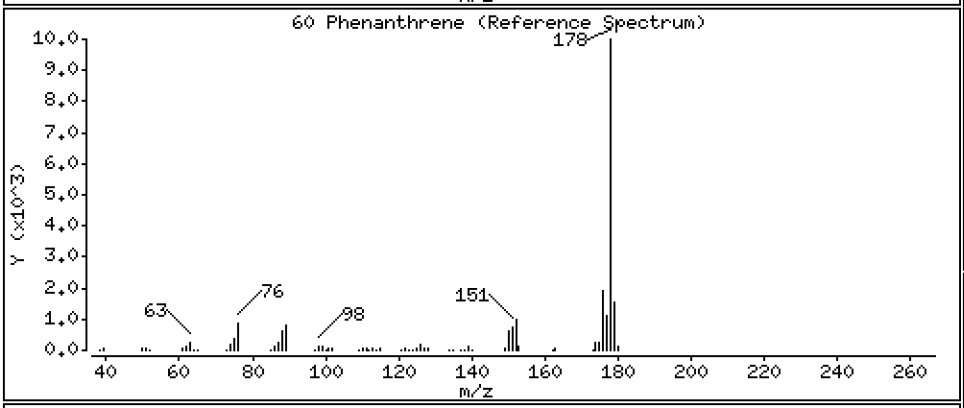
Concentration: 4.602 ug/mL

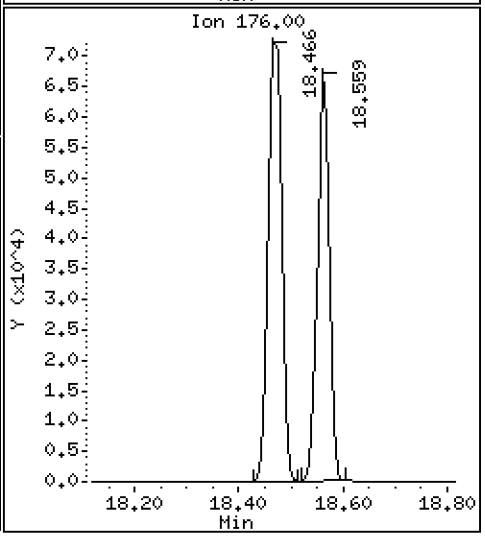


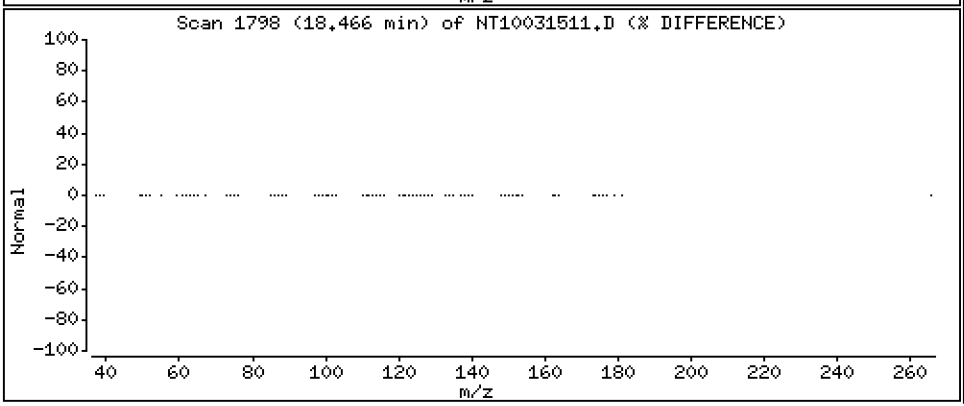












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

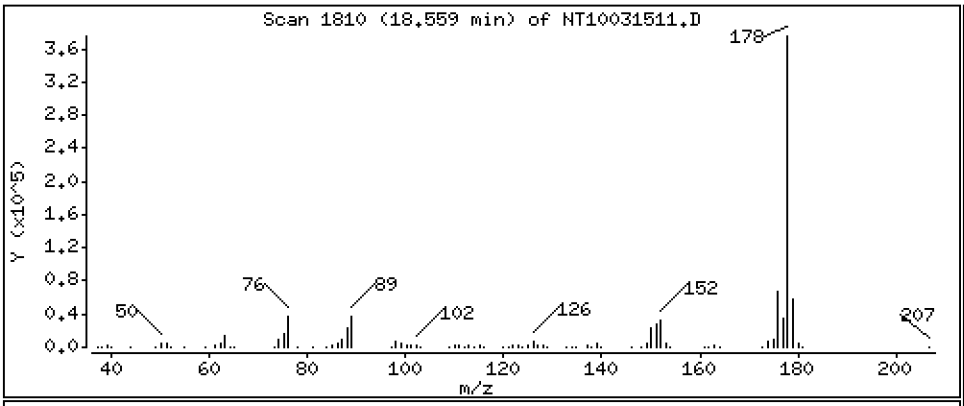
Operator: VTS

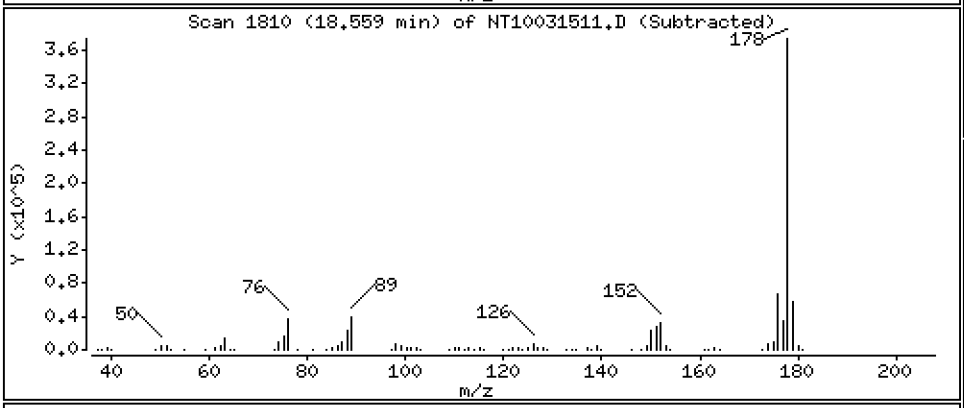
Column phase: ZB-5msi

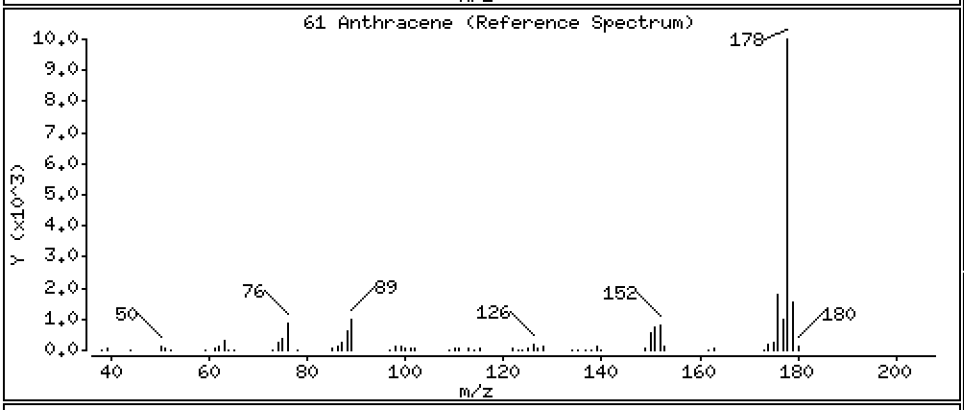
Column diameter: 0.25

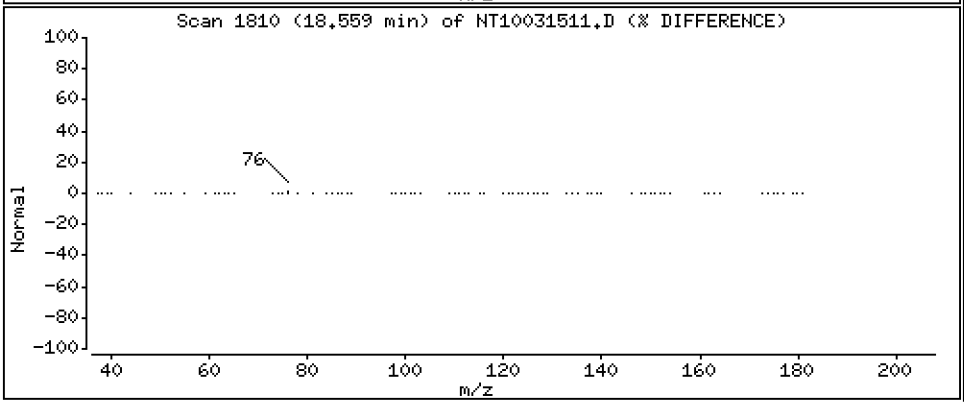
61 Anthracene

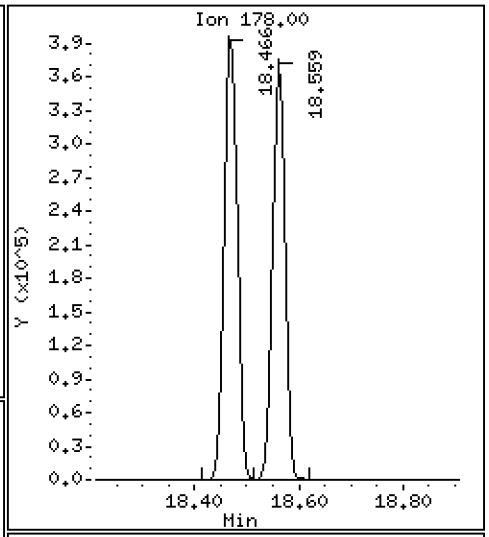
Concentration: 4.167 ug/mL

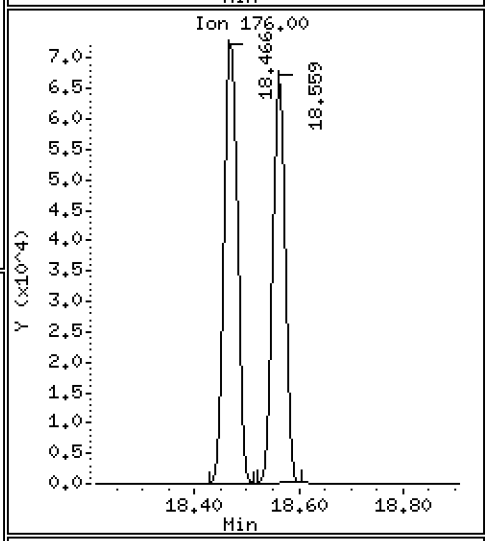


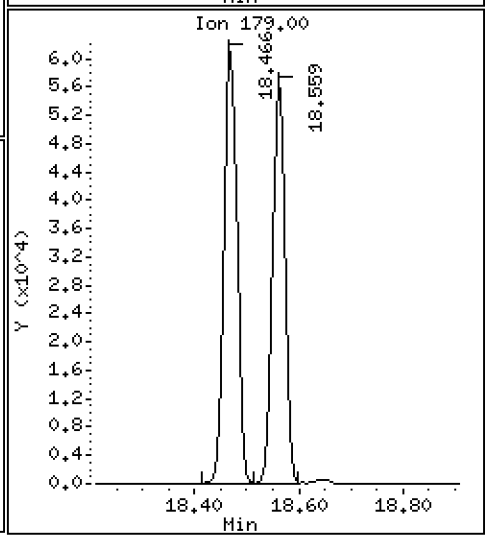












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

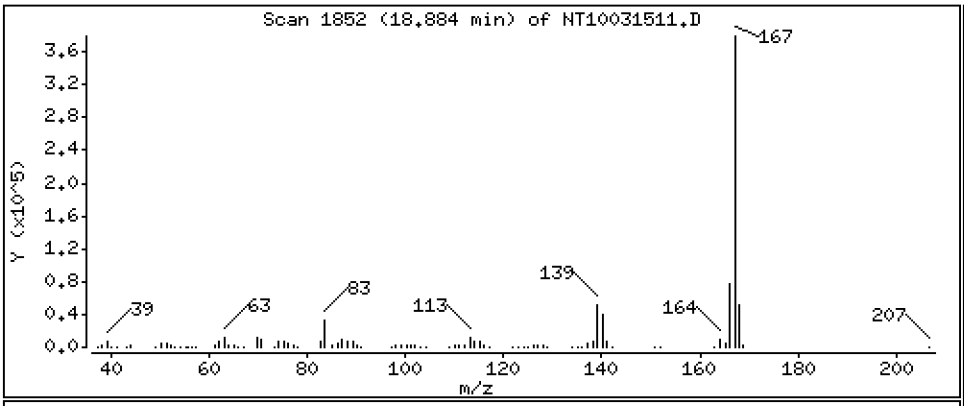
Operator: VTS

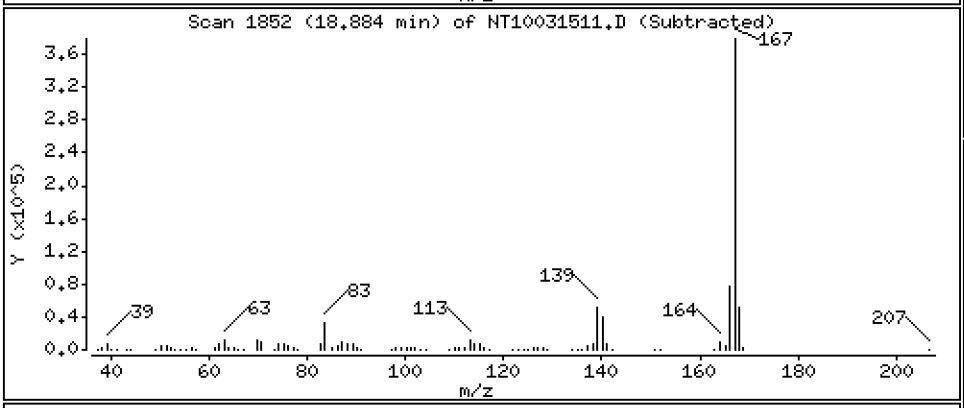
Column phase: ZB-5msi

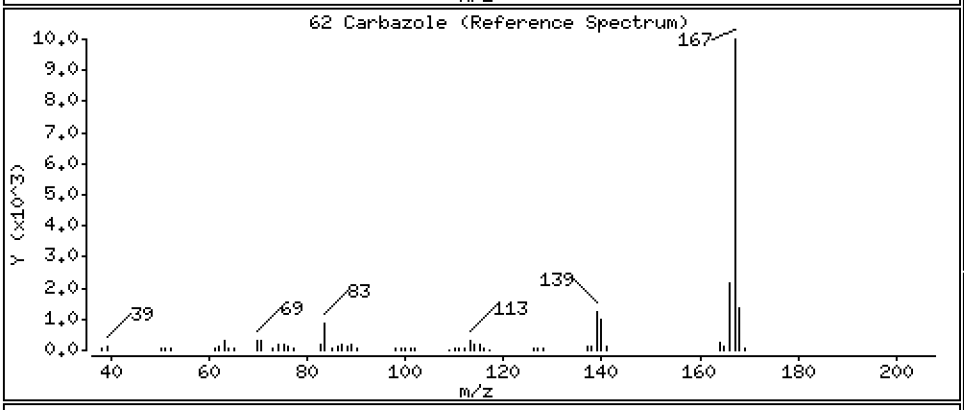
Column diameter: 0.25

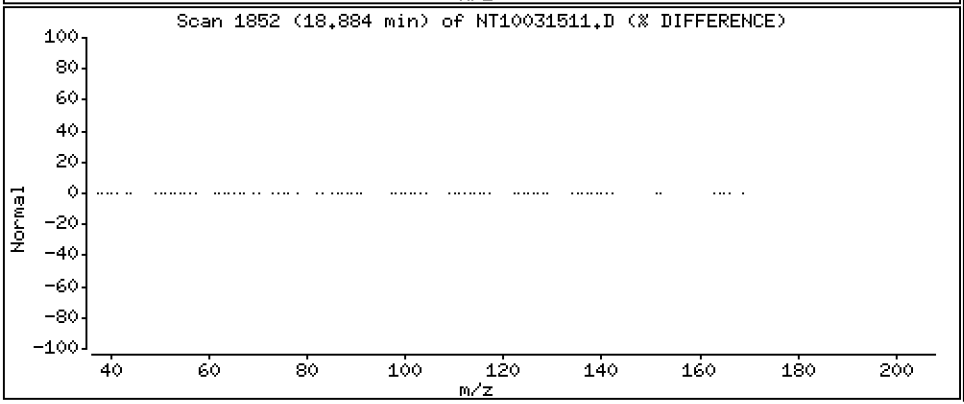
62 Carbazole

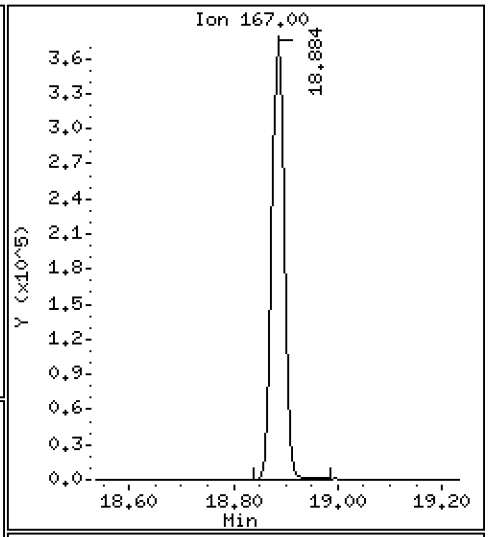
Concentration: 4.730 ug/mL

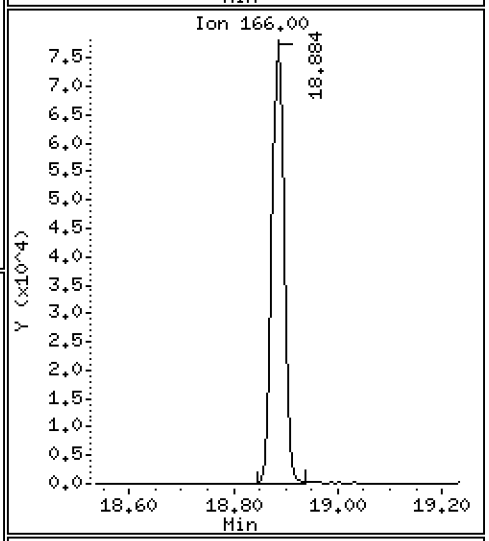


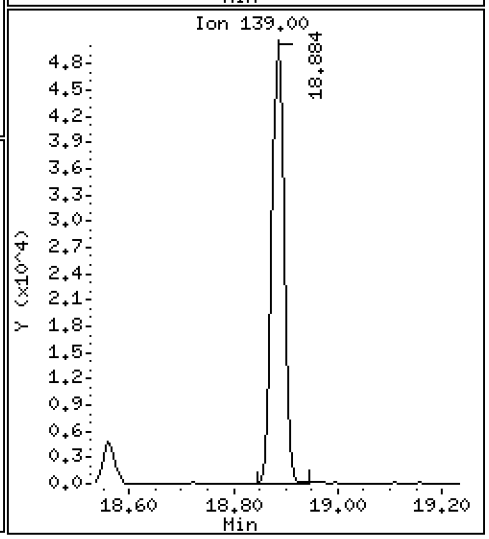












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

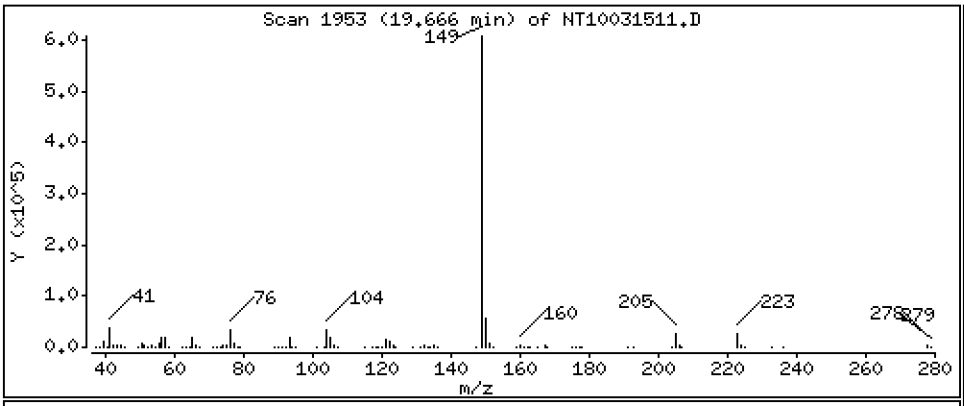
Operator: VTS

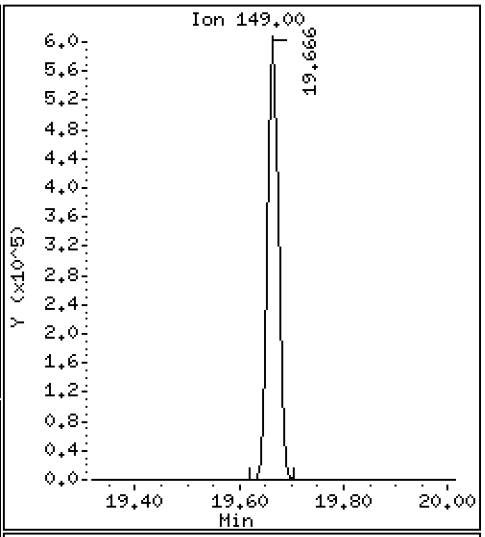
Column phase: ZB-5msi

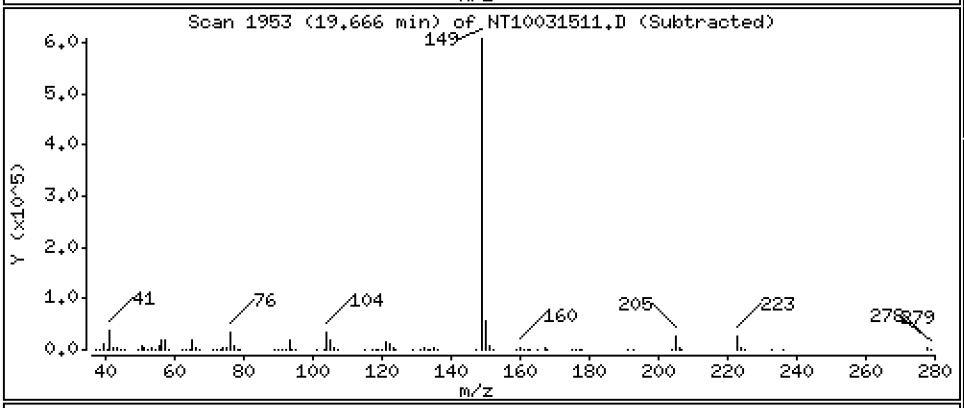
Column diameter: 0.25

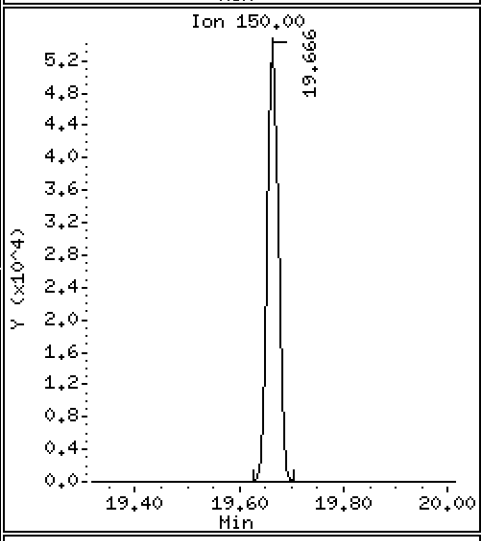
63 Di-n-butylphthalate

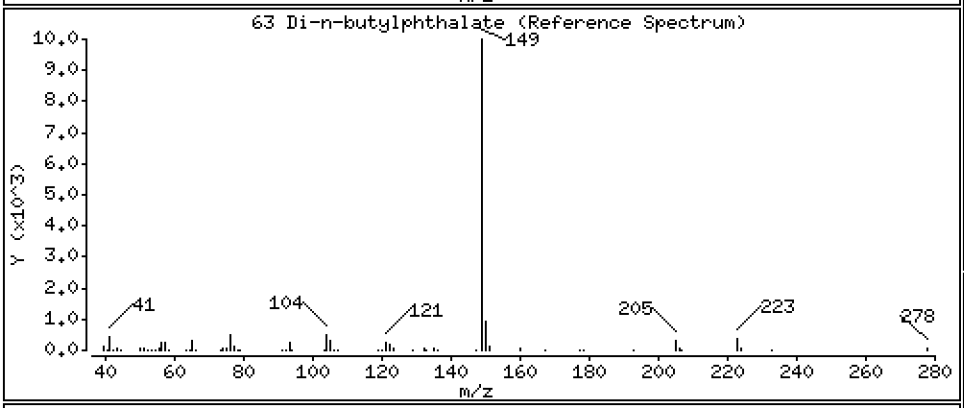
Concentration: 4.967 ug/mL

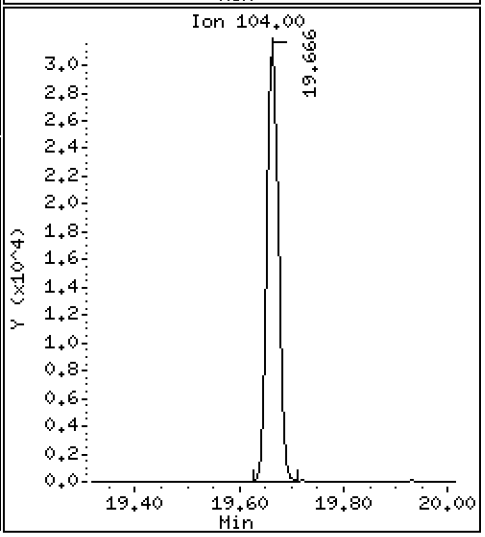


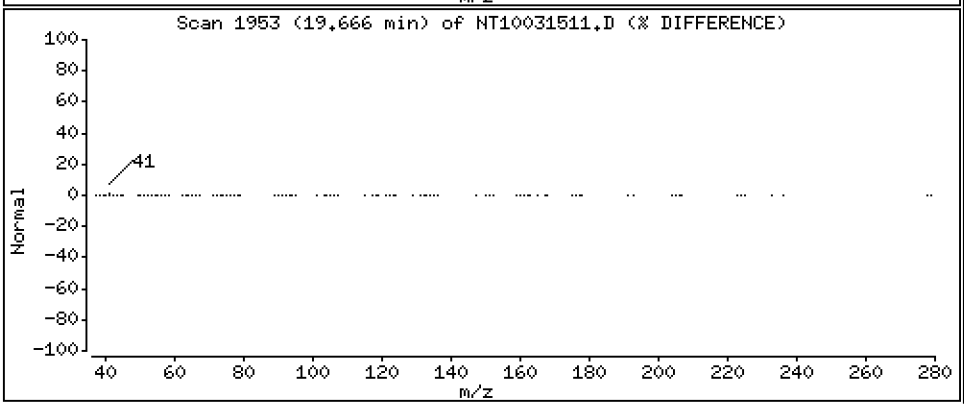












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

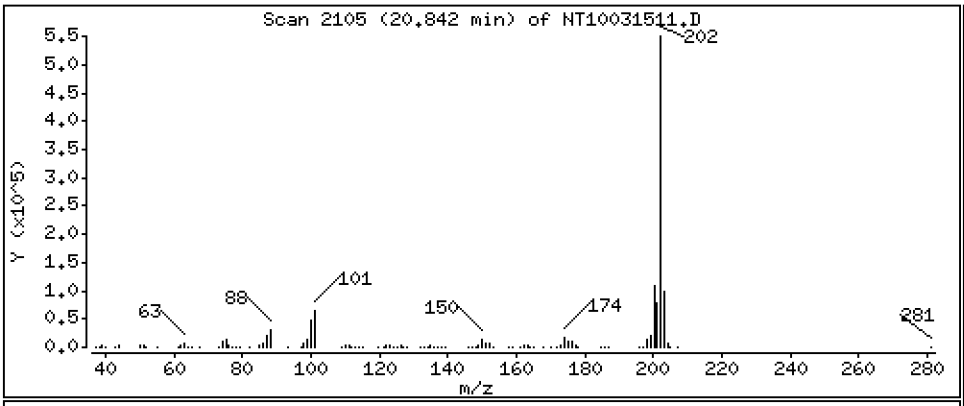
Operator: VTS

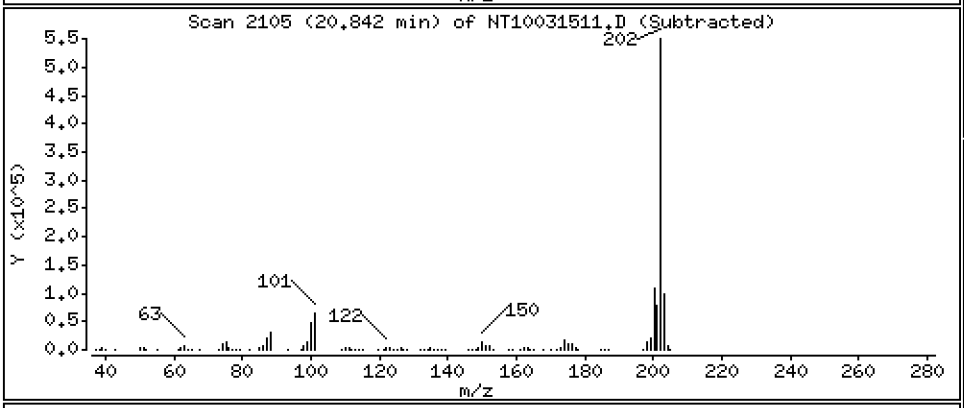
Column phase: ZB-5msi

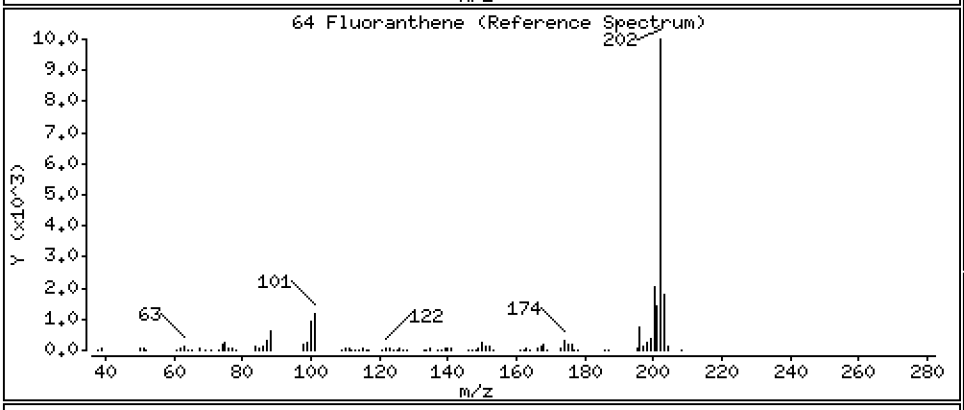
Column diameter: 0.25

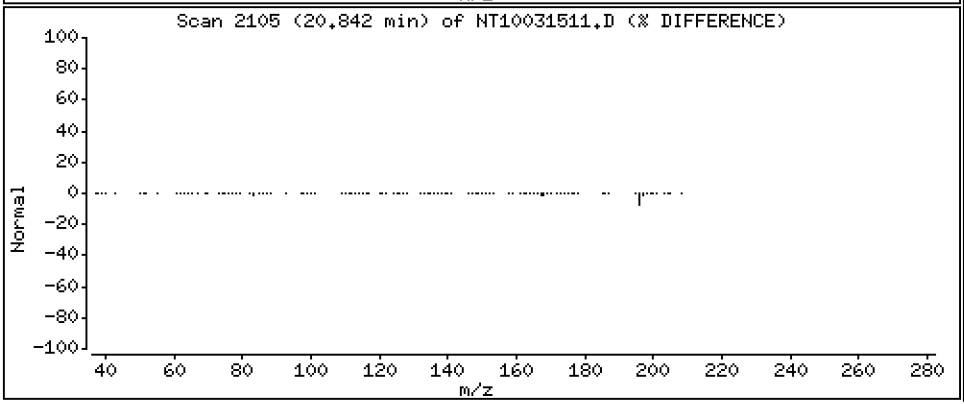
64 Fluoranthene

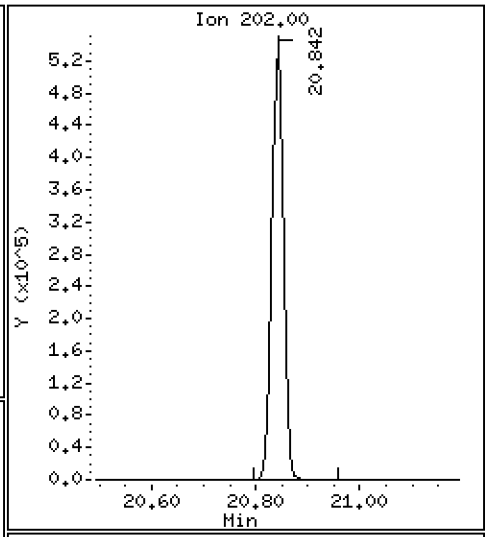
Concentration: 4.472 ug/mL

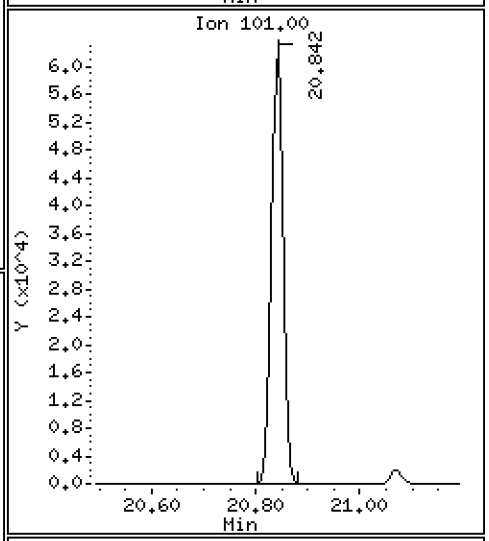


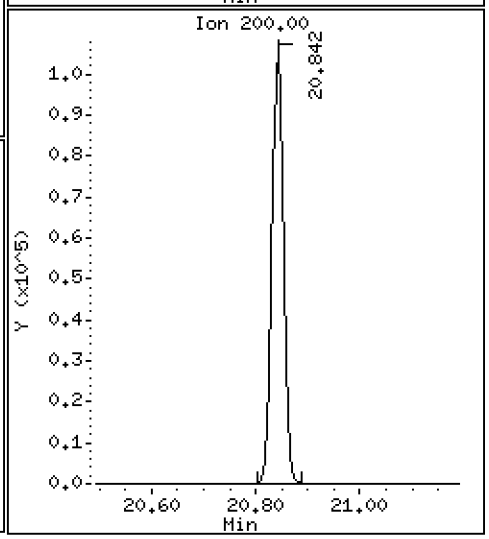












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

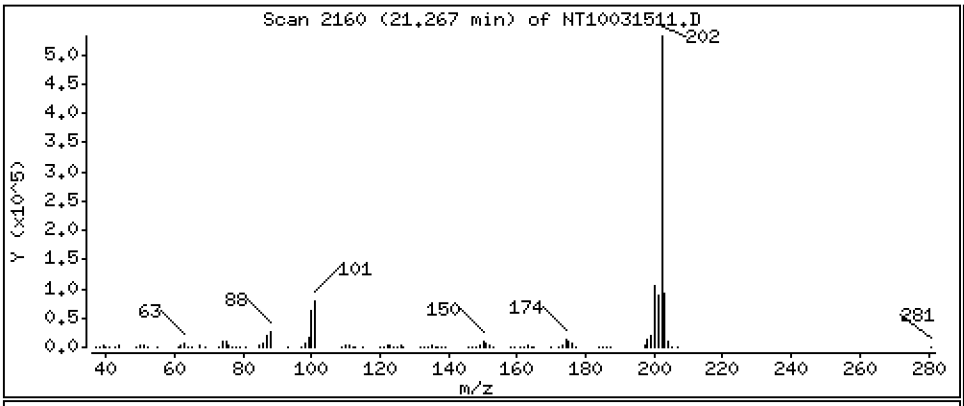
Operator: VTS

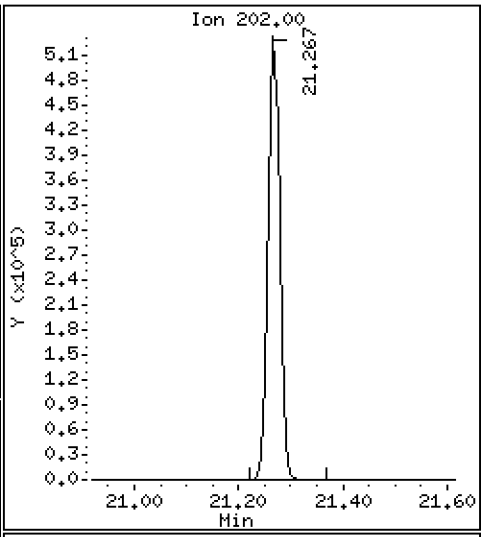
Column phase: ZB-5msi

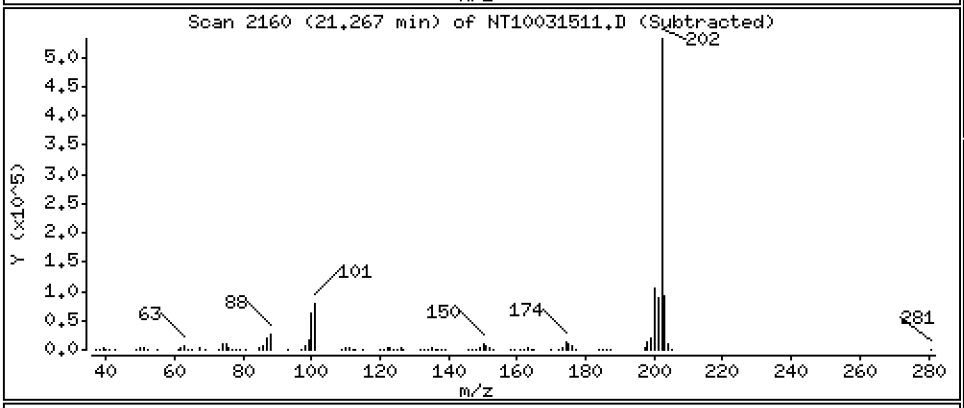
Column diameter: 0.25

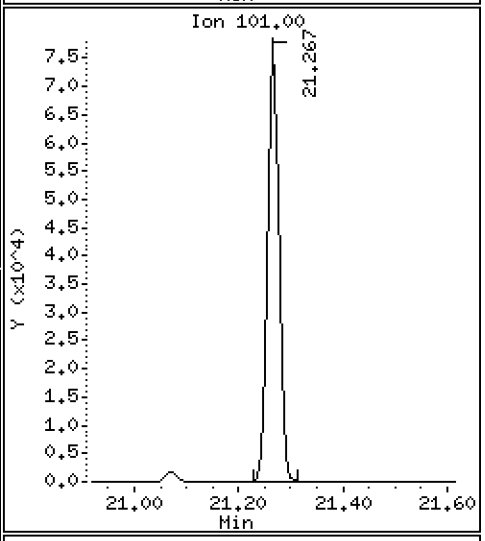
65 Pyrene

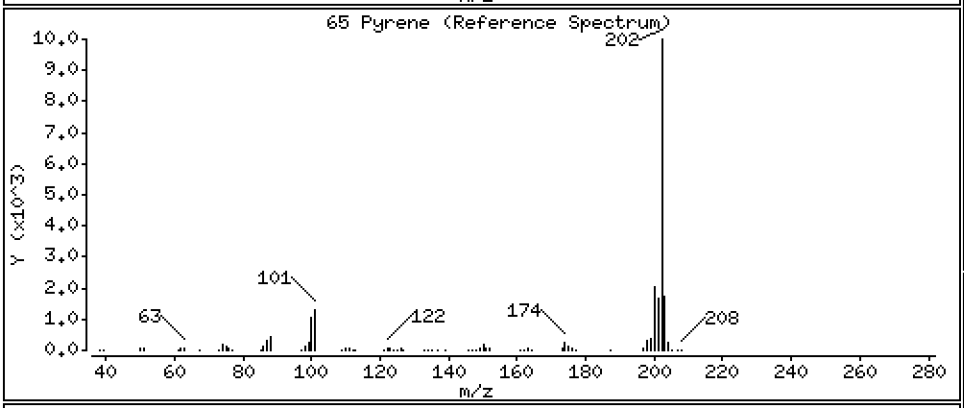
Concentration: 4.339 ug/mL

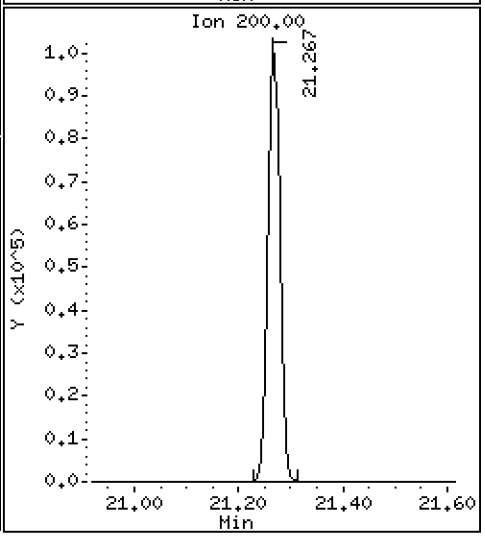


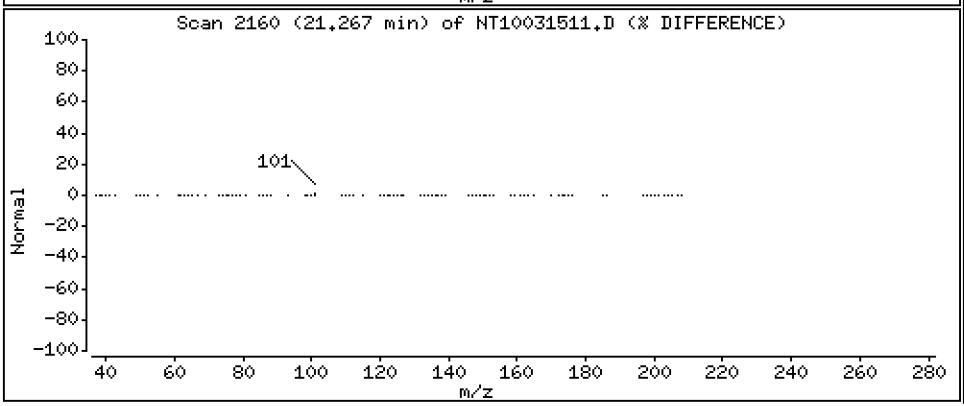












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

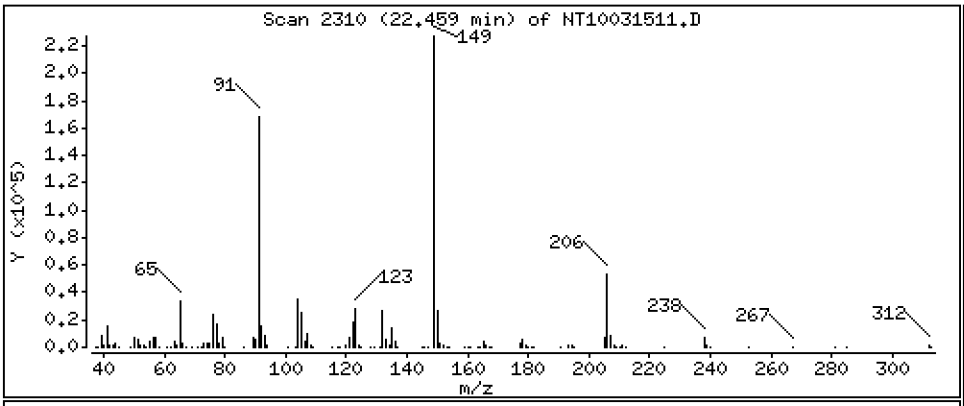
Operator: VTS

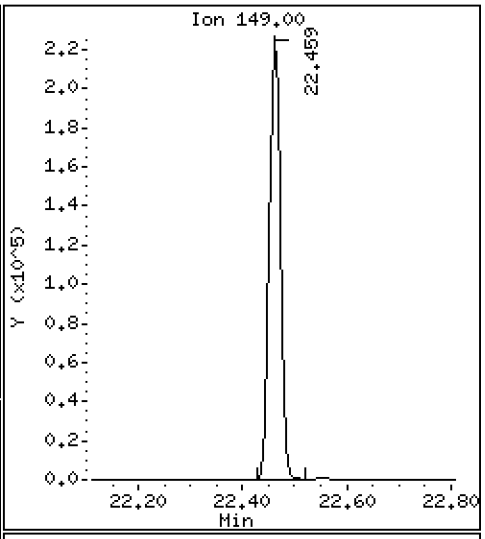
Column phase: ZB-5msi

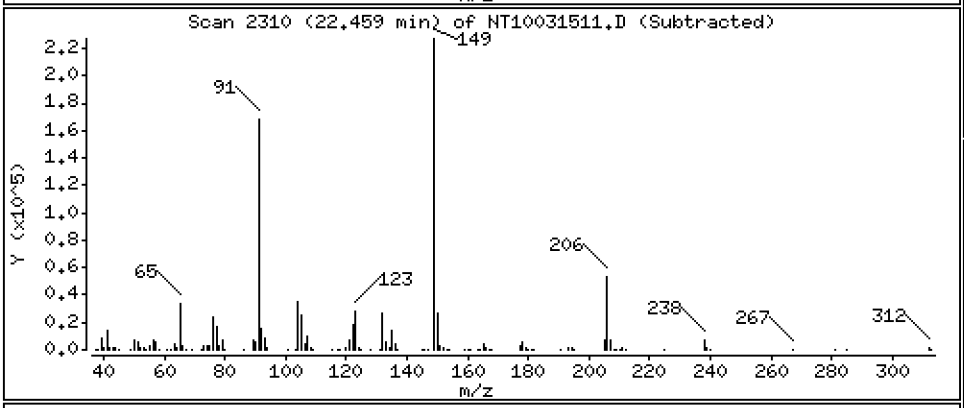
Column diameter: 0.25

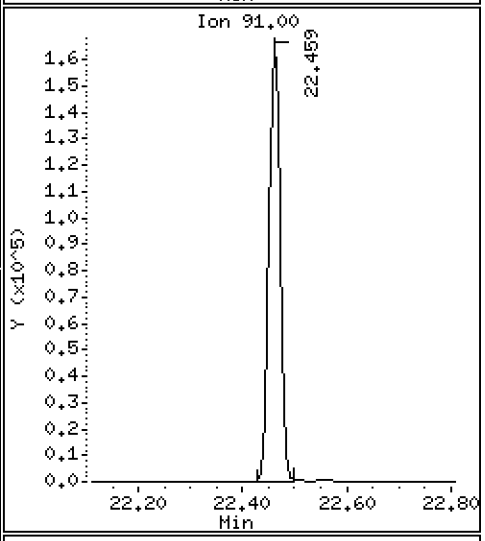
67 Butylbenzylphthalate

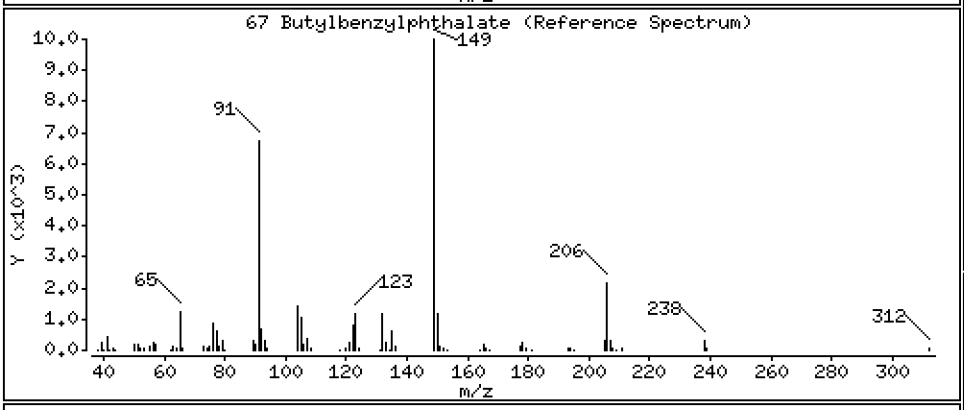
Concentration: 4.834 ug/mL

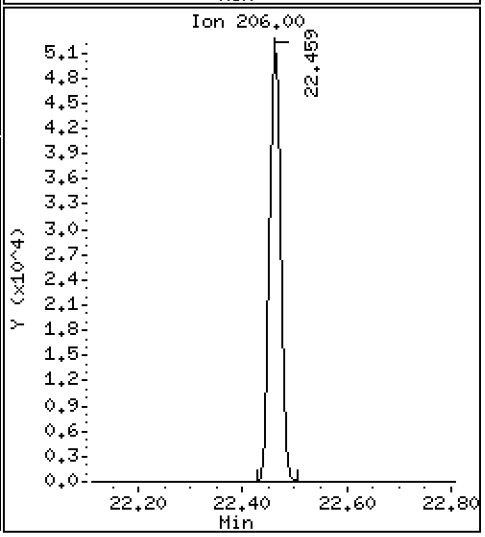


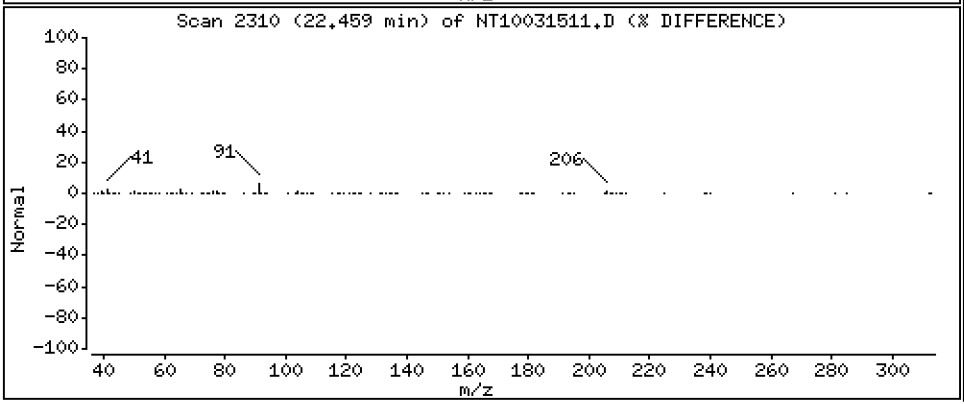












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

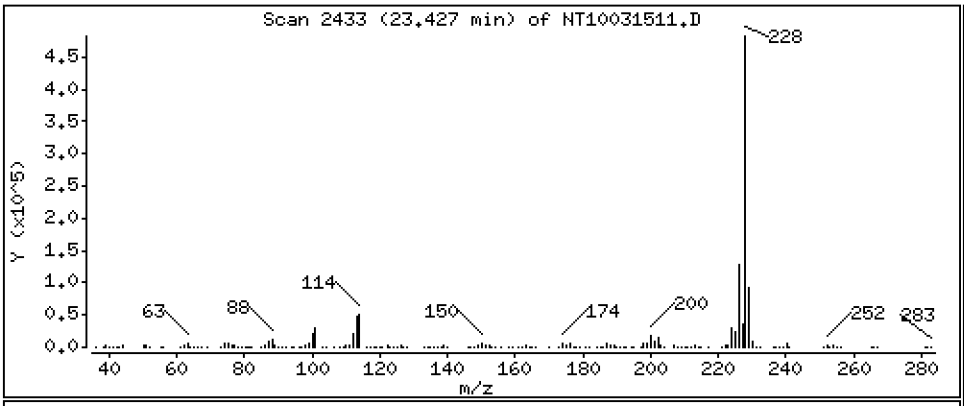
Operator: VTS

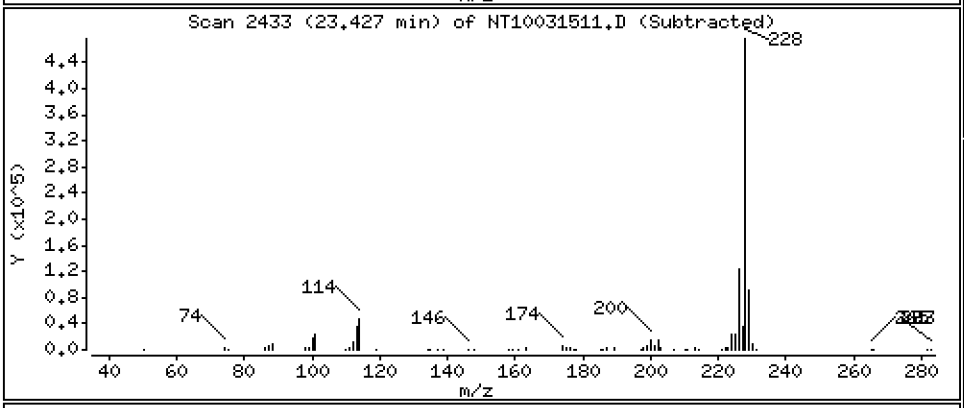
Column phase: ZB-5msi

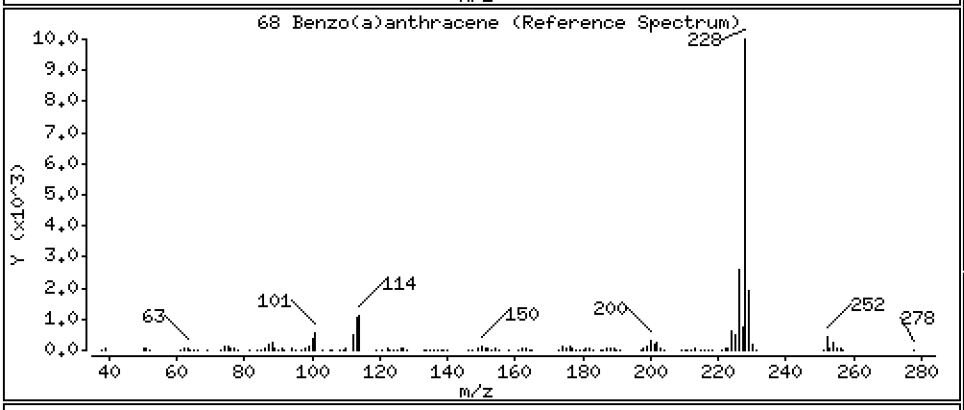
Column diameter: 0.25

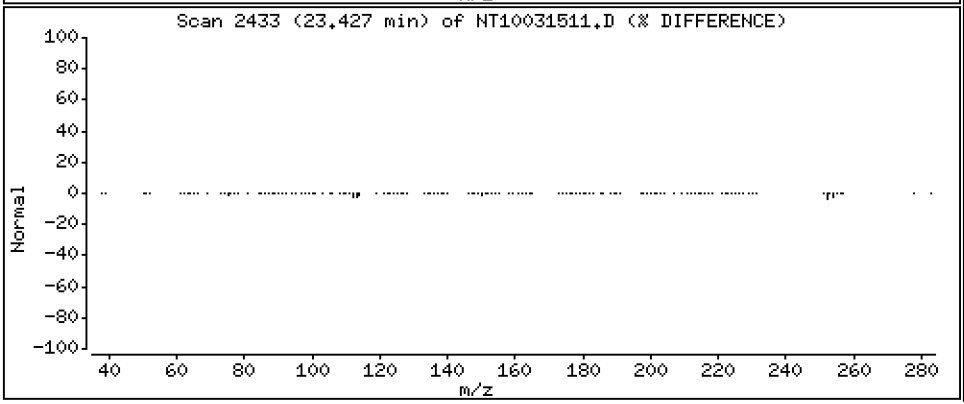
68 Benzo(a)anthracene

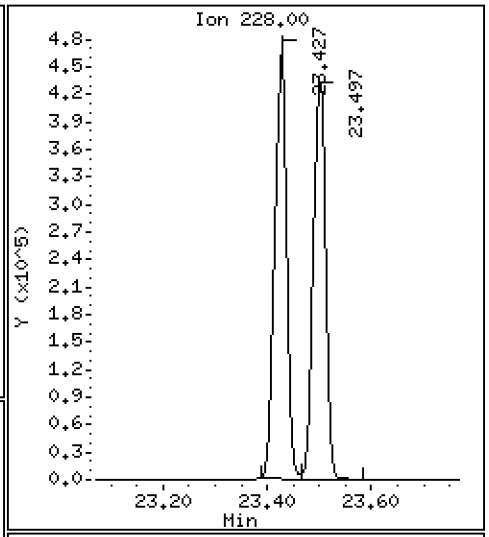
Concentration: 4.647 ug/mL

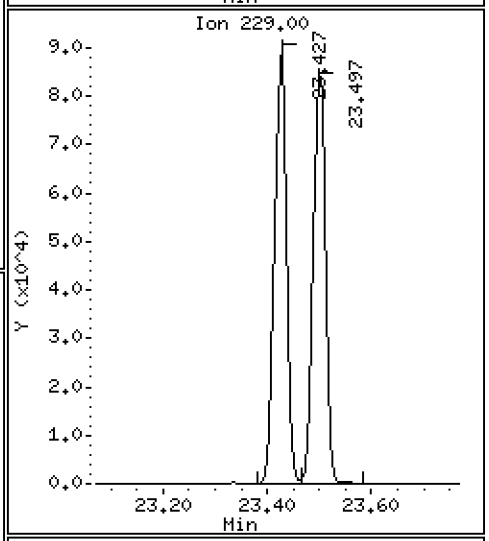


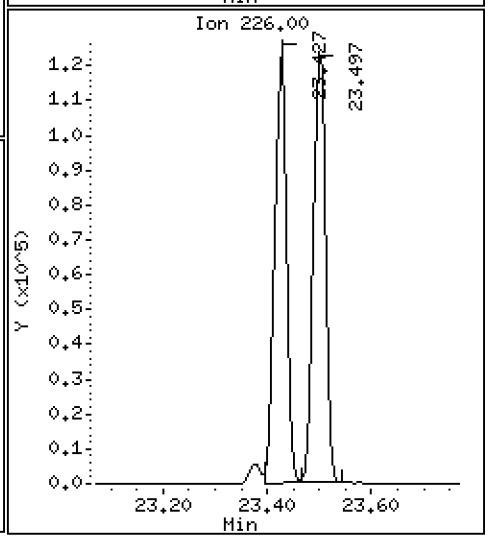












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

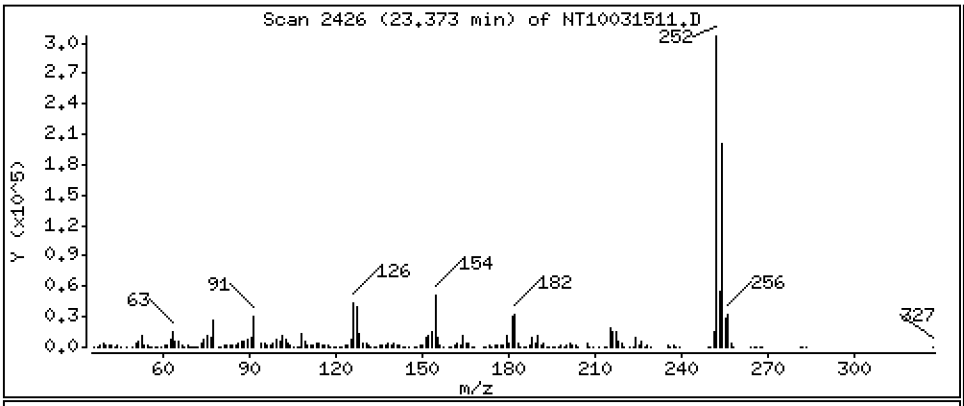
Operator: VTS

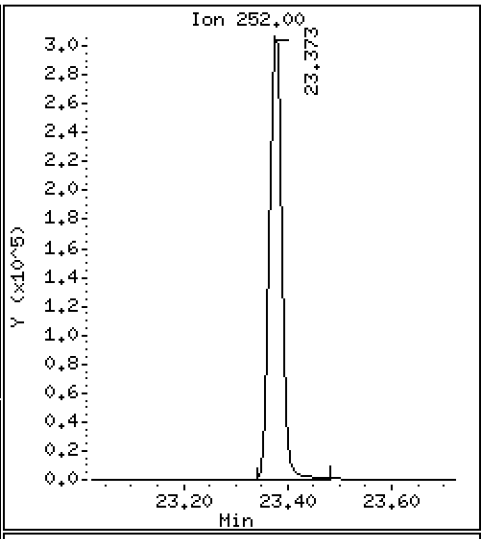
Column phase: ZB-5msi

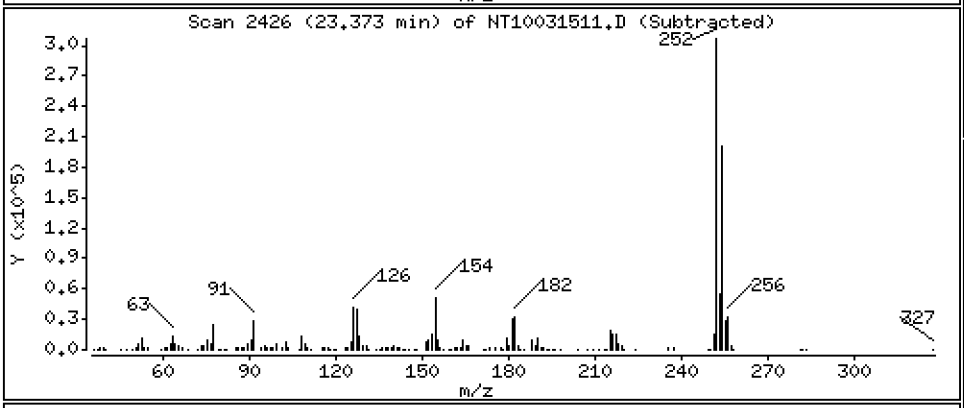
Column diameter: 0.25

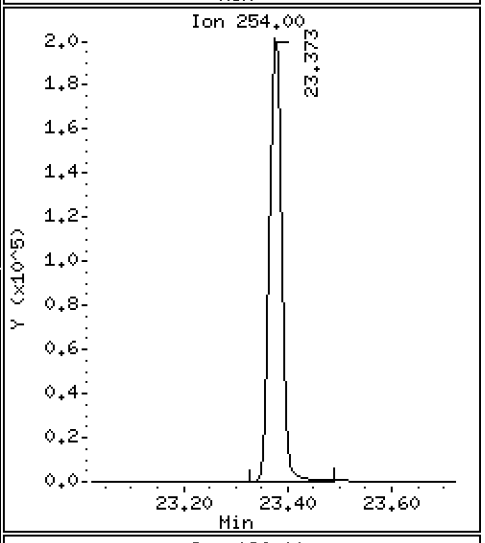
70 3,3'-Dichlorobenzidine

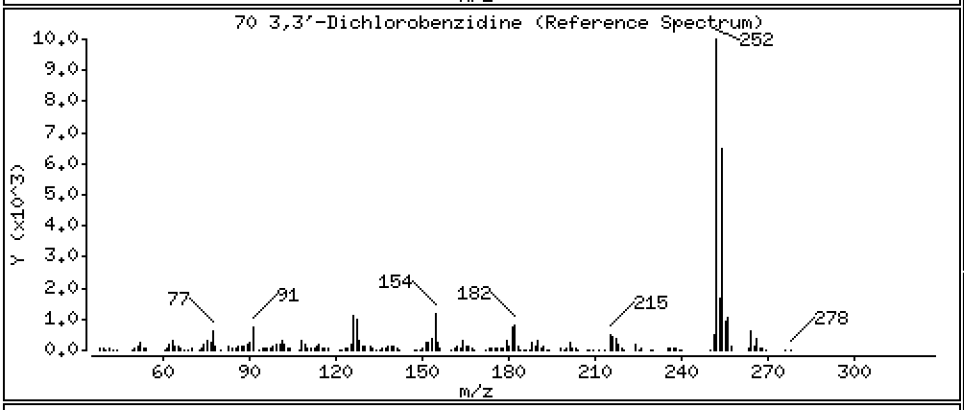
Concentration: 9.817 ug/mL

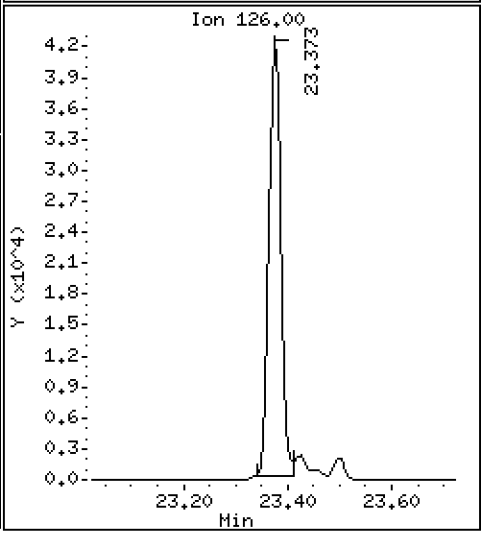


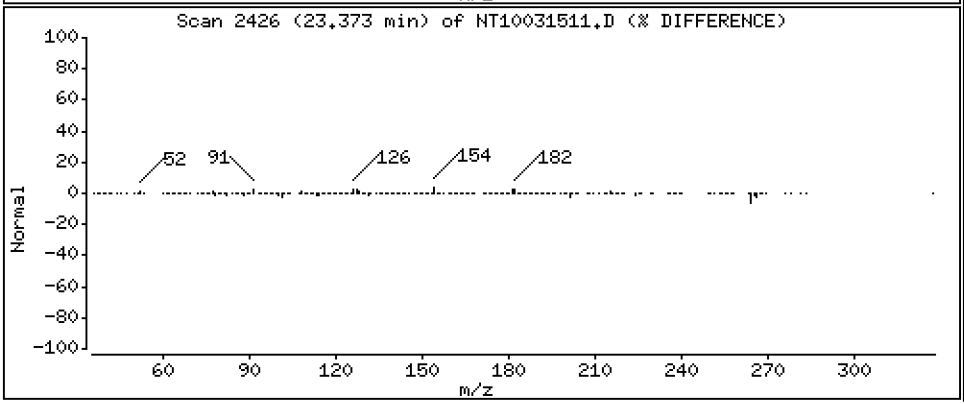












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

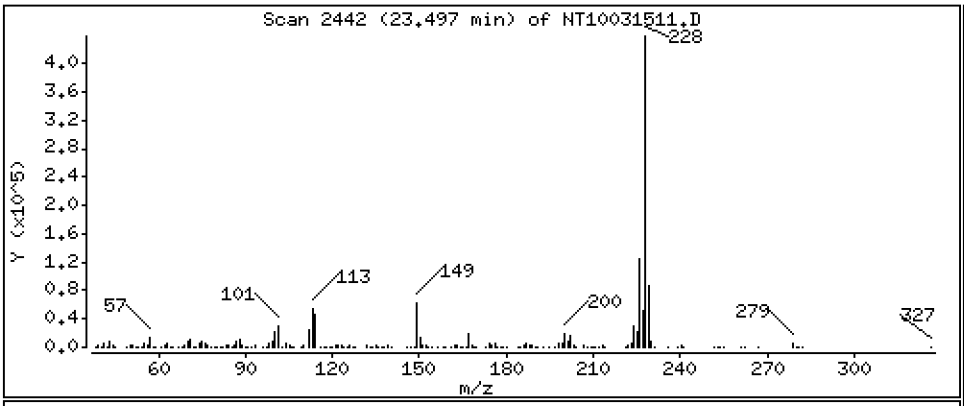
Operator: VTS

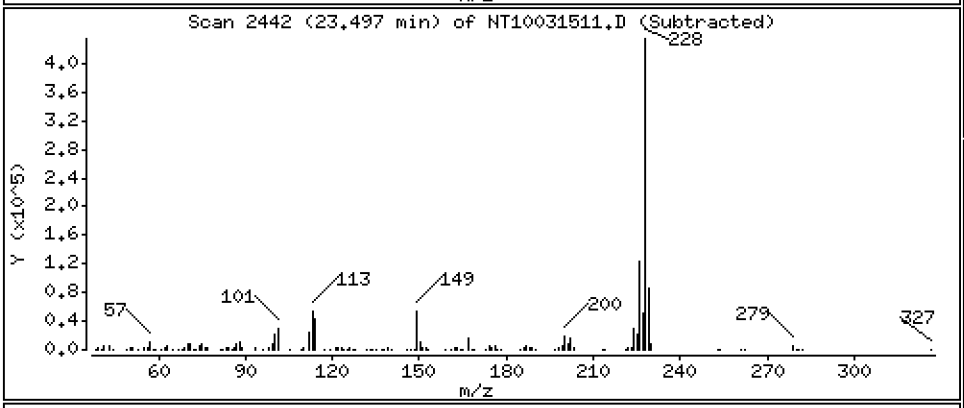
Column phase: ZB-5msi

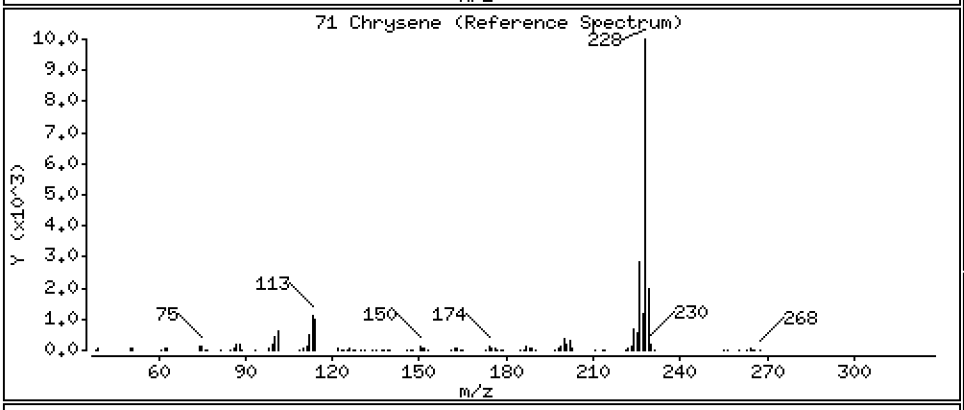
Column diameter: 0.25

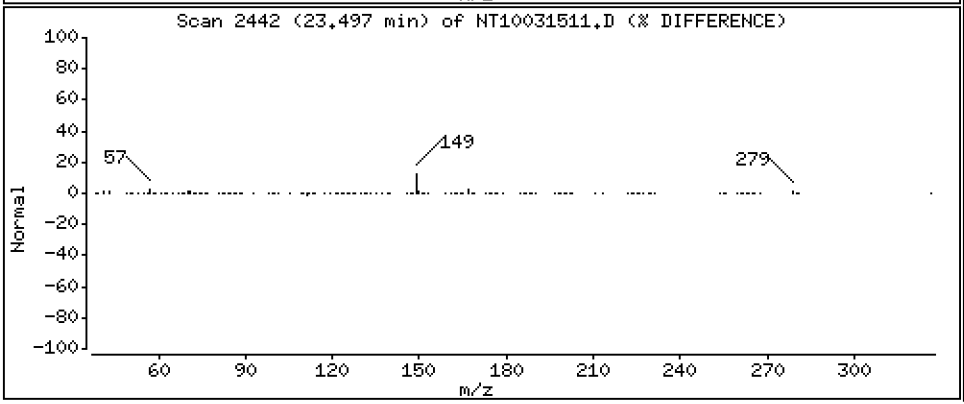
71 Chrysene

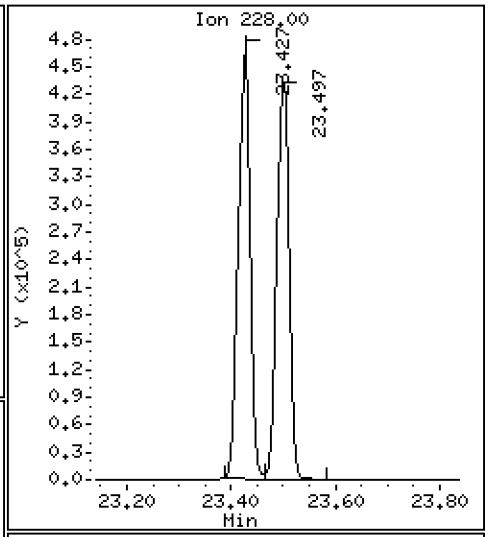
Concentration: 4.510 ug/mL

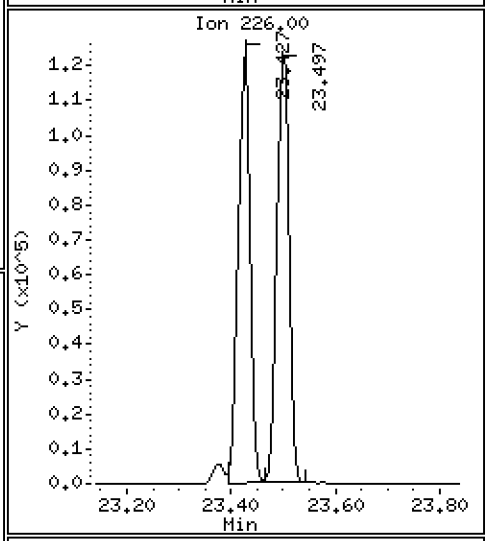


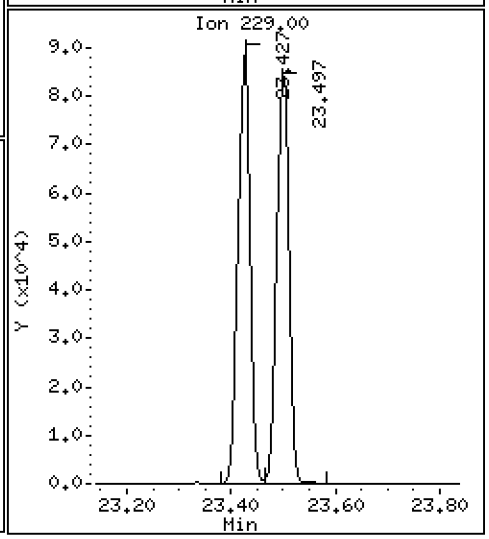












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

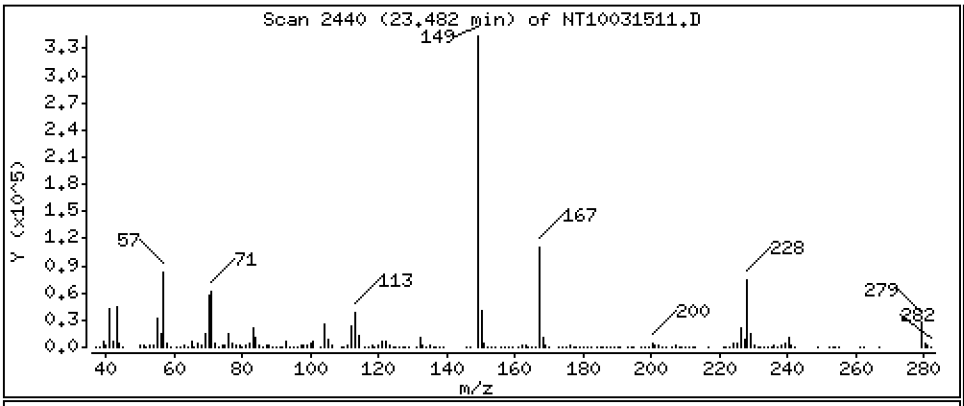
Operator: VTS

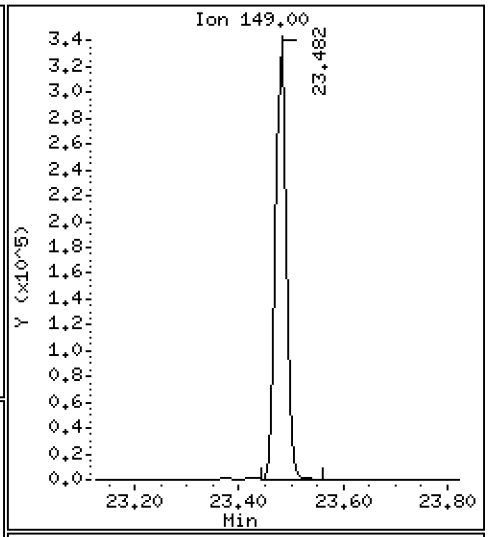
Column phase: ZB-5msi

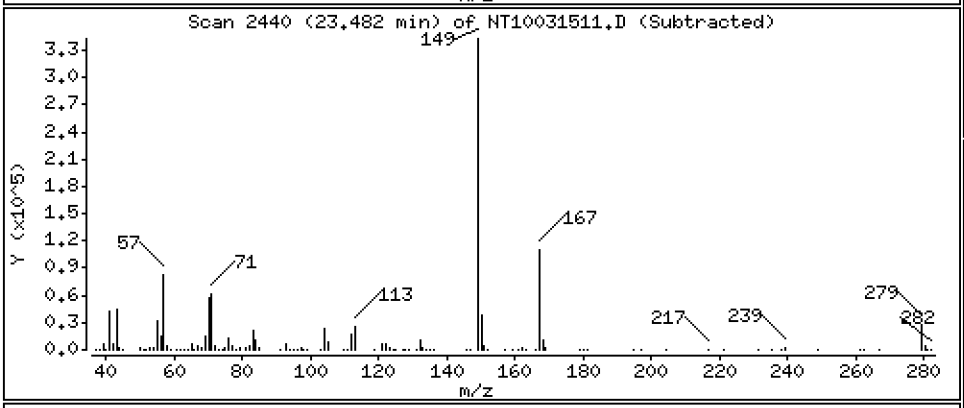
Column diameter: 0.25

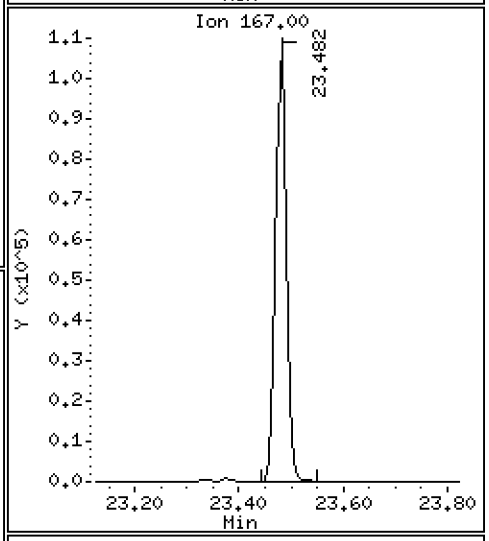
72 bis(2-Ethylhexyl)phthalate

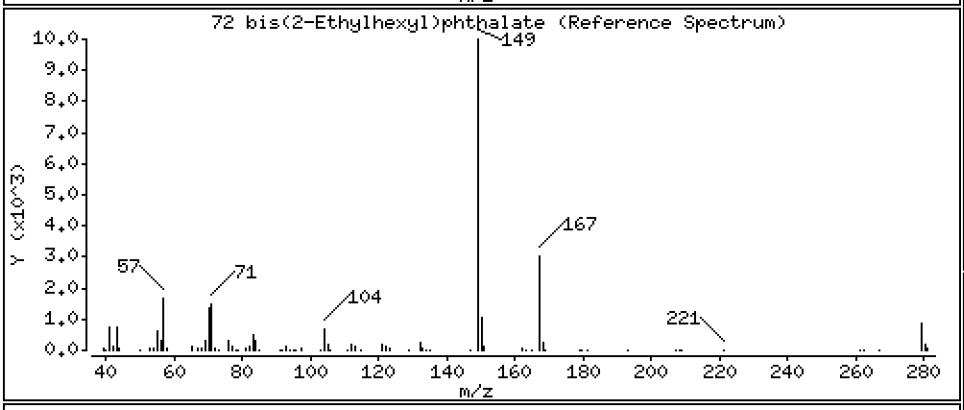
Concentration: 4.680 ug/mL

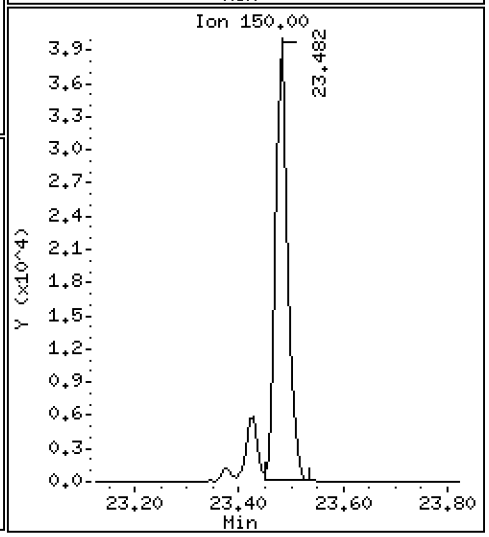


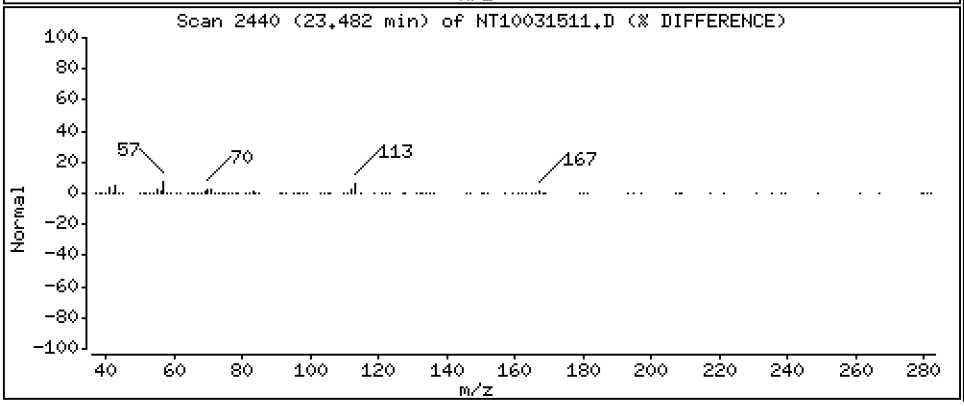












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

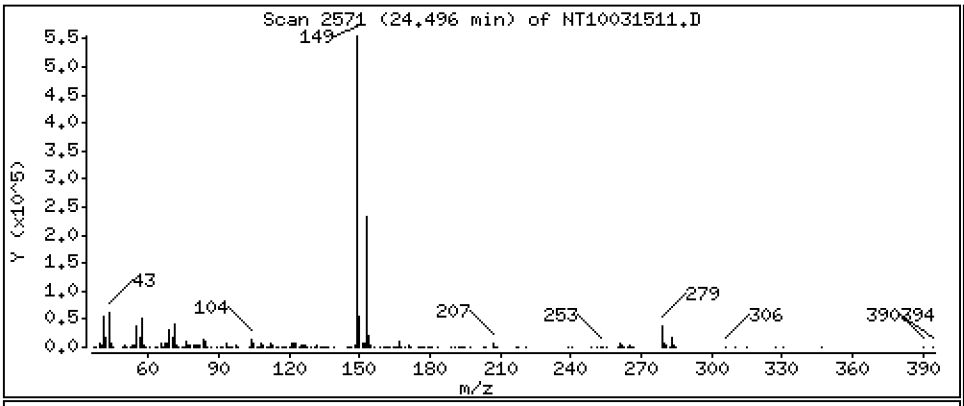
Operator: VTS

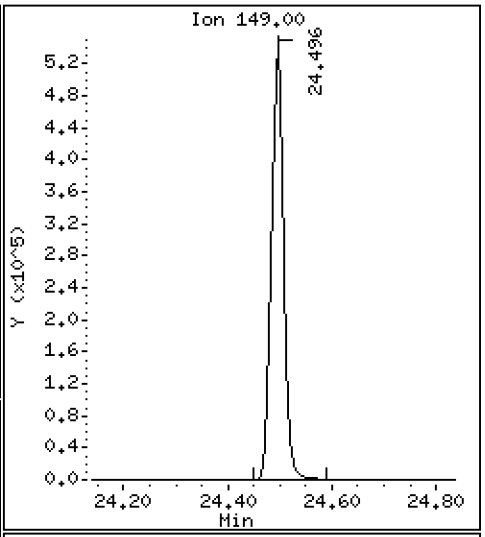
Column phase: ZB-5msi

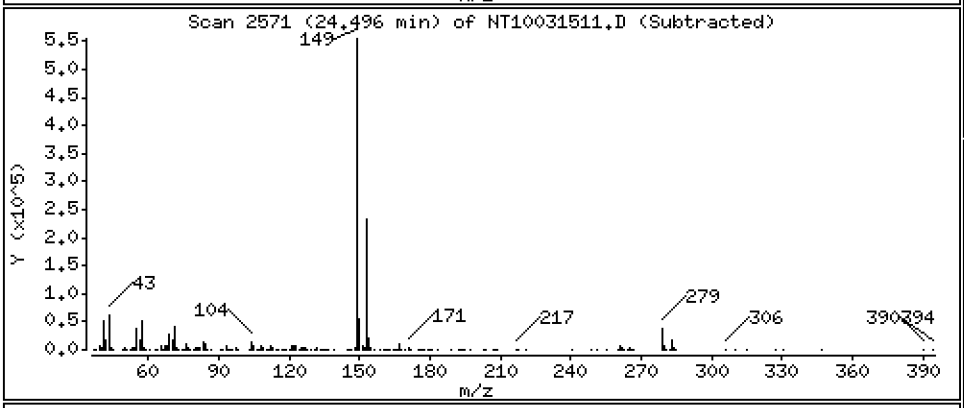
Column diameter: 0.25

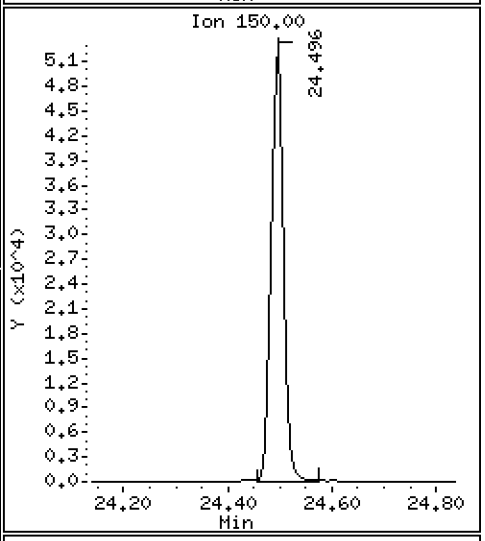
73 Di-n-octylphthalate

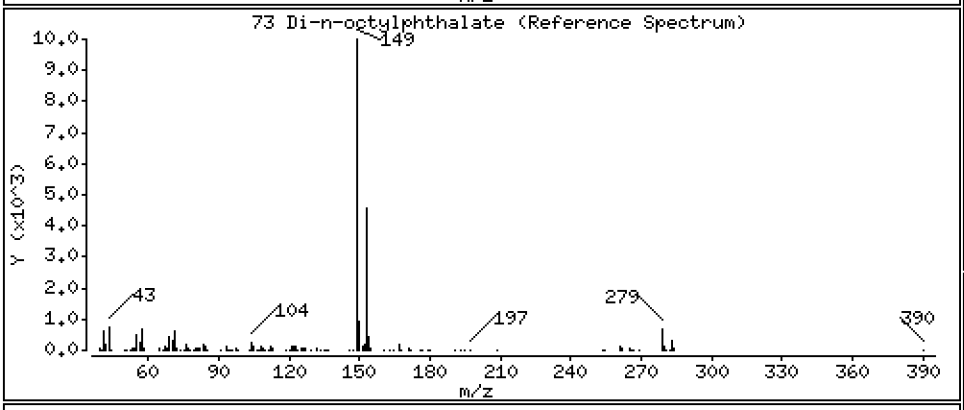
Concentration: 4.947 ug/mL

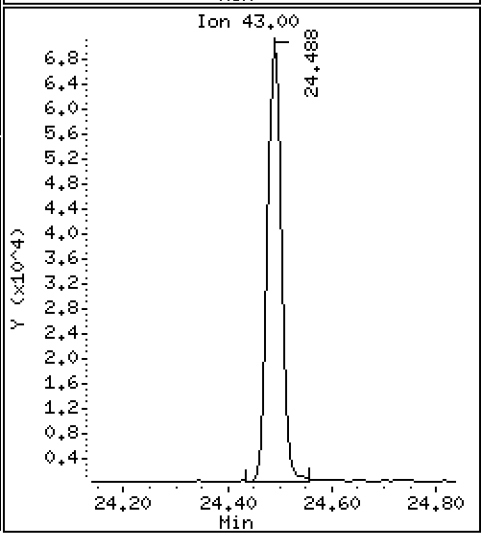


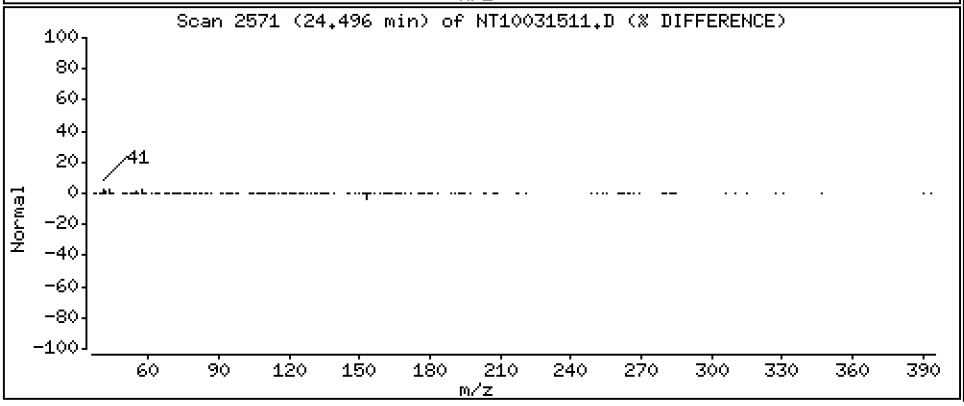












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

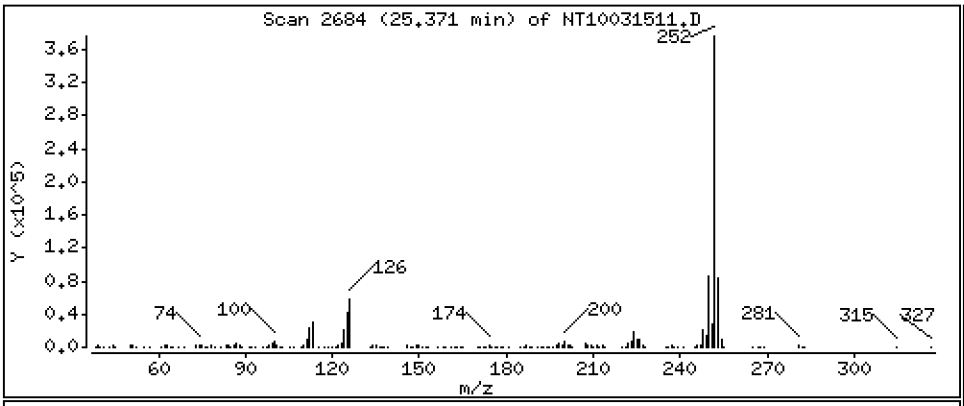
Operator: VTS

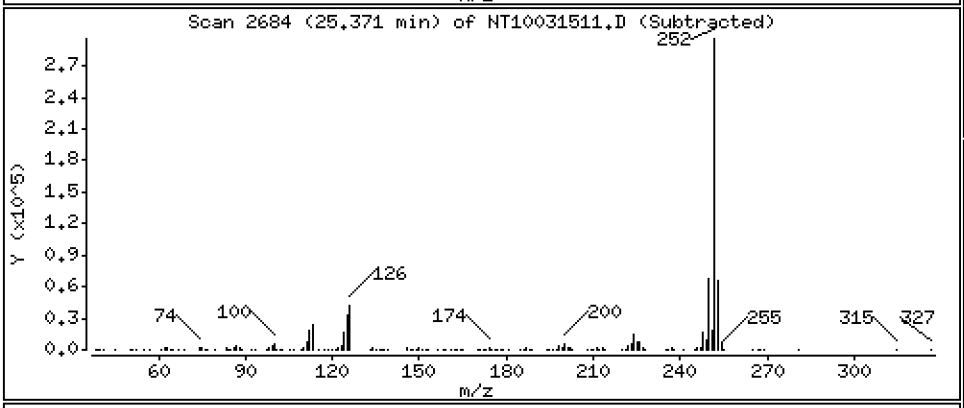
Column phase: ZB-5msi

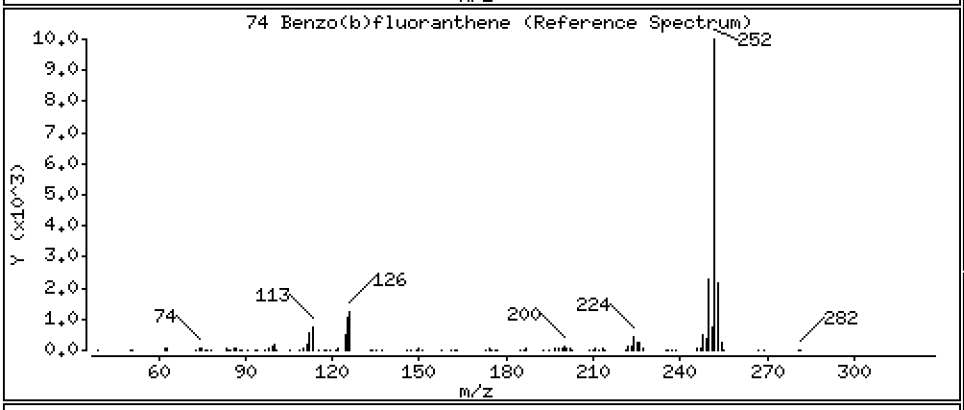
Column diameter: 0.25

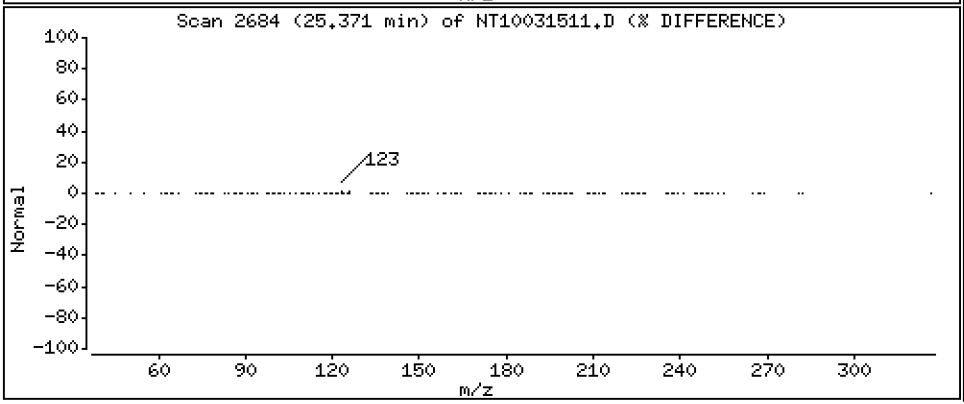
74 Benzo(b)fluoranthene

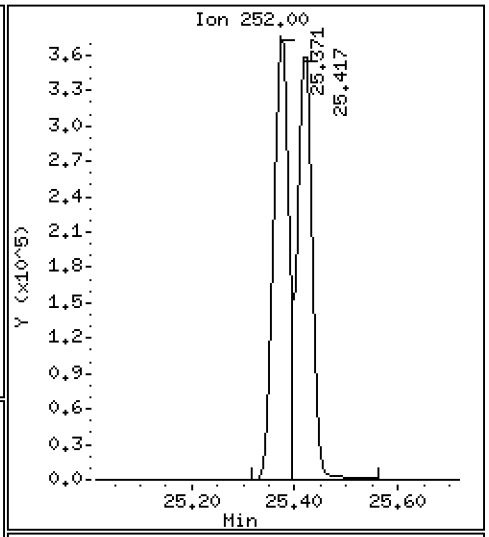
Concentration: 4.602 ug/mL

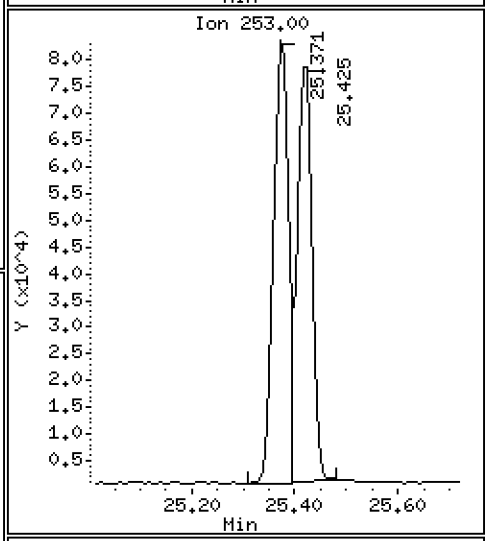


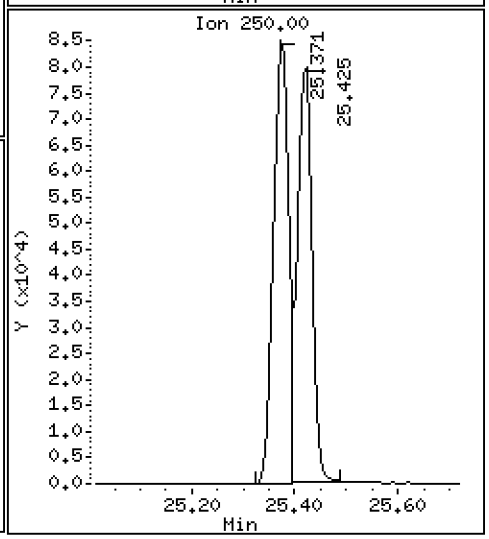












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

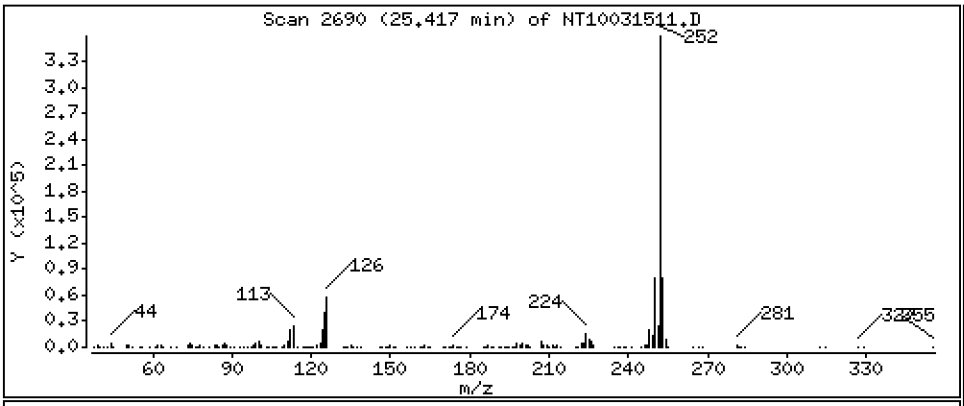
Operator: VTS

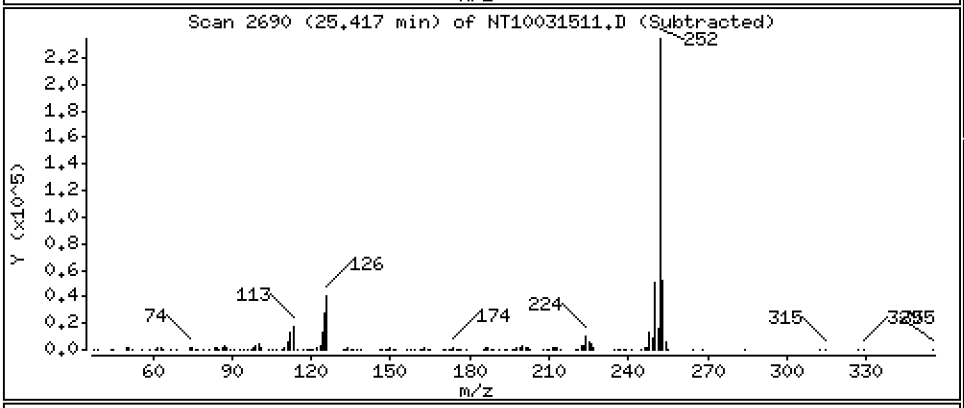
Column phase: ZB-5msi

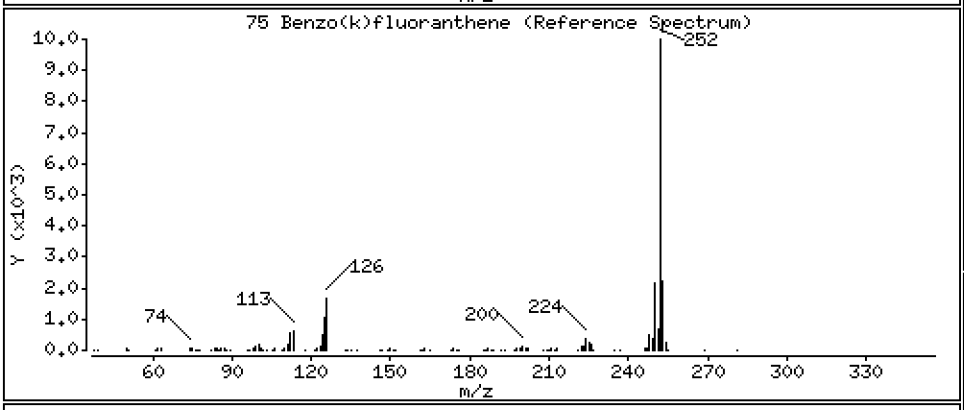
Column diameter: 0.25

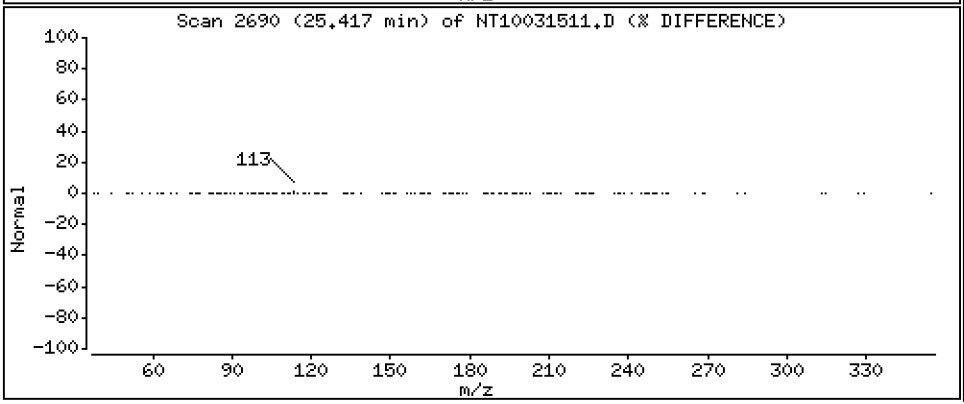
75 Benzo(k)fluoranthene

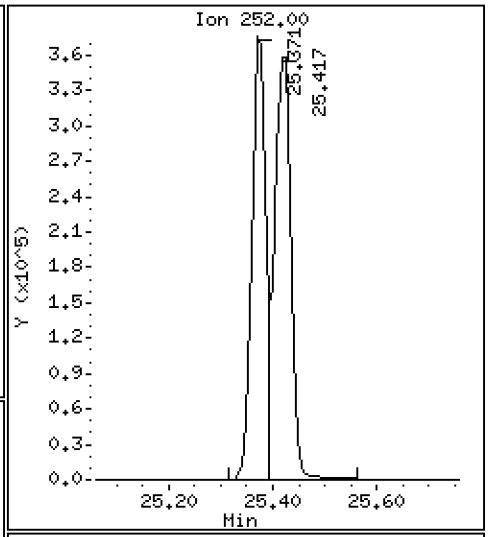
Concentration: 4.898 ug/mL

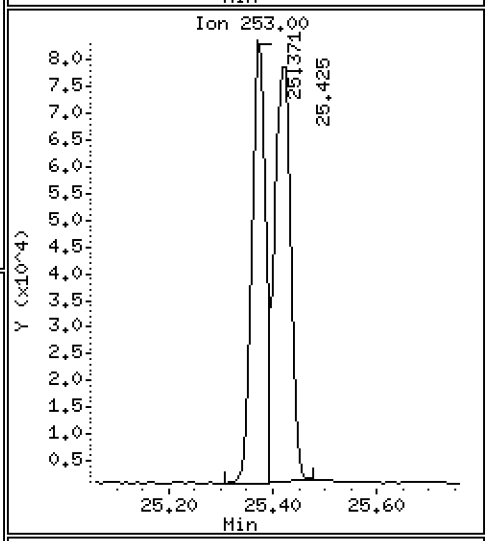


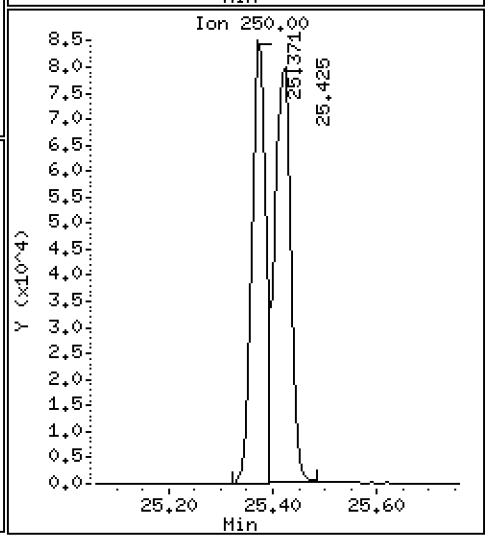












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

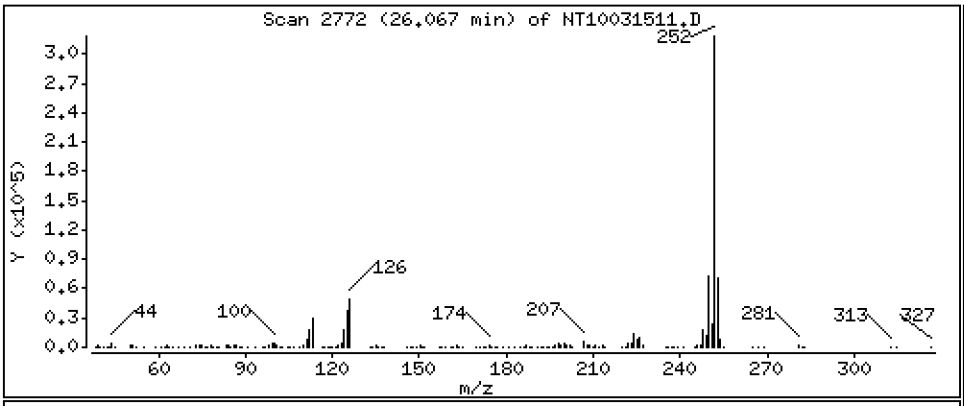
Operator: VTS

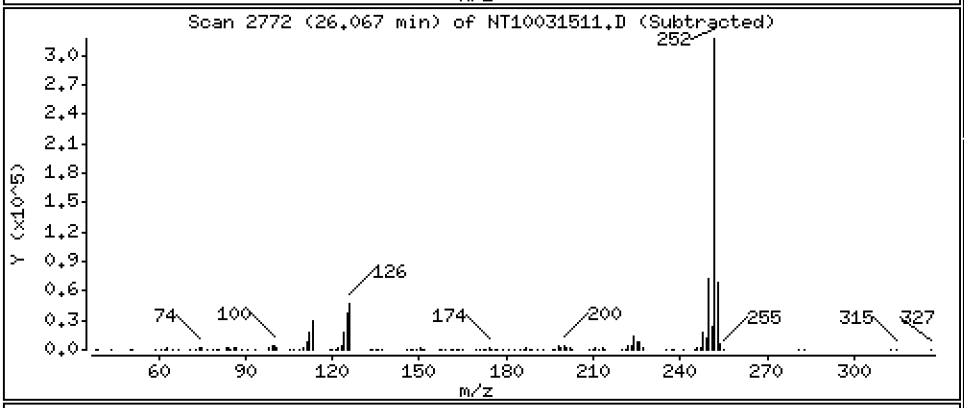
Column phase: ZB-5msi

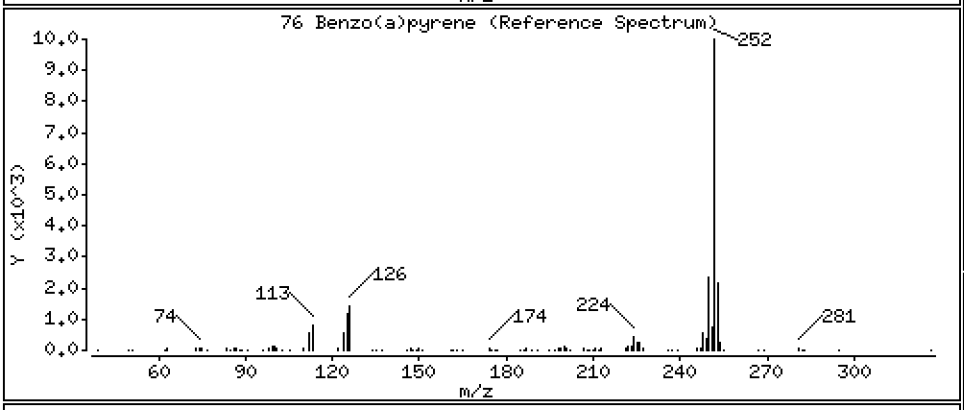
Column diameter: 0.25

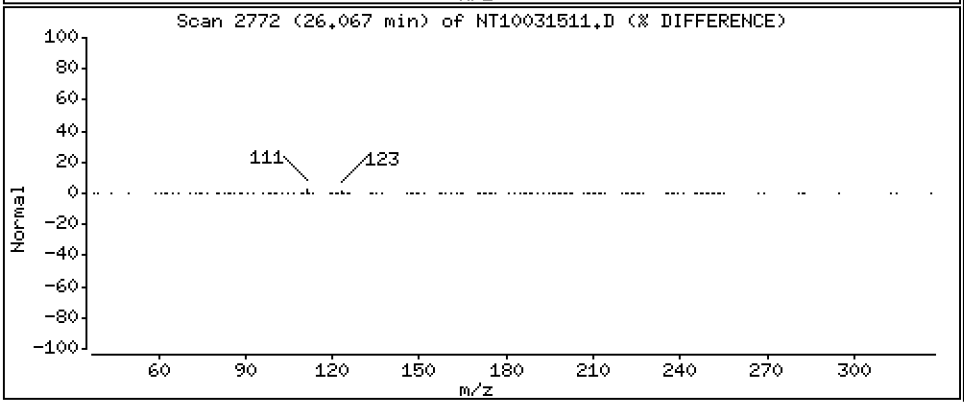
76 Benzo(a)pyrene

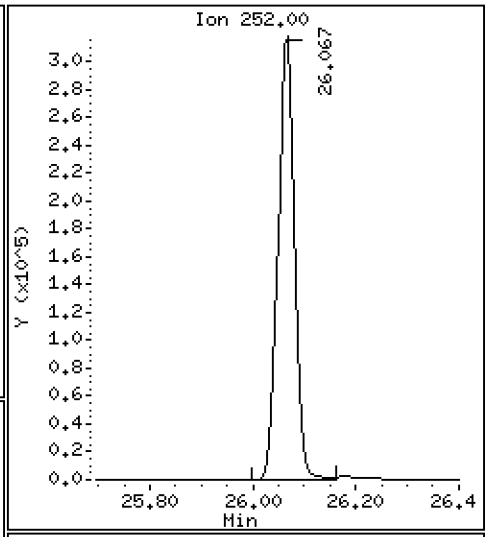
Concentration: 4.873 ug/mL

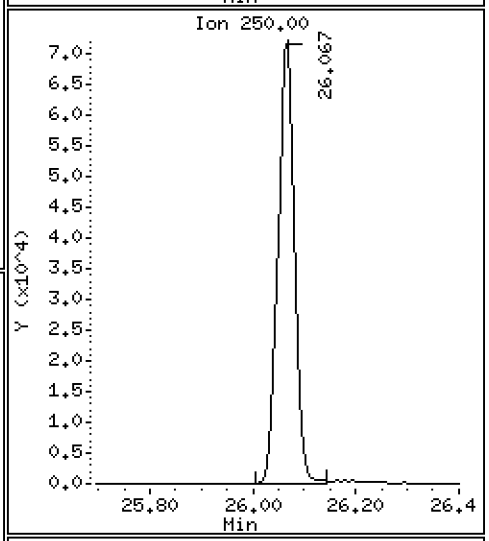


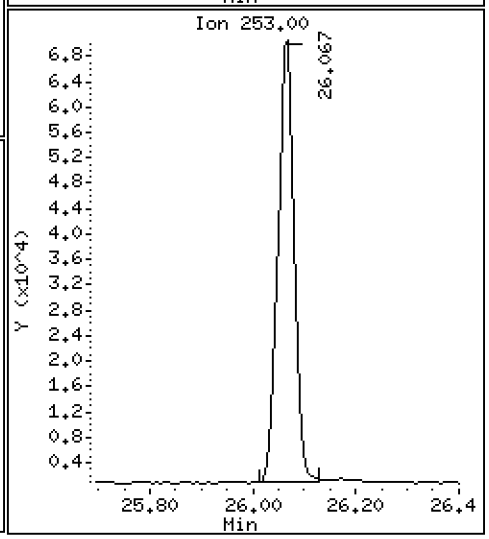












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

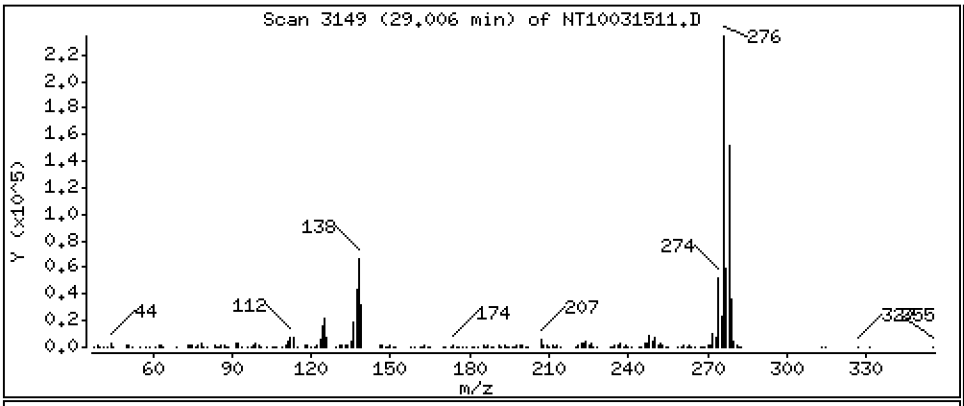
Operator: VTS

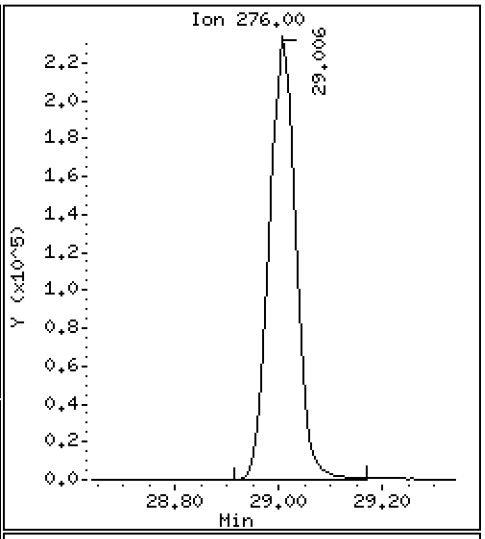
Column phase: ZB-5msi

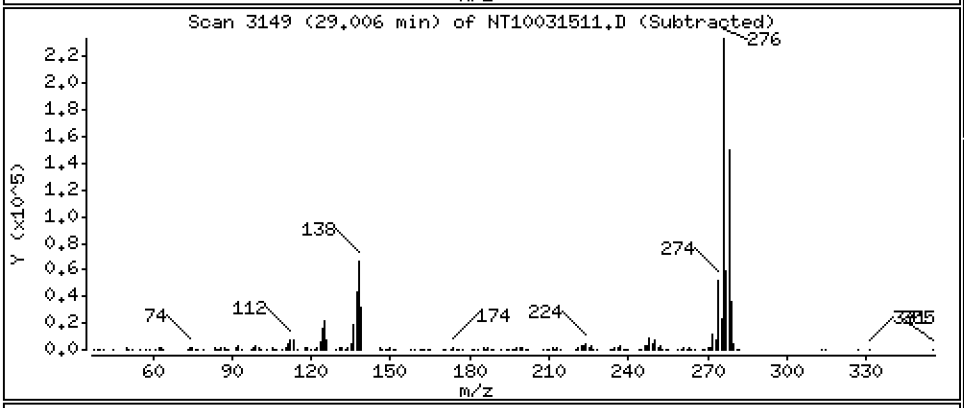
Column diameter: 0.25

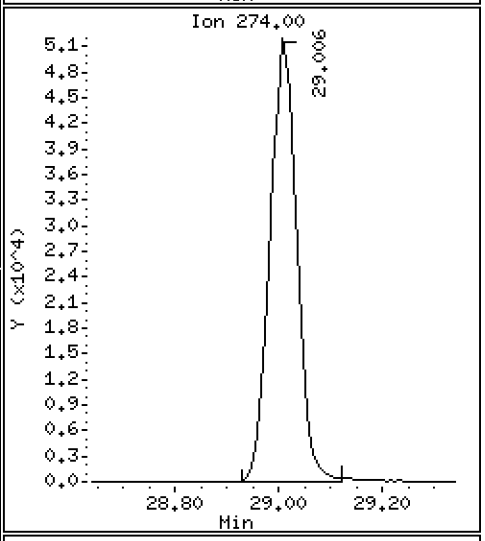
78 Indeno(1,2,3-cd)pyrene

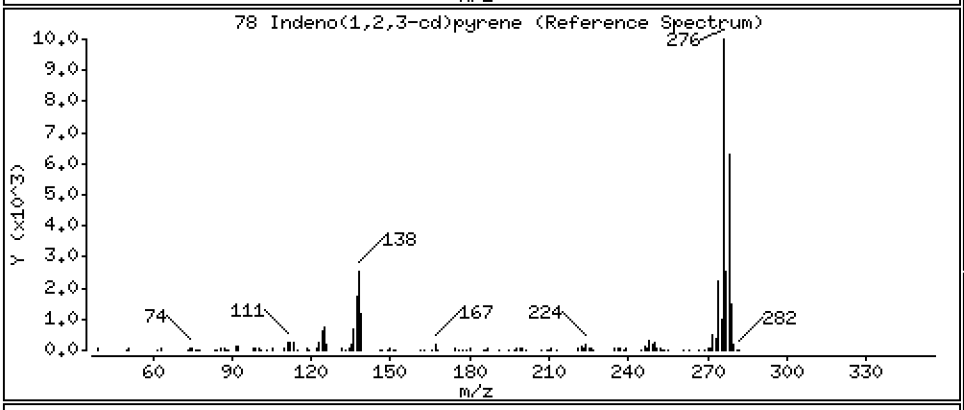
Concentration: 4.577 ug/mL

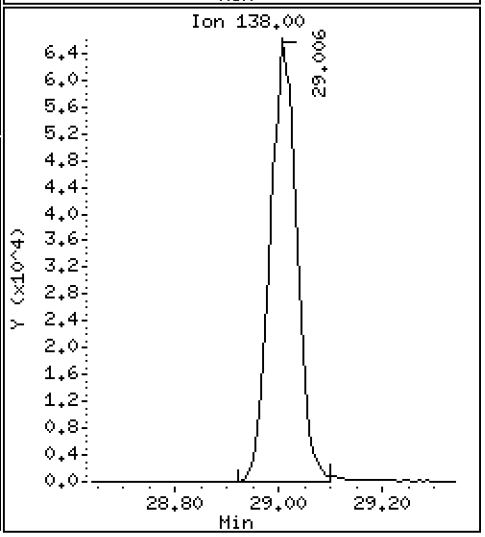


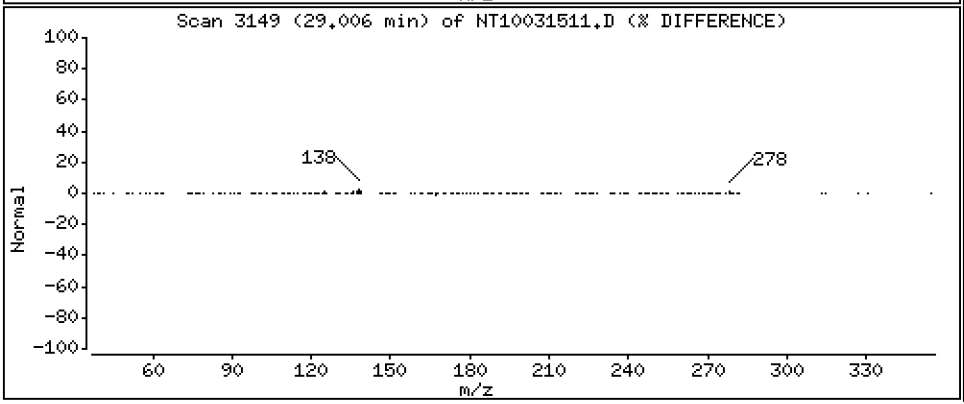












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

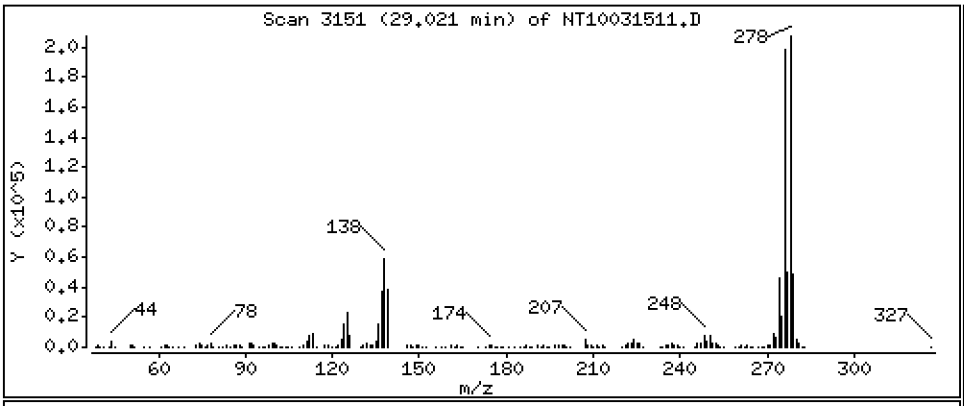
Operator: VTS

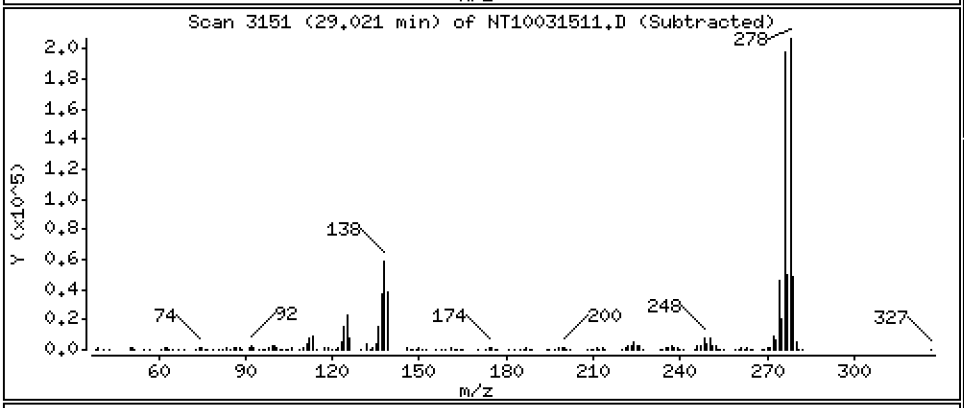
Column phase: ZB-5msi

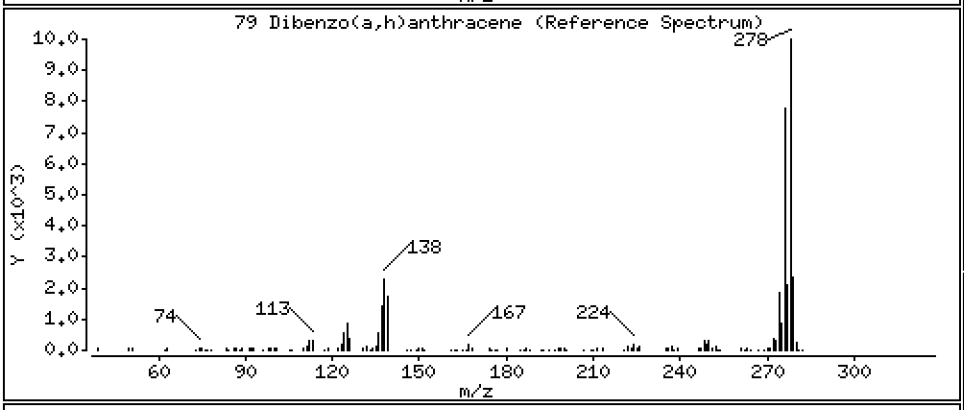
Column diameter: 0.25

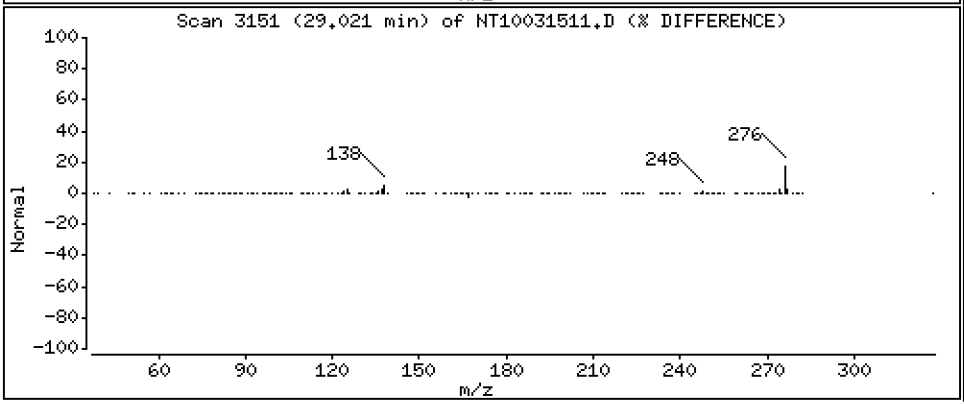
79 Dibenzo(a,h)anthracene

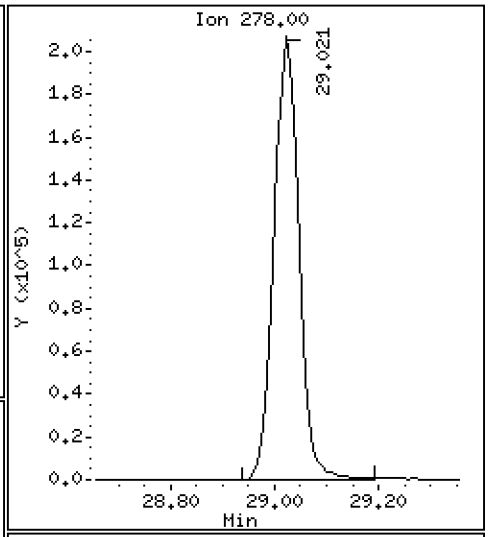
Concentration: 4.547 ug/mL

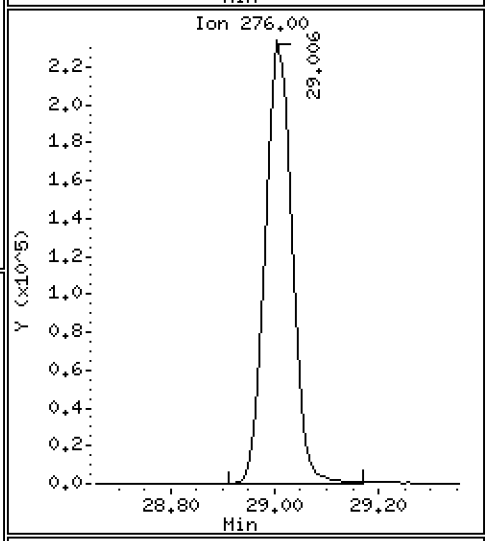


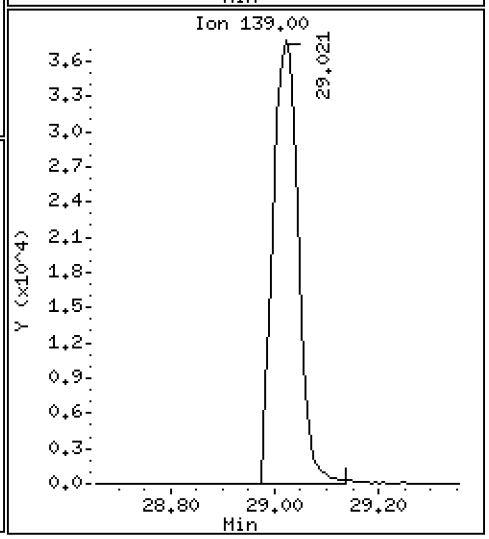












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

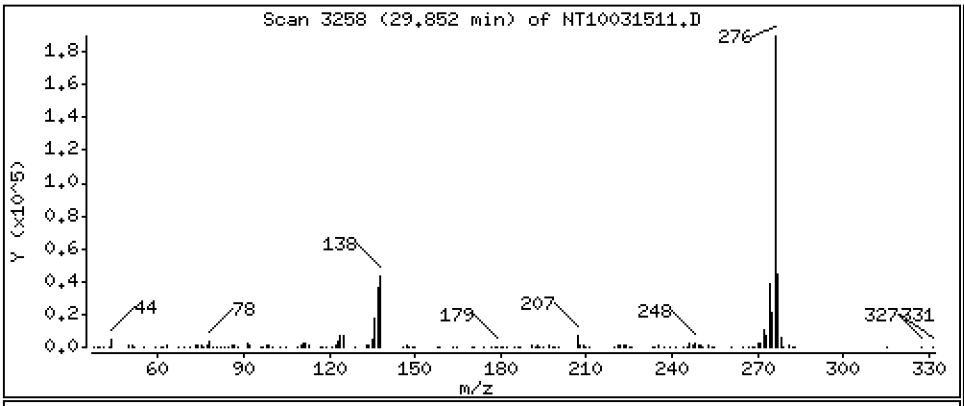
Operator: VTS

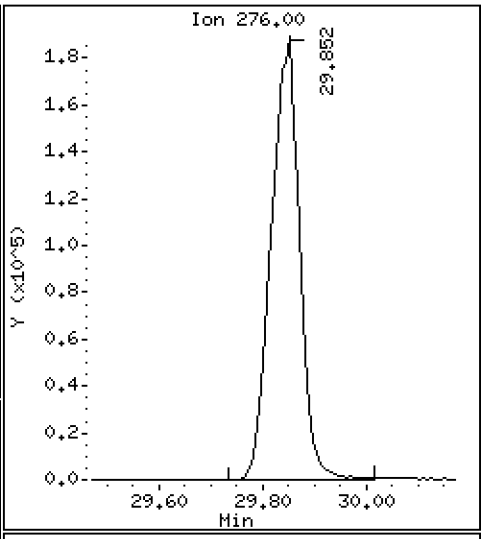
Column phase: ZB-5msi

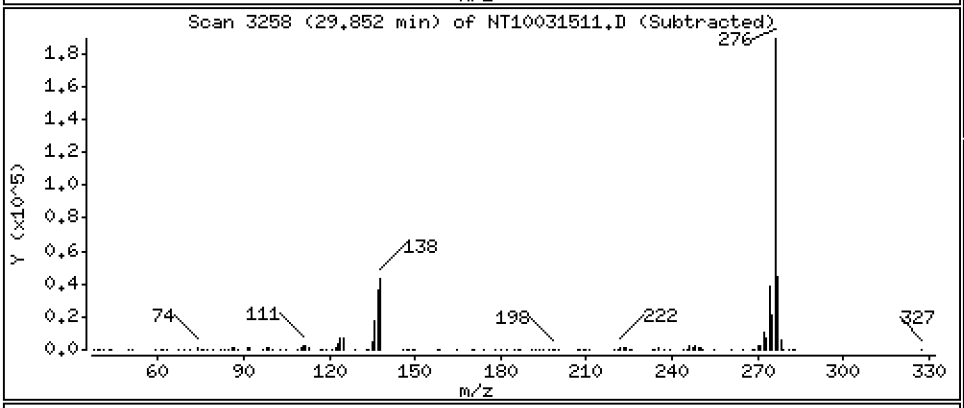
Column diameter: 0.25

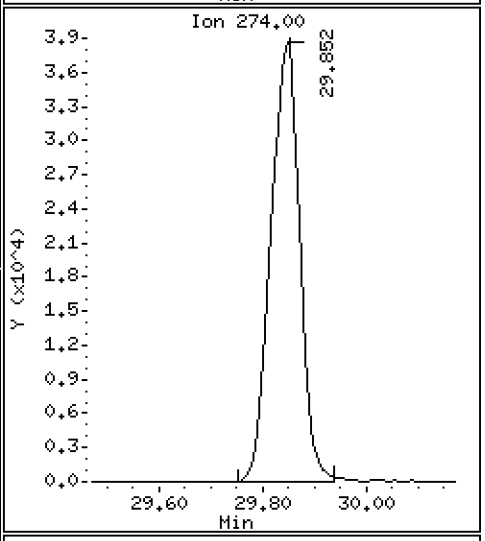
80 Benzo(g,h,i)perylene

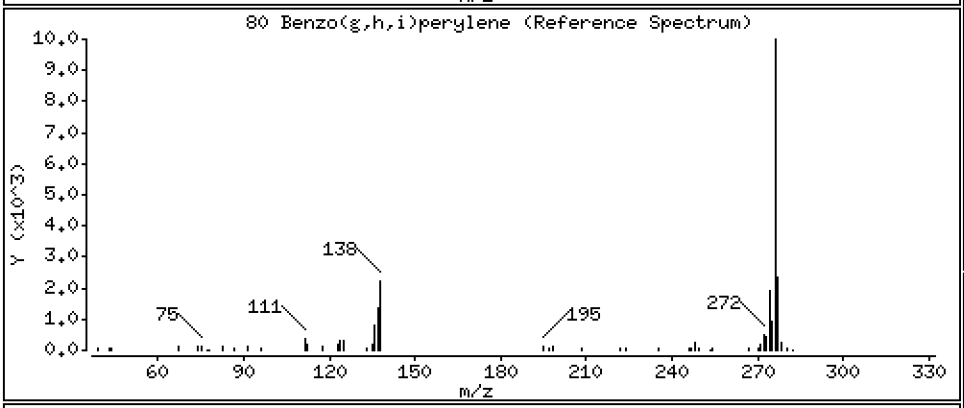
Concentration: 4.590 ug/mL

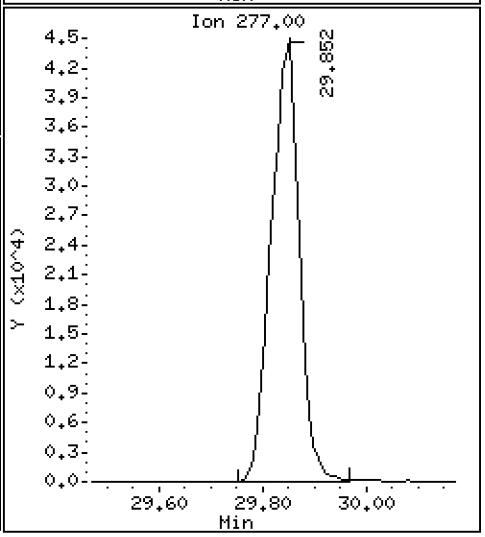


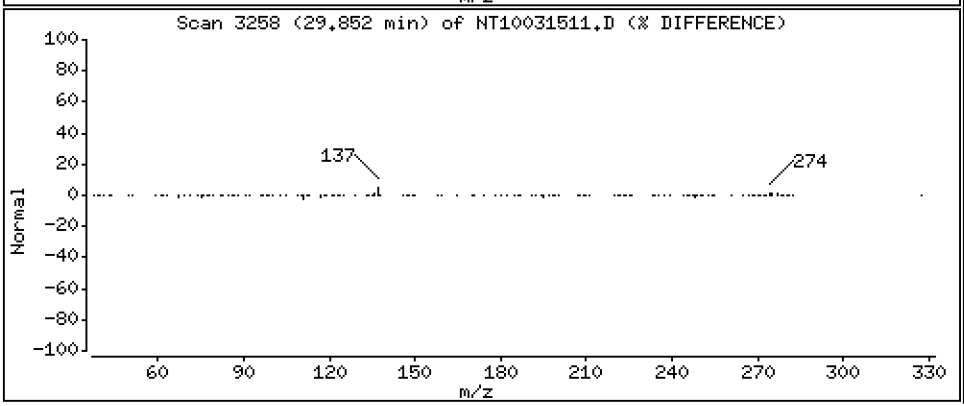












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

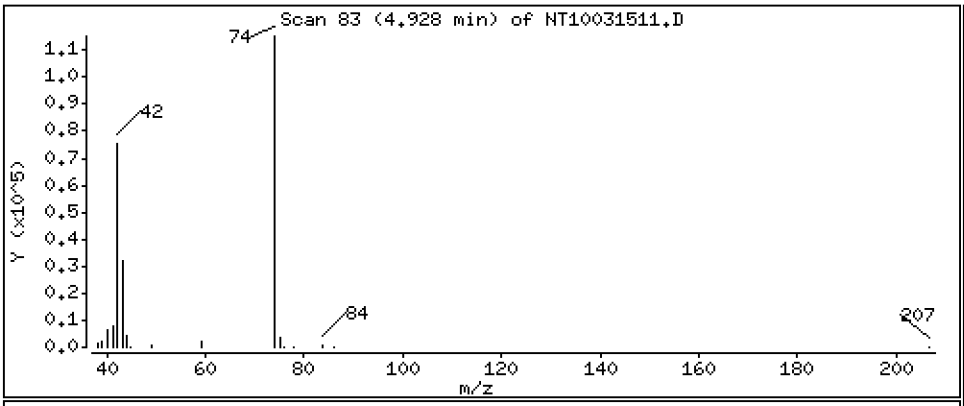
Operator: VTS

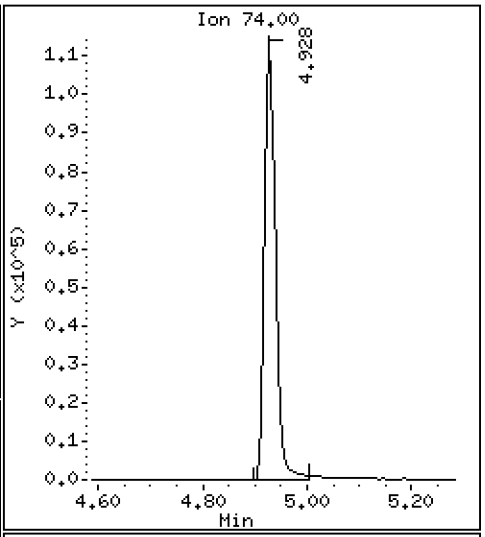
Column phase: ZB-5msi

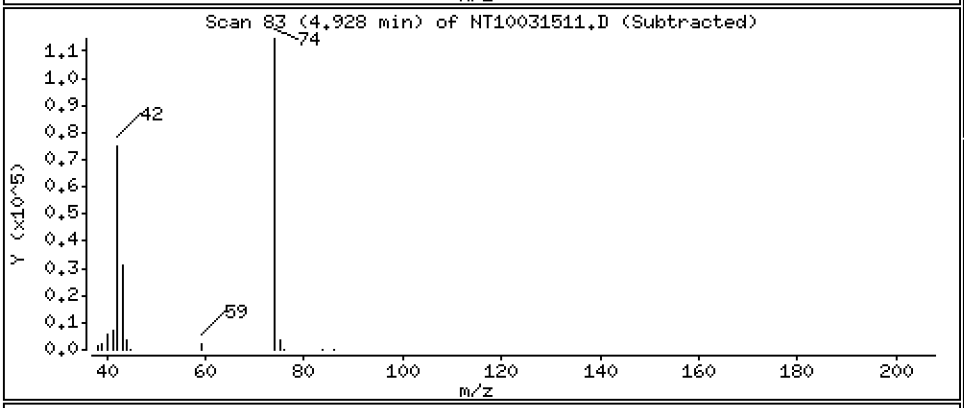
Column diameter: 0.25

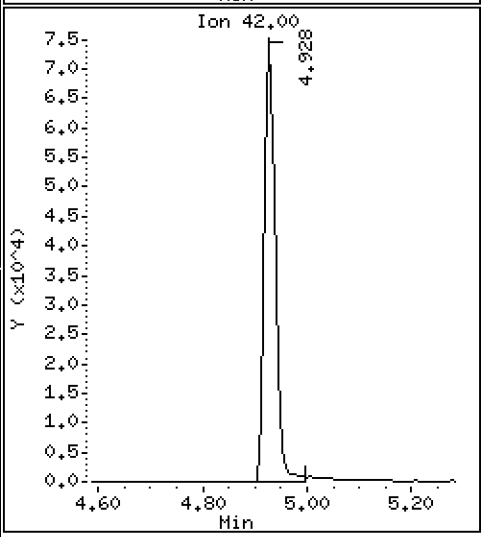
90 N-Nitrosodimethylamine

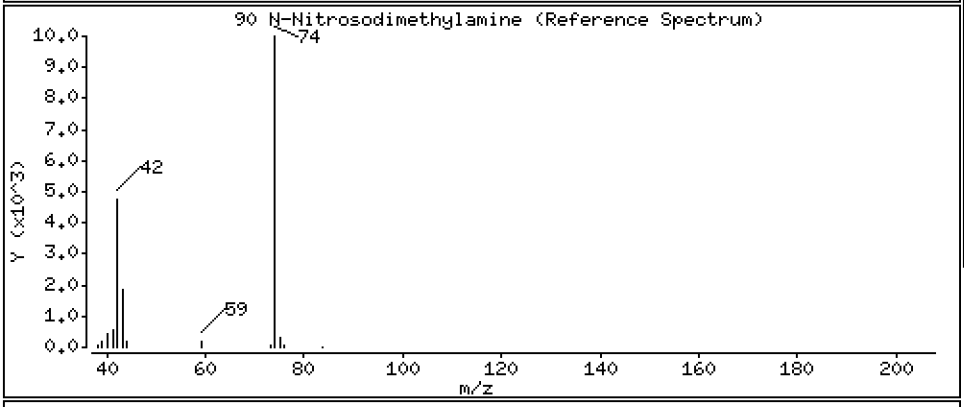
Concentration: 5.194 ug/mL

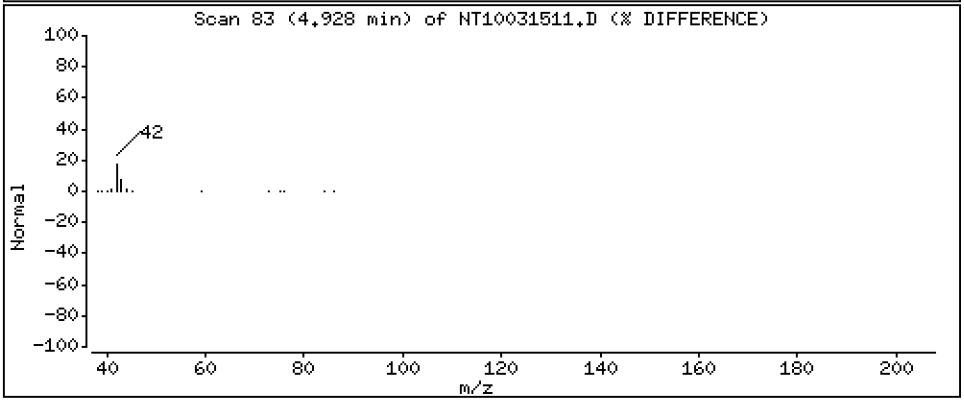












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

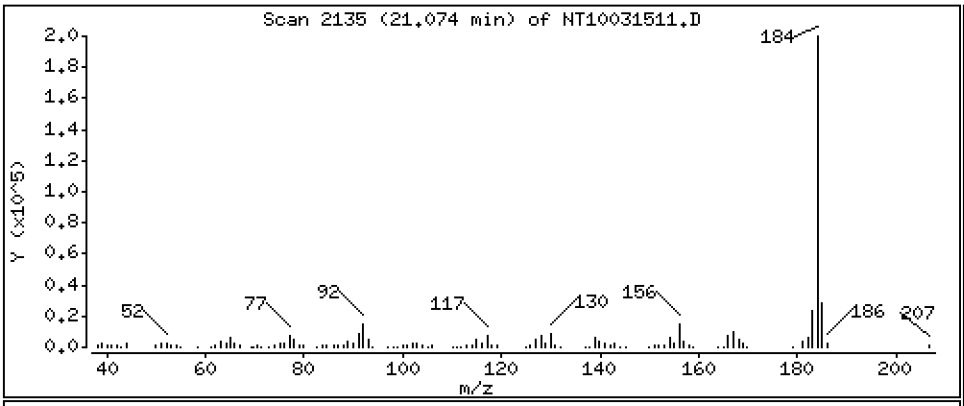
Operator: VTS

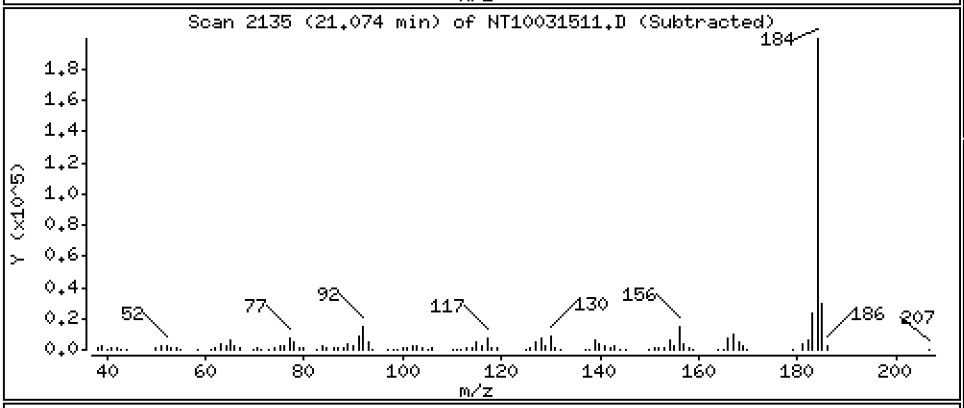
Column phase: ZB-5msi

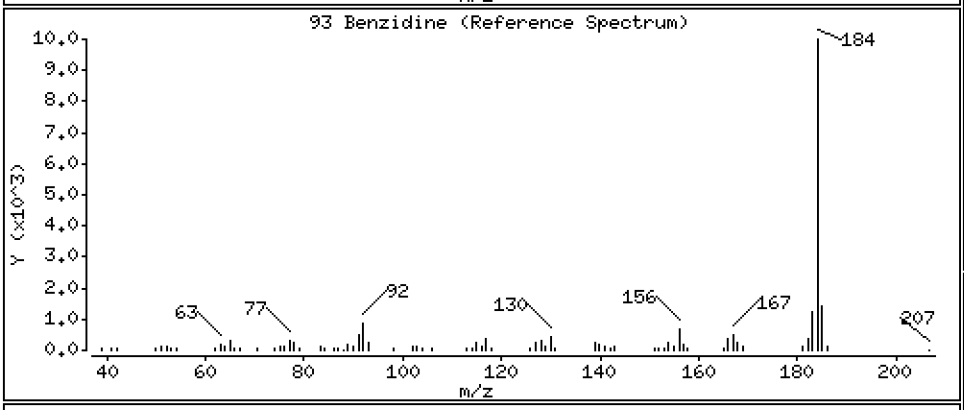
Column diameter: 0.25

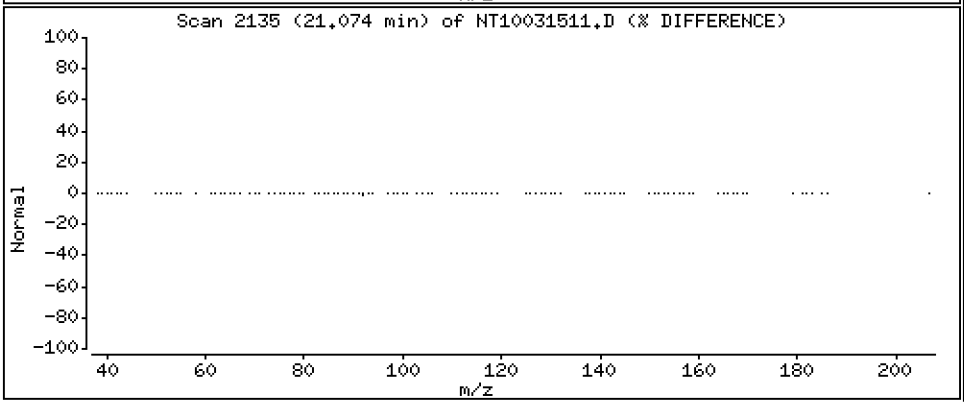
93 Benzidine

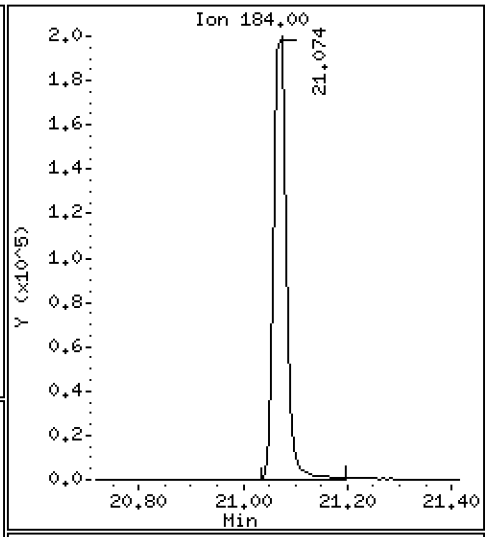
Concentration: 4.380 ug/mL

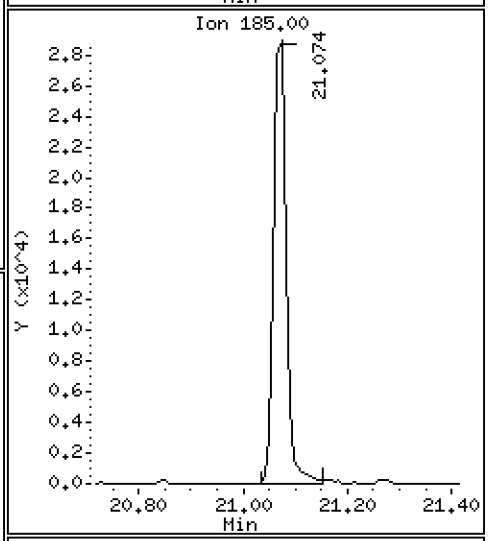


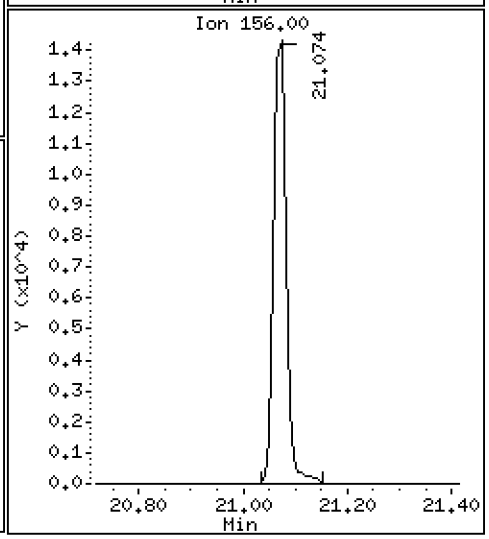












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

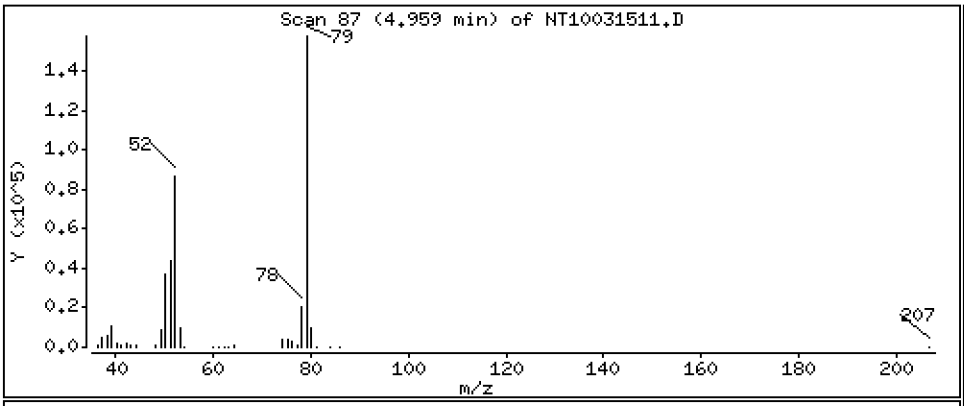
Operator: VTS

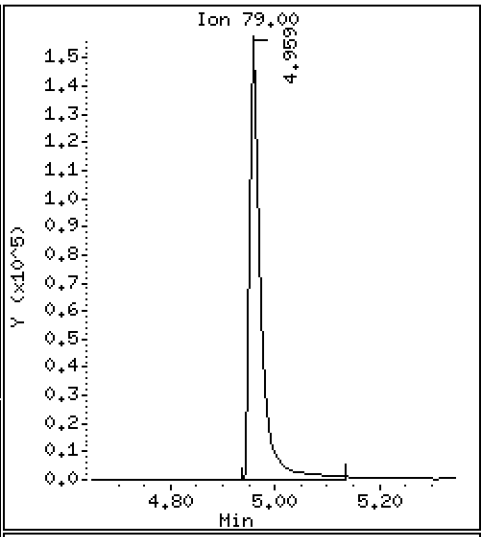
Column phase: ZB-5msi

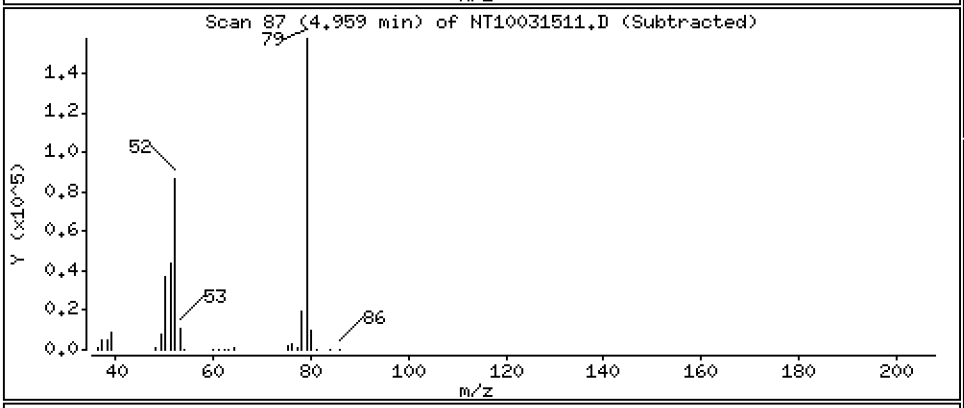
Column diameter: 0.25

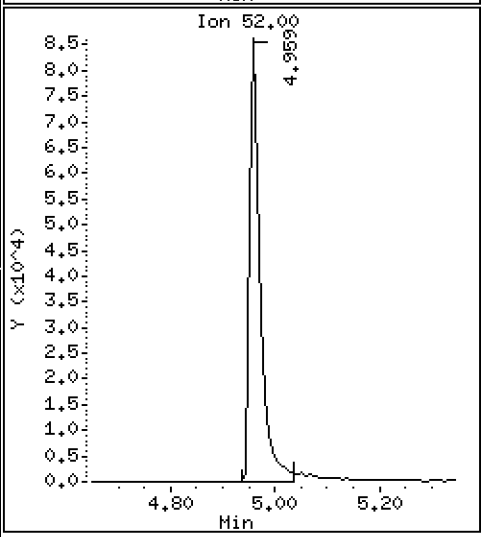
103 Pyridine

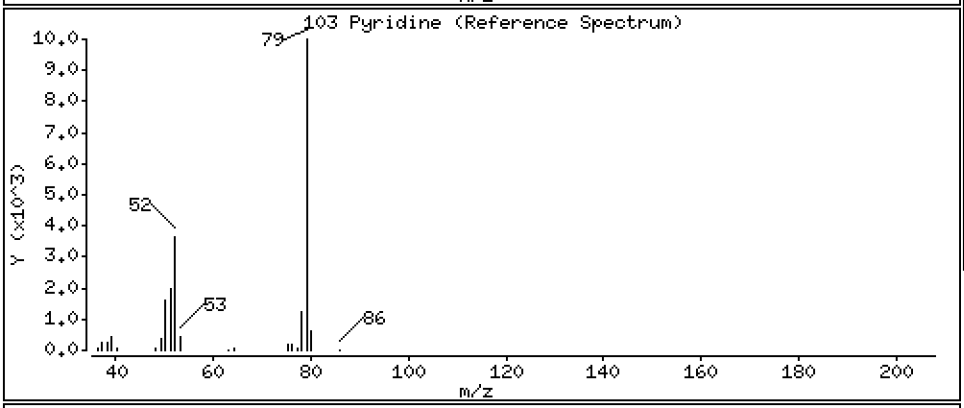
Concentration: 5.337 ug/mL

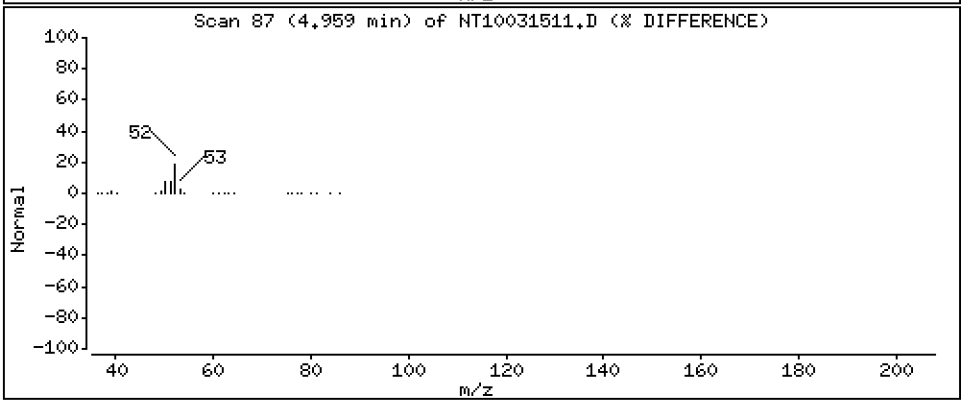












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

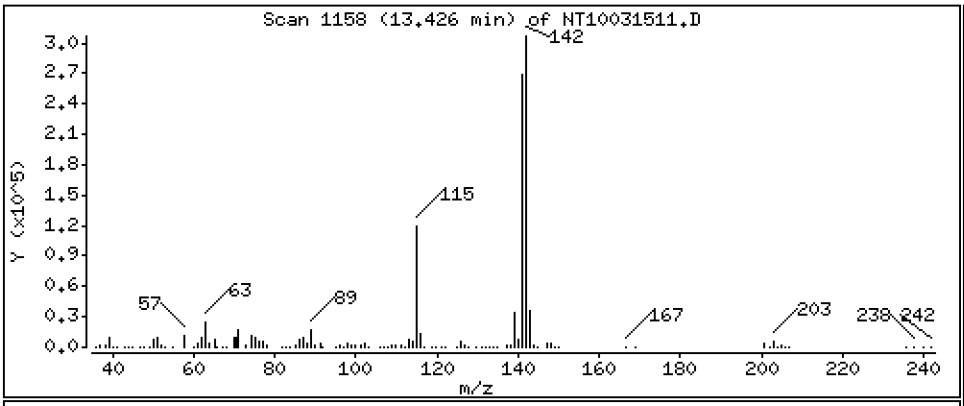
Operator: VTS

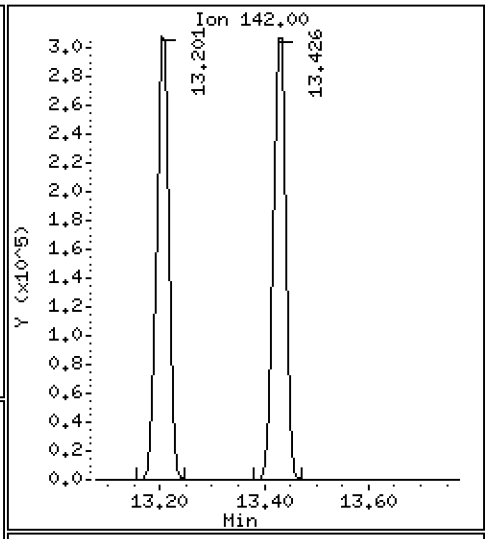
Column phase: ZB-5msi

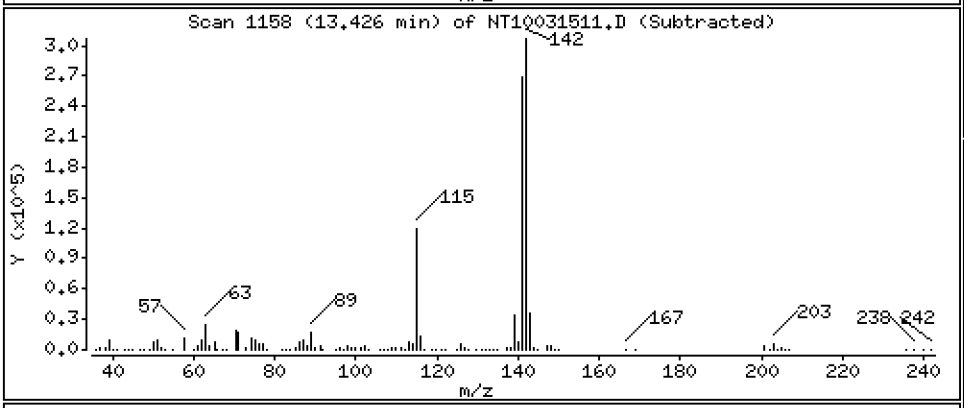
Column diameter: 0.25

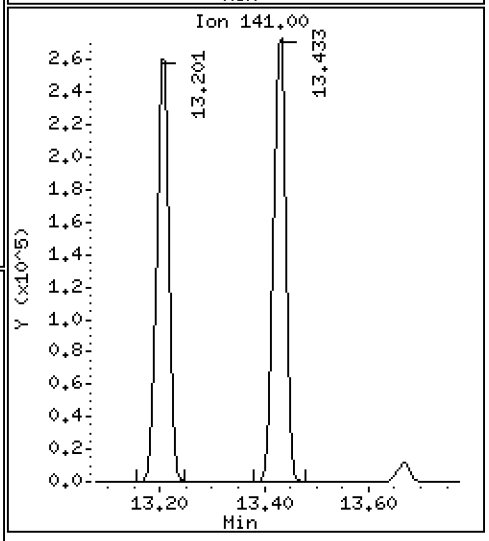
105 1-methylnaphthalene

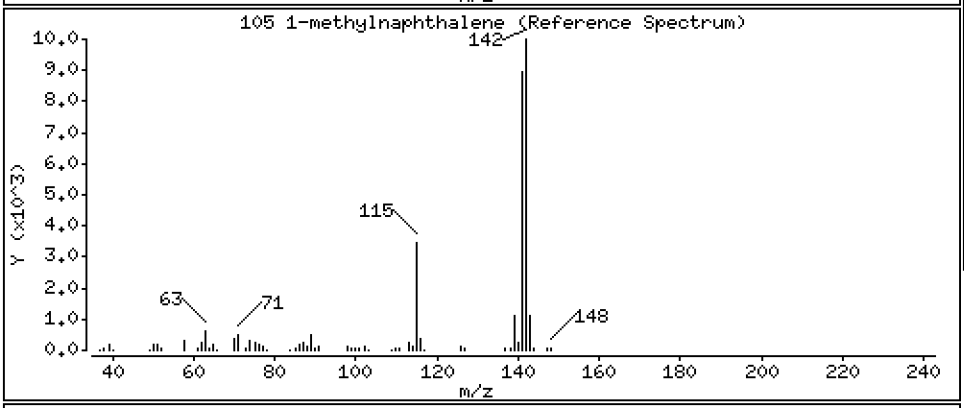
Concentration: 4.875 ug/mL

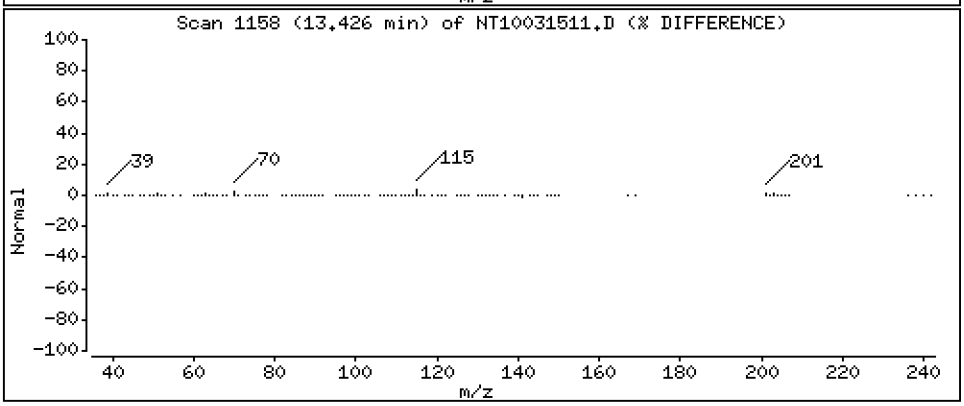












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

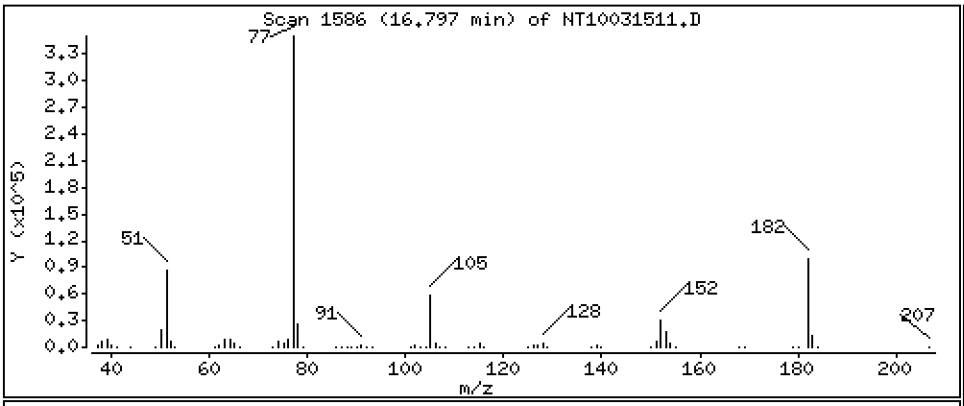
Operator: VTS

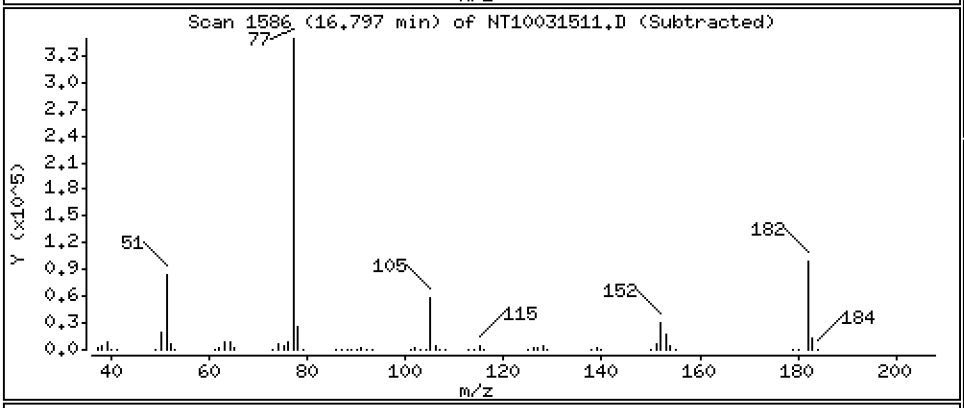
Column phase: ZB-5msi

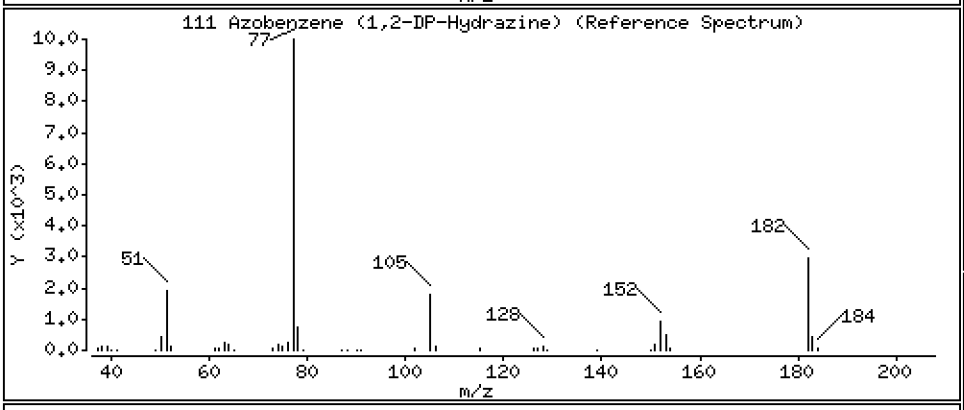
Column diameter: 0.25

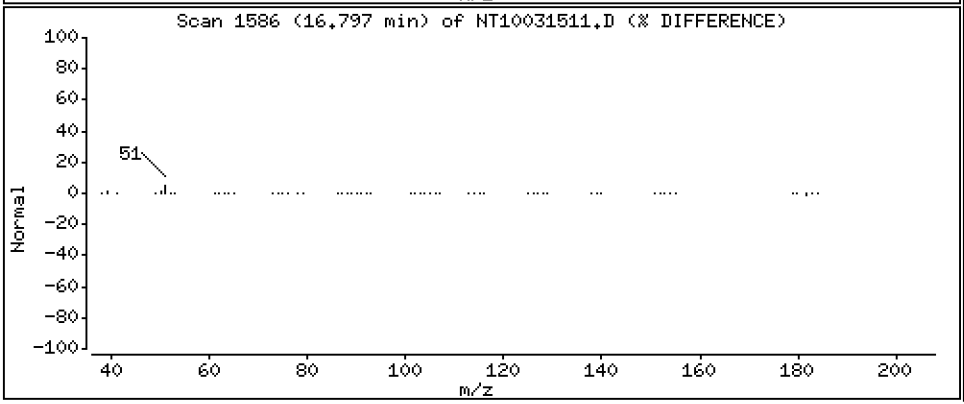
111 Azobenzene (1,2-DP-Hydrazine)

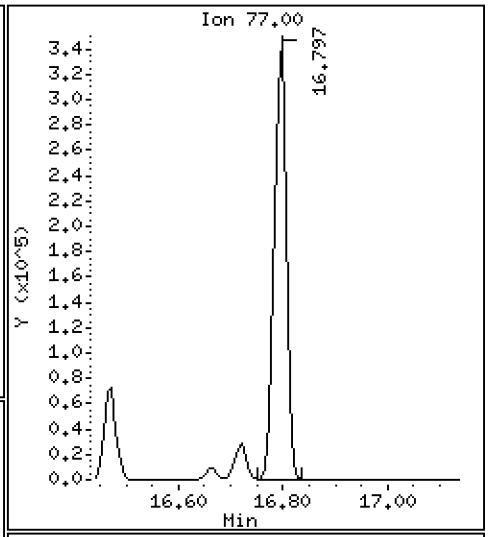
Concentration: 4.937 ug/mL

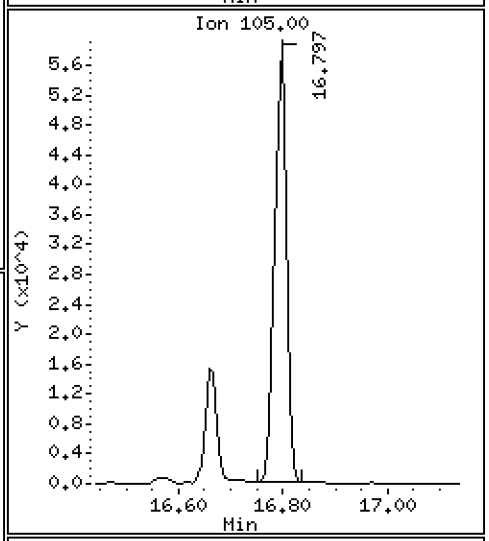


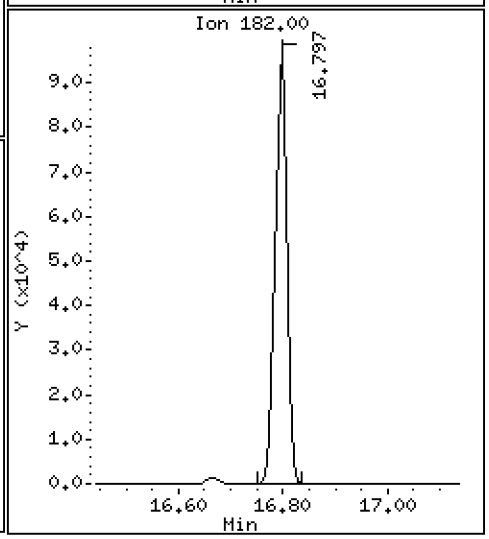












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

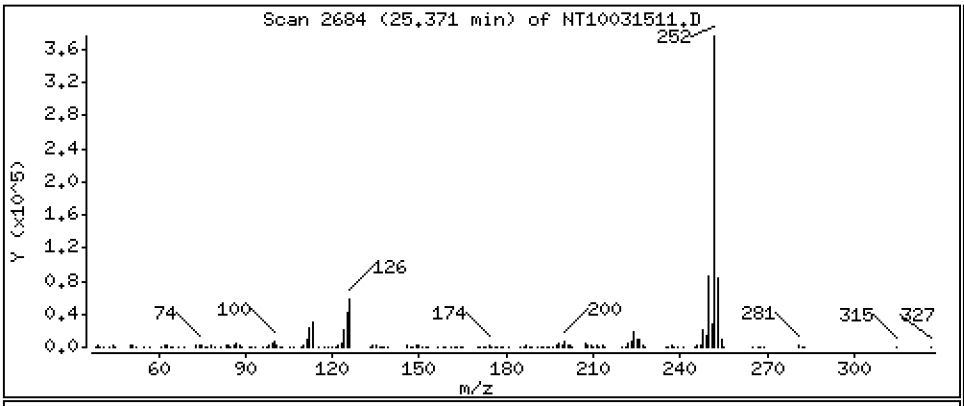
Operator: VTS

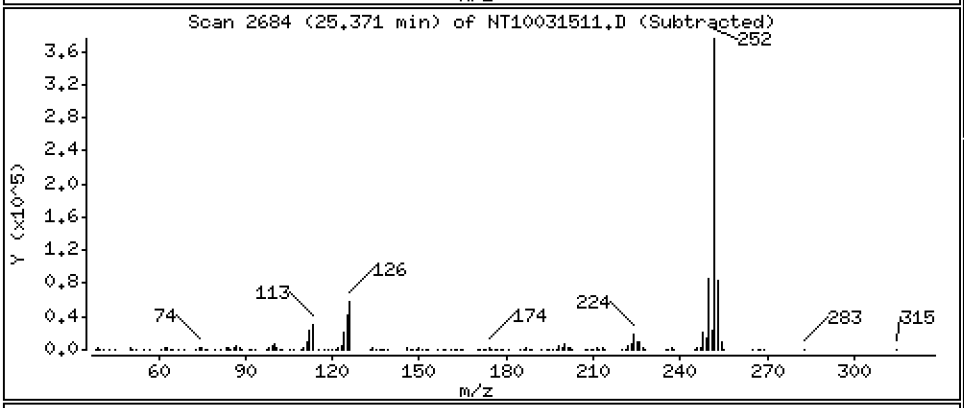
Column phase: ZB-5msi

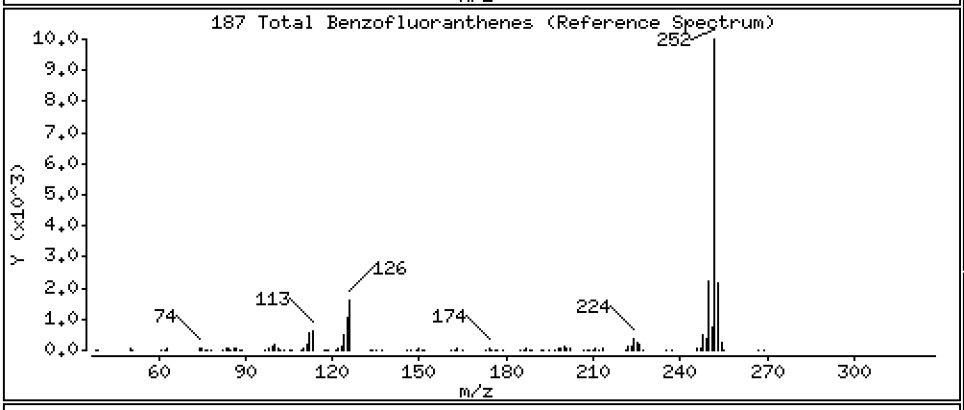
Column diameter: 0.25

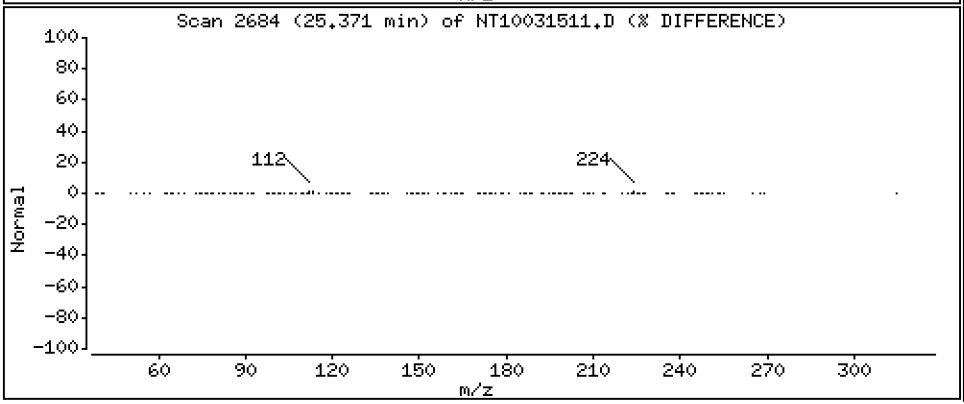
187 Total Benzofluoranthenes

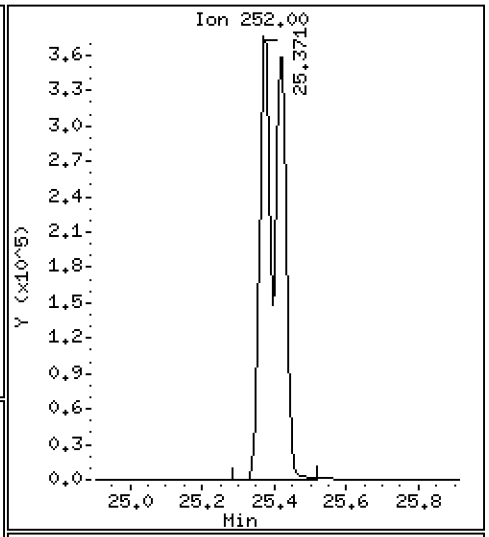
Concentration: 9.483 ug/mL

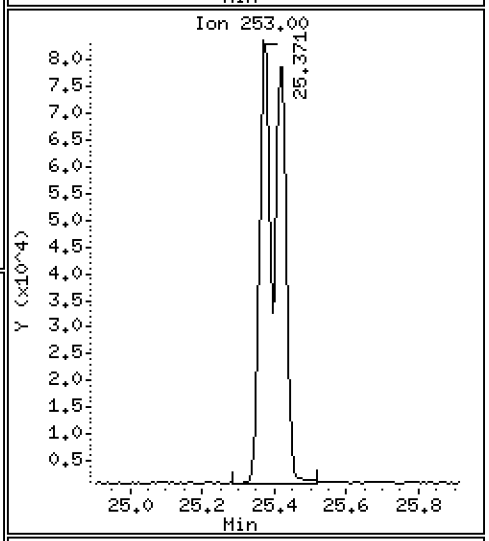


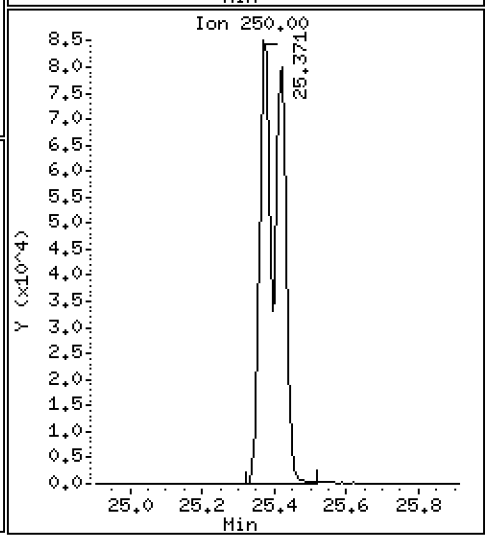












Data File: \\target\share\chem3\nt10.i\20230315.b\NT10031511.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0228-SCV1

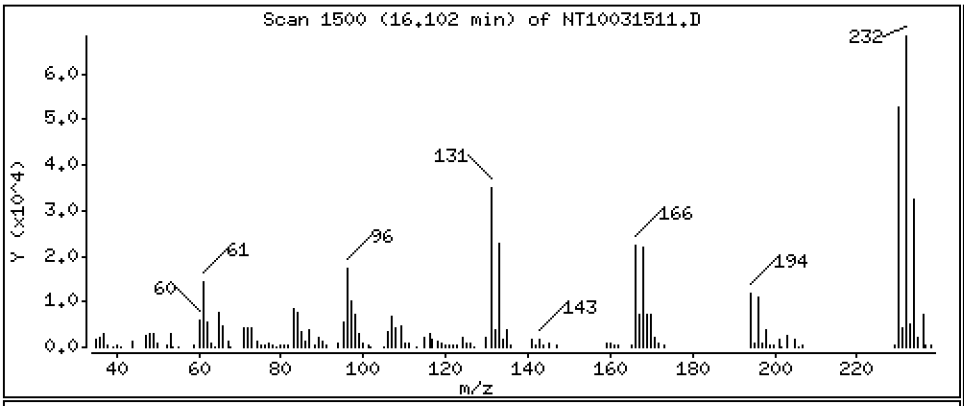
Operator: VTS

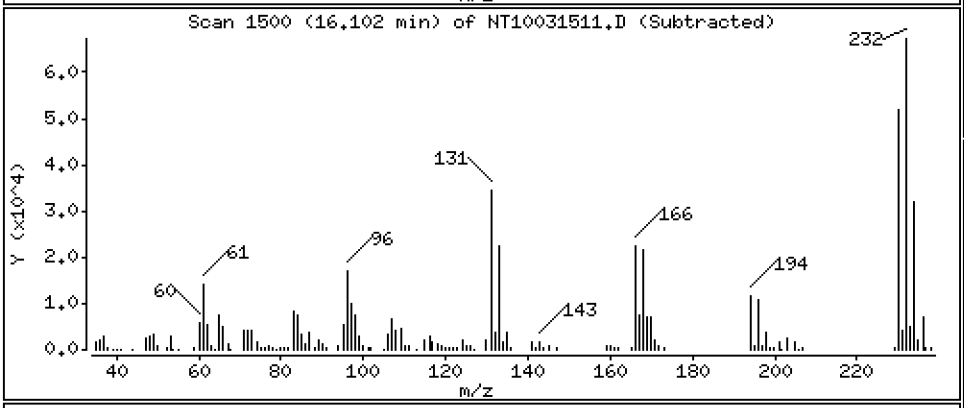
Column phase: ZB-5msi

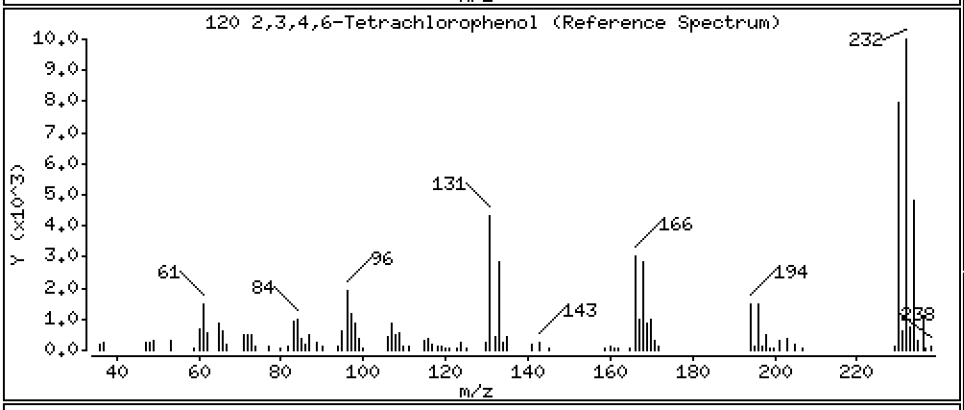
Column diameter: 0.25

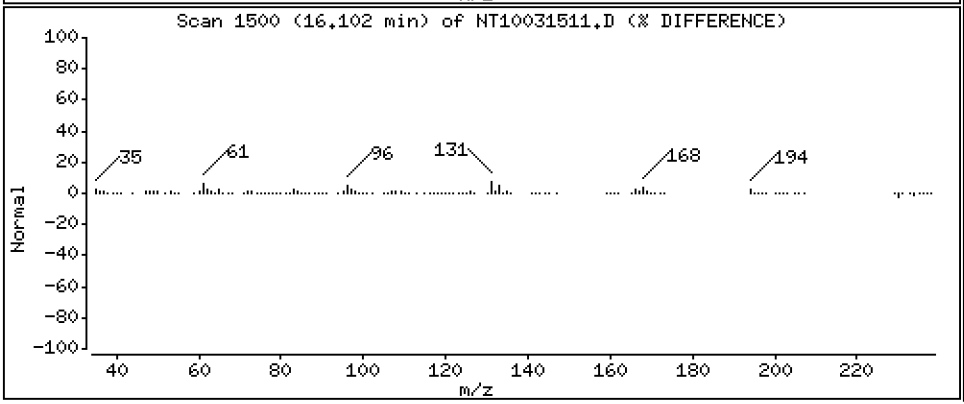
120 2,3,4,6-Tetrachlorophenol

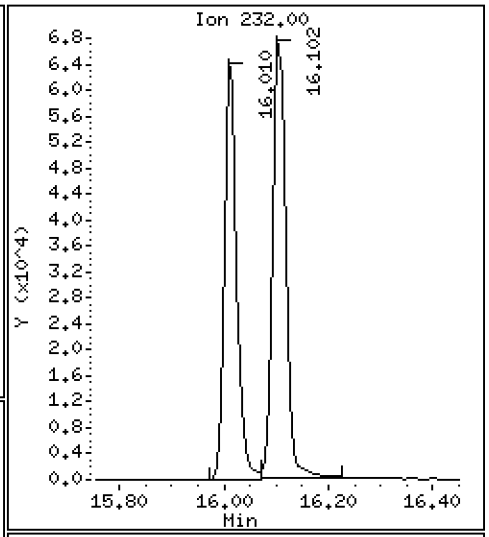
Concentration: 3.980 ug/mL

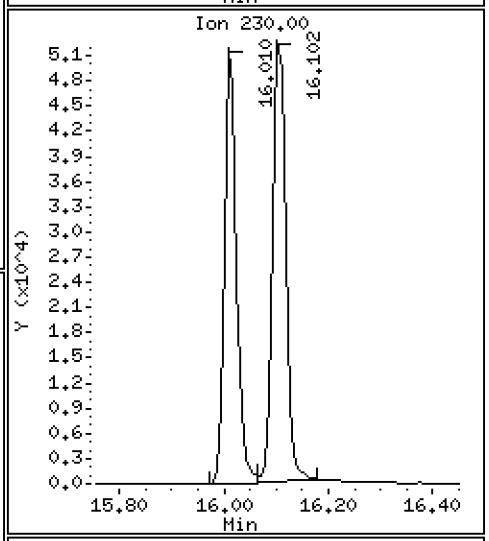


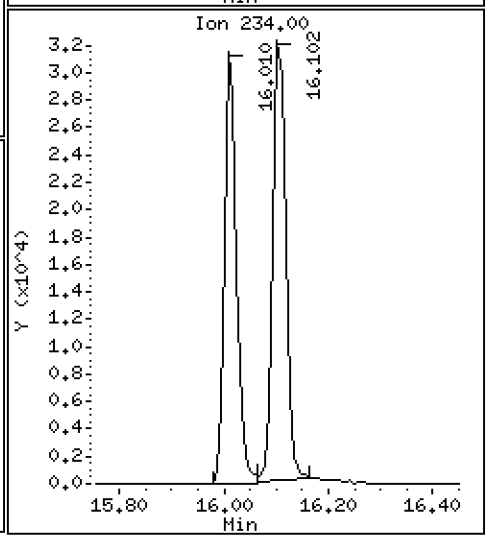












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230315.b\NT10031511.D
Lab Smp Id: SLC0228-SCV1
Inj Date : 16-MAR-2023 02:16
Operator : VTS Inst ID: nt10.i
Smp Info : SLC0228-SCV1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230315.b\ABN.m
Meth Date : 16-Mar-2023 12:06 van Quant Type: ISTD
Cal Date : 16-MAR-2023 00:22 Cal File: NT10031508.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
$ 1	2-Fluorophenol	112	Compound Not Detected.					
$ 2	Phenol-d5	99	Compound Not Detected.					
3	Phenol	94	8.659	8.652	(0.931)	281600	4.41237	4.412
$ 5	2-Chlorophenol-d4	132	Compound Not Detected.					
4	Bis(2-Chloroethyl)ether	93	8.837	8.837	(0.950)	248892	5.25818	5.258
6	2-Chlorophenol	128	8.960	8.961	(0.963)	233608	4.27685	4.277
7	1,3-Dichlorobenzene	146	9.239	9.231	(0.993)	275540	4.77157	4.772
* 8	1,4-Dichlorobenzene-d4	152	9.301	9.293	(1.000)	154809	4.00000	
9	1,4-Dichlorobenzene	146	9.332	9.325	(1.003)	274051	4.91272	4.913
$ 10	1,2-Dichlorobenzene-d4	152	Compound Not Detected.					
12	1,2-Dichlorobenzene	146	9.689	9.682	(1.042)	268028	4.88215	4.882
11	Benzyl alcohol	108	9.557	9.557	(1.028)	147597	4.92722	4.927
14	2,2'-oxybis(1-Chloropropane)	121	9.860	9.860	(1.060)	100179	6.21363	6.214
13	2-Methylphenol	108	9.775	9.767	(1.051)	196115	4.21542	4.215
17	Hexachloroethane	117	10.279	10.271	(1.105)	114513	5.00332	5.003
16	N-Nitroso-di-n-propylamine	70	10.116	10.108	(1.088)	190250	5.17896	5.179
15	4-Methylphenol	108	10.046	10.031	(1.080)	213951	4.36462	4.365
$ 18	Nitrobenzene-d5	82	Compound Not Detected.					
19	Nitrobenzene	77	10.426	10.419	(0.885)	274714	4.85798	4.858
20	Isophorone	82	10.861	10.861	(0.922)	556741	7.69604	7.696
21	2-Nitrophenol	139	11.047	11.048	(0.938)	110302	3.99452	3.995
22	2,4-Dimethylphenol	107	11.081	11.082	(0.941)	188638	3.63181	3.632
23	Bis(2-Chloroethoxy)methane	93	11.285	11.285	(0.958)	273219	5.65409	5.654
24	Benzoic acid	105	11.217	11.166	(0.952)	173961	5.95241	5.952
25	2,4-Dichlorophenol	162	11.489	11.489	(0.975)	195480	4.70301	4.703
26	1,2,4-Trichlorobenzene	180	11.685	11.685	(0.992)	222176	4.55366	4.554
* 27	Naphthalene-d8	136	11.777	11.770	(1.000)	570882	4.00000	
28	Naphthalene	128	11.816	11.816	(1.003)	713318	4.71662	4.717
29	4-Chloroaniline	127	11.940	11.940	(1.014)	223402	3.78650	3.787
30	Hexachlorobutadiene	225	12.171	12.172	(1.033)	138198	4.83404	4.834
31	4-Chloro-3-methylphenol	107	12.876	12.876	(1.093)	208794	4.64027	4.640
32	2-Methylnaphthalene	142	13.201	13.201	(1.121)	501627	4.59617	4.596
33	Hexachlorocyclopentadiene	237	13.665	13.665	(0.888)	132827	4.72902	4.729

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
34	2,4,6-Trichlorophenol	196	13.820	13.820	(0.898)	137849	4.59559	4.596
35	2,4,5-Trichlorophenol	196	13.889	13.890	(0.903)	146935	4.40855	4.409
$ 36	2-Fluorobiphenyl	172	Compound Not Detected.					
37	2-Chloronaphthalene	162	14.199	14.191	(0.923)	466196	4.79589	4.796
38	2-Nitroaniline	65	14.454	14.447	(0.940)	134108	4.91137	4.911
39	Dimethylphthalate	163	14.880	14.873	(0.967)	486790	4.93747	4.937
40	Acenaphthylene	152	15.074	15.066	(0.980)	727839	4.80509	4.805
41	2,6-Dinitrotoluene	165	15.020	15.012	(0.976)	112840	5.29815	5.298
* 42	Acenaphthene-d10	164	15.383	15.383	(1.000)	303490	4.00000	
43	3-Nitroaniline	138	15.306	15.298	(0.995)	120530	5.01393	5.014
44	Acenaphthene	153	15.453	15.445	(1.005)	446914	4.77589	4.776
45	2,4-Dinitrophenol	184	15.515	15.515	(1.009)	27409	2.12395	2.124
46	Dibenzofuran	168	15.777	15.770	(1.026)	641379	4.64790	4.648
47	4-Nitrophenol	109	15.600	15.592	(1.014)	59816	3.96568	3.966
48	2,4-Dinitrotoluene	165	15.824	15.817	(1.029)	144262	4.51019	4.510
50	Diethylphthalate	149	16.326	16.319	(1.061)	503887	5.20905	5.209
49	Fluorene	166	16.489	16.481	(1.072)	511113	4.70796	4.708
51	4-Chlorophenyl-phenylether	204	16.473	16.466	(1.071)	257762	4.99294	4.993
52	4-Nitroaniline	138	16.566	16.566	(1.077)	106701	4.92532	4.925
53	4,6-Dinitro-2-methylphenol	198	16.666	16.658	(0.905)	56867	3.51509	3.515
54	N-Nitrosodiphenylamine	169	16.720	16.712	(0.908)	342454	4.80180	4.802
$ 55	2,4,6-Tribromophenol	330	Compound Not Detected.					
56	4-Bromophenyl-phenylether	248	17.475	17.476	(0.949)	150956	5.05964	5.060
57	Hexachlorobenzene	284	17.800	17.793	(0.966)	143751	4.59553	4.596
58	Pentachlorophenol	266	18.149	18.149	(0.985)	75635	4.05676	4.057
* 59	Phenanthrene-d10	188	18.420	18.420	(1.000)	533431	4.00000	
60	Phenanthrene	178	18.466	18.466	(1.003)	669357	4.60181	4.602
61	Anthracene	178	18.559	18.559	(1.008)	581438	4.16715	4.167
62	Carbazole	167	18.884	18.884	(1.025)	591382	4.72989	4.730
63	Di-n-butylphthalate	149	19.665	19.666	(1.068)	830680	4.96738	4.967
64	Fluoranthene	202	20.841	20.841	(0.888)	782432	4.47248	4.472
65	Pyrene	202	21.267	21.267	(0.907)	778668	4.33892	4.339
$ 66	Terphenyl-d14	244	Compound Not Detected.					
67	Butylbenzylphthalate	149	22.459	22.460	(0.957)	314007	4.83397	4.834
68	Benzo(a)anthracene	228	23.427	23.419	(0.999)	714166	4.64722	4.647
* 69	Chrysene-d12	240	23.458	23.450	(1.000)	435381	4.00000	
70	3,3'-Dichlorobenzidine	252	23.373	23.373	(0.996)	483256	9.81738	9.817
71	Chrysene	228	23.497	23.489	(1.002)	677151	4.51017	4.510
72	bis(2-Ethylhexyl)phthalate	149	23.481	23.474	(0.959)	453669	4.67998	4.680
* 134	Di-n-octylphthalate-d4	153	24.487	24.480	(1.000)	660827	4.00000	
73	Di-n-octylphthalate	149	24.495	24.488	(1.000)	855562	4.94734	4.947
74	Benzo(b)fluoranthene	252	25.370	25.362	(0.969)	737887	4.60200	4.602(H)
75	Benzo(k)fluoranthene	252	25.416	25.409	(0.970)	797521	4.89839	4.898
76	Benzo(a)pyrene	252	26.067	26.052	(0.995)	698616	4.87338	4.873
* 77	Perylene-d12	264	26.191	26.183	(1.000)	494648	4.00000	
78	Indeno(1,2,3-cd)pyrene	276	29.005	28.990	(1.107)	834672	4.57655	4.577
79	Dibenzo(a,h)anthracene	278	29.021	29.005	(1.108)	688433	4.54663	4.547
80	Benzo(g,h,i)perylene	276	29.852	29.821	(1.140)	724463	4.59000	4.590
90	N-Nitrosodimethylamine	74	4.928	4.936	(0.530)	155126	5.19378	5.194
91	Aniline	93	Compound Not Detected.					
93	Benzidine	184	21.073	21.066	(0.898)	314737	4.37985	4.380
103	Pyridine	79	4.959	4.997	(0.533)	244801	5.33678	5.337
105	1-methylnaphthalene	142	13.425	13.425	(1.140)	487498	4.87520	4.875
111	Azobenzene (1,2-DP-Hydrazine)	77	16.797	16.789	(1.092)	533524	4.93744	4.937

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.370	25.409	(0.969)	1468165	9.48349	9.483
120 2,3,4,6-Tetrachlorophenol	232	16.102	16.103	(1.047)	124685	3.97959	3.980

QC Flag Legend

H - Operator selected an alternate compound hit.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT10031511.D
Lab Smp Id: SLC0228-SCV1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230315.b\ABN.m
Misc Info:

Calibration Date: 15-MAR-2023
Calibration Time: 21:50
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	171542	85771	343084	154809	-9.75
27 Naphthalene-d8	624466	312233	1248932	570882	-8.58
42 Acenaphthene-d10	337226	168613	674452	303490	-10.00
59 Phenanthrene-d10	572849	286425	1145698	533431	-6.88
69 Chrysene-d12	347068	173534	694136	435381	25.45
134 Di-n-octylphthala	500317	250159	1000634	660827	32.08
77 Perylene-d12	421549	210775	843098	494648	17.34

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.30	8.80	9.80	9.30	-0.00
27 Naphthalene-d8	11.78	11.28	12.28	11.78	0.01
42 Acenaphthene-d10	15.38	14.88	15.88	15.38	0.00
59 Phenanthrene-d10	18.42	17.92	18.92	18.42	0.00
69 Chrysene-d12	23.45	22.95	23.95	23.46	0.04
134 Di-n-octylphthala	24.48	23.98	24.98	24.49	0.03
77 Perylene-d12	26.18	25.68	26.68	26.19	0.03

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

REVIEW SUMMARY FOR FILE - NT10031511.D

Lab ID: SLC0228-SCV1
nt10.i, 20230315.b\ABN.m,   16-MAR-2023 02:16

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

** FIRST SURROGATE NOT FOUND. ICAL Check not performed **

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.952	0.000	0.9524	Benzoic acid

RRT check based on Ccal File: NT10031508.D

On Column LOD for nt10.i, 20230315.b\ABN.m, ICAL.sub = 0.0000

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

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	NT10	Calibration:	GC00046
Lab File ID:	NT1003212318.D	Calibration Date:	03/15/2023
Sequence:	SLC0451	Injection Date:	03/22/23
Lab Sample ID:	SLC0451-CCV1	Injection Time:	04:03
Sequence Name:	Calibration Check		

		CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Phenol	A	5.0000	4.7	1.6490140	1.5504700		-6.0	+/-50
4-Methylphenol	A	5.0000	4.9	1.2665770	1.2478090		-1.5	+/-50
Naphthalene	A	5.0000	4.8	1.0596590	1.0151780		-4.2	+/-50
2-Methylnaphthalene	A	5.0000	5.1	0.7647129	0.7744236		1.3	+/-50
Acenaphthylene	A	5.0000	4.9	1.9964080	1.9573490		-2.0	+/-50
Dimethylphthalate	A	5.0000	5.1	1.2994310	1.3142230		1.1	+/-50
Acenaphthene	A	5.0000	4.9	1.2333460	1.1973800		-2.9	+/-50
Dibenzofuran	A	5.0000	4.9	1.8187540	1.7915190		-1.5	+/-50
Fluorene	A	5.0000	5.0	1.4308680	1.4384010		0.5	+/-50
Phenanthrene	A	5.0000	4.8	1.0907130	1.0530590		-3.5	+/-50
Anthracene	A	5.0000	5.2	1.0462760	1.0877060		4.0	+/-50
Fluoranthene	A	5.0000	4.3	1.6072690	1.3680900		-14.9	+/-50
Pyrene	A	5.0000	4.3	1.6487720	1.4184060		-14.0	+/-50
Butylbenzylphthalate	A	5.0000	4.9	0.5292894	0.5870308		-1.7	+/-50
Benzo(a)anthracene	A	5.0000	4.9	1.4118770	1.3790660		-2.3	+/-50
Chrysene	A	5.0000	4.7	1.3793780	1.2996100		-5.8	+/-50
bis(2-Ethylhexyl)phthalate	A	5.0000	4.5	0.5248968	0.5334463		-9.1	+/-50
Benzofluoranthenes, Total	A	10.000	10.0	1.2519020	1.2545140		0.2	+/-50
Benzo(a)pyrene	A	5.0000	5.1	1.1592370	1.1913290		2.8	+/-50
Indeno(1,2,3-cd)pyrene	A	5.0000	4.6	1.4748270	1.3437850		-8.9	+/-50
Dibenzo(a,h)anthracene	A	5.0000	4.7	1.2244340	1.1460150		-6.4	+/-50
Benzo(g,h,i)perylene	A	5.0000	4.3	1.2763410	1.0991320		-13.9	+/-50
2-Fluorophenol	A	7.5000	7.54	1.2096460	1.2156460		0.5	+/-50
Phenol-d5	A	7.5000	7.45	1.5868760	1.5759920		-0.7	+/-50
2-Chlorophenol-d4	A	7.5000	7.65	1.3550800	1.3821740		2.0	+/-50
1,2-Dichlorobenzene-d4	A	5.0000	4.85	0.9731556	0.9440178		-3.0	+/-50
Nitrobenzene-d5	A	5.0000	4.73	0.4037447	0.3817999		-5.4	+/-50
2-Fluorobiphenyl	A	5.0000	4.91	1.5822890	1.5549410		-1.7	+/-50
2,4,6-Tribromophenol	A	7.5000	8.85	0.1585901	0.2194411		18.0	+/-50
p-Terphenyl-d14	A	5.0000	4.58	1.2381950	1.1350010		-8.3	+/-50

* Values outside of QC limits

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212318.D

Date : 22-MAR-2023 04:03

Client ID:

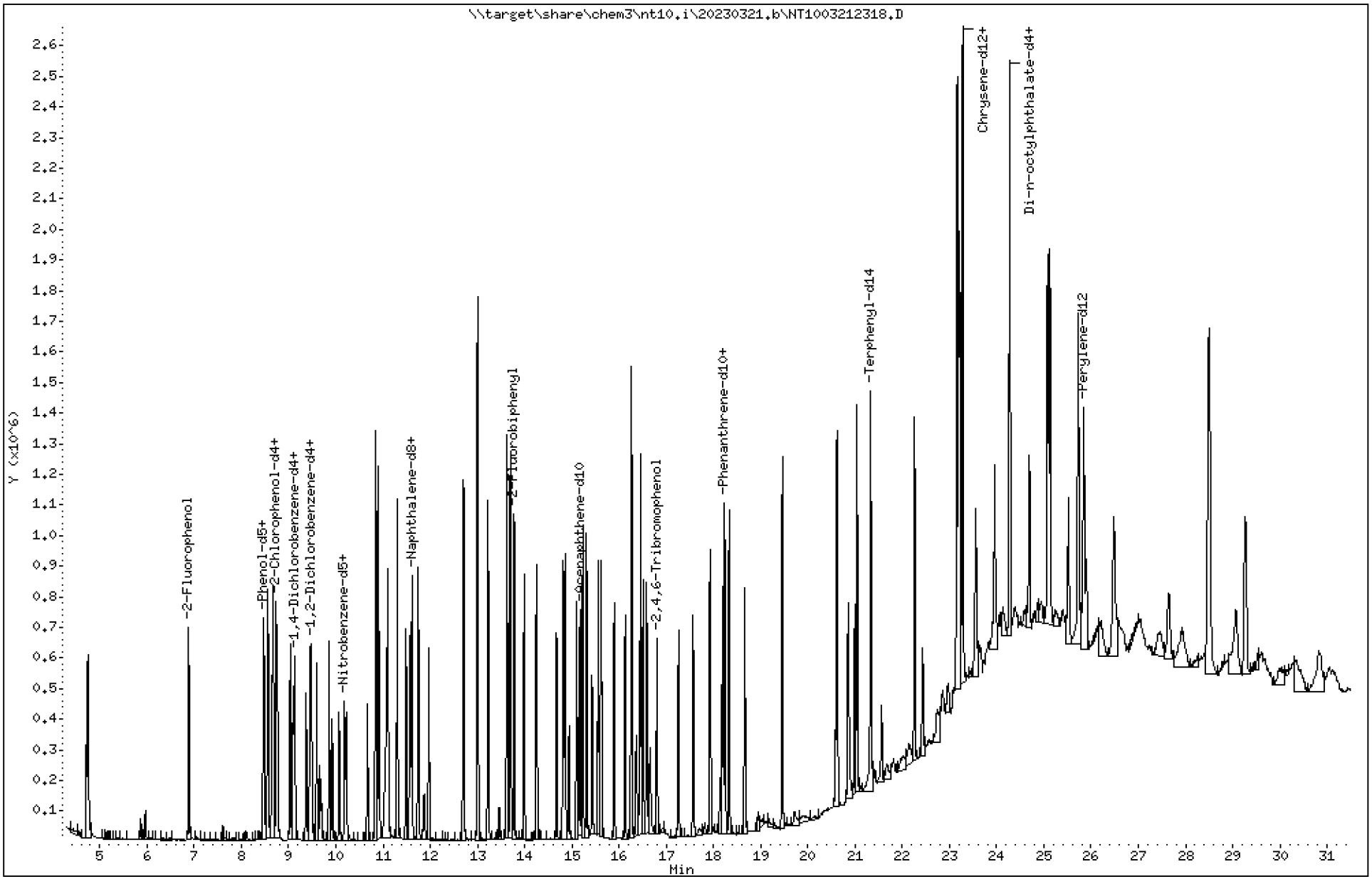
Instrument: nt10.i

Sample Info: SLC0451-CCV1

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



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Date : 22-MAR-2023 04:03

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-CCV1

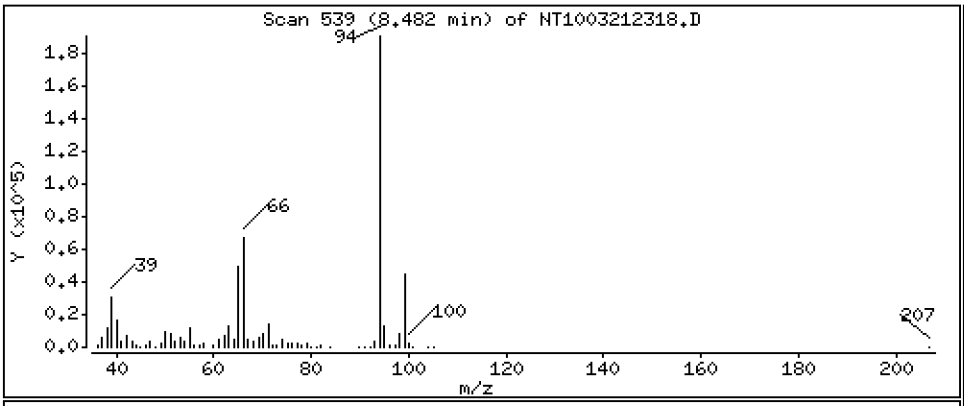
Operator: VTS

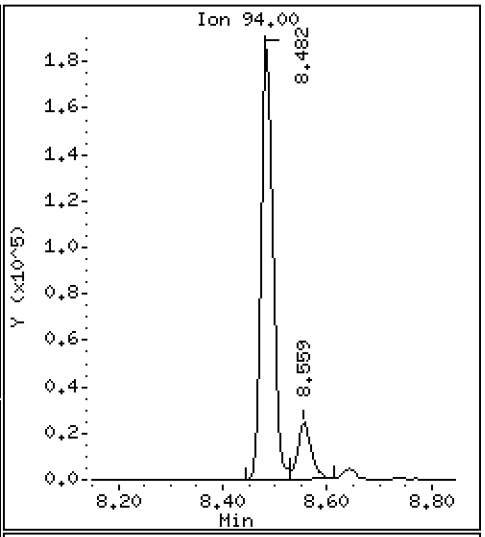
Column phase: ZB-5msi

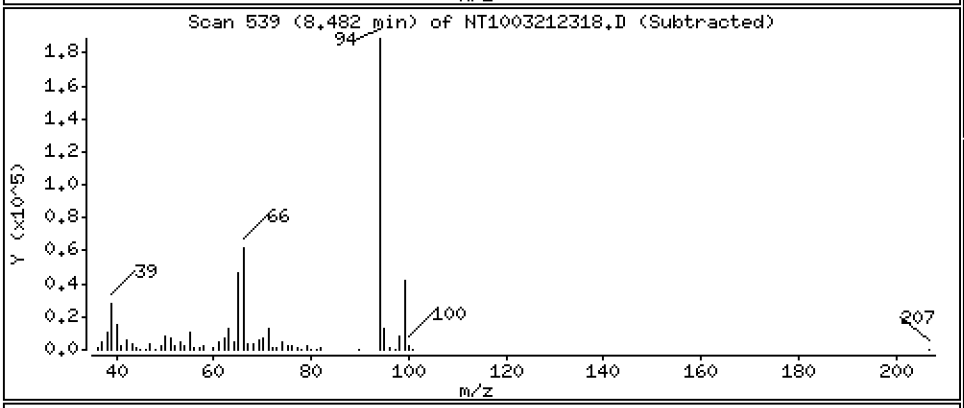
Column diameter: 0.25

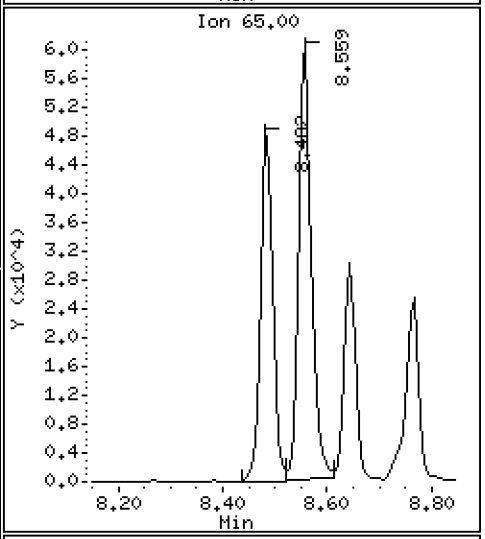
3 Phenol

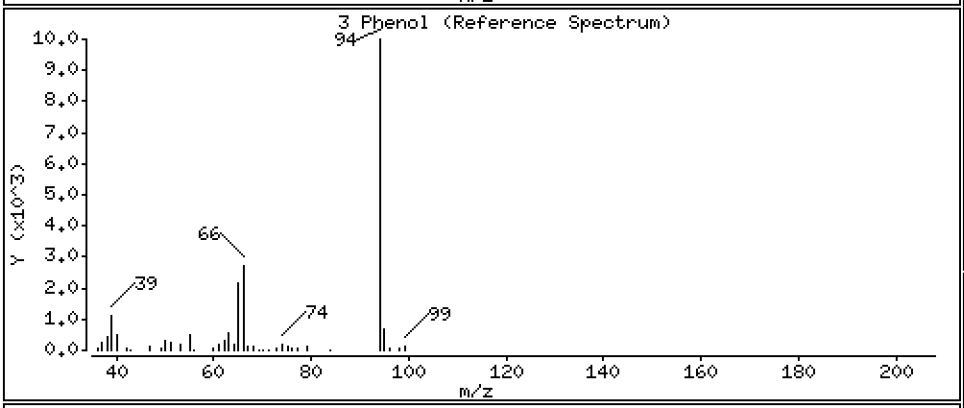
Concentration: 4.701 ug/mL

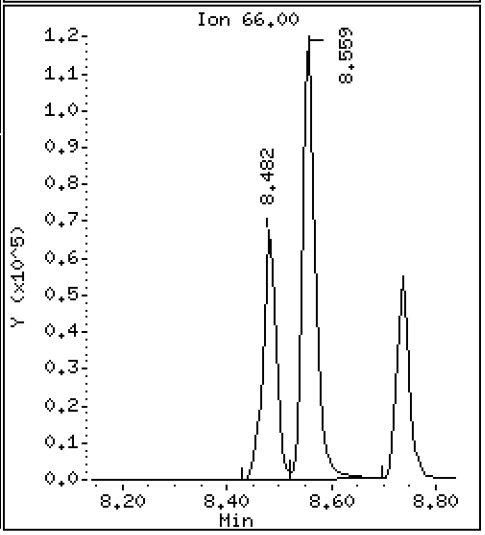


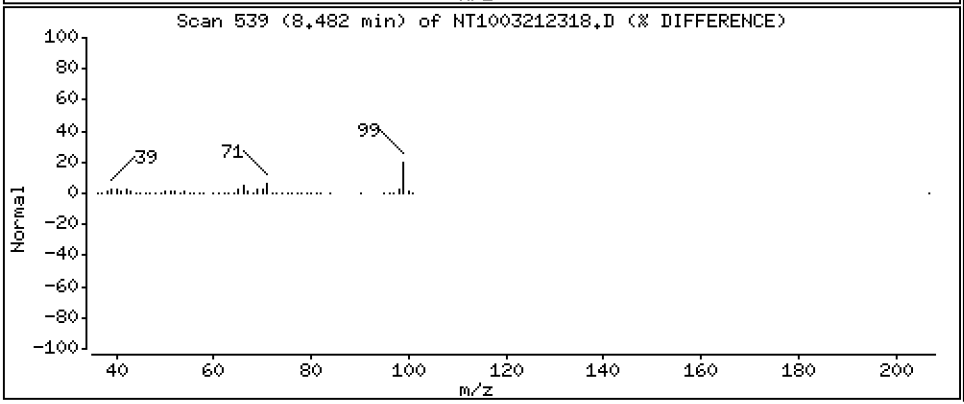












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Date : 22-MAR-2023 04:03

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-CCV1

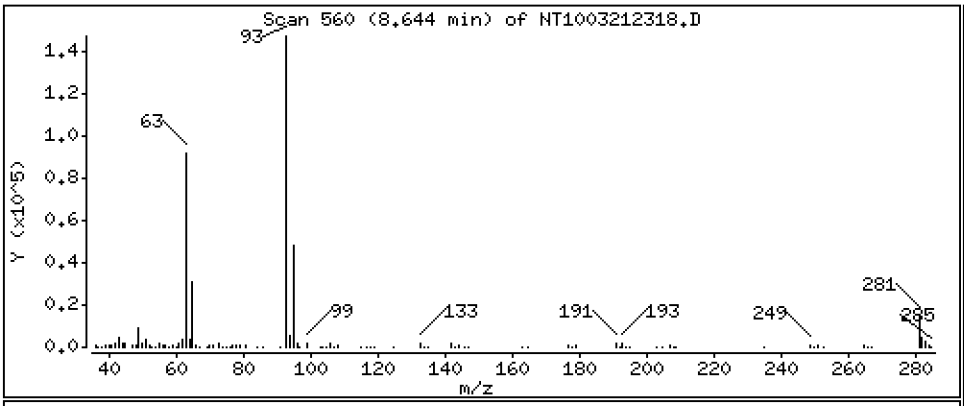
Operator: VTS

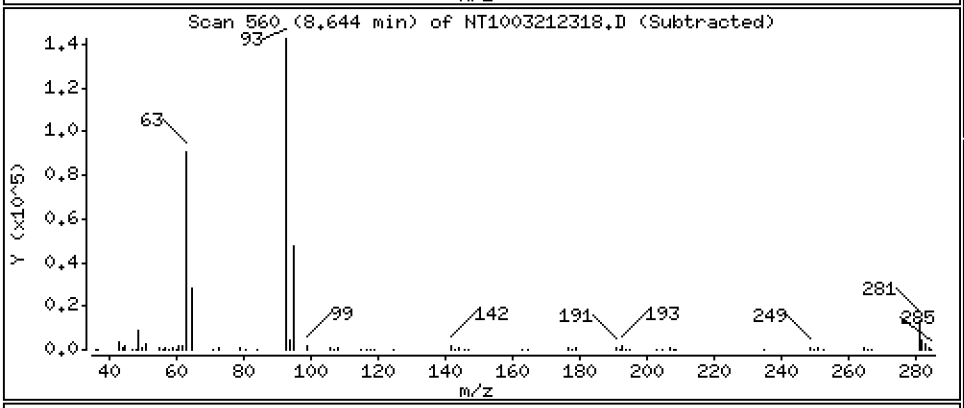
Column phase: ZB-5msi

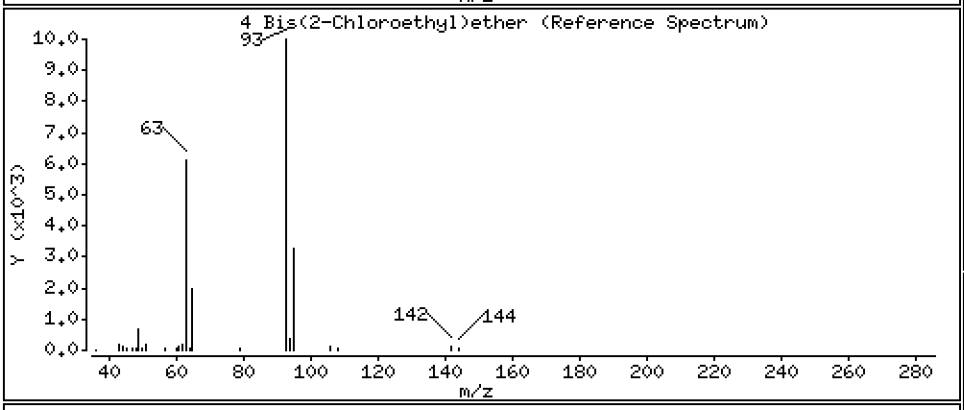
Column diameter: 0.25

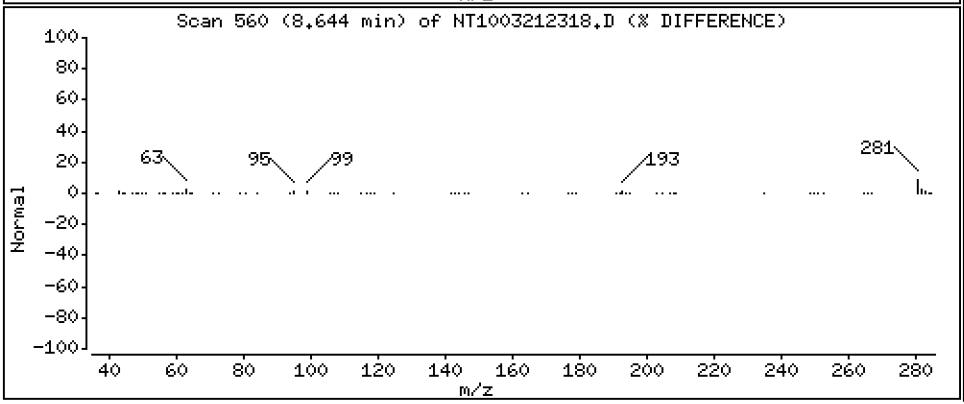
4 Bis(2-Chloroethyl)ether

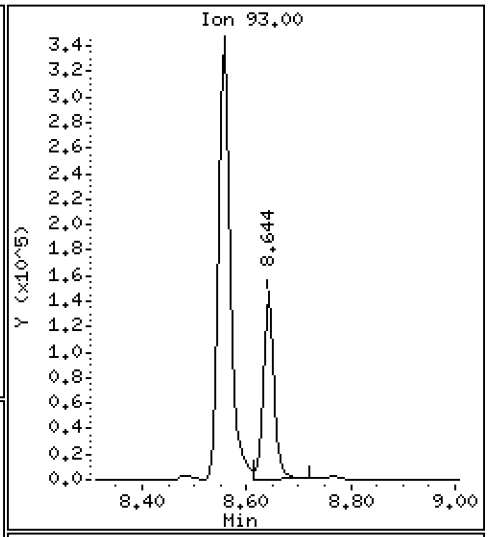
Concentration: 4.702 ug/mL

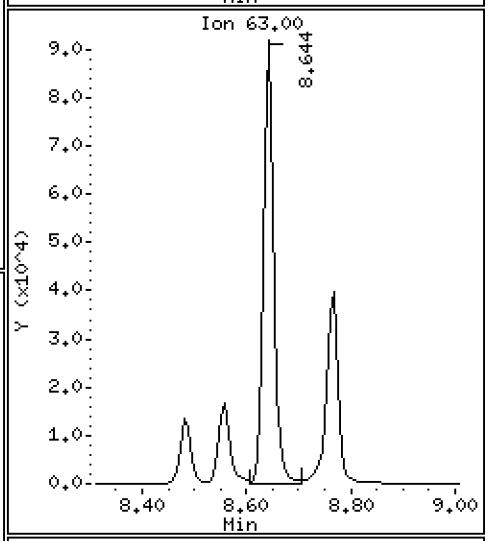


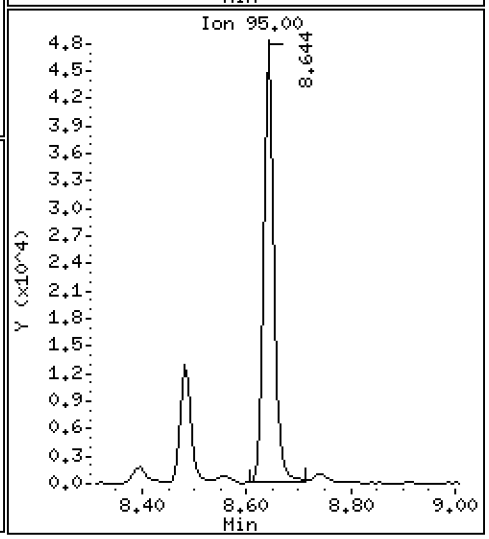












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212318.D

Date : 22-MAR-2023 04:03

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-CCV1

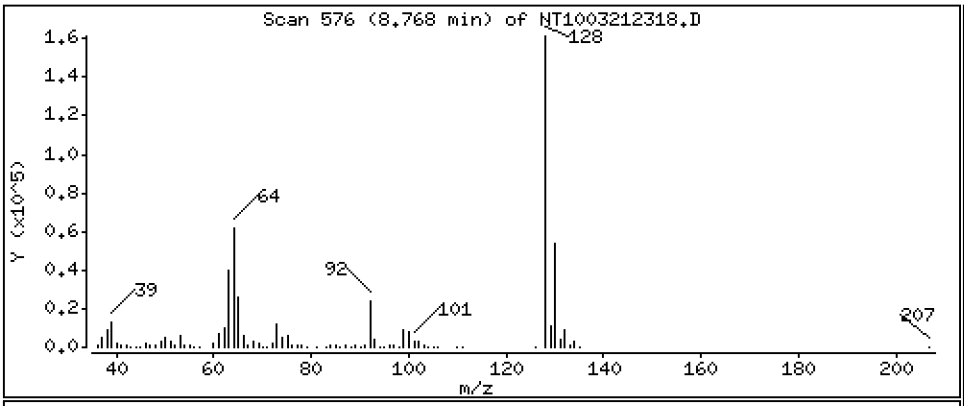
Operator: VTS

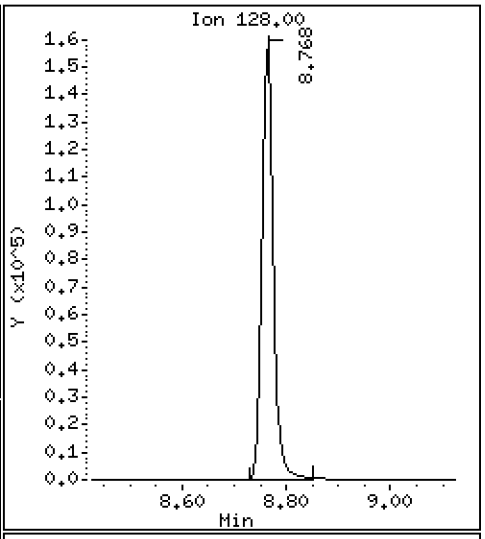
Column phase: ZB-5msi

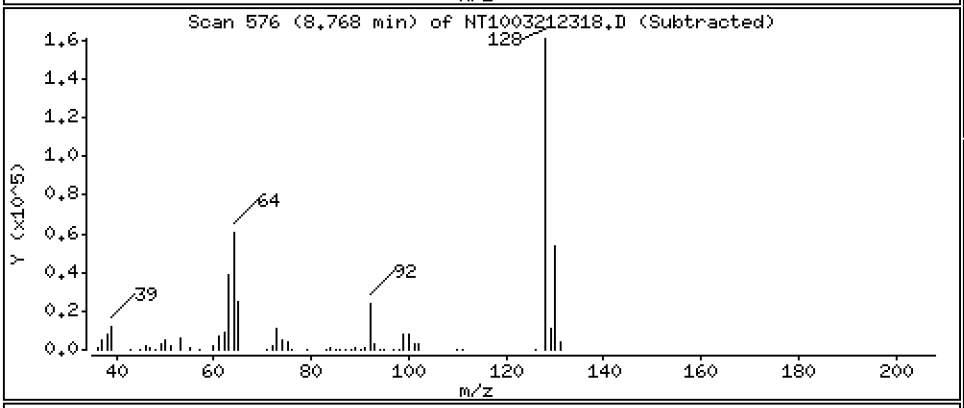
Column diameter: 0.25

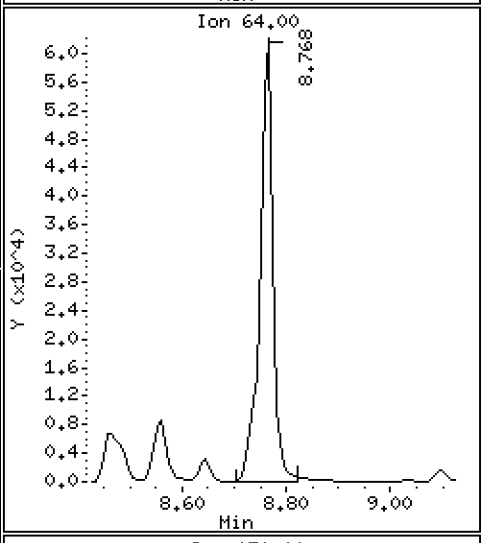
6 2-Chlorophenol

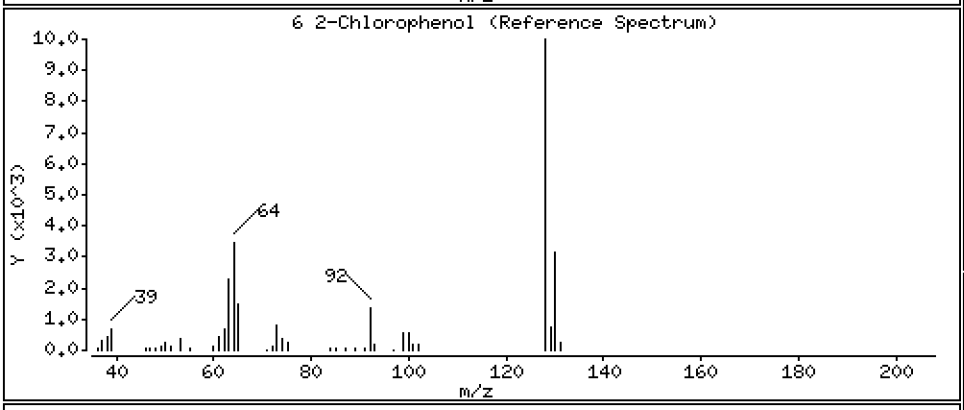
Concentration: 4.814 ug/mL

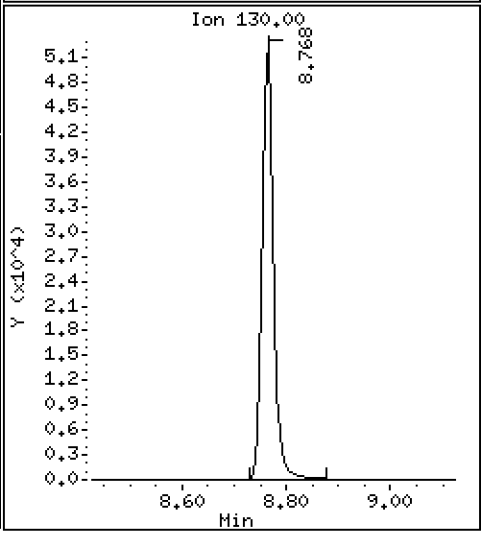


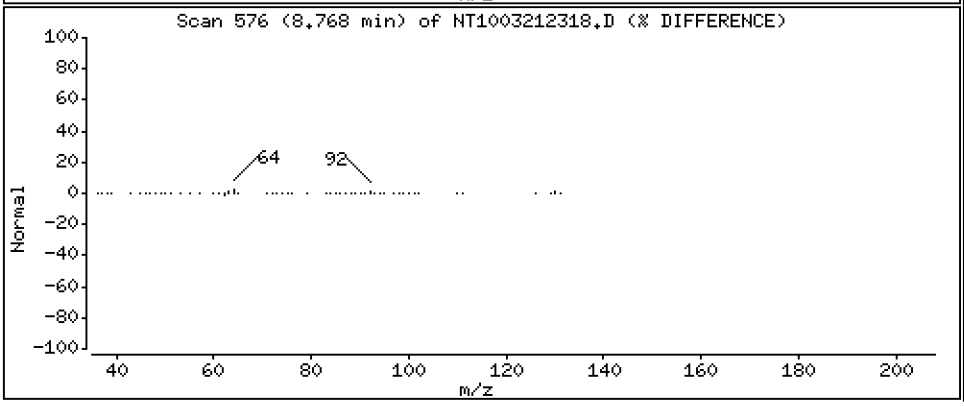












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Date : 22-MAR-2023 04:03

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-CCV1

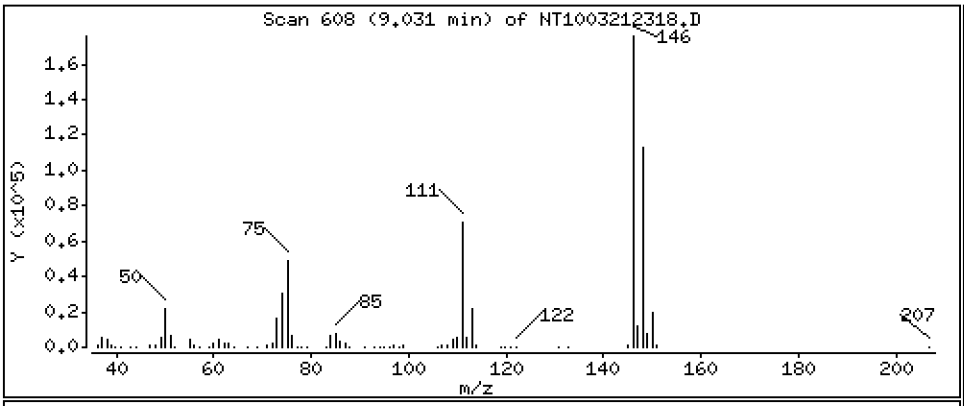
Operator: VTS

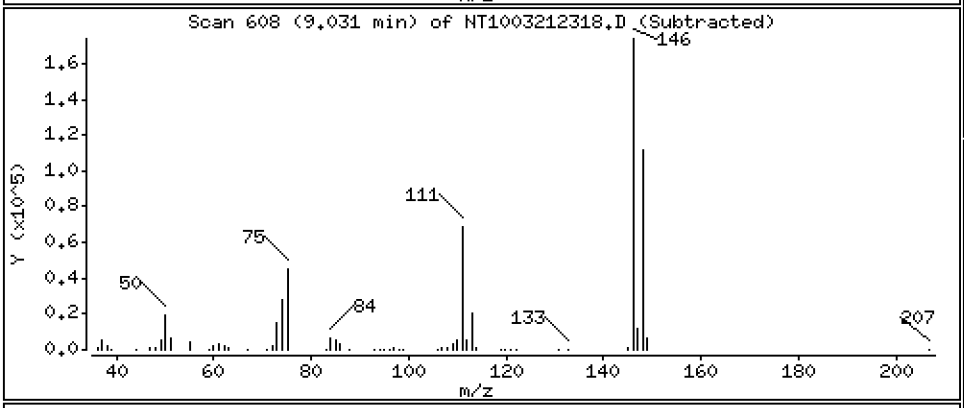
Column phase: ZB-5msi

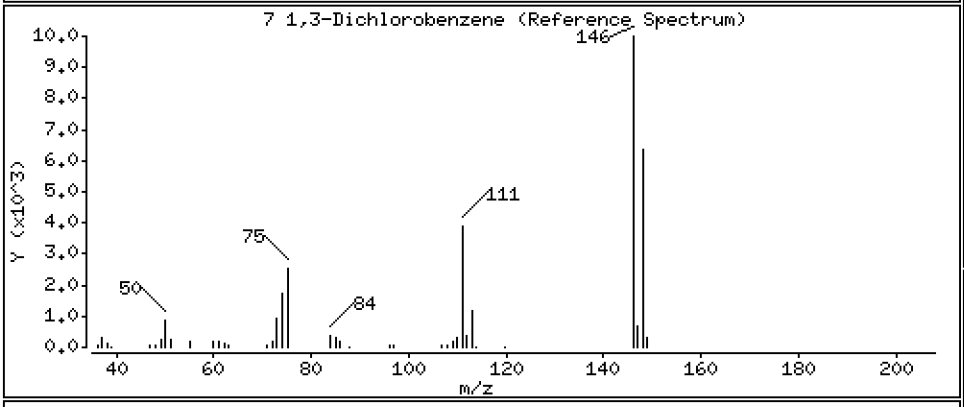
Column diameter: 0.25

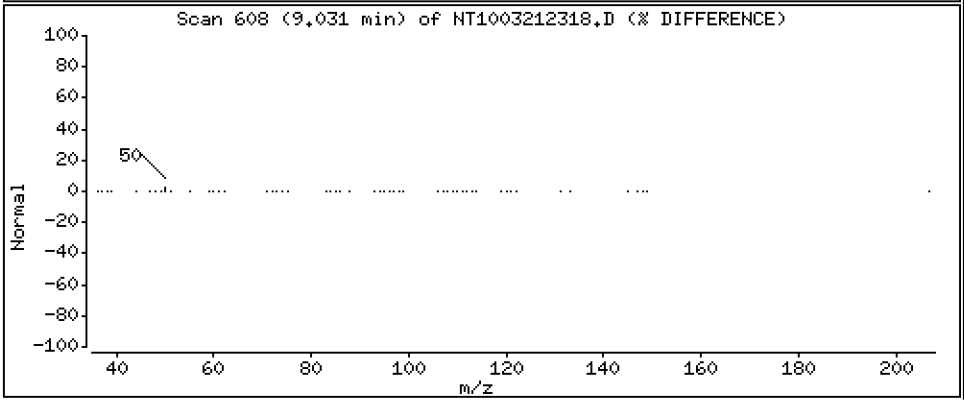
7 1,3-Dichlorobenzene

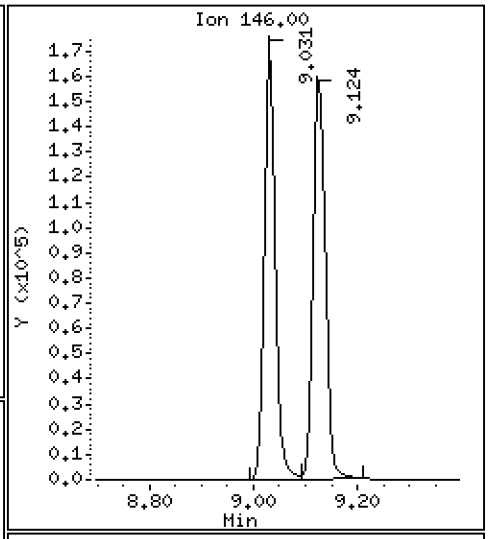
Concentration: 4.799 ug/mL

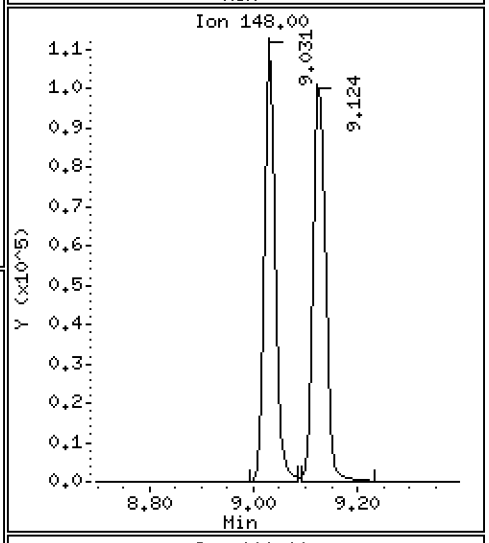


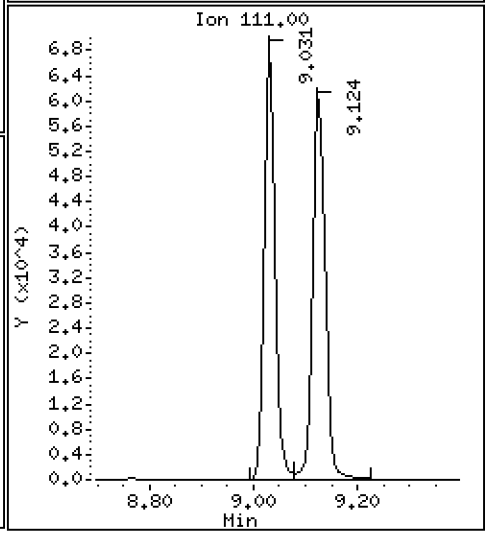












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Date : 22-MAR-2023 04:03

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-CCV1

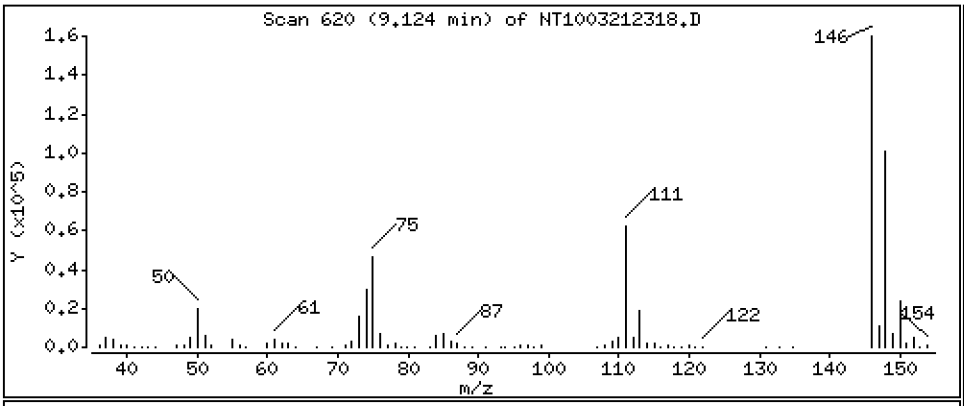
Operator: VTS

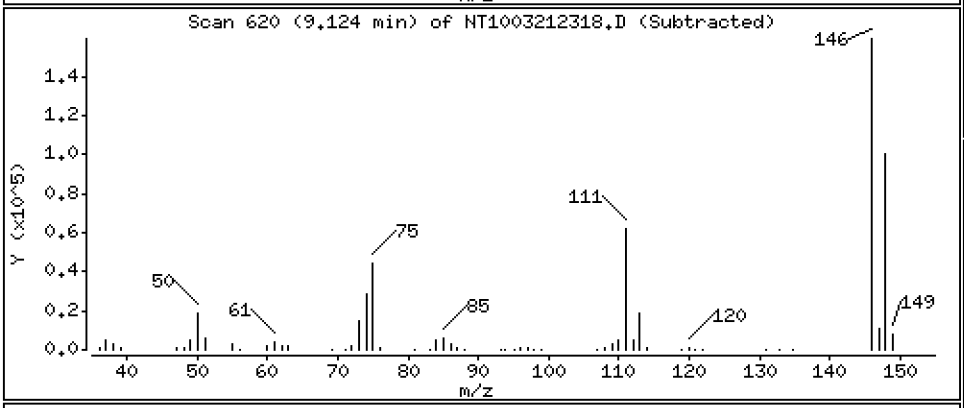
Column phase: ZB-5msi

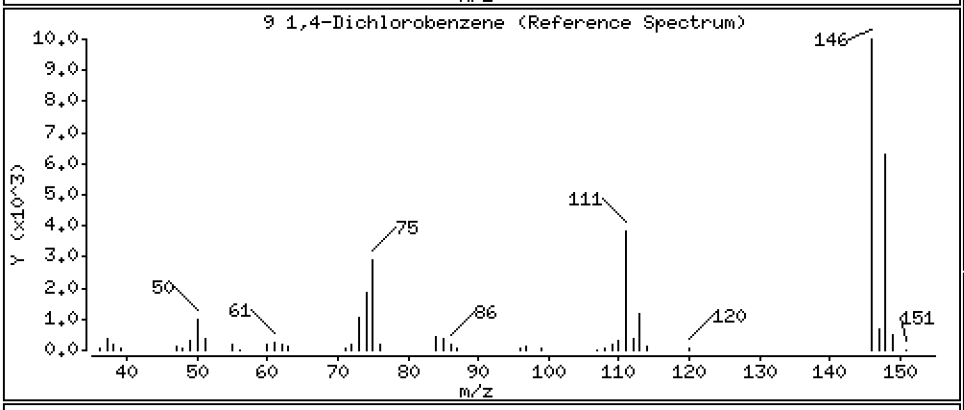
Column diameter: 0.25

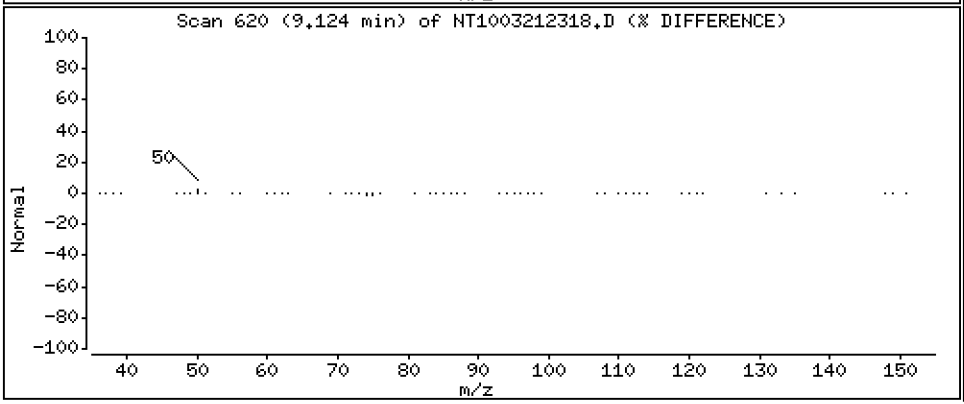
9 1,4-Dichlorobenzene

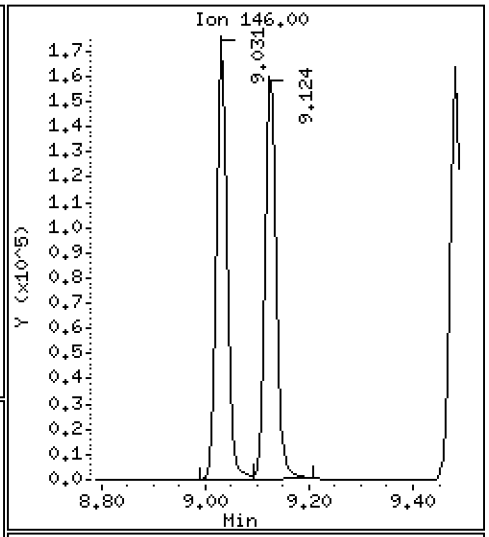
Concentration: 4.781 ug/mL

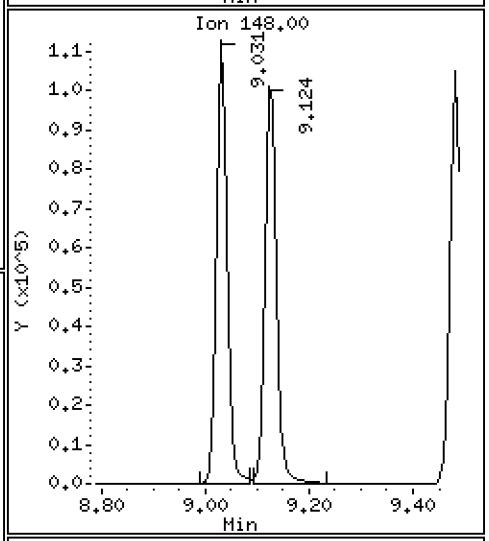


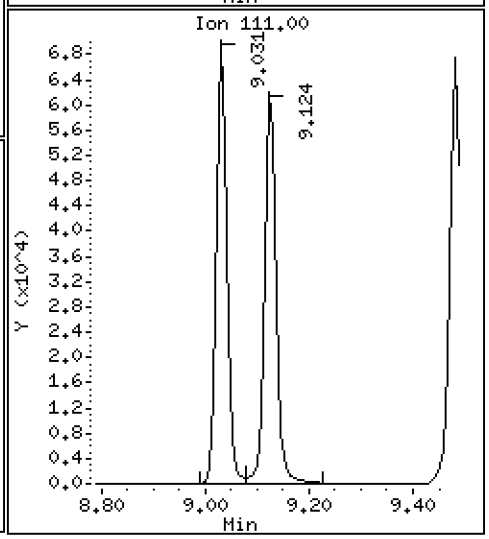












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Date : 22-MAR-2023 04:03

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-CCV1

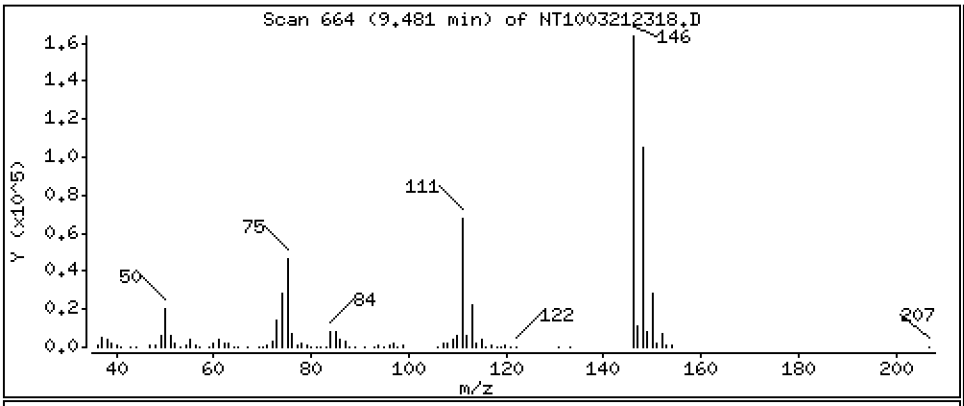
Operator: VTS

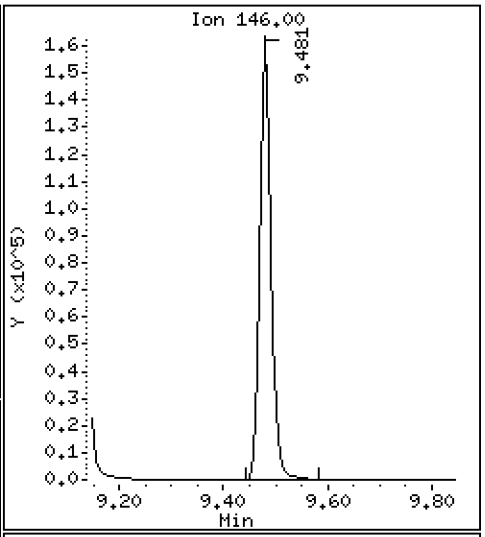
Column phase: ZB-5msi

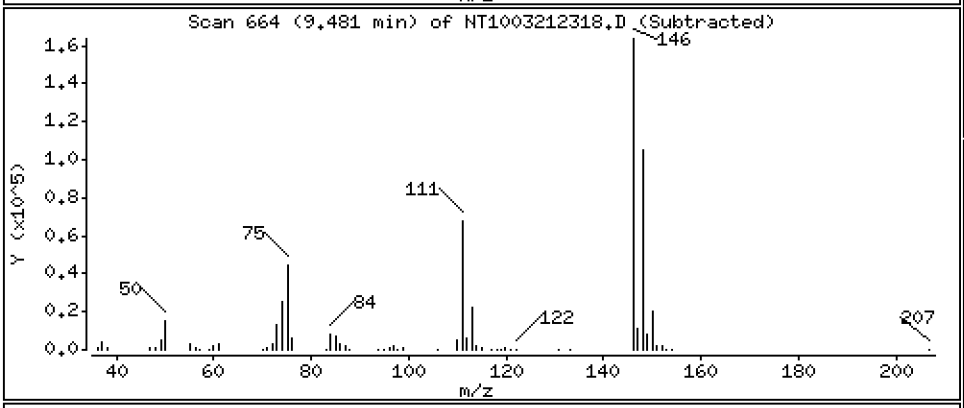
Column diameter: 0.25

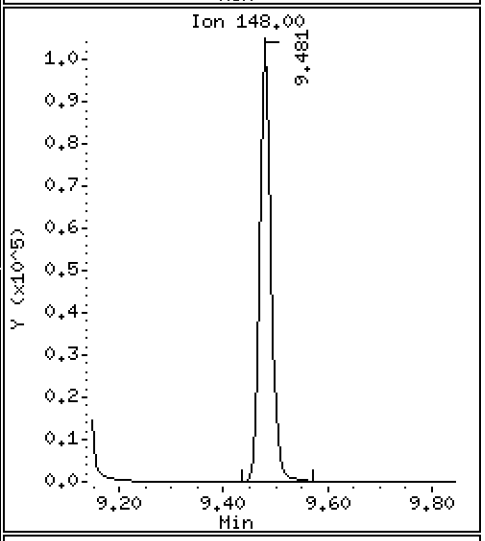
12 1,2-Dichlorobenzene

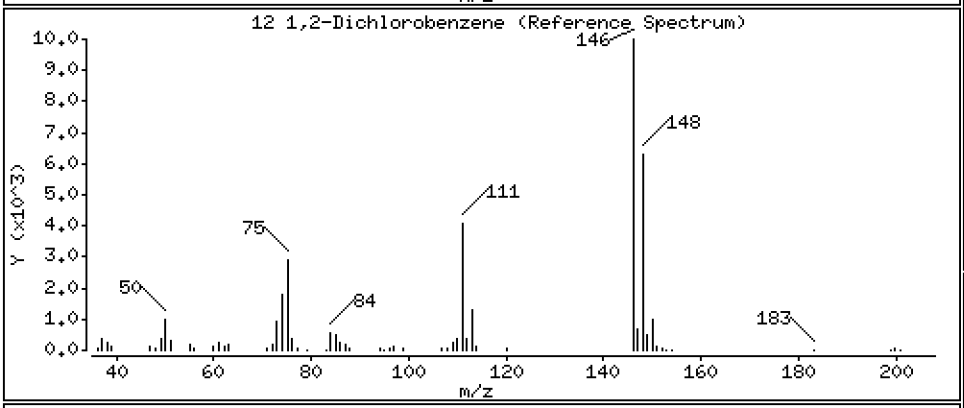
Concentration: 4.754 ug/mL

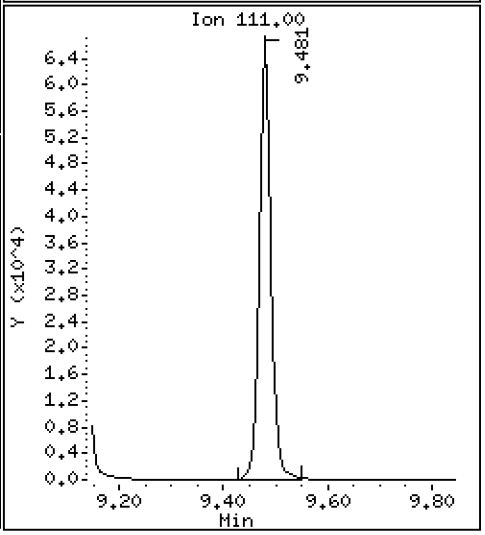


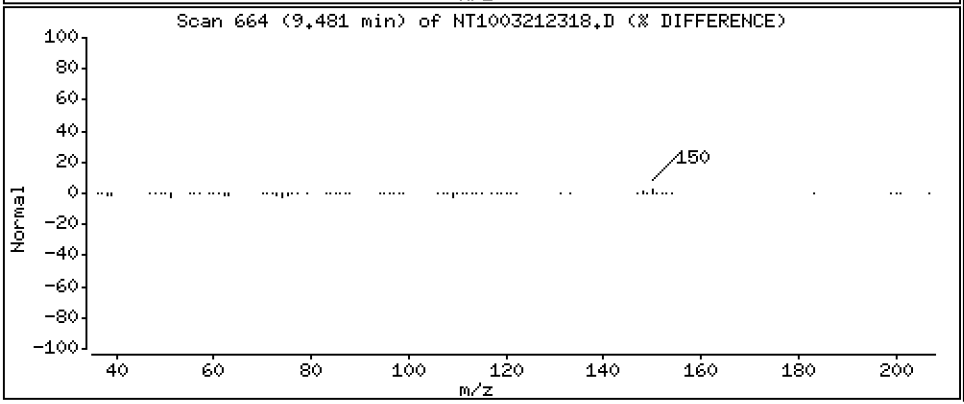












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Date : 22-MAR-2023 04:03

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-CCV1

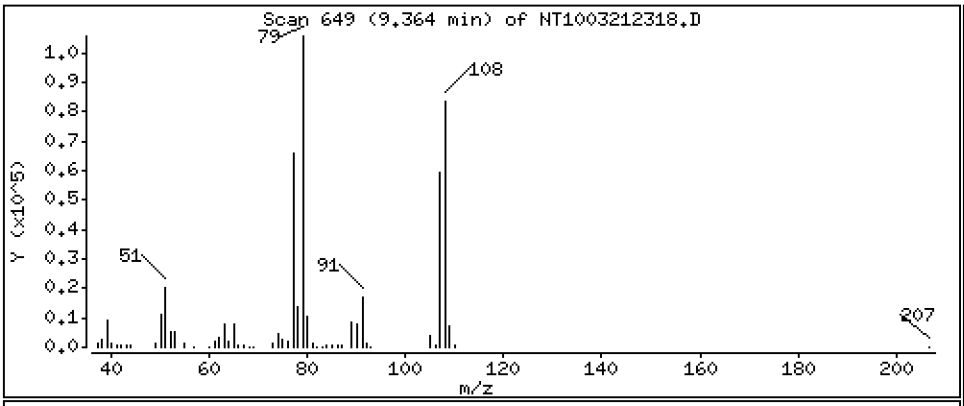
Operator: VTS

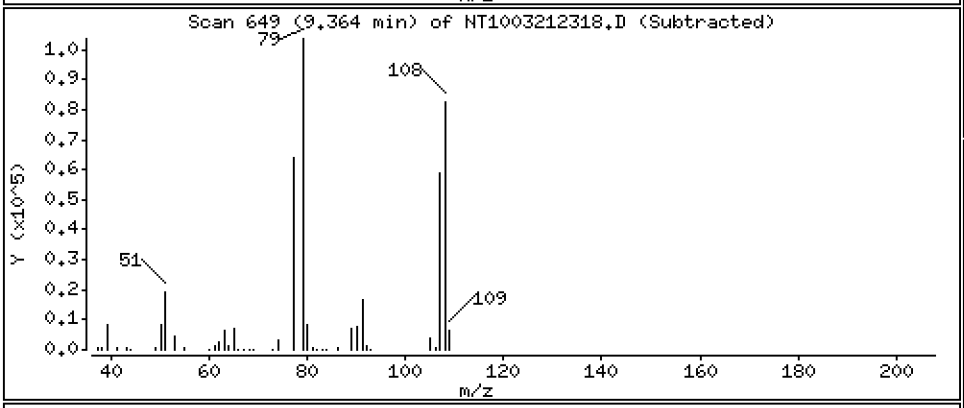
Column phase: ZB-5msi

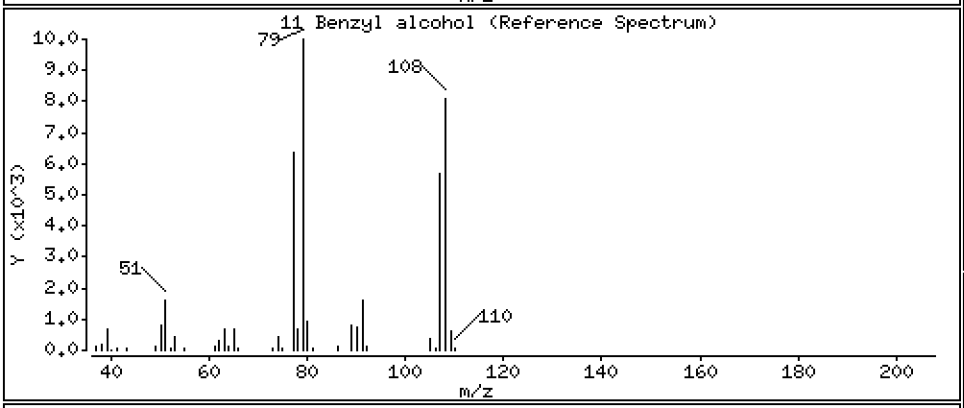
Column diameter: 0.25

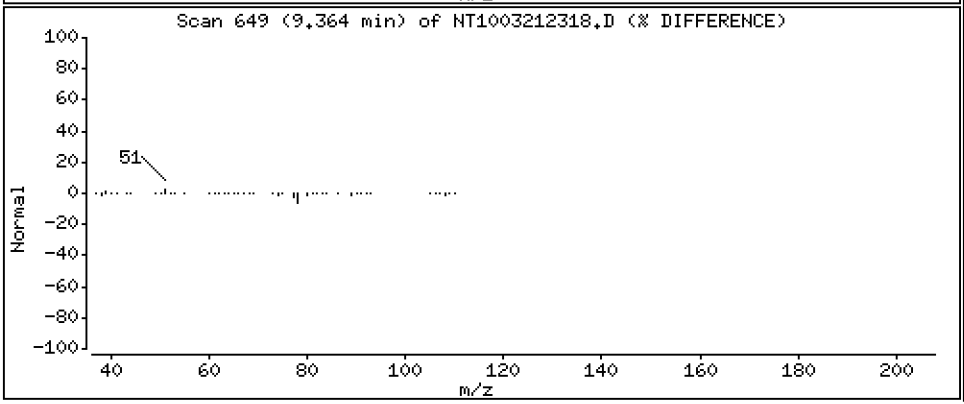
11 Benzyl alcohol

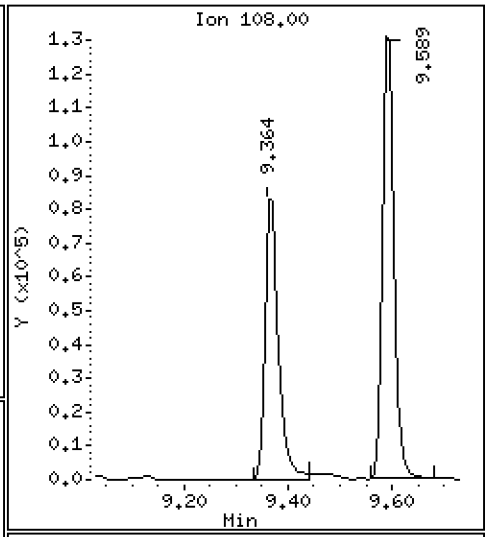
Concentration: 5.228 ug/mL

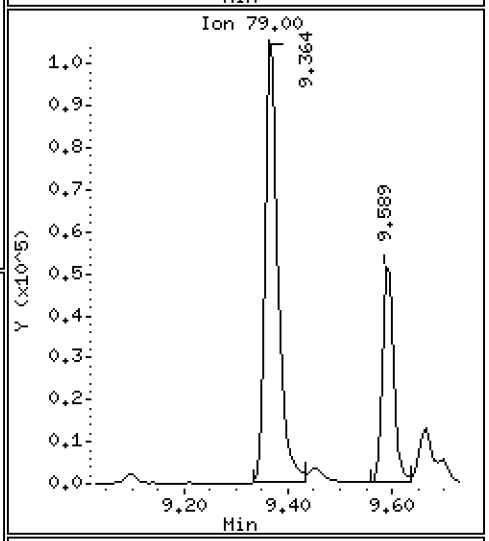


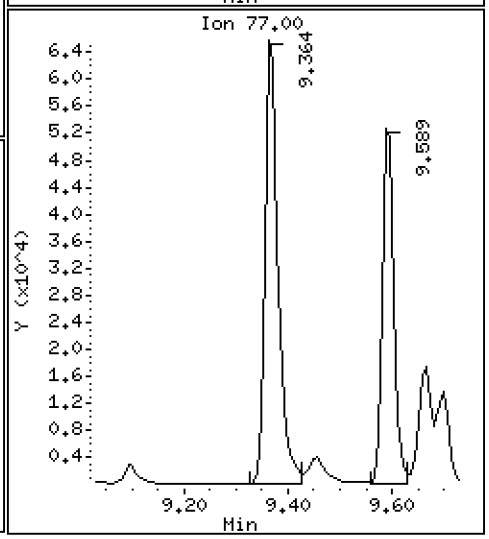












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Date : 22-MAR-2023 04:03

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-CCV1

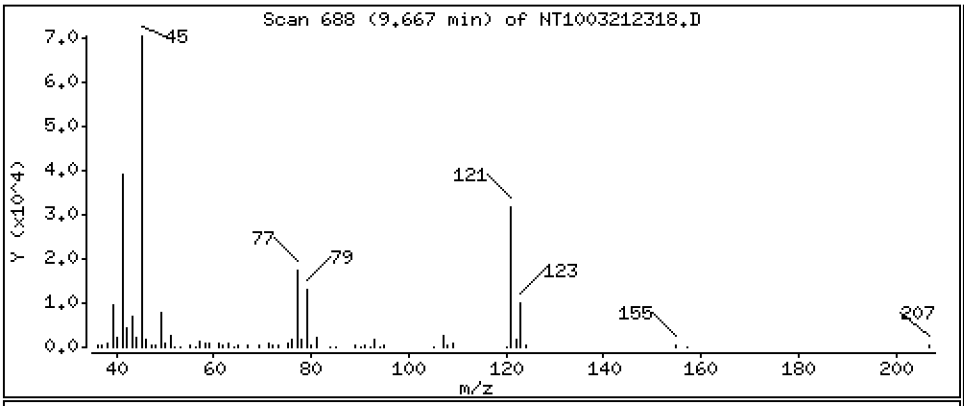
Operator: VTS

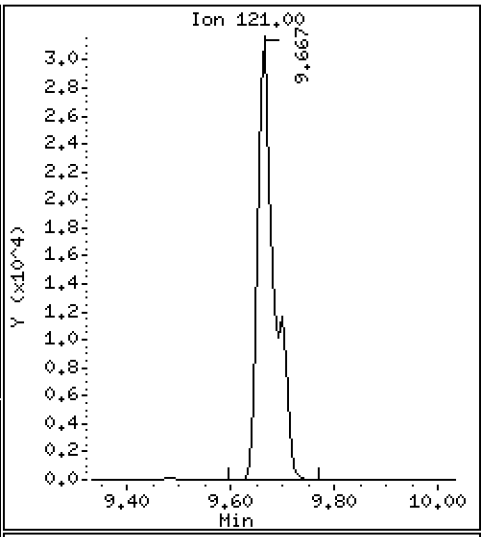
Column phase: ZB-5msi

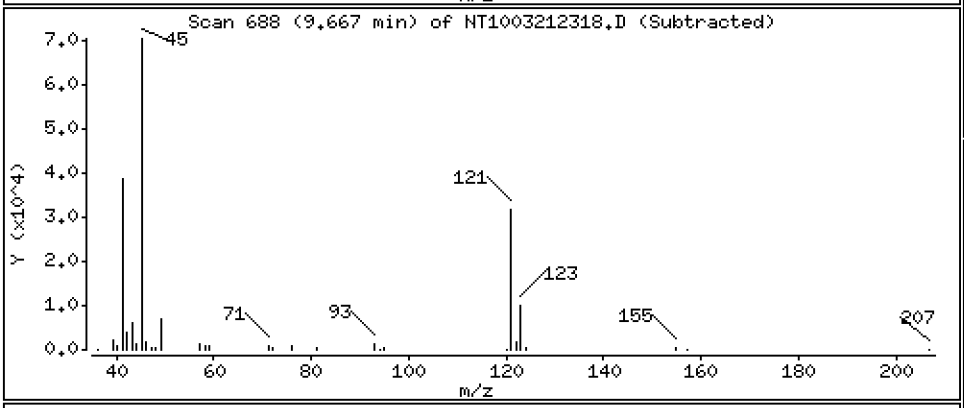
Column diameter: 0.25

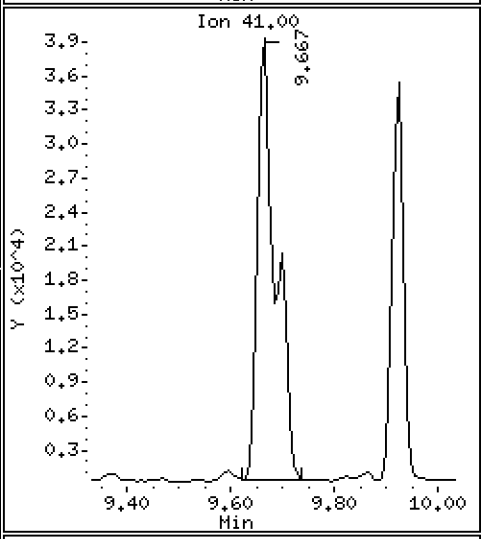
14 2,2'-oxybis(1-Chloropropane)

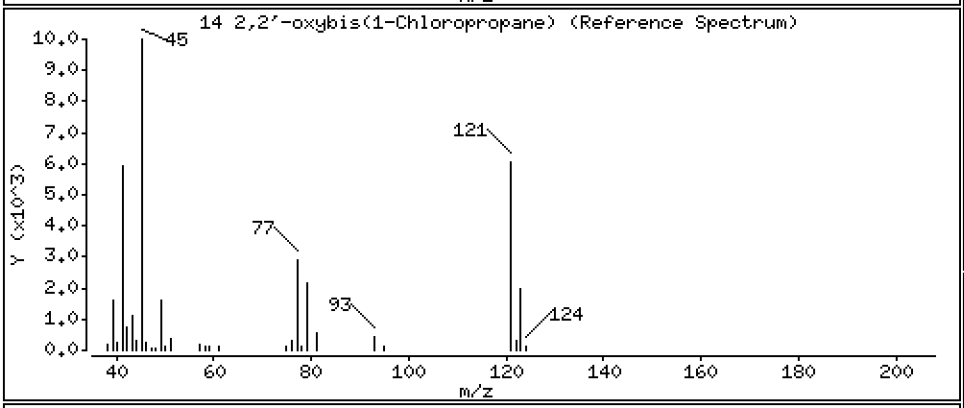
Concentration: 4.659 ug/mL

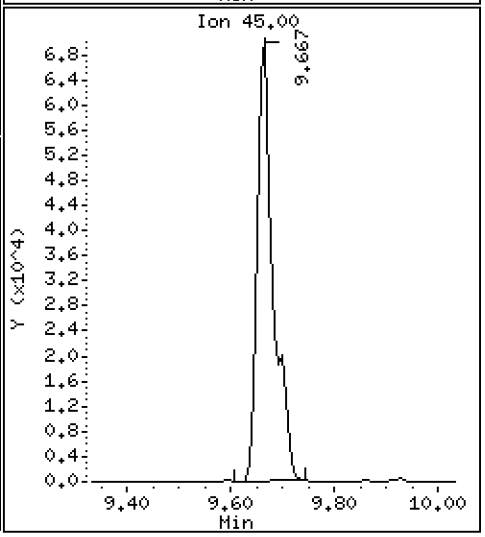


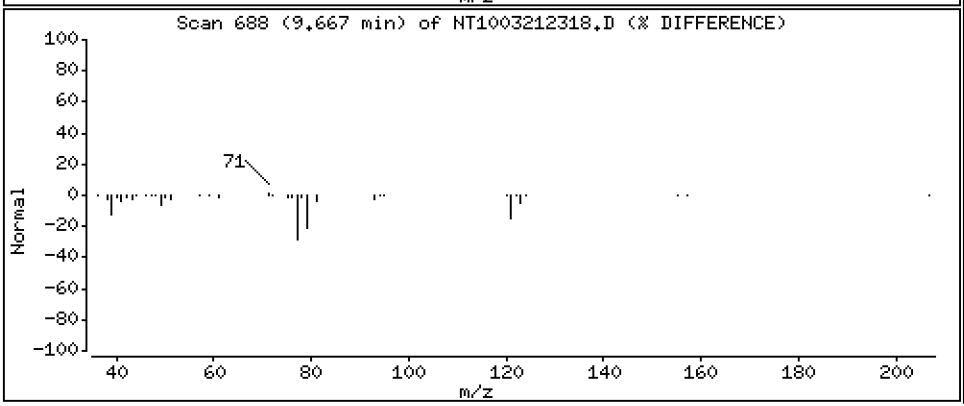












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Date : 22-MAR-2023 04:03

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-CCV1

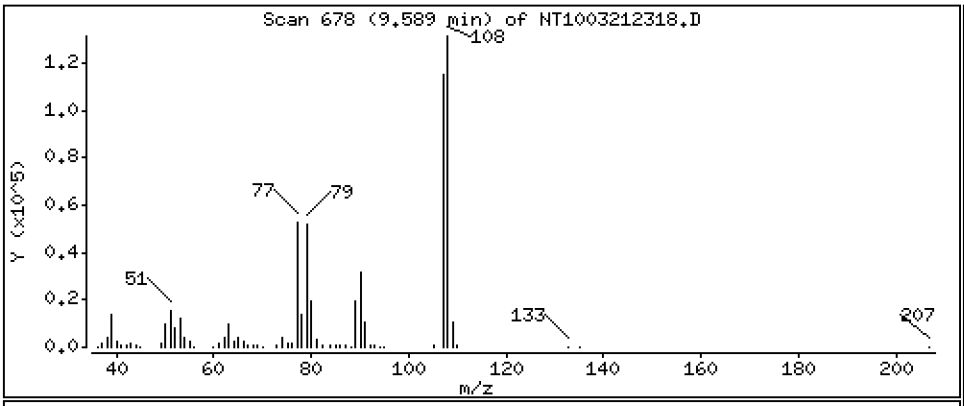
Operator: VTS

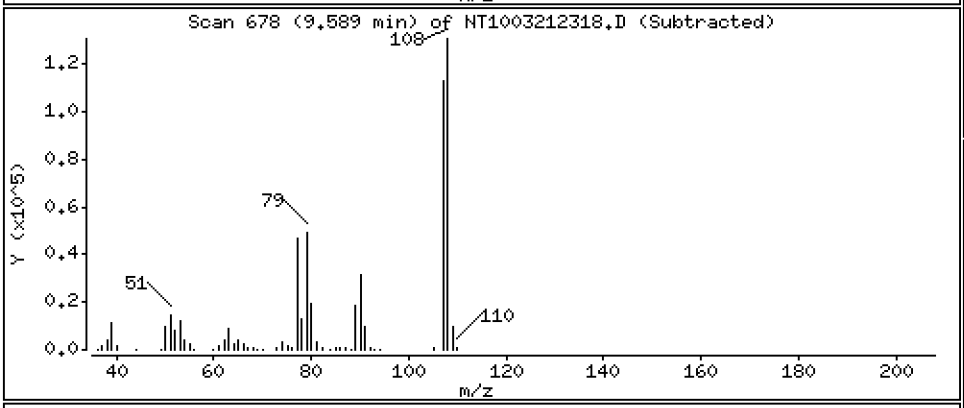
Column phase: ZB-5msi

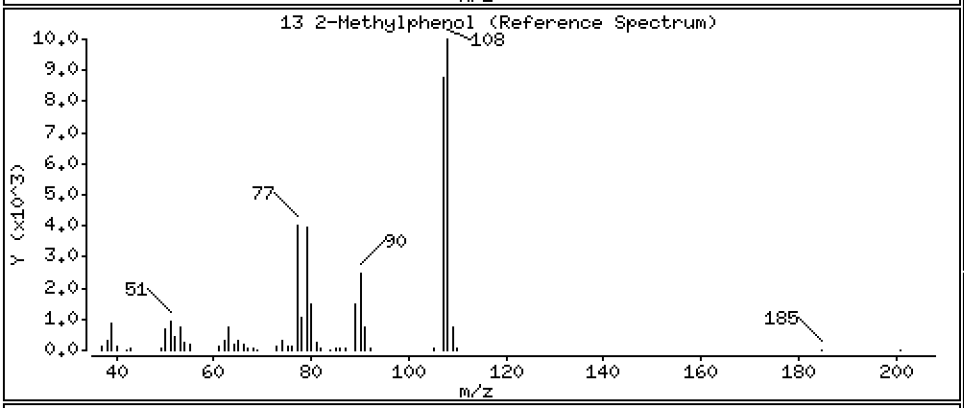
Column diameter: 0.25

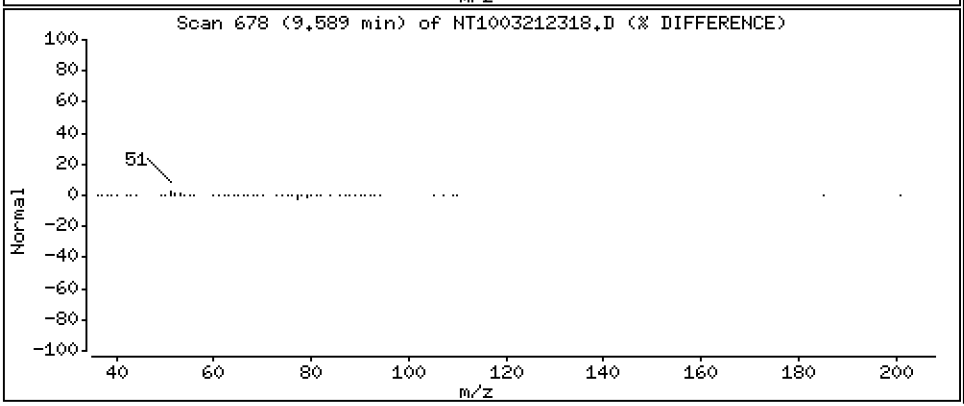
13 2-Methylphenol

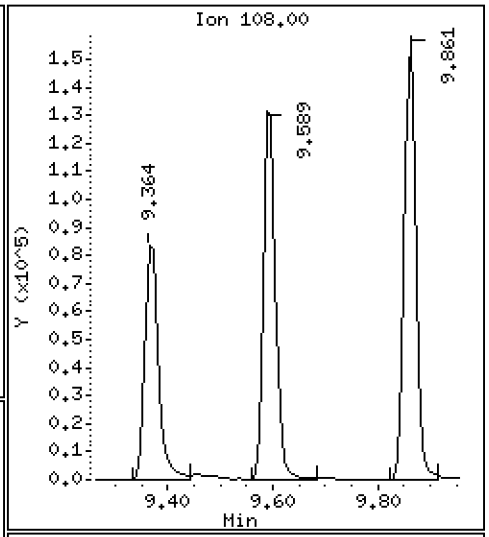
Concentration: 4.782 ug/mL

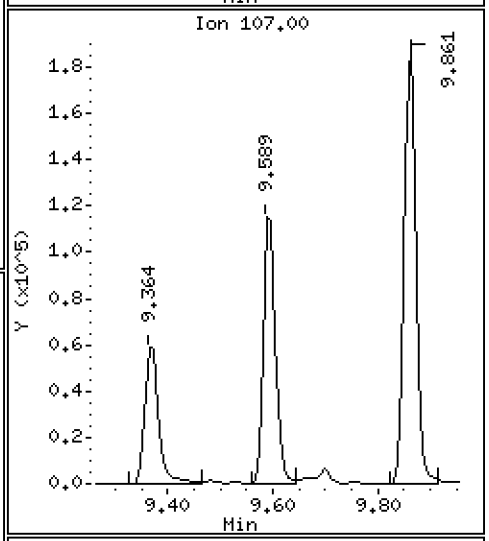


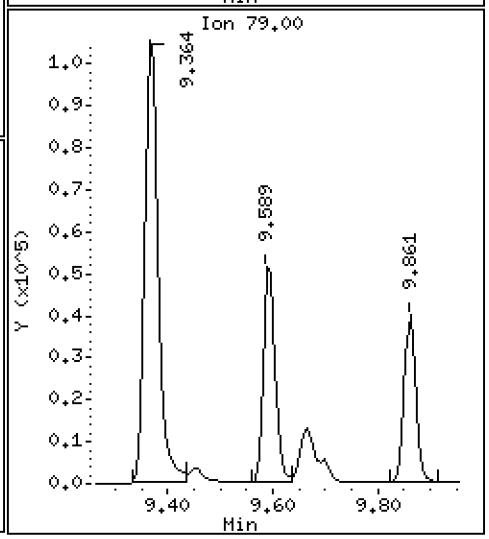












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Date : 22-MAR-2023 04:03

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-CCV1

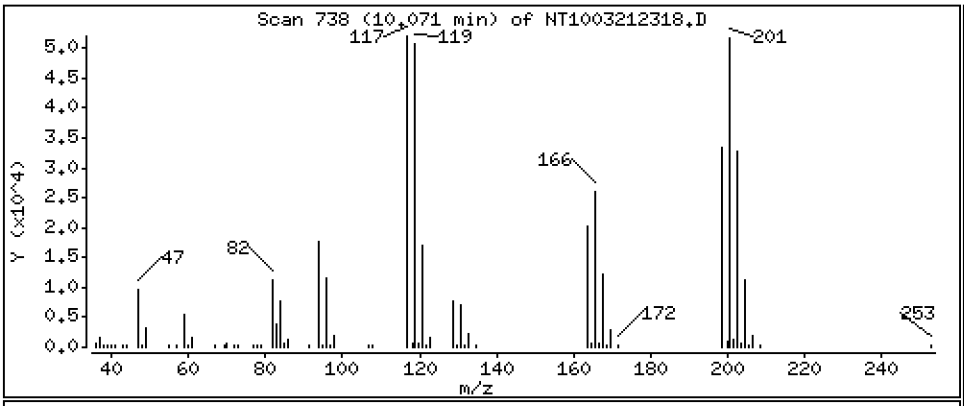
Operator: VTS

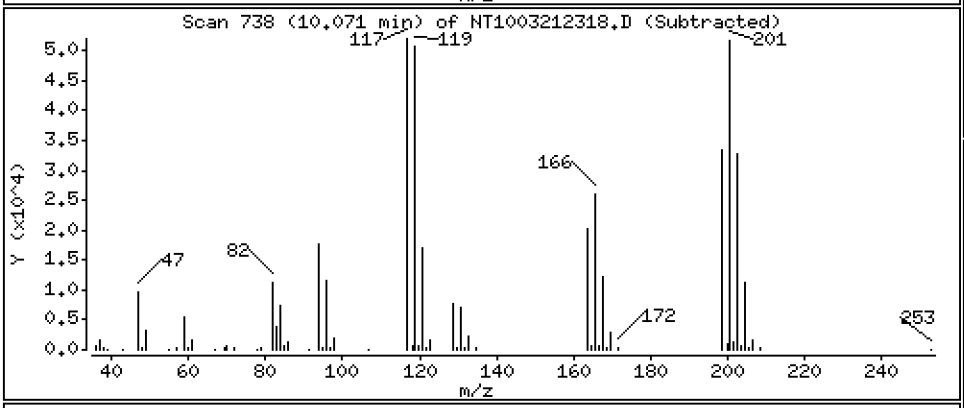
Column phase: ZB-5msi

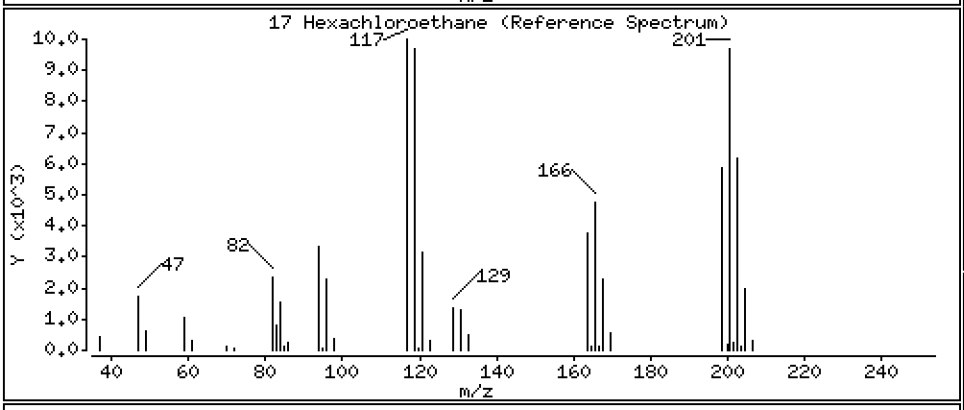
Column diameter: 0.25

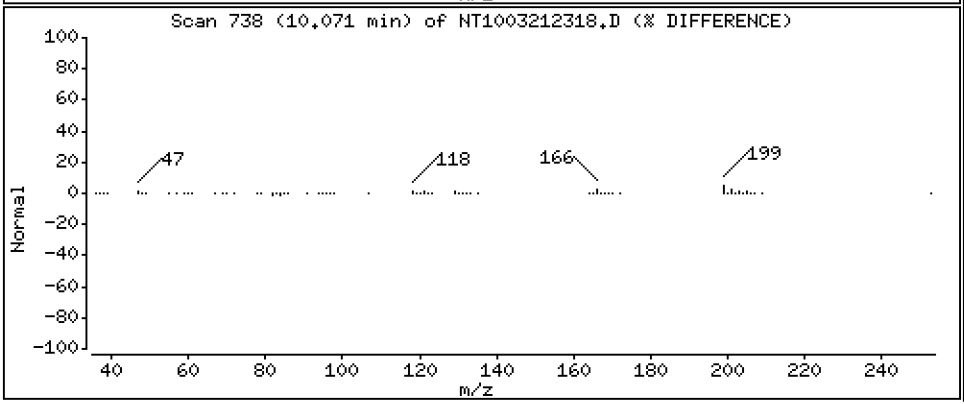
17 Hexachloroethane

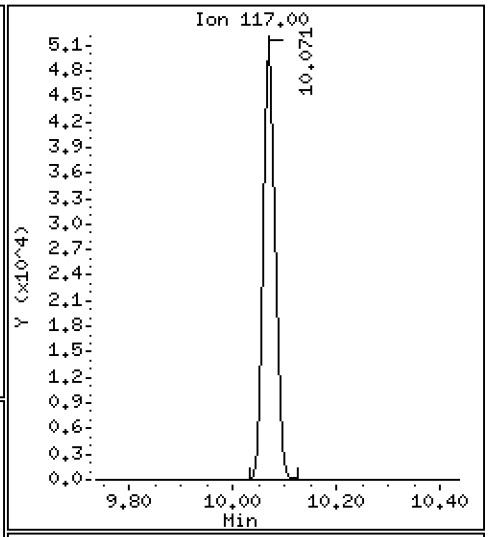
Concentration: 3.719 ug/mL

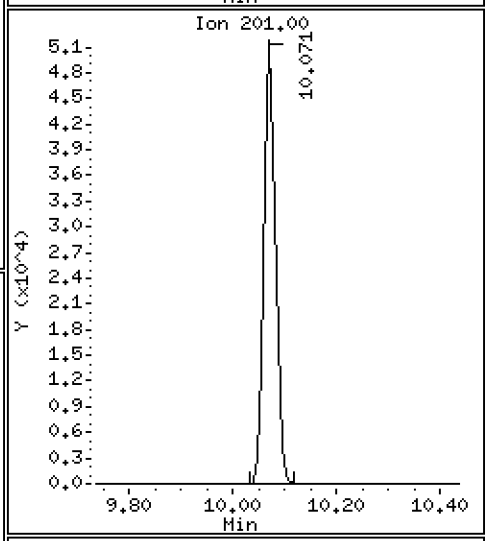


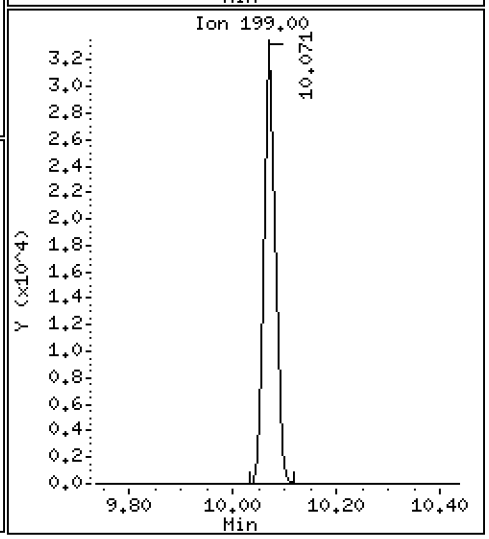












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212318.D

Date : 22-MAR-2023 04:03

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-CCV1

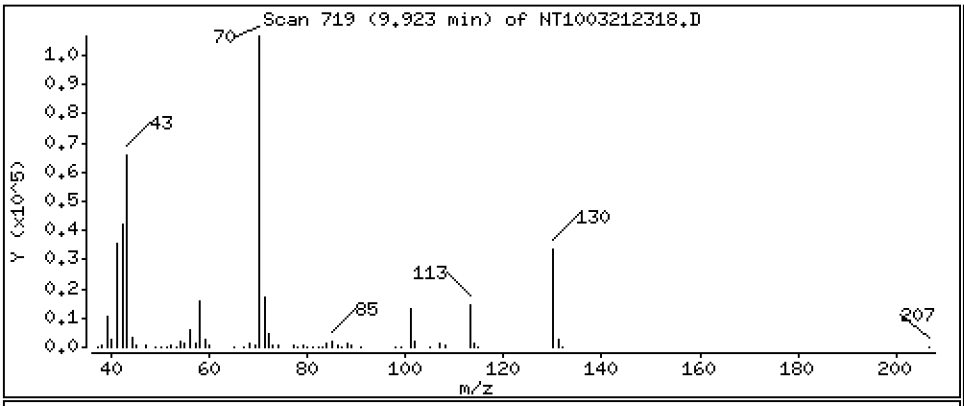
Operator: VTS

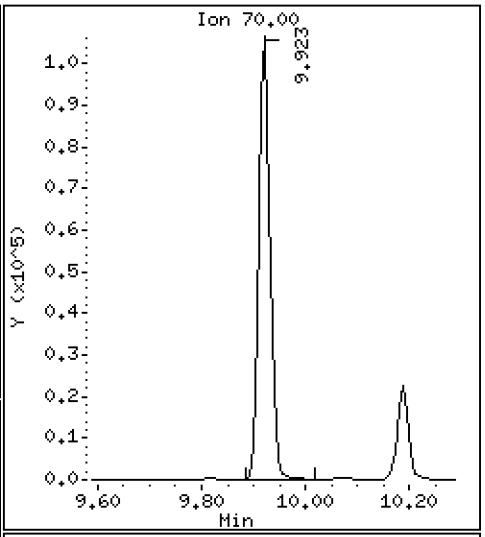
Column phase: ZB-5msi

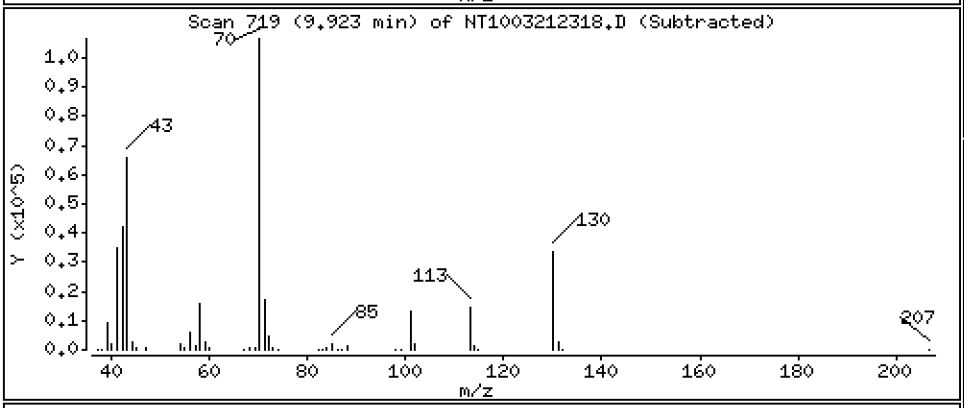
Column diameter: 0.25

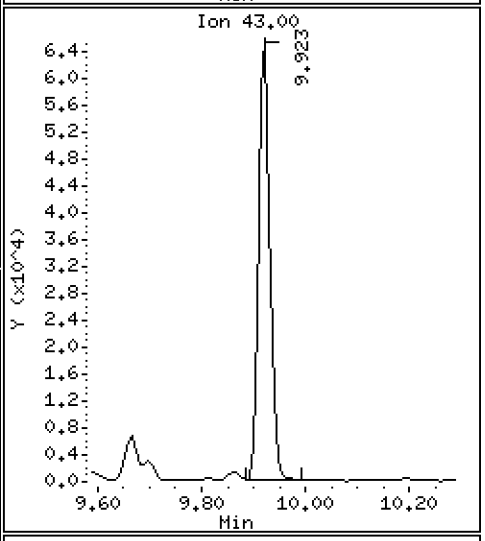
16 N-Nitroso-di-n-propylamine

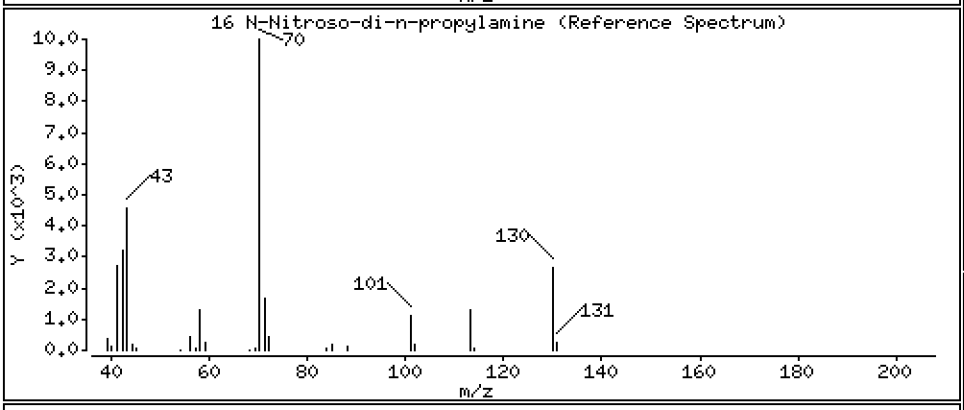
Concentration: 4.598 ug/mL

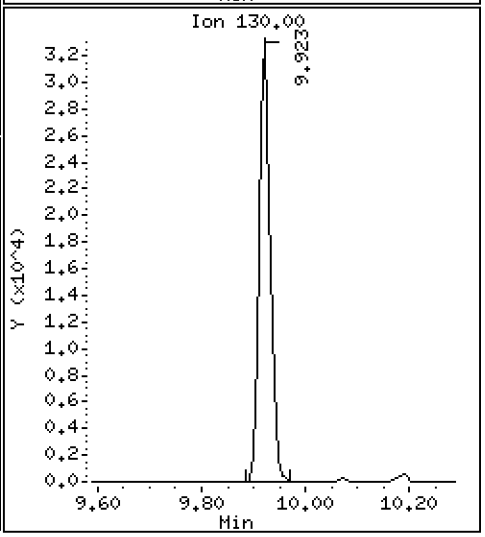


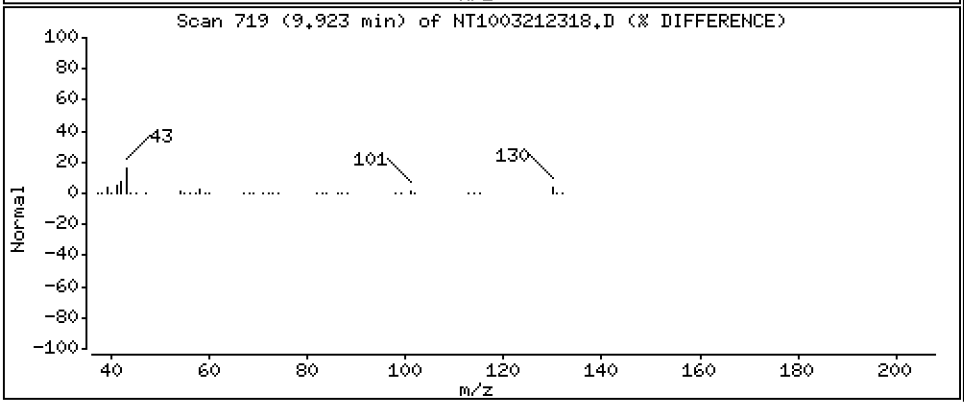












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Date : 22-MAR-2023 04:03

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-CCV1

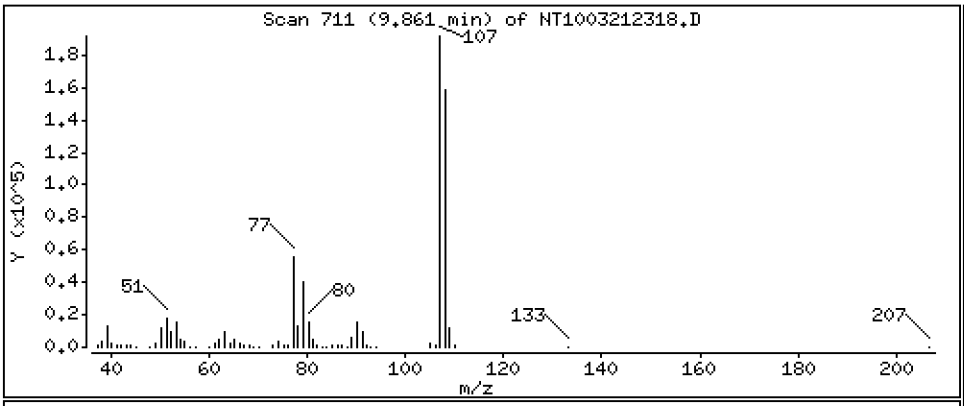
Operator: VTS

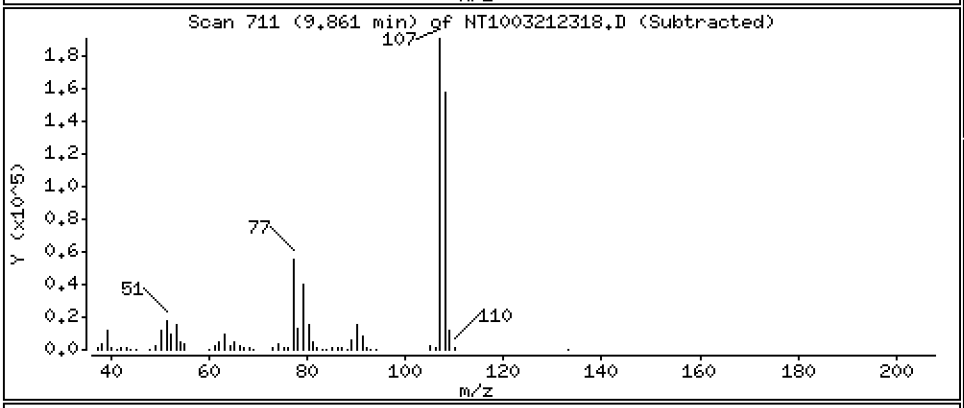
Column phase: ZB-5msi

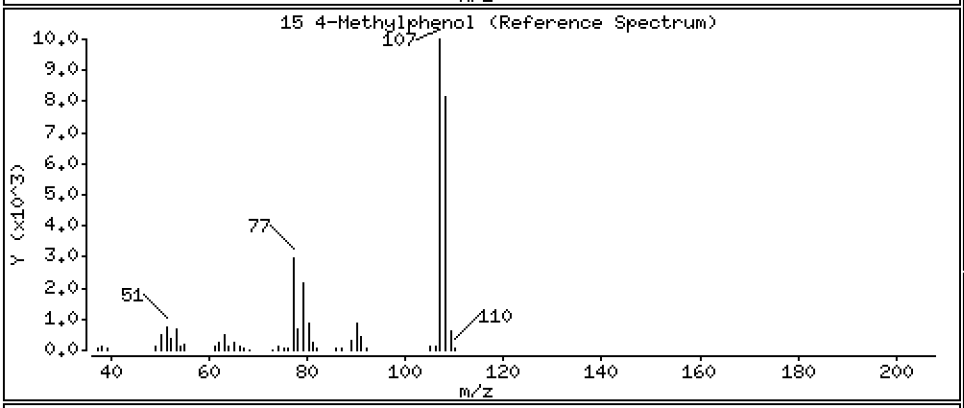
Column diameter: 0.25

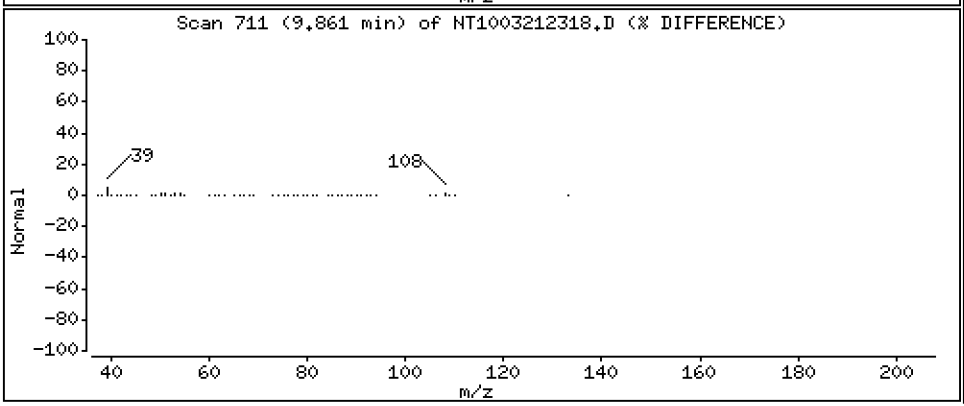
15 4-Methylphenol

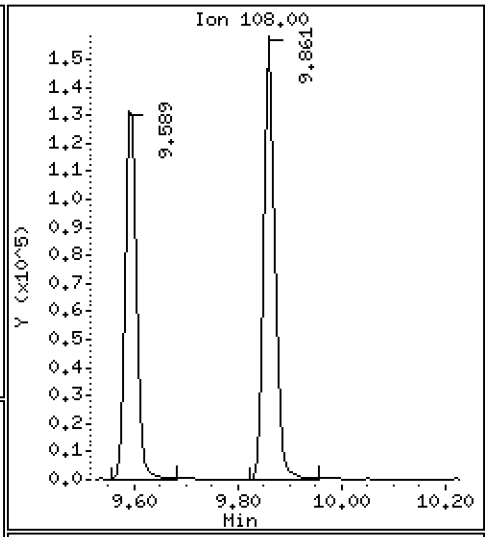
Concentration: 4.926 ug/mL

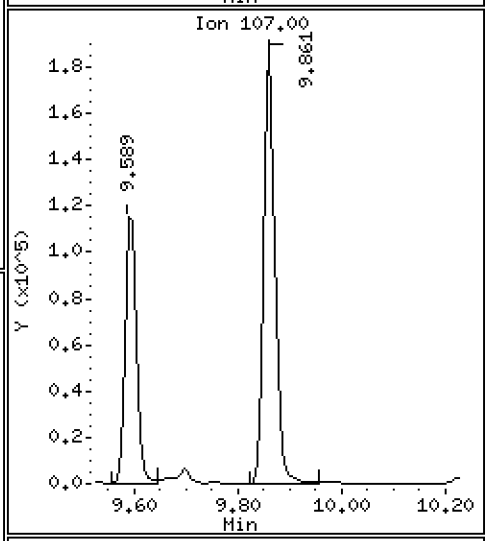


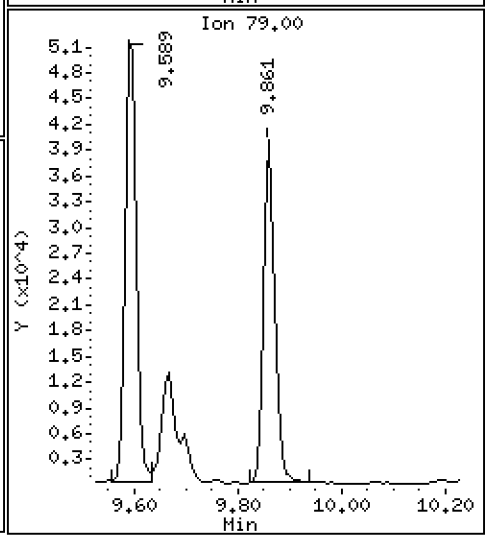












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Date : 22-MAR-2023 04:03

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-CCV1

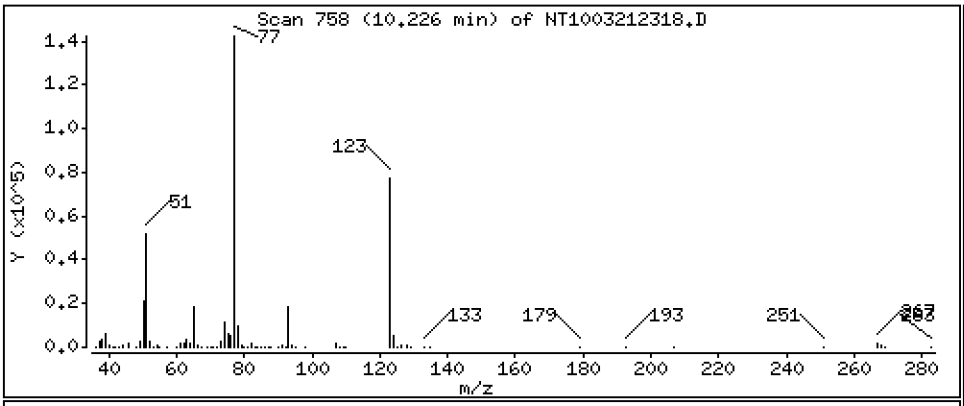
Operator: VTS

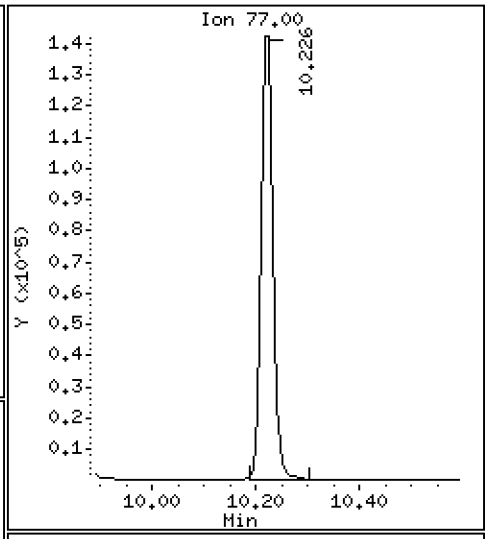
Column phase: ZB-5msi

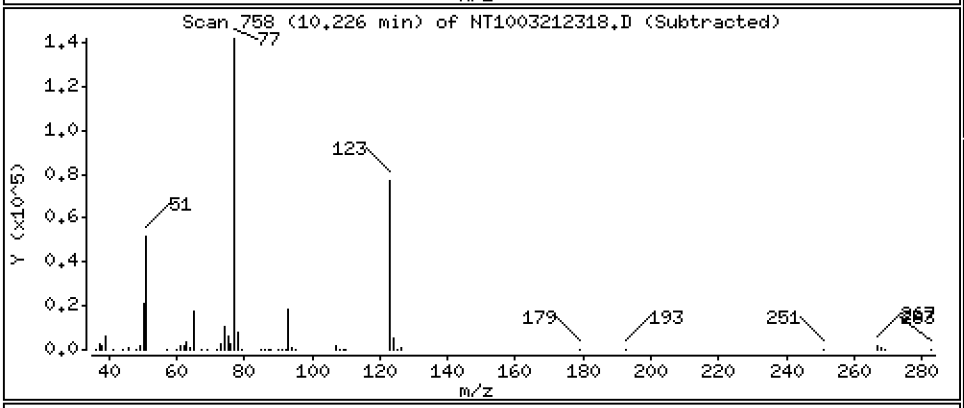
Column diameter: 0.25

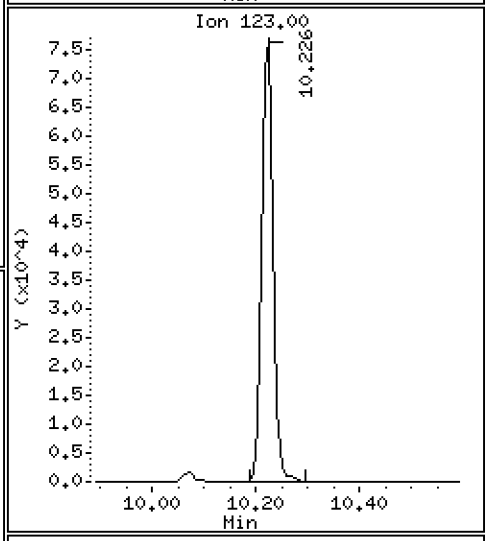
19 Nitrobenzene

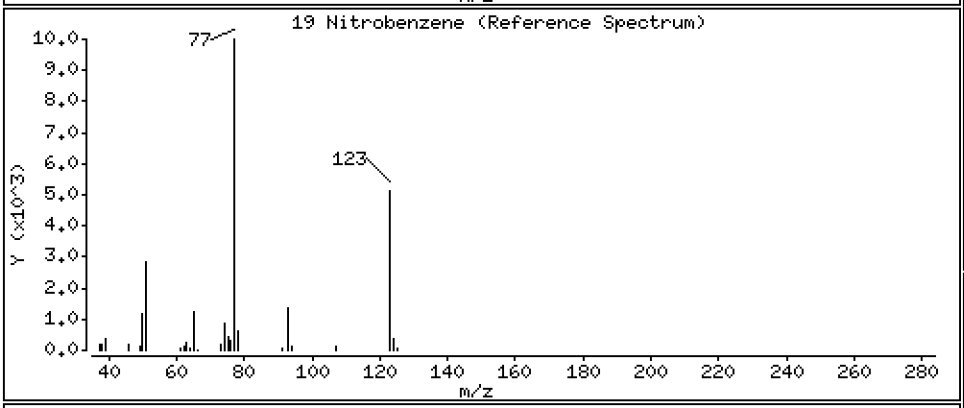
Concentration: 4.454 ug/mL

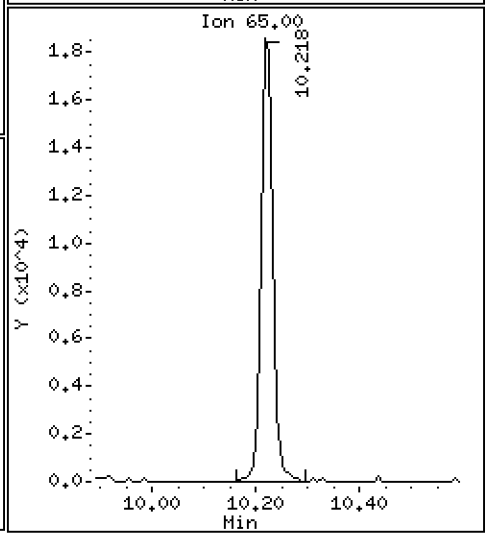


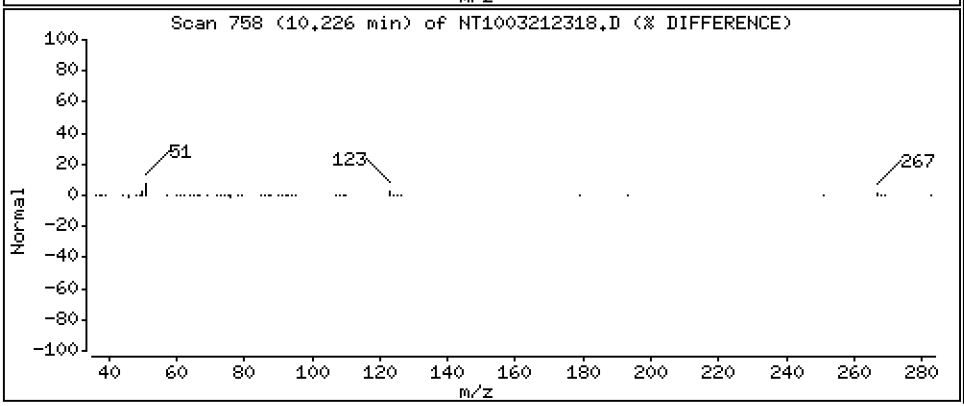












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Date : 22-MAR-2023 04:03

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-CCV1

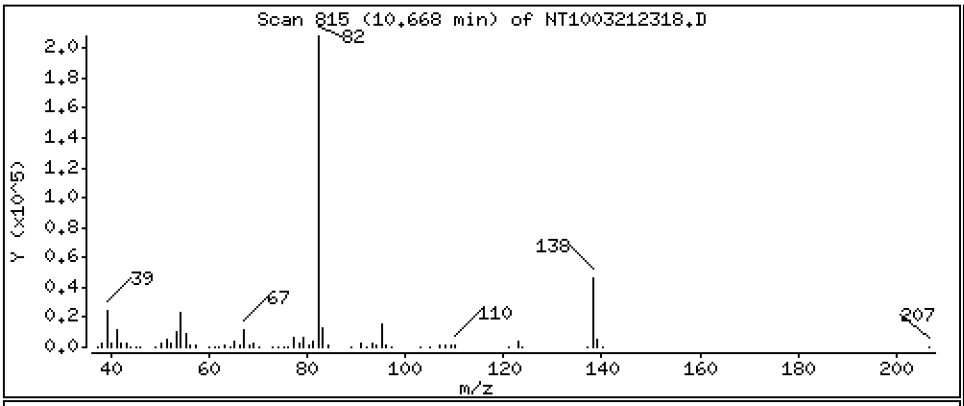
Operator: VTS

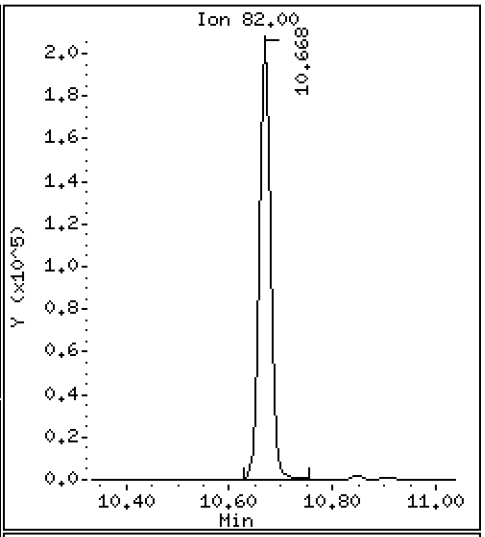
Column phase: ZB-5msi

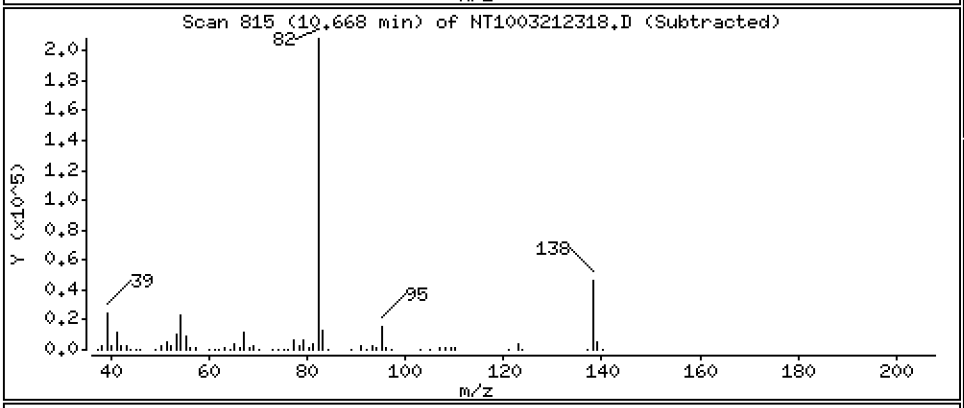
Column diameter: 0.25

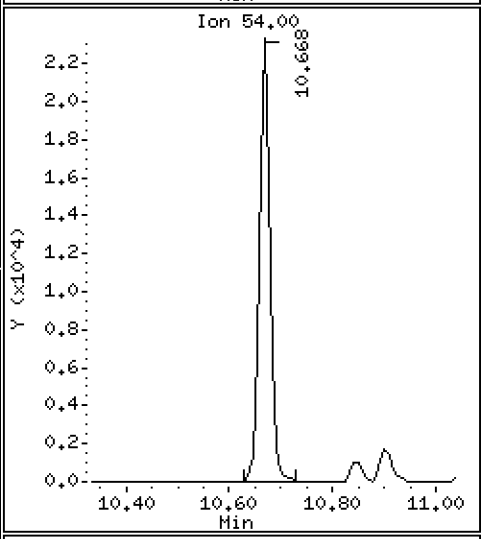
20 Isophorone

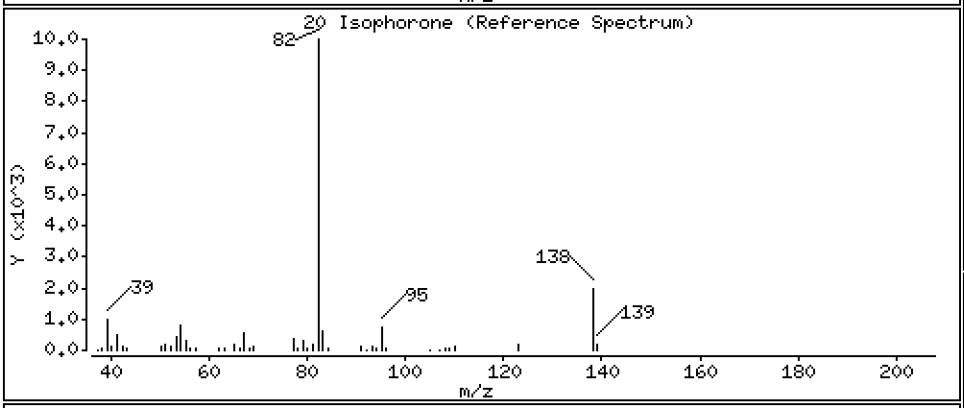
Concentration: 4.798 ug/mL

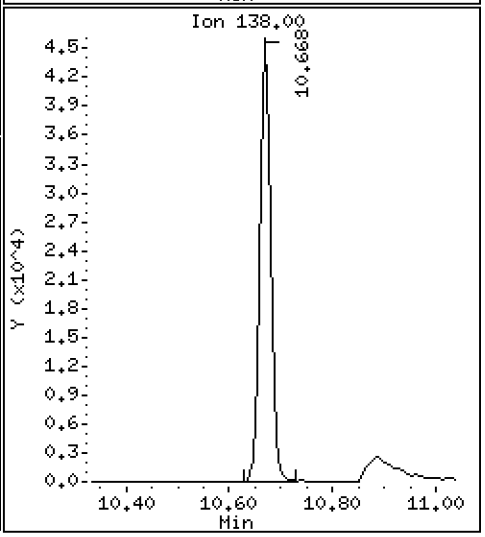


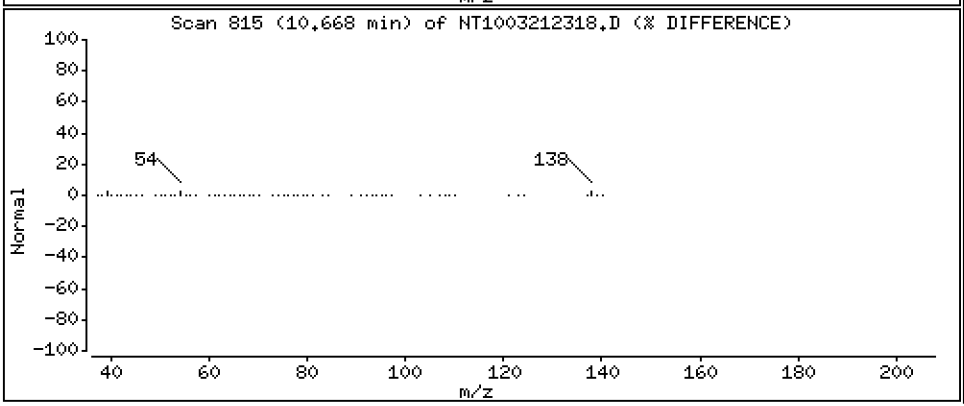












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Date : 22-MAR-2023 04:03

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-CCV1

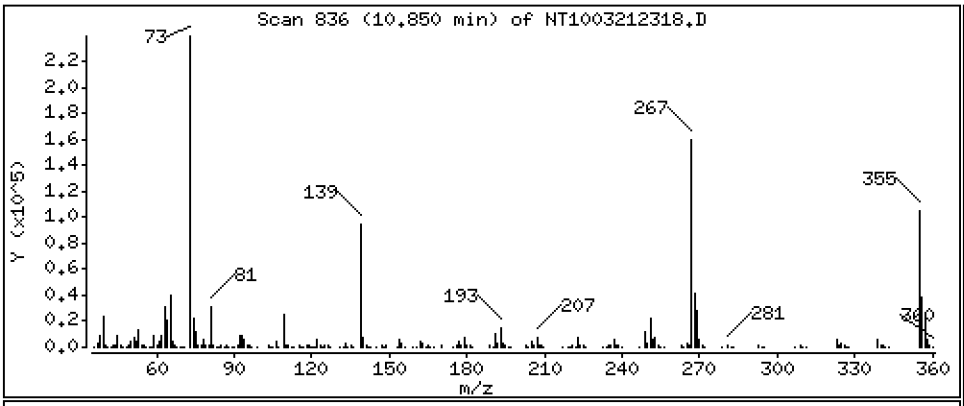
Operator: VTS

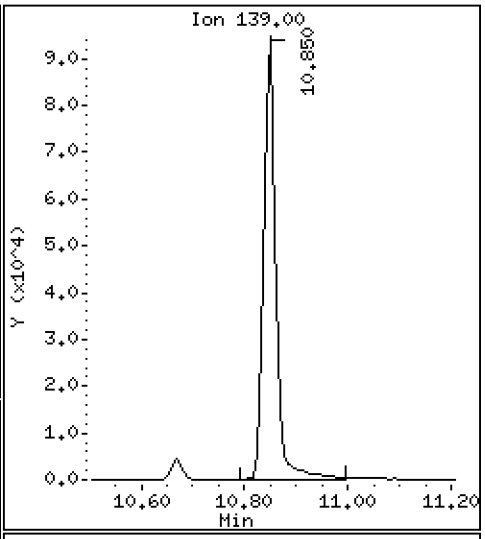
Column phase: ZB-5msi

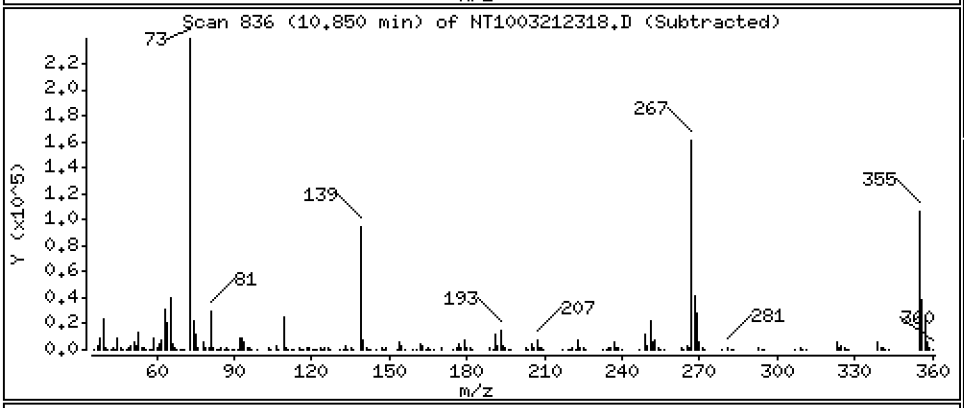
Column diameter: 0.25

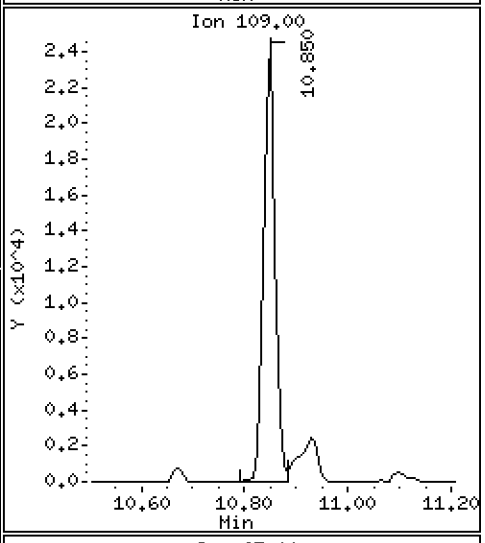
21 2-Nitrophenol

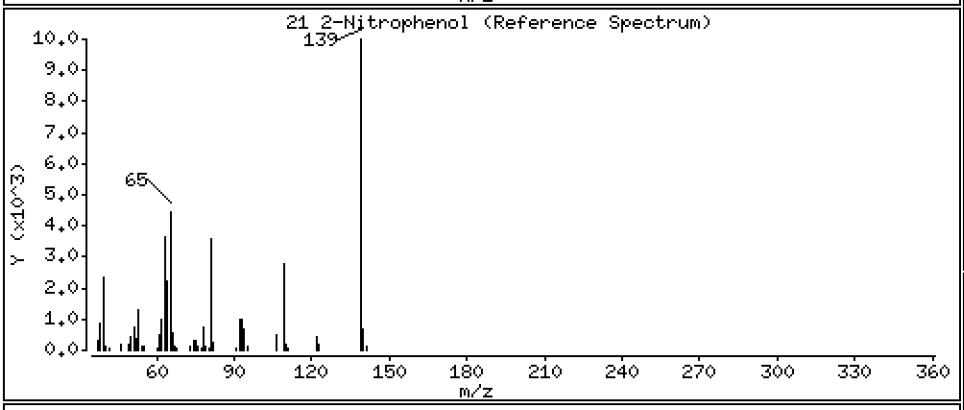
Concentration: 6.476 ug/mL

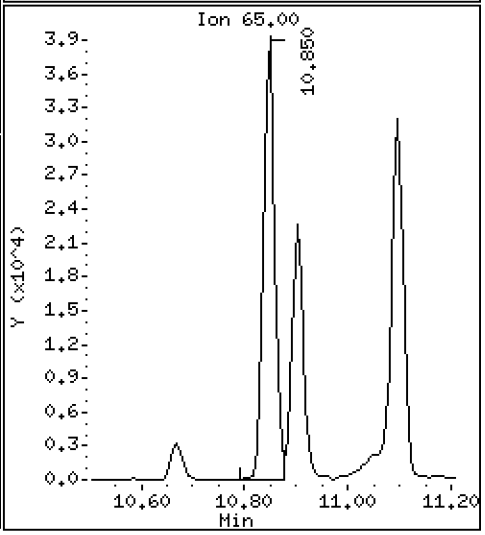


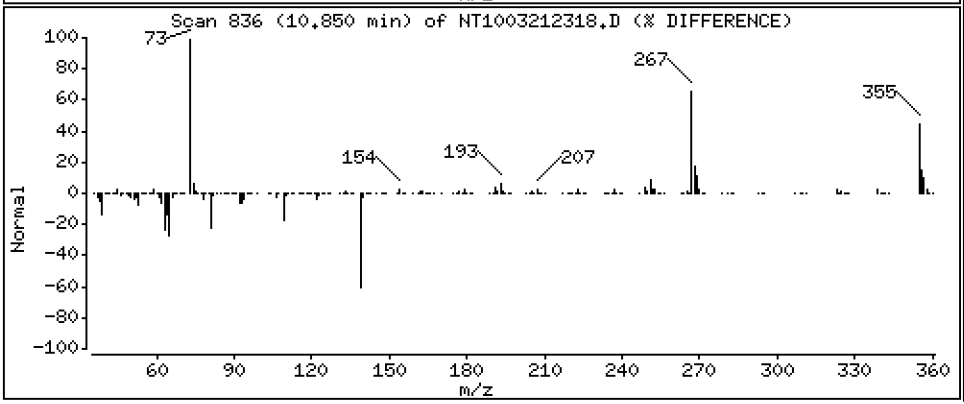












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Date : 22-MAR-2023 04:03

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-CCV1

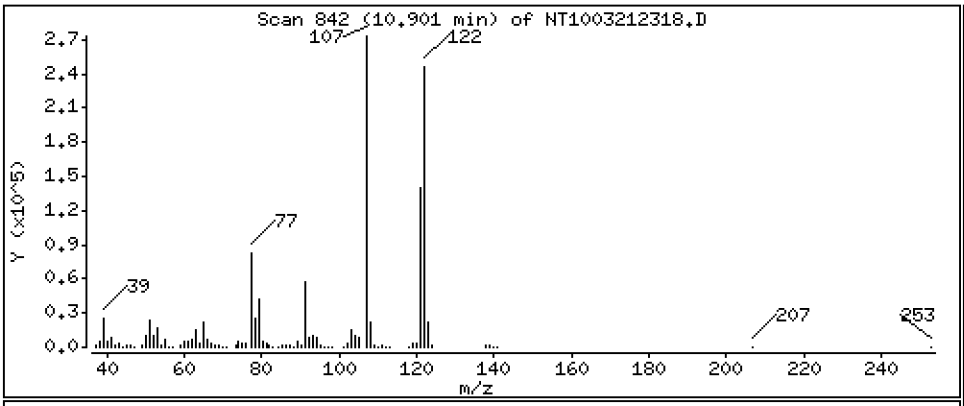
Operator: VTS

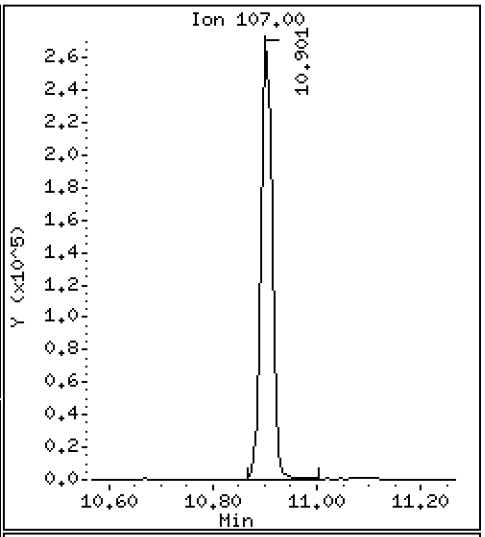
Column phase: ZB-5msi

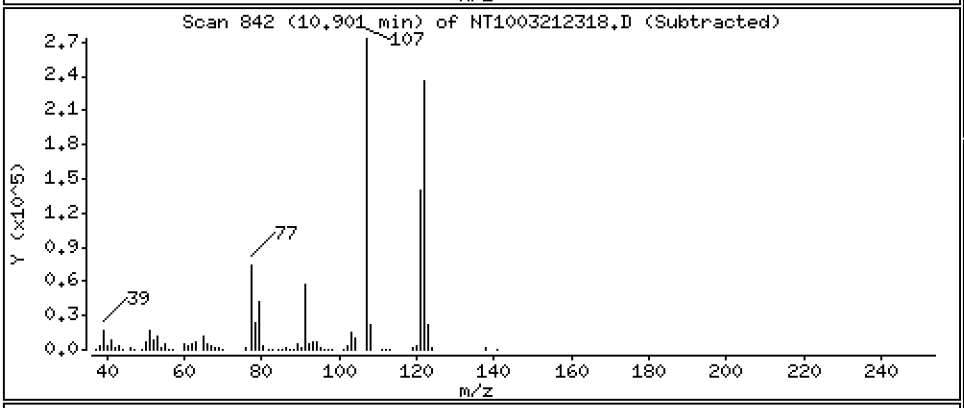
Column diameter: 0.25

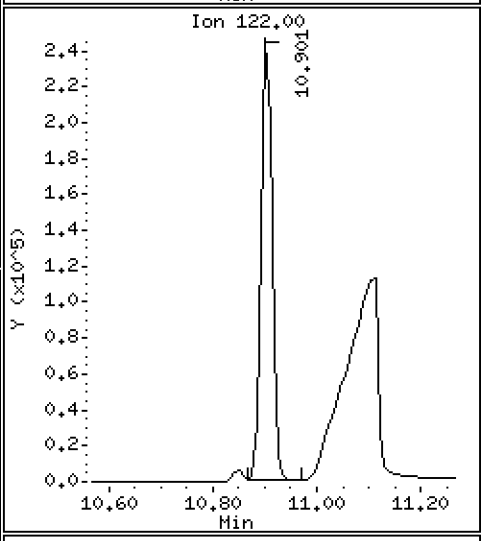
22 2,4-Dimethylphenol

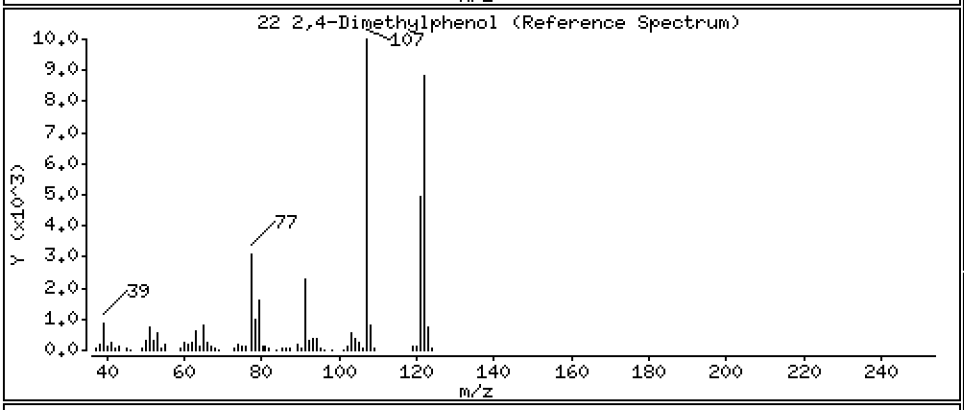
Concentration: 8.379 ug/mL

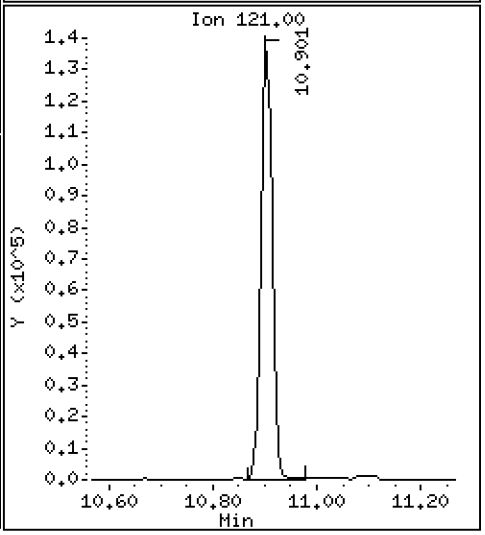


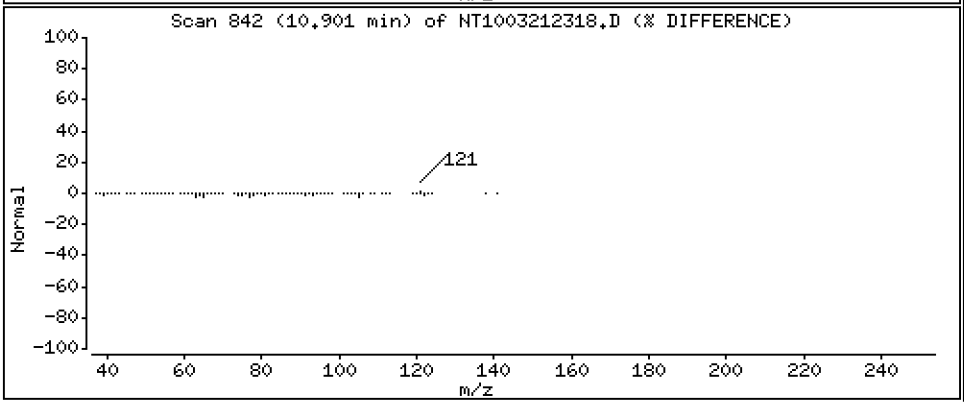












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Date : 22-MAR-2023 04:03

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-CCV1

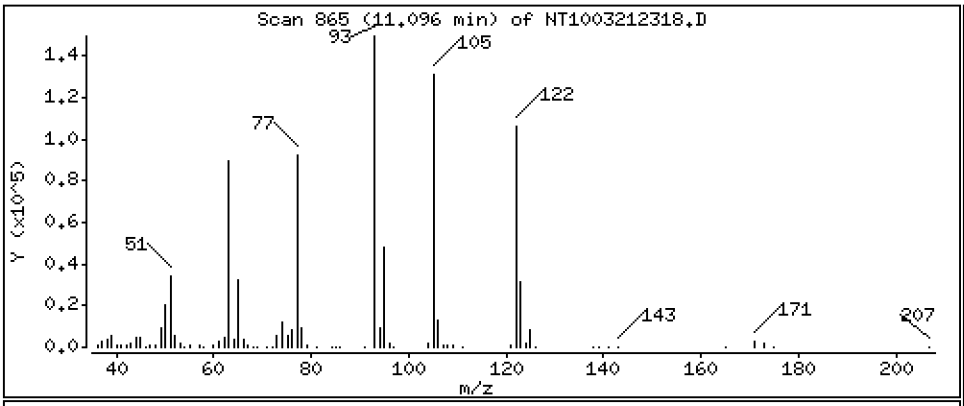
Operator: VTS

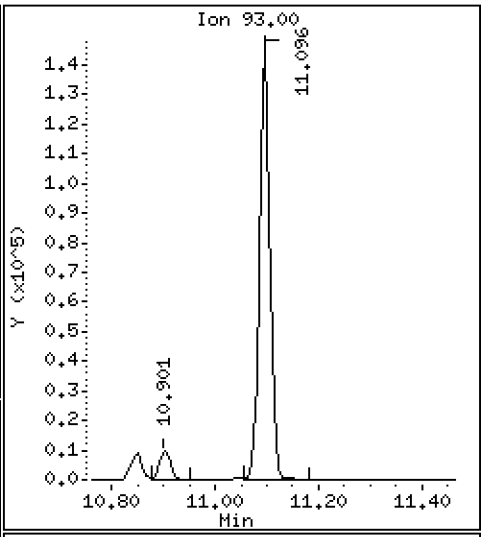
Column phase: ZB-5msi

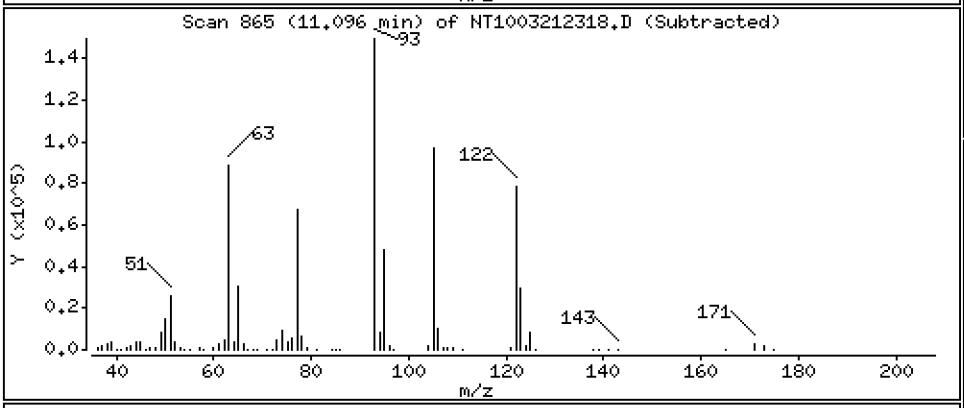
Column diameter: 0.25

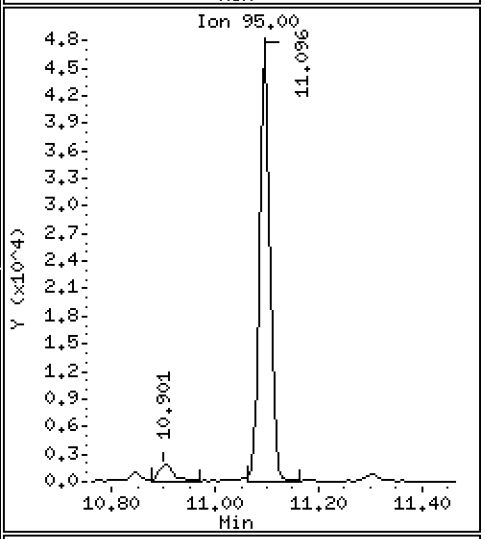
23 Bis(2-Chloroethoxy)methane

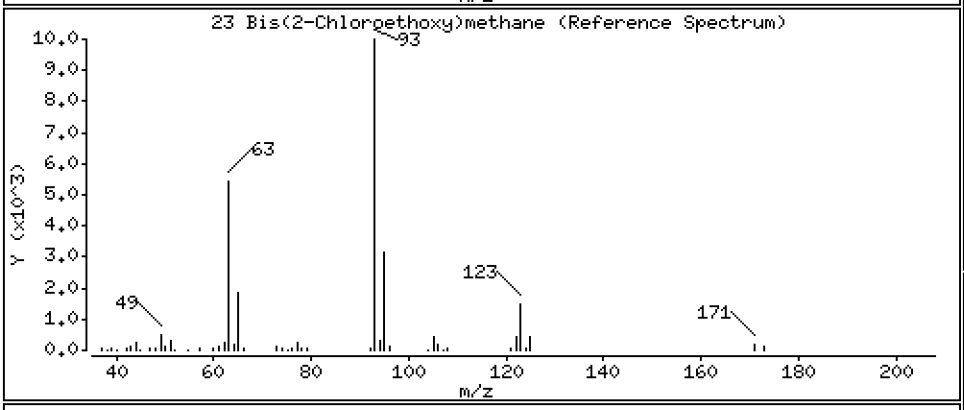
Concentration: 4.718 ug/mL

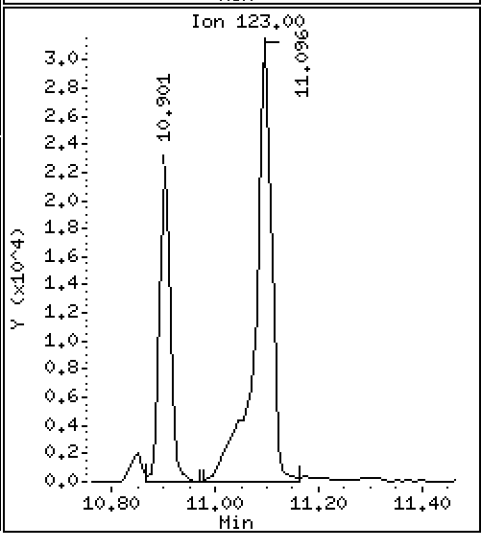


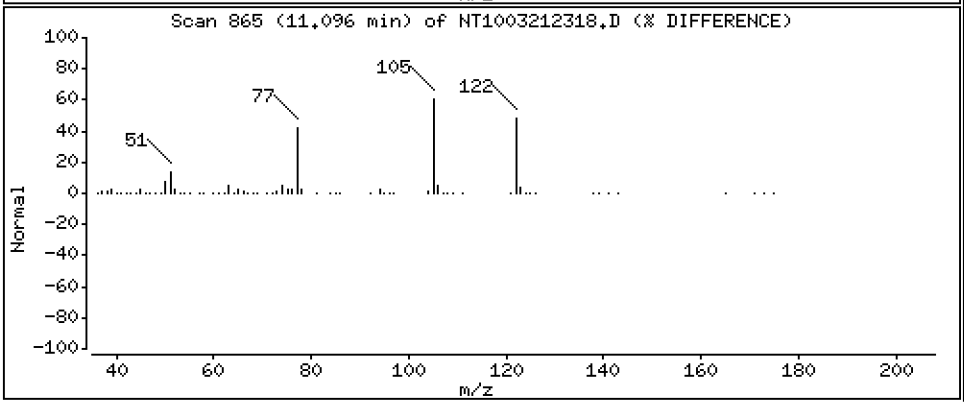












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212318.D

Date : 22-MAR-2023 04:03

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-CCV1

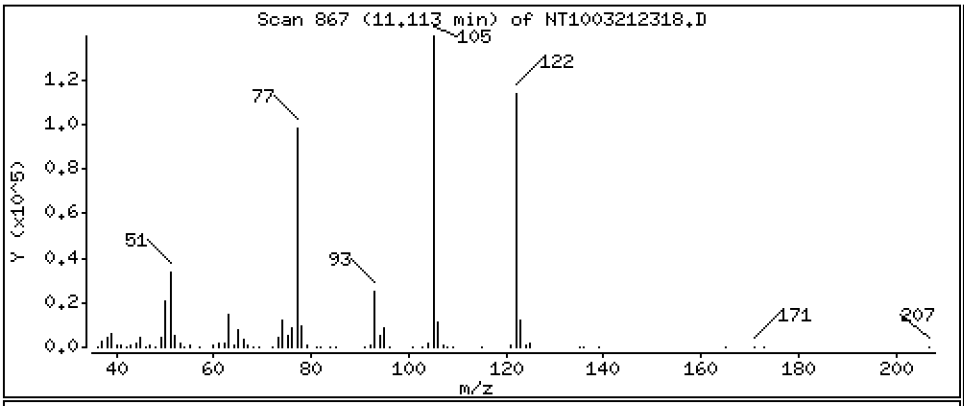
Operator: VTS

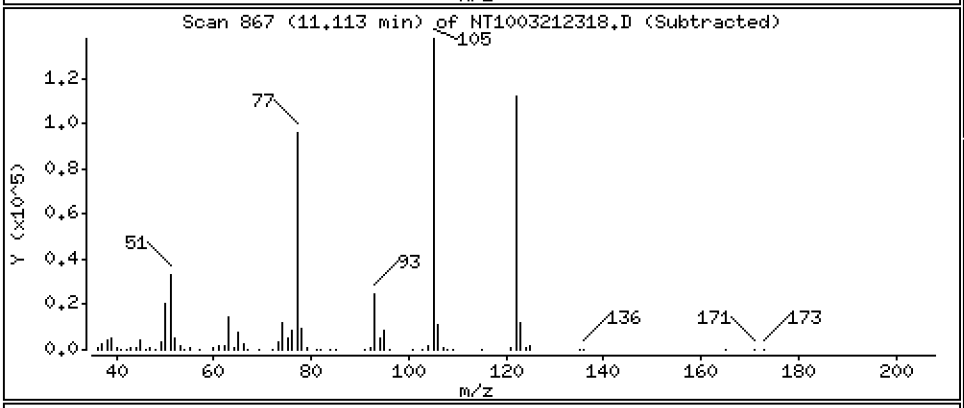
Column phase: ZB-5msi

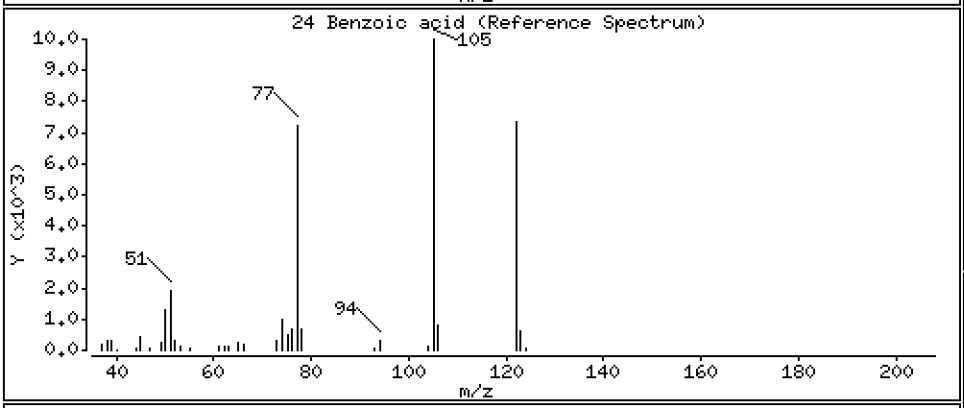
Column diameter: 0.25

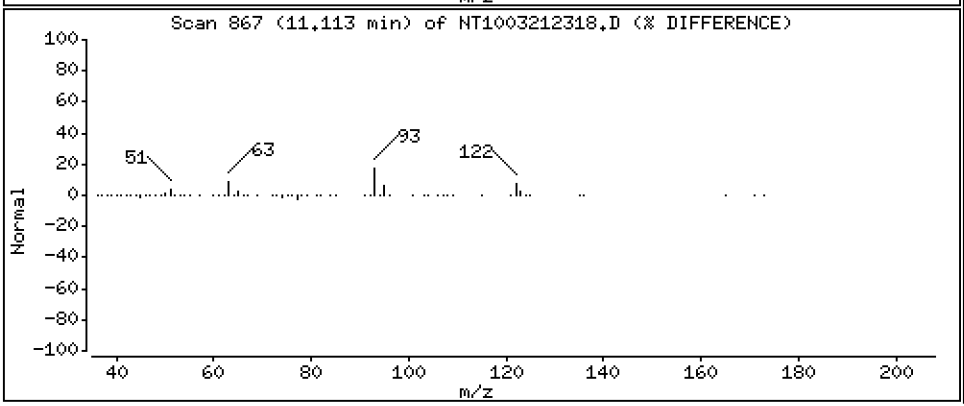
24 Benzoic acid

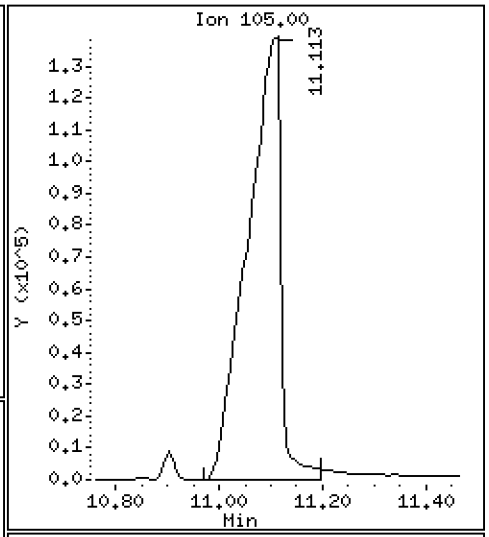
Concentration: 22.24 ug/mL

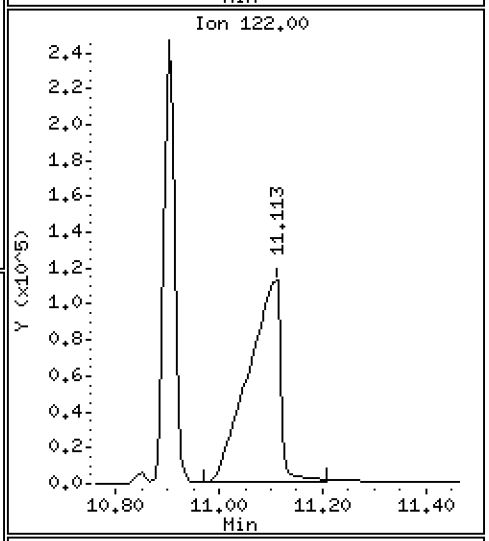


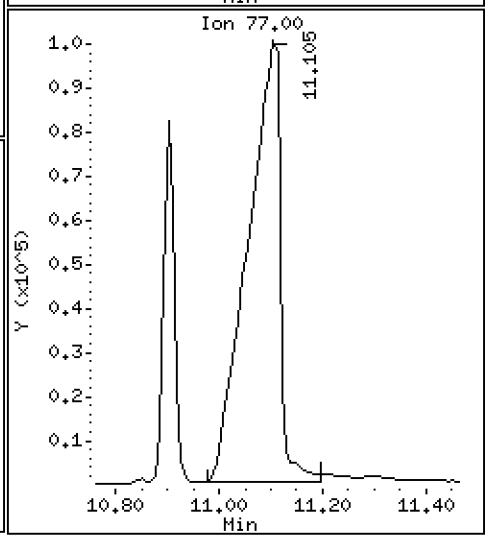












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Date : 22-MAR-2023 04:03

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-CCV1

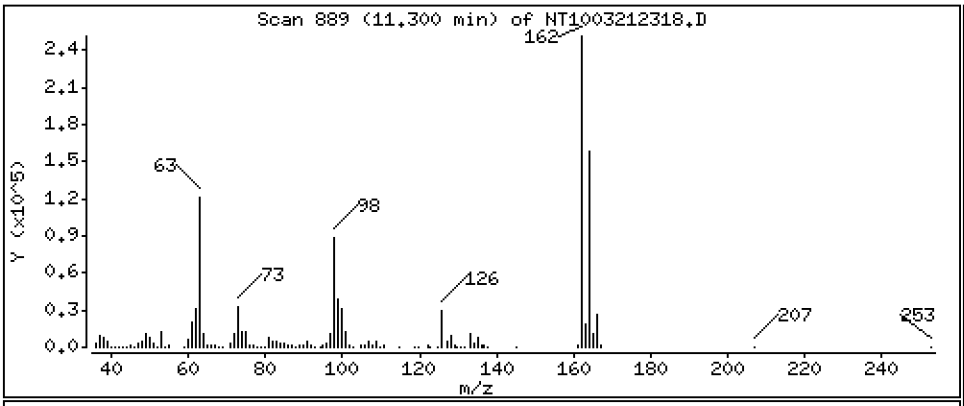
Operator: VTS

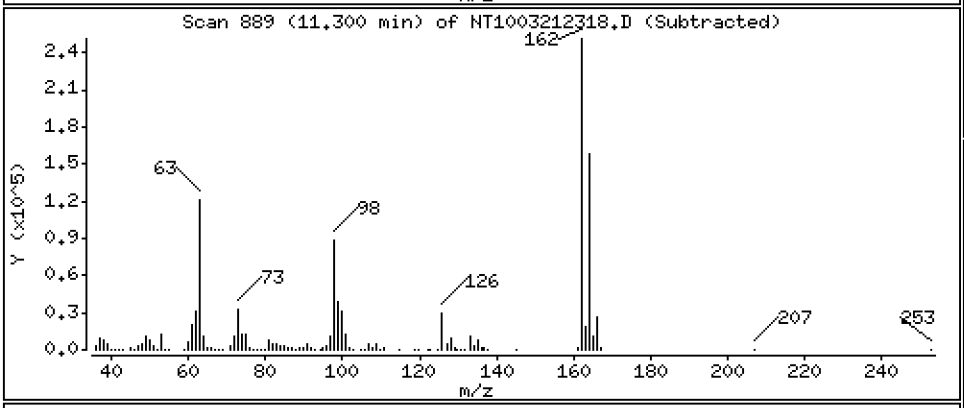
Column phase: ZB-5msi

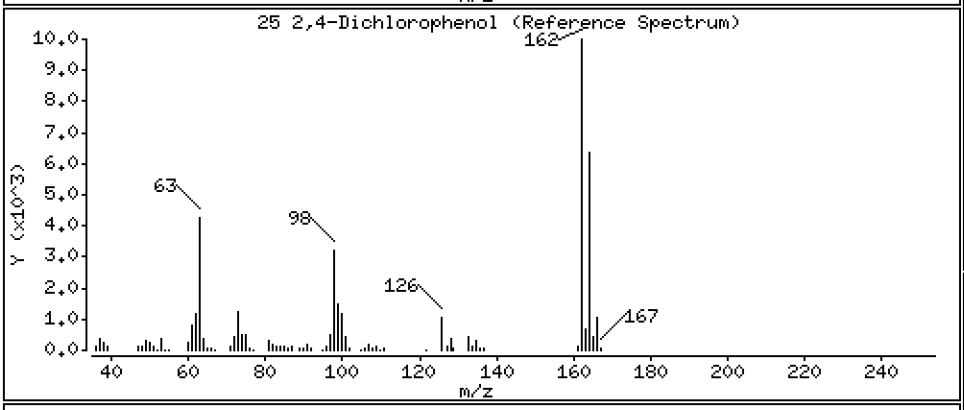
Column diameter: 0.25

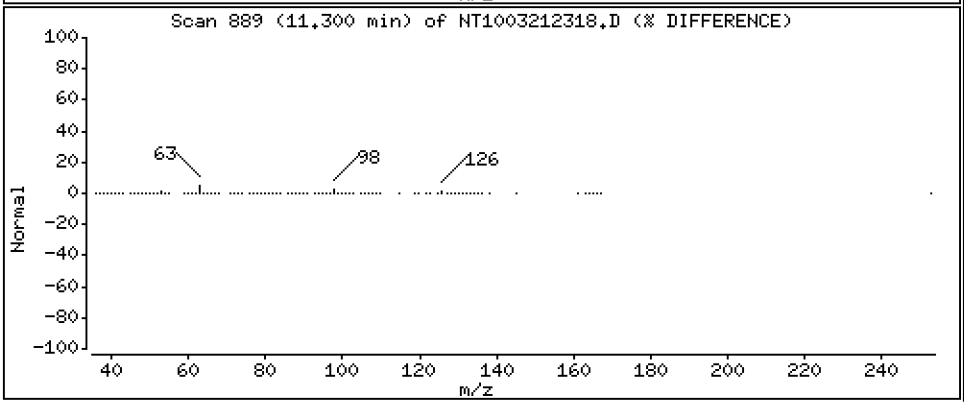
25 2,4-Dichlorophenol

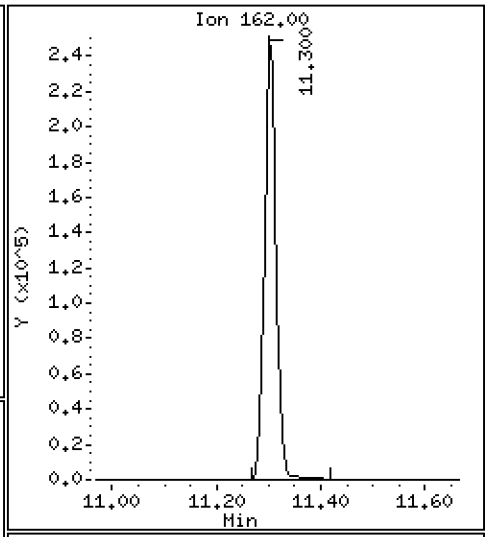
Concentration: 11.72 ug/mL

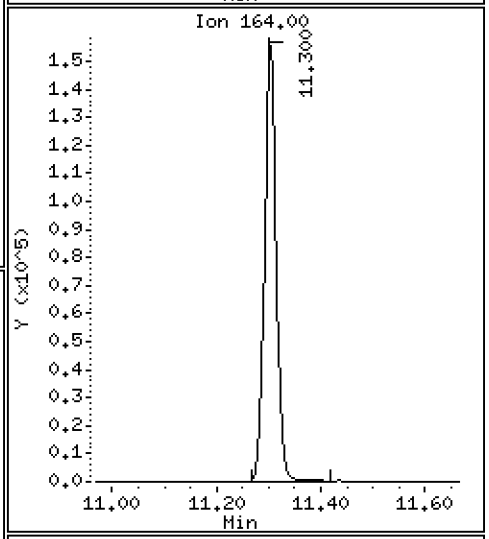


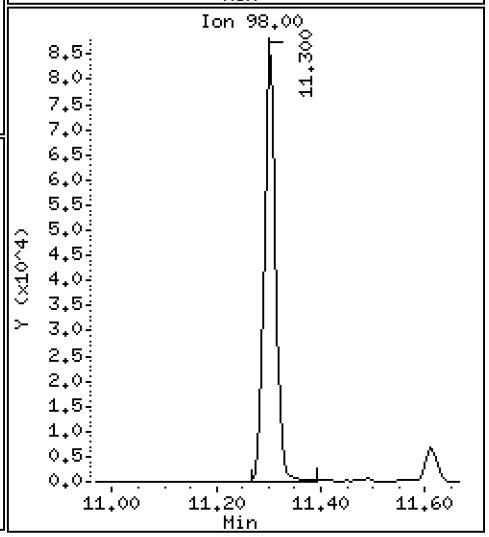












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Date : 22-MAR-2023 04:03

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-CCV1

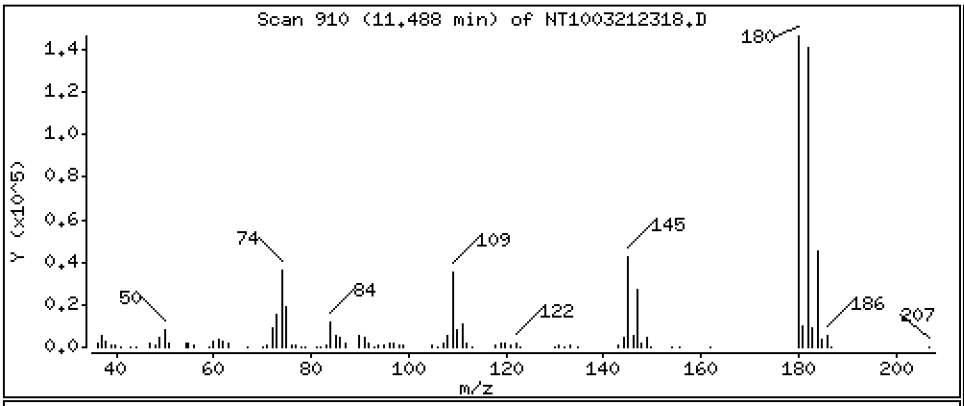
Operator: VTS

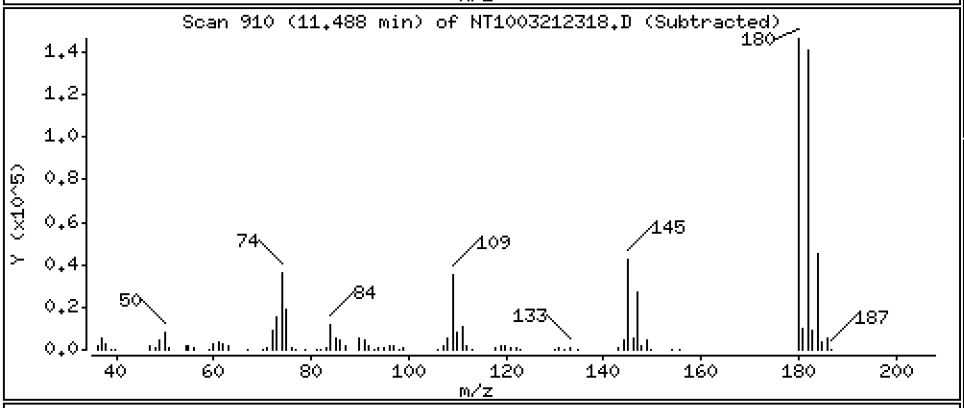
Column phase: ZB-5msi

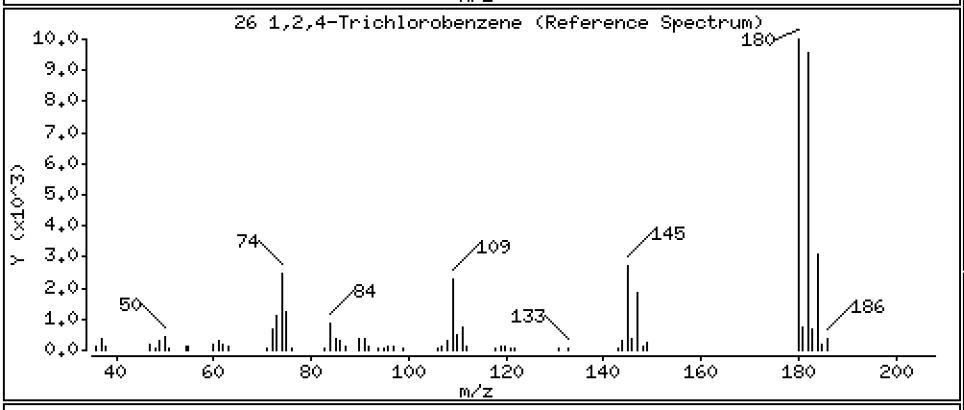
Column diameter: 0.25

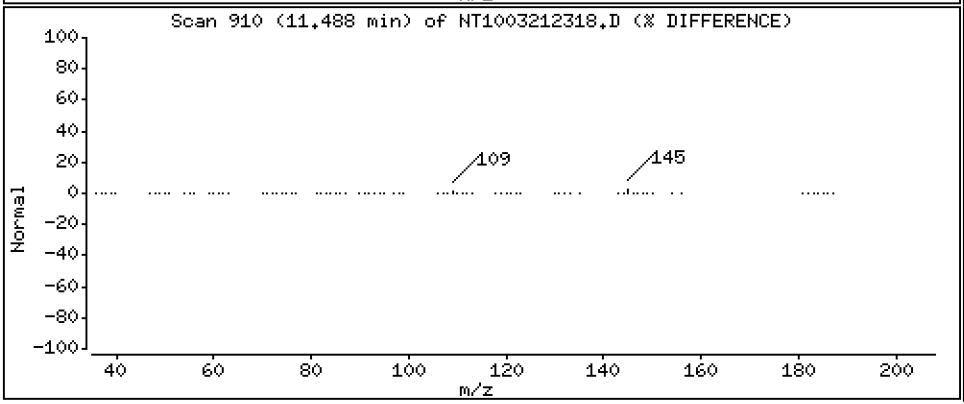
26 1,2,4-Trichlorobenzene

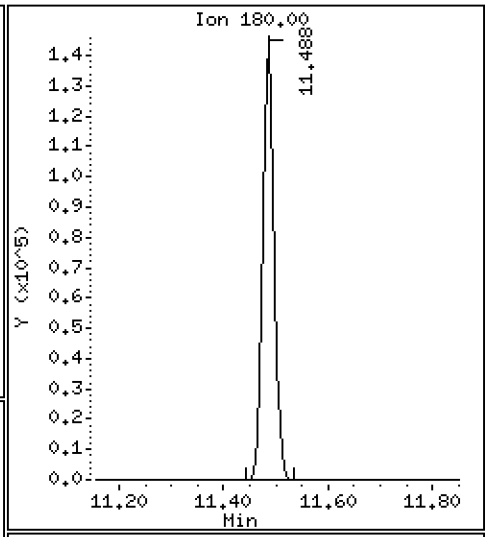
Concentration: 4.938 ug/mL

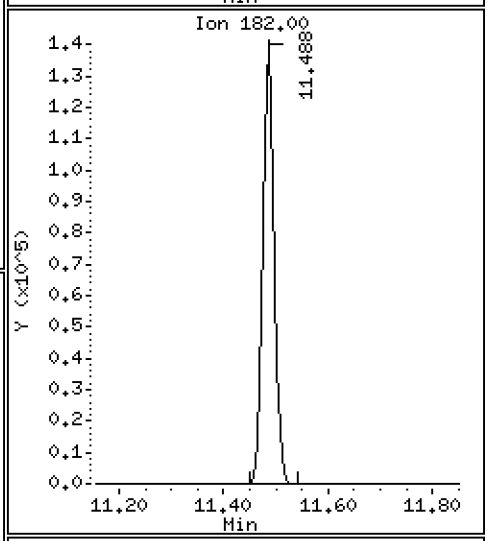


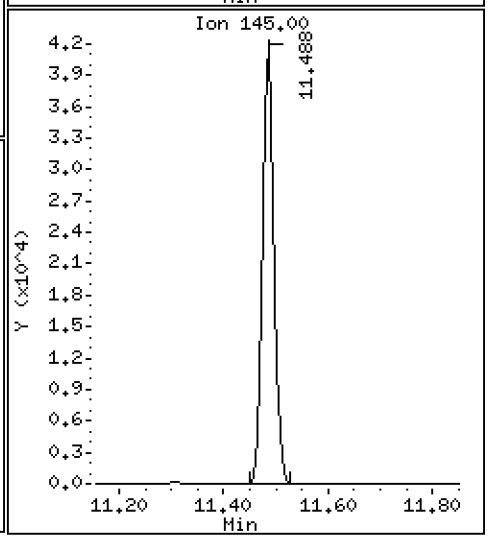












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Date : 22-MAR-2023 04:03

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-CCV1

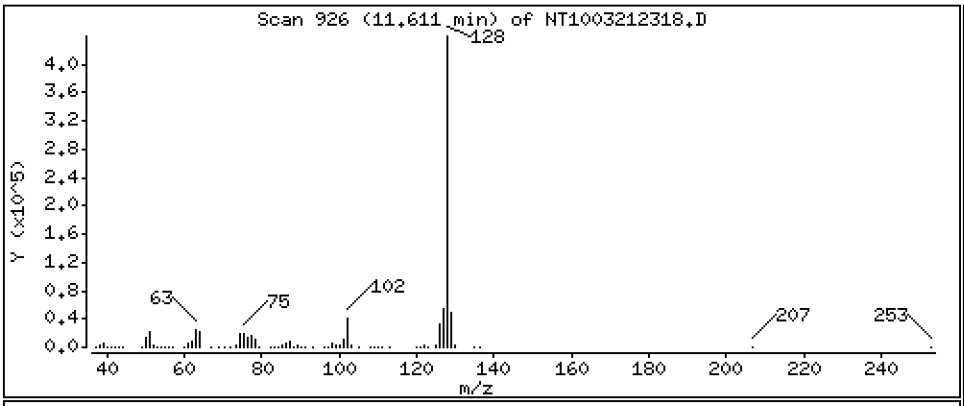
Operator: VTS

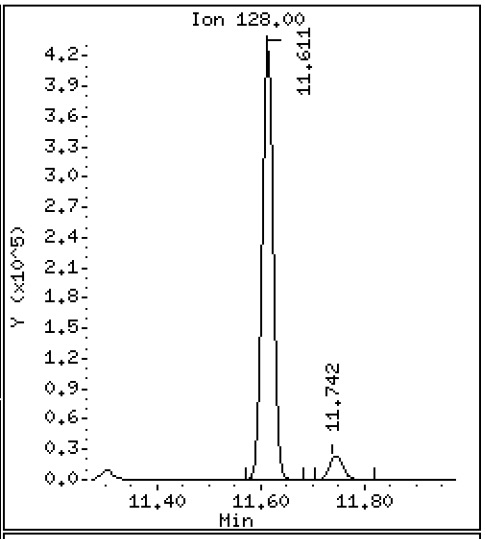
Column phase: ZB-5msi

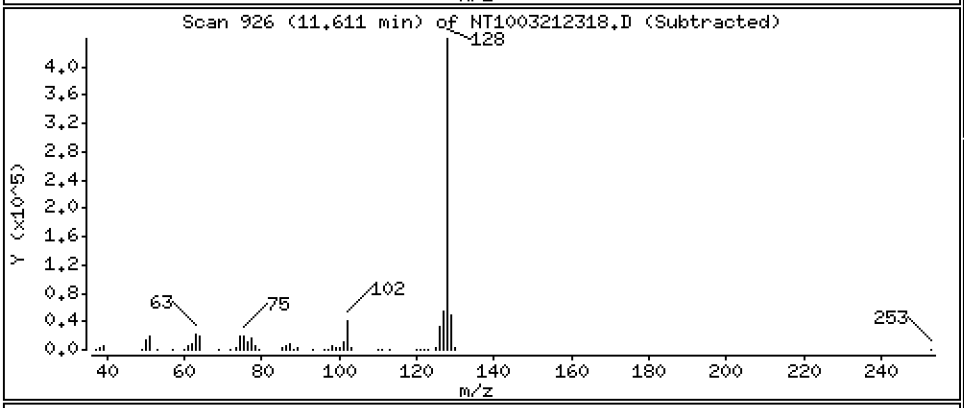
Column diameter: 0.25

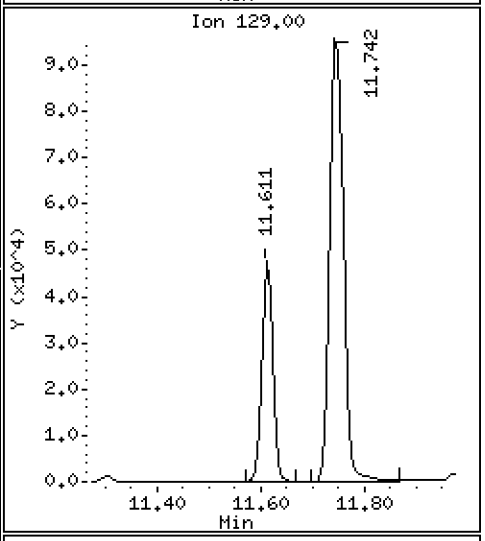
28 Naphthalene

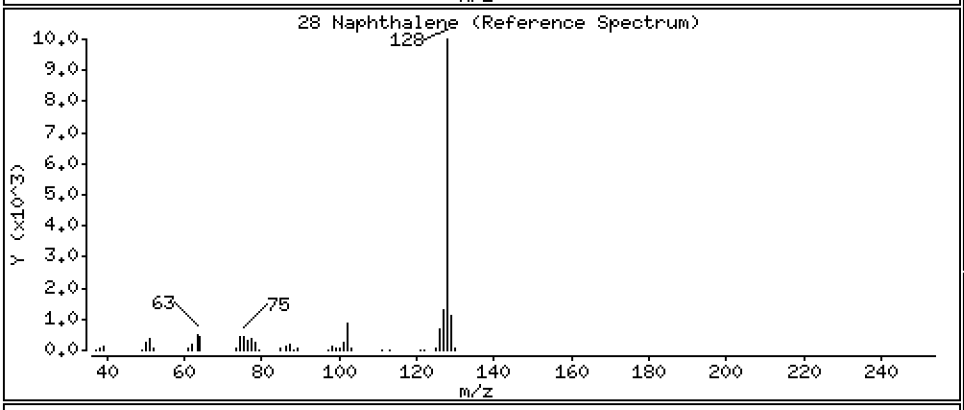
Concentration: 4.790 ug/mL

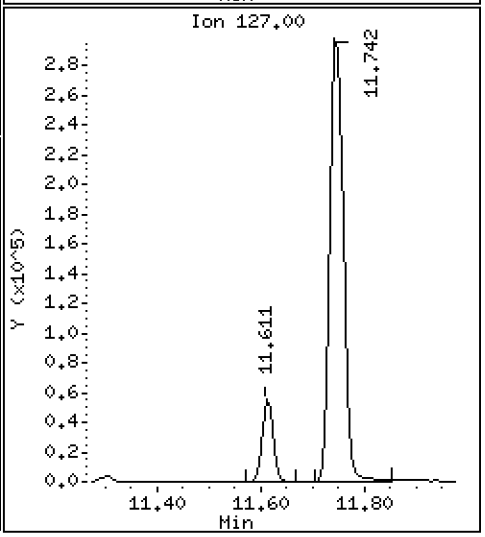


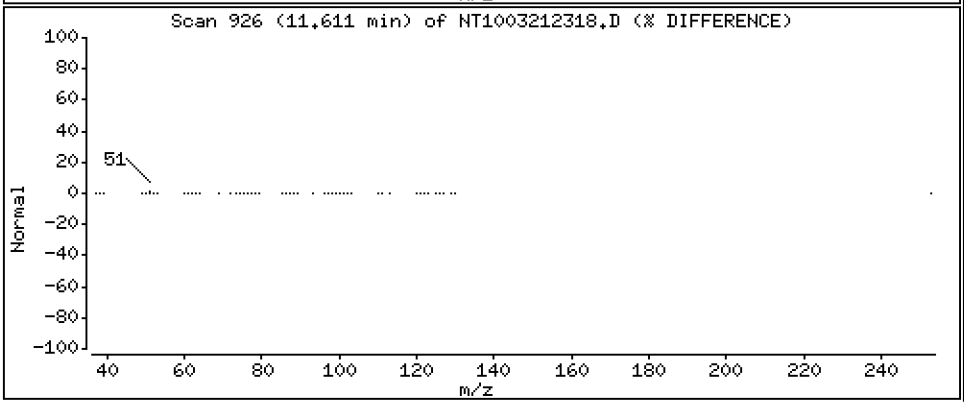












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Date : 22-MAR-2023 04:03

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-CCV1

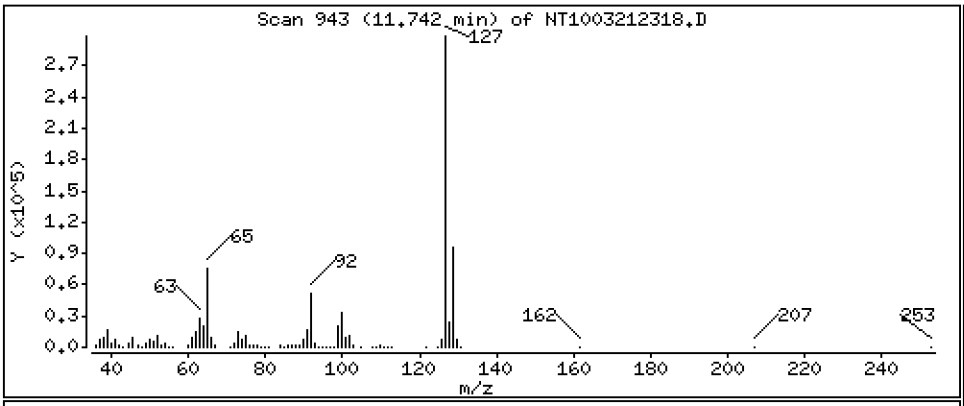
Operator: VTS

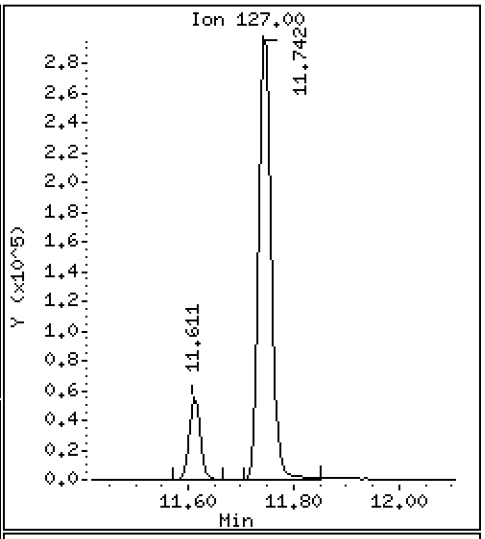
Column phase: ZB-5msi

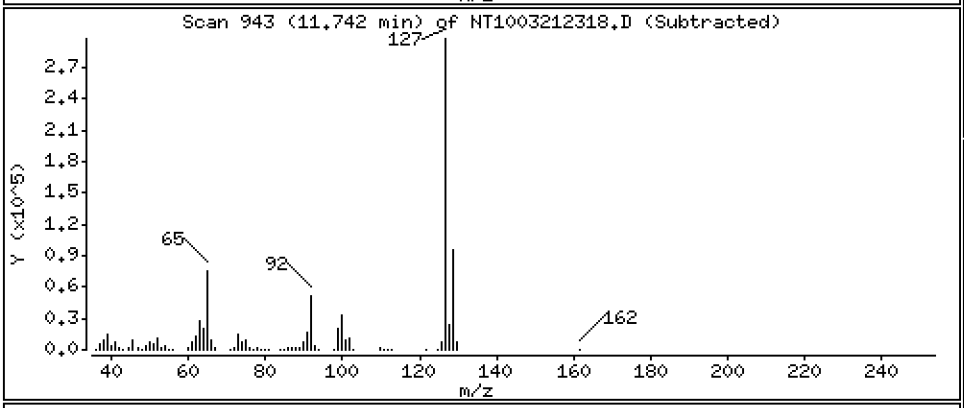
Column diameter: 0.25

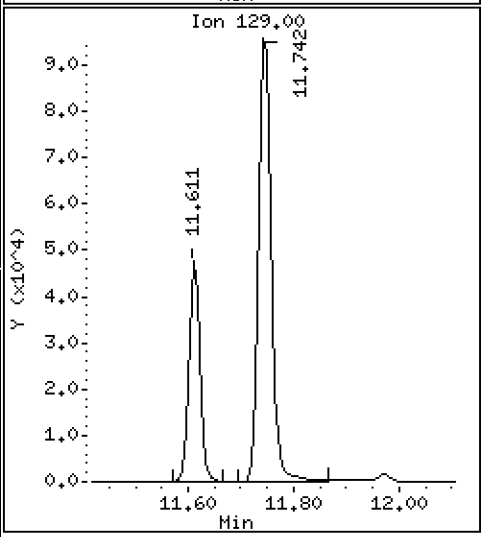
29 4-Chloroaniline

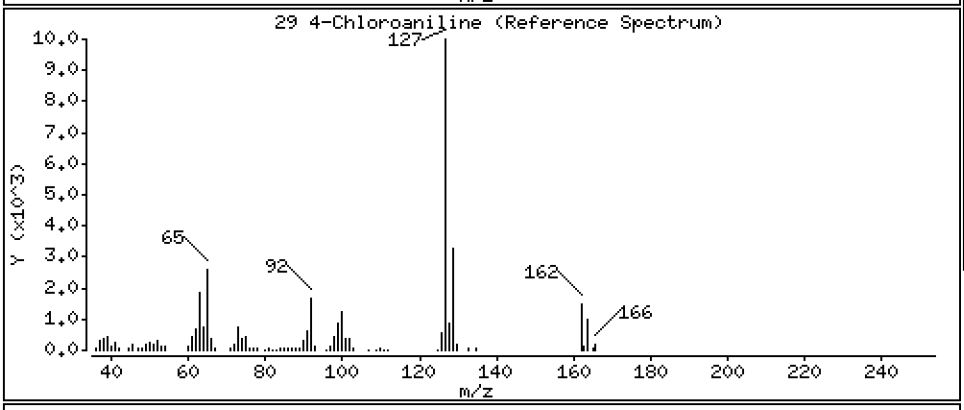
Concentration: 9.542 ug/mL

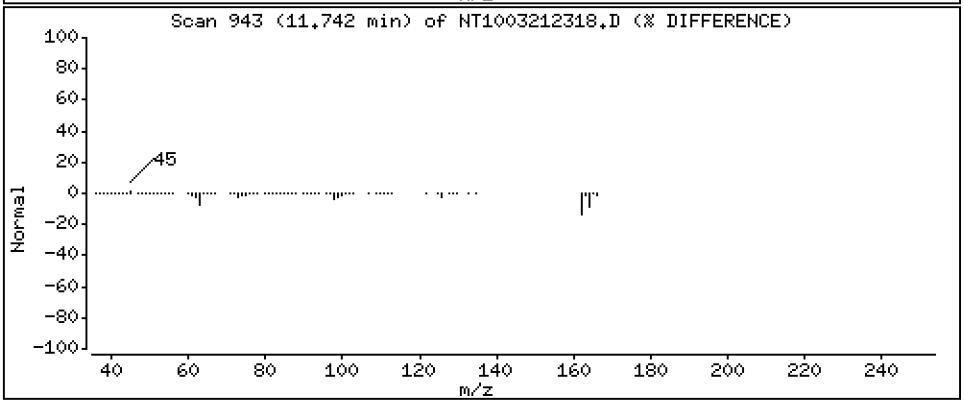












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Date : 22-MAR-2023 04:03

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-CCV1

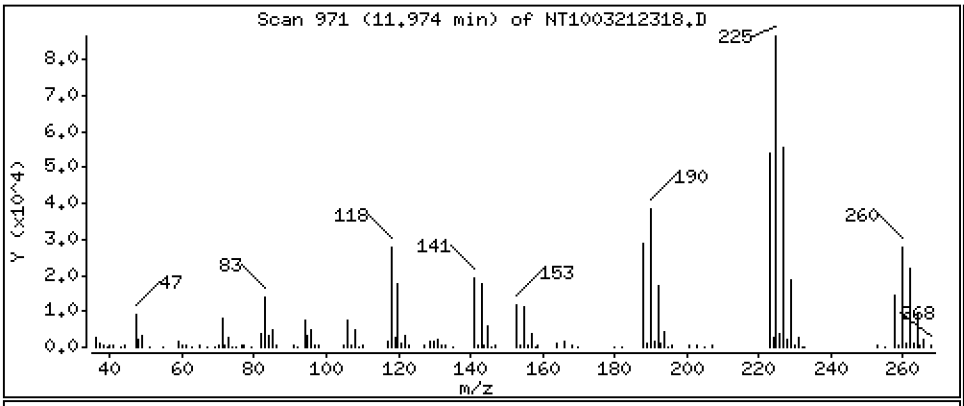
Operator: VTS

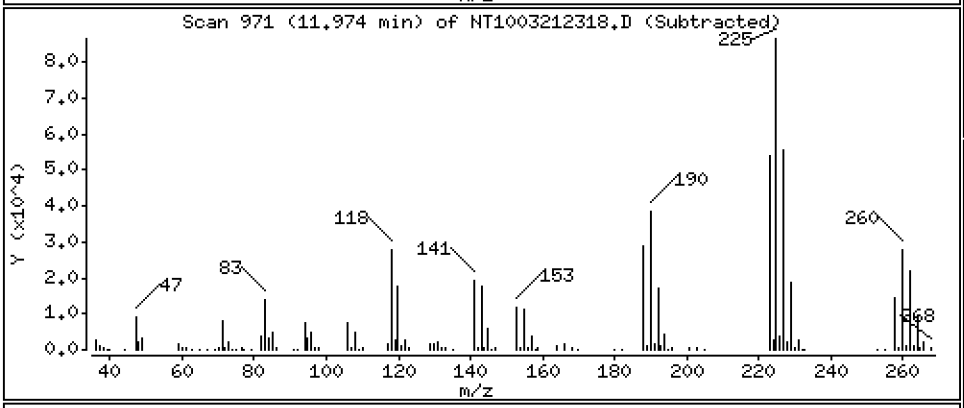
Column phase: ZB-5msi

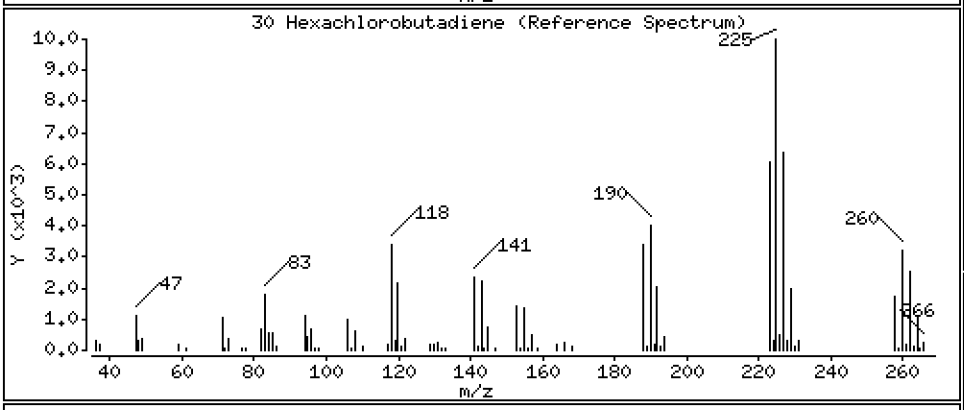
Column diameter: 0.25

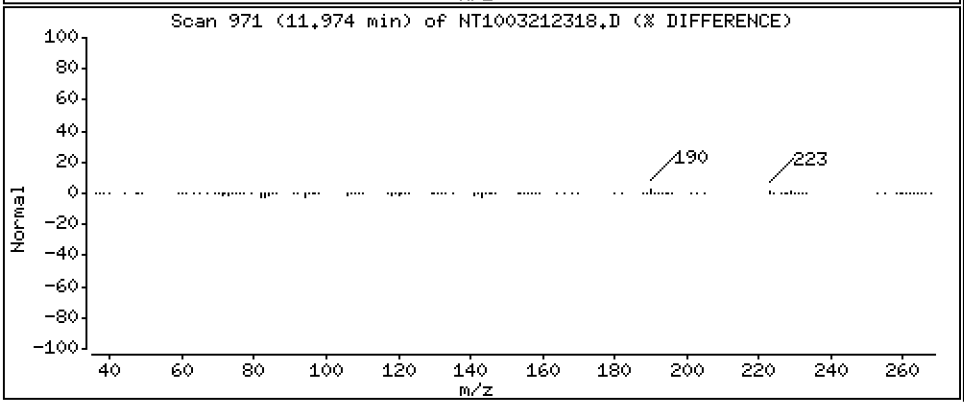
30 Hexachlorobutadiene

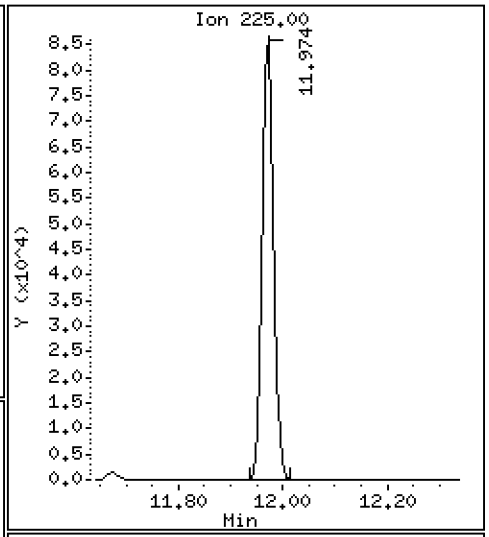
Concentration: 5.102 ug/mL

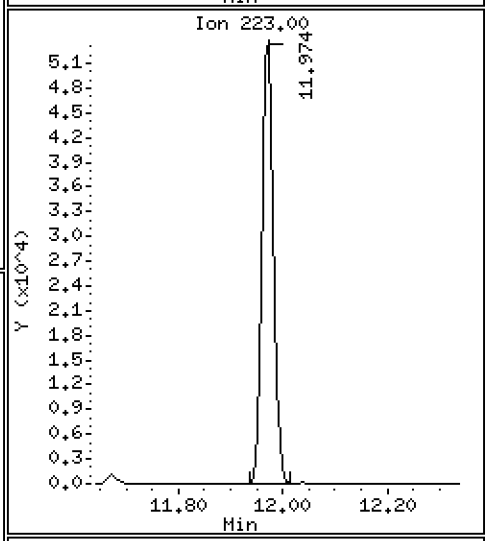


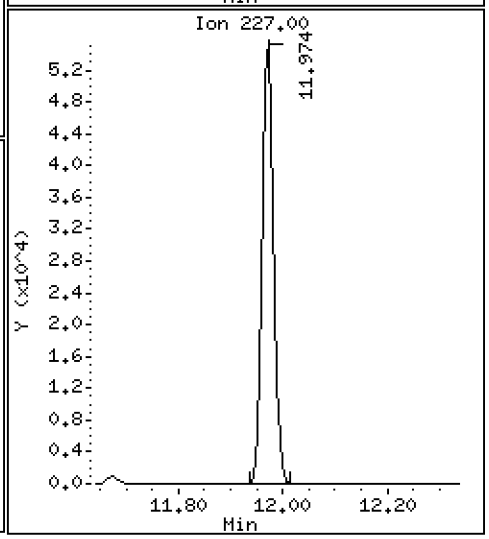












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212318.D

Date : 22-MAR-2023 04:03

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-CCV1

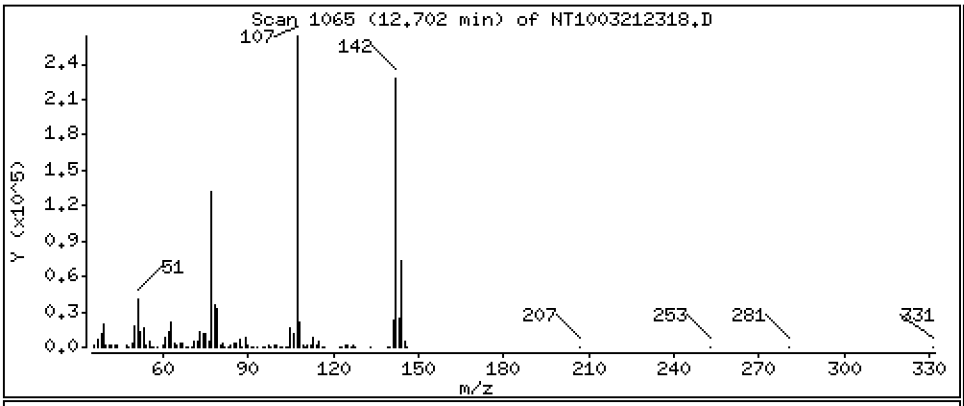
Operator: VTS

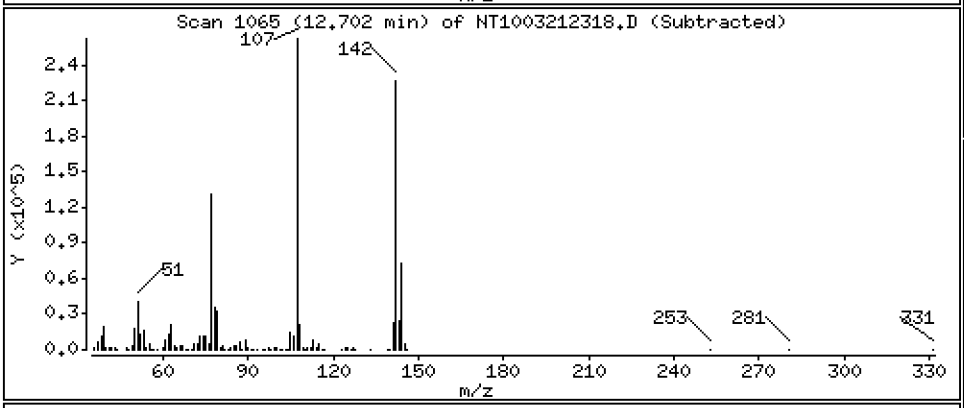
Column phase: ZB-5msi

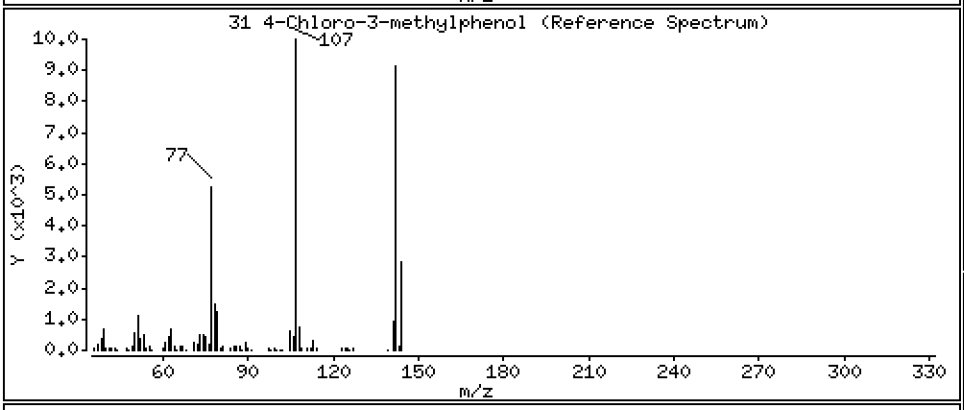
Column diameter: 0.25

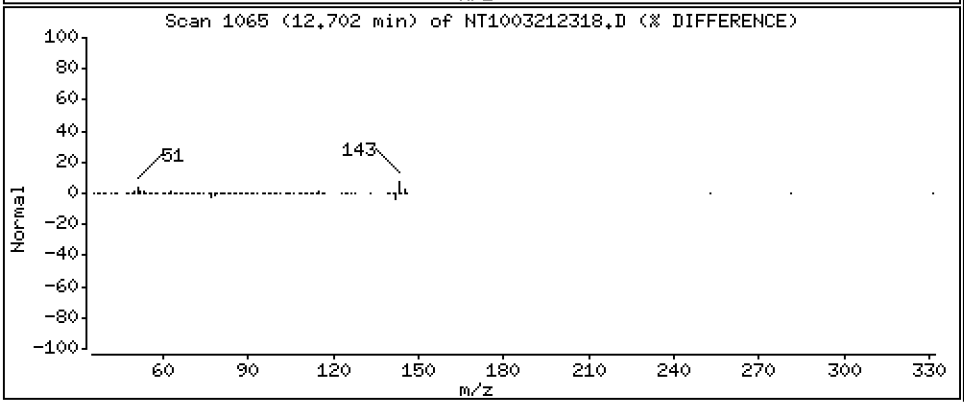
31 4-Chloro-3-methylphenol

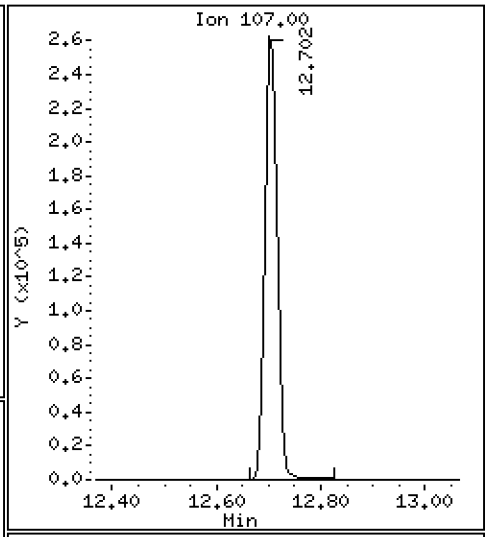
Concentration: 10.01 ug/mL

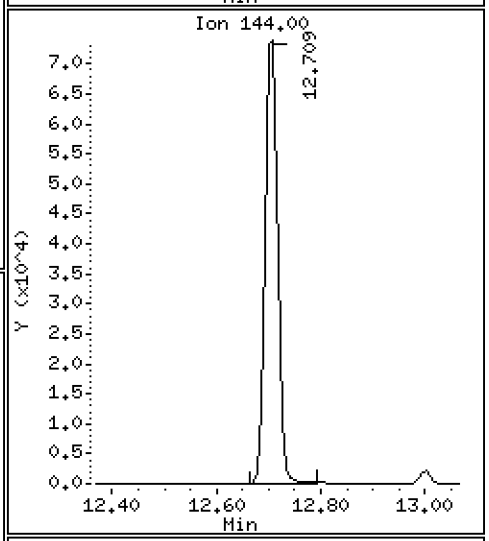


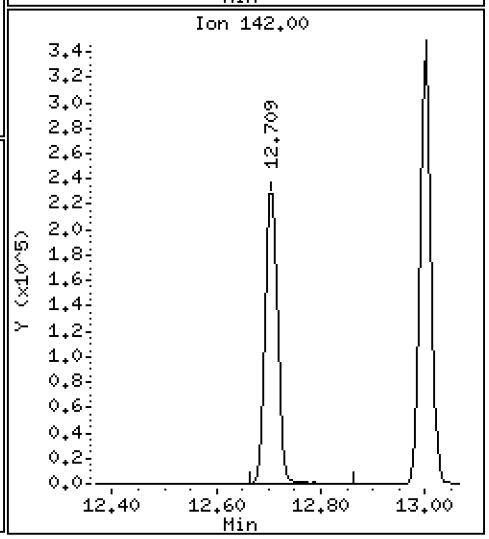












Date : 22-MAR-2023 04:03

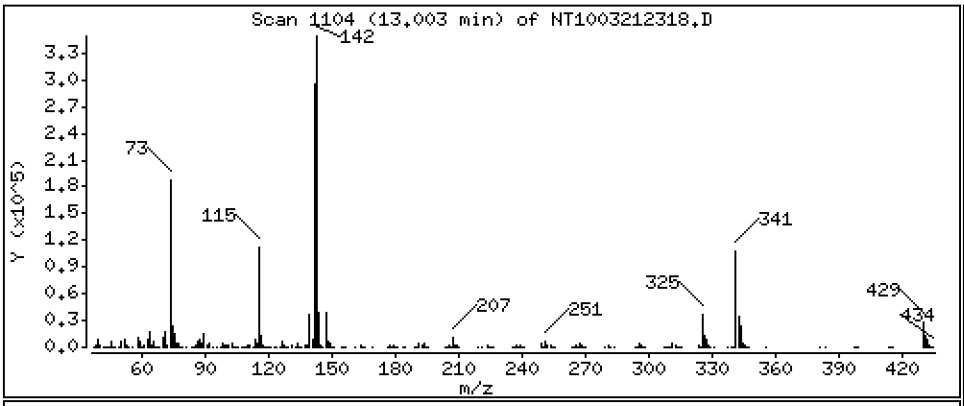
Client ID: Instrument: nt10.i

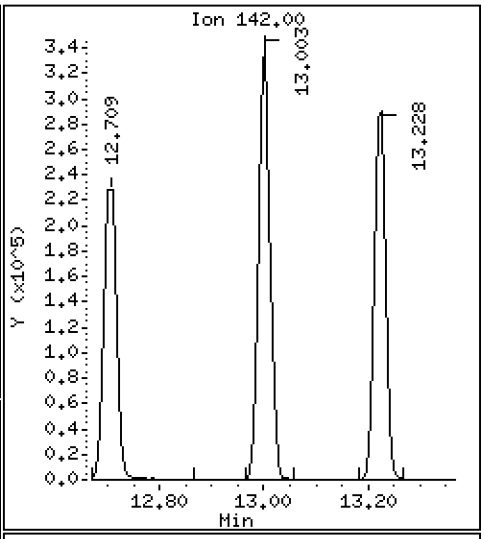
Sample Info: SLC0451-CCV1

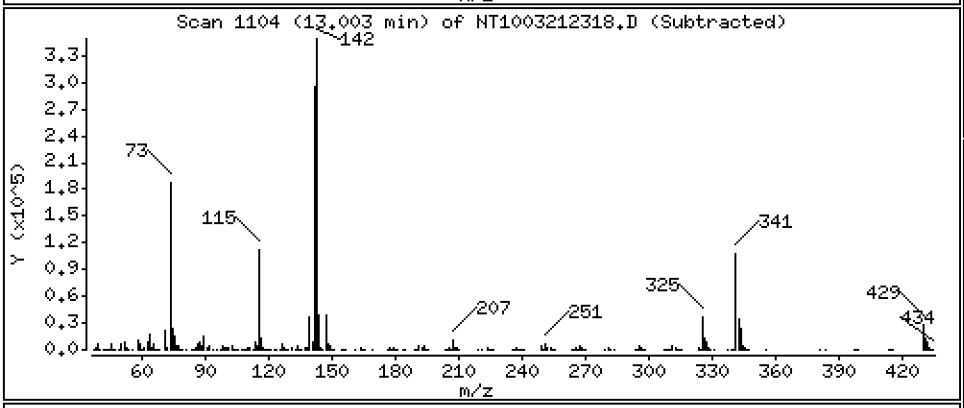
Operator: VTS

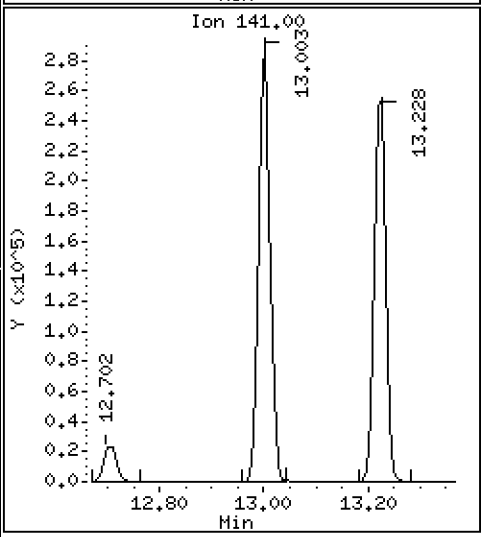
Column phase: ZB-5msi Column diameter: 0.25

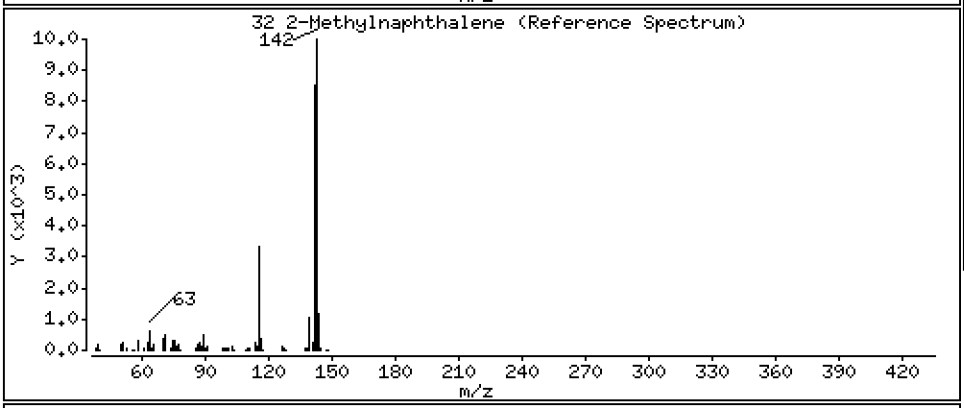
32 2-Methylnaphthalene Concentration: 5.063 ug/mL

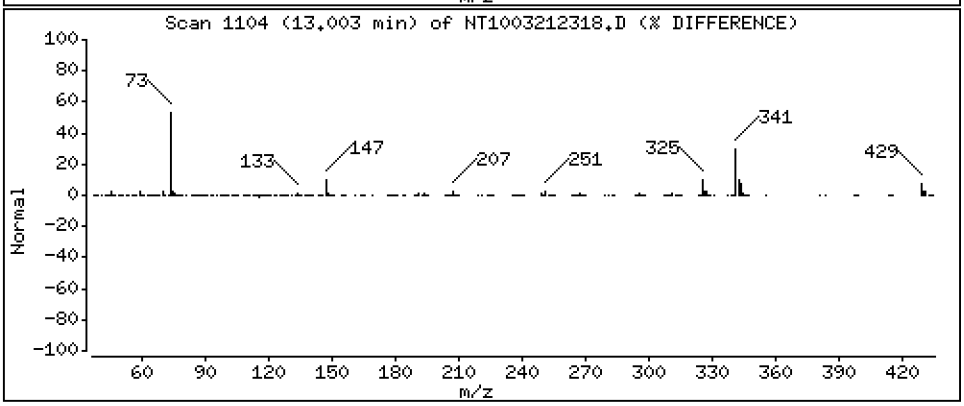












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212318.D

Date : 22-MAR-2023 04:03

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-CCV1

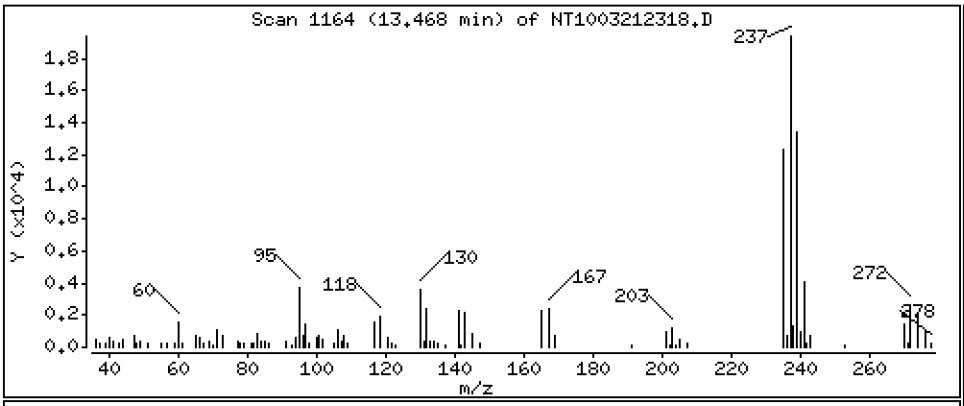
Operator: VTS

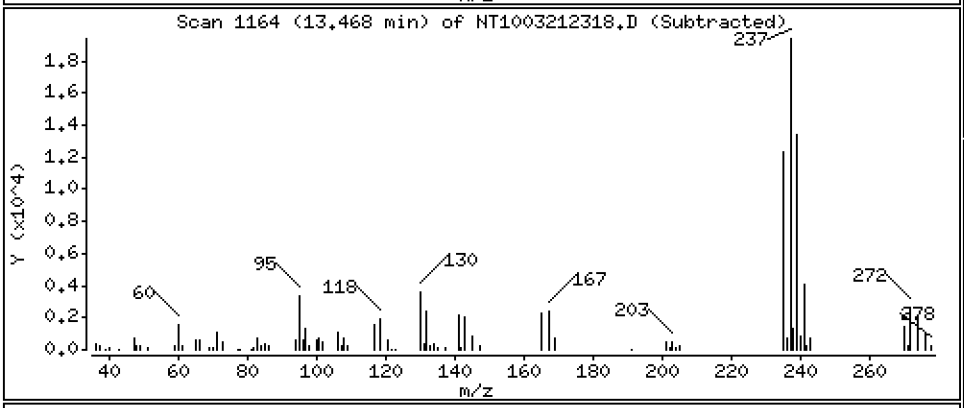
Column phase: ZB-5msi

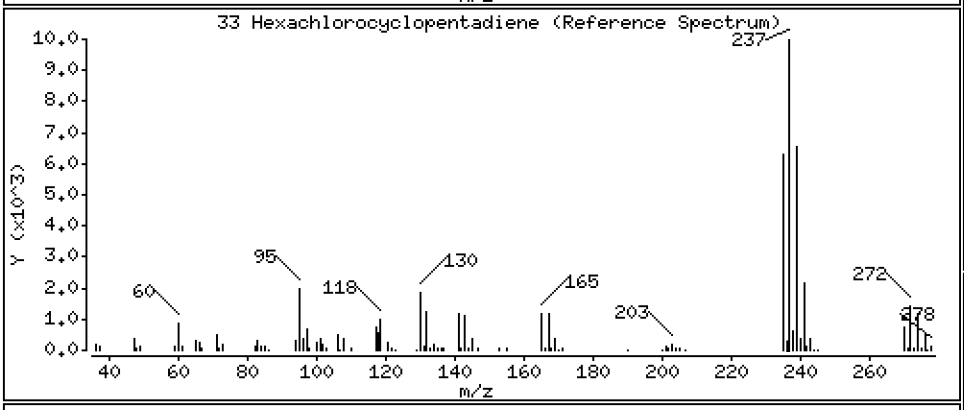
Column diameter: 0.25

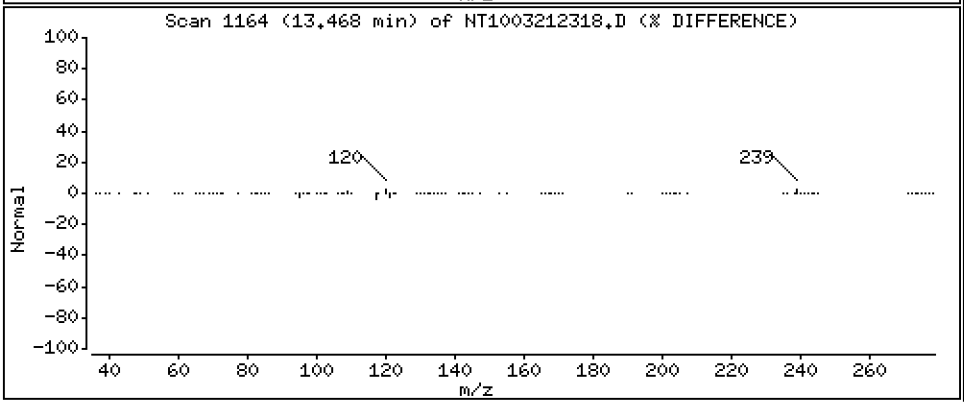
33 Hexachlorocyclopentadiene

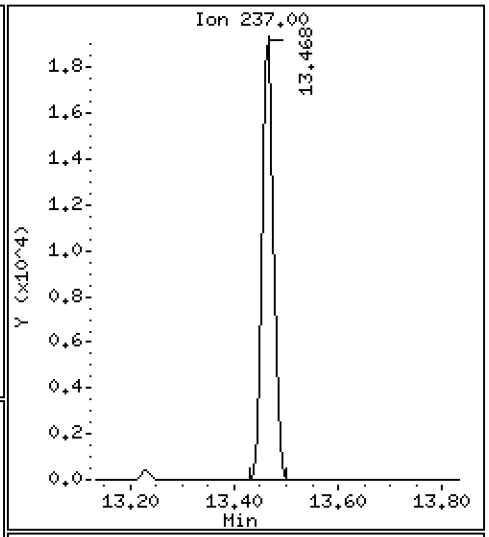
Concentration: 1.066 ug/mL

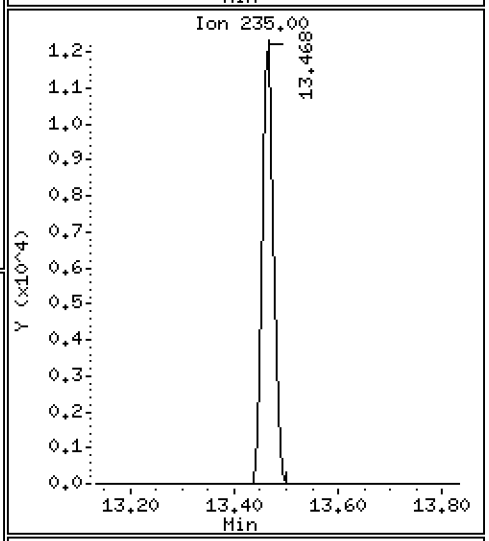


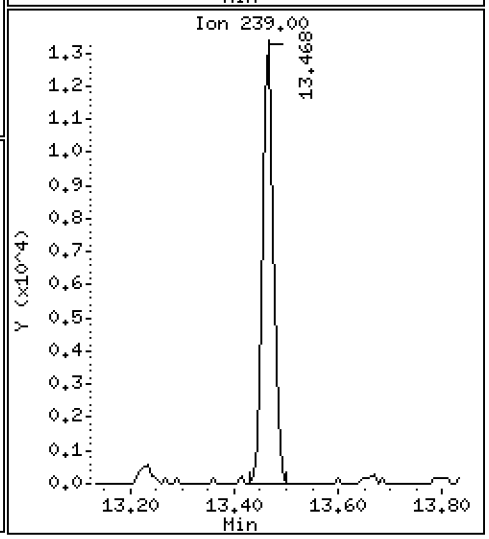












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212318.D

Date : 22-MAR-2023 04:03

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-CCV1

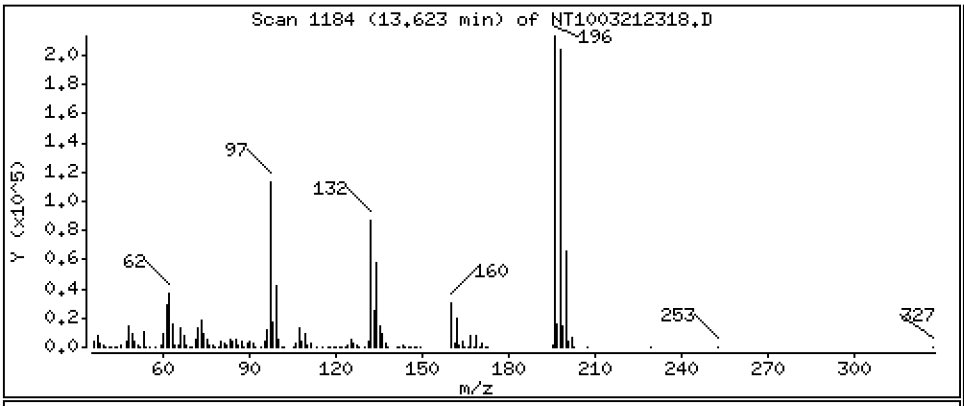
Operator: VTS

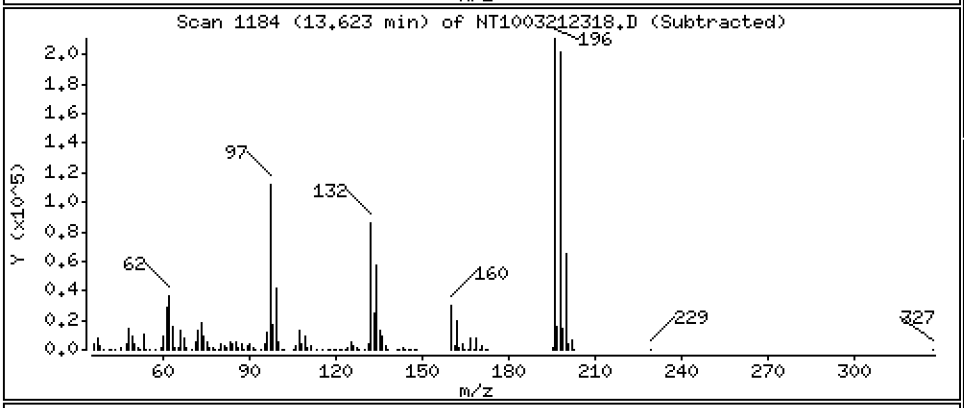
Column phase: ZB-5msi

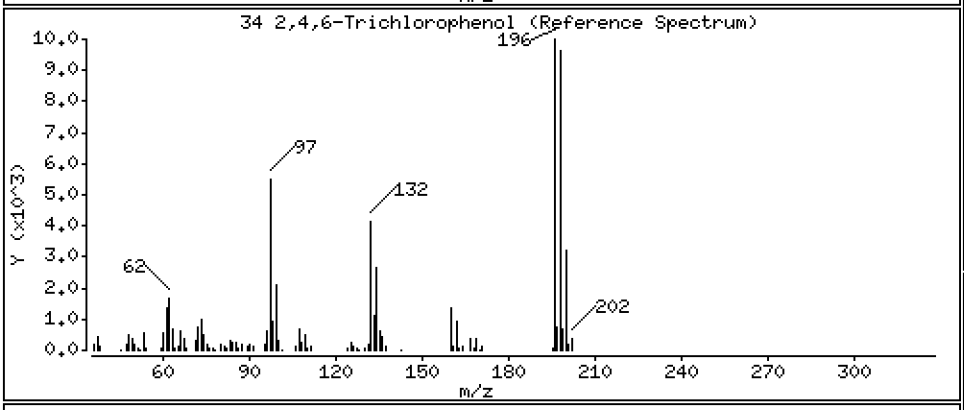
Column diameter: 0.25

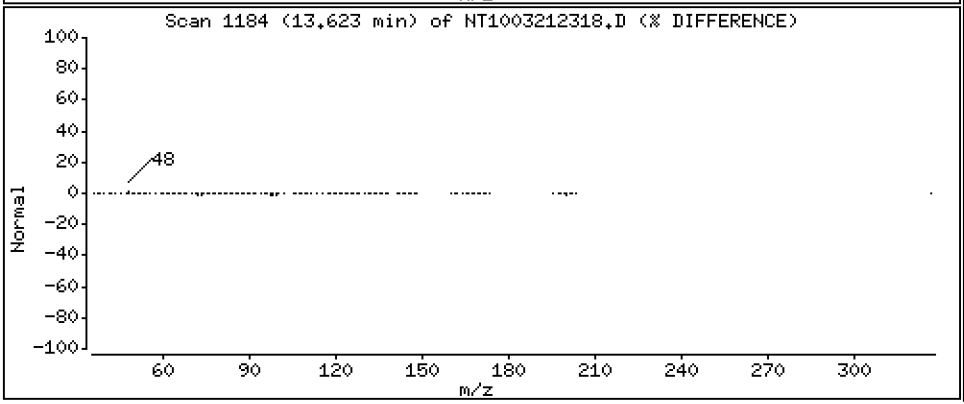
34 2,4,6-Trichlorophenol

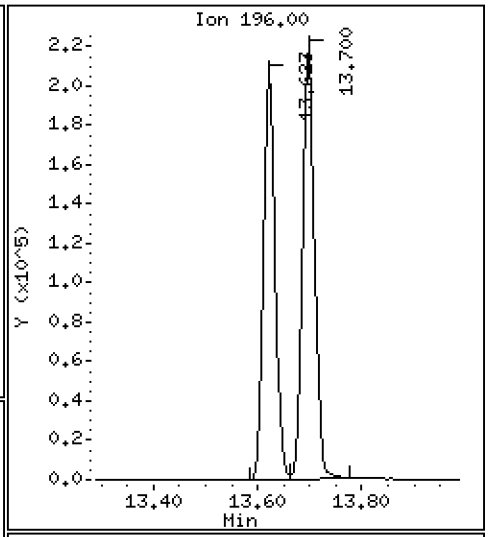
Concentration: 11.18 ug/mL

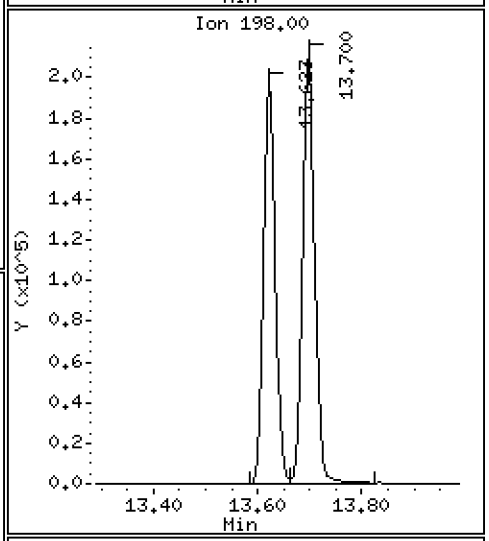


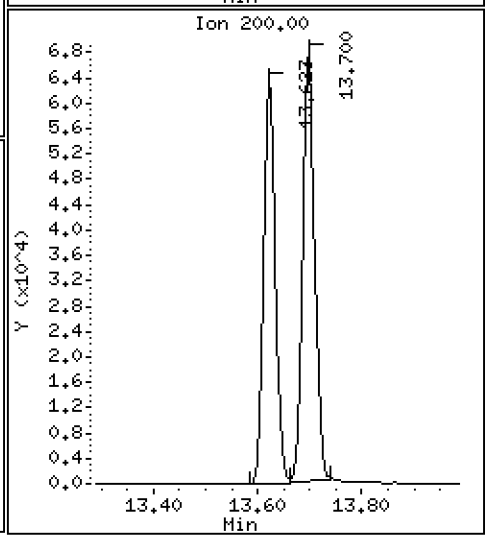












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Date : 22-MAR-2023 04:03

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-CCV1

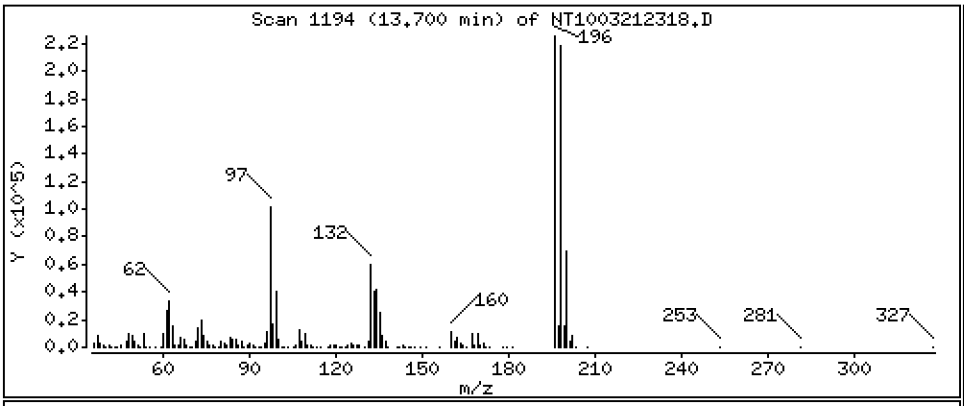
Operator: VTS

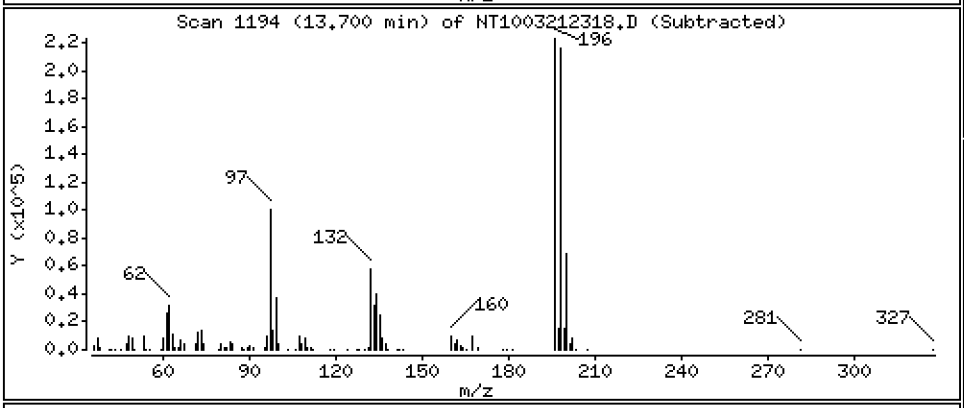
Column phase: ZB-5msi

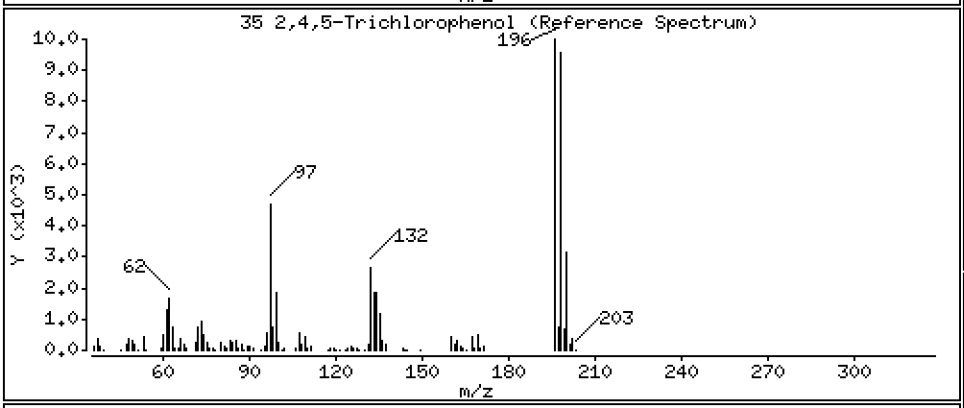
Column diameter: 0.25

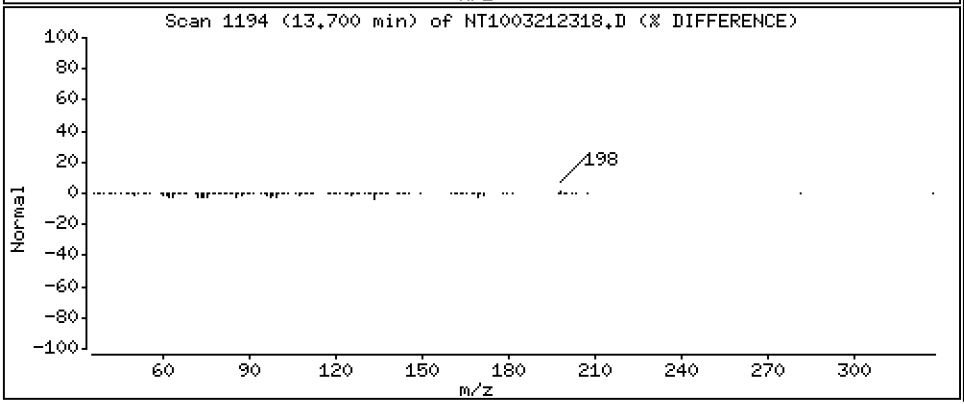
35 2,4,5-Trichlorophenol

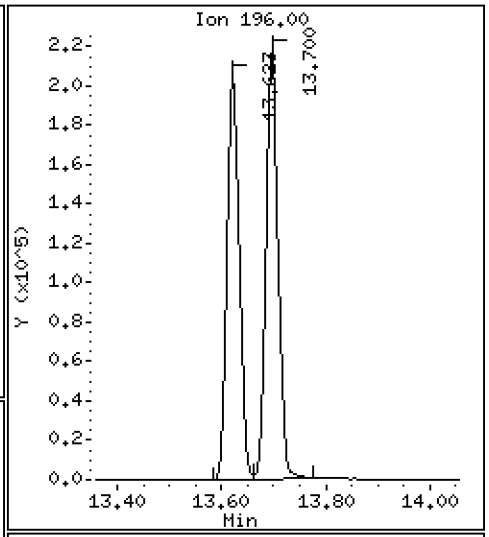
Concentration: 10.65 ug/mL

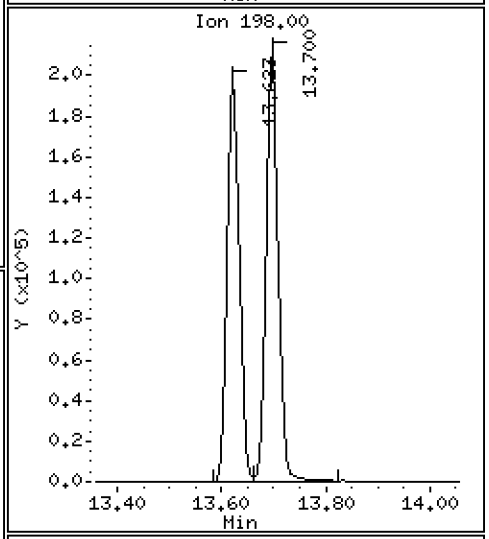


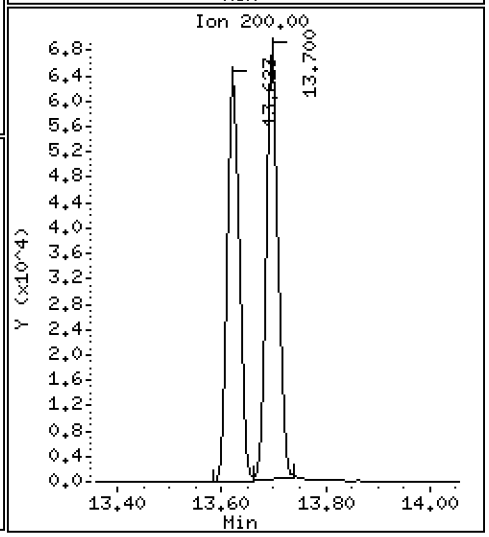












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Date : 22-MAR-2023 04:03

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-CCV1

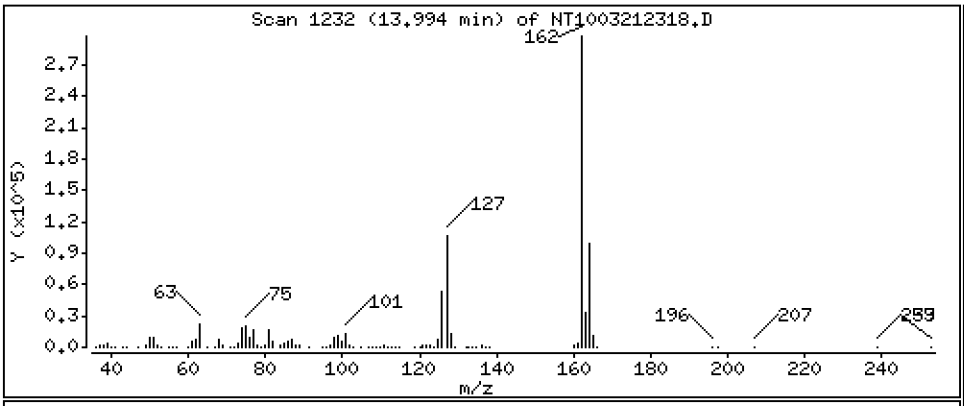
Operator: VTS

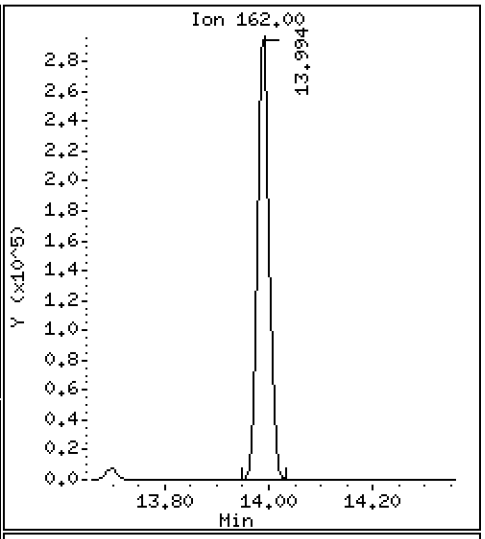
Column phase: ZB-5msi

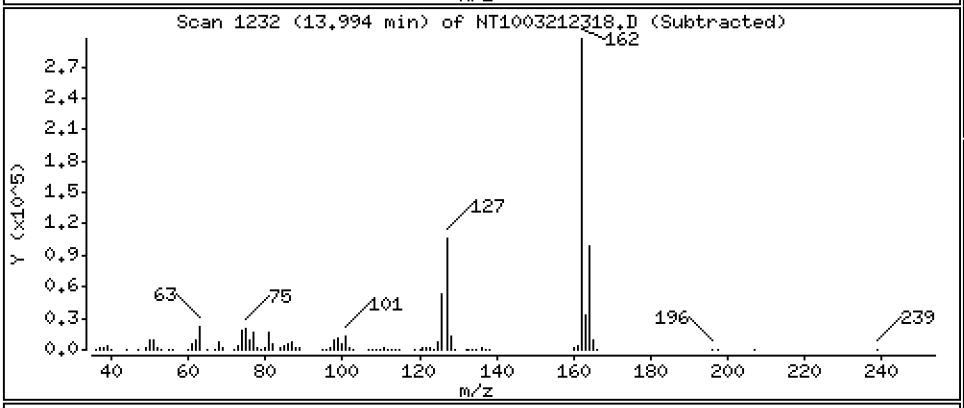
Column diameter: 0.25

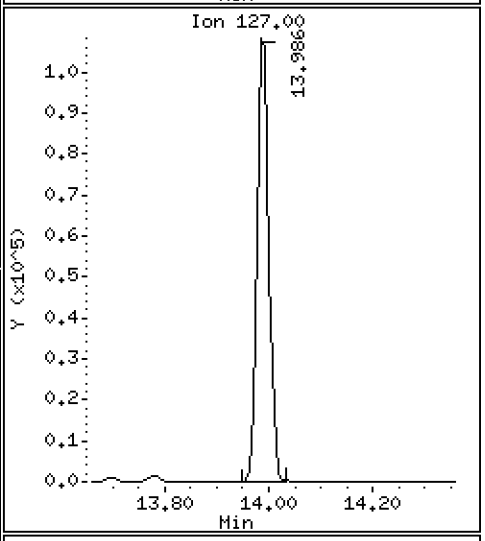
37 2-Chloronaphthalene

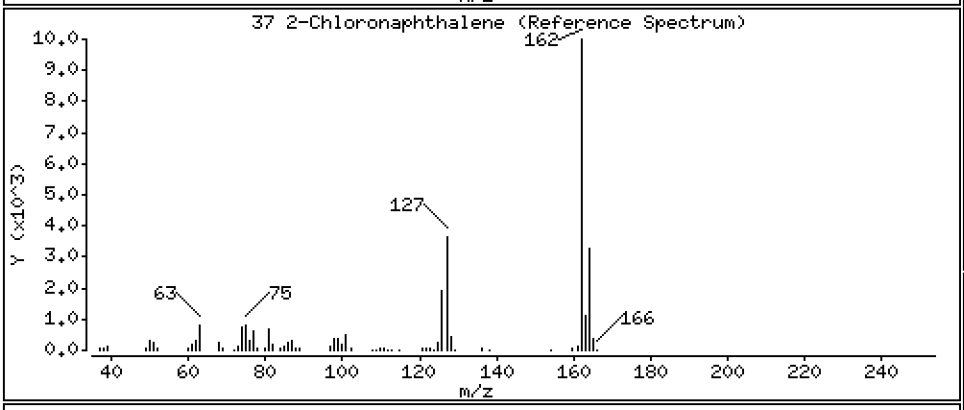
Concentration: 4.903 ug/mL

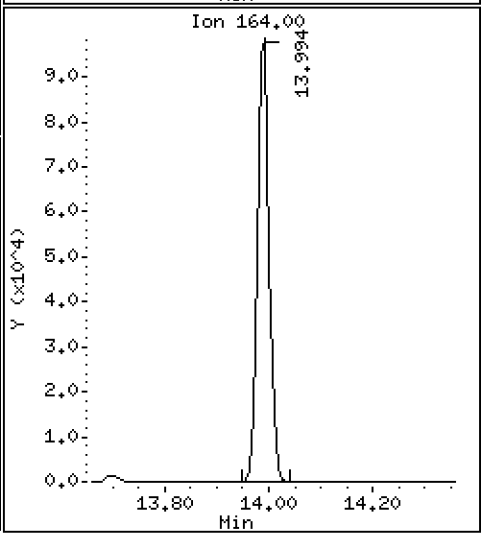


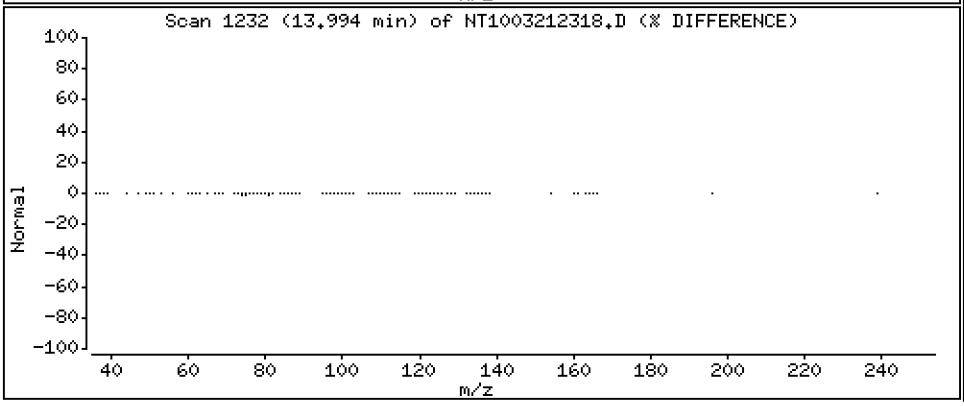












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Date : 22-MAR-2023 04:03

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-CCV1

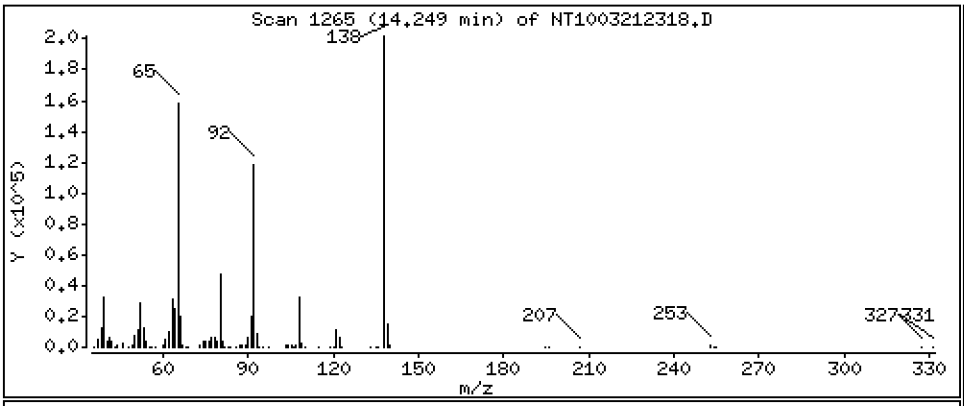
Operator: VTS

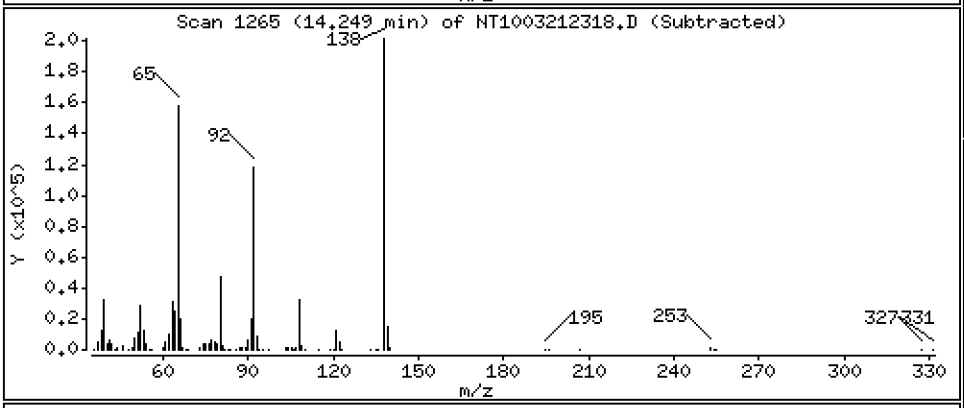
Column phase: ZB-5msi

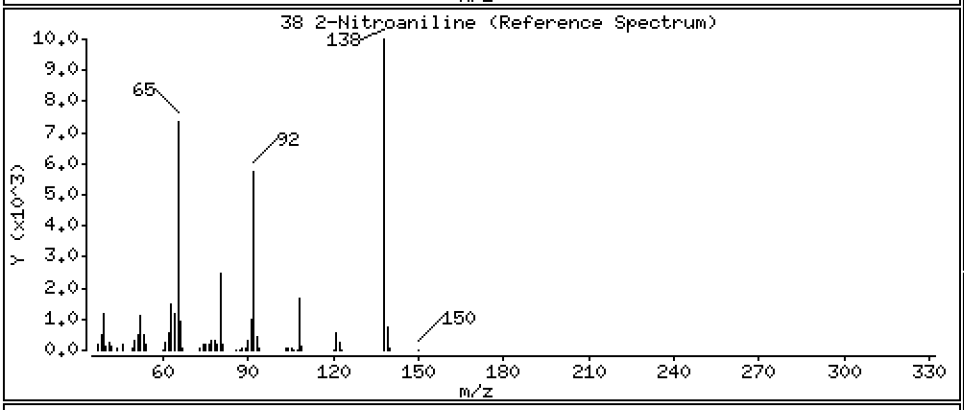
Column diameter: 0.25

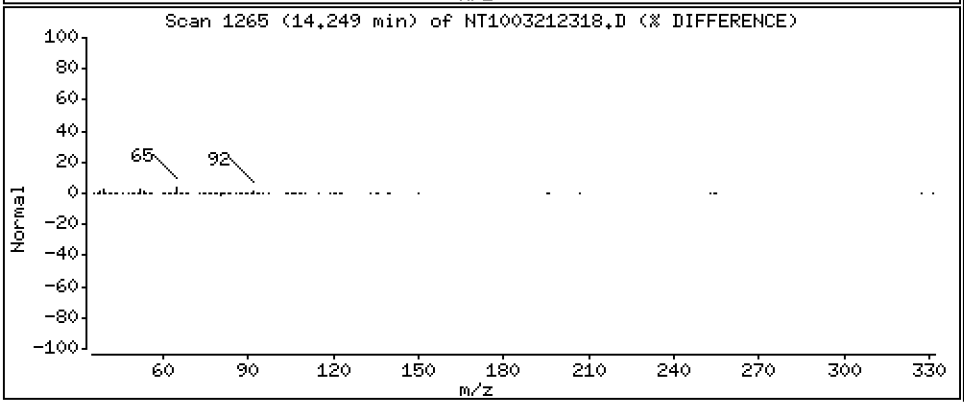
38 2-Nitroaniline

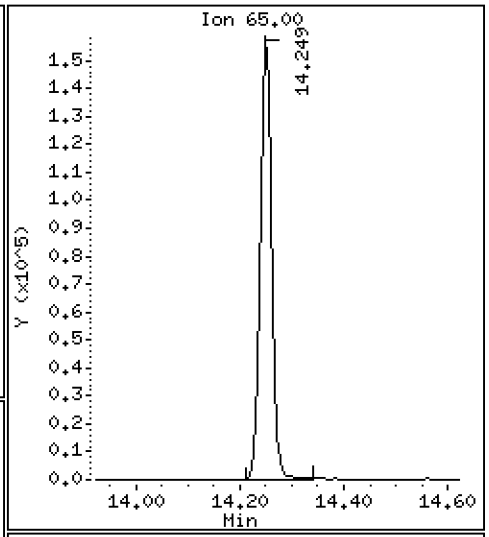
Concentration: 9.288 ug/mL

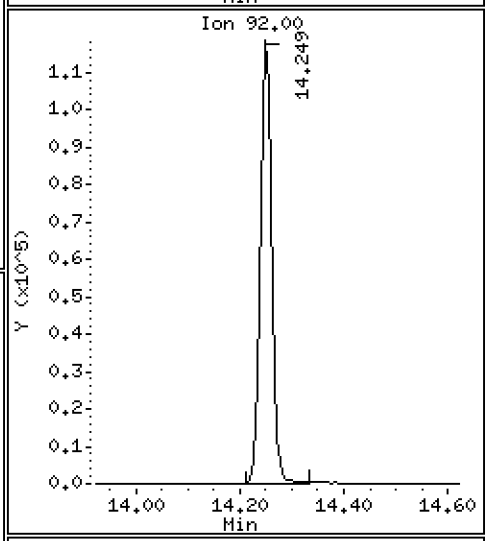


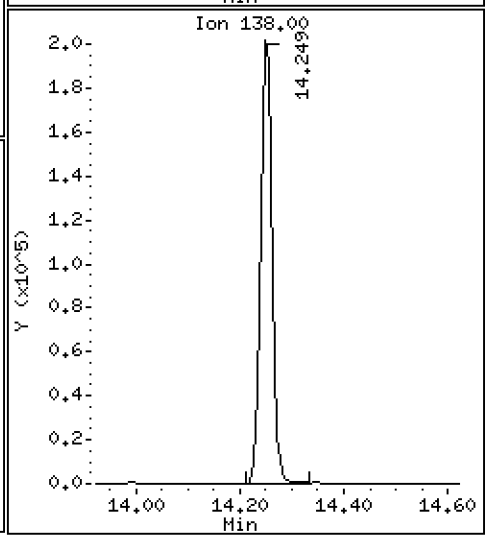












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212318.D

Date : 22-MAR-2023 04:03

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-CCV1

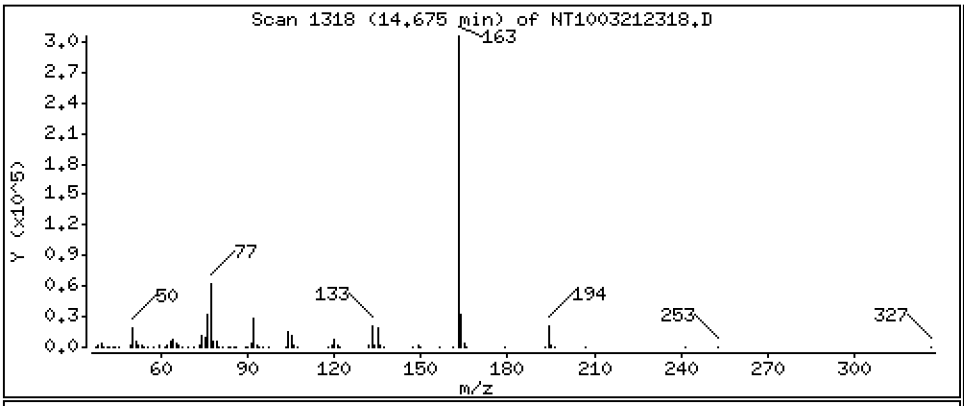
Operator: VTS

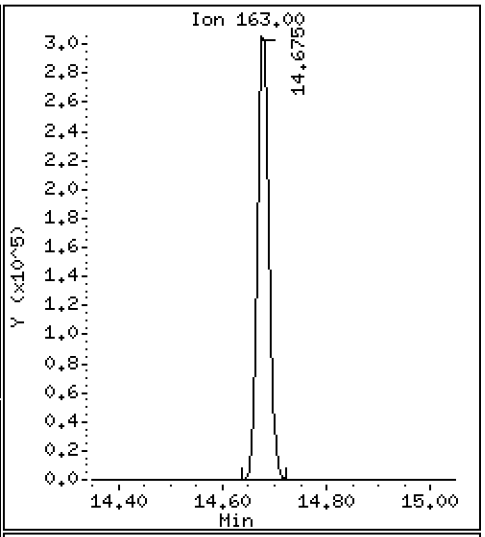
Column phase: ZB-5msi

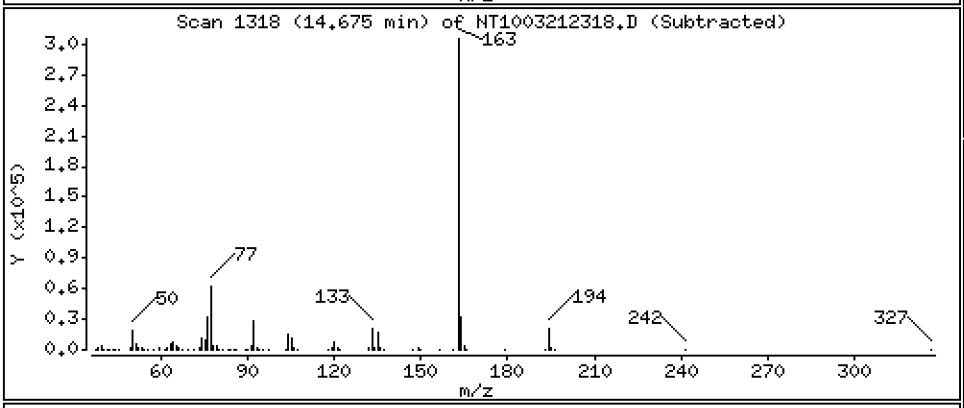
Column diameter: 0.25

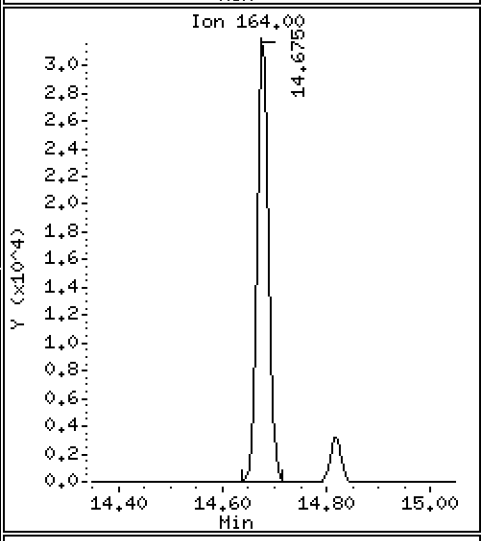
39 Dimethylphthalate

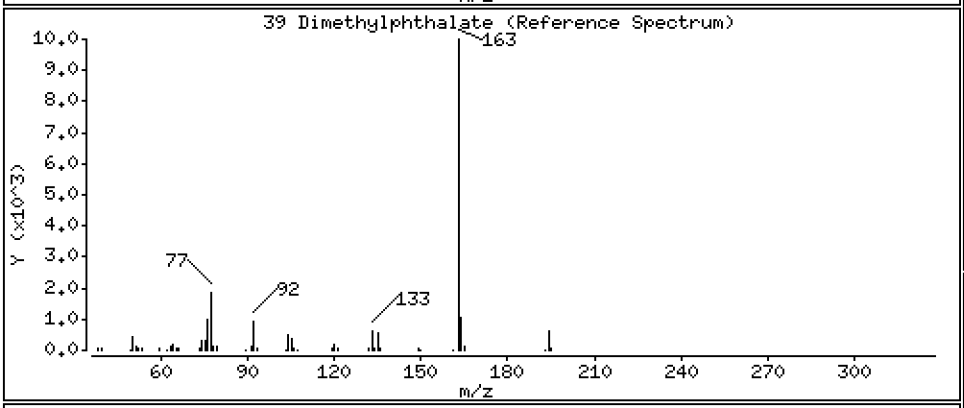
Concentration: 5.057 ug/mL

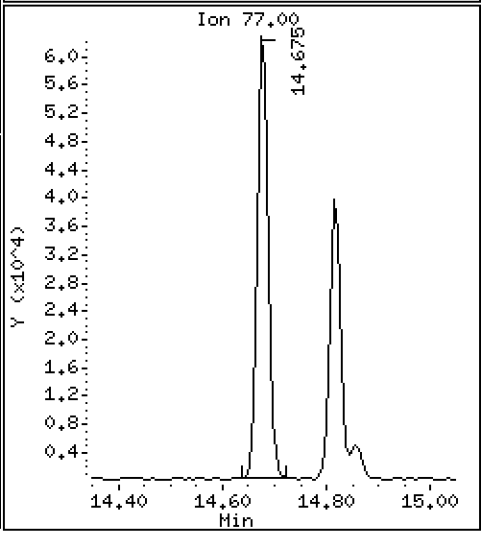


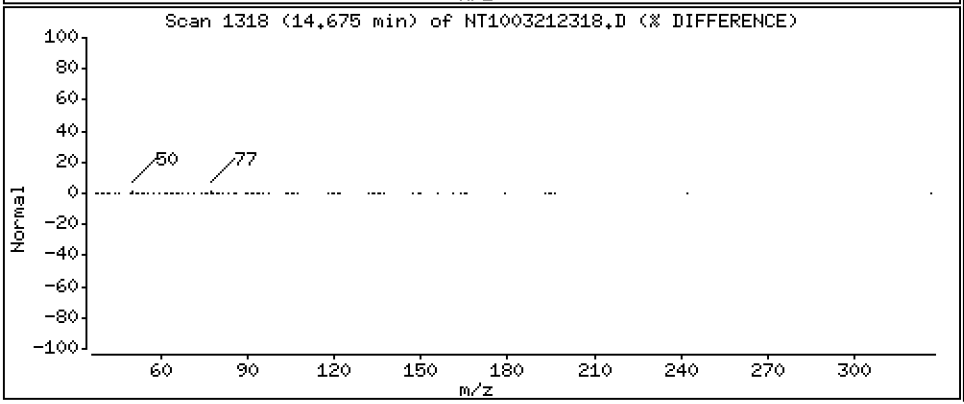












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Date : 22-MAR-2023 04:03

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-CCV1

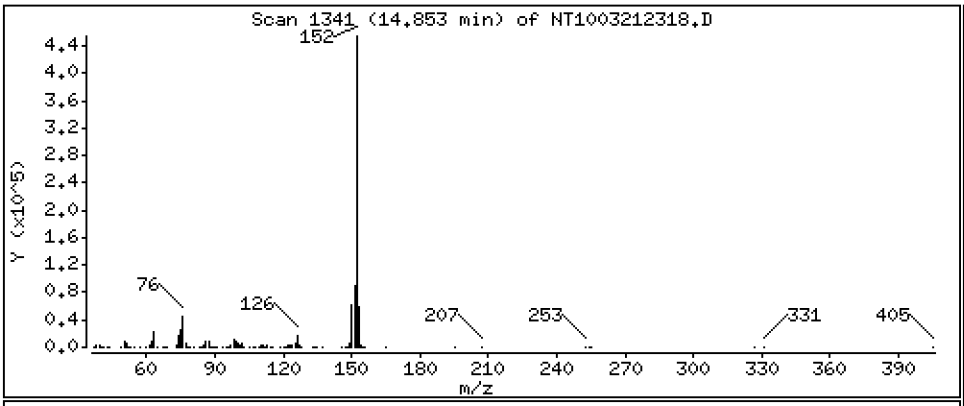
Operator: VTS

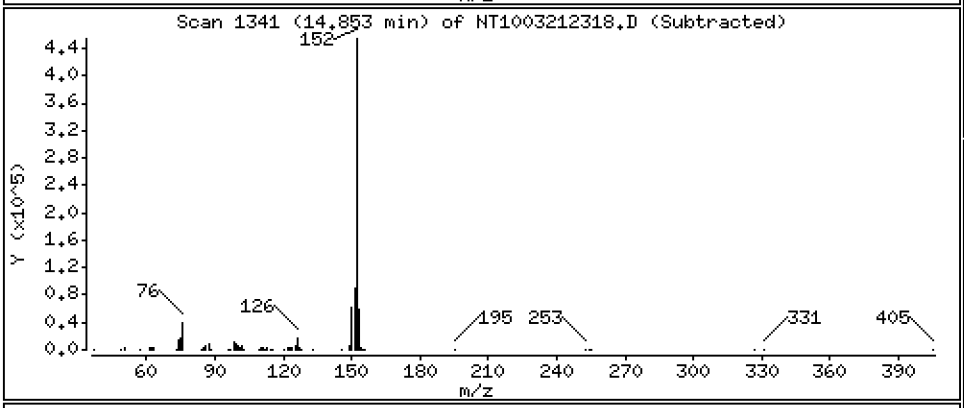
Column phase: ZB-5msi

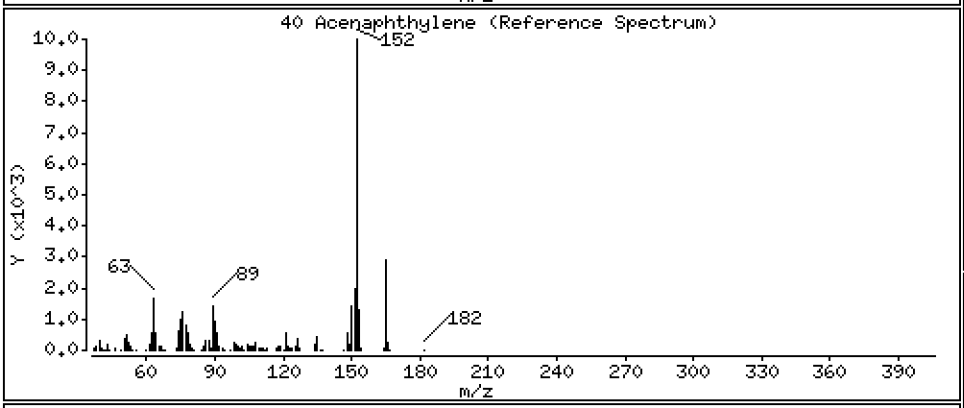
Column diameter: 0.25

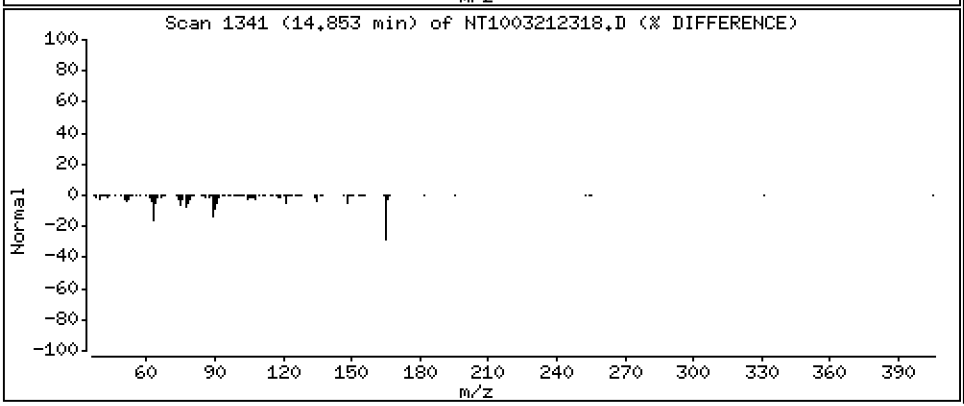
40 Acenaphthylene

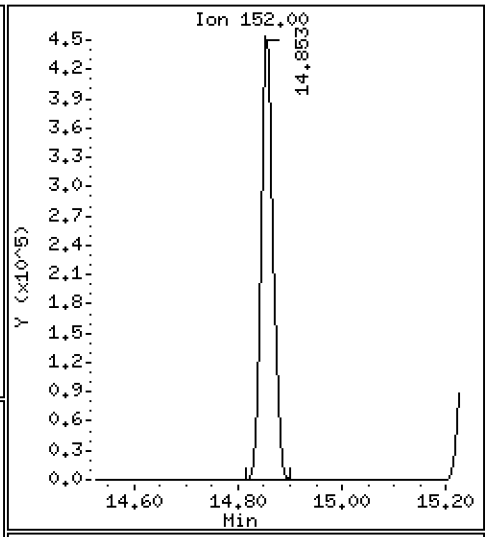
Concentration: 4.902 ug/mL

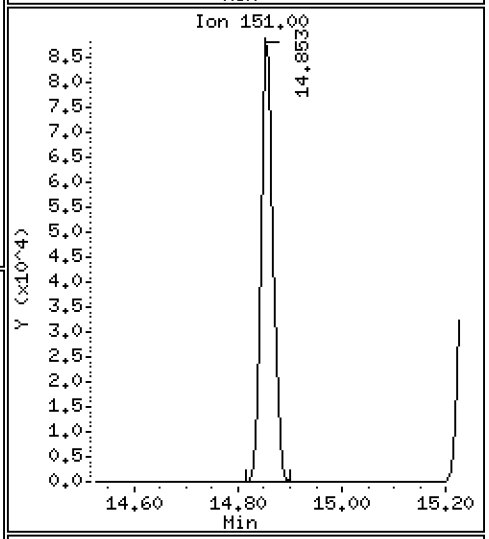


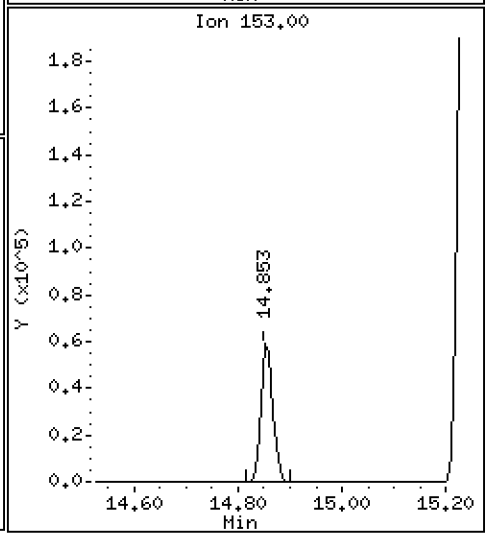












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Date : 22-MAR-2023 04:03

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-CCV1

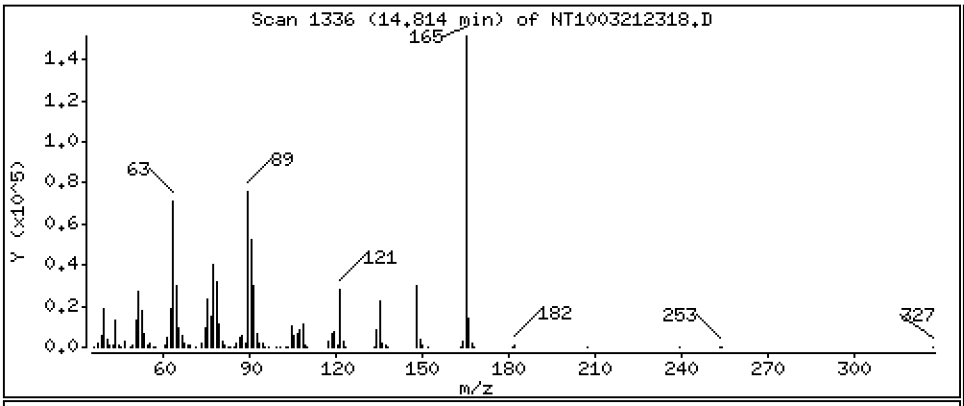
Operator: VTS

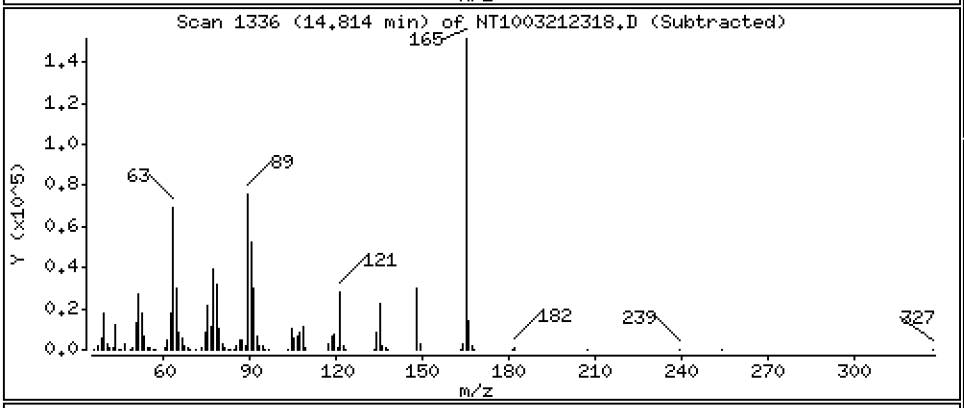
Column phase: ZB-5msi

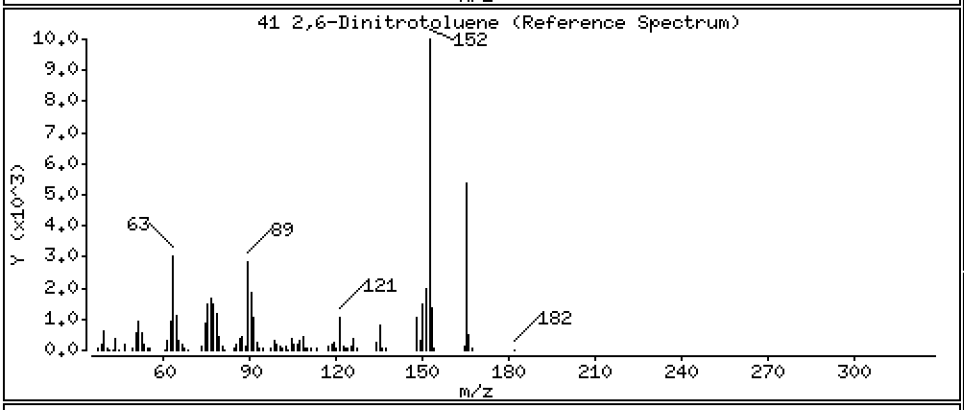
Column diameter: 0.25

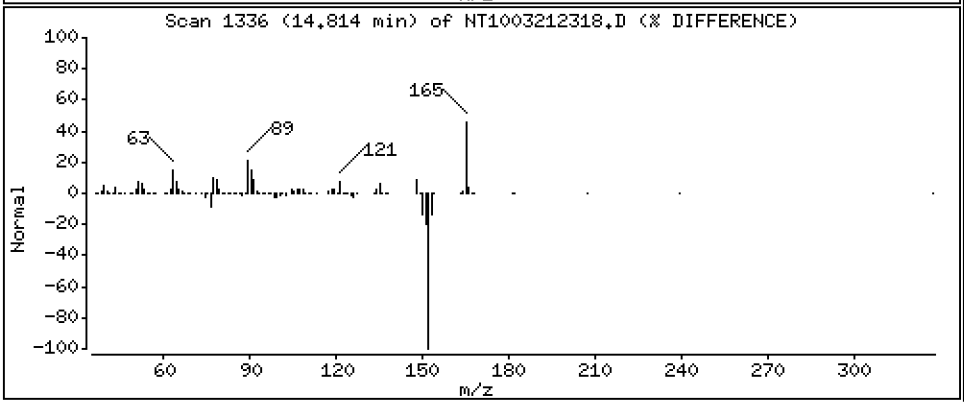
41 2,6-Dinitrotoluene

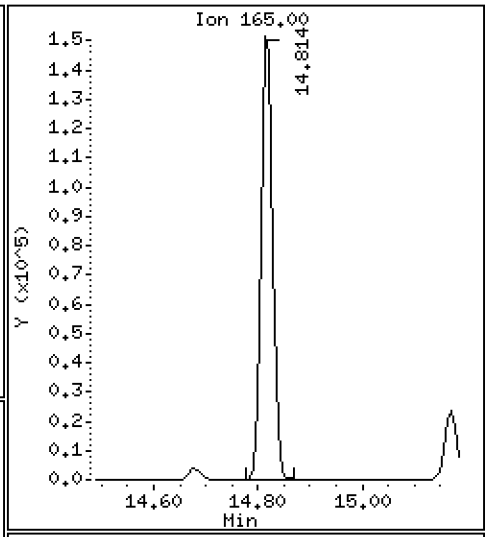
Concentration: 11.33 ug/mL

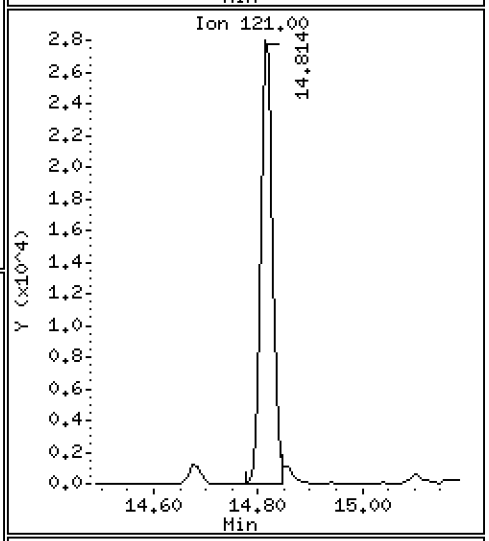


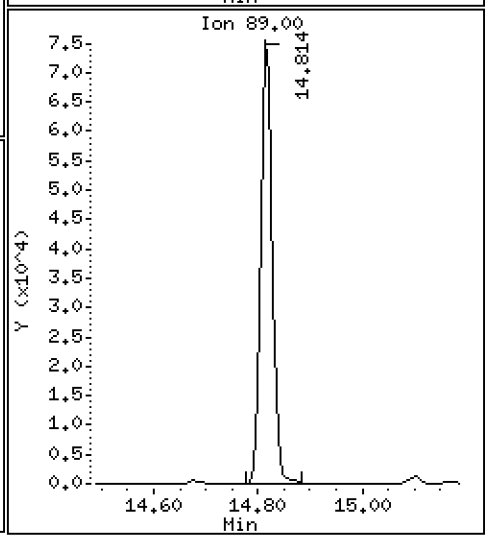












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Date : 22-MAR-2023 04:03

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-CCV1

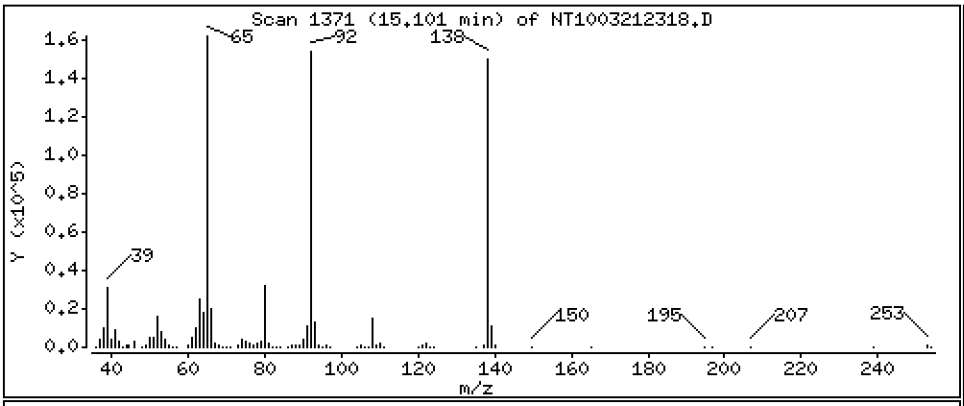
Operator: VTS

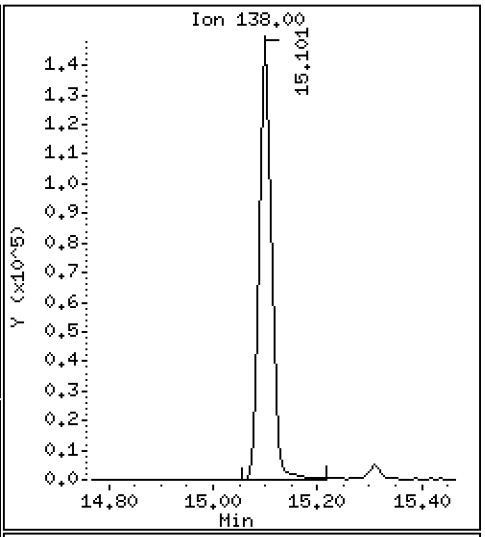
Column phase: ZB-5msi

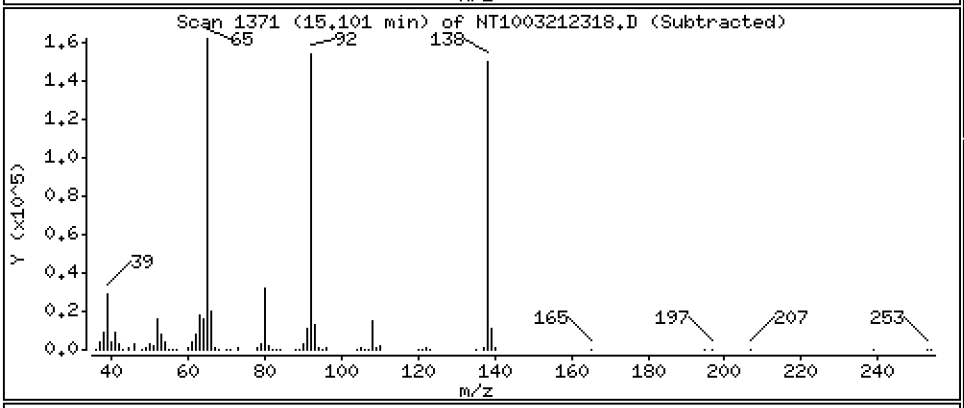
Column diameter: 0.25

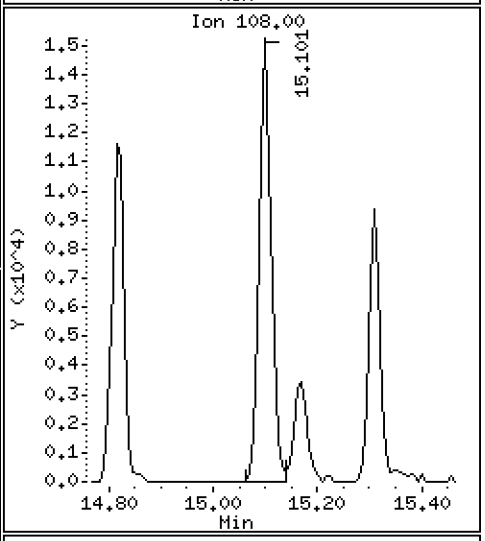
43 3-Nitroaniline

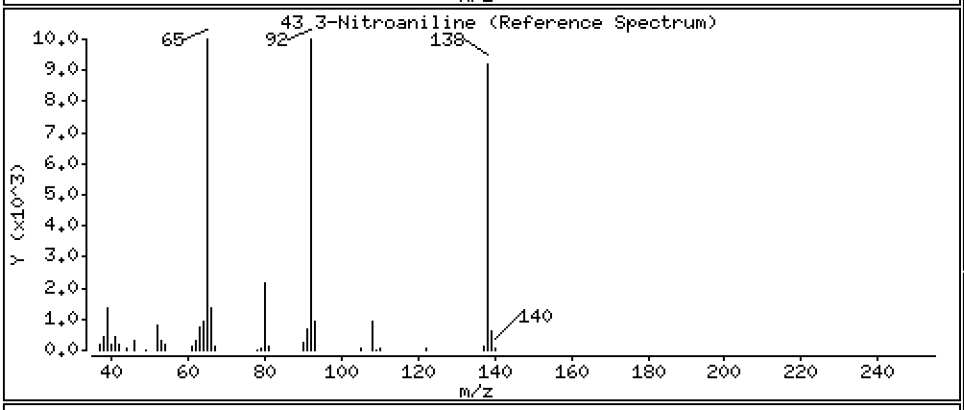
Concentration: 10.22 ug/mL

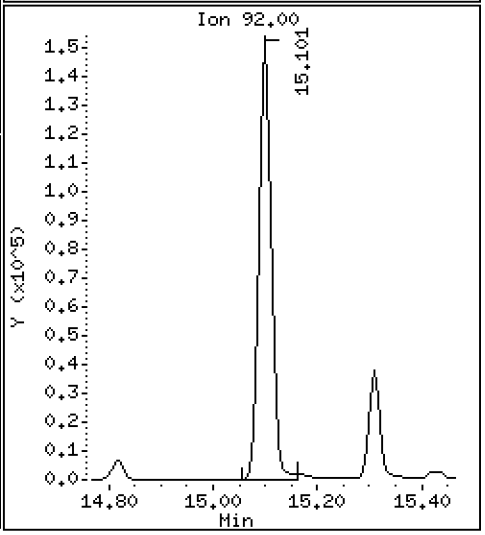


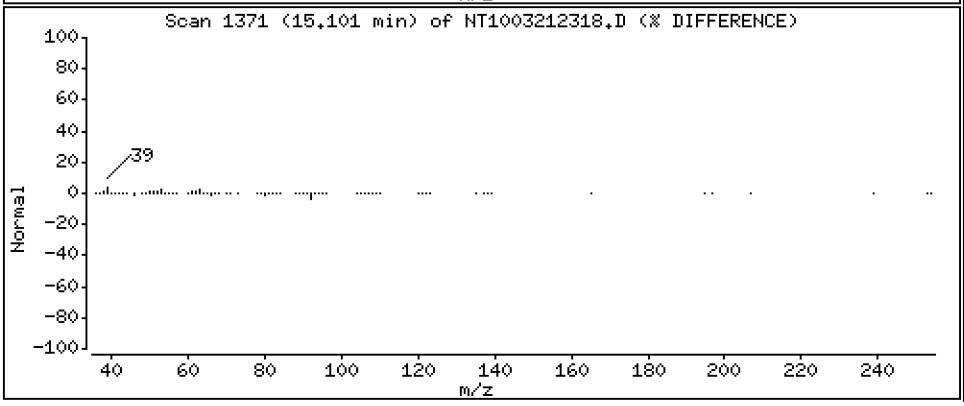












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Date : 22-MAR-2023 04:03

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-CCV1

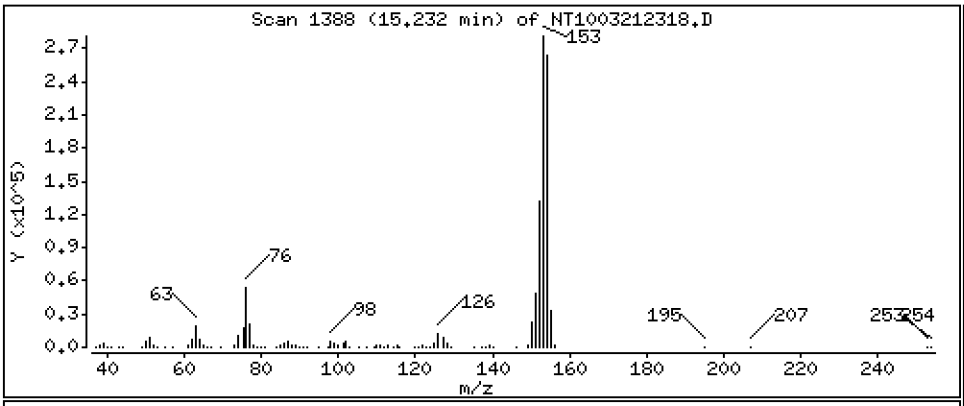
Operator: VTS

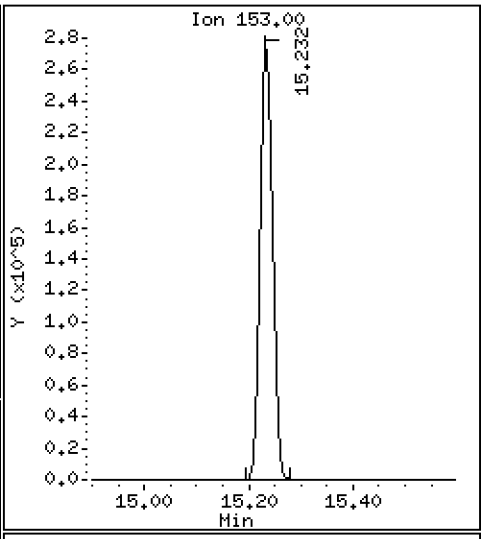
Column phase: ZB-5msi

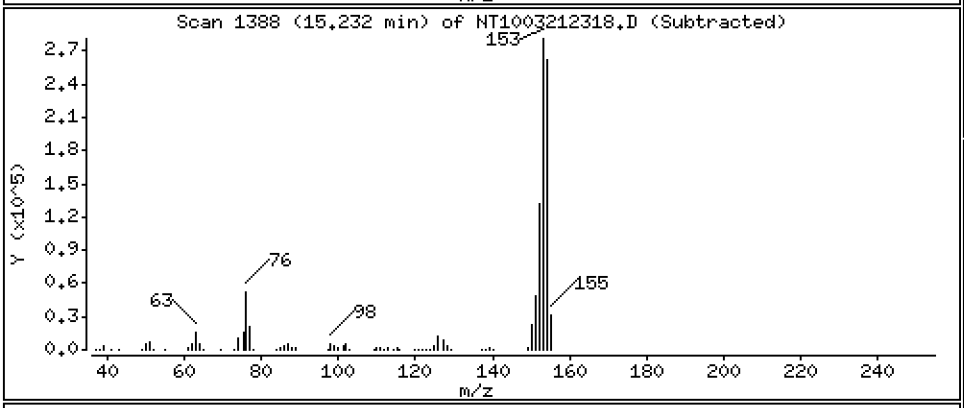
Column diameter: 0.25

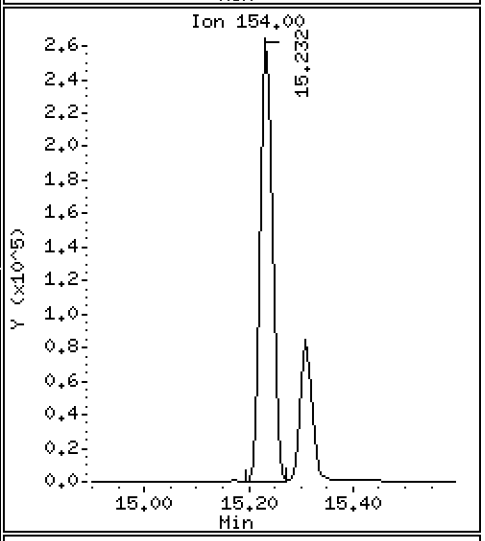
44 Acenaphthene

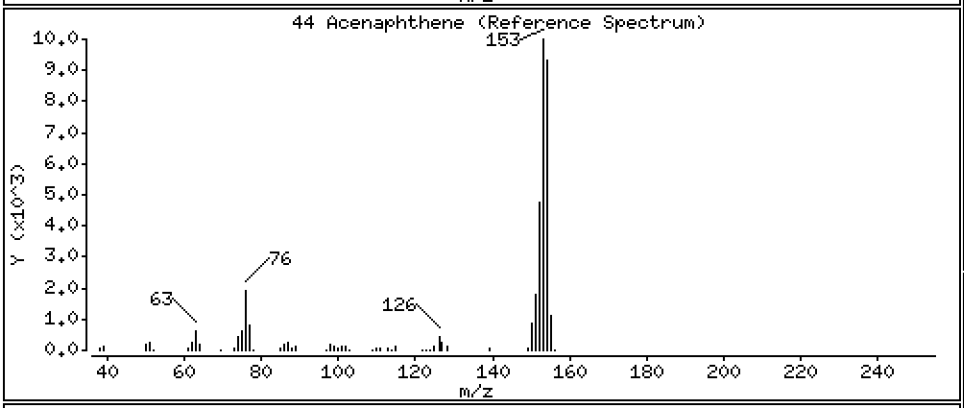
Concentration: 4.854 ug/mL

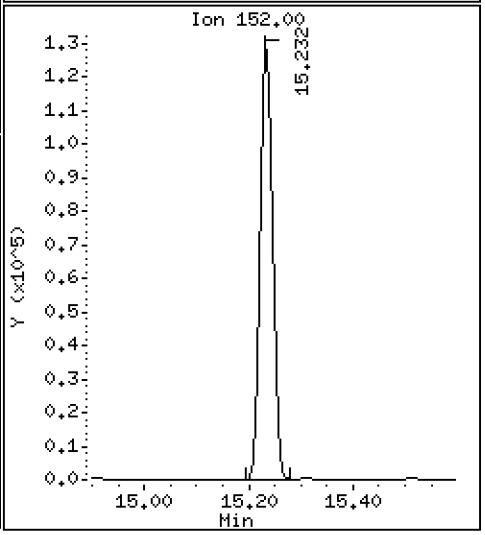


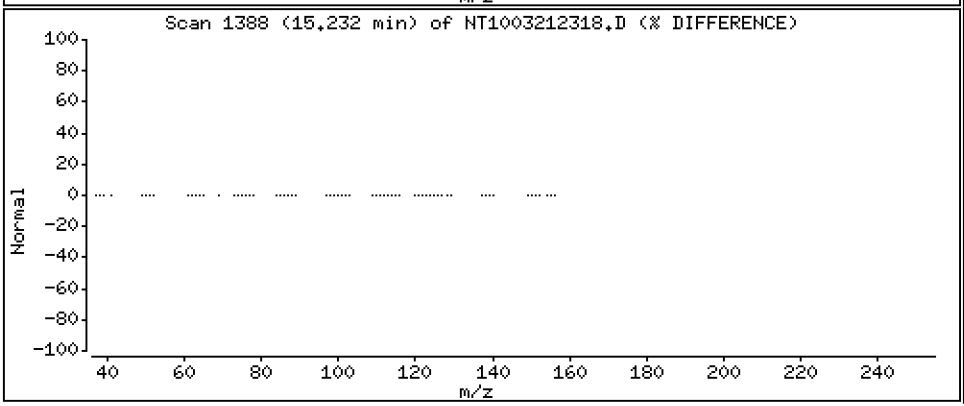












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Date : 22-MAR-2023 04:03

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-CCV1

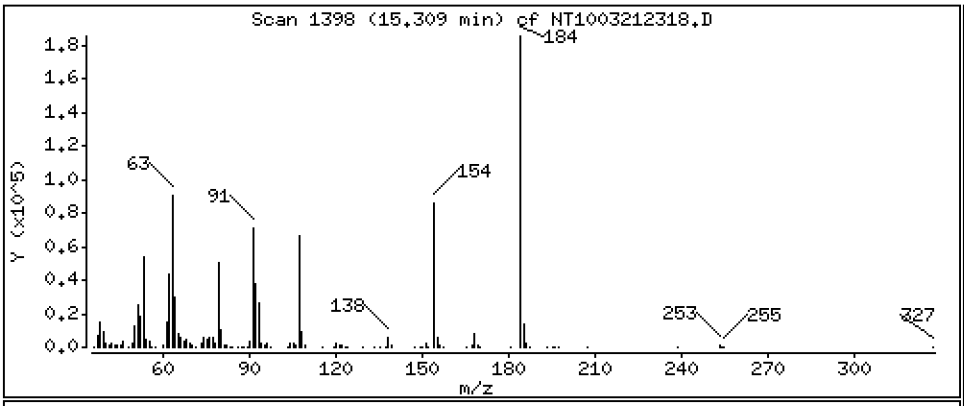
Operator: VTS

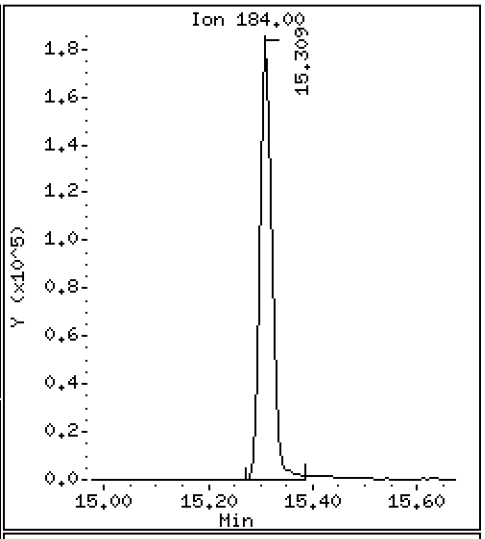
Column phase: ZB-5msi

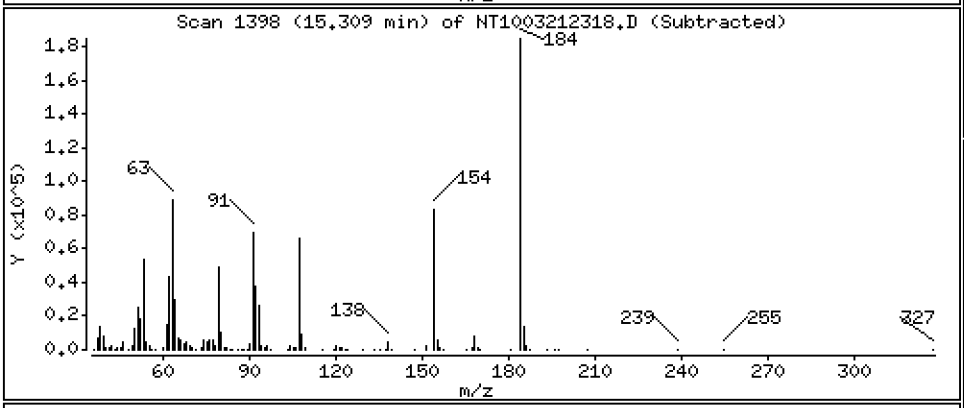
Column diameter: 0.25

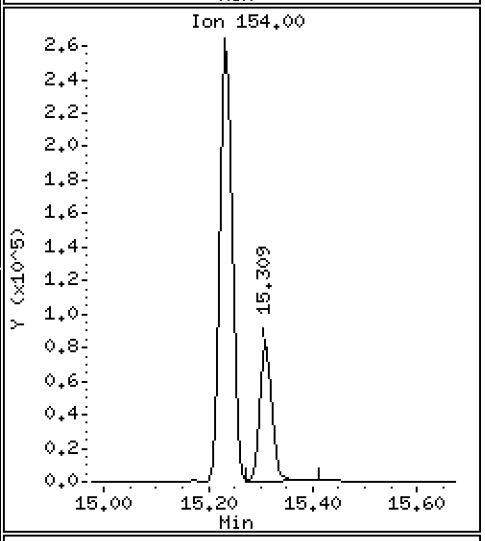
45 2,4-Dinitrophenol

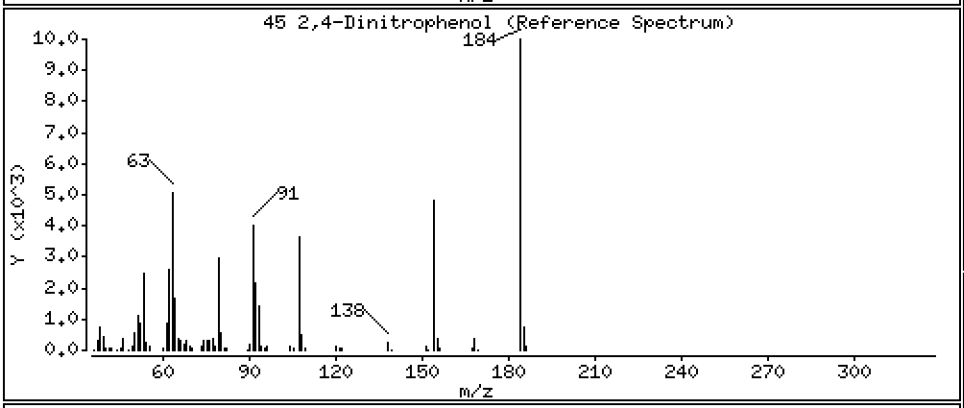
Concentration: 21.86 ug/mL

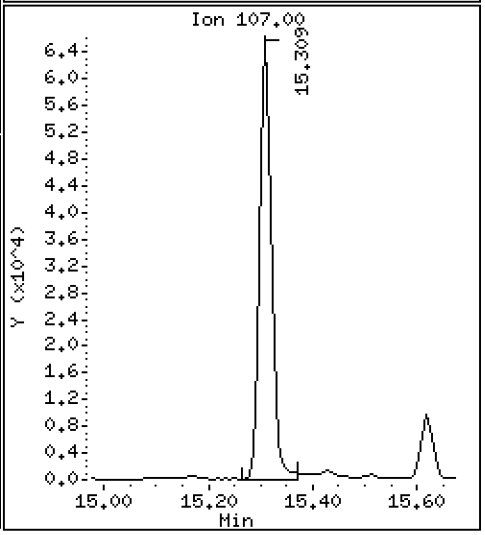


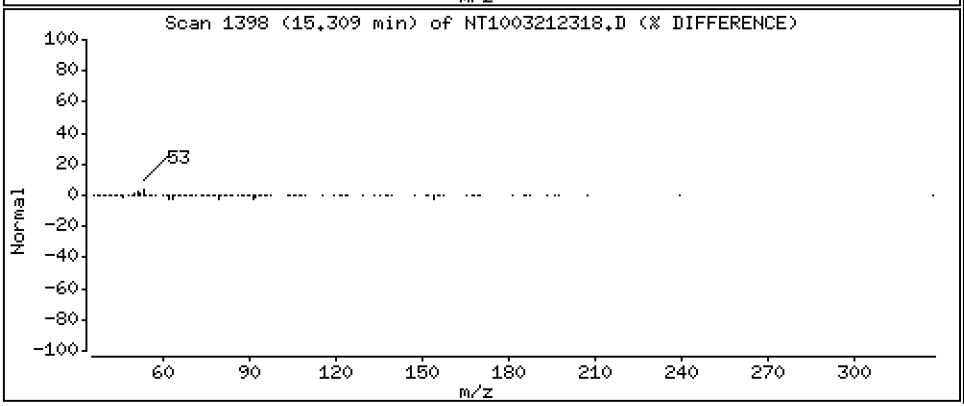












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Date : 22-MAR-2023 04:03

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-CCV1

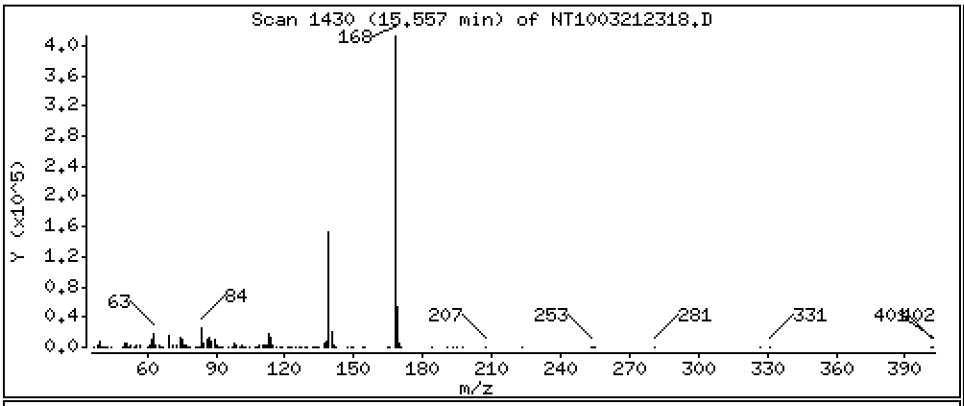
Operator: VTS

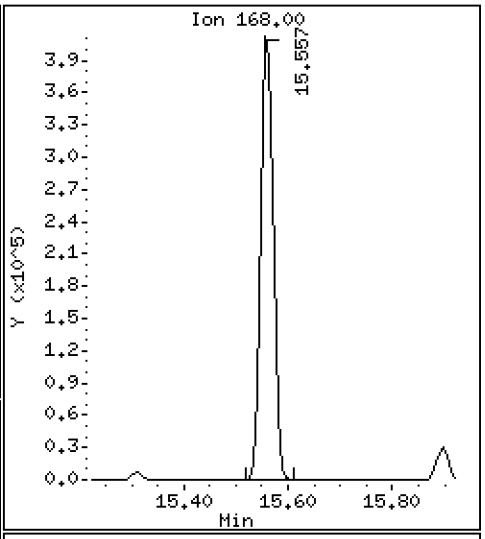
Column phase: ZB-5msi

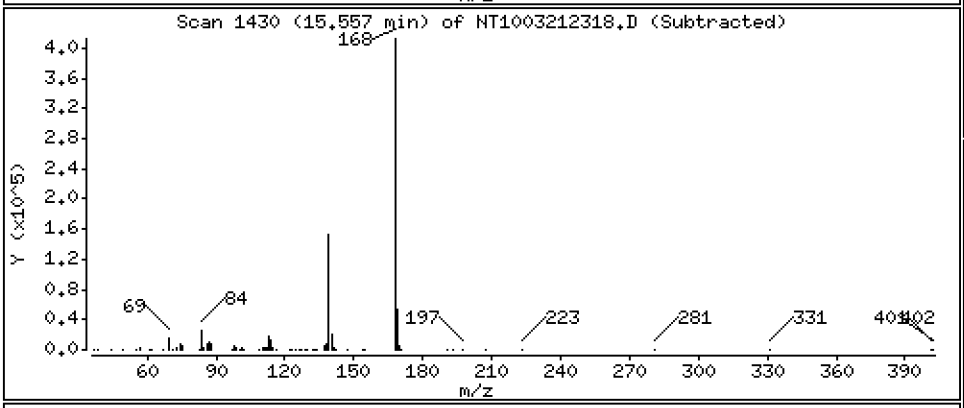
Column diameter: 0.25

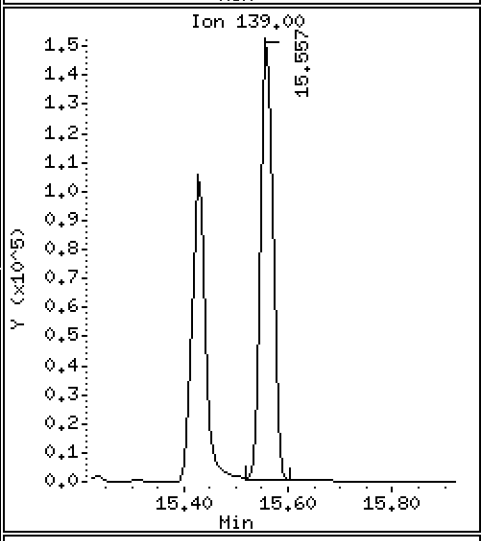
46 Dibenzofuran

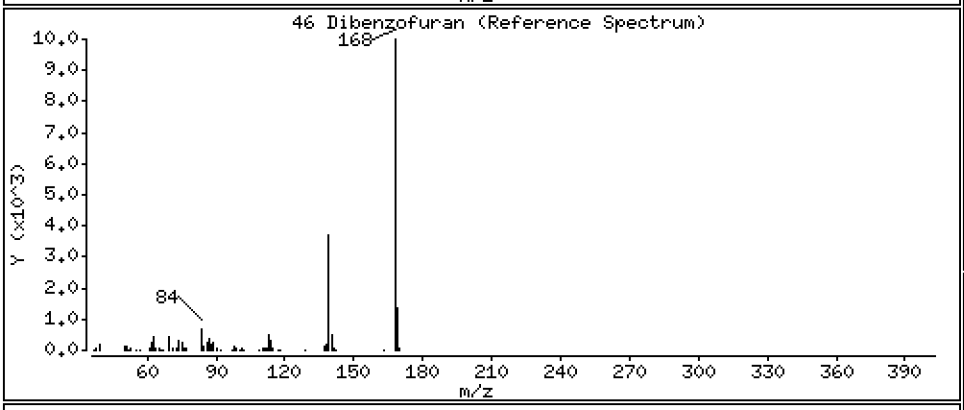
Concentration: 4.925 ug/mL

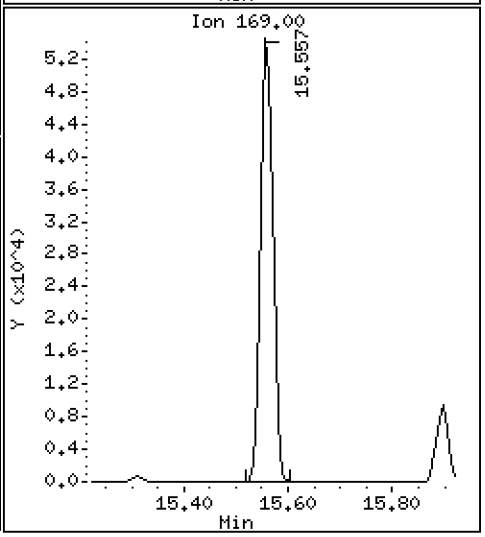


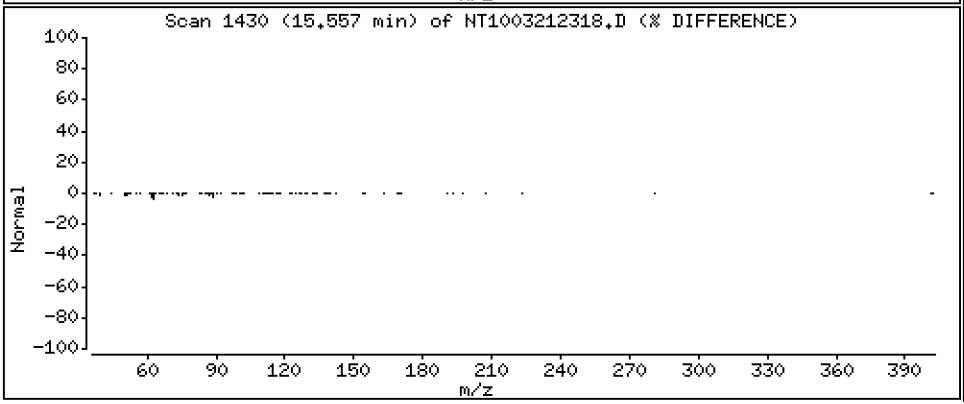












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Date : 22-MAR-2023 04:03

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-CCV1

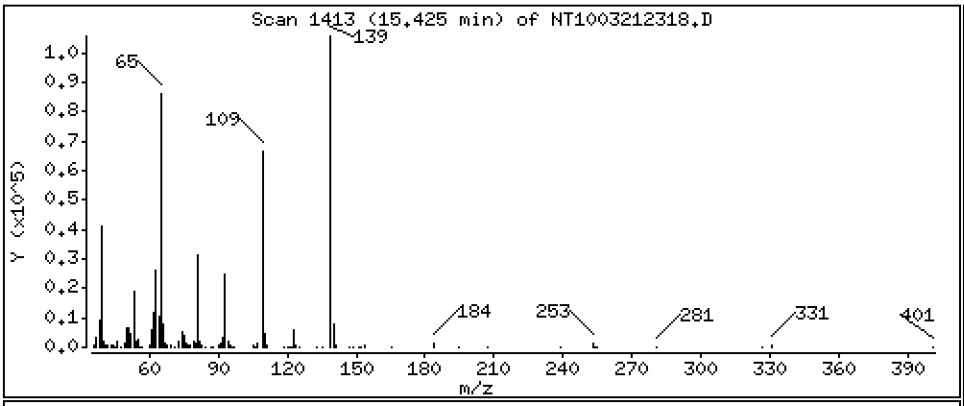
Operator: VTS

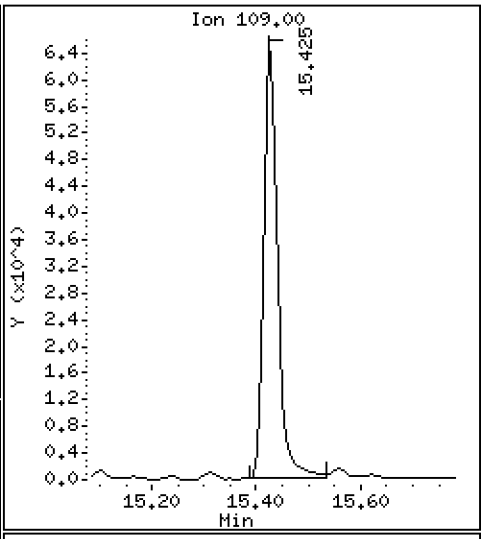
Column phase: ZB-5msi

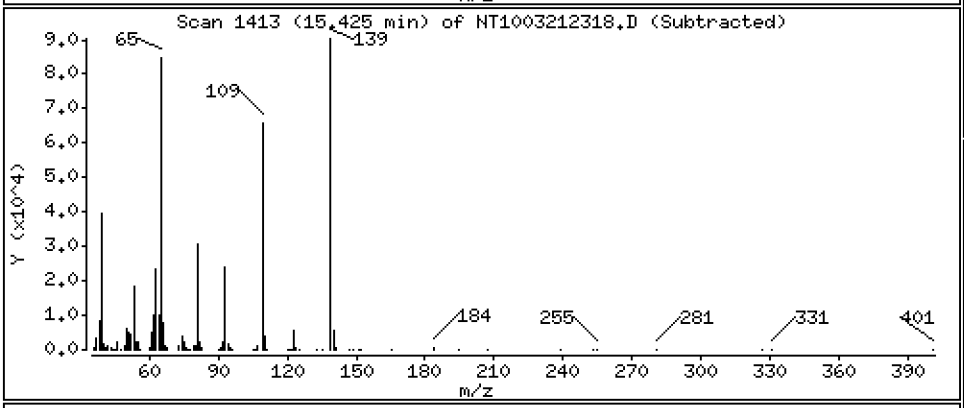
Column diameter: 0.25

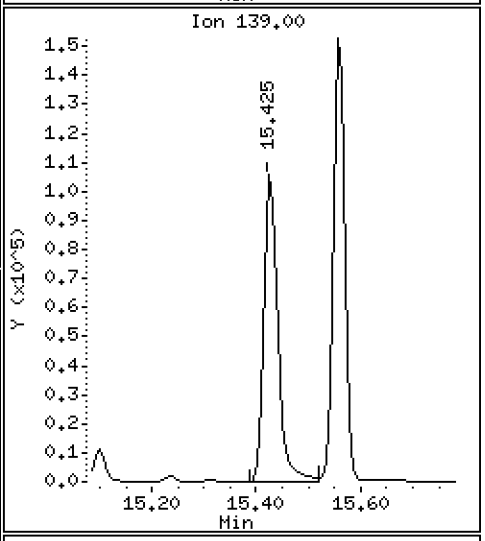
47 4-Nitrophenol

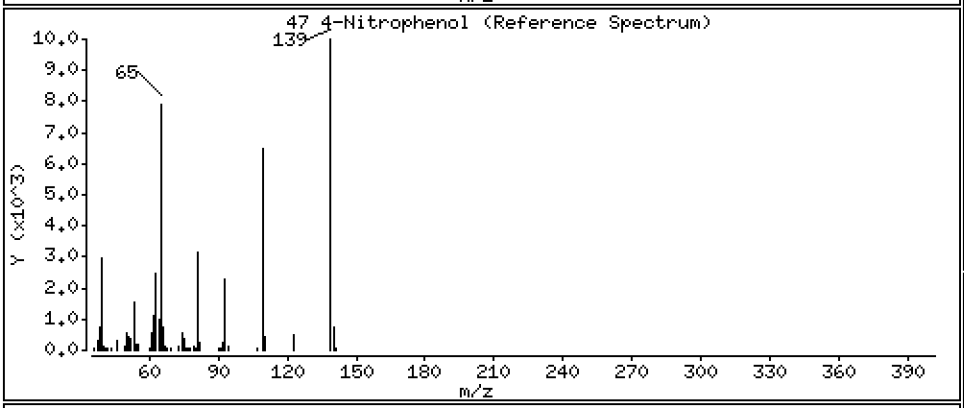
Concentration: 7.965 ug/mL

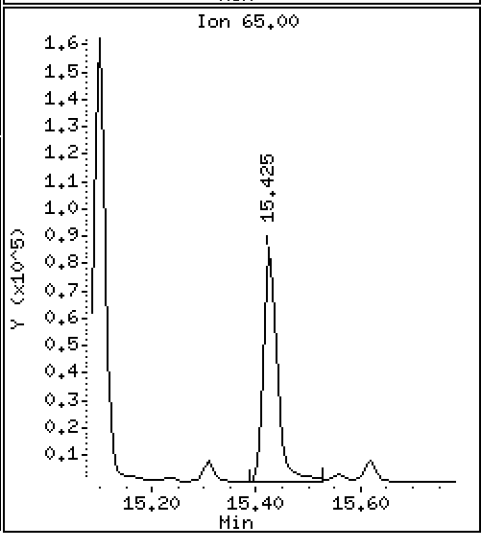


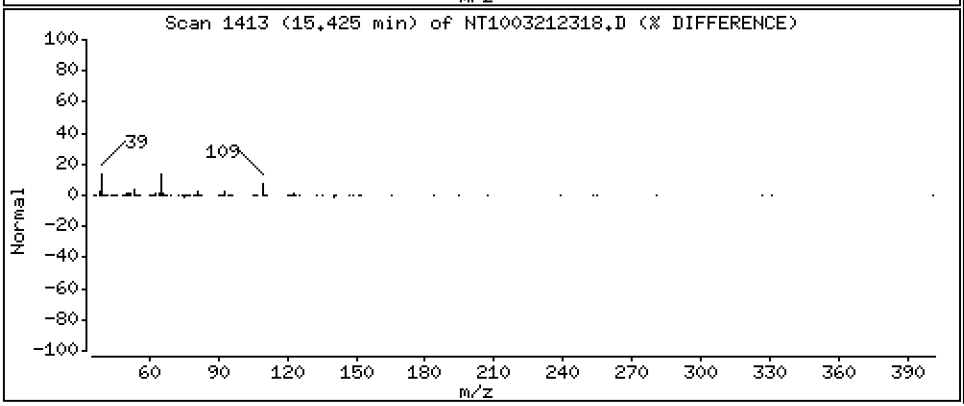












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212318.D

Date : 22-MAR-2023 04:03

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-CCV1

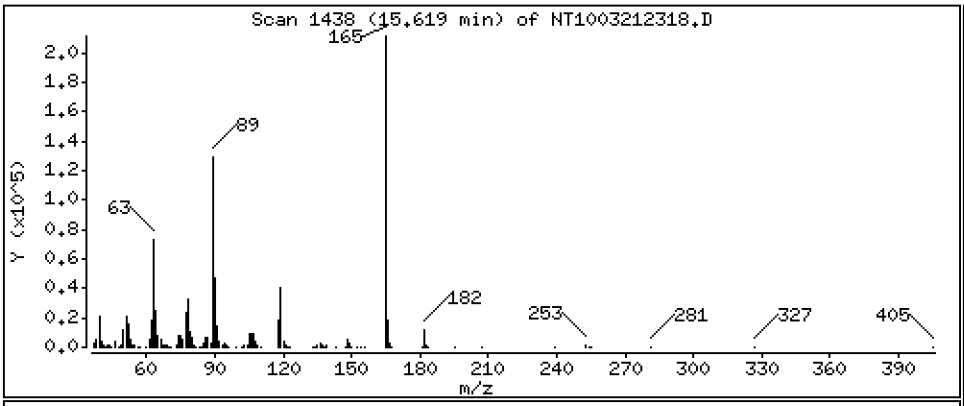
Operator: VTS

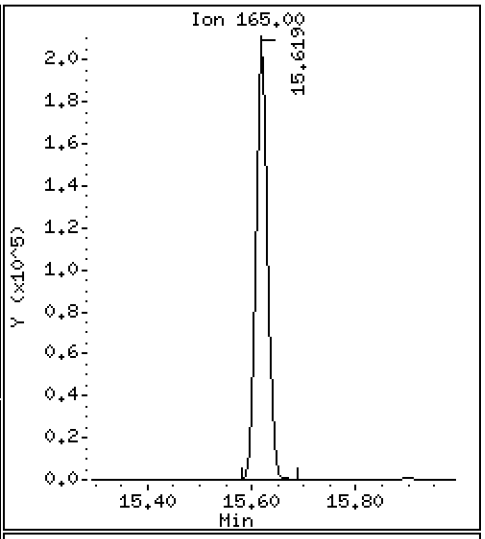
Column phase: ZB-5msi

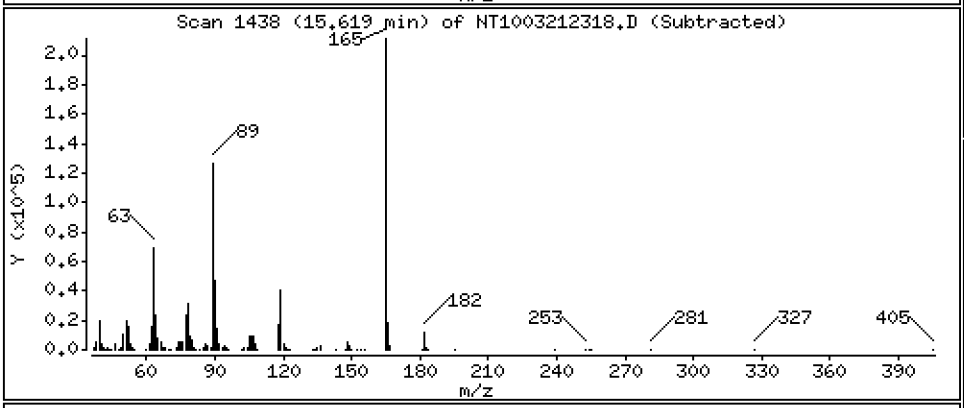
Column diameter: 0.25

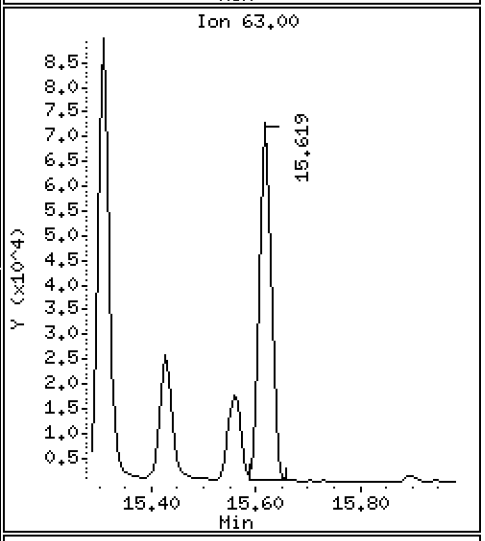
48 2,4-Dinitrotoluene

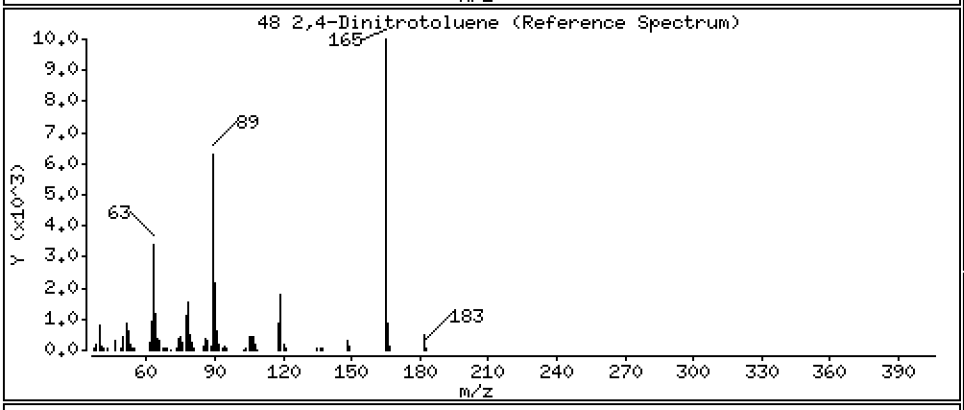
Concentration: 10.45 ug/mL

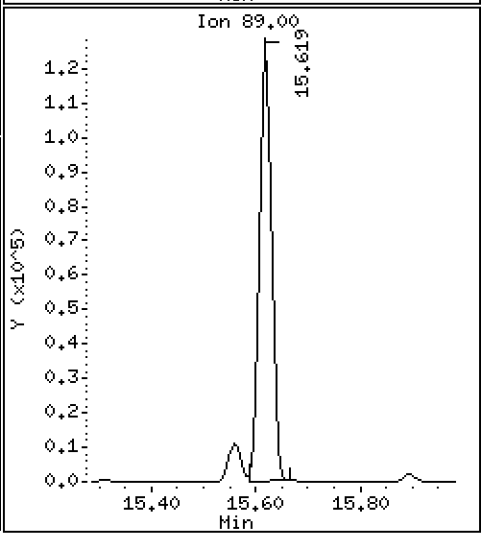


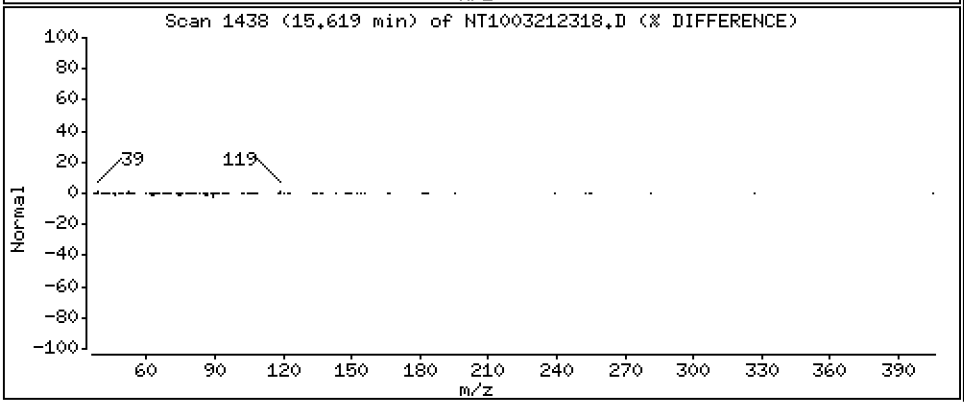












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Date : 22-MAR-2023 04:03

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-CCV1

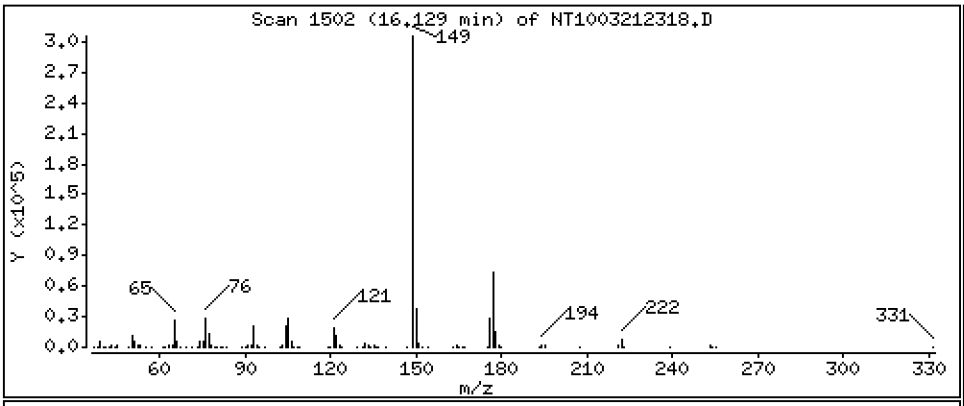
Operator: VTS

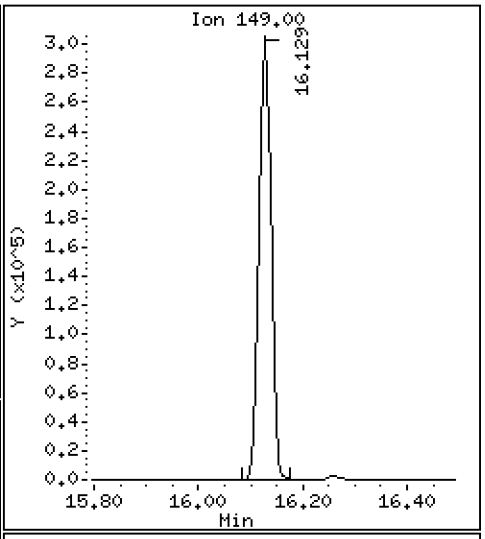
Column phase: ZB-5msi

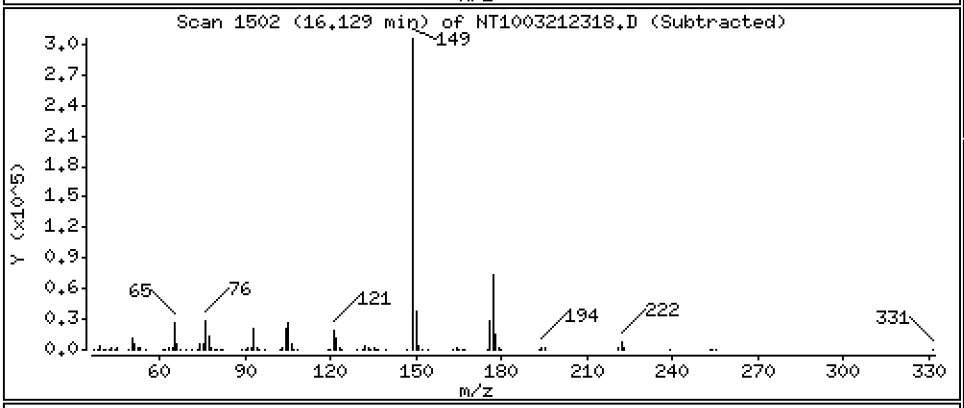
Column diameter: 0.25

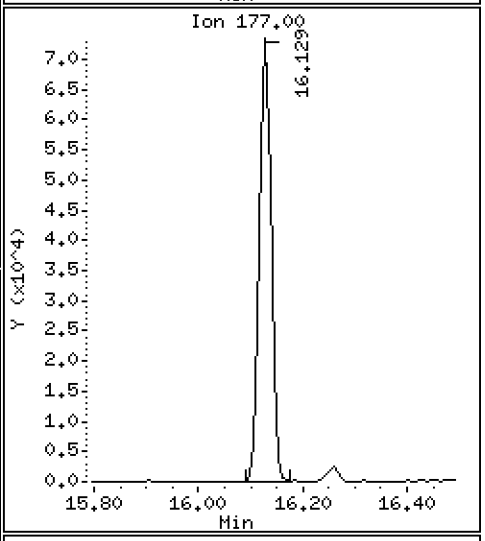
50 Diethylphthalate

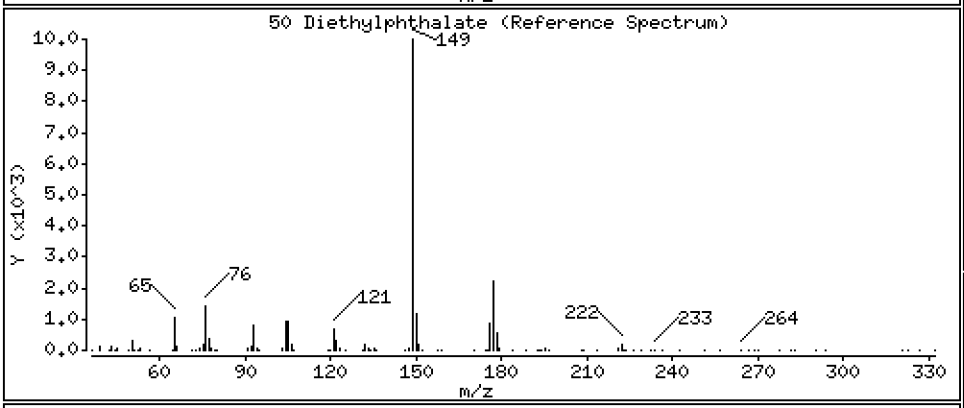
Concentration: 4.894 ug/mL

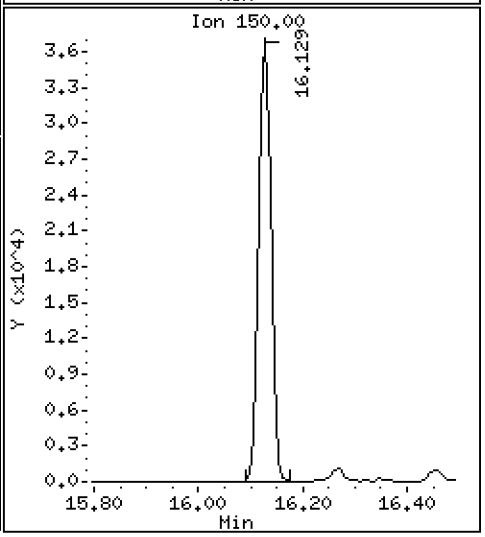


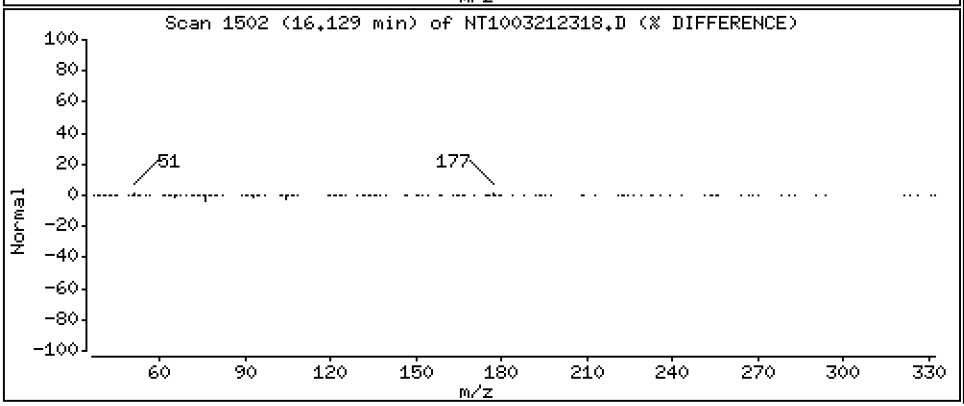












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Date : 22-MAR-2023 04:03

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-CCV1

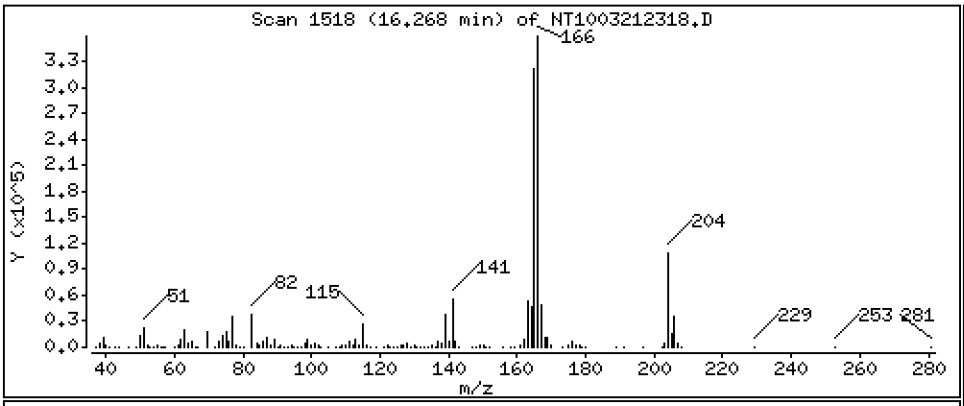
Operator: VTS

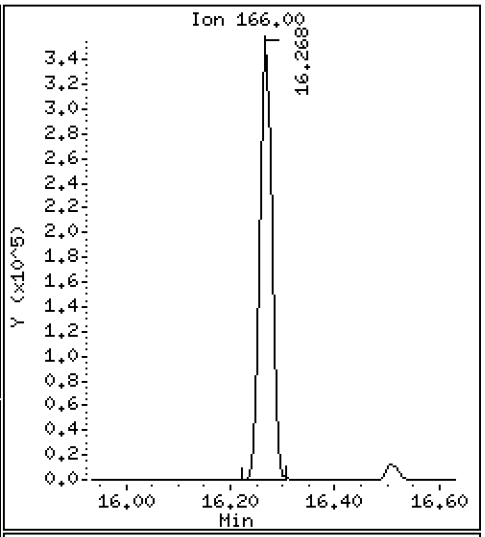
Column phase: ZB-5msi

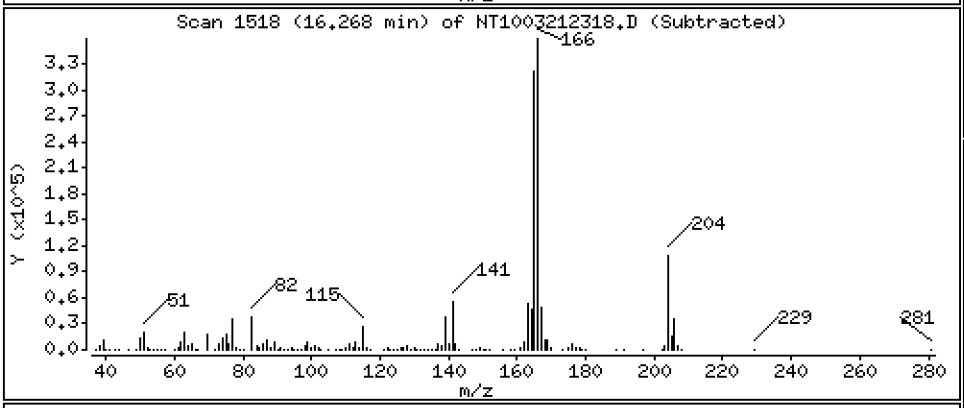
Column diameter: 0.25

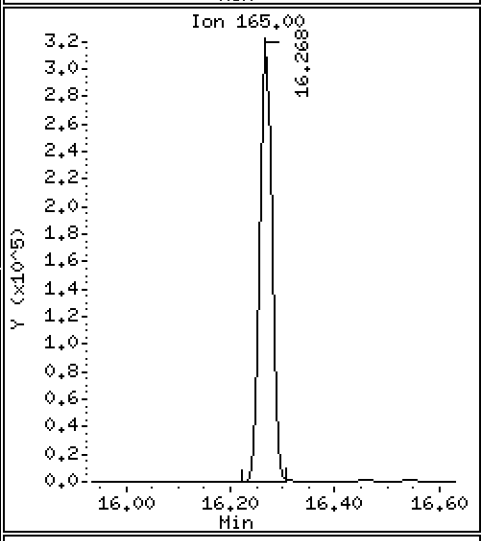
49 Fluorene

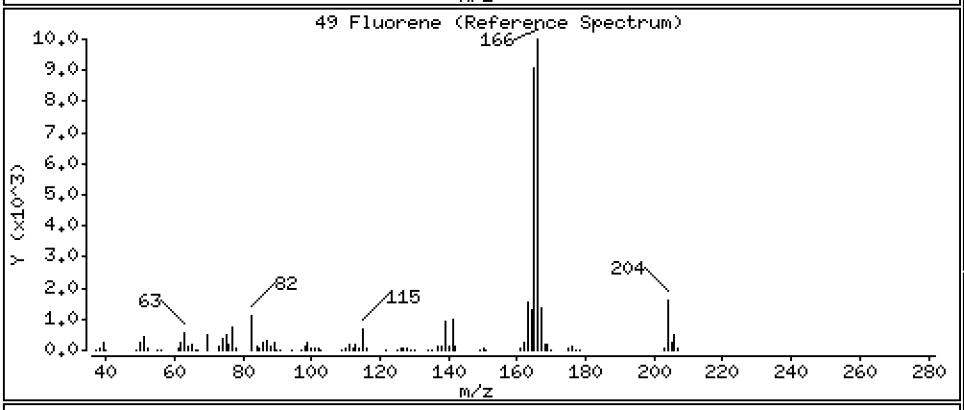
Concentration: 5.026 ug/mL

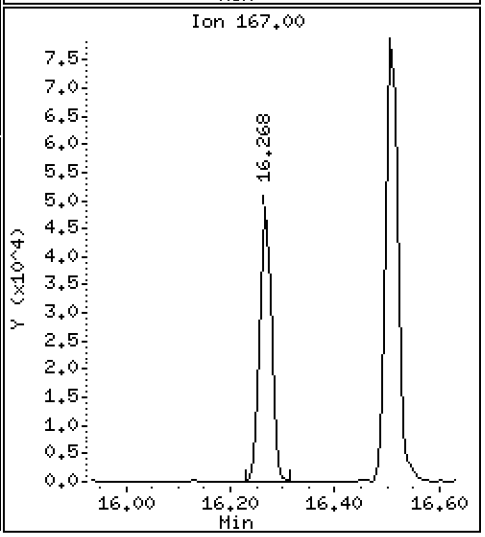


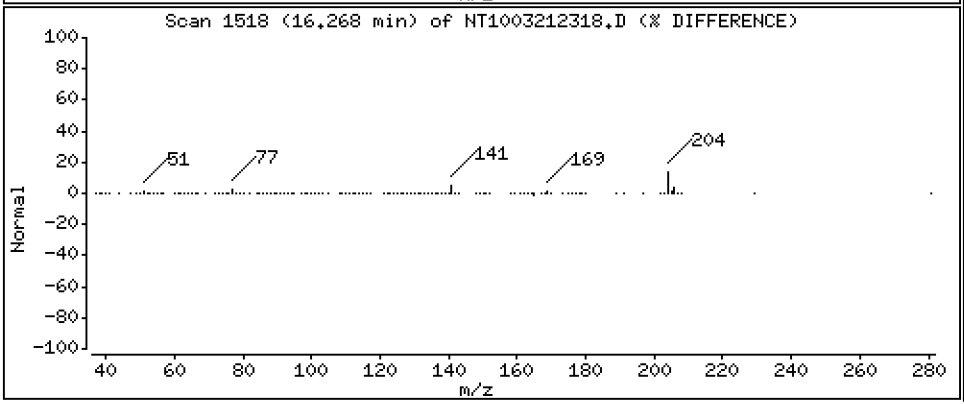












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Date : 22-MAR-2023 04:03

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-CCV1

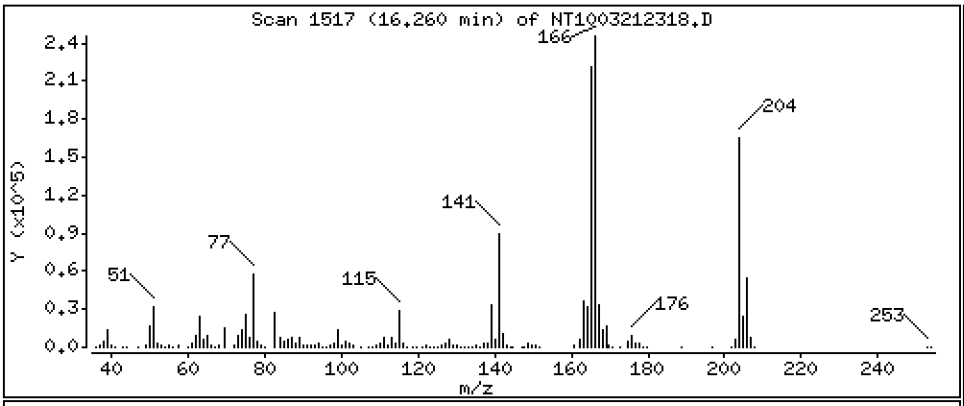
Operator: VTS

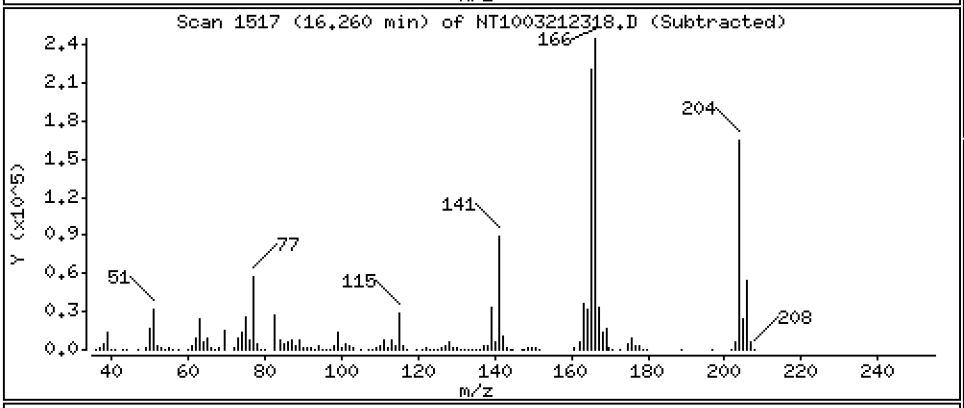
Column phase: ZB-5msi

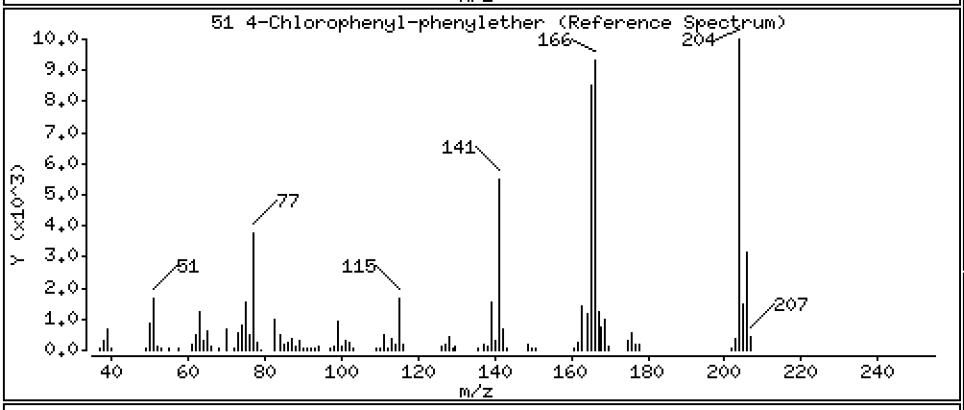
Column diameter: 0.25

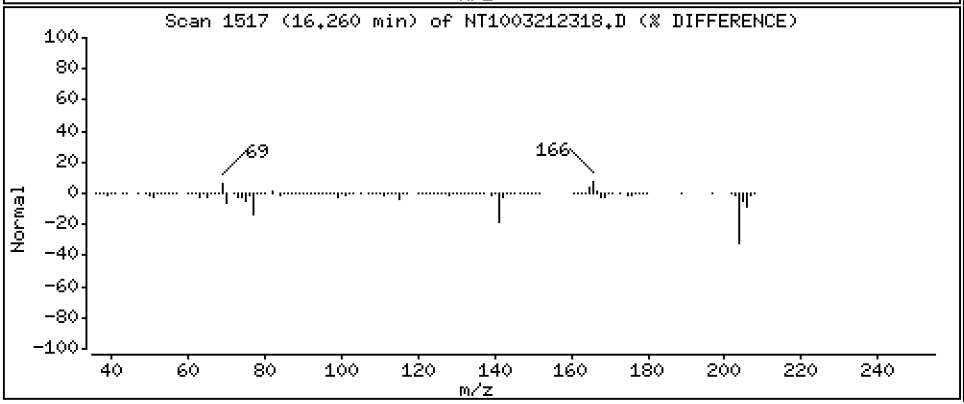
51 4-Chlorophenyl-phenylether

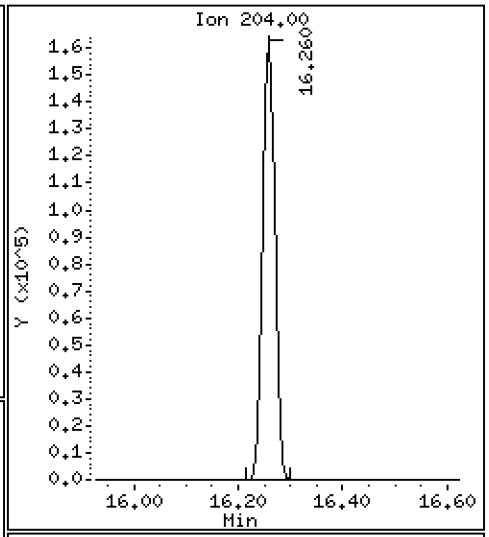
Concentration: 5.006 ug/mL

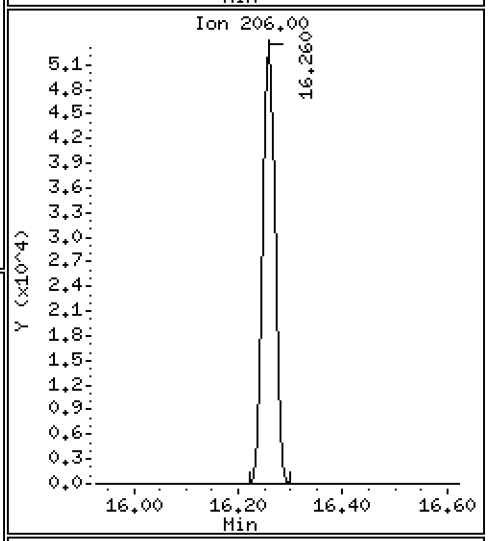


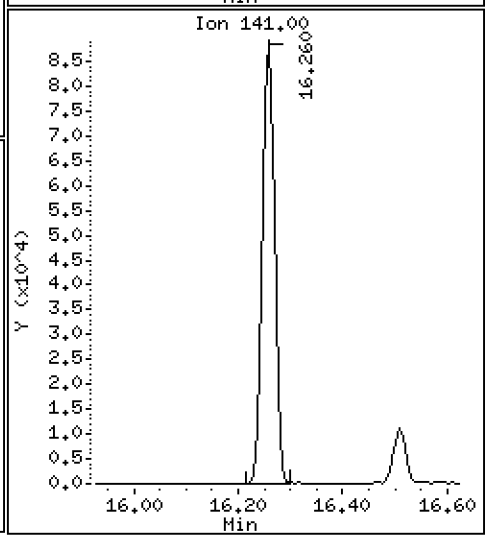












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Date : 22-MAR-2023 04:03

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-CCV1

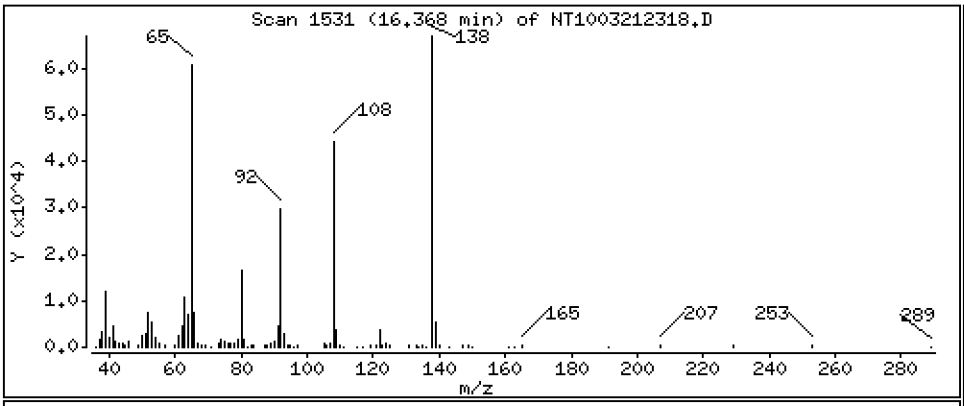
Operator: VTS

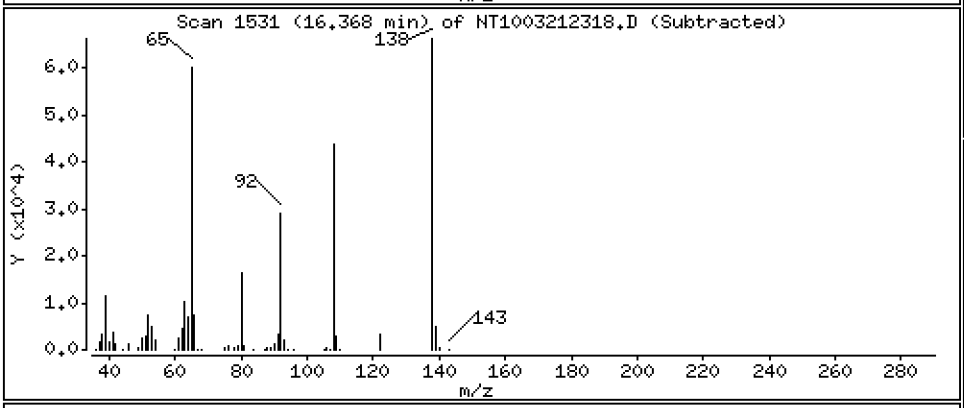
Column phase: ZB-5msi

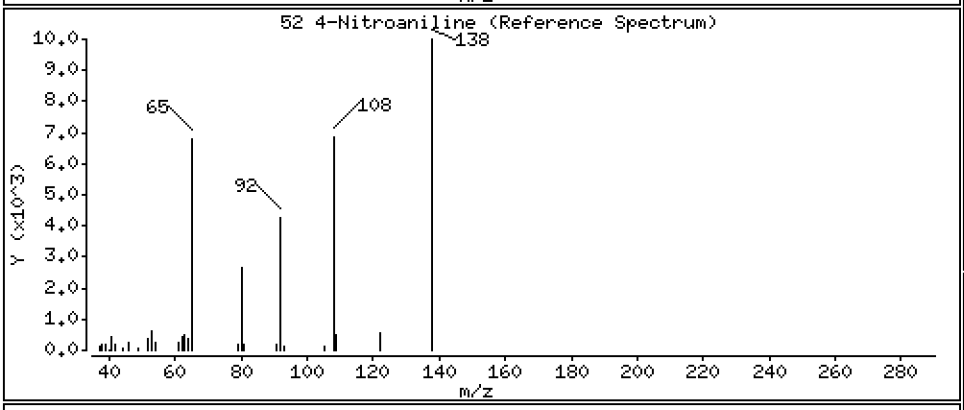
Column diameter: 0.25

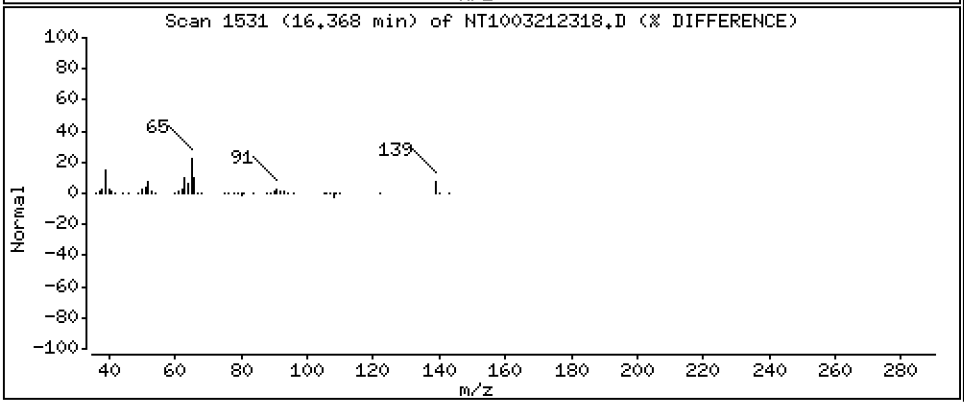
52 4-Nitroaniline

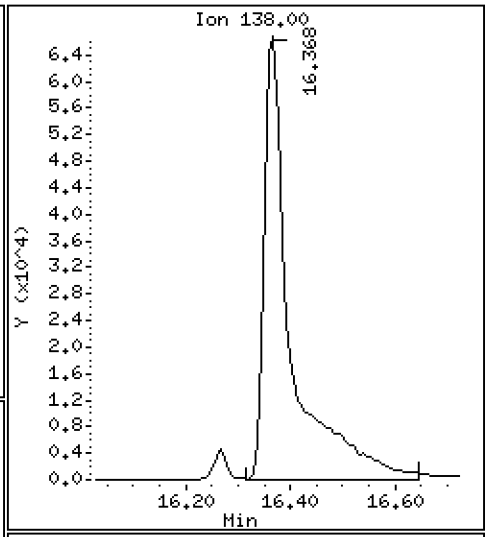
Concentration: 11.03 ug/mL

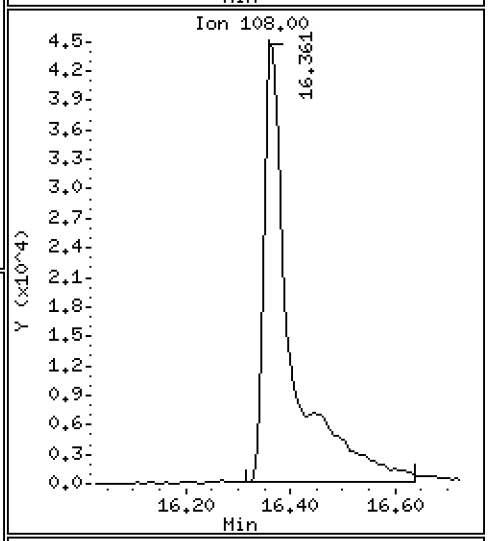


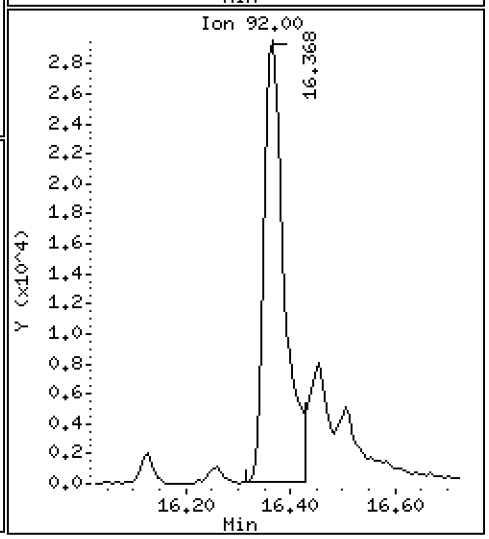












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Date : 22-MAR-2023 04:03

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-CCV1

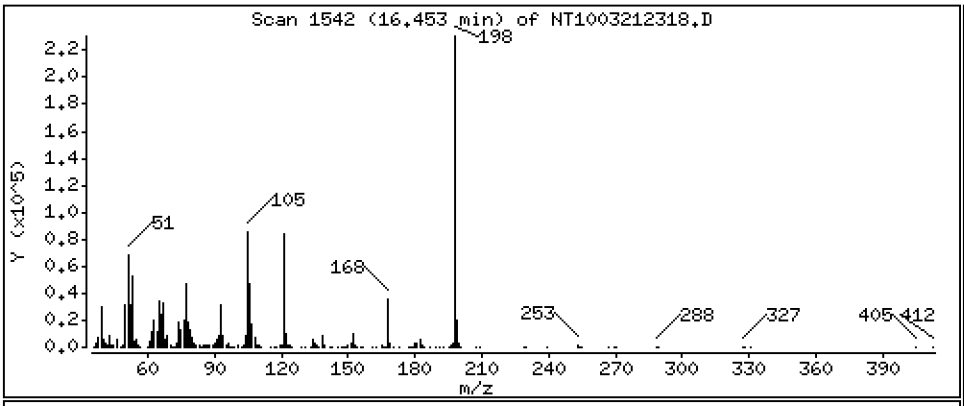
Operator: VTS

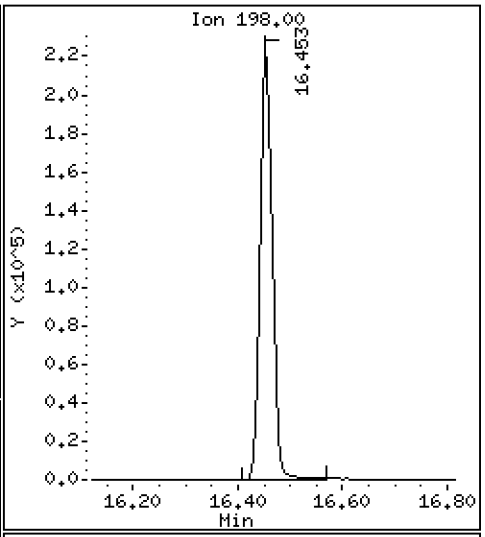
Column phase: ZB-5msi

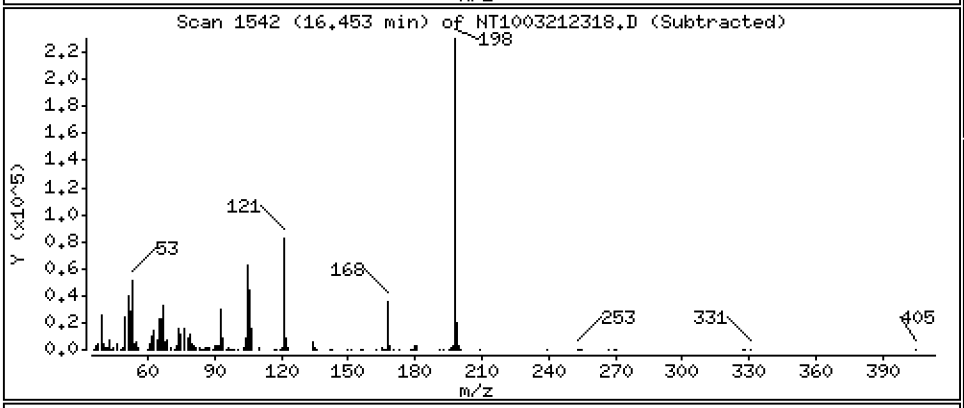
Column diameter: 0.25

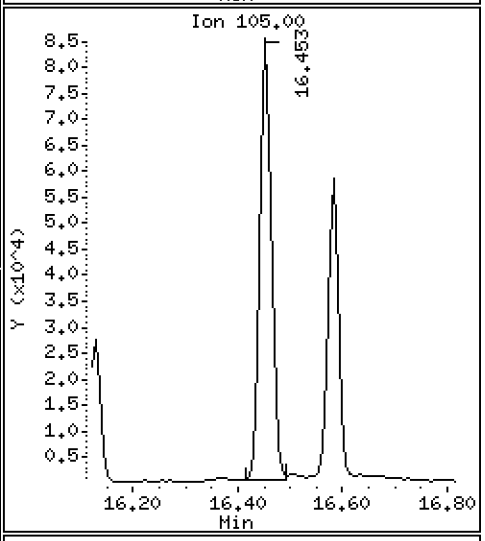
53 4,6-Dinitro-2-methylphenol

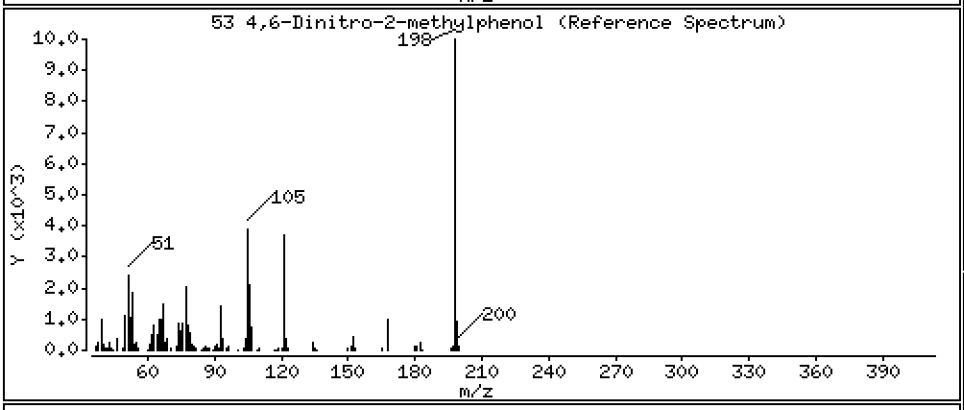
Concentration: 20.49 ug/mL

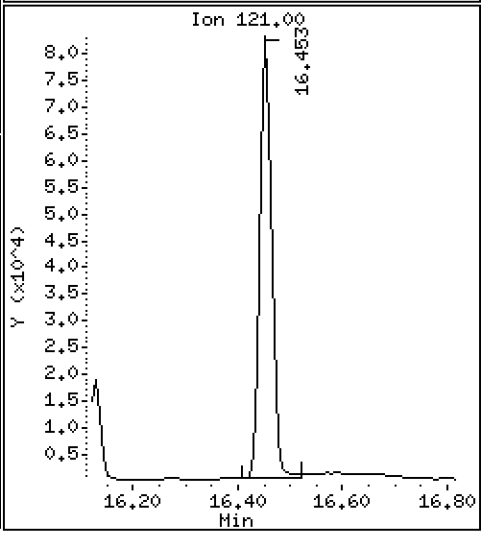


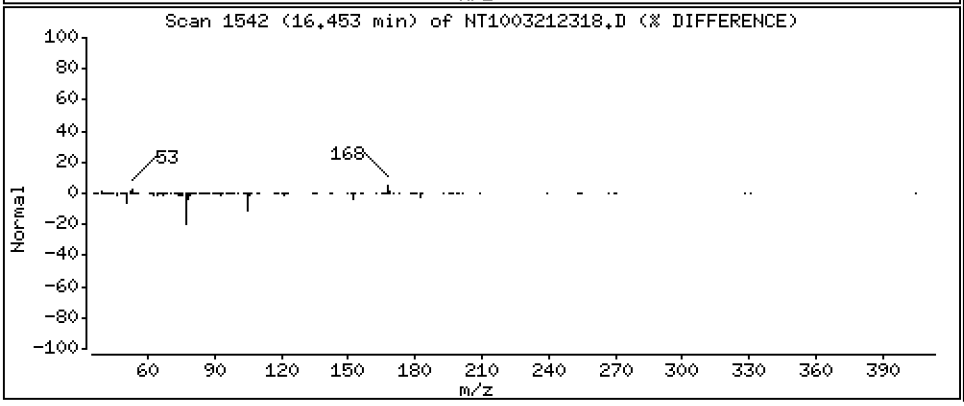












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Date : 22-MAR-2023 04:03

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-CCV1

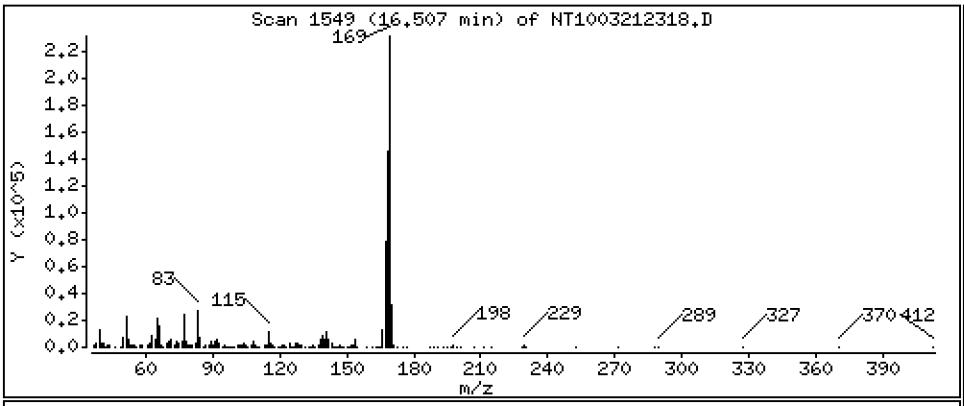
Operator: VTS

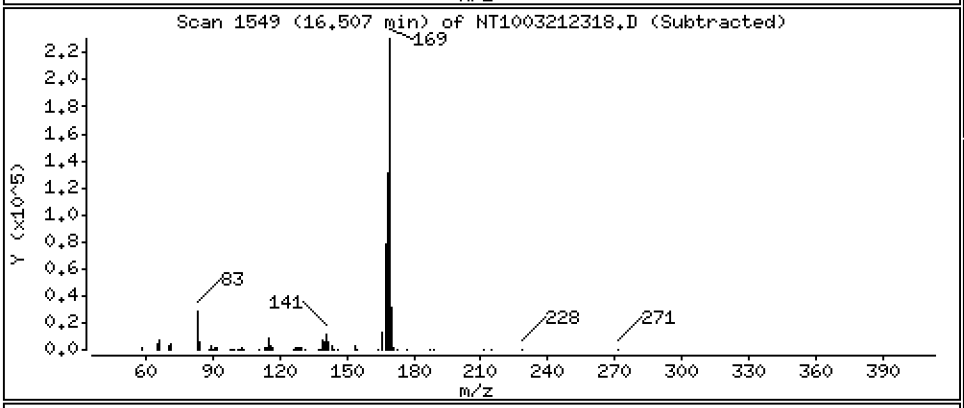
Column phase: ZB-5msi

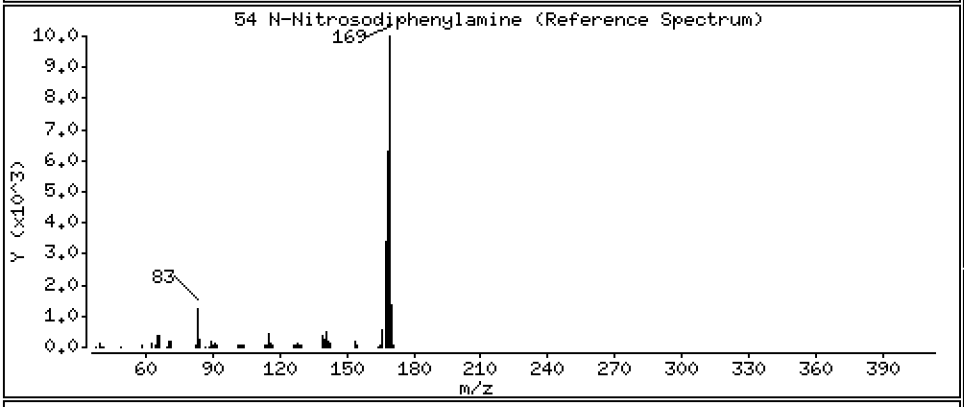
Column diameter: 0.25

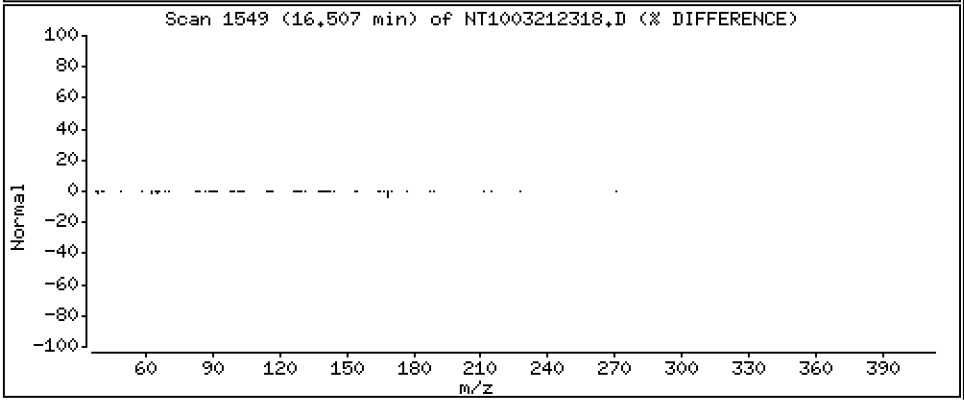
54 N-Nitrosodiphenylamine

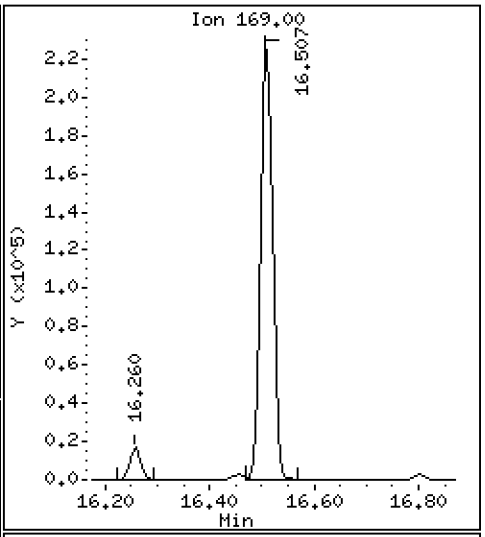
Concentration: 4.750 ug/mL

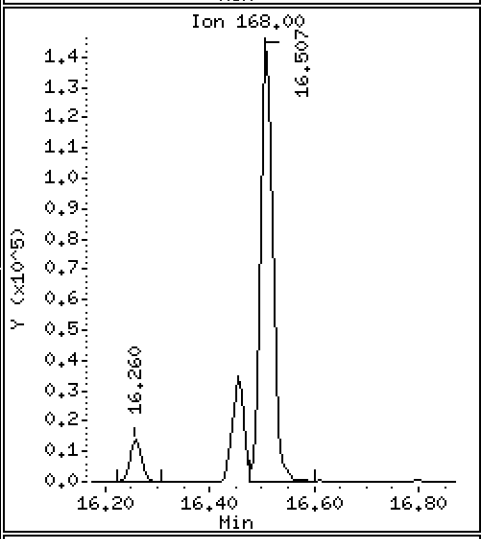


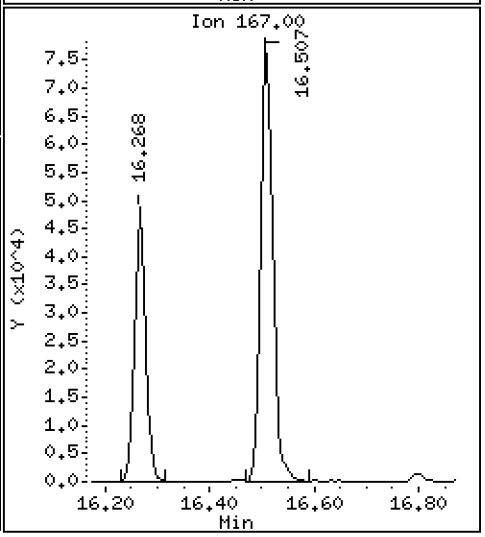












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212318.D

Date : 22-MAR-2023 04:03

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-CCV1

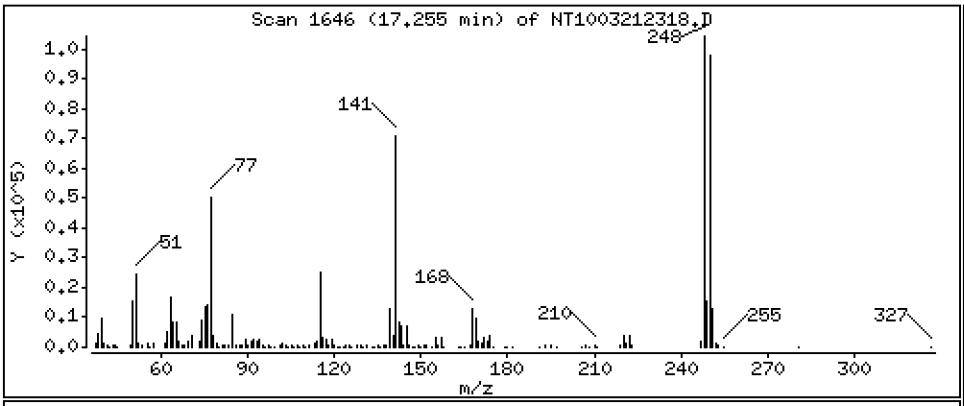
Operator: VTS

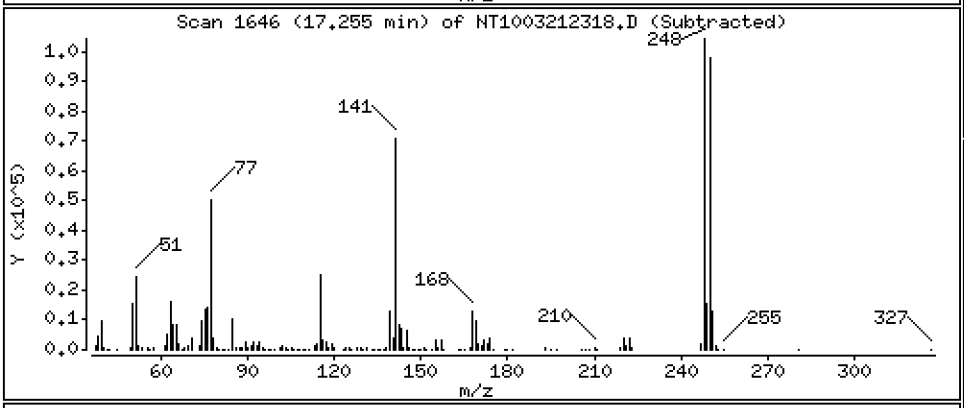
Column phase: ZB-5msi

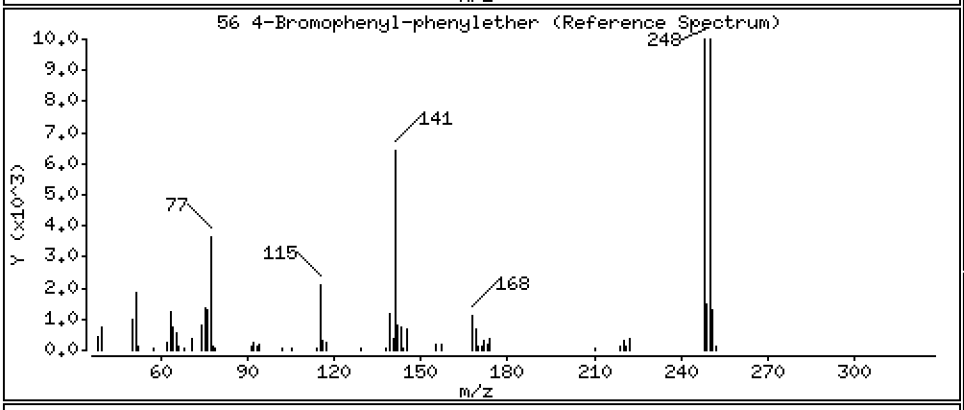
Column diameter: 0.25

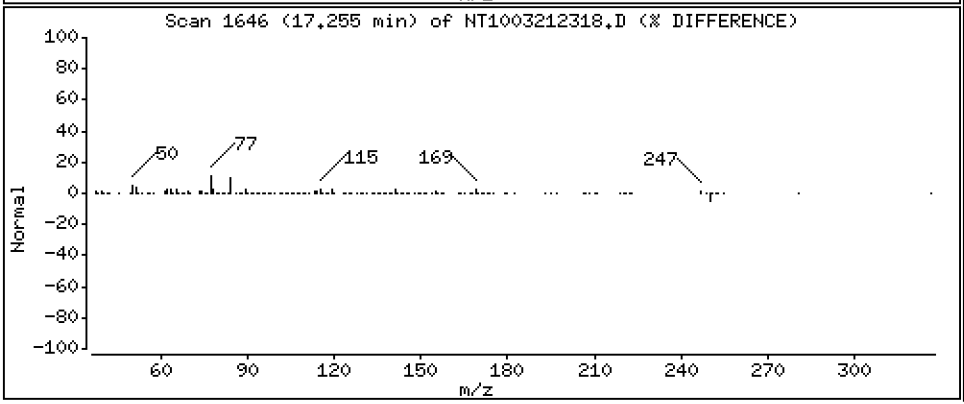
56 4-Bromophenyl-phenylether

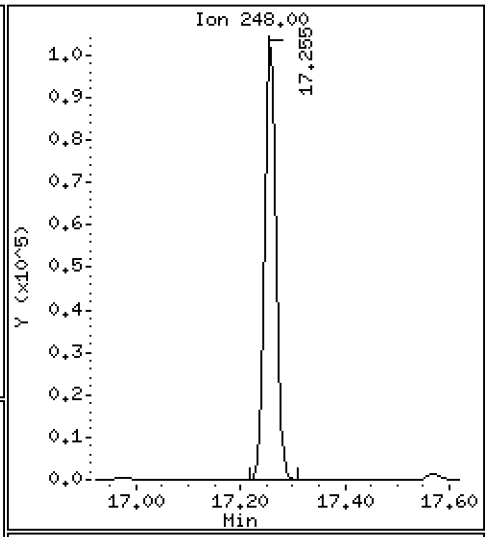
Concentration: 5.288 ug/mL

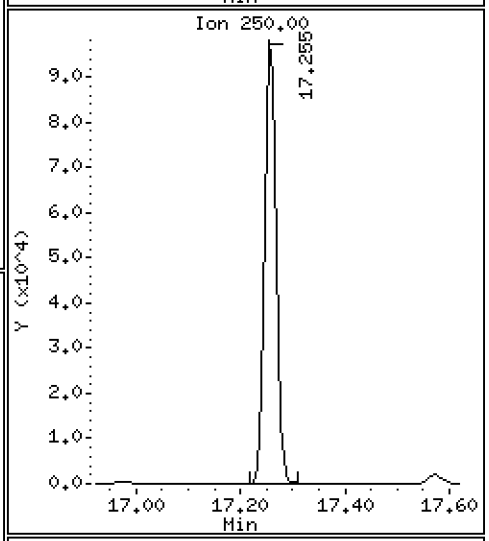


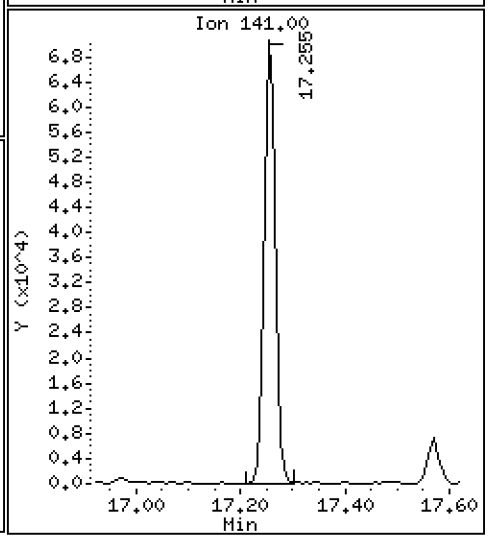












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Date : 22-MAR-2023 04:03

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-CCV1

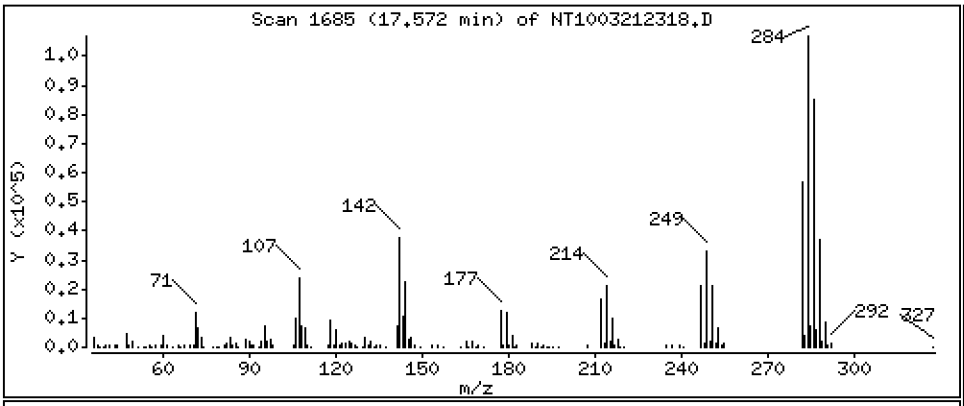
Operator: VTS

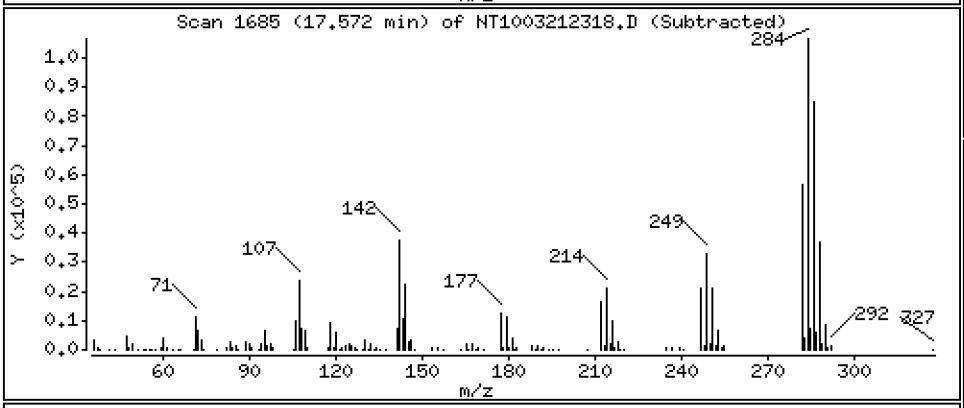
Column phase: ZB-5msi

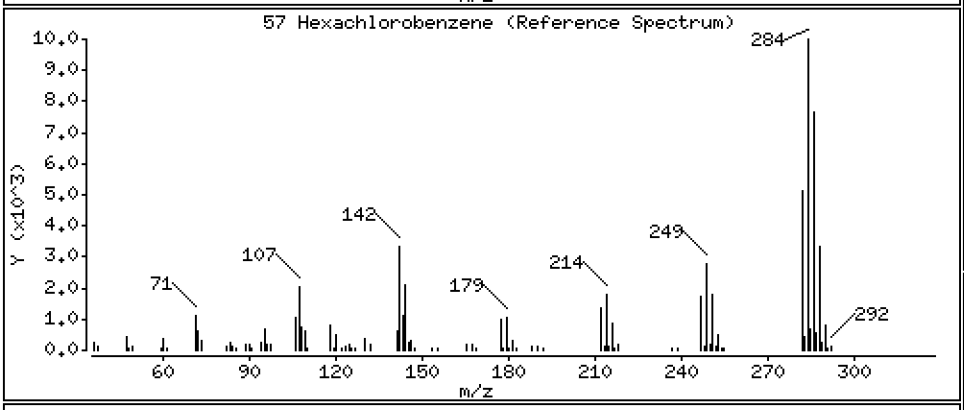
Column diameter: 0.25

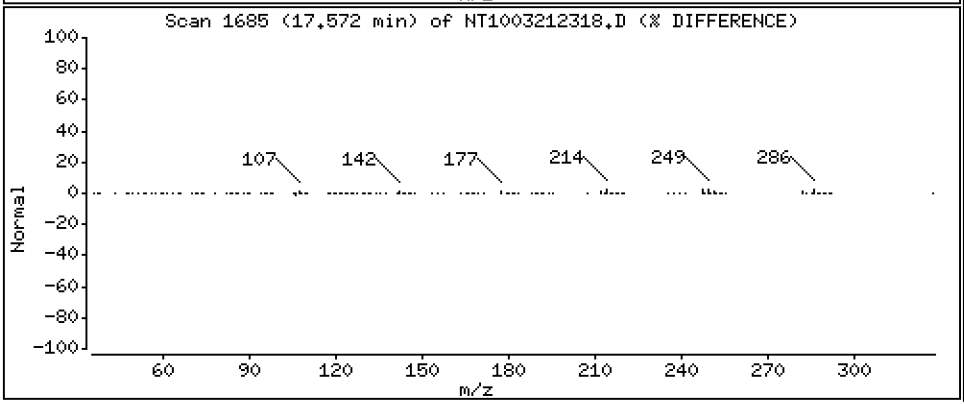
57 Hexachlorobenzene

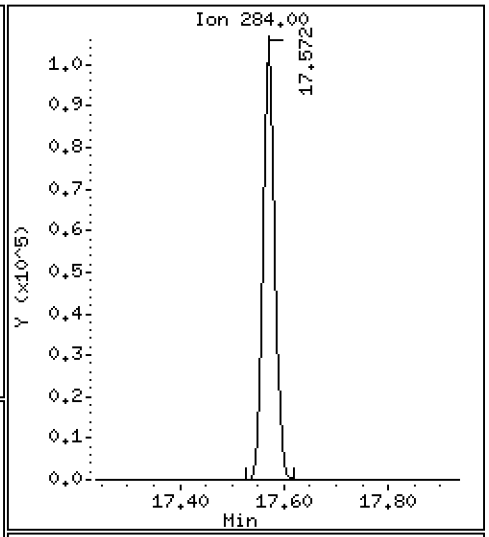
Concentration: 5.146 ug/mL

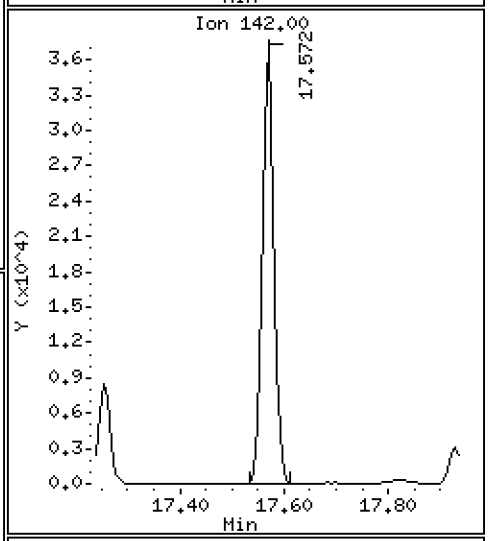


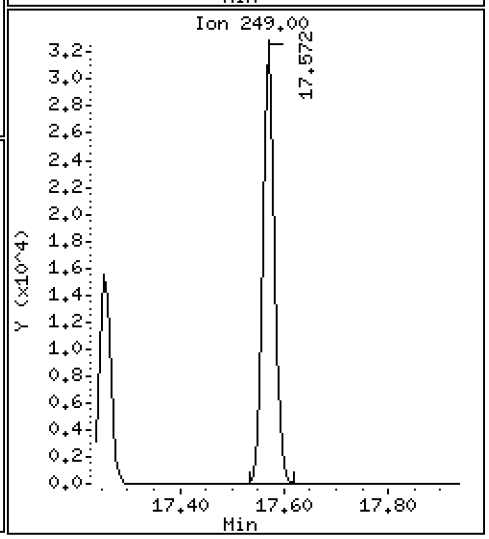












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Date : 22-MAR-2023 04:03

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-CCV1

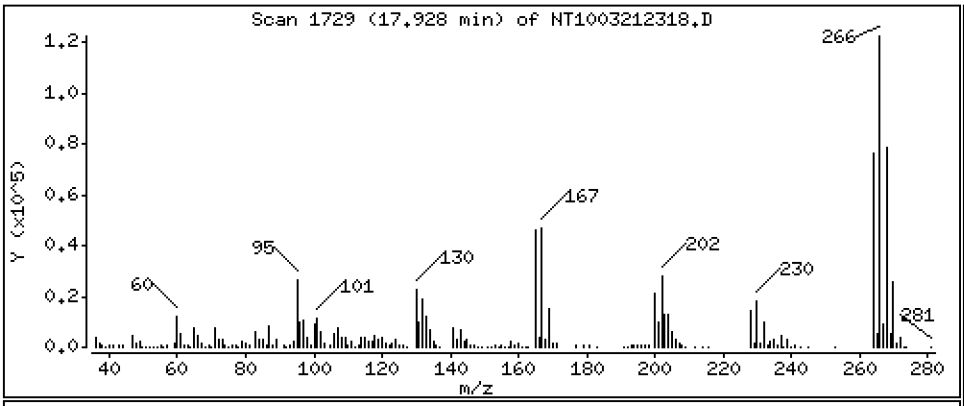
Operator: VTS

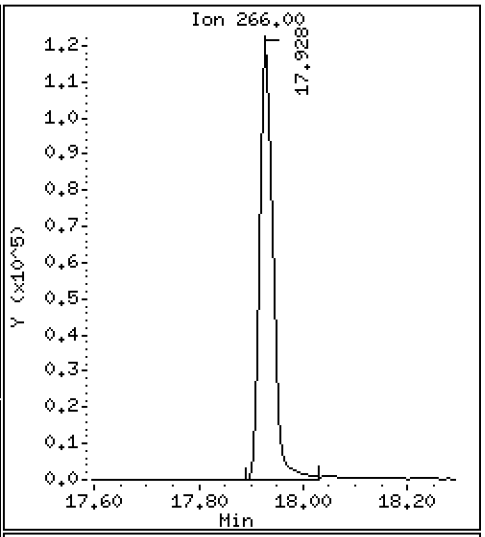
Column phase: ZB-5msi

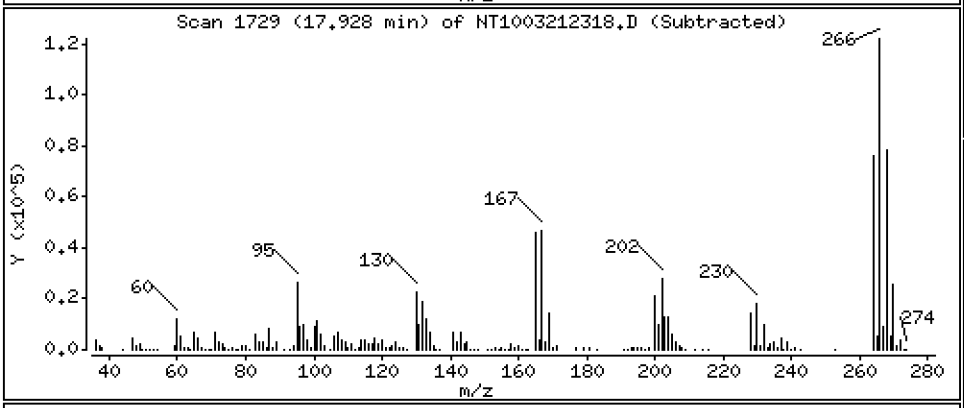
Column diameter: 0.25

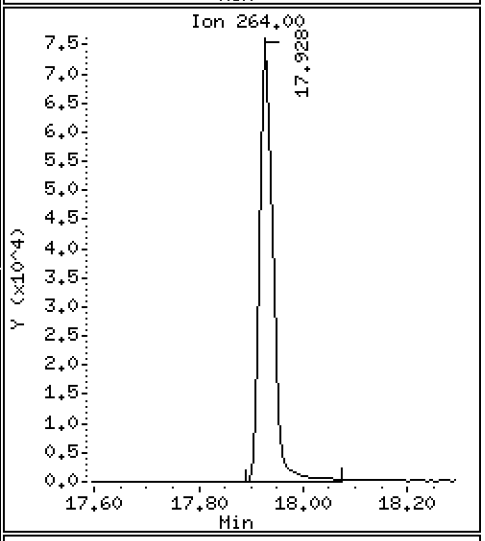
58 Pentachlorophenol

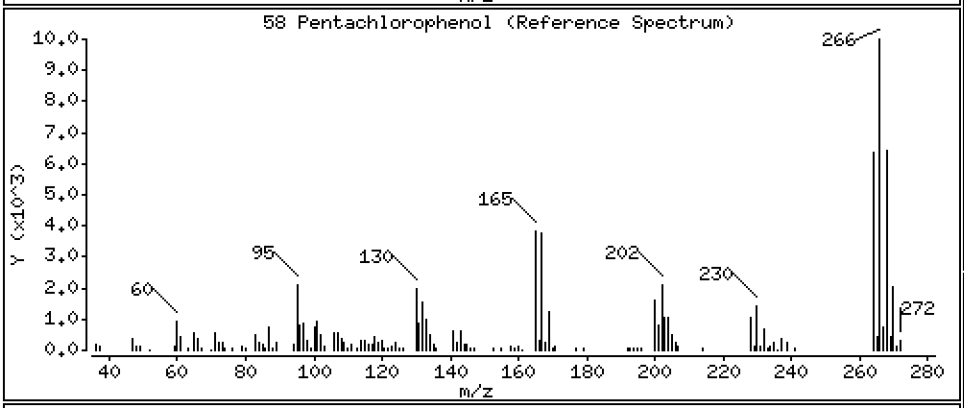
Concentration: 10.65 ug/mL

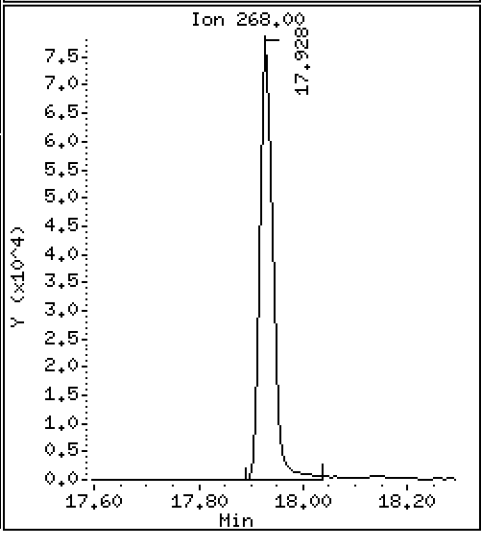


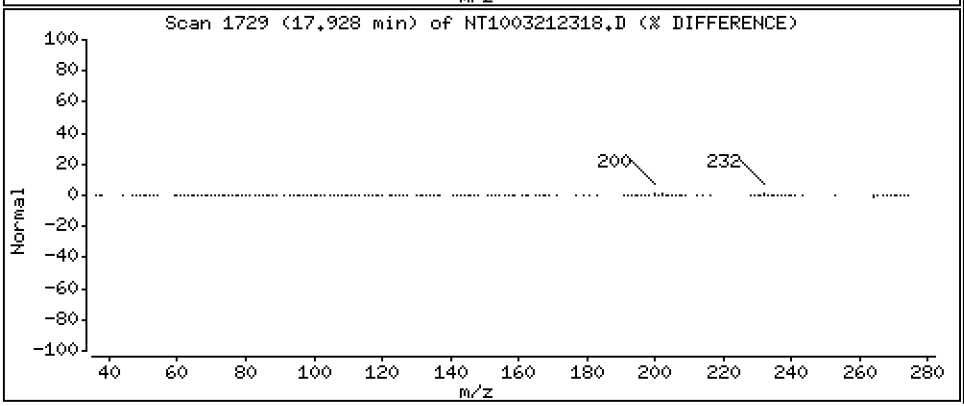












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Date : 22-MAR-2023 04:03

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-CCV1

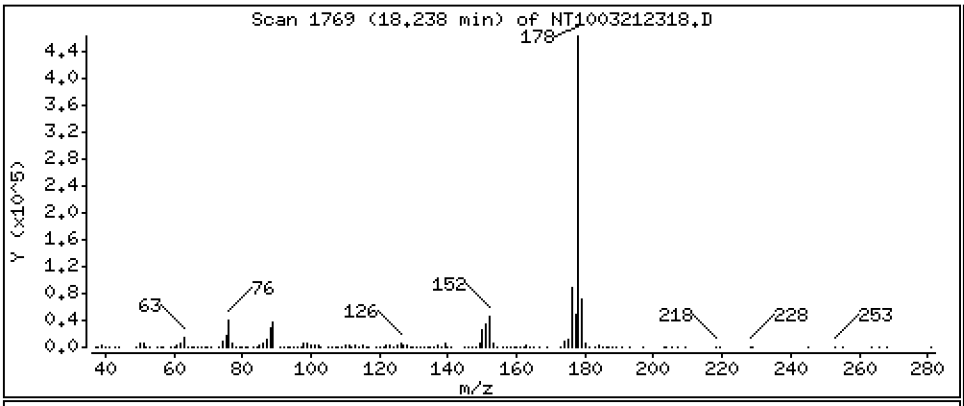
Operator: VTS

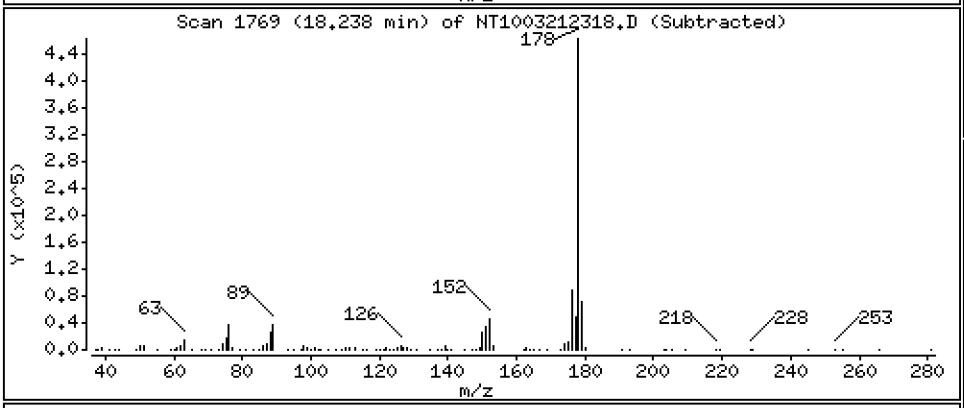
Column phase: ZB-5msi

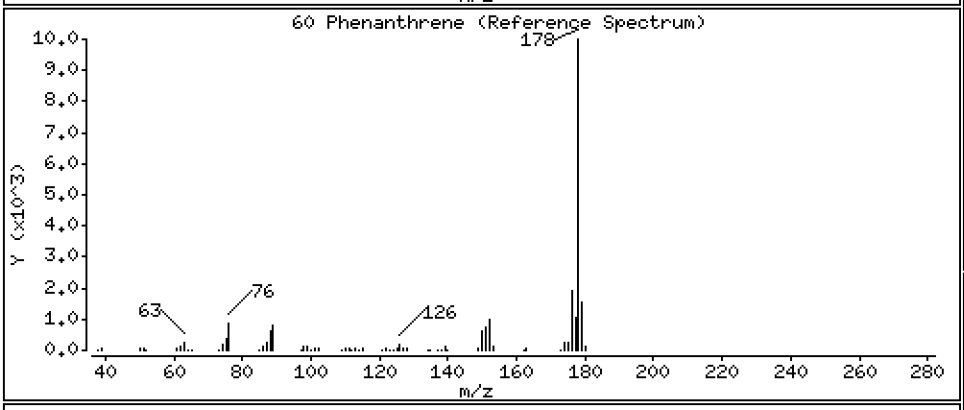
Column diameter: 0.25

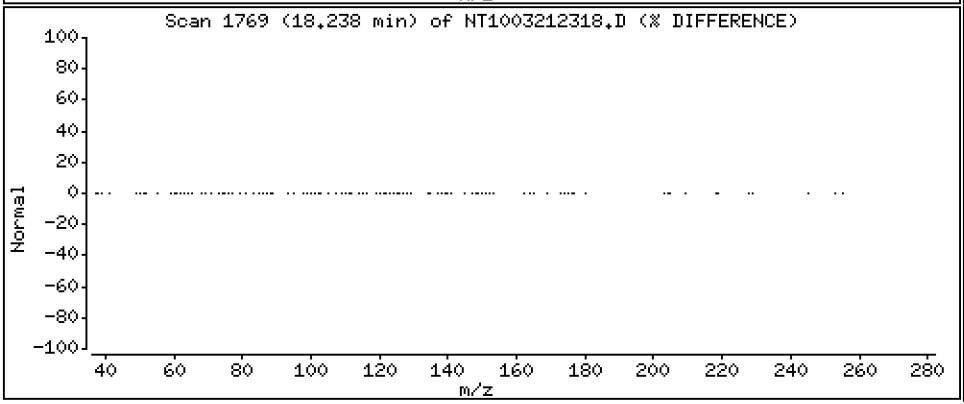
60 Phenanthrene

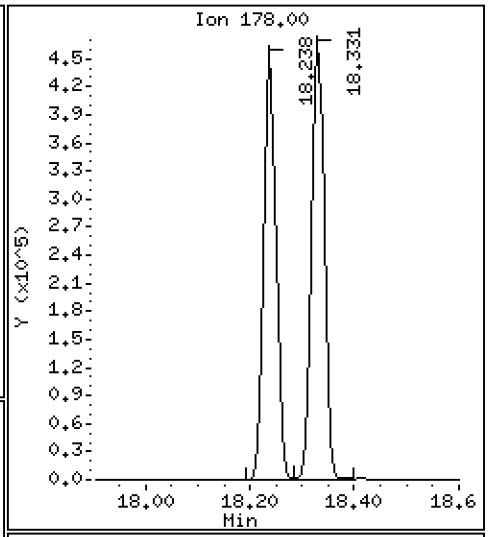
Concentration: 4.827 ug/mL

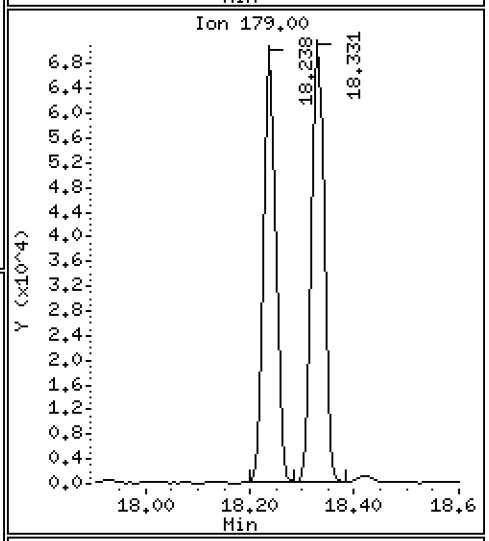


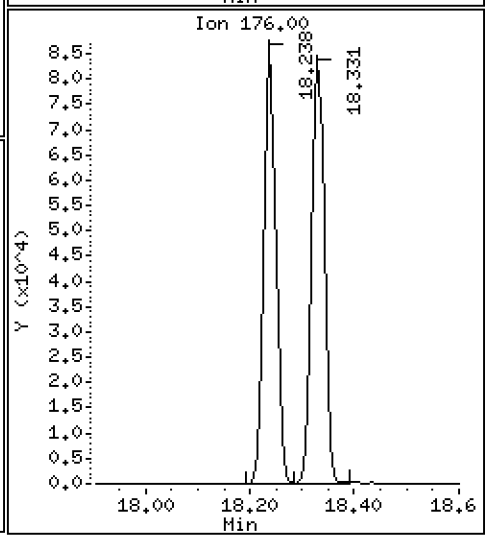












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Date : 22-MAR-2023 04:03

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-CCV1

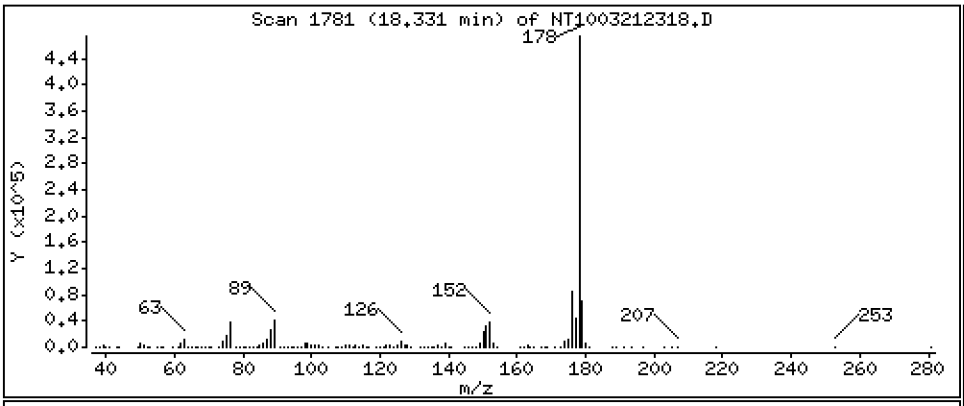
Operator: VTS

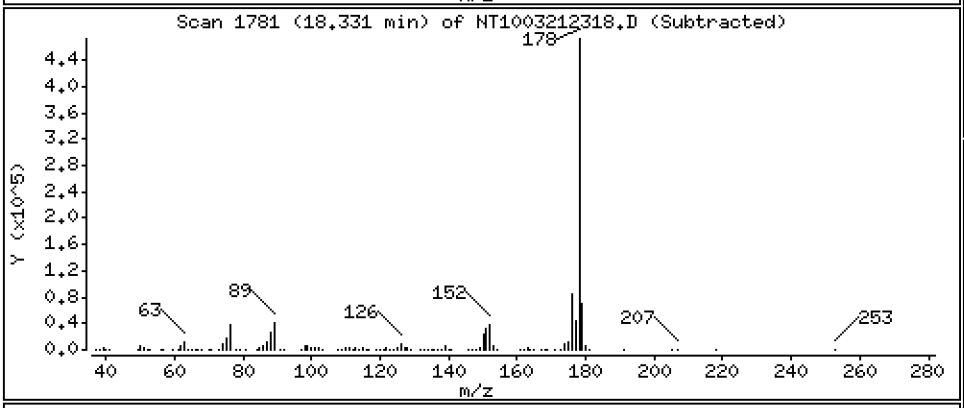
Column phase: ZB-5msi

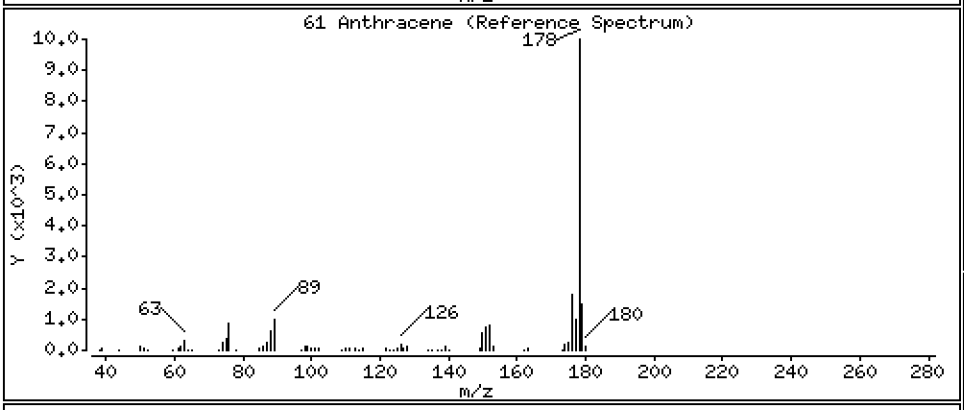
Column diameter: 0.25

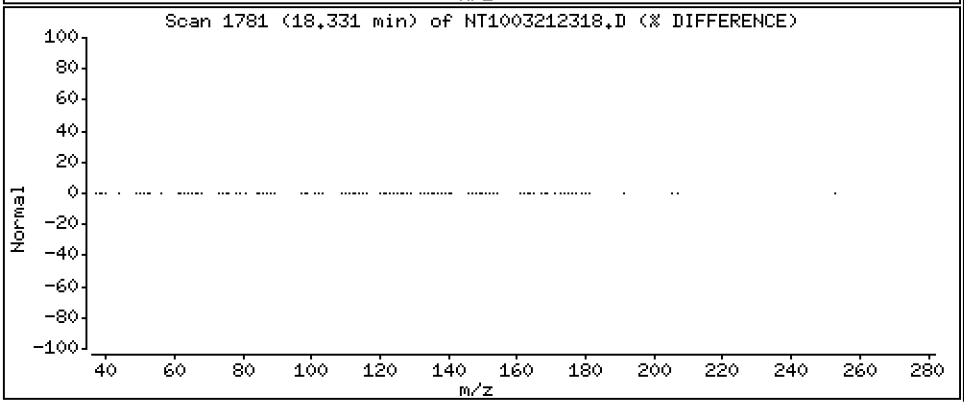
61 Anthracene

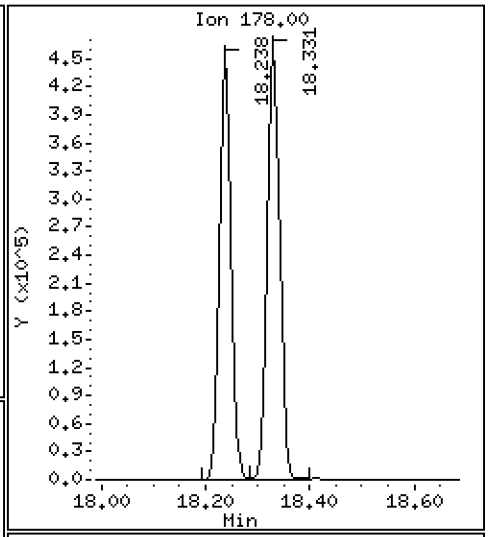
Concentration: 5.198 ug/mL

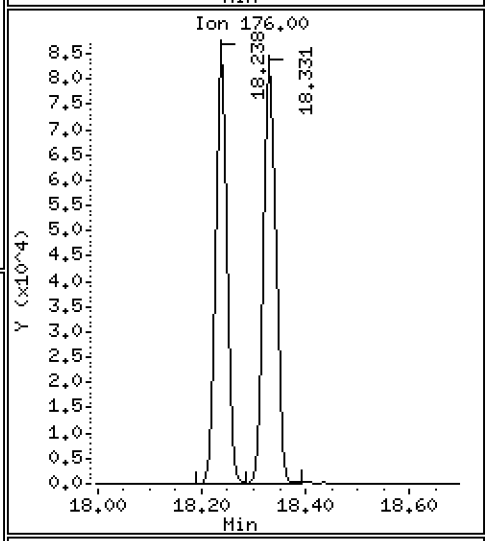


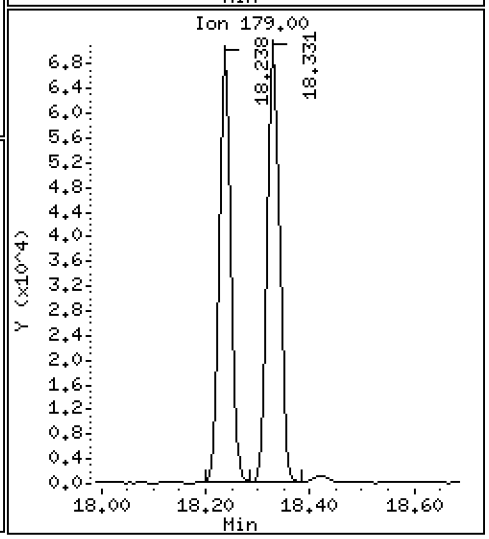












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Date : 22-MAR-2023 04:03

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-CCV1

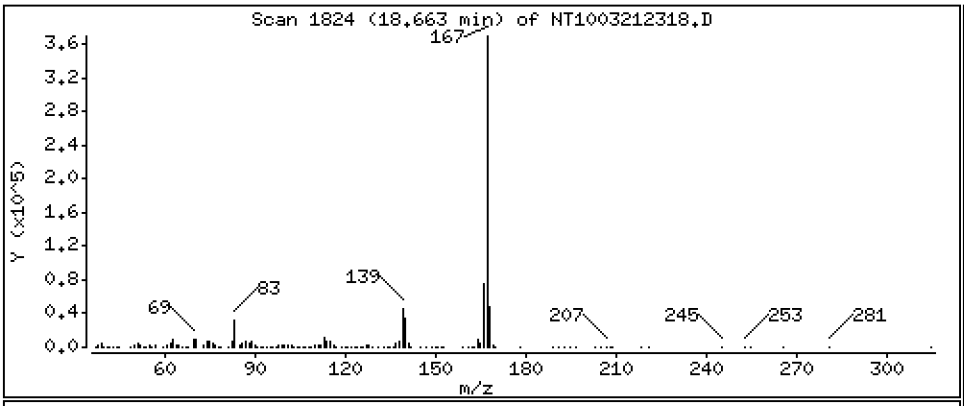
Operator: VTS

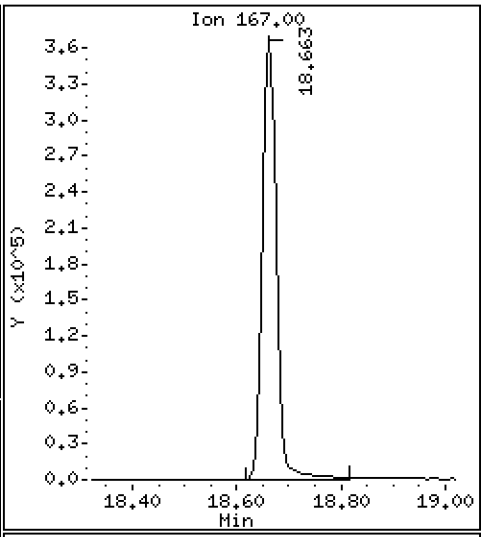
Column phase: ZB-5msi

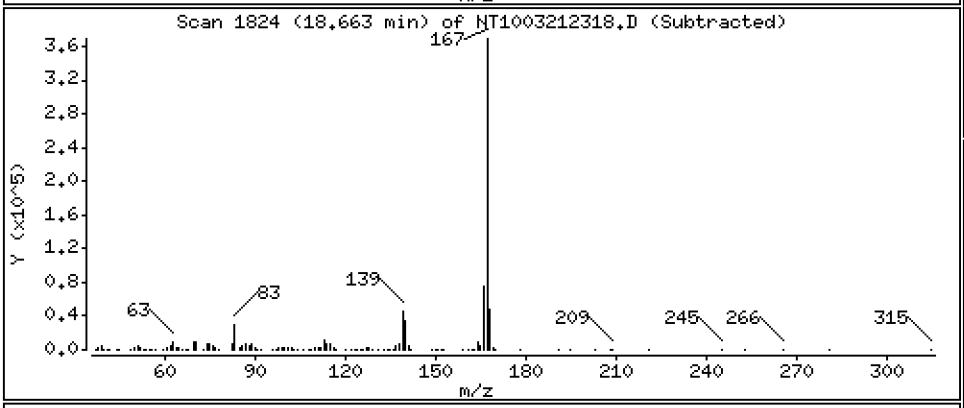
Column diameter: 0.25

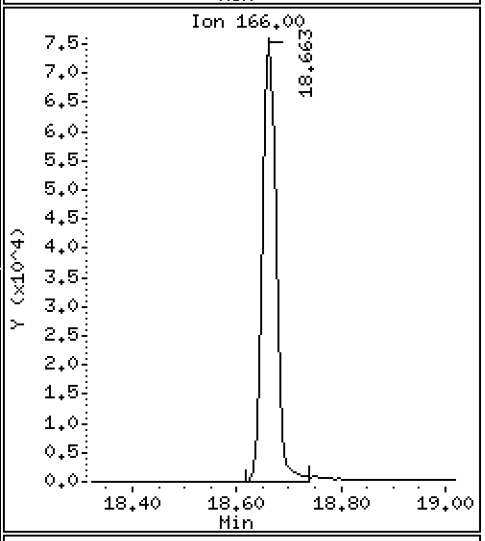
62 Carbazole

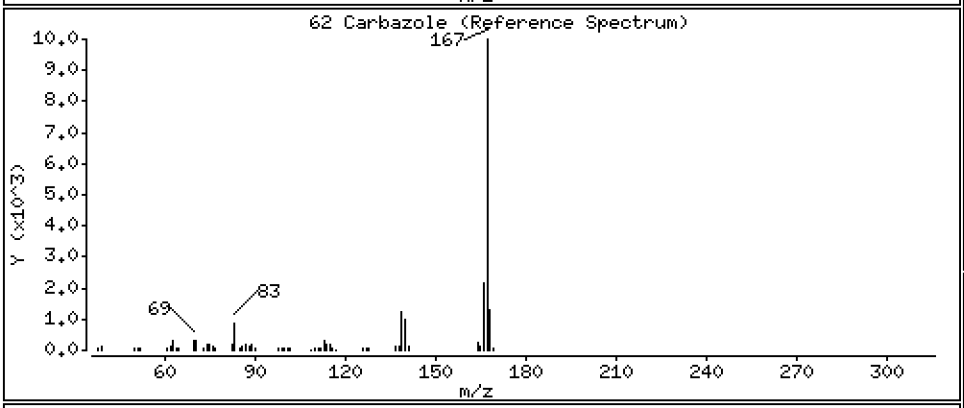
Concentration: 5.068 ug/mL

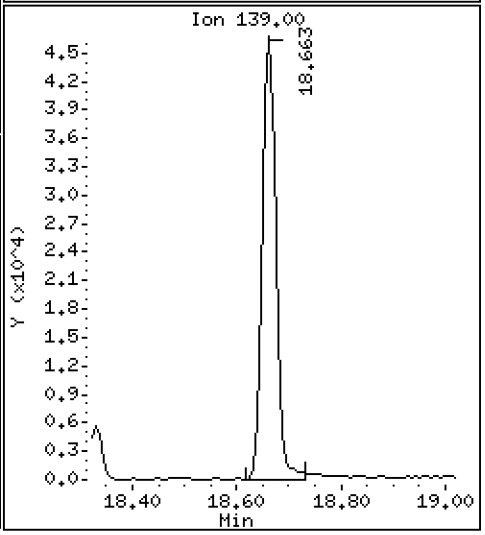


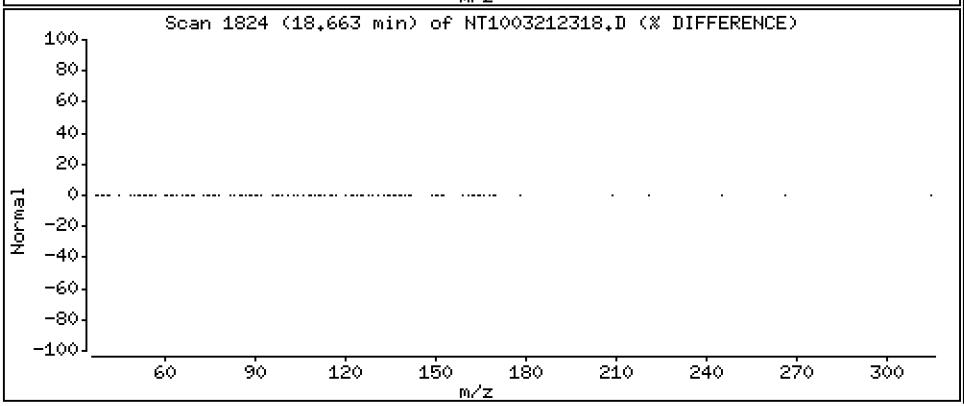












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Date : 22-MAR-2023 04:03

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-CCV1

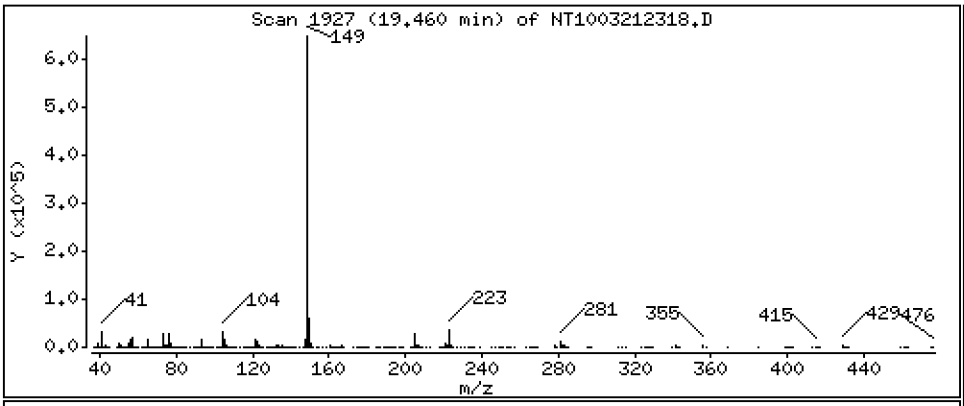
Operator: VTS

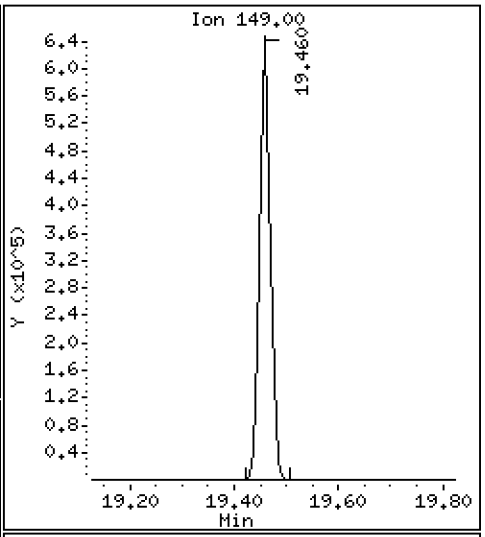
Column phase: ZB-5msi

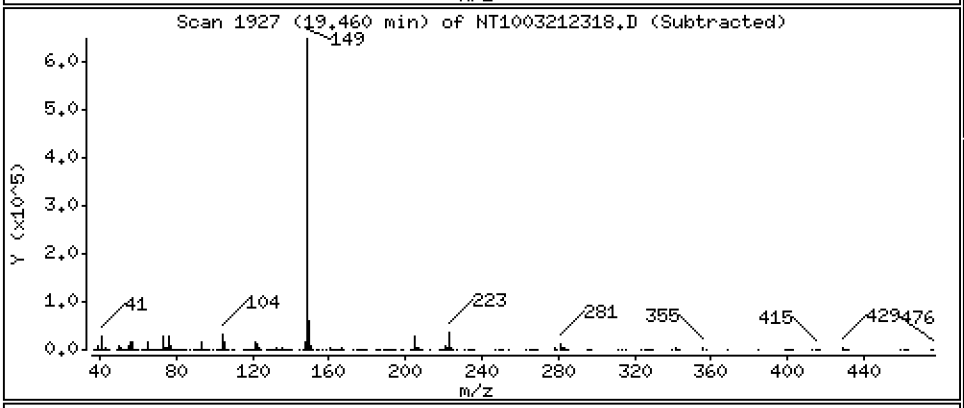
Column diameter: 0.25

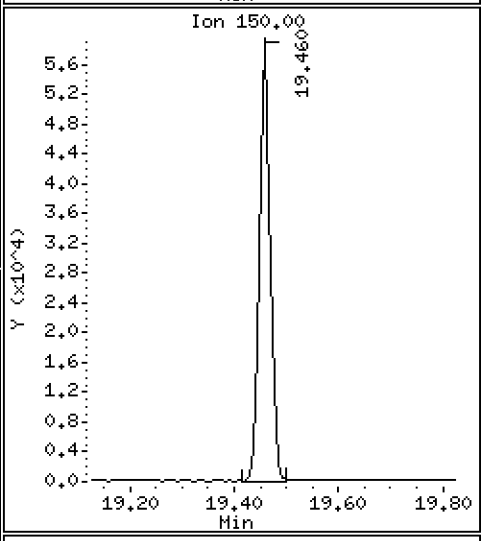
63 Di-n-butylphthalate

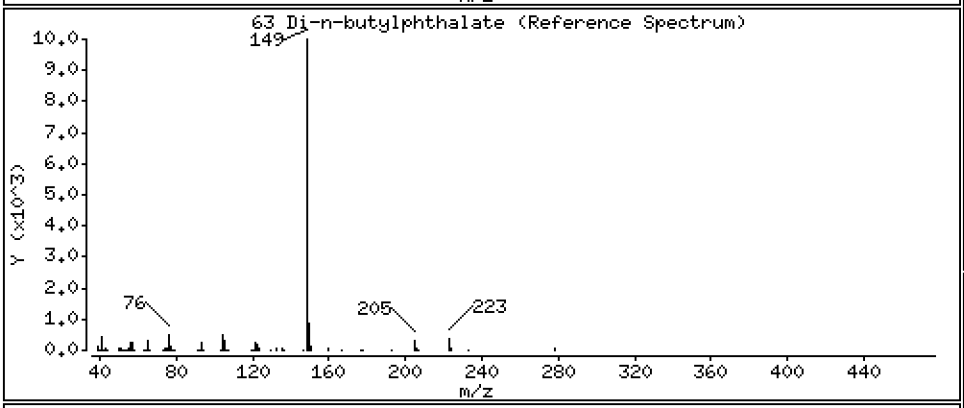
Concentration: 5.182 ug/mL

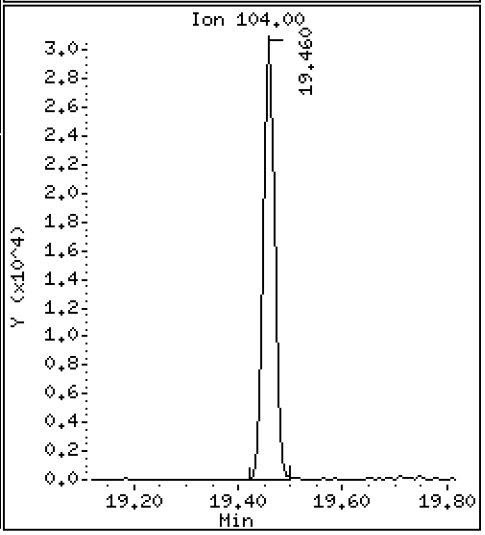


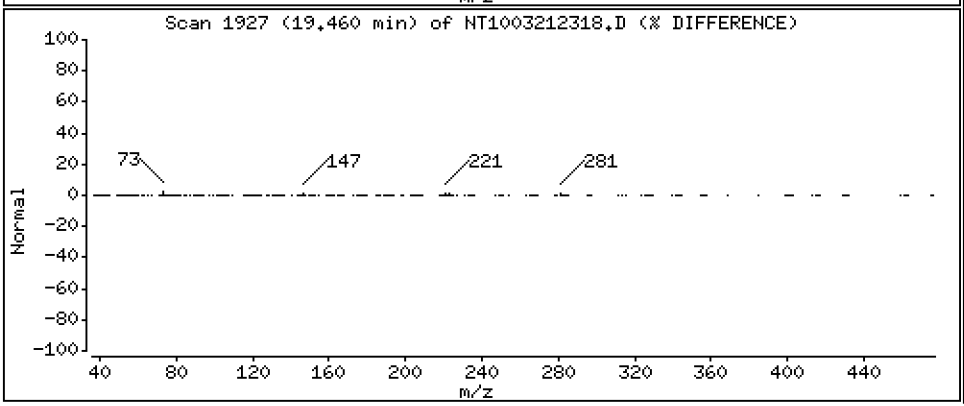












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212318.D

Date : 22-MAR-2023 04:03

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-CCV1

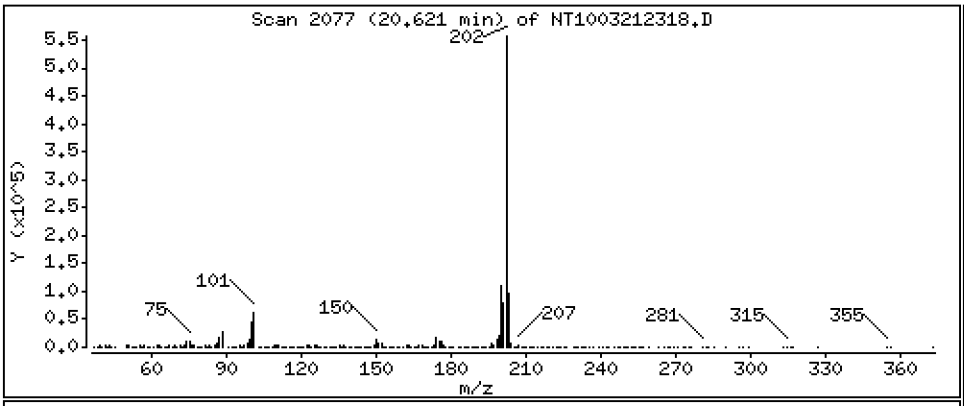
Operator: VTS

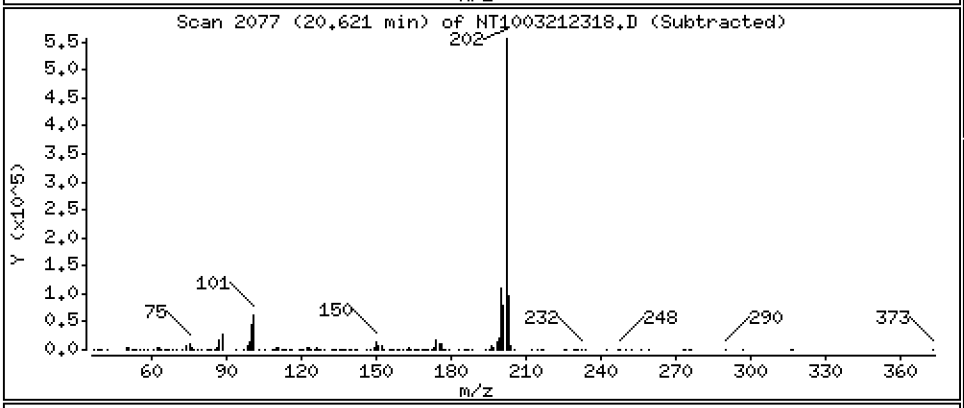
Column phase: ZB-5msi

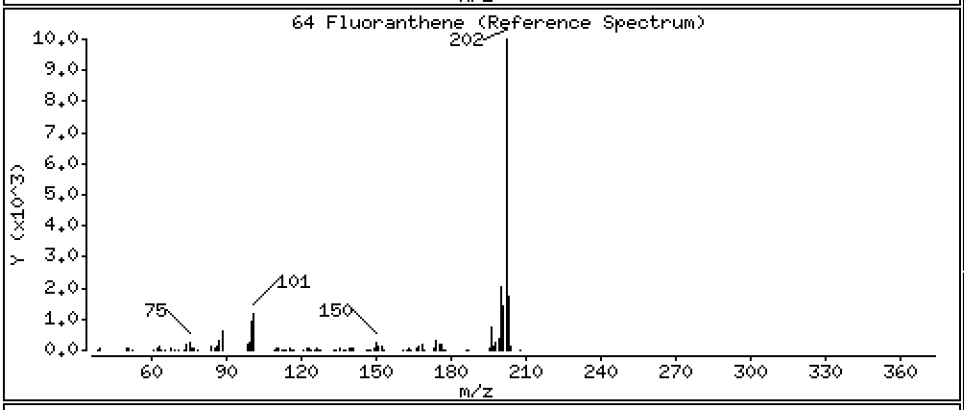
Column diameter: 0.25

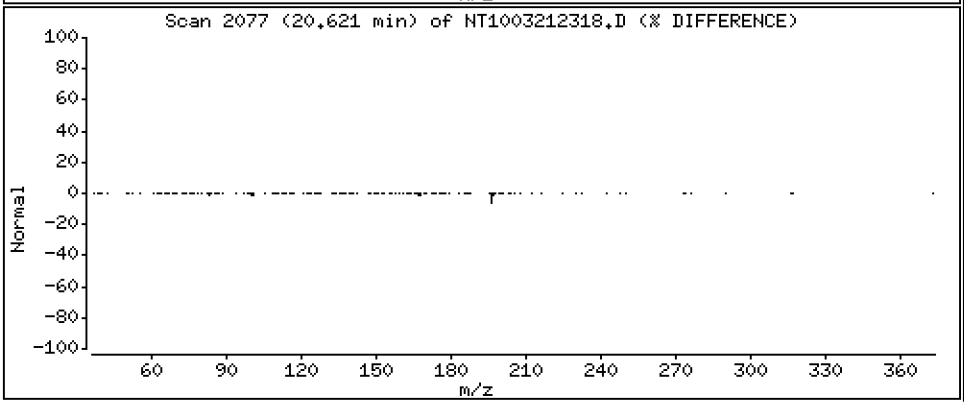
64 Fluoranthene

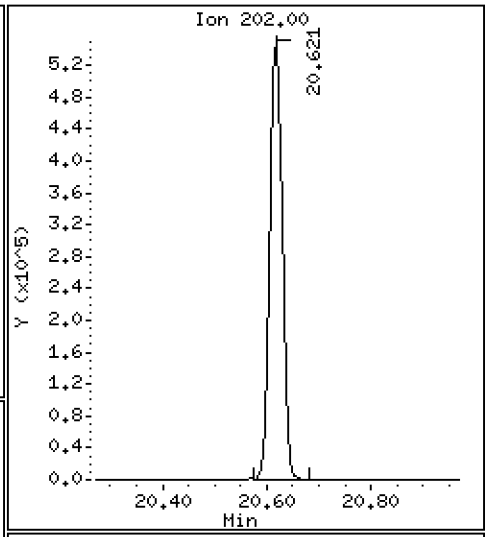
Concentration: 4.256 ug/mL

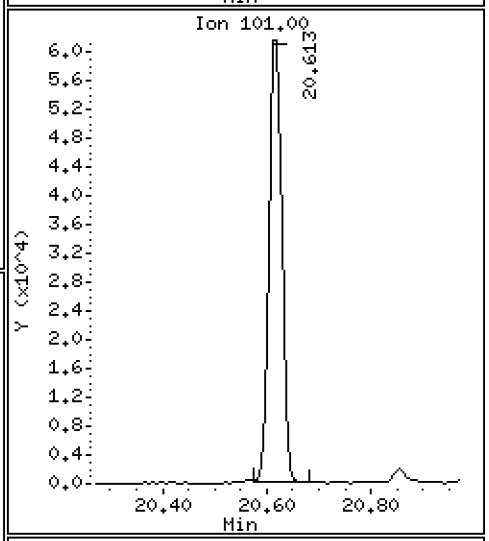


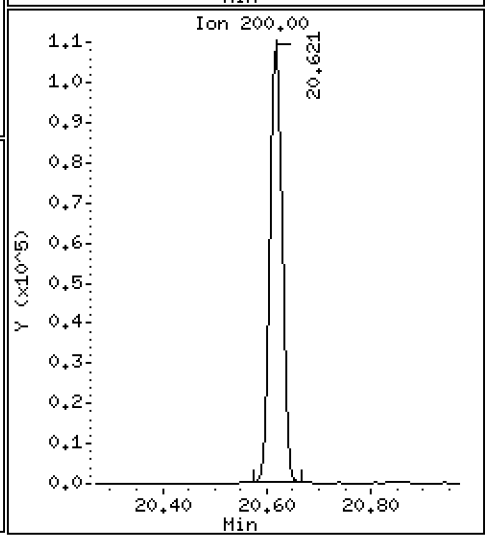












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Date : 22-MAR-2023 04:03

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-CCV1

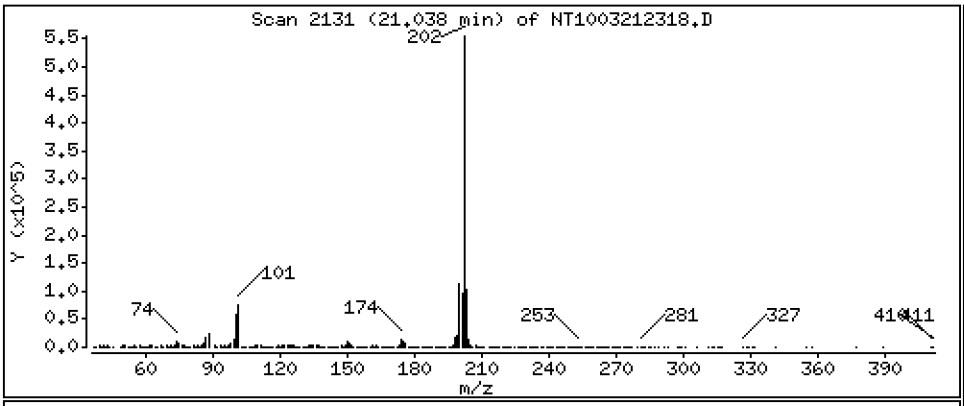
Operator: VTS

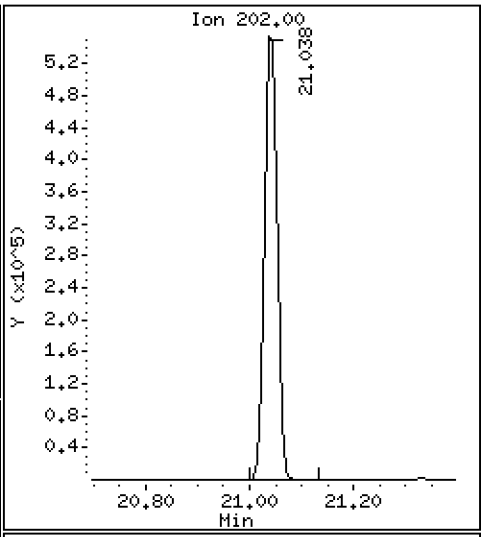
Column phase: ZB-5msi

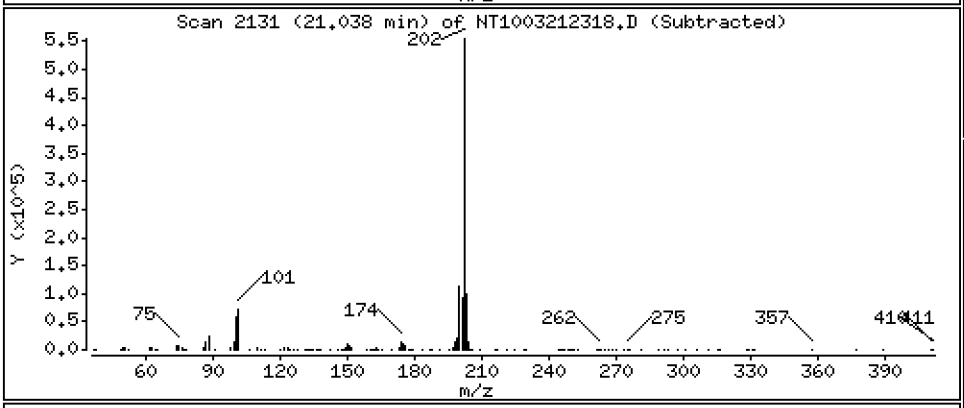
Column diameter: 0.25

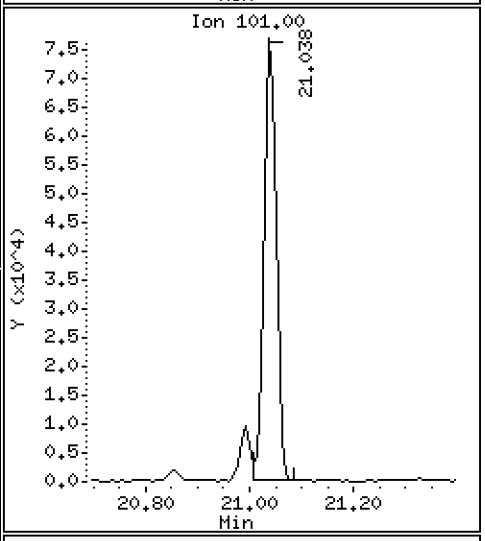
65 Pyrene

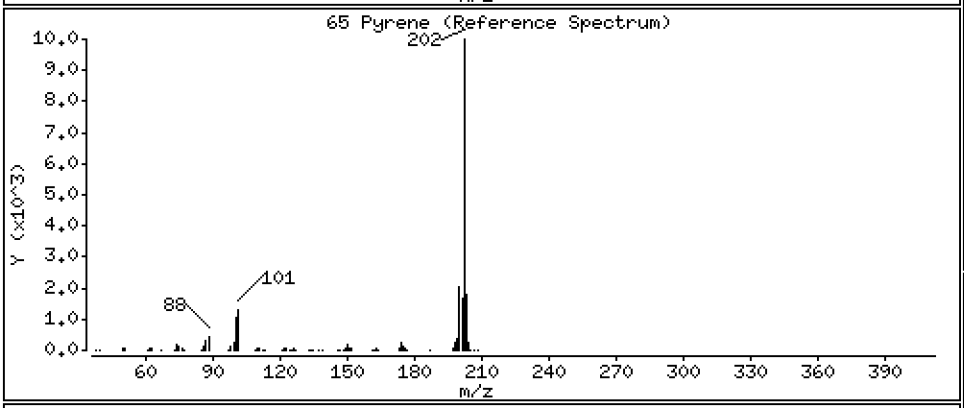
Concentration: 4.301 ug/mL

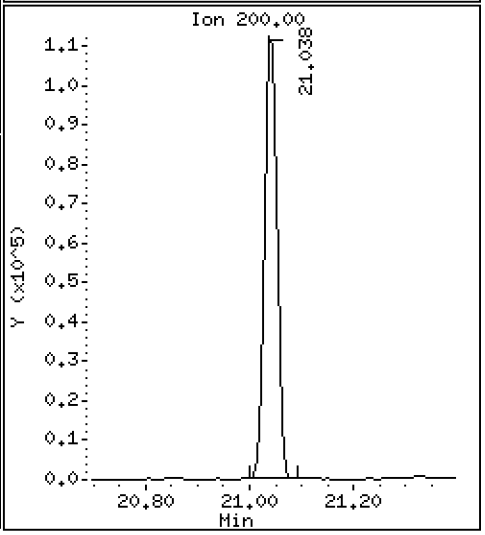


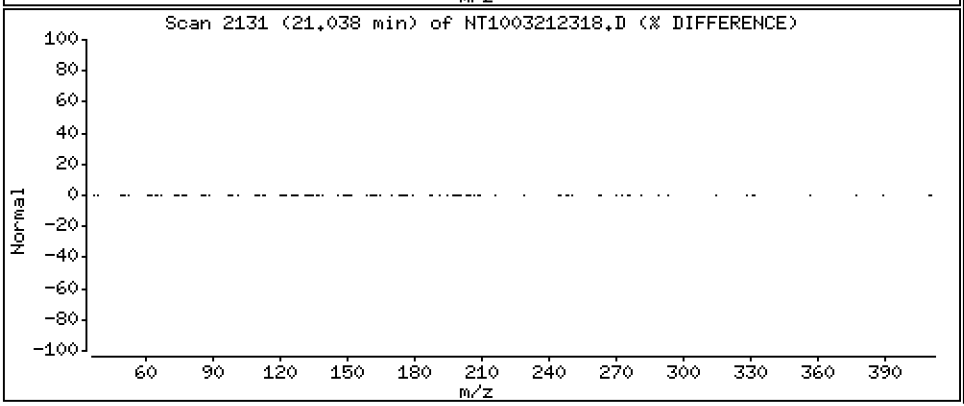












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Date : 22-MAR-2023 04:03

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-CCV1

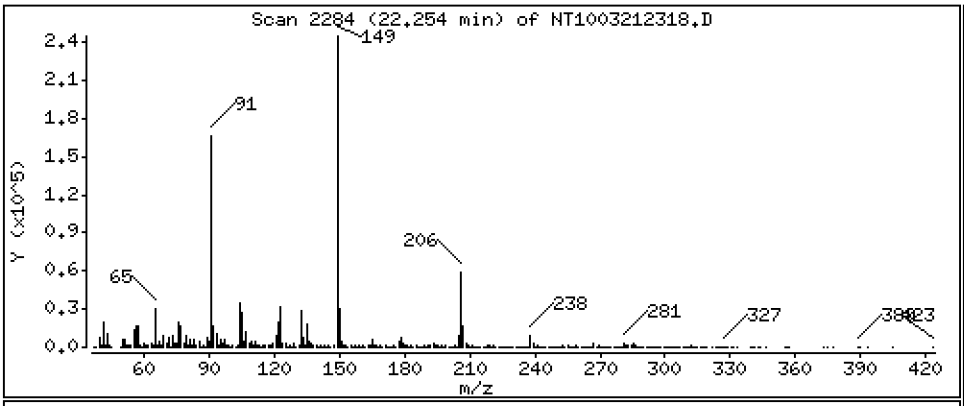
Operator: VTS

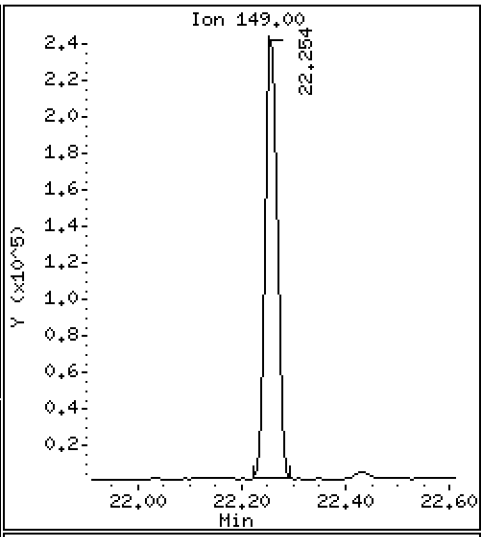
Column phase: ZB-5msi

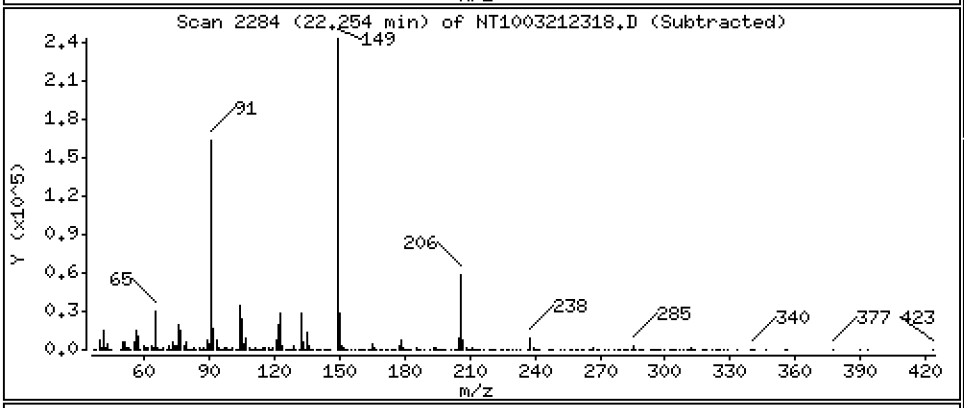
Column diameter: 0.25

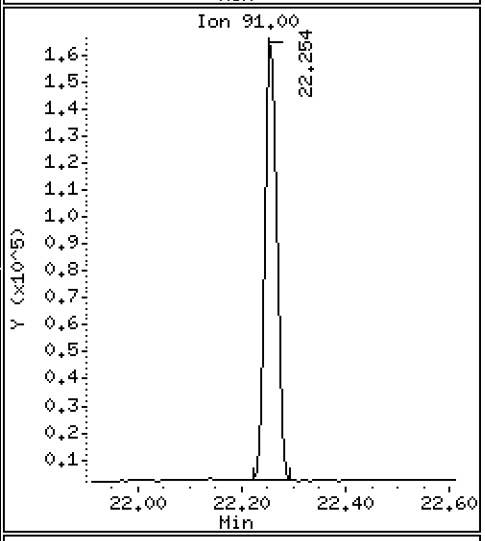
67 Butylbenzylphthalate

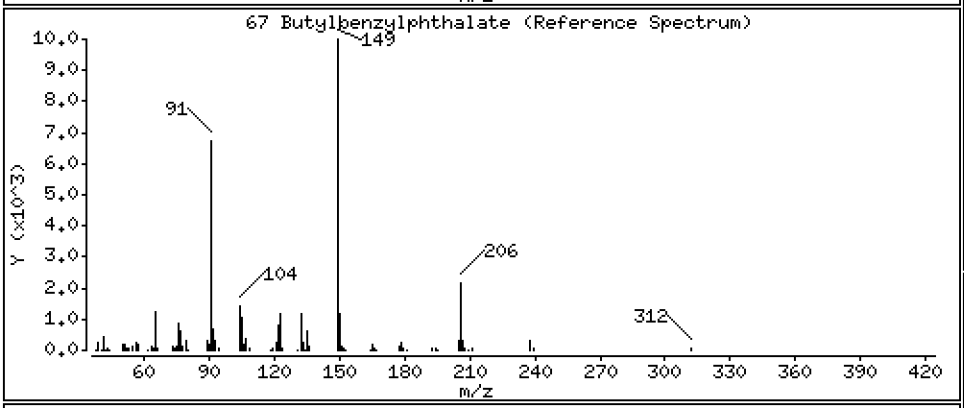
Concentration: 4.915 ug/mL

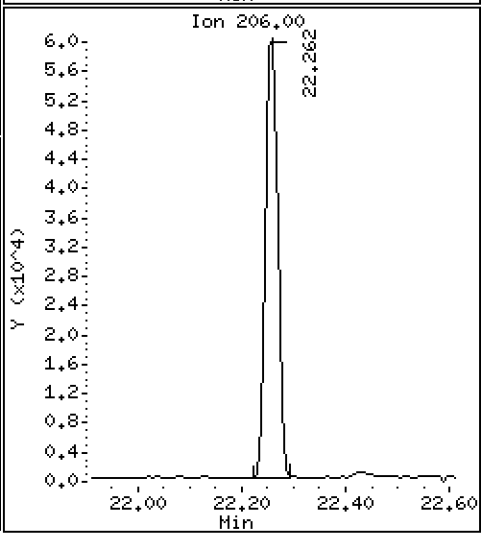


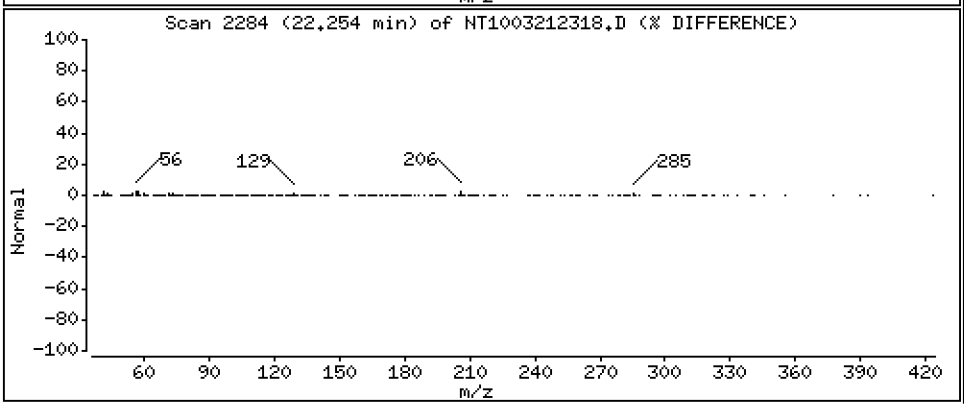












Date : 22-MAR-2023 04:03

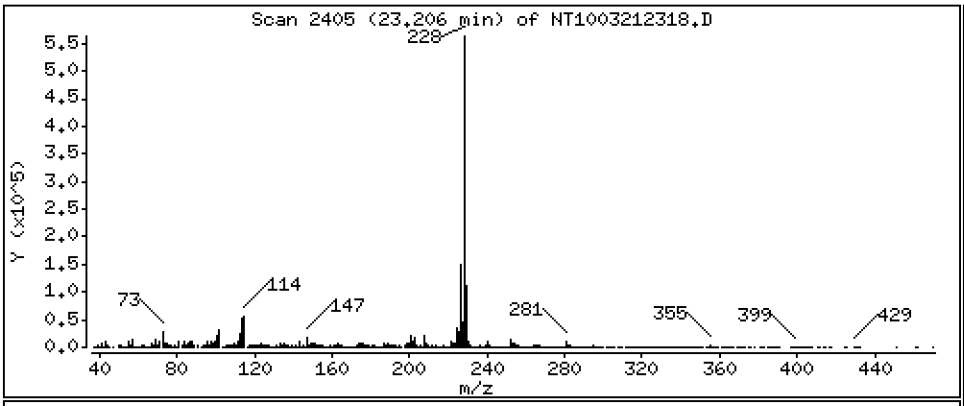
Client ID: Instrument: nt10.i

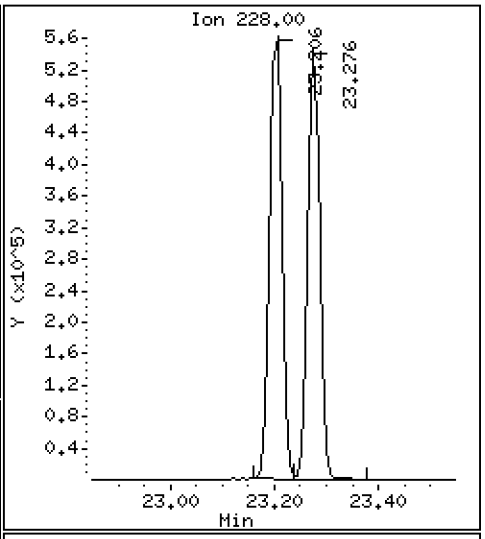
Sample Info: SLC0451-CCV1

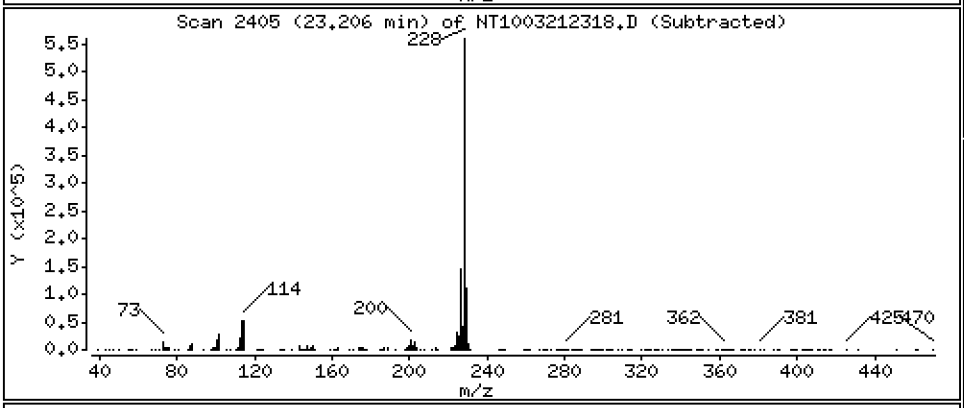
Operator: VTS

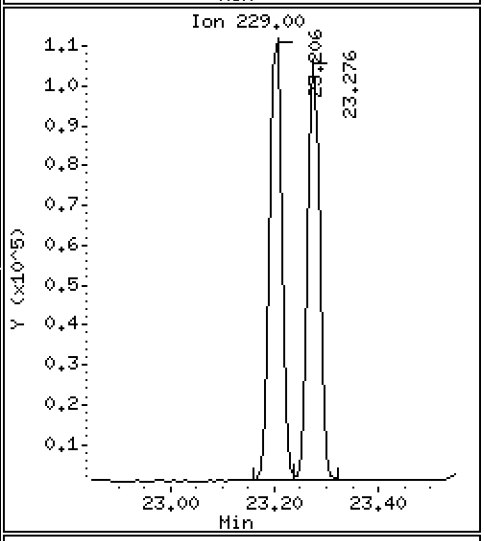
Column phase: ZB-5msi Column diameter: 0.25

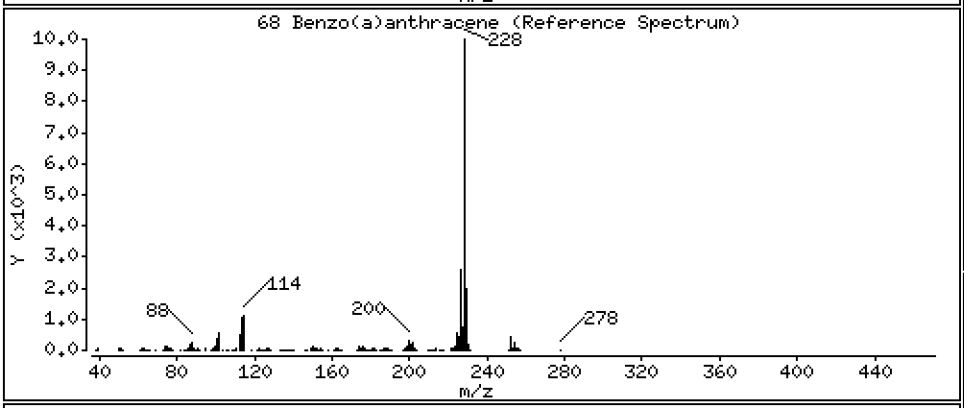
68 Benzo(a)anthracene Concentration: 4.884 ug/mL

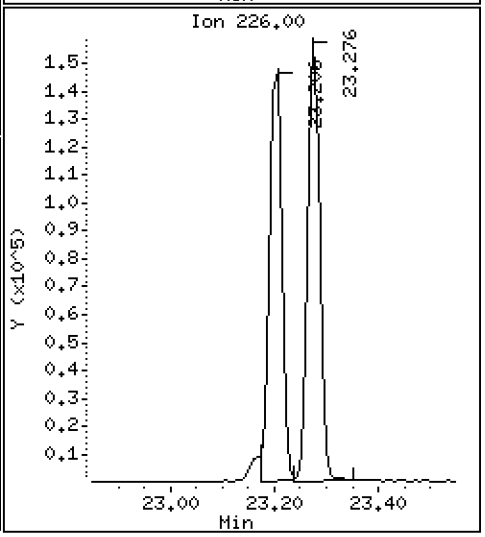


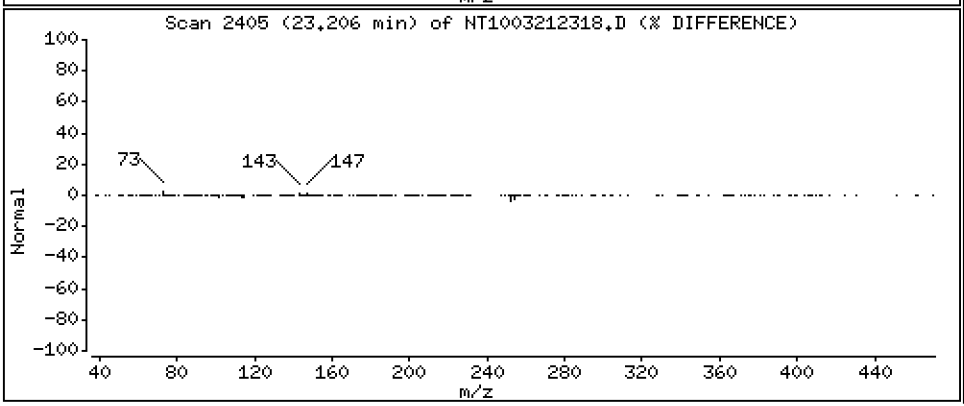












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Date : 22-MAR-2023 04:03

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-CCV1

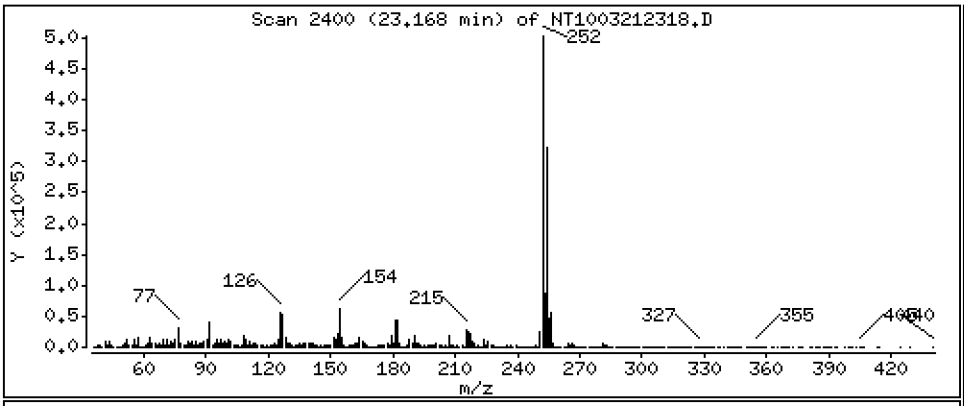
Operator: VTS

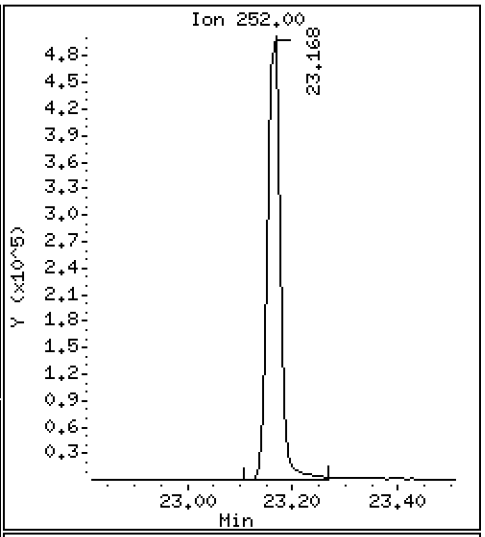
Column phase: ZB-5msi

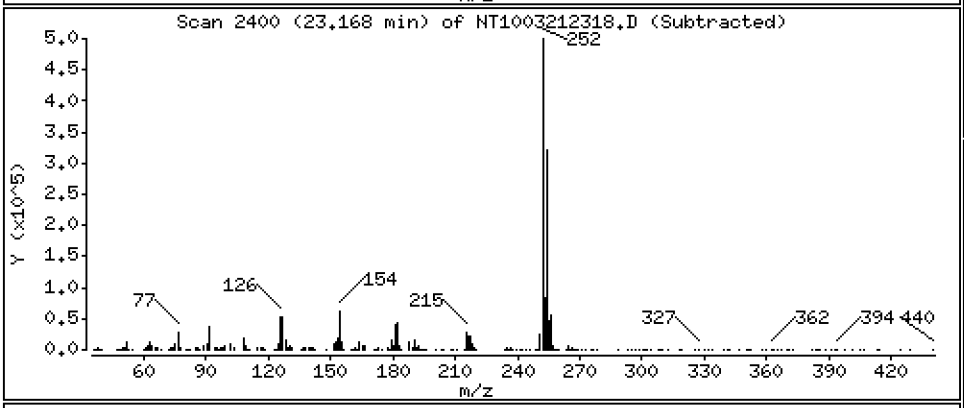
Column diameter: 0.25

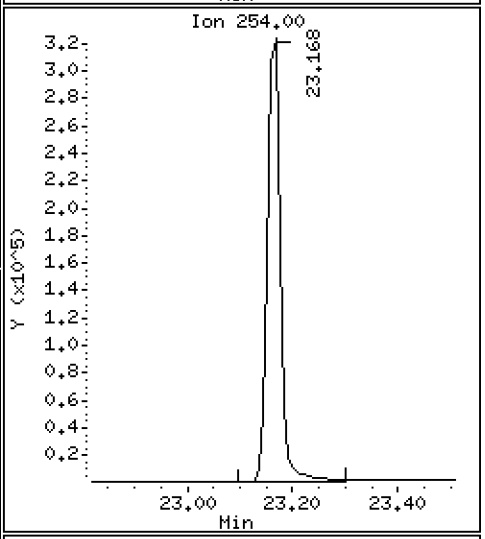
70 3,3'-Dichlorobenzidine

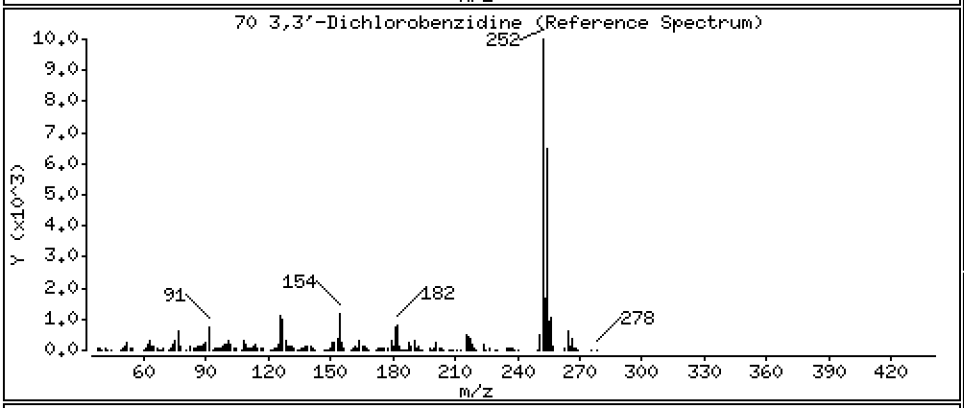
Concentration: 14.11 ug/mL

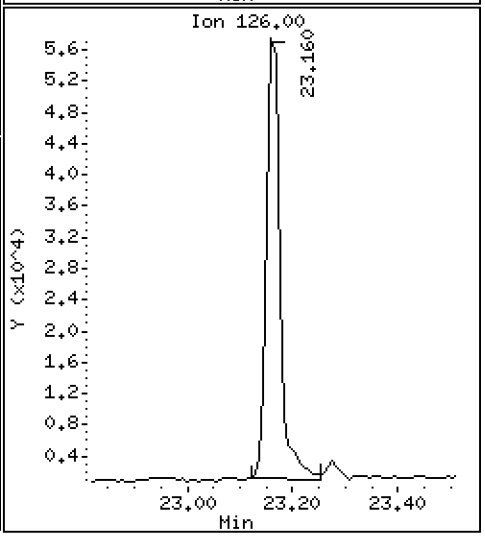


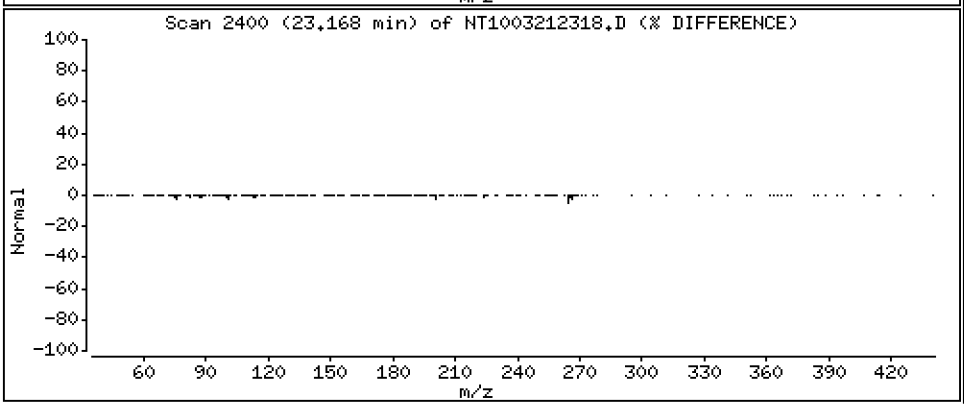












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Date : 22-MAR-2023 04:03

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-CCV1

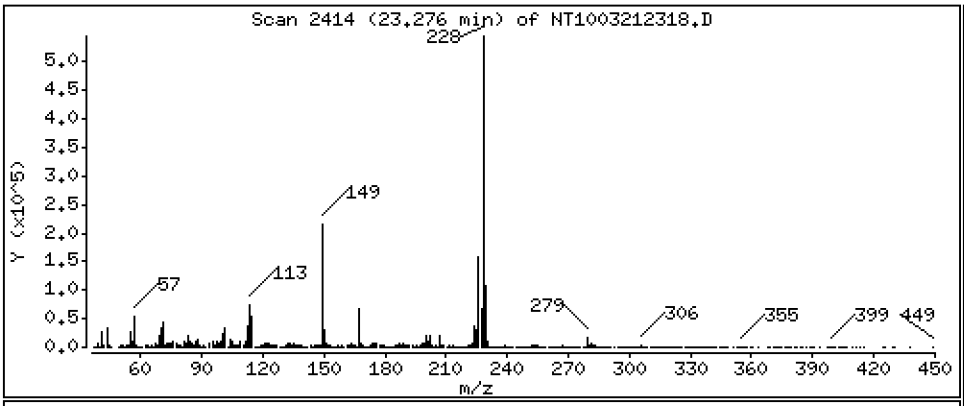
Operator: VTS

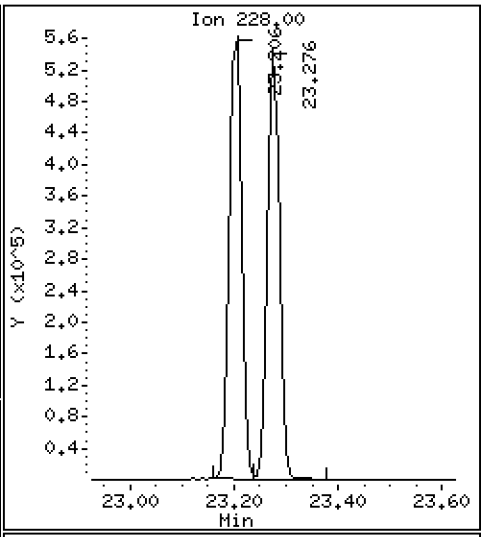
Column phase: ZB-5msi

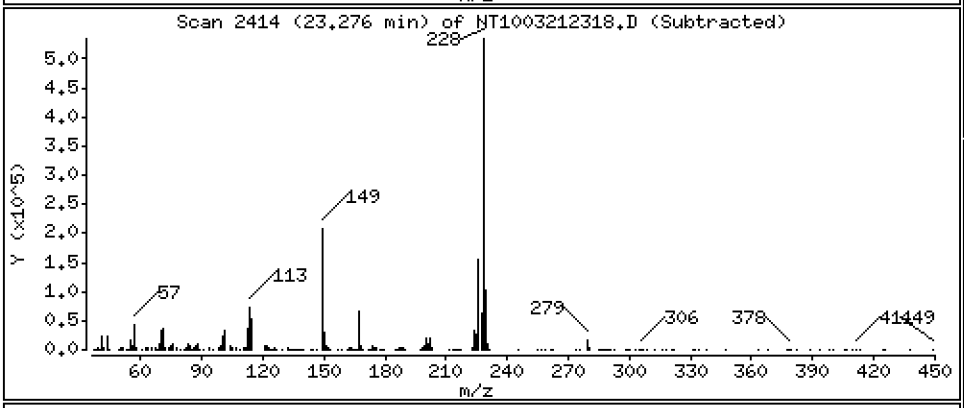
Column diameter: 0.25

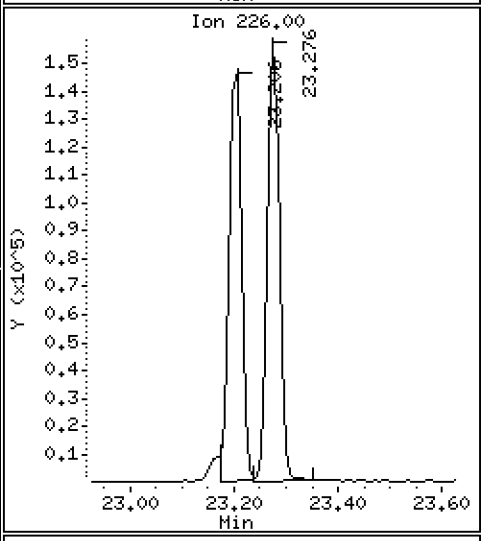
71 Chrysene

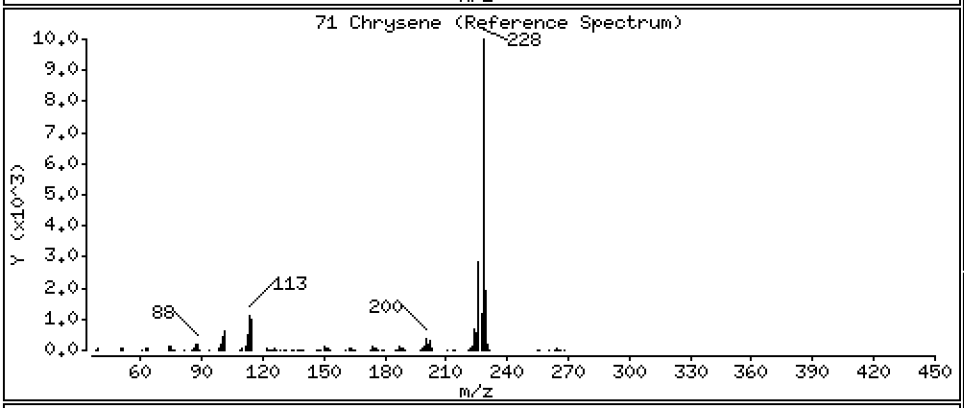
Concentration: 4.711 ug/mL

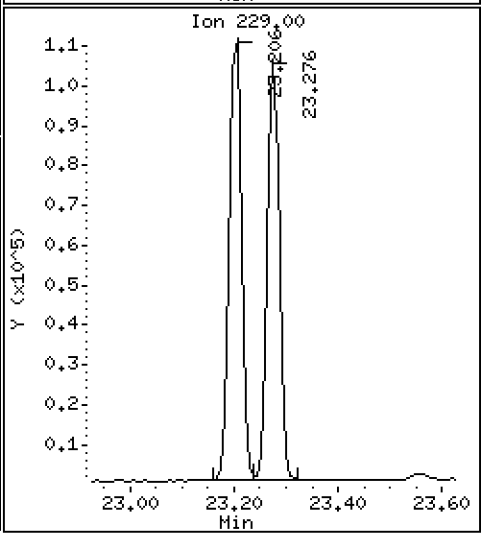


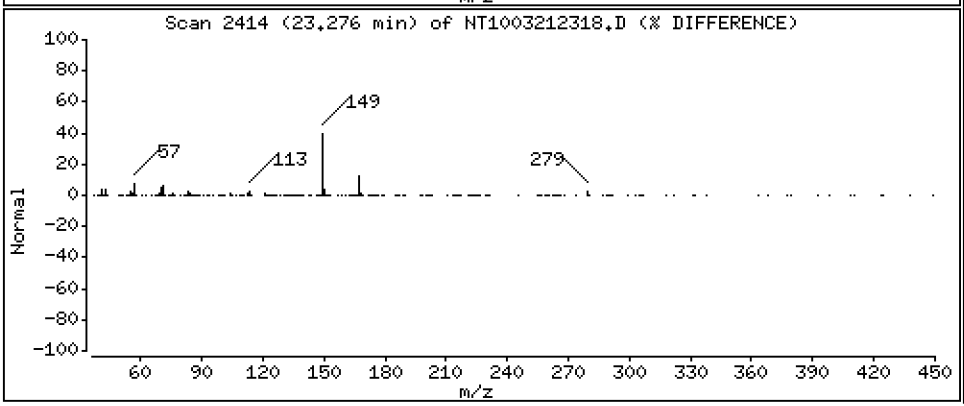












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Date : 22-MAR-2023 04:03

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-CCV1

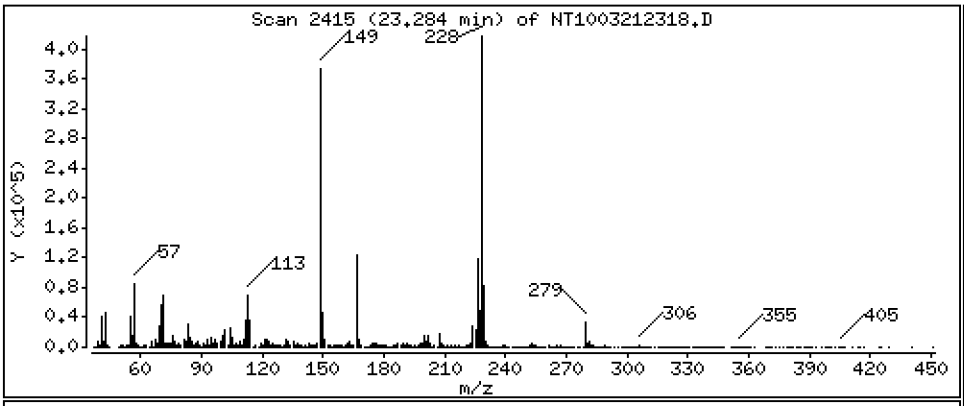
Operator: VTS

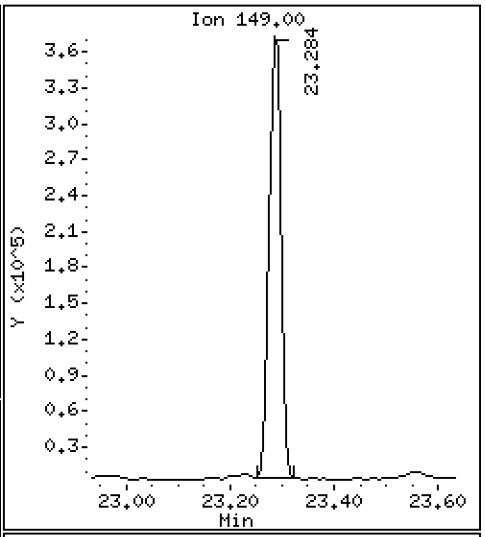
Column phase: ZB-5msi

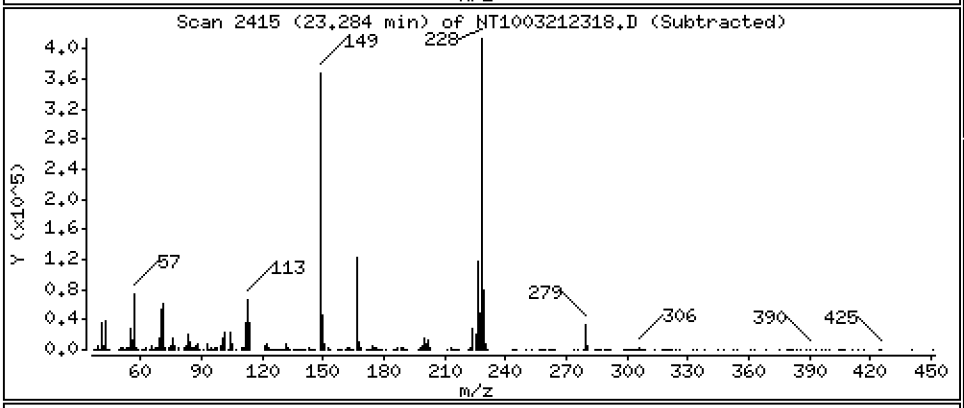
Column diameter: 0.25

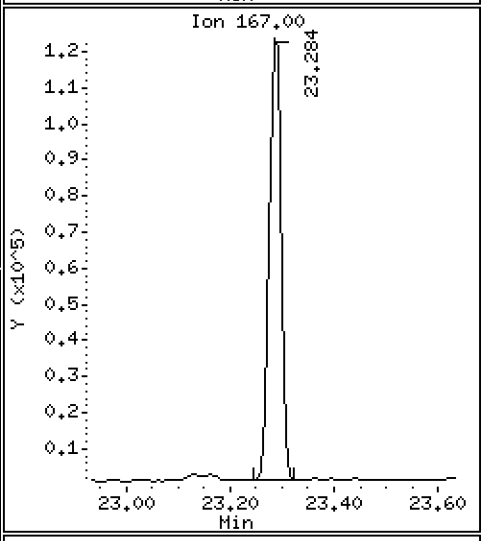
72 bis(2-Ethylhexyl)phthalate

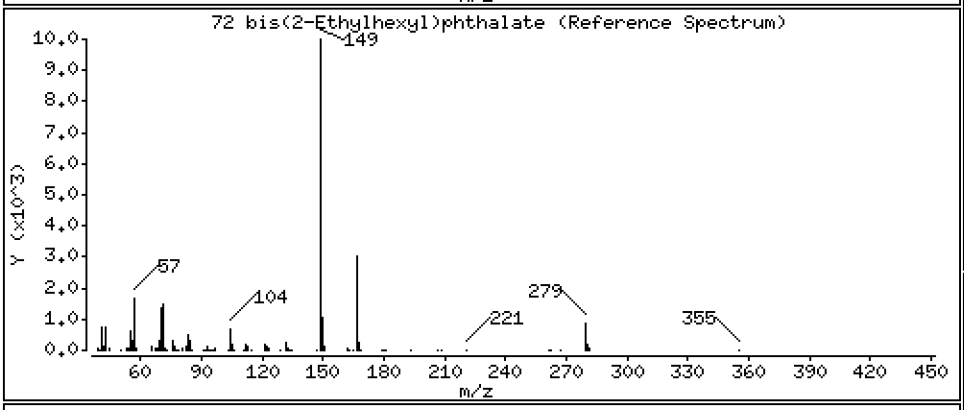
Concentration: 4.546 ug/mL

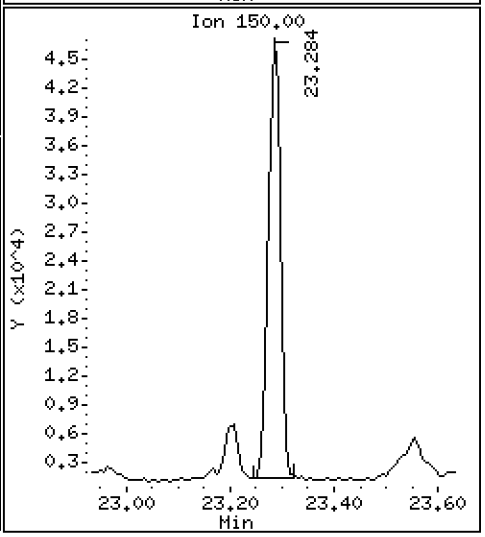


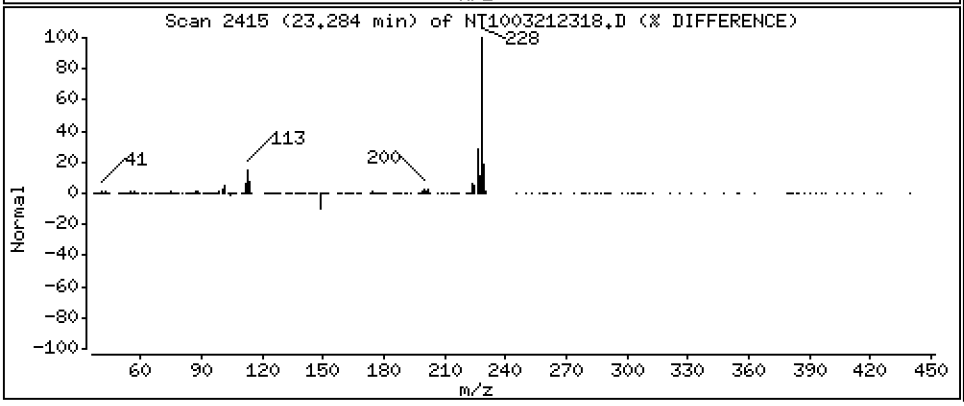












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Date : 22-MAR-2023 04:03

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-CCV1

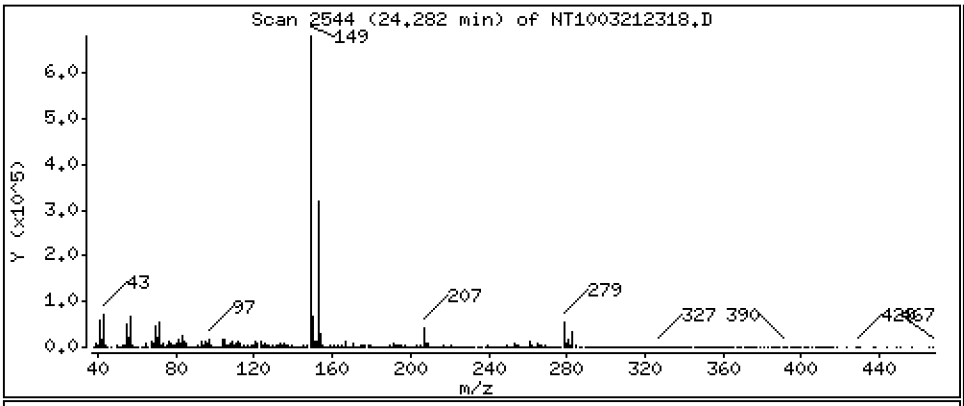
Operator: VTS

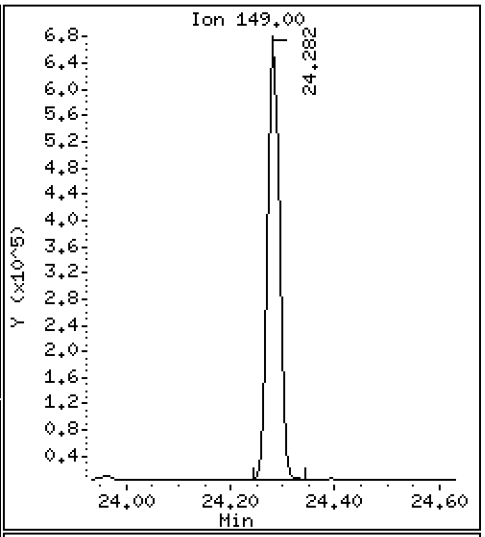
Column phase: ZB-5msi

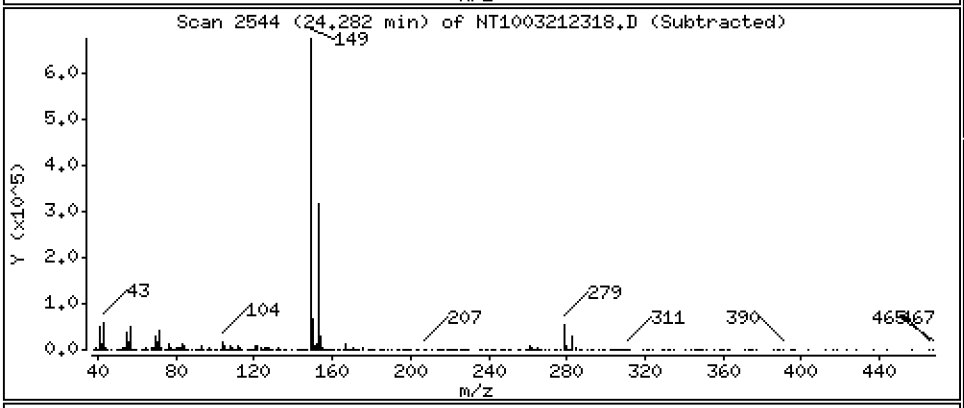
Column diameter: 0.25

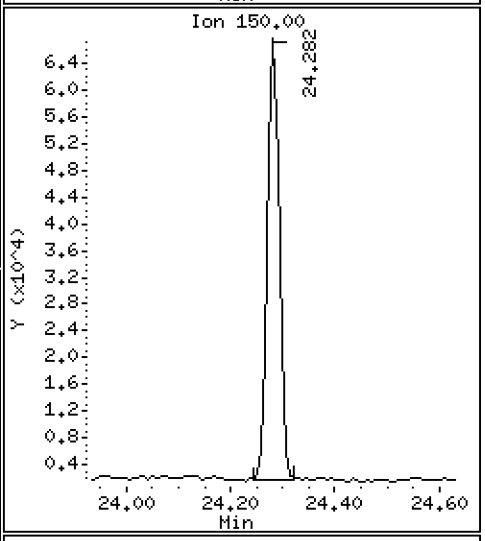
73 Di-n-octylphthalate

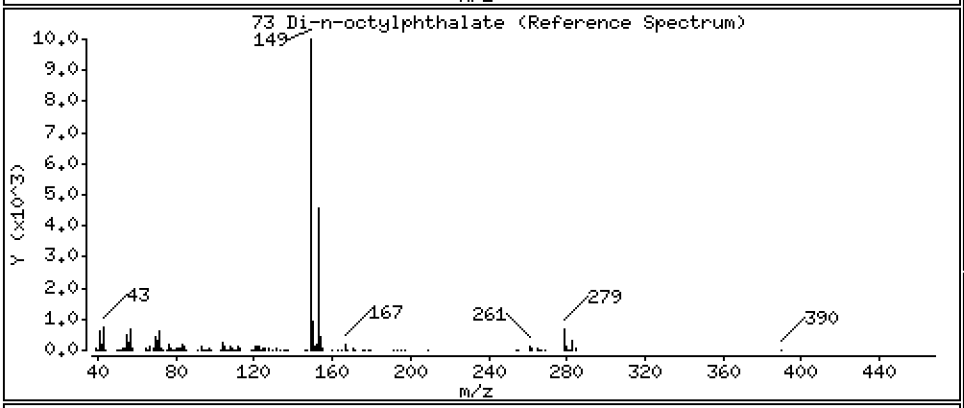
Concentration: 4.560 ug/mL

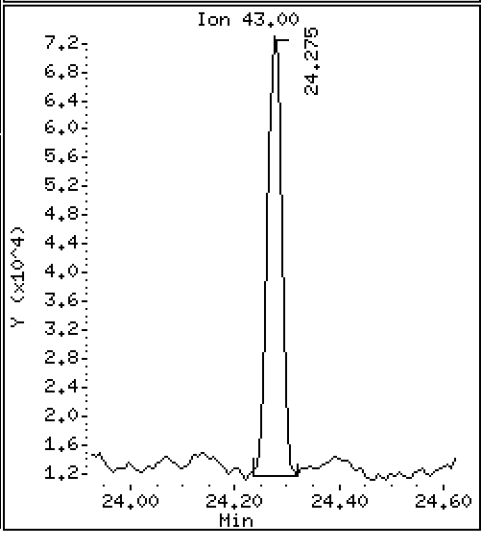


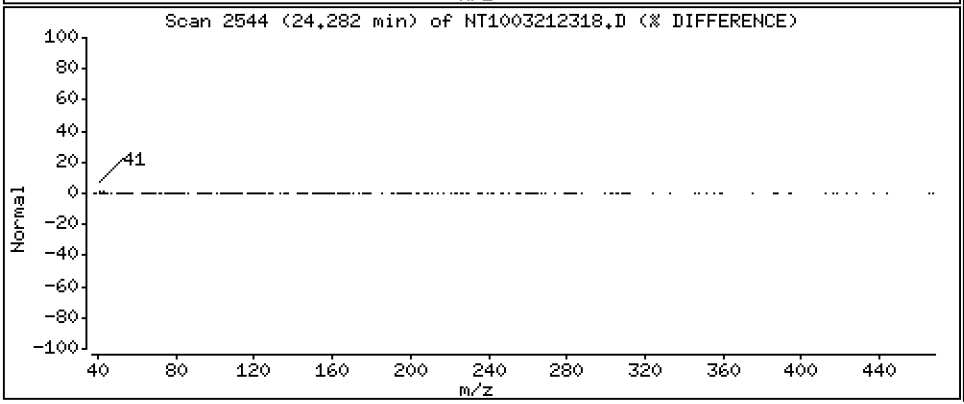












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Date : 22-MAR-2023 04:03

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-CCV1

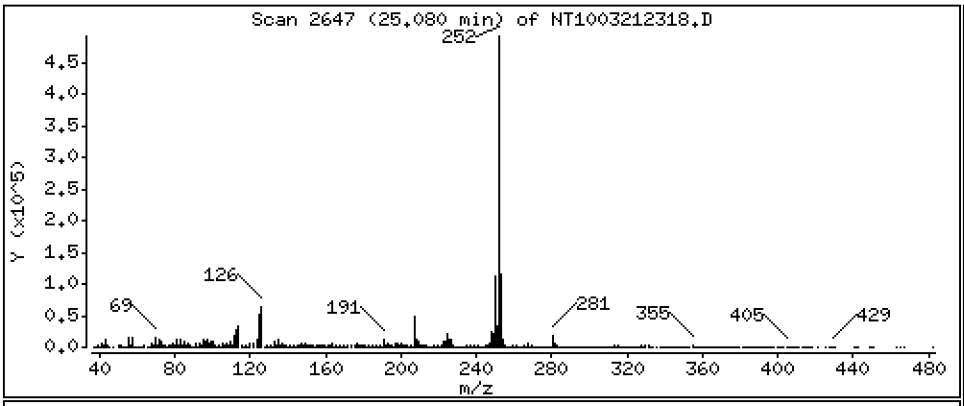
Operator: VTS

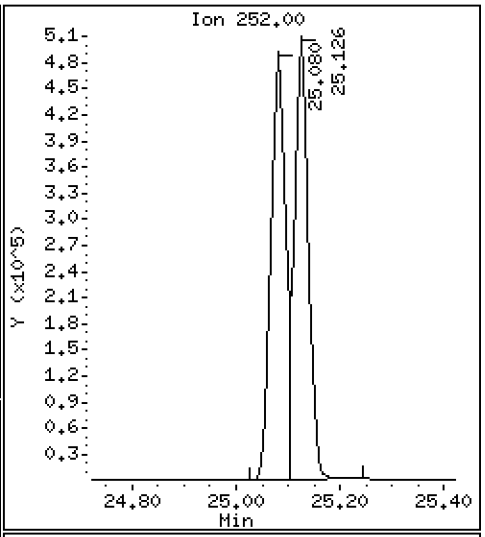
Column phase: ZB-5msi

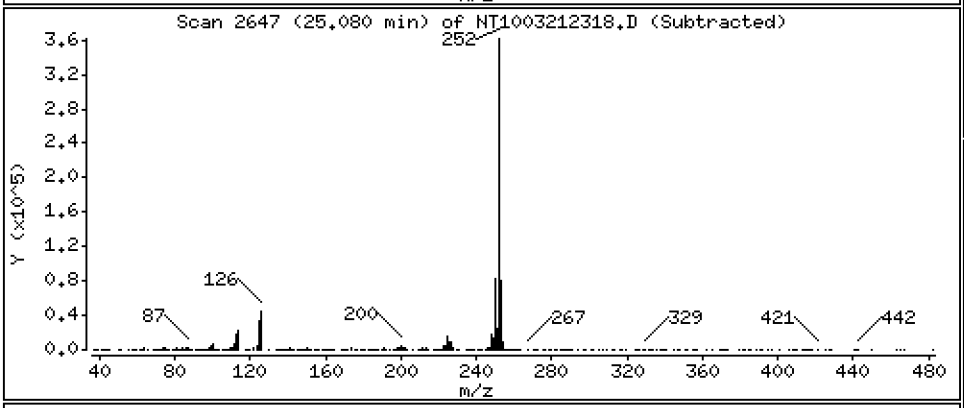
Column diameter: 0.25

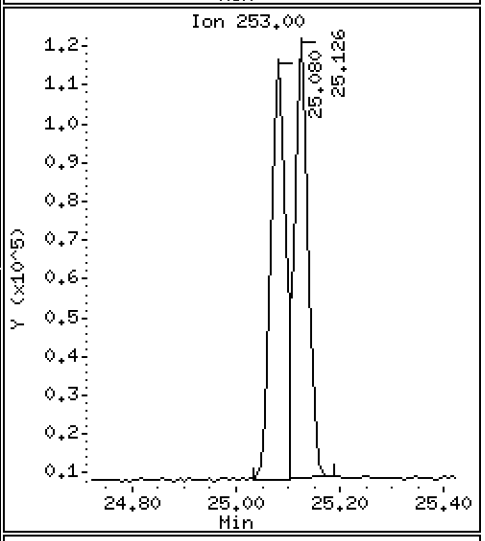
74 Benzo(b)fluoranthene

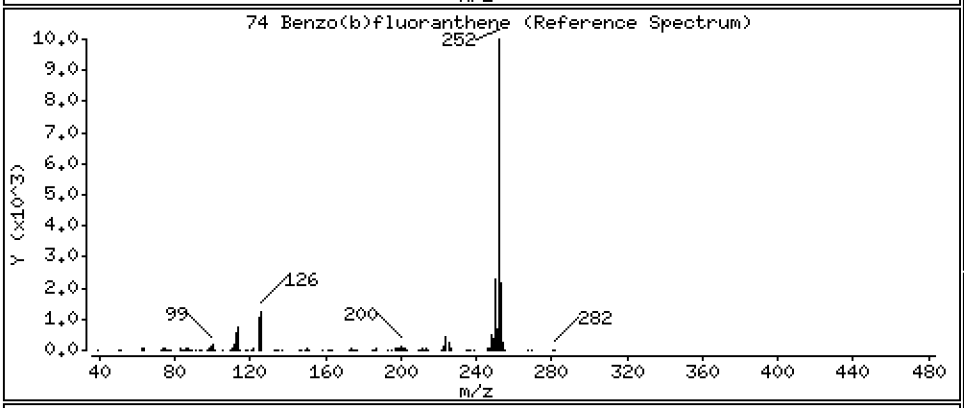
Concentration: 4.972 ug/mL

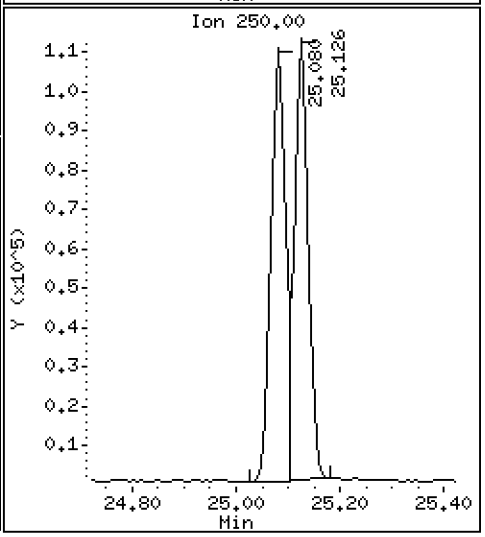


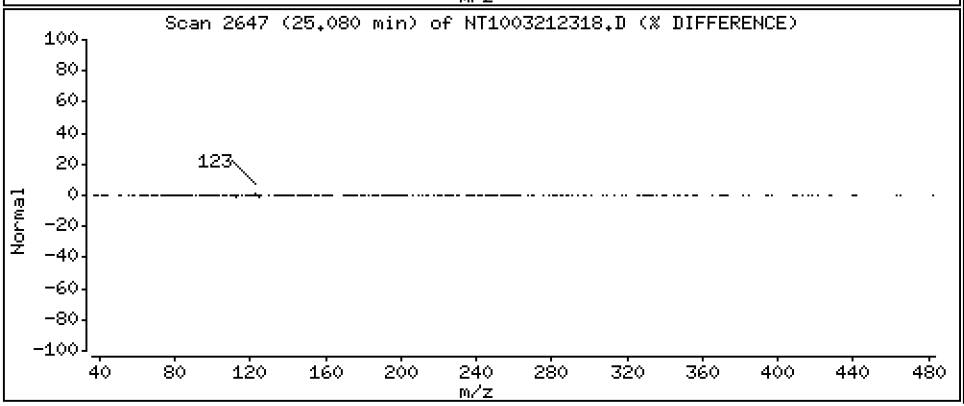












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Date : 22-MAR-2023 04:03

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-CCV1

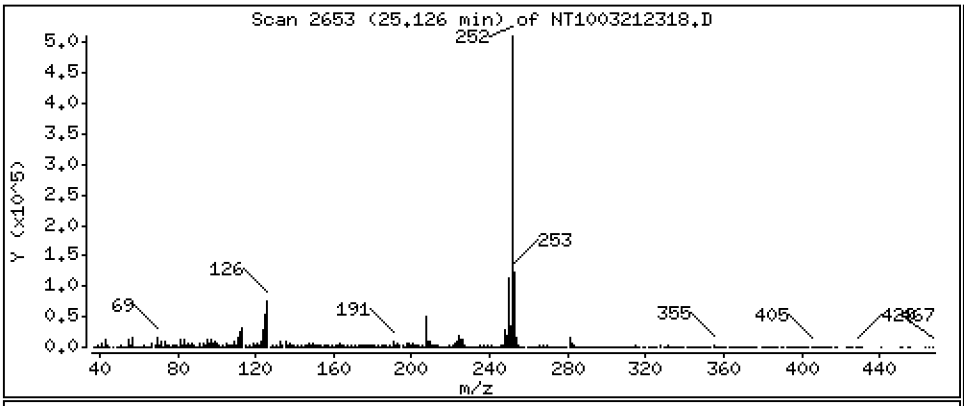
Operator: VTS

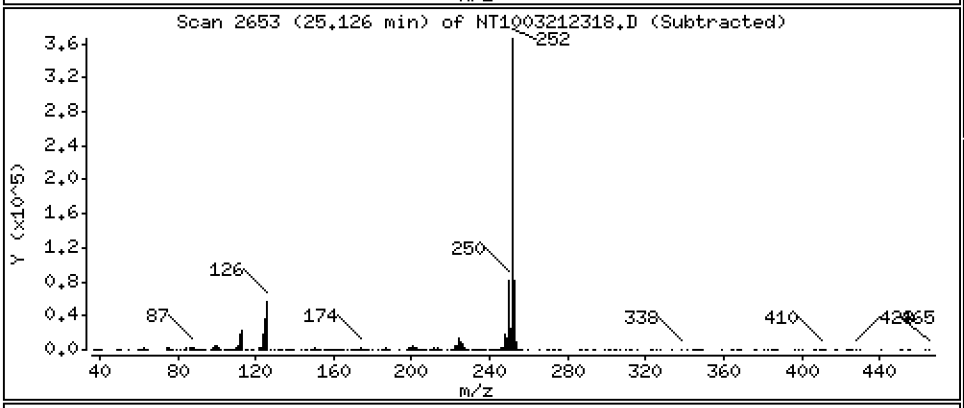
Column phase: ZB-5msi

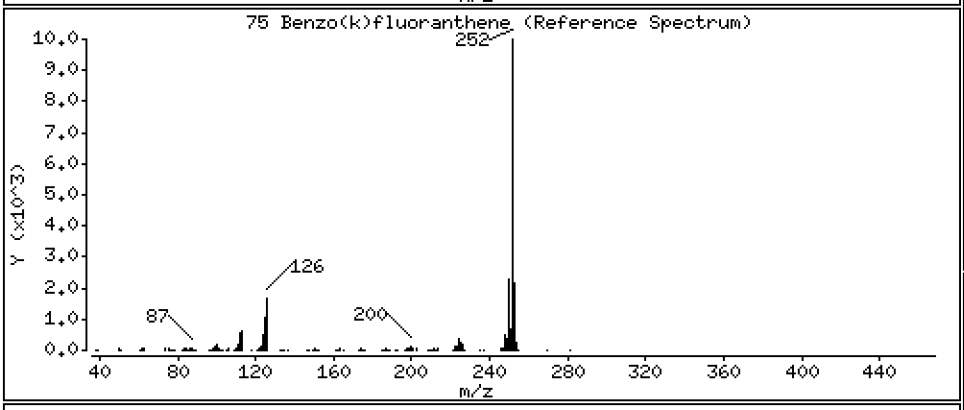
Column diameter: 0.25

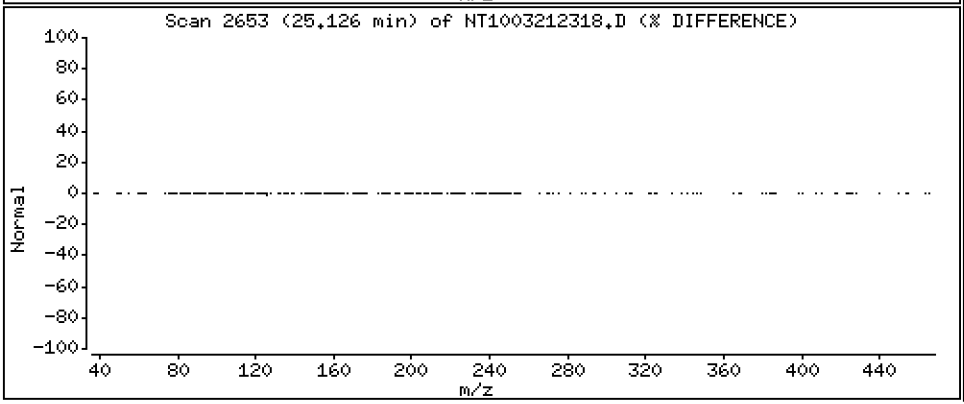
75 Benzo(k)fluoranthene

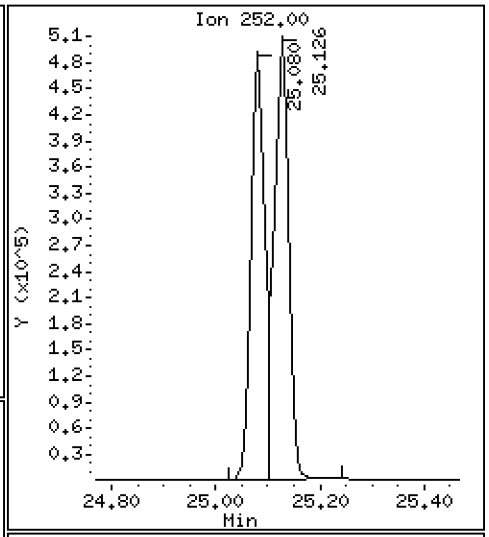
Concentration: 5.069 ug/mL

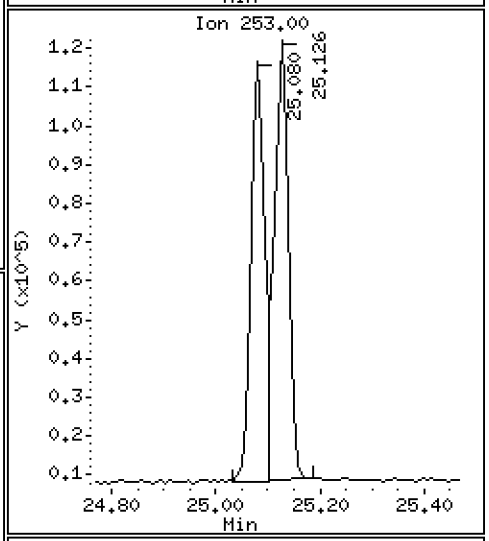


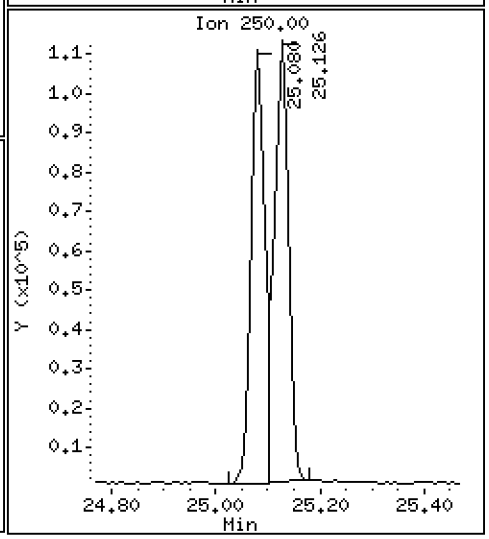












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Date : 22-MAR-2023 04:03

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-CCV1

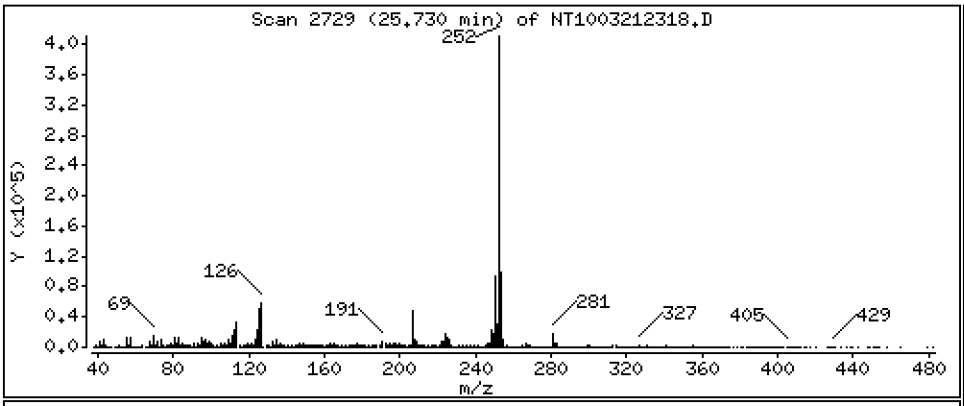
Operator: VTS

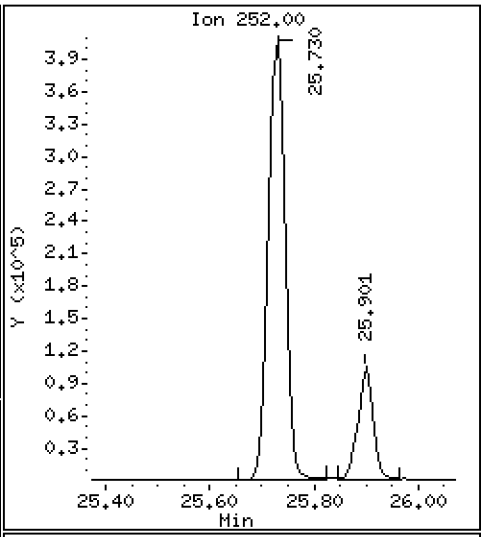
Column phase: ZB-5msi

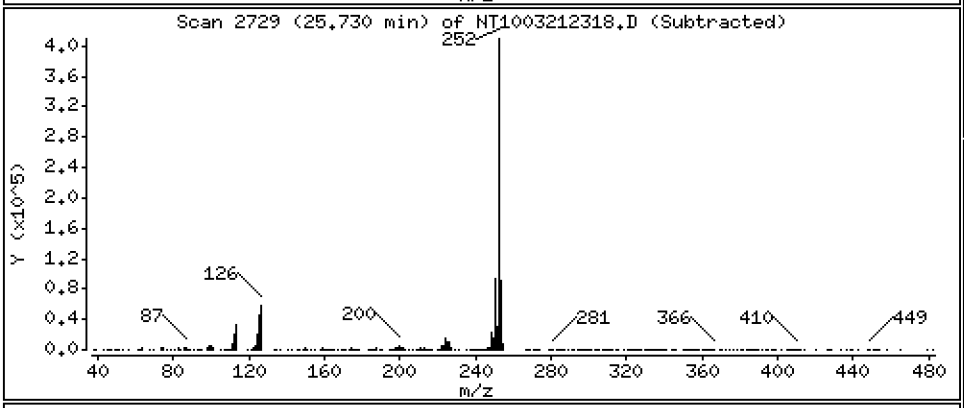
Column diameter: 0.25

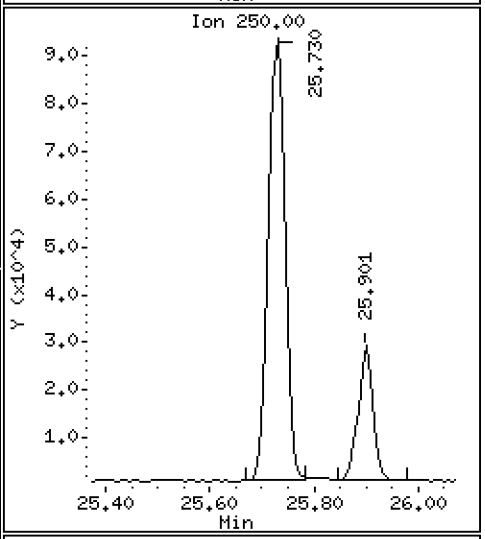
76 Benzo(a)pyrene

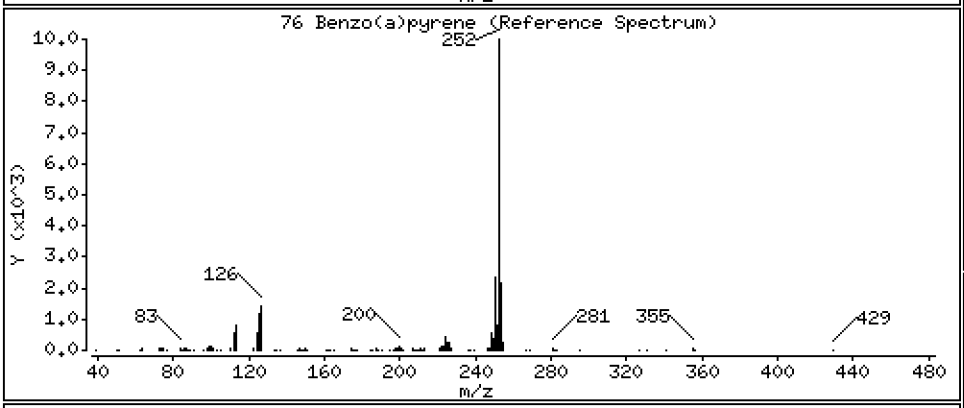
Concentration: 5.138 ug/mL

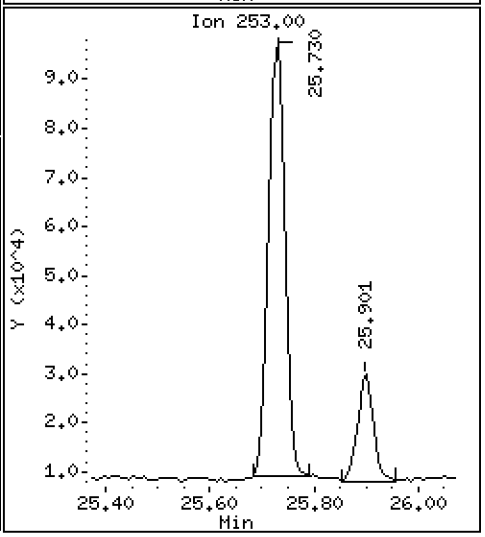


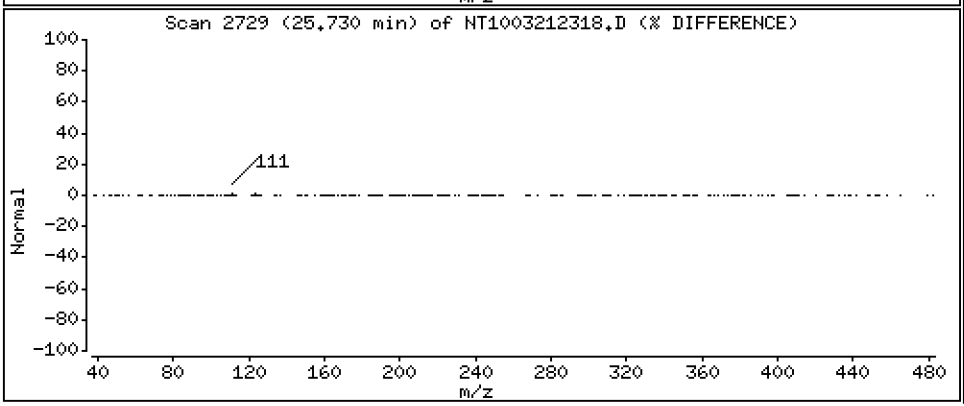












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Date : 22-MAR-2023 04:03

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-CCV1

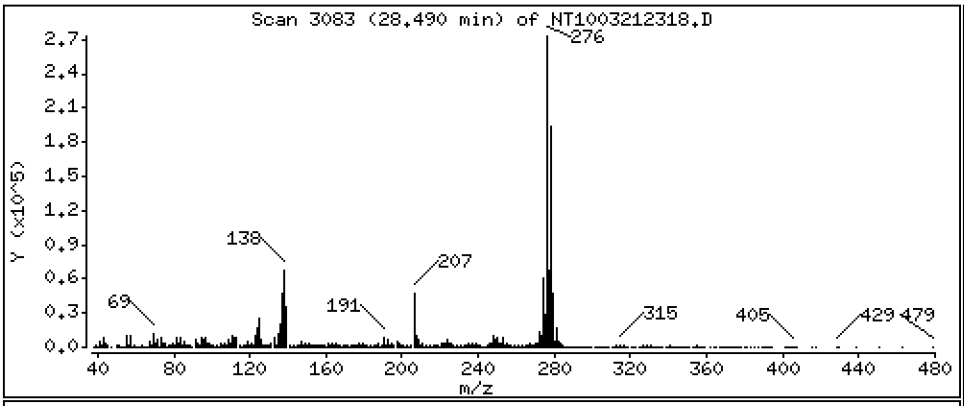
Operator: VTS

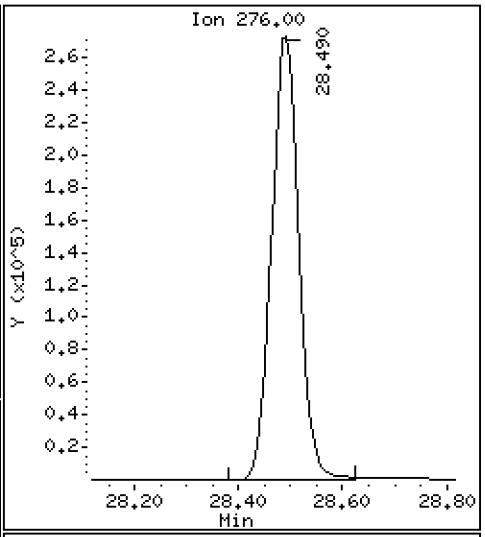
Column phase: ZB-5msi

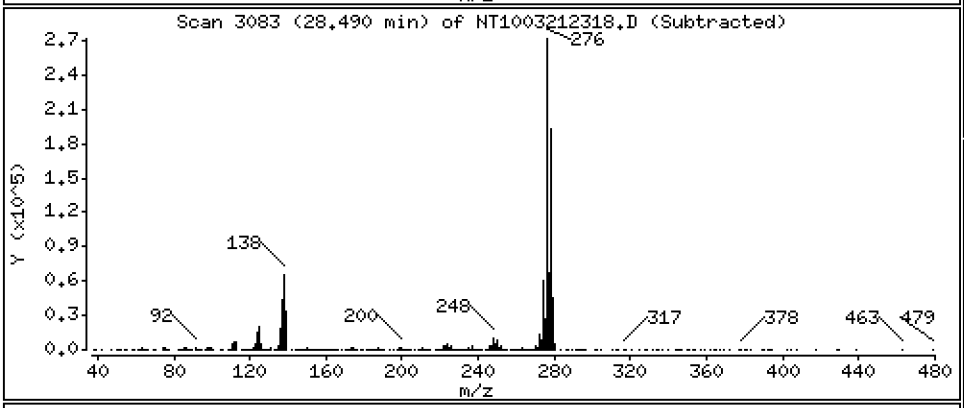
Column diameter: 0.25

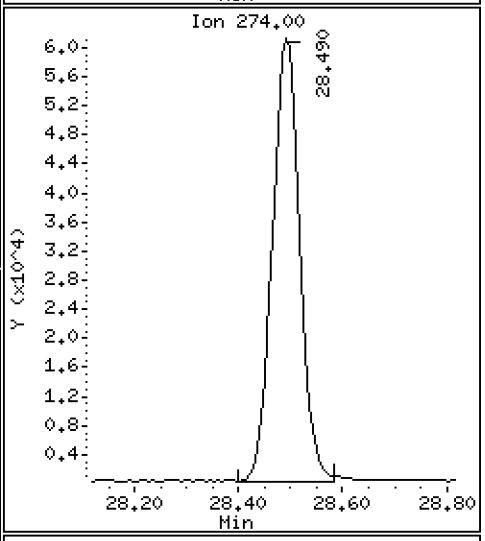
78 Indeno(1,2,3-cd)pyrene

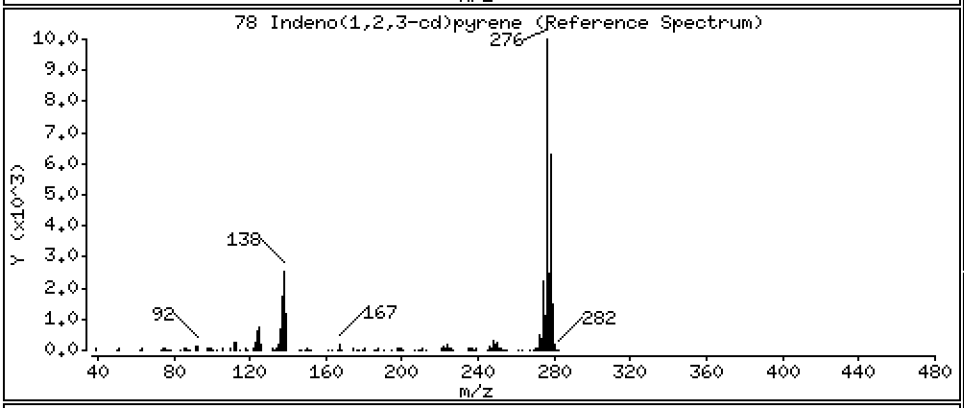
Concentration: 4.556 ug/mL

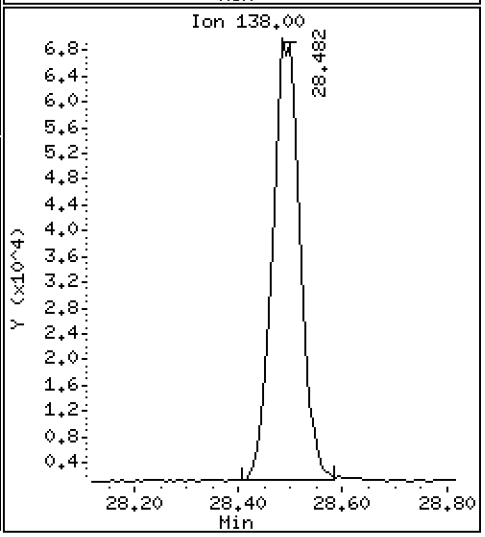


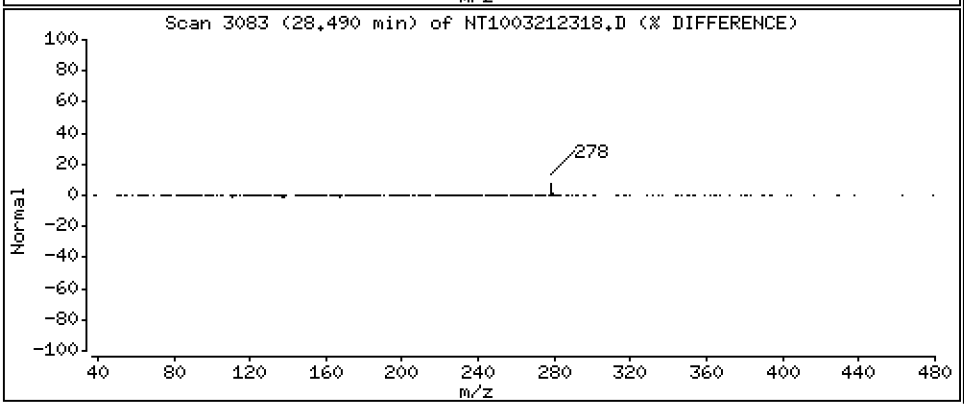












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Date : 22-MAR-2023 04:03

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-CCV1

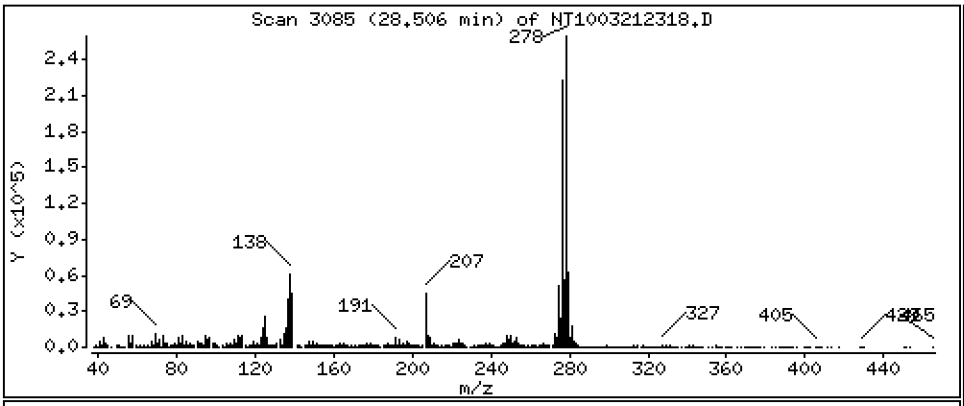
Operator: VTS

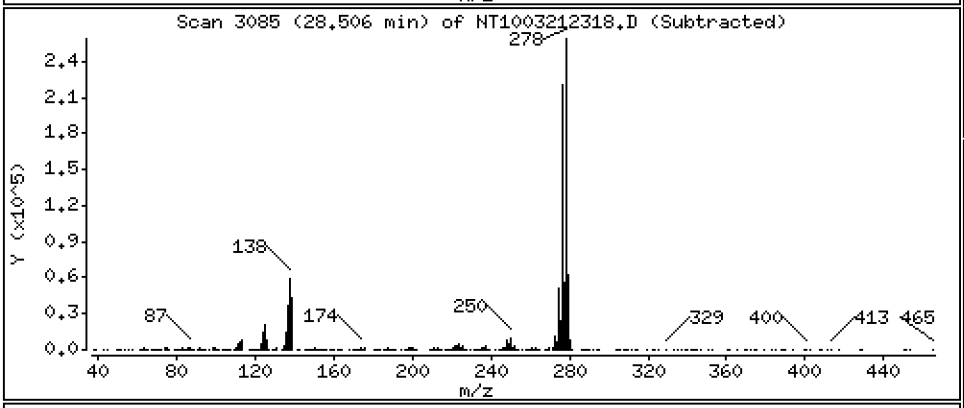
Column phase: ZB-5msi

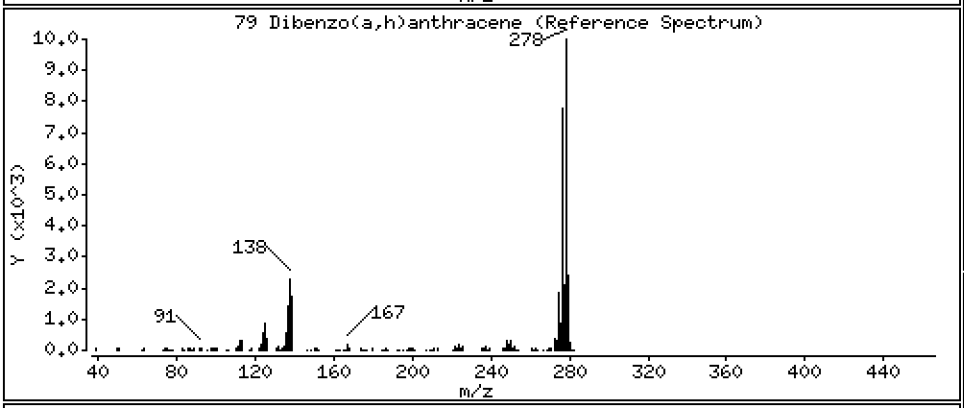
Column diameter: 0.25

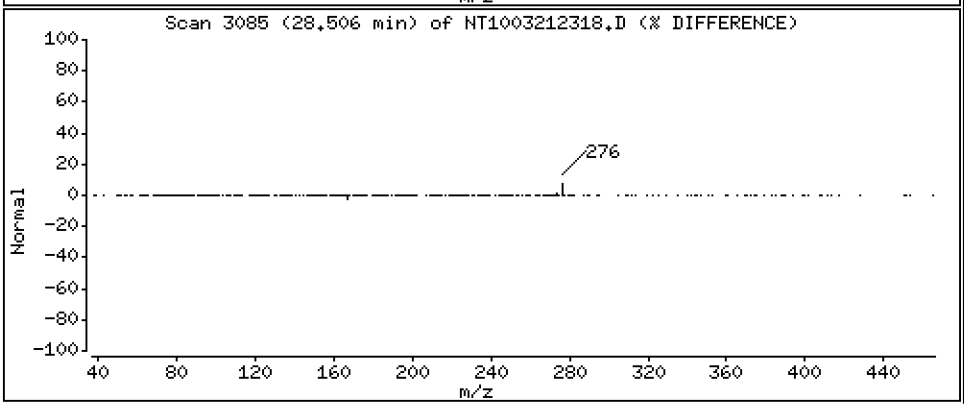
79 Dibenzo(a,h)anthracene

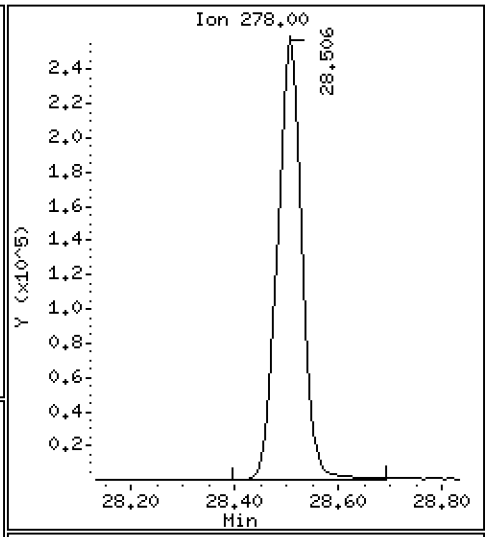
Concentration: 4.680 ug/mL

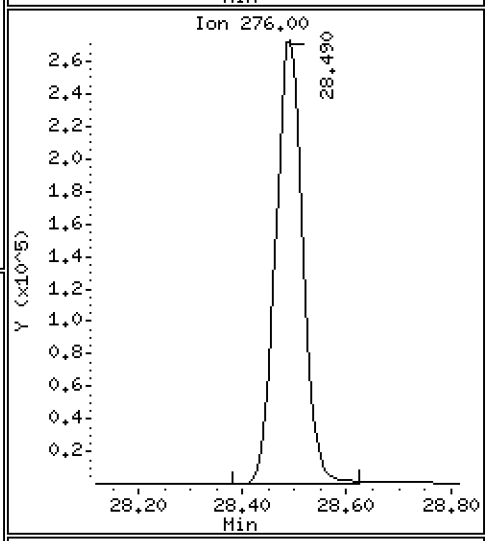


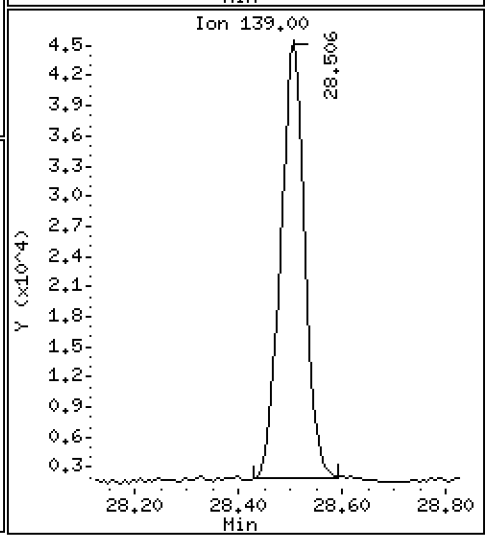












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Date : 22-MAR-2023 04:03

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-CCV1

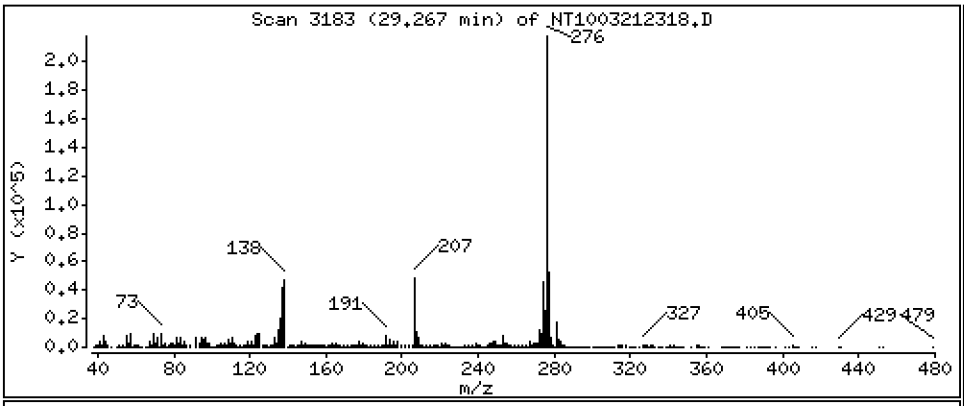
Operator: VTS

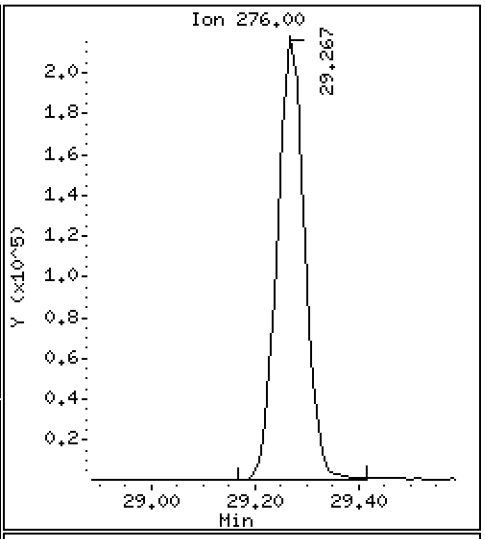
Column phase: ZB-5msi

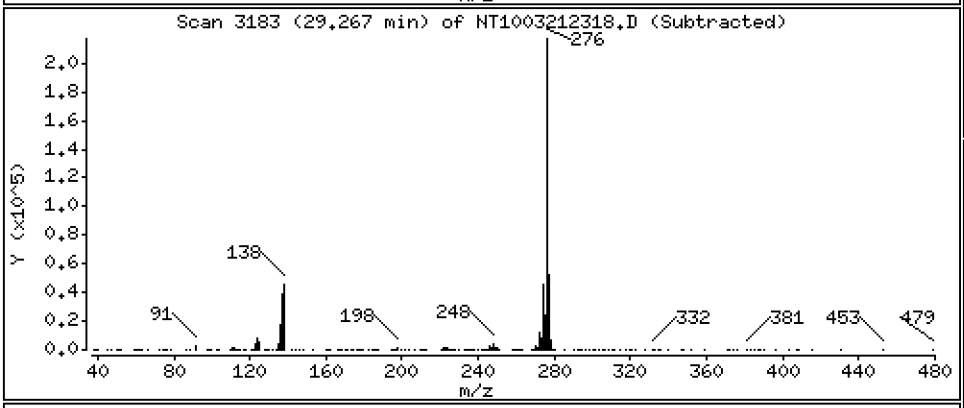
Column diameter: 0.25

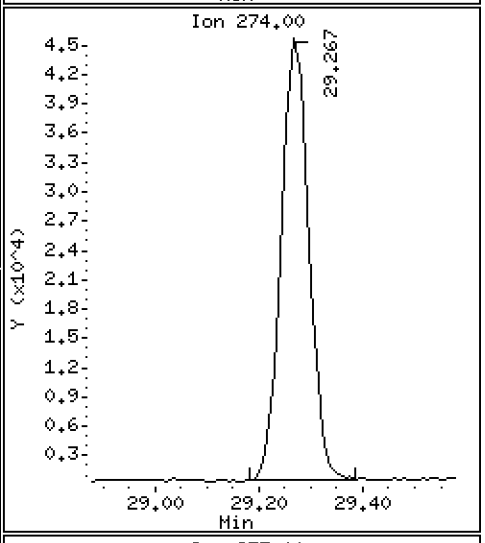
80 Benzo(g,h,i)perylene

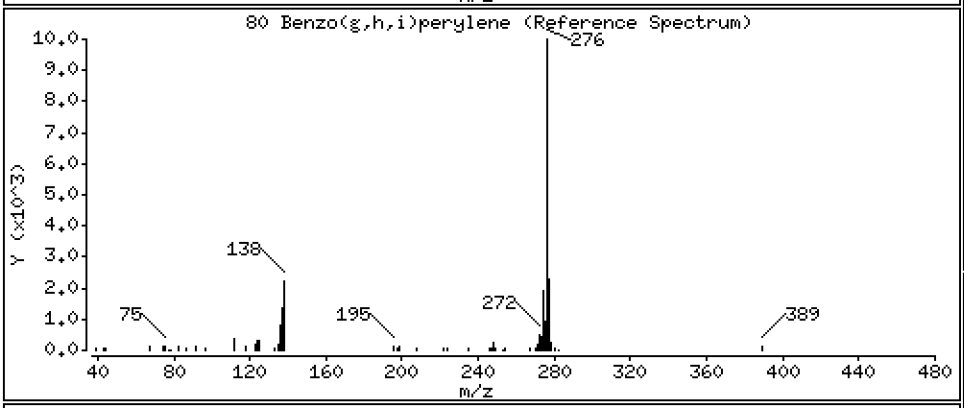
Concentration: 4.306 ug/mL

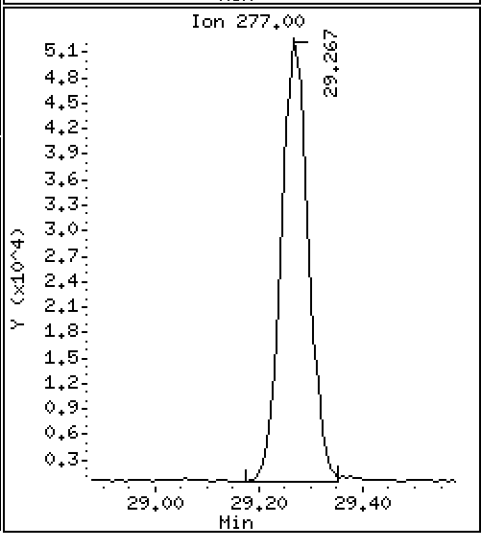


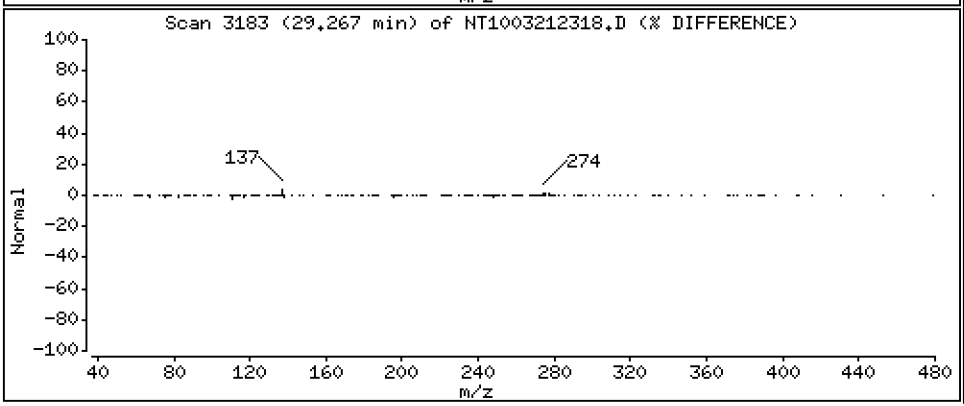












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212318.D

Date : 22-MAR-2023 04:03

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-CCV1

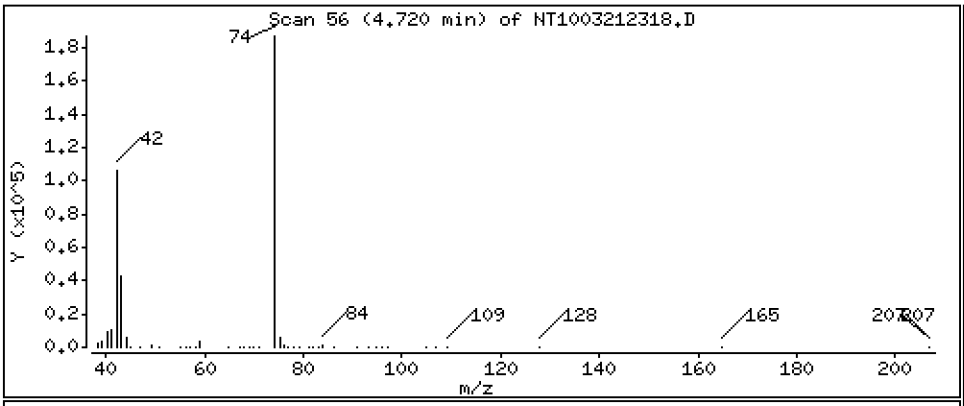
Operator: VTS

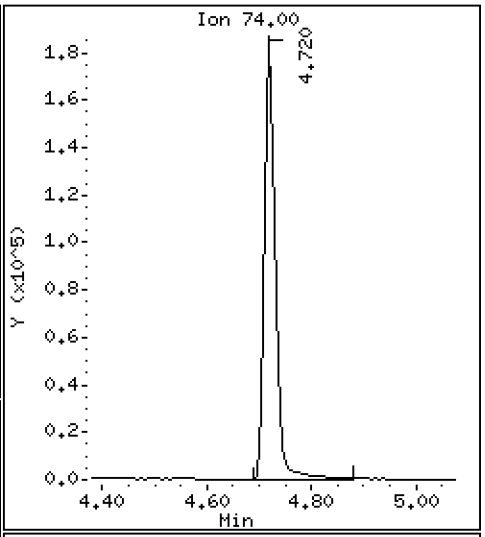
Column phase: ZB-5msi

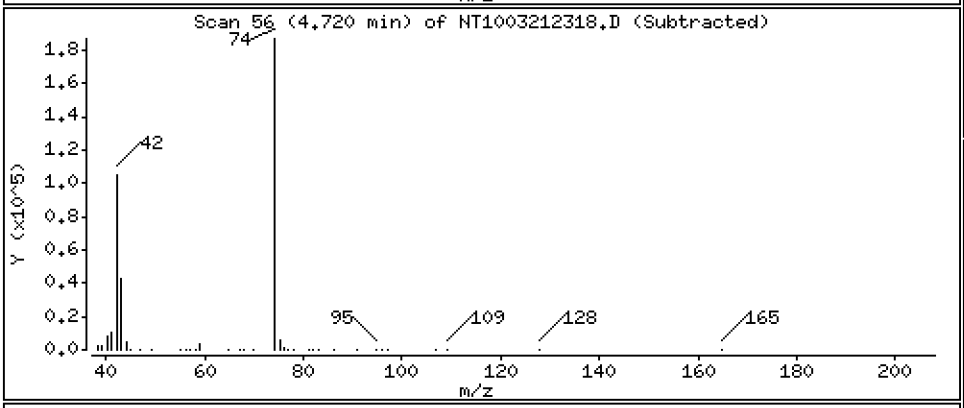
Column diameter: 0.25

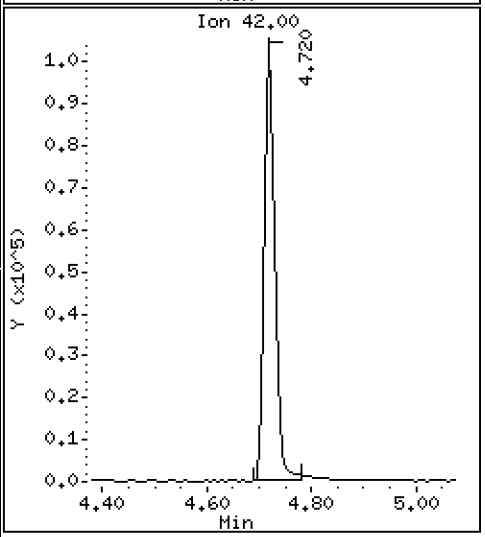
90 N-Nitrosodimethylamine

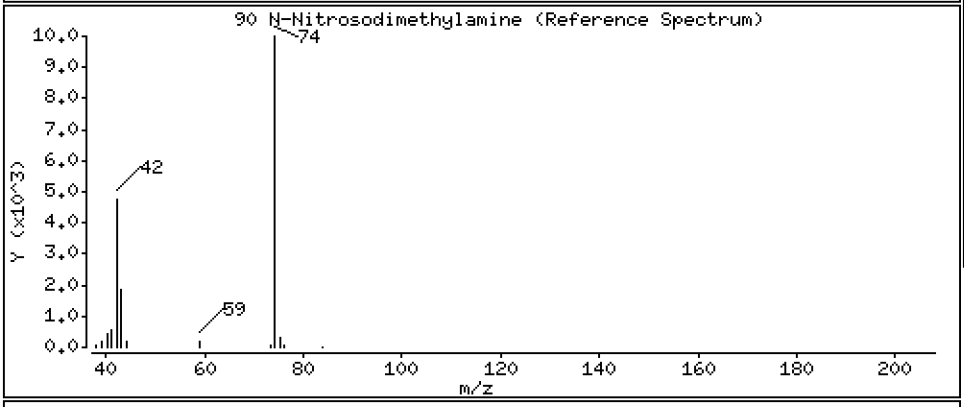
Concentration: 9.357 ug/mL

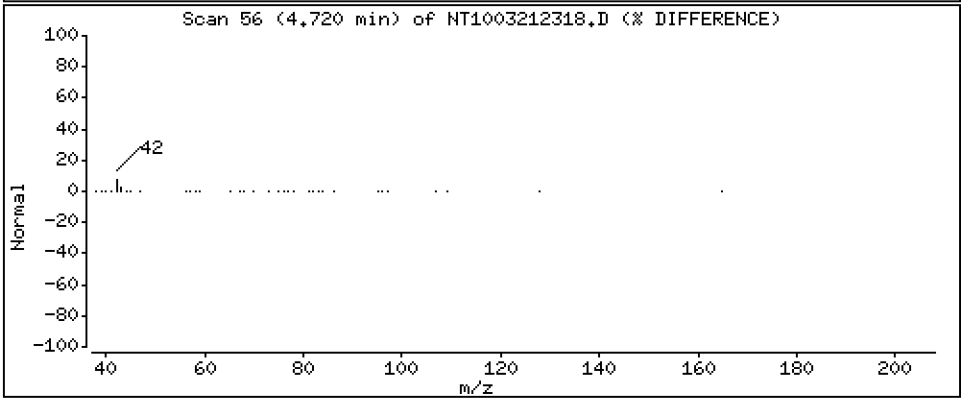












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212318.D

Date : 22-MAR-2023 04:03

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-CCV1

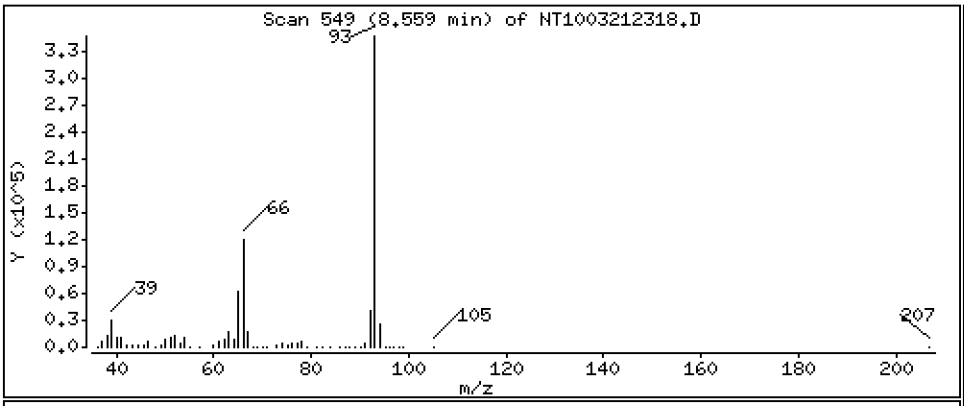
Operator: VTS

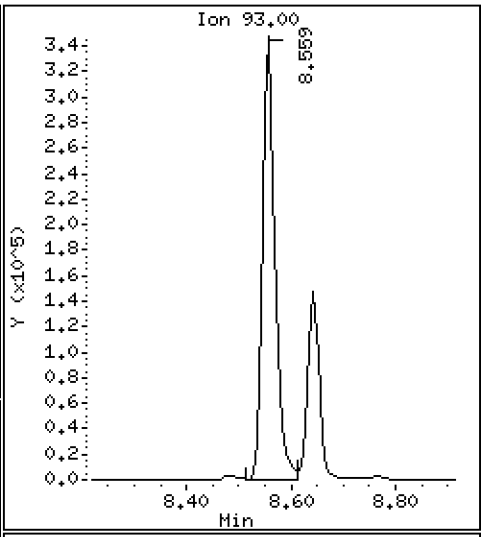
Column phase: ZB-5msi

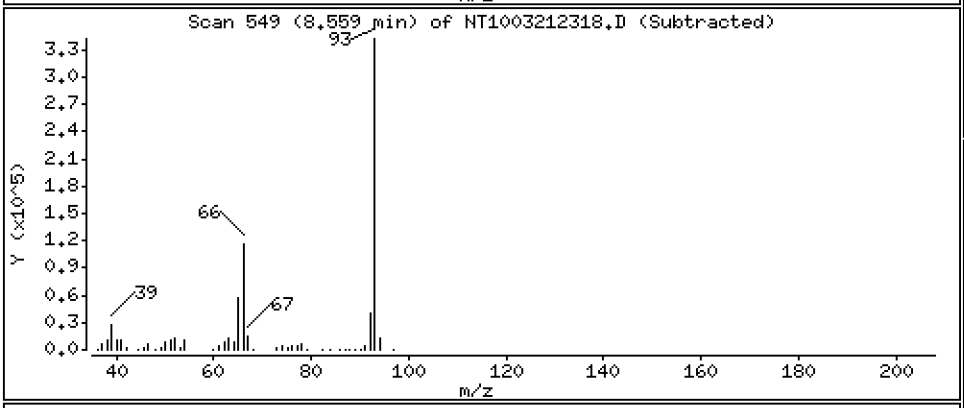
Column diameter: 0.25

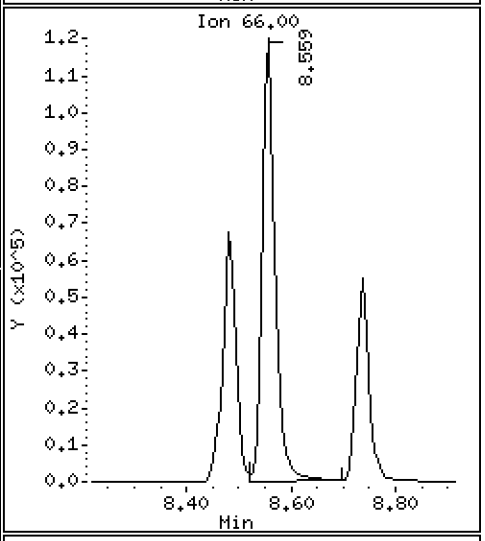
91 Aniline

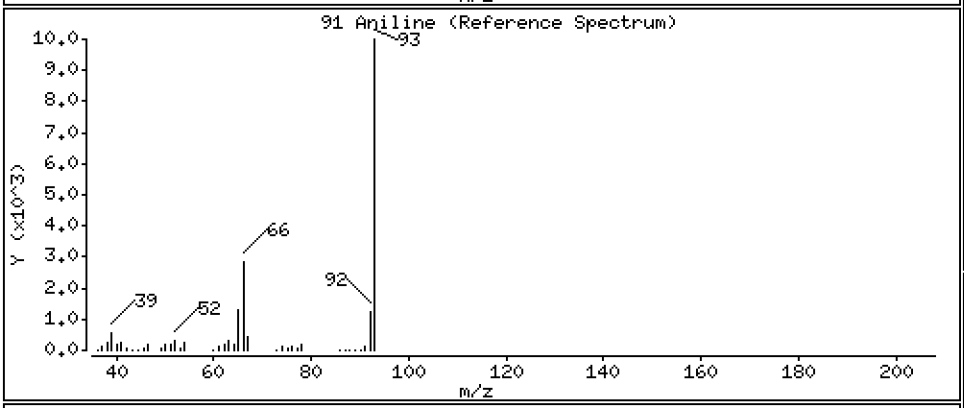
Concentration: 9.183 ug/mL

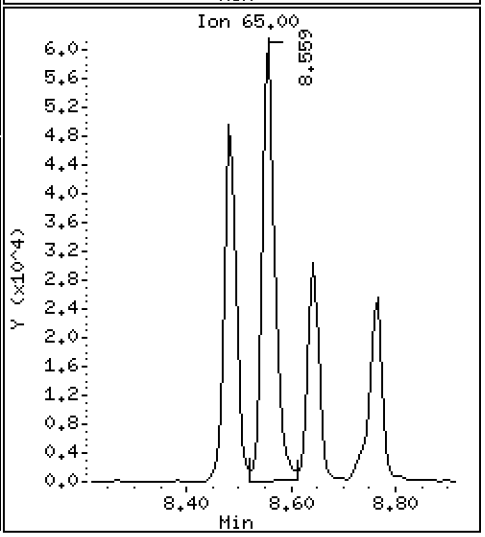


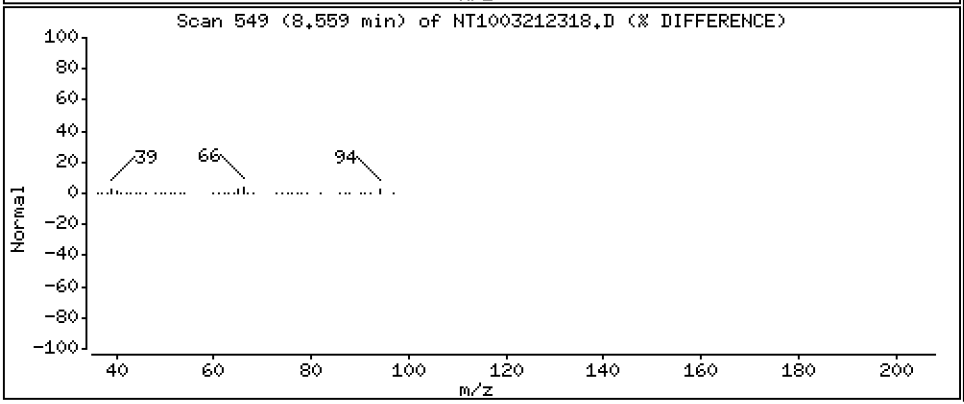












Date : 22-MAR-2023 04:03

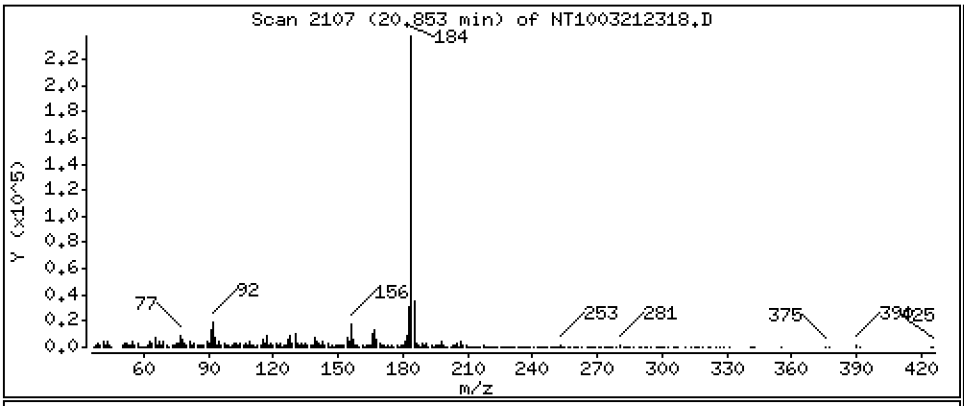
Client ID: Instrument: nt10.i

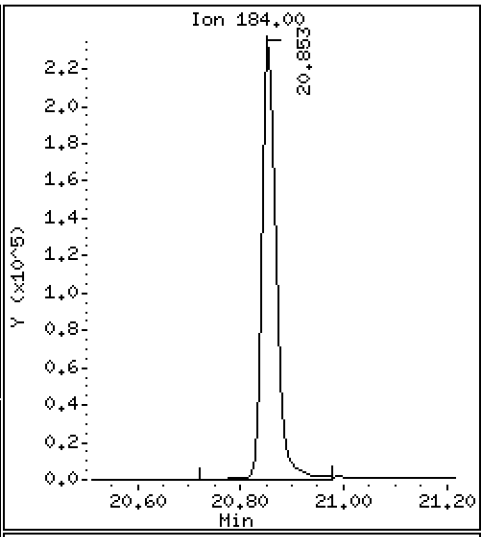
Sample Info: SLC0451-CCV1

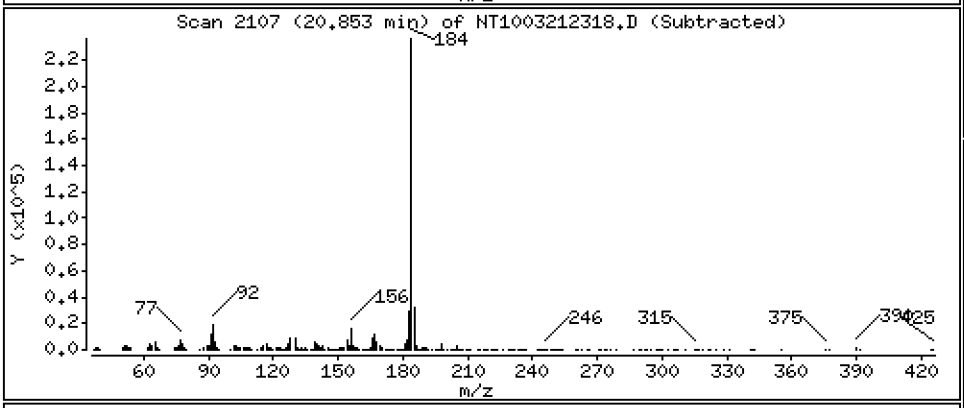
Operator: VTS

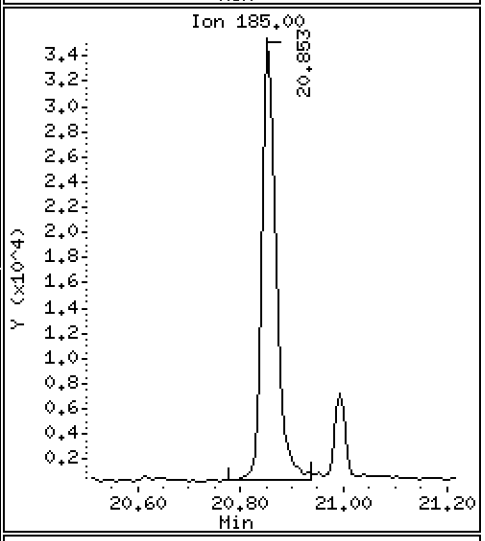
Column phase: ZB-5msi Column diameter: 0.25

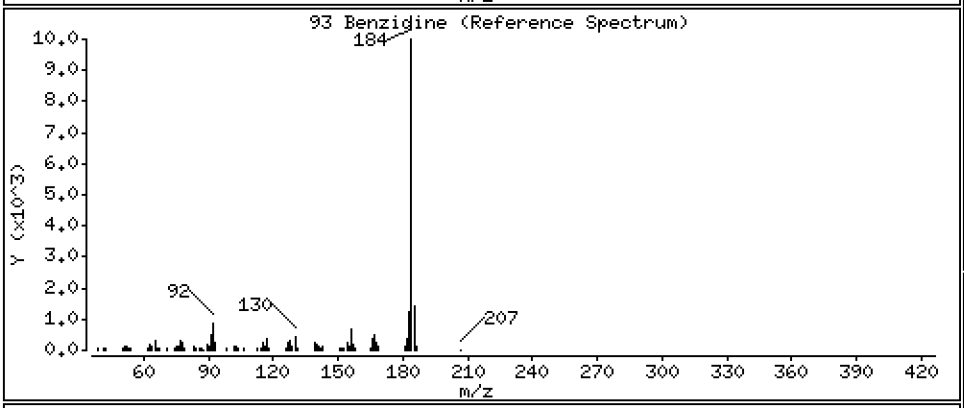
93 Benzidine Concentration: 5.153 ug/mL

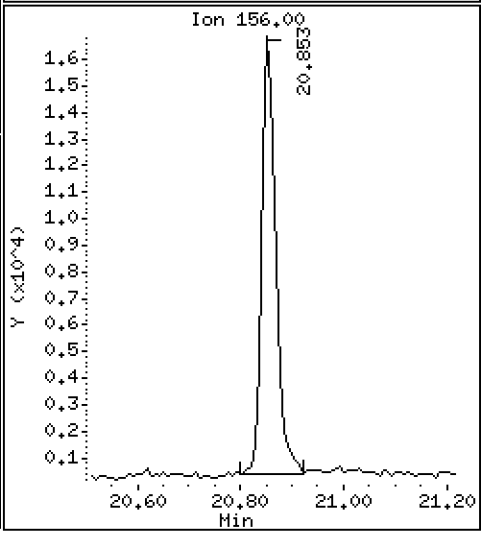


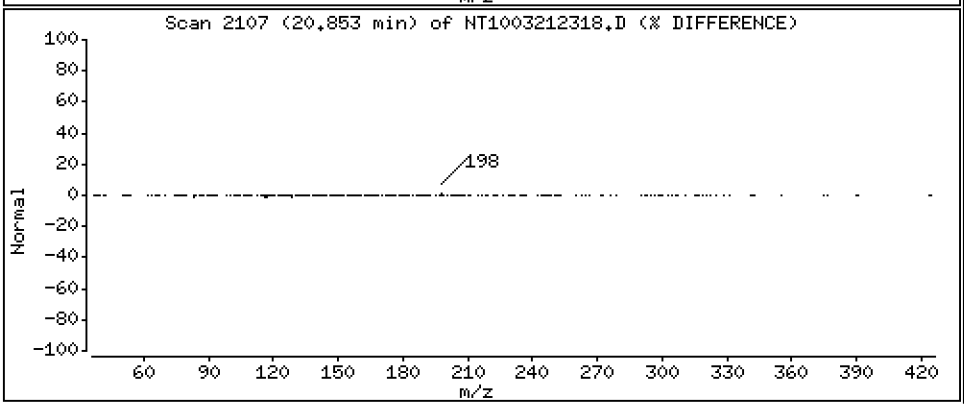












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212318.D

Date : 22-MAR-2023 04:03

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-CCV1

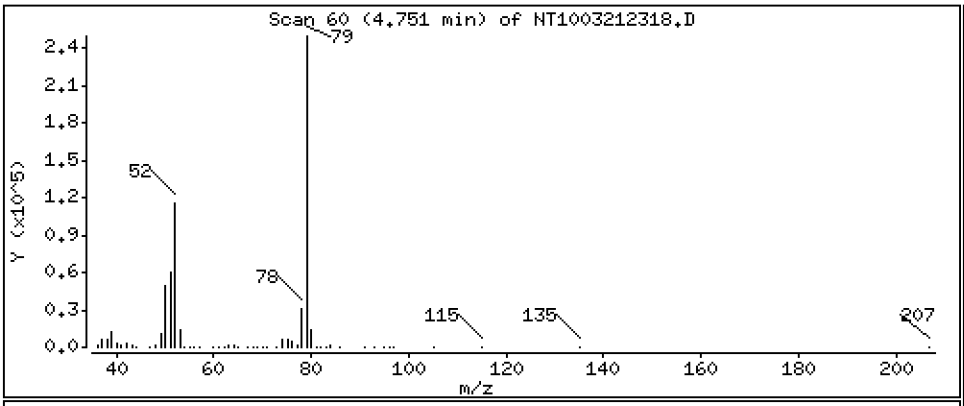
Operator: VTS

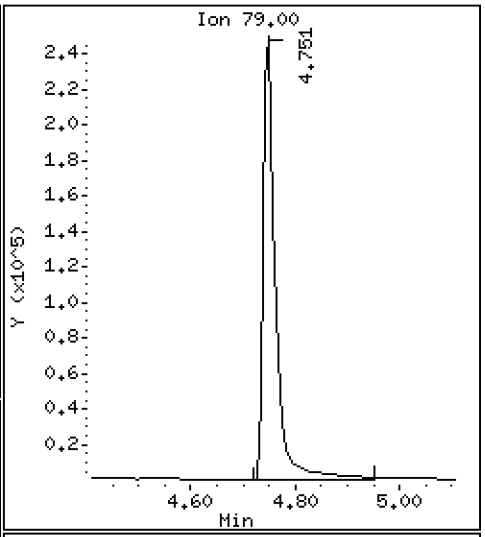
Column phase: ZB-5msi

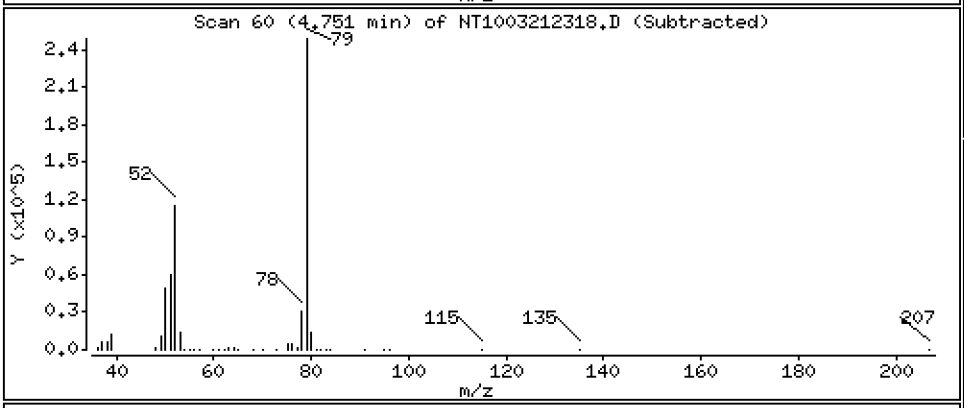
Column diameter: 0.25

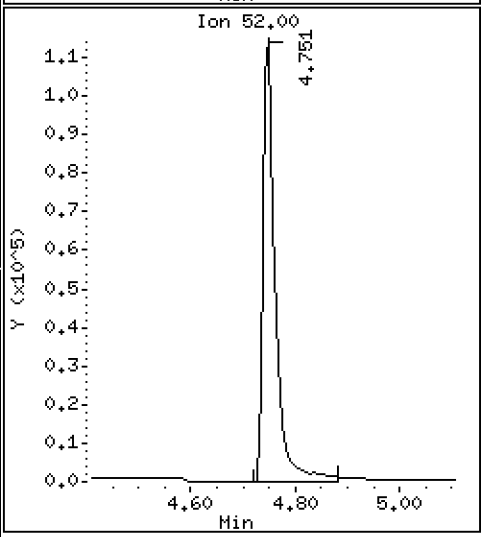
103 Pyridine

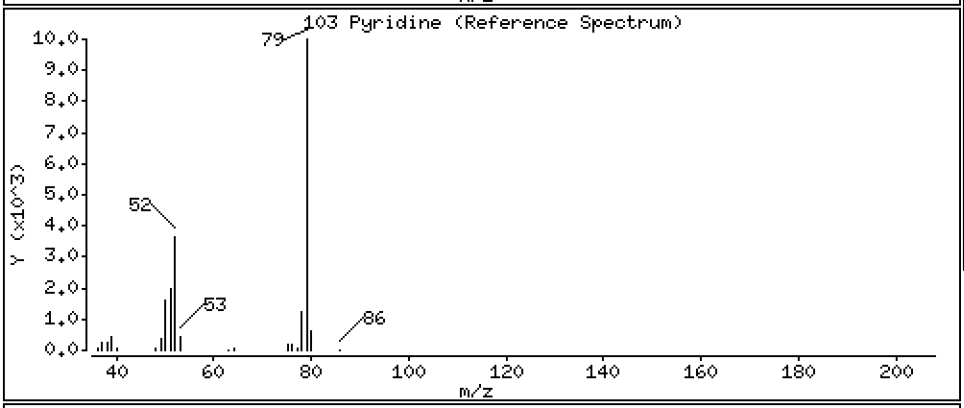
Concentration: 9.262 ug/mL

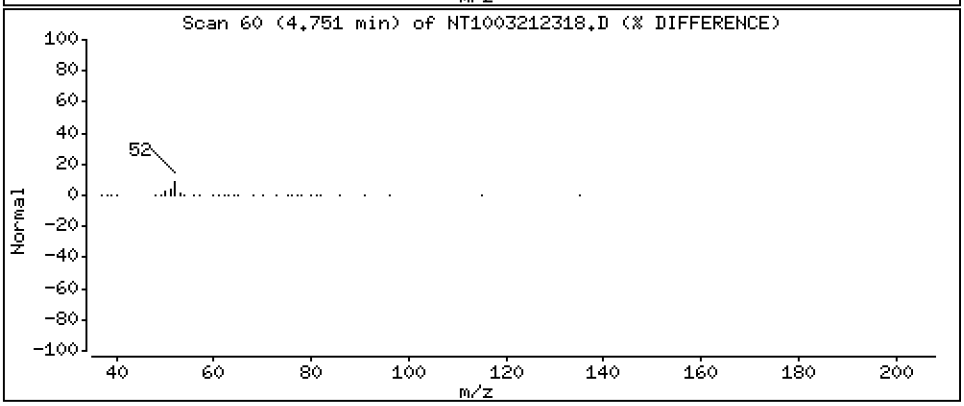












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212318.D

Date : 22-MAR-2023 04:03

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-CCV1

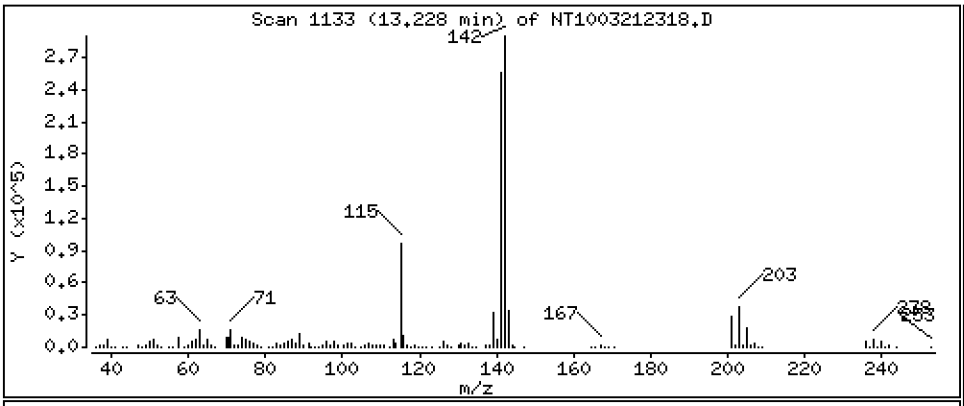
Operator: VTS

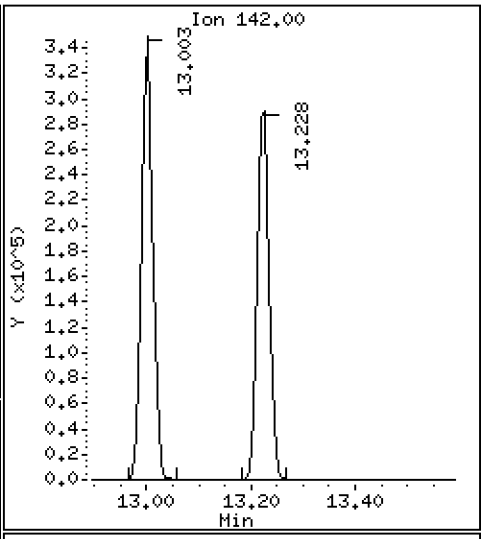
Column phase: ZB-5msi

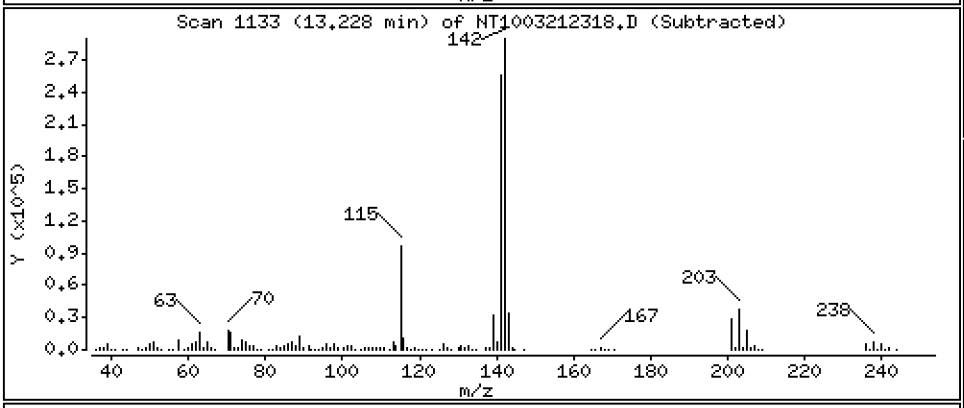
Column diameter: 0.25

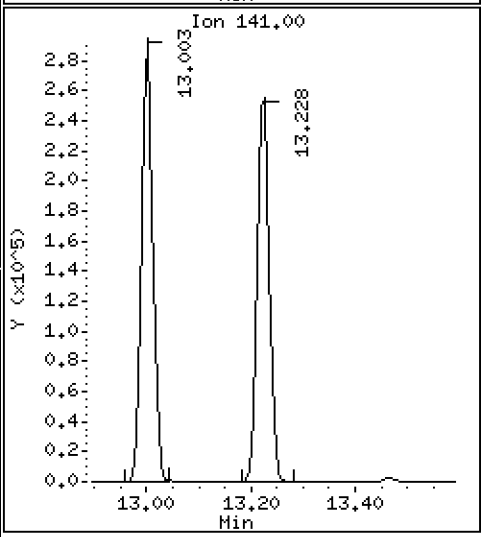
105 1-methylnaphthalene

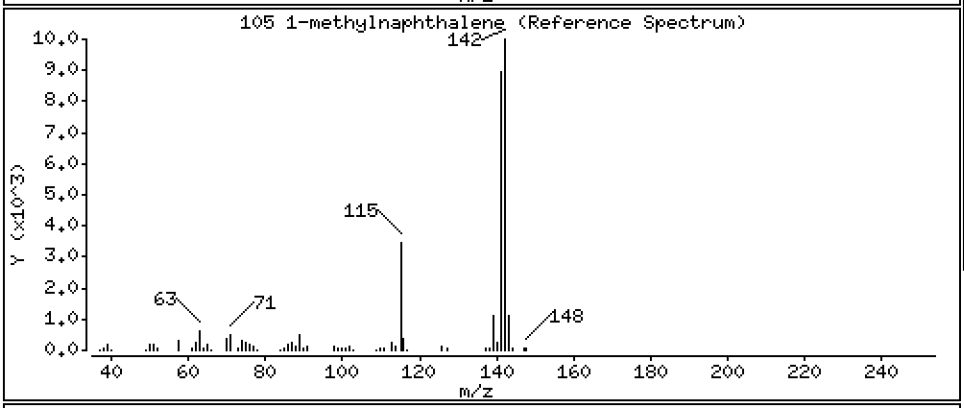
Concentration: 5.036 ug/mL

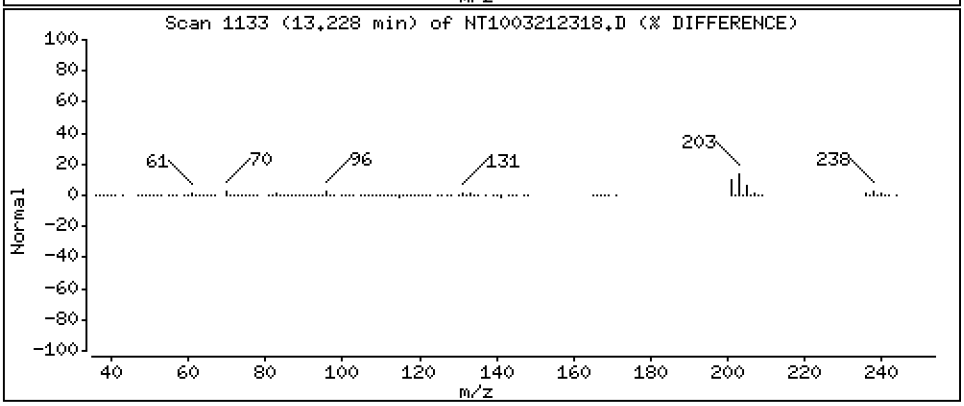












Date : 22-MAR-2023 04:03

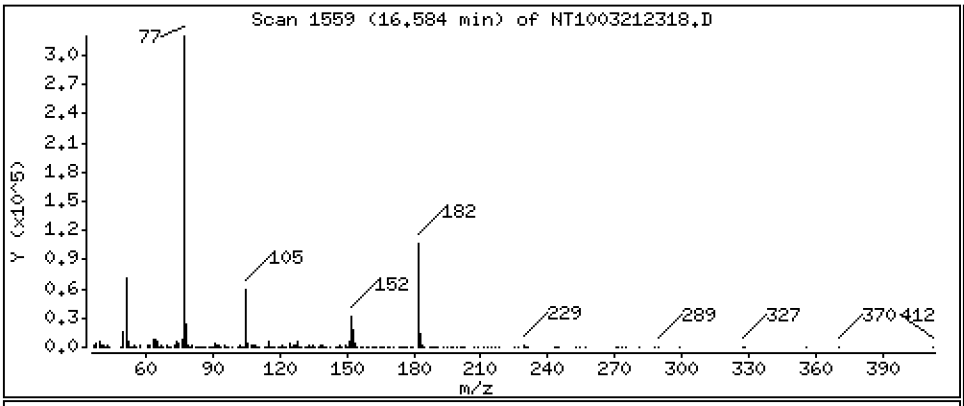
Client ID: Instrument: nt10.i

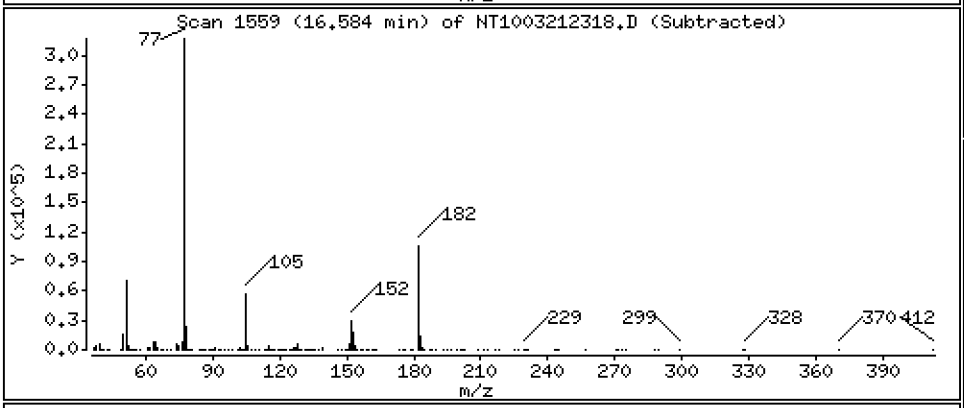
Sample Info: SLC0451-CCV1

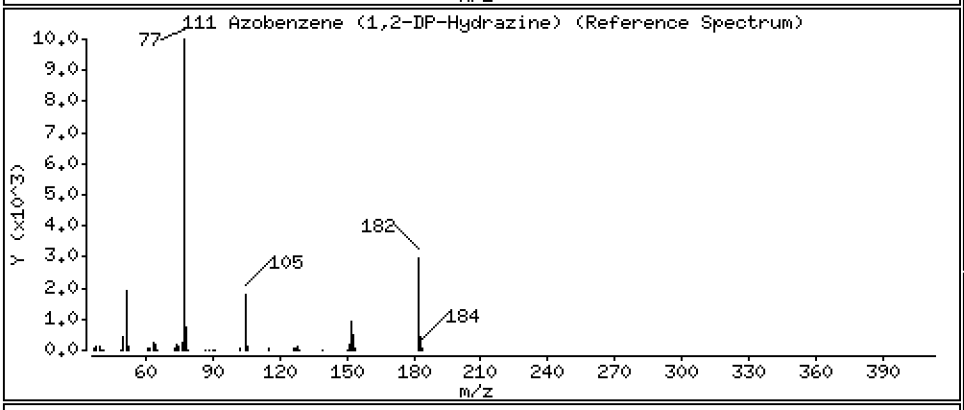
Operator: VTS

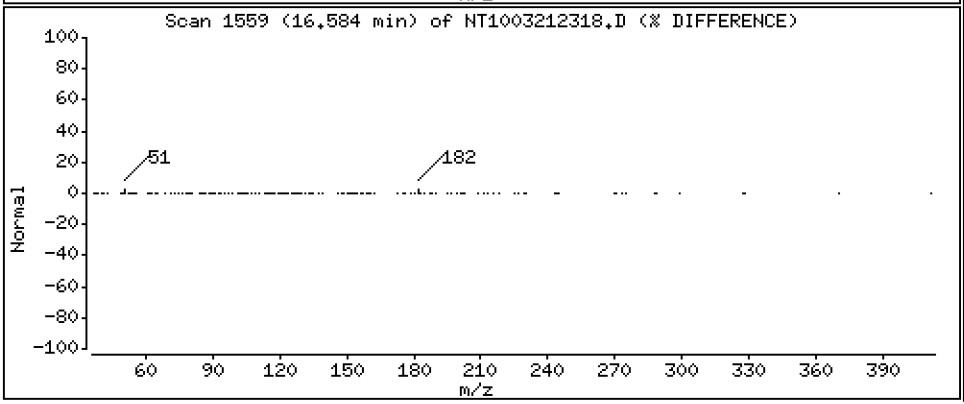
Column phase: ZB-5msi Column diameter: 0.25

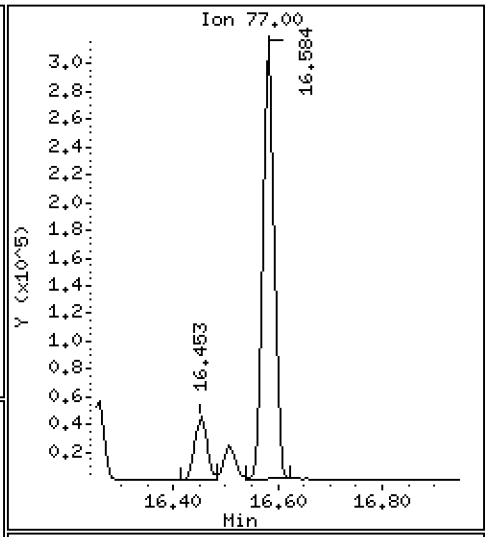
111 Azobenzene (1,2-DP-Hydrazine) Concentration: 4.390 ug/mL

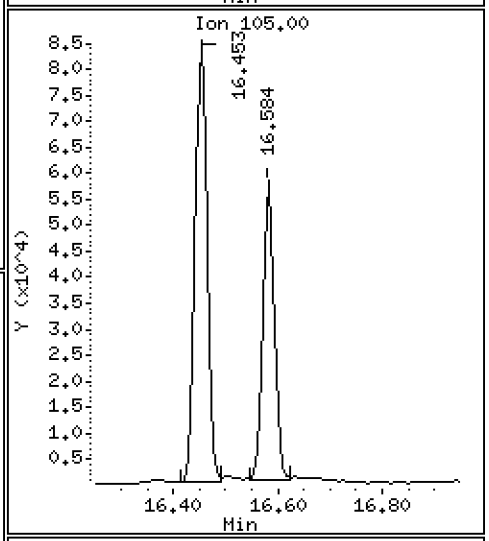


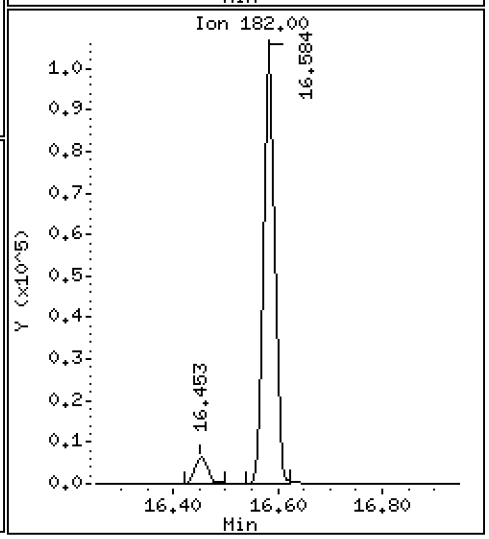












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212318.D

Date : 22-MAR-2023 04:03

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-CCV1

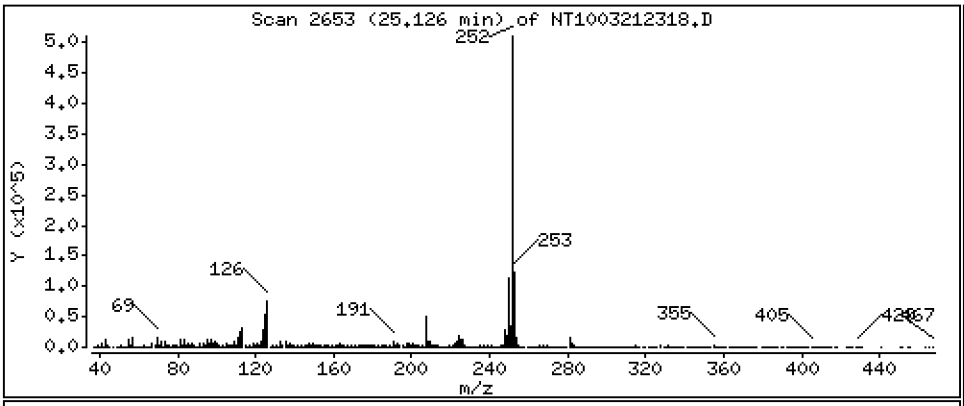
Operator: VTS

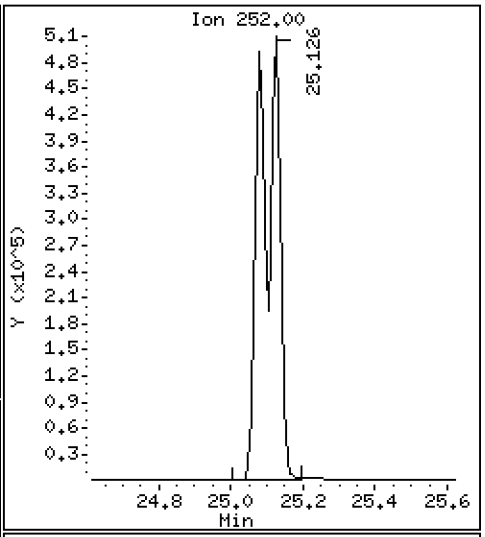
Column phase: ZB-5msi

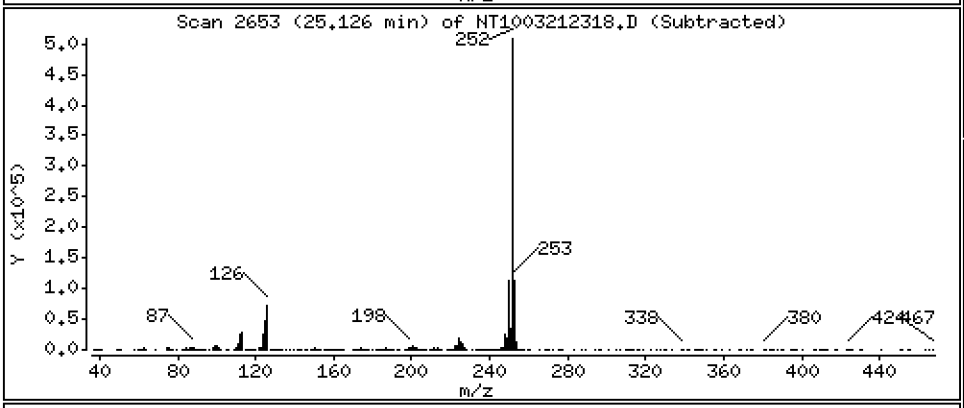
Column diameter: 0.25

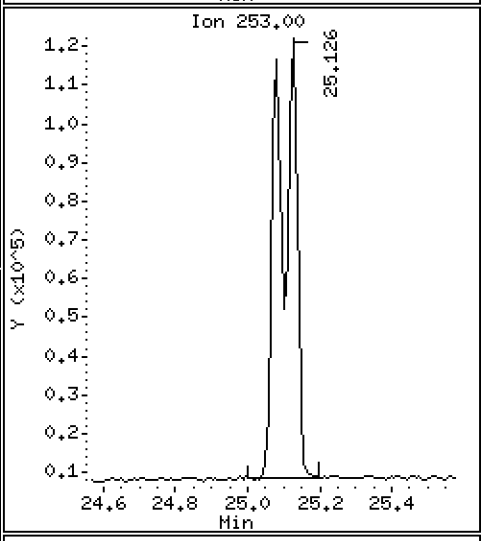
187 Total Benzofluoranthenes

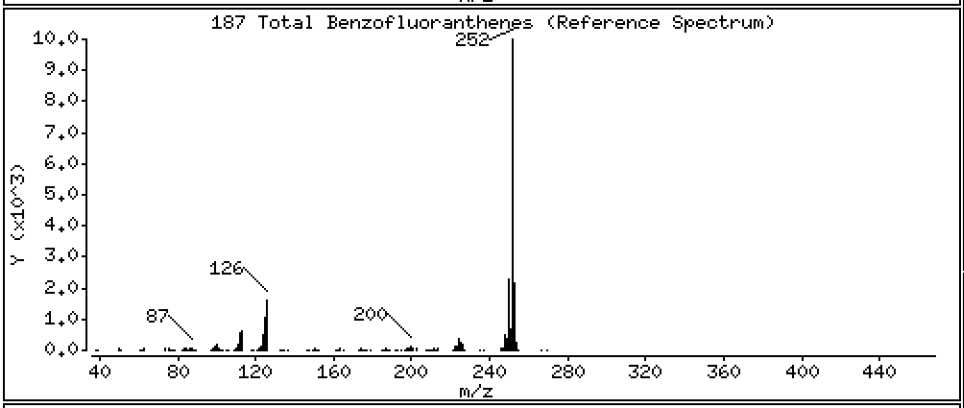
Concentration: 10.02 ug/mL

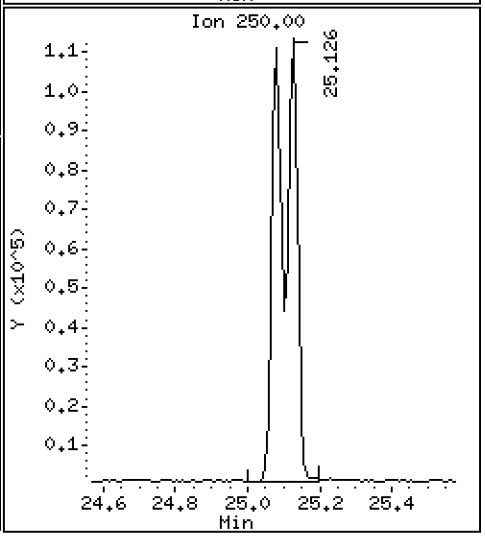


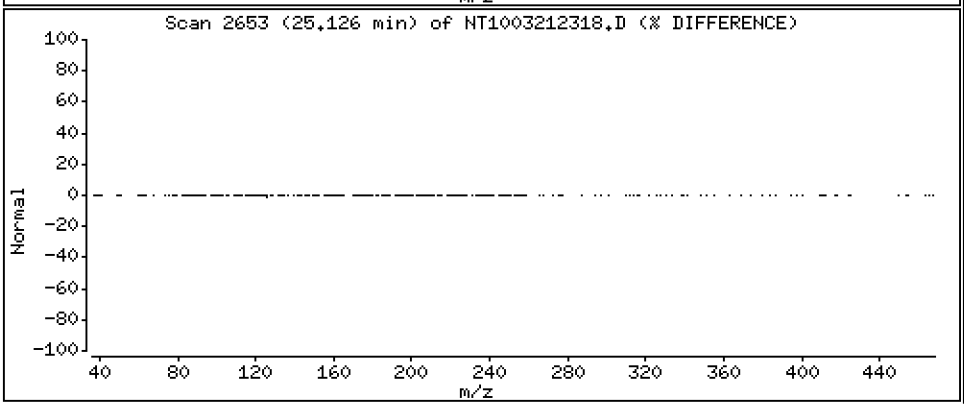












Date : 22-MAR-2023 04:03

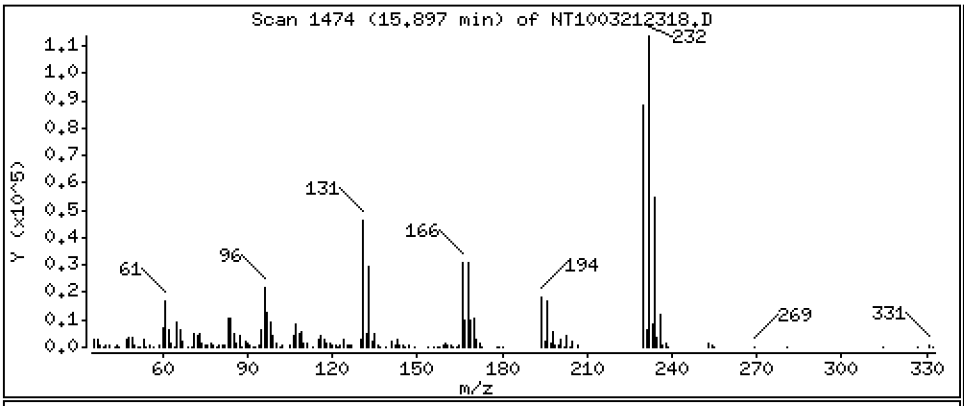
Client ID: Instrument: nt10.i

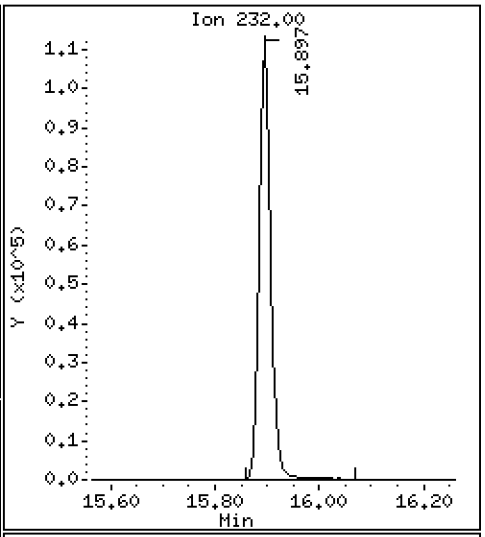
Sample Info: SLC0451-CCV1

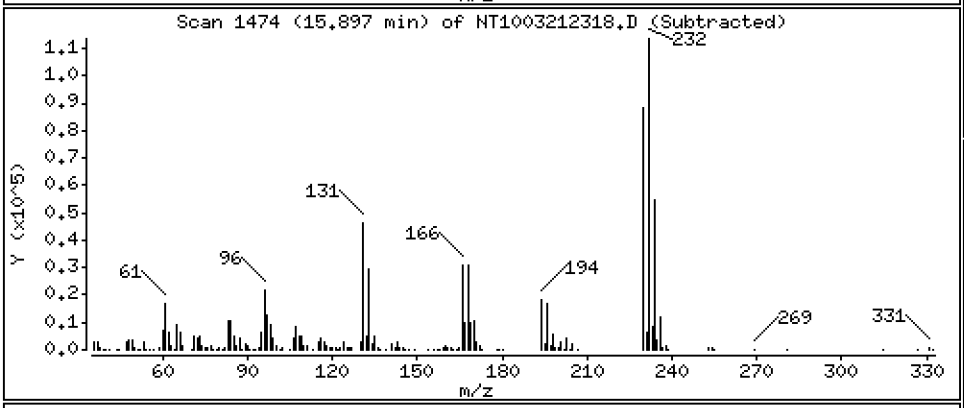
Operator: VTS

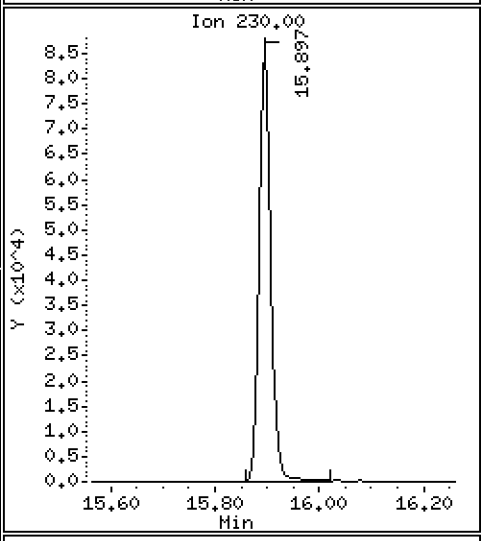
Column phase: ZB-5msi Column diameter: 0.25

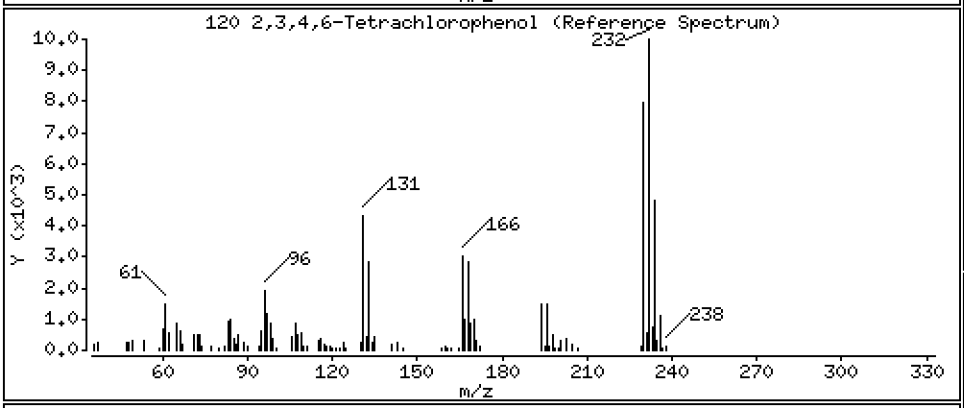
120 2,3,4,6-Tetrachlorophenol Concentration: 6.130 ug/mL

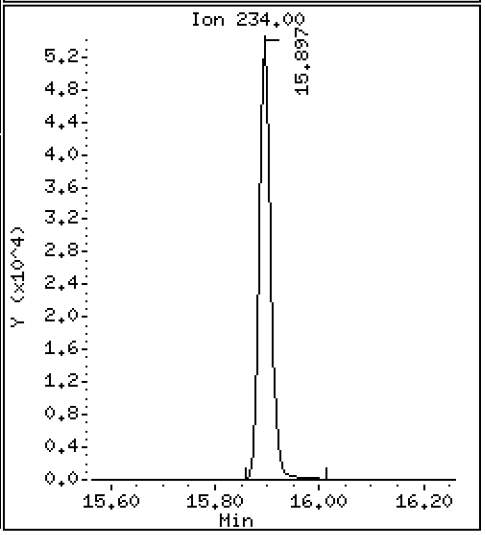


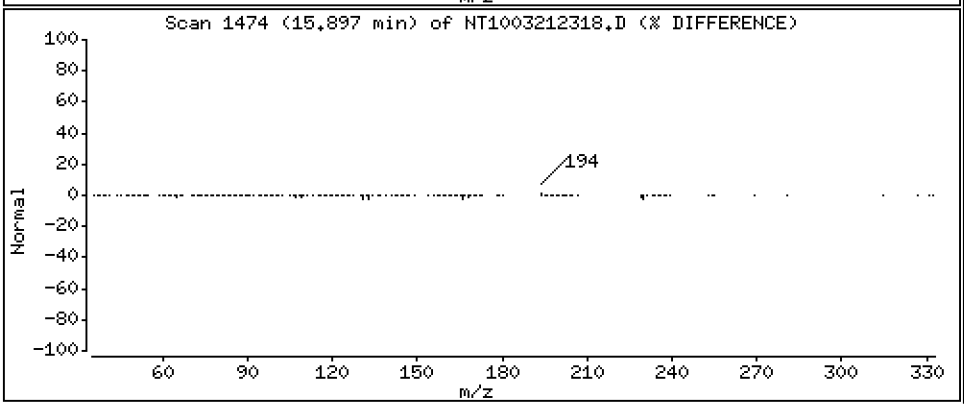












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230321.b\NT1003212318.D
Lab Smp Id: SLC0451-CCV1
Inj Date : 22-MAR-2023 04:03
Operator : VTS Inst ID: nt10.i
Smp Info : SLC0451-CCV1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230321.b\ABN.m
Meth Date : 29-Mar-2023 06:54 van Quant Type: ISTD
Cal Date : 16-MAR-2023 00:22 Cal File: NT10031508.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

							CONCENTRATIONS		
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)	
$	1 2-Fluorophenol	112	6.882	6.889	(0.728)	332628	7.53720	7.537	
$	2 Phenol-d5	99	8.458	8.473	(0.894)	431227	7.44856	7.449	
	3 Phenol	94	8.481	8.497	(0.897)	282829	4.70120	4.701	
$	5 2-Chlorophenol-d4	132	8.736	8.744	(0.924)	378194	7.64996	7.650	
	4 Bis(2-Chloroethyl)ether	93	8.643	8.659	(0.914)	209819	4.70235	4.702	
	6 2-Chlorophenol	128	8.767	8.775	(0.927)	247865	4.81390	4.814	
	7 1,3-Dichlorobenzene	146	9.030	9.045	(0.955)	261237	4.79907	4.799	
*	8 1,4-Dichlorobenzene-d4	152	9.100	9.108	(1.000)	145932	4.00000		(H)
	9 1,4-Dichlorobenzene	146	9.123	9.139	(0.965)	251418	4.78115	4.781	
$	10 1,2-Dichlorobenzene-d4	152	9.457	9.465	(1.000)	172203	4.85029	4.850	
	12 1,2-Dichlorobenzene	146	9.480	9.496	(1.002)	246024	4.75395	4.754	
	11 Benzyl alcohol	108	9.364	9.379	(0.990)	147623	5.22786	5.228	
	14 2,2'-oxybis(1-Chloropropane)	121	9.667	9.682	(1.062)	70814	4.65944	4.659	(M)
	13 2-Methylphenol	108	9.589	9.604	(1.014)	209715	4.78195	4.782	
	17 Hexachloroethane	117	10.070	10.086	(1.065)	80244	3.71930	3.719	
	16 N-Nitroso-di-n-propylamine	70	9.923	9.938	(1.049)	159233	4.59829	4.598	
	15 4-Methylphenol	108	9.861	9.876	(1.043)	227619	4.92591	4.926	
$	18 Nitrobenzene-d5	82	10.187	10.202	(0.880)	251295	4.72823	4.728	
	19 Nitrobenzene	77	10.225	10.241	(0.884)	232326	4.45431	4.454	
	20 Isophorone	82	10.668	10.683	(0.922)	320117	4.79768	4.798	
	21 2-Nitrophenol	139	10.850	10.858	(0.938)	165386	6.47570	6.476	
	22 2,4-Dimethylphenol	107	10.901	10.918	(0.942)	401403	8.37881	8.379	
	23 Bis(2-Chloroethoxy)methane	93	11.096	11.113	(0.959)	210298	4.71841	4.718	
	24 Benzoic acid	105	11.113	11.113	(0.960)	623961	22.2383	22.24	
	25 2,4-Dichlorophenol	162	11.300	11.316	(0.976)	449124	11.7152	11.72	
	26 1,2,4-Trichlorobenzene	180	11.487	11.502	(0.993)	222236	4.93840	4.938	
*	27 Naphthalene-d8	136	11.572	11.587	(1.000)	526548	4.00000		
	28 Naphthalene	128	11.611	11.626	(1.003)	668175	4.79012	4.790	
	29 4-Chloroaniline	127	11.742	11.757	(1.015)	519273	9.54235	9.542	
	30 Hexachlorobutadiene	225	11.974	11.989	(1.035)	134541	5.10236	5.102	
	31 4-Chloro-3-methylphenol	107	12.701	12.716	(1.098)	415471	10.0109	10.01	
	32 2-Methylnaphthalene	142	13.003	13.018	(1.124)	509714	5.06349	5.063	
	33 Hexachlorocyclopentadiene	237	13.467	13.483	(0.888)	29196	1.06551	1.066	

			QUANT SIG					CONCENTRATIONS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
	34	2,4,6-Trichlorophenol	196	13.622	13.637	(0.898)	327088	11.1777	11.18
	35	2,4,5-Trichlorophenol	196	13.699	13.707	(0.903)	346193	10.6472	10.65
$	36	2-Fluorobiphenyl	172	13.777	13.800	(0.908)	575466	4.91358	4.914
	37	2-Chloronaphthalene	162	13.993	14.009	(0.922)	464925	4.90266	4.903
	38	2-Nitroaniline	65	14.249	14.272	(0.939)	247420	9.28819	9.288
	39	Dimethylphthalate	163	14.675	14.698	(0.967)	486379	5.05692	5.057
	40	Acenaphthylene	152	14.853	14.876	(0.979)	724393	4.90218	4.902
	41	2,6-Dinitrotoluene	165	14.814	14.837	(0.977)	235412	11.3302	11.33
*	42	Acenaphthene-d10	164	15.170	15.185	(1.000)	296071	4.00000	
	43	3-Nitroaniline	138	15.100	15.116	(0.995)	239646	10.2188	10.22
	44	Acenaphthene	153	15.232	15.247	(1.004)	443137	4.85419	4.854
	45	2,4-Dinitrophenol	184	15.309	15.324	(1.009)	286691	21.8622	21.86
	46	Dibenzofuran	168	15.556	15.572	(1.025)	663021	4.92513	4.925
	47	4-Nitrophenol	109	15.425	15.432	(1.017)	116898	7.96460	7.965
	48	2,4-Dinitrotoluene	165	15.618	15.641	(1.030)	322811	10.4471	10.45
	50	Diethylphthalate	149	16.128	16.144	(1.063)	461795	4.89354	4.894
	49	Fluorene	166	16.268	16.283	(1.072)	532336	5.02632	5.026
	51	4-Chlorophenyl-phenylether	204	16.260	16.275	(1.072)	252116	5.00595	5.006
	52	4-Nitroaniline	138	16.368	16.375	(1.079)	233181	11.0334	11.03
	53	4,6-Dinitro-2-methylphenol	198	16.453	16.468	(0.904)	350056	20.4865	20.49
	54	N-Nitrosodiphenylamine	169	16.507	16.522	(0.907)	351211	4.75045	4.750
$	55	2,4,6-Tribromophenol	330	16.800	16.815	(1.107)	121819	8.84763	8.848
	56	4-Bromophenyl-phenylether	248	17.255	17.270	(0.949)	163537	5.28751	5.288
	57	Hexachlorobenzene	284	17.571	17.587	(0.966)	166886	5.14648	5.146
	58	Pentachlorophenol	266	17.928	17.943	(0.986)	208458	10.6455	10.65
*	59	Phenanthrene-d10	188	18.191	18.206	(1.000)	552984	4.00000	
	60	Phenanthrene	178	18.237	18.252	(1.003)	727906	4.82739	4.827
	61	Anthracene	178	18.330	18.338	(1.008)	751855	5.19799	5.198
	62	Carbazole	167	18.663	18.670	(1.026)	656890	5.06805	5.068
	63	Di-n-butylphthalate	149	19.460	19.475	(1.070)	898067	5.18166	5.182
	64	Fluoranthene	202	20.620	20.620	(0.888)	867559	4.25595	4.256
	65	Pyrene	202	21.038	21.046	(0.906)	899466	4.30140	4.301
$	66	Terphenyl-d14	244	21.332	21.332	(0.918)	719748	4.58329	4.583
	67	Butylbenzylphthalate	149	22.253	22.261	(0.958)	372259	4.91545	4.915
	68	Benzo(a)anthracene	228	23.206	23.198	(0.999)	874519	4.88380	4.884
*	69	Chrysene-d12	240	23.229	23.229	(1.000)	507311	4.00000	
	70	3,3'-Dichlorobenzidine	252	23.167	23.159	(0.997)	809553	14.1143	14.11
	71	Chrysene	228	23.275	23.275	(1.002)	824133	4.71086	4.711
	72	bis(2-Ethylhexyl)phthalate	149	23.283	23.283	(0.959)	555609	4.54603	4.546
*	134	Di-n-octylphthalate-d4	153	24.274	24.266	(1.000)	833237	4.00000	
	73	Di-n-octylphthalate	149	24.282	24.282	(1.000)	994240	4.55964	4.560
	74	Benzo(b)fluoranthene	252	25.079	25.071	(0.970)	961457	4.97161	4.972
	75	Benzo(k)fluoranthene	252	25.126	25.118	(0.972)	995437	5.06916	5.069
	76	Benzo(a)pyrene	252	25.730	25.722	(0.996)	888438	5.13842	5.138
*	77	Perylene-d12	264	25.846	25.830	(1.000)	596603	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	28.490	28.466	(1.102)	1002133	4.55574	4.556
	79	Dibenzo(a,h)anthracene	278	28.505	28.482	(1.103)	854645	4.67977	4.680
	80	Benzo(g,h,i)perylene	276	29.266	29.235	(1.132)	819682	4.30579	4.306
	90	N-Nitrosodimethylamine	74	4.719	4.727	(0.499)	263436	9.35664	9.357
	91	Aniline	93	8.558	8.566	(0.905)	566088	9.18319	9.183
	93	Benzidine	184	20.852	20.860	(0.898)	431510	5.15344	5.153
	103	Pyridine	79	4.750	4.758	(0.502)	400485	9.26186	9.262
	105	1-methylnaphthalene	142	13.227	13.243	(1.143)	464509	5.03642	5.036
	111	Azobenzene (1,2-DP-Hydrazine)	77	16.584	16.599	(1.093)	462809	4.39034	4.390

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.126	25.118	(0.972)	1871117	10.0209	10.02
120 2,3,4,6-Tetrachlorophenol	232	15.896	15.912	(1.048)	190210	6.13020	6.130

QC Flag Legend

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

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1003212318.D
Lab Smp Id: SLC0451-CCV1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230321.b\ABN.m
Misc Info:

Calibration Date: 21-MAR-2023
Calibration Time: 17:46
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	138414	69207	276828	145932	5.43
27 Naphthalene-d8	511348	255674	1022696	526548	2.97
42 Acenaphthene-d10	293241	146621	586482	296071	0.97
59 Phenanthrene-d10	535484	267742	1070968	552984	3.27
69 Chrysene-d12	464733	232367	929466	507311	9.16
134 Di-n-octylphthala	716354	358177	1432708	833237	16.32
77 Perylene-d12	509704	254852	1019408	596603	17.05

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.11	8.61	9.61	9.10	-0.08
27 Naphthalene-d8	11.59	11.09	12.09	11.57	-0.13
42 Acenaphthene-d10	15.19	14.69	15.69	15.17	-0.10
59 Phenanthrene-d10	18.21	17.71	18.71	18.19	-0.08
69 Chrysene-d12	23.23	22.73	23.73	23.23	0.00
134 Di-n-octylphthala	24.27	23.77	24.77	24.27	0.03
77 Perylene-d12	25.83	25.33	26.33	25.85	0.06

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

REVIEW SUMMARY FOR FILE - NT1003212318.D

Lab ID: SLC0451-CCV1
nt10.i, 20230321.b\ABN.m,   22-MAR-2023 04:03

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
1.062	1.023	0.0393	2,2'-oxybis(1-Chloropropane)

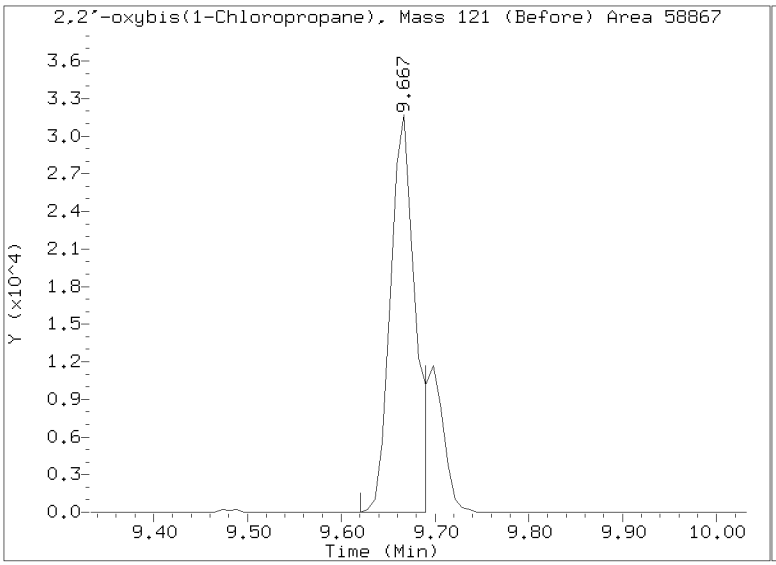
RRT check based on Ccal File: NT1003212302.D

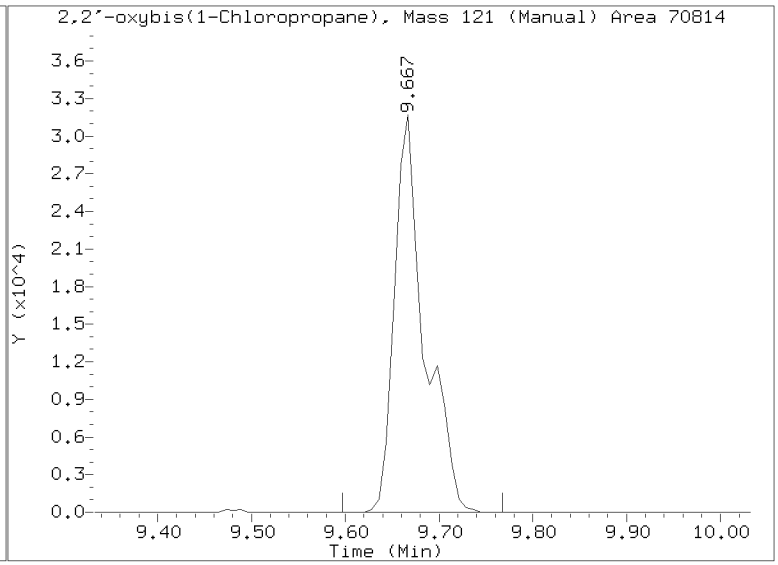
On Column LOD for nt10.i, 20230321.b\ABN.m, ICAL.sub = 0.0000

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230321.b/NT1003212318.D
Injection Date: 22-MAR-2023 04:03
Lab ID:SLC0451-CCV1 Client ID:
Report Date: 03/29/2023 08:04





Analytical Resources, LLC
Analytical Chemists and Consultants

LOW-CONCENTRATION CONTINUING CALIBRATION CHECK

EPA 8270E

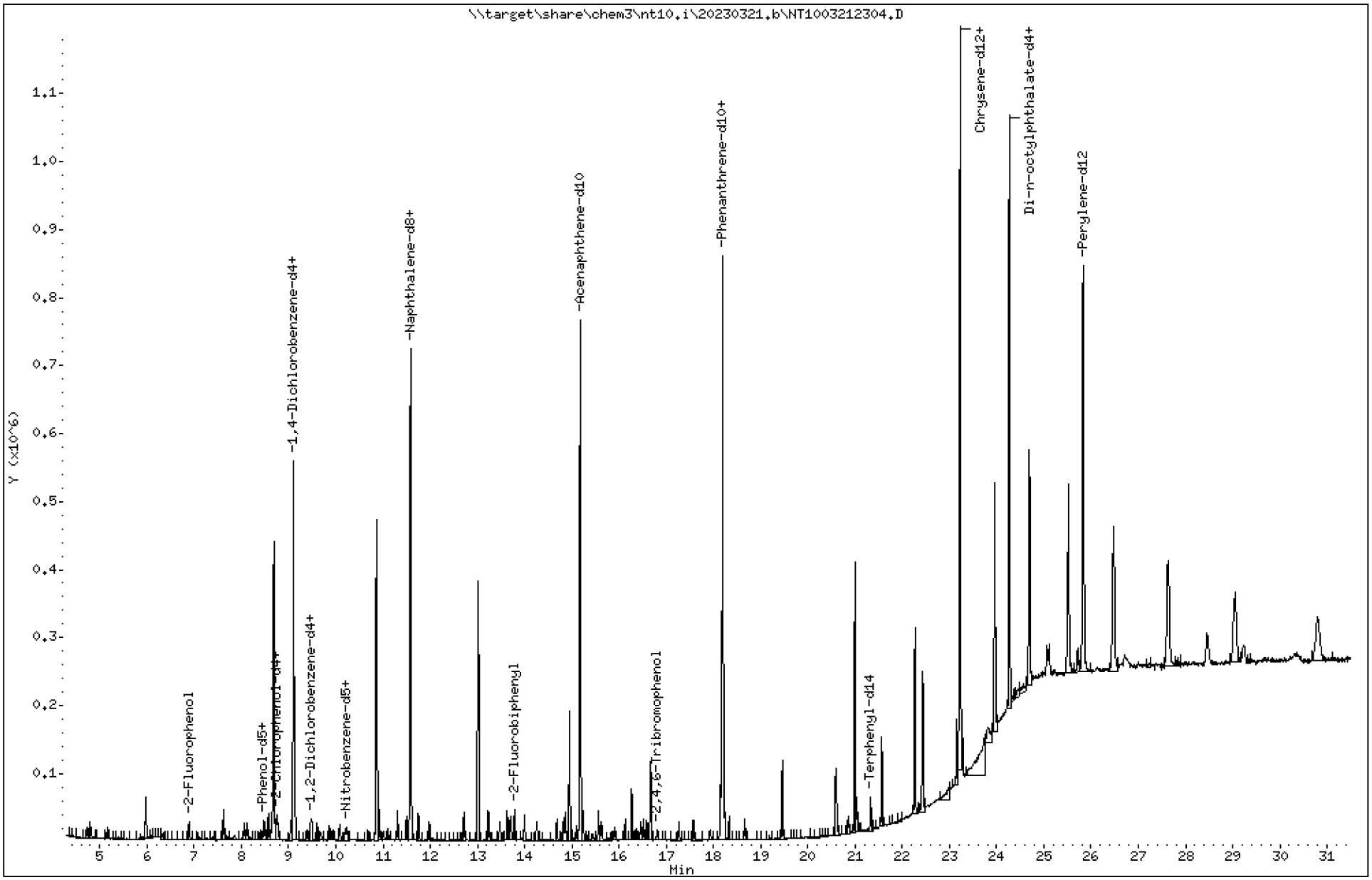
Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	NT10	Calibration:	GC00046
Lab File ID:	NT1003212304.D	Calibration Date:	03/15/2023
Sequence:	SLC0451	Injection Date:	03/21/23
Lab Sample ID:	SLC0451-LCV1	Injection Time:	19:04
Sequence Name:	ABN 0.2		

		CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Phenol	A	0.20000	0.2	1.6490140	1.5629450		-5.2	+/-50
4-Methylphenol	A	0.20000	0.2	1.2665770	1.0485310		-17.2	+/-50
Naphthalene	A	0.20000	0.2	1.0596590	1.1152500		5.2	+/-50
2-Methylnaphthalene	A	0.20000	0.2	0.7647129	0.8104392		6.0	+/-50
Acenaphthylene	A	0.20000	0.2	1.9964080	1.9620530		-1.7	+/-50
Dimethylphthalate	A	0.20000	0.2	1.2994310	1.3161260		1.3	+/-50
Acenaphthene	A	0.20000	0.2	1.2333460	1.2693730		2.9	+/-50
Dibenzofuran	A	0.20000	0.2	1.8187540	1.8444070		1.4	+/-50
Fluorene	A	0.20000	0.2	1.4308680	1.4633500		2.3	+/-50
Phenanthrene	A	0.20000	0.2	1.0907130	1.1276390		3.4	+/-50
Anthracene	A	0.20000	0.2	1.0462760	0.9390544		-10.3	+/-50
Fluoranthene	A	0.20000	0.2	1.6072690	1.3755610		-14.4	+/-50
Pyrene	A	0.20000	0.2	1.6487720	1.5070010		-8.6	+/-50
Butylbenzylphthalate	A	0.20000	0.2	0.5292894	0.5136968		-11.3	+/-50
Benzo(a)anthracene	A	0.20000	0.2	1.4118770	1.3829180		-2.1	+/-50
Chrysene	A	0.20000	0.2	1.3793780	1.3847570		0.4	+/-50
bis(2-Ethylhexyl)phthalate	A	0.20000	0.1	0.5248968	0.4127494		-29.4	+/-50
Benzofluoranthenes, Total	A	0.40000	0.4	1.2519020	1.2789680		2.2	+/-50
Benzo(a)pyrene	A	0.20000	0.2	1.1592370	1.1018470		-5.0	+/-50
Indeno(1,2,3-cd)pyrene	A	0.20000	0.2	1.4748270	1.4397930		-2.4	+/-50
Dibenzo(a,h)anthracene	A	0.20000	0.2	1.2244340	1.2490970		2.0	+/-50
Benzo(g,h,i)perylene	A	0.20000	0.2	1.2763410	1.3016950		2.0	+/-50
2-Fluorophenol	A	0.30000	0.281	1.2096460	1.1328890		-6.3	+/-50
Phenol-d5	A	0.30000	0.263	1.5868760	1.3899060		-12.4	+/-50
2-Chlorophenol-d4	A	0.30000	0.281	1.3550800	1.2672870		-6.5	+/-50
1,2-Dichlorobenzene-d4	A	0.20000	0.213	0.9731556	1.0372180		6.6	+/-50
Nitrobenzene-d5	A	0.20000	0.174	0.4037447	0.3507089		-13.1	+/-50
2-Fluorobiphenyl	A	0.20000	0.208	1.5822890	1.6467830		4.1	+/-50
2,4,6-Tribromophenol	A	0.30000	0.227	0.1585901	0.1426257		-24.2	+/-50
p-Terphenyl-d14	A	0.20000	0.197	1.2381950	1.2207680		-1.4	+/-50

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212304.D
Date : 21-MAR-2023 19:04
Client ID:
Sample Info: SLC0451-LCV1

Instrument: nt10.i
Operator: VTS
Column phase: ZB-5msi
Column diameter: 0.25



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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

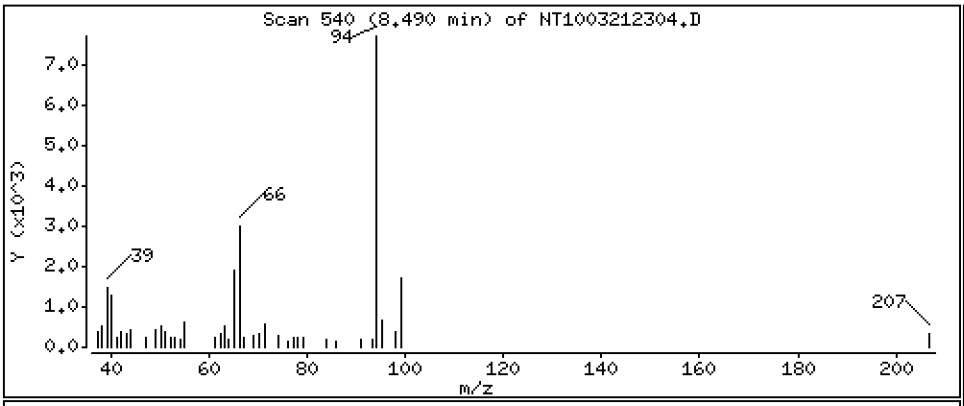
Operator: VTS

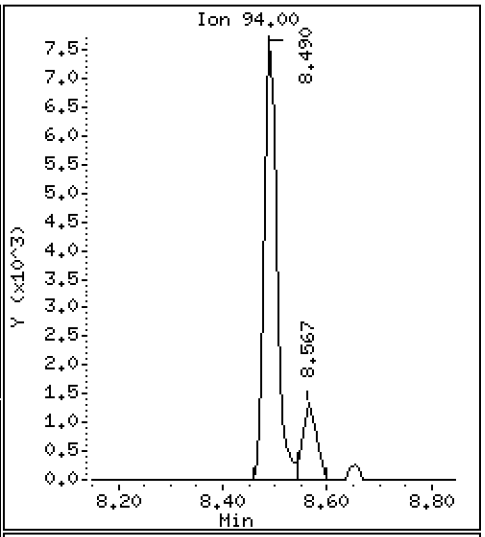
Column phase: ZB-5msi

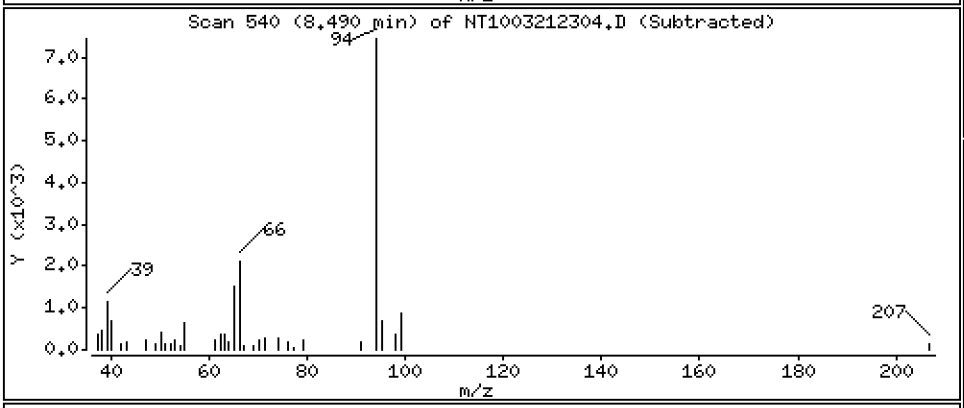
Column diameter: 0.25

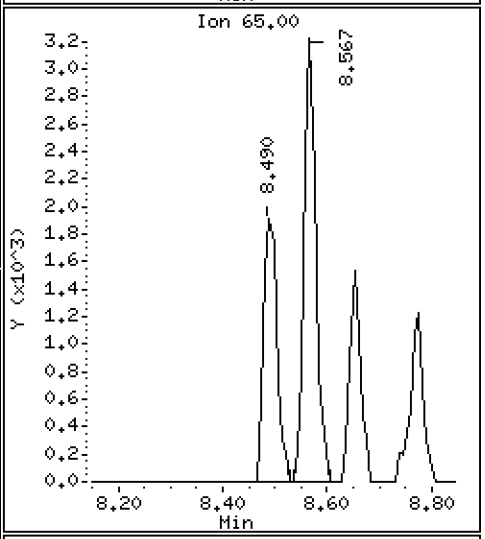
3 Phenol

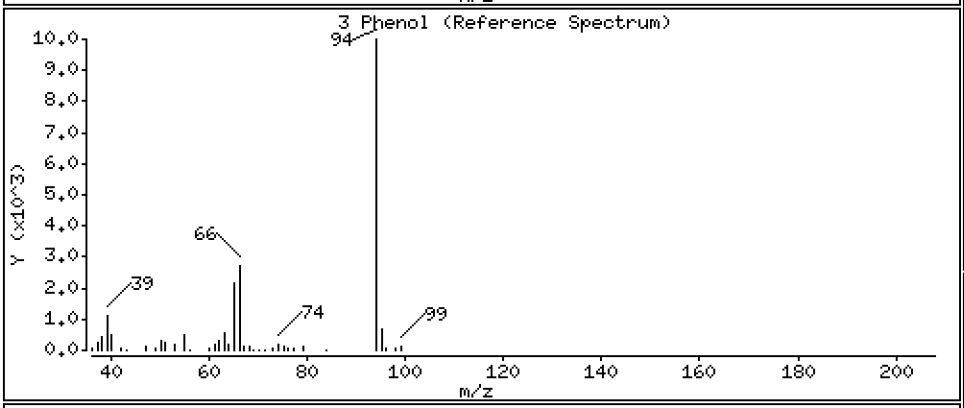
Concentration: 0.1896 ug/mL

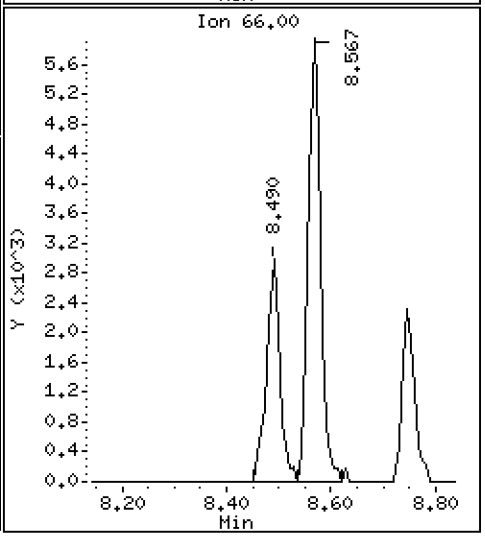


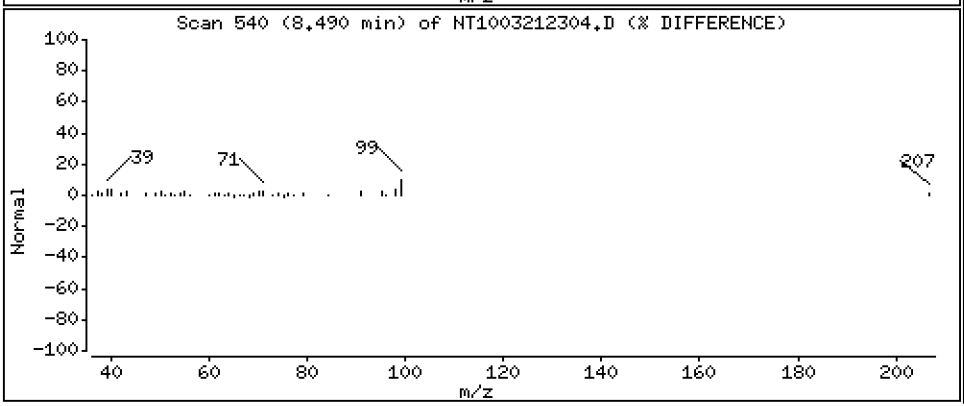












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

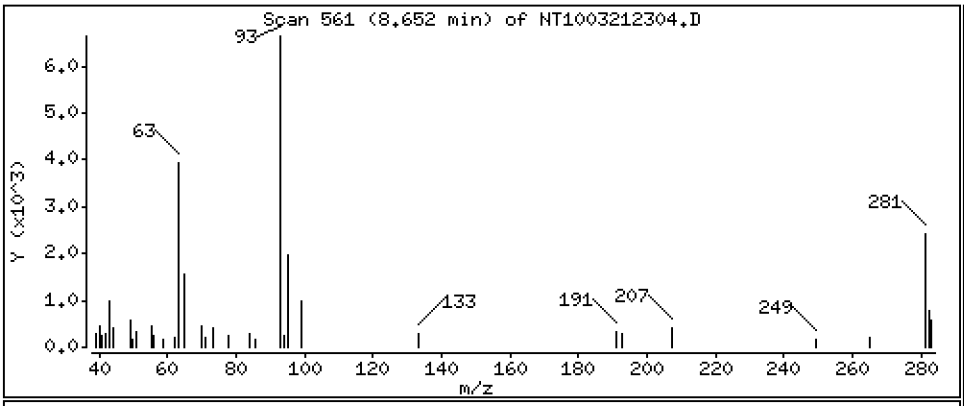
Operator: VTS

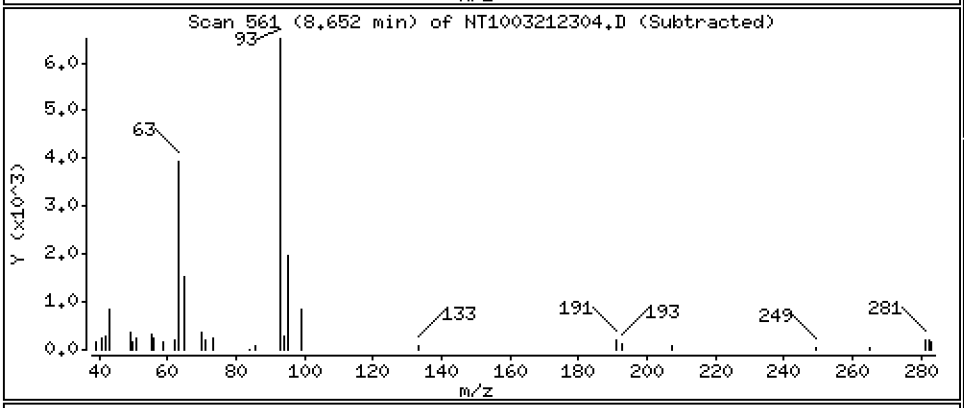
Column phase: ZB-5msi

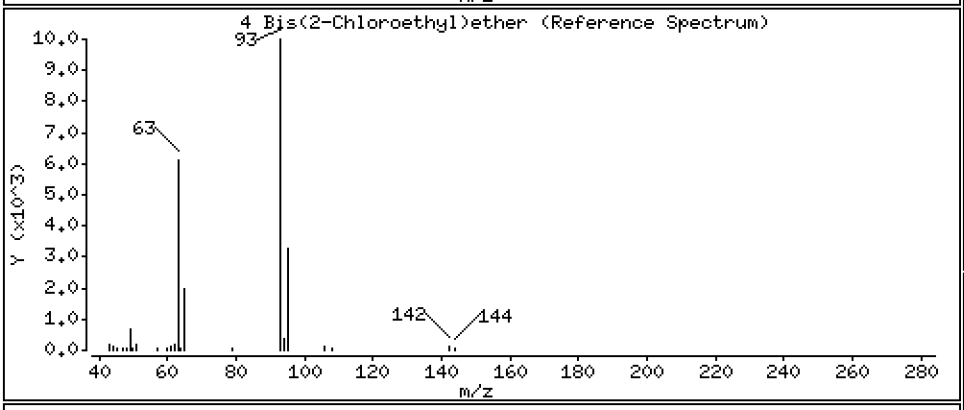
Column diameter: 0.25

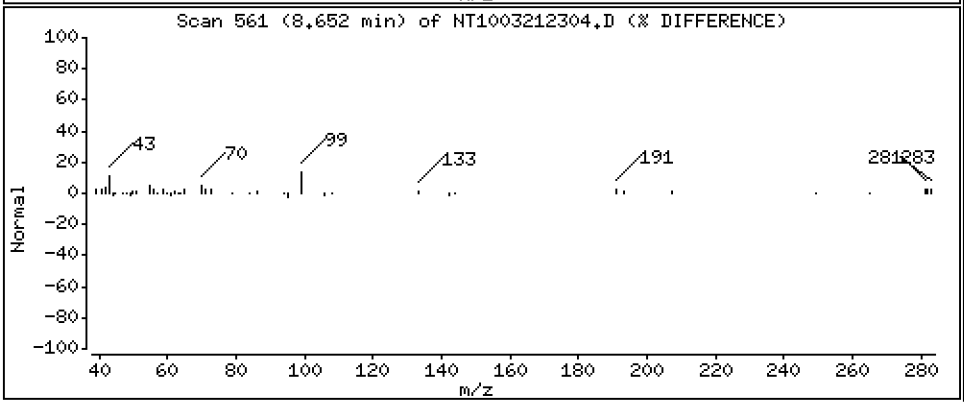
4 Bis(2-Chloroethyl)ether

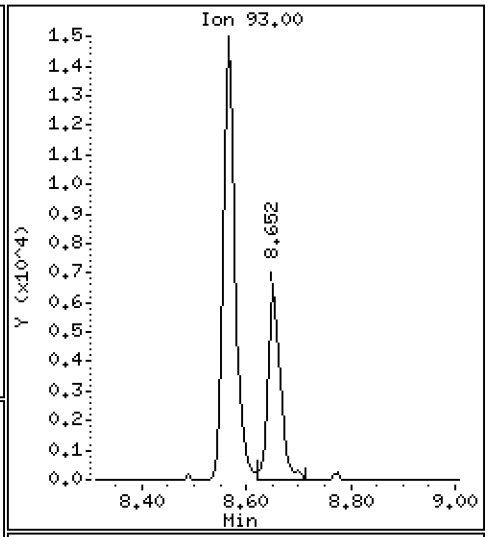
Concentration: 0.2161 ug/mL

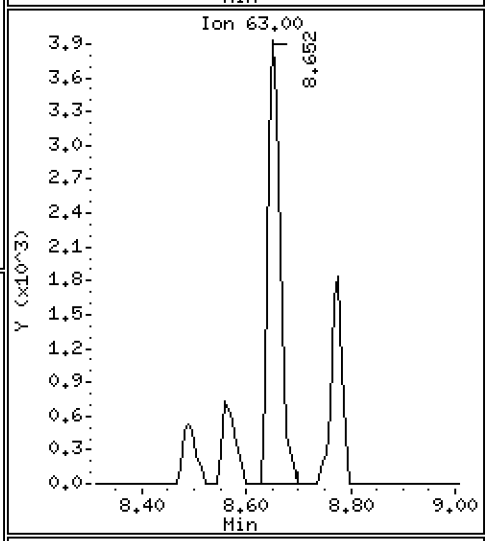


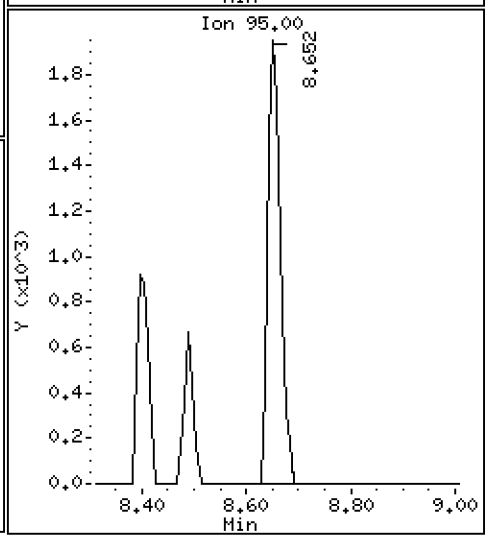












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212304.D

Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

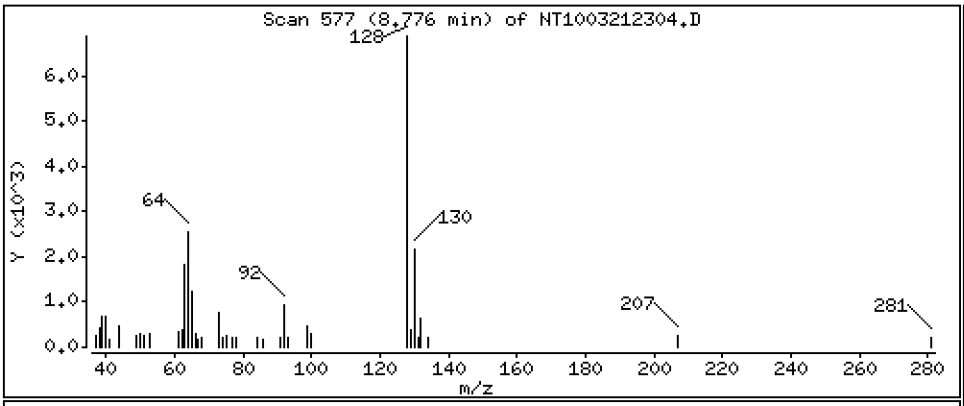
Operator: VTS

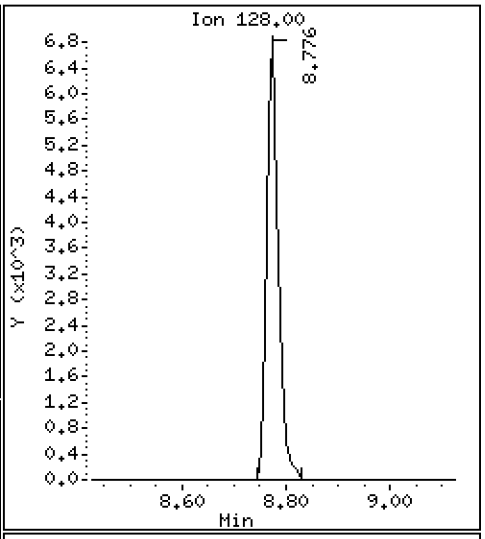
Column phase: ZB-5msi

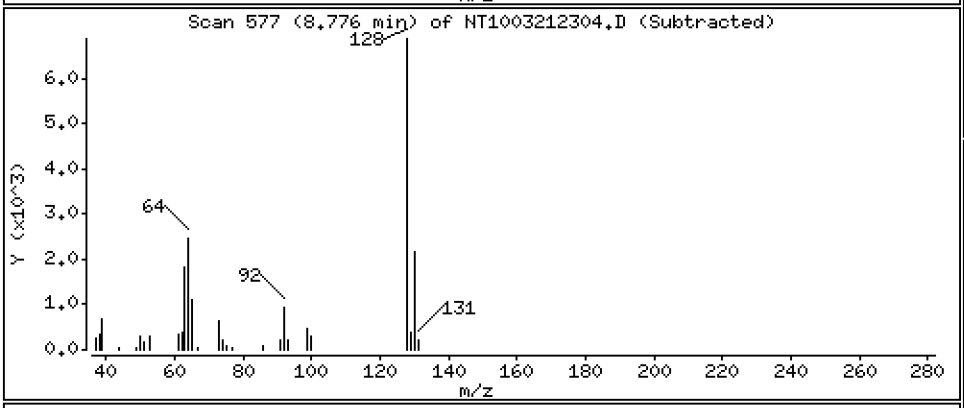
Column diameter: 0.25

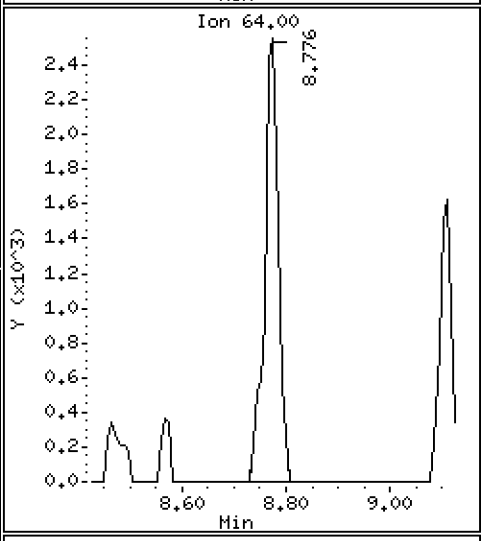
6 2-Chlorophenol

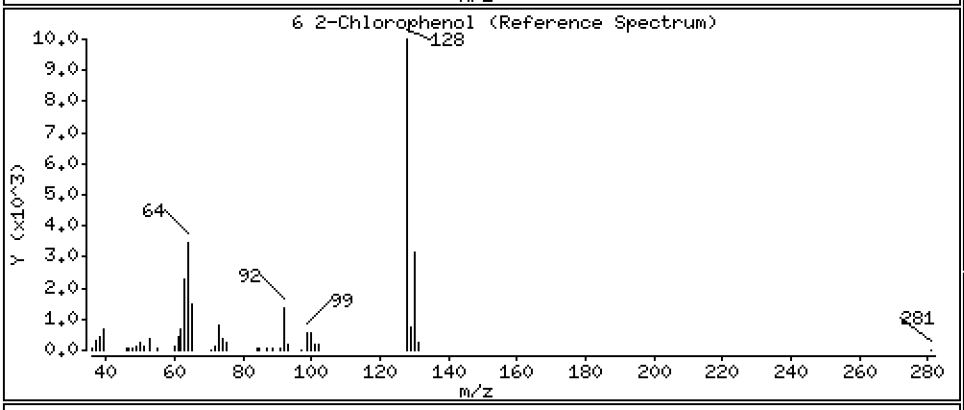
Concentration: 0.1878 ug/mL

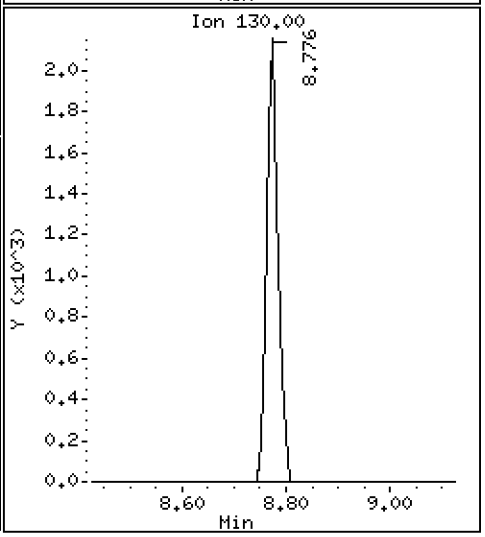


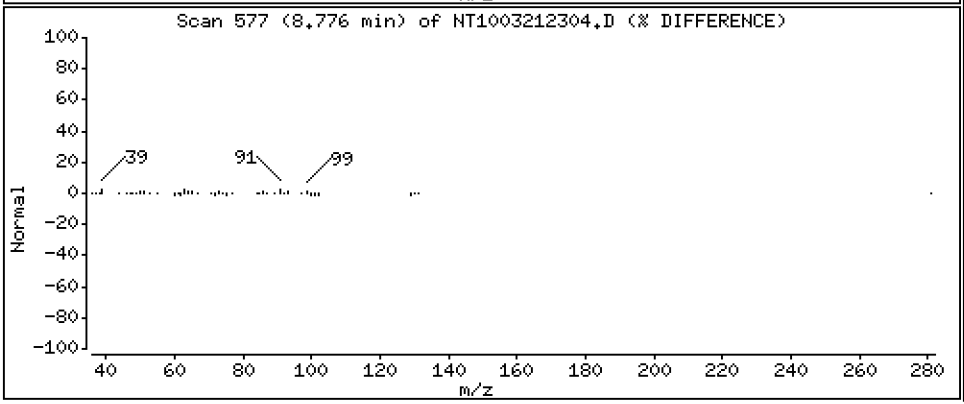












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

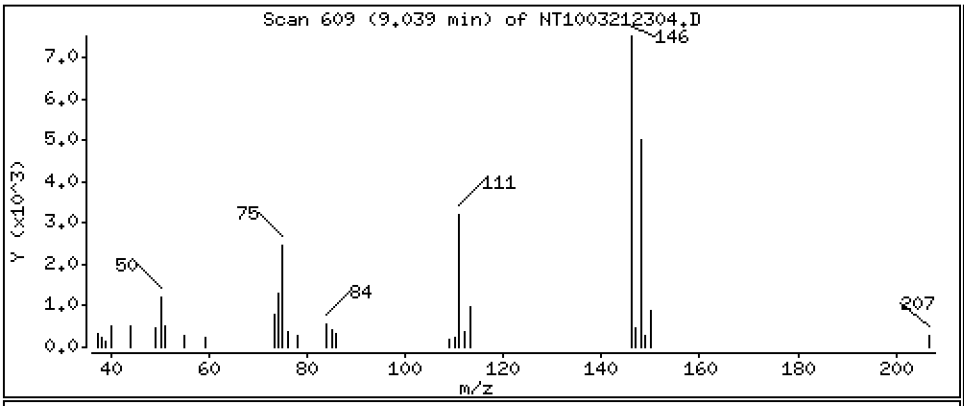
Operator: VTS

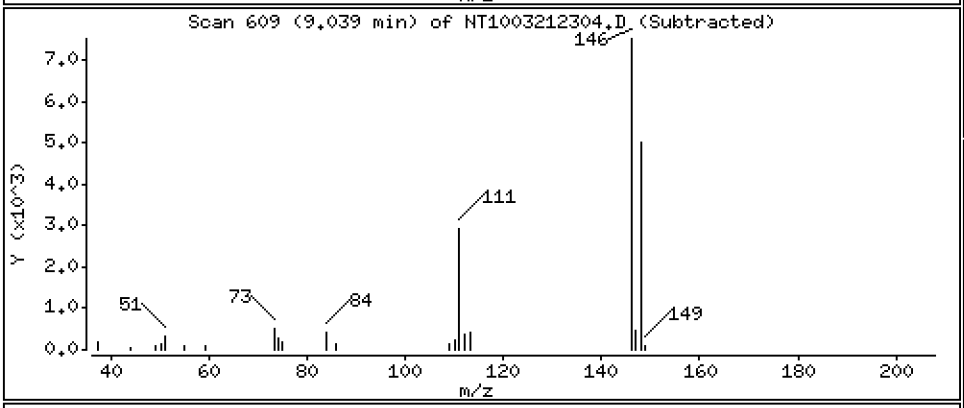
Column phase: ZB-5msi

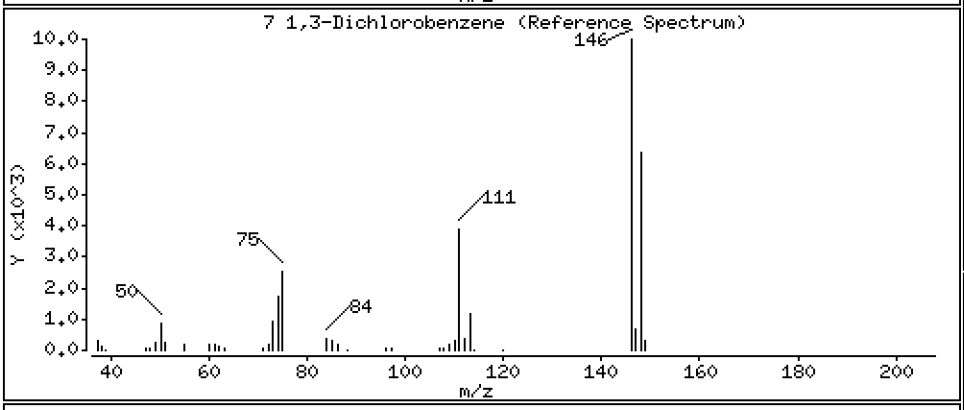
Column diameter: 0.25

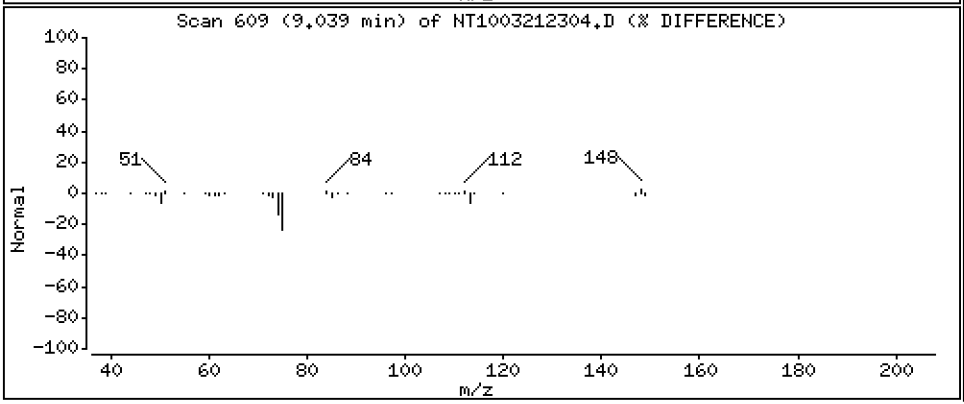
7 1,3-Dichlorobenzene

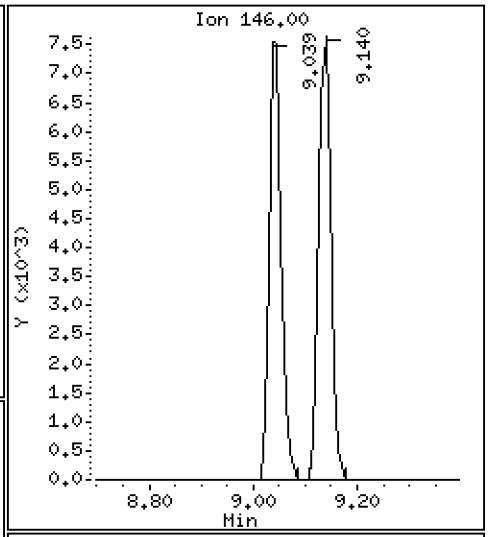
Concentration: 0.2056 ug/mL

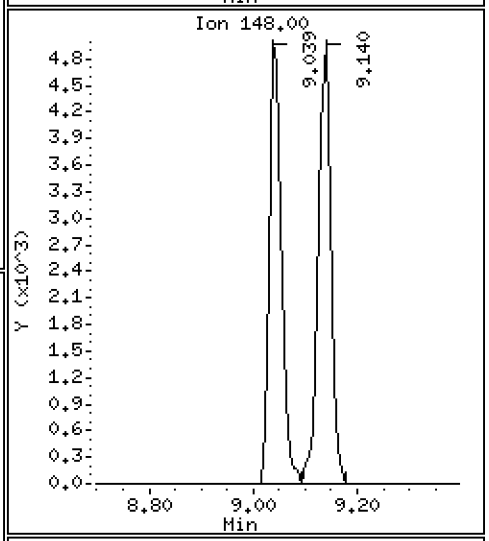


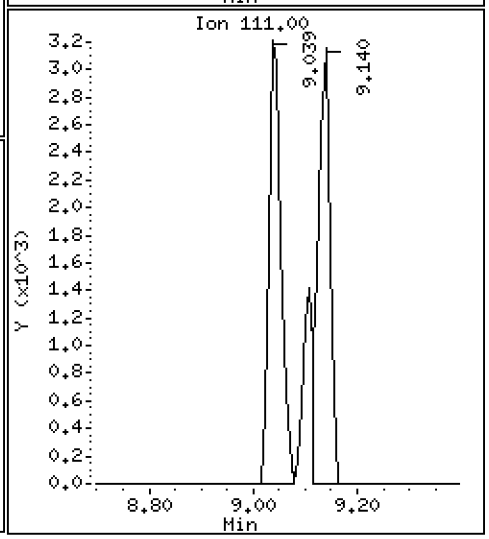












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

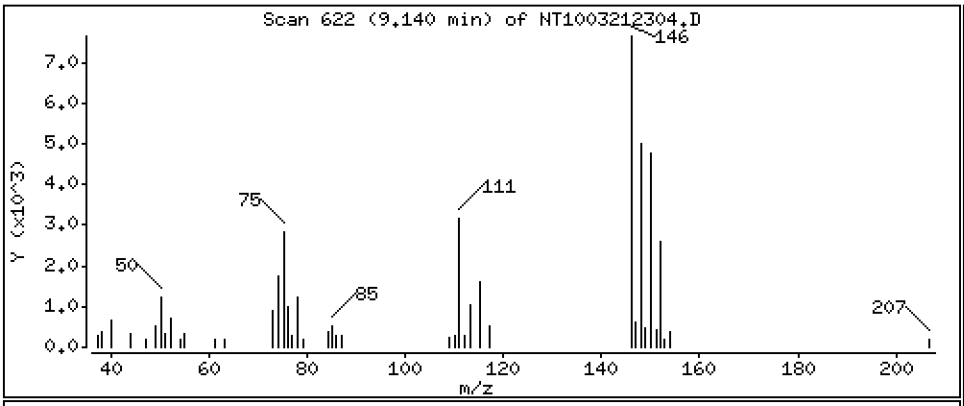
Operator: VTS

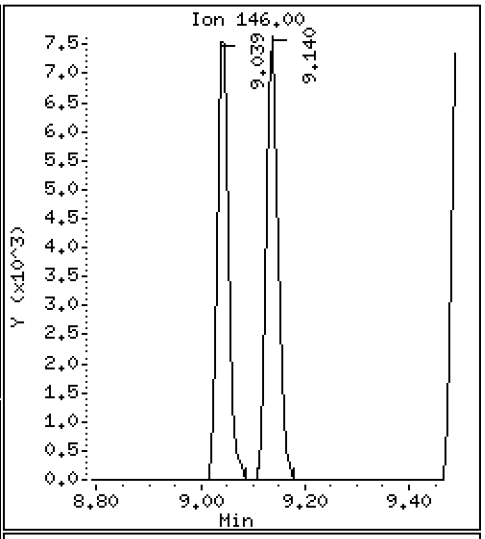
Column phase: ZB-5msi

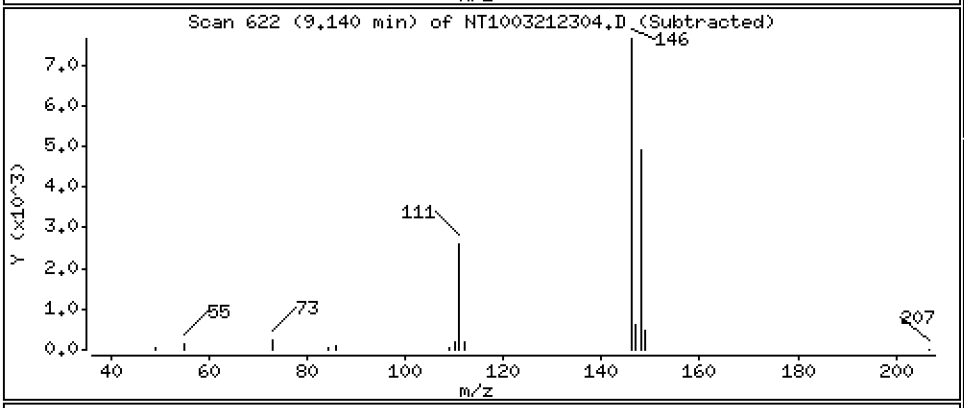
Column diameter: 0.25

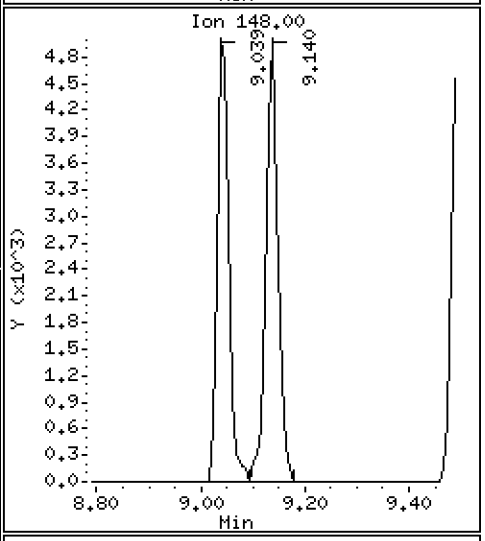
9 1,4-Dichlorobenzene

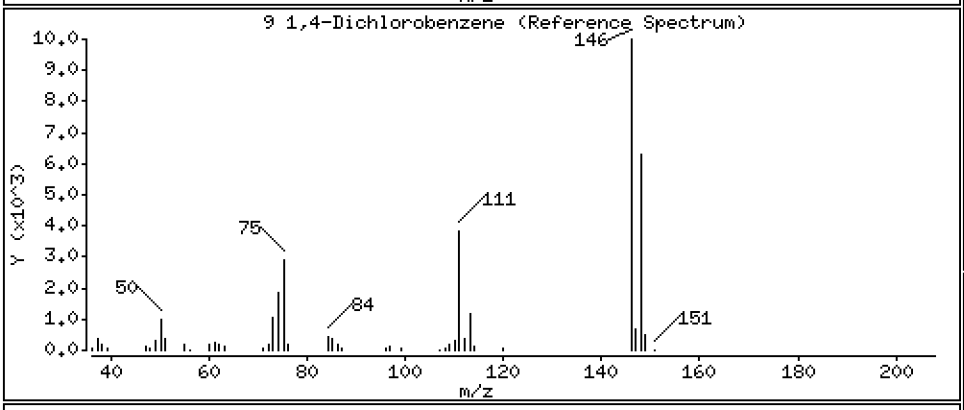
Concentration: 0.2108 ug/mL

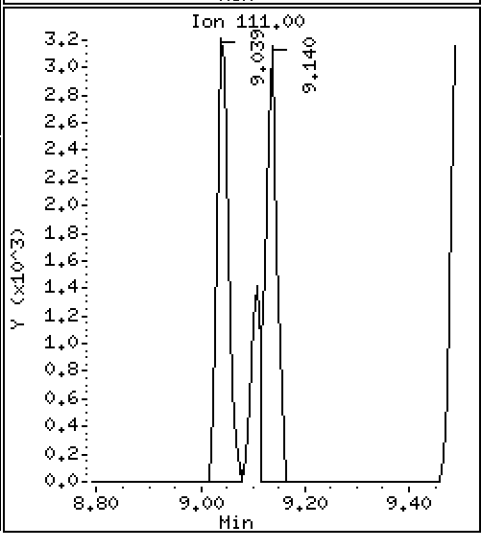


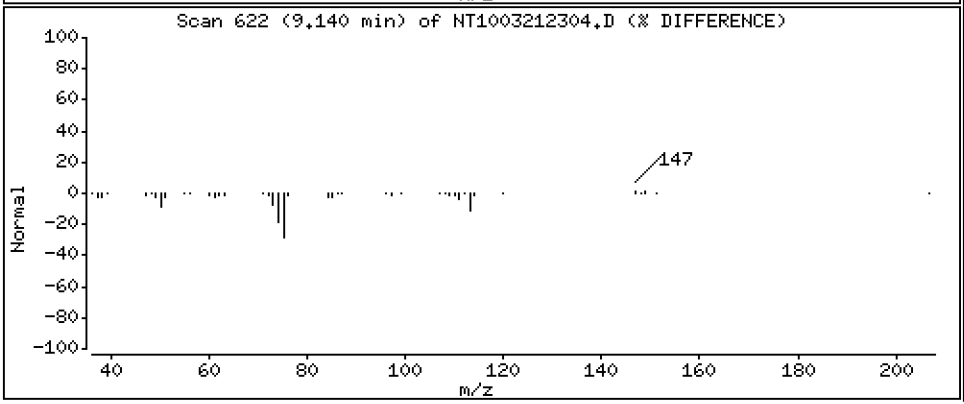












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

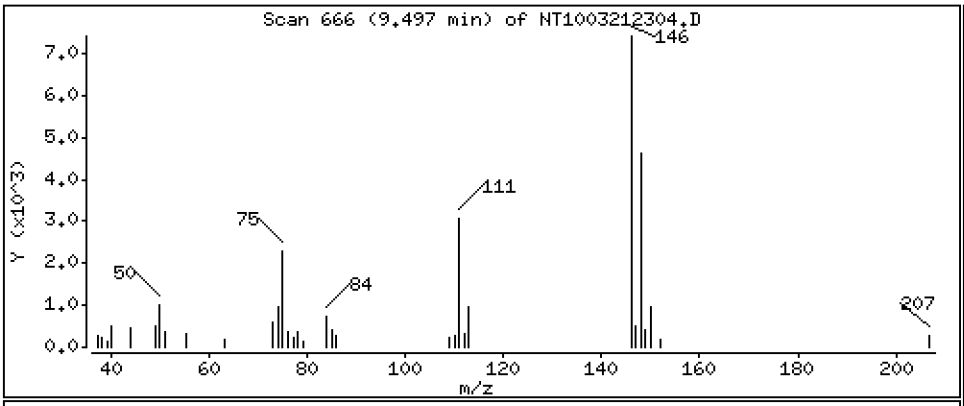
Operator: VTS

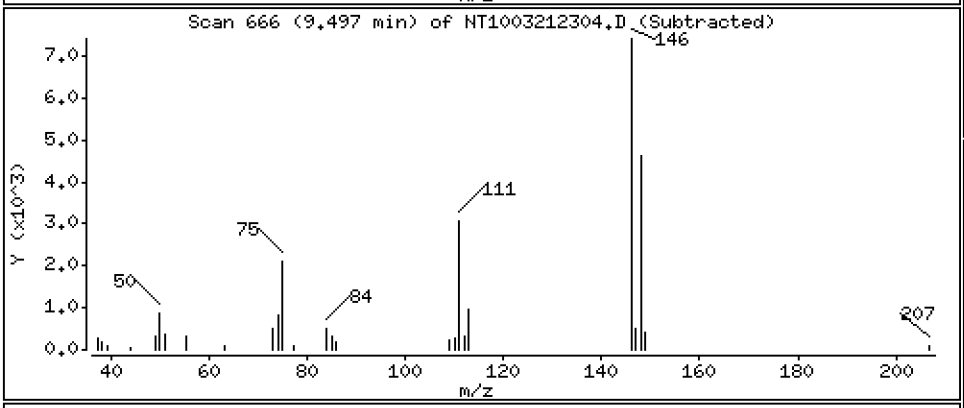
Column phase: ZB-5msi

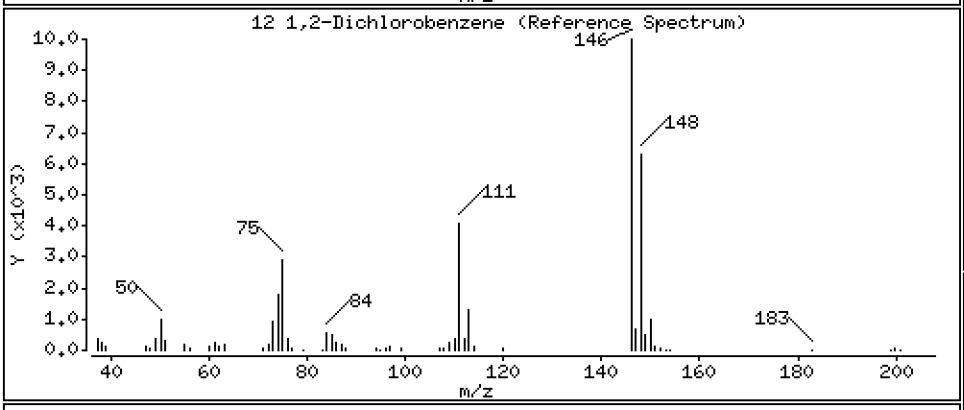
Column diameter: 0.25

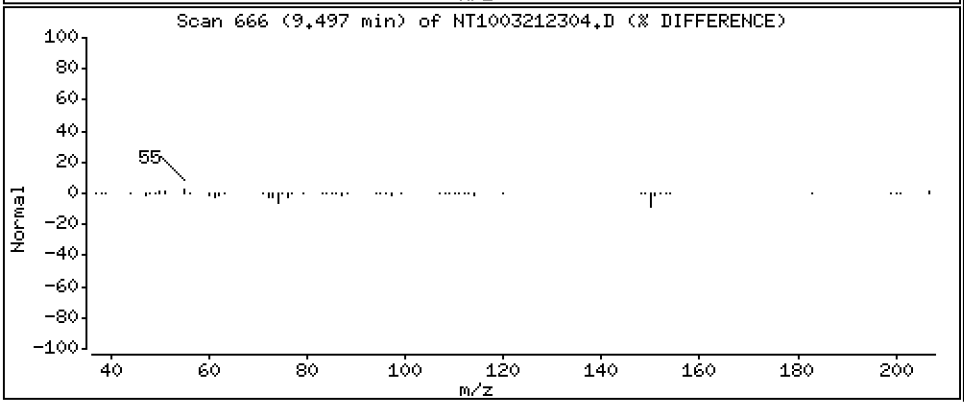
12 1,2-Dichlorobenzene

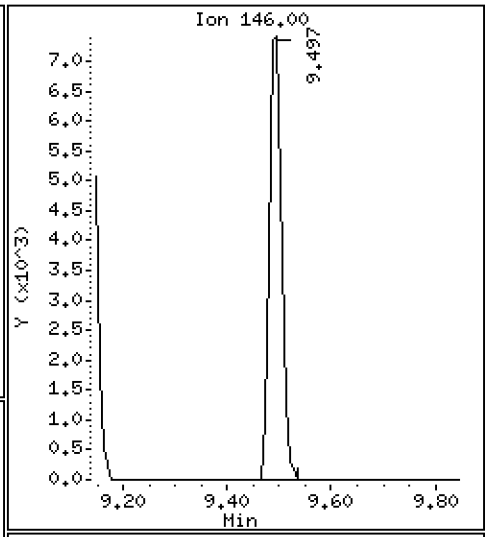
Concentration: 0.2085 ug/mL

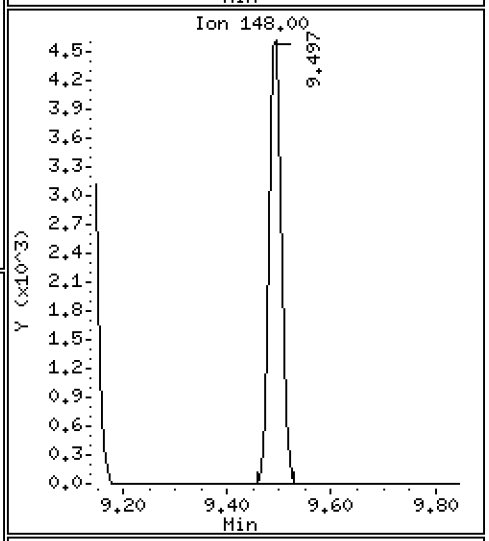


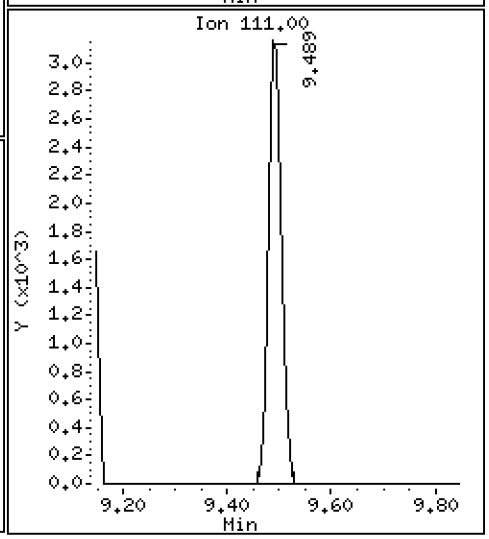












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

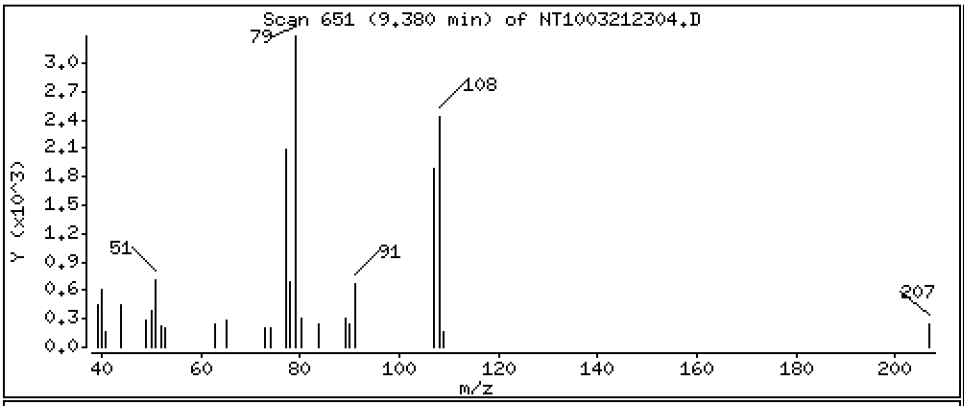
Operator: VTS

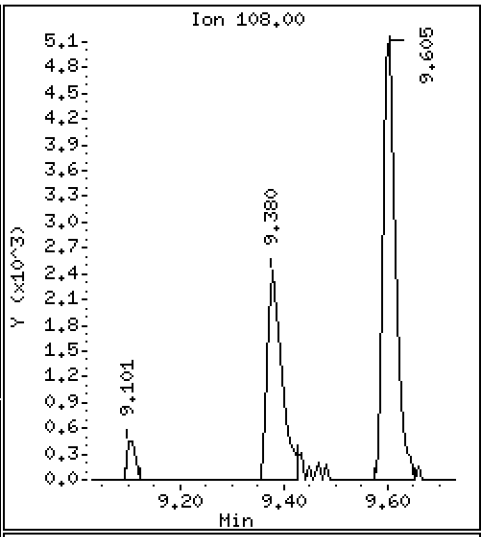
Column phase: ZB-5msi

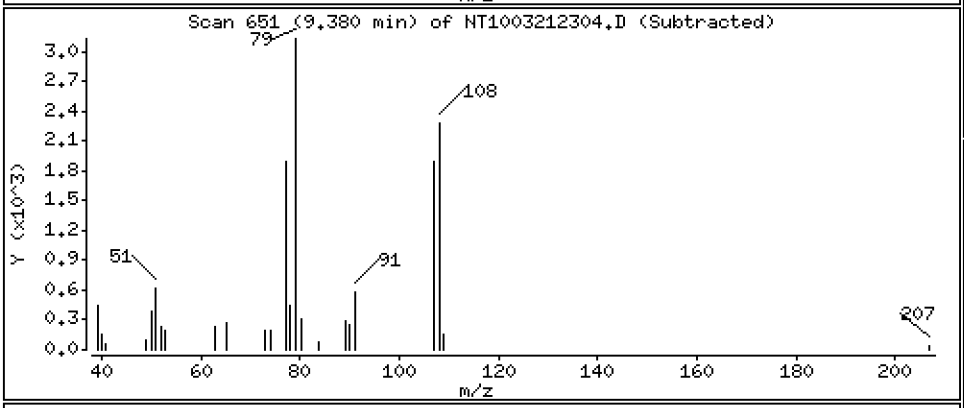
Column diameter: 0.25

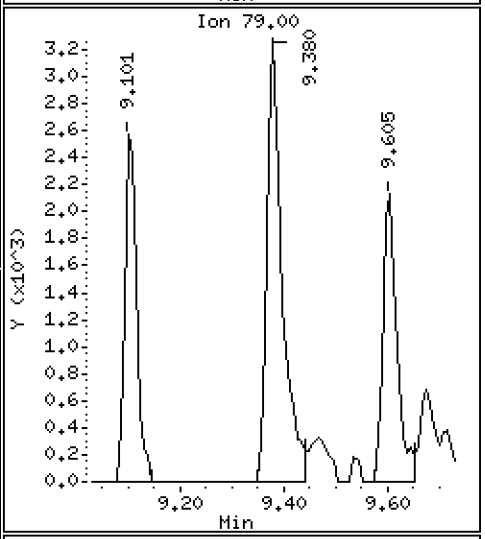
11 Benzyl alcohol

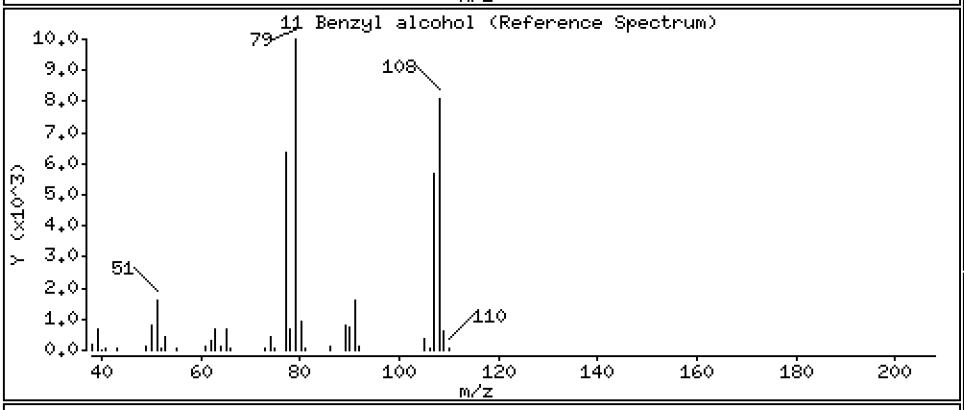
Concentration: 0.1481 ug/mL

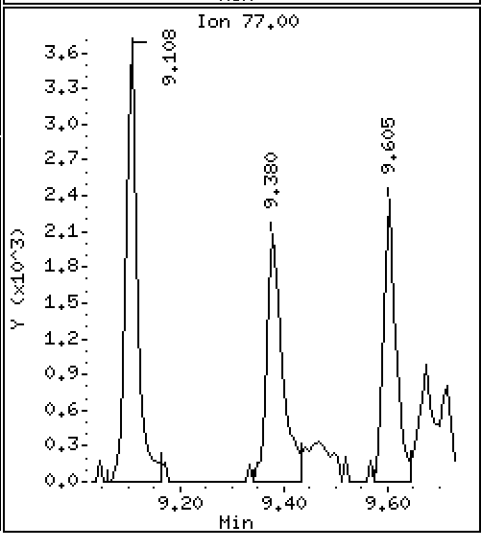


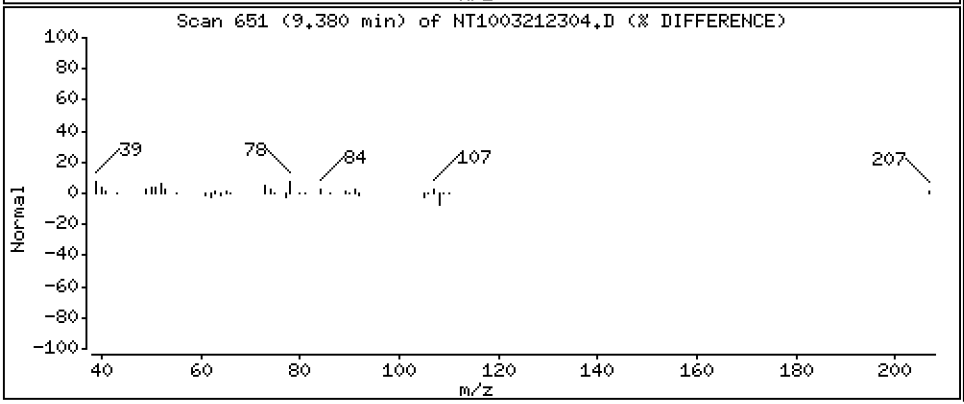












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

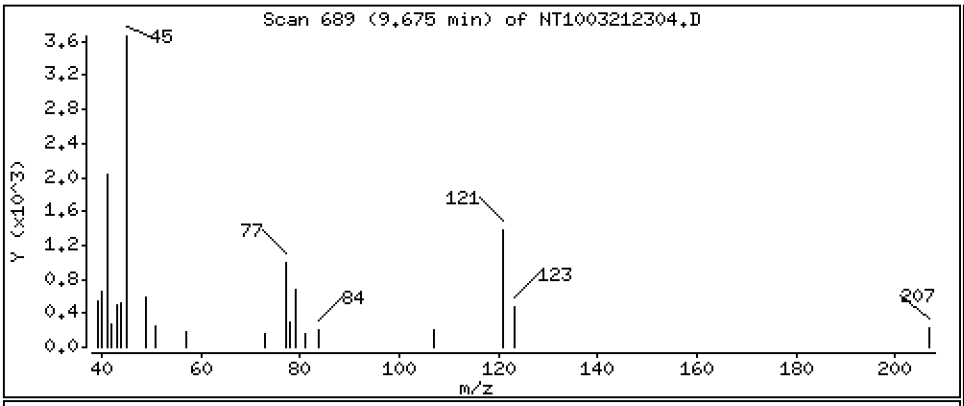
Operator: VTS

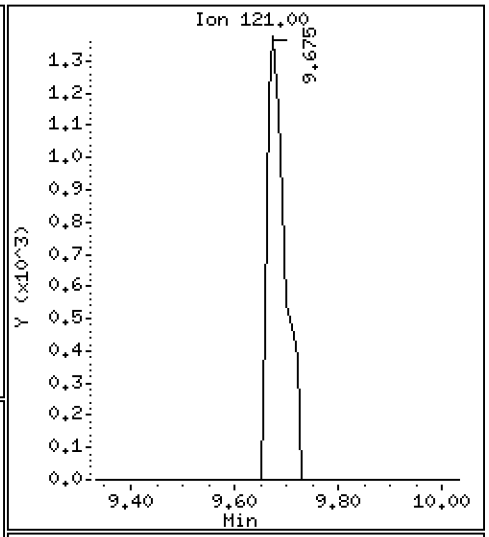
Column phase: ZB-5msi

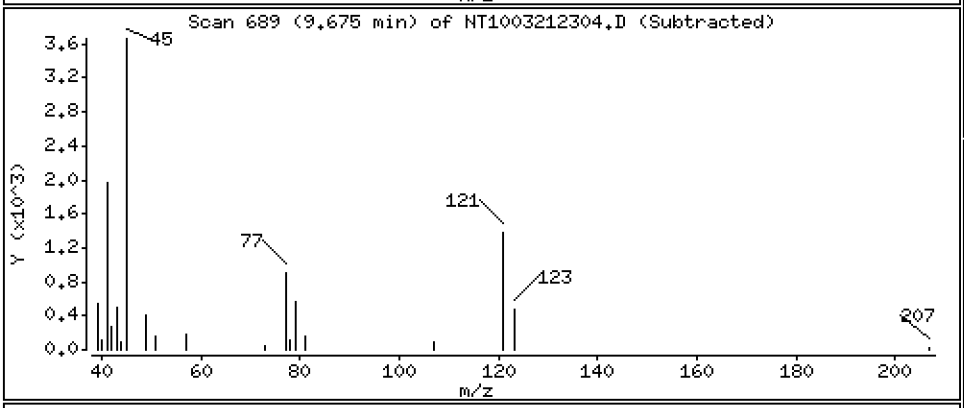
Column diameter: 0.25

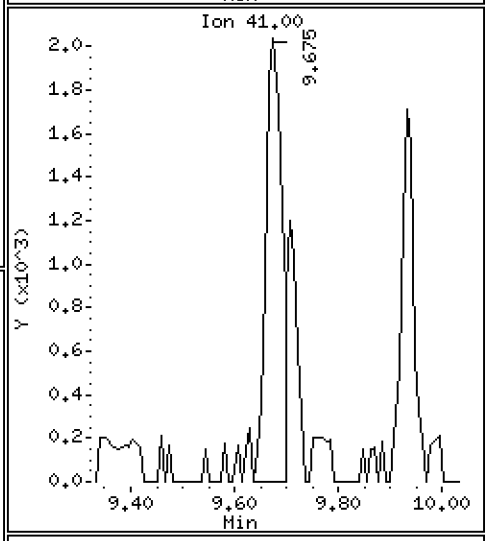
14 2,2'-oxybis(1-Chloropropane)

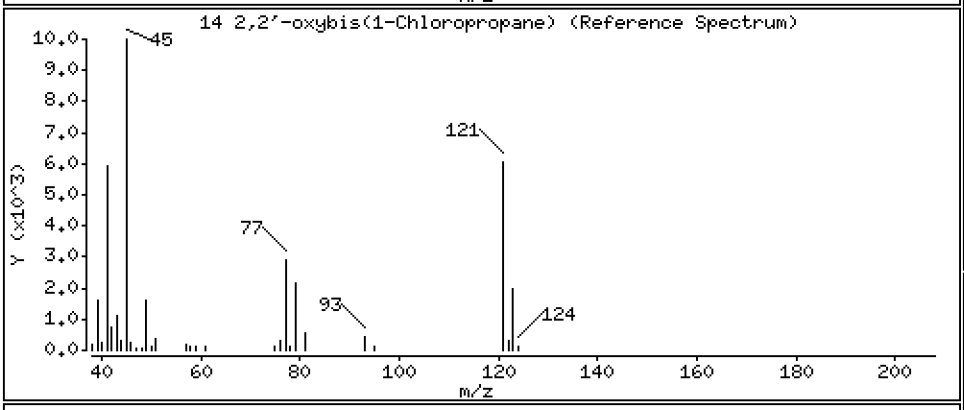
Concentration: 0.1975 ug/mL

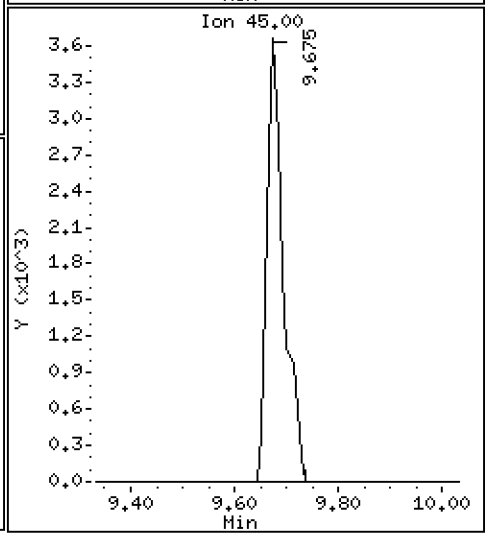


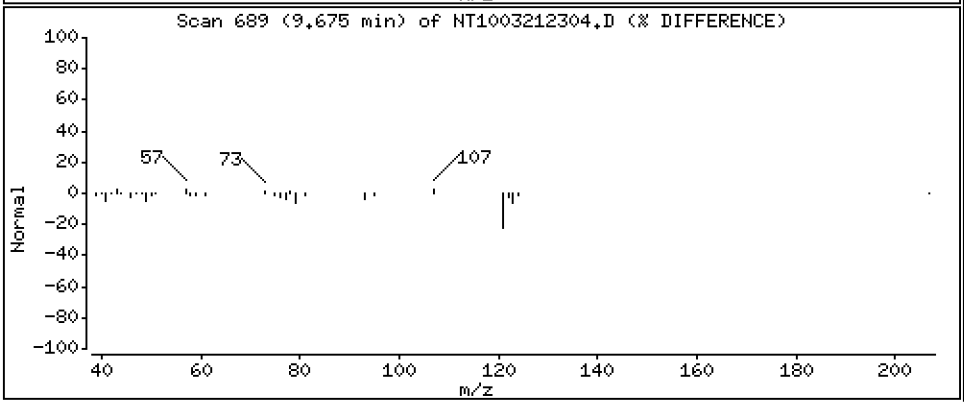












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

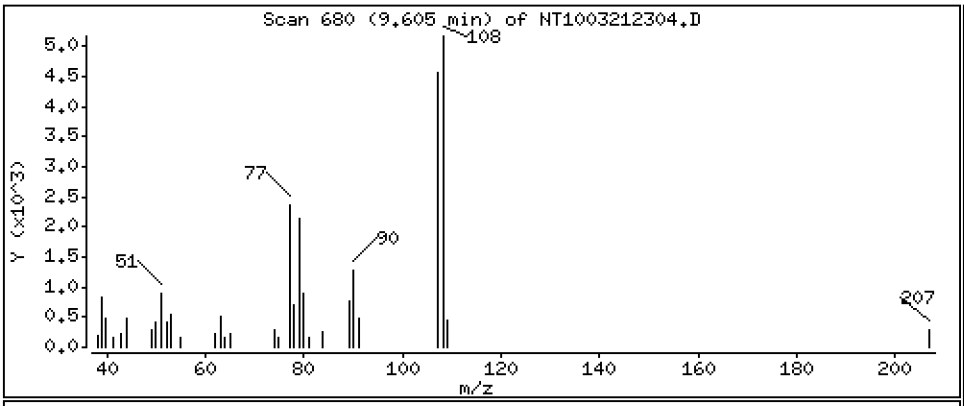
Operator: VTS

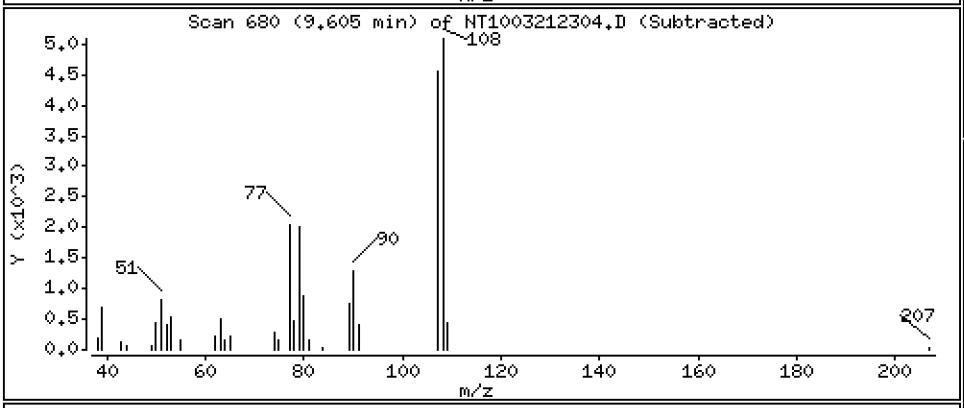
Column phase: ZB-5msi

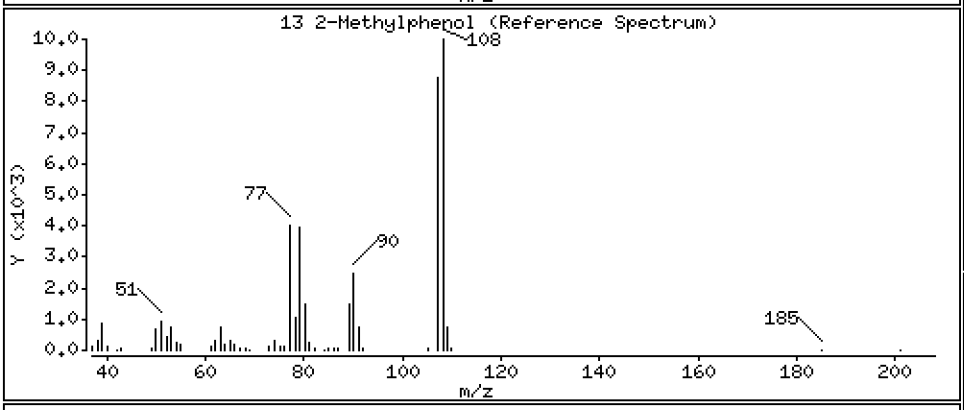
Column diameter: 0.25

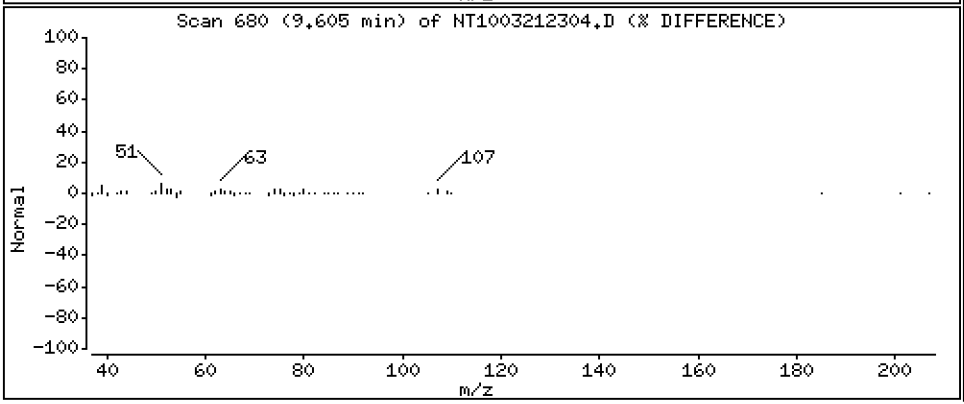
13 2-Methylphenol

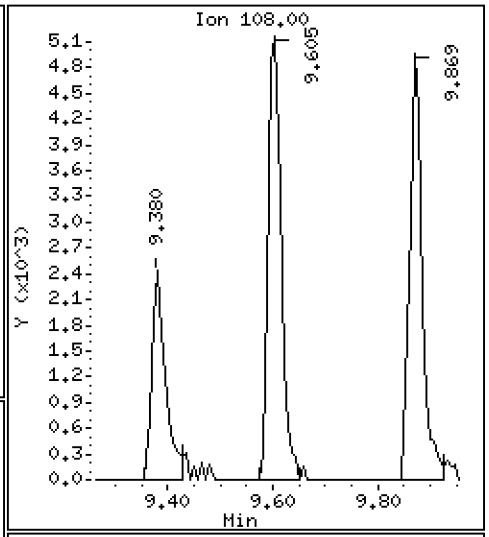
Concentration: 0.1812 ug/mL

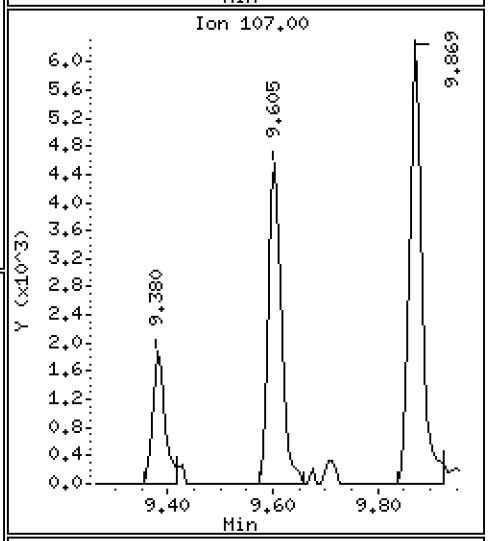


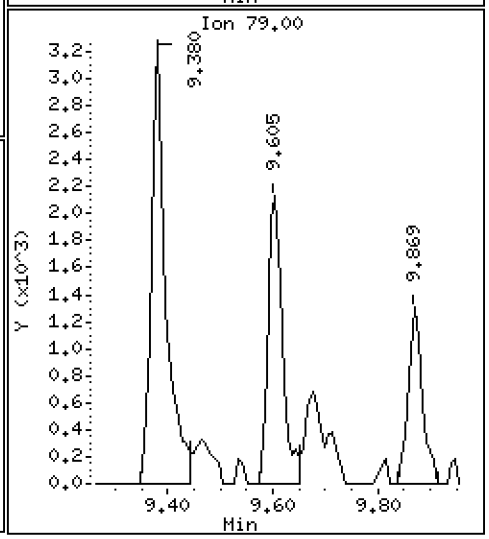












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

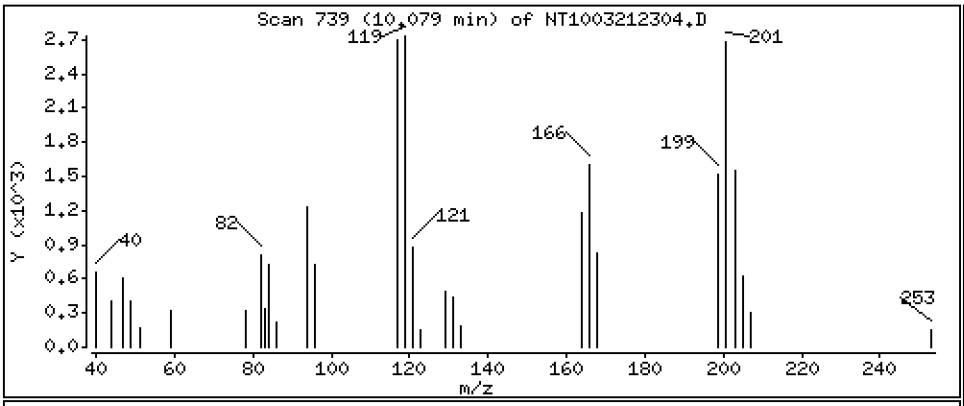
Operator: VTS

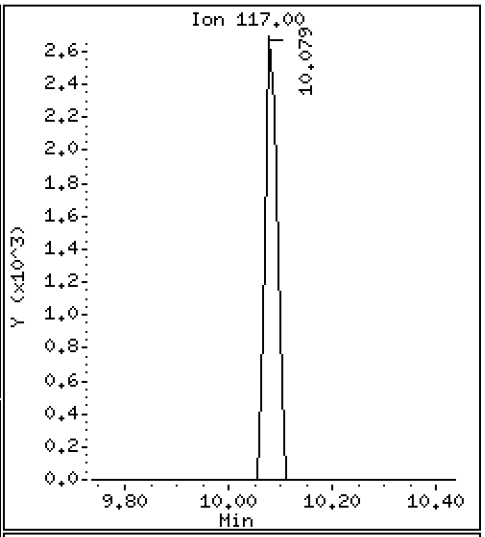
Column phase: ZB-5msi

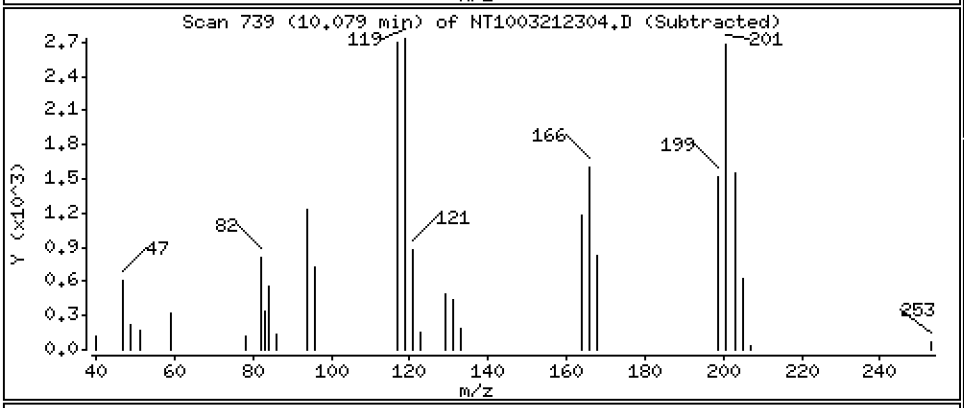
Column diameter: 0.25

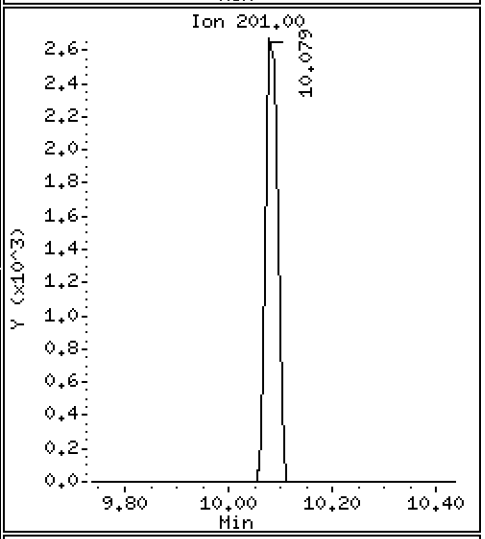
17 Hexachloroethane

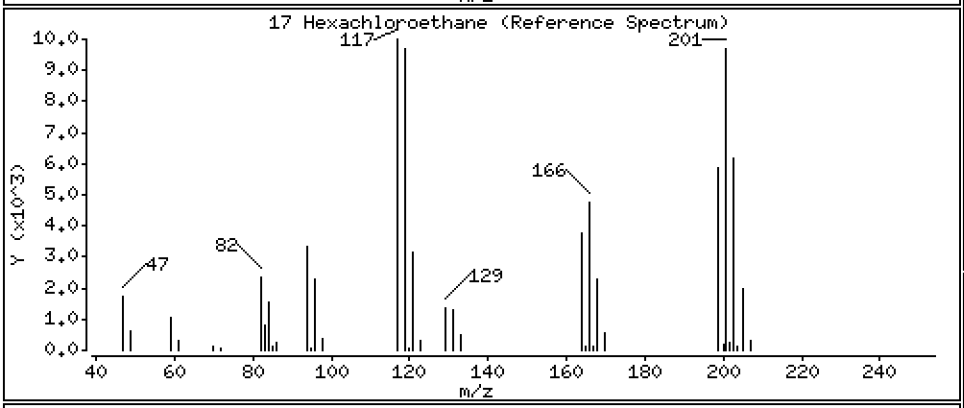
Concentration: 0.1764 ug/mL

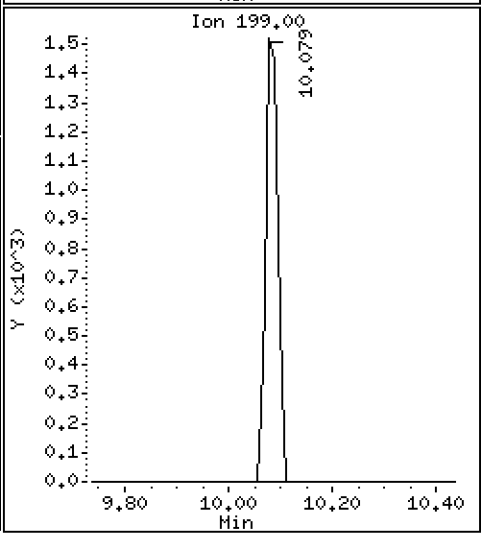


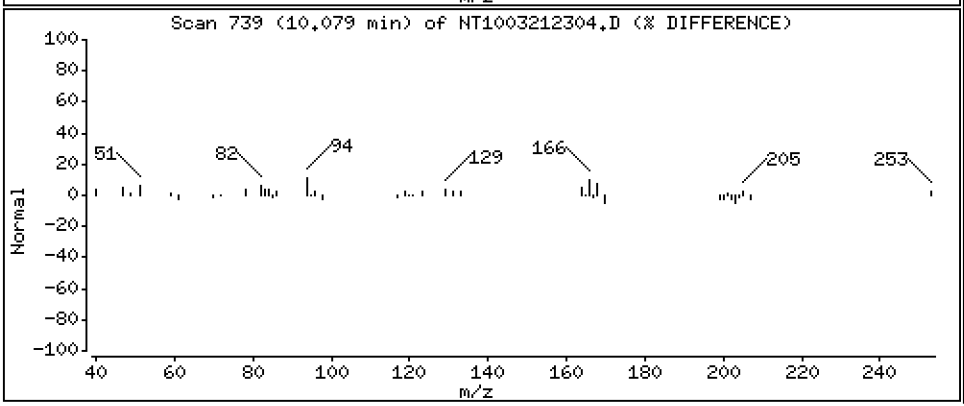












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

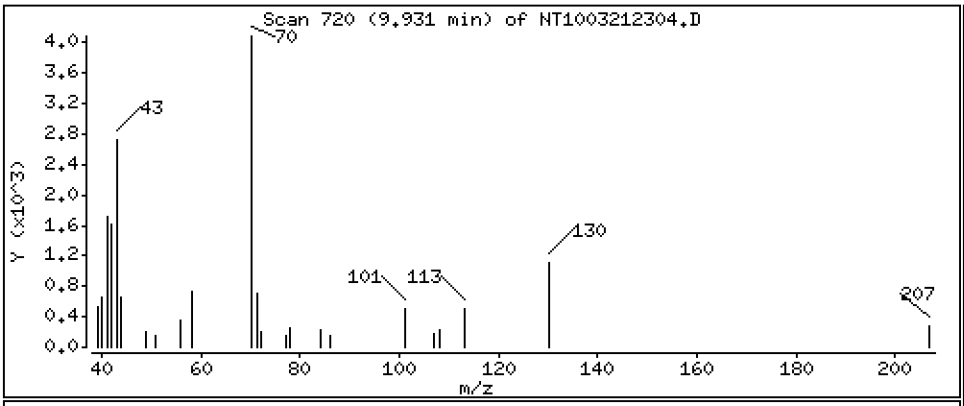
Operator: VTS

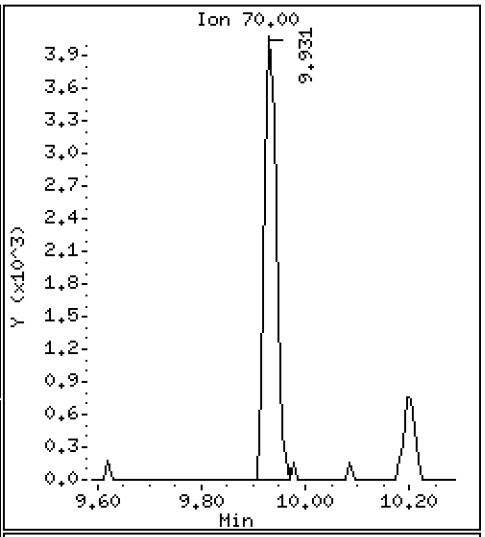
Column phase: ZB-5msi

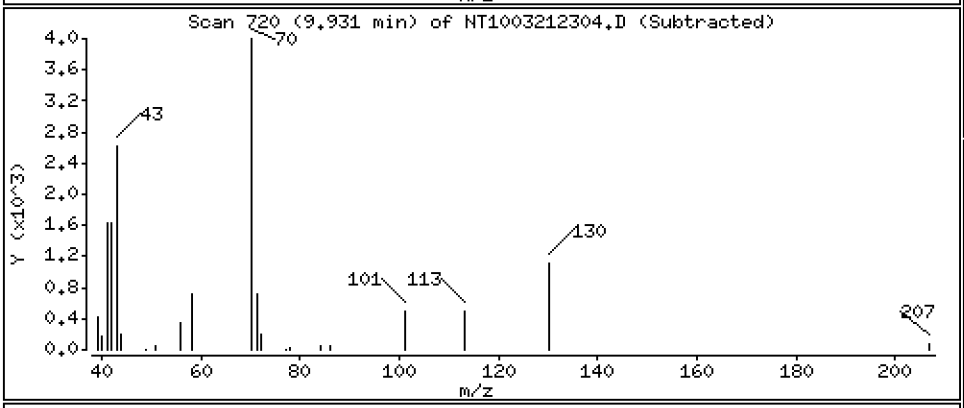
Column diameter: 0.25

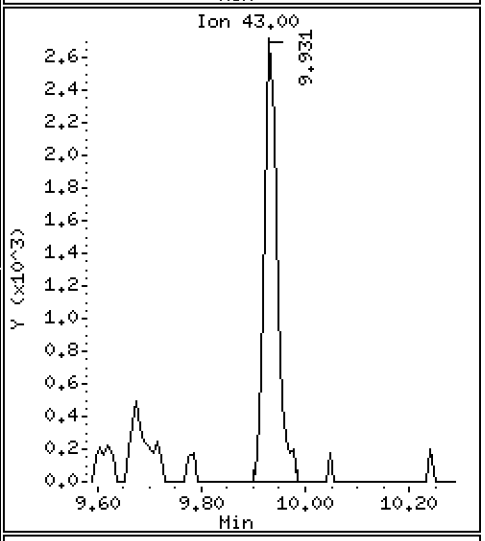
16 N-Nitroso-di-n-propylamine

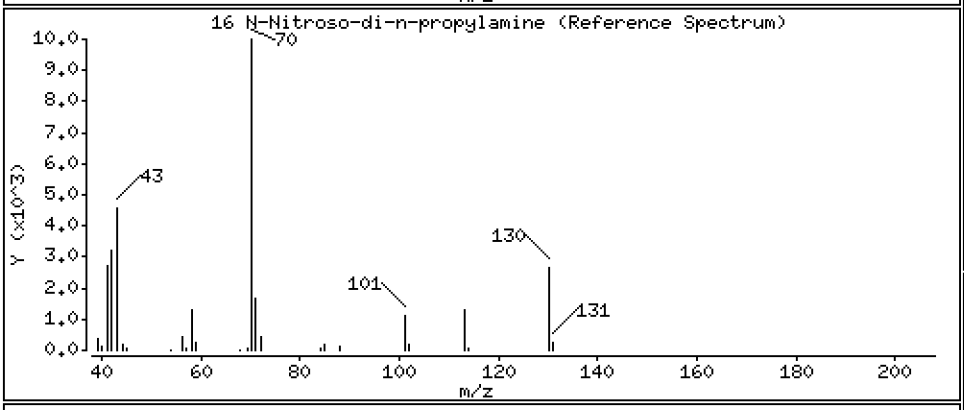
Concentration: 0.1664 ug/mL

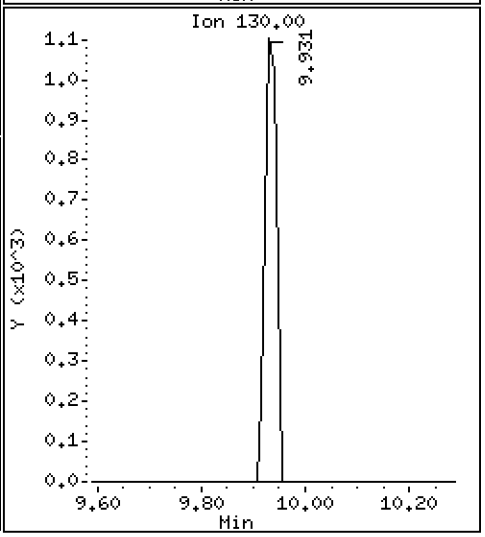


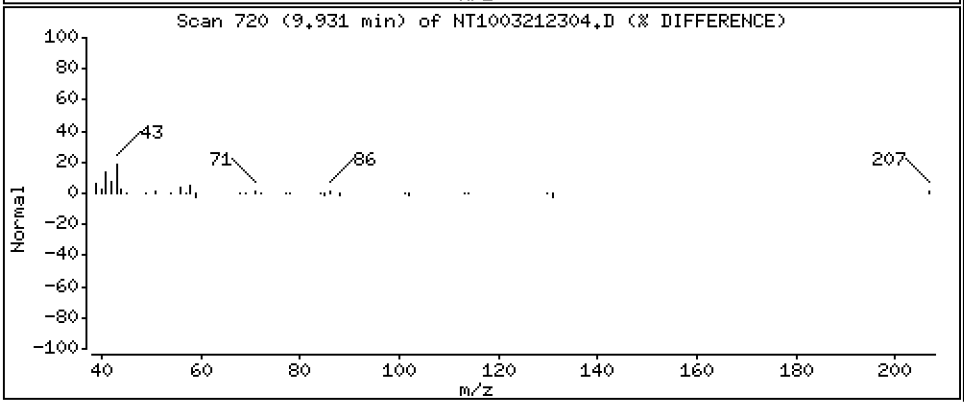












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

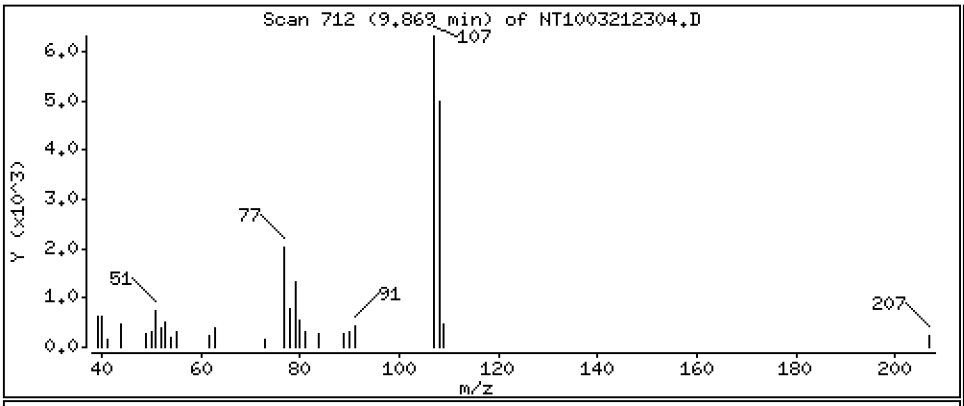
Operator: VTS

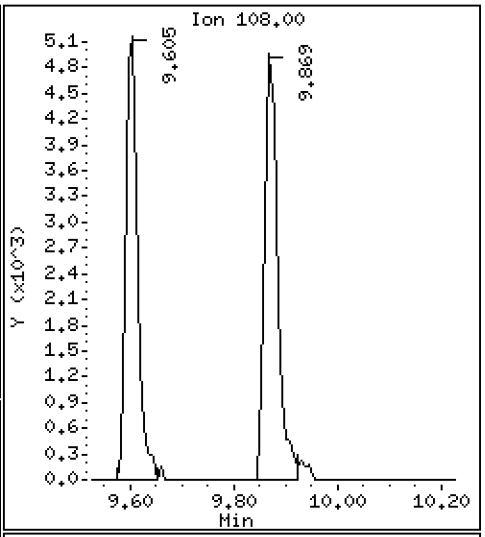
Column phase: ZB-5msi

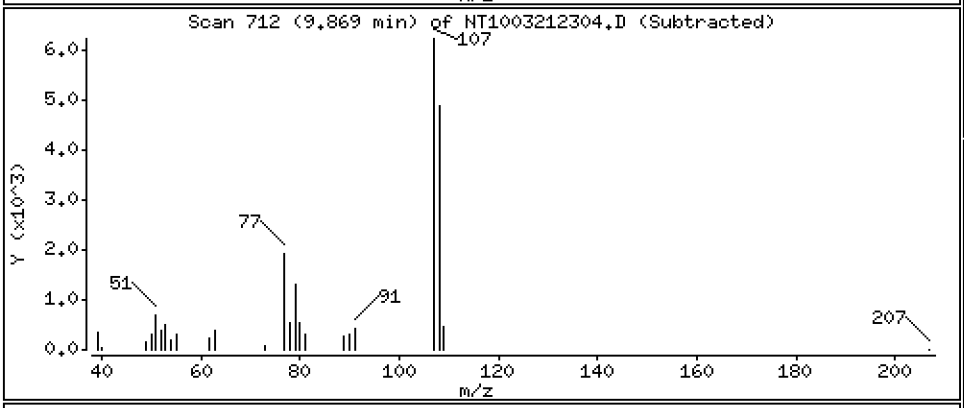
Column diameter: 0.25

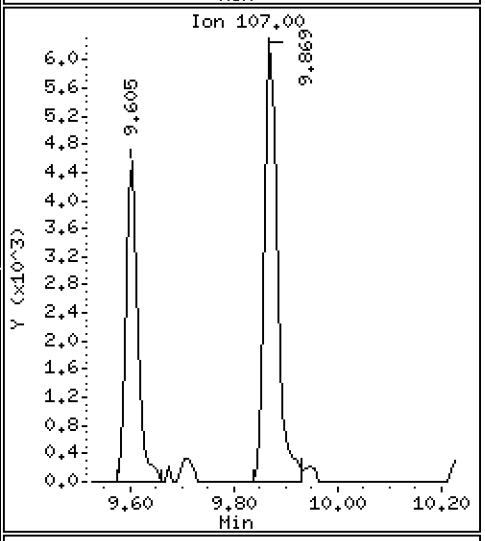
15 4-Methylphenol

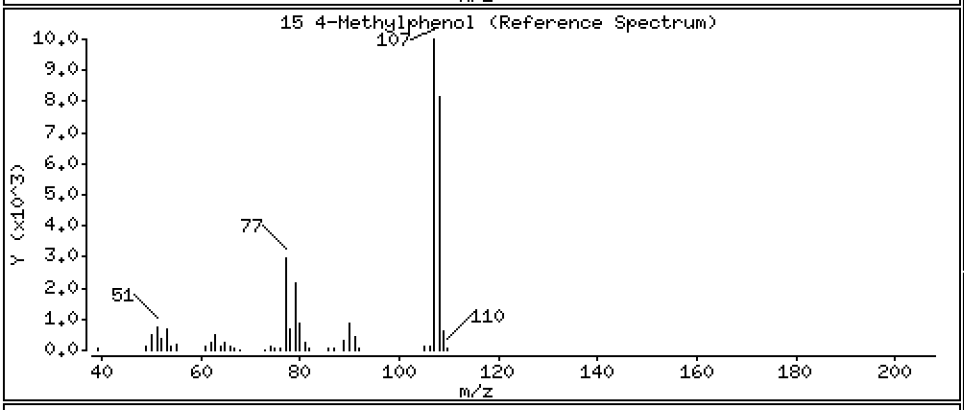
Concentration: 0.1656 ug/mL

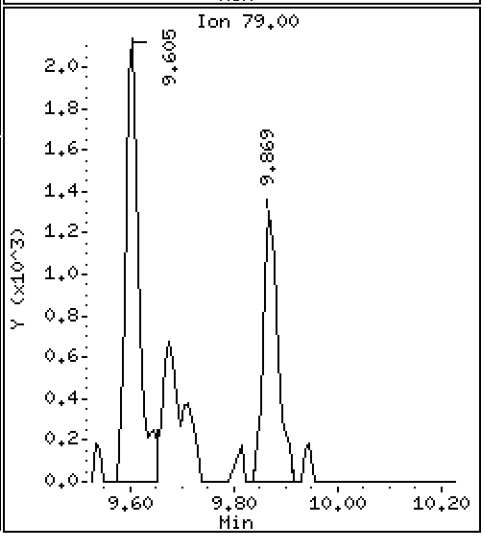


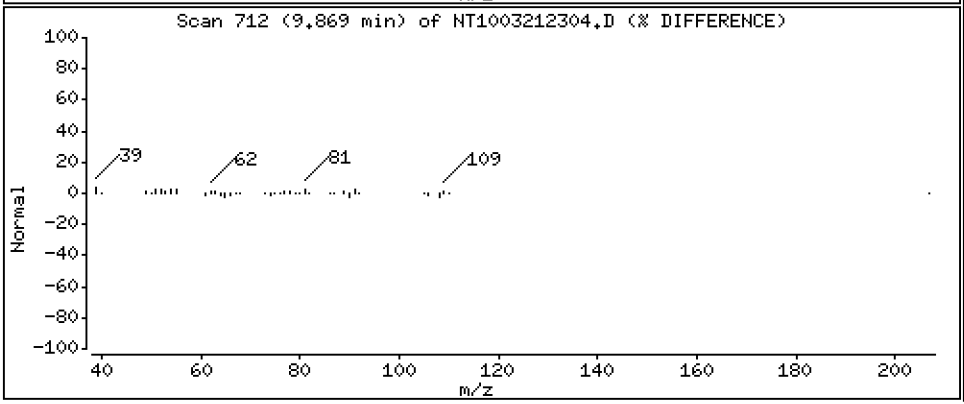












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

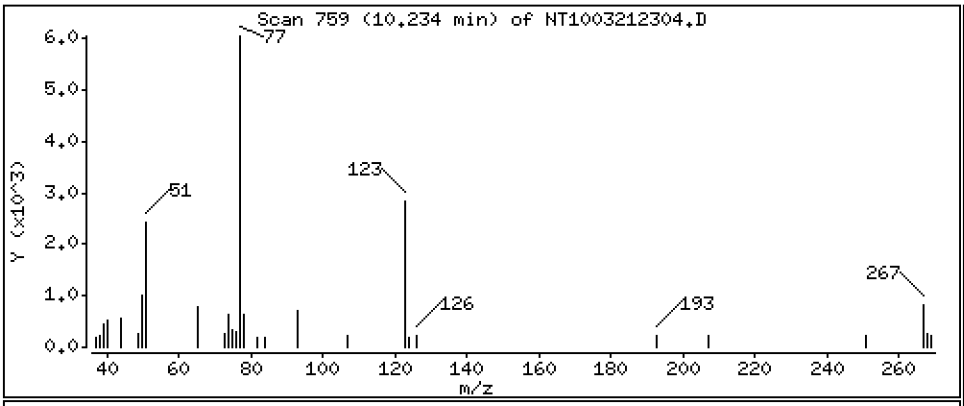
Operator: VTS

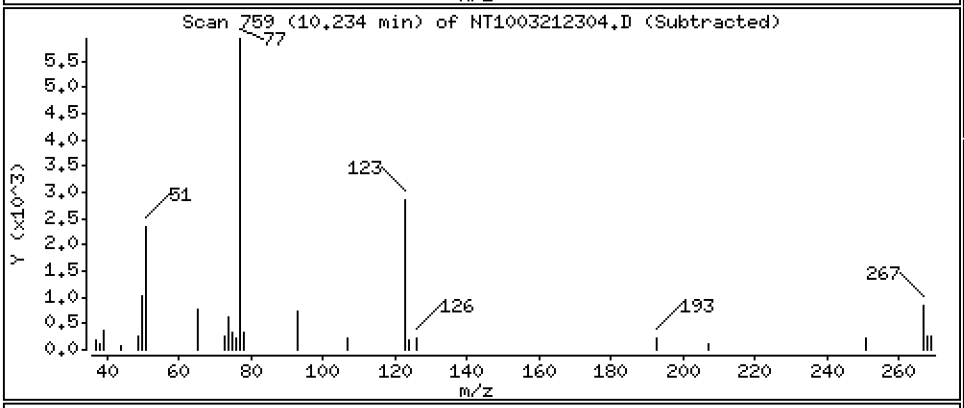
Column phase: ZB-5msi

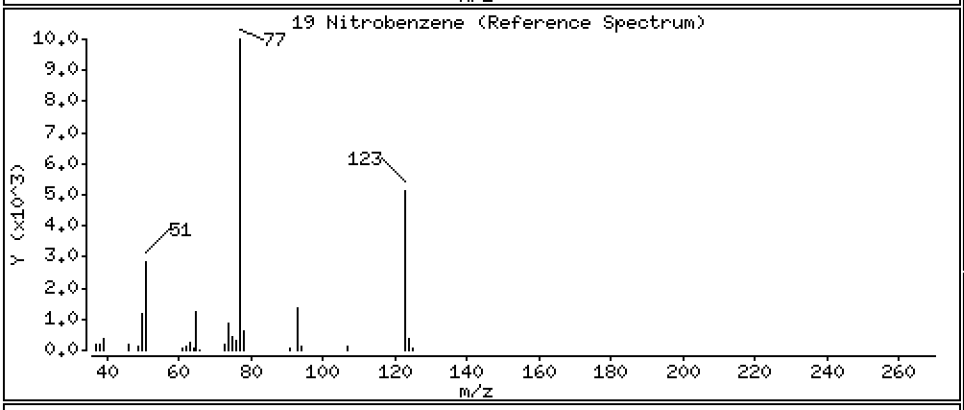
Column diameter: 0.25

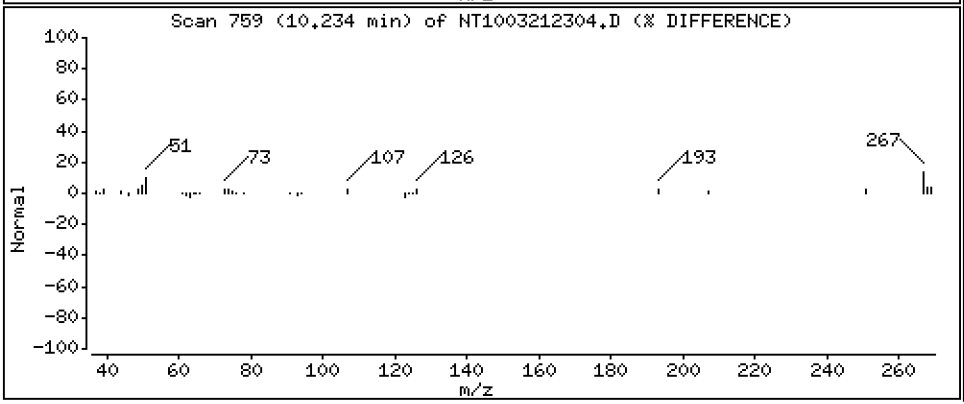
19 Nitrobenzene

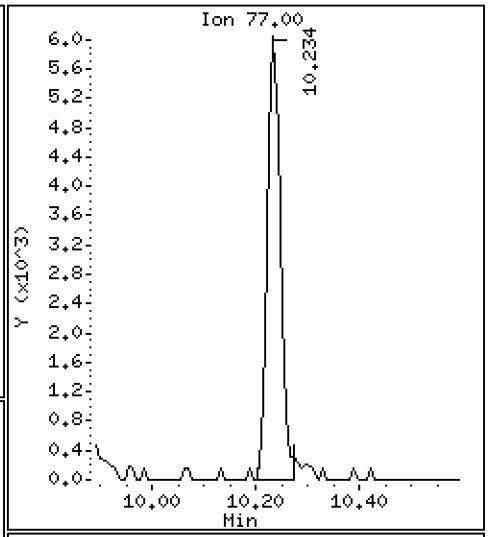
Concentration: 0.1817 ug/mL

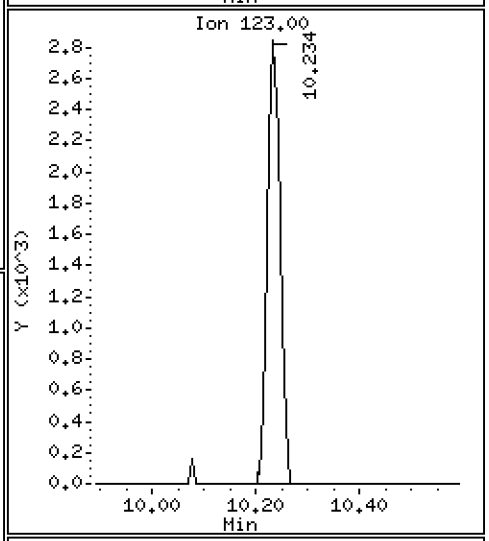


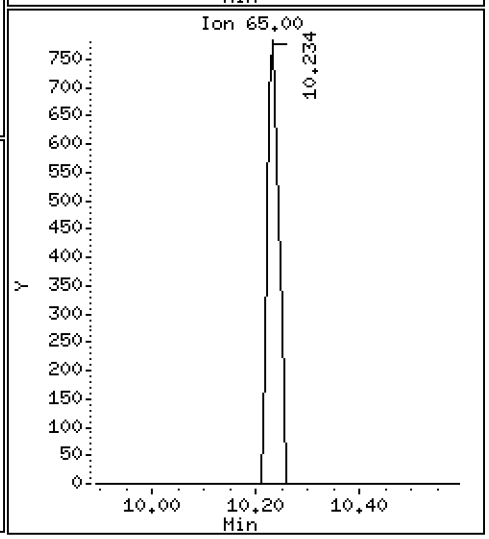












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

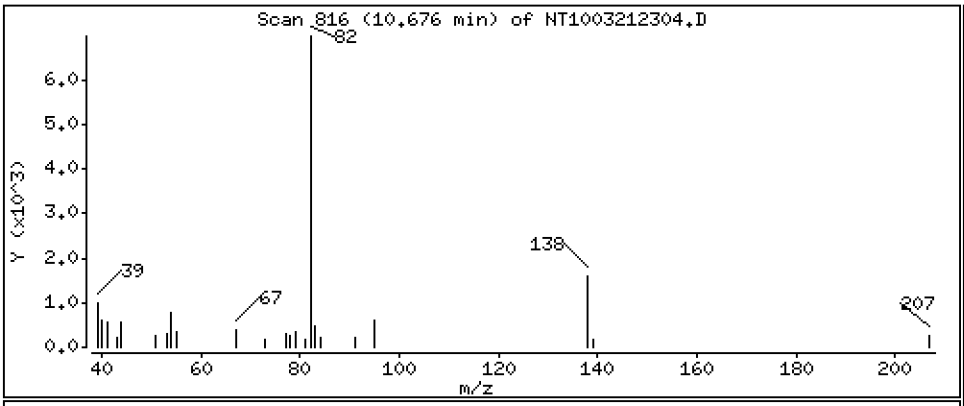
Operator: VTS

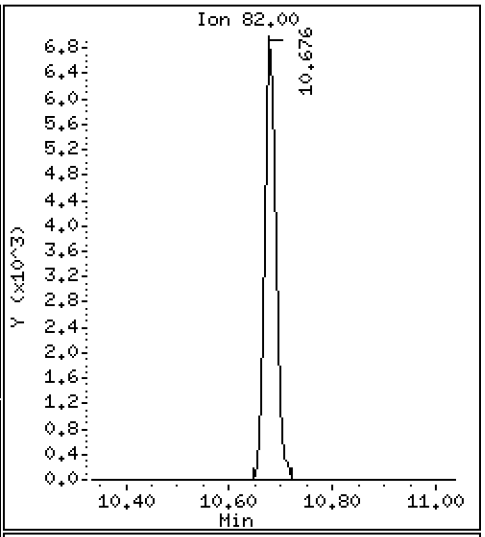
Column phase: ZB-5msi

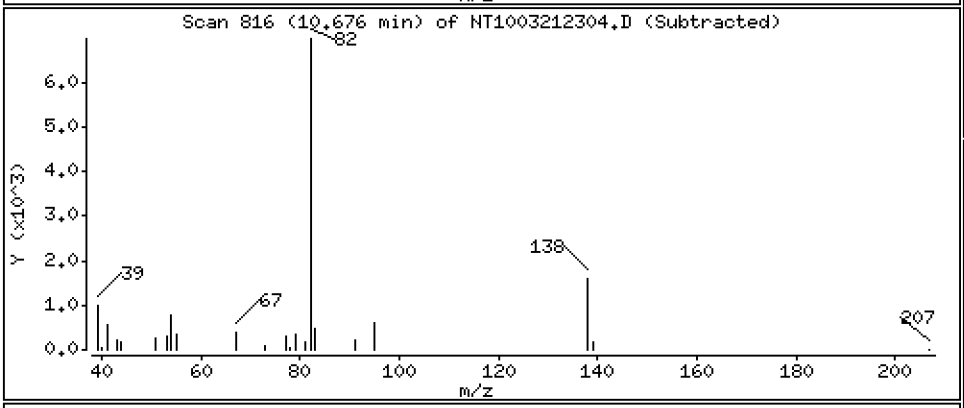
Column diameter: 0.25

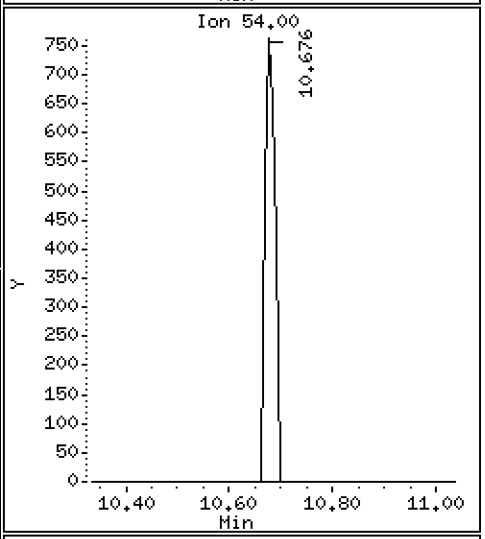
20 Isophorone

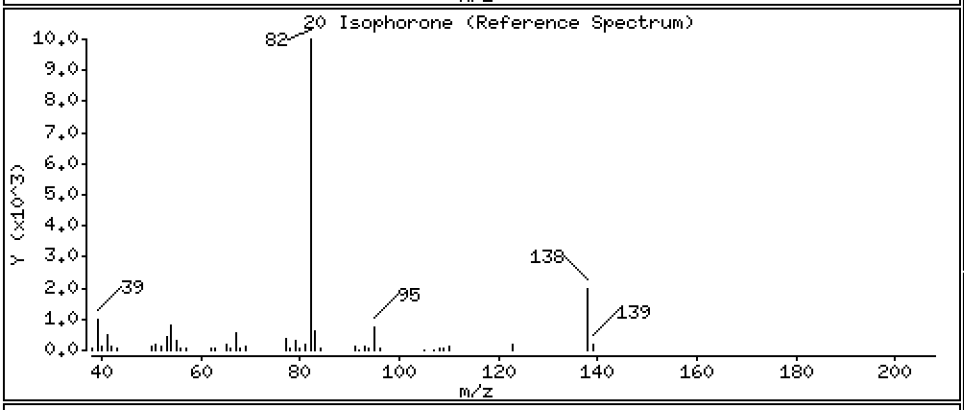
Concentration: 0.1563 ug/mL

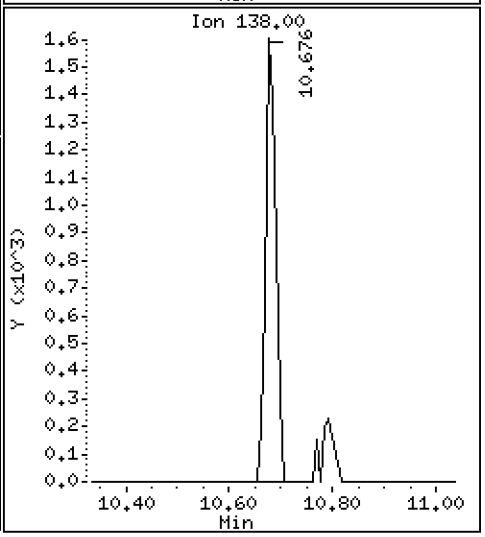


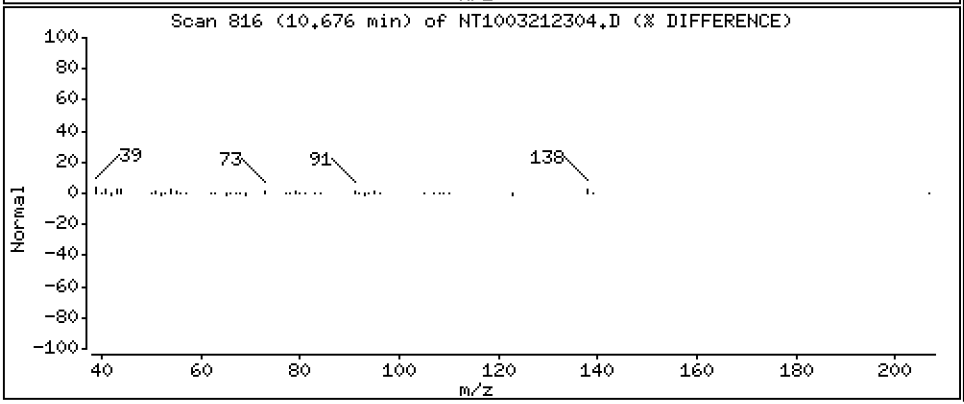












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

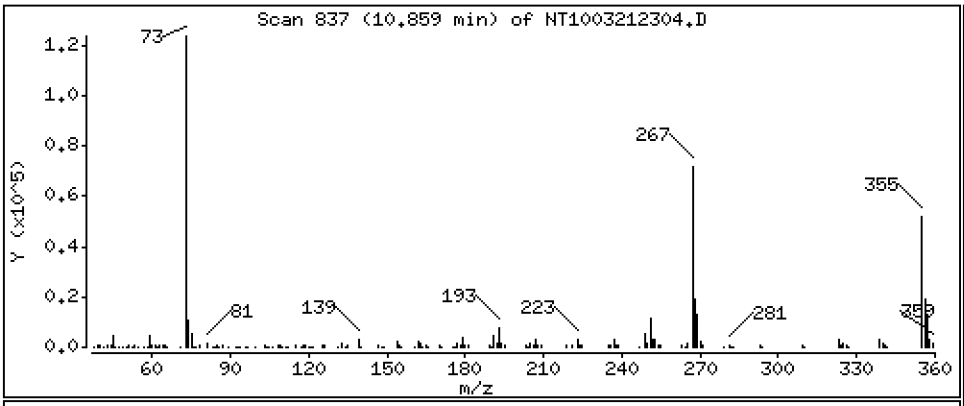
Operator: VTS

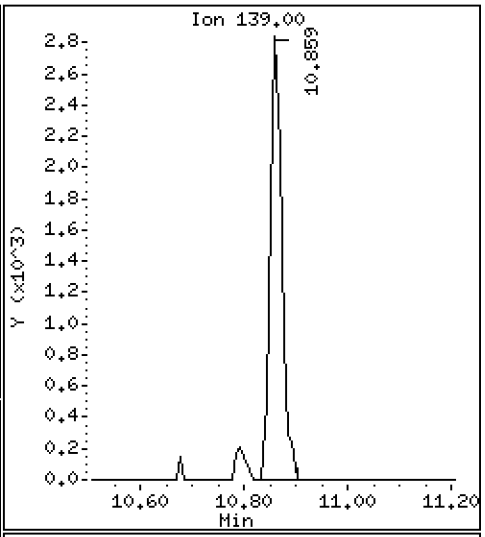
Column phase: ZB-5msi

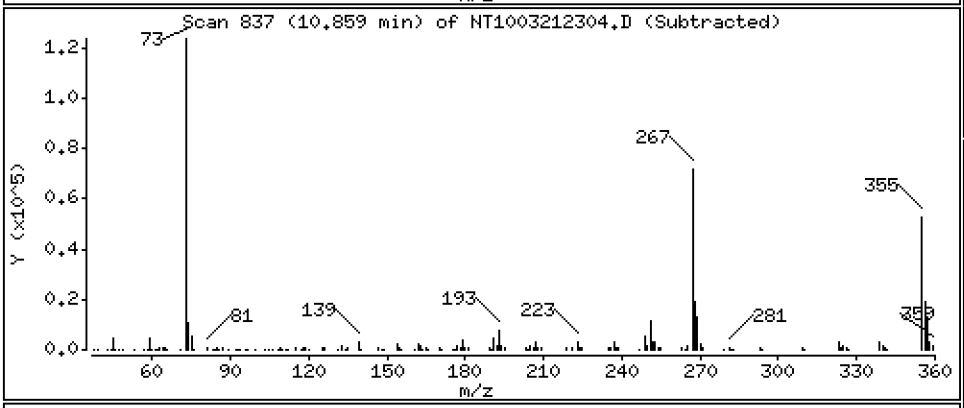
Column diameter: 0.25

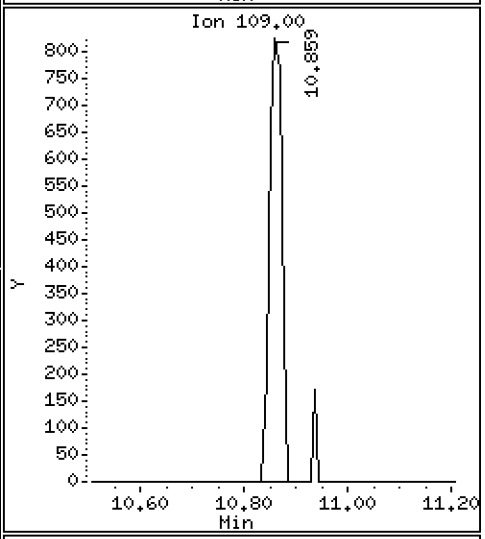
21 2-Nitrophenol

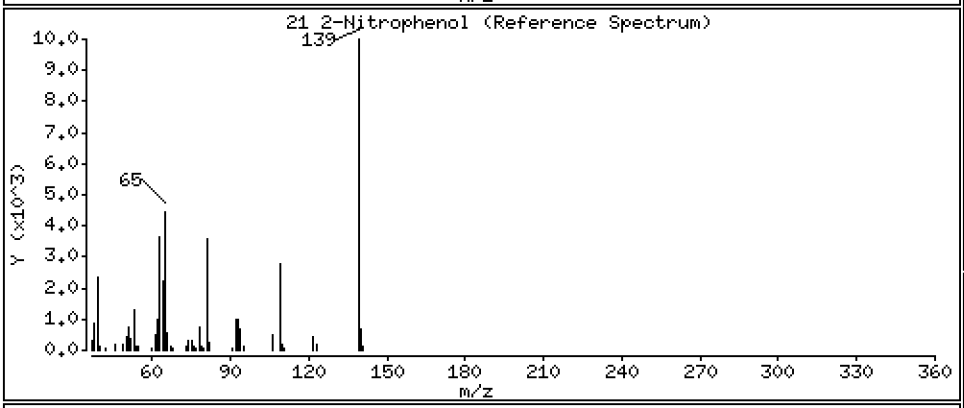
Concentration: 0.1626 ug/mL

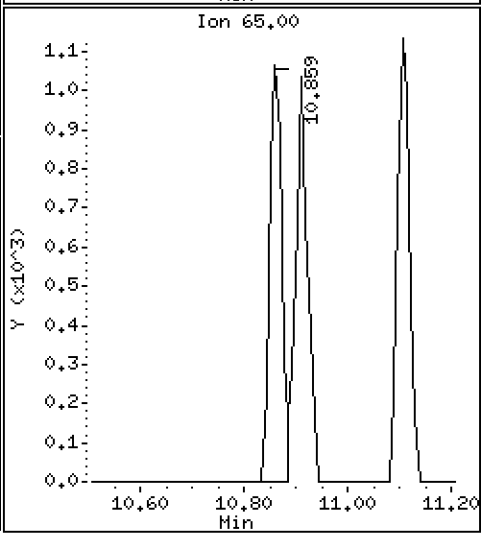


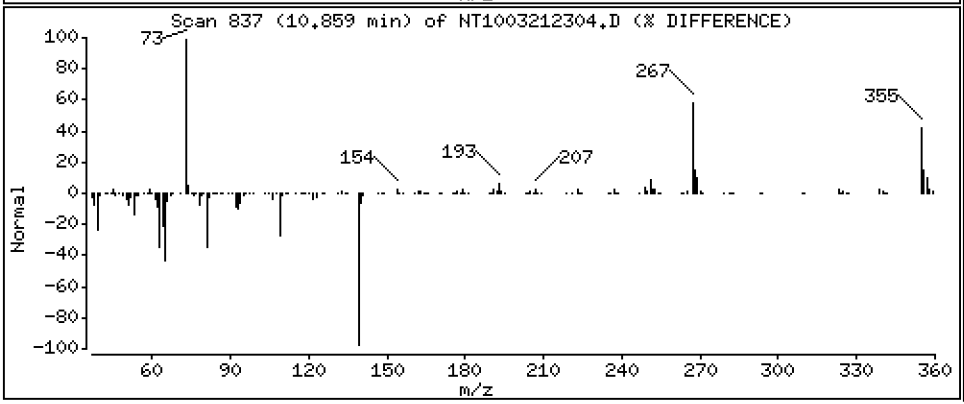












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

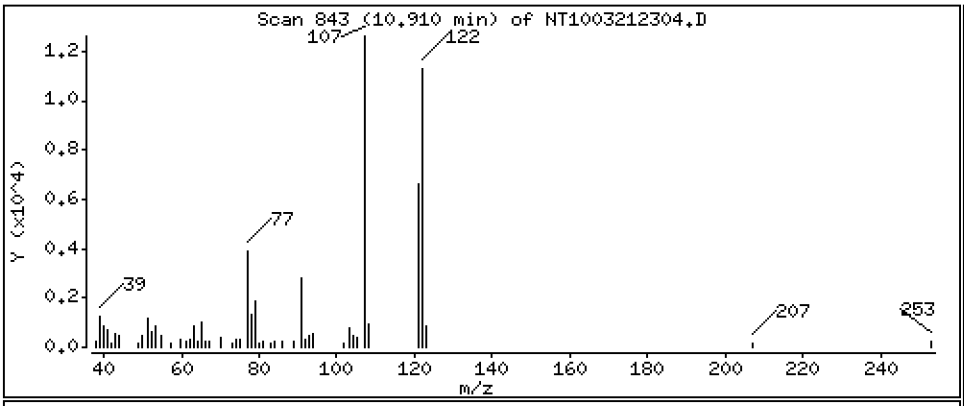
Operator: VTS

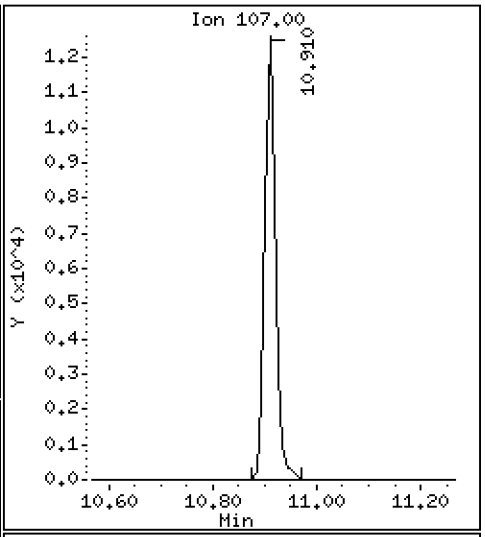
Column phase: ZB-5msi

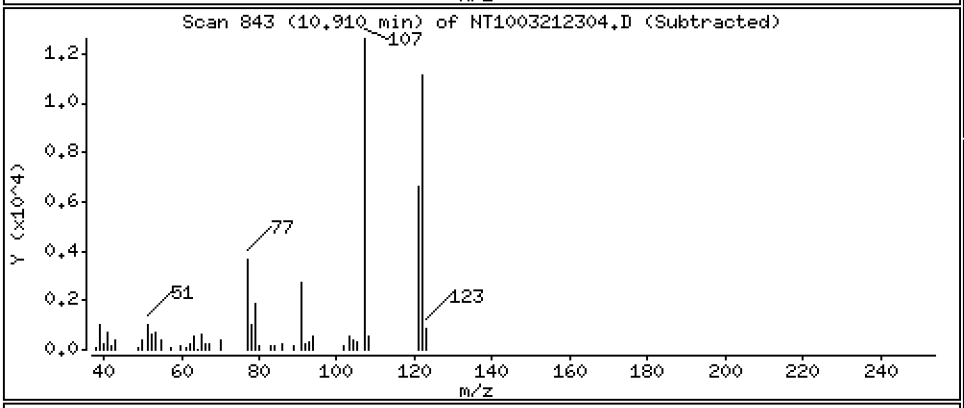
Column diameter: 0.25

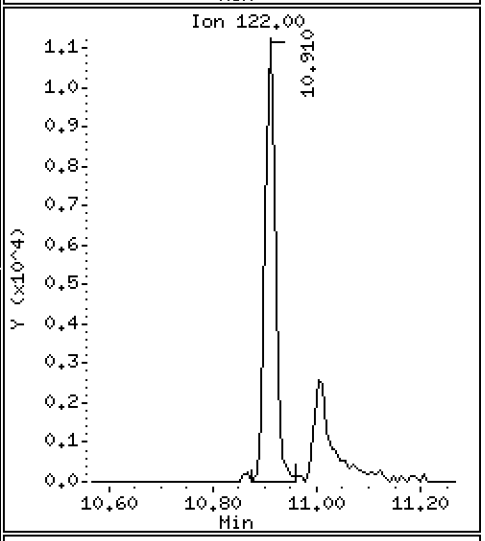
22 2,4-Dimethylphenol

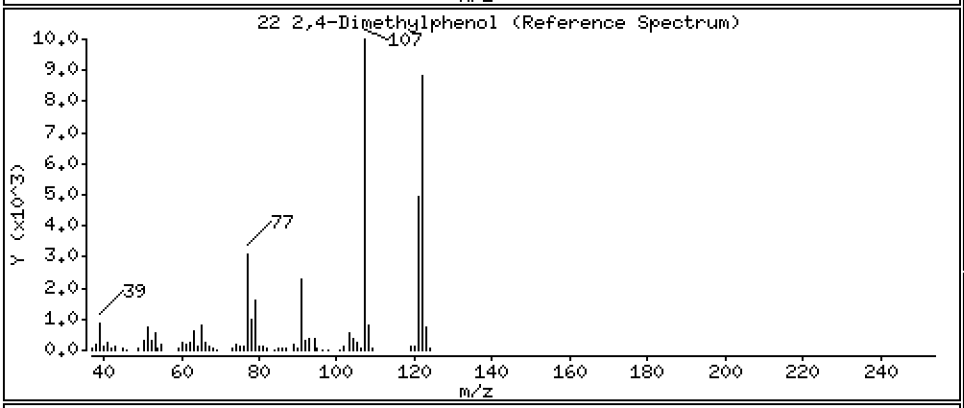
Concentration: 0.3582 ug/mL

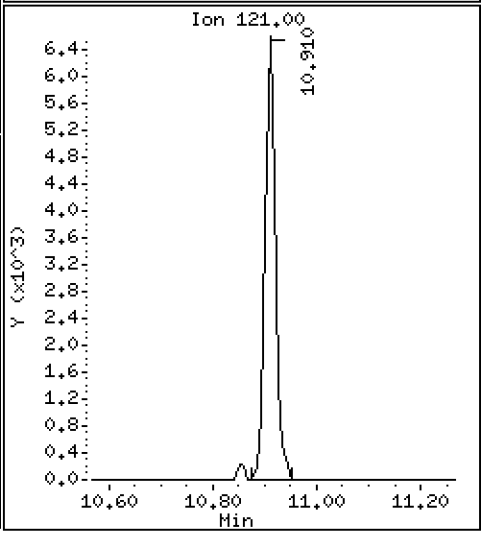


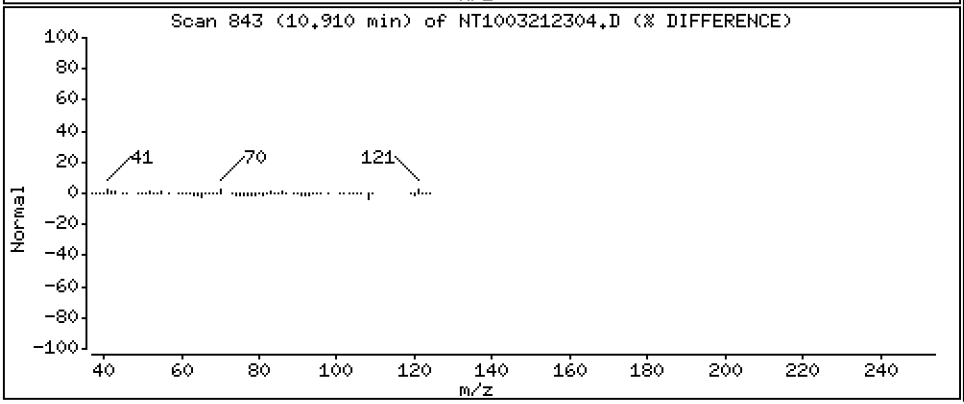












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

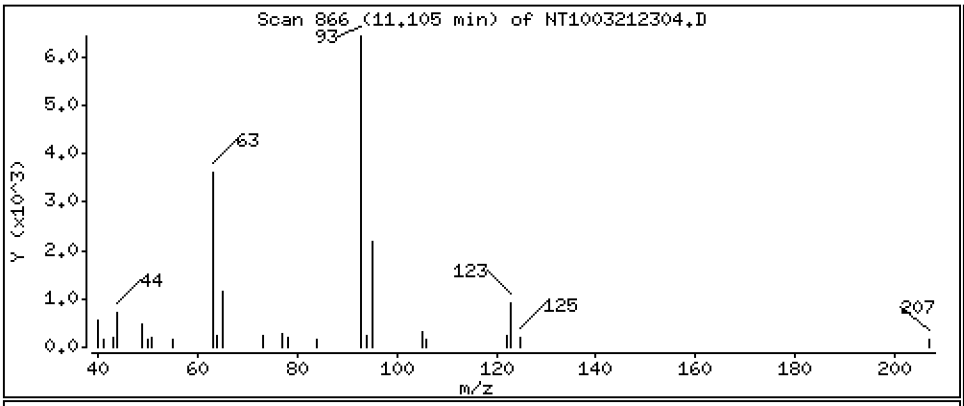
Operator: VTS

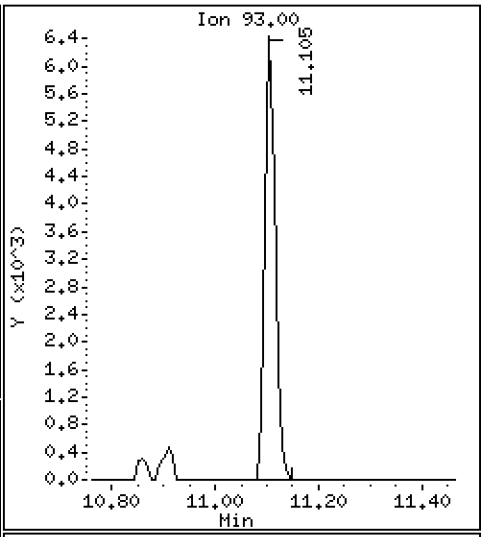
Column phase: ZB-5msi

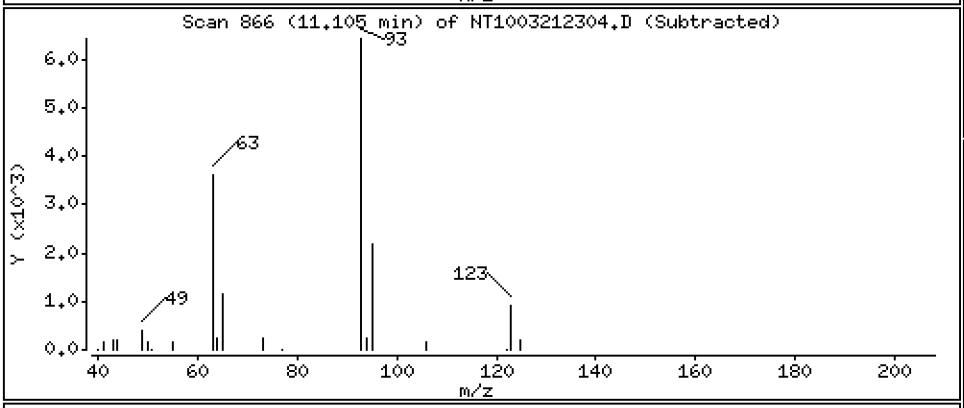
Column diameter: 0.25

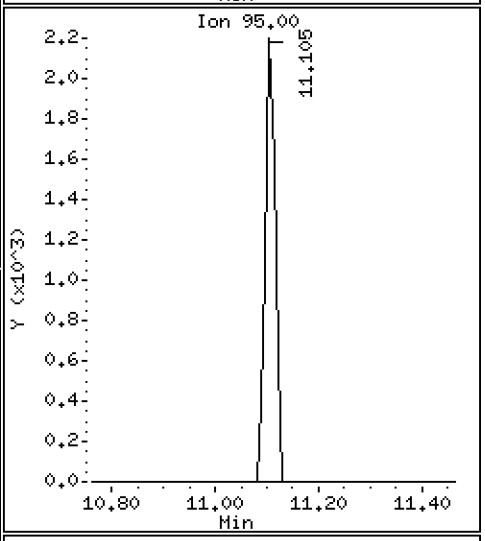
23 Bis(2-Chloroethoxy)methane

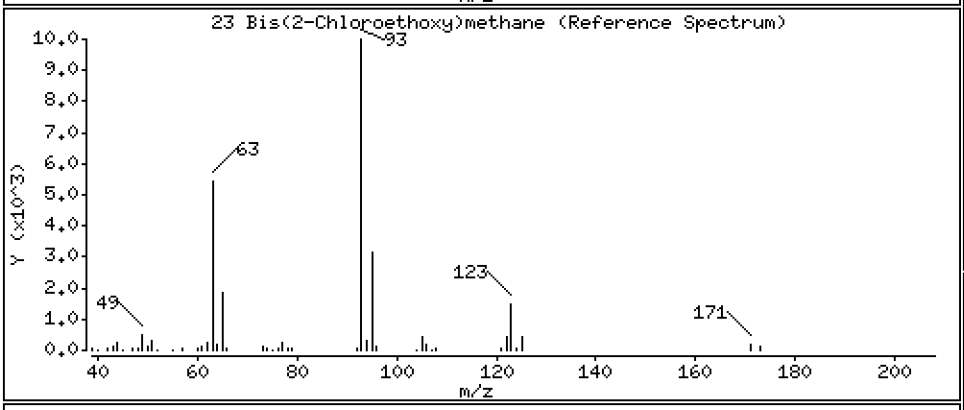
Concentration: 0.1906 ug/mL

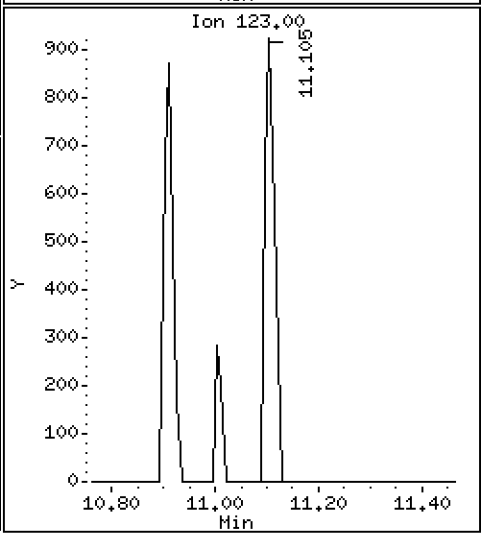


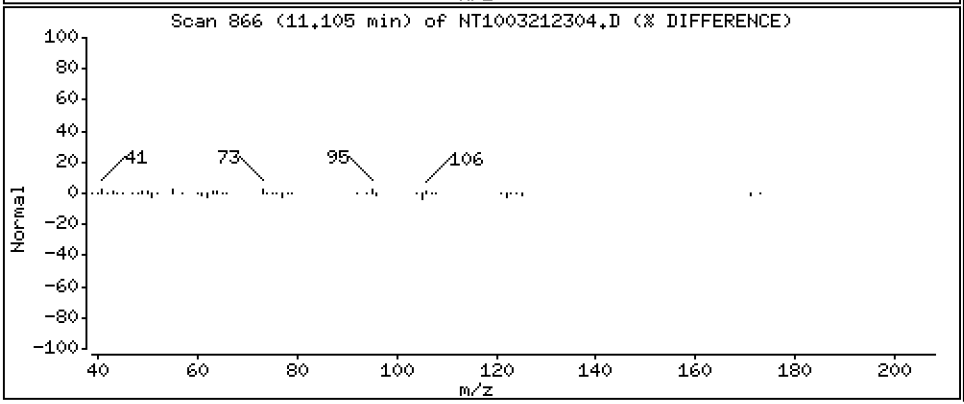












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

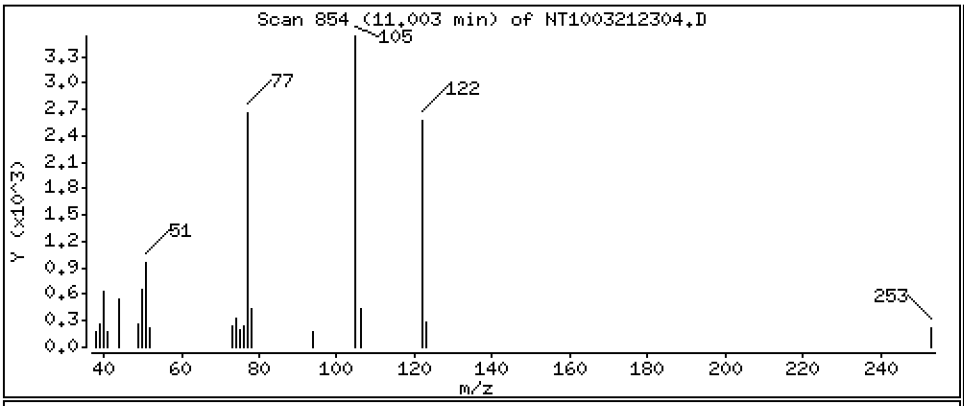
Operator: VTS

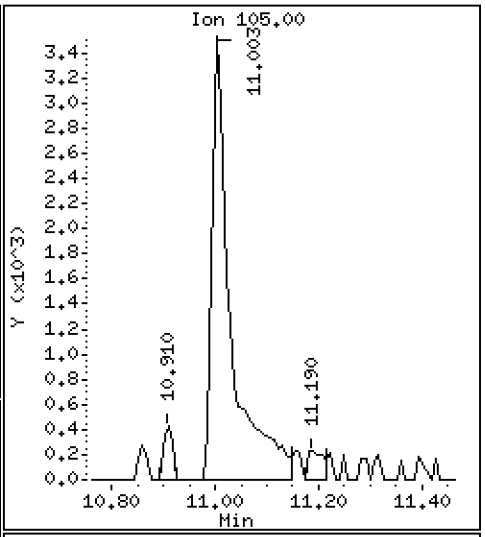
Column phase: ZB-5msi

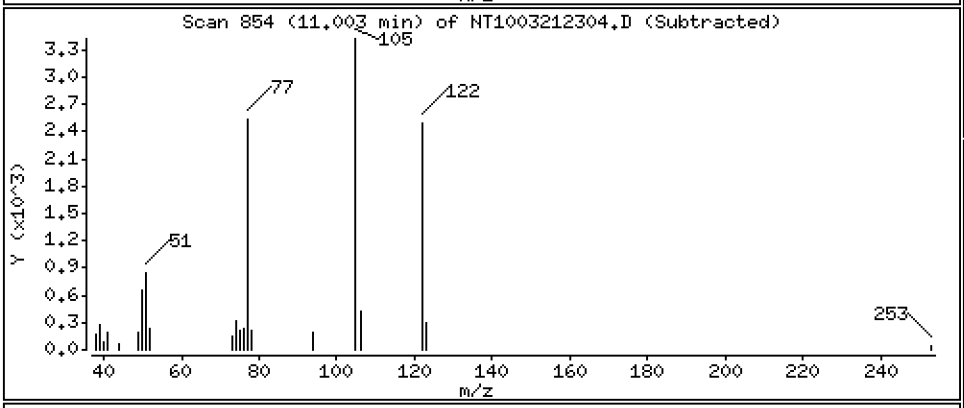
Column diameter: 0.25

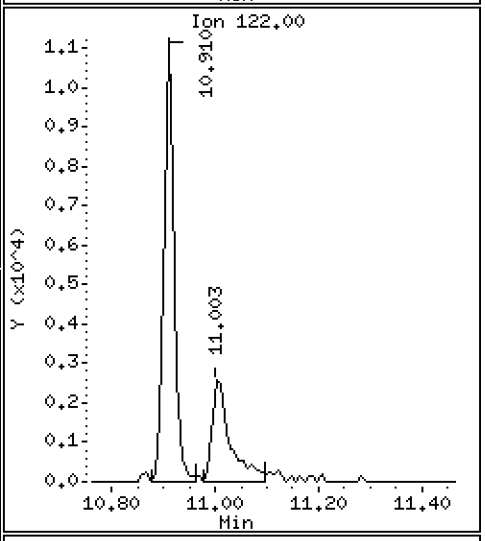
24 Benzoic acid

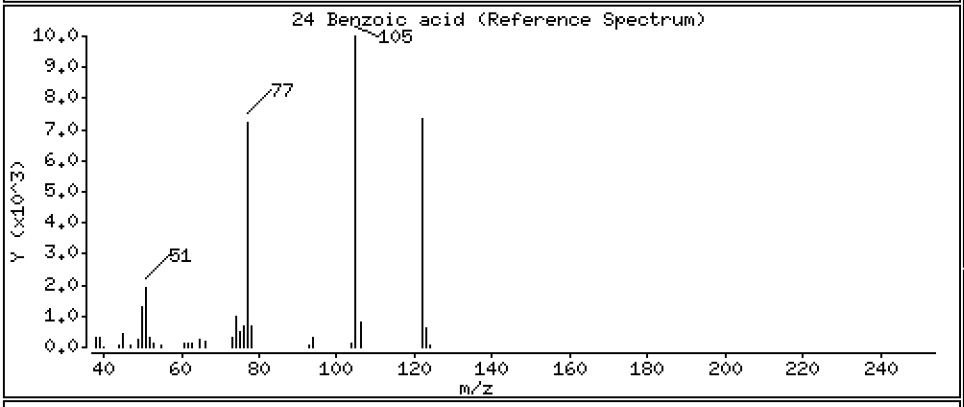
Concentration: 0.3172 ug/mL

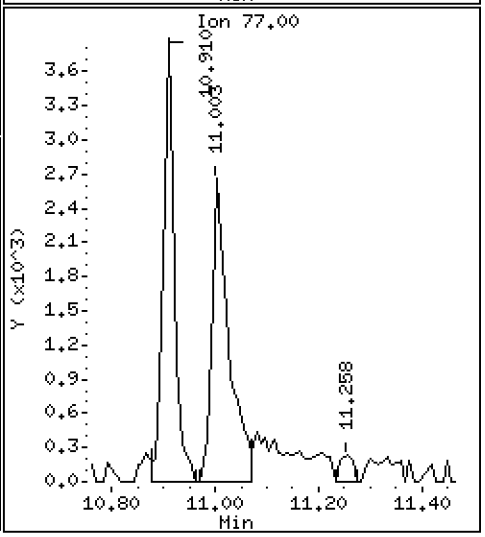


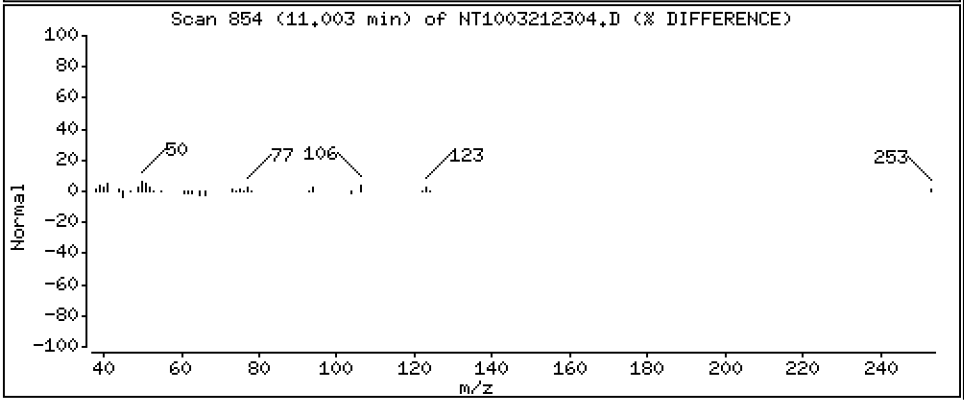












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

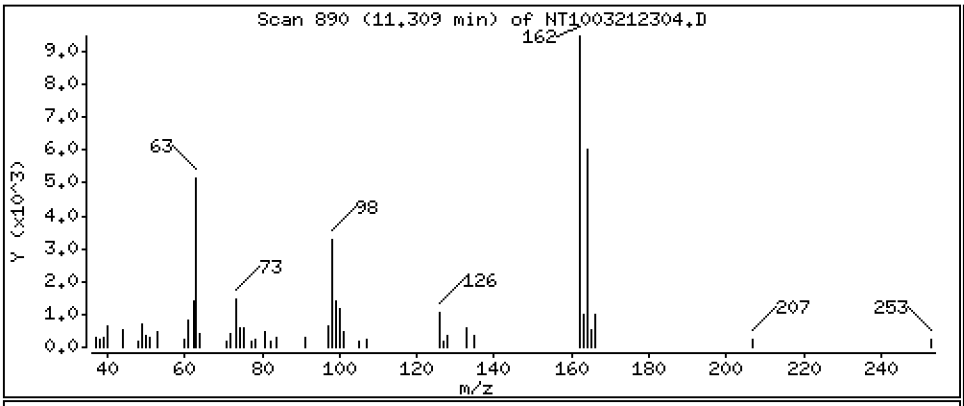
Operator: VTS

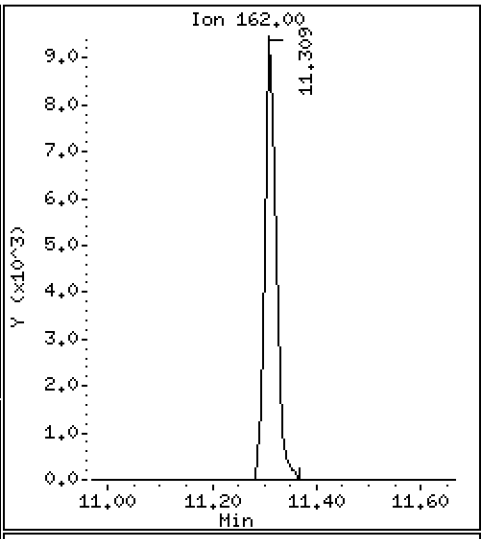
Column phase: ZB-5msi

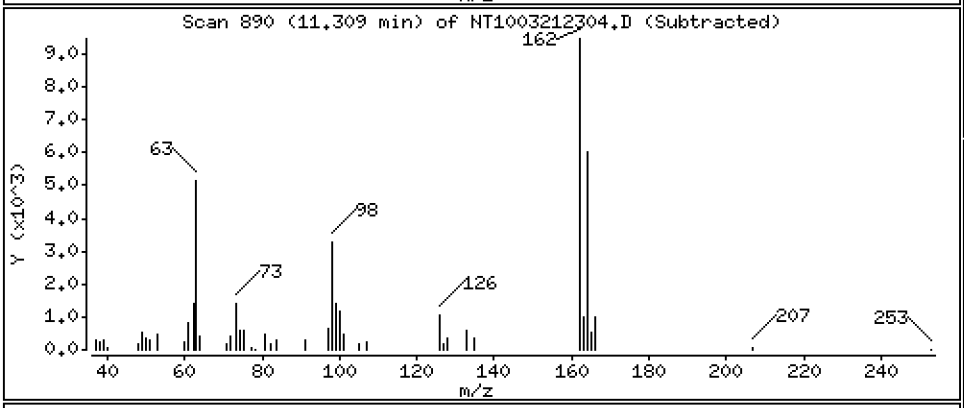
Column diameter: 0.25

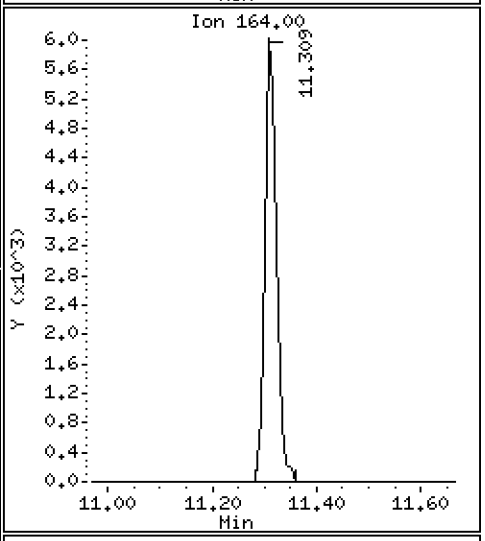
25 2,4-Dichlorophenol

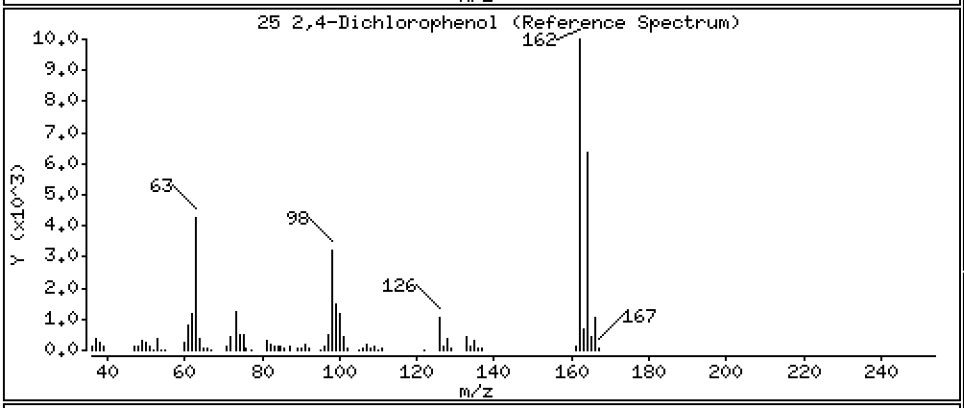
Concentration: 0.3625 ug/mL

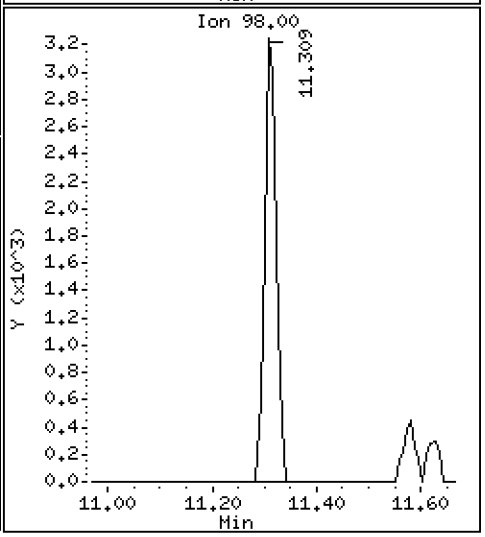


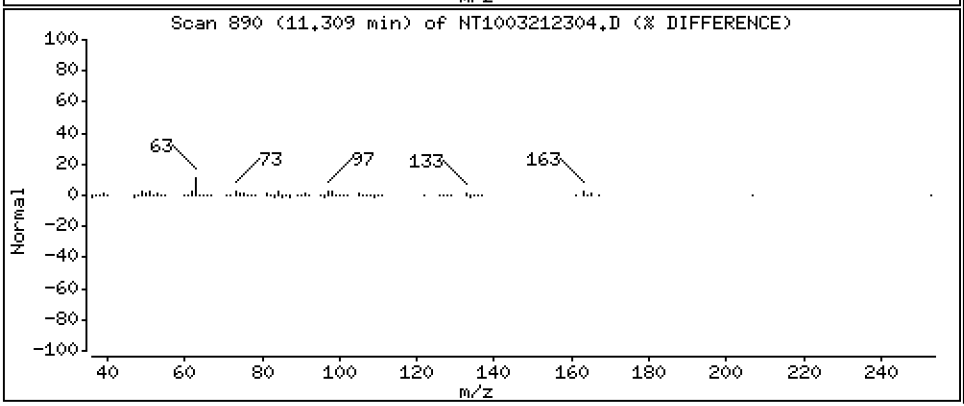












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

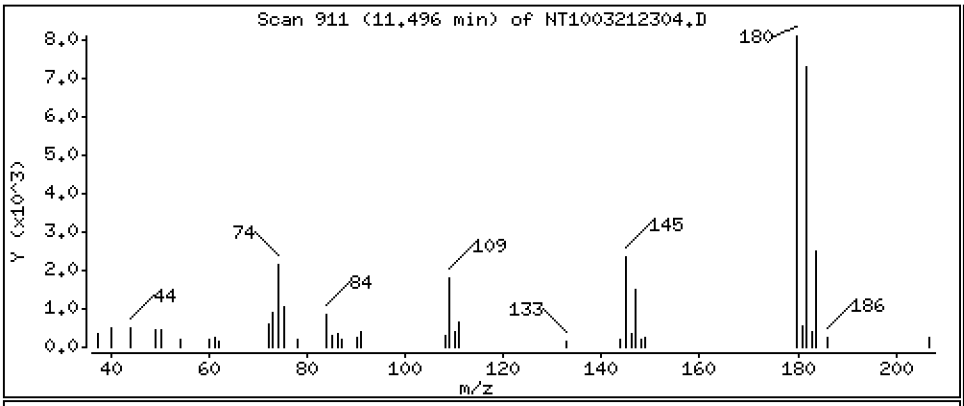
Operator: VTS

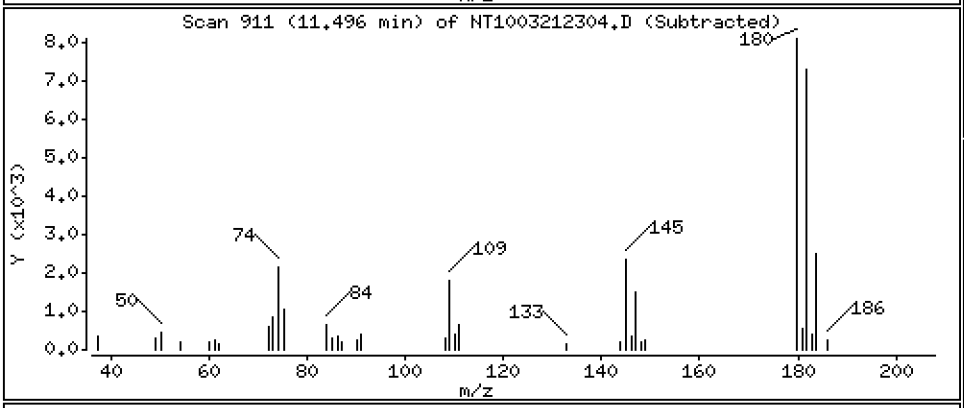
Column phase: ZB-5msi

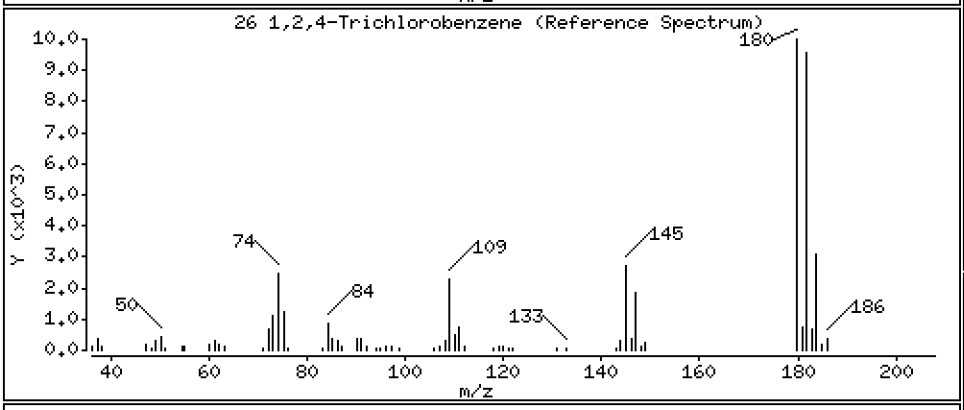
Column diameter: 0.25

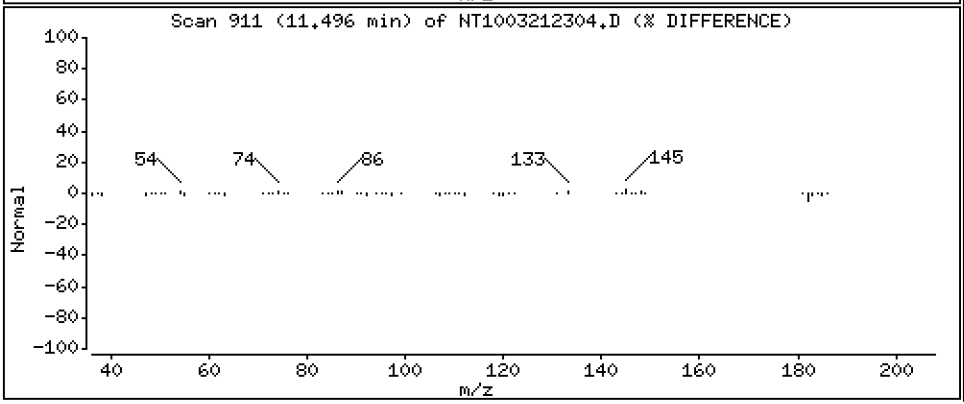
26 1,2,4-Trichlorobenzene

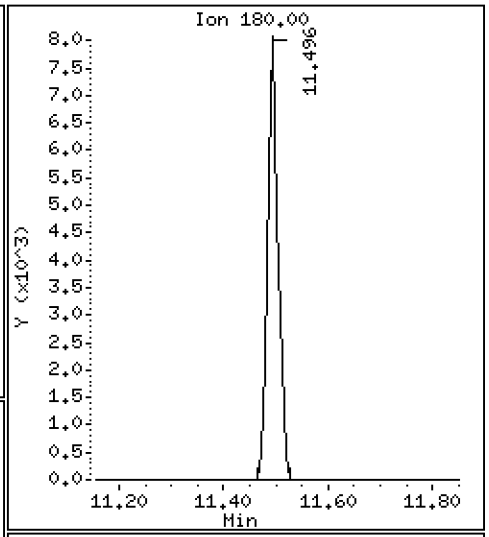
Concentration: 0.2288 ug/mL

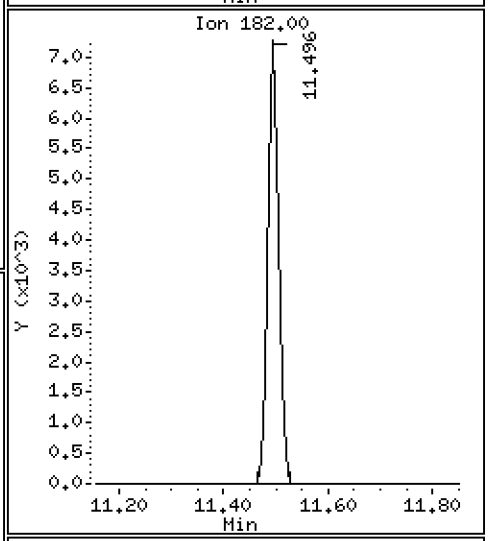


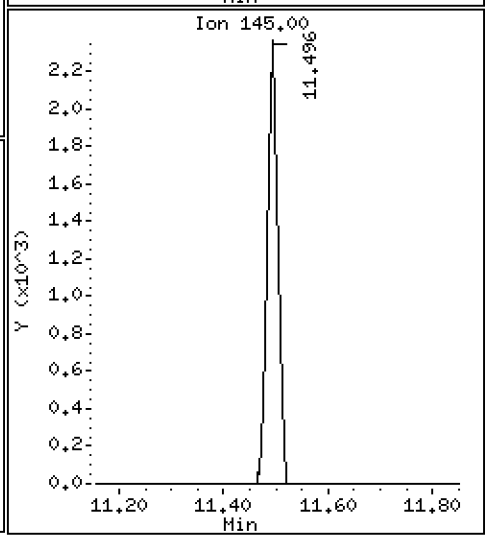












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

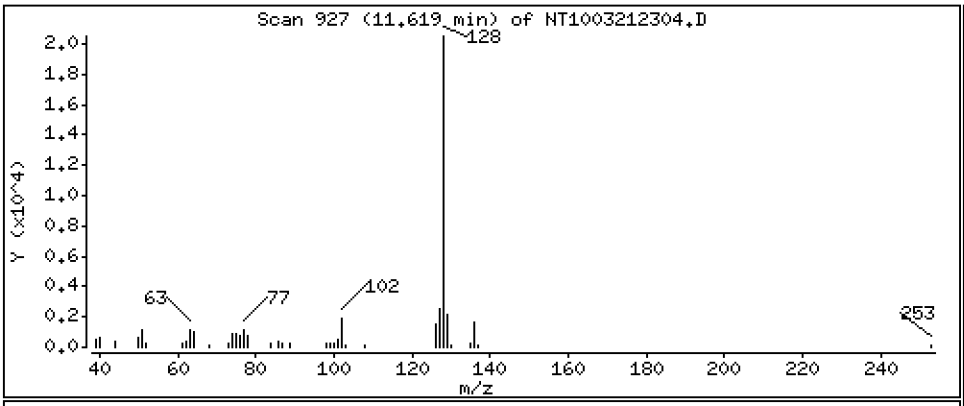
Operator: VTS

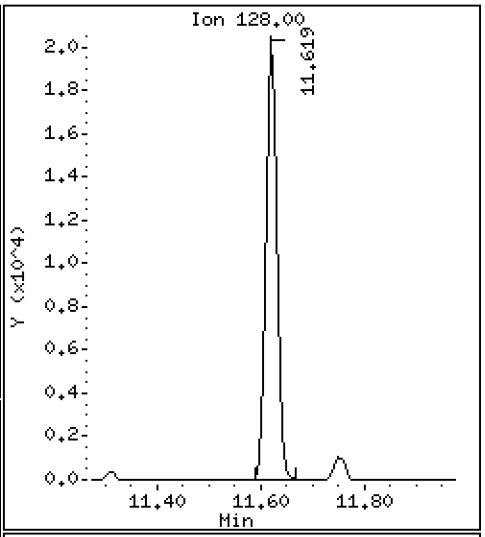
Column phase: ZB-5msi

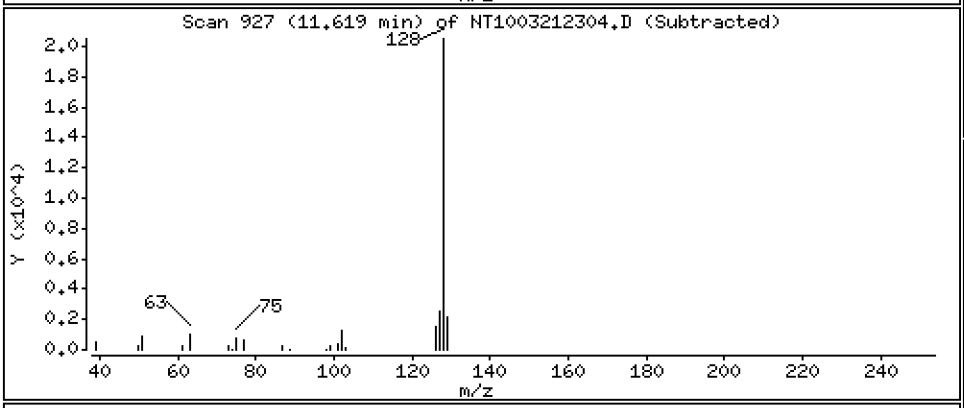
Column diameter: 0.25

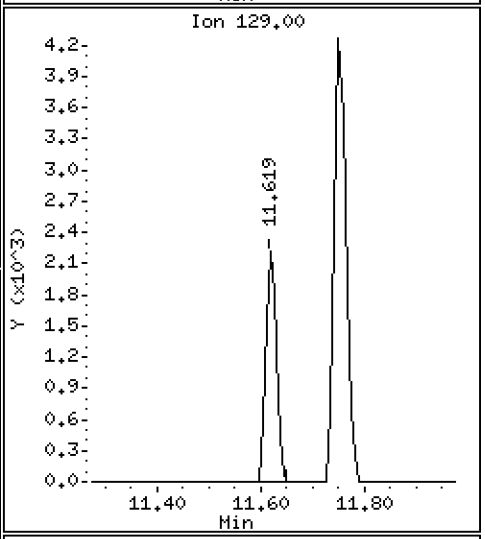
28 Naphthalene

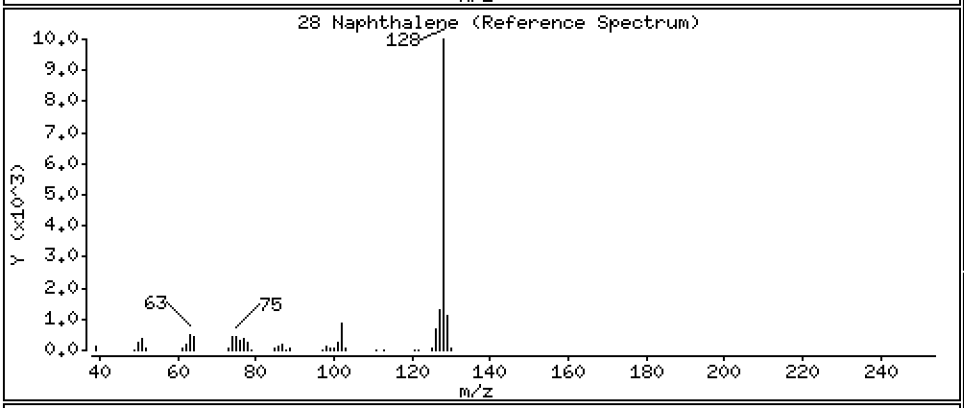
Concentration: 0.2105 ug/mL

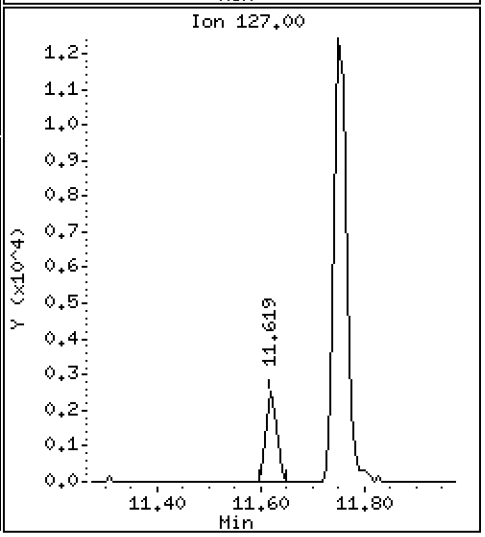


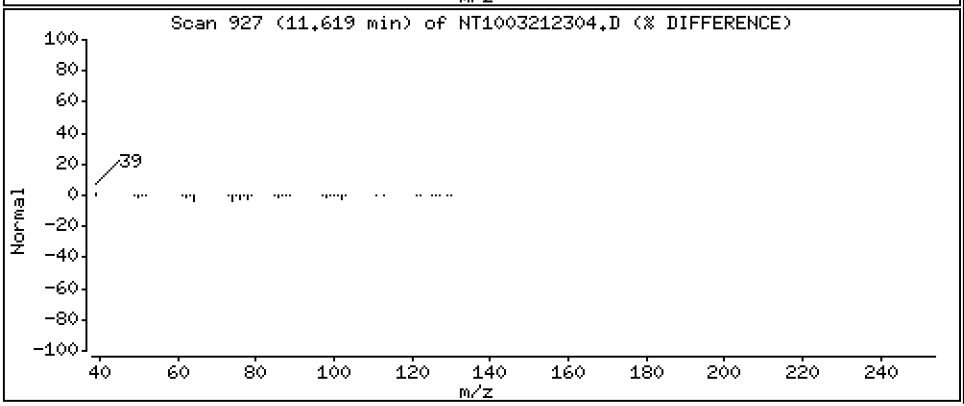












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212304.D

Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

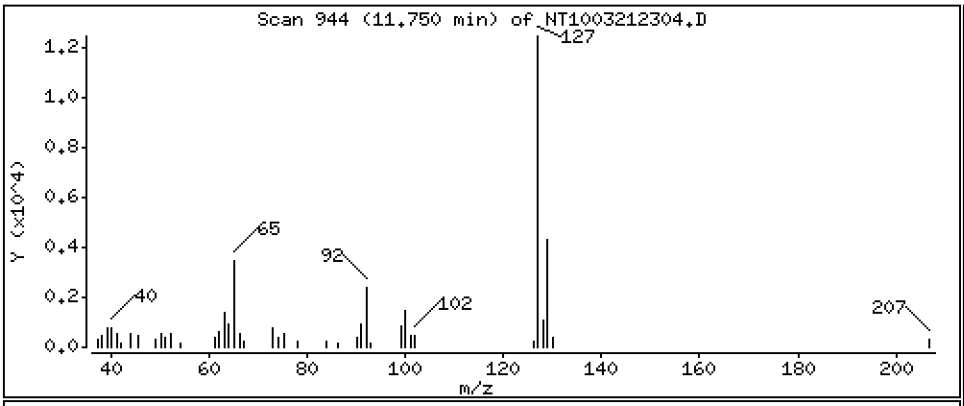
Operator: VTS

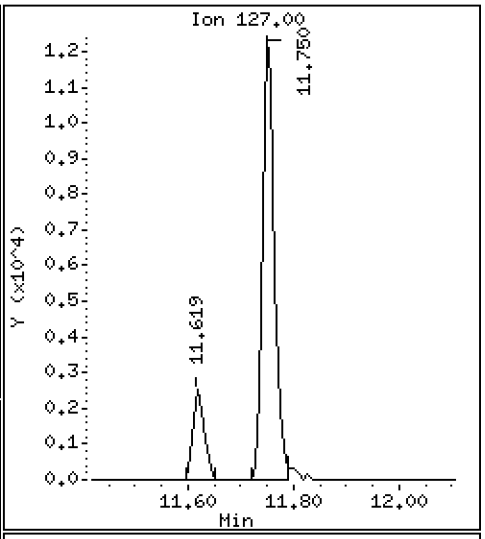
Column phase: ZB-5msi

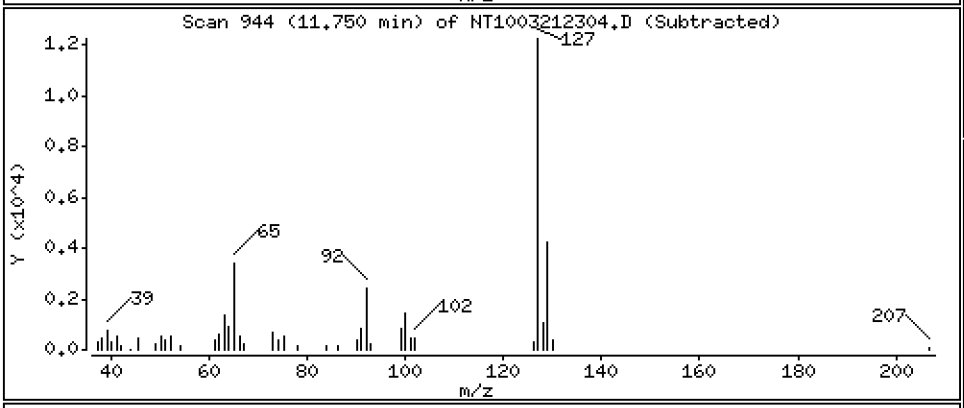
Column diameter: 0.25

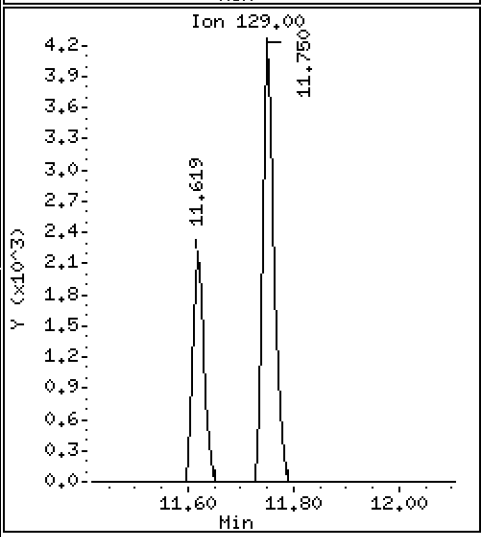
29 4-Chloroaniline

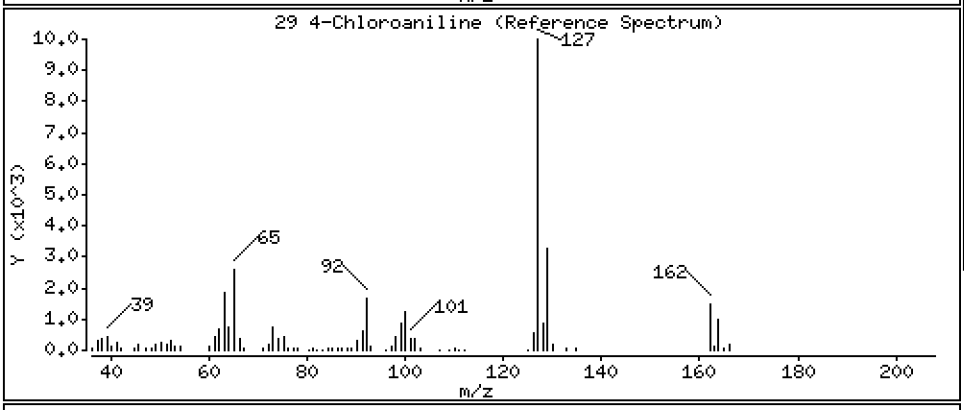
Concentration: 0.3395 ug/mL

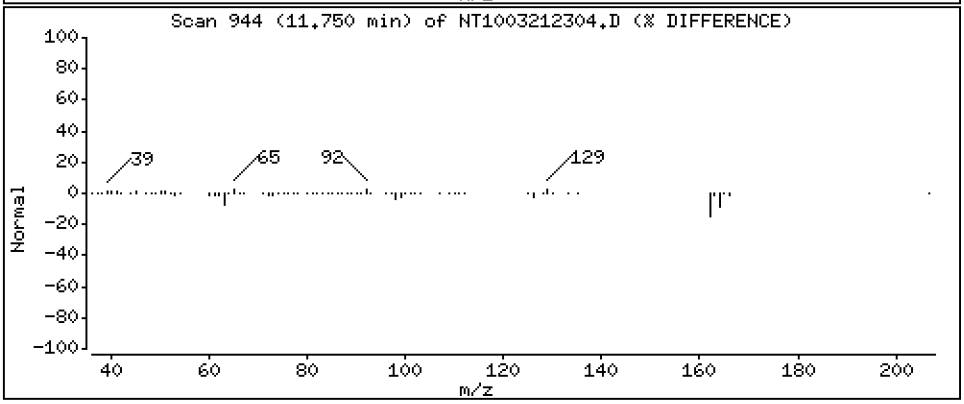












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

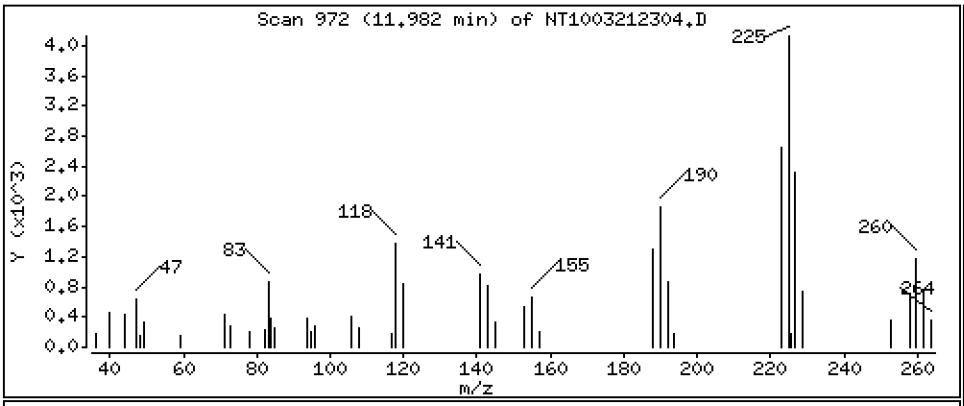
Operator: VTS

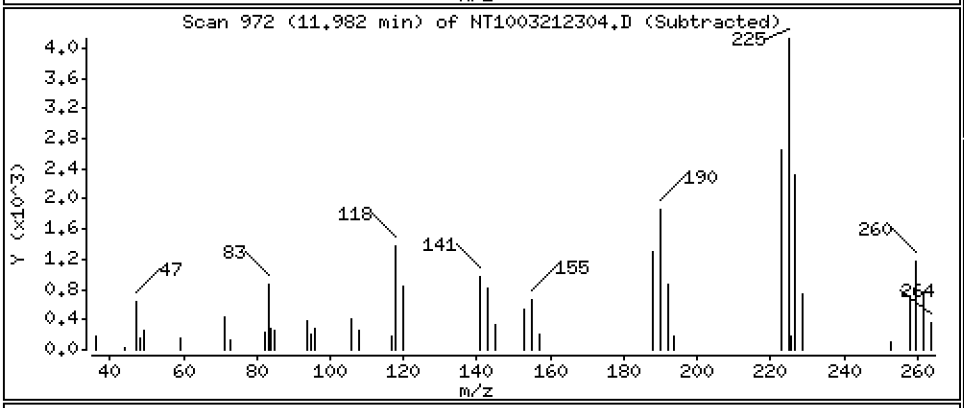
Column phase: ZB-5msi

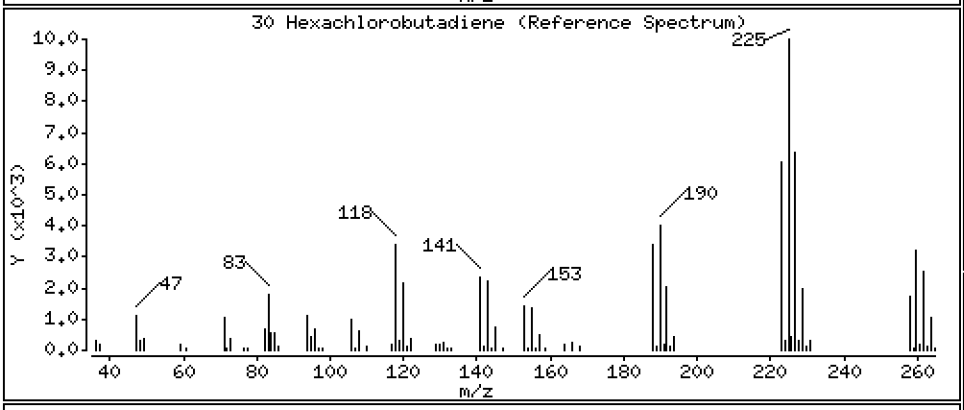
Column diameter: 0.25

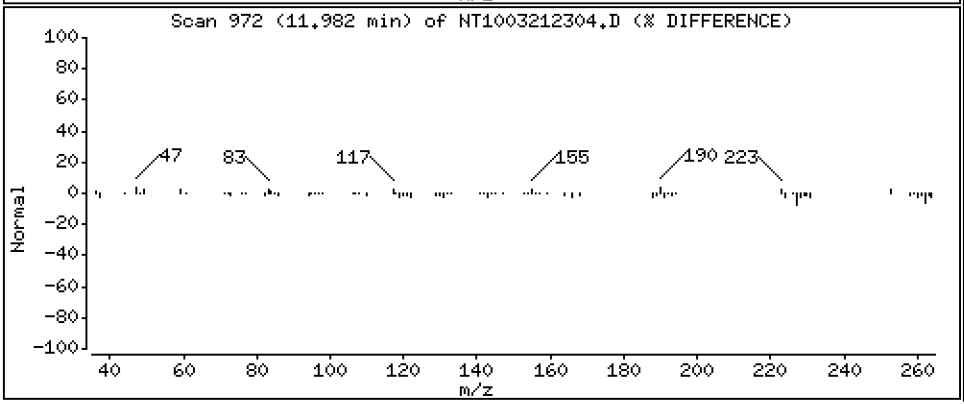
30 Hexachlorobutadiene

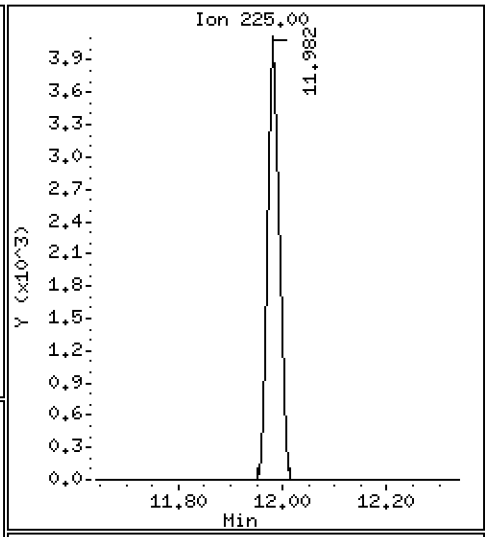
Concentration: 0.2201 ug/mL

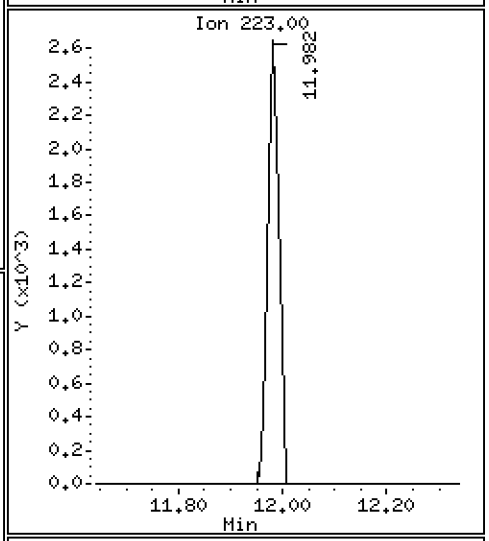


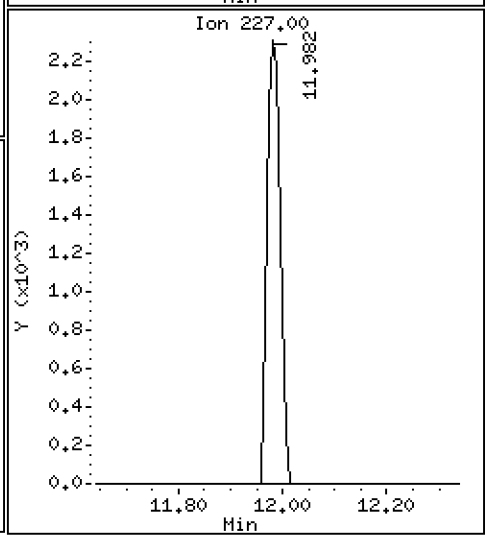












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212304.D

Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

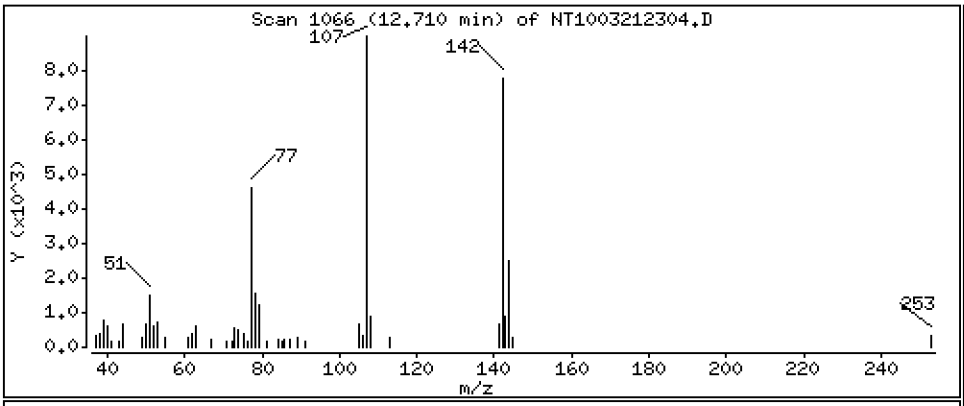
Operator: VTS

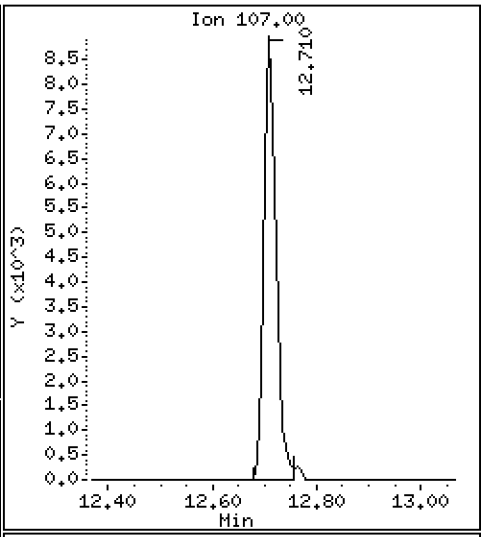
Column phase: ZB-5msi

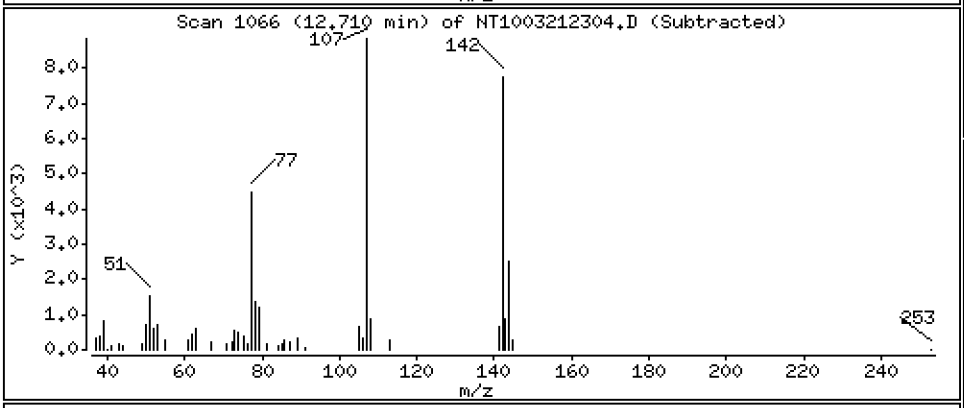
Column diameter: 0.25

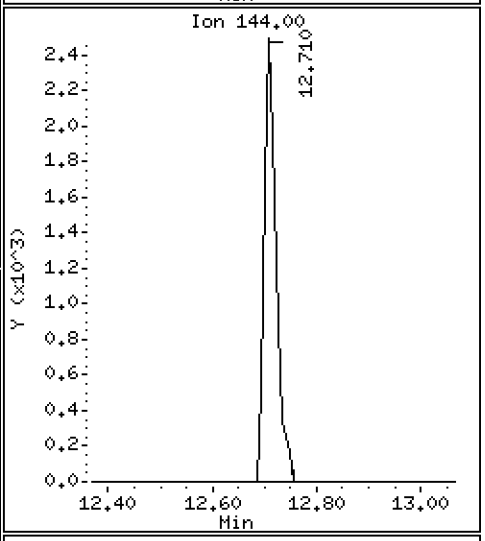
31 4-Chloro-3-methylphenol

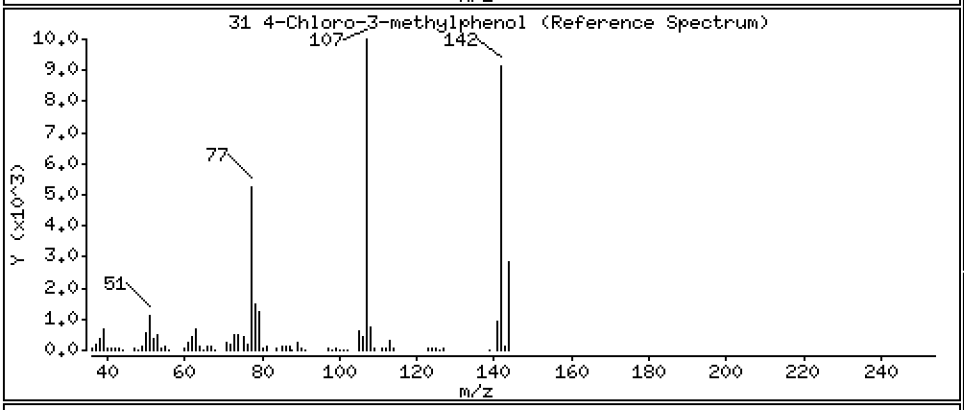
Concentration: 0.3208 ug/mL

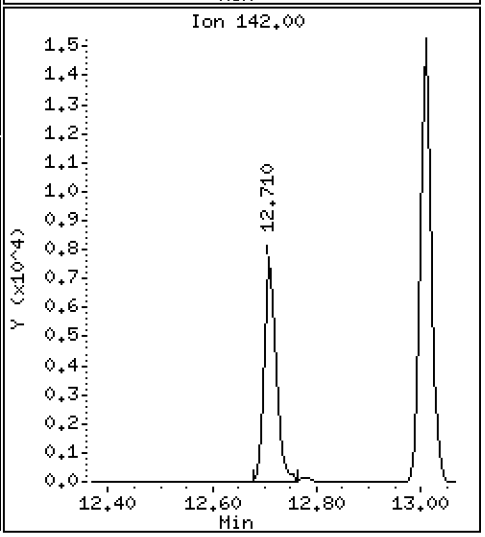


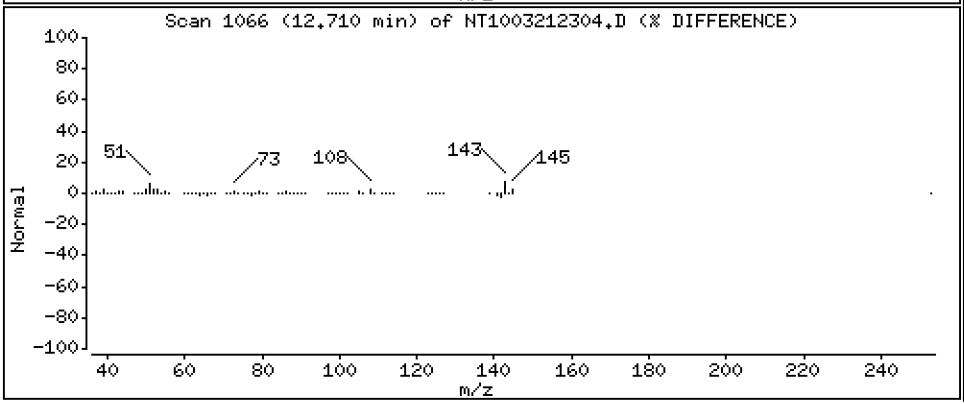












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

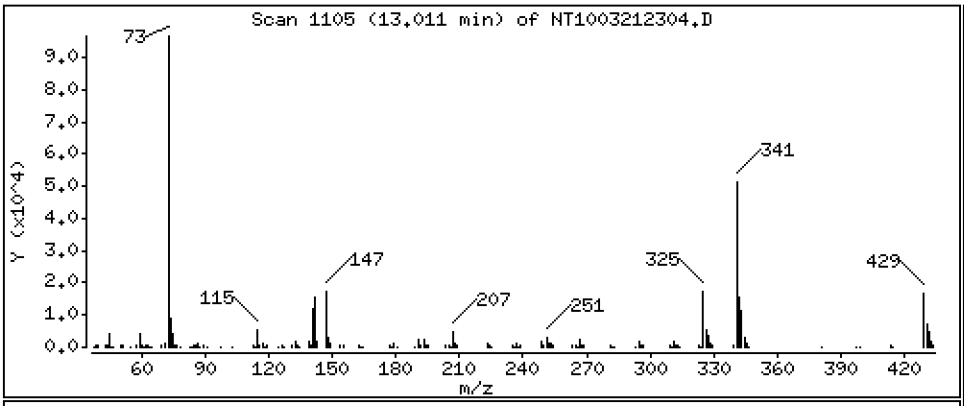
Operator: VTS

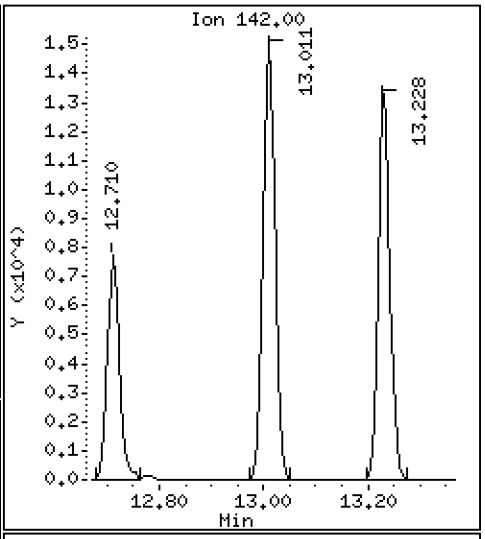
Column phase: ZB-5msi

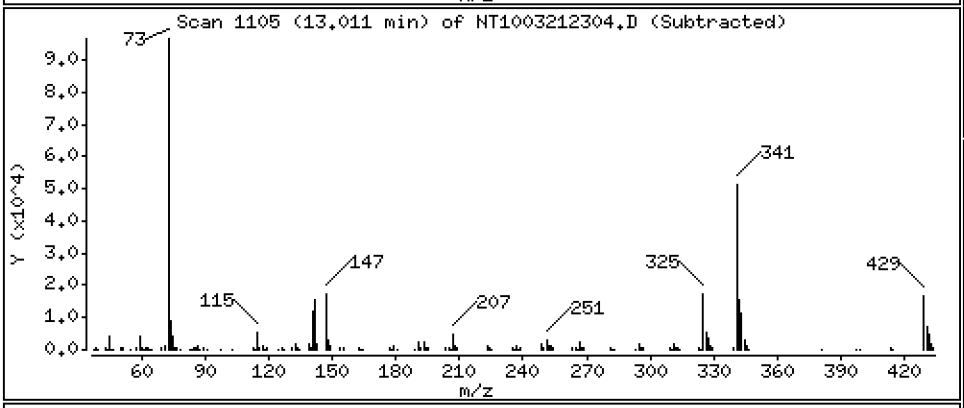
Column diameter: 0.25

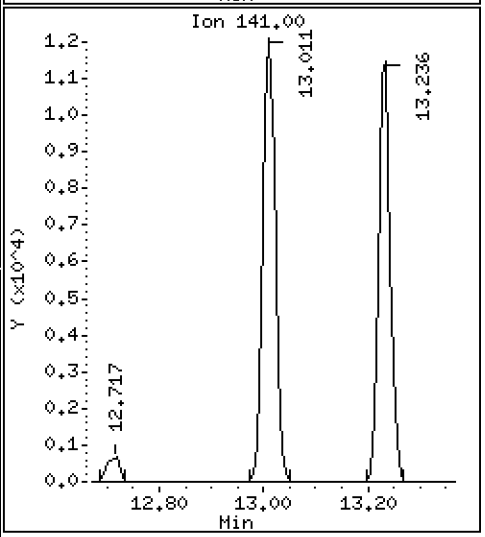
32 2-Methylnaphthalene

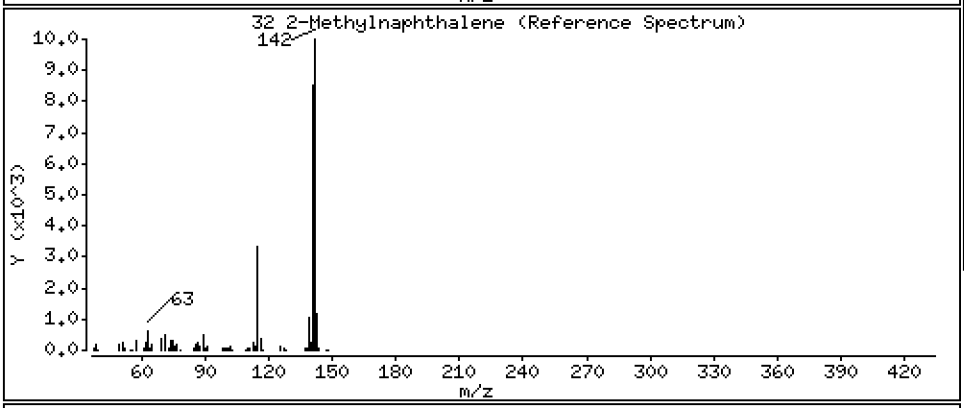
Concentration: 0.2120 ug/mL

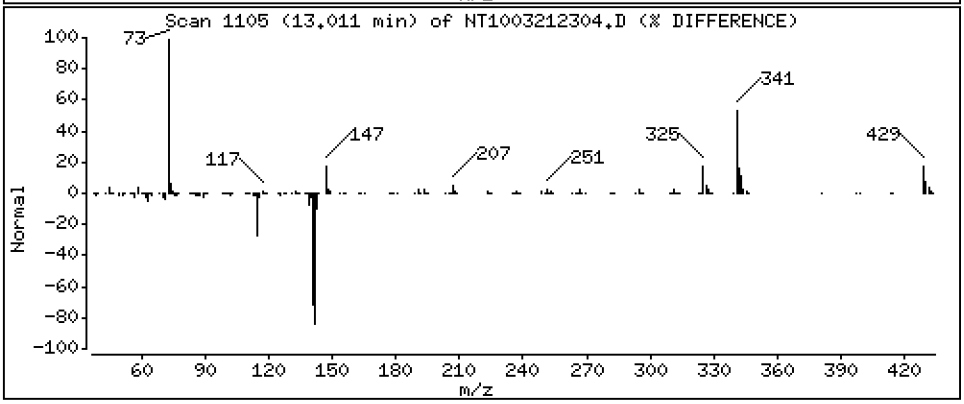












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212304.D

Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

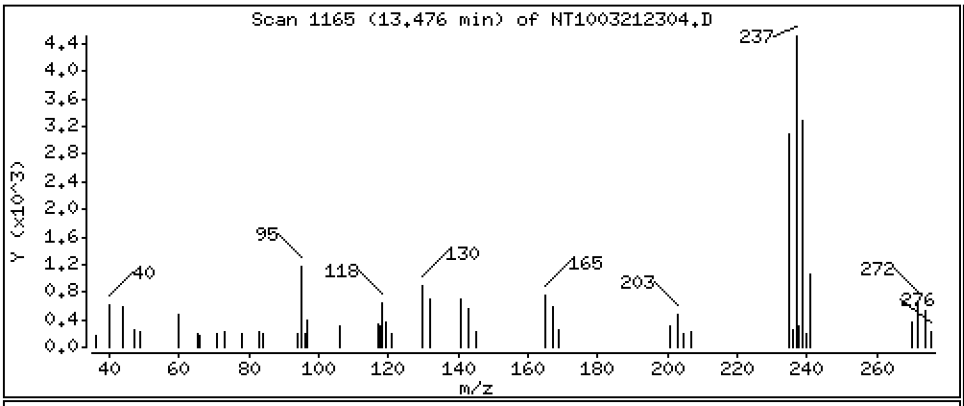
Operator: VTS

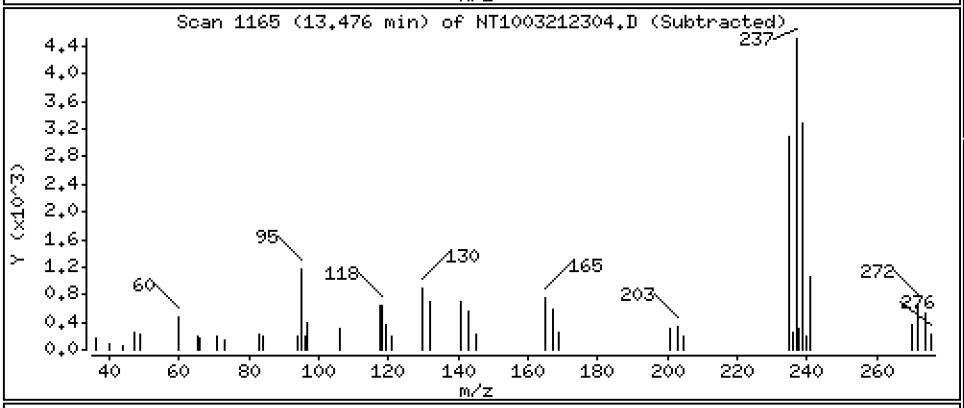
Column phase: ZB-5msi

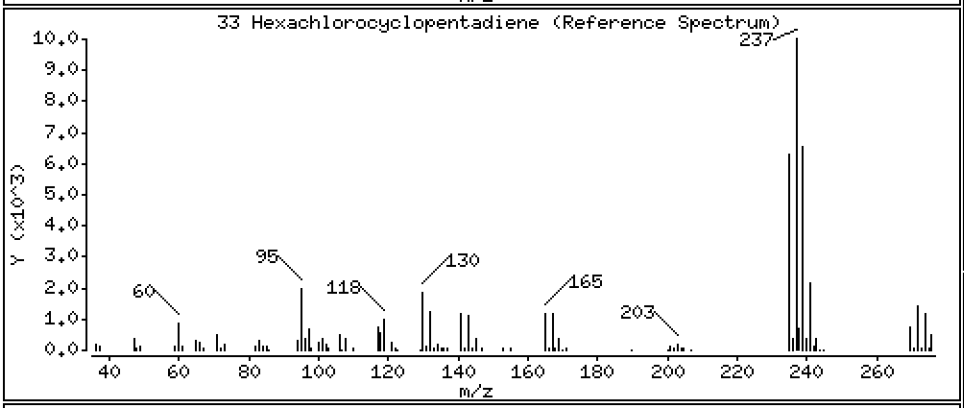
Column diameter: 0.25

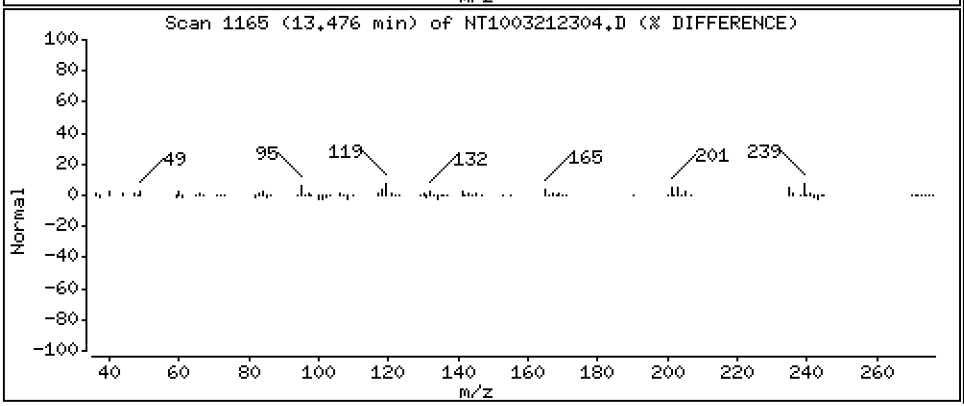
33 Hexachlorocyclopentadiene

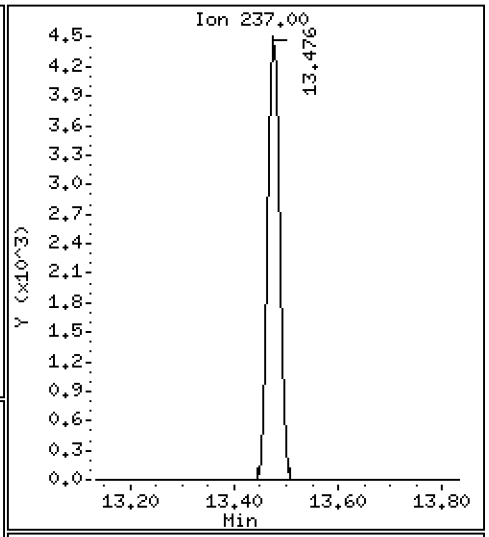
Concentration: 0.2521 ug/mL

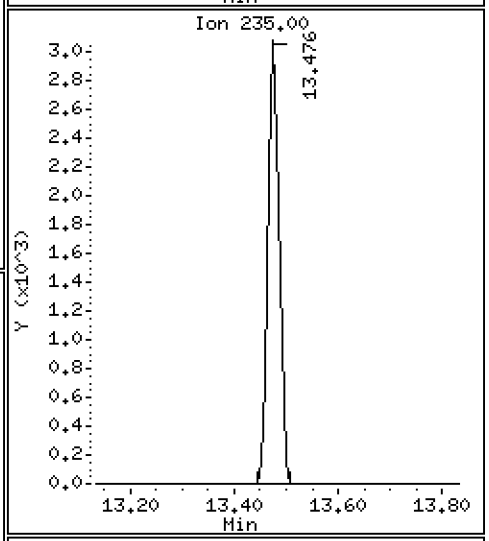


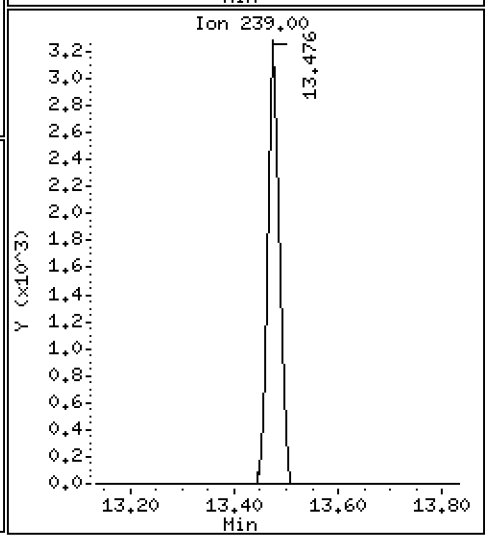












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

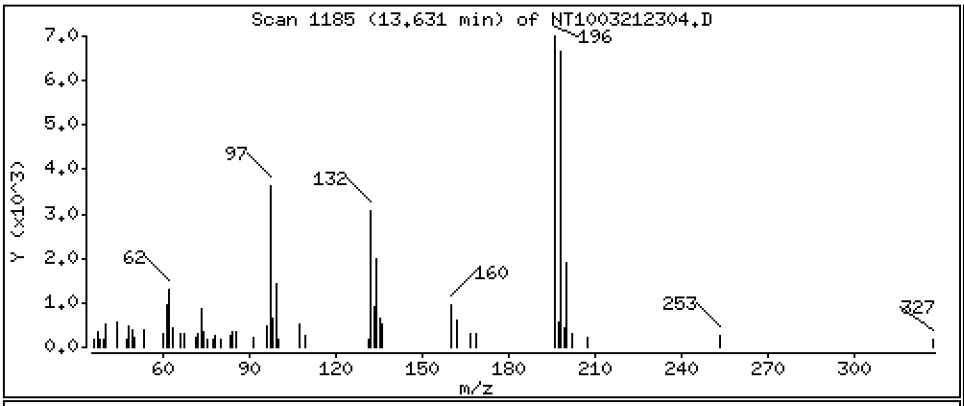
Operator: VTS

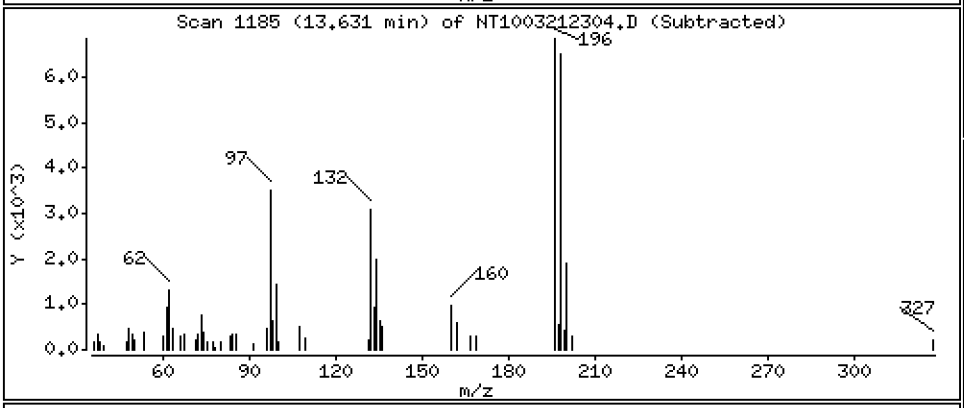
Column phase: ZB-5msi

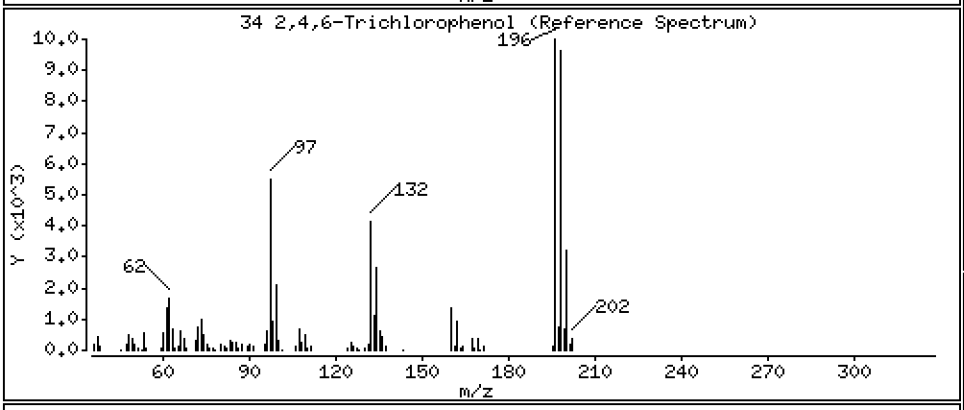
Column diameter: 0.25

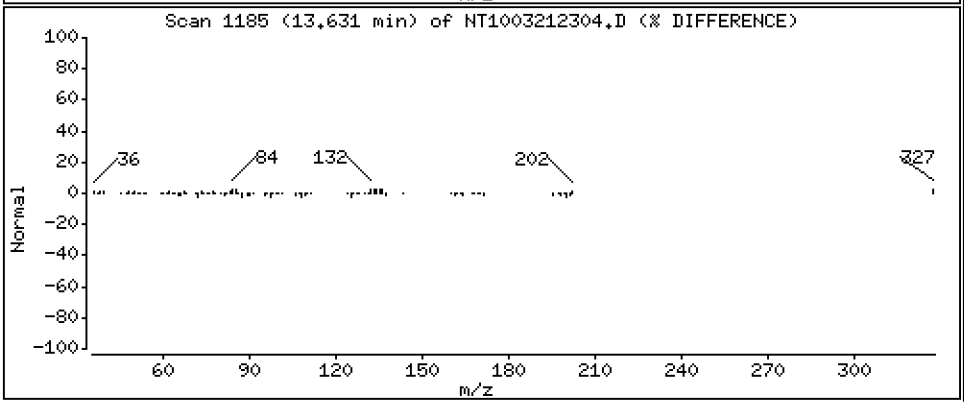
34 2,4,6-Trichlorophenol

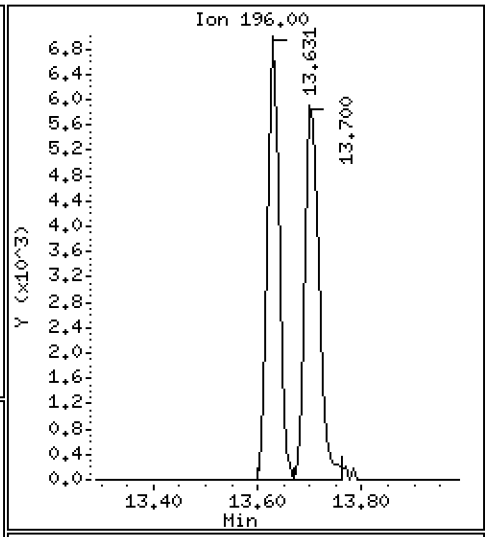
Concentration: 0.3445 ug/mL

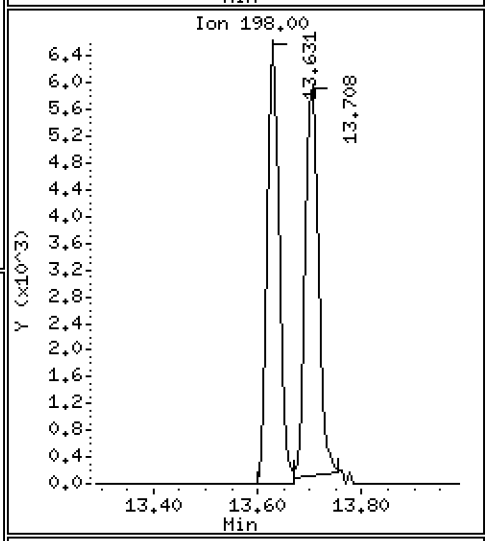


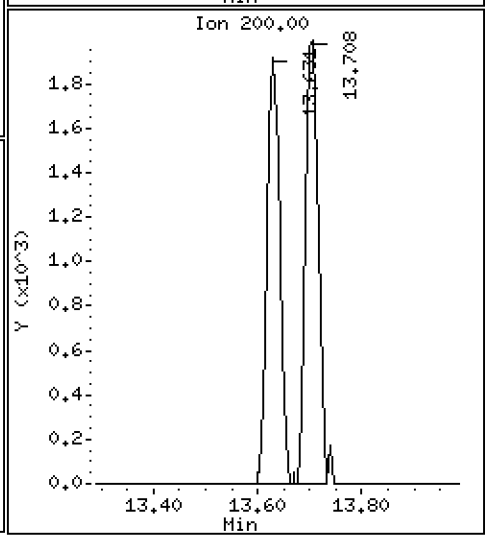












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212304.D

Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

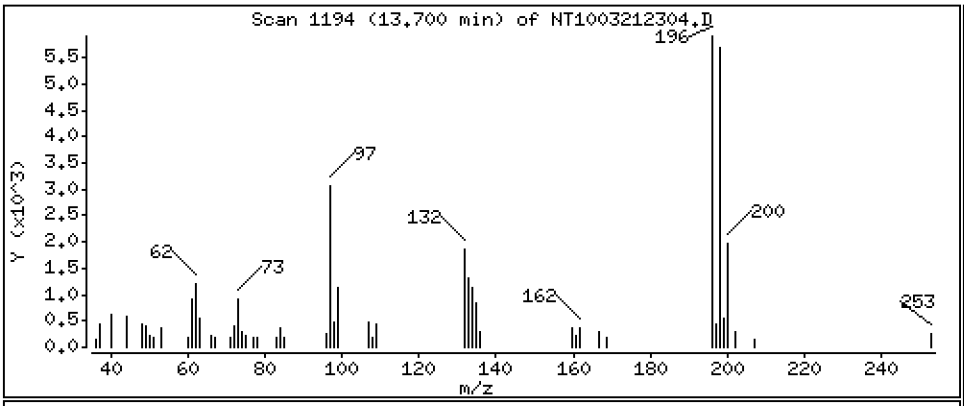
Operator: VTS

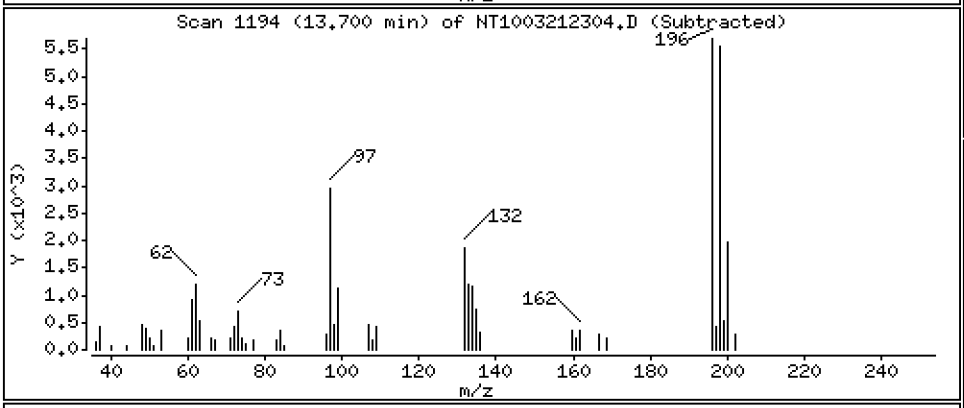
Column phase: ZB-5msi

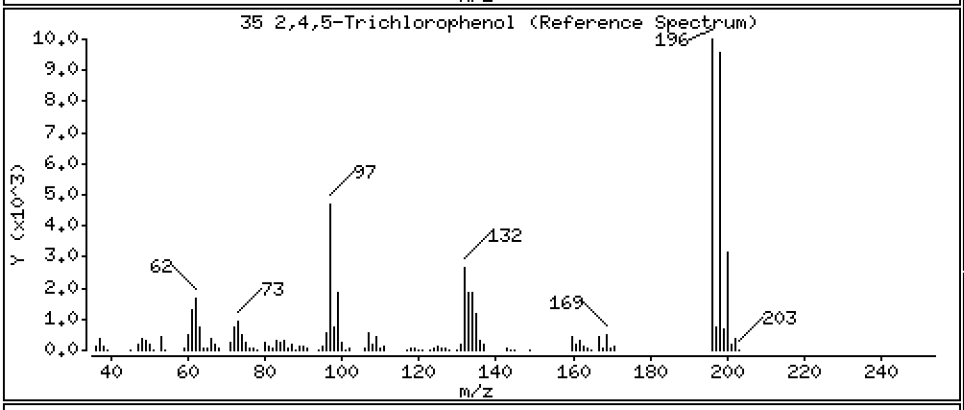
Column diameter: 0.25

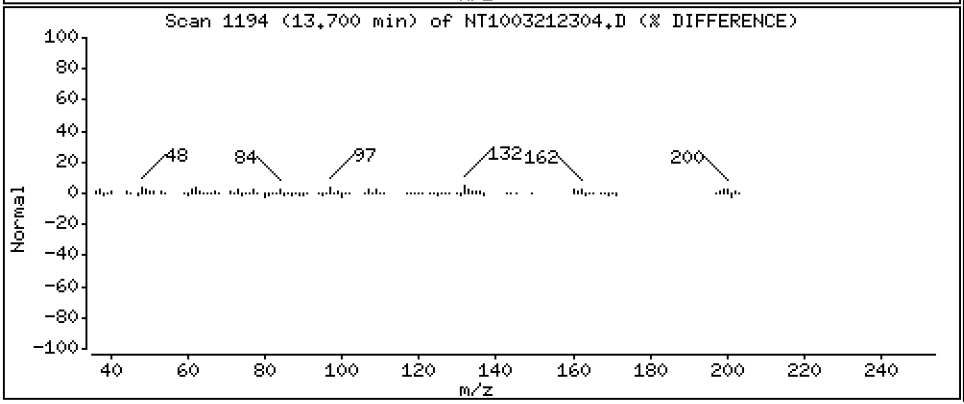
35 2,4,5-Trichlorophenol

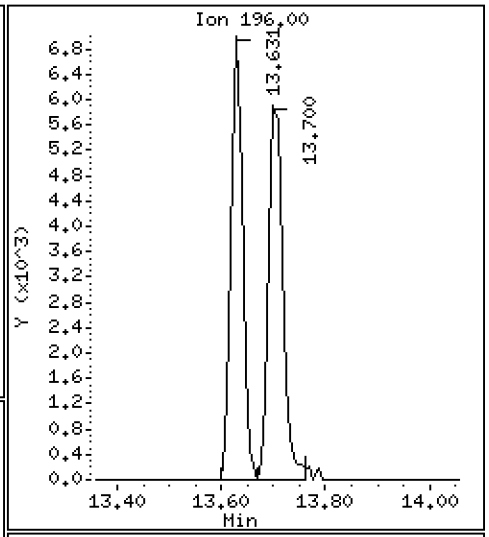
Concentration: 0.3299 ug/mL

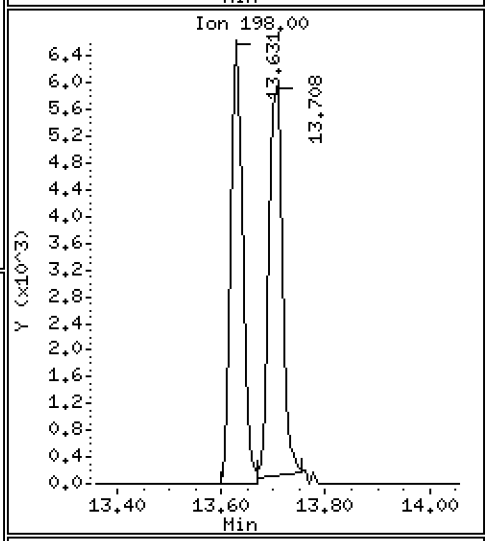


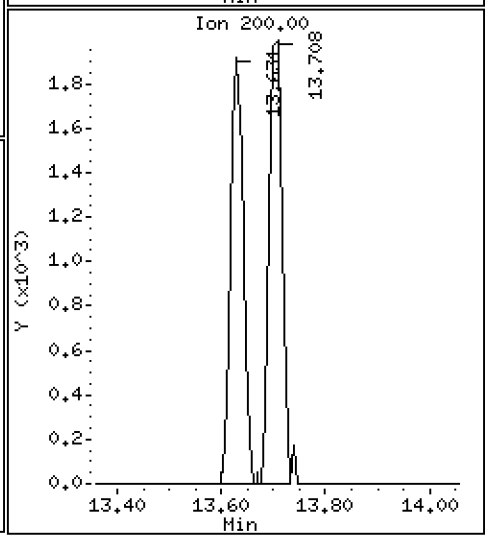












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212304.D

Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

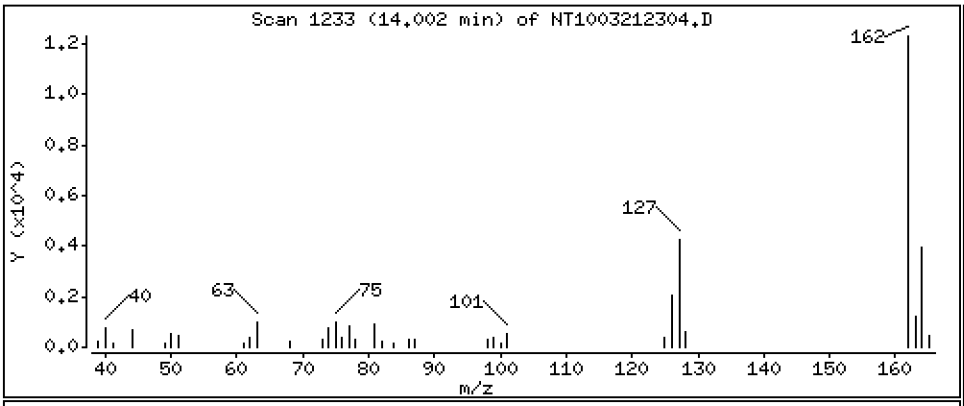
Operator: VTS

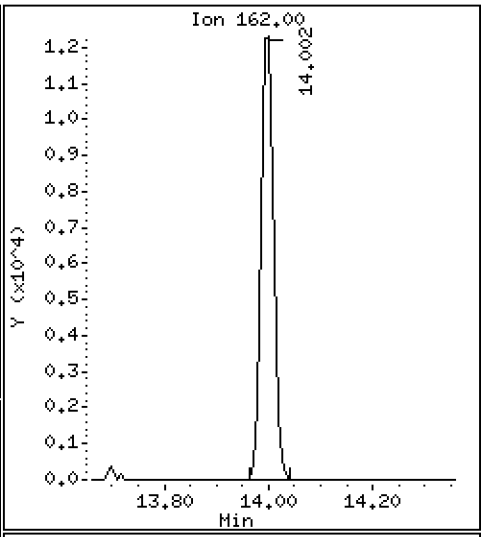
Column phase: ZB-5msi

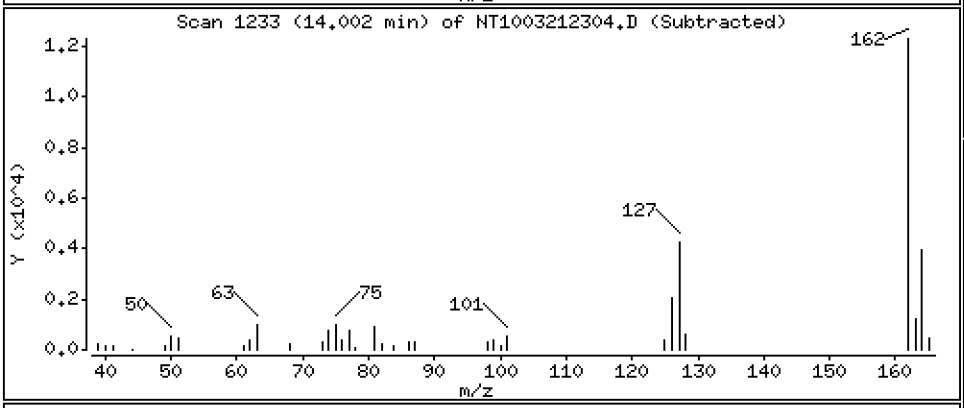
Column diameter: 0.25

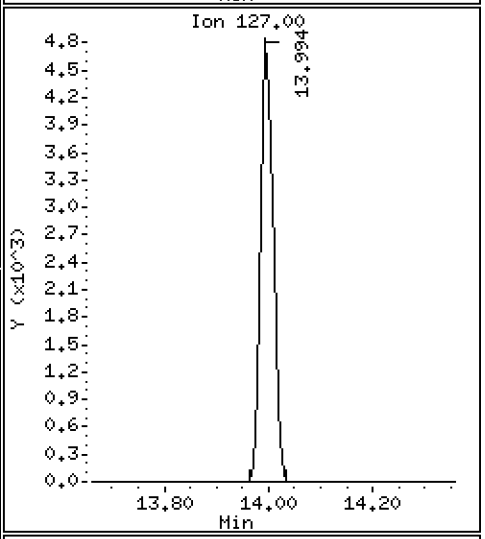
37 2-Chloronaphthalene

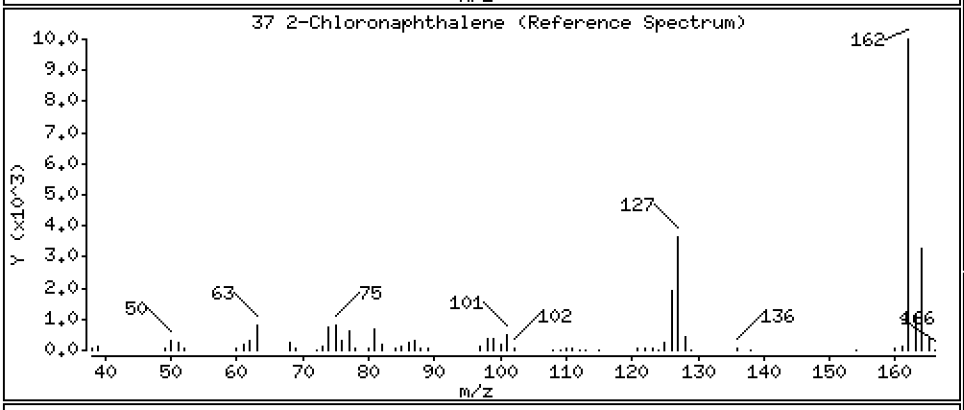
Concentration: 0.2060 ug/mL

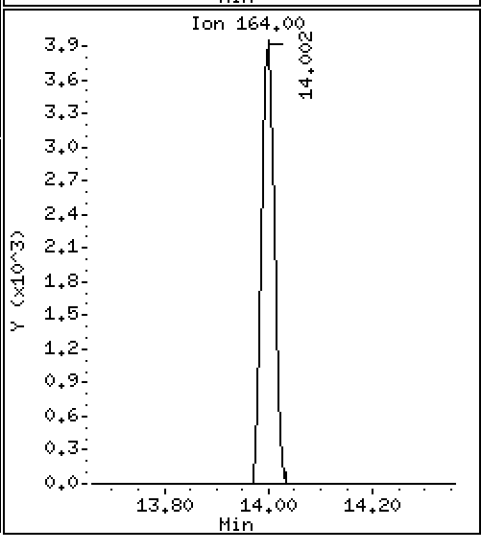


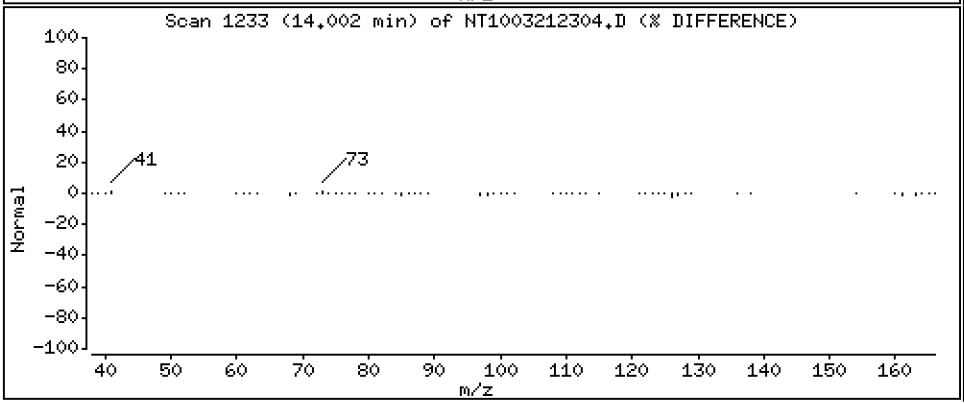












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

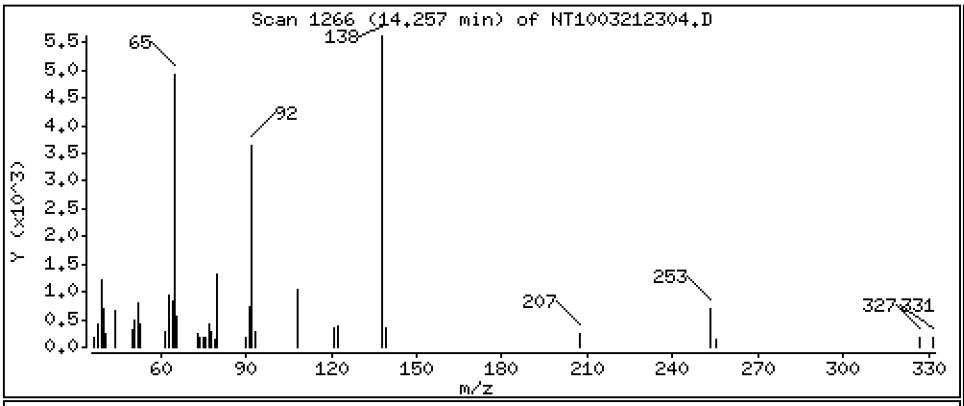
Operator: VTS

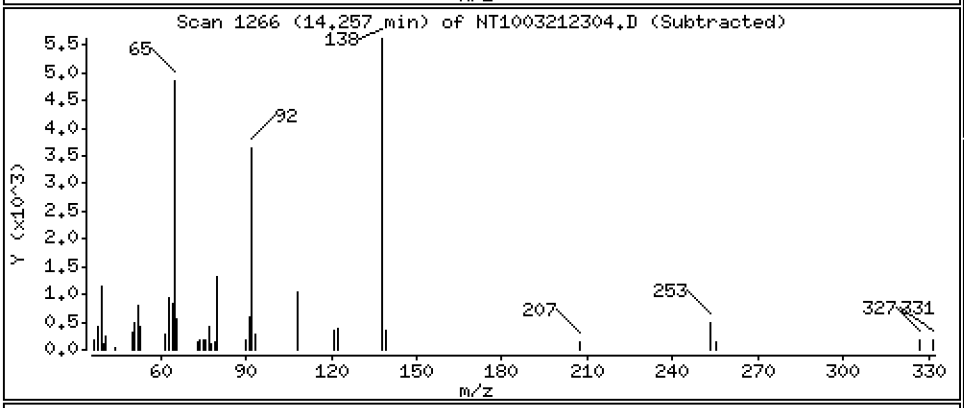
Column phase: ZB-5msi

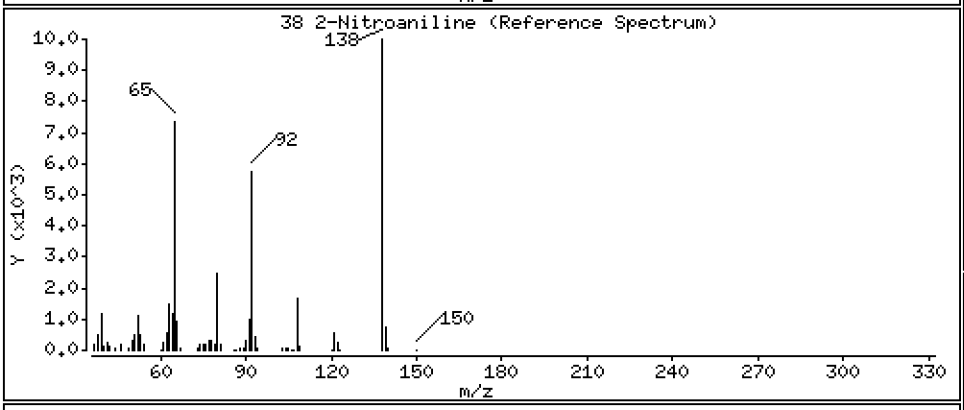
Column diameter: 0.25

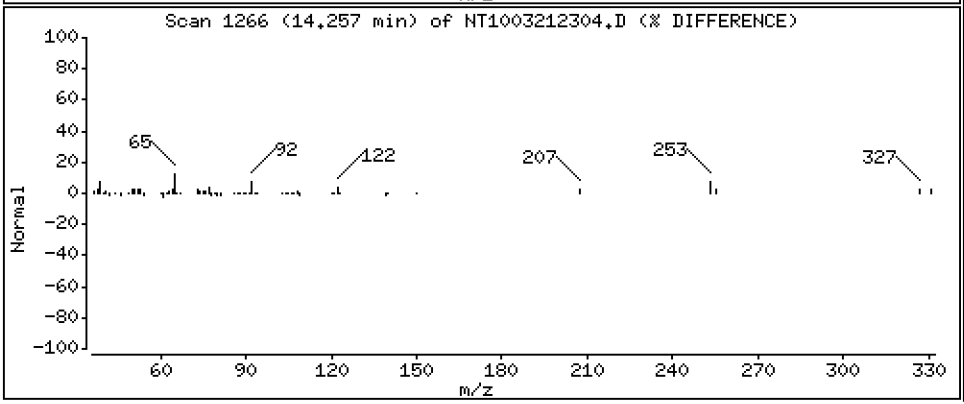
38 2-Nitroaniline

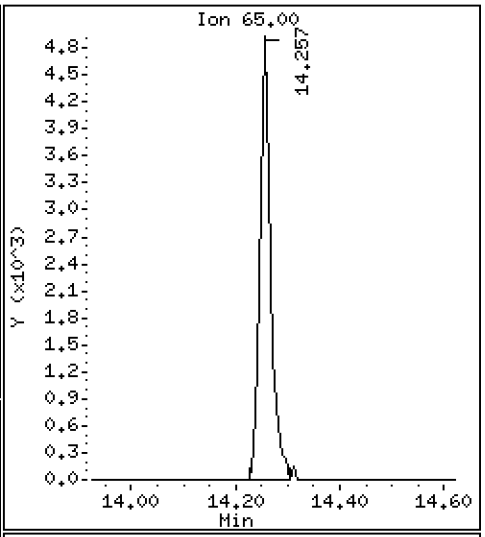
Concentration: 0.2646 ug/mL

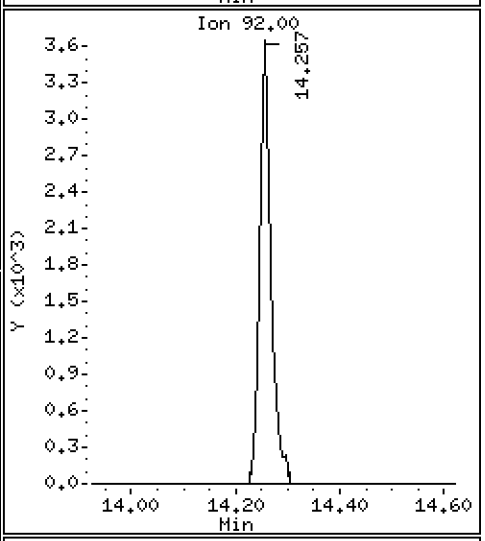


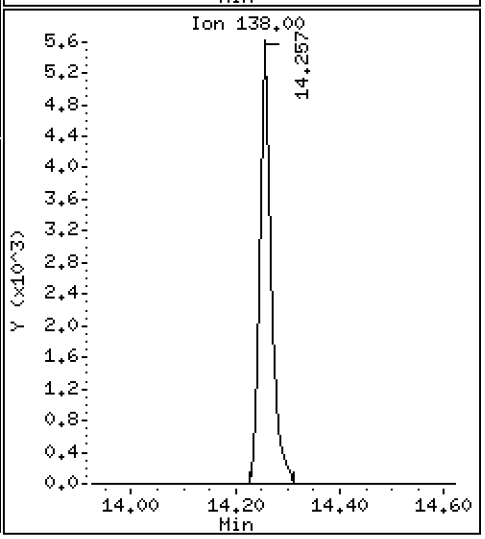












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

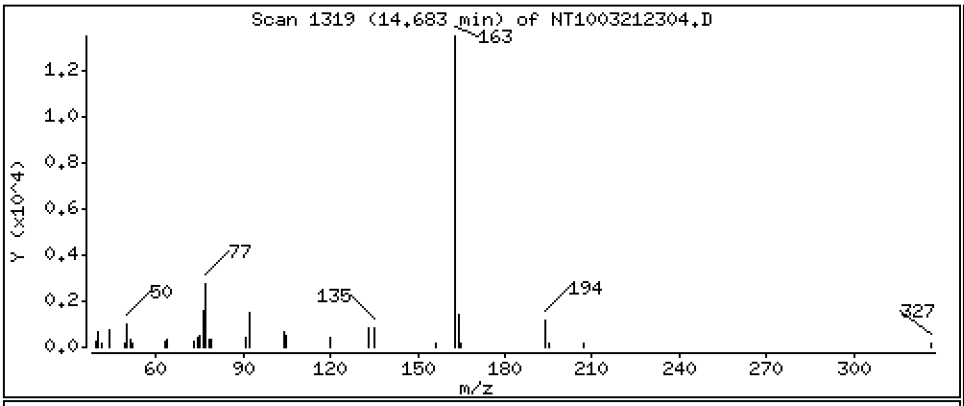
Operator: VTS

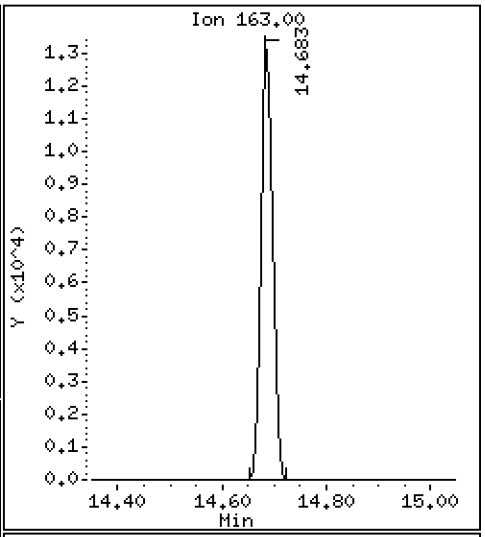
Column phase: ZB-5msi

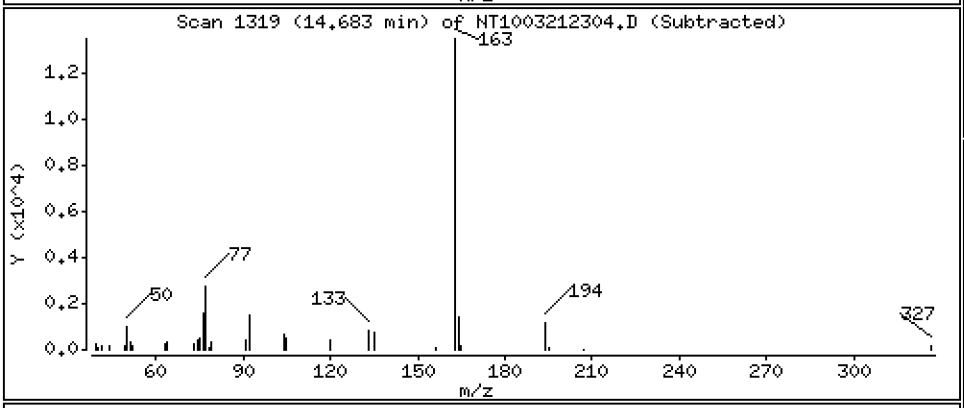
Column diameter: 0.25

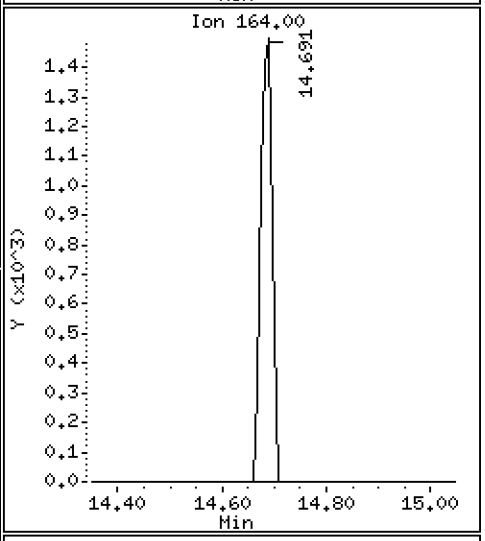
39 Dimethylphthalate

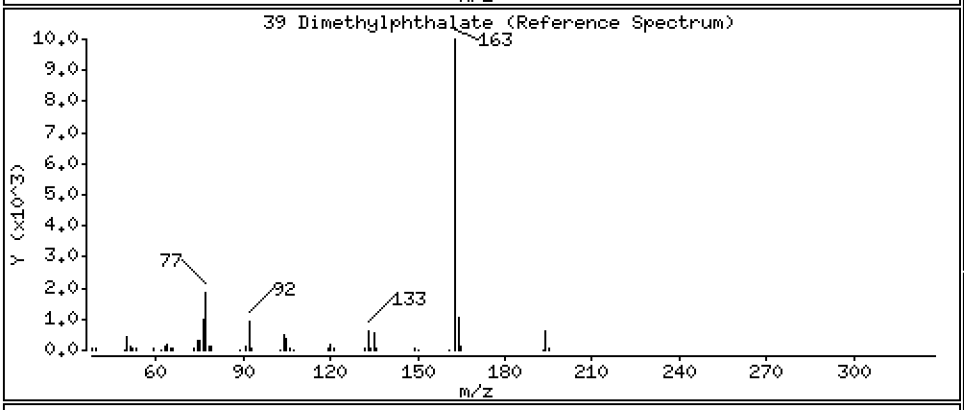
Concentration: 0.2026 ug/mL

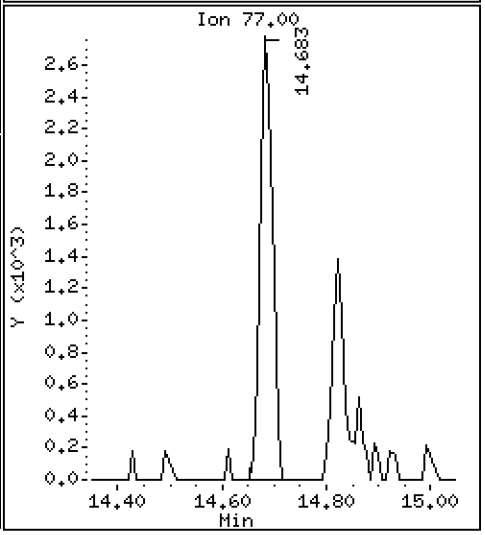


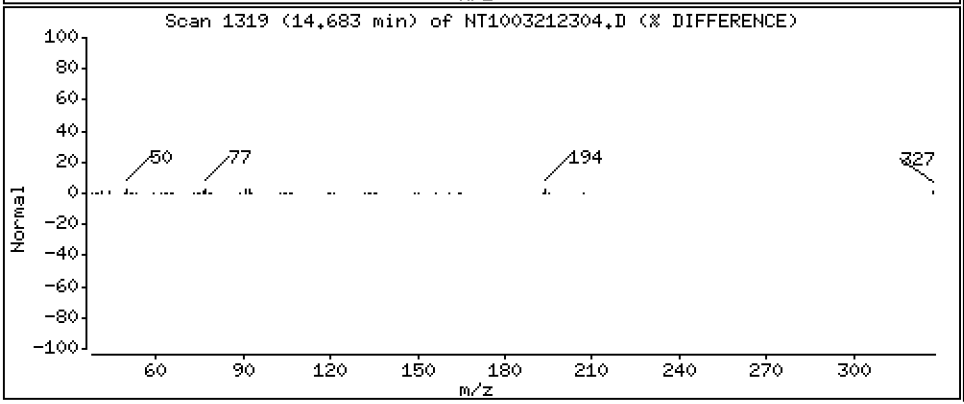












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

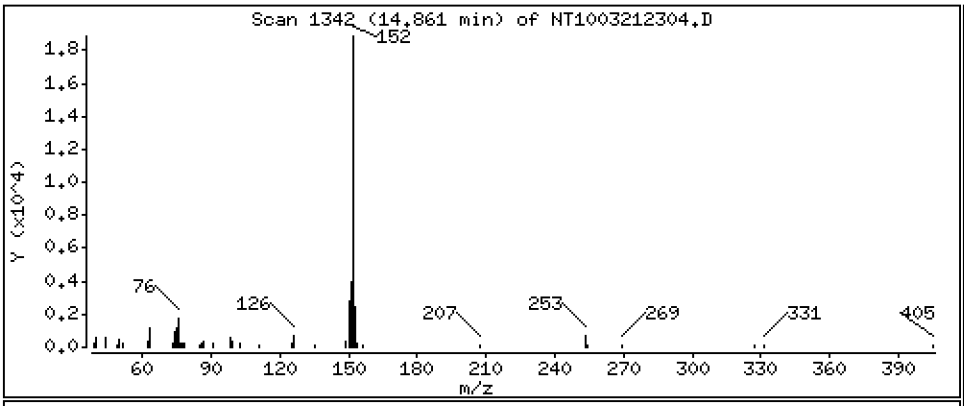
Operator: VTS

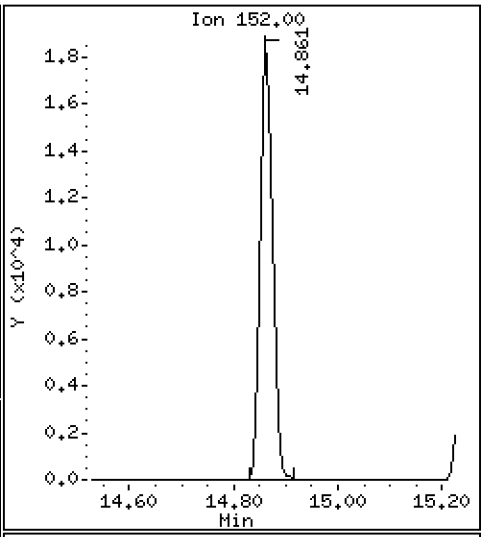
Column phase: ZB-5msi

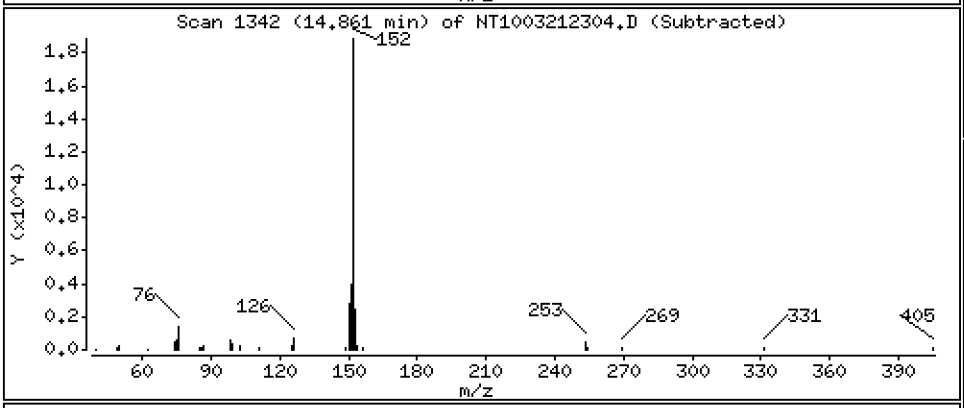
Column diameter: 0.25

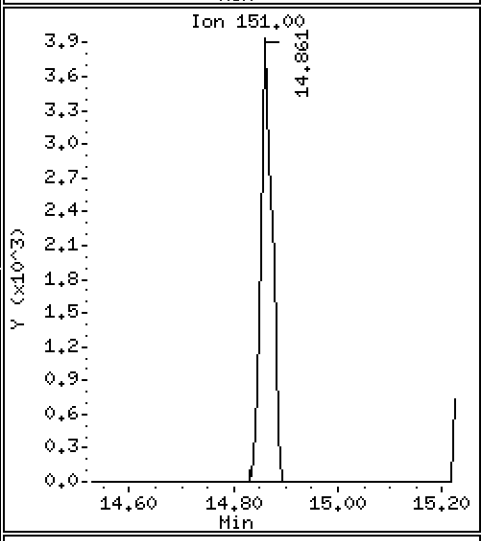
40 Acenaphthylene

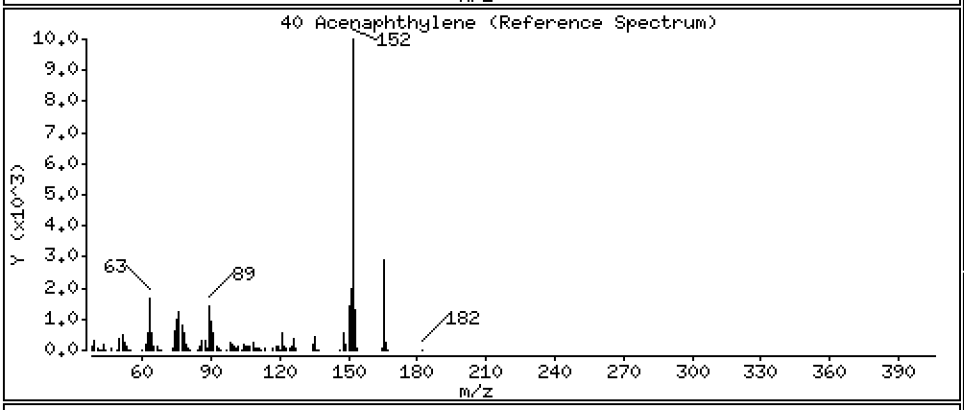
Concentration: 0.1966 ug/mL

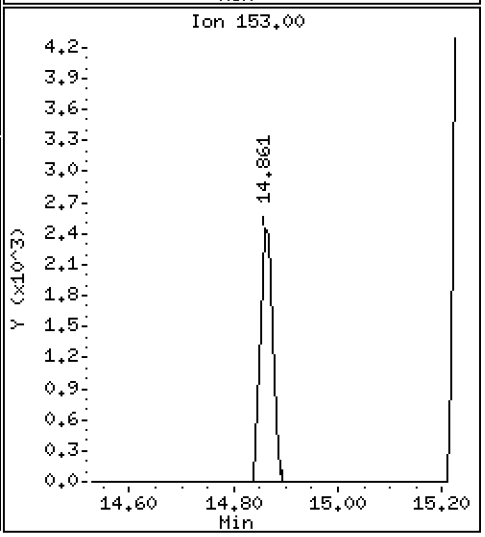


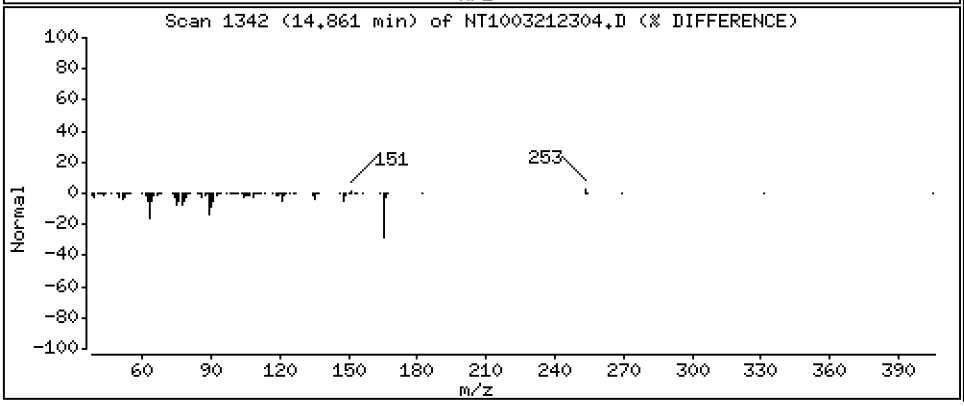












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

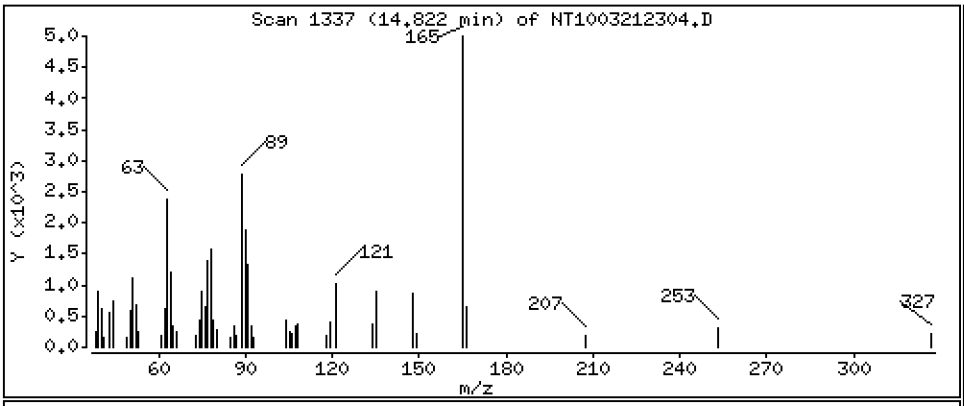
Operator: VTS

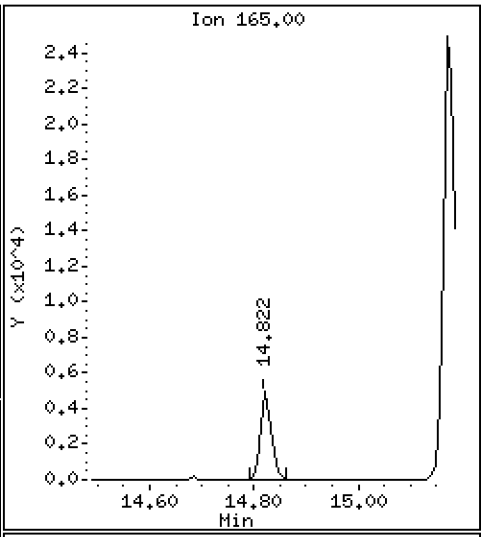
Column phase: ZB-5msi

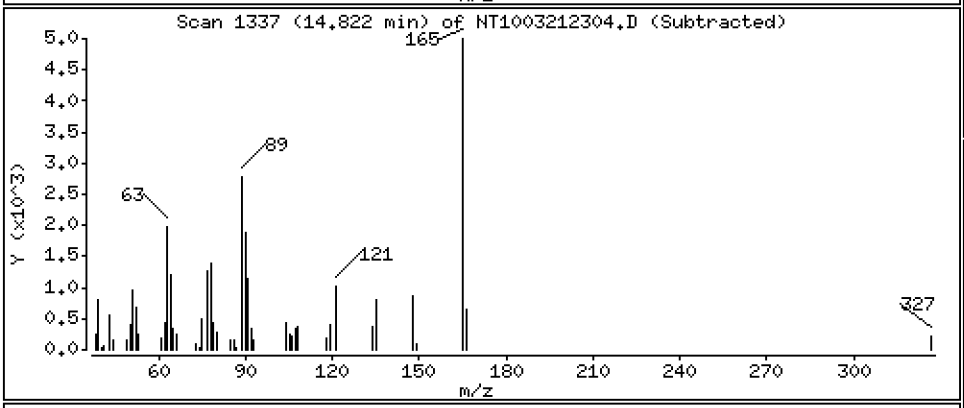
Column diameter: 0.25

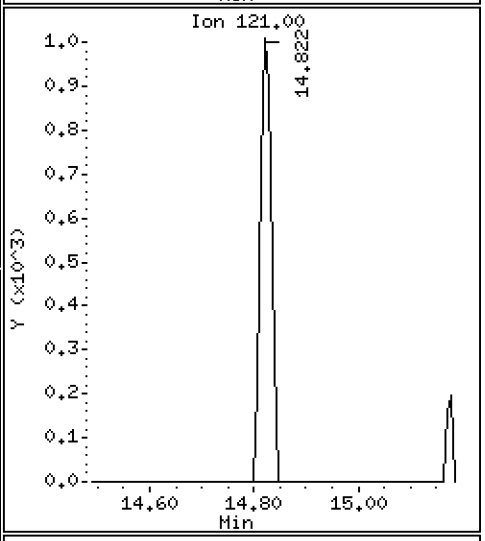
41 2,6-Dinitrotoluene

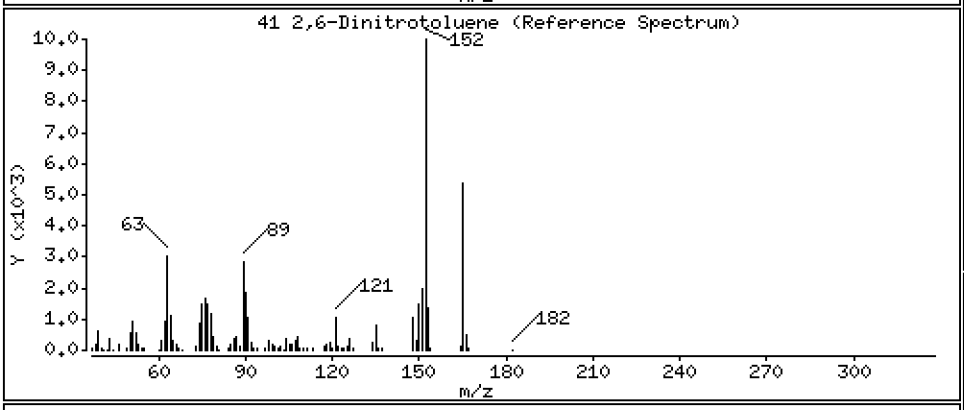
Concentration: 0.3300 ug/mL

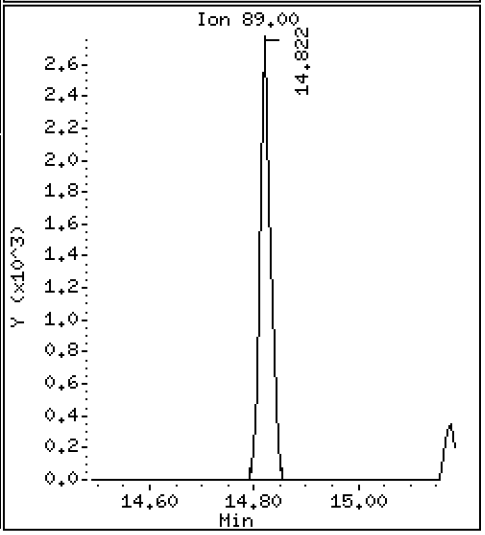


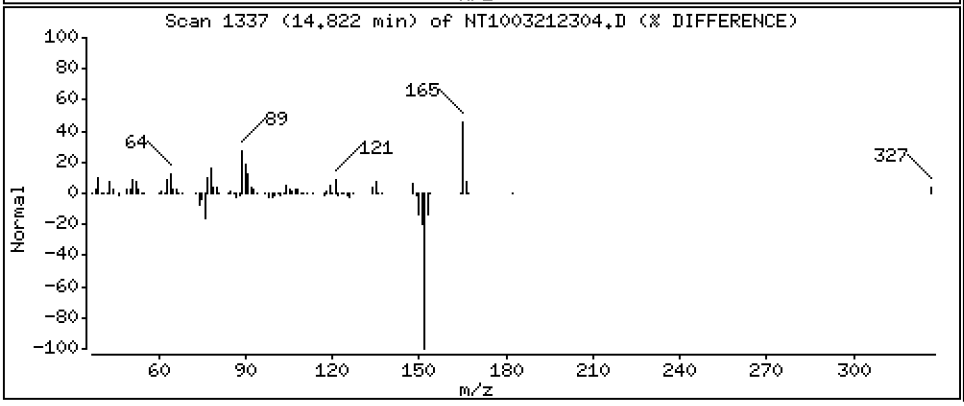












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

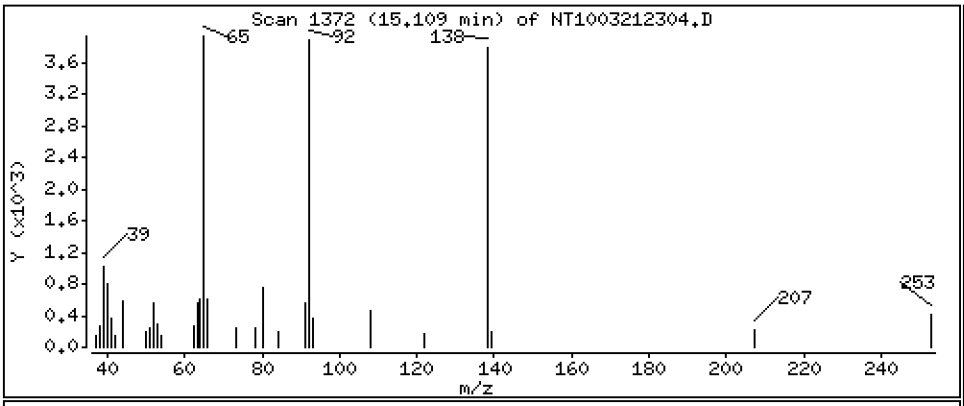
Operator: VTS

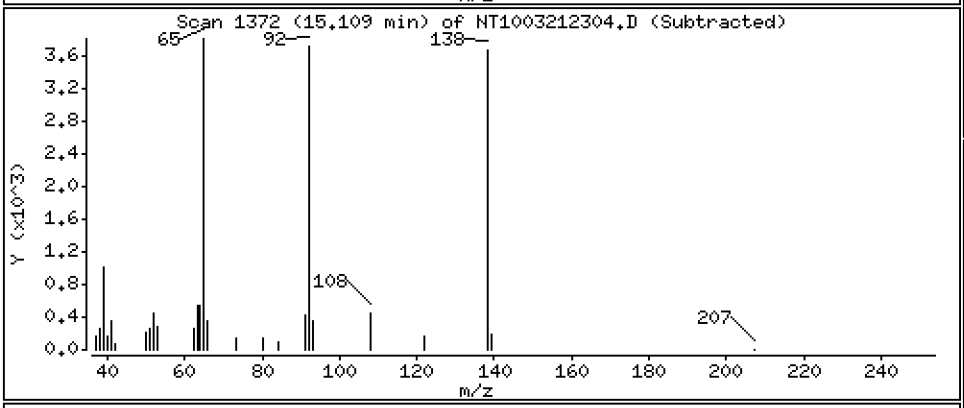
Column phase: ZB-5msi

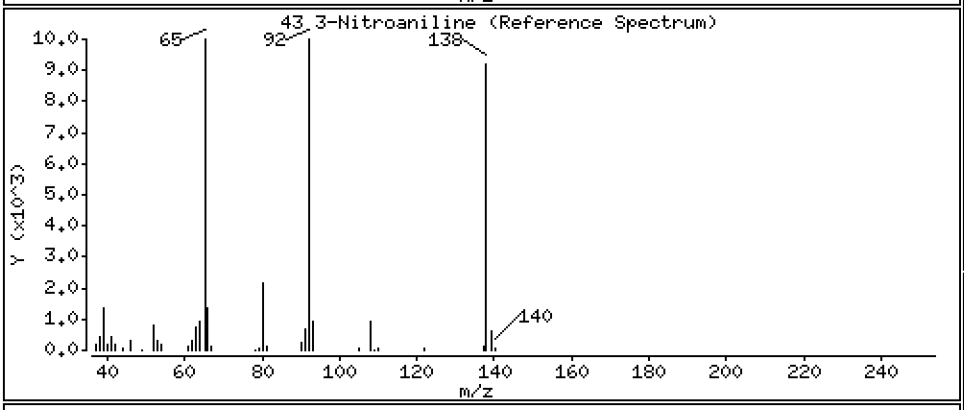
Column diameter: 0.25

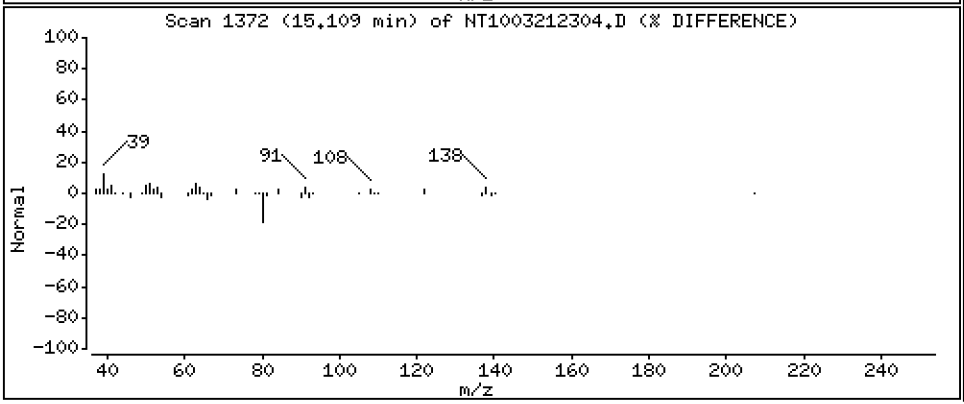
43 3-Nitroaniline

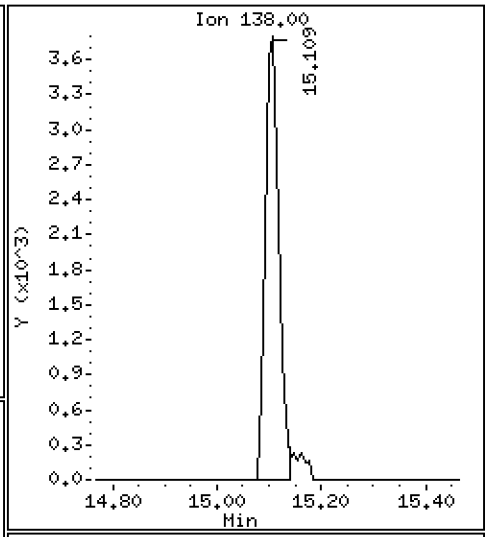
Concentration: 0.2756 ug/mL

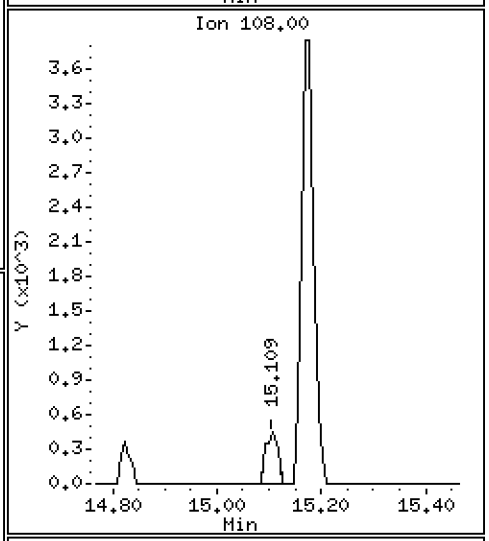


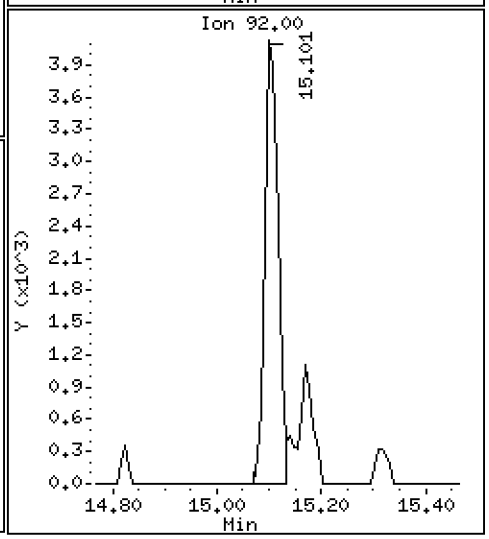












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

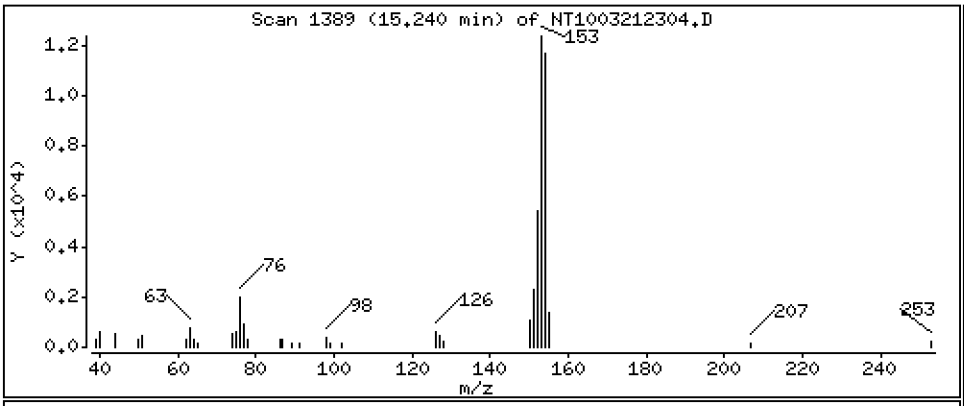
Operator: VTS

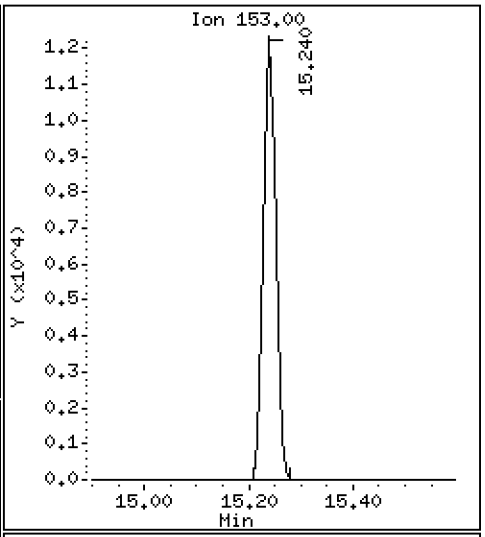
Column phase: ZB-5msi

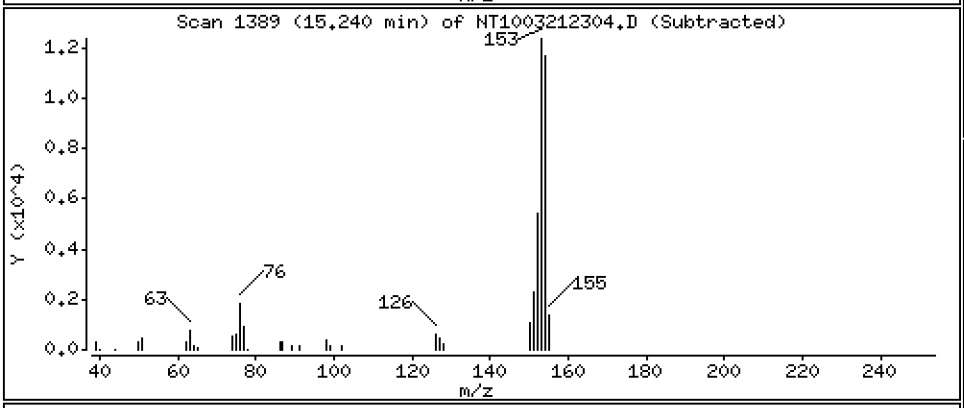
Column diameter: 0.25

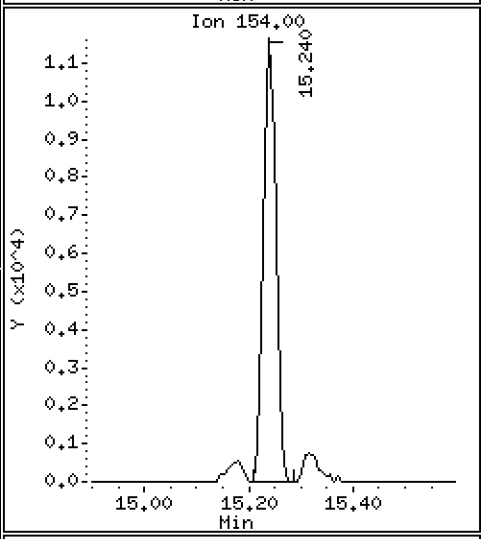
44 Acenaphthene

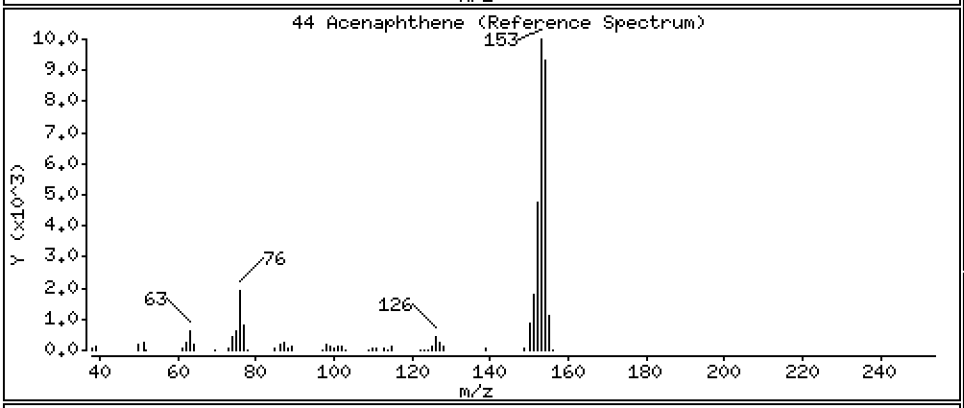
Concentration: 0.2058 ug/mL

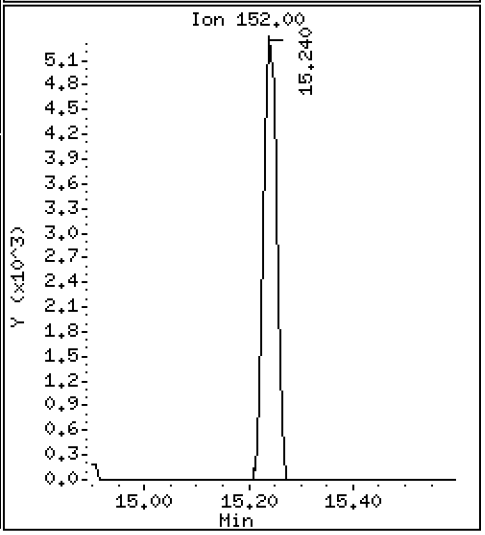


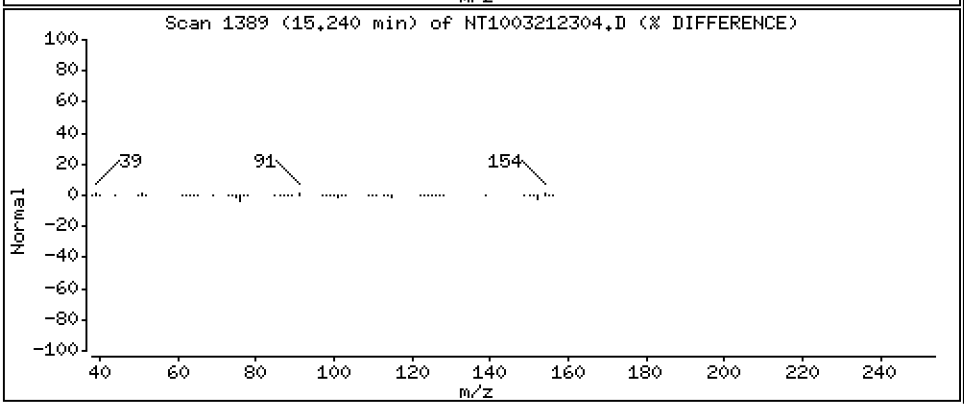












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212304.D

Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

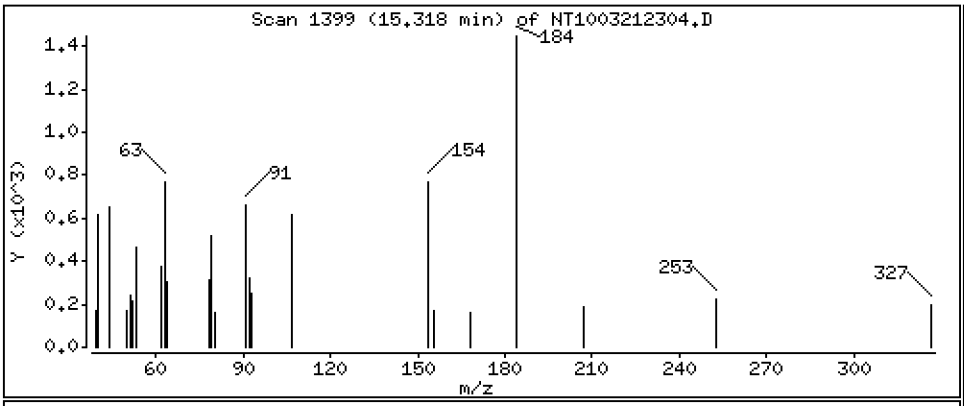
Operator: VTS

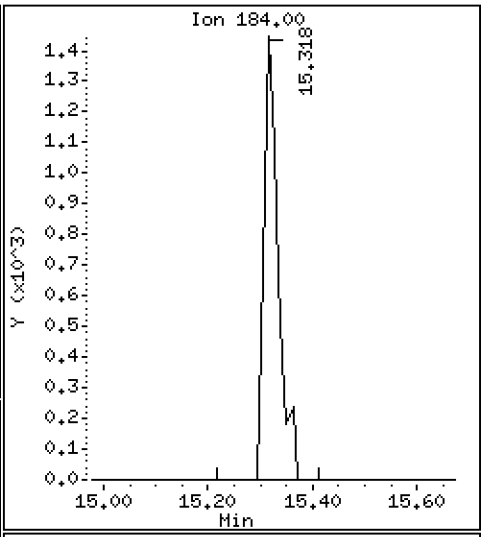
Column phase: ZB-5msi

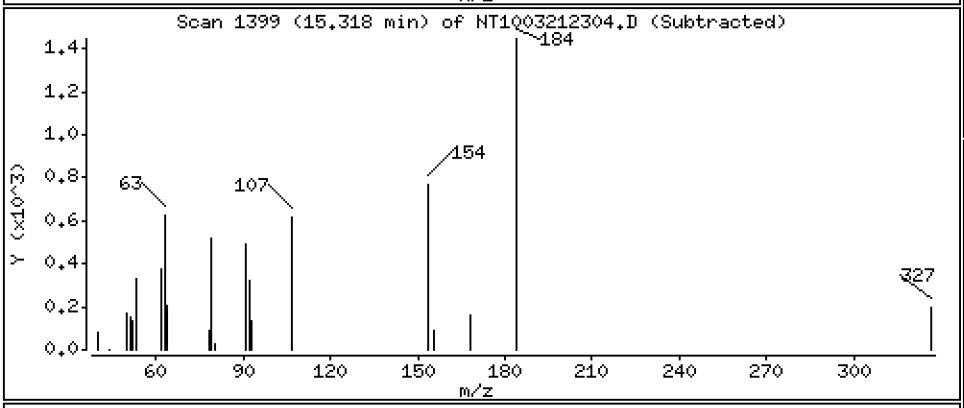
Column diameter: 0.25

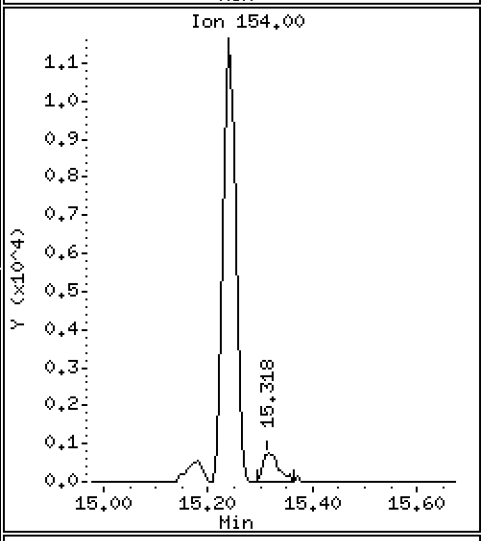
45 2,4-Dinitrophenol

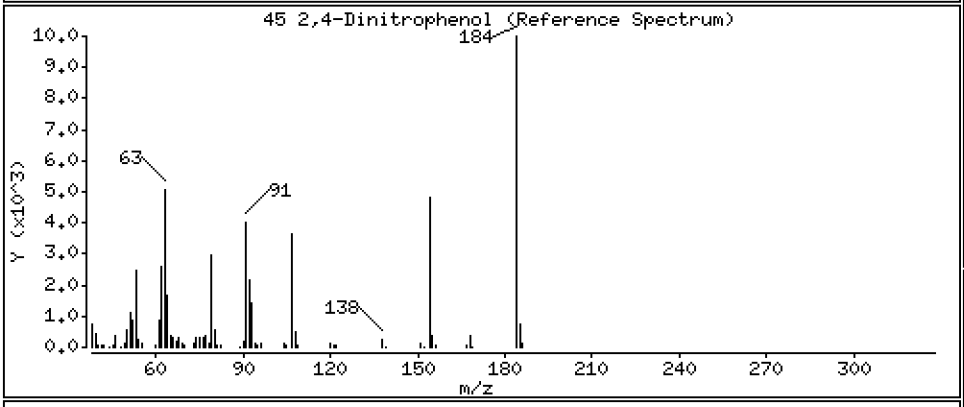
Concentration: 0.2041 ug/mL

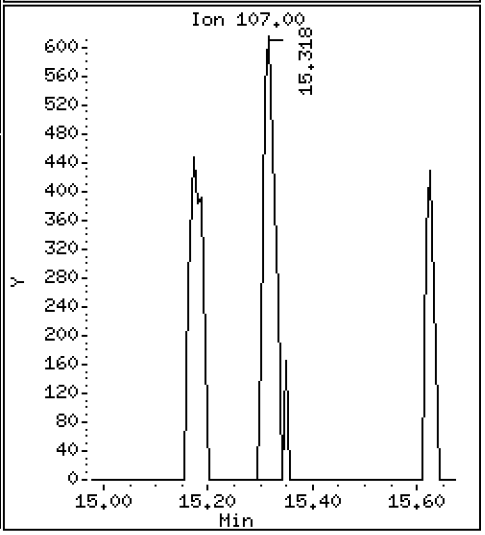


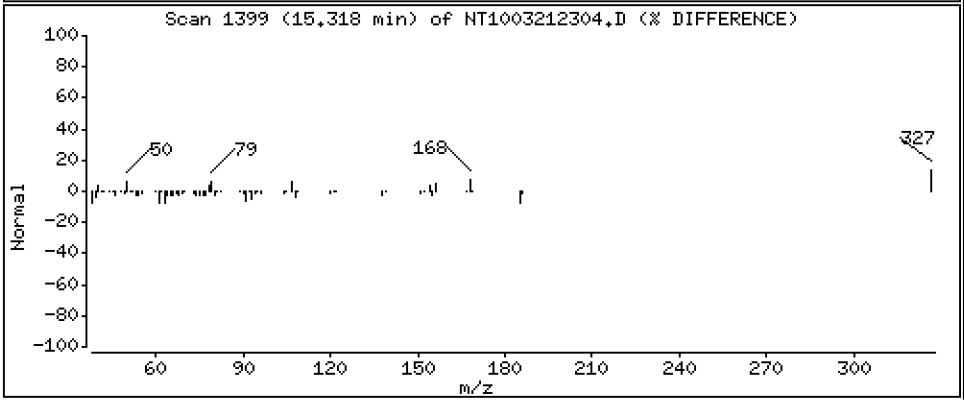












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

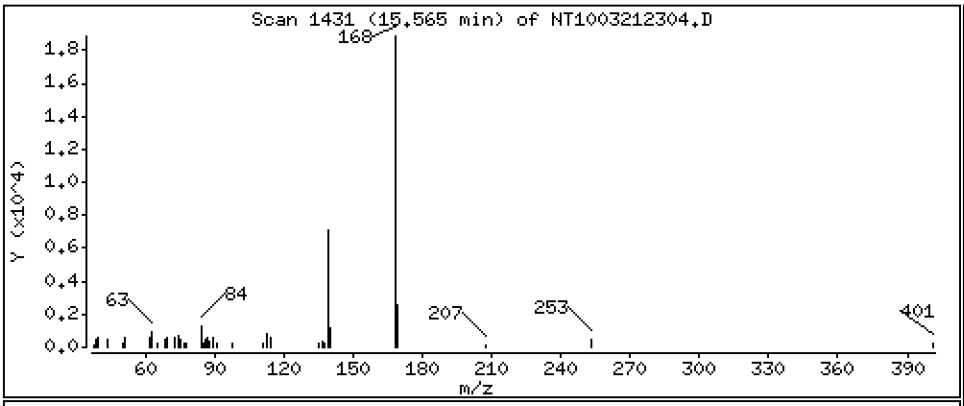
Operator: VTS

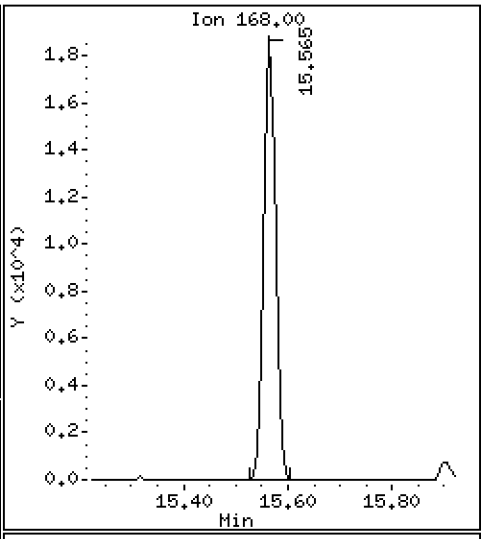
Column phase: ZB-5msi

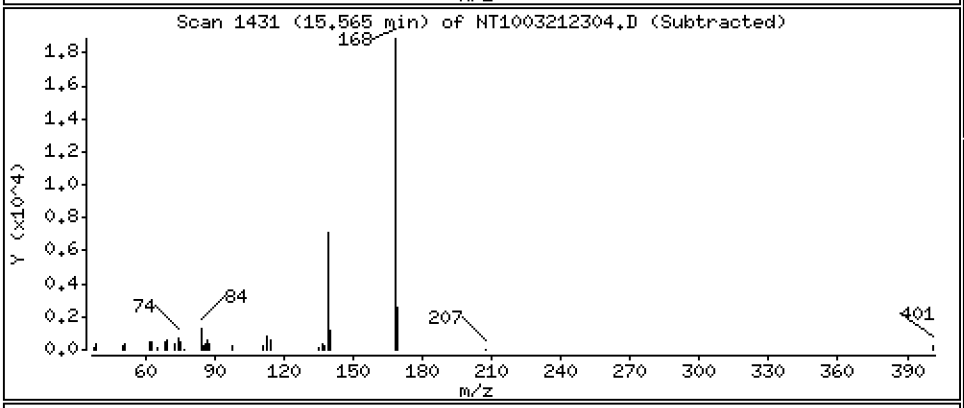
Column diameter: 0.25

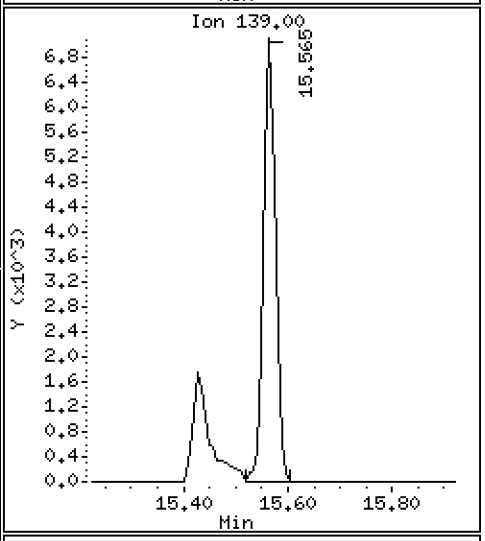
46 Dibenzofuran

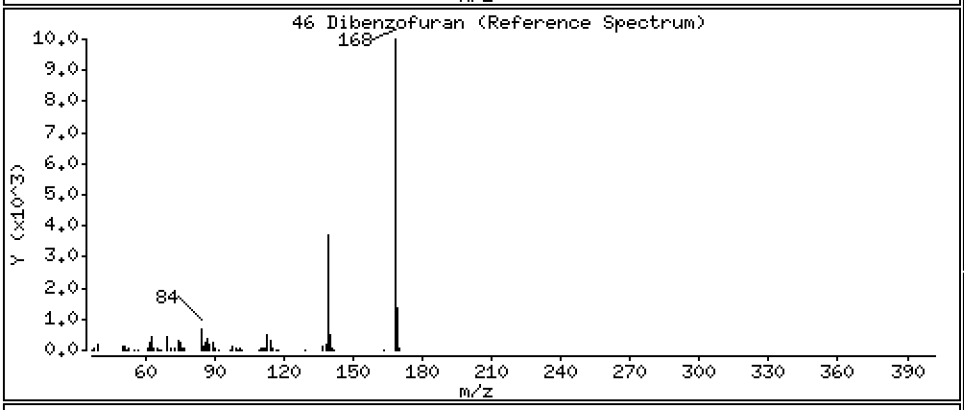
Concentration: 0.2028 ug/mL

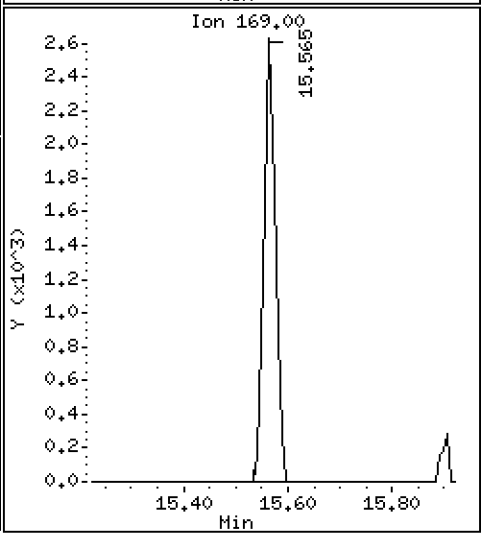


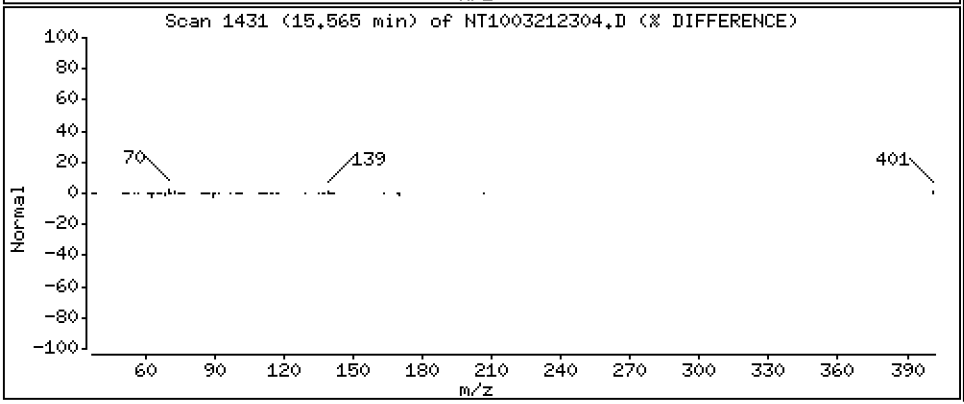












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

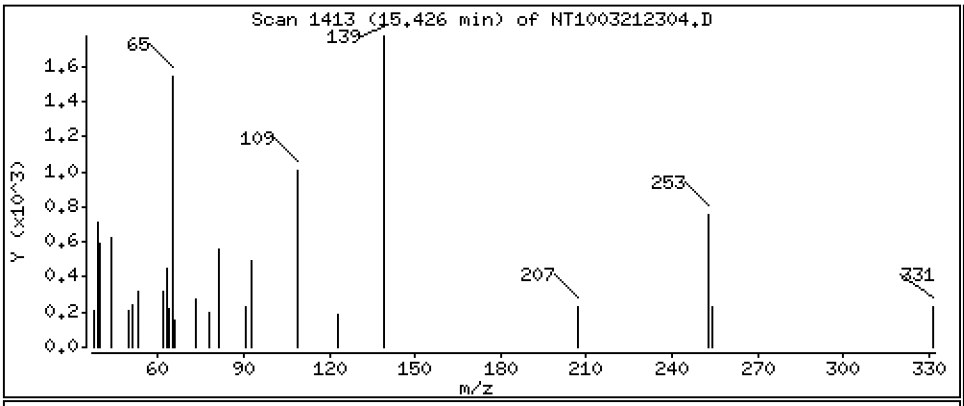
Operator: VTS

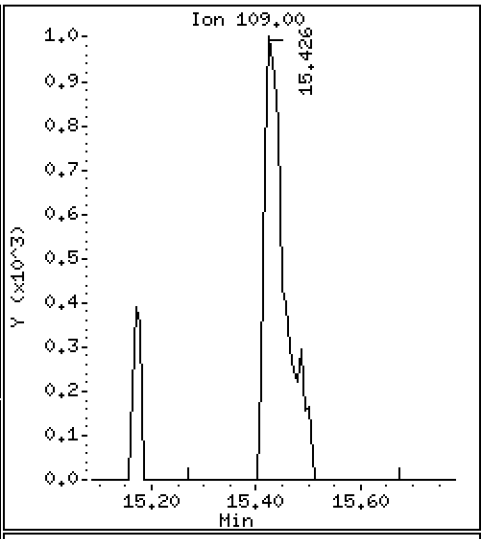
Column phase: ZB-5msi

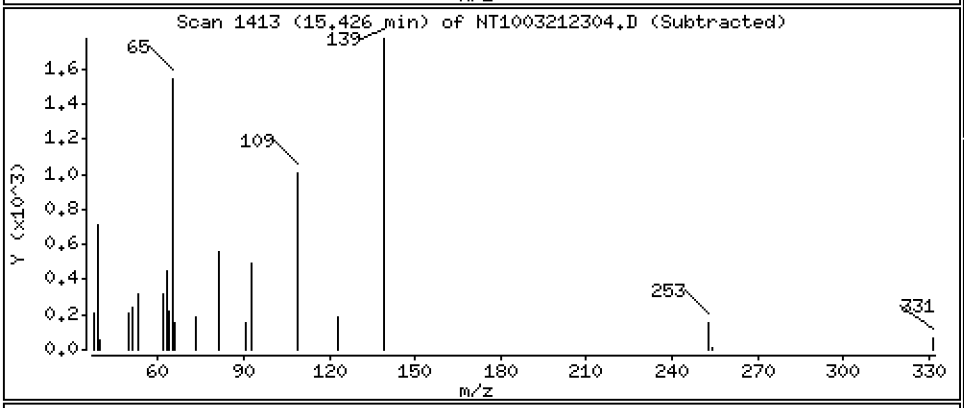
Column diameter: 0.25

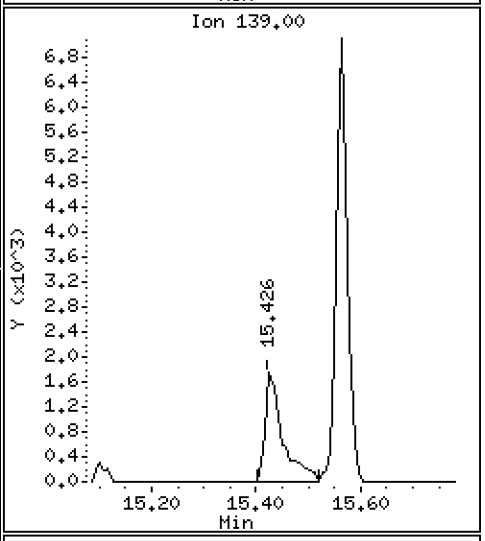
47 4-Nitrophenol

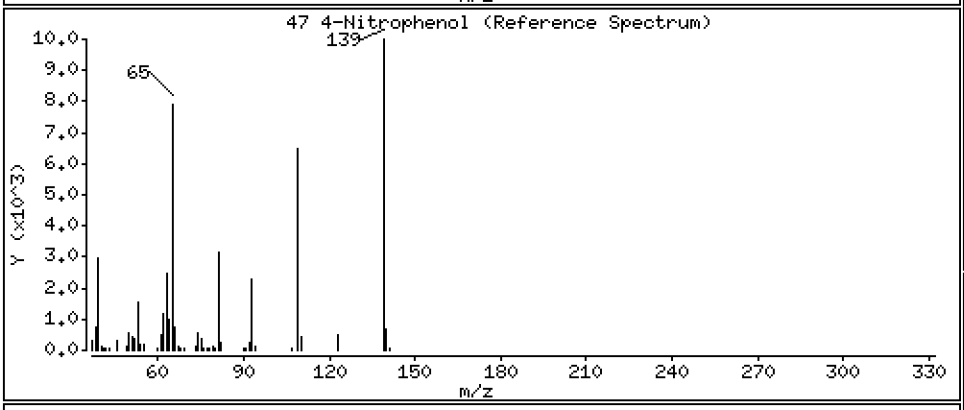
Concentration: 0.1817 ug/mL

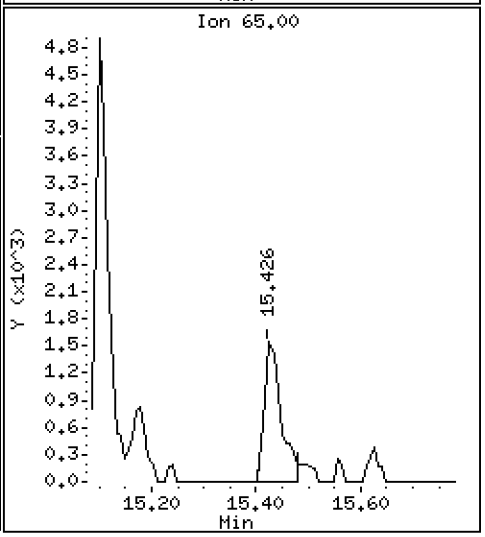


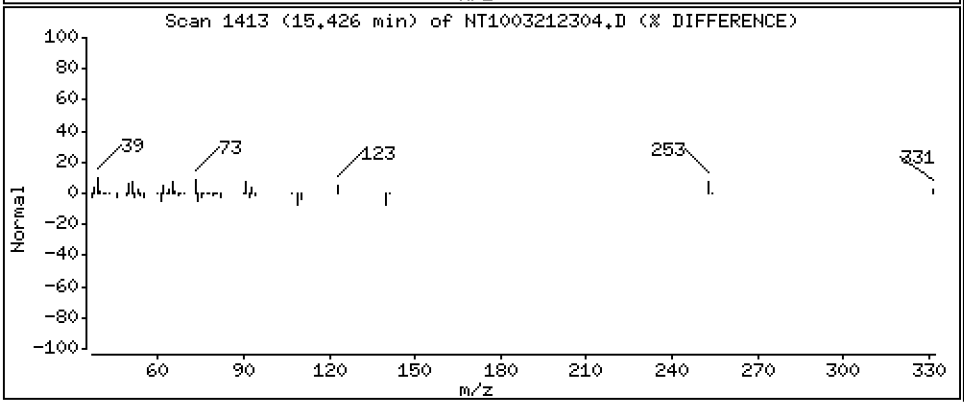












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

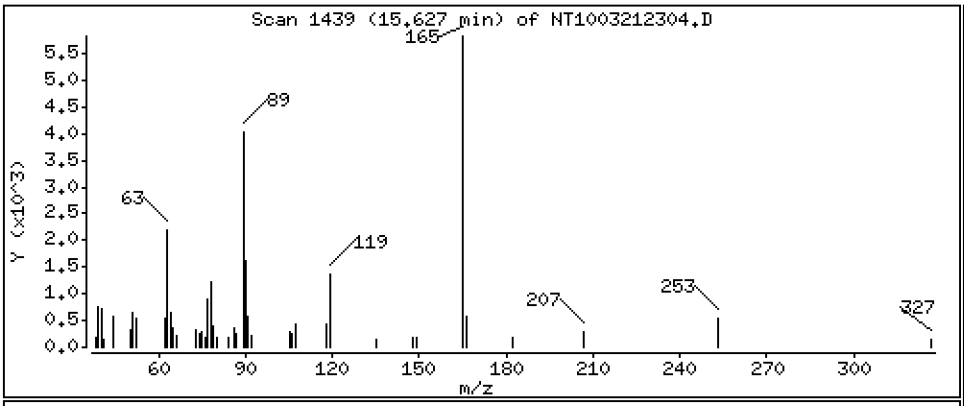
Operator: VTS

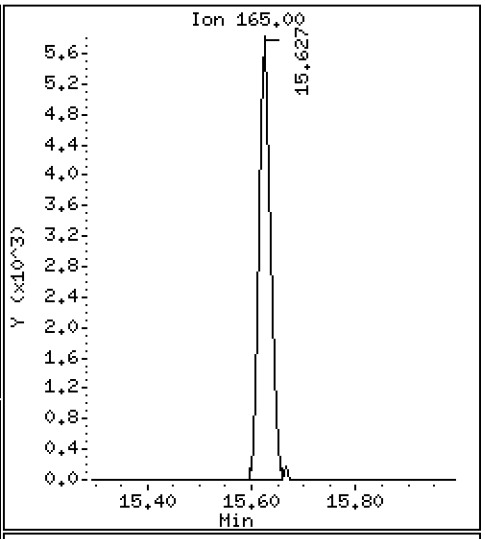
Column phase: ZB-5msi

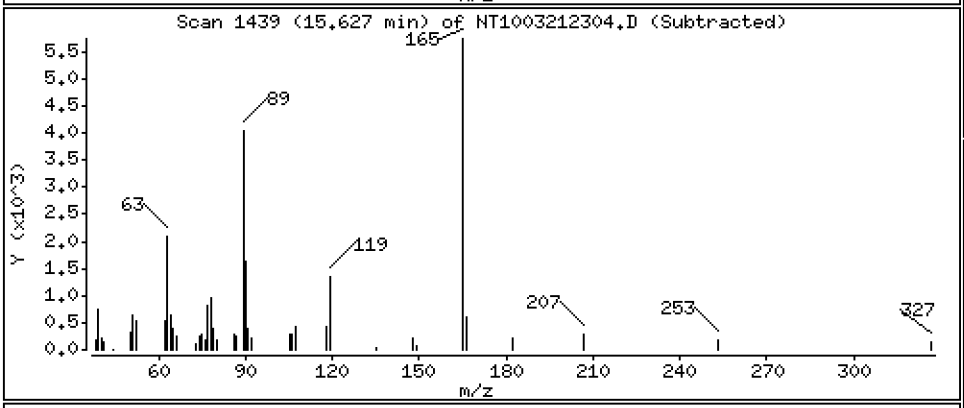
Column diameter: 0.25

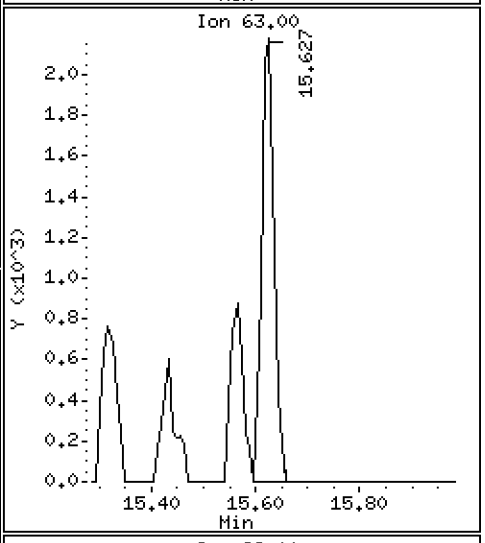
48 2,4-Dinitrotoluene

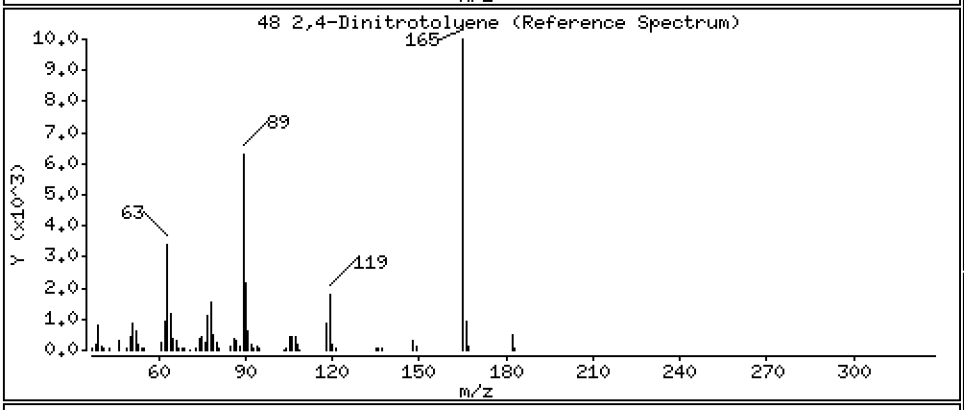
Concentration: 0.2736 ug/mL

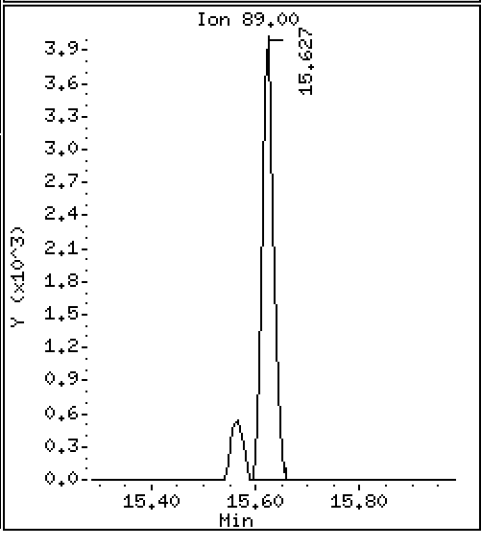


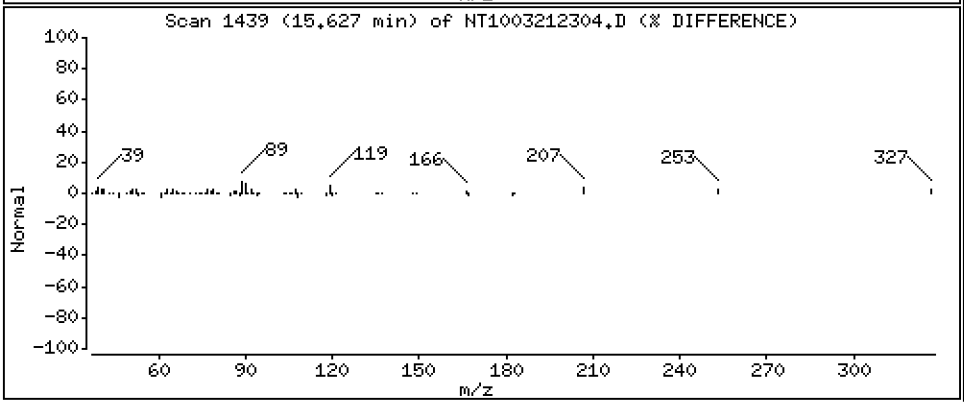












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

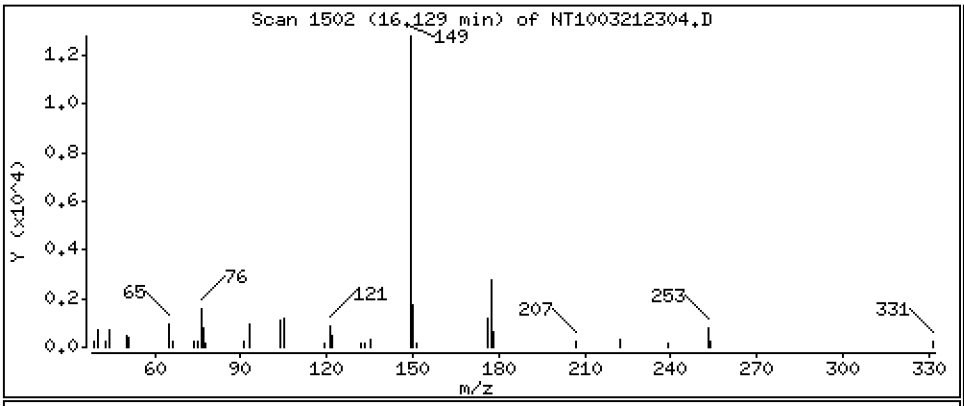
Operator: VTS

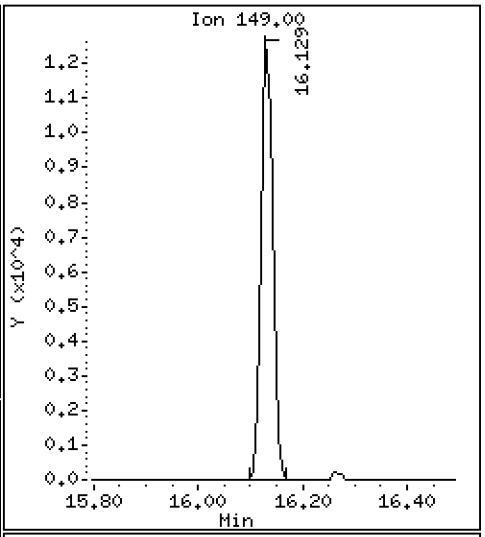
Column phase: ZB-5msi

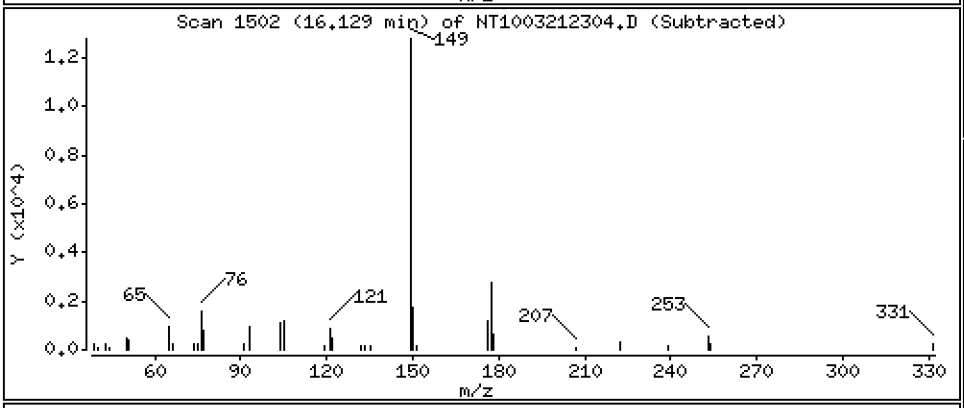
Column diameter: 0.25

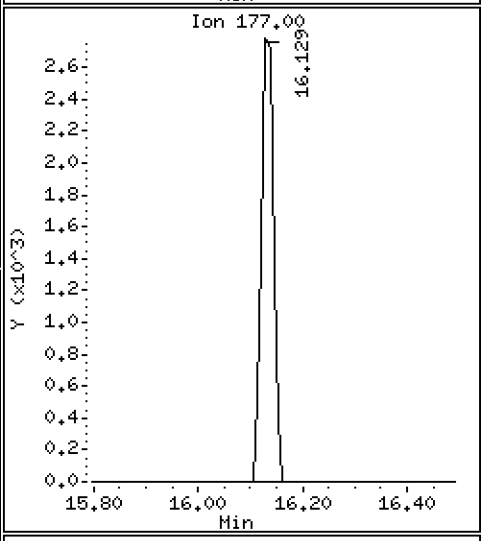
50 Diethylphthalate

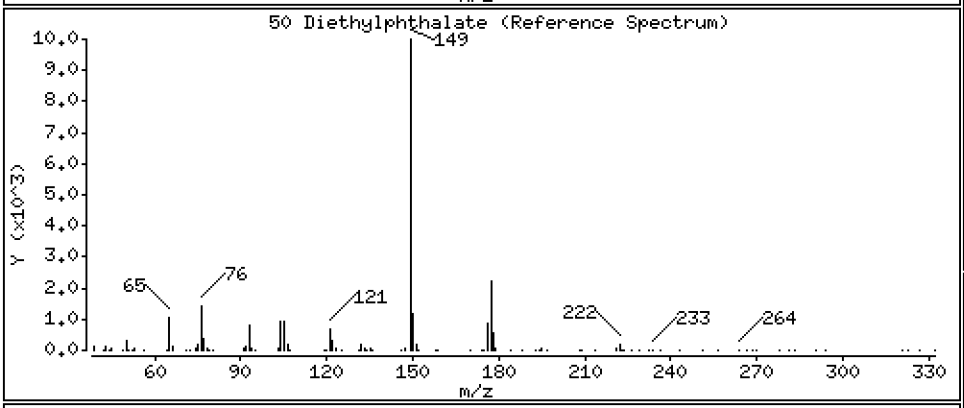
Concentration: 0.1908 ug/mL

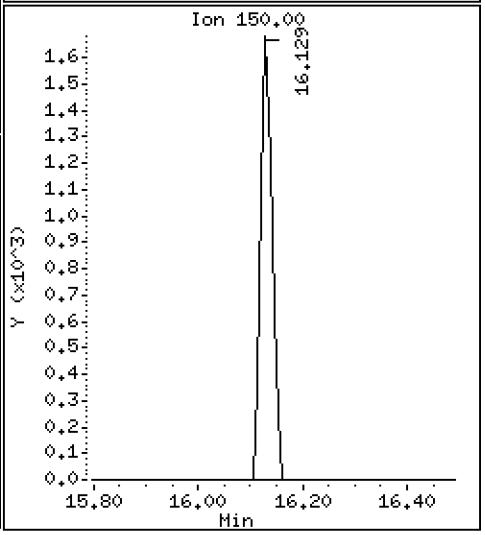


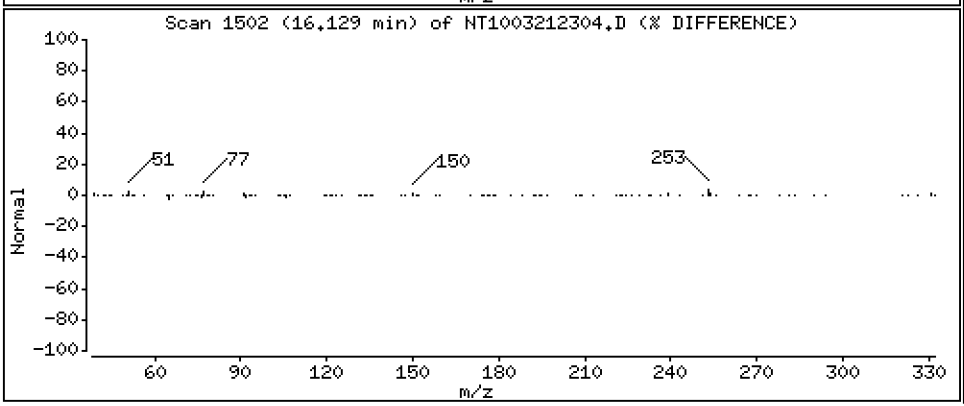












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

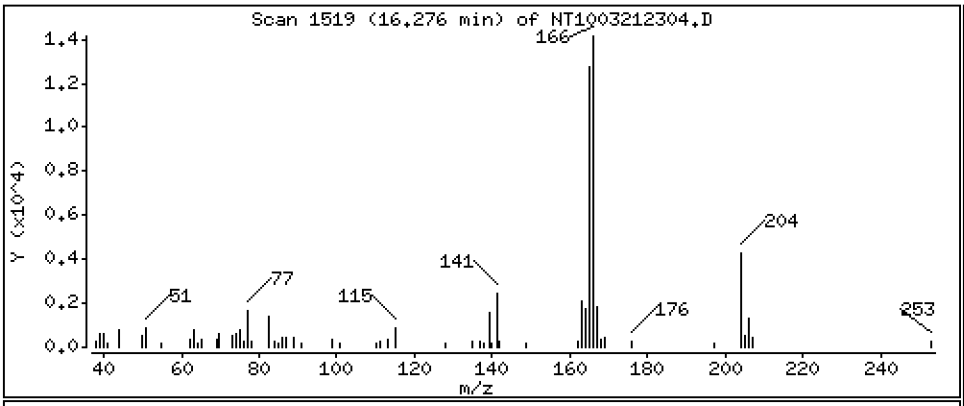
Operator: VTS

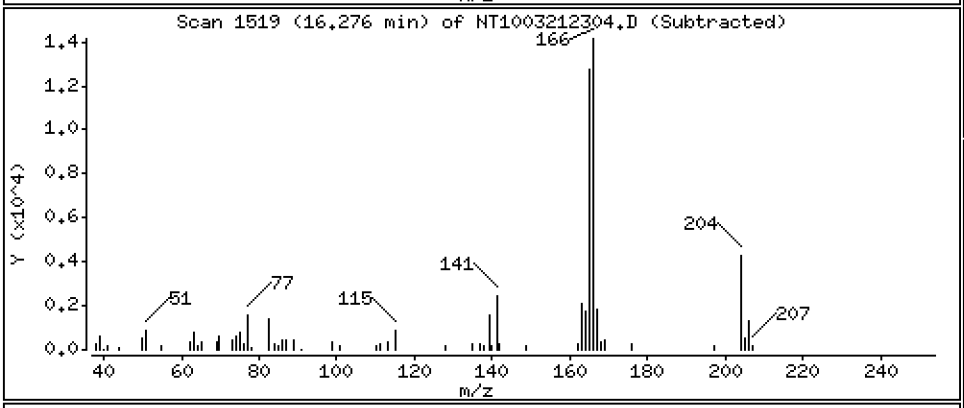
Column phase: ZB-5msi

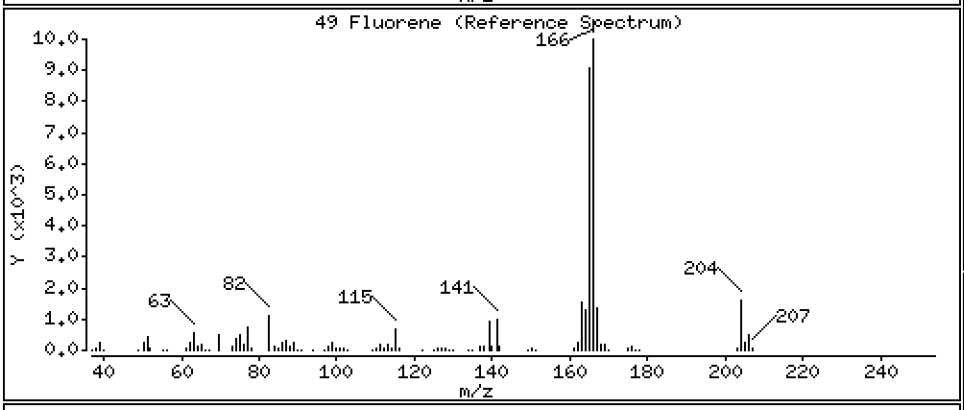
Column diameter: 0.25

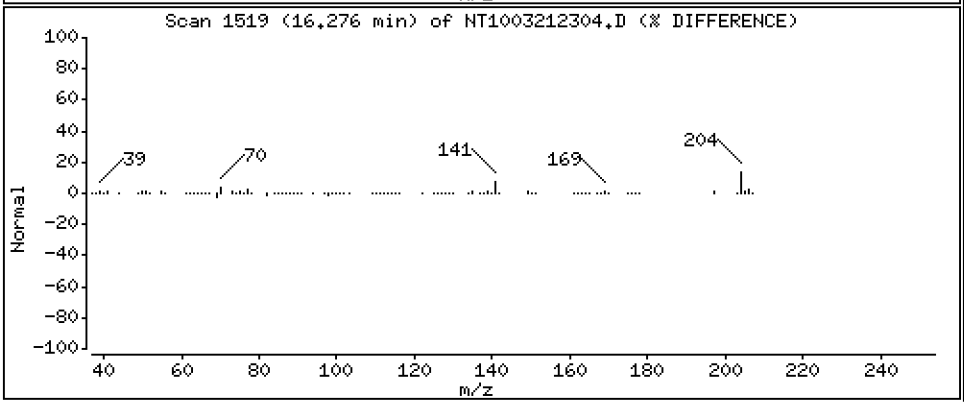
49 Fluorene

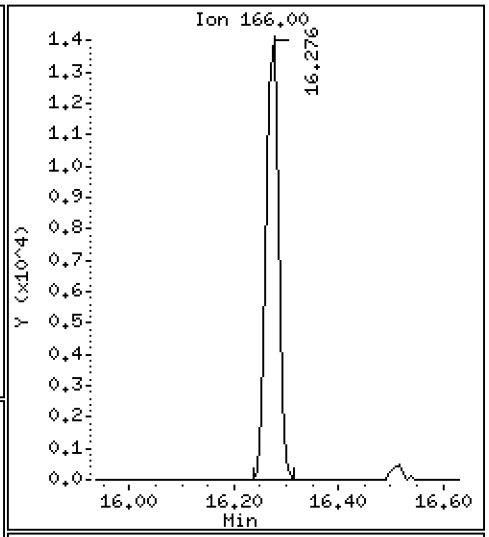
Concentration: 0.2045 ug/mL

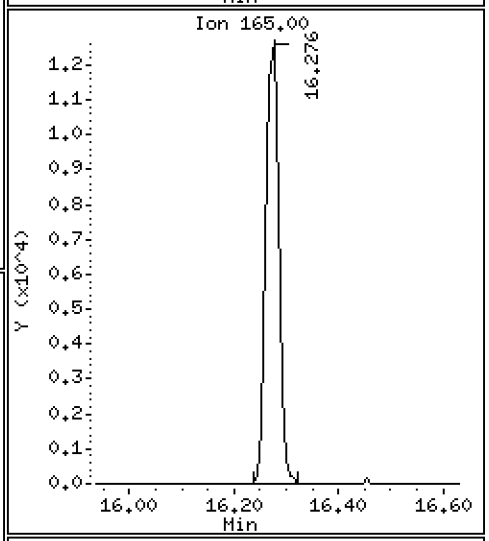


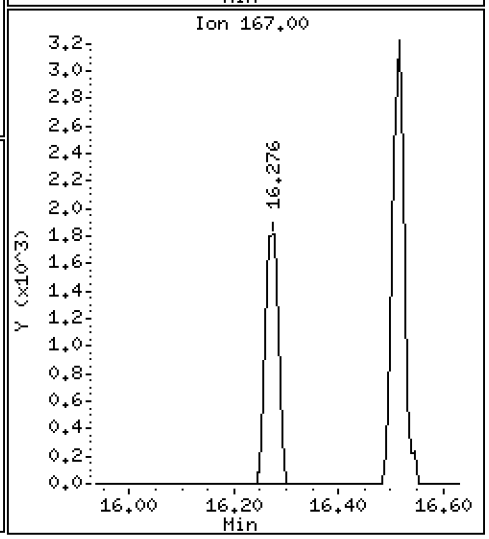












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

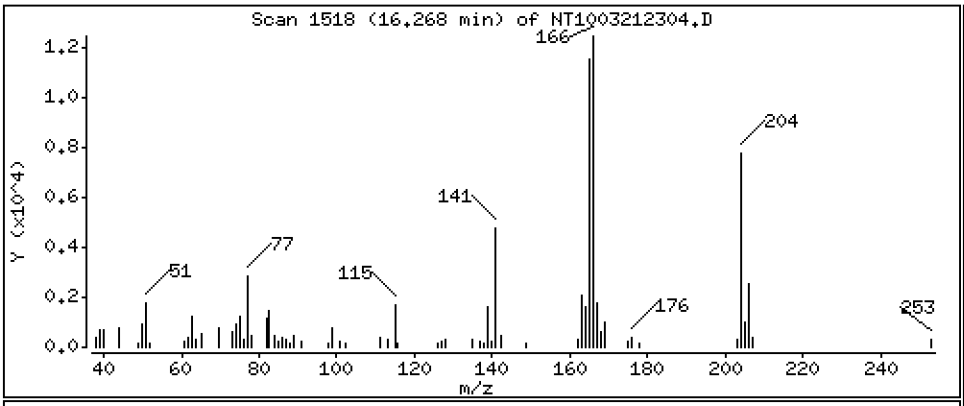
Operator: VTS

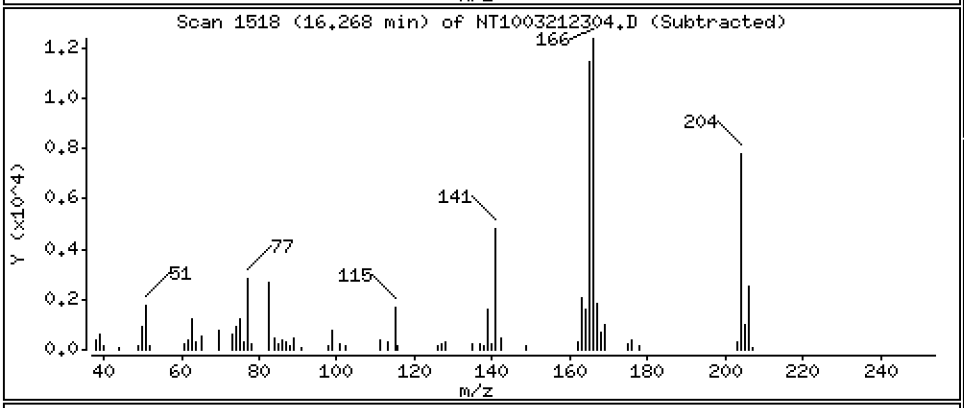
Column phase: ZB-5msi

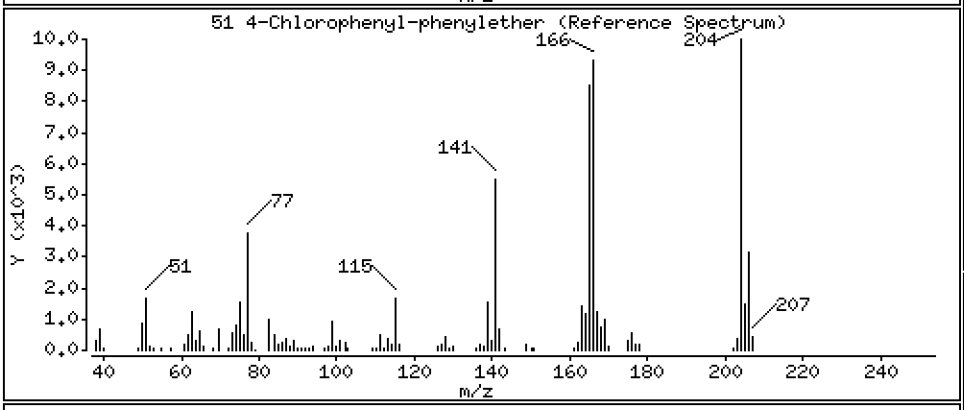
Column diameter: 0.25

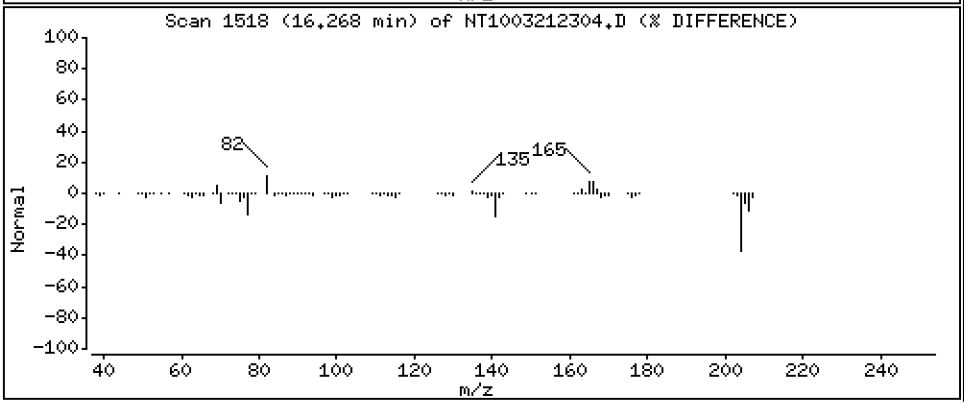
51 4-Chlorophenyl-phenylether

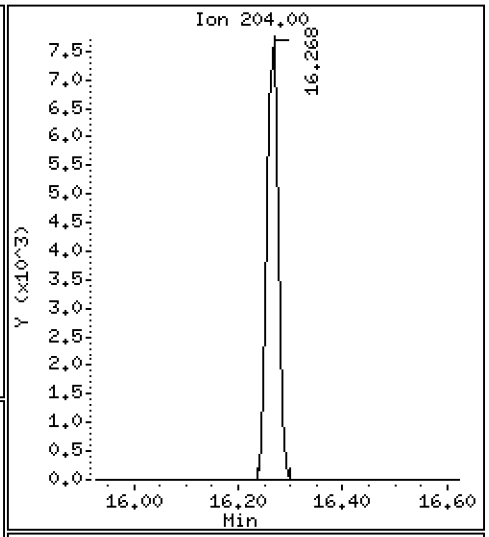
Concentration: 0.2120 ug/mL

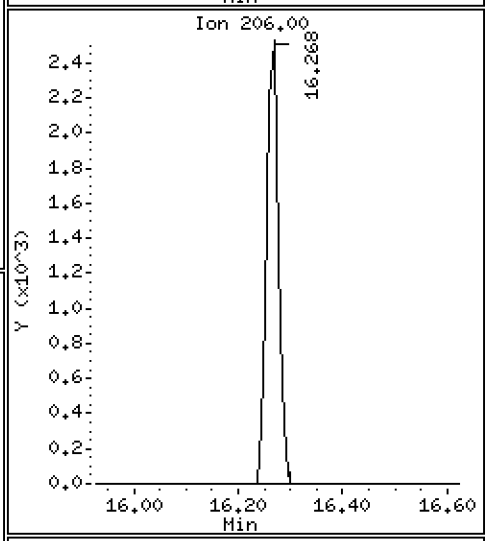


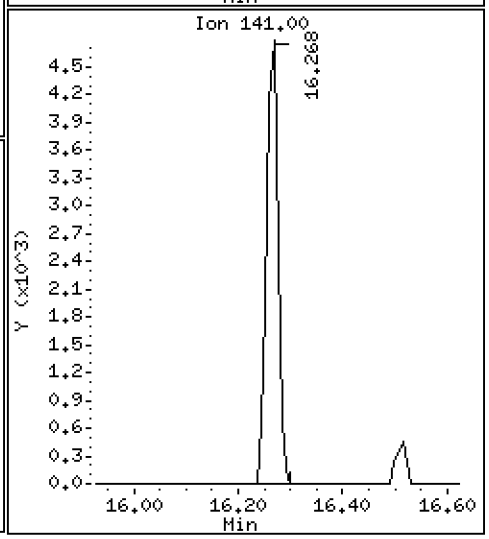












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212304.D

Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

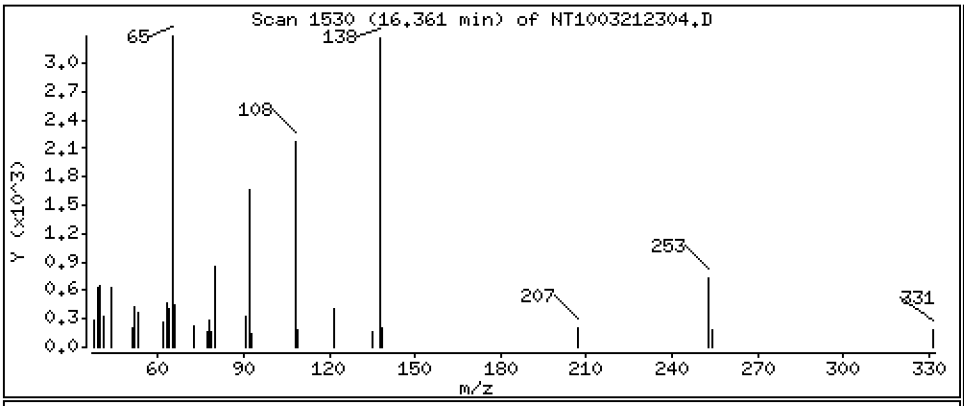
Operator: VTS

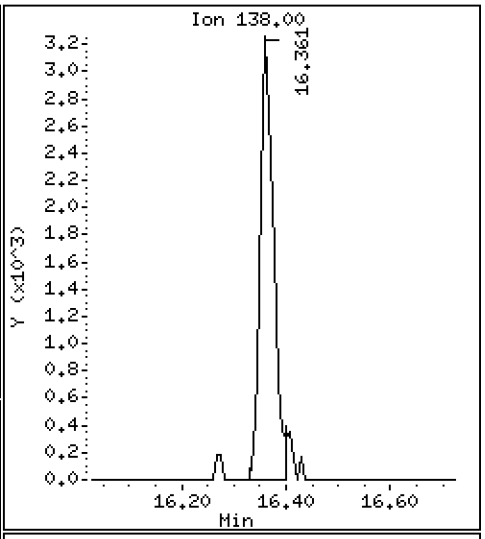
Column phase: ZB-5msi

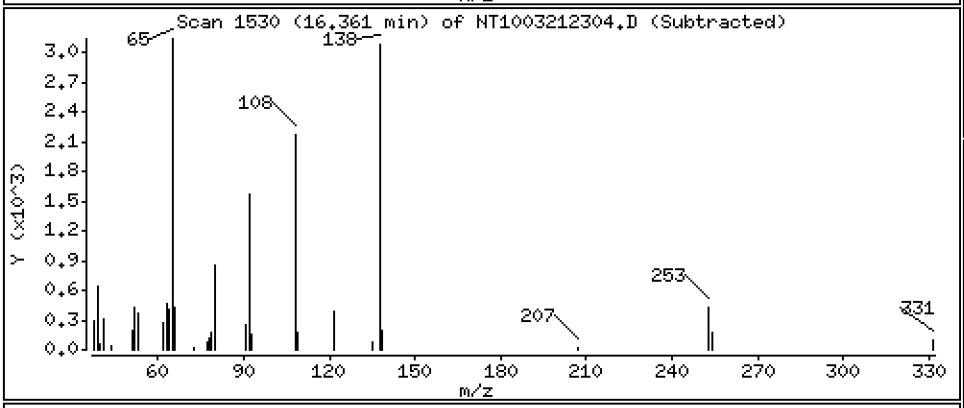
Column diameter: 0.25

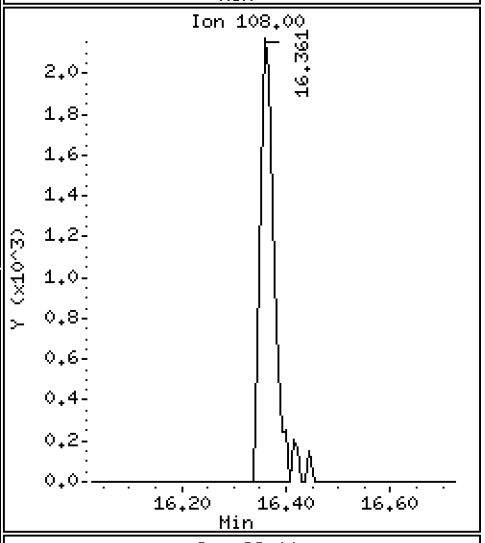
52 4-Nitroaniline

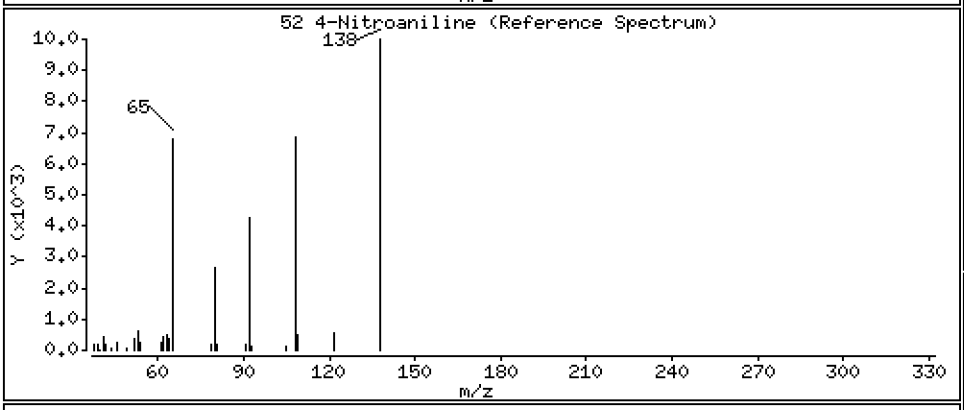
Concentration: 0.2611 ug/mL

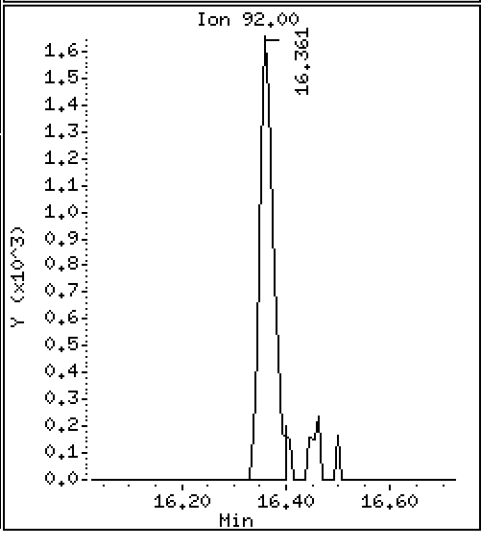


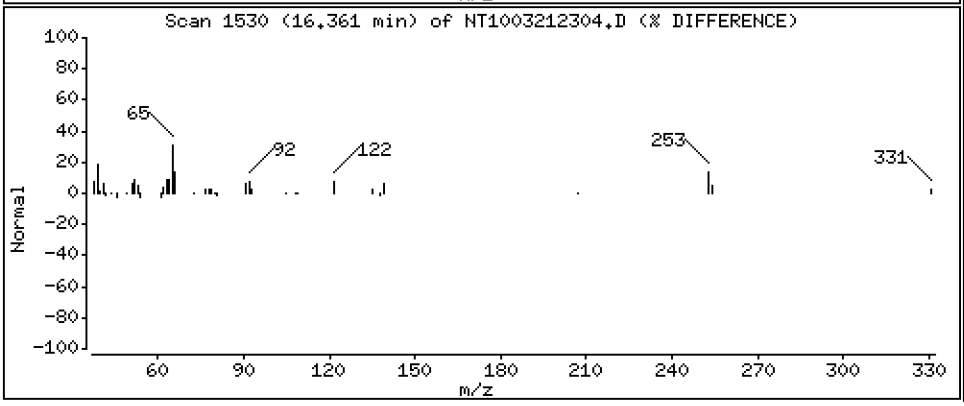












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

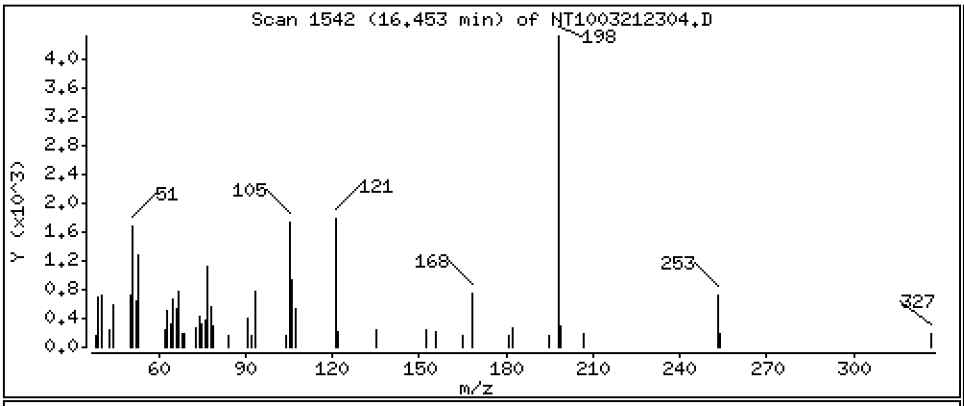
Operator: VTS

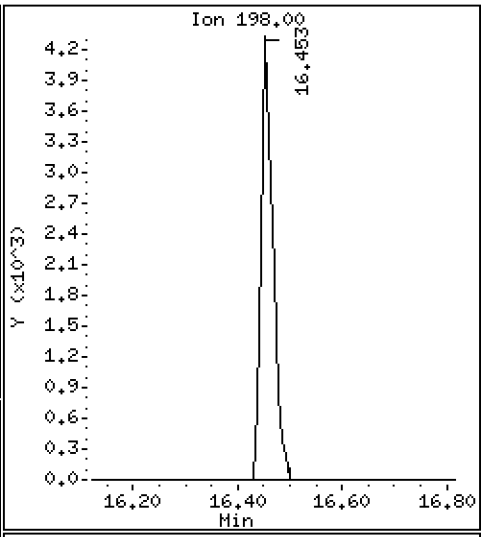
Column phase: ZB-5msi

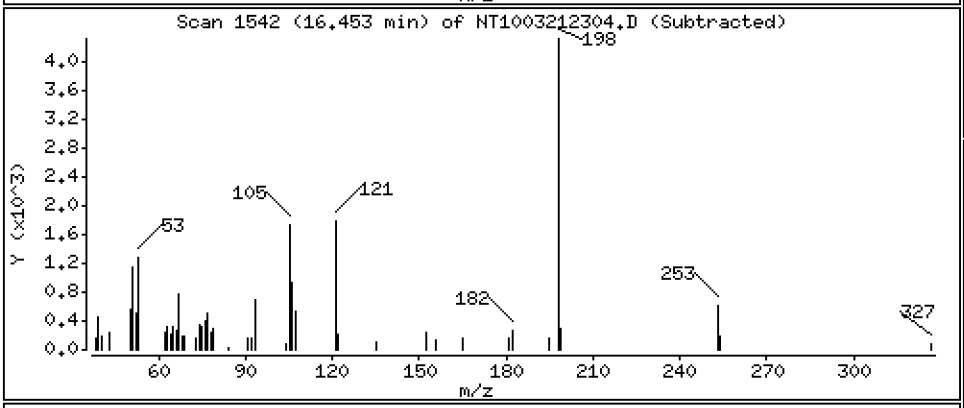
Column diameter: 0.25

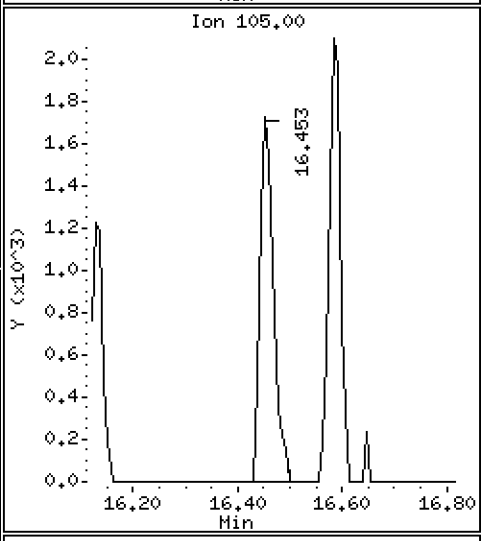
53 4,6-Dinitro-2-methylphenol

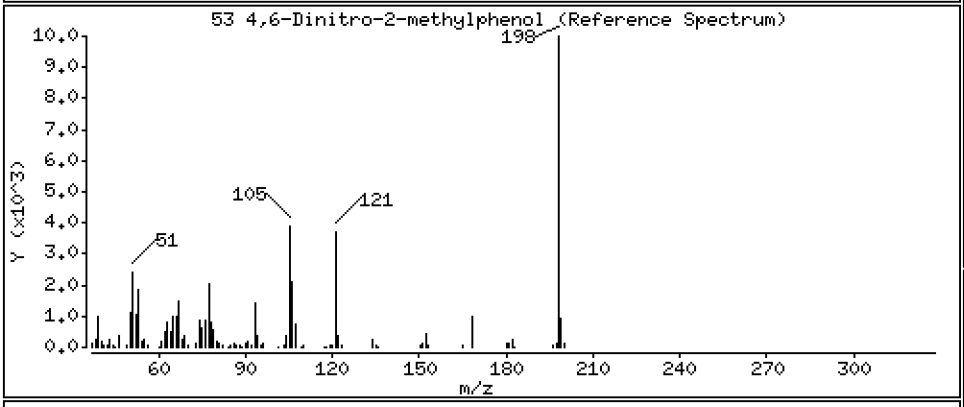
Concentration: 0.3915 ug/mL

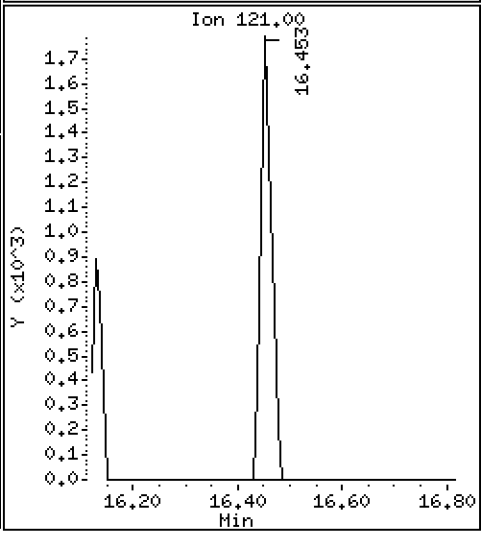


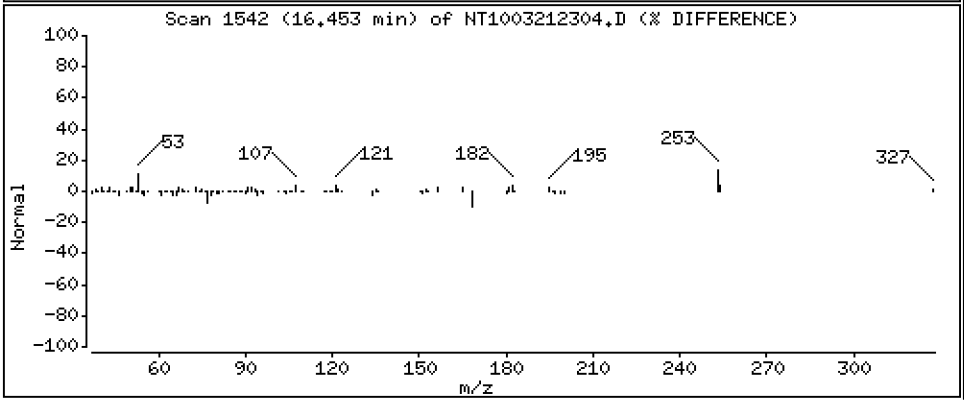












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

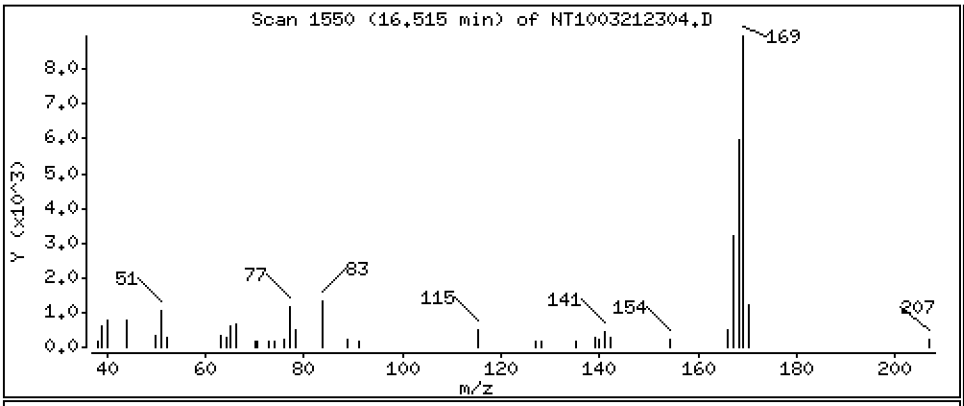
Operator: VTS

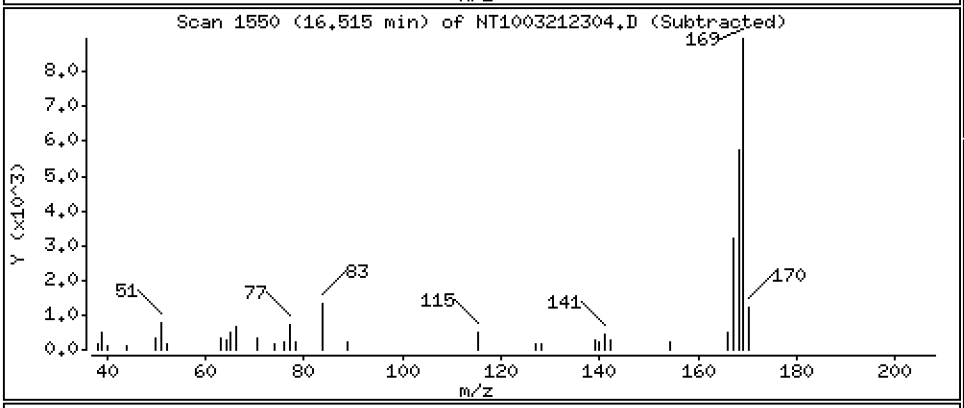
Column phase: ZB-5msi

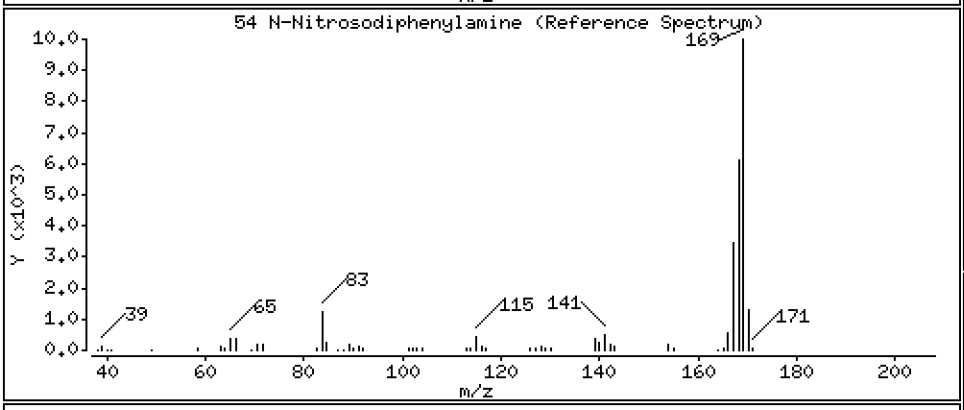
Column diameter: 0.25

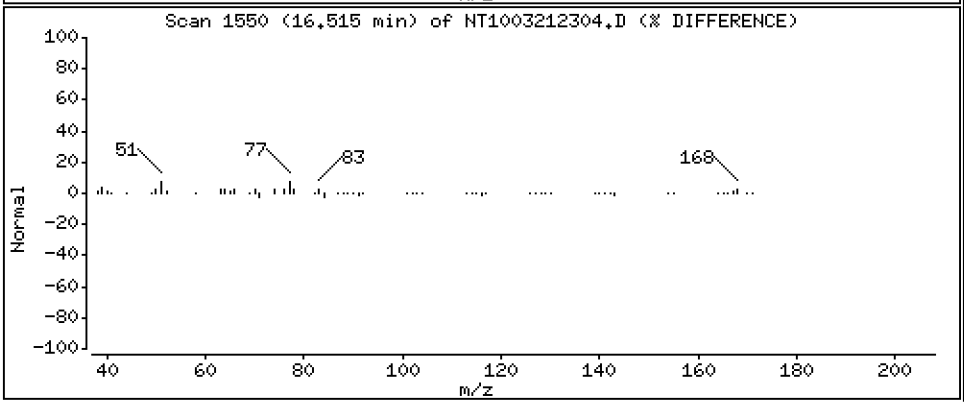
54 N-Nitrosodiphenylamine

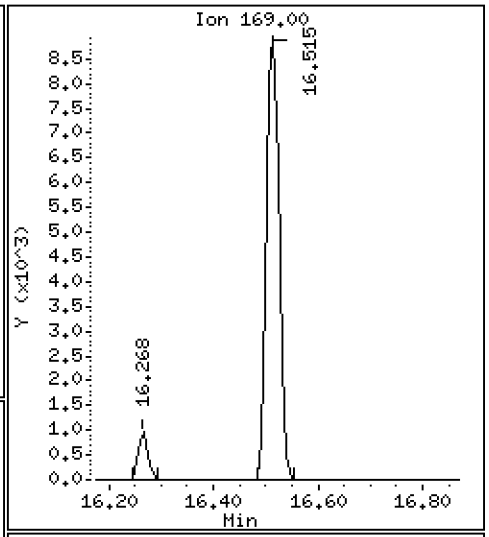
Concentration: 0.1931 ug/mL

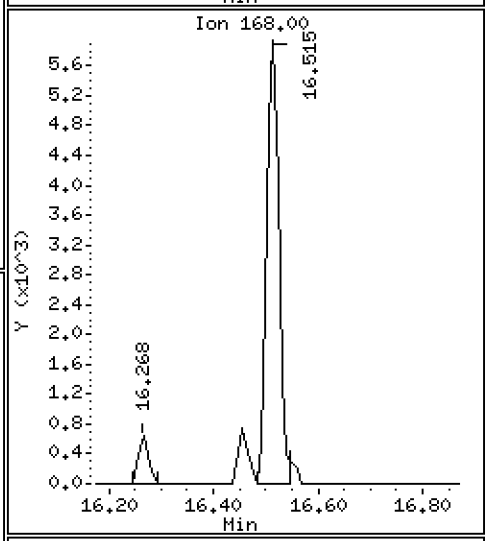


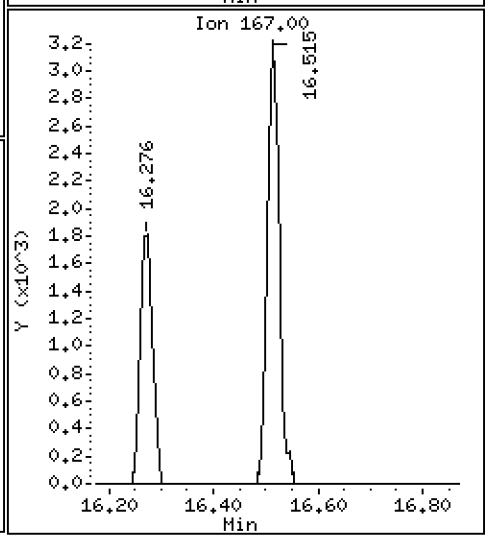












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

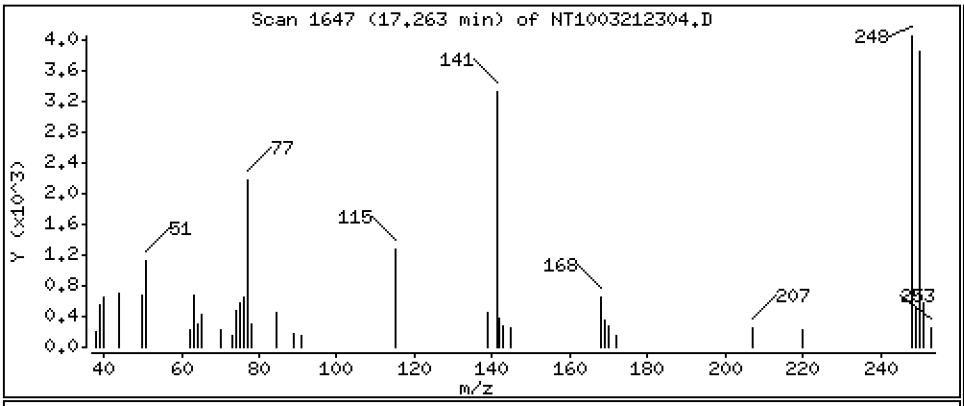
Operator: VTS

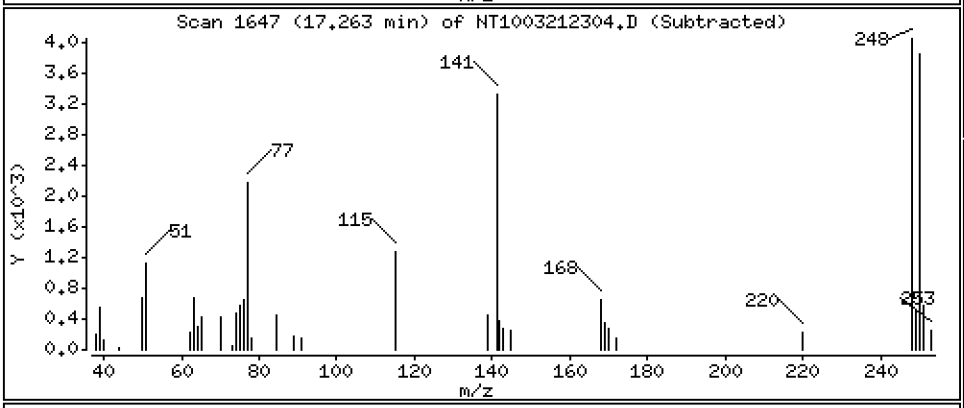
Column phase: ZB-5msi

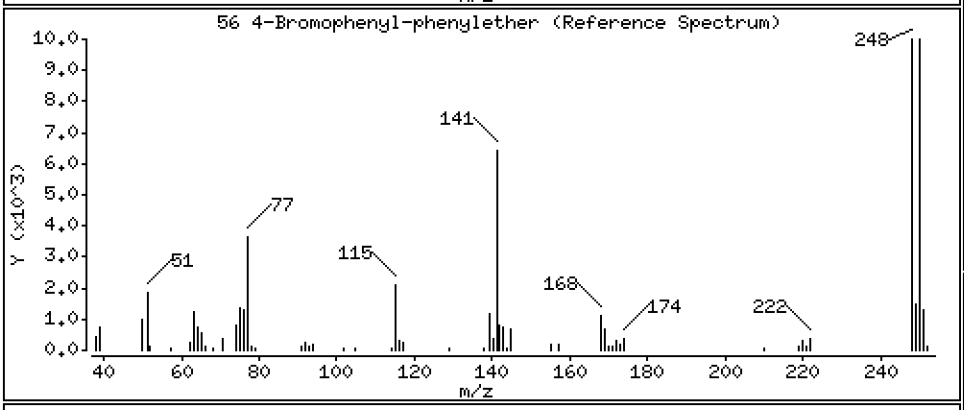
Column diameter: 0.25

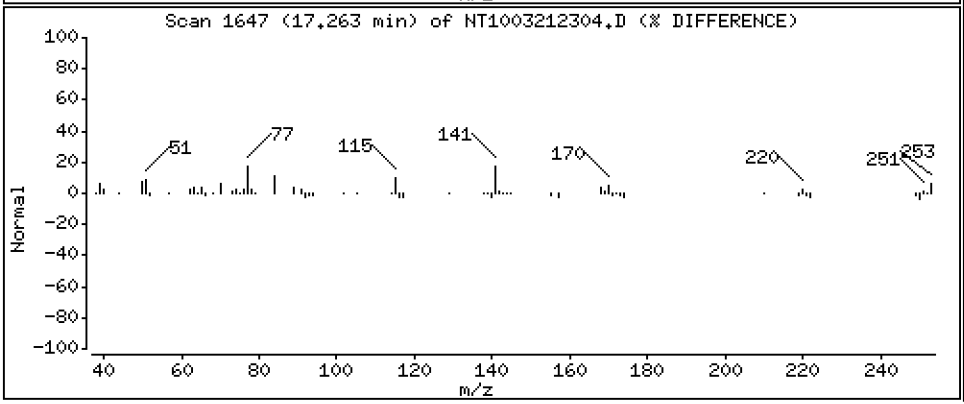
56 4-Bromophenyl-phenylether

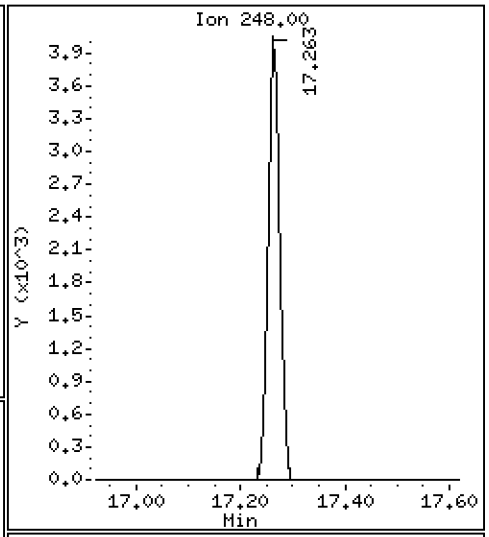
Concentration: 0.2029 ug/mL

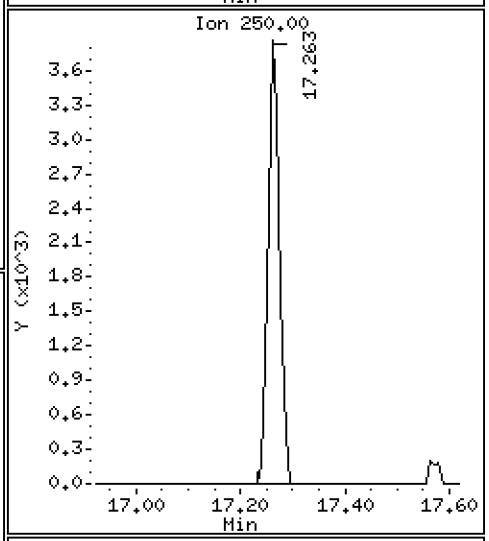


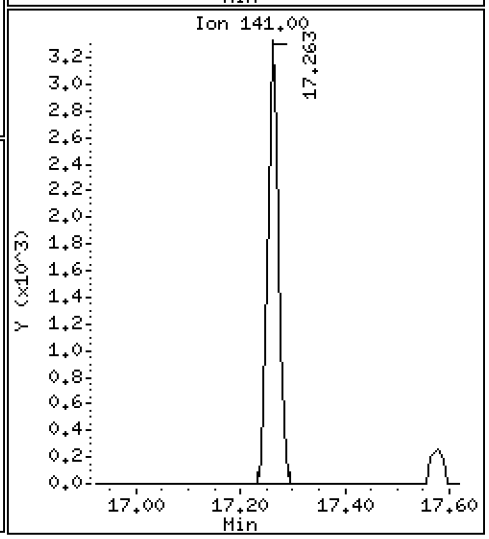












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

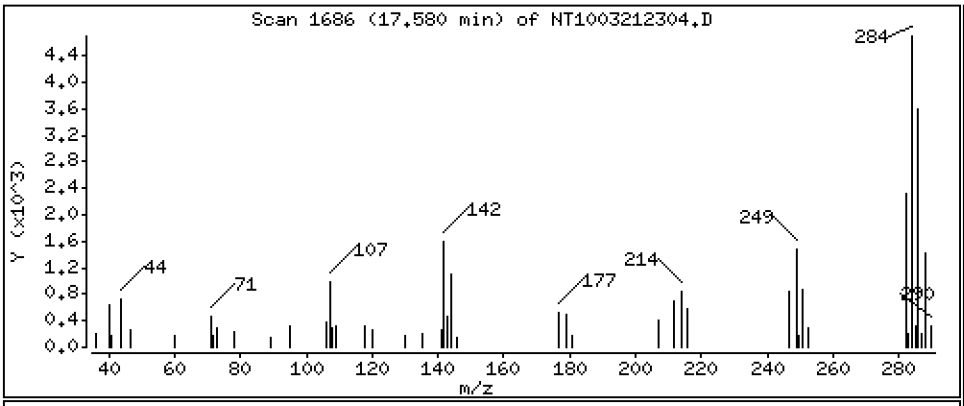
Operator: VTS

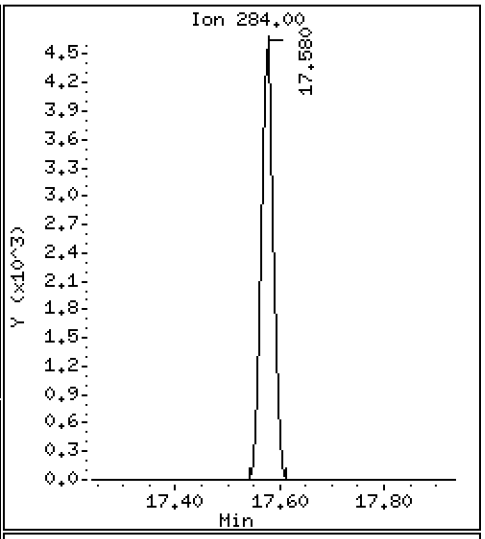
Column phase: ZB-5msi

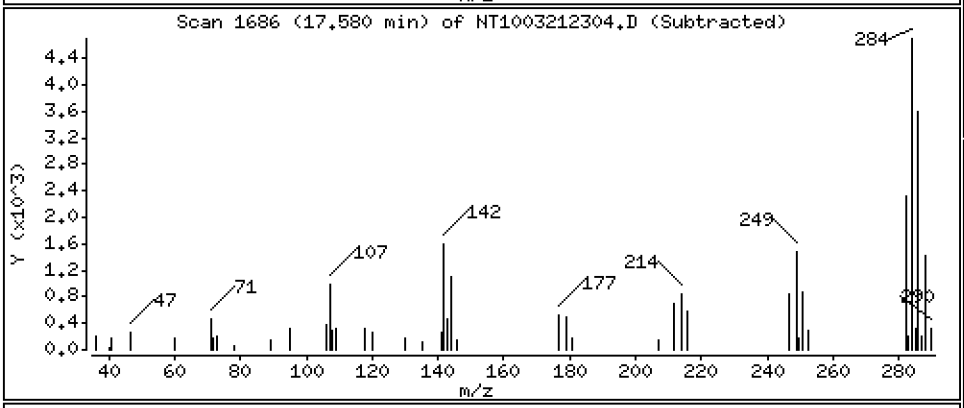
Column diameter: 0.25

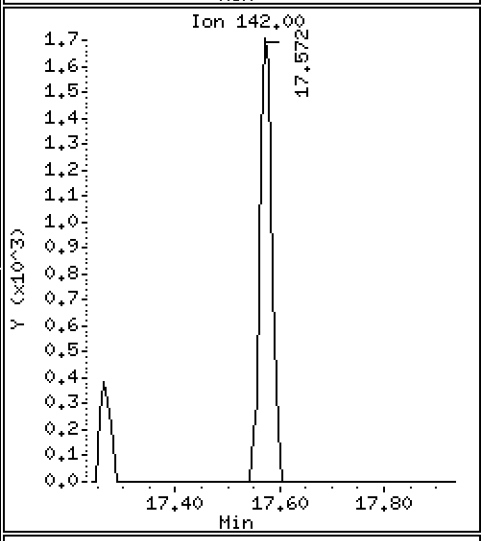
57 Hexachlorobenzene

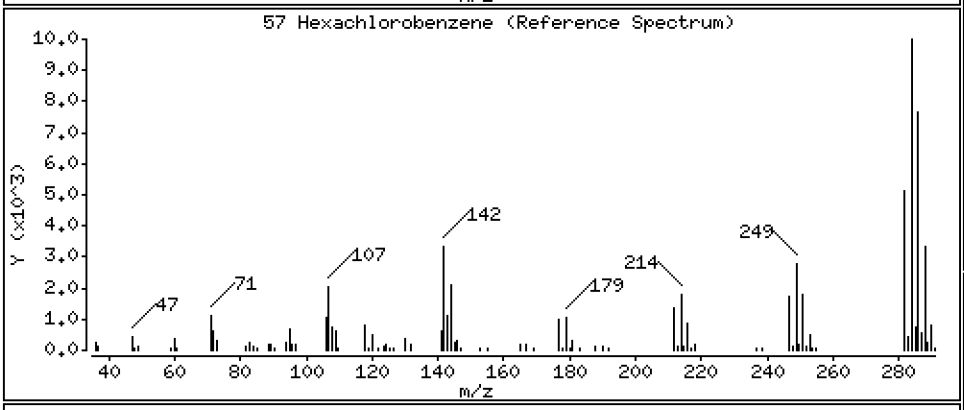
Concentration: 0.2308 ug/mL

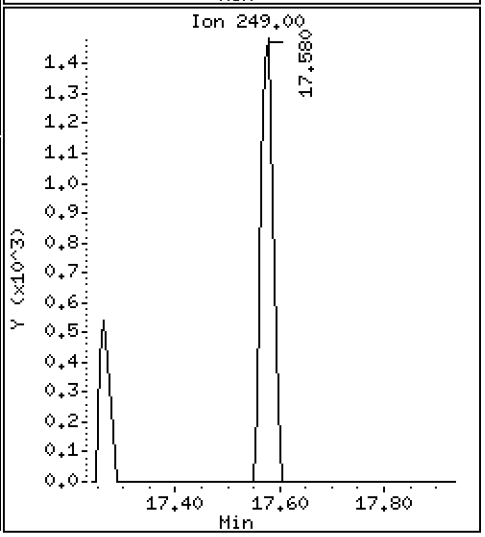


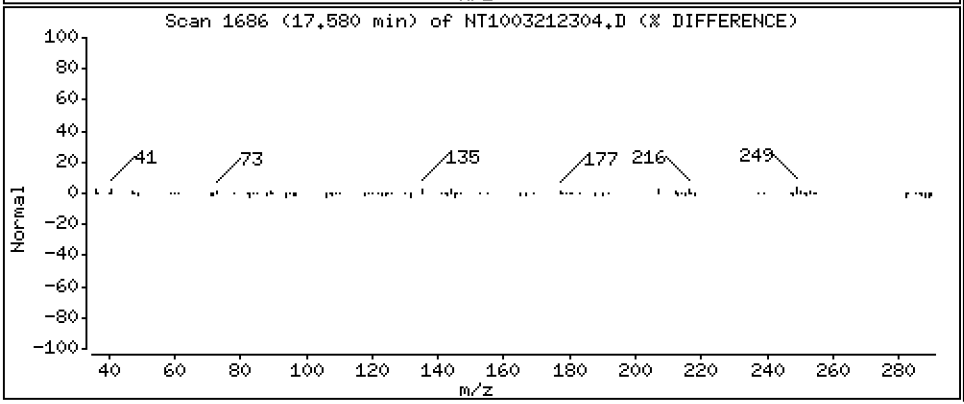












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

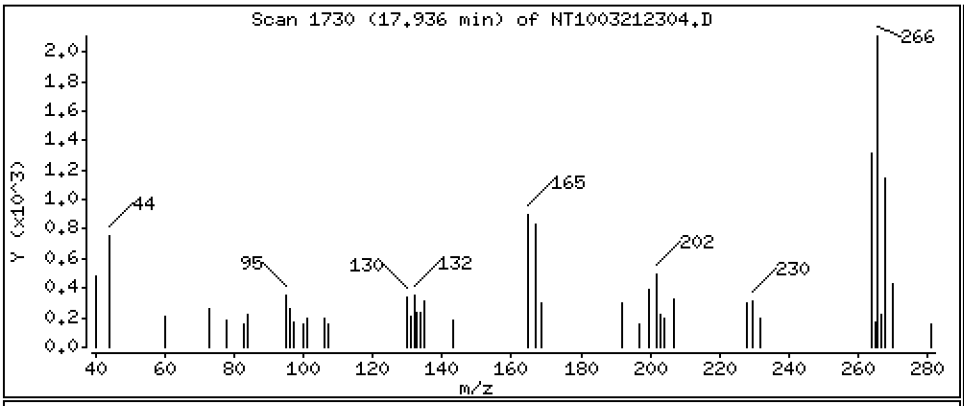
Operator: VTS

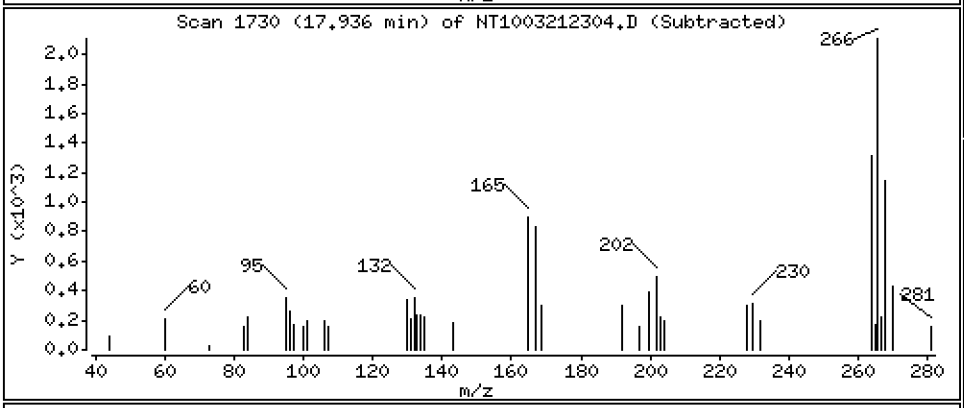
Column phase: ZB-5msi

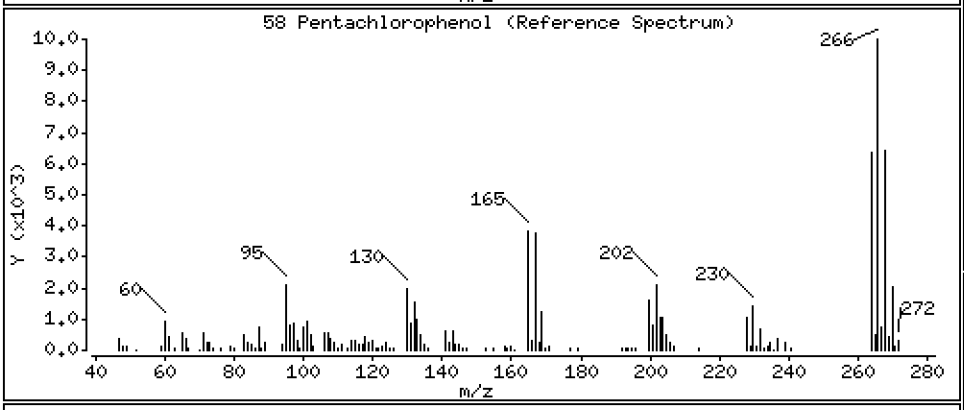
Column diameter: 0.25

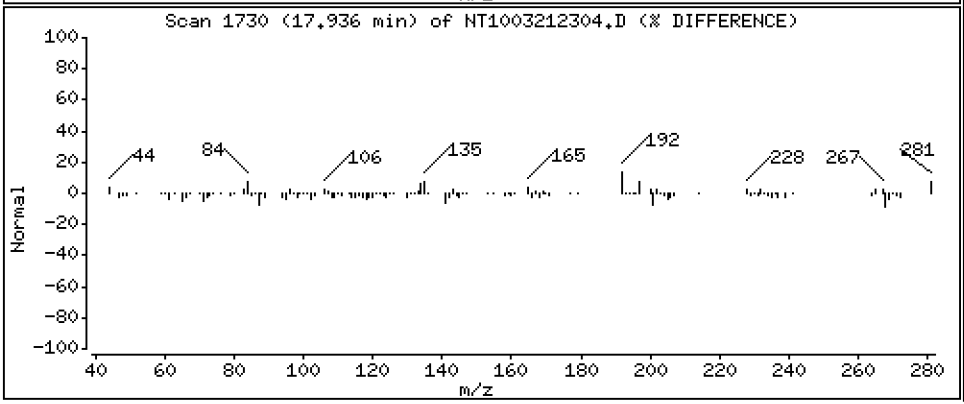
58 Pentachlorophenol

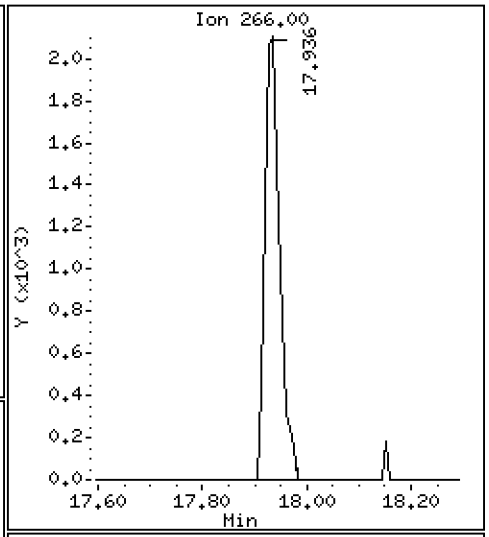
Concentration: 0.2082 ug/mL

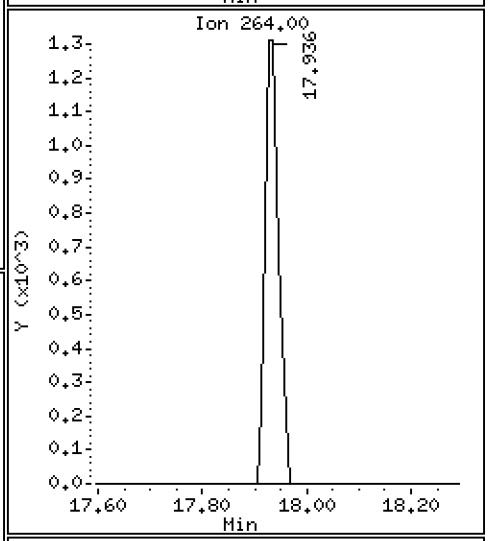


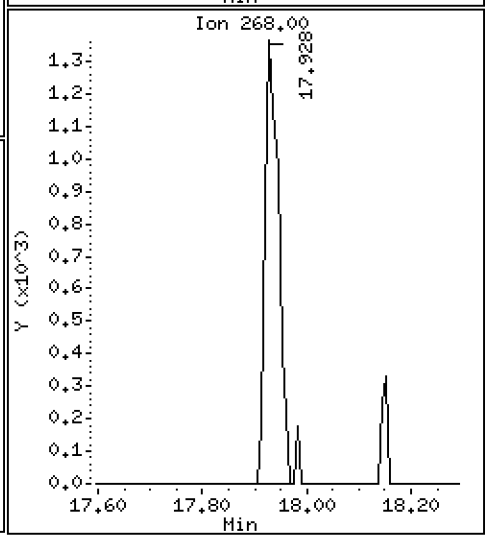












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

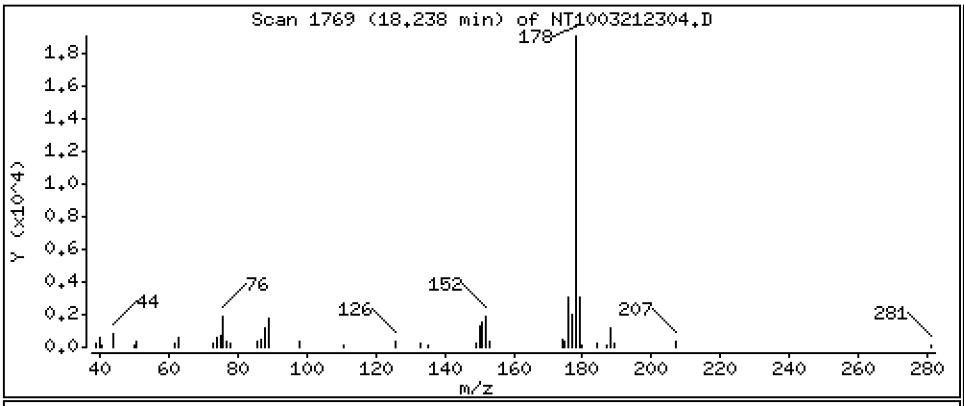
Operator: VTS

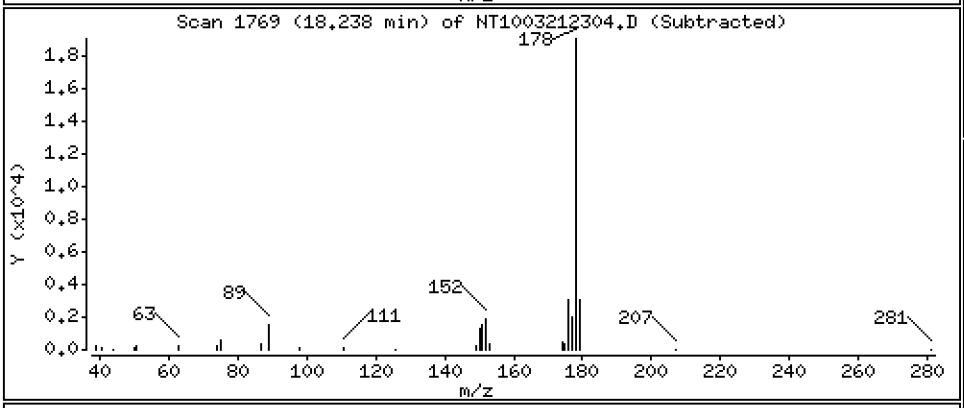
Column phase: ZB-5msi

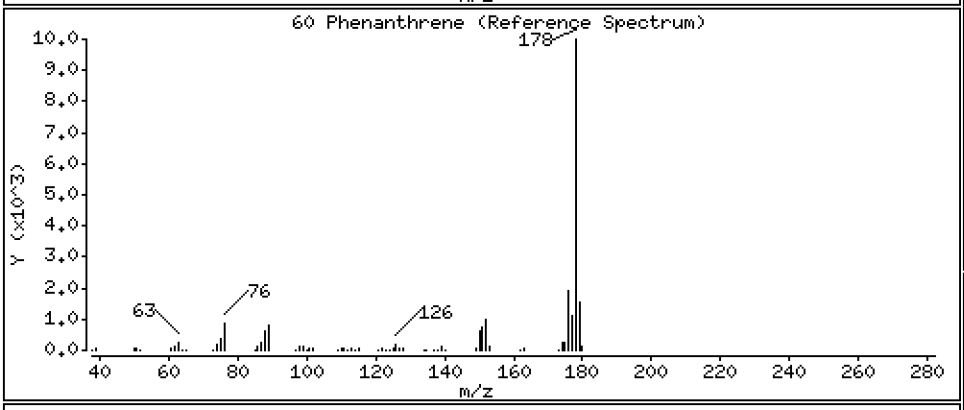
Column diameter: 0.25

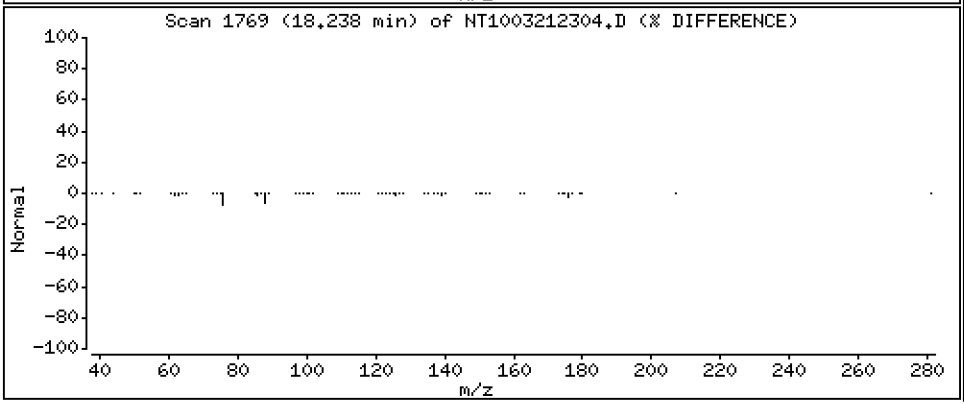
60 Phenanthrene

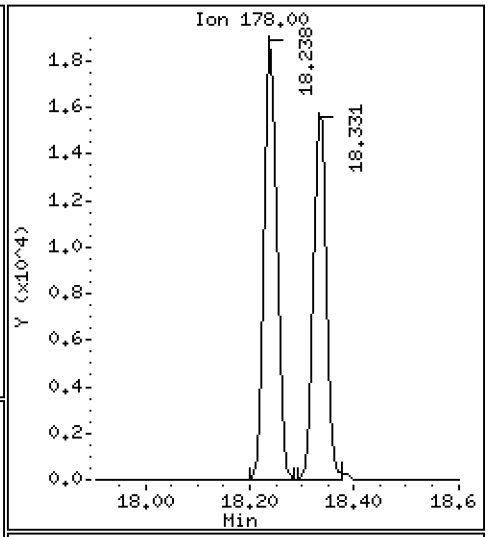
Concentration: 0.2068 ug/mL

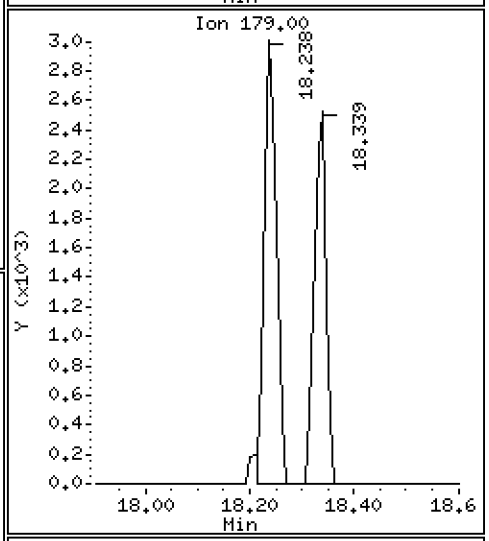


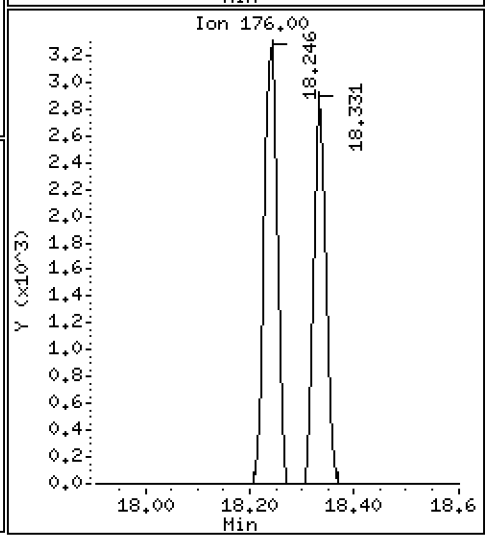












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212304.D

Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

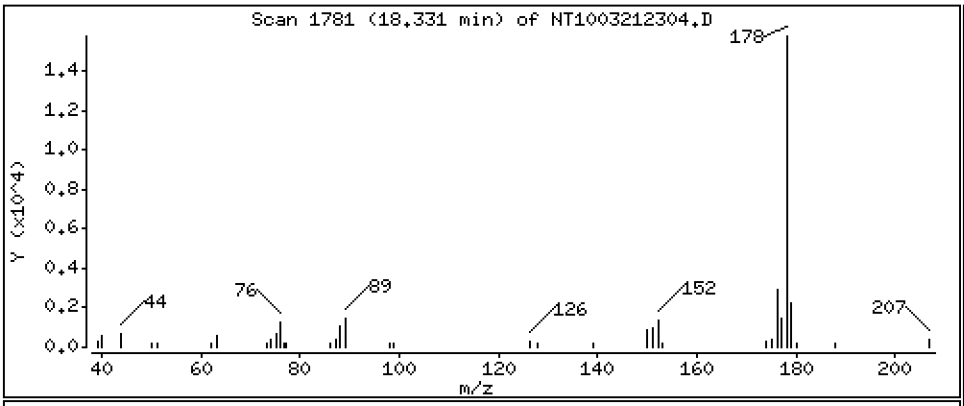
Operator: VTS

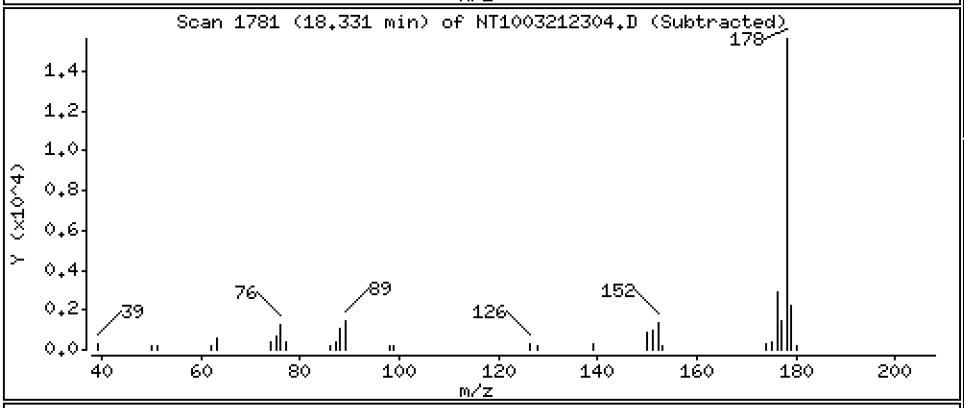
Column phase: ZB-5msi

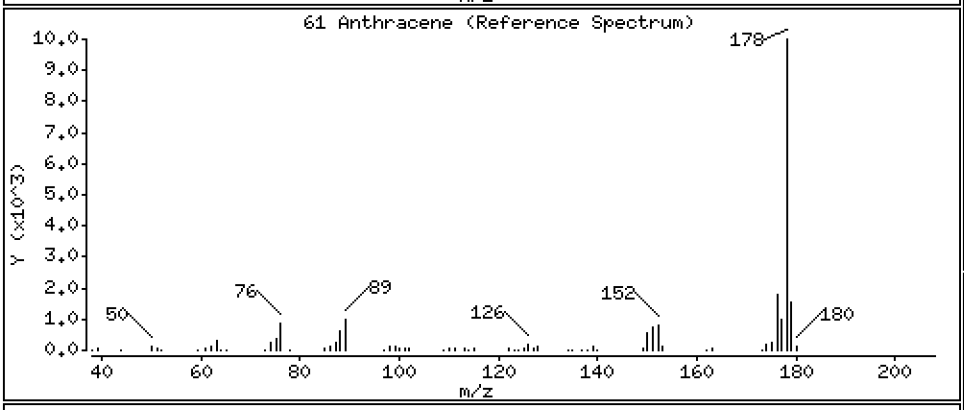
Column diameter: 0.25

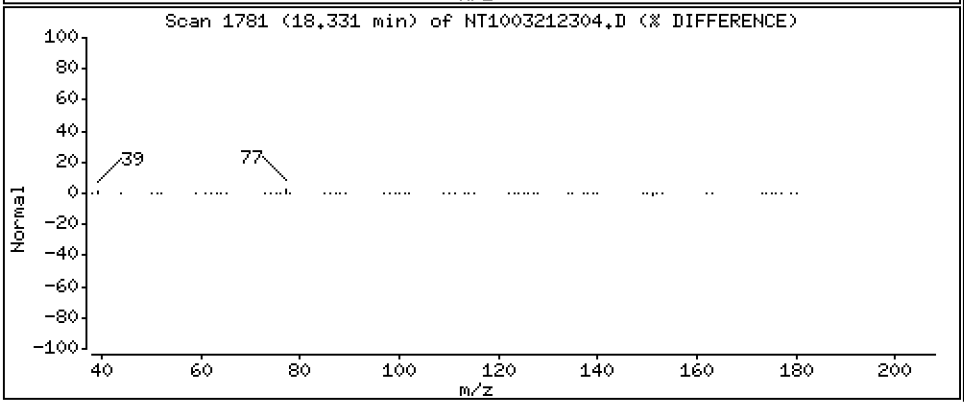
61 Anthracene

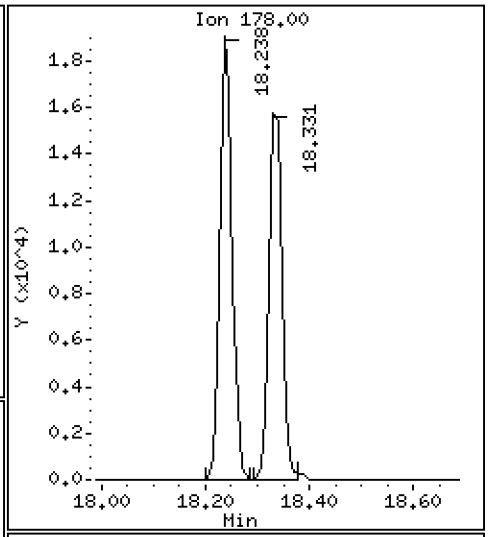
Concentration: 0.1795 ug/mL

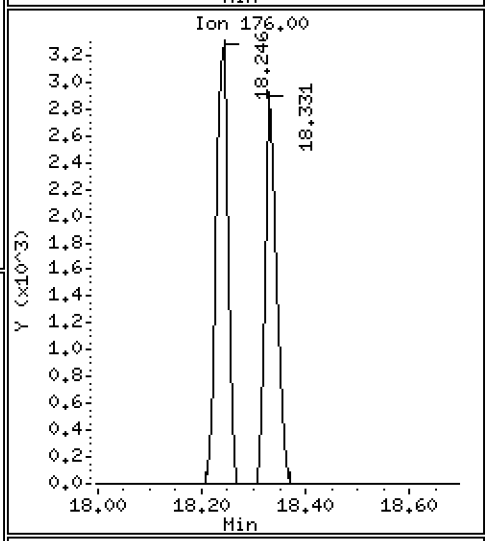


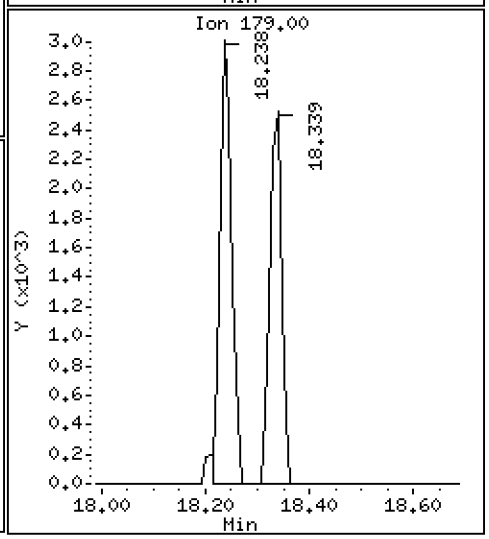












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

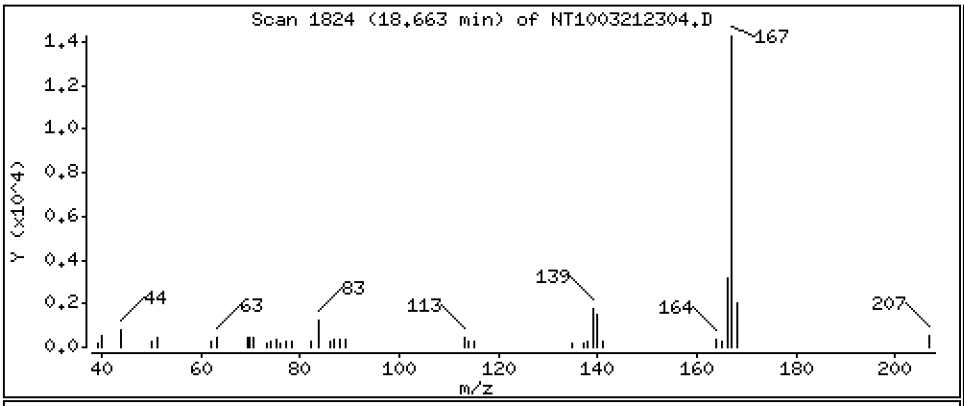
Operator: VTS

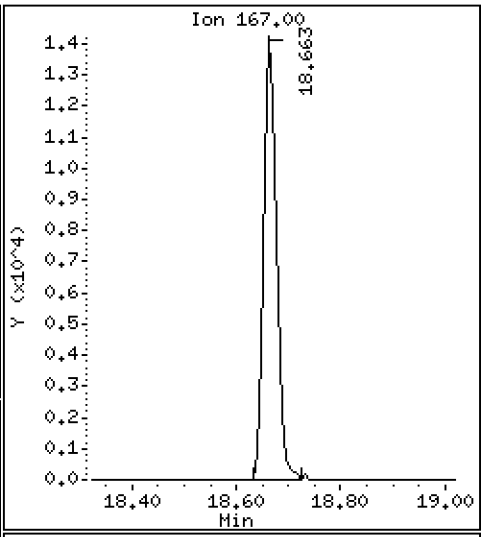
Column phase: ZB-5msi

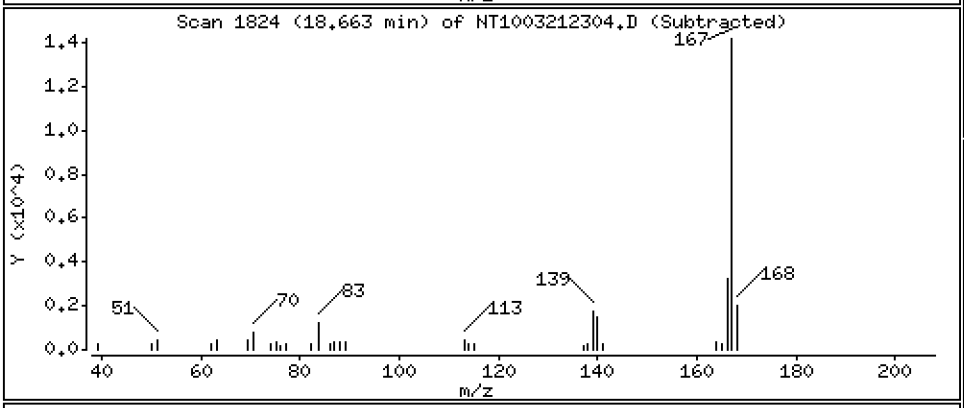
Column diameter: 0.25

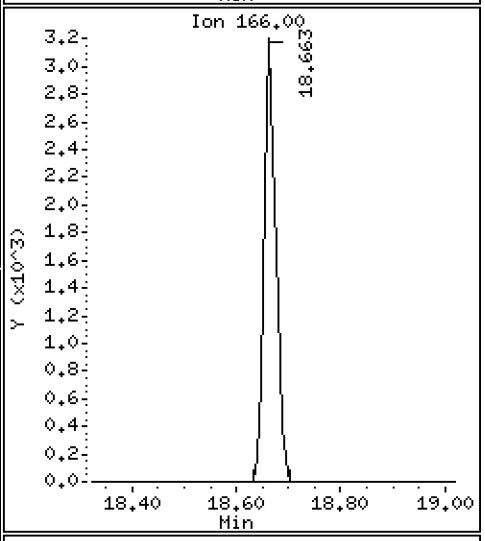
62 Carbazole

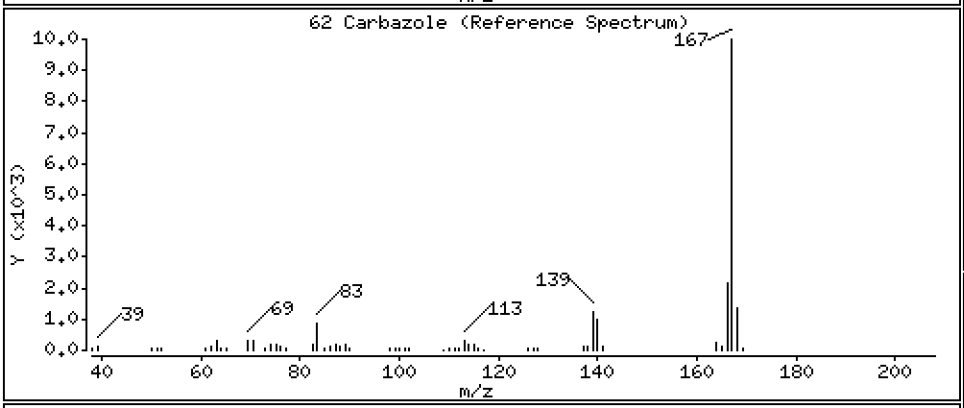
Concentration: 0.1817 ug/mL

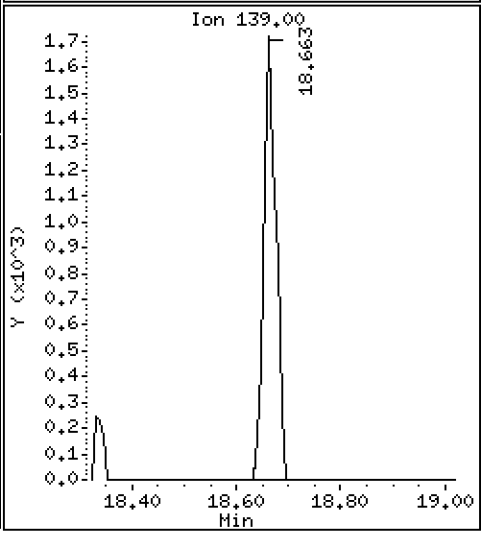


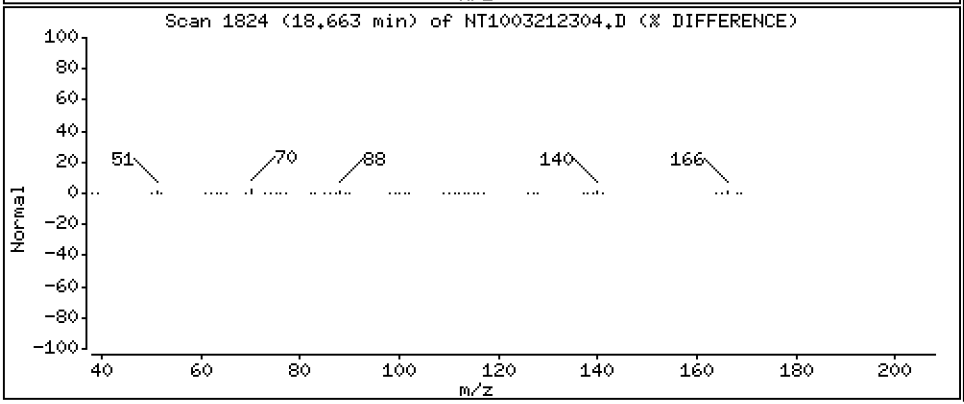












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212304.D

Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

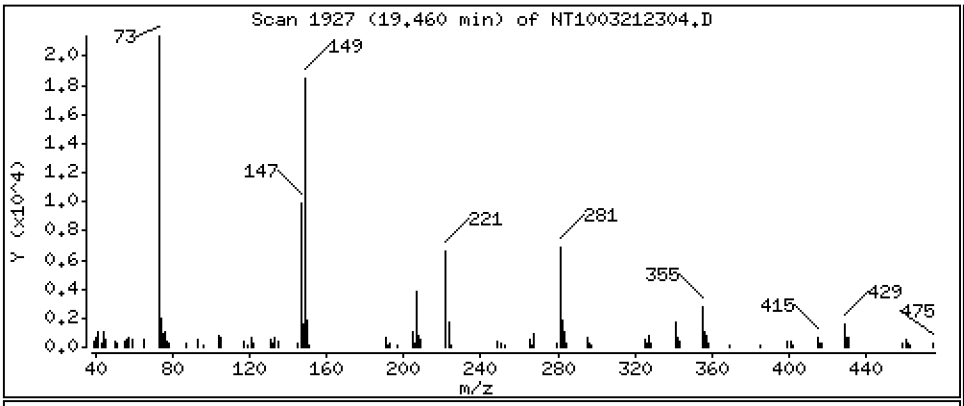
Operator: VTS

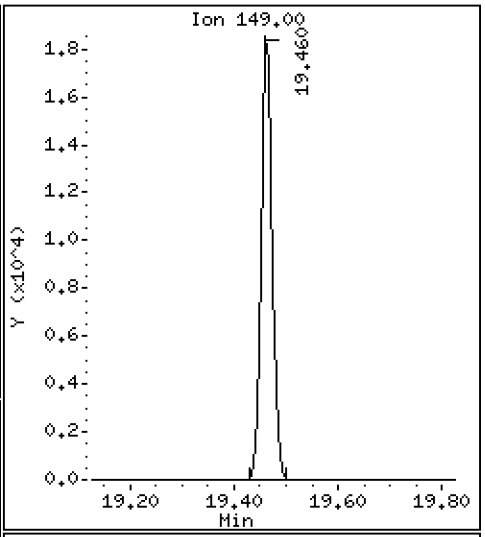
Column phase: ZB-5msi

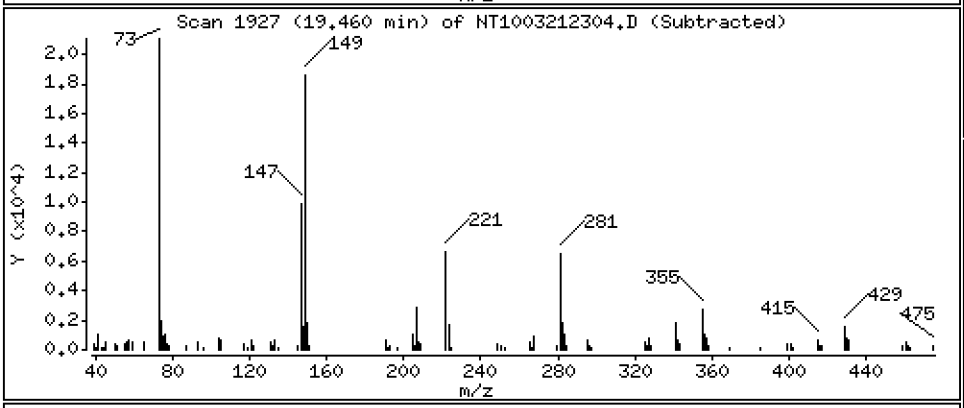
Column diameter: 0.25

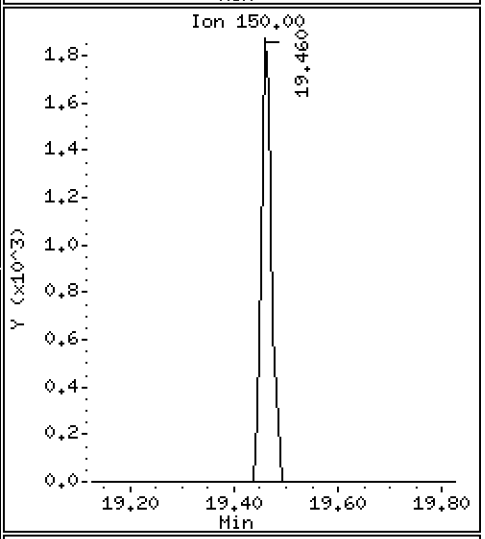
63 Di-n-butylphthalate

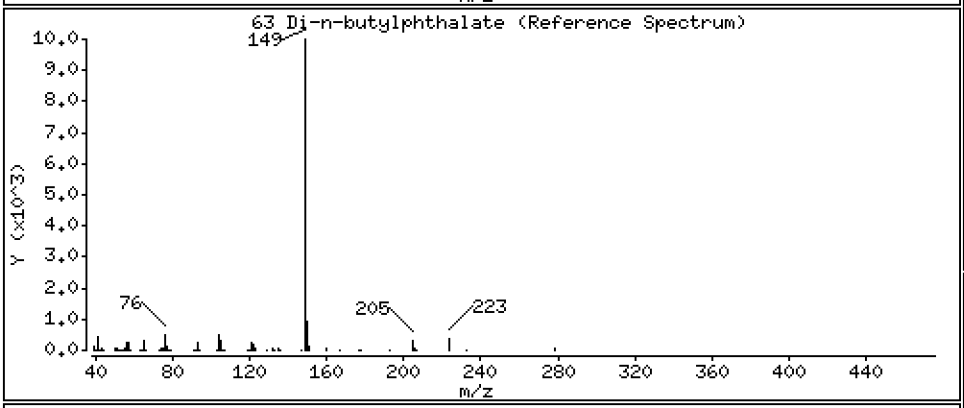
Concentration: 0.1564 ug/mL

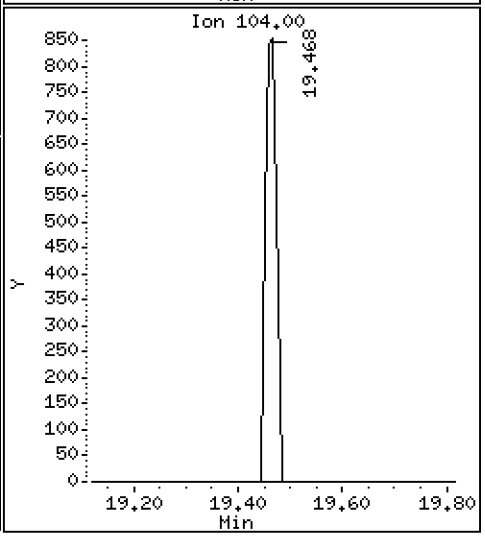


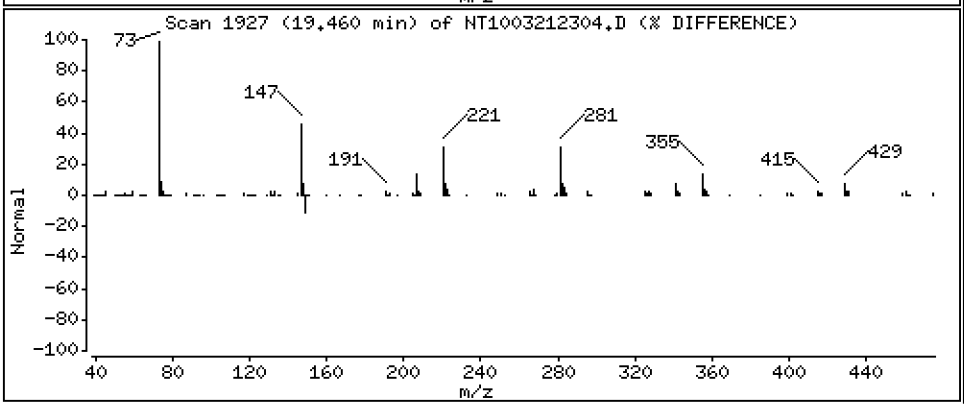












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

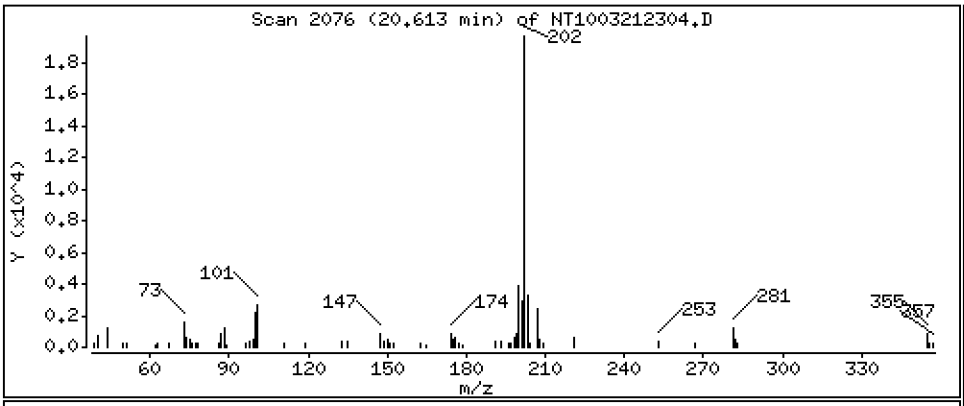
Operator: VTS

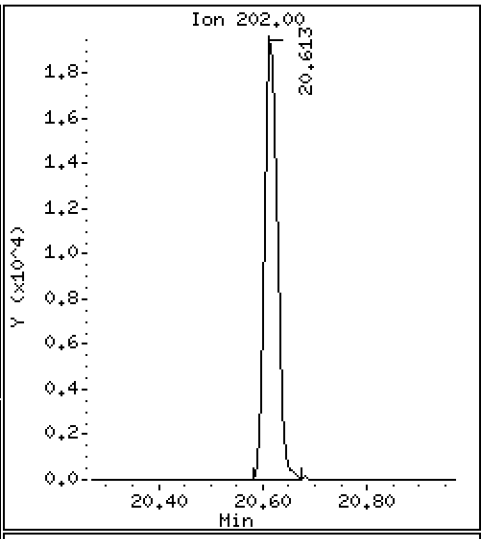
Column phase: ZB-5msi

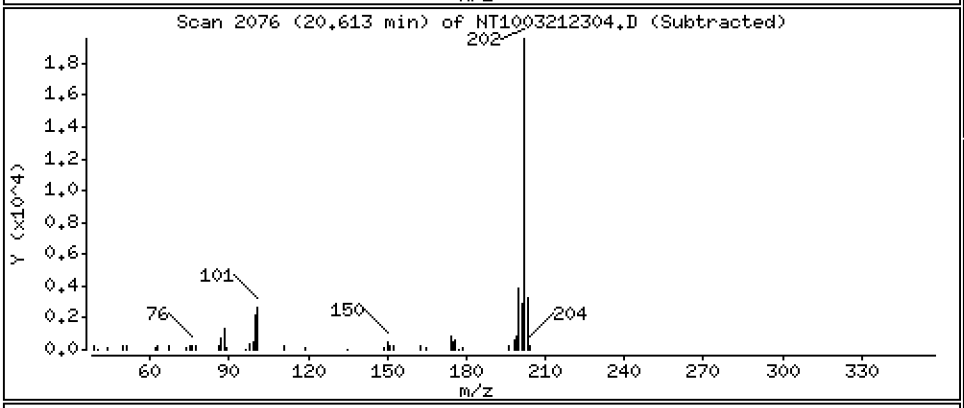
Column diameter: 0.25

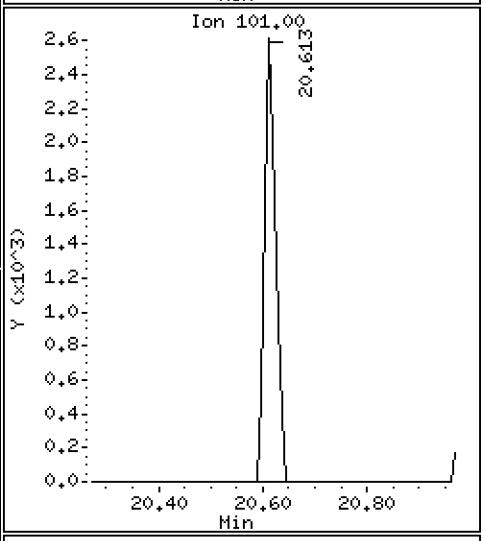
64 Fluoranthene

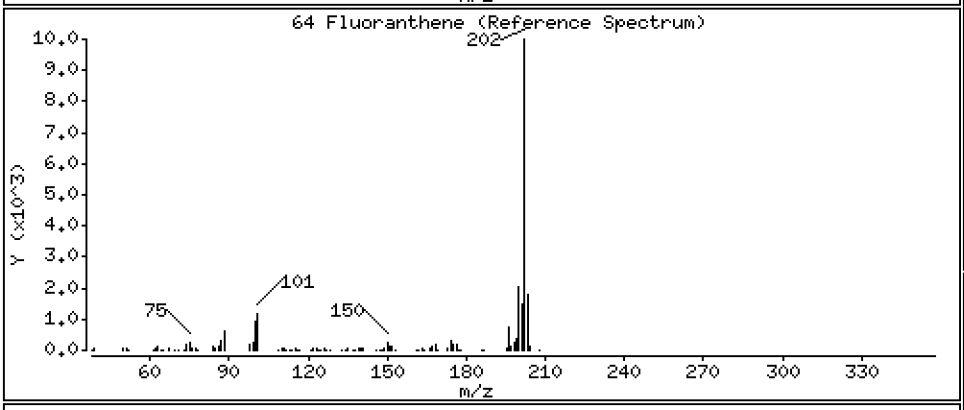
Concentration: 0.1712 ug/mL

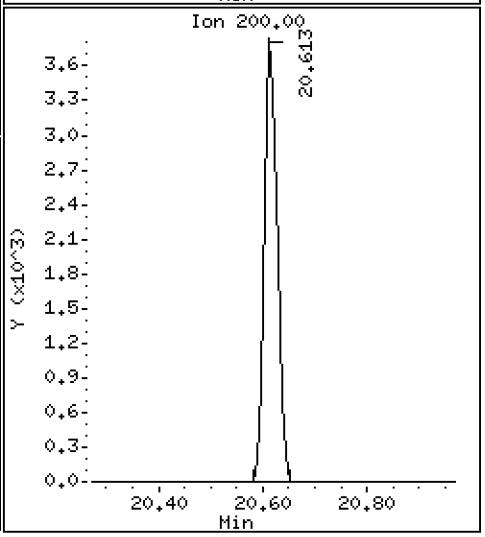


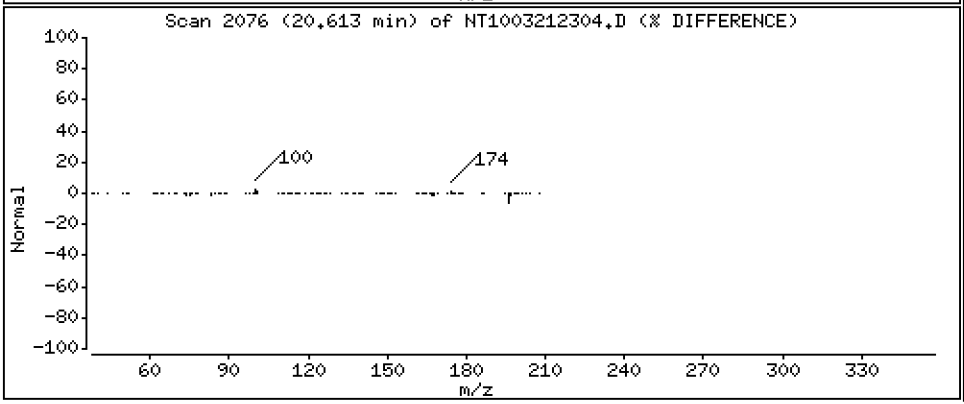












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

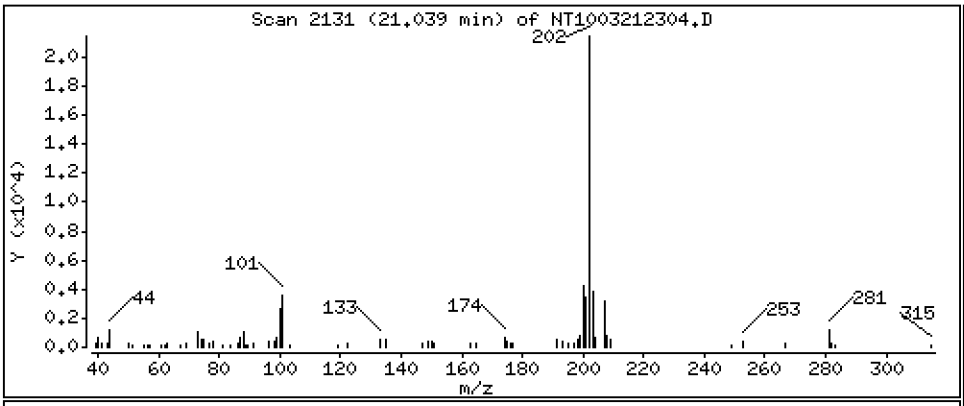
Operator: VTS

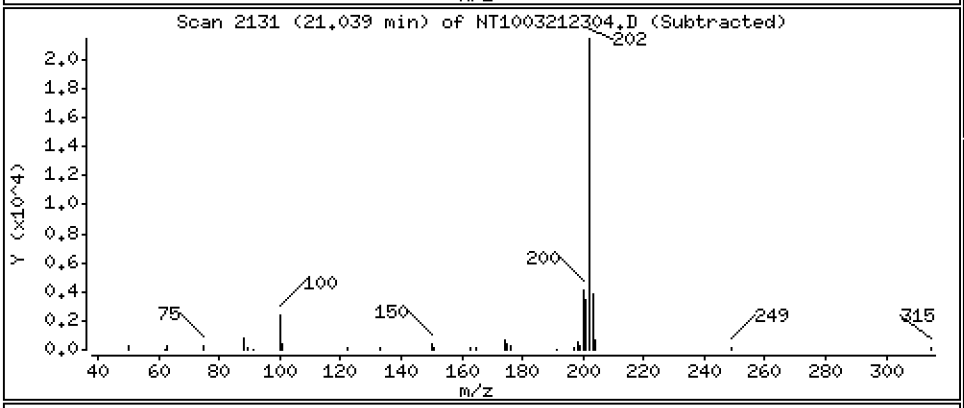
Column phase: ZB-5msi

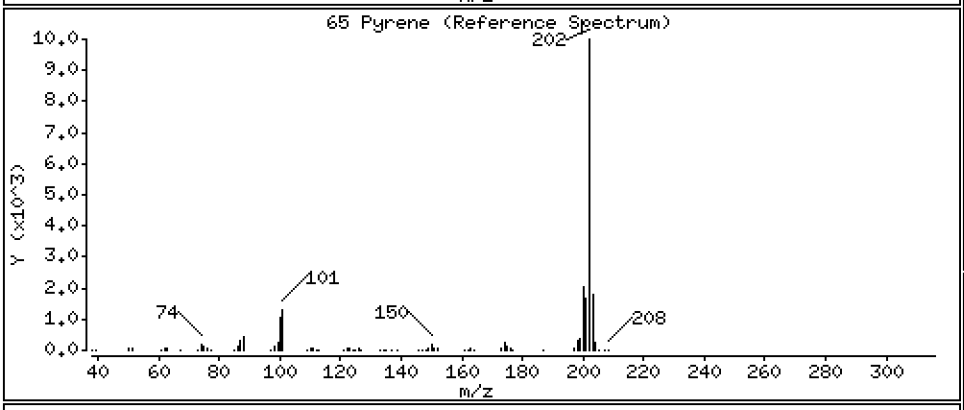
Column diameter: 0.25

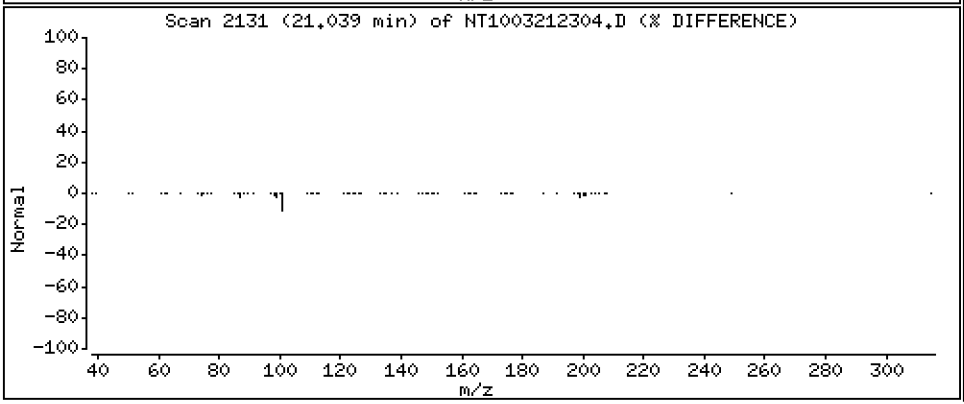
65 Pyrene

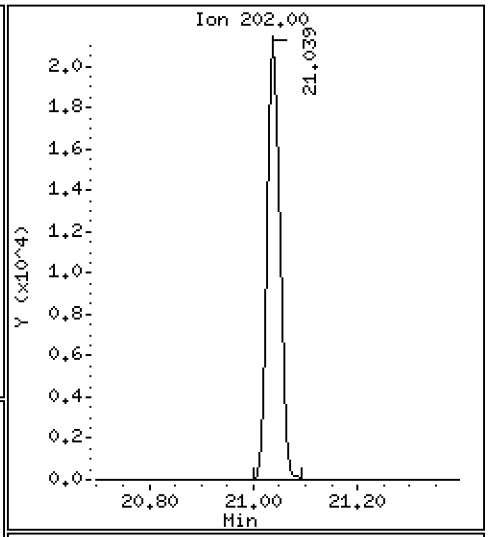
Concentration: 0.1828 ug/mL

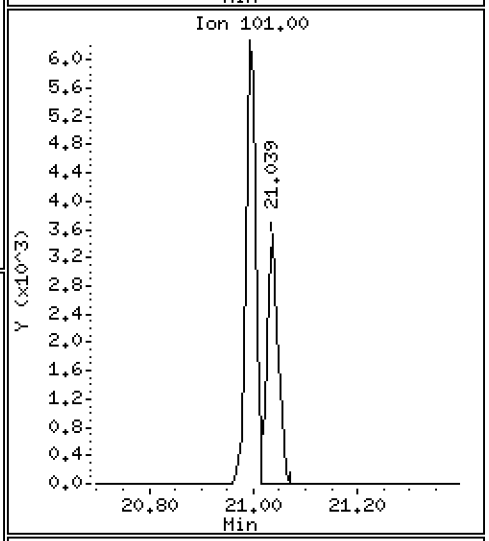


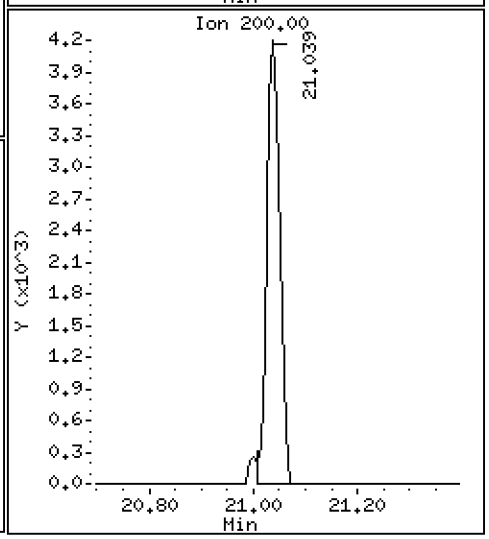












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

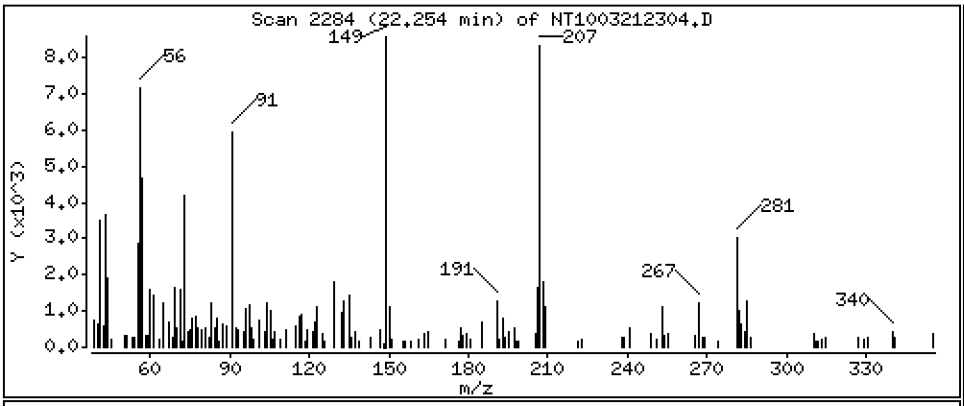
Operator: VTS

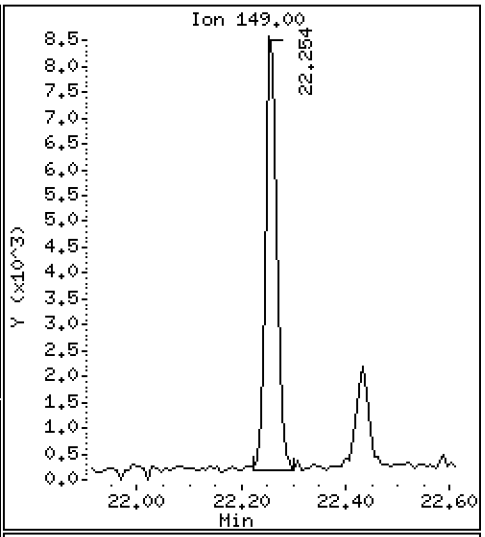
Column phase: ZB-5msi

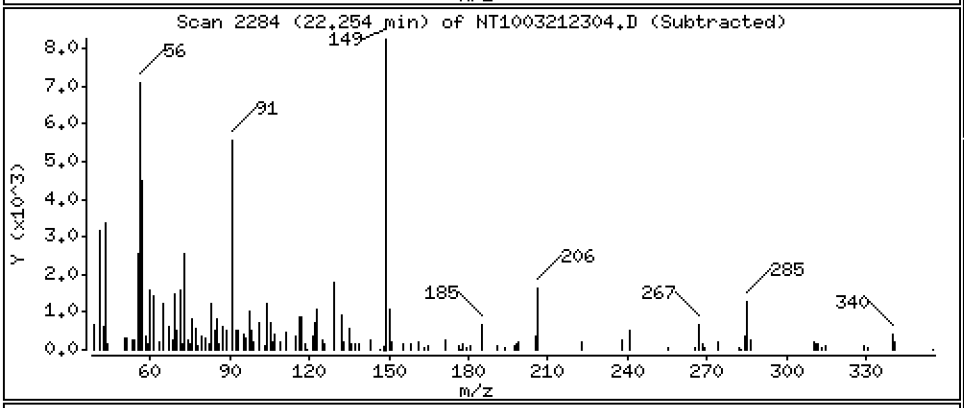
Column diameter: 0.25

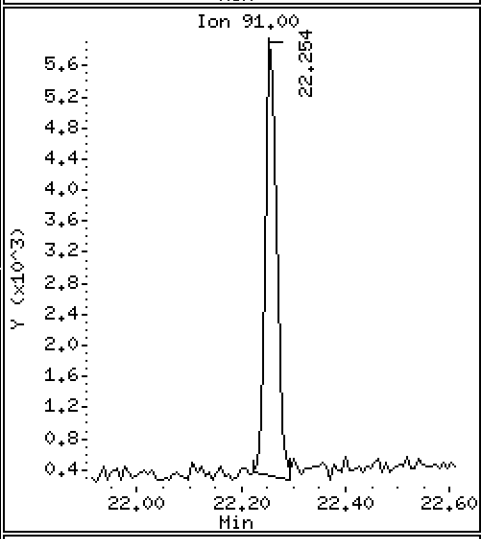
67 Butylbenzylphthalate

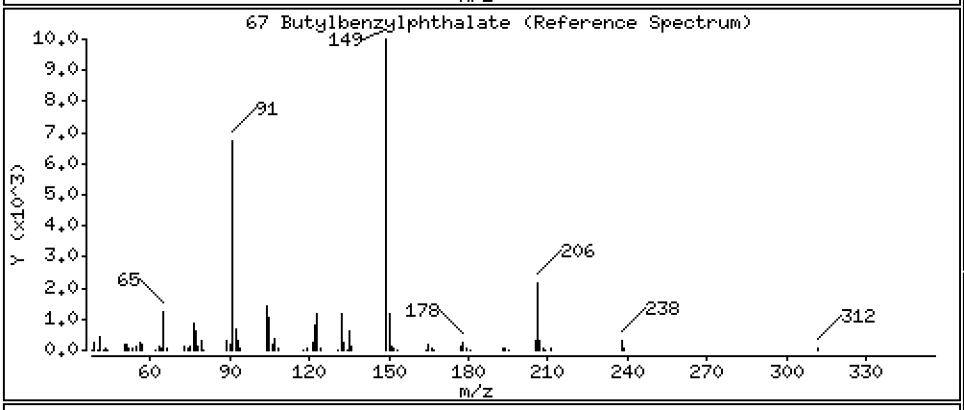
Concentration: 0.1775 ug/mL

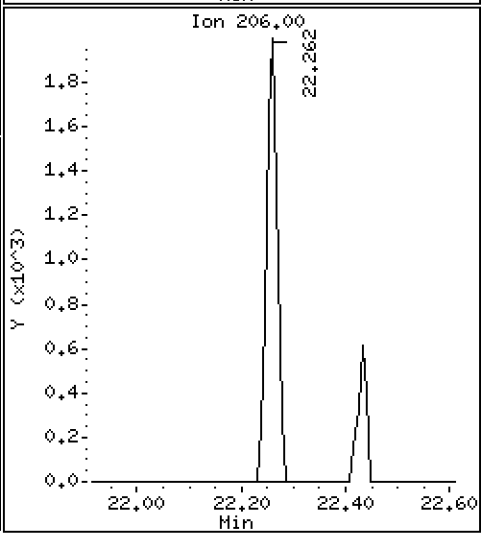


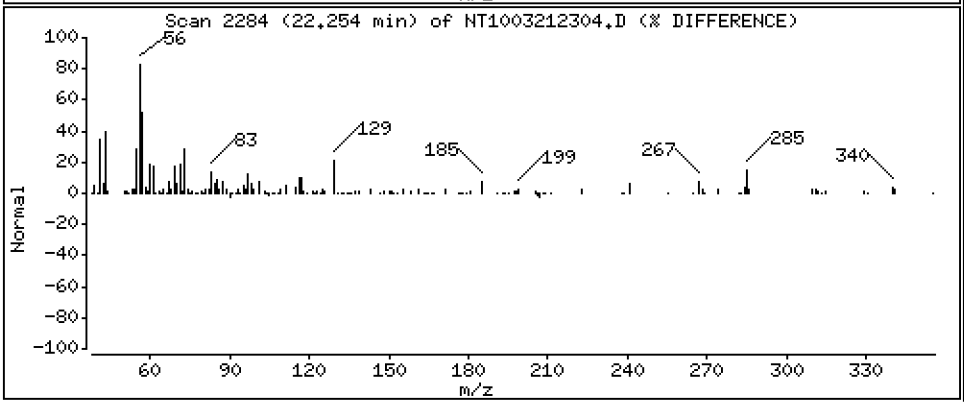












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

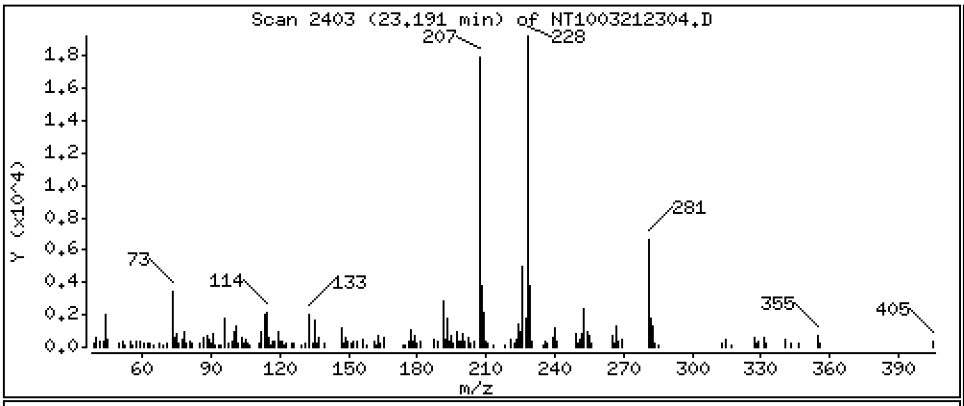
Operator: VTS

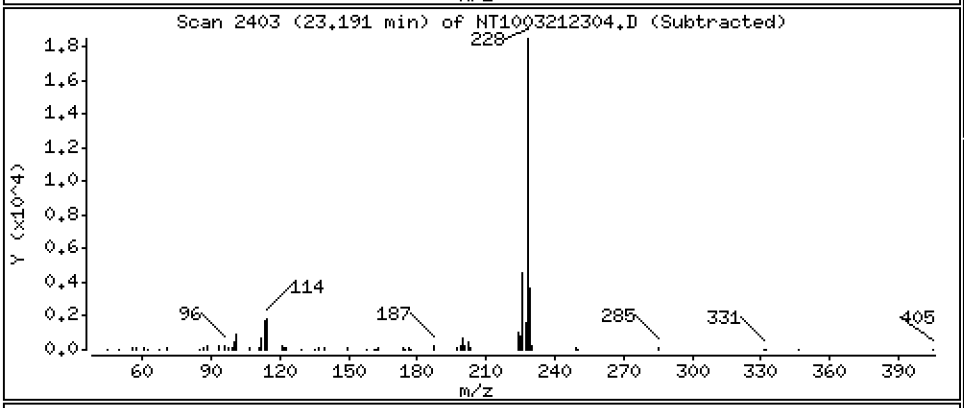
Column phase: ZB-5msi

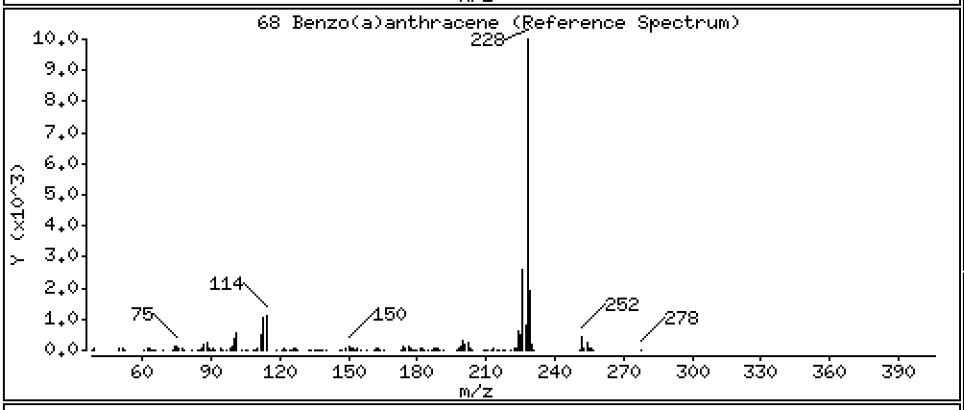
Column diameter: 0.25

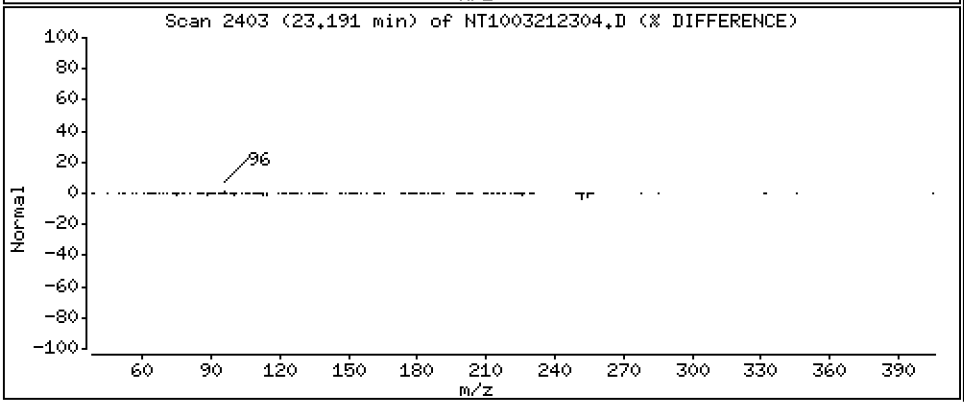
68 Benzo(a)anthracene

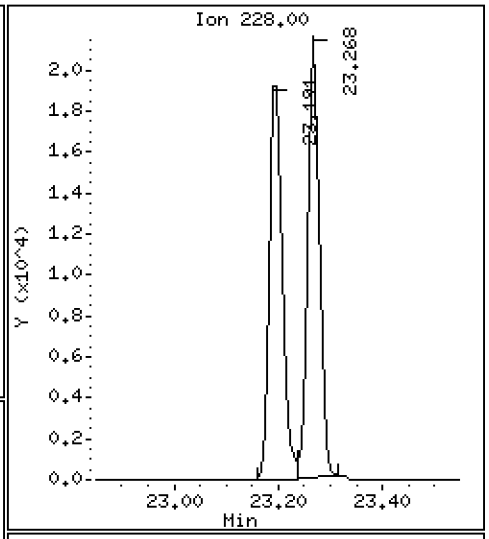
Concentration: 0.1959 ug/mL

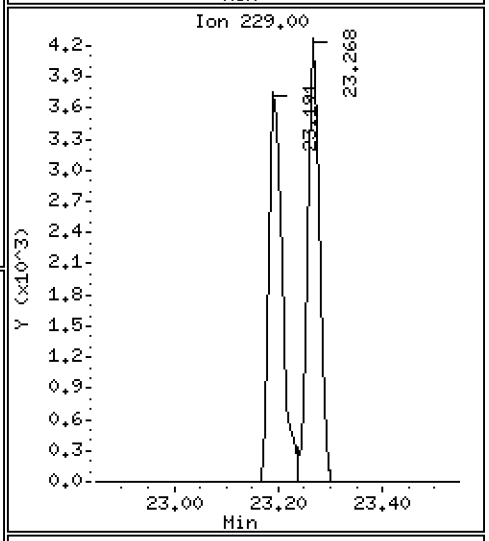


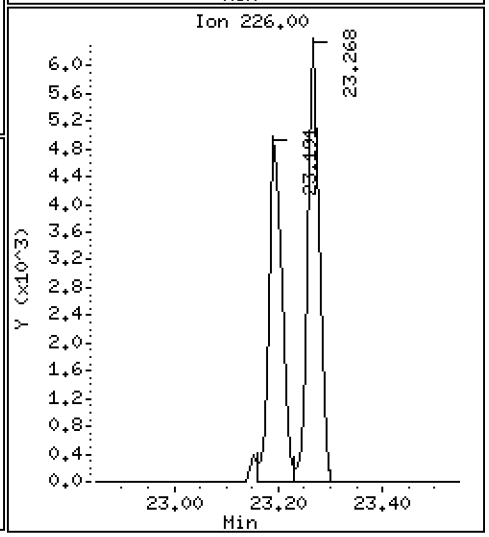












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212304.D

Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

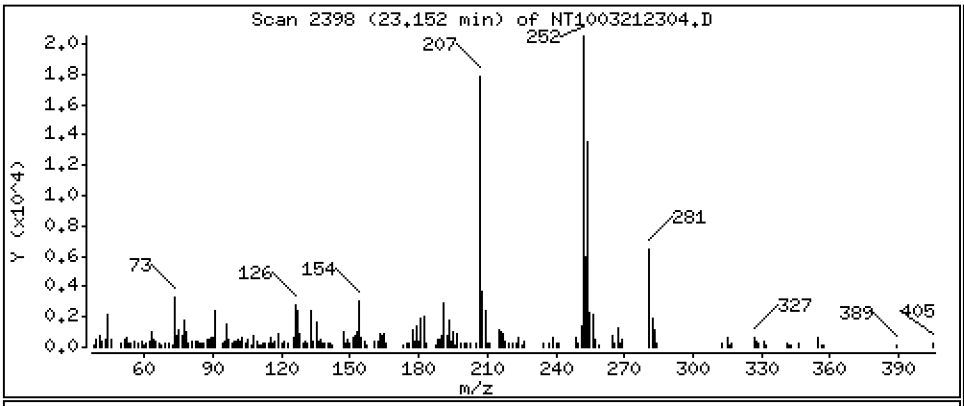
Operator: VTS

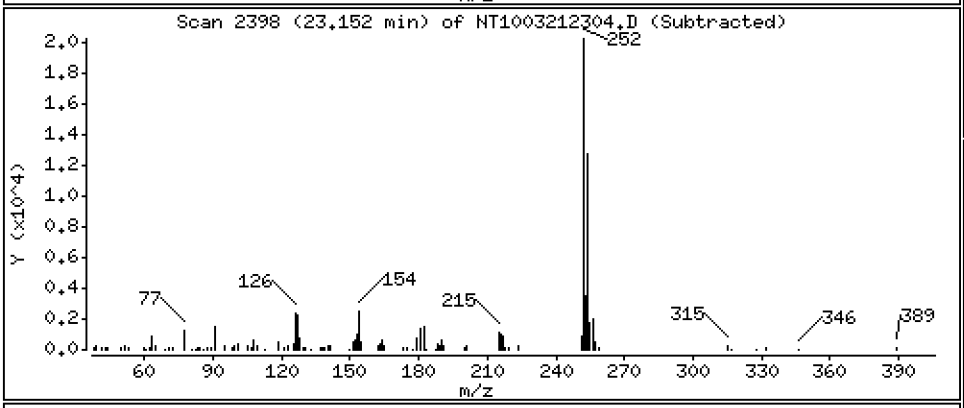
Column phase: ZB-5msi

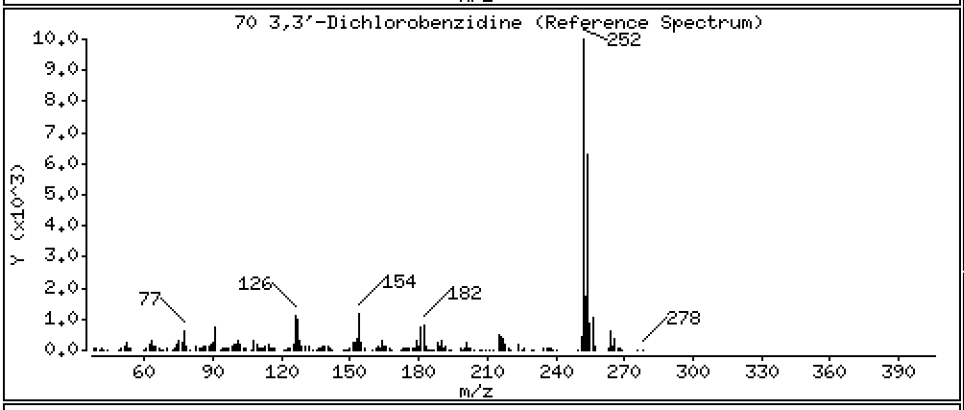
Column diameter: 0.25

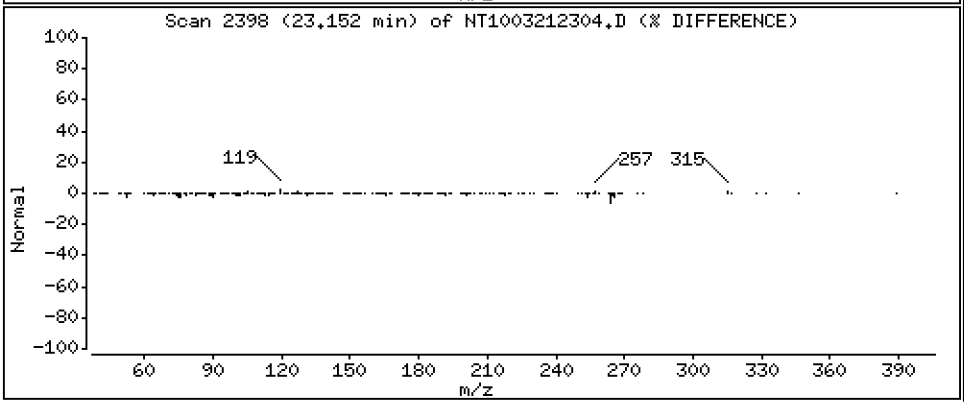
70 3,3'-Dichlorobenzidine

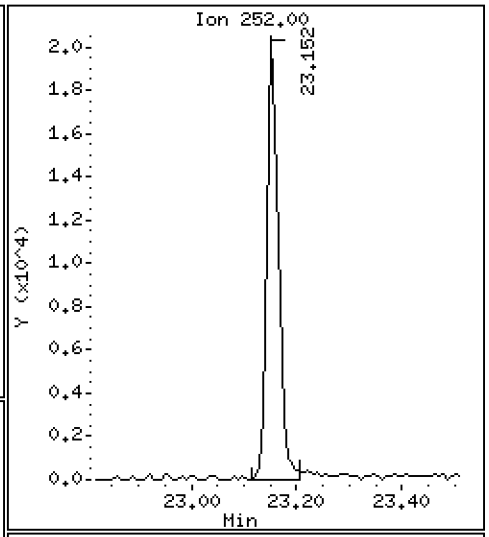
Concentration: 0.5782 ug/mL

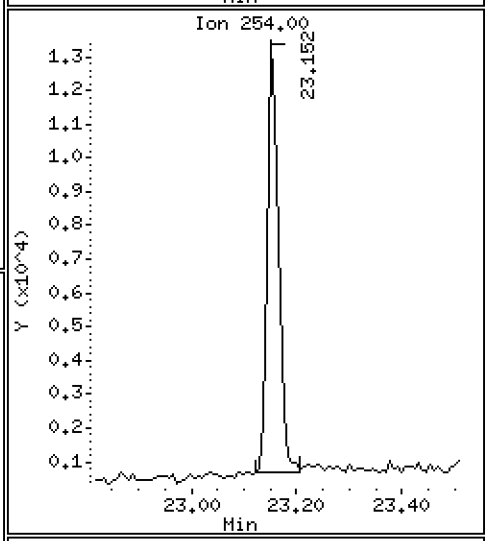


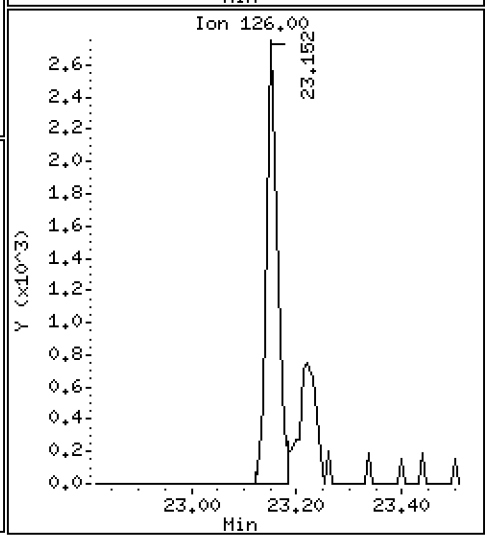












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

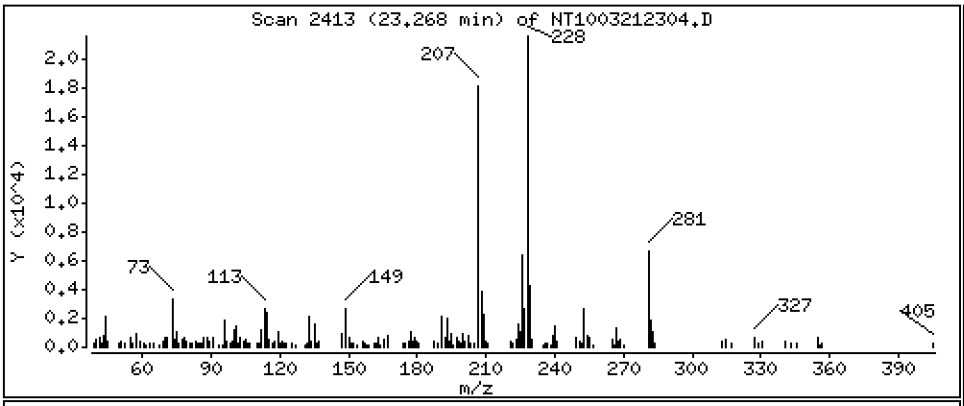
Operator: VTS

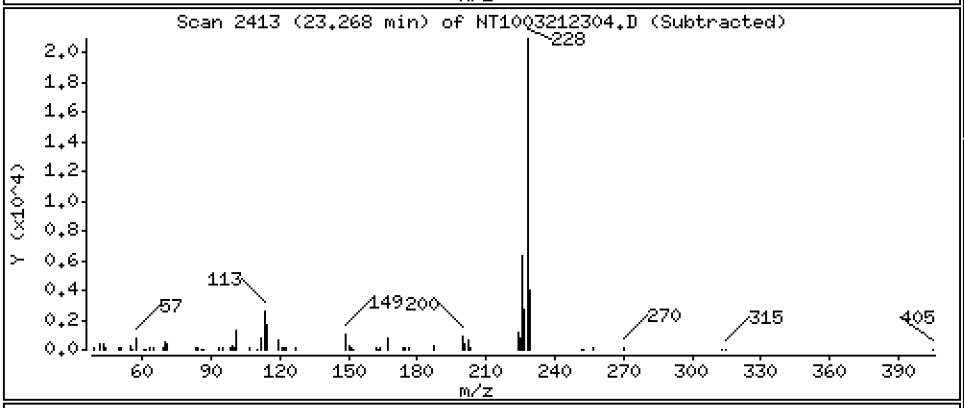
Column phase: ZB-5msi

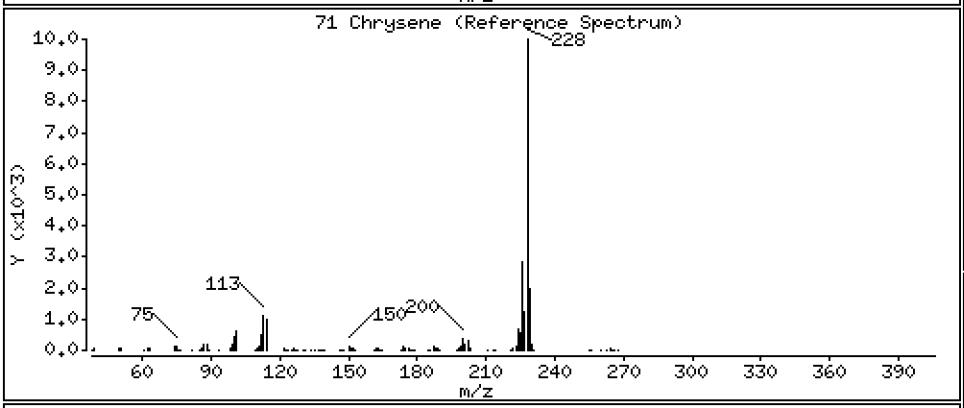
Column diameter: 0.25

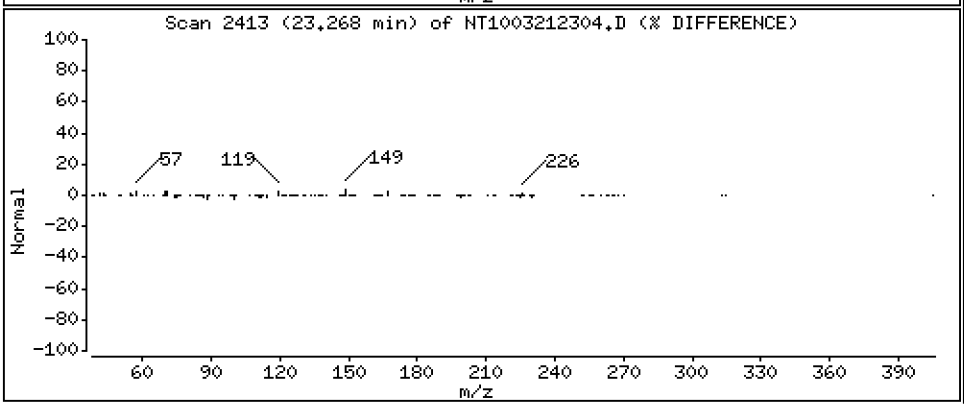
71 Chrysene

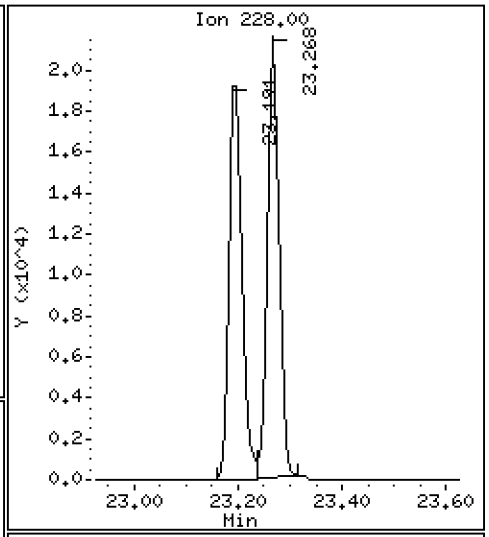
Concentration: 0.2008 ug/mL

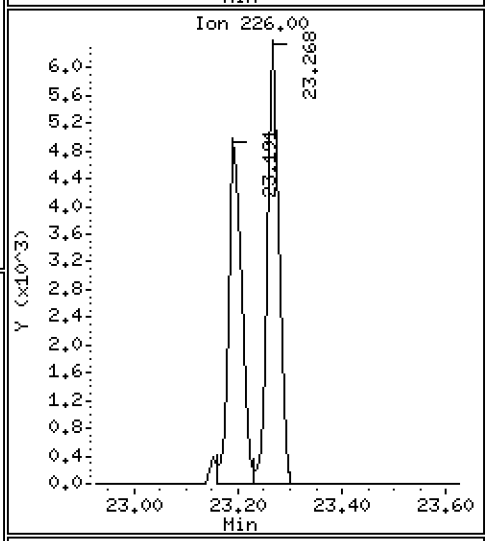


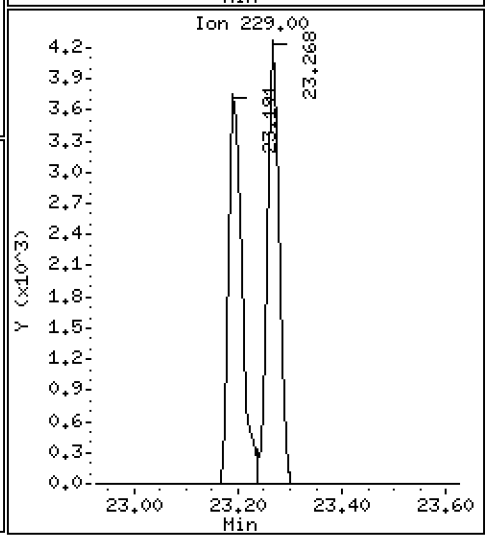












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

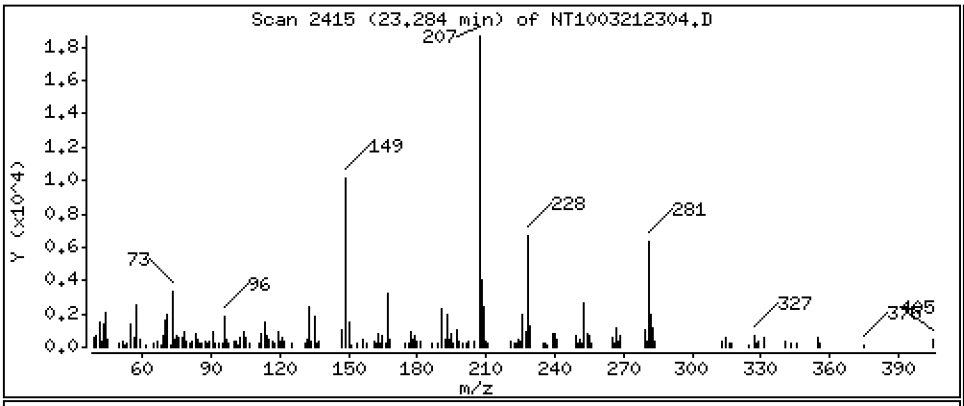
Operator: VTS

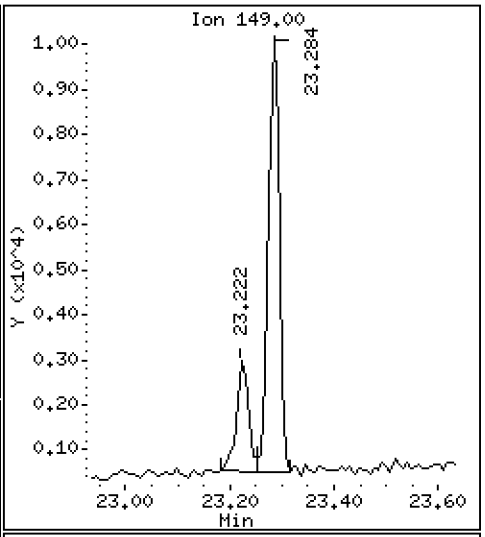
Column phase: ZB-5msi

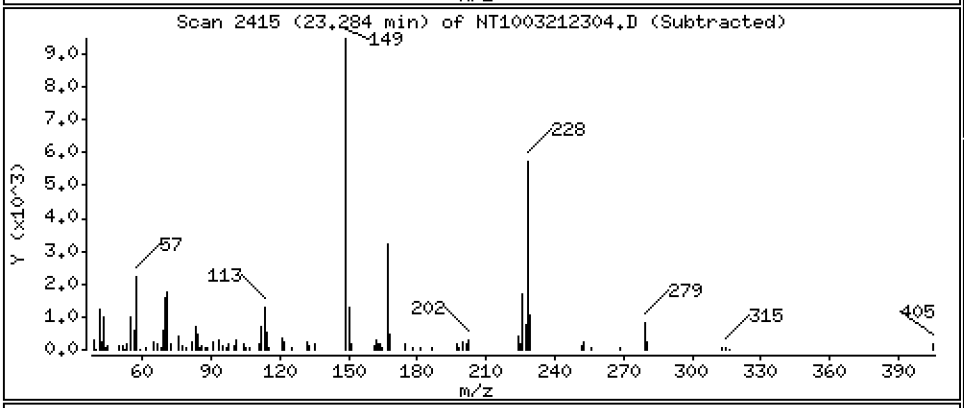
Column diameter: 0.25

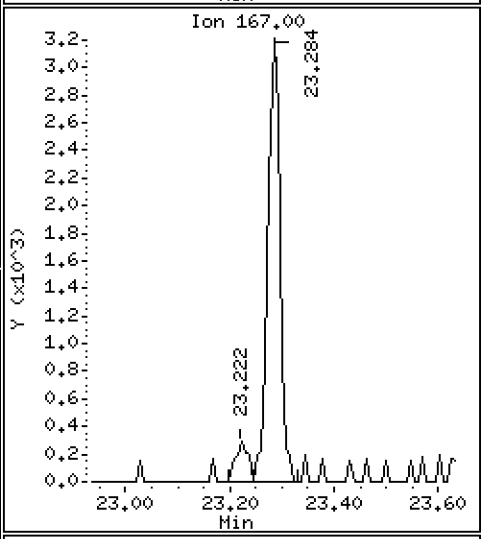
72 bis(2-Ethylhexyl)phthalate

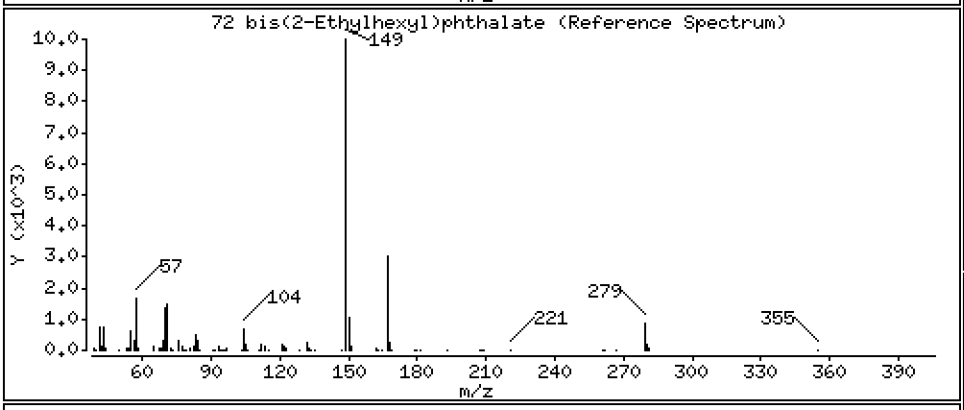
Concentration: 0.1411 ug/mL

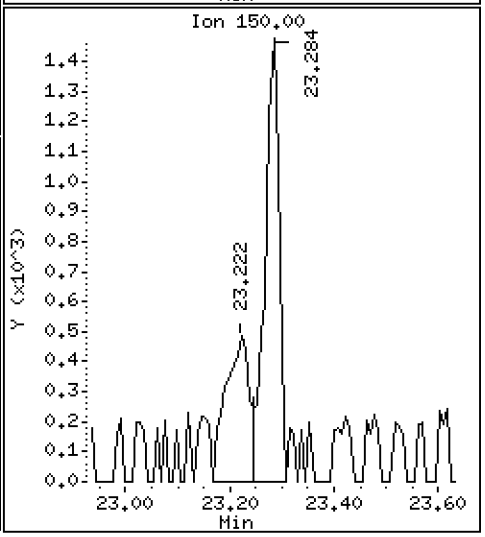


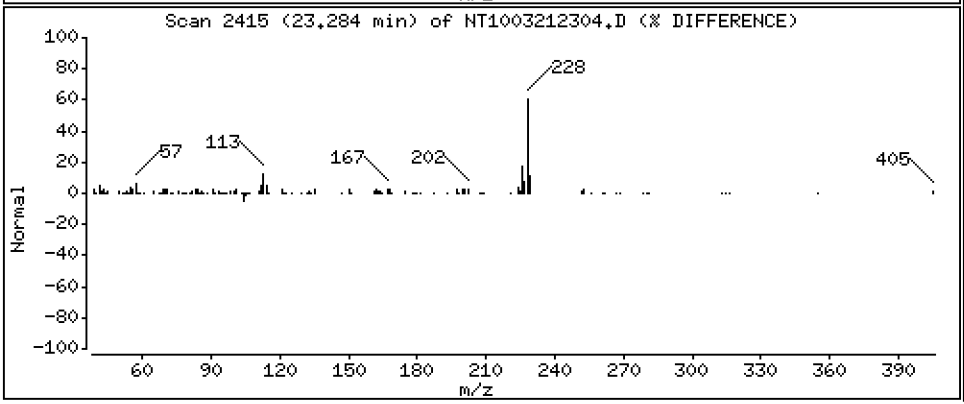












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

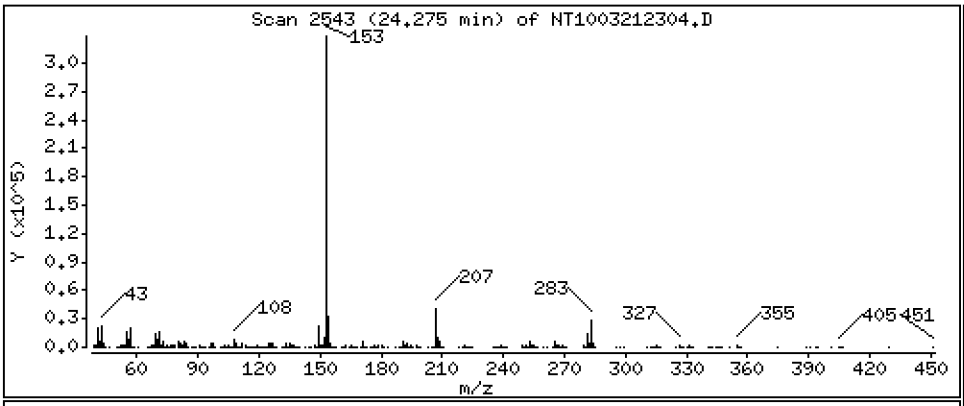
Operator: VTS

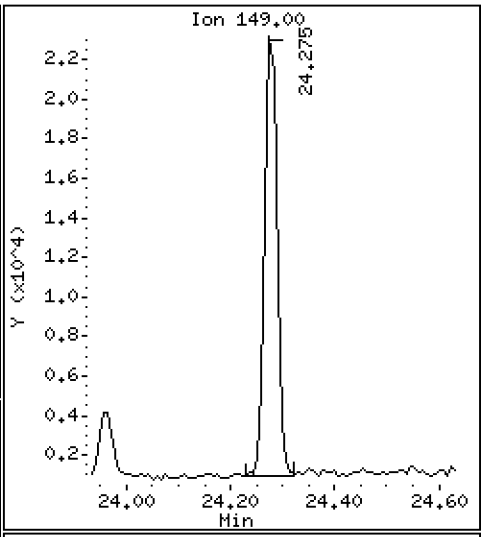
Column phase: ZB-5msi

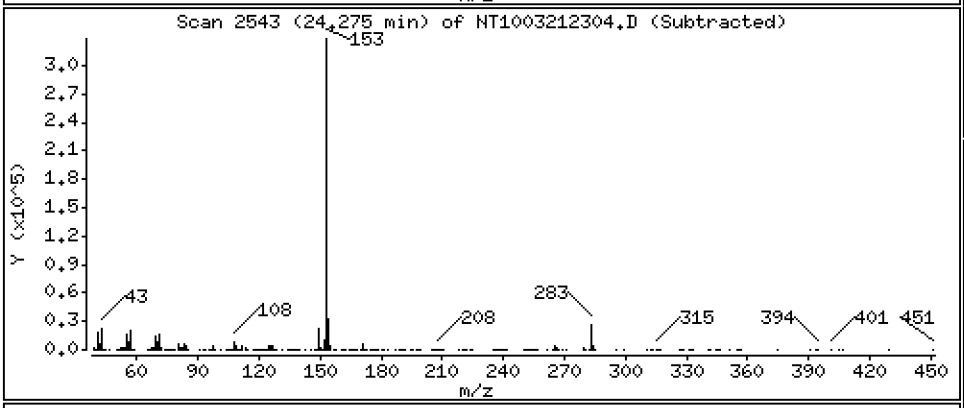
Column diameter: 0.25

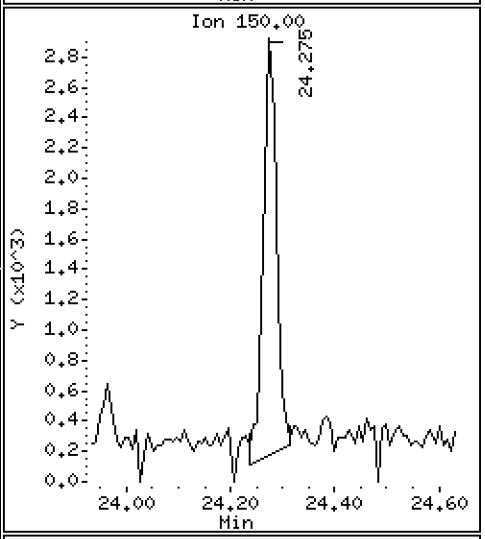
73 Di-n-octylphthalate

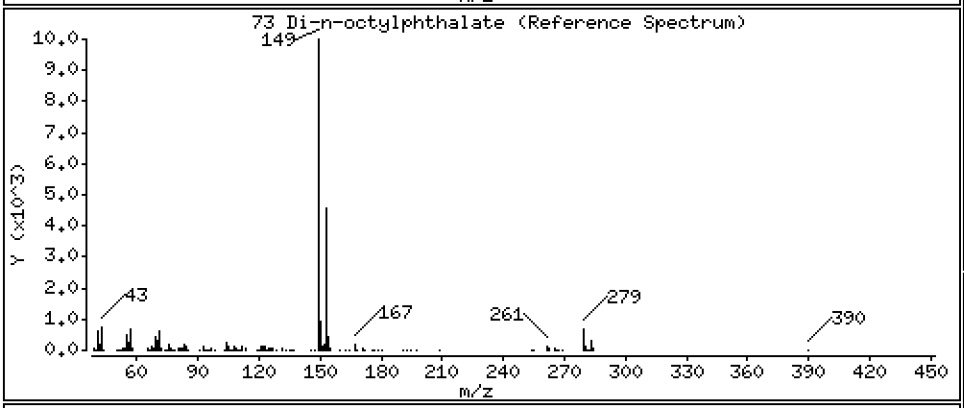
Concentration: 0.2085 ug/mL

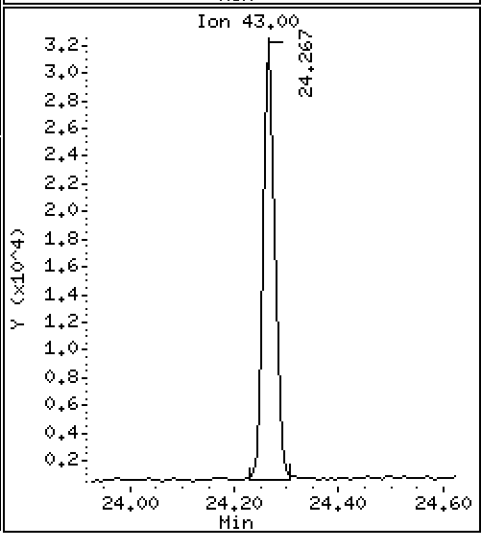


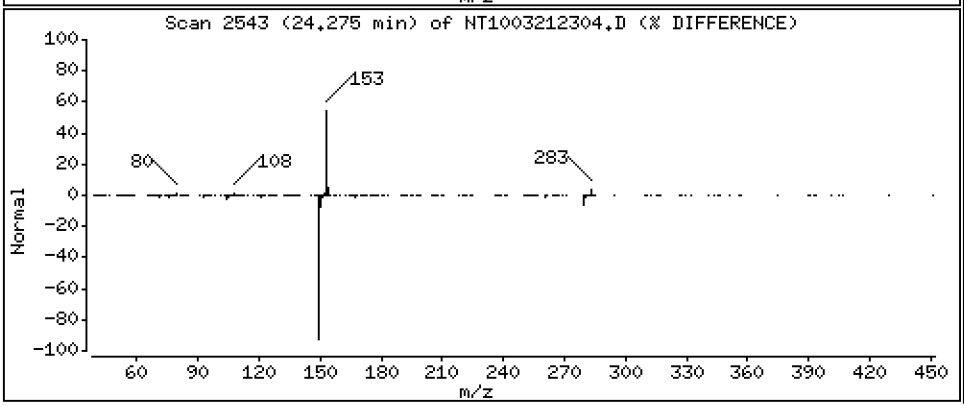












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

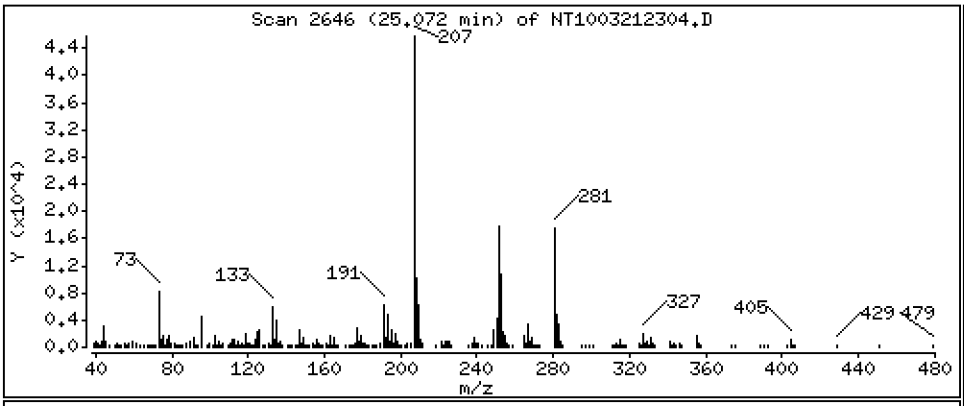
Operator: VTS

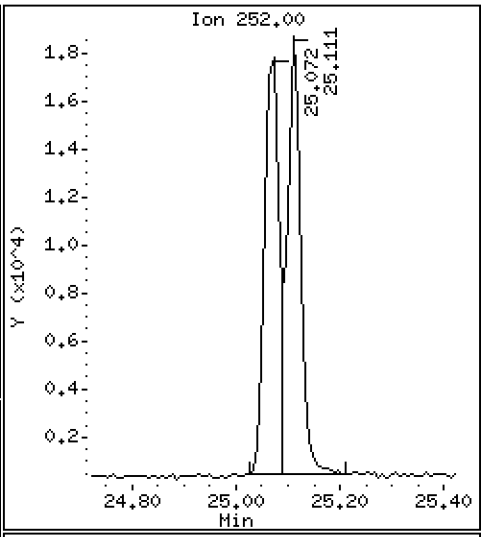
Column phase: ZB-5msi

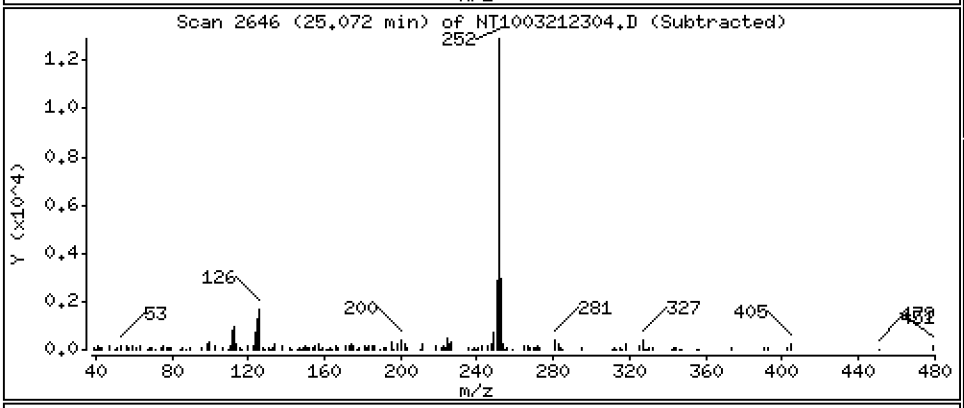
Column diameter: 0.25

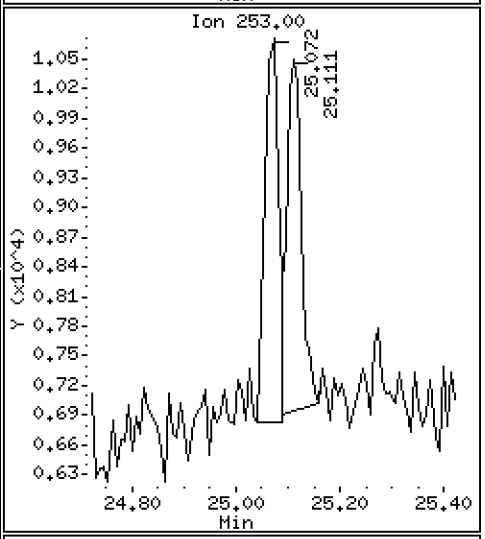
74 Benzo(b)fluoranthene

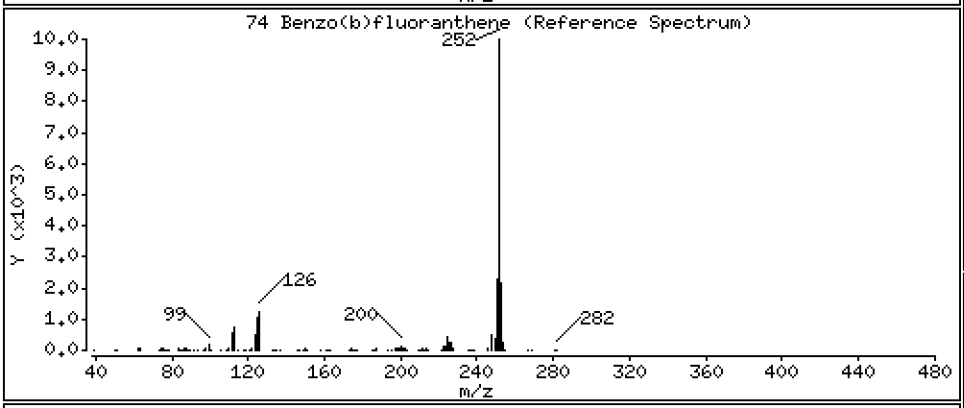
Concentration: 0.1938 ug/mL

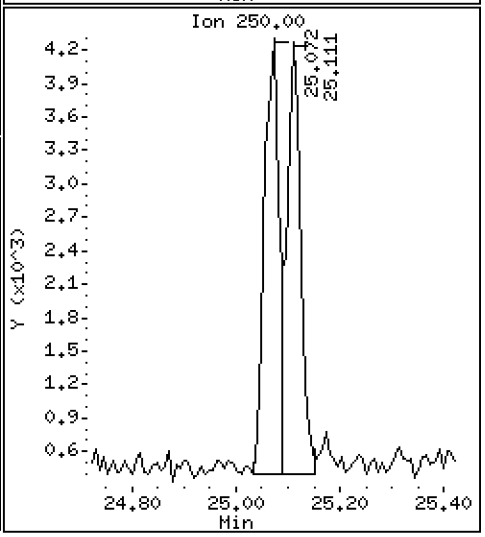


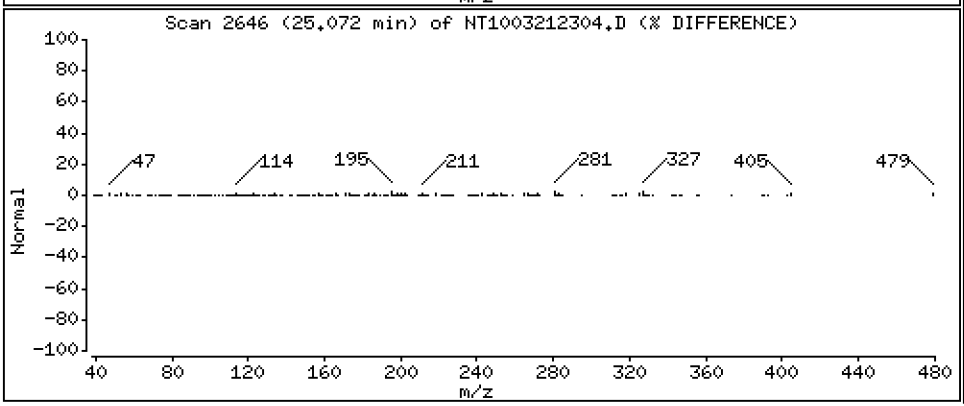












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

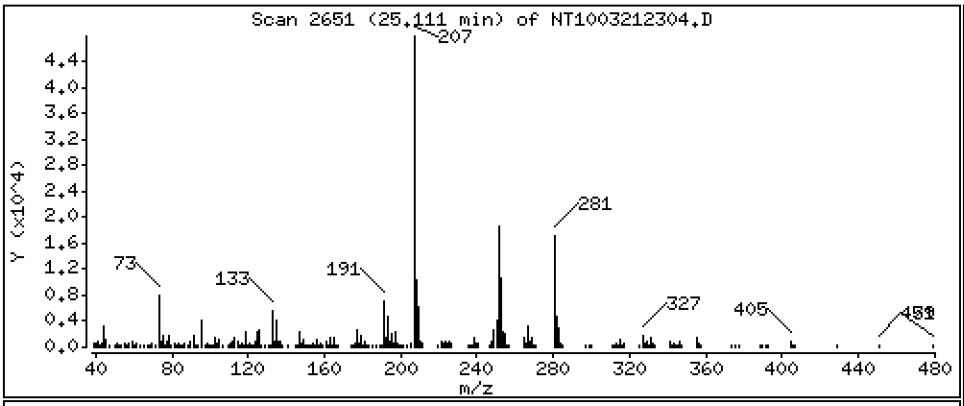
Operator: VTS

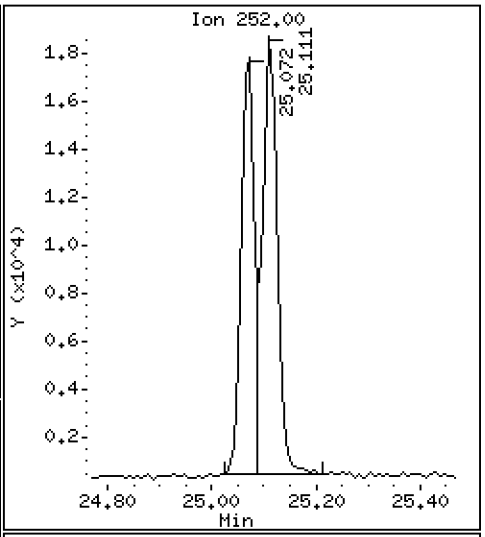
Column phase: ZB-5msi

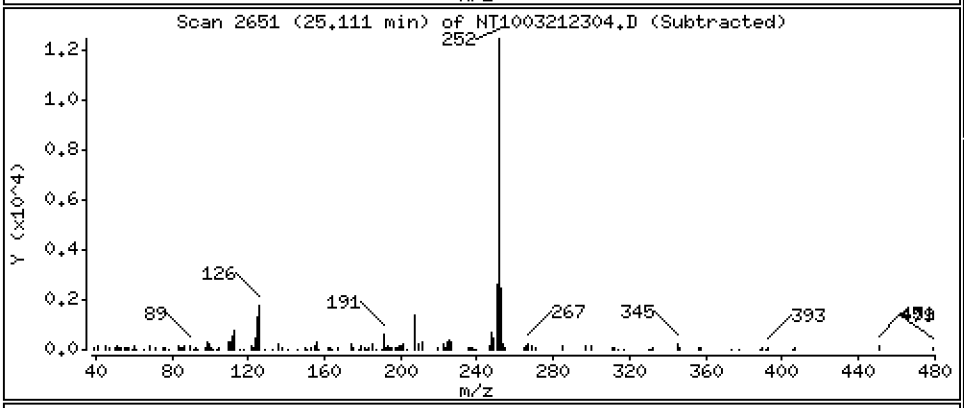
Column diameter: 0.25

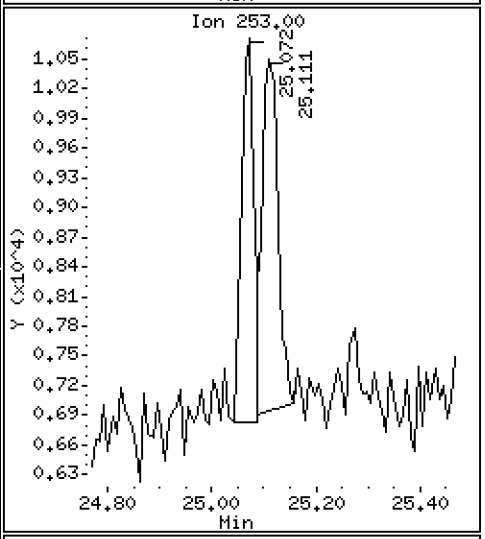
75 Benzo(k)fluoranthene

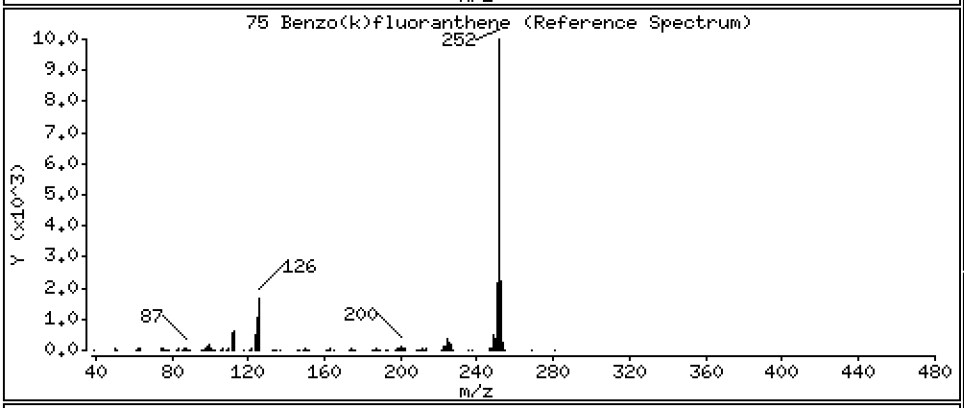
Concentration: 0.2132 ug/mL

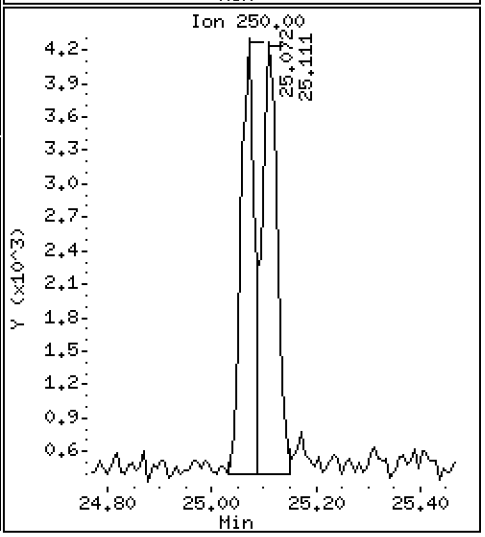


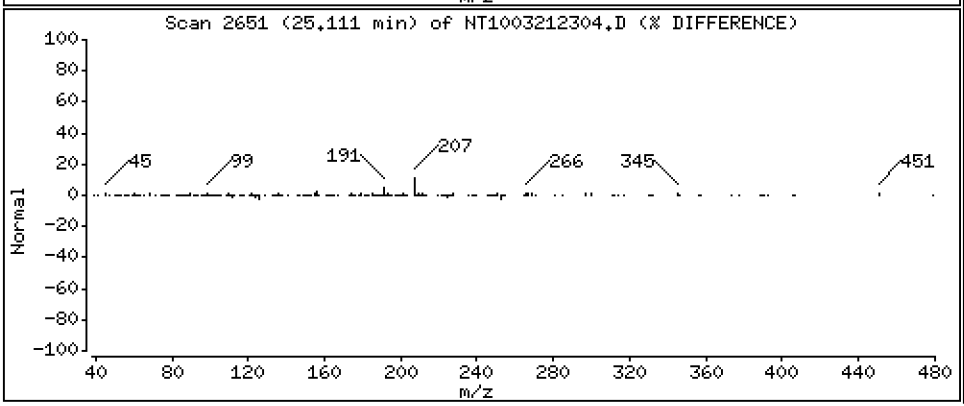












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

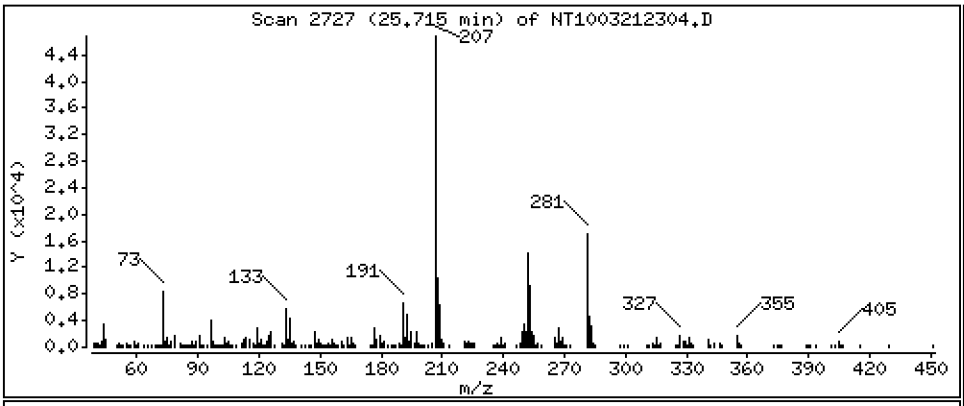
Operator: VTS

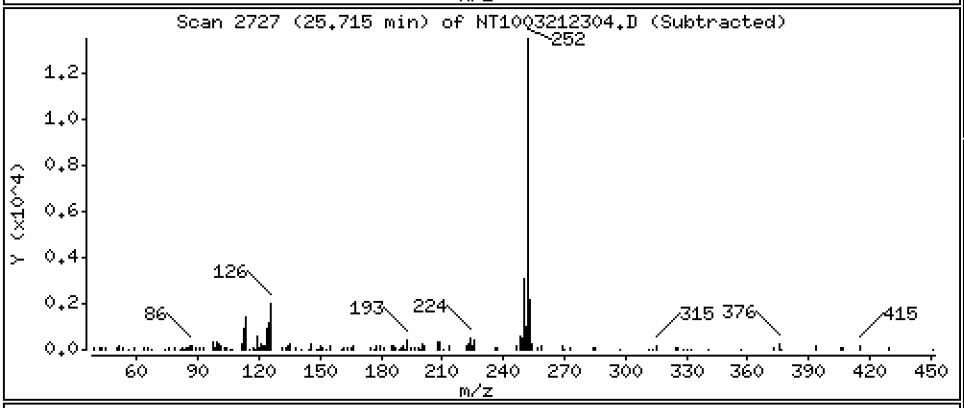
Column phase: ZB-5msi

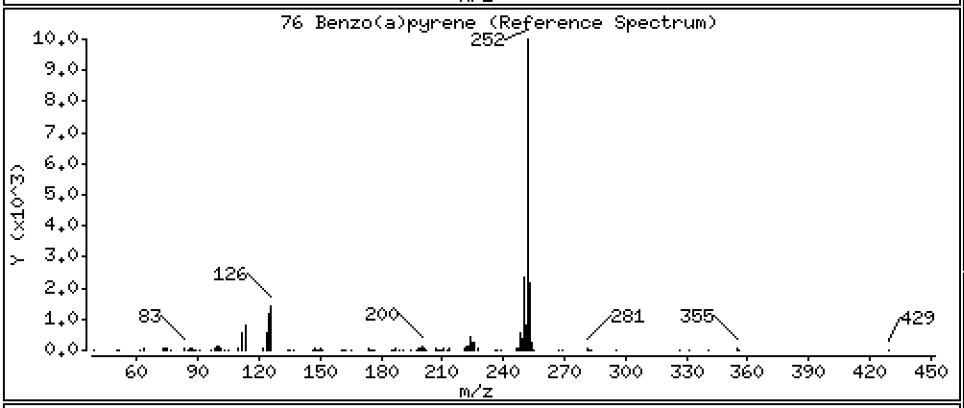
Column diameter: 0.25

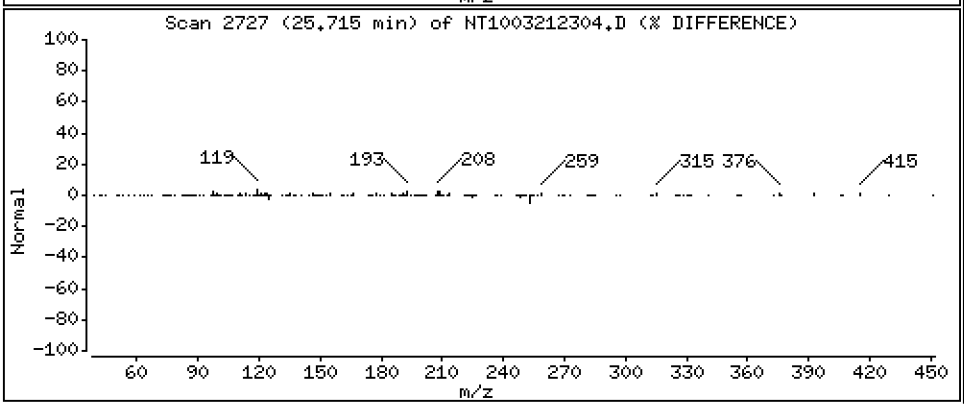
76 Benzo(a)pyrene

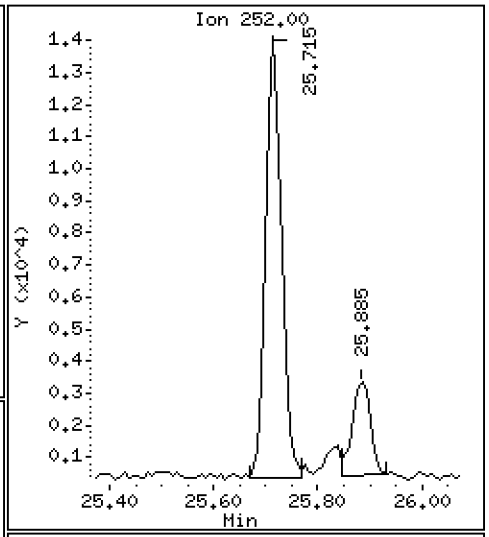
Concentration: 0.1901 ug/mL

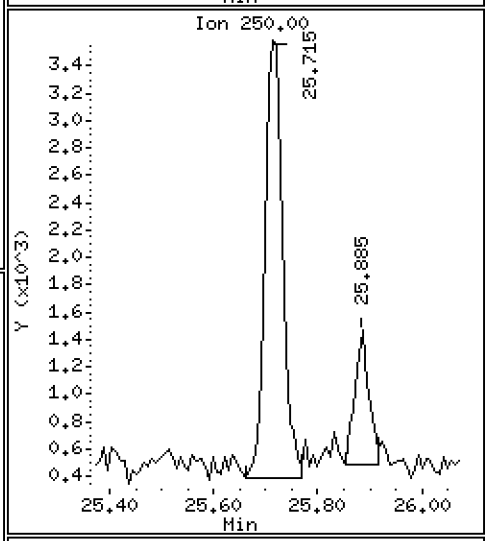


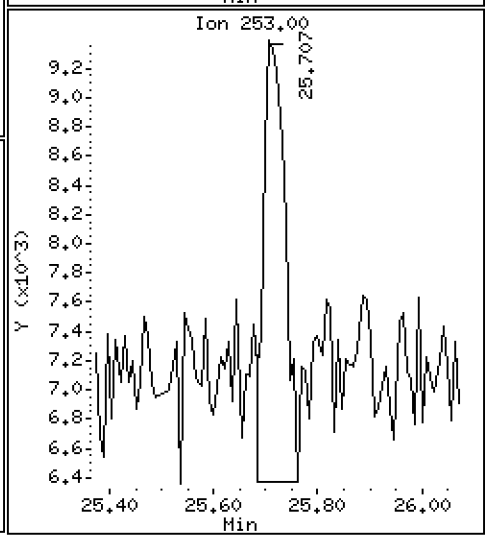












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212304.D

Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

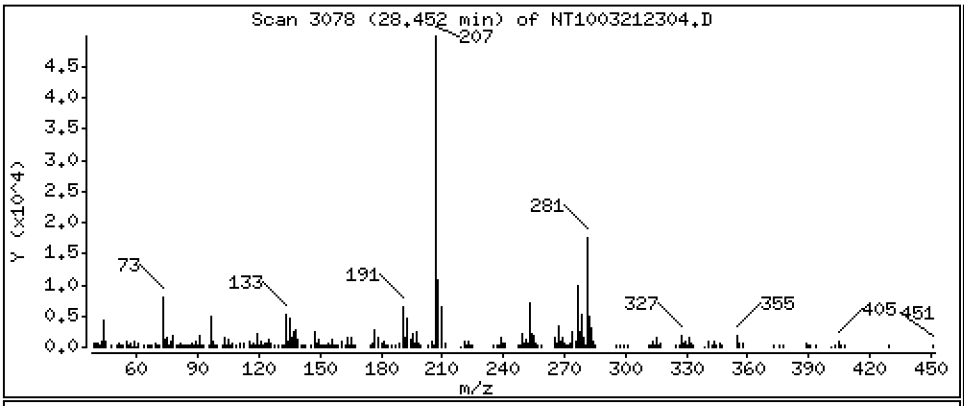
Operator: VTS

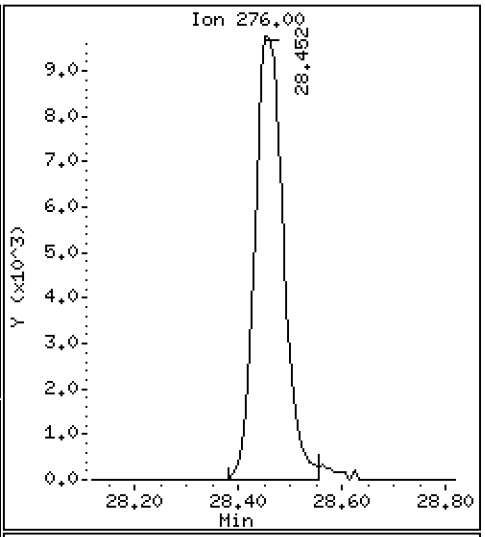
Column phase: ZB-5msi

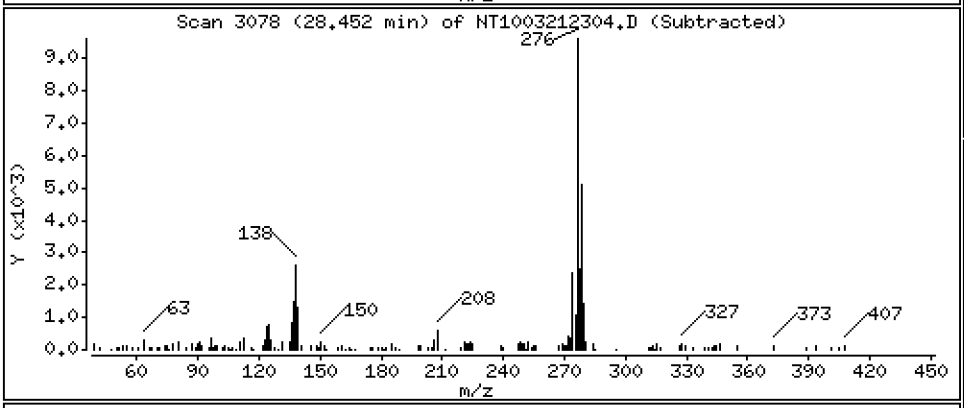
Column diameter: 0.25

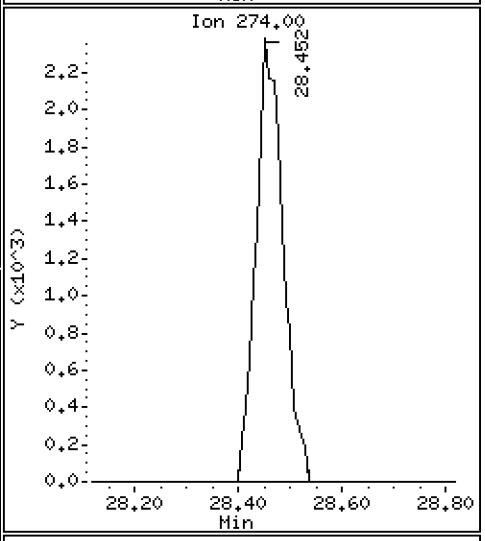
78 Indeno(1,2,3-cd)pyrene

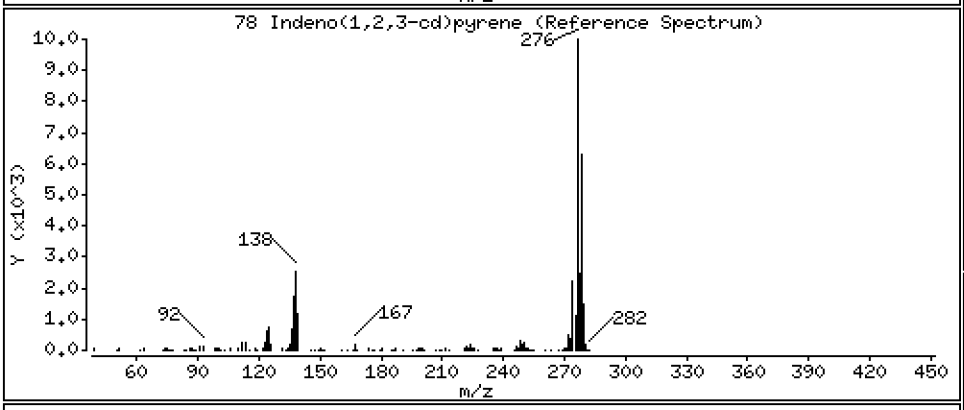
Concentration: 0.1952 ug/mL

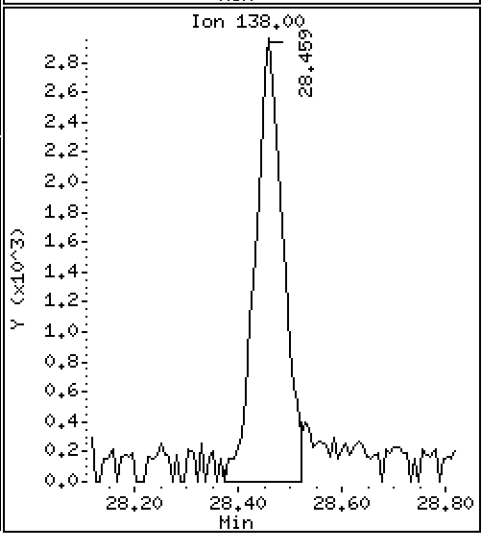


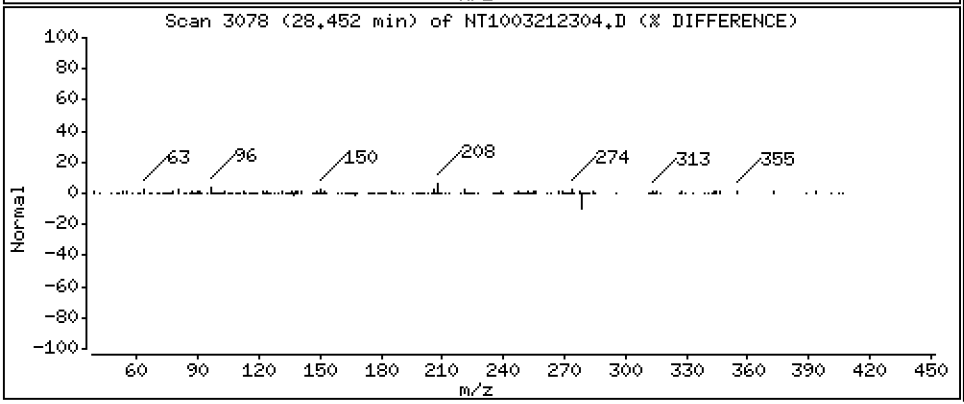












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

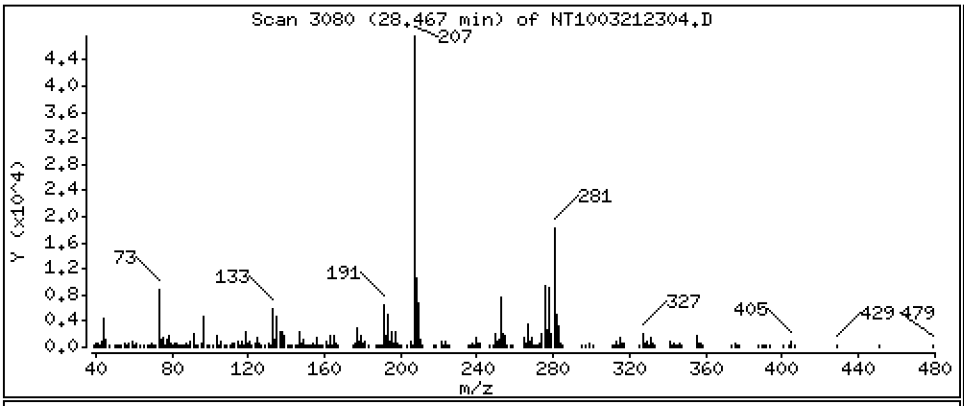
Operator: VTS

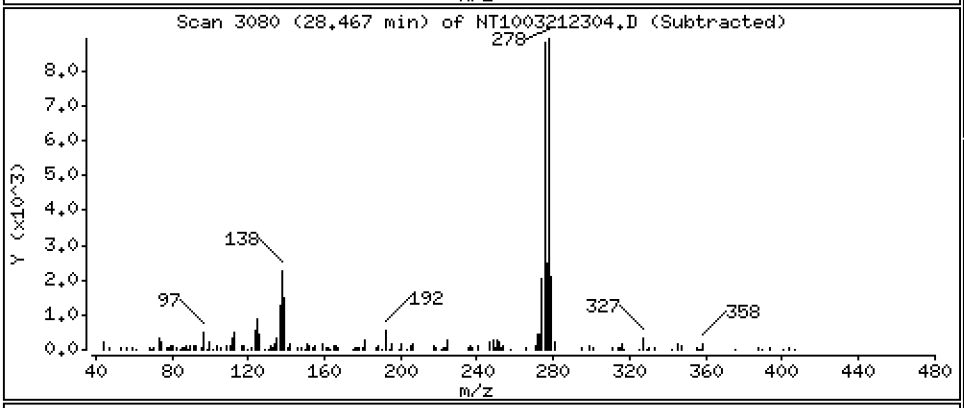
Column phase: ZB-5msi

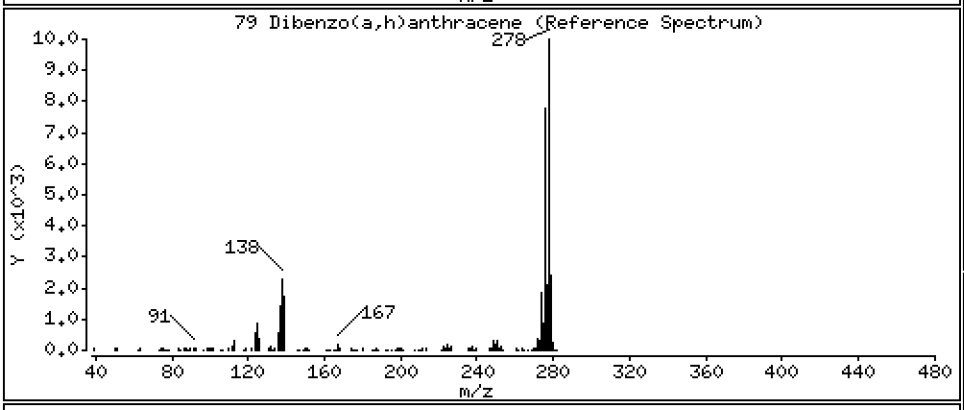
Column diameter: 0.25

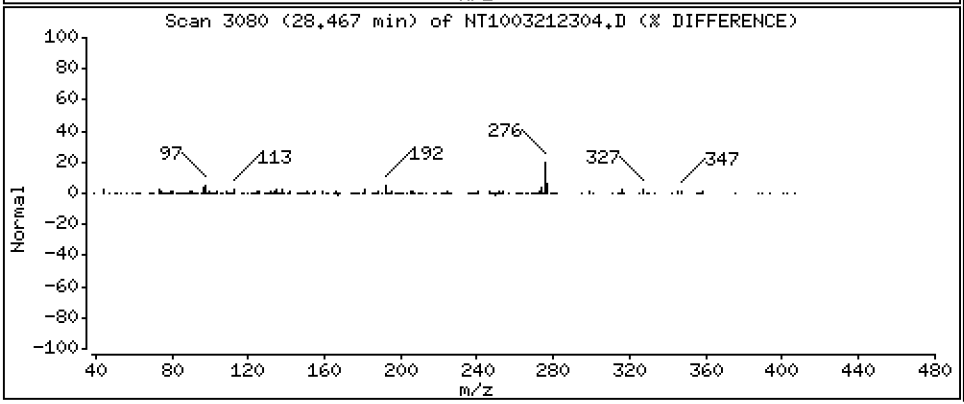
79 Dibenzo(a,h)anthracene

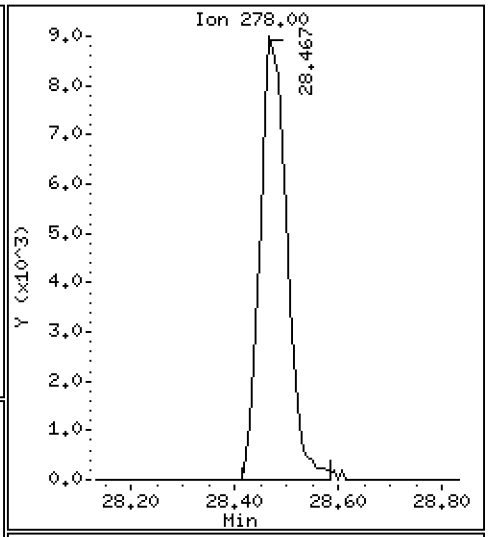
Concentration: 0.2040 ug/mL

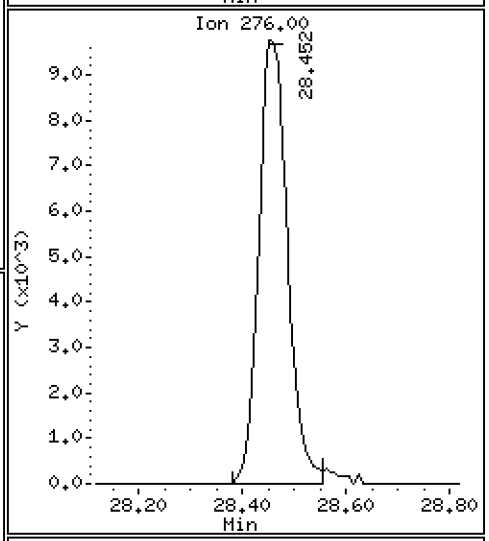


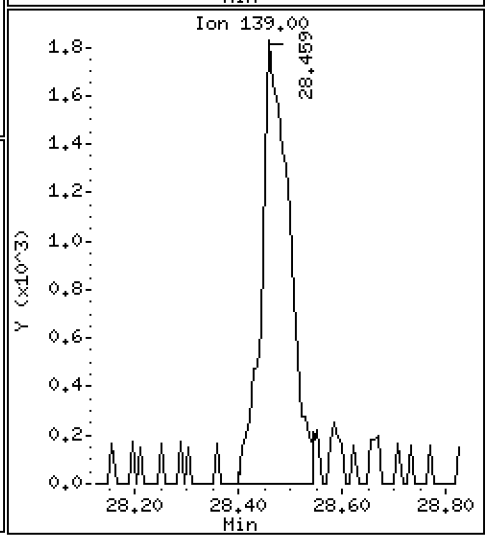












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212304.D

Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

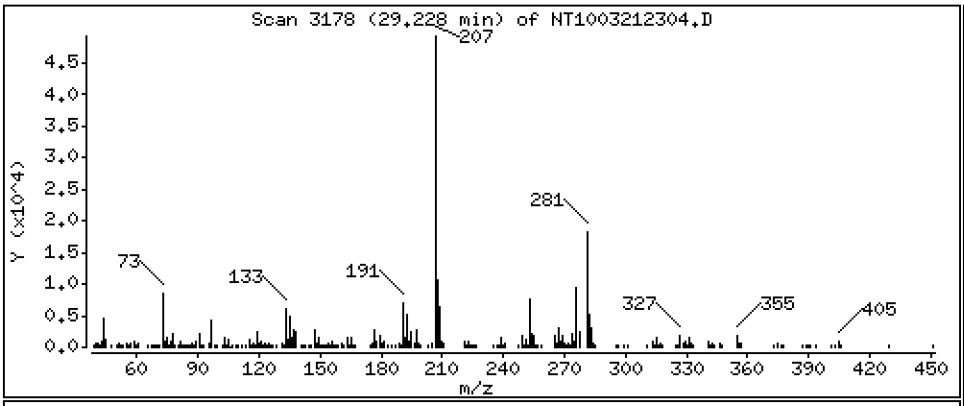
Operator: VTS

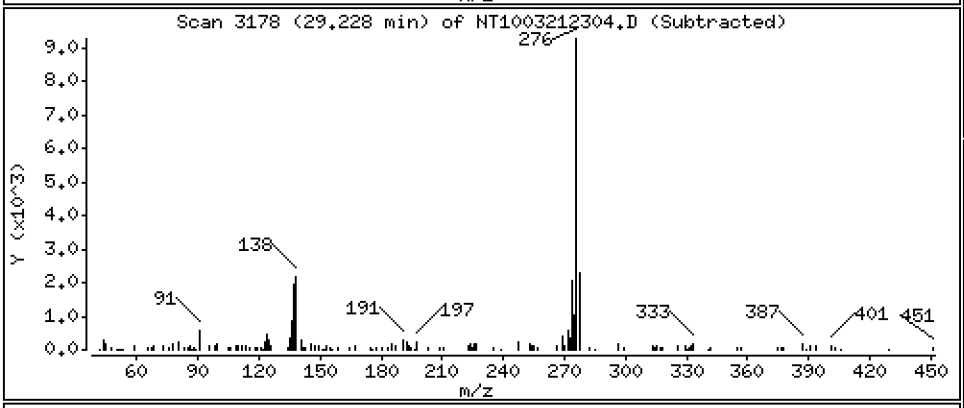
Column phase: ZB-5msi

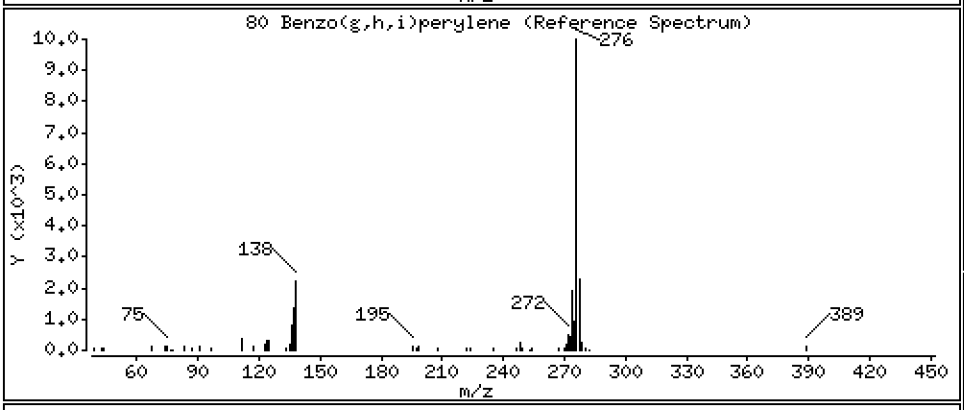
Column diameter: 0.25

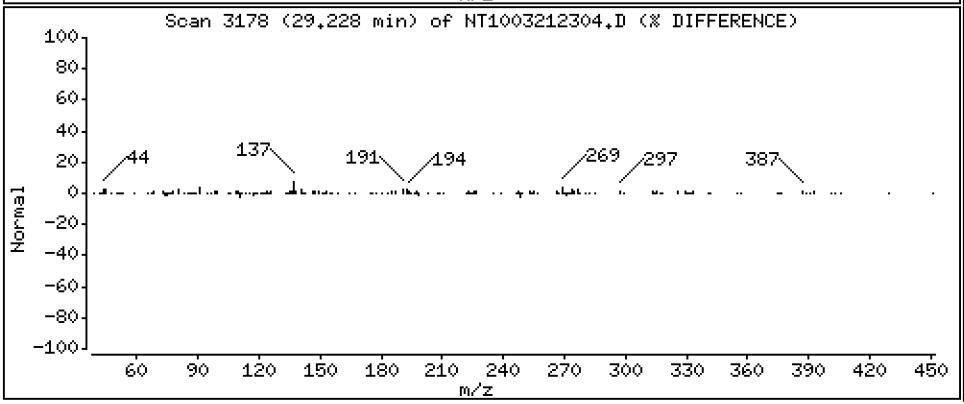
80 Benzo(g,h,i)perylene

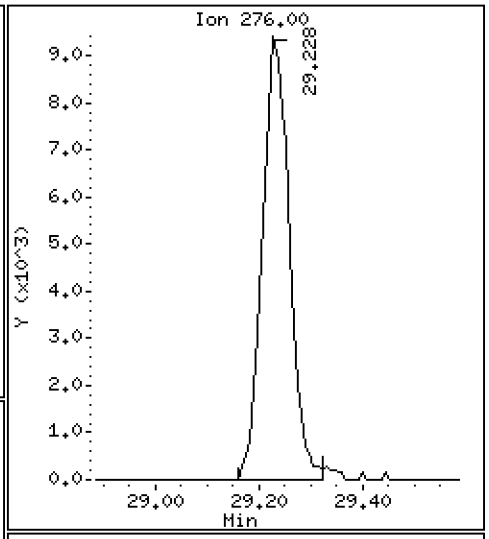
Concentration: 0.2040 ug/mL

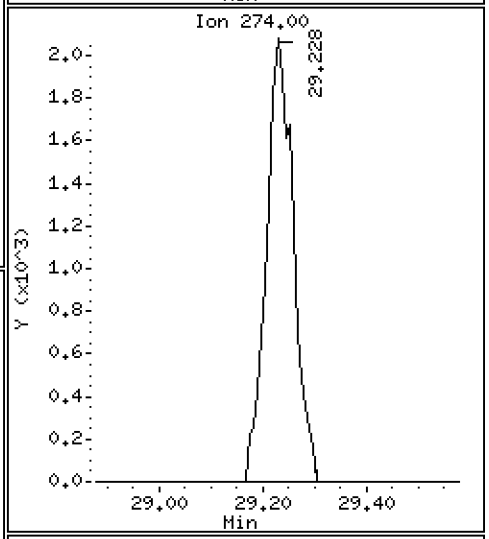


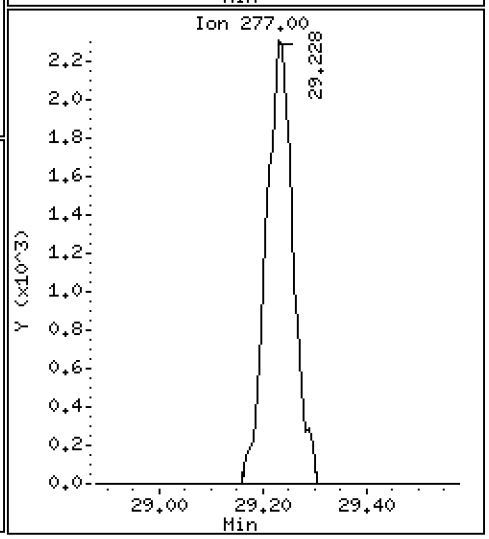












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

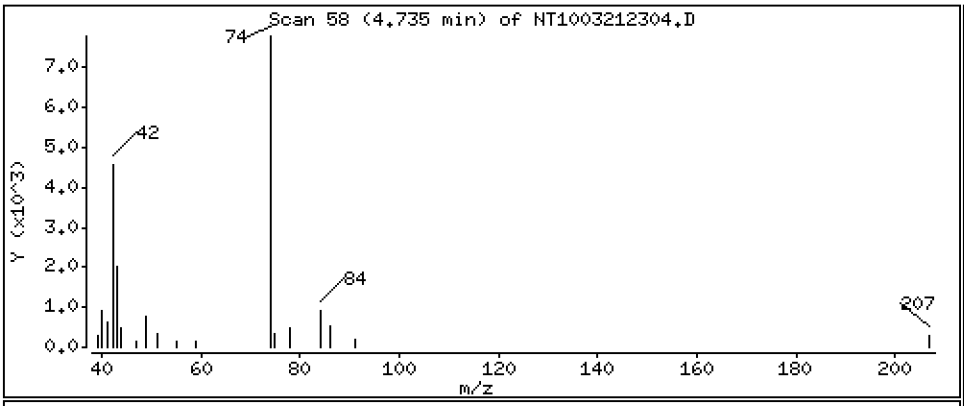
Operator: VTS

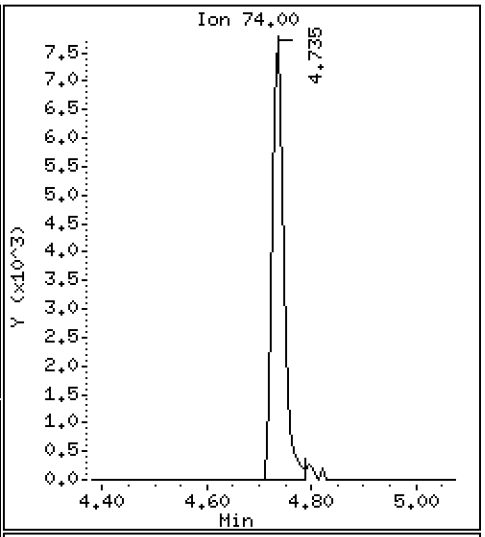
Column phase: ZB-5msi

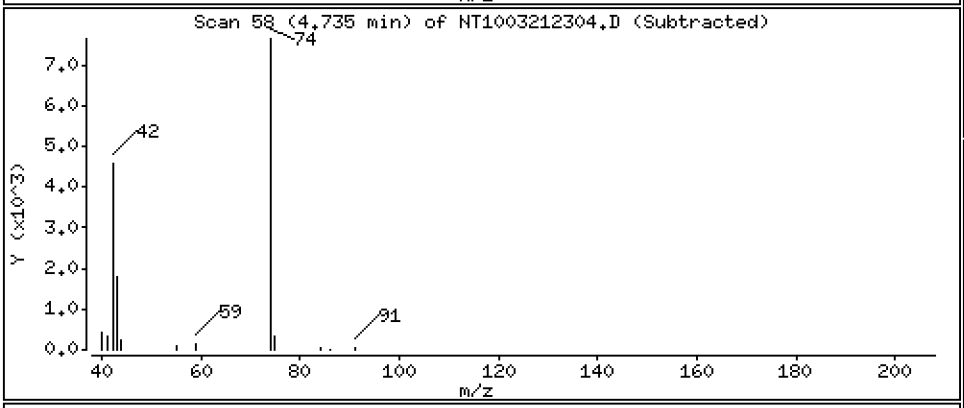
Column diameter: 0.25

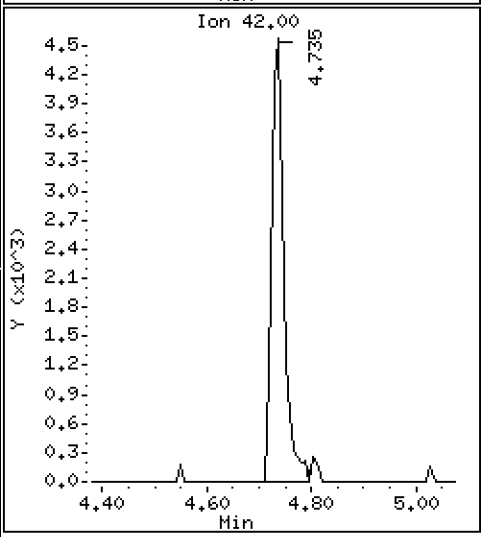
90 N-Nitrosodimethylamine

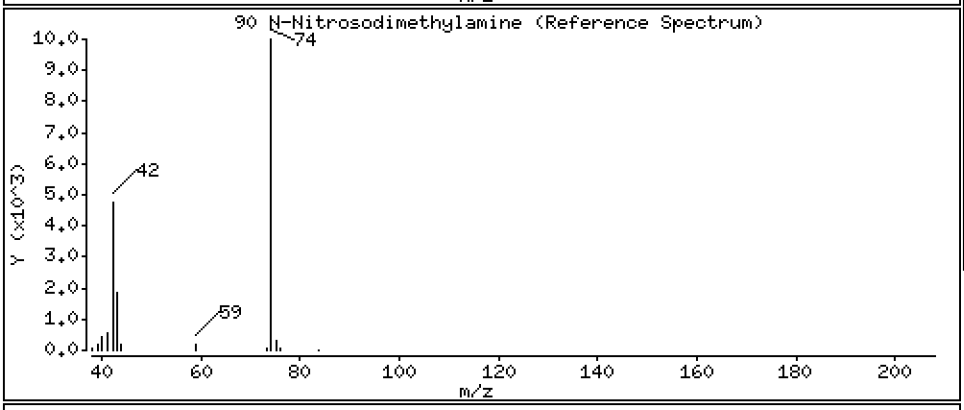
Concentration: 0.3883 ug/mL

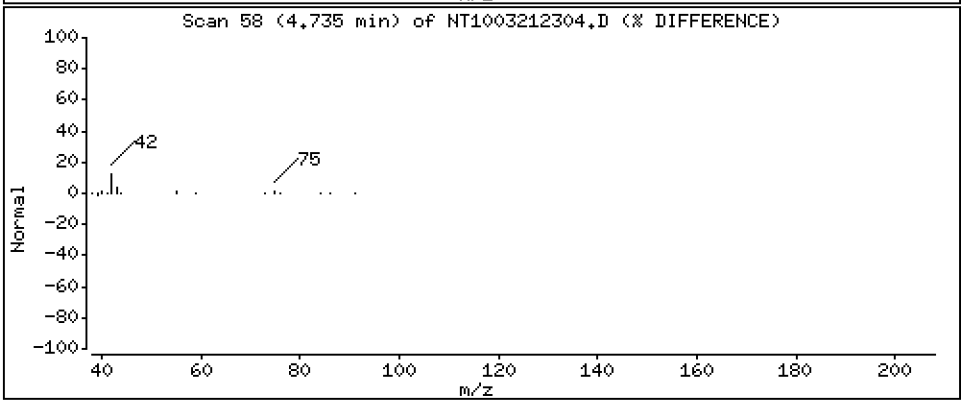












Date : 21-MAR-2023 19:04

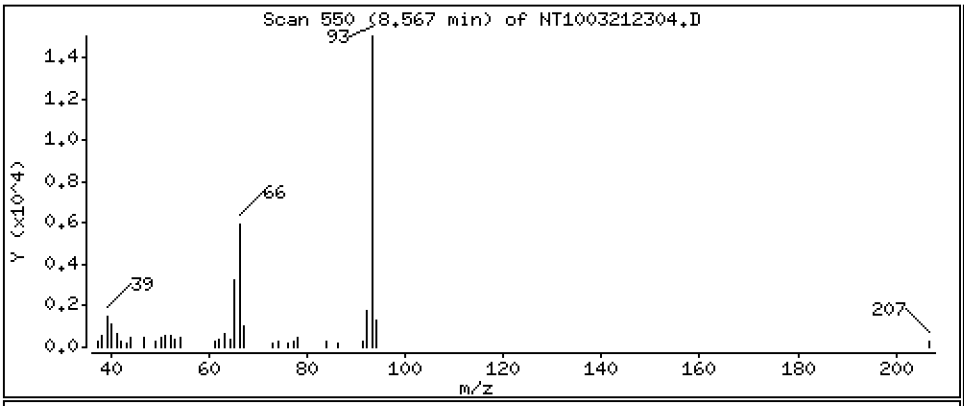
Client ID: Instrument: nt10.i

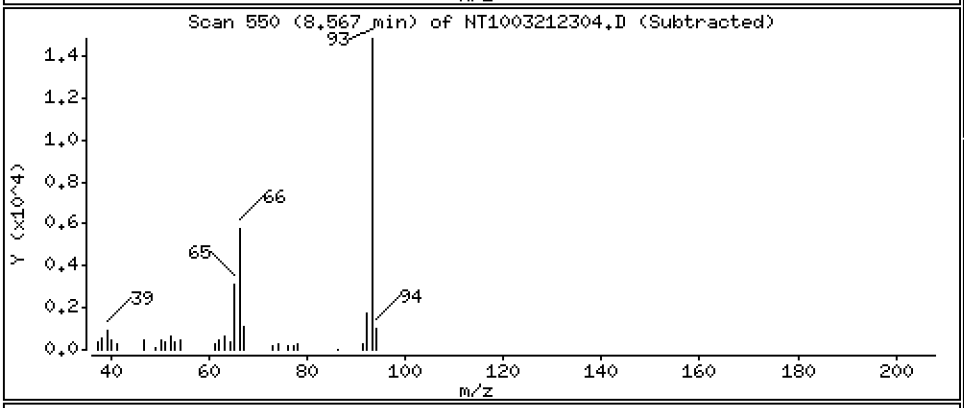
Sample Info: SLC0451-LCV1

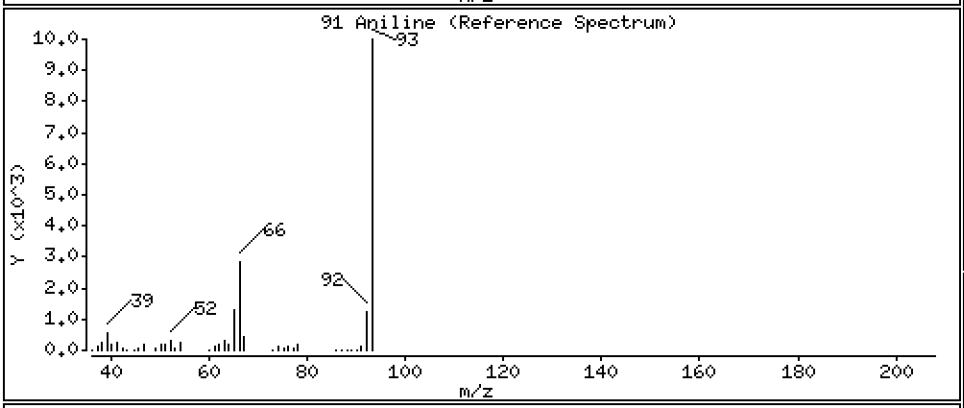
Operator: VTS

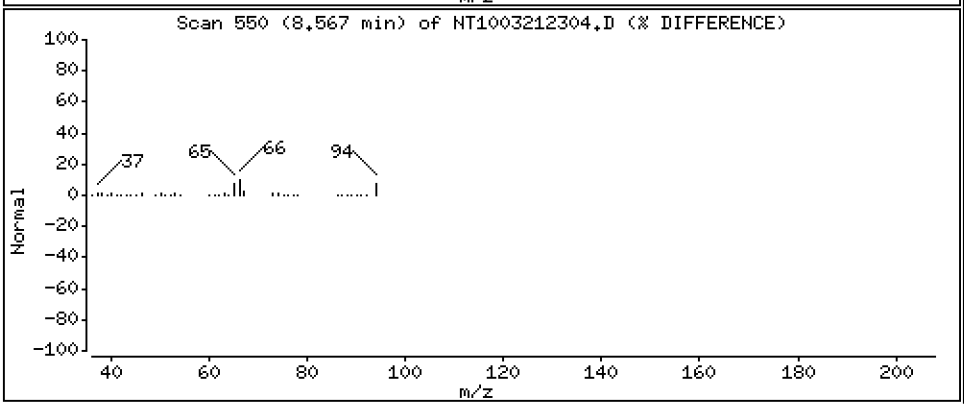
Column phase: ZB-5msi Column diameter: 0.25

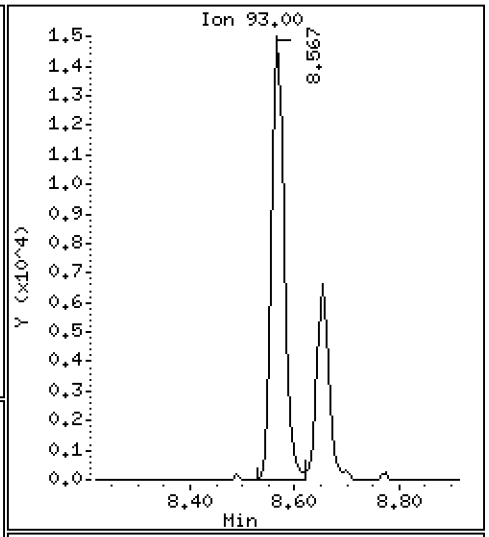
91 Aniline Concentration: 0.3619 ug/mL

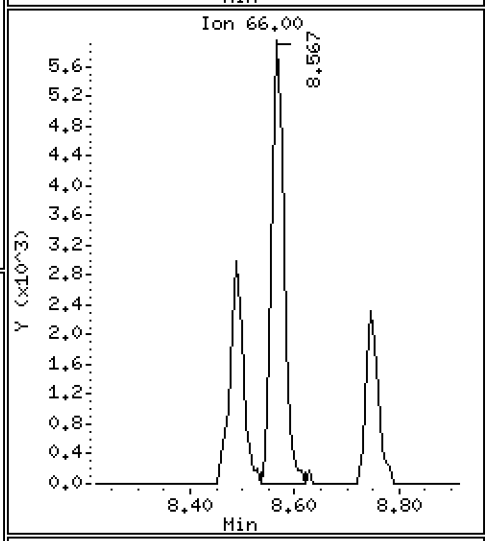


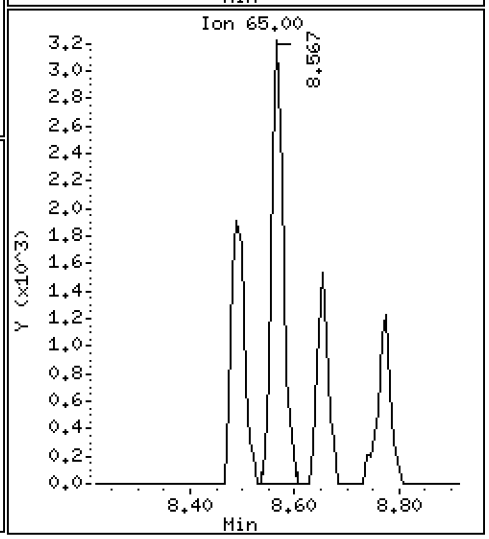












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

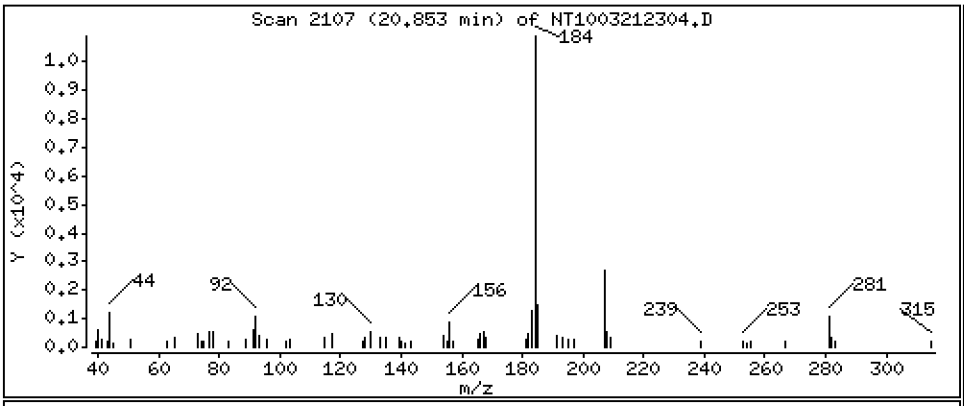
Operator: VTS

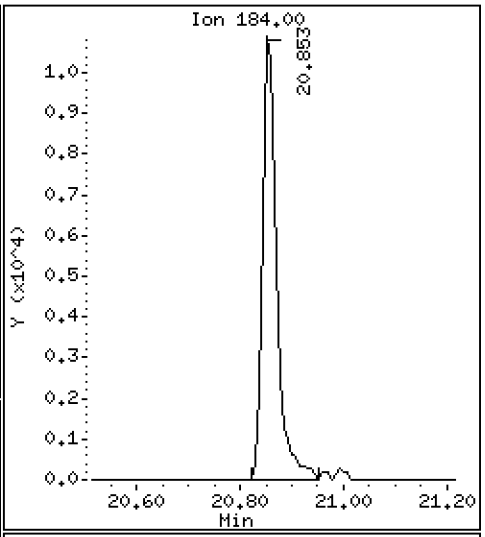
Column phase: ZB-5msi

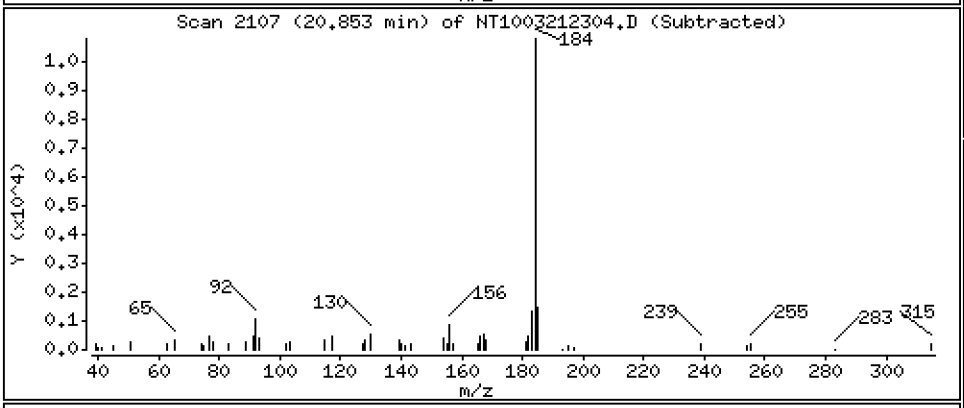
Column diameter: 0.25

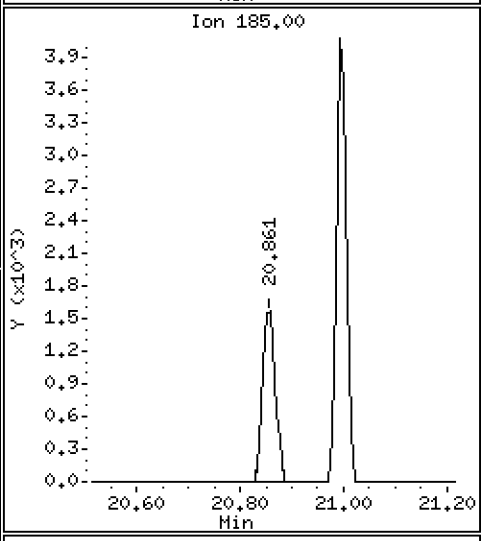
93 Benzidine

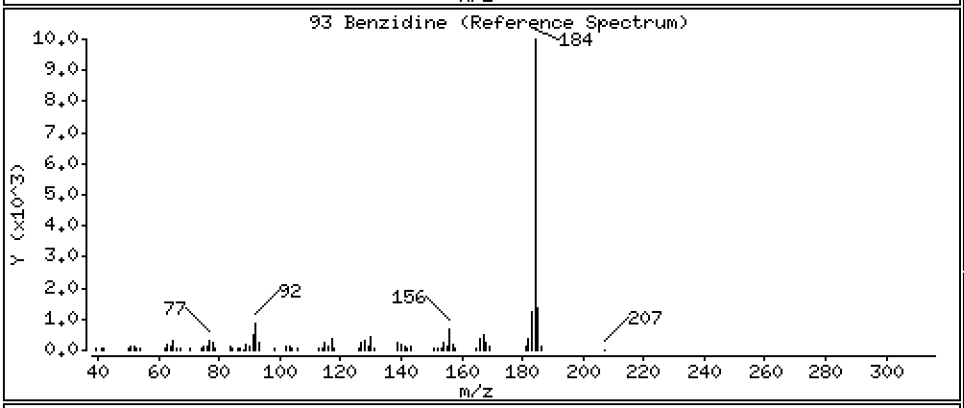
Concentration: 0.2572 ug/mL

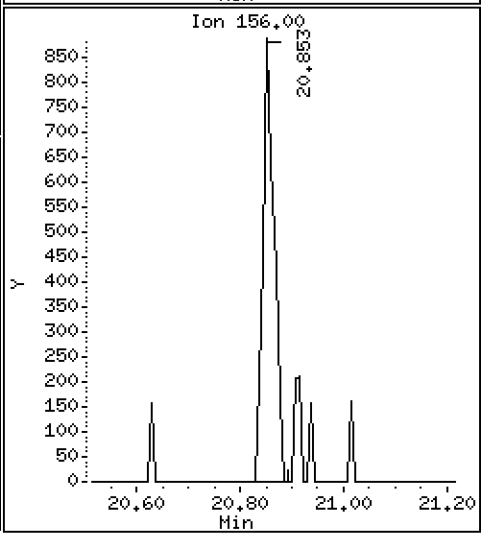


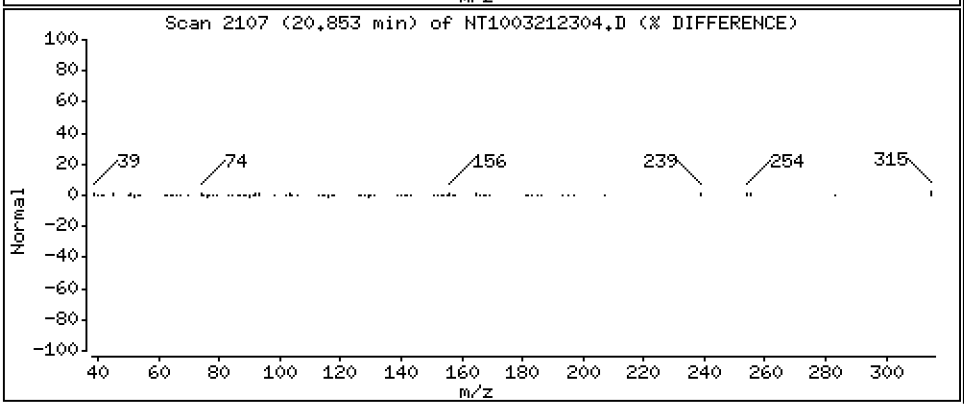












Data File: \\target\share\chem3\nt10.i\20230321.b\NT1003212304.D

Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

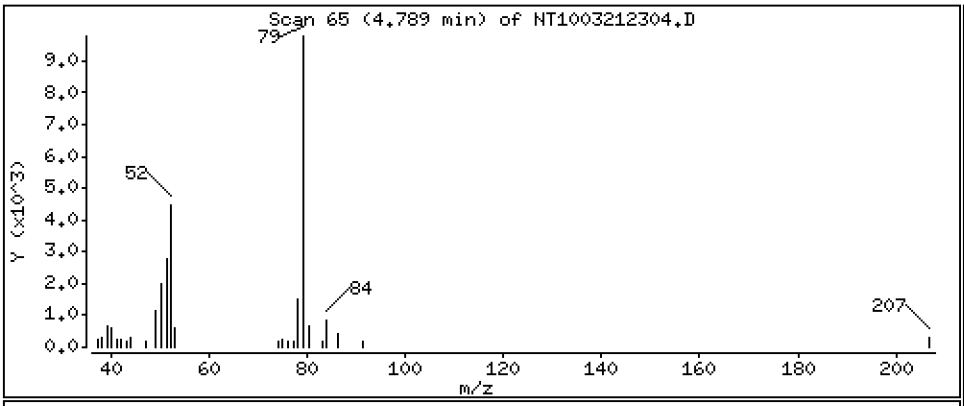
Operator: VTS

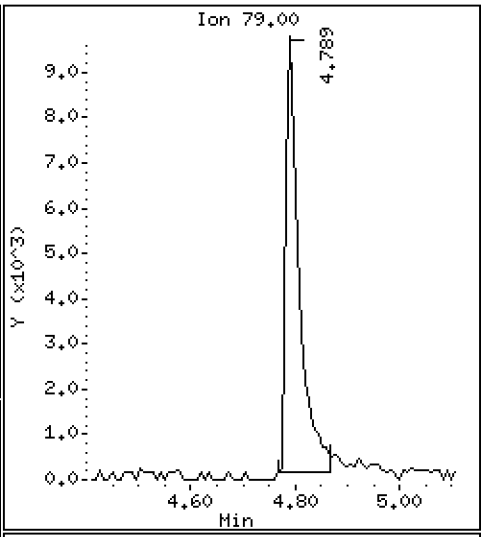
Column phase: ZB-5msi

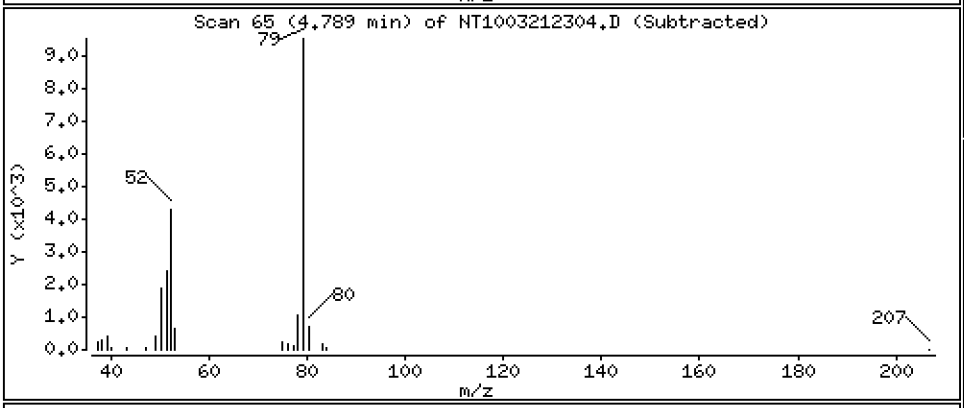
Column diameter: 0.25

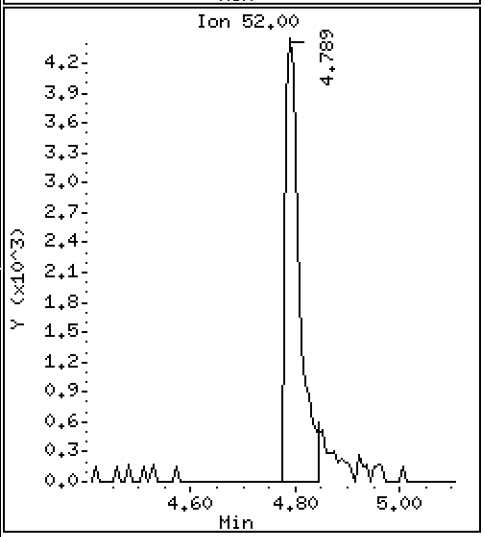
103 Pyridine

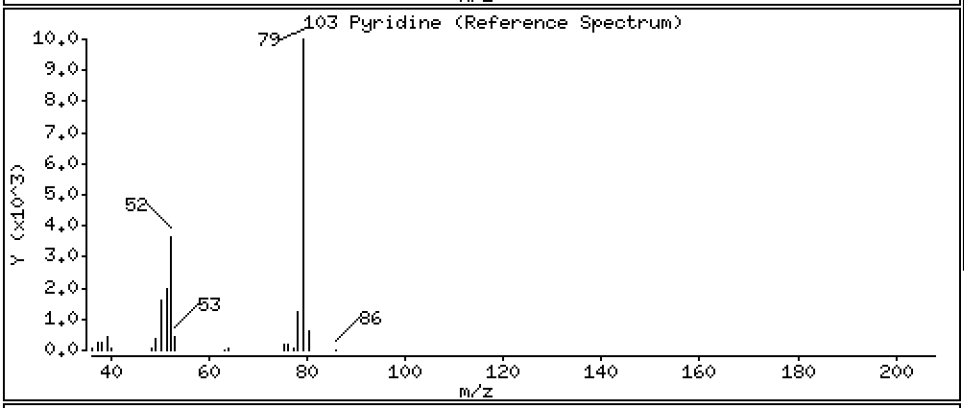
Concentration: 0.3859 ug/mL

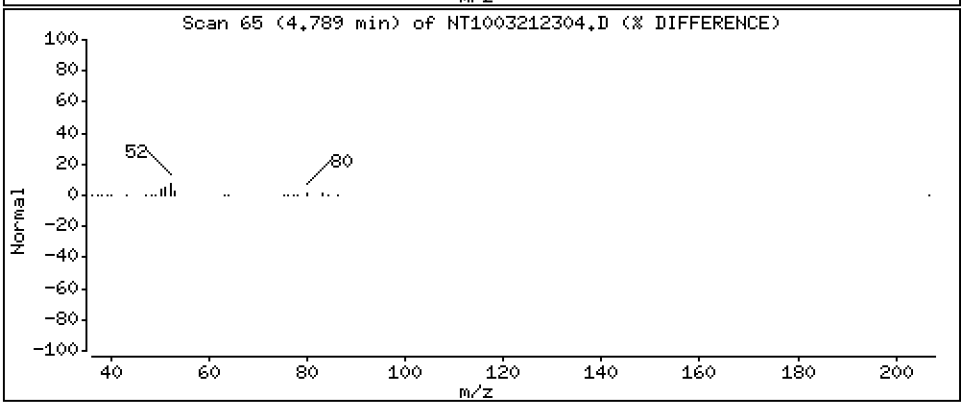












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

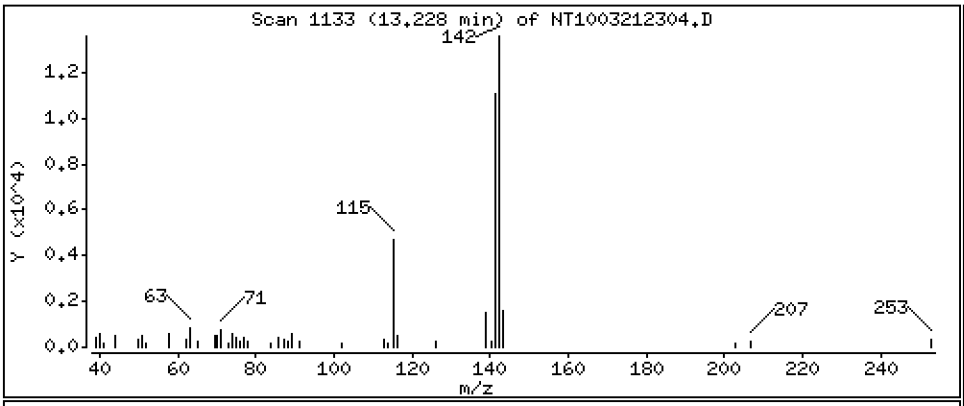
Operator: VTS

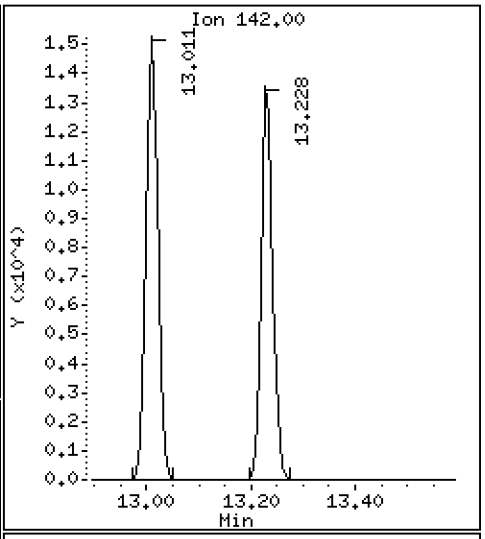
Column phase: ZB-5msi

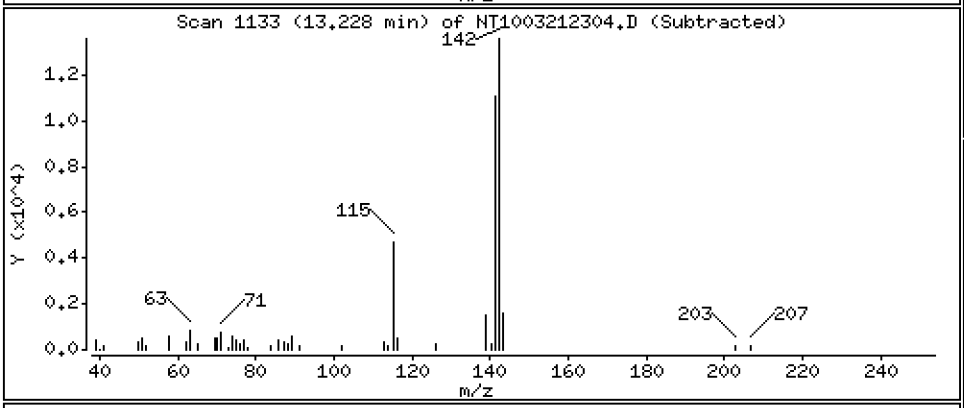
Column diameter: 0.25

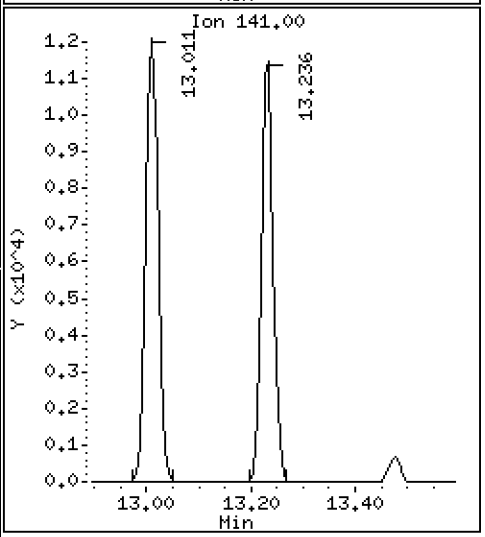
105 1-methylnaphthalene

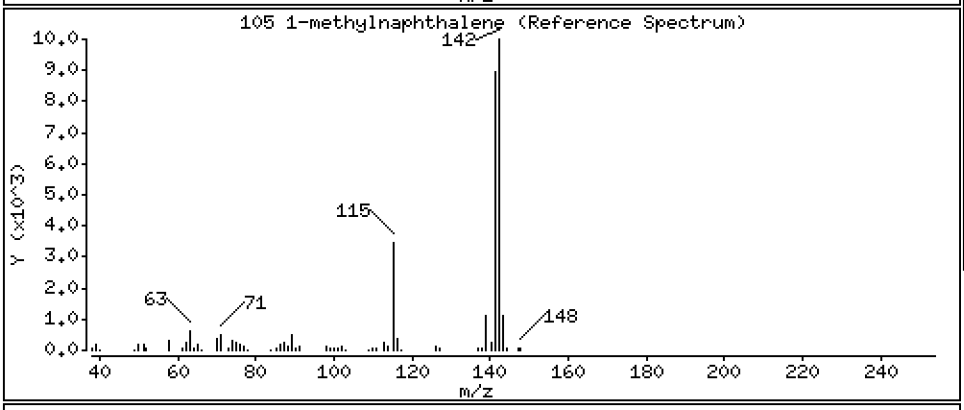
Concentration: 0.2099 ug/mL

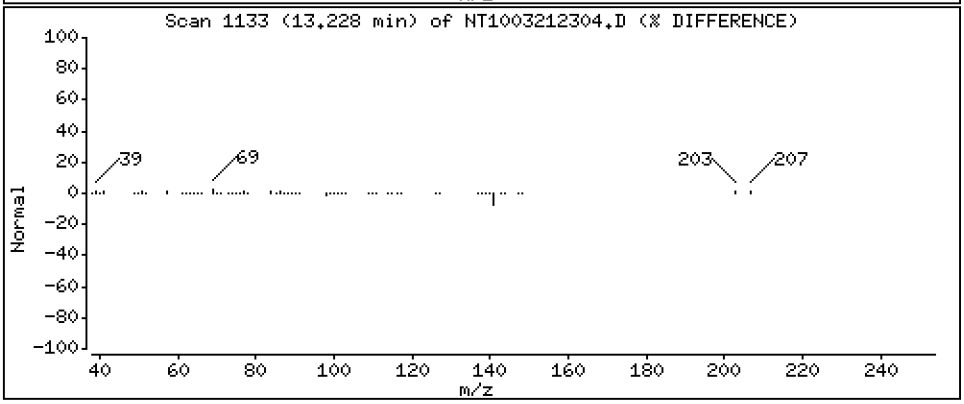












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

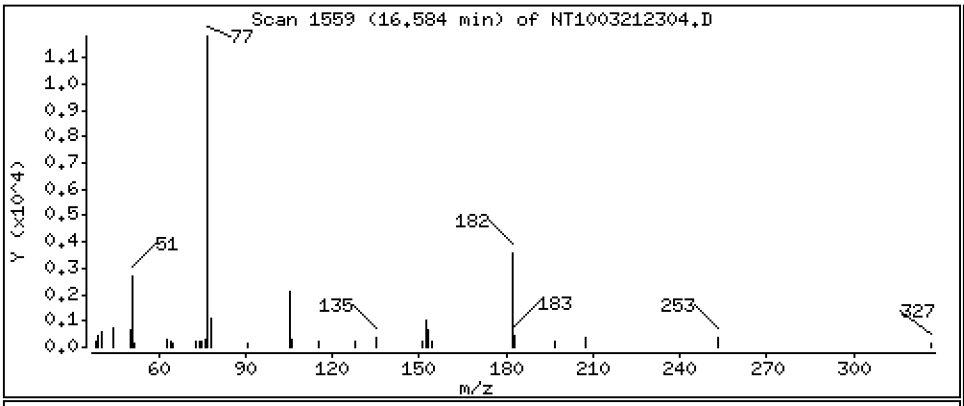
Operator: VTS

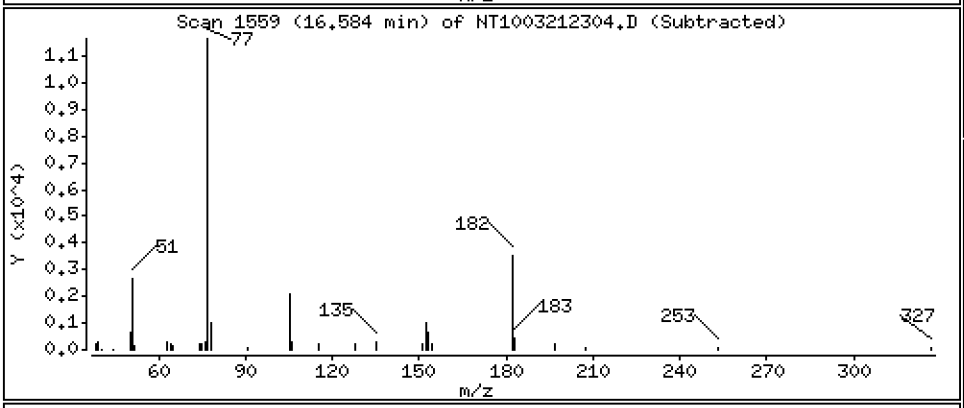
Column phase: ZB-5msi

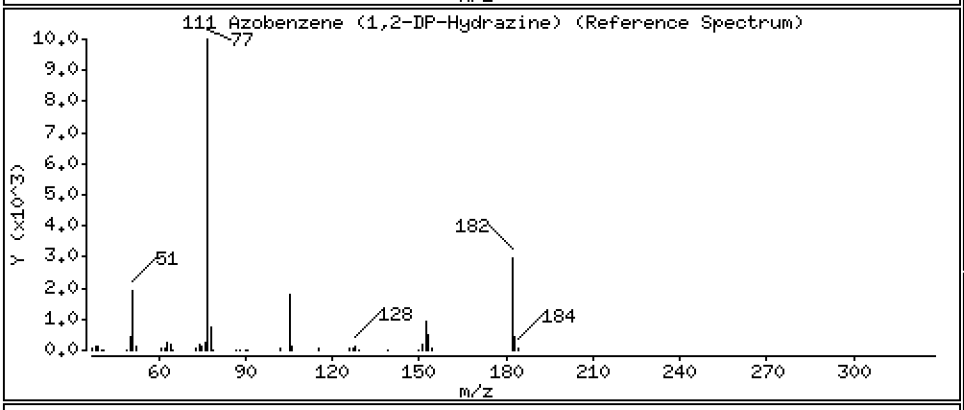
Column diameter: 0.25

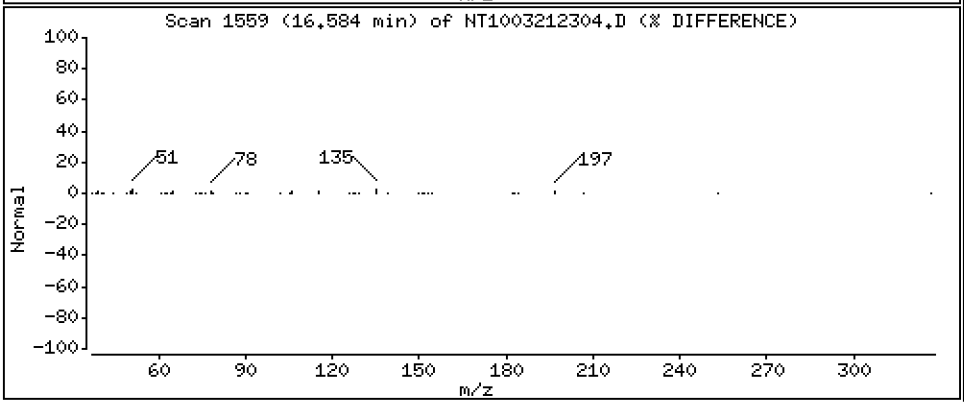
111 Azobenzene (1,2-DP-Hydrazine)

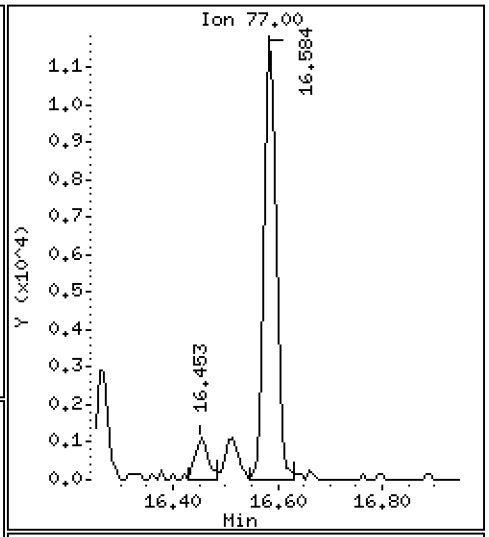
Concentration: 0.1726 ug/mL

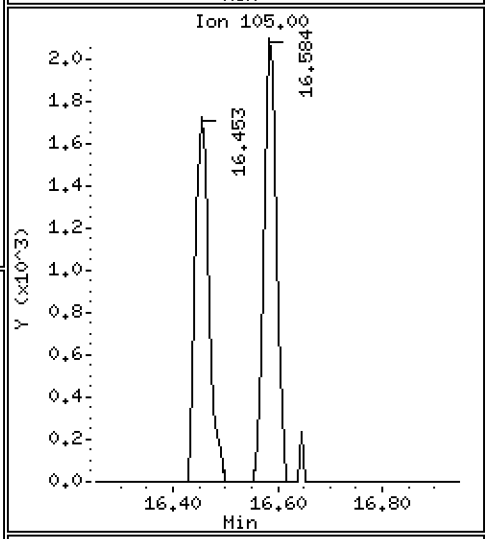


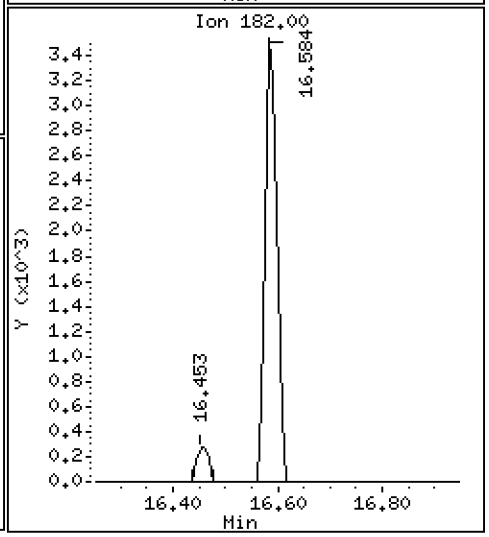












Date : 21-MAR-2023 19:04

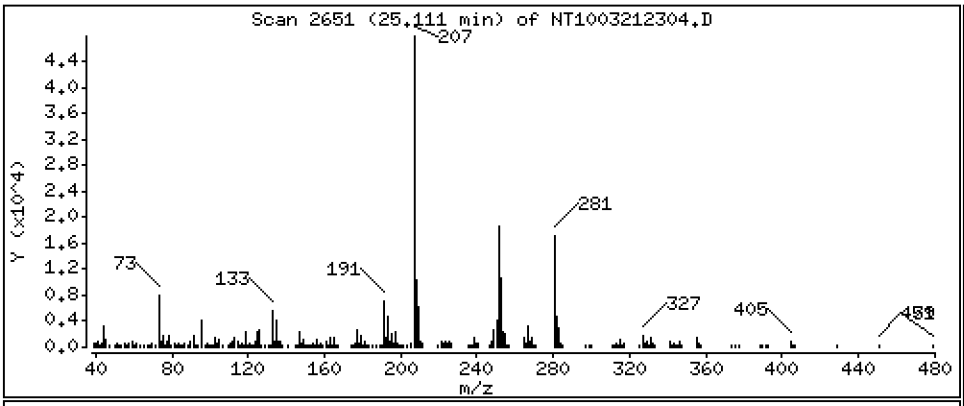
Client ID: Instrument: nt10.i

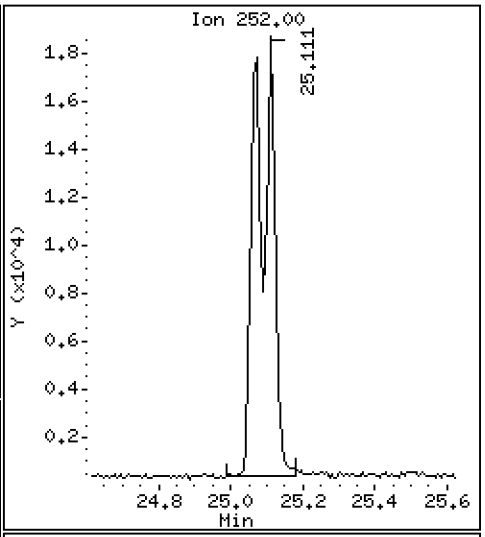
Sample Info: SLC0451-LCV1

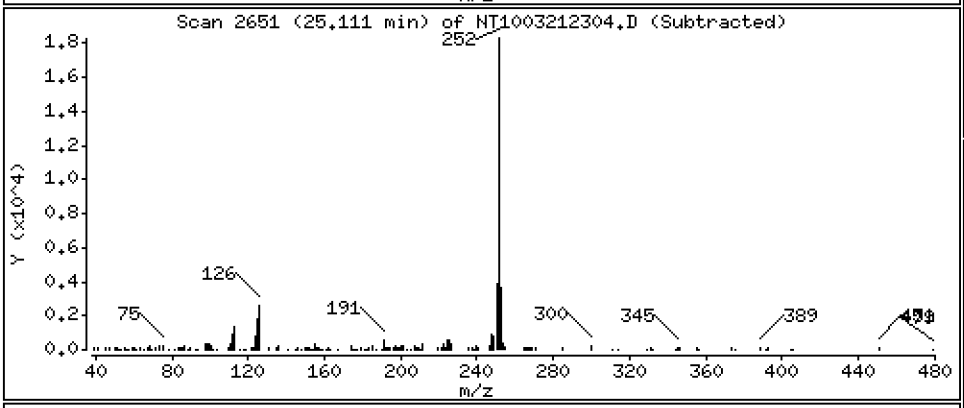
Operator: VTS

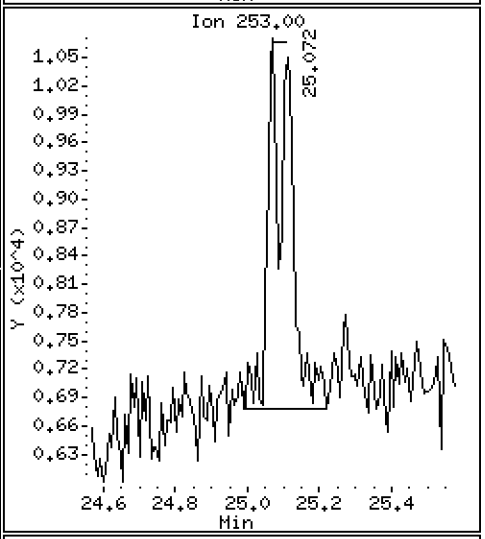
Column phase: ZB-5msi Column diameter: 0.25

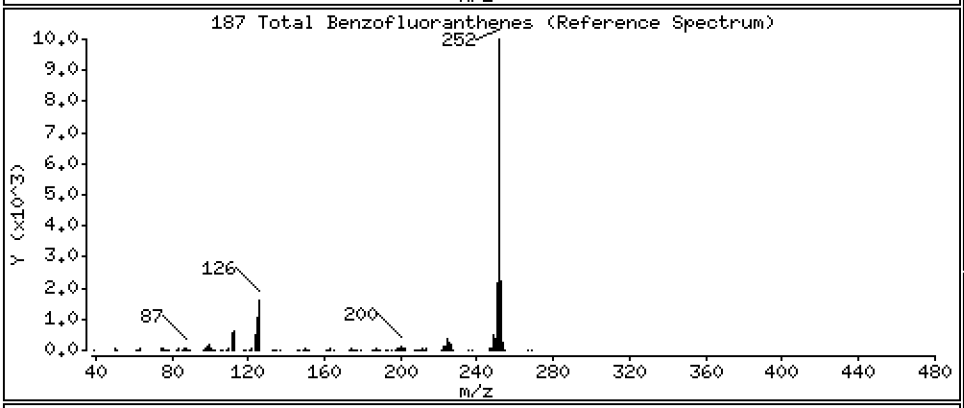
187 Total Benzofluoranthenes Concentration: 0.4086 ug/mL

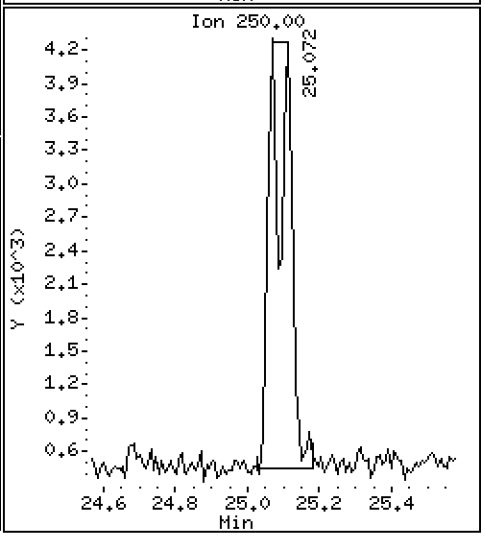


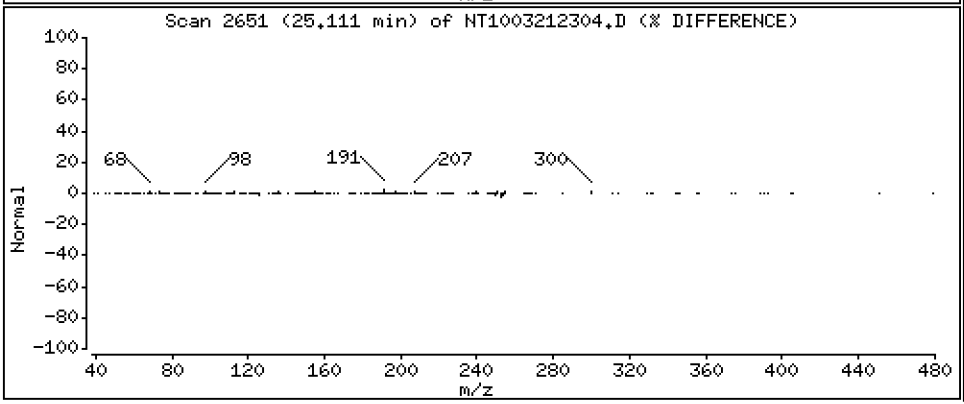












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Date : 21-MAR-2023 19:04

Client ID:

Instrument: nt10.i

Sample Info: SLC0451-LCV1

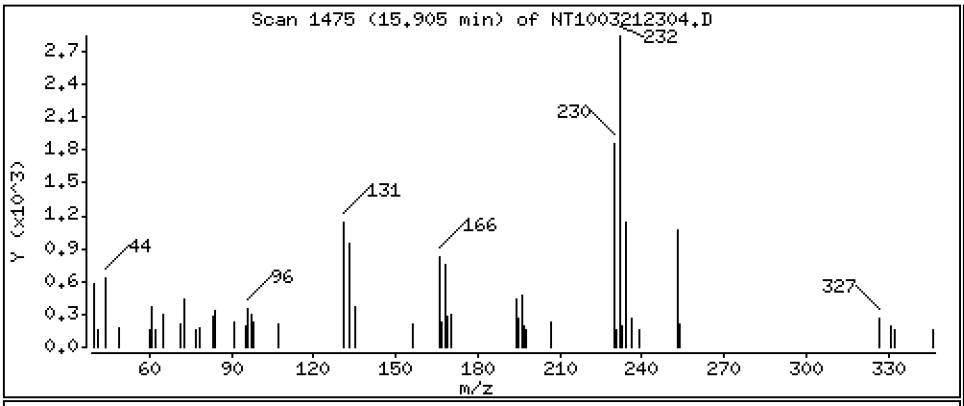
Operator: VTS

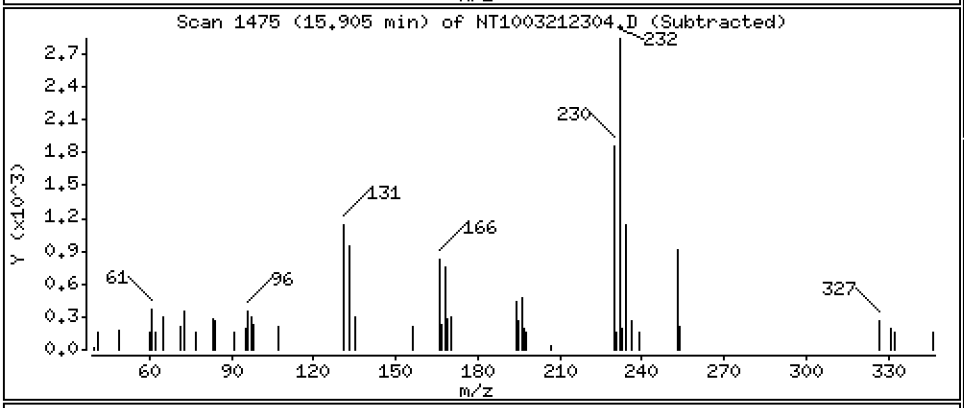
Column phase: ZB-5msi

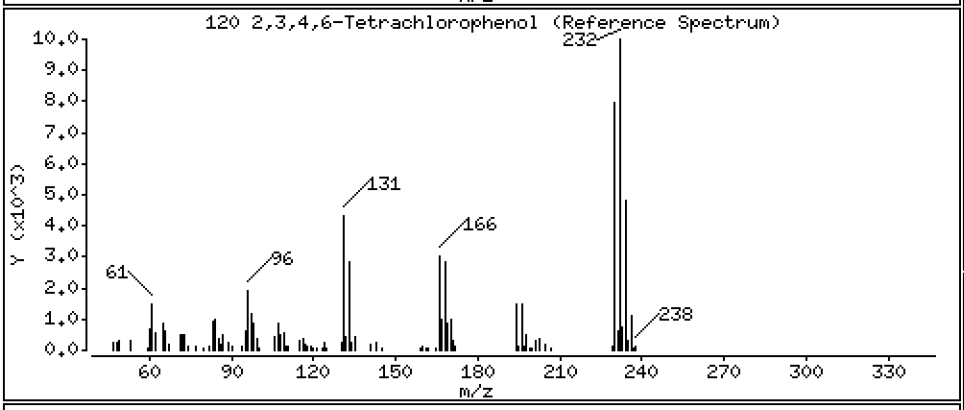
Column diameter: 0.25

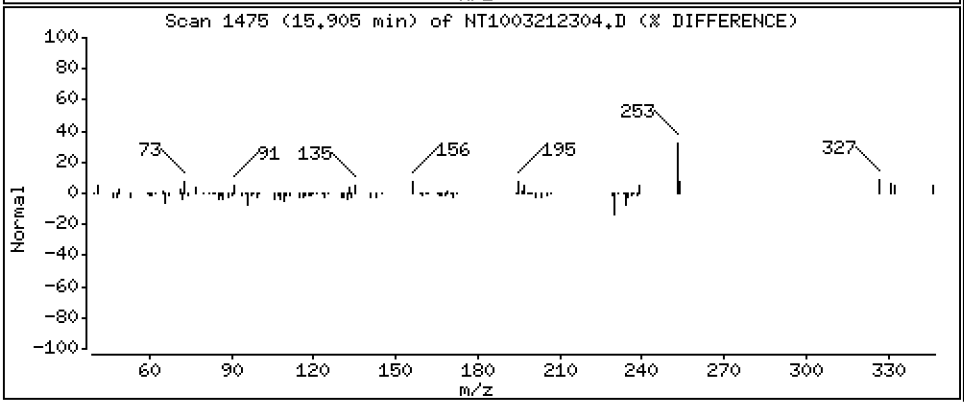
120 2,3,4,6-Tetrachlorophenol

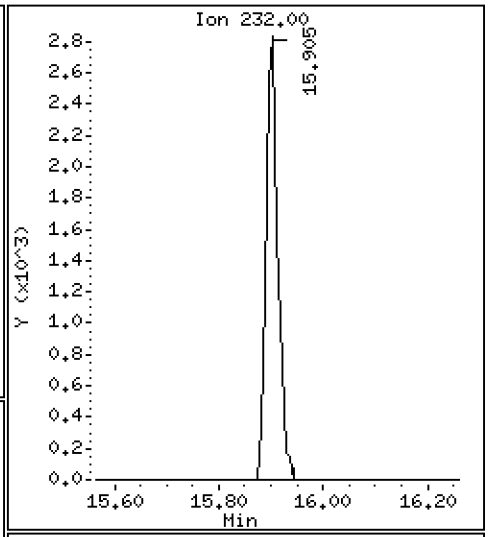
Concentration: 0.1454 ug/mL

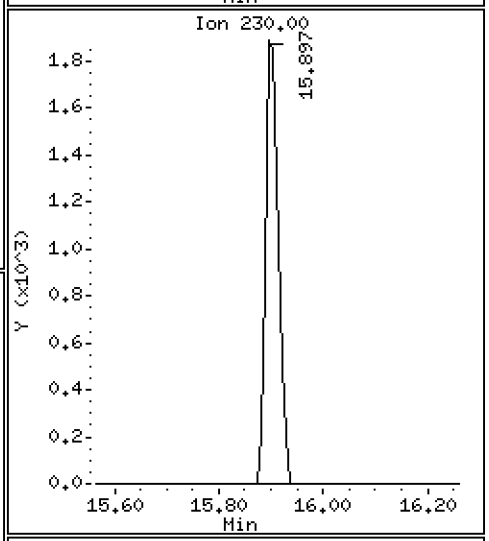


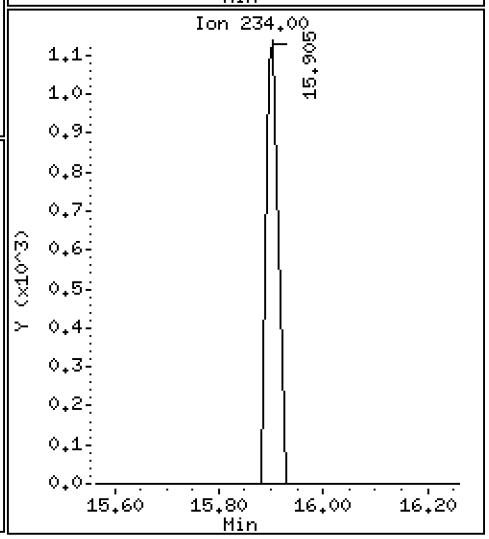












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

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Inj Date : 21-MAR-2023 19:04
Operator : VTS Inst ID: nt10.i
Smp Info : SLC0451-LCV1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230321.b\ABN.m
Meth Date : 29-Mar-2023 06:54 van Quant Type: ISTD
Cal Date : 16-MAR-2023 00:22 Cal File: NT10031508.D
Als bottle: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

							CONCENTRATIONS		
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)	
$	1 2-Fluorophenol	112	6.890	6.889	(0.728)	13369	0.28096	0.2810	
$	2 Phenol-d5	99	8.466	8.473	(0.894)	16402	0.26276	0.2628	
	3 Phenol	94	8.489	8.497	(0.897)	12296	0.18956	0.1896	
$	5 2-Chlorophenol-d4	132	8.744	8.744	(0.924)	14955	0.28056	0.2806	
	4 Bis(2-Chloroethyl)ether	93	8.651	8.659	(0.914)	10397	0.21611	0.2161	
	6 2-Chlorophenol	128	8.775	8.775	(0.927)	10424	0.18777	0.1878	
	7 1,3-Dichlorobenzene	146	9.038	9.045	(0.955)	12068	0.20562	0.2056	
*	8 1,4-Dichlorobenzene-d4	152	9.108	9.108	(1.000)	157344	4.00000	(H)	
	9 1,4-Dichlorobenzene	146	9.139	9.139	(0.966)	11951	0.21079	0.2108	
$	10 1,2-Dichlorobenzene-d4	152	9.465	9.465	(1.000)	8160	0.21317	0.2132	
	12 1,2-Dichlorobenzene	146	9.496	9.496	(1.003)	11636	0.20854	0.2085	
	11 Benzyl alcohol	108	9.380	9.379	(0.991)	4510	0.14813	0.1481	
	14 2,2'-oxybis(1-Chloropropane)	121	9.675	9.682	(1.022)	3236	0.19748	0.1975	
	13 2-Methylphenol	108	9.605	9.604	(1.015)	8566	0.18116	0.1812	
	17 Hexachloroethane	117	10.078	10.086	(1.065)	4104	0.17642	0.1764	
	16 N-Nitroso-di-n-propylamine	70	9.931	9.938	(1.049)	6214	0.16643	0.1664	
	15 4-Methylphenol	108	9.869	9.876	(1.043)	8249	0.16557	0.1656	
$	18 Nitrobenzene-d5	82	10.202	10.202	(0.881)	9834	0.17373	0.1737	
	19 Nitrobenzene	77	10.233	10.241	(0.884)	10094	0.18171	0.1817	
	20 Isophorone	82	10.676	10.683	(0.922)	11110	0.15634	0.1563	
	21 2-Nitrophenol	139	10.859	10.858	(0.938)	4392	0.16260	0.1626	
	22 2,4-Dimethylphenol	107	10.910	10.918	(0.942)	18277	0.35820	0.3582	
	23 Bis(2-Chloroethoxy)methane	93	11.105	11.113	(0.959)	9047	0.19059	0.1906	
	24 Benzoic acid	105	11.003	11.113	(0.950)	8991	0.31721	0.3172(H)	
	25 2,4-Dichlorophenol	162	11.308	11.316	(0.977)	14802	0.36252	0.3625	
	26 1,2,4-Trichlorobenzene	180	11.495	11.502	(0.993)	10965	0.22877	0.2288	
*	27 Naphthalene-d8	136	11.580	11.587	(1.000)	560807	4.00000		
	28 Naphthalene	128	11.619	11.626	(1.003)	31272	0.21049	0.2105	
	29 4-Chloroaniline	127	11.750	11.757	(1.015)	19675	0.33947	0.3395	
	30 Hexachlorobutadiene	225	11.982	11.989	(1.035)	6181	0.22009	0.2201	
	31 4-Chloro-3-methylphenol	107	12.709	12.716	(1.097)	14179	0.32078	0.3208	
	32 2-Methylnaphthalene	142	13.011	13.018	(1.124)	22725	0.21196	0.2120	
	33 Hexachlorocyclopentadiene	237	13.475	13.483	(0.888)	7037	0.25212	0.2521	

		QUANT SIG					CONCENTRATIONS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
	34 2,4,6-Trichlorophenol	196	13.630	13.637	(0.898)	10270	0.34455	0.3445
	35 2,4,5-Trichlorophenol	196	13.700	13.707	(0.903)	10925	0.32986	0.3299
$	36 2-Fluorobiphenyl	172	13.785	13.800	(0.909)	24832	0.20815	0.2082
	37 2-Chloronaphthalene	162	14.002	14.009	(0.923)	19898	0.20599	0.2060
	38 2-Nitroaniline	65	14.257	14.272	(0.940)	7179	0.26458	0.2646
	39 Dimethylphthalate	163	14.683	14.698	(0.968)	19846	0.20257	0.2026
	40 Acenaphthylene	152	14.861	14.876	(0.980)	29586	0.19656	0.1966
	41 2,6-Dinitrotoluene	165	14.822	14.837	(0.977)	6985	0.33004	0.3300
*	42 Acenaphthene-d10	164	15.170	15.185	(1.000)	301582	4.00000	
	43 3-Nitroaniline	138	15.108	15.116	(0.996)	6584	0.27562	0.2756
	44 Acenaphthene	153	15.240	15.247	(1.005)	19141	0.20584	0.2058
	45 2,4-Dinitrophenol	184	15.317	15.324	(1.010)	2607	0.20405	0.2041(M)
	46 Dibenzofuran	168	15.564	15.572	(1.026)	27812	0.20282	0.2028
	47 4-Nitrophenol	109	15.425	15.432	(1.017)	2730	0.18170	0.1817(M)
	48 2,4-Dinitrotoluene	165	15.626	15.641	(1.030)	8760	0.27363	0.2736
	50 Diethylphthalate	149	16.129	16.144	(1.063)	18337	0.19076	0.1908
	49 Fluorene	166	16.276	16.283	(1.073)	22066	0.20454	0.2045
	51 4-Chlorophenyl-phenylether	204	16.268	16.275	(1.072)	10874	0.21197	0.2120
	52 4-Nitroaniline	138	16.360	16.375	(1.078)	5621	0.26111	0.2611
	53 4,6-Dinitro-2-methylphenol	198	16.453	16.468	(0.904)	6542	0.39147	0.3915
	54 N-Nitrosodiphenylamine	169	16.515	16.522	(0.908)	14275	0.19313	0.1931
$	55 2,4,6-Tribromophenol	330	16.808	16.815	(1.108)	3226	0.22735	0.2273
	56 4-Bromophenyl-phenylether	248	17.263	17.270	(0.949)	6274	0.20290	0.2029
	57 Hexachlorobenzene	284	17.580	17.587	(0.966)	7484	0.23085	0.2308
	58 Pentachlorophenol	266	17.936	17.943	(0.986)	3994	0.20823	0.2082
*	59 Phenanthrene-d10	188	18.191	18.206	(1.000)	552854	4.00000	
	60 Phenanthrene	178	18.237	18.252	(1.003)	31171	0.20677	0.2068
	61 Anthracene	178	18.330	18.338	(1.008)	25958	0.17950	0.1795
	62 Carbazole	167	18.663	18.670	(1.026)	23550	0.18174	0.1817
	63 Di-n-butylphthalate	149	19.460	19.475	(1.070)	27245	0.15637	0.1564
	64 Fluoranthene	202	20.613	20.620	(0.888)	32160	0.17117	0.1712
	65 Pyrene	202	21.038	21.046	(0.906)	35233	0.18280	0.1828
$	66 Terphenyl-d14	244	21.325	21.332	(0.918)	28541	0.19719	0.1972
	67 Butylbenzylphthalate	149	22.254	22.261	(0.958)	12010	0.17745	0.1775
	68 Benzo(a)anthracene	228	23.191	23.198	(0.999)	32332	0.19590	0.1959
*	69 Chrysene-d12	240	23.222	23.229	(1.000)	467591	4.00000	
	70 3,3'-Dichlorobenzidine	252	23.152	23.159	(0.997)	30568	0.57821	0.5782
	71 Chrysene	228	23.268	23.275	(1.002)	32375	0.20078	0.2008
	72 bis(2-Ethylhexyl)phthalate	149	23.283	23.283	(0.959)	13329	0.14111	0.1411
*	134 Di-n-octylphthalate-d4	153	24.267	24.266	(1.000)	645864	4.00000	
	73 Di-n-octylphthalate	149	24.274	24.282	(1.000)	35236	0.20847	0.2085
	74 Benzo(b)fluoranthene	252	25.072	25.071	(0.971)	32533	0.19379	0.1938
	75 Benzo(k)fluoranthene	252	25.110	25.118	(0.972)	36350	0.21324	0.2132
	76 Benzo(a)pyrene	252	25.714	25.722	(0.996)	28532	0.19010	0.1901
*	77 Perylene-d12	264	25.831	25.830	(1.000)	517894	4.00000	
	78 Indeno(1,2,3-cd)pyrene	276	28.451	28.466	(1.101)	37283	0.19525	0.1952
	79 Dibenzo(a,h)anthracene	278	28.467	28.482	(1.102)	32345	0.20403	0.2040
	80 Benzo(g,h,i)perylene	276	29.228	29.235	(1.132)	33707	0.20397	0.2040
	90 N-Nitrosodimethylamine	74	4.735	4.727	(0.500)	11789	0.38835	0.3883
	91 Aniline	93	8.567	8.566	(0.905)	24056	0.36194	0.3619
	93 Benzidine	184	20.853	20.860	(0.898)	19851	0.25722	0.2572
	103 Pyridine	79	4.789	4.758	(0.506)	17993	0.38594	0.3859
	105 1-methylnaphthalene	142	13.228	13.243	(1.142)	20623	0.20994	0.2099
	111 Azobenzene (1,2-DP-Hydrazine)	77	16.584	16.599	(1.093)	18529	0.17256	0.1726

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.110	25.118	(0.972)	66237	0.40865	0.4086
120 2,3,4,6-Tetrachlorophenol	232	15.904	15.912	(1.048)	4413	0.14536	0.1454

QC Flag Legend

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

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1003212304.D
Lab Smp Id: SLC0451-LCV1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230321.b\ABN.m
Misc Info:

Calibration Date: 21-MAR-2023
Calibration Time: 17:46
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	138414	69207	276828	157344	13.68
27 Naphthalene-d8	511348	255674	1022696	560807	9.67
42 Acenaphthene-d10	293241	146621	586482	301582	2.84
59 Phenanthrene-d10	535484	267742	1070968	552854	3.24
69 Chrysene-d12	464733	232367	929466	467591	0.61
134 Di-n-octylphthala	716354	358177	1432708	645864	-9.84
77 Perylene-d12	509704	254852	1019408	517894	1.61

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.11	8.61	9.61	9.11	0.01
27 Naphthalene-d8	11.59	11.09	12.09	11.58	-0.06
42 Acenaphthene-d10	15.19	14.69	15.69	15.17	-0.10
59 Phenanthrene-d10	18.21	17.71	18.71	18.19	-0.08
69 Chrysene-d12	23.23	22.73	23.73	23.22	-0.03
134 Di-n-octylphthala	24.27	23.77	24.77	24.27	0.00
77 Perylene-d12	25.83	25.33	26.33	25.83	0.00

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

REVIEW SUMMARY FOR FILE - NT1003212304.D

Lab ID: SLC0451-LCV1
nt10.i, 20230321.b\ABN.m,   21-MAR-2023 19:04

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.950	0.959	-0.0089	Benzoic acid

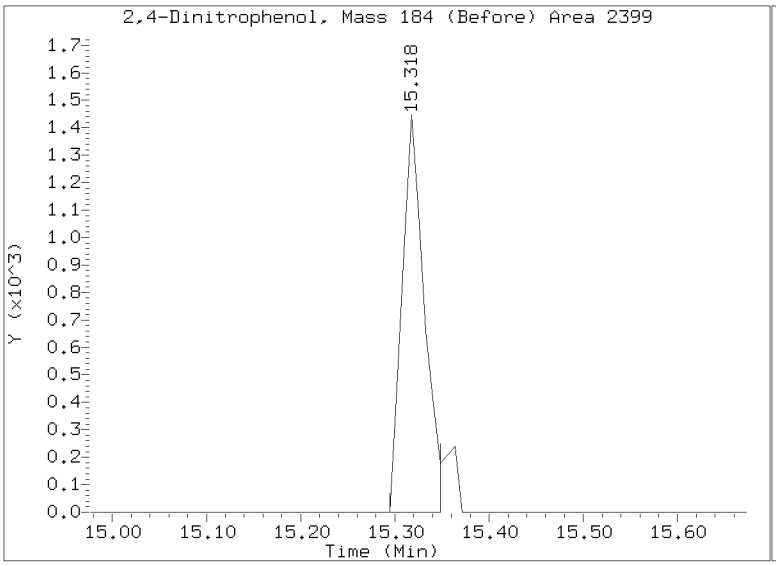
RRT check based on Ccal File: NT1003212302.D

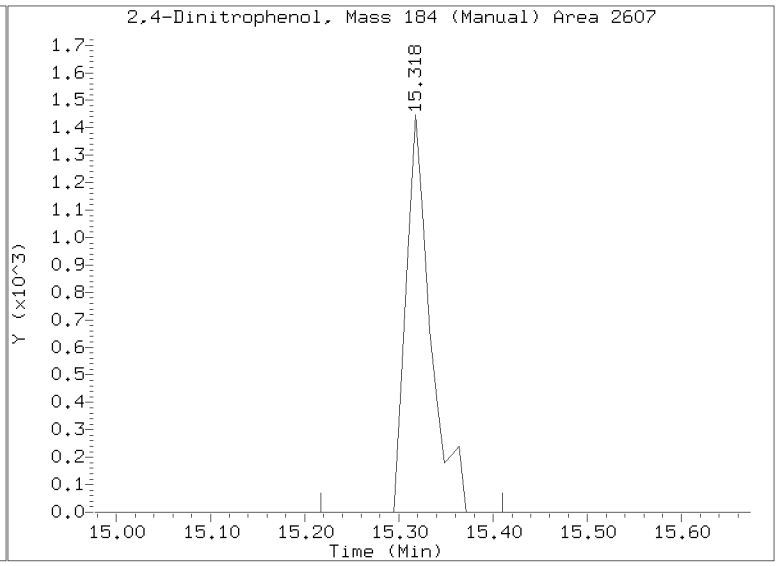
On Column LOD for nt10.i, 20230321.b\ABN.m, ICAL.sub = 0.0000

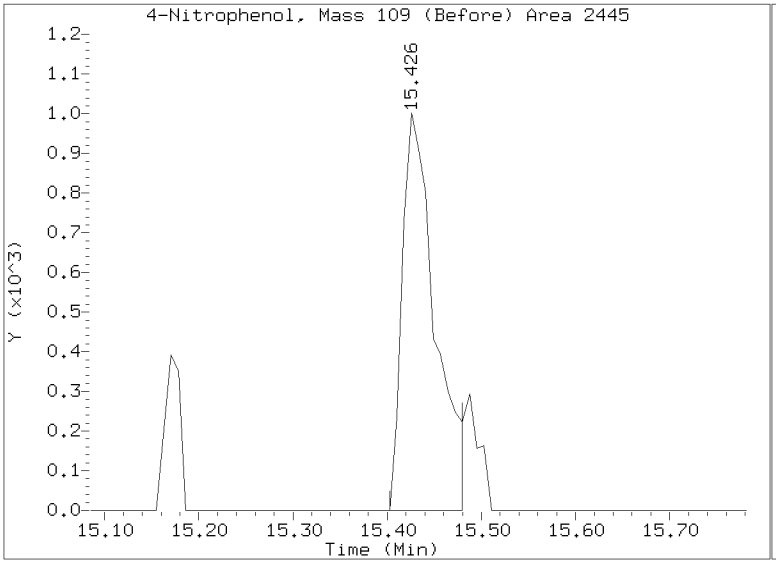
* Only compounds listed in the work order have been verified by the analyst *

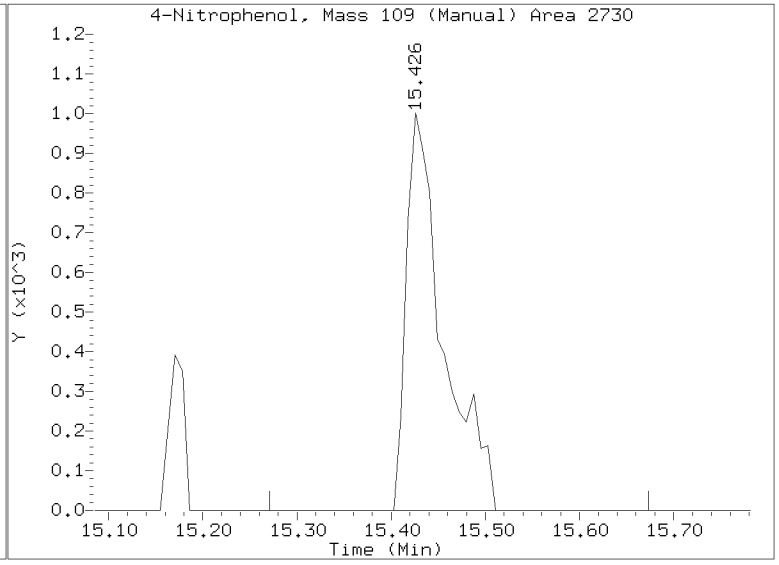
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230321.b/NT1003212304.D
Injection Date: 21-MAR-2023 19:04
Lab ID:SLC0451-LCV1 Client ID:
Report Date: 03/29/2023 08:01









Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLC0228	Instrument:	NT10
		Calibration:	GC00046

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
MS Tune	SLC0228-TUN1	NT10031501.D	NA	03/15/23 20:19
CAL 20	SLC0228-CAL7	NT10031502.D	NA	03/15/23 20:34
CAL 10	SLC0228-CAL6	NT10031503.D	NA	03/15/23 21:12
CAL 5	SLC0228-CAL5	NT10031504.D	NA	03/15/23 21:50
CAL 2.5	SLC0228-CAL4	NT10031505.D	NA	03/15/23 22:28
CAL 1.0	SLC0228-CAL3	NT10031506.D	NA	03/15/23 23:06
CAL 0.5	SLC0228-CAL2	NT10031507.D	NA	03/15/23 23:44
CAL 0.2	SLC0228-CAL1	NT10031508.D	NA	03/16/23 00:22
SCV 5.0	SLC0228-SCV1	NT10031511.D	NA	03/16/23 02:16
Initial Cal Blank	SLC0228-ICB1	NT10031512.D	NA	03/16/23 02:54

ANALYSIS SEQUENCE

SLC0228

Instrument ID: NT10
Calibration ID: GC00046
MS EM Level: 1271 EV

GCMS Description: Agilent 5975/MS http://bi
GCMS Column ID: L002830

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	File ID	Analyst	Comments
SLC0228-TUN1	MS Tune	QC		1	K004775		03/15/2023 20:19	NT10031501.D	JGR	
SLC0228-CAL7	CAL 20	QC		2	K011111	K010831	03/15/2023 20:34	NT10031502.D	VTS	
SLC0228-CAL6	CAL 10	QC		3	K011110	K010831	03/15/2023 21:12	NT10031503.D	VTS	
SLC0228-CAL5	CAL 5	QC		4	K011109	K010831	03/15/2023 21:50	NT10031504.D	VTS	
SLC0228-CAL4	CAL 2.5	QC		5	K011108	K010831	03/15/2023 22:28	NT10031505.D	VTS	
SLC0228-CAL3	CAL 1.0	QC		6	K011107	K010831	03/15/2023 23:06	NT10031506.D	VTS	
SLC0228-CAL2	CAL 0.5	QC		7	K011106	K010831	03/15/2023 23:44	NT10031507.D	VTS	
SLC0228-CAL1	CAL 0.2	QC		8	K011105	K010831	03/16/2023 00:22	NT10031508.D	VTS	
SLC0228-SCV1	SCV 5.0	QC		9	L002833	K010831	03/16/2023 02:16	NT10031511.D	VTS	
SLC0228-ICB1	Initial Cal Blank	QC		10	K005156	K010831	03/16/2023 02:54	NT10031512.D	VTS	

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230315.b

	Time	Filename	LabID	ClientId	DF																			
1	2019	NT10031501.D	SLC0228-TUN1		1	|NO ISTDS FOUND||																		
2	2034	NT10031502.D	SLC0228-CAL7		1	| 9.30	177375	||11.78	659656	||15.38	352987	||18.42	587447	||23.46	356463	||26.19	404994	||24.49	617041	|				
3	2112	NT10031503.D	SLC0228-CAL6		1	| 9.30	174984	||11.78	633941	||15.38	344087	||18.42	605930	||23.46	437116	||26.18	463440	||24.48	674085	|				
4	2150	NT10031504.D	SLC0228-CAL5		1	| 9.30	171542	||11.78	624466	||15.38	337226	||18.42	572849	||23.45	347068	||26.18	421549	||24.48	500317	|				
5	2228	NT10031505.D	SLC0228-CAL4		1	| 9.30	158570	||11.78	582079	||15.38	306729	||18.42	522311	||23.45	356282	||26.18	420725	||24.48	471925	|				
6	2306	NT10031506.D	SLC0228-CAL3		1	| 9.29	172257	||11.78	625894	||15.38	330997	||18.42	568685	||23.45	426836	||26.18	489106	||24.48	555437	|				
7	2344	NT10031507.D	SLC0228-CAL2		1	| 9.30	176328	||11.78	638835	||15.38	333617	||18.42	594262	||23.45	428263	||26.18	479116	||24.48	530893	|				
8	0022	NT10031508.D	SLC0228-CAL1		1	| 9.29	173382	||11.77	622719	||15.38	323444	||18.42	582036	||23.45	443504	||26.18	490725	||24.48	540769	|				
9	0100	NT10031509.D	SEQ-SIM2		1	| 9.29	175576	||11.78	624440	||15.38	329518	||18.42	581173	||23.45	424576	||26.18	472151	||24.48	491201	|				
10	0138	NT10031510.D	SEQ-SIM1		1	| 9.30	172228	||11.77	609518	||15.38	313933	||18.42	564567	||23.45	413842	||26.18	461161	||24.48	469814	|				
11	0216	NT10031511.D	SLC0228-SCV1		1	| 9.30	154809	||11.78	570882	||15.38	303490	||18.42	533431	||23.46	435381	||26.19	494648	||24.49	660827	|				
12	0254	NT10031512.D	SLC0228-ICB1		1	| 9.30	173115	||11.78	625865	||15.38	328712	||18.42	592693	||23.45	442208	||26.18	499804	||24.48	526309	|				

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230315.b

Instrument: nt10.i Date: 15-MAR-2023

Time	Filename	LabID	DF	Manually Integrated Compounds
2019	NT10031501.D	SLC0228-TUN1	1	NO MANUAL INTEGRATION
2034	NT10031502.D	SLC0228-CAL7	1	Benzoic acid,
2112	NT10031503.D	SLC0228-CAL6	1	2,2'-oxybis(1-Chloropropane),
2150	NT10031504.D	SLC0228-CAL5	1	2,2'-oxybis(1-Chloropropane),
2228	NT10031505.D	SLC0228-CAL4	1	2,2'-oxybis(1-Chloropropane),
2306	NT10031506.D	SLC0228-CAL3	1	2,2'-oxybis(1-Chloropropane),
2344	NT10031507.D	SLC0228-CAL2	1	2,2'-oxybis(1-Chloropropane), Benzoic acid,
0022	NT10031508.D	SLC0228-CAL1	1	2,2'-oxybis(1-Chloropropane), 1,2-Dichlorobenzene-d4,
0100	NT10031509.D	SEQ-SIM2	1	NO MANUAL INTEGRATION
0138	NT10031510.D	SEQ-SIM1	1	NO MANUAL INTEGRATION
0216	NT10031511.D	SLC0228-SCV1	1	NO MANUAL INTEGRATION
0254	NT10031512.D	SLC0228-ICB1	1	NO MANUAL INTEGRATION

Security Status Report

Date: 16-Mar-2023 13:06

NT10031501.D	Data Locked	van, 16-Mar-2023 13:06
NT10031502.D	Data Locked	van, 16-Mar-2023 13:06
NT10031503.D	Data Locked	van, 16-Mar-2023 13:06
NT10031504.D	Data Locked	van, 16-Mar-2023 13:06
NT10031505.D	Data Locked	van, 16-Mar-2023 13:06
NT10031506.D	Data Locked	van, 16-Mar-2023 13:06
NT10031507.D	Data Locked	van, 16-Mar-2023 13:06
NT10031508.D	Data Locked	van, 16-Mar-2023 13:06
NT10031509.D	Data Locked	van, 16-Mar-2023 13:06
NT10031510.D	Data Locked	van, 16-Mar-2023 13:06
NT10031511.D	Data Locked	van, 16-Mar-2023 13:06
NT10031512.D	Data Locked	van, 16-Mar-2023 13:06

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLC0451	Instrument:	NT10
		Calibration:	GC00046

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
MS Tune	SLC0451-TUN1	NT1003212301.D	NA	03/21/23 17:30
ABN 5	SLC0451-ICV1	NT1003212302.D	NA	03/21/23 17:46
ABN 0.2	SLC0451-LCV1	NT1003212304.D	NA	03/21/23 19:04
Blank	BLC0109-BLK1	NT1003212306.D	Solid	03/21/23 20:21
LCS	BLC0109-BS1	NT1003212307.D	Solid	03/21/23 21:00
LCS Dup	BLC0109-BSD1	NT1003212308.D	Solid	03/21/23 21:39
Reference	BLC0109-SRM1	NT1003212309.D	Solid	03/21/23 22:18
LDW23-SS1000	23C0071-01	NT1003212310.D	Solid	03/21/23 22:56
LDW23-SS1037	23C0071-02	NT1003212311.D	Solid	03/21/23 23:35
LDW23-SS1036	23C0071-03	NT1003212312.D	Solid	03/22/23 00:13
LDW23-SS1044	23C0071-04	NT1003212313.D	Solid	03/22/23 00:52
LDW23-SS1048	23C0071-05	NT1003212314.D	Solid	03/22/23 01:30
LDW23-SS1048	BLC0109-MS1	NT1003212315.D	Solid	03/22/23 02:08
LDW23-SS1048	BLC0109-MSD1	NT1003212316.D	Solid	03/22/23 02:46
LDW23-SS1054	23C0071-06	NT1003212317.D	Solid	03/22/23 03:25
Calibration Check	SLC0451-CCV1	NT1003212318.D	NA	03/22/23 04:03

ANALYSIS SEQUENCE

SLC0451

Instrument ID: NT10
Calibration ID: GC00046
MS EM Level: 1365 EV

GCMS Description: Agilent 5975/MS http://bi
GCMS Column ID: L002830

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	File ID	Analyst	Comments
SLC0451-TUN1	MS Tune	QC		1	K004775		03/21/2023 17:30	NT1003212301.D	JGR	
SLC0451-ICV1	ABN 5	QC		2	K011109	K010831	03/21/2023 17:46	NT1003212302.D	VTS	
SLC0451-LCV1	ABN 0.2	QC		3	K011105	K010831	03/21/2023 19:04	NT1003212304.D	VTS	
BLC0109-BLK1	Blank	QC		4		K010831	03/21/2023 20:21	NT1003212306.D	VTS	
BLC0109-BS1	LCS	QC		5		K010831	03/21/2023 21:00	NT1003212307.D	VTS	
BLC0109-BSD1	LCS Dup	QC		6		K010831	03/21/2023 21:39	NT1003212308.D	VTS	
BLC0109-SRM1	Reference	QC		7		K010831	03/21/2023 22:18	NT1003212309.D	VTS	
23C0071-01	LDW23-SS1000	(20ug/kg solid or 0.2ug/L l	A 02	8		K010831	03/21/2023 22:56	NT1003212310.D	VTS	
23C0071-02	LDW23-SS1037	(20ug/kg solid or 0.2ug/L l	A 02	9		K010831	03/21/2023 23:35	NT1003212311.D	VTS	
23C0071-03	LDW23-SS1036	(20ug/kg solid or 0.2ug/L l	A 02	10		K010831	03/22/2023 00:13	NT1003212312.D	VTS	
23C0071-04	LDW23-SS1044	(20ug/kg solid or 0.2ug/L l	A 02	11		K010831	03/22/2023 00:52	NT1003212313.D	VTS	
23C0071-05	LDW23-SS1048	(20ug/kg solid or 0.2ug/L l	A 02	12		K010831	03/22/2023 01:30	NT1003212314.D	VTS	
BLC0109-MS1	Matrix Spike	QC		13		K010831	03/22/2023 02:08	NT1003212315.D	VTS	
BLC0109-MSD1	Matrix Spike Dup	QC		14		K010831	03/22/2023 02:46	NT1003212316.D	VTS	
23C0071-06	LDW23-SS1054	(20ug/kg solid or 0.2ug/L l	A 02	15		K010831	03/22/2023 03:25	NT1003212317.D	VTS	
SLC0451-CCV1	Calibration Check	QC		16	K011109	K010831	03/22/2023 04:03	NT1003212318.D	VTS	

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230321.b

	Time	Filename	LabID	ClientId	DF							
1	1730	NT1003212301.D	SLC0451-TUN1		1	NO ISTDS FOUND						
2	1746	NT1003212302.D	SLC0451-ICV1		1	9.11 138414	11.59 511348	15.19 293241	18.21 535484	23.23 464733	25.83 509704	24.27 716354
3	1825	NT1003212303.D	SEQ-ICVSIM		1	9.11 147203	11.58 535550	15.18 302756	18.20 554275	23.23 472878	25.84 526559	24.27 685676
4	1904	NT1003212304.D	SLC0451-LCV1		1	9.11 157344	11.58 560807	15.17 301582	18.19 552854	23.22 467591	25.83 517894	24.27 645864
5	1943	NT1003212305.D	SEQ-LCV100		1	9.11 153507	11.58 543077	15.18 297784	18.19 530520	23.22 442087	25.83 493883	24.27 611164
6	2021	NT1003212306.D	BLC0109-BLK1		1	9.11 179118	11.58 634321	15.17 348967	18.19 629651	23.22 512223	25.83 538678	24.27 765553
7	2100	NT1003212307.D	BLC0109-BS1		1	9.11 201241	11.58 735413	15.18 417930	18.19 759275	23.22 632743	25.83 679654	24.27 1033131
8	2139	NT1003212308.D	BLC0109-BSD1		1	9.10 181232	11.58 668127	15.18 381259	18.20 687593	23.24 576445	25.85 607691	24.27 932488
9	2218	NT1003212309.D	BLC0109-SRM1		1	9.10 182595	11.58 656870	15.17 370957	18.19 680578	23.23 557190	25.84 625232	24.27 962534
10	2256	NT1003212310.D	23C0071-01		1	9.10 204088	11.57 728355	15.18 410982	18.20 775737	23.24 705986	25.86 840603	24.28 1179850
11	2335	NT1003212311.D	23C0071-02		1	9.10 210204	11.57 759571	15.17 416429	18.20 775606	23.24 698045	25.86 807272	24.28 1160658
12	0013	NT1003212312.D	23C0071-03		1	9.10 208826	11.57 746487	15.17 420566	18.19 787020	23.24 701591	25.86 823087	24.28 1201053
13	0052	NT1003212313.D	23C0071-04		1	9.10 199666	11.57 726636	15.17 399032	18.19 747415	23.24 679791	25.86 798080	24.28 1142459
14	0130	NT1003212314.D	23C0071-05		1	9.10 195253	11.57 696525	15.17 380877	18.19 712663	23.23 641988	25.85 763139	24.27 1083812
15	0208	NT1003212315.D	BLC0109-MS1		1	9.10 193736	11.57 709454	15.17 400302	18.19 755922	23.24 684055	25.85 786308	24.27 1117093
16	0246	NT1003212316.D	BLC0109-MSD1		1	9.09 181241	11.57 656122	15.17 371192	18.19 711118	23.24 637480	25.85 729308	24.27 1045903
17	0325	NT1003212317.D	23C0071-06		1	9.09 190288	11.57 674784	15.17 384071	18.20 720469	23.24 635377	25.85 722414	24.27 1034441
18	0403	NT1003212318.D	SLC0451-CCV1		1	9.10 145932	11.57 526548	15.17 296071	18.19 552984	23.23 507311	25.85 596603	24.27 833237

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230321.b

Instrument: nt10.i Date: 21-MAR-2023

Time	Filename	LabID	DF	Manually Integrated Compounds
1730	NT1003212301.D	SLC0451-TUN1	1	NO MANUAL INTEGRATION
1746	NT1003212302.D	SLC0451-ICV1	1	2,2'-oxybis(1-Chloropropane),
1825	NT1003212303.D	SEQ-ICVSIM	1	NO MANUAL INTEGRATION
1904	NT1003212304.D	SLC0451-LCV1	1	2,4-Dinitrophenol, 4-Nitrophenol,
1943	NT1003212305.D	SEQ-LCV100	1	NO MANUAL INTEGRATION
2021	NT1003212306.D	BLC0109-BLK1	1	NO MANUAL INTEGRATION
2100	NT1003212307.D	BLC0109-BS1	1	NO MANUAL INTEGRATION
2139	NT1003212308.D	BLC0109-BSD1	1	NO MANUAL INTEGRATION
2218	NT1003212309.D	BLC0109-SRM1	1	NO MANUAL INTEGRATION
2256	NT1003212310.D	23C0071-01	1	2-Methylphenol, Acenaphthylene,
2335	NT1003212311.D	23C0071-02	1	2-Methylphenol, Dibenzo(a,h)anthracene,
0013	NT1003212312.D	23C0071-03	1	2-Methylphenol,
0052	NT1003212313.D	23C0071-04	1	2-Methylphenol, Benzoic acid, Dibenzo(a,h)anthracene,
0130	NT1003212314.D	23C0071-05	1	Benzoic acid, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene,
0208	NT1003212315.D	BLC0109-MS1	1	3-Nitroaniline,
0246	NT1003212316.D	BLC0109-MSD1	1	3-Nitroaniline,
0325	NT1003212317.D	23C0071-06	1	2-Methylphenol, Butylbenzylphthalate, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene,

Instrument: nt10.i Date: 22-MAR-2023

Time	Filename	LabID	DF	Manually Integrated Compounds
0403	NT1003212318.D	SLC0451-CCV1	1	2,2'-oxybis(1-Chloropropane),

Security Status Report

Date: 29-Mar-2023 08:25

NT1003212301.D	Data Locked	van, 29-Mar-2023 08:24
NT1003212302.D	Data Locked	van, 29-Mar-2023 08:24
NT1003212303.D	Data Locked	van, 29-Mar-2023 08:24
NT1003212304.D	Data Locked	van, 29-Mar-2023 08:24
NT1003212305.D	Data Locked	van, 29-Mar-2023 08:24
NT1003212306.D	Data Locked	van, 29-Mar-2023 08:24
NT1003212307.D	Data Locked	van, 29-Mar-2023 08:24
NT1003212308.D	Data Locked	van, 29-Mar-2023 08:24
NT1003212309.D	Data Locked	van, 29-Mar-2023 08:24
NT1003212310.D	Data Locked	van, 29-Mar-2023 08:24
NT1003212311.D	Data Locked	van, 29-Mar-2023 08:24
NT1003212312.D	Data Locked	van, 29-Mar-2023 08:24
NT1003212313.D	Data Locked	van, 29-Mar-2023 08:24
NT1003212314.D	Data Locked	van, 29-Mar-2023 08:24
NT1003212315.D	Data Locked	van, 29-Mar-2023 08:24
NT1003212316.D	Data Locked	van, 29-Mar-2023 08:24
NT1003212317.D	Data Locked	van, 29-Mar-2023 08:24
NT1003212318.D	Data Locked	van, 29-Mar-2023 08:24

SURROGATE RECOVERY AND RT SUMMARY
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG/WO:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLC0228	Instrument:	NT10
Calibration:	GC00046	Calibration Date:	03/16/2023

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SLC0228-SCV1 (Solid)			Lab File ID: NT10031511.D			Analyzed: 03/16/23 02:16		
2-Fluorophenol			80 - 120		7.067714	-7.0677	N/A	
Phenol-d5			80 - 120		8.638143	-8.6381	N/A	
2-Chlorophenol-d4			80 - 120		8.931857	-8.9319	N/A	
1,2-Dichlorobenzene-d4			80 - 120		9.659143	-9.6591	N/A	
Nitrobenzene-d5			80 - 120		10.389	-10.3890	N/A	
2-Fluorobiphenyl			80 - 120		13.982	-13.9820	N/A	
2,4,6-Tribromophenol			80 - 120		17.02143	-17.0214	N/A	
p-Terphenyl-d14			80 - 120		21.54257	-21.5426	N/A	
SLC0228-ICB1 (Solid)			Lab File ID: NT10031512.D			Analyzed: 03/16/23 02:54		
2-Fluorophenol	7.5000	92.3	27 - 120	7.067	7.067714	-0.0007	N/A	
Phenol-d5	7.5000	92.6	29 - 120	8.636	8.638143	-0.0021	N/A	
2-Chlorophenol-d4	7.5000	94.7	31 - 120	8.929	8.931857	-0.0029	N/A	
1,2-Dichlorobenzene-d4	5.0000	92.2	32 - 120	9.658	9.659143	-0.0011	N/A	
Nitrobenzene-d5	5.0000	93.1	30 - 120	10.387	10.389	-0.0020	N/A	
2-Fluorobiphenyl	5.0000	94.6	35 - 120	13.981	13.982	-0.0010	N/A	
2,4,6-Tribromophenol	7.5000	74.6	24 - 134	17.02	17.02143	-0.0014	N/A	
p-Terphenyl-d14	5.0000	91.7	37 - 120	21.544	21.54257	0.0014	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8270E

Laboratory: Analytical Resources, LLC
SDG/WO: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLC0451
Instrument: NT10
Calibration: GC00046
Calibration Date: 03/16/2023

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SLC0451-ICV1 (Solid)			Lab File ID: NT1003212302.D			Analyzed: 03/21/23 17:46		
2-Fluorophenol	7.5000	101	80 - 120	6.889	7.067714	-0.1787	N/A	
Phenol-d5	7.5000	98.6	80 - 120	8.473	8.638143	-0.1651	N/A	
2-Chlorophenol-d4	7.5000	99.9	80 - 120	8.744	8.931857	-0.1879	N/A	
1,2-Dichlorobenzene-d4	5.0000	98.6	80 - 120	9.465	9.659143	-0.1941	N/A	
Nitrobenzene-d5	5.0000	97.9	80 - 120	10.202	10.389	-0.1870	N/A	
2-Fluorobiphenyl	5.0000	96.2	80 - 120	13.8	13.982	-0.1820	N/A	
2,4,6-Tribromophenol	7.5000	117	80 - 120	16.815	17.02143	-0.2064	N/A	
p-Terphenyl-d14	5.0000	91.8	80 - 120	21.332	21.54257	-0.2106	N/A	
SLC0451-LCV1 (Solid)			Lab File ID: NT1003212304.D			Analyzed: 03/21/23 19:04		
2-Fluorophenol	0.30000	93.7	50 - 150	6.89	7.067714	-0.1777	N/A	
Phenol-d5	0.30000	87.6	50 - 150	8.466	8.638143	-0.1721	N/A	
2-Chlorophenol-d4	0.30000	93.5	50 - 150	8.744	8.931857	-0.1879	N/A	
1,2-Dichlorobenzene-d4	0.20000	107	50 - 150	9.465	9.659143	-0.1941	N/A	
Nitrobenzene-d5	0.20000	86.9	50 - 150	10.202	10.389	-0.1870	N/A	
2-Fluorobiphenyl	0.20000	104	50 - 150	13.785	13.982	-0.1970	N/A	
2,4,6-Tribromophenol	0.30000	75.8	50 - 150	16.808	17.02143	-0.2134	N/A	
p-Terphenyl-d14	0.20000	98.6	50 - 150	21.325	21.54257	-0.2176	N/A	
BLC0109-BLK1 (Solid)			Lab File ID: NT1003212306.D			Analyzed: 03/21/23 20:21		
2-Fluorophenol	750.00	54.3	27 - 120	6.89	7.067714	-0.1777	N/A	
Phenol-d5	750.00	58.6	29 - 120	8.466	8.638143	-0.1721	N/A	
2-Chlorophenol-d4	750.00	64.9	31 - 120	8.744	8.931857	-0.1879	N/A	
1,2-Dichlorobenzene-d4	500.00	68.0	32 - 120	9.465	9.659143	-0.1941	N/A	
Nitrobenzene-d5	500.00	69.8	30 - 120	10.194	10.389	-0.1950	N/A	
2-Fluorobiphenyl	500.00	72.0	35 - 120	13.785	13.982	-0.1970	N/A	
2,4,6-Tribromophenol	750.00	60.3	24 - 134	16.8	17.02143	-0.2214	N/A	
p-Terphenyl-d14	500.00	77.4	37 - 120	21.332	21.54257	-0.2106	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG/WO:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLC0451	Instrument:	NT10
Calibration:	GC00046	Calibration Date:	03/16/2023

Surrogate Compound	Spike Level ug/kg wet	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
BLC0109-BS1 (Solid)			Lab File ID: NT1003212307.D			Analyzed: 03/21/23 21:00		
2-Fluorophenol	750.00	67.0	27 - 120	6.89	7.067714	-0.1777	N/A	
Phenol-d5	750.00	70.7	29 - 120	8.466	8.638143	-0.1721	N/A	
2-Chlorophenol-d4	750.00	74.9	31 - 120	8.744	8.931857	-0.1879	N/A	
1,2-Dichlorobenzene-d4	500.00	71.4	32 - 120	9.465	9.659143	-0.1941	N/A	
Nitrobenzene-d5	500.00	73.0	30 - 120	10.194	10.389	-0.1950	N/A	
2-Fluorobiphenyl	500.00	76.5	35 - 120	13.785	13.982	-0.1970	N/A	
2,4,6-Tribromophenol	750.00	101	24 - 134	16.807	17.02143	-0.2144	N/A	
p-Terphenyl-d14	500.00	87.0	37 - 120	21.324	21.54257	-0.2186	N/A	
BLC0109-BSD1 (Solid)			Lab File ID: NT1003212308.D			Analyzed: 03/21/23 21:39		
2-Fluorophenol	750.00	77.8	27 - 120	6.89	7.067714	-0.1777	N/A	
Phenol-d5	750.00	81.0	29 - 120	8.466	8.638143	-0.1721	N/A	
2-Chlorophenol-d4	750.00	85.2	31 - 120	8.744	8.931857	-0.1879	N/A	
1,2-Dichlorobenzene-d4	500.00	82.4	32 - 120	9.465	9.659143	-0.1941	N/A	
Nitrobenzene-d5	500.00	82.2	30 - 120	10.195	10.389	-0.1940	N/A	
2-Fluorobiphenyl	500.00	83.9	35 - 120	13.785	13.982	-0.1970	N/A	
2,4,6-Tribromophenol	750.00	109	24 - 134	16.808	17.02143	-0.2134	N/A	
p-Terphenyl-d14	500.00	90.4	37 - 120	21.332	21.54257	-0.2106	N/A	
BLC0109-SRM1 (Solid)			Lab File ID: NT1003212309.D			Analyzed: 03/21/23 22:18		
2-Fluorophenol	7500.0	70.5	27 - 120	6.89	7.067714	-0.1777	N/A	
Phenol-d5	7500.0	75.6	29 - 120	8.466	8.638143	-0.1721	N/A	
2-Chlorophenol-d4	7500.0	78.8	31 - 120	8.744	8.931857	-0.1879	N/A	
1,2-Dichlorobenzene-d4	5000.0	73.5	32 - 120	9.465	9.659143	-0.1941	N/A	
Nitrobenzene-d5	5000.0	75.0	30 - 120	10.195	10.389	-0.1940	N/A	
2-Fluorobiphenyl	5000.0	80.5	35 - 120	13.785	13.982	-0.1970	N/A	
2,4,6-Tribromophenol	7500.0	105	24 - 134	16.8	17.02143	-0.2214	N/A	
p-Terphenyl-d14	5000.0	88.7	37 - 120	21.332	21.54257	-0.2106	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG/WO:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLC0451	Instrument:	NT10
Calibration:	GC00046	Calibration Date:	03/16/2023

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
23C0071-01 (Solid)			Lab File ID: NT1003212310.D			Analyzed: 03/21/23 22:56		
2-Fluorophenol	746.42	60.6	27 - 120	6.89	7.067714	-0.1777	N/A	
Phenol-d5	746.42	62.8	29 - 120	8.466	8.638143	-0.1721	N/A	
2-Chlorophenol-d4	746.42	68.8	31 - 120	8.736	8.931857	-0.1959	N/A	
1,2-Dichlorobenzene-d4	497.61	64.0	32 - 120	9.457	9.659143	-0.2021	N/A	
Nitrobenzene-d5	497.61	69.4	30 - 120	10.194	10.389	-0.1950	N/A	
2-Fluorobiphenyl	497.61	72.3	35 - 120	13.785	13.982	-0.1970	N/A	
2,4,6-Tribromophenol	746.42	96.8	24 - 134	16.807	17.02143	-0.2144	N/A	
p-Terphenyl-d14	497.61	70.5	37 - 120	21.34	21.54257	-0.2026	N/A	
23C0071-02 (Solid)			Lab File ID: NT1003212311.D			Analyzed: 03/21/23 23:35		
2-Fluorophenol	739.88	68.8	27 - 120	6.89	7.067714	-0.1777	N/A	
Phenol-d5	739.88	71.7	29 - 120	8.466	8.638143	-0.1721	N/A	
2-Chlorophenol-d4	739.88	75.7	31 - 120	8.744	8.931857	-0.1879	N/A	
1,2-Dichlorobenzene-d4	493.25	68.3	32 - 120	9.457	9.659143	-0.2021	N/A	
Nitrobenzene-d5	493.25	70.9	30 - 120	10.187	10.389	-0.2020	N/A	
2-Fluorobiphenyl	493.25	78.3	35 - 120	13.785	13.982	-0.1970	N/A	
2,4,6-Tribromophenol	739.88	107	24 - 134	16.8	17.02143	-0.2214	N/A	
p-Terphenyl-d14	493.25	77.2	37 - 120	21.34	21.54257	-0.2026	N/A	
23C0071-03 (Solid)			Lab File ID: NT1003212312.D			Analyzed: 03/22/23 00:13		
2-Fluorophenol	730.93	75.3	27 - 120	6.89	7.067714	-0.1777	N/A	
Phenol-d5	730.93	77.4	29 - 120	8.466	8.638143	-0.1721	N/A	
2-Chlorophenol-d4	730.93	84.0	31 - 120	8.744	8.931857	-0.1879	N/A	
1,2-Dichlorobenzene-d4	487.29	77.4	32 - 120	9.457	9.659143	-0.2021	N/A	
Nitrobenzene-d5	487.29	81.5	30 - 120	10.187	10.389	-0.2020	N/A	
2-Fluorobiphenyl	487.29	85.8	35 - 120	13.785	13.982	-0.1970	N/A	
2,4,6-Tribromophenol	730.93	113	24 - 134	16.8	17.02143	-0.2214	N/A	
p-Terphenyl-d14	487.29	85.5	37 - 120	21.34	21.54257	-0.2026	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8270E

Laboratory: Analytical Resources, LLC
SDG/WO: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLC0451
Instrument: NT10
Calibration: GC00046
Calibration Date: 03/16/2023

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
23C0071-04 (Solid)			Lab File ID: NT1003212313.D			Analyzed: 03/22/23 00:52		
2-Fluorophenol	749.26	66.7	27 - 120	6.89	7.067714	-0.1777	N/A	
Phenol-d5	749.26	68.6	29 - 120	8.466	8.638143	-0.1721	N/A	
2-Chlorophenol-d4	749.26	74.3	31 - 120	8.736	8.931857	-0.1959	N/A	
1,2-Dichlorobenzene-d4	499.51	68.3	32 - 120	9.457	9.659143	-0.2021	N/A	
Nitrobenzene-d5	499.51	70.5	30 - 120	10.187	10.389	-0.2020	N/A	
2-Fluorobiphenyl	499.51	77.1	35 - 120	13.785	13.982	-0.1970	N/A	
2,4,6-Tribromophenol	749.26	109	24 - 134	16.8	17.02143	-0.2214	N/A	
p-Terphenyl-d14	499.51	80.1	37 - 120	21.332	21.54257	-0.2106	N/A	
23C0071-05 (Solid)			Lab File ID: NT1003212314.D			Analyzed: 03/22/23 01:30		
2-Fluorophenol	750.00	76.4	27 - 120	6.89	7.067714	-0.1777	N/A	
Phenol-d5	750.00	76.1	29 - 120	8.466	8.638143	-0.1721	N/A	
2-Chlorophenol-d4	750.00	84.4	31 - 120	8.736	8.931857	-0.1959	N/A	
1,2-Dichlorobenzene-d4	500.00	77.3	32 - 120	9.457	9.659143	-0.2021	N/A	
Nitrobenzene-d5	500.00	79.3	30 - 120	10.187	10.389	-0.2020	N/A	
2-Fluorobiphenyl	500.00	85.9	35 - 120	13.777	13.982	-0.2050	N/A	
2,4,6-Tribromophenol	750.00	117	24 - 134	16.8	17.02143	-0.2214	N/A	
p-Terphenyl-d14	500.00	84.5	37 - 120	21.332	21.54257	-0.2106	N/A	
BLC0109-MS1 (Solid)			Lab File ID: NT1003212315.D			Analyzed: 03/22/23 02:08		
2-Fluorophenol	750.00	68.1	27 - 120	6.89	7.067714	-0.1777	N/A	
Phenol-d5	750.00	69.2	29 - 120	8.466	8.638143	-0.1721	N/A	
2-Chlorophenol-d4	750.00	74.8	31 - 120	8.736	8.931857	-0.1959	N/A	
1,2-Dichlorobenzene-d4	500.00	69.1	32 - 120	9.457	9.659143	-0.2021	N/A	
Nitrobenzene-d5	500.00	71.1	30 - 120	10.187	10.389	-0.2020	N/A	
2-Fluorobiphenyl	500.00	75.4	35 - 120	13.777	13.982	-0.2050	N/A	
2,4,6-Tribromophenol	750.00	103	24 - 134	16.8	17.02143	-0.2214	N/A	
p-Terphenyl-d14	500.00	76.6	37 - 120	21.332	21.54257	-0.2106	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8270E

Laboratory: Analytical Resources, LLC
SDG/WO: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLC0451
Instrument: NT10
Calibration: GC00046
Calibration Date: 03/16/2023

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
BLC0109-MSD1 (Solid)			Lab File ID: NT1003212316.D			Analyzed: 03/22/23 02:46		
2-Fluorophenol	750.00	67.4	27 - 120	6.882	7.067714	-0.1857	N/A	
Phenol-d5	750.00	68.7	29 - 120	8.466	8.638143	-0.1721	N/A	
2-Chlorophenol-d4	750.00	77.1	31 - 120	8.736	8.931857	-0.1959	N/A	
1,2-Dichlorobenzene-d4	500.00	72.9	32 - 120	9.457	9.659143	-0.2021	N/A	
Nitrobenzene-d5	500.00	74.3	30 - 120	10.187	10.389	-0.2020	N/A	
2-Fluorobiphenyl	500.00	79.8	35 - 120	13.777	13.982	-0.2050	N/A	
2,4,6-Tribromophenol	750.00	102	24 - 134	16.8	17.02143	-0.2214	N/A	
p-Terphenyl-d14	500.00	77.8	37 - 120	21.332	21.54257	-0.2106	N/A	
23C0071-06 (Solid)			Lab File ID: NT1003212317.D			Analyzed: 03/22/23 03:25		
2-Fluorophenol	743.98	53.8	27 - 120	6.89	7.067714	-0.1777	N/A	
Phenol-d5	743.98	56.2	29 - 120	8.466	8.638143	-0.1721	N/A	
2-Chlorophenol-d4	743.98	64.3	31 - 120	8.736	8.931857	-0.1959	N/A	
1,2-Dichlorobenzene-d4	495.98	59.4	32 - 120	9.457	9.659143	-0.2021	N/A	
Nitrobenzene-d5	495.98	61.8	30 - 120	10.187	10.389	-0.2020	N/A	
2-Fluorobiphenyl	495.98	67.6	35 - 120	13.777	13.982	-0.2050	N/A	
2,4,6-Tribromophenol	743.98	86.2	24 - 134	16.8	17.02143	-0.2214	N/A	
p-Terphenyl-d14	495.98	67.4	37 - 120	21.34	21.54257	-0.2026	N/A	
SLC0451-CCV1 (Solid)			Lab File ID: NT1003212318.D			Analyzed: 03/22/23 04:03		
2-Fluorophenol	7.5000	100	50 - 150	6.882	7.067714	-0.1857	N/A	
Phenol-d5	7.5000	99.3	50 - 150	8.458	8.638143	-0.1801	N/A	
2-Chlorophenol-d4	7.5000	102	50 - 150	8.736	8.931857	-0.1959	N/A	
1,2-Dichlorobenzene-d4	5.0000	97.0	50 - 150	9.457	9.659143	-0.2021	N/A	
Nitrobenzene-d5	5.0000	94.6	50 - 150	10.187	10.389	-0.2020	N/A	
2-Fluorobiphenyl	5.0000	98.3	50 - 150	13.777	13.982	-0.2050	N/A	
2,4,6-Tribromophenol	7.5000	118	50 - 150	16.8	17.02143	-0.2214	N/A	
p-Terphenyl-d14	5.0000	91.7	50 - 150	21.332	21.54257	-0.2106	N/A	

Analytical Resources, LLC
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLC0228	Instrument:	NT10
		Calibration:	GC00046

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Secondary Cal Check (SLC0228-SCV1)		(Solid)		Lab File ID: NT10031511.D				Analyzed: 03/16/23 02:16	
1,4-Dichlorobenzene-d4	154809	9.301	171542	9.301	90	50 - 200	0.000	+/-0.50	
Naphthalene-d8	570882	11.777	624466	11.777	91	50 - 200	0.000	+/-0.50	
Acenaphthene-d10	303490	15.383	337226	15.382	90	50 - 200	0.001	+/-0.50	
Phenanthrene-d10	533431	18.42	572849	18.419	93	50 - 200	0.001	+/-0.50	
Chrysene-d12	435381	23.458	347068	23.449	125	50 - 200	0.009	+/-0.50	
Di-n-Octylphthalate-d4	660827	24.487	500317	24.479	132	50 - 200	0.008	+/-0.50	
Perylene-d12	494648	26.191	421549	26.182	117	50 - 200	0.009	+/-0.50	
Initial Cal Blank (SLC0228-ICB1)		(Solid)		Lab File ID: NT10031512.D				Analyzed: 03/16/23 02:54	
1,4-Dichlorobenzene-d4	173115	9.301	171542	9.301	101	50 - 200	0.000	+/-0.50	
Naphthalene-d8	625865	11.776	624466	11.777	100	50 - 200	-0.001	+/-0.50	
Acenaphthene-d10	328712	15.382	337226	15.382	97	50 - 200	0.000	+/-0.50	
Phenanthrene-d10	592693	18.419	572849	18.419	103	50 - 200	0.000	+/-0.50	
Chrysene-d12	442208	23.449	347068	23.449	127	50 - 200	0.000	+/-0.50	
Di-n-Octylphthalate-d4	526309	24.479	500317	24.479	105	50 - 200	0.000	+/-0.50	
Perylene-d12	499804	26.182	421549	26.182	119	50 - 200	0.000	+/-0.50	

Analytical Resources, LLC
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLC0451	Instrument:	NT10
		Calibration:	GC00046

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (SLC0451-ICV1)		(Solid)	Lab File ID: NT1003212302.D				Analyzed: 03/21/23 17:46		
1,4-Dichlorobenzene-d4	138414	9.108	138414	9.108	100	50 - 200	0.000	+/-0.50	
Naphthalene-d8	511348	11.587	511348	11.587	100	50 - 200	0.000	+/-0.50	
Acenaphthene-d10	293241	15.185	293241	15.185	100	50 - 200	0.000	+/-0.50	
Phenanthrene-d10	535484	18.206	535484	18.206	100	50 - 200	0.000	+/-0.50	
Chrysene-d12	464733	23.229	464733	23.229	100	50 - 200	0.000	+/-0.50	
Di-n-Octylphthalate-d4	716354	24.266	716354	24.266	100	50 - 200	0.000	+/-0.50	
Perylene-d12	509704	25.83	509704	25.83	100	50 - 200	0.000	+/-0.50	
Low Cal Check (SLC0451-LCV1)		(Solid)	Lab File ID: NT1003212304.D				Analyzed: 03/21/23 19:04		
1,4-Dichlorobenzene-d4	157344	9.108	138414	9.108	114	50 - 200	0.000	+/-0.50	
Naphthalene-d8	560807	11.58	511348	11.587	110	50 - 200	-0.007	+/-0.50	
Acenaphthene-d10	301582	15.17	293241	15.185	103	50 - 200	-0.015	+/-0.50	
Phenanthrene-d10	552854	18.191	535484	18.206	103	50 - 200	-0.015	+/-0.50	
Chrysene-d12	467591	23.222	464733	23.229	101	50 - 200	-0.007	+/-0.50	
Di-n-Octylphthalate-d4	645864	24.267	716354	24.266	90	50 - 200	0.001	+/-0.50	
Perylene-d12	517894	25.831	509704	25.83	102	50 - 200	0.001	+/-0.50	
Blank (BLC0109-BLK1)		(Solid)	Lab File ID: NT1003212306.D				Analyzed: 03/21/23 20:21		
1,4-Dichlorobenzene-d4	179118	9.108	138414	9.108	129	50 - 200	0.000	+/-0.50	
Naphthalene-d8	634321	11.58	511348	11.587	124	50 - 200	-0.007	+/-0.50	
Acenaphthene-d10	348967	15.17	293241	15.185	119	50 - 200	-0.015	+/-0.50	
Phenanthrene-d10	629651	18.191	535484	18.206	118	50 - 200	-0.015	+/-0.50	
Chrysene-d12	512223	23.221	464733	23.229	110	50 - 200	-0.008	+/-0.50	
Di-n-Octylphthalate-d4	765553	24.267	716354	24.266	107	50 - 200	0.001	+/-0.50	
Perylene-d12	538678	25.83	509704	25.83	106	50 - 200	0.000	+/-0.50	
LCS (BLC0109-BS1)		(Solid)	Lab File ID: NT1003212307.D				Analyzed: 03/21/23 21:00		
1,4-Dichlorobenzene-d4	201241	9.108	138414	9.108	145	50 - 200	0.000	+/-0.50	
Naphthalene-d8	735413	11.58	511348	11.587	144	50 - 200	-0.007	+/-0.50	
Acenaphthene-d10	417930	15.178	293241	15.185	143	50 - 200	-0.007	+/-0.50	
Phenanthrene-d10	759275	18.191	535484	18.206	142	50 - 200	-0.015	+/-0.50	
Chrysene-d12	632743	23.221	464733	23.229	136	50 - 200	-0.008	+/-0.50	
Di-n-Octylphthalate-d4	1033131	24.266	716354	24.266	144	50 - 200	0.000	+/-0.50	
Perylene-d12	679654	25.83	509704	25.83	133	50 - 200	0.000	+/-0.50	

Analytical Resources, LLC
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLC0451	Instrument:	NT10
		Calibration:	GC00046

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
LCS Dup (BLC0109-BSD1)		(Solid)		Lab File ID: NT1003212308.D				Analyzed: 03/21/23 21:39	
1,4-Dichlorobenzene-d4	181232	9.1	138414	9.108	131	50 - 200	-0.008	+/-0.50	
Naphthalene-d8	668127	11.58	511348	11.587	131	50 - 200	-0.007	+/-0.50	
Acenaphthene-d10	381259	15.178	293241	15.185	130	50 - 200	-0.007	+/-0.50	
Phenanthrene-d10	687593	18.199	535484	18.206	128	50 - 200	-0.007	+/-0.50	
Chrysene-d12	576445	23.237	464733	23.229	124	50 - 200	0.008	+/-0.50	
Di-n-Octylphthalate-d4	932488	24.274	716354	24.266	130	50 - 200	0.008	+/-0.50	
Perylene-d12	607691	25.846	509704	25.83	119	50 - 200	0.016	+/-0.50	
Reference (BLC0109-SRM1)		(Solid)		Lab File ID: NT1003212309.D				Analyzed: 03/21/23 22:18	
1,4-Dichlorobenzene-d4	182595	9.1	138414	9.108	132	50 - 200	-0.008	+/-0.50	
Naphthalene-d8	656870	11.58	511348	11.587	128	50 - 200	-0.007	+/-0.50	
Acenaphthene-d10	370957	15.17	293241	15.185	127	50 - 200	-0.015	+/-0.50	
Phenanthrene-d10	680578	18.191	535484	18.206	127	50 - 200	-0.015	+/-0.50	
Chrysene-d12	557190	23.229	464733	23.229	120	50 - 200	0.000	+/-0.50	
Di-n-Octylphthalate-d4	962534	24.267	716354	24.266	134	50 - 200	0.001	+/-0.50	
Perylene-d12	625232	25.838	509704	25.83	123	50 - 200	0.008	+/-0.50	
LDW23-SS1000 (23C0071-01)		(Solid)		Lab File ID: NT1003212310.D				Analyzed: 03/21/23 22:56	
1,4-Dichlorobenzene-d4	204088	9.1	138414	9.108	147	50 - 200	-0.008	+/-0.50	
Naphthalene-d8	728355	11.572	511348	11.587	142	50 - 200	-0.015	+/-0.50	
Acenaphthene-d10	410982	15.178	293241	15.185	140	50 - 200	-0.007	+/-0.50	
Phenanthrene-d10	775737	18.199	535484	18.206	145	50 - 200	-0.007	+/-0.50	
Chrysene-d12	705986	23.237	464733	23.229	152	50 - 200	0.008	+/-0.50	
Di-n-Octylphthalate-d4	1179850	24.282	716354	24.266	165	50 - 200	0.016	+/-0.50	
Perylene-d12	840603	25.861	509704	25.83	165	50 - 200	0.031	+/-0.50	
LDW23-SS1037 (23C0071-02)		(Solid)		Lab File ID: NT1003212311.D				Analyzed: 03/21/23 23:35	
1,4-Dichlorobenzene-d4	210204	9.1	138414	9.108	152	50 - 200	-0.008	+/-0.50	
Naphthalene-d8	759571	11.572	511348	11.587	149	50 - 200	-0.015	+/-0.50	
Acenaphthene-d10	416429	15.17	293241	15.185	142	50 - 200	-0.015	+/-0.50	
Phenanthrene-d10	775606	18.198	535484	18.206	145	50 - 200	-0.008	+/-0.50	
Chrysene-d12	698045	23.237	464733	23.229	150	50 - 200	0.008	+/-0.50	
Di-n-Octylphthalate-d4	1160658	24.282	716354	24.266	162	50 - 200	0.016	+/-0.50	
Perylene-d12	807272	25.861	509704	25.83	158	50 - 200	0.031	+/-0.50	

Analytical Resources, LLC
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLC0451	Instrument:	NT10
		Calibration:	GC00046

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
LDW23-SS1036 (23C0071-03)		(Solid)		Lab File ID: NT1003212312.D				Analyzed: 03/22/23 00:13	
1,4-Dichlorobenzene-d4	208826	9.1	138414	9.108	151	50 - 200	-0.008	+/-0.50	
Naphthalene-d8	746487	11.572	511348	11.587	146	50 - 200	-0.015	+/-0.50	
Acenaphthene-d10	420566	15.17	293241	15.185	143	50 - 200	-0.015	+/-0.50	
Phenanthrene-d10	787020	18.191	535484	18.206	147	50 - 200	-0.015	+/-0.50	
Chrysene-d12	701591	23.237	464733	23.229	151	50 - 200	0.008	+/-0.50	
Di-n-Octylphthalate-d4	1201053	24.282	716354	24.266	168	50 - 200	0.016	+/-0.50	
Perylene-d12	823087	25.861	509704	25.83	161	50 - 200	0.031	+/-0.50	
LDW23-SS1044 (23C0071-04)		(Solid)		Lab File ID: NT1003212313.D				Analyzed: 03/22/23 00:52	
1,4-Dichlorobenzene-d4	199666	9.1	138414	9.108	144	50 - 200	-0.008	+/-0.50	
Naphthalene-d8	726636	11.572	511348	11.587	142	50 - 200	-0.015	+/-0.50	
Acenaphthene-d10	399032	15.17	293241	15.185	136	50 - 200	-0.015	+/-0.50	
Phenanthrene-d10	747415	18.191	535484	18.206	140	50 - 200	-0.015	+/-0.50	
Chrysene-d12	679791	23.237	464733	23.229	146	50 - 200	0.008	+/-0.50	
Di-n-Octylphthalate-d4	1142459	24.282	716354	24.266	159	50 - 200	0.016	+/-0.50	
Perylene-d12	798080	25.861	509704	25.83	157	50 - 200	0.031	+/-0.50	
LDW23-SS1048 (23C0071-05)		(Solid)		Lab File ID: NT1003212314.D				Analyzed: 03/22/23 01:30	
1,4-Dichlorobenzene-d4	195253	9.1	138414	9.108	141	50 - 200	-0.008	+/-0.50	
Naphthalene-d8	696525	11.572	511348	11.587	136	50 - 200	-0.015	+/-0.50	
Acenaphthene-d10	380877	15.17	293241	15.185	130	50 - 200	-0.015	+/-0.50	
Phenanthrene-d10	712663	18.191	535484	18.206	133	50 - 200	-0.015	+/-0.50	
Chrysene-d12	641988	23.229	464733	23.229	138	50 - 200	0.000	+/-0.50	
Di-n-Octylphthalate-d4	1083812	24.274	716354	24.266	151	50 - 200	0.008	+/-0.50	
Perylene-d12	763139	25.846	509704	25.83	150	50 - 200	0.016	+/-0.50	
Matrix Spike (BLC0109-MS1)		(Solid)		Lab File ID: NT1003212315.D				Analyzed: 03/22/23 02:08	
1,4-Dichlorobenzene-d4	193736	9.1	138414	9.108	140	50 - 200	-0.008	+/-0.50	
Naphthalene-d8	709454	11.572	511348	11.587	139	50 - 200	-0.015	+/-0.50	
Acenaphthene-d10	400302	15.17	293241	15.185	137	50 - 200	-0.015	+/-0.50	
Phenanthrene-d10	755922	18.191	535484	18.206	141	50 - 200	-0.015	+/-0.50	
Chrysene-d12	684055	23.237	464733	23.229	147	50 - 200	0.008	+/-0.50	
Di-n-Octylphthalate-d4	1117093	24.274	716354	24.266	156	50 - 200	0.008	+/-0.50	
Perylene-d12	786308	25.854	509704	25.83	154	50 - 200	0.024	+/-0.50	

Analytical Resources, LLC
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLC0451	Instrument:	NT10
		Calibration:	GC00046

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Matrix Spike Dup (BLC0109-MSD1)		(Solid)		Lab File ID: NT1003212316.D				Analyzed: 03/22/23 02:46	
1,4-Dichlorobenzene-d4	181241	9.092	138414	9.108	131	50 - 200	-0.016	+/-0.50	
Naphthalene-d8	656122	11.572	511348	11.587	128	50 - 200	-0.015	+/-0.50	
Acenaphthene-d10	371192	15.17	293241	15.185	127	50 - 200	-0.015	+/-0.50	
Phenanthrene-d10	711118	18.191	535484	18.206	133	50 - 200	-0.015	+/-0.50	
Chrysene-d12	637480	23.237	464733	23.229	137	50 - 200	0.008	+/-0.50	
Di-n-Octylphthalate-d4	1045903	24.274	716354	24.266	146	50 - 200	0.008	+/-0.50	
Perylene-d12	729308	25.854	509704	25.83	143	50 - 200	0.024	+/-0.50	
LDW23-SS1054 (23C0071-06)		(Solid)		Lab File ID: NT1003212317.D				Analyzed: 03/22/23 03:25	
1,4-Dichlorobenzene-d4	190288	9.092	138414	9.108	137	50 - 200	-0.016	+/-0.50	
Naphthalene-d8	674784	11.572	511348	11.587	132	50 - 200	-0.015	+/-0.50	
Acenaphthene-d10	384071	15.17	293241	15.185	131	50 - 200	-0.015	+/-0.50	
Phenanthrene-d10	720469	18.199	535484	18.206	135	50 - 200	-0.007	+/-0.50	
Chrysene-d12	635377	23.237	464733	23.229	137	50 - 200	0.008	+/-0.50	
Di-n-Octylphthalate-d4	1034441	24.274	716354	24.266	144	50 - 200	0.008	+/-0.50	
Perylene-d12	722414	25.854	509704	25.83	142	50 - 200	0.024	+/-0.50	
Calibration Check (SLC0451-CCV1)		(Solid)		Lab File ID: NT1003212318.D				Analyzed: 03/22/23 04:03	
1,4-Dichlorobenzene-d4	145932	9.1	138414	9.108	105	50 - 200	-0.008	+/-0.50	
Naphthalene-d8	526548	11.572	511348	11.587	103	50 - 200	-0.015	+/-0.50	
Acenaphthene-d10	296071	15.17	293241	15.185	101	50 - 200	-0.015	+/-0.50	
Phenanthrene-d10	552984	18.191	535484	18.206	103	50 - 200	-0.015	+/-0.50	
Chrysene-d12	507311	23.229	464733	23.229	109	50 - 200	0.000	+/-0.50	
Di-n-Octylphthalate-d4	833237	24.274	716354	24.266	116	50 - 200	0.008	+/-0.50	
Perylene-d12	596603	25.846	509704	25.83	117	50 - 200	0.016	+/-0.50	

HOLDING TIME SUMMARY

Analysis: EPA 8270E

Laboratory: Analytical Resources, LLC SDG: 23C0071

Client: Anchor QEA, LLC Project: AOC5 MR Phase 1

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
LDW23-SS1000 23C0071-01	03/02/23 09:33	03/02/23 16:34	03/07/23 10:21	5	365	03/21/23 22:56	15	40	
LDW23-SS1037 23C0071-02	03/02/23 09:56	03/02/23 16:34	03/07/23 10:21	5	365	03/21/23 23:35	15	40	
LDW23-SS1036 23C0071-03	03/02/23 10:10	03/02/23 16:34	03/07/23 10:21	5	365	03/22/23 00:13	15	40	
LDW23-SS1044 23C0071-04	03/02/23 10:22	03/02/23 16:34	03/07/23 10:21	4	365	03/22/23 00:52	15	40	
LDW23-SS1048 23C0071-05	03/02/23 10:32	03/02/23 16:34	03/07/23 10:21	4	365	03/22/23 01:30	15	40	
LDW23-SS1054 23C0071-06	03/02/23 10:41	03/02/23 16:34	03/07/23 10:21	4	365	03/22/23 03:25	15	40	
Matrix Spike BLC0109-MS1	03/02/23 10:32	03/02/23 16:34	03/07/23 10:21	4	365	03/22/23 02:08	15	40	
Matrix Spike Dup BLC0109-MSD1	03/02/23 10:32	03/02/23 16:34	03/07/23 10:21	4	365	03/22/23 02:46	15	40	

* Indicates hold time exceedance.

METHOD DETECTION AND REPORTING LIMITS

EPA 8270E

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Matrix: Solid
Instrument: NT10

Analyte	MDL	RL	Units
Phenol	4.4	20.0	ug/kg
4-Methylphenol	7.4	20.0	ug/kg
Naphthalene	4.2	20.0	ug/kg
2-Methylnaphthalene	4.5	20.0	ug/kg
Acenaphthylene	6.2	20.0	ug/kg
Dimethylphthalate	4.4	20.0	ug/kg
Acenaphthene	5.2	20.0	ug/kg
Dibenzofuran	14.1	20.0	ug/kg
Fluorene	14.6	20.0	ug/kg
Phenanthrene	8.7	20.0	ug/kg
Anthracene	7.2	20.0	ug/kg
Fluoranthene	6.1	20.0	ug/kg
Pyrene	5.7	20.0	ug/kg
Butylbenzylphthalate	9.4	20.0	ug/kg
Benzo(a)anthracene	6.0	20.0	ug/kg
Chrysene	6.1	20.0	ug/kg
bis(2-Ethylhexyl)phthalate	5.5	50.0	ug/kg
Benzofluoranthenes, Total	10.0	40.0	ug/kg
Benzo(a)pyrene	4.2	20.0	ug/kg
Indeno(1,2,3-cd)pyrene	14.7	20.0	ug/kg
Dibenzo(a,h)anthracene	17.2	20.0	ug/kg
Benzo(g,h,i)perylene	13.6	20.0	ug/kg

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B001941

Printed: 9/25/2013 1:45:31PM

Description:	SVOC 2,4-Dinitrophenol	Expires:	31-Dec-29
Standard Type:	Calibration Stan	Prepared:	25-Sep-13
Solvent:	NA	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	25-Sep-13 13:45 by JZ
Vendor:	SIGMA	Lot #:	65H5021
Vendor Catalog #:			

Comments

Neat, Purity @ 90-95%. (ARI#: 0466)

Analyte	CAS Number	Concentration	Units
2,4-Dinitrophenol	51-28-5	1000000	ug/mL

B001941
SVOA 2,4-Dinitrophenol
Expires 12/31/2029
Prepared By Jianqing Zhou 9/25/2013

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer:_____

Chemical: 2,4-Dinitrophenol

Manufacturer: Sigma

Product #: _____

Lot #: bFH502I

Purity: 90 w %

Analyst: [signature]

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B001945

Printed: 9/25/2013 3:23:22PM

Description:	SVOC Benzoic Acid	Expires:	31-Dec-29
Standard Type:	Calibration Stan	Prepared:	31-Dec-12
Solvent:	NA	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	25-Sep-13 15:23 by JZ
Vendor:	ACROS Organics	Lot #:	A0224339
Vendor Catalog #:			

Comments

Neat, Purity @ 98%.

Analyte	CAS Number	Concentration	Units
Benzoic acid	65-85-0	1000000	ug/mL

B001945
SVOC Benzoic Acid
Expires 12/31/2029
Prepared By Jianqing Zhou 12/31/2012

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer:_____

Chemical: Benzoic Acid

Manufacturer: Acros Organics

Product #: _____

Lot #: A0214339

Purity: 98%

Analyst: [signature]

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B001948

Printed: 9/25/2013 3:37:51PM

Description:	SVOC 4,6-Dinitro-2-Methylphenol	Expires:	31-Dec-29
Standard Type:	Calibration Stan	Prepared:	25-Sep-13
Solvent:	NA	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	25-Sep-13 15:37 by JZ
Vendor:	Chem Service	Lot #:	179-31A
Vendor Catalog #:			

Comments

Neat, Purity @ 99%. (ARI#: 009A)

Analyte	CAS Number	Concentration	Units
4,6-Dinitro-2-methylphenol	534-52-1	1000000	ug/mL

B001948
SVOA 4,6-Dinitro-2-Methylphenol
Expires 12/31/2029
Prepared By Jianqing Zhou 9/25/2013

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer: _____

Chemical: 4,6-Dinitro-2-Methylphenol

Manufacturer: Chem Service

Product #: _____

Lot #: 179-31A

Purity: 99%

Analyst: KB

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B002054

Printed: 10/4/2013 6:32:21PM

Description:	SVOA 1-Methylnaphthalene	Expires:	02-Apr-14
Standard Type:	Analyte Spike	Prepared:	13-Dec-12
Solvent:	NA	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	04-Oct-13 18:32 by JZ
Vendor:	Chem Service	Lot #:	62-5B
Vendor Catalog #:			

Comments

Neat, Purity @ 99%

Analyte	CAS Number	Concentration	Units
1-Methylnaphthalene	90-12-0	1000000	ug/mL

B002054
SVOA 1-Methylnaphthalene
Solvent / Lot: NA
Prep: 12/13/2012 by JZ
Exp: 12/31/2029
Location:

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer:_____

Chemical: 1-Methyl naphthalene

Manufacturer: Chem Service

Product #: 0787

Lot #: 67-53

Purity: 99%

Analyst: AZ

H000691

Data File: \\target\share\chem2\fid4a.i\20230317.b\423C1703.D

Page 1

Date : 17-MAR-2023 10:46

Client ID:

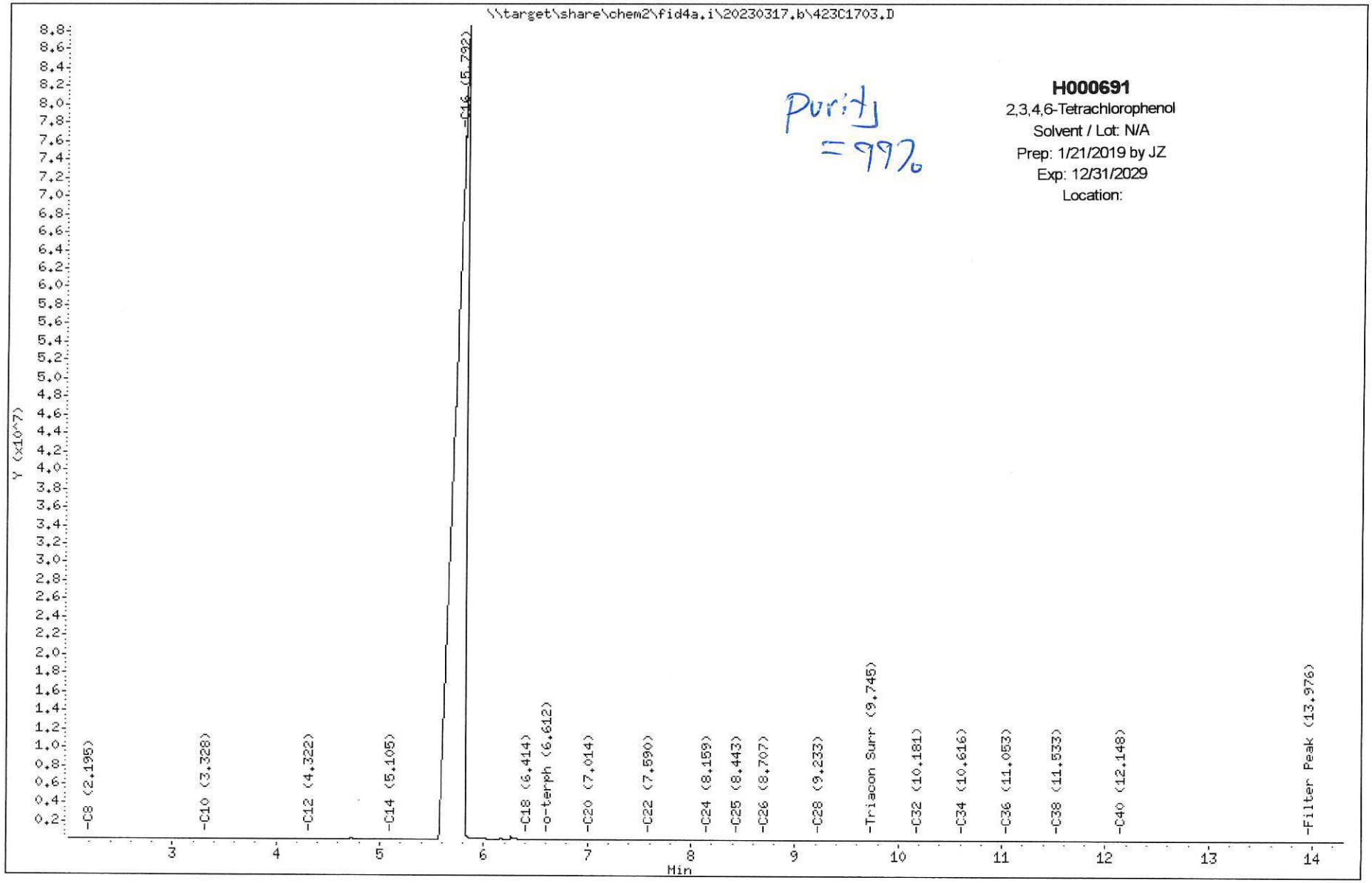
Instrument: fid4a.i

Sample Info: K007226

Operator: AA

Column phase: RTX-1

Column diameter: 0.25



Purity = 99%

H000691
2,3,4,6-Tetrachlorophenol
Solvent / Lot: N/A
Prep: 1/21/2019 by JZ
Exp: 12/31/2029
Location:

ARI Labs, Inc.

Data file : \\target\share\chem2\fid4a.i\20230317.b\423C1703.D
Lab Smp Id: K007226
Inj Date : 17-MAR-2023 10:46
Operator : AA Inst ID: fid4a.i
Smp Info : K007226
Misc Info :
Comment   :
Method   : \\target\share\chem2\fid4a.i\20230317.b\FID4TPH.m
Meth Date : 17-Mar-2023 16:58 alfonso Quant Type: AREA%
Cal Date : 18-AUG-2022 11:51 Cal File: 422H1803.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: Falcon+ Compound Sublist: tph.sub
Target Version: 4.14
Processing Host: ALFONSO-201901

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
2.043	81395	55677	0.684	0.012	1 Toluene
2.074	68503	39991	0.584	0.010	
2.104	85451	37158	0.435	0.012	
2.146	59381	25207	0.424	0.008	
2.181	11414	22862	2.003	0.001	
2.195	34939	23199	0.664	0.005	2 C8
2.218	8679	21808	2.513	0.001	
2.224	21070	21832	1.036	0.003	
2.243	45086	20191	0.448	0.006	
2.286	3130	15677	5.009	0.000	
2.291	12615	15880	1.259	0.001	
2.313	20979	15888	0.757	0.003	
2.333	7621	15373	2.017	0.001	
2.348	31874	17112	0.537	0.004	
2.373	4619	13267	2.872	0.000	
2.380	12003	13446	1.120	0.001	
2.393	10327	13347	1.292	0.001	
2.408	9963	12697	1.274	0.001	
2.446	24366	11882	0.488	0.003	
2.498	24898	10214	0.410	0.003	
2.557	1592	6395	4.017	0.000	
2.570	4427	6384	1.442	0.000	
2.583	4275	6215	1.454	0.000	
2.595	1208	6068	5.024	0.000	
2.602	3076	6230	2.025	0.000	
2.607	1560	6270	4.019	0.000	
2.631	17195	8933	0.520	0.002	
2.654	17386	7637	0.439	0.002	
2.703	4531	5468	1.207	0.000	
2.717	9156	5741	0.627	0.001	
2.740	3955	5045	1.275	0.000	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
2.768	1029	4134	4.017	0.000	
2.771	830	4189	5.050	0.000	
2.778	1924	4438	2.307	0.000	
2.784	5498	4564	0.830	0.000	
2.846	25970	8400	0.323	0.003	
2.880	939	3165	3.370	0.000	
2.884	1885	3183	1.688	0.000	
2.901	4805	3504	0.729	0.000	
2.938	581	1990	3.423	0.000	
2.944	1450	2016	1.390	0.000	
2.955	449	1816	4.043	0.000	
2.967	1234	2009	1.629	0.000	
2.982	712	2087	2.931	0.000	
2.988	1000	2338	2.337	0.000	
3.001	3475	3541	1.019	0.000	
3.018	3528	3705	1.050	0.000	
3.033	983	2521	2.564	0.000	
3.038	1297	2686	2.070	0.000	
3.044	2547	2541	0.997	0.000	
3.069	389	1330	3.418	0.000	
3.078	728	1545	2.123	0.000	
3.085	1244	1637	1.316	0.000	
3.098	1115	1624	1.457	0.000	
3.108	926	1475	1.593	0.000	
3.119	239	1202	5.036	0.000	
3.125	540	1251	2.315	0.000	
3.133	409	1219	2.978	0.000	
3.144	2600	1886	0.725	0.000	
3.165	620	1604	2.588	0.000	
3.173	554	1647	2.972	0.000	
3.192	2423	2273	0.938	0.000	
3.197	582	2418	4.158	0.000	
3.204	1161	2723	2.346	0.000	
3.208	825	2777	3.364	0.000	
3.228	4472	3391	0.758	0.000	
3.246	1586	2676	1.688	0.000	
3.279	1194	2070	1.734	0.000	
3.293	854	1951	2.285	0.000	
3.298	595	2029	3.408	0.000	
3.315	2640	2597	0.984	0.000	
3.320	1015	2542	2.504	0.000	
3.328	1549	2593	1.674	0.000	3 C10
3.338	1314	2533	1.928	0.000	
3.350	523	2159	4.130	0.000	
3.358	1776	2105	1.185	0.000	
3.371	356	1797	5.043	0.000	
3.378	914	1880	2.057	0.000	
3.383	380	1927	5.068	0.000	
3.387	595	2023	3.399	0.000	
3.395	1390	2270	1.633	0.000	
3.405	1490	1994	1.338	0.000	
3.423	690	1601	2.321	0.000	
3.435	821	1554	1.894	0.000	
3.441	387	1583	4.087	0.000	
3.444	401	1625	4.051	0.000	
3.448	403	1636	4.060	0.000	
3.455	1216	1700	1.398	0.000	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.478	235	1185	5.047	0.000	
3.482	412	1229	2.986	0.000	
3.488	695	1177	1.694	0.000	
3.501	239	969	4.063	0.000	
3.509	914	1149	1.258	0.000	
3.520	1078	1069	0.992	0.000	
3.540	301	927	3.079	0.000	
3.556	406	849	2.089	0.000	
3.567	370	873	2.359	0.000	
3.572	178	939	5.270	0.000	
3.578	591	1171	1.981	0.000	
3.591	869	1353	1.556	0.000	
3.596	741	1352	1.826	0.000	
3.606	471	1401	2.976	0.000	
3.613	548	1411	2.577	0.000	
3.618	433	1521	3.511	0.000	
3.625	710	1635	2.303	0.000	
3.630	910	1667	1.832	0.000	
3.652	661	1562	2.362	0.000	
3.670	462	1214	2.627	0.000	
3.686	1036	1453	1.403	0.000	
3.690	829	1374	1.658	0.000	
3.702	531	1191	2.241	0.000	
3.712	452	1355	3.001	0.000	
3.716	820	1423	1.736	0.000	
3.736	2685	2093	0.780	0.000	
3.752	689	2030	2.946	0.000	
3.760	4109	2349	0.572	0.000	
3.805	3183	2036	0.640	0.000	
3.823	496	1686	3.401	0.000	
3.835	1641	2314	1.410	0.000	
3.859	9243	4616	0.499	0.001	
3.897	851	1745	2.051	0.000	
3.904	503	1721	3.419	0.000	
3.927	3866	3293	0.852	0.000	
3.941	5520	3558	0.645	0.000	
3.980	573	1715	2.991	0.000	
3.992	1027	1794	1.748	0.000	
3.995	1494	1860	1.245	0.000	
4.010	887	1639	1.847	0.000	
4.021	663	1724	2.602	0.000	
4.026	1380	1776	1.287	0.000	
4.045	306	1546	5.059	0.000	
4.053	1001	1758	1.757	0.000	
4.061	1137	1804	1.586	0.000	
4.072	779	1773	2.275	0.000	
4.080	989	1896	1.917	0.000	
4.087	561	1905	3.396	0.000	
4.098	1956	2156	1.103	0.000	
4.106	1168	2044	1.750	0.000	
4.127	1049	1627	1.551	0.000	
4.142	587	1545	2.633	0.000	
4.148	1155	1572	1.361	0.000	
4.173	3682	2398	0.651	0.000	
4.189	1023	1738	1.700	0.000	
4.204	549	1627	2.961	0.000	
4.213	628	1658	2.641	0.000	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.221	1039	1830	1.761	0.000	
4.227	447	1814	4.058	0.000	
4.248	2703	2638	0.976	0.000	
4.256	1387	2945	2.123	0.000	
4.260	743	2988	4.022	0.000	
4.265	912	3081	3.378	0.000	
4.268	779	3140	4.031	0.000	
4.275	1736	3217	1.853	0.000	
4.289	2688	3495	1.300	0.000	
4.295	3466	3448	0.995	0.000	
4.322	1054	2680	2.543	0.000	4 C12
4.330	1686	2627	1.558	0.000	
4.358	1066	1974	1.852	0.000	
4.378	434	1758	4.054	0.000	
4.384	1324	1879	1.419	0.000	
4.403	860	1608	1.869	0.000	
4.414	457	1567	3.431	0.000	
4.421	1117	1675	1.499	0.000	
4.433	910	1538	1.690	0.000	
4.439	865	1534	1.774	0.000	
4.449	764	1302	1.705	0.000	
4.471	433	1123	2.593	0.000	
4.476	734	1135	1.546	0.000	
4.490	385	1005	2.610	0.000	
4.498	555	1186	2.137	0.000	
4.502	695	1166	1.677	0.000	
4.518	587	949	1.618	0.000	
4.526	316	925	2.924	0.000	
4.533	560	989	1.765	0.000	
4.543	469	1001	2.135	0.000	
4.548	222	916	4.130	0.000	
4.553	188	980	5.207	0.000	
4.558	255	1038	4.076	0.000	
4.568	652	1157	1.775	0.000	
4.573	338	1151	3.409	0.000	
4.580	487	1283	2.636	0.000	
4.596	3801	1950	0.513	0.000	
4.631	531	1429	2.692	0.000	
4.663	4548	3737	0.822	0.000	
4.667	2815	3822	1.358	0.000	
4.679	2199	3760	1.710	0.000	
4.688	1068	3585	3.356	0.000	
4.694	2166	3742	1.727	0.000	
4.723	372603	172476	0.463	0.055	
4.894	47034	21828	0.464	0.006	
4.956	80510	28154	0.350	0.011	
4.999	54273	16950	0.312	0.008	
5.068	1137	5713	5.027	0.000	
5.072	8415	5792	0.688	0.001	
5.105	4203	4316	1.027	0.000	5 C14
5.146	660	2685	4.070	0.000	
5.153	2524	2649	1.050	0.000	
5.170	1076	2437	2.265	0.000	
5.174	2371	2438	1.028	0.000	
5.201	1013	2011	1.986	0.000	
5.210	2064	2332	1.130	0.000	
5.224	1083	2304	2.127	0.000	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.228	2027	2354	1.162	0.000	
5.276	4673	2682	0.574	0.000	
5.322	195	844	4.328	0.000	
5.331	977	1203	1.231	0.000	
5.356	490	993	2.027	0.000	
5.361	814	1044	1.283	0.000	
5.382	115	387	3.351	0.000	
5.399	619	960	1.551	0.000	
5.406	402	1035	2.576	0.000	
5.410	378	1122	2.968	0.000	
5.423	1663	1555	0.935	0.000	
5.452	5951	5020	0.844	0.000	
5.501	290	797	2.753	0.000	
5.523	2317	2472	1.067	0.000	
5.538	5946	6823	1.147	0.000	
5.792	501855376	76456669	0.152	74.449	6 C16
5.807	79757019	82319946	1.032	11.775	
5.823	77929961	88539160	1.136	11.505	
5.962	75333	84828	1.126	0.011	
5.986	474748	124326	0.262	0.070	
6.070	17103	57180	3.343	0.002	
6.074	120761	57565	0.477	0.017	
6.113	90233	47140	0.522	0.013	
6.165	407438	218439	0.536	0.060	
6.263	944101	374166	0.396	0.139	
6.414	114839	39498	0.344	0.016	7 C18
6.464	53190	31177	0.586	0.007	
6.523	31509	25870	0.821	0.004	
6.551	4785	23963	5.008	0.000	
6.559	51194	25409	0.496	0.007	
6.590	21354	21666	1.015	0.003	
6.612	35061	21127	0.603	0.005	$ 8 o-terph
6.638	17712	19934	1.125	0.002	
6.672	22159	19651	0.887	0.003	
6.683	26846	19268	0.718	0.003	
6.708	5413	18142	3.351	0.000	
6.713	24941	18247	0.732	0.003	
6.747	50657	18478	0.365	0.007	
6.795	23973	17444	0.728	0.003	
6.814	28457	17895	0.629	0.004	
6.837	10746	15445	1.437	0.001	
6.871	29974	21406	0.714	0.004	
6.874	4287	21471	5.009	0.000	
6.882	20520	21675	1.056	0.003	
6.944	32864	17445	0.531	0.004	
6.978	9138	15347	1.679	0.001	
7.014	4130	13830	3.348	0.000	9 C20
7.025	12567	14083	1.121	0.001	
7.038	4952	14274	2.882	0.000	
7.044	6508	14578	2.240	0.000	
7.050	25344	14736	0.581	0.003	
7.099	5531	12365	2.236	0.000	
7.108	16440	12371	0.752	0.002	
7.129	9415	11275	1.198	0.001	
7.175	3589	10327	2.878	0.000	
7.182	7285	10474	1.438	0.001	
7.212	11252	10002	0.889	0.001	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.227	5193	9506	1.830	0.000	
7.237	5172	9476	1.832	0.000	
7.247	4652	9357	2.011	0.000	
7.254	3258	9369	2.875	0.000	
7.259	7003	9455	1.350	0.001	
7.272	5540	9252	1.670	0.000	
7.283	4511	9087	2.014	0.000	
7.296	5828	9031	1.550	0.000	
7.308	4850	8866	1.828	0.000	
7.318	3111	9014	2.897	0.000	
7.324	3191	9168	2.873	0.000	
7.328	2775	9325	3.360	0.000	
7.339	6190	9713	1.569	0.000	
7.344	2920	9761	3.343	0.000	
7.350	17091	9874	0.578	0.002	
7.379	7217	8616	1.194	0.001	
7.395	5430	8408	1.548	0.000	
7.404	2492	8342	3.348	0.000	
7.409	1666	8354	5.014	0.000	
7.415	2955	8500	2.877	0.000	
7.423	3887	8782	2.259	0.000	
7.465	28160	14253	0.506	0.004	
7.471	6466	14499	2.242	0.000	
7.480	6649	15111	2.273	0.000	
7.484	26595	15197	0.571	0.003	
7.514	13964	13621	0.975	0.002	
7.539	8118	12614	1.554	0.001	
7.553	10540	12495	1.185	0.001	
7.584	2820	11307	4.010	0.000	
7.590	4522	11429	2.527	0.000	10 C22
7.620	16634	10435	0.627	0.002	
7.653	6793	9783	1.440	0.001	
7.663	8606	9666	1.123	0.001	
7.675	2827	9464	3.347	0.000	
7.683	9373	9620	1.026	0.001	
7.699	3657	9205	2.517	0.000	
7.708	5071	9290	1.832	0.000	
7.713	10483	9274	0.885	0.001	
7.735	10686	9257	0.866	0.001	
7.752	4732	8664	1.831	0.000	
7.765	5624	8765	1.558	0.000	
7.773	5614	8686	1.547	0.000	
7.784	3375	8506	2.520	0.000	
7.793	2118	8517	4.021	0.000	
7.799	10086	8544	0.847	0.001	
7.817	7761	8325	1.073	0.001	
7.833	2415	8088	3.350	0.000	
7.838	2838	8160	2.875	0.000	
7.844	3649	8173	2.240	0.000	
7.858	2009	8069	4.017	0.000	
7.864	4482	8197	1.829	0.000	
7.871	3688	8223	2.230	0.000	
7.879	4875	8269	1.696	0.000	
7.889	2009	8061	4.013	0.000	
7.897	4080	8308	2.036	0.000	
7.916	17828	10103	0.567	0.002	
7.935	4052	9086	2.242	0.000	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.940	2229	8948	4.015	0.000	
7.945	5765	8973	1.556	0.000	
7.954	6458	8765	1.357	0.000	
7.976	2099	8428	4.016	0.000	
7.984	10213	8807	0.862	0.001	
7.999	4897	8282	1.691	0.000	
8.013	8782	8112	0.924	0.001	
8.028	5860	7858	1.341	0.000	
8.040	3929	7871	2.003	0.000	
8.054	9161	8146	0.889	0.001	
8.067	2701	7766	2.876	0.000	
8.074	3069	7702	2.510	0.000	
8.081	2694	7742	2.874	0.000	
8.088	2705	7793	2.881	0.000	
8.095	5842	7832	1.341	0.000	
8.104	5419	7841	1.447	0.000	
8.119	5740	7735	1.348	0.000	
8.134	4986	7768	1.558	0.000	
8.141	5893	8009	1.359	0.000	
8.159	9098	8027	0.882	0.001	11 C24
8.174	3156	7971	2.526	0.000	
8.185	2376	7967	3.353	0.000	
8.190	4739	7937	1.675	0.000	
8.202	5181	8028	1.549	0.000	
8.212	1994	8027	4.025	0.000	
8.223	6137	8270	1.348	0.000	
8.236	6864	8171	1.190	0.001	
8.248	2383	7986	3.351	0.000	
8.253	2405	8059	3.351	0.000	
8.259	5294	8207	1.550	0.000	
8.268	2866	8235	2.874	0.000	
8.280	6583	8312	1.263	0.000	
8.289	4538	8296	1.828	0.000	
8.295	2060	8300	4.029	0.000	
8.300	2063	8291	4.020	0.000	
8.313	7062	8400	1.189	0.001	
8.318	1667	8375	5.023	0.000	
8.332	11362	9100	0.801	0.001	
8.343	4357	8741	2.006	0.000	
8.358	1267	8458	6.676	0.000	
8.363	2991	8621	2.882	0.000	
8.371	3980	8983	2.257	0.000	
8.379	6330	9083	1.435	0.000	
8.385	3111	8963	2.881	0.000	
8.393	6706	9050	1.349	0.000	
8.404	4903	8943	1.824	0.000	
8.417	8437	8972	1.063	0.001	
8.438	7166	9103	1.270	0.001	
8.443	3211	9227	2.873	0.000	12 C25
8.450	3688	9295	2.521	0.000	
8.455	2313	9276	4.010	0.000	
8.475	30054	13714	0.456	0.004	
8.504	5760	9733	1.690	0.000	
8.519	2799	9376	3.350	0.000	
8.529	4766	9710	2.037	0.000	
8.537	4875	9815	2.013	0.000	
8.543	8411	9973	1.186	0.001	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
8.555	2969	9916	3.340	0.000	
8.560	3974	9987	2.513	0.000	
8.568	2483	9997	4.026	0.000	
8.572	5007	10043	2.006	0.000	
8.591	14074	10725	0.762	0.002	
8.602	2648	10665	4.028	0.000	
8.606	2159	10862	5.032	0.000	
8.609	2183	10952	5.017	0.000	
8.633	7361	10561	1.435	0.001	
8.647	6774	10495	1.549	0.001	
8.658	2596	10420	4.014	0.000	
8.663	4723	10573	2.239	0.000	
8.669	3156	10589	3.355	0.000	
8.687	15405	11334	0.736	0.002	
8.699	6103	11158	1.828	0.000	
8.707	2223	11136	5.009	0.000	13 C26
8.730	28697	12536	0.437	0.004	
8.754	8658	11553	1.334	0.001	
8.763	2896	11612	4.010	0.000	
8.780	15029	12352	0.822	0.002	
8.788	1833	12243	6.680	0.000	
8.798	11854	12679	1.070	0.001	
8.806	1873	12509	6.677	0.000	
8.809	3133	12565	4.011	0.000	
8.813	2506	12550	5.008	0.000	
8.819	7588	12757	1.681	0.001	
8.829	4418	12679	2.870	0.000	
8.835	6988	12762	1.826	0.001	
8.848	13711	13258	0.967	0.002	
8.872	26625	13656	0.513	0.003	
8.894	4575	13127	2.869	0.000	
8.898	2631	13188	5.013	0.000	
8.902	5918	13262	2.241	0.000	
8.914	8577	13313	1.552	0.001	
8.922	4011	13433	3.349	0.000	
8.926	4724	13546	2.867	0.000	
8.933	6787	13651	2.011	0.001	
8.946	9614	13923	1.448	0.001	
8.951	6274	14004	2.232	0.000	
8.960	5592	14036	2.510	0.000	
8.966	3513	14090	4.011	0.000	
8.969	2829	14171	5.009	0.000	
8.973	4976	14233	2.860	0.000	
8.980	4289	14365	3.350	0.000	
8.996	27708	16441	0.593	0.004	
9.013	8129	14847	1.827	0.001	
9.025	8129	14840	1.826	0.001	
9.036	7503	15229	2.030	0.001	
9.040	4559	15225	3.340	0.000	
9.057	14920	16251	1.089	0.002	
9.067	9915	16831	1.698	0.001	
9.076	8535	17331	2.031	0.001	
9.081	5250	17596	3.352	0.000	
9.084	10558	17675	1.674	0.001	
9.095	4386	17601	4.013	0.000	
9.111	30564	19262	0.630	0.004	
9.128	8346	18722	2.243	0.001	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
9.139	15095	18986	1.258	0.002	
9.149	6655	19050	2.862	0.000	
9.158	23240	19719	0.848	0.003	
9.171	1903	19042	10.005	0.000	
9.175	4773	19156	4.013	0.000	
9.187	23630	19927	0.843	0.003	
9.199	4925	19763	4.013	0.000	
9.208	14115	20394	1.445	0.002	
9.219	12303	20691	1.682	0.001	
9.226	7266	20831	2.867	0.001	
9.233	15622	21000	1.344	0.002	14 C28
9.247	9280	20714	2.232	0.001	
9.262	45057	27849	0.618	0.006	
9.281	22651	23200	1.024	0.003	
9.304	13489	22820	1.692	0.001	
9.307	18038	22862	1.267	0.002	
9.328	8656	21778	2.516	0.001	
9.334	8635	21650	2.507	0.001	
9.343	16240	21738	1.339	0.002	
9.354	5409	21709	4.013	0.000	
9.367	16481	22234	1.349	0.002	
9.370	6683	22346	3.344	0.000	
9.382	14775	23166	1.568	0.002	
9.390	11679	23531	2.015	0.001	
9.394	12888	23584	1.830	0.001	
9.408	18752	23645	1.261	0.002	
9.416	4675	23396	5.004	0.000	
9.428	25138	24392	0.970	0.003	
9.438	20233	24095	1.191	0.002	
9.468	67429	26696	0.396	0.009	
9.496	8413	24122	2.867	0.001	
9.507	12049	24259	2.013	0.001	
9.527	36362	25771	0.709	0.005	
9.538	12891	25911	2.010	0.001	
9.543	6452	25853	4.007	0.000	
9.551	10420	26202	2.515	0.001	
9.557	29750	26593	0.894	0.004	
9.574	6252	25071	4.010	0.000	
9.593	29143	27655	0.949	0.004	
9.599	40783	27905	0.684	0.006	
9.620	13159	26364	2.004	0.001	
9.632	17259	26799	1.553	0.002	
9.640	13210	26592	2.013	0.001	
9.664	35362	28170	0.797	0.005	
9.672	27890	28134	1.009	0.004	
9.696	26737	28634	1.071	0.003	
9.711	53475	30848	0.577	0.007	
9.745	33266	29504	0.887	0.004	$ 15 Triacon Surr
9.752	7348	29501	4.015	0.001	
9.756	20542	29565	1.439	0.003	
9.768	7255	29059	4.005	0.001	
9.773	7275	29173	4.010	0.001	
9.785	31543	30611	0.970	0.004	
9.803	46804	32832	0.701	0.006	
9.821	10456	30060	2.875	0.001	
9.833	30772	31156	1.012	0.004	
9.860	77784	33514	0.431	0.011	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
9.881	12779	32069	2.510	0.001	
9.892	14531	32668	2.248	0.002	
9.896	8201	32902	4.012	0.001	
9.908	23357	33882	1.451	0.003	
9.912	27050	34095	1.260	0.003	
9.939	14585	32570	2.233	0.002	
9.951	23032	33095	1.437	0.003	
9.956	11596	33292	2.871	0.001	
9.966	16544	33271	2.011	0.002	
9.971	11660	33391	2.864	0.001	
9.975	10051	33617	3.345	0.001	
9.983	15209	33983	2.234	0.002	
9.988	15177	33830	2.229	0.002	
9.996	10128	33907	3.348	0.001	
10.018	43348	35629	0.822	0.006	
10.021	7133	35693	5.004	0.001	
10.025	8960	35988	4.016	0.001	
10.034	42064	36944	0.878	0.006	
10.063	65447	38699	0.591	0.009	
10.077	7375	36906	5.004	0.001	
10.083	16743	37428	2.235	0.002	
10.095	34467	38665	1.122	0.005	
10.118	90921	40621	0.447	0.013	
10.151	37738	38047	1.008	0.005	
10.158	11383	38037	3.342	0.001	
10.168	36074	38274	1.061	0.005	
10.181	15072	37809	2.509	0.002	16 C32
10.185	5655	37746	6.675	0.000	
10.198	43905	38471	0.876	0.006	
10.208	24771	38177	1.541	0.003	
10.218	19031	38113	2.003	0.002	
10.228	13353	38279	2.867	0.001	
10.237	21225	38826	1.829	0.003	
10.243	30946	38929	1.258	0.004	
10.266	43064	39733	0.923	0.006	
10.275	11912	39784	3.340	0.001	
10.278	19932	39886	2.001	0.002	
10.293	46366	40725	0.878	0.006	
10.318	46465	41024	0.883	0.006	
10.328	24720	41353	1.673	0.003	
10.334	10308	41278	4.005	0.001	
10.343	29100	41866	1.439	0.004	
10.354	22822	41695	1.827	0.003	
10.360	16568	41490	2.504	0.002	
10.376	31388	42321	1.348	0.004	
10.384	36478	43119	1.182	0.005	
10.393	21427	43144	2.014	0.003	
10.416	82339	44731	0.543	0.012	
10.434	23173	42257	1.824	0.003	
10.455	42801	43684	1.021	0.006	
10.459	19648	44004	2.240	0.002	
10.469	19632	43883	2.235	0.002	
10.492	56113	45807	0.816	0.008	
10.497	20626	45915	2.226	0.003	
10.503	27439	45837	1.671	0.004	
10.513	31833	45842	1.440	0.004	
10.523	6773	45190	6.672	0.001	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
10.529	22697	45513	2.005	0.003	
10.543	39087	46432	1.188	0.005	
10.552	16284	46719	2.869	0.002	
10.558	18796	47158	2.509	0.002	
10.576	69878	48769	0.698	0.010	
10.586	12085	48384	4.004	0.001	
10.592	21757	48469	2.228	0.003	
10.609	46960	50482	1.075	0.006	
10.616	40486	50812	1.255	0.005	17 C34
10.628	52392	50284	0.960	0.007	
10.665	99744	52644	0.528	0.014	
10.680	20832	52264	2.509	0.003	
10.699	126137	55939	0.443	0.018	
10.723	18258	52316	2.865	0.002	
10.733	65550	52928	0.807	0.009	
10.751	49102	51903	1.057	0.007	
10.765	10288	51490	5.005	0.001	
10.777	73220	52877	0.722	0.010	
10.791	15621	52150	3.338	0.002	
10.799	46819	52190	1.115	0.006	
10.817	52000	52328	1.006	0.007	
10.828	13014	52167	4.008	0.001	
10.833	18275	52280	2.861	0.002	
10.838	67284	52271	0.777	0.009	
10.860	15395	51401	3.339	0.002	
10.867	15366	51252	3.335	0.002	
10.874	25712	51608	2.007	0.003	
10.885	59363	52064	0.877	0.008	
10.901	33199	51247	1.544	0.004	
10.911	35859	51446	1.435	0.005	
10.925	15150	50526	3.335	0.002	
10.936	27761	50508	1.819	0.004	
10.954	40634	51235	1.261	0.005	
10.958	17973	51428	2.861	0.002	
10.982	101216	54997	0.543	0.014	
10.999	80380	54264	0.675	0.011	
11.022	15822	52869	3.342	0.002	
11.029	23878	53171	2.227	0.003	
11.032	23908	53219	2.226	0.003	
11.044	39793	53228	1.338	0.005	
11.053	13218	52959	4.007	0.001	19 C36
11.057	26491	53088	2.004	0.003	
11.069	47933	53454	1.115	0.007	
11.079	78088	52997	0.679	0.011	
11.132	4853	48537	10.002	0.000	
11.138	21933	48845	2.227	0.003	
11.148	46678	49317	1.057	0.006	
11.158	12248	49060	4.006	0.001	
11.164	14711	49102	3.338	0.002	
11.179	64473	49939	0.775	0.009	
11.192	19751	49439	2.503	0.002	
11.197	14848	49541	3.337	0.002	
11.202	17336	49566	2.859	0.002	
11.206	12400	49639	4.003	0.001	
11.212	56808	49881	0.878	0.008	
11.230	26830	48794	1.819	0.003	
11.263	19014	47590	2.503	0.002	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
11.267	11927	47790	4.007	0.001	
11.285	66432	50042	0.753	0.009	
11.308	17214	49235	2.860	0.002	
11.312	19684	49285	2.504	0.002	
11.322	19740	49570	2.511	0.002	
11.331	27467	50208	1.828	0.004	
11.334	12565	50301	4.003	0.001	
11.338	17617	50367	2.859	0.002	
11.356	50450	50688	1.005	0.007	
11.383	31641	48774	1.541	0.004	
11.392	14562	48589	3.337	0.002	
11.398	14566	48593	3.336	0.002	
11.405	21947	48858	2.226	0.003	
11.418	36961	49602	1.342	0.005	
11.428	52174	49838	0.955	0.007	
11.438	46900	49605	1.058	0.006	
11.456	66003	49218	0.746	0.009	
11.481	84312	48818	0.579	0.012	
11.518	39837	46996	1.180	0.005	
11.533	55836	46822	0.839	0.008	20 C38
11.560	30101	46465	1.544	0.004	
11.568	20916	46512	2.224	0.003	
11.573	11637	46596	4.004	0.001	
11.579	23274	46598	2.002	0.003	
11.586	13953	46531	3.335	0.002	
11.591	9318	46631	5.004	0.001	
11.623	97892	48831	0.499	0.014	
11.631	17107	48984	2.863	0.002	
11.638	22090	49260	2.230	0.003	
11.642	32050	49351	1.540	0.004	
11.669	95446	50981	0.534	0.014	
11.685	95822	49865	0.520	0.014	
11.788	8918	44609	5.002	0.001	
11.791	35704	44768	1.254	0.005	
11.804	11082	44350	4.002	0.001	
11.813	22172	44403	2.003	0.003	
11.823	19993	44543	2.228	0.002	
11.829	13395	44754	3.341	0.001	
11.837	20184	44981	2.228	0.002	
11.852	26933	44942	1.669	0.003	
11.866	36041	45224	1.255	0.005	
11.877	15835	45355	2.864	0.002	
11.883	18222	45726	2.509	0.002	
11.889	15985	45741	2.861	0.002	
11.896	20679	46117	2.230	0.003	
11.905	23259	46896	2.016	0.003	
11.929	70146	49826	0.710	0.010	
11.936	52288	50085	0.958	0.007	
11.951	14787	49369	3.339	0.002	
11.957	17313	49595	2.865	0.002	
11.961	32199	49647	1.542	0.004	
11.971	19578	49063	2.506	0.002	
11.980	34244	49065	1.433	0.005	
12.019	96987	51133	0.527	0.014	
12.025	48685	51499	1.058	0.007	
12.053	38386	51386	1.339	0.005	
12.062	38575	51549	1.336	0.005	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
12.070	17923	51300	2.862	0.002	
12.078	45780	51141	1.117	0.006	
12.105	31495	48817	1.550	0.004	
12.118	85510	48295	0.565	0.012	
12.148	55474	46657	0.841	0.008	21 C40
12.172	34299	45899	1.338	0.005	
12.181	18286	45754	2.502	0.002	
12.188	20565	45727	2.223	0.003	
12.198	29701	45787	1.542	0.004	
12.212	11377	45530	4.002	0.001	
12.218	29576	45566	1.541	0.004	
12.237	41054	45750	1.114	0.006	
12.243	13695	45701	3.337	0.002	
12.253	27528	46122	1.675	0.004	
12.260	16149	46201	2.861	0.002	
12.272	32473	46571	1.434	0.004	
12.347	231342	54259	0.235	0.034	
12.355	96470	54322	0.563	0.014	
12.383	13155	52687	4.005	0.001	
12.389	52817	52930	1.002	0.007	
12.434	117936	55204	0.468	0.017	
12.440	19323	55283	2.861	0.002	
12.448	22049	55156	2.502	0.003	
12.460	127044	56114	0.442	0.018	
12.500	63536	55700	0.877	0.009	
12.519	44746	56237	1.257	0.006	
12.523	16928	56556	3.341	0.002	
12.528	14154	56666	4.003	0.002	
12.532	14154	56644	4.002	0.002	
12.538	25607	57089	2.229	0.003	
12.543	31284	57010	1.822	0.004	
12.560	76588	57084	0.745	0.011	
12.574	22463	56167	2.500	0.003	
12.583	192414	56305	0.293	0.028	
12.668	201456	54098	0.269	0.029	
12.722	63529	49368	0.777	0.009	
12.744	14574	48683	3.340	0.002	
12.757	68233	49046	0.719	0.010	
12.777	29106	48653	1.672	0.004	
12.802	69072	49884	0.722	0.010	
12.805	19947	49915	2.502	0.002	
12.813	12457	49907	4.006	0.001	
12.826	42860	50672	1.182	0.006	
12.830	15192	50711	3.338	0.002	
12.835	63121	50727	0.804	0.009	
12.856	30109	50299	1.671	0.004	
12.871	12459	49875	4.003	0.001	
12.876	24950	49913	2.001	0.003	
12.883	12458	49860	4.002	0.001	
12.892	24999	50091	2.004	0.003	
12.904	37682	50442	1.339	0.005	
12.918	60965	51059	0.838	0.009	
12.929	15268	50972	3.338	0.002	
12.950	101236	52476	0.518	0.014	
12.991	32619	50285	1.542	0.004	
13.030	23826	47690	2.002	0.003	
13.047	49429	47410	0.959	0.007	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
13.072	11668	46709	4.003	0.001	
13.077	14056	46964	3.341	0.002	
13.083	21201	47214	2.227	0.003	
13.092	45034	47490	1.055	0.006	
13.103	33139	47401	1.430	0.004	
13.119	58622	47300	0.807	0.008	
13.136	61979	46406	0.749	0.009	
13.163	36232	45399	1.253	0.005	
13.172	13552	45219	3.337	0.002	
13.178	13550	45211	3.337	0.002	
13.183	13581	45318	3.337	0.002	
13.188	15867	45365	2.859	0.002	
13.193	11350	45433	4.003	0.001	
13.206	54879	45909	0.837	0.008	
13.233	74220	46899	0.632	0.010	
13.246	18724	46923	2.506	0.002	
13.250	14089	47028	3.338	0.002	
13.254	9392	46999	5.004	0.001	
13.261	35241	47103	1.337	0.005	
13.270	21093	46884	2.223	0.003	
13.278	16404	46889	2.858	0.002	
13.284	28108	46937	1.670	0.004	
13.309	27777	46575	1.677	0.004	
13.313	11643	46617	4.004	0.001	
13.323	30391	46938	1.544	0.004	
13.337	49696	47554	0.957	0.007	
13.345	11906	47686	4.005	0.001	
13.352	21499	47921	2.229	0.003	
13.358	14416	48133	3.339	0.002	
13.366	24163	48487	2.007	0.003	
13.391	108474	49842	0.459	0.016	
13.411	39818	49922	1.254	0.005	
13.421	140245	49882	0.356	0.020	
13.468	75433	46221	0.613	0.011	
13.519	59701	44435	0.744	0.008	
13.538	26345	44021	1.671	0.003	
13.553	17475	43727	2.502	0.002	
13.559	19699	43828	2.225	0.002	
13.566	15324	43832	2.860	0.002	
13.574	28519	43956	1.541	0.004	
13.585	21950	43943	2.002	0.003	
13.595	26497	44341	1.673	0.003	
13.603	22230	44574	2.005	0.003	
13.608	11135	44585	4.004	0.001	
13.633	100703	46371	0.460	0.014	
13.650	25255	45974	1.820	0.003	
13.663	20511	45675	2.227	0.003	
13.670	15945	45584	2.859	0.002	
13.677	40973	45642	1.114	0.006	
13.688	4544	45448	10.002	0.000	
13.693	29520	45508	1.542	0.004	
13.718	24720	44995	1.820	0.003	
13.727	11216	44890	4.002	0.001	
13.735	29185	45025	1.543	0.004	
13.752	17874	44782	2.505	0.002	
13.767	35874	45020	1.255	0.005	
13.775	36036	45104	1.252	0.005	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
13.785	11226	44939	4.003	0.001	
13.790	47016	44953	0.956	0.006	
13.813	11118	44516	4.004	0.001	
13.818	37641	44507	1.182	0.005	
13.832	15424	44192	2.865	0.002	
13.838	17564	43967	2.503	0.002	
13.844	26339	43892	1.666	0.003	
13.855	30567	43821	1.434	0.004	
13.865	23854	43526	1.825	0.003	
13.882	28266	43639	1.544	0.004	
13.886	30418	43629	1.434	0.004	
13.901	34702	43472	1.253	0.005	
13.920	48162	44005	0.914	0.007	
13.928	17577	43956	2.501	0.002	
13.941	15410	44084	2.861	0.002	
13.946	11045	44251	4.006	0.001	
13.949	24369	44341	1.820	0.003	
13.959	22103	44264	2.003	0.003	
13.967	22088	44195	2.001	0.003	
13.976	33207	44336	1.335	0.004	18 Filter Peak
13.998	24195	44018	1.819	0.003	
14.007	15335	43888	2.862	0.002	
14.014	17519	43863	2.504	0.002	
14.019	54335	43870	0.807	0.008	
14.046	10722	42915	4.003	0.001	
14.052	19305	42955	2.225	0.002	
14.058	8568	42864	5.003	0.001	
14.067	38739	43159	1.114	0.005	
14.077	15012	42931	2.860	0.002	
14.083	25753	42977	1.669	0.003	
14.102	25682	42913	1.671	0.003	
14.108	19267	42865	2.225	0.002	
14.116	12834	42815	3.336	0.001	
14.126	25874	43369	1.676	0.003	
14.133	56339	43595	0.774	0.008	
14.161	32503	43582	1.341	0.004	
14.165	10909	43696	4.006	0.001	
14.170	15313	43822	2.862	0.002	
14.175	10960	43911	4.007	0.001	
14.178	13176	43945	3.335	0.001	
14.183	19785	43976	2.223	0.002	
14.191	8796	44018	5.005	0.001	
14.197	17636	44177	2.505	0.002	
14.208	28815	44459	1.543	0.004	
14.219	8873	44379	5.002	0.001	
14.223	13318	44445	3.337	0.001	
14.229	28860	44456	1.540	0.004	
14.247	15436	44194	2.863	0.002	
14.260	37147	43758	1.178	0.005	
14.274	45685	43705	0.957	0.006	
	677340272	268782821		100.000	

Total unknown % area = 25.478

Supelco®

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Certificate of Composition - Analytical Standard

ACID STOC"

Product no.: 22523046
Lot no.: LRAC9812
Expiry Date: May 2023
Manufacturing Date: May 2021
Storage: Refrigerate
Solvent/Matrix: Dichloromethane
Certificate version: LRAC9812.01 *(Note: Certificates may be updated due to the availability of new data. Check our website at: www.sigma-aldrich.com for the most current version.)*

J005200
SVOA-ABN ACID STOCK-200-800ug/ml
Solvent / Lot: DCM
Prep: 5/18/2021 by JZ
Exp: 5/31/2023
Location:

JZ 5/18/21

Analyte	*Assigned Value*	*Units*	*Raw Material Purity,%*	*Raw Material Lot*
2,4-DIMETHYLPHENOL CAS# 105-67-9	802	µg/mL	99.9	LB88935
2,4-DICHLOROPHENOL CAS# 120-83-2	802	µg/mL	100.0	BCBZ6787
2,4,5-TRICHLOROPHENOL CAS# 95-95-4	802	µg/mL	99.9	JS00008
2,4-DINITROPHENOL CAS# 51-28-5	1806	µg/mL	75.9	MKBP5833V
2,4,6-TRICHLOROPHENOL CAS# 88-06-2	803	µg/mL	98.7	LB82983
4-CHLORO-3-METHYLPHENOL CAS# 59-50-7	801	µg/mL	99.9	JS00013
4-NITROPHENOL CAS# 100-02-7	801	µg/mL	99.9	LC10889
2-METHYL-4,6-DINITROPHENOL CAS# 534-52-1	1804	µg/mL	99.7	LC18338
PENTACHLOROPHENOL CAS# 87-86-5	803	µg/mL	98.7	MKCK8156
BENZOIC ACID CAS# 65-85-0	1805	µg/mL	99.9	LC16514

Measurement method: Where applicable, the assigned value is based on a purity determination by mass balance and gravimetrically prepared value.

Intended use: Intended for R&D and Analytical Use only. Not for drug, household or other uses.

Packaging: 1 mL in amber ampule

Instructions for handling and correct use: Use on the as is basis. The internal pressure of the container may be slightly different from the atmospheric pressure at the user`s location. Open slowly and carefully to avoid dispersion of the material.

Health and safety information: All chemical reference materials should be considered potentially hazardous and should be used only by qualified laboratory personnel. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.

Agilent

Certificate of Analysis

J008074

SVOA PAH STD 2000ug/ml
Expires 6/30/2023
Prepared By Joshua Rains 8/5/2021

Product Name: PAH Standard

Product Number: US-106N-1

Lot Number: 0006540449

Lot Issue Date: 11-Jun-2020

Expiration Date: 30-Jun-2023

Description:

This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system, and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	Concentration ± Uncertainty
acenaphthene	000083-32-9	RM10879	2008 ± 10 µg/mL
acenaphthylene	000208-96-8	RM10891	2003 ± 10 µg/mL
anthracene	000120-12-7	RM14212	2006 ± 10 µg/mL
benz[a]anthracene	000056-55-3	RM16072	2006 ± 10 µg/mL
benzo[b]fluoranthene	000205-99-2	RM14571	2005 ± 10 µg/mL
benzo[k]fluoranthene	000207-08-9	RM14321	2009 ± 10 µg/mL
benzo[ghi]perylene	000191-24-2	RM15761	2008 ± 10 µg/mL
benzo[a]pyrene	000050-32-8	RM12669	2009 ± 10 µg/mL
chrysene	000218-01-9	RM12260	2009 ± 10 µg/mL
dibenz[a,h]anthracene	000053-70-3	RM06786	2009 ± 10 µg/mL
fluoranthene	000206-44-0	RM12277	2004 ± 10 µg/mL
fluorene	000086-73-7	RM09441	2009 ± 10 µg/mL
indeno[1,2,3-cd]pyrene	000193-39-5	RM14192	2009 ± 10 µg/mL
naphthalene	000091-20-3	NT00970	2008 ± 10 µg/mL
phenanthrene	000085-01-8	RM10495	2009 ± 10 µg/mL
pyrene	000129-00-0	RM03479	2008 ± 10 µg/mL

Matrix: methylene chloride/benzene (1:1)

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

ISO 17034 Cert No. AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026

www.agilent.com/quality/

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY

ISO 17025 Cert No. AT-1937

Certificate of Analysis

Product Number: US-106N-1 **Lot Number:** 0006540449

Storage Conditions: Store at Room Temperature (15° to 30°C).

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:
This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Hazards:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this RM.

Expiration of Certification:
The certification of this RM is valid until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.

Maintenance of Certification:
If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:

Monica Bourgeois
QMS Representative

ISO 17034 Cert No.
AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026
Page: 2 of 2

www.agilent.com/quality/

ISO 17025 Cert
No. AT-1937

Certificate of Analysis

Produced by Phenova
6390 Joyce Drive STE 100, Golden, CO 80403 USA ■ Tel: 303-940-0033 ■ Fax: 303-940-0043 ■ info@phenova.com
Access your Safety Data Sheets and digital Certificates at **www.phenova.com/documents.**

Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101244
Description: Benzidines Standard
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Methylene Chloride

Lot Number: CL16062
Certification Date: November 19, 2020
Expiration Date: November 30, 2030

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Benzidine	92-87-5	2000	± 2.740%
3,3'-Dichlorobenzidine	91-94-1	2000	± 3.229%

J008310
Benzidines std @2000ug/ml
Expires 11/30/2030
Prepared By Van Spohn 8/12/2021

ACCREDITED
Reference Material Producer
Certicate No. 2427.02

Phenova is an accredited ISO/IEC 17034 Reference Material Producer and ISO/IEC 17025 accredited Chemical Testing Laboratory.

ACCREDITED
Chemical Testing Laboratory
Certicate No. 2427.03

IL64691018_us

Produced by Phenova
6390 Joyce Drive STE 100, Golden, CO 80403 USA ■ Tel: 303-940-0033 ■ Fax: 303-940-0043 ■ info@phenova.com
Access your Safety Data Sheets and digital Certificates at **www.phenova.com/documents.**

1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31[1] and ISO Guide 35.[2]

2. Quality Standards: Phenova is accredited by A2LA to ISO 17034[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.

4. Handling and Usage Notes: Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

   Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.

12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

[1] ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
[3] ISO 17034 – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

Certificate of Analysis

BNAs - Sandy Loam 1

Certified Reference Material

Description

Product ID CRM143-50G
Lot **LRAC8918**
Expiration Date January 2024
Manufacturing Date January 2021
Storage Conditions Refrigerate
Solvent/Matrix SOIL

Certified Values

Analyte	*Units*	*Certified Value* [1,4]
1,2,4-Trichlorobenzene	µg/Kg	1477 ± 181
1,3-Dichlorobenzene (m-Dichlorobenzene)	µg/Kg	1625 ± 292
1-Chloronaphthalene	µg/Kg	2809 ± 84
2,3-Dimethylphenol	µg/Kg	4552 ± 137
2,4,5-Trichlorophenol	µg/Kg	3438 ± 245
2,4,6-Trichlorophenol	µg/Kg	2194 ± 251
2,4-Dichlorophenol	µg/Kg	6991 ± 394
2,4-Dimethylphenol	µg/Kg	6357 ± 879
2,4-Dinitrophenol	µg/Kg	2922 ± 523
2,4-Dinitrotoluene (2,4-DNT)	µg/Kg	3318 ± 442
2,6-Dichlorophenol	µg/Kg	4578 ± 874
2,6-Dimethylphenol	µg/Kg	7582 ± 228
2-Chloronaphthalene	µg/Kg	2223 ± 168
2-Chlorophenol	µg/Kg	1678 ± 202
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	µg/Kg	5148 ± 685
2-Methylphenol (o-Cresol)	µg/Kg	6004 ± 573
2-Nitrophenol	µg/Kg	6456 ± 383
3,4-Dimethylphenol	µg/Kg	7185 ± 216
3+4-Methylphenol (m+p-Cresol)	µg/Kg	8033 ± 1613
4-Bromophenyl phenyl ether (BDE-3)	µg/Kg	7169 ± 310
4-Chloro-3-methylphenol	µg/Kg	2071 ± 110
4-Chlorophenyl phenylether	µg/Kg	2052 ± 113
4-Methylphenol (p-Cresol)	µg/Kg	6617 ± 1371
4-Nitrophenol	µg/Kg	6812 ± 595
Acenaphthene	µg/Kg	5489 ± 380

Description

Lot **LRAC8918**
Expiration Date January 2024
Manufacturing Date January 2021
Storage Conditions Refrigerate
Solvent/Matrix SOIL

Acenaphthylene	µg/Kg	1948 ± 240
Anthracene	µg/Kg	2866 ± 237
Benzo(a)anthracene	µg/Kg	5751 ± 552
Benzo(a)pyrene	µg/Kg	5902 ± 612
Benzo(b)fluoranthene	µg/Kg	3010 ± 409
Benzo(b+k)fluoranthene	µg/Kg	6534 ± 196
Benzo(g,h,i)perylene	µg/Kg	1380 ± 136
Benzo(k)fluoranthene	µg/Kg	2215 ± 237
Butyl benzyl phthalate	µg/Kg	3511 ± 384
Carbazole	µg/Kg	5412 ± 407
Chrysene	µg/Kg	1477 ± 72
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	µg/Kg	2905 ± 321
Dibenzo(a,h)anthracene	µg/Kg	3420 ± 302
Dibenzofuran	µg/Kg	6130 ± 253
Dimethyl phthalate	µg/Kg	4537 ± 250
Di-n-butyl phthalate	µg/Kg	1721 ± 154
Di-n-octyl phthalate	µg/Kg	2744 ± 288
Fluoranthene	µg/Kg	2497 ± 222
Fluorene	µg/Kg	3724 ± 222
Hexachlorobutadiene	µg/Kg	1877 ± 245
Indeno(1,2,3-cd) pyrene	µg/Kg	3914 ± 409
Isophorone	µg/Kg	1615 ± 170
Naphthalene	µg/Kg	4458 ± 480
Nitrobenzene	µg/Kg	3539 ± 266
n-Nitrosodimethylamine	µg/Kg	1580 ± 402
n-Nitrosodiphenylamine	µg/Kg	2854 ± 379
Pentachlorophenol	µg/Kg	3411 ± 358
Phenanthrene	µg/Kg	5052 ± 385
Phenol	µg/Kg	2660 ± 184
Pyrene	µg/Kg	2964 ± 256
Pyridine	µg/Kg	1008 ± 30

Informational Values

Certificate of Analysis

BNAs - Sandy Loam 1

Certified Reference Material

Description

Product ID CRM143-50G
Lot **LRAC8918**
Expiration Date January 2024
Manufacturing Date January 2021
Storage Conditions Refrigerate
Solvent/Matrix SOIL

Analyte	*Units*	*Suggested Acceptance Windows*	*Standard Deviation*
1,2,4-Trichlorobenzene	µg/Kg	148 to 2853	459
1,3-Dichlorobenzene (m-Dichlorobenzene)	µg/Kg	163 to 3440	605
1-Chloronaphthalene	µg/Kg	1123 to 4494	562
2,3-Dimethylphenol	µg/Kg	1821 to 7284	910
2,4,5-Trichlorophenol	µg/Kg	1003 to 5872	811
2,4,6-Trichlorophenol	µg/Kg	640 to 3748	518
2,4-Dichlorophenol	µg/Kg	2391 to 11591	1533
2,4-Dimethylphenol	µg/Kg	0.00 to 13959	2534
2,4-Dinitrophenol	µg/Kg	1169 to 4675	584
2,4-Dinitrotoluene (2,4-DNT)	µg/Kg	1248 to 5388	690
2,6-Dichlorophenol	µg/Kg	1831 to 7324	916
2,6-Dimethylphenol	µg/Kg	3033 to 12132	1516
2-Chloronaphthalene	µg/Kg	748 to 3699	492
2-Chlorophenol	µg/Kg	415 to 2942	421
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	µg/Kg	0.00 to 10347	1733
2-Methylphenol (o-Cresol)	µg/Kg	1306 to 10702	1566
2-Nitrophenol	µg/Kg	1534 to 11379	1641
3,4-Dimethylphenol	µg/Kg	2874 to 11495	1437
3+4-Methylphenol (m+p-Cresol)	µg/Kg	4054 to 16218	2027
4-Bromophenyl phenyl ether (BDE-3)	µg/Kg	2901 to 11437	1423
4-Chloro-3-methylphenol	µg/Kg	677 to 3464	464
4-Chlorophenyl phenylether	µg/Kg	756 to 3348	432
4-Methylphenol (p-Cresol)	µg/Kg	2647 to 10587	1323
4-Nitrophenol	µg/Kg	681 to 14762	2650
Acenaphthene	µg/Kg	2243 to 8736	1082
Acenaphthylene	µg/Kg	712 to 3183	412
Anthracene	µg/Kg	1218 to 4515	550
Benzo(a)anthracene	µg/Kg	2806 to 8696	982
Benzo(a)pyrene	µg/Kg	2512 to 9292	1130
Benzo(b)fluoranthene	µg/Kg	1197 to 4822	604
Benzo(b+k)fluoranthene	µg/Kg	2614 to 10454	1307

Description

Lot **LRAC8918**
Expiration Date January 2024
Manufacturing Date January 2021
Storage Conditions Refrigerate
Solvent/Matrix SOIL

Benzo(g,h,i)perylene	µg/Kg	489 to 2271	297
Benzo(k)fluoranthene	µg/Kg	892 to 3537	441
Butyl benzyl phthalate	µg/Kg	1255 to 5766	752
Carbazole	µg/Kg	2032 to 8792	1127
Chrysene	µg/Kg	669 to 2284	269
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	µg/Kg	765 to 5045	713
Dibenzo(a,h)anthracene	µg/Kg	1257 to 5583	721
Dibenzofuran	µg/Kg	2766 to 9493	1121
Dimethyl phthalate	µg/Kg	1842 to 7231	898
Di-n-butyl phthalate	µg/Kg	495 to 2947	409
Di-n-octyl phthalate	µg/Kg	690 to 4798	685
Fluoranthene	µg/Kg	984 to 4009	504
Fluorene	µg/Kg	1638 to 5810	695
Hexachlorobutadiene	µg/Kg	425 to 3329	484
Indeno(1,2,3-cd) pyrene	µg/Kg	870 to 6957	1015
Isophorone	µg/Kg	437 to 2792	392
Naphthalene	µg/Kg	1131 to 7784	1109
Nitrobenzene	µg/Kg	1024 to 6054	838
n-Nitrosodimethylamine	µg/Kg	632 to 2528	316
n-Nitrosodiphenylamine	µg/Kg	1142 to 4567	571
Pentachlorophenol	µg/Kg	341 to 7037	1209
Phenanthrene	µg/Kg	2307 to 7798	915
Phenol	µg/Kg	681 to 4639	660
Pyrene	µg/Kg	1118 to 4810	615
Pyridine	µg/Kg	403 to 1613	202

Additional Information:

DESCRIPTION

The organic sample is a soil containing extractable BNAs for analysis by 8100, 8270, 8310 or equivalent methods.

This product consist of a 5 vials each containing 10g of soil for analysis of PAHs. Each vial is identical and has been tested how homogeneity. Only one vial is need for test the remaining vials are to be used for multiple methods or routine testing.

The soil has been sterilized to minimize degradation of the sample.

The sample has been sized to 100 mesh.

Required storage condition is 4ºC.

The sample has been intentionally prepared with an apparent headspace.

STORAGE

The sample should be stored at 4ºC. It has been determined to be stable for the duration of the expiration date.

After sub-sampling replace cap securely and store remaining sample at 4ºC.

The shelf life of the product was determined by historic stability of similar CRM's. The expiration date may be extended based on stock and popularity upon successful stability testing by a 17025 accredited laboratory.

Certificate of Analysis

BNAs - Sandy Loam 1

Certified Reference Material

Description

Product ID	CRM143-50G
Lot	**LRAC8918**
Expiration Date	January 2024
Manufacturing Date	January 2021
Storage Conditions	Refrigerate
Solvent/Matrix	SOIL

Stability and shelf life after opening must be determined by the user, taking into account sampling frequency/volume and all local conditions.

SAMPLE PREPARATION

Extract the complete contents of a single vial. Transfer entire contents of one vial to extraction vessel. Rinse vial and cap with extraction solvent.

Assume a 10g sample size for all calculations.

Note: Sample extracts and calibration solutions should be in the same solvent.

Report all results on a wet weight basis, do not correct for moisture.

NOTE: For method 8100 and using a packed column gas chromatographic method or cannot adequately resolve the following may coelute in four pairs of compounds: anthracene and phenanthrene; chrysene and benzo(a)anthracene; benzo(b)fluoranthene and benzo(k)fluoranthene; and dibenzo(a,h)anthracene and indeno(1,2,3-cd)pyrene.

SCOPE AND APPLICATION

The BNAs in Soil Certified Reference Material (CRM) consists of 5 10mL VOA vials, with a Teflon lined closures containing approximately 10 grams of soil, fortified with BNAs. Being a natural matrix waste sample the analyst is challenged by the same preparation problems, analytical interferences, etc. as is typical for similar matrices received by the laboratory for analysis.

Description

Lot	**LRAC8918**
Expiration Date	January 2024
Manufacturing Date	January 2021
Storage Conditions	Refrigerate
Solvent/Matrix	SOIL

1 **Metrological traceability:** Traceable to the SI and higher order standards from NIST through an unbroken chain of comparisons. The balance used to weigh raw materials is accurate to +/-0.0001 g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.
4 Ucrm - Uncertainty values in this document are expressed as Expanded Uncertainty (Ucrm) corresponding to the 95% confidence interval. Ucrm is derived from the combined standard uncertainty multiplied by the coverage factor k, which is obtained from a *t*-distribution and degrees of freedom. K=2 unless specified. The components of combined standard uncertainty include the uncertainties due to characterization, homogeneity, long term stability, and short term stability (transport). The components due to stability are generally considered to be negligible unless otherwise indicated by stability studies. The mathematical representation of the Ucrm calculation is as follows:

$$u_{CRM} = \sqrt{u_{char}^2 + u_{\text{hom } ogeneity}^2 + u_{stability}^2}$$

***k*:** Coverage factor derived from a t-distribution table, based on the degrees of freedom of the data set. Assume 2.0 for a **Confidence interval = 95%**

6 Analytical Value- For QC verification of the certified value only- not to be used in calculations. Represents the analytical data obtained by comparison to a standard as analyzed by the method described in the CoA or another acceptable method. The result may differ from the certified value and UCRM based on method uncertainty as well as the uncertainty associated with the standard used for comparison.

Traceability: The standard was manufactured under an ISO/IEC 17025:2017 certified quality system. The balance used to weigh raw materials is accurate to +/- 0.0001g and calibrated regularly using mass standards traceable to NIST. All dilutions were preformed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.

Homogeneity: Homogeneity was assessed in accordance with ISO 17034:2016. Completed units were sampled using a random stratified sampling protocol. The results of chemical analysis were then compared using a one-way analysis of variance approach as described by TNI EL-V3-2009 Appendix A.2. See Instructions for minimum sub-sample size.

Expiration is at end of month given on certificate and label.

MSDS reports for components comprising greater than 1.0% of the solution or 0.1% for components known to be carcinogens are available upon request.

THIS PRODUCT WAS DESIGNED, PRODUCED AND VERIFIED FOR ACCURACY AND STABILITY IN ACCORDANCE WITH **ISO/IEC 17025:2017 (ANAB Cert AT-1467)** and **ISO 17034:2016 (ANAB Cert AR-1470).**

Andy Ommen - QC Manager

Mark Pooler - QA Supervisor

Certification Date	January 05, 2021
Version	0-152021

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

Certificate of Analysis

Phenova Certified Reference Materials are sold by Phenomenex.
411 Madrid Ave., Torrance, CA 90501 USA ▪ Tel: 310-212-0555 ▪ Fax: 310-328-7768 ▪ info@phenomenex.com
Access your MSDS and digital C of A at **www.phenomenex.com/mysupport. Re-order at www.phenomenex.com/standards**

Certified Reference Material

This product is included in Phenova's ISO/IEC 17025 and ISO Guide 34 Scopes of Accreditation

Catalog No.:	AL0-101291	**Lot Number:**	CL11000
Description:	GC/MS Tuning Mix	**Certification Date:**	May 9, 2014
Storage:	4 °C	**Expiration Date:**	December 31, 2023
Provided As:	1 mL in 2 mL Ampoule in Methylene chloride	**Revision Date:**	August 5, 2015

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty (%)
Benzidine	92-87-5	1000	± 0.208%
Decafluorotriphenylphosphine (DFTPP)	5074-71-5	1000	± 0.057%
4,4'-DDT	50-29-3	1000	± 0.056%
Pentachlorophenol	87-86-5	1000	± 0.061%

K003891
GC/MS Tune solution-1000ug/ml
Solvent / Lot: CL11000
Prep: 4/22/2022 by VS
Exp: 12/31/2023
Location:

ACCREDITED
Reference Material Producer
Certificate No. 2427.02

phenova® Certified Reference Materials

Manufactured by Phenova, Inc.
Phenova's testing and calibration results are internationally recognized through the ILAC MRA. Phenova is an accredited ISO Guide 34 Reference Material Provider and ISO/IEC 17025 accredited Chemical Testing Laboratory.

ilac-MRA ACCREDITED
Chemical Testing Laboratory
Certificate No. 2427.03

IL111106/13_us

Reference Materials Producer
Cert #2495.01

Certificate of Analysis

Chemical Testing
Cert #2495.02

Catalog Number: ECS-A-030 **Lot No.** AA210126005

Description: Base/Neutrals Mix 1

Matrix: Methylene Chloride

Manufactured Date: 1-26-2021

Expiration Date: 1-26-2024

This **SPEXOrganics**® Certified Reference Material, CRM, is intended primarily for use as a calibration standard or quality control standard for organic chromatography instrumentation such as GC, GC-MS, LC, and LC-MS. It can be employed in USEPA, ASTM and other methods relevant to the certified properties listed below.

Certified Compounds:

Compound	CAS #	Labeled	Purity	Certified†	Uncertainty
1,2,4-Trichlorobenzene	120-82-1	2000 µg/mL	99%	2010 µg/mL	± 50 µg/mL
1,2-Dichlorobenzene	95-50-1	2000 µg/mL	99%	2002 µg/mL	± 50 µg/mL
1,3-Dichlorobenzene	541-73-1	2000 µg/mL	98%	2021 µg/mL	± 51 µg/mL
1,4-Dichlorobenzene	106-46-7	2000 µg/mL	99%	2012 µg/mL	± 50 µg/mL
2,4-Dinitrotoluene	121-14-2	2000 µg/mL	97%	2006 µg/mL	± 50 µg/mL
2,6-Dinitrotoluene	606-20-2	2000 µg/mL	99.6%	2012 µg/mL	± 50 µg/mL
2-Chloronaphthalene	91-58-7	2000 µg/mL	98%	2004 µg/mL	± 50 µg/mL
4-Bromodiphenyl ether	101-55-3	2000 µg/mL	99%	2022 µg/mL	± 51 µg/mL
4-Chlorophenyl-phenyl ether	7005-72-3	2000 µg/mL	98%	2001 µg/mL	± 50 µg/mL
Azobenzene	103-33-3	2000 µg/mL	98%	2001 µg/mL	± 50 µg/mL
Bis(2-chloro-1-methylethyl) ether	108-60-1	2000 µg/mL	98.9%	2010 µg/mL	± 50 µg/mL
bis(2-Chloroethoxy)methane	111-91-1	2000 µg/mL	97%	2001 µg/mL	± 50 µg/mL
bis(2-Chloroethyl)ether	111-44-4	2000 µg/mL	99%	2002 µg/mL	± 50 µg/mL
Bis(2-Ethylhexyl)phthalate	117-81-7	2000 µg/mL	99%	2003 µg/mL	± 50 µg/mL
Butylbenzyl phthalate	85-68-7	2000 µg/mL	98%	2000 µg/mL	± 50 µg/mL
Carbazole	86-74-8	2000 µg/mL	95%	2009 µg/mL	± 50 µg/mL
Di-n-butyl phthalate	84-74-2	2000 µg/mL	99%	2020 µg/mL	± 50 µg/mL
Di-n-octyl phthalate	117-84-0	2000 µg/mL	98%	2000 µg/mL	± 50 µg/mL
Diethyl phthalate	84-66-2	2000 µg/mL	99.5%	2002 µg/mL	± 50 µg/mL
Dimethyl phthalate	131-11-3	2000 µg/mL	99%	2006 µg/mL	± 50 µg/mL
Hexachlorobenzene	118-74-1	2000 µg/mL	99%	2003 µg/mL	± 50 µg/mL
Hexachlorobutadiene	87-68-3	2000 µg/mL	97%	2003 µg/mL	± 50 µg/mL
Hexachlorocyclopentadiene	77-47-4	2000 µg/mL	99%	2003 µg/mL	± 50 µg/mL
Hexachloroethane	67-72-1	2000 µg/mL	98%	2003 µg/mL	± 50 µg/mL
Isophorone	78-59-1	2000 µg/mL	97%	2003 µg/mL	± 50 µg/mL
N-Nitrosodi-n-propylamine	621-64-7	2000 µg/mL	98%	2000 µg/mL	± 50 µg/mL
N-Nitrosodiphenylamine	86-30-6	2000 µg/mL	97%	2001 µg/mL	± 50 µg/mL
Nitrobenzene	98-95-3	2000 µg/mL	99%	2001 µg/mL	± 50 µg/mL
Pyridine	110-86-1	2000 µg/mL	99%	2004 µg/mL	± 50 µg/mL
N-Nitrosodimethylamine	62-75-9	2000 µg/mL	97%	2000 µg/mL	± 50 µg/mL

Certificate of Reference Material

Catalog Number: ECS-A-030 **Lot No.** AA210126005

Description: Base/Neutrals Mix 1

Matrix: Methylene Chloride

Manufactured Date: 1-26-2021

Expiration Date: 1-26-2024

Final Solution Verification:

Final solution integrity verified by Gas Chromatography/Mass Spectrometry. The mass spectrum of each compound was confirmed against the NIST mass spectral database.

† Certified concentration based on gravimetric weights and corrected for the purity of the compound(s) used to prepare the standard. Analytical balance calibration is verified daily with C1 weight set #23-190006 which is registered with Atlantic Scale, and traceable to NIST and NJ Division of Weights and Measures.

This CRM is guaranteed stable and accurate to within the uncertainty listed for the certified value. This includes uncertainty components due to preparation, homogeneity, short term and long term stability. During the stated period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution. For further information, contact the Sales Support Department at crmsales@spexcsp.com.

Date of Certification: 1-26-2021 Certifying Officer: Shannon Mora

Report of Certification

Catalog Number: ECS-A-030 **Lot No.** AA210126005

Description: Base/Neutrals Mix 1

Matrix: Methylene Chloride

Manufactured Date: 1-26-2021

Expiration Date: 1-26-2024

This Certified Reference Material (CRM) has been prepared and certified under an ISO 9001:2008, ISO 17025:2005, and ISO Guide 34:2009 Quality System consistent with the following standards:

- ISO 9001:2008: Quality management systems - Requirements - Certified by UL-DQS
- ISO 17025:2005: General Requirements for the Competence of Testing and Calibration Laboratories - Accredited by A2LA
- ISO Guide 34:2009: General Requirements for the Competence of Reference Material Producers - Accredited by A2LA
- ISO Guide 31:2000: Reference Materials - Contents of Certificates and Labels
- ISO Guide 35:2006: Reference Materials - General and statistical principals for certification
- Guide to the Expression of Uncertainty in Measurement 1997
- EURACHEM/CITAC Guide: Qualifying Uncertainty in Analytical Measurements - Second Edition
- ASTM Guide D6362-98
- NIST Technical Note 1297
- ILAC-G12-2000: Guidelines for the requirements for the competence of reference material producers
- ISO/REMCO N280

Storage Requirements:

To ensure the stability of the product once it arrives in your laboratory , please store this product in a refrigerator (2°C to 8°C). Note: Shipping conditions may differ from storage conditions. The EXPIRATION DATE is calculated from the MANUFACTURED DATE using our stability data and is applicable only if the product is unopened and stored under the prescribed conditions.

Instructions for Use:

Let material come to room temperature before use. Check for precipitate and if necessary sonicate for one minute. If compounds do not dissolve after one minute then sonicate further until the product is dissolved. A clear appearance is acceptable. The minimum recommended amount that should be removed from this vial is 5 µL with a 25µL gas tight syringe. All solutions should be thoroughly mixed, by shaking, prior to use. All surfaces that come in contact with the solution must be thoroughly cleaned prior to use. Dilutions should be performed only with Class A volumetric glassware.

Material Source:

All analytes and matrix materials are obtained and verified by SPEX CertiPrep from pre-qualified vendors as per ISO guidelines. Vendor identifications are proprietary, however sources of all materials used in the preparation and testing of SPEX CertiPrep CRMs are tracked and documented. For assistance, please contact sales support at crmsales@spexcsp.com.

Method of Preparation:

Clean laboratory procedures and techniques have been used throughout the preparation. All materials, equipment, and analytical instrumentation have been qualified prior to use. The highest purity solvents and Class A / calibrated volumetrics have been been used in all preparations.

Homogeneity:

The homogeneity of this CRM has been confirmed by procedures consistent with ISO 17025:2005, ISO Guide 34:2009, and ASTM D6362-98 Appendix X2. Random, replicate samples of the final, packaged material have been analyzed to prove homogeneity in accordance with our internal procedure 4300-HOMOGEN-1A. This is consistent with the intended use of this CRM. The Degree of Homogeneity, as expressed as maximum between-bottle variation, is 1.2%

Statistical Estimator and Confidence Limits:

The Certified value 'X' as listed on the reverse of this document is at the 95% level of confidence and can be expressed as:

- $X = x \pm U$ where X=certified value, U=expanded uncertainty, x=property value
- $U = ku_c$ where k=2 is the coverage factor at the 95% confidence level
- u_c = combined standard uncertainty obtained by combining the individual compound standard uncertainty components u_i, where $u_c = \sqrt{\sum u_i^2}$

Legal Notice:

SPEX CertiPrep Certified Reference Materials are not for any cosmetic, drug, or household application and are to be used only by qualified individuals who are trained in appropriate procedures. No claims against SPEX CertiPrep of any kind whatsoever, whether based on breech of warranty, alleged negligence, or otherwise, with respect to this Reference Material shall be greater than the purchase price. In no event shall SPEX CertiPrep be liable for any loss of profits or any incidental, special, or consequential damages.

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Accredited to 17025 & Guide 34 ISO Certified to 9001

ACCREDITED
Reference Materials Producer
Cert #2495.01

ECS

Certificate of Analysis

ilac-MRA ACCREDITED
Chemical Testing
Cert #2495.02

Catalog Number: ECS-A-030 **Lot No.** AA210126005

Description: Base/Neutrals Mix 1

Matrix: Methylene Chloride

Manufactured Date: 1-26-2021

Expiration Date: 1-26-2024

This **SPEXOrganics®** Certified Reference Material, CRM, is intended primarily for use as a calibration standard or quality control standard for organic chromatography instrumentation such as GC, GC-MS, LC, and LC-MS. It can be employed in USEPA, ASTM and other methods relevant to the certified properties listed below.

Certified Compounds:

Compound	CAS #	Labeled	Purity	Certified†	Uncertainty
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1,2-Dichlorobenzene	95-50-1	2000 µg/mL	99%	2002 µg/mL	± 50 µg/mL
1,3-Dichlorobenzene	541-73-1	2000 µg/mL	98%	2021 µg/mL	± 51 µg/mL
1,4-Dichlorobenzene	106-46-7	2000 µg/mL	99%	2012 µg/mL	± 50 µg/mL
2,4-Dinitrotoluene	121-14-2	2000 µg/mL	97%	2006 µg/mL	± 50 µg/mL
2,6-Dinitrotoluene	606-20-2	2000 µg/mL	99.6%	2012 µg/mL	± 50 µg/mL
2-Chloronaphthalene	91-58-7	2000 µg/mL	98%	2004 µg/mL	± 50 µg/mL
4-Bromodiphenyl ether	101-55-3	2000 µg/mL	99%	2022 µg/mL	± 51 µg/mL
4-Chlorophenyl-phenyl ether	7005-72-3	2000 µg/mL	98%	2001 µg/mL	± 50 µg/mL
Azobenzene	103-33-3	2000 µg/mL	98%	2001 µg/mL	± 50 µg/mL
Bis(2-chloro-1-methylethyl) ether	108-60-1	2000 µg/mL	98.9%	2010 µg/mL	± 50 µg/mL
bis(2-Chloroethoxy)methane	111-91-1	2000 µg/mL	97%	2001 µg/mL	± 50 µg/mL
bis(2-Chloroethyl)ether	111-44-4	2000 µg/mL	99%	2002 µg/mL	± 50 µg/mL
Bis(2-Ethylhexyl)phthalate	117-81-7	2000 µg/mL	99%	2003 µg/mL	± 50 µg/mL
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Hexachloroethane	67-72-1	2000 µg/mL	98%	2003 µg/mL	± 50 µg/mL
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N-Nitrosodi-n-propylamine	621-64-7	2000 µg/mL	98%	2000 µg/mL	± 50 µg/mL
N-Nitrosodiphenylamine	86-30-6	2000 µg/mL	97%	2001 µg/mL	± 50 µg/mL
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K004542

Certificate of Reference Material

Catalog Number: ECS-A-030 **Lot No.** AA210126005

Description: Base/Neutrals Mix 1

Matrix: Methylene Chloride

Manufactured Date: 1-26-2021

Expiration Date: 1-26-2024

Final Solution Verification:

Final solution integrity verified by Gas Chromatography/Mass Spectrometry. The mass spectrum of each compound was confirmed against the NIST mass spectral database.

† Certified concentration based on gravimetric weights and corrected for the purity of the compound(s) used to prepare the standard. Analytical balance calibration is verified daily with C1 weight set #23-190006 which is registered with Atlantic Scale, and traceable to NIST and NJ Division of Weights and Measures.

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Date of Certification: 1-26-2021 Certifying Officer: Shannon Nave

Report of Certification

Catalog Number: ECS-A-030 **Lot No.** AA210126005

Description: Base/Neutrals Mix 1

Matrix: Methylene Chloride

Manufactured Date: 1-26-2021

Expiration Date: 1-26-2024

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- Guide to the Expression of Uncertainty in Measurement 1997
- EURACHEM/CITAC Guide: Qualifying Uncertainty in Analytical Measurements - Second Edition
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Method of Preparation:

Clean laboratory procedures and techniques have been used throughout the preparation. All materials, equipment, and analytical instrumentation have been qualified prior to use. The highest purity solvents and Class A / calibrated volumetrics have been been used in all preparations.

Homogeneity:

The homogeneity of this CRM has been confirmed by procedures consistent with ISO 17025:2005, ISO Guide 34:2009, and ASTM D6362-98 Appendix X2. Random, replicate samples of the final, packaged material have been analyzed to prove homogeneity in accordance with our internal procedure 4300-HOMOGEN-1A. This is consistent with the intended use of this CRM. The Degree of Homogeneity, as expressed as maximum between-bottle variation, is 1.2%

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- $U = ku_c$ where k=2 is the coverage factor at the 95% confidence level
- u_c = combined standard uncertainty obtained by combining the individual compound standard uncertainty components u_i where $u_c = \sqrt{\sum u_i^2}$

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Accredited to 17025 & Guide 34 ISO Certified to 9001

Agilent

Certificate of Analysis

Product Name: Toxic Substances Standard

Product Number: US-104N-1 **Lot Issue Date:** 02-Jul-2021

Lot Number: 0006620643 **Expiration Date:** 31-Jul-2023

Description:
This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	Concentration ± Uncertainty
aniline	000062-53-3	RM12853	2005 ± 10 µg/mL
benzyl alcohol	000100-51-6	RM10547	2004 ± 10 µg/mL
4-chloroaniline	000106-47-8	RM01886	2002 ± 10 µg/mL
dibenzofuran	000132-64-9	RM02077	2002 ± 10 µg/mL
2-methylnaphthalene	000091-57-6	RM01258	2006 ± 10 µg/mL
2-nitroaniline	000088-74-4	RM02402	2003 ± 10 µg/mL
3-nitroaniline	000099-09-2	RM02424	2003 ± 10 µg/mL
4-nitroaniline	000100-01-6	RM02425	2003 ± 10 µg/mL

Matrix: methylene chloride (dichloromethane)

Storage Conditions: Store at Room Temperature (15° to 30°C).

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:
This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

K004544
toxic sub mix#2
Solvent / Lot: methylene chloride
Prep: 5/11/2022 by JZ
Exp: 7/31/2023
Location:

05/11/22

ANAB ACCREDITED ISO17034 REFERENCE MATERIAL PRODUCER
ISO 17034 Cert No. AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026

www.agilent.com/quality/
CSD-QA-015.1

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY
ISO 17025 Cert No. AT-1937

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31493 **Lot No.:** A0181243

Description : CLP 04.1 BNA Surrogate Mix

CLP 04.1 BNA Surrogate Mix 1000-1500 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : October 31, 2025 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

05/11/22

K004545
CLP 04.1 BNA SURR MIX
Solvent / Lot: AO175316
Prep: 5/11/2022 by JZ
Exp: 10/20/2025
Location:

Elution Order	Compound	Gr (weig					
1	2-Fluorophenol **CAS #** 367-12-4 (Lot STBJ2508) **Purity** 99%	1,50					
				+/-	53.3632	µg/mL	Stressed
2	Phenol-d6 **CAS #** 13127-88-3 (Lot PR-31262) **Purity** 99%	1,506.0	µg/mL	+/-	8.9452	µg/mL	Gravimetric
				+/-	43.9882	µg/mL	Unstressed
				+/-	53.3632	µg/mL	Stressed
3	2-Chlorophenol-d4 **CAS #** 93951-73-6 (Lot PR-30568) **Purity** 99%	1,510.0	µg/mL	+/-	8.9689	µg/mL	Gravimetric
				+/-	44.1050	µg/mL	Unstressed
				+/-	53.5049	µg/mL	Stressed
4	1,2-Dichlorobenzene-d4 **CAS #** 2199-69-1 (Lot PR-32542/022621DB1 **Purity** 99%	1,004.0	µg/mL	+/-	5.9635	µg/mL	Gravimetric
				+/-	29.3255	µg/mL	Unstressed
				+/-	35.5754	µg/mL	Stressed
5	Nitrobenzene-d5 **CAS #** 4165-60-0 (Lot PR-29940A) **Purity** 99%	1,008.0	µg/mL	+/-	5.9872	µg/mL	Gravimetric
				+/-	29.4423	µg/mL	Unstressed
				+/-	35.7172	µg/mL	Stressed
6	2-Fluorobiphenyl **CAS #** 321-60-8 (Lot 19169) **Purity** 99%	1,006.0	µg/mL	+/-	5.9753	µg/mL	Gravimetric
				+/-	29.3839	µg/mL	Unstressed
				+/-	35.6463	µg/mL	Stressed
7	2,4,6-Tribromophenol **CAS #** 118-79-6 (Lot MKCJ7664) **Purity** 99%	1,506.0	µg/mL	+/-	8.9452	µg/mL	Gravimetric
				+/-	43.9882	µg/mL	Unstressed
				+/-	53.3632	µg/mL	Stressed

Certificate of Analysis

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.:	AL0-101246	**Lot Number:**	CL17953
Description:	Benzoic Acid	**Certification Date:**	January 31, 2022
Storage:	4 °C	**Expiration Date:**	January 31, 2032
Provided As:	1 mL in 2 mL Ampoule in Methylene Chloride		

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Benzoic acid	65-85-0	2000	± 2.714%

K004603
Benzoic Acid @2000ug/ml
Solvent / Lot: N/A
Prep: 5/13/2022 by JZ
Exp: 1/31/2032
Location: GC

5/13/22

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Certified Reference Material

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Catalog No.: AL0-101244
Description: Benzidines Standard
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Methylene Chloride

Lot Number: CL17662
Certification Date: December 2, 2021
Expiration Date: November 30, 2031

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Benzidine	92-87-5	2000	± 0.211%
3,3'-Dichlorobenzidine	91-94-1	2000	± 1.305%

K004604
Benzidines std @2000ug/ml
Solvent / Lot: Mecl2
Prep: 5/13/2022 by JZ
Exp: 11/30/2031
Location: GC

5/13/22

ACCREDITED
Reference Material Producer
Certicate No. 2427.02

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Phenova is an accredited ISO/IEC 17034 Reference Material Producer and ISO/IEC 17025 accredited Chemical Testing Laboratory.

ACCREDITED
Chemical Testing Laboratory
Certicate No. 2427.03

IL64591018_us

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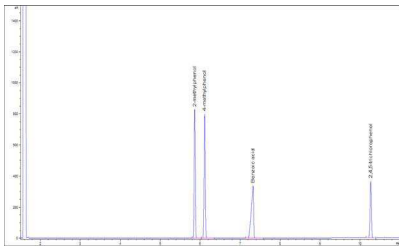
Certificate of Analysis - Certified Reference Material

EPA TCL Hazardous Substances Mix 1

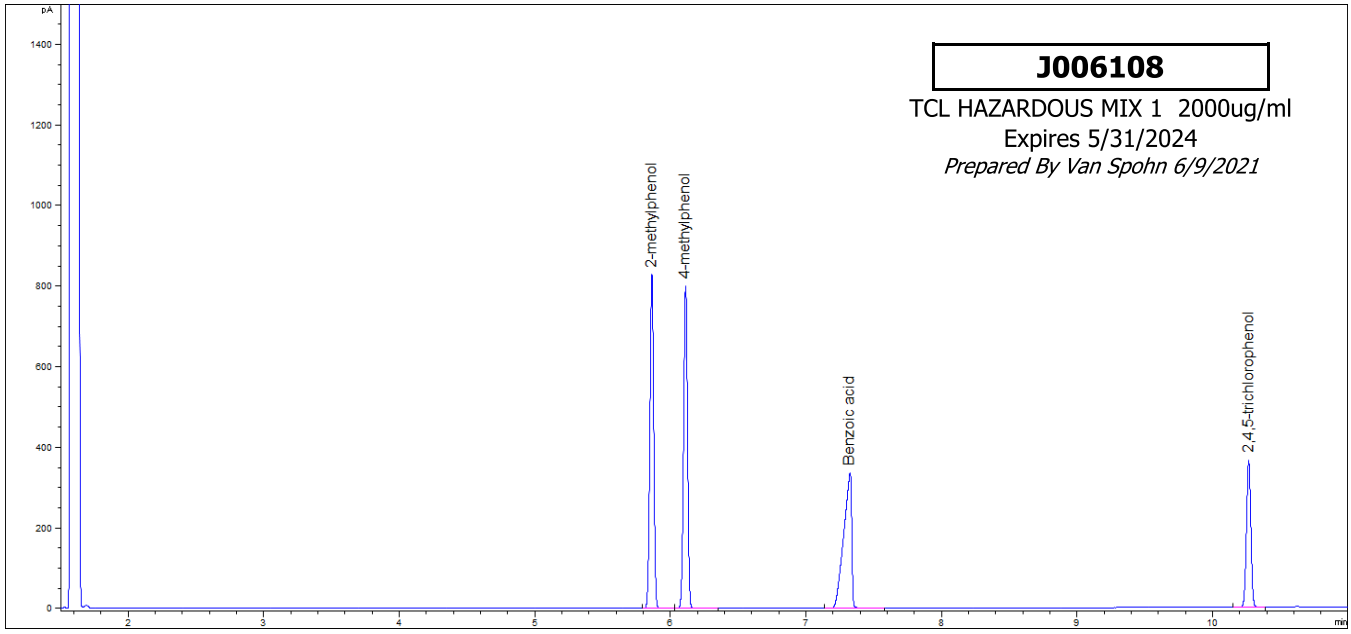
Product no.: 48907
Lot no.: LRAC9610
Expiry Date: May 2024
Manufacturing Date: May 2021
Storage: Refrigerate
Solvent/Matrix: DICHLOROMETHANE
Certificate version: LRAC9610.01 *(Note: Certificates may be updated due to the availability of new data. Check our website at: www.sigma-aldrich.com for the most current version.)*



Certified Values:

Analyte	*Certified Value*	*Units*	*Raw Material Purity,%*	*Elution order*	*Raw Material Lot*
2-METHYLPHENOL CAS# 95-48-7	2004 ± 9	µg/mL	99.0	1	G1735A
4-METHYLPHENOL CAS# 106-44-5	2004 ± 13	µg/mL	98.9	2	06921MG
BENZOIC ACID CAS# 65-85-0	2012 ± 6	µg/mL	99.9	3	LC16514
2,4,5-TRICHLOROPHENOL CAS# 95-95-4	2003 ± 6	µg/mL	99.9	4	JS00008

Informational Values:



Additional Information:
Analytical Method Parameters:
Column: Equity-5, 30 m × 0.53 mm I.D., 1.5 µm film thickness (Column #98)
Carrier Gas: H2, Flow: 4.5 mL/min
Inlet Temperature: 170 °C, Injection Volume: 1 µL
Injection Mode: Split, Split Ratio: 20:1

Sigma-Aldrich RTC, 2931 Soldier Springs Rd. Laramie, WY 82070, USA;
Tel. 1 307-742-5452; Fax 1 855-831-9211; www.sigmaaldrich.com
Sigma-Aldrich RTC is a subsidiary of Merck KGaA, Darmstadt, Germany.

Temperature Program: 80 °C @ 10 °C/min to 190 °C (Hold 5 min)
Detector: FID
Detector Temperature: 310 °C

Metrological traceability: Traceable to the SI and higher order standards from NIST through an unbroken chain of comparisons. The balance used to weigh raw materials is accurate to +/-0.0001 g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.

Measurement method: Where applicable, the assigned value is based on a purity determination by mass balance and gravimetrically prepared value.

Intended use: Intended for R&D and Analytical Use only. Not for drug, household or other uses.

Packaging: 1 mL in amber ampule

Instructions for handling and correct use: Use on the as is basis. The internal pressure of the container may be slightly different from the atmospheric pressure at the user`s location. Open slowly and carefully to avoid dispersion of the material.

Health and safety information: All chemical reference materials should be considered potentially hazardous and should be used only by qualified laboratory personnel. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.

Accreditation: Sigma-Aldrich RTC is accredited by the US accreditation authority ANAB as a registered reference material producer AR-1470 in accordance with ISO 17034.

Certificate issue date: 20-May-2021

Andy Ommen - QC Manager

Mark Pooler - QA Supervisor

Details on metrological traceability: This standard has been gravimetrically prepared using balances that have been fully qualified and calibrated to ISO 17025 requirements. All calibrations utilize NIST traceable weights which are calibrated externally by a qualified ISO 17025 accredited calibration laboratory to NIST standards. Qualification of each balance includes the assignment of a minimum weighing by a qualified and ISO 17025 accredited calibration vendor taking into consideration the balance and installed environmental conditions to ensure compliance with USP tolerances of NMT 0.10% relative error. Fill volume to predetermined specifications is gravimetrically verified throughout the dispensing process using qualified and calibrated balances. Further traceability to a corresponding Primary Standard may be achieved through a direct comparison assay. Where a Primary Standard is available, the assay value will be included in the specified section of the COA.

Associated uncertainty: Ucrm - Uncertainty values in this document are expressed as Expanded Uncertainty (Ucrm) corresponding to the 95% confidence interval. Ucrm is derived from the combined standard uncertainty multiplied by the coverage factor k, which is obtained from a *t*-distribution and degrees of freedom. The components of combined standard uncertainty include the uncertainties due to characterization, homogeneity, long term stability, and short term stability (transport). The components due to stability are generally considered to be negligible unless otherwise indicated by stability studies. The mathematical representation of the Ucrm calculation is as follows:

$$u_{CRM} = \sqrt{u_{char}^2 + u_{\text{hom}\ ogeneity}^2 + u_{stability}^2}$$

Homogeneity assessment: Homogeneity was assessed in accordance with ISO Guide 35. Completed units were sampled using a random stratified sampling protocol. The results of chemical analysis were then compared by Single Factor Analysis of Variance (ANOVA). The uncertainty due to homogeneity was derived from the ANOVA. Heterogeneity was not detected under the conditions of the ANOVA.

Stability assessment: Significance of the stability assessment will be demonstrated if the analytical result of the study and the range of values represented by the Expanded Uncertainty do not overlap the result of the original assay and the range of its values represented by the Expanded Uncertainty. The method employed will usually be the same method used to characterize the assay value in the initial

Certificate of analysis revision history:

Certificate version	Date	Reason for version
LRAC9610.01	20-May-2021	Original Release Date

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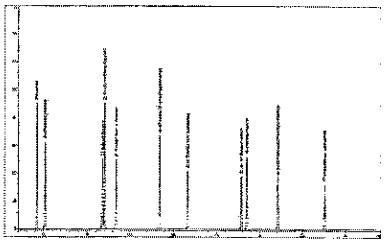
Certificate of Analysis - Certified Reference Material

EPA TCL Phenols Mix

Product no.: 48904
Lot no.: LRAD0139
Expiry Date: July 2024
Manufacturing Date: July 2021
Storage: REFRIGERATE
Solvent/Matrix: DICHLOROMETHANE
Certificate version: LRAD0139.01 *(Note: Certificates may be updated due to the availability of new data. Check our website at: www.sigma-aldrich.com for the most current version.)*



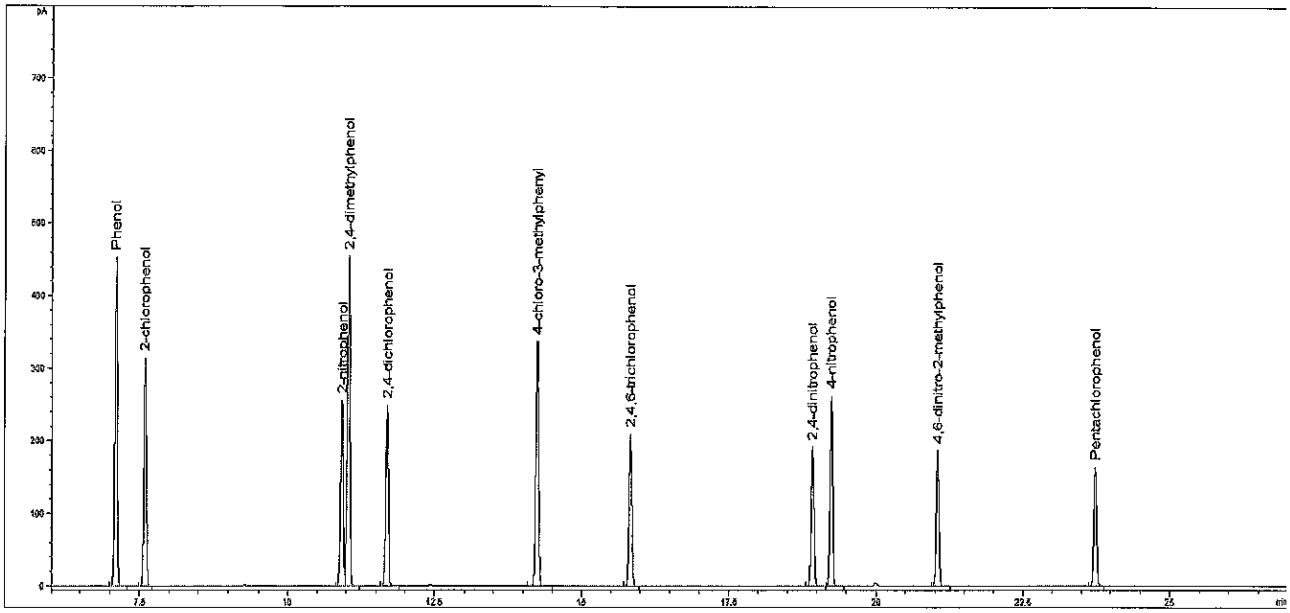
Certified Values:

Analyte	*Certified Value*	*Units*	*Raw Material Purity,%*	*Raw Material Lot*
2-CHLOROPHENOL CAS# 95-57-8	2001 ± 25	µg/mL	99.9	STBG3033V
2-NITROPHENOL CAS# 88-75-5	1999 ± 18	µg/mL	99.3	15905BB
2,4-DIMETHYLPHENOL CAS# 105-67-9	2000 ± 14	µg/mL	99.2	05421CO
2,4-DICHLOROPHENOL CAS# 120-83-2	2000 ± 17	µg/mL	99.5	03221TN
4-CHLORO-3-METHYLPHENOL CAS# 59-50-7	2000 ± 5	µg/mL	99.9	JS00013
2,4,6-TRICHLOROPHENOL CAS# 88-06-2	2002 ± 5	µg/mL	99.5	04212PS
2,4-DINITROPHENOL CAS# 51-28-5	2000 ± 28	µg/mL	66.9	STBJ5751
4-NITROPHENOL CAS# 100-02-7	2000 ± 33	µg/mL	99.0	04628LT
2-METHYL-4,6-DINITROPHENOL CAS# 534-52-1	2000 ± 27	µg/mL	99.7	LC18338
PENTACHLOROPHENOL CAS# 87-86-5	1999 ± 25	µg/mL	97.9	MKCD2150

ASSAY Method

J013597
TCL Phenols Mix 2000ug/ml
Solvent / Lot: LRAD0139
Prep: 12/30/2021 by VS
Exp: 7/31/2024
Location:

Sigma-Aldrich RTC, 2931 Soldier Springs Rd. Laramie, WY 82070, USA;
Tel. 1 307-742-5452; Fax 1 855-831-9211; www.sigmaaldrich.com
Sigma-Aldrich RTC is a subsidiary of Merck KGaA, Darmstadt, Germany.



METHOD: GC (Bellefonte Method)

Column: SPB-5, 30 m × 0.53 mm I.D., 1.5 µm film thickness
Carrier Gas: H_2 Flow Rate: 4.5 mL/min
Inlet Temperature: 200 °C Injection Volume: 1.0 µL
Injection Mode: 25:1
Temperature Program: 80 °C (Hold 2 min) @ 6 °C/min to 260 °C (Hold 5 min)
Detector: FID Temperature: 310 °C

Elution details:

EO	RT(MIN)	ANALYTE
1	7.095	Phenol
2	7.585	2-chlorophenol
3	10.925	2-nitrophenol
4	11.037	2,4-dimethylphenol
5	11.696	2,4-dichlorphenol
6	14.242	4-chloro-3-m3thylphenol
7	15.842	2,4,6-trichlorophenol
8	18.93	2,4-dinitrophenol
9	19.25	4-nitrophenol
10	21.05	4,6-dinitro-2-methylphenol
11	23.752	Pentachlorophenol

Metrological traceability: Traceable to the SI and higher order standards from NIST through an unbroken chain of comparisons. The balance used to weigh raw materials is accurate to +/-0.0001 g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.

Measurement method: Where applicable, the assigned value is based on a purity determination by mass balance and gravimetrically prepared value.

Intended use: Intended for R&D and Analytical Use only. Not for drug, household or other uses.

Packaging: 1 mL in amber ampule

Instructions for handling and correct use: Use on the as is basis. The internal pressure of the container may be slightly different from the atmospheric pressure at the user`s location. Open slowly and carefully to avoid dispersion of the material.

Health and safety information: All chemical reference materials should be considered potentially hazardous and should be used only by qualified laboratory personnel. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.

Accreditation: Sigma-Aldrich RTC is accredited by the US accreditation authority ANAB as a registered reference material producer AR-1470 in accordance with ISO 17034.

Certificate issue date: 12-Jul-2021

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

Andy Ommen - QC Manager

Mark Pooler - QA Supervisor

Details on metrological traceability: This standard has been gravimetrically prepared using balances that have been fully qualified and calibrated to ISO 17025 requirements. All calibrations utilize NIST traceable weights which are calibrated externally by a qualified ISO 17025 accredited calibration laboratory to NIST standards. Qualification of each balance includes the assignment of a minimum weighing by a qualified and ISO 17025 accredited calibration vendor taking into consideration the balance and installed environmental conditions to ensure compliance with USP tolerances of NMT 0.10% relative error. Fill volume to predetermined specifications is gravimetrically verified throughout the dispensing process using qualified and calibrated balances. Further traceability to a corresponding Primary Standard may be achieved through a direct comparison assay. Where a Primary Standard is available, the assay value will be included in the specified section of the COA.

Associated uncertainty: Ucrm - Uncertainty values in this document are expressed as Expanded Uncertainty (Ucrm) corresponding to the 95% confidence interval. Ucrm is derived from the combined standard uncertainty multiplied by the coverage factor k, which is obtained from a *t*-distribution and degrees of freedom. The components of combined standard uncertainty include the uncertainties due to characterization, homogeneity, long term stability, and short term stability (transport). The components due to stability are generally considered to be negligible unless otherwise indicated by stability studies. The mathematical representation of the Ucrm calculation is as follows:

$$u_{CRM} = \sqrt{u_{char}^2 + u_{hom\ ogeneity}^2 + u_{stability}^2}$$

Homogeneity assessment: Homogeneity was assessed in accordance with ISO Guide 35. Completed units were sampled using a random stratified sampling protocol. The results of chemical analysis were then compared by Single Factor Analysis of Variance (ANOVA). The uncertainty due to homogeneity was derived from the ANOVA. Heterogeneity was not detected under the conditions of the ANOVA.

Stability assessment: Significance of the stability assessment will be demonstrated if the analytical result of the study and the range of values represented by the Expanded Uncertainty do not overlap the result of the original assay and the range of its values represented by the Expanded Uncertainty. The method employed will usually be the same method used to characterize the assay value in the initial

Certificate of analysis revision history:

Certificate version	Date	Reason for version
LRAD0139.01	12-Jul-2021	Original Release Date

Disclaimer: The purchaser is required to determine the suitability of this product for any particular application. Sigma-Aldrich RTC makes no warranty of any kind, express or implied, other than its products meet all quality control standards set by Sigma-Aldrich RTC. We do not guarantee that the product can be used for any particular application.

The life science business of Merck KGaA, Darmstadt, Germany operates as MilliporeSigma in the US and Canada.

Certificate of Analysis

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Certified Reference Material

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Catalog No.: AL0-101444
Description: 8270 Calibration Standard
Storage: -18 °C
Provided As: 1 mL in 2 mL Ampoule in MeCl2/Methanol (97:3)

Lot Number: CL18355
Certification Date: July 25, 2022
Expiration Date: August 31, 2023

K007995
SVOA-8270 LCS MIX 1000ug/ml
Solvent / Lot: N/A
Prep: 8/29/2022 by JZ
Exp: 8/31/2023
Location: FREEZER 44

Aaron Dukes, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Acenaphthene	83-32-9	1000	± 0.300%
Acenaphthylene	208-96-8	1000	± 0.225%
Anthracene	120-12-7	1000	± 6.858%
Azobenzene	103-33-3	1000	± 0.224%
Benzo(a)anthracene	56-55-3	1000	± 0.247%
Benzo(a)pyrene	50-32-8	1000	± 0.270%
Benzo(b)fluoranthene	205-99-2	1000	± 0.635%
Benzo(k)fluoranthene	207-08-9	1000	± 0.682%
Benzo(g,h,i)perylene	191-24-2	1000	± 0.272%
Benzyl alcohol	100-51-6	1000	± 0.231%
Benzyl butyl phthalate	85-68-7	1000	± 0.480%
bis(2-Chloroethoxy)methane	111-91-1	1000	± 0.479%
bis(2-Chloroethyl) ether	111-44-4	1000	± 0.479%
bis(2-Chloroisopropyl) ether	108-60-1	1000	± 0.550%
bis(2-Ethylhexyl) adipate	103-23-1	1000	± 0.479%
bis(2-Ethylhexyl) phthalate	117-81-7	1000	± 0.479%
4-Bromophenyl phenyl ether	101-55-3	1000	± 0.479%
Carbazole	86-74-8	1000	± 0.146%

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101444
Lot Number: CL18355
Description: 8270 Calibration Standard
Certification Date: July 25, 2022
Storage: -18 °C
Expiration Date: August 31, 2023
Provided As: 1 mL in 2 mL Ampoule in MeCl2/Methanol (97:3)

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
4-Chloroaniline	106-47-8	1000	± 0.300%
4-Chloro-3-methylphenol	59-50-7	1000	± 0.545%
2-Chloronaphthalene	91-58-7	1000	± 0.224%
2-Chlorophenol	95-57-8	1000	± 0.507%
4-Chlorophenyl phenyl ether	7005-72-3	1000	± 0.479%
Chrysene	218-01-9	1000	± 0.145%
Dibenz(a,h)anthracene	53-70-3	1000	± 1.058%
Dibenzofuran	132-64-9	1000	± 0.302%
Di-n-butyl phthalate	84-74-2	1000	± 0.518%
1,2-Dichlorobenzene	95-50-1	1000	± 0.247%
1,3-Dichlorobenzene	541-73-1	1000	± 0.225%
1,4-Dichlorobenzene	106-46-7	1000	± 0.224%
2,4-Dichlorophenol	120-83-2	1000	± 0.545%
Diethyl phthalate	84-66-2	1000	± 0.518%
2,4-Dimethylphenol	105-67-9	1000	± 0.507%
Dimethyl phthalate	131-11-3	1000	± 0.518%
1,2-Dinitrobenzene	528-29-0	1000	± 0.361%
1,3-Dinitrobenzene	99-65-0	1000	± 0.300%
1,4-Dinitrobenzene	100-25-4	1000	± 0.242%
2,4-Dinitrophenol	51-28-5	1000	± 0.545%
2,4-Dinitrotoluene	121-14-2	1000	± 1.128%

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101444
Lot Number: CL18355
Description: 8270 Calibration Standard
Certification Date: July 25, 2022
Storage: -18 °C
Expiration Date: August 31, 2023
Provided As: 1 mL in 2 mL Ampoule in MeCl2/Methanol (97:3)

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
2,6-Dinitrotoluene	606-20-2	1000	± 0.224%
Di-n-octyl phthalate	117-84-0	1000	± 0.486%
Fluoranthene	206-44-0	1000	± 0.224%
Fluorene	86-73-7	1000	± 0.224%
Hexachlorobenzene	118-74-1	1000	± 0.152%
Hexachlorobutadiene	87-68-3	1000	± 0.746%
Hexachlorocyclopentadiene	77-47-4	1000	± 0.153%
Hexachloroethane	67-72-1	1000	± 0.300%
Indeno(1,2,3-cd)pyrene	193-39-5	1000	± 0.883%
Isophorone	78-59-1	1000	± 0.145%
2-Methyl-4,6-dinitrophenol	534-52-1	1000	± 0.508%
1-Methylnaphthalene	90-12-0	1000	± 0.479%
2-Methylnaphthalene	91-57-6	1000	± 0.487%
2-Methylphenol	95-48-7	1000	± 0.545%
3-Methylphenol	108-39-4	500	± 0.279%
4-Methylphenol	106-44-5	500	± 0.399%
Naphthalene	91-20-3	1000	± 0.226%
2-Nitroaniline	88-74-4	1000	± 0.224%
3-Nitroaniline	99-09-2	1000	± 0.235%
4-Nitroaniline	100-01-6	1000	± 0.300%
Nitrobenzene	98-95-3	1000	± 0.300%

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101444
Lot Number: CL18355
Description: 8270 Calibration Standard
Certification Date: July 25, 2022
Storage: -18 °C
Expiration Date: August 31, 2023
Provided As: 1 mL in 2 mL Ampoule in MeCl2/Methanol (97:3)

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
2-Nitrophenol	88-75-5	1000	± 0.514%
4-Nitrophenol	100-02-7	1000	± 0.519%
N-Nitrosodimethylamine	62-75-9	1000	± 0.503%
N-Nitrosodiphenylamine	86-30-6	1000	± 0.476%
N-Nitrosodi-n-propylamine	621-64-7	1000	± 0.461%
Pentachlorophenol	87-86-5	1000	± 0.202%
Phenanthrene	85-01-8	1000	± 0.145%
Phenol	108-95-2	1000	± 0.545%
Pyrene	129-00-0	1000	± 0.147%
Pyridine	110-86-1	1000	± 0.503%
2,3,4,6-Tetrachlorophenol	58-90-2	1000	± 0.247%
2,3,5,6-Tetrachlorophenol	935-95-5	1000	± 0.247%
1,2,4-Trichlorobenzene	120-82-1	1000	± 0.224%
2,4,5-Trichlorophenol	95-95-4	1000	± 0.507%
2,4,6-Trichlorophenol	88-06-2	1000	± 0.509%

Notes: The proper chemical name for Bis(2-Chloroiospropyl) ether is 2,2'-oxybis(1-chloropropane). The analytical uncertainty contribution to the expanded uncertainty for 3 and 4-Methylphenol is measured as the total of the two analytes. N-Nitrosodiphenylamine presents as Diphenylamine at 854 µg/mL.

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1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31[1] and ISO Guide 35.[2]

2. Quality Standards: Phenova is accredited by A2LA to ISO 17034[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.

4. Handling and Usage Notes: Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

   Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.

12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

[1] ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
[3] ISO 17034 – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

Certificate of Composition - Analytical Standard

BASE STOCK

Product no.: 22523051
Lot no.: LRAD2751
Expiry Date: June 2024
Manufacturing Date: June 2022
Storage: REFRIGERATE
Solvent/Matrix: DICHLOROMETHANE
Certificate version: LRAD2751.01 (*Note: Certificates may be updated due to the availability of new data. Check our website at: www.sigma-aldrich.com for the most current version.)*

Analyte	*Assigned Value*	*Units*	*Raw Material Purity,%*	*Raw Material Lot*
3,3'-DICHLOROBENZIDINE, 100MG, NEAT CAS# 91-94-1	799	µg/mL	99.8	LRAD2376
2,4-DINITROTOLUENE CAS# 121-14-2	801	µg/mL	97.8	LB46632
2,6-DINITROTOLUENE CAS# 606-20-2	800	µg/mL	99.2	11231AN
HEXACHLOROCYCLOPENTADIENE CAS# 77-47-4	800	µg/mL	96.0	LB95525
N-NITROSODIMETHYLAMINE CAS# 62-75-9	800	µg/mL	95.0	2019-030598 5
PERYLENE CAS# 198-55-0	200	µg/mL	99.6	04101PG
ANILINE CAS# 62-53-3	800	µg/mL	99.9	LA41596
4-CHLOROANILINE CAS# 106-47-8	800	µg/mL	100.0	MKBZ6909V
2-NITROANILINE CAS# 88-74-4	799	µg/mL	99.9	07411KN
3-NITROANILINE CAS# 99-09-2	800	µg/mL	99.9	LC09264
4-NITROANILINE CAS# 100-01-6	800	µg/mL	99.9	15609AA
PYRIDINE (LOW WATER) CAS# 110-86-1	800	µg/mL	100.0	SHBJ9218

Measurement method: Where applicable, the assigned value is based on a purity determination by mass balance and gravimetrically prepared value.

Intended use: Intended for R&D and Analytical Use only. Not for drug, household or other uses.

Packaging: 1 mL in amber ampule

Instructions for handling and correct use: Use on the as is basis. The internal pressure of the container may be slightly different from the atmospheric pressure at the user`s location. Open slowly and carefully to avoid dispersion of the material.

Sigma-Aldrich RTC, 2931 Soldier Springs Rd. Laramie, WY 82070, USA;
Tel. 1 307-742-5452; Fax 1 855-831-9211; www.sigmaaldrich.com
Sigma-Aldrich RTC is a subsidiary of Merck KGaA, Darmstadt, Germany.

Health and safety information: All chemical reference materials should be considered potentially hazardous and should be used only by qualified laboratory personnel. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.

Certificate issue date: 03 JUN 2022

Andy Ommen - QC Manager

Scott Stetler - QA Manager

Certificate of analysis revision history:

Certificate version	Date	Reason for version
LRAD2751.01	03 JUN 2022	Original Release Date

Disclaimer: The purchaser is required to determine the suitability of this product for any particular application. Sigma-Aldrich RTC makes no warranty of any kind, express or implied, other than its products meet all quality control standards set by Sigma-Aldrich RTC. We do not guarantee that the product can be used for any particular application.

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Certificate of Composition - Analytical Standard

ACID STOCK

Product no.: 22523046
Lot no.: LRAD2750
Expiry Date: June 2024
Manufacturing Date: June 2022
Storage: REFRIGERATE
Solvent/Matrix: DICHLOROMETHANE
Certificate version: LRAD2750.01 (*Note: Certificates may be updated due to the availability of new data. Check our website at: www.sigma-aldrich.com for the most current version.)*

Analyte	*Assigned Value*	*Units*	*Raw Material Purity,%*	*Raw Material Lot*
2,4-DIMETHYLPHENOL CAS# 105-67-9	800	µg/mL	99.9	LB88935
2,4-DICHLOROPHENOL CAS# 120-83-2	800	µg/mL	100.0	BCBZ6787
2,4,5-TRICHLOROPHENOL CAS# 95-95-4	801	µg/mL	99.9	JS00008
2,4-DINITROPHENOL CAS# 51-28-5	1799	µg/mL	66.9	STBJ5751
2,4,6-TRICHLOROPHENOL CAS# 88-06-2	800	µg/mL	98.7	LB82983
4-CHLORO-3-METHYLPHENOL CAS# 59-50-7	800	µg/mL	100.0	BCCD4461
4-NITROPHENOL CAS# 100-02-7	800	µg/mL	100.0	MKCN1089
2-METHYL-4,6-DINITROPHENOL CAS# 534-52-1	1800	µg/mL	100.0	BCBX5762
PENTACHLOROPHENOL CAS# 87-86-5	800	µg/mL	99.0	23614-01
BENZOIC ACID CAS# 65-85-0	1800	µg/mL	99.9	LC16514

Measurement method: Where applicable, the assigned value is based on a purity determination by mass balance and gravimetrically prepared value.

Intended use: Intended for R&D and Analytical Use only. Not for drug, household or other uses.

Packaging: 1 mL in amber ampule

Instructions for handling and correct use: Use on the as is basis. The internal pressure of the container may be slightly different from the atmospheric pressure at the user`s location. Open slowly and carefully to avoid dispersion of the material.

Health and safety information: All chemical reference materials should be considered potentially hazardous and should be used only by qualified laboratory personnel. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.

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Tel. 1 307-742-5452; Fax 1 855-831-9211; www.sigmaaldrich.com
Sigma-Aldrich RTC is a subsidiary of Merck KGaA, Darmstadt, Germany.

Certificate issue date: 03 JUN 2022

Andy Ommen - QC Manager

Scott Stetler - QA Manager

Certificate of analysis revision history:

Certificate version	Date	Reason for version
LRAD2750.01	03 JUN 2022	Original Release Date

Disclaimer: The purchaser is required to determine the suitability of this product for any particular application. Sigma-Aldrich RTC makes no warranty of any kind, express or implied, other than its products meet all quality control standards set by Sigma-Aldrich RTC. We do not guarantee that the product can be used for any particular application.

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101244
Description: Benzidines Standard
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Methylene Chloride

Lot Number: CL18939
Certification Date: September 7, 2022
Expiration Date: August 31, 2032

Aaron Dukes, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Benzidine	92-87-5	2000	± 3.812%
3,3'-Dichlorobenzidine	91-94-1	2000	± 1.419%

L001288
Benzidines std @2000ug/ml
Solvent / Lot: CL18939
Prep: 2/7/2023 by VS
Exp: 8/31/2032
Location: GC

ACCREDITED
Reference Material Producer
Certicate No. 2427.02

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ACCREDITED
Chemical Testing Laboratory
Certicate No. 2427.03

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101443
Description: Aniline
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Methylene Chloride

Lot Number: CL18741
Certification Date: July 21, 2022
Expiration Date: July 31, 2030

Aaron Dukes, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aniline	62-53-3	1000	± 1.719%

L001290
Anline-1000ug/mL
Solvent / Lot: CL18741
Prep: 2/7/2023 by VS
Exp: 7/31/2030
Location: GC

ACCREDITED
Reference Material Producer
Certicate No. 2427.02

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Phenova is an accredited ISO/IEC 17034 Reference Material Producer and ISO/IEC 17025 accredited Chemical Testing Laboratory.

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101444
Description: 8270 Calibration Standard
Storage: -18 °C
Provided As: 1 mL in 2 mL Ampoule in MeCl2/Methanol (97:3)

Lot Number: CL18811
Certification Date: August 9, 2022
Expiration Date: November 30, 2023

Aaron Dukes, Certified Reference Materials Manager

L001291
SVOA-8270 LCS MIX 1000ug/ml
Solvent / Lot: CL18811
Prep: 2/7/2023 by VS
Exp: 11/30/2023
Location: FREEZER 44

Component	CAS #	µg/mL	Expanded Uncertainty
Acenaphthene	83-32-9	1000	± 1.643%
Acenaphthylene	208-96-8	1000	± 1.317%
Anthracene	120-12-7	1000	± 2.136%
Azobenzene	103-33-3	1000	± 1.630%
Benzo(a)anthracene	56-55-3	1000	± 2.372%
Benzo(a)pyrene	50-32-8	1000	± 3.028%
Benzo(b)fluoranthene	205-99-2	1000	± 2.377%
Benzo(k)fluoranthene	207-08-9	1000	± 2.286%
Benzo(g,h,i)perylene	191-24-2	1000	± 2.561%
Benzyl alcohol	100-51-6	1000	± 1.803%
Benzyl butyl phthalate	85-68-7	1000	± 1.855%
bis(2-Chloroethoxy)methane	111-91-1	1000	± 1.626%
bis(2-Chloroethyl) ether	111-44-4	1000	± 1.776%
bis(2-Chloroisopropyl) ether	108-60-1	1000	± 2.406%
bis(2-Ethylhexyl) adipate	103-23-1	1000	± 2.415%
bis(2-Ethylhexyl) phthalate	117-81-7	1000	± 2.350%
4-Bromophenyl phenyl ether	101-55-3	1000	± 1.708%
Carbazole	86-74-8	1000	± 1.844%

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101444
Description: 8270 Calibration Standard
Storage: -18 °C
Provided As: 1 mL in 2 mL Ampoule in MeCl2/Methanol (97:3)

Lot Number: CL18811
Certification Date: August 9, 2022
Expiration Date: November 30, 2023

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
4-Chloroaniline	106-47-8	1000	± 2.831%
4-Chloro-3-methylphenol	59-50-7	1000	± 1.571%
2-Chloronaphthalene	91-58-7	1000	± 2.022%
2-Chlorophenol	95-57-8	1000	± 2.001%
4-Chlorophenyl phenyl ether	7005-72-3	1000	± 1.634%
Chrysene	218-01-9	1000	± 2.358%
Dibenz(a,h)anthracene	53-70-3	1000	± 2.452%
Dibenzofuran	132-64-9	1000	± 0.310%
Di-n-butyl phthalate	84-74-2	1000	± 2.347%
1,2-Dichlorobenzene	95-50-1	1000	± 1.803%
1,3-Dichlorobenzene	541-73-1	1000	± 1.808%
1,4-Dichlorobenzene	106-46-7	1000	± 1.503%
2,4-Dichlorophenol	120-83-2	1000	± 1.393%
Diethyl phthalate	84-66-2	1000	± 1.870%
2,4-Dimethylphenol	105-67-9	1000	± 2.495%
Dimethyl phthalate	131-11-3	1000	± 2.113%
1,2-Dinitrobenzene	528-29-0	1000	± 0.240%
1,3-Dinitrobenzene	99-65-0	1000	± 1.221%
1,4-Dinitrobenzene	100-25-4	1000	± 0.246%
2,4-Dinitrophenol	51-28-5	1000	± 0.519%
2,4-Dinitrotoluene	121-14-2	1000	± 2.242%

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101444
Lot Number: CL18811
Description: 8270 Calibration Standard
Certification Date: August 9, 2022
Storage: -18 °C
Expiration Date: November 30, 2023
Provided As: 1 mL in 2 mL Ampoule in MeCl2/Methanol (97:3)

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
2,6-Dinitrotoluene	606-20-2	1000	± 2.154%
Di-n-octyl phthalate	117-84-0	1000	± 2.670%
Fluoranthene	206-44-0	1000	± 2.103%
Fluorene	86-73-7	1000	± 0.890%
Hexachlorobenzene	118-74-1	1000	± 1.210%
Hexachlorobutadiene	87-68-3	1000	± 1.304%
Hexachlorocyclopentadiene	77-47-4	1000	± 1.510%
Hexachloroethane	67-72-1	1000	± 3.281%
Indeno(1,2,3-cd)pyrene	193-39-5	1000	± 1.921%
Isophorone	78-59-1	1000	± 2.022%
2-Methyl-4,6-dinitrophenol	534-52-1	1000	± 1.661%
1-Methylnaphthalene	90-12-0	1000	± 1.929%
2-Methylnaphthalene	91-57-6	1000	± 2.220%
2-Methylphenol	95-48-7	1000	± 2.168%
3-Methylphenol	108-39-4	500	± 1.025%
4-Methylphenol	106-44-5	500	± 1.064%
Naphthalene	91-20-3	1000	± 1.199%
2-Nitroaniline	88-74-4	1000	± 1.874%
3-Nitroaniline	99-09-2	1000	± 2.146%
4-Nitroaniline	100-01-6	1000	± 0.300%
Nitrobenzene	98-95-3	1000	± 1.704%

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101444
Description: 8270 Calibration Standard
Storage: -18 °C
Provided As: 1 mL in 2 mL Ampoule in MeCl2/Methanol (97:3)

Lot Number: CL18811
Certification Date: August 9, 2022
Expiration Date: November 30, 2023

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
2-Nitrophenol	88-75-5	1000	± 2.051%
4-Nitrophenol	100-02-7	1000	± 1.413%
N-Nitrosodimethylamine	62-75-9	1000	± 0.545%
N-Nitrosodiphenylamine	86-30-6	1000	± 1.669%
N-Nitrosodi-n-propylamine	621-64-7	1000	± 0.712%
Pentachlorophenol	87-86-5	1000	± 2.454%
Phenanthrene	85-01-8	1000	± 2.072%
Phenol	108-95-2	1000	± 2.140%
Pyrene	129-00-0	1000	± 1.869%
Pyridine	110-86-1	1000	± 0.545%
2,3,4,6-Tetrachlorophenol	58-90-2	1000	± 2.552%
2,3,5,6-Tetrachlorophenol	935-95-5	1000	± 2.220%
1,2,4-Trichlorobenzene	120-82-1	1000	± 1.632%
2,4,5-Trichlorophenol	95-95-4	1000	± 1.596%
2,4,6-Trichlorophenol	88-06-2	1000	± 0.481%

Notes: The proper chemical name for Bis(2-Chloroiospropyl) ether is 2,2'-oxybis(1-chloropropane). The analytical uncertainty contribution to the expanded uncertainty for 3 and 4-Methylphenol is measured as the total of the two analytes. N-Nitrosodiphenylamine presents as Diphenylamine at 854 µg/mL.

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1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31[1] and ISO Guide 35.[2]

2. Quality Standards: Phenova is accredited by A2LA to ISO 17034[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.

4. Handling and Usage Notes: Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.

12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

[1] ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
[3] ISO 17034 – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

Analytical Resources, LLC
Analytical Chemists and Consultants

LDW23-SS1000

Form I

ORGANIC ANALYSIS DATA SHEET

EPA 8270E-SIM

SIM SVOC Organics (Dual scan list)

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0071-01 A	SDG:	23C0071
Sampled:	03/02/23 09:33	Prepared:	03/07/23 10:21	File ID:	NT1003212310S.D
% Solids:	46.24	Preparation:	EPA 3546 (Microwave)	Analyzed:	03/21/23 22:56
Batch:	BLC0109	Sequence:	SLC0452	Initial/Final:	21.73 g Wet / 1 mL
Instrument:	NT10	Column:	ZB-5MSi	Calibration:	GC00049
Cleanups:	GPC				

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
106-46-7	1,4-Dichlorobenzene	1	2.4	J	0.6	5.0
95-50-1	1,2-Dichlorobenzene	1	0.8	J	0.7	5.0
100-51-6	Benzyl Alcohol	1	227		2.5	19.9
65-85-0	Benzoic acid	1	329		13.3	99.5
105-67-9	2,4-Dimethylphenol	1	4.2	J	2.2	19.9
120-82-1	1,2,4-Trichlorobenzene	1	5.0	U	2.7	5.0
86-30-6	N-Nitrosodiphenylamine	1	5.0	U	1.3	5.0
87-86-5	Pentachlorophenol	1	11.1	J	2.1	19.9

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorophenol	746.42	455	60.9	27 - 120	
p-Terphenyl-d14	497.61	408	81.9	37 - 120	

Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT10032123108.D

Date : 21-MAR-2023 22:56

Client ID:

Instrument: nt10.i

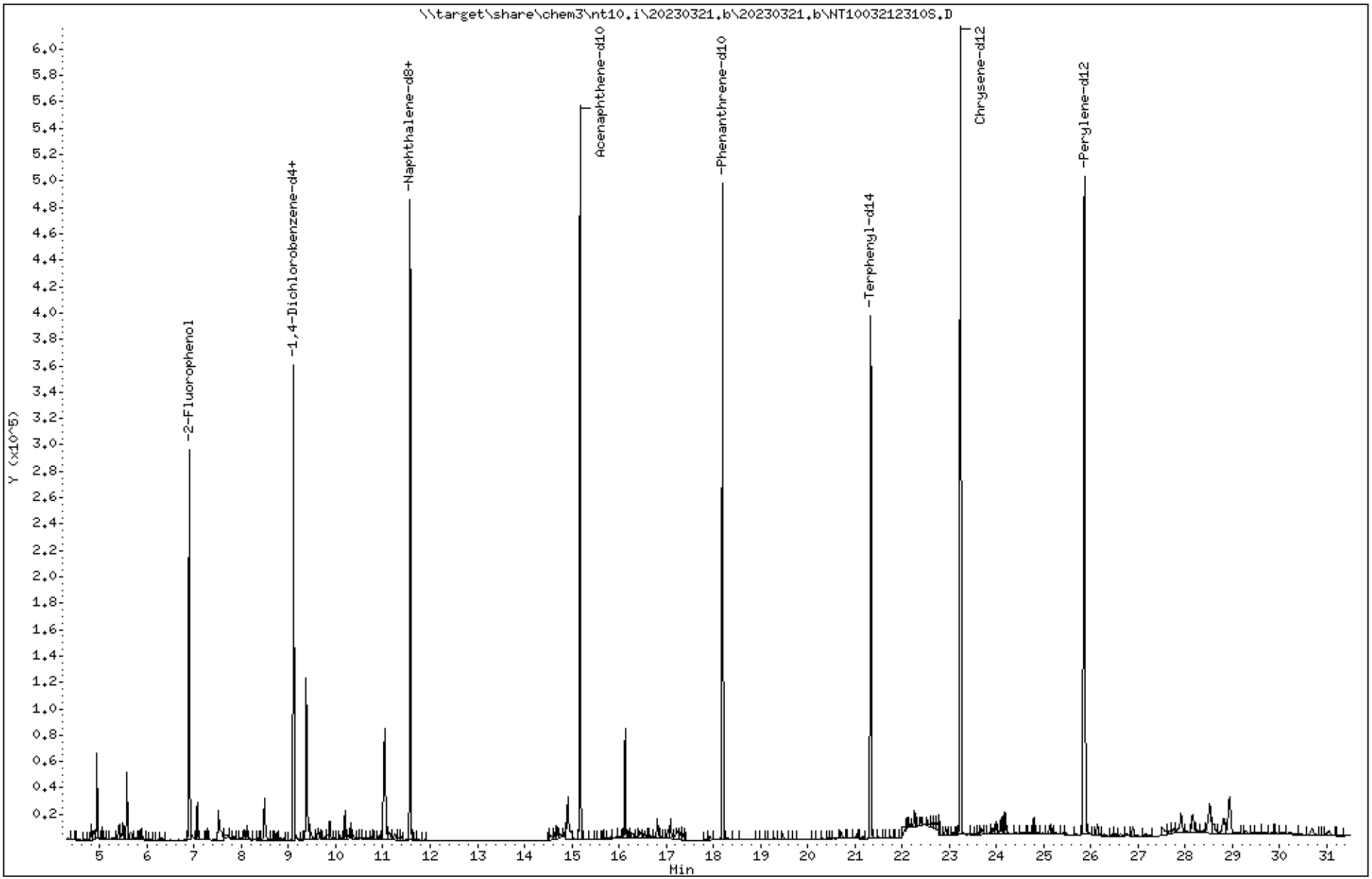
Sample Info: 23C0071-01

Volume Injected (uL): 1.0

Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25



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Date : 21-MAR-2023 22:56

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-01

Volume Injected (uL): 1.0

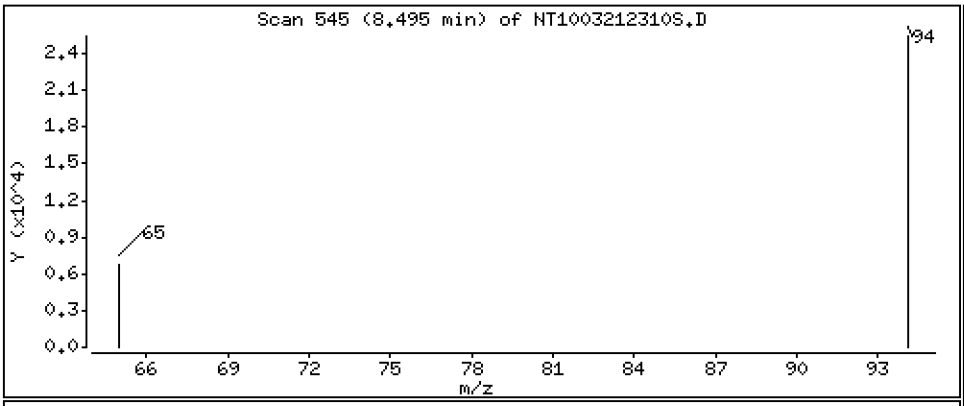
Operator: JGR

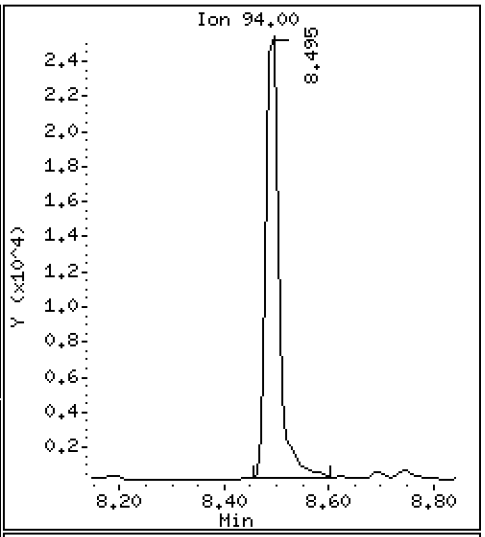
Column phase: ZB-5msi

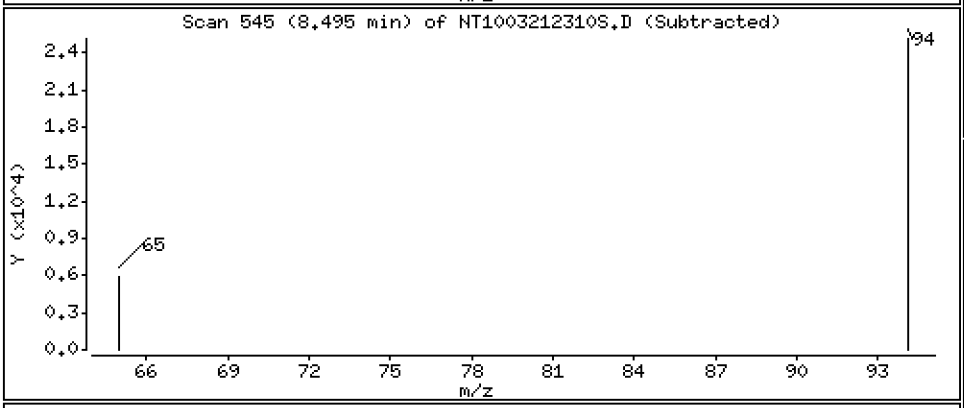
Column diameter: 0.25

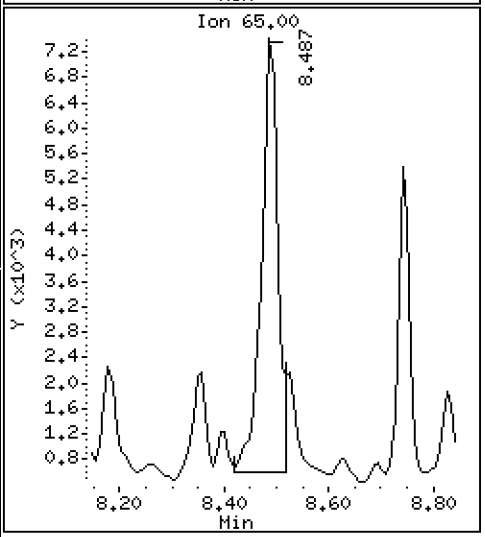
3 Phenol

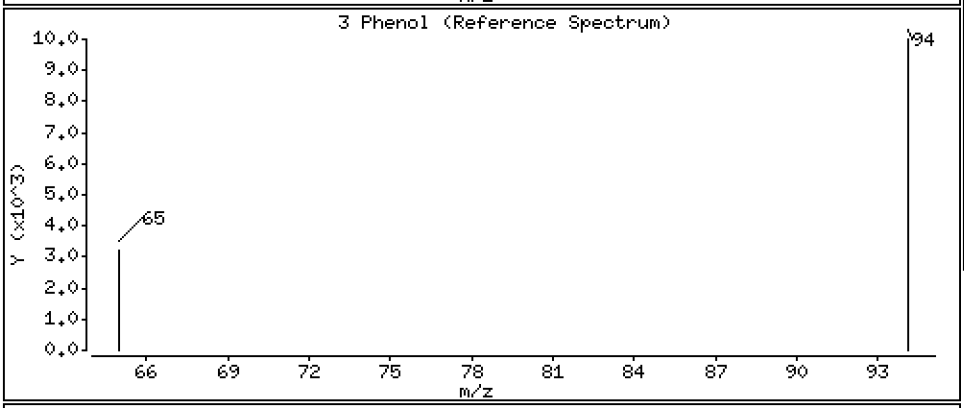
Concentration: 0.4580 ug/L

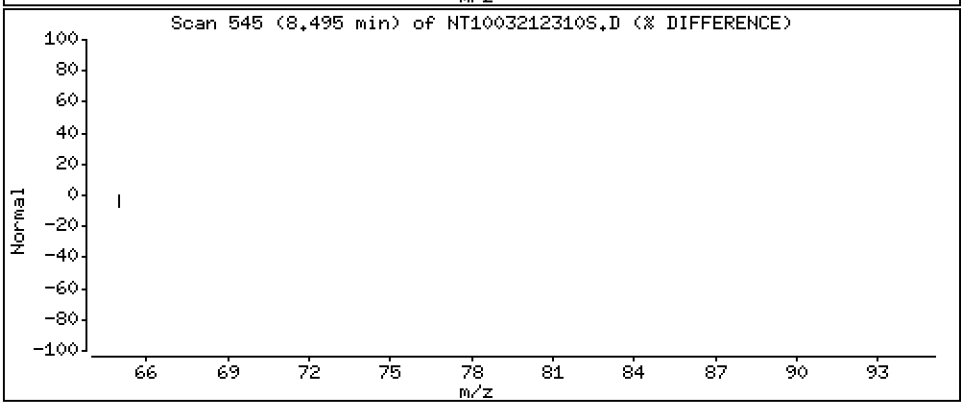












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212310S.D

Date : 21-MAR-2023 22:56

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-01

Volume Injected (uL): 1.0

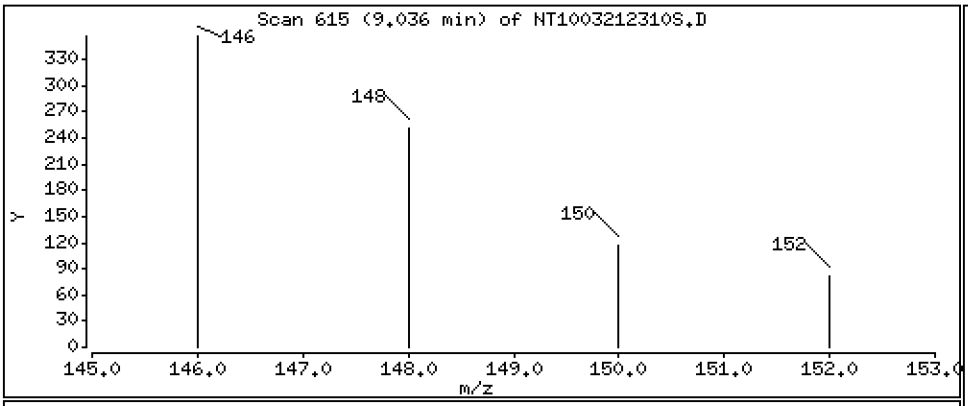
Operator: JGR

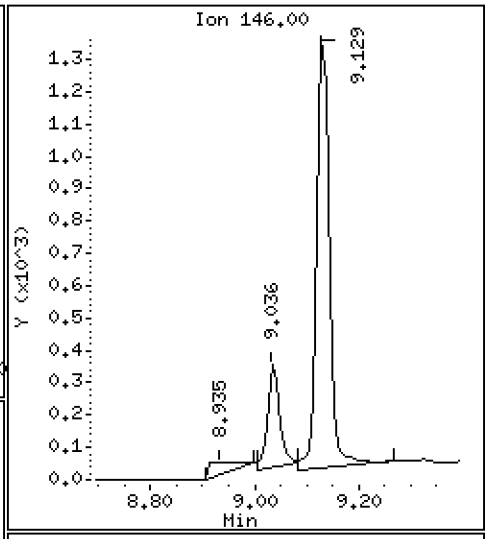
Column phase: ZB-5msi

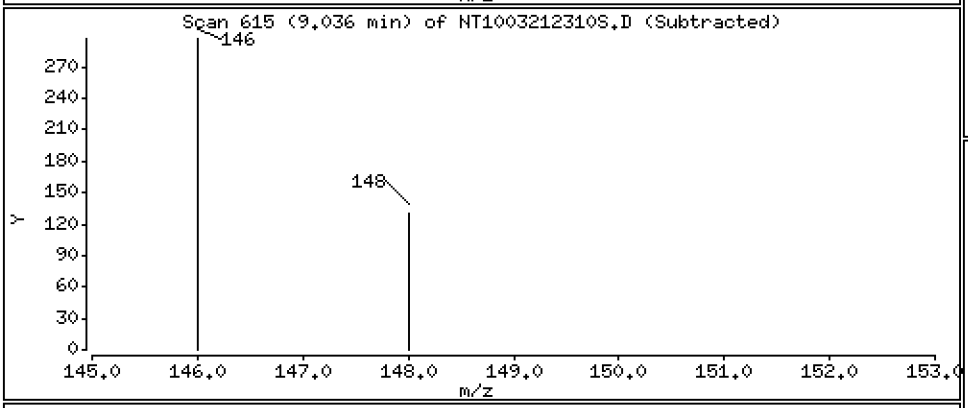
Column diameter: 0.25

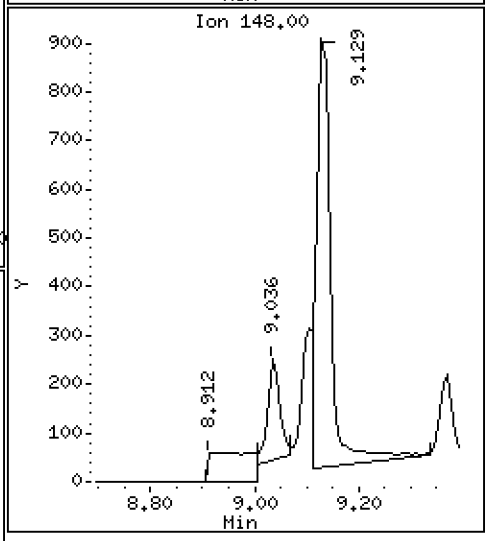
7 1,3-Dichlorobenzene

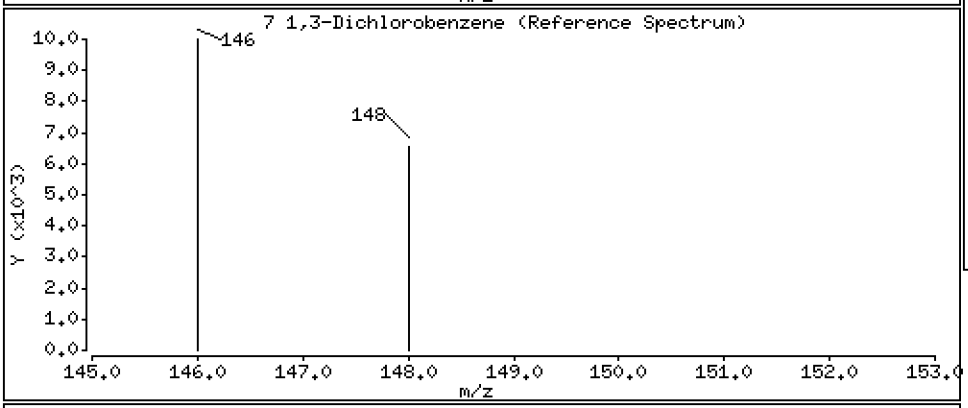
Concentration: 0.005884 ug/L

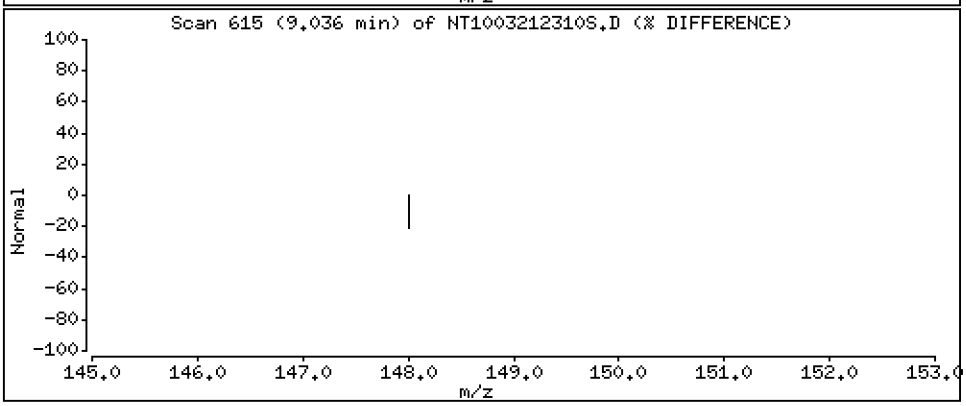












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Date : 21-MAR-2023 22:56

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-01

Volume Injected (uL): 1.0

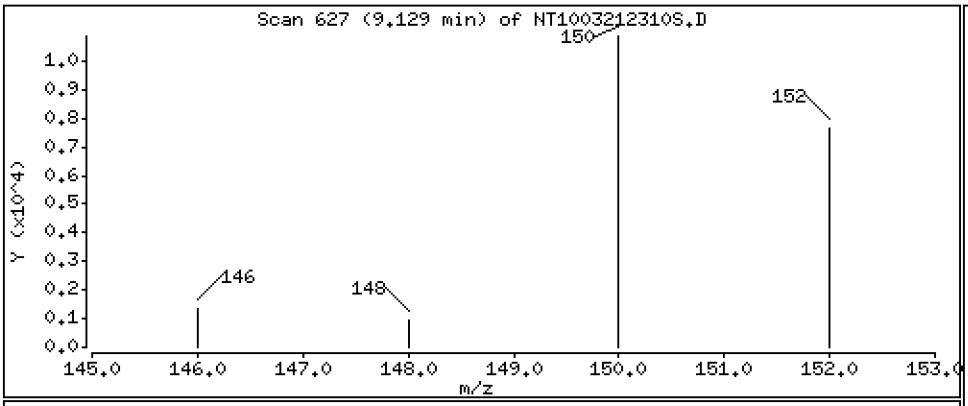
Operator: JGR

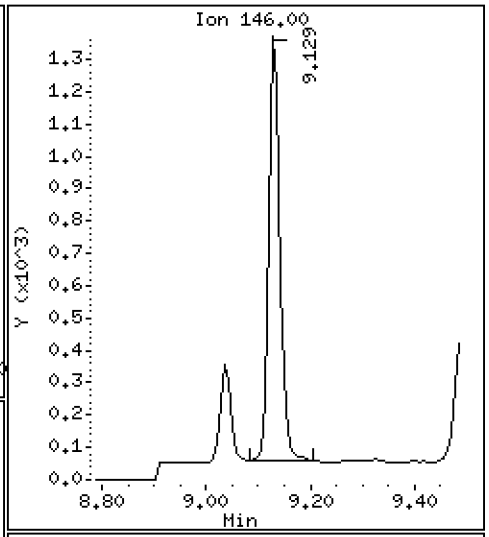
Column phase: ZB-5msi

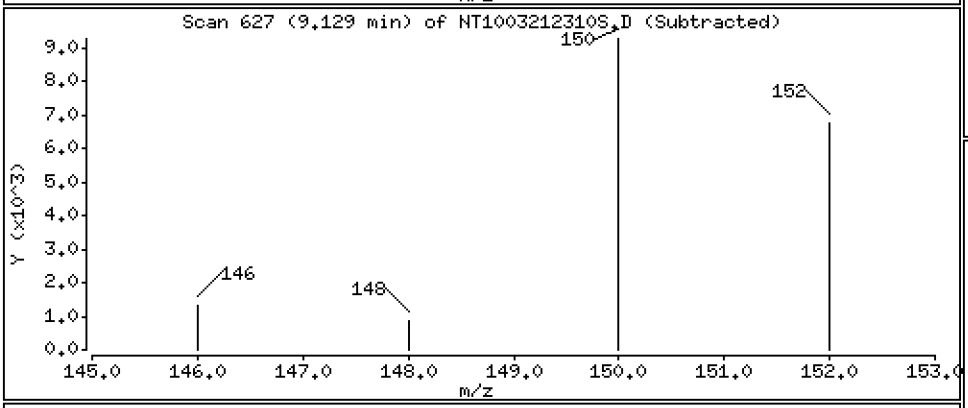
Column diameter: 0.25

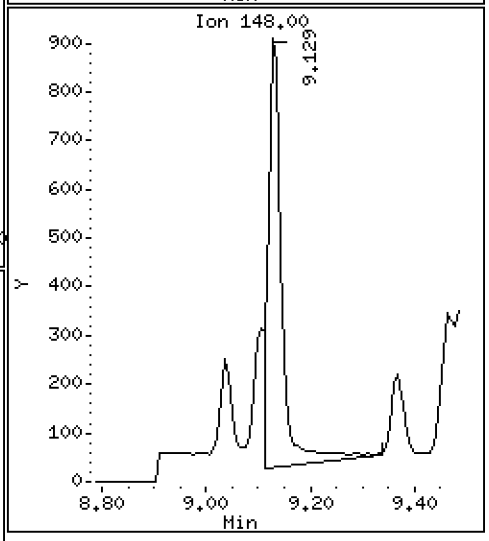
9 1,4-Dichlorobenzene

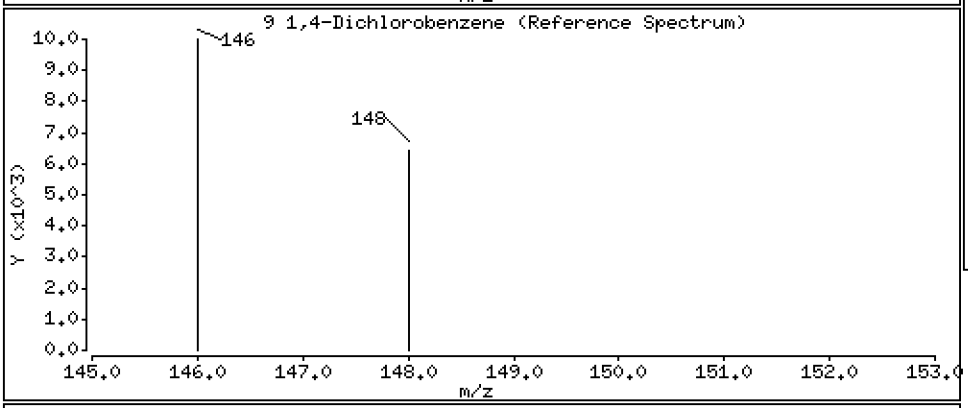
Concentration: 0.02375 ug/L

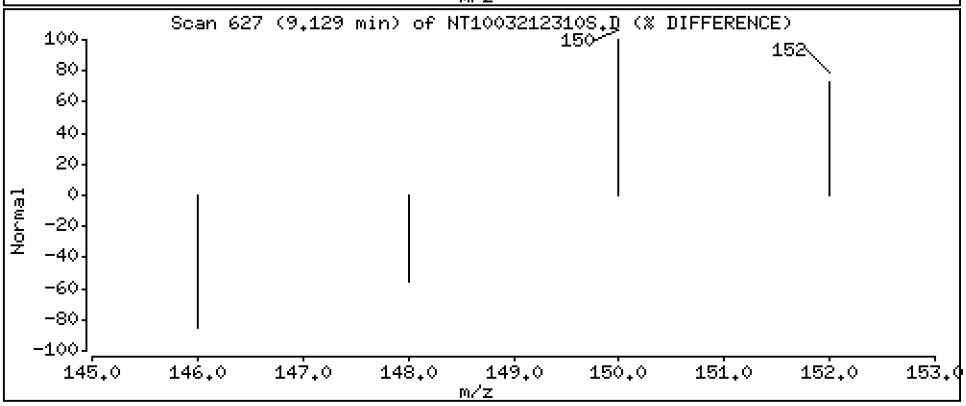












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Date : 21-MAR-2023 22:56

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-01

Volume Injected (uL): 1.0

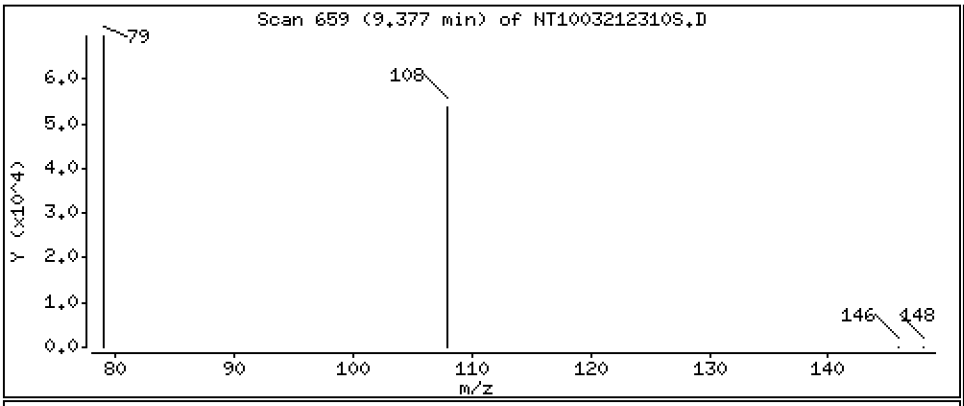
Operator: JGR

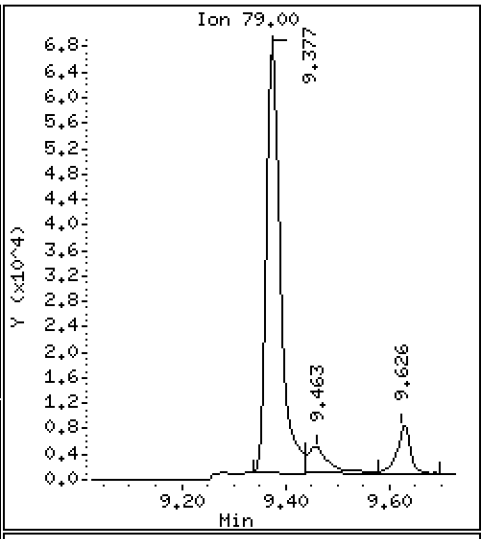
Column phase: ZB-5msi

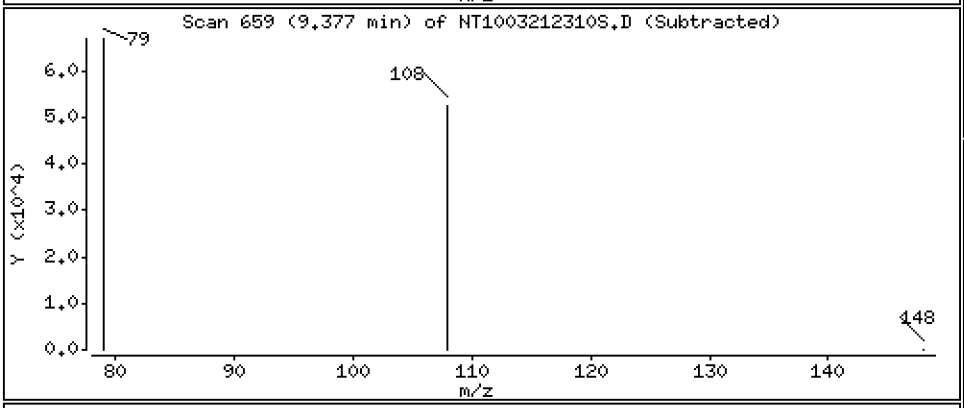
Column diameter: 0.25

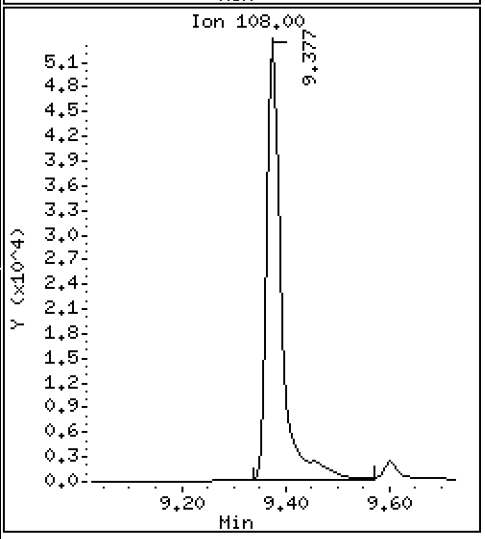
11 Benzyl alcohol

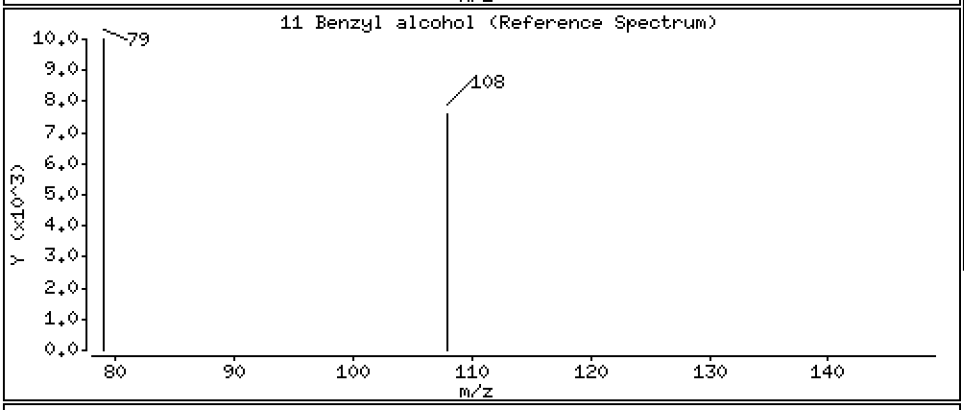
Concentration: 2.277 ug/L

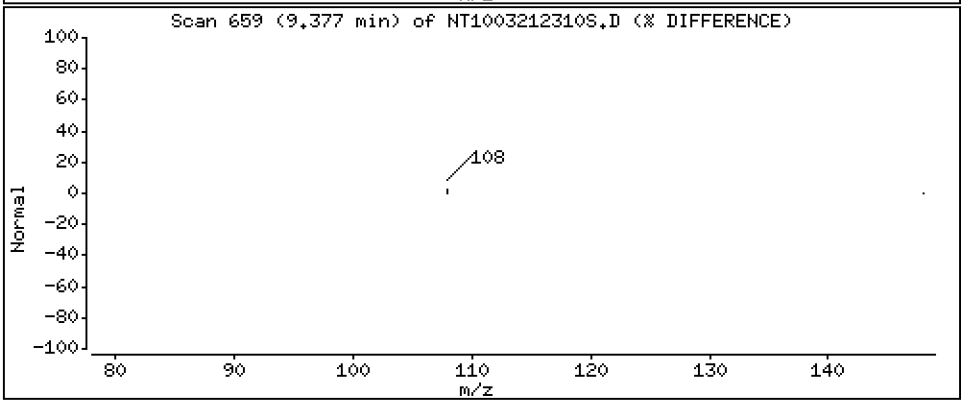












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Date : 21-MAR-2023 22:56

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-01

Volume Injected (uL): 1.0

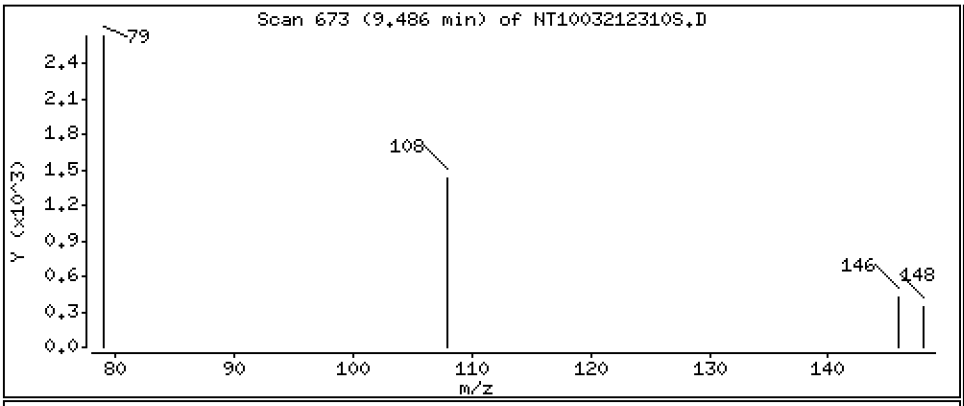
Operator: JGR

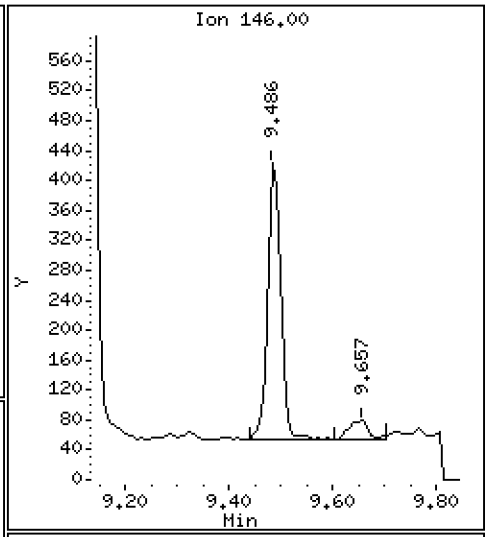
Column phase: ZB-5msi

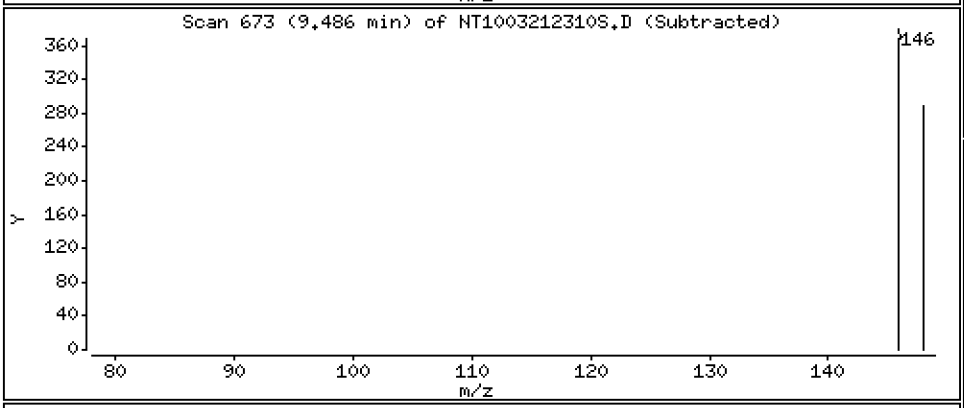
Column diameter: 0.25

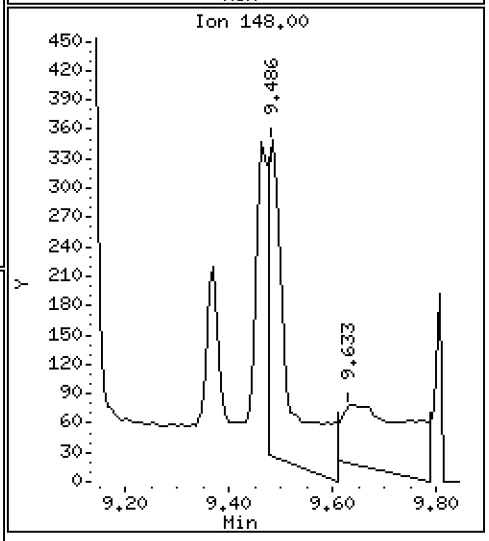
12 1,2-Dichlorobenzene

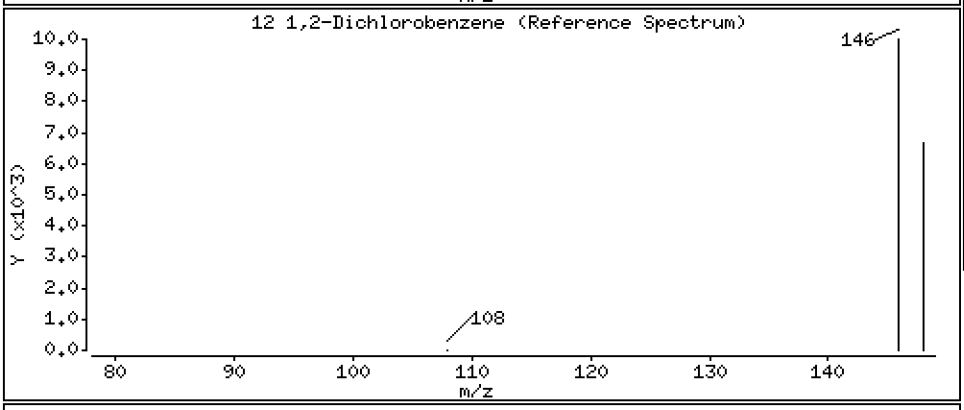
Concentration: 0.007640 ug/L

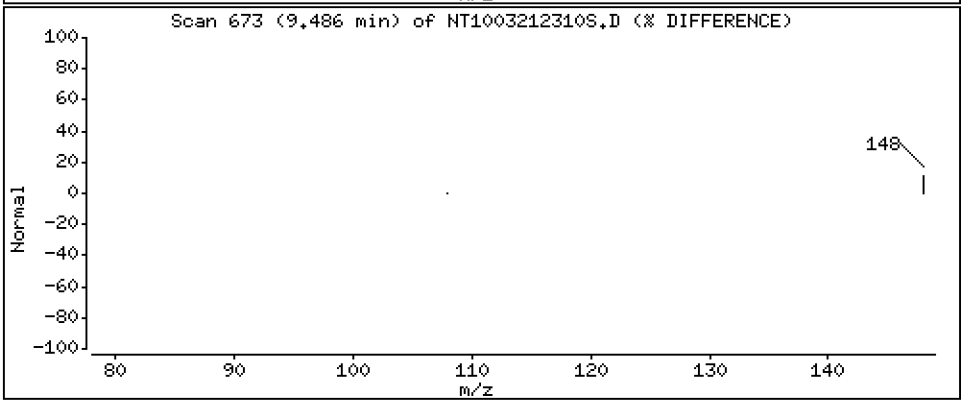












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Date : 21-MAR-2023 22:56

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-01

Volume Injected (uL): 1.0

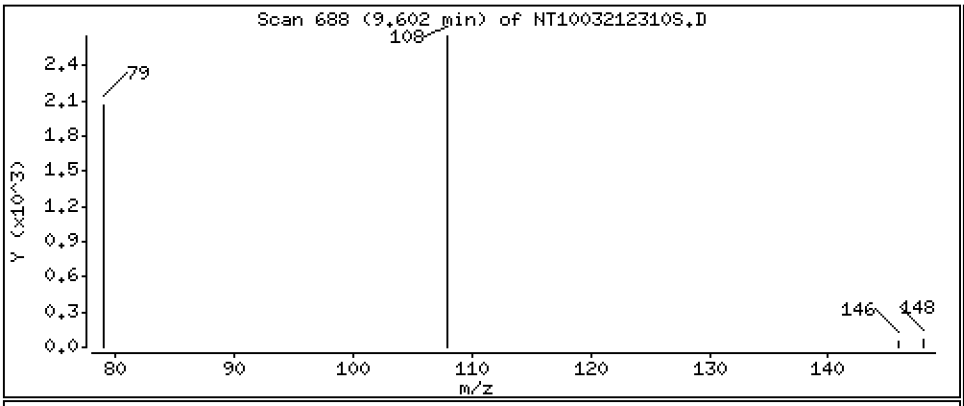
Operator: JGR

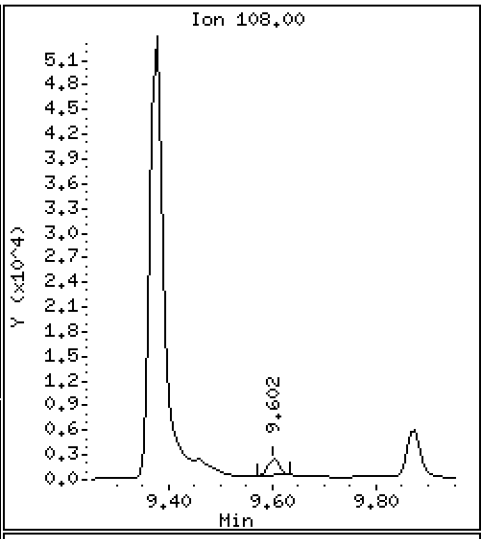
Column phase: ZB-5msi

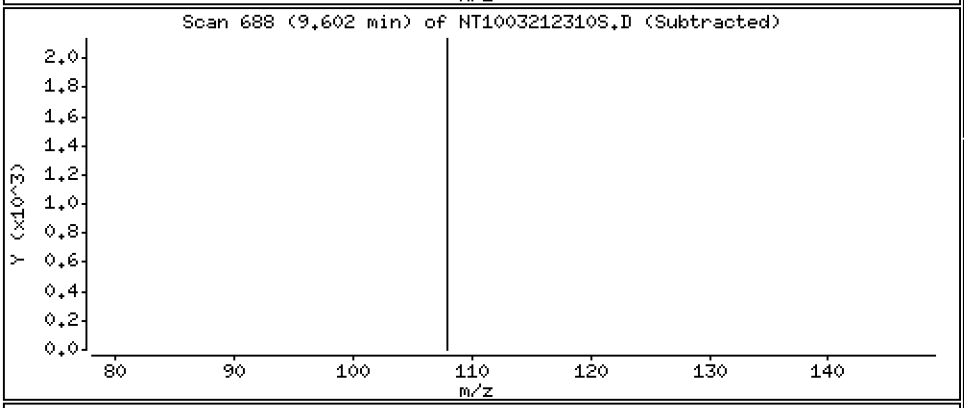
Column diameter: 0.25

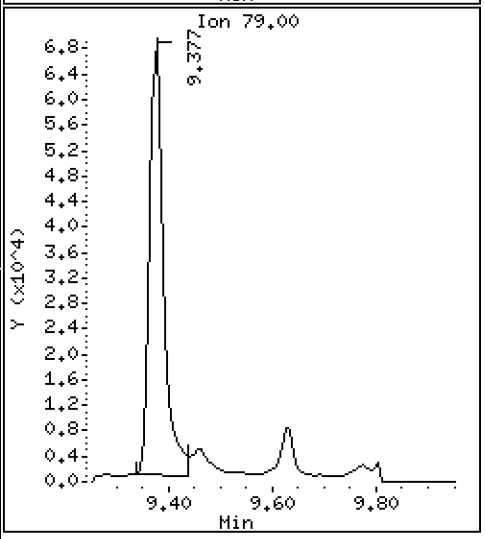
13 2-Methylphenol

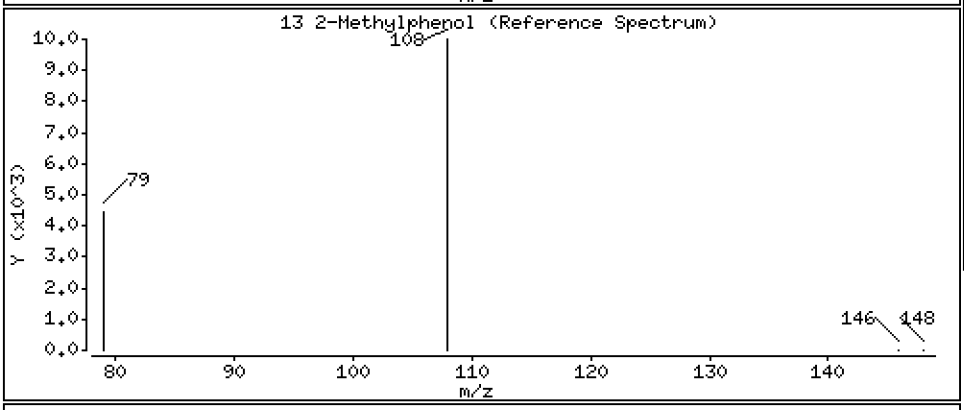
Concentration: 0.04513 ug/L

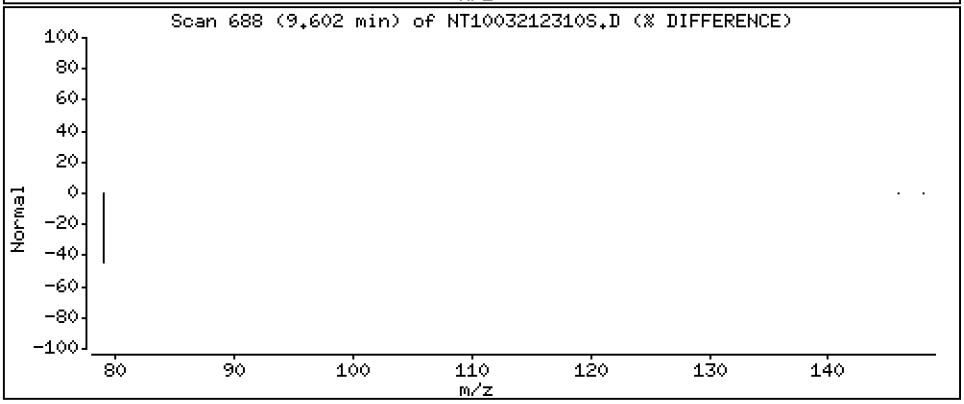












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212310S.D

Date : 21-MAR-2023 22:56

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-01

Volume Injected (uL): 1.0

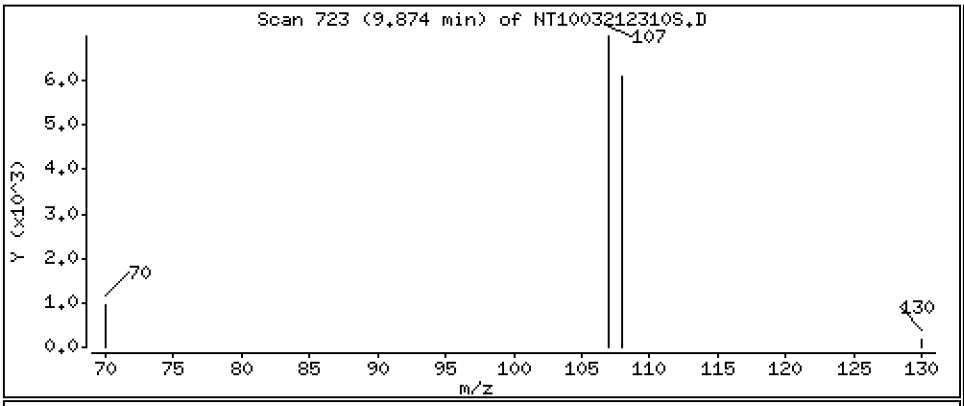
Operator: JGR

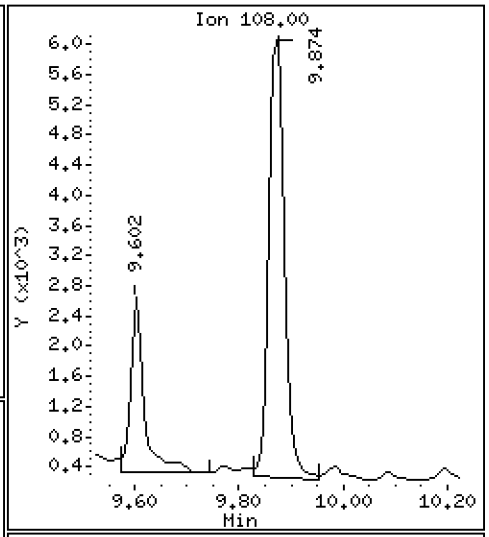
Column phase: ZB-5msi

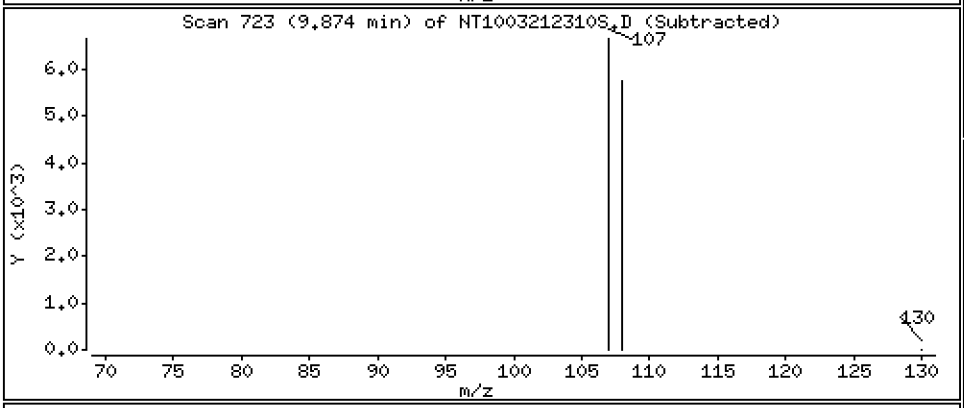
Column diameter: 0.25

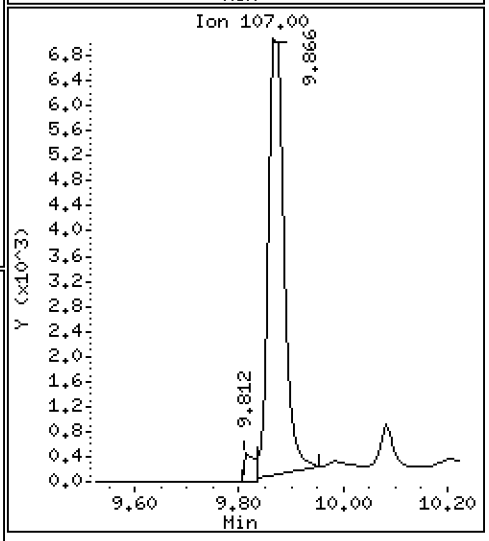
15 4-Methylphenol

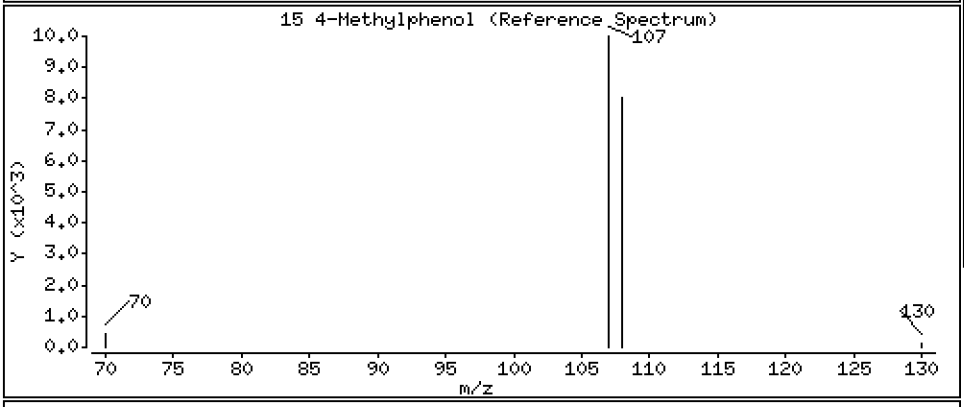
Concentration: 0.1752 ug/L

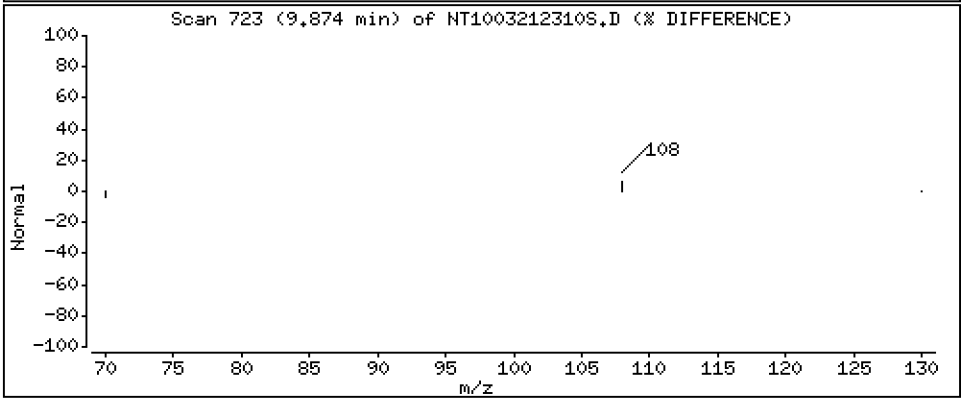












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212310S.D

Date : 21-MAR-2023 22:56

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-01

Volume Injected (uL): 1.0

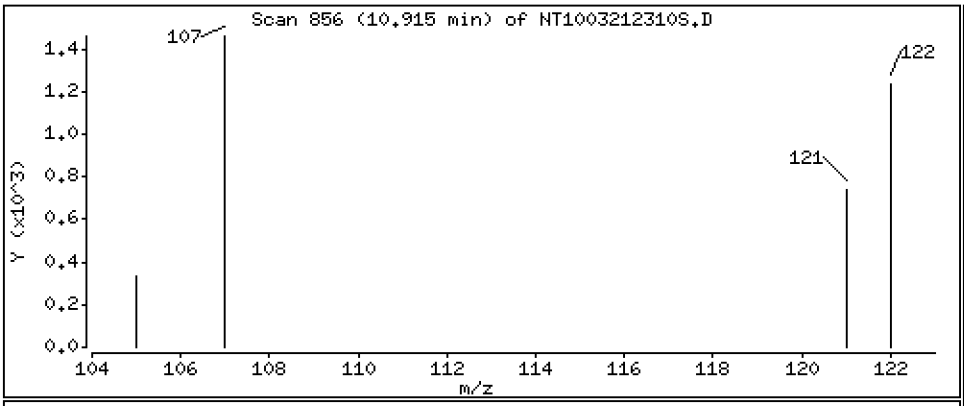
Operator: JGR

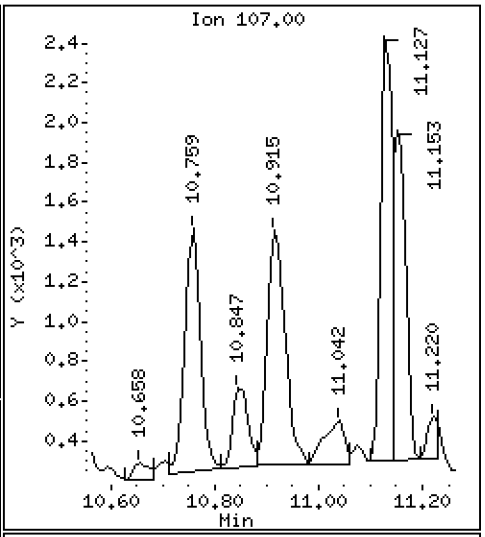
Column phase: ZB-5msi

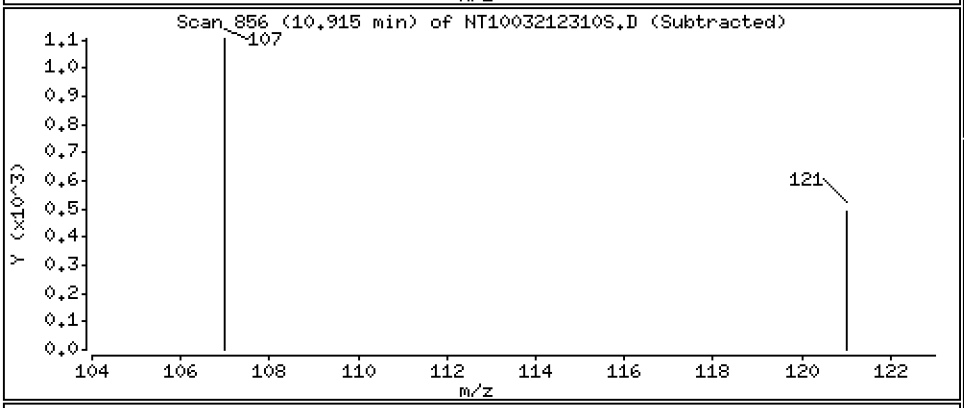
Column diameter: 0.25

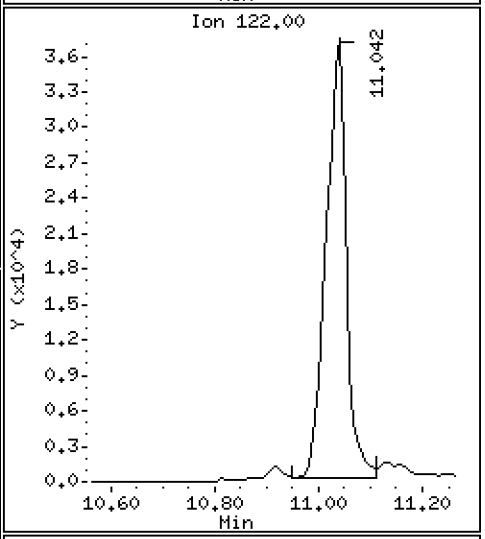
22 2,4-Dimethylphenol

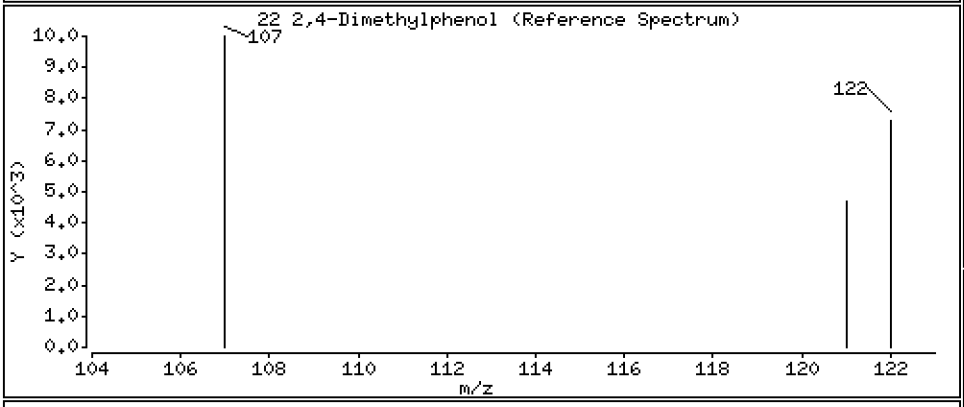
Concentration: 0.04227 ug/L

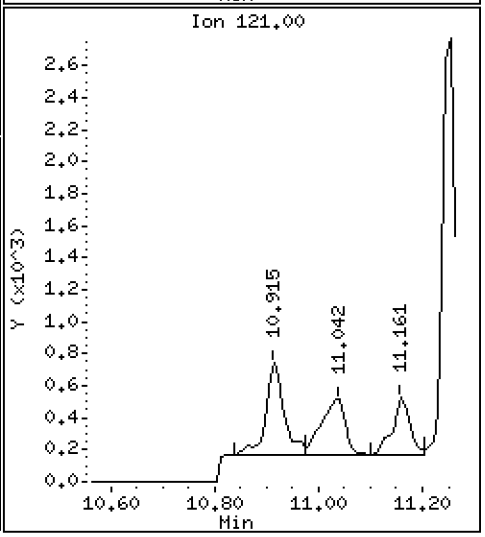


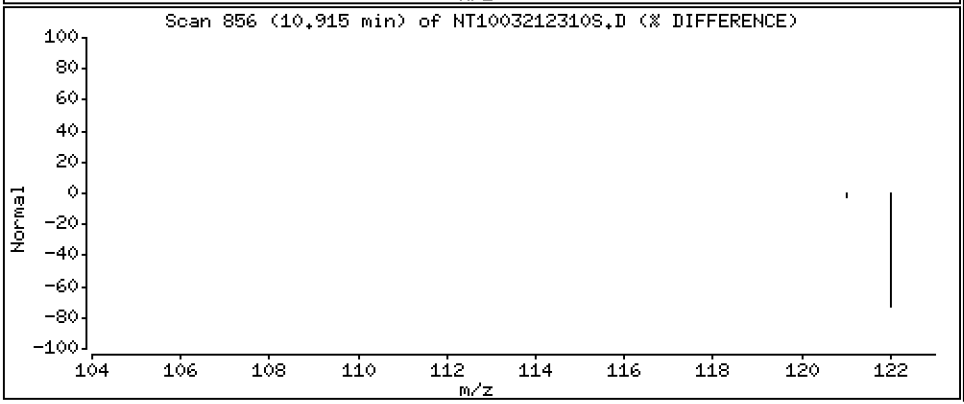












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Date : 21-MAR-2023 22:56

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-01

Volume Injected (uL): 1.0

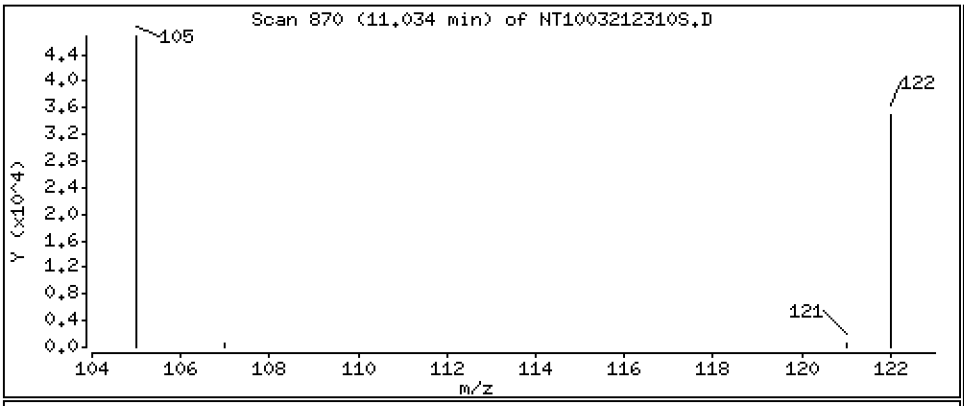
Operator: JGR

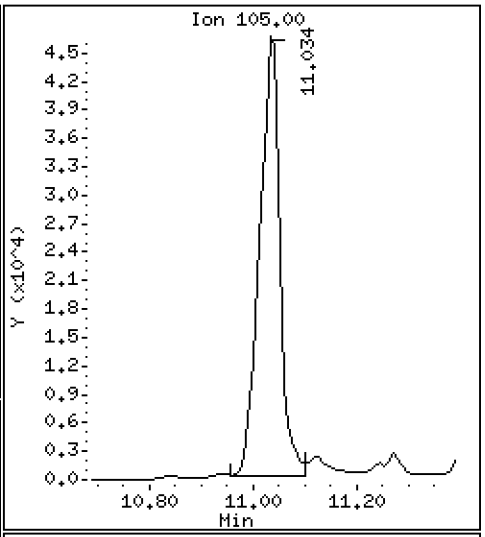
Column phase: ZB-5msi

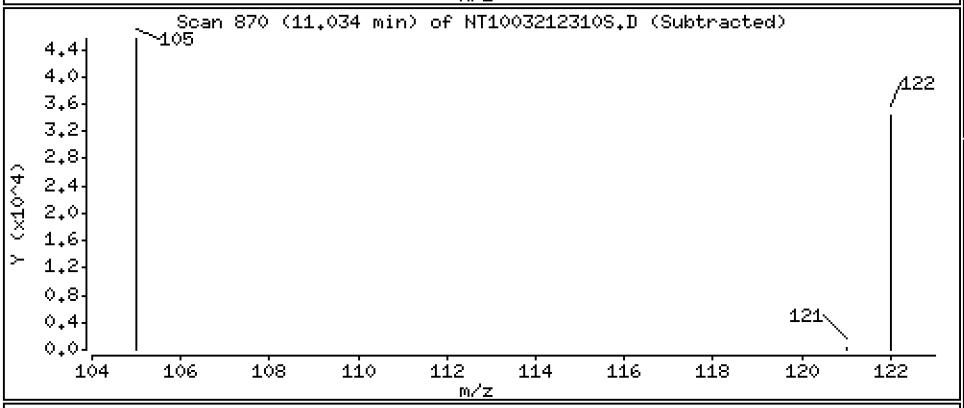
Column diameter: 0.25

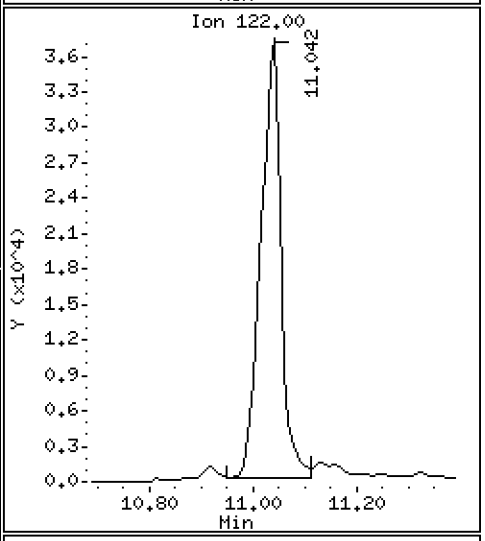
24 Benzoic acid

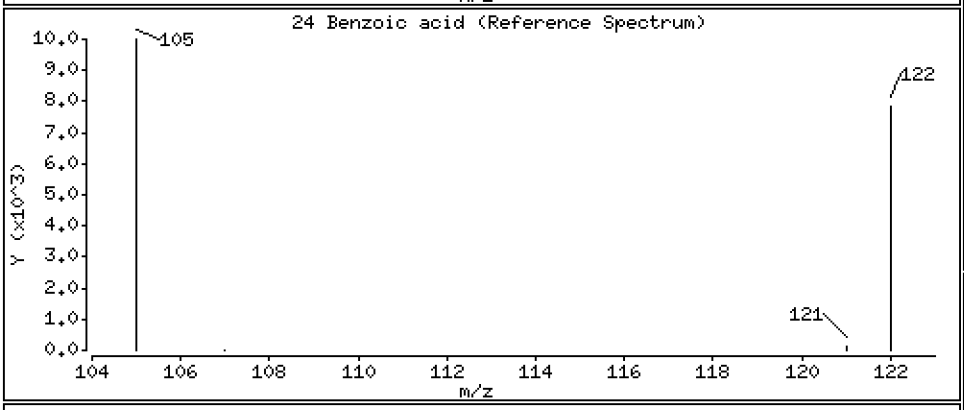
Concentration: 3.306 ug/L

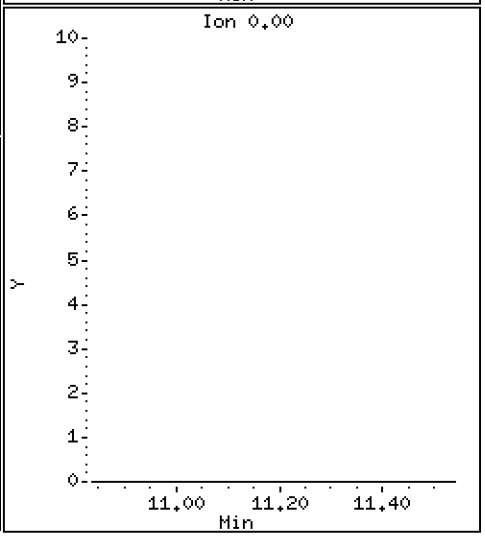


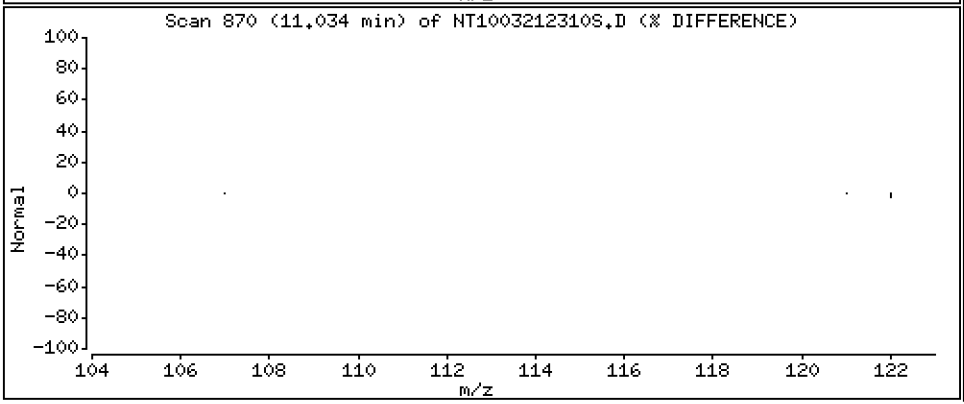












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Date : 21-MAR-2023 22:56

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-01

Volume Injected (uL): 1.0

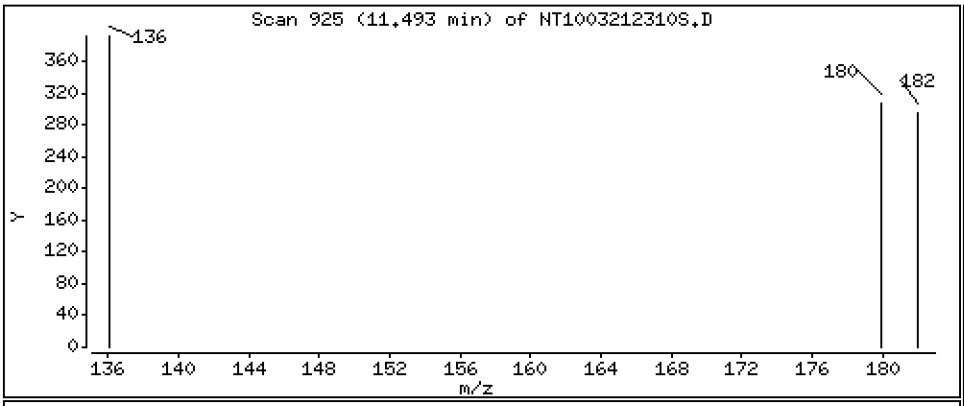
Operator: JGR

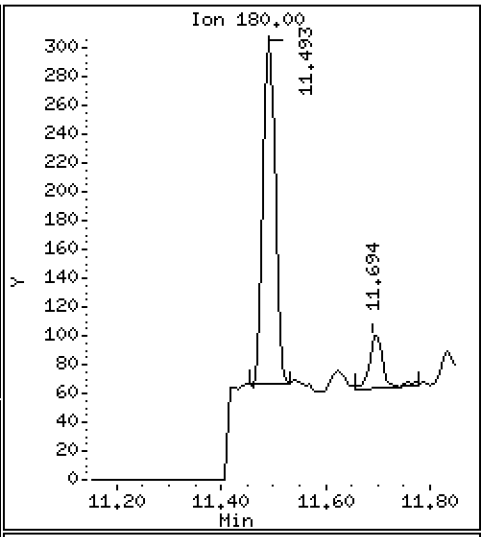
Column phase: ZB-5msi

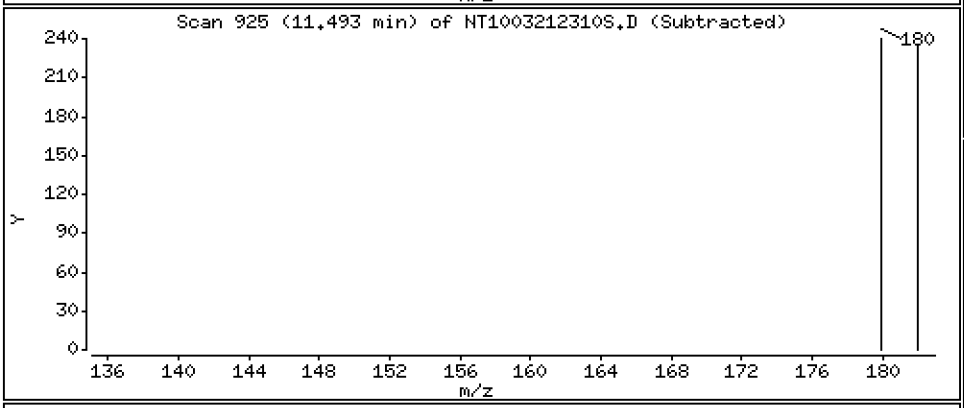
Column diameter: 0.25

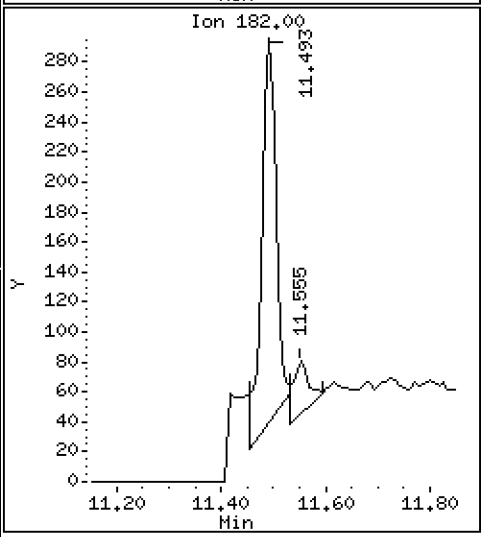
26 1,2,4-Trichlorobenzene

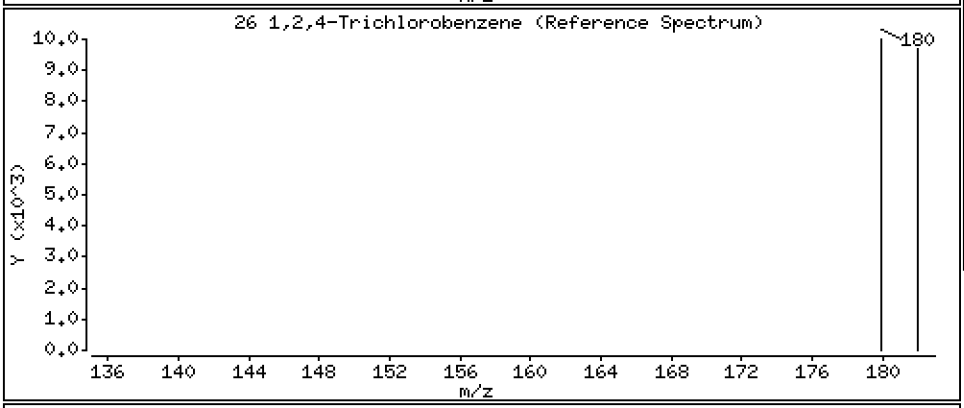
Concentration: 0.005326 ug/L

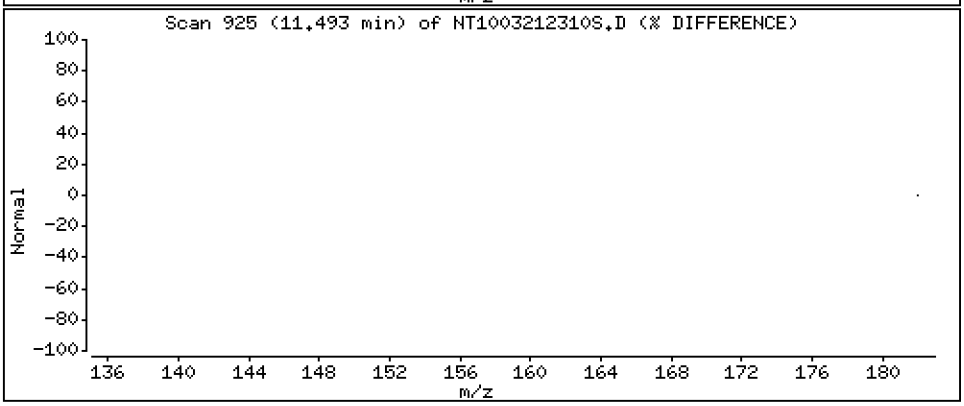












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212310S.D

Date : 21-MAR-2023 22:56

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-01

Volume Injected (uL): 1.0

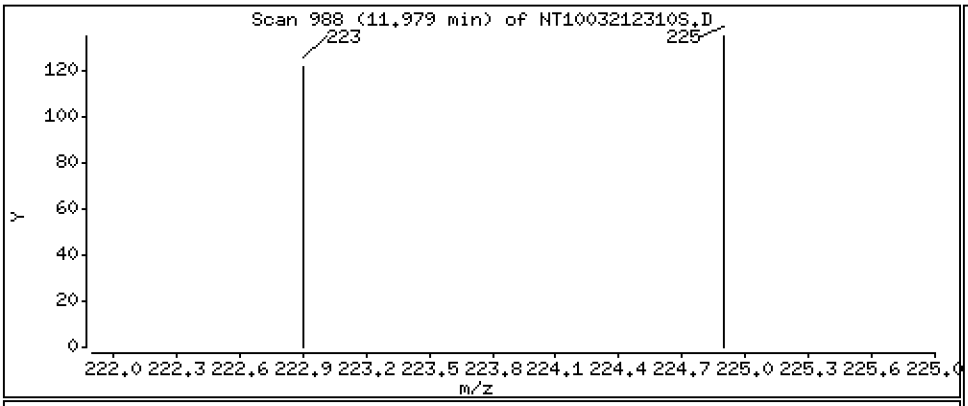
Operator: JGR

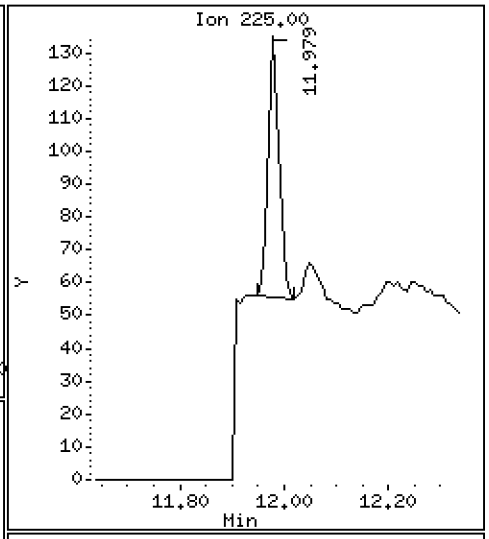
Column phase: ZB-5msi

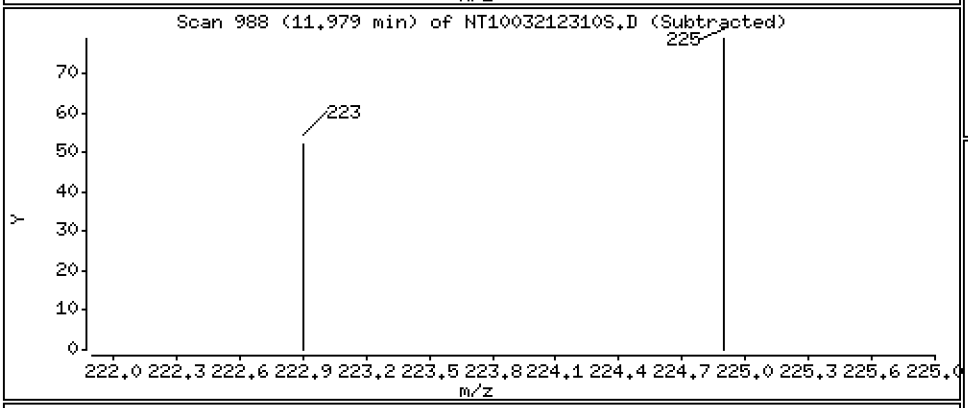
Column diameter: 0.25

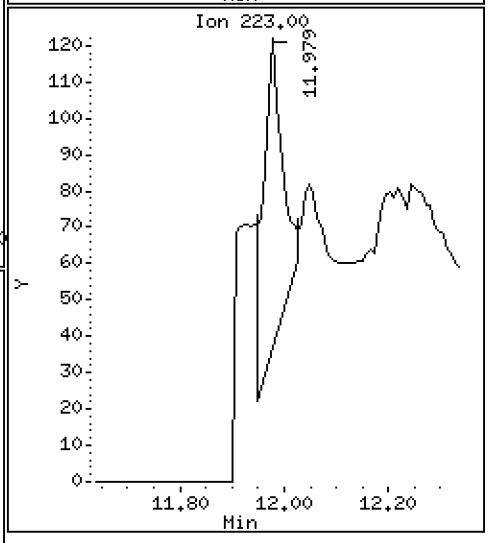
30 Hexachlorobutadiene

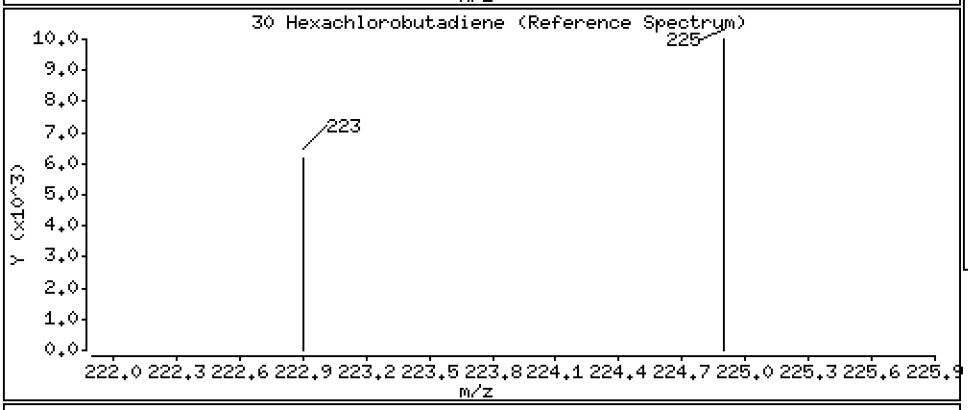
Concentration: 0.002680 ug/L

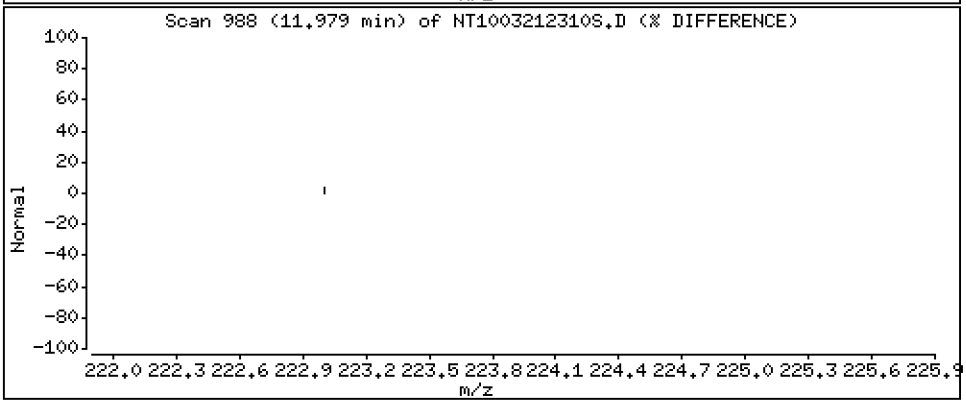












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212310S.D

Date : 21-MAR-2023 22:56

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-01

Volume Injected (uL): 1.0

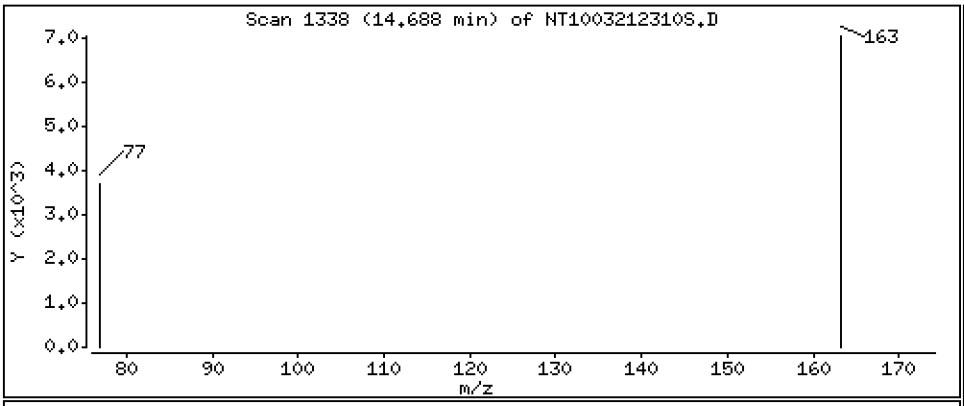
Operator: JGR

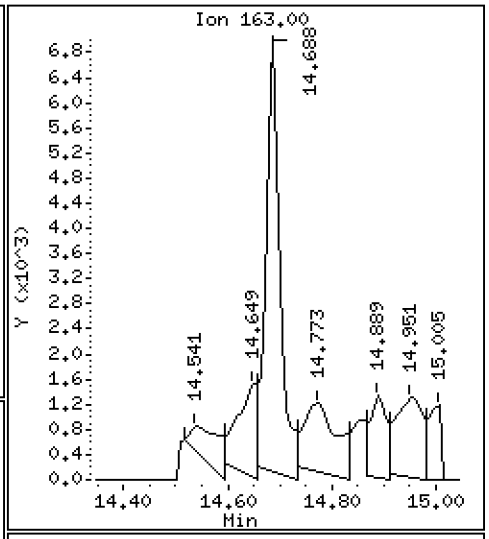
Column phase: ZB-5msi

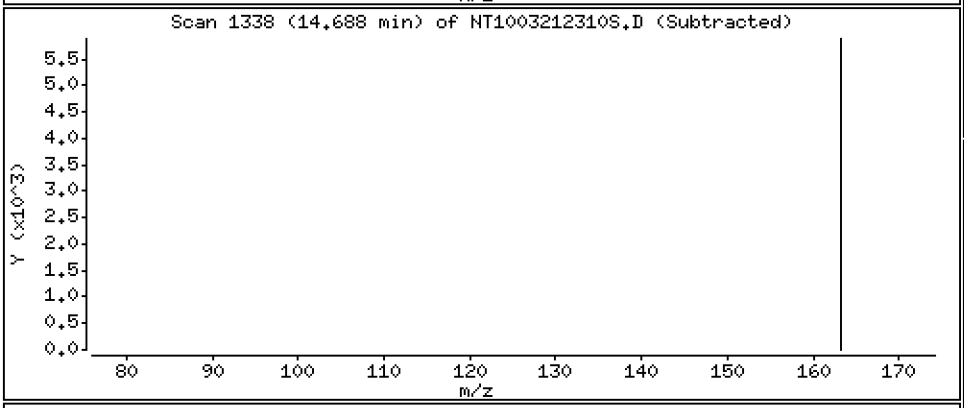
Column diameter: 0.25

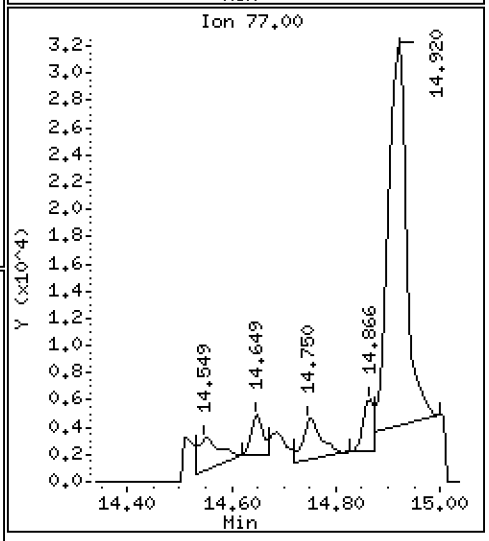
39 Dimethylphthalate

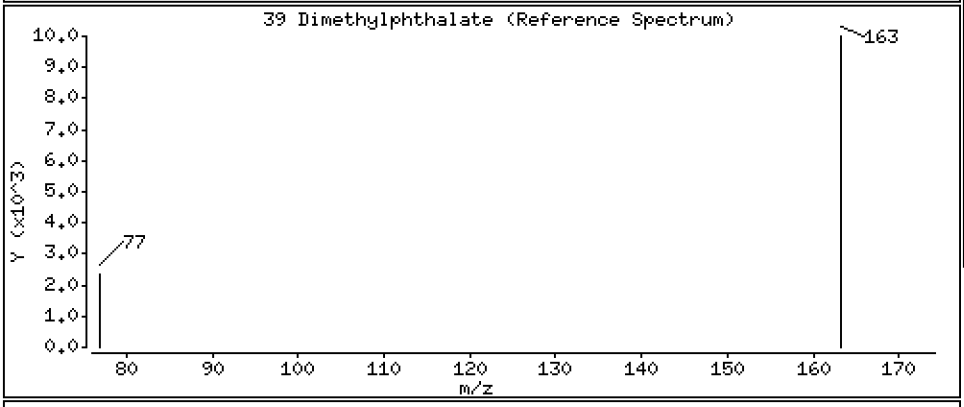
Concentration: 0.1031 ug/L

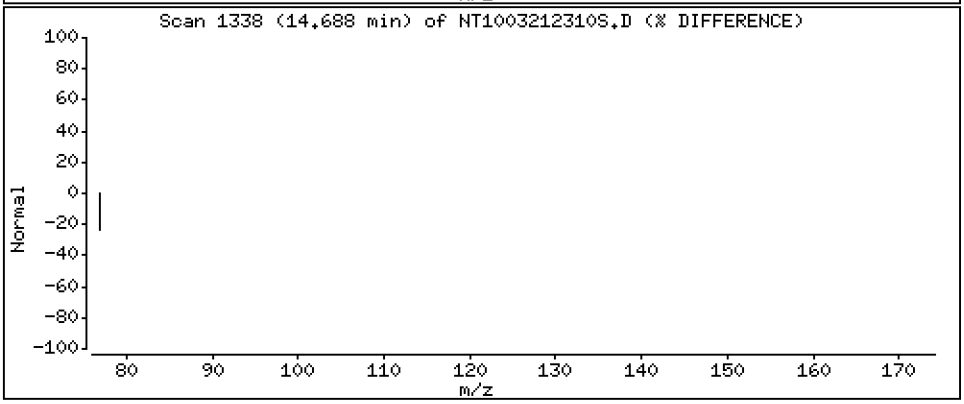












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Date : 21-MAR-2023 22:56

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-01

Volume Injected (uL): 1.0

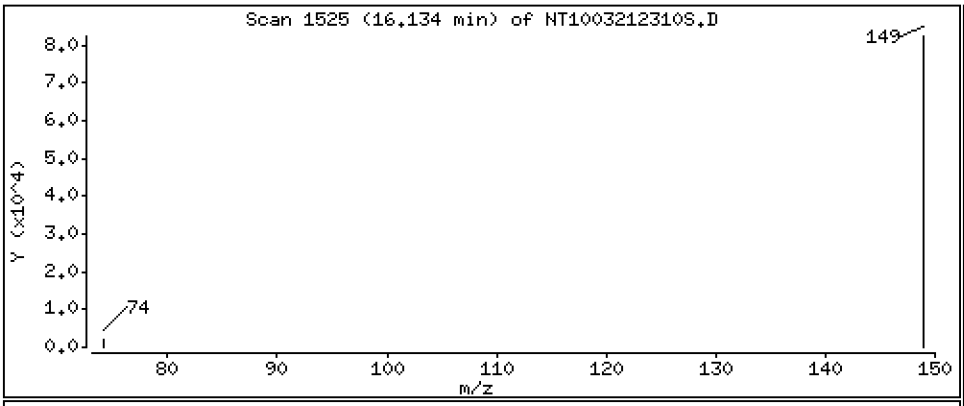
Operator: JGR

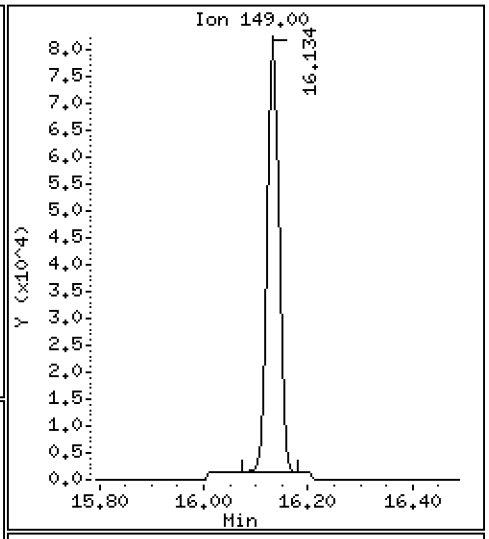
Column phase: ZB-5msi

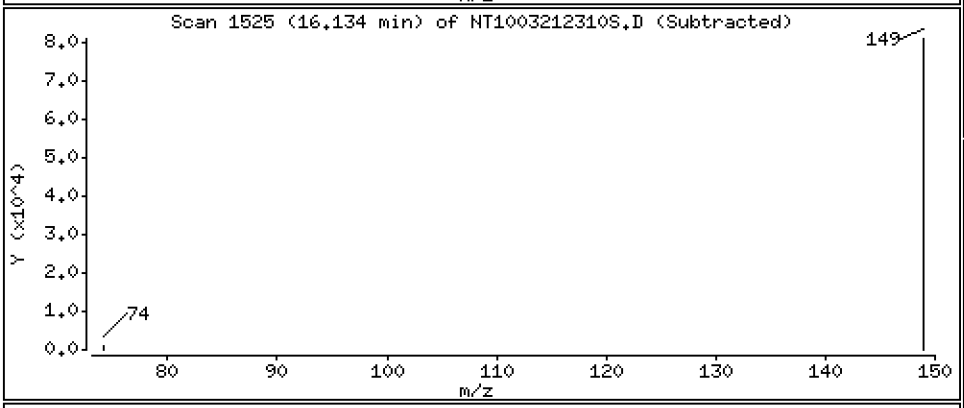
Column diameter: 0.25

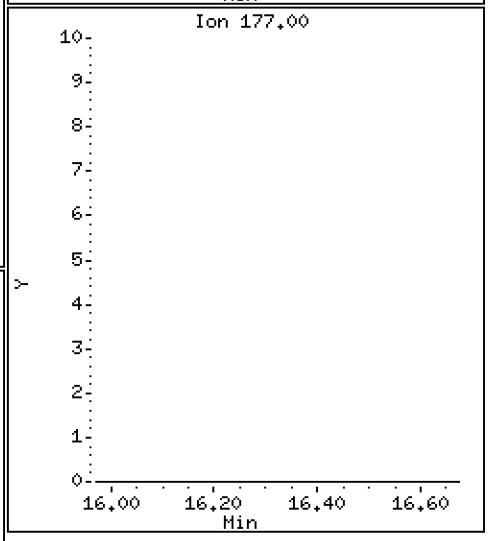
50 Diethylphthalate

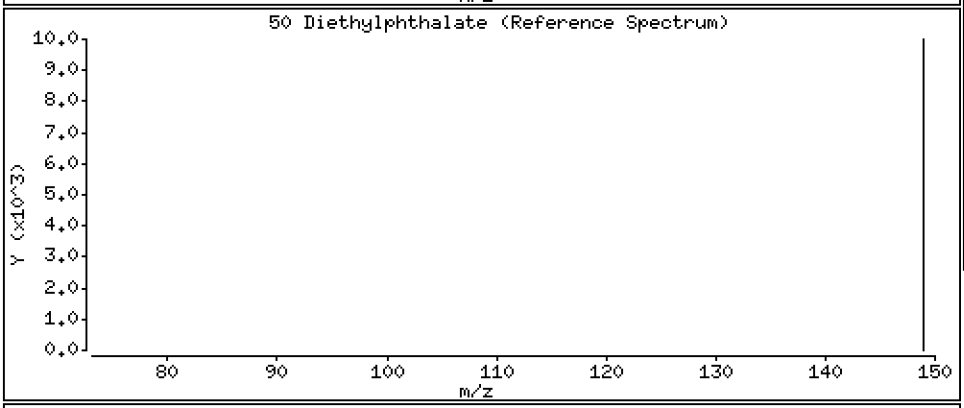
Concentration: 0.9080 ug/L

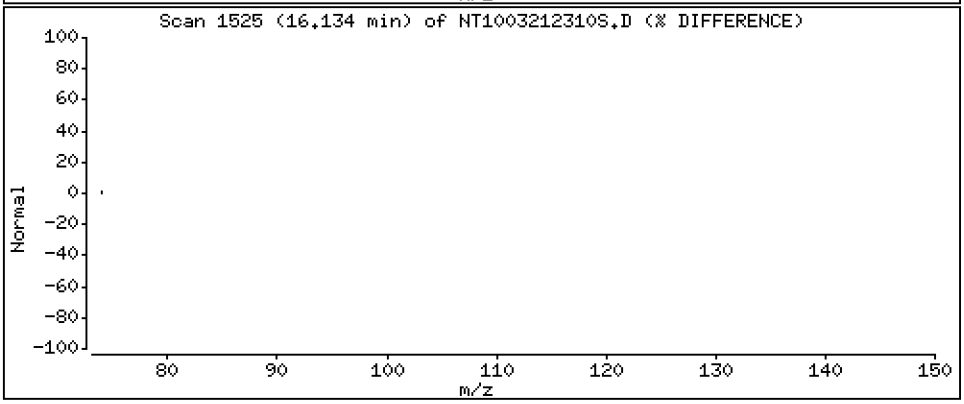












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Date : 21-MAR-2023 22:56

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-01

Volume Injected (uL): 1.0

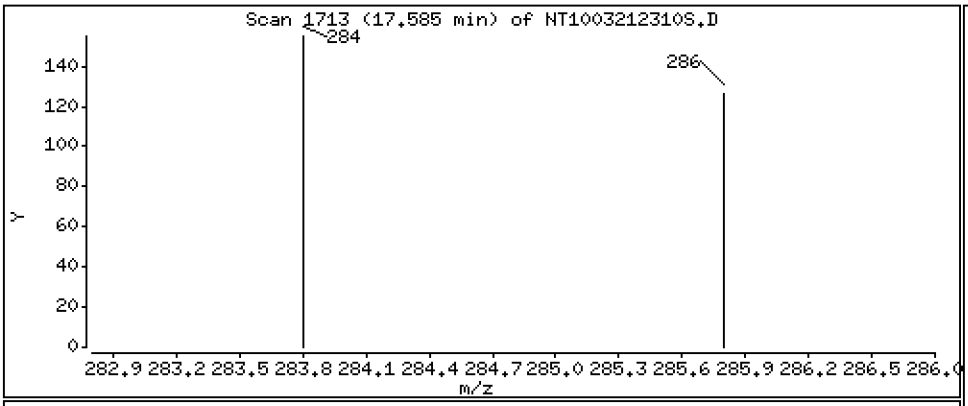
Operator: JGR

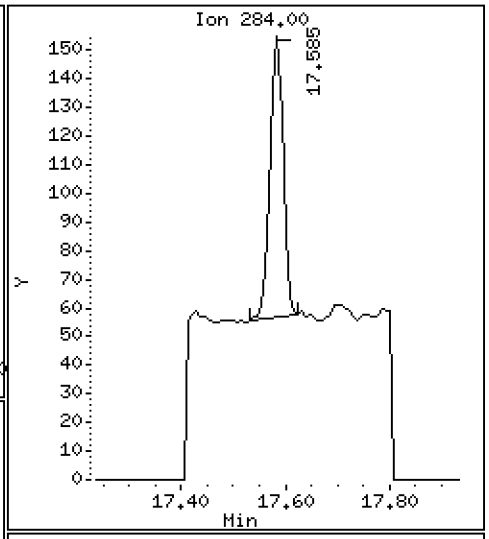
Column phase: ZB-5msi

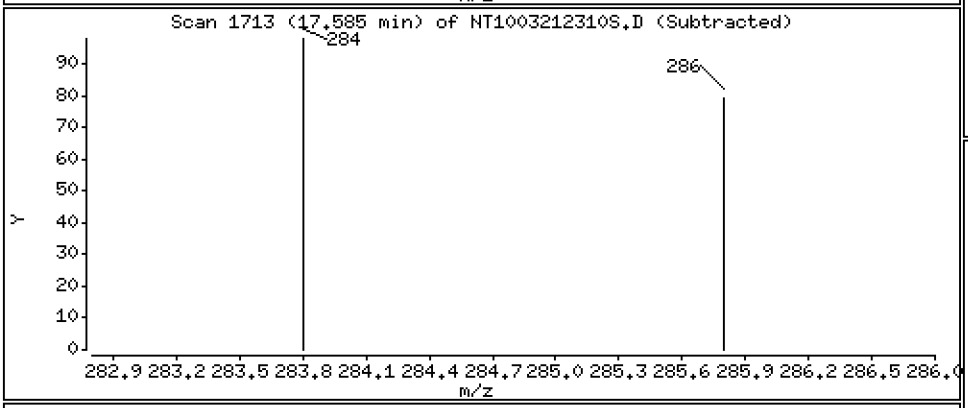
Column diameter: 0.25

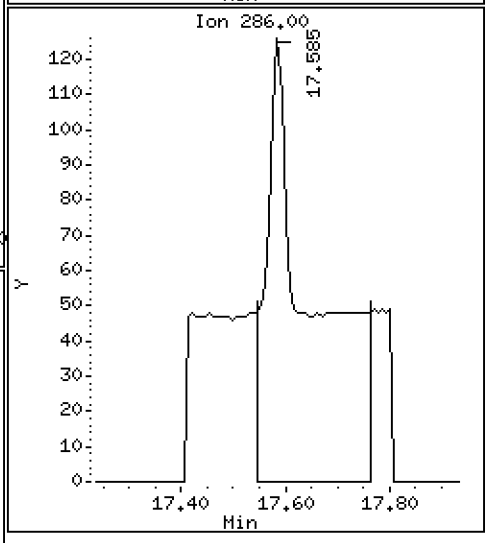
57 Hexachlorobenzene

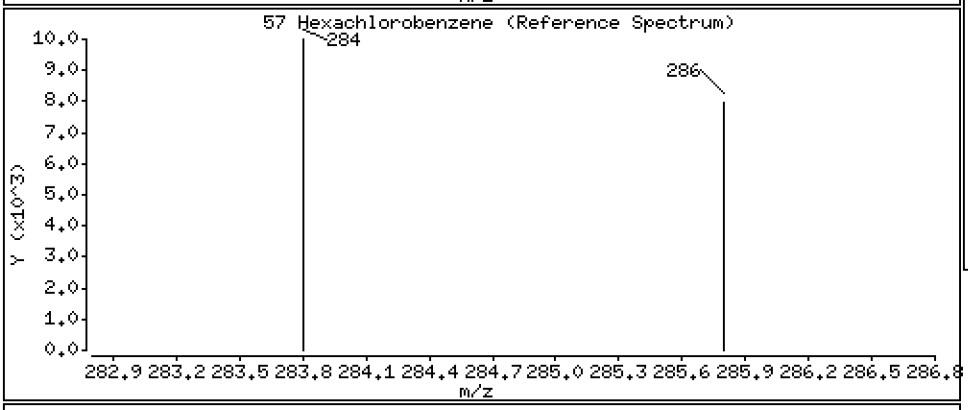
Concentration: 0.003306 ug/L

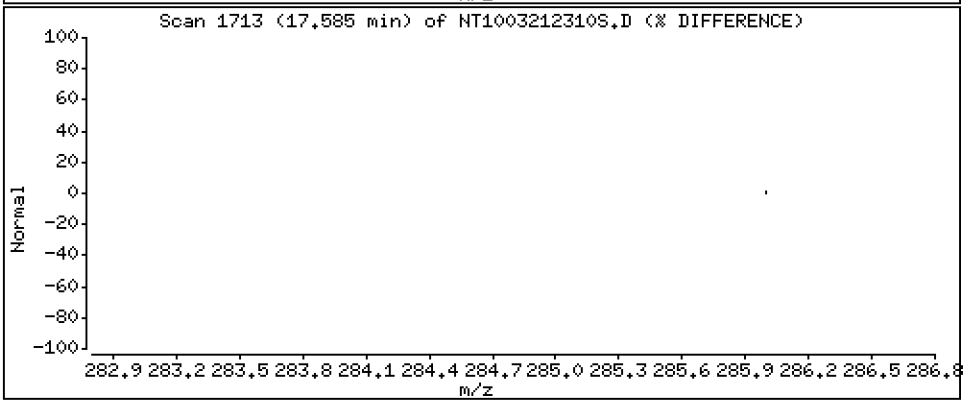












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212310S.D

Date : 21-MAR-2023 22:56

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-01

Volume Injected (uL): 1.0

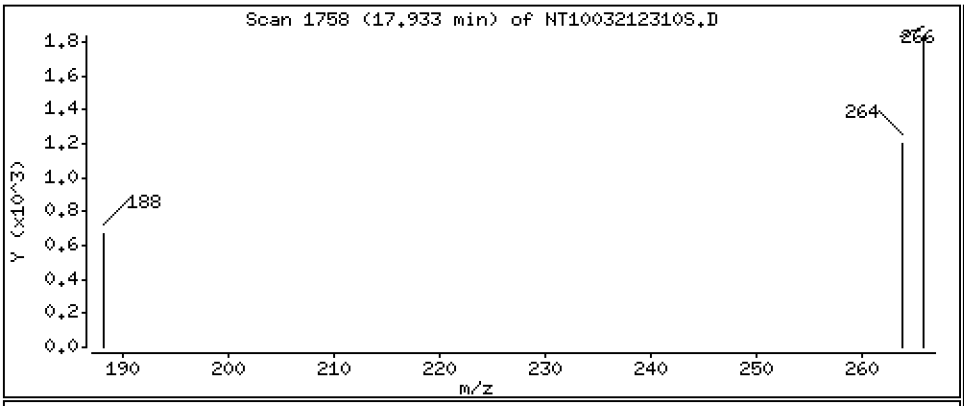
Operator: JGR

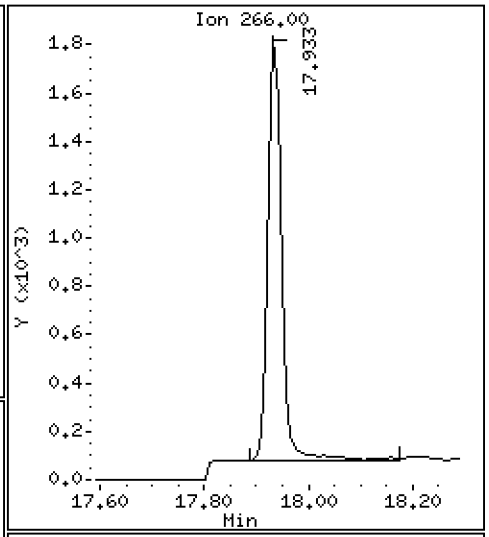
Column phase: ZB-5msi

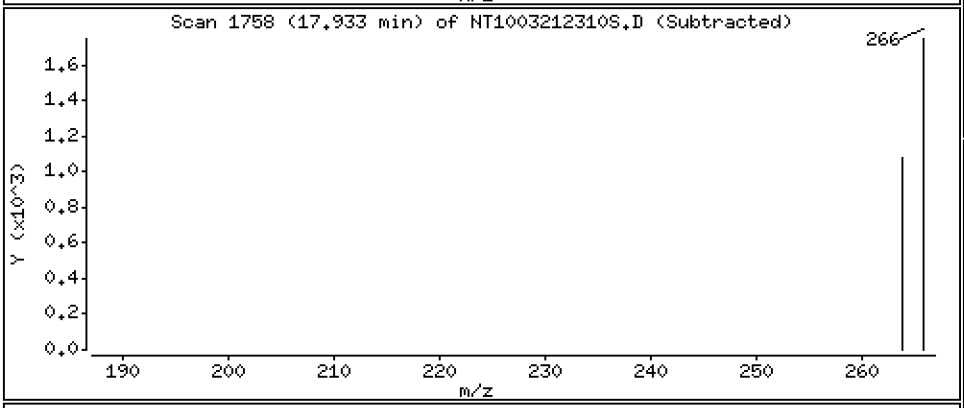
Column diameter: 0.25

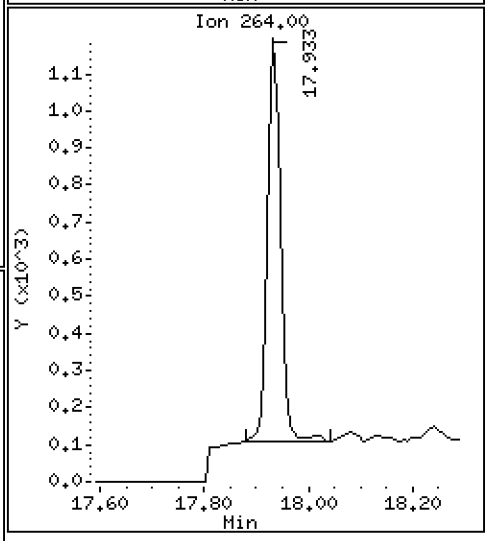
58 Pentachlorophenol

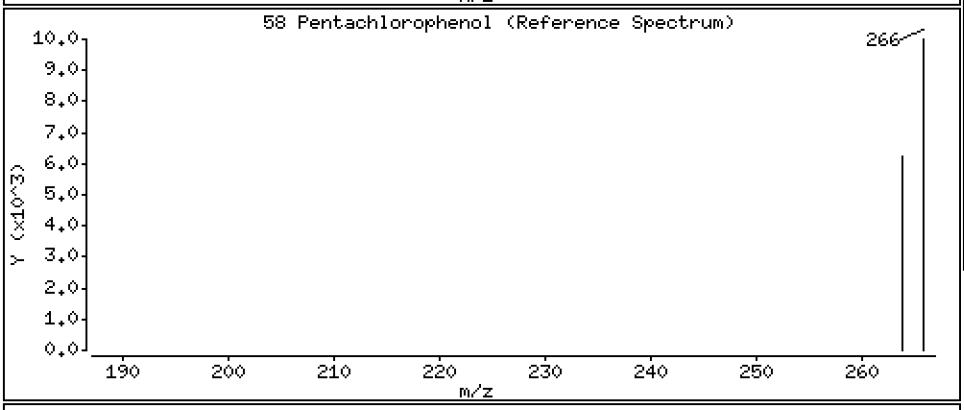
Concentration: 0.1119 ug/L

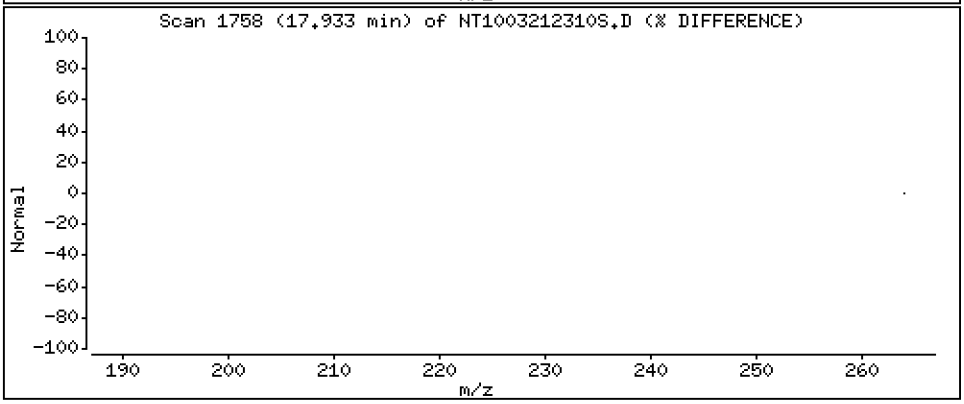












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212310S.D

Date : 21-MAR-2023 22:56

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-01

Volume Injected (uL): 1.0

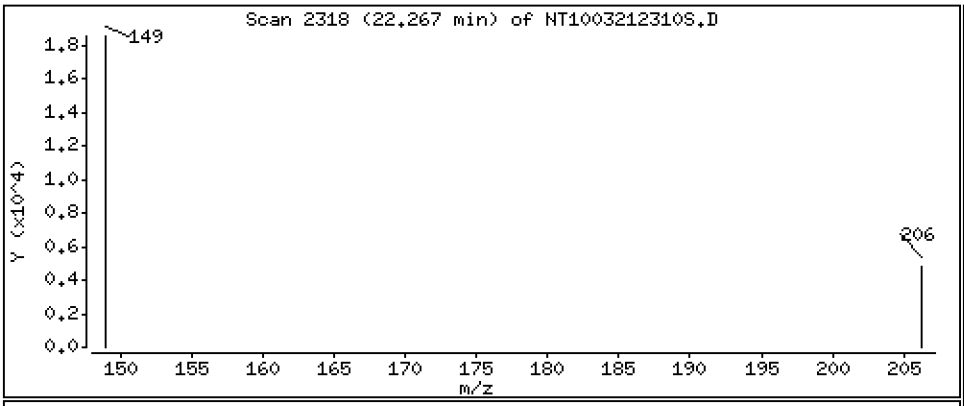
Operator: JGR

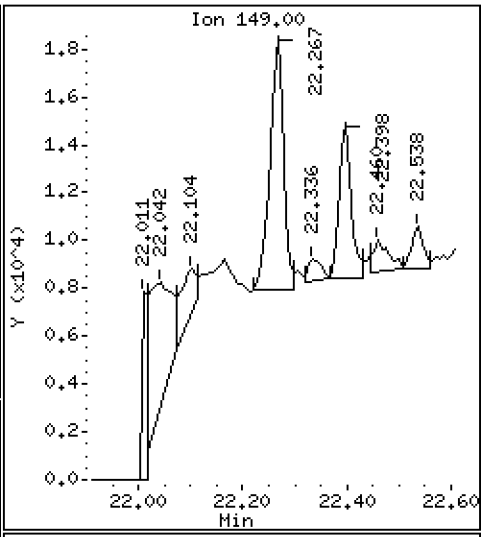
Column phase: ZB-5msi

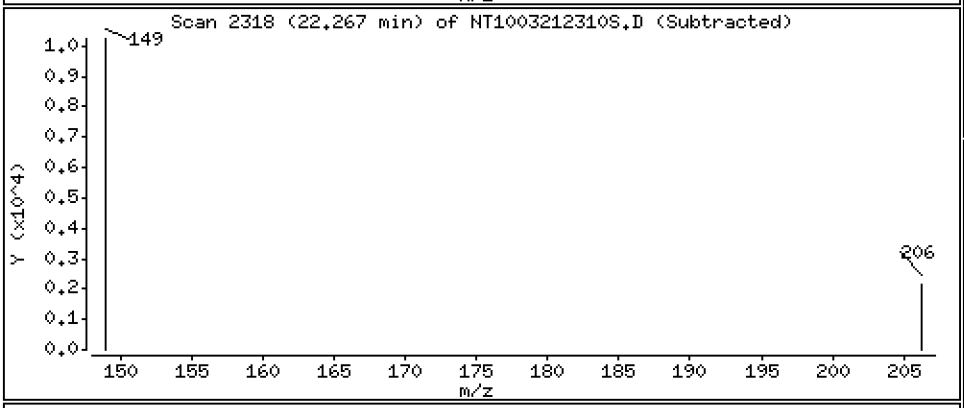
Column diameter: 0.25

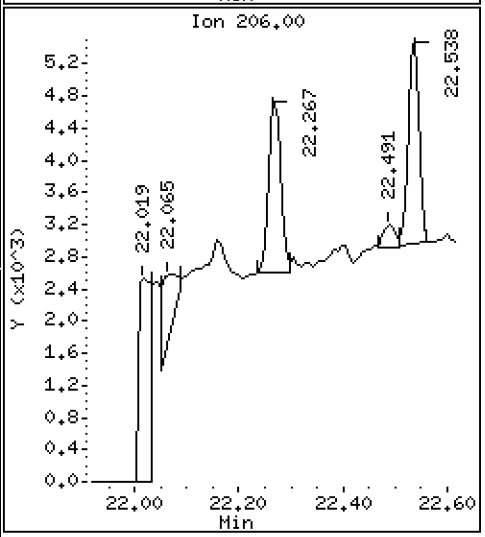
67 Butylbenzylphthalate

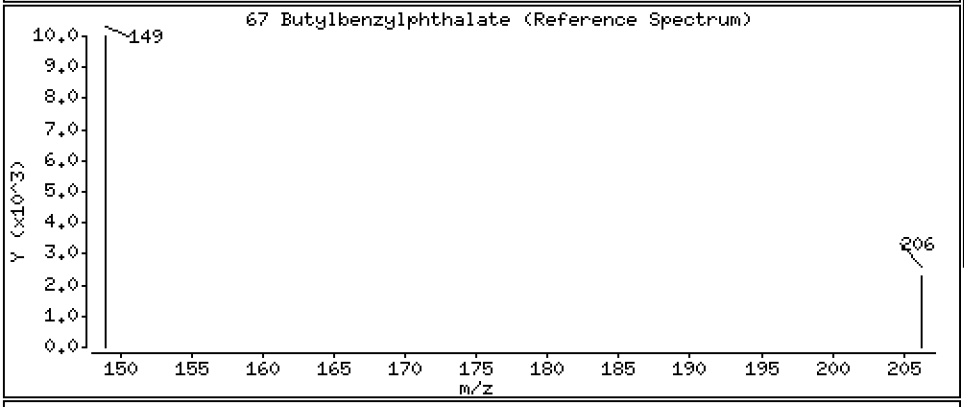
Concentration: 0.1773 ug/L

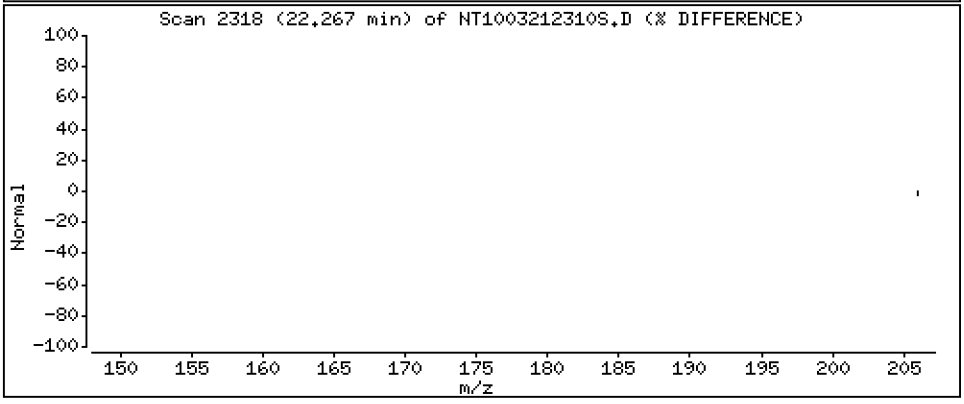












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212310S.D

Date : 21-MAR-2023 22:56

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-01

Volume Injected (uL): 1.0

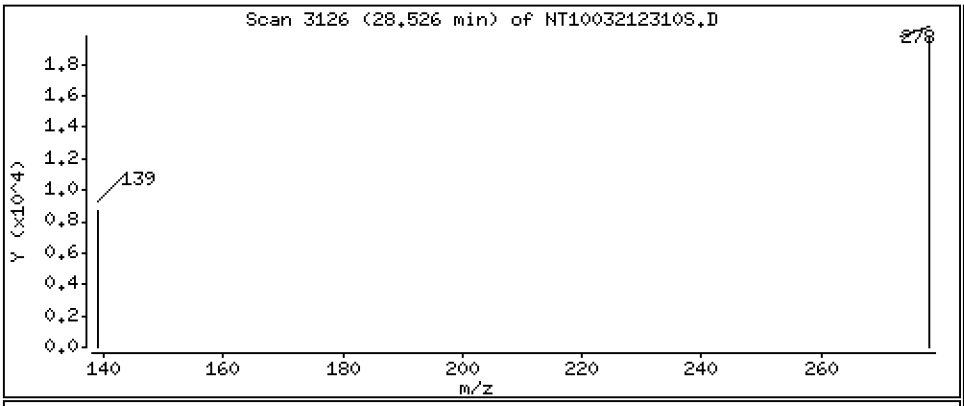
Operator: JGR

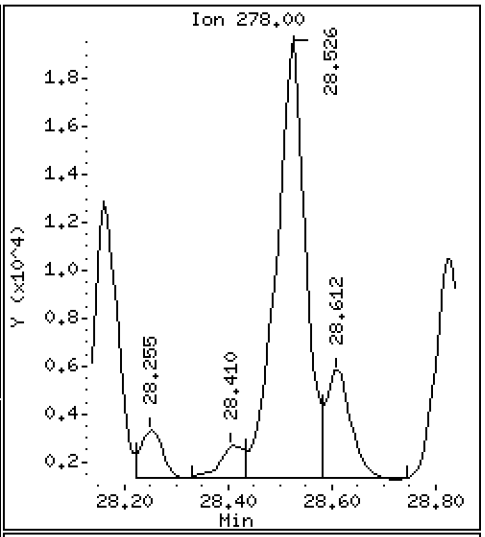
Column phase: ZB-5msi

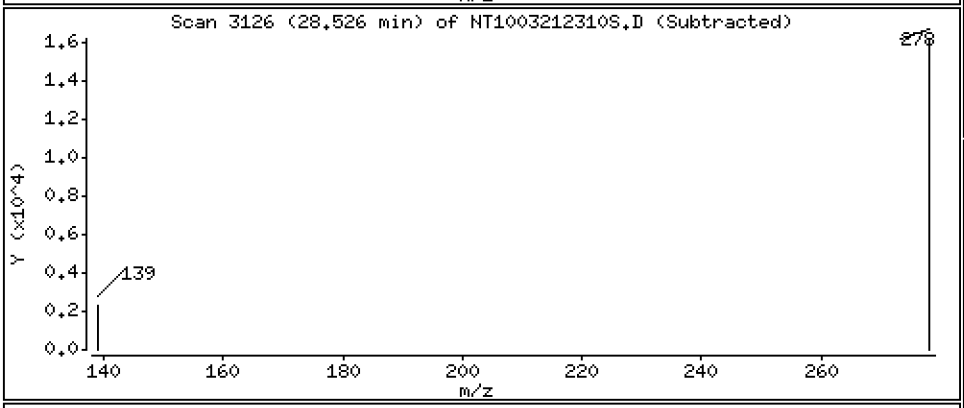
Column diameter: 0.25

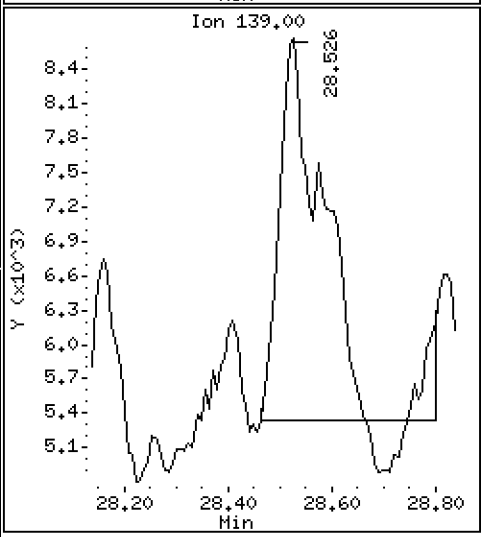
79 Dibenzo(a,h)anthracene

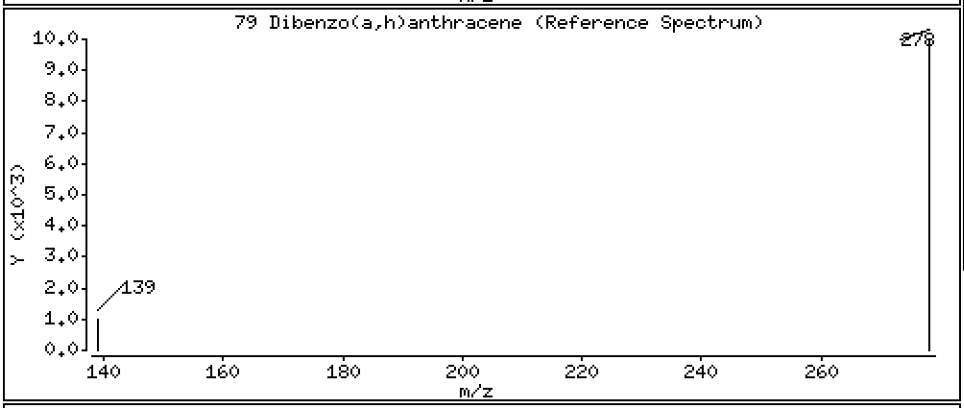
Concentration: 0.2409 ug/L

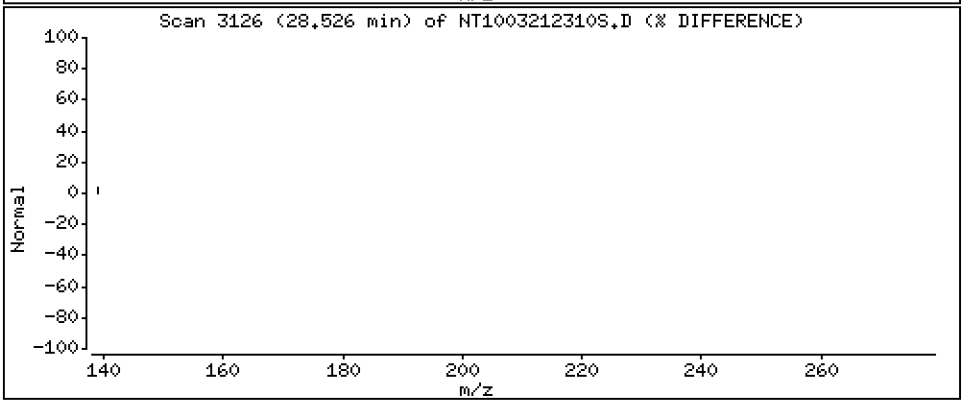












ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212310S.D
Lab Smp Id: 23C0071-01
Inj Date : 21-MAR-2023 22:56 MS Autotune Date: 16-JAN-2023 17:42
Operator : JGR Inst ID: nt10.i
Smp Info : 23C0071-01
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230321.b\20230321.b\SIMABN2.m
Meth Date : 29-Mar-2023 09:55 van Quant Type: ISTD
Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
$ 1	2-Fluorophenol	112	6.895	6.895	(0.757)	306664	4.56868	4.569(R)
3	Phenol	94	8.494	8.494	(0.933)	42179	0.45803	0.4580
7	1,3-Dichlorobenzene	146	9.035	9.043	(0.992)	507	0.00588	0.005884
* 8	1,4-Dichlorobenzene-d4	152	9.105	9.105	(1.000)	221349	4.00000	
9	1,4-Dichlorobenzene	146	9.128	9.136	(1.003)	1976	0.02375	0.02375(M)
11	Benzyl alcohol	79	9.377	9.377	(1.030)	121576	2.27725	2.277
12	1,2-Dichlorobenzene	146	9.485	9.493	(1.042)	625	0.00764	0.007640
13	2-Methylphenol	108	9.602	9.602	(1.055)	2880	0.04513	0.04513(M)
15	4-Methylphenol	108	9.874	9.874	(1.084)	11617	0.17520	0.1752
16	N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
22	2,4-Dimethylphenol	107	10.914	10.914	(0.943)	2888	0.04227	0.04227(H)
24	Benzoic acid	105	11.033	11.042	(0.953)	125060	3.30565	3.306
26	1,2,4-Trichlorobenzene	180	11.492	11.500	(0.993)	366	0.00533	0.005326
* 27	Naphthalene-d8	136	11.577	11.585	(1.000)	790366	4.00000	
30	Hexachlorobutadiene	225	11.979	11.987	(1.035)	112	0.00268	0.002680(M)
39	Dimethylphthalate	163	14.688	14.695	(0.968)	13092	0.10313	0.1031
* 42	Acenaphthene-d10	162	15.175	15.183	(1.000)	402294	4.00000	
50	Diethylphthalate	149	16.134	16.141	(1.063)	119412	0.90796	0.9080
54	N-Nitrosodiphenylamine	169	Compound Not Detected.					
57	Hexachlorobenzene	284	17.584	17.584	(0.966)	161	0.00331	0.003306(M)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	58 Pentachlorophenol	266	17.933	17.941	(0.986)	3011	0.11194	0.1119
*	59 Phenanthrene-d10	188	18.196	18.196	(1.000)	810877	4.00000	
$	66 Terphenyl-d14	244	21.337	21.337	(0.918)	515581	4.09548	4.095(R)
	67 Butylbenzylphthalate	149	22.266	22.259	(0.958)	18037	0.17732	0.1773
*	69 Chrysene-d12	240	23.242	23.234	(1.000)	772638	4.00000	
*	77 Perylene-d12	264	25.867	25.836	(1.000)	924991	4.00000	
	79 Dibenzo(a,h)anthracene	278	28.526	28.487	(1.103)	73070	0.24092	0.2409
	90 N-Nitrosodimethylamine	74	Compound Not Detected.					

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1003212310S.D
Lab Smp Id: 23C0071-01
Analysis Type: SV
Quant Type: ISTD
Operator: JGR
Method File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\SIMABN2.m
Misc Info:

Calibration Date: 21-MAR-2023
Calibration Time: 18:25
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	162628	81314	325256	221349	36.11
27 Naphthalene-d8	580280	290140	1160560	790366	36.20
42 Acenaphthene-d10	297255	148628	594510	402294	35.34
59 Phenanthrene-d10	561093	280547	1122186	810877	44.52
69 Chrysene-d12	498827	249414	997654	772638	54.89
77 Perylene-d12	558480	279240	1116960	924991	65.63

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.11	8.61	9.61	9.11	-0.00
27 Naphthalene-d8	11.59	11.09	12.09	11.58	-0.07
42 Acenaphthene-d10	15.18	14.68	15.68	15.18	-0.05
59 Phenanthrene-d10	18.20	17.70	18.70	18.20	-0.00
69 Chrysene-d12	23.23	22.73	23.73	23.24	0.03
77 Perylene-d12	25.84	25.34	26.34	25.87	0.12

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

REVIEW SUMMARY FOR FILE - NT1003212310S.D

Lab ID: 23C0071-01
nt10.i, 20230321.b\20230321.b\SIMABN2.m,   21-MAR-2023 22:56

RT	CO-ELUTION COMPOUNDS
NO CO-ELUTIONS	

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
NONE			

RRT check based on Ccal File: 20230321.b/NT1003212303S.D

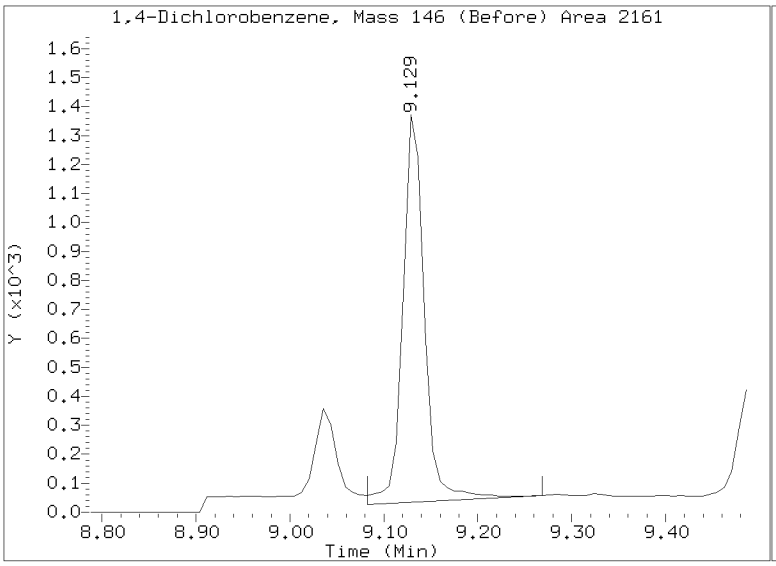
On Column LOD for nt10.i, 20230321.b\SIMABN2.m, PSDDA.sub = 0.0000

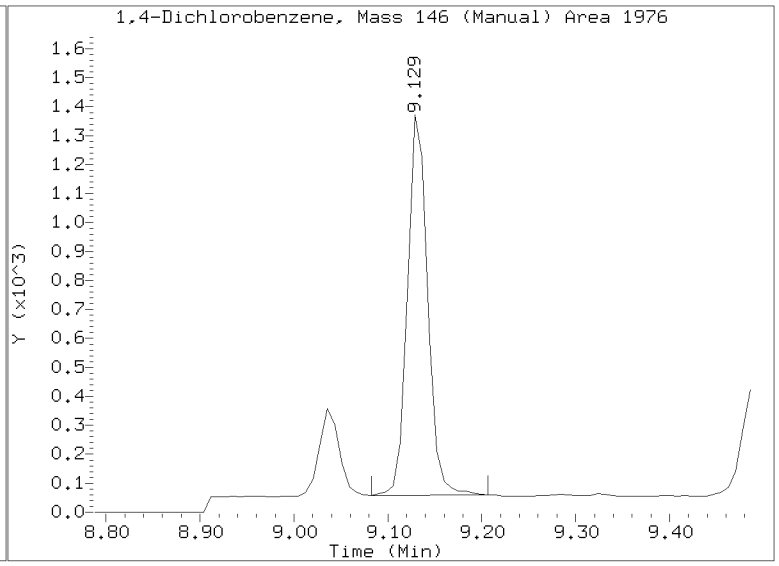
Exception: 1,2,4-Trichlorobenzene 0.0010

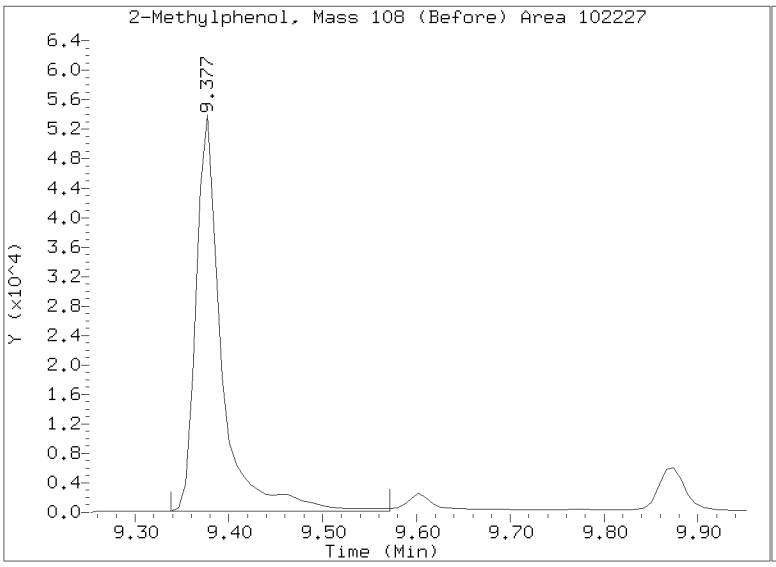
* Only compounds listed in the work order have been verified by the analyst *

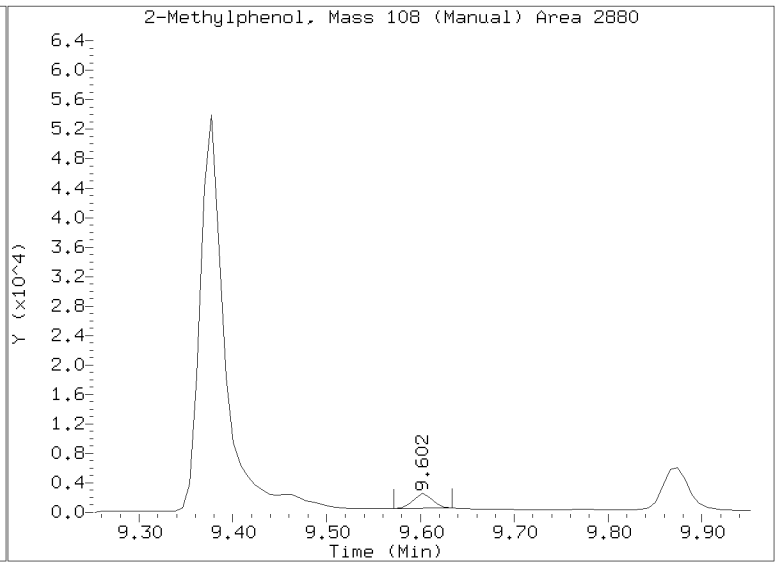
Quant Ion Manual Peak Adjustment Report

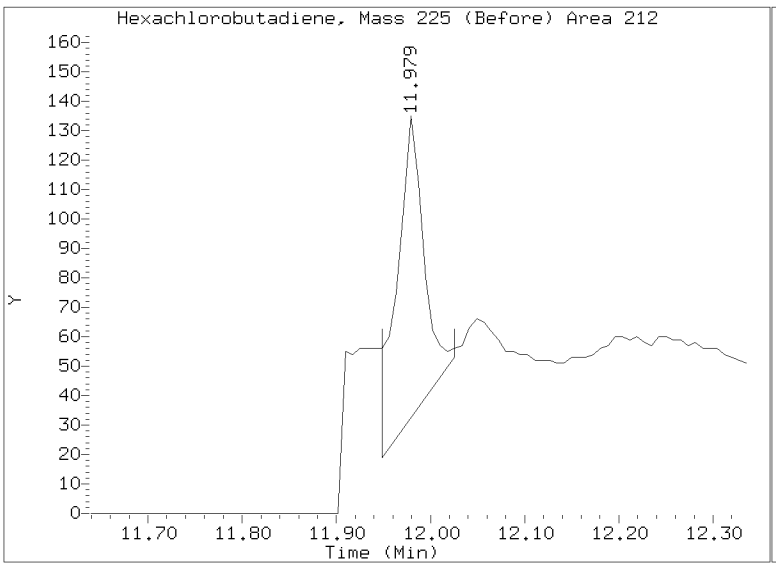
Datafile: //target/share/chem3/nt10.i/20230321.b/20230321.b/NT1003212310S.D
Injection Date: 21-MAR-2023 22:56
Lab ID:23C0071-01 Client ID:
Report Date: 03/29/2023 13:24

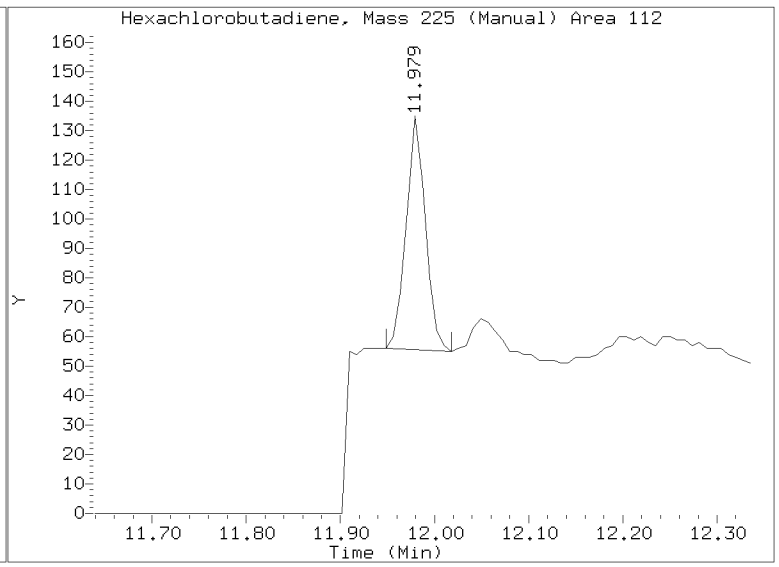






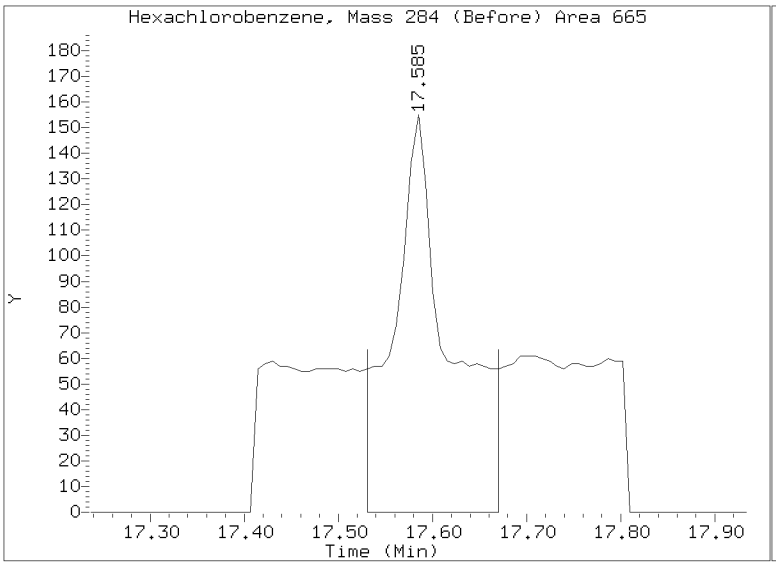


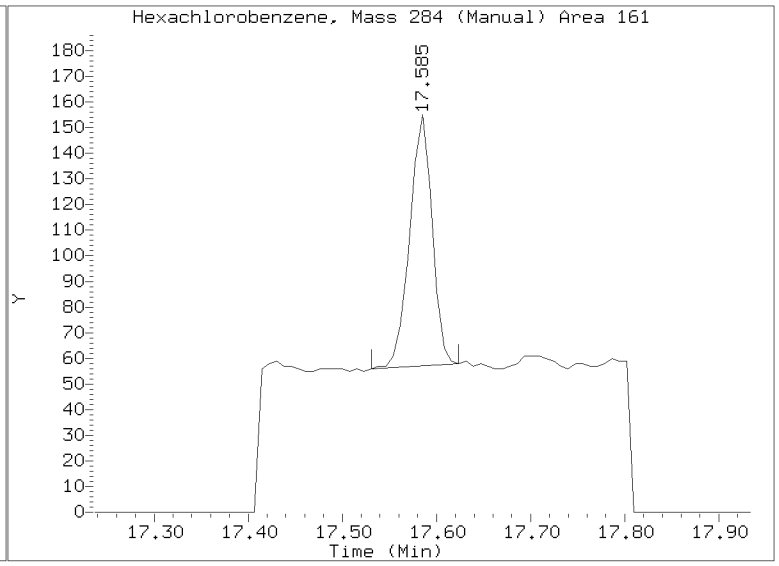




Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230321.b/20230321.b/NT1003212310S.D
Injection Date: 21-MAR-2023 22:56
Lab ID:23C0071-01 Client ID:
Report Date: 03/29/2023 13:24





Analytical Resources, LLC
Analytical Chemists and Consultants

LDW23-SS1037

Form I

ORGANIC ANALYSIS DATA SHEET

EPA 8270E-SIM

SIM SVOC Organics (Dual scan list)

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0071-02 A	SDG:	23C0071
Sampled:	03/02/23 09:56	Prepared:	03/07/23 10:21	File ID:	NT1003212311S.D
% Solids:	50.76	Preparation:	EPA 3546 (Microwave)	Analyzed:	03/21/23 23:35
Batch:	BLC0109	Sequence:	SLC0452	Initial/Final:	19.97 g Wet / 1 mL
Instrument:	NT10	Column:	ZB-5MSi	Calibration:	GC00049
Cleanups:	GPC				

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
106-46-7	1,4-Dichlorobenzene	1	1.1	J	0.6	4.9
95-50-1	1,2-Dichlorobenzene	1	4.9	U	0.7	4.9
100-51-6	Benzyl Alcohol	1	118		2.4	19.7
65-85-0	Benzoic acid	1	149		13.2	98.7
105-67-9	2,4-Dimethylphenol	1	2.5	J	2.1	19.7
120-82-1	1,2,4-Trichlorobenzene	1	4.9	U	2.6	4.9
86-30-6	N-Nitrosodiphenylamine	1	4.9	U	1.3	4.9
87-86-5	Pentachlorophenol	1	4.7	J	2.1	19.7

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorophenol	739.88	511	69.0	27 - 120	
p-Terphenyl-d14	493.25	482	97.8	37 - 120	

Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT10032123115.D

Date : 21-MAR-2023 23:35

Client ID:

Instrument: nt10.i

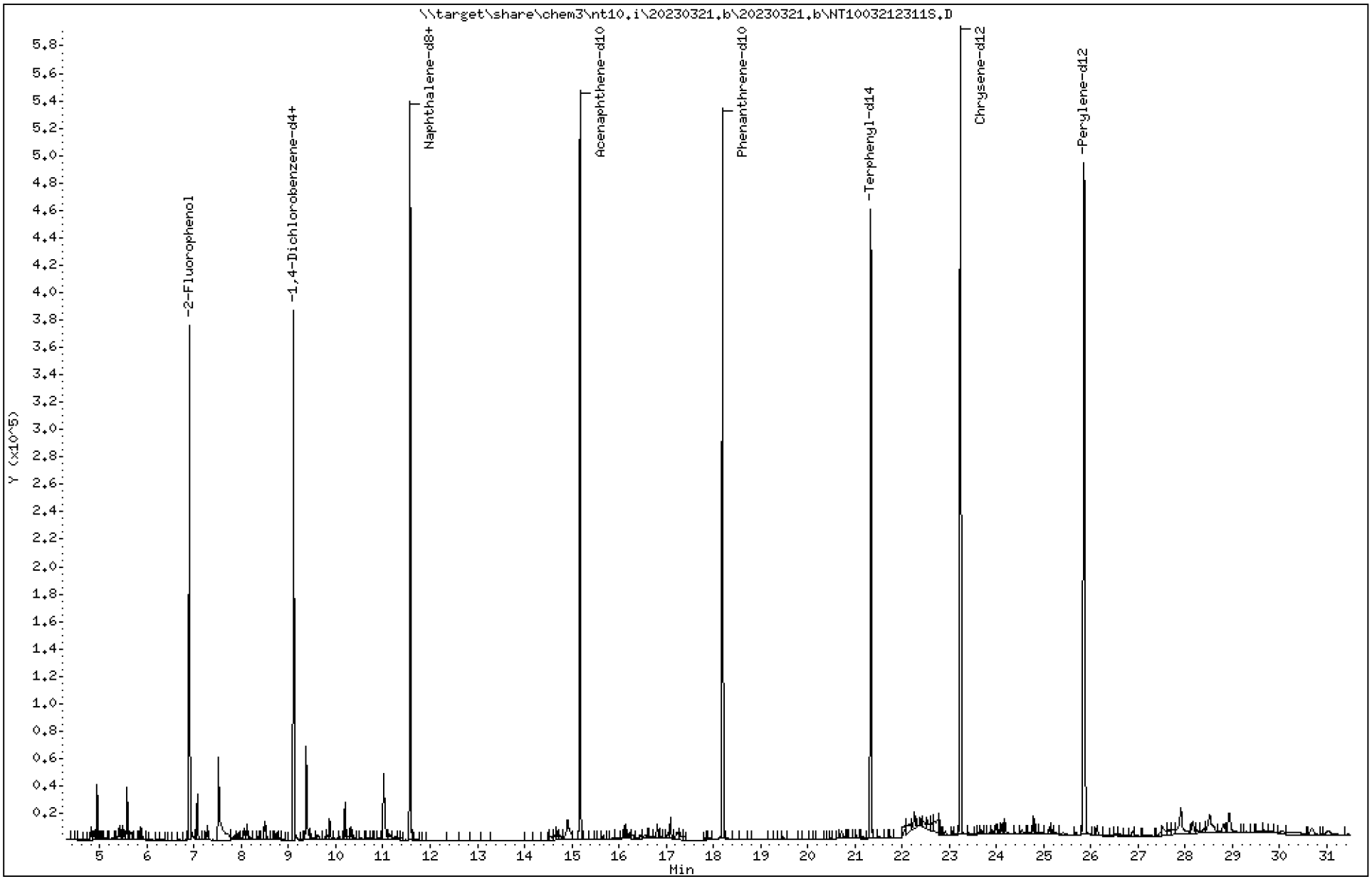
Sample Info: 23C0071-02

Volume Injected (uL): 1.0

Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25



Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212311S.D

Date : 21-MAR-2023 23:35

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-02

Volume Injected (uL): 1.0

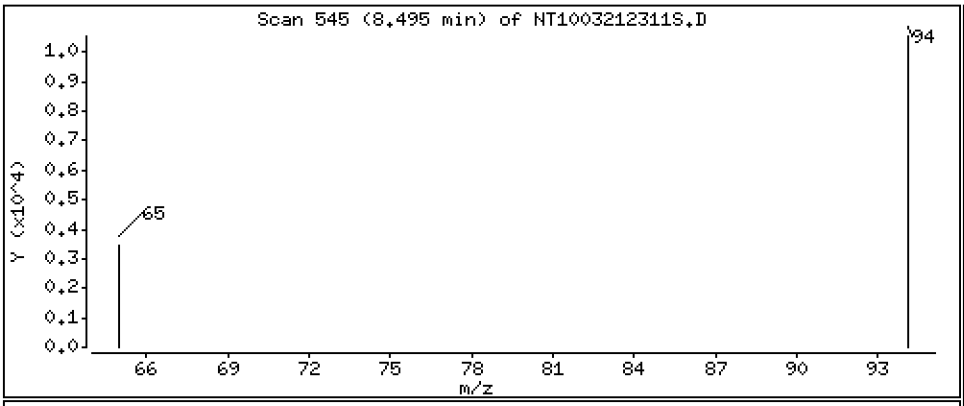
Operator: JGR

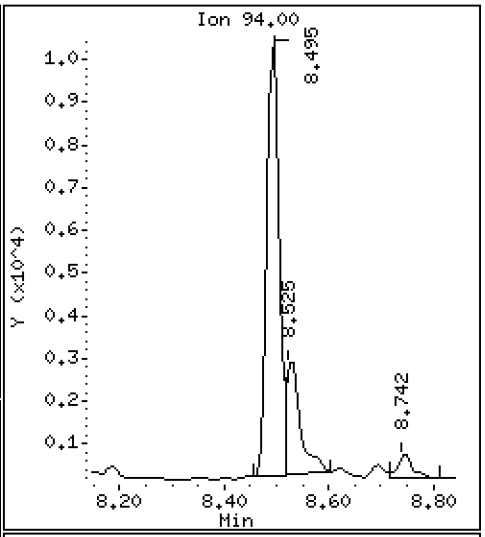
Column phase: ZB-5msi

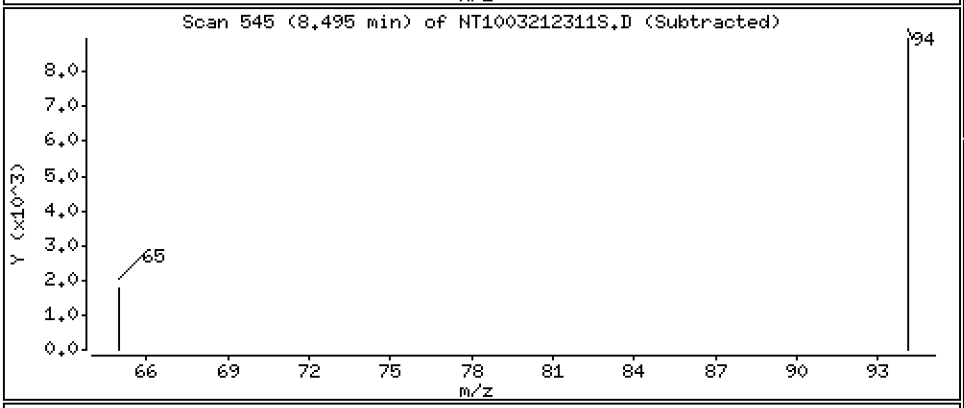
Column diameter: 0.25

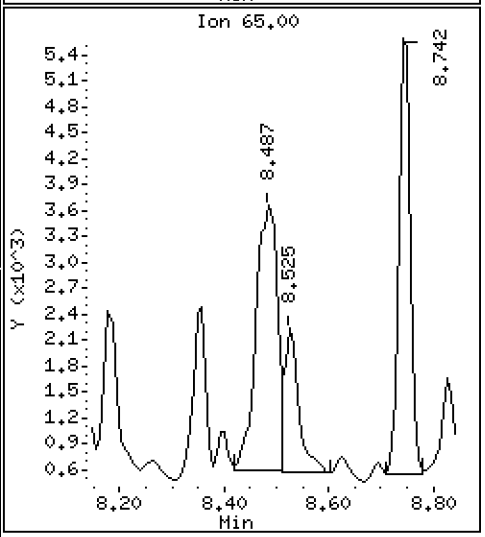
3 Phenol

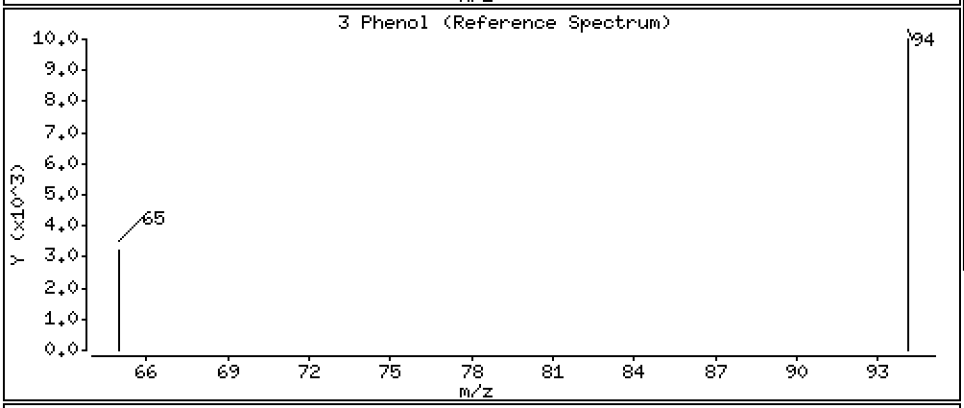
Concentration: 0.1652 ug/L

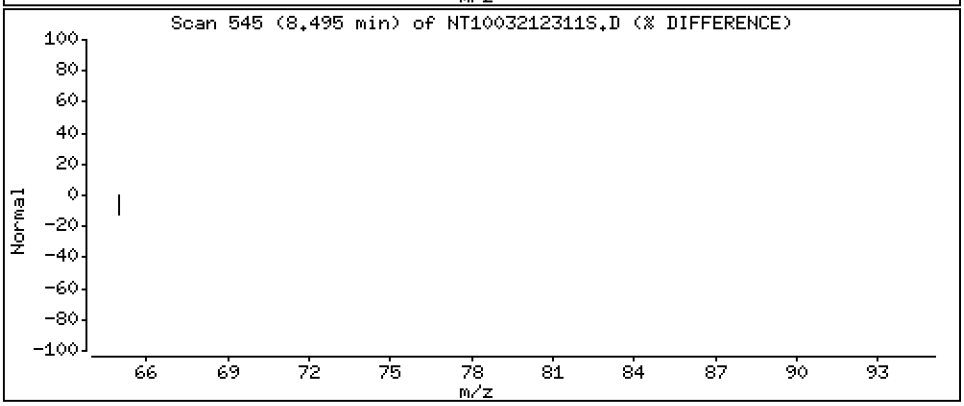












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212311S.D

Date : 21-MAR-2023 23:35

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-02

Volume Injected (uL): 1.0

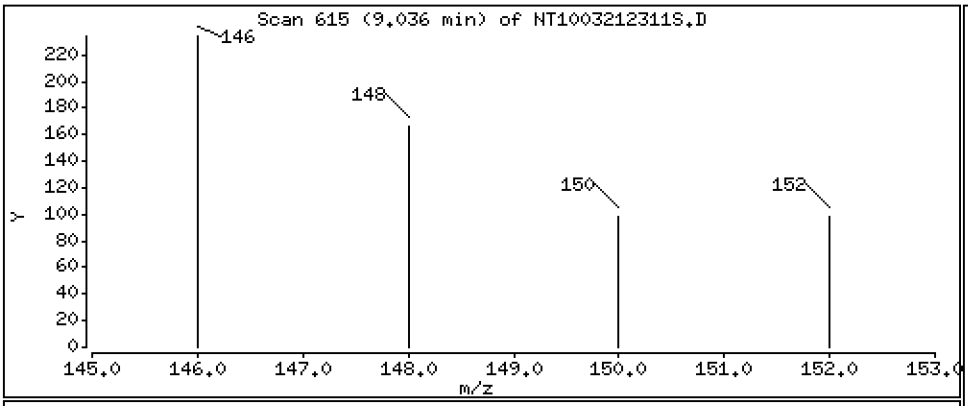
Operator: JGR

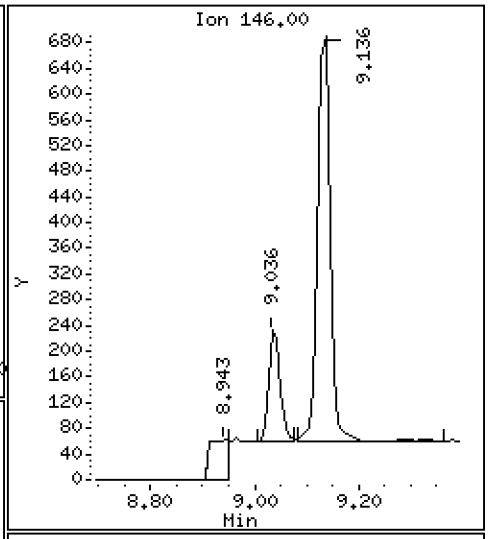
Column phase: ZB-5msi

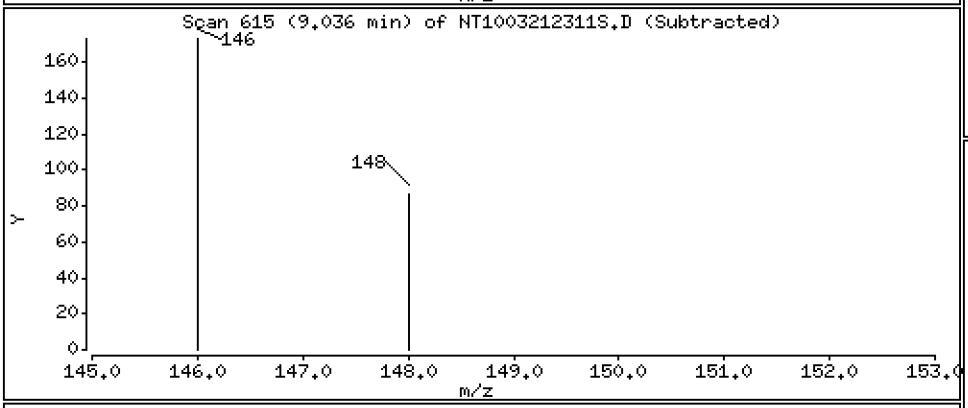
Column diameter: 0.25

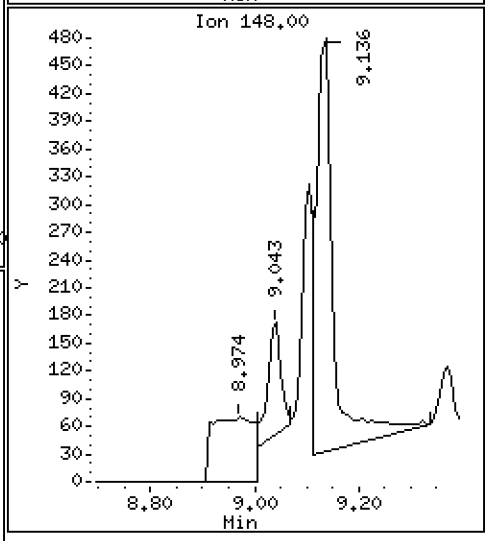
7 1,3-Dichlorobenzene

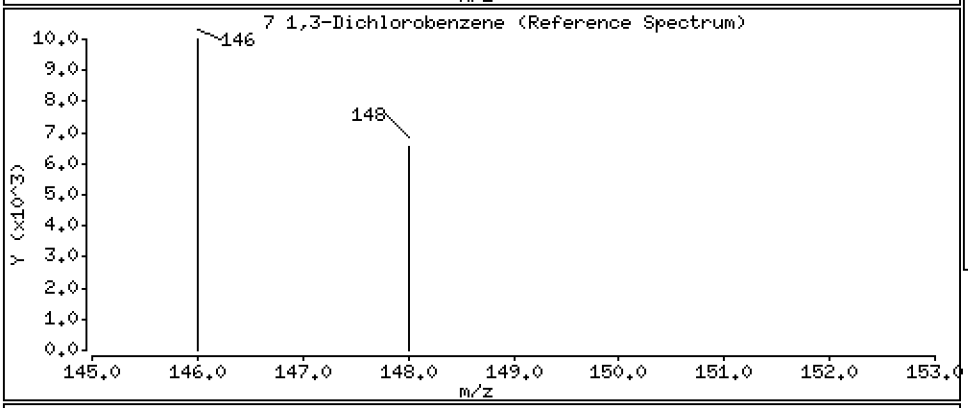
Concentration: 0.002908 ug/L

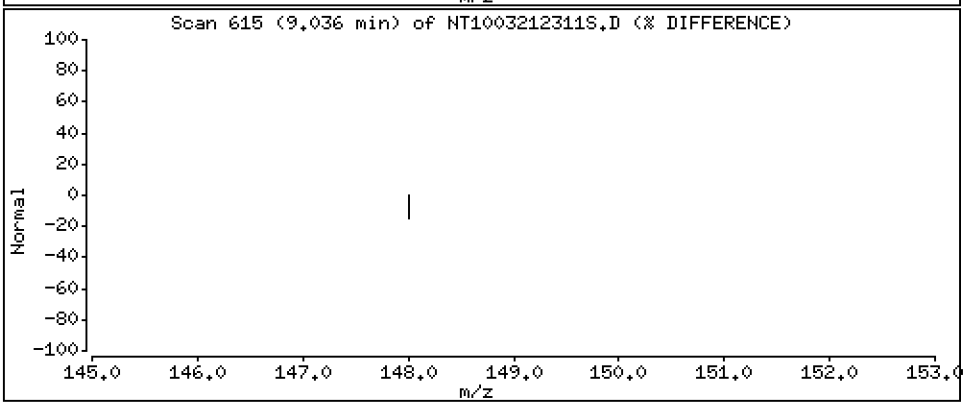












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212311S.D

Date : 21-MAR-2023 23:35

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-02

Volume Injected (uL): 1.0

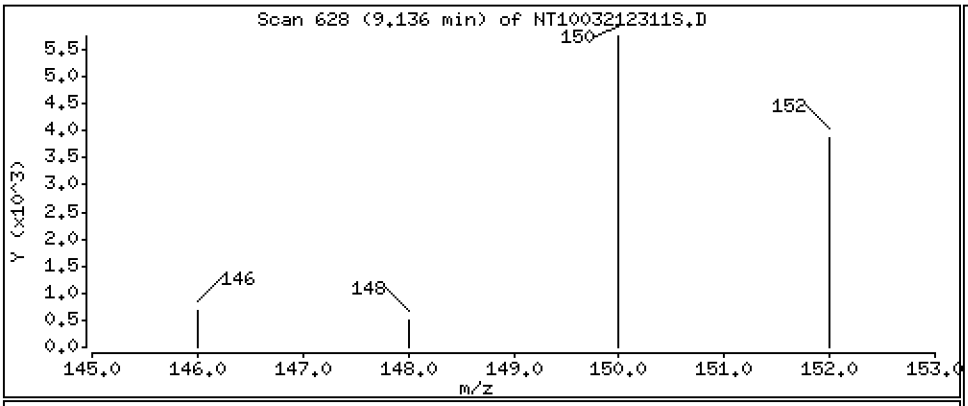
Operator: JGR

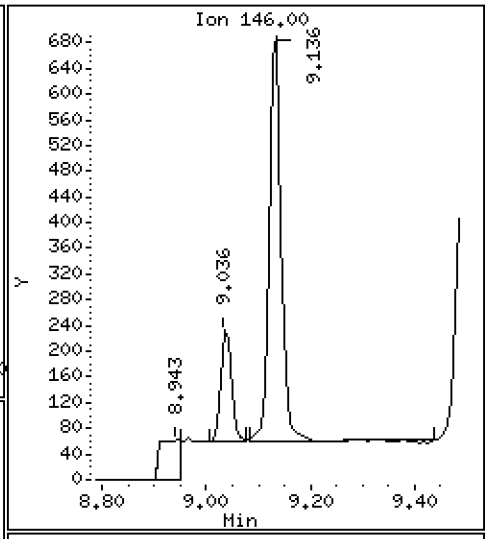
Column phase: ZB-5msi

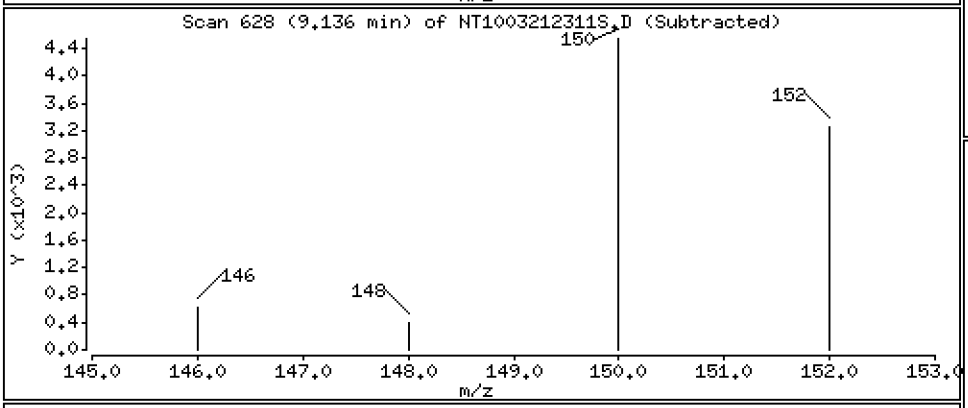
Column diameter: 0.25

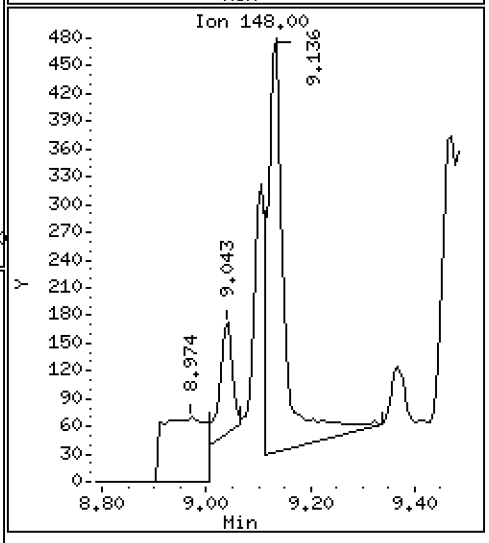
9 1,4-Dichlorobenzene

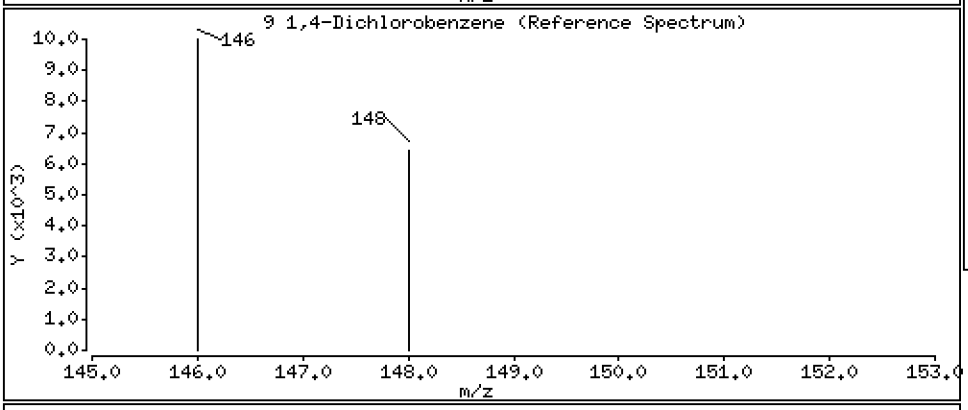
Concentration: 0.01110 ug/L

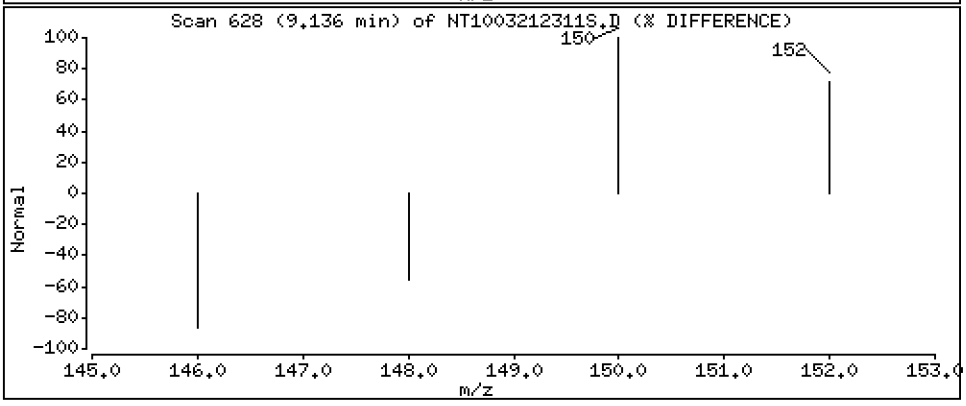












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212311S.D

Date : 21-MAR-2023 23:35

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-02

Volume Injected (uL): 1.0

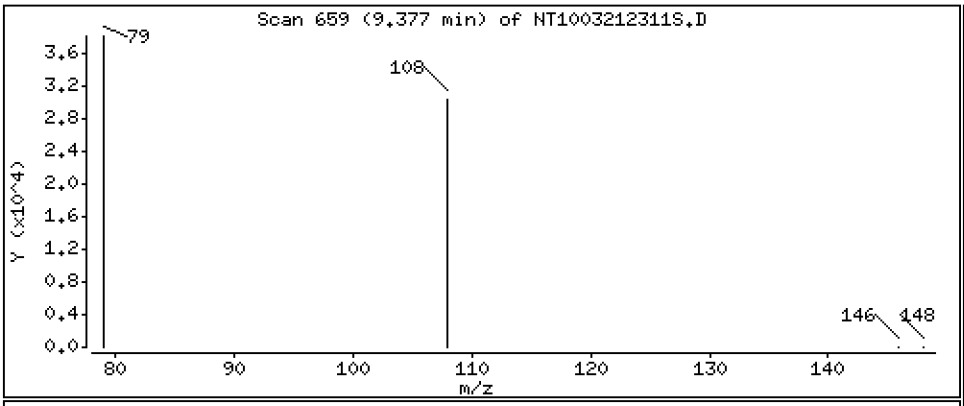
Operator: JGR

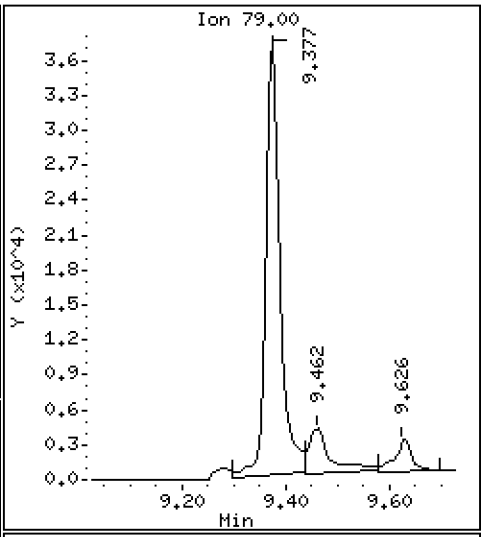
Column phase: ZB-5msi

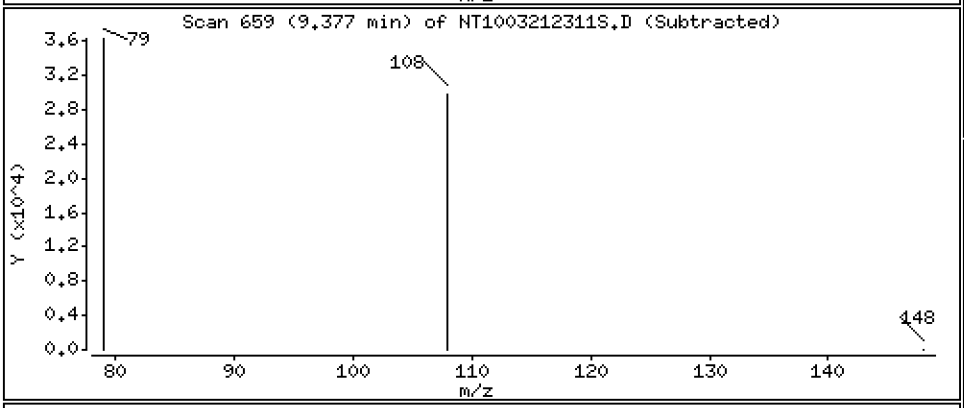
Column diameter: 0.25

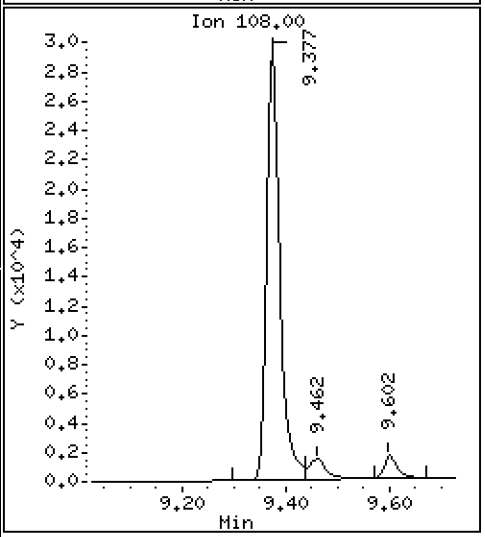
11 Benzyl alcohol

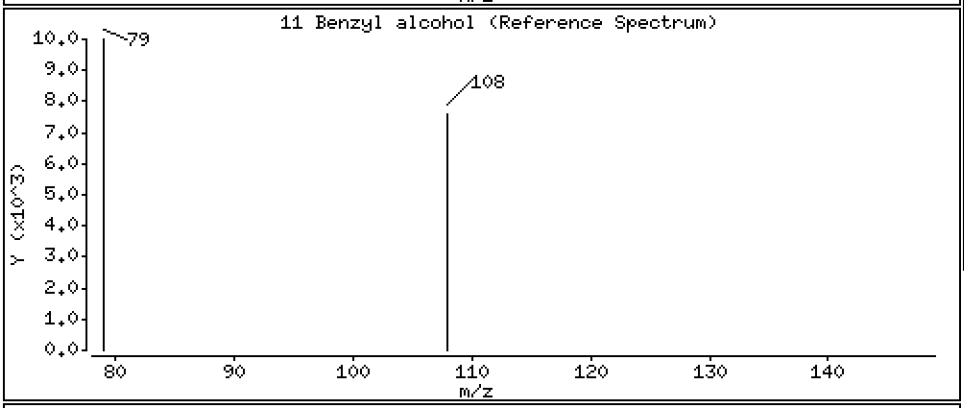
Concentration: 1.199 ug/L

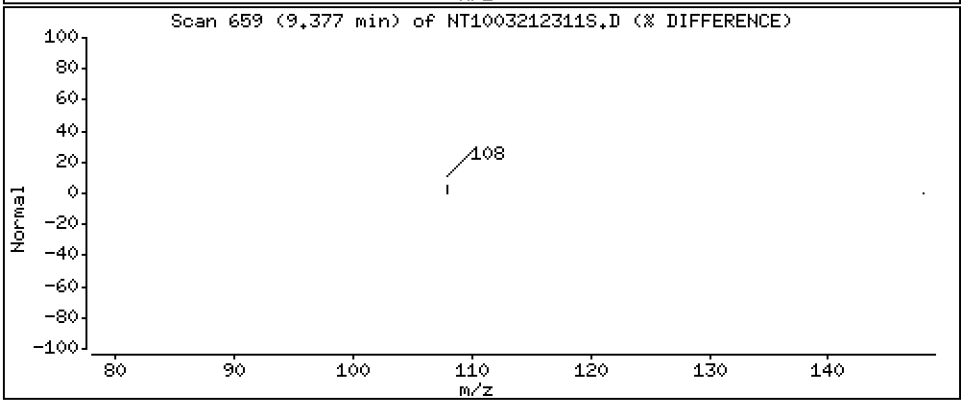












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212311S.D

Date : 21-MAR-2023 23:35

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-02

Volume Injected (uL): 1.0

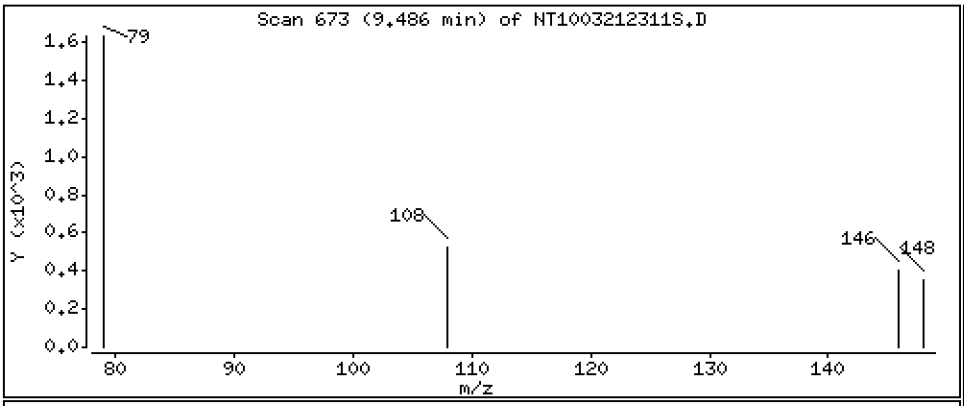
Operator: JGR

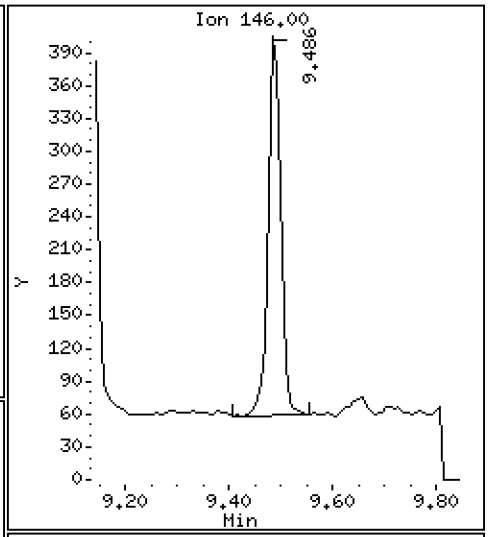
Column phase: ZB-5msi

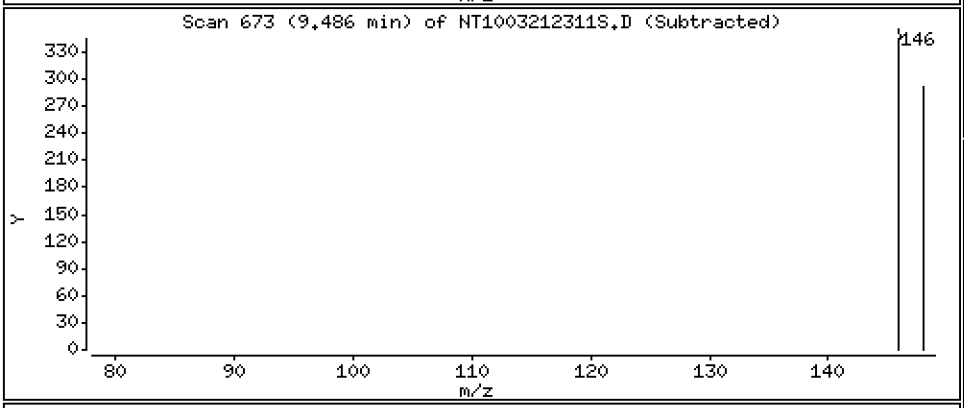
Column diameter: 0.25

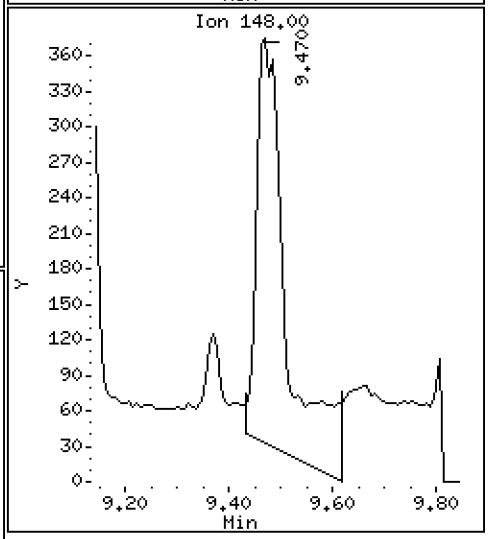
12 1,2-Dichlorobenzene

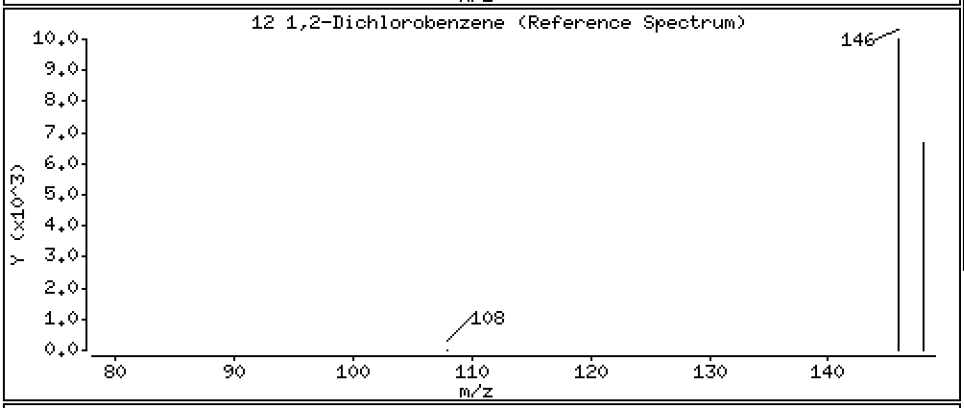
Concentration: 0.006475 ug/L

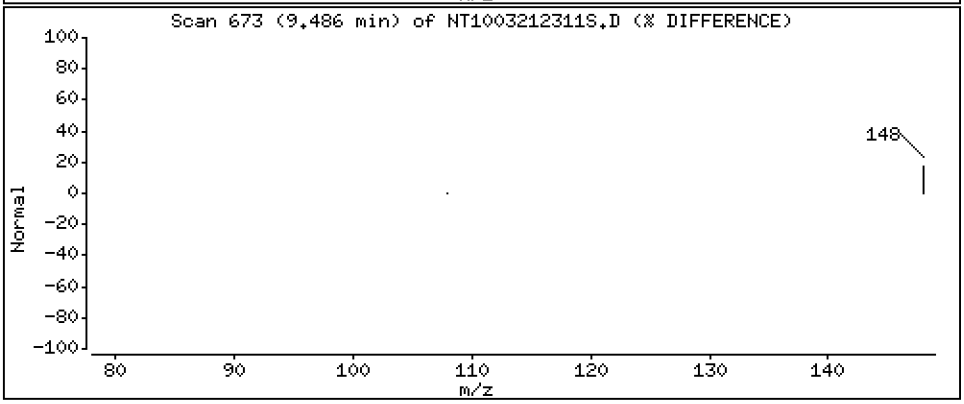












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212311S.D

Date : 21-MAR-2023 23:35

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-02

Volume Injected (uL): 1.0

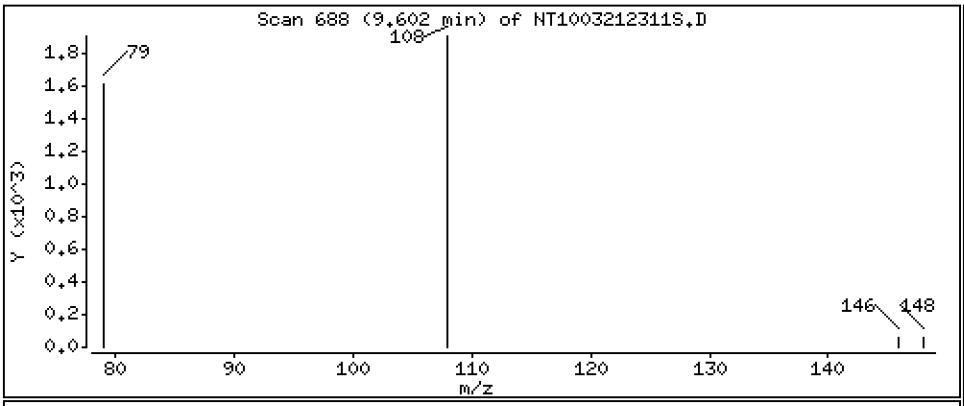
Operator: JGR

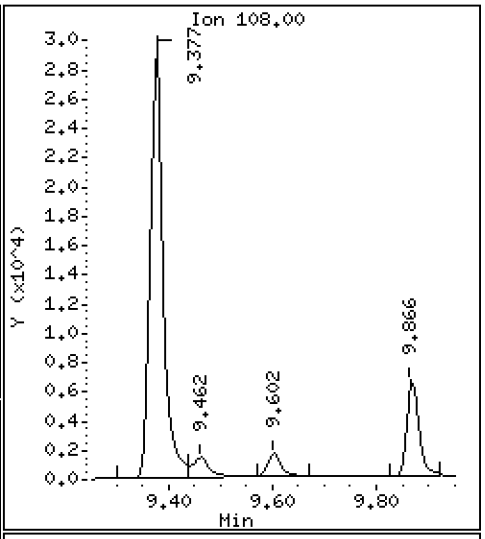
Column phase: ZB-5msi

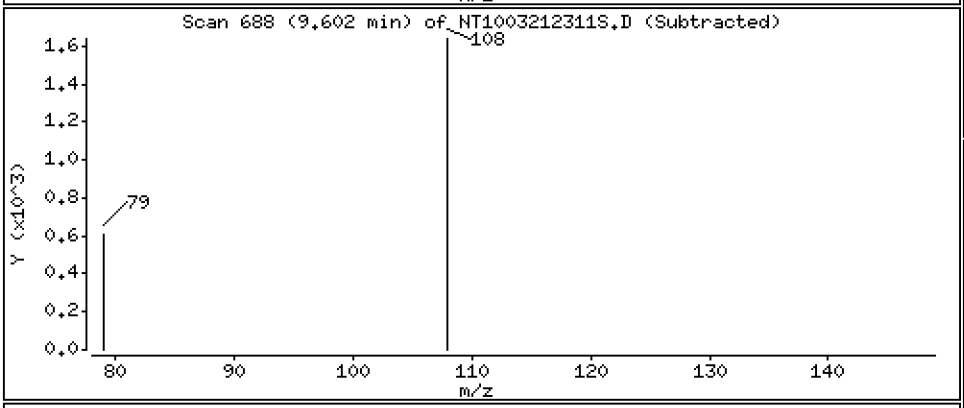
Column diameter: 0.25

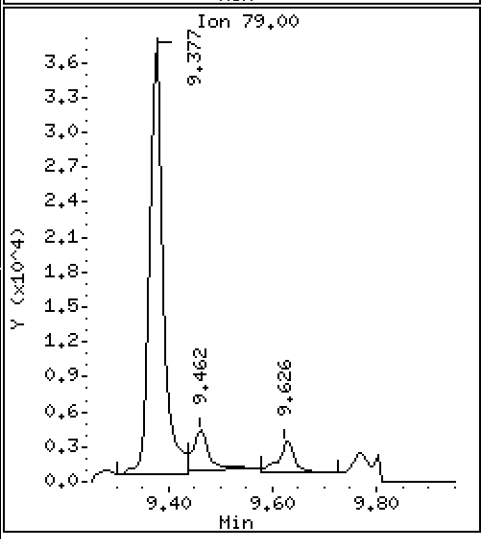
13 2-Methylphenol

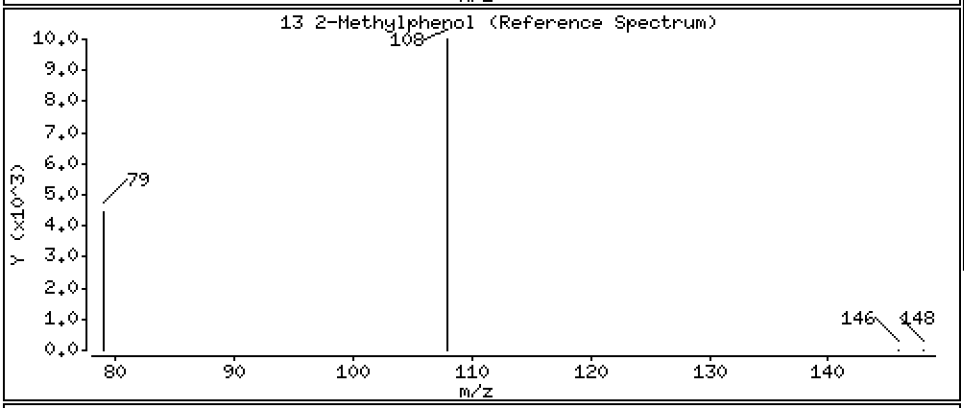
Concentration: 0.04147 ug/L

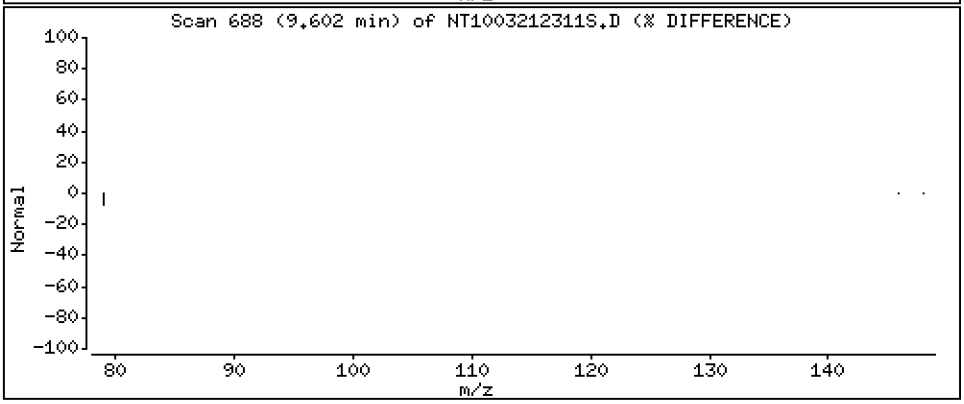












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212311S.D

Date : 21-MAR-2023 23:35

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-02

Volume Injected (uL): 1.0

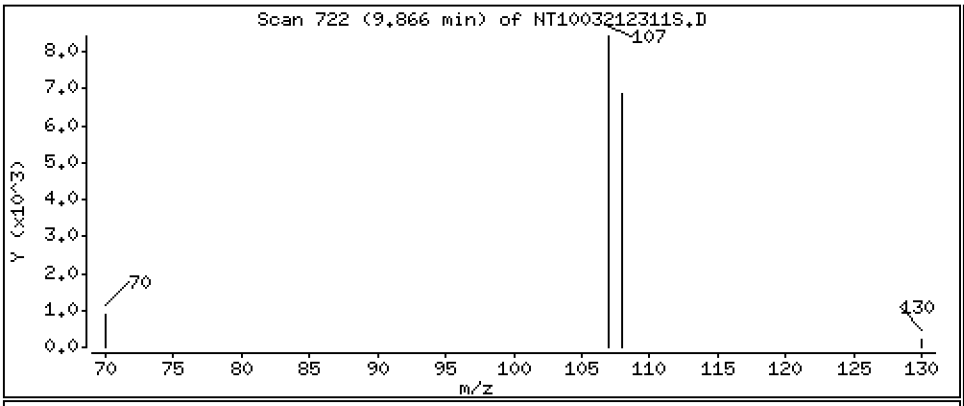
Operator: JGR

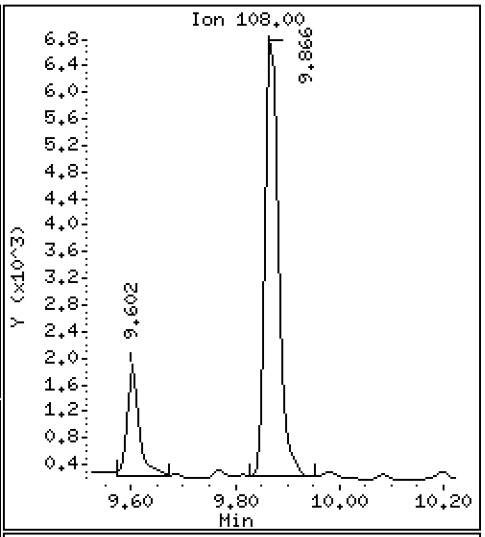
Column phase: ZB-5msi

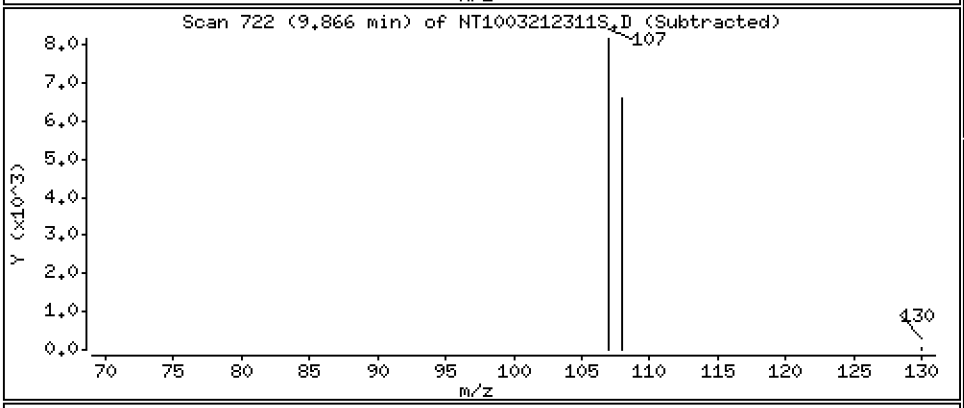
Column diameter: 0.25

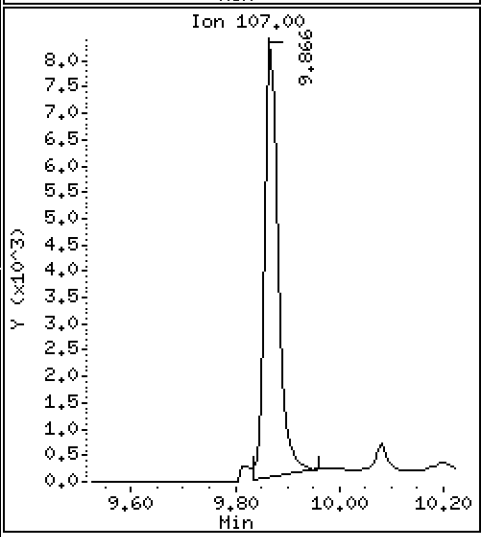
15 4-Methylphenol

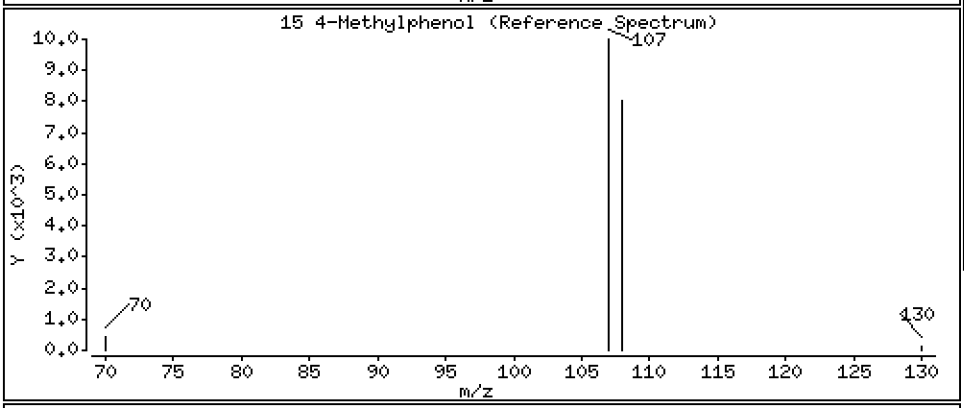
Concentration: 0.1620 ug/L

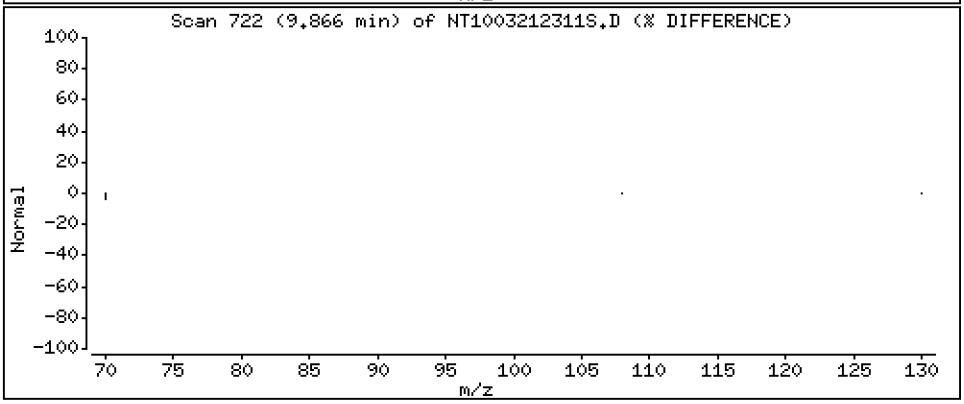












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT10032123115.D

Date : 21-MAR-2023 23:35

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-02

Volume Injected (uL): 1.0

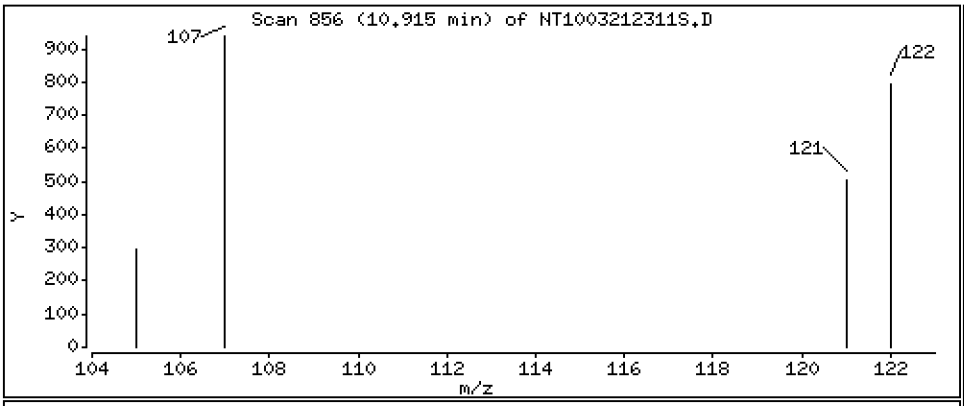
Operator: JGR

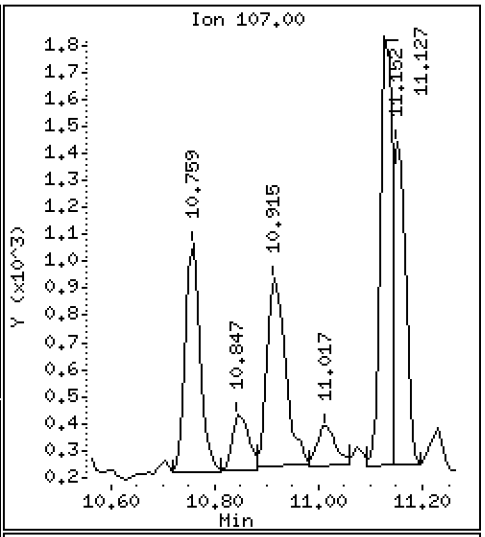
Column phase: ZB-5msi

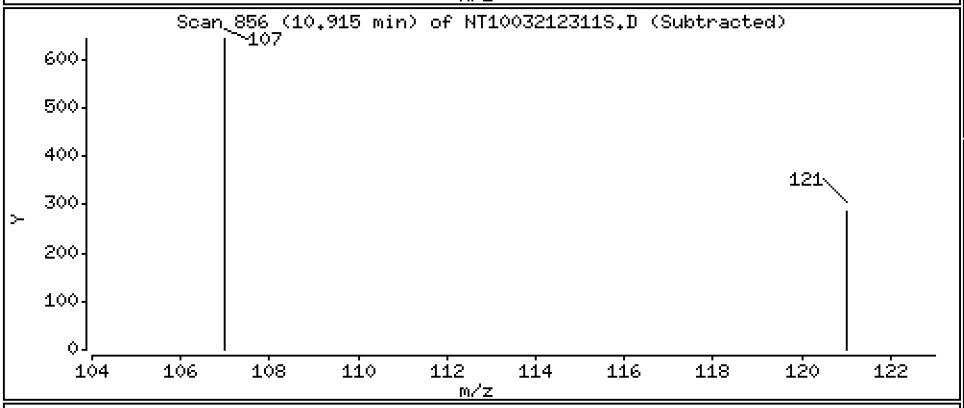
Column diameter: 0.25

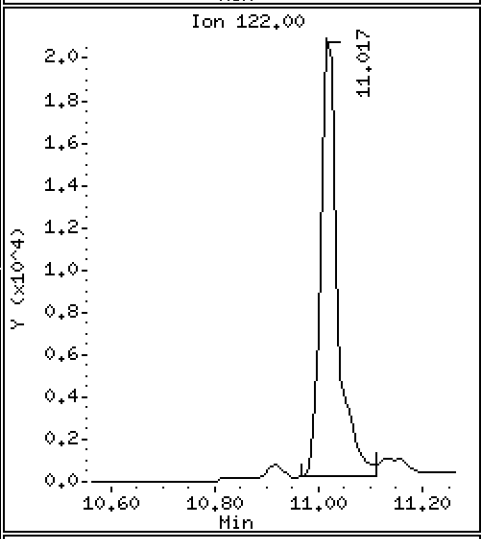
22 2,4-Dimethylphenol

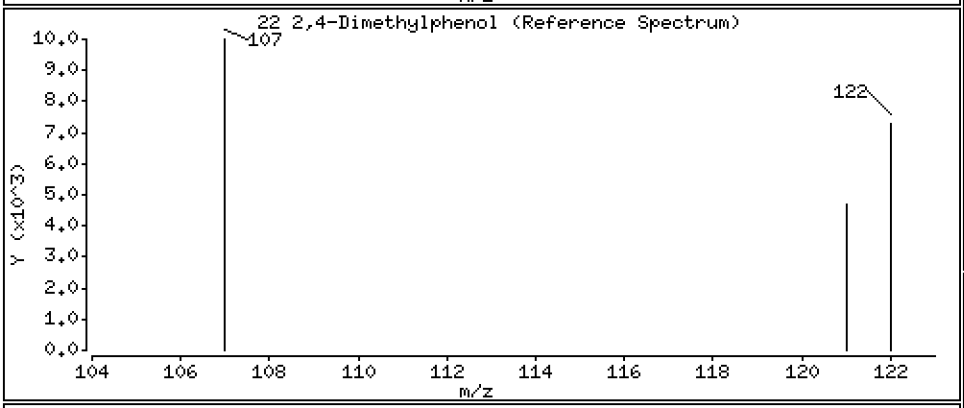
Concentration: 0.02491 ug/L

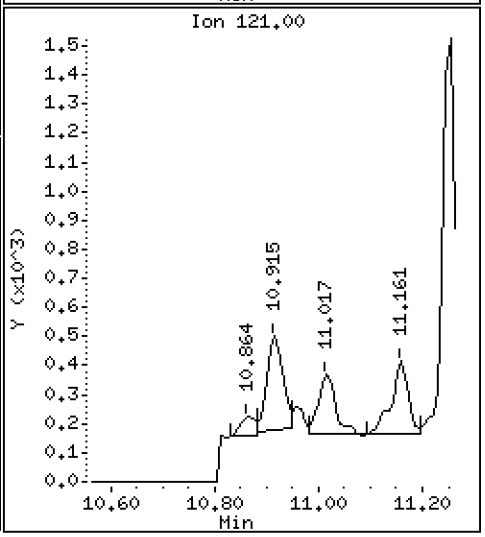


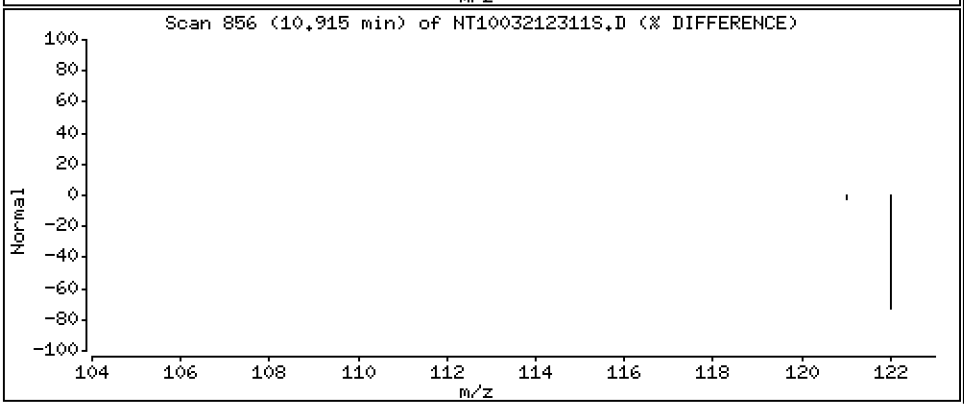












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT10032123115.D

Date : 21-MAR-2023 23:35

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-02

Volume Injected (uL): 1.0

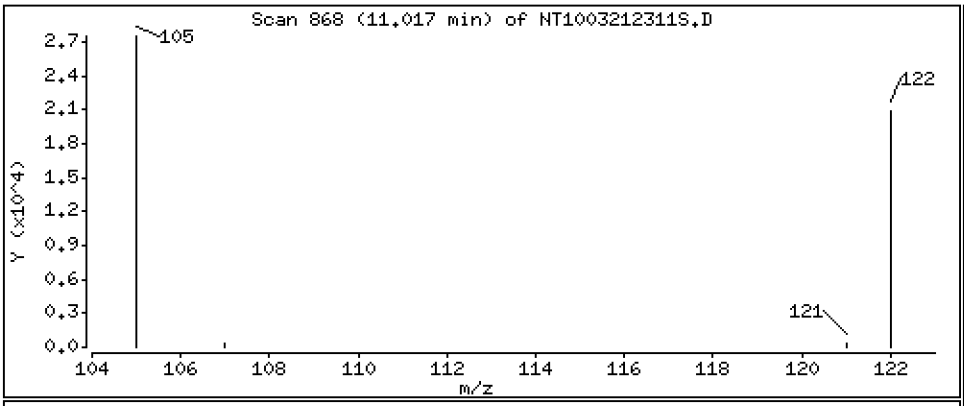
Operator: JGR

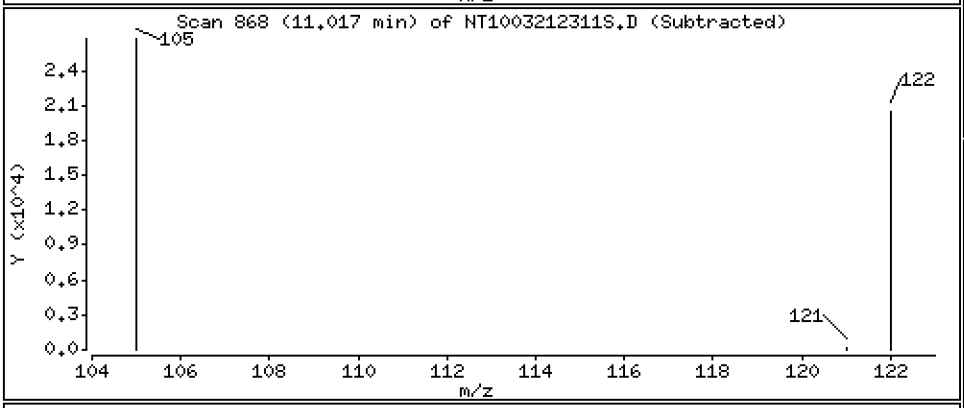
Column phase: ZB-5msi

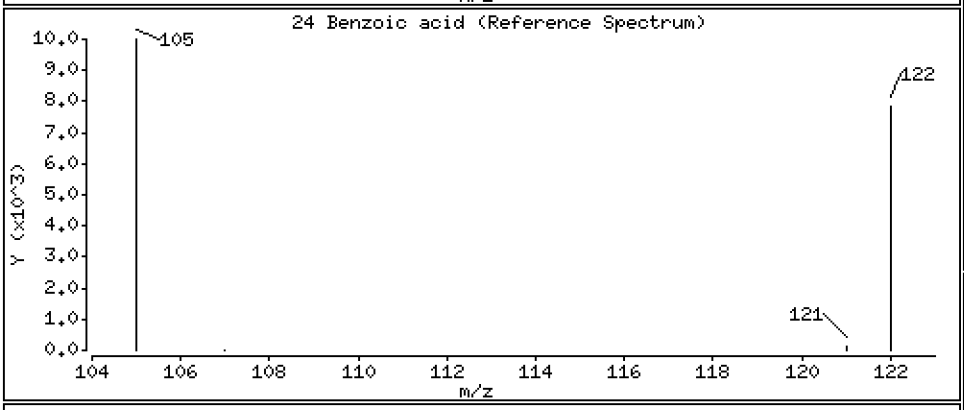
Column diameter: 0.25

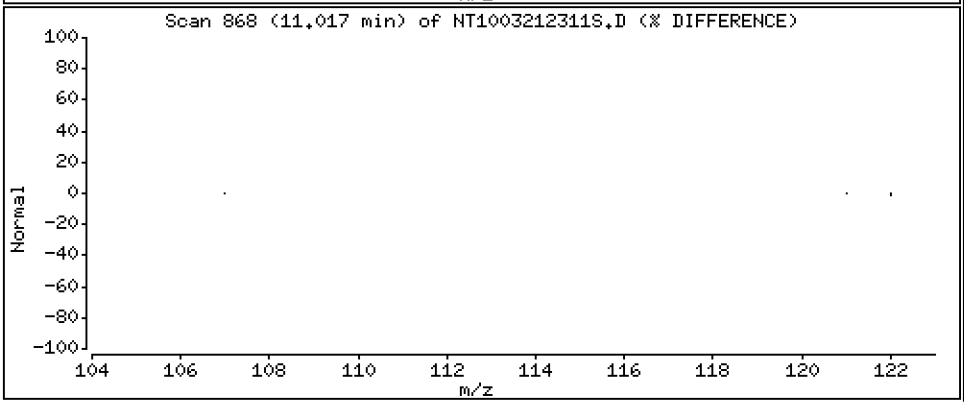
24 Benzoic acid

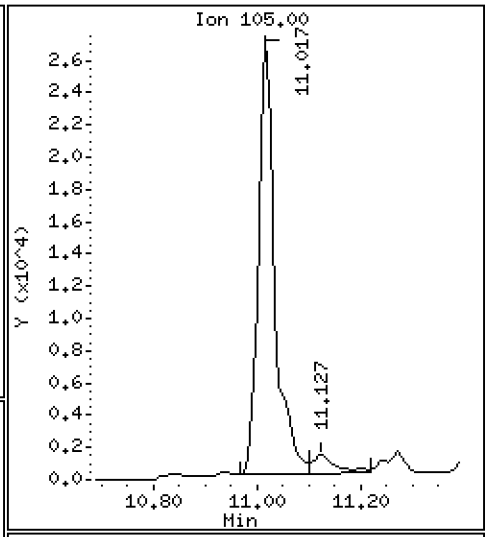
Concentration: 1.505 ug/L

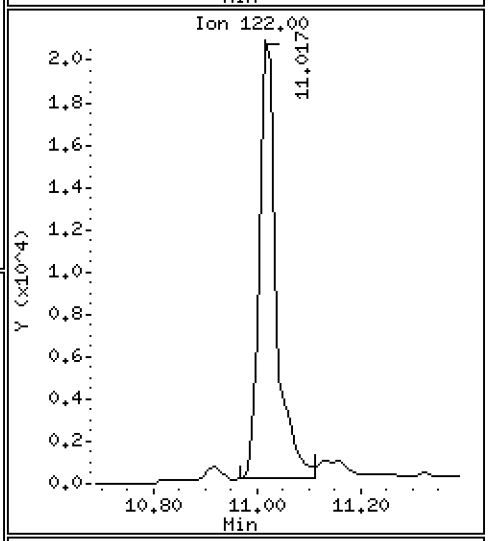


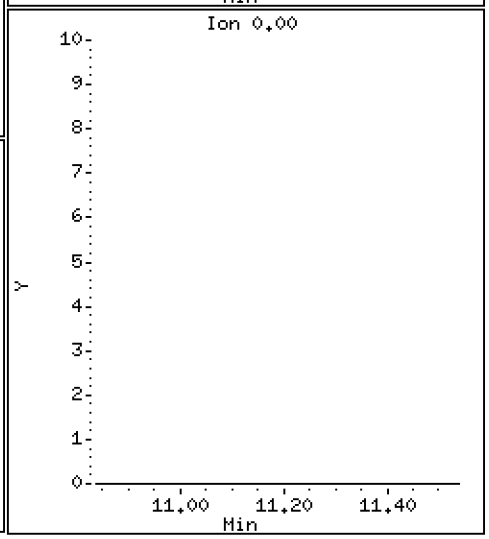












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT10032123115.D

Date : 21-MAR-2023 23:35

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-02

Volume Injected (uL): 1.0

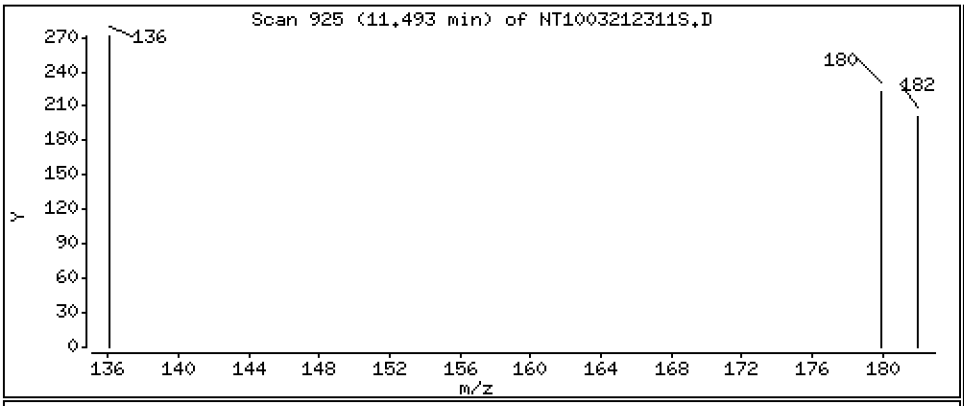
Operator: JGR

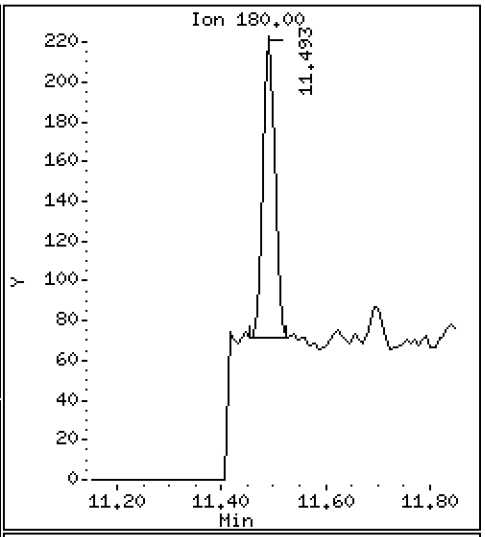
Column phase: ZB-5msi

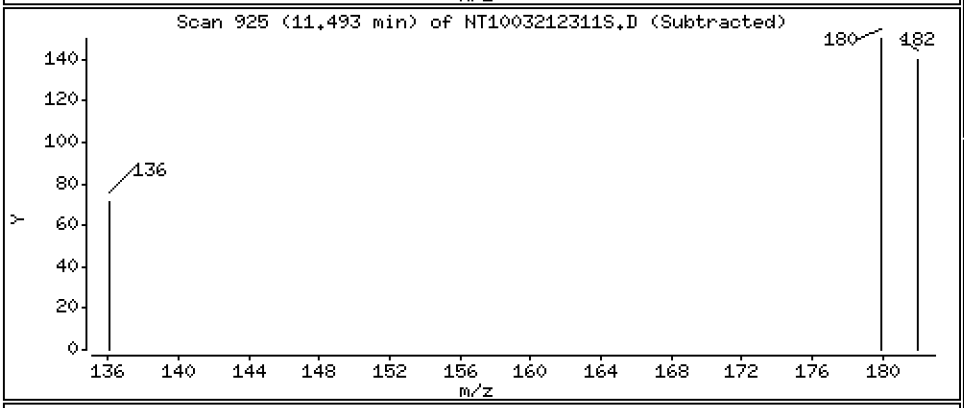
Column diameter: 0.25

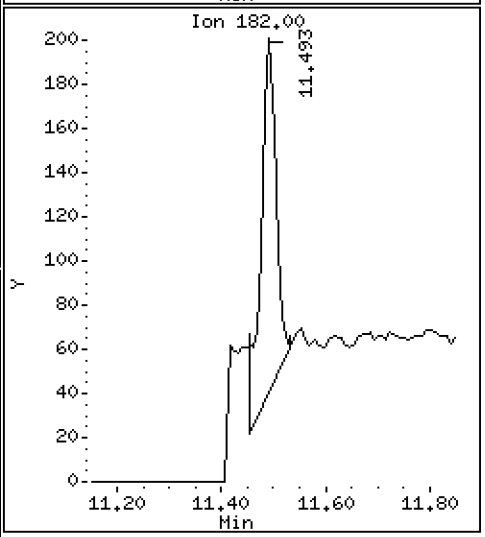
26 1,2,4-Trichlorobenzene

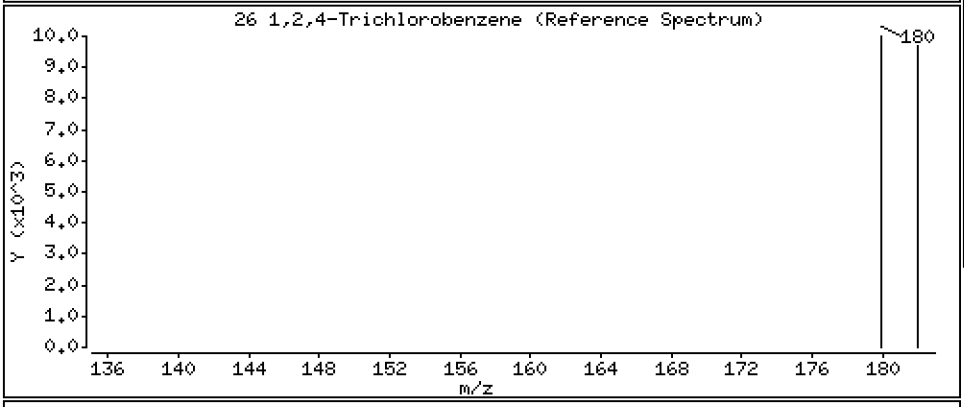
Concentration: 0.003111 ug/L

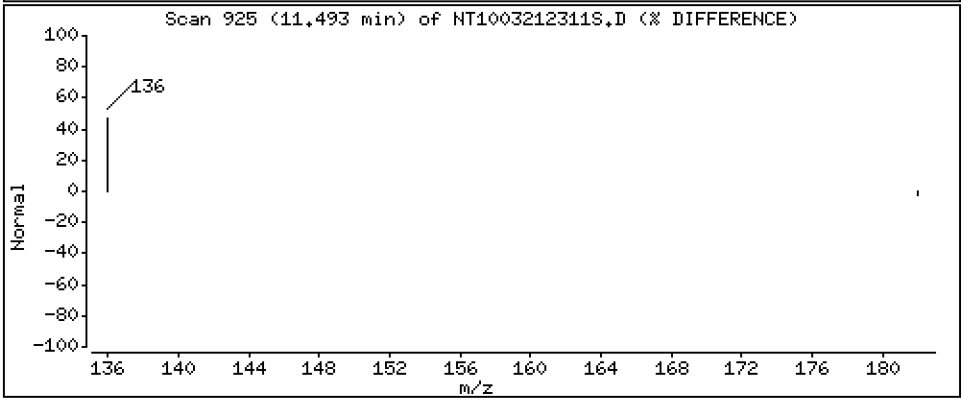












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT10032123115.D

Date : 21-MAR-2023 23:35

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-02

Volume Injected (uL): 1.0

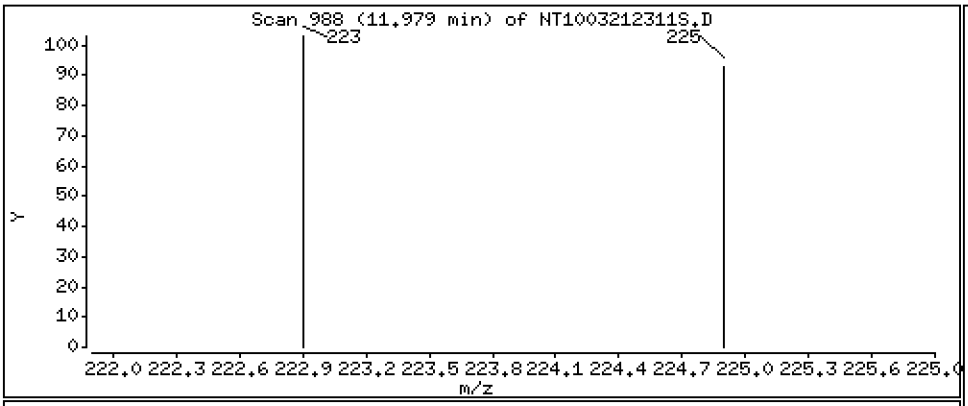
Operator: JGR

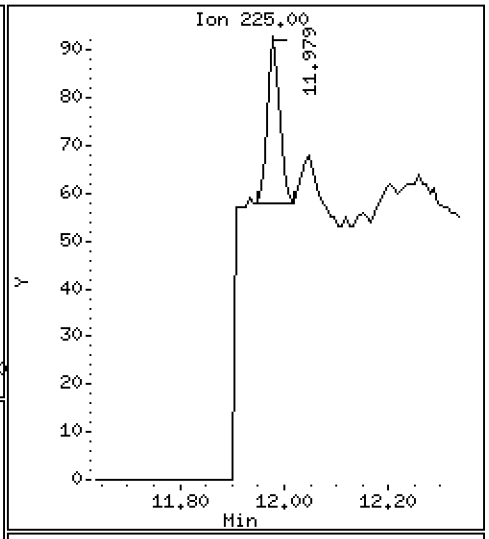
Column phase: ZB-5msi

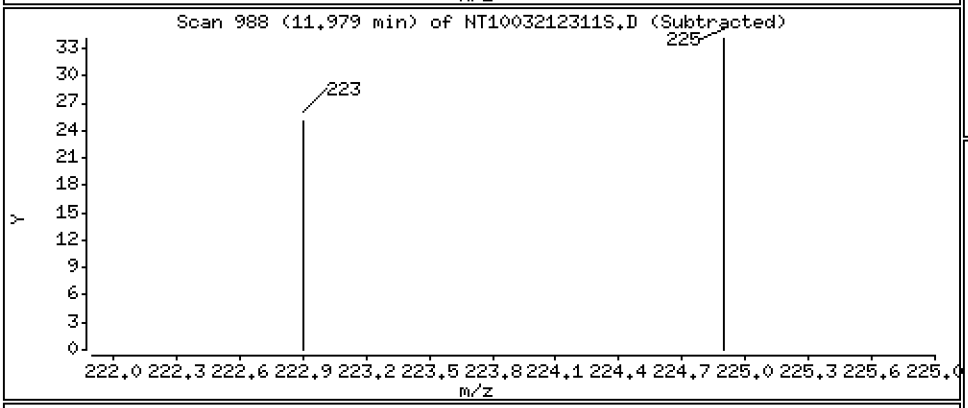
Column diameter: 0.25

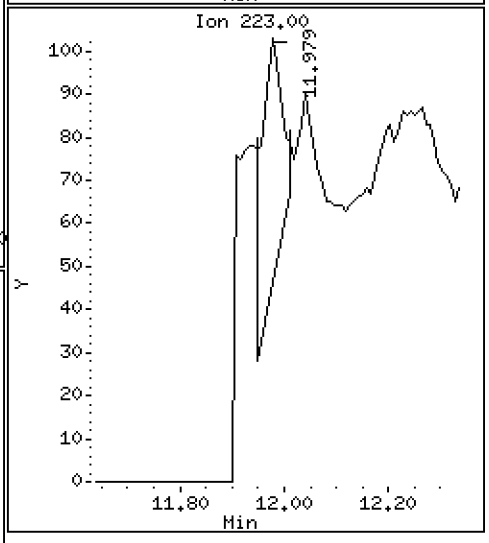
30 Hexachlorobutadiene

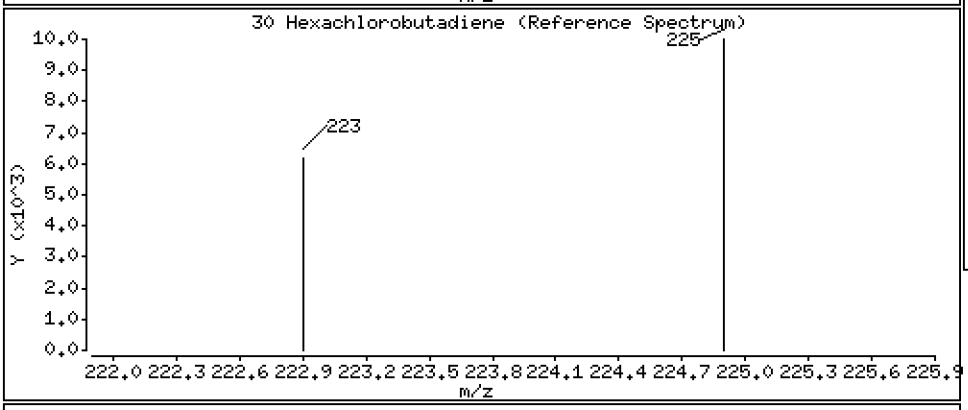
Concentration: 0.001234 ug/L

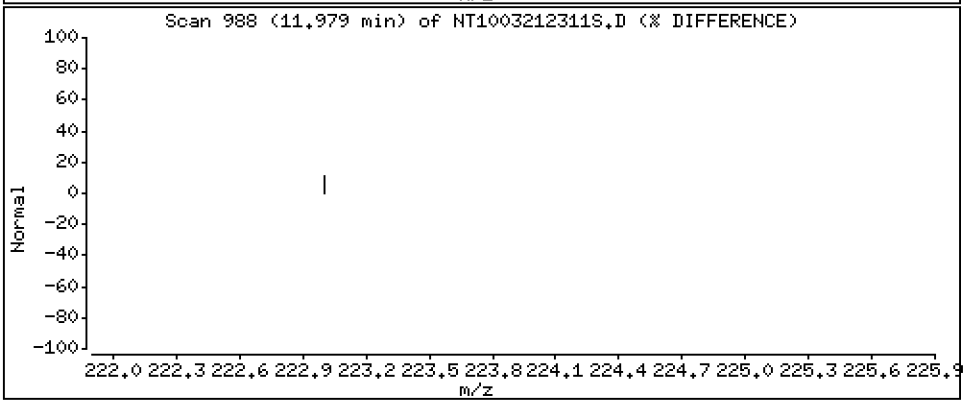












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212311S.D

Date : 21-MAR-2023 23:35

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-02

Volume Injected (uL): 1.0

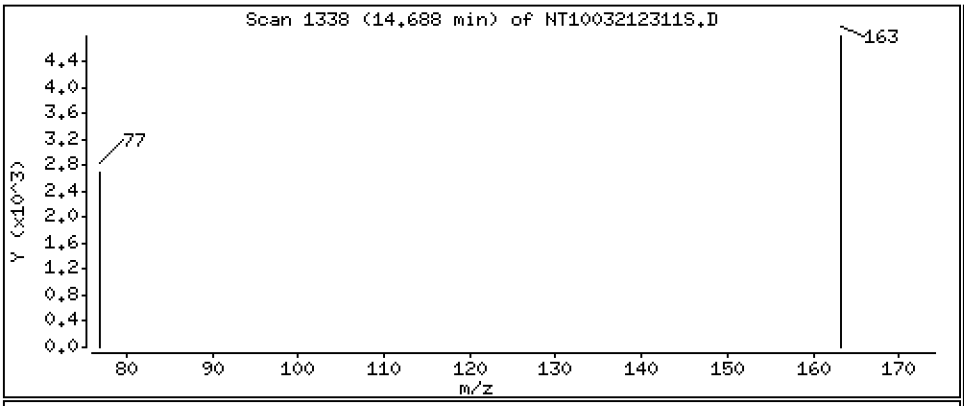
Operator: JGR

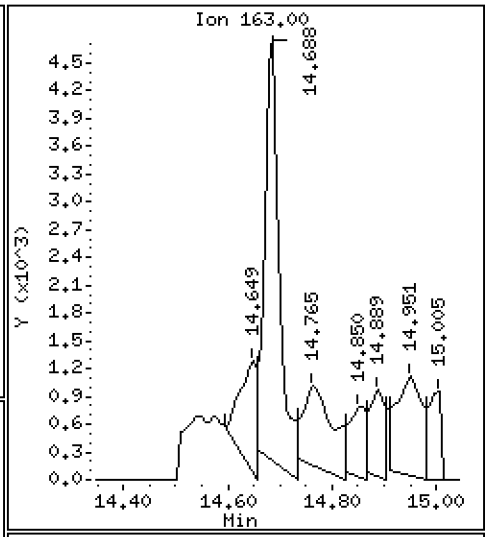
Column phase: ZB-5msi

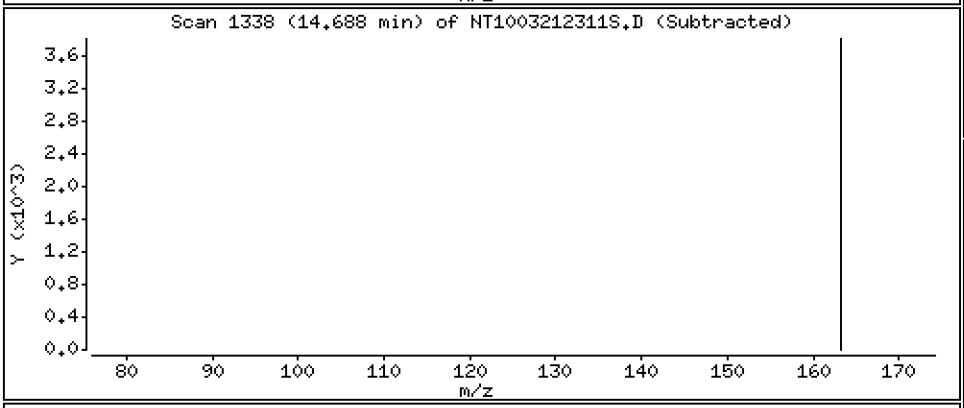
Column diameter: 0.25

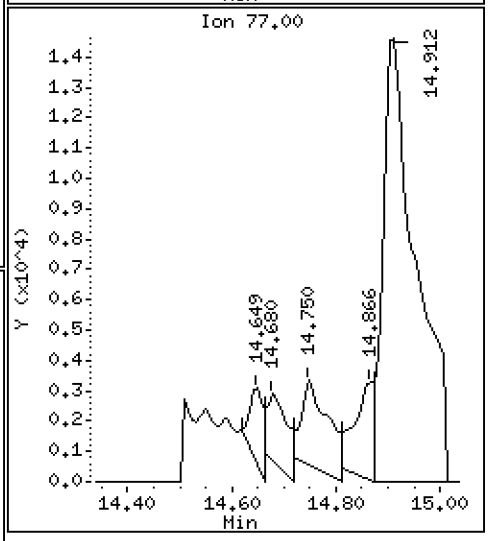
39 Dimethylphthalate

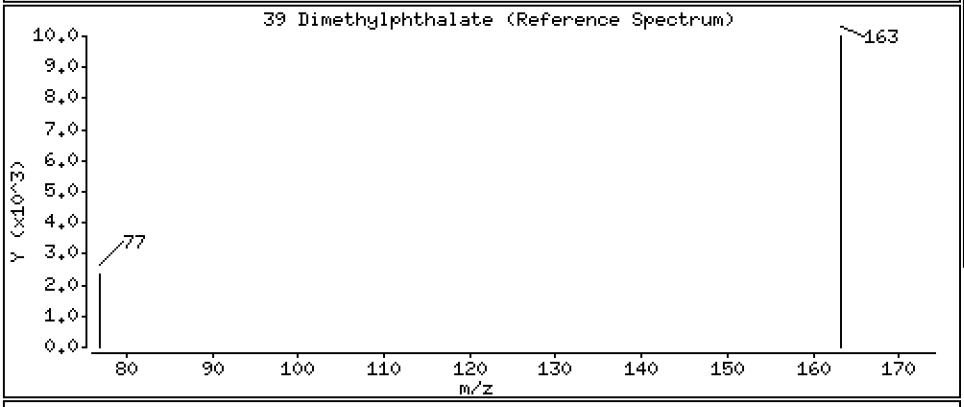
Concentration: 0.07244 ug/L

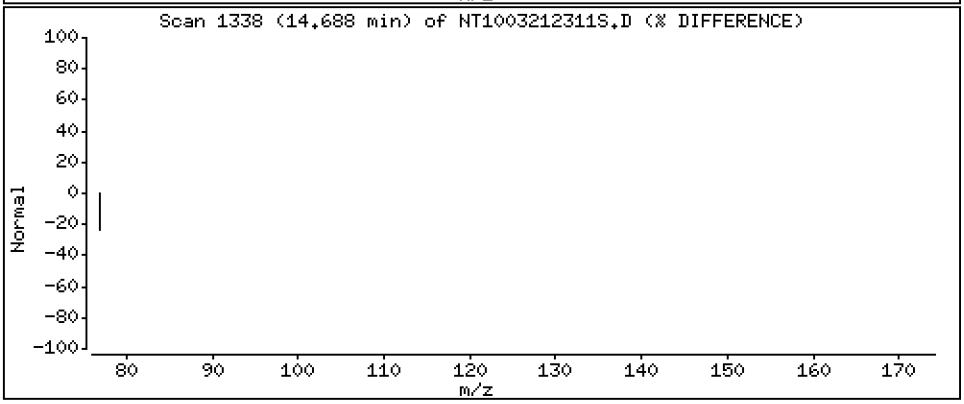












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212311S.D

Date : 21-MAR-2023 23:35

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-02

Volume Injected (uL): 1.0

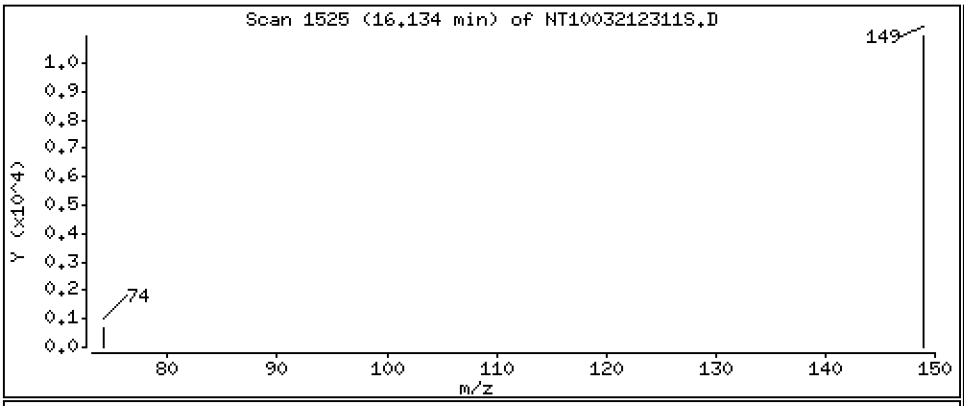
Operator: JGR

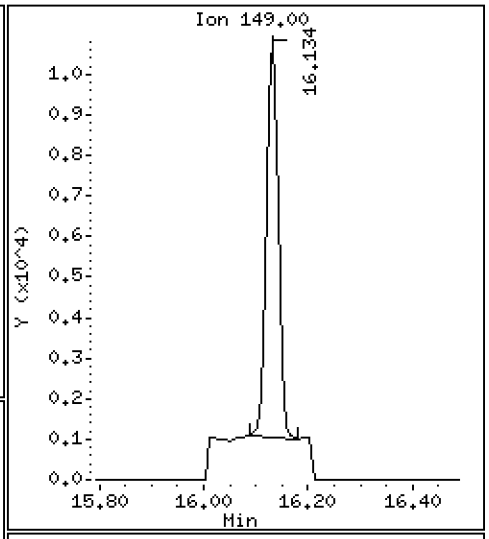
Column phase: ZB-5msi

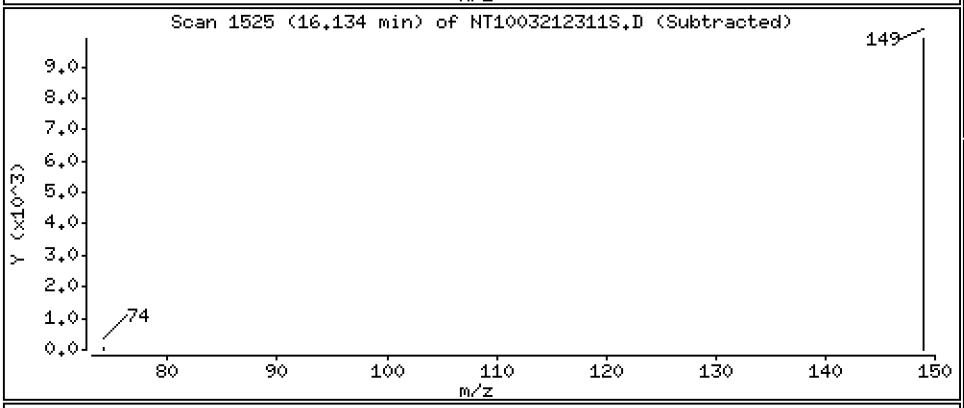
Column diameter: 0.25

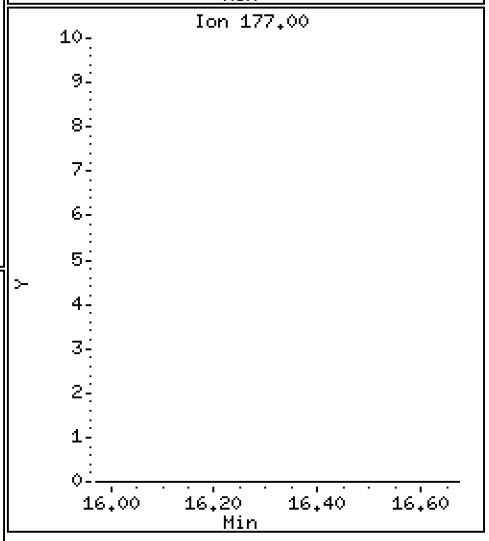
50 Diethylphthalate

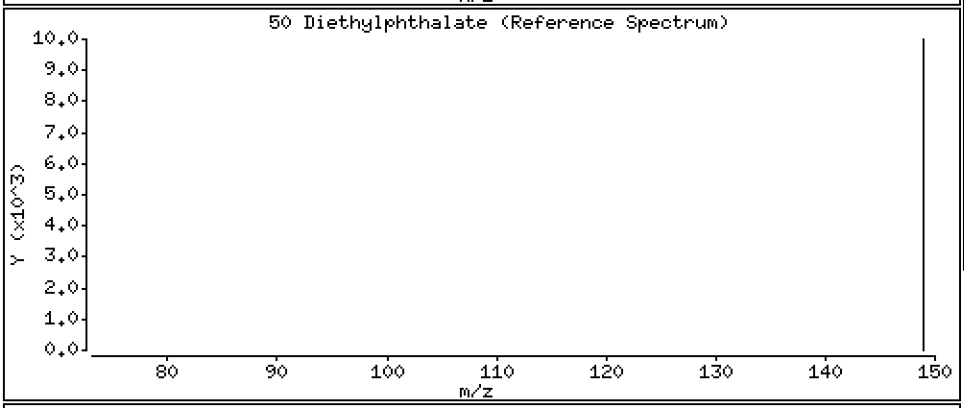
Concentration: 0.1092 ug/L

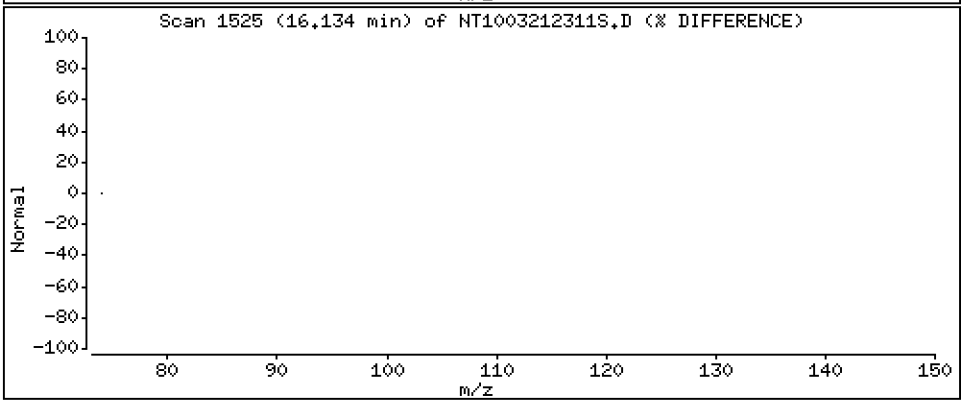












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212311S.D

Date : 21-MAR-2023 23:35

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-02

Volume Injected (uL): 1.0

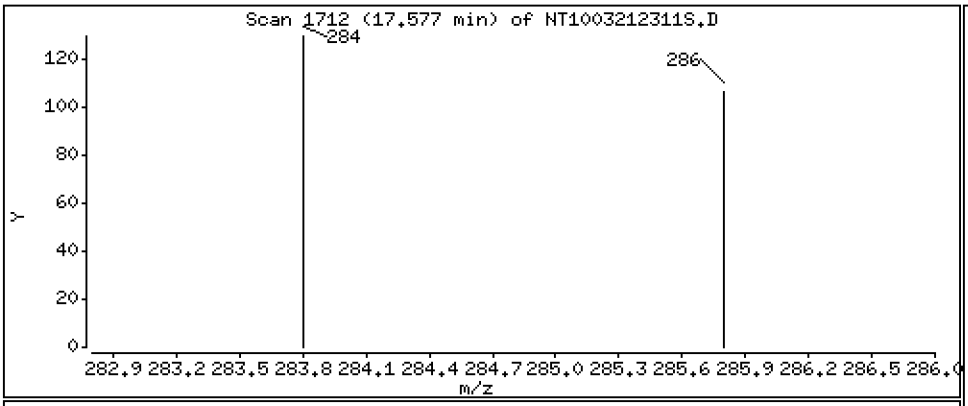
Operator: JGR

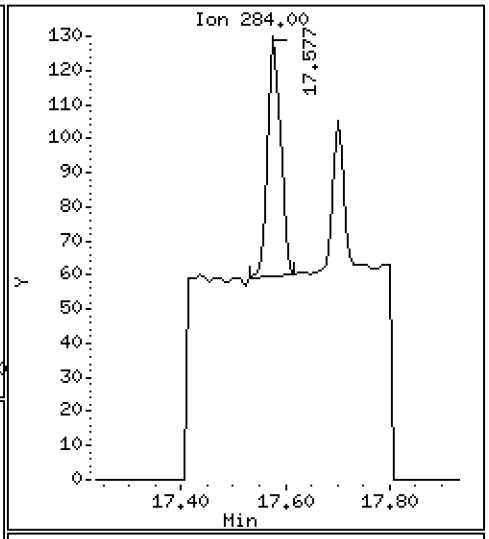
Column phase: ZB-5msi

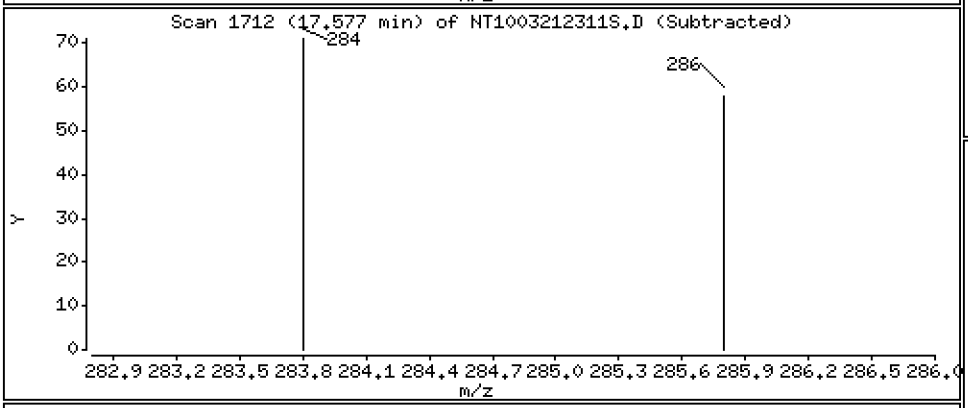
Column diameter: 0.25

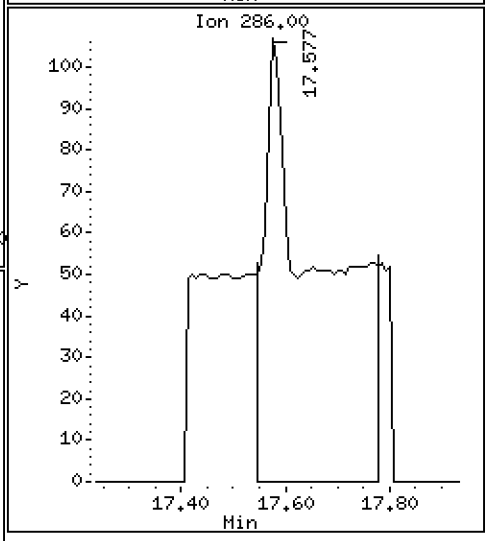
57 Hexachlorobenzene

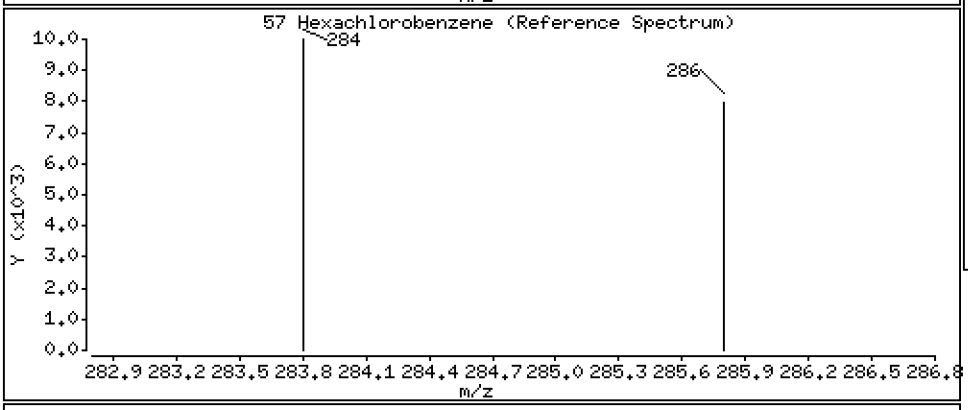
Concentration: 0.002279 ug/L

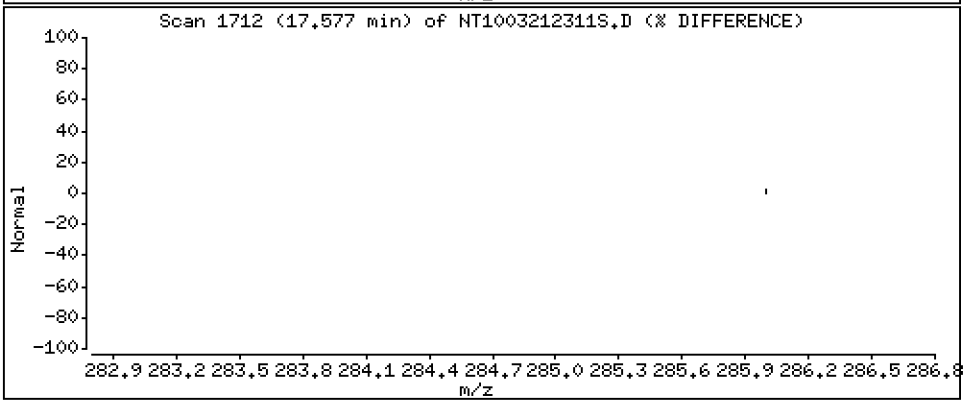












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212311S.D

Date : 21-MAR-2023 23:35

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-02

Volume Injected (uL): 1.0

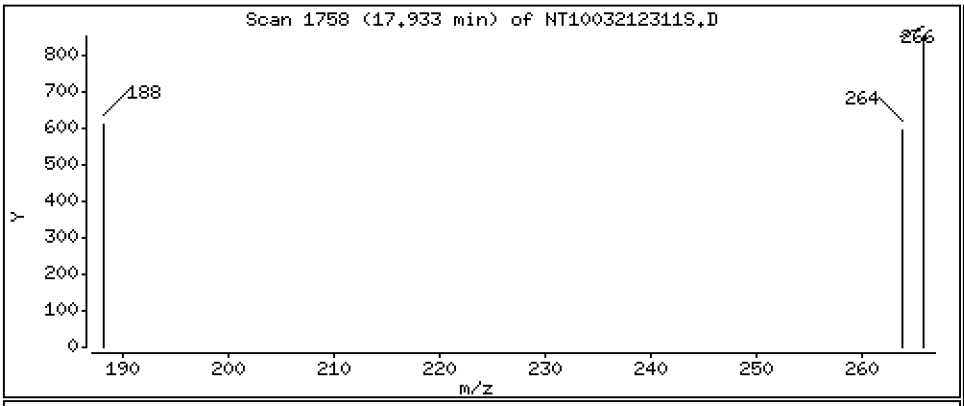
Operator: JGR

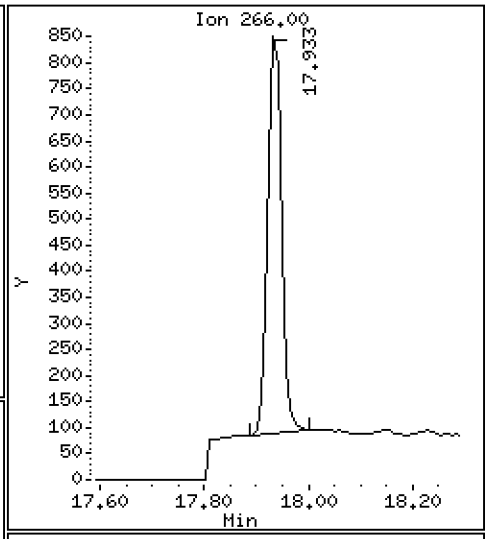
Column phase: ZB-5msi

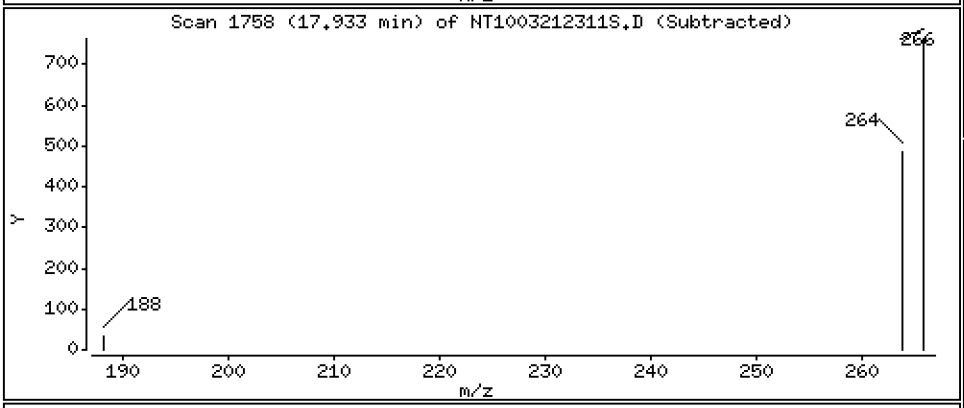
Column diameter: 0.25

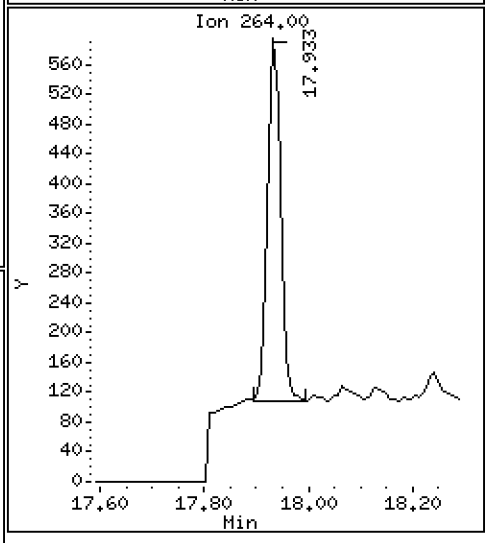
58 Pentachlorophenol

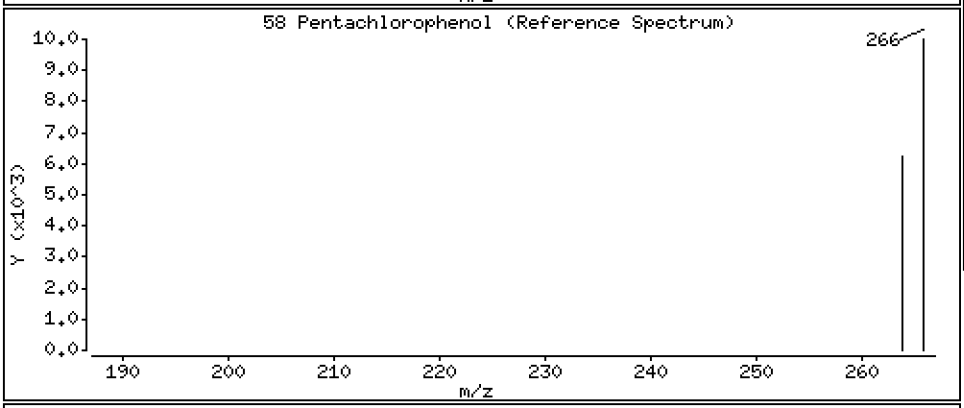
Concentration: 0.04735 ug/L

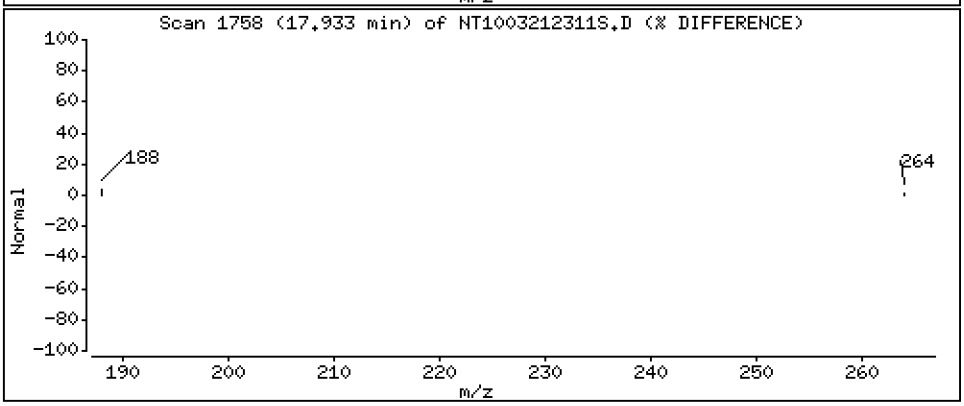












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT10032123115.D

Date : 21-MAR-2023 23:35

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-02

Volume Injected (uL): 1.0

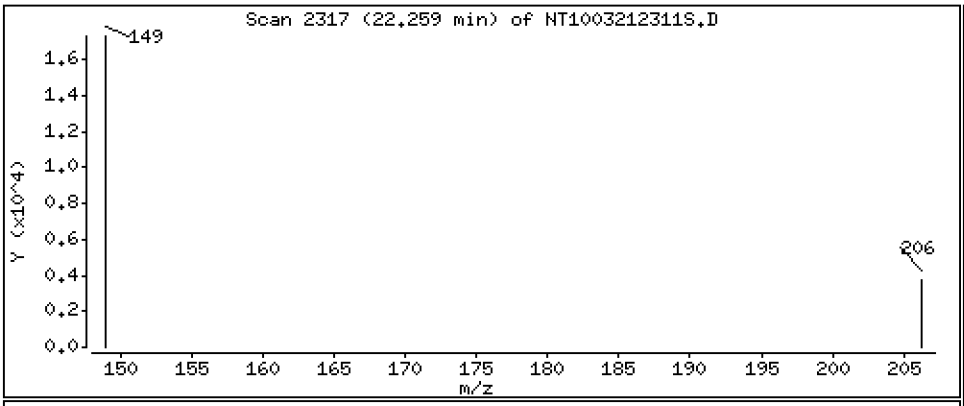
Operator: JGR

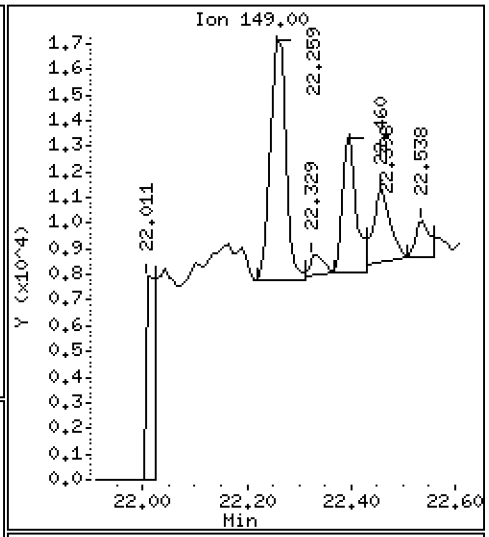
Column phase: ZB-5msi

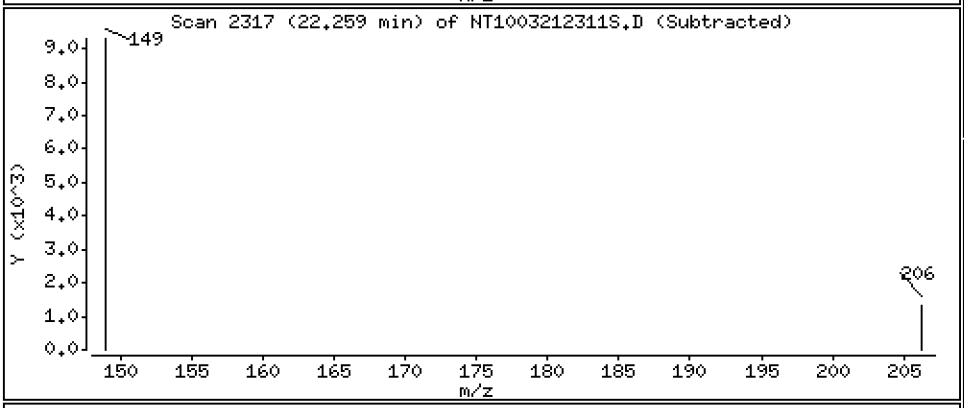
Column diameter: 0.25

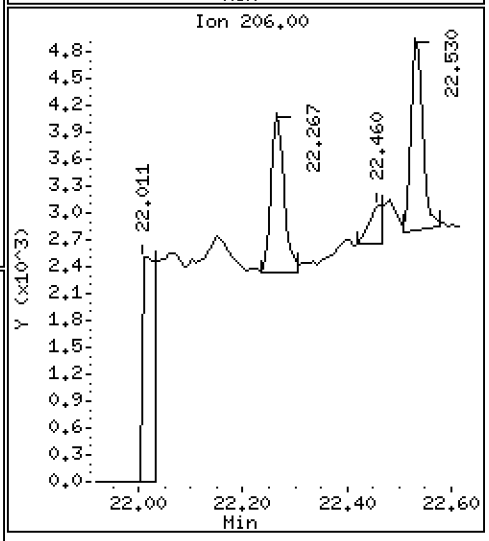
67 Butylbenzylphthalate

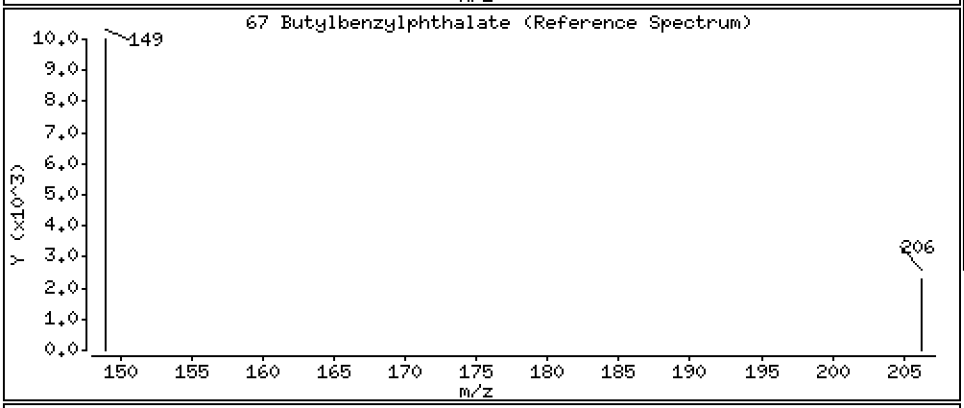
Concentration: 0.1893 ug/L

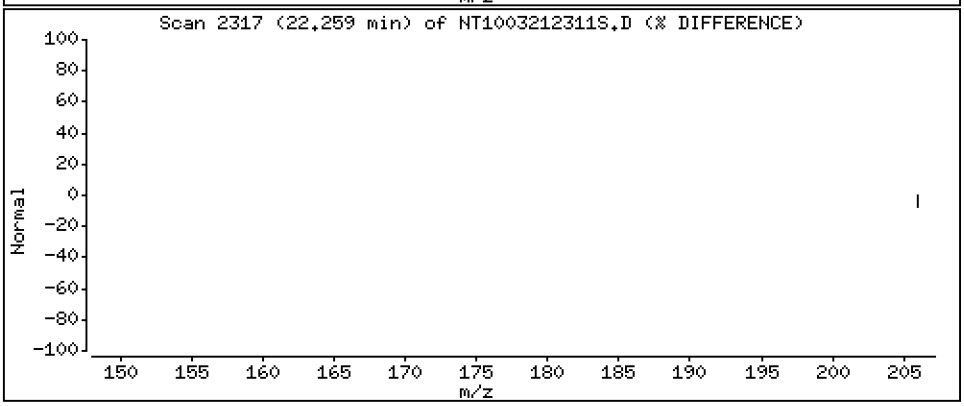












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212311S.D

Date : 21-MAR-2023 23:35

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-02

Volume Injected (uL): 1.0

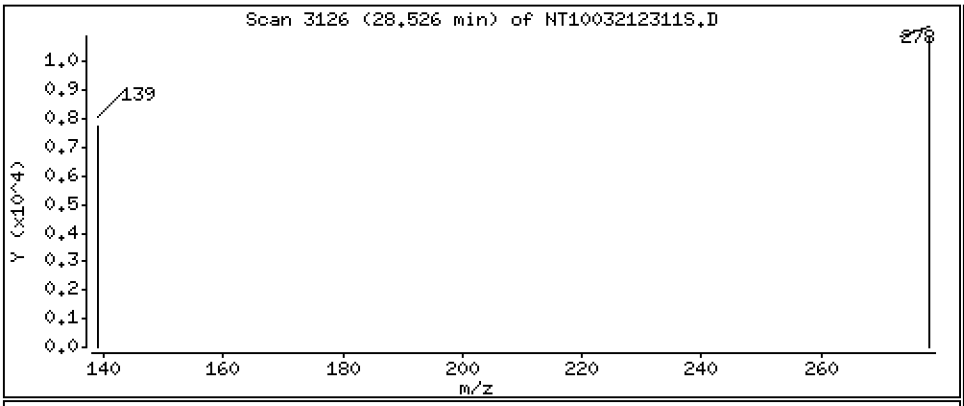
Operator: JGR

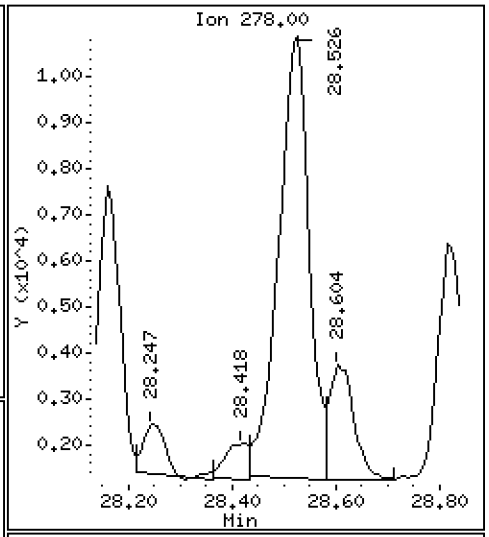
Column phase: ZB-5msi

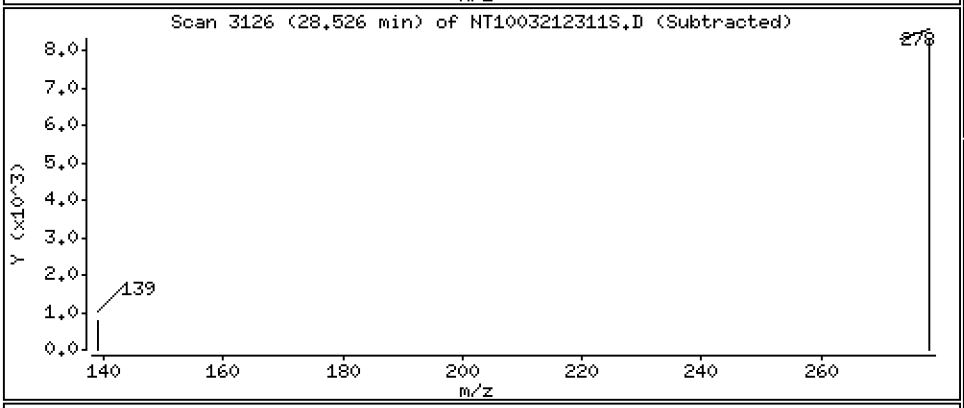
Column diameter: 0.25

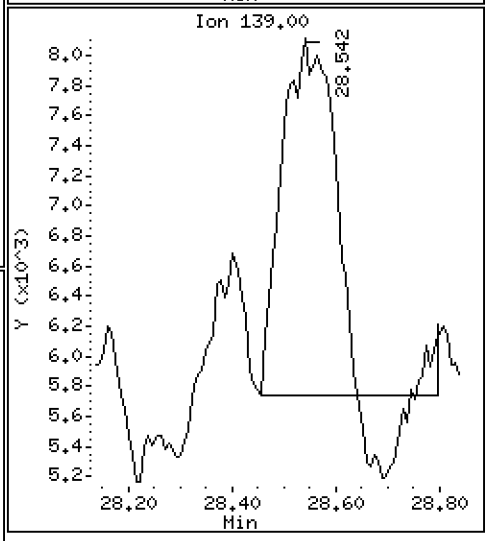
79 Dibenzo(a,h)anthracene

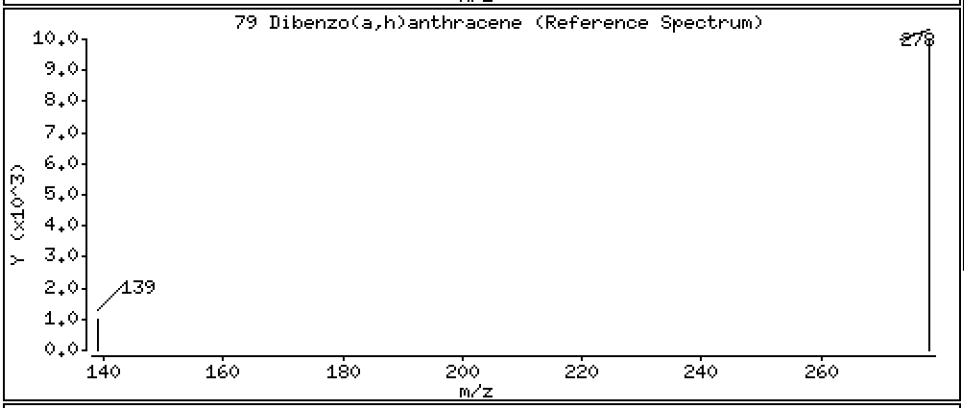
Concentration: 0.1360 ug/L

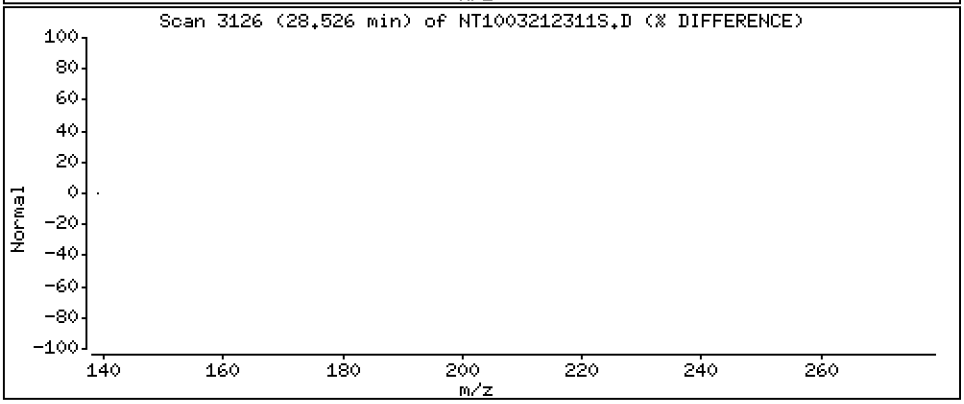












ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212311S.D
Lab Smp Id: 23C0071-02
Inj Date : 21-MAR-2023 23:35 MS Autotune Date: 16-JAN-2023 17:42
Operator : JGR Inst ID: nt10.i
Smp Info : 23C0071-02
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230321.b\20230321.b\SIMABN2.m
Meth Date : 29-Mar-2023 09:55 van Quant Type: ISTD
Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
$ 1	2-Fluorophenol	112	6.895	6.895	(0.757)	366074	5.17686	5.177(R)
3	Phenol	94	8.494	8.494	(0.933)	16023	0.16516	0.1652
7	1,3-Dichlorobenzene	146	9.035	9.043	(0.992)	264	0.00291	0.002908
* 8	1,4-Dichlorobenzene-d4	152	9.105	9.105	(1.000)	233189	4.00000	
9	1,4-Dichlorobenzene	146	9.136	9.136	(1.003)	973	0.01110	0.01110
11	Benzyl alcohol	79	9.377	9.377	(1.030)	67443	1.19914	1.199
12	1,2-Dichlorobenzene	146	9.485	9.493	(1.042)	558	0.00647	0.006475(M)
13	2-Methylphenol	108	9.602	9.602	(1.055)	2788	0.04147	0.04147
15	4-Methylphenol	108	9.866	9.874	(1.084)	11313	0.16196	0.1620
16	N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
22	2,4-Dimethylphenol	107	10.914	10.914	(0.943)	1783	0.02491	0.02491(H)
24	Benzoic acid	105	11.016	11.042	(0.952)	59236	1.50537	1.505
26	1,2,4-Trichlorobenzene	180	11.492	11.500	(0.993)	224	0.00311	0.003111(M)
* 27	Naphthalene-d8	136	11.577	11.585	(1.000)	828013	4.00000	
30	Hexachlorobutadiene	225	11.979	11.987	(1.035)	54	0.00123	0.001234(M)
39	Dimethylphthalate	163	14.687	14.695	(0.968)	9281	0.07244	0.07244
* 42	Acenaphthene-d10	162	15.175	15.183	(1.000)	406022	4.00000	
50	Diethylphthalate	149	16.134	16.141	(1.063)	14496	0.10921	0.1092(M)
54	N-Nitrosodiphenylamine	169	Compound Not Detected.					
57	Hexachlorobenzene	284	17.577	17.584	(0.966)	117	0.00228	0.002279(M)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	58 Pentachlorophenol	266	17.933	17.941	(0.986)	1342	0.04735	0.04735(M)
*	59 Phenanthrene-d10	188	18.196	18.196	(1.000)	854727	4.00000	
$	66 Terphenyl-d14	244	21.337	21.337	(0.918)	604432	4.88876	4.889(R)
	67 Butylbenzylphthalate	149	22.258	22.259	(0.958)	18910	0.18927	0.1893
*	69 Chrysene-d12	240	23.242	23.234	(1.000)	758809	4.00000	
*	77 Perylene-d12	264	25.859	25.836	(1.000)	900886	4.00000	
	79 Dibenzo(a,h)anthracene	278	28.526	28.487	(1.103)	40206	0.13603	0.1360
	90 N-Nitrosodimethylamine	74	Compound Not Detected.					

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1003212311S.D
Lab Smp Id: 23C0071-02
Analysis Type: SV
Quant Type: ISTD
Operator: JGR
Method File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\SIMABN2.m
Misc Info:

Calibration Date: 21-MAR-2023
Calibration Time: 18:25
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	162628	81314	325256	233189	43.39
27 Naphthalene-d8	580280	290140	1160560	828013	42.69
42 Acenaphthene-d10	297255	148628	594510	406022	36.59
59 Phenanthrene-d10	561093	280547	1122186	854727	52.33
69 Chrysene-d12	498827	249414	997654	758809	52.12
77 Perylene-d12	558480	279240	1116960	900886	61.31

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.11	8.61	9.61	9.11	-0.00
27 Naphthalene-d8	11.59	11.09	12.09	11.58	-0.07
42 Acenaphthene-d10	15.18	14.68	15.68	15.18	-0.05
59 Phenanthrene-d10	18.20	17.70	18.70	18.20	-0.00
69 Chrysene-d12	23.23	22.73	23.73	23.24	0.03
77 Perylene-d12	25.84	25.34	26.34	25.86	0.09

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

REVIEW SUMMARY FOR FILE - NT1003212311S.D

Lab ID: 23C0071-02
nt10.i, 20230321.b\20230321.b\SIMABN2.m,   21-MAR-2023 23:35

RT	CO-ELUTION COMPOUNDS
NO CO-ELUTIONS	

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
NONE			

RRT check based on Ccal File: 20230321.b/NT1003212303S.D

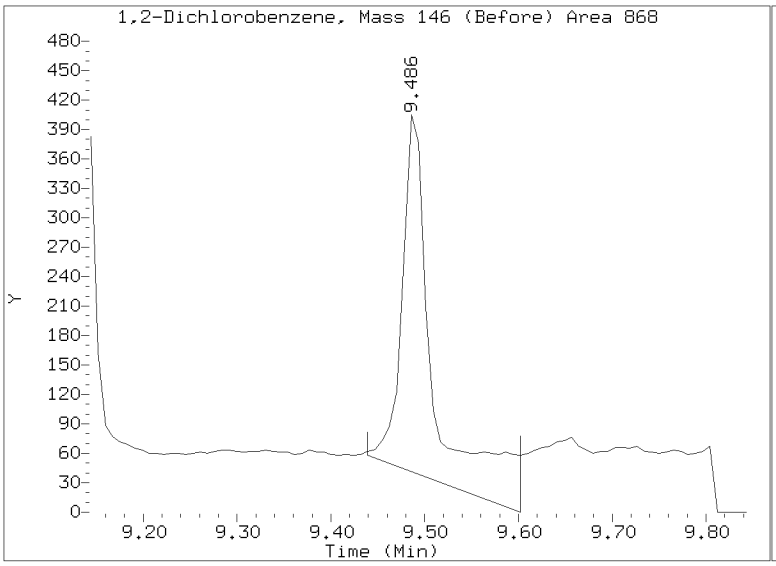
On Column LOD for nt10.i, 20230321.b\SIMABN2.m, PSDDA.sub = 0.0000

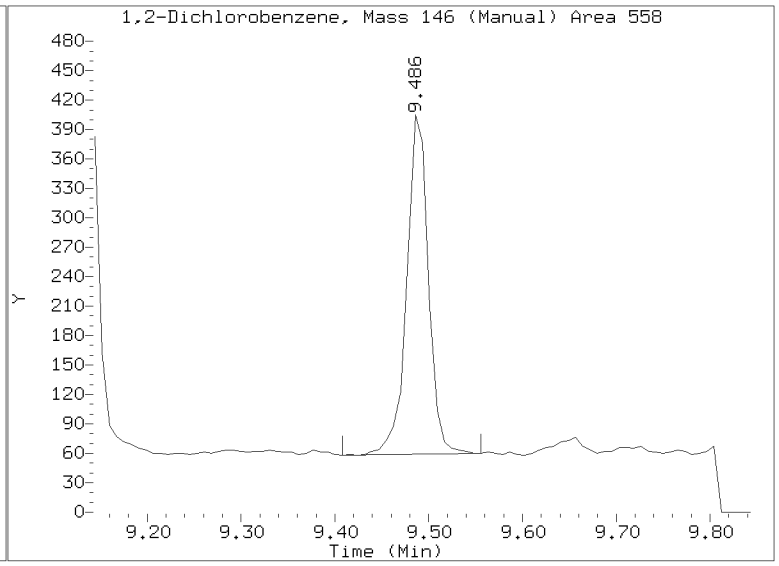
Exception: 1,2,4-Trichlorobenzene 0.0010

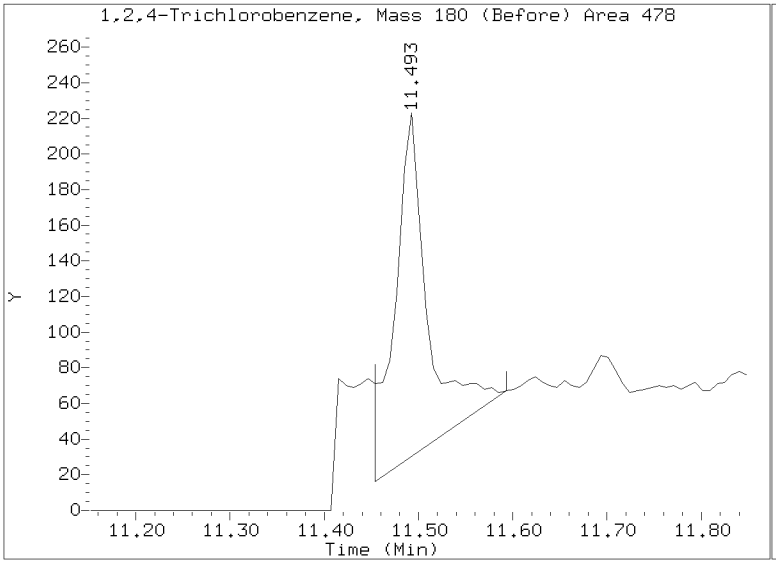
* Only compounds listed in the work order have been verified by the analyst *

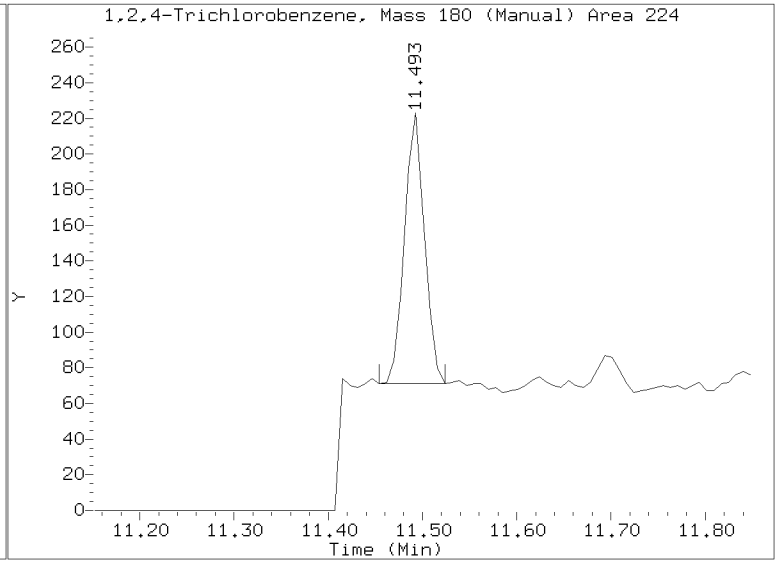
Quant Ion Manual Peak Adjustment Report

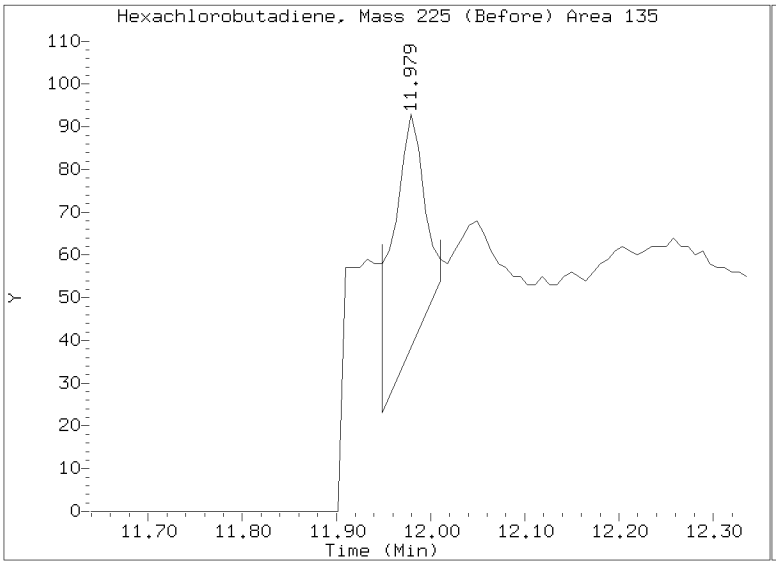
Datafile: //target/share/chem3/nt10.i/20230321.b/20230321.b/NT1003212311S.D
Injection Date: 21-MAR-2023 23:35
Lab ID:23C0071-02 Client ID:
Report Date: 03/29/2023 13:24

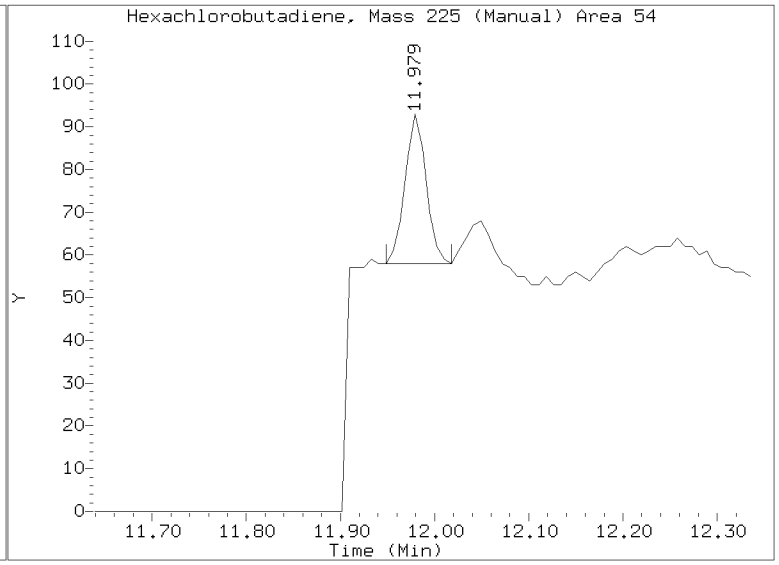






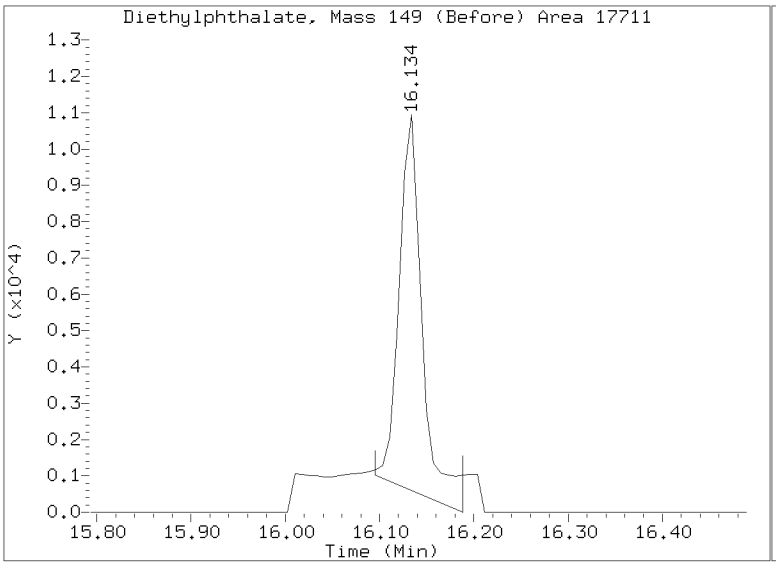


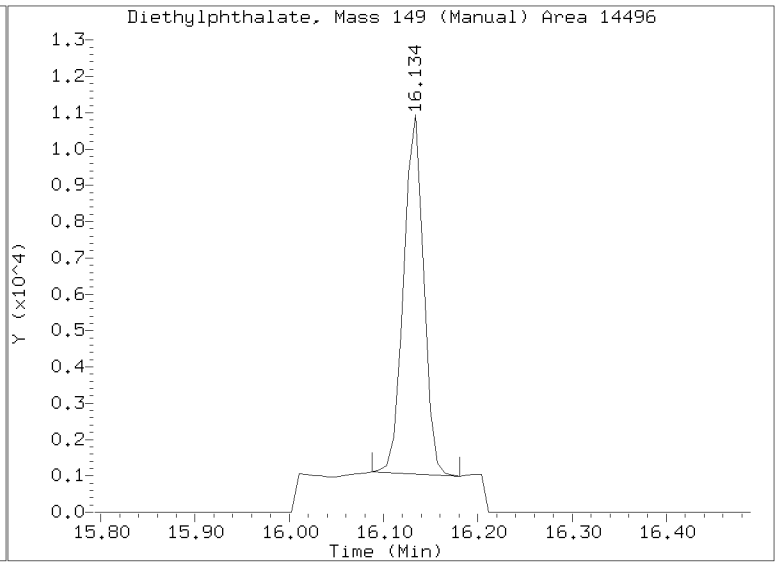


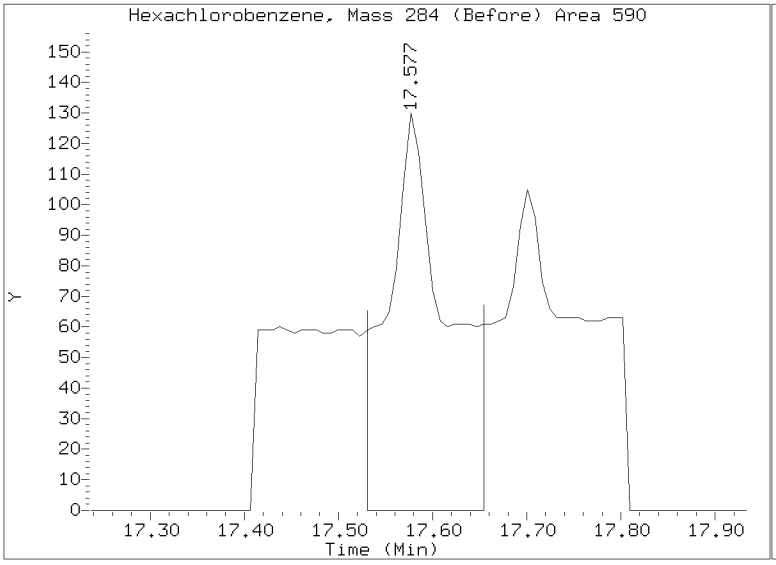


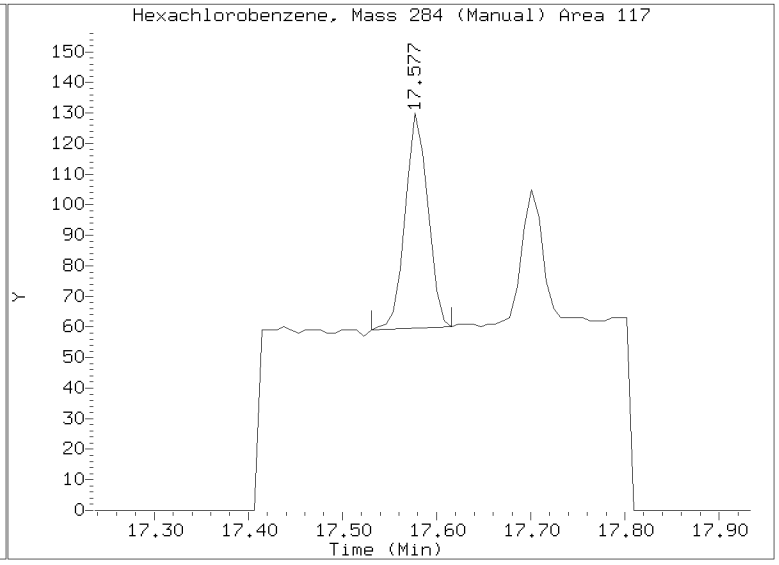
Quant Ion Manual Peak Adjustment Report

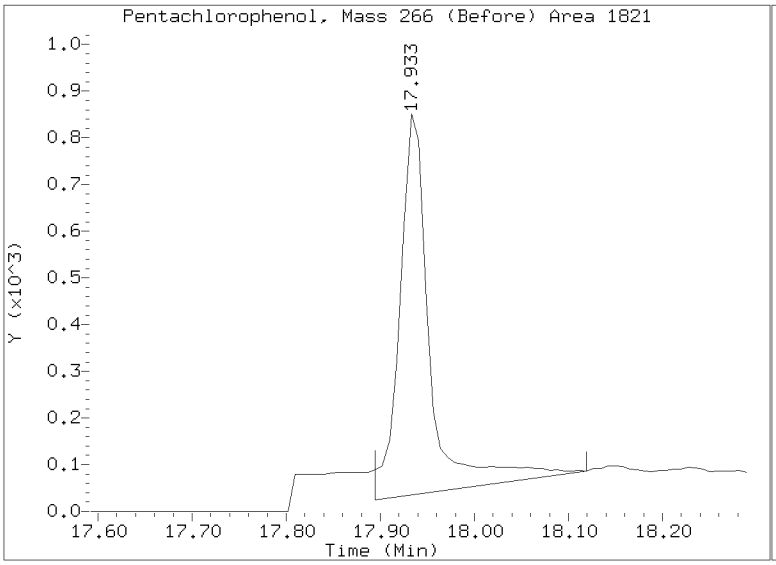
Datafile: //target/share/chem3/nt10.i/20230321.b/20230321.b/NT1003212311S.D
Injection Date: 21-MAR-2023 23:35
Lab ID:23C0071-02 Client ID:
Report Date: 03/29/2023 13:24

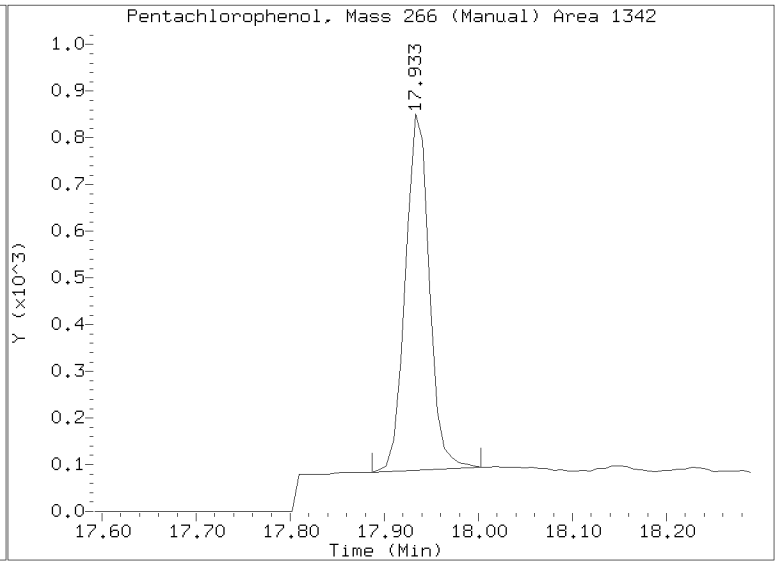












Analytical Resources, LLC
Analytical Chemists and Consultants

LDW23-SS1036

Form I

ORGANIC ANALYSIS DATA SHEET

EPA 8270E-SIM

SIM SVOC Organics (Dual scan list)

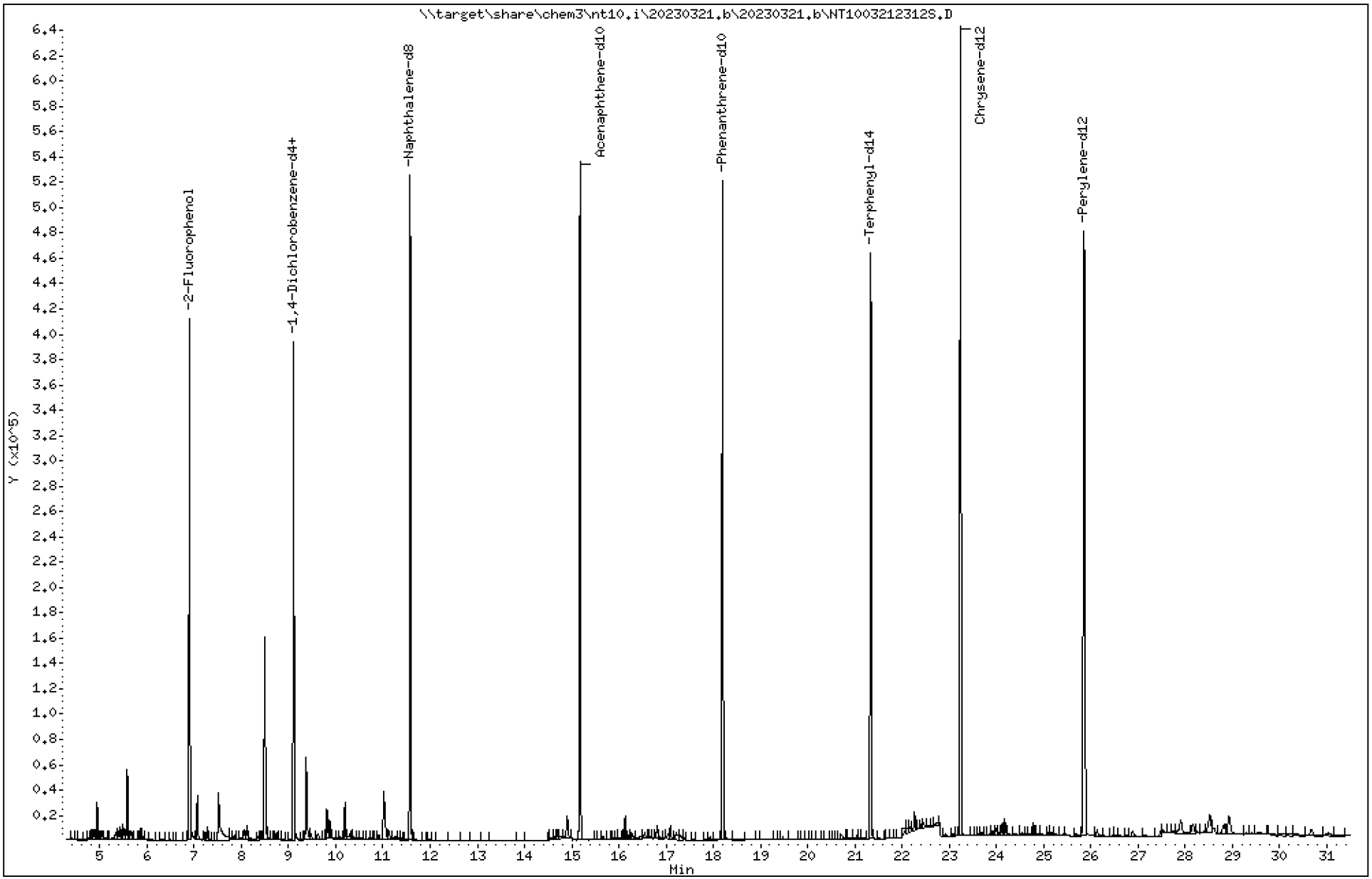
Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0071-03 A	SDG:	23C0071
Sampled:	03/02/23 10:10	Prepared:	03/07/23 10:21	File ID:	NT1003212312S.D
% Solids:	47.57	Preparation:	EPA 3546 (Microwave)	Analyzed:	03/22/23 00:13
Batch:	BLC0109	Sequence:	SLC0452	Initial/Final:	21.57 g Wet / 1 mL
Instrument:	NT10	Column:	ZB-5MSi	Calibration:	GC00049
Cleanups:	GPC				

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
106-46-7	1,4-Dichlorobenzene	1	2.2	J	0.6	4.9
95-50-1	1,2-Dichlorobenzene	1	1.4	J	0.7	4.9
100-51-6	Benzyl Alcohol	1	114		2.4	19.5
65-85-0	Benzoic acid	1	126		13.1	97.5
105-67-9	2,4-Dimethylphenol	1	4.3	J	2.1	19.5
120-82-1	1,2,4-Trichlorobenzene	1	4.9	U	2.6	4.9
86-30-6	N-Nitrosodiphenylamine	1	4.9	U	1.3	4.9
87-86-5	Pentachlorophenol	1	10.0	J	2.1	19.5

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorophenol	730.93	554	75.7	27 - 120	
p-Terphenyl-d14	487.29	484	99.4	37 - 120	

Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT10032123128.D
Date : 22-MAR-2023 00:13
Client ID:
Sample Info: 23C0071-03
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt10.i
Operator: JGR
Column diameter: 0.25



Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT10032123125.D

Date : 22-MAR-2023 00:13

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-03

Volume Injected (uL): 1.0

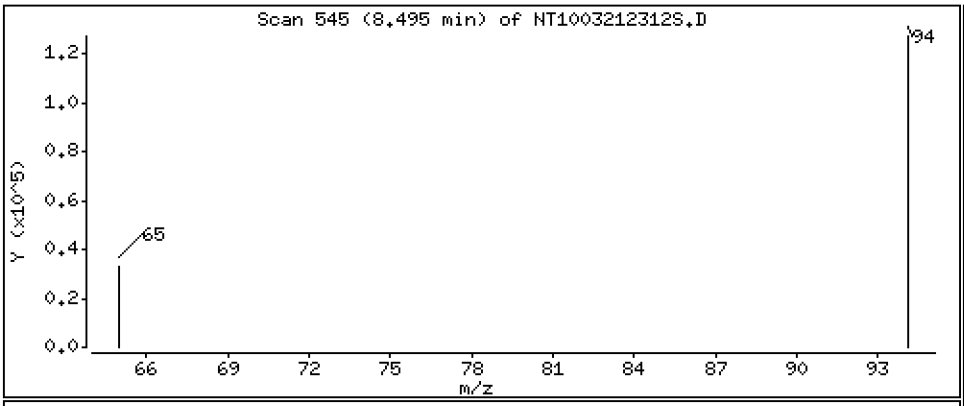
Operator: JGR

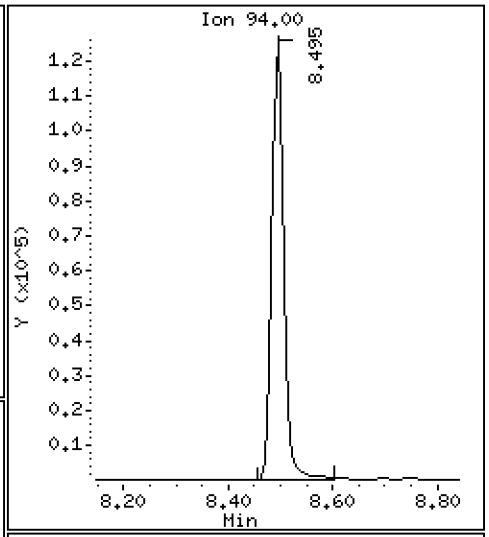
Column phase: ZB-5msi

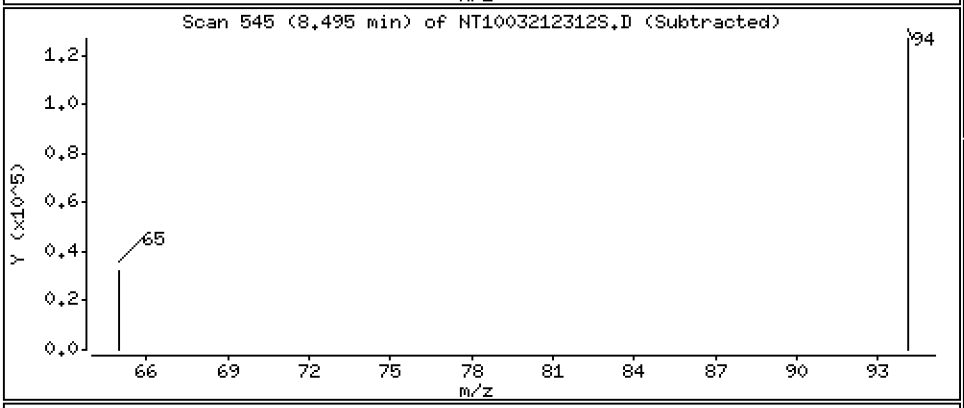
Column diameter: 0.25

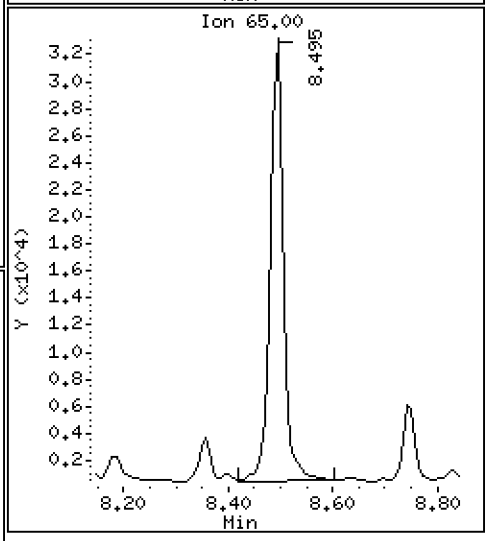
3 Phenol

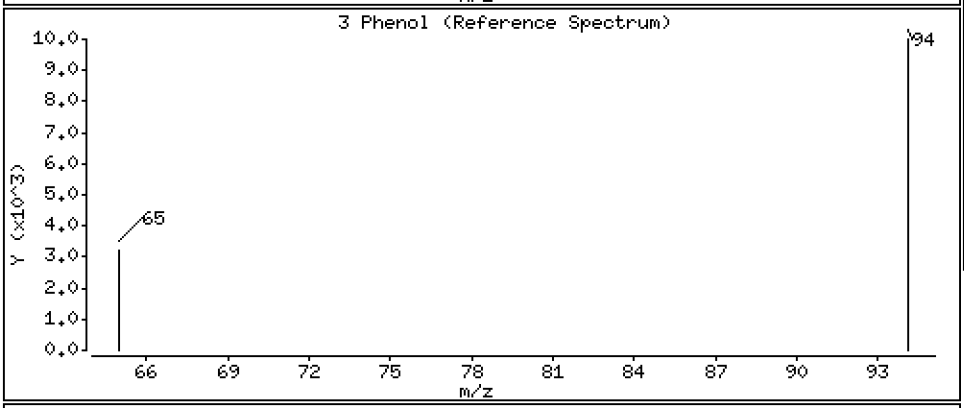
Concentration: 1.908 ug/L

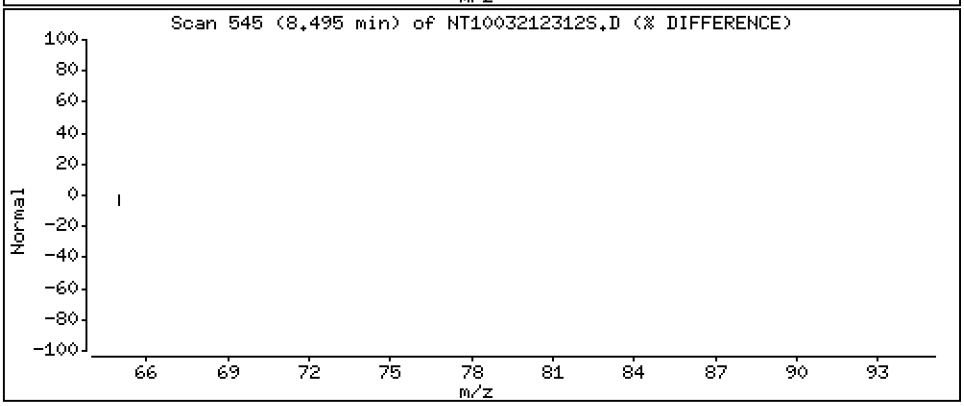












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT10032123125.D

Date : 22-MAR-2023 00:13

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-03

Volume Injected (uL): 1.0

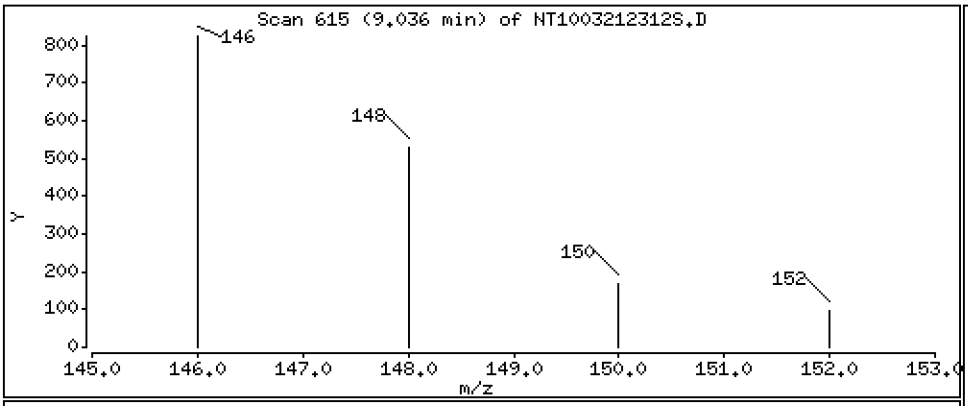
Operator: JGR

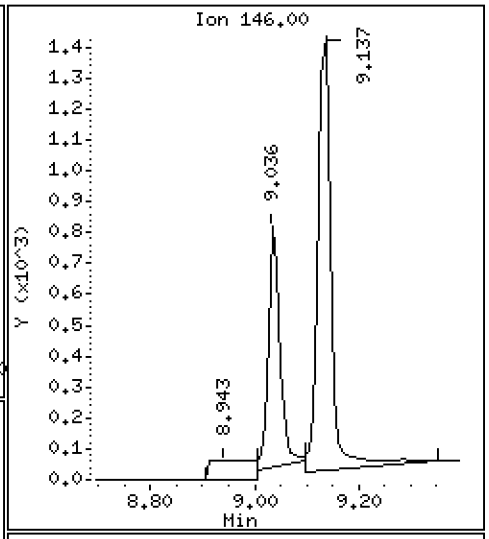
Column phase: ZB-5msi

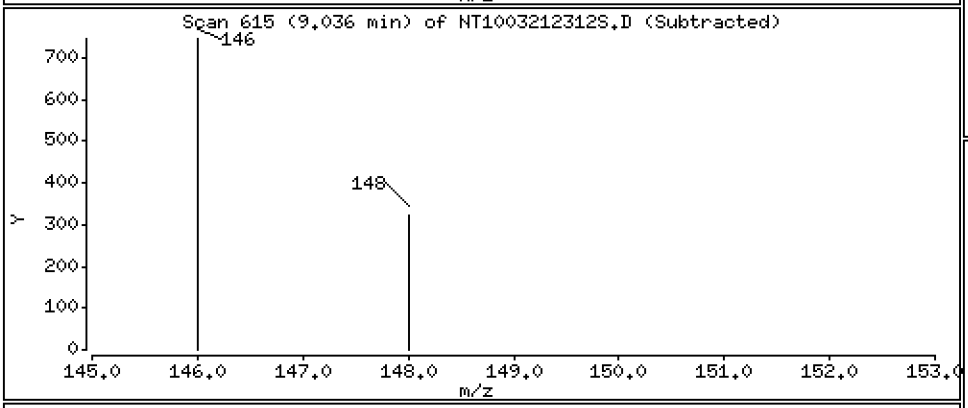
Column diameter: 0.25

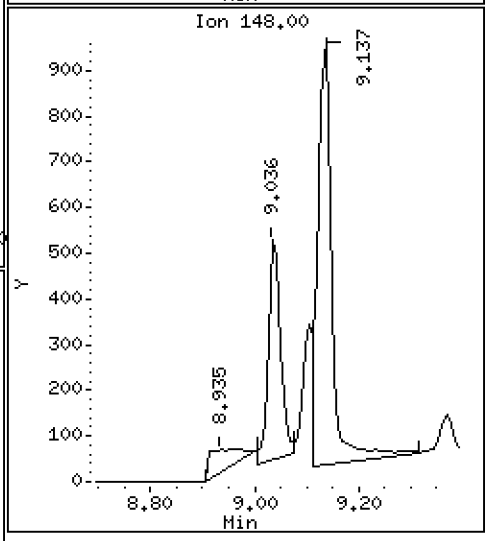
7 1,3-Dichlorobenzene

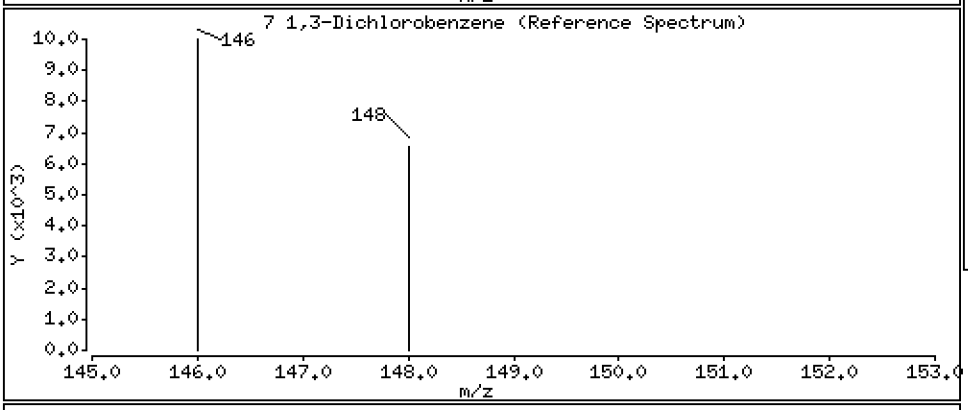
Concentration: 0.01337 ug/L

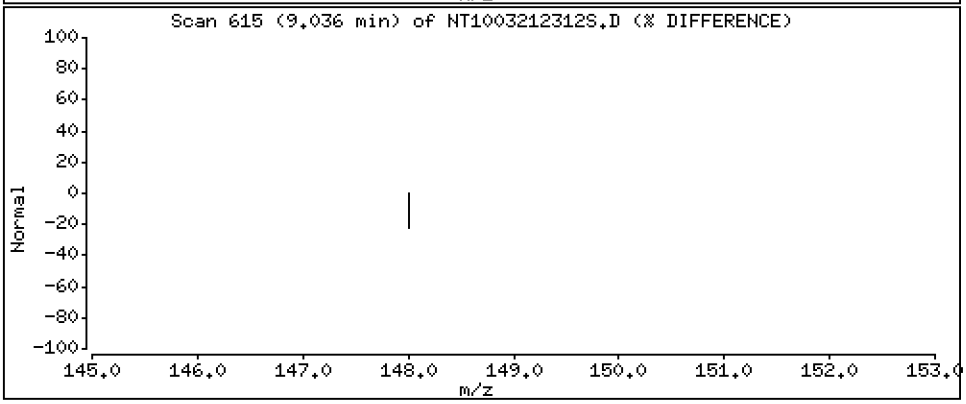












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT10032123125.D

Date : 22-MAR-2023 00:13

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-03

Volume Injected (uL): 1.0

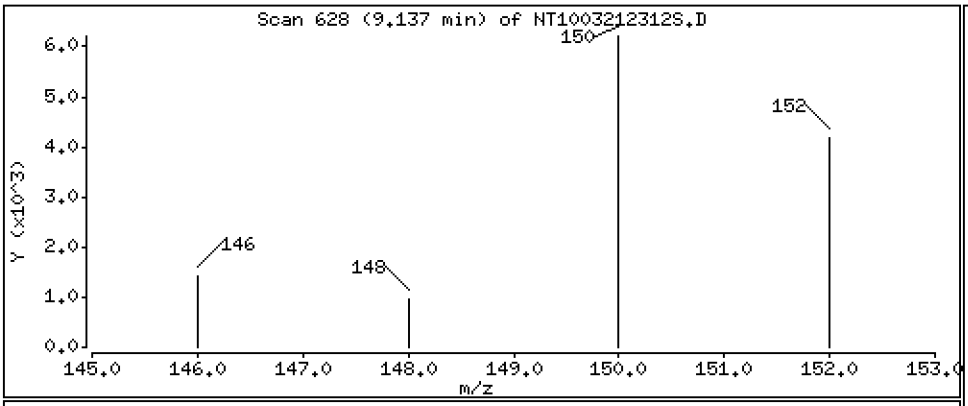
Operator: JGR

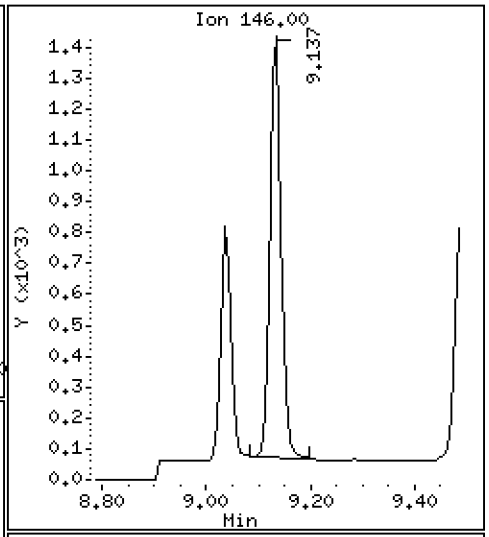
Column phase: ZB-5msi

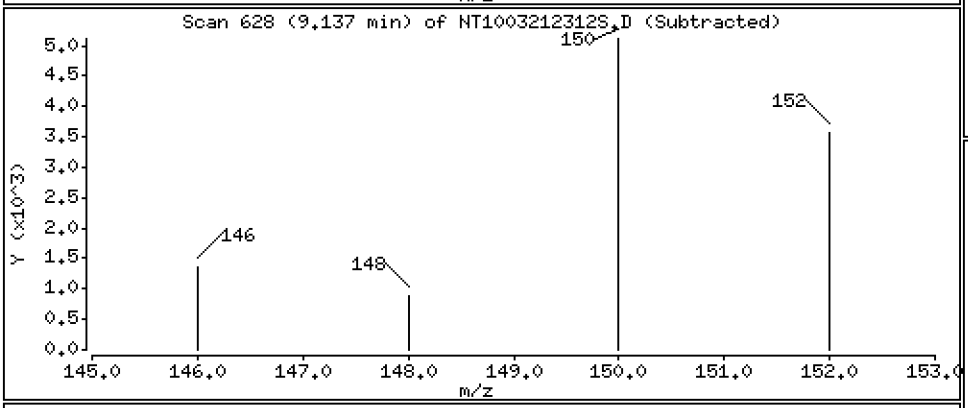
Column diameter: 0.25

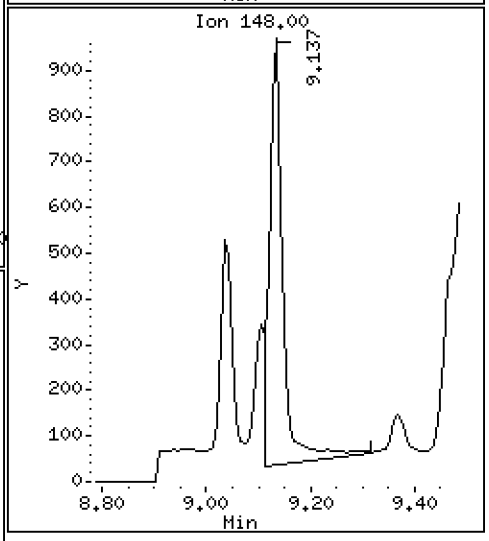
9 1,4-Dichlorobenzene

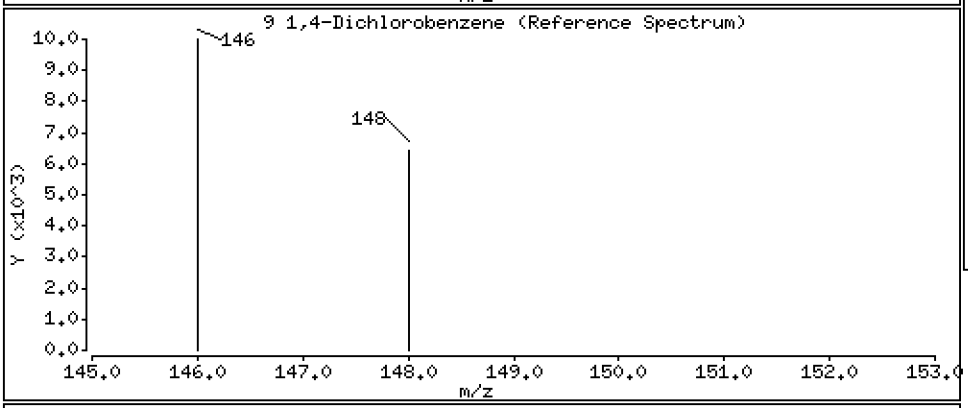
Concentration: 0.02302 ug/L

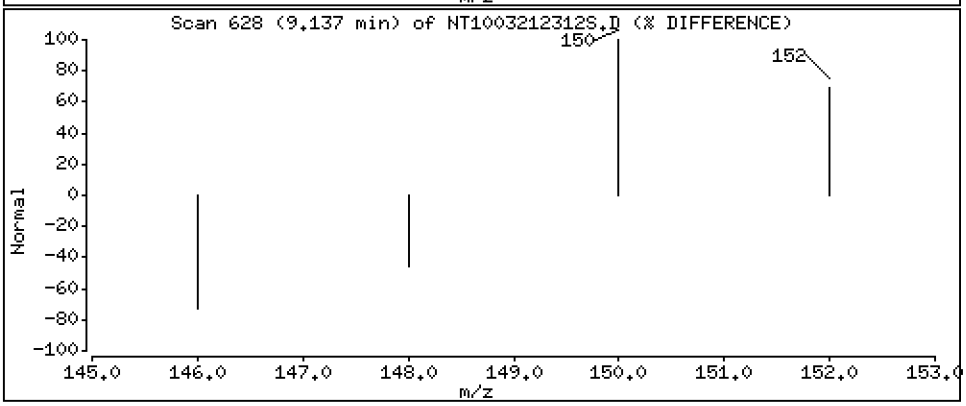












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT10032123125.D

Date : 22-MAR-2023 00:13

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-03

Volume Injected (uL): 1.0

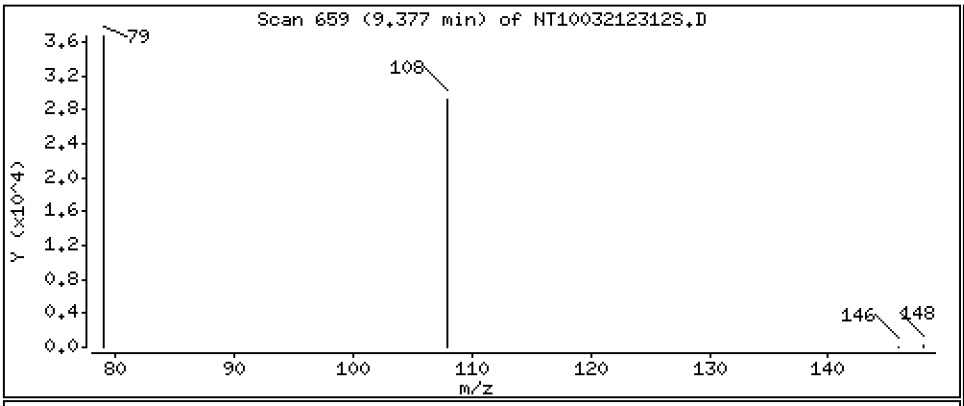
Operator: JGR

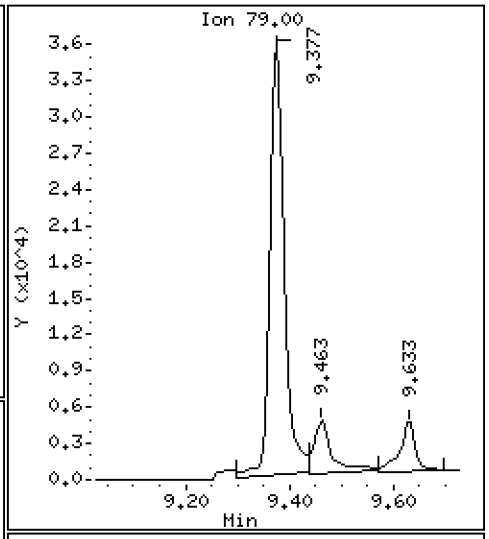
Column phase: ZB-5msi

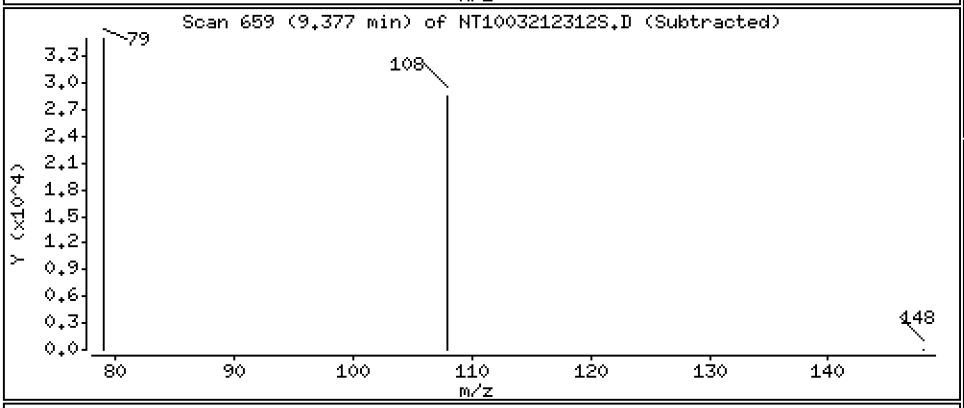
Column diameter: 0.25

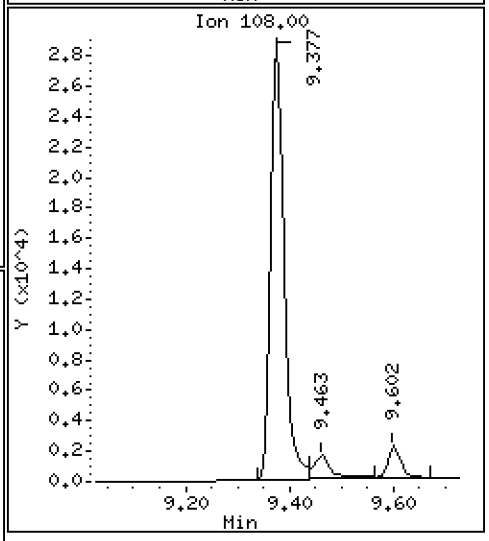
11 Benzyl alcohol

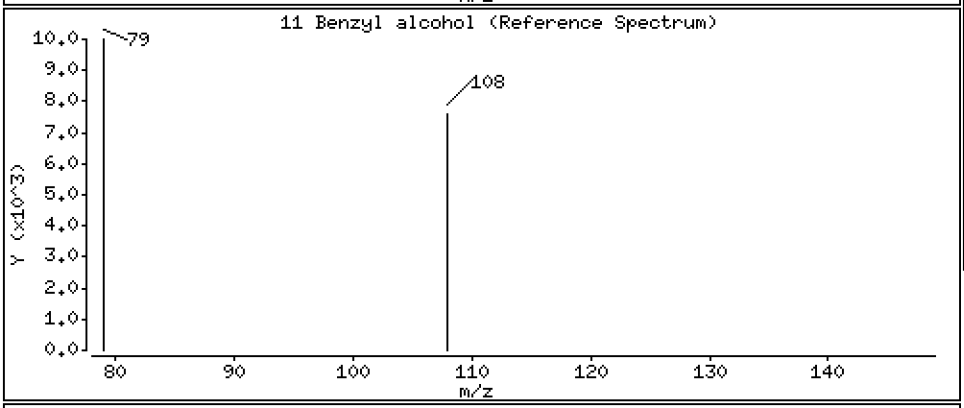
Concentration: 1.171 ug/L

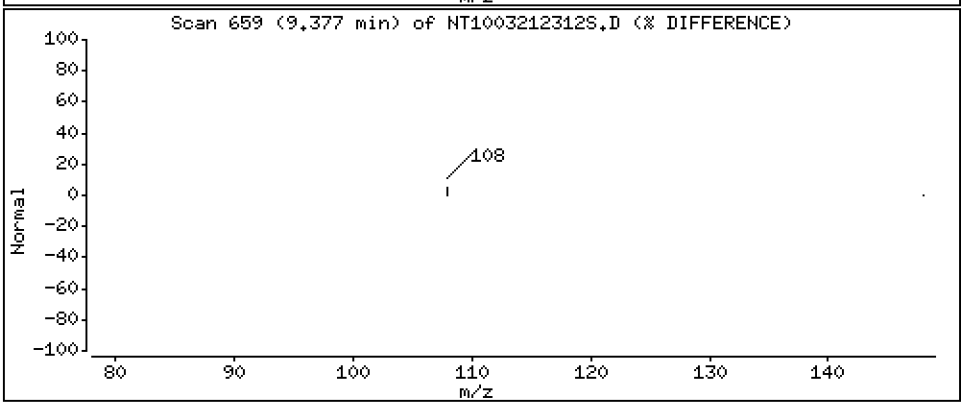












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT10032123125.D

Date : 22-MAR-2023 00:13

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-03

Volume Injected (uL): 1.0

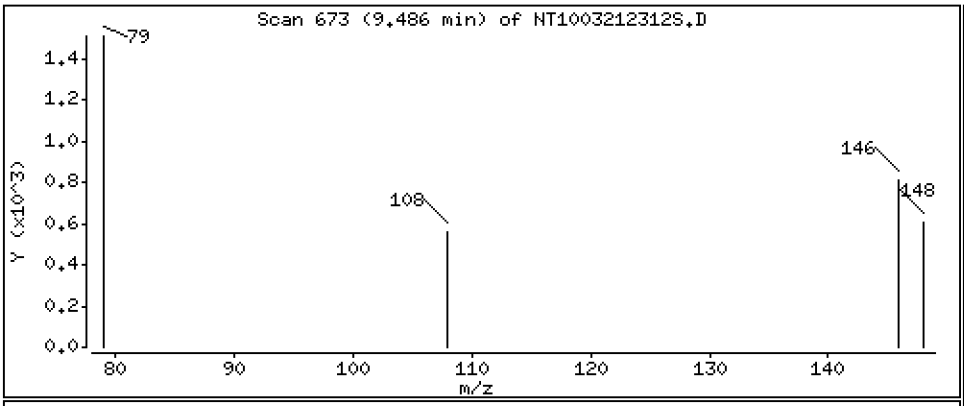
Operator: JGR

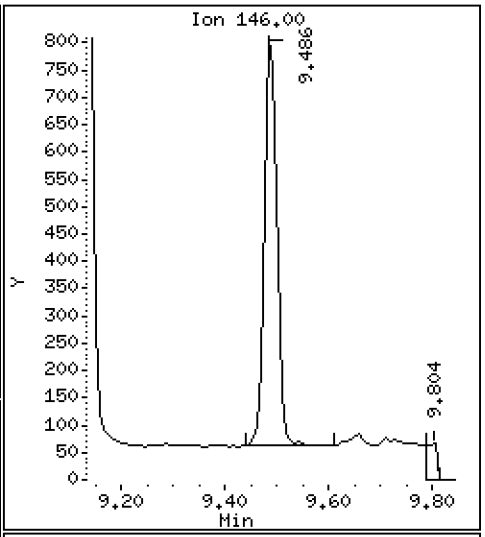
Column phase: ZB-5msi

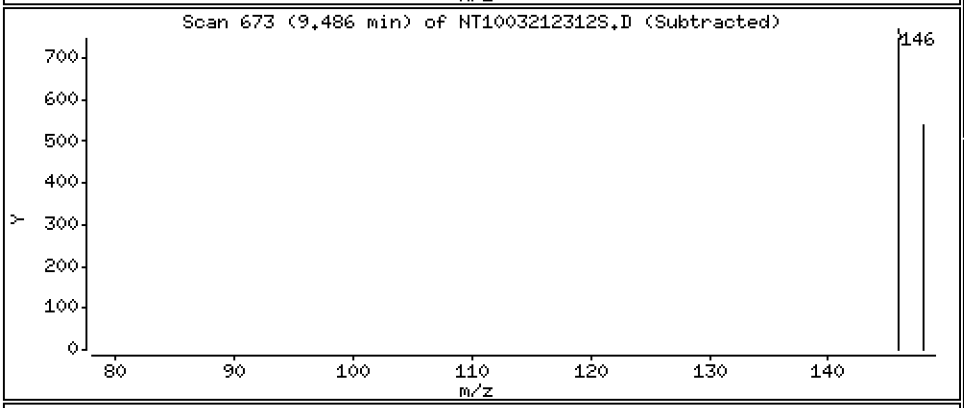
Column diameter: 0.25

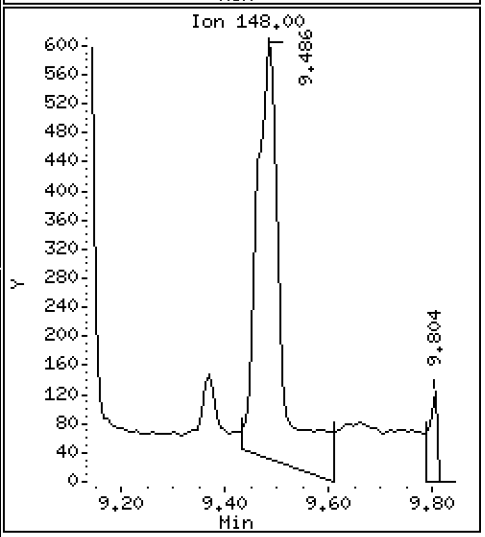
12 1,2-Dichlorobenzene

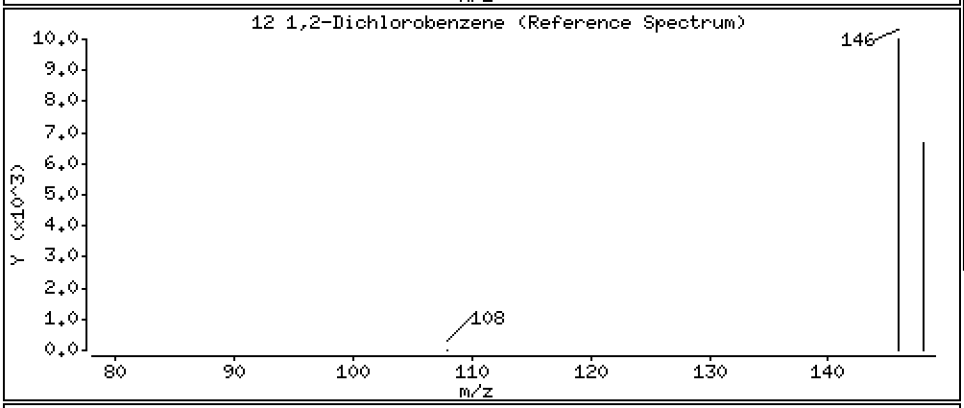
Concentration: 0.01390 ug/L

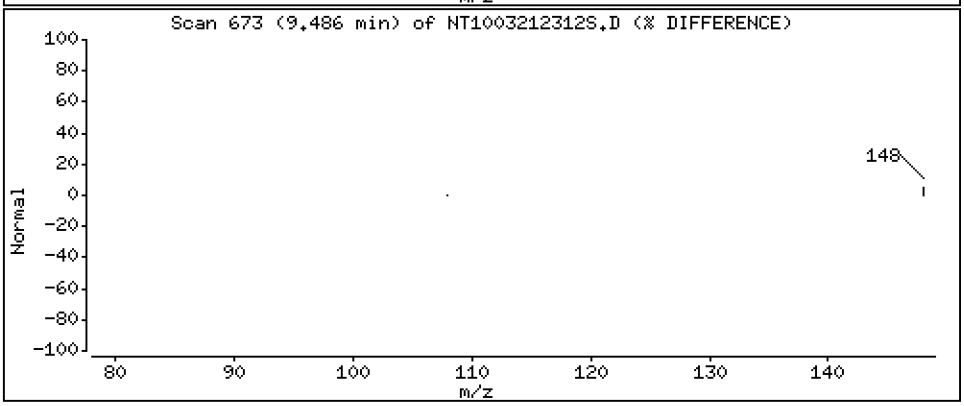












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT10032123125.D

Date : 22-MAR-2023 00:13

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-03

Volume Injected (uL): 1.0

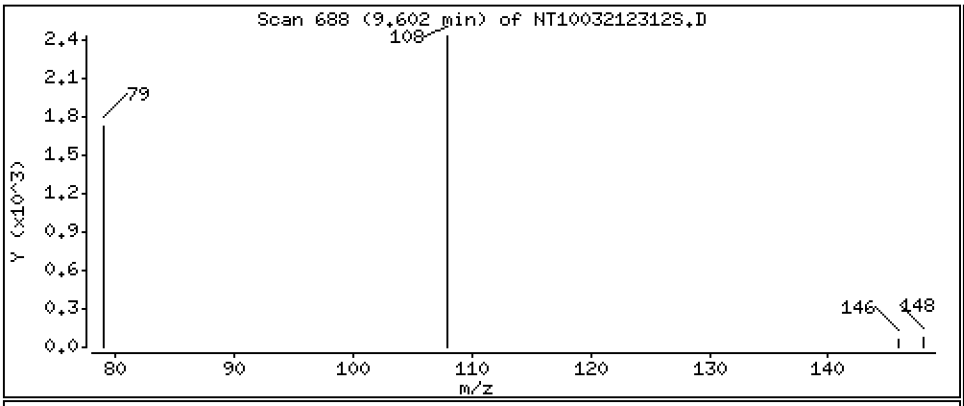
Operator: JGR

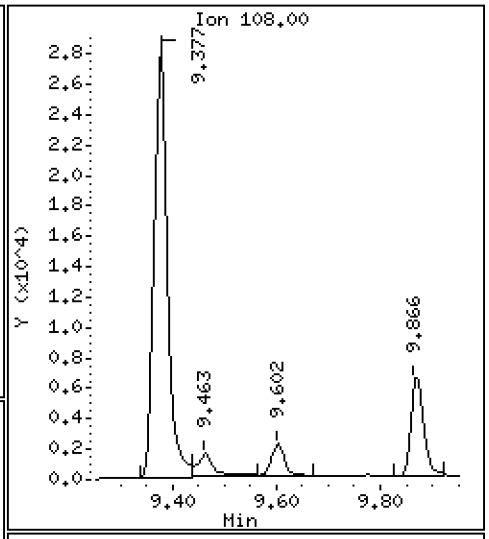
Column phase: ZB-5msi

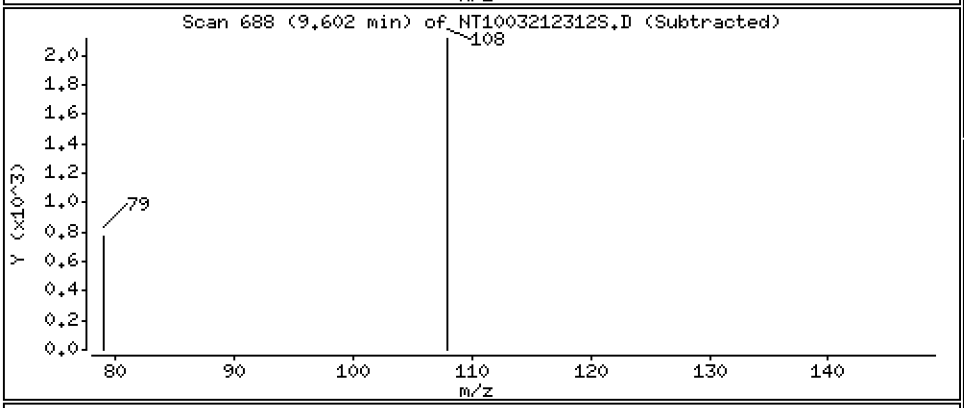
Column diameter: 0.25

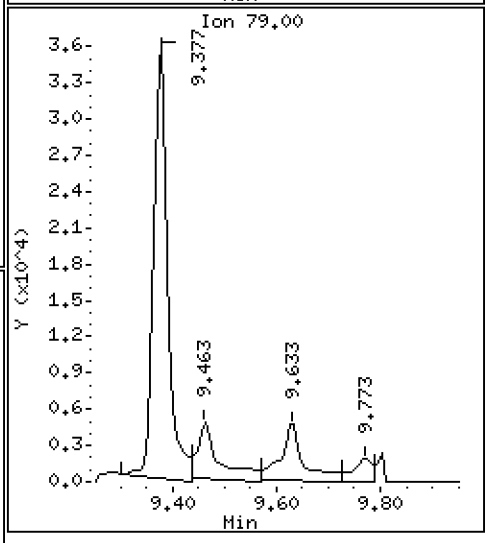
13 2-Methylphenol

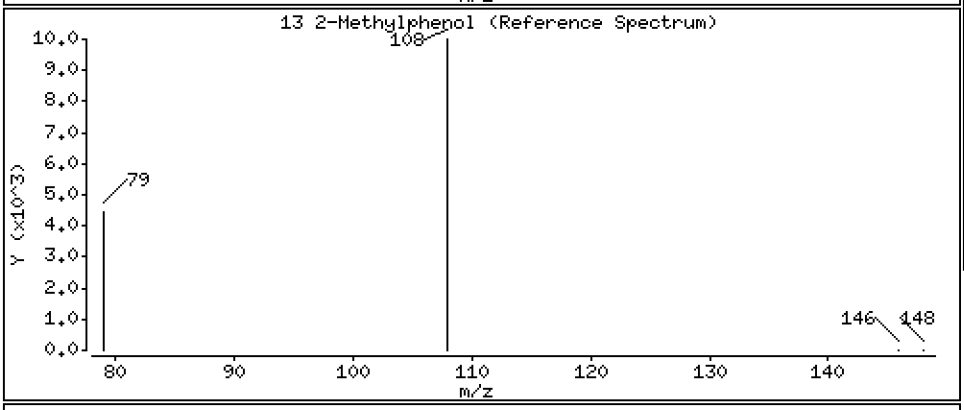
Concentration: 0.05339 ug/L

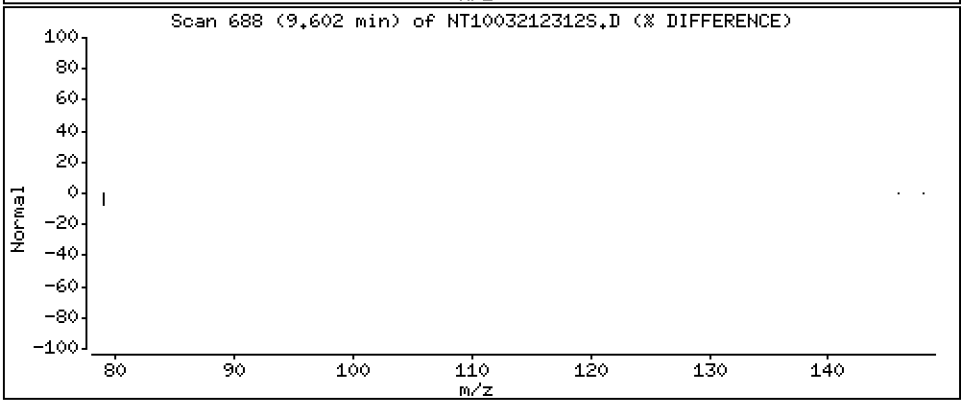












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT10032123125.D

Date : 22-MAR-2023 00:13

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-03

Volume Injected (uL): 1.0

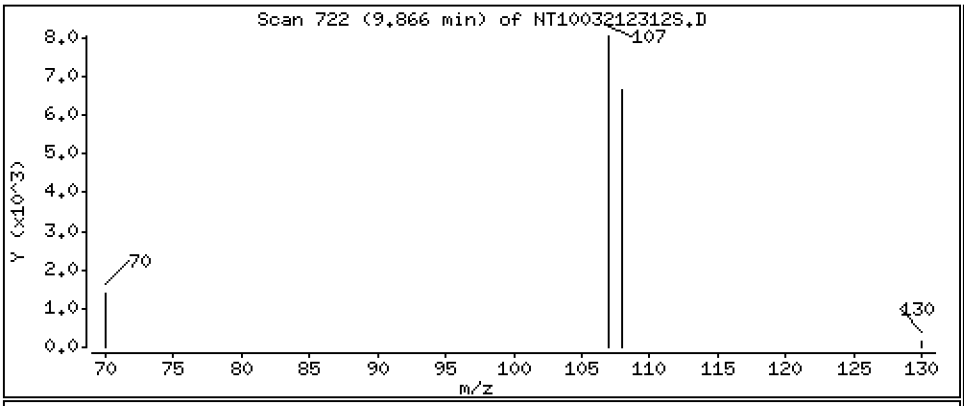
Operator: JGR

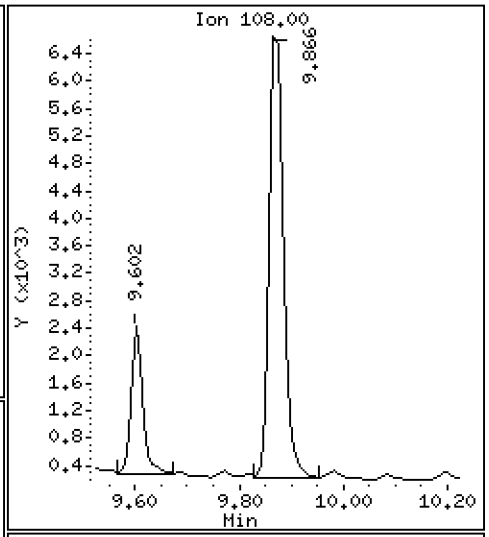
Column phase: ZB-5msi

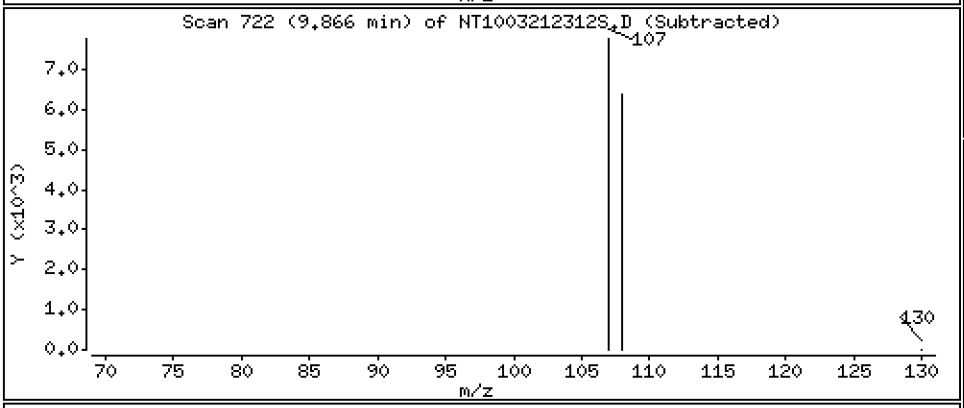
Column diameter: 0.25

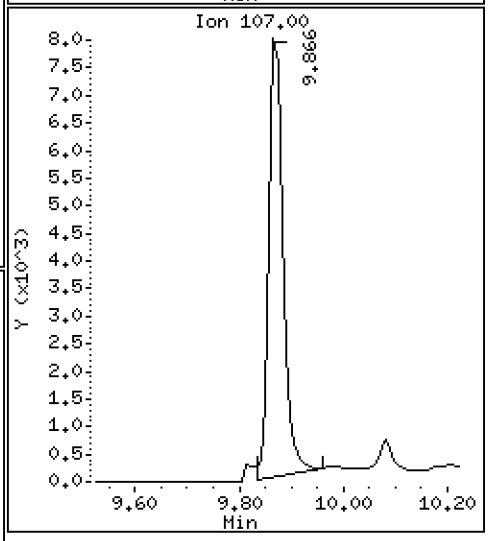
15 4-Methylphenol

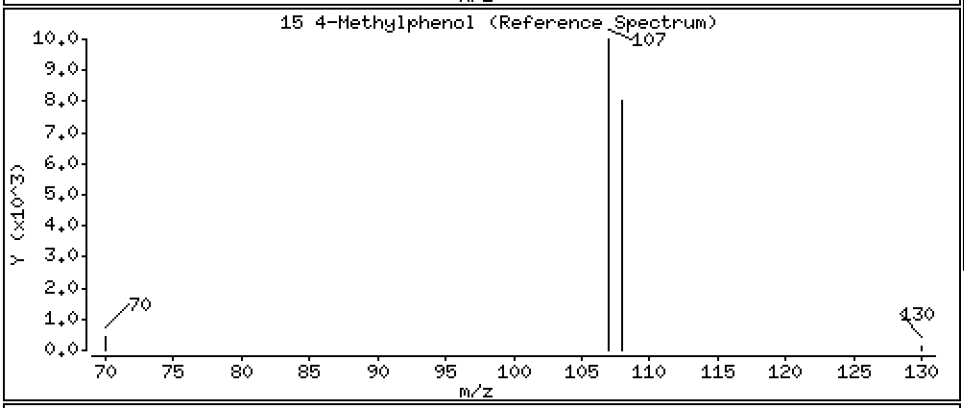
Concentration: 0.1667 ug/L

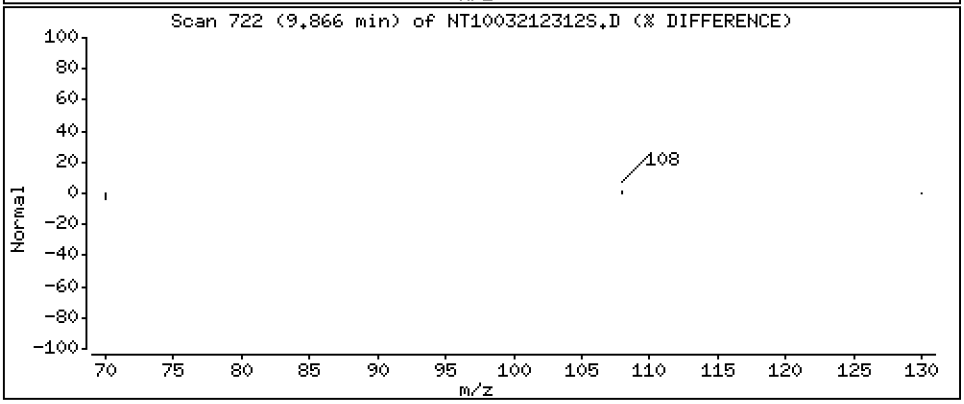












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT10032123125.D

Date : 22-MAR-2023 00:13

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-03

Volume Injected (uL): 1.0

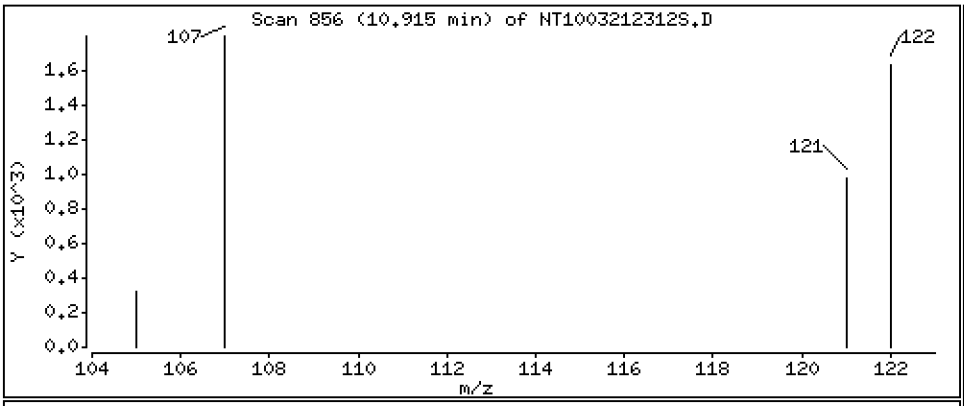
Operator: JGR

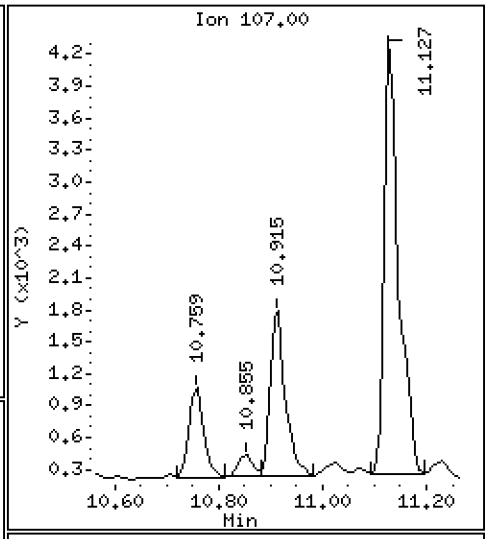
Column phase: ZB-5msi

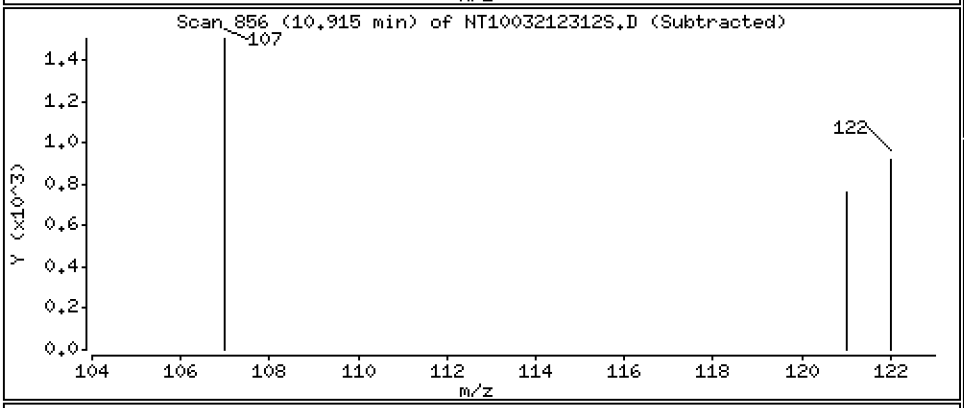
Column diameter: 0.25

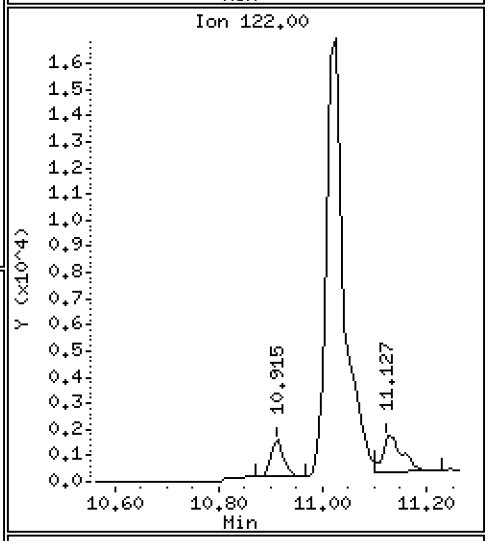
22 2,4-Dimethylphenol

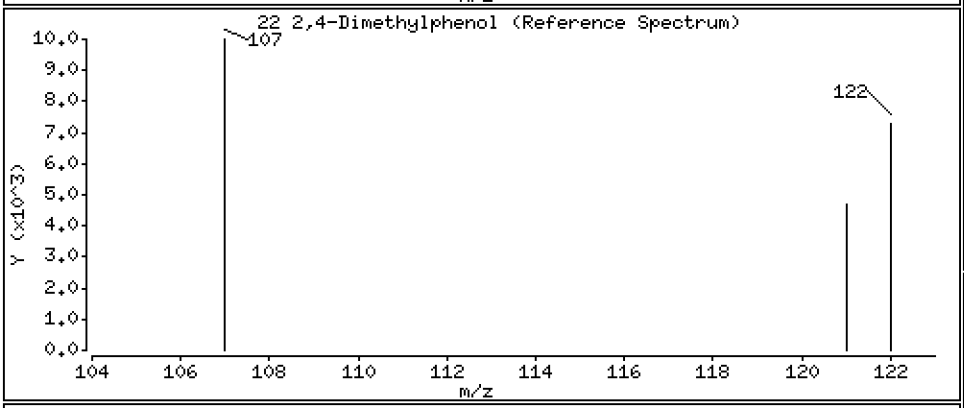
Concentration: 0.04387 ug/L

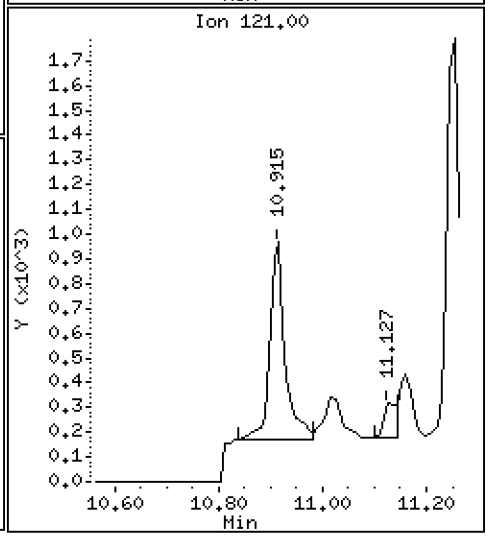


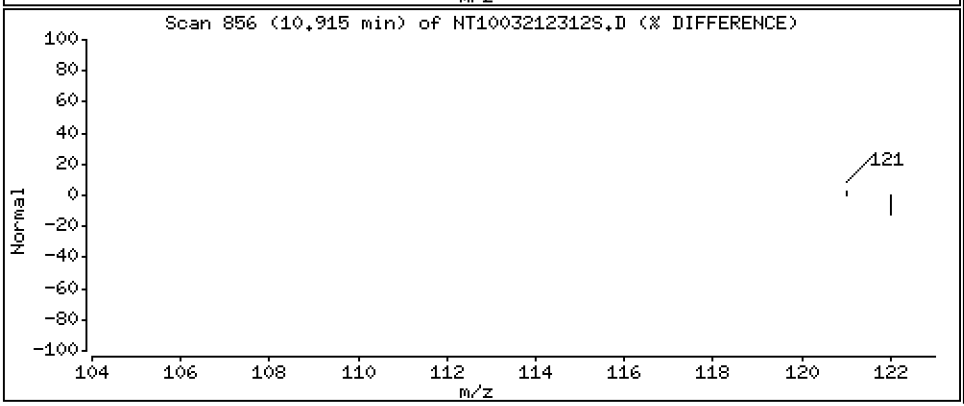












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT10032123125.D

Date : 22-MAR-2023 00:13

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-03

Volume Injected (uL): 1.0

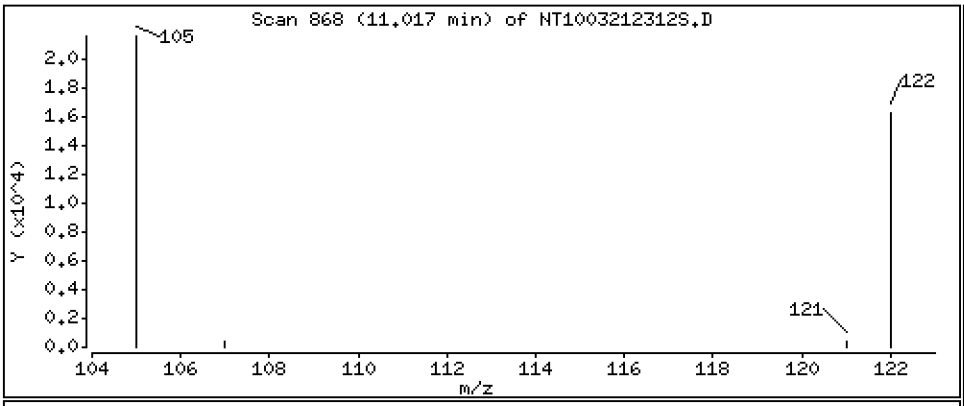
Operator: JGR

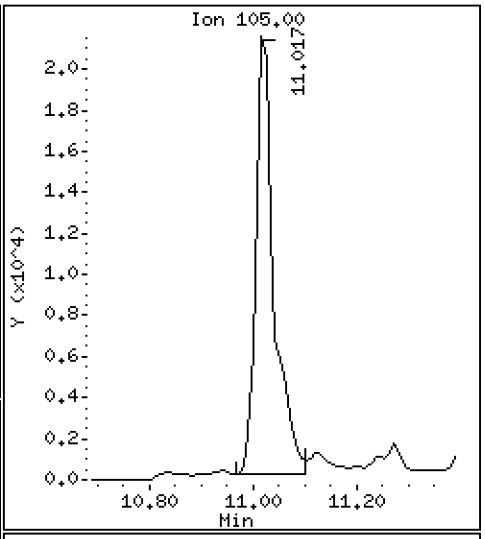
Column phase: ZB-5msi

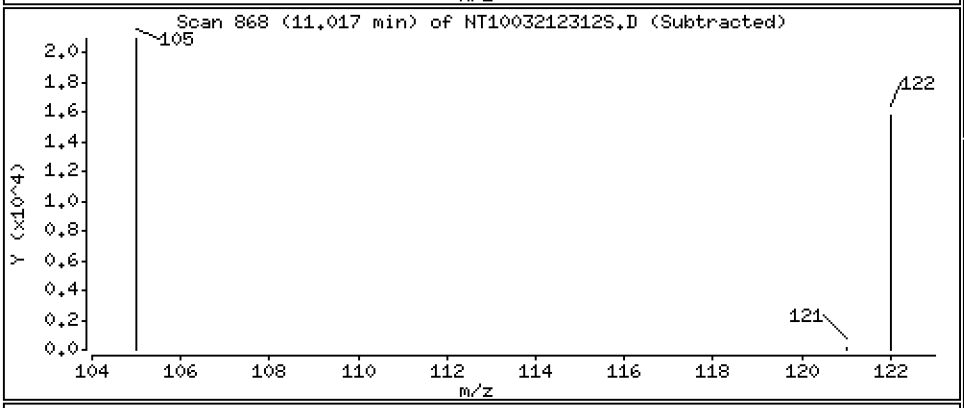
Column diameter: 0.25

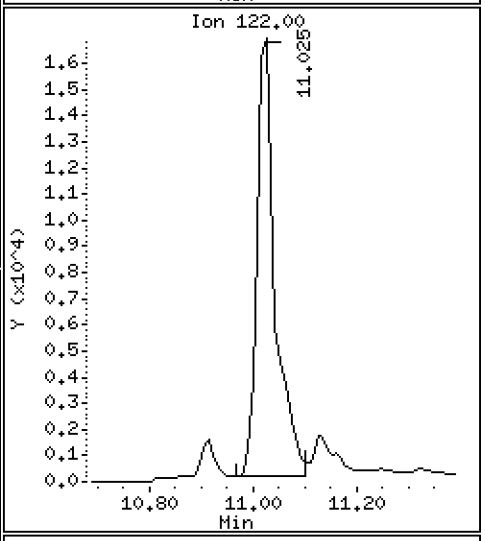
24 Benzoic acid

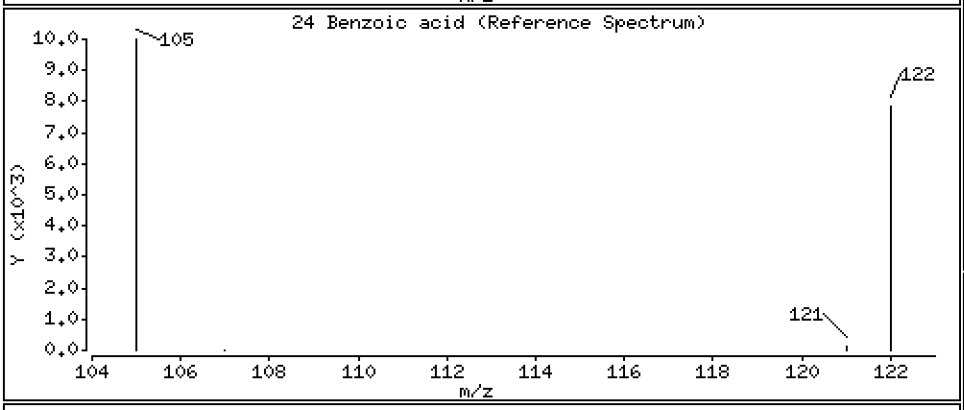
Concentration: 1.293 ug/L

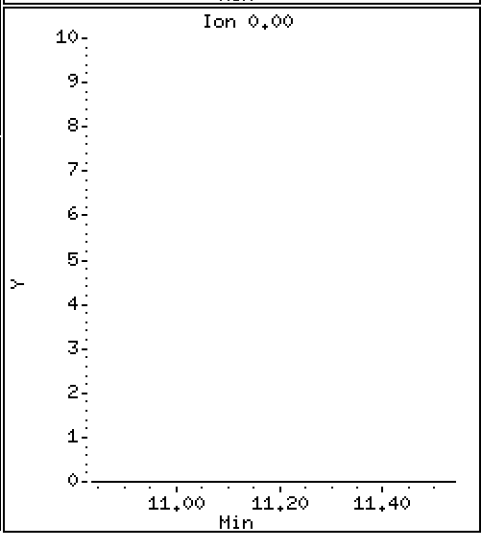


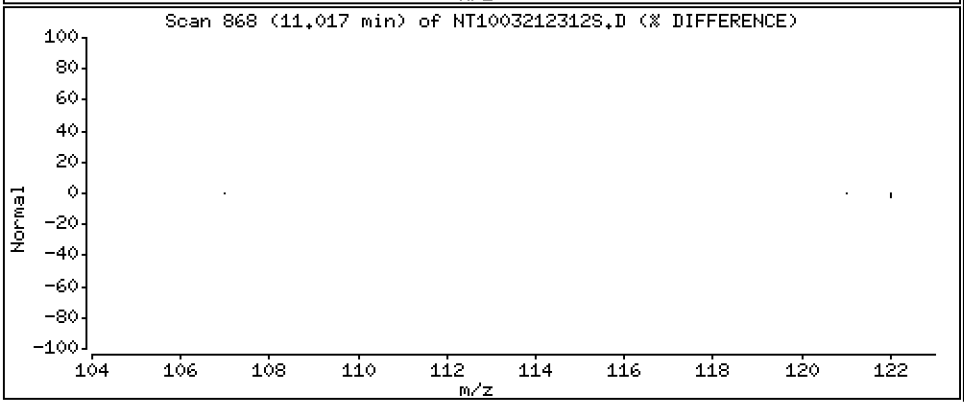












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT10032123125.D

Date : 22-MAR-2023 00:13

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-03

Volume Injected (uL): 1.0

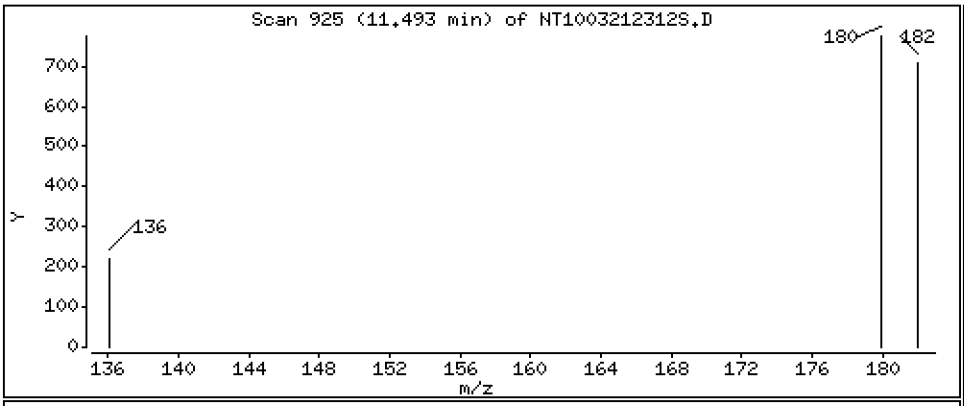
Operator: JGR

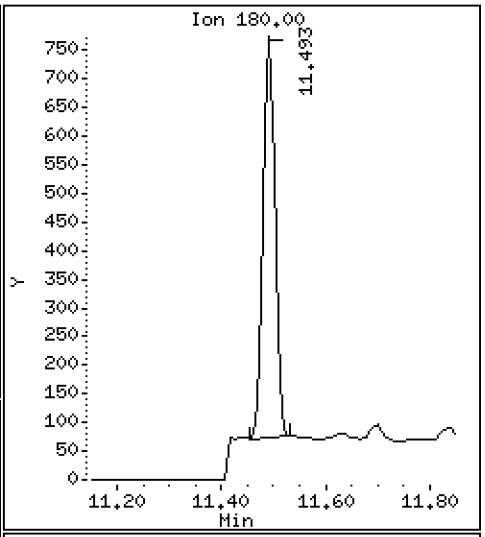
Column phase: ZB-5msi

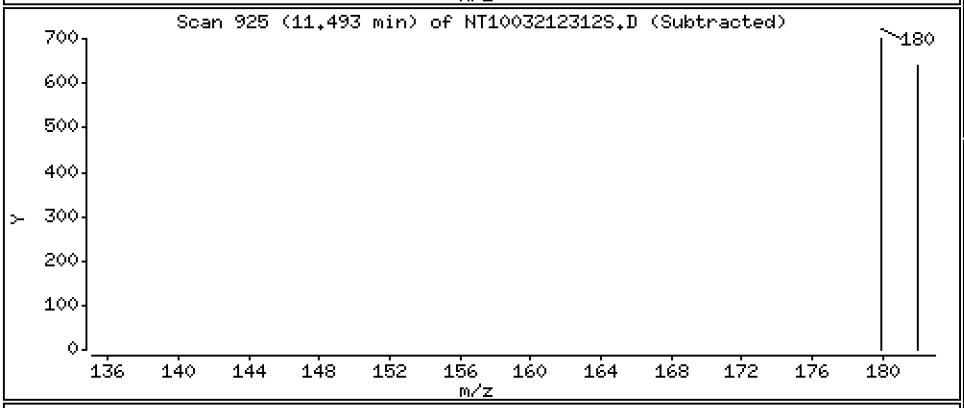
Column diameter: 0.25

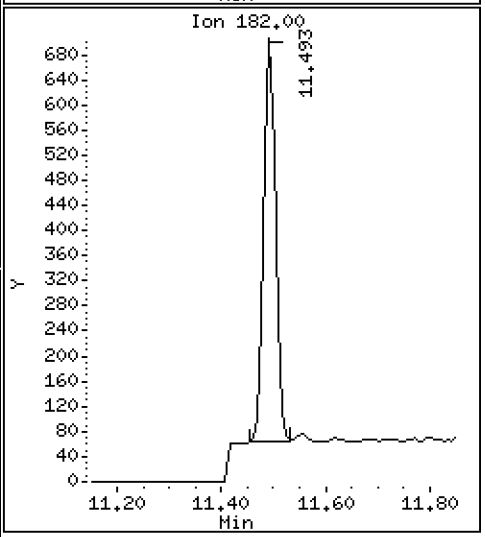
26 1,2,4-Trichlorobenzene

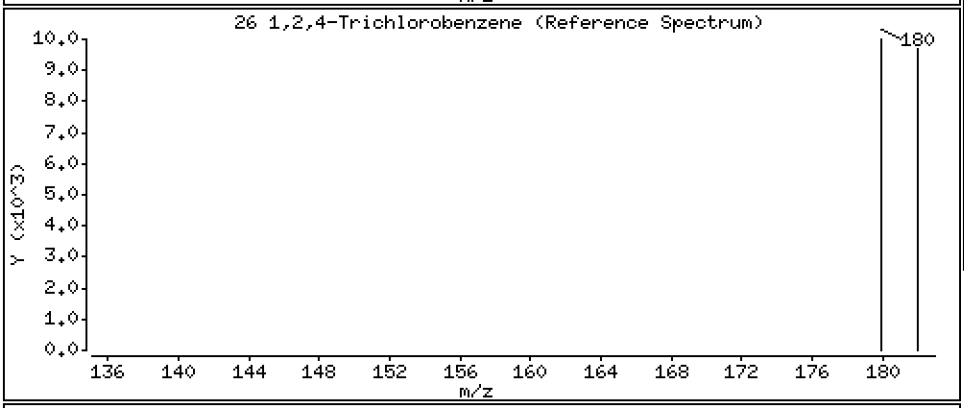
Concentration: 0.01433 ug/L

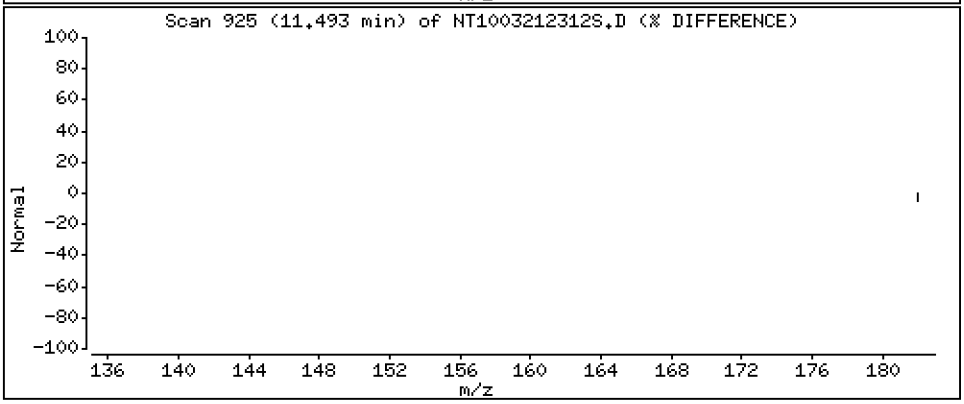












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT10032123125.D

Date : 22-MAR-2023 00:13

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-03

Volume Injected (uL): 1.0

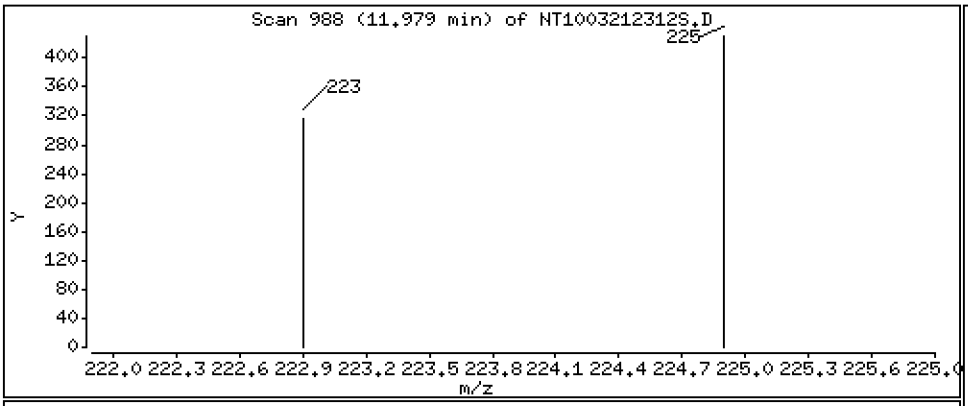
Operator: JGR

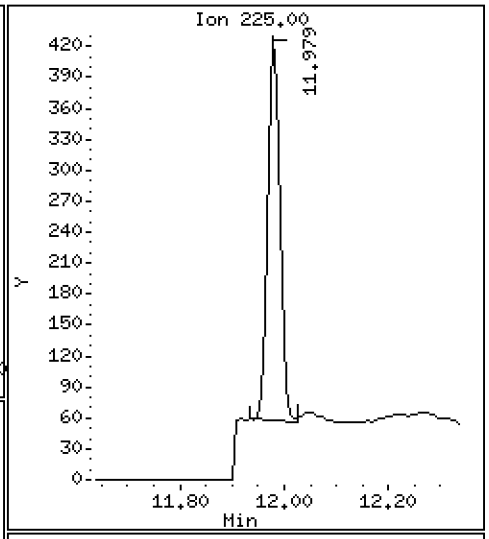
Column phase: ZB-5msi

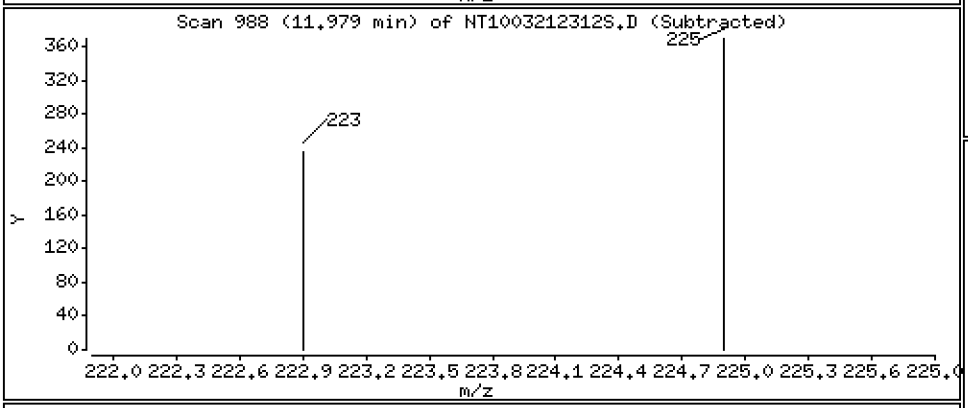
Column diameter: 0.25

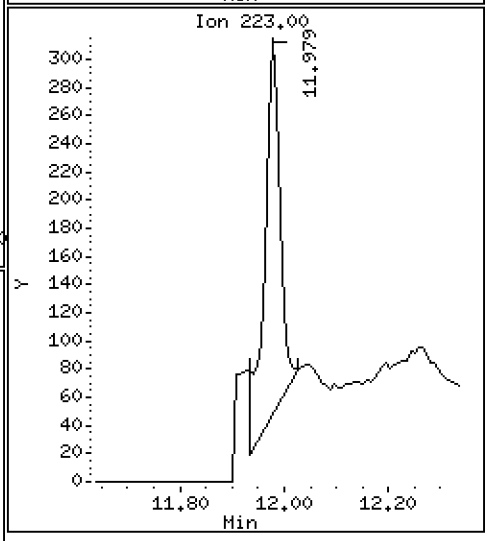
30 Hexachlorobutadiene

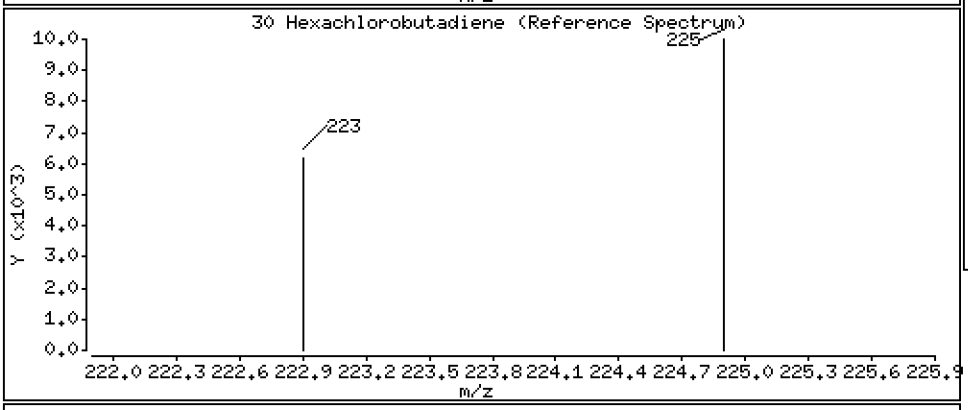
Concentration: 0.01319 ug/L

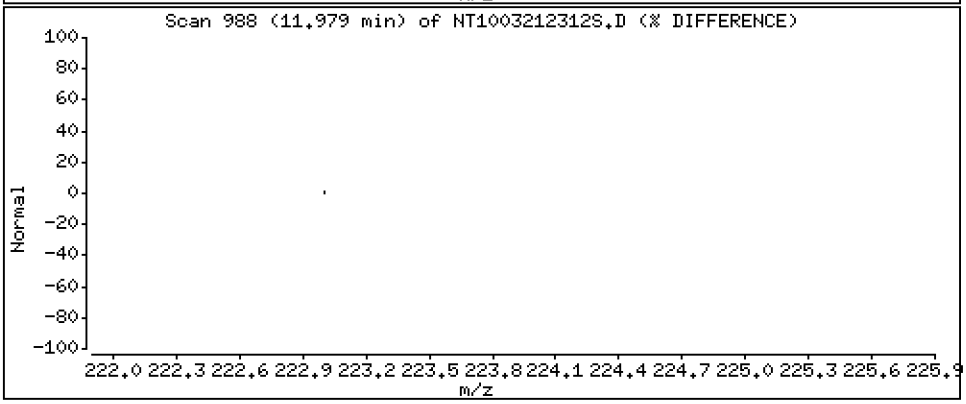












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT10032123125.D

Date : 22-MAR-2023 00:13

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-03

Volume Injected (uL): 1.0

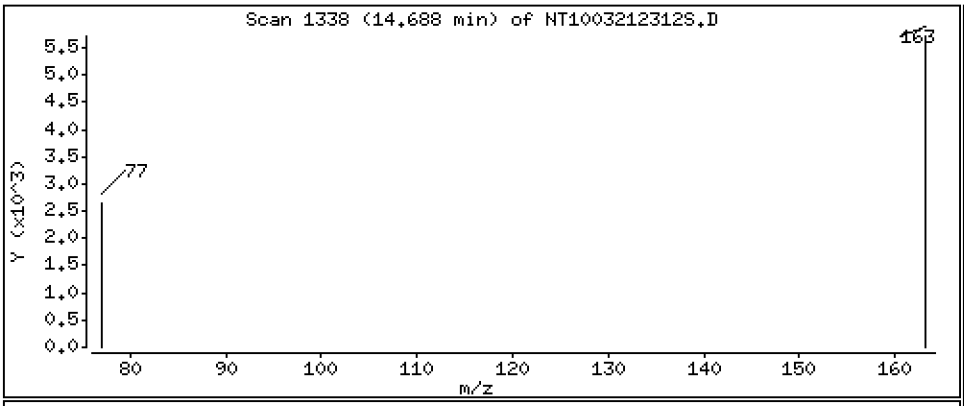
Operator: JGR

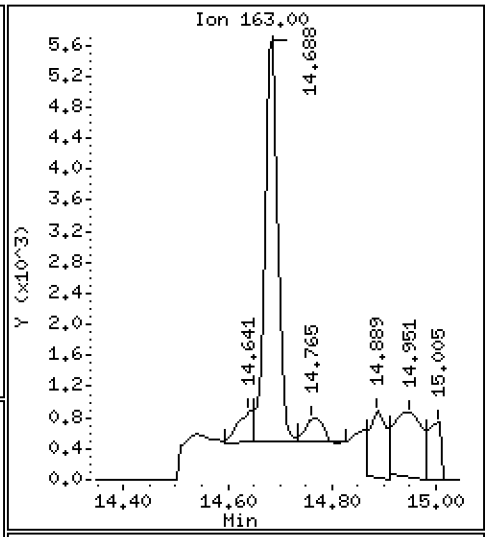
Column phase: ZB-5msi

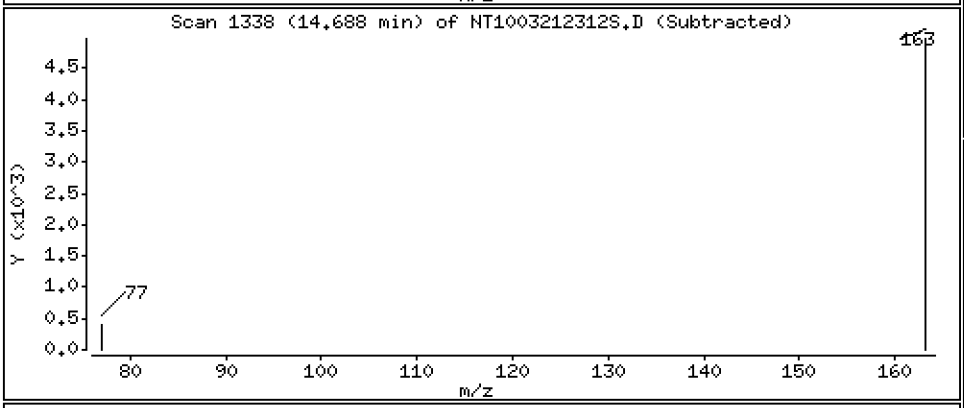
Column diameter: 0.25

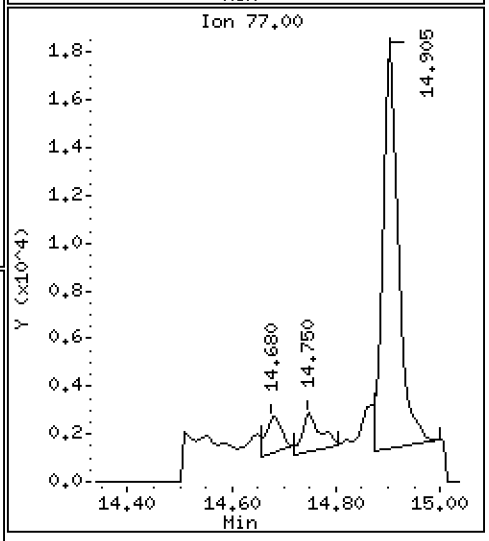
39 Dimethylphthalate

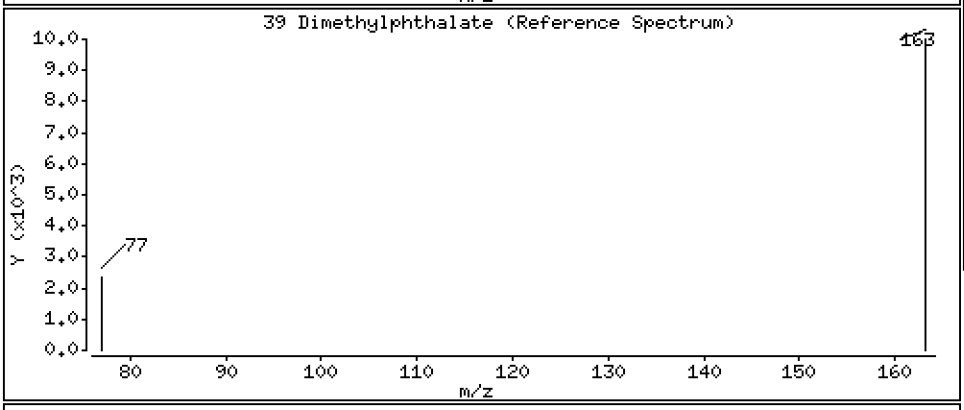
Concentration: 0.07001 ug/L

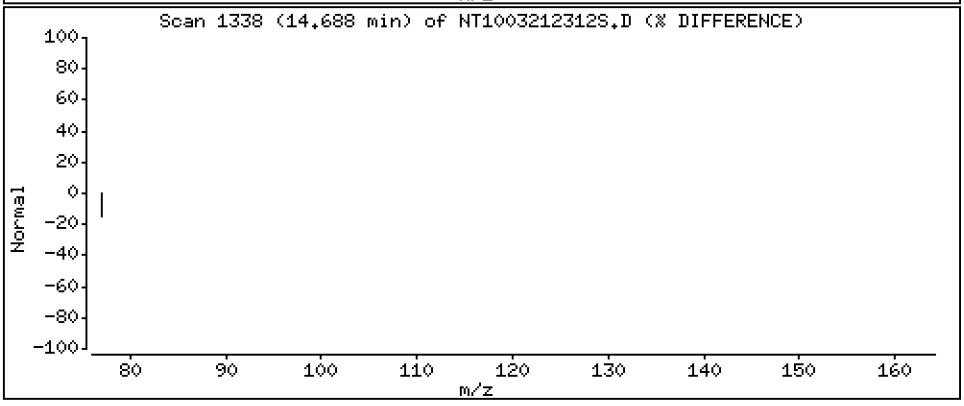












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT10032123125.D

Date : 22-MAR-2023 00:13

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-03

Volume Injected (uL): 1.0

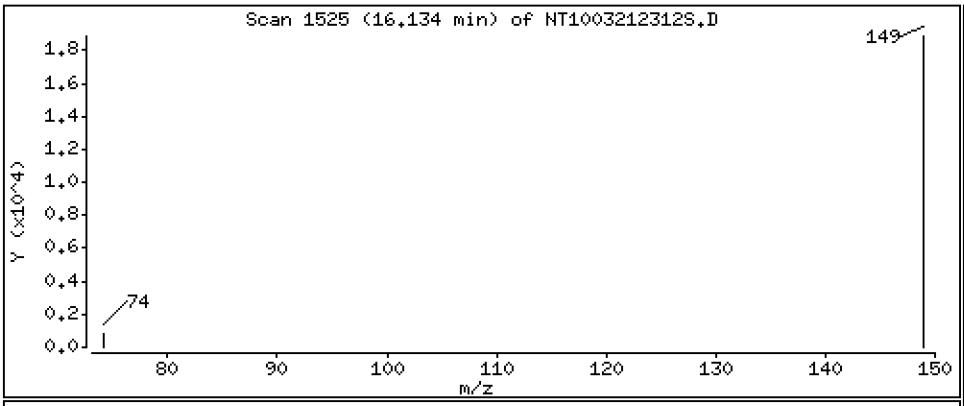
Operator: JGR

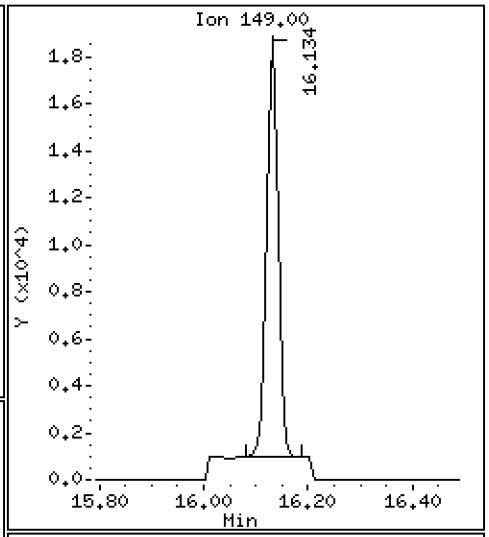
Column phase: ZB-5msi

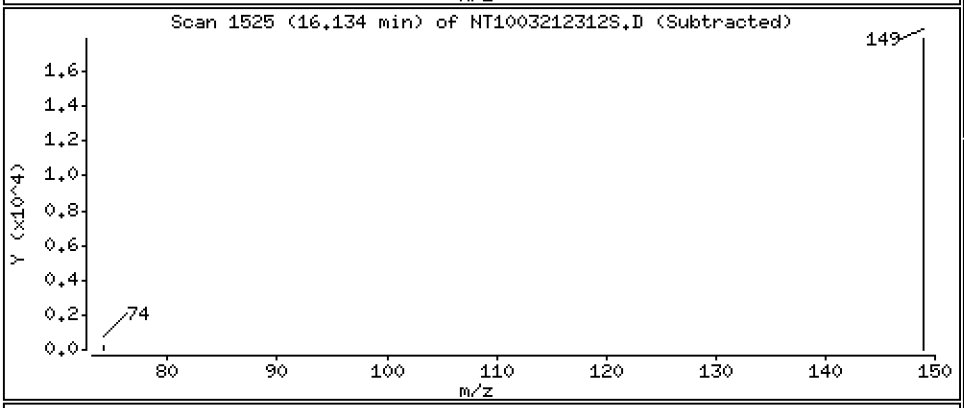
Column diameter: 0.25

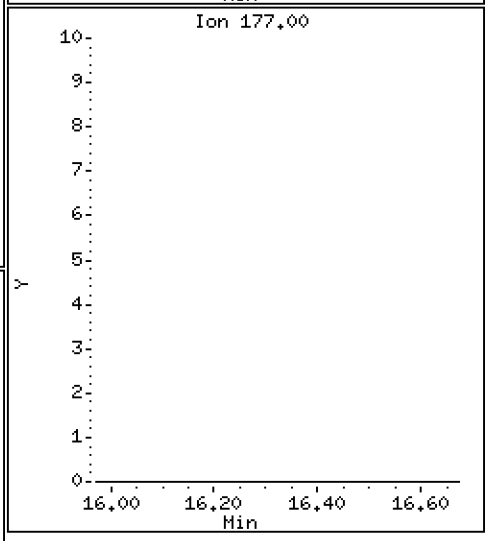
50 Diethylphthalate

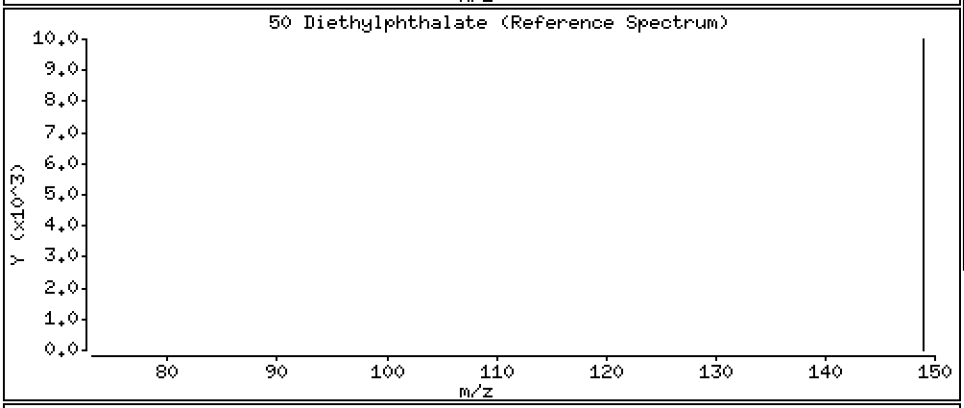
Concentration: 0.1921 ug/L

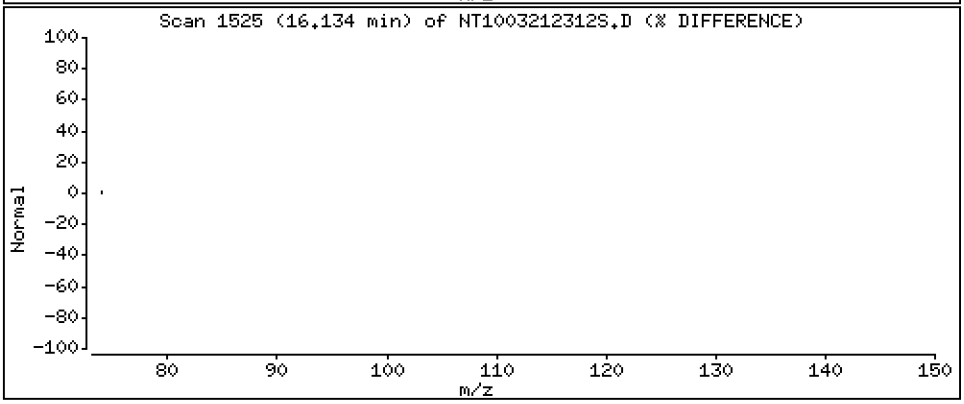












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT10032123125.D

Date : 22-MAR-2023 00:13

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-03

Volume Injected (uL): 1.0

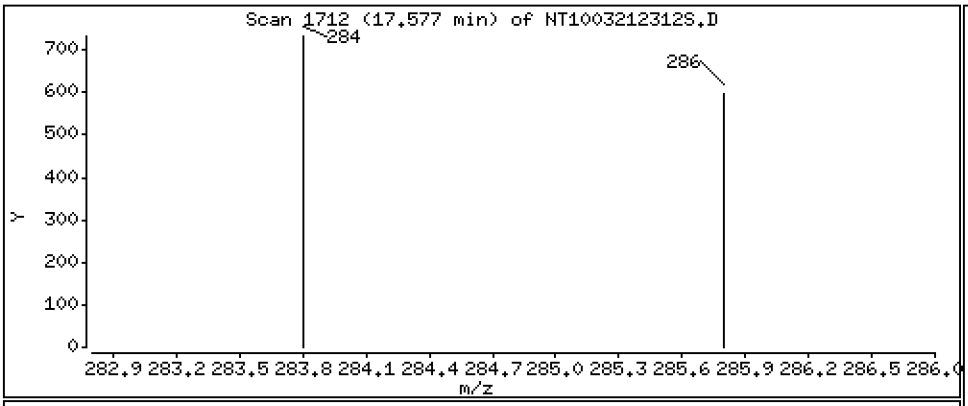
Operator: JGR

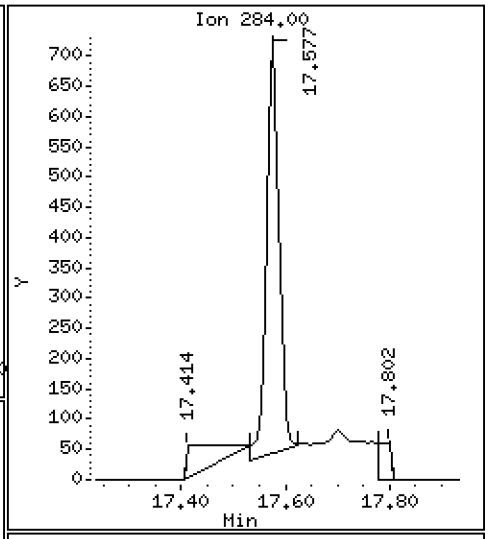
Column phase: ZB-5msi

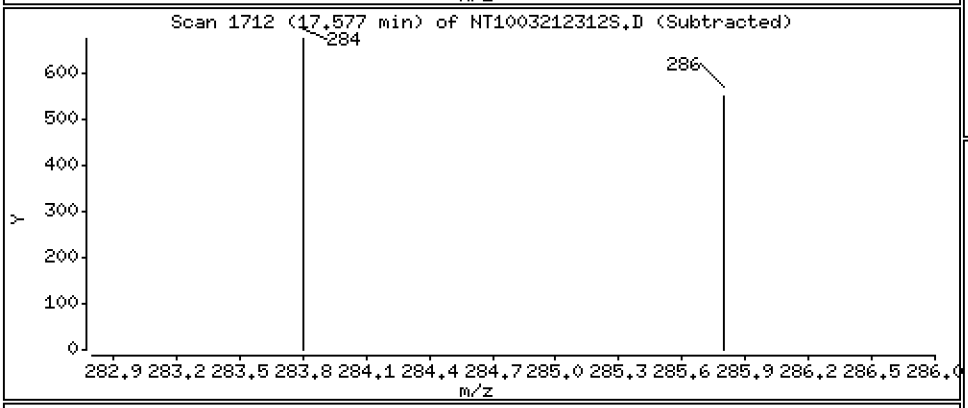
Column diameter: 0.25

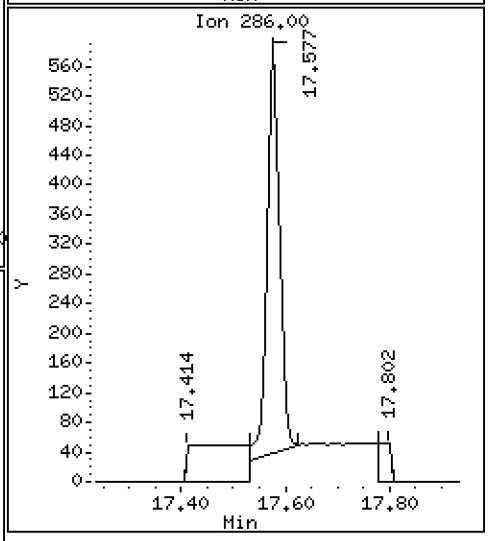
57 Hexachlorobenzene

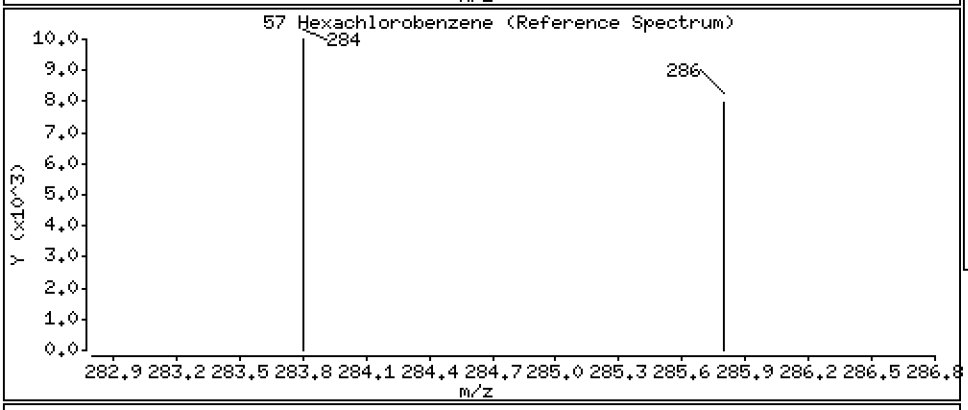
Concentration: 0.02189 ug/L

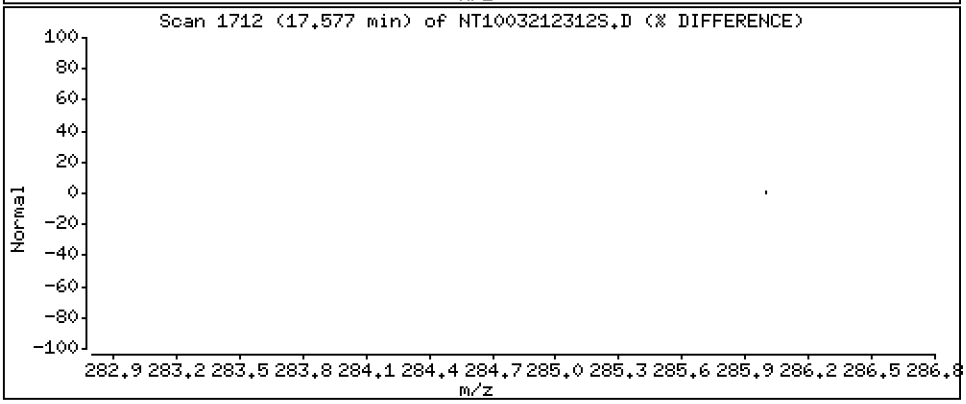












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Date : 22-MAR-2023 00:13

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-03

Volume Injected (uL): 1.0

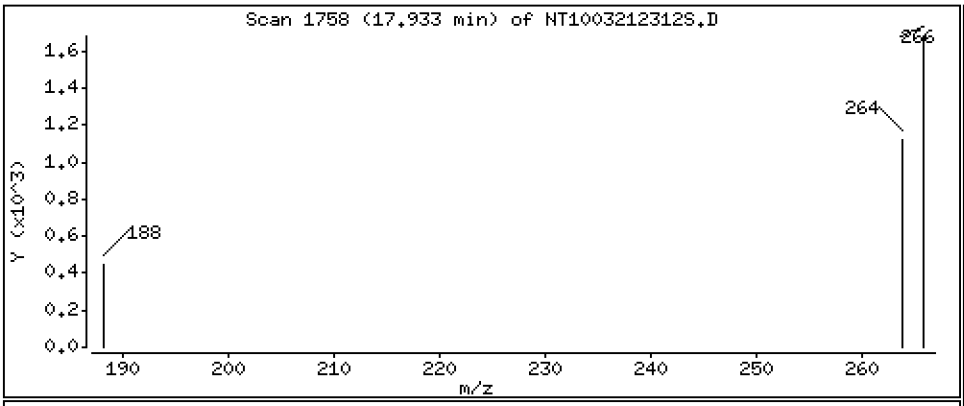
Operator: JGR

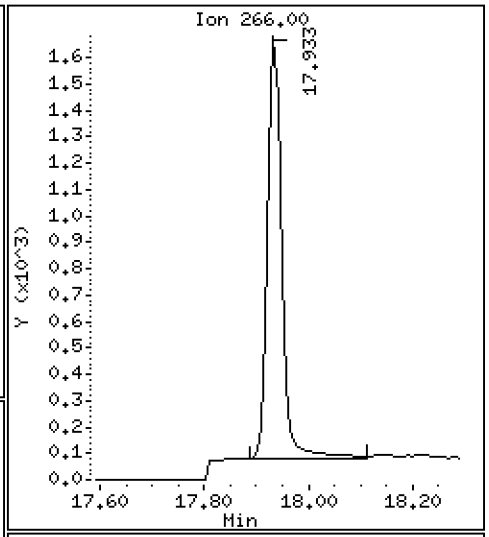
Column phase: ZB-5msi

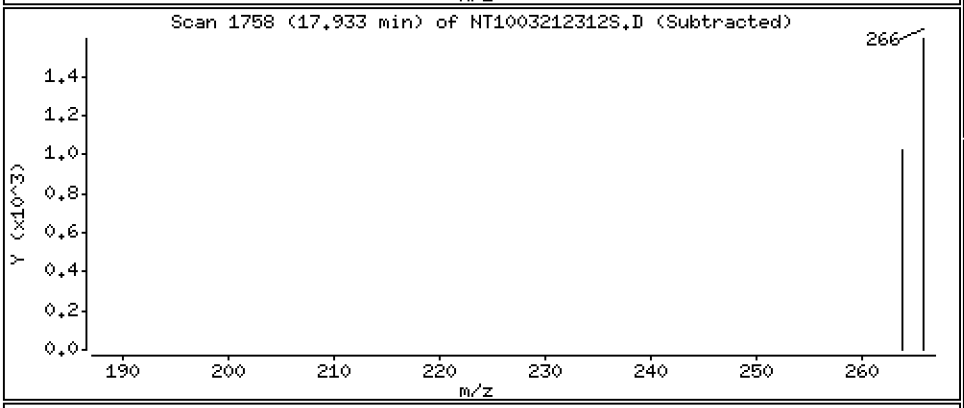
Column diameter: 0.25

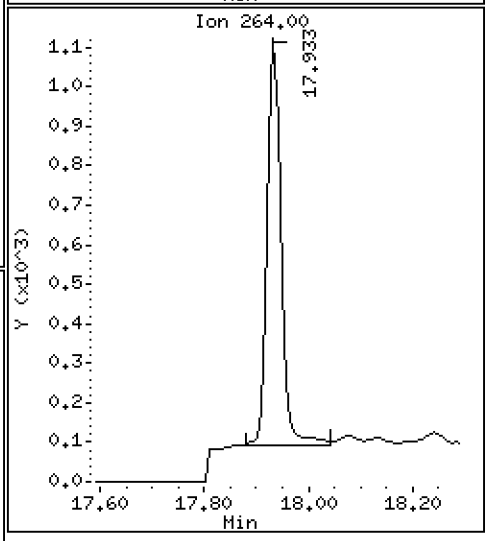
58 Pentachlorophenol

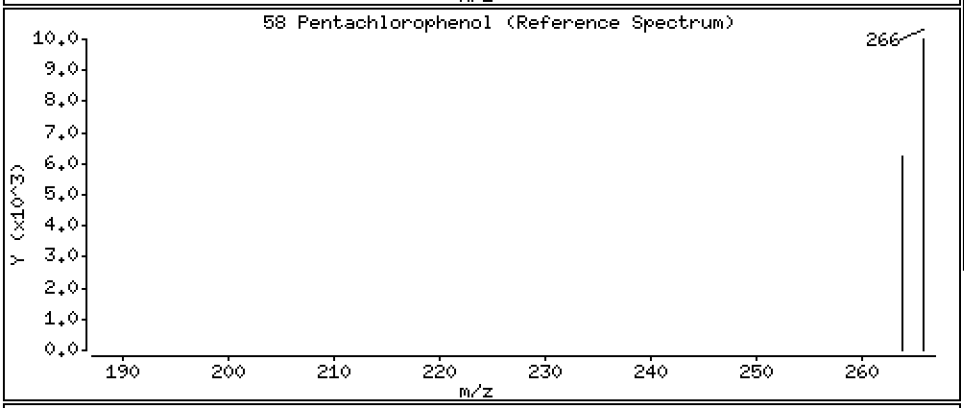
Concentration: 0.1024 ug/L

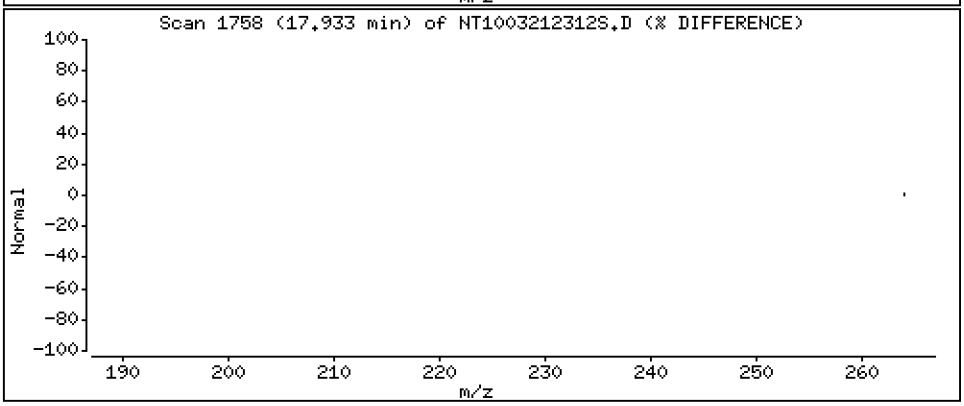












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT10032123125.D

Date : 22-MAR-2023 00:13

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-03

Volume Injected (uL): 1.0

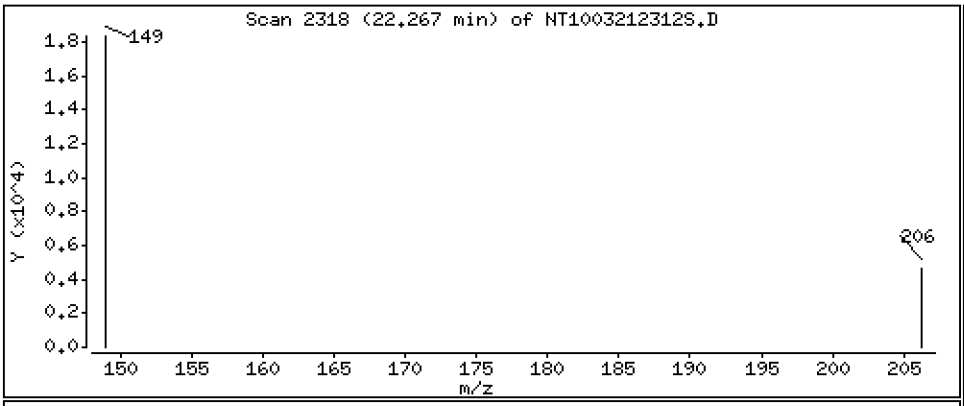
Operator: JGR

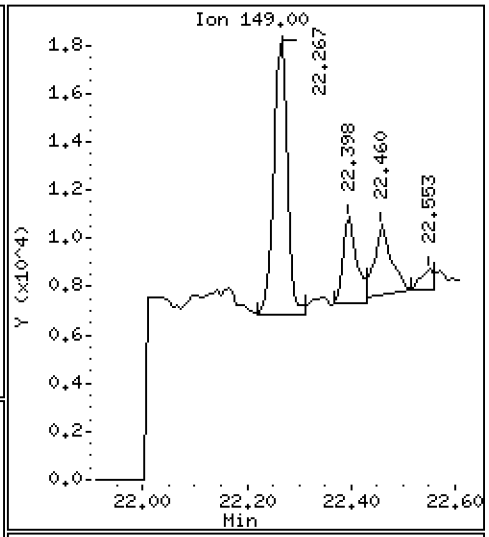
Column phase: ZB-5msi

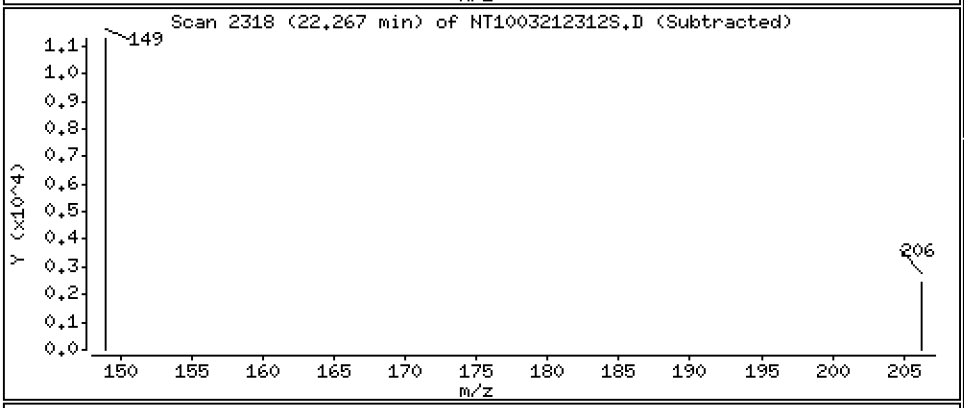
Column diameter: 0.25

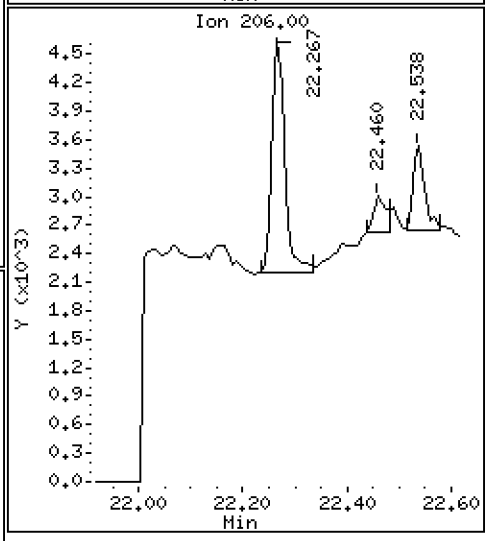
67 Butylbenzylphthalate

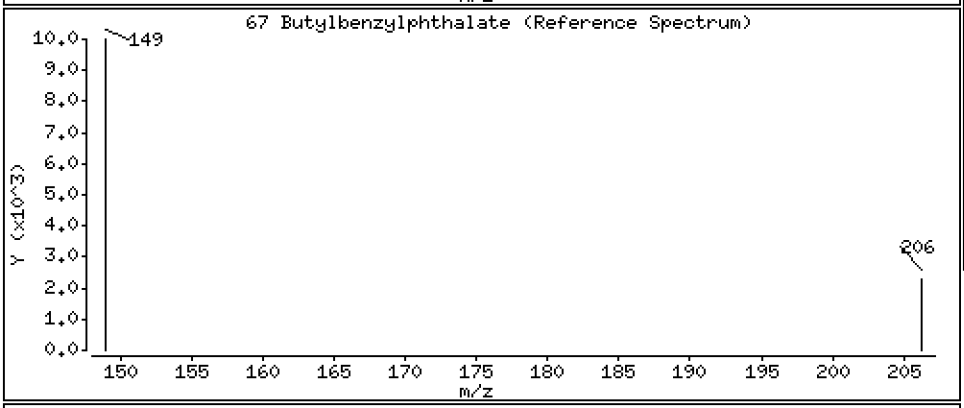
Concentration: 0.1918 ug/L

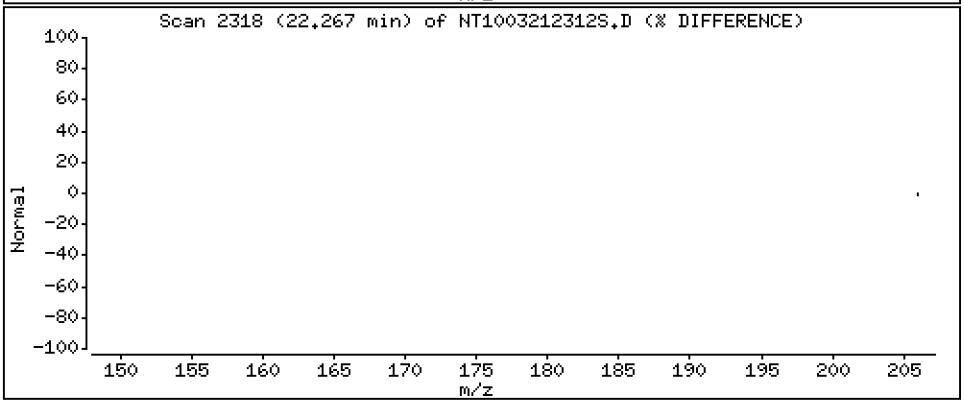












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT10032123125.D

Date : 22-MAR-2023 00:13

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-03

Volume Injected (uL): 1.0

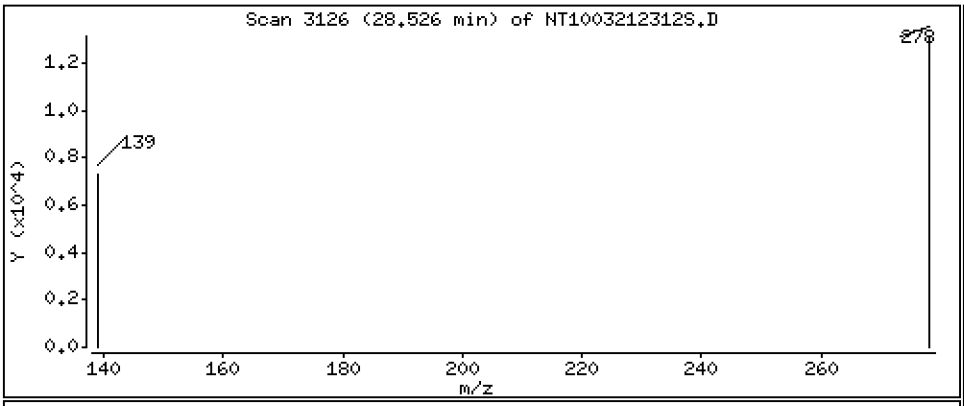
Operator: JGR

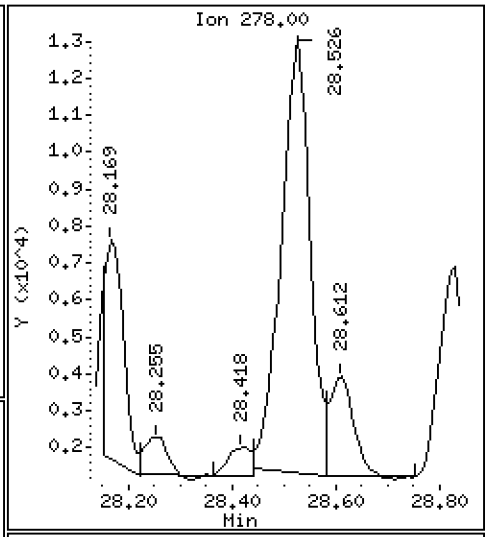
Column phase: ZB-5msi

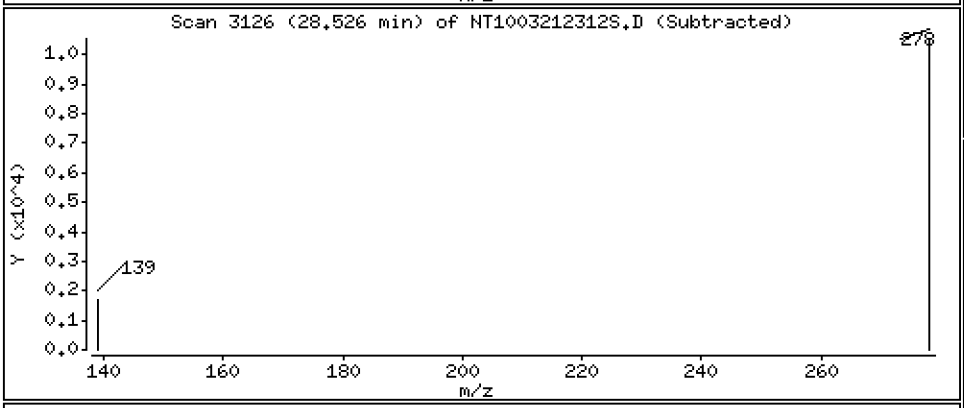
Column diameter: 0.25

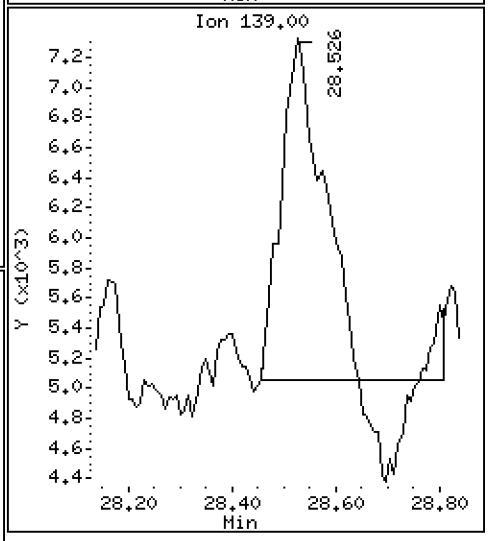
79 Dibenzo(a,h)anthracene

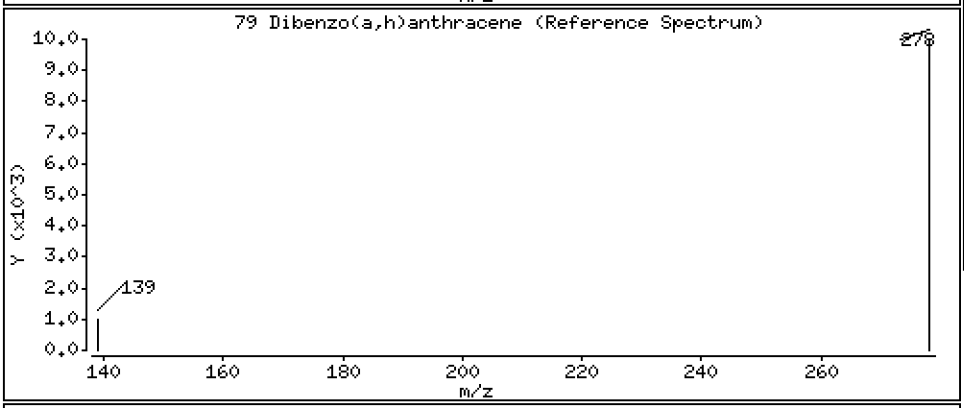
Concentration: 0.1575 ug/L

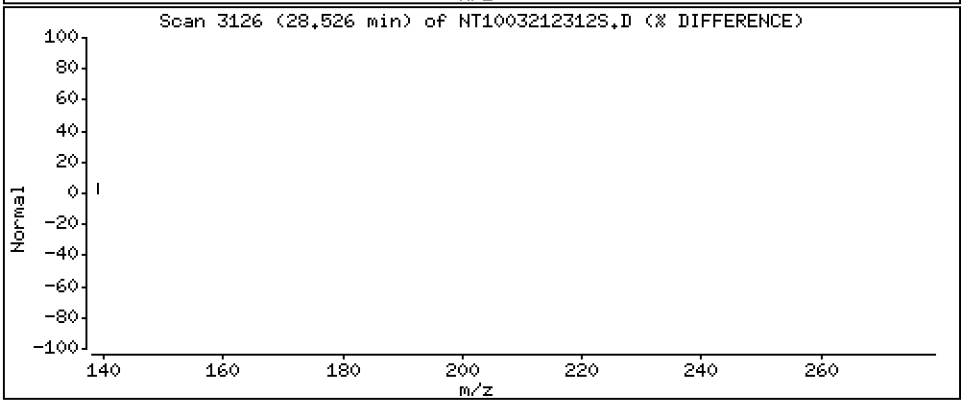












ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212312S.D
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Inj Date : 22-MAR-2023 00:13 MS Autotune Date: 16-JAN-2023 17:42
Operator : JGR Inst ID: nt10.i
Smp Info : 23C0071-03
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230321.b\20230321.b\SIMABN2.m
Meth Date : 29-Mar-2023 09:55 van Quant Type: ISTD
Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
$ 1	2-Fluorophenol	112	6.895	6.895	(0.757)	402522	5.68094	5.681(R)
3	Phenol	94	8.494	8.494	(0.933)	185521	1.90849	1.908
7	1,3-Dichlorobenzene	146	9.035	9.043	(0.992)	1216	0.01337	0.01337
* 8	1,4-Dichlorobenzene-d4	152	9.105	9.105	(1.000)	233655	4.00000	
9	1,4-Dichlorobenzene	146	9.136	9.136	(1.003)	2021	0.02302	0.02302(M)
11	Benzyl alcohol	79	9.377	9.377	(1.030)	65985	1.17087	1.171
12	1,2-Dichlorobenzene	146	9.485	9.493	(1.042)	1200	0.01390	0.01390
13	2-Methylphenol	108	9.602	9.602	(1.055)	3596	0.05339	0.05339
15	4-Methylphenol	108	9.866	9.874	(1.084)	11666	0.16668	0.1667
16	N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
22	2,4-Dimethylphenol	107	10.914	10.914	(0.943)	3170	0.04387	0.04387
24	Benzoic acid	105	11.016	11.042	(0.952)	51321	1.29285	1.293
26	1,2,4-Trichlorobenzene	180	11.492	11.500	(0.993)	1042	0.01433	0.01433(M)
* 27	Naphthalene-d8	136	11.577	11.585	(1.000)	836002	4.00000	
30	Hexachlorobutadiene	225	11.979	11.987	(1.035)	583	0.01319	0.01319
39	Dimethylphthalate	163	14.687	14.695	(0.968)	8989	0.07001	0.07001
* 42	Acenaphthene-d10	162	15.175	15.183	(1.000)	406868	4.00000	
50	Diethylphthalate	149	16.134	16.141	(1.063)	25553	0.19211	0.1921(M)
54	N-Nitrosodiphenylamine	169	Compound Not Detected.					
57	Hexachlorobenzene	284	17.577	17.584	(0.966)	1108	0.02189	0.02189

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	58 Pentachlorophenol	266	17.933	17.941	(0.986)	2862	0.10240	0.1024
*	59 Phenanthrene-d10	188	18.196	18.196	(1.000)	842614	4.00000	
$	66 Terphenyl-d14	244	21.337	21.337	(0.918)	620903	4.96894	4.969(R)
	67 Butylbenzylphthalate	149	22.266	22.259	(0.958)	19365	0.19177	0.1918
*	69 Chrysene-d12	240	23.242	23.234	(1.000)	766908	4.00000	
*	77 Perylene-d12	264	25.859	25.836	(1.000)	909640	4.00000	
	79 Dibenzo(a,h)anthracene	278	28.526	28.487	(1.103)	47014	0.15755	0.1575
	90 N-Nitrosodimethylamine	74	Compound Not Detected.					

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1003212312S.D
Lab Smp Id: 23C0071-03
Analysis Type: SV
Quant Type: ISTD
Operator: JGR
Method File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\SIMABN2.m
Misc Info:

Calibration Date: 21-MAR-2023
Calibration Time: 18:25
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	162628	81314	325256	233655	43.67
27 Naphthalene-d8	580280	290140	1160560	836002	44.07
42 Acenaphthene-d10	297255	148628	594510	406868	36.88
59 Phenanthrene-d10	561093	280547	1122186	842614	50.17
69 Chrysene-d12	498827	249414	997654	766908	53.74
77 Perylene-d12	558480	279240	1116960	909640	62.88

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.11	8.61	9.61	9.11	-0.00
27 Naphthalene-d8	11.59	11.09	12.09	11.58	-0.07
42 Acenaphthene-d10	15.18	14.68	15.68	15.18	-0.05
59 Phenanthrene-d10	18.20	17.70	18.70	18.20	-0.00
69 Chrysene-d12	23.23	22.73	23.73	23.24	0.03
77 Perylene-d12	25.84	25.34	26.34	25.86	0.09

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

REVIEW SUMMARY FOR FILE - NT1003212312S.D

Lab ID: 23C0071-03
nt10.i, 20230321.b\20230321.b\SIMABN2.m,   22-MAR-2023 00:13

RT	CO-ELUTION COMPOUNDS
NO CO-ELUTIONS	

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
NONE			

RRT check based on Ccal File: 20230321.b/NT1003212303S.D

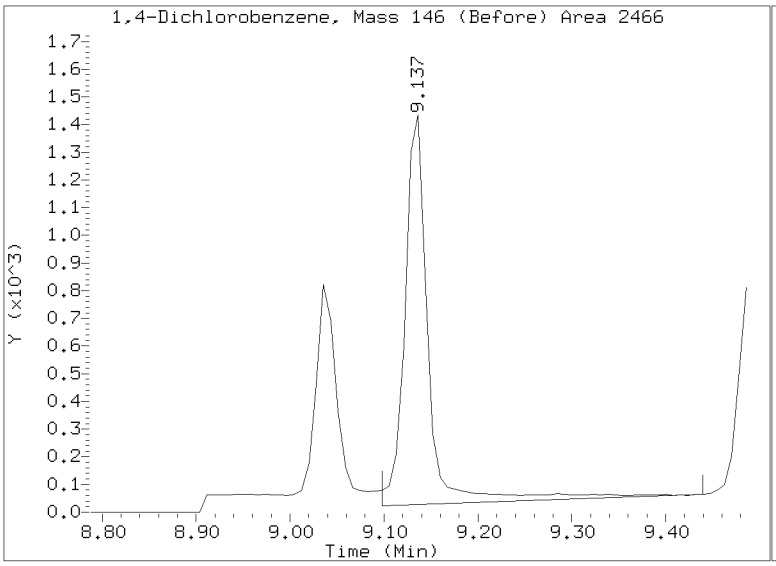
On Column LOD for nt10.i, 20230321.b\SIMABN2.m, PSDDA.sub = 0.0000

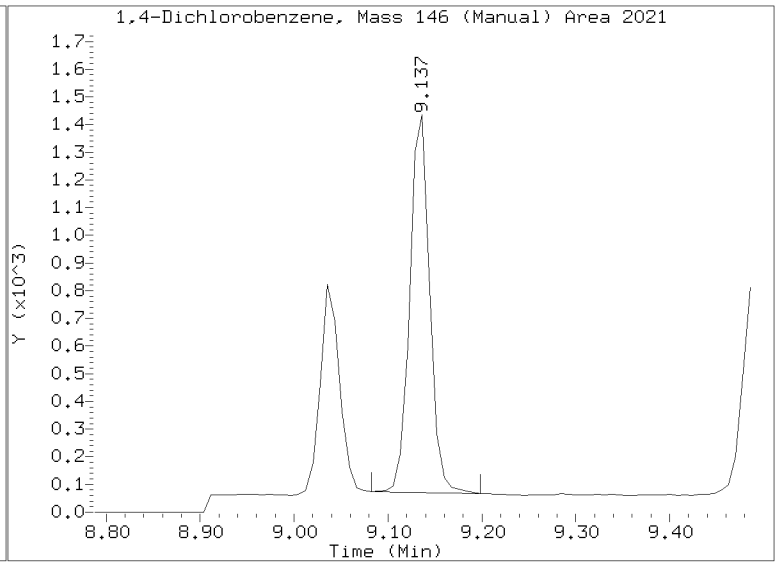
Exception: 1,2,4-Trichlorobenzene 0.0010

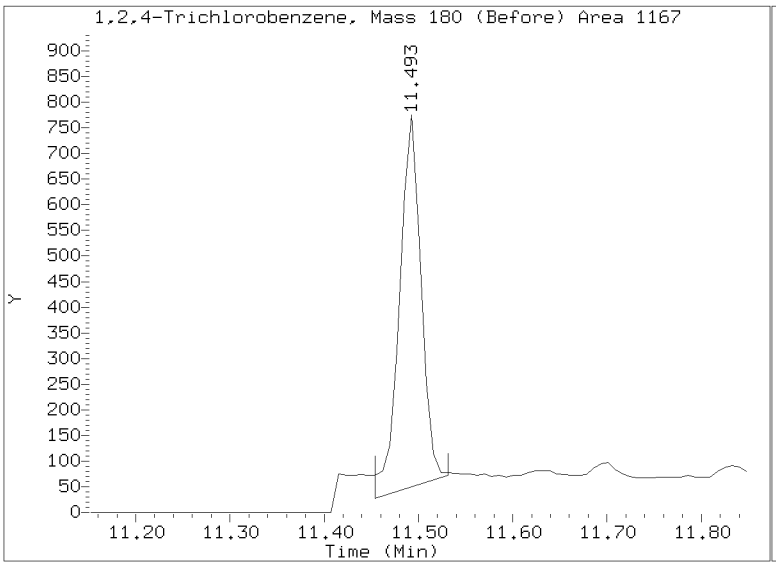
* Only compounds listed in the work order have been verified by the analyst *

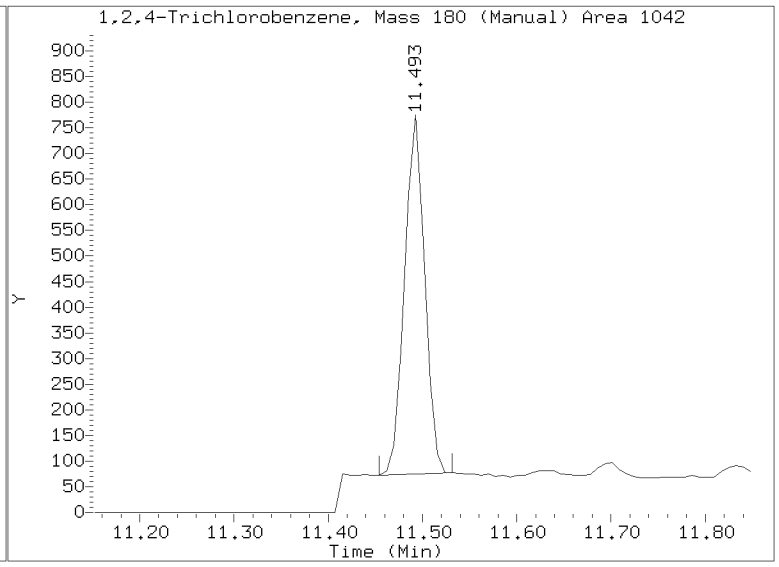
Quant Ion Manual Peak Adjustment Report

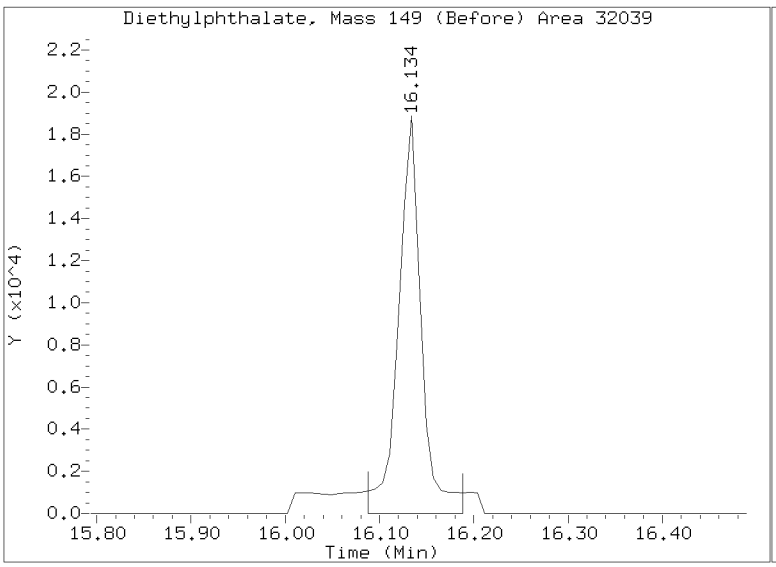
Datafile: //target/share/chem3/nt10.i/20230321.b/20230321.b/NT1003212312S.D
Injection Date: 22-MAR-2023 00:13
Lab ID:23C0071-03 Client ID:
Report Date: 03/29/2023 13:24

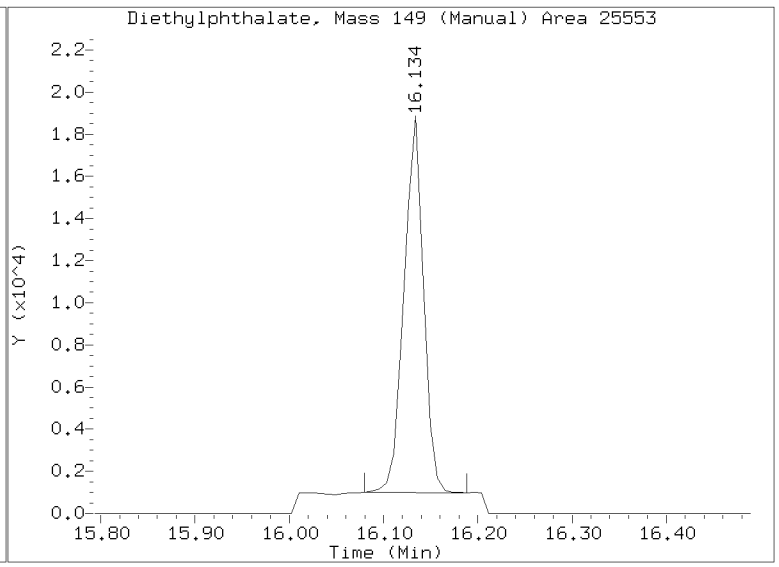












Analytical Resources, LLC
Analytical Chemists and Consultants

LDW23-SS1044

Form I

ORGANIC ANALYSIS DATA SHEET

EPA 8270E-SIM

SIM SVOC Organics (Dual scan list)

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0071-04 A	SDG:	23C0071
Sampled:	03/02/23 10:22	Prepared:	03/07/23 10:21	File ID:	NT1003212313S.D
% Solids:	47.78	Preparation:	EPA 3546 (Microwave)	Analyzed:	03/22/23 00:52
Batch:	BLC0109	Sequence:	SLC0452	Initial/Final:	20.95 g Wet / 1 mL
Instrument:	NT10	Column:	ZB-5MSi	Calibration:	GC00049
Cleanups:	GPC				

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
106-46-7	1,4-Dichlorobenzene	1	1.5	J	0.6	5.0
95-50-1	1,2-Dichlorobenzene	1	5.0	U	0.7	5.0
100-51-6	Benzyl Alcohol	1	107		2.5	20.0
65-85-0	Benzoic acid	1	89.9	J	13.4	99.9
105-67-9	2,4-Dimethylphenol	1	2.6	J	2.2	20.0
120-82-1	1,2,4-Trichlorobenzene	1	5.0	U	2.7	5.0
86-30-6	N-Nitrosodiphenylamine	1	5.0	U	1.3	5.0
87-86-5	Pentachlorophenol	1	4.9	J	2.1	20.0

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorophenol	749.26	498	66.4	27 - 120	
p-Terphenyl-d14	499.51	443	88.7	37 - 120	

Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT10032123135.D

Date : 22-MAR-2023 00:52

Client ID:

Instrument: nt10.i

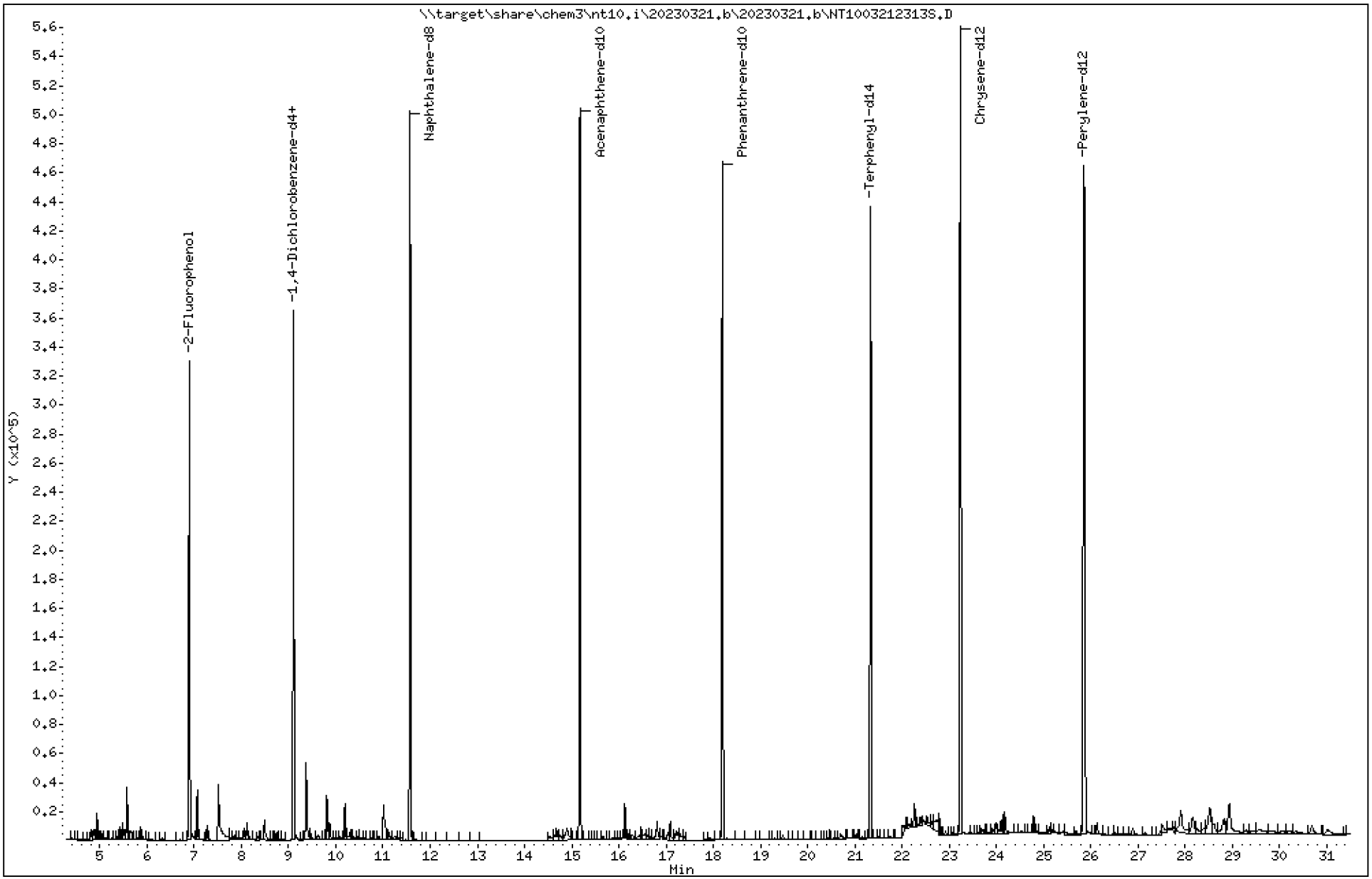
Sample Info: 23C0071-04

Volume Injected (uL): 1.0

Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25



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Date : 22-MAR-2023 00:52

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-04

Volume Injected (uL): 1.0

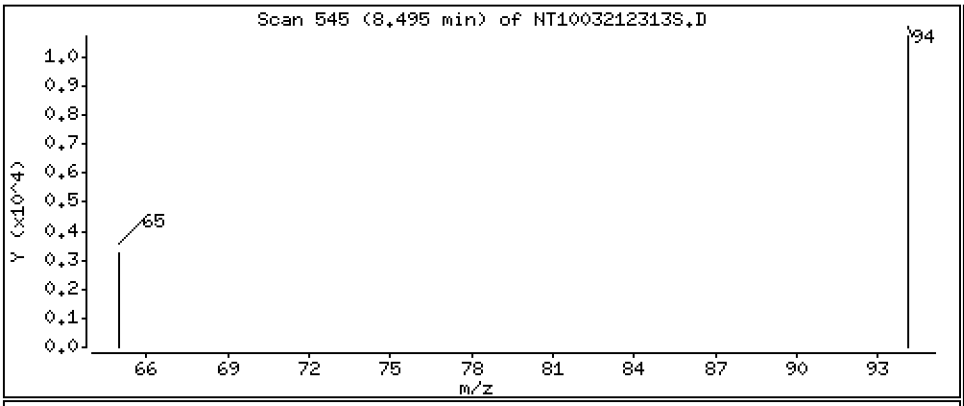
Operator: JGR

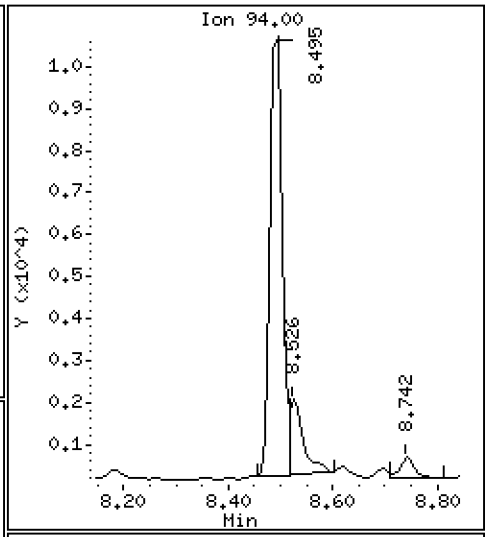
Column phase: ZB-5msi

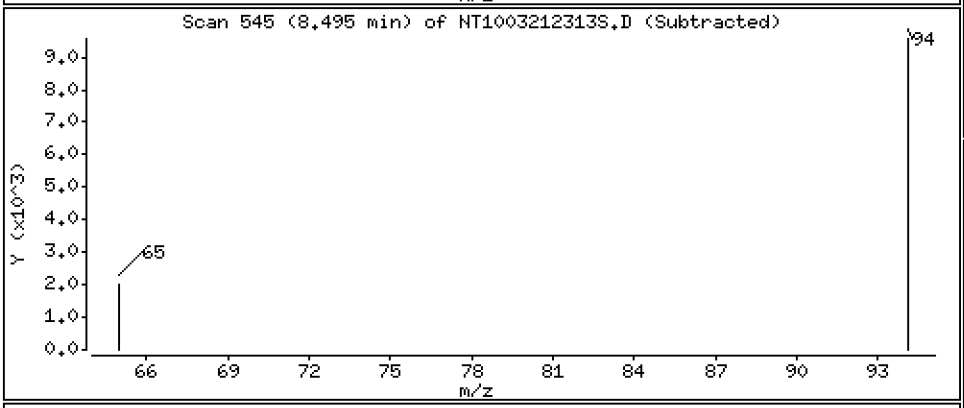
Column diameter: 0.25

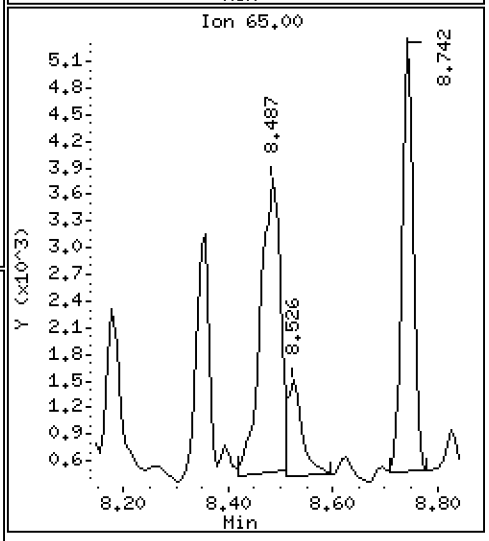
3 Phenol

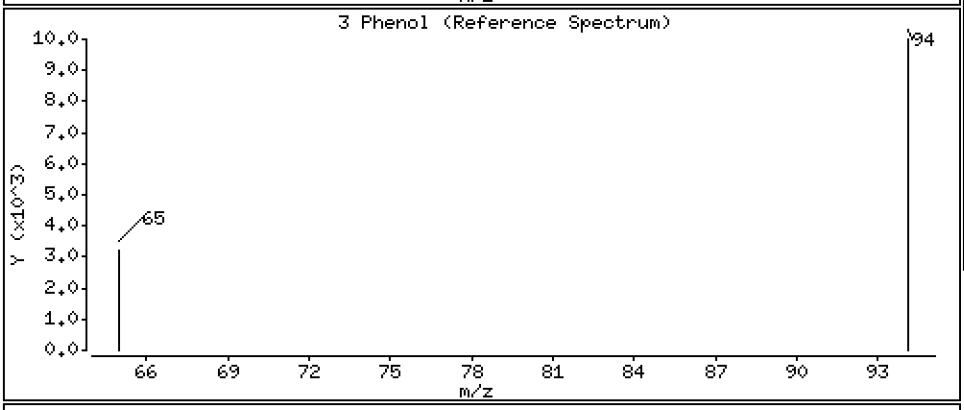
Concentration: 0.1756 ug/L

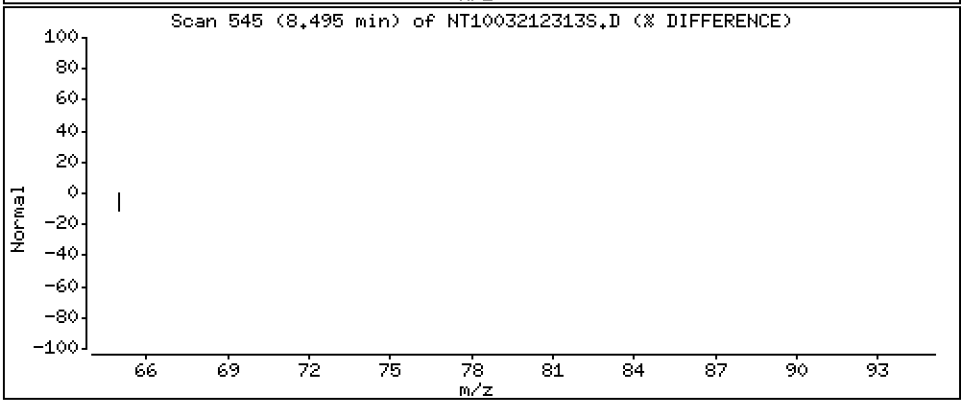












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Date : 22-MAR-2023 00:52

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-04

Volume Injected (uL): 1.0

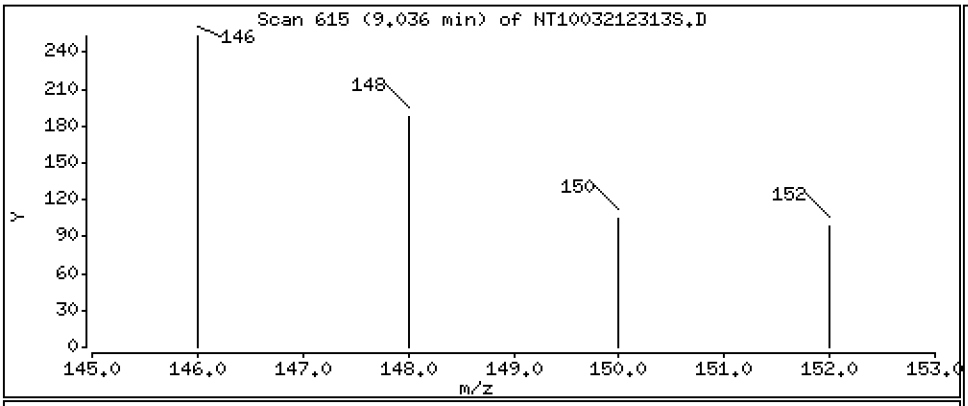
Operator: JGR

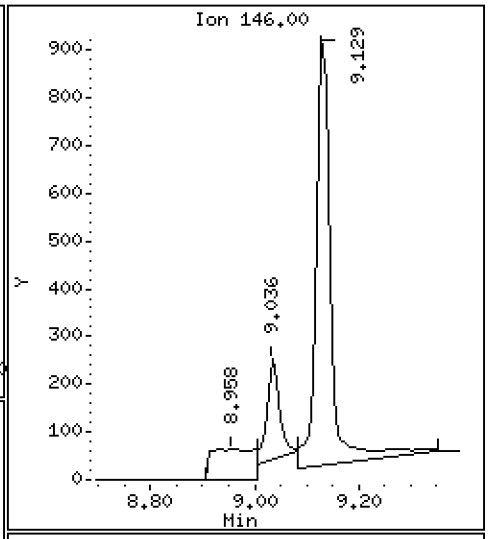
Column phase: ZB-5msi

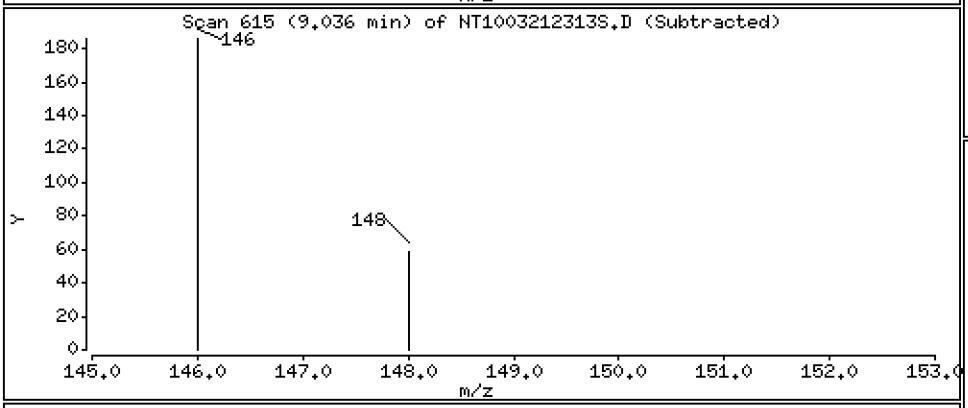
Column diameter: 0.25

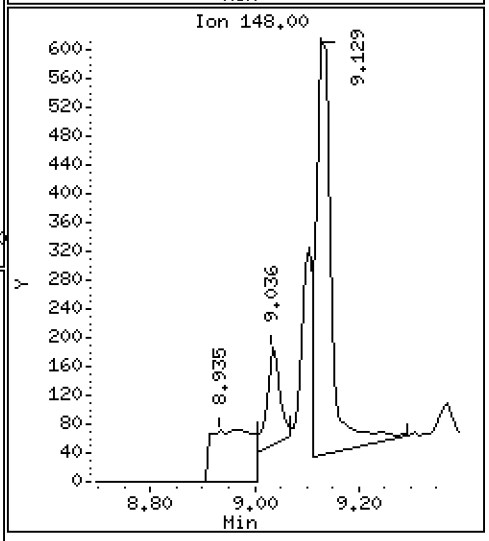
7 1,3-Dichlorobenzene

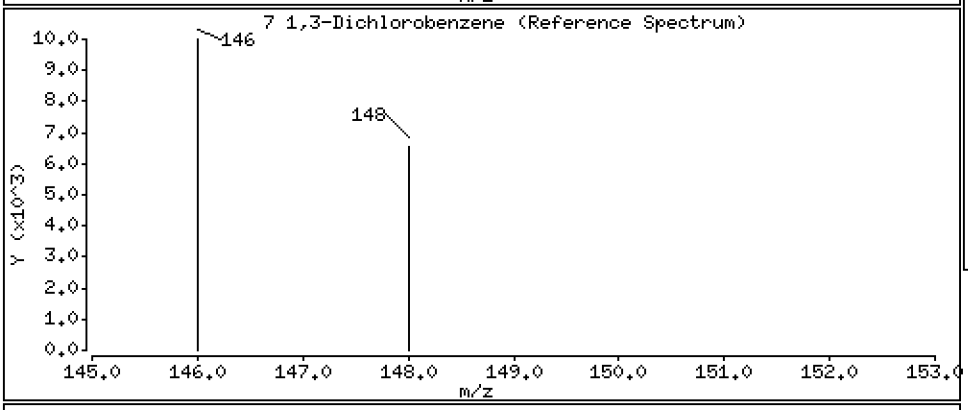
Concentration: 0.004057 ug/L

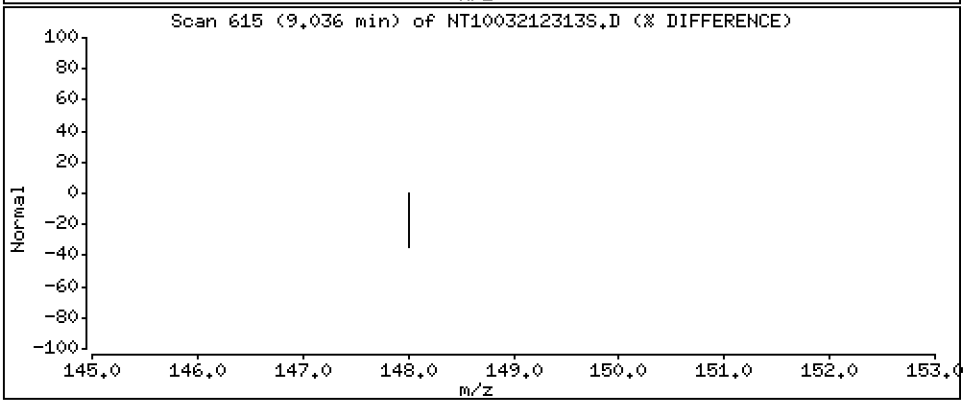












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Date : 22-MAR-2023 00:52

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-04

Volume Injected (uL): 1.0

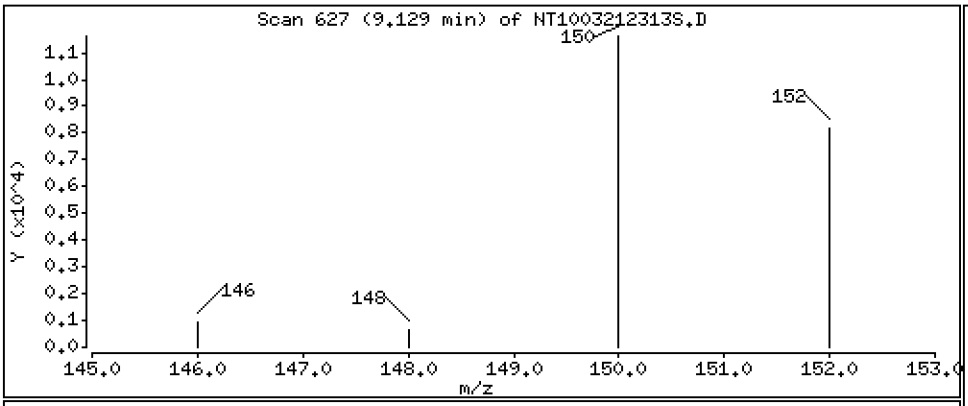
Operator: JGR

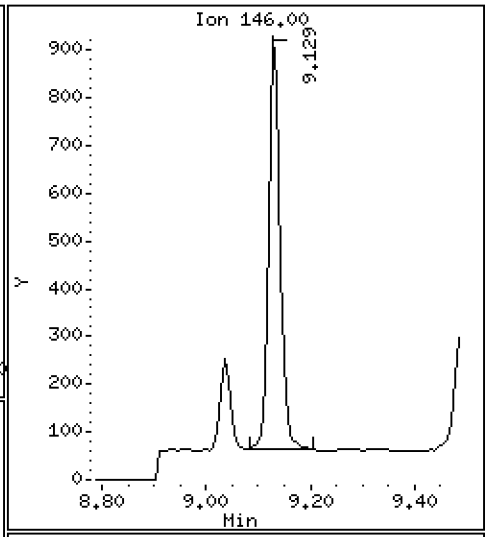
Column phase: ZB-5msi

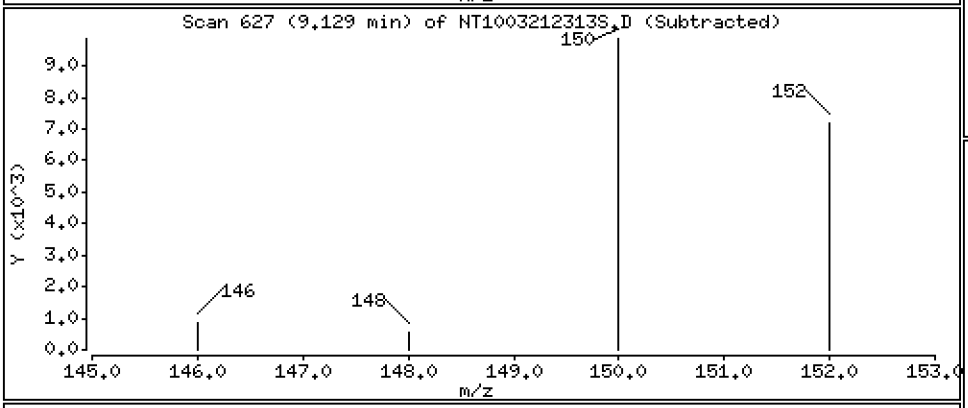
Column diameter: 0.25

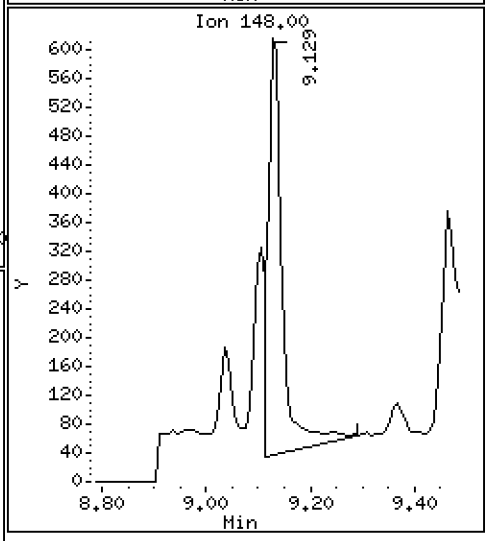
9 1,4-Dichlorobenzene

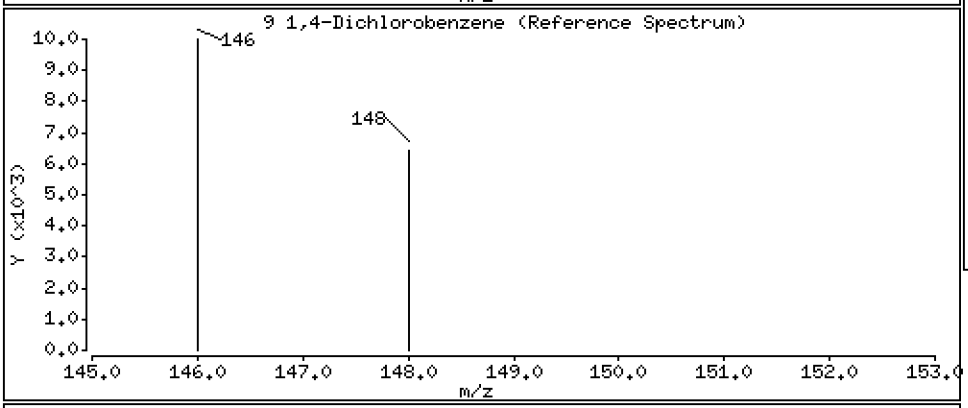
Concentration: 0.01548 ug/L

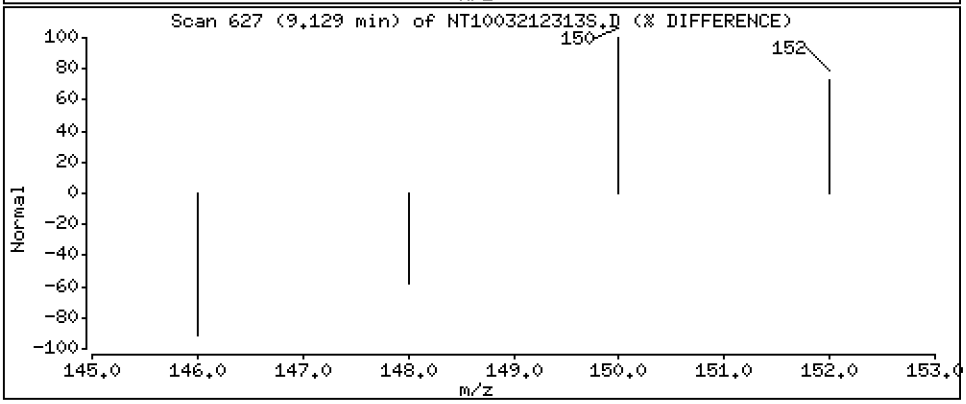












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Date : 22-MAR-2023 00:52

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-04

Volume Injected (uL): 1.0

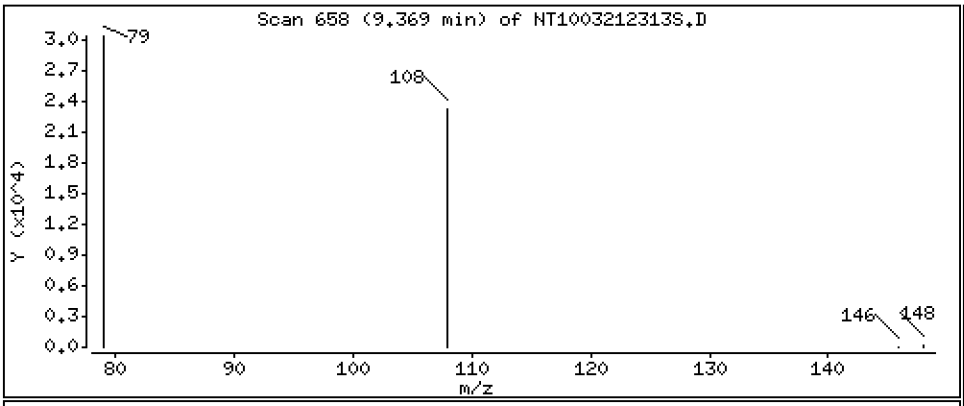
Operator: JGR

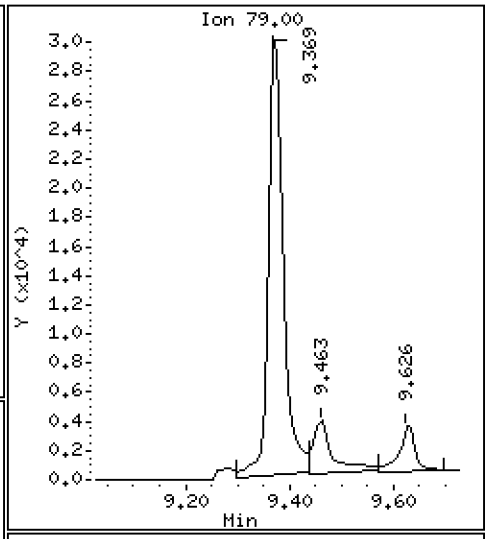
Column phase: ZB-5msi

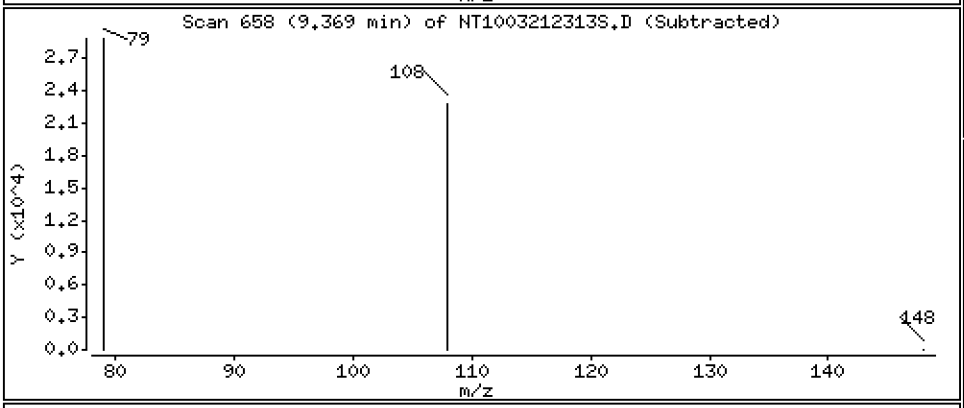
Column diameter: 0.25

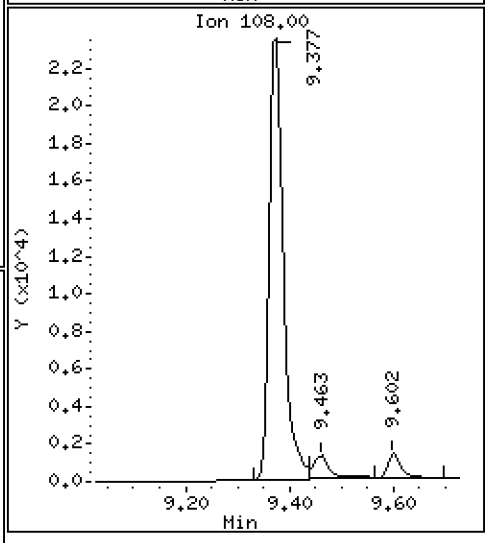
11 Benzyl alcohol

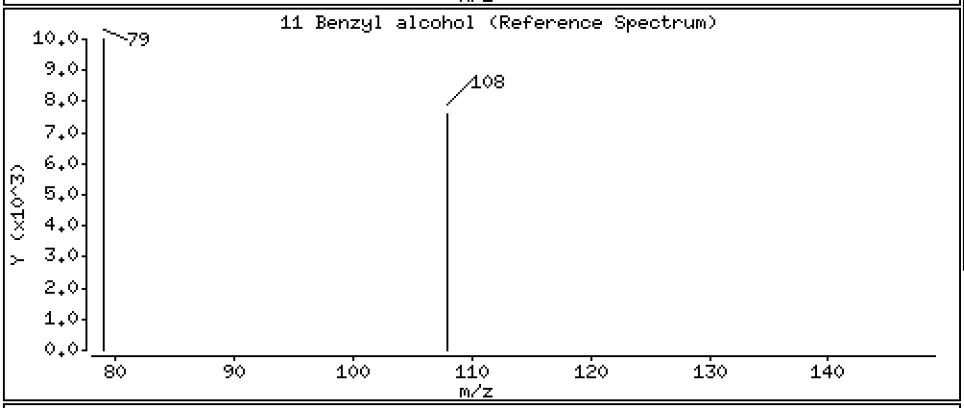
Concentration: 1.069 ug/L

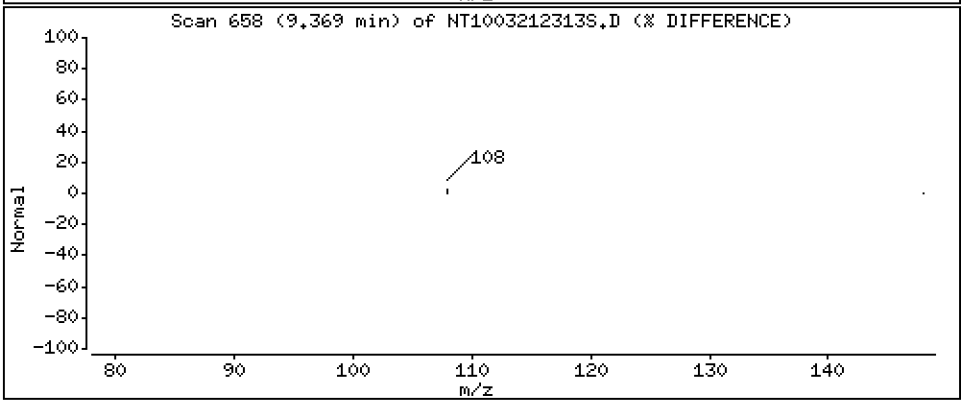












Date : 22-MAR-2023 00:52

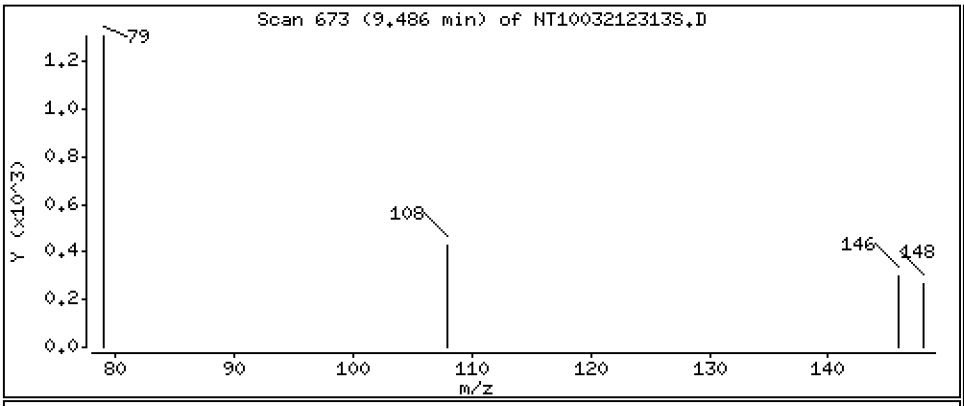
Client ID: Instrument: nt10.i

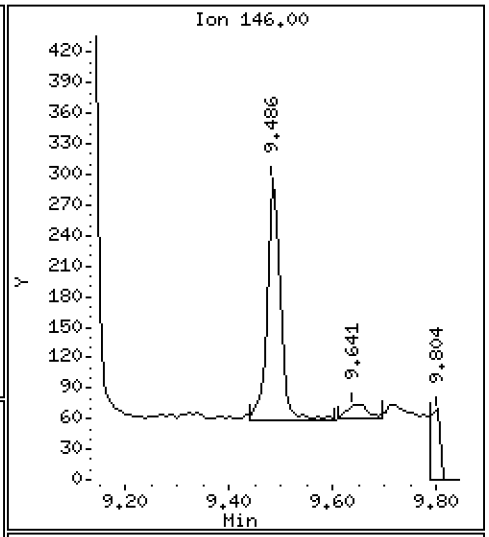
Sample Info: 23C0071-04

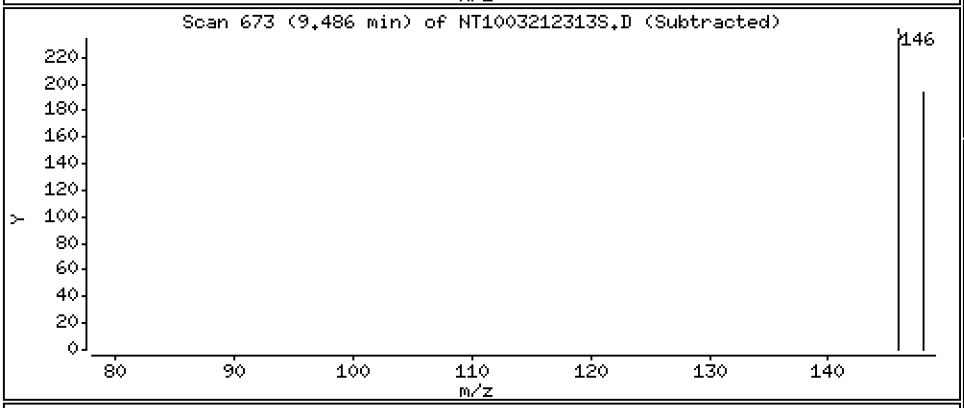
Volume Injected (uL): 1.0 Operator: JGR

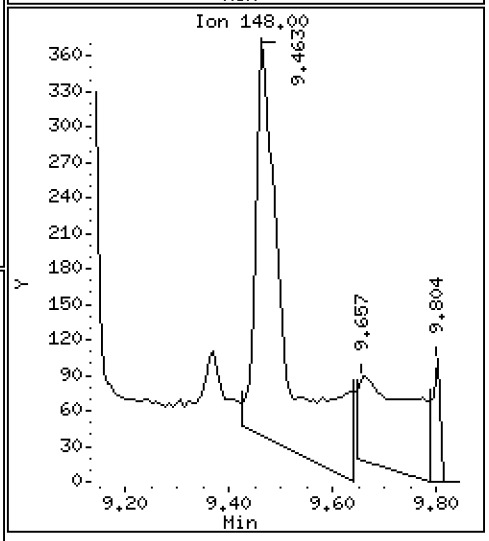
Column phase: ZB-5msi Column diameter: 0.25

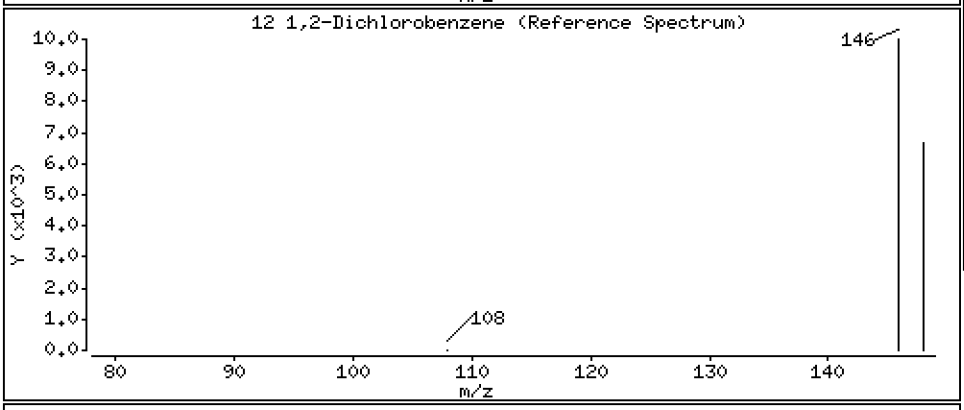
12 1,2-Dichlorobenzene Concentration: 0.004801 ug/L

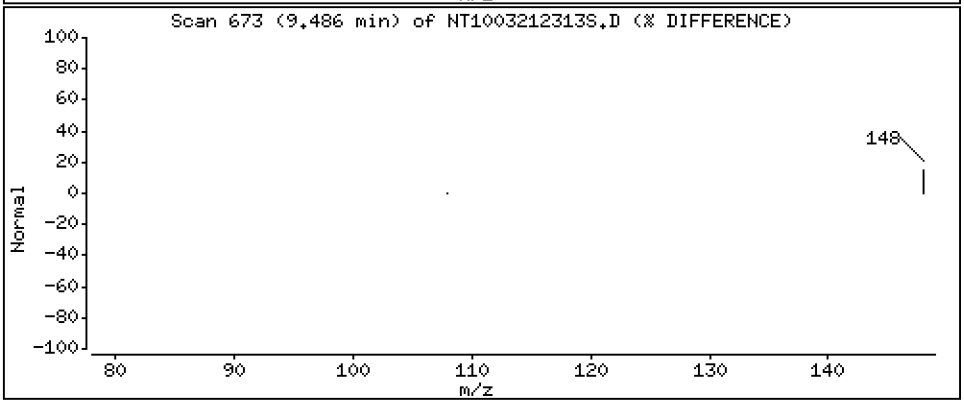












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212313S.D

Date : 22-MAR-2023 00:52

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-04

Volume Injected (uL): 1.0

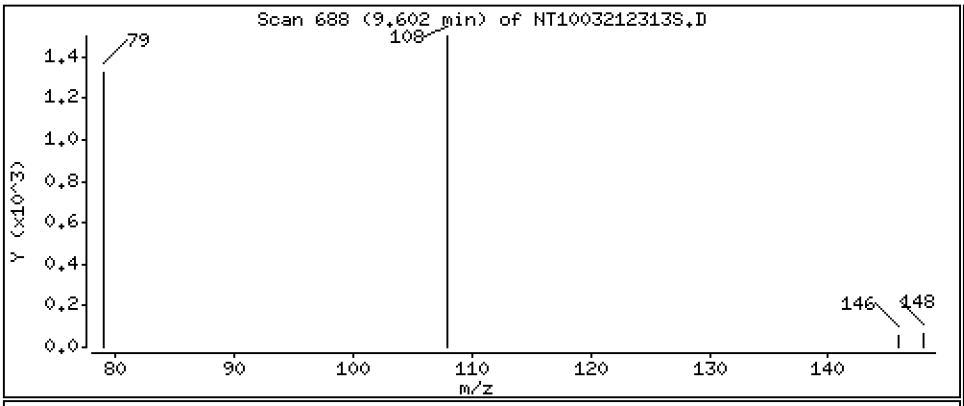
Operator: JGR

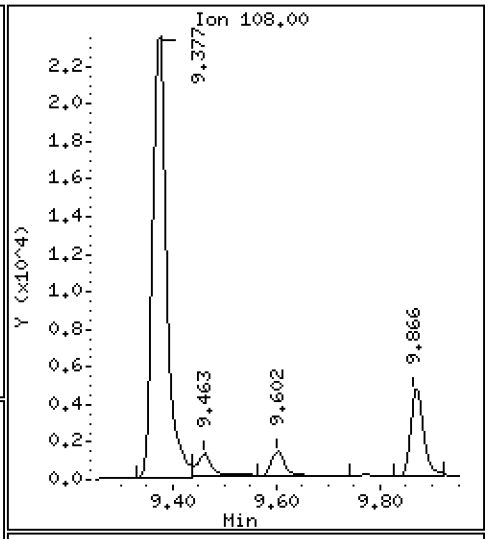
Column phase: ZB-5msi

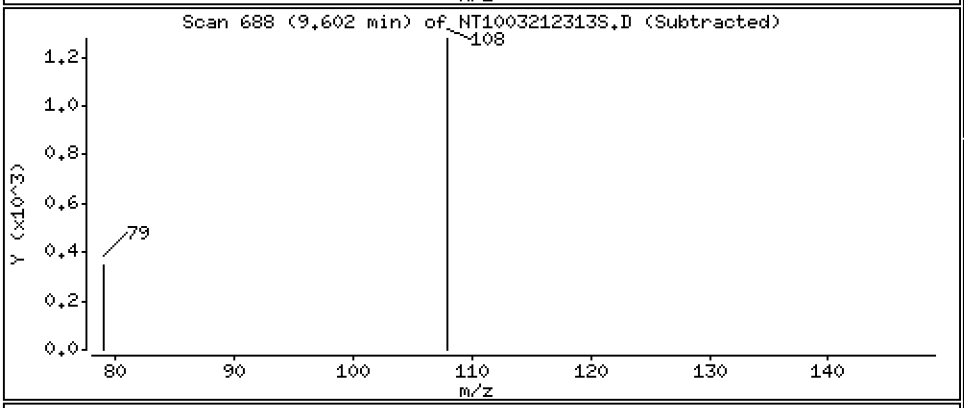
Column diameter: 0.25

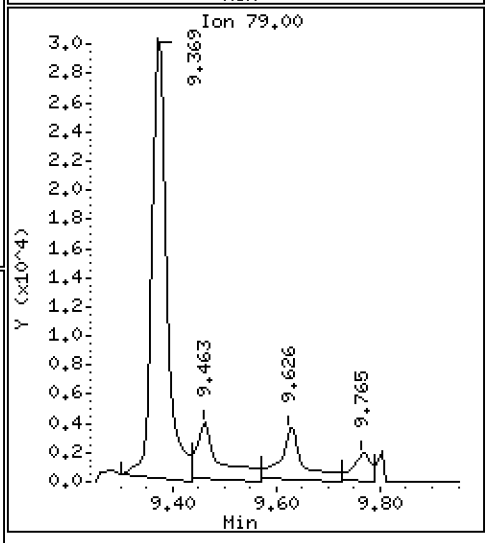
13 2-Methylphenol

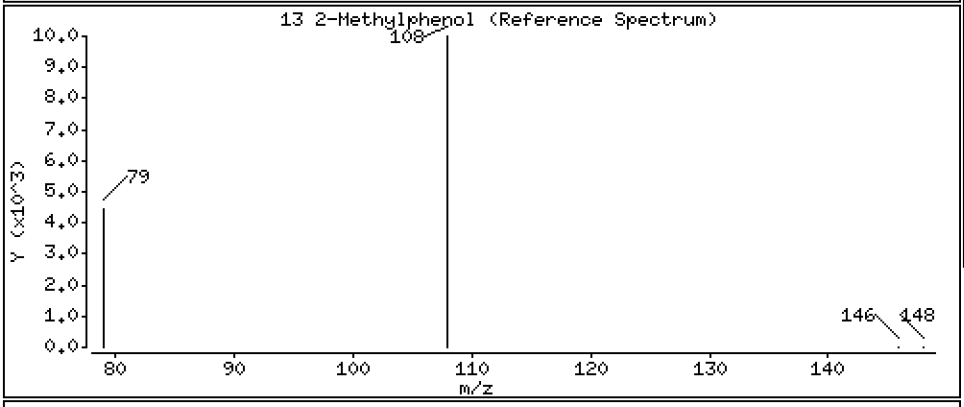
Concentration: 0.03986 ug/L

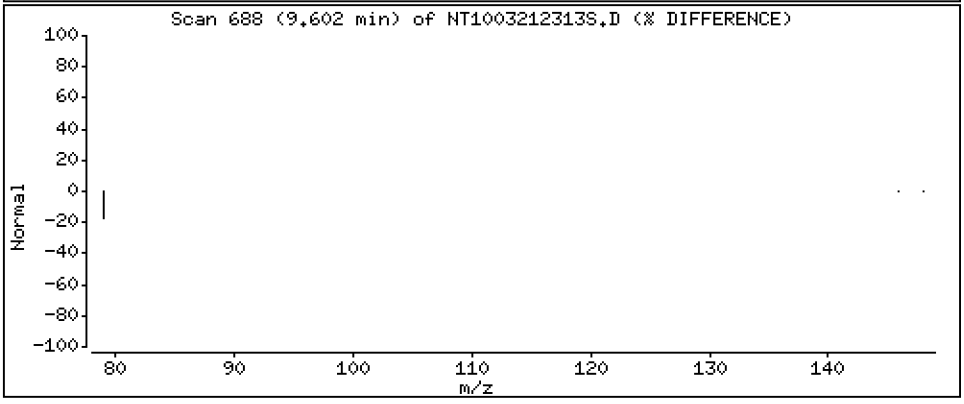












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212313S.D

Date : 22-MAR-2023 00:52

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-04

Volume Injected (uL): 1.0

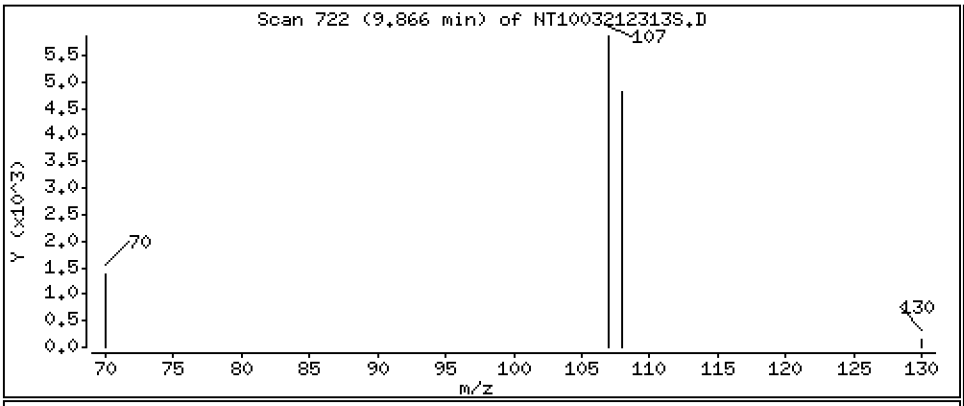
Operator: JGR

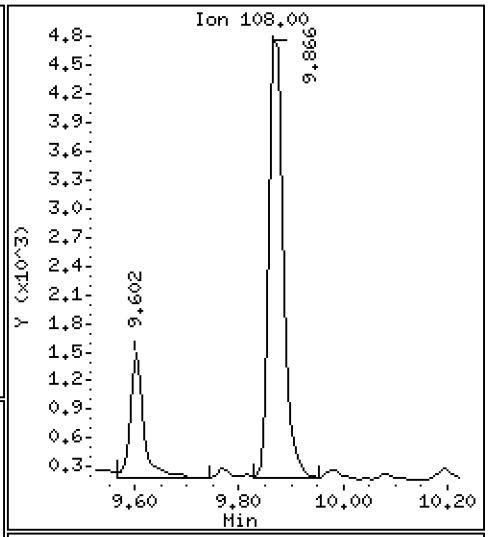
Column phase: ZB-5msi

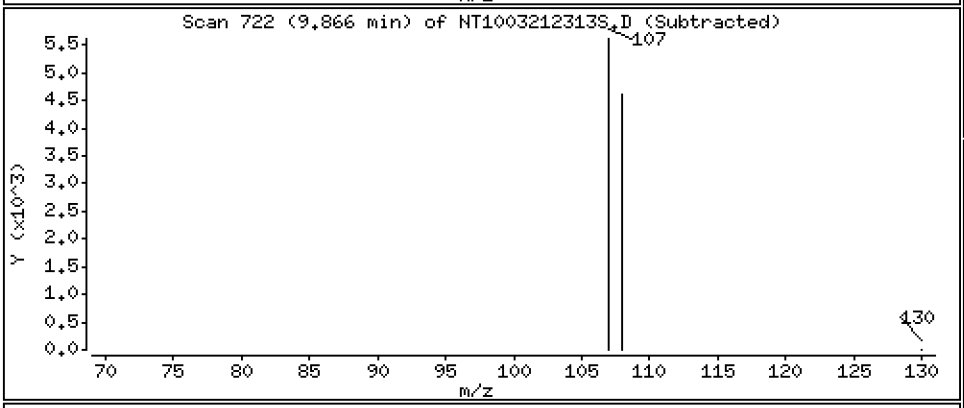
Column diameter: 0.25

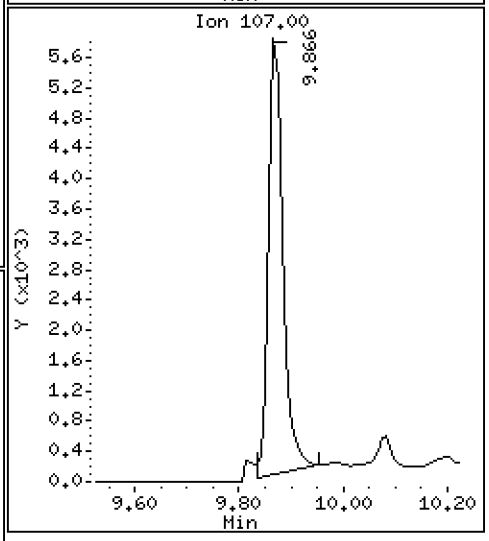
15 4-Methylphenol

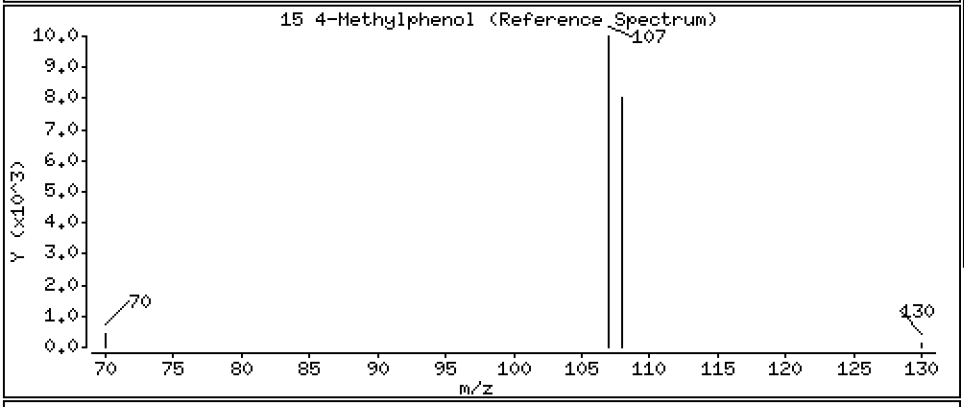
Concentration: 0.1248 ug/L

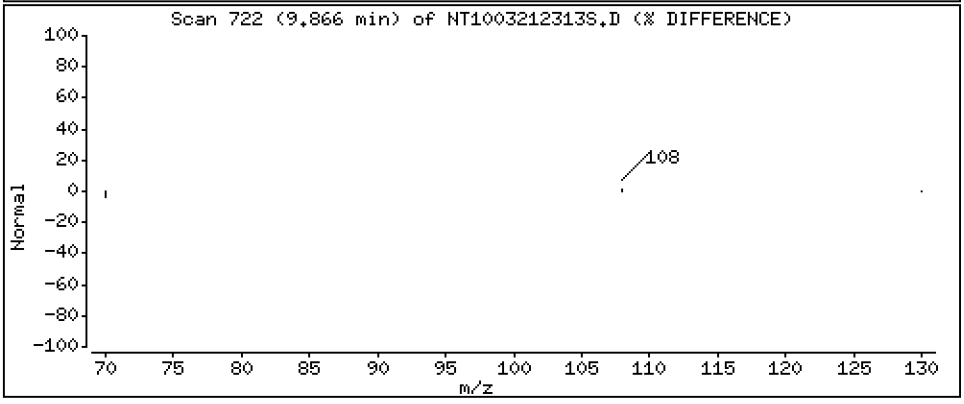












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Date : 22-MAR-2023 00:52

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-04

Volume Injected (uL): 1.0

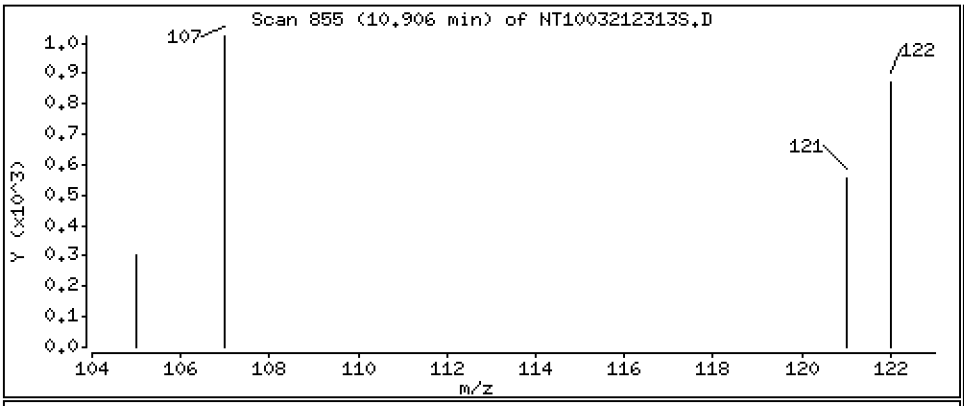
Operator: JGR

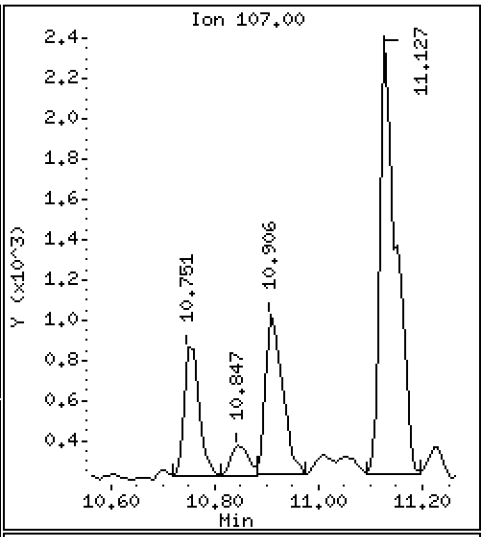
Column phase: ZB-5msi

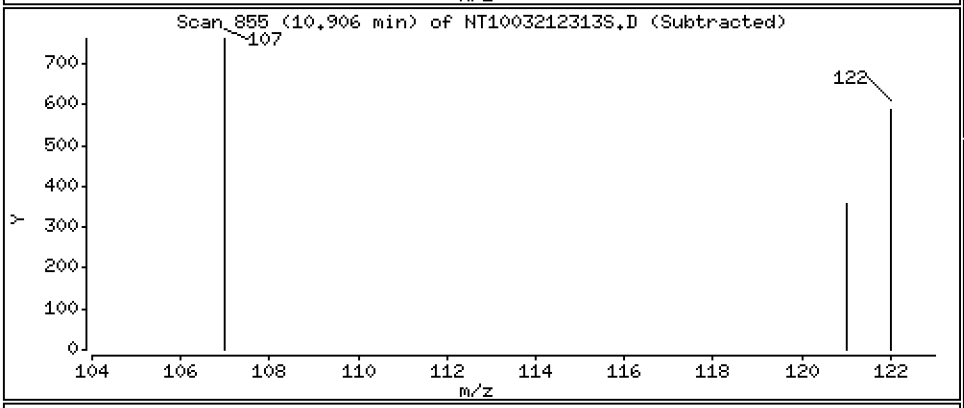
Column diameter: 0.25

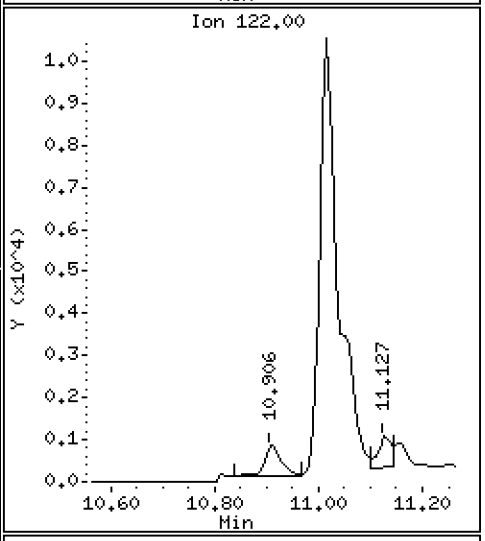
22 2,4-Dimethylphenol

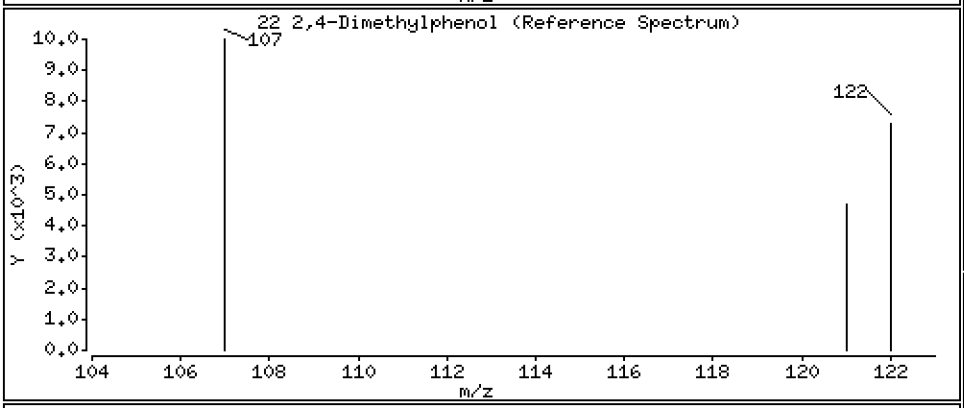
Concentration: 0.02639 ug/L

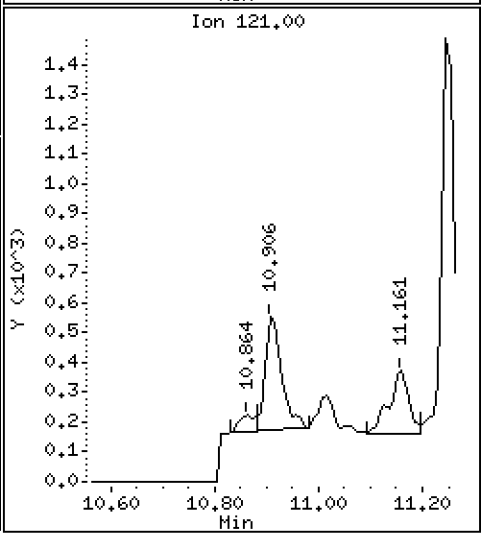


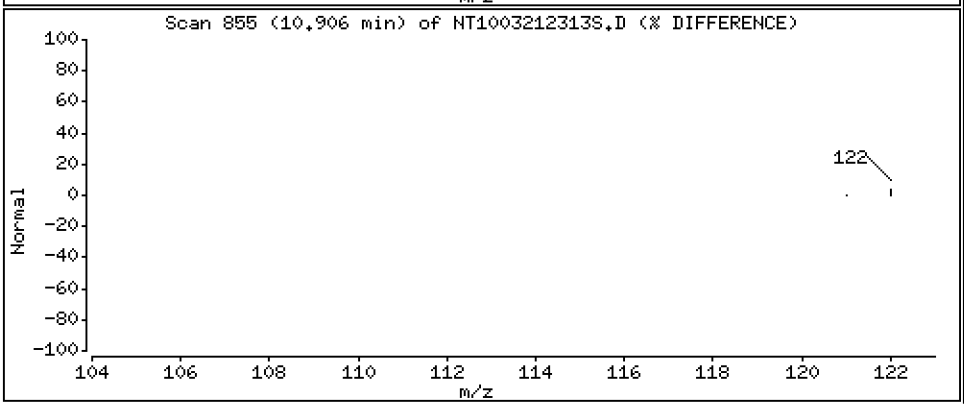












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Date : 22-MAR-2023 00:52

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-04

Volume Injected (uL): 1.0

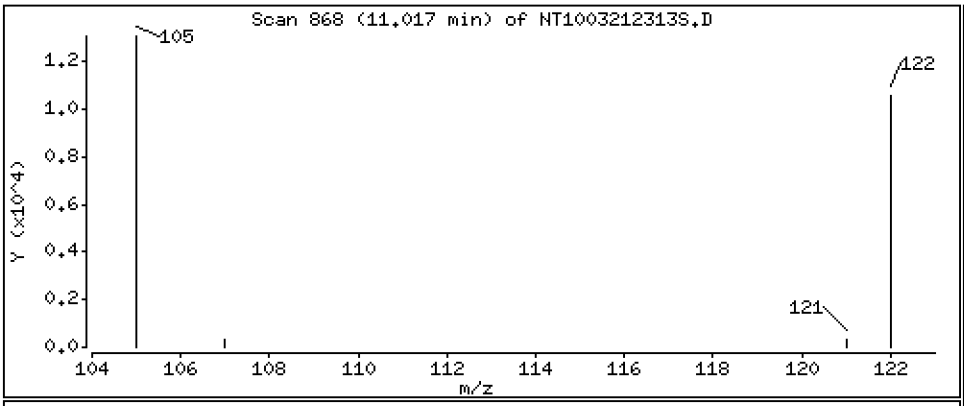
Operator: JGR

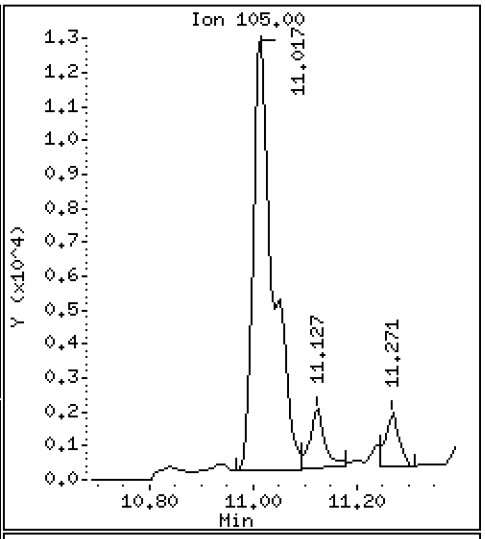
Column phase: ZB-5msi

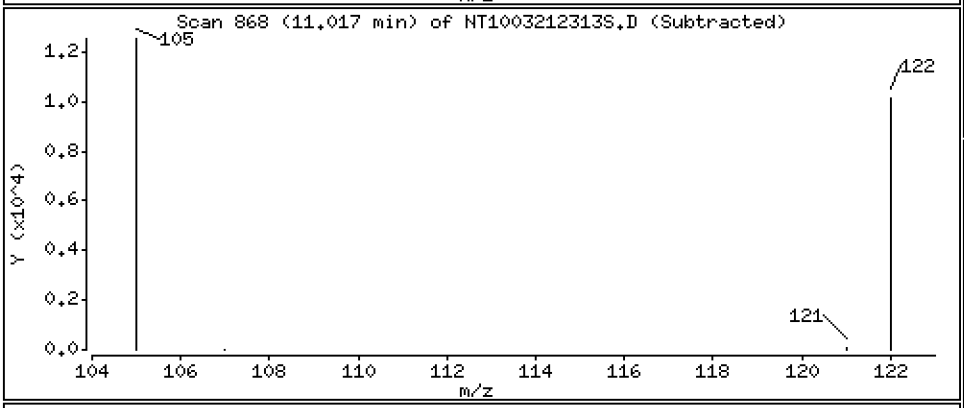
Column diameter: 0.25

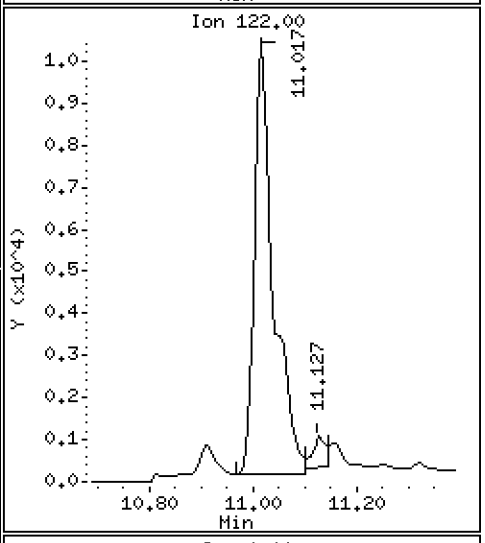
24 Benzoic acid

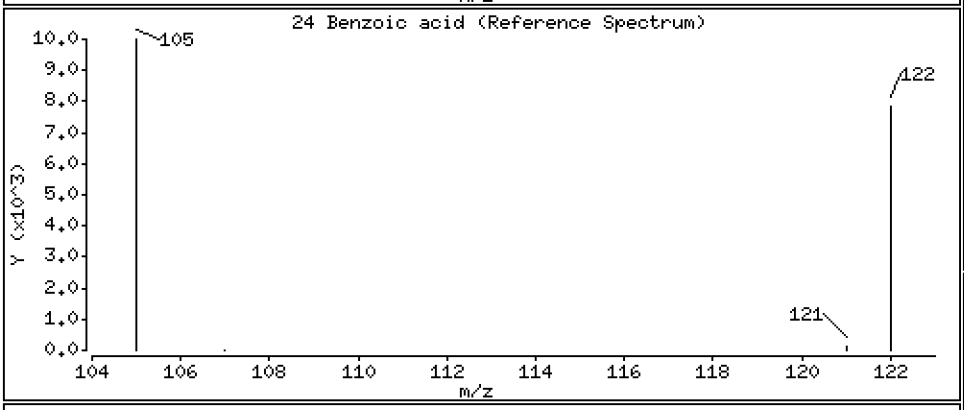
Concentration: 0.9003 ug/L

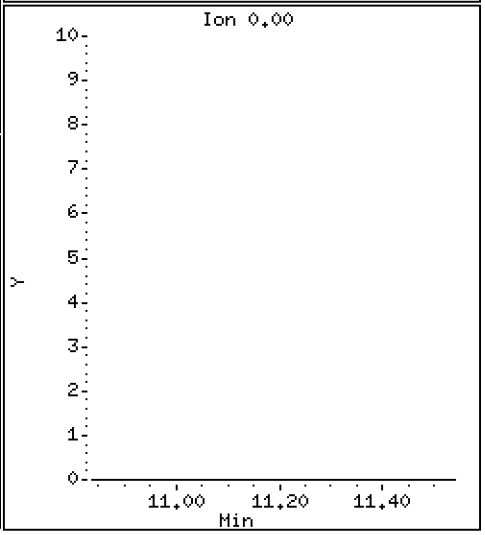


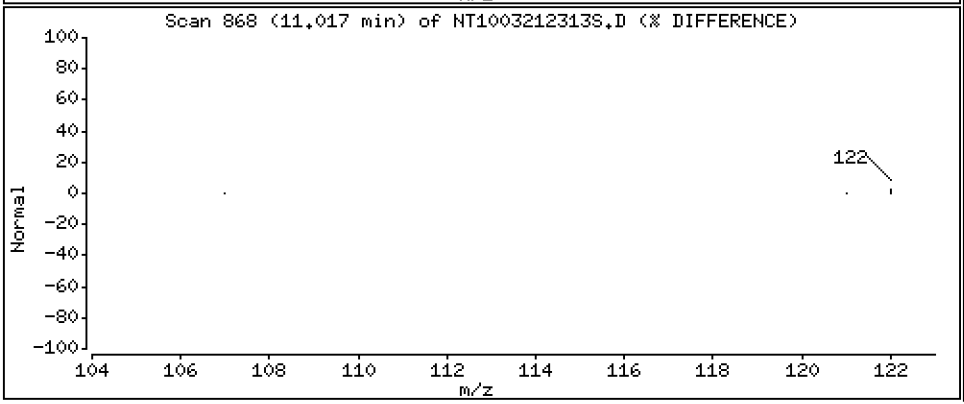












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Date : 22-MAR-2023 00:52

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-04

Volume Injected (uL): 1.0

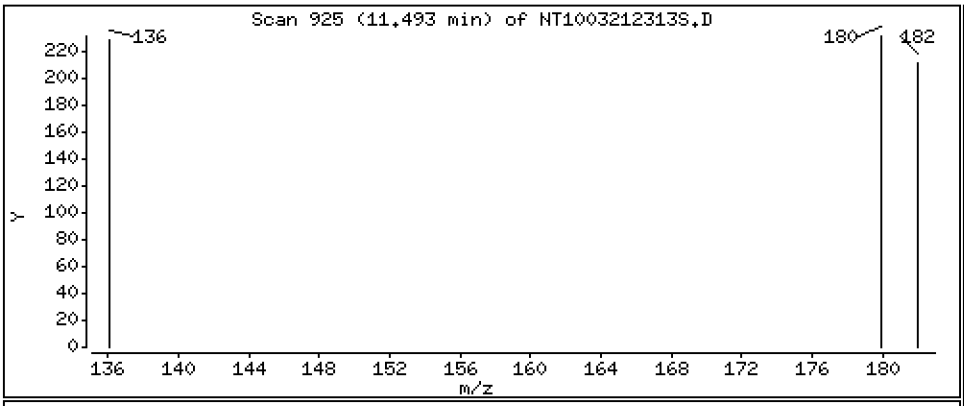
Operator: JGR

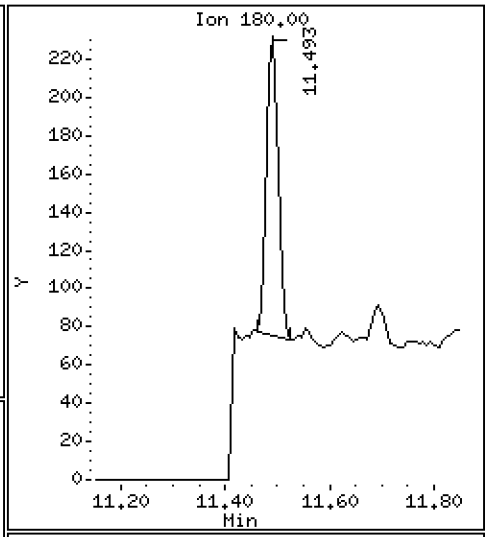
Column phase: ZB-5msi

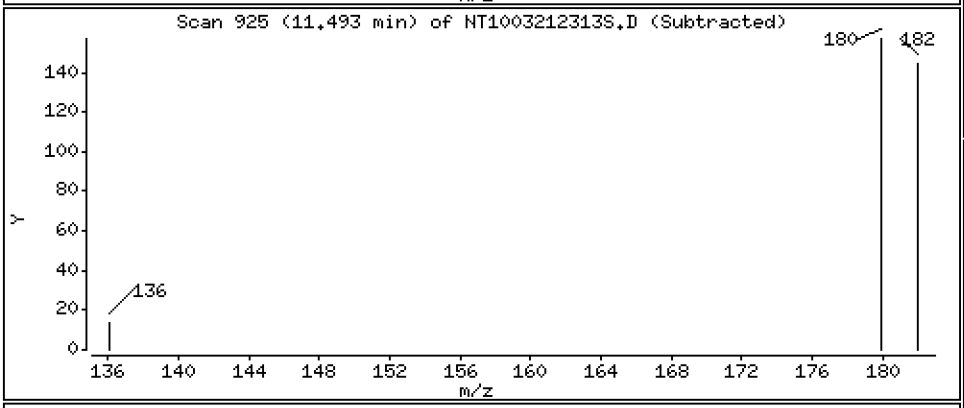
Column diameter: 0.25

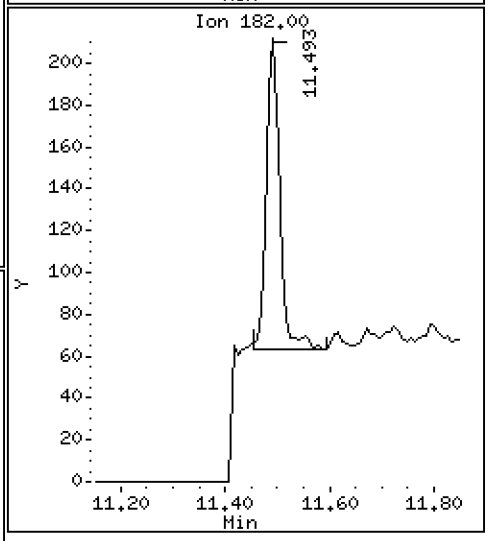
26 1,2,4-Trichlorobenzene

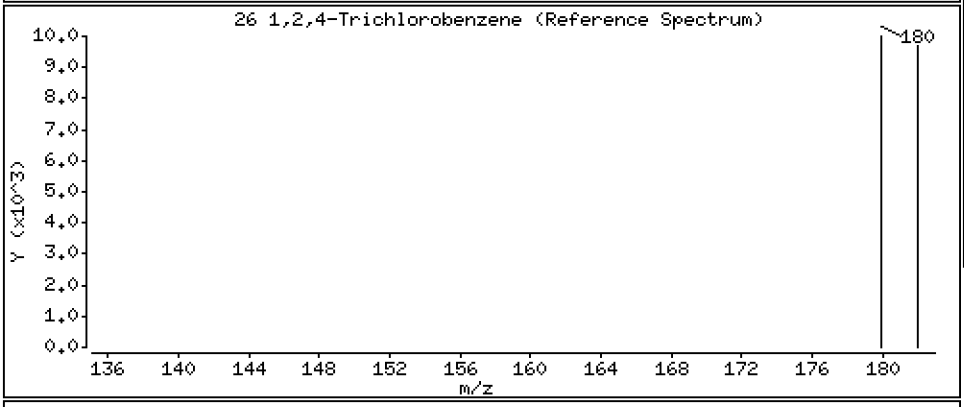
Concentration: 0.003327 ug/L

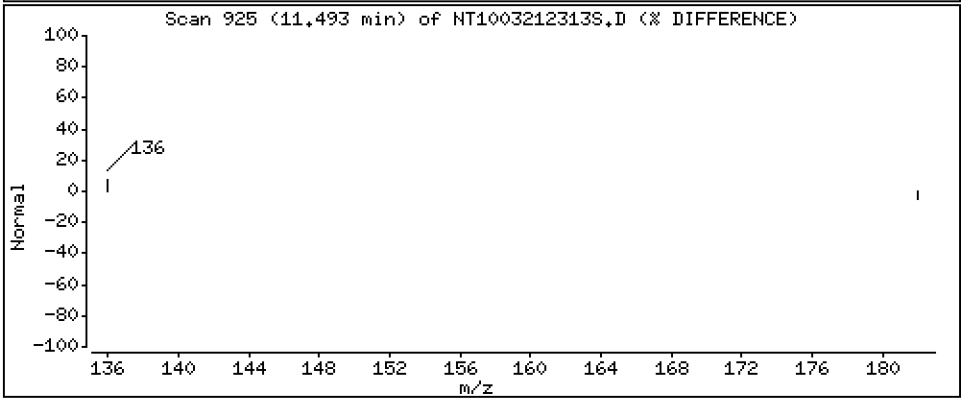












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212313S.D

Date : 22-MAR-2023 00:52

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-04

Volume Injected (uL): 1.0

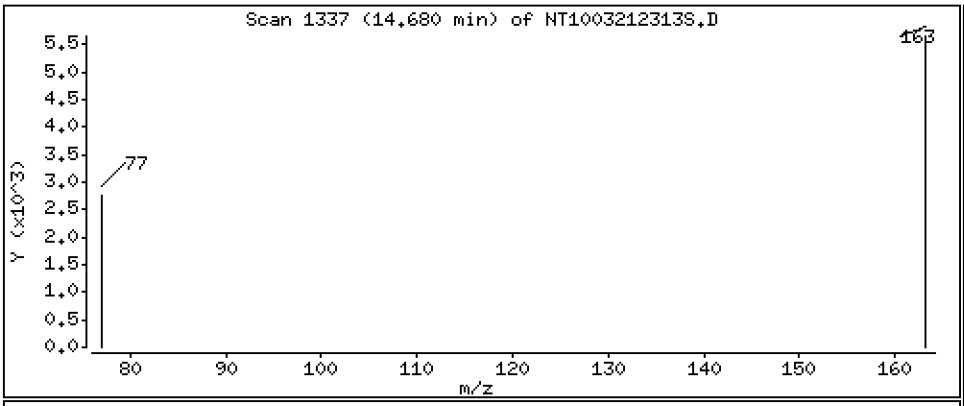
Operator: JGR

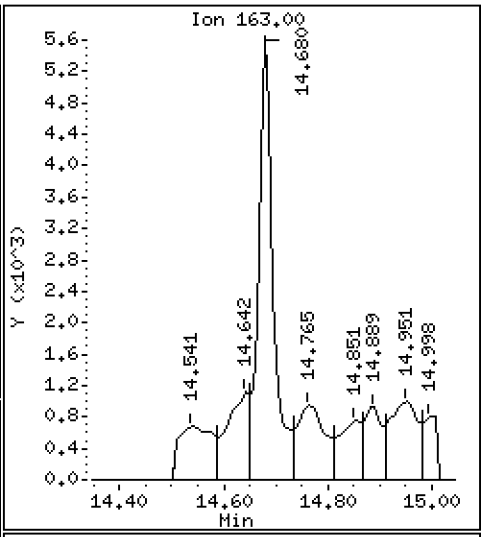
Column phase: ZB-5msi

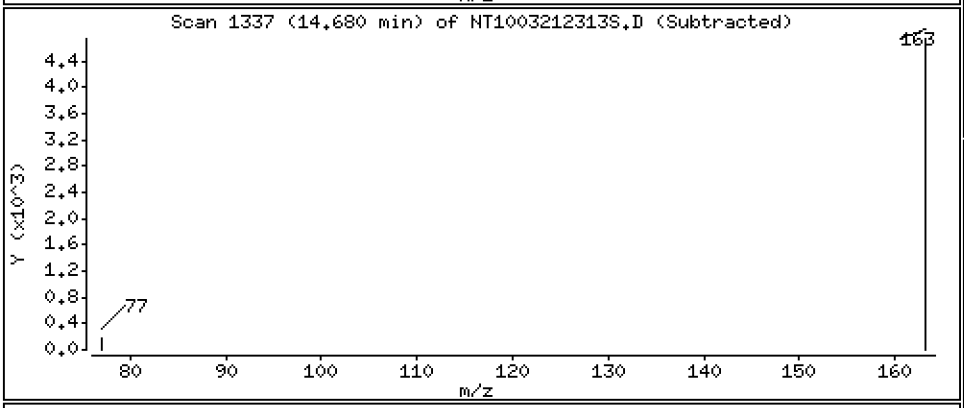
Column diameter: 0.25

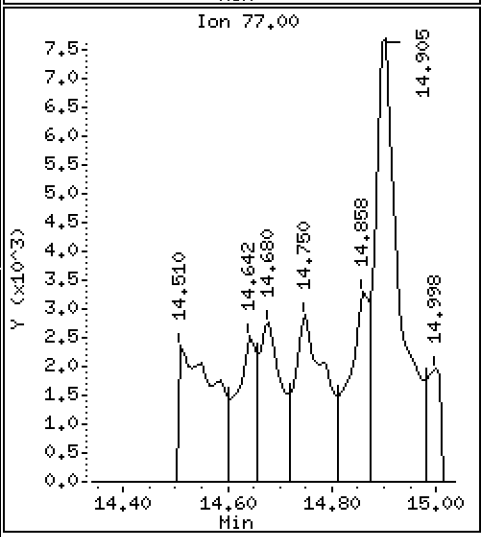
39 Dimethylphthalate

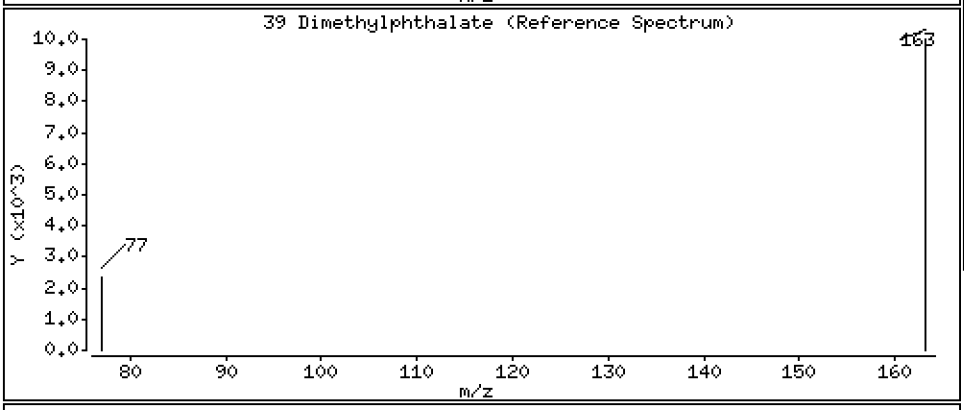
Concentration: 0.09387 ug/L

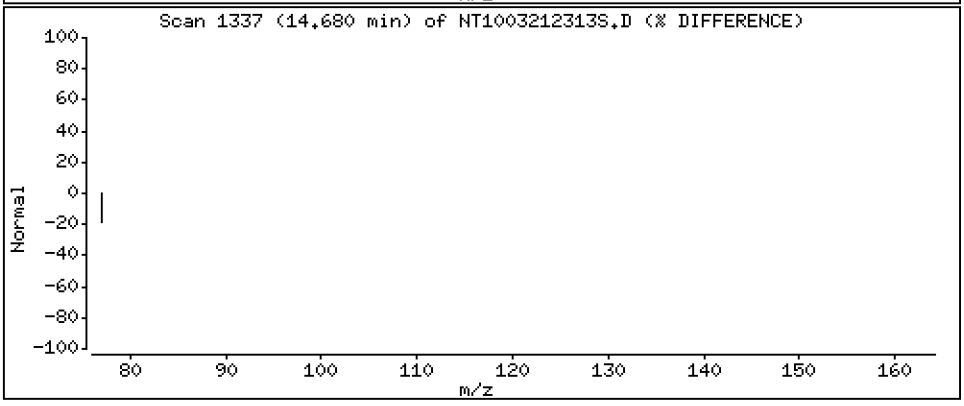












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212313S.D

Date : 22-MAR-2023 00:52

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-04

Volume Injected (uL): 1.0

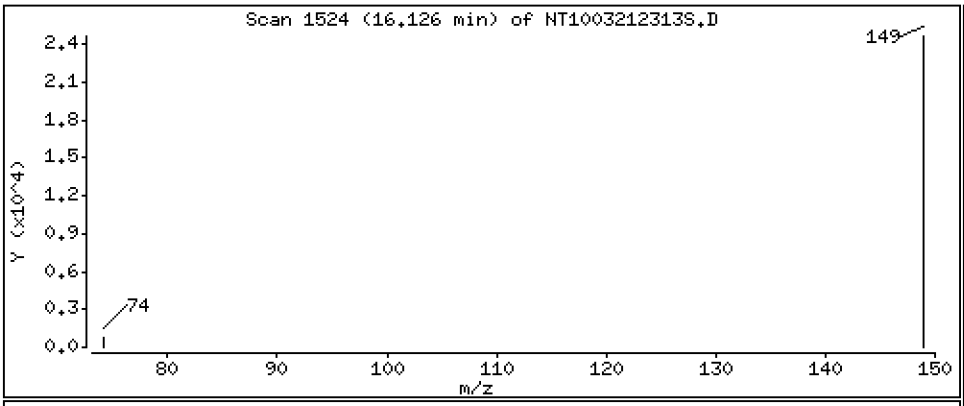
Operator: JGR

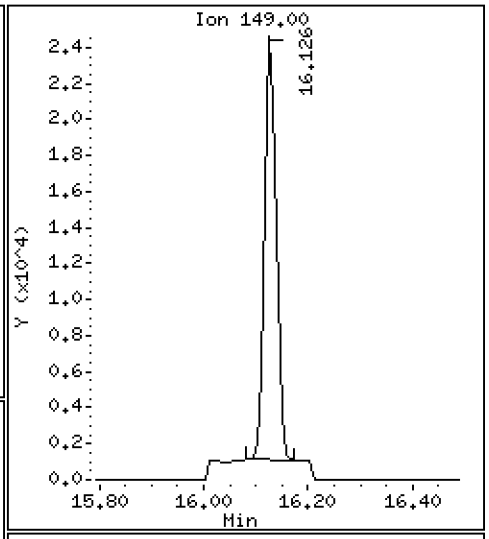
Column phase: ZB-5msi

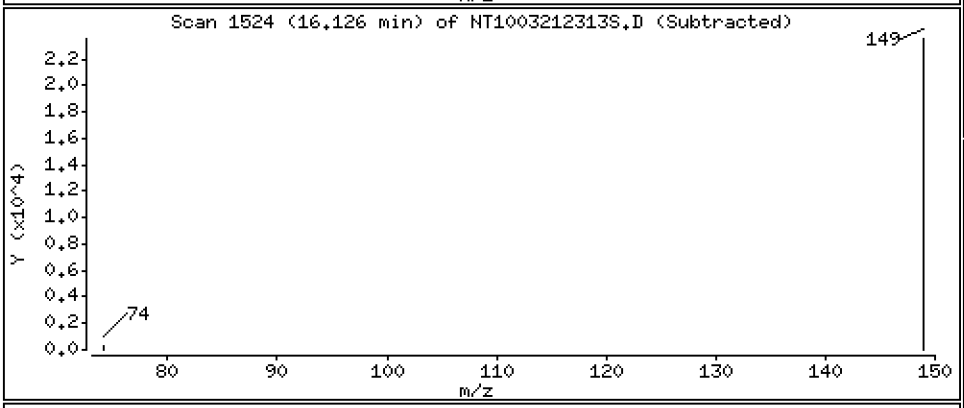
Column diameter: 0.25

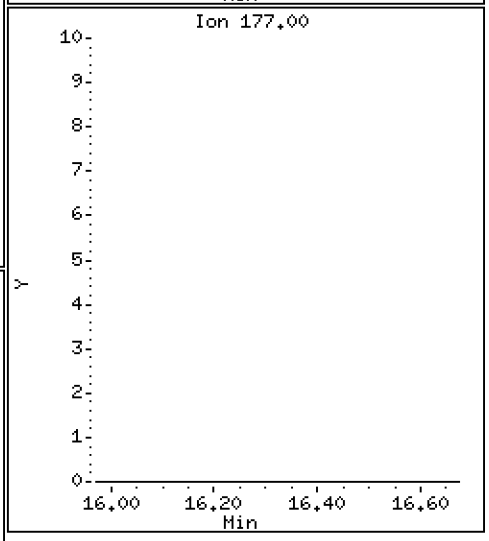
50 Diethylphthalate

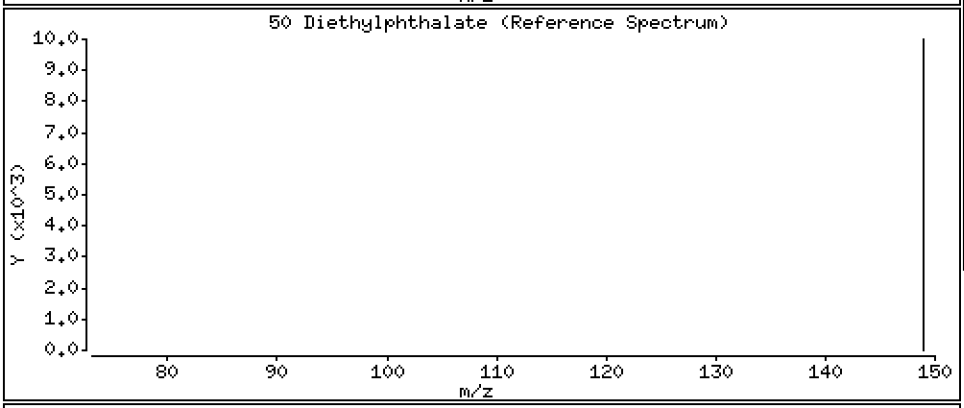
Concentration: 0.2775 ug/L

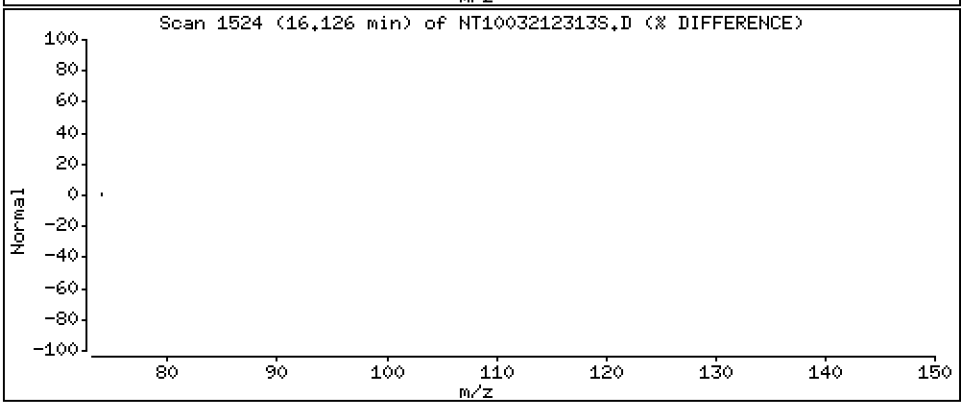












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212313S.D

Date : 22-MAR-2023 00:52

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-04

Volume Injected (uL): 1.0

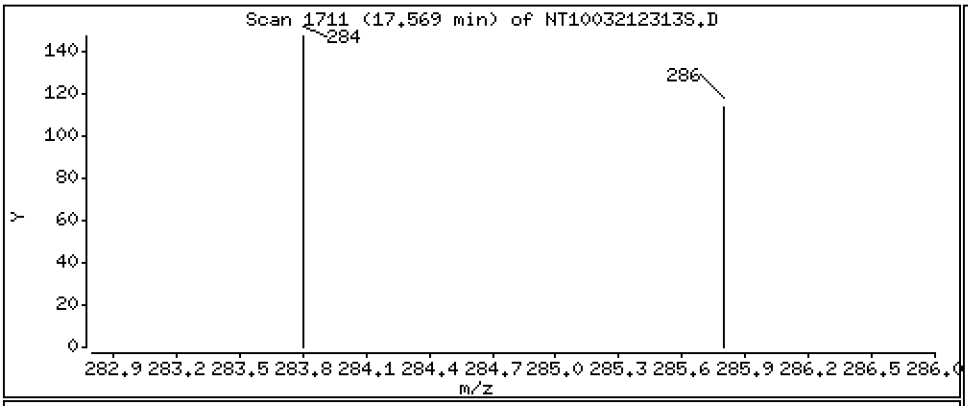
Operator: JGR

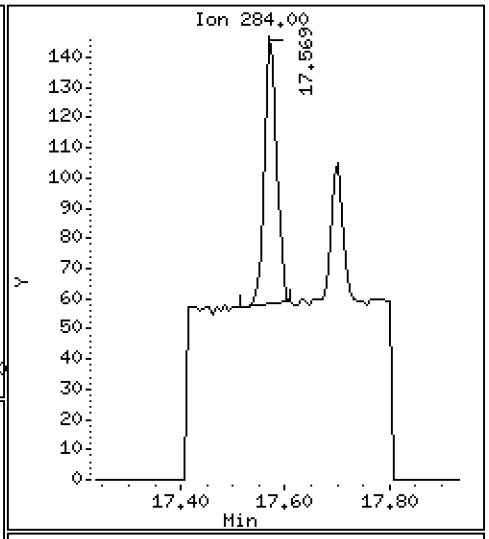
Column phase: ZB-5msi

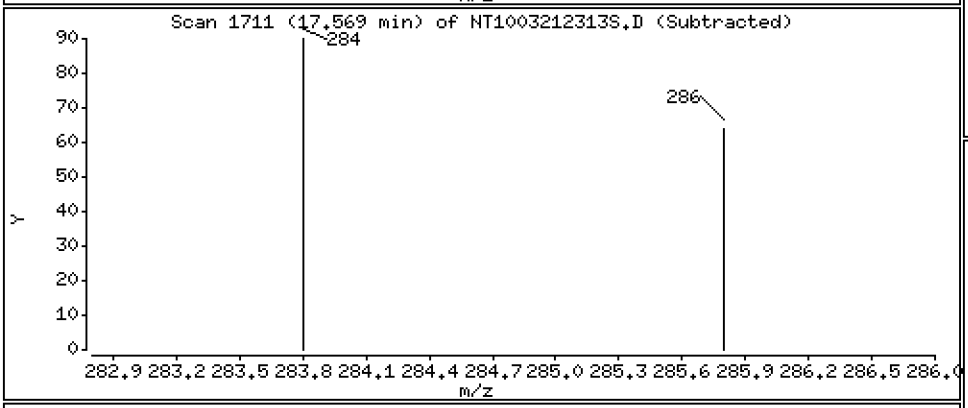
Column diameter: 0.25

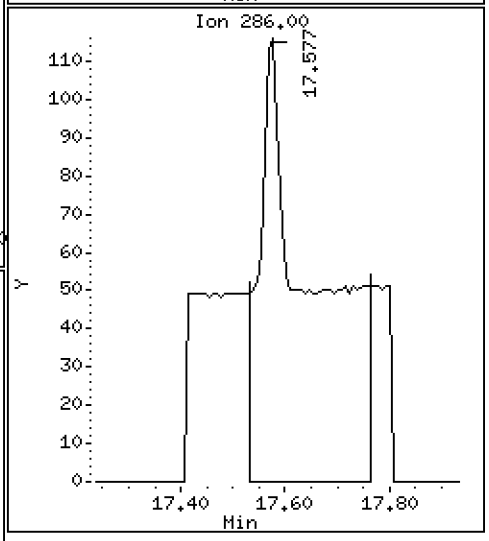
57 Hexachlorobenzene

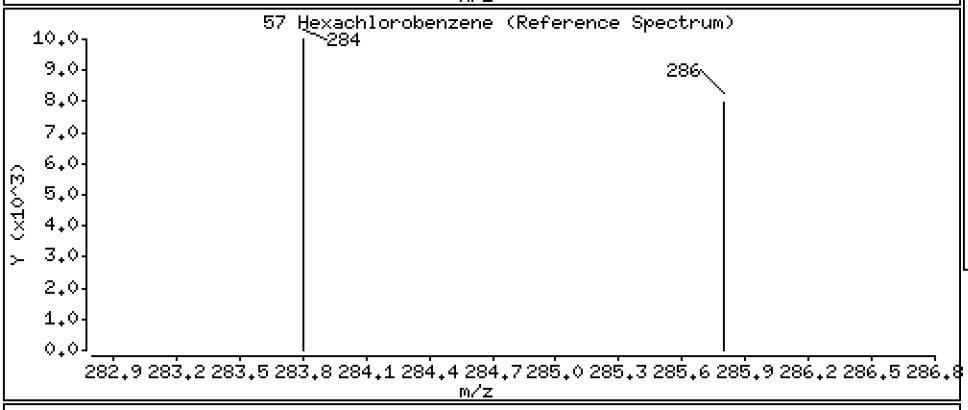
Concentration: 0.003001 ug/L

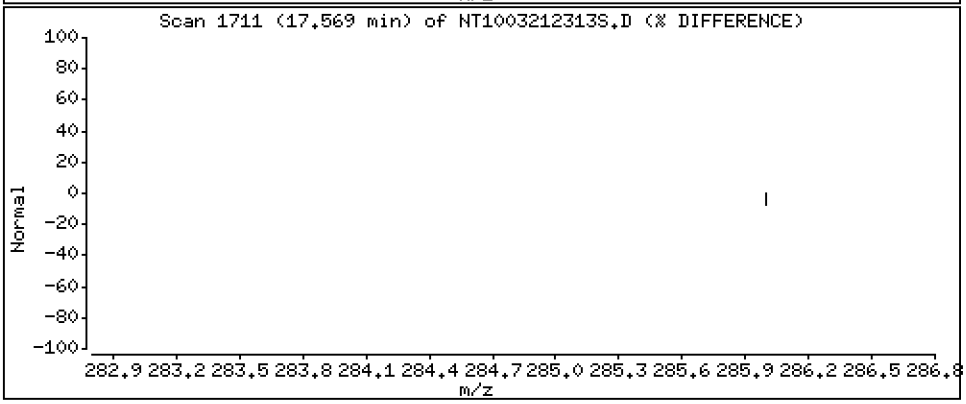












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212313S.D

Date : 22-MAR-2023 00:52

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-04

Volume Injected (uL): 1.0

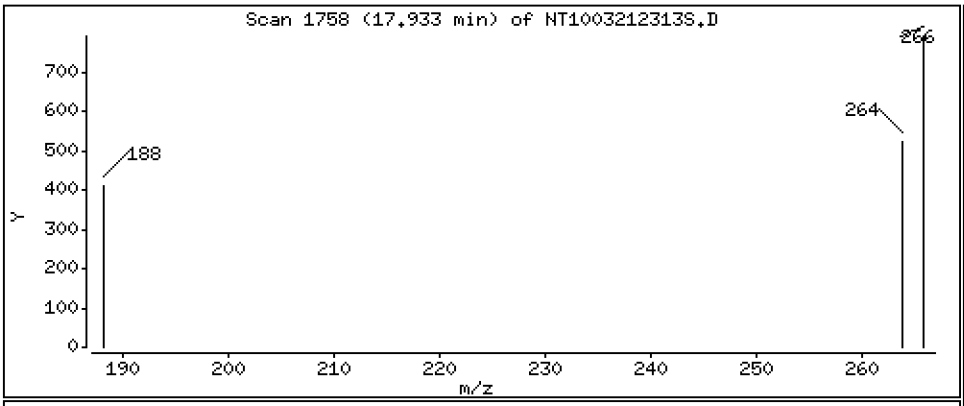
Operator: JGR

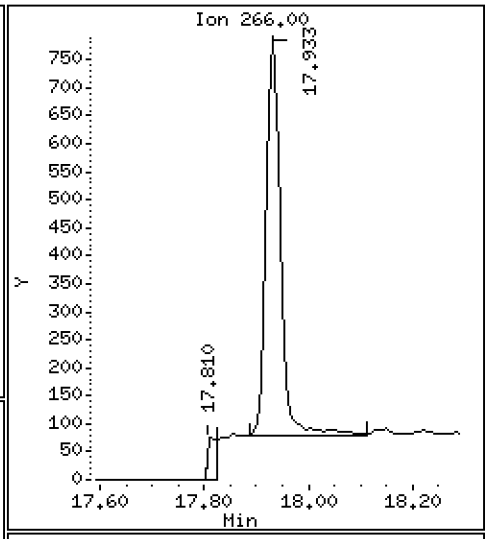
Column phase: ZB-5msi

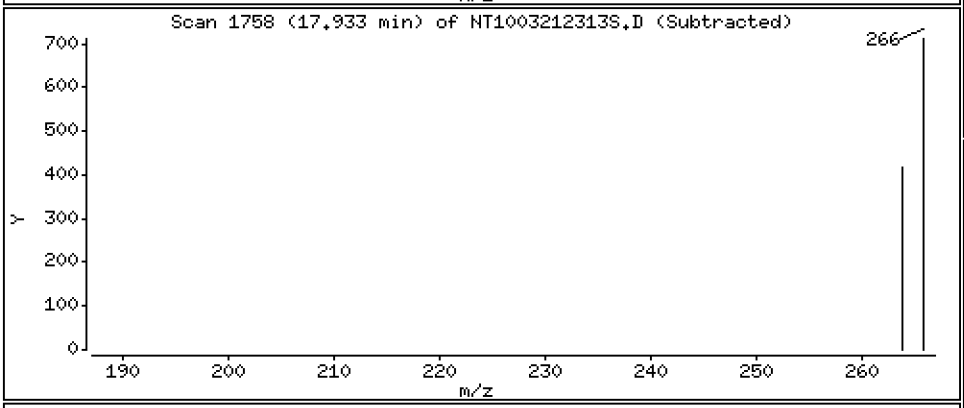
Column diameter: 0.25

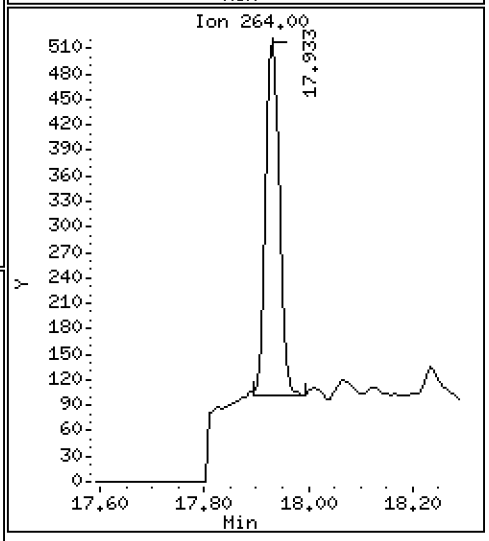
58 Pentachlorophenol

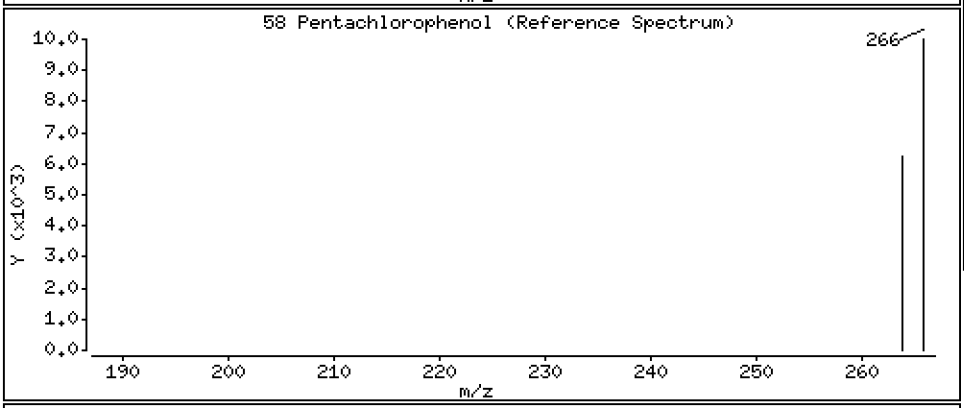
Concentration: 0.04911 ug/L

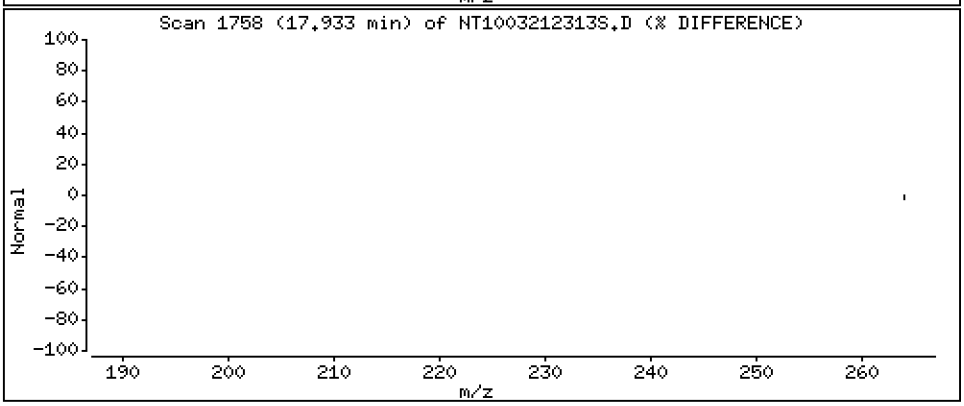












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212313S.D

Date : 22-MAR-2023 00:52

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-04

Volume Injected (uL): 1.0

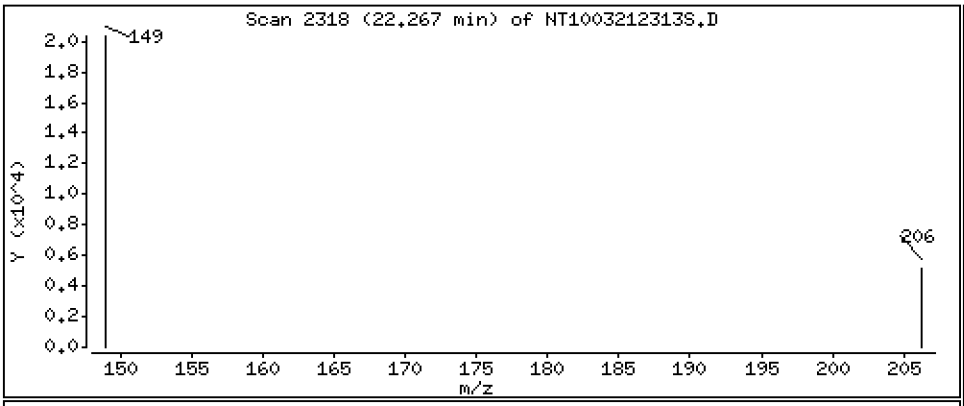
Operator: JGR

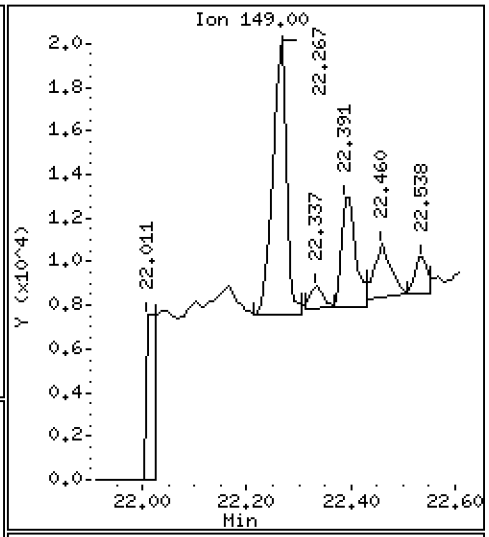
Column phase: ZB-5msi

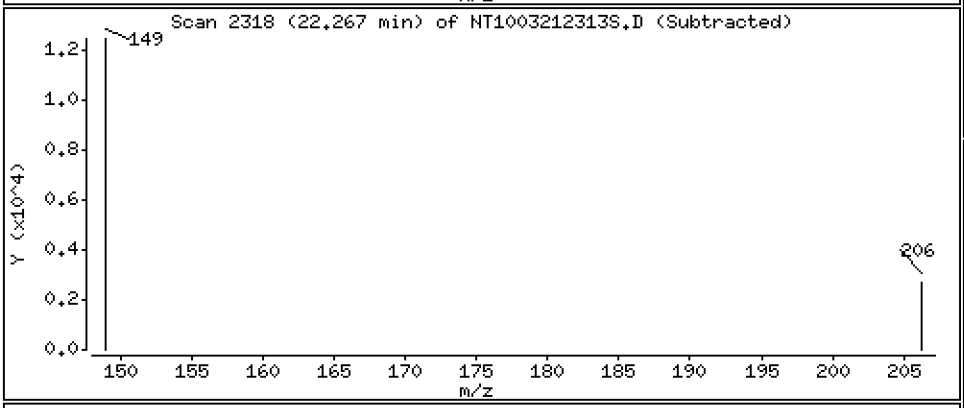
Column diameter: 0.25

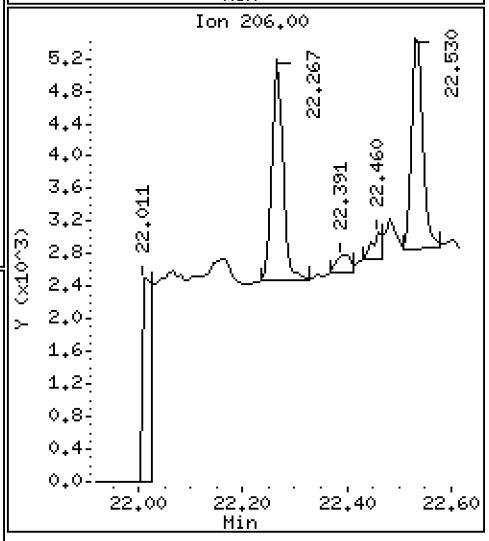
67 Butylbenzylphthalate

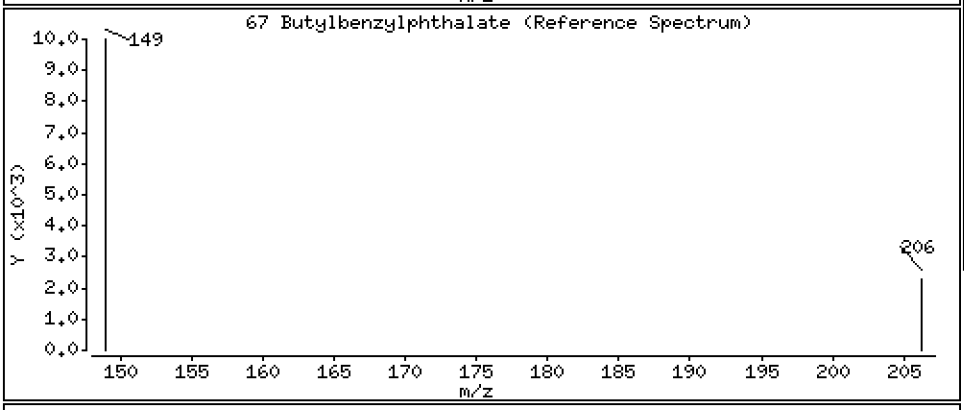
Concentration: 0.2238 ug/L

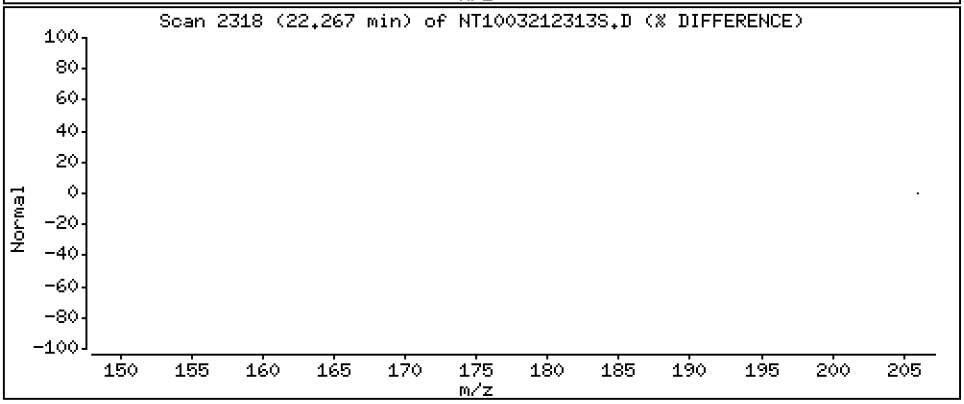












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212313S.D

Date : 22-MAR-2023 00:52

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-04

Volume Injected (uL): 1.0

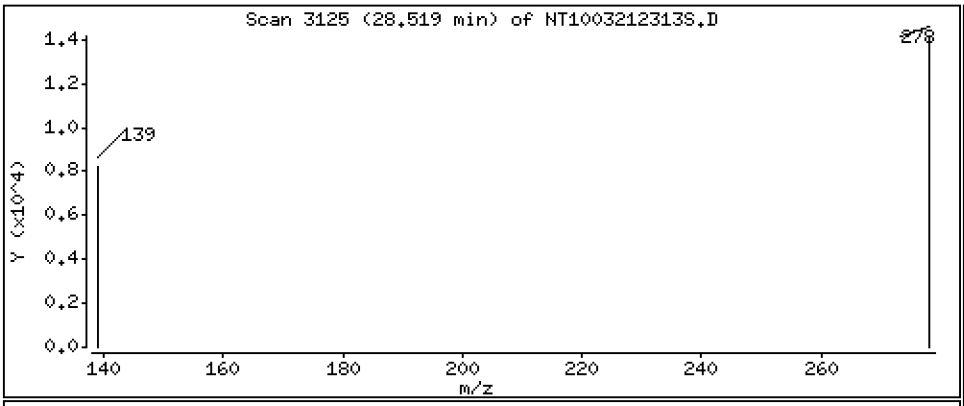
Operator: JGR

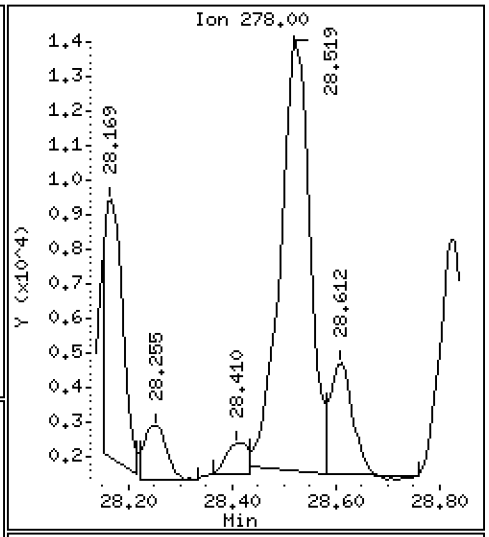
Column phase: ZB-5msi

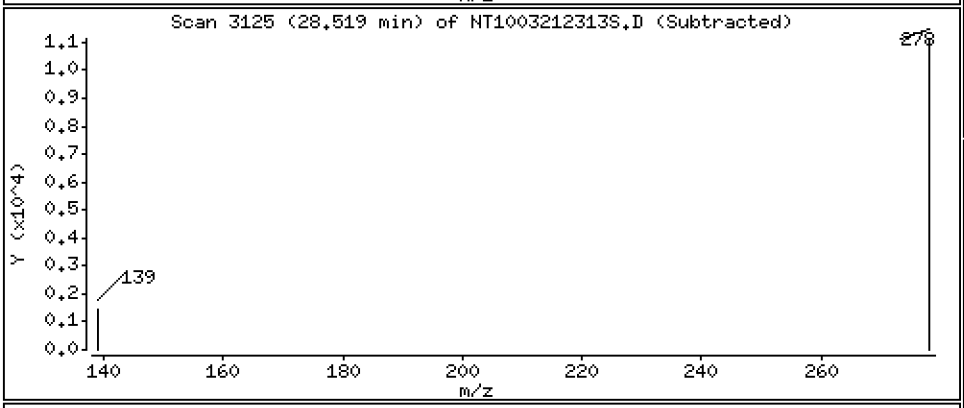
Column diameter: 0.25

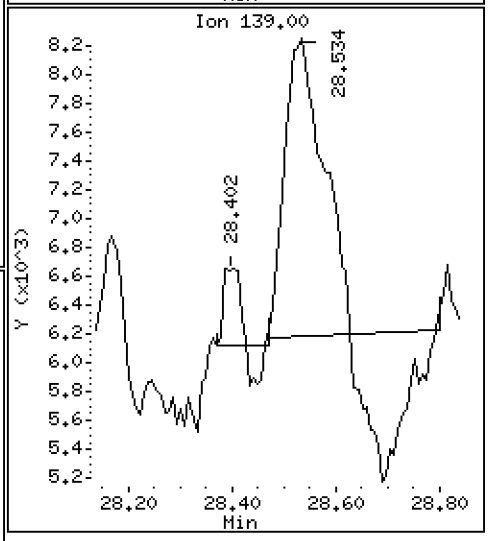
79 Dibenzo(a,h)anthracene

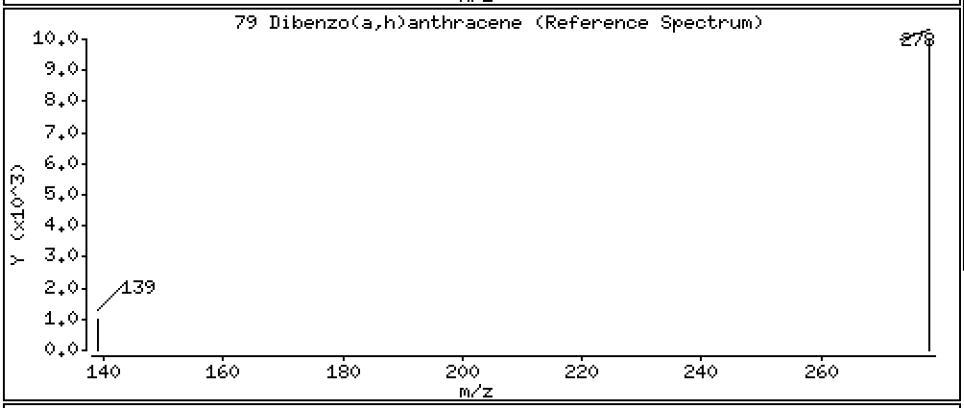
Concentration: 0.1770 ug/L

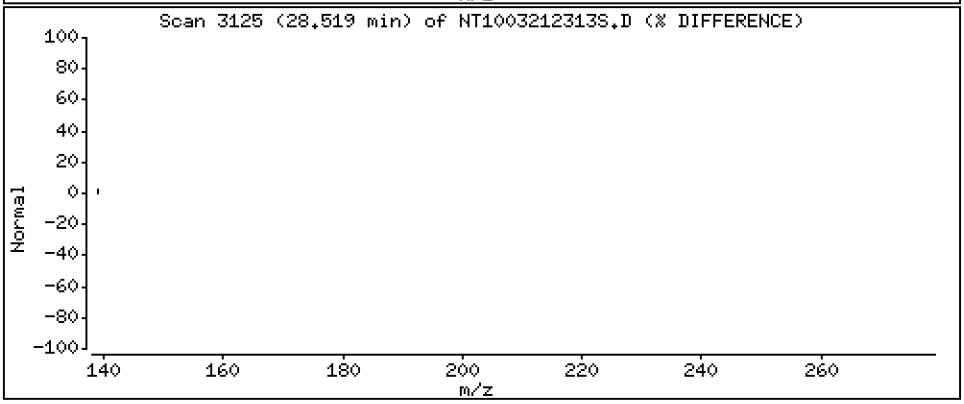












ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212313S.D
Lab Smp Id: 23C0071-04
Inj Date : 22-MAR-2023 00:52 MS Autotune Date: 16-JAN-2023 17:42
Operator : JGR Inst ID: nt10.i
Smp Info : 23C0071-04
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230321.b\20230321.b\SIMABN2.m
Meth Date : 29-Mar-2023 09:55 van Quant Type: ISTD
Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
$ 1	2-Fluorophenol	112	6.895	6.895	(0.757)	340644	4.98337	4.983(R)
3	Phenol	94	8.494	8.494	(0.933)	16468	0.17560	0.1756
7	1,3-Dichlorobenzene	146	9.035	9.043	(0.992)	356	0.00406	0.004057
* 8	1,4-Dichlorobenzene-d4	152	9.105	9.105	(1.000)	225415	4.00000	
9	1,4-Dichlorobenzene	146	9.128	9.136	(1.003)	1311	0.01548	0.01548(M)
11	Benzyl alcohol	79	9.369	9.377	(1.029)	58122	1.06905	1.069
12	1,2-Dichlorobenzene	146	9.485	9.493	(1.042)	400	0.00480	0.004801
13	2-Methylphenol	108	9.602	9.602	(1.055)	2590	0.03986	0.03986
15	4-Methylphenol	108	9.866	9.874	(1.084)	8426	0.12479	0.1248
16	N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
22	2,4-Dimethylphenol	107	10.906	10.914	(0.942)	1822	0.02639	0.02639
24	Benzoic acid	105	11.016	11.042	(0.952)	34088	0.90032	0.9003
26	1,2,4-Trichlorobenzene	180	11.492	11.500	(0.993)	231	0.00333	0.003327(M)
* 27	Naphthalene-d8	136	11.577	11.585	(1.000)	798613	4.00000	
30	Hexachlorobutadiene	225	Compound Not Detected.					
39	Dimethylphthalate	163	14.680	14.695	(0.968)	11542	0.09387	0.09387
* 42	Acenaphthene-d10	162	15.167	15.183	(1.000)	389627	4.00000	
50	Diethylphthalate	149	16.126	16.141	(1.063)	35343	0.27747	0.2775(M)
54	N-Nitrosodiphenylamine	169	Compound Not Detected.					
57	Hexachlorobenzene	284	17.569	17.584	(0.966)	144	0.00300	0.003001(M)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	58 Pentachlorophenol	266	17.933	17.941	(0.986)	1301	0.04911	0.04911
*	59 Phenanthrene-d10	188	18.188	18.196	(1.000)	798899	4.00000	
$	66 Terphenyl-d14	244	21.337	21.337	(0.918)	538001	4.43733	4.437(R)
	67 Butylbenzylphthalate	149	22.266	22.259	(0.958)	21936	0.22380	0.2238
*	69 Chrysene-d12	240	23.242	23.234	(1.000)	744124	4.00000	
*	77 Perylene-d12	264	25.859	25.836	(1.000)	885097	4.00000	
	79 Dibenzo(a,h)anthracene	278	28.518	28.487	(1.103)	51387	0.17700	0.1770
	90 N-Nitrosodimethylamine	74	Compound Not Detected.					

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1003212313S.D
Lab Smp Id: 23C0071-04
Analysis Type: SV
Quant Type: ISTD
Operator: JGR
Method File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\SIMABN2.m
Misc Info:

Calibration Date: 21-MAR-2023
Calibration Time: 18:25
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	162628	81314	325256	225415	38.61
27 Naphthalene-d8	580280	290140	1160560	798613	37.63
42 Acenaphthene-d10	297255	148628	594510	389627	31.08
59 Phenanthrene-d10	561093	280547	1122186	798899	42.38
69 Chrysene-d12	498827	249414	997654	744124	49.17
77 Perylene-d12	558480	279240	1116960	885097	58.48

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.11	8.61	9.61	9.11	0.00
27 Naphthalene-d8	11.59	11.09	12.09	11.58	-0.07
42 Acenaphthene-d10	15.18	14.68	15.68	15.17	-0.10
59 Phenanthrene-d10	18.20	17.70	18.70	18.19	-0.04
69 Chrysene-d12	23.23	22.73	23.73	23.24	0.03
77 Perylene-d12	25.84	25.34	26.34	25.86	0.09

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

REVIEW SUMMARY FOR FILE - NT1003212313S.D

Lab ID: 23C0071-04
nt10.i, 20230321.b\20230321.b\SIMABN2.m,   22-MAR-2023 00:52

RT	CO-ELUTION COMPOUNDS
NO CO-ELUTIONS	

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
NONE			

RRT check based on Ccal File: 20230321.b/NT1003212303S.D

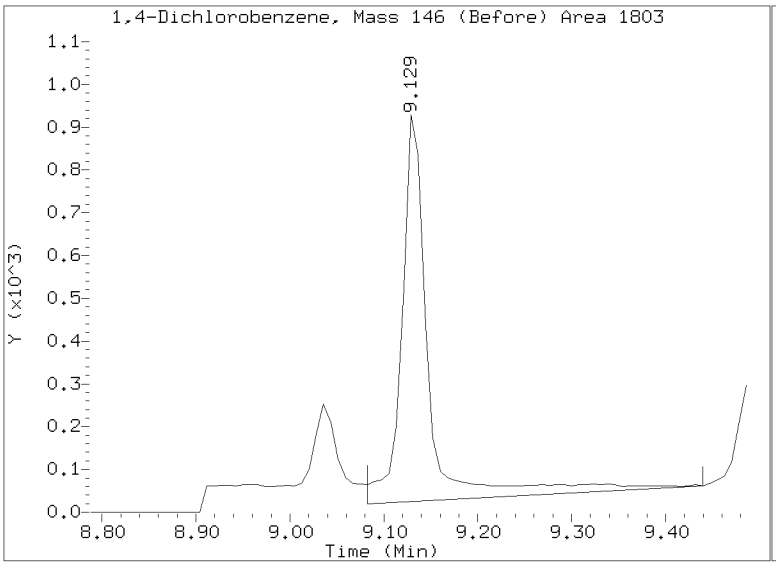
On Column LOD for nt10.i, 20230321.b\SIMABN2.m, PSDDA.sub = 0.0000

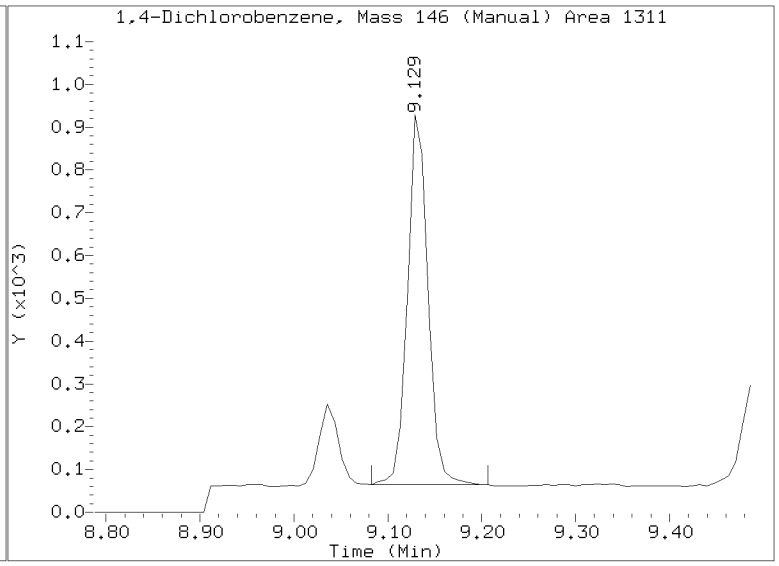
Exception: 1,2,4-Trichlorobenzene 0.0010

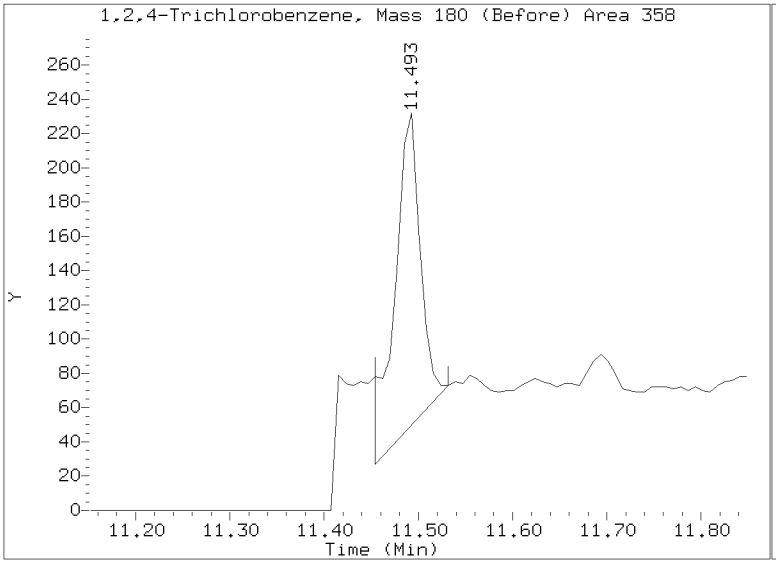
* Only compounds listed in the work order have been verified by the analyst *

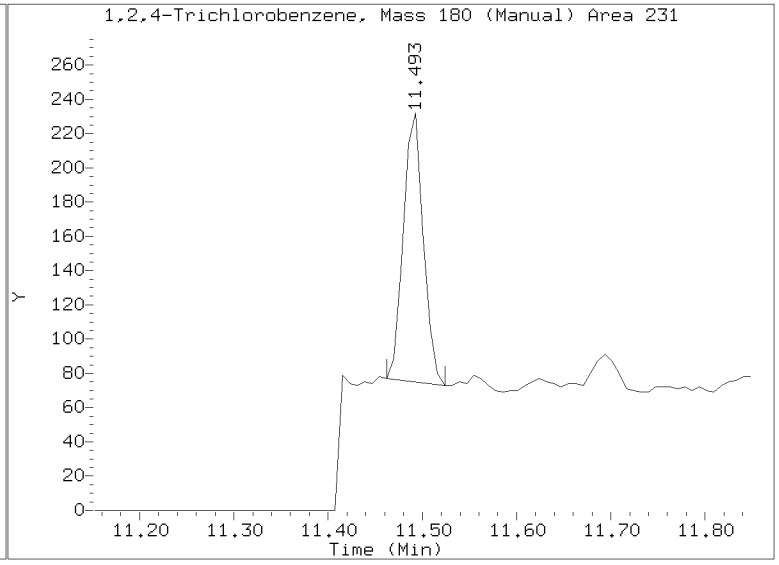
Quant Ion Manual Peak Adjustment Report

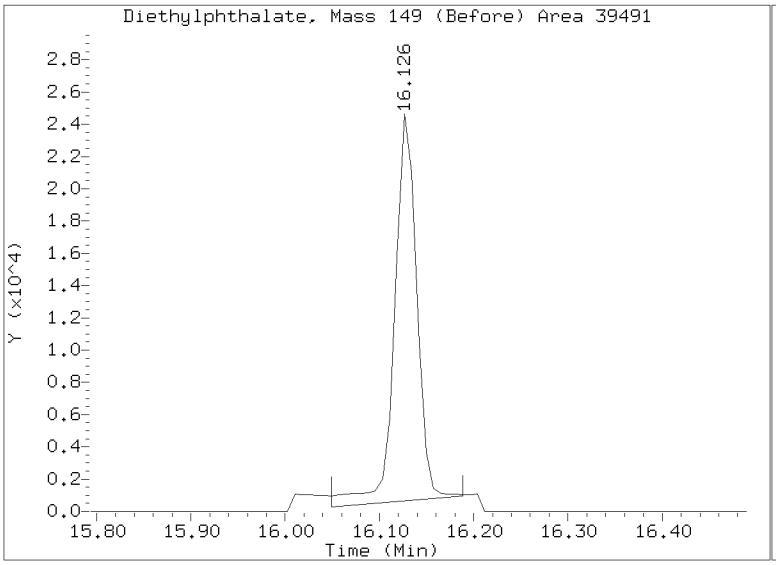
Datafile: //target/share/chem3/nt10.i/20230321.b/20230321.b/NT1003212313S.D
Injection Date: 22-MAR-2023 00:52
Lab ID:23C0071-04 Client ID:
Report Date: 03/29/2023 13:24

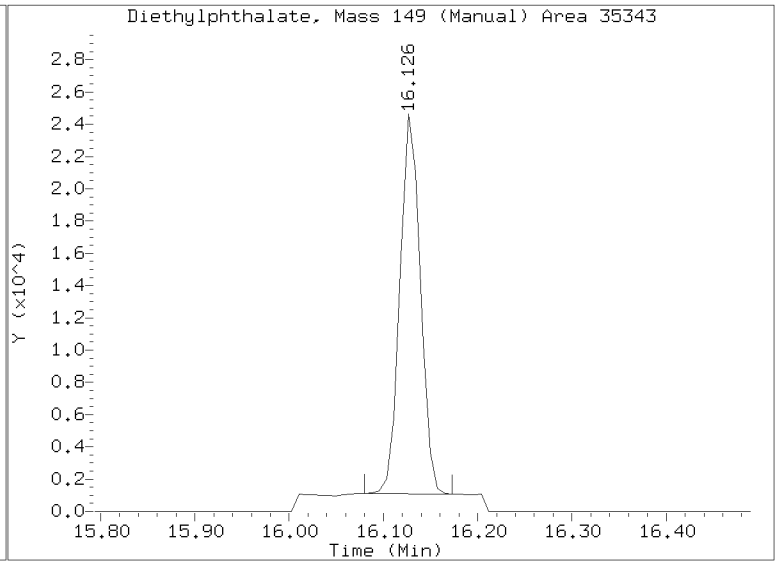






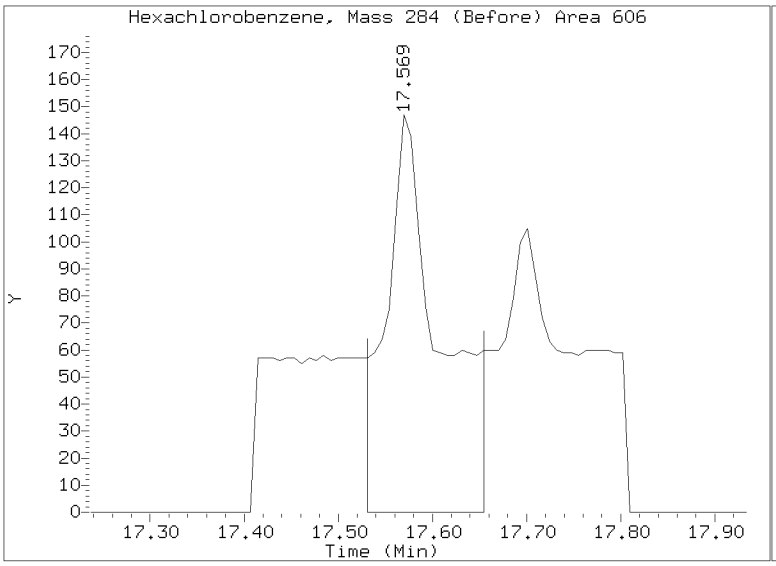


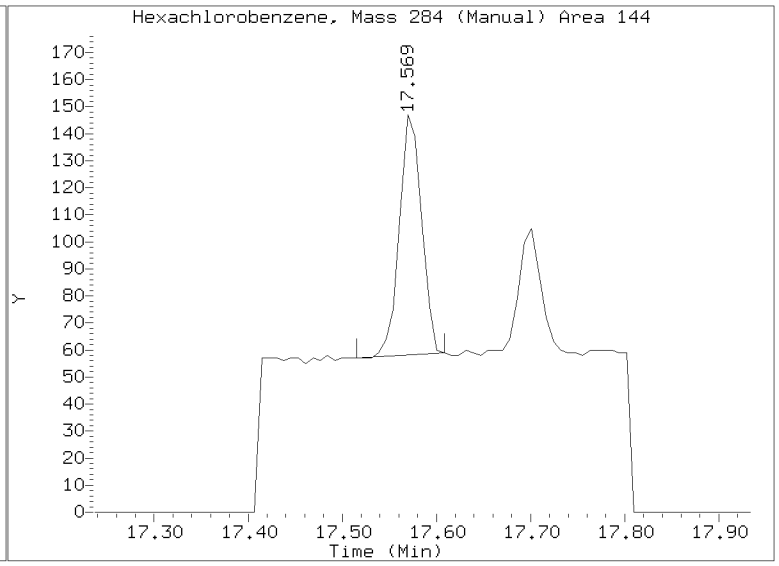




Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230321.b/20230321.b/NT1003212313S.D
Injection Date: 22-MAR-2023 00:52
Lab ID:23C0071-04 Client ID:
Report Date: 03/29/2023 13:24





Analytical Resources, LLC
Analytical Chemists and Consultants

LDW23-SS1048

Form I

ORGANIC ANALYSIS DATA SHEET

EPA 8270E-SIM

SIM SVOC Organics (Dual scan list)

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0071-05 A	SDG:	23C0071
Sampled:	03/02/23 10:32	Prepared:	03/07/23 10:21	File ID:	NT1003212314S.D
% Solids:	50.00	Preparation:	EPA 3546 (Microwave)	Analyzed:	03/22/23 01:30
Batch:	BLC0109	Sequence:	SLC0452	Initial/Final:	20 g Wet / 1 mL
Instrument:	NT10	Column:	ZB-5MSi	Calibration:	GC00049
Cleanups:	GPC				

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
106-46-7	1,4-Dichlorobenzene	1	1.4	J	0.6	5.0
95-50-1	1,2-Dichlorobenzene	1	0.9	J	0.7	5.0
100-51-6	Benzyl Alcohol	1	60.6		2.5	20.0
65-85-0	Benzoic acid	1	110		13.4	100
105-67-9	2,4-Dimethylphenol	1	20.0	U	2.2	20.0
120-82-1	1,2,4-Trichlorobenzene	1	5.0	U	2.7	5.0
86-30-6	N-Nitrosodiphenylamine	1	5.0	U	1.3	5.0
87-86-5	Pentachlorophenol	1	2.7	J	2.1	20.0

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorophenol	750.00	569	75.9	27 - 120	
p-Terphenyl-d14	500.00	460	92.1	37 - 120	

Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT10032123148.D

Date : 22-MAR-2023 01:30

Client ID:

Instrument: nt10.i

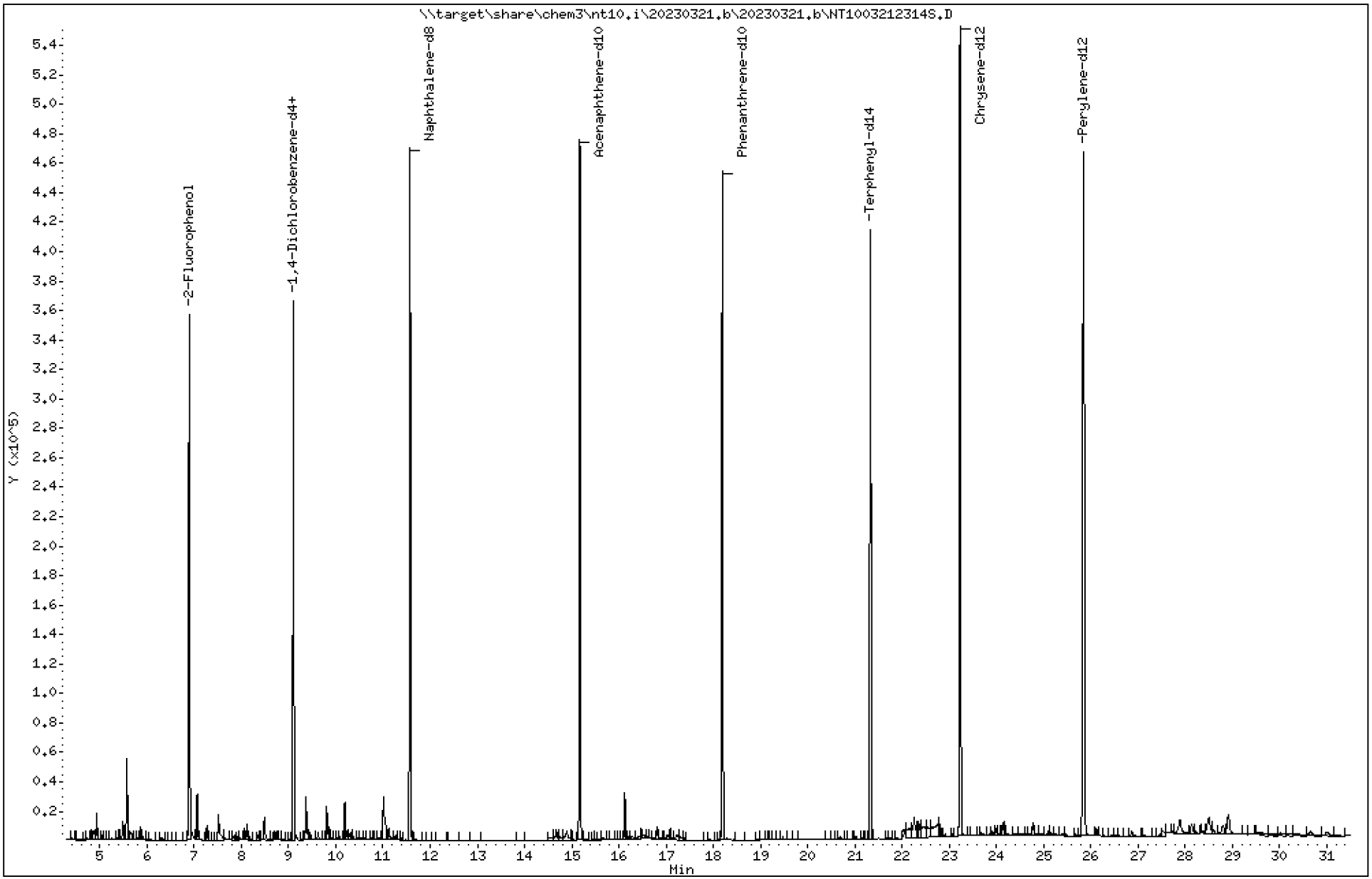
Sample Info: 23C0071-05

Volume Injected (uL): 1.0

Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25



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Date : 22-MAR-2023 01:30

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-05

Volume Injected (uL): 1.0

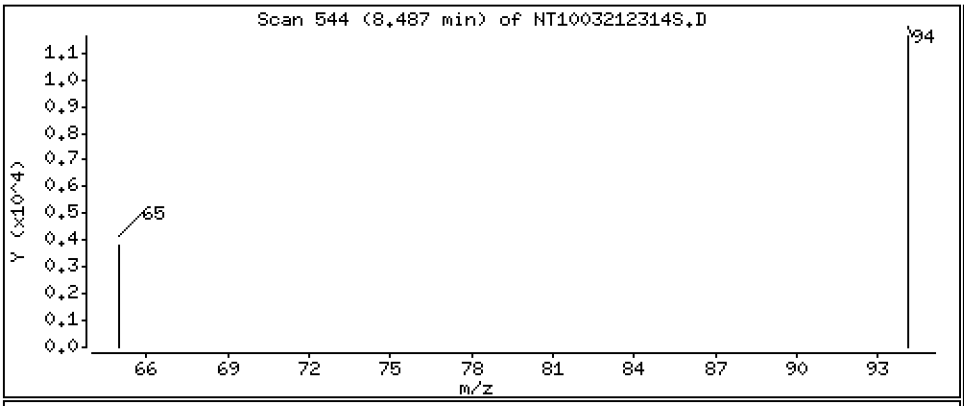
Operator: JGR

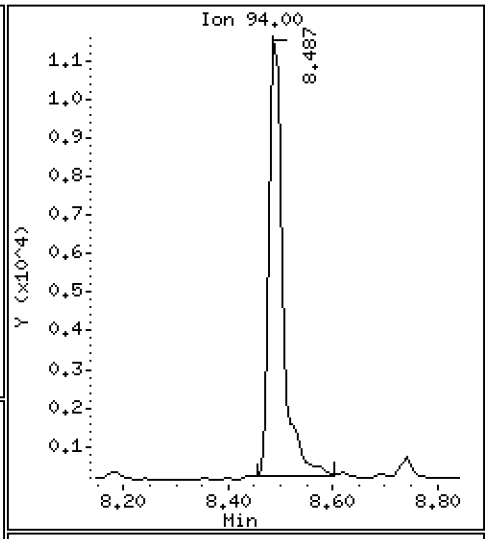
Column phase: ZB-5msi

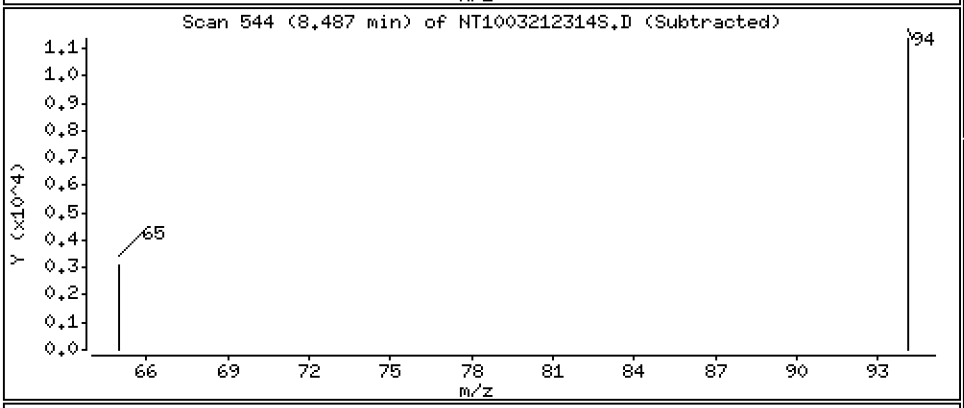
Column diameter: 0.25

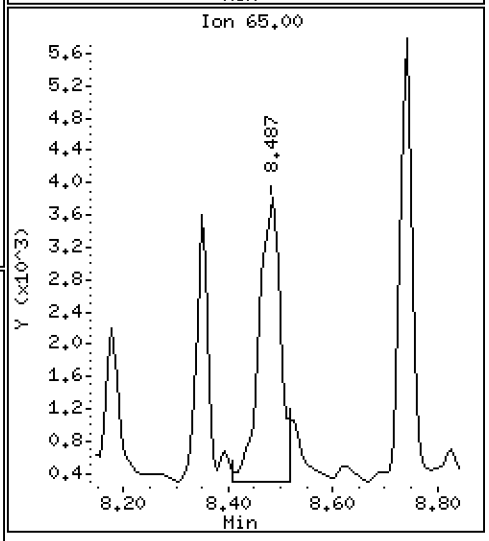
3 Phenol

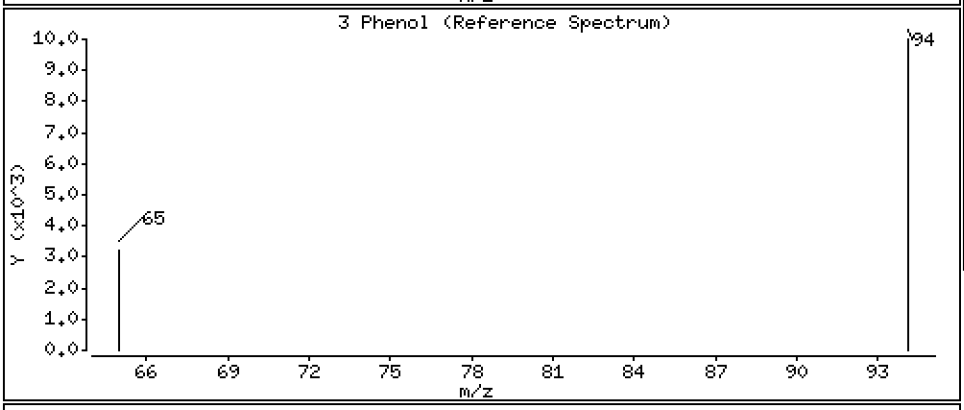
Concentration: 0.2195 ug/L

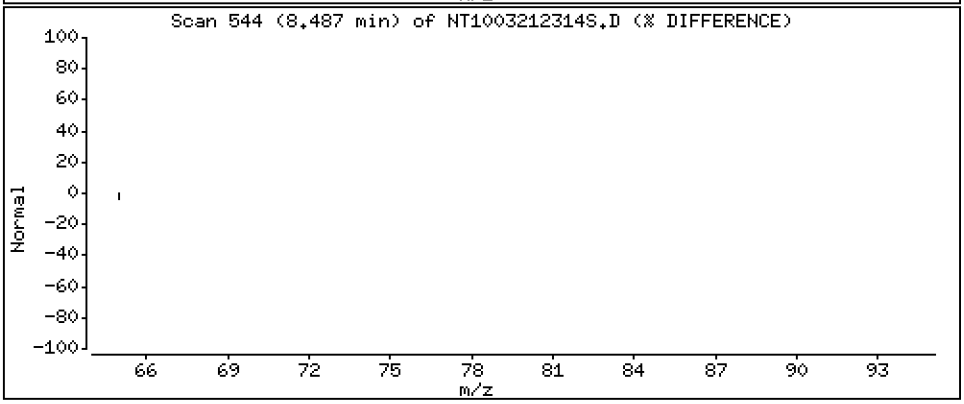












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Date : 22-MAR-2023 01:30

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-05

Volume Injected (uL): 1.0

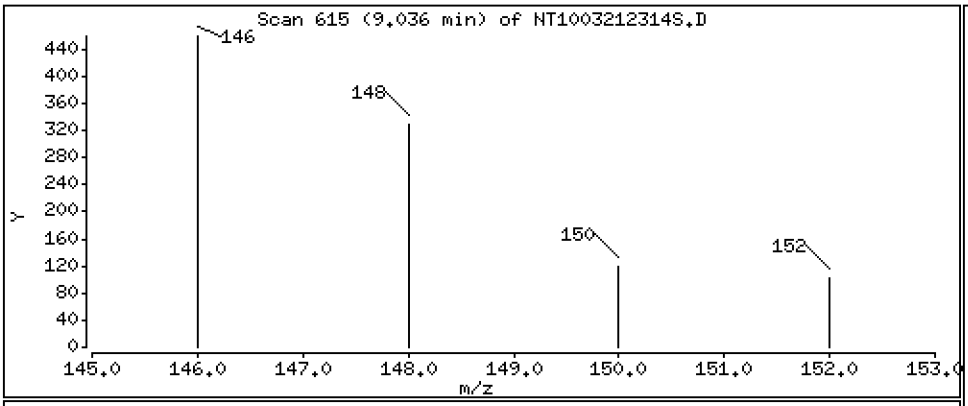
Operator: JGR

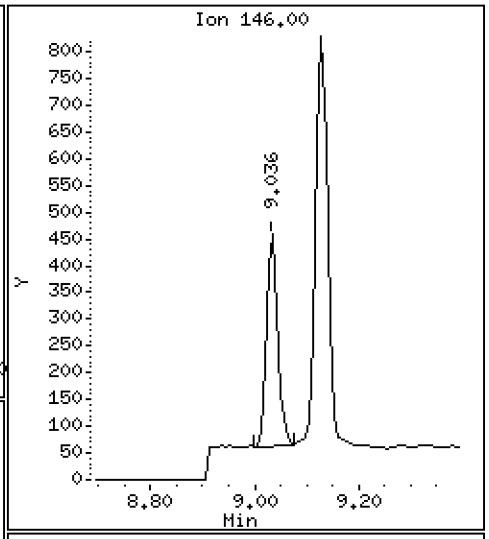
Column phase: ZB-5msi

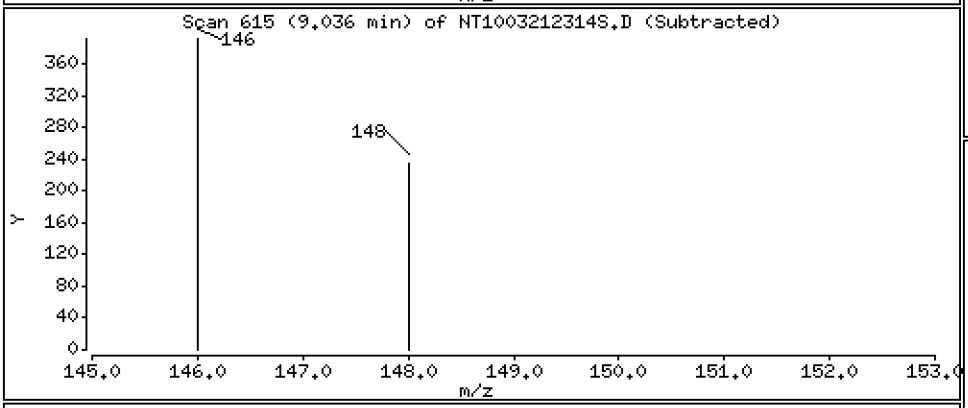
Column diameter: 0.25

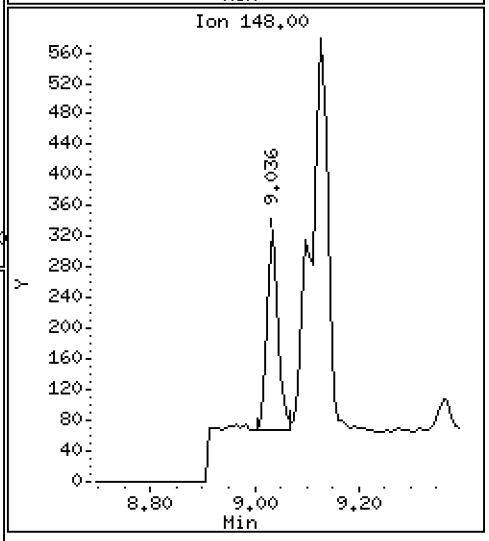
7 1,3-Dichlorobenzene

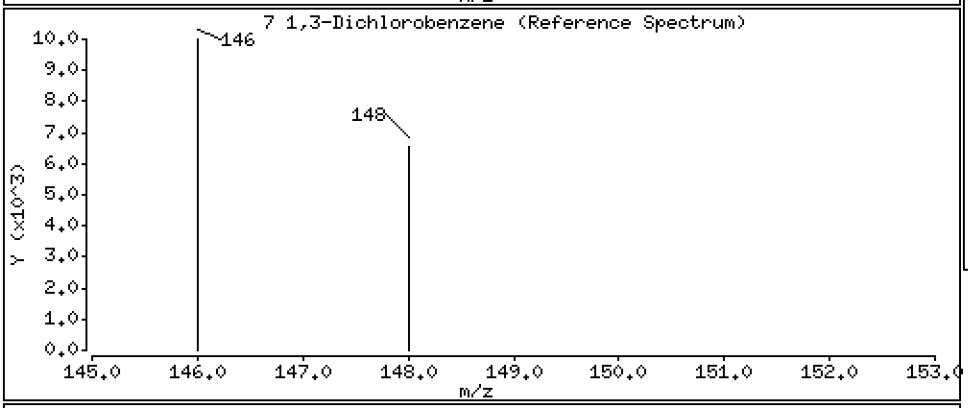
Concentration: 0.007068 ug/L

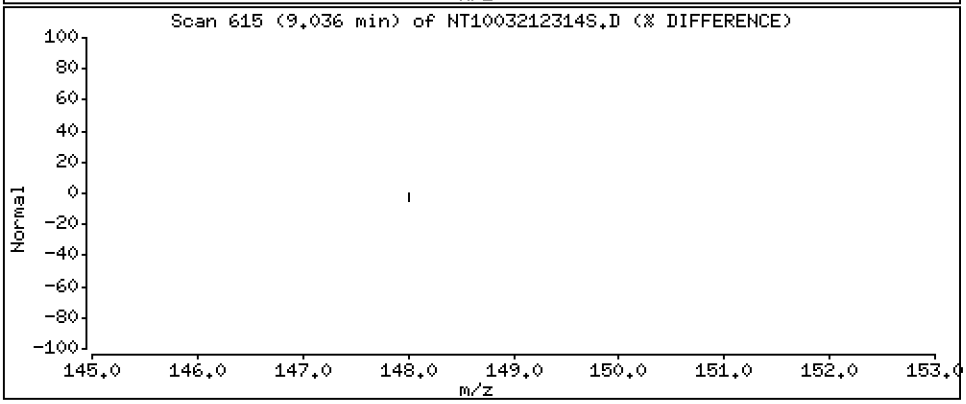












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Date : 22-MAR-2023 01:30

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-05

Volume Injected (uL): 1.0

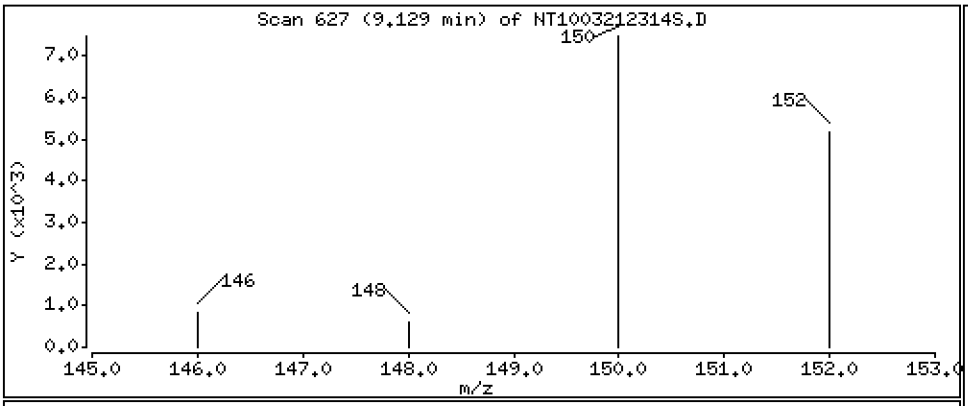
Operator: JGR

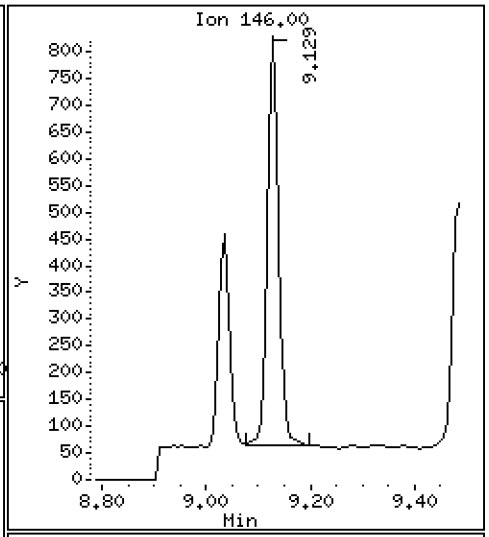
Column phase: ZB-5msi

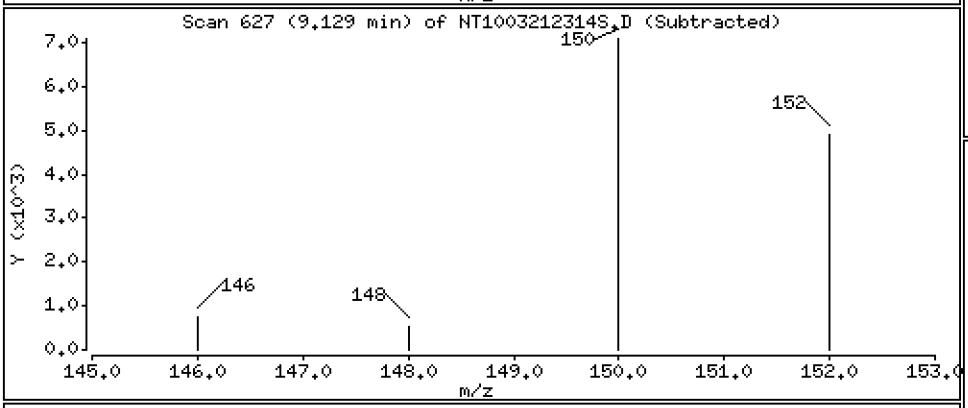
Column diameter: 0.25

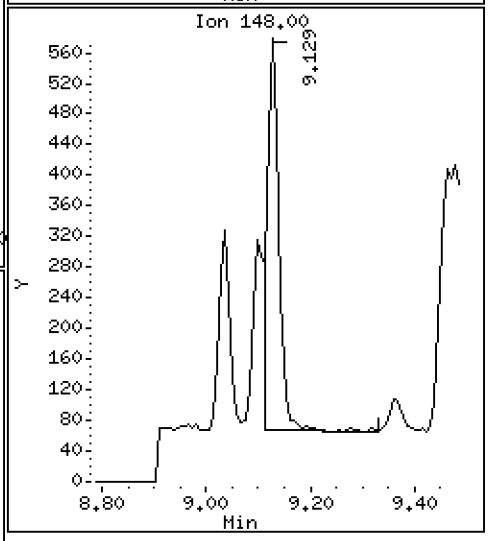
9 1,4-Dichlorobenzene

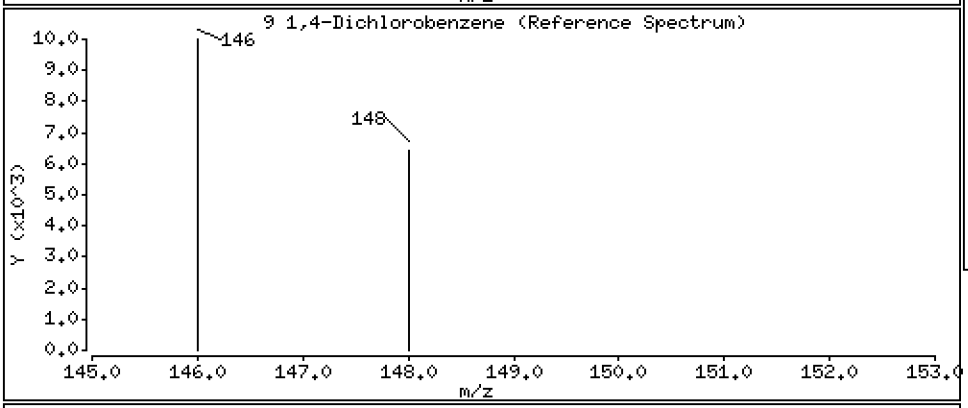
Concentration: 0.01419 ug/L

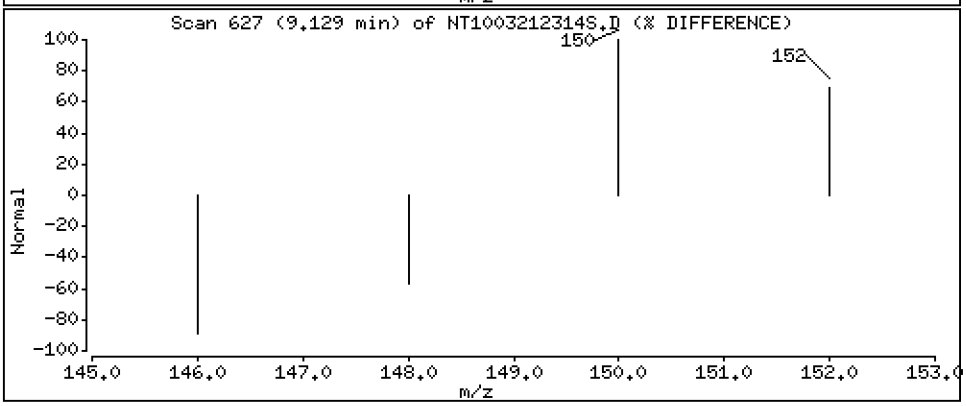












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Date : 22-MAR-2023 01:30

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-05

Volume Injected (uL): 1.0

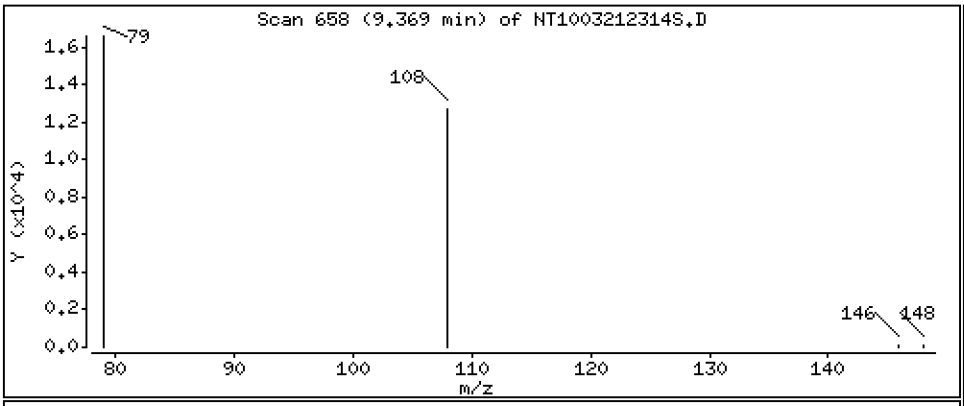
Operator: JGR

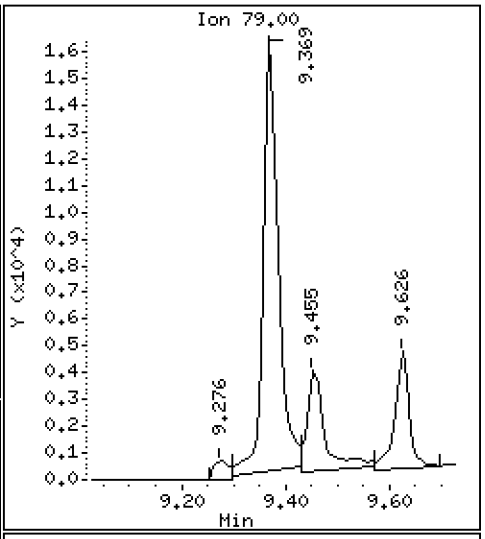
Column phase: ZB-5msi

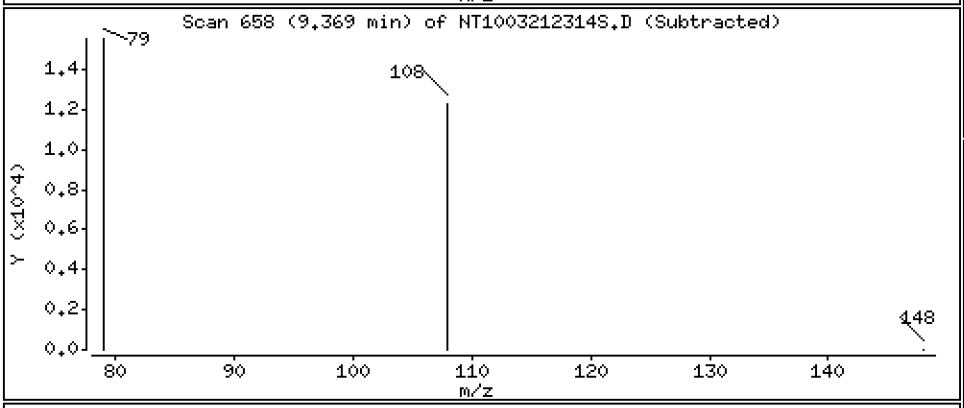
Column diameter: 0.25

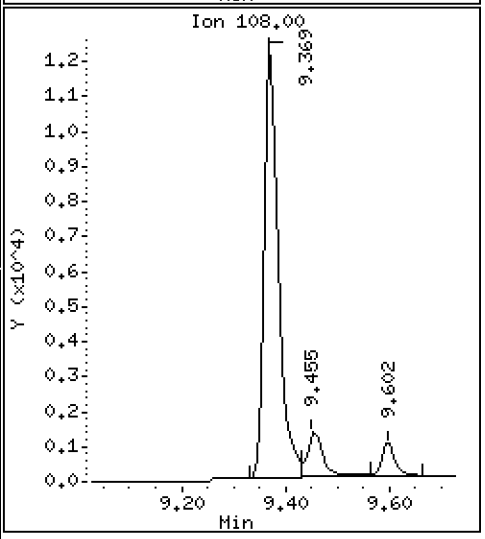
11 Benzyl alcohol

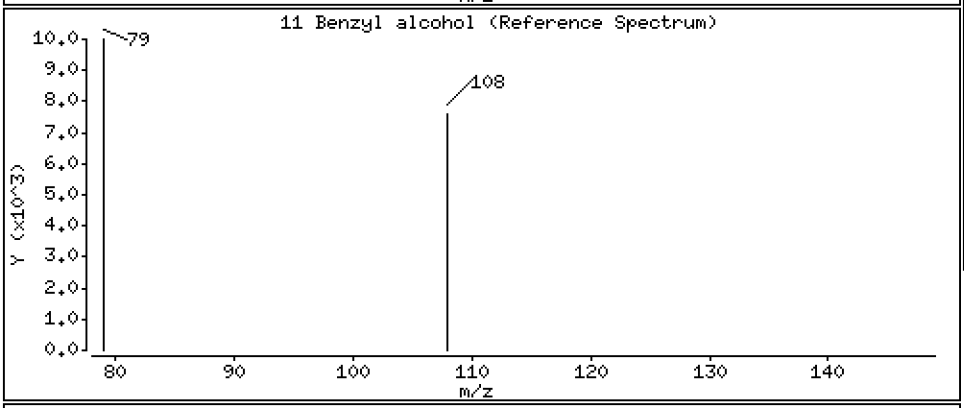
Concentration: 0.6057 ug/L

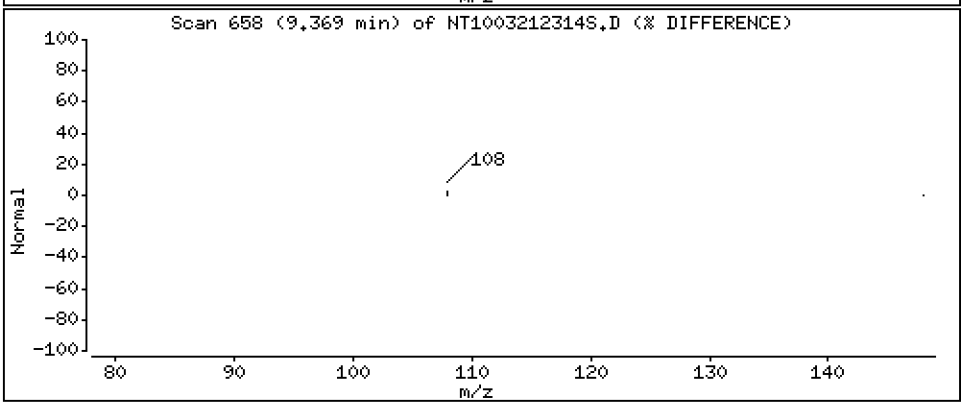












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Date : 22-MAR-2023 01:30

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-05

Volume Injected (uL): 1.0

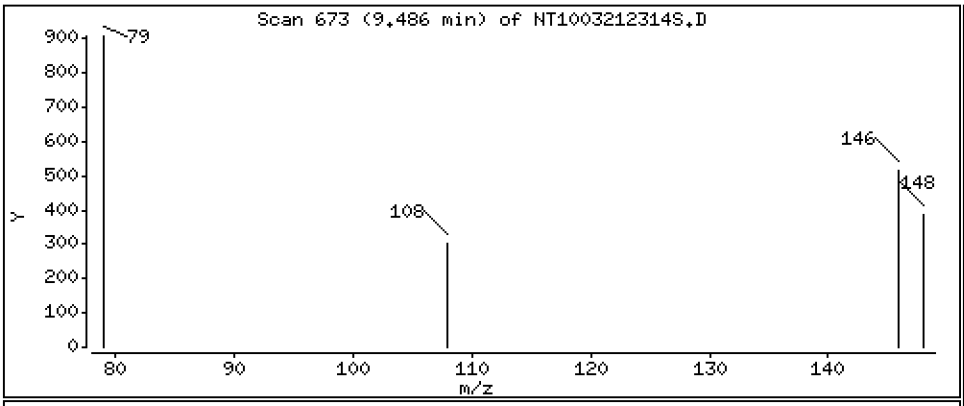
Operator: JGR

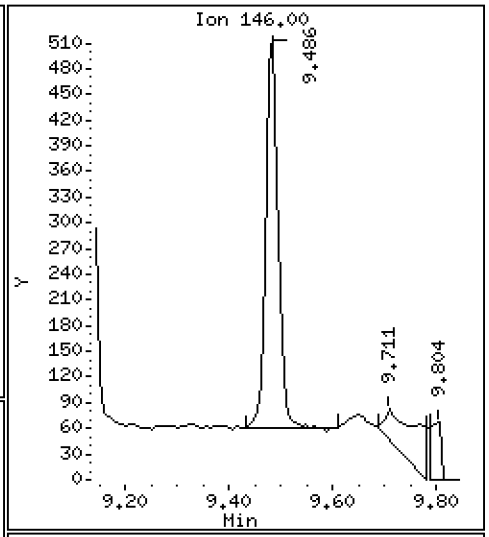
Column phase: ZB-5msi

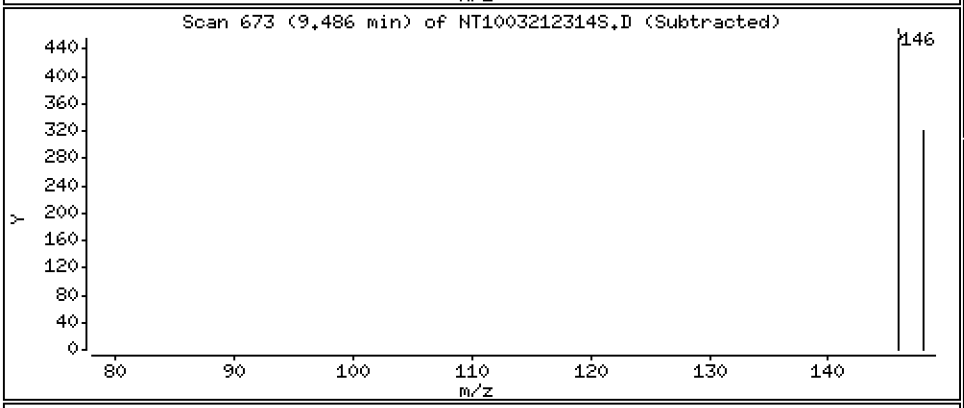
Column diameter: 0.25

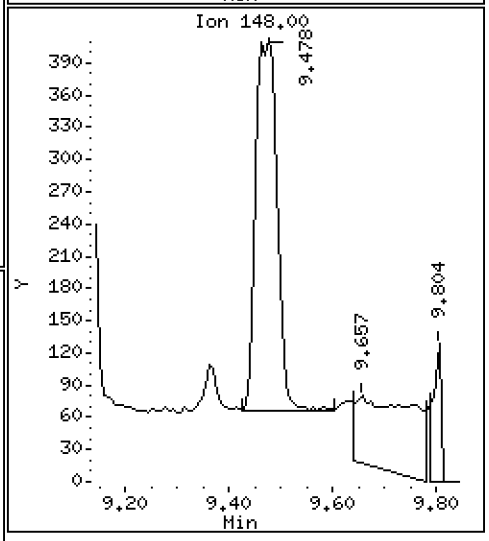
12 1,2-Dichlorobenzene

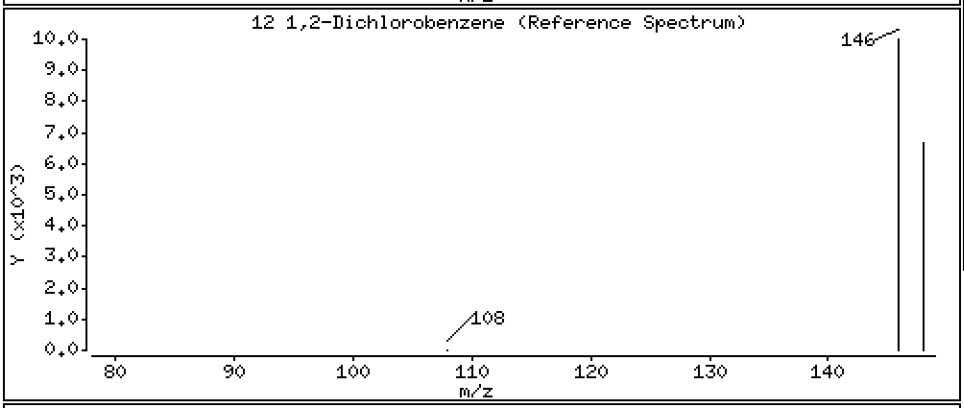
Concentration: 0.009142 ug/L

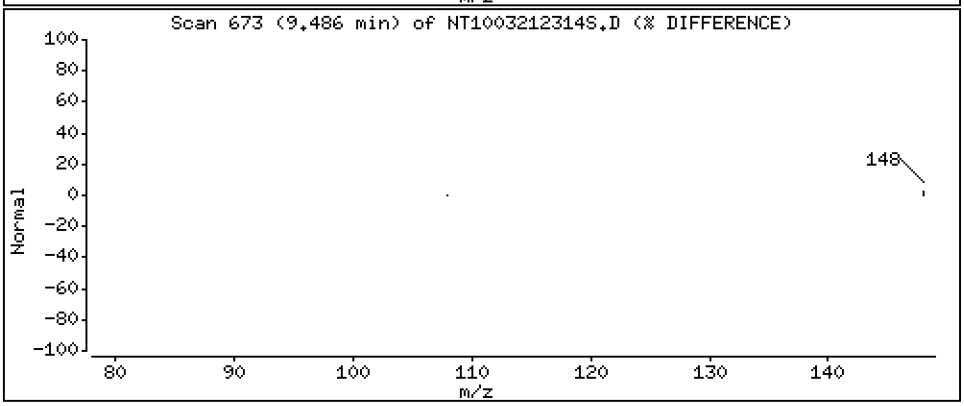












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Date : 22-MAR-2023 01:30

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-05

Volume Injected (uL): 1.0

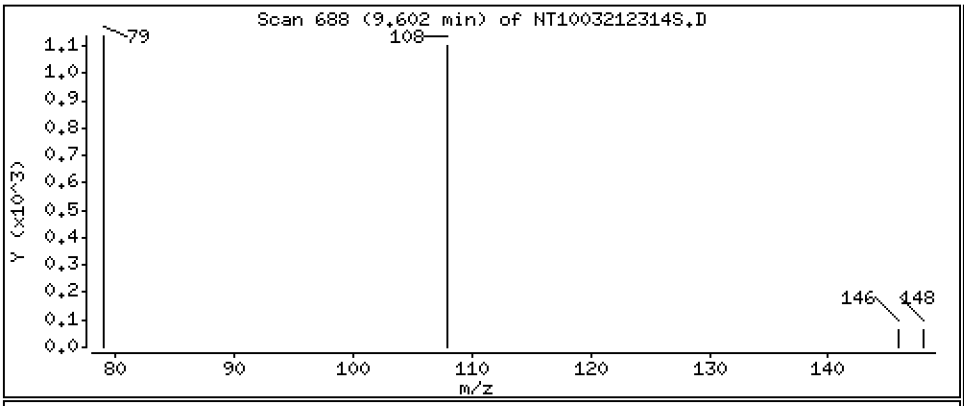
Operator: JGR

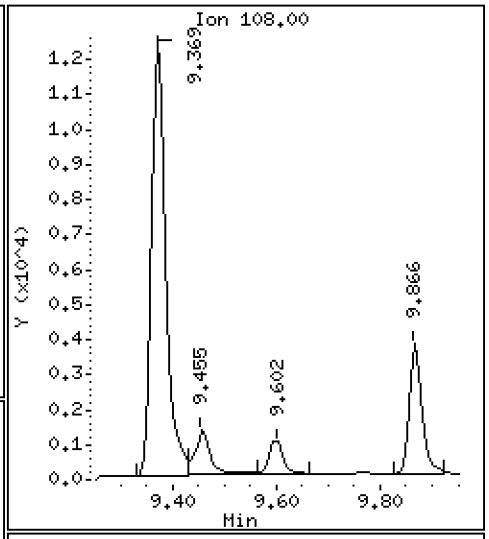
Column phase: ZB-5msi

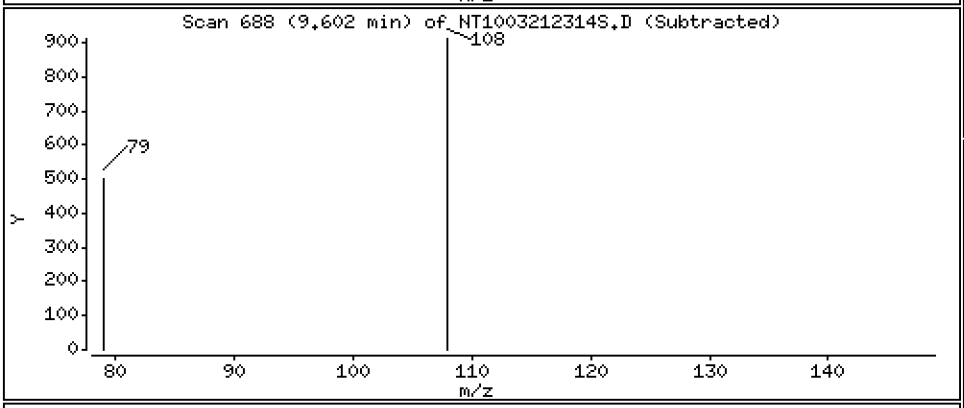
Column diameter: 0.25

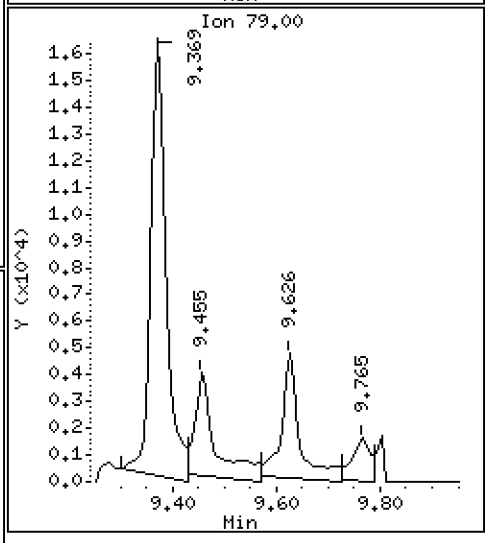
13 2-Methylphenol

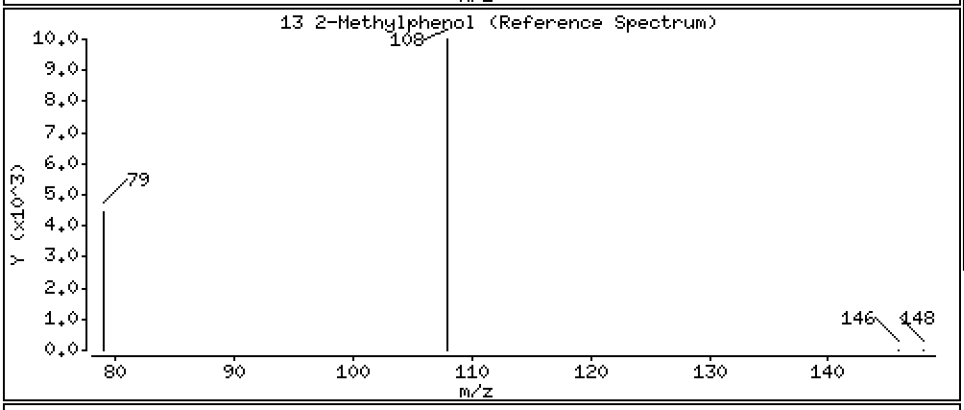
Concentration: 0.02609 ug/L

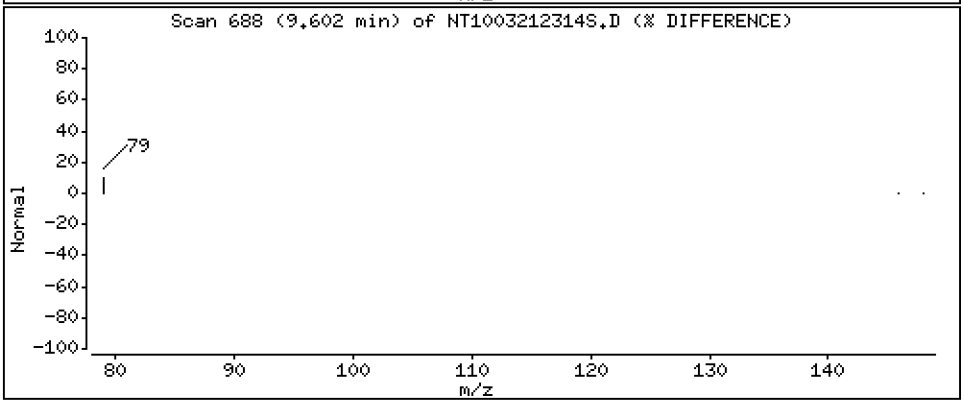












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212314S.D

Date : 22-MAR-2023 01:30

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-05

Volume Injected (uL): 1.0

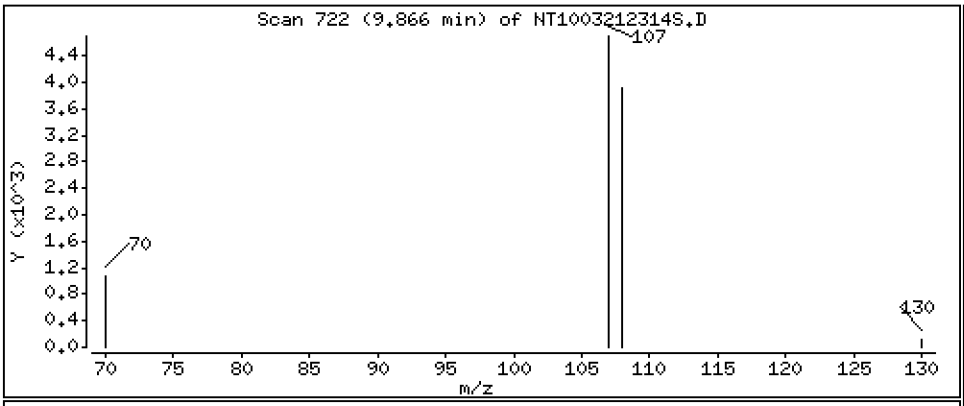
Operator: JGR

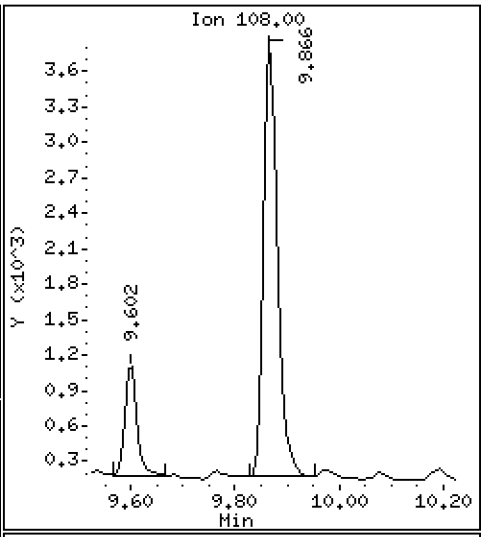
Column phase: ZB-5msi

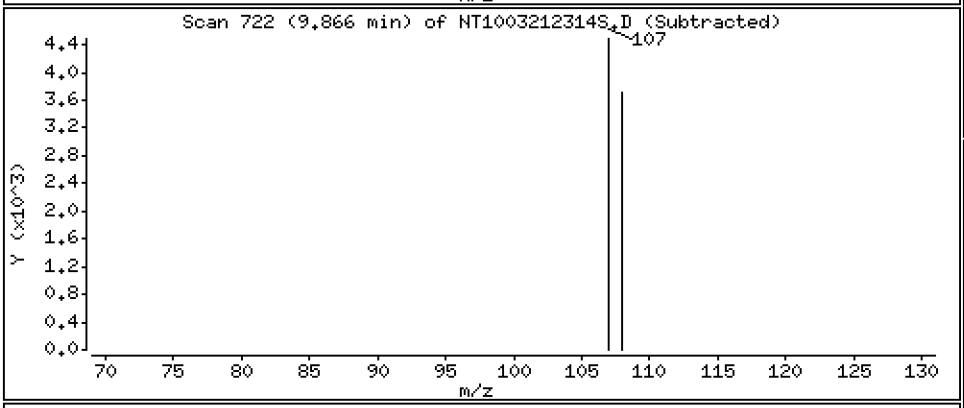
Column diameter: 0.25

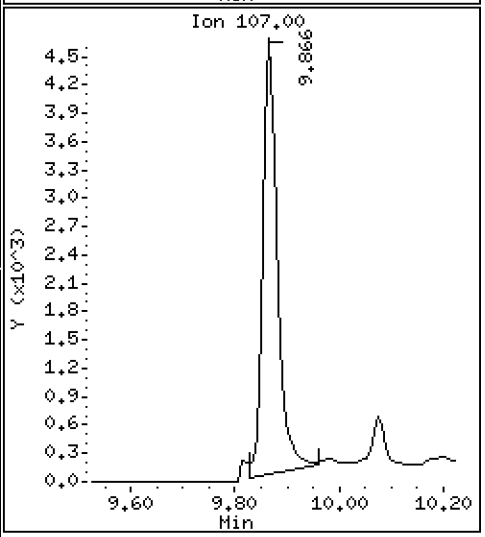
15 4-Methylphenol

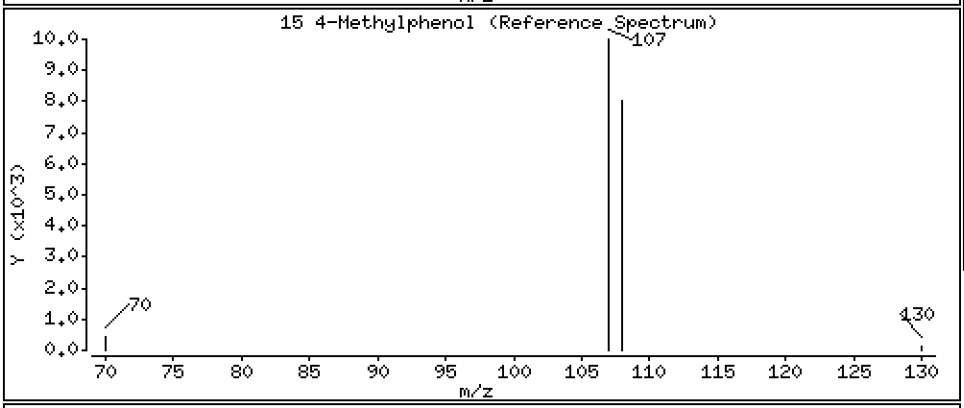
Concentration: 0.09958 ug/L

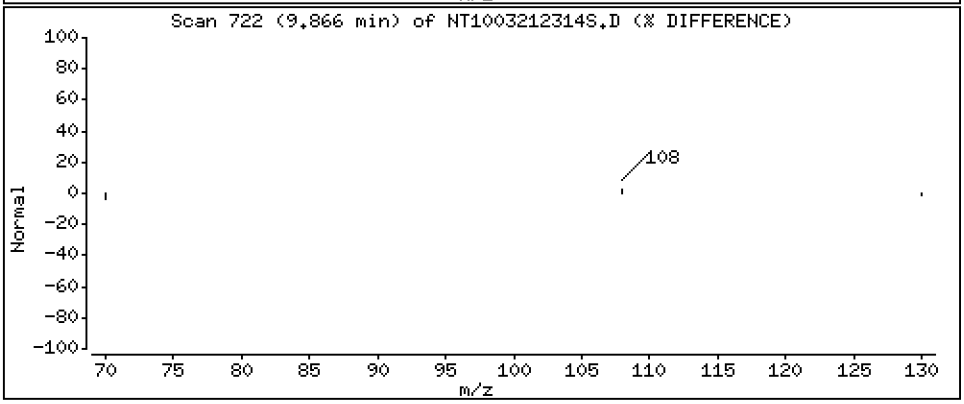












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT10032123145.D

Date : 22-MAR-2023 01:30

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-05

Volume Injected (uL): 1.0

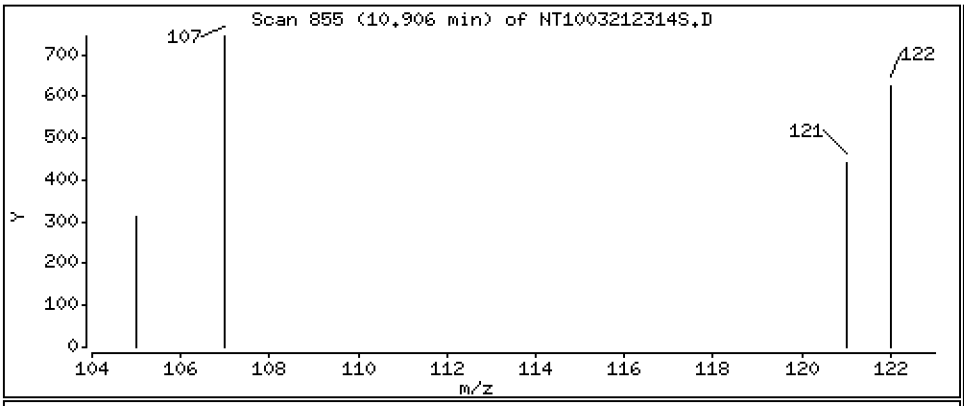
Operator: JGR

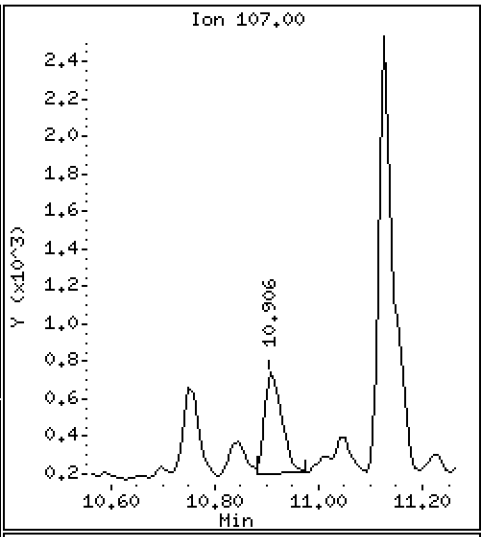
Column phase: ZB-5msi

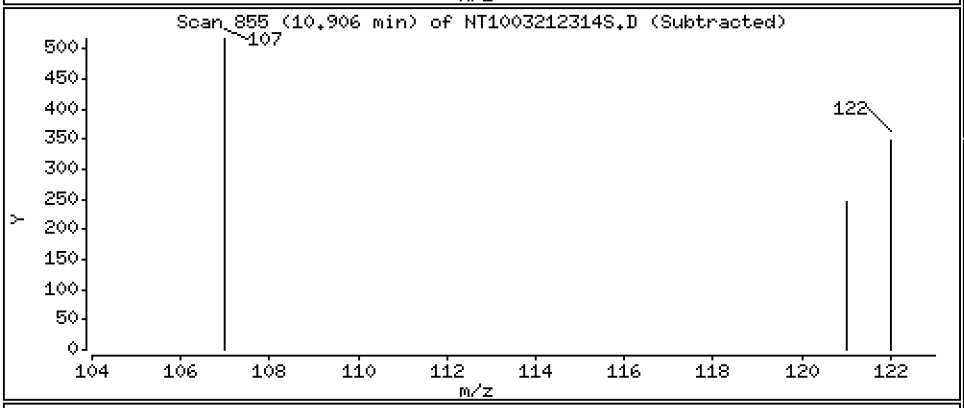
Column diameter: 0.25

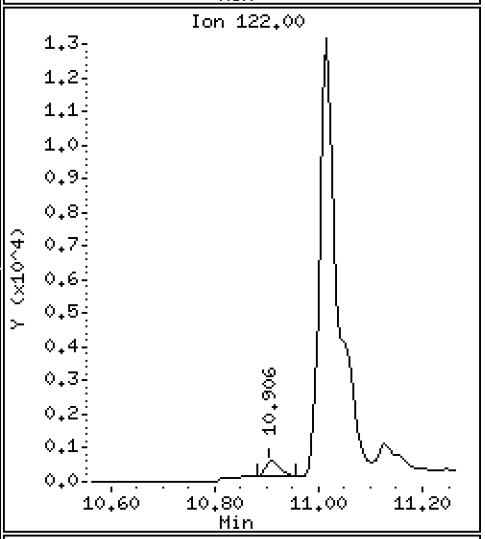
22 2,4-Dimethylphenol

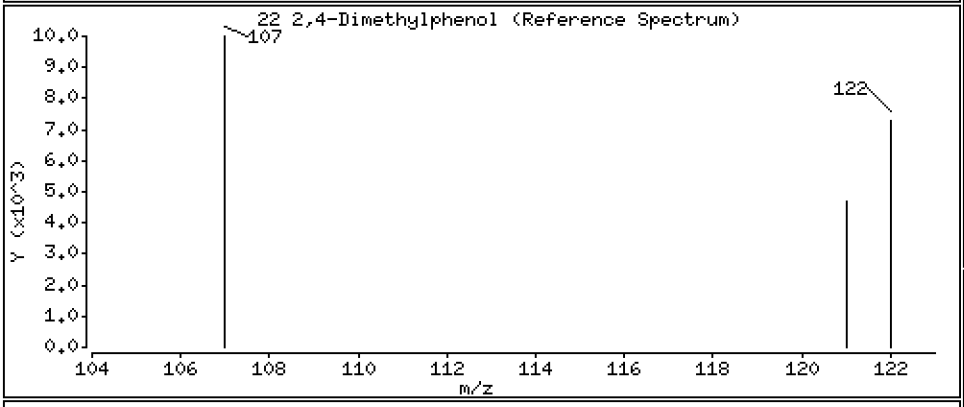
Concentration: 0.01869 ug/L

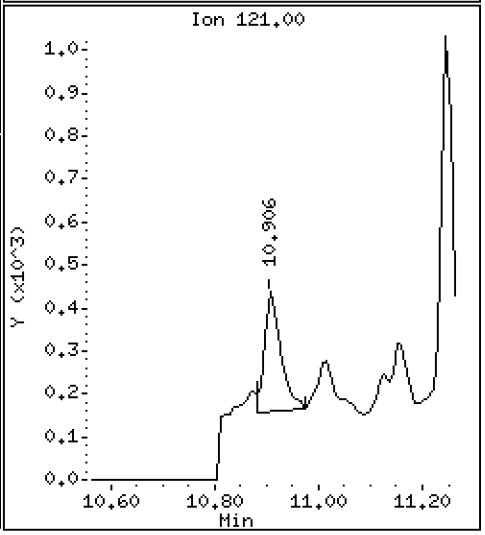


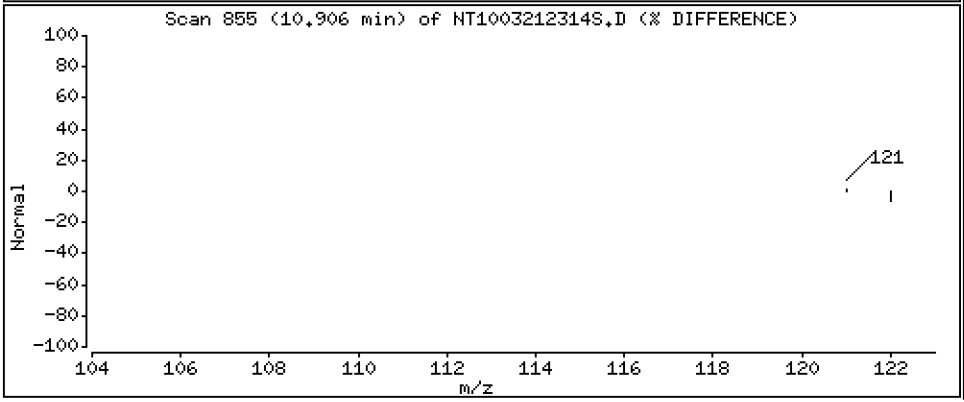












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Date : 22-MAR-2023 01:30

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-05

Volume Injected (uL): 1.0

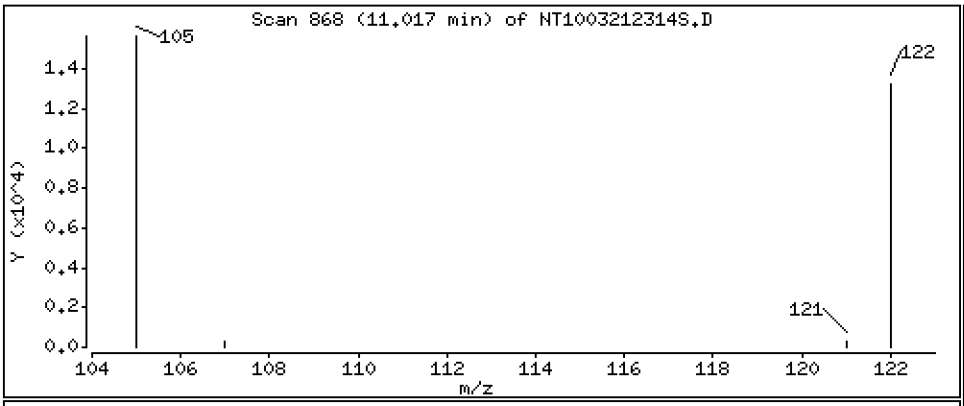
Operator: JGR

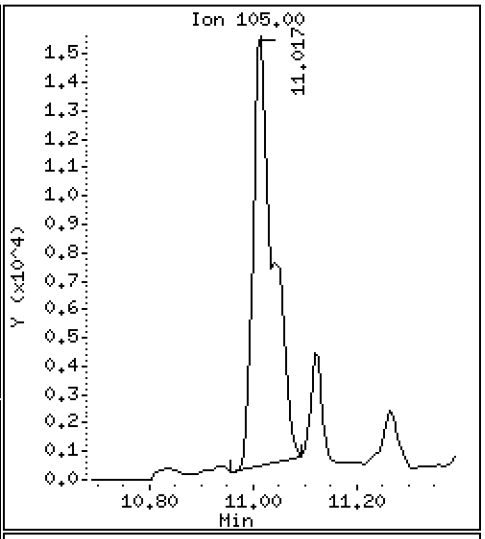
Column phase: ZB-5msi

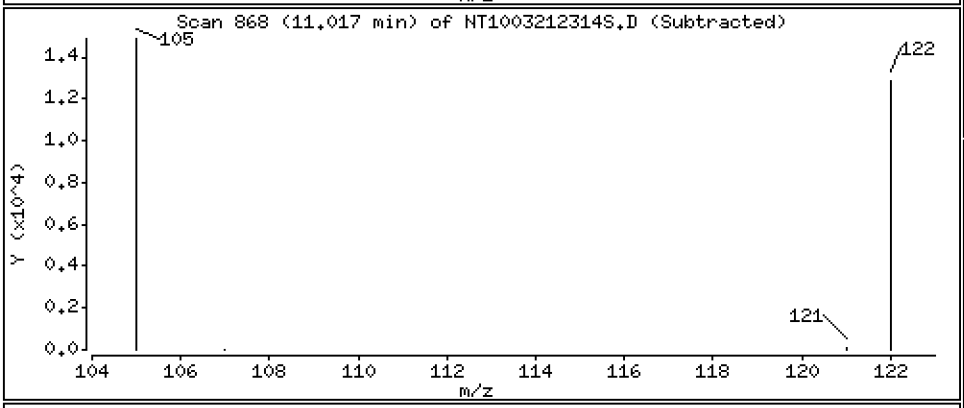
Column diameter: 0.25

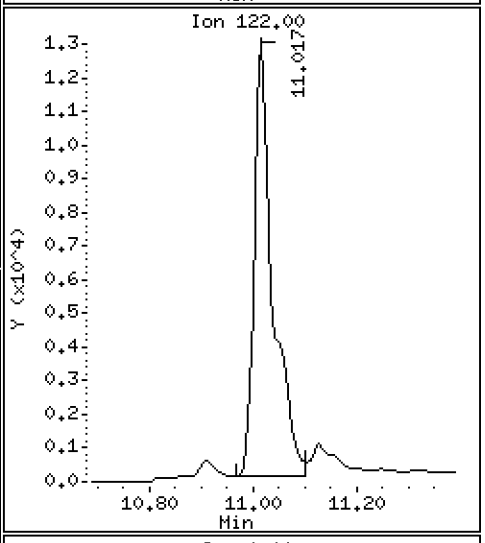
24 Benzoic acid

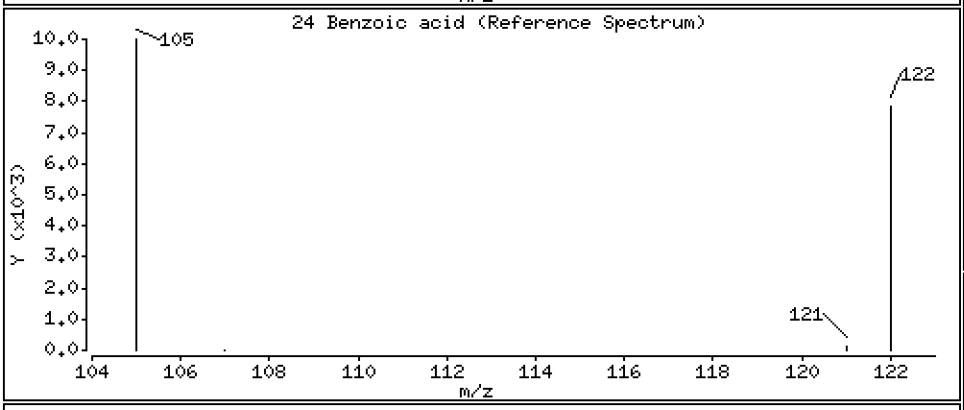
Concentration: 1.099 ug/L

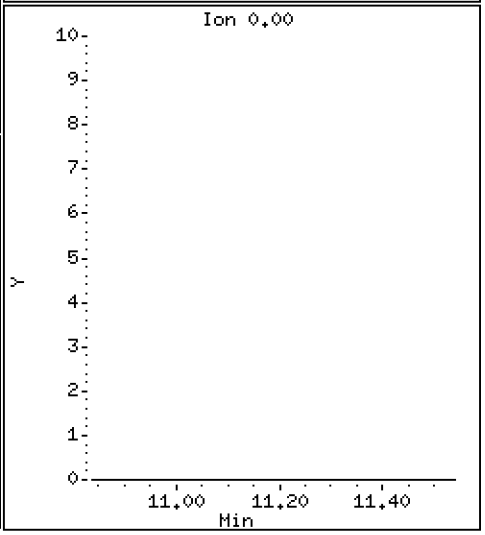


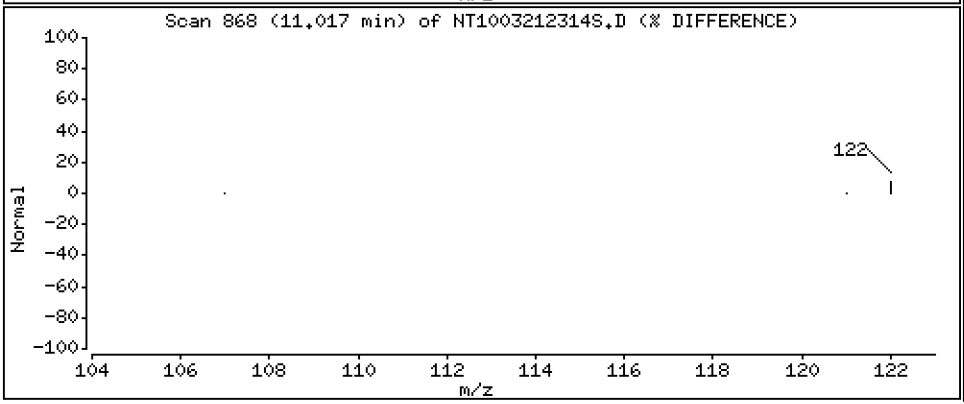












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212314S.D

Date : 22-MAR-2023 01:30

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-05

Volume Injected (uL): 1.0

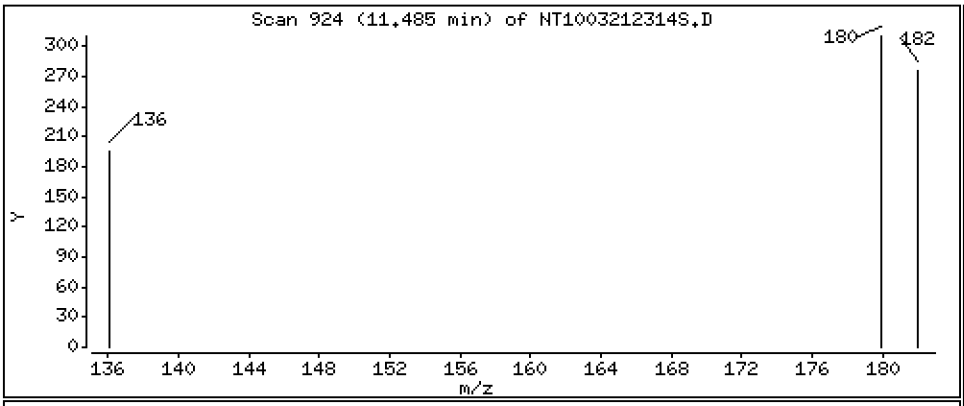
Operator: JGR

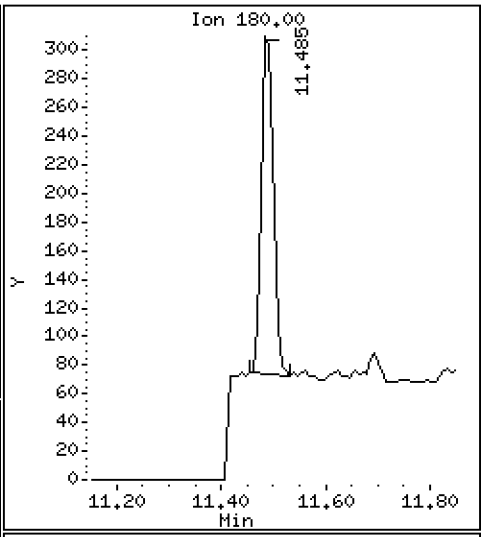
Column phase: ZB-5msi

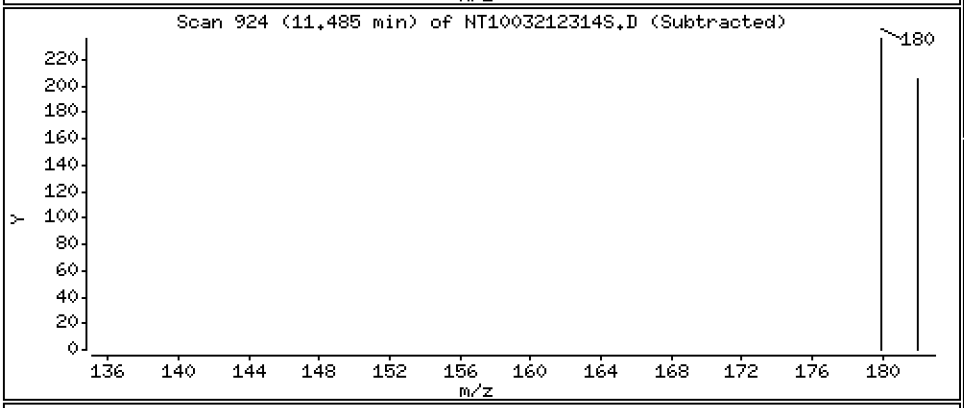
Column diameter: 0.25

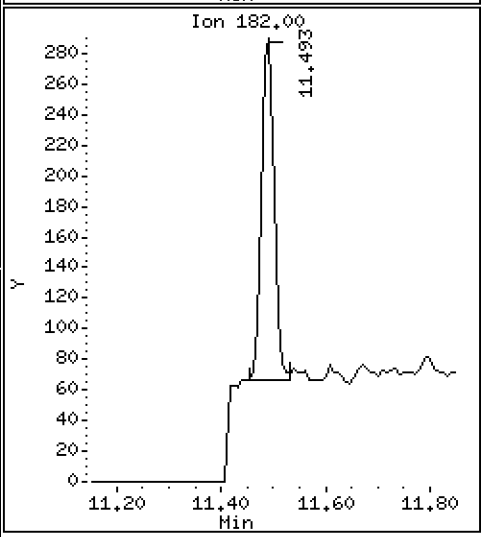
26 1,2,4-Trichlorobenzene

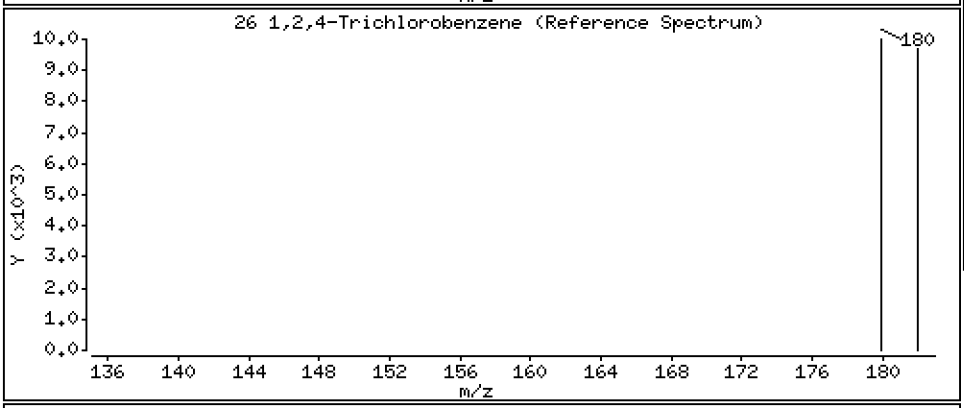
Concentration: 0.005341 ug/L

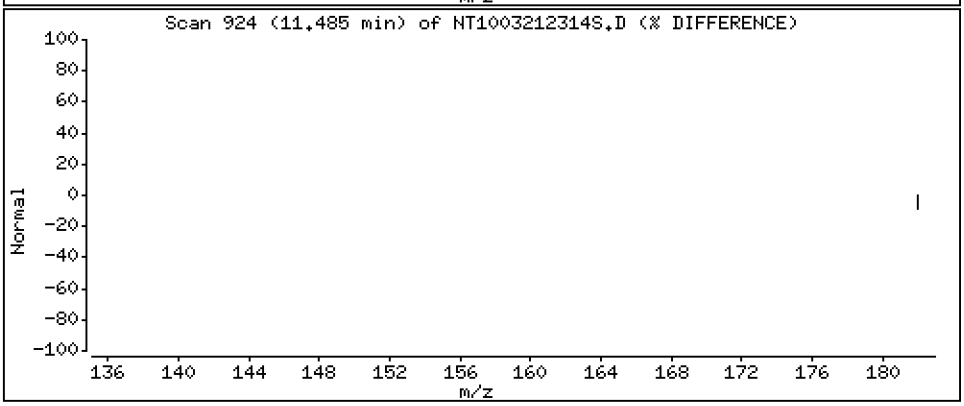












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212314S.D

Date : 22-MAR-2023 01:30

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-05

Volume Injected (uL): 1.0

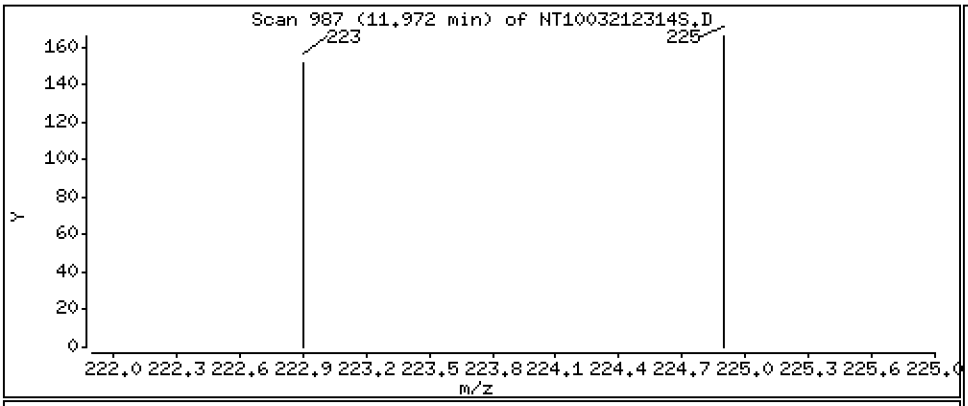
Operator: JGR

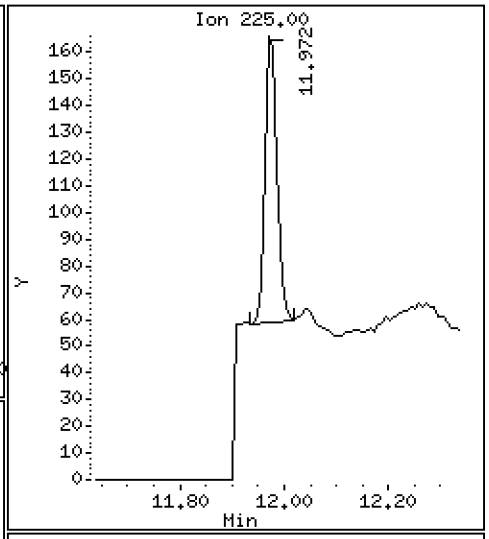
Column phase: ZB-5msi

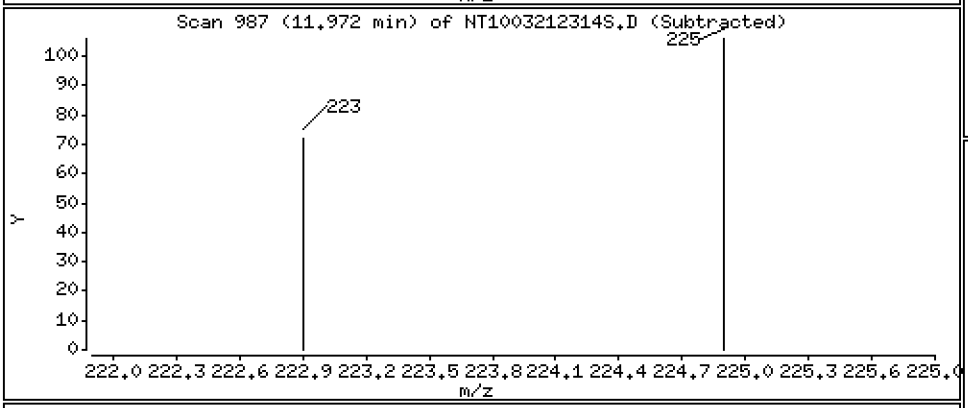
Column diameter: 0.25

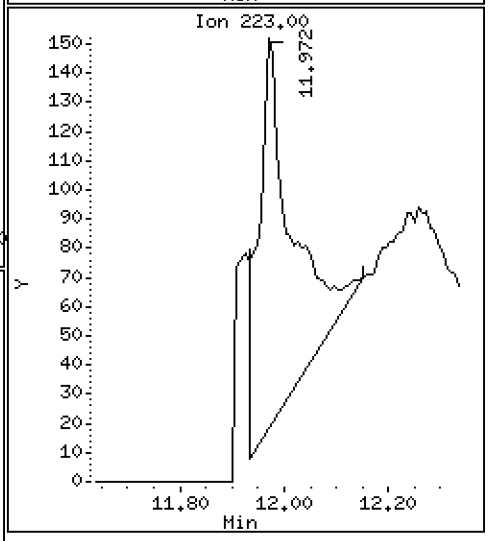
30 Hexachlorobutadiene

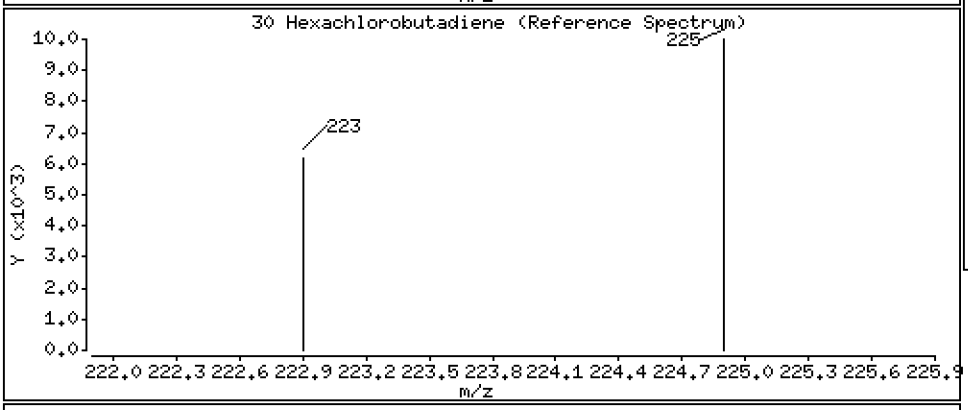
Concentration: 0.004135 ug/L

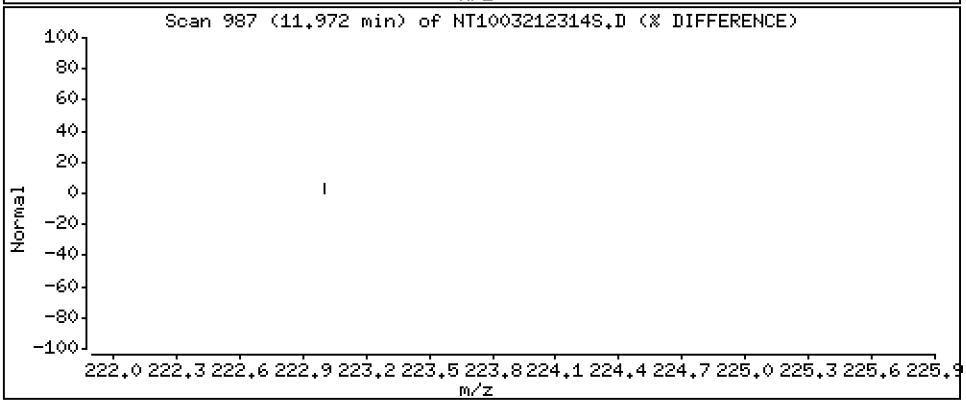












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212314S.D

Date : 22-MAR-2023 01:30

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-05

Volume Injected (uL): 1.0

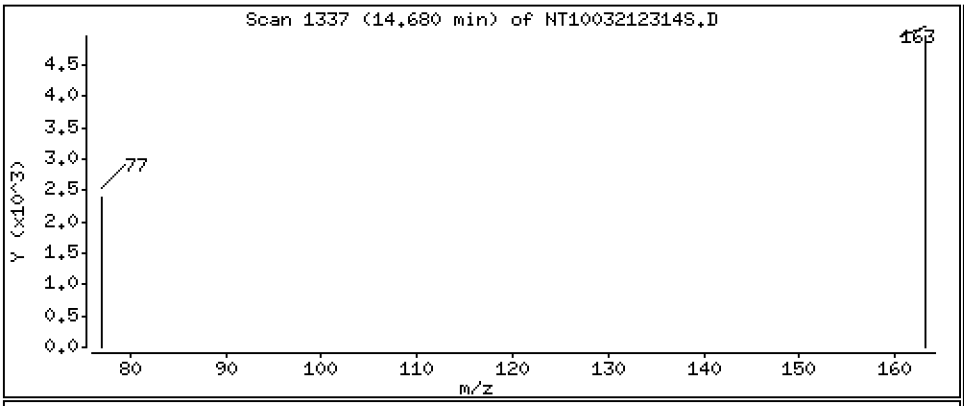
Operator: JGR

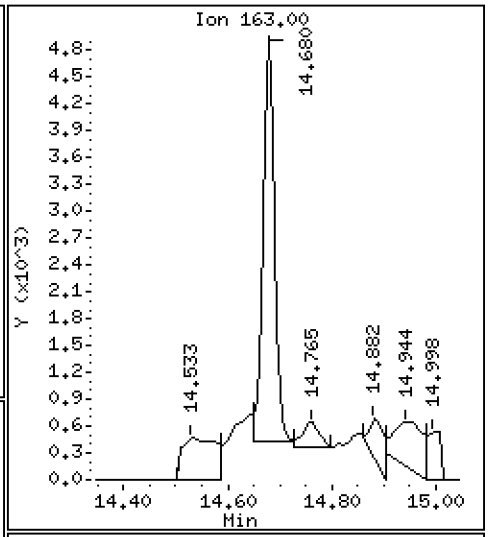
Column phase: ZB-5msi

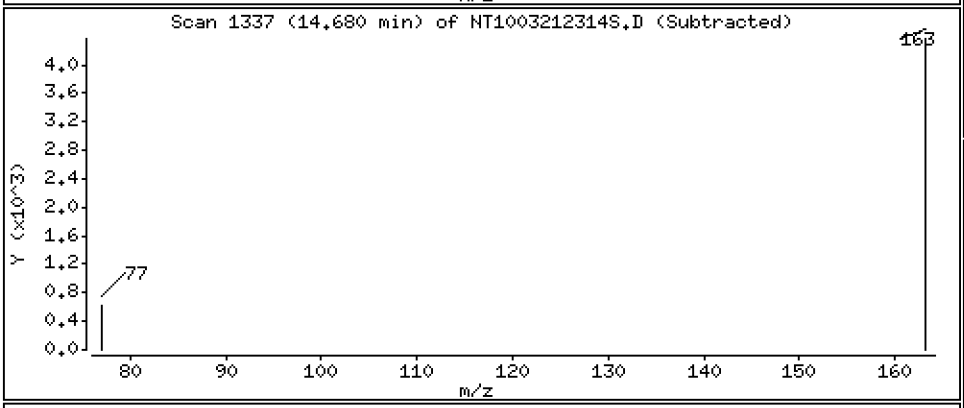
Column diameter: 0.25

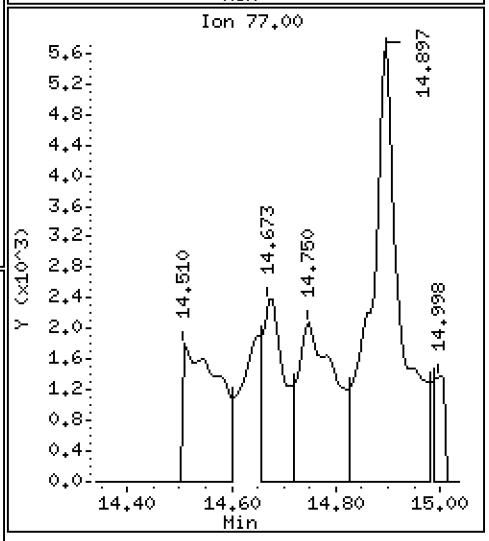
39 Dimethylphthalate

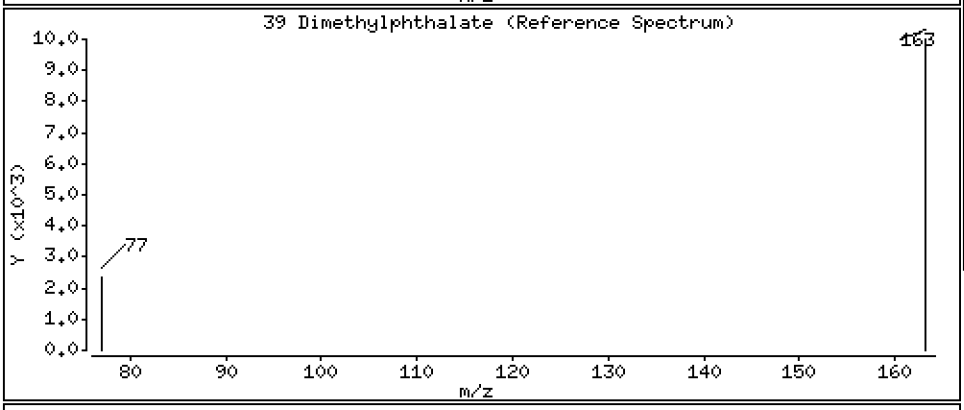
Concentration: 0.05921 ug/L

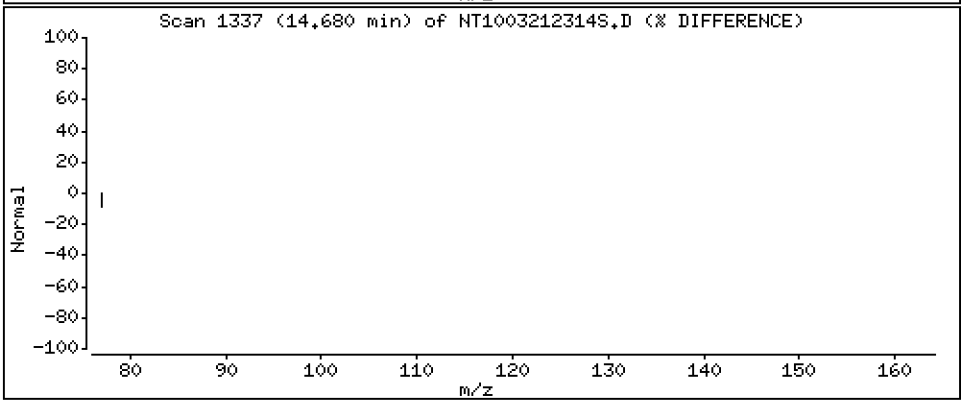












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212314S.D

Date : 22-MAR-2023 01:30

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-05

Volume Injected (uL): 1.0

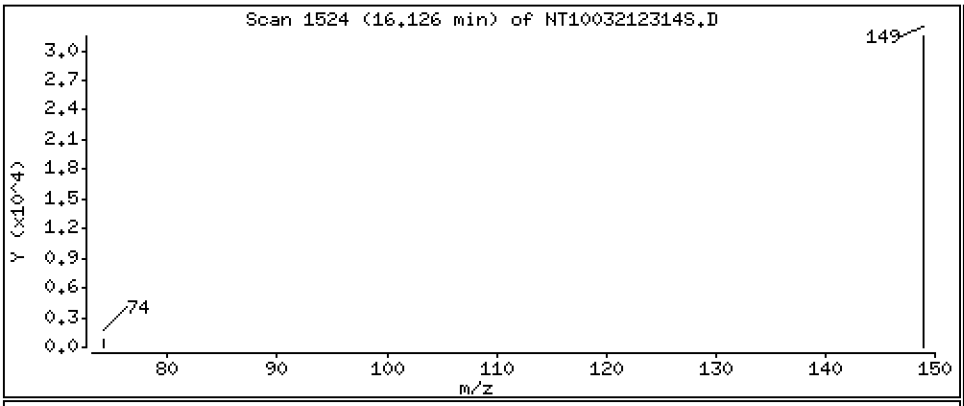
Operator: JGR

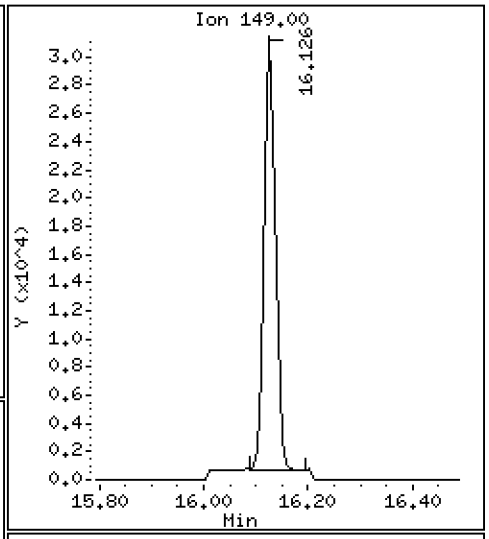
Column phase: ZB-5msi

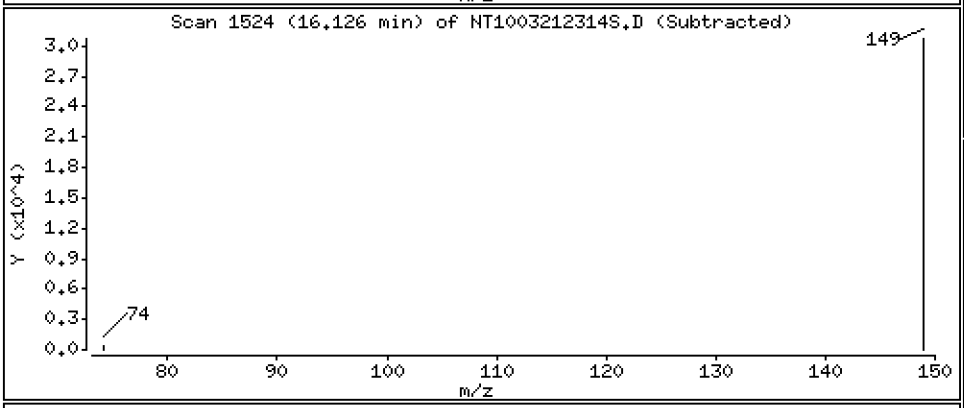
Column diameter: 0.25

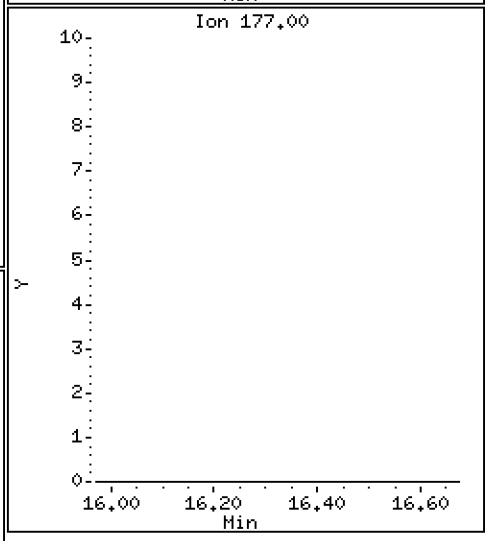
50 Diethylphthalate

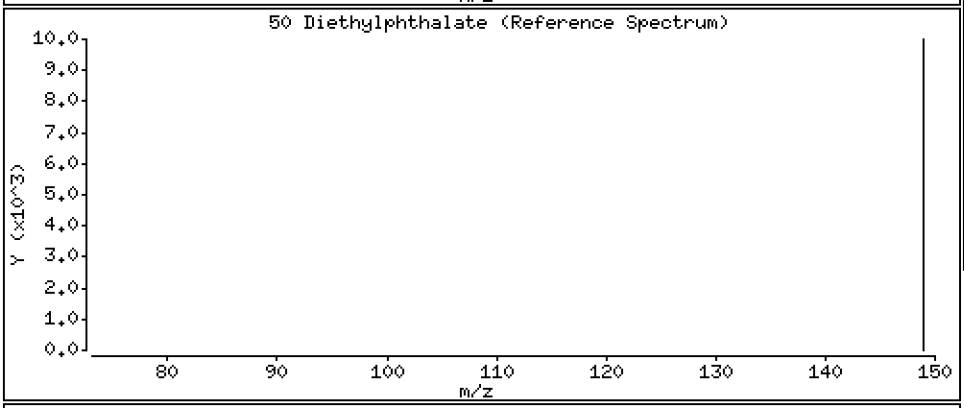
Concentration: 0.3617 ug/L

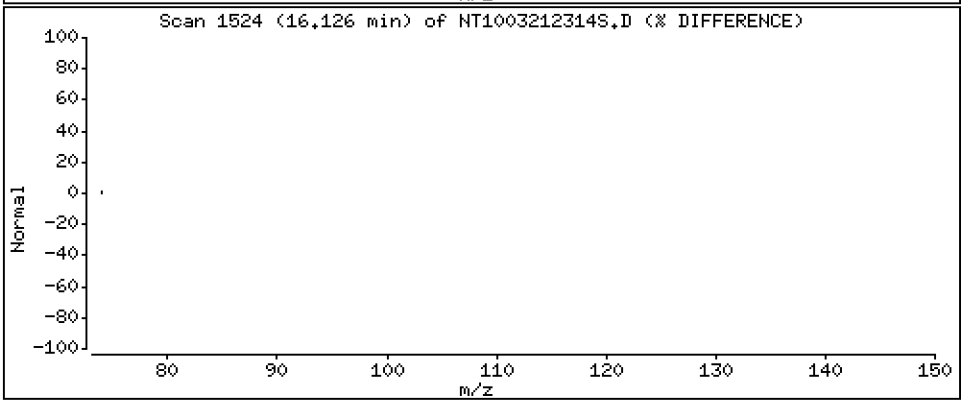












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212314S.D

Date : 22-MAR-2023 01:30

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-05

Volume Injected (uL): 1.0

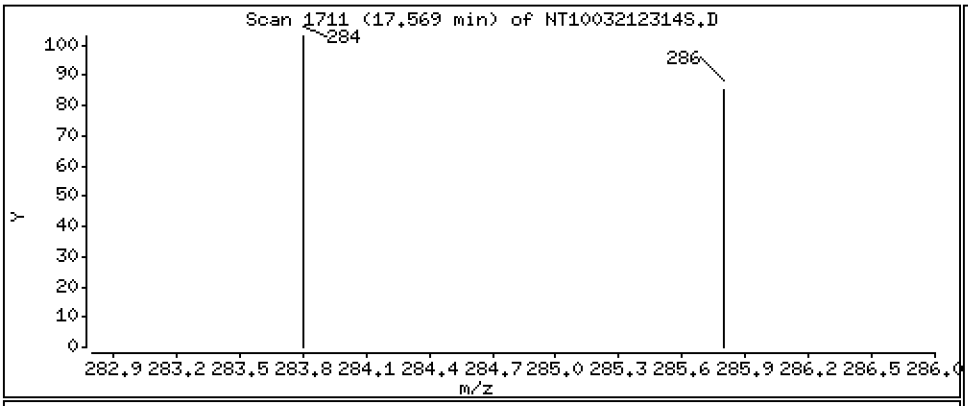
Operator: JGR

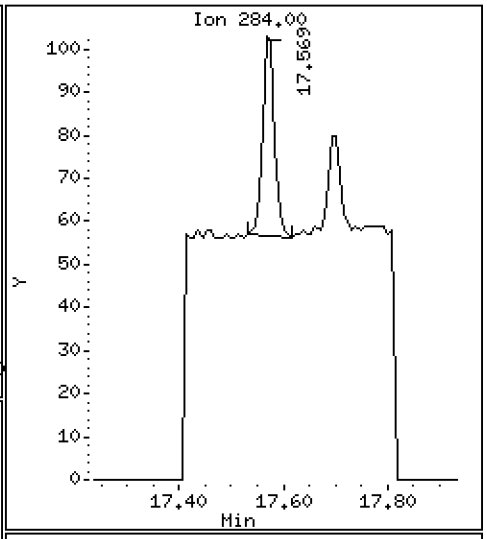
Column phase: ZB-5msi

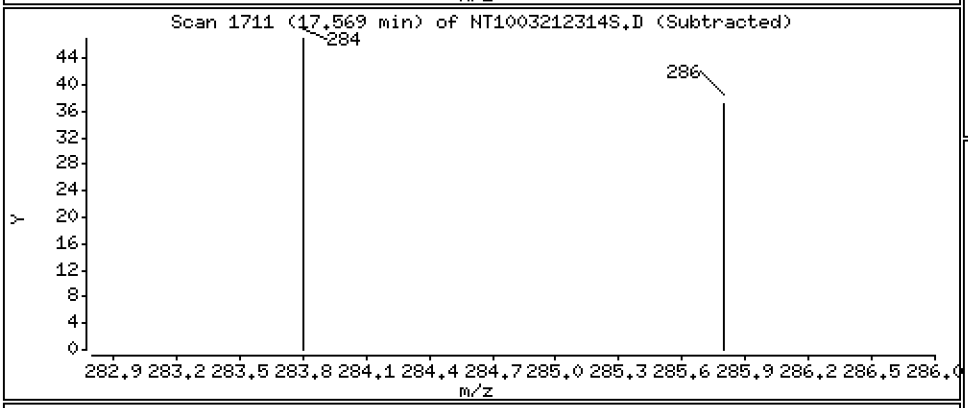
Column diameter: 0.25

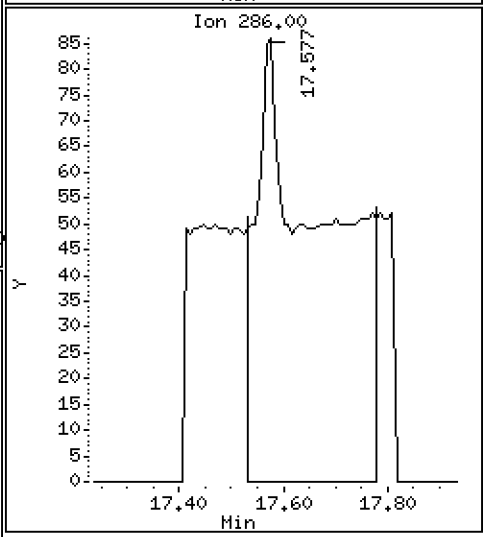
57 Hexachlorobenzene

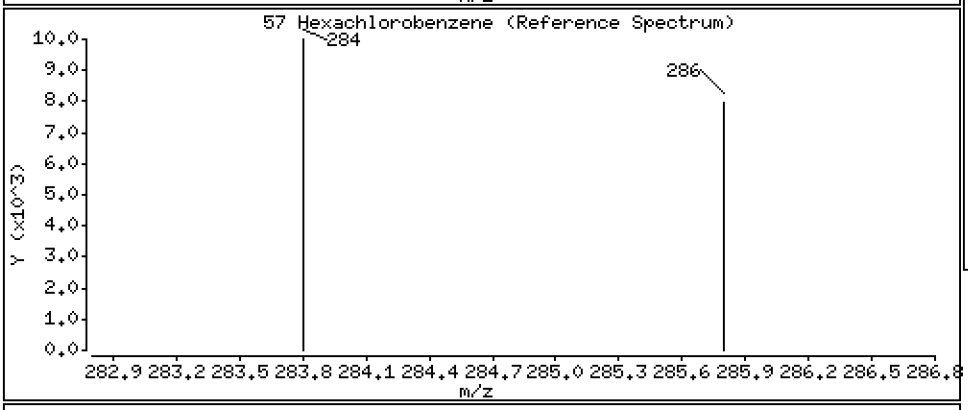
Concentration: 0.001593 ug/L

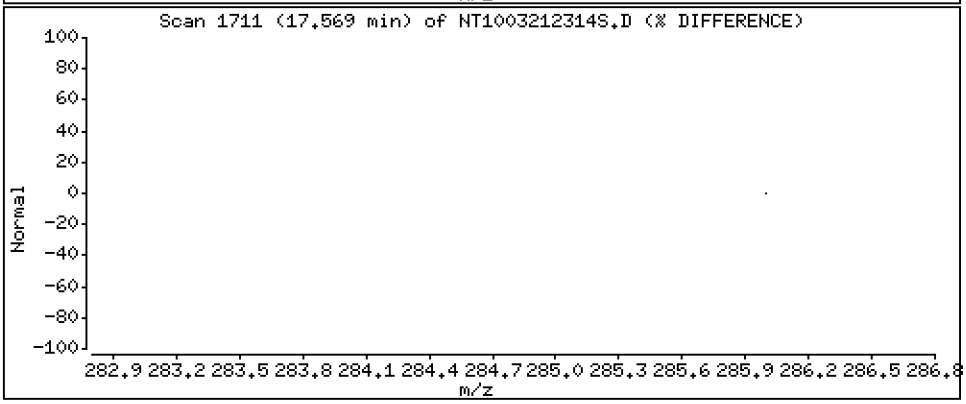












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212314S.D

Date : 22-MAR-2023 01:30

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-05

Volume Injected (uL): 1.0

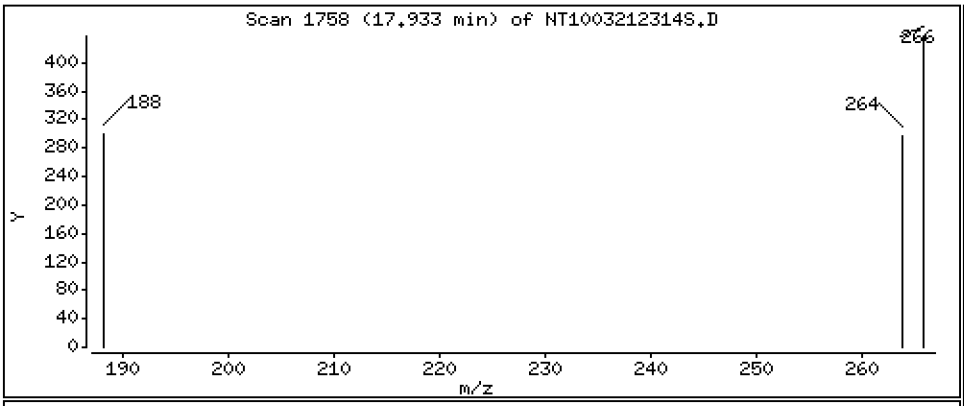
Operator: JGR

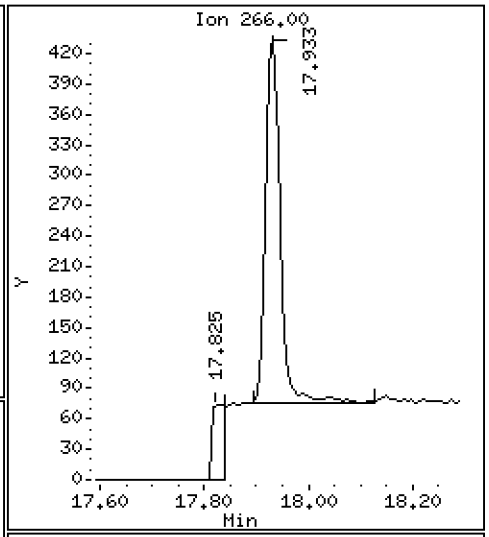
Column phase: ZB-5msi

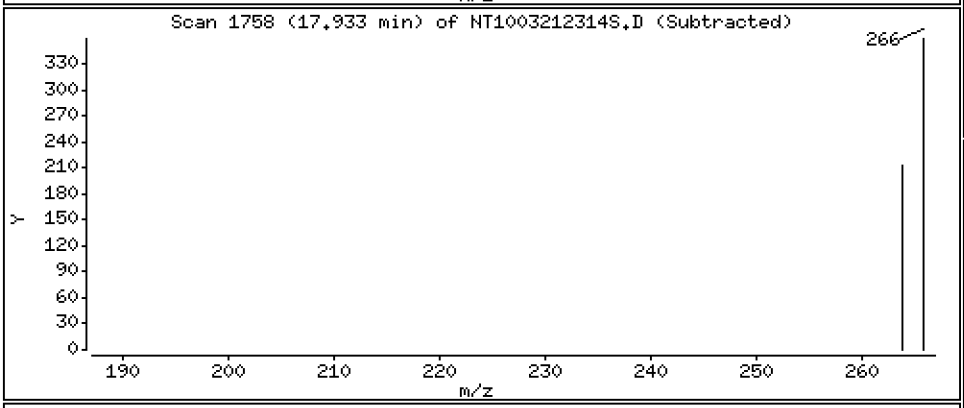
Column diameter: 0.25

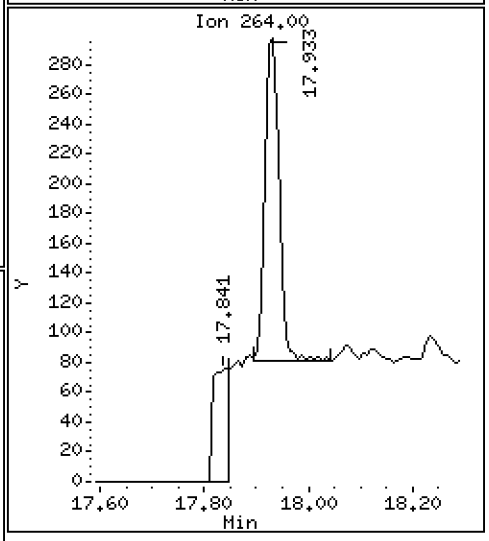
58 Pentachlorophenol

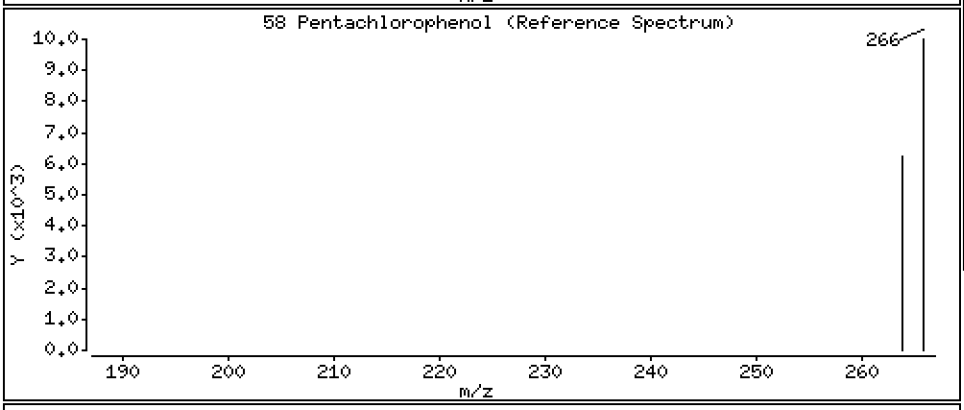
Concentration: 0.02693 ug/L

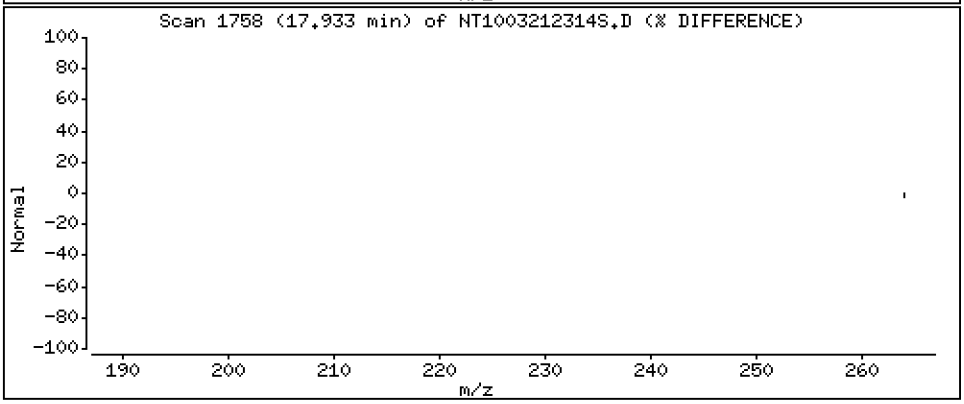












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212314S.D

Date : 22-MAR-2023 01:30

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-05

Volume Injected (uL): 1.0

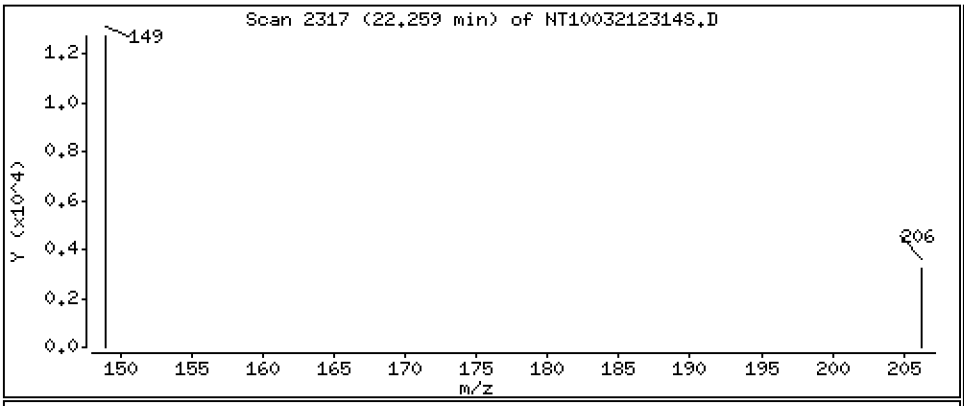
Operator: JGR

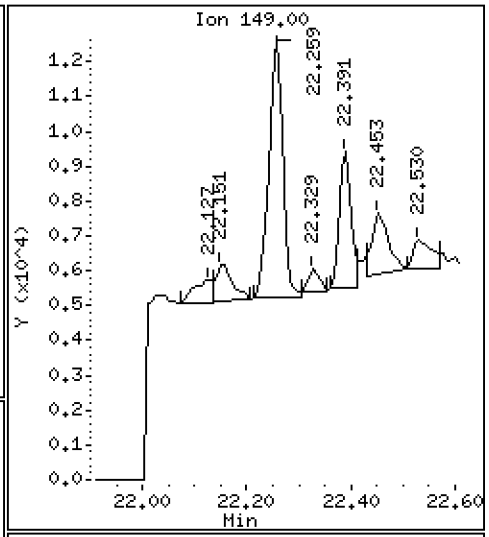
Column phase: ZB-5msi

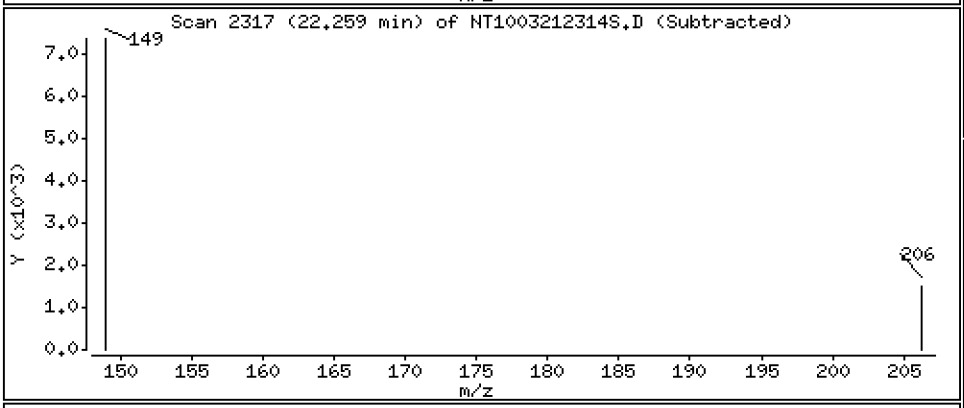
Column diameter: 0.25

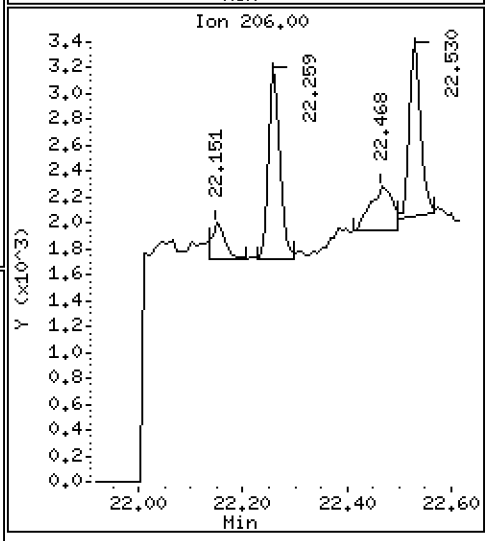
67 Butylbenzylphthalate

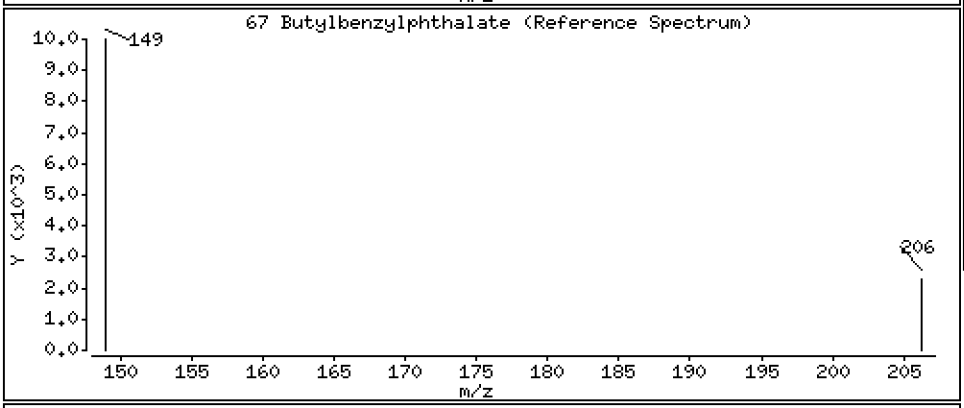
Concentration: 0.1406 ug/L

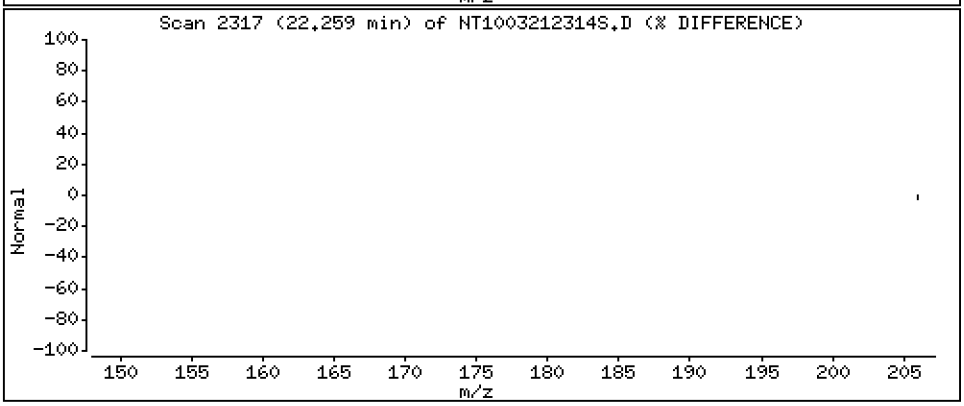












Date : 22-MAR-2023 01:30

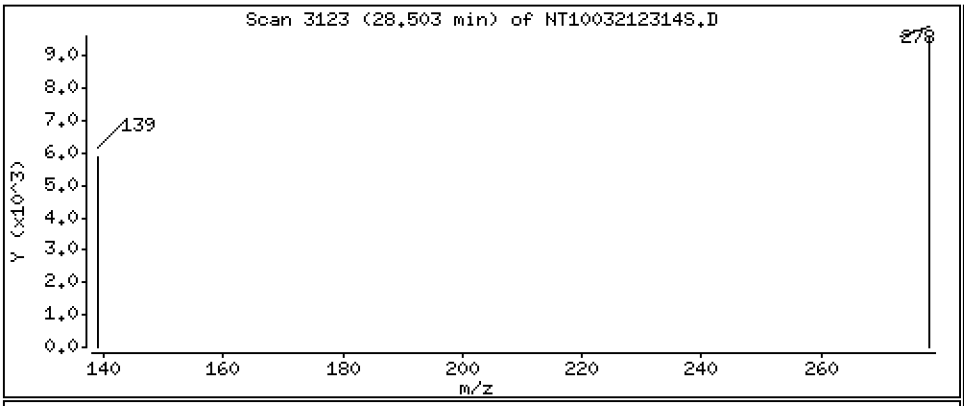
Client ID: Instrument: nt10.i

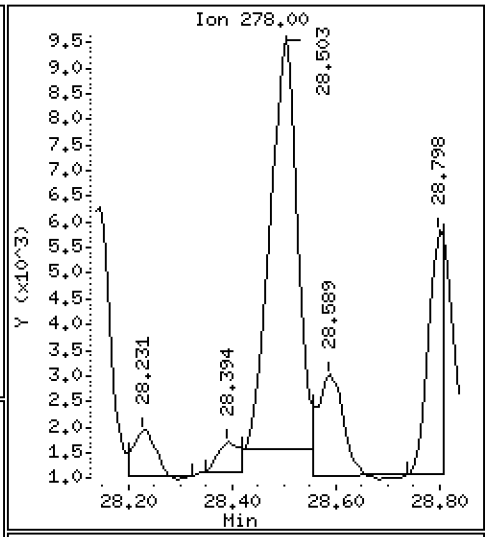
Sample Info: 23C0071-05

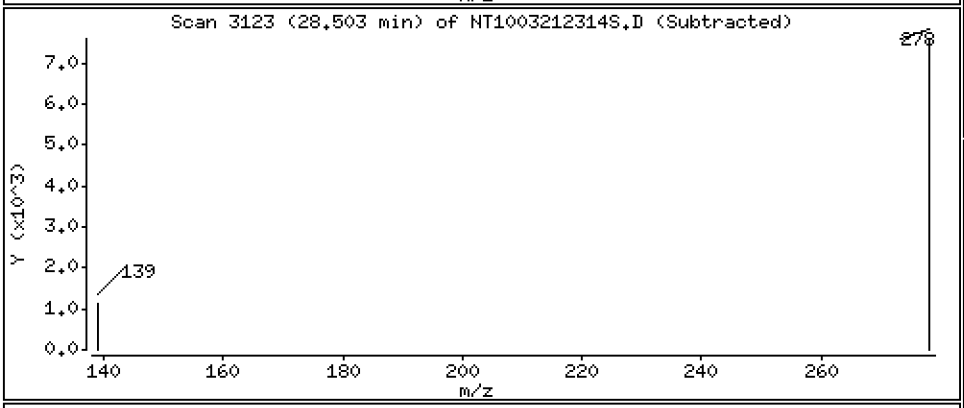
Volume Injected (uL): 1.0 Operator: JGR

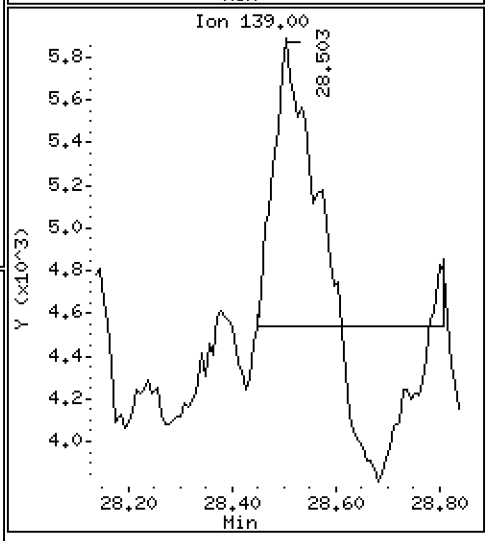
Column phase: ZB-5msi Column diameter: 0.25

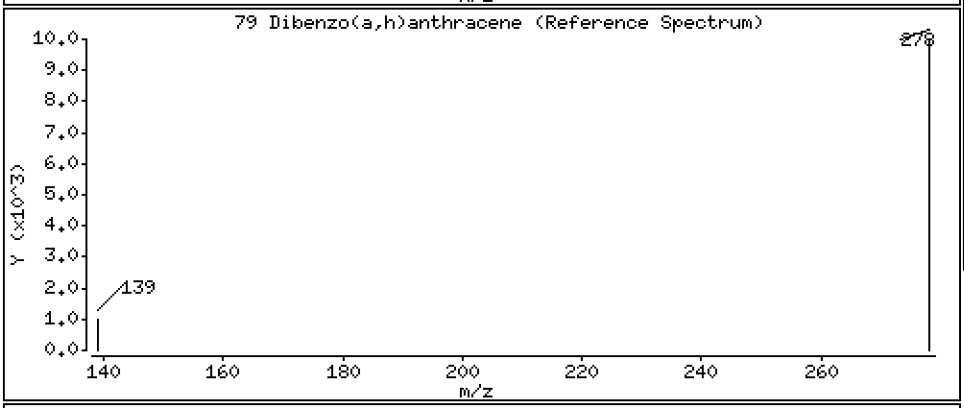
79 Dibenzo(a,h)anthracene Concentration: 0.1055 ug/L

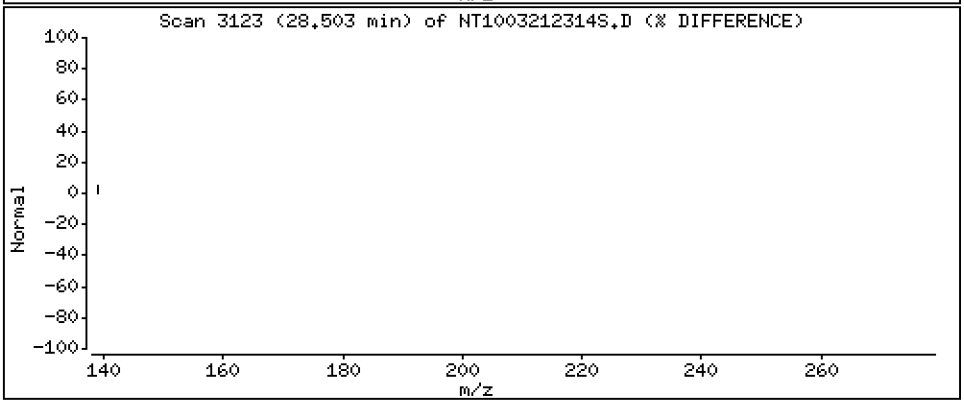












ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212314S.D
Lab Smp Id: 23C0071-05
Inj Date : 22-MAR-2023 01:30 MS Autotune Date: 16-JAN-2023 17:42
Operator : JGR Inst ID: nt10.i
Smp Info : 23C0071-05
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230321.b\20230321.b\SIMABN2.m
Meth Date : 29-Mar-2023 09:55 van Quant Type: ISTD
Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
$ 1	2-Fluorophenol	112	6.887	6.895	(0.757)	376860	5.68983	5.690(R)
3	Phenol	94	8.486	8.494	(0.933)	19949	0.21954	0.2195
7	1,3-Dichlorobenzene	146	9.035	9.043	(0.993)	601	0.00707	0.007068(M)
* 8	1,4-Dichlorobenzene-d4	152	9.097	9.105	(1.000)	218417	4.00000	
9	1,4-Dichlorobenzene	146	9.128	9.136	(1.003)	1165	0.01419	0.01419(M)
11	Benzyl alcohol	79	9.369	9.377	(1.030)	31908	0.60569	0.6057
12	1,2-Dichlorobenzene	146	9.485	9.493	(1.043)	738	0.00914	0.009142
13	2-Methylphenol	108	9.602	9.602	(1.055)	1643	0.02609	0.02609
15	4-Methylphenol	108	9.866	9.874	(1.084)	6515	0.09958	0.09958
16	N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
22	2,4-Dimethylphenol	107	10.906	10.914	(0.943)	1249	0.01869	0.01869(M)
24	Benzoic acid	105	11.016	11.042	(0.952)	40294	1.09858	1.099(M)
26	1,2,4-Trichlorobenzene	180	11.485	11.500	(0.993)	359	0.00534	0.005341(M)
* 27	Naphthalene-d8	136	11.570	11.585	(1.000)	773035	4.00000	
30	Hexachlorobutadiene	225	11.971	11.987	(1.035)	169	0.00414	0.004135(M)
39	Dimethylphthalate	163	14.680	14.695	(0.968)	7035	0.05921	0.05921
* 42	Acenaphthene-d10	162	15.167	15.183	(1.000)	376491	4.00000	
50	Diethylphthalate	149	16.126	16.141	(1.063)	44522	0.36173	0.3617
54	N-Nitrosodiphenylamine	169	Compound Not Detected.					
57	Hexachlorobenzene	284	17.569	17.584	(0.966)	73	0.00159	0.001593(M)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
58	Pentachlorophenol	266	17.933	17.941	(0.986)	681	0.02693	0.02693
* 59	Phenanthrene-d10	188	18.196	18.196	(1.000)	762766	4.00000	
$ 66	Terphenyl-d14	244	21.329	21.337	(0.918)	525344	4.60425	4.604(R)
67	Butylbenzylphthalate	149	22.259	22.259	(0.958)	12953	0.14056	0.1406
* 69	Chrysene-d12	240	23.234	23.234	(1.000)	700274	4.00000	
* 77	Perylene-d12	264	25.851	25.836	(1.000)	844593	4.00000	
79	Dibenzo(a,h)anthracene	278	28.503	28.487	(1.103)	29236	0.10549	0.1055
90	N-Nitrosodimethylamine	74	Compound Not Detected.					

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1003212314S.D
Lab Smp Id: 23C0071-05
Analysis Type: SV
Quant Type: ISTD
Operator: JGR
Method File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\SIMABN2.m
Misc Info:

Calibration Date: 21-MAR-2023
Calibration Time: 18:25
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	162628	81314	325256	218417	34.30
27 Naphthalene-d8	580280	290140	1160560	773035	33.22
42 Acenaphthene-d10	297255	148628	594510	376491	26.66
59 Phenanthrene-d10	561093	280547	1122186	762766	35.94
69 Chrysene-d12	498827	249414	997654	700274	40.38
77 Perylene-d12	558480	279240	1116960	844593	51.23

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.11	8.61	9.61	9.10	-0.09
27 Naphthalene-d8	11.59	11.09	12.09	11.57	-0.13
42 Acenaphthene-d10	15.18	14.68	15.68	15.17	-0.10
59 Phenanthrene-d10	18.20	17.70	18.70	18.20	-0.00
69 Chrysene-d12	23.23	22.73	23.73	23.23	-0.00
77 Perylene-d12	25.84	25.34	26.34	25.85	0.06

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

REVIEW SUMMARY FOR FILE - NT1003212314S.D

Lab ID: 23C0071-05
nt10.i, 20230321.b\20230321.b\SIMABN2.m,   22-MAR-2023 01:30

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

RRT check based on Ccal File: 20230321.b/NT1003212303S.D

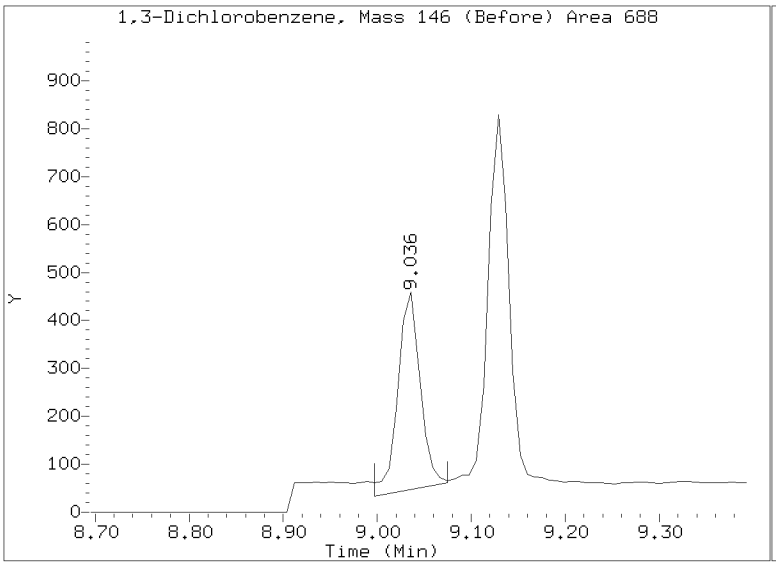
On Column LOD for nt10.i, 20230321.b\SIMABN2.m, PSDDA.sub = 0.0000

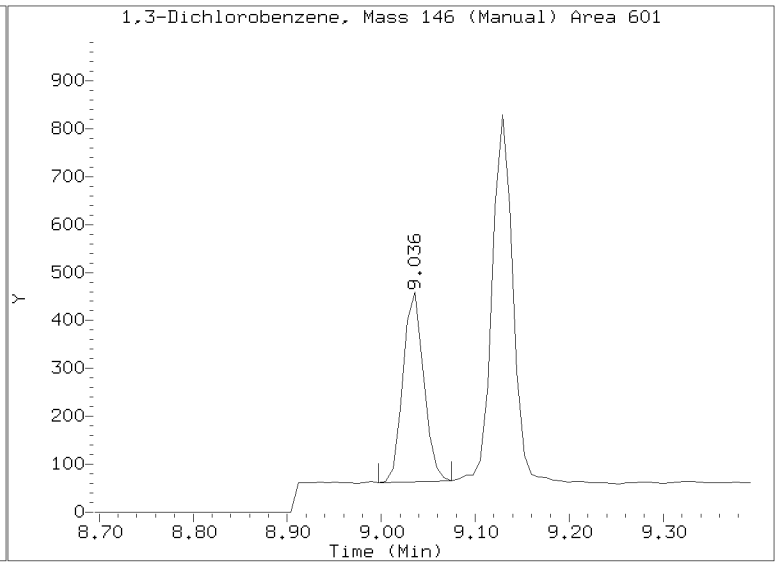
Exception: 1,2,4-Trichlorobenzene 0.0010

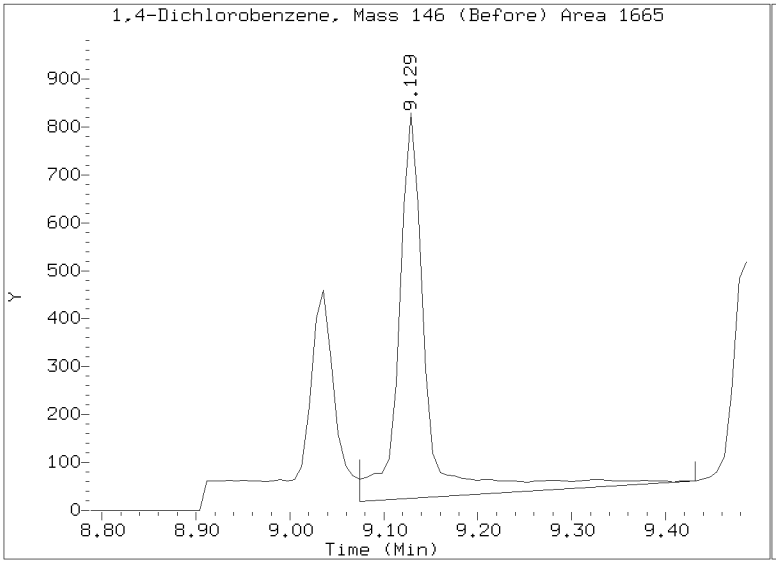
* Only compounds listed in the work order have been verified by the analyst *

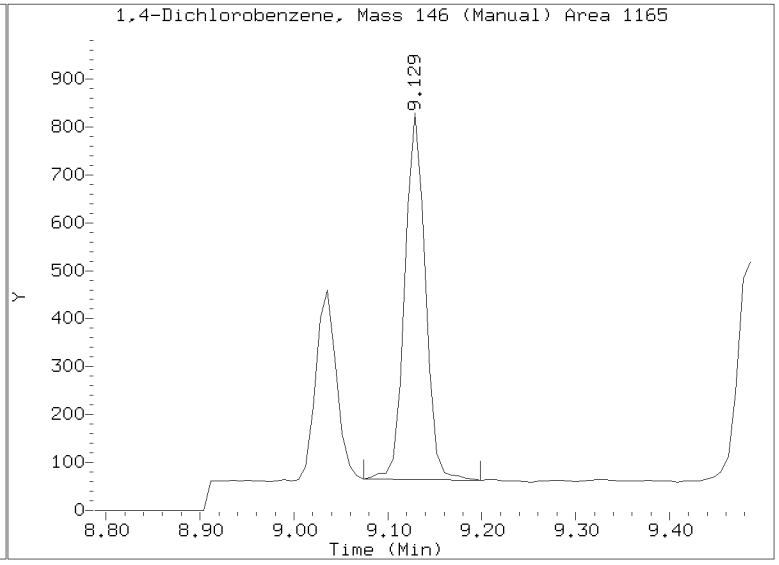
Quant Ion Manual Peak Adjustment Report

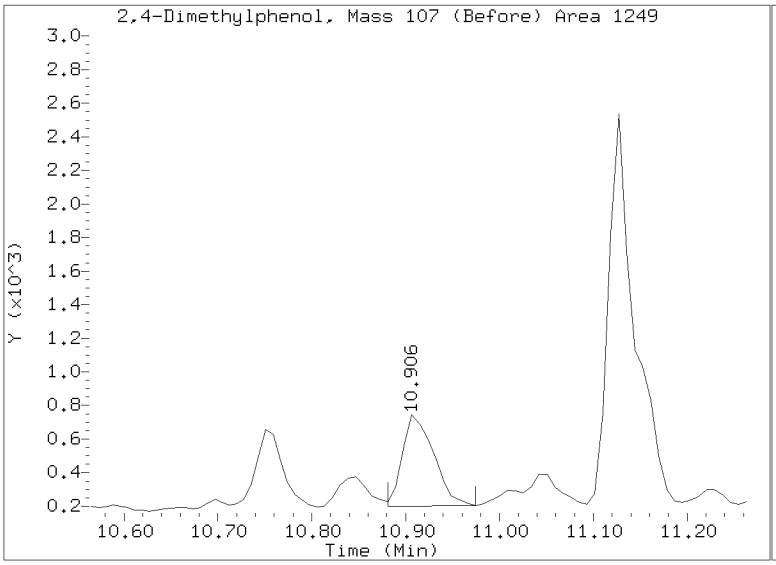
Datafile: //target/share/chem3/nt10.i/20230321.b/20230321.b/NT1003212314S.D
Injection Date: 22-MAR-2023 01:30
Lab ID:23C0071-05 Client ID:
Report Date: 03/29/2023 13:24

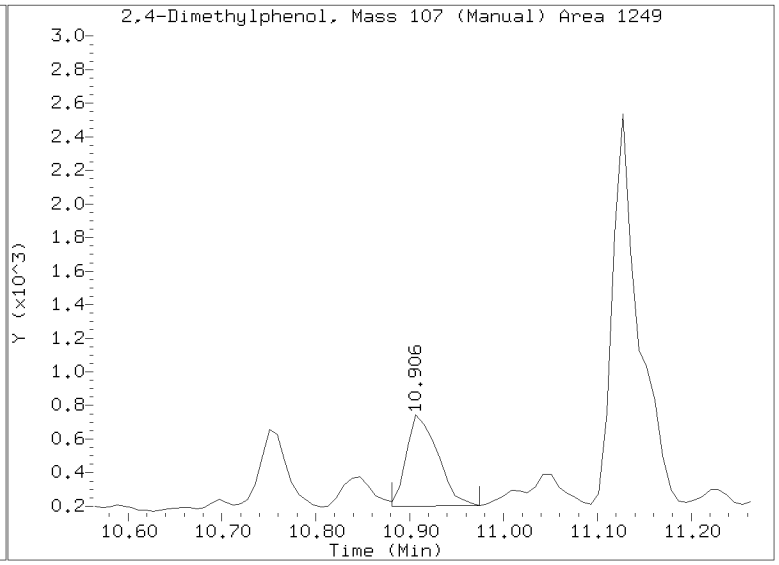












Quant Ion Manual Peak Adjustment Report

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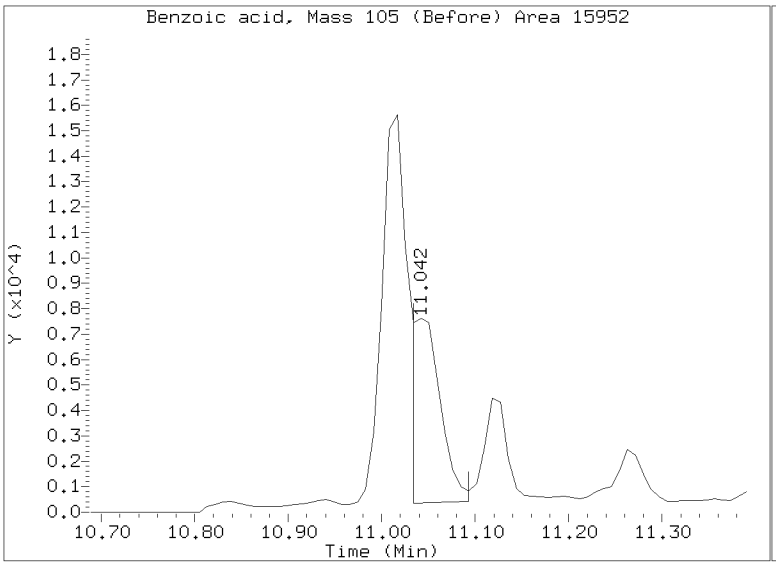
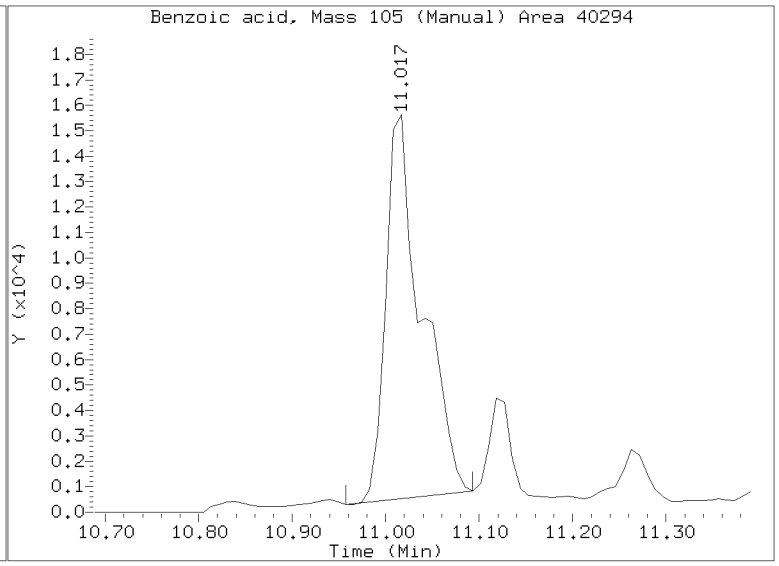
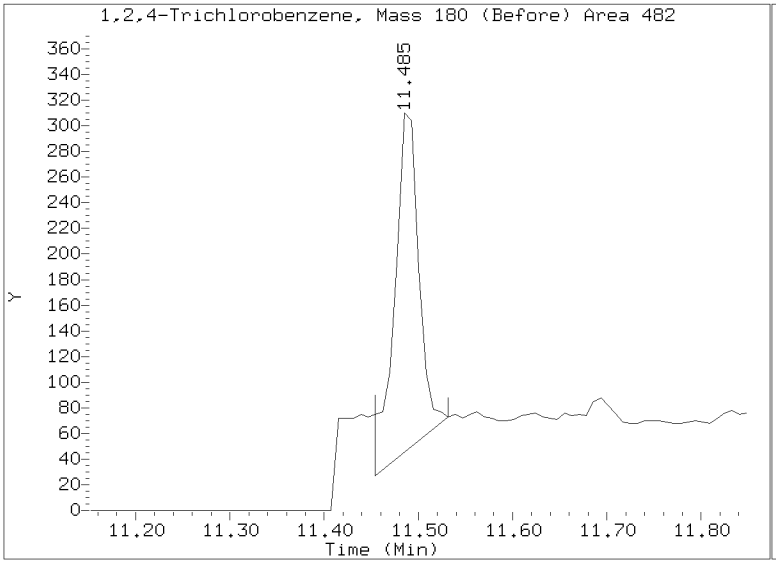
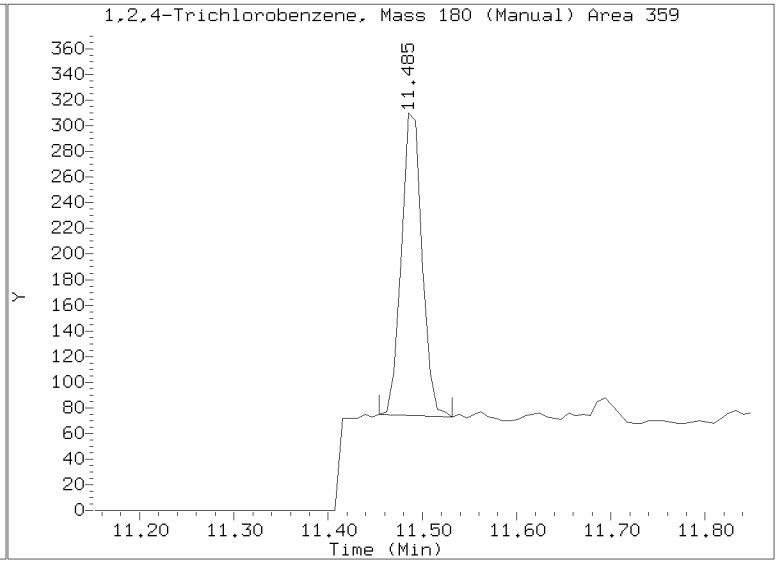
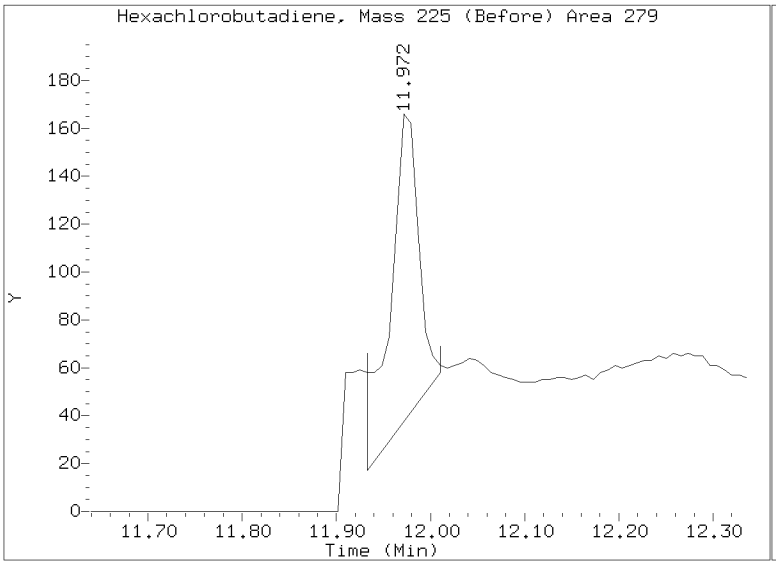
Injection Date: 22-MAR-2023 01:30
Lab ID:23C0071-05 Client ID:
Report Date: 03/29/2023 13:24

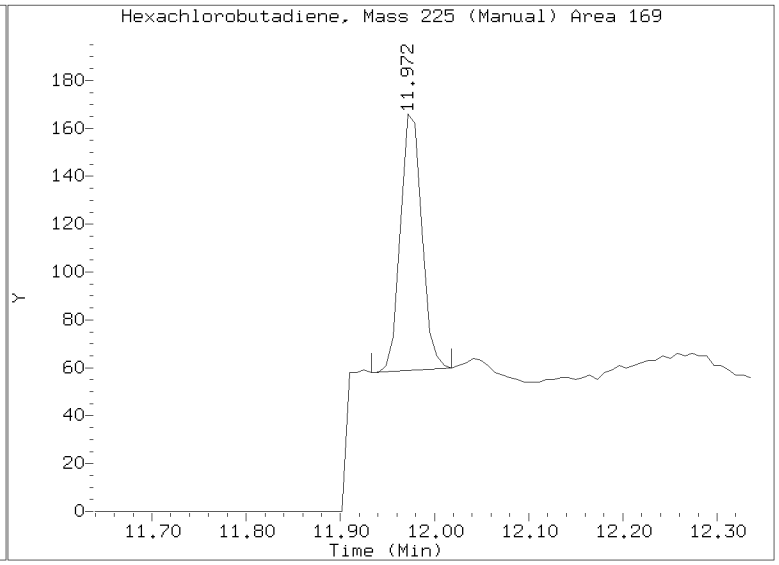






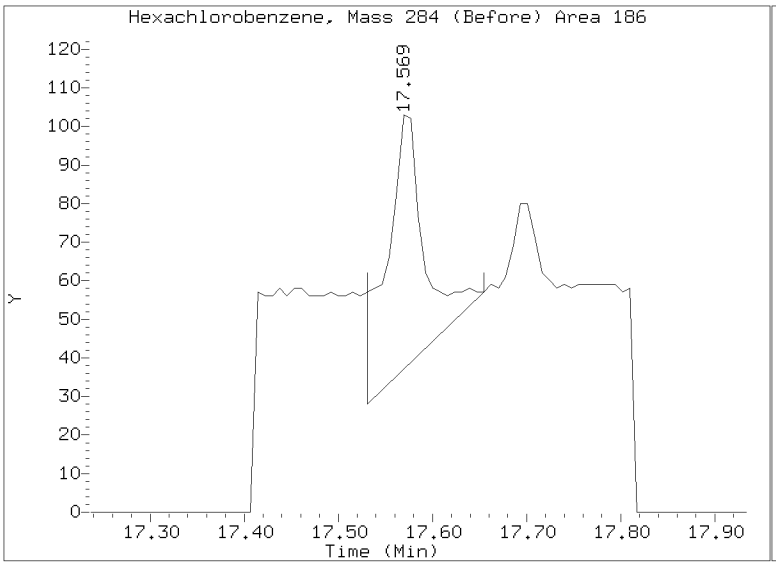


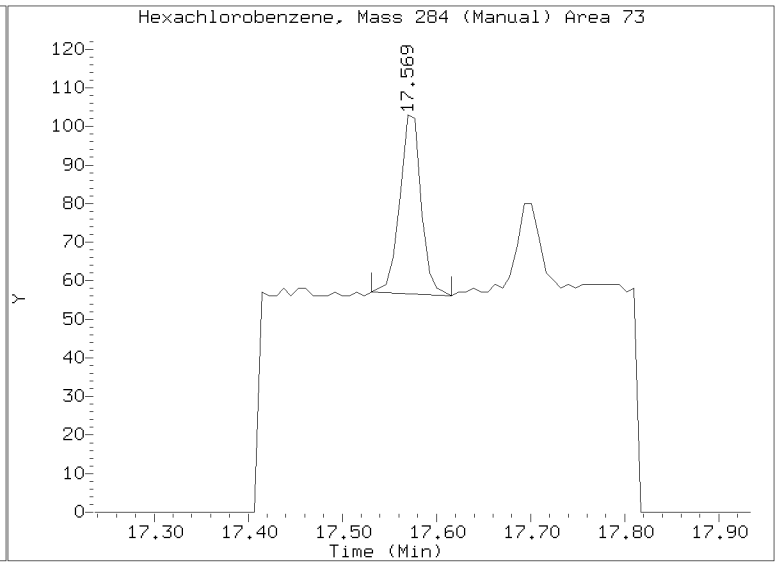




Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230321.b/20230321.b/NT1003212314S.D
Injection Date: 22-MAR-2023 01:30
Lab ID:23C0071-05 Client ID:
Report Date: 03/29/2023 13:24





Analytical Resources, LLC
Analytical Chemists and Consultants

LDW23-SS1054

Form I

ORGANIC ANALYSIS DATA SHEET

EPA 8270E-SIM

SIM SVOC Organics (Dual scan list)

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0071-06 A	SDG:	23C0071
Sampled:	03/02/23 10:41	Prepared:	03/07/23 10:21	File ID:	NT1003212317S.D
% Solids:	50.43	Preparation:	EPA 3546 (Microwave)	Analyzed:	03/22/23 03:25
Batch:	BLC0109	Sequence:	SLC0452	Initial/Final:	19.99 g Wet / 1 mL
Instrument:	NT10	Column:	ZB-5MSi	Calibration:	GC00049
Cleanups:	GPC				

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
106-46-7	1,4-Dichlorobenzene	1	2.5	J	0.6	5.0
95-50-1	1,2-Dichlorobenzene	1	0.9	J	0.7	5.0
100-51-6	Benzyl Alcohol	1	152		2.5	19.8
65-85-0	Benzoic acid	1	175		13.3	99.2
105-67-9	2,4-Dimethylphenol	1	3.9	J	2.2	19.8
120-82-1	1,2,4-Trichlorobenzene	1	5.0	U	2.7	5.0
86-30-6	N-Nitrosodiphenylamine	1	5.0	U	1.3	5.0
87-86-5	Pentachlorophenol	1	4.1	J	2.1	19.8

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
2-Fluorophenol	743.98	406	54.6	27 - 120	
p-Terphenyl-d14	495.98	449	90.5	37 - 120	

Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT10032123178.D

Date : 22-MAR-2023 03:25

Client ID:

Instrument: nt10.i

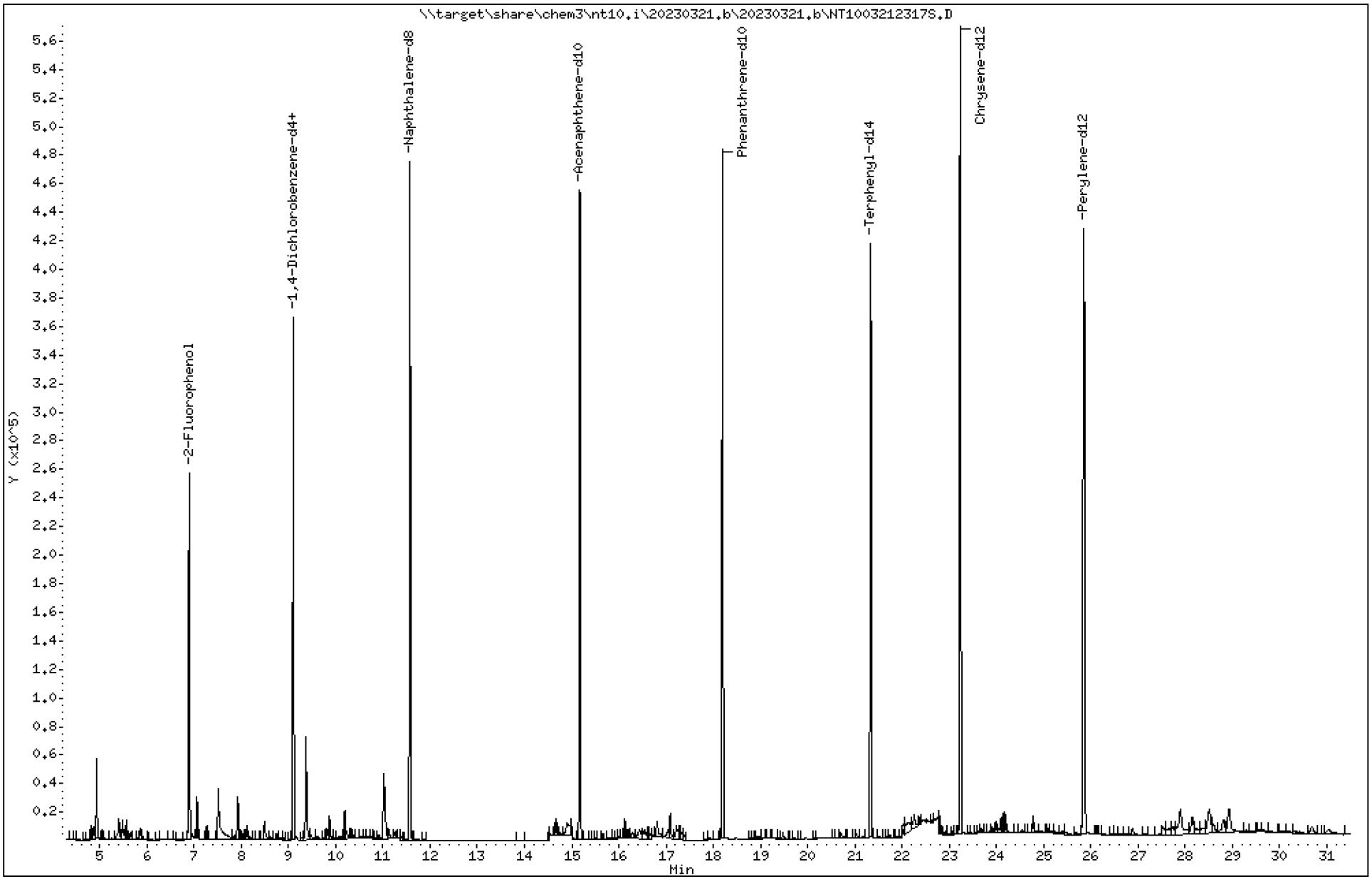
Sample Info: 23C0071-06

Volume Injected (uL): 1.0

Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25



Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212317S.D

Date : 22-MAR-2023 03:25

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-06

Volume Injected (uL): 1.0

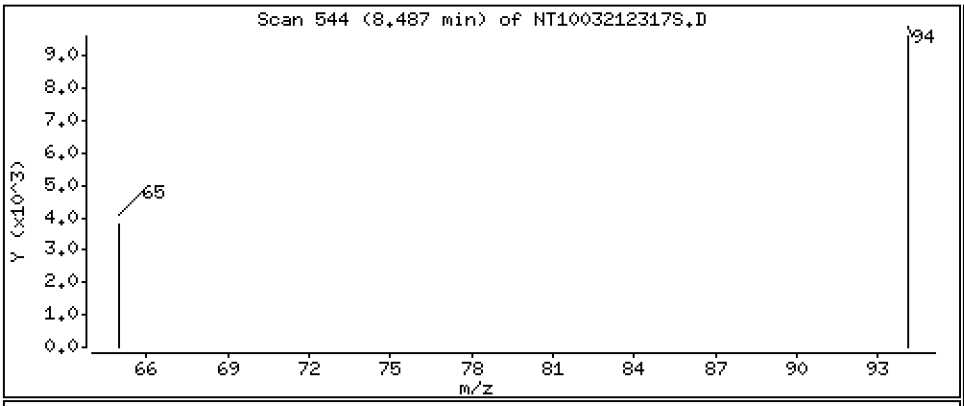
Operator: JGR

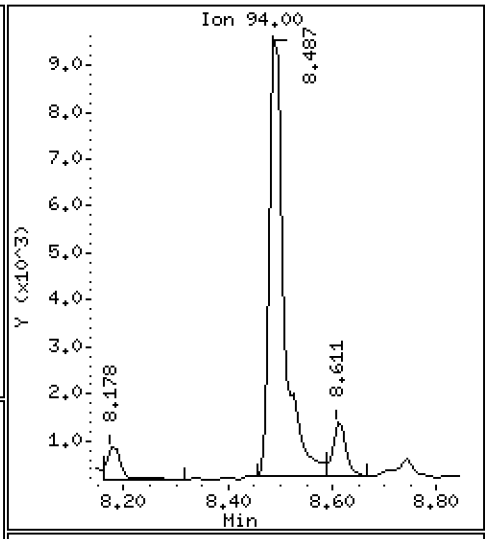
Column phase: ZB-5msi

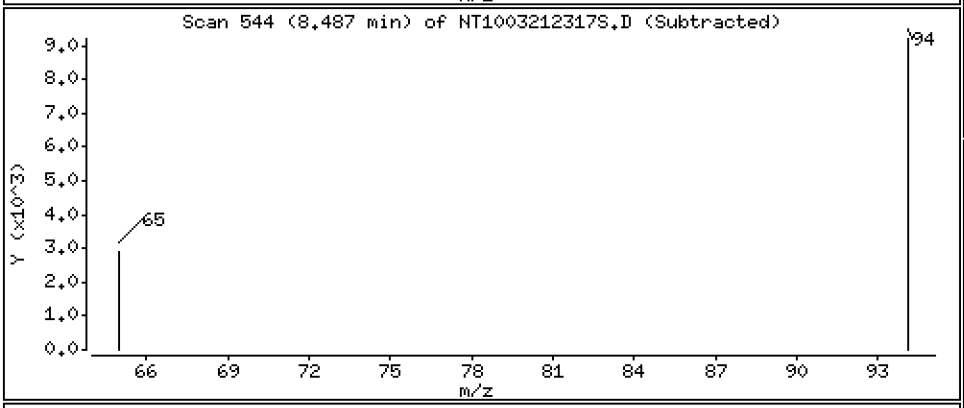
Column diameter: 0.25

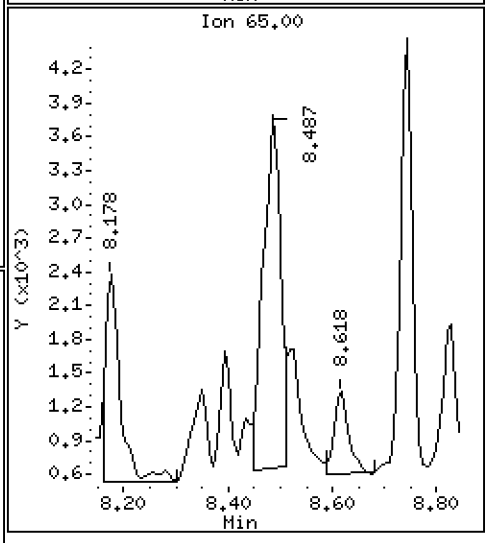
3 Phenol

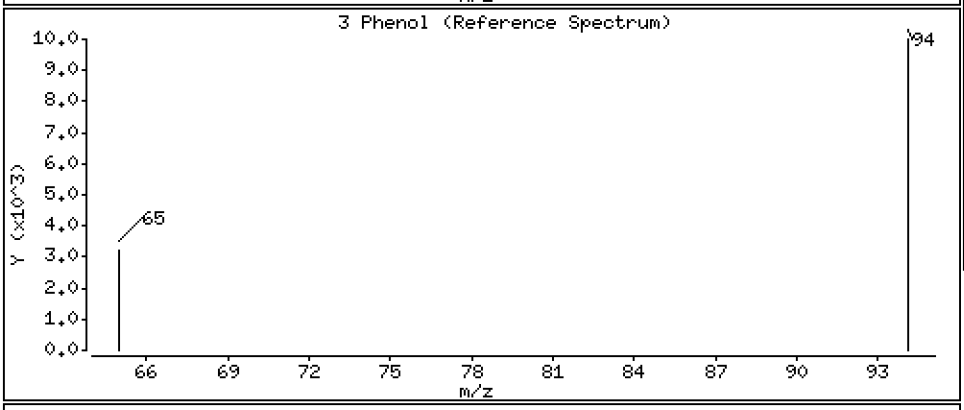
Concentration: 0.2034 ug/L

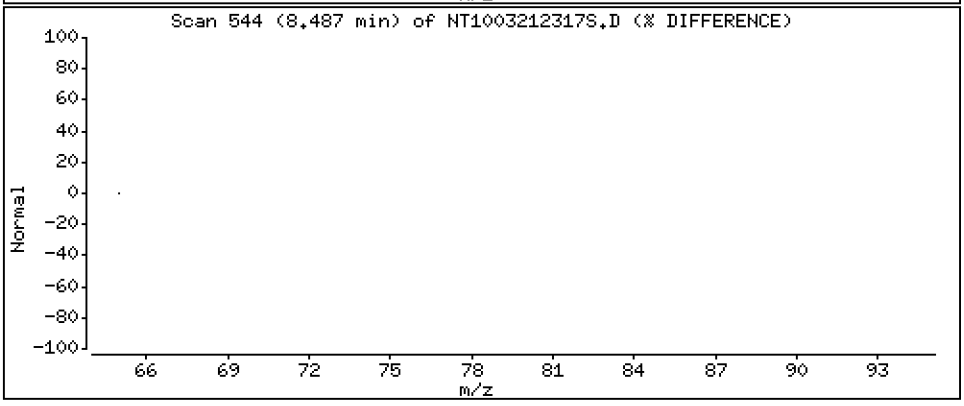












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212317S.D

Date : 22-MAR-2023 03:25

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-06

Volume Injected (uL): 1.0

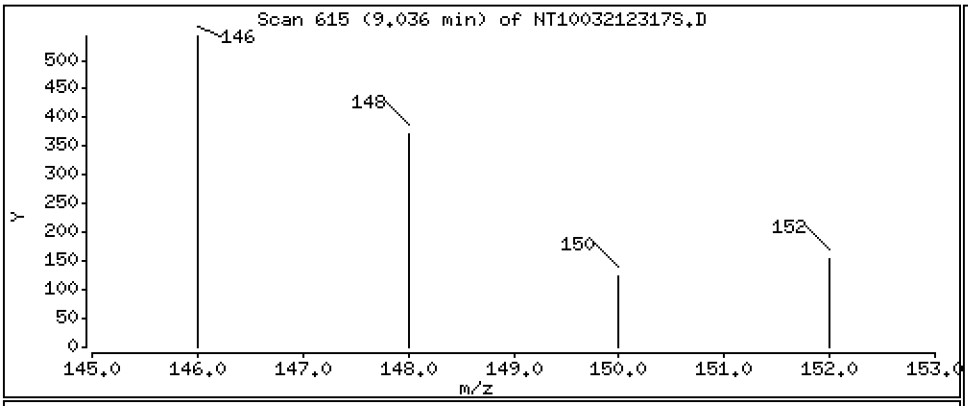
Operator: JGR

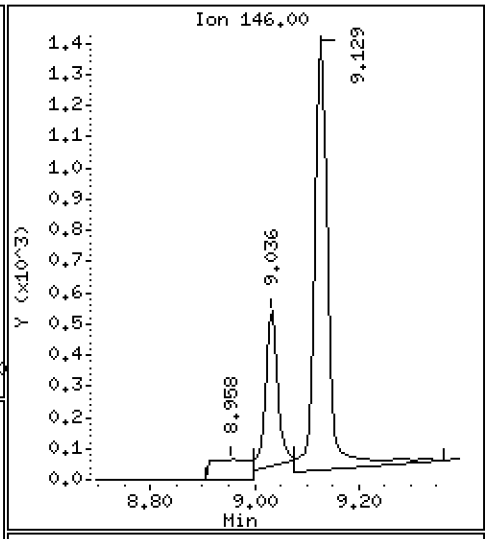
Column phase: ZB-5msi

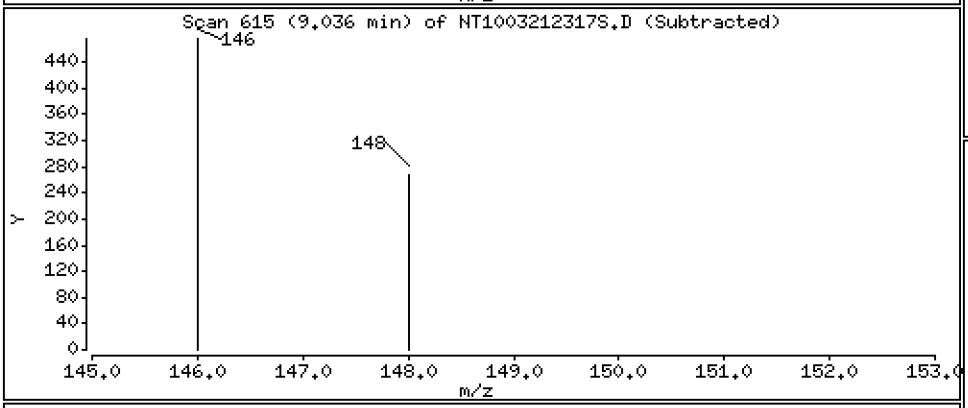
Column diameter: 0.25

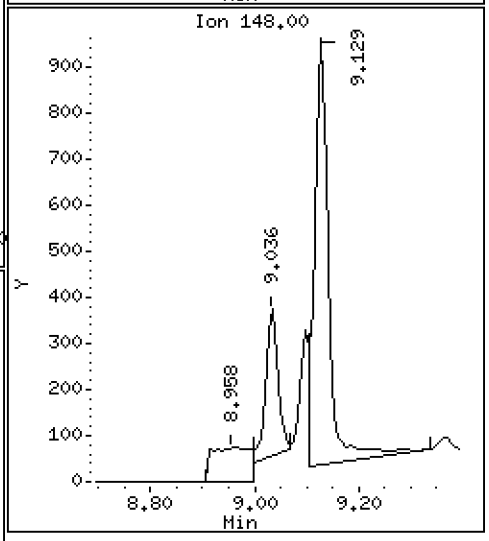
7 1,3-Dichlorobenzene

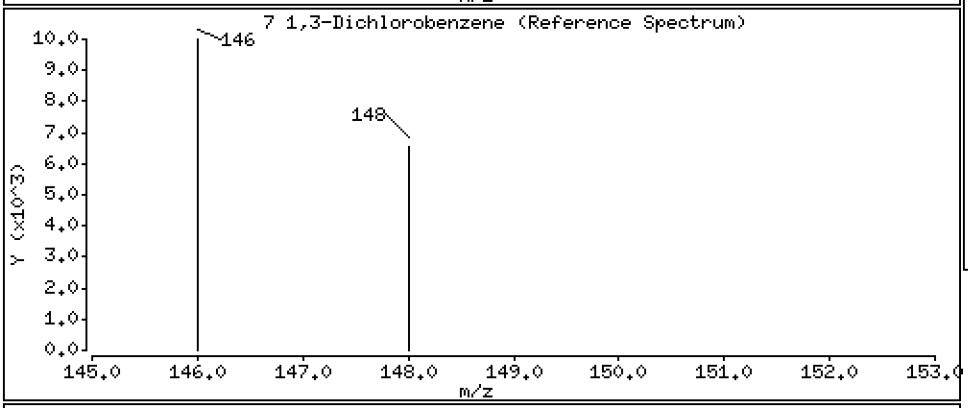
Concentration: 0.01009 ug/L

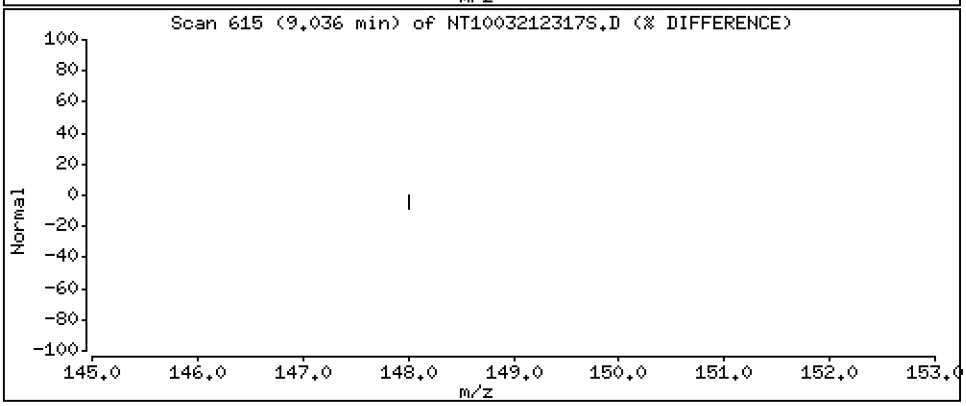












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212317S.D

Date : 22-MAR-2023 03:25

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-06

Volume Injected (uL): 1.0

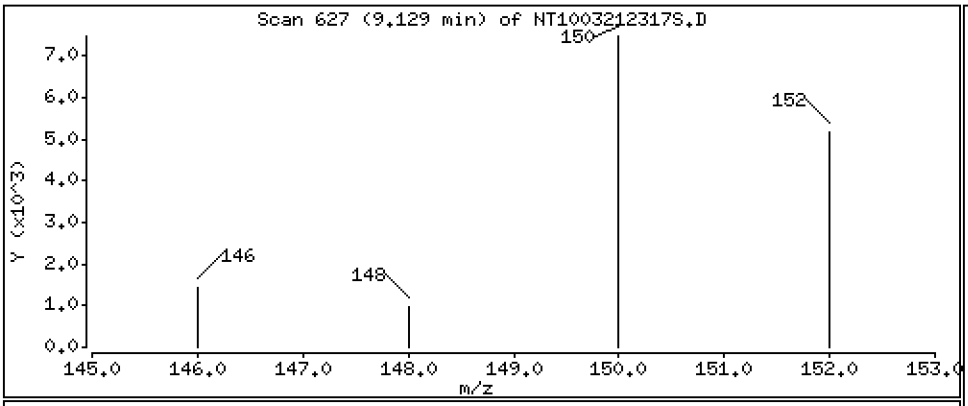
Operator: JGR

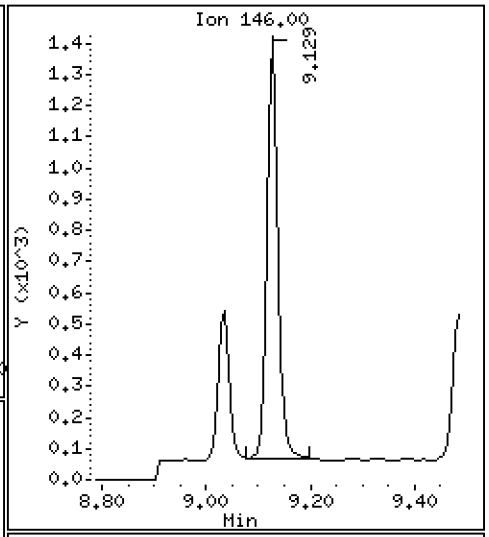
Column phase: ZB-5msi

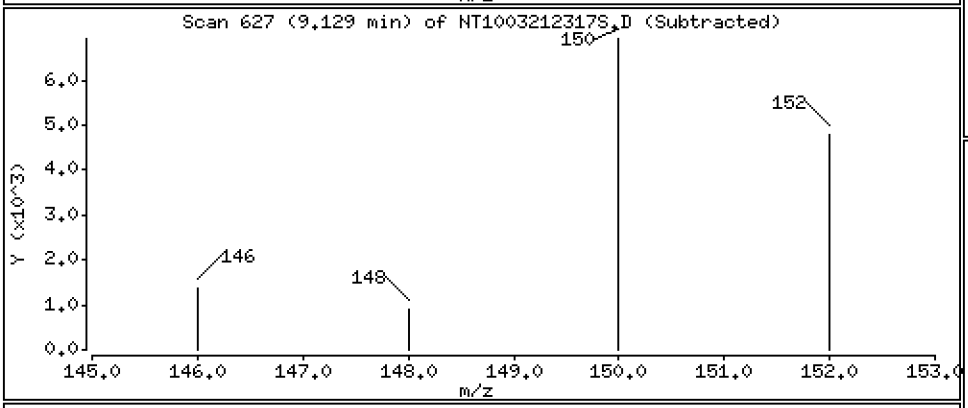
Column diameter: 0.25

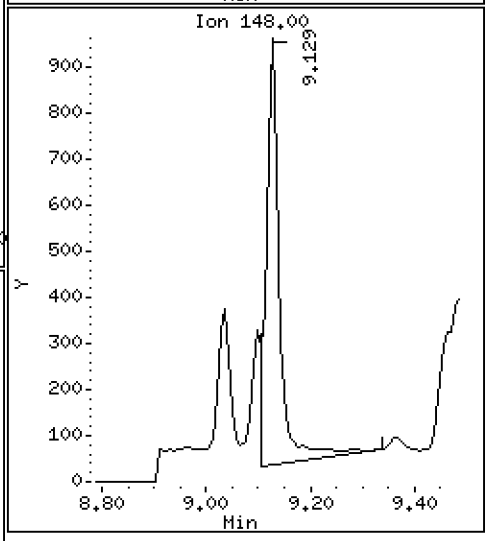
9 1,4-Dichlorobenzene

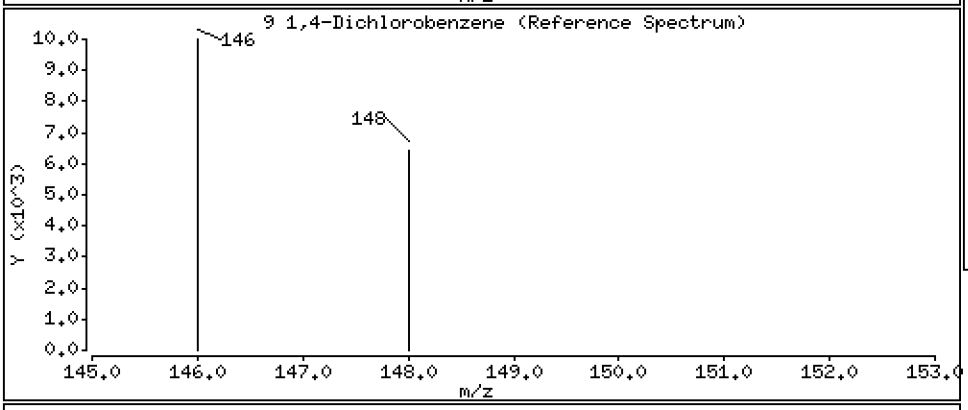
Concentration: 0.02546 ug/L

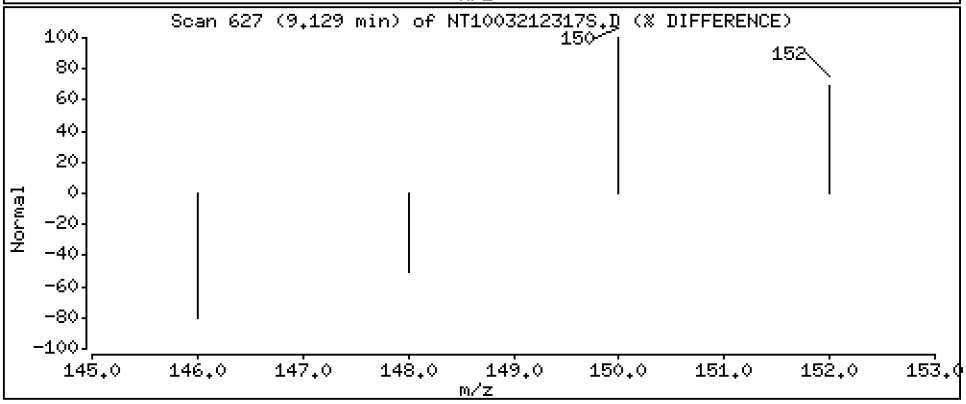












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212317S.D

Date : 22-MAR-2023 03:25

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-06

Volume Injected (uL): 1.0

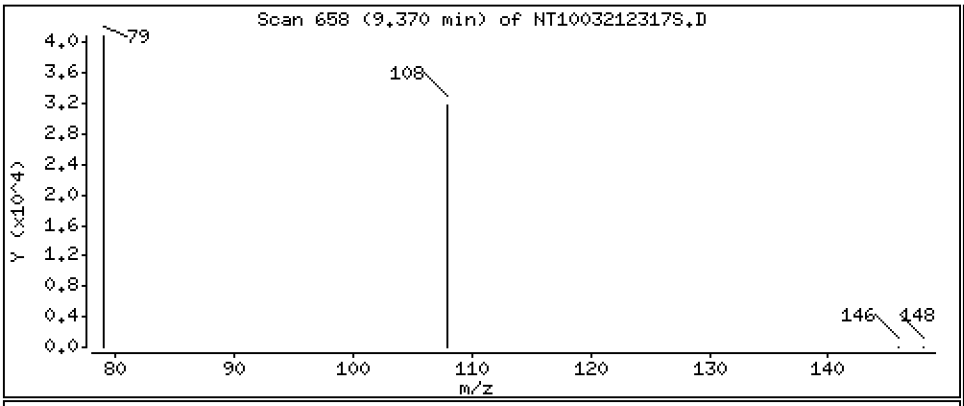
Operator: JGR

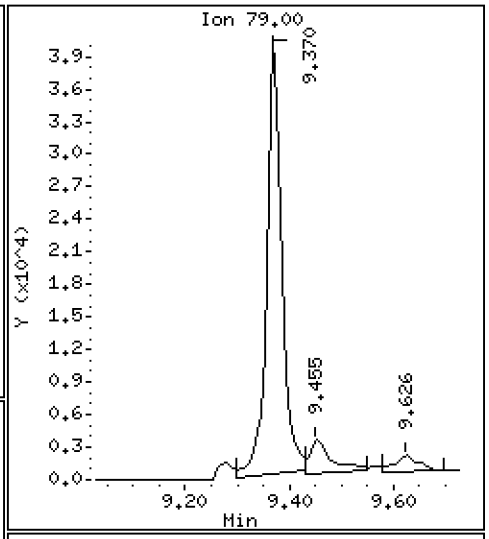
Column phase: ZB-5msi

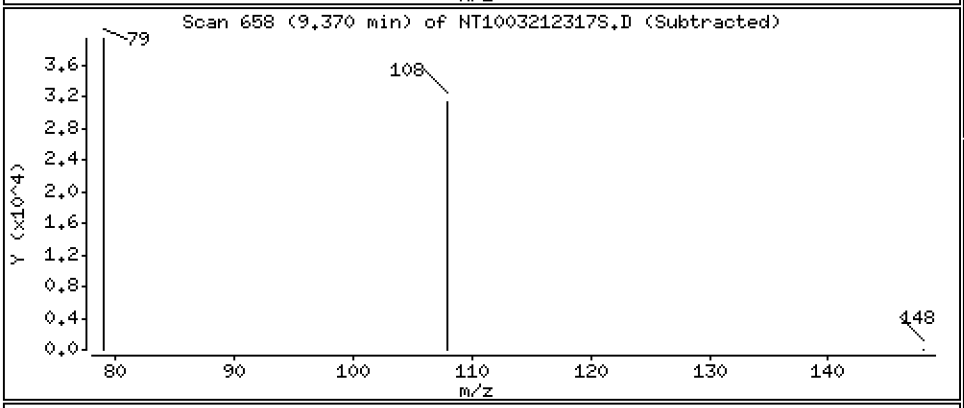
Column diameter: 0.25

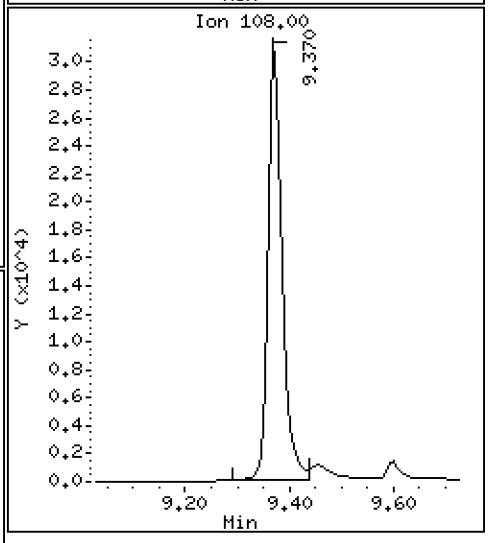
11 Benzyl alcohol

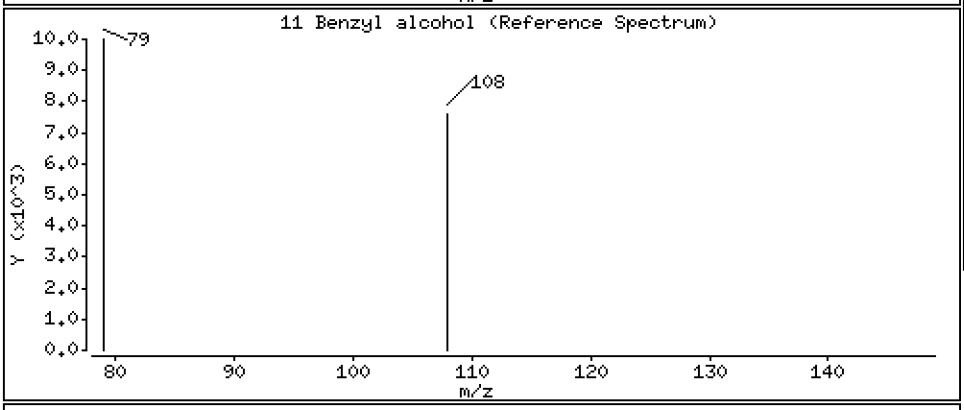
Concentration: 1.536 ug/L

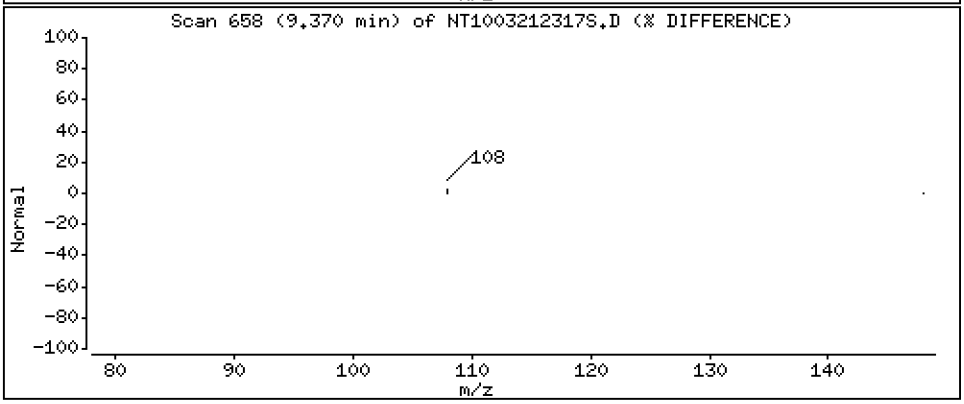












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212317S.D

Date : 22-MAR-2023 03:25

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-06

Volume Injected (uL): 1.0

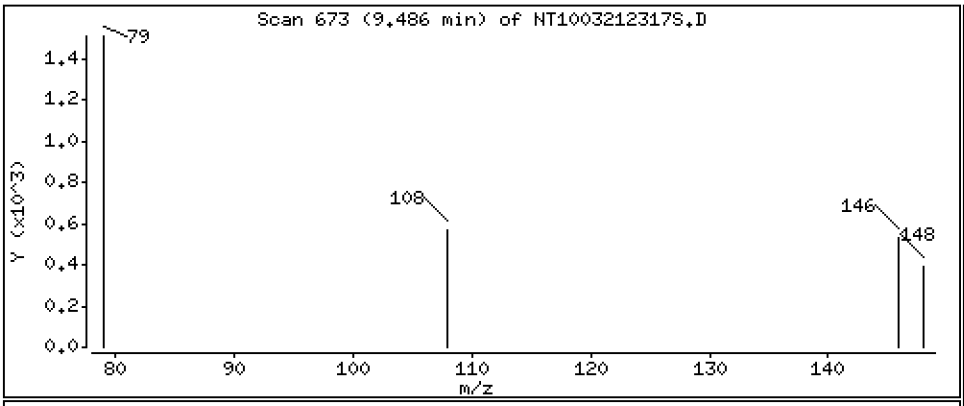
Operator: JGR

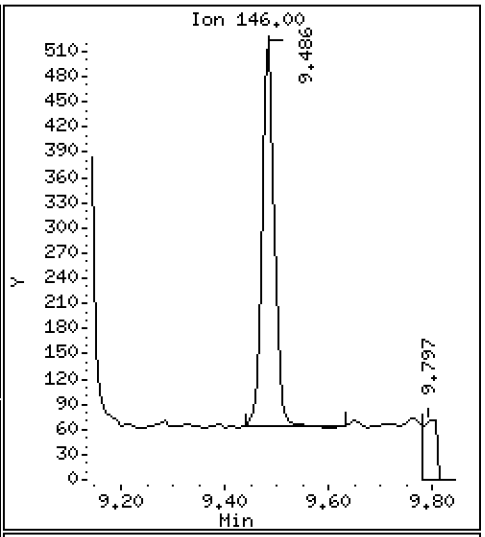
Column phase: ZB-5msi

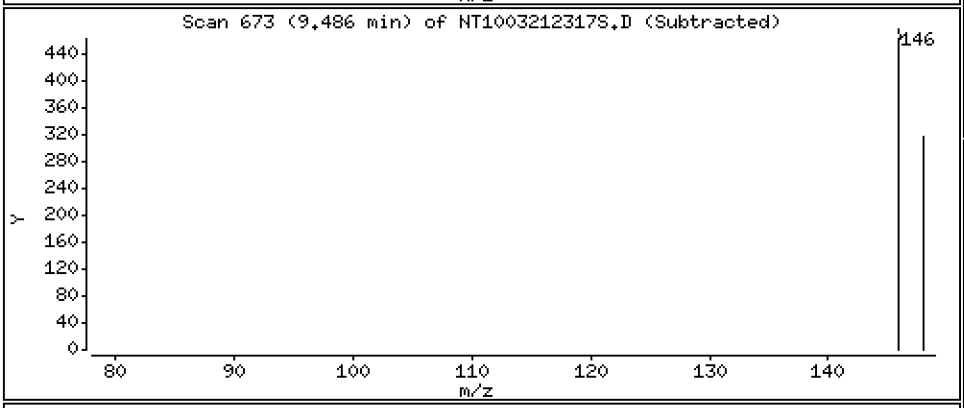
Column diameter: 0.25

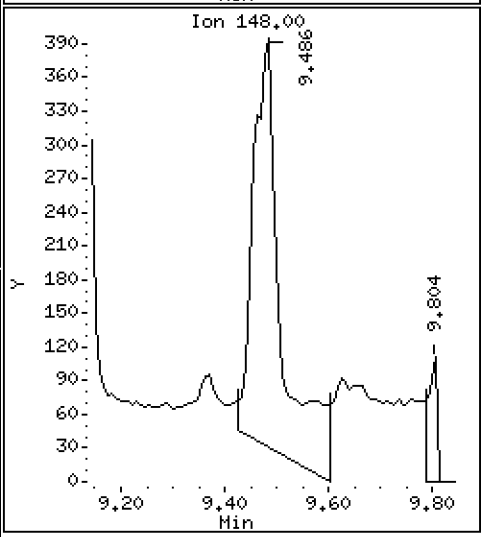
12 1,2-Dichlorobenzene

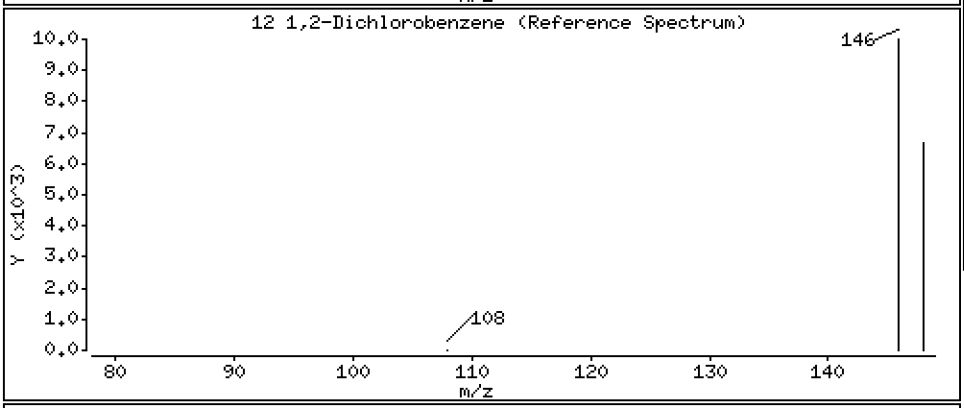
Concentration: 0.009514 ug/L

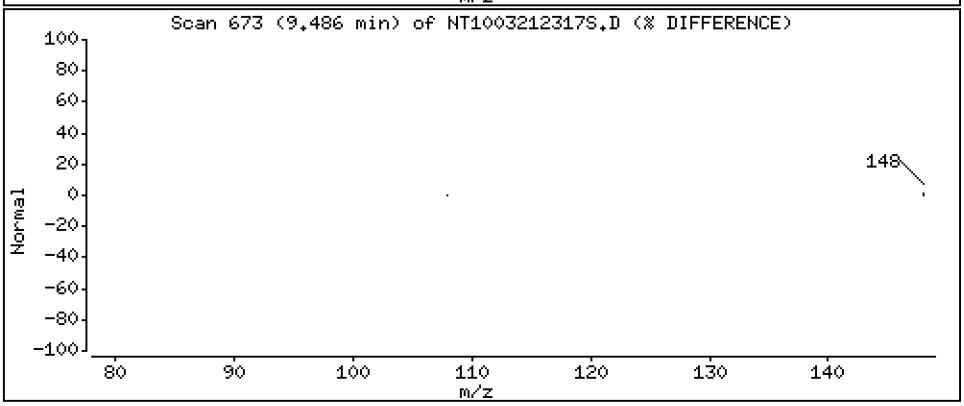












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212317S.D

Date : 22-MAR-2023 03:25

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-06

Volume Injected (uL): 1.0

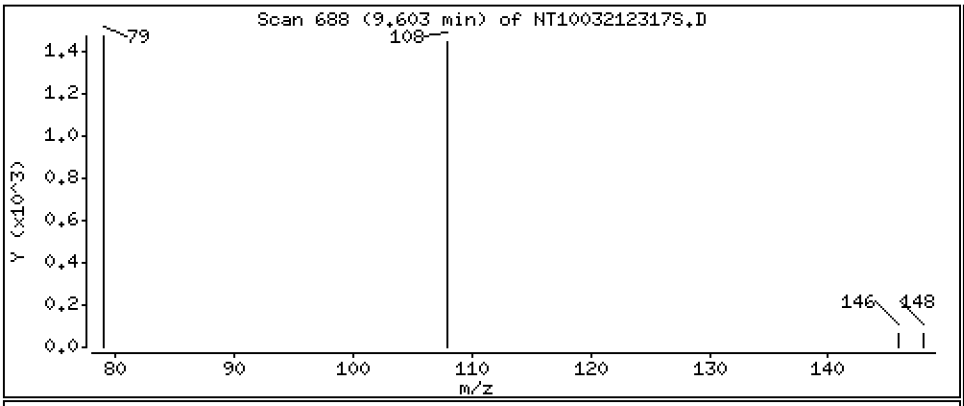
Operator: JGR

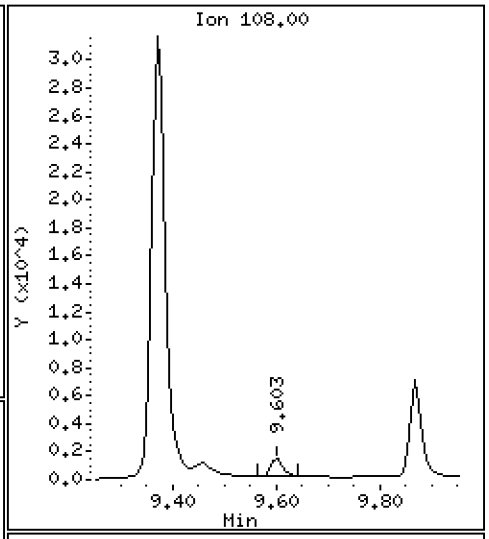
Column phase: ZB-5msi

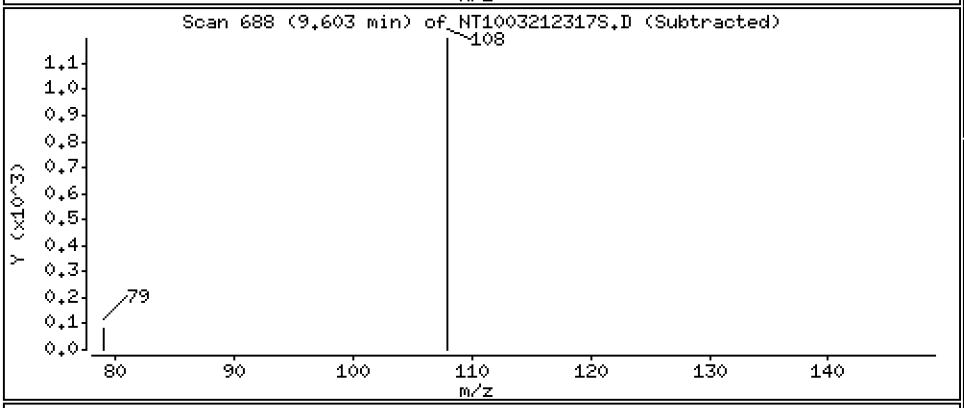
Column diameter: 0.25

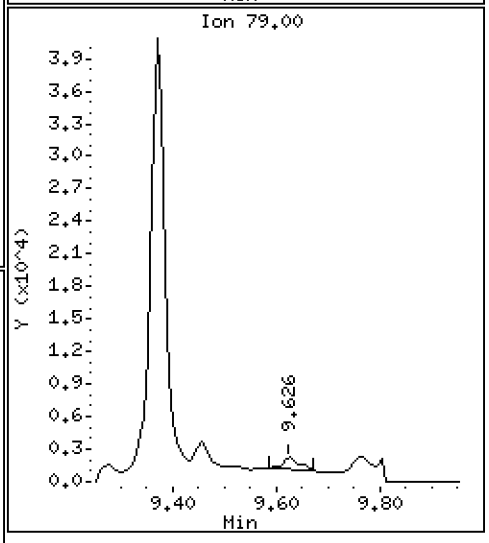
13 2-Methylphenol

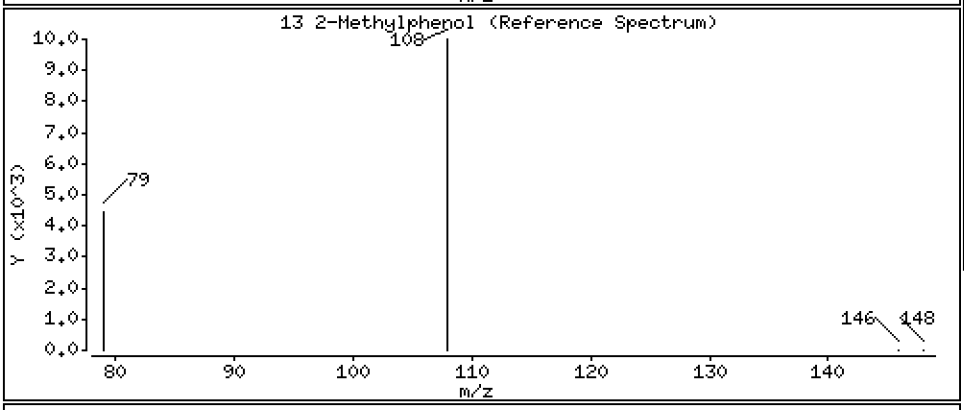
Concentration: 0.03036 ug/L

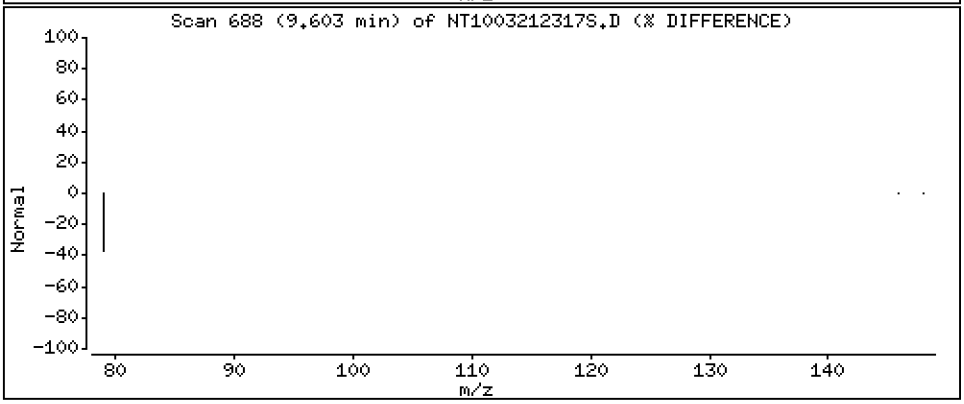












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212317S.D

Date : 22-MAR-2023 03:25

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-06

Volume Injected (uL): 1.0

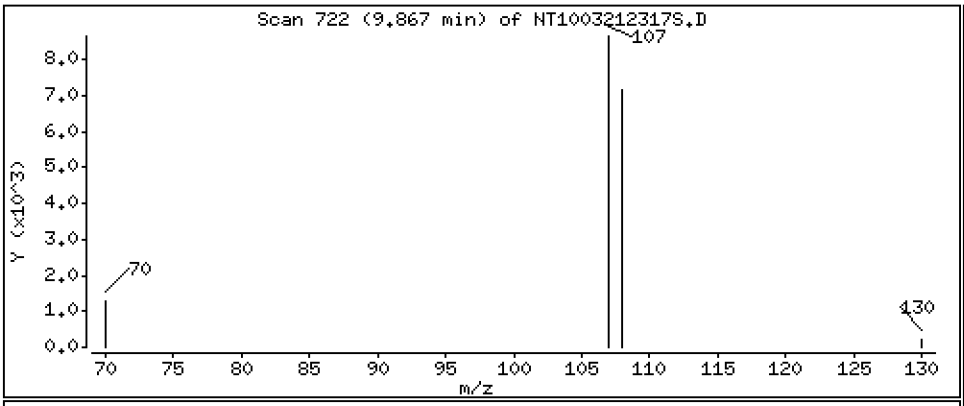
Operator: JGR

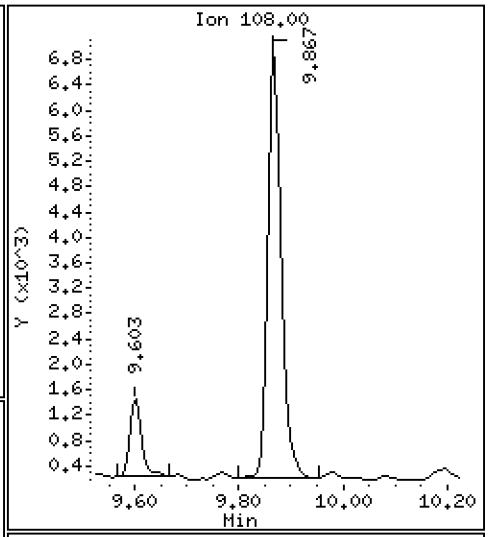
Column phase: ZB-5msi

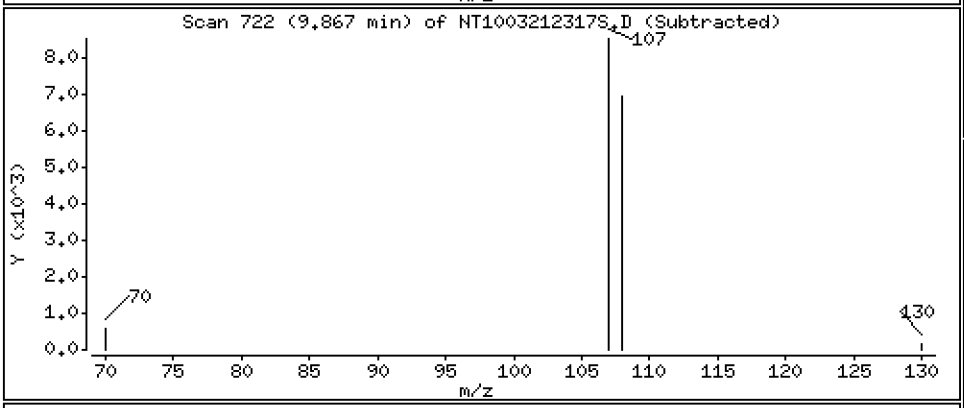
Column diameter: 0.25

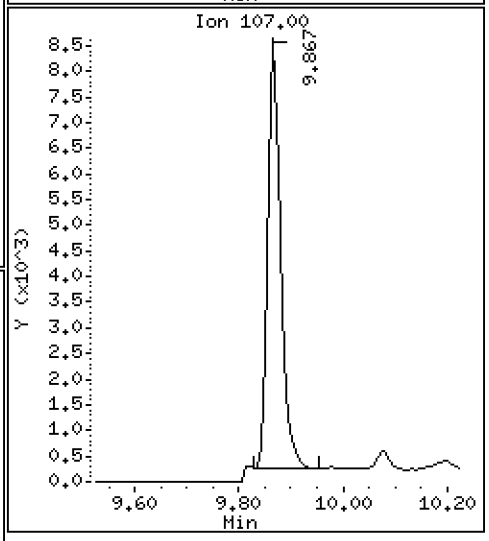
15 4-Methylphenol

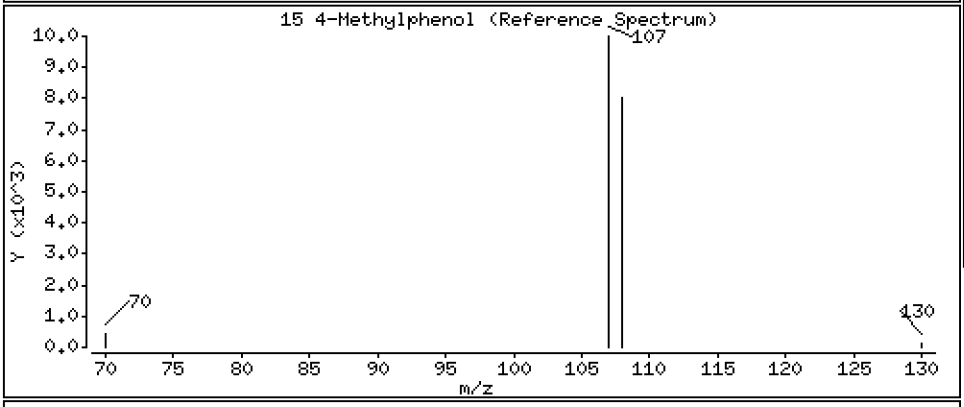
Concentration: 0.1821 ug/L

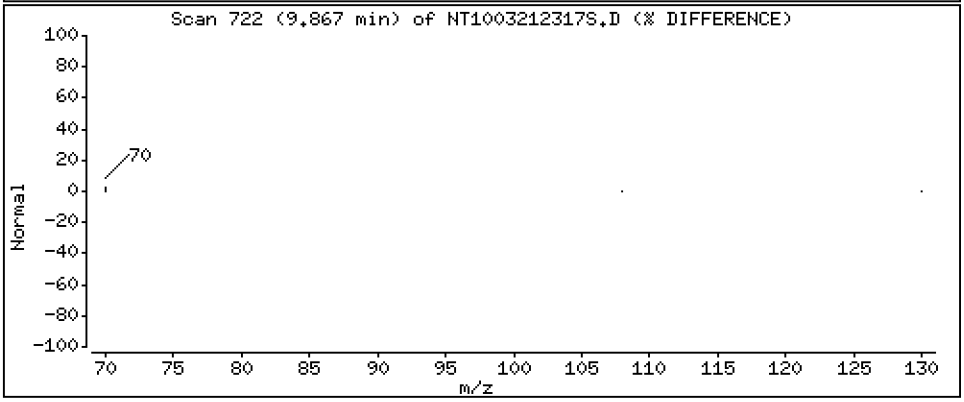












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212317S.D

Date : 22-MAR-2023 03:25

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-06

Volume Injected (uL): 1.0

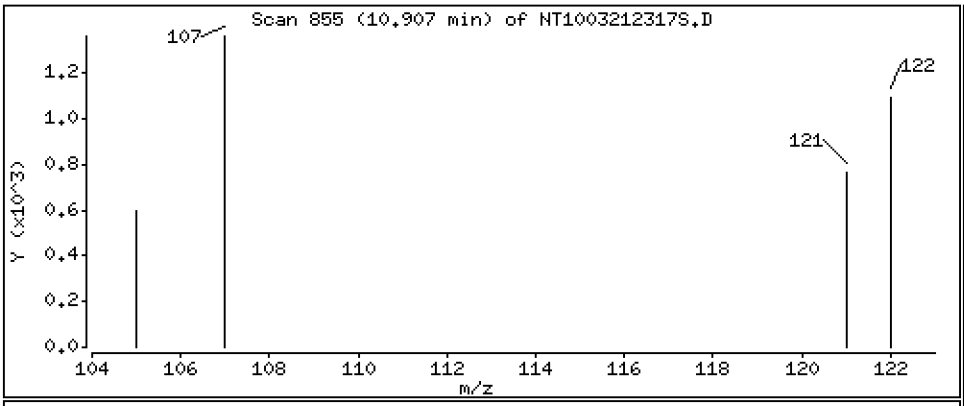
Operator: JGR

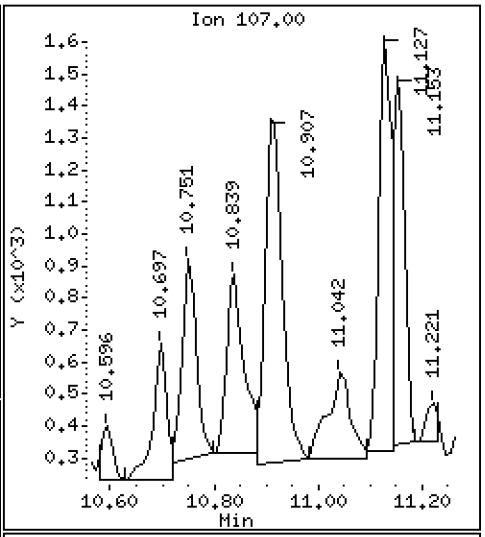
Column phase: ZB-5msi

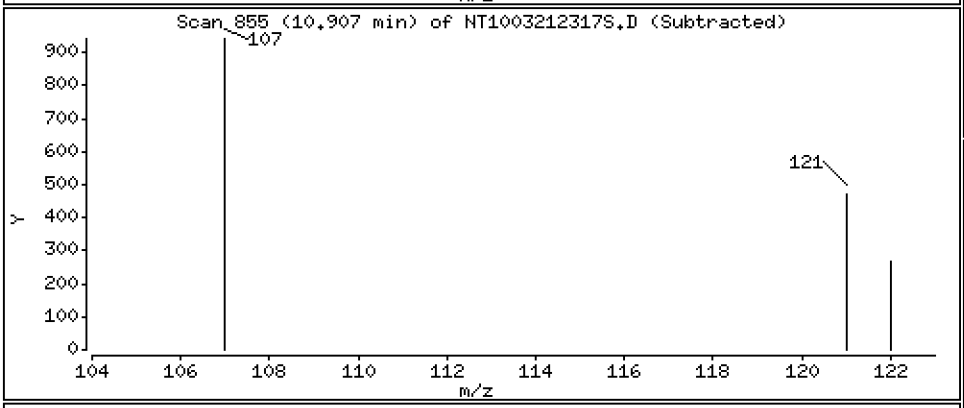
Column diameter: 0.25

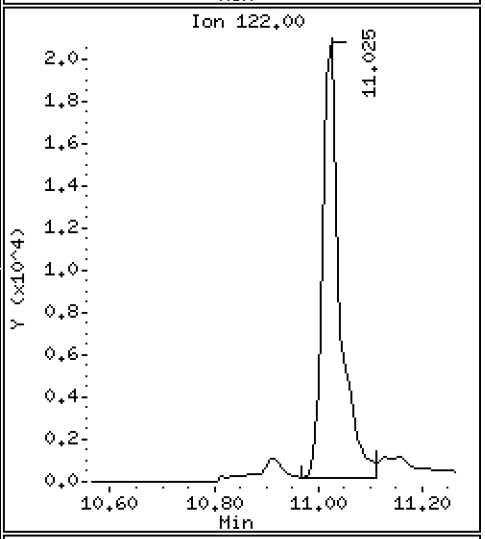
22 2,4-Dimethylphenol

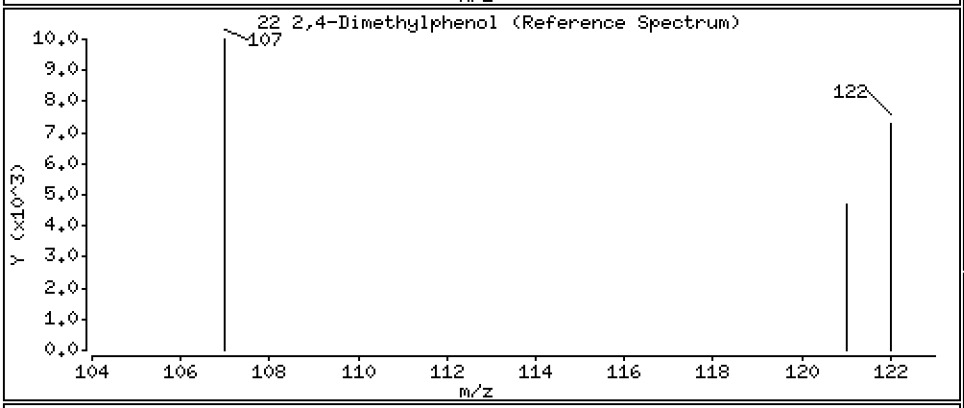
Concentration: 0.03962 ug/L

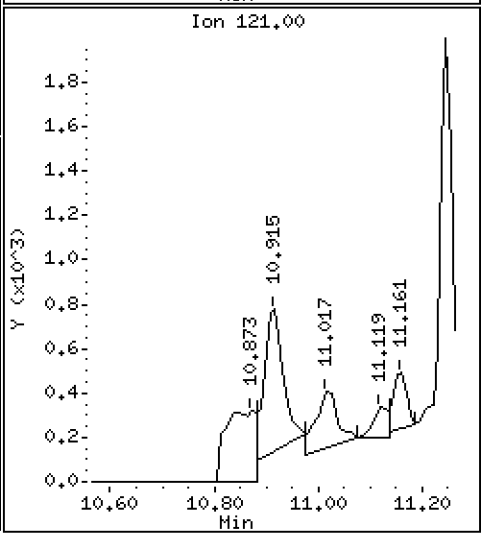


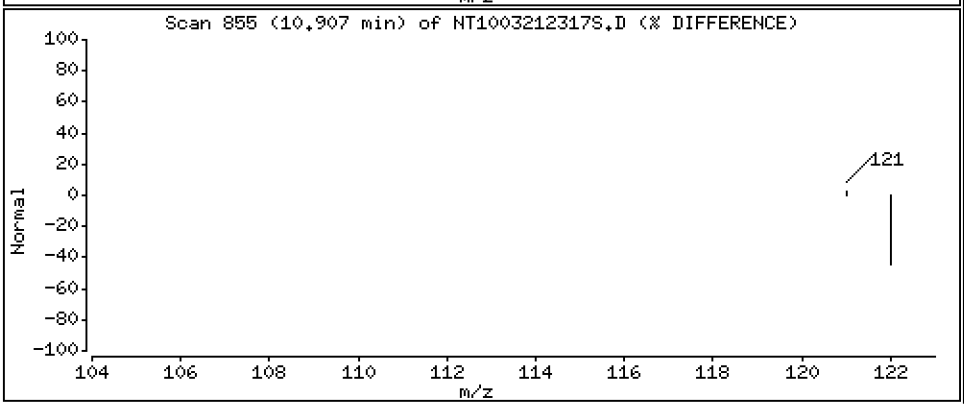












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212317S.D

Date : 22-MAR-2023 03:25

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-06

Volume Injected (uL): 1.0

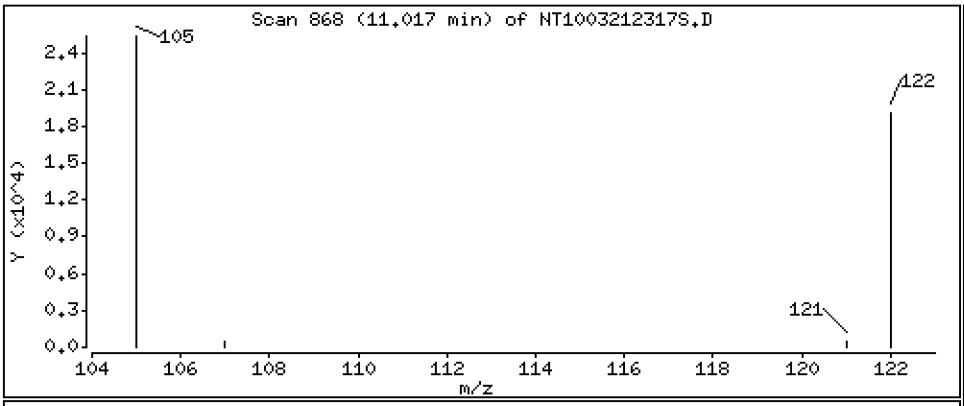
Operator: JGR

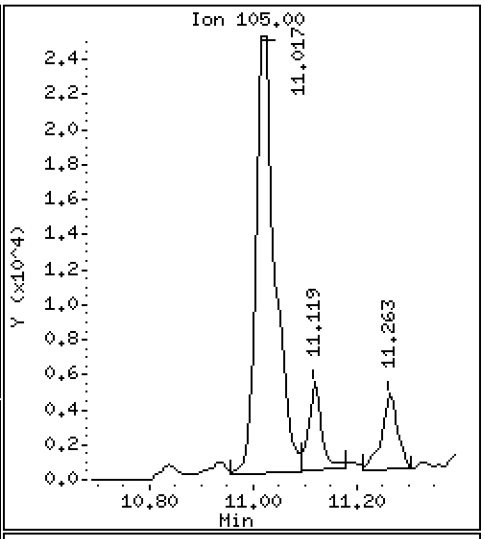
Column phase: ZB-5msi

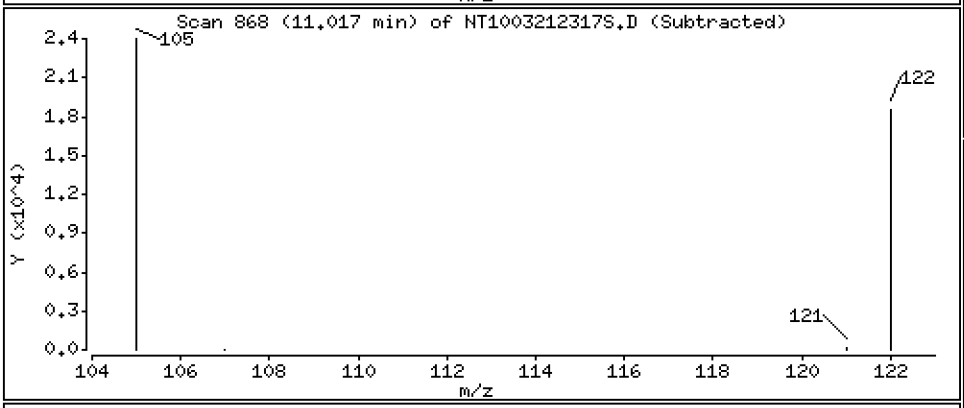
Column diameter: 0.25

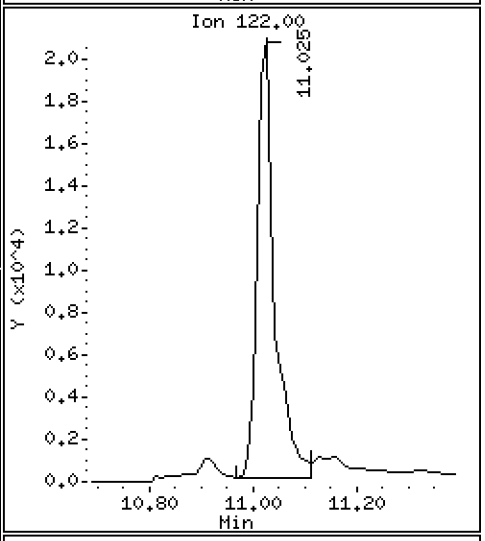
24 Benzoic acid

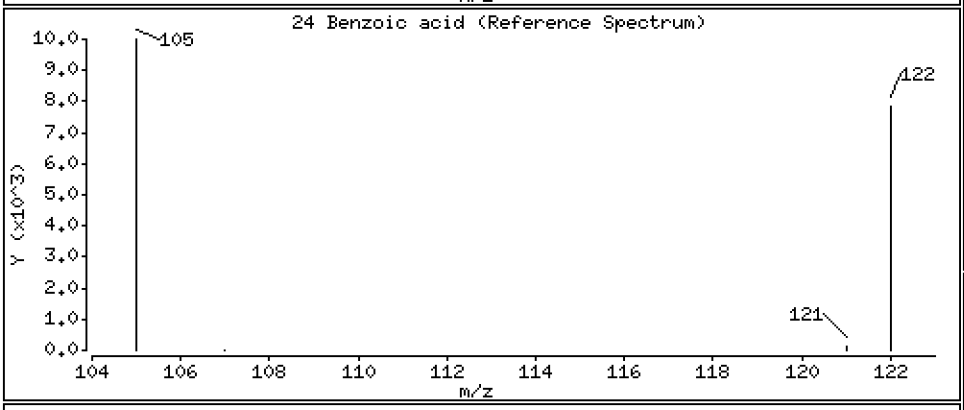
Concentration: 1.769 ug/L

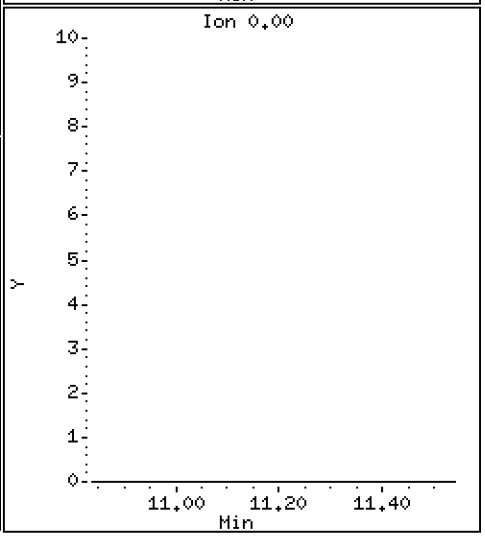


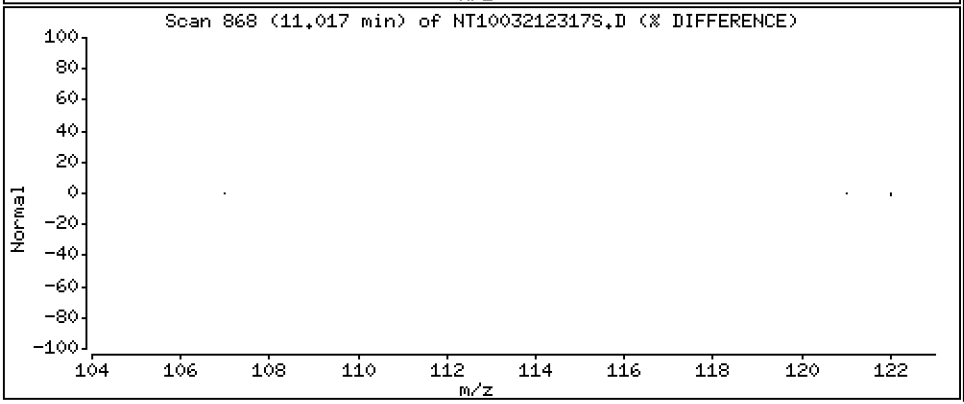












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Date : 22-MAR-2023 03:25

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-06

Volume Injected (uL): 1.0

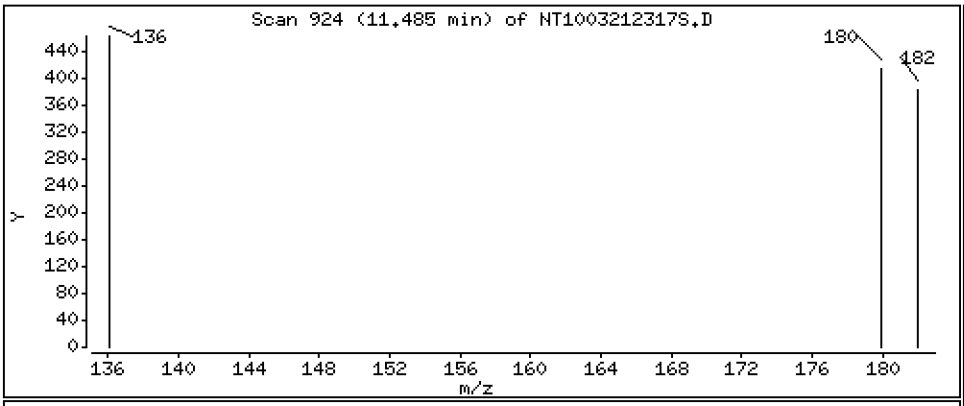
Operator: JGR

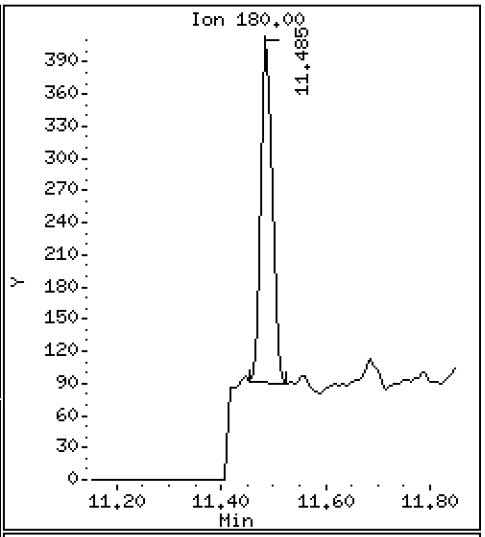
Column phase: ZB-5msi

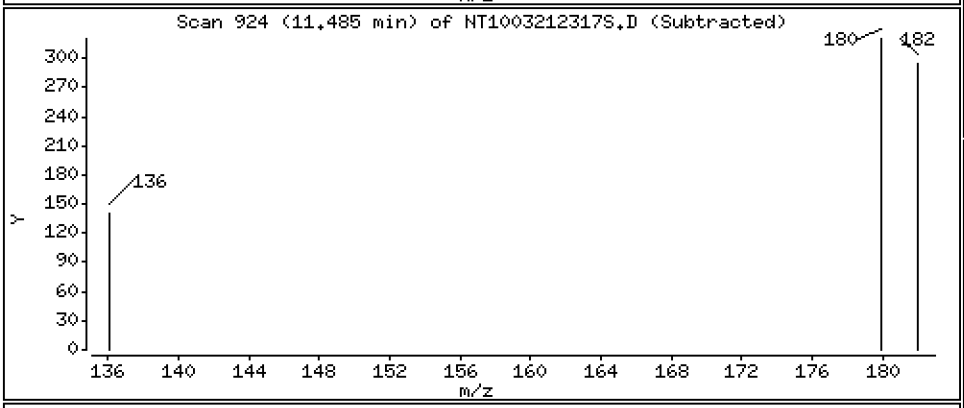
Column diameter: 0.25

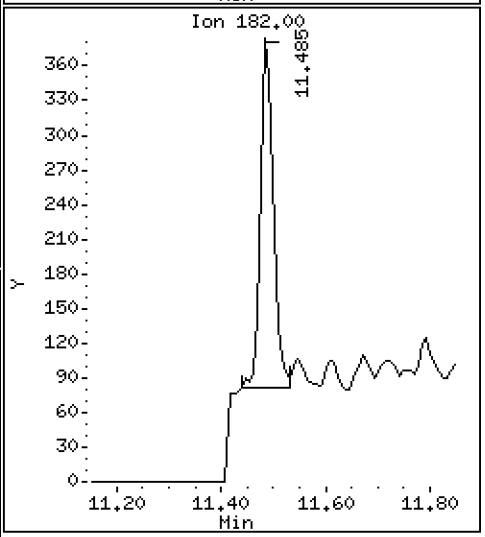
26 1,2,4-Trichlorobenzene

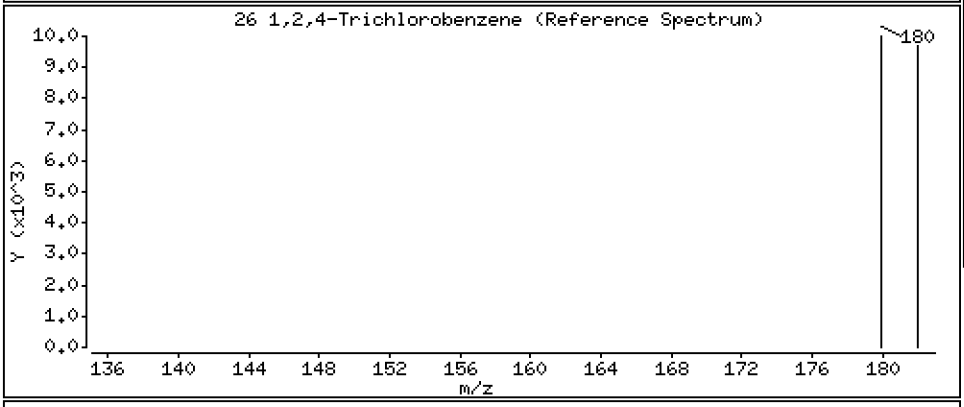
Concentration: 0.007145 ug/L

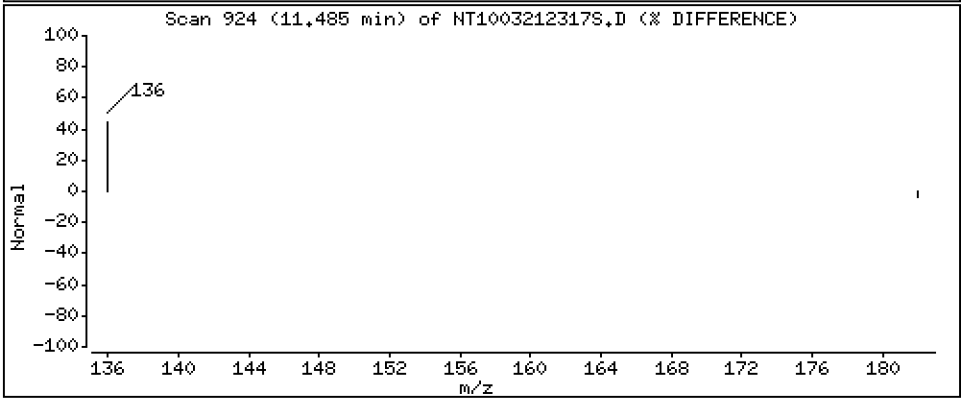












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212317S.D

Date : 22-MAR-2023 03:25

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-06

Volume Injected (uL): 1.0

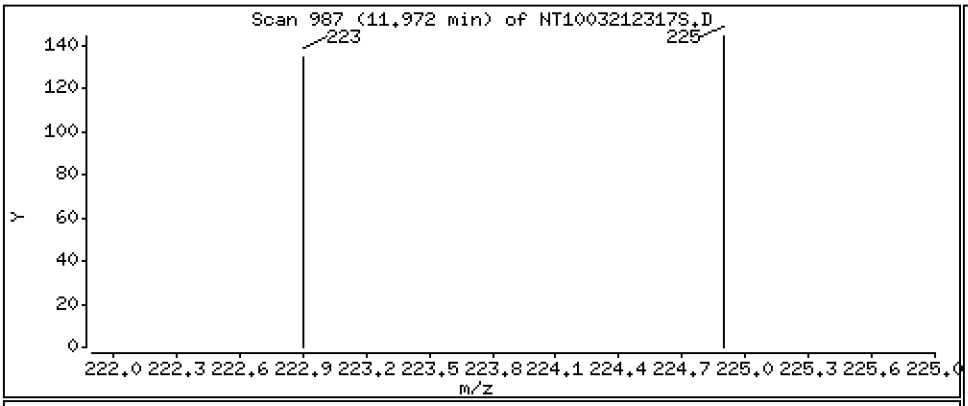
Operator: JGR

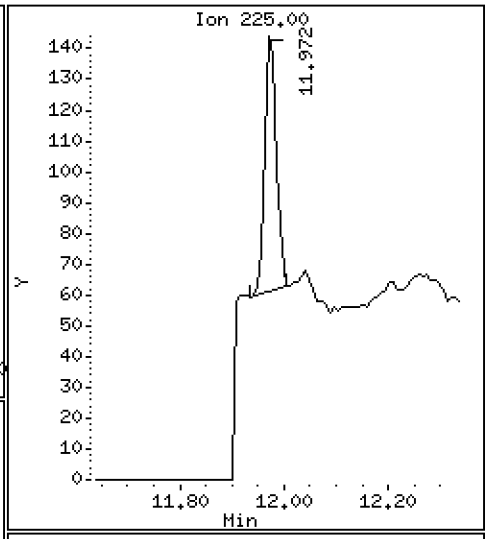
Column phase: ZB-5msi

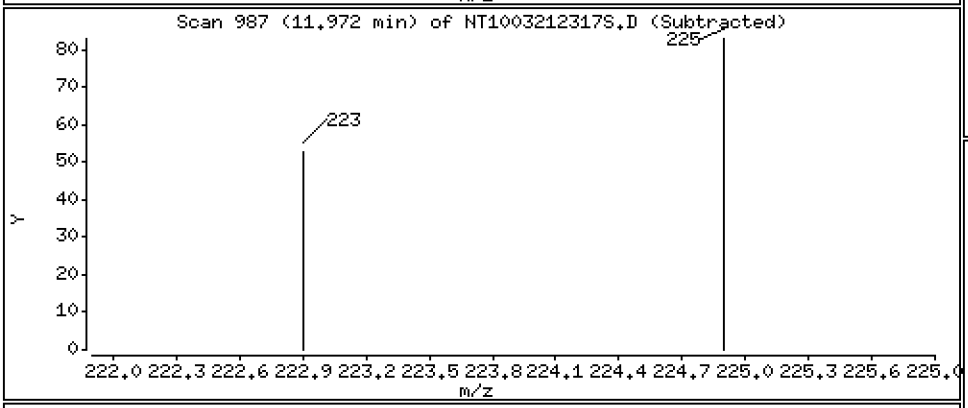
Column diameter: 0.25

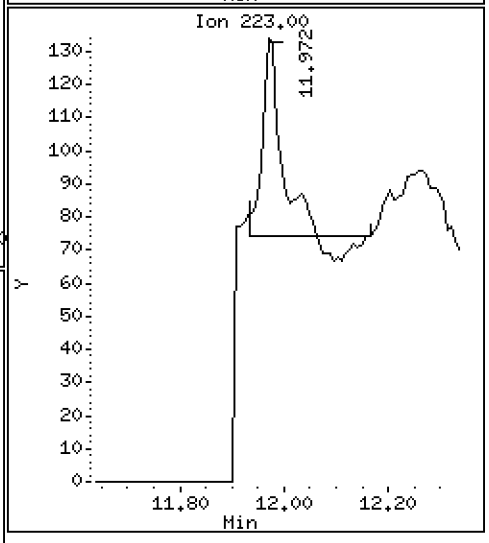
30 Hexachlorobutadiene

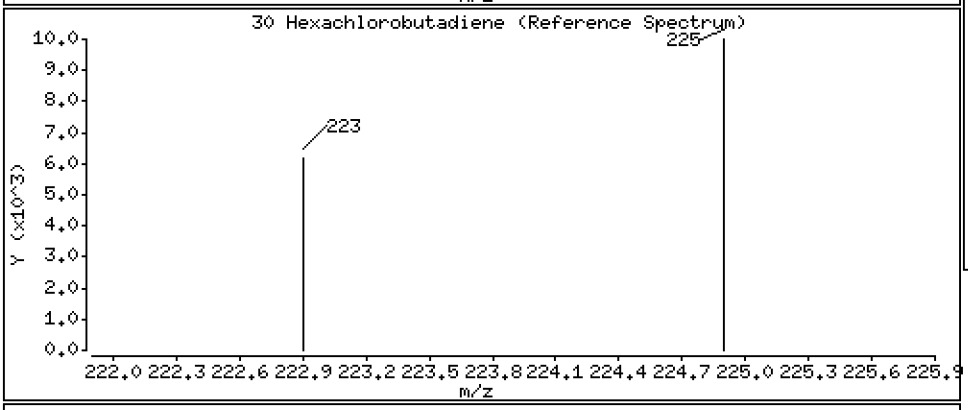
Concentration: 0.003214 ug/L

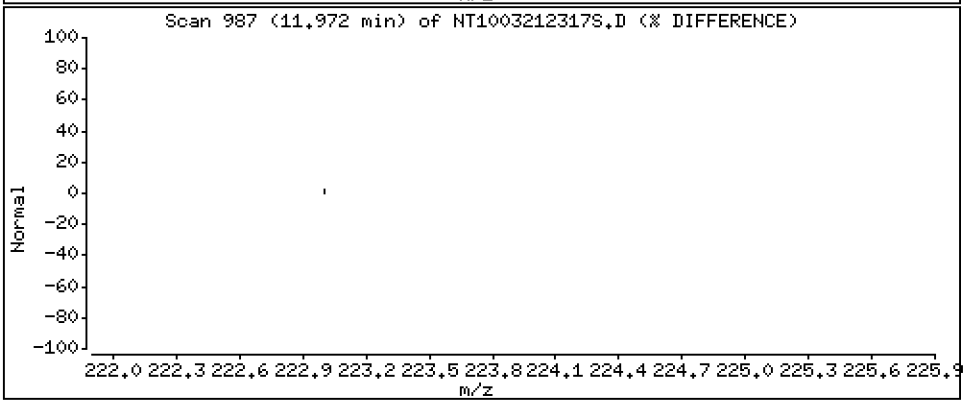












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212317S.D

Date : 22-MAR-2023 03:25

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-06

Volume Injected (uL): 1.0

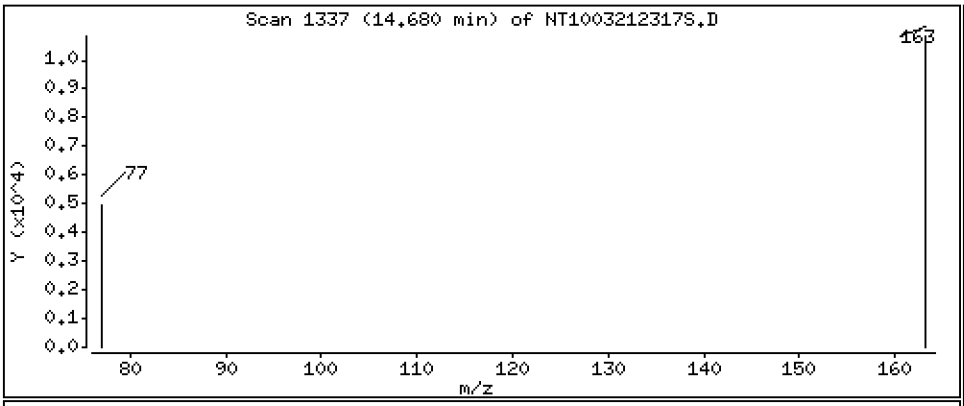
Operator: JGR

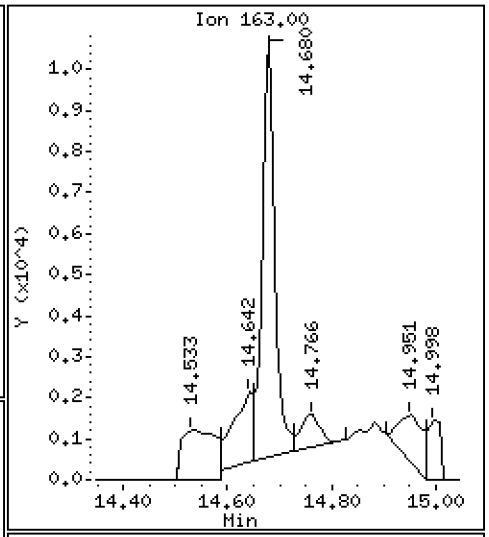
Column phase: ZB-5msi

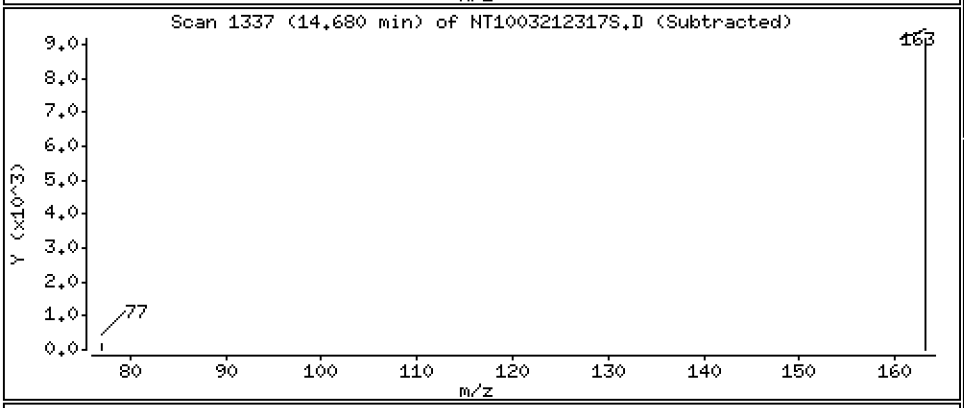
Column diameter: 0.25

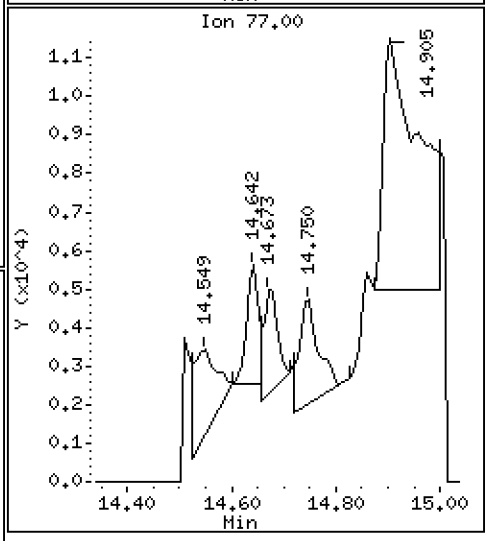
39 Dimethylphthalate

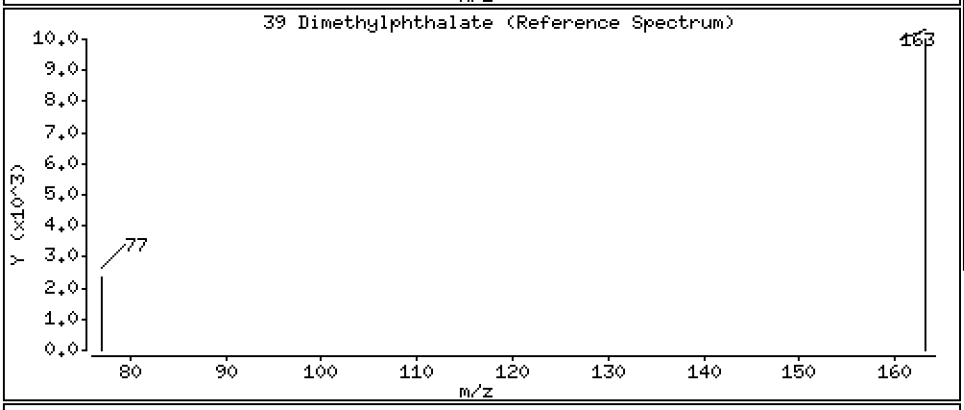
Concentration: 0.1548 ug/L

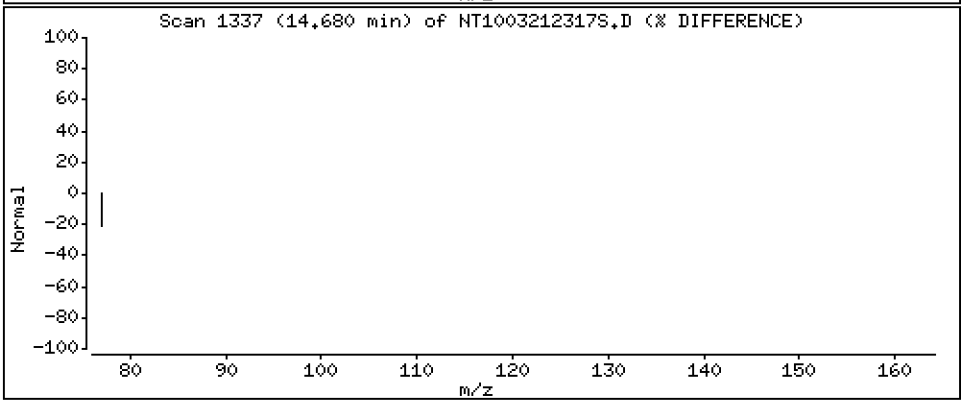












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212317S.D

Date : 22-MAR-2023 03:25

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-06

Volume Injected (uL): 1.0

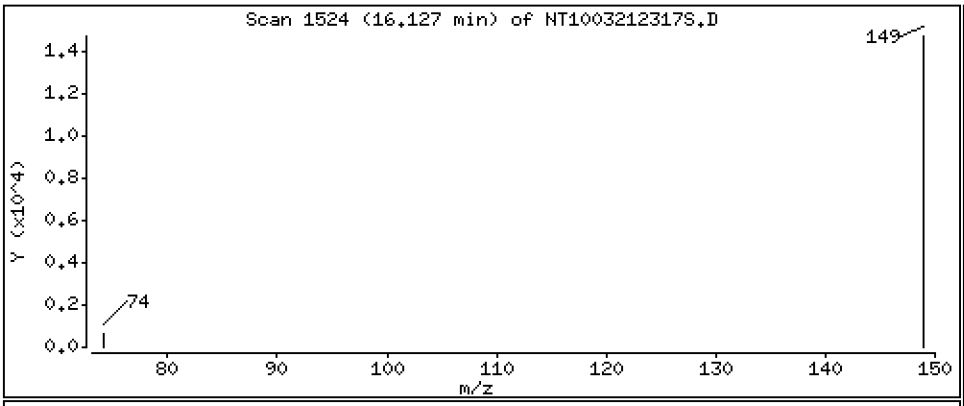
Operator: JGR

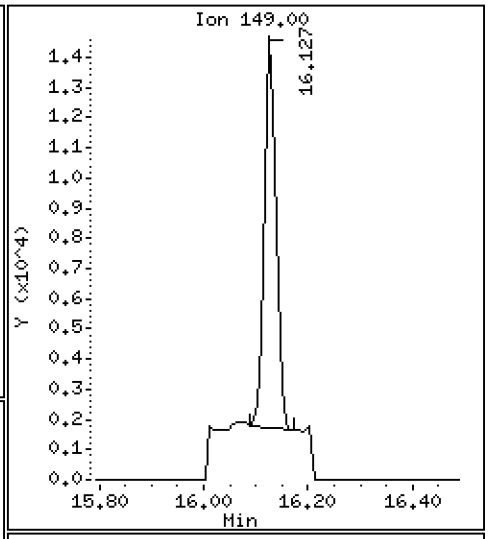
Column phase: ZB-5msi

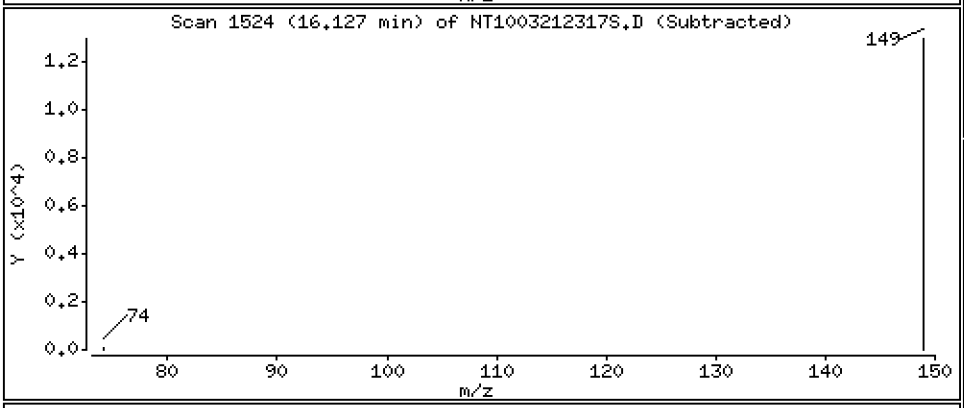
Column diameter: 0.25

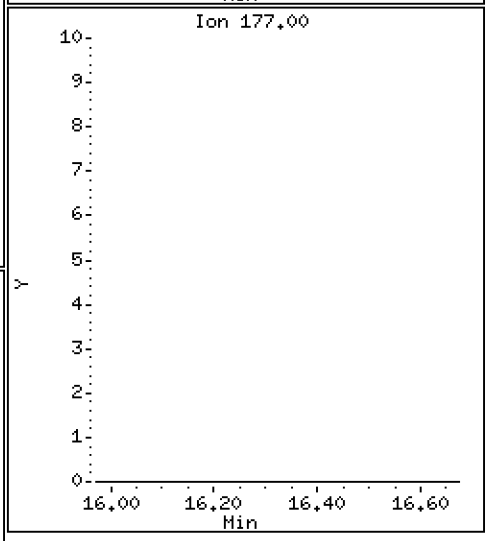
50 Diethylphthalate

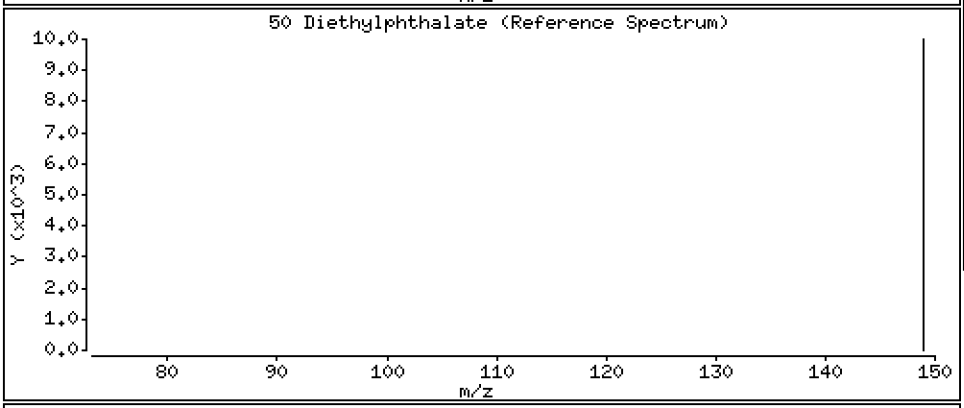
Concentration: 0.1615 ug/L

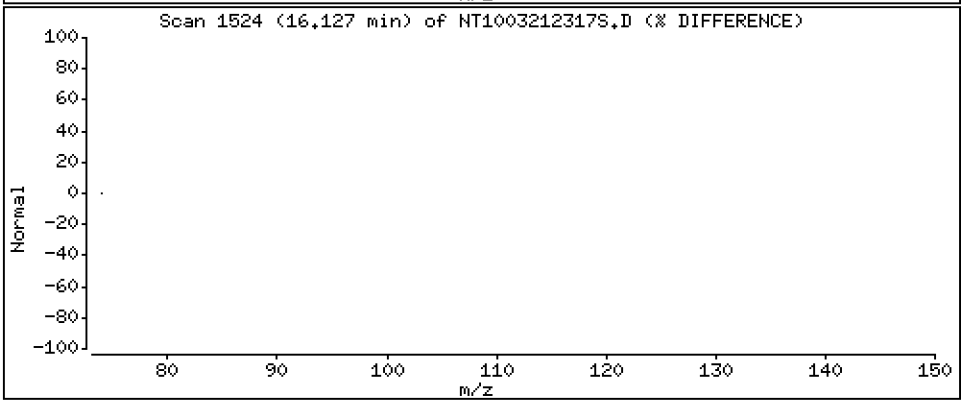












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212317S.D

Date : 22-MAR-2023 03:25

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-06

Volume Injected (uL): 1.0

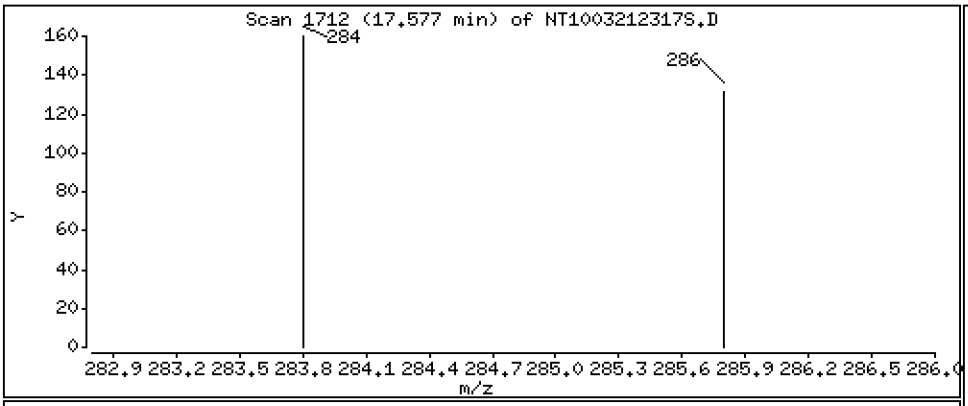
Operator: JGR

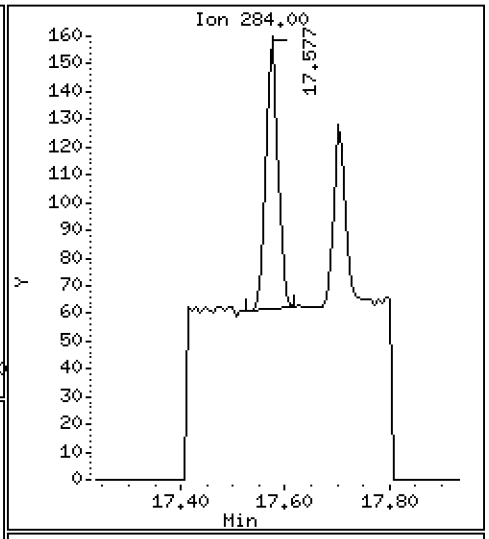
Column phase: ZB-5msi

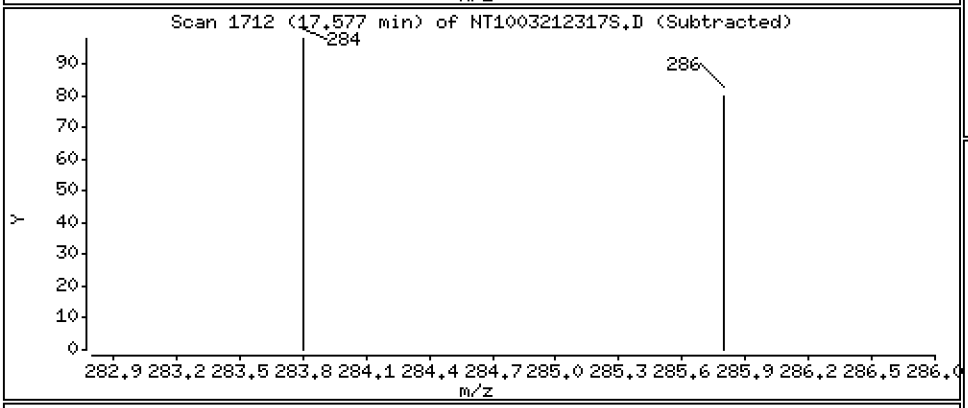
Column diameter: 0.25

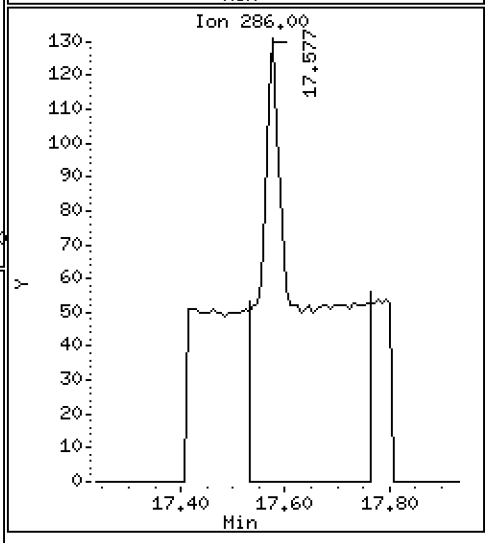
57 Hexachlorobenzene

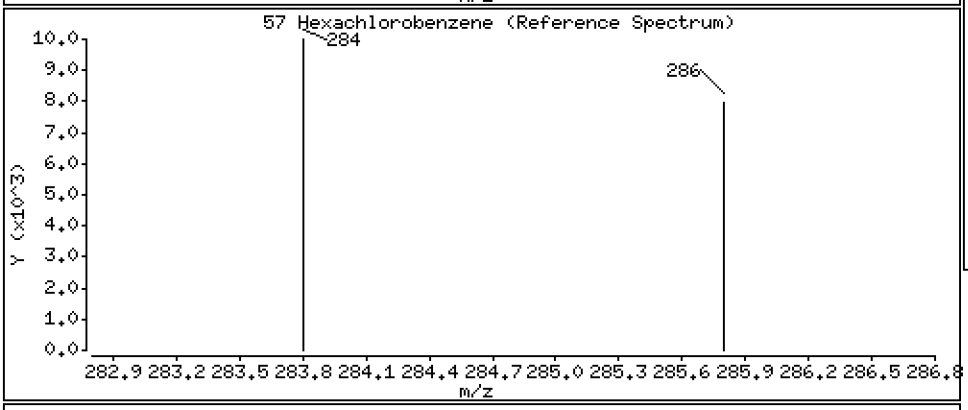
Concentration: 0.003245 ug/L

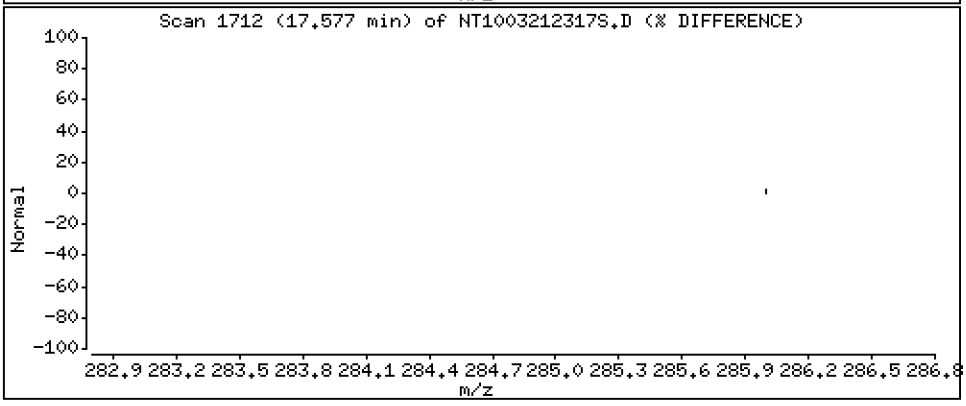












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212317S.D

Date : 22-MAR-2023 03:25

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-06

Volume Injected (uL): 1.0

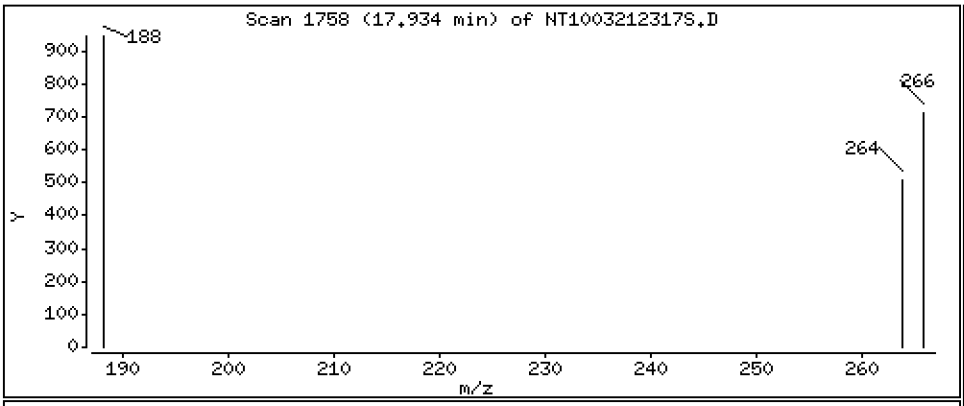
Operator: JGR

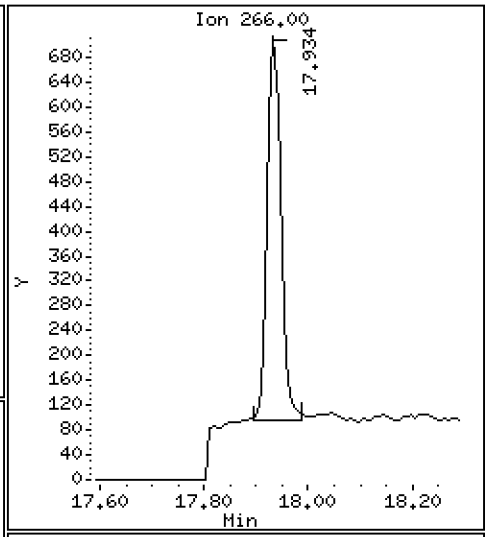
Column phase: ZB-5msi

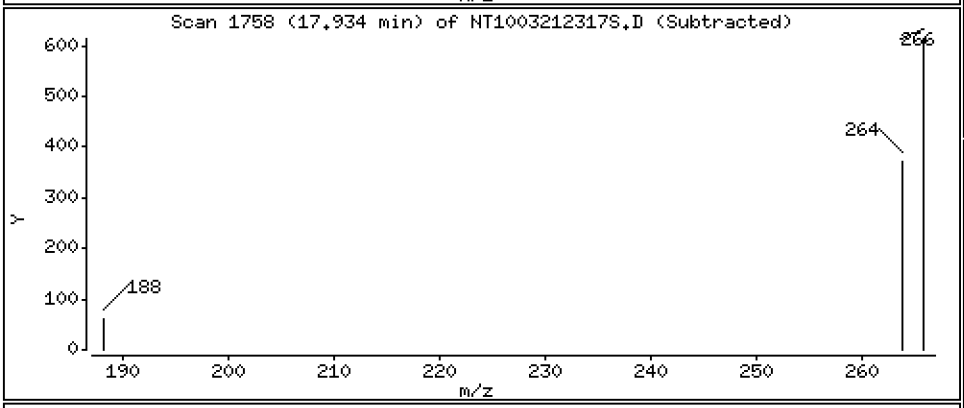
Column diameter: 0.25

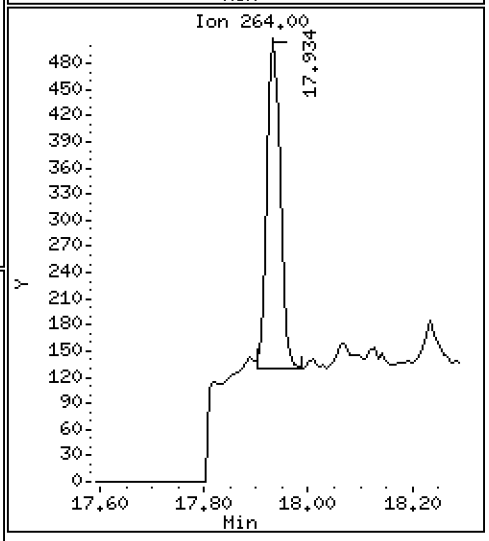
58 Pentachlorophenol

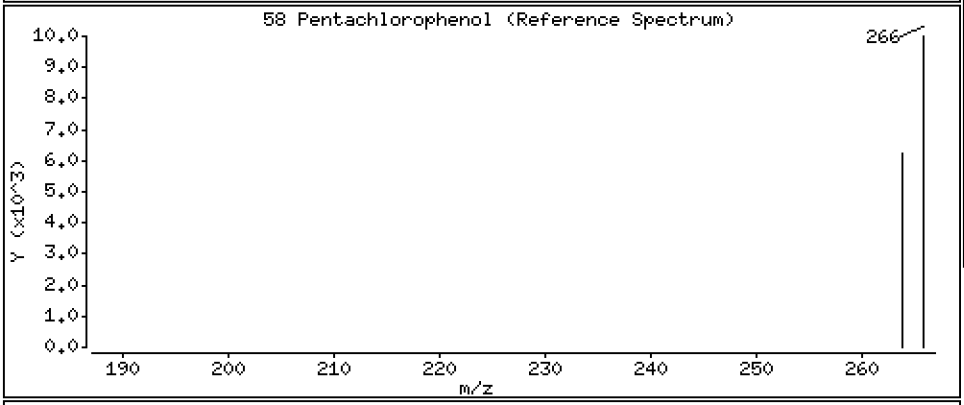
Concentration: 0.04118 ug/L

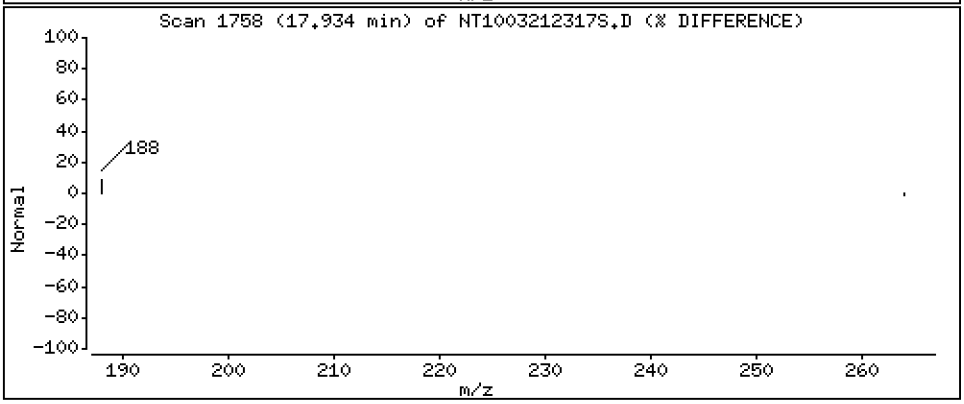












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212317S.D

Date : 22-MAR-2023 03:25

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-06

Volume Injected (uL): 1.0

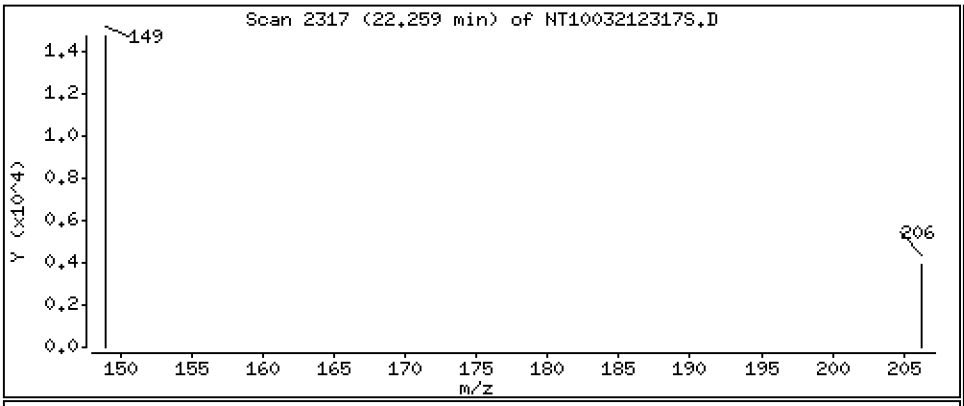
Operator: JGR

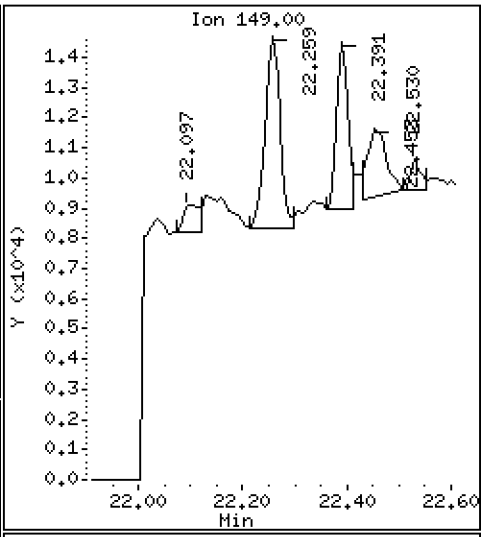
Column phase: ZB-5msi

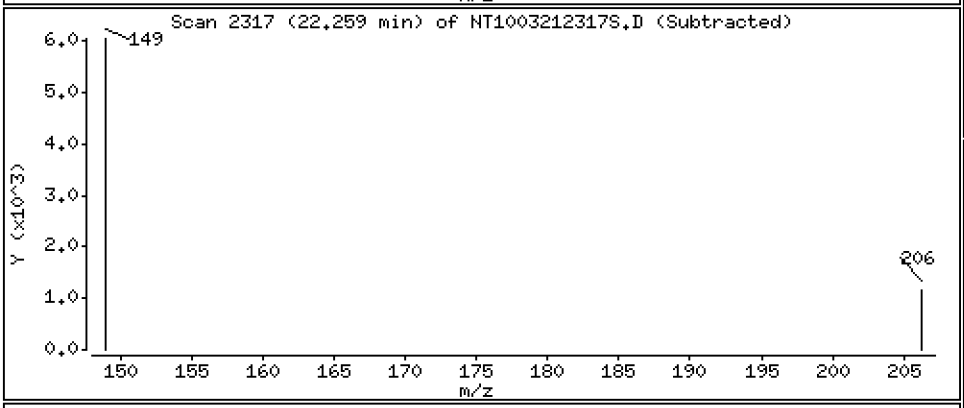
Column diameter: 0.25

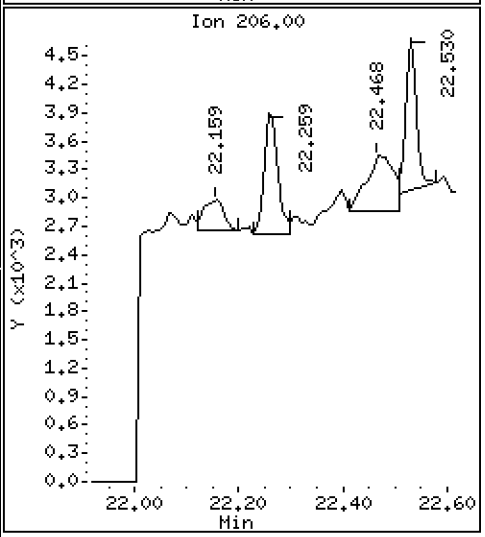
67 Butylbenzylphthalate

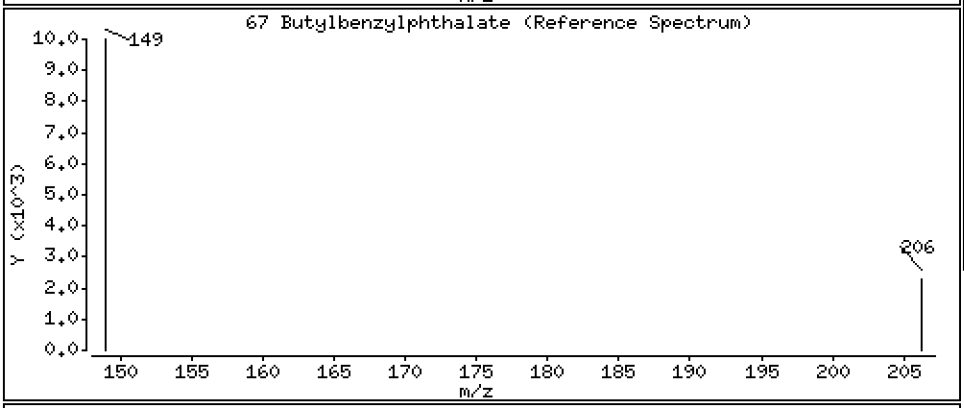
Concentration: 0.1315 ug/L

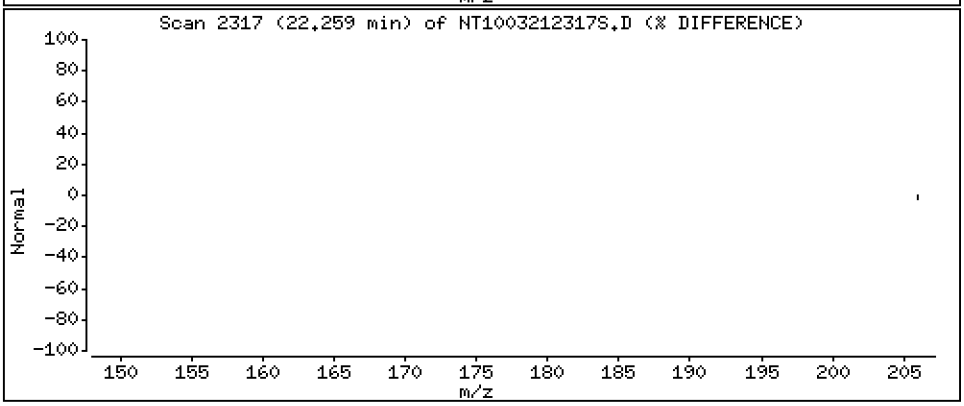












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212317S.D

Date : 22-MAR-2023 03:25

Client ID:

Instrument: nt10.i

Sample Info: 23C0071-06

Volume Injected (uL): 1.0

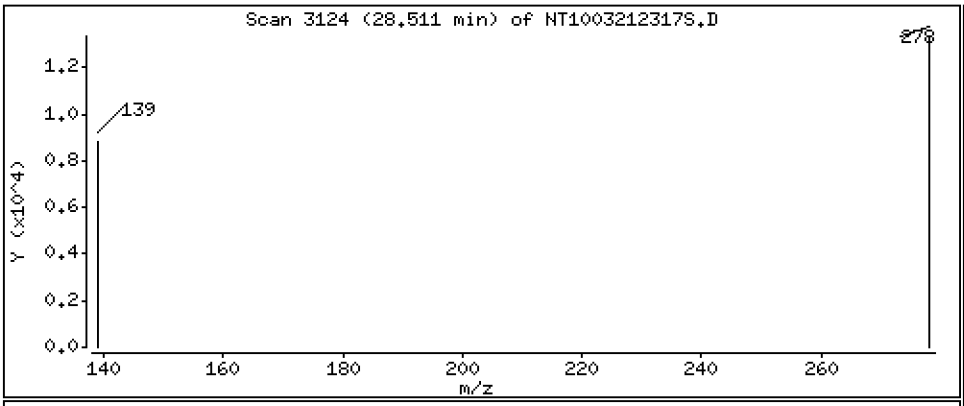
Operator: JGR

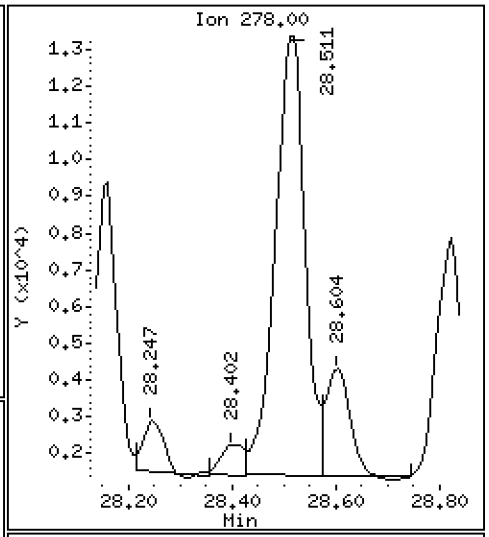
Column phase: ZB-5msi

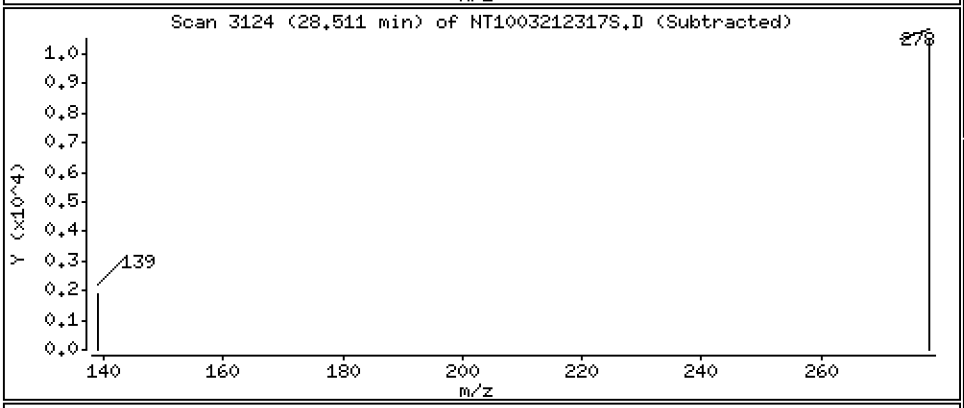
Column diameter: 0.25

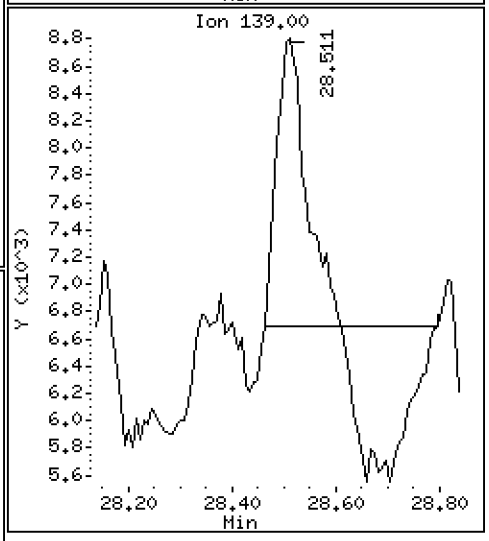
79 Dibenzo(a,h)anthracene

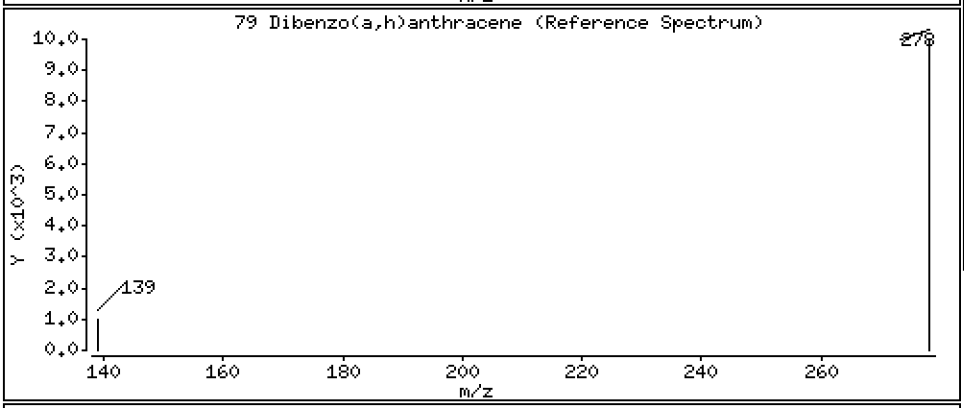
Concentration: 0.1850 ug/L

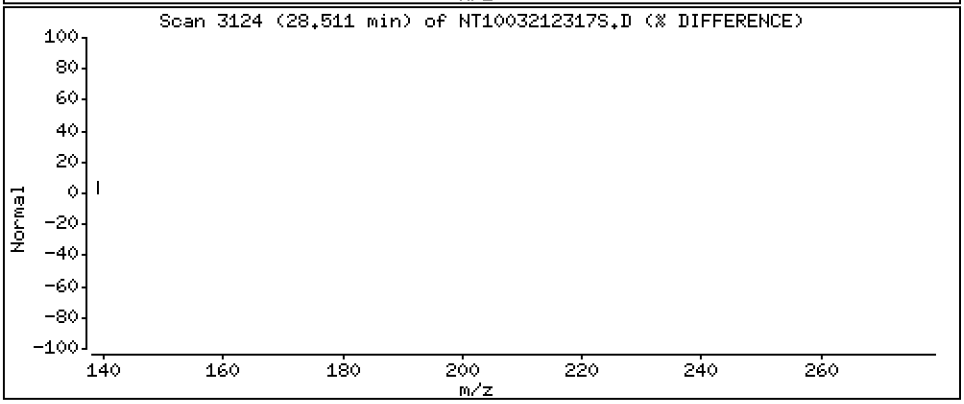












ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212317S.D
Lab Smp Id: 23C0071-06
Inj Date : 22-MAR-2023 03:25 MS Autotune Date: 16-JAN-2023 17:42
Operator : JGR Inst ID: nt10.i
Smp Info : 23C0071-06
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230321.b\20230321.b\SIMABN2.m
Meth Date : 29-Mar-2023 09:55 van Quant Type: ISTD
Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
$ 1	2-Fluorophenol	112	6.887	6.895	(0.757)	261129	4.09160	4.092(R)
3	Phenol	94	8.487	8.494	(0.933)	17807	0.20337	0.2034
7	1,3-Dichlorobenzene	146	9.035	9.043	(0.993)	827	0.01009	0.01009
* 8	1,4-Dichlorobenzene-d4	152	9.098	9.105	(1.000)	210459	4.00000	
9	1,4-Dichlorobenzene	146	9.129	9.136	(1.003)	2014	0.02546	0.02546(M)
11	Benzyl alcohol	79	9.369	9.377	(1.030)	77964	1.53591	1.536
12	1,2-Dichlorobenzene	146	9.486	9.493	(1.043)	740	0.00951	0.009514
13	2-Methylphenol	108	9.602	9.602	(1.055)	1842	0.03036	0.03036(M)
15	4-Methylphenol	108	9.866	9.874	(1.084)	11480	0.18210	0.1821
16	N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
22	2,4-Dimethylphenol	107	10.906	10.914	(0.943)	2580	0.03962	0.03962
24	Benzoic acid	105	11.016	11.042	(0.952)	63384	1.76866	1.769
26	1,2,4-Trichlorobenzene	180	11.485	11.500	(0.993)	468	0.00714	0.007145(M)
* 27	Naphthalene-d8	136	11.570	11.585	(1.000)	753314	4.00000	
30	Hexachlorobutadiene	225	11.971	11.987	(1.035)	128	0.00321	0.003214(M)
39	Dimethylphthalate	163	14.680	14.695	(0.968)	17873	0.15475	0.1548
* 42	Acenaphthene-d10	162	15.167	15.183	(1.000)	365982	4.00000	
50	Diethylphthalate	149	16.126	16.141	(1.063)	19319	0.16147	0.1615(M)
54	N-Nitrosodiphenylamine	169	Compound Not Detected.					
57	Hexachlorobenzene	284	17.577	17.584	(0.966)	155	0.00324	0.003245(M)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	58 Pentachlorophenol	266	17.933	17.941	(0.986)	1086	0.04118	0.04118(M)
*	59 Phenanthrene-d10	188	18.196	18.196	(1.000)	795312	4.00000	
$	66 Terphenyl-d14	244	21.337	21.337	(0.918)	514872	4.52504	4.525(R)
	67 Butylbenzylphthalate	149	22.259	22.259	(0.958)	12082	0.13148	0.1315
*	69 Chrysene-d12	240	23.234	23.234	(1.000)	698329	4.00000	
*	77 Perylene-d12	264	25.851	25.836	(1.000)	797285	4.00000	
	79 Dibenzo(a,h)anthracene	278	28.511	28.487	(1.103)	48381	0.18501	0.1850
	90 N-Nitrosodimethylamine	74	Compound Not Detected.					

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1003212317S.D
Lab Smp Id: 23C0071-06
Analysis Type: SV
Quant Type: ISTD
Operator: JGR
Method File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\SIMABN2.m
Misc Info:

Calibration Date: 21-MAR-2023
Calibration Time: 18:25
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	162628	81314	325256	210459	29.41
27 Naphthalene-d8	580280	290140	1160560	753314	29.82
42 Acenaphthene-d10	297255	148628	594510	365982	23.12
59 Phenanthrene-d10	561093	280547	1122186	795312	41.74
69 Chrysene-d12	498827	249414	997654	698329	39.99
77 Perylene-d12	558480	279240	1116960	797285	42.76

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.11	8.61	9.61	9.10	-0.08
27 Naphthalene-d8	11.59	11.09	12.09	11.57	-0.13
42 Acenaphthene-d10	15.18	14.68	15.68	15.17	-0.10
59 Phenanthrene-d10	18.20	17.70	18.70	18.20	0.00
69 Chrysene-d12	23.23	22.73	23.73	23.23	0.00
77 Perylene-d12	25.84	25.34	26.34	25.85	0.06

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

REVIEW SUMMARY FOR FILE - NT1003212317S.D

Lab ID: 23C0071-06
nt10.i, 20230321.b\20230321.b\SIMABN2.m,   22-MAR-2023 03:25

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

RRT check based on Ccal File: 20230321.b/NT1003212303S.D

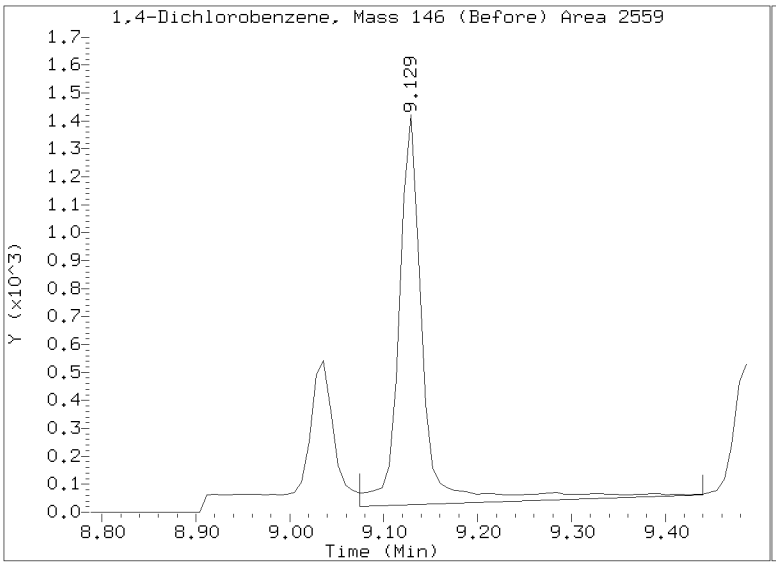
On Column LOD for nt10.i, 20230321.b\SIMABN2.m, PSDDA.sub = 0.0000

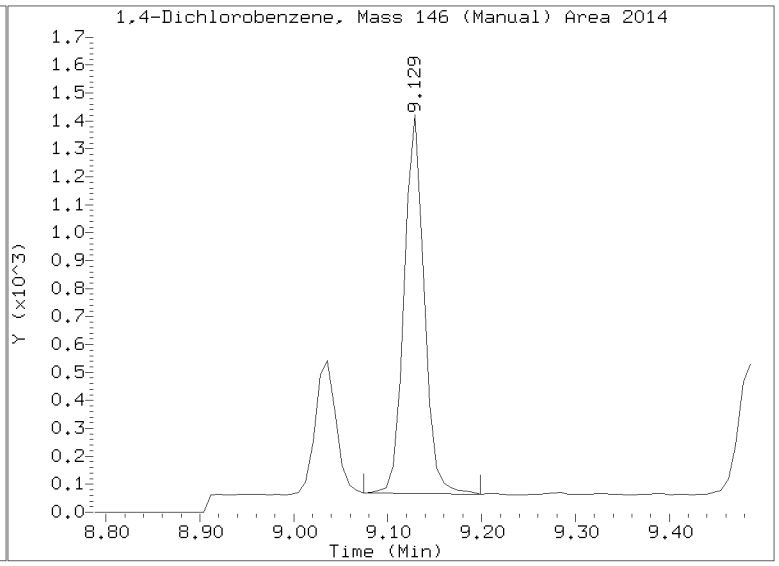
Exception: 1,2,4-Trichlorobenzene 0.0010

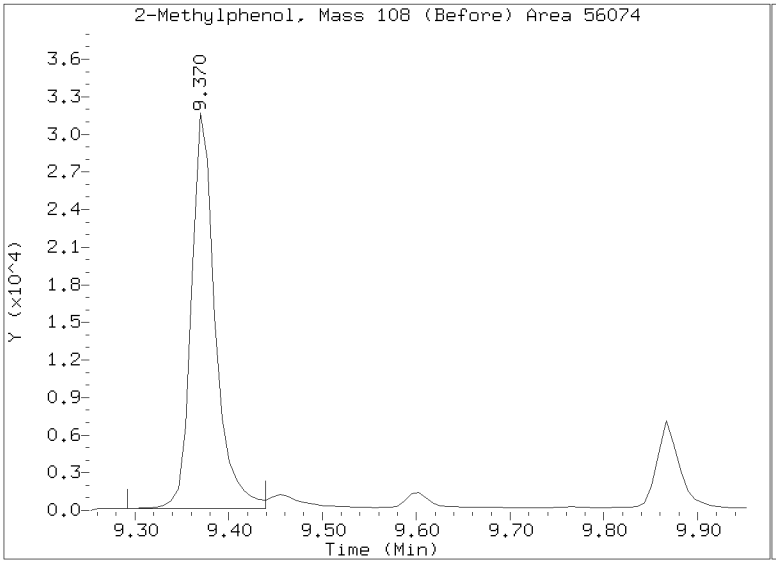
* Only compounds listed in the work order have been verified by the analyst *

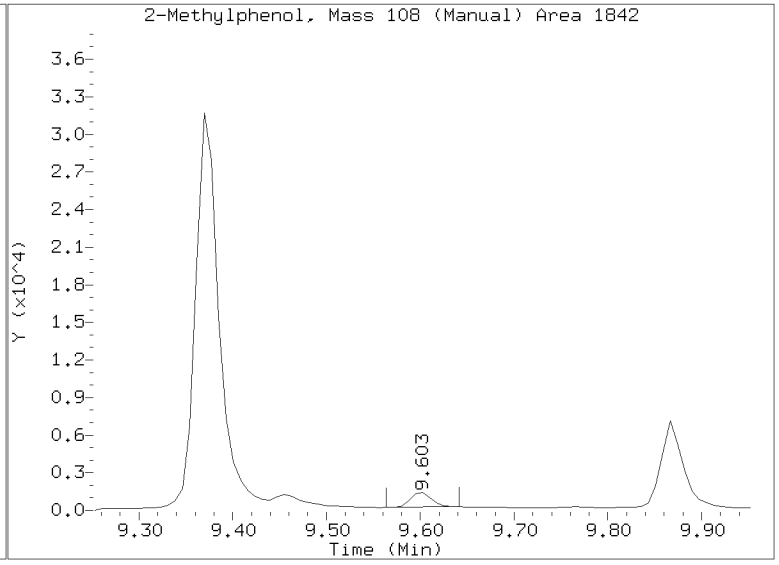
Quant Ion Manual Peak Adjustment Report

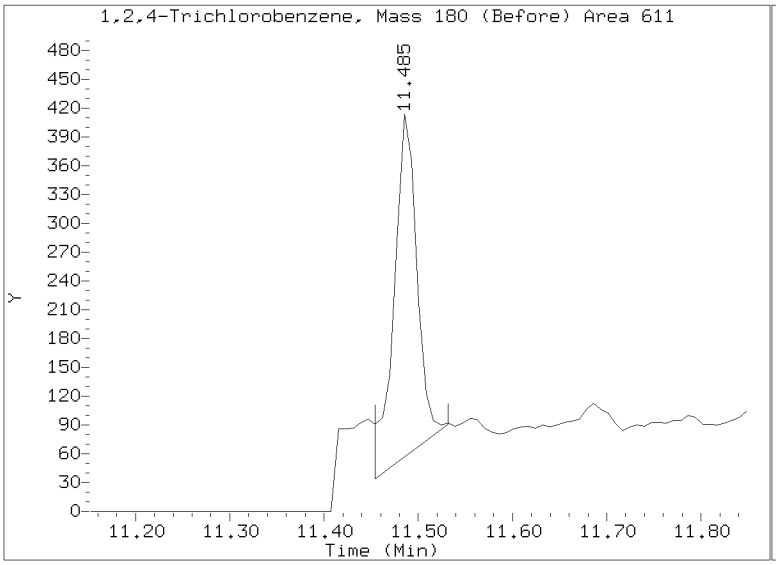
Datafile: //target/share/chem3/nt10.i/20230321.b/20230321.b/NT1003212317S.D
Injection Date: 22-MAR-2023 03:25
Lab ID:23C0071-06 Client ID:
Report Date: 03/29/2023 13:25

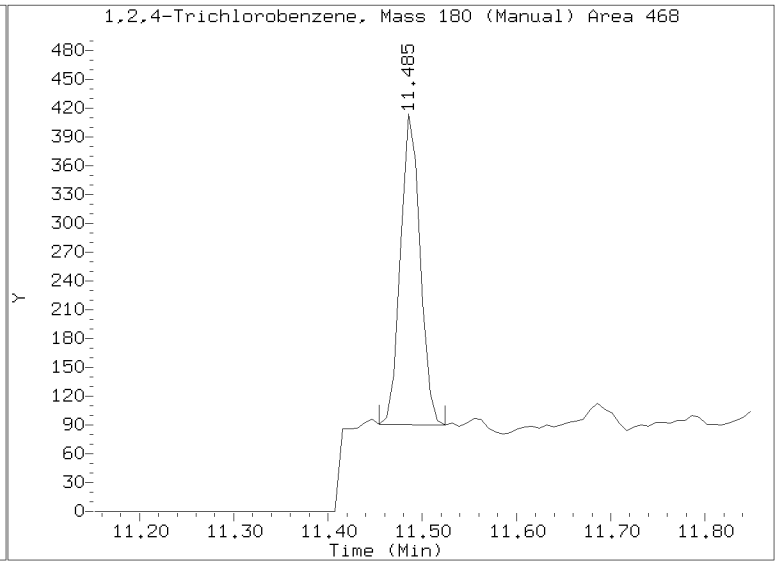












Quant Ion Manual Peak Adjustment Report

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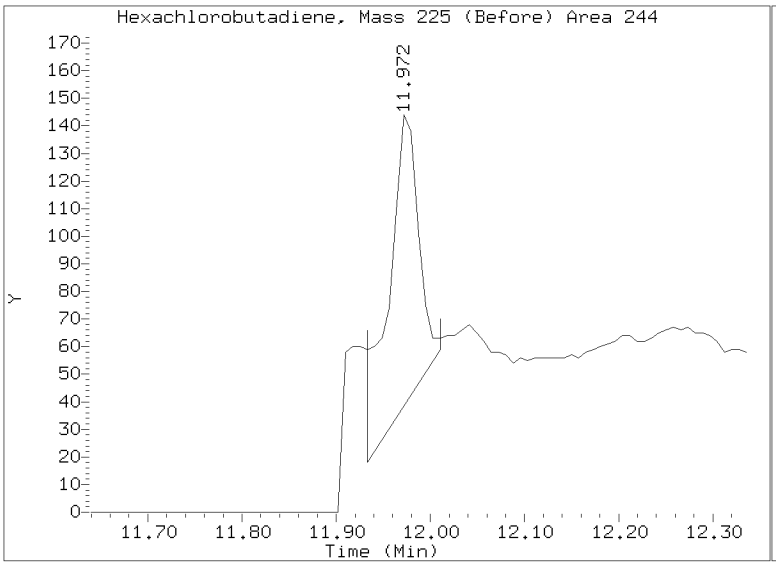
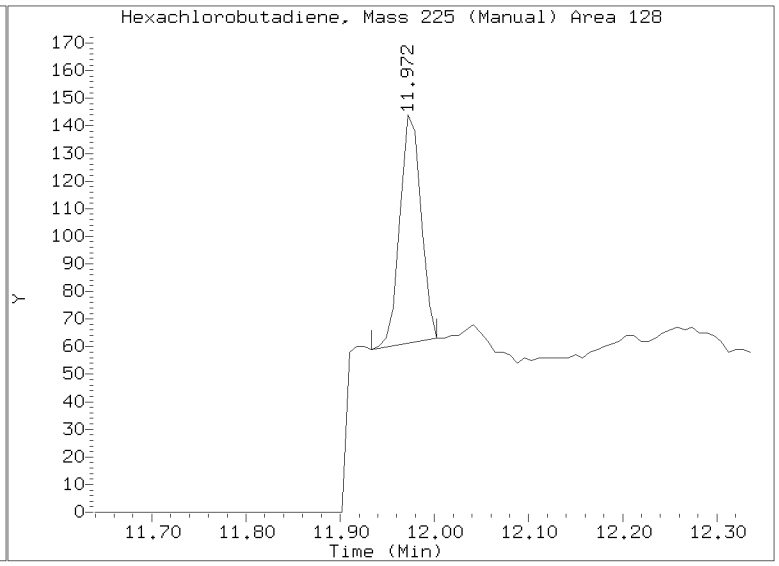
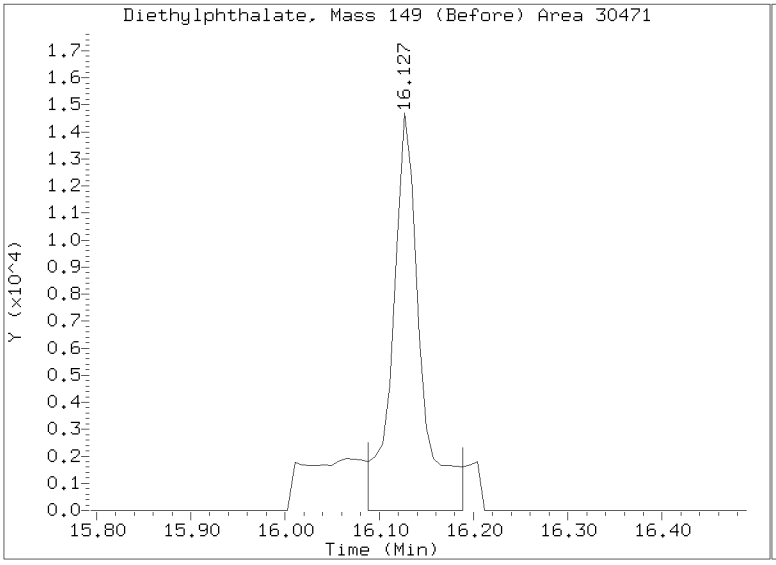
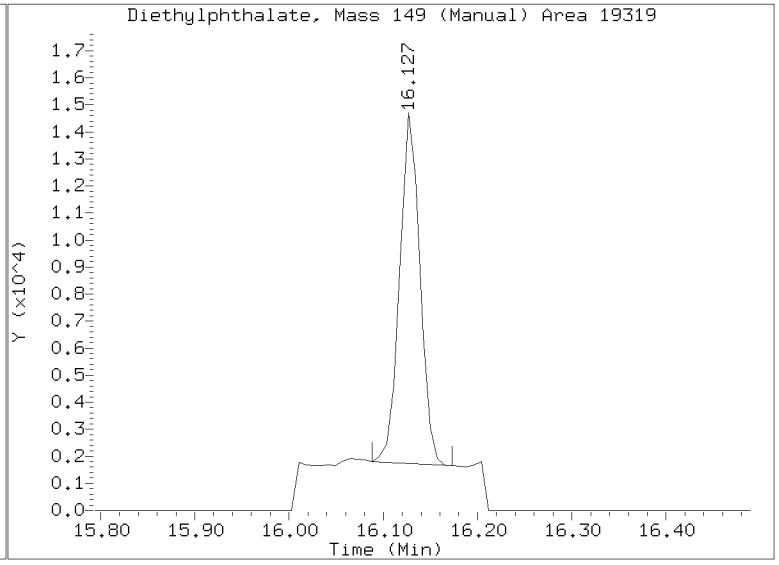
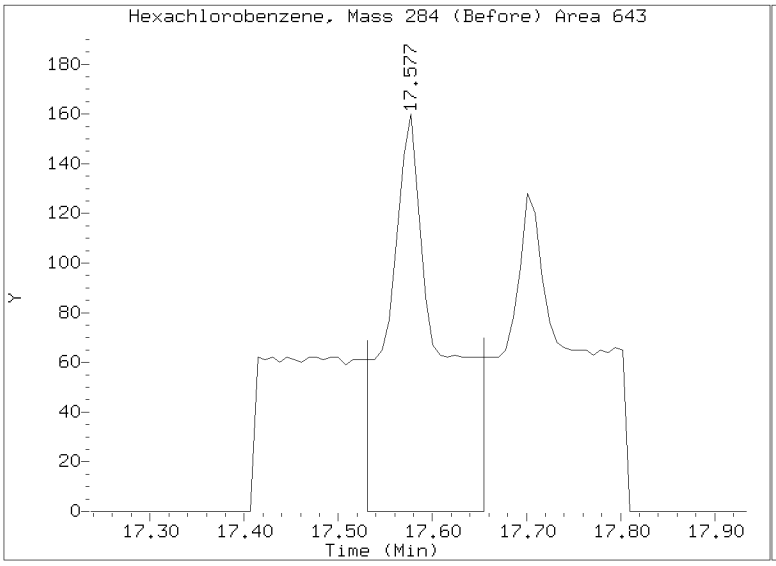
Injection Date: 22-MAR-2023 03:25
Lab ID:23C0071-06 Client ID:
Report Date: 03/29/2023 13:25

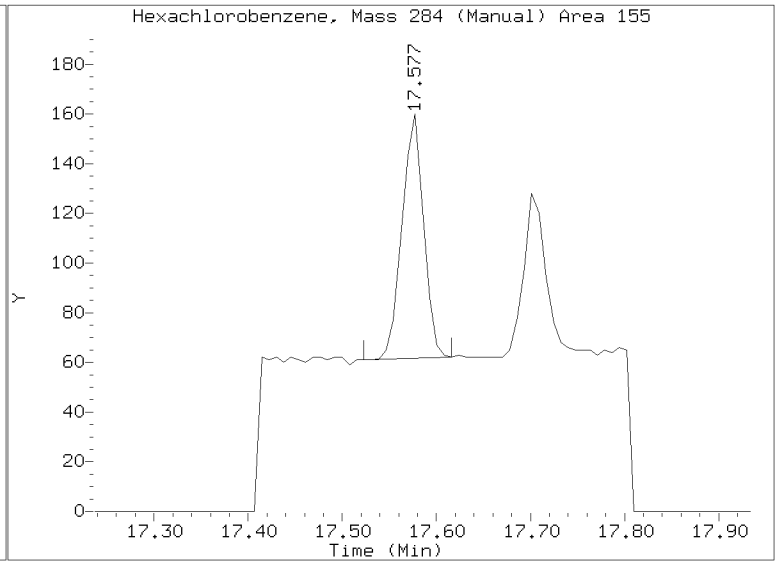












Quant Ion Manual Peak Adjustment Report

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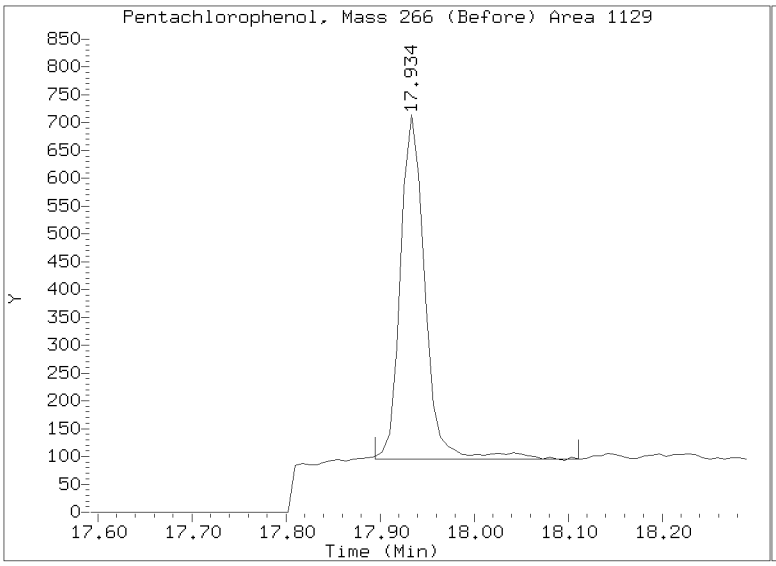
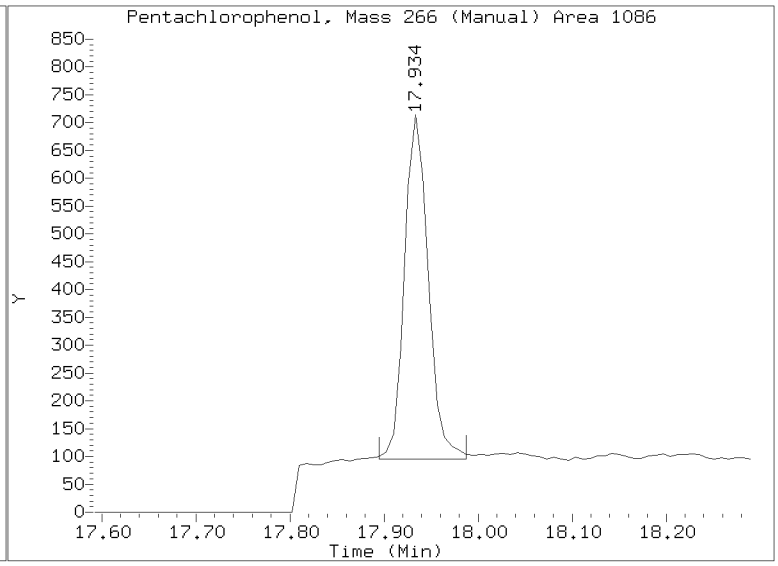
Injection Date: 22-MAR-2023 03:25
Lab ID:23C0071-06 Client ID:
Report Date: 03/29/2023 13:25





PREPARATION BATCH SUMMARY

EPA 8270E-SIM

Laboratory: Analytical Resources, LLC SDG: 23C0071

Client: Anchor QEA, LLC Project: AOC5 MR Phase 1

Batch: BLC0109 Batch Matrix: Solid Preparation: EPA 3546 (Microwave)

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW23-SS1000	23C0071-01	NT1003212310S.D	03/07/23 10:21	
LDW23-SS1037	23C0071-02	NT1003212311S.D	03/07/23 10:21	
LDW23-SS1036	23C0071-03	NT1003212312S.D	03/07/23 10:21	
LDW23-SS1044	23C0071-04	NT1003212313S.D	03/07/23 10:21	
LDW23-SS1048	23C0071-05	NT1003212314S.D	03/07/23 10:21	
LDW23-SS1054	23C0071-06	NT1003212317S.D	03/07/23 10:21	
Blank	BLC0109-BLK2	NT1003212306S.D	03/07/23 10:21	
LCS	BLC0109-BS2	NT1003212307S.D	03/07/23 10:21	
LCS Dup	BLC0109-BSD2	NT1003212308S.D	03/07/23 10:21	
LDW23-SS1048	BLC0109-MS2	NT1003212315S.D	03/07/23 10:21	
LDW23-SS1048	BLC0109-MSD2	NT1003212316S.D	03/07/23 10:21	
Reference	BLC0109-SRM2	NT1003212309S.D	03/07/23 10:21	

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BLC0109

Prepared using: EPA 3546 (Microwave)

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

Matrix: Solid Date Prepared: 3/7/23 Balance ID: B139298002 Set Up By: CR 3/6/23

WO Comments
23C0071: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM I009127 PCB RM J006840-43, 7935-36,K011477-79, MS/MSD </E>
<H>BPR J006840-43, 7935-36, K011477-79, Dup </H> Store in freezer (except GS)

The following standards may be missing from this batch!

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

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

Lab Number & Container	% Solids	Initial (g) Target Dry: 10 (Wet) Actual	(REQ) GPC C/U (1:1) 1 2 3	Water Wash 1mL	Final Effective Vol (mL)	Vol (mL) to Lab	Extraction Comments
23C0071-01 A	46.2	(21.63) 21.73	(1:1)	1mL	1 ____	0.5 ____	
23C0071-02 A	50.8	(19.70) 19.97	(1:1)	1mL	1 ____	0.5 ____	
23C0071-03 A	47.6	(21.02) 21.57	(1:1)	1mL	1 ____	0.5 ____	
23C0071-04 A	47.8	(20.93) 20.95	(1:1)	1mL	1 ____	0.5 ____	
23C0071-05 A	50.0	(20.00) 20.00	(1:1)	1mL	1 ____	0.5 ____	
23C0071-06 A	50.4	(19.83) 19.99	(1:1)	1mL	1 ____	0.5 ____	

Batch QC

Lab Number	% Solids	Initial (g) Target Dry: 10 (Wet) Actual	(REQ) GPC C/U (1:1) 1 2 3	Water Wash 1mL	Final Effective Vol (mL)	Vol (mL) to Lab	Extraction Comments
BLC0109-BLK1	100.0	(10.00) 10.00	(1:1)	1mL	1 ____	0.5 ____	Use 5g Neutral Sodium Sulfate for Blanks
BLC0109-BS1	100.0	(10.00) 10.00	(1:1)	1mL	1 ____	0.5 ____	Use 5g Neutral Sodium Sulfate for Blanks
BLC0109-BSD1	100.0	(10.00) 10.00	(1:1)	1mL	1 ____	0.5 ____	Use 5g Neutral Sodium Sulfate for Blanks
BLC0109-MS1	50.0	(20.00) 20.00	(1:1)	1mL	1 ____	0.5 ____	Use 23C0071-05
BLC0109-MSD1	50.0	(20.00) 20.00	(1:1)	1mL	1 ____	0.5 ____	Use 23C0071-05
BLC0109-SRM1	100.0	~~(10.00)~~ (1.00) 1.00	(1:1)	1mL	1 ____	0.5 ____	Use K003477

+1g DI WATER

CR 3/7/23 — Client ID verified By / Date

LJ 3/10/23 — Preparation Reviewed By / Date

03/07/23 03/06/23 1045 — Extraction Date and Time

3/7/23

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BLC0109

Prepared using: EPA 3546 (Microwave)

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

WO Comments
23C0071: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM I009127 PCB RM J006840-43, 7935-36,K011477-79, MS/MSD </E>
<H>BPR J006840-43, 7935-36, K011477-79, Dup </H> Store in freezer (except GS)

Prep Steps

Microwave
1 2 3
CR 3/7/23
Analyst/Date

Pre-GPC KD
100°C
Exchange to Hexane
(add 10 mL to KD)
0 2 4 5 6
LD 3-8
Analyst/Date

TurboVap
Pre GPC
1 2 3 4 5
NRB 3/8/23
Analyst/Date

Post GPC KD
80-85°C
1 0 2 4 5 6
LD 3-10
Analyst/Date

TurboVap
1 2 3 4 5
LJ 3/10/23
Analyst/Date

Water Wash
LJ 3/10/23
Analyst/Date

Reagents Used

Station/Reagent	Standard ID
Microwave Analyst: CR Date: 3/7/23	
Anhydrous Sodium Sulfate	L002114
1:1 Methylene Chloride/Acetone	L001416
Methylene Chloride	K005941
Pre-Deactivated Glass Wool	L001923
Pre GPC KD Analyst: LD Date: 3-8-23	
Pre-Deactivated Glass Wool	
Anhydrous Sodium Sulfate	
Methylene Chloride	K005158
Hexane	L000089
GPC Filter Prep Analyst: NRB Date: 3/8/23	
Methylene Chloride	K005158
GPC Filter	L001799
GPC Analyst: LJ for NRB Date: ~~LD~~ 3/9/23	
Methylene Chloride	K005941
GPC Calibration File	CUB032-GPC2
Post GPC KD Analyst: LD Date: 3-10-23	
Methylene Chloride	K005941
Vialing Analyst: LJ Date: 3/10/23	
Methylene Chloride	K005941

Surrogates & Spike Standards Used

Type	Vial ID / Standard ID	Vol uL	Analyst	Witness
Surrogate 100/150µg/mL	A L001153 Exp Date: 8/1/23	50µL	CR	✓
Full List Spike (Freezer) 100µg/mL	7 L001812 (V) Exp Date: L001781 8/4/23	50µL	CR	✓
Base Spike 200µg/mL	56 L001812 (V) Exp Date: L001778 8/20/23	50µL	CR	✓
Acid Spike 100/200µg/mL	38 L001812 (V) Exp Date: L001779 8/20/23	50µL	CR	✓

MANUALLY ENTER EXPIRATION DATES!

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

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

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BLC0109

Prepared using: EPA 3546 (Microwave)

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

WO Comments
23C0071: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM I009127 PCB RM J006840-43, 7935-36,K011477-79, MS/MSD </E>
<H>BPR J006840-43, 7935-36, K011477-79, Dup </H> Store in freezer (except GS)

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

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Laboratory Analyst Notes

Extraction Parameter: SVOA Extraction Batch: BLC0009

Total Solids Batch: BLC0085 Work Order(s): 23C0071

Screens: Soil/Sediment/Solid/Other:	Analyst/Date
☒ No Anomalies (standard soil/wet sediment/sand/gravel)= 01-06, 08-10	CR 3/31/23
☒ Standing Water Decanted (Not shared)= 01-06, 08-10	CR 3/31/23
☐ Standing Water Homogenized (Shared samples)=	
☐ Clay/Clumps (Difficult to homogenize)=	
☐ Rocks (%+size)?	
☐ Organics (Leaves/sticks/grass)=	
☐ Oily, obvious fuel/sulfur odors=	
☐ Received in 32oz jar(s)=Homogenized in Pyrex dish=	
☒ Previously Frozen = 01-06, 08-10	CR 3/31/23
☐ Other (Details)=	
Aqueous:	
☐ No Anomalies	
☐ Turbid/Color=	
☐ Particulates(%)=(Note: >5%=Notify Supervisor/Lead)	
☐ Emulsions (%)=	
☐ Oily, obvious fuel/sulfur odors=	
☐ Other (Details)=	
☐ Received in 1.0L Bottle(s)=No Bottle Rinse=	
☐ Other Notes/Comments= (Note problems, concerns, corrective actions).	
☒ Share Samples (Y) / N 01-06, 08-10	CR 3/31/23
☒ Multiple Jars Y / (N)	CR 3/31/23
☐ Sample Pre-Screens indicate analyte activity=	
☐ Sample weights/volumes reduced based on Pre-Screen=	

BLC0043

Date:2023-03-09,12:52:13 PM
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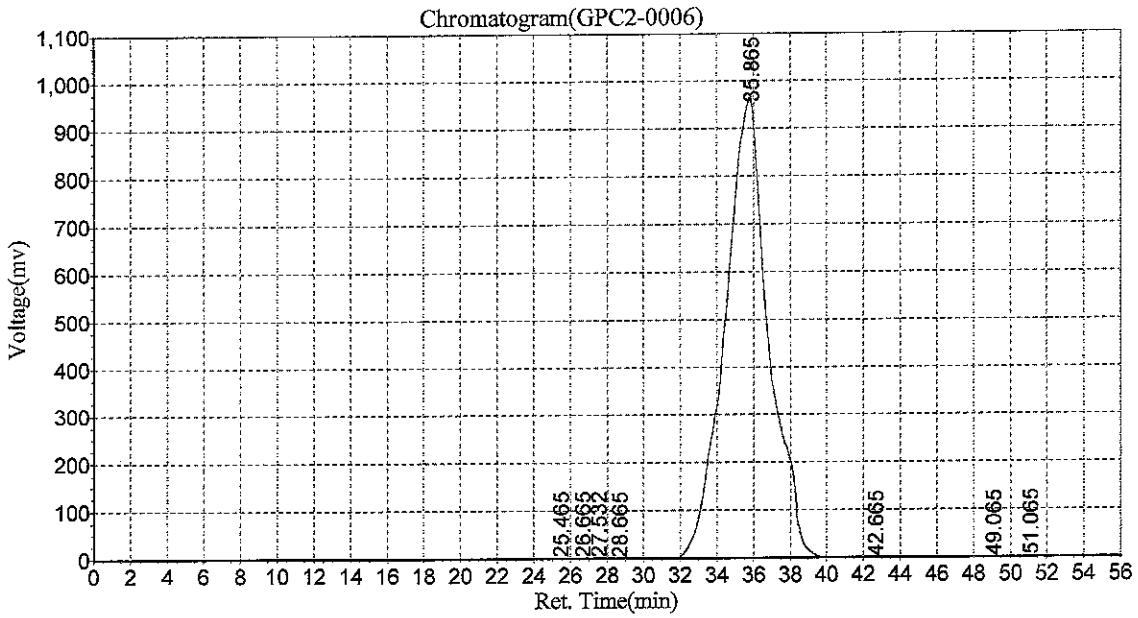
Method File:E:\GPC2_InHouse.mtd

Analyst£°SH
Date/Time2023-03-09,12:52:14 PM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		25.465	2156.607	100313.992	0.0598
2		26.665	2412.168	188025.063	0.1120
3		27.532	2525.685	125483.969	0.0748
4		28.665	2586.438	143241.906	0.0853
5		35.865	977540.813	166845632.000	99.3952
6		42.665	2297.881	127069.398	0.0757
7		49.065	1444.892	135929.547	0.0810
8		51.065	1911.676	195055.922	0.1162
Total			992876.160	167860751.797	100.000

Ingredient Table

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

BLC0043

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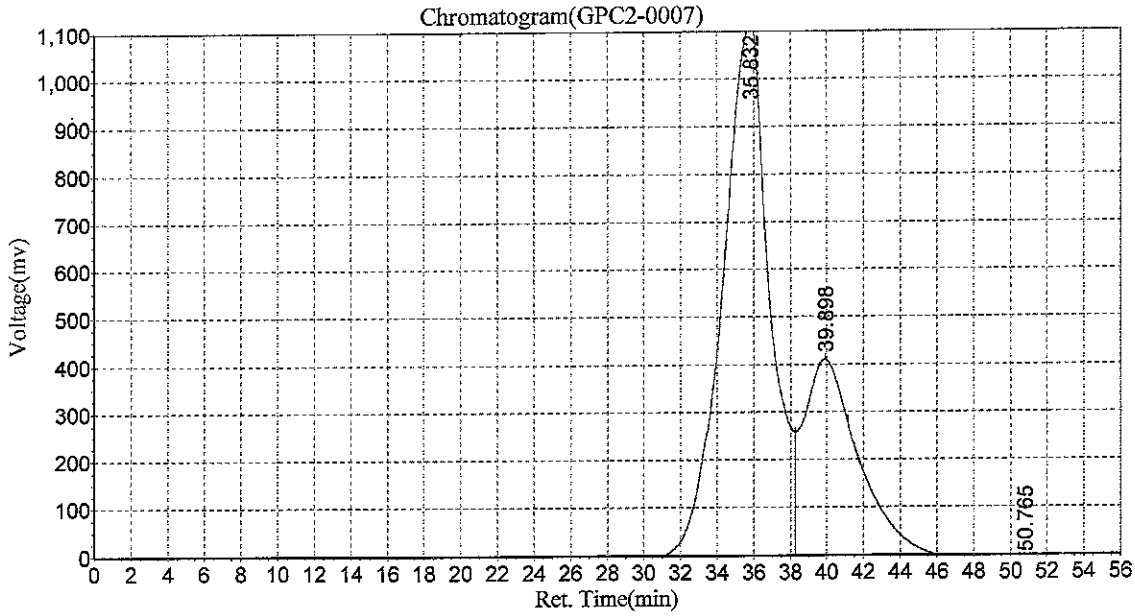

Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		35.832	1129210.000	201869872.000	69.0259
2		39.898	421316.531	90458768.000	30.9308
3		50.765	1706.715	126501.445	0.0433
Total			1552233.246	292455141.445	100.000

Ingredient Table

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

BLC0043

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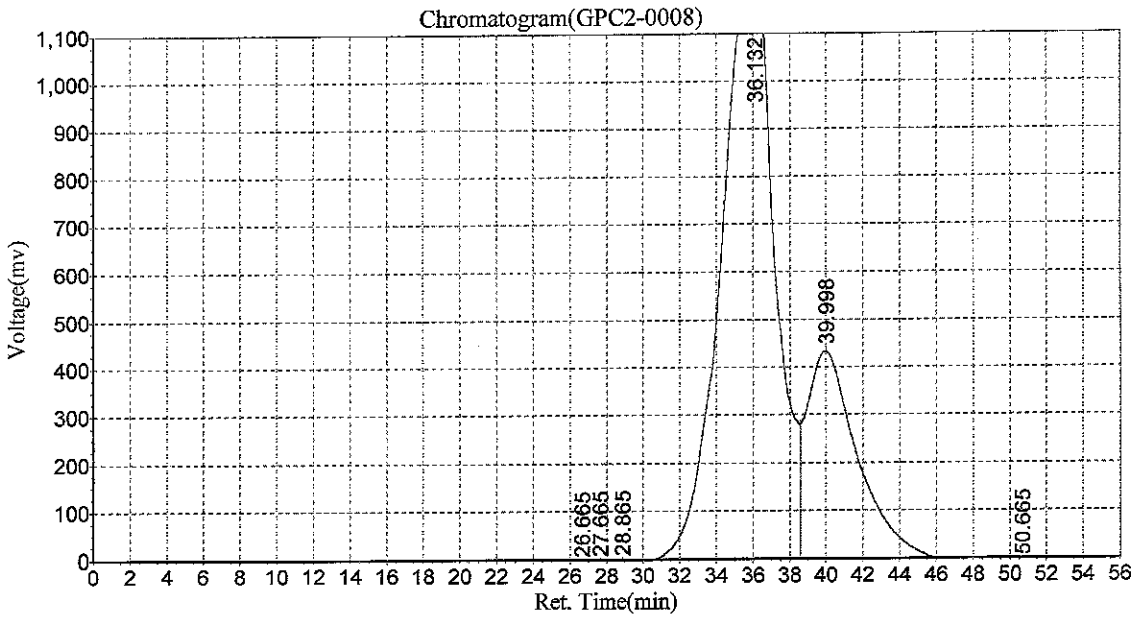

Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		26.665	2505.747	122681.117	0.0356
2		27.665	3544.728	193231.031	0.0561
3		28.865	4901.905	420066.000	0.1219
4		36.132	1239792.375	255268224.000	74.0801
5		39.998	444534.500	88379568.000	25.6482
6		50.665	2037.291	200271.063	0.0581
Total			1697316.546	344584041.211	100.000

Ingredient Table

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

BLC0043

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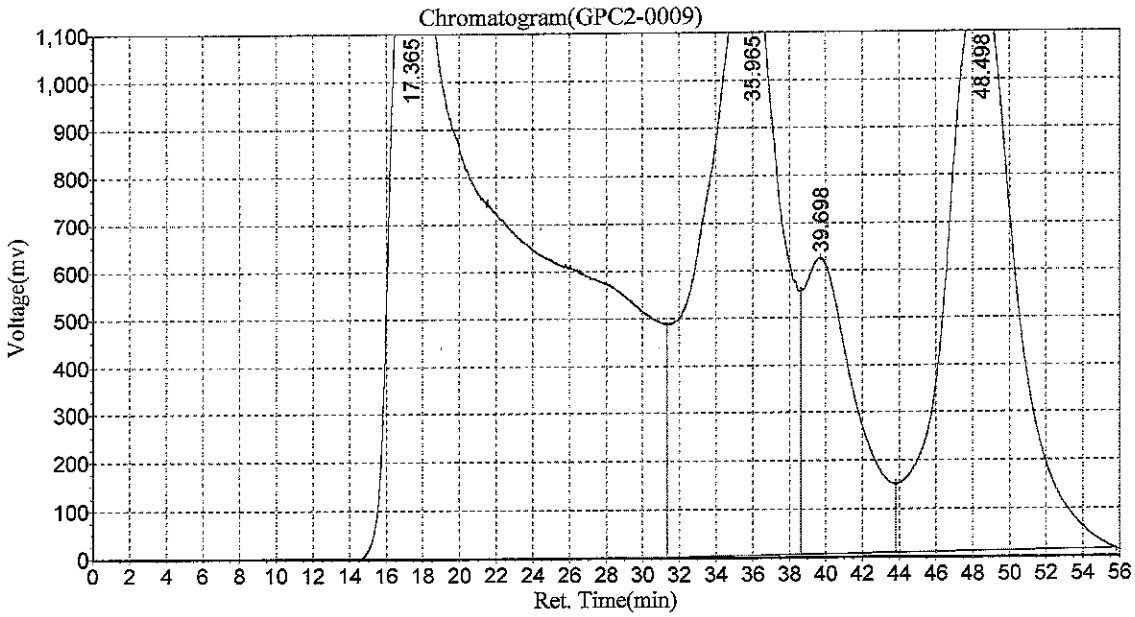

Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		17.365	1260273.875	702105472.000	46.8271
2		35.965	1243077.375	368032352.000	24.5460
3		39.698	617607.688	120657696.000	8.0473
4		48.498	1167432.125	308562208.000	20.5796
Total			4288391.063	1499357728.000	100.000

Ingredient Table

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

BLC0043

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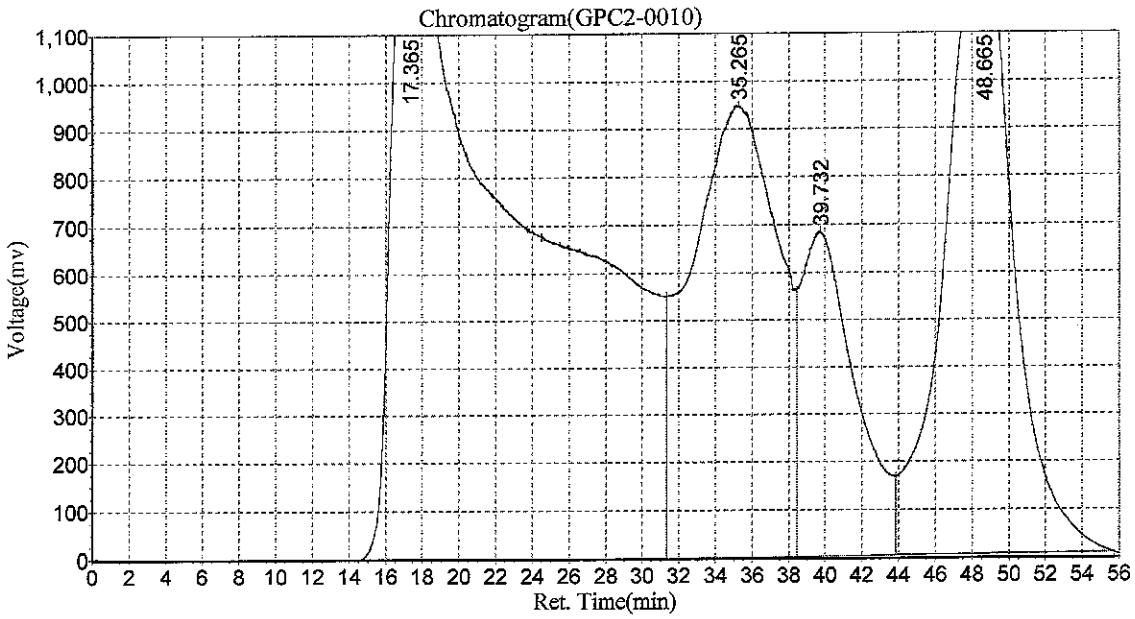

Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		17.365	1259001.250	734054528.000	48.2926
2		35.265	944885.313	315952768.000	20.7862
3		39.732	679486.125	139264976.000	9.1621
4		48.665	1235843.625	330740960.000	21.7591
Total			4119216.313	1520013232.000	100.000

Ingredient Table

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

BLC0043

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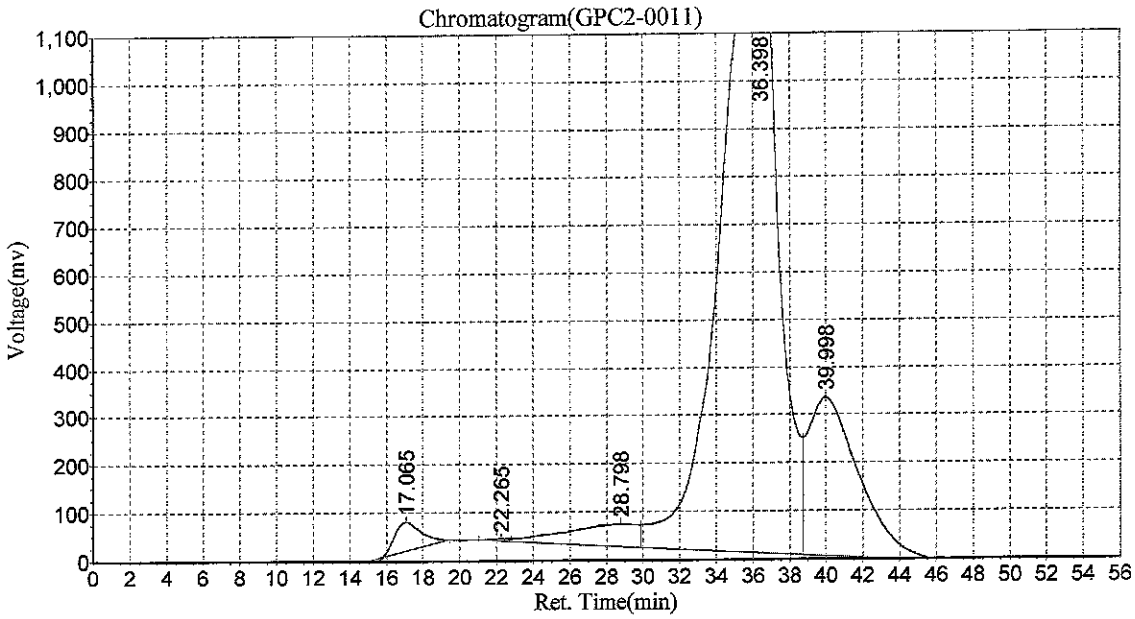

Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		17.065	60439.633	5907978.000	1.6239
2		22.265	6213.450	505256.375	0.1389
3		28.798	48488.629	13046308.000	3.5859
4		36.398	1217197.500	280906208.000	77.2096
5		39.998	330614.781	63457296.000	17.4418
Total			1662953.993	363823046.375	100.000

Ingredient Table

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

BLC0043

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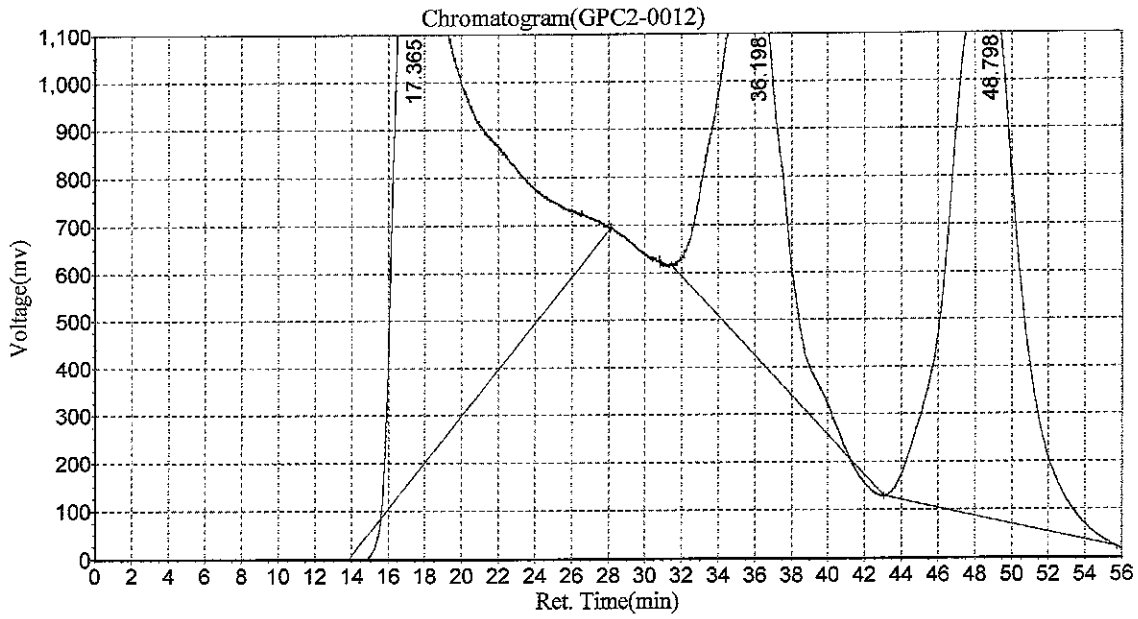

Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		17.365	1080934.375	371072672.000	42.5710
2		36.198	830852.375	199690960.000	22.9094
3		48.798	1154869.625	300892288.000	34.5196
Total			3066656.375	871655920.000	100.000

Ingredient Table

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

BLC0043

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Analyst£°SH
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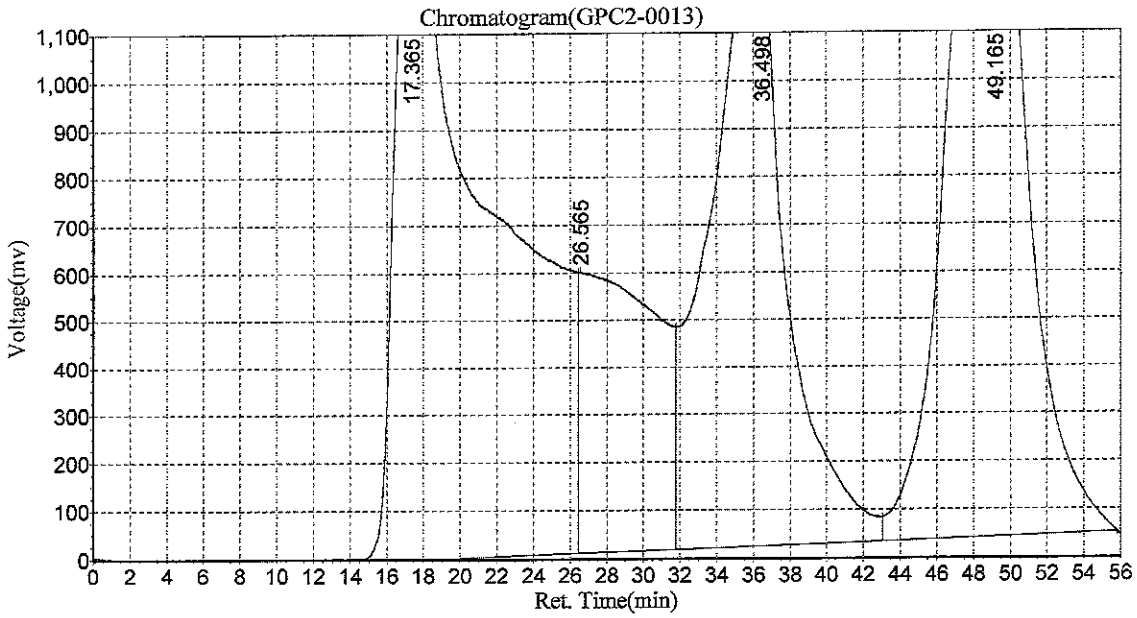

Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		17.365	1253775.125	519730112.000	35.0985
2		26.565	589688.500	170576784.000	11.5194
3		36.498	1221164.875	368649760.000	24.8957
4		49.165	1207726.875	421821216.000	28.4865
Total			4272355.375	1480777872.000	100.000

Ingredient Table

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

BLC0043

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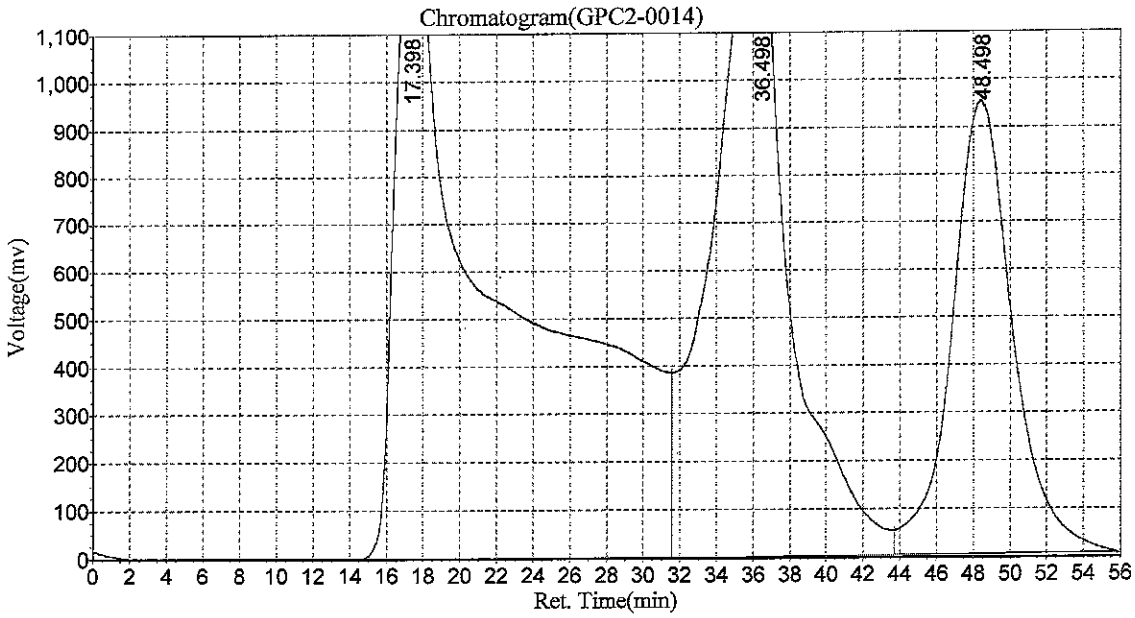

Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		17.398	1257495.500	563697088.000	48.2812
2		36.498	1245579.625	387932480.000	33.2268
3		48.498	946933.563	215900464.000	18.4921
Total			3450008.688	1167530032.000	100.000

Ingredient Table

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

BLC0043

Date:2023-03-09,9:31:44 PM
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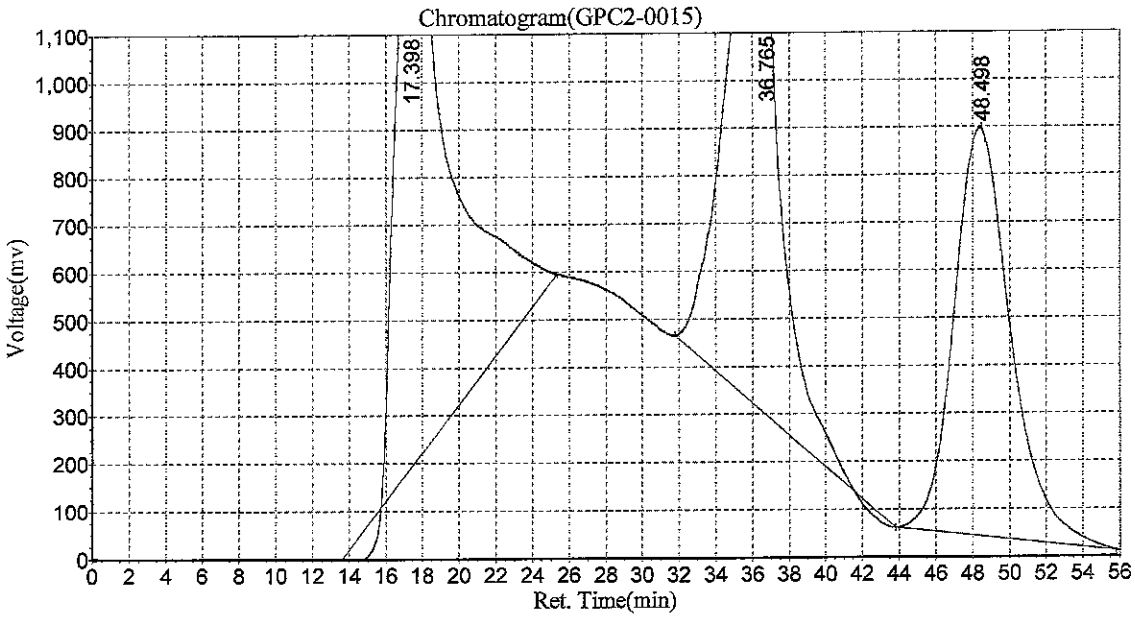

Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		17.398	1062027.625	249605472.000	38.5832
2		36.765	950242.375	214498864.000	33.1565
3		48.498	854618.375	182823520.000	28.2603
Total			2866888.375	646927856.000	100.000

Ingredient Table

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

BLC0043

Date:2023-03-09,10:29:26 PM
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Analyst£°SH
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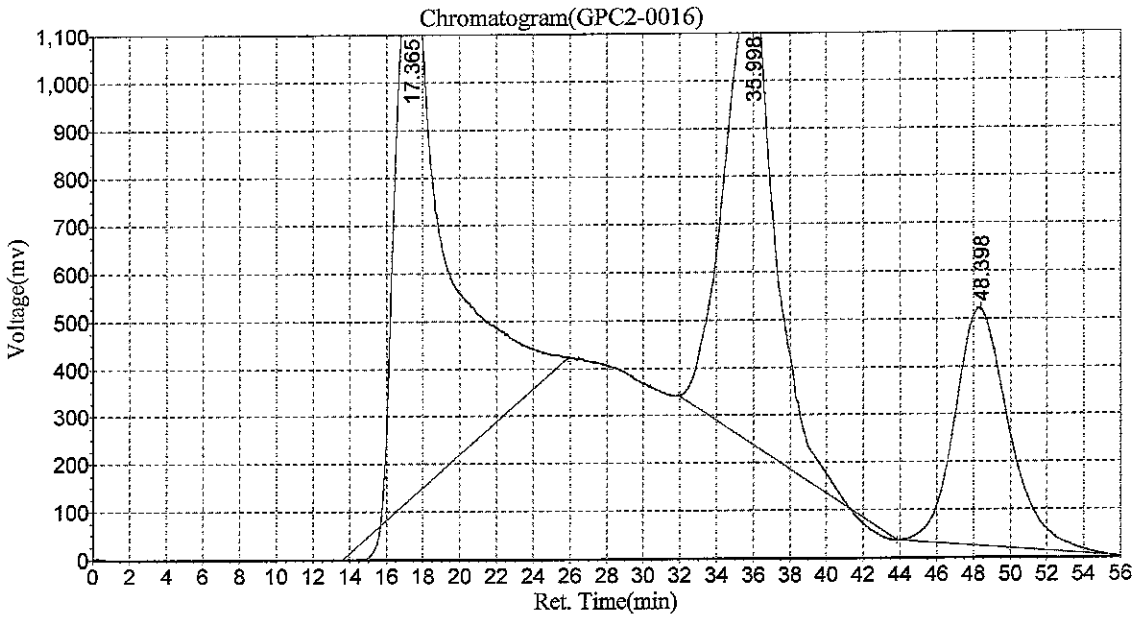

Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		17.365	1124669.375	221464576.000	43.6002
2		35.998	968199.250	184218864.000	36.2676
3		48.398	496592.656	102260032.000	20.1322
Total			2589461.281	507943472.000	100.000

Ingredient Table

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

BLC0043

Date:2023-03-09,11:27:09 PM
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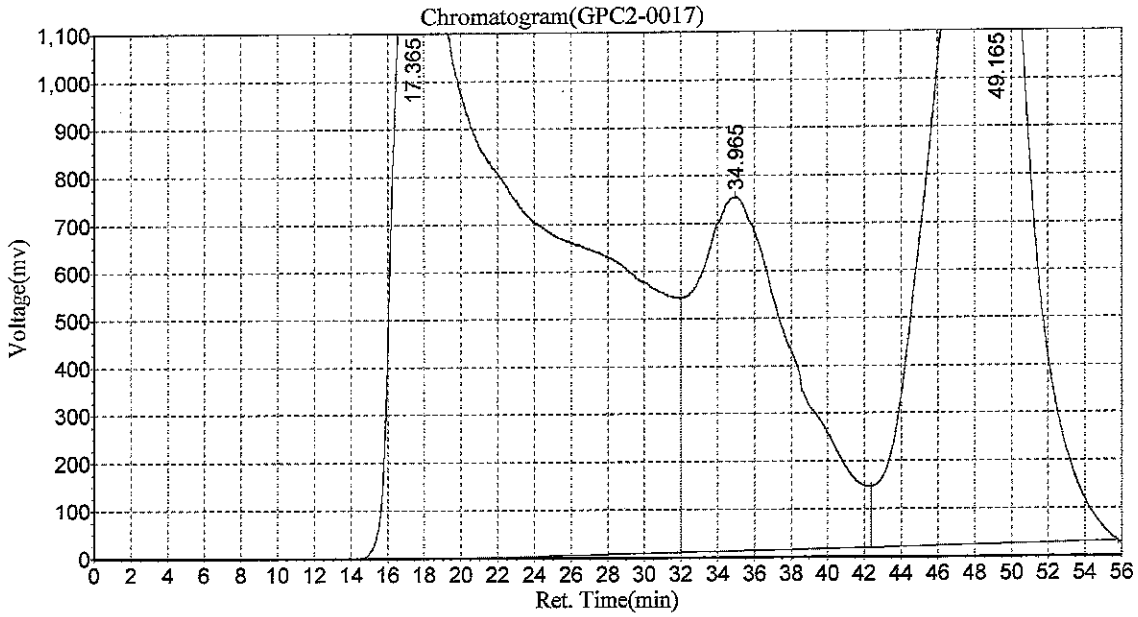
Analyst£°SH
Date/Time2023-03-09,11:27:10 PM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		17.365	1255339.250	769395840.000	49.1353
2		34.965	741139.563	282128800.000	18.0174
3		49.165	1226757.875	514346624.000	32.8473
Total			3223236.688	1565871264.000	100.000

Ingredient Table

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

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BATCH SUMMARY

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Cleanup Batch:	CLC0095	Cleanup Type:	GPC
Cleanup Method:	EPA 3640A GPC Cleanup 1:1	Analysis:	EPA 8270E-SIM

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW23-SS1037	23C0071-02	NT1003212311S.D	03/10/2023	
LDW23-SS1054	23C0071-06	NT1003212317S.D	03/10/2023	
LDW23-SS1044	23C0071-04	NT1003212313S.D	03/10/2023	
LDW23-SS1036	23C0071-03	NT1003212312S.D	03/10/2023	
Blank	BLC0109-BLK2	NT1003212306S.D	03/10/2023	
LDW23-SS1000	23C0071-01	NT1003212310S.D	03/10/2023	
LCS	BLC0109-BS2	NT1003212307S.D	03/10/2023	
LCS Dup	BLC0109-BSD2	NT1003212308S.D	03/10/2023	
Matrix Spike	BLC0109-MS2	NT1003212315S.D	03/10/2023	
Matrix Spike Dup	BLC0109-MSD2	NT1003212316S.D	03/10/2023	
Reference	BLC0109-SRM2	NT1003212309S.D	03/10/2023	
LDW23-SS1048	23C0071-05	NT1003212314S.D	03/10/2023	

Analytical Resources, LLC
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CLEANUP BENCH SHEET

CLC0095

Matrix: Solid **Cleanup using: Organics - EPA 3640A GPC Cleanup 1:1** **Check Standard: CLB0132-GPC2** **Printed: 3/10/2023 4:11:41PM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
23C0071-01	A	LDW23-SS1000	A 02	1	1	SVOC (20ug/kg solid or 0.2ug/L low H2	3/10/2023	LMJ	
23C0071-01	A	LDW23-SS1000	A 04	1	1	8270E-SIM Dual Scan SVOC	3/10/2023	LMJ	
23C0071-02	A	LDW23-SS1037	A 02	1	1	SVOC (20ug/kg solid or 0.2ug/L low H2	3/10/2023	LMJ	
23C0071-02	A	LDW23-SS1037	A 04	1	1	8270E-SIM Dual Scan SVOC	3/10/2023	LMJ	
23C0071-03	A	LDW23-SS1036	A 04	1	1	8270E-SIM Dual Scan SVOC	3/10/2023	LMJ	
23C0071-03	A	LDW23-SS1036	A 02	1	1	SVOC (20ug/kg solid or 0.2ug/L low H2	3/10/2023	LMJ	
23C0071-04	A	LDW23-SS1044	A 04	1	1	8270E-SIM Dual Scan SVOC	3/10/2023	LMJ	
23C0071-04	A	LDW23-SS1044	A 02	1	1	SVOC (20ug/kg solid or 0.2ug/L low H2	3/10/2023	LMJ	
23C0071-05	A	LDW23-SS1048	A 02	1	1	SVOC (20ug/kg solid or 0.2ug/L low H2	3/10/2023	LMJ	
23C0071-05	A	LDW23-SS1048	A 04	1	1	8270E-SIM Dual Scan SVOC	3/10/2023	LMJ	
23C0071-06	A	LDW23-SS1054	A 04	1	1	8270E-SIM Dual Scan SVOC	3/10/2023	LMJ	
23C0071-06	A	LDW23-SS1054	A 02	1	1	SVOC (20ug/kg solid or 0.2ug/L low H2	3/10/2023	LMJ	
BLC0109-BLK1	-	Blank	-	1	1	-	3/10/2023	LMJ	
BLC0109-BLK2	-	Blank	-	1	1	-	3/10/2023	LMJ	
BLC0109-BS1	-	LCS	-	1	1	-	3/10/2023	LMJ	
BLC0109-BS2	-	LCS	-	1	1	-	3/10/2023	LMJ	
BLC0109-BSD1	-	LCS Dup	-	1	1	-	3/10/2023	LMJ	
BLC0109-BSD2	-	LCS Dup	-	1	1	-	3/10/2023	LMJ	
BLC0109-MS1	-	Matrix Spike	-	1	1	-	3/10/2023	LMJ	
BLC0109-MS2	-	Matrix Spike	-	1	1	-	3/10/2023	LMJ	
BLC0109-MSD1	-	Matrix Spike Dup	-	1	1	-	3/10/2023	LMJ	
BLC0109-MSD2	-	Matrix Spike Dup	-	1	1	-	3/10/2023	LMJ	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BENCH SHEET

CLC0095

Matrix: Solid **Cleanup using: Organics - EPA 3640A GPC Cleanup 1:1** **Check Standard: CLB0132-GPC2** **Printed: 3/10/2023 4:11:41PM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
BLC0109-SRM1	-	Reference	-	1	1	-	3/10/2023	LMJ	
BLC0109-SRM2	-	Reference	-	1	1	-	3/10/2023	LMJ	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I

METHOD BLANK DATA SHEET

EPA 8270E-SIM

Blank

Laboratory:	Analytical Resources, LLC			SDG:	23C0071
Client:	Anchor QEA, LLC			Project:	AOC5 MR Phase 1
Matrix:	Solid	Laboratory ID:	BLC0109-BLK2	File ID:	NT1003212306S.D
Sampled:	N/A	Prepared:	03/07/23 10:21	Analyzed:	03/21/23 20:21
Solids:		Preparation:	EPA 3546 (Microwave)	Initial/Final:	10 g / 1 mL
Batch:	BLC0109	Sequence:	SLC0452	Calibration:	GC00049
Instrument:	NT10	Column:	ZB-5MSi	Cleanups:	GPC

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg wet)	Q	DL	RL
106-46-7	1,4-Dichlorobenzene	1	0.9	J	0.6	5.0
95-50-1	1,2-Dichlorobenzene	1	0.8	J	0.7	5.0
100-51-6	Benzyl Alcohol	1	20.0	U	2.5	20.0
65-85-0	Benzoic acid	1	100	U	13.4	100
105-67-9	2,4-Dimethylphenol	1	20.0	U	2.2	20.0
120-82-1	1,2,4-Trichlorobenzene	1	5.0	U	2.7	5.0
86-30-6	N-Nitrosodiphenylamine	1	5.0	U	1.3	5.0
87-86-5	Pentachlorophenol	1	20.0	U	2.1	20.0

SURROGATES	ADDED: (ug/kg wet)	FOUND: (ug/kg wet)	% REC	QC LIMITS	Q
2-Fluorophenol	750.00	399	53.2	27 - 120	
p-Terphenyl-d14	500.00	353	70.6	37 - 120	

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Date : 21-MAR-2023 20:21

Client ID:

Instrument: nt10.i

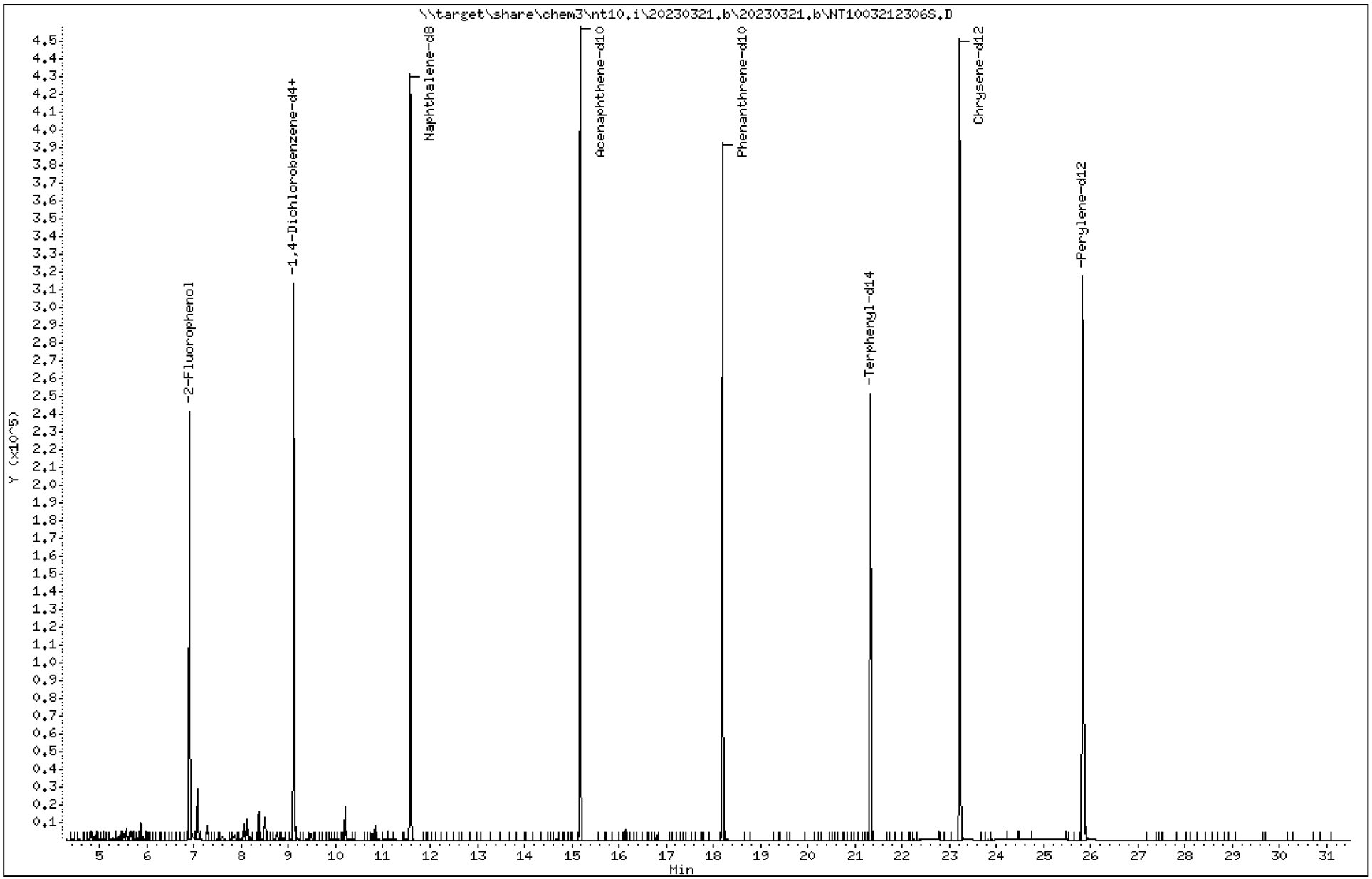
Sample Info: BLC0109-BLK2

Volume Injected (uL): 1.0

Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25



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Date : 21-MAR-2023 20:21

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BLK2

Volume Injected (uL): 1.0

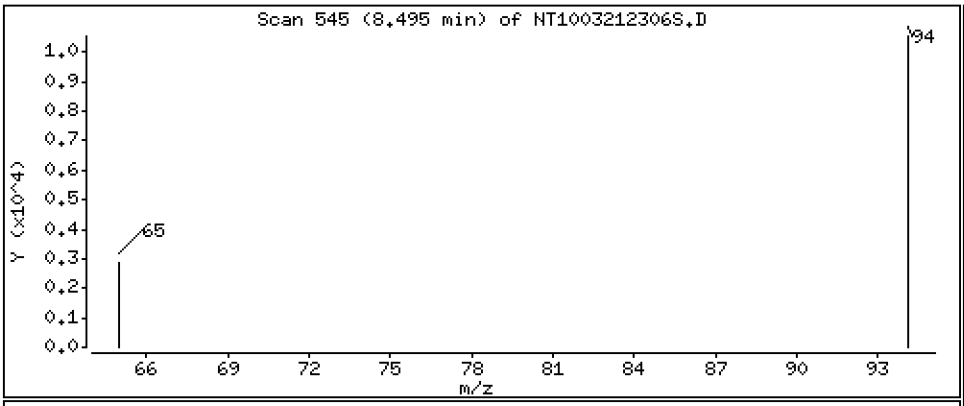
Operator: JGR

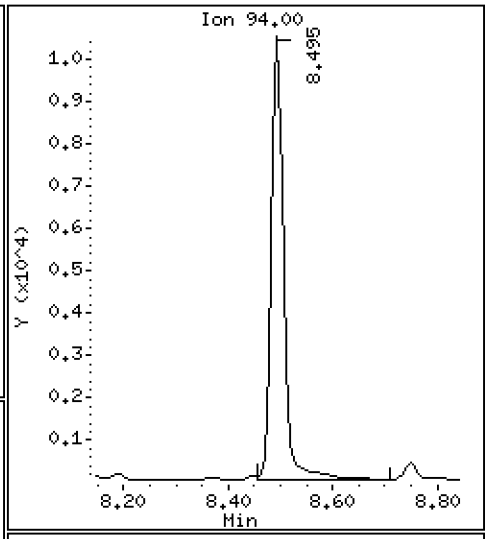
Column phase: ZB-5msi

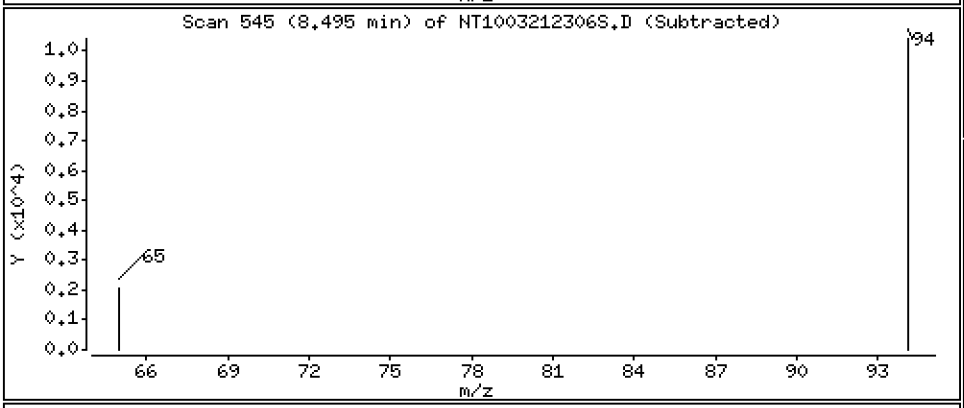
Column diameter: 0.25

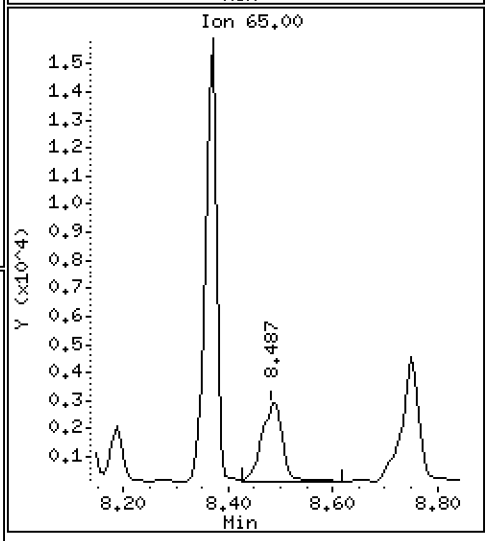
3 Phenol

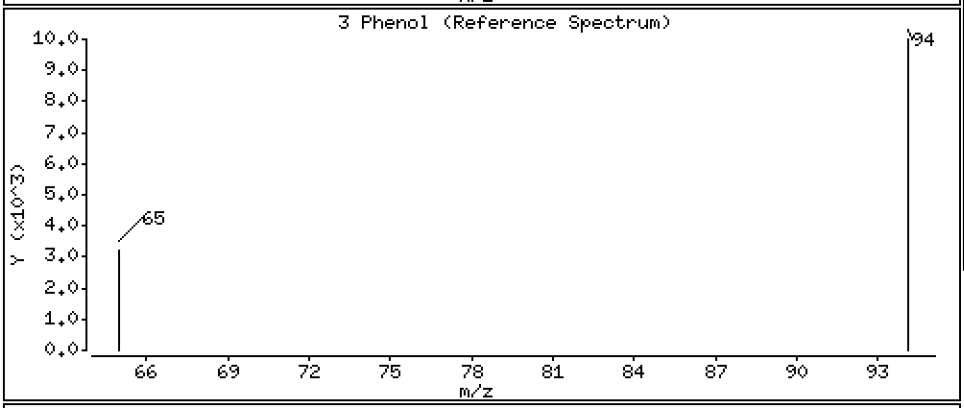
Concentration: 0.1991 ug/L

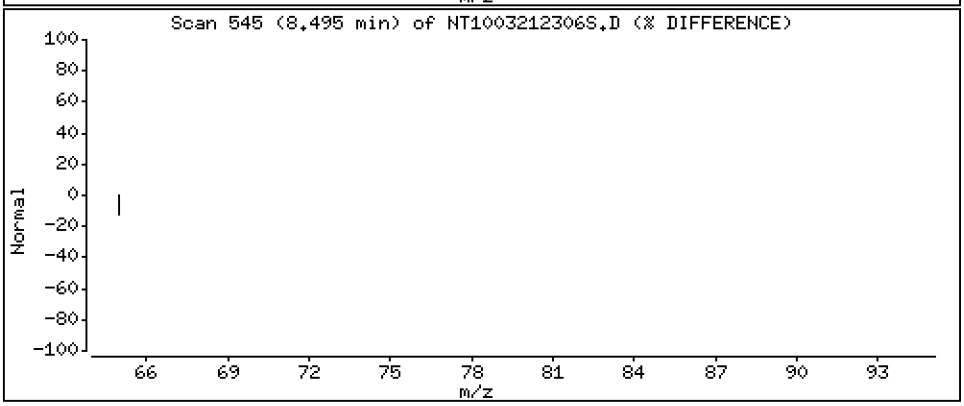












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Date : 21-MAR-2023 20:21

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BLK2

Volume Injected (uL): 1.0

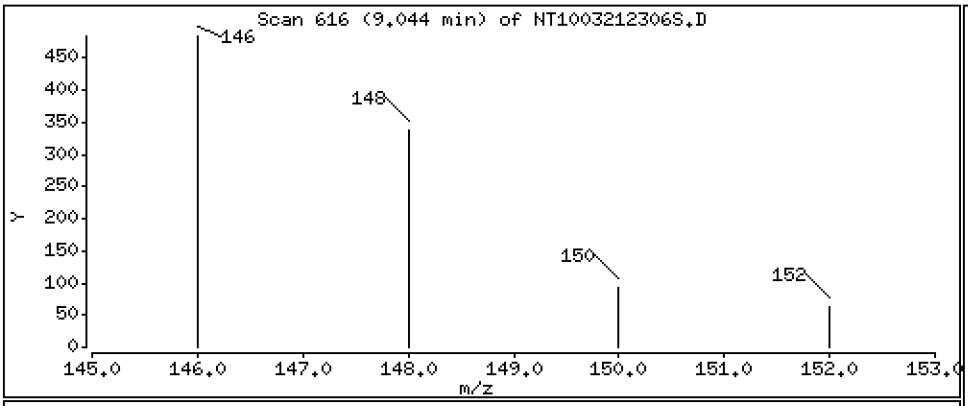
Operator: JGR

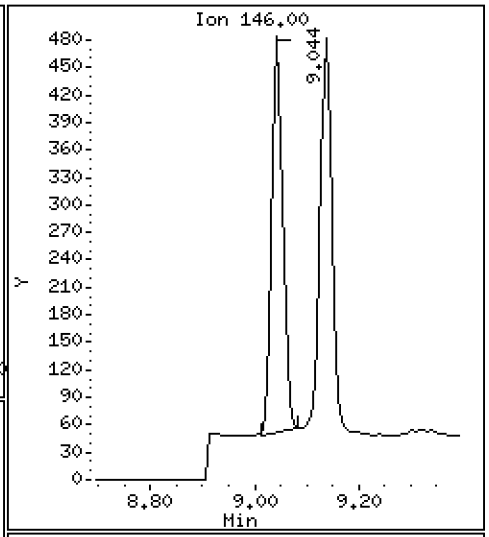
Column phase: ZB-5msi

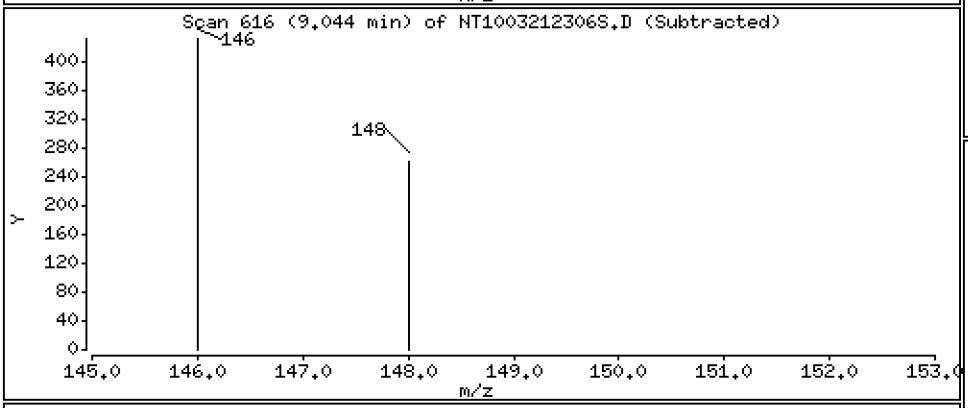
Column diameter: 0.25

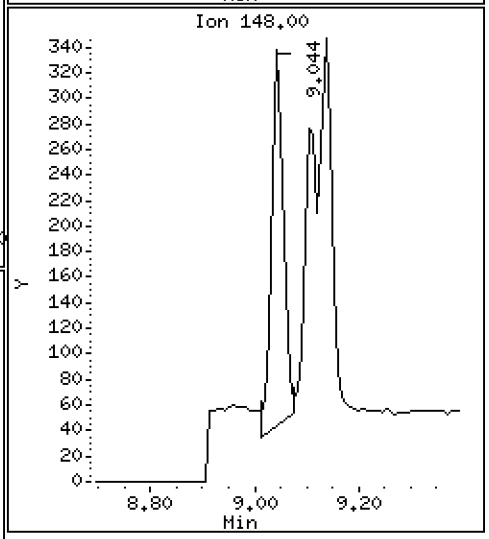
7 1,3-Dichlorobenzene

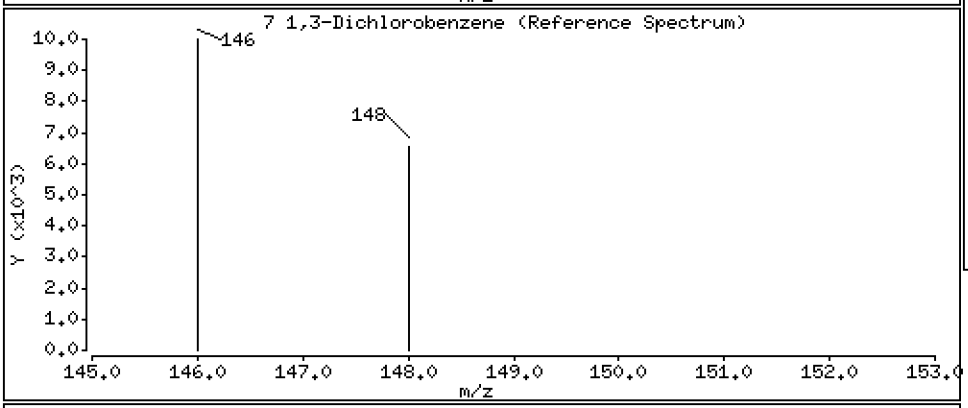
Concentration: 0.008241 ug/L

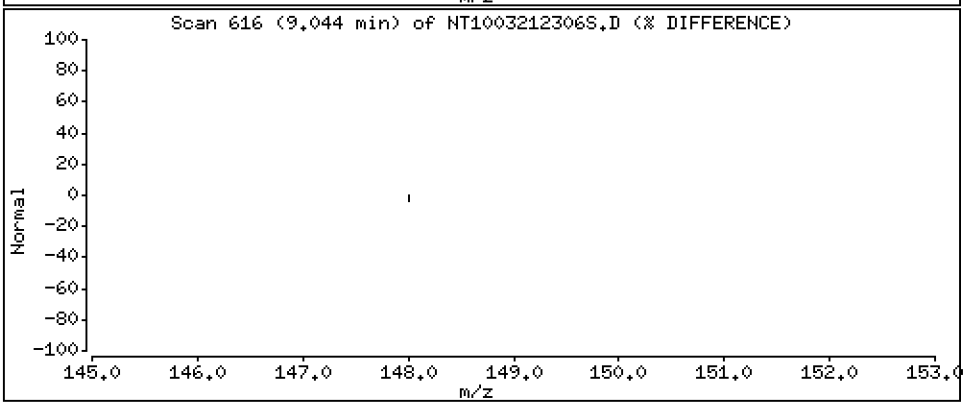












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Date : 21-MAR-2023 20:21

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BLK2

Volume Injected (uL): 1.0

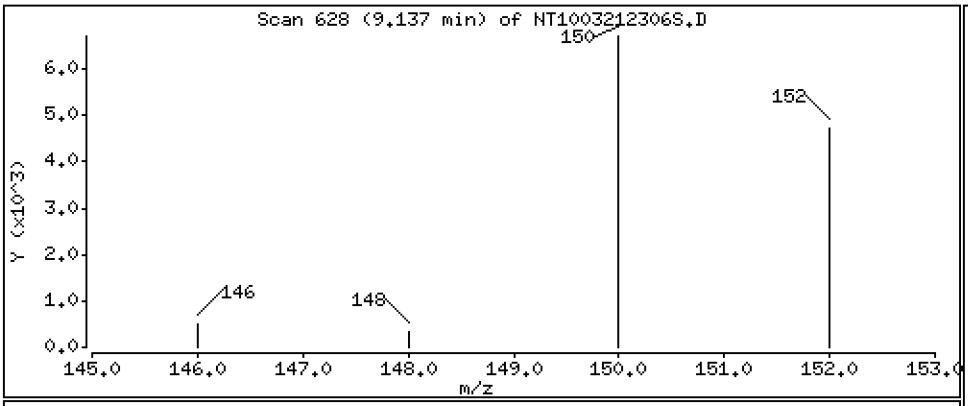
Operator: JGR

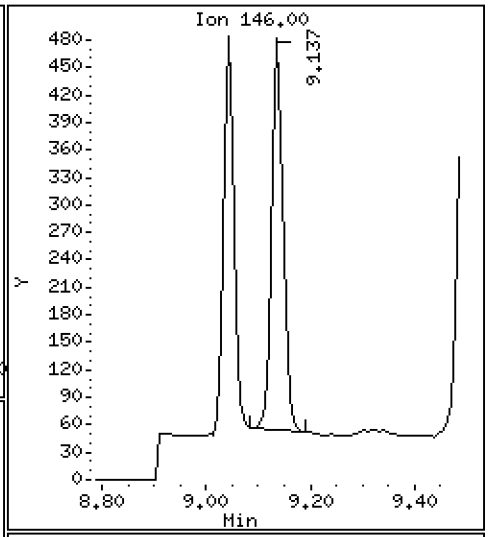
Column phase: ZB-5msi

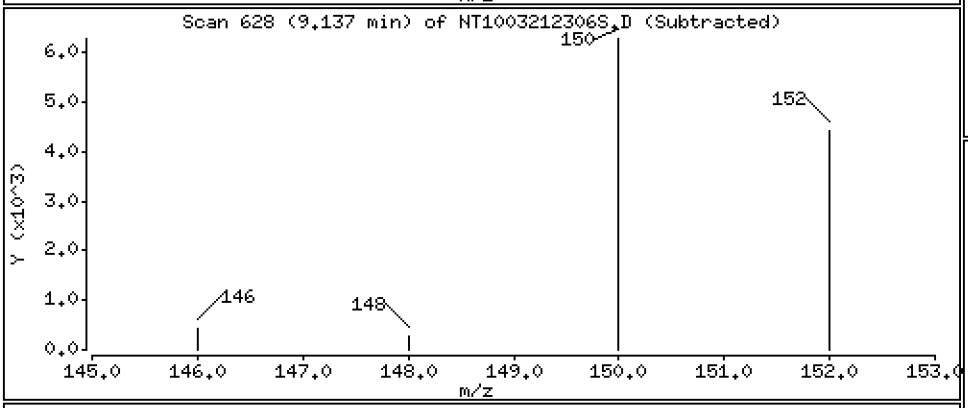
Column diameter: 0.25

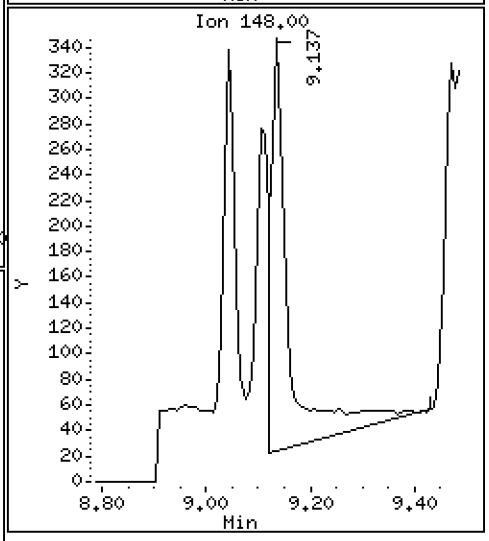
9 1,4-Dichlorobenzene

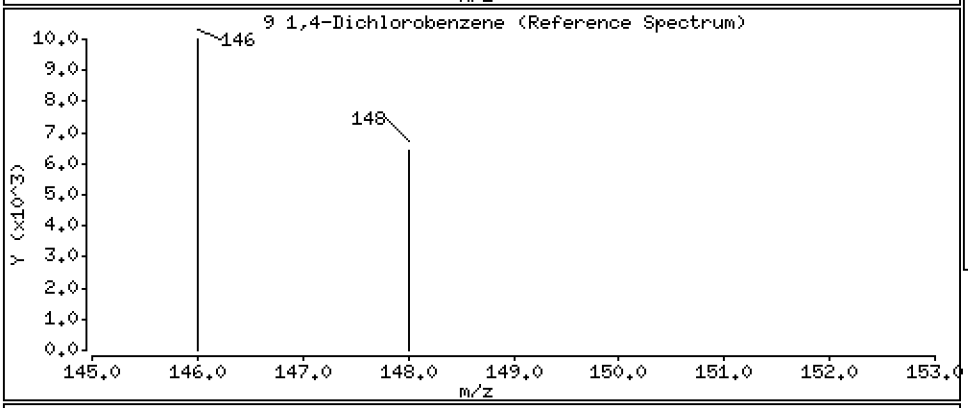
Concentration: 0.008647 ug/L

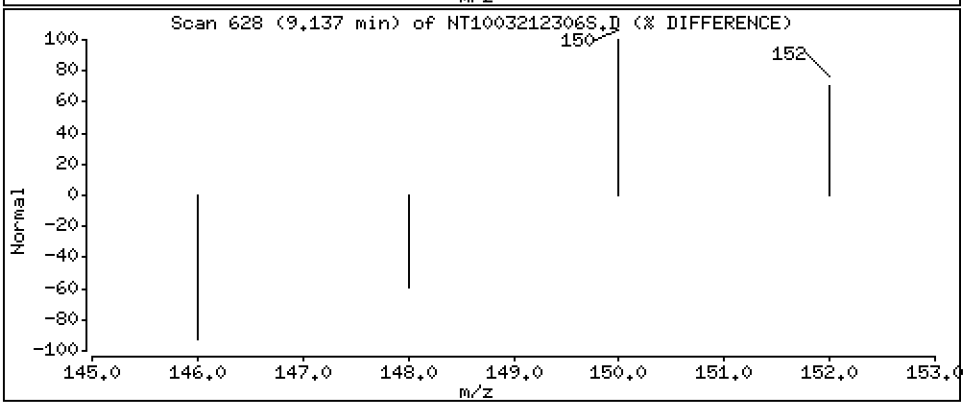












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Date : 21-MAR-2023 20:21

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BLK2

Volume Injected (uL): 1.0

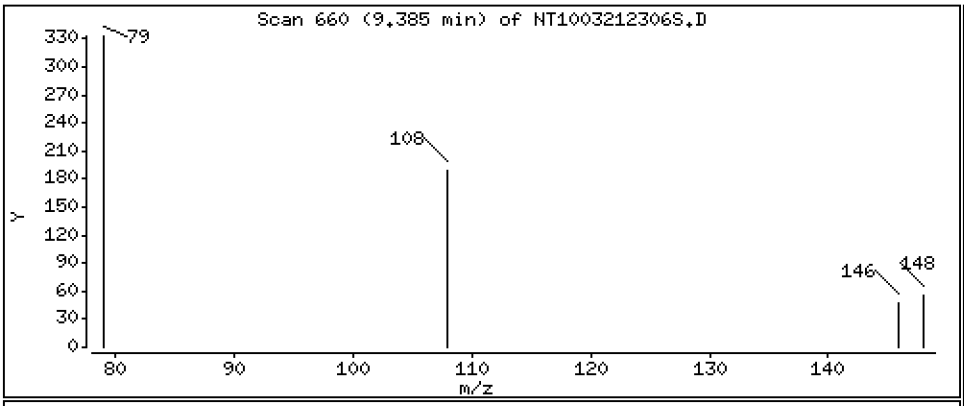
Operator: JGR

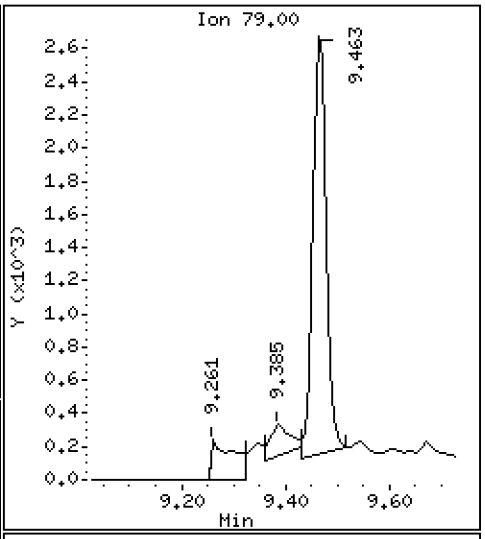
Column phase: ZB-5msi

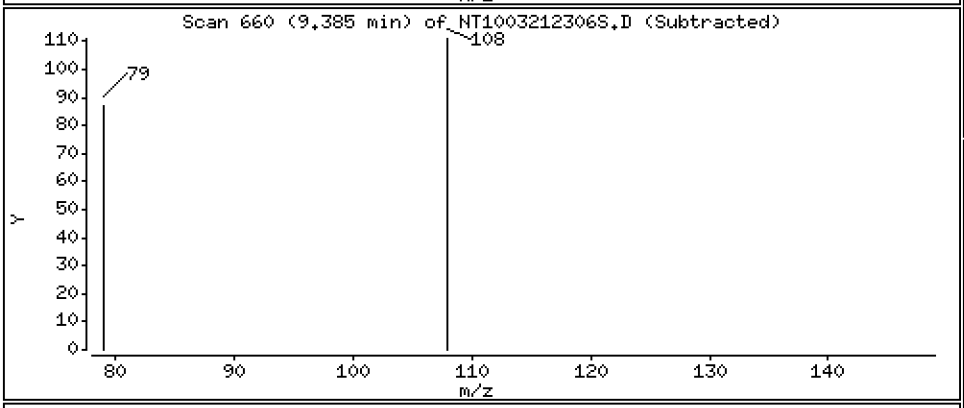
Column diameter: 0.25

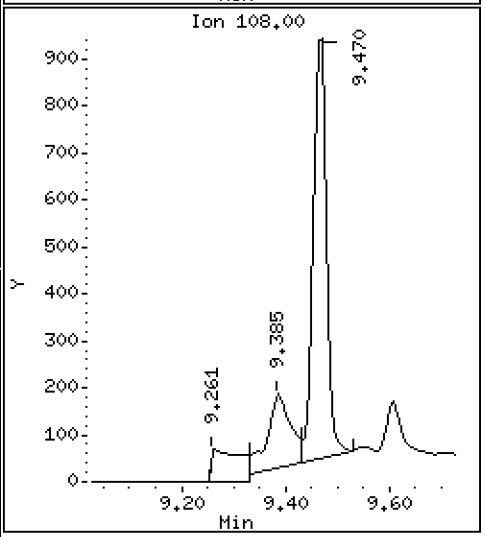
11 Benzyl alcohol

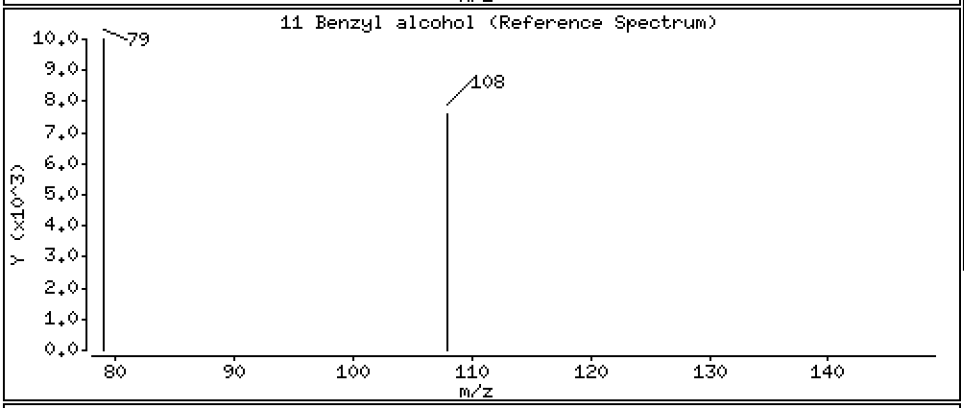
Concentration: 0.01055 ug/L

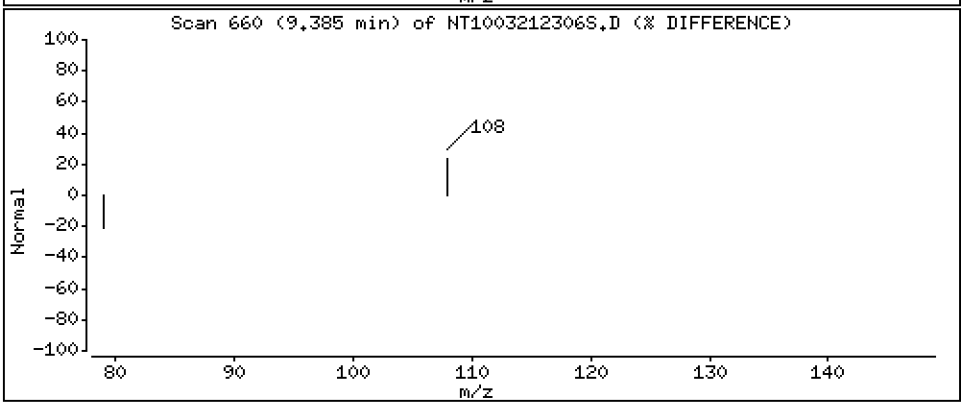












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Date : 21-MAR-2023 20:21

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BLK2

Volume Injected (uL): 1.0

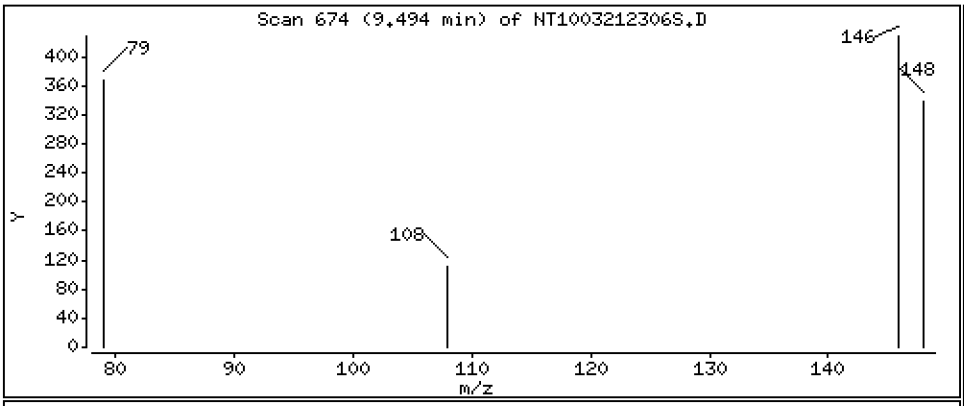
Operator: JGR

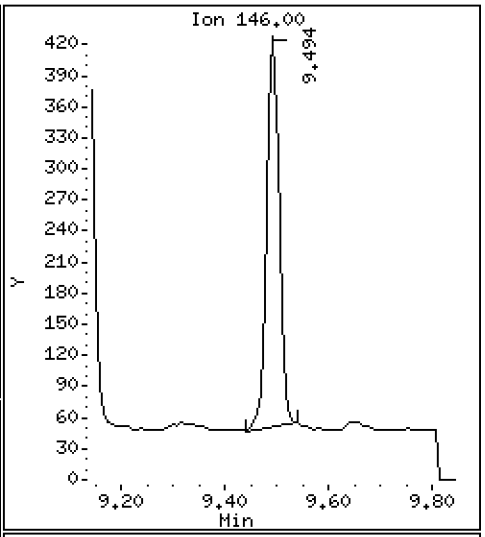
Column phase: ZB-5msi

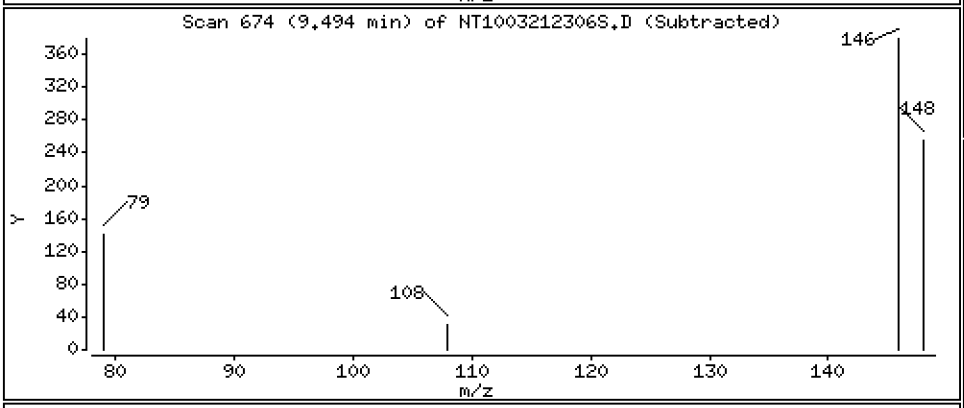
Column diameter: 0.25

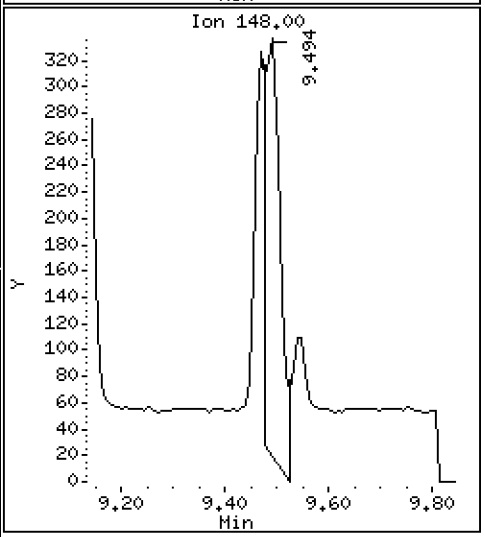
12 1,2-Dichlorobenzene

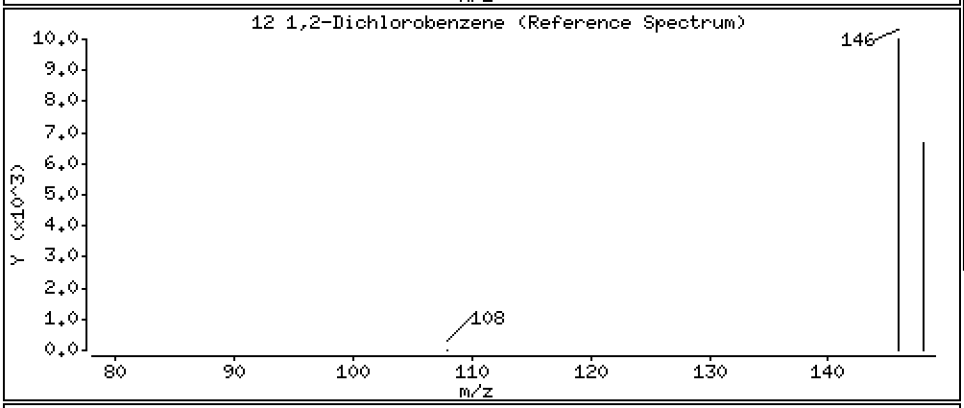
Concentration: 0.008222 ug/L

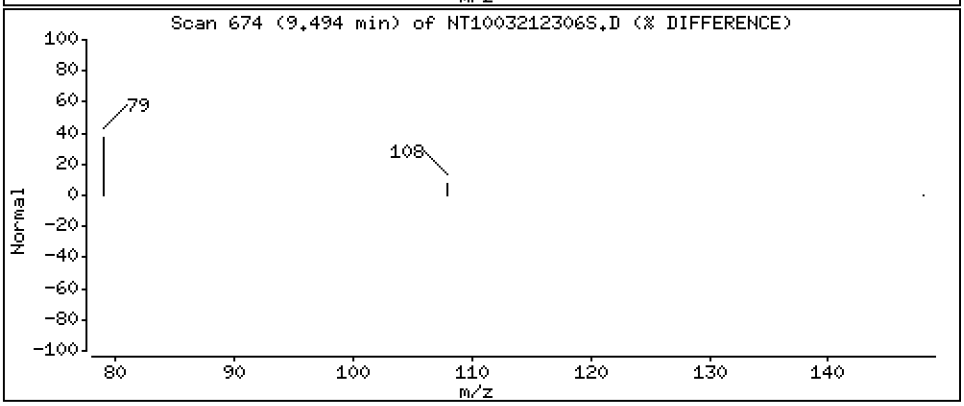












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT10032123065.D

Date : 21-MAR-2023 20:21

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BLK2

Volume Injected (uL): 1.0

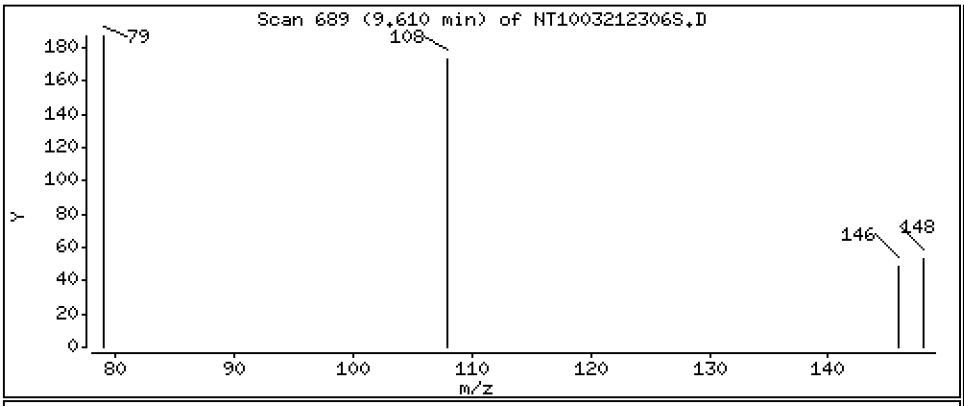
Operator: JGR

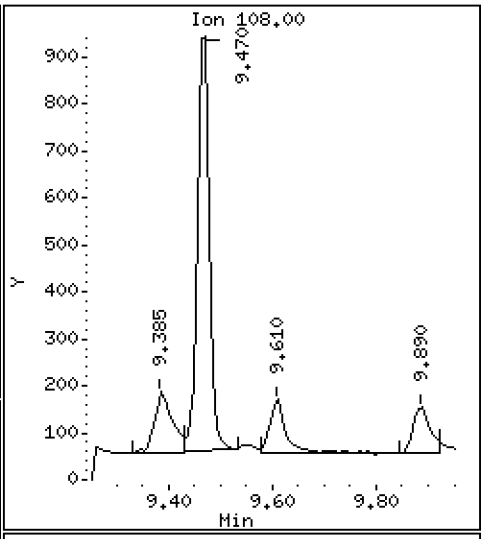
Column phase: ZB-5msi

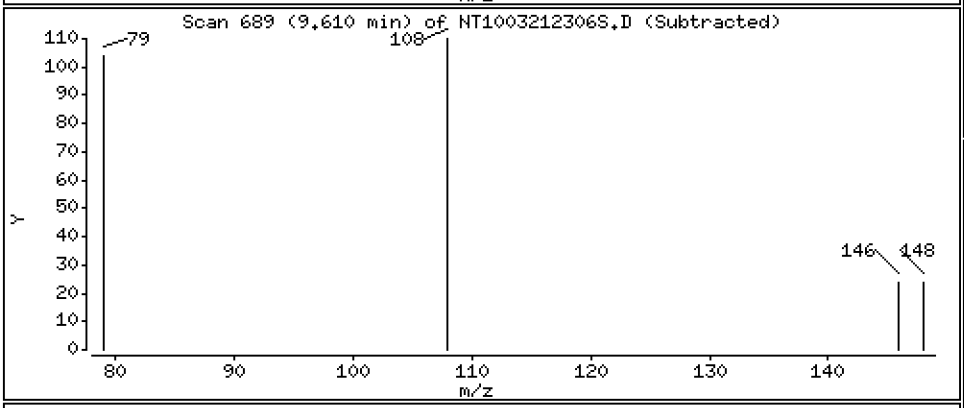
Column diameter: 0.25

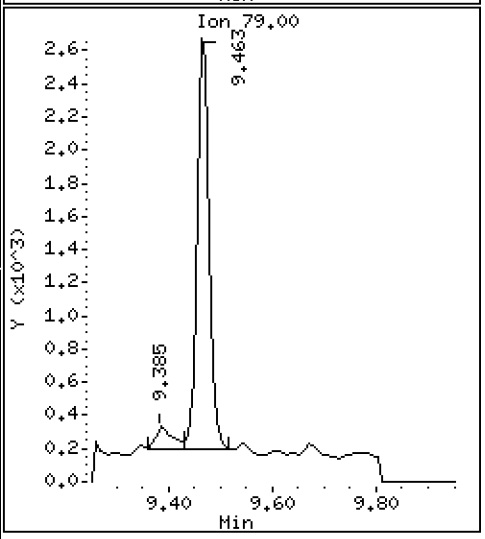
13 2-Methylphenol

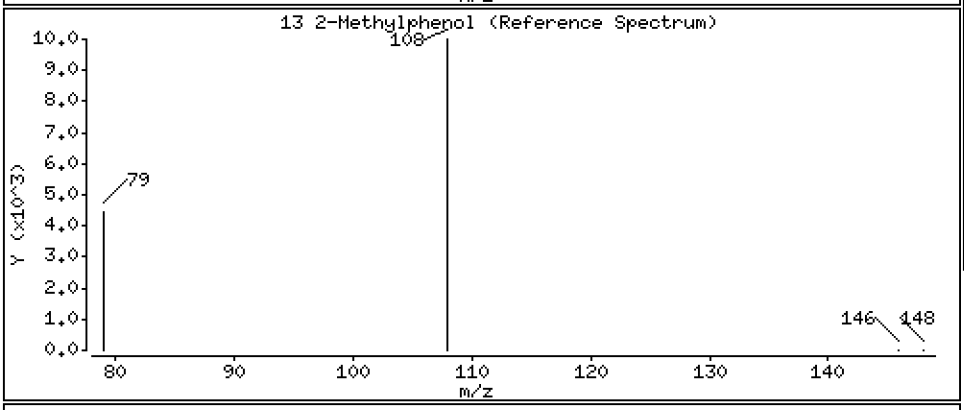
Concentration: 0.004013 ug/L

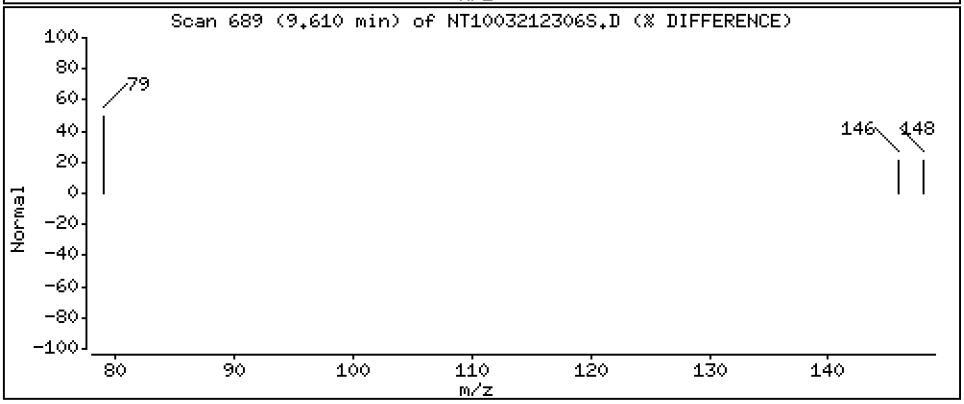












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212306S.D

Date : 21-MAR-2023 20:21

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BLK2

Volume Injected (uL): 1.0

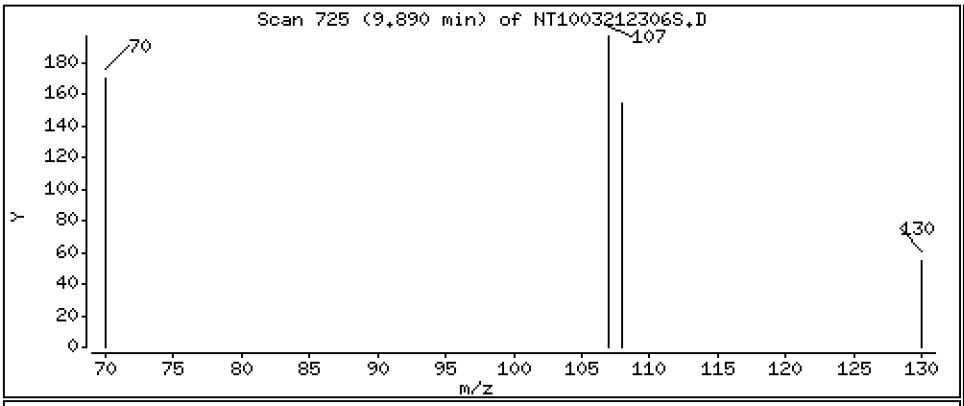
Operator: JGR

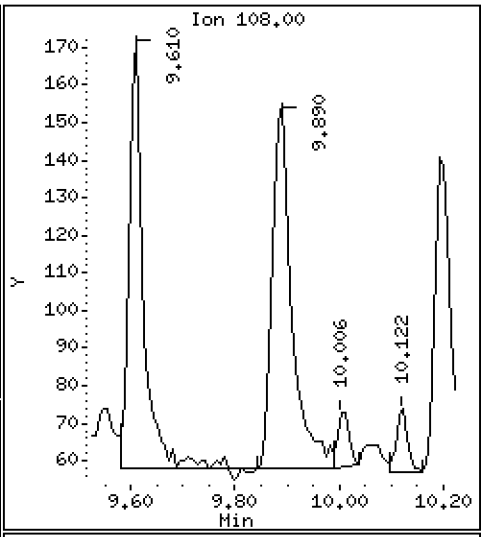
Column phase: ZB-5msi

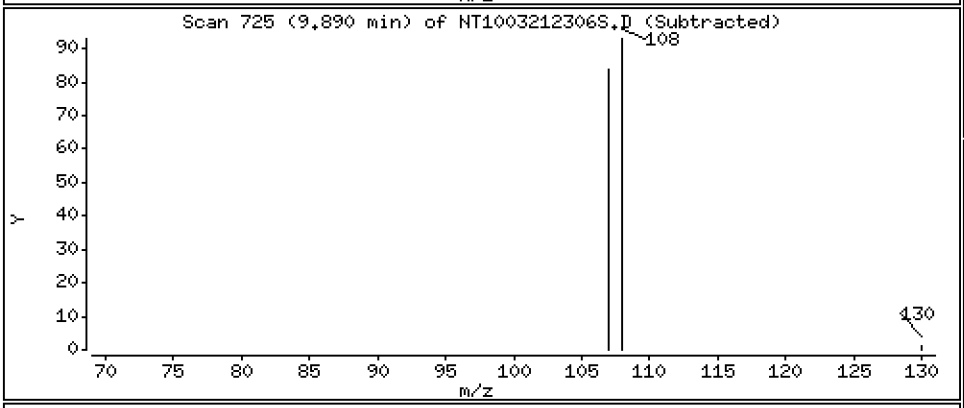
Column diameter: 0.25

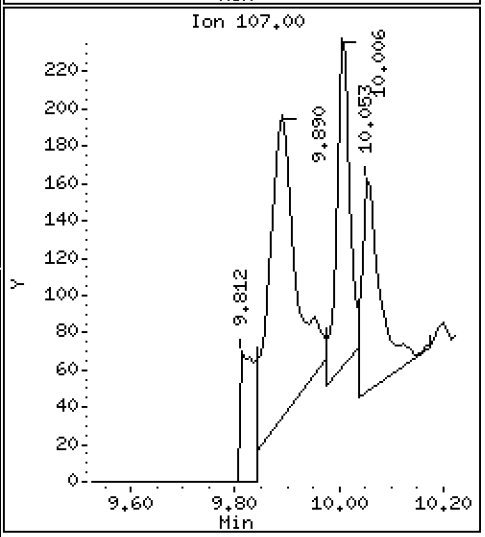
15 4-Methylphenol

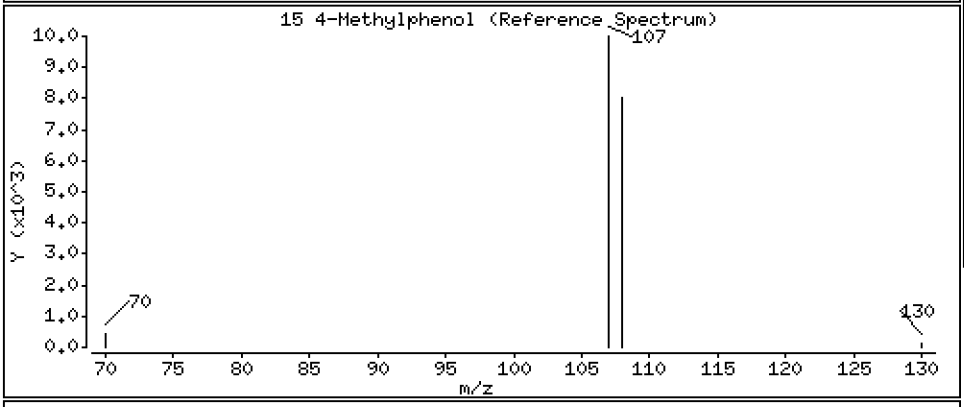
Concentration: 0.004394 ug/L

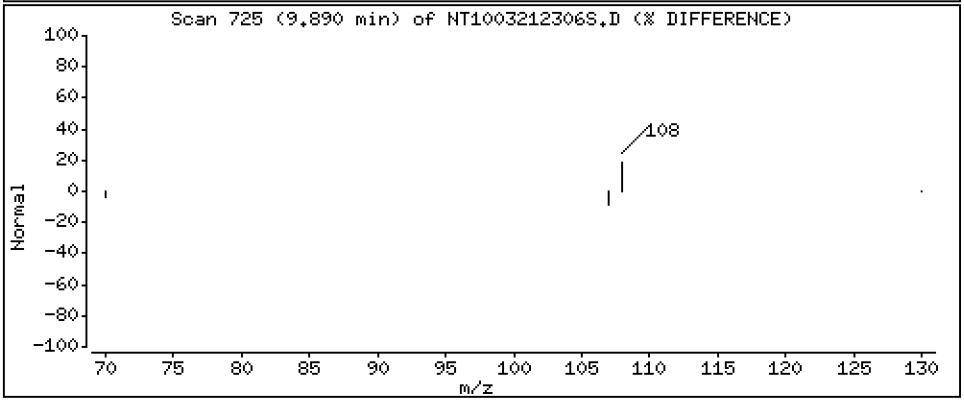












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Date : 21-MAR-2023 20:21

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BLK2

Volume Injected (uL): 1.0

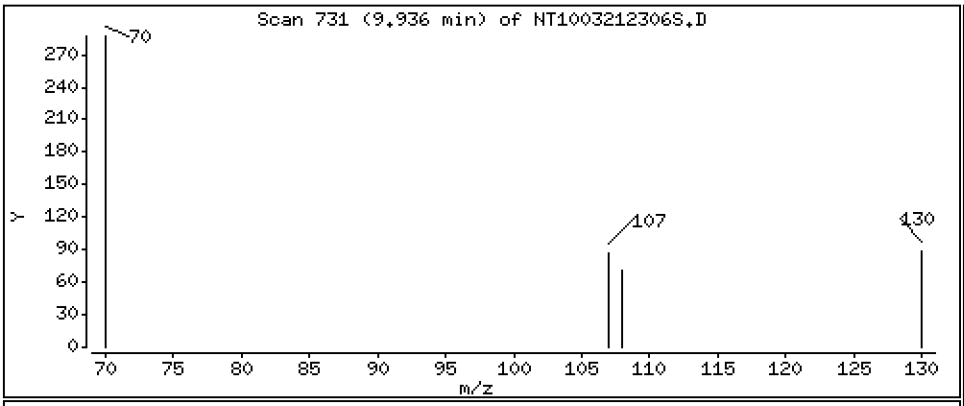
Operator: JGR

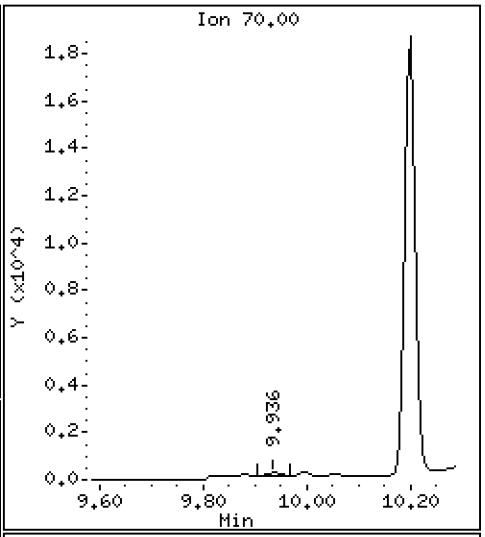
Column phase: ZB-5msi

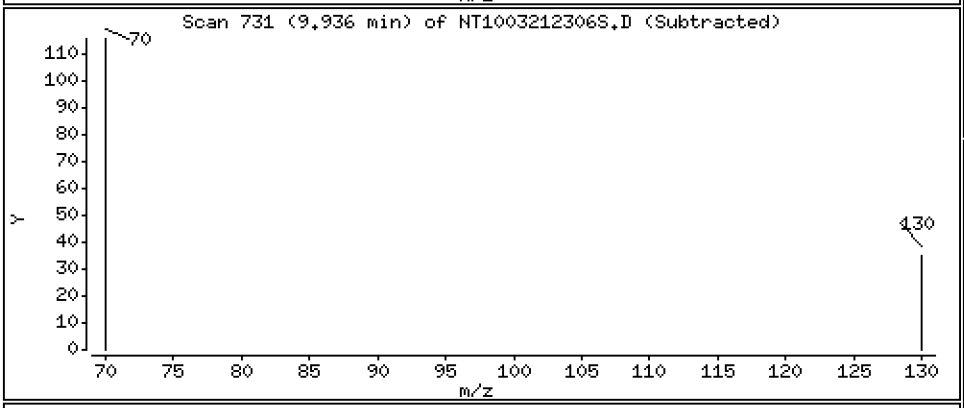
Column diameter: 0.25

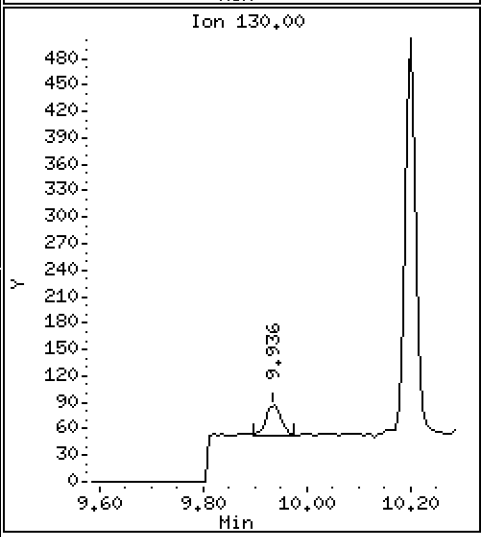
16 N-Nitroso-di-n-propylamine

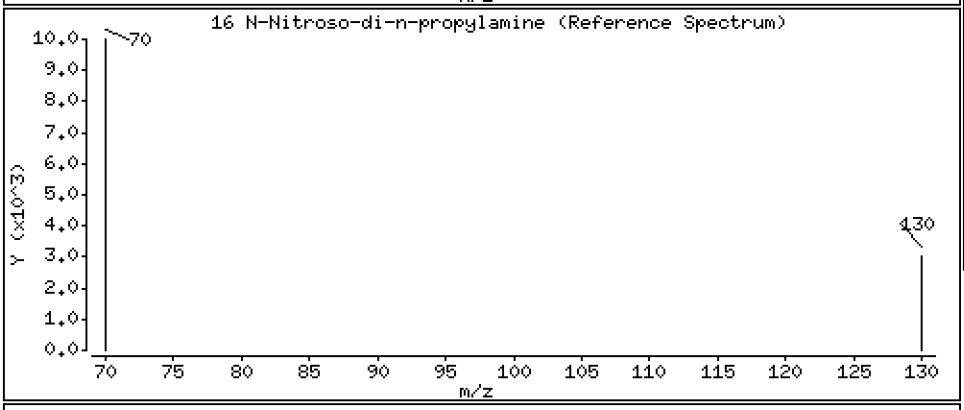
Concentration: 0.005364 ug/L

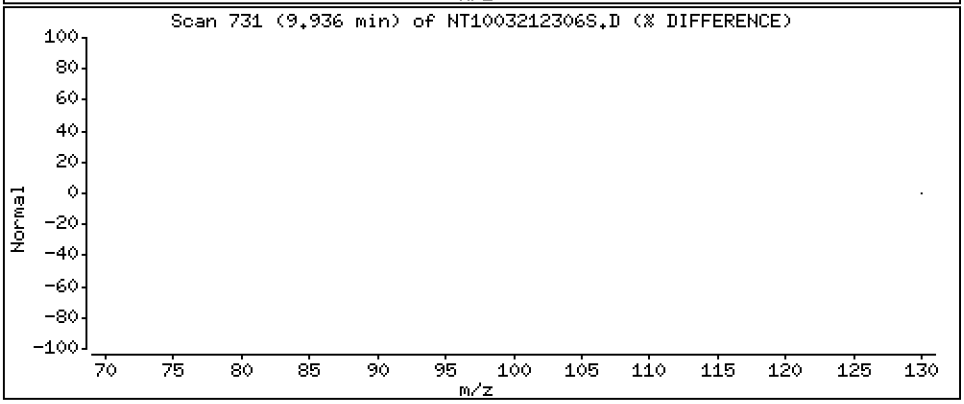












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT10032123065.D

Date : 21-MAR-2023 20:21

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BLK2

Volume Injected (uL): 1.0

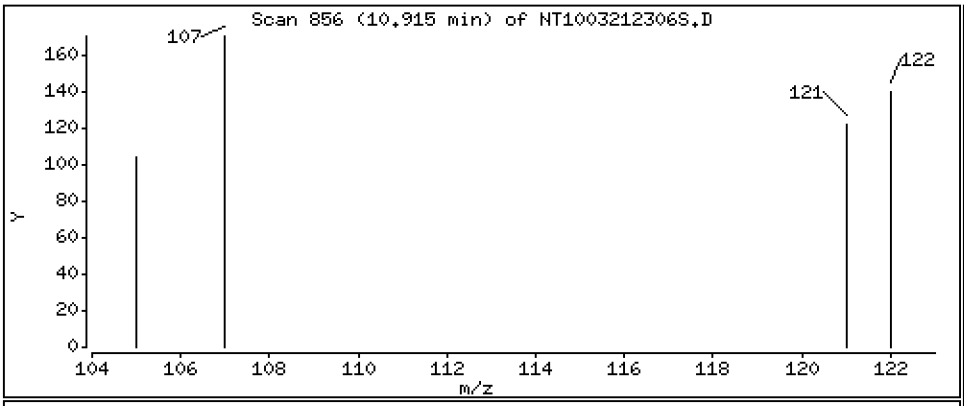
Operator: JGR

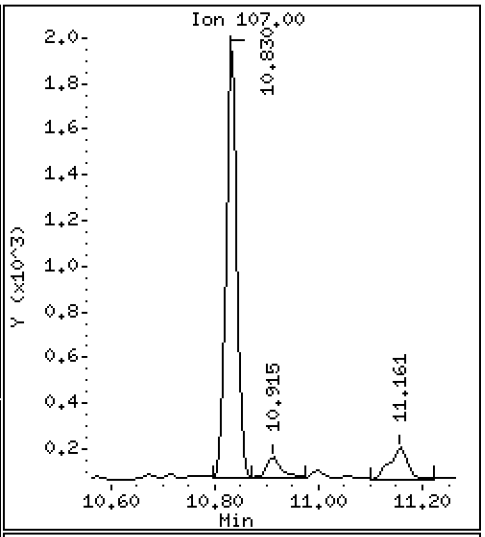
Column phase: ZB-5msi

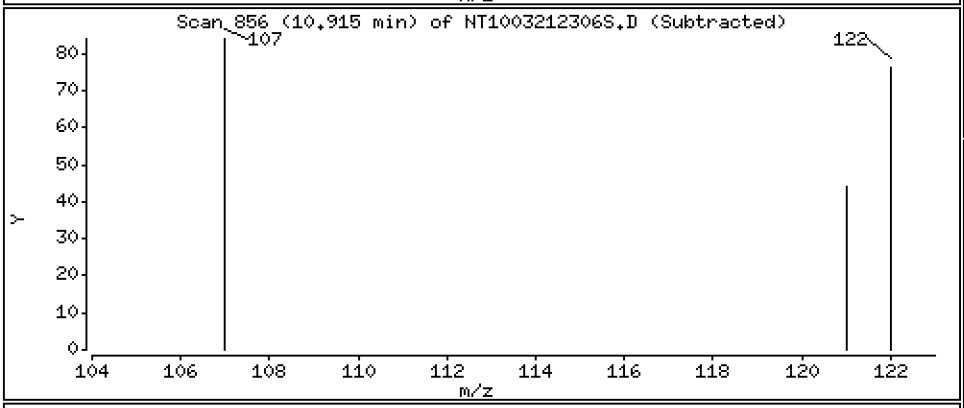
Column diameter: 0.25

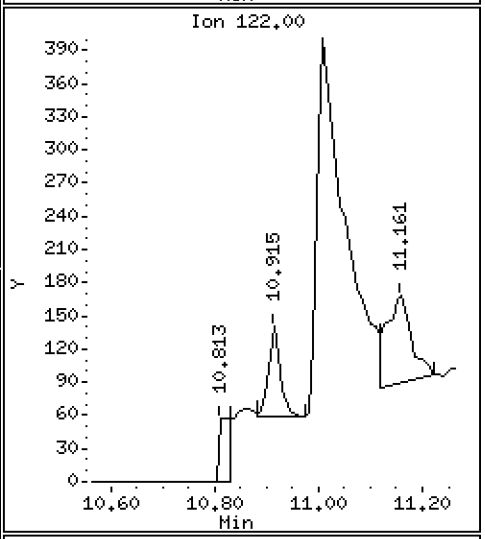
22 2,4-Dimethylphenol

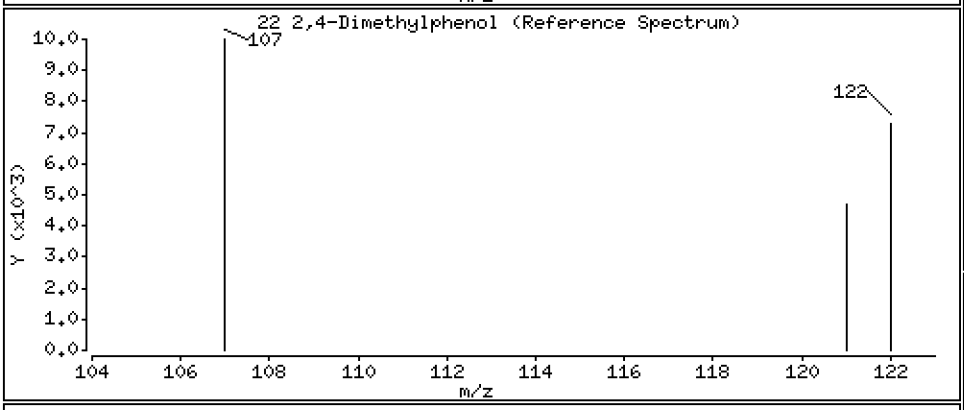
Concentration: 0.003032 ug/L

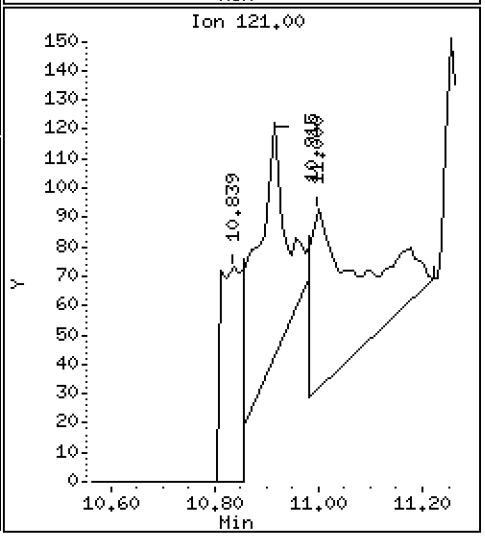


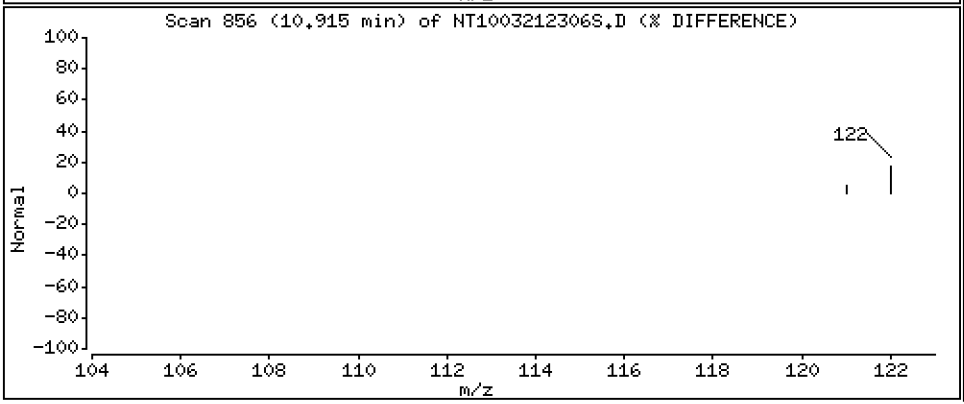












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Date : 21-MAR-2023 20:21

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BLK2

Volume Injected (uL): 1.0

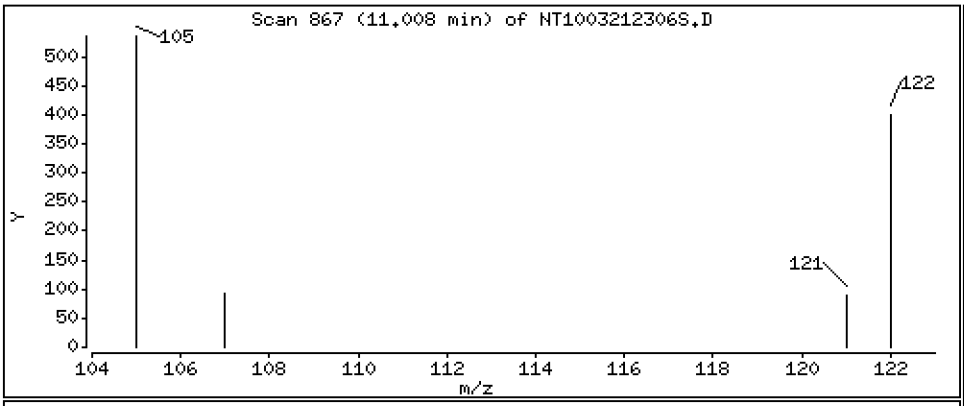
Operator: JGR

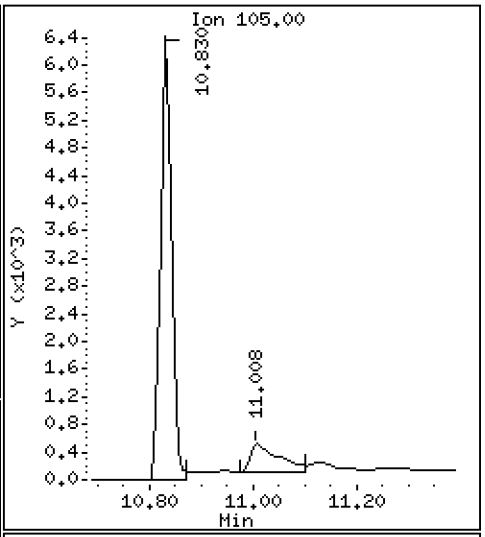
Column phase: ZB-5msi

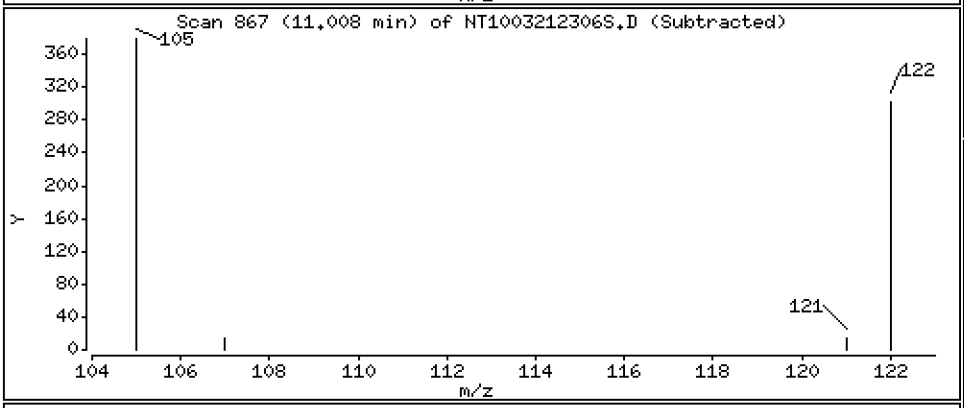
Column diameter: 0.25

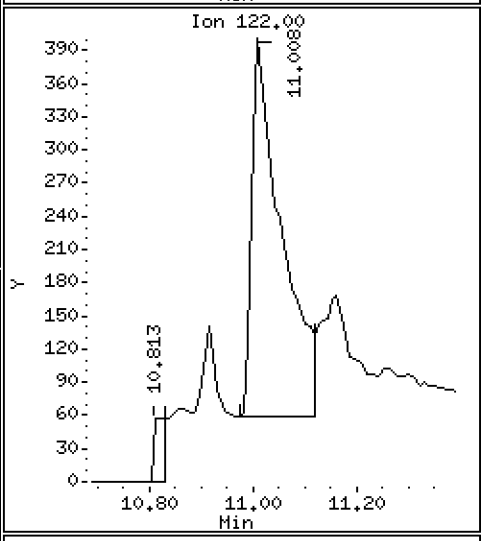
24 Benzoic acid

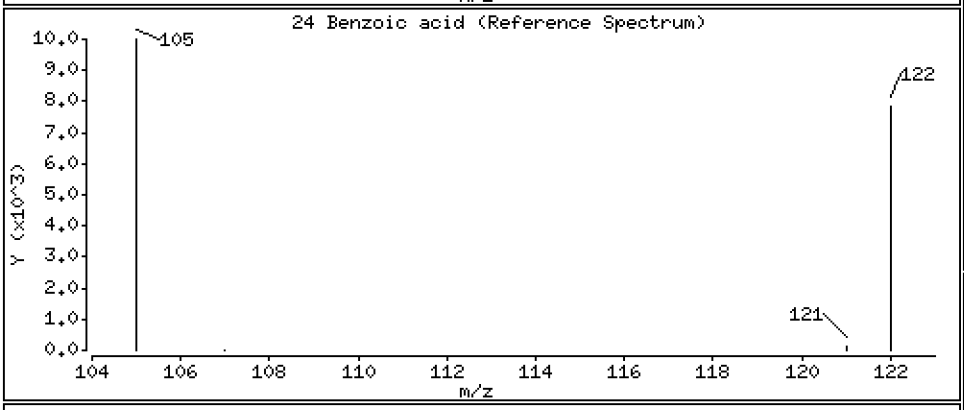
Concentration: 0.05035 ug/L

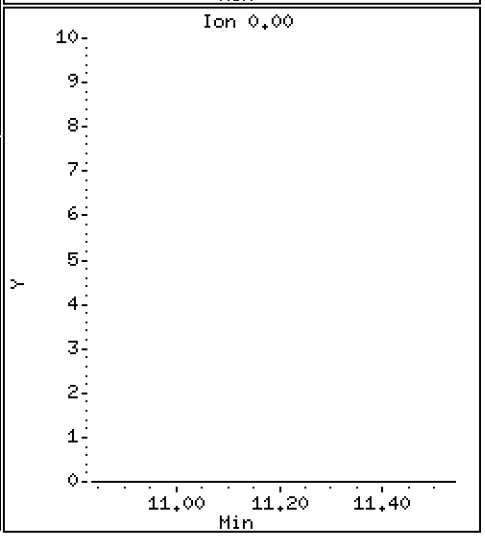


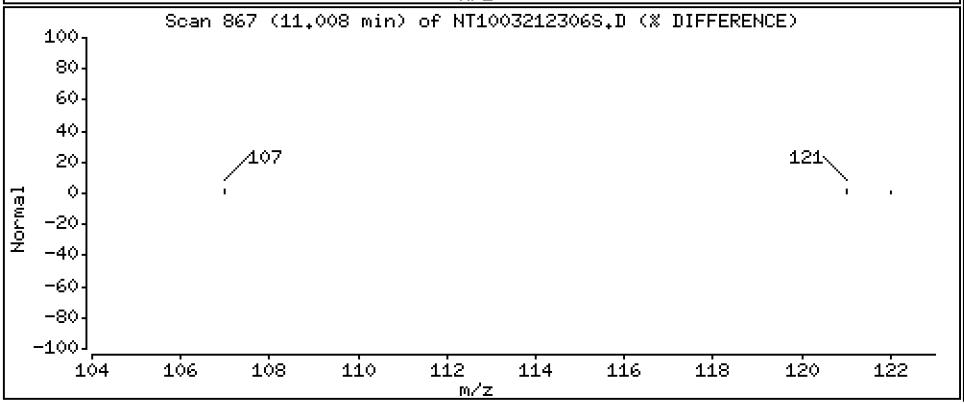












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Date : 21-MAR-2023 20:21

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BLK2

Volume Injected (uL): 1.0

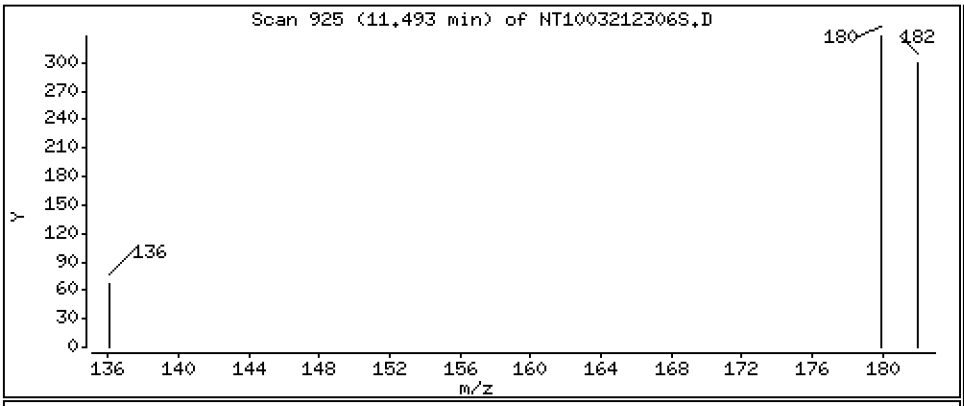
Operator: JGR

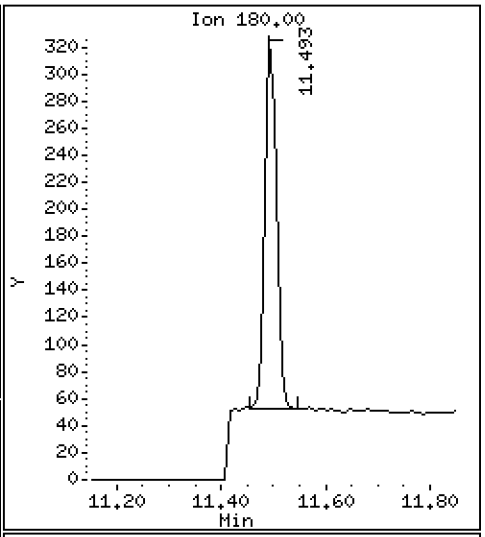
Column phase: ZB-5msi

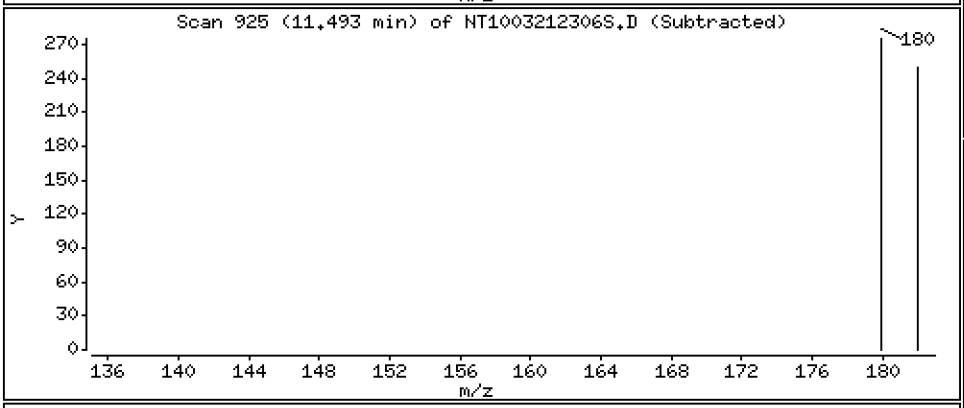
Column diameter: 0.25

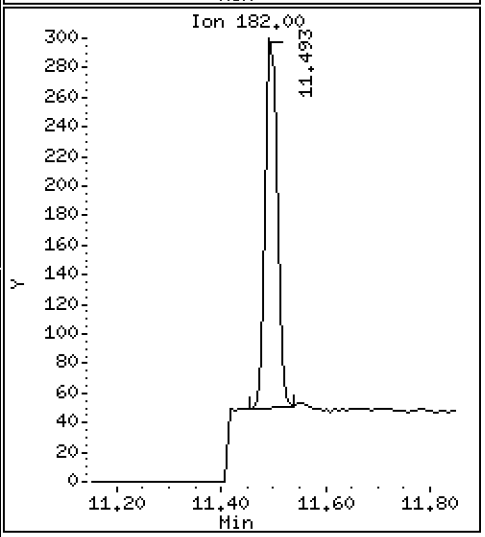
26 1,2,4-Trichlorobenzene

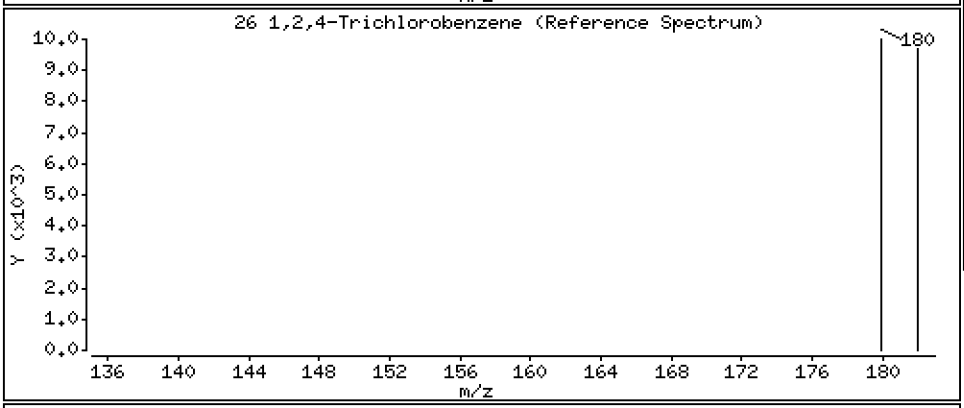
Concentration: 0.006562 ug/L

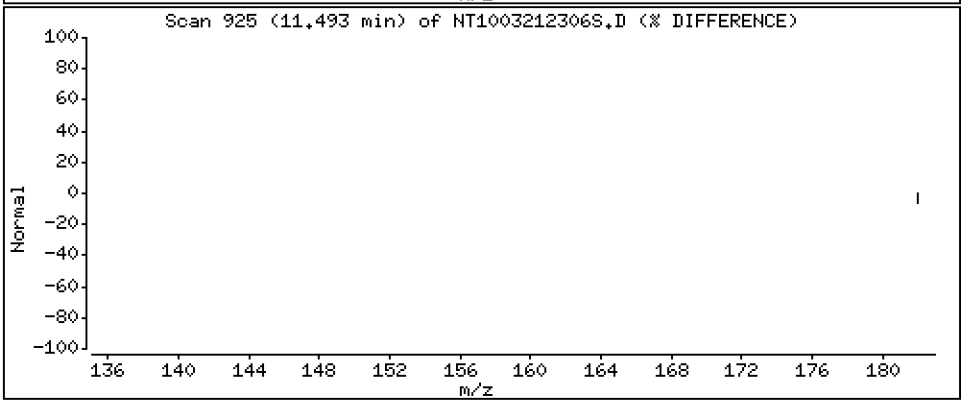












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT10032123065.D

Date : 21-MAR-2023 20:21

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BLK2

Volume Injected (uL): 1.0

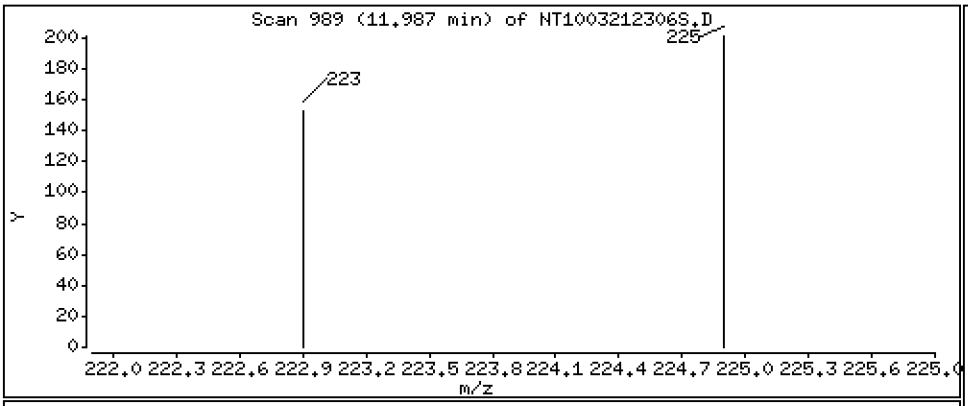
Operator: JGR

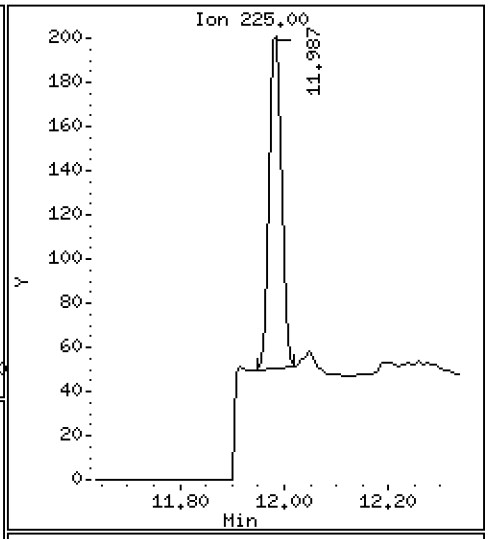
Column phase: ZB-5msi

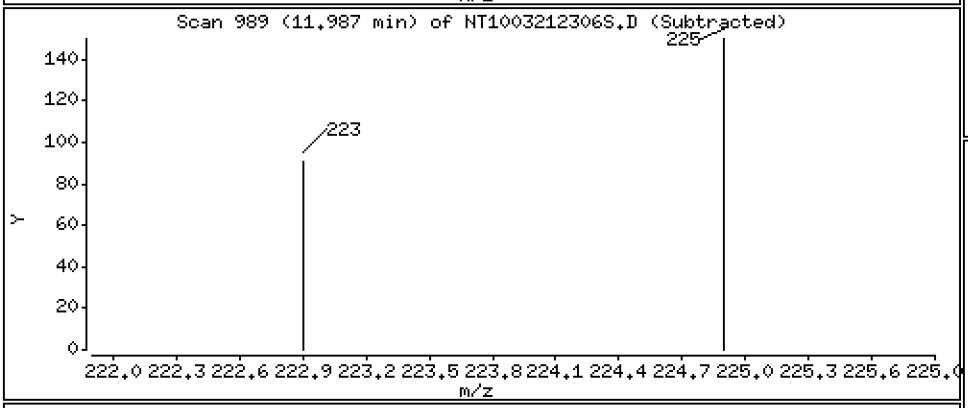
Column diameter: 0.25

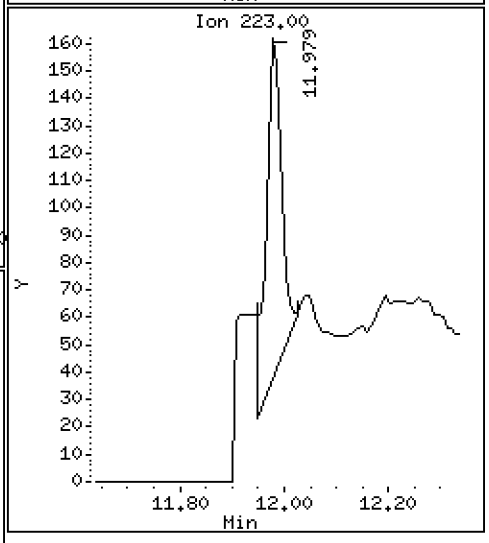
30 Hexachlorobutadiene

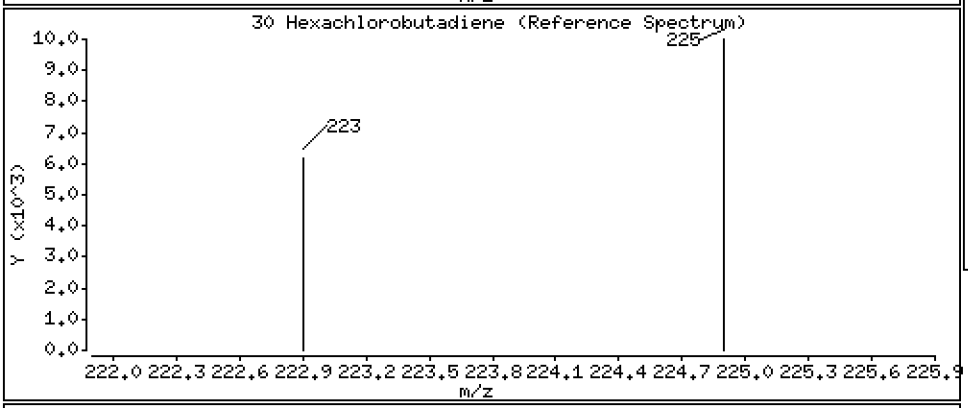
Concentration: 0.006492 ug/L

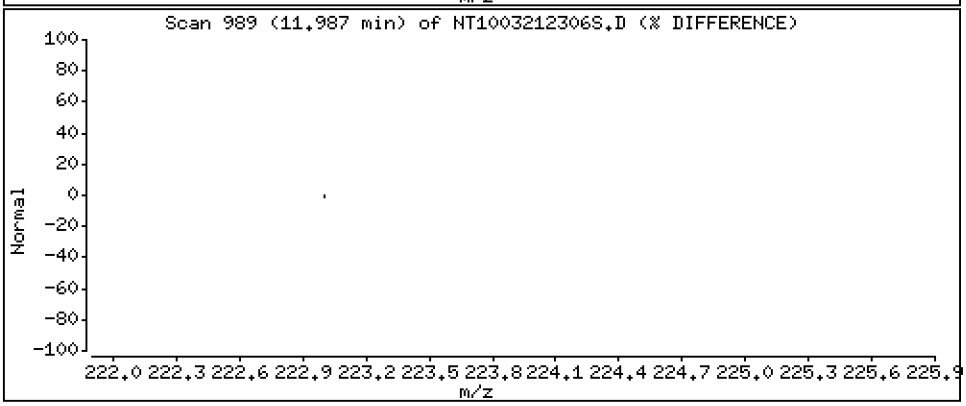












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212306S.D

Date : 21-MAR-2023 20:21

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BLK2

Volume Injected (uL): 1.0

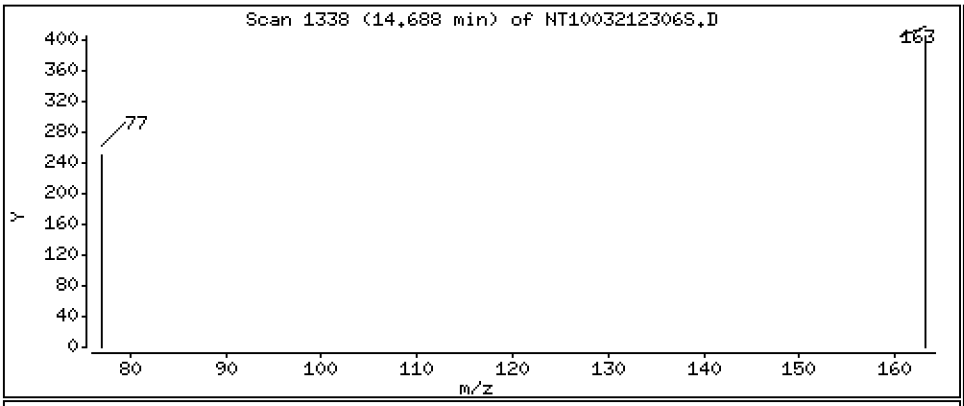
Operator: JGR

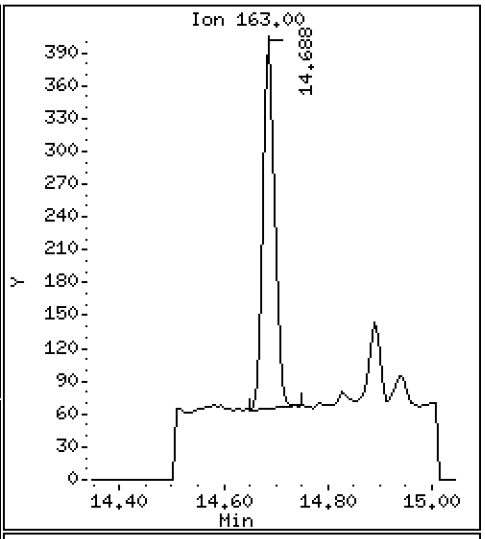
Column phase: ZB-5msi

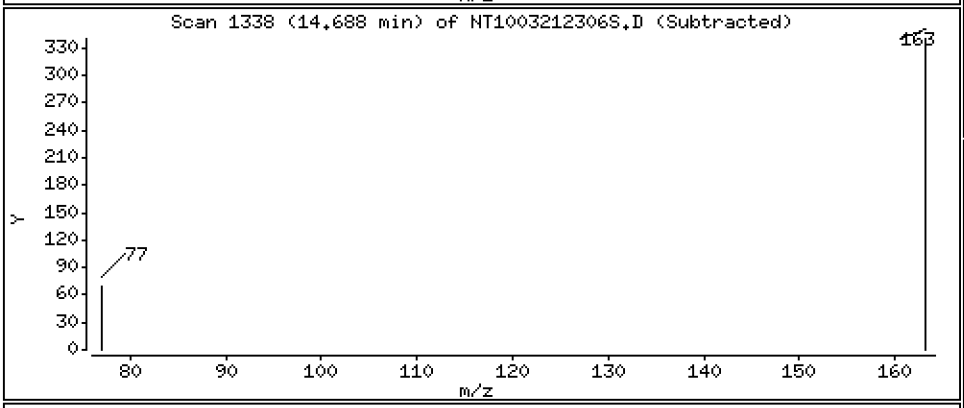
Column diameter: 0.25

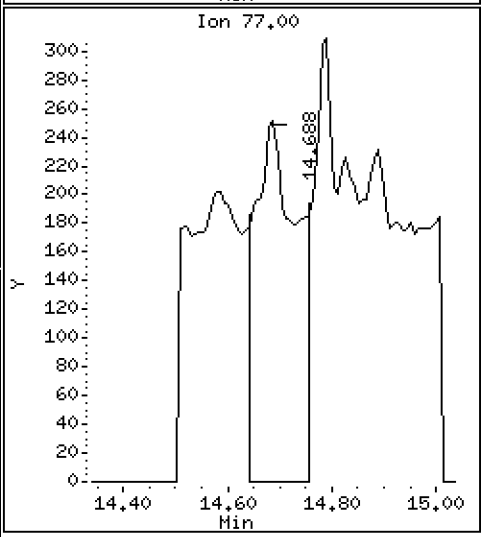
39 Dimethylphthalate

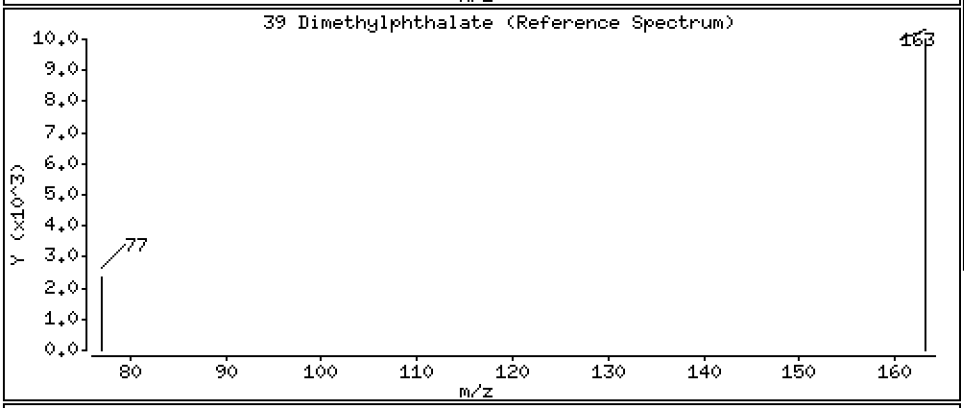
Concentration: 0.004771 ug/L

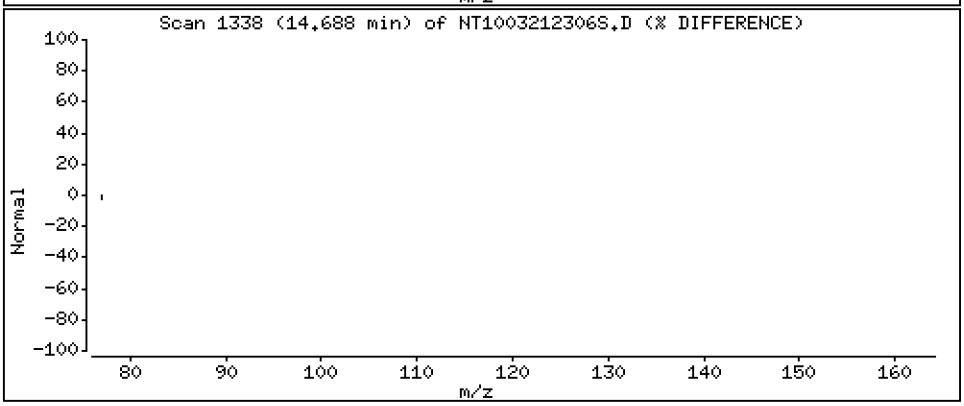












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Date : 21-MAR-2023 20:21

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BLK2

Volume Injected (uL): 1.0

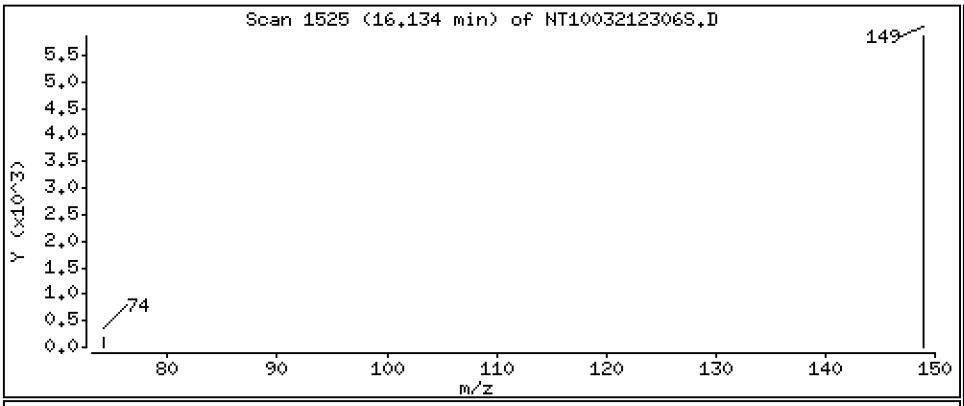
Operator: JGR

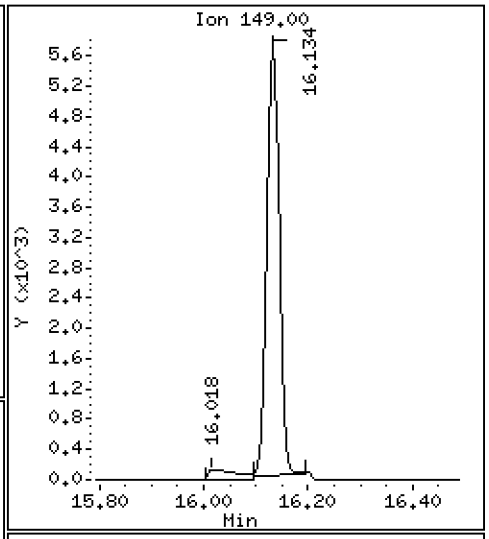
Column phase: ZB-5msi

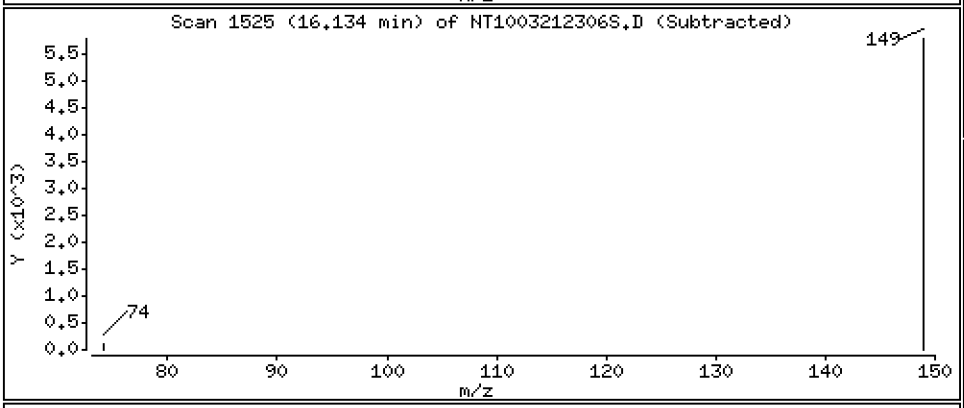
Column diameter: 0.25

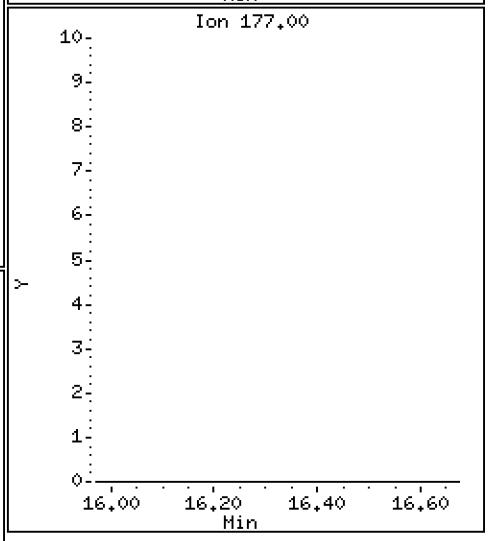
50 Diethylphthalate

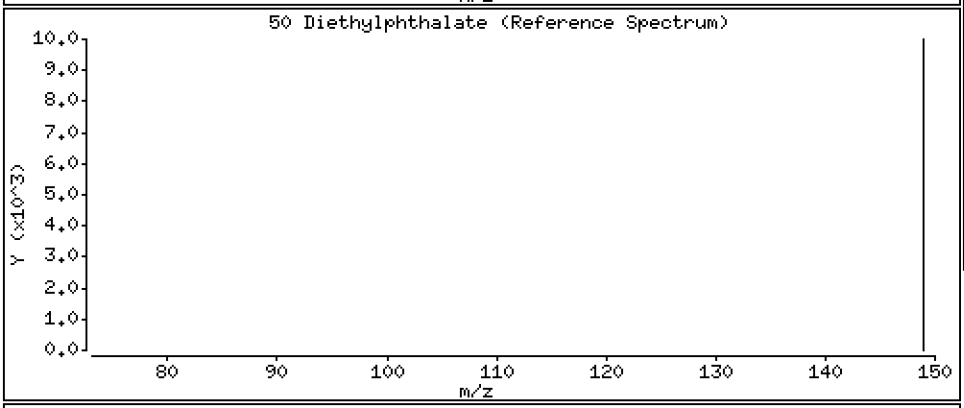
Concentration: 0.07940 ug/L

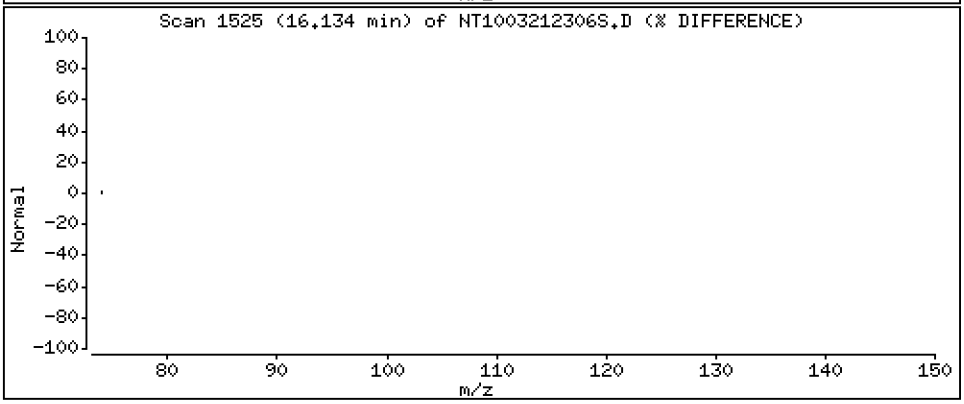












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Date : 21-MAR-2023 20:21

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BLK2

Volume Injected (uL): 1.0

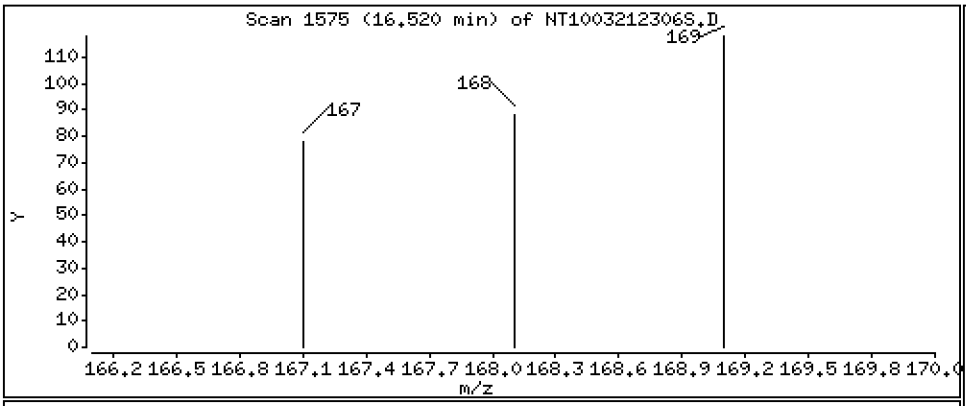
Operator: JGR

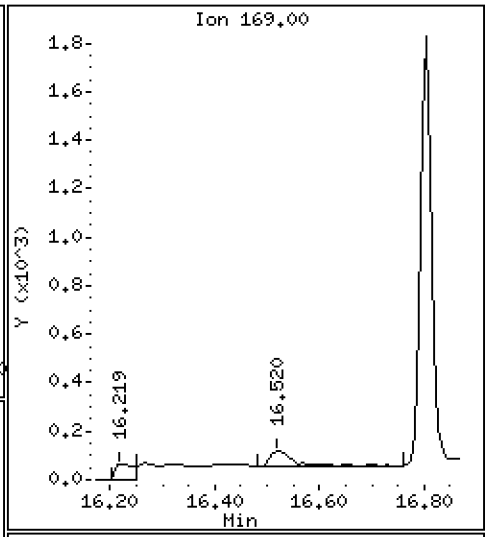
Column phase: ZB-5msi

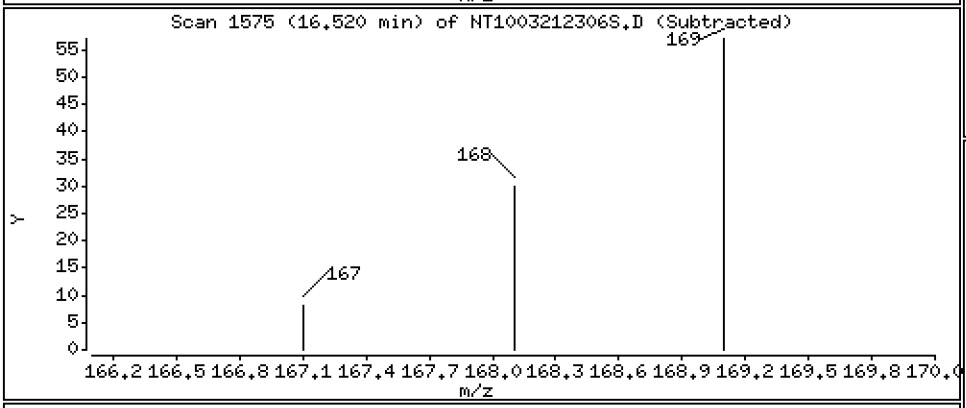
Column diameter: 0.25

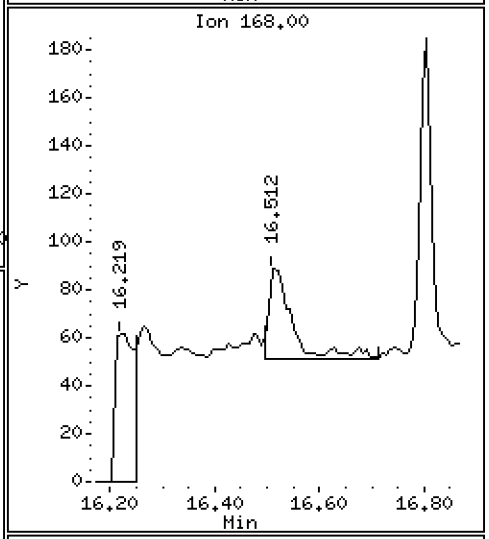
54 N-Nitrosodiphenylamine

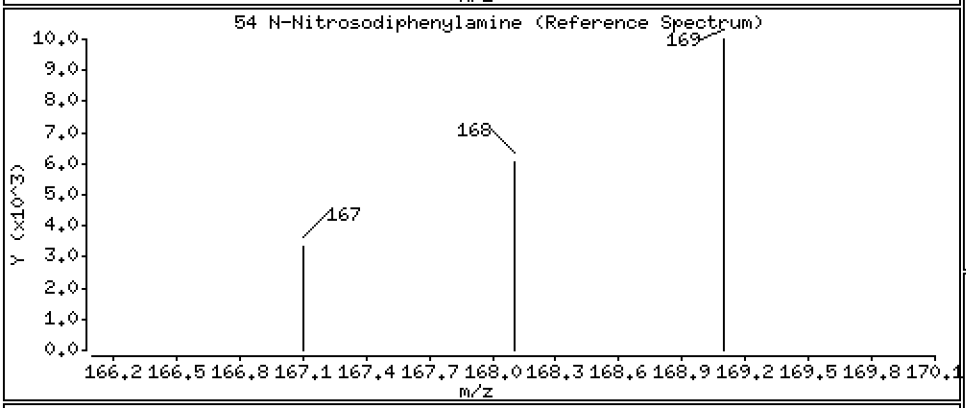
Concentration: 0.002262 ug/L

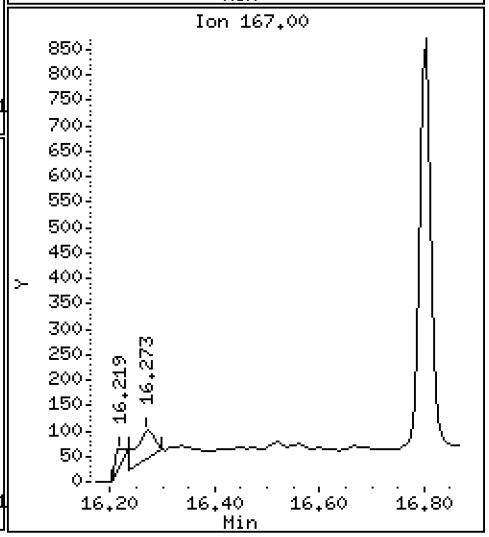


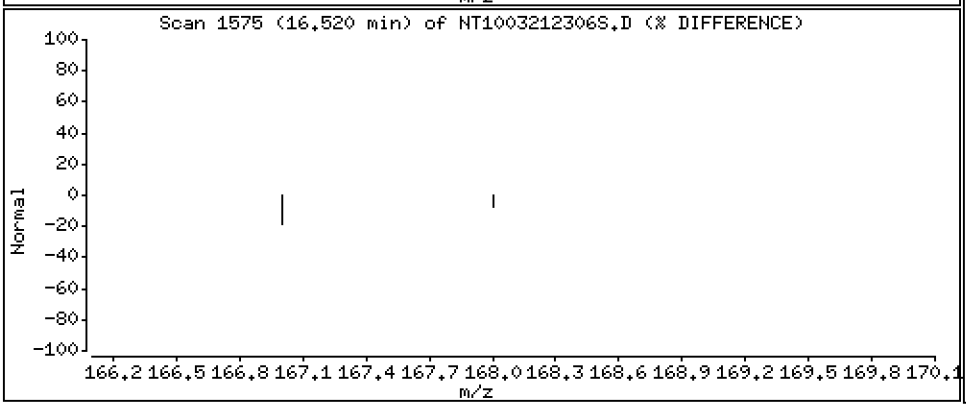












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Date : 21-MAR-2023 20:21

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BLK2

Volume Injected (uL): 1.0

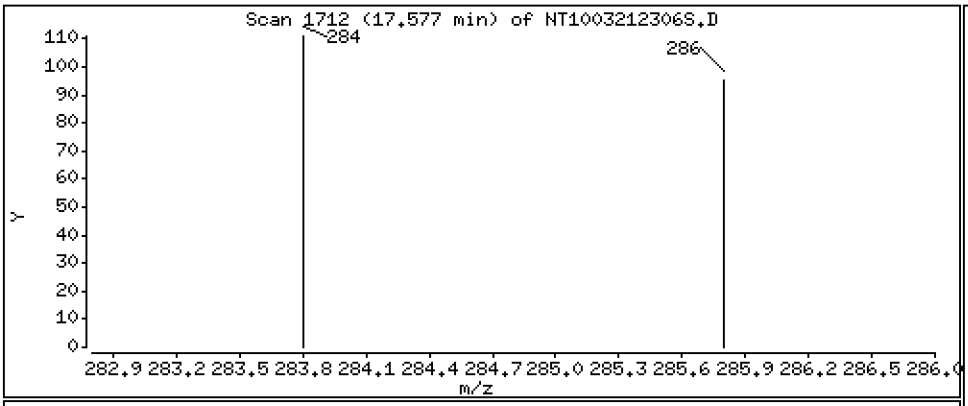
Operator: JGR

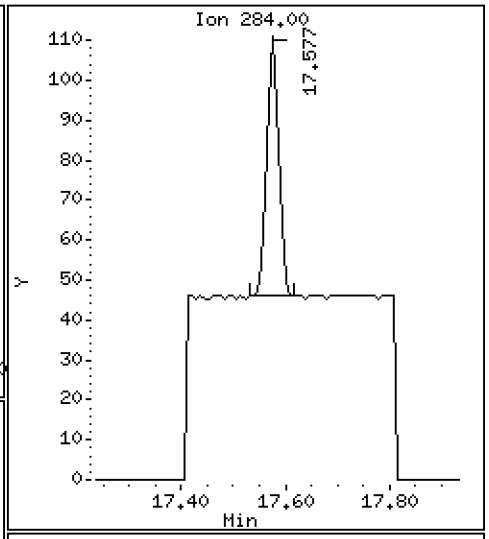
Column phase: ZB-5msi

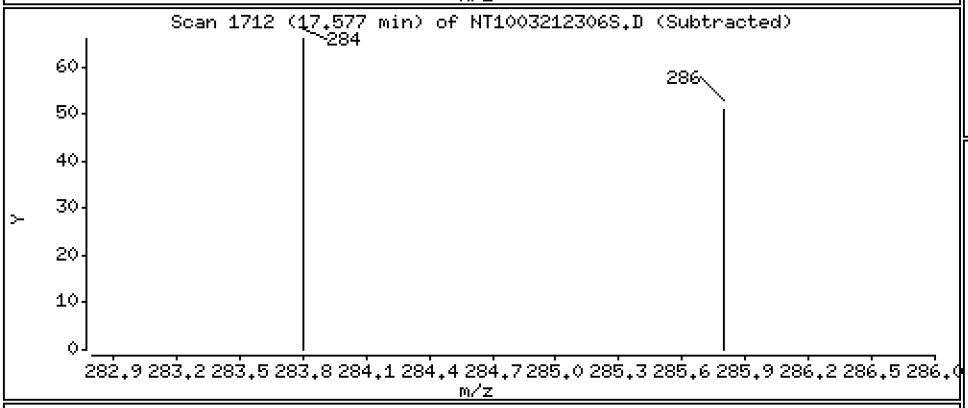
Column diameter: 0.25

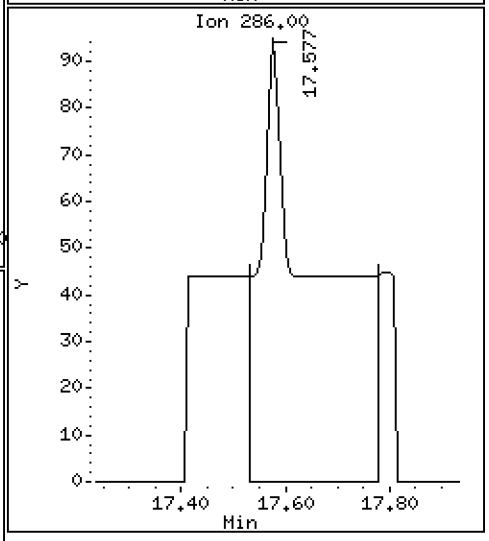
57 Hexachlorobenzene

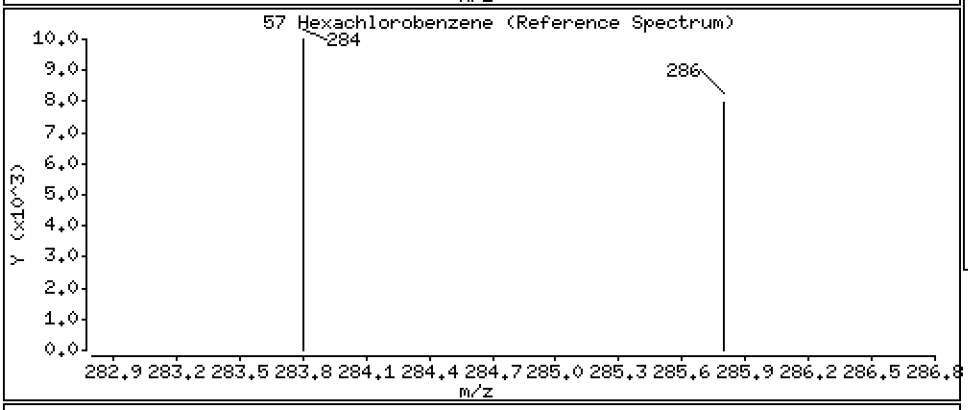
Concentration: 0.002632 ug/L

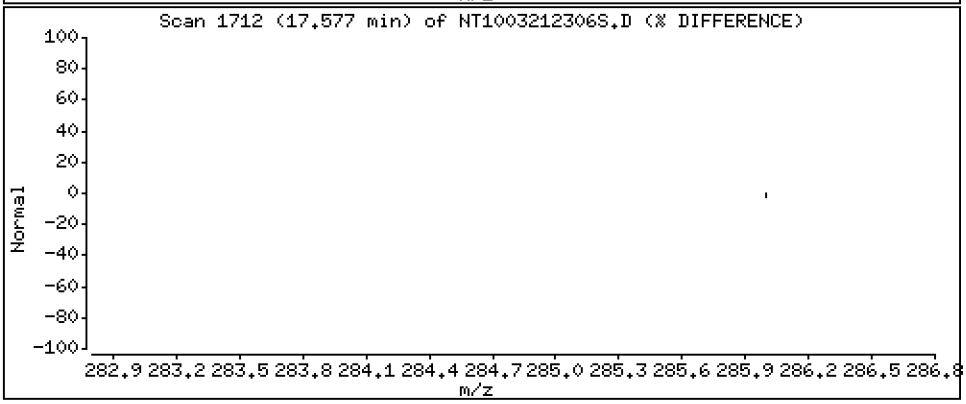












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Date : 21-MAR-2023 20:21

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BLK2

Volume Injected (uL): 1.0

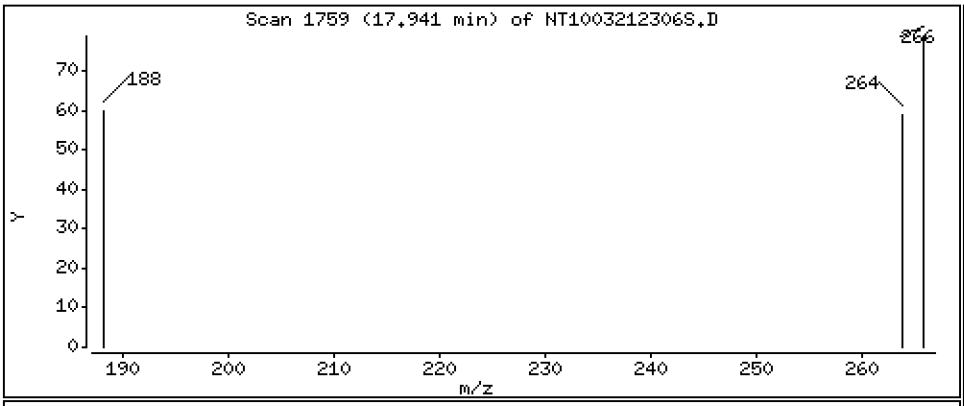
Operator: JGR

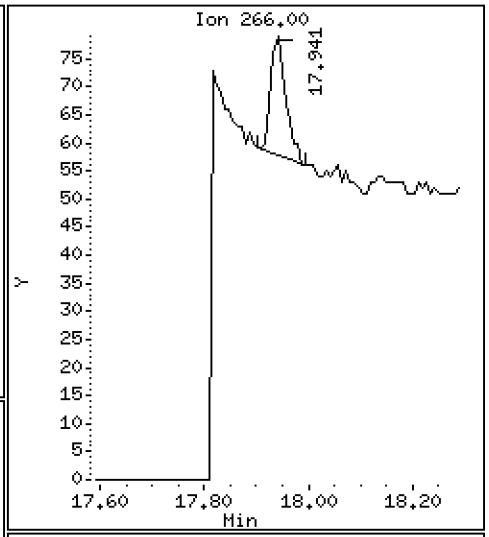
Column phase: ZB-5msi

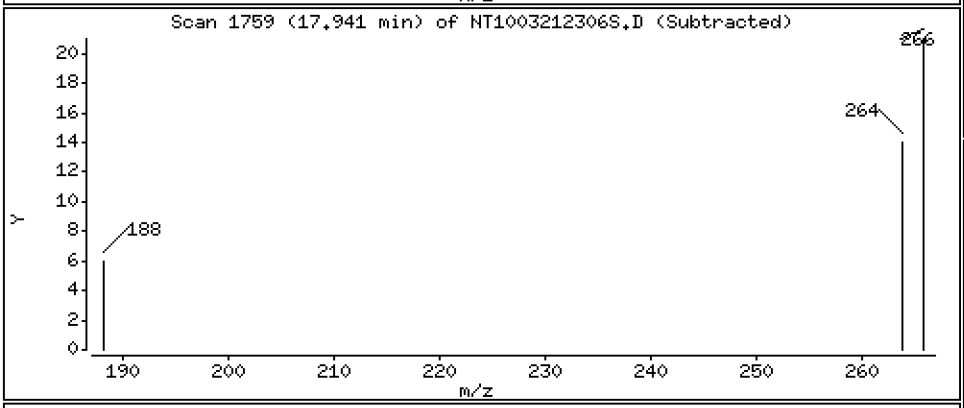
Column diameter: 0.25

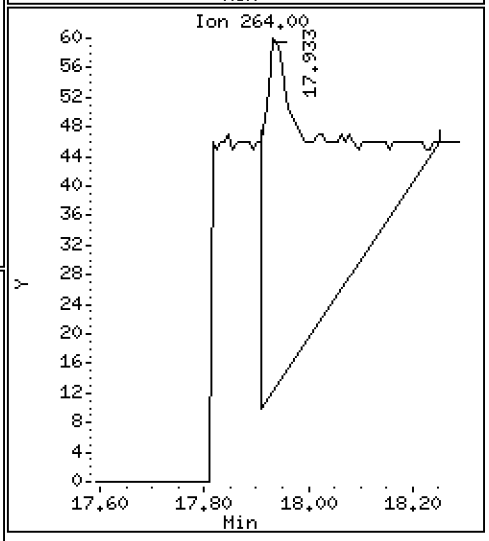
58 Pentachlorophenol

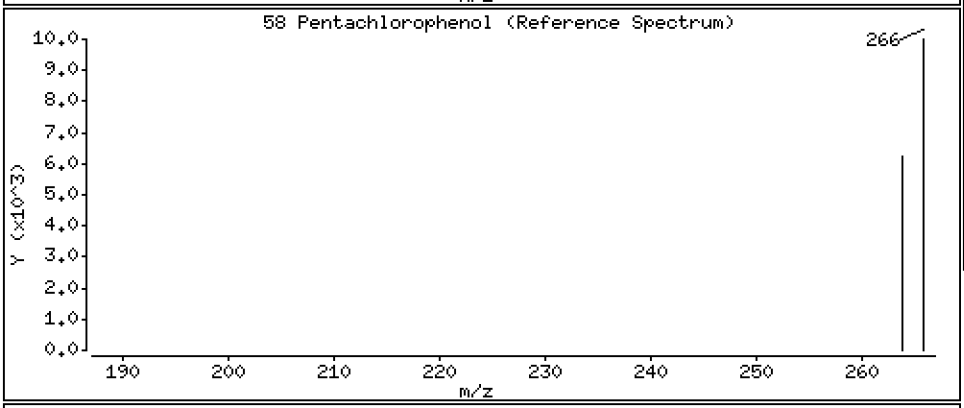
Concentration: 0.001955 ug/L

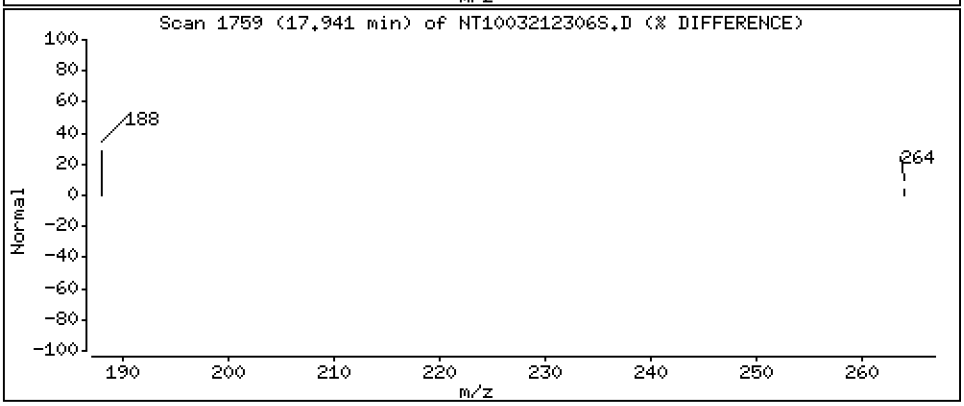












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Date : 21-MAR-2023 20:21

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BLK2

Volume Injected (uL): 1.0

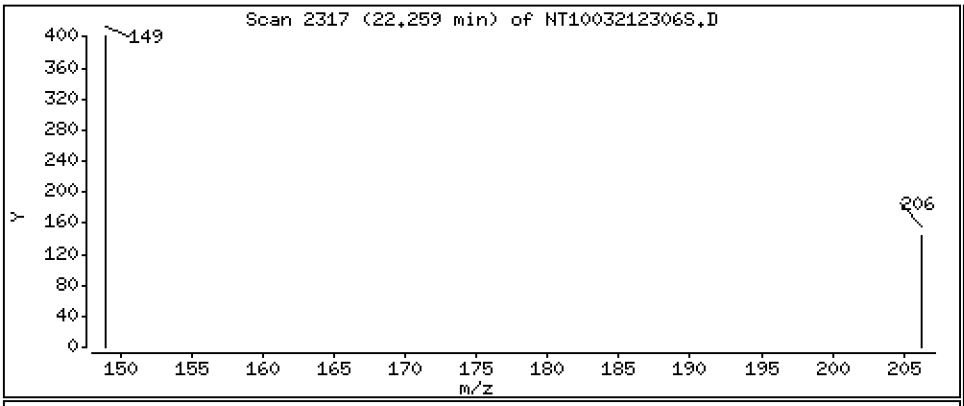
Operator: JGR

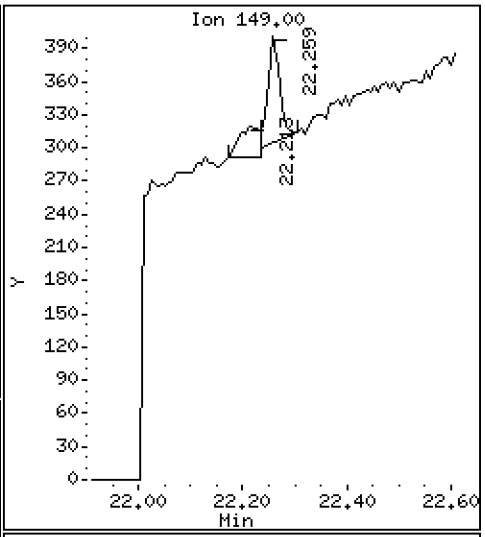
Column phase: ZB-5msi

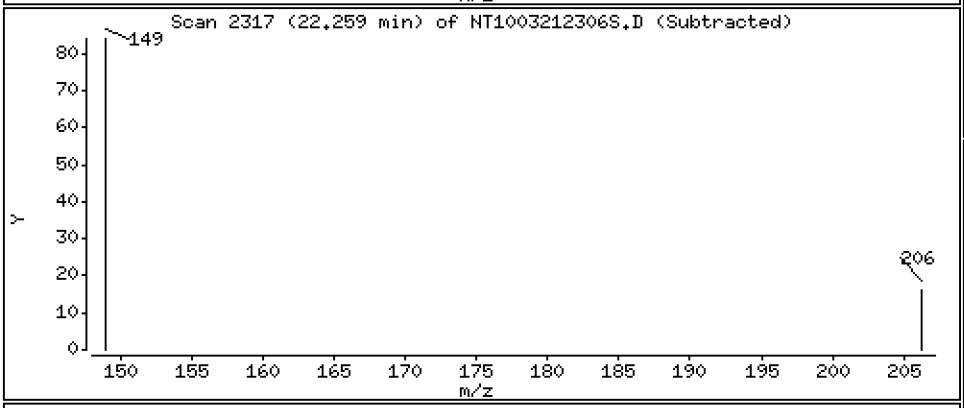
Column diameter: 0.25

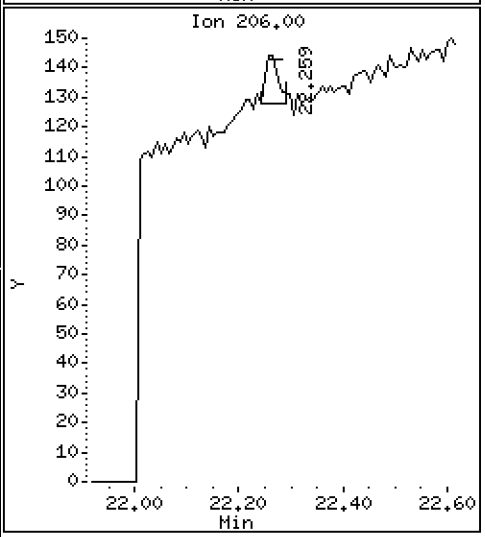
67 Butylbenzylphthalate

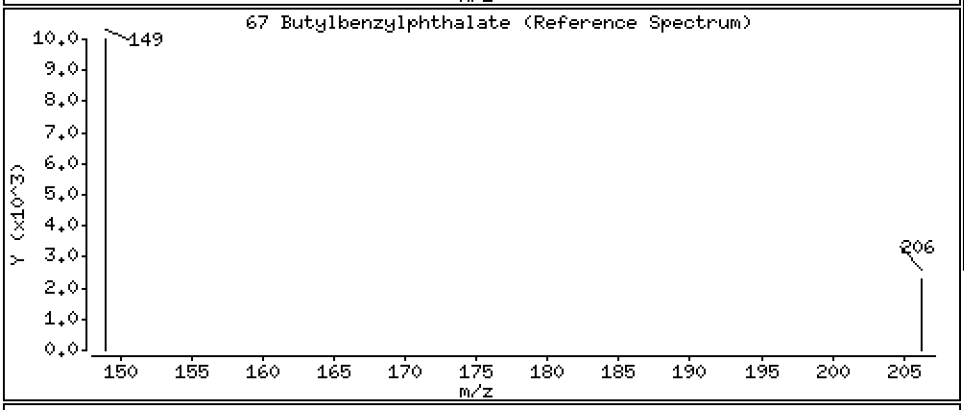
Concentration: 0.002029 ug/L

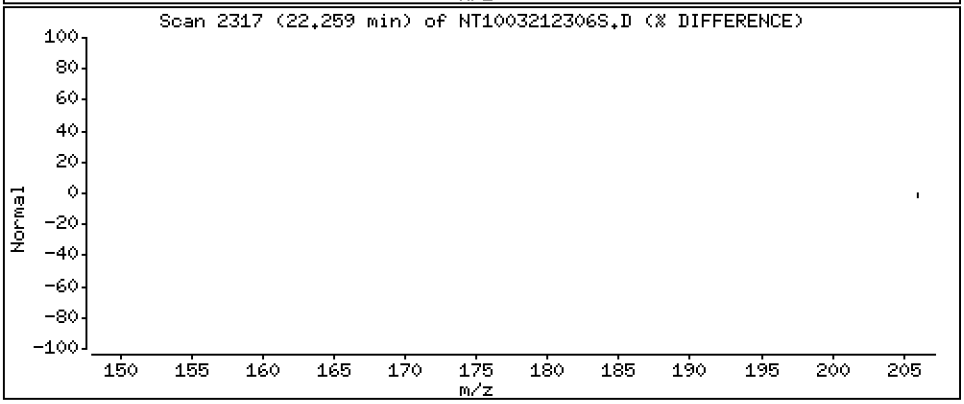












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Date : 21-MAR-2023 20:21

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BLK2

Volume Injected (uL): 1.0

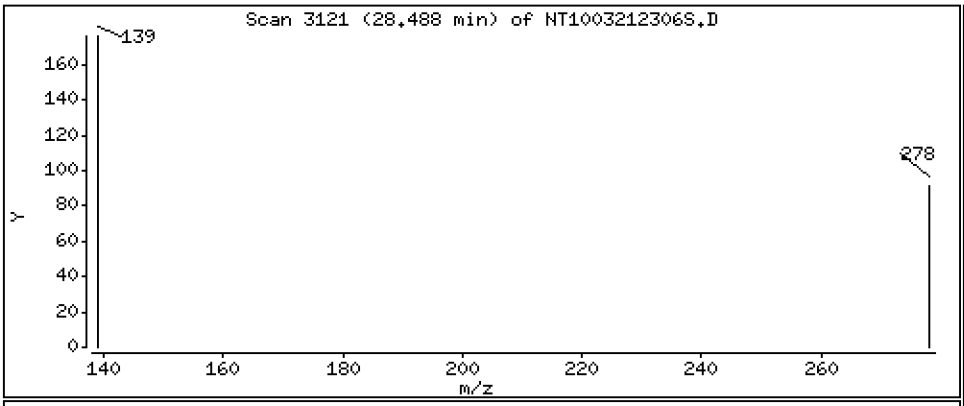
Operator: JGR

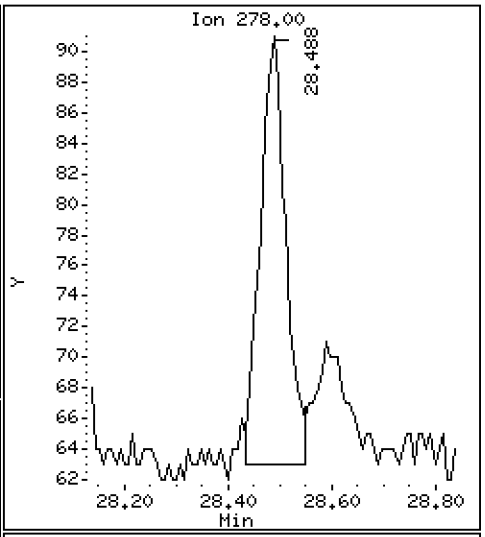
Column phase: ZB-5msi

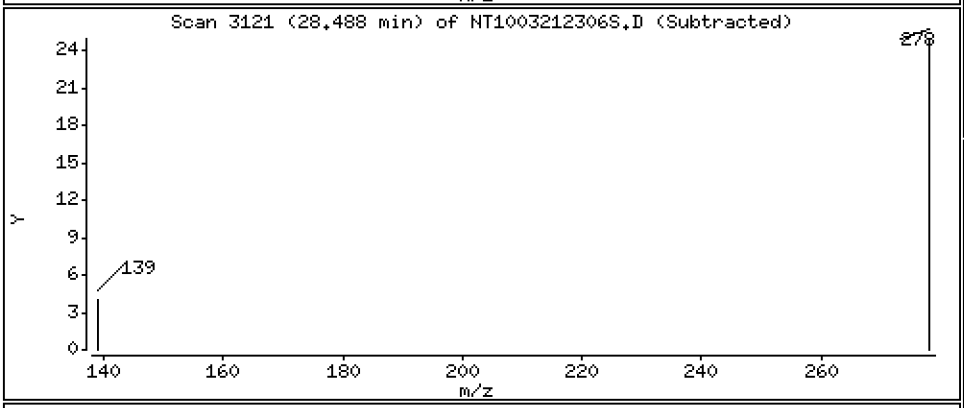
Column diameter: 0.25

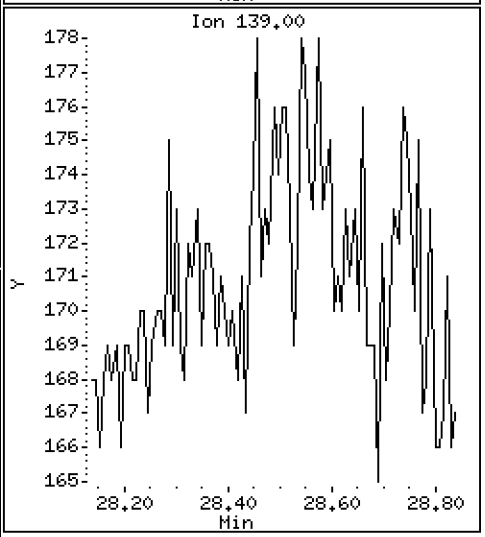
79 Dibenzo(a,h)anthracene

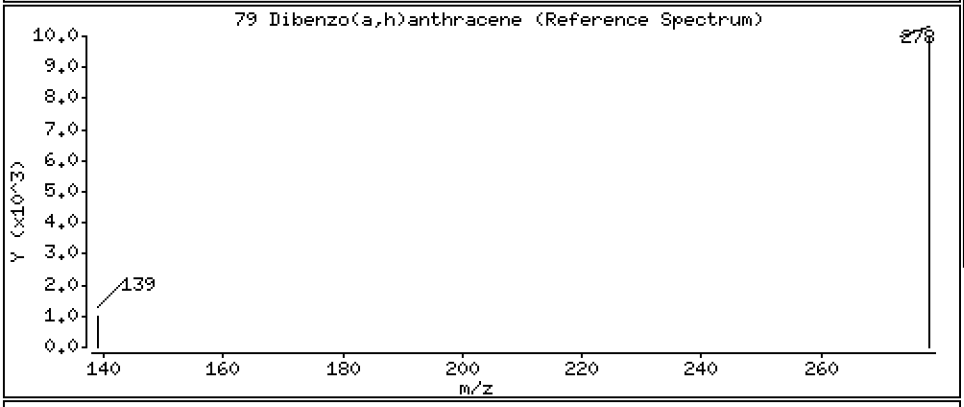
Concentration: 0.0005070 ug/L

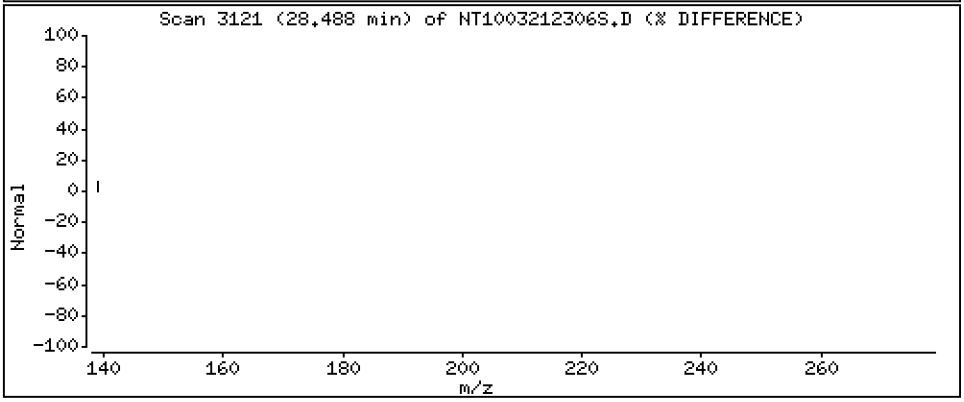












ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212306S.D
Lab Smp Id: BLC0109-BLK2
Inj Date : 21-MAR-2023 20:21 MS Autotune Date: 16-JAN-2023 17:42
Operator : JGR Inst ID: nt10.i
Smp Info : BLC0109-BLK2
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230321.b\20230321.b\SIMABN2.m
Meth Date : 29-Mar-2023 09:55 van Quant Type: ISTD
Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
$ 1	2-Fluorophenol	112	6.895	6.895	(0.757)	235373	3.99070	3.991(R)
3	Phenol	94	8.494	8.494	(0.932)	16110	0.19909	0.1991
7	1,3-Dichlorobenzene	146	9.043	9.043	(0.992)	624	0.00824	0.008241(M)
* 8	1,4-Dichlorobenzene-d4	152	9.113	9.105	(1.000)	194497	4.00000	
9	1,4-Dichlorobenzene	146	9.136	9.136	(1.003)	632	0.00865	0.008647(M)
11	Benzyl alcohol	79	9.384	9.377	(1.030)	495	0.01055	0.01055
12	1,2-Dichlorobenzene	146	9.493	9.493	(1.042)	591	0.00822	0.008222(M)
13	2-Methylphenol	108	9.610	9.602	(1.055)	225	0.00401	0.004013
15	4-Methylphenol	108	9.889	9.874	(1.085)	256	0.00439	0.004394
16	N-Nitroso-di-n-propylamine	70	9.936	9.936	(1.090)	221	0.00536	0.005364(M)
22	2,4-Dimethylphenol	107	10.914	10.914	(0.943)	181	0.00303	0.003032
24	Benzoic acid	105	11.008	11.042	(0.951)	1643	0.05035	0.05035
26	1,2,4-Trichlorobenzene	180	11.492	11.500	(0.993)	394	0.00656	0.006562(M)
* 27	Naphthalene-d8	136	11.577	11.585	(1.000)	690560	4.00000	
30	Hexachlorobutadiene	225	11.987	11.987	(1.035)	237	0.00649	0.006492(M)
39	Dimethylphthalate	163	14.688	14.695	(0.968)	517	0.00477	0.004771(M)
* 42	Acenaphthene-d10	162	15.175	15.183	(1.000)	343359	4.00000	
50	Diethylphthalate	149	16.134	16.141	(1.063)	8913	0.07940	0.07940
54	N-Nitrosodiphenylamine	169	16.519	16.520	(0.908)	192	0.00226	0.002262
57	Hexachlorobenzene	284	17.577	17.584	(0.966)	100	0.00263	0.002632(M)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	58 Pentachlorophenol	266	17.941	17.941	(0.986)	41	0.00196	0.001955(M)
*	59 Phenanthrene-d10	188	18.196	18.196	(1.000)	632591	4.00000	
$	66 Terphenyl-d14	244	21.329	21.337	(0.918)	308710	3.53168	3.532(R)
	67 Butylbenzylphthalate	149	22.259	22.259	(0.958)	143	0.00203	0.002029
*	69 Chrysene-d12	240	23.226	23.234	(1.000)	536480	4.00000	
*	77 Perylene-d12	264	25.836	25.836	(1.000)	570644	4.00000	
	79 Dibenzo(a,h)anthracene	278	28.487	28.487	(1.103)	95	5e-004	0.0005070(M)
	90 N-Nitrosodimethylamine	74	Compound Not Detected.					

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1003212306S.D
Lab Smp Id: BLC0109-BLK2
Analysis Type: SV
Quant Type: ISTD
Operator: JGR
Method File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\SIMABN2.m
Misc Info:

Calibration Date: 21-MAR-2023
Calibration Time: 18:25
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	162628	81314	325256	194497	19.60
27 Naphthalene-d8	580280	290140	1160560	690560	19.00
42 Acenaphthene-d10	297255	148628	594510	343359	15.51
59 Phenanthrene-d10	561093	280547	1122186	632591	12.74
69 Chrysene-d12	498827	249414	997654	536480	7.55
77 Perylene-d12	558480	279240	1116960	570644	2.18

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.11	8.61	9.61	9.11	0.08
27 Naphthalene-d8	11.59	11.09	12.09	11.58	-0.07
42 Acenaphthene-d10	15.18	14.68	15.68	15.18	-0.05
59 Phenanthrene-d10	18.20	17.70	18.70	18.20	-0.00
69 Chrysene-d12	23.23	22.73	23.73	23.23	-0.03
77 Perylene-d12	25.84	25.34	26.34	25.84	-0.00

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

REVIEW SUMMARY FOR FILE - NT1003212306S.D

Lab ID: BLC0109-BLK2
nt10.i, 20230321.b\20230321.b\SIMABN2.m,   21-MAR-2023 20:21

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

RRT check based on Ccal File: 20230321.b/NT1003212303S.D

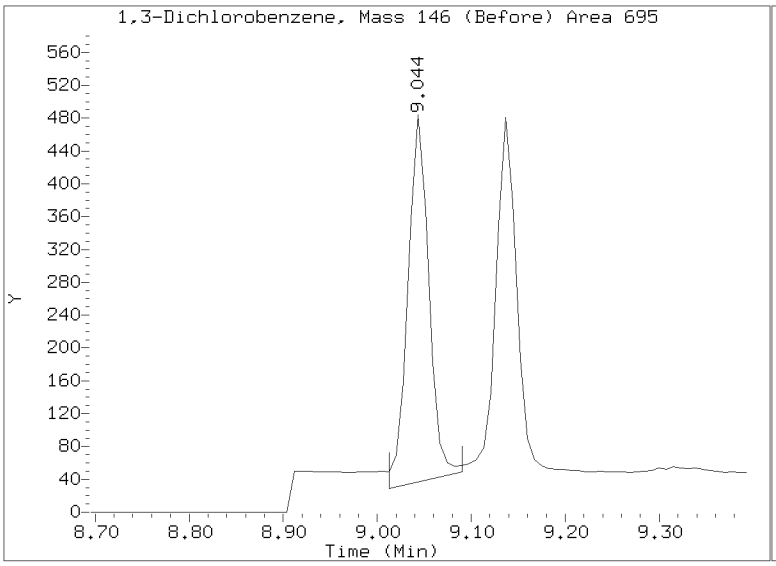
On Column LOD for nt10.i, 20230321.b\SIMABN2.m, PSDDA.sub = 0.0000

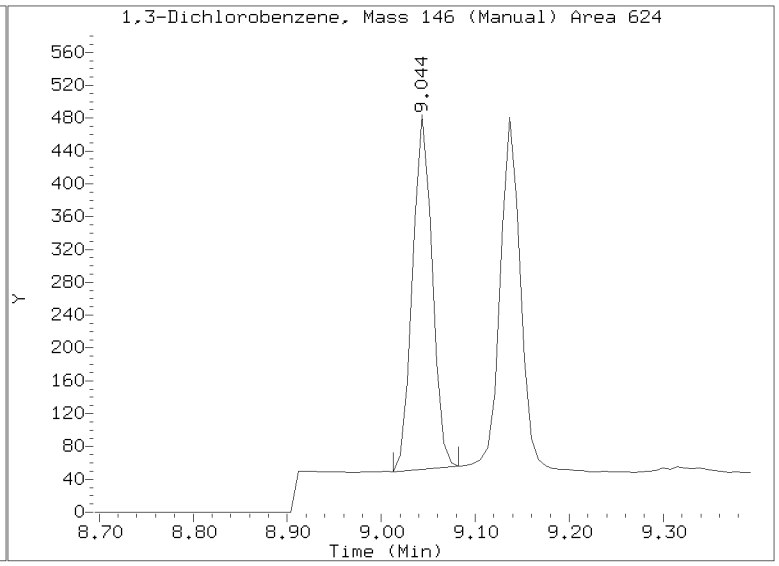
Exception: 1,2,4-Trichlorobenzene 0.0010

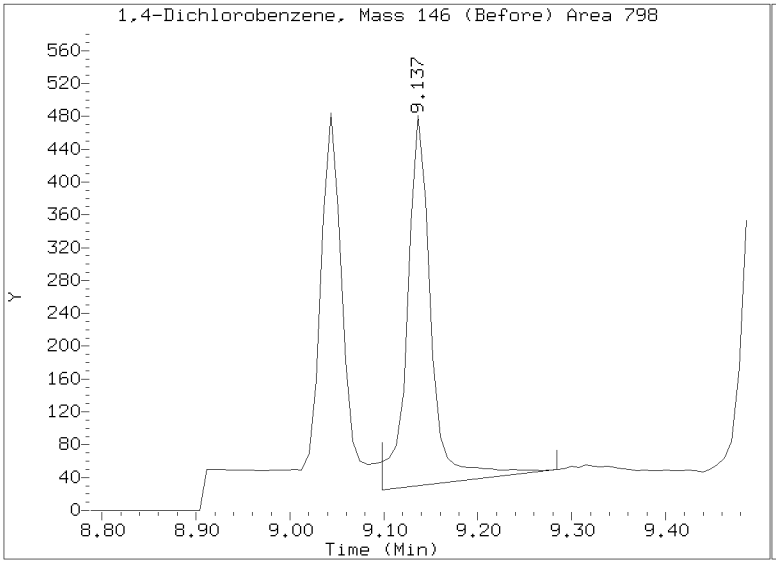
* Only compounds listed in the work order have been verified by the analyst *

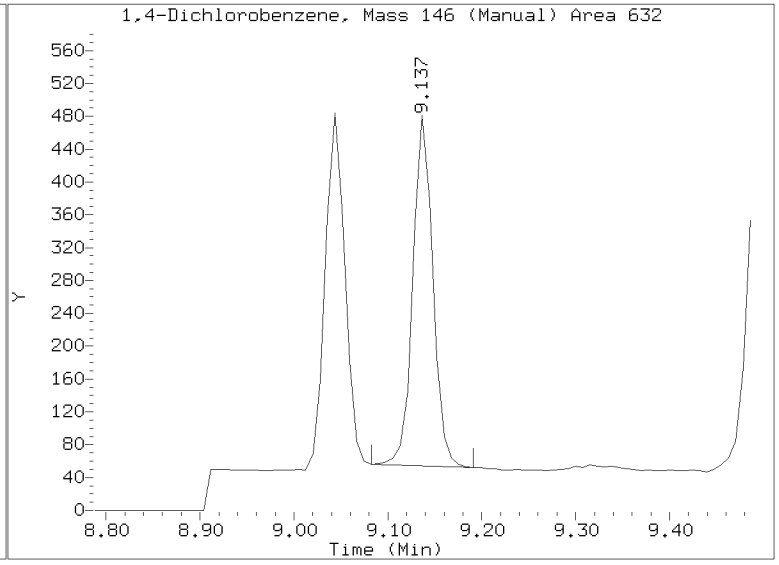
Quant Ion Manual Peak Adjustment Report

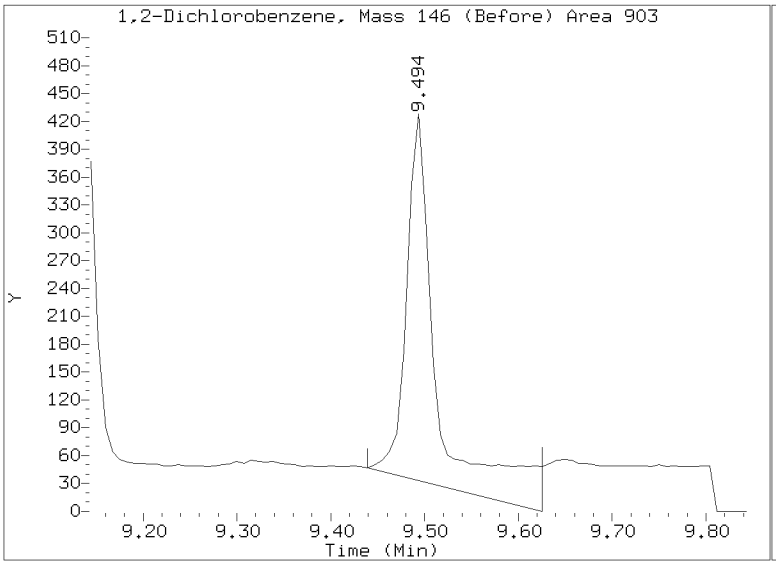
Datafile: //target/share/chem3/nt10.i/20230321.b/20230321.b/NT1003212306S.D
Injection Date: 21-MAR-2023 20:21
Lab ID:BLC0109-BLK2 Client ID:
Report Date: 03/29/2023 13:23

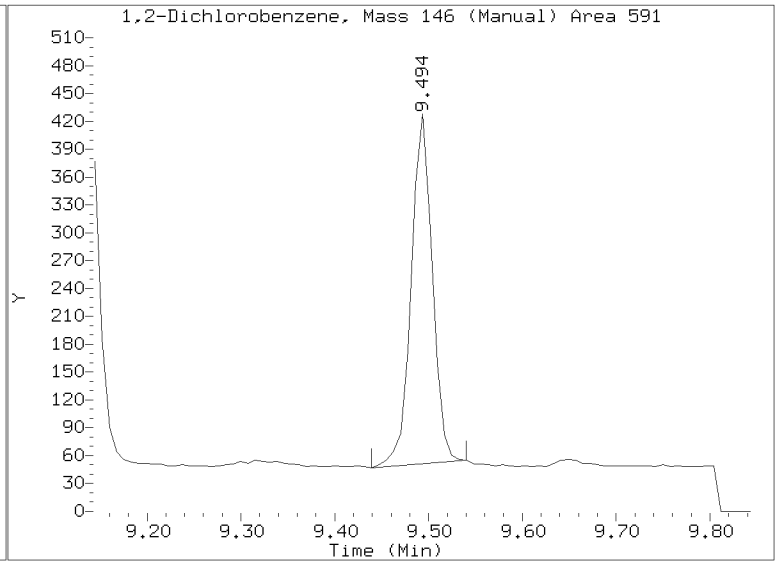












Quant Ion Manual Peak Adjustment Report

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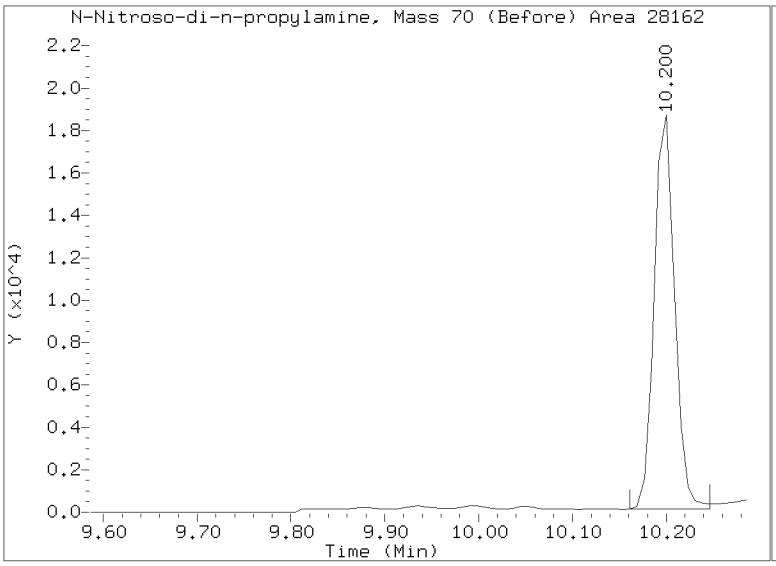
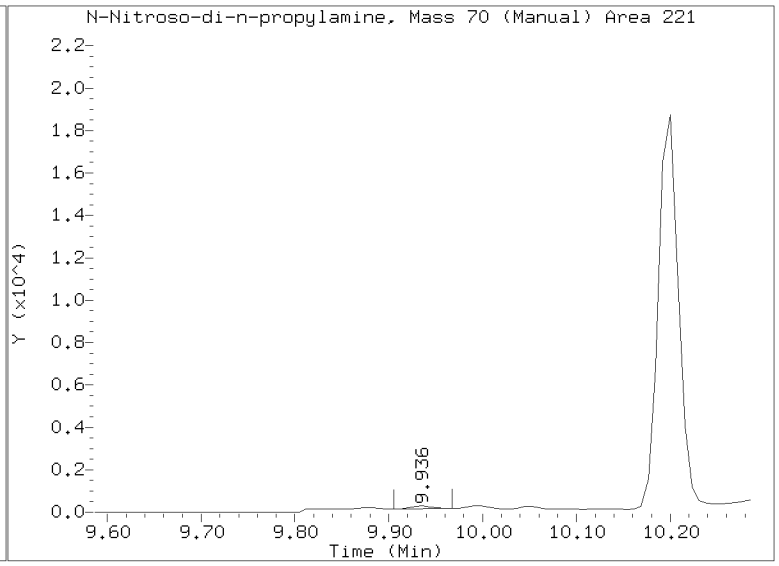
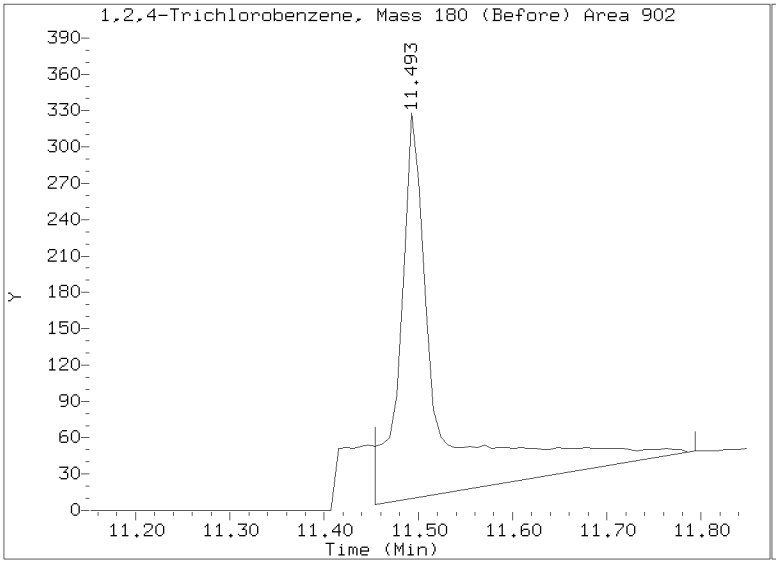
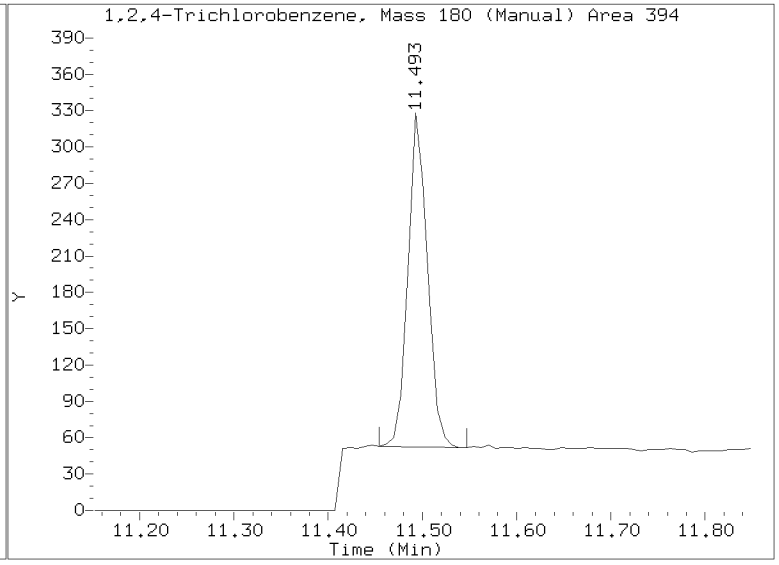
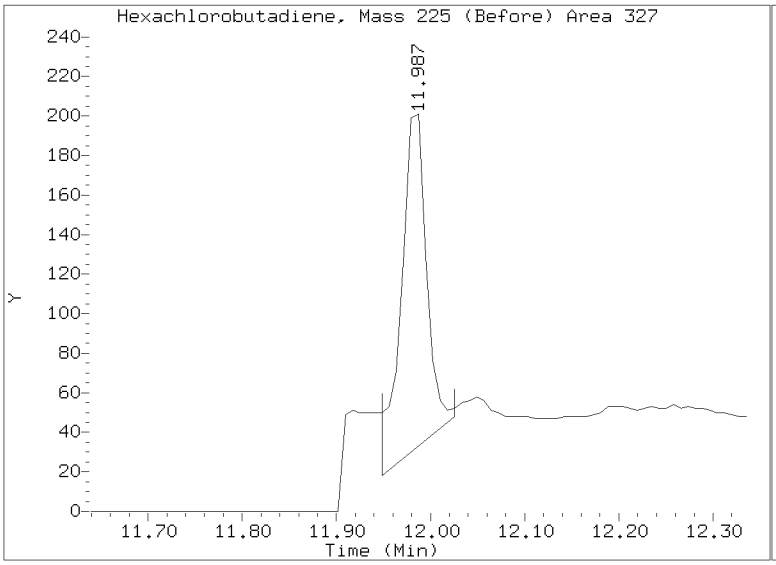
Injection Date: 21-MAR-2023 20:21
Lab ID:BLC0109-BLK2 Client ID:
Report Date: 03/29/2023 13:23

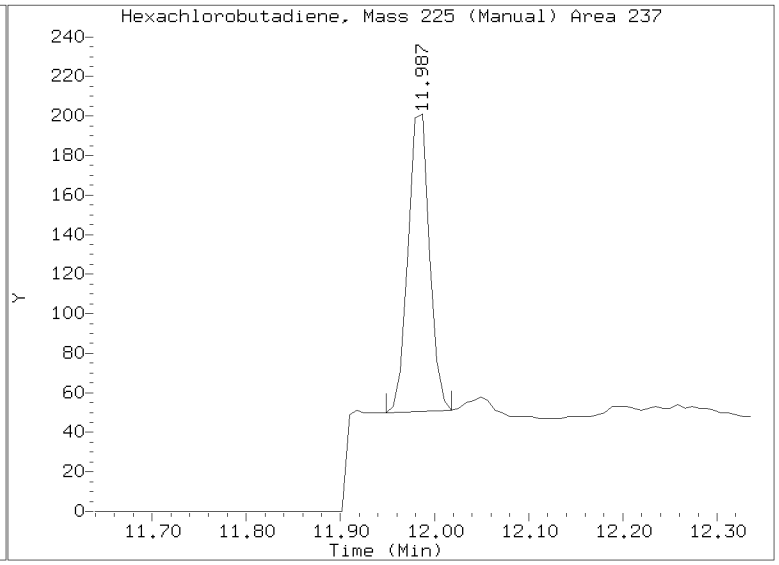












Quant Ion Manual Peak Adjustment Report

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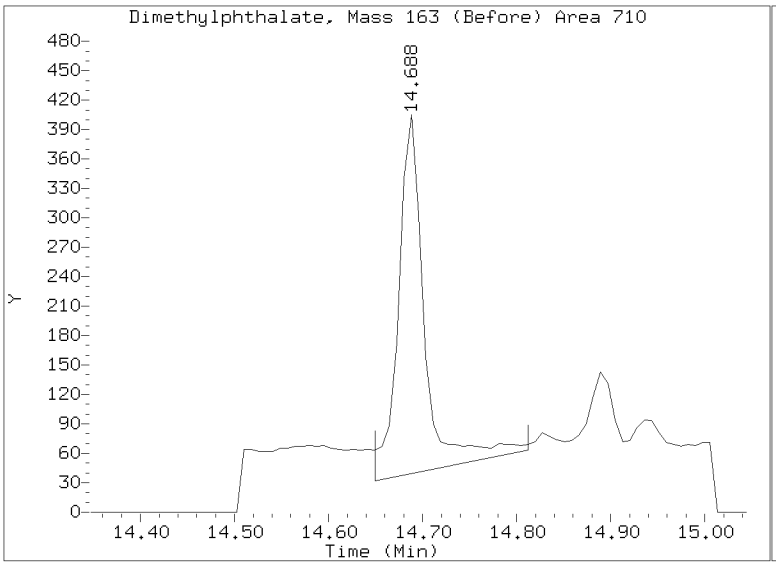
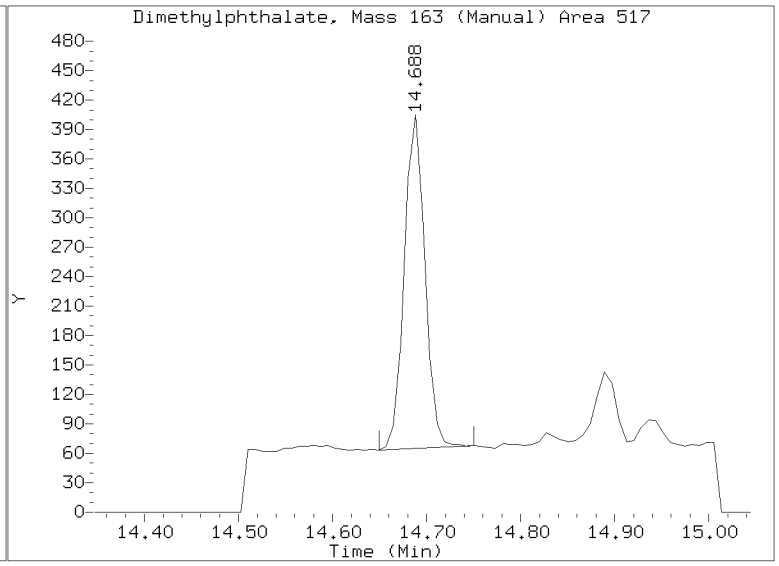
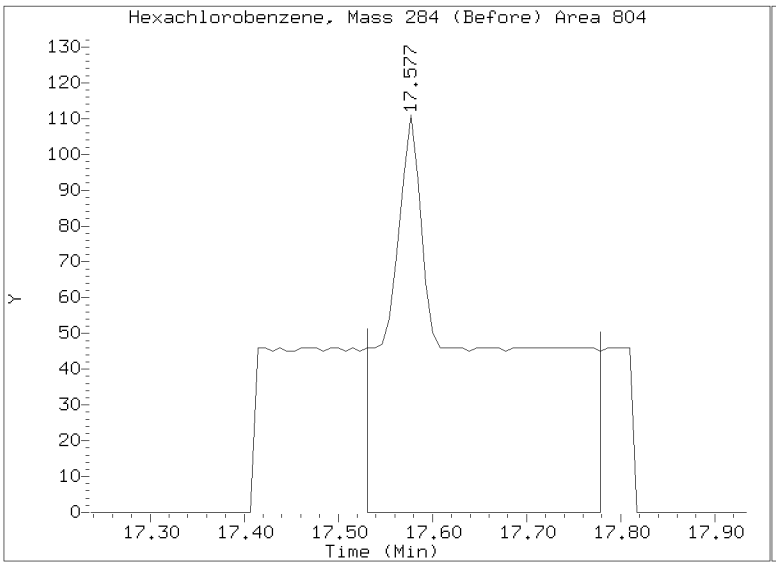
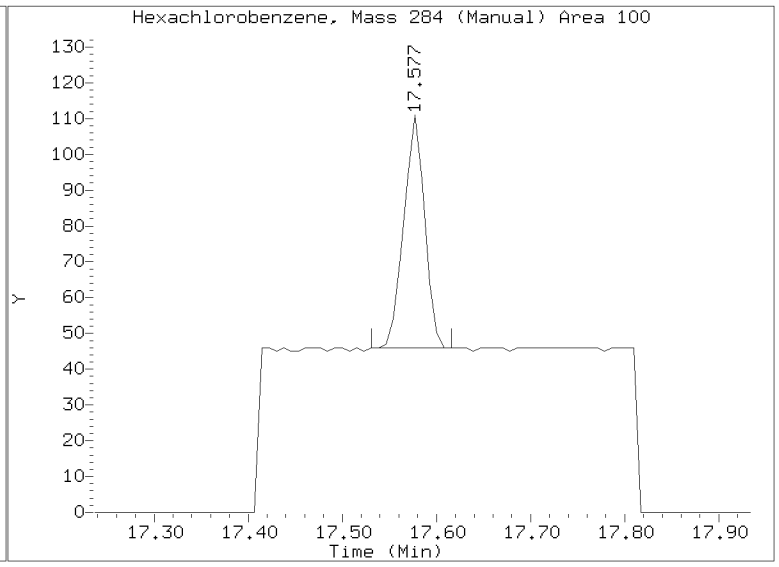
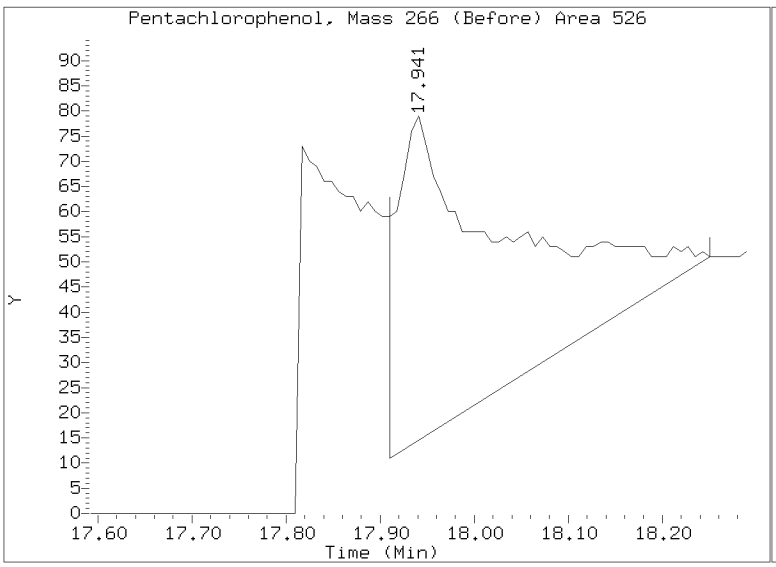
Injection Date: 21-MAR-2023 20:21
Lab ID:BLC0109-BLK2 Client ID:
Report Date: 03/29/2023 13:23

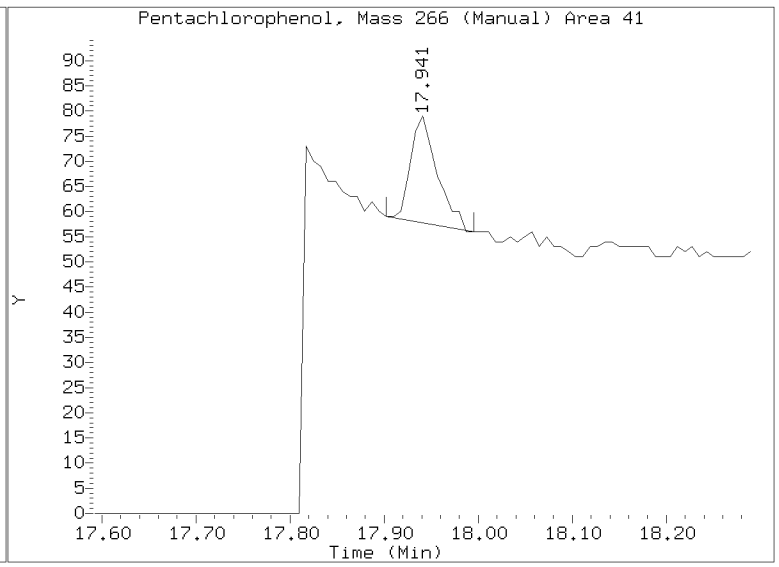












Quant Ion Manual Peak Adjustment Report

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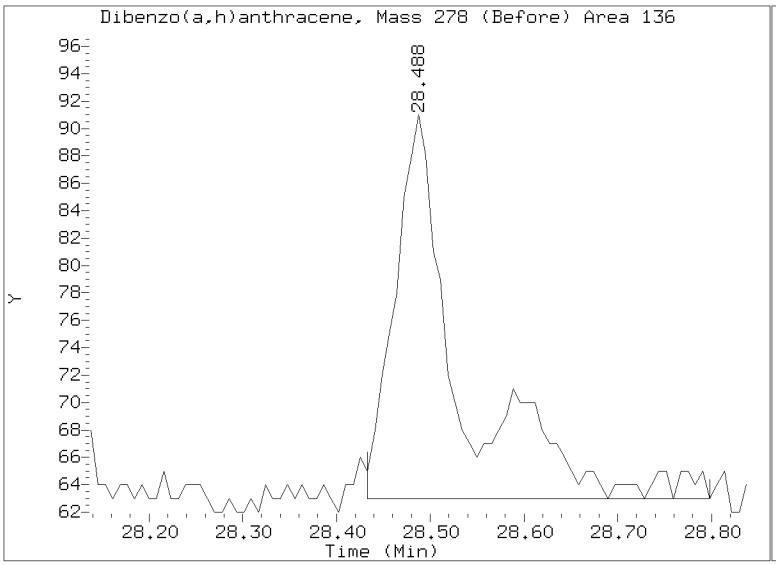
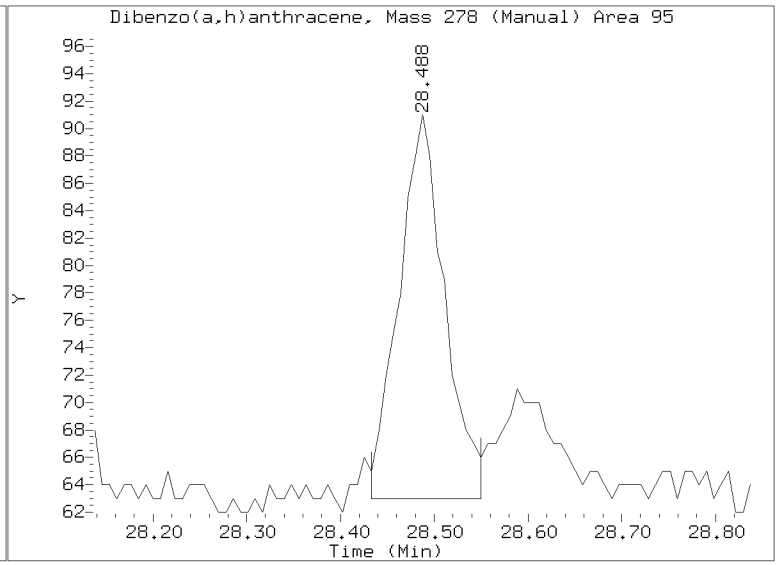
Injection Date: 21-MAR-2023 20:21
Lab ID:BLC0109-BLK2 Client ID:
Report Date: 03/29/2023 13:23





LCS / LCS DUPLICATE RECOVERY

EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Matrix:	Solid	Analyzed:	03/21/23 21:00
Batch:	BLC0109	Laboratory ID:	BLC0109-BS2
Preparation:	EPA 3546 (Microwave)	Sequence Name:	LCS
Initial/Final:	10 g / 1 mL		

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	Q	LCS % REC. #	QC LIMITS REC.
1,4-Dichlorobenzene	500	349		69.8	36 - 120
1,2-Dichlorobenzene	500	346		69.3	36 - 120
Benzyl Alcohol	500	361		72.2	25 - 123
Benzoic acid	2300	2740		119	10 - 160
2,4-Dimethylphenol	1300	449		34.5	10 - 120
1,2,4-Trichlorobenzene	500	349		69.7	35 - 120
N-Nitrosodiphenylamine	500	356		71.2	27 - 120
Pentachlorophenol	1300	1450		111	26 - 120

* Indicates values outside of QC limits

COMPOUND	SPIKE ADDED (ug/kg wet)	LCSD CONCENTRATION (ug/kg wet)	Q	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,4-Dichlorobenzene	500	401		80.1	13.8	30	36 - 120
1,2-Dichlorobenzene	500	398		79.6	13.9	30	36 - 120
Benzyl Alcohol	500	405		81.0	11.5	30	25 - 123
Benzoic acid	2300	3020		131	9.91	30	10 - 160
2,4-Dimethylphenol	1300	247	*	19.0	58.0 *	30	10 - 120
1,2,4-Trichlorobenzene	500	398		79.6	13.3	30	35 - 120
N-Nitrosodiphenylamine	500	395		79.0	10.4	30	27 - 120
Pentachlorophenol	1300	1600	*	123 *	9.71	30	26 - 120

* Indicates values outside of QC limits

Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT10032123075.D

Page 1

Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

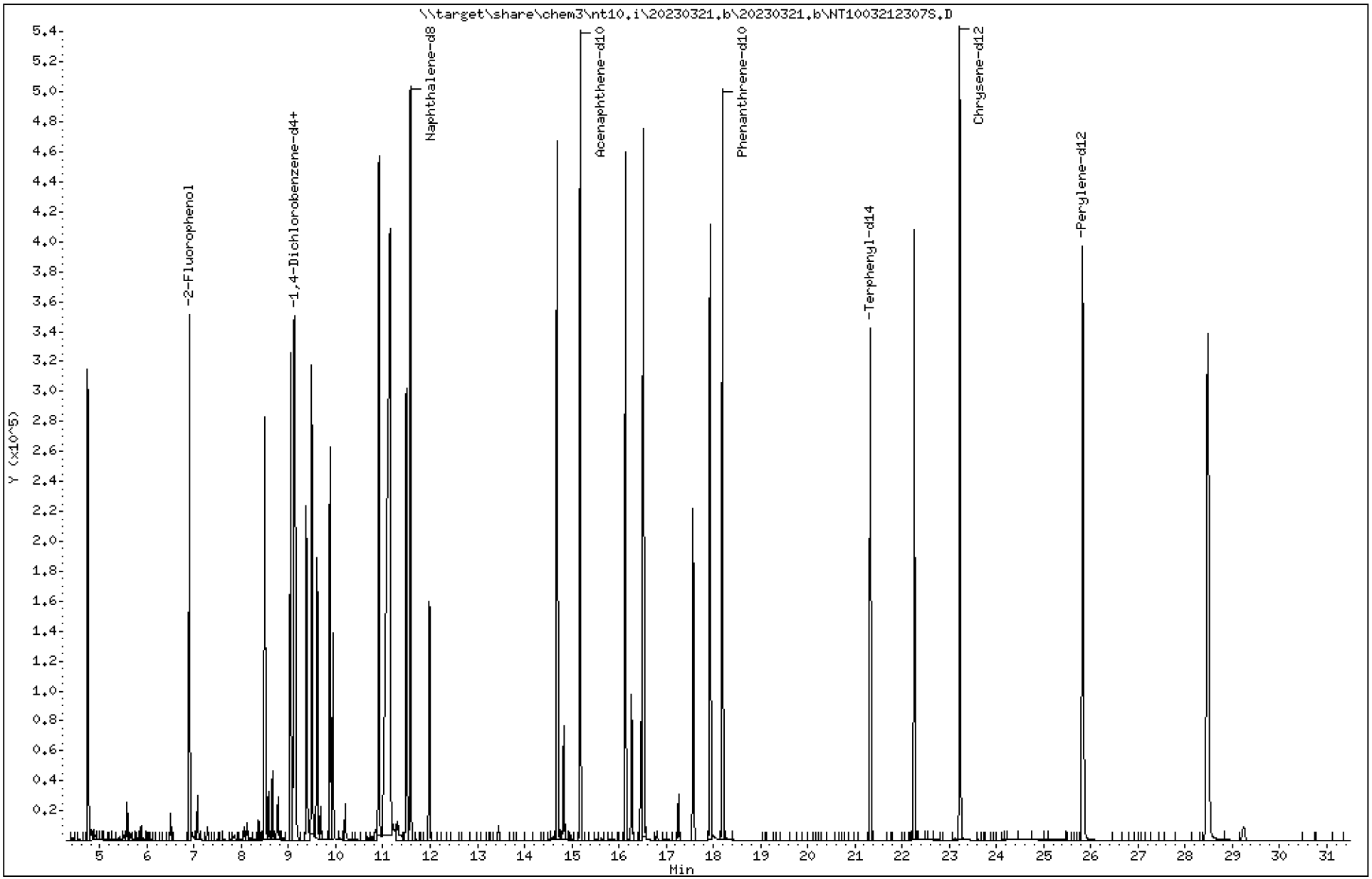
Sample Info: BLC0109-BS2

Volume Injected (uL): 1.0

Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25



Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212307S.D

Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS2

Volume Injected (uL): 1.0

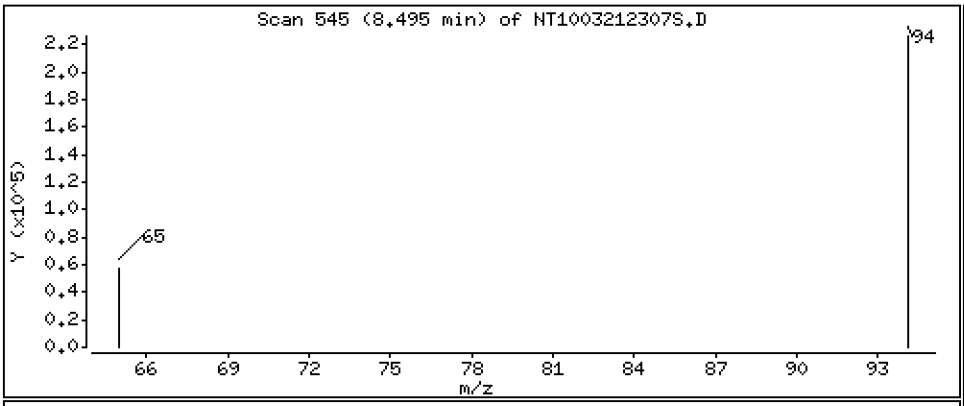
Operator: JGR

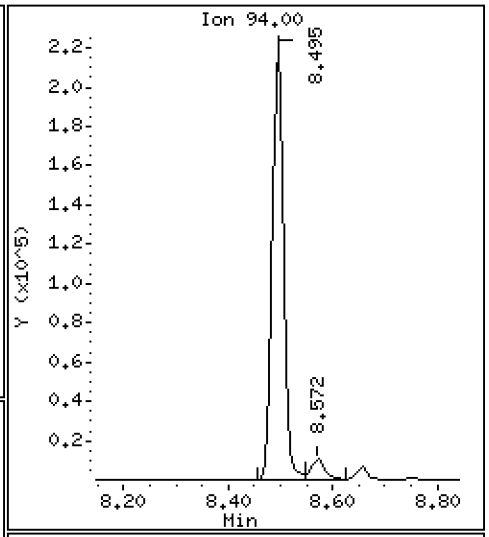
Column phase: ZB-5msi

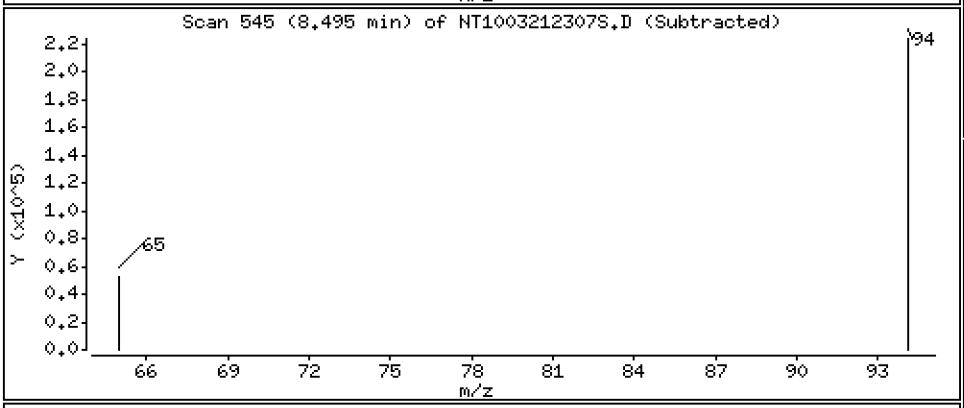
Column diameter: 0.25

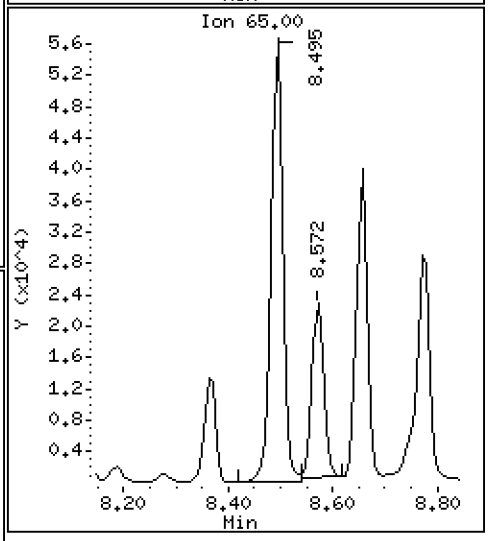
3 Phenol

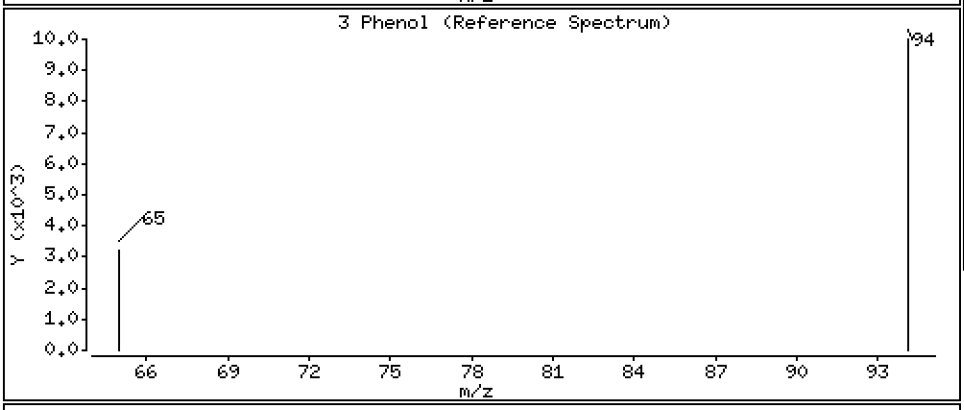
Concentration: 3.370 ug/L

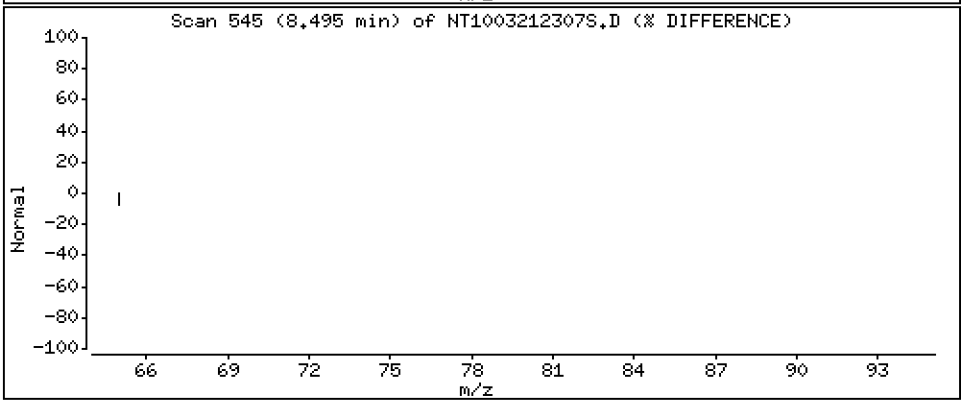












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Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS2

Volume Injected (uL): 1.0

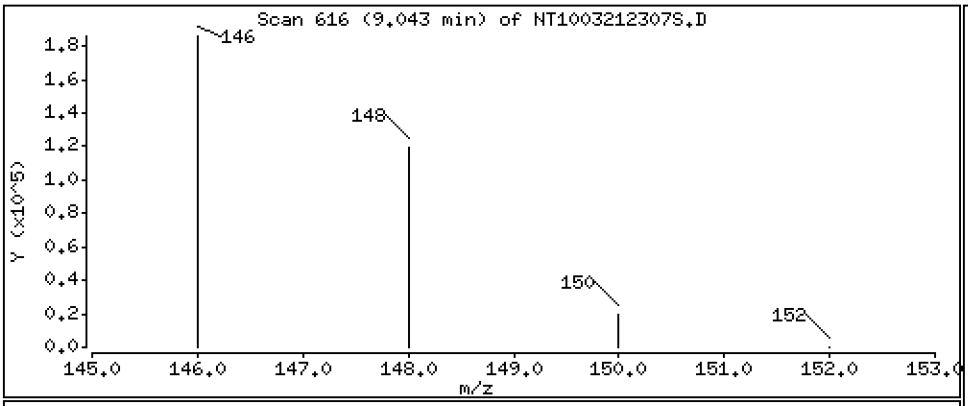
Operator: JGR

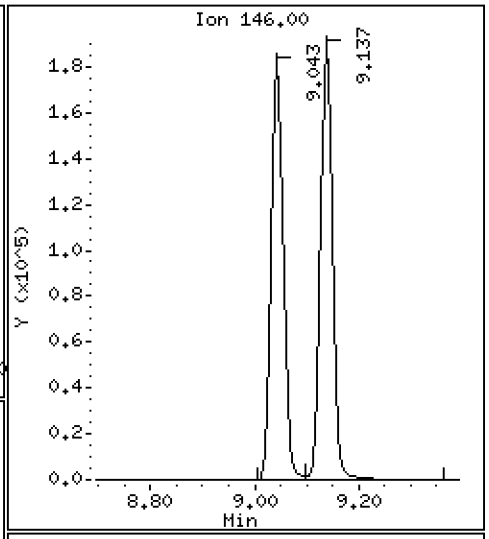
Column phase: ZB-5msi

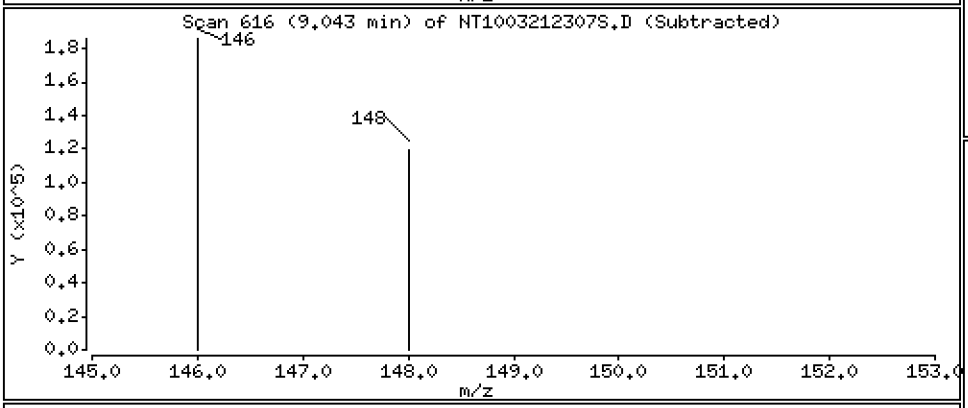
Column diameter: 0.25

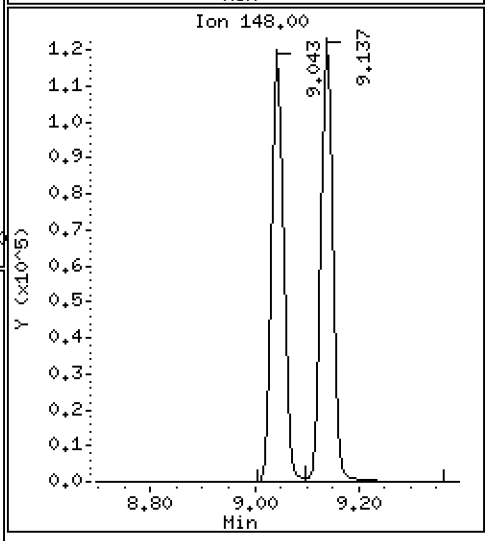
7 1,3-Dichlorobenzene

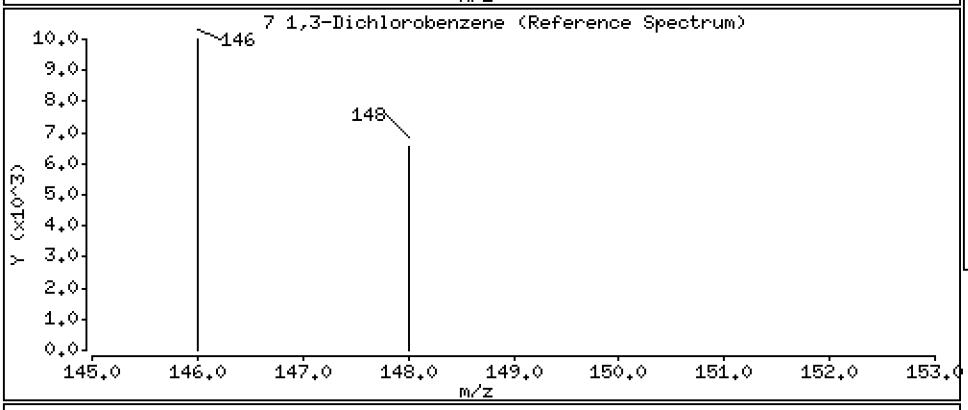
Concentration: 3.376 ug/L

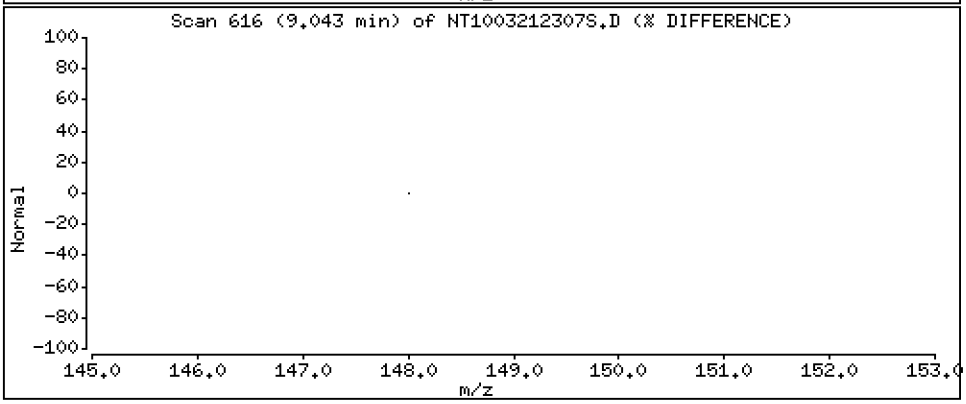












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Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS2

Volume Injected (uL): 1.0

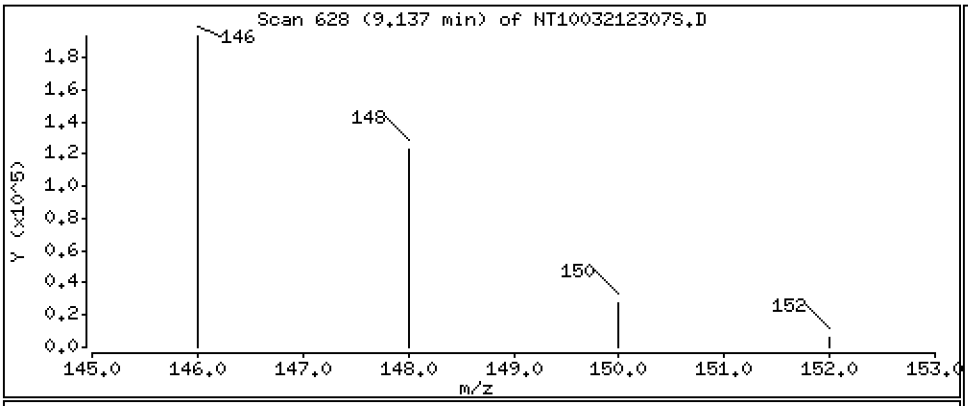
Operator: JGR

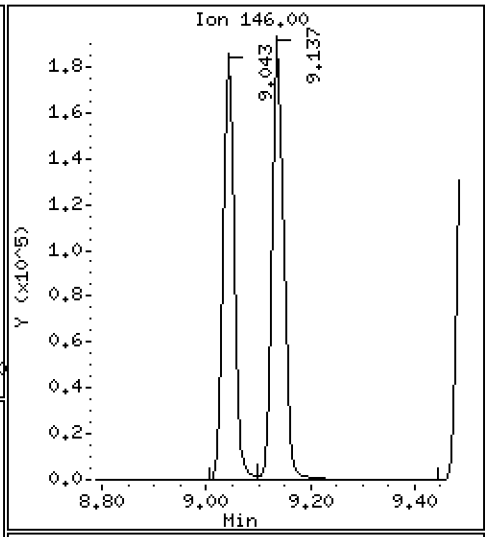
Column phase: ZB-5msi

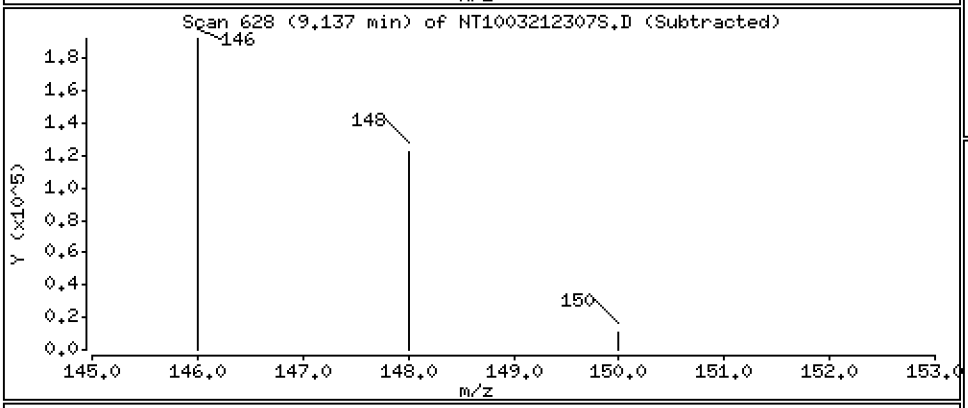
Column diameter: 0.25

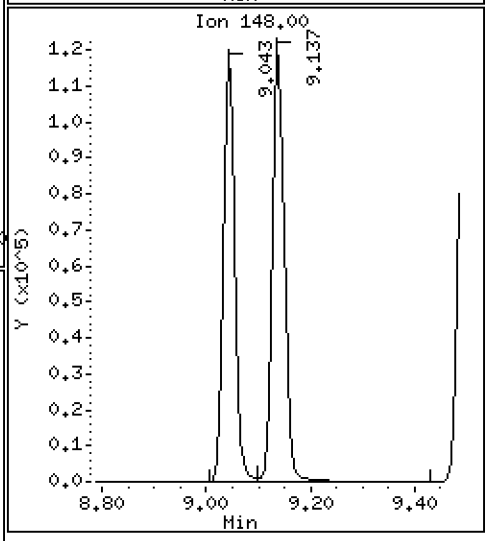
9 1,4-Dichlorobenzene

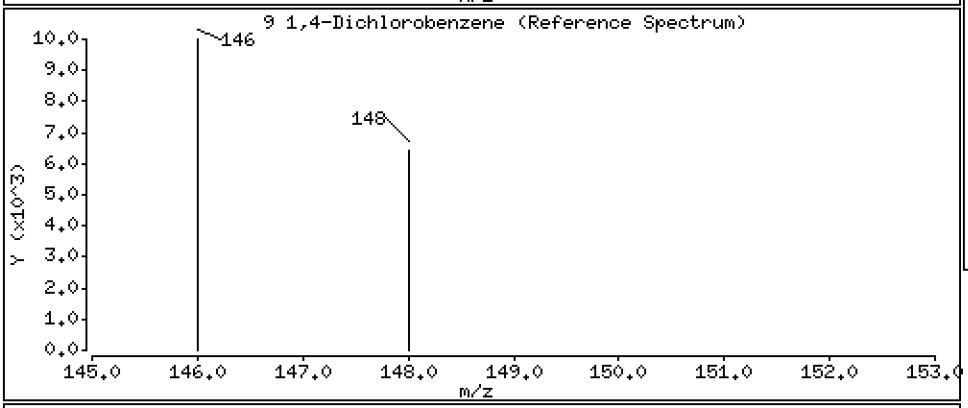
Concentration: 3.488 ug/L

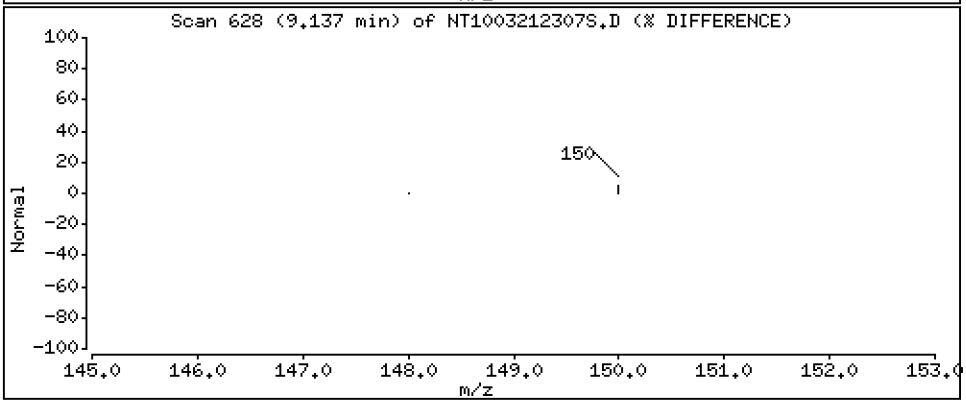












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212307S.D

Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS2

Volume Injected (uL): 1.0

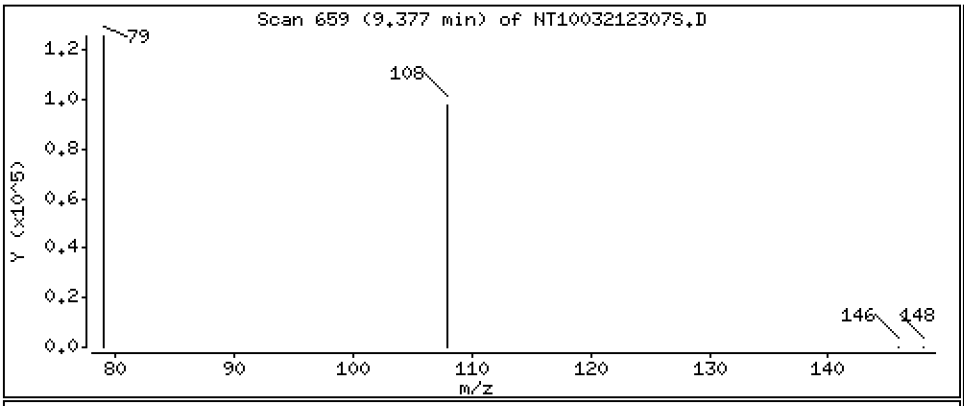
Operator: JGR

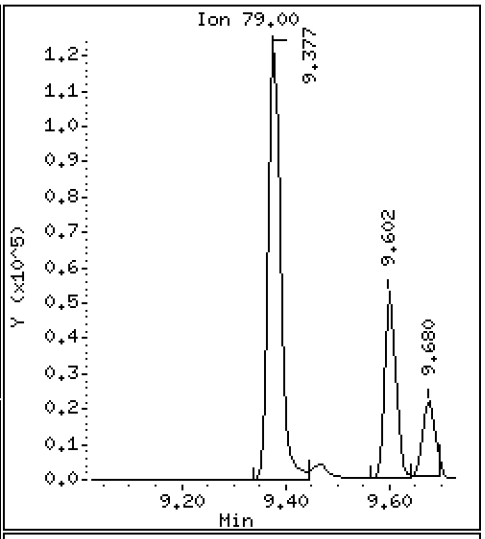
Column phase: ZB-5msi

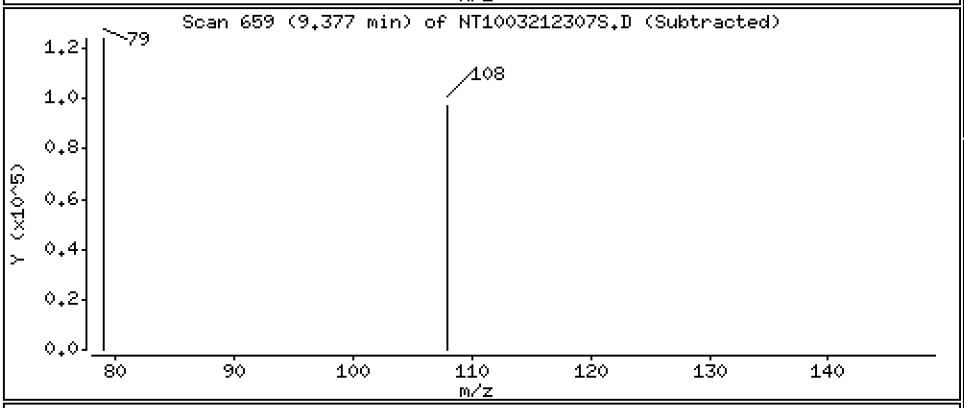
Column diameter: 0.25

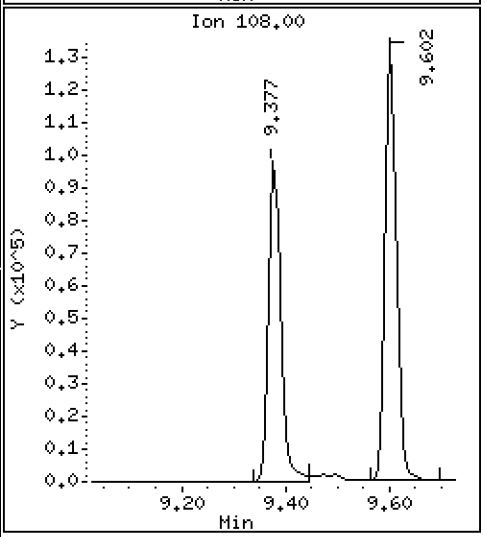
11 Benzyl alcohol

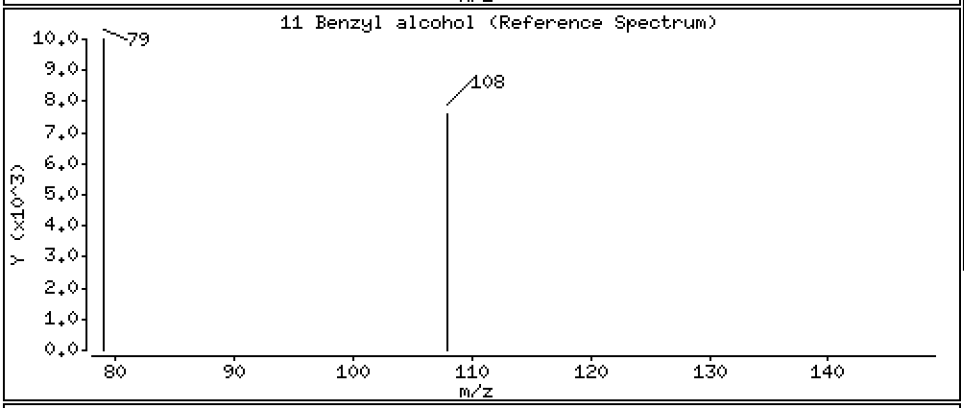
Concentration: 3.608 ug/L

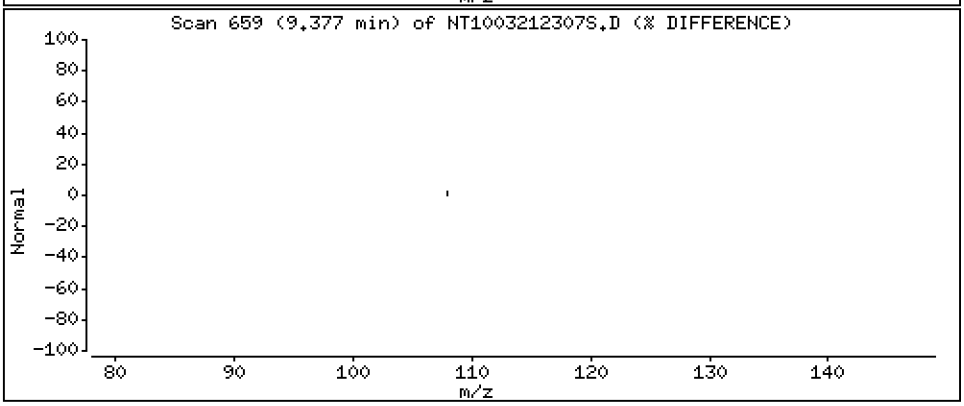












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212307S.D

Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS2

Volume Injected (uL): 1.0

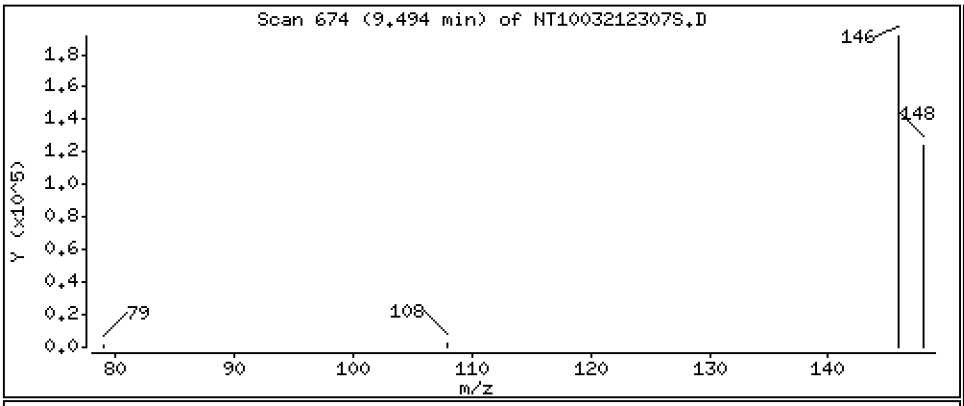
Operator: JGR

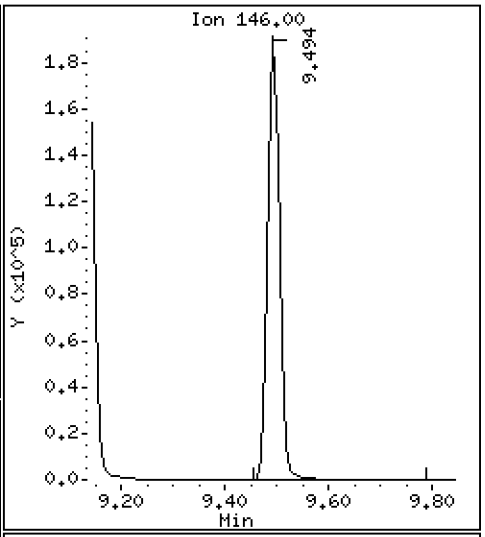
Column phase: ZB-5msi

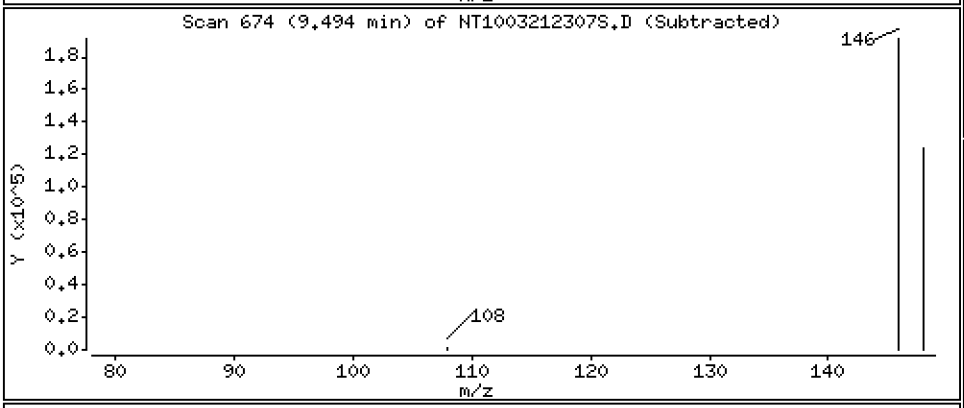
Column diameter: 0.25

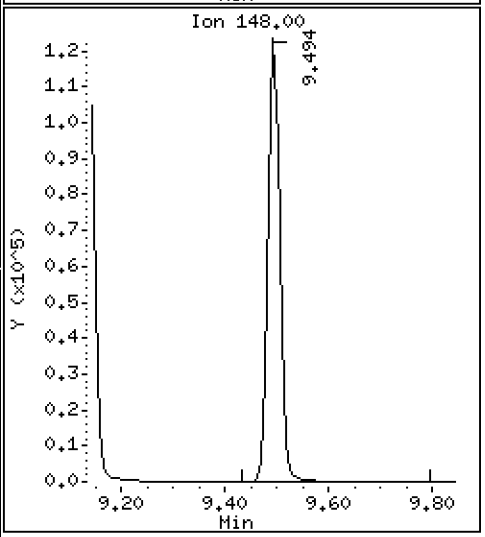
12 1,2-Dichlorobenzene

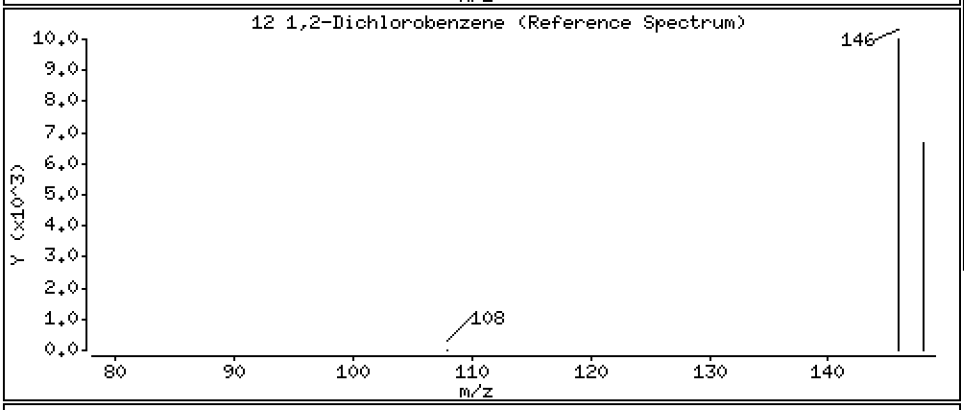
Concentration: 3.465 ug/L

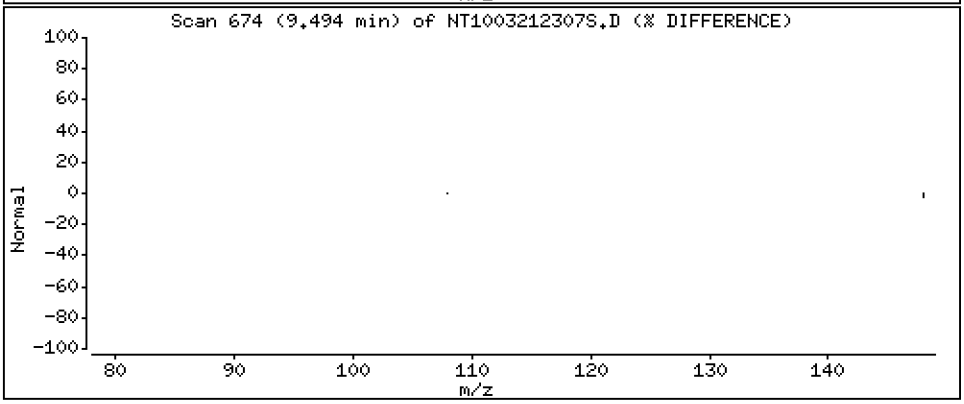












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212307S.D

Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS2

Volume Injected (uL): 1.0

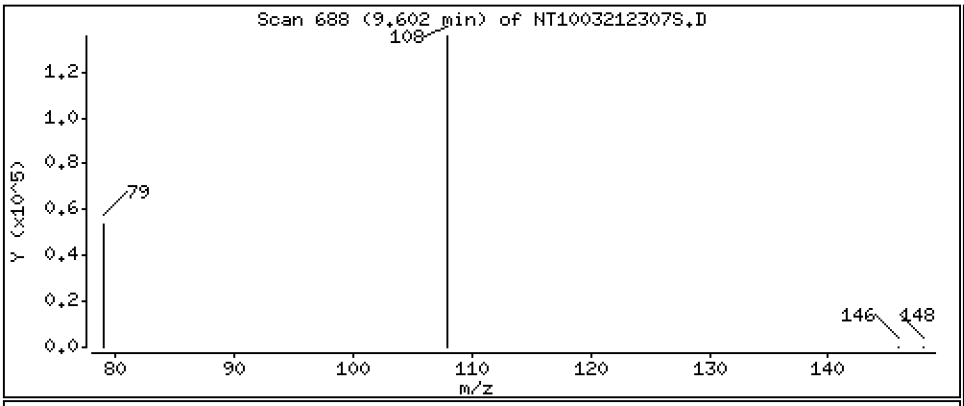
Operator: JGR

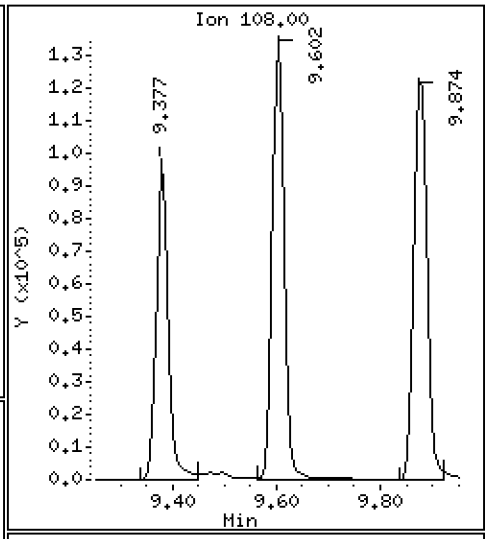
Column phase: ZB-5msi

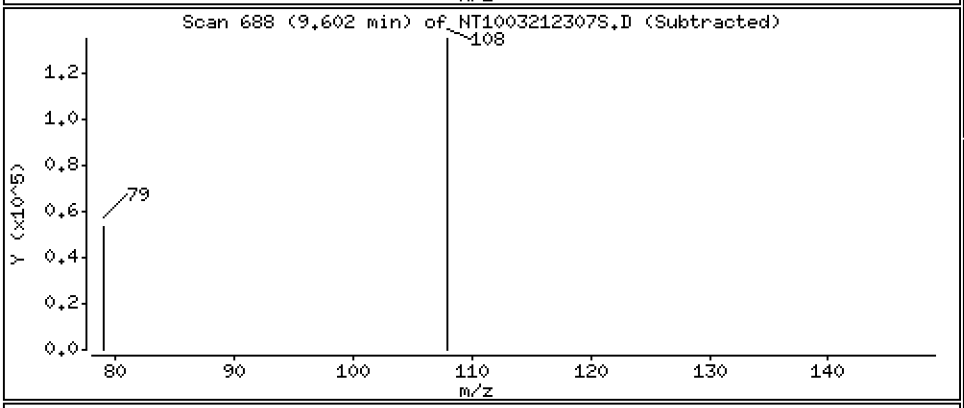
Column diameter: 0.25

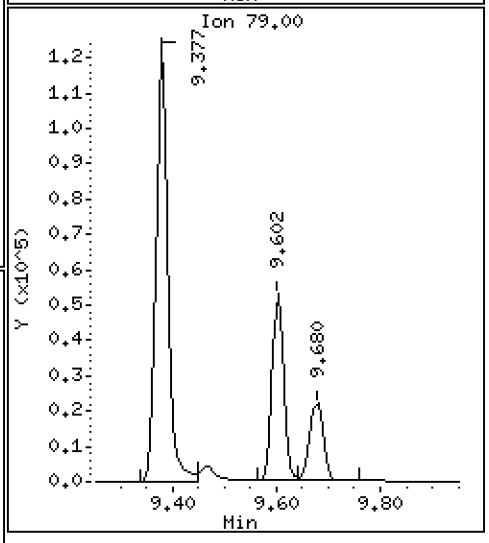
13 2-Methylphenol

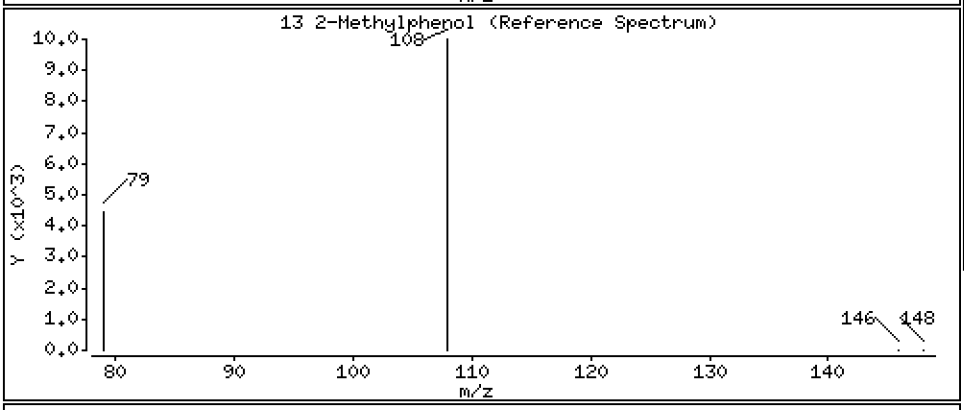
Concentration: 3.128 ug/L

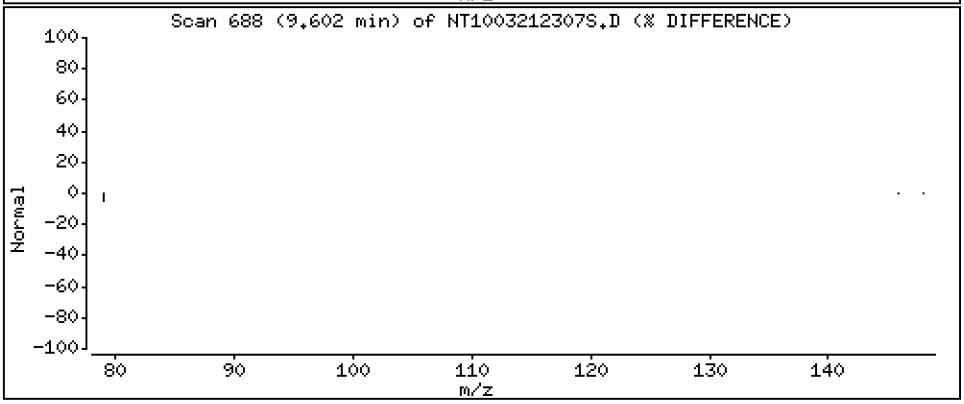












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212307S.D

Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS2

Volume Injected (uL): 1.0

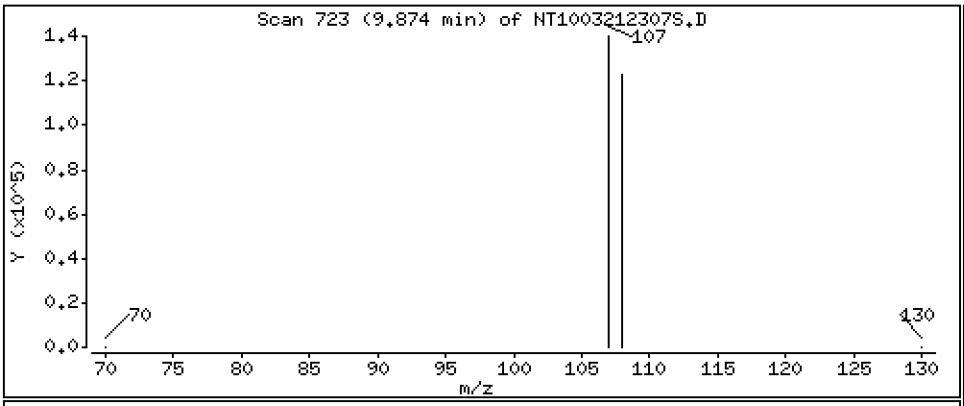
Operator: JGR

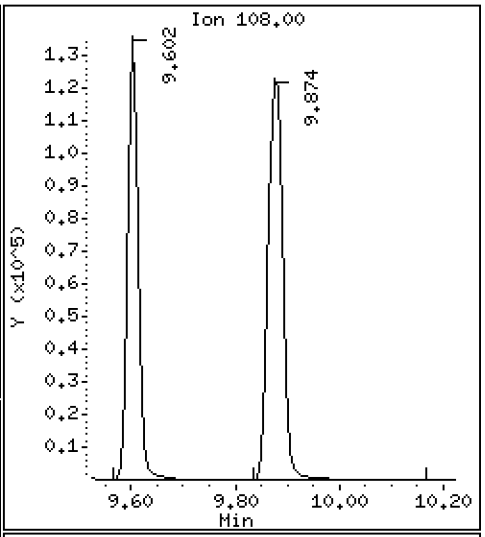
Column phase: ZB-5msi

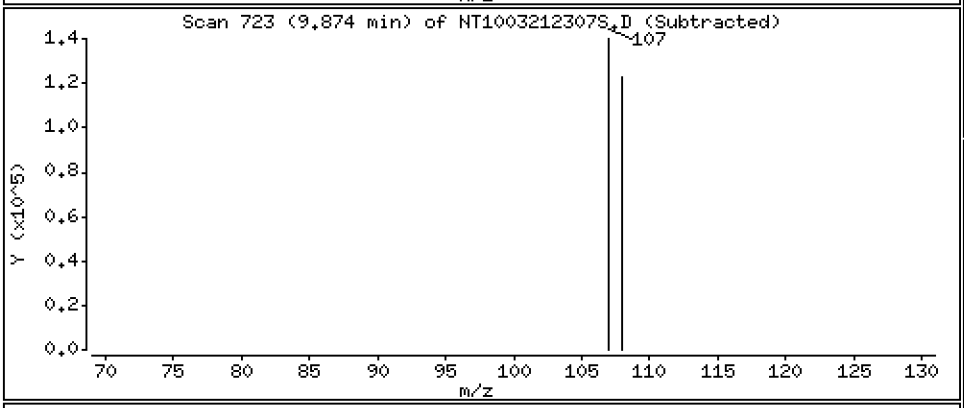
Column diameter: 0.25

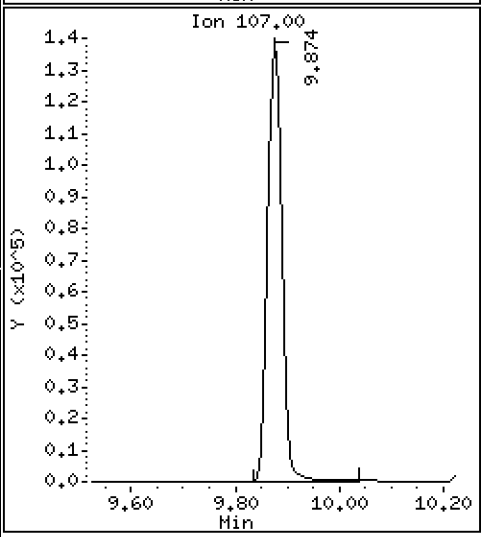
15 4-Methylphenol

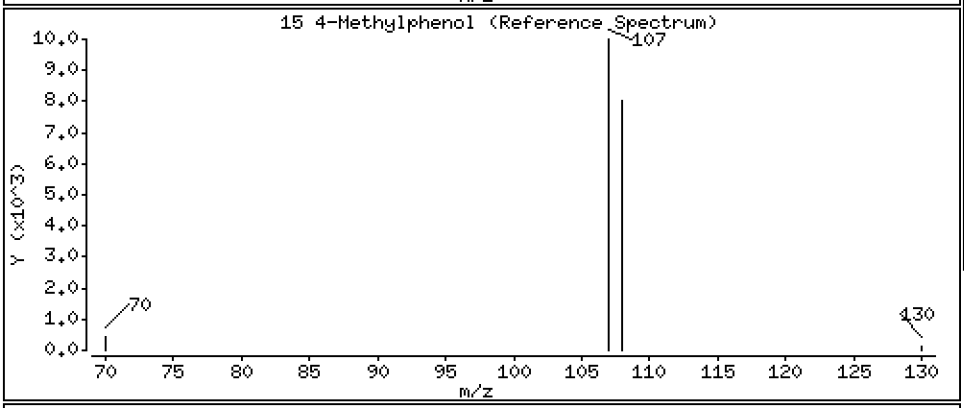
Concentration: 3.515 ug/L

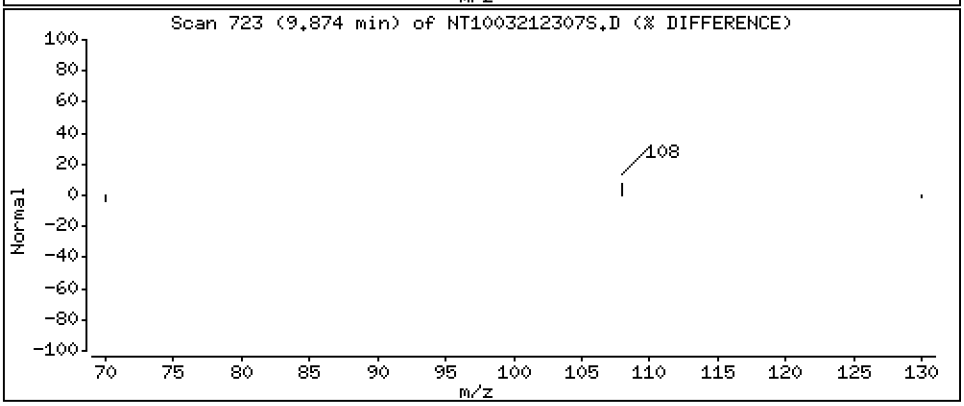












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212307S.D

Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS2

Volume Injected (uL): 1.0

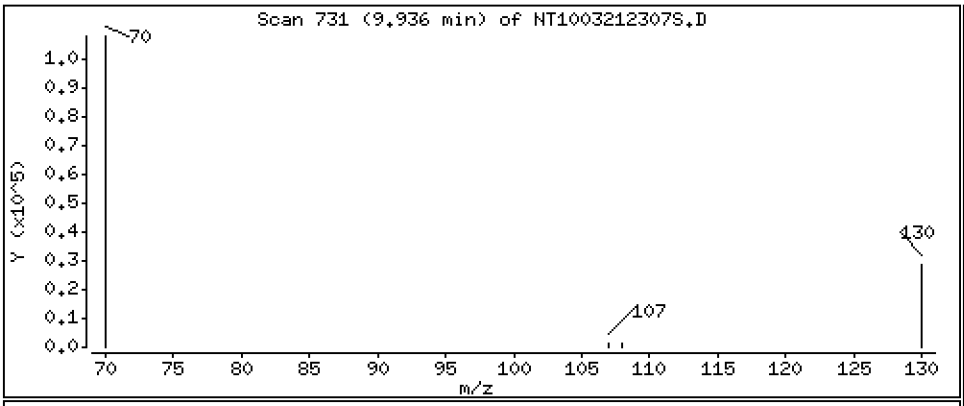
Operator: JGR

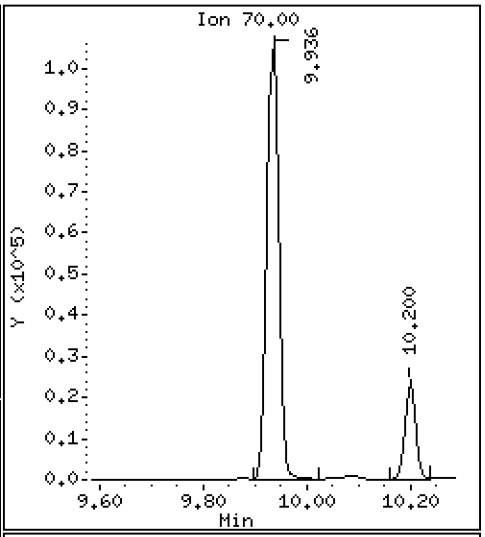
Column phase: ZB-5msi

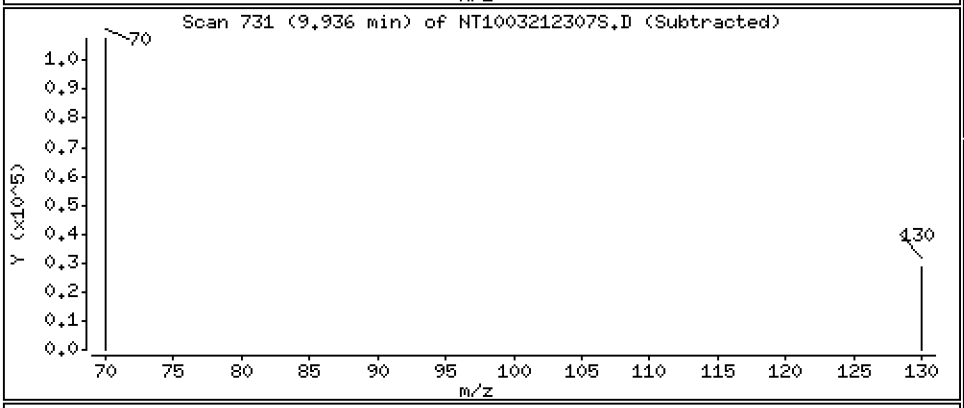
Column diameter: 0.25

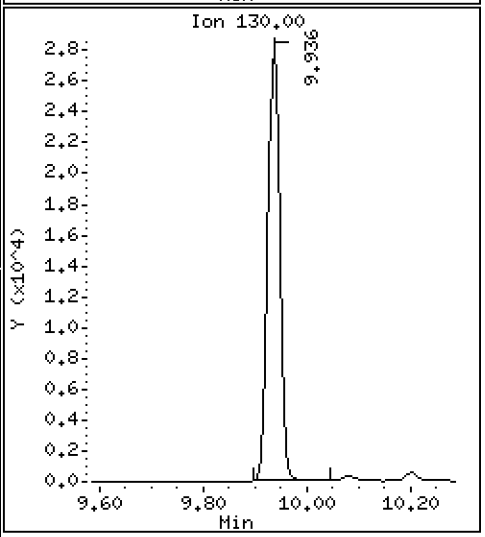
16 N-Nitroso-di-n-propylamine

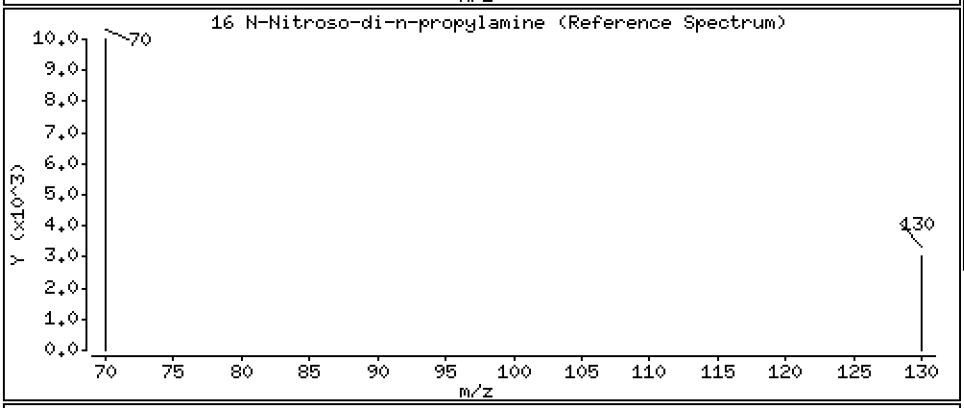
Concentration: 3.425 ug/L

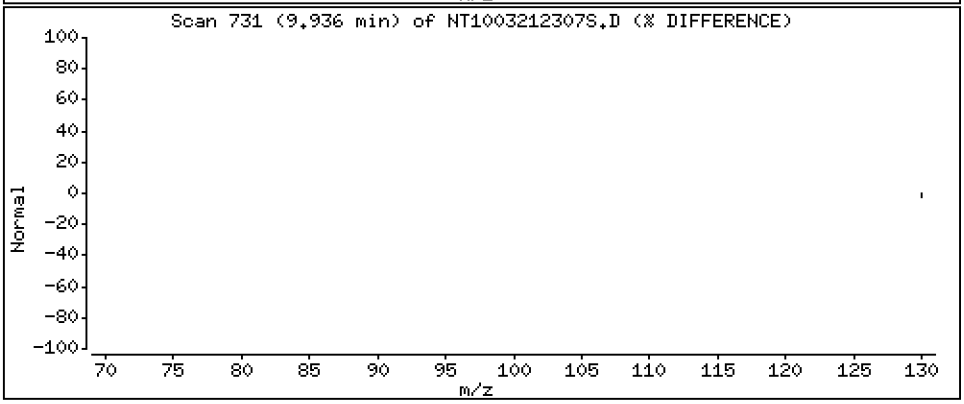












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212307S.D

Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS2

Volume Injected (uL): 1.0

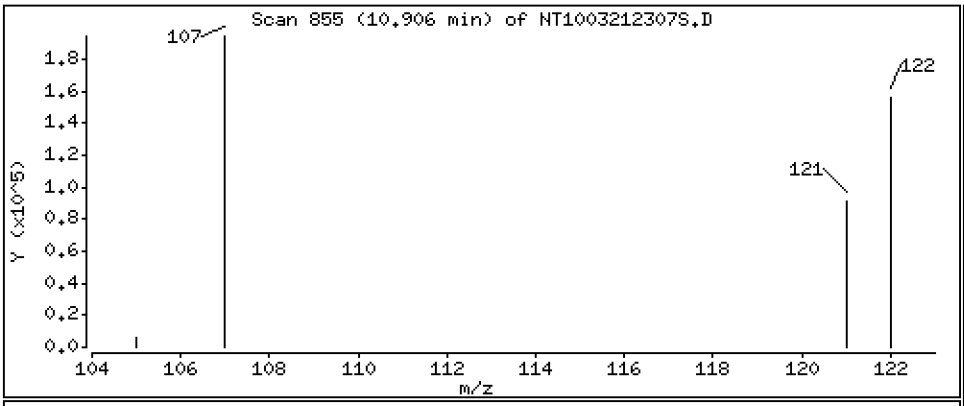
Operator: JGR

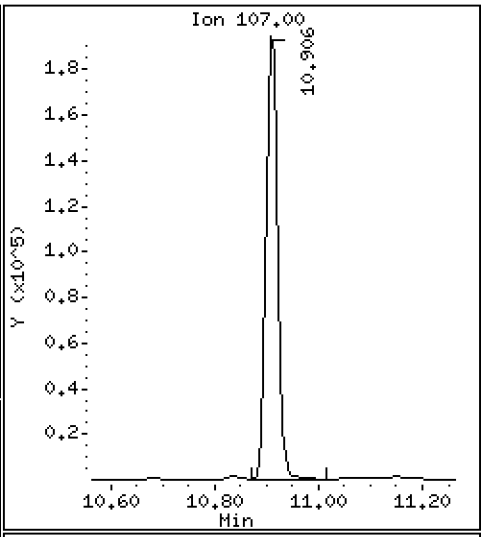
Column phase: ZB-5msi

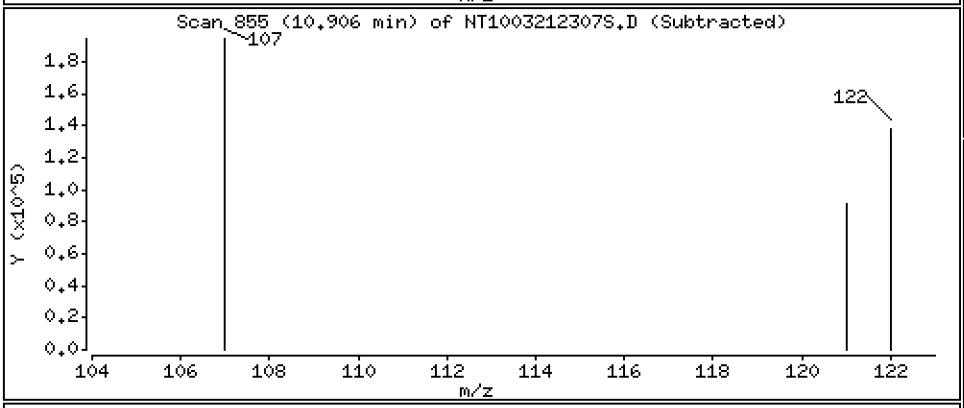
Column diameter: 0.25

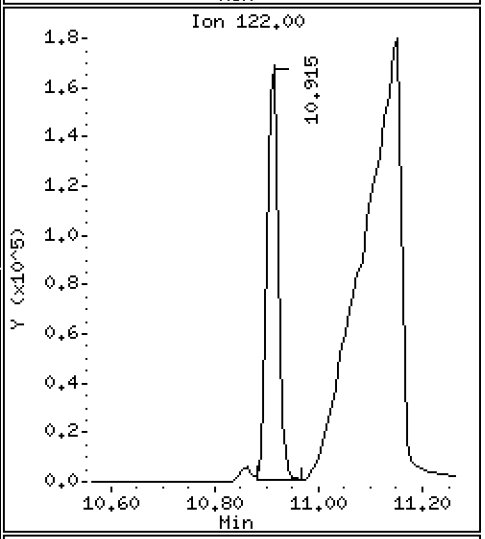
22 2,4-Dimethylphenol

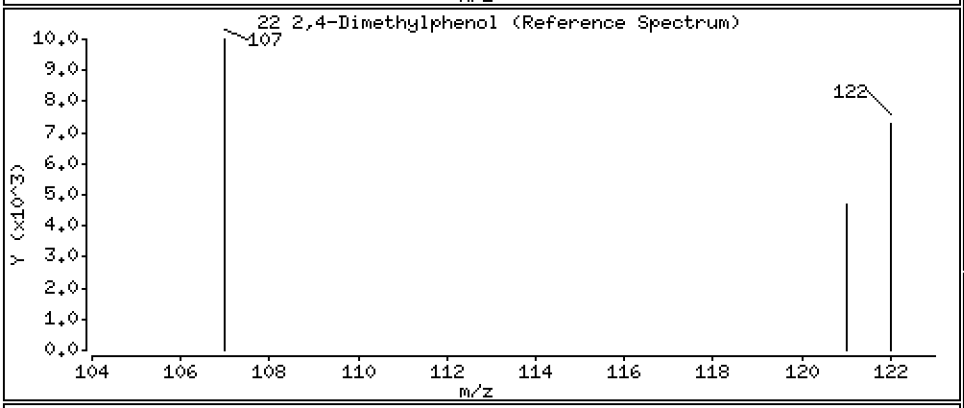
Concentration: 4.490 ug/L

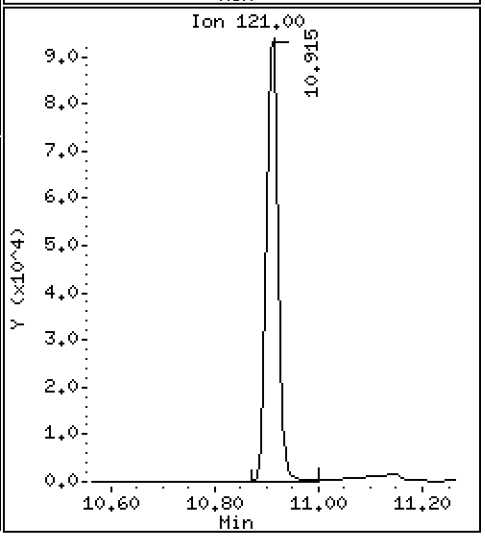


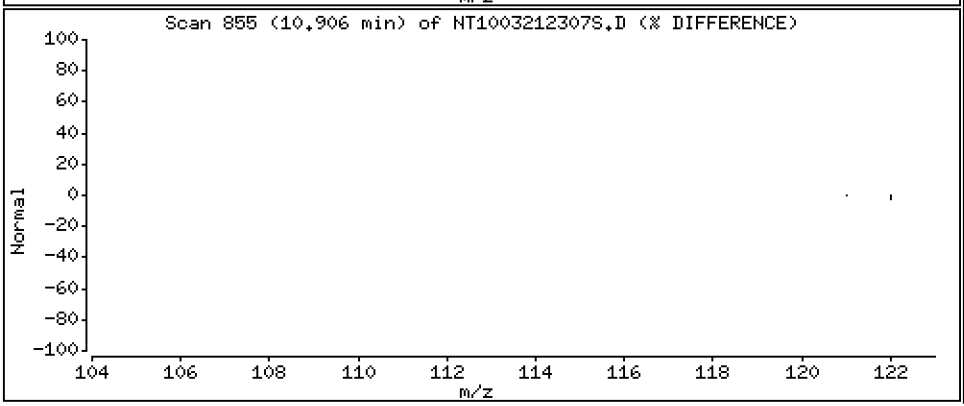












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212307S.D

Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS2

Volume Injected (uL): 1.0

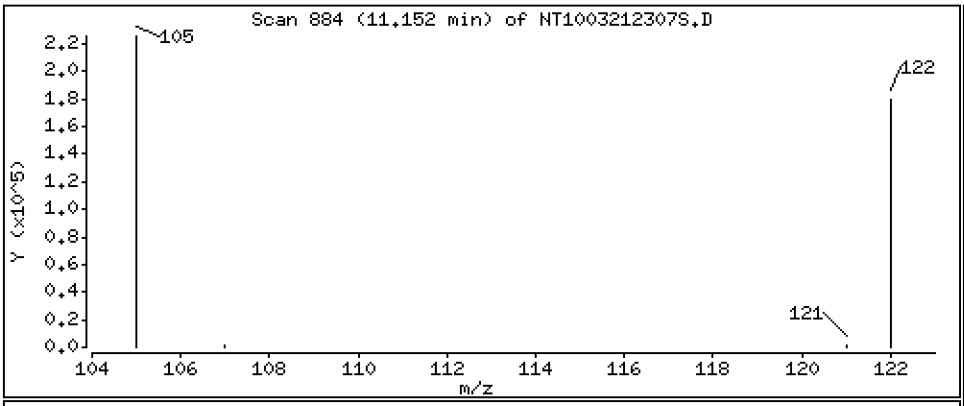
Operator: JGR

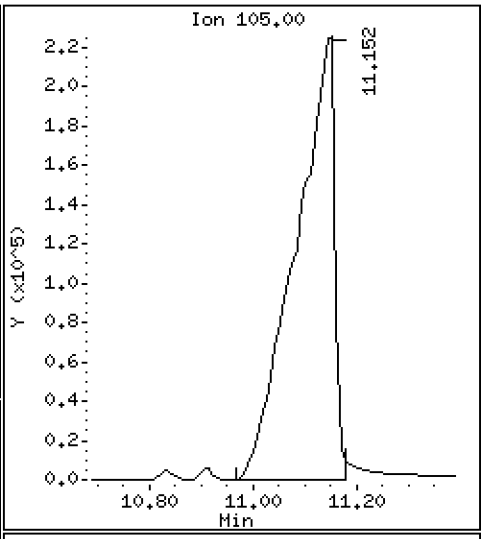
Column phase: ZB-5msi

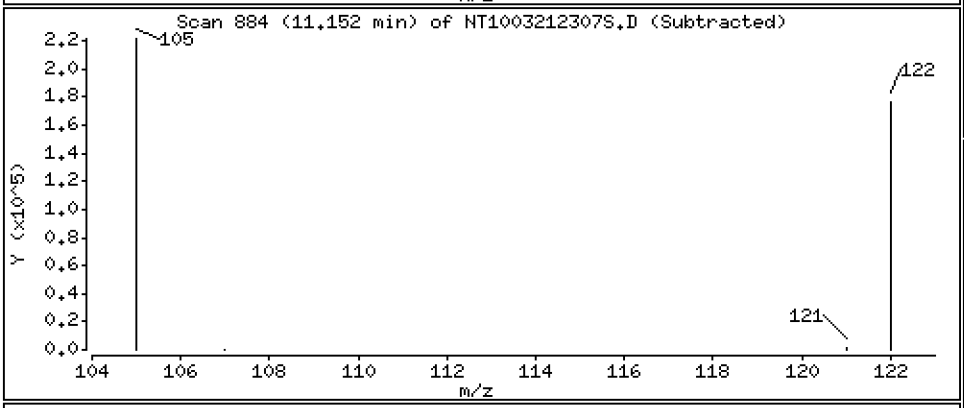
Column diameter: 0.25

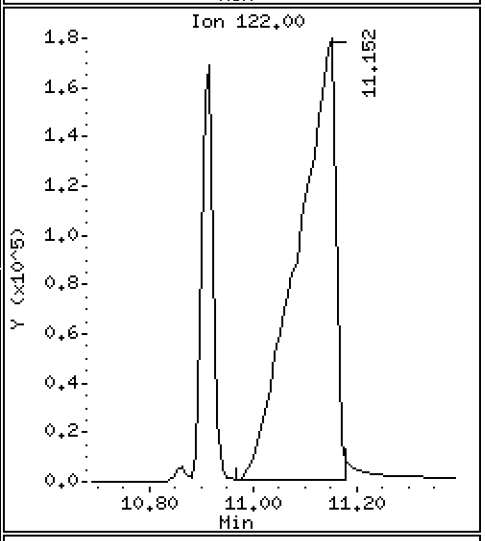
24 Benzoic acid

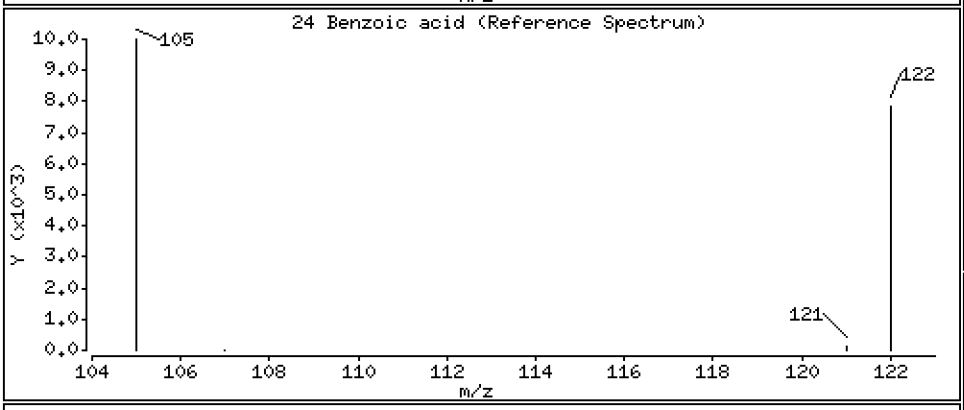
Concentration: 27.38 ug/L

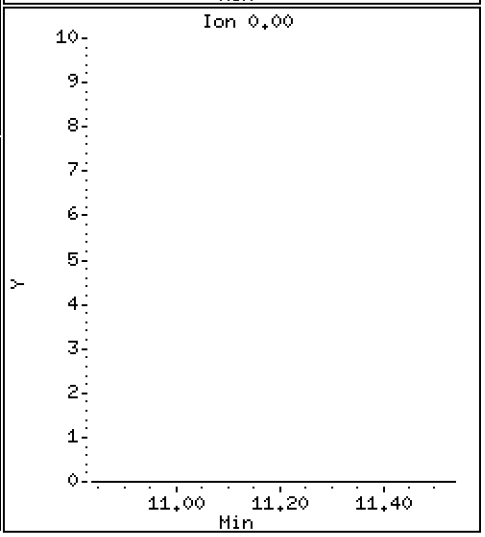


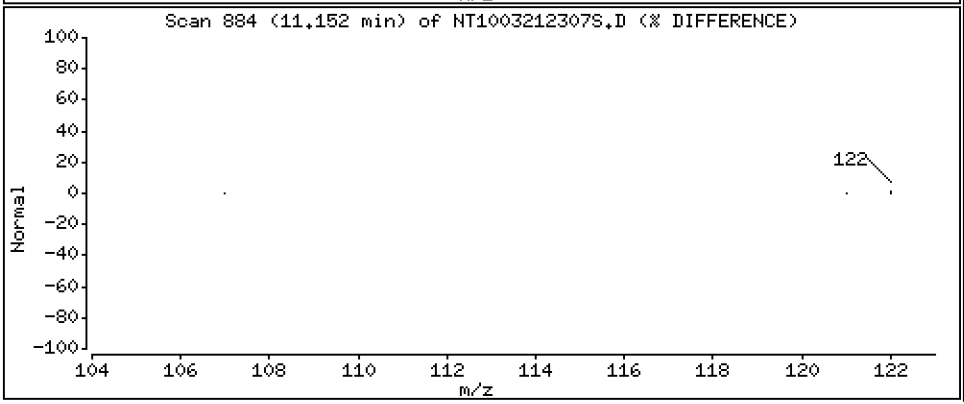












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212307S.D

Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS2

Volume Injected (uL): 1.0

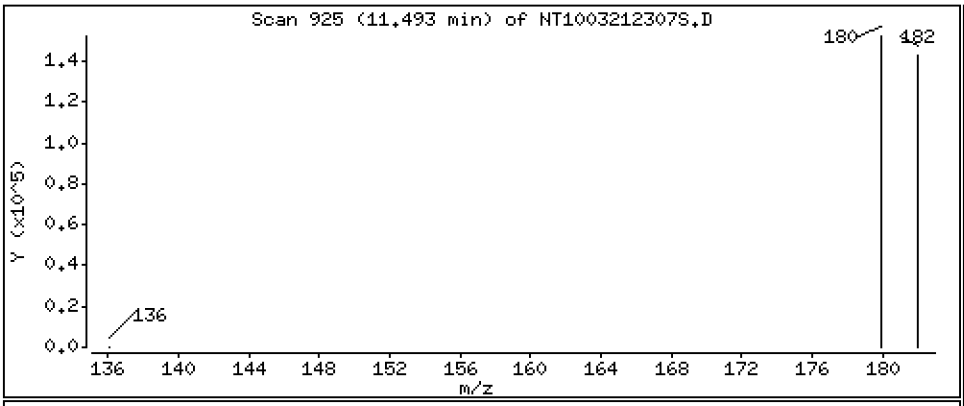
Operator: JGR

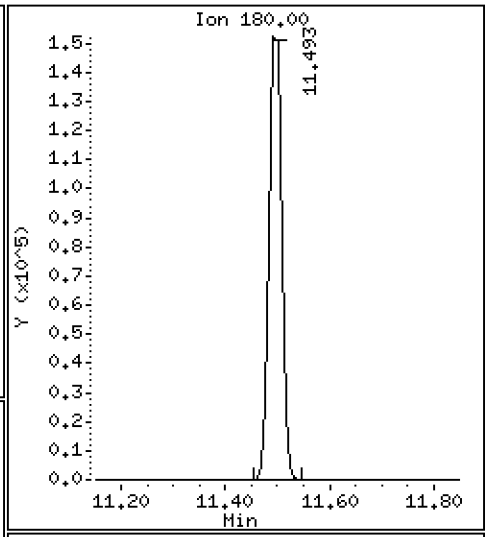
Column phase: ZB-5msi

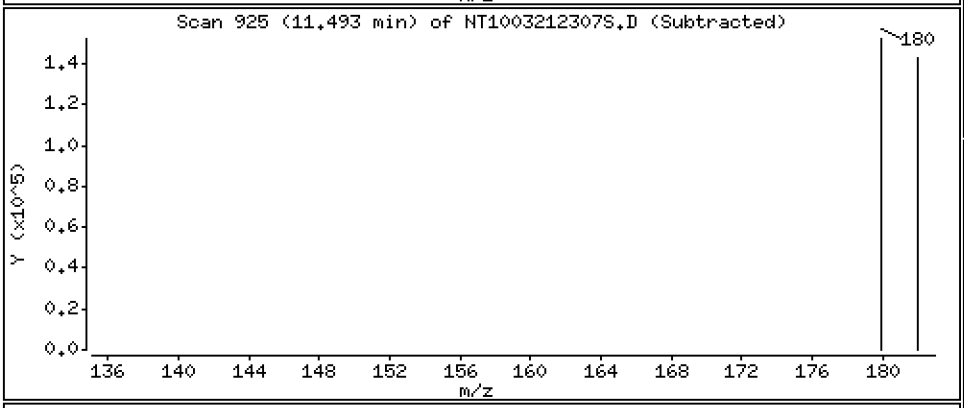
Column diameter: 0.25

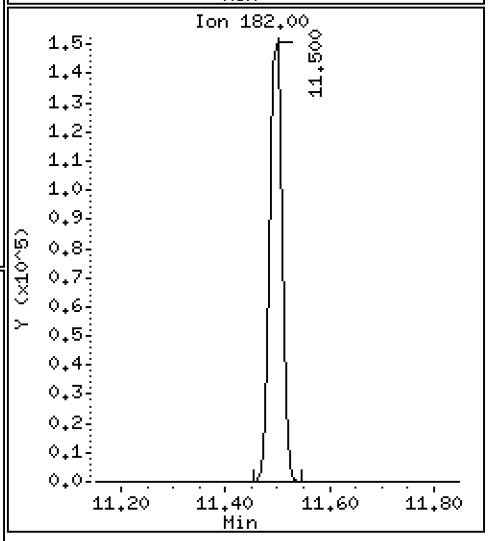
26 1,2,4-Trichlorobenzene

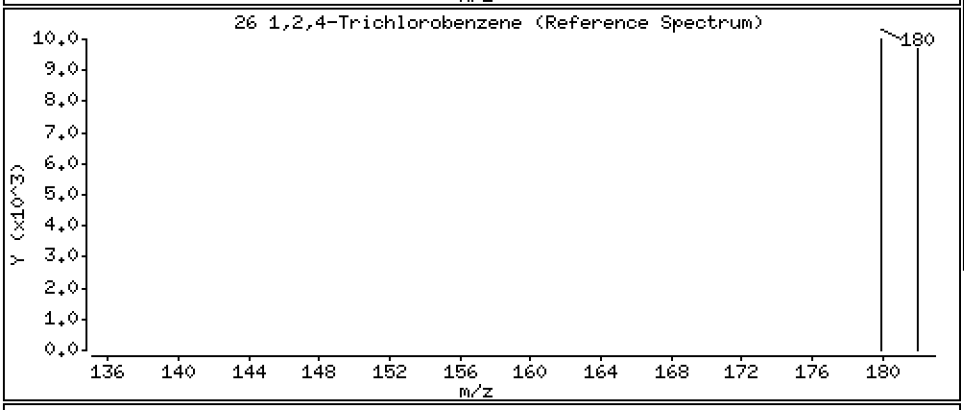
Concentration: 3.486 ug/L

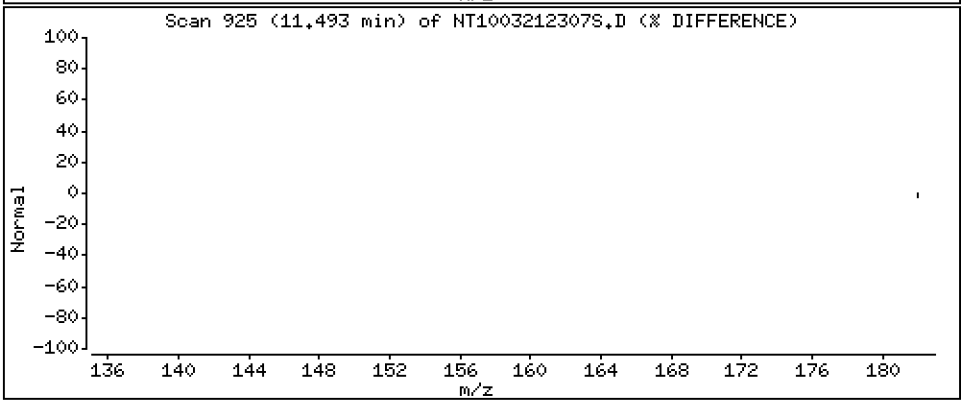












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212307S.D

Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS2

Volume Injected (uL): 1.0

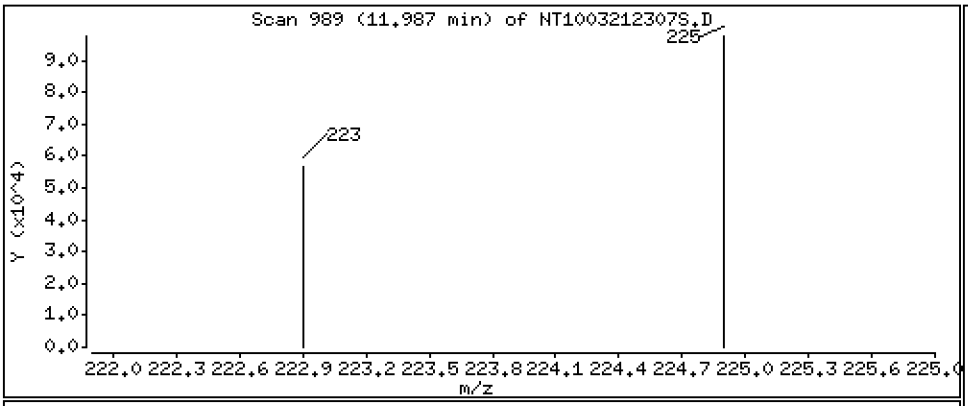
Operator: JGR

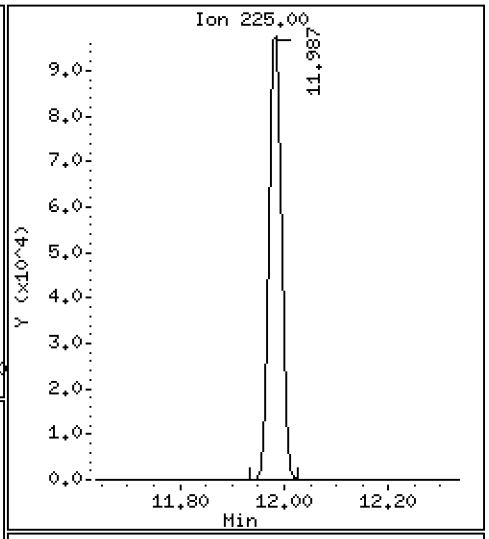
Column phase: ZB-5msi

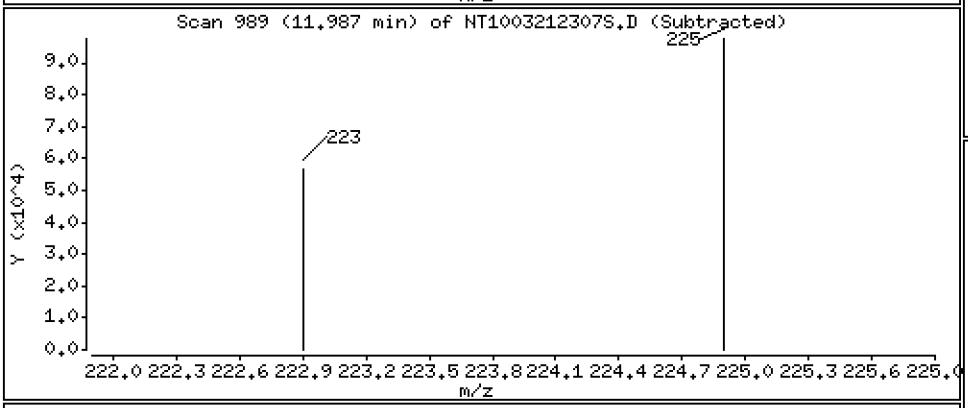
Column diameter: 0.25

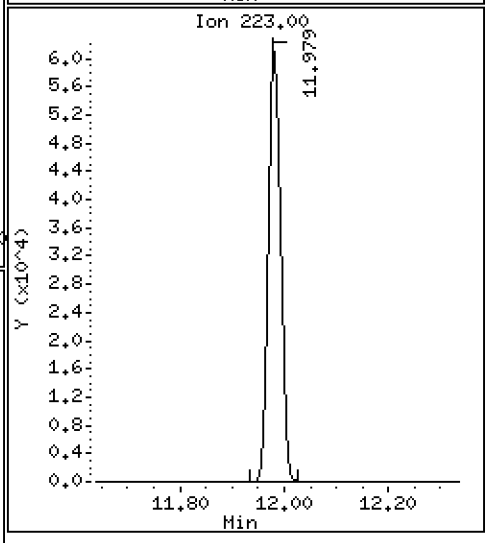
30 Hexachlorobutadiene

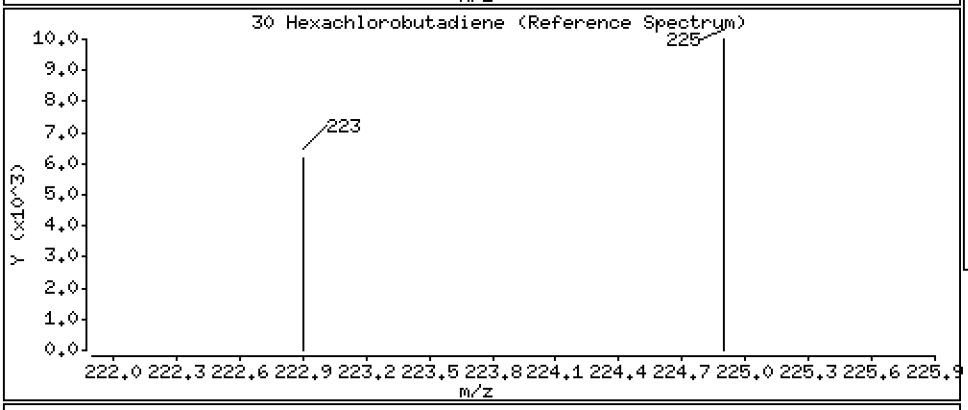
Concentration: 3.693 ug/L

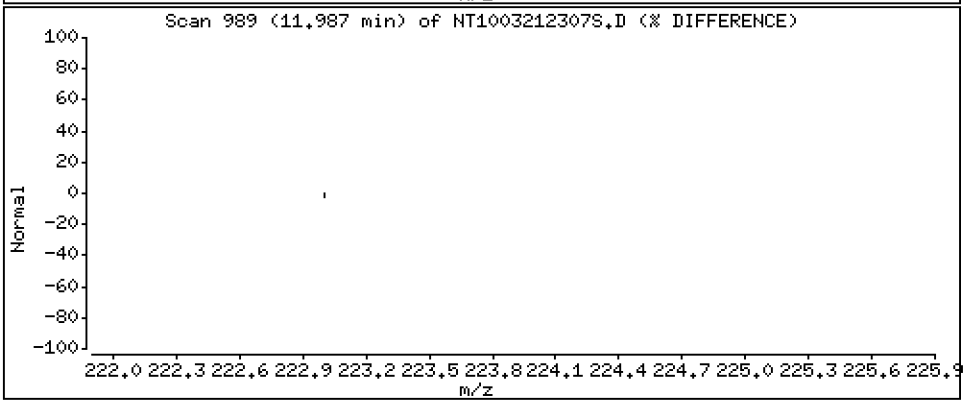












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212307S.D

Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS2

Volume Injected (uL): 1.0

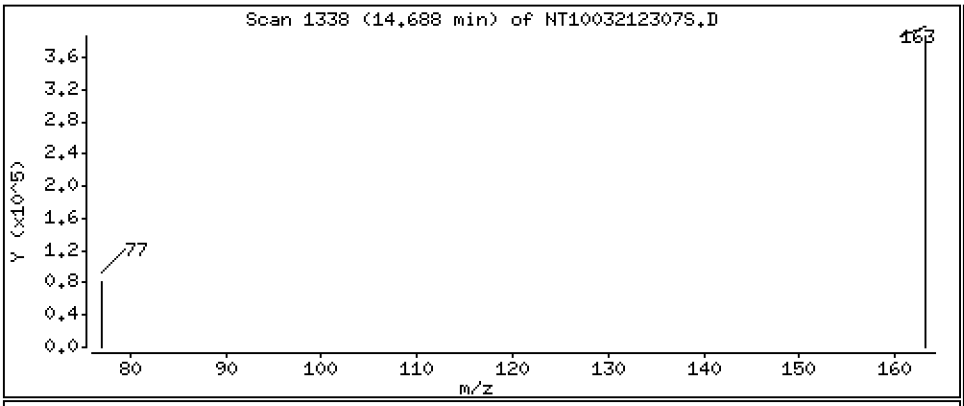
Operator: JGR

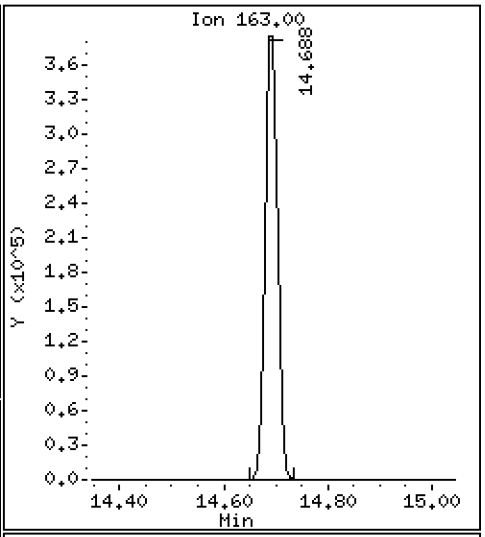
Column phase: ZB-5msi

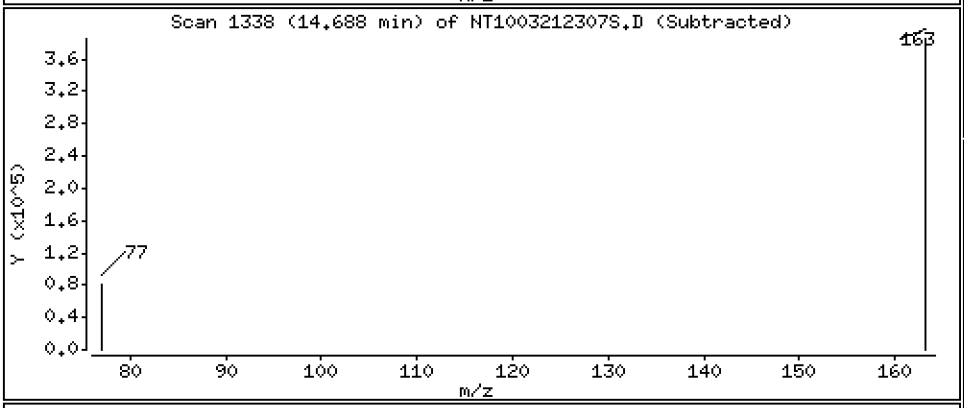
Column diameter: 0.25

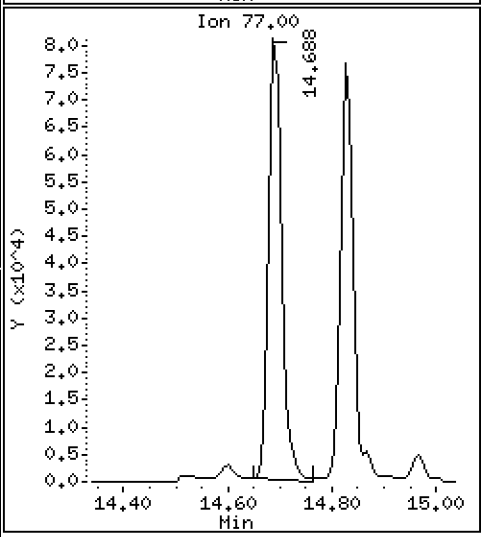
39 Dimethylphthalate

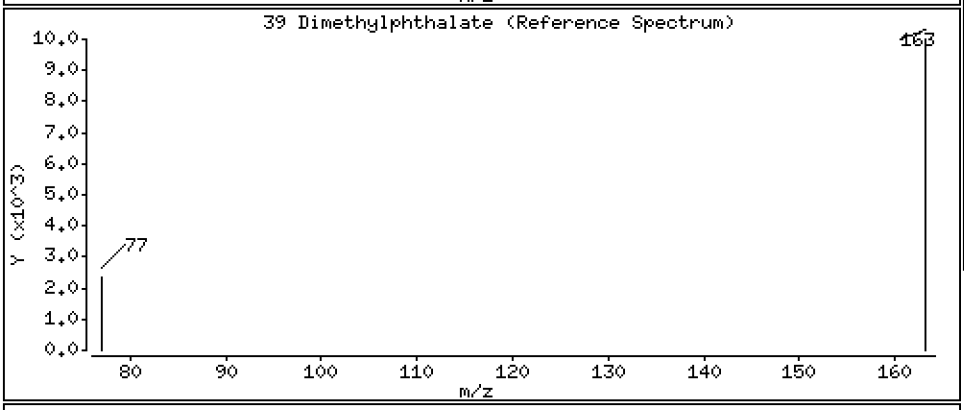
Concentration: 4.722 ug/L

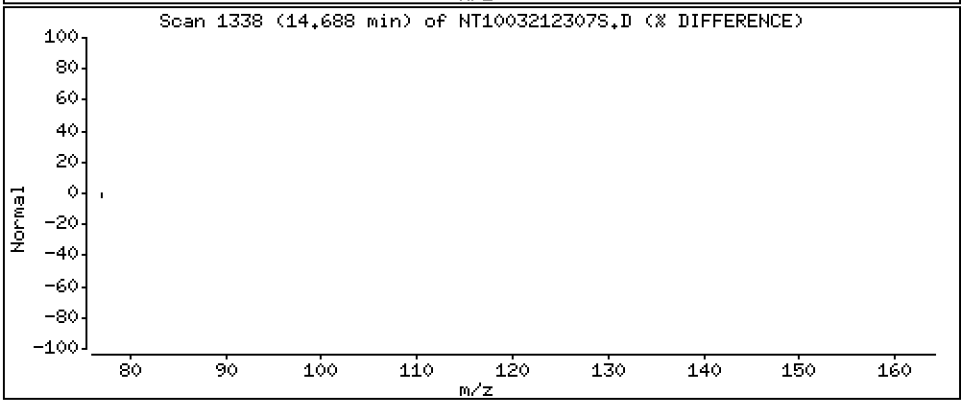












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212307S.D

Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS2

Volume Injected (uL): 1.0

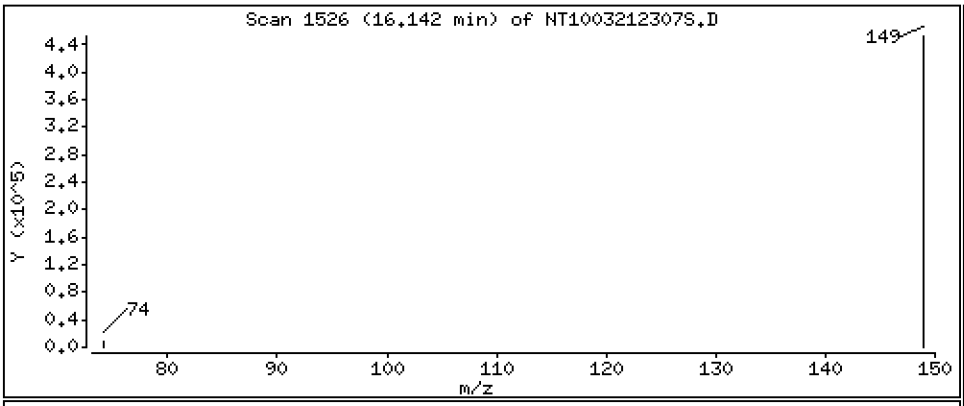
Operator: JGR

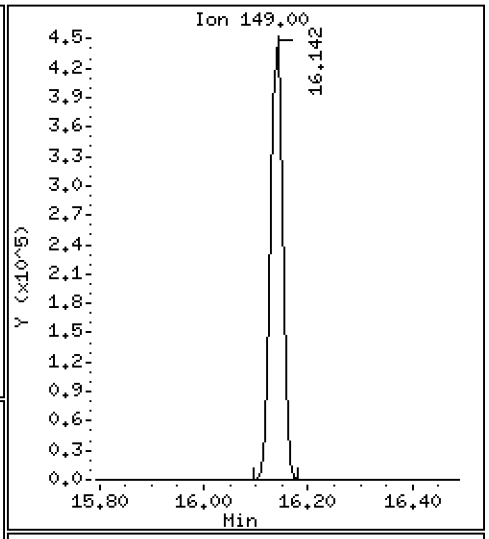
Column phase: ZB-5msi

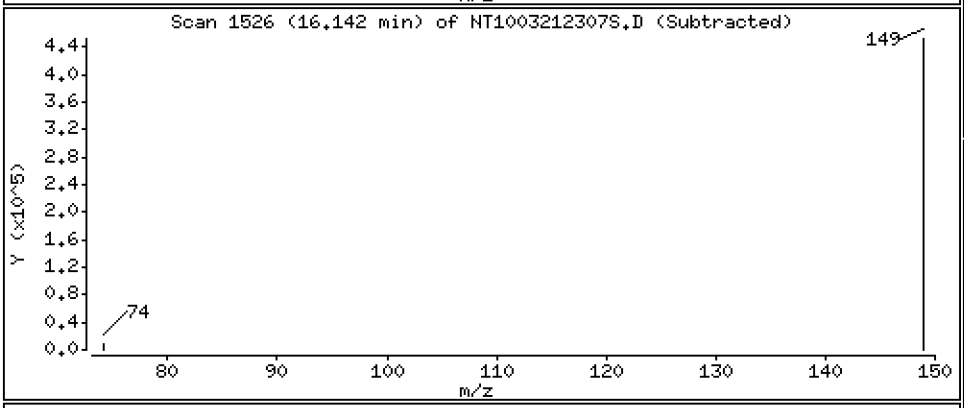
Column diameter: 0.25

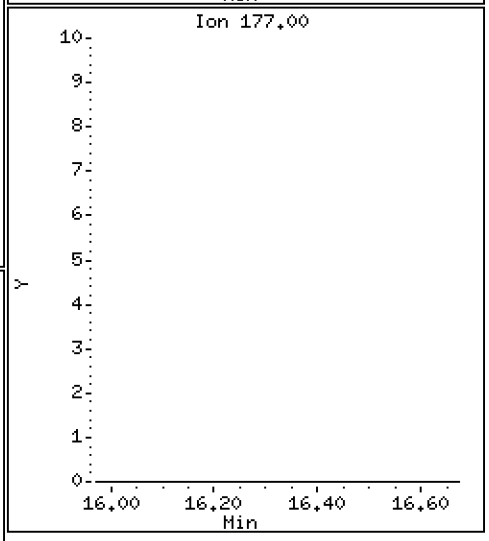
50 Diethylphthalate

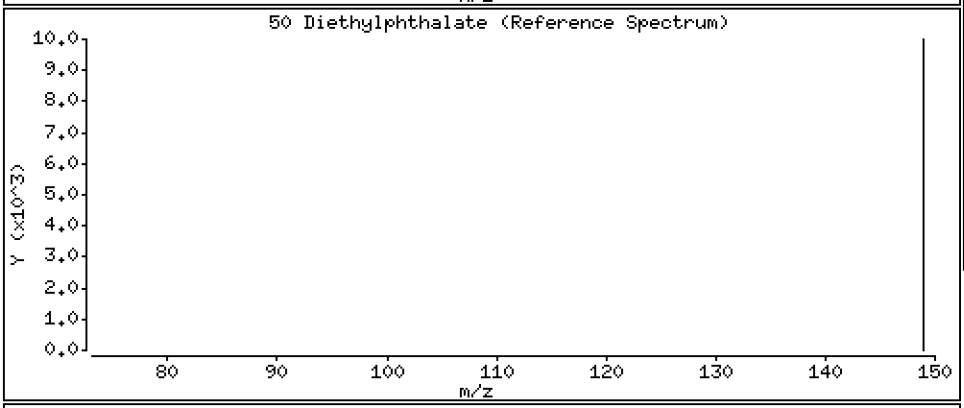
Concentration: 5.126 ug/L

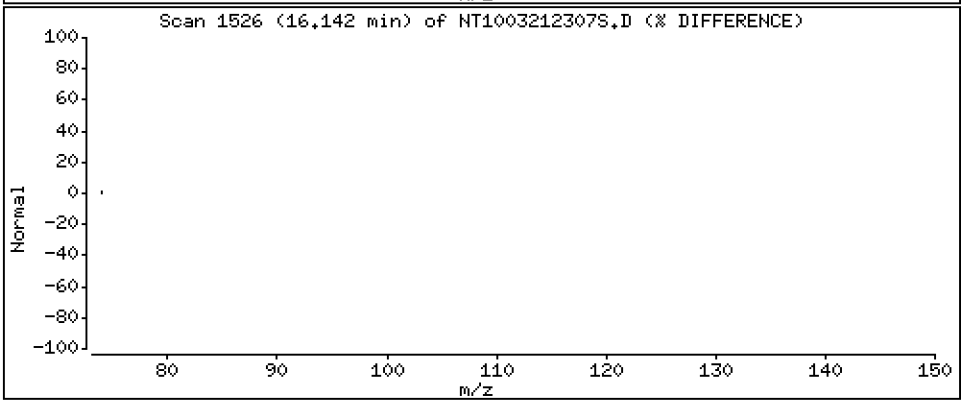












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212307S.D

Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS2

Volume Injected (uL): 1.0

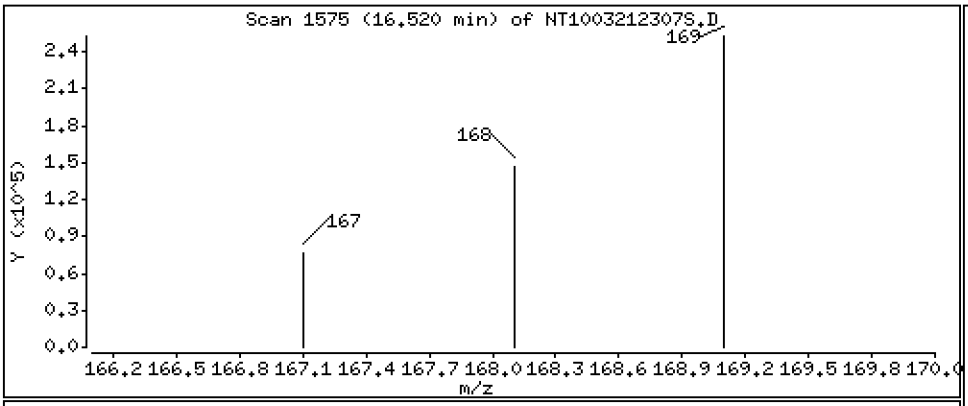
Operator: JGR

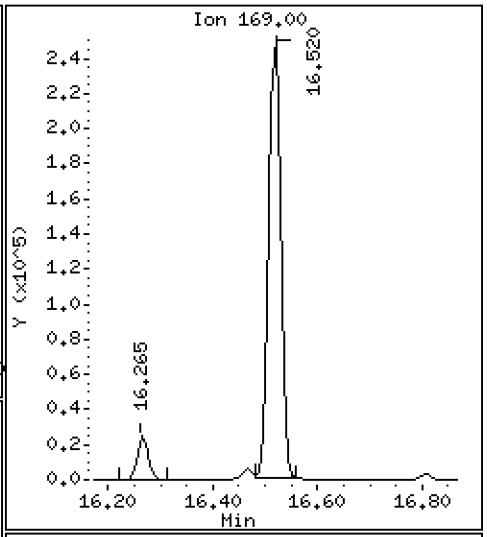
Column phase: ZB-5msi

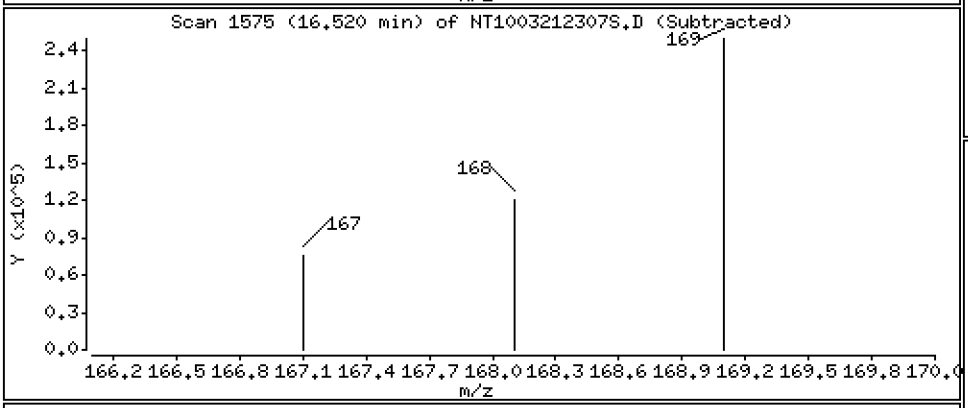
Column diameter: 0.25

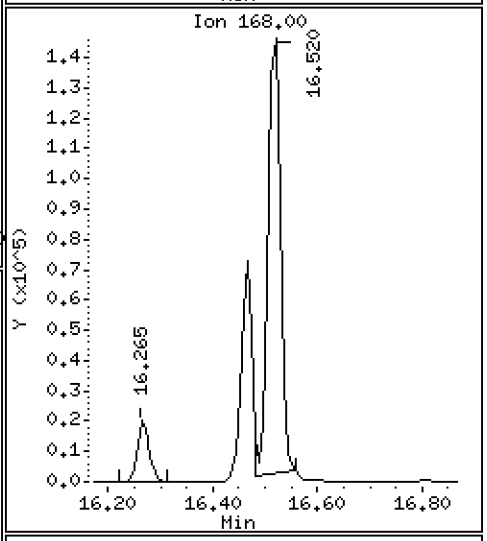
54 N-Nitrosodiphenylamine

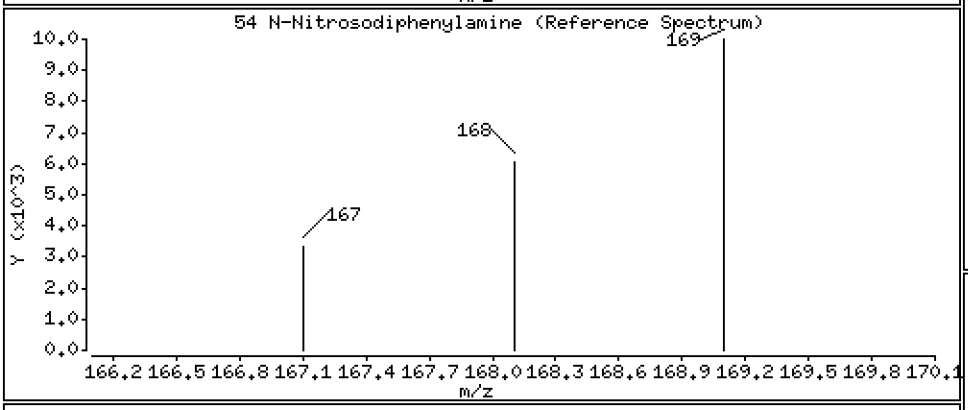
Concentration: 3.558 ug/L

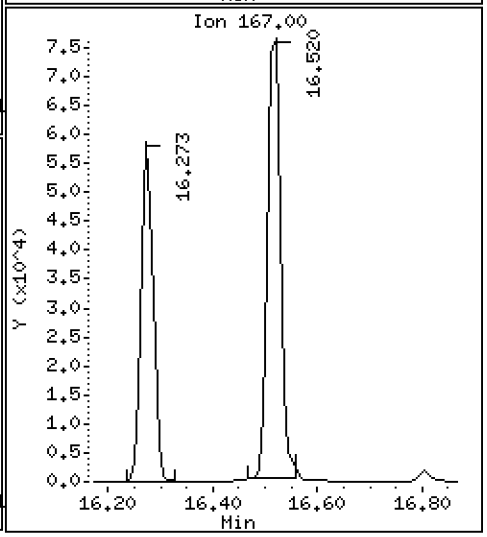


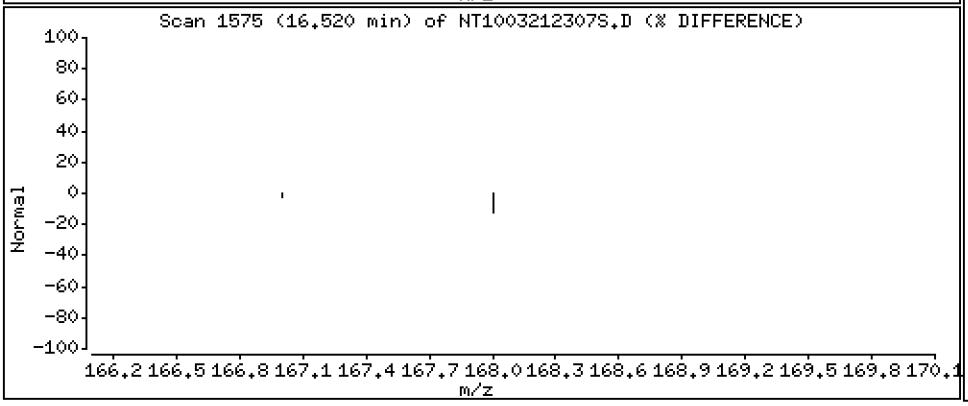












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Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS2

Volume Injected (uL): 1.0

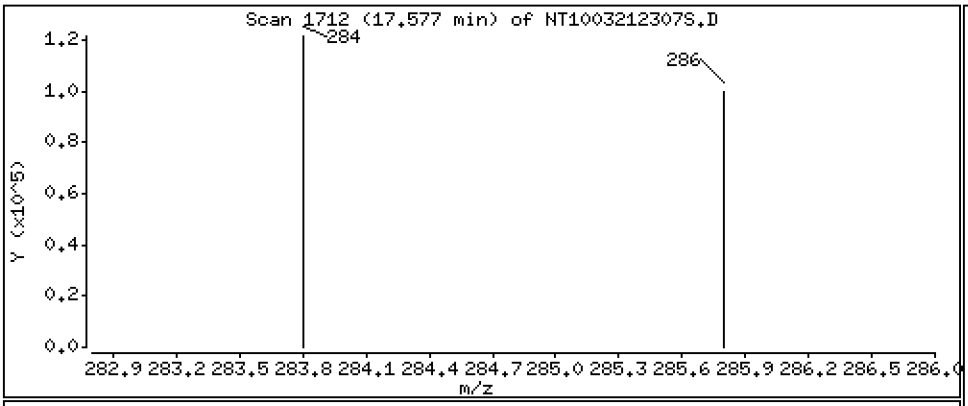
Operator: JGR

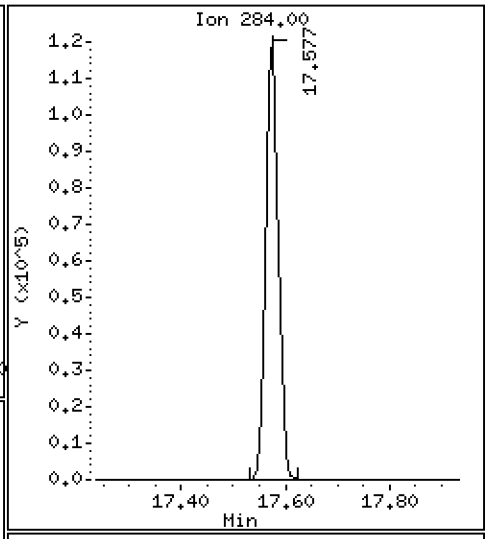
Column phase: ZB-5msi

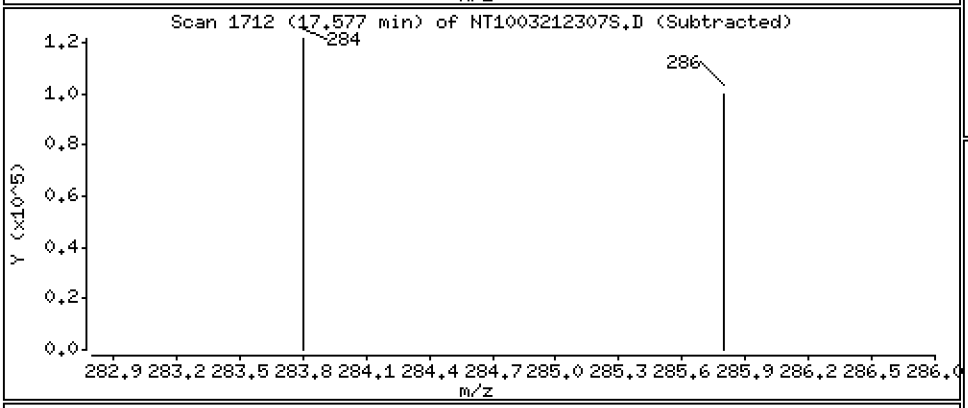
Column diameter: 0.25

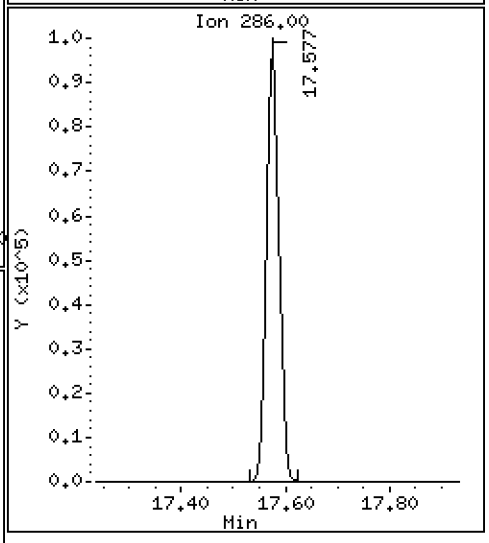
57 Hexachlorobenzene

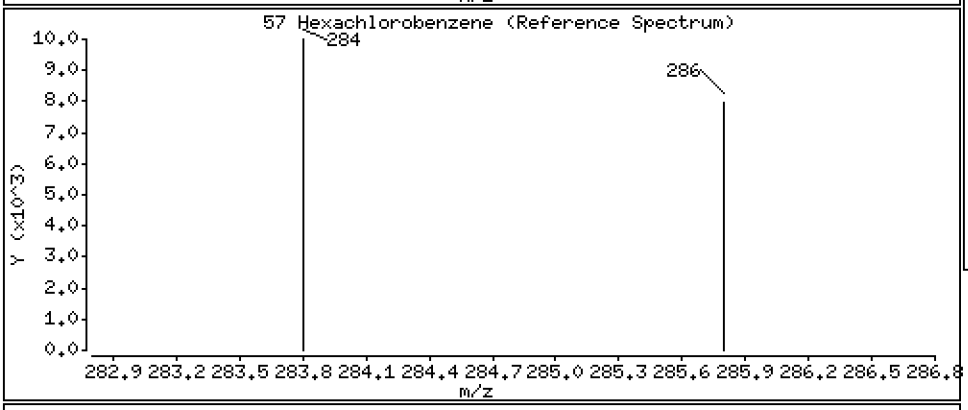
Concentration: 4.168 ug/L

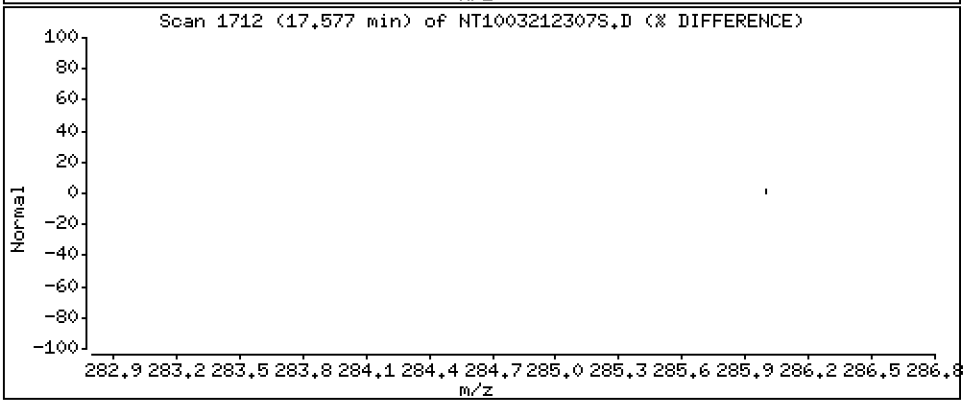












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212307S.D

Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS2

Volume Injected (uL): 1.0

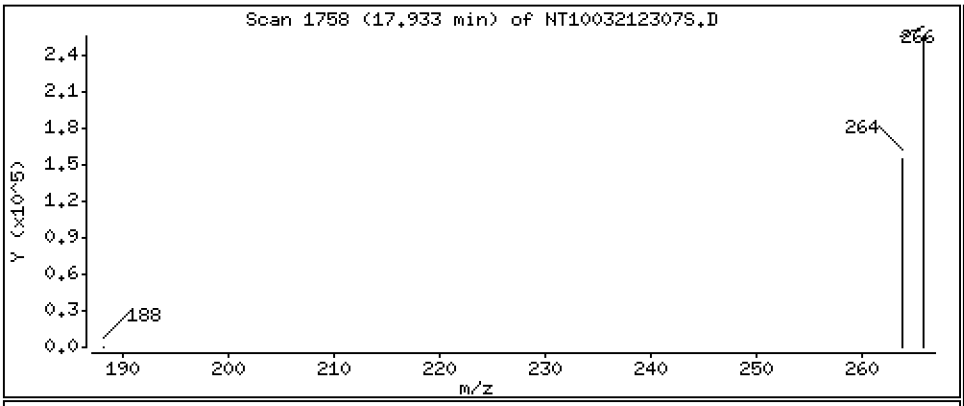
Operator: JGR

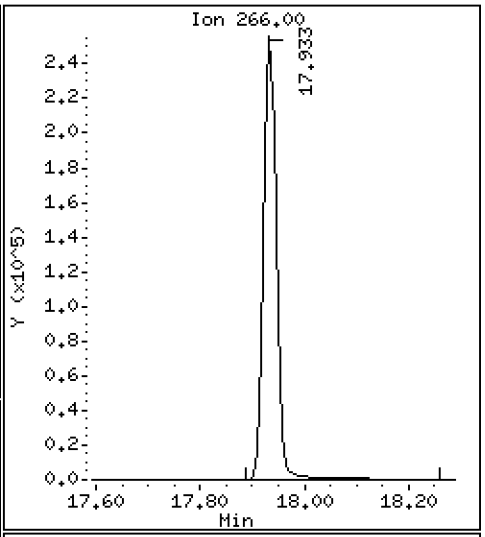
Column phase: ZB-5msi

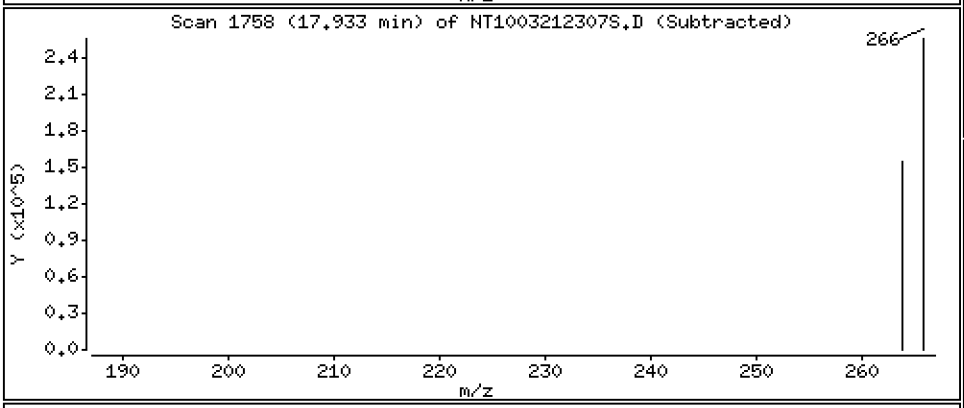
Column diameter: 0.25

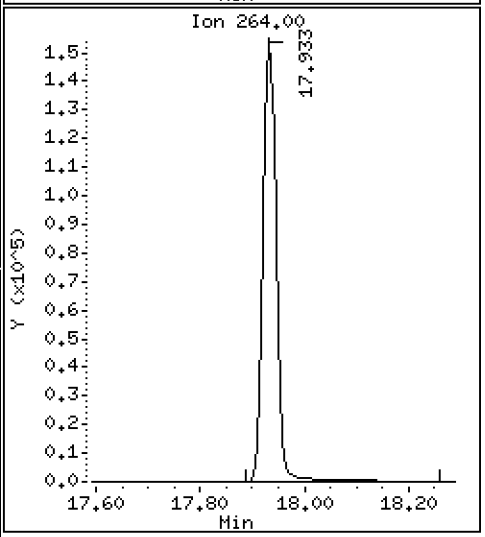
58 Pentachlorophenol

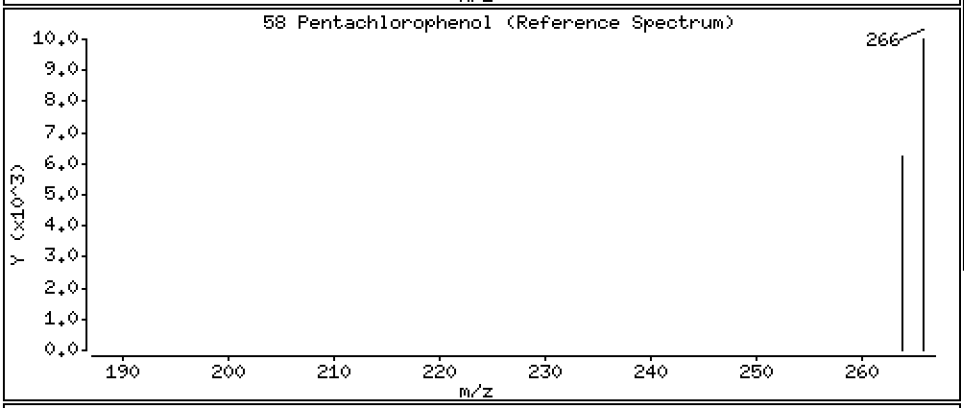
Concentration: 14.49 ug/L

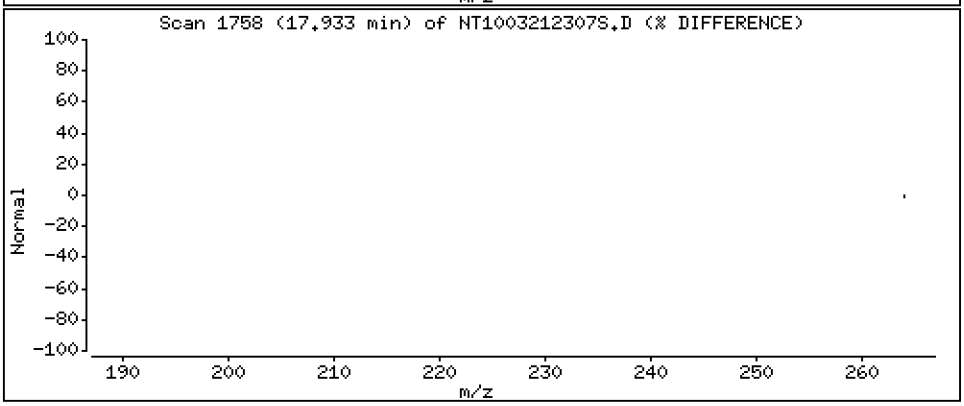












Date : 21-MAR-2023 21:00

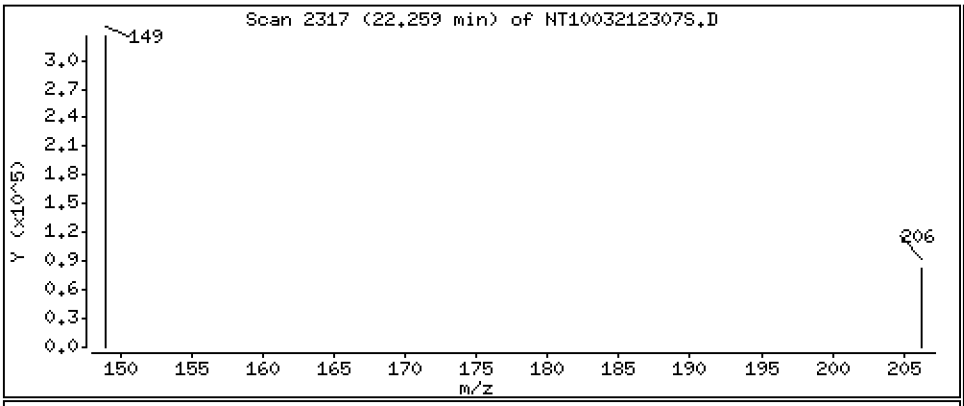
Client ID: Instrument: nt10.i

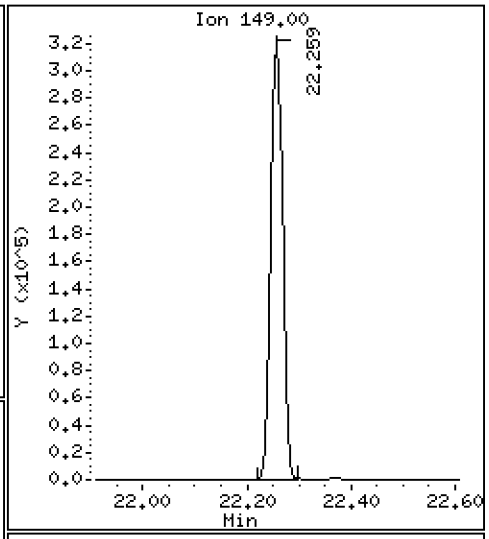
Sample Info: BLC0109-BS2

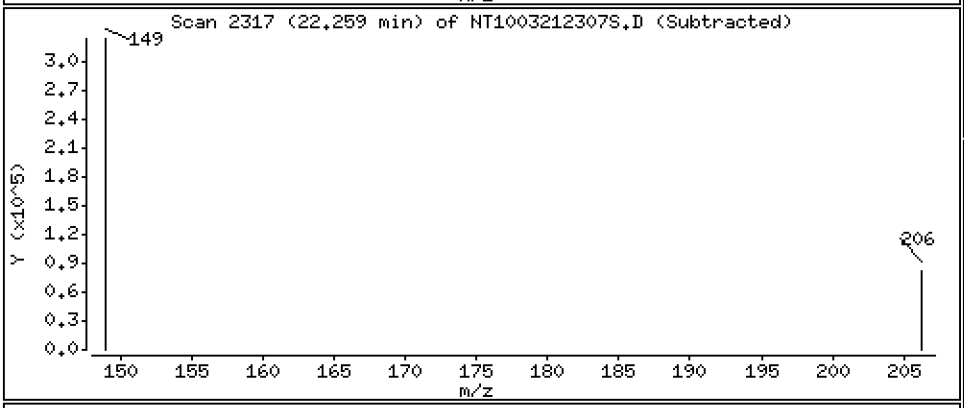
Volume Injected (uL): 1.0 Operator: JGR

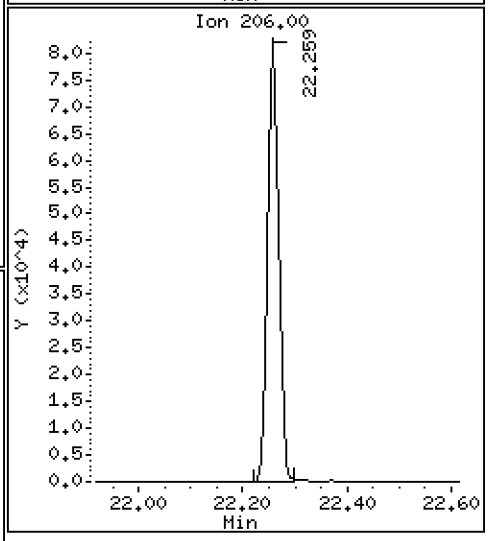
Column phase: ZB-5msi Column diameter: 0.25

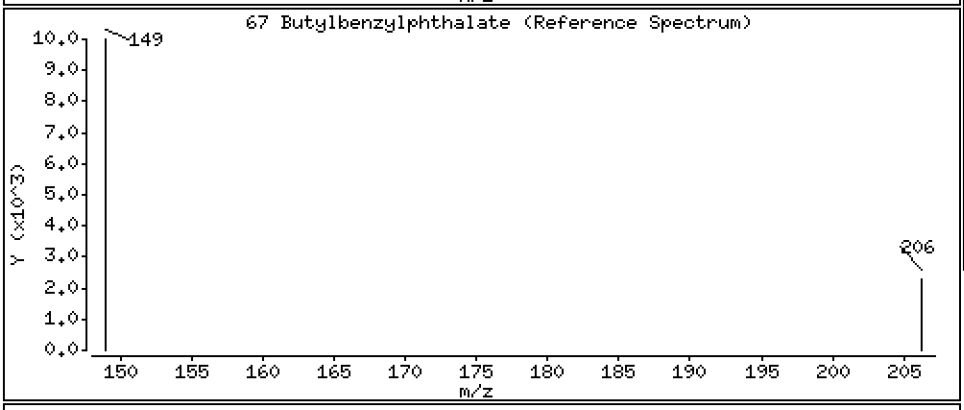
67 Butylbenzylphthalate Concentration: 5.089 ug/L

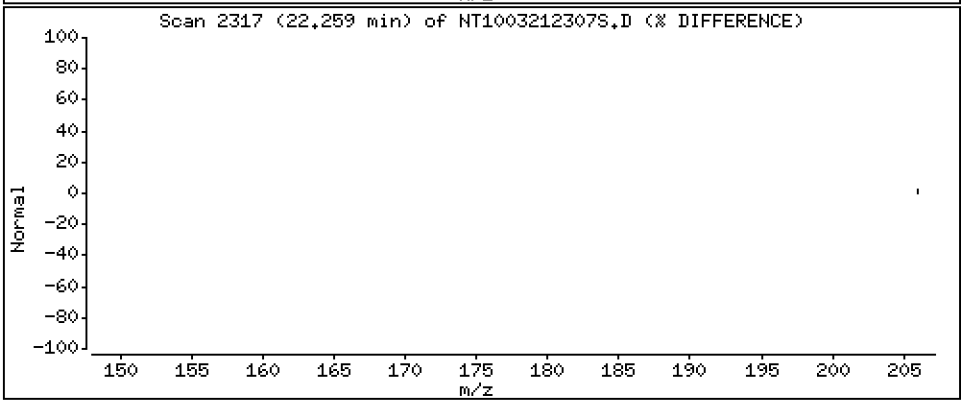












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212307S.D

Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS2

Volume Injected (uL): 1.0

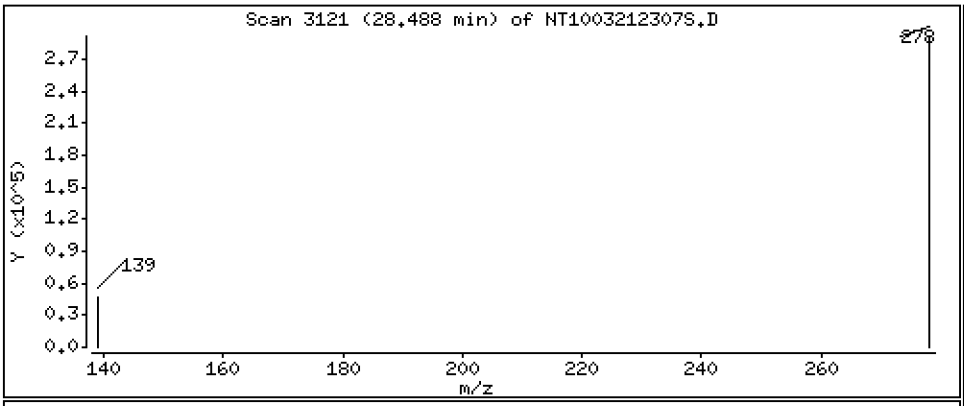
Operator: JGR

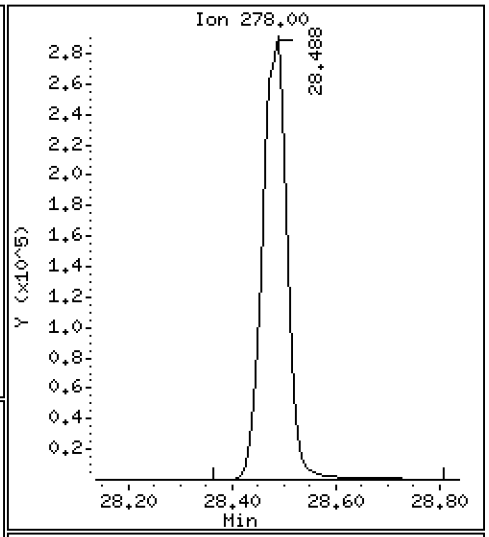
Column phase: ZB-5msi

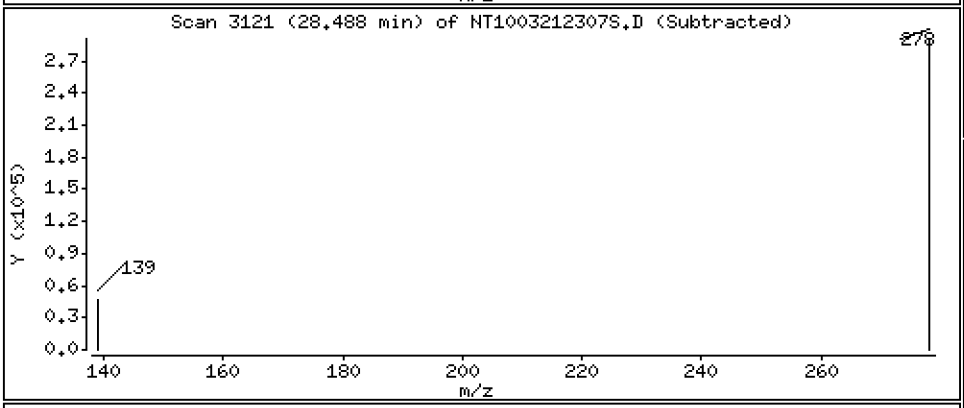
Column diameter: 0.25

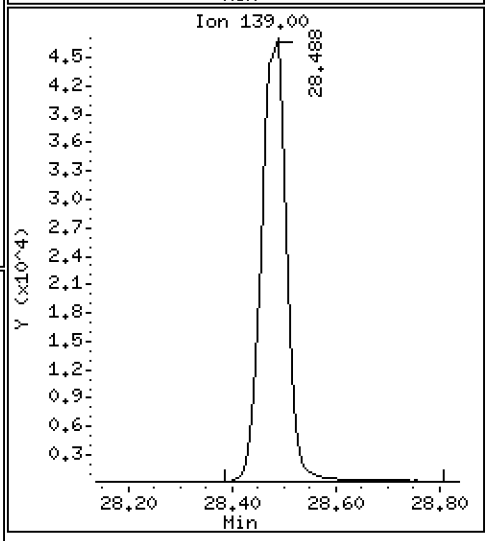
79 Dibenzo(a,h)anthracene

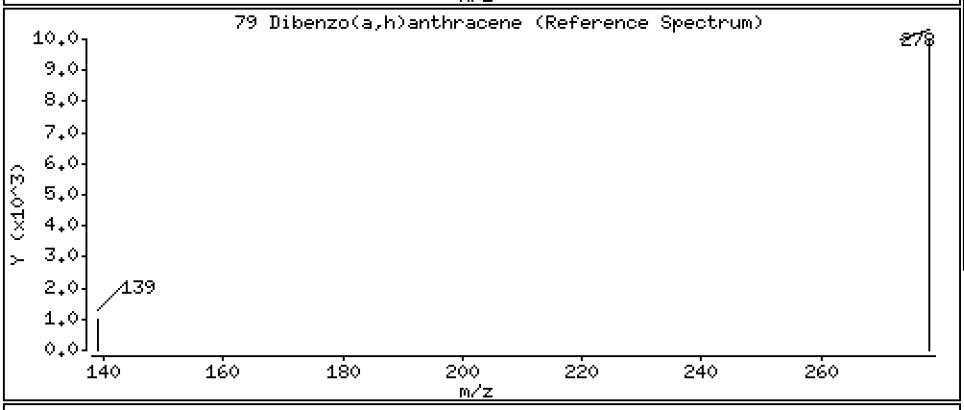
Concentration: 4.053 ug/L

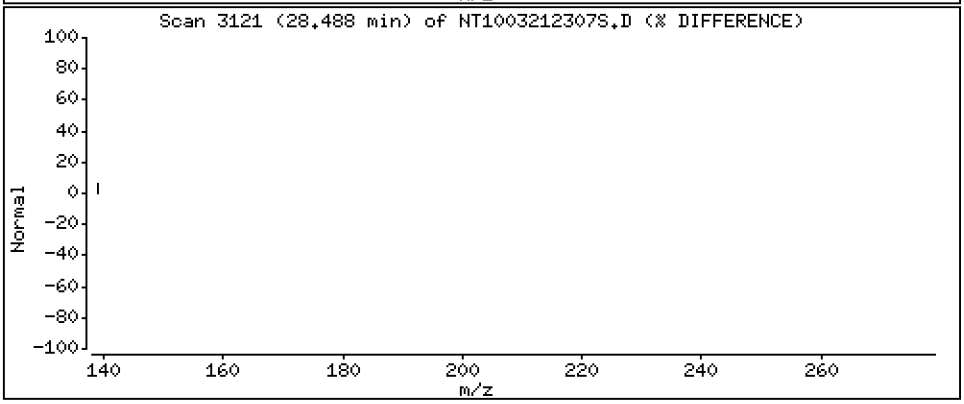












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212307S.D

Date : 21-MAR-2023 21:00

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BS2

Volume Injected (uL): 1.0

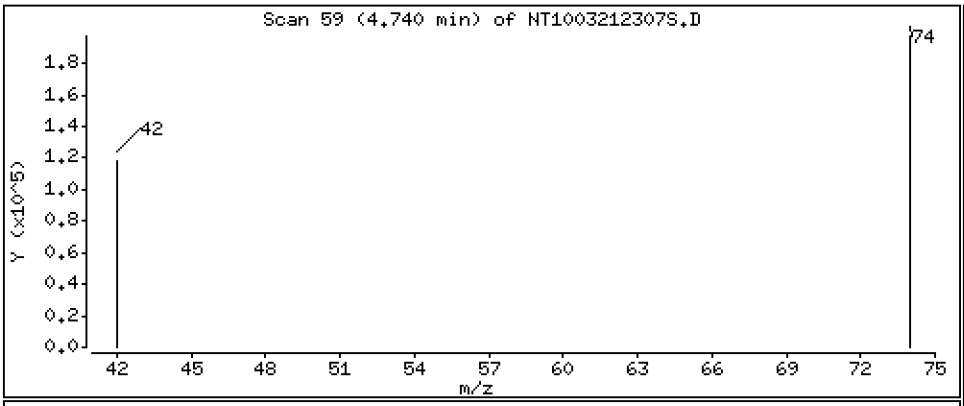
Operator: JGR

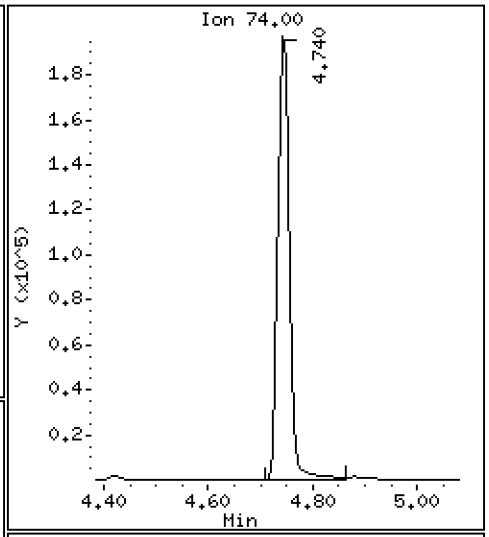
Column phase: ZB-5msi

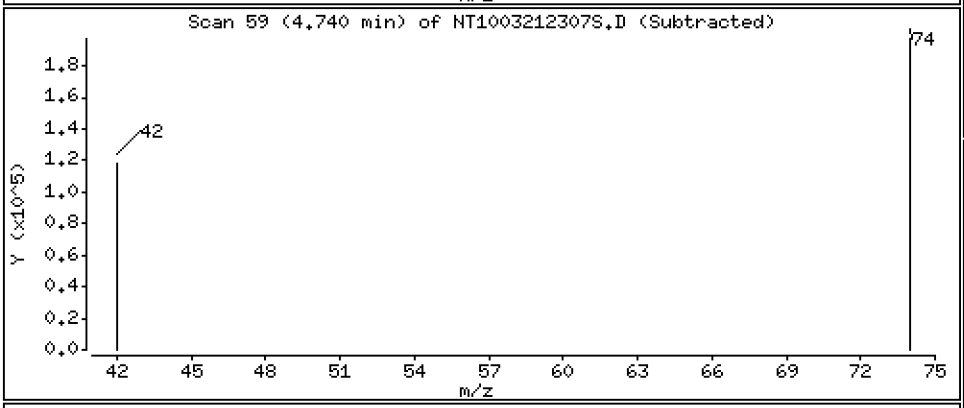
Column diameter: 0.25

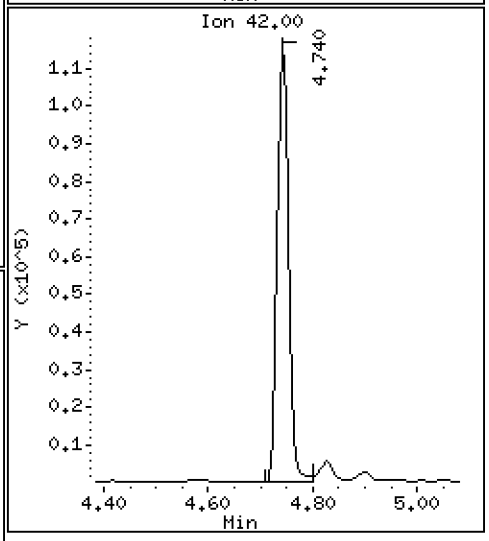
90 N-Nitrosodimethylamine

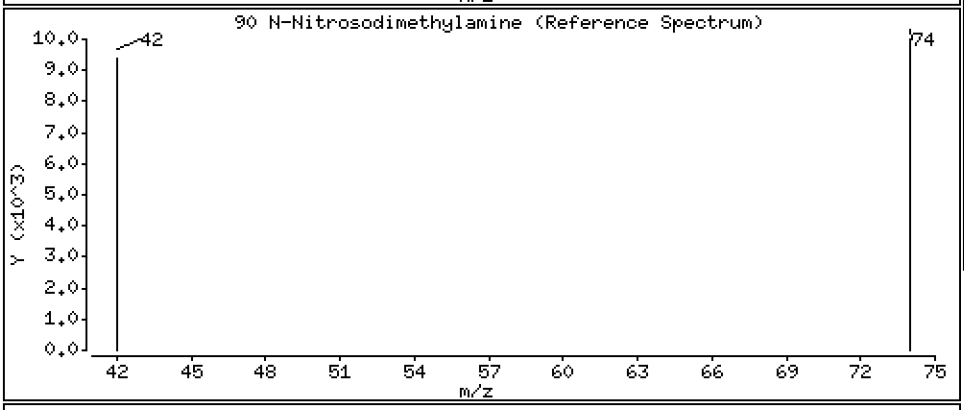
Concentration: 6.811 ug/L

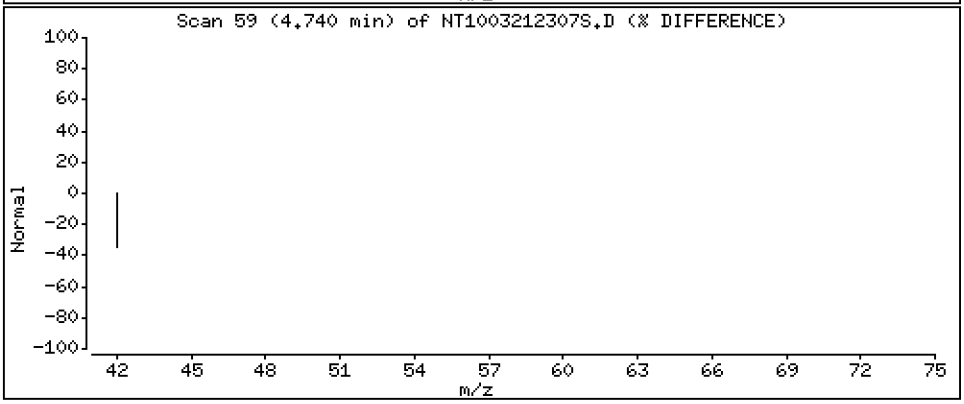












ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212307S.D
Lab Smp Id: BLC0109-BS2
Inj Date : 21-MAR-2023 21:00 MS Autotune Date: 16-JAN-2023 17:42
Operator : JGR Inst ID: nt10.i
Smp Info : BLC0109-BS2
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230321.b\20230321.b\SIMABN2.m
Meth Date : 29-Mar-2023 09:55 van Quant Type: ISTD
Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
$ 1	2-Fluorophenol	112	6.895	6.895	(0.757)	332160	4.95968	4.960(R)
3	Phenol	94	8.494	8.494	(0.932)	309660	3.37021	3.370
7	1,3-Dichlorobenzene	146	9.043	9.043	(0.992)	290288	3.37636	3.376
* 8	1,4-Dichlorobenzene-d4	152	9.113	9.105	(1.000)	220851	4.00000	
9	1,4-Dichlorobenzene	146	9.136	9.136	(1.003)	289486	3.48796	3.488
11	Benzyl alcohol	79	9.377	9.377	(1.029)	192185	3.60795	3.608
12	1,2-Dichlorobenzene	146	9.493	9.493	(1.042)	282812	3.46491	3.465
13	2-Methylphenol	108	9.602	9.602	(1.054)	199174	3.12844	3.128
15	4-Methylphenol	108	9.873	9.874	(1.083)	232541	3.51503	3.515
16	N-Nitroso-di-n-propylamine	70	9.936	9.936	(1.090)	160257	3.42532	3.425
22	2,4-Dimethylphenol	107	10.906	10.914	(0.941)	309344	4.48982	4.490
24	Benzoic acid	105	11.152	11.042	(0.963)	1173011	27.3777	27.38
26	1,2,4-Trichlorobenzene	180	11.492	11.500	(0.992)	241610	3.48591	3.486
* 27	Naphthalene-d8	136	11.585	11.585	(1.000)	797097	4.00000	
30	Hexachlorobutadiene	225	11.986	11.987	(1.035)	155637	3.69340	3.693
39	Dimethylphthalate	163	14.687	14.695	(0.968)	609694	4.72245	4.722
* 42	Acenaphthene-d10	162	15.175	15.183	(1.000)	409118	4.00000	
50	Diethylphthalate	149	16.141	16.141	(1.064)	685636	5.12634	5.126
54	N-Nitrosodiphenylamine	169	16.519	16.520	(0.908)	378885	3.55833	3.558
57	Hexachlorobenzene	284	17.577	17.584	(0.966)	198681	4.16820	4.168

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	58 Pentachlorophenol	266	17.933	17.941	(0.986)	419104	14.4874	14.49
*	59 Phenanthrene-d10	188	18.196	18.196	(1.000)	793620	4.00000	
$	66 Terphenyl-d14	244	21.329	21.337	(0.918)	435574	3.94346	3.943(R)
	67 Butylbenzylphthalate	149	22.258	22.259	(0.958)	481616	5.08939	5.089
*	69 Chrysene-d12	240	23.226	23.234	(1.000)	677903	4.00000	
*	77 Perylene-d12	264	25.835	25.836	(1.000)	731429	4.00000	
	79 Dibenzo(a,h)anthracene	278	28.487	28.487	(1.103)	950693	4.05328	4.053
	90 N-Nitrosodimethylamine	74	4.740	4.732	(0.520)	289296	6.81080	6.811

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1003212307S.D
Lab Smp Id: BLC0109-BS2
Analysis Type: SV
Quant Type: ISTD
Operator: JGR
Method File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\SIMABN2.m
Misc Info:

Calibration Date: 21-MAR-2023
Calibration Time: 18:25
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	162628	81314	325256	220851	35.80
27 Naphthalene-d8	580280	290140	1160560	797097	37.36
42 Acenaphthene-d10	297255	148628	594510	409118	37.63
59 Phenanthrene-d10	561093	280547	1122186	793620	41.44
69 Chrysene-d12	498827	249414	997654	677903	35.90
77 Perylene-d12	558480	279240	1116960	731429	30.97

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.11	8.61	9.61	9.11	0.08
27 Naphthalene-d8	11.59	11.09	12.09	11.59	-0.00
42 Acenaphthene-d10	15.18	14.68	15.68	15.18	-0.05
59 Phenanthrene-d10	18.20	17.70	18.70	18.20	-0.00
69 Chrysene-d12	23.23	22.73	23.73	23.23	-0.03
77 Perylene-d12	25.84	25.34	26.34	25.84	-0.00

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

REVIEW SUMMARY FOR FILE - NT1003212307S.D

Lab ID: BLC0109-BS2
nt10.i, 20230321.b\20230321.b\SIMABN2.m,   21-MAR-2023 21:00

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.963	0.953	0.0095	Benzoic acid

RRT check based on Ccal File: 20230321.b/NT1003212303S.D

On Column LOD for nt10.i, 20230321.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

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

Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT10032123085.D

Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

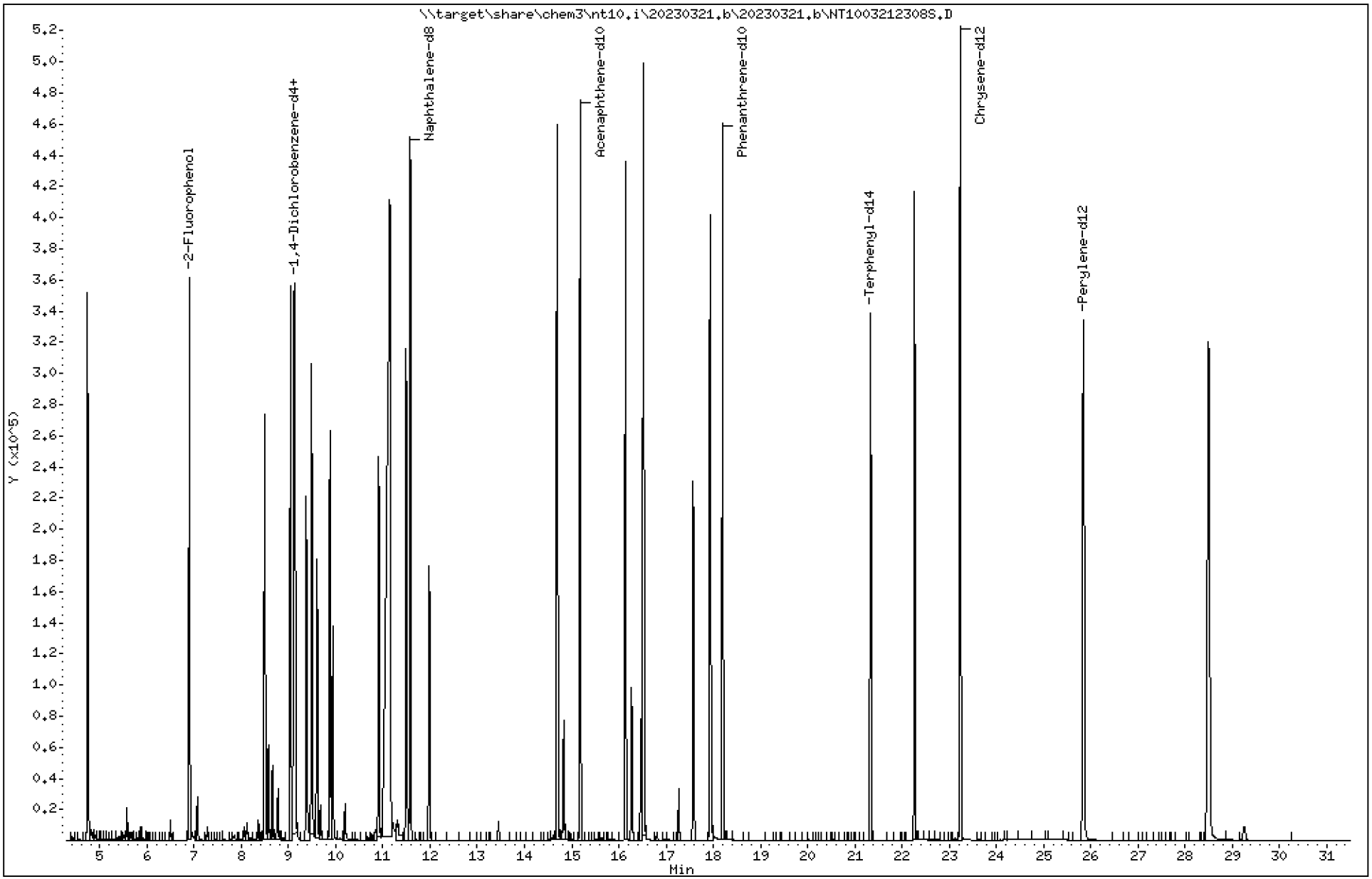
Sample Info: BLC0109-BSD2

Volume Injected (uL): 1.0

Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25



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Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD2

Volume Injected (uL): 1.0

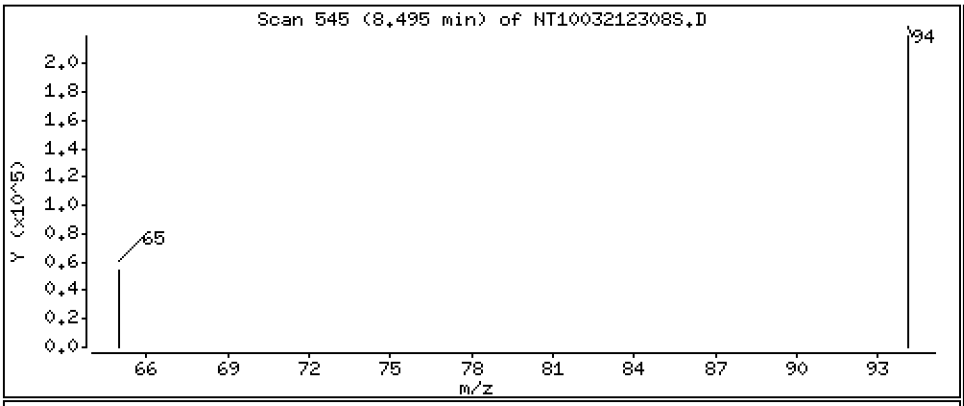
Operator: JGR

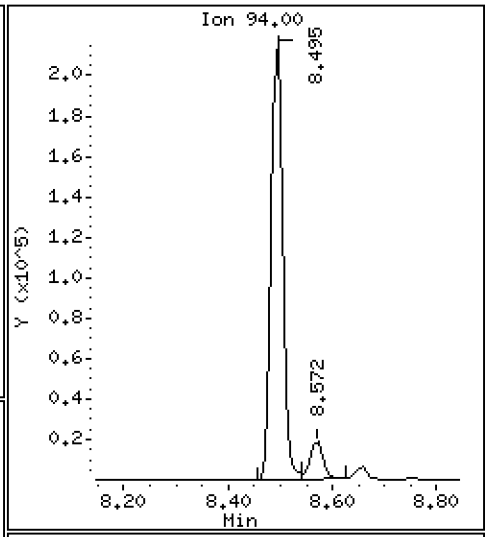
Column phase: ZB-5msi

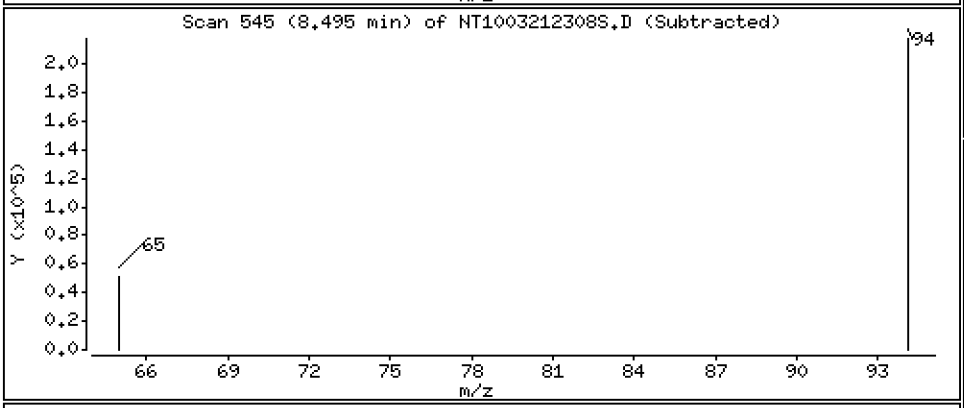
Column diameter: 0.25

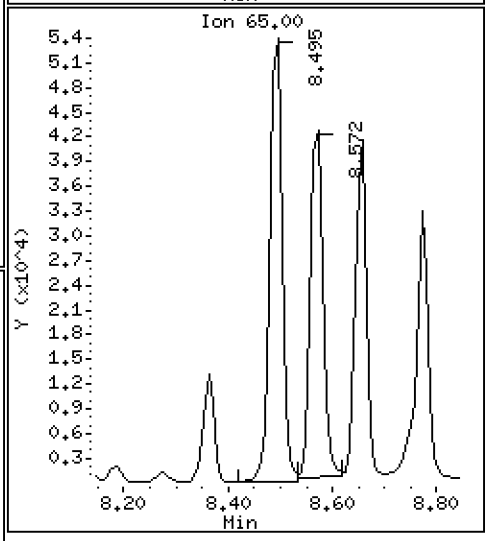
3 Phenol

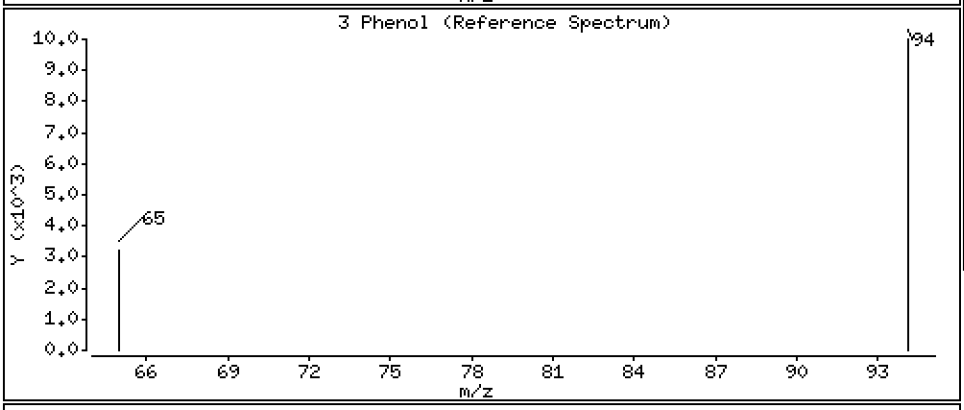
Concentration: 3.756 ug/L

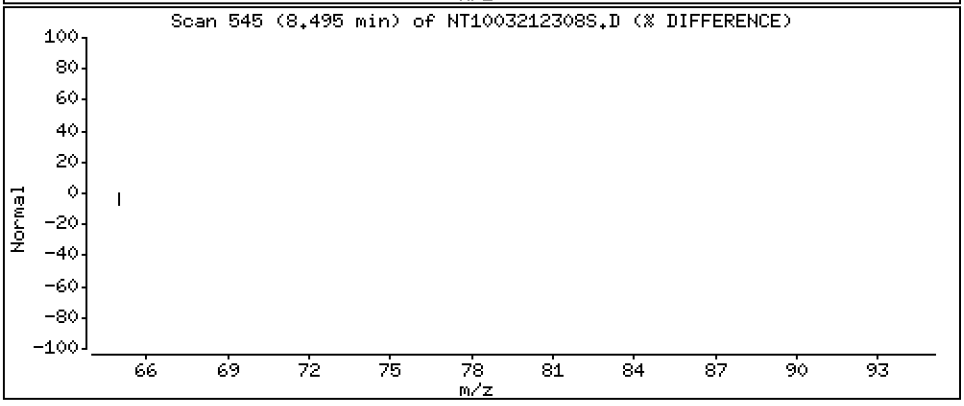












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212308S.D

Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD2

Volume Injected (uL): 1.0

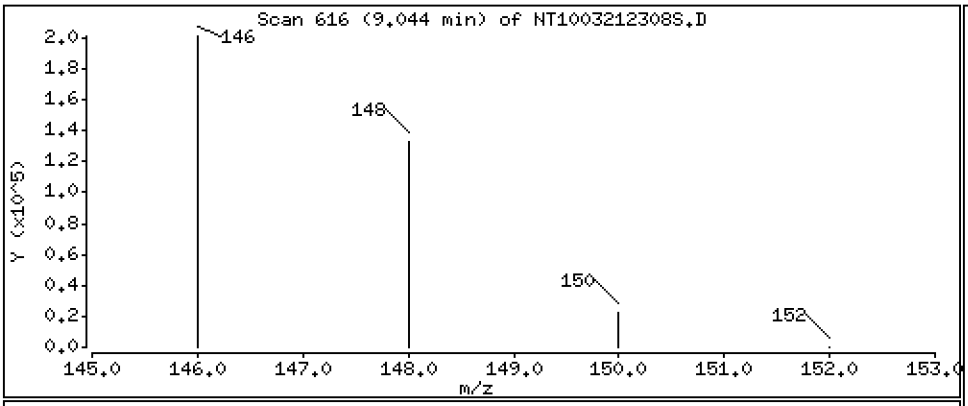
Operator: JGR

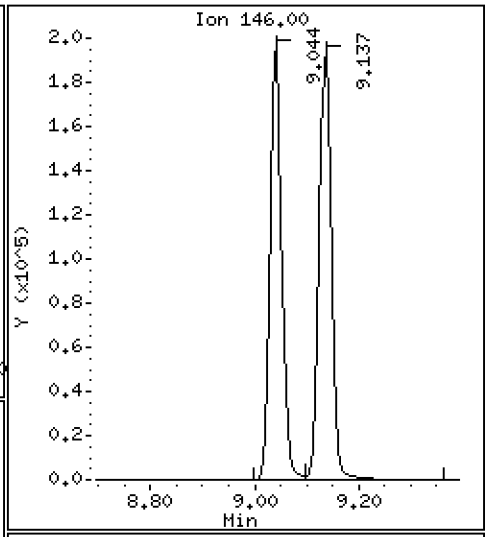
Column phase: ZB-5msi

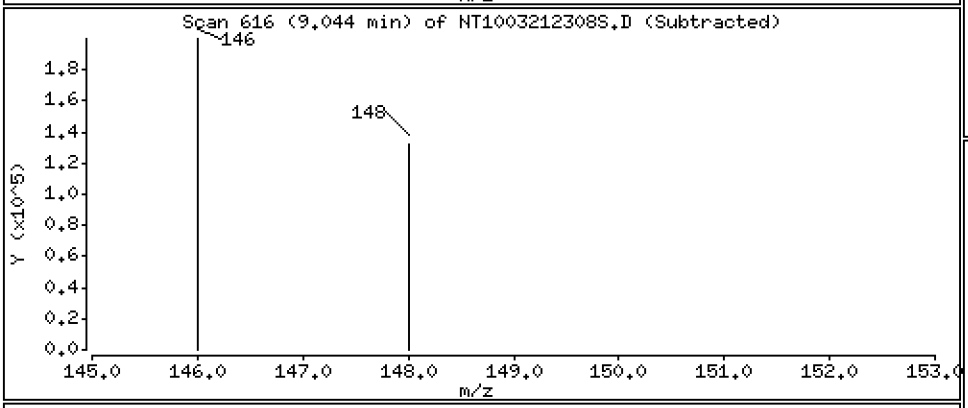
Column diameter: 0.25

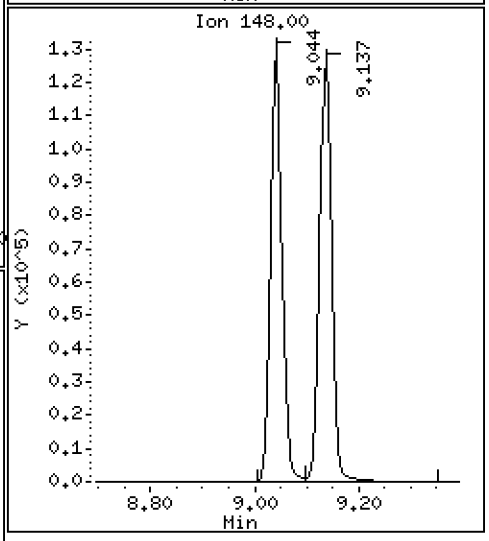
7 1,3-Dichlorobenzene

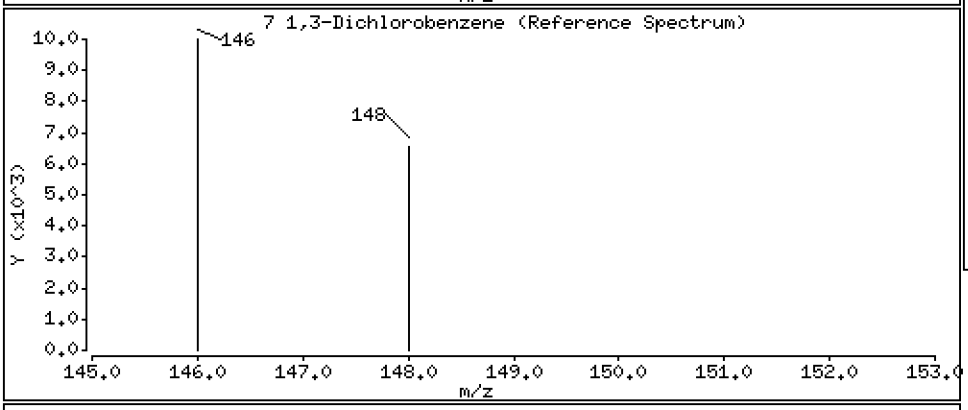
Concentration: 3.875 ug/L

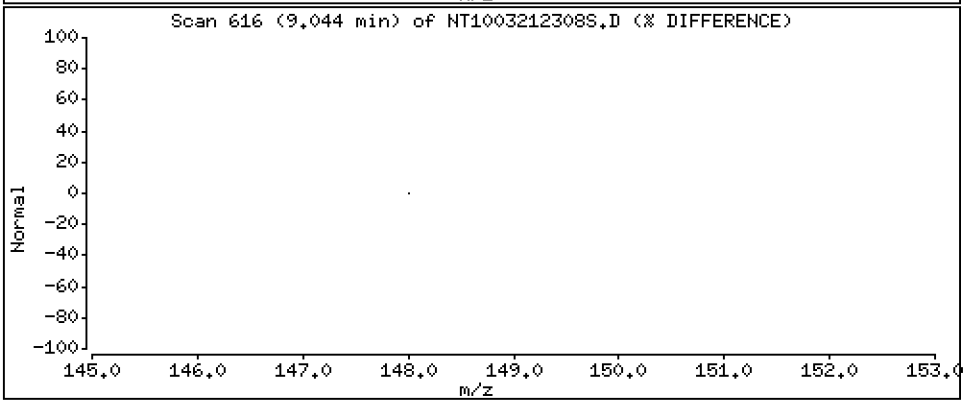












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212308S.D

Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD2

Volume Injected (uL): 1.0

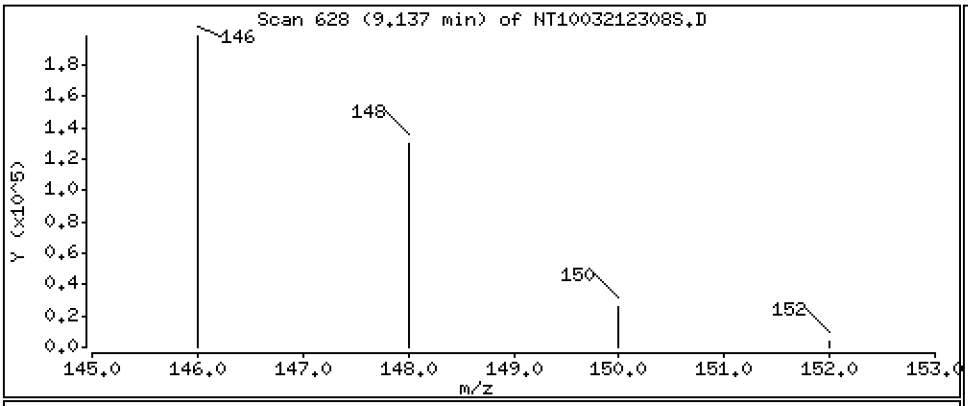
Operator: JGR

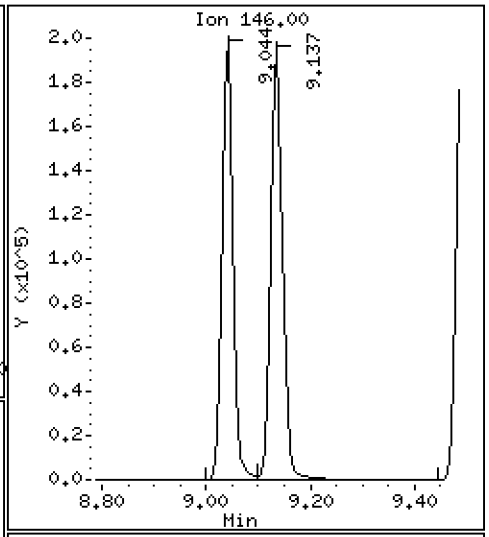
Column phase: ZB-5msi

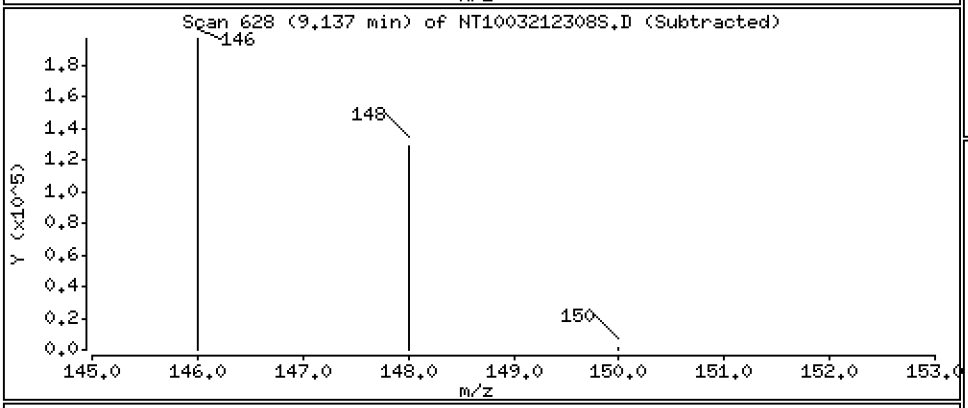
Column diameter: 0.25

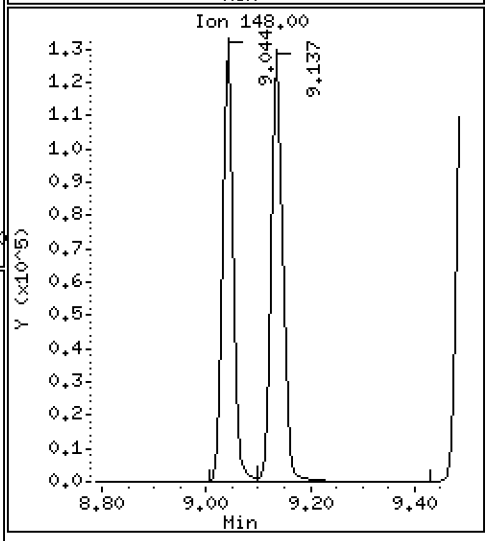
9 1,4-Dichlorobenzene

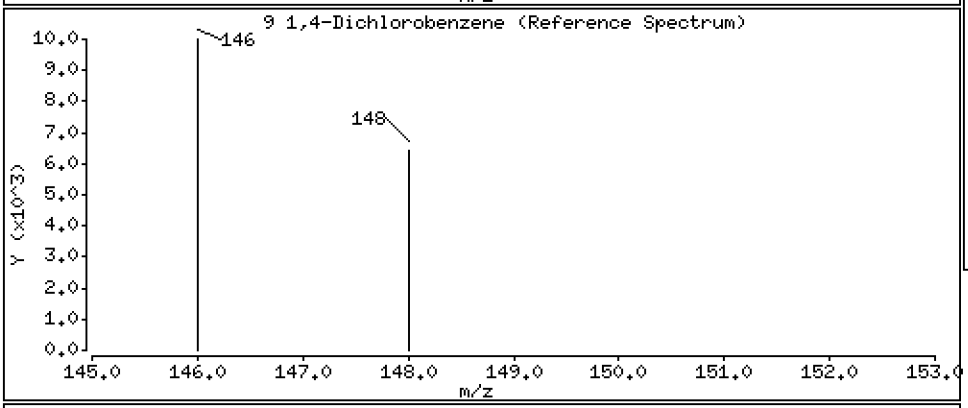
Concentration: 4.005 ug/L

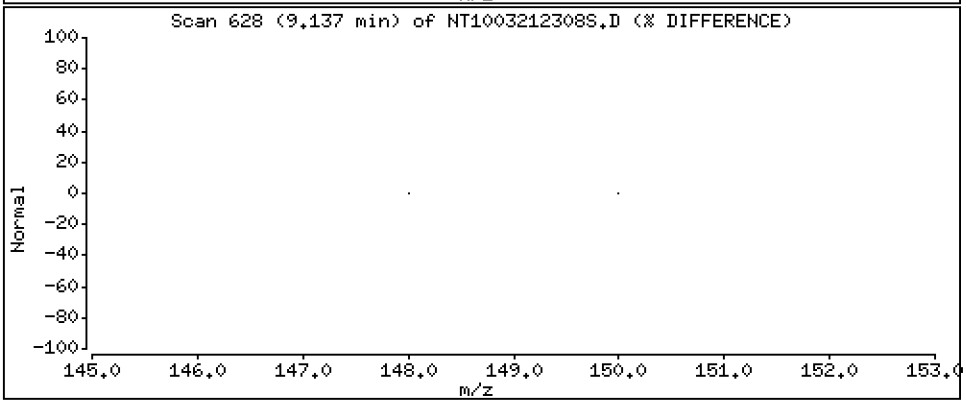












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212308S.D

Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD2

Volume Injected (uL): 1.0

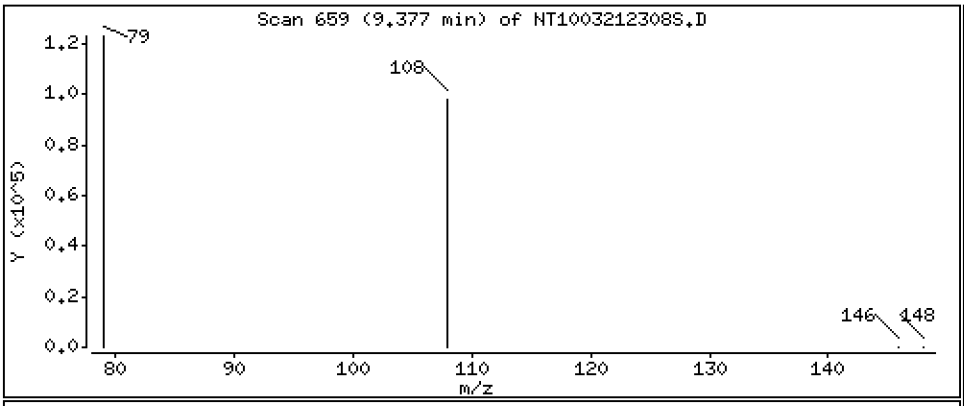
Operator: JGR

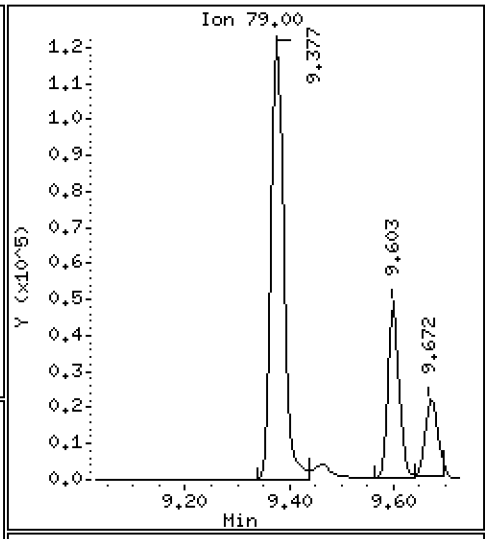
Column phase: ZB-5msi

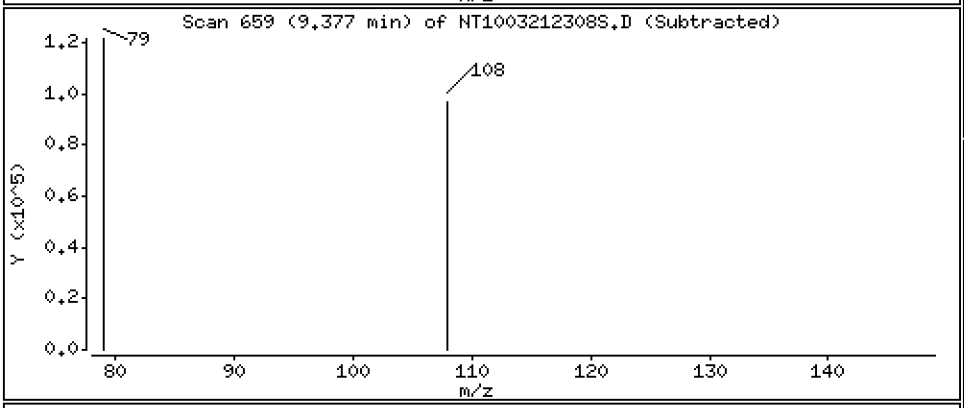
Column diameter: 0.25

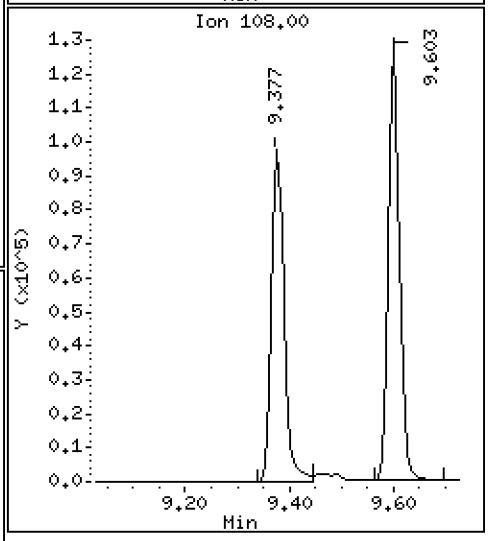
11 Benzyl alcohol

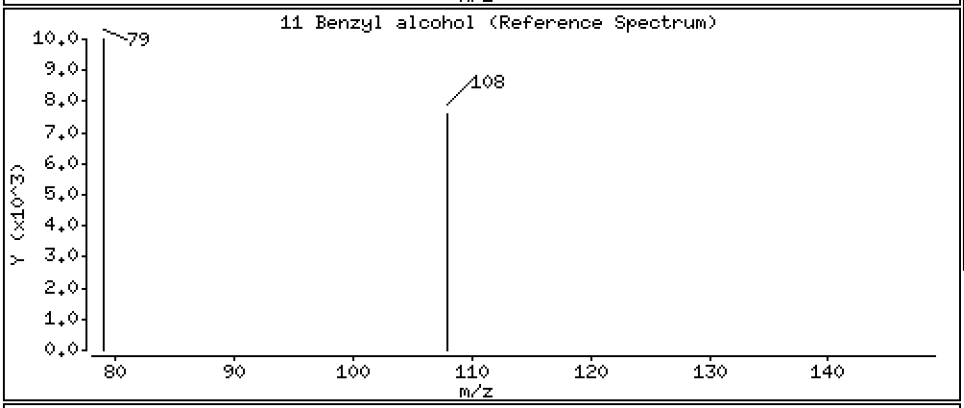
Concentration: 4.050 ug/L

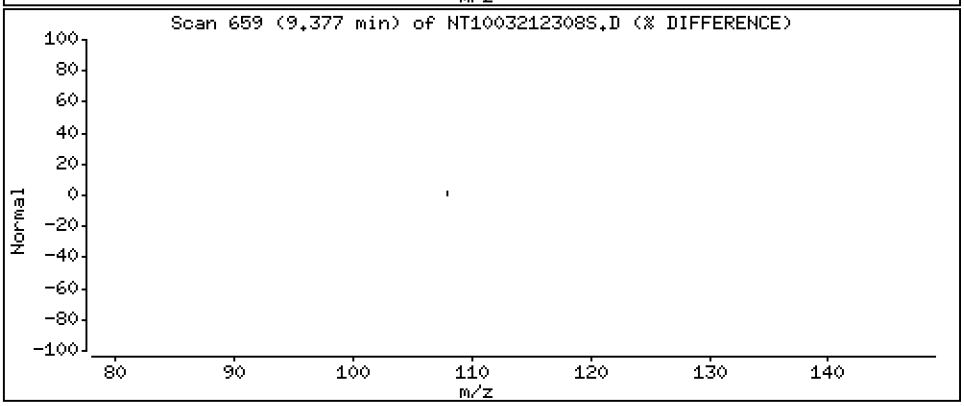












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212308S.D

Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD2

Volume Injected (uL): 1.0

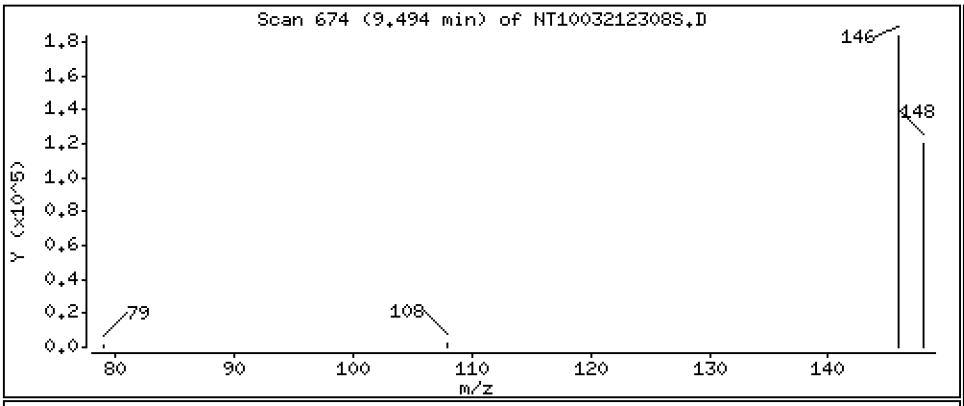
Operator: JGR

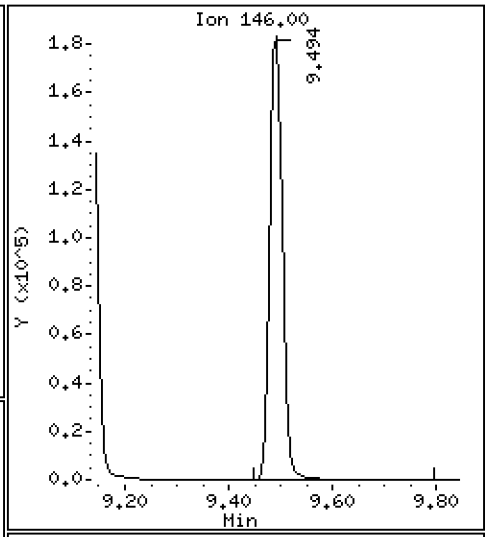
Column phase: ZB-5msi

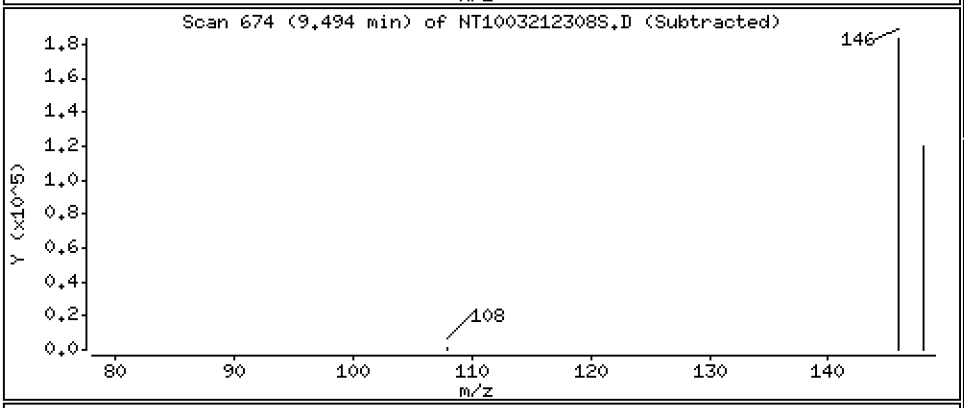
Column diameter: 0.25

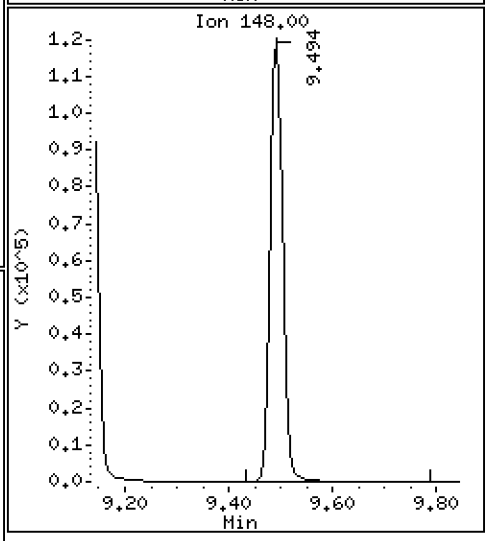
12 1,2-Dichlorobenzene

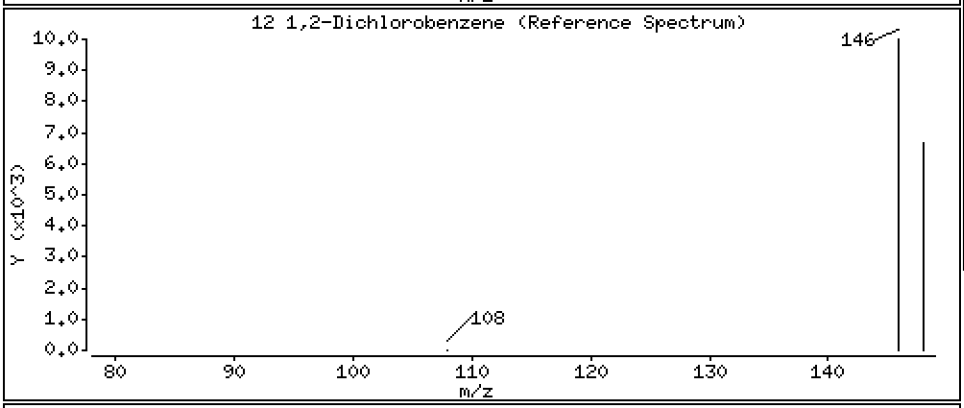
Concentration: 3.981 ug/L

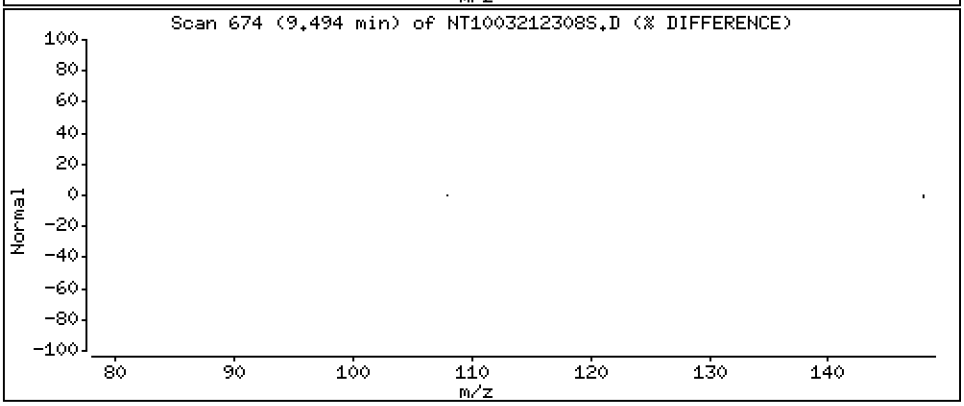












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT10032123085.D

Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD2

Volume Injected (uL): 1.0

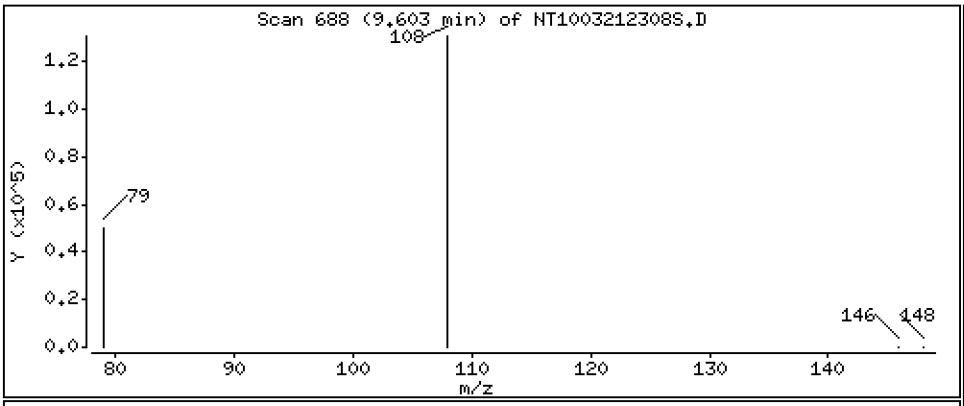
Operator: JGR

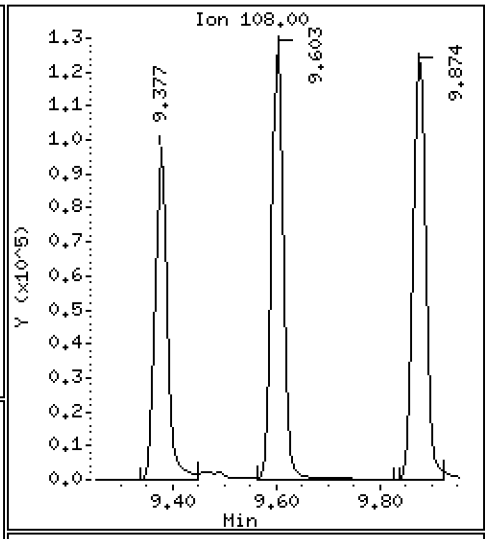
Column phase: ZB-5msi

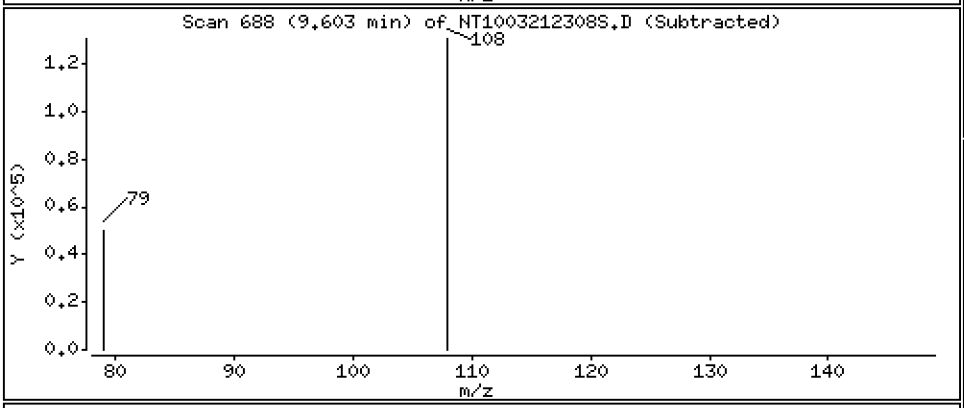
Column diameter: 0.25

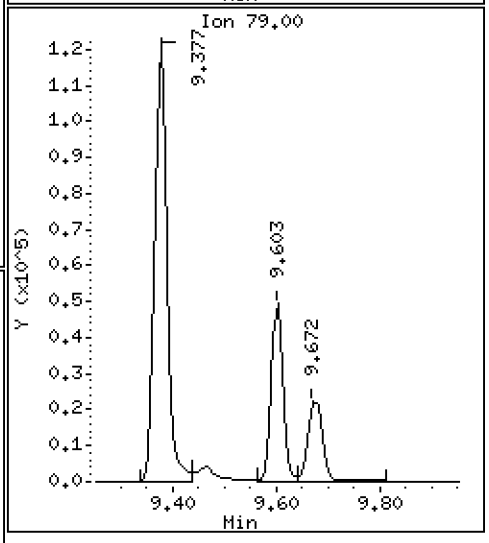
13 2-Methylphenol

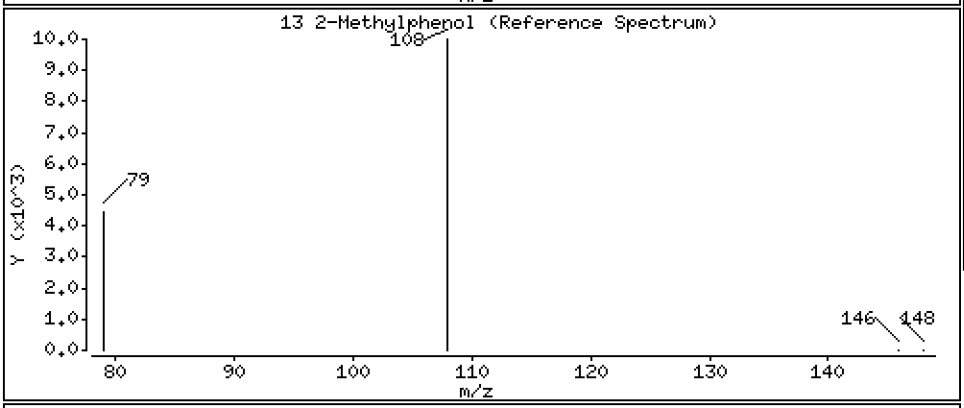
Concentration: 3.253 ug/L

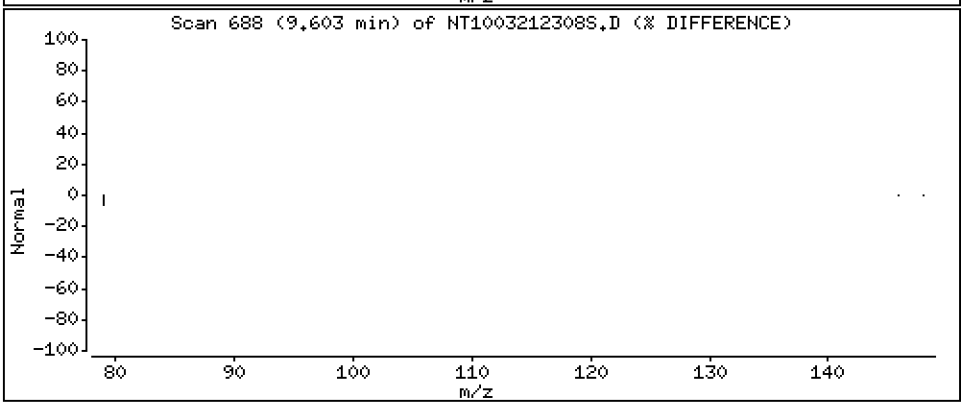












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212308S.D

Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD2

Volume Injected (uL): 1.0

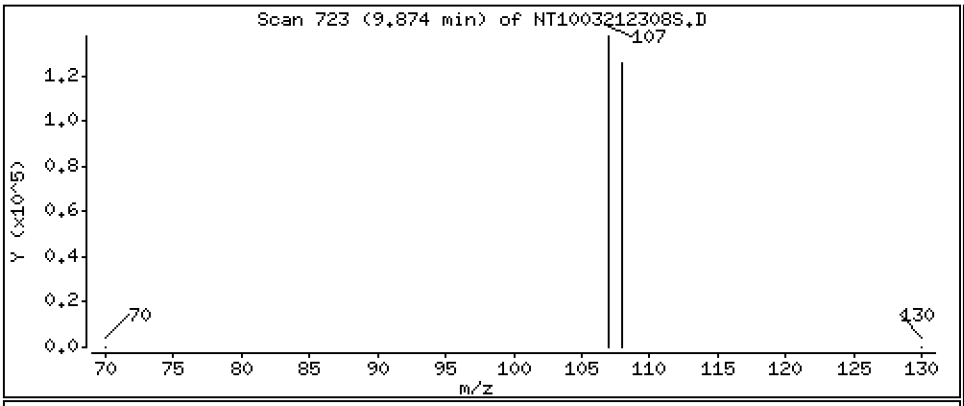
Operator: JGR

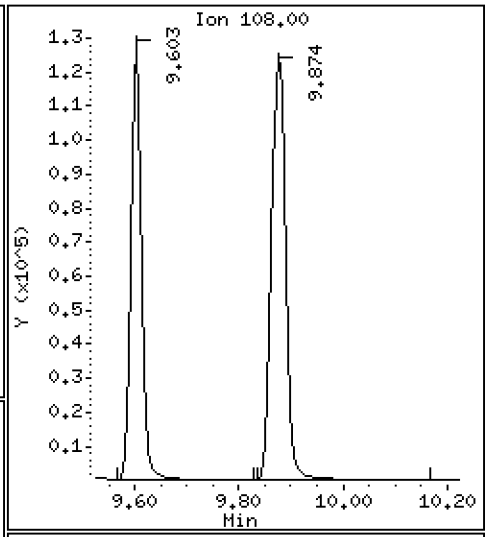
Column phase: ZB-5msi

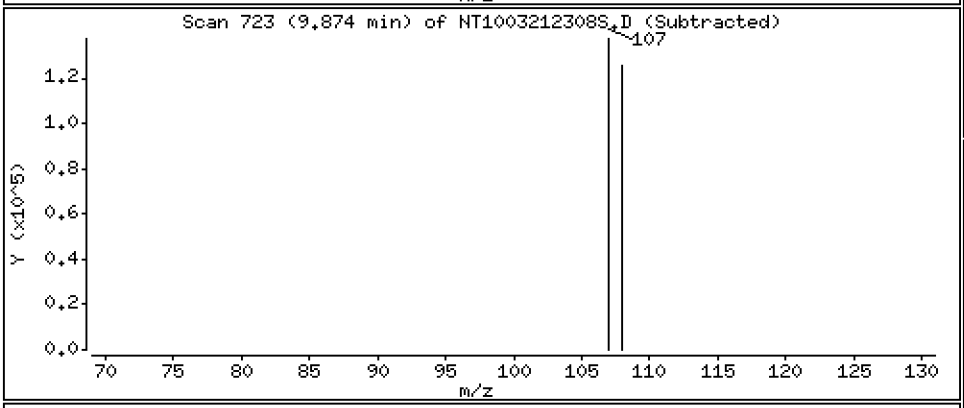
Column diameter: 0.25

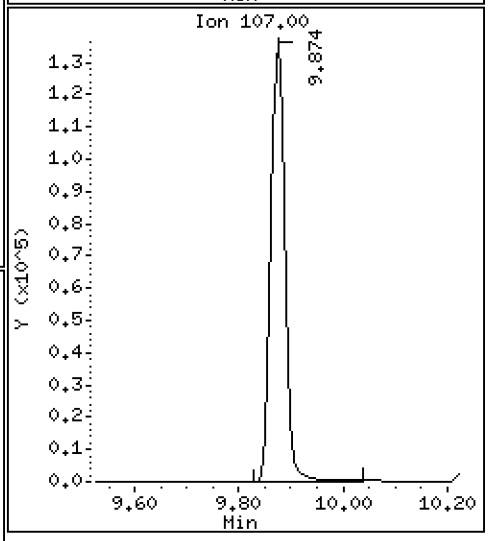
15 4-Methylphenol

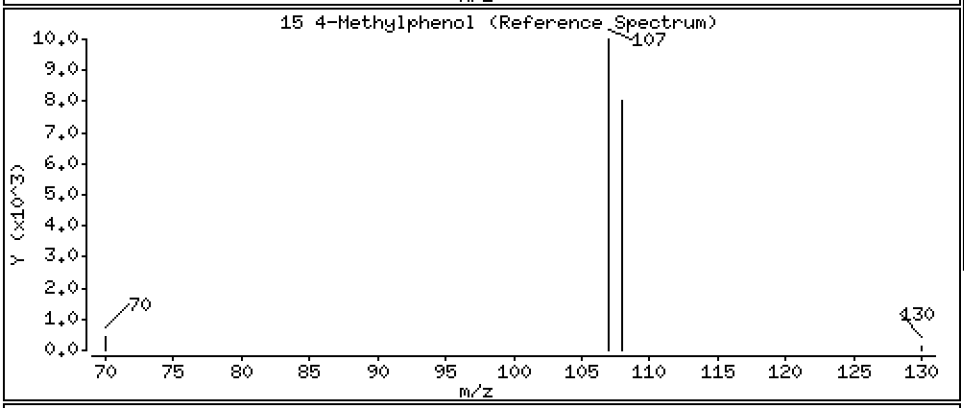
Concentration: 3.775 ug/L

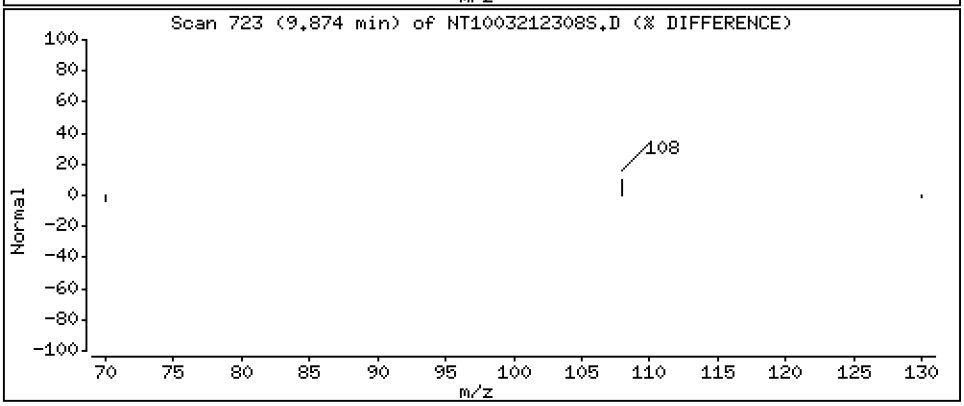












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212308S.D

Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD2

Volume Injected (uL): 1.0

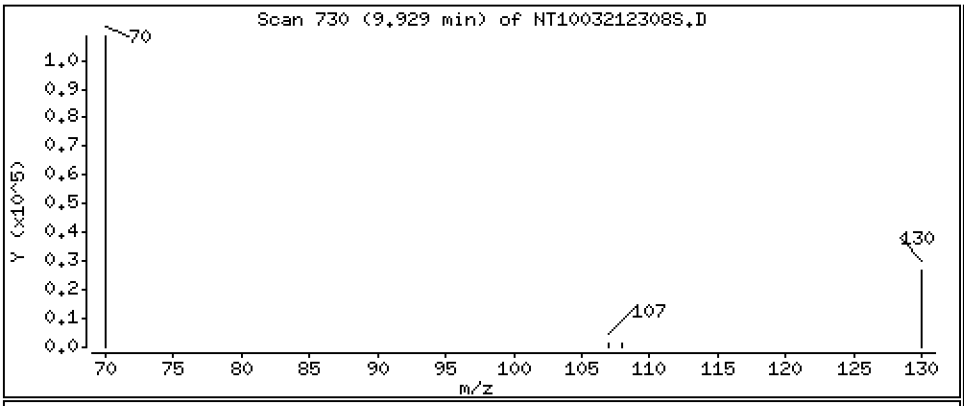
Operator: JGR

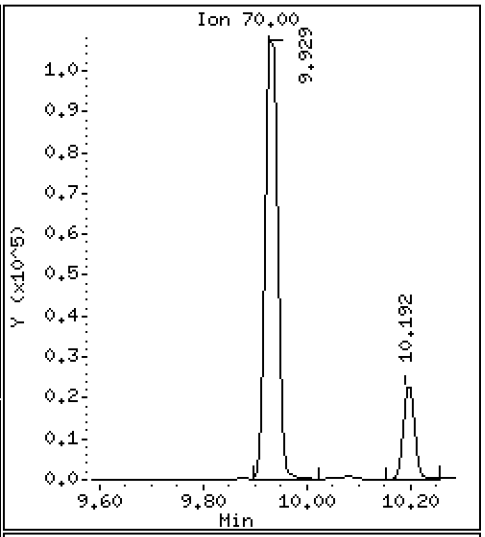
Column phase: ZB-5msi

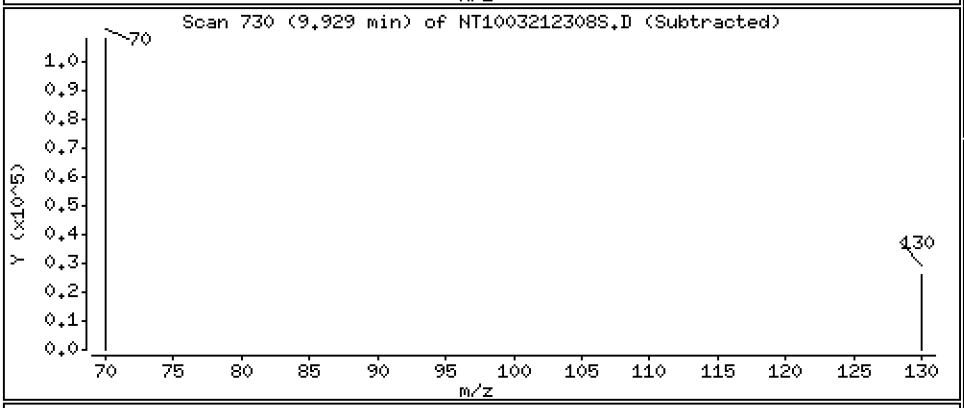
Column diameter: 0.25

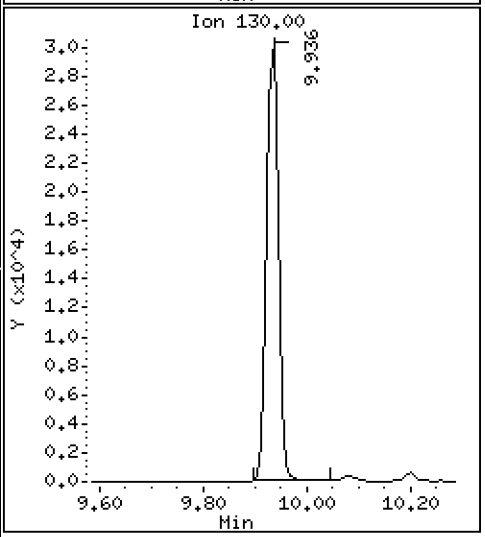
16 N-Nitroso-di-n-propylamine

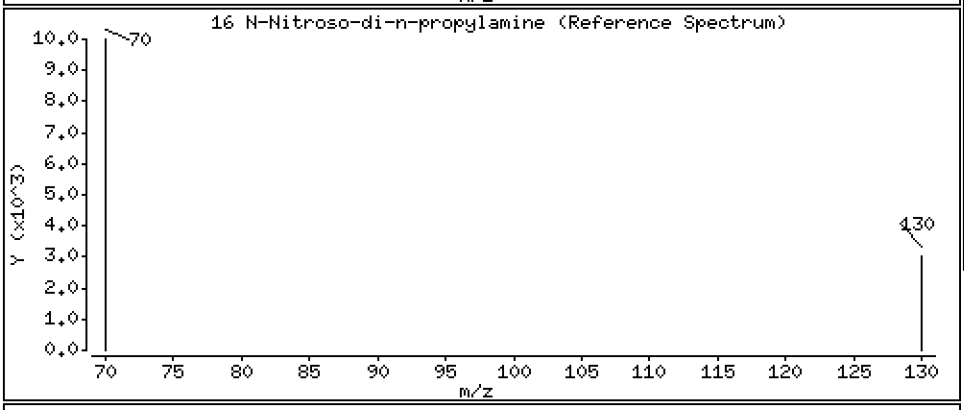
Concentration: 3.944 ug/L

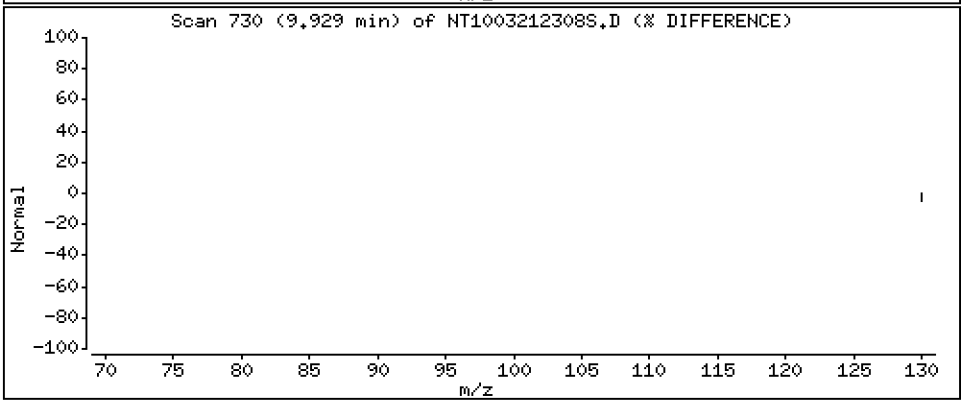












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT10032123085.D

Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD2

Volume Injected (uL): 1.0

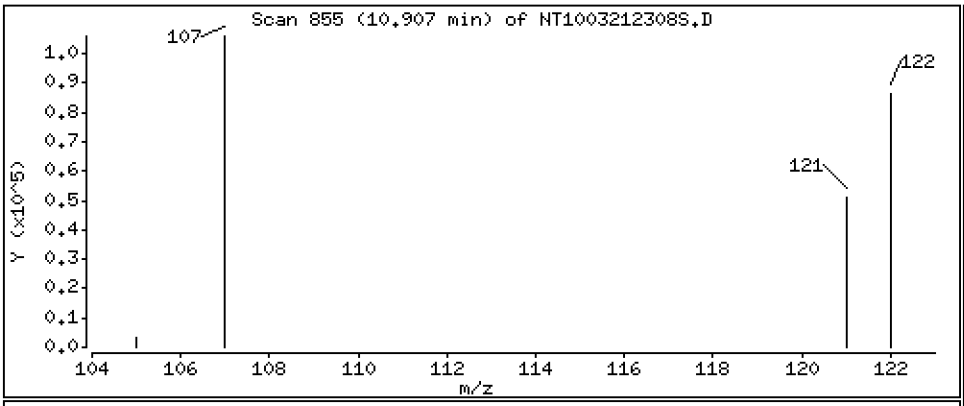
Operator: JGR

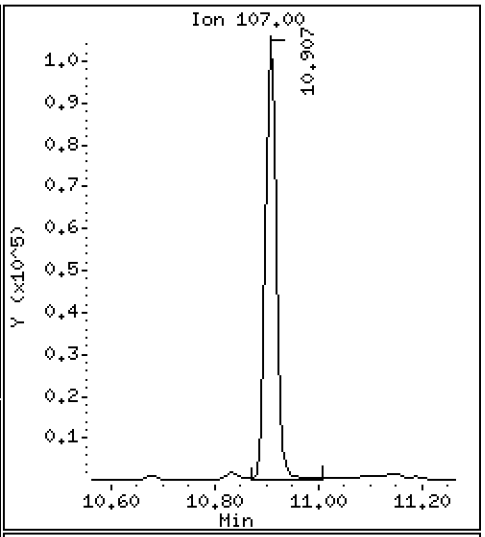
Column phase: ZB-5msi

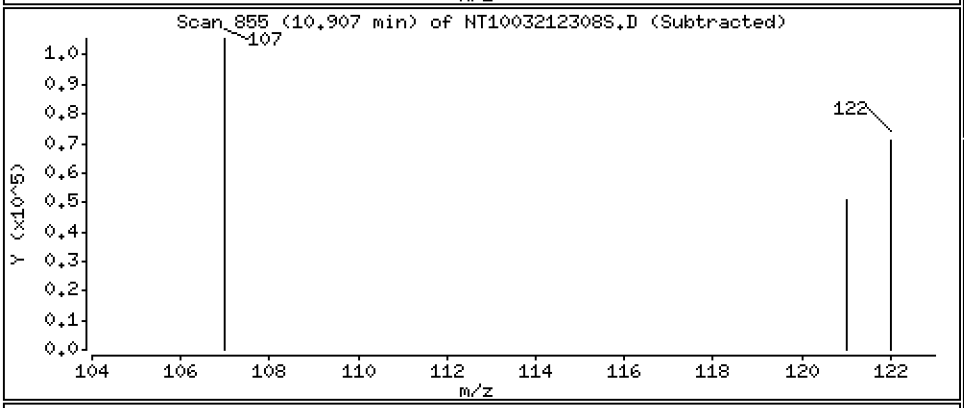
Column diameter: 0.25

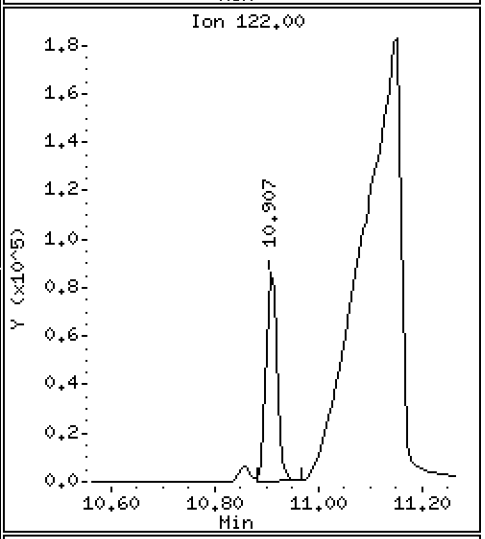
22 2,4-Dimethylphenol

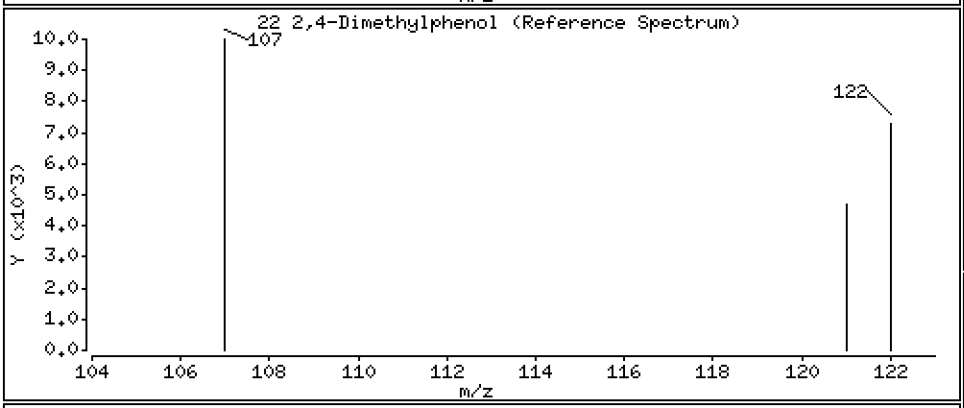
Concentration: 2.471 ug/L

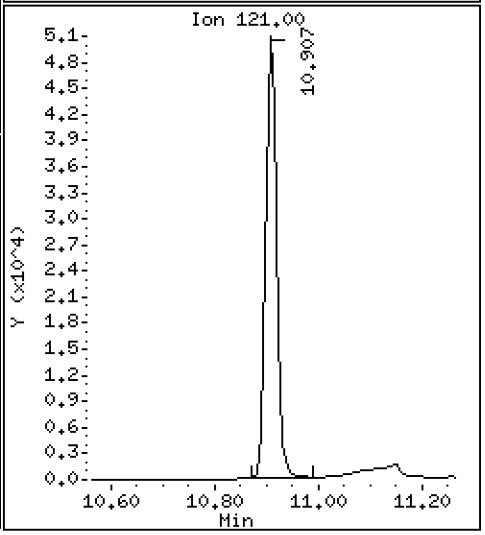


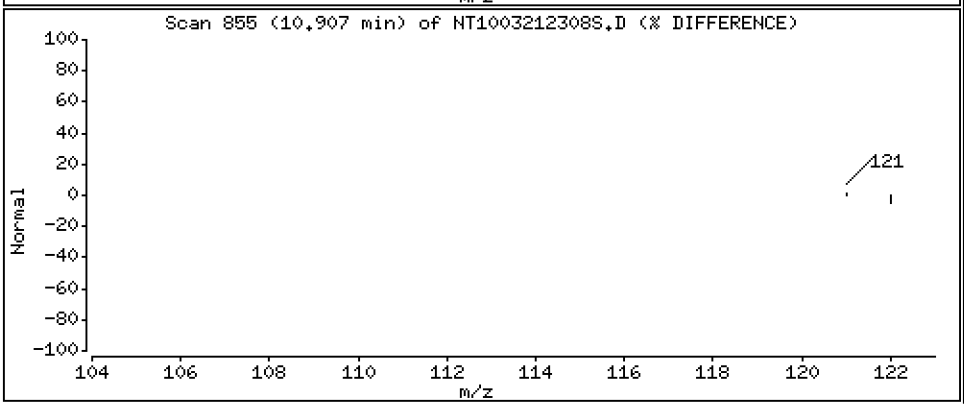












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT10032123085.D

Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD2

Volume Injected (uL): 1.0

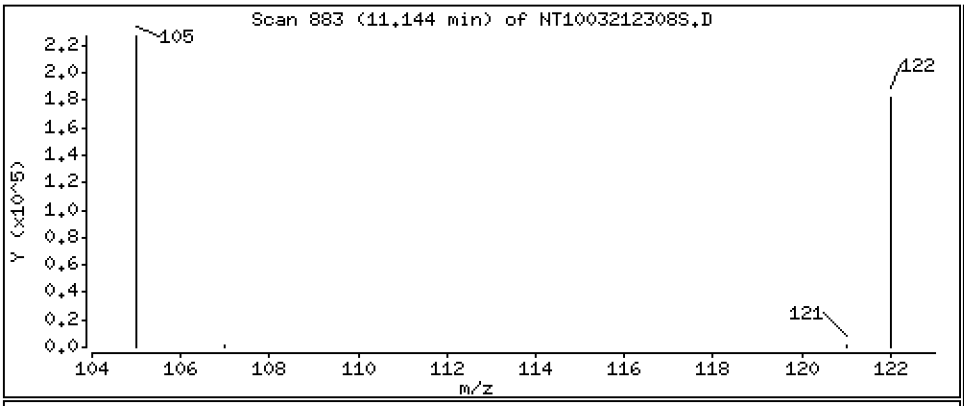
Operator: JGR

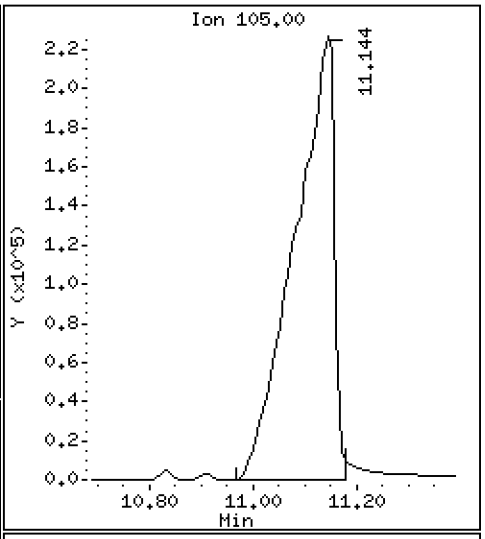
Column phase: ZB-5msi

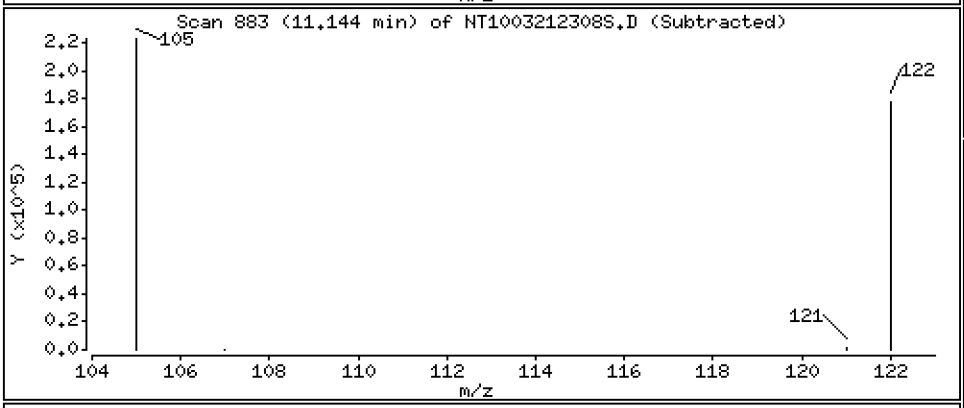
Column diameter: 0.25

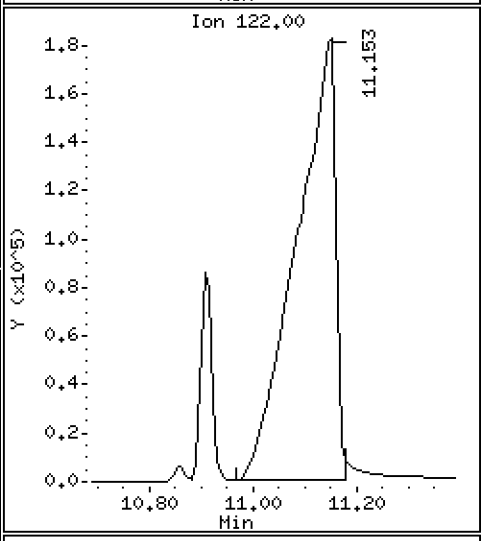
24 Benzoic acid

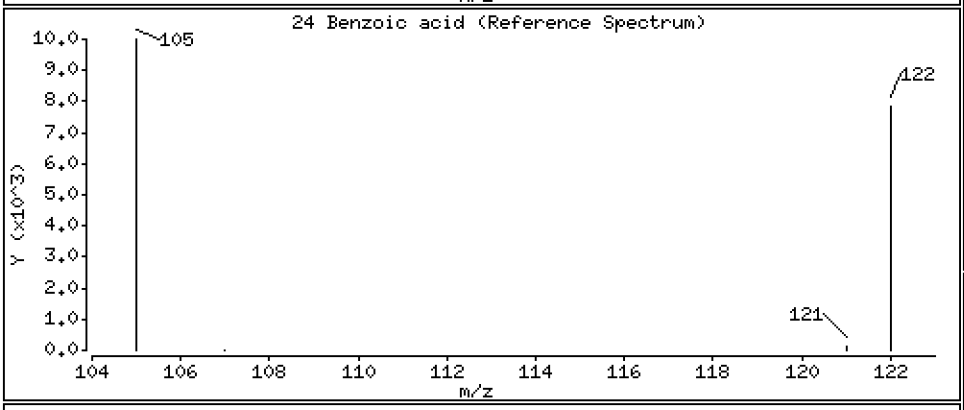
Concentration: 30.23 ug/L

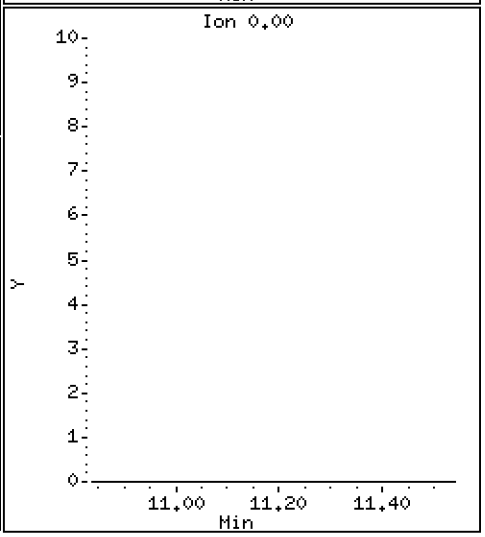


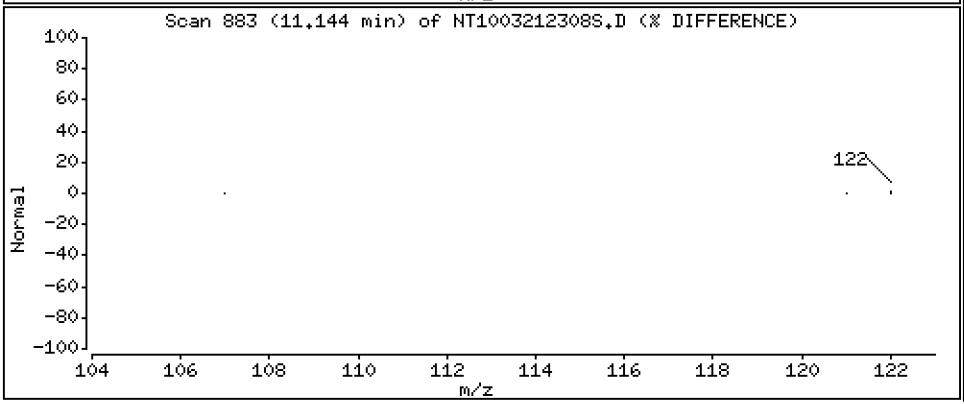












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT10032123085.D

Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD2

Volume Injected (uL): 1.0

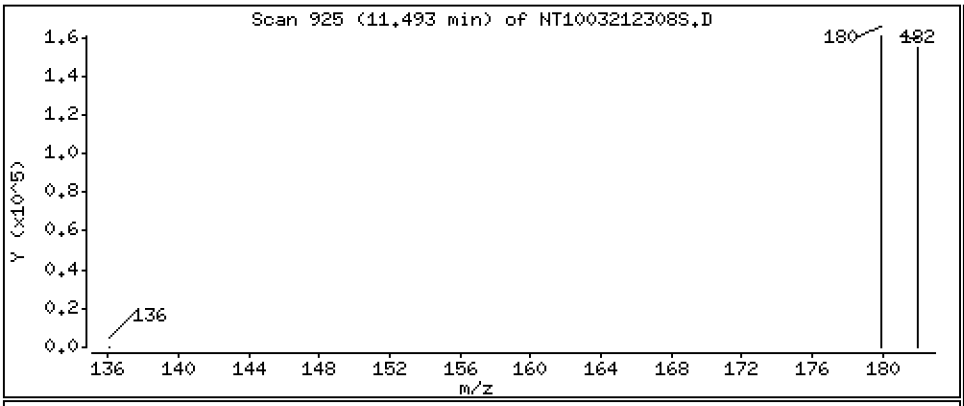
Operator: JGR

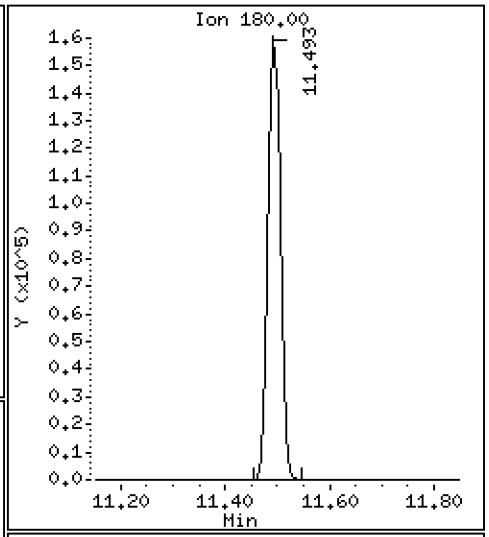
Column phase: ZB-5msi

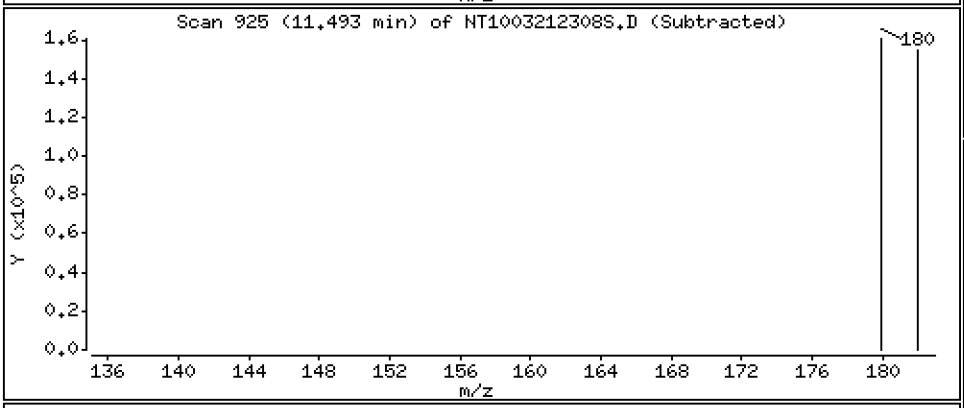
Column diameter: 0.25

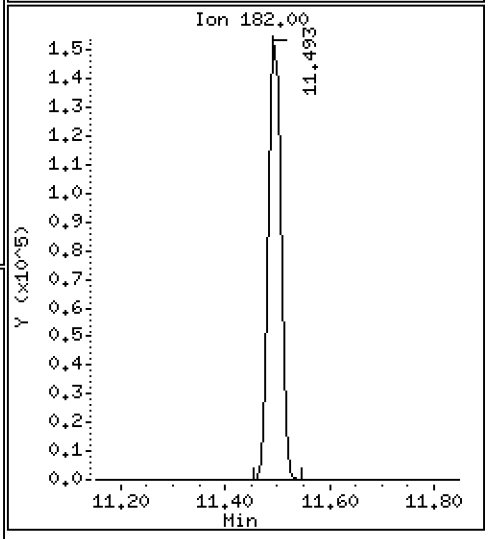
26 1,2,4-Trichlorobenzene

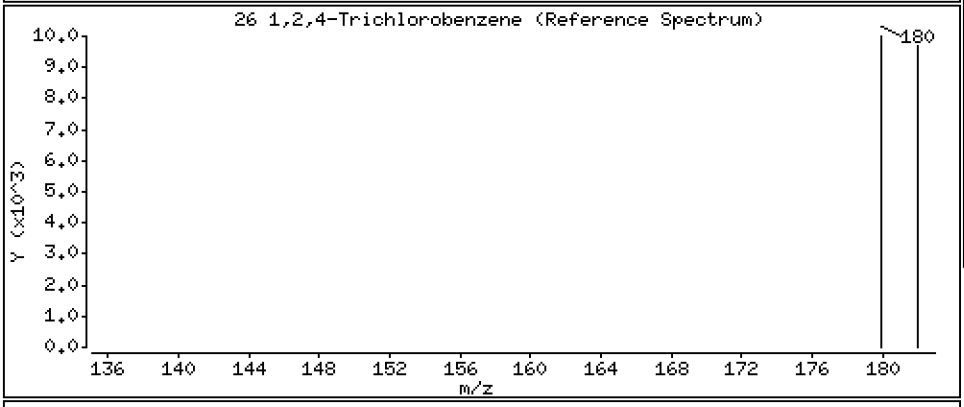
Concentration: 3.982 ug/L

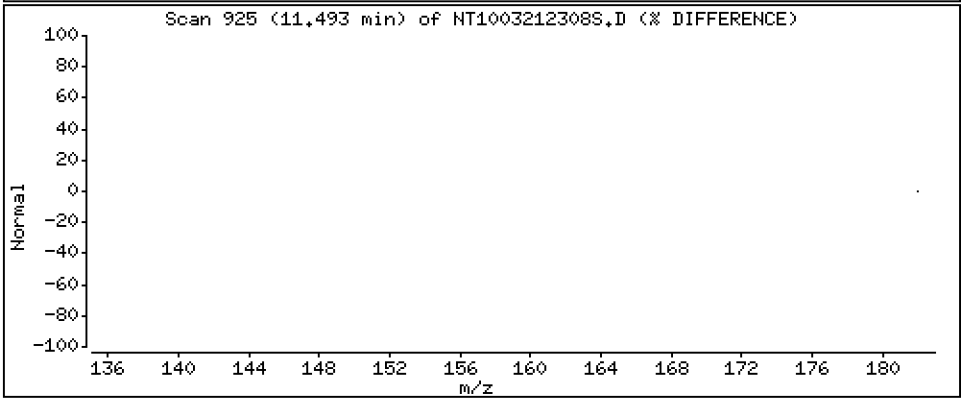












Date : 21-MAR-2023 21:39

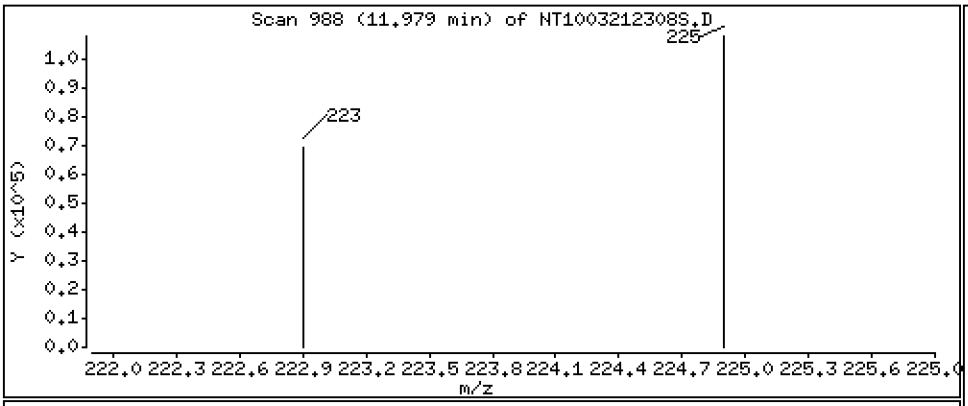
Client ID: Instrument: nt10.i

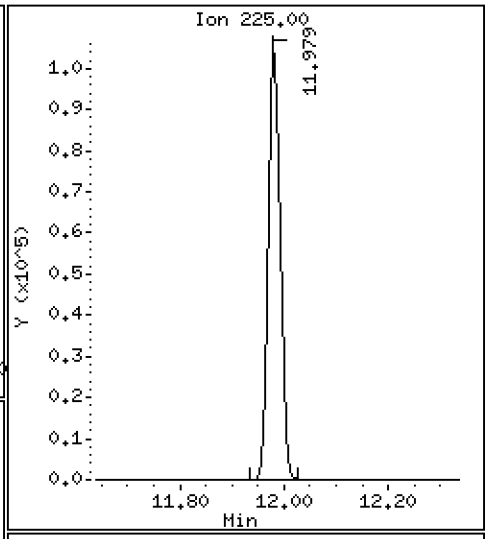
Sample Info: BLC0109-BSD2

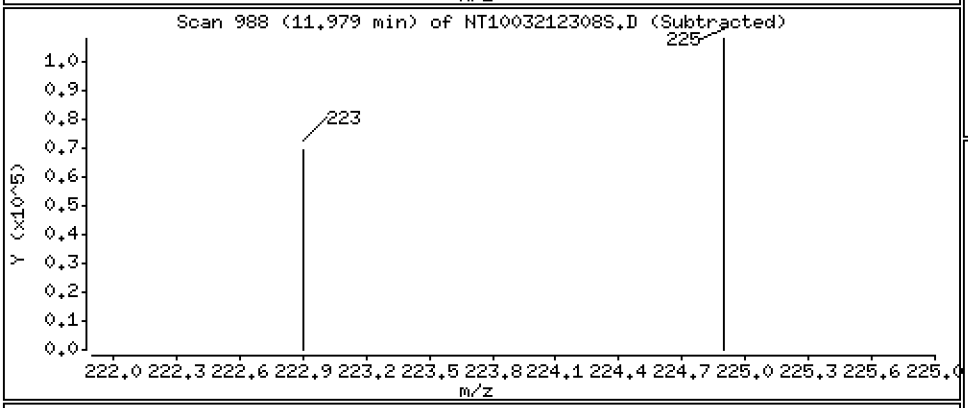
Volume Injected (uL): 1.0 Operator: JGR

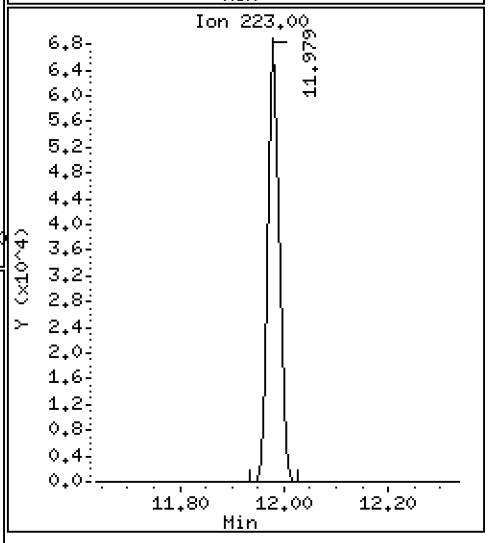
Column phase: ZB-5msi Column diameter: 0.25

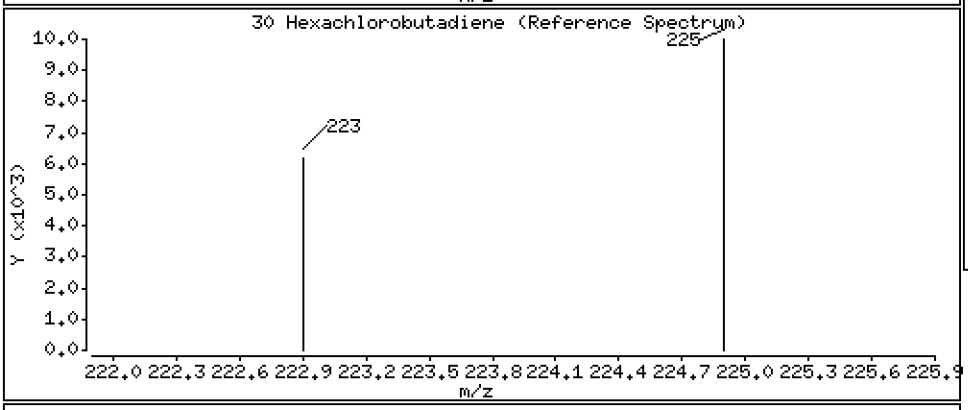
30 Hexachlorobutadiene Concentration: 4.209 ug/L

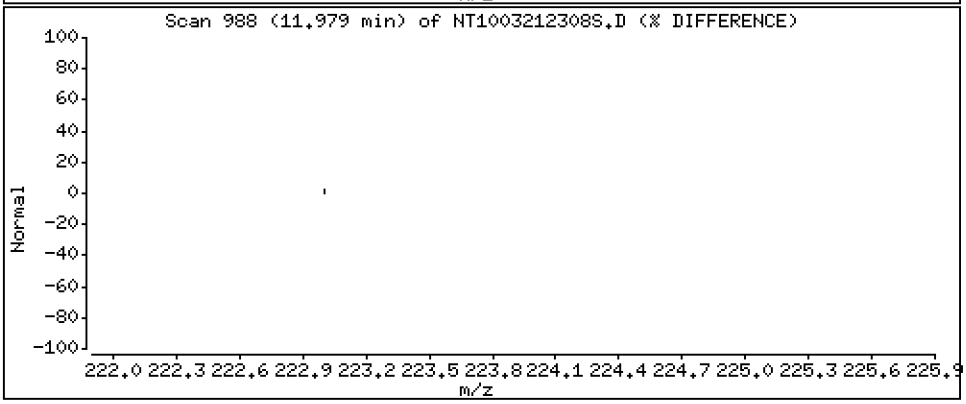












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212308S.D

Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD2

Volume Injected (uL): 1.0

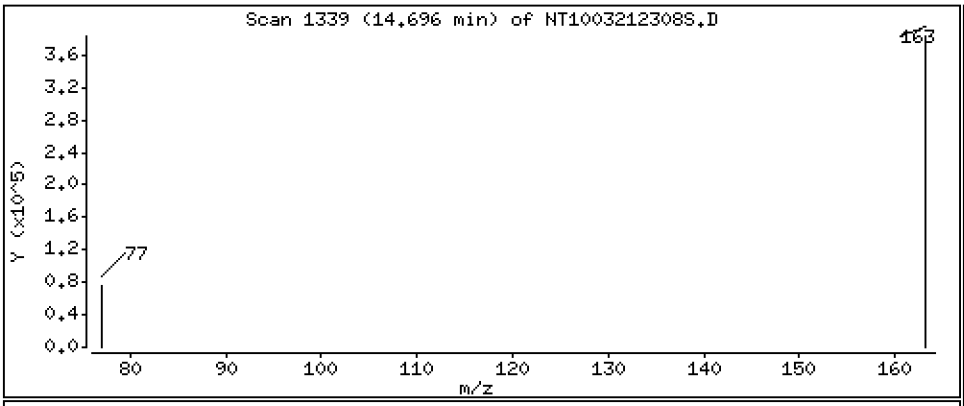
Operator: JGR

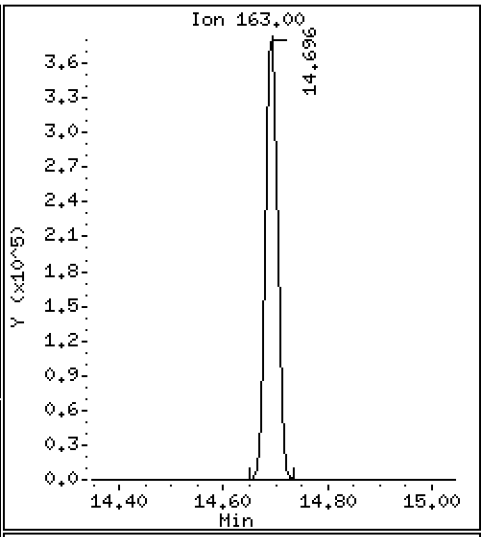
Column phase: ZB-5msi

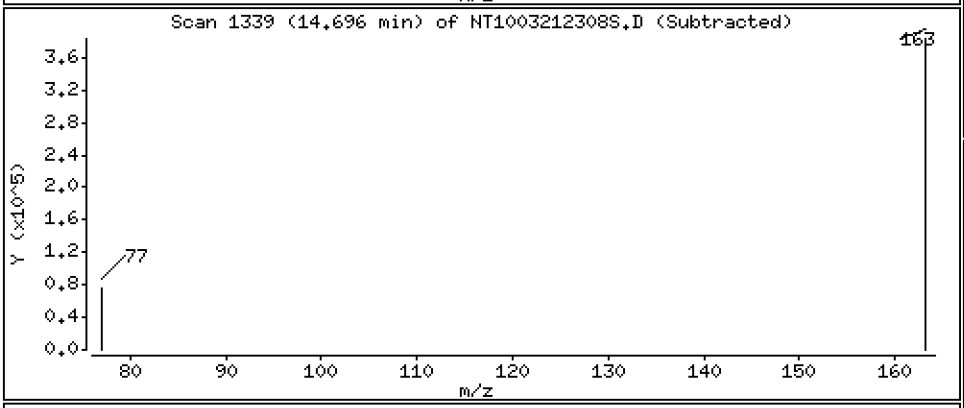
Column diameter: 0.25

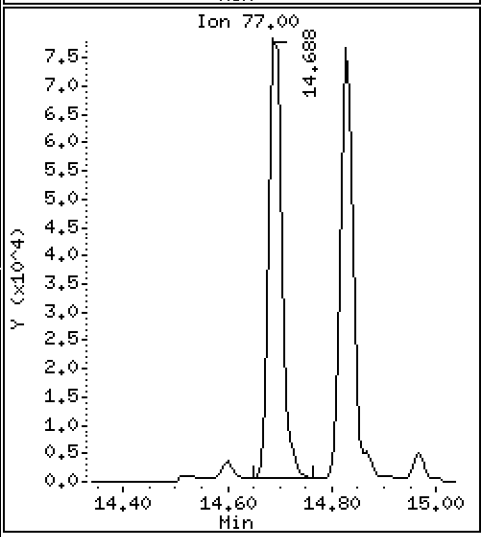
39 Dimethylphthalate

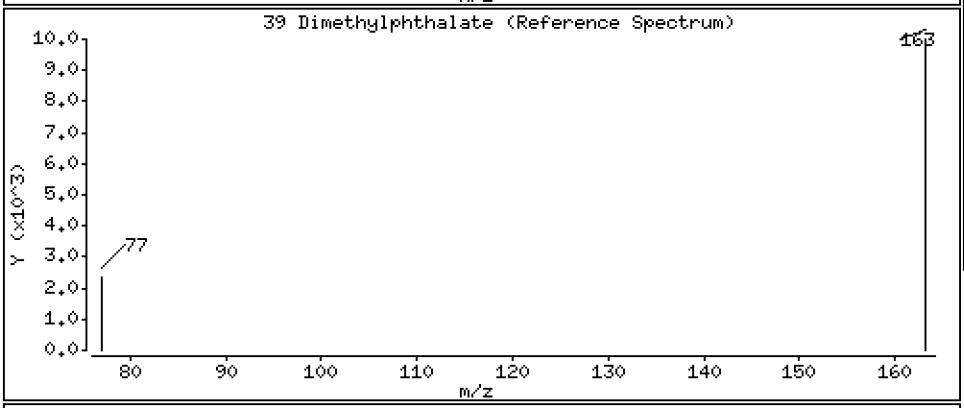
Concentration: 5.071 ug/L

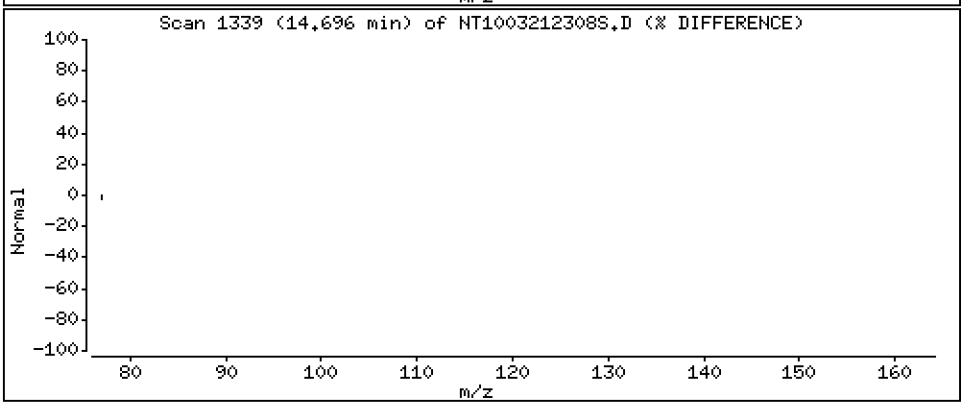












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212308S.D

Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD2

Volume Injected (uL): 1.0

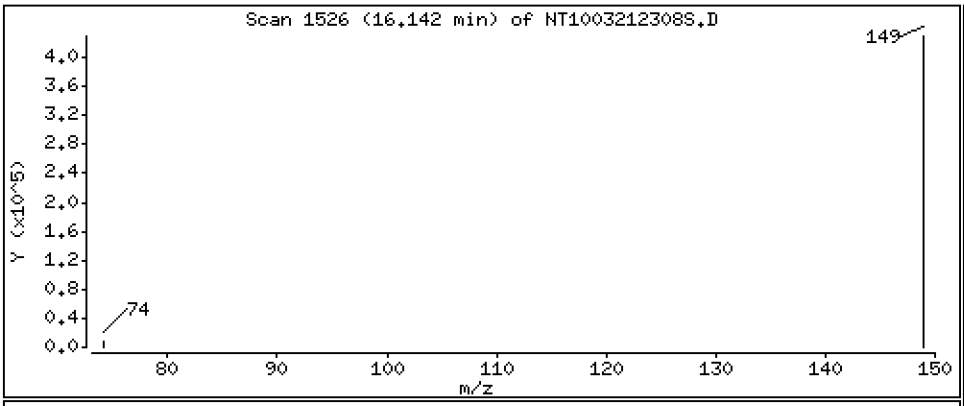
Operator: JGR

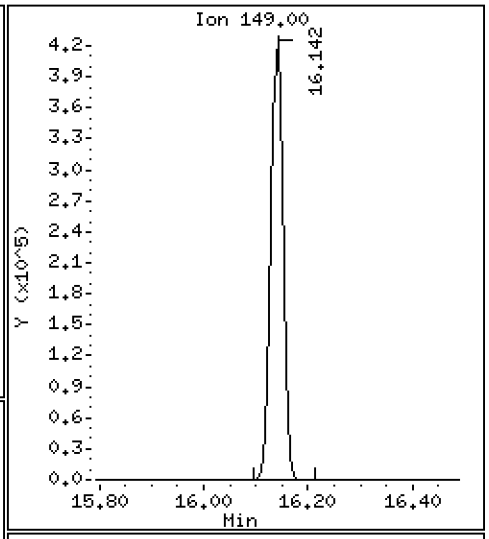
Column phase: ZB-5msi

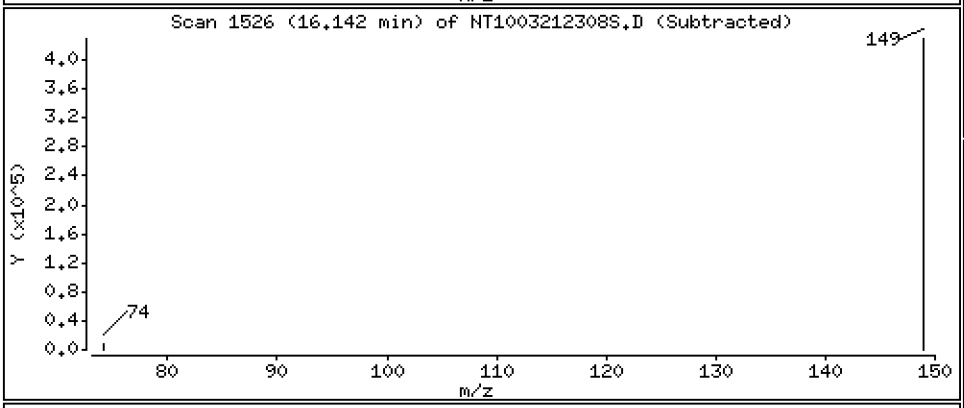
Column diameter: 0.25

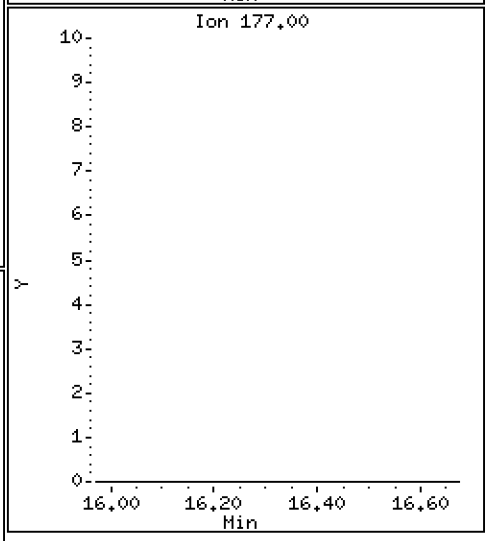
50 Diethylphthalate

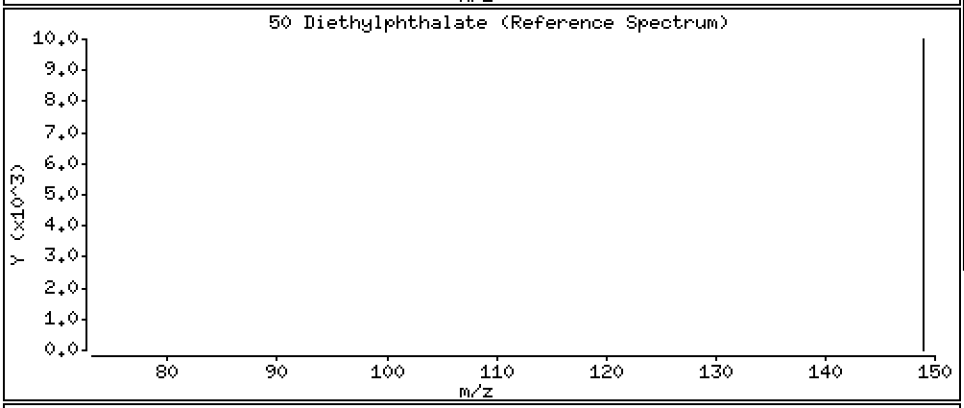
Concentration: 5.455 ug/L

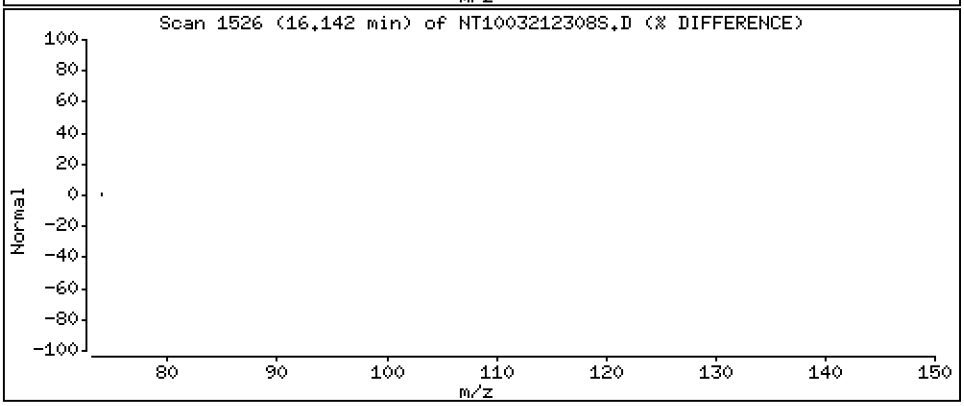












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212308S.D

Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD2

Volume Injected (uL): 1.0

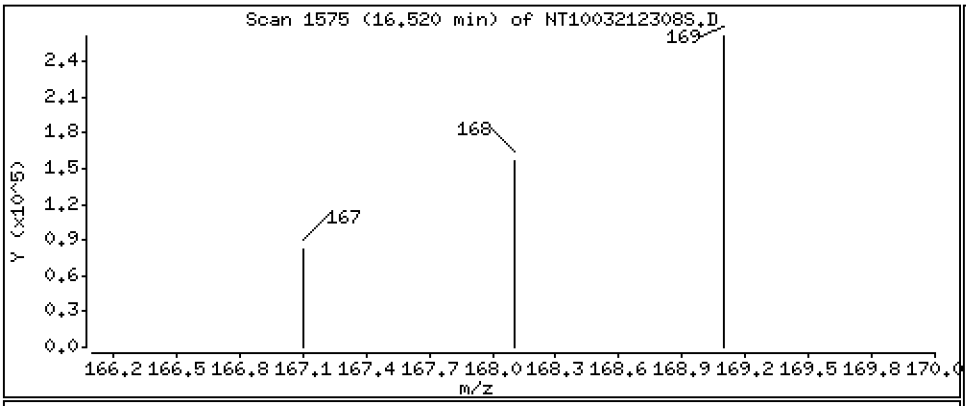
Operator: JGR

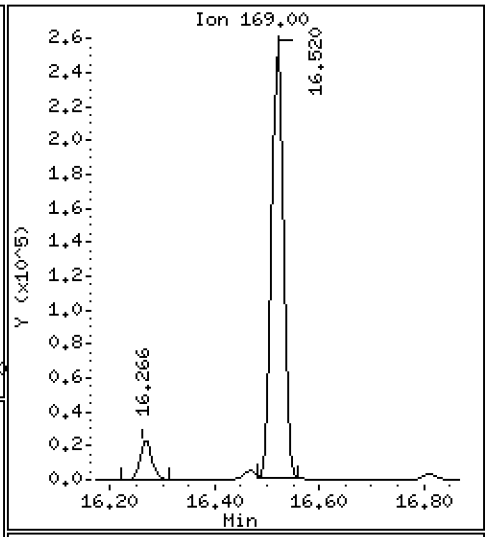
Column phase: ZB-5msi

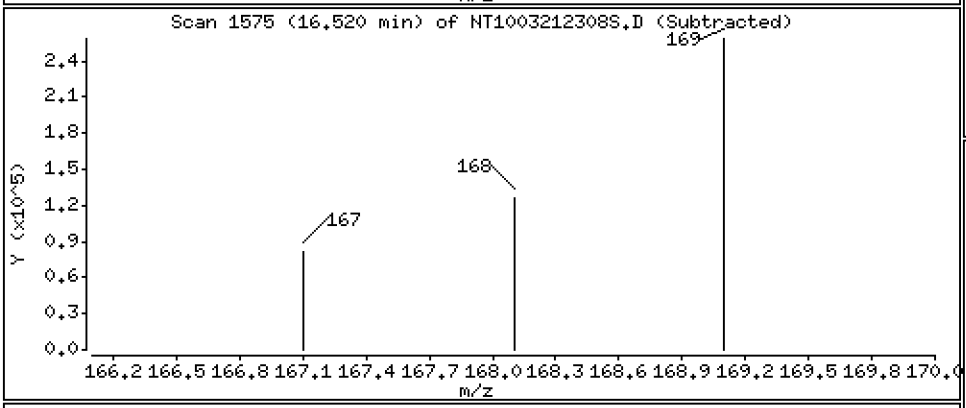
Column diameter: 0.25

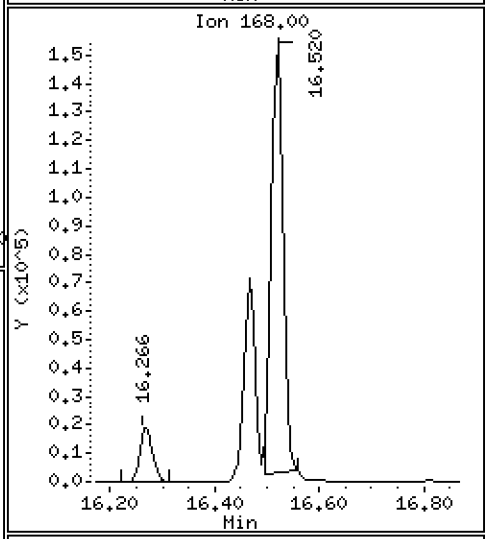
54 N-Nitrosodiphenylamine

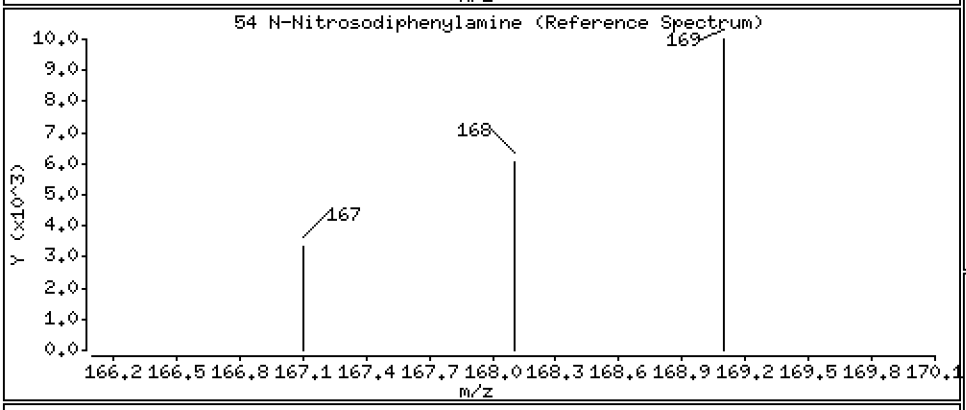
Concentration: 3.948 ug/L

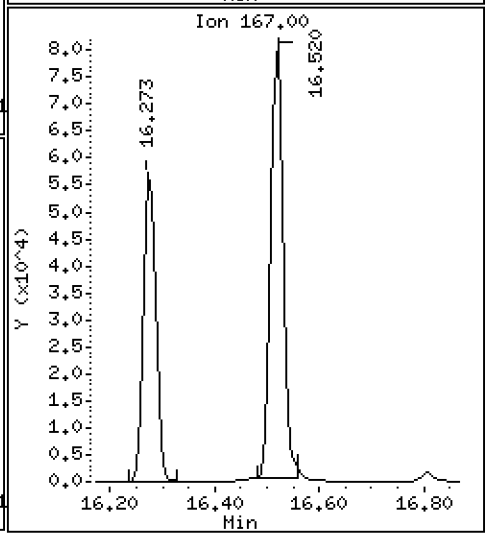


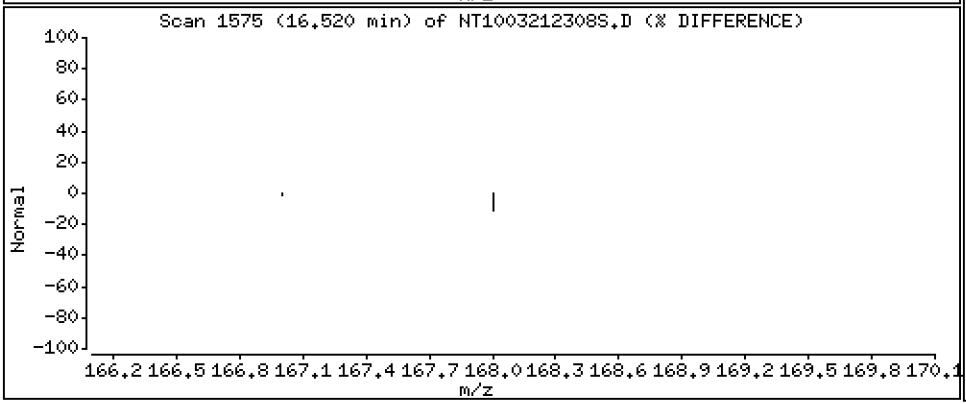












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212308S.D

Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD2

Volume Injected (uL): 1.0

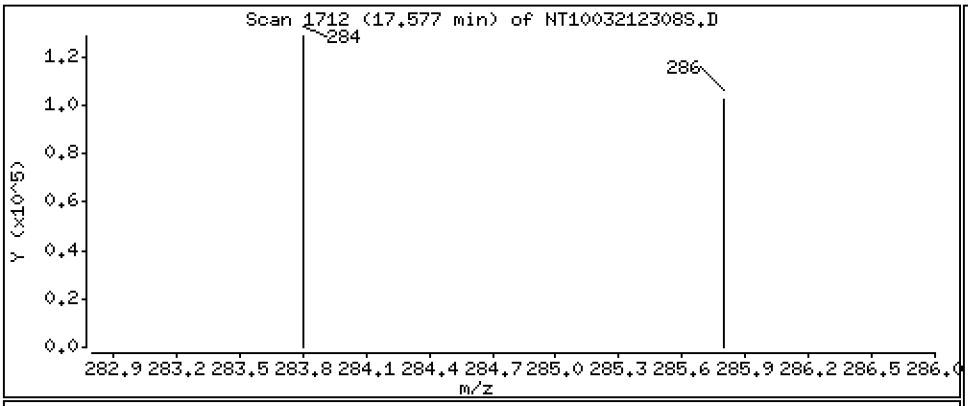
Operator: JGR

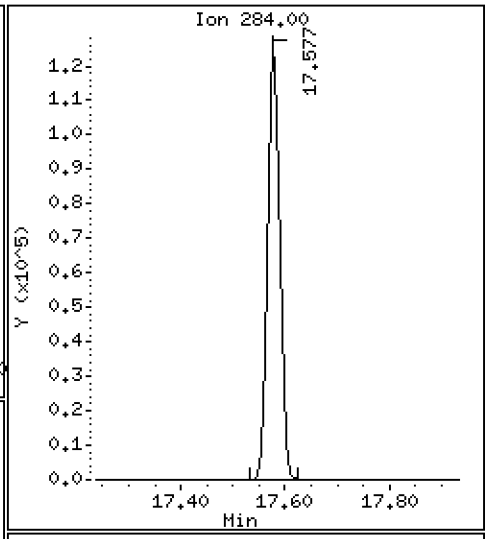
Column phase: ZB-5msi

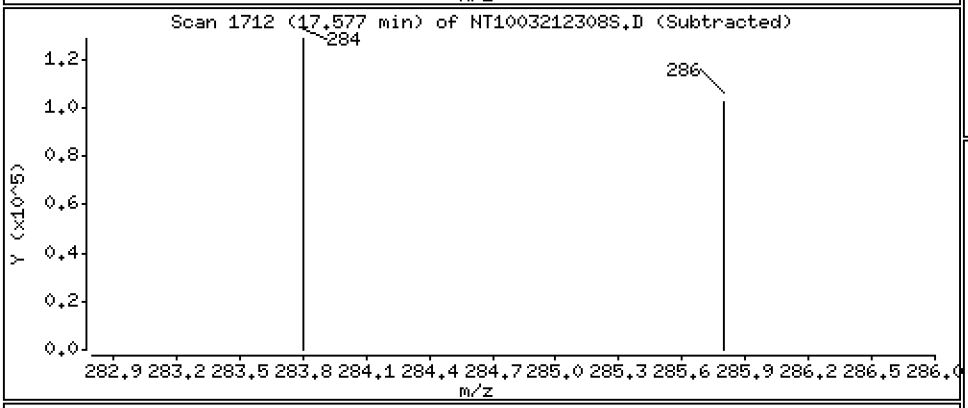
Column diameter: 0.25

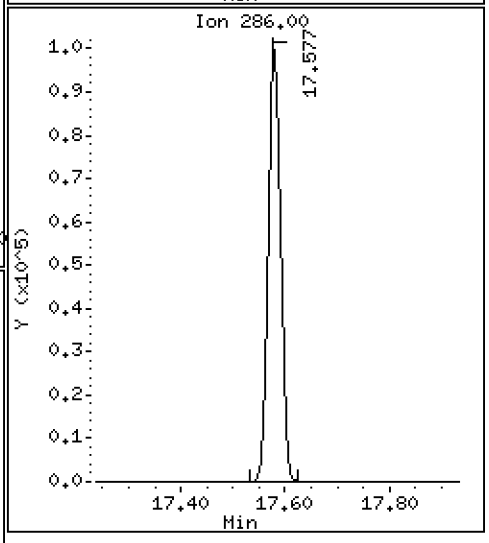
57 Hexachlorobenzene

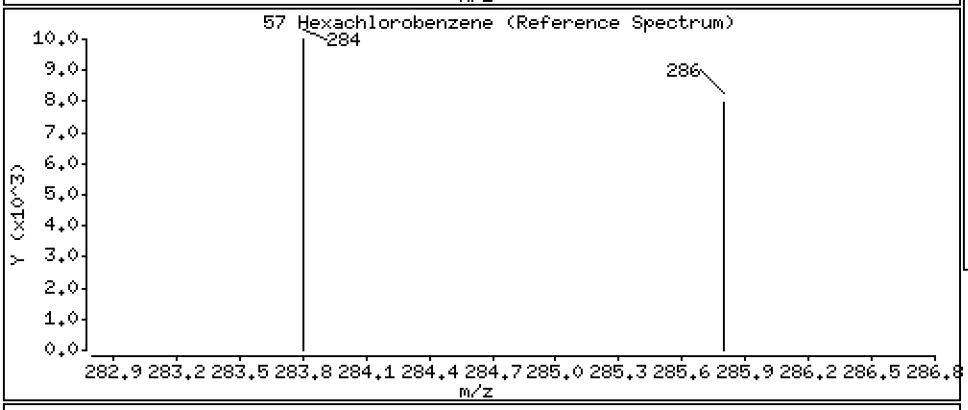
Concentration: 4.604 ug/L

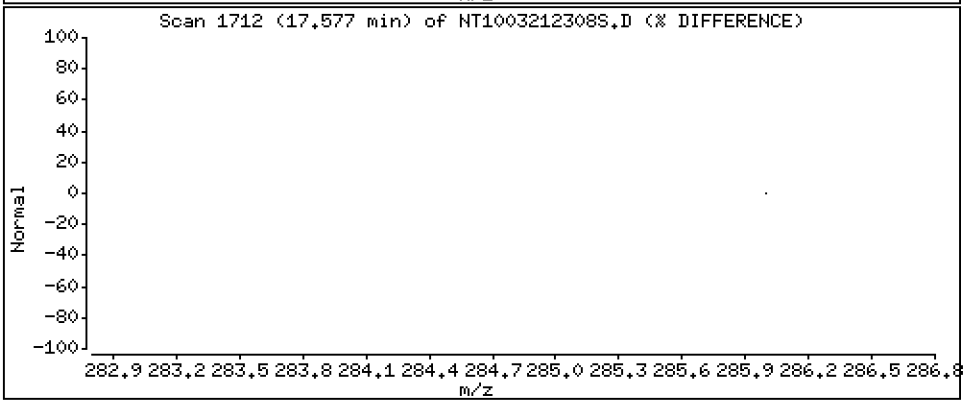












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212308S.D

Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD2

Volume Injected (uL): 1.0

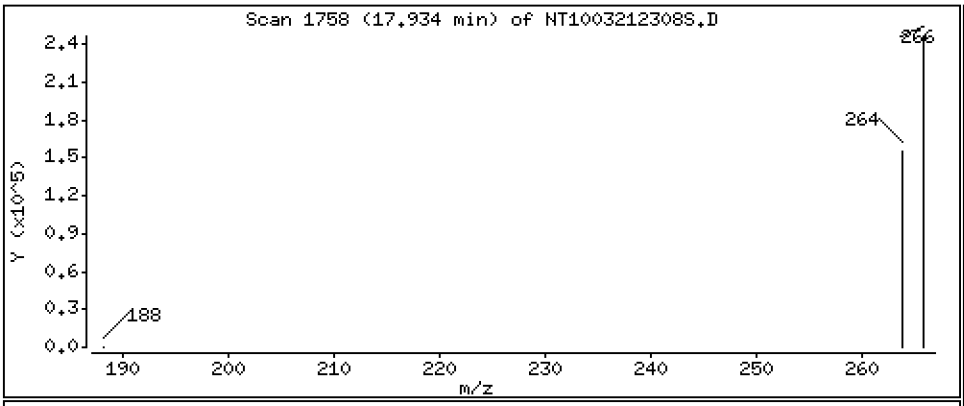
Operator: JGR

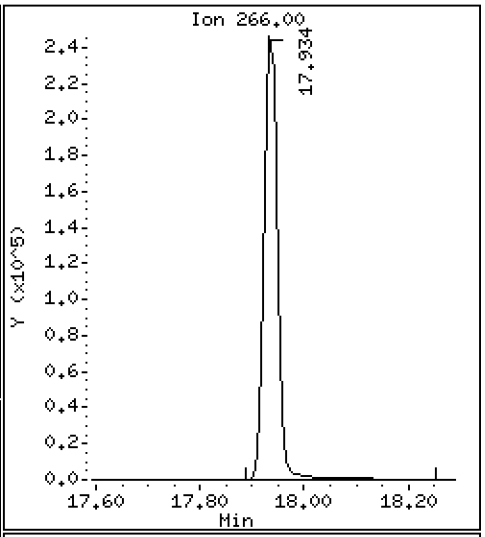
Column phase: ZB-5msi

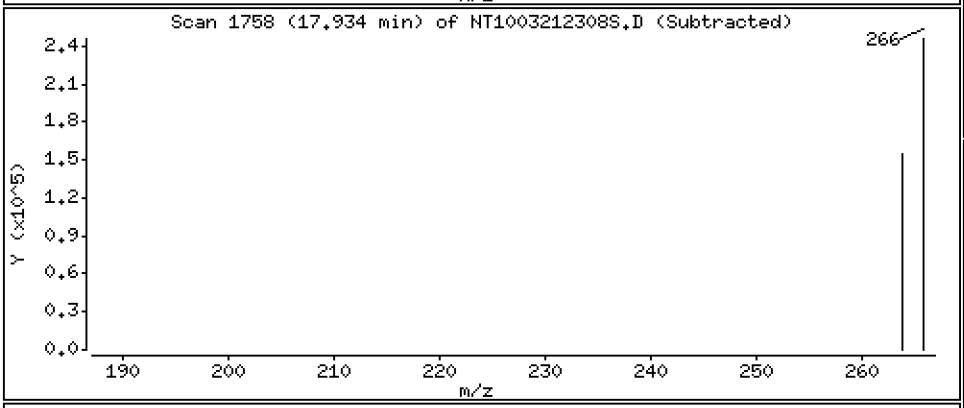
Column diameter: 0.25

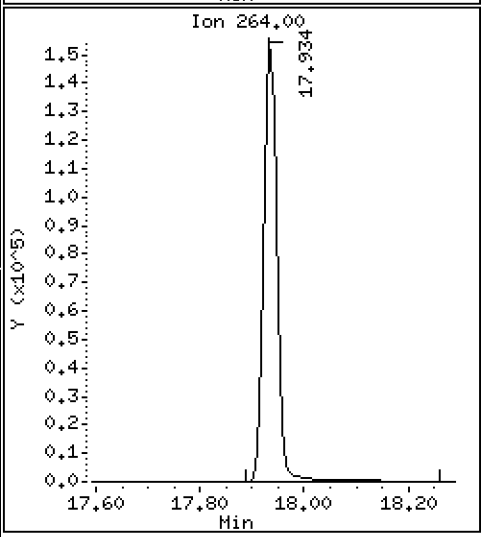
58 Pentachlorophenol

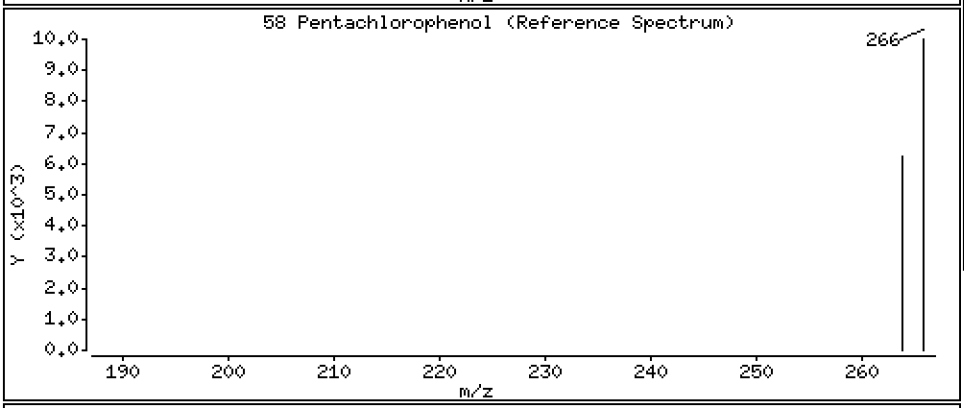
Concentration: 15.97 ug/L

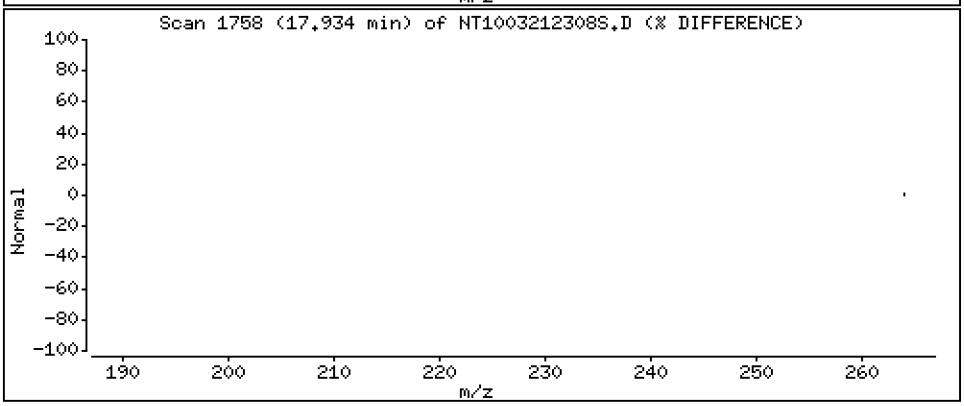












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212308S.D

Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD2

Volume Injected (uL): 1.0

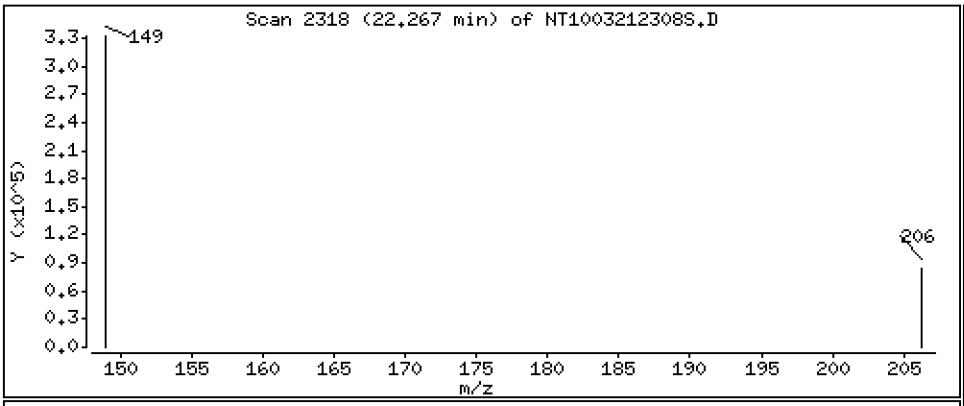
Operator: JGR

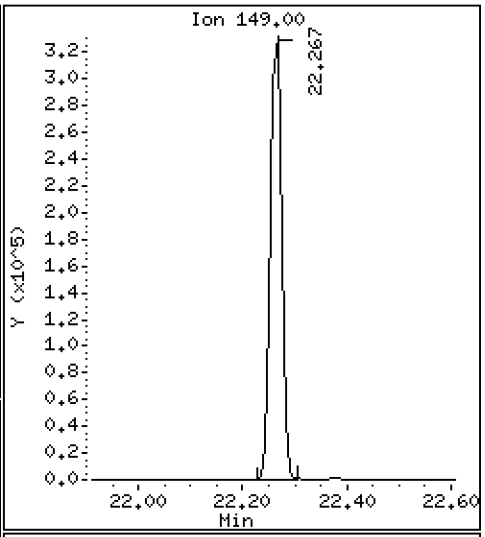
Column phase: ZB-5msi

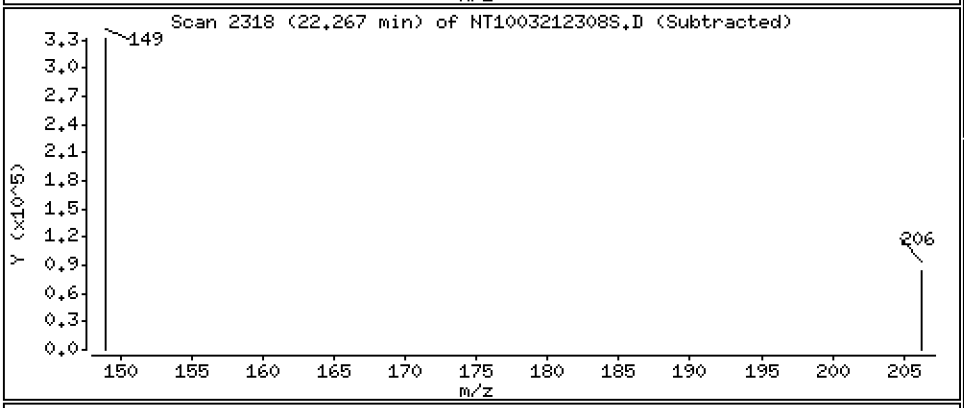
Column diameter: 0.25

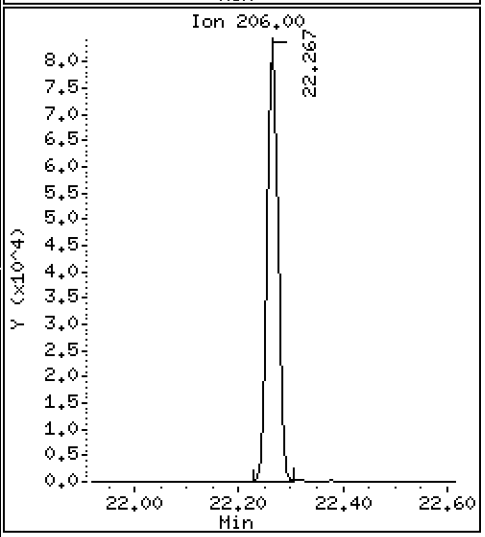
67 Butylbenzylphthalate

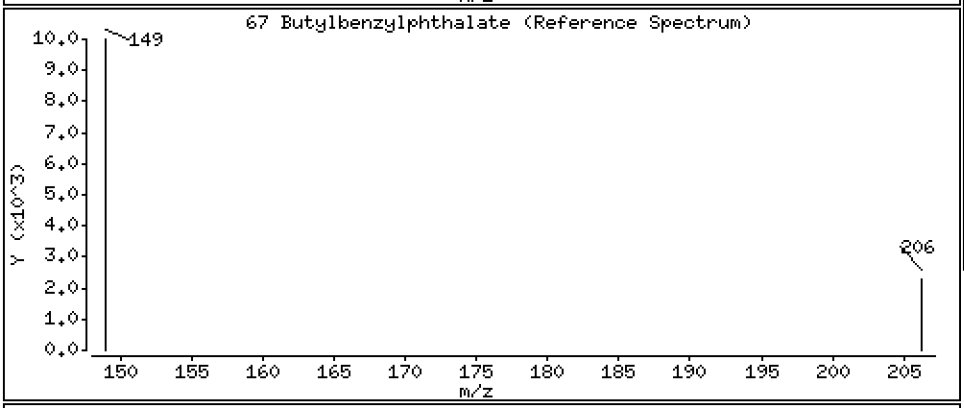
Concentration: 5.464 ug/L

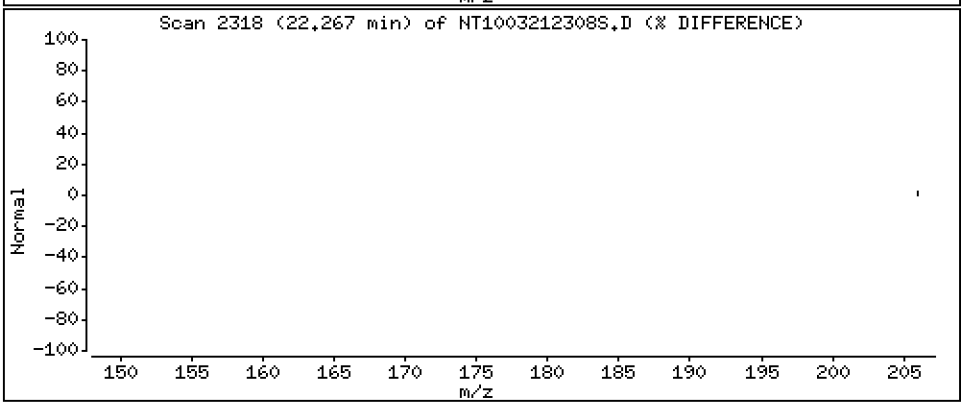












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212308S.D

Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD2

Volume Injected (uL): 1.0

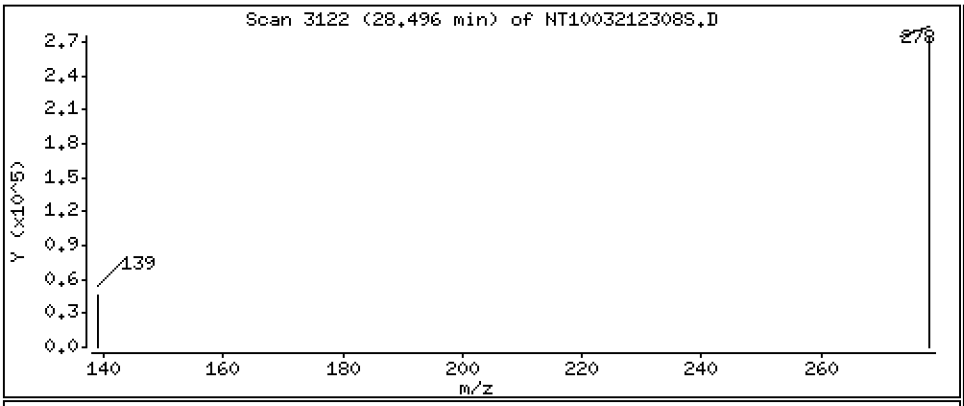
Operator: JGR

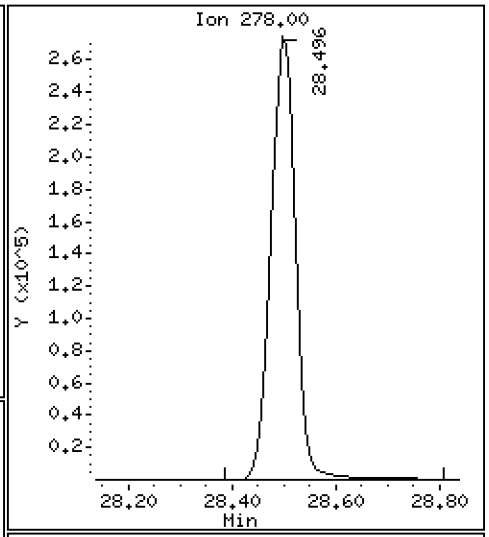
Column phase: ZB-5msi

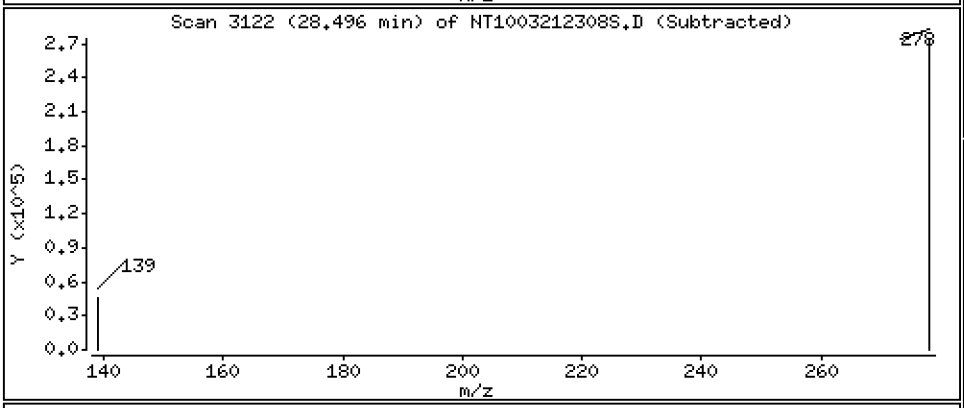
Column diameter: 0.25

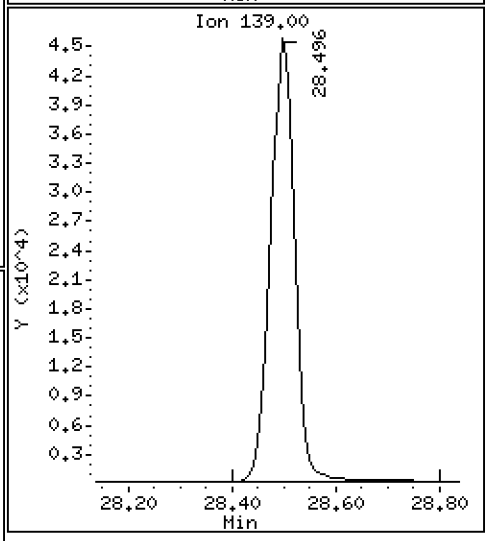
79 Dibenzo(a,h)anthracene

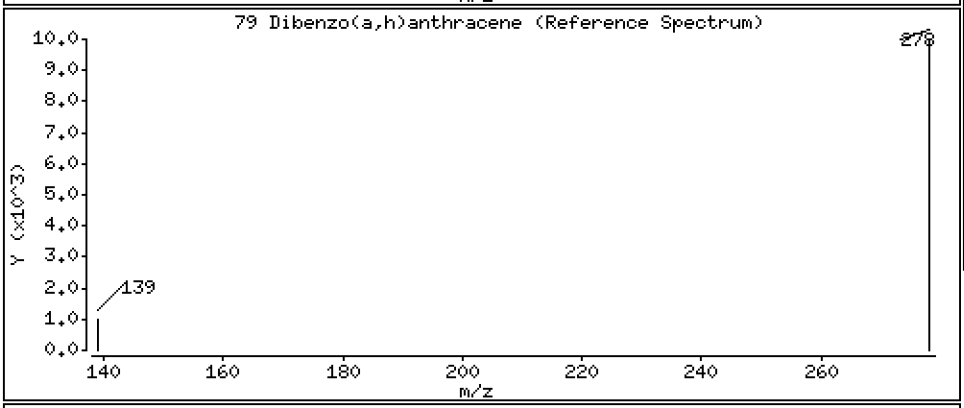
Concentration: 4.400 ug/L

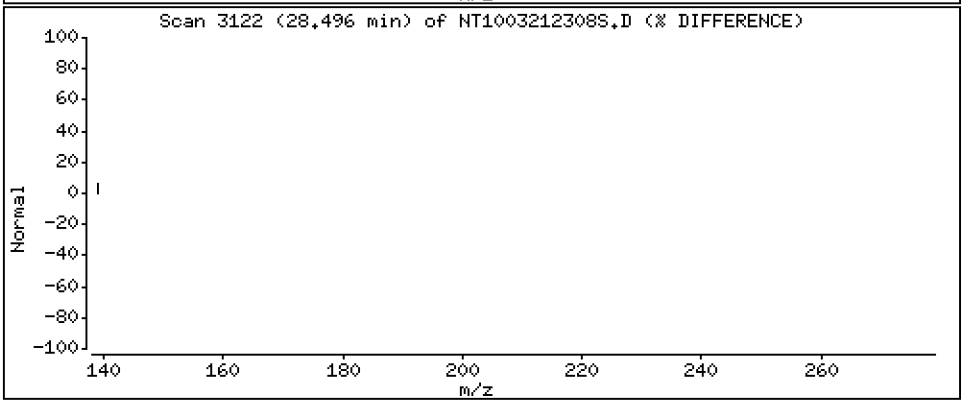












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT10032123085.D

Date : 21-MAR-2023 21:39

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-BSD2

Volume Injected (uL): 1.0

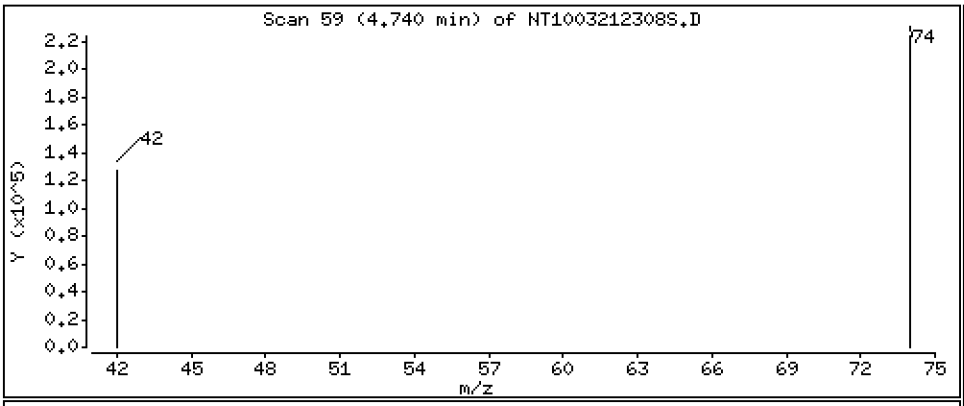
Operator: JGR

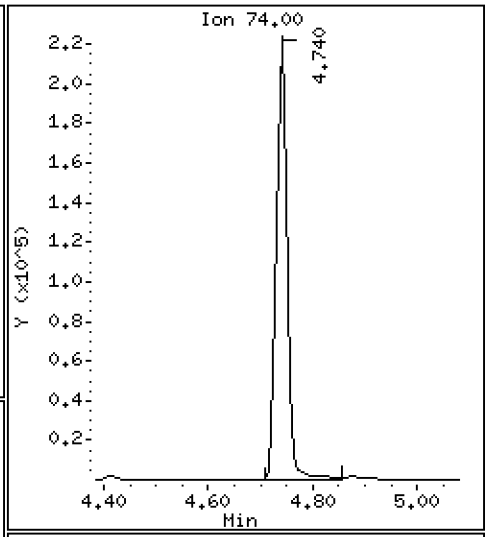
Column phase: ZB-5msi

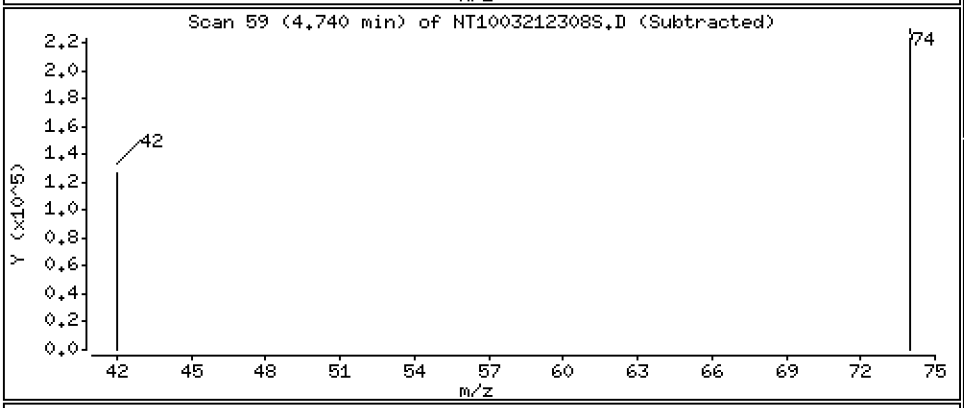
Column diameter: 0.25

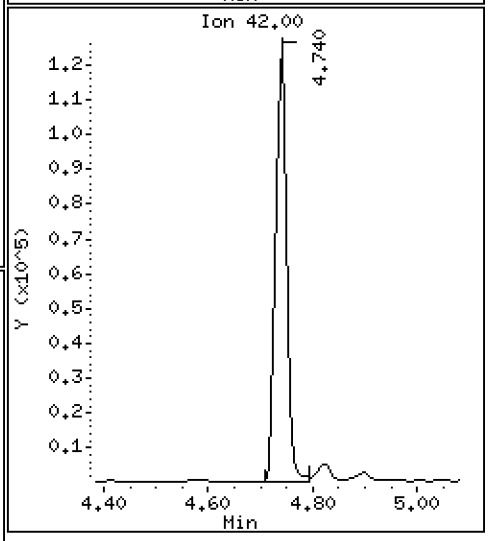
90 N-Nitrosodimethylamine

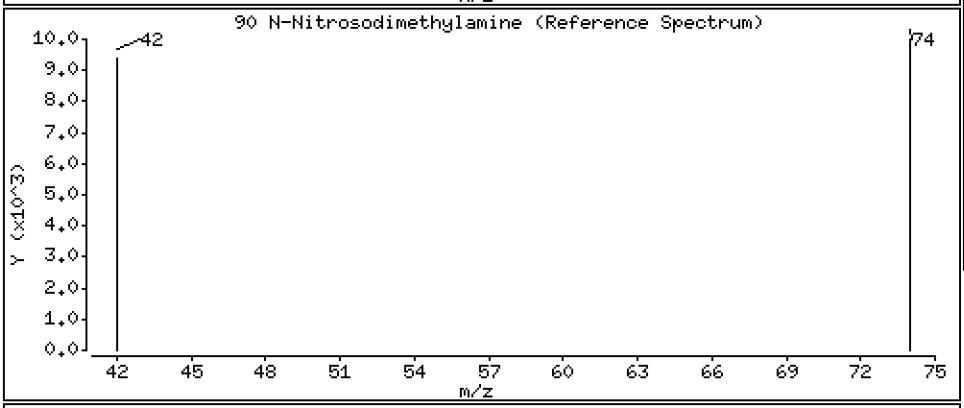
Concentration: 8.126 ug/L

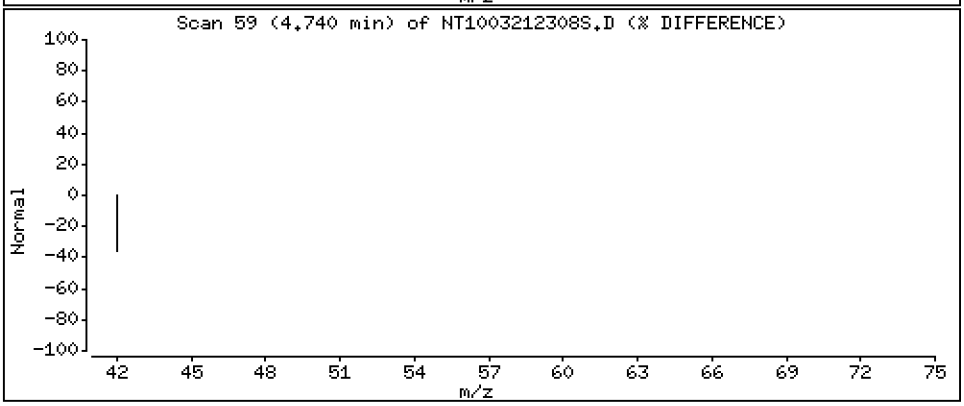












ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212308S.D
Lab Smp Id: BLC0109-BSD2
Inj Date : 21-MAR-2023 21:39 MS Autotune Date: 16-JAN-2023 17:42
Operator : JGR Inst ID: nt10.i
Smp Info : BLC0109-BSD2
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230321.b\20230321.b\SIMABN2.m
Meth Date : 29-Mar-2023 09:55 van Quant Type: ISTD
Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
$ 1	2-Fluorophenol	112	6.895	6.895	(0.757)	344769	5.66189	5.662(R)
3	Phenol	94	8.494	8.494	(0.933)	313767	3.75583	3.756
7	1,3-Dichlorobenzene	146	9.043	9.043	(0.993)	302929	3.87514	3.875
* 8	1,4-Dichlorobenzene-d4	152	9.105	9.105	(1.000)	200804	4.00000	
9	1,4-Dichlorobenzene	146	9.136	9.136	(1.003)	302258	4.00543	4.005
11	Benzyl alcohol	79	9.377	9.377	(1.030)	196152	4.05005	4.050
12	1,2-Dichlorobenzene	146	9.493	9.493	(1.043)	295441	3.98100	3.981
13	2-Methylphenol	108	9.602	9.602	(1.055)	188304	3.25298	3.253
15	4-Methylphenol	108	9.874	9.874	(1.084)	227082	3.77520	3.775
16	N-Nitroso-di-n-propylamine	70	9.928	9.936	(1.090)	167792	3.94442	3.944
22	2,4-Dimethylphenol	107	10.906	10.914	(0.942)	155336	2.47097	2.471
24	Benzoic acid	105	11.144	11.042	(0.963)	1202338	30.2331	30.23
26	1,2,4-Trichlorobenzene	180	11.492	11.500	(0.993)	251839	3.98228	3.982
* 27	Naphthalene-d8	136	11.577	11.585	(1.000)	727283	4.00000	
30	Hexachlorobutadiene	225	11.979	11.987	(1.035)	161846	4.20943	4.209
39	Dimethylphthalate	163	14.695	14.695	(0.968)	592023	5.07078	5.071
* 42	Acenaphthene-d10	162	15.175	15.183	(1.000)	369971	4.00000	
50	Diethylphthalate	149	16.142	16.141	(1.064)	659837	5.45546	5.455
54	N-Nitrosodiphenylamine	169	16.520	16.520	(0.908)	378871	3.94815	3.948
57	Hexachlorobenzene	284	17.577	17.584	(0.966)	197774	4.60389	4.604

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	58 Pentachlorophenol	266	17.933	17.941	(0.986)	421065	15.9656	15.97
*	59 Phenanthrene-d10	188	18.196	18.196	(1.000)	715235	4.00000	
$	66 Terphenyl-d14	244	21.330	21.337	(0.918)	428360	4.33325	4.333(R)
	67 Butylbenzylphthalate	149	22.266	22.259	(0.958)	465037	5.46385	5.464
*	69 Chrysene-d12	240	23.234	23.234	(1.000)	606706	4.00000	
*	77 Perylene-d12	264	25.851	25.836	(1.000)	644800	4.00000	
	79 Dibenzo(a,h)anthracene	278	28.495	28.487	(1.102)	908101	4.40044	4.400
	90 N-Nitrosodimethylamine	74	4.740	4.732	(0.521)	313849	8.12649	8.126

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1003212308S.D
Lab Smp Id: BLC0109-BSD2
Analysis Type: SV
Quant Type: ISTD
Operator: JGR
Method File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\SIMABN2.m
Misc Info:

Calibration Date: 21-MAR-2023
Calibration Time: 18:25
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	162628	81314	325256	200804	23.47
27 Naphthalene-d8	580280	290140	1160560	727283	25.33
42 Acenaphthene-d10	297255	148628	594510	369971	24.46
59 Phenanthrene-d10	561093	280547	1122186	715235	27.47
69 Chrysene-d12	498827	249414	997654	606706	21.63
77 Perylene-d12	558480	279240	1116960	644800	15.46

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.11	8.61	9.61	9.11	0.00
27 Naphthalene-d8	11.59	11.09	12.09	11.58	-0.07
42 Acenaphthene-d10	15.18	14.68	15.68	15.18	-0.05
59 Phenanthrene-d10	18.20	17.70	18.70	18.20	0.00
69 Chrysene-d12	23.23	22.73	23.73	23.23	0.00
77 Perylene-d12	25.84	25.34	26.34	25.85	0.06

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

REVIEW SUMMARY FOR FILE - NT1003212308S.D

Lab ID: BLC0109-BSD2
nt10.i, 20230321.b\20230321.b\SIMABN2.m,   21-MAR-2023 21:39

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.963	0.953	0.0094	Benzoic acid

RRT check based on Ccal File: 20230321.b/NT1003212303S.D

On Column LOD for nt10.i, 20230321.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

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

MS / MS DUPLICATE RECOVERY
EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Matrix:	Solid	Analyzed:	03/22/23 02:08
Batch:	BLC0109	Laboratory ID:	BLC0109-MS2
Preparation:	EPA 3546 (Microwave)	Sequence Name:	Matrix Spike
Initial/Final:	20 g / 1 mL	Source Sample:	LDW23-SS1048

COMPOUND	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	Q	MS CONCENTRATION (ug/kg dry)	Q	MS % REC. #	QC LIMITS REC.
1,4-Dichlorobenzene	500	1.4	J	350		69.7	36 - 120
1,2-Dichlorobenzene	500	0.9	J	348		69.4	36 - 120
Benzyl Alcohol	500	60.6		445		76.8	25 - 123
Benzoic acid	2300	110		1750		71.1	10 - 160
2,4-Dimethylphenol	1300	ND	U	319		24.6	10 - 120
1,2,4-Trichlorobenzene	500	ND	U	368		73.6	35 - 120
N-Nitrosodiphenylamine	500	ND	U	341		68.2	27 - 120
Pentachlorophenol	1300	2.7	J	1540		118	26 - 120

* Values outside of QC limits

MS / MS DUPLICATE RECOVERY
EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Matrix:	Solid	Analyzed:	03/22/23 02:46
Batch:	BLC0109	Laboratory ID:	BLC0109-MSD2
Preparation:	EPA 3546 (Microwave)	Sequence Name:	Matrix Spike Dup
Initial/Final:	20 g / 1 mL	Source Sample:	LDW23-SS1048

COMPOUND	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	Q	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,4-Dichlorobenzene	500	338		67.2	3.55	30	36 - 120
1,2-Dichlorobenzene	500	336		66.9	3.58	30	36 - 120
Benzyl Alcohol	500	437		75.2	1.80	30	25 - 123
Benzoic acid	2300	1590		64.5	9.19	30	10 - 160
2,4-Dimethylphenol	1300	207	*	15.9	42.7 *	30	10 - 120
1,2,4-Trichlorobenzene	500	358		71.6	2.73	30	35 - 120
N-Nitrosodiphenylamine	500	331		66.2	3.12	30	27 - 120
Pentachlorophenol	1300	1370		105	12.1	30	26 - 120

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT10032123158.D

Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

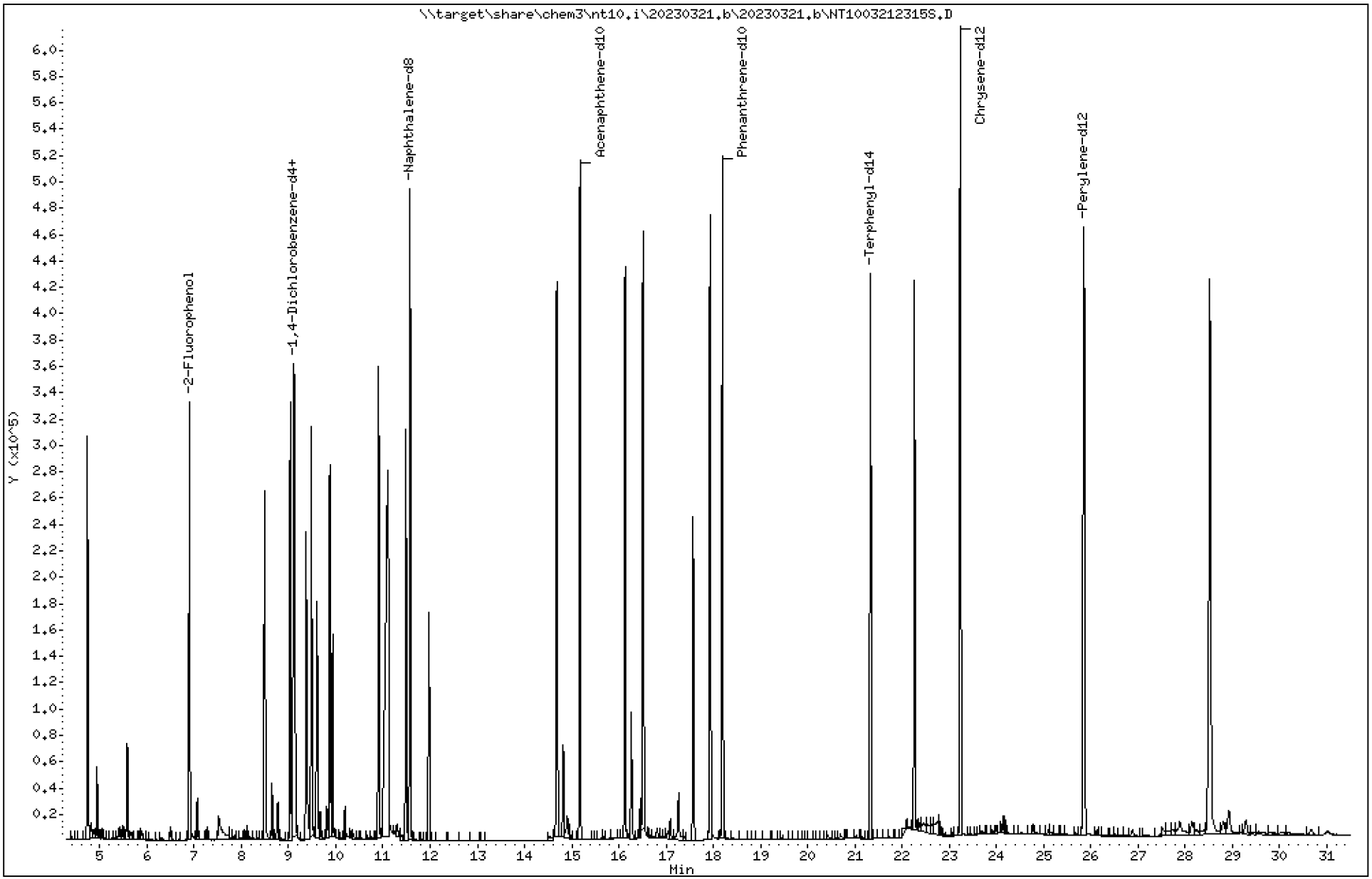
Sample Info: BLC0109-MS2

Volume Injected (uL): 1.0

Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25



Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212315S.D

Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS2

Volume Injected (uL): 1.0

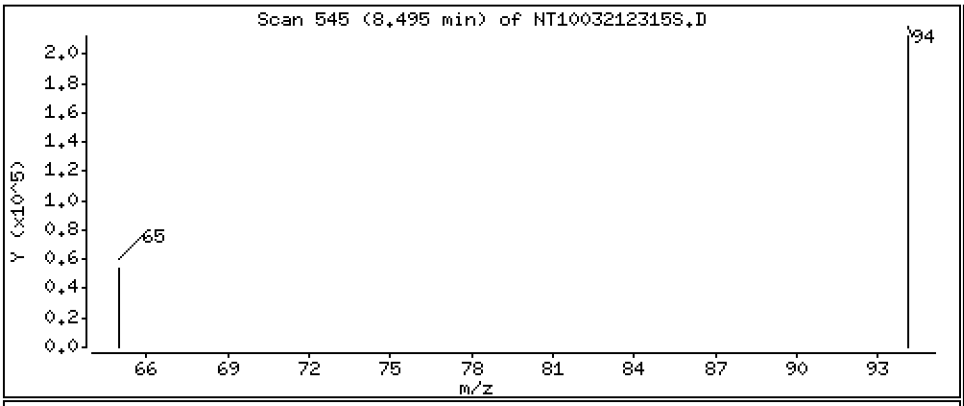
Operator: JGR

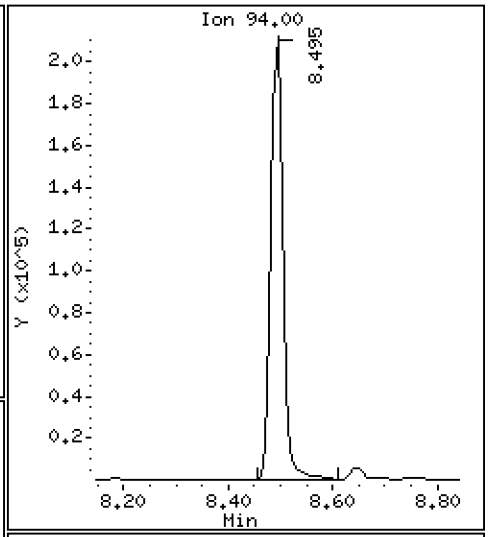
Column phase: ZB-5msi

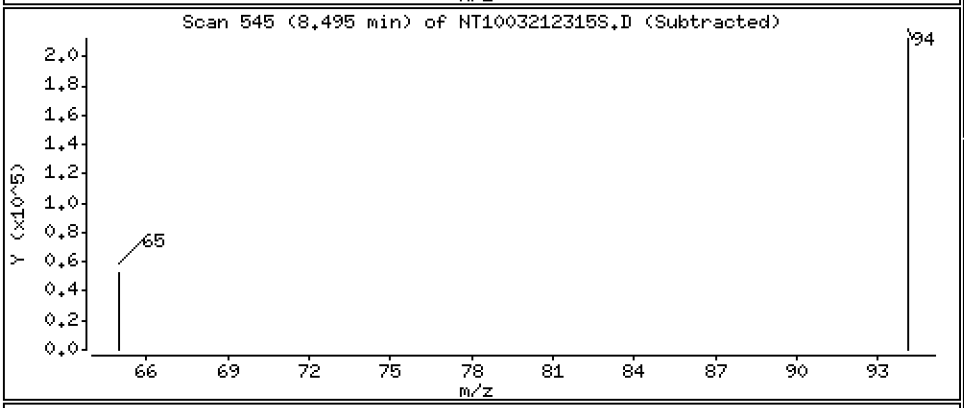
Column diameter: 0.25

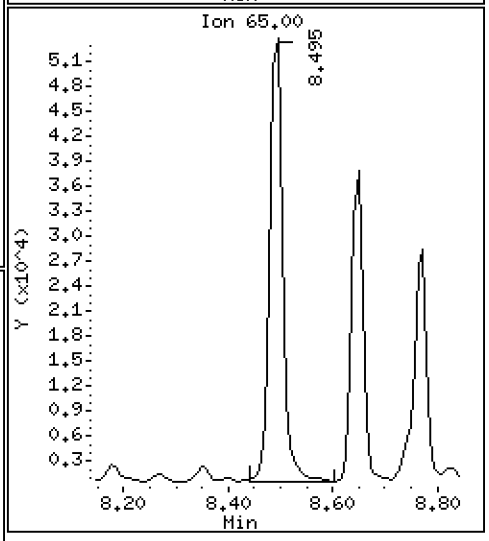
3 Phenol

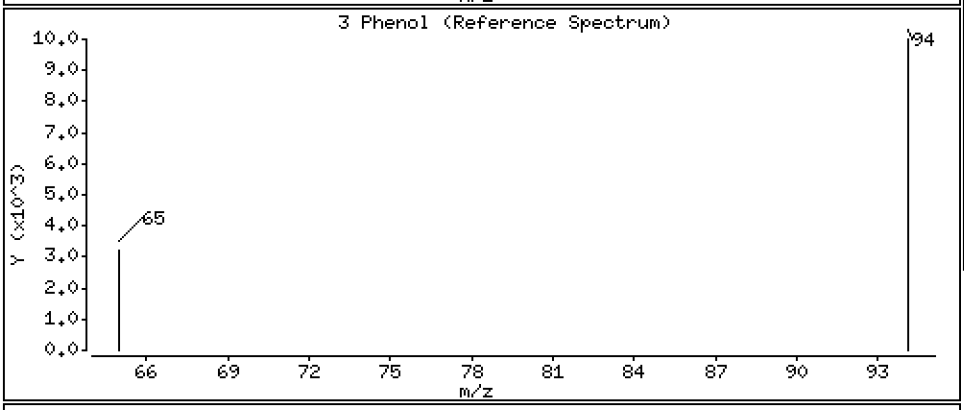
Concentration: 3.526 ug/L

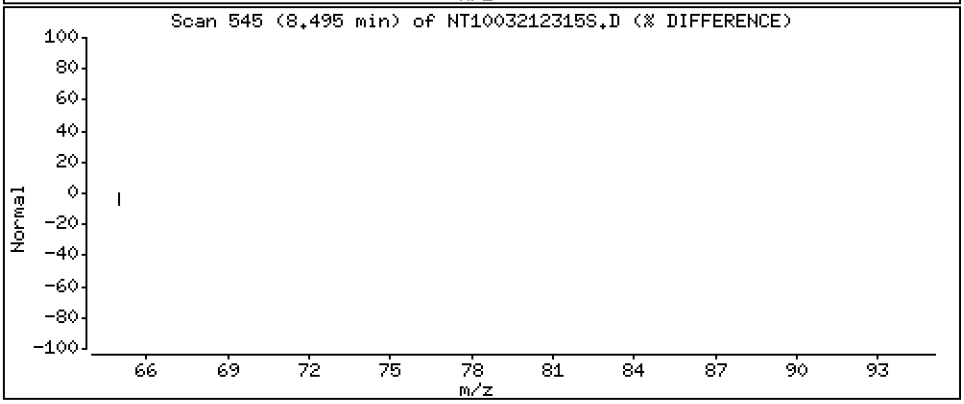












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212315S.D

Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS2

Volume Injected (uL): 1.0

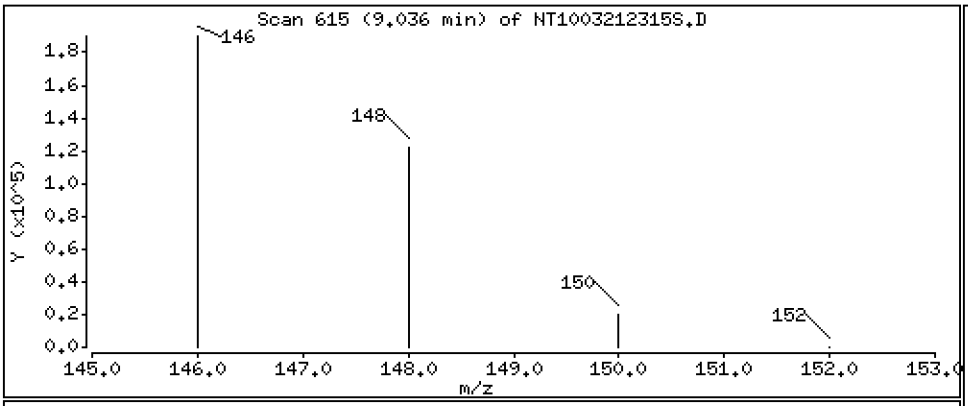
Operator: JGR

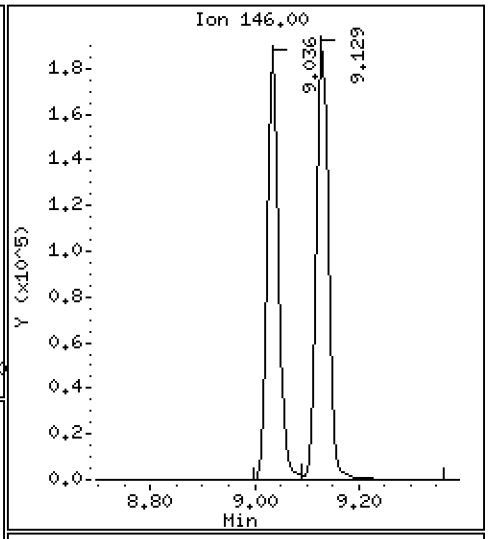
Column phase: ZB-5msi

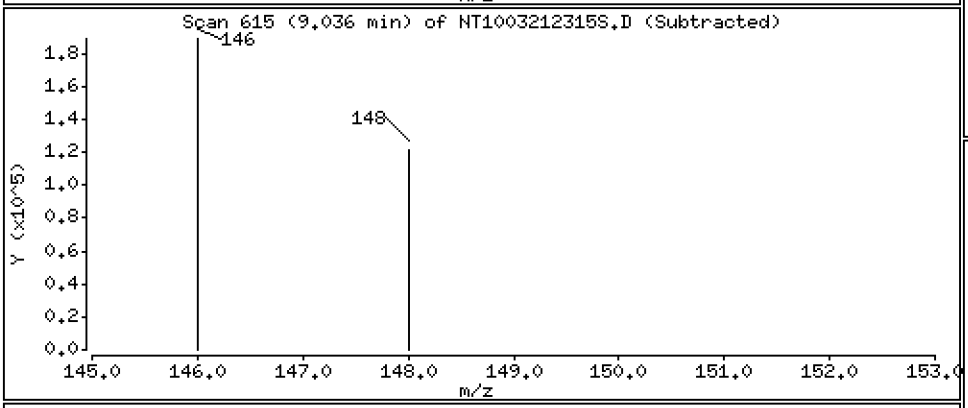
Column diameter: 0.25

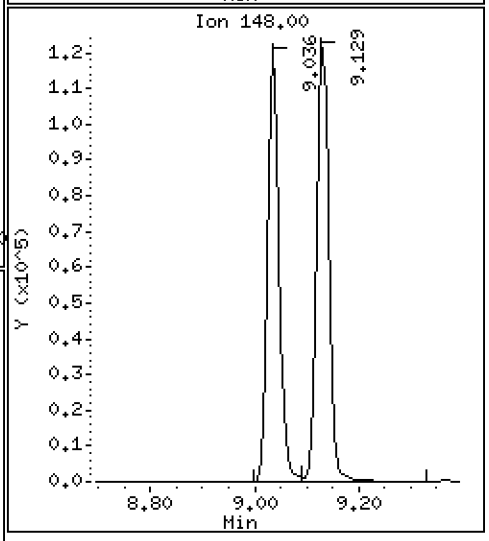
7 1,3-Dichlorobenzene

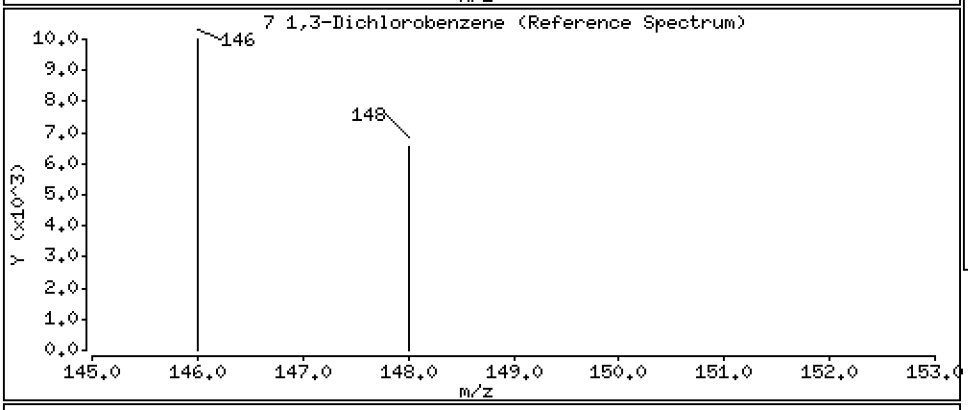
Concentration: 3.412 ug/L

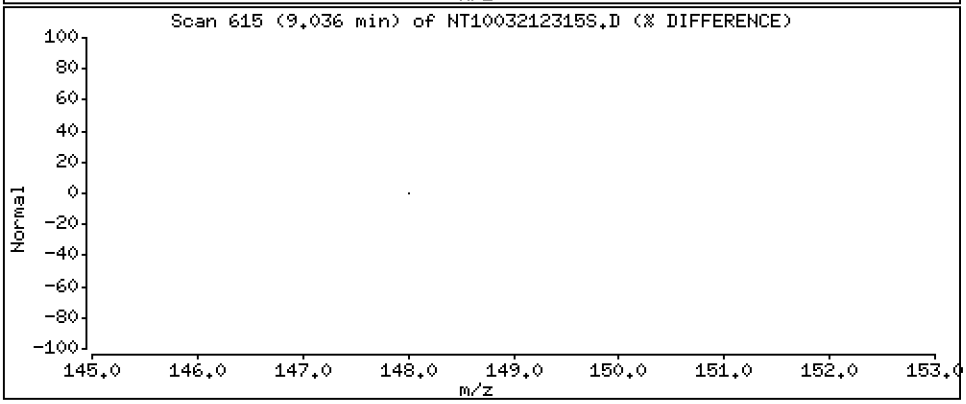












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212315S.D

Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS2

Volume Injected (uL): 1.0

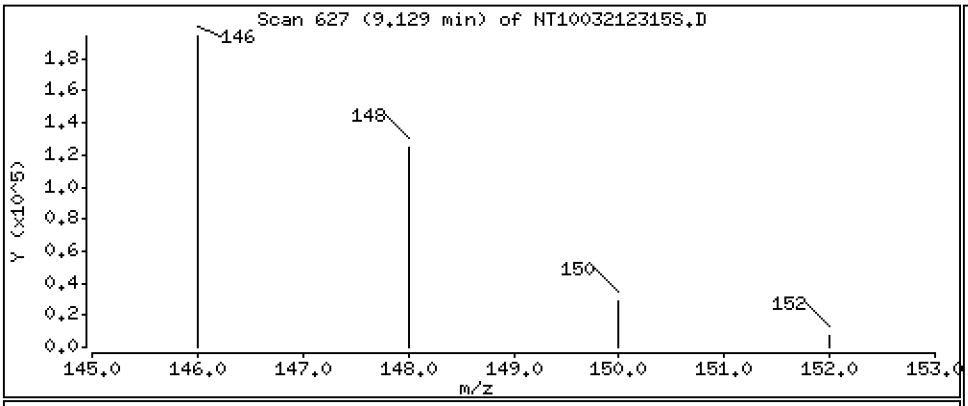
Operator: JGR

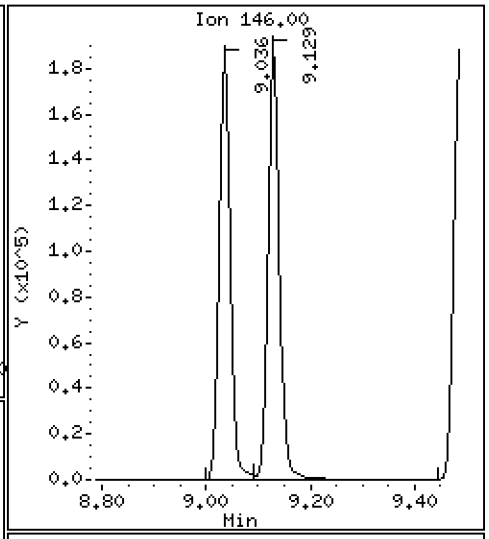
Column phase: ZB-5msi

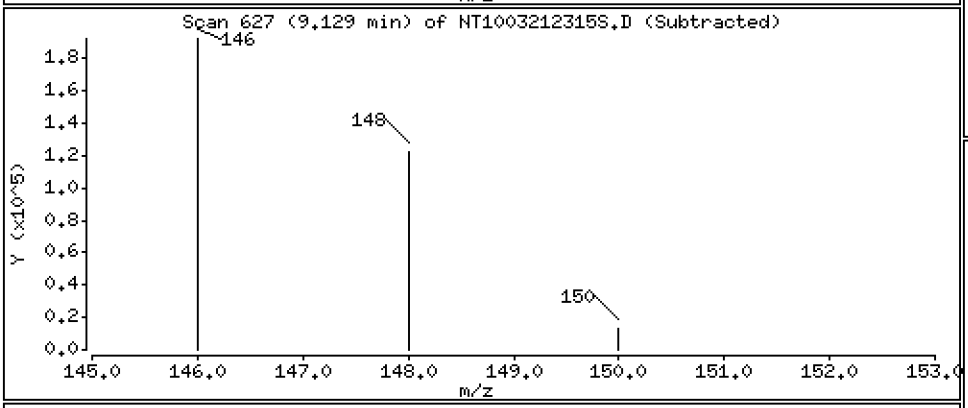
Column diameter: 0.25

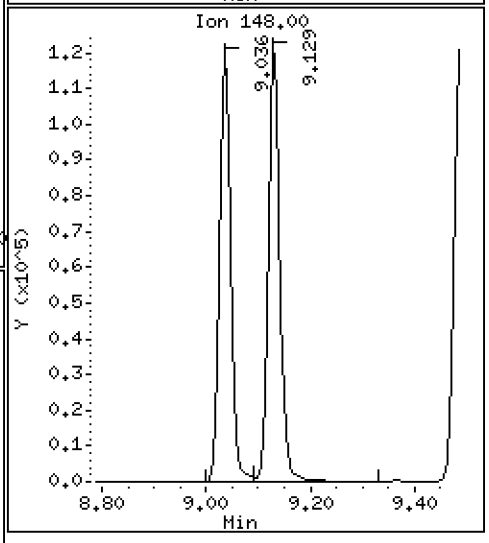
9 1,4-Dichlorobenzene

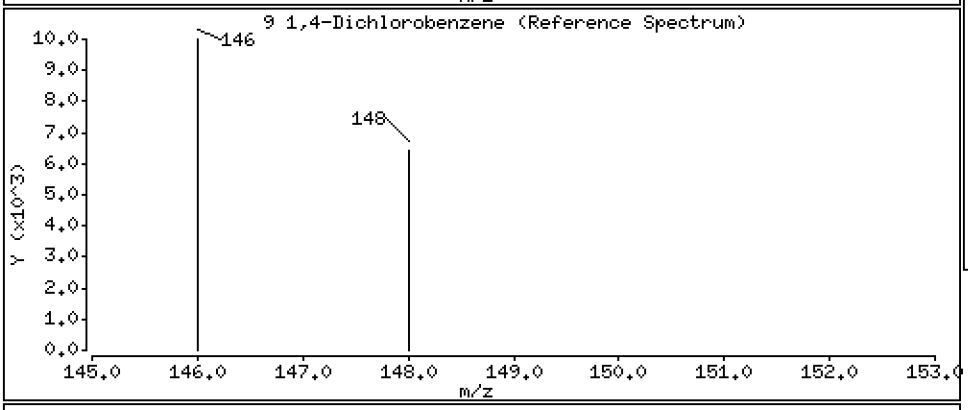
Concentration: 3.497 ug/L

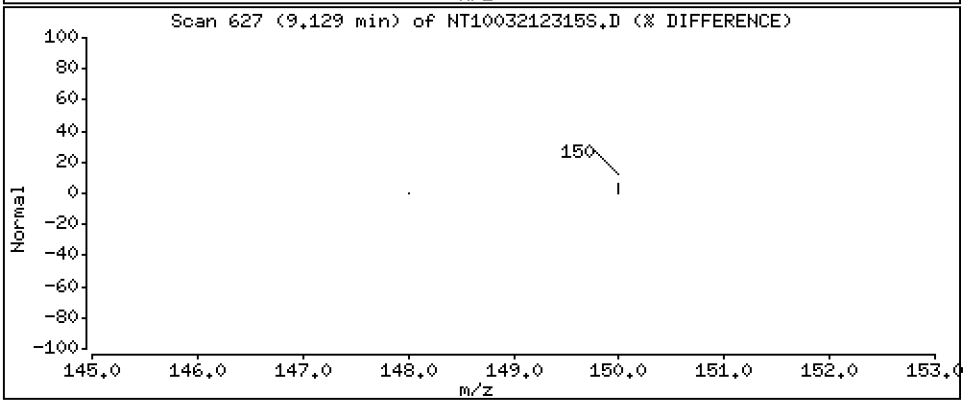












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212315S.D

Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS2

Volume Injected (uL): 1.0

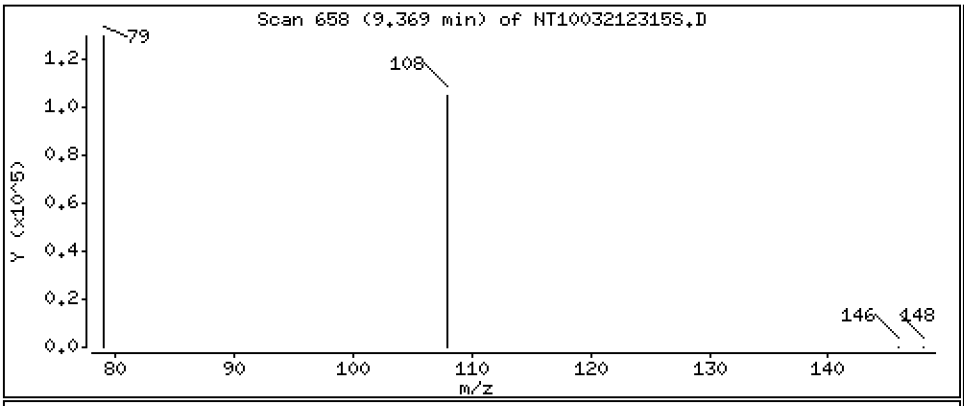
Operator: JGR

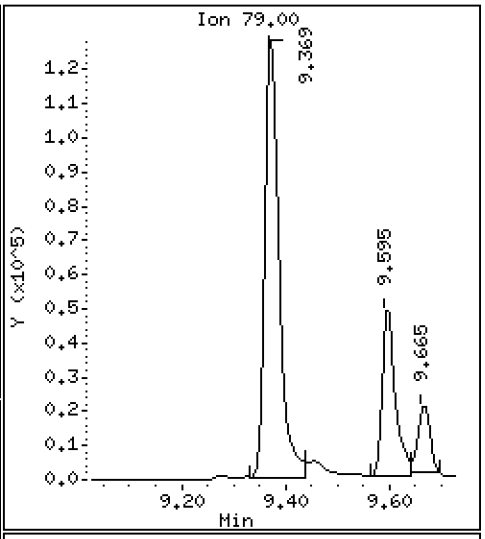
Column phase: ZB-5msi

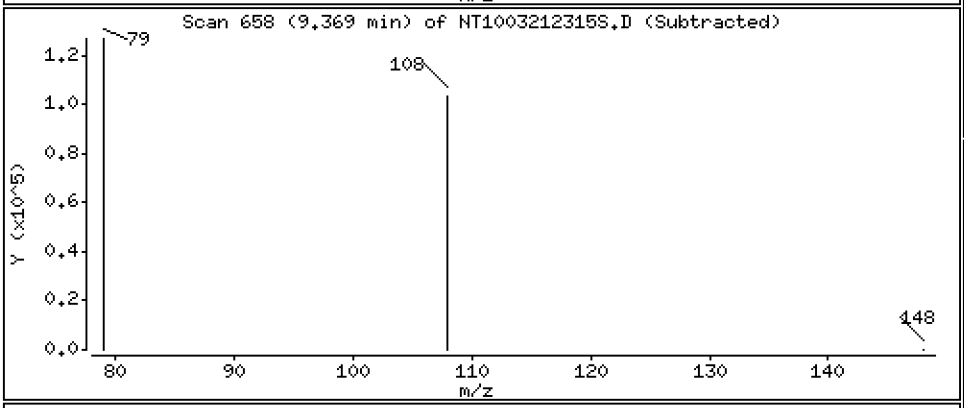
Column diameter: 0.25

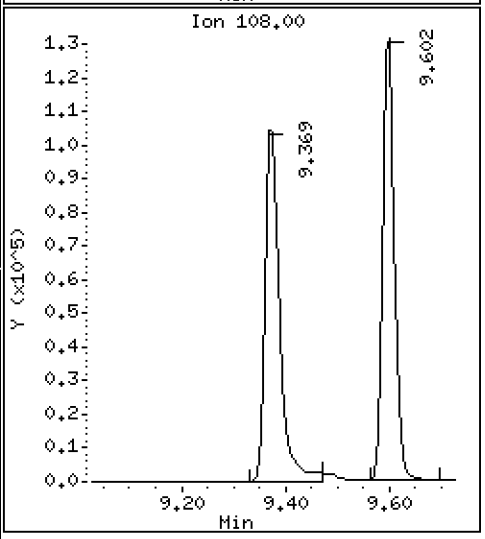
11 Benzyl alcohol

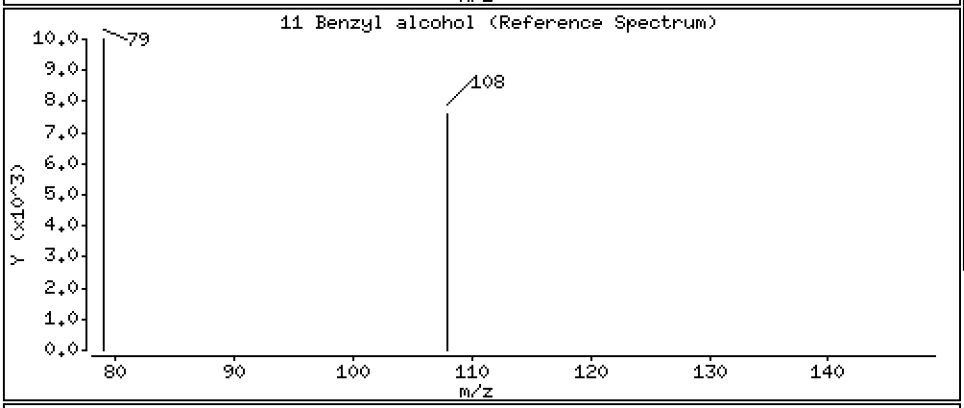
Concentration: 4.447 ug/L

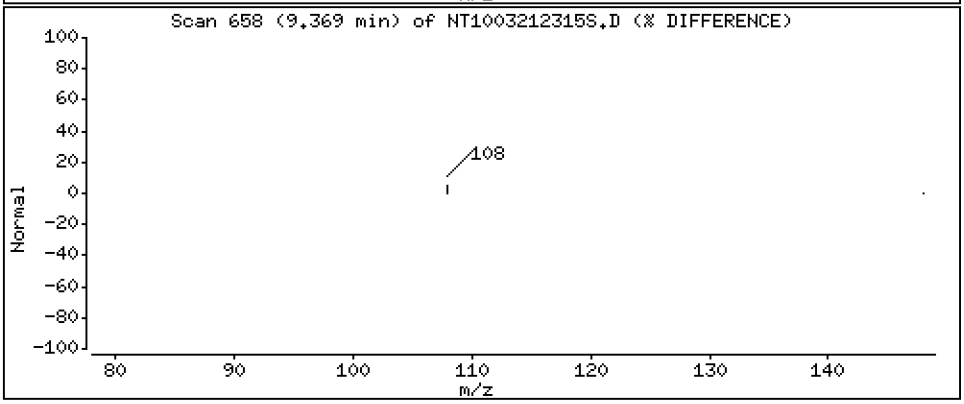












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212315S.D

Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS2

Volume Injected (uL): 1.0

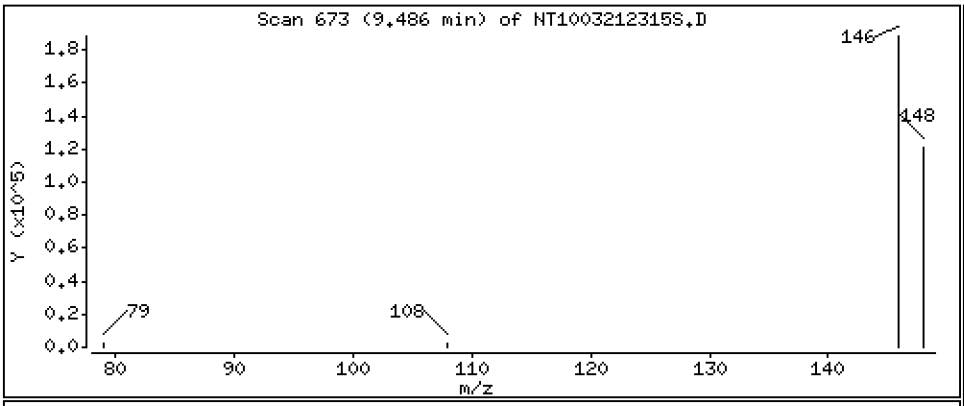
Operator: JGR

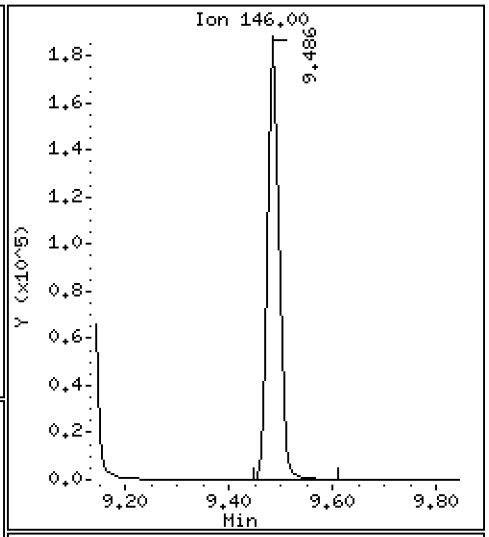
Column phase: ZB-5msi

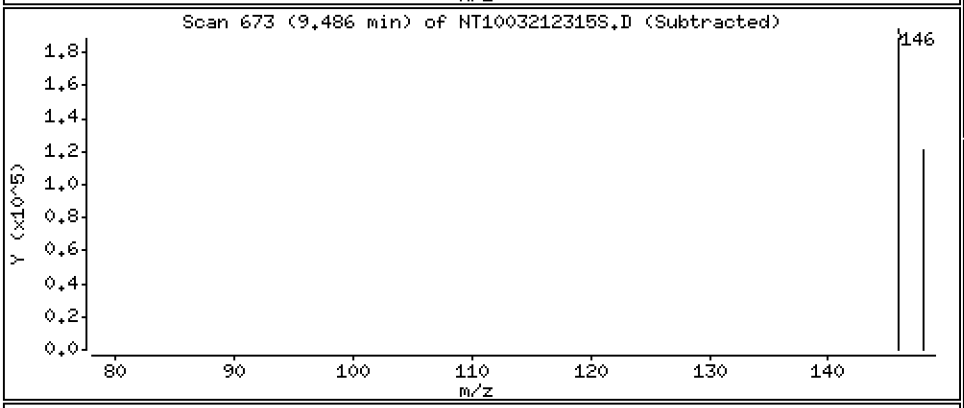
Column diameter: 0.25

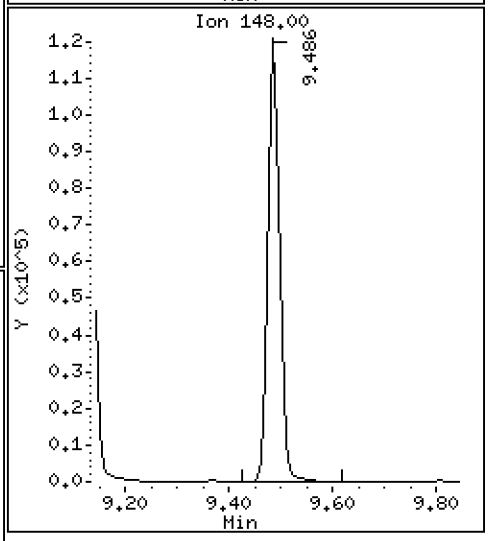
12 1,2-Dichlorobenzene

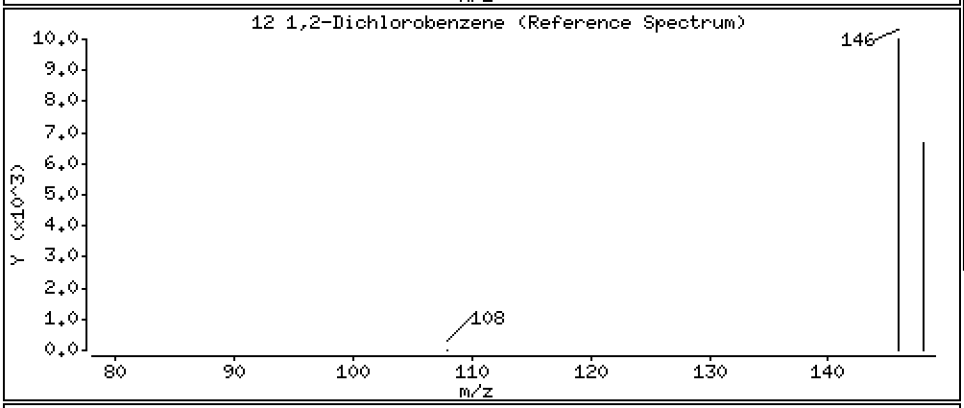
Concentration: 3.479 ug/L

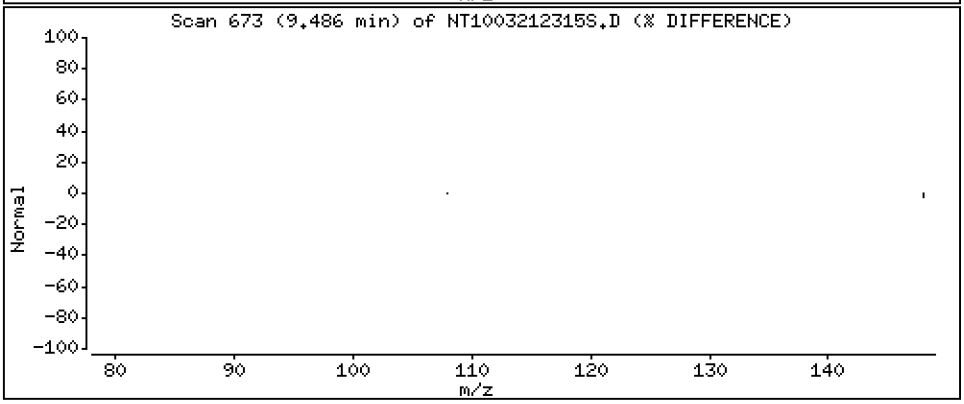












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT10032123155.D

Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS2

Volume Injected (uL): 1.0

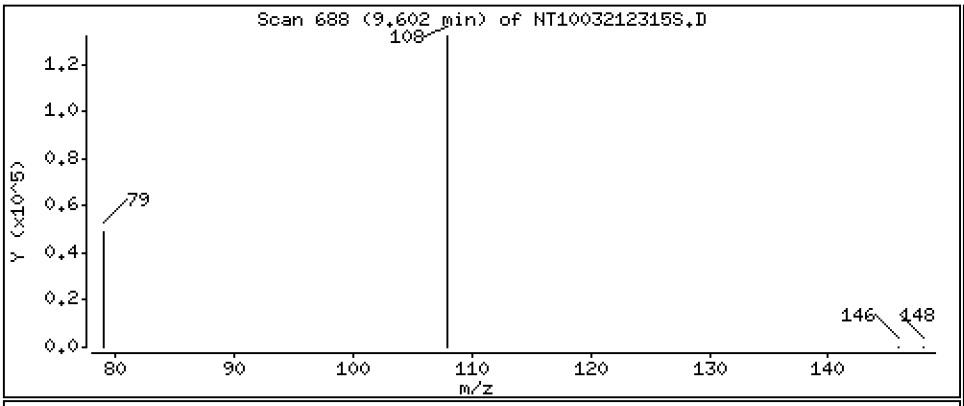
Operator: JGR

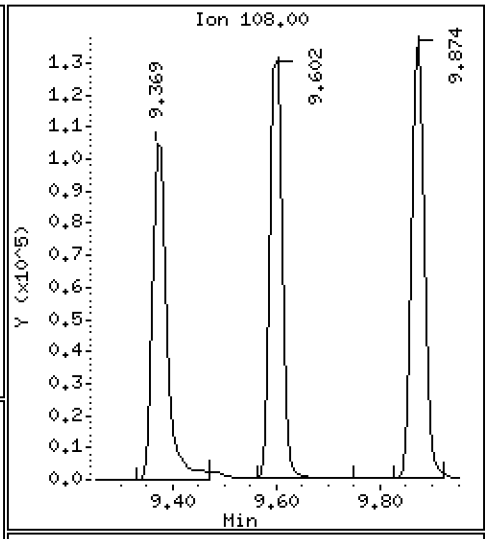
Column phase: ZB-5msi

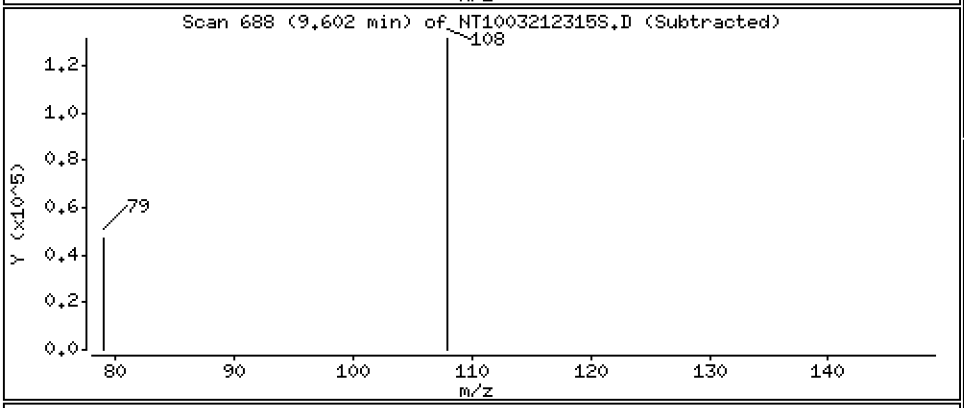
Column diameter: 0.25

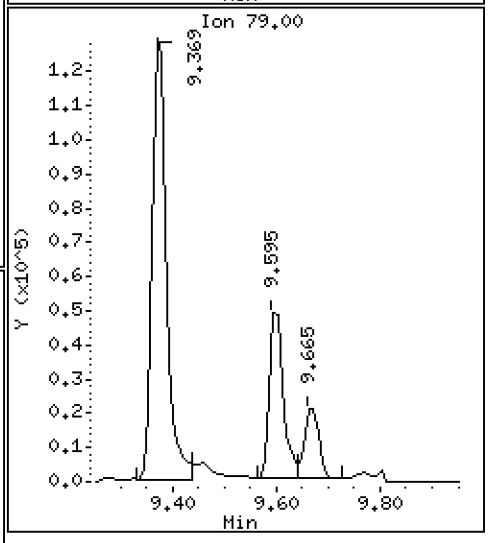
13 2-Methylphenol

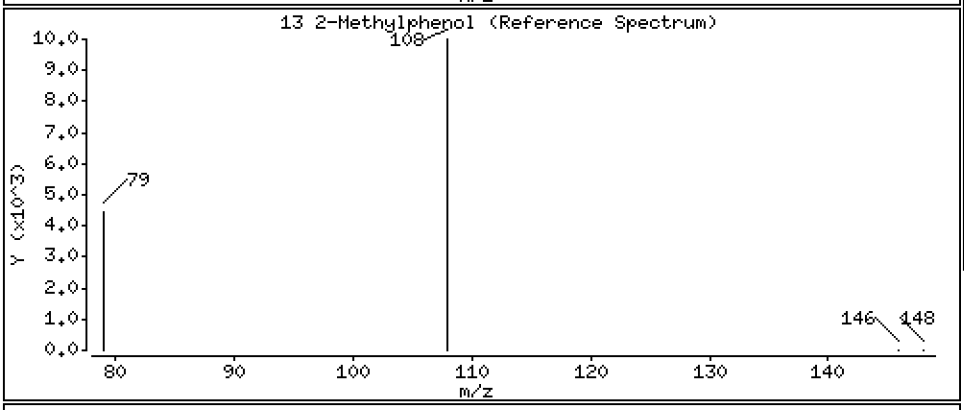
Concentration: 3.248 ug/L

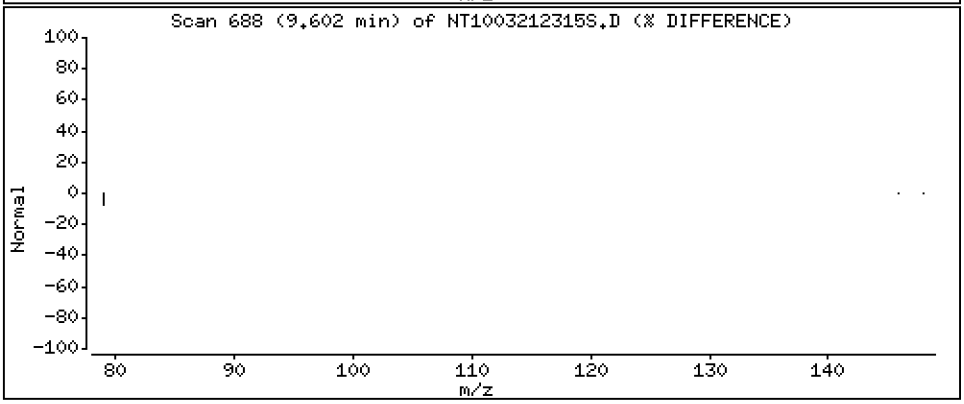












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212315S.D

Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS2

Volume Injected (uL): 1.0

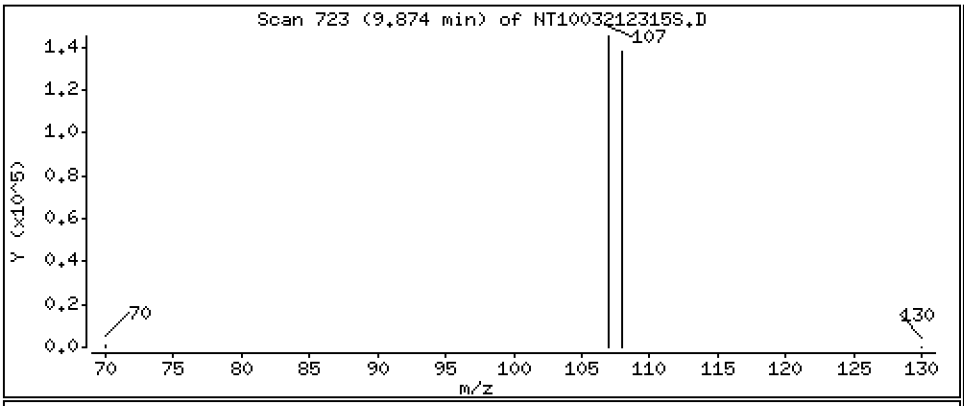
Operator: JGR

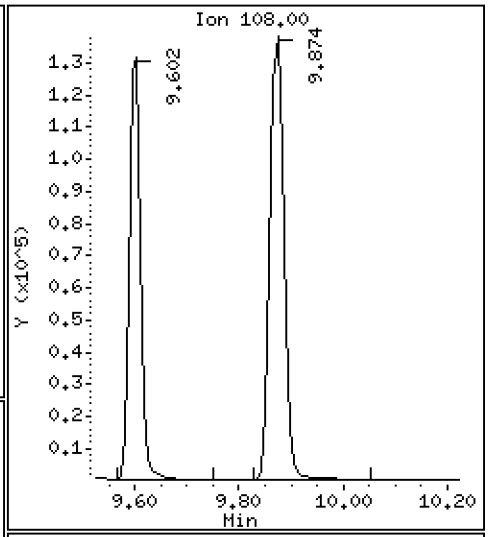
Column phase: ZB-5msi

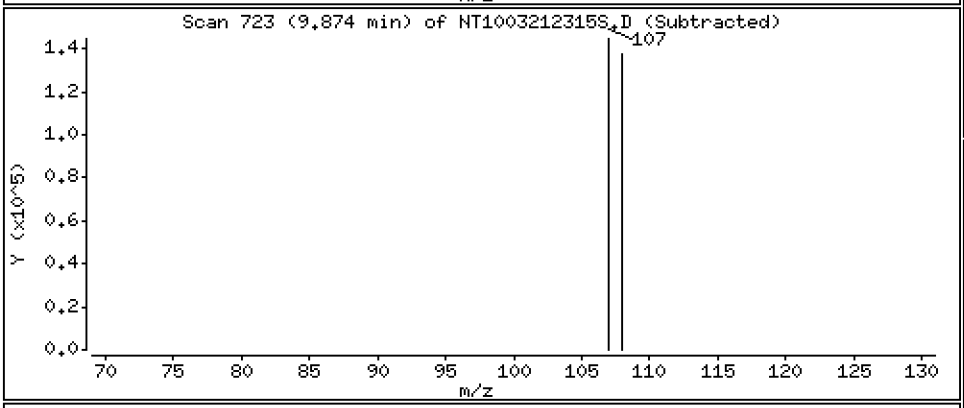
Column diameter: 0.25

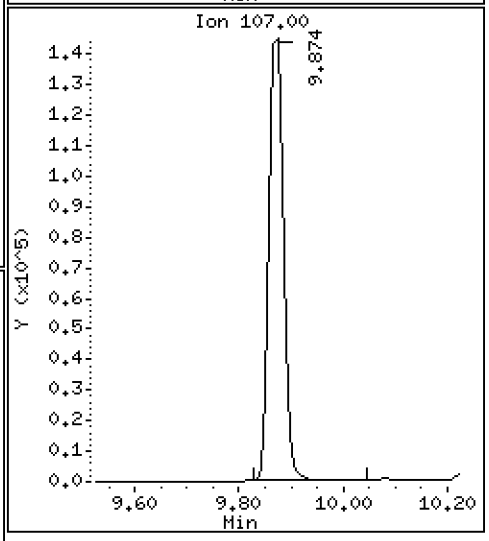
15 4-Methylphenol

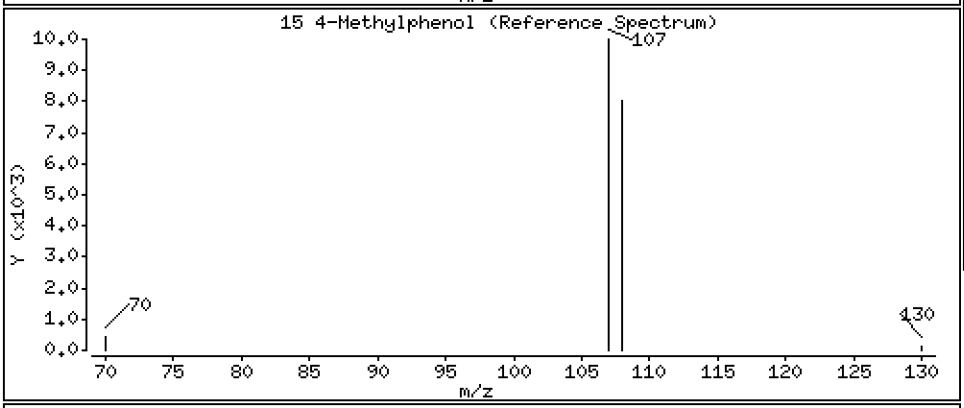
Concentration: 3.792 ug/L

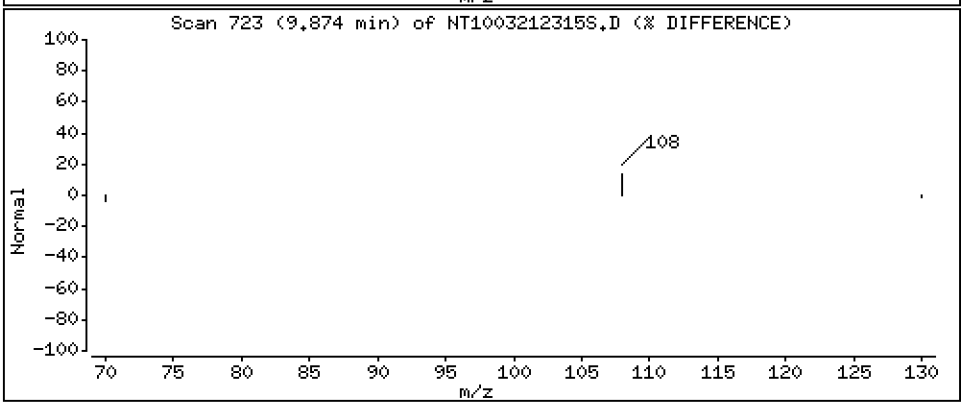












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212315S.D

Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS2

Volume Injected (uL): 1.0

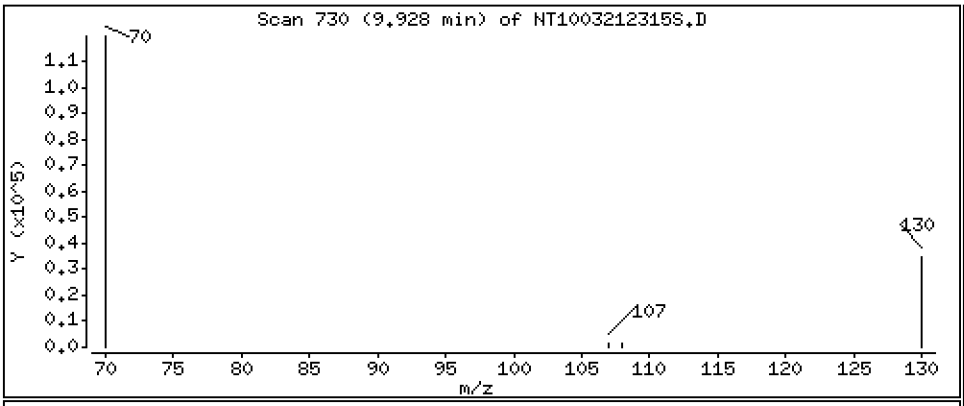
Operator: JGR

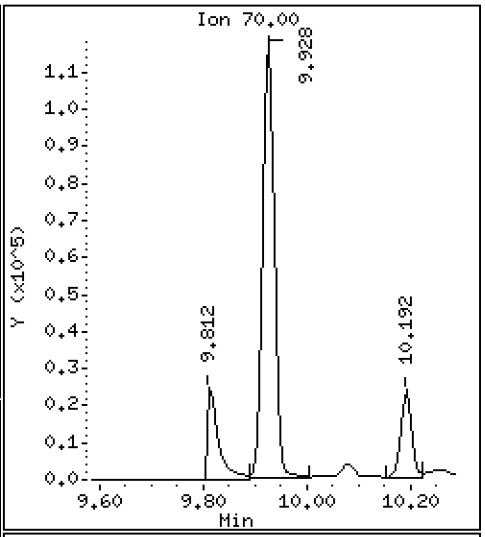
Column phase: ZB-5msi

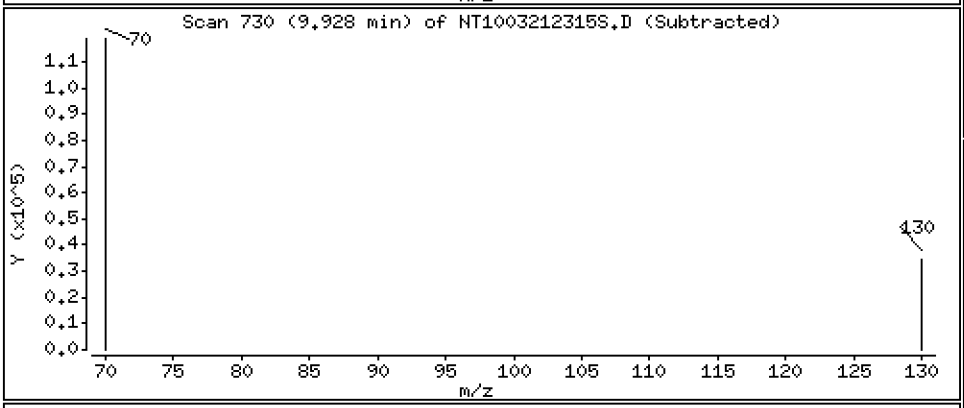
Column diameter: 0.25

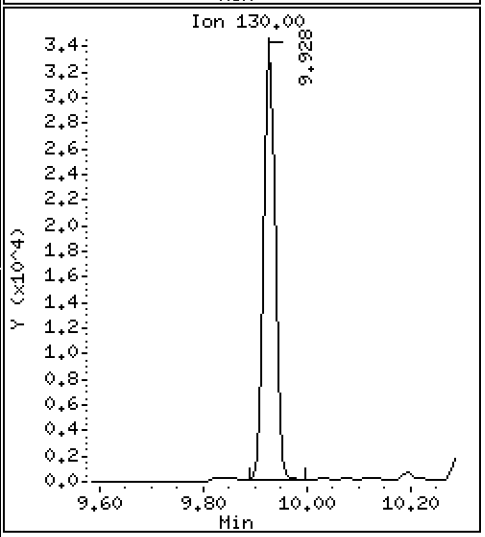
16 N-Nitroso-di-n-propylamine

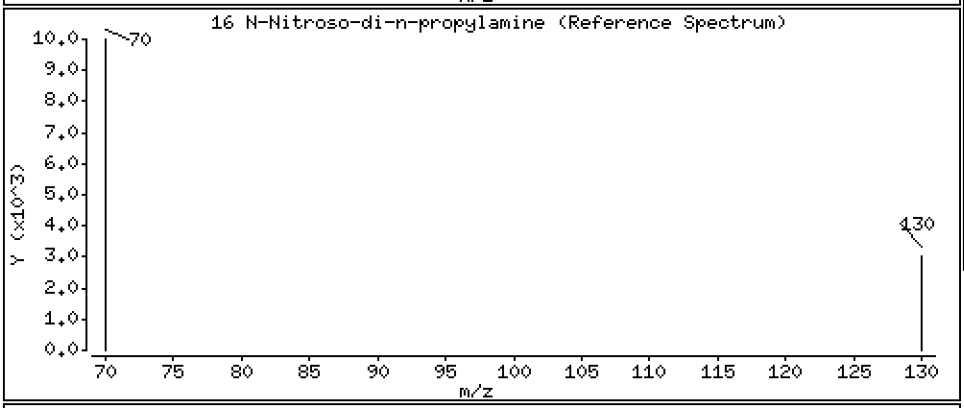
Concentration: 3.732 ug/L

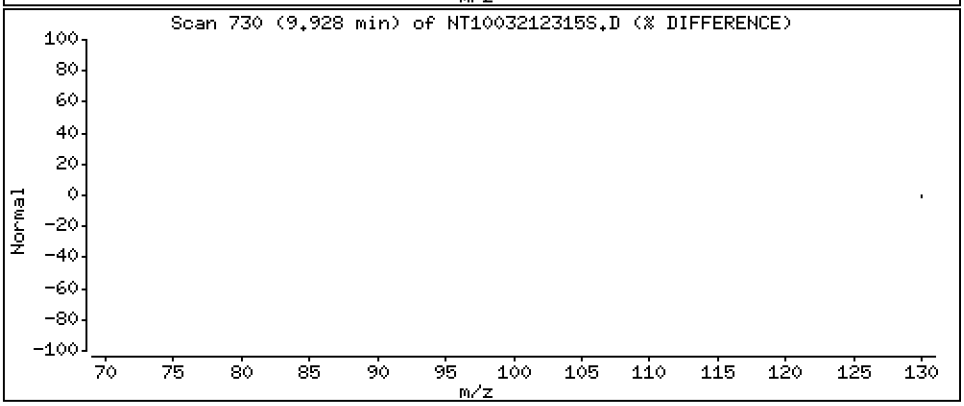












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT10032123155.D

Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS2

Volume Injected (uL): 1.0

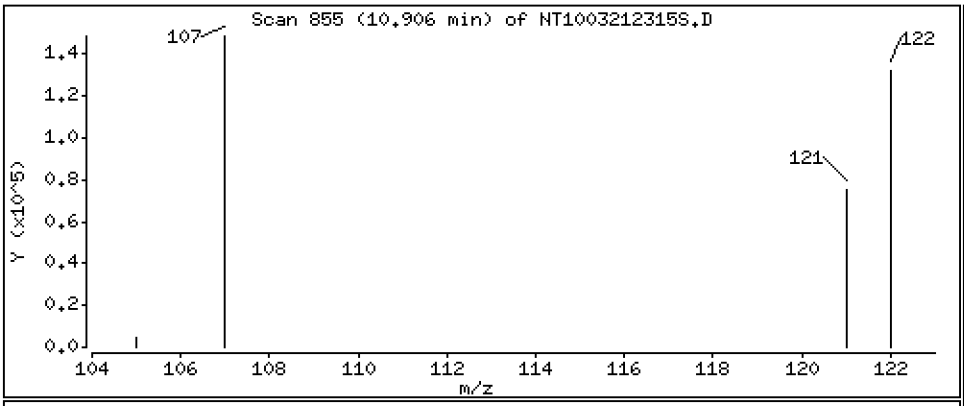
Operator: JGR

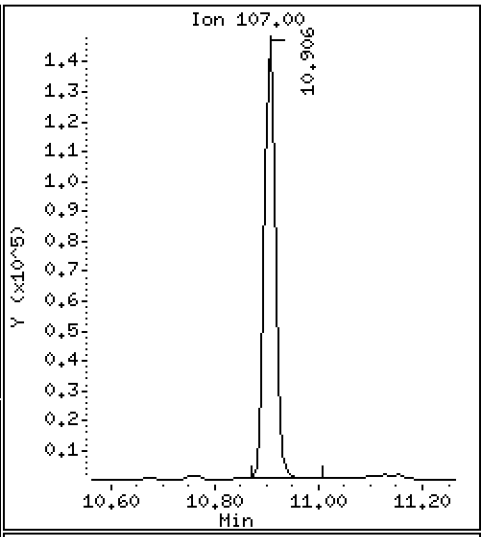
Column phase: ZB-5msi

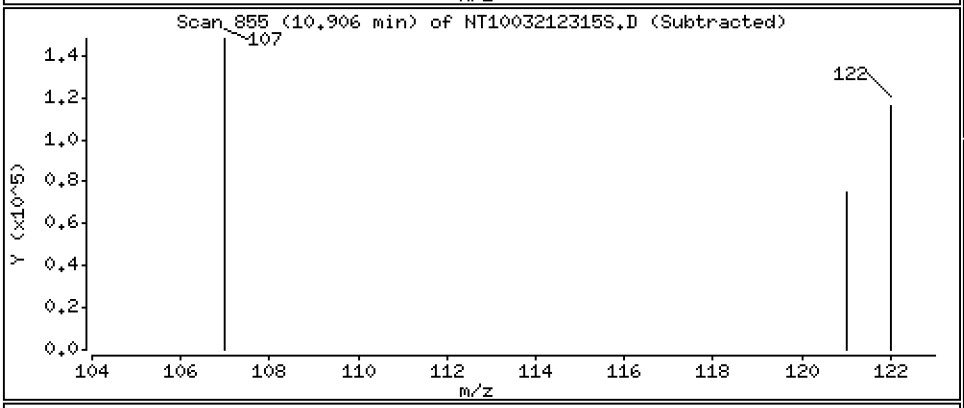
Column diameter: 0.25

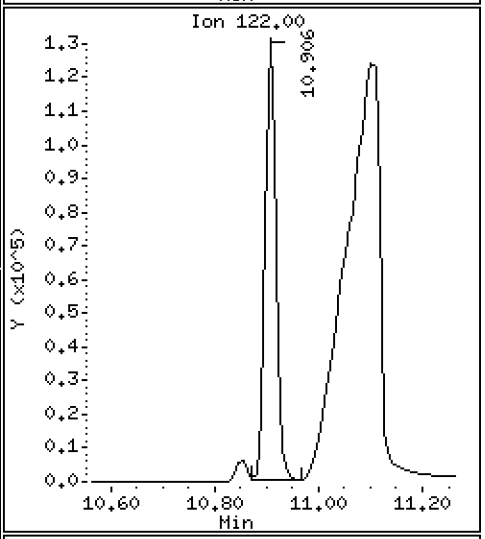
22 2,4-Dimethylphenol

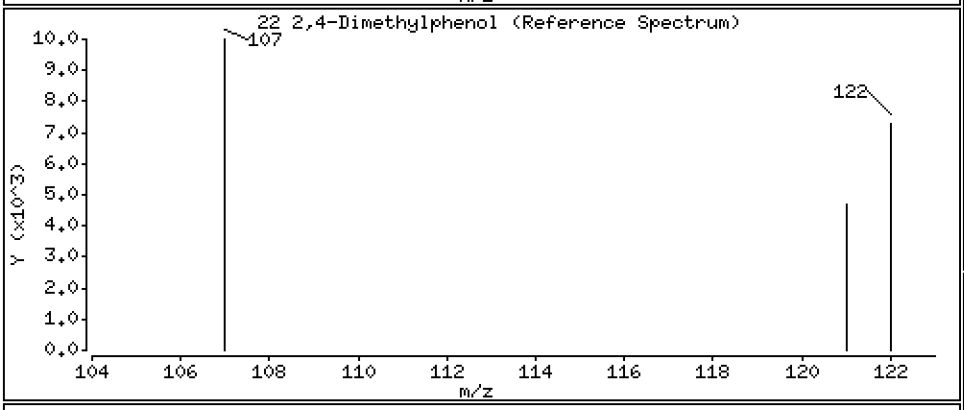
Concentration: 3.192 ug/L

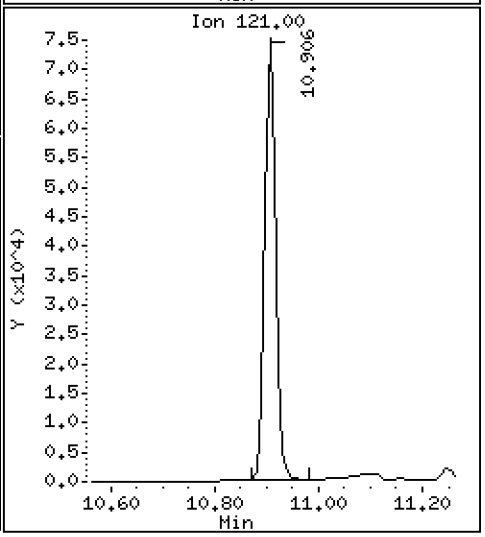


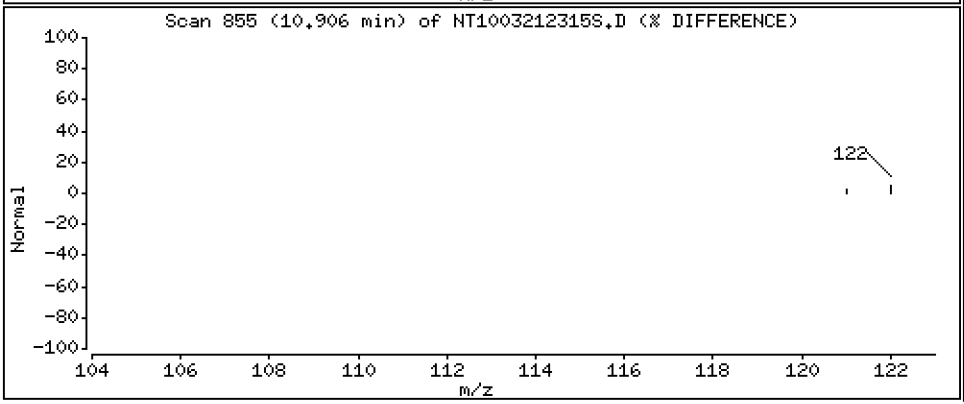












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT10032123155.D

Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS2

Volume Injected (uL): 1.0

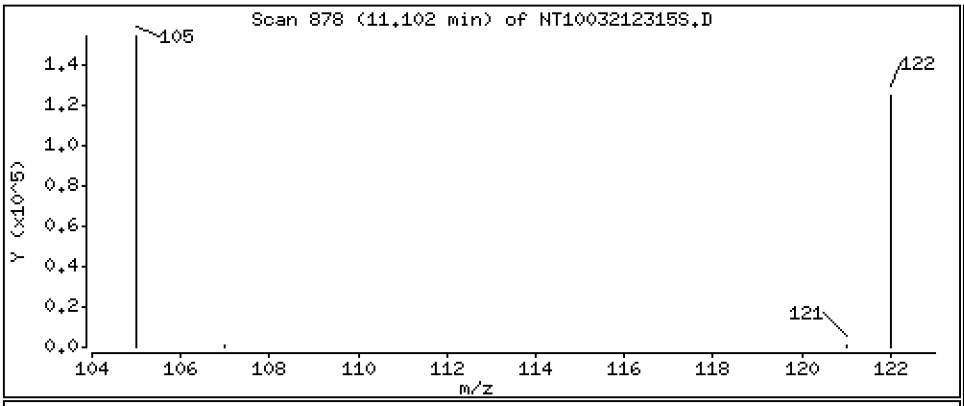
Operator: JGR

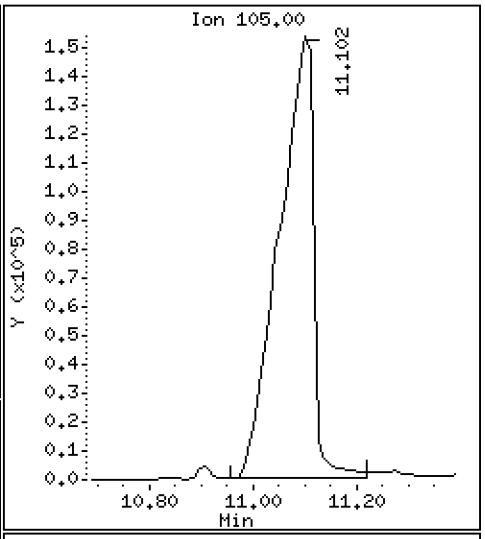
Column phase: ZB-5msi

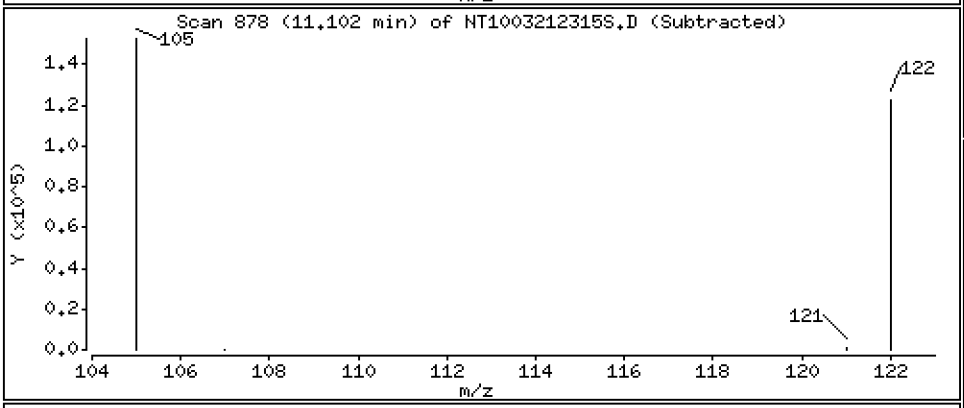
Column diameter: 0.25

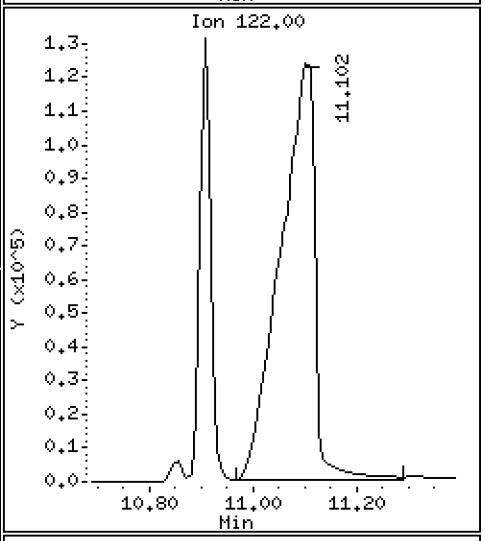
24 Benzoic acid

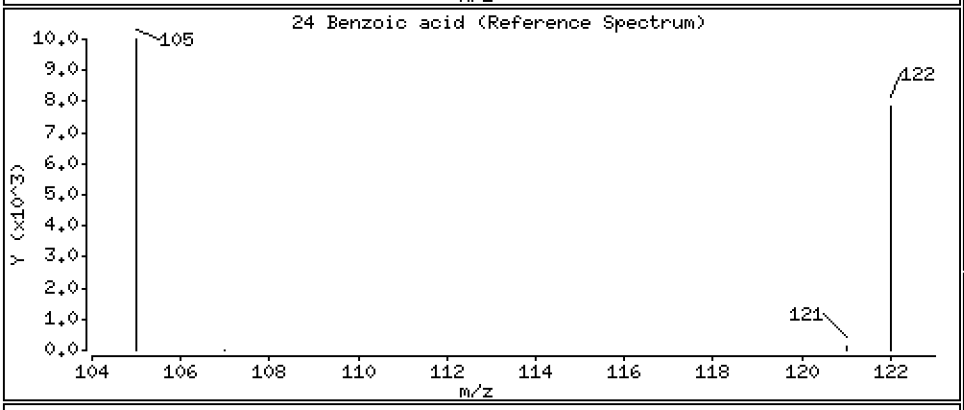
Concentration: 17.46 ug/L

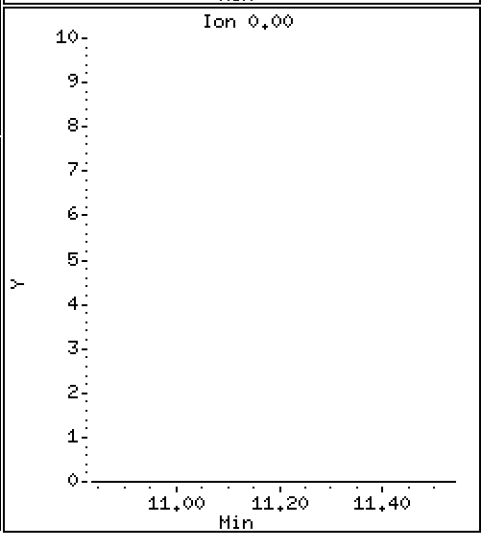


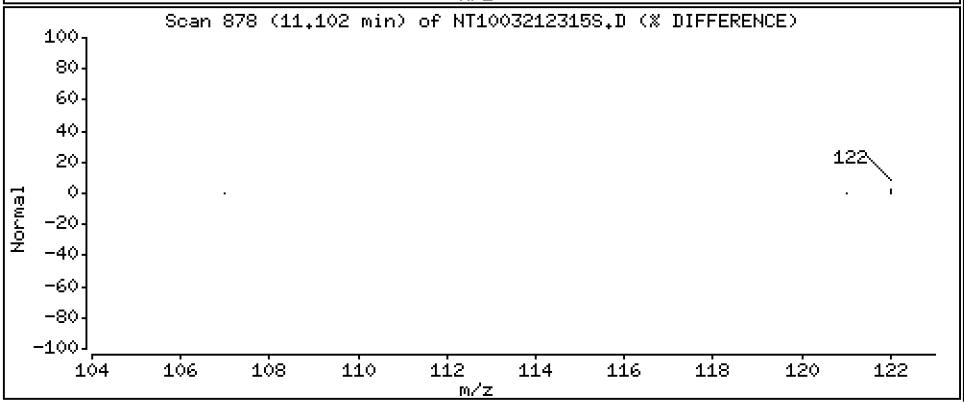












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212315S.D

Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS2

Volume Injected (uL): 1.0

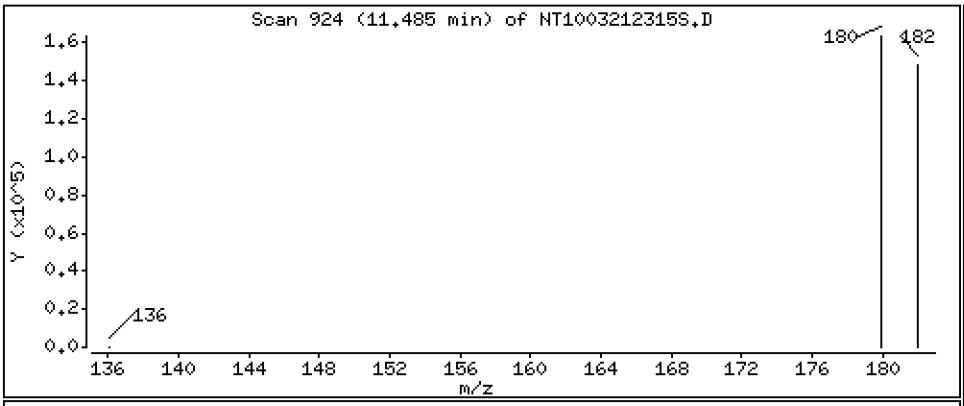
Operator: JGR

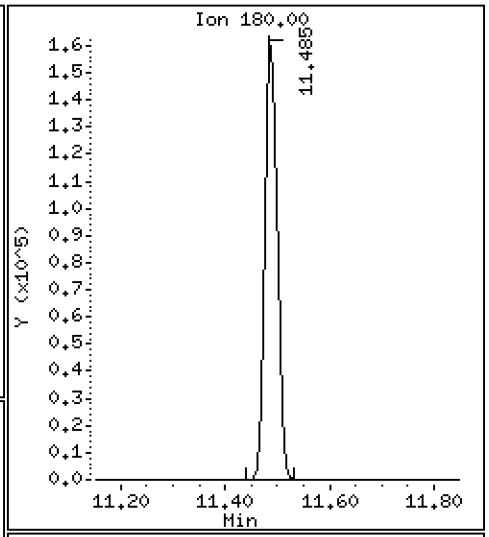
Column phase: ZB-5msi

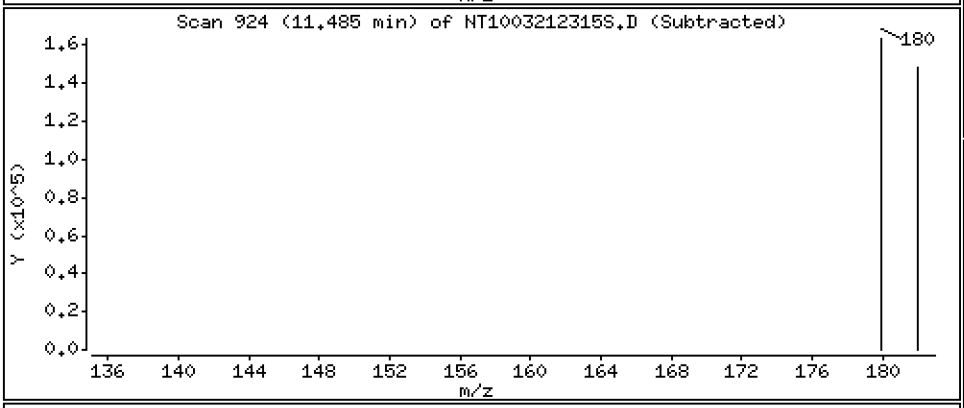
Column diameter: 0.25

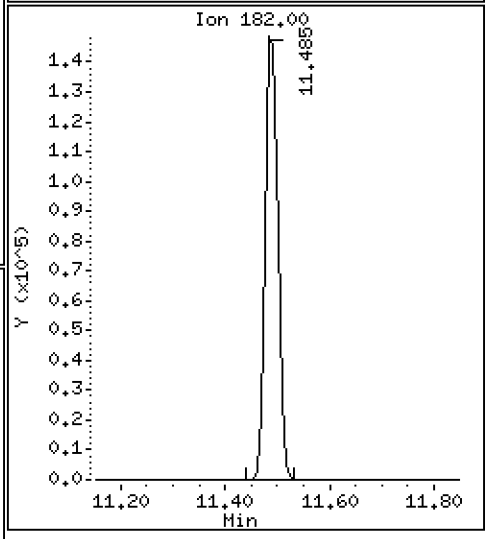
26 1,2,4-Trichlorobenzene

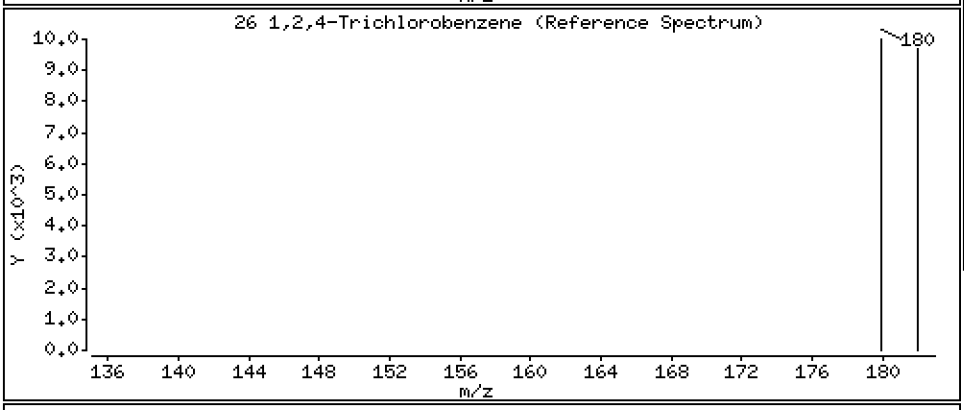
Concentration: 3.680 ug/L

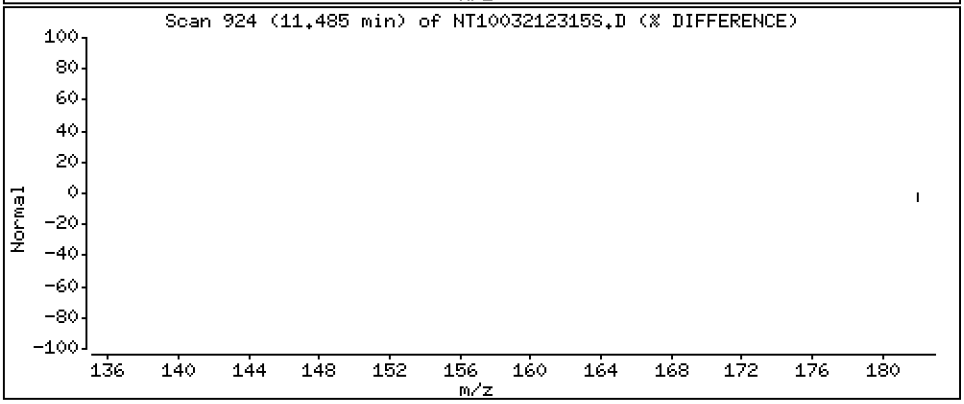












Date : 22-MAR-2023 02:08

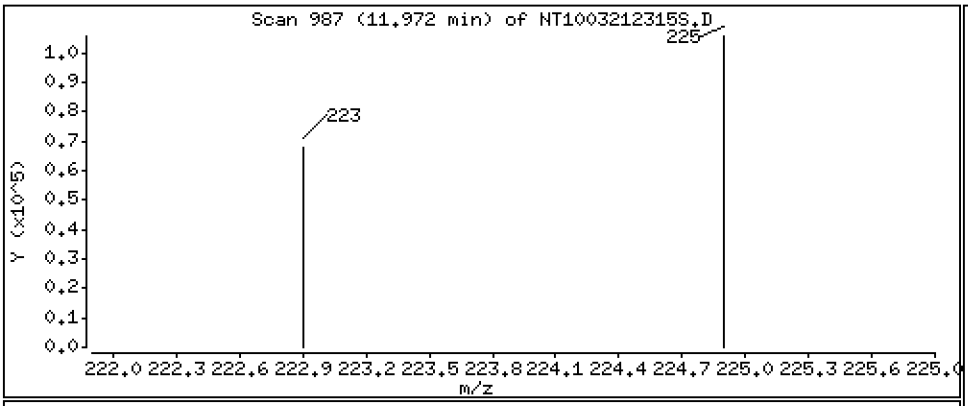
Client ID: Instrument: nt10.i

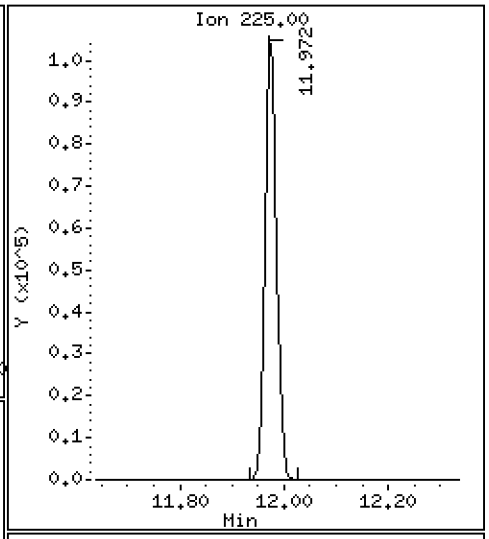
Sample Info: BLC0109-MS2

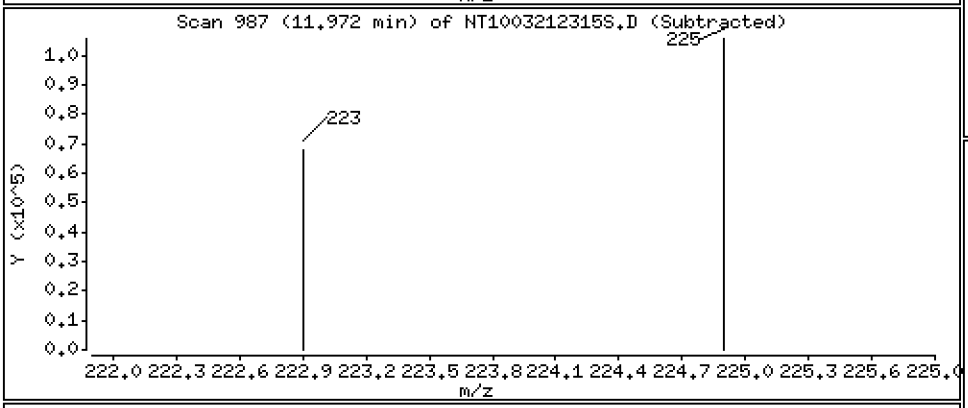
Volume Injected (uL): 1.0 Operator: JGR

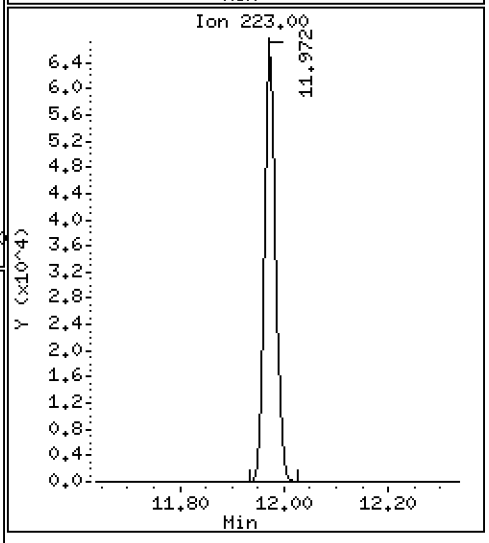
Column phase: ZB-5msi Column diameter: 0.25

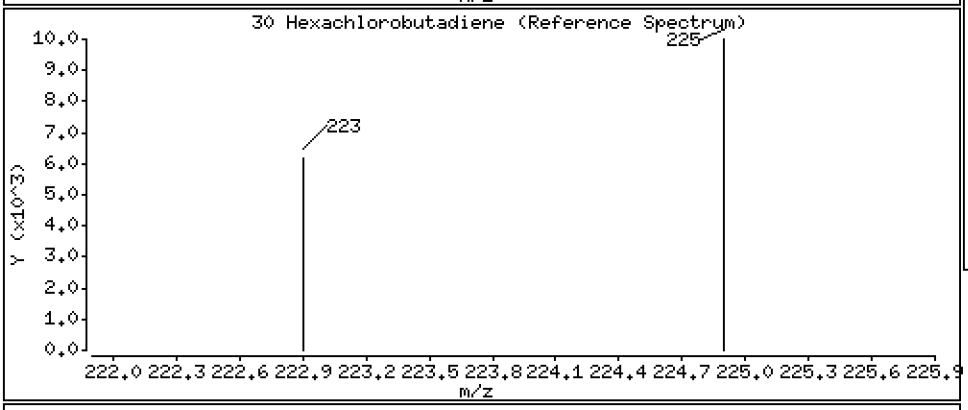
30 Hexachlorobutadiene Concentration: 3.812 ug/L

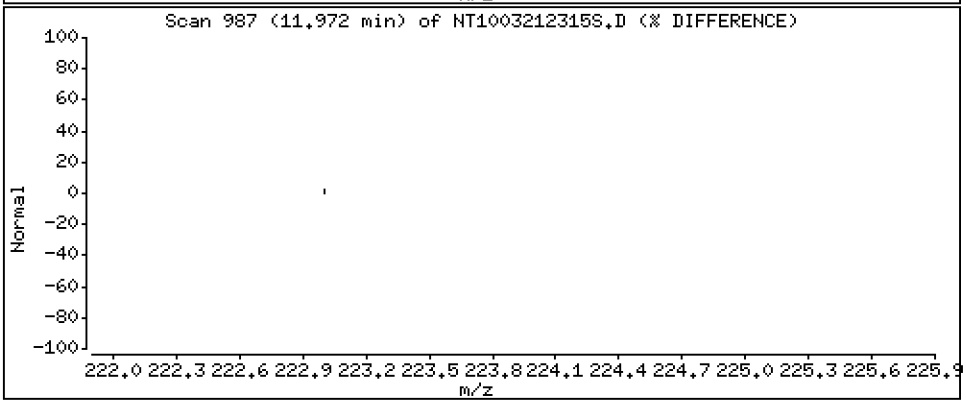












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212315S.D

Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS2

Volume Injected (uL): 1.0

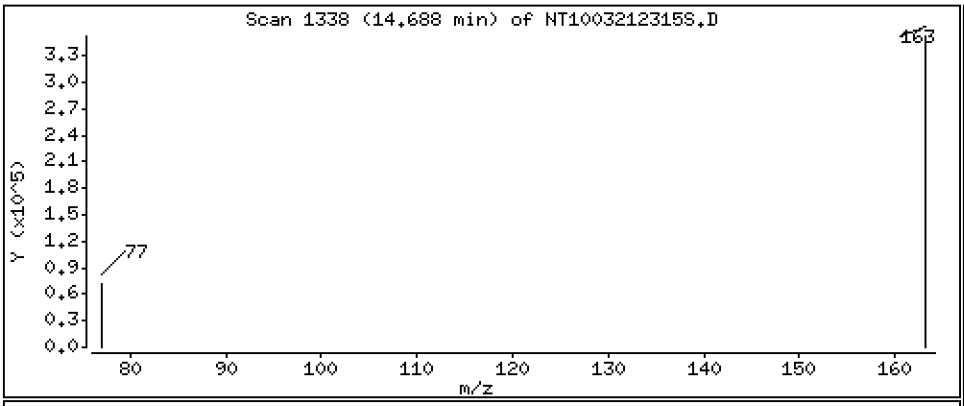
Operator: JGR

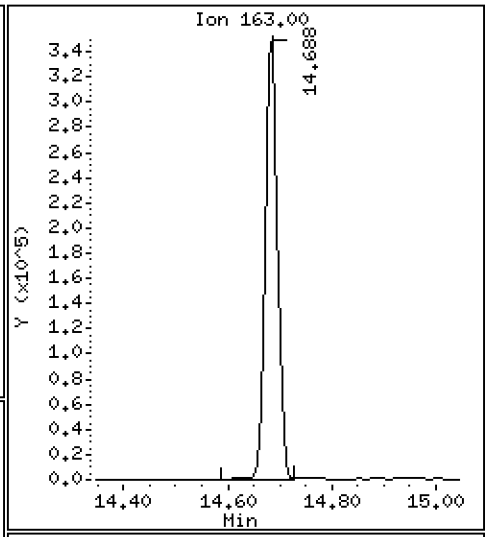
Column phase: ZB-5msi

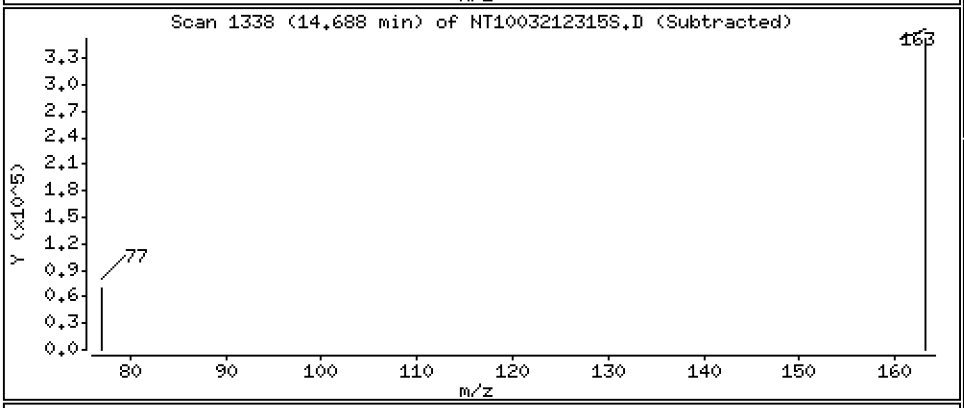
Column diameter: 0.25

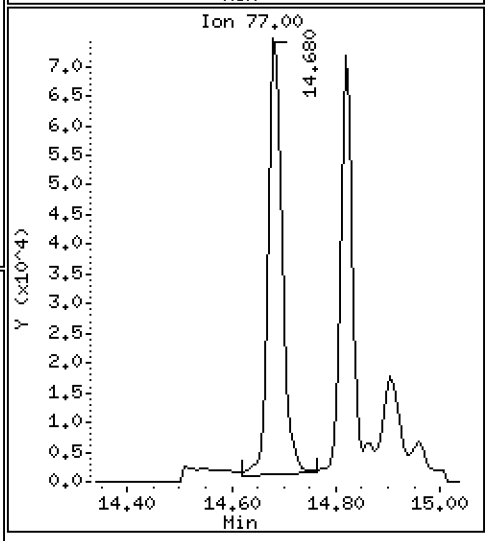
39 Dimethylphthalate

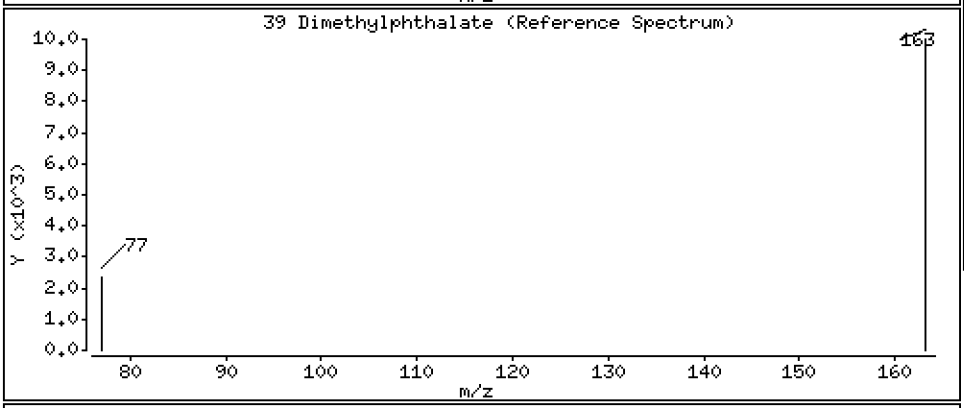
Concentration: 4.620 ug/L

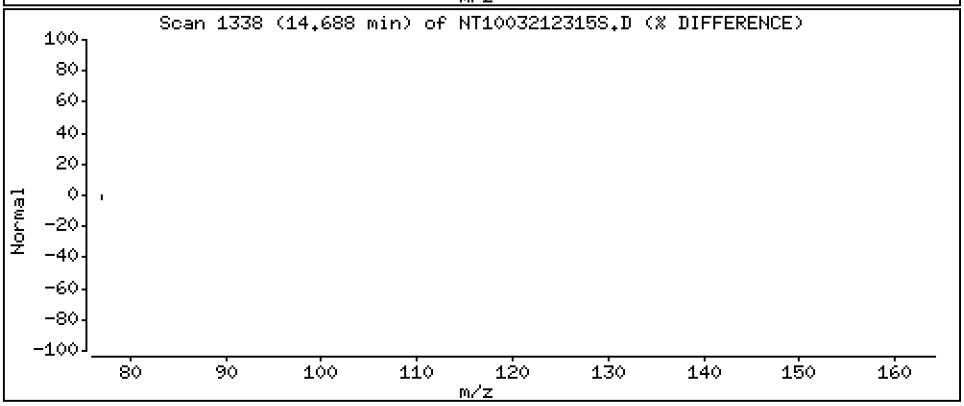












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212315S.D

Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS2

Volume Injected (uL): 1.0

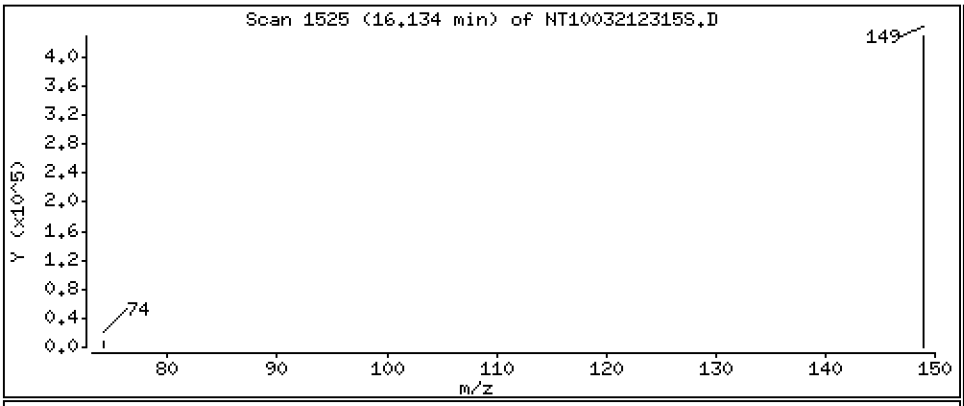
Operator: JGR

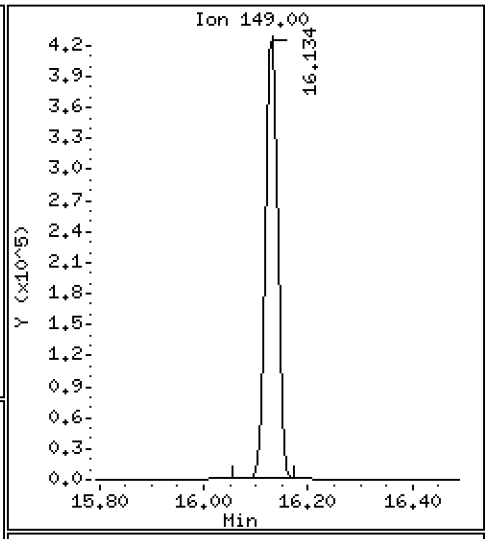
Column phase: ZB-5msi

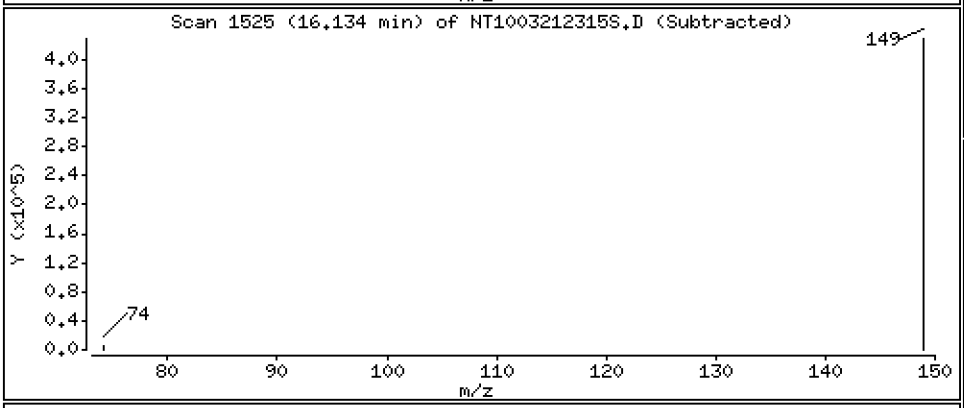
Column diameter: 0.25

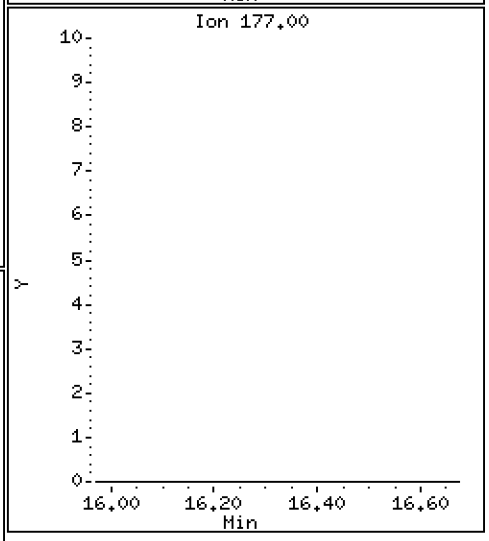
50 Diethylphthalate

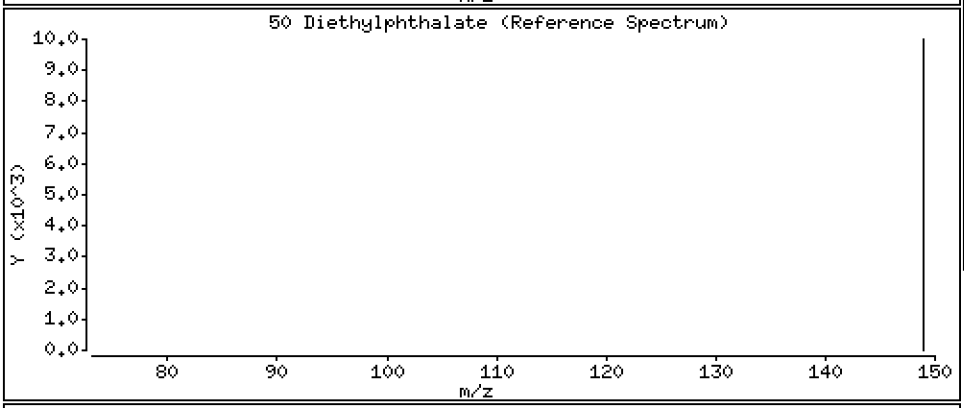
Concentration: 5.252 ug/L

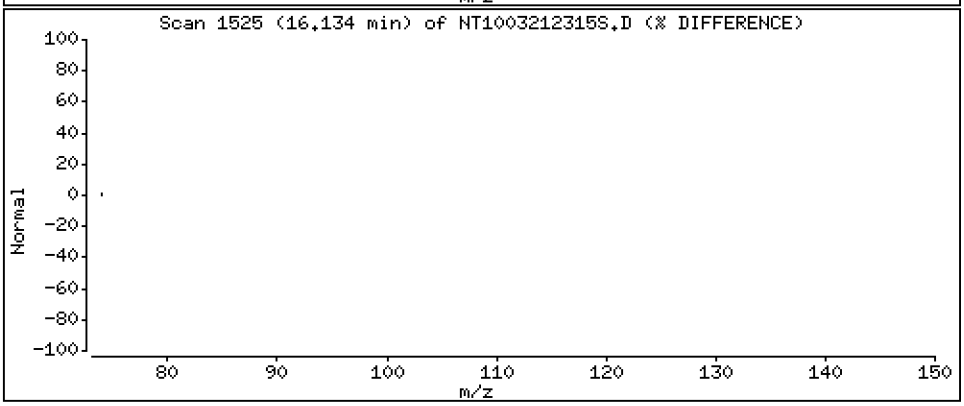












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212315S.D

Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS2

Volume Injected (uL): 1.0

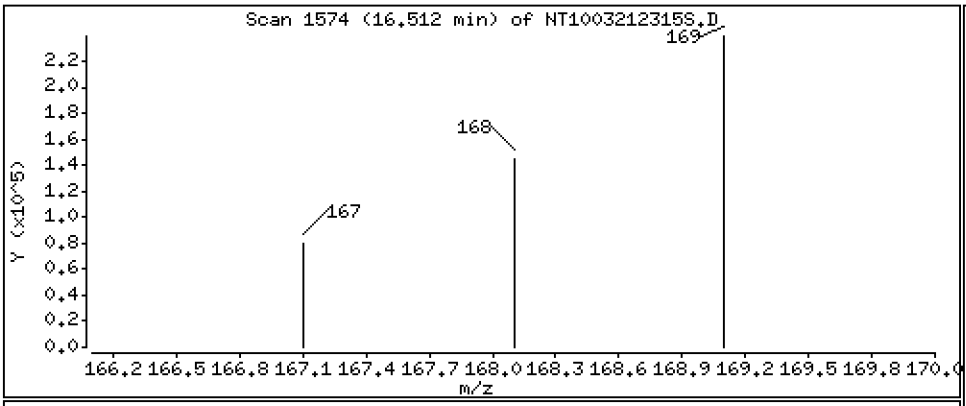
Operator: JGR

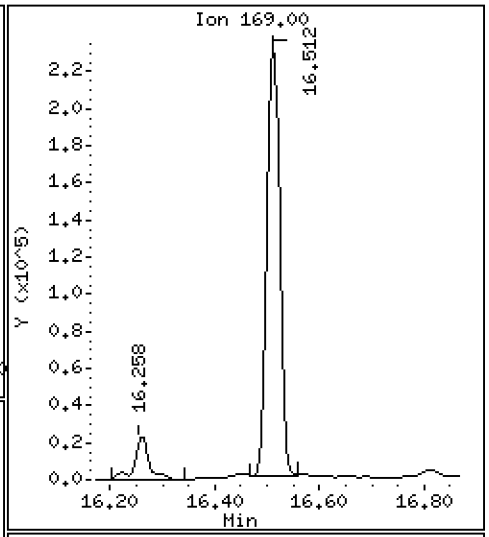
Column phase: ZB-5msi

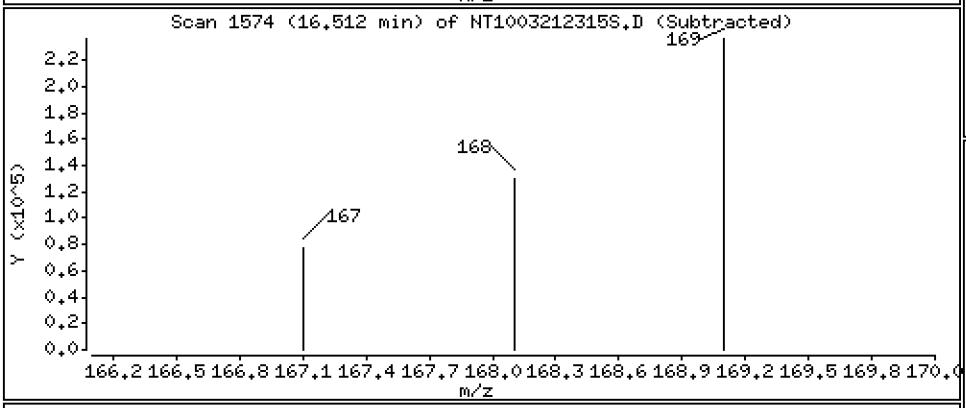
Column diameter: 0.25

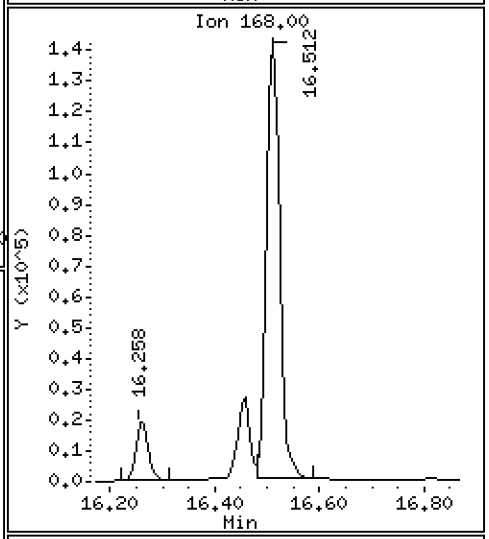
54 N-Nitrosodiphenylamine

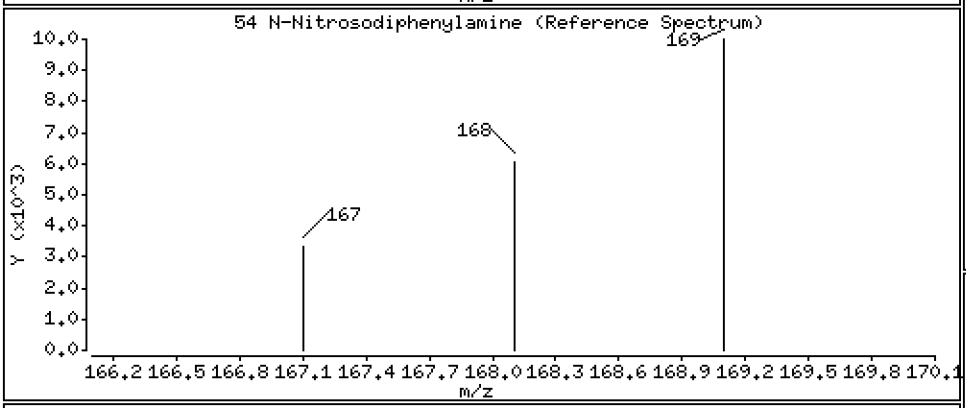
Concentration: 3.412 ug/L

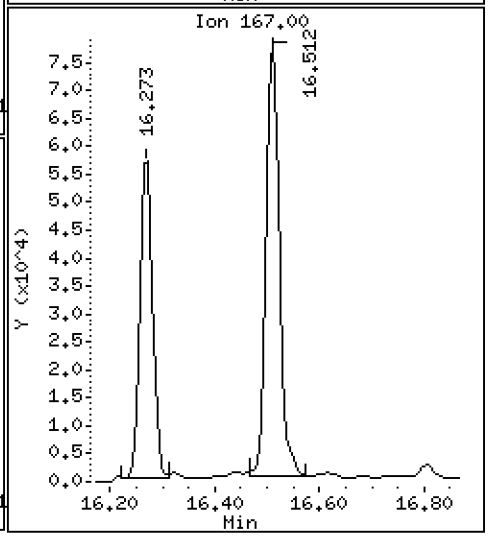


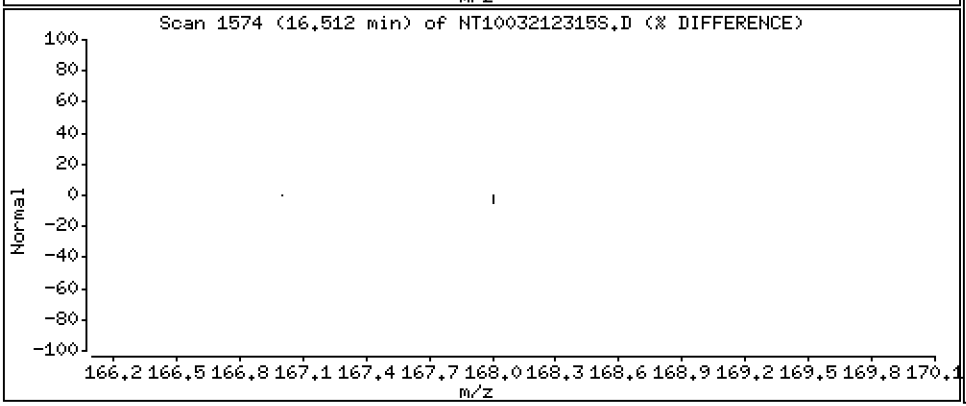












Date : 22-MAR-2023 02:08

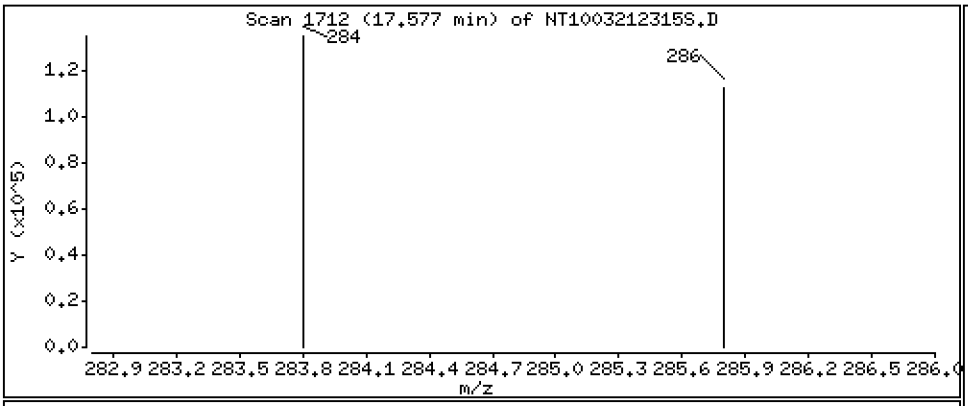
Client ID: Instrument: nt10.i

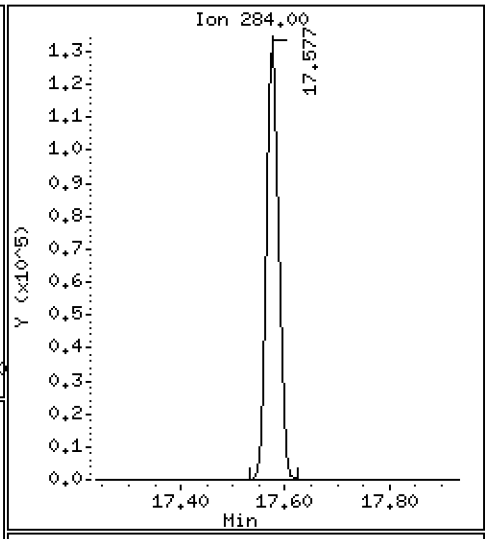
Sample Info: BLC0109-MS2

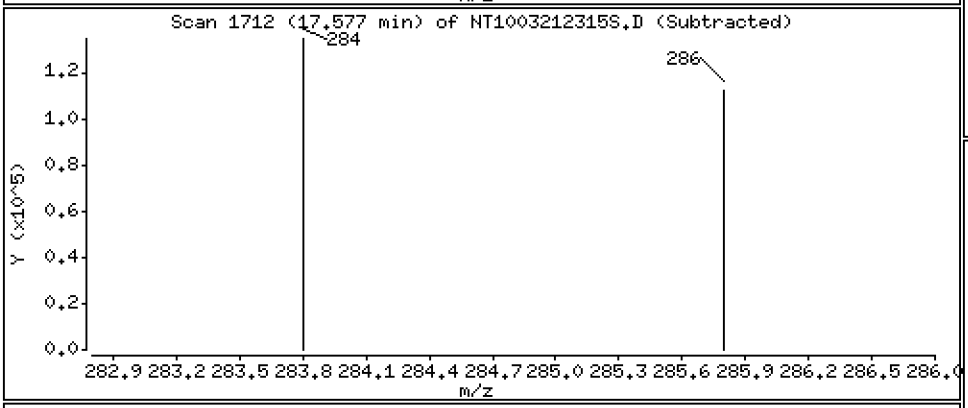
Volume Injected (uL): 1.0 Operator: JGR

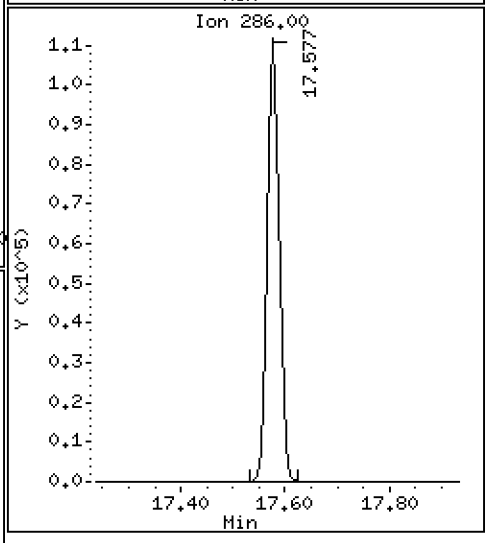
Column phase: ZB-5msi Column diameter: 0.25

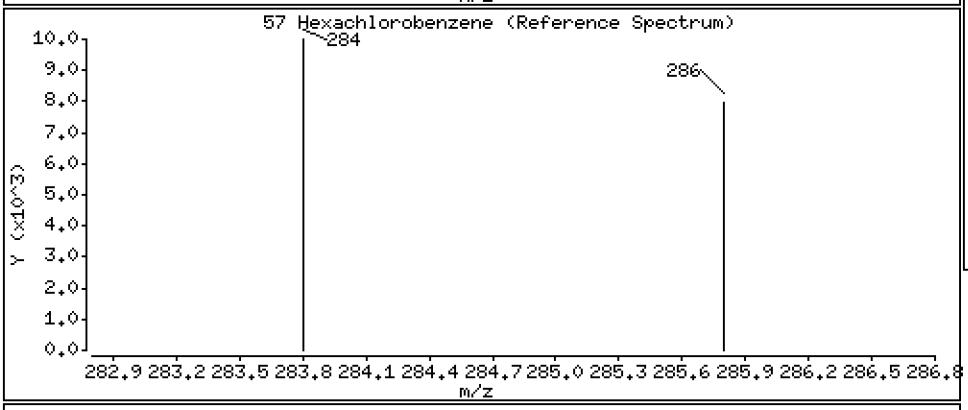
57 Hexachlorobenzene Concentration: 4.336 ug/L

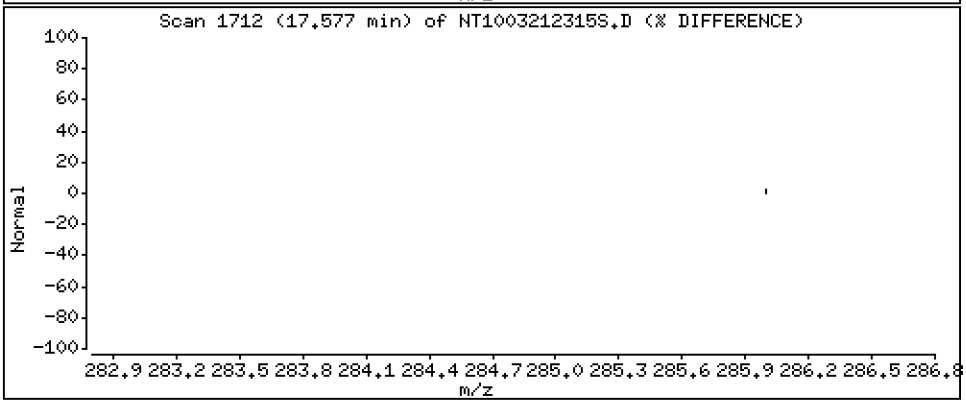












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212315S.D

Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS2

Volume Injected (uL): 1.0

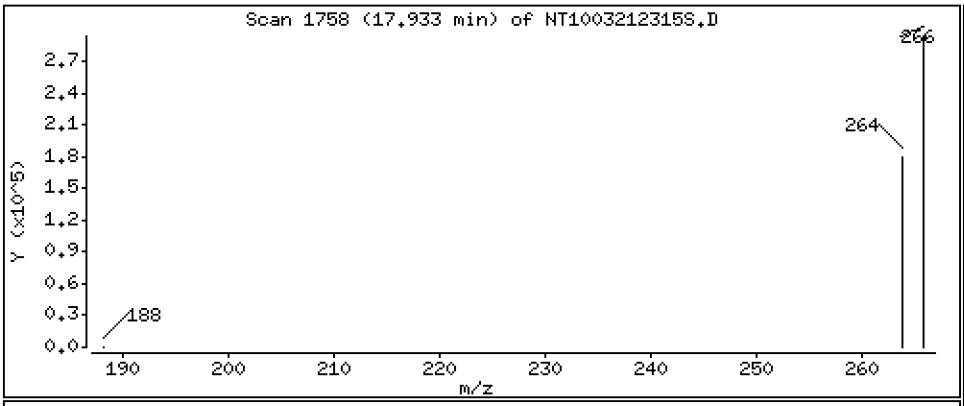
Operator: JGR

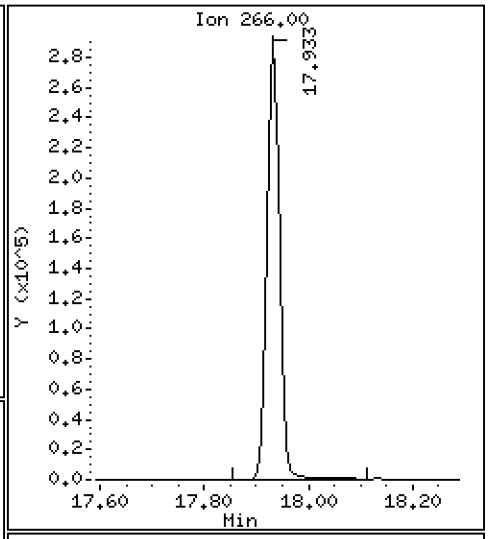
Column phase: ZB-5msi

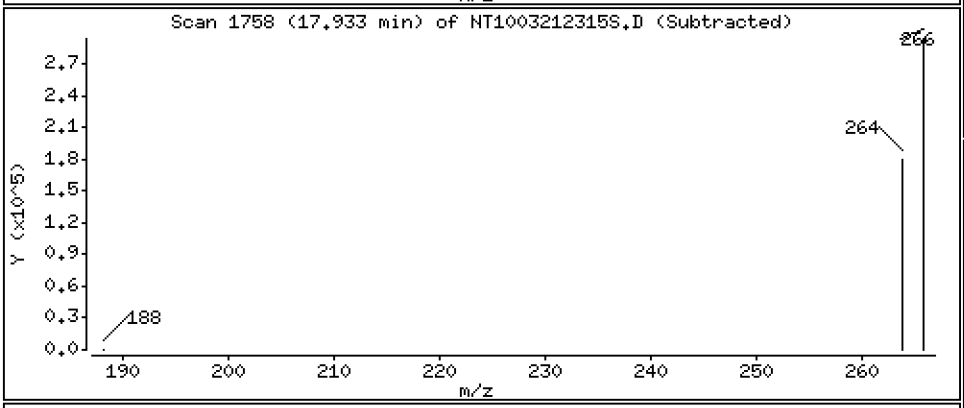
Column diameter: 0.25

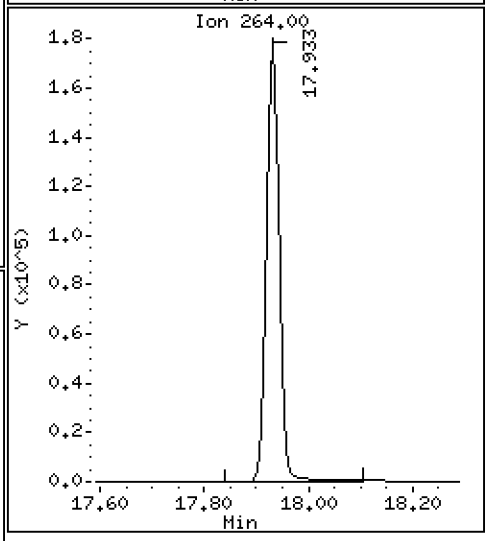
58 Pentachlorophenol

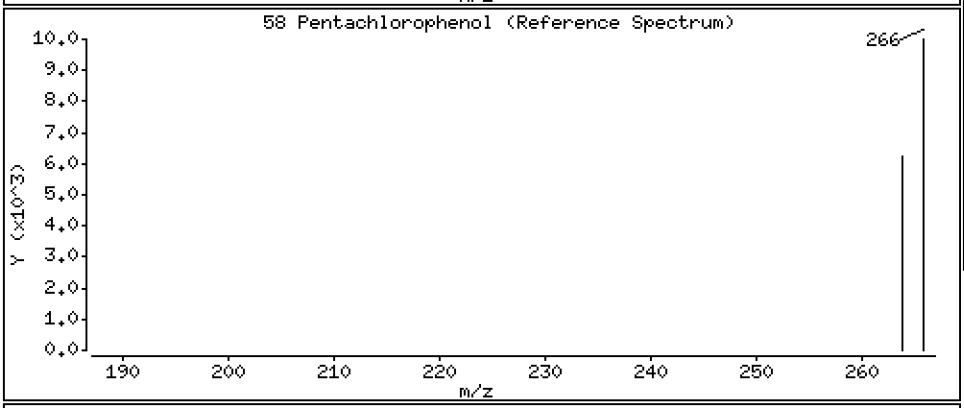
Concentration: 15.42 ug/L

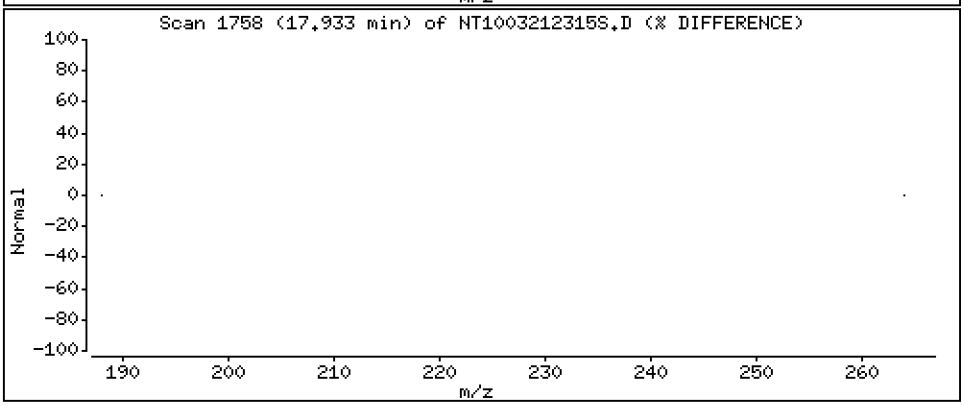












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212315S.D

Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS2

Volume Injected (uL): 1.0

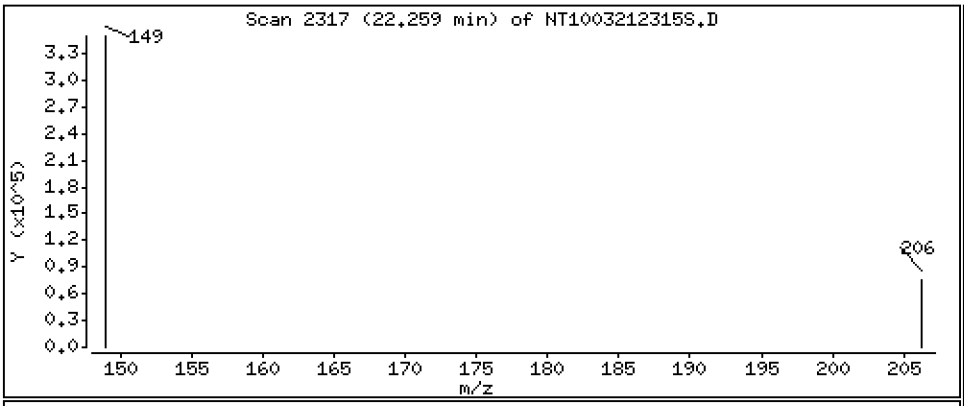
Operator: JGR

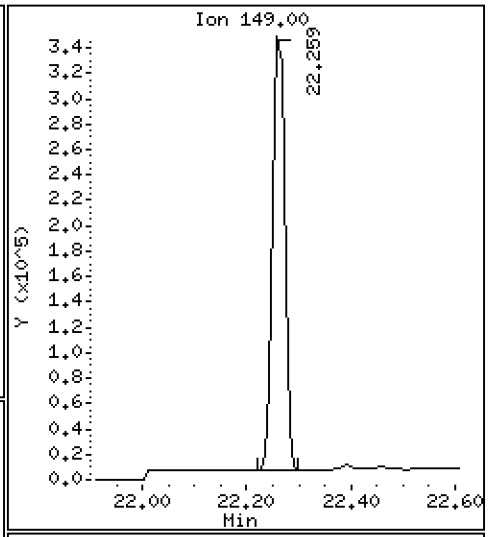
Column phase: ZB-5msi

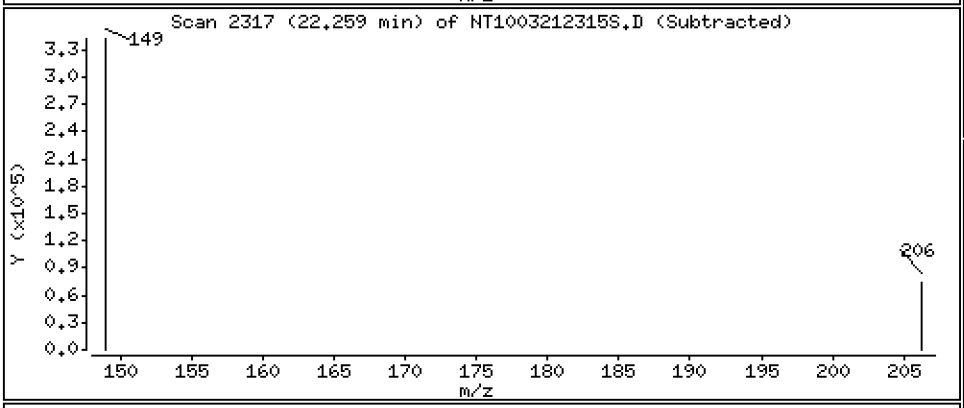
Column diameter: 0.25

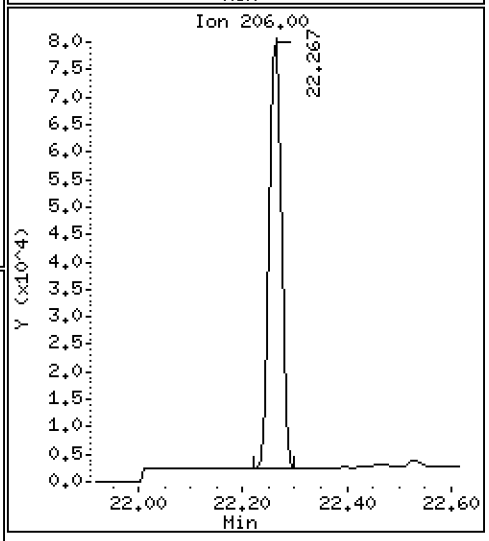
67 Butylbenzylphthalate

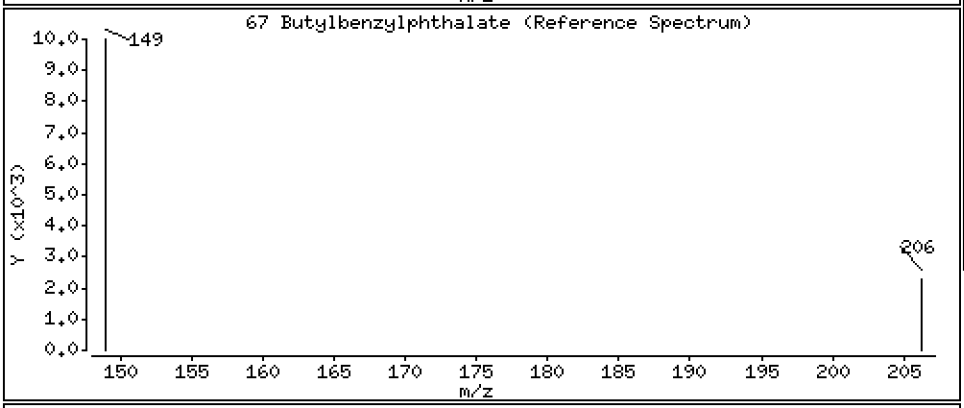
Concentration: 5.042 ug/L

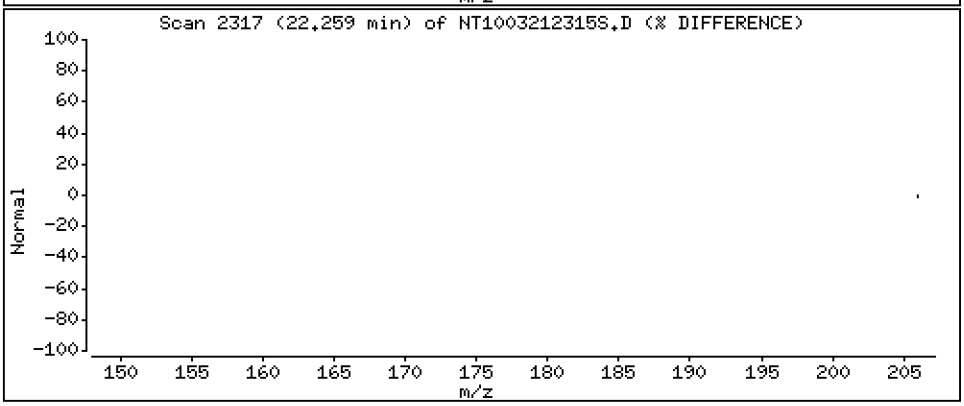












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Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS2

Volume Injected (uL): 1.0

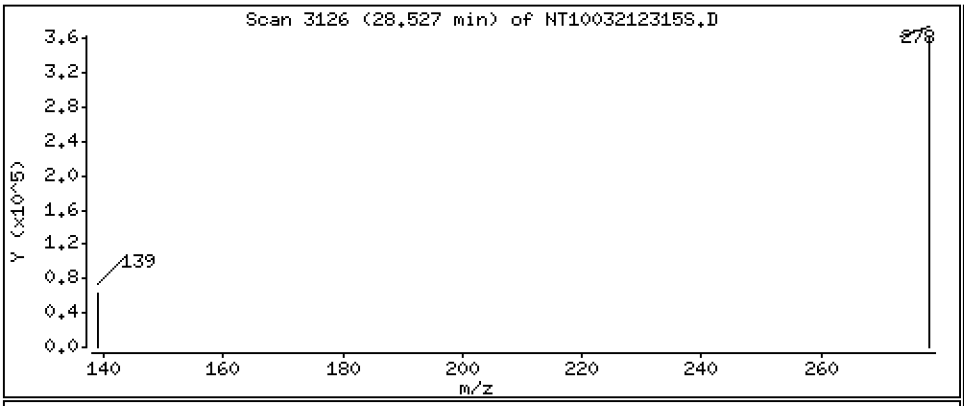
Operator: JGR

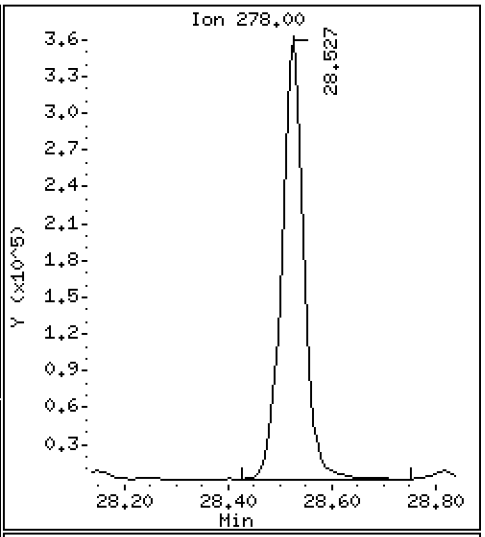
Column phase: ZB-5msi

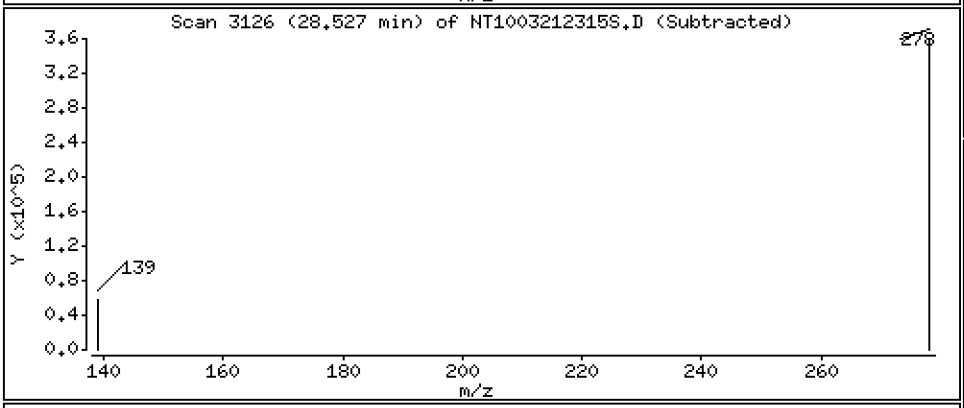
Column diameter: 0.25

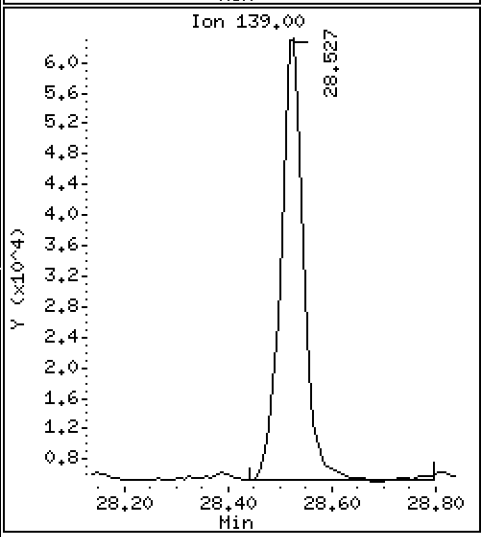
79 Dibenzo(a,h)anthracene

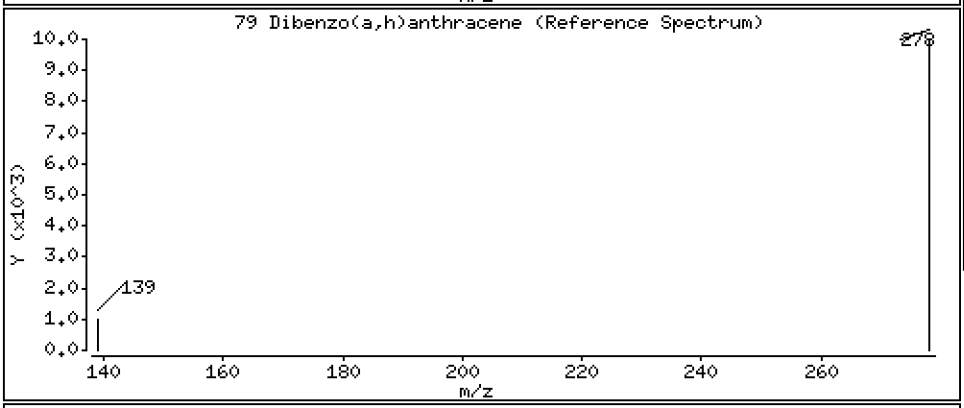
Concentration: 3.854 ug/L

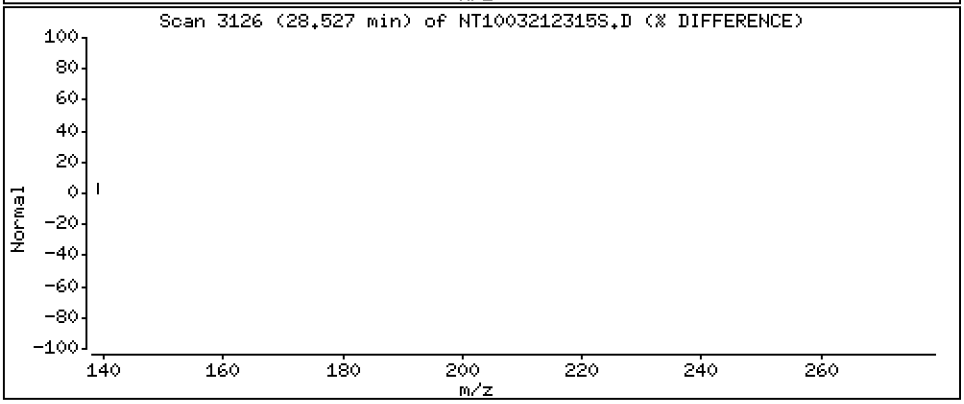












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT10032123155.D

Date : 22-MAR-2023 02:08

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MS2

Volume Injected (uL): 1.0

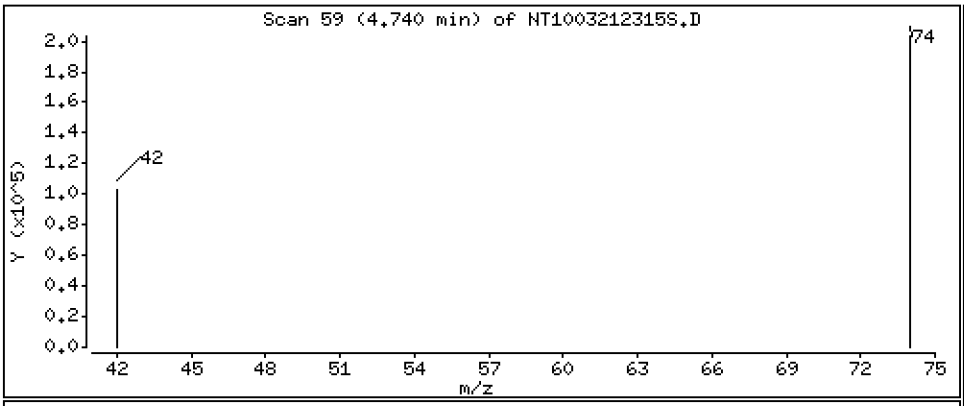
Operator: JGR

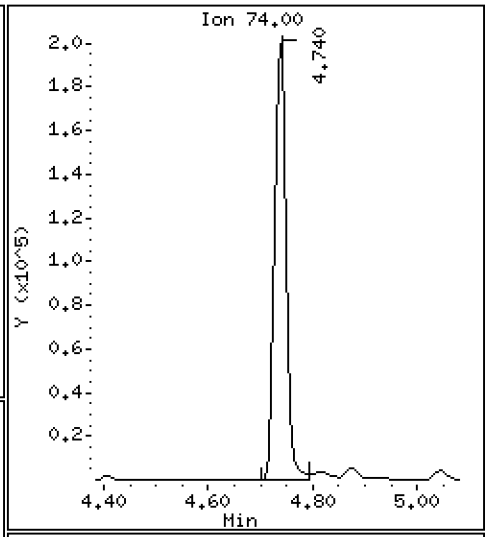
Column phase: ZB-5msi

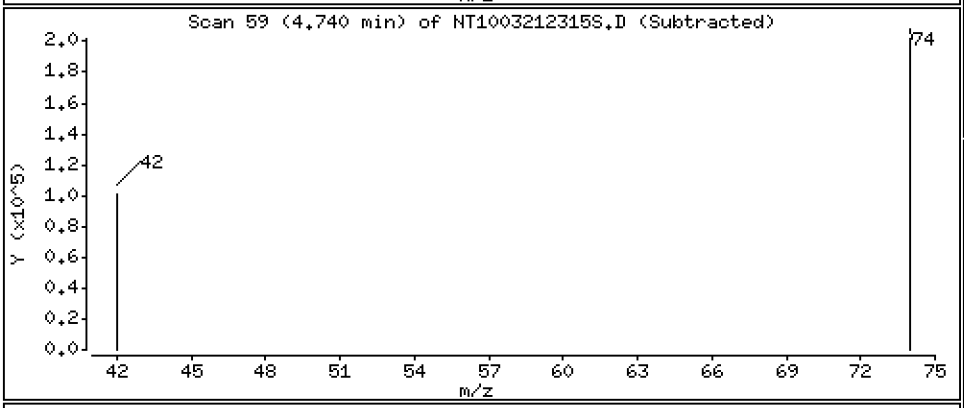
Column diameter: 0.25

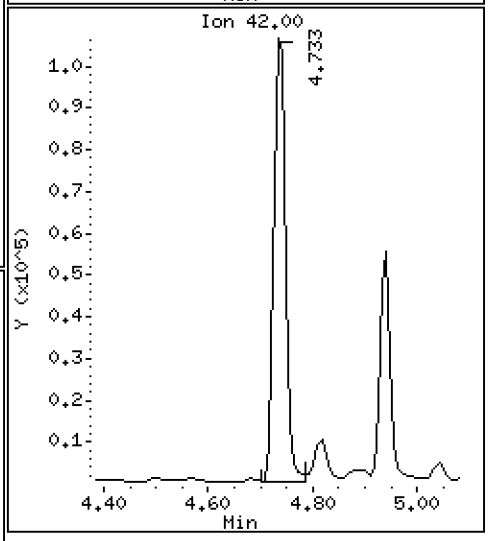
90 N-Nitrosodimethylamine

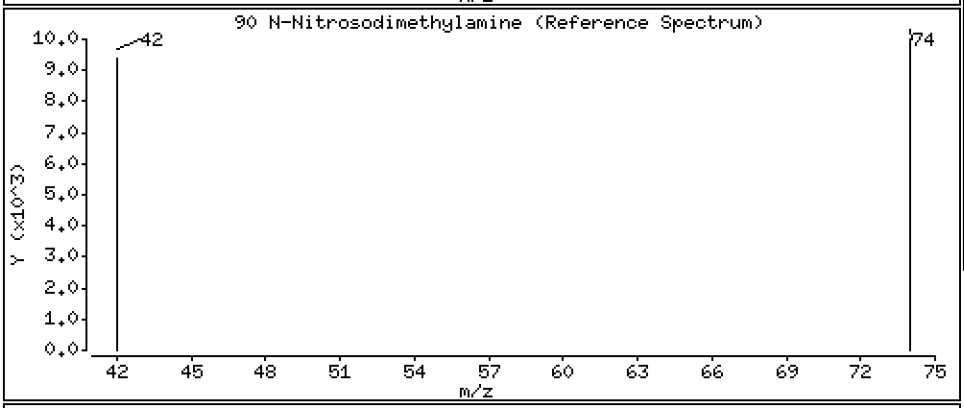
Concentration: 7.051 ug/L

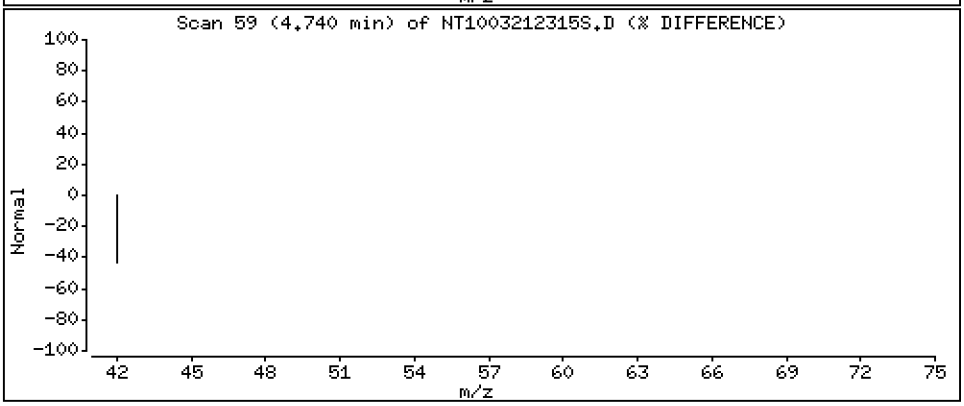












ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212315S.D
Lab Smp Id: BLC0109-MS2
Inj Date : 22-MAR-2023 02:08 MS Autotune Date: 16-JAN-2023 17:42
Operator : JGR Inst ID: nt10.i
Smp Info : BLC0109-MS2
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230321.b\20230321.b\SIMABN2.m
Meth Date : 29-Mar-2023 09:55 van Quant Type: ISTD
Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
$ 1	2-Fluorophenol	112	6.895	6.895	(0.758)	331820	4.98503	4.985(R)
3	Phenol	94	8.494	8.494	(0.934)	322036	3.52643	3.526
7	1,3-Dichlorobenzene	146	9.035	9.043	(0.993)	291574	3.41214	3.412
* 8	1,4-Dichlorobenzene-d4	152	9.097	9.105	(1.000)	219503	4.00000	
9	1,4-Dichlorobenzene	146	9.128	9.136	(1.003)	288496	3.49738	3.497
11	Benzyl alcohol	79	9.369	9.377	(1.030)	235453	4.44738	4.447
12	1,2-Dichlorobenzene	146	9.485	9.493	(1.043)	282199	3.47863	3.479
13	2-Methylphenol	108	9.602	9.602	(1.055)	205520	3.24794	3.248
15	4-Methylphenol	108	9.874	9.874	(1.085)	249317	3.79176	3.792
16	N-Nitroso-di-n-propylamine	70	9.928	9.936	(1.091)	173543	3.73208	3.732
22	2,4-Dimethylphenol	107	10.906	10.914	(0.942)	220206	3.19216	3.192
24	Benzoic acid	105	11.101	11.042	(0.959)	710339	17.4603	17.46
26	1,2,4-Trichlorobenzene	180	11.485	11.500	(0.992)	255381	3.68009	3.680
* 27	Naphthalene-d8	136	11.577	11.585	(1.000)	798072	4.00000	
30	Hexachlorobutadiene	225	11.971	11.987	(1.034)	160814	3.81159	3.812
39	Dimethylphthalate	163	14.688	14.695	(0.968)	567490	4.62030	4.620
* 42	Acenaphthene-d10	162	15.175	15.183	(1.000)	389217	4.00000	
50	Diethylphthalate	149	16.134	16.141	(1.063)	668282	5.25207	5.252
54	N-Nitrosodiphenylamine	169	16.512	16.520	(0.907)	374652	3.41246	3.412
57	Hexachlorobenzene	284	17.577	17.584	(0.966)	213118	4.33623	4.336

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	58 Pentachlorophenol	266	17.933	17.941	(0.986)	463190	15.4173	15.42
*	59 Phenanthrene-d10	188	18.196	18.196	(1.000)	818299	4.00000	
$	66 Terphenyl-d14	244	21.330	21.337	(0.918)	542967	4.42099	4.421(R)
	67 Butylbenzylphthalate	149	22.259	22.259	(0.958)	530228	5.04226	5.042
*	69 Chrysene-d12	240	23.234	23.234	(1.000)	753767	4.00000	
*	77 Perylene-d12	264	25.859	25.836	(1.000)	870858	4.00000	
	79 Dibenzo(a,h)anthracene	278	28.526	28.487	(1.103)	1077395	3.85368	3.854
	90 N-Nitrosodimethylamine	74	4.740	4.732	(0.521)	297686	7.05136	7.051

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1003212315S.D
Lab Smp Id: BLC0109-MS2
Analysis Type: SV
Quant Type: ISTD
Operator: JGR
Method File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\SIMABN2.m
Misc Info:

Calibration Date: 21-MAR-2023
Calibration Time: 18:25
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	162628	81314	325256	219503	34.97
27 Naphthalene-d8	580280	290140	1160560	798072	37.53
42 Acenaphthene-d10	297255	148628	594510	389217	30.94
59 Phenanthrene-d10	561093	280547	1122186	818299	45.84
69 Chrysene-d12	498827	249414	997654	753767	51.11
77 Perylene-d12	558480	279240	1116960	870858	55.93

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.11	8.61	9.61	9.10	-0.09
27 Naphthalene-d8	11.59	11.09	12.09	11.58	-0.07
42 Acenaphthene-d10	15.18	14.68	15.68	15.18	-0.05
59 Phenanthrene-d10	18.20	17.70	18.70	18.20	0.00
69 Chrysene-d12	23.23	22.73	23.73	23.23	0.00
77 Perylene-d12	25.84	25.34	26.34	25.86	0.09

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

REVIEW SUMMARY FOR FILE - NT1003212315S.D

Lab ID: BLC0109-MS2
nt10.i, 20230321.b\20230321.b\SIMABN2.m,   22-MAR-2023 02:08

RT	CO-ELUTION COMPOUNDS
	NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.959	0.953	0.0058	Benzoic acid

RRT check based on Ccal File: 20230321.b/NT1003212303S.D

On Column LOD for nt10.i, 20230321.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

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

Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT10032123165.D

Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

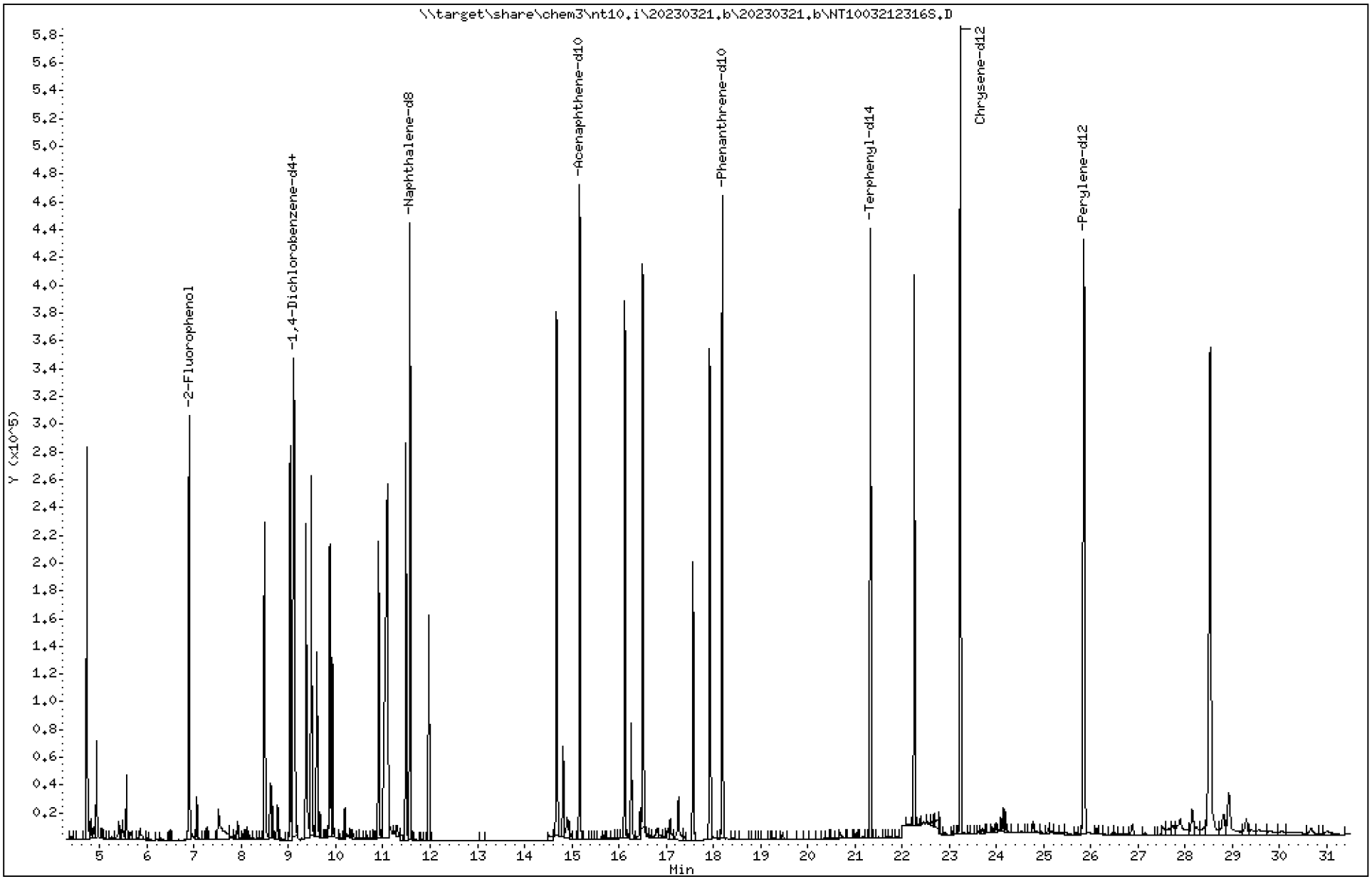
Sample Info: BLC0109-MSD2

Volume Injected (uL): 1.0

Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25



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Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD2

Volume Injected (uL): 1.0

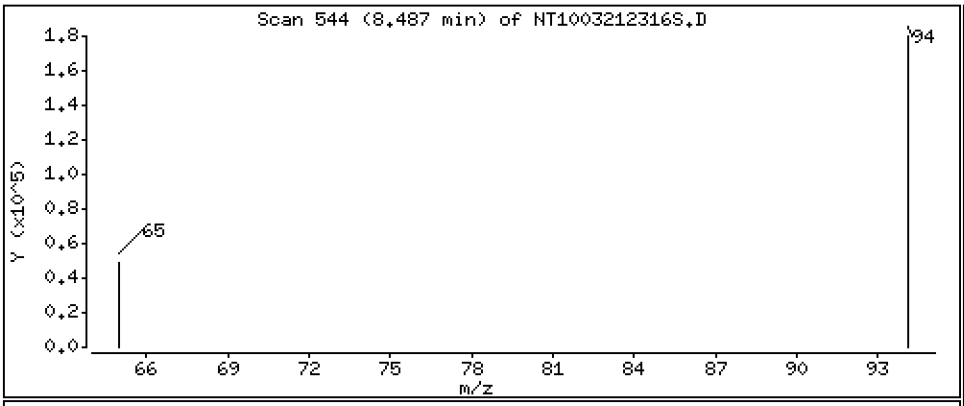
Operator: JGR

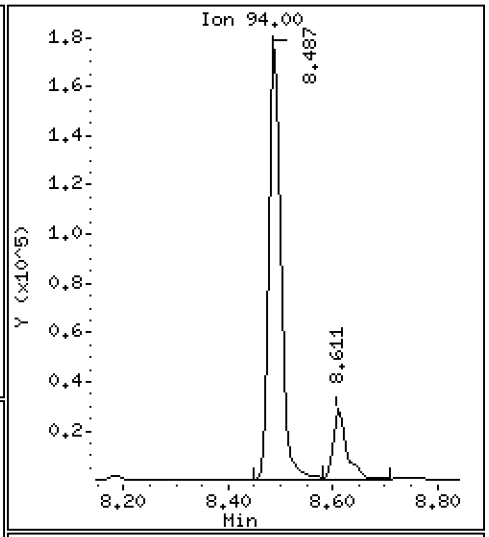
Column phase: ZB-5msi

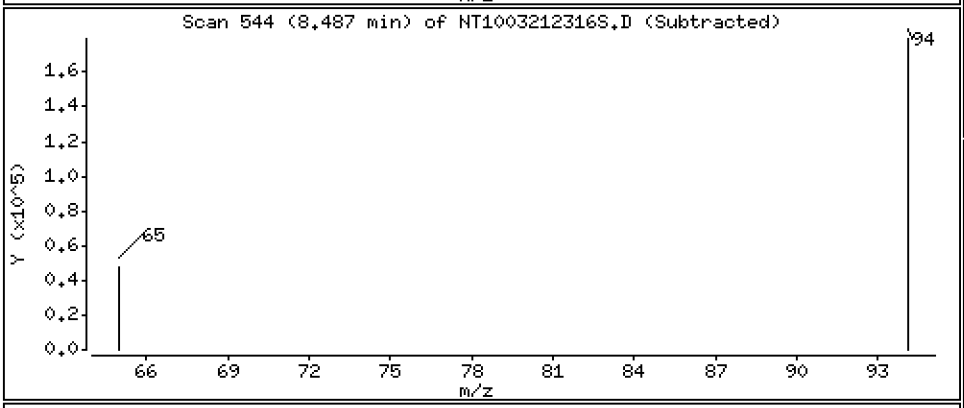
Column diameter: 0.25

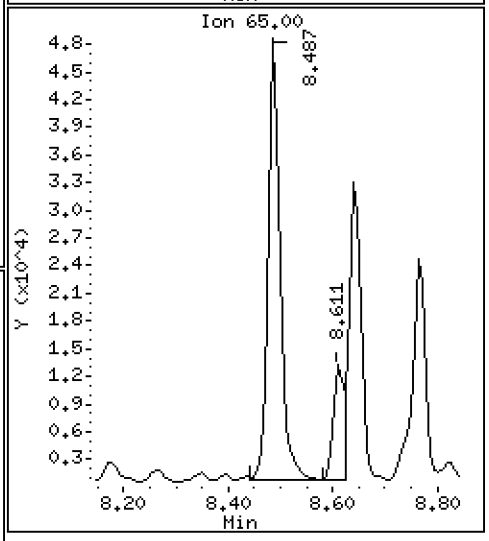
3 Phenol

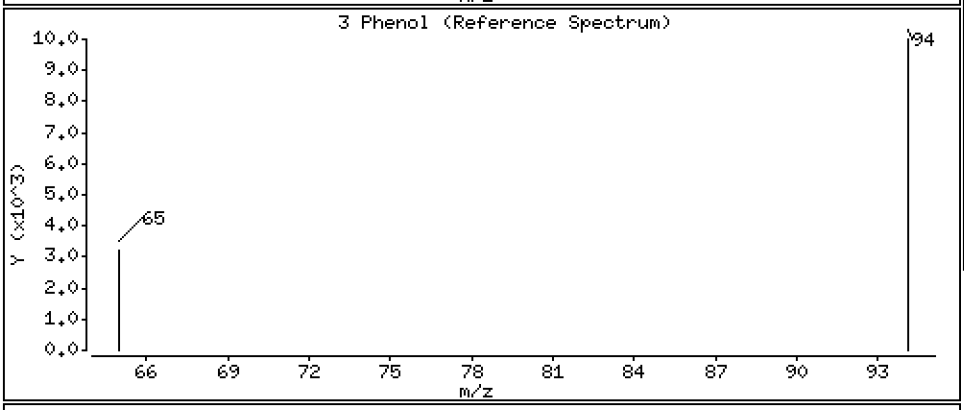
Concentration: 3.232 ug/L

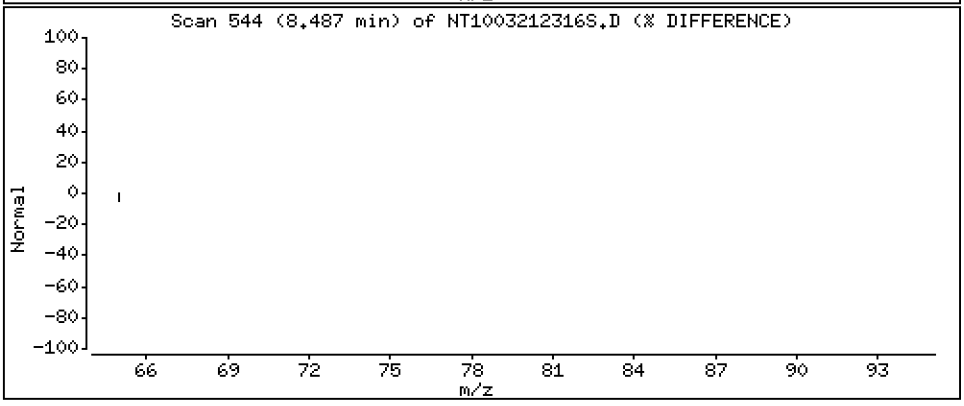












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Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD2

Volume Injected (uL): 1.0

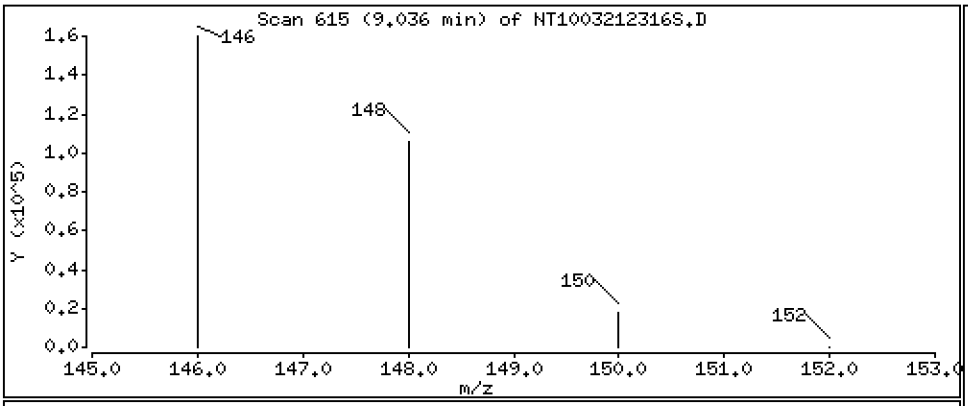
Operator: JGR

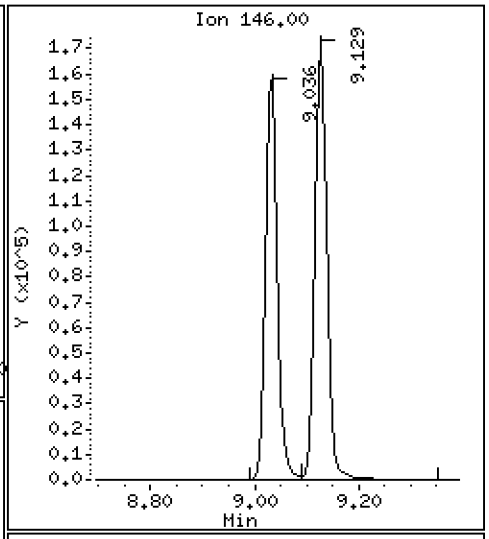
Column phase: ZB-5msi

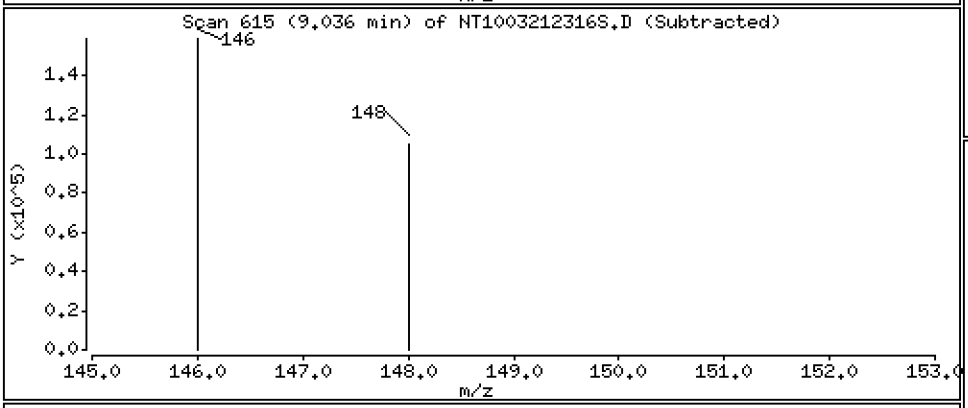
Column diameter: 0.25

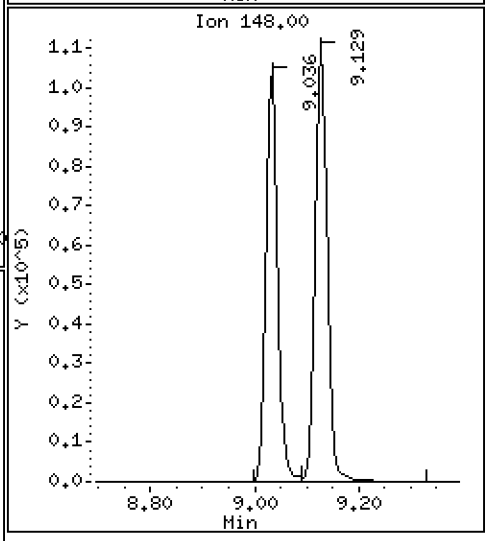
7 1,3-Dichlorobenzene

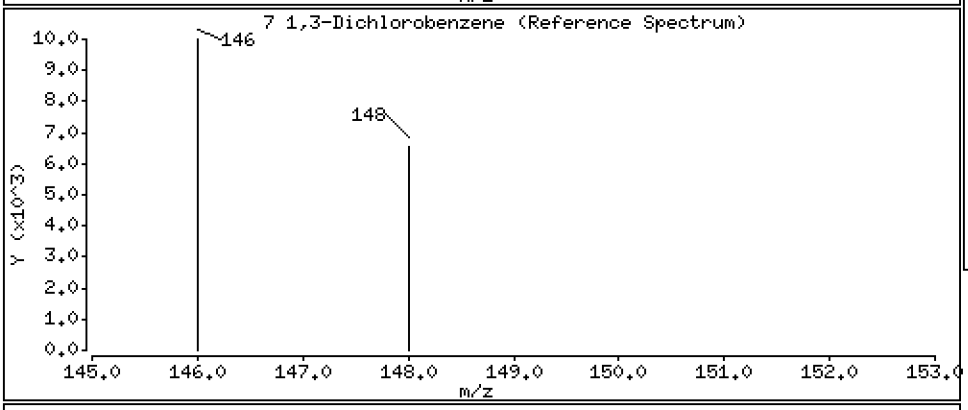
Concentration: 3.267 ug/L

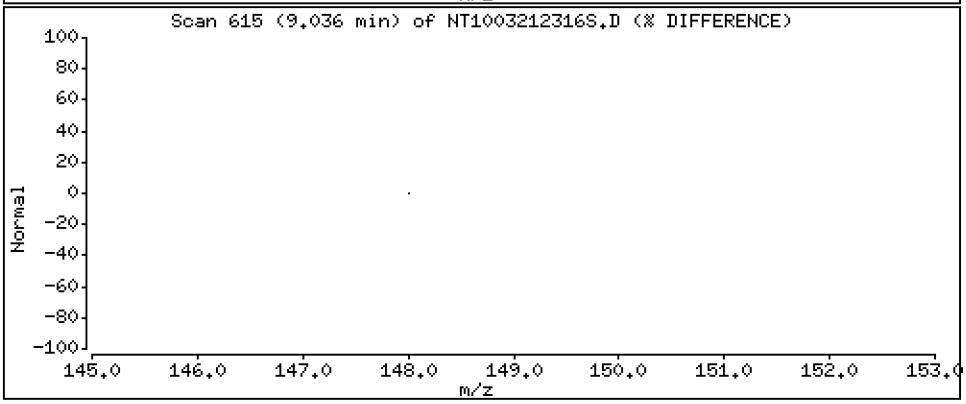












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212316S.D

Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD2

Volume Injected (uL): 1.0

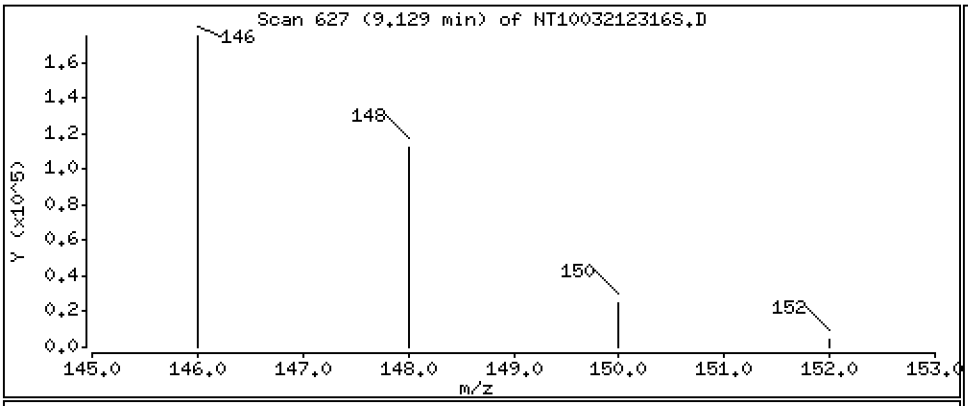
Operator: JGR

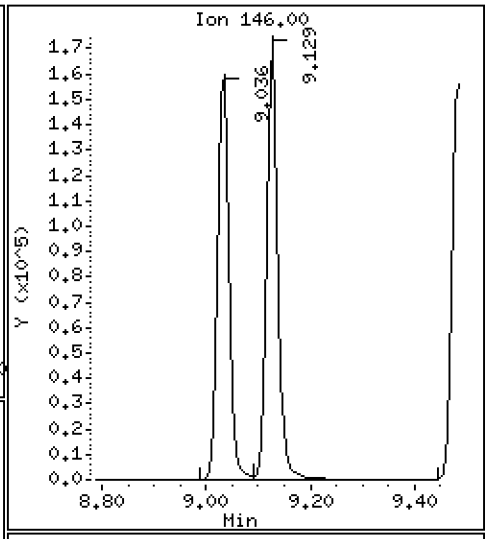
Column phase: ZB-5msi

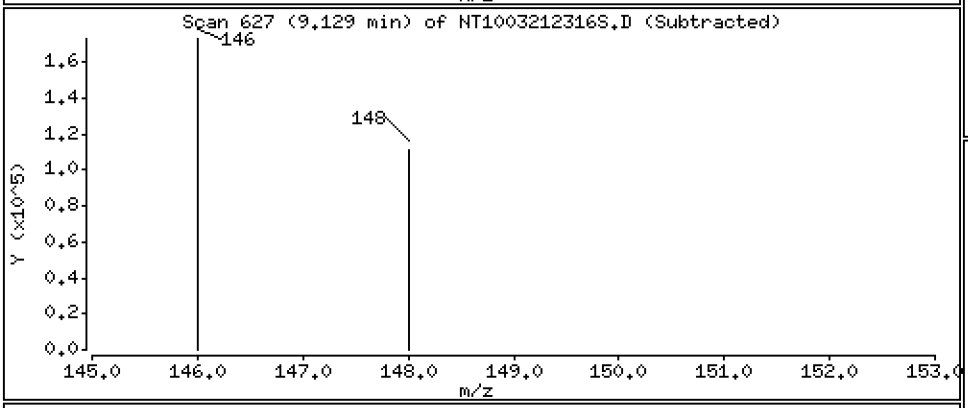
Column diameter: 0.25

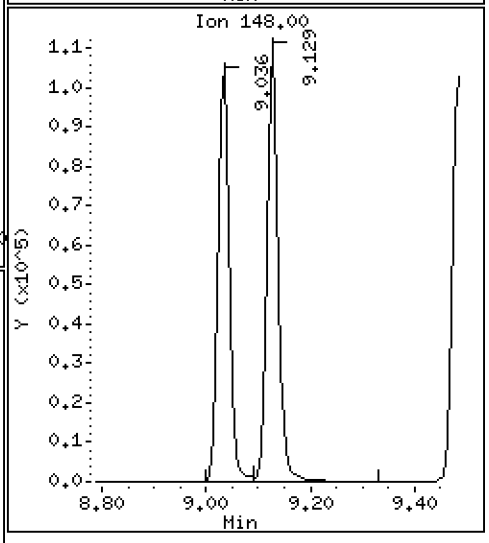
9 1,4-Dichlorobenzene

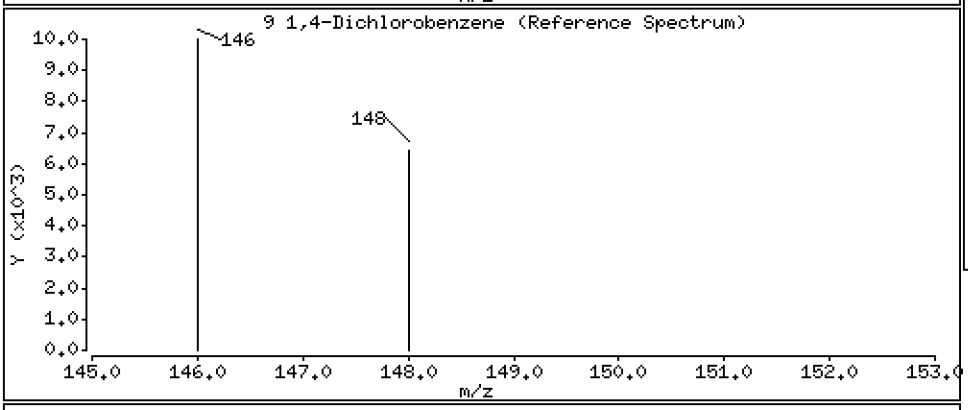
Concentration: 3.375 ug/L

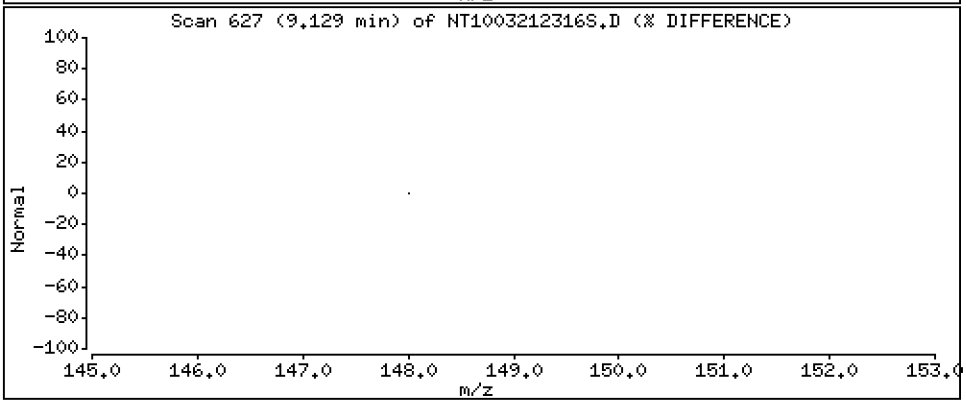












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT10032123165.D

Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD2

Volume Injected (uL): 1.0

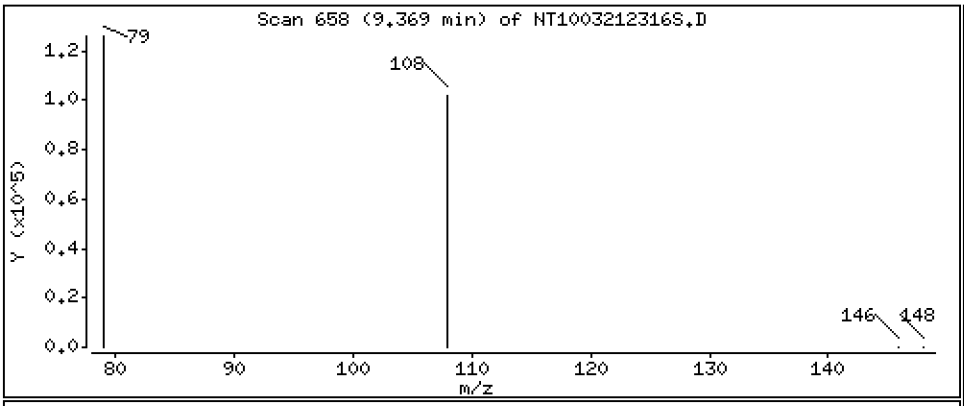
Operator: JGR

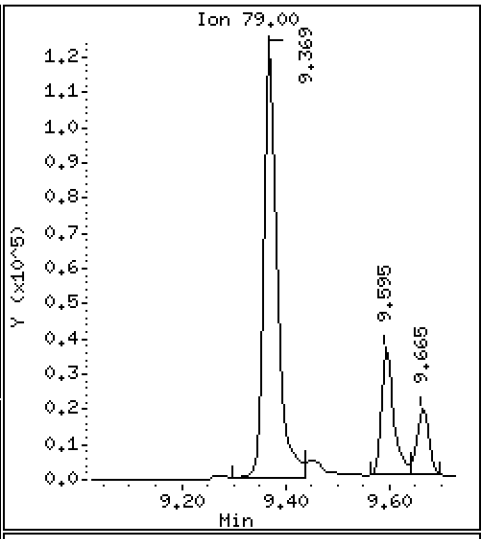
Column phase: ZB-5msi

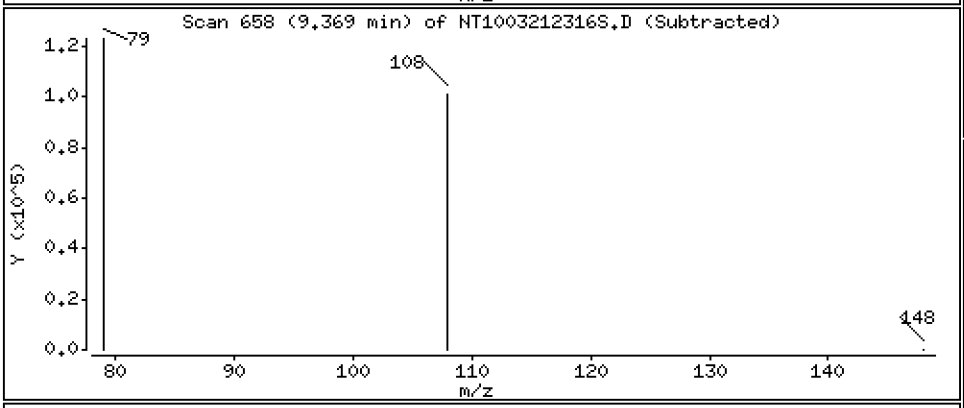
Column diameter: 0.25

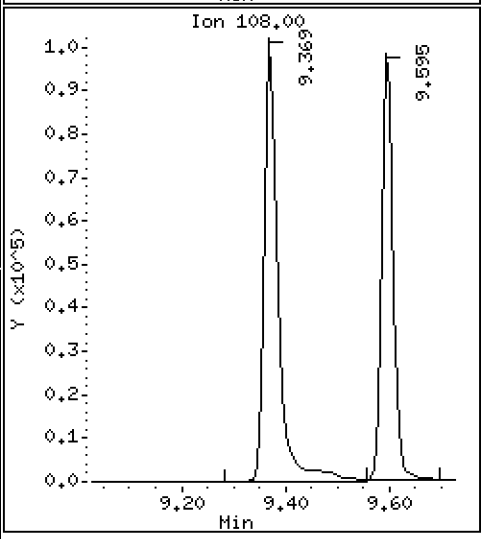
11 Benzyl alcohol

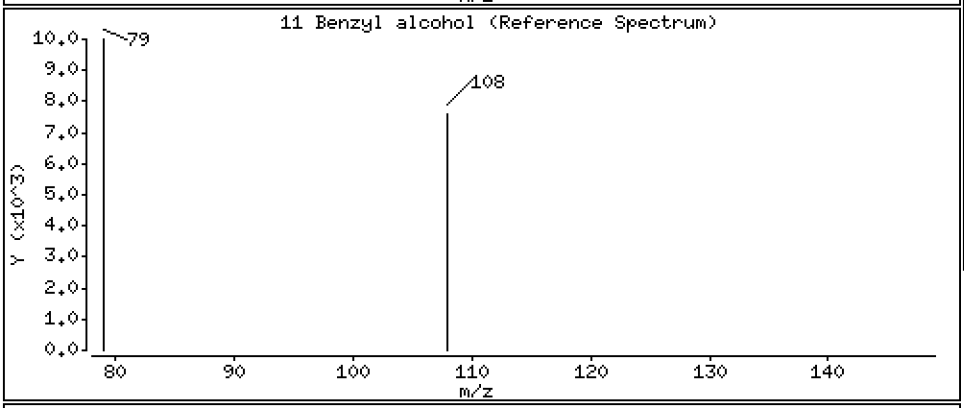
Concentration: 4.368 ug/L

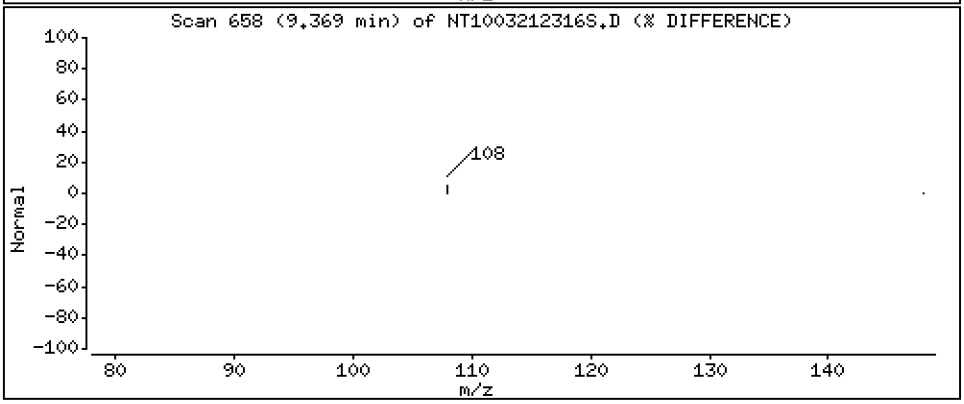












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT10032123165.D

Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD2

Volume Injected (uL): 1.0

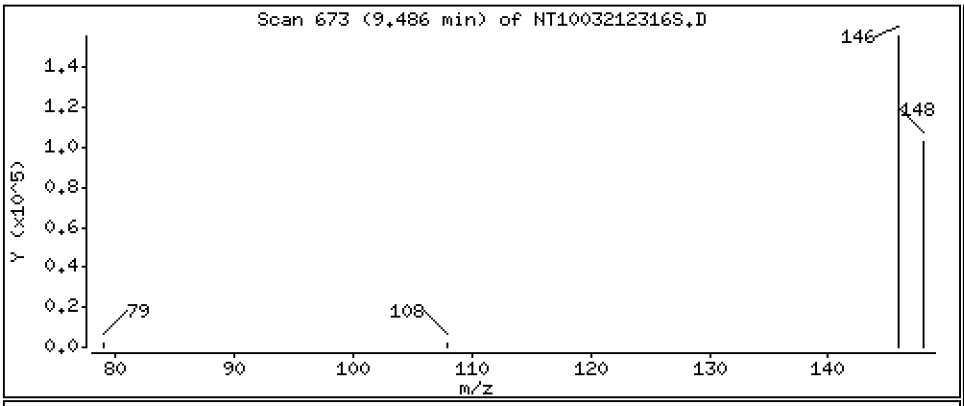
Operator: JGR

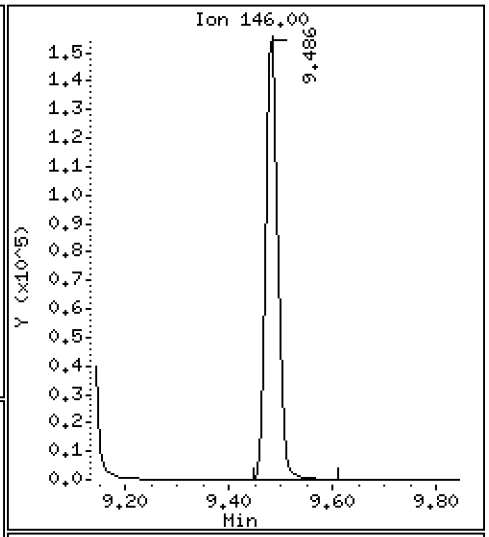
Column phase: ZB-5msi

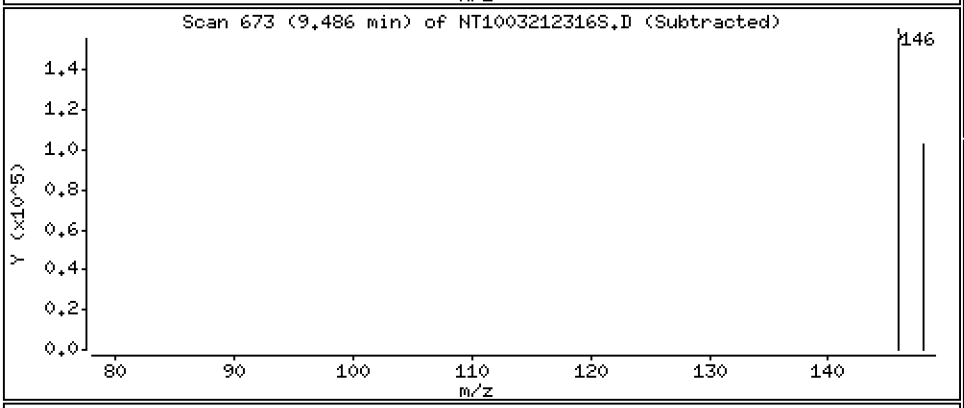
Column diameter: 0.25

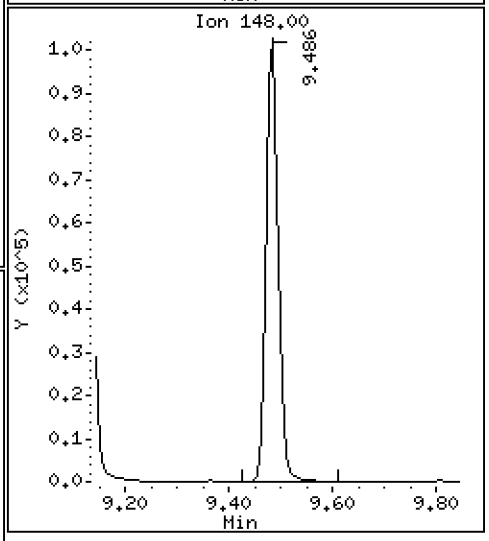
12 1,2-Dichlorobenzene

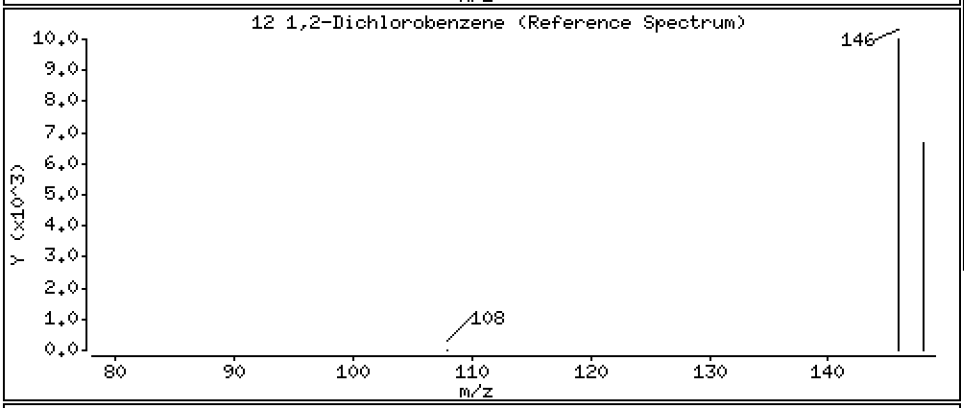
Concentration: 3.356 ug/L

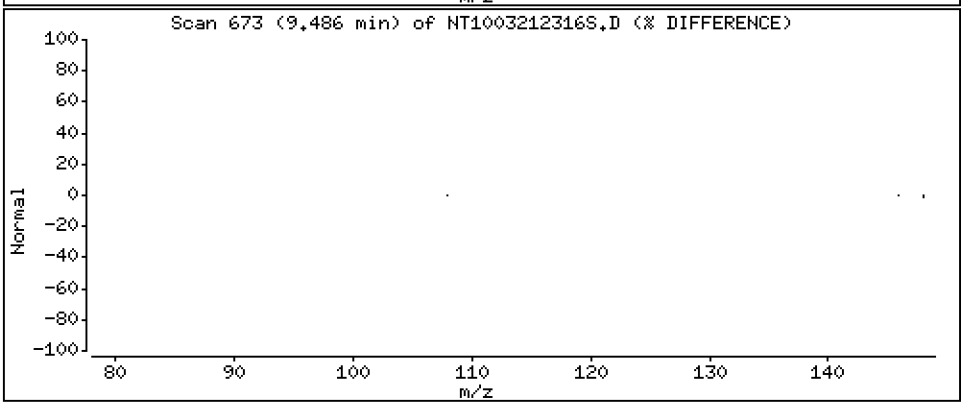












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT10032123165.D

Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD2

Volume Injected (uL): 1.0

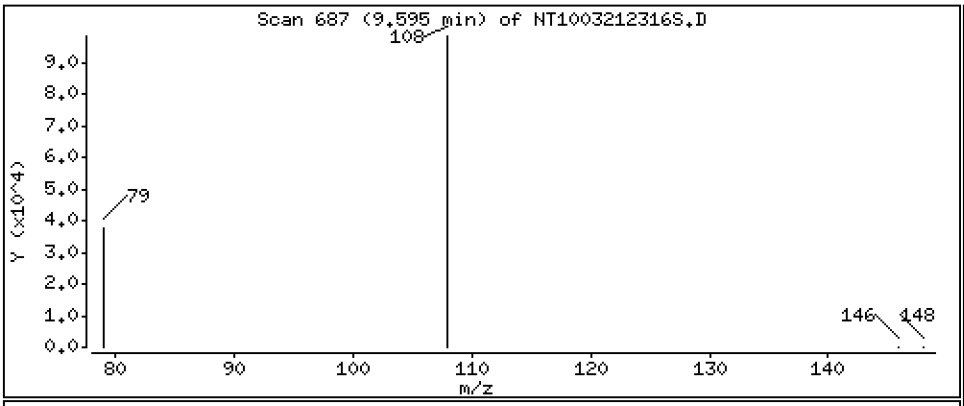
Operator: JGR

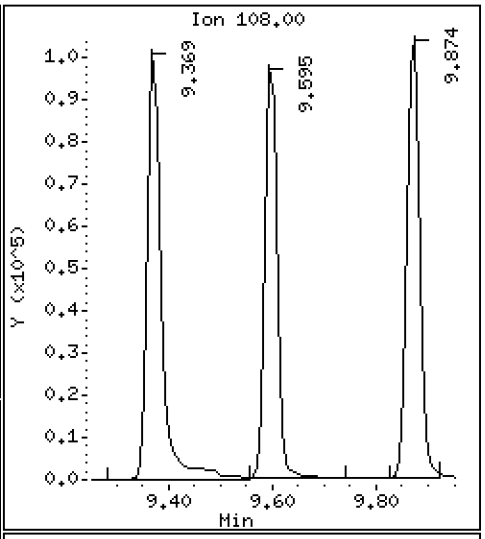
Column phase: ZB-5msi

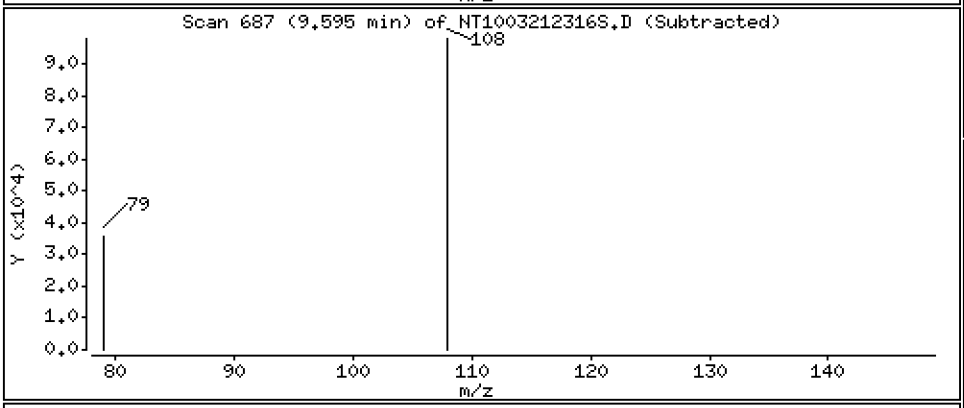
Column diameter: 0.25

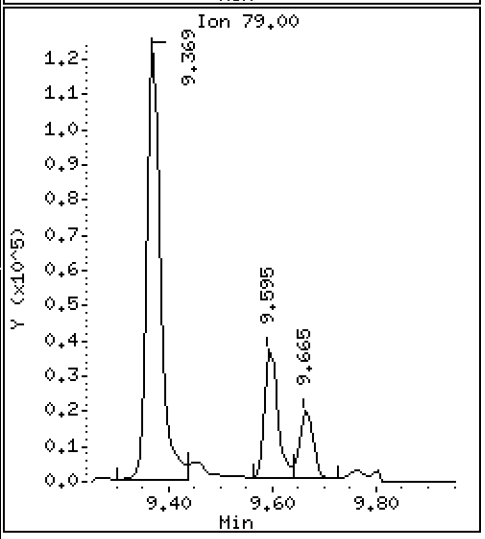
13 2-Methylphenol

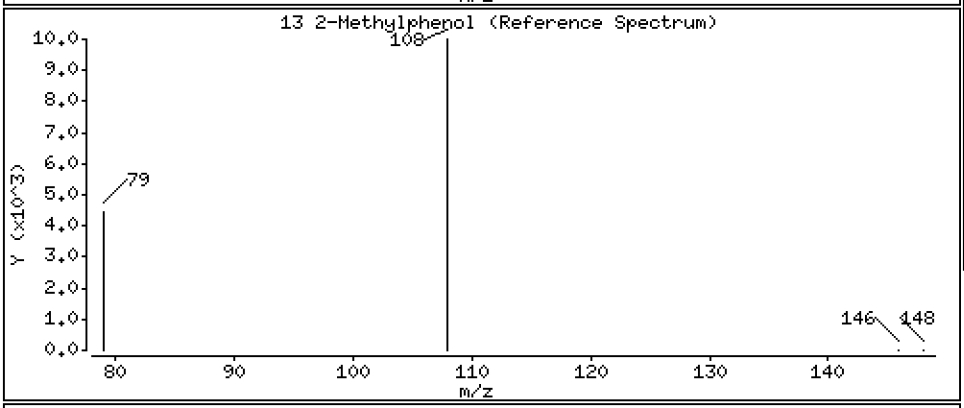
Concentration: 2.582 ug/L

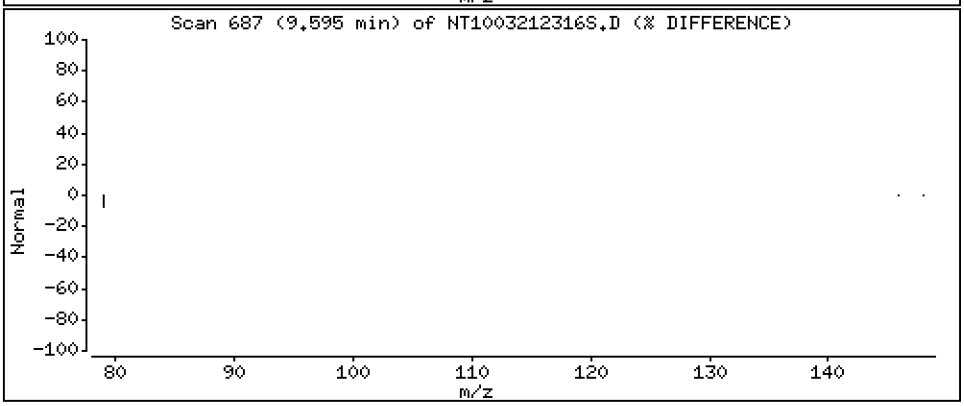












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212316S.D

Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD2

Volume Injected (uL): 1.0

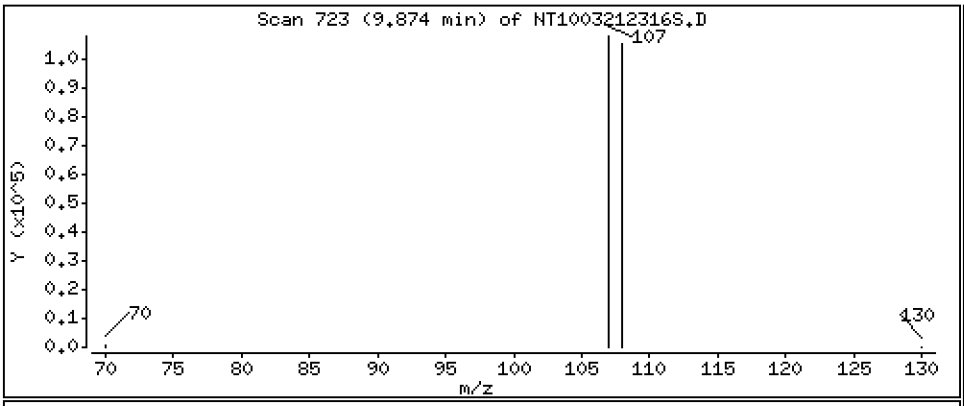
Operator: JGR

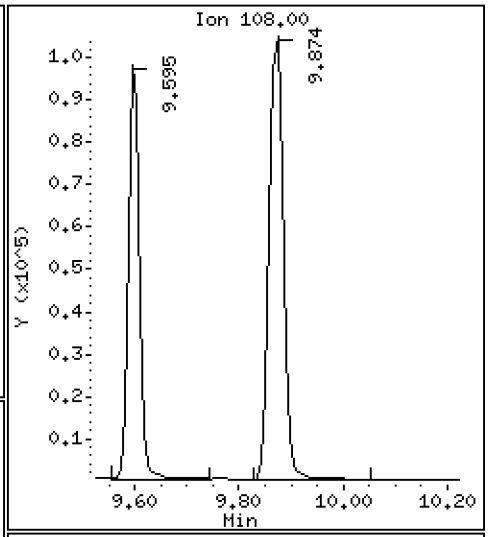
Column phase: ZB-5msi

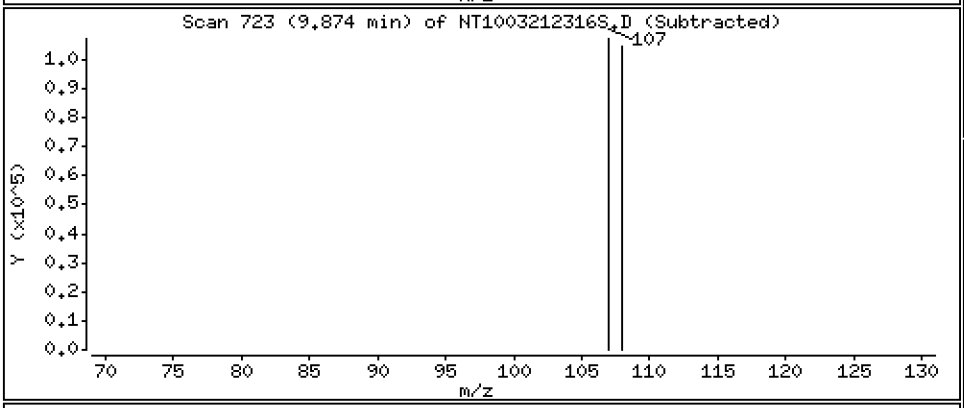
Column diameter: 0.25

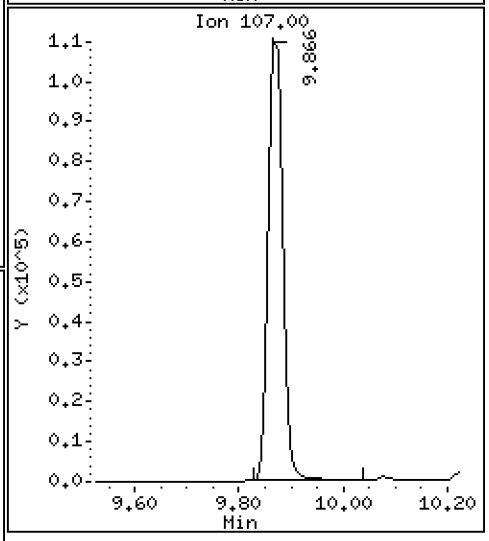
15 4-Methylphenol

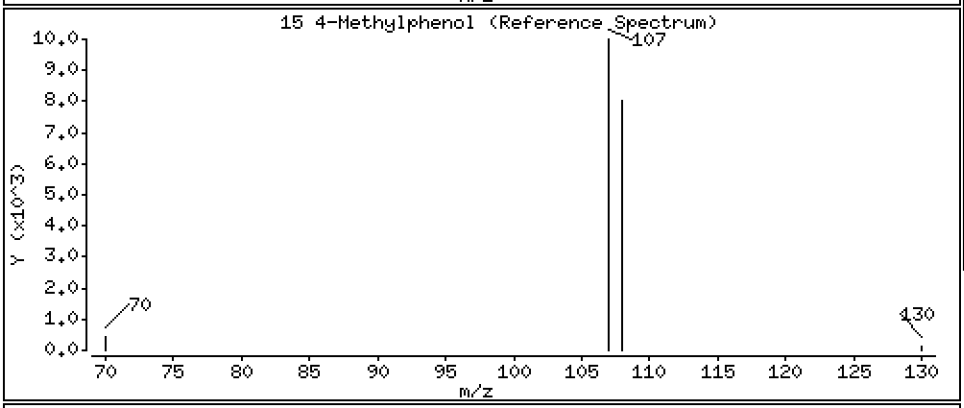
Concentration: 3.136 ug/L

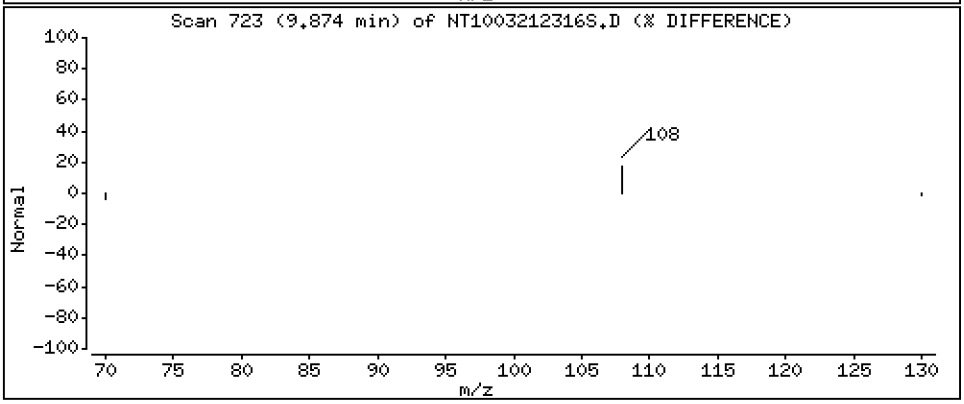












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212316S.D

Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD2

Volume Injected (uL): 1.0

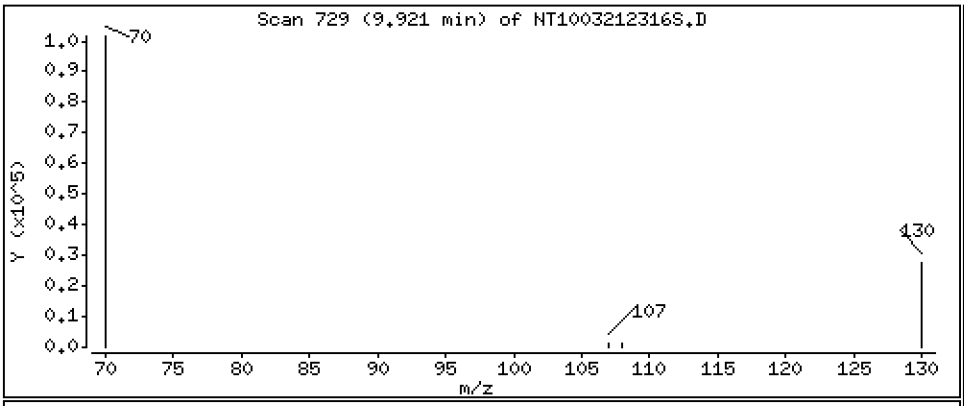
Operator: JGR

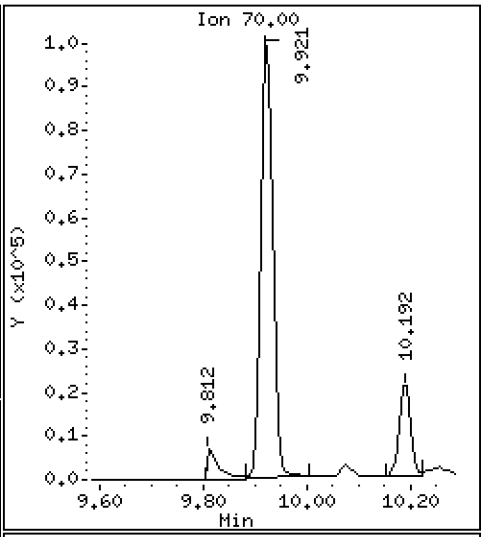
Column phase: ZB-5msi

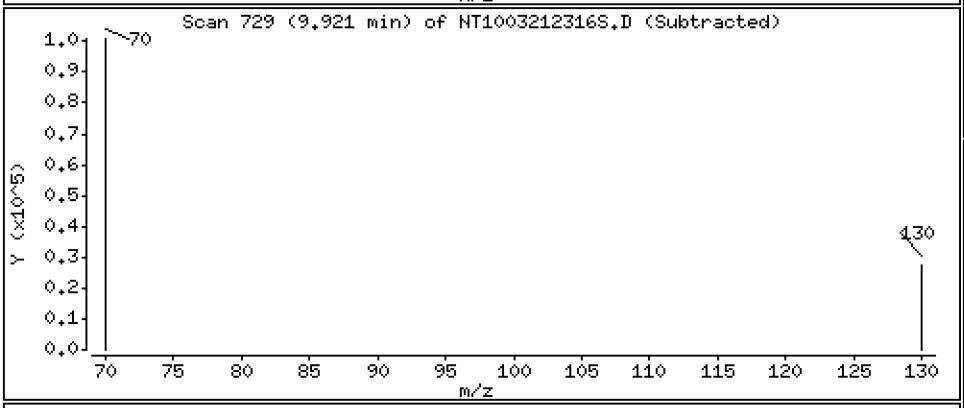
Column diameter: 0.25

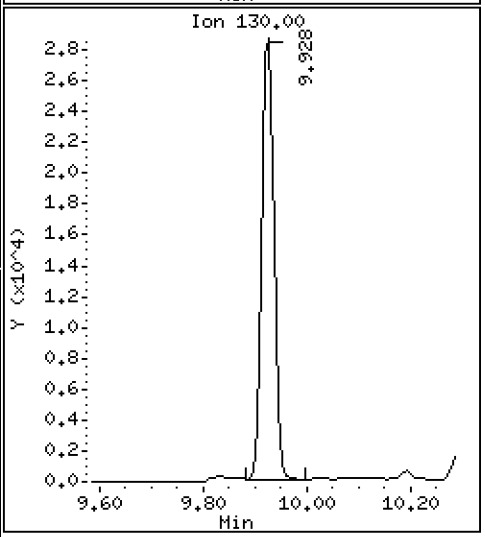
16 N-Nitroso-di-n-propylamine

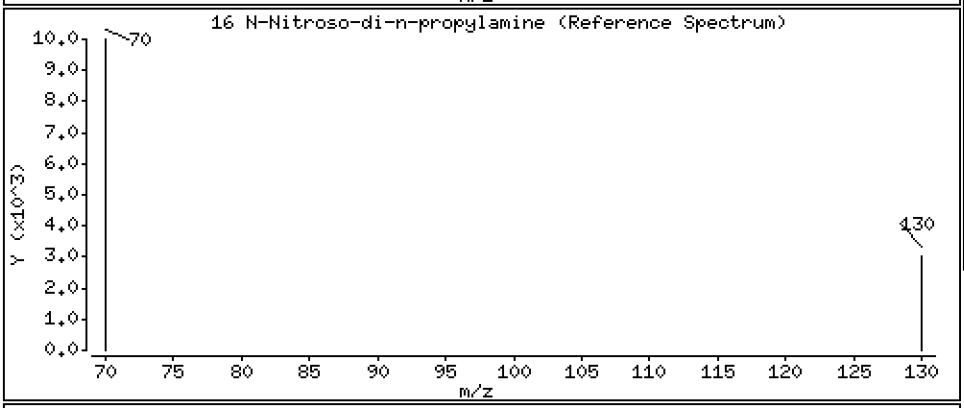
Concentration: 3.628 ug/L

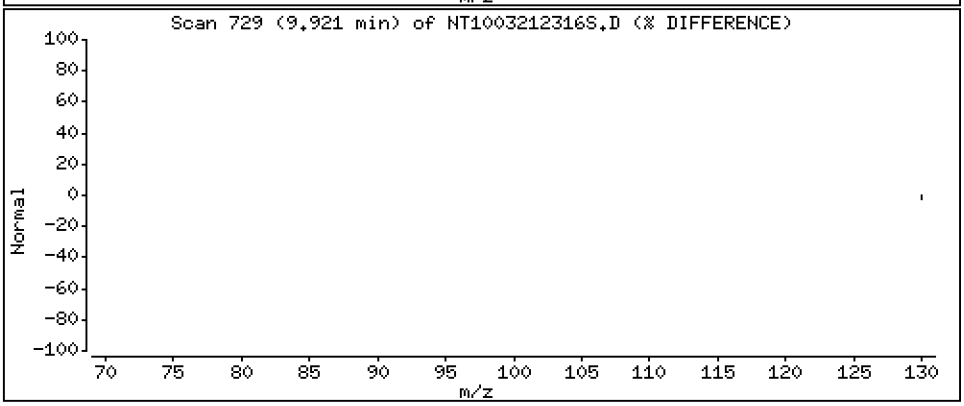












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT10032123165.D

Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD2

Volume Injected (uL): 1.0

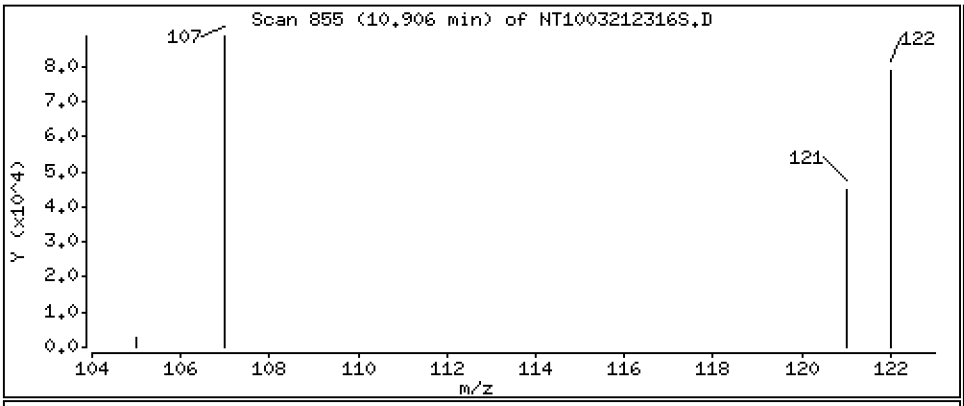
Operator: JGR

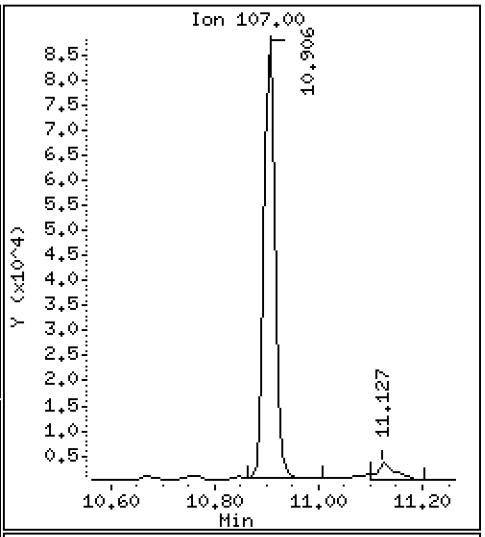
Column phase: ZB-5msi

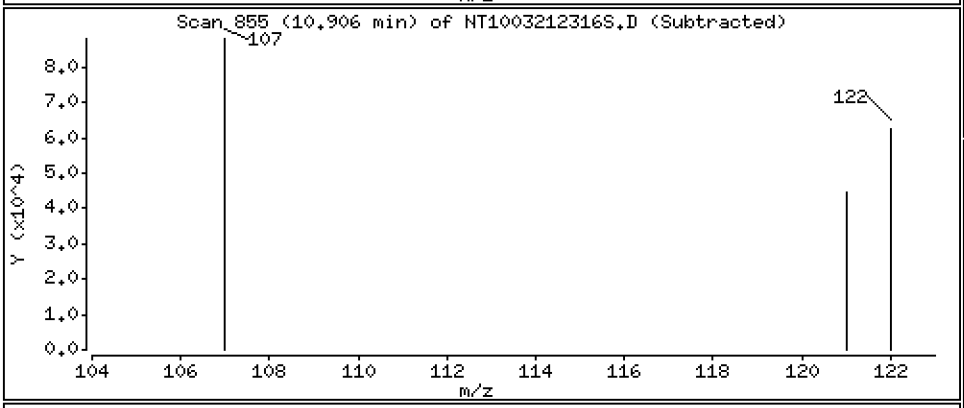
Column diameter: 0.25

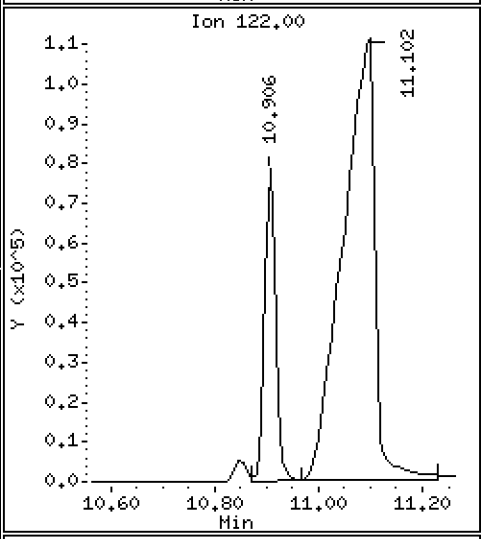
22 2,4-Dimethylphenol

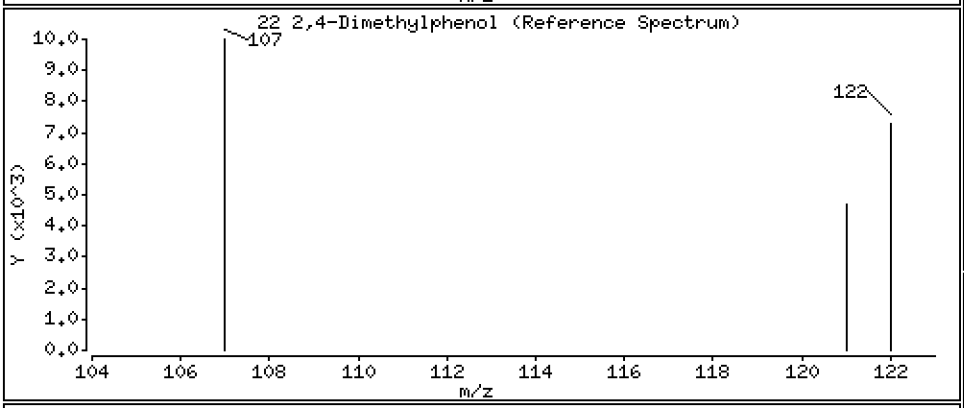
Concentration: 2.068 ug/L

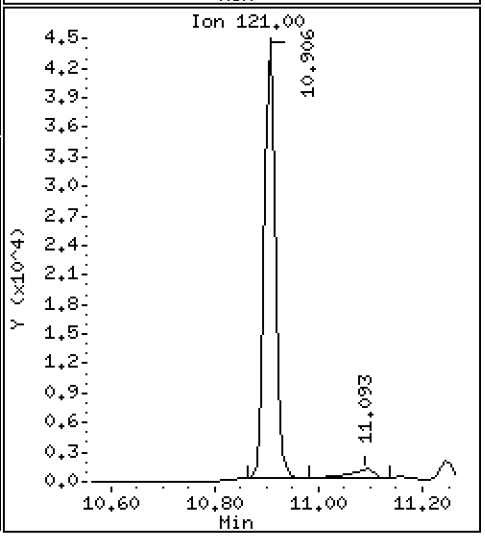


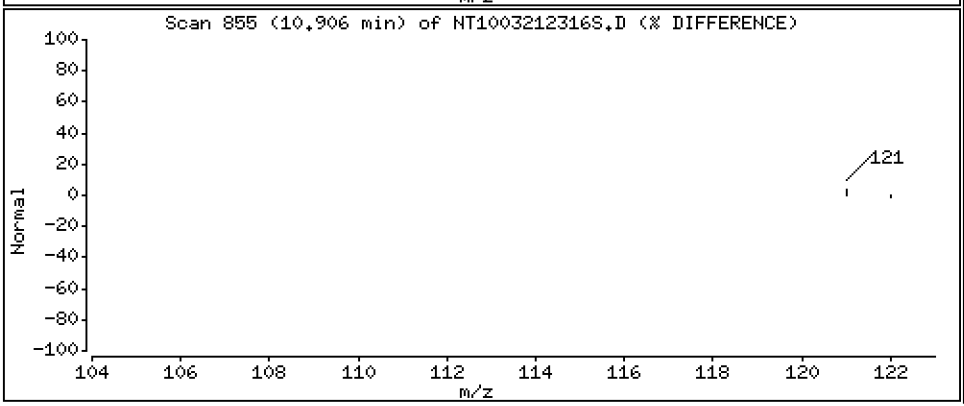












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Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD2

Volume Injected (uL): 1.0

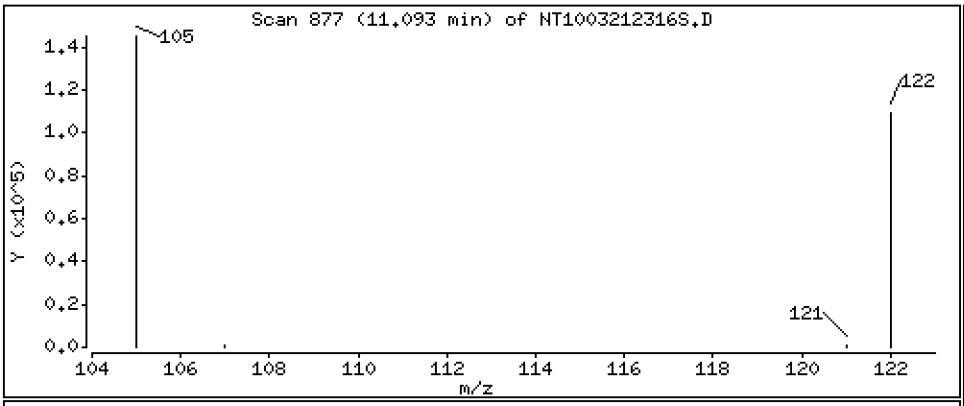
Operator: JGR

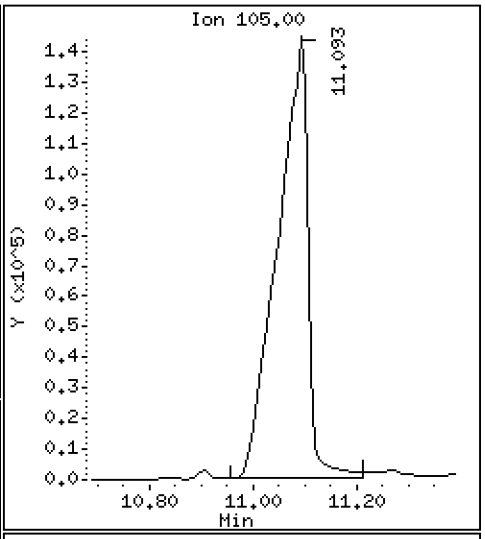
Column phase: ZB-5msi

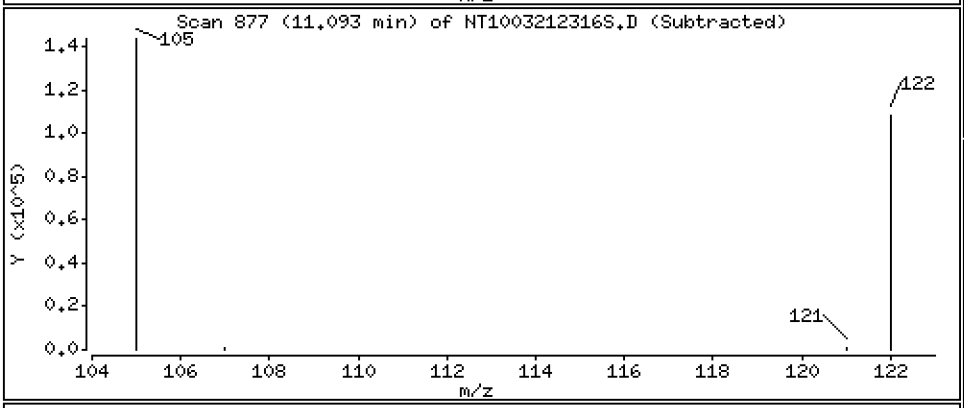
Column diameter: 0.25

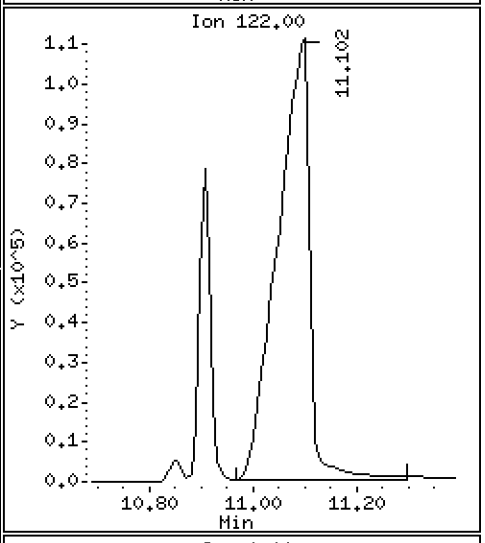
24 Benzoic acid

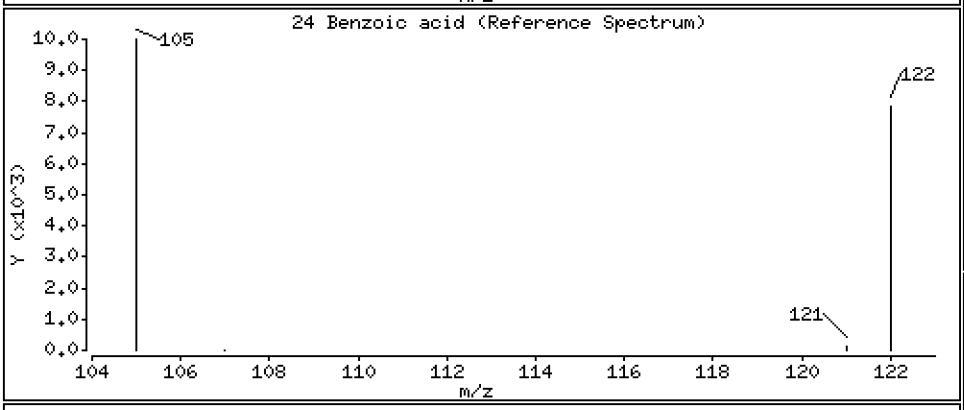
Concentration: 15.93 ug/L

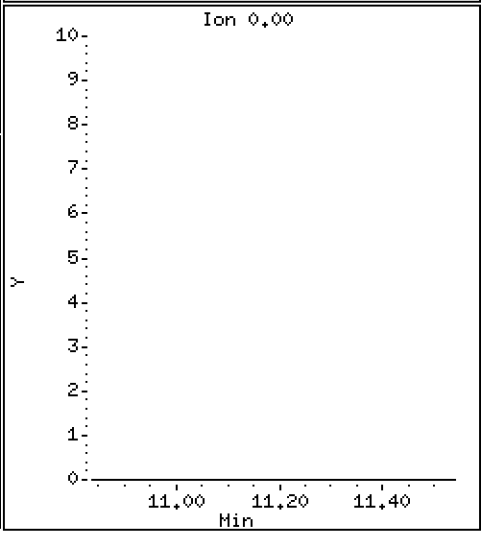


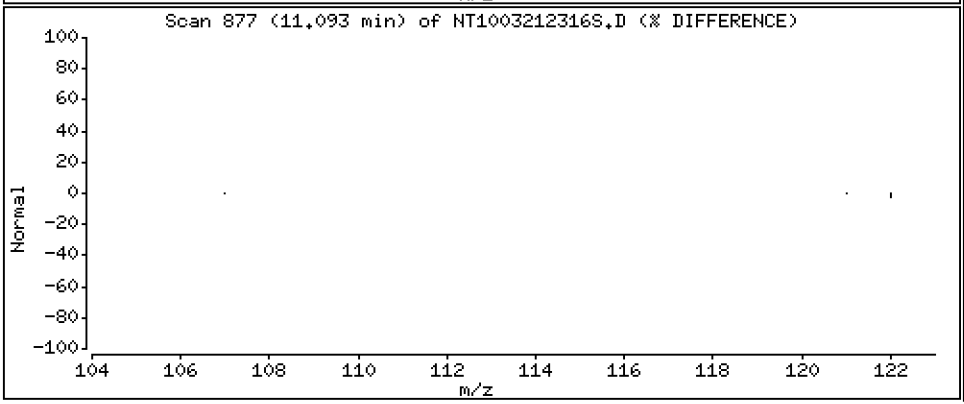












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT10032123165.D

Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD2

Volume Injected (uL): 1.0

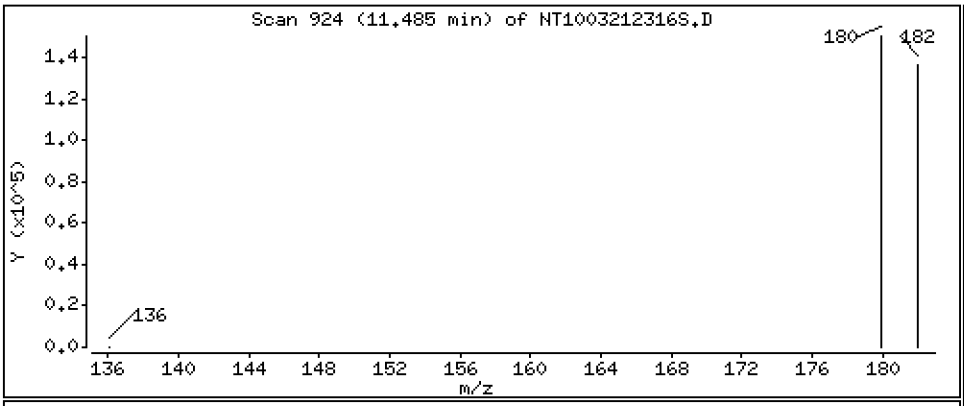
Operator: JGR

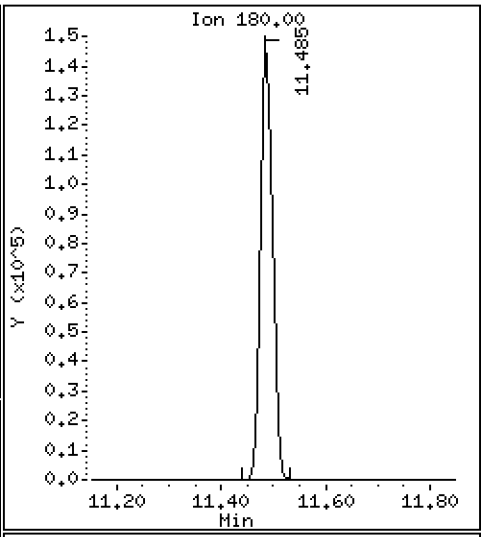
Column phase: ZB-5msi

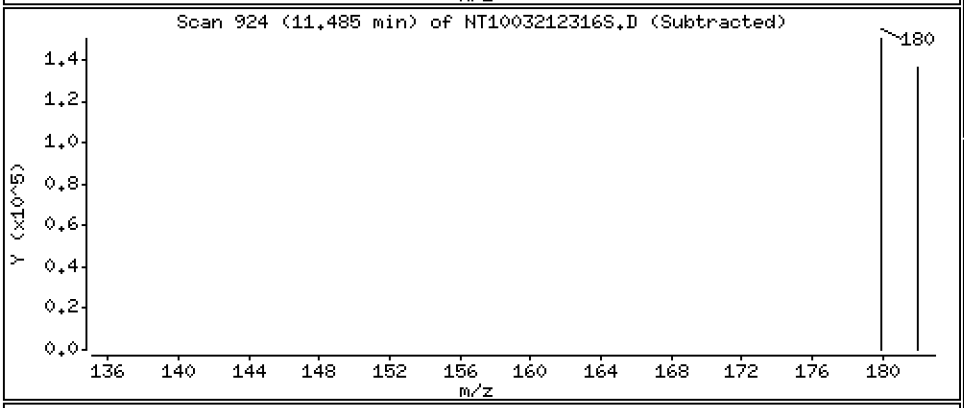
Column diameter: 0.25

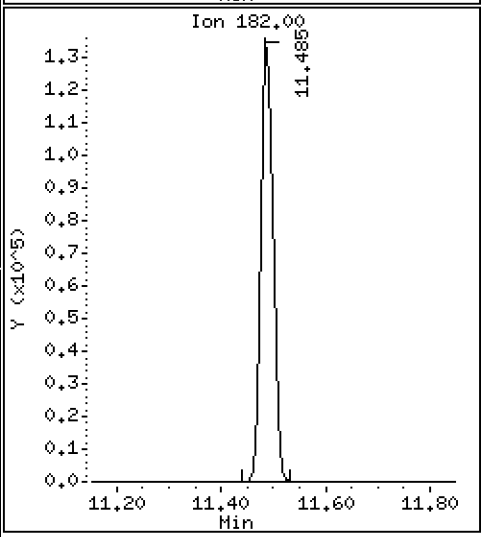
26 1,2,4-Trichlorobenzene

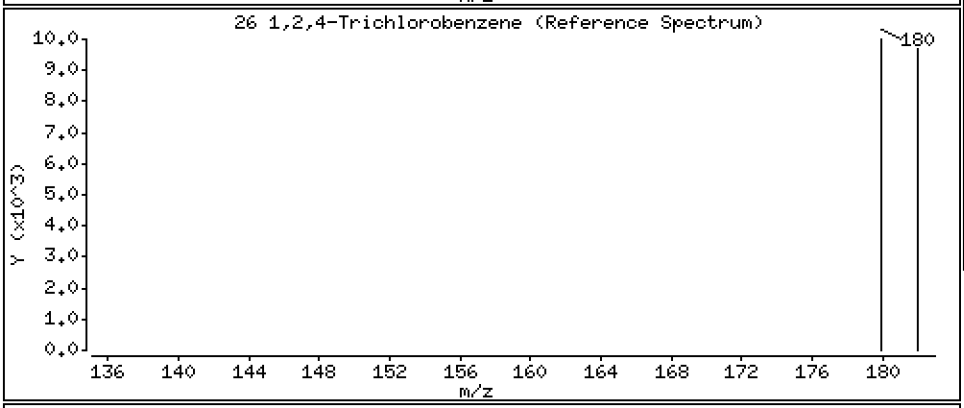
Concentration: 3.581 ug/L

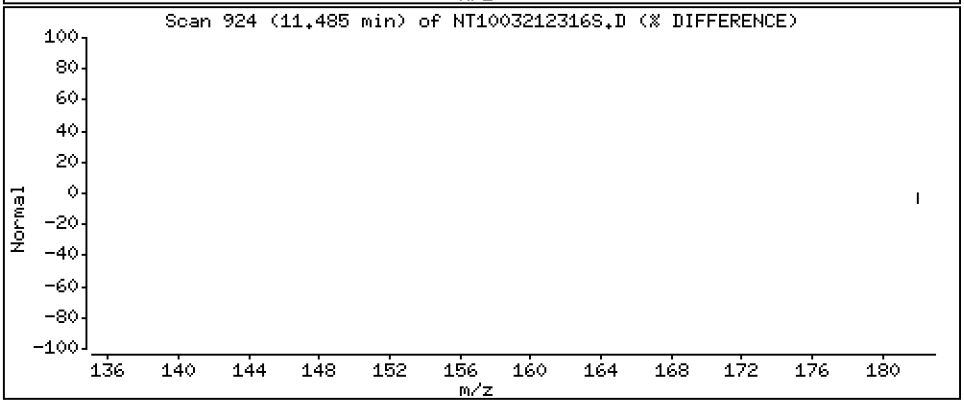












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT10032123165.D

Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD2

Volume Injected (uL): 1.0

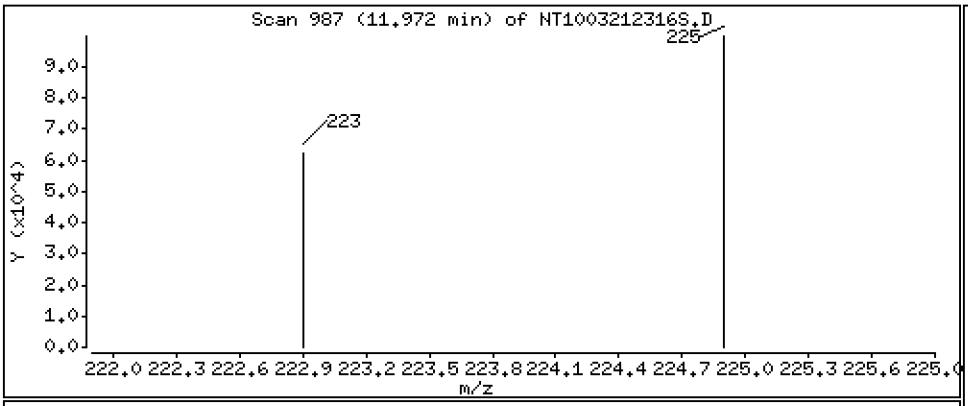
Operator: JGR

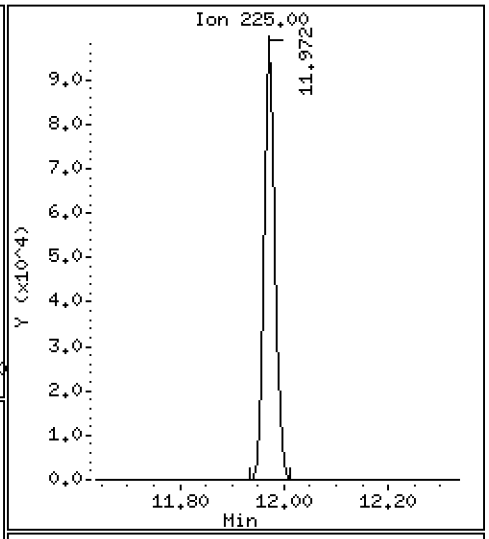
Column phase: ZB-5msi

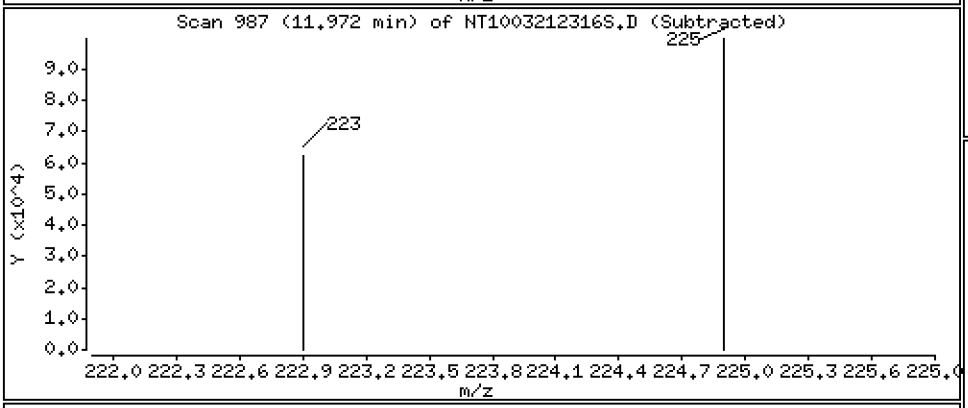
Column diameter: 0.25

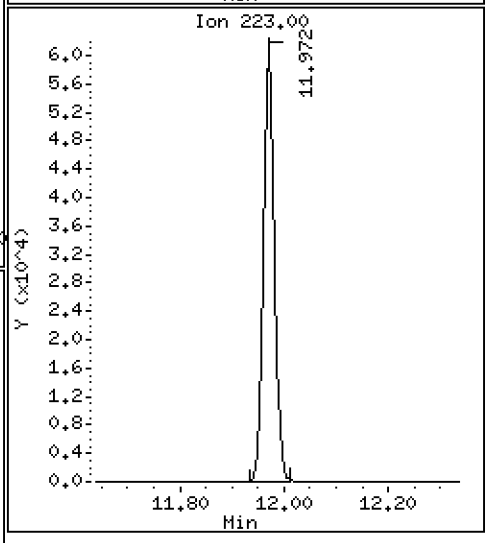
30 Hexachlorobutadiene

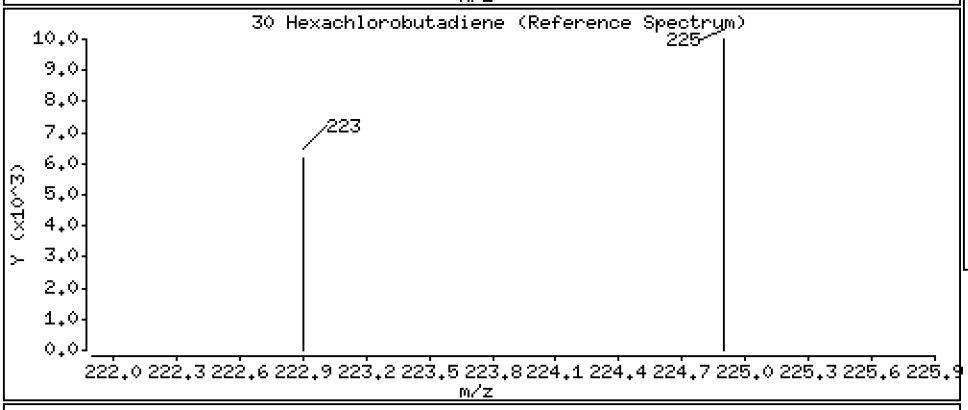
Concentration: 3.726 ug/L

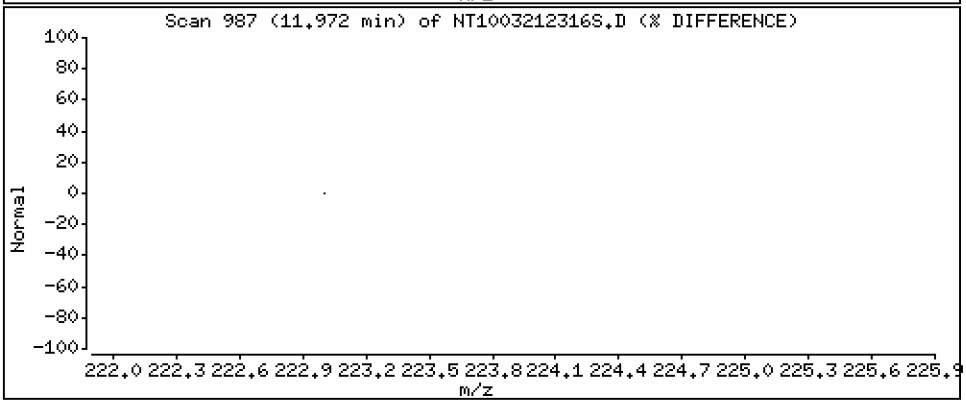












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212316S.D

Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD2

Volume Injected (uL): 1.0

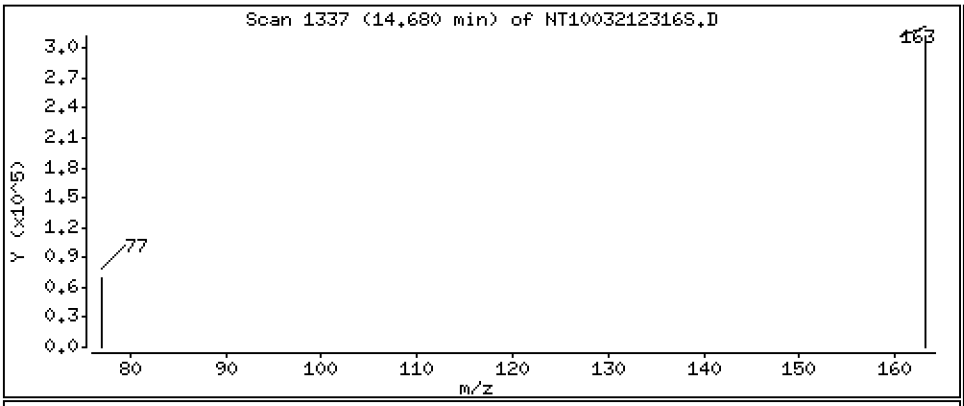
Operator: JGR

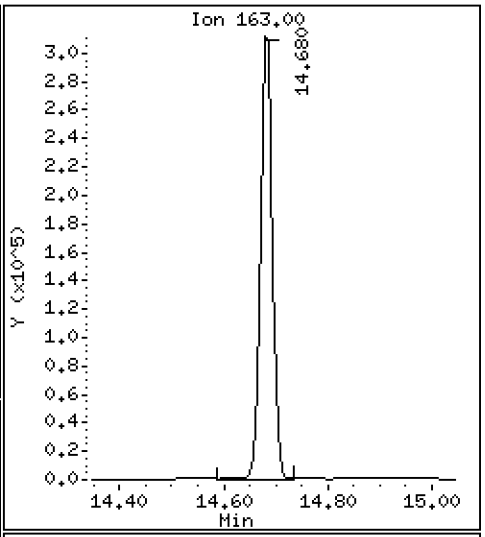
Column phase: ZB-5msi

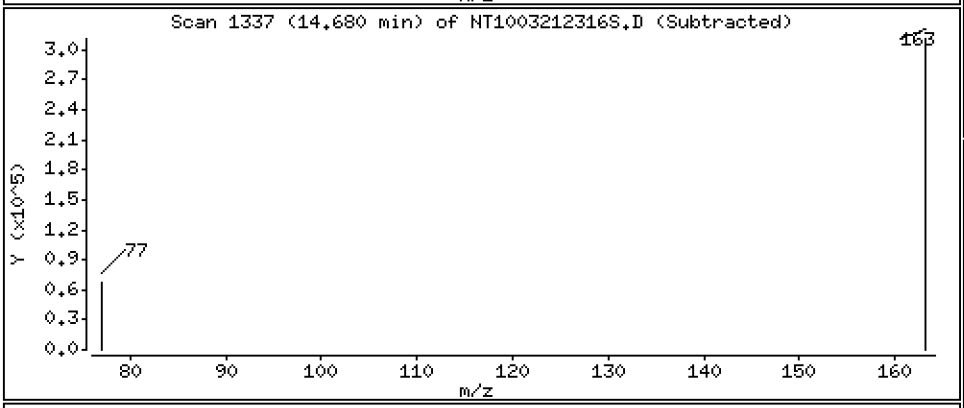
Column diameter: 0.25

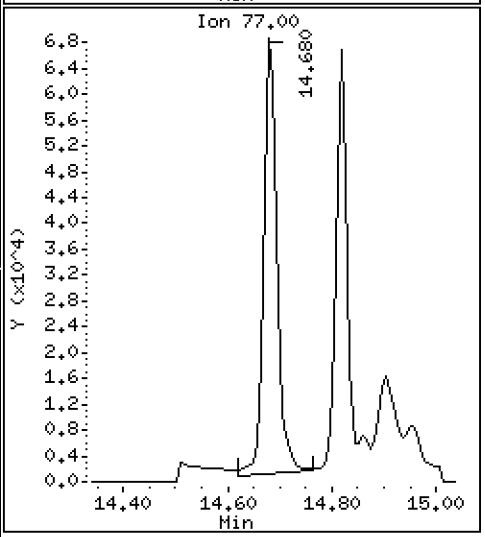
39 Dimethylphthalate

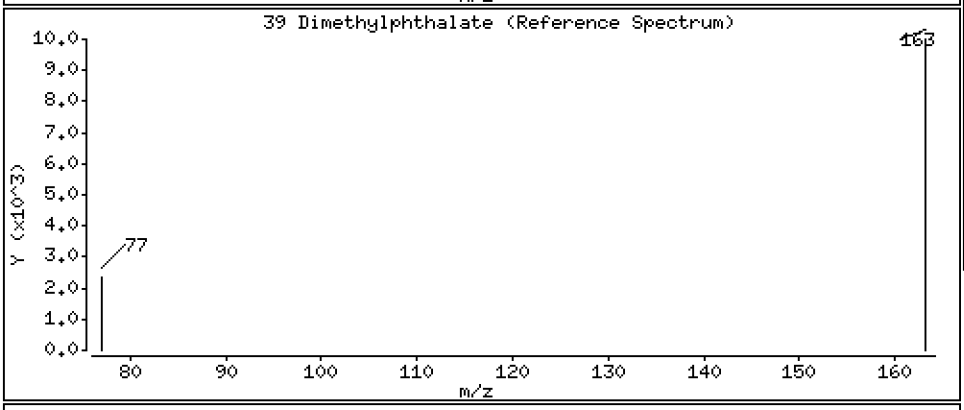
Concentration: 4.318 ug/L

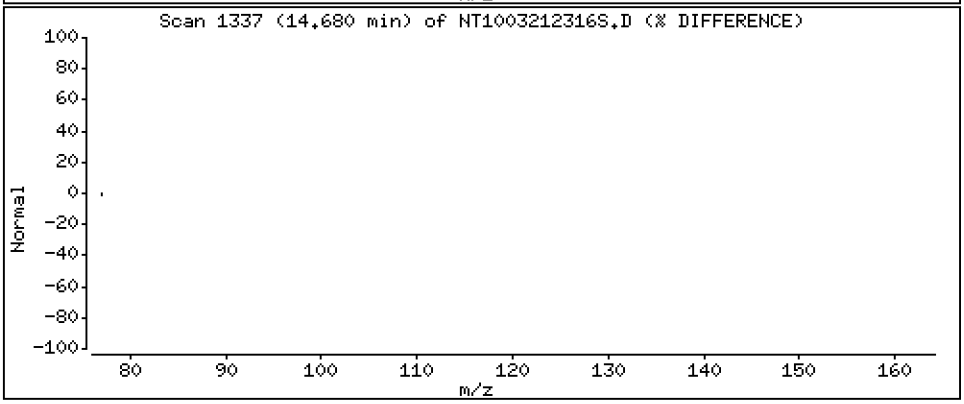












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212316S.D

Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD2

Volume Injected (uL): 1.0

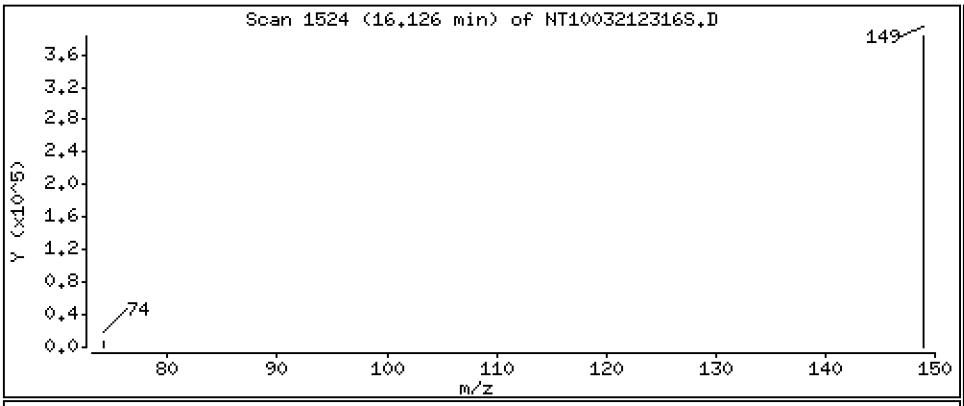
Operator: JGR

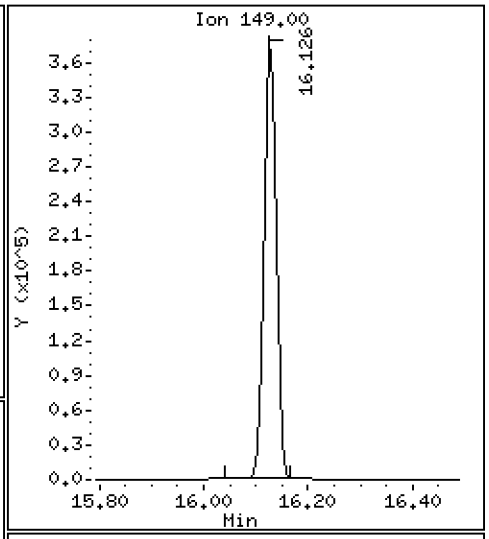
Column phase: ZB-5msi

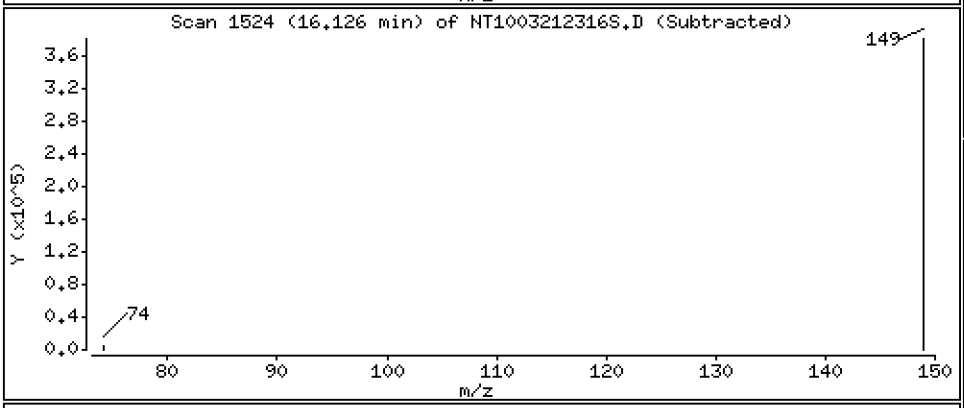
Column diameter: 0.25

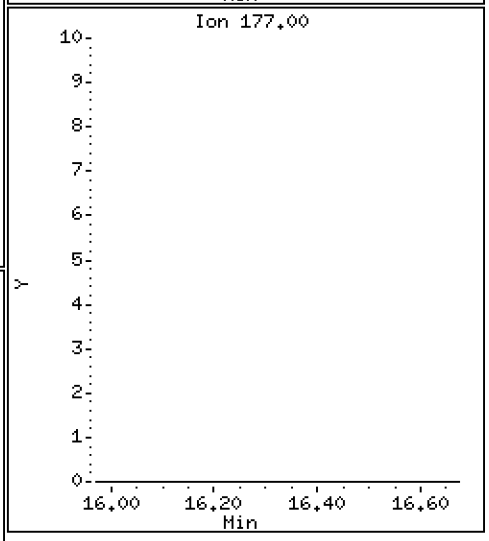
50 Diethylphthalate

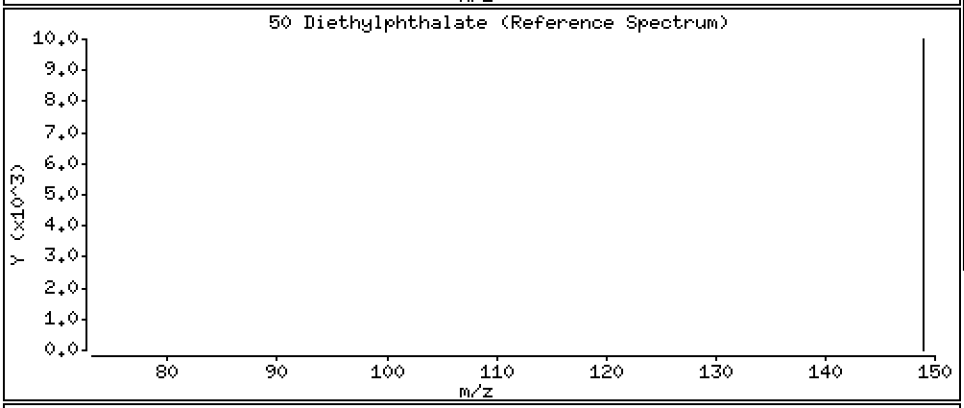
Concentration: 4.989 ug/L

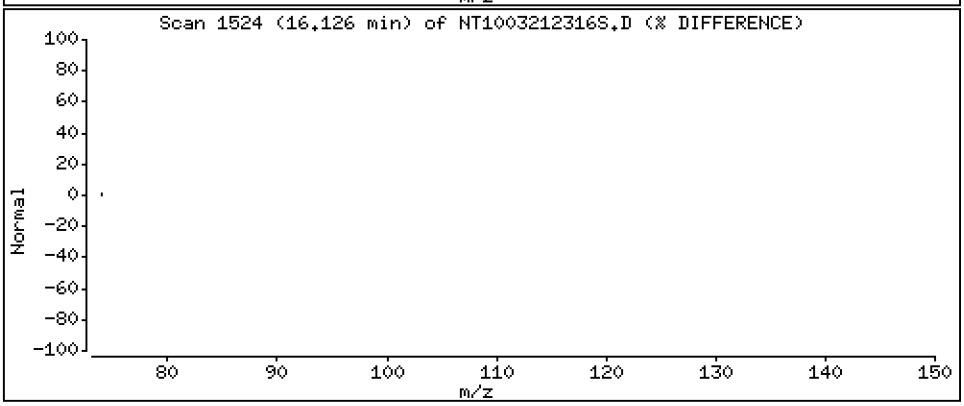












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212316S.D

Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD2

Volume Injected (uL): 1.0

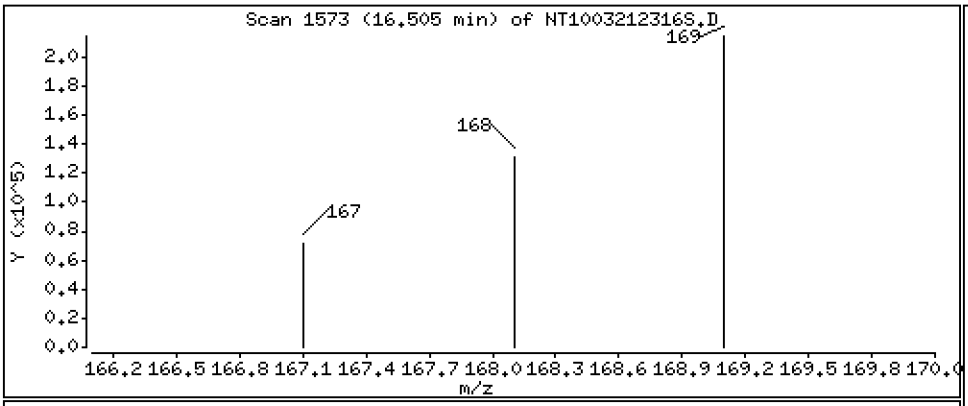
Operator: JGR

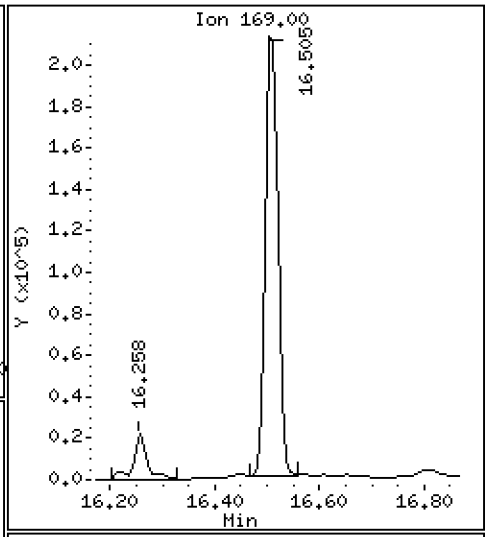
Column phase: ZB-5msi

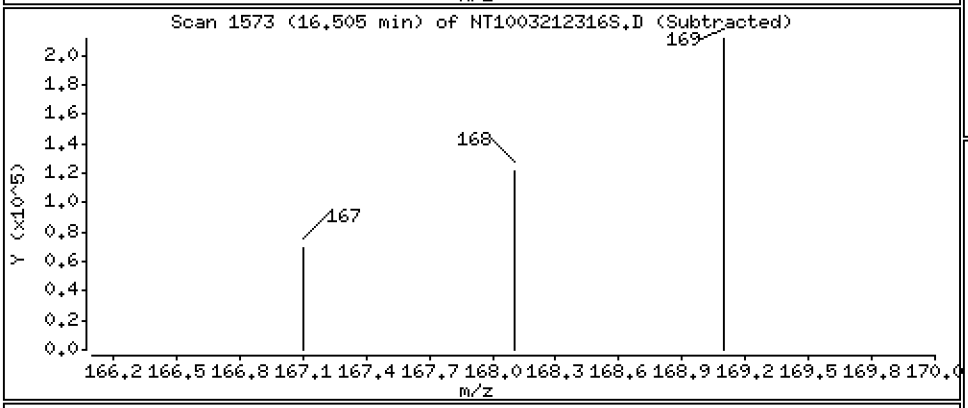
Column diameter: 0.25

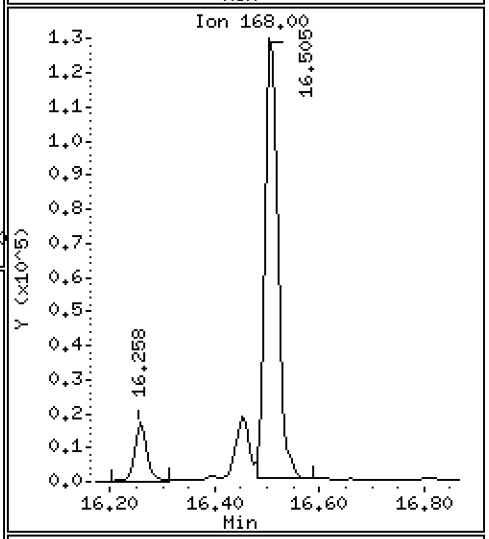
54 N-Nitrosodiphenylamine

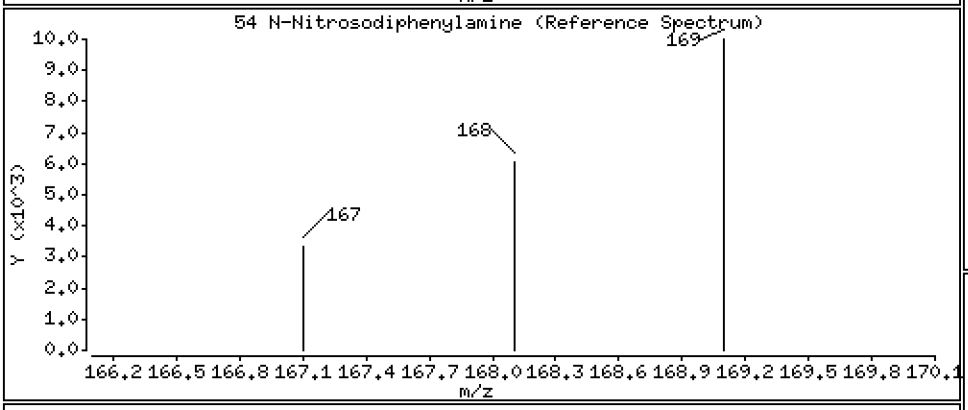
Concentration: 3.308 ug/L

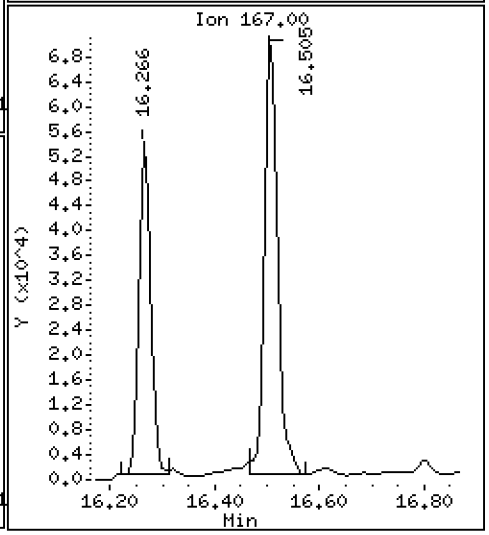


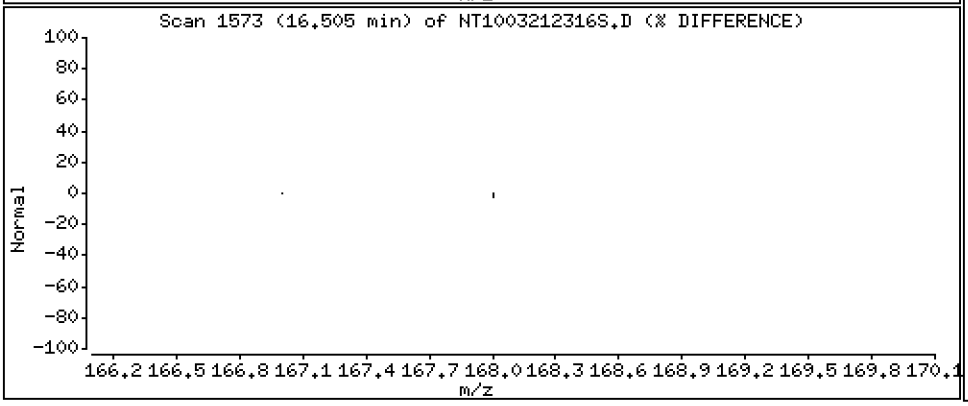












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212316S.D

Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD2

Volume Injected (uL): 1.0

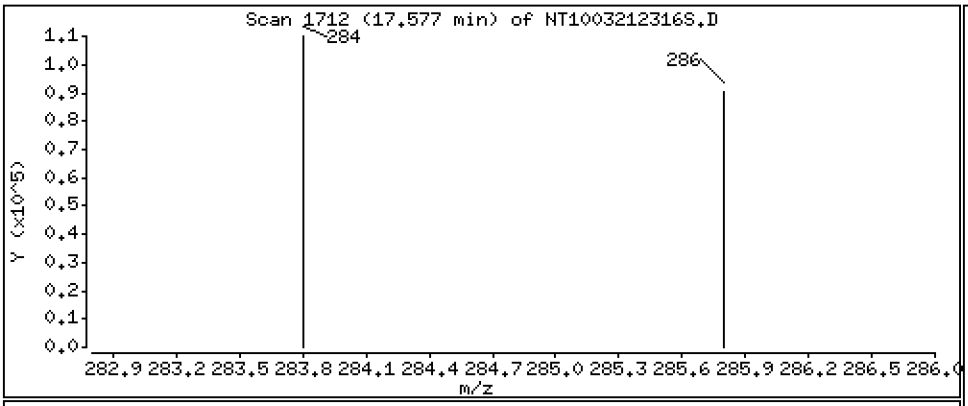
Operator: JGR

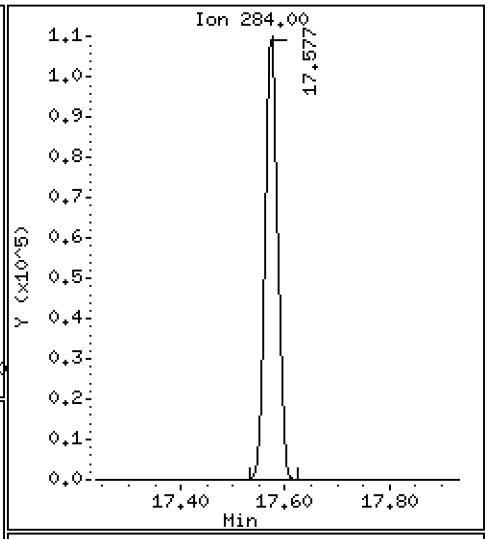
Column phase: ZB-5msi

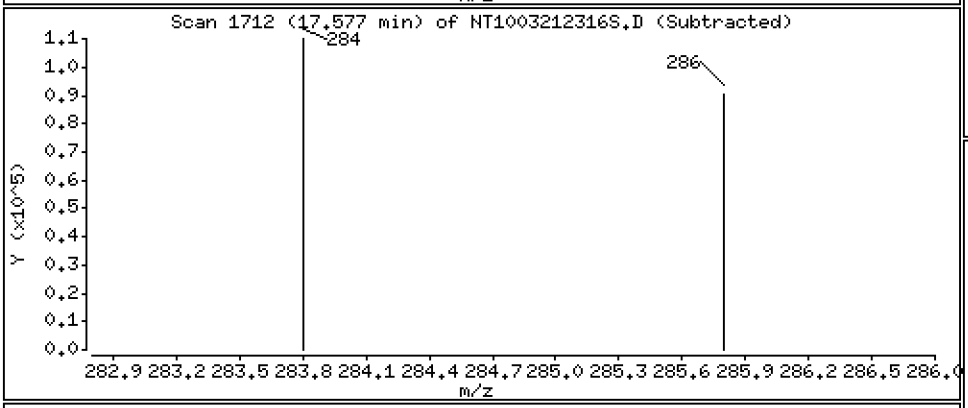
Column diameter: 0.25

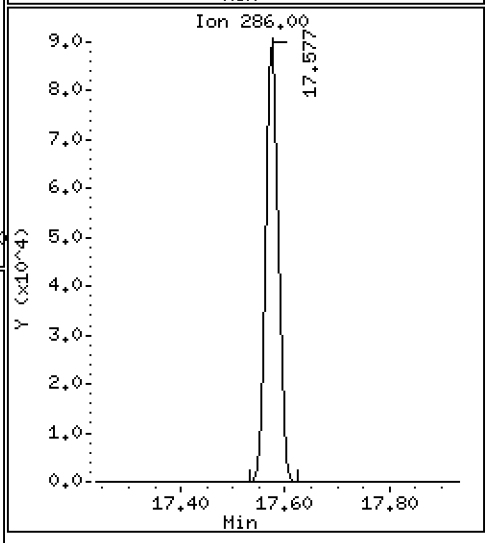
57 Hexachlorobenzene

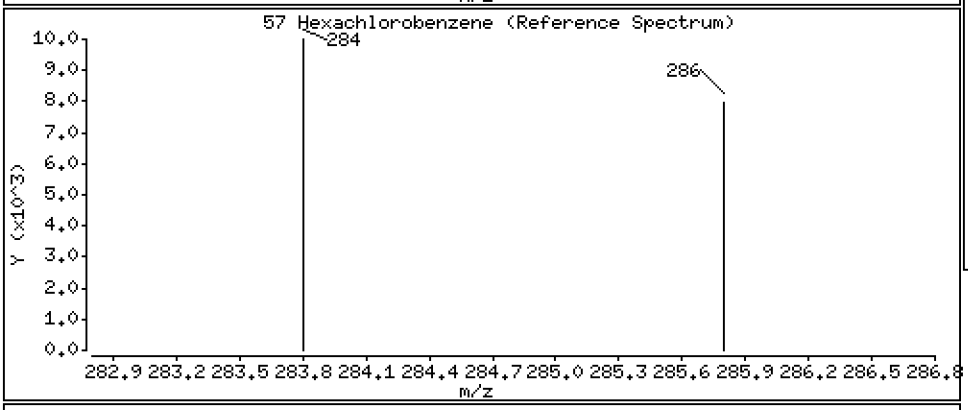
Concentration: 3.996 ug/L

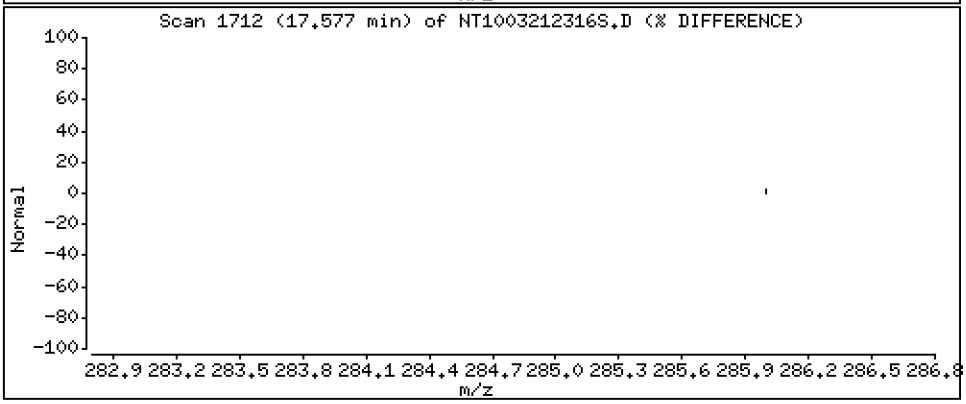












Date : 22-MAR-2023 02:46

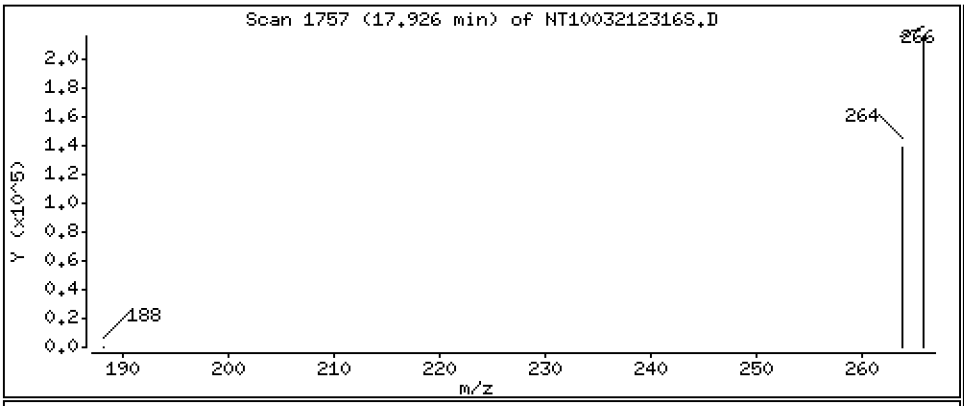
Client ID: Instrument: nt10.i

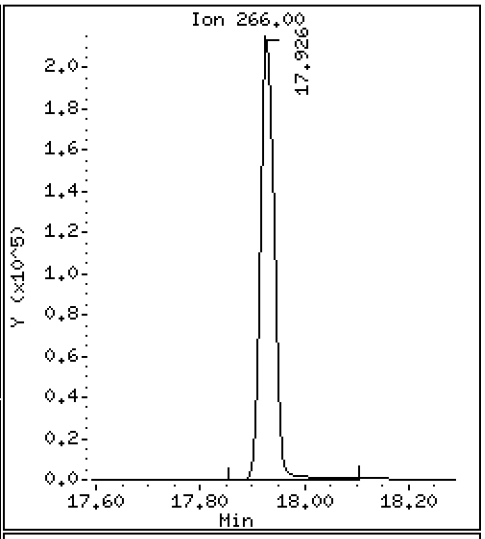
Sample Info: BLC0109-MSD2

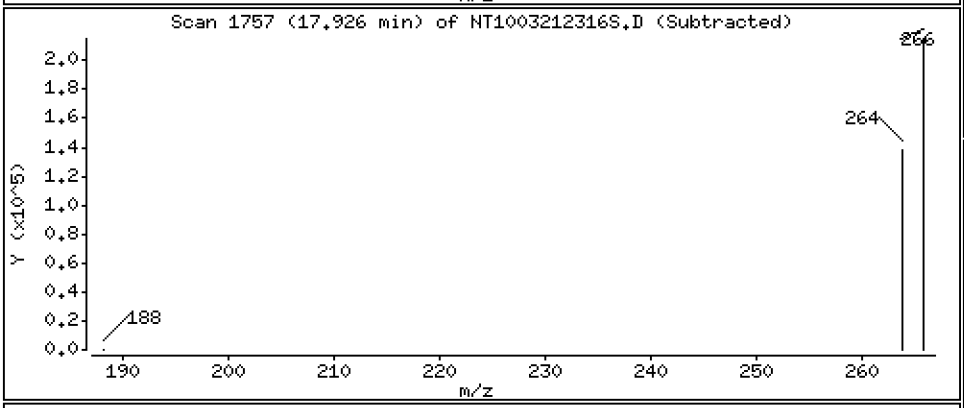
Volume Injected (uL): 1.0 Operator: JGR

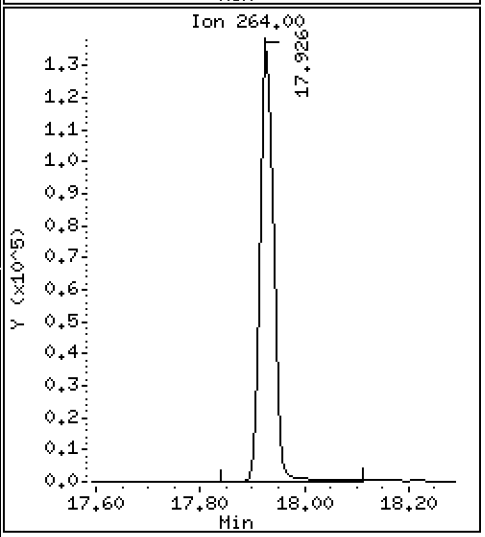
Column phase: ZB-5msi Column diameter: 0.25

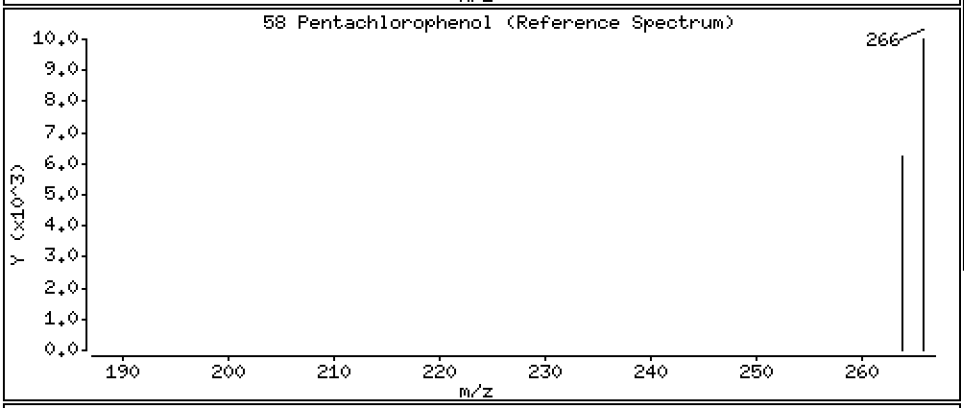
58 Pentachlorophenol Concentration: 13.65 ug/L

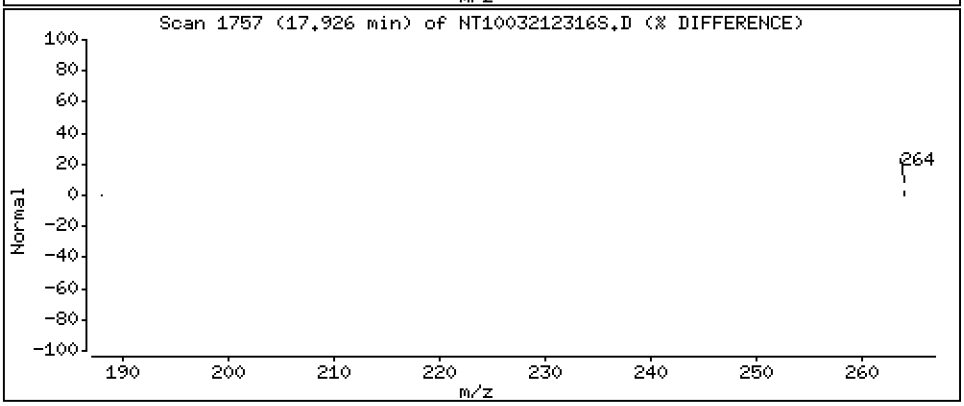












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212316S.D

Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD2

Volume Injected (uL): 1.0

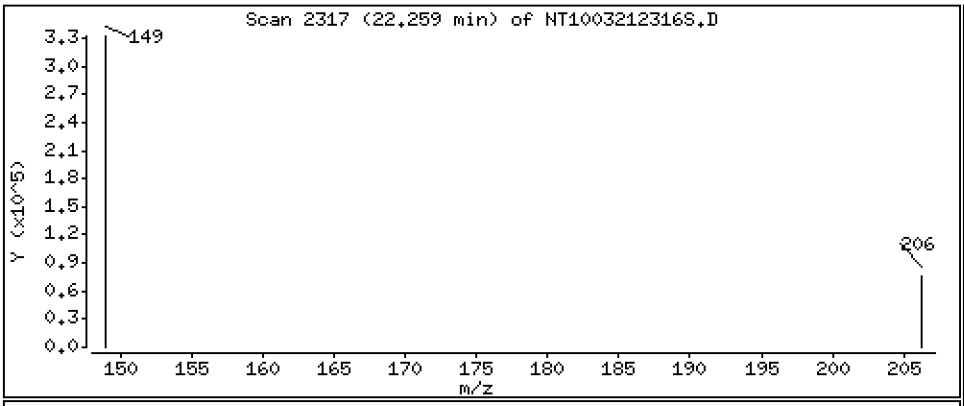
Operator: JGR

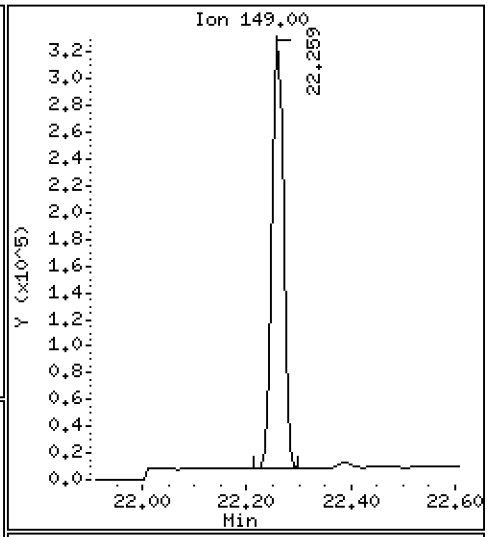
Column phase: ZB-5msi

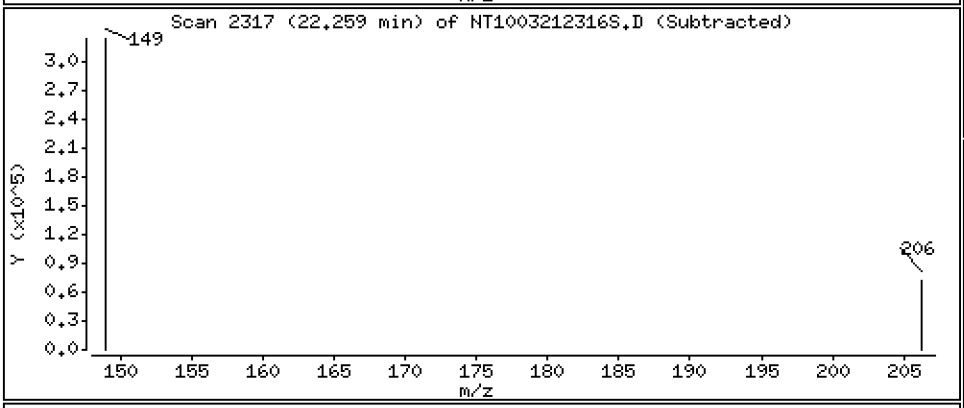
Column diameter: 0.25

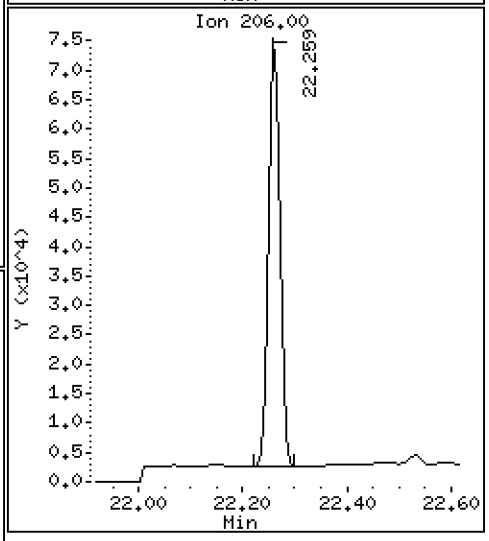
67 Butylbenzylphthalate

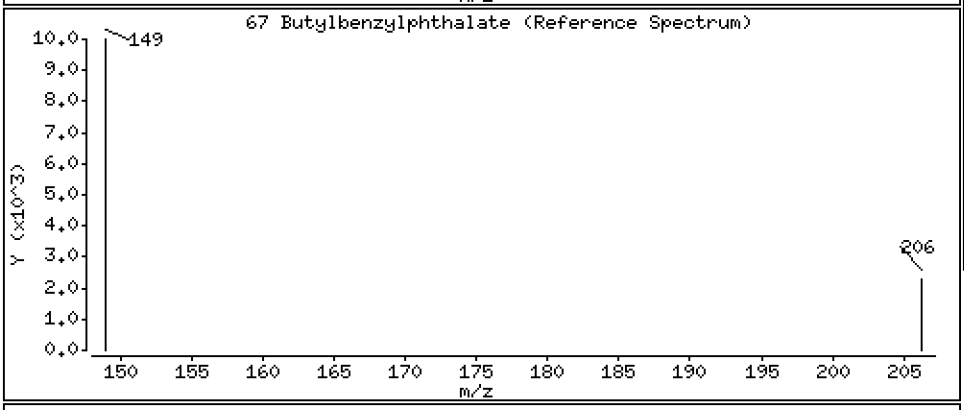
Concentration: 4.827 ug/L

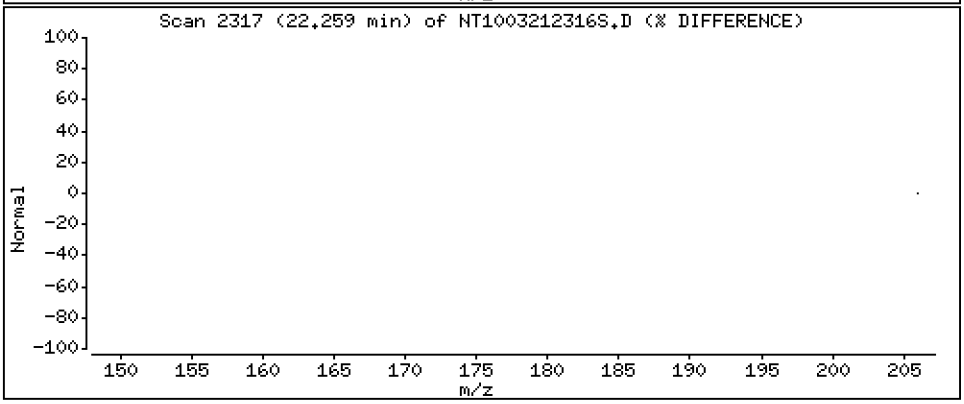












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212316S.D

Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD2

Volume Injected (uL): 1.0

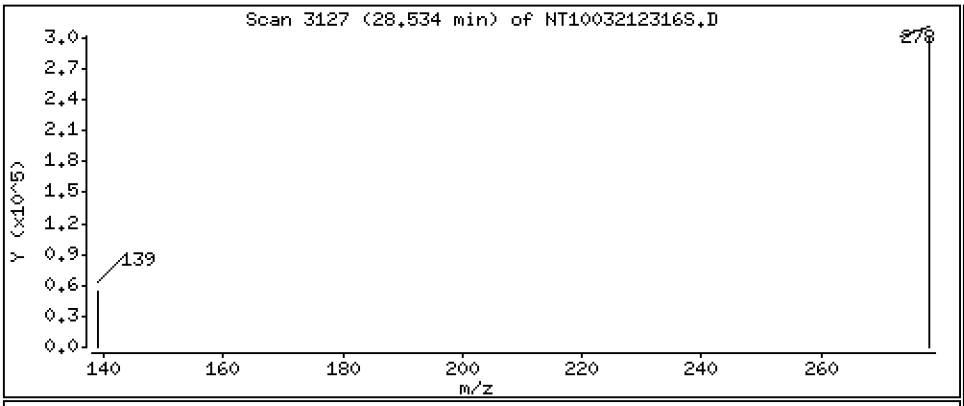
Operator: JGR

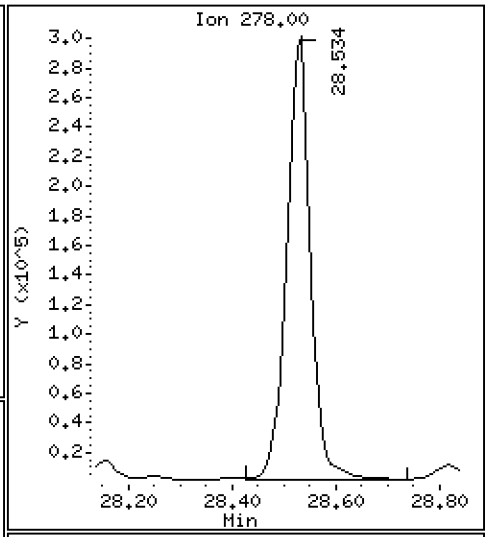
Column phase: ZB-5msi

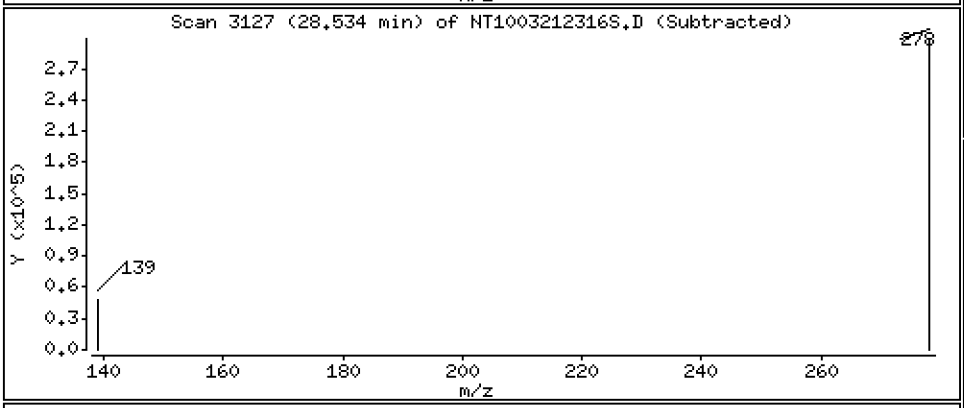
Column diameter: 0.25

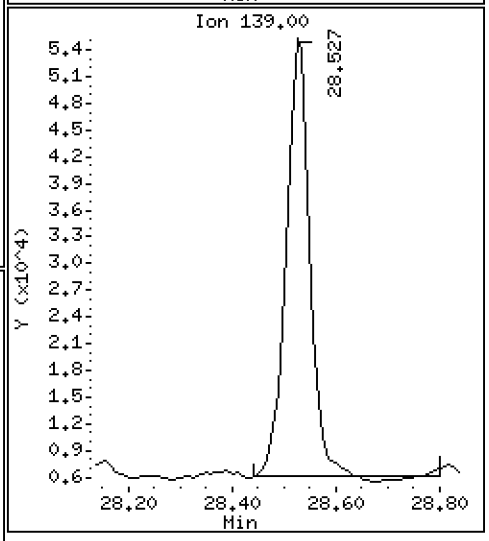
79 Dibenzo(a,h)anthracene

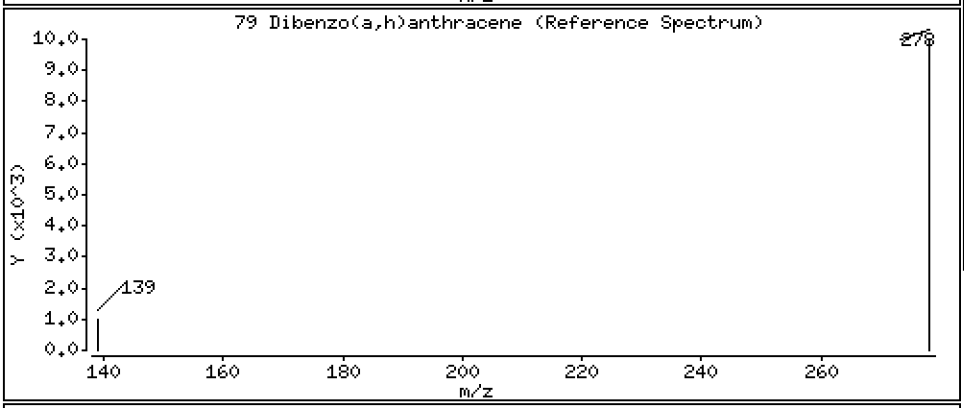
Concentration: 3.715 ug/L

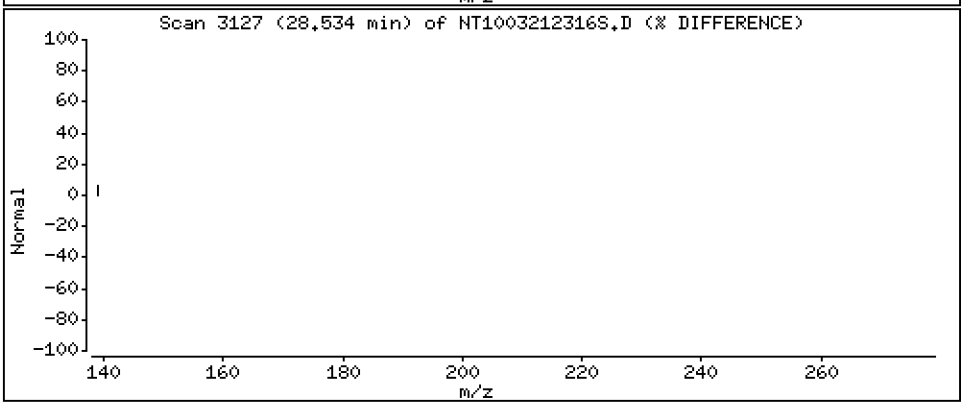












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT10032123165.D

Date : 22-MAR-2023 02:46

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-MSD2

Volume Injected (uL): 1.0

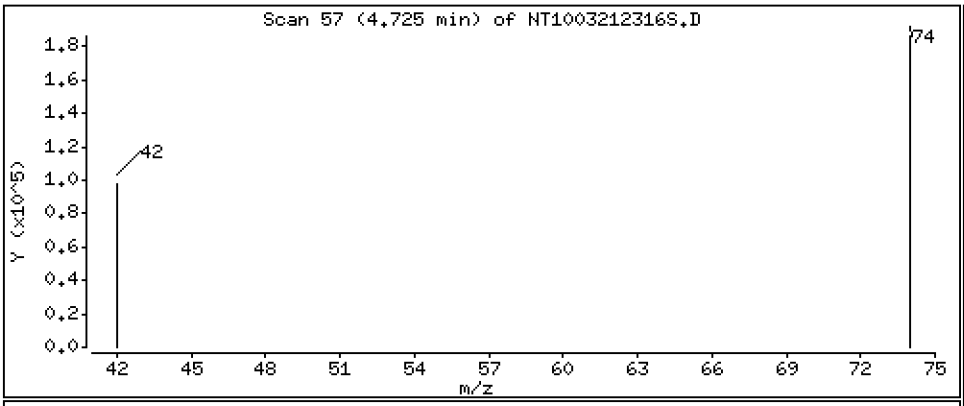
Operator: JGR

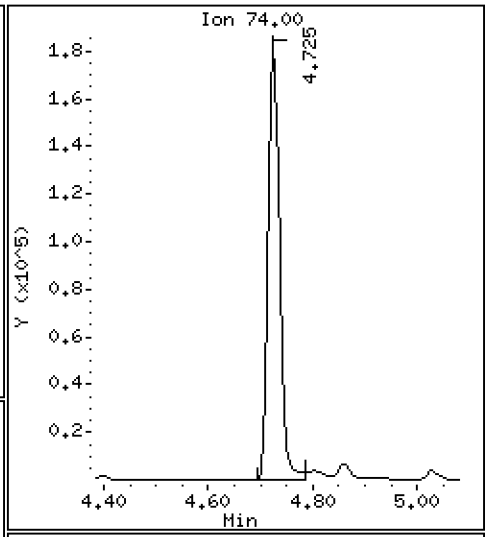
Column phase: ZB-5msi

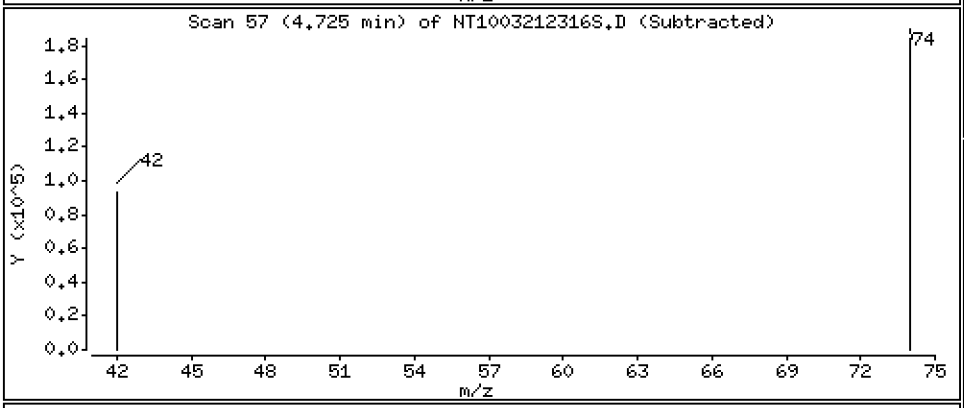
Column diameter: 0.25

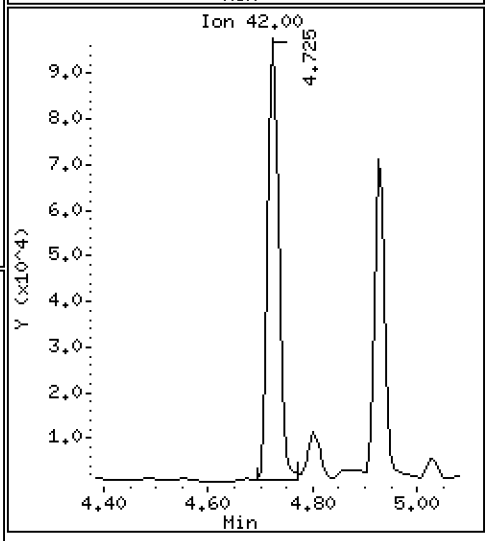
90 N-Nitrosodimethylamine

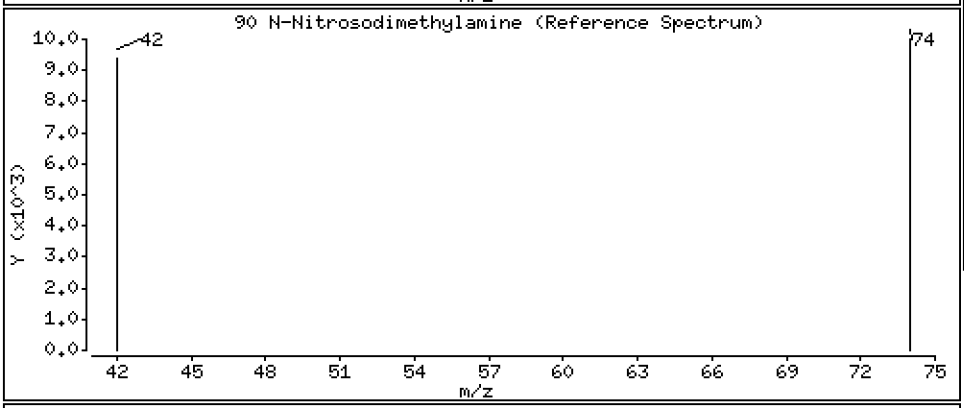
Concentration: 6.664 ug/L

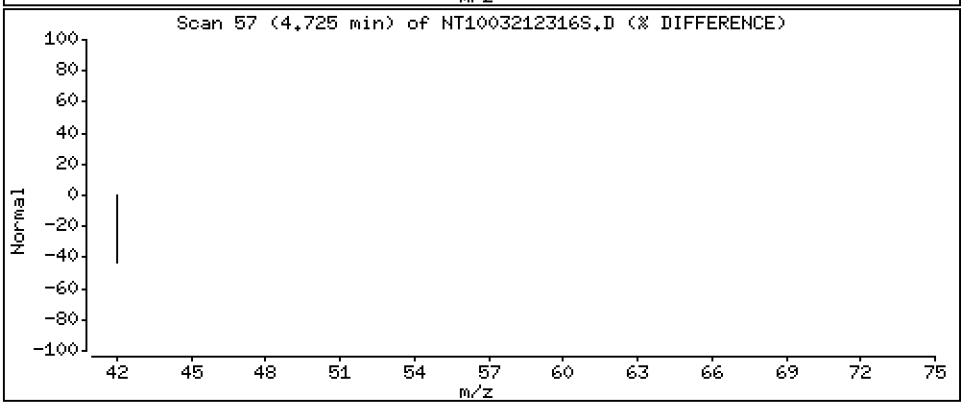












ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212316S.D
Lab Smp Id: BLC0109-MSD2
Inj Date : 22-MAR-2023 02:46 MS Autotune Date: 16-JAN-2023 17:42
Operator : JGR Inst ID: nt10.i
Smp Info : BLC0109-MSD2
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230321.b\20230321.b\SIMABN2.m
Meth Date : 29-Mar-2023 09:55 van Quant Type: ISTD
Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
$ 1	2-Fluorophenol	112	6.887	6.895	(0.757)	310006	5.02870	5.029(R)
3	Phenol	94	8.486	8.494	(0.933)	273338	3.23185	3.232
7	1,3-Dichlorobenzene	146	9.035	9.043	(0.993)	258522	3.26660	3.267
* 8	1,4-Dichlorobenzene-d4	152	9.097	9.105	(1.000)	203292	4.00000	
9	1,4-Dichlorobenzene	146	9.128	9.136	(1.003)	257867	3.37535	3.375
11	Benzyl alcohol	79	9.369	9.377	(1.030)	214165	4.36786	4.368
12	1,2-Dichlorobenzene	146	9.485	9.493	(1.043)	252166	3.35629	3.356
13	2-Methylphenol	108	9.594	9.602	(1.055)	151286	2.58150	2.582
15	4-Methylphenol	108	9.874	9.874	(1.085)	190958	3.13579	3.136
16	N-Nitroso-di-n-propylamine	70	9.920	9.936	(1.090)	156251	3.62816	3.628
22	2,4-Dimethylphenol	107	10.906	10.914	(0.943)	131091	2.06822	2.068
24	Benzoic acid	105	11.093	11.042	(0.959)	590934	15.9267	15.93
26	1,2,4-Trichlorobenzene	180	11.485	11.500	(0.993)	228340	3.58112	3.581
* 27	Naphthalene-d8	136	11.570	11.585	(1.000)	733288	4.00000	
30	Hexachlorobutadiene	225	11.971	11.987	(1.035)	144429	3.72567	3.726
39	Dimethylphthalate	163	14.680	14.695	(0.968)	494694	4.31770	4.318
* 42	Acenaphthene-d10	162	15.167	15.183	(1.000)	363068	4.00000	
50	Diethylphthalate	149	16.126	16.141	(1.063)	592182	4.98919	4.989
54	N-Nitrosodiphenylamine	169	16.504	16.520	(0.907)	341757	3.30771	3.308
57	Hexachlorobenzene	284	17.577	17.584	(0.966)	184816	3.99579	3.996

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	58 Pentachlorophenol	266	17.925	17.941	(0.986)	380880	13.6541	13.65
*	59 Phenanthrene-d10	188	18.188	18.196	(1.000)	770089	4.00000	
$	66 Terphenyl-d14	244	21.329	21.337	(0.918)	534320	4.72268	4.723(R)
	67 Butylbenzylphthalate	149	22.259	22.259	(0.958)	466307	4.82713	4.827
*	69 Chrysene-d12	240	23.234	23.234	(1.000)	694379	4.00000	
*	77 Perylene-d12	264	25.859	25.836	(1.000)	804055	4.00000	
	79 Dibenzo(a,h)anthracene	278	28.534	28.487	(1.103)	959773	3.71527	3.715
	90 N-Nitrosodimethylamine	74	4.724	4.732	(0.519)	260541	6.66363	6.664

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1003212316S.D
Lab Smp Id: BLC0109-MSD2
Analysis Type: SV
Quant Type: ISTD
Operator: JGR
Method File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\SIMABN2.m
Misc Info:

Calibration Date: 21-MAR-2023
Calibration Time: 18:25
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	162628	81314	325256	203292	25.00
27 Naphthalene-d8	580280	290140	1160560	733288	26.37
42 Acenaphthene-d10	297255	148628	594510	363068	22.14
59 Phenanthrene-d10	561093	280547	1122186	770089	37.25
69 Chrysene-d12	498827	249414	997654	694379	39.20
77 Perylene-d12	558480	279240	1116960	804055	43.97

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.11	8.61	9.61	9.10	-0.09
27 Naphthalene-d8	11.59	11.09	12.09	11.57	-0.13
42 Acenaphthene-d10	15.18	14.68	15.68	15.17	-0.10
59 Phenanthrene-d10	18.20	17.70	18.70	18.19	-0.04
69 Chrysene-d12	23.23	22.73	23.73	23.23	-0.00
77 Perylene-d12	25.84	25.34	26.34	25.86	0.09

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

REVIEW SUMMARY FOR FILE - NT1003212316S.D

Lab ID: BLC0109-MSD2
nt10.i, 20230321.b\20230321.b\SIMABN2.m,   22-MAR-2023 02:46

RT	CO-ELUTION COMPOUNDS
NO CO-ELUTIONS	

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.959	0.953	0.0057	Benzoic acid

RRT check based on Ccal File: 20230321.b/NT1003212303S.D

On Column LOD for nt10.i, 20230321.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

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

Analytical Resources, LLC
Analytical Chemists and Consultants

STANDARD REFERENCE MATERIAL RECOVERY

EPA 8270E-SIM

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Matrix: Solid
Laboratory ID: BLC0109-SRM2
Batch: BLC0109
Initial/Final: 1 g / 1 mL
Preparation: EPA 3546 (Microwave)
Analyzed: 03/21/2023 22:18
Standard ID: K003477
Expires: 01/31/2024
Standard Lot#: CRM 143 (LRAC8918)
Description: CRM 143 BNAs - Sandy Loam

ANALYTE	TRUE (ug/kg wet)	FOUND (ug/kg wet)	MDL	MRL	Q	SRM % REC.	QC LIMITS REC.
2,4-Dimethylphenol	6357.0	3000	21.7	200		47.2	0 - 220
1,2,4-Trichlorobenzene	1477.0	438	26.8	50.0		29.6	10 - 193
N-Nitrosodiphenylamine	2854.0	3520	13.1	50.0		123	40 - 160
Pentachlorophenol	3411.0	5140	21.3	200		151	10 - 206

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT10032123095.D

Date : 21-MAR-2023 22:18

Client ID:

Instrument: nt10.i

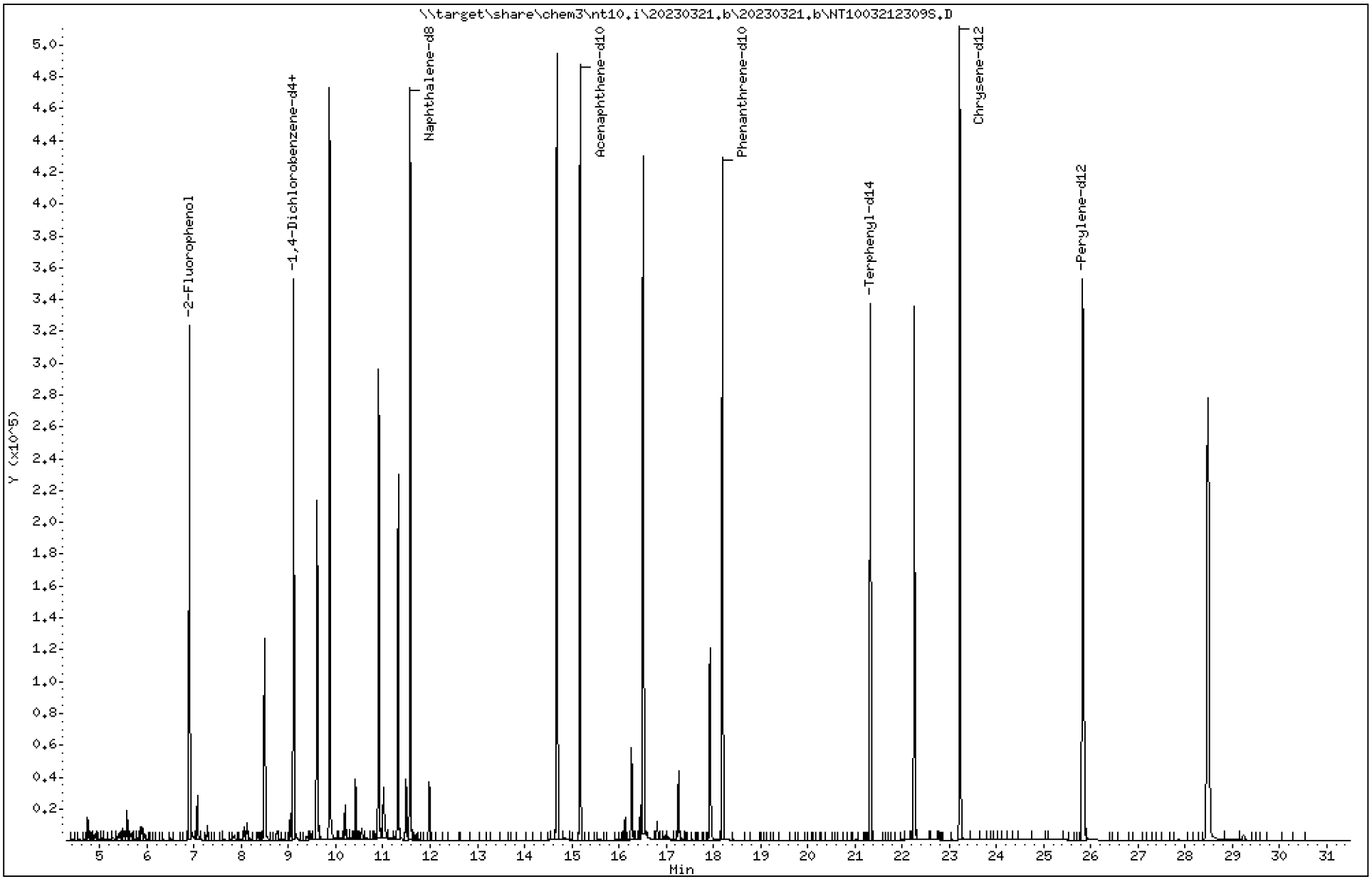
Sample Info: BLC0109-SRM2

Volume Injected (uL): 1.0

Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25



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Date : 21-MAR-2023 22:18

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-SRM2

Volume Injected (uL): 1.0

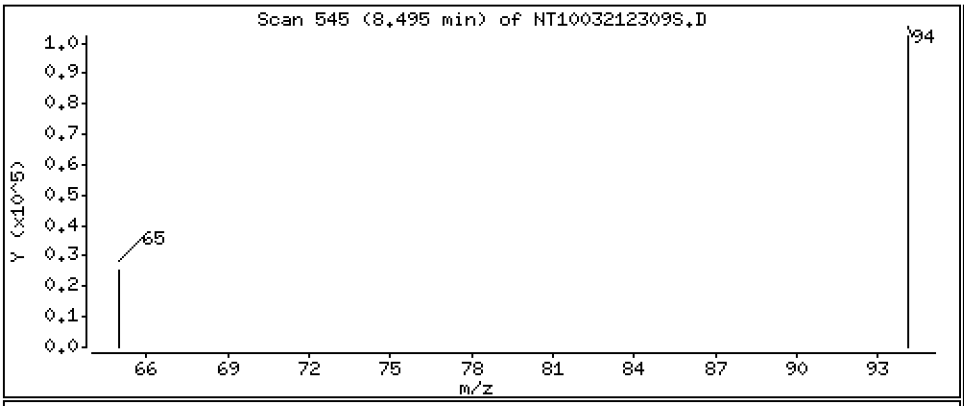
Operator: JGR

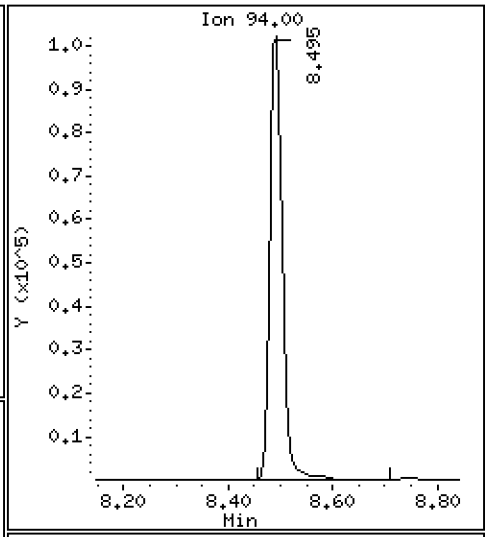
Column phase: ZB-5msi

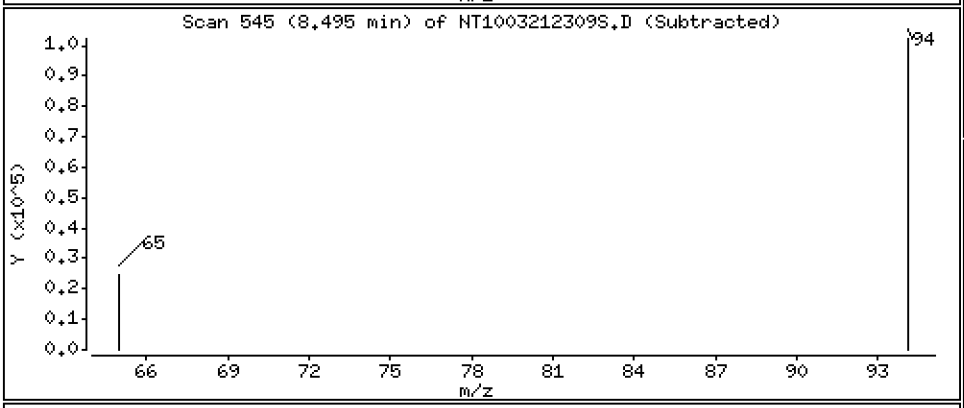
Column diameter: 0.25

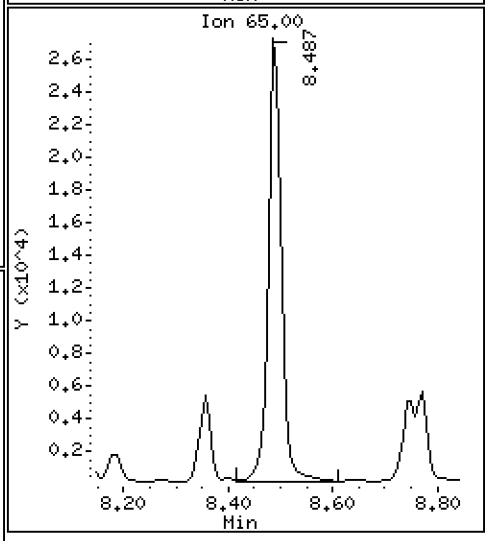
3 Phenol

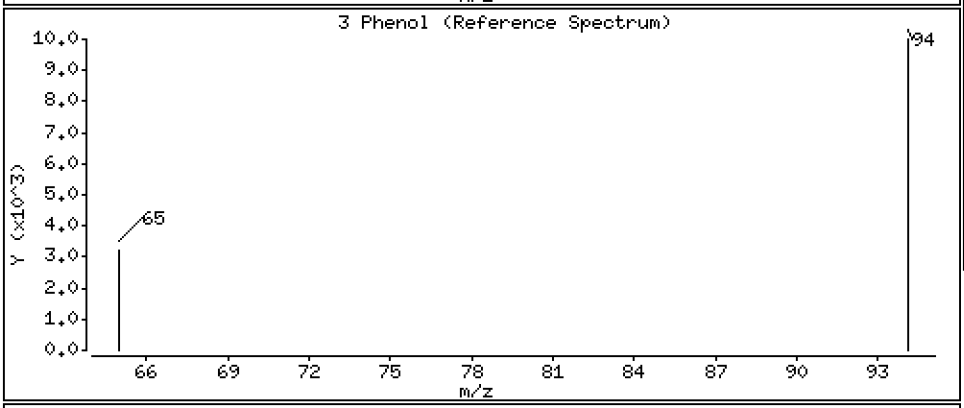
Concentration: 1.899 ug/L

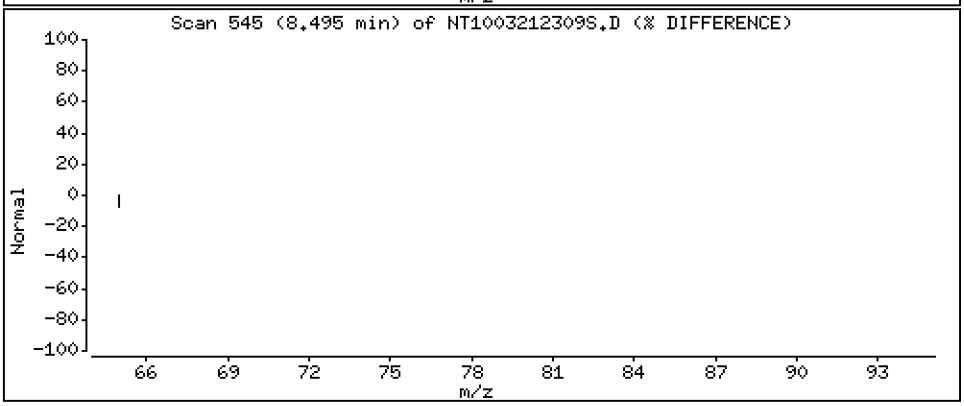












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Date : 21-MAR-2023 22:18

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-SRM2

Volume Injected (uL): 1.0

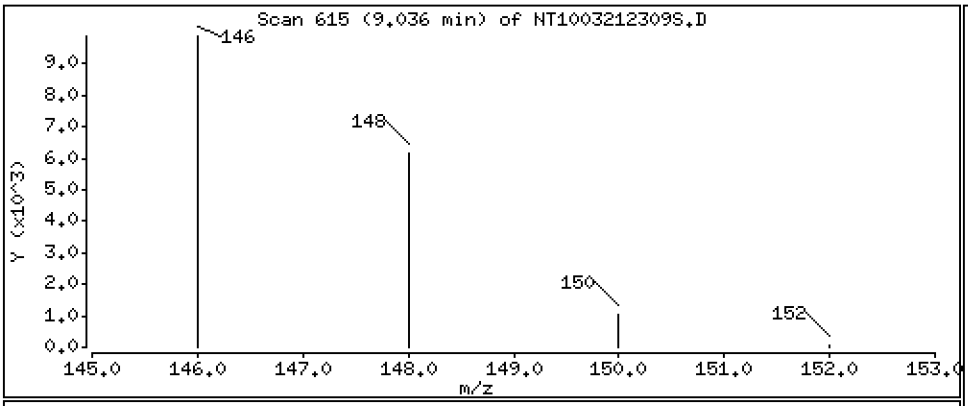
Operator: JGR

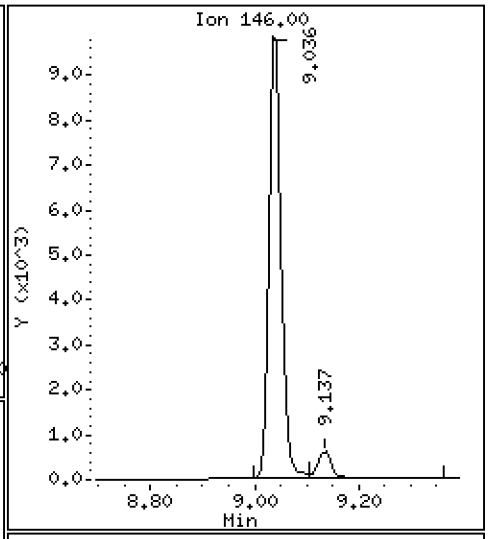
Column phase: ZB-5msi

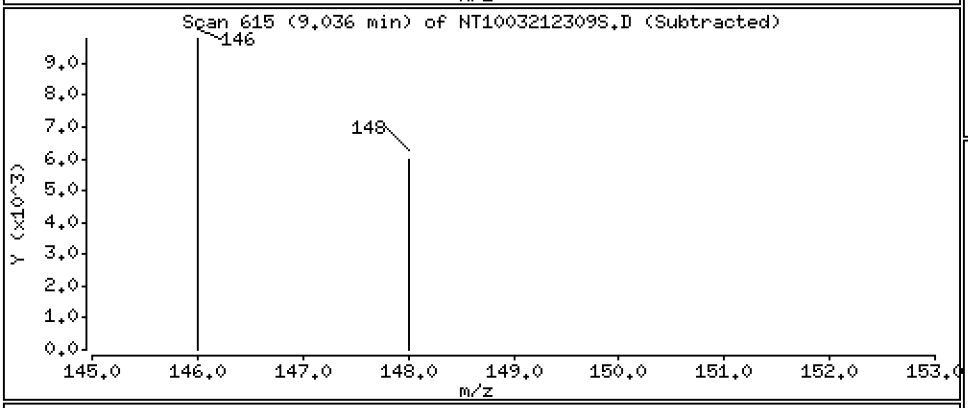
Column diameter: 0.25

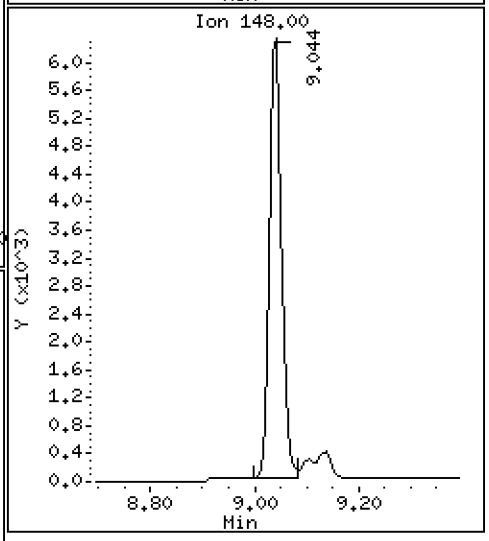
7 1,3-Dichlorobenzene

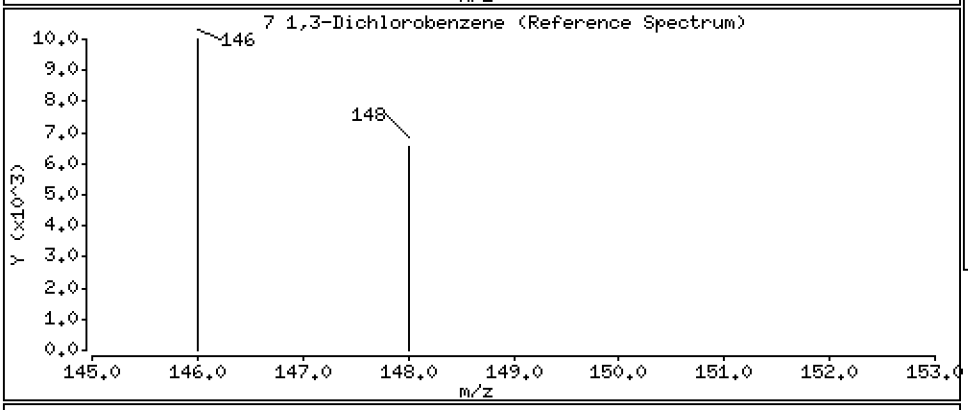
Concentration: 0.2013 ug/L

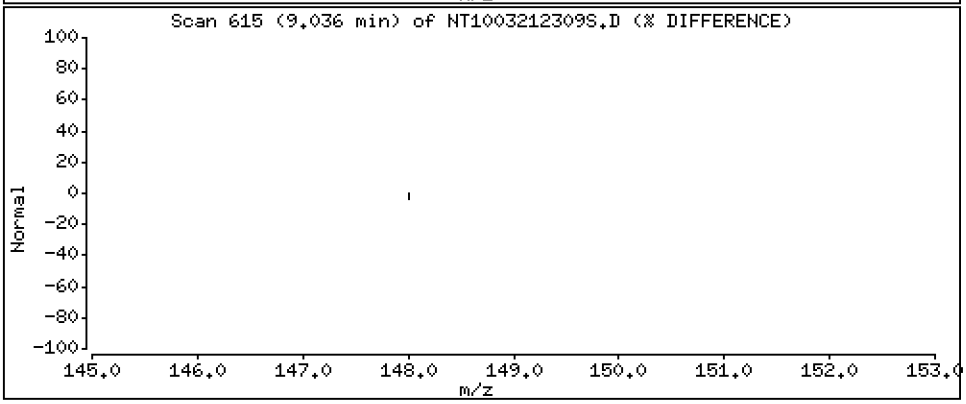












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212309S.D

Date : 21-MAR-2023 22:18

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-SRM2

Volume Injected (uL): 1.0

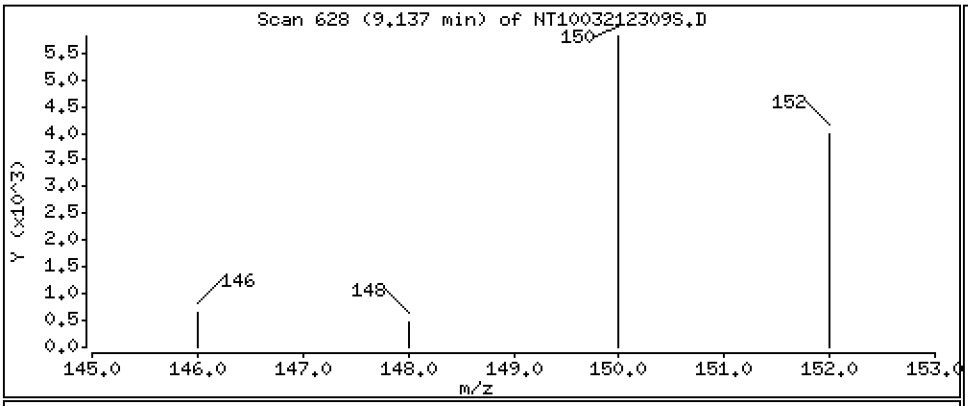
Operator: JGR

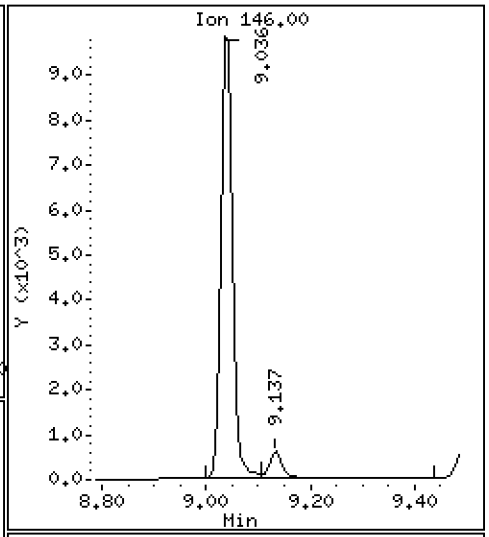
Column phase: ZB-5msi

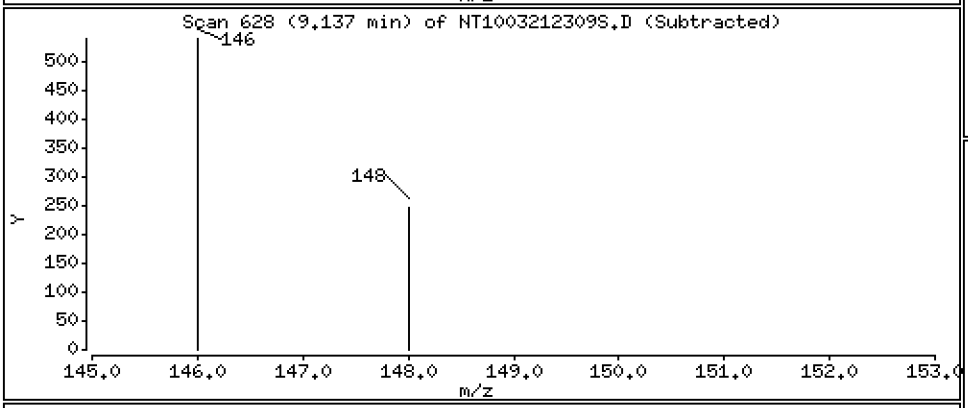
Column diameter: 0.25

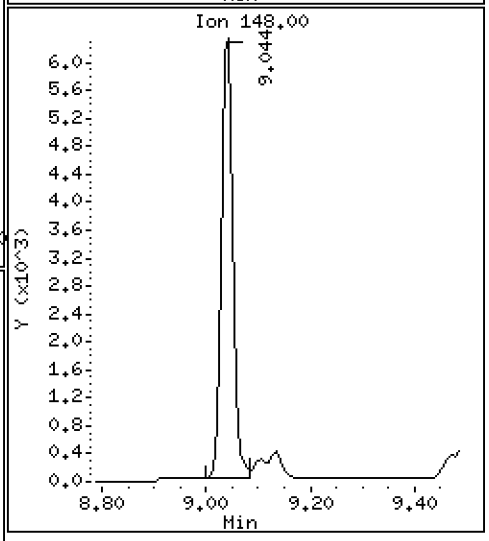
9 1,4-Dichlorobenzene

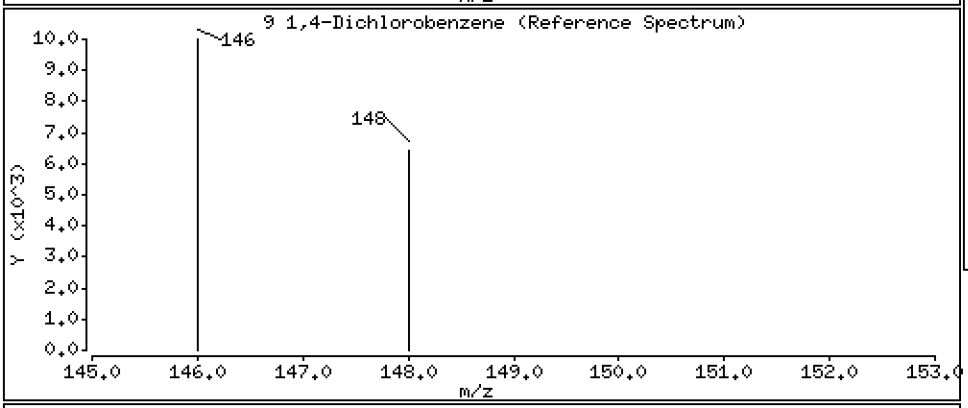
Concentration: 0.01251 ug/L

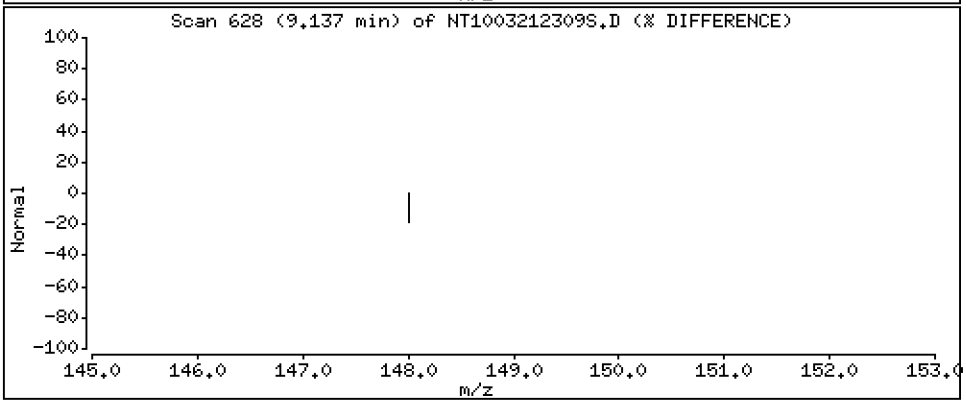












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212309S.D

Date : 21-MAR-2023 22:18

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-SRM2

Volume Injected (uL): 1.0

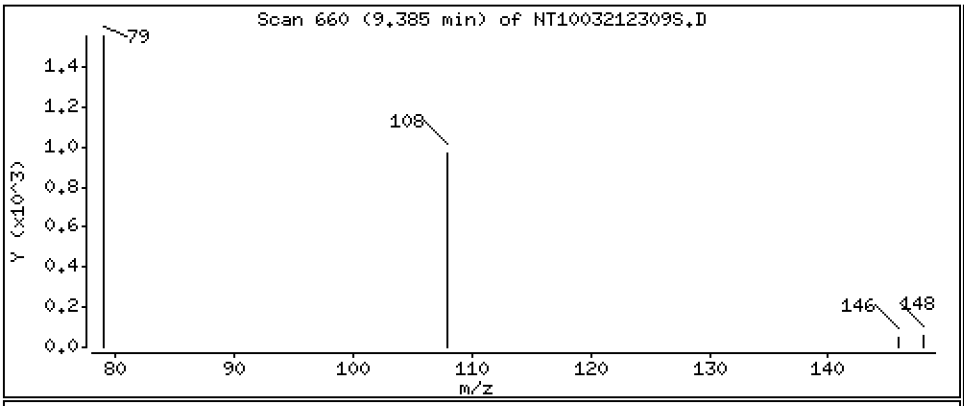
Operator: JGR

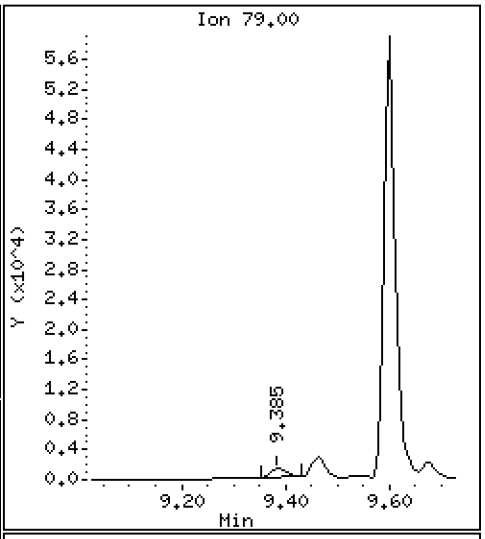
Column phase: ZB-5msi

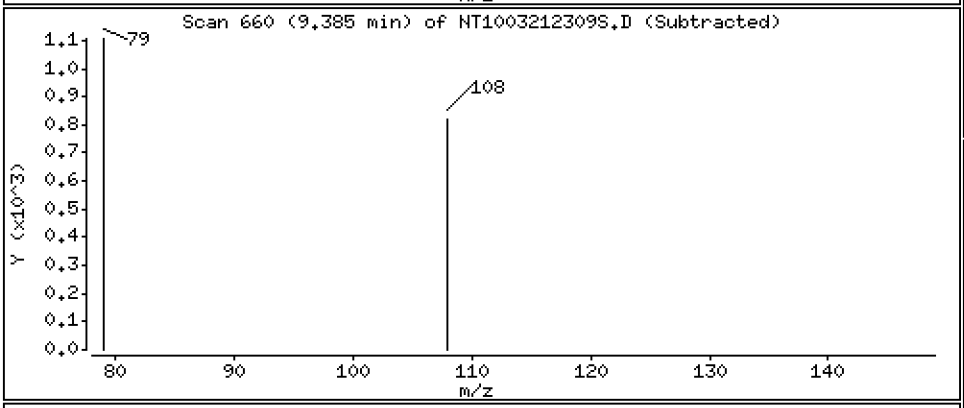
Column diameter: 0.25

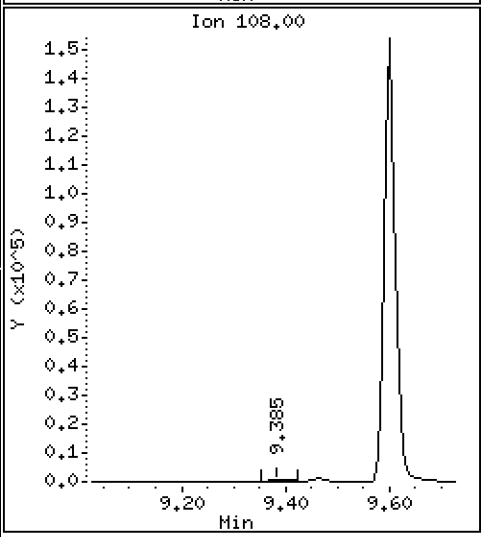
11 Benzyl alcohol

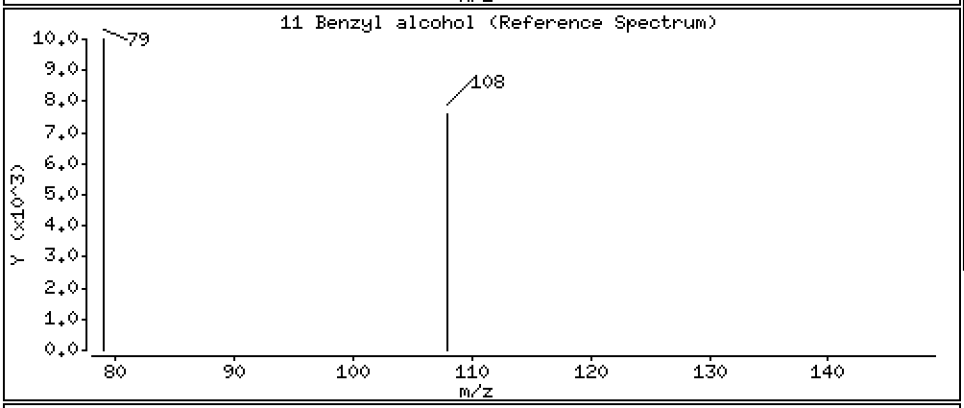
Concentration: 0.04375 ug/L

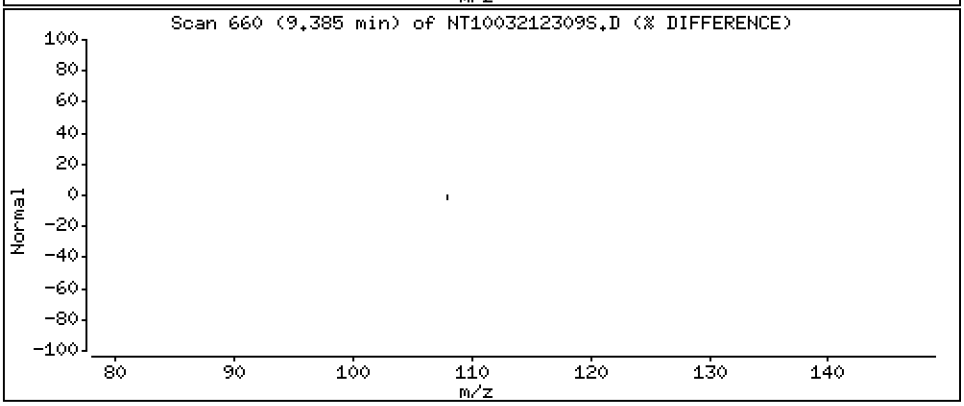












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212309S.D

Date : 21-MAR-2023 22:18

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-SRM2

Volume Injected (uL): 1.0

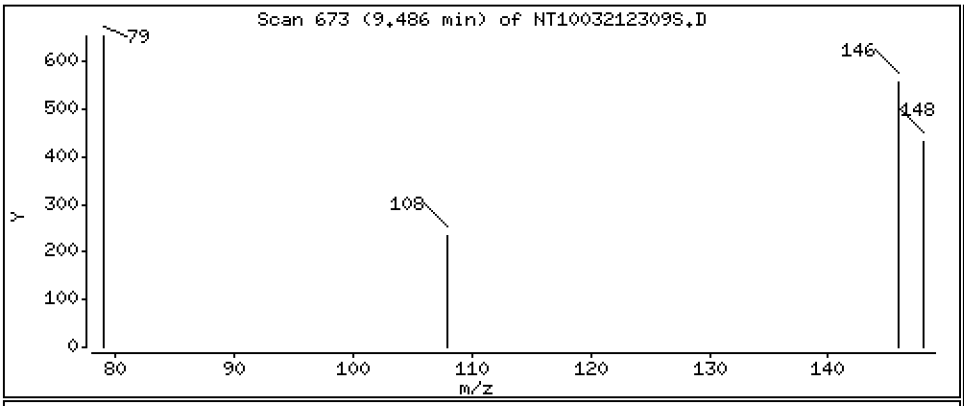
Operator: JGR

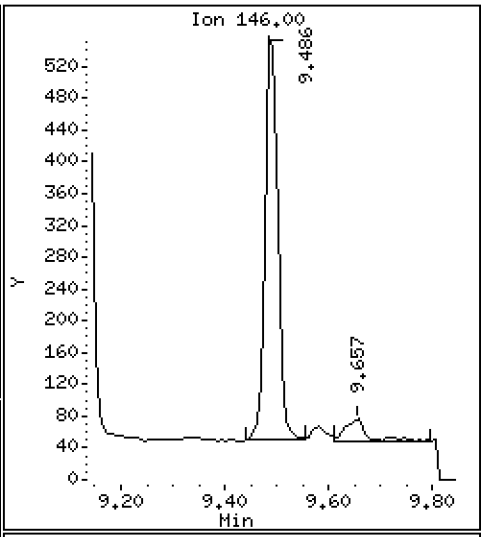
Column phase: ZB-5msi

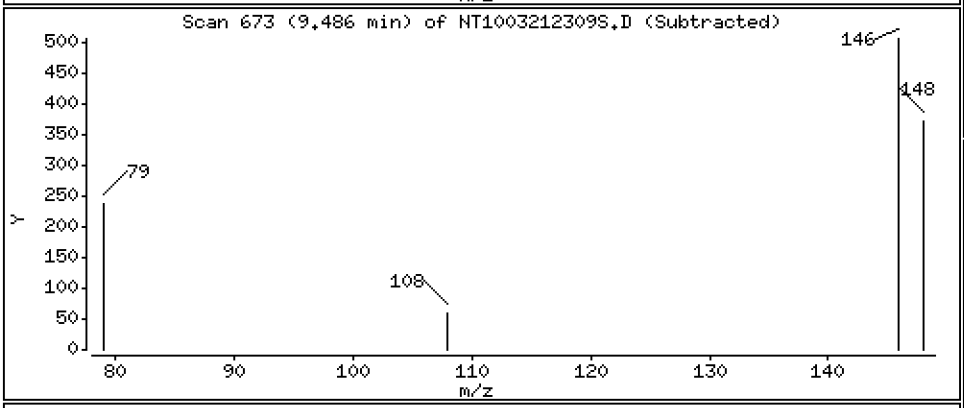
Column diameter: 0.25

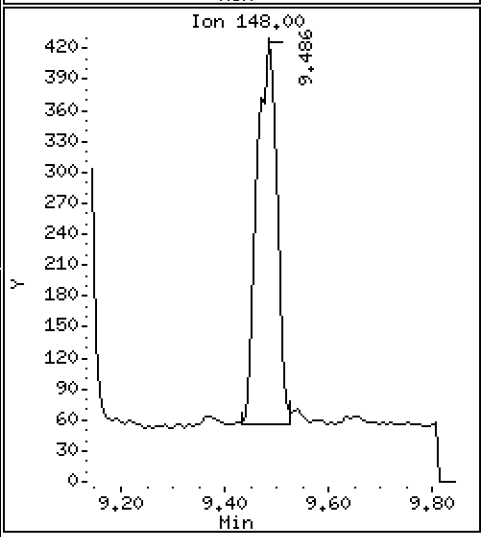
12 1,2-Dichlorobenzene

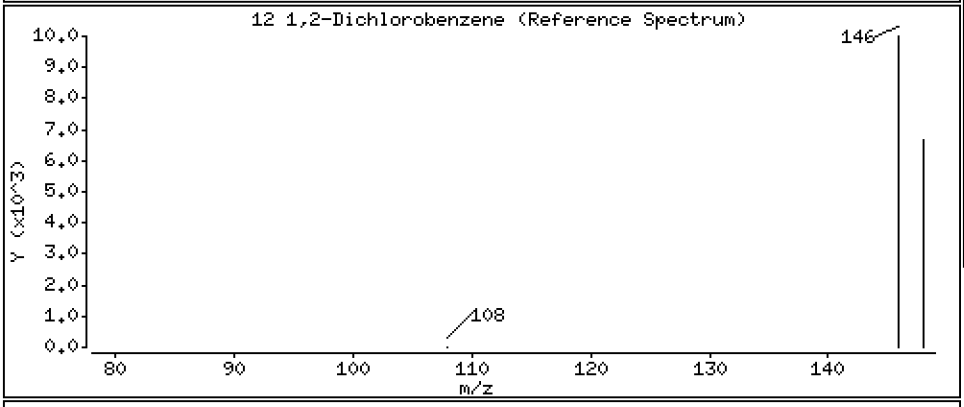
Concentration: 0.01093 ug/L

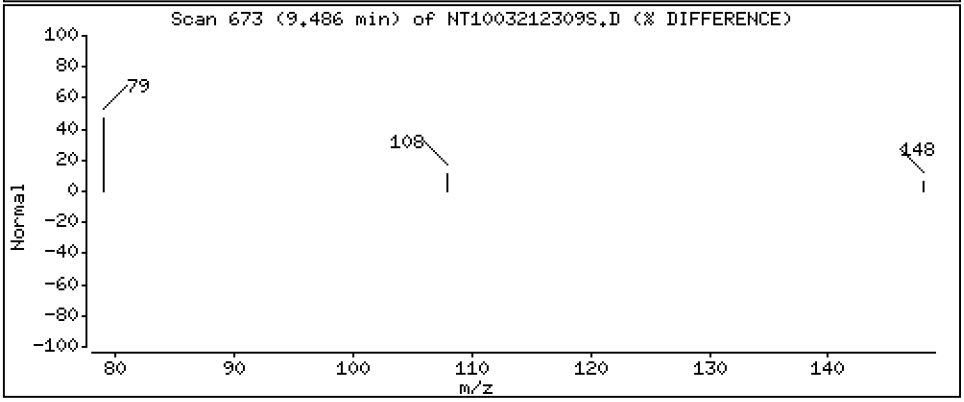












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Date : 21-MAR-2023 22:18

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-SRM2

Volume Injected (uL): 1.0

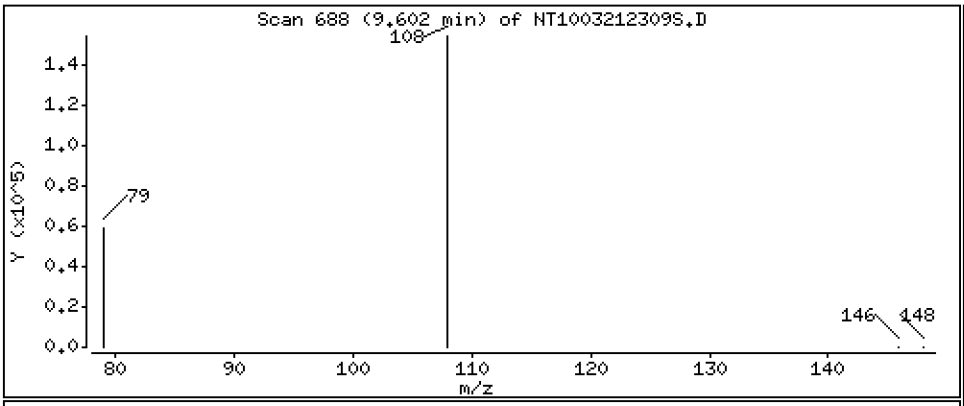
Operator: JGR

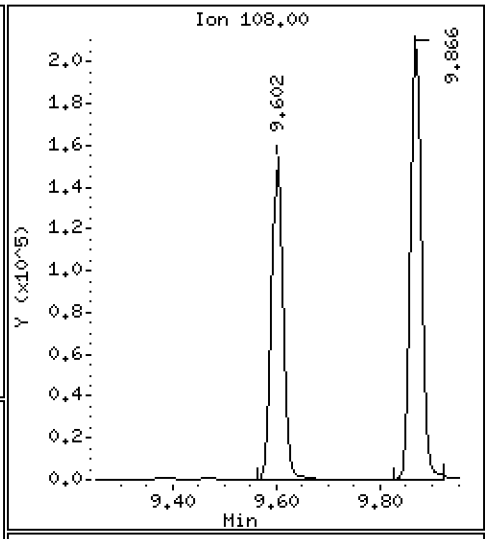
Column phase: ZB-5msi

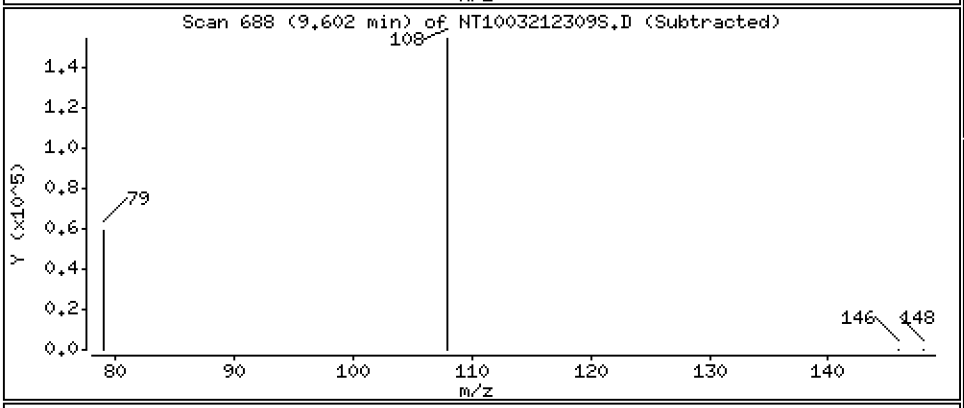
Column diameter: 0.25

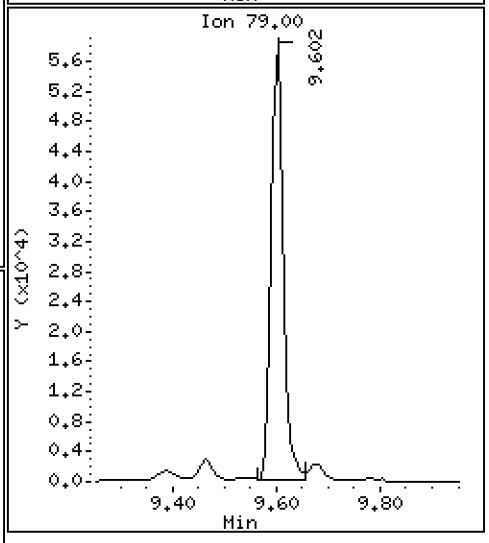
13 2-Methylphenol

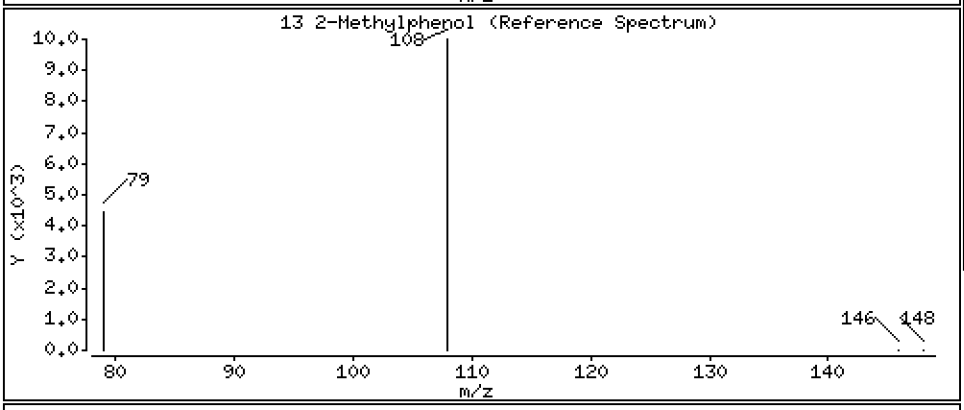
Concentration: 3.806 ug/L

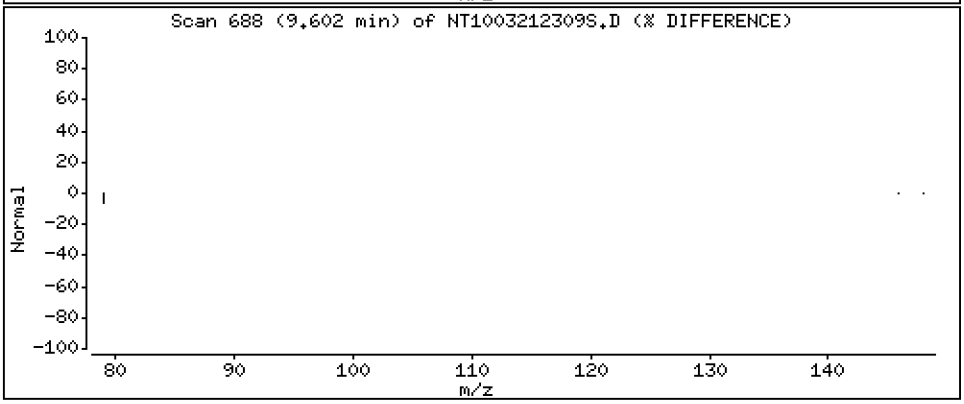












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Date : 21-MAR-2023 22:18

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-SRM2

Volume Injected (uL): 1.0

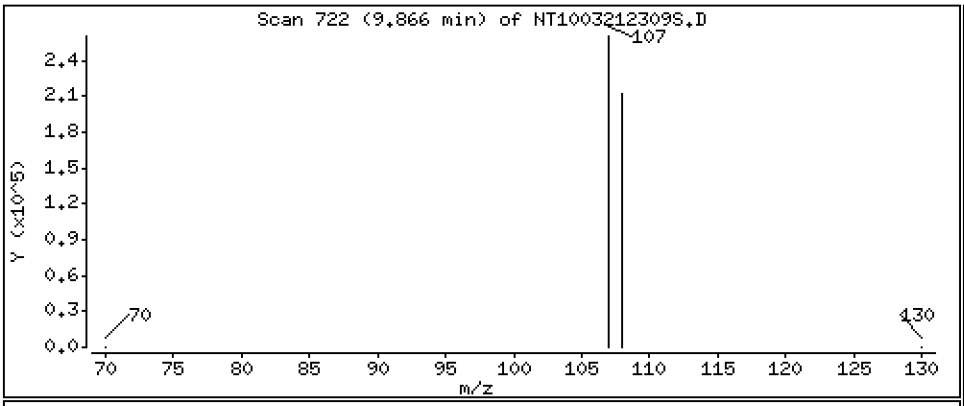
Operator: JGR

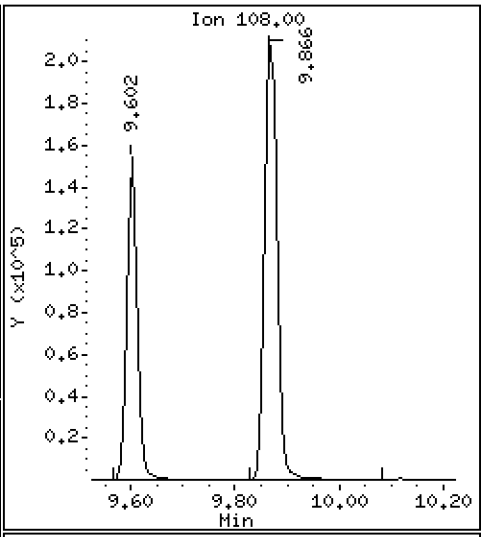
Column phase: ZB-5msi

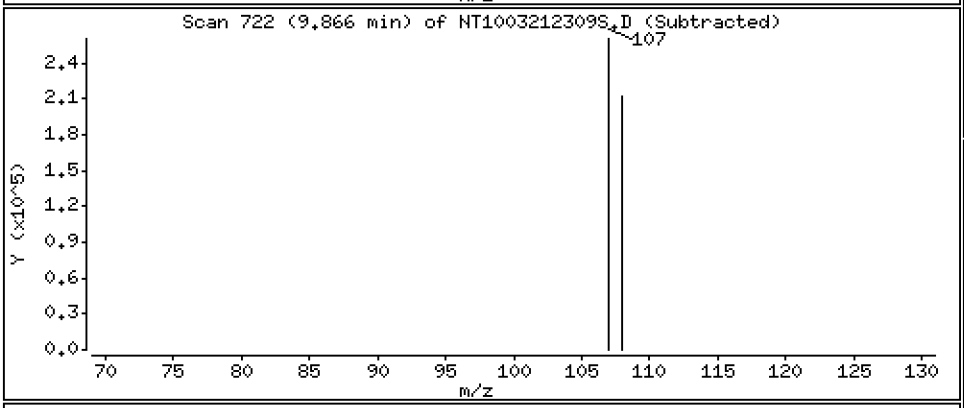
Column diameter: 0.25

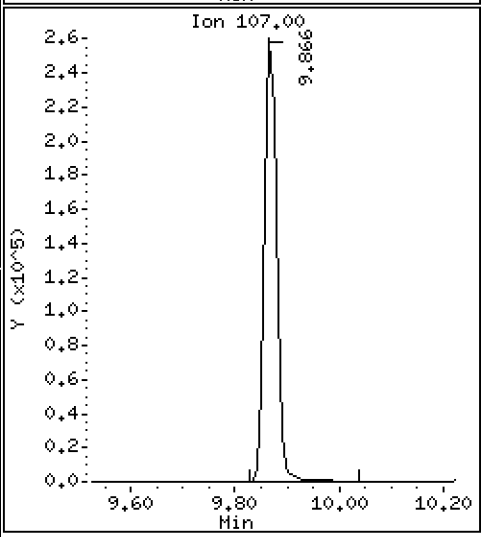
15 4-Methylphenol

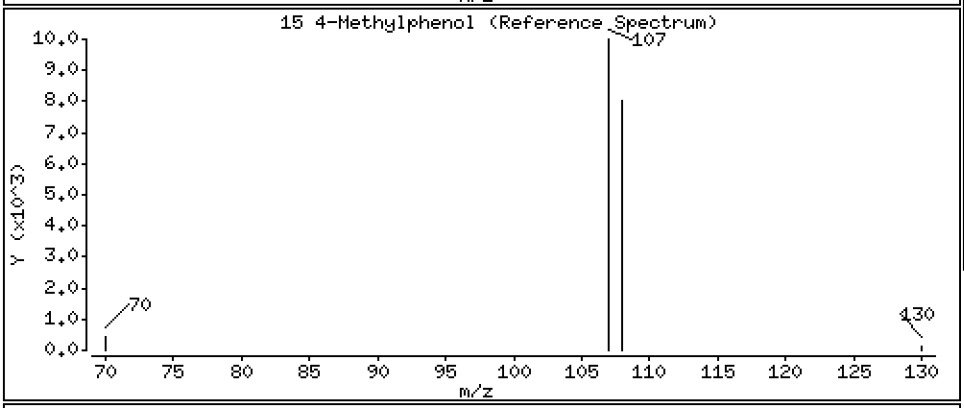
Concentration: 5.442 ug/L

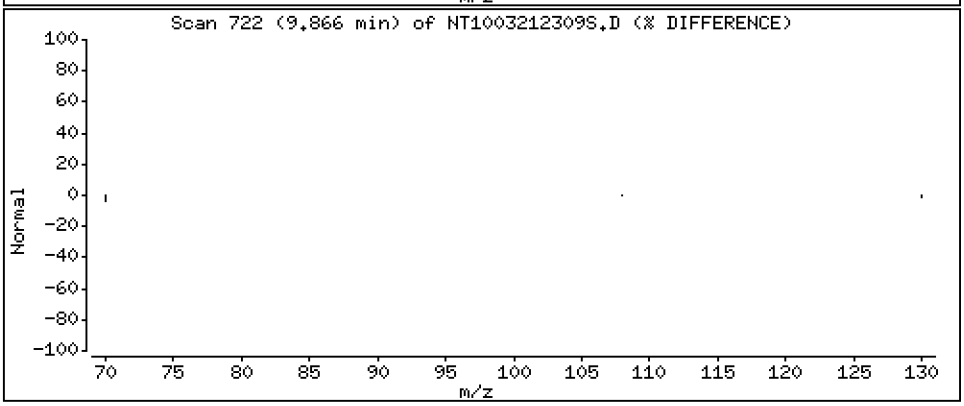












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Date : 21-MAR-2023 22:18

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-SRM2

Volume Injected (uL): 1.0

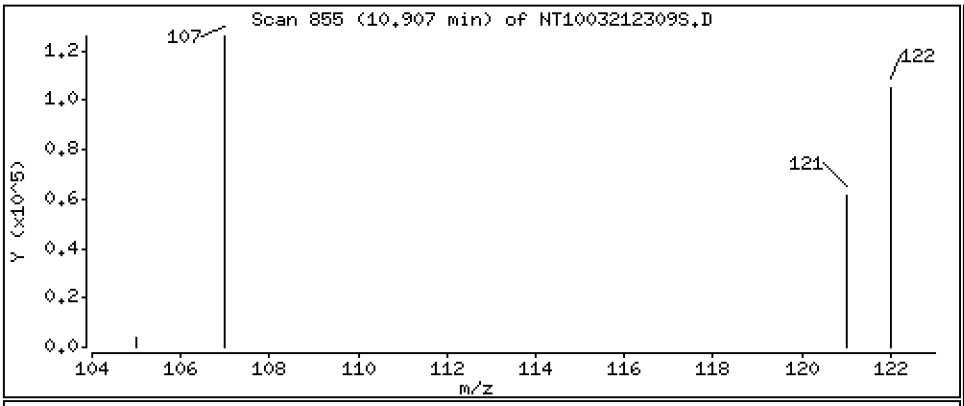
Operator: JGR

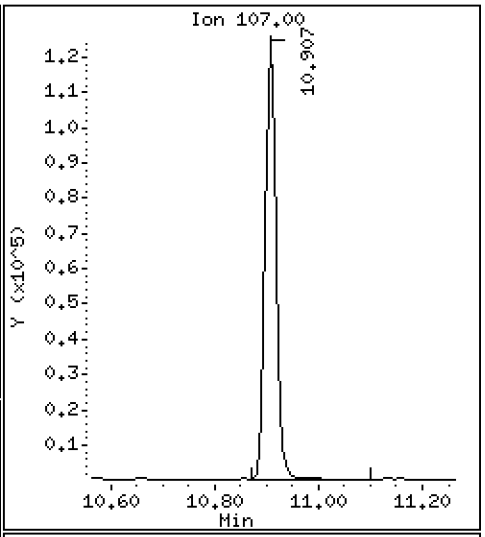
Column phase: ZB-5msi

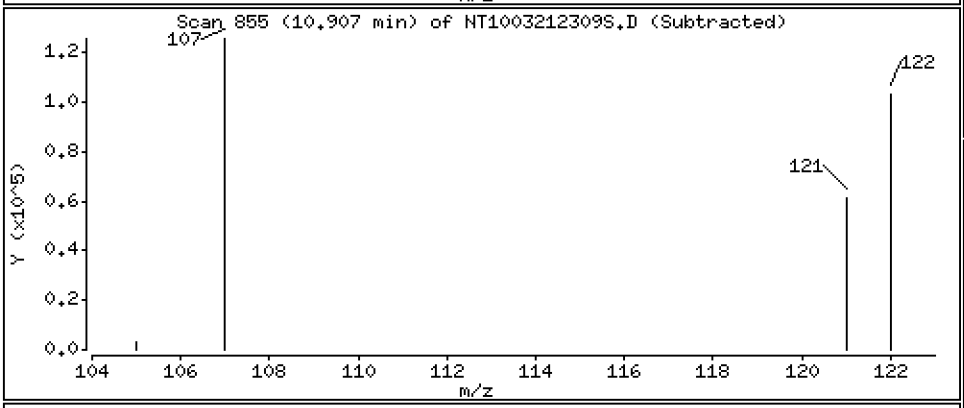
Column diameter: 0.25

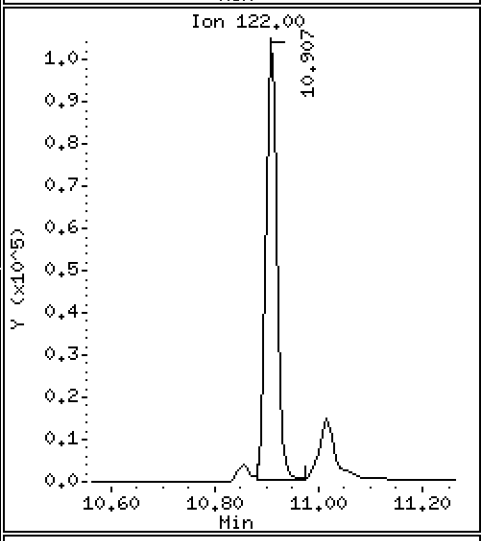
22 2,4-Dimethylphenol

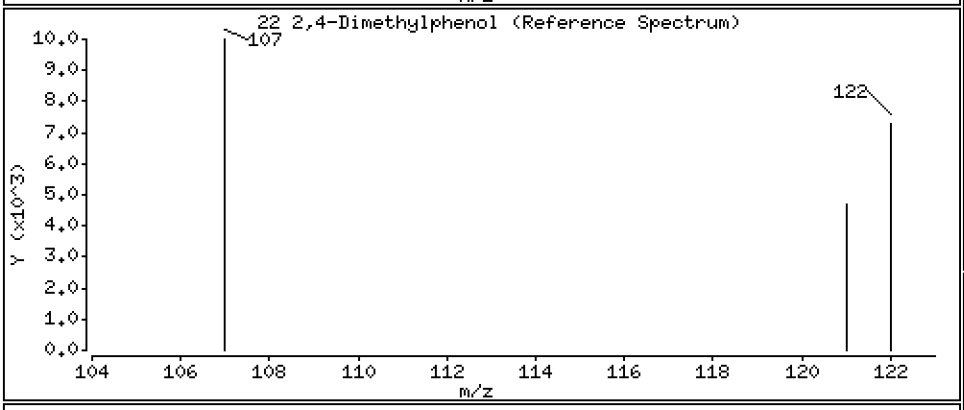
Concentration: 2.999 ug/L

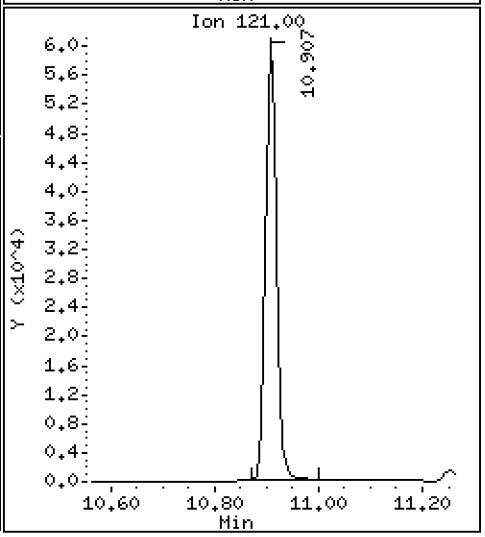


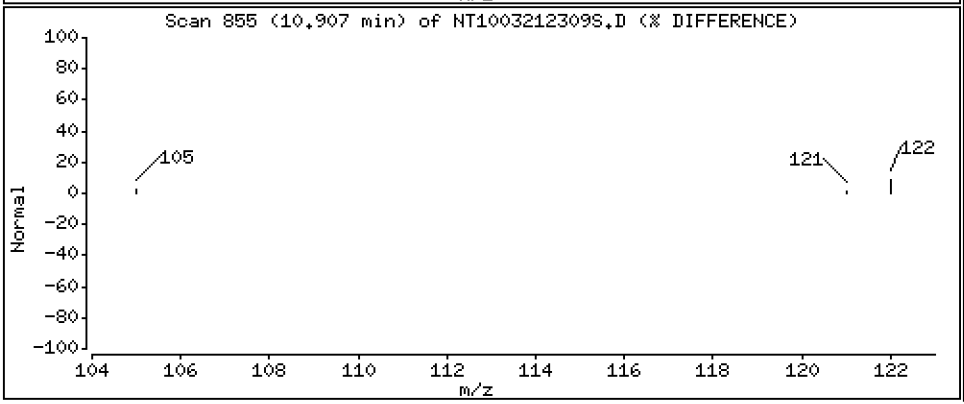












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Date : 21-MAR-2023 22:18

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-SRM2

Volume Injected (uL): 1.0

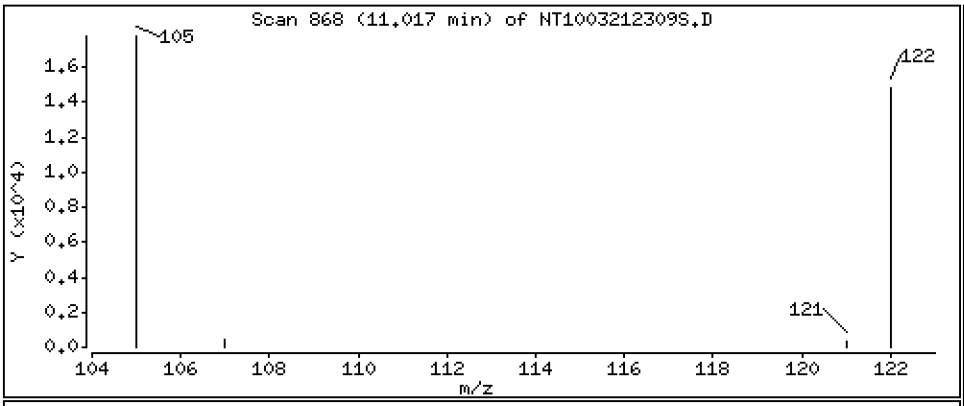
Operator: JGR

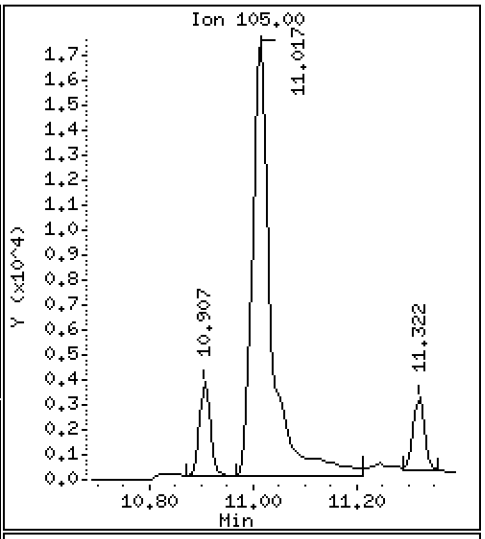
Column phase: ZB-5msi

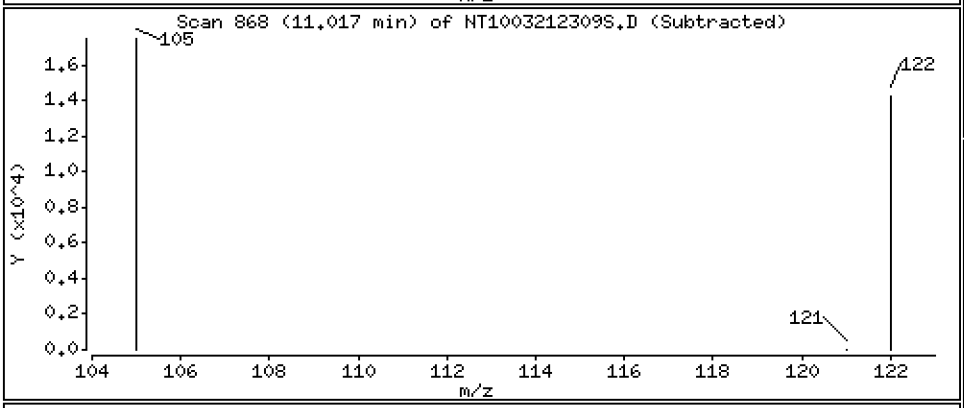
Column diameter: 0.25

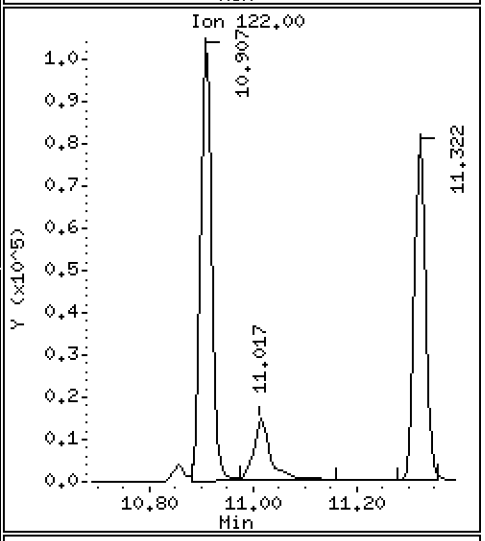
24 Benzoic acid

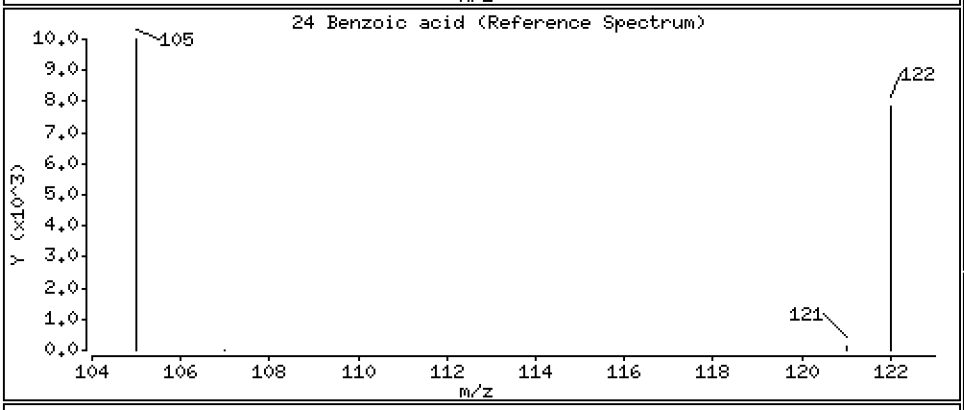
Concentration: 1.287 ug/L

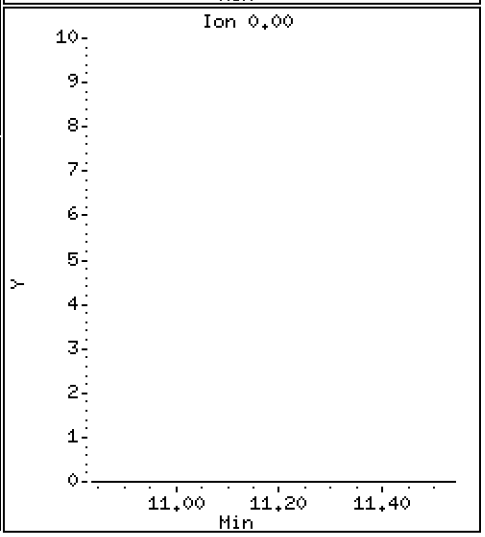


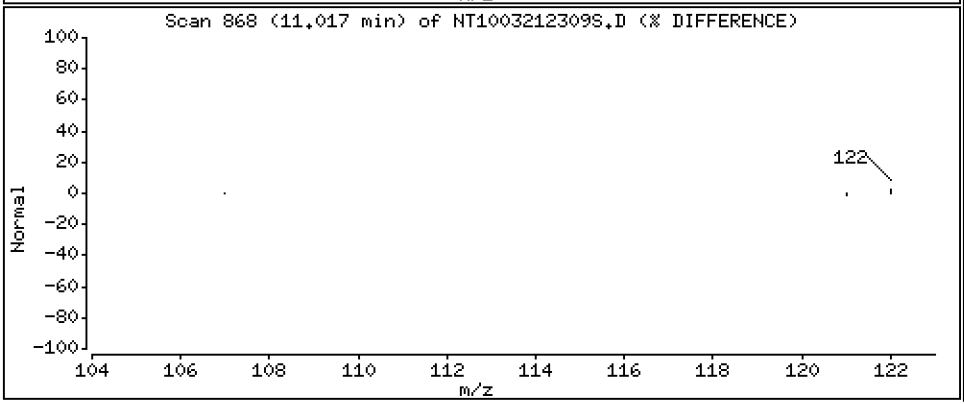












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Date : 21-MAR-2023 22:18

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-SRM2

Volume Injected (uL): 1.0

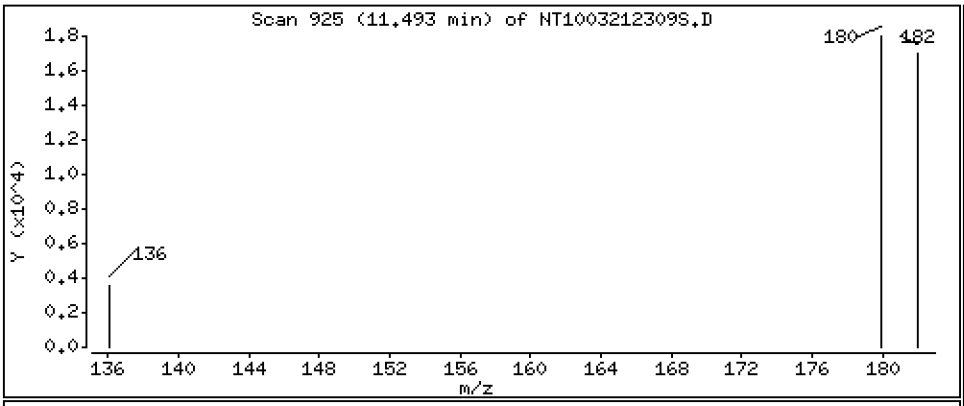
Operator: JGR

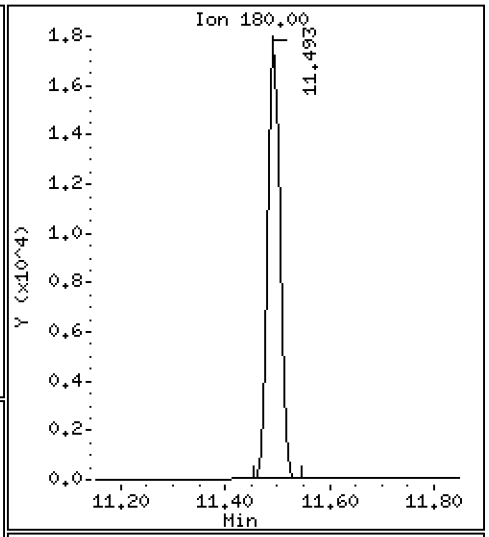
Column phase: ZB-5msi

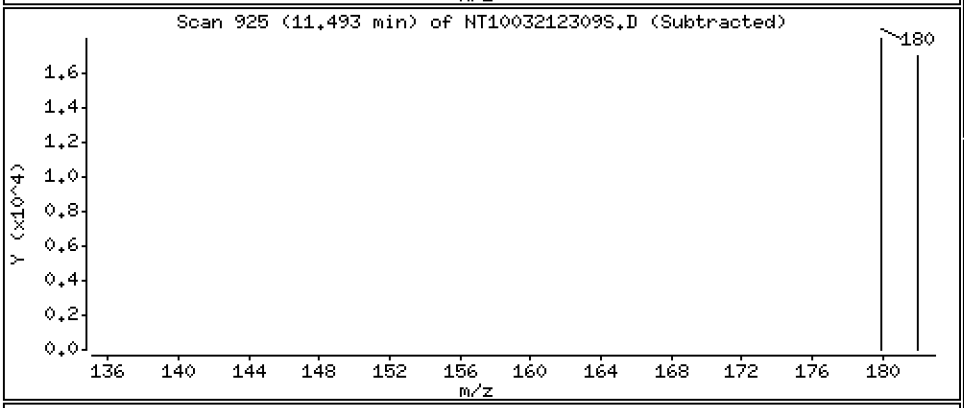
Column diameter: 0.25

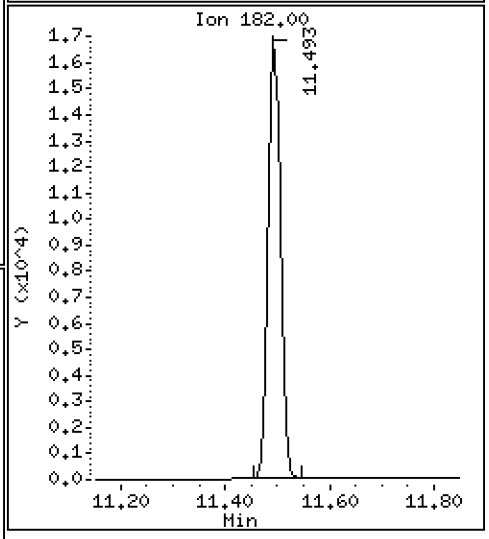
26 1,2,4-Trichlorobenzene

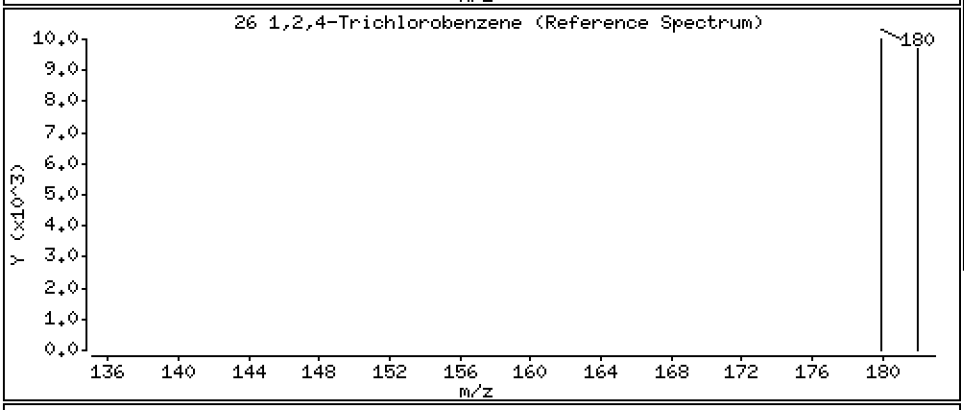
Concentration: 0.4375 ug/L

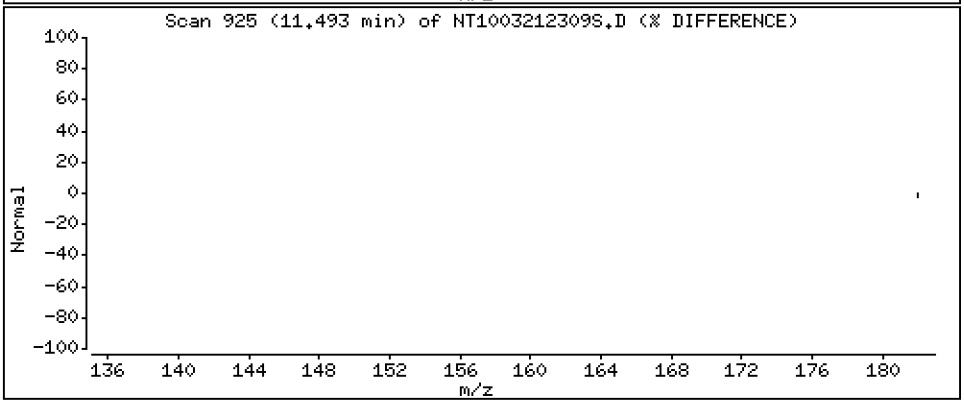












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Date : 21-MAR-2023 22:18

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-SRM2

Volume Injected (uL): 1.0

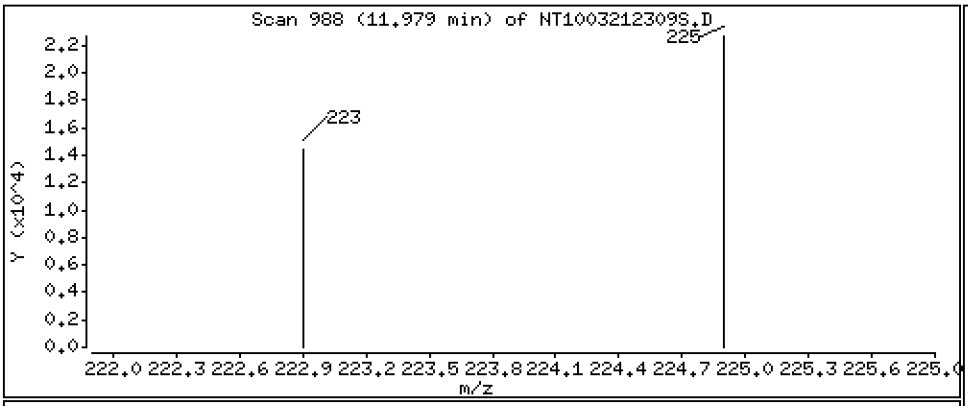
Operator: JGR

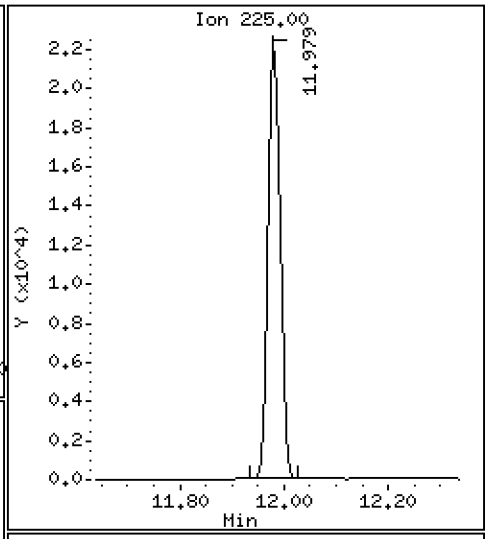
Column phase: ZB-5msi

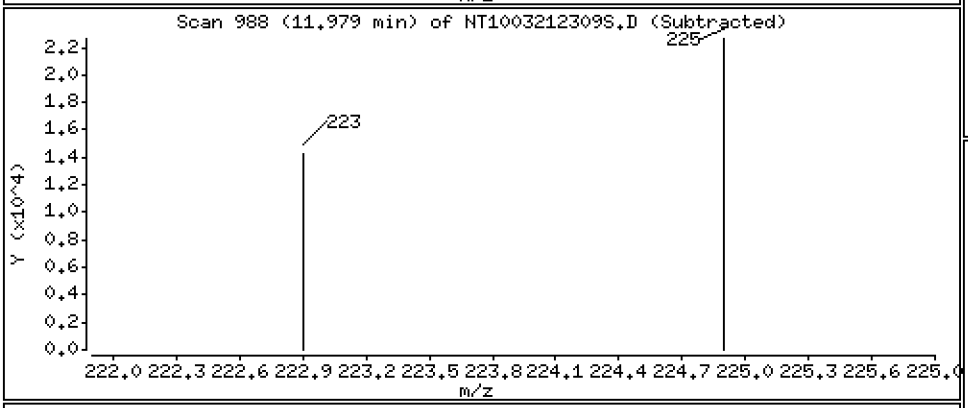
Column diameter: 0.25

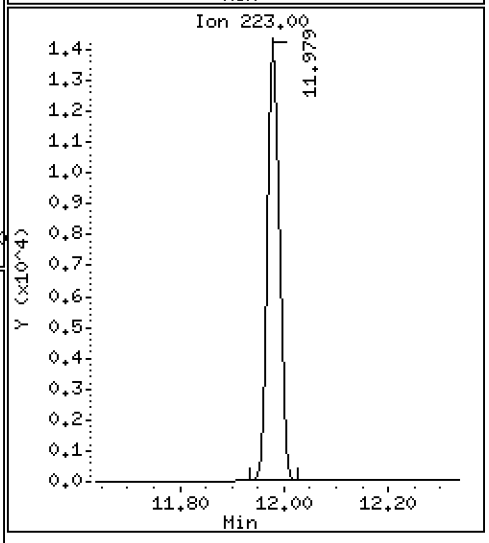
30 Hexachlorobutadiene

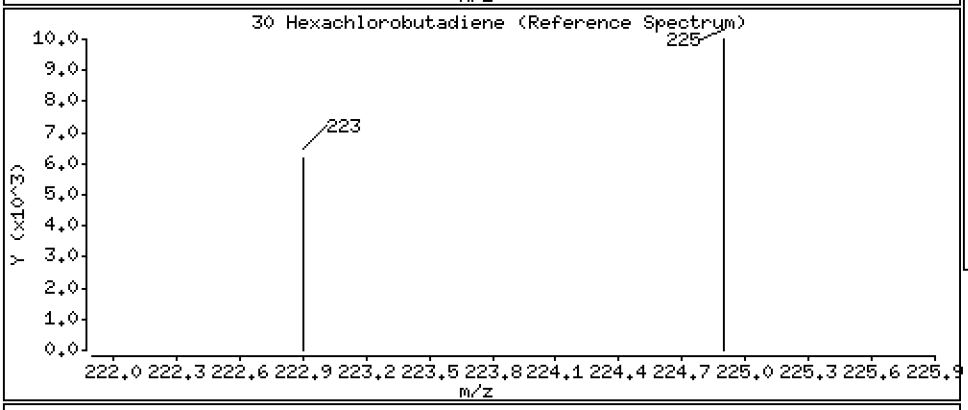
Concentration: 0.9309 ug/L

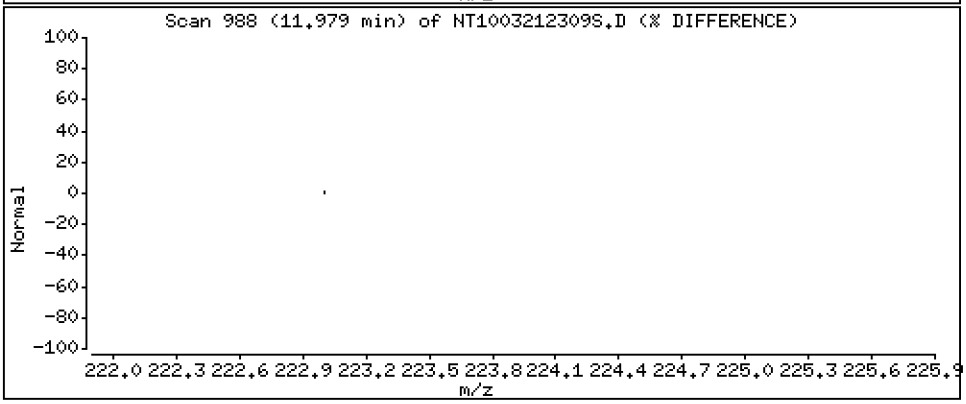












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212309S.D

Date : 21-MAR-2023 22:18

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-SRM2

Volume Injected (uL): 1.0

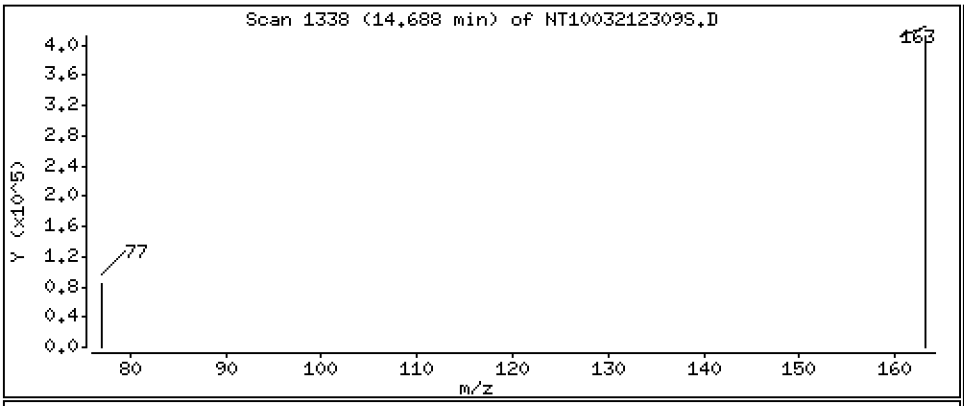
Operator: JGR

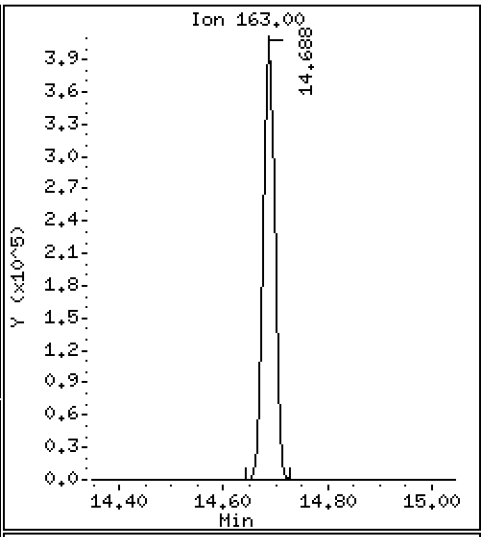
Column phase: ZB-5msi

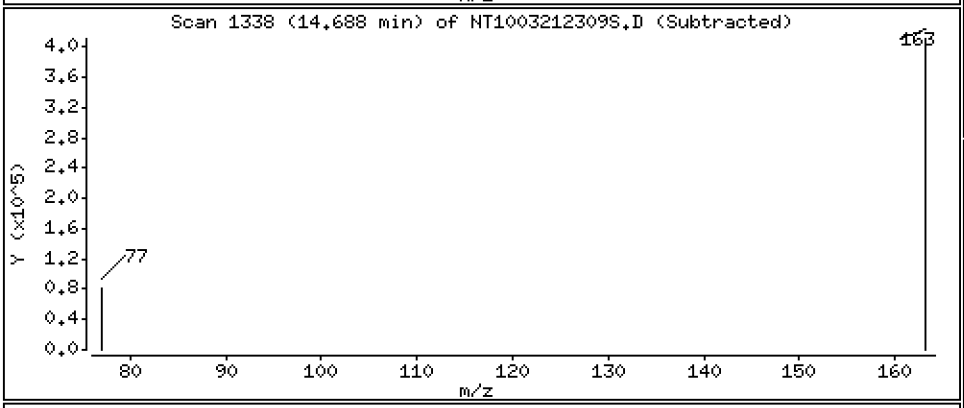
Column diameter: 0.25

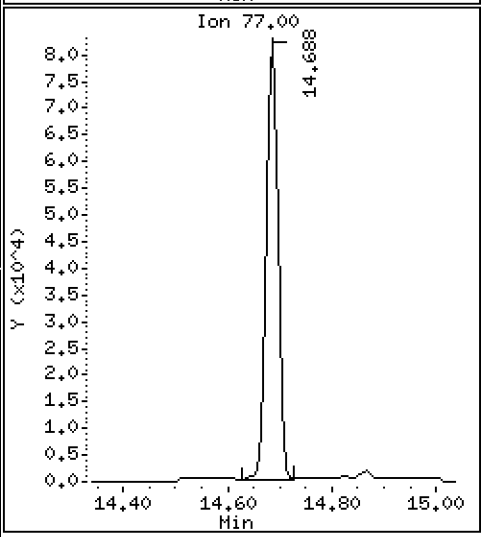
39 Dimethylphthalate

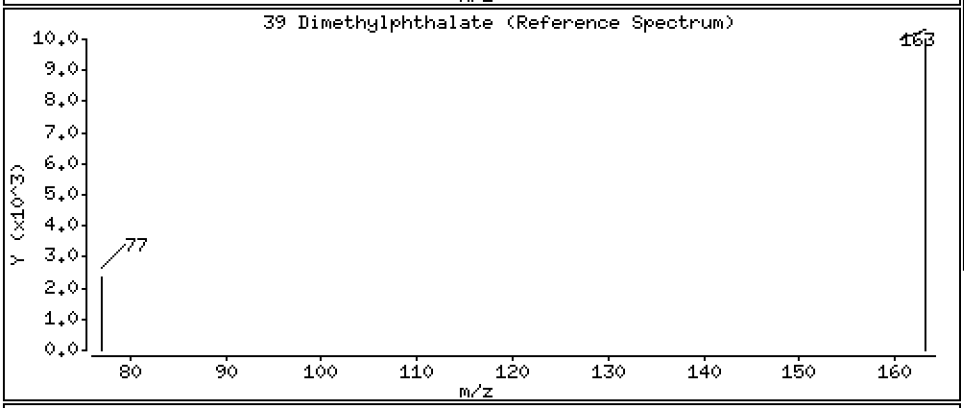
Concentration: 5.156 ug/L

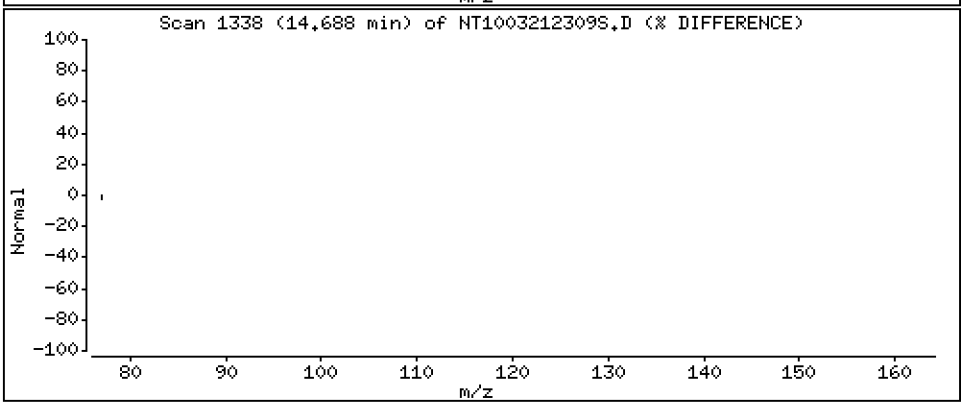












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Date : 21-MAR-2023 22:18

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-SRM2

Volume Injected (uL): 1.0

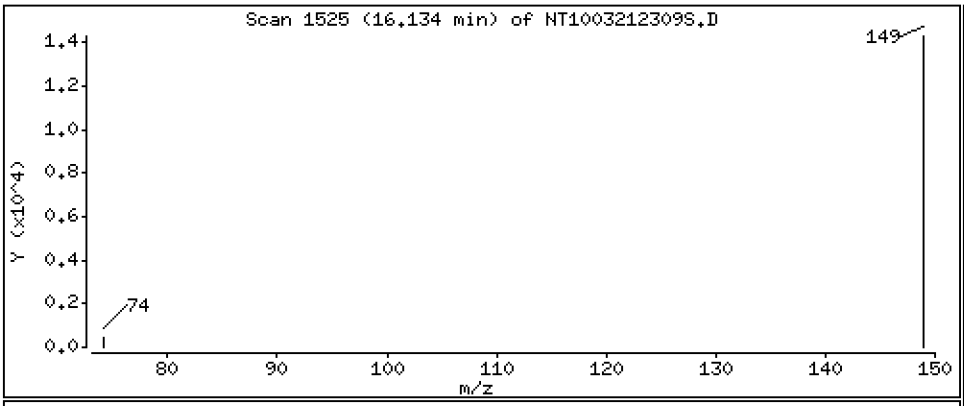
Operator: JGR

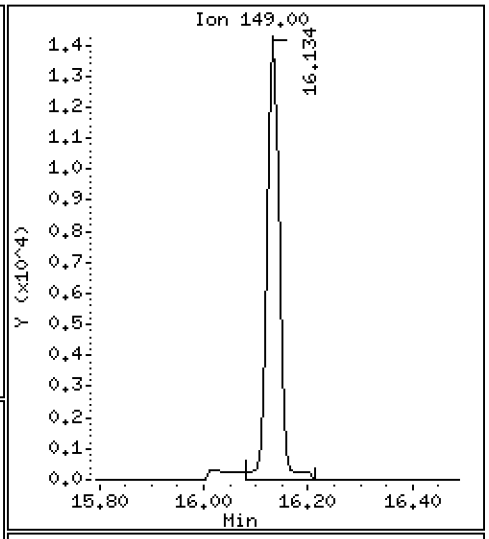
Column phase: ZB-5msi

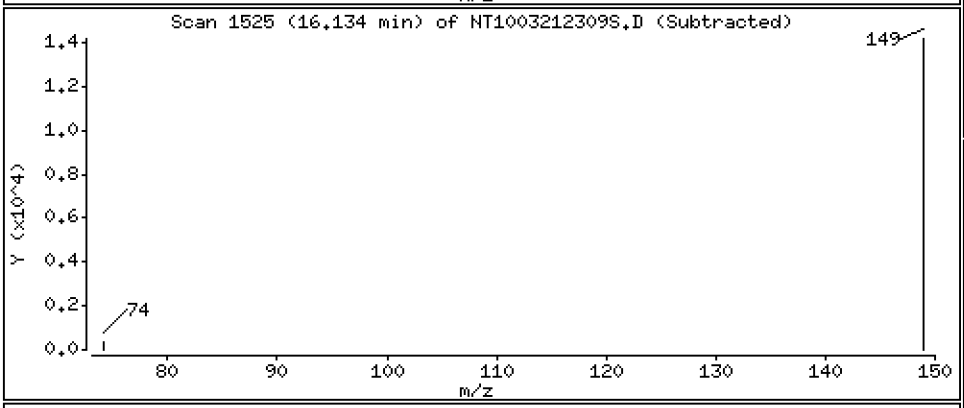
Column diameter: 0.25

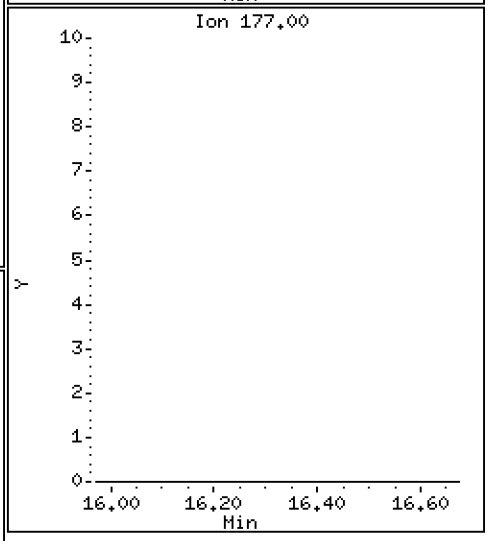
50 Diethylphthalate

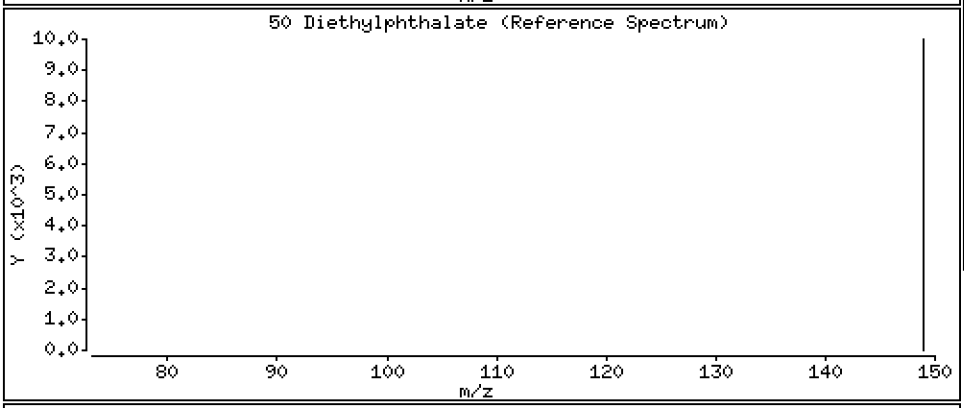
Concentration: 0.1884 ug/L

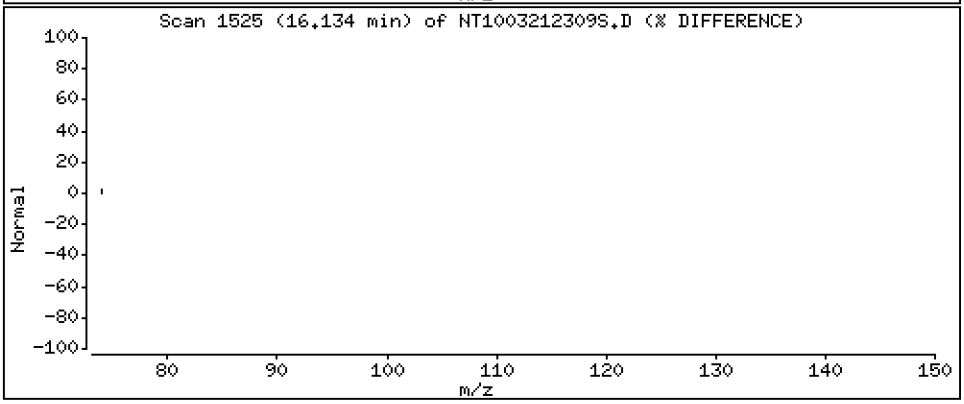












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212309S.D

Date : 21-MAR-2023 22:18

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-SRM2

Volume Injected (uL): 1.0

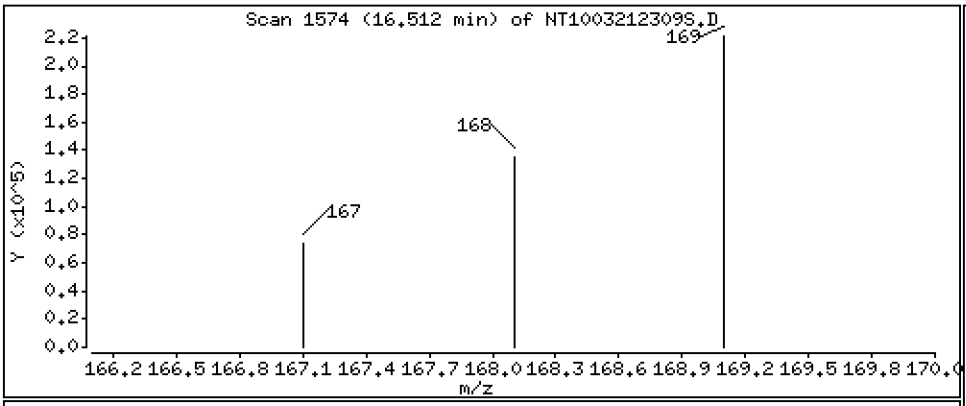
Operator: JGR

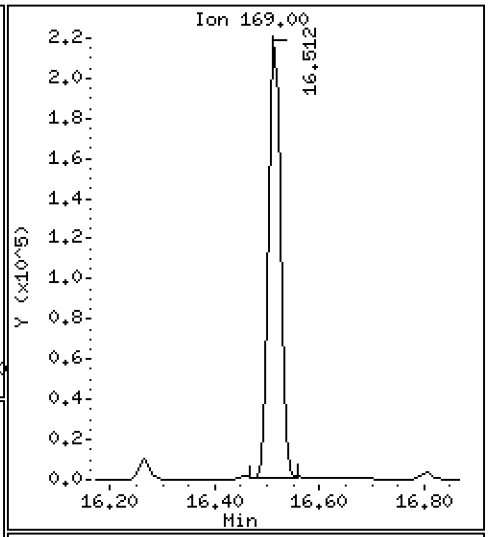
Column phase: ZB-5msi

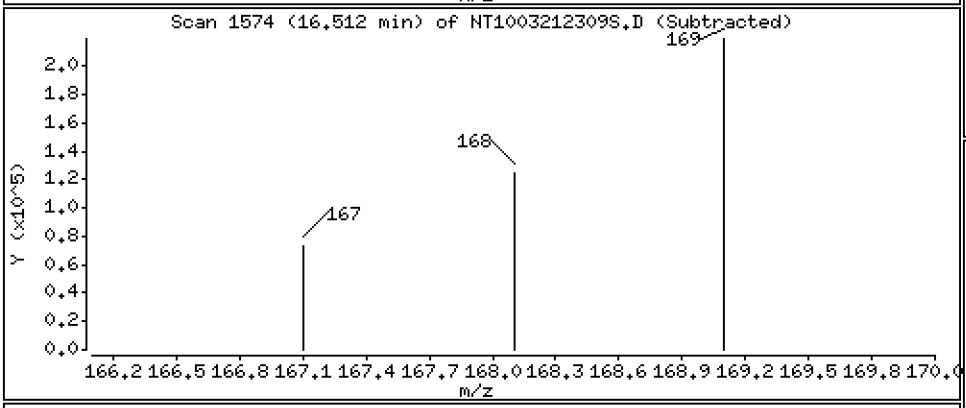
Column diameter: 0.25

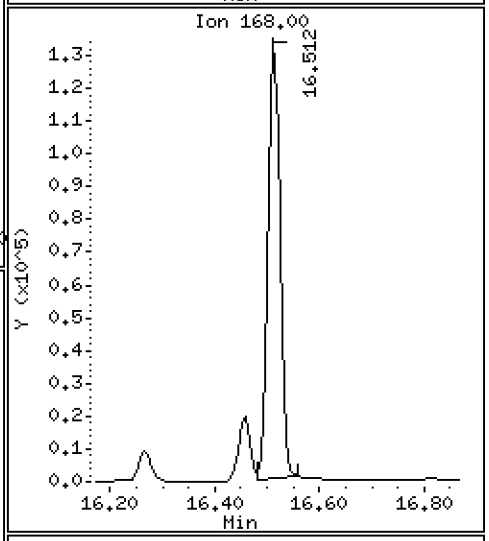
54 N-Nitrosodiphenylamine

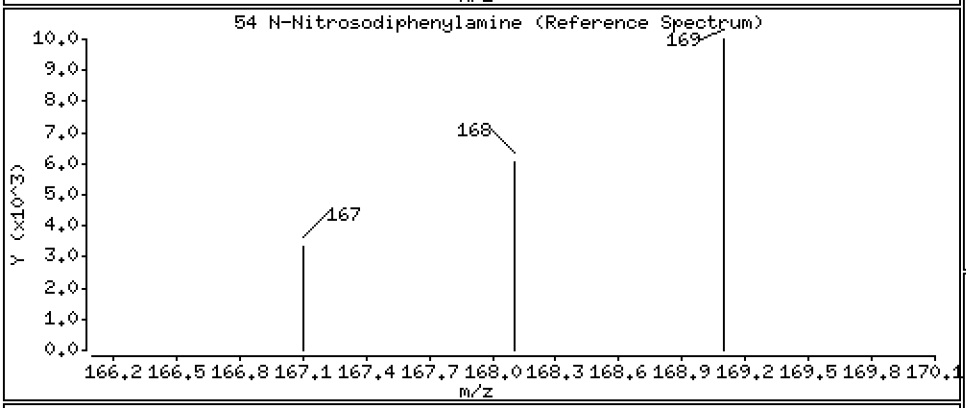
Concentration: 3.518 ug/L

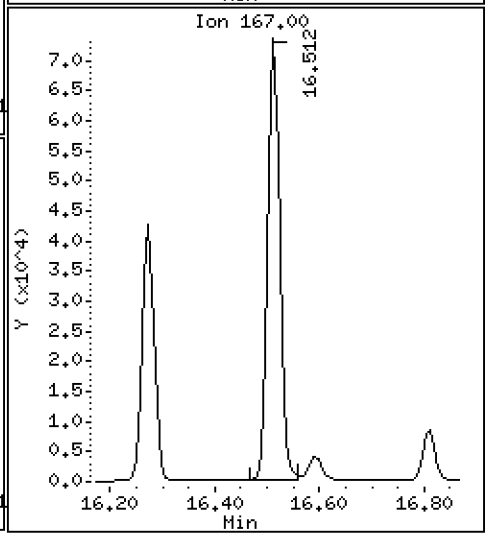


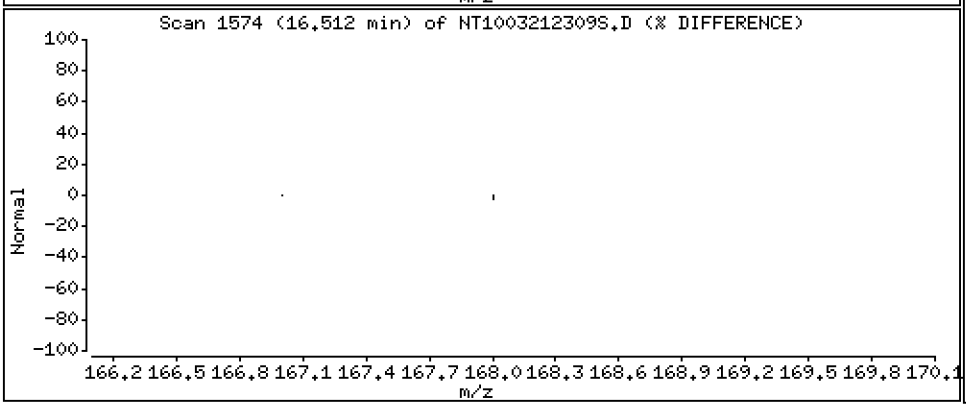












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Date : 21-MAR-2023 22:18

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-SRM2

Volume Injected (uL): 1.0

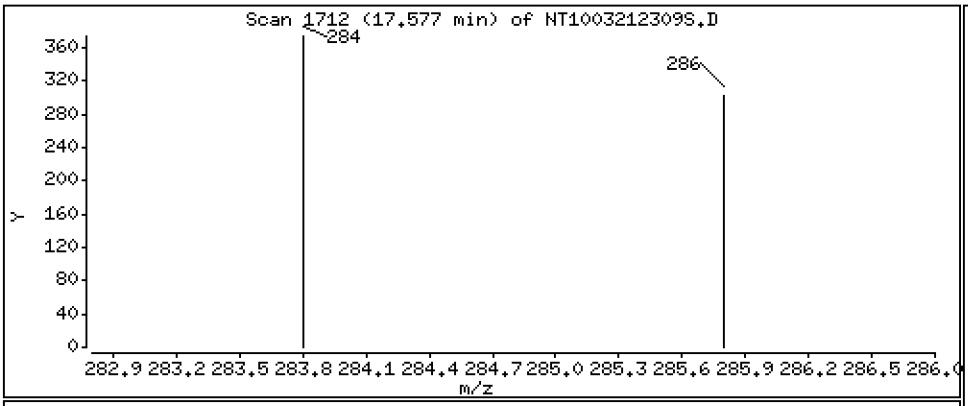
Operator: JGR

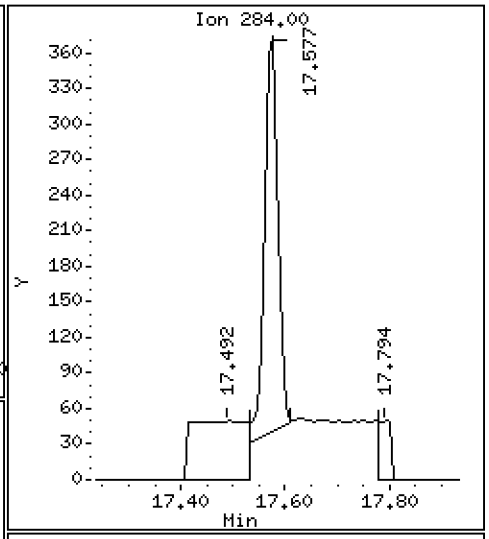
Column phase: ZB-5msi

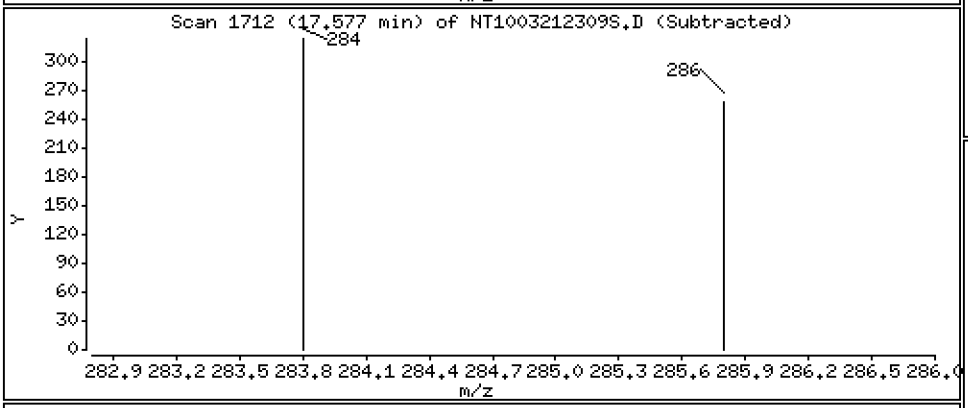
Column diameter: 0.25

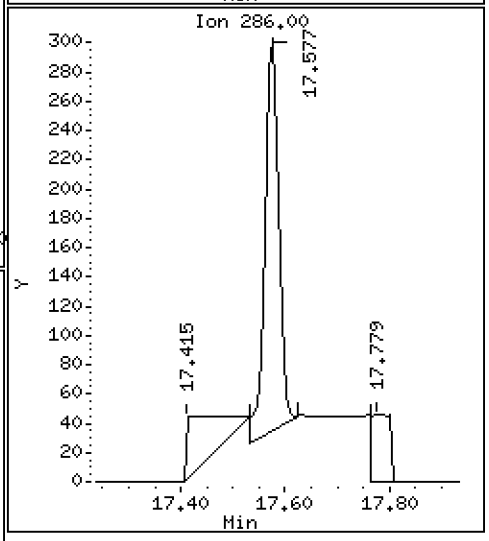
57 Hexachlorobenzene

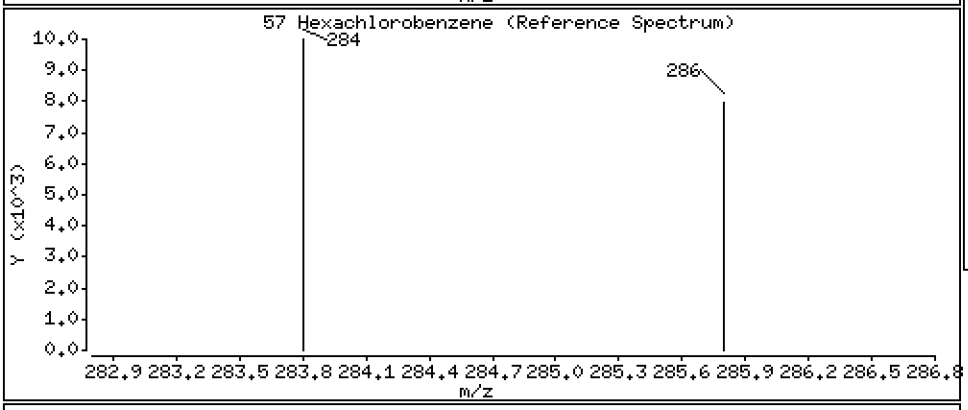
Concentration: 0.01435 ug/L

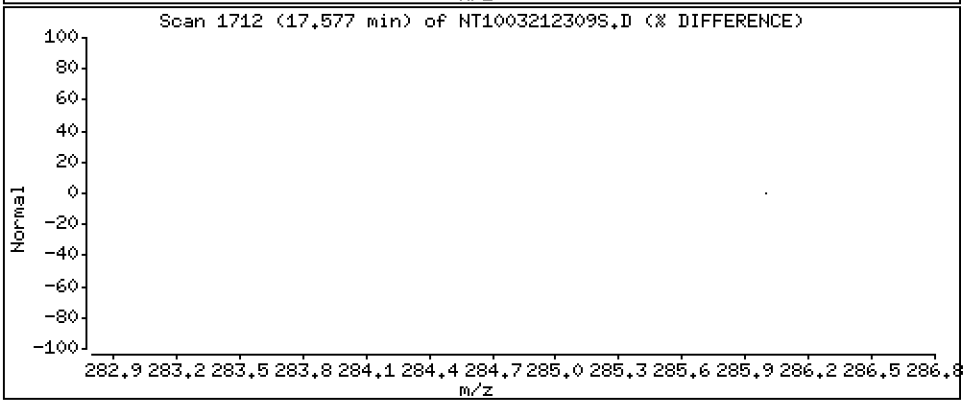












Date : 21-MAR-2023 22:18

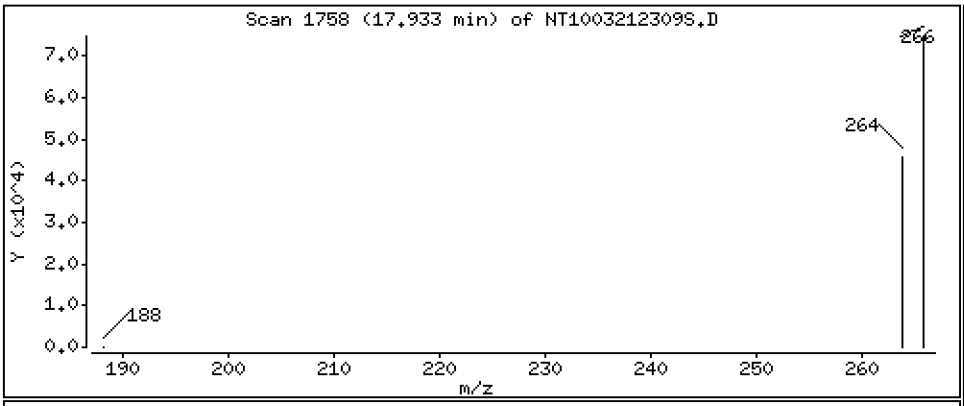
Client ID: Instrument: nt10.i

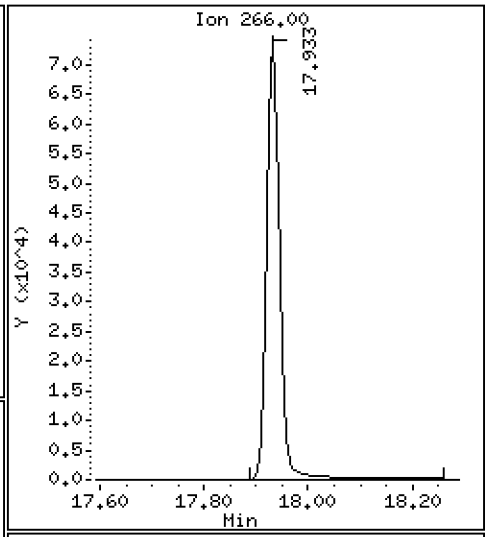
Sample Info: BLC0109-SRM2

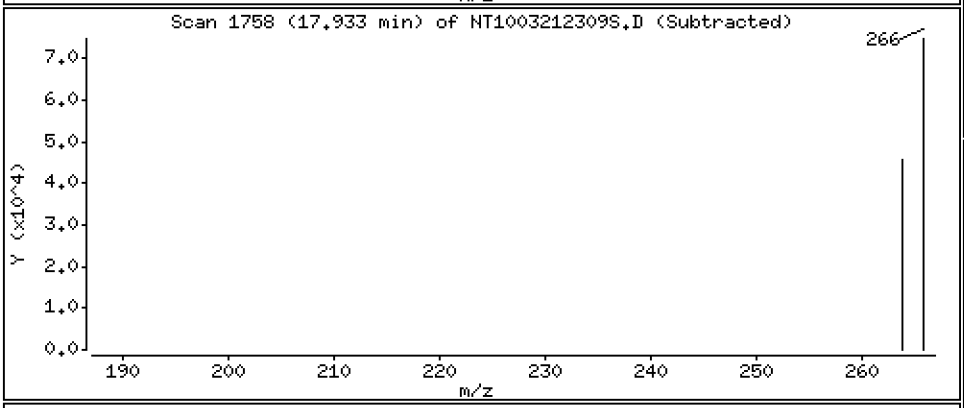
Volume Injected (uL): 1.0 Operator: JGR

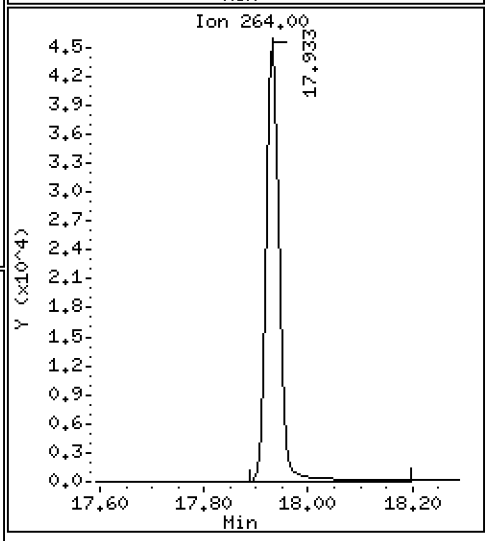
Column phase: ZB-5msi Column diameter: 0.25

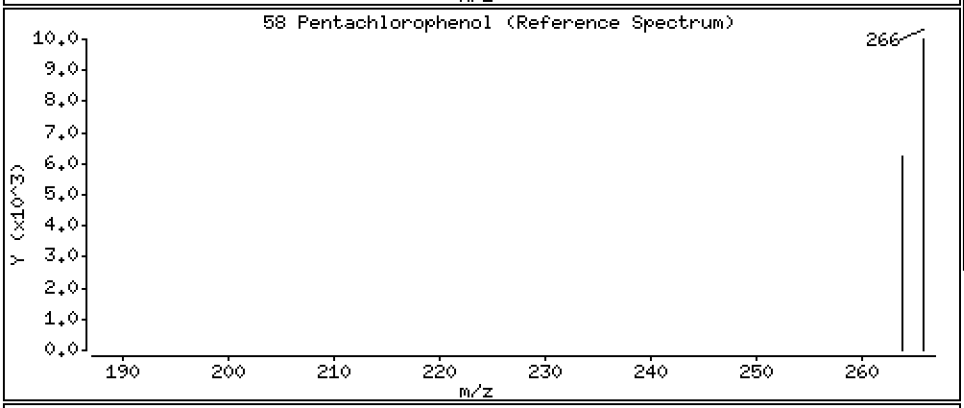
58 Pentachlorophenol Concentration: 5.139 ug/L

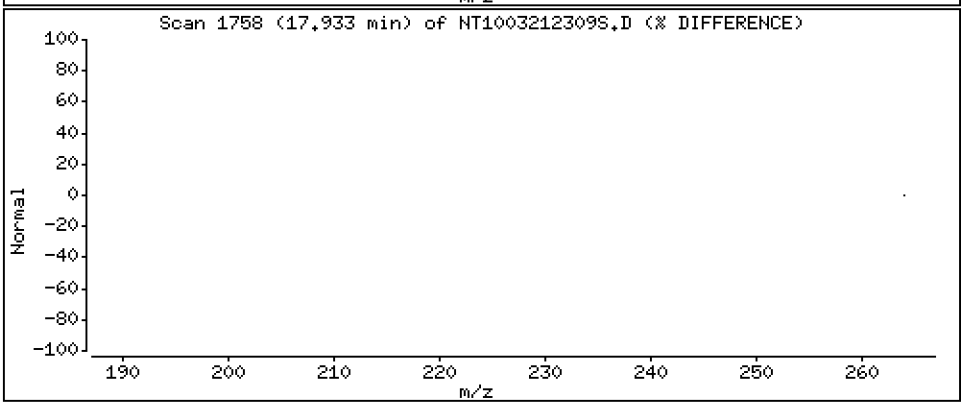












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Date : 21-MAR-2023 22:18

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-SRM2

Volume Injected (uL): 1.0

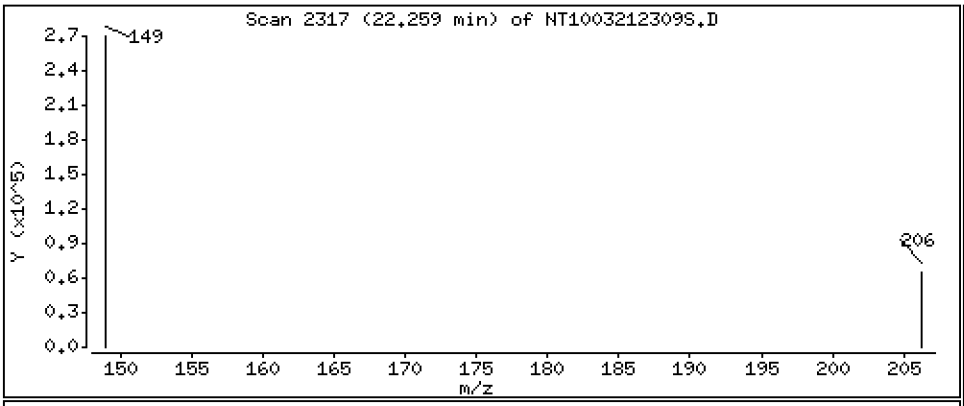
Operator: JGR

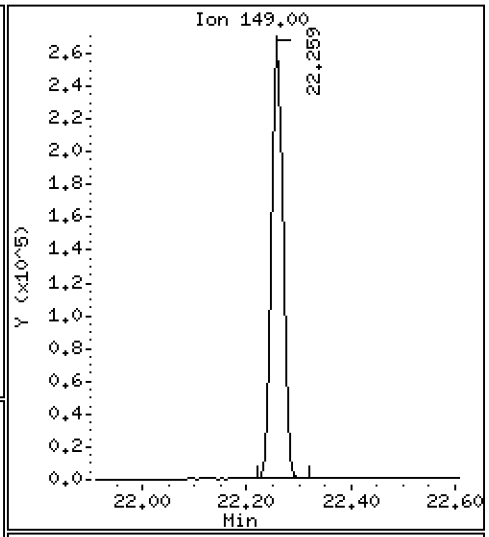
Column phase: ZB-5msi

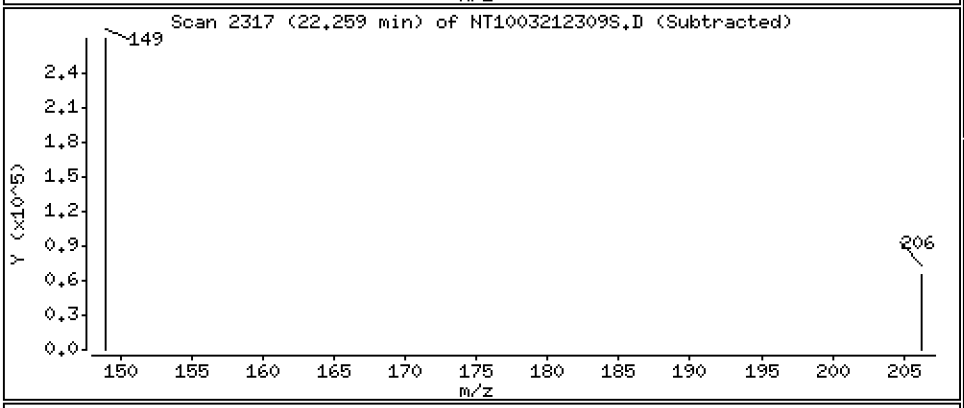
Column diameter: 0.25

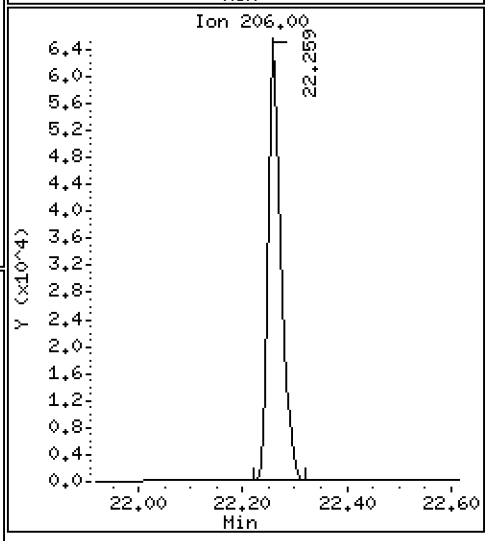
67 Butylbenzylphthalate

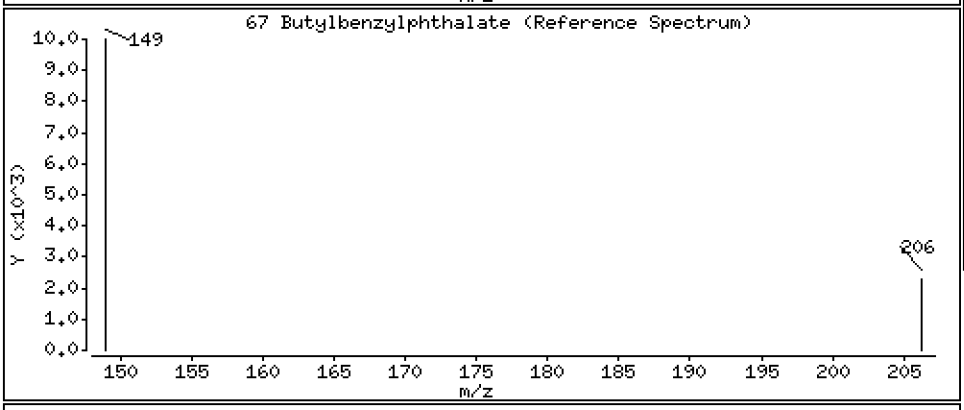
Concentration: 4.686 ug/L

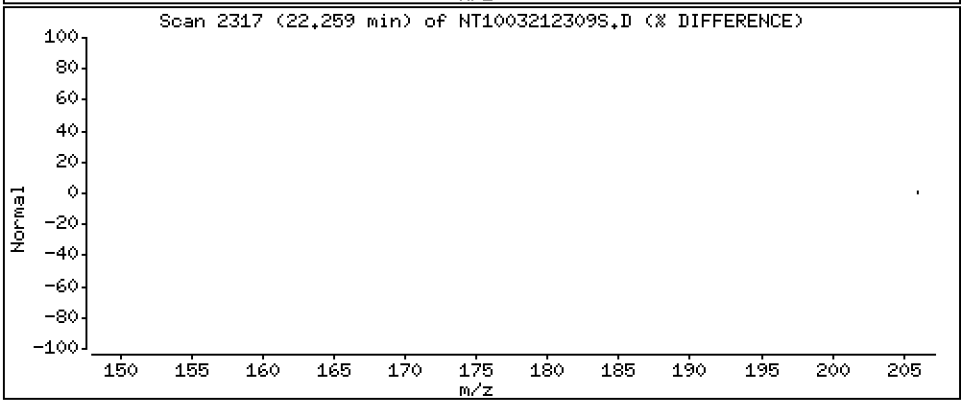












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Date : 21-MAR-2023 22:18

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-SRM2

Volume Injected (uL): 1.0

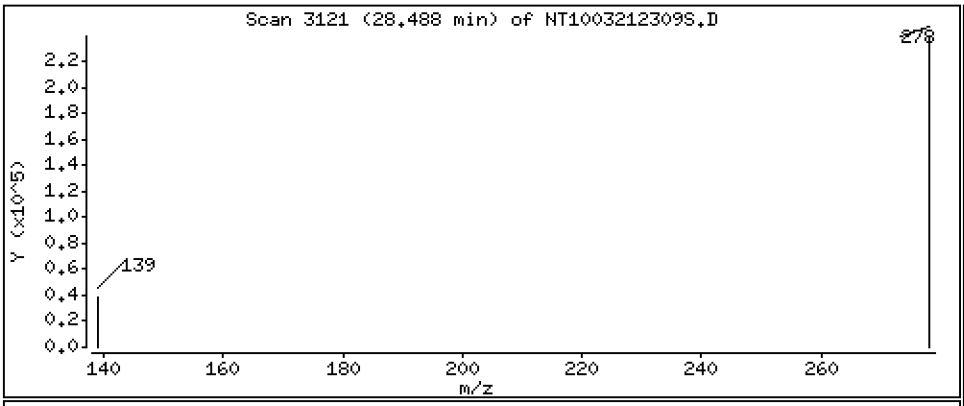
Operator: JGR

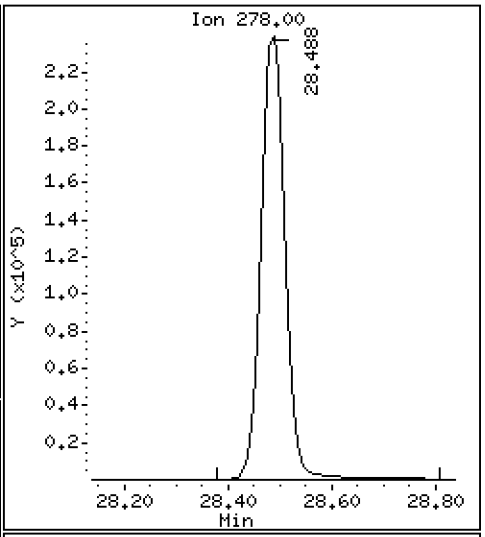
Column phase: ZB-5msi

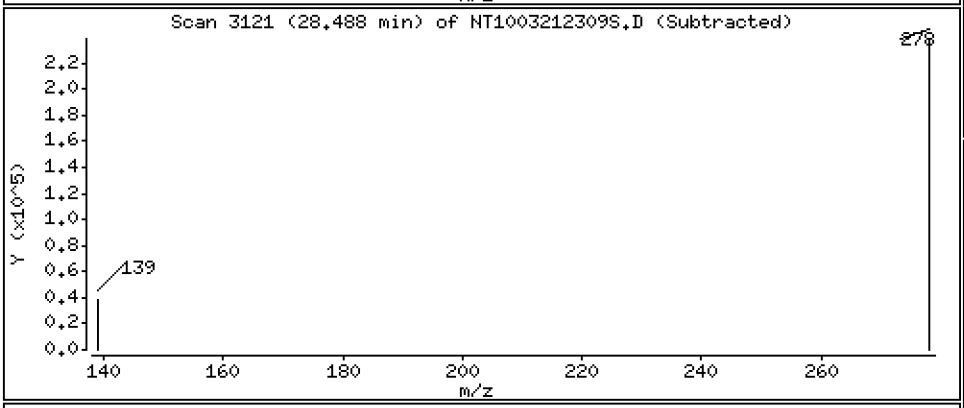
Column diameter: 0.25

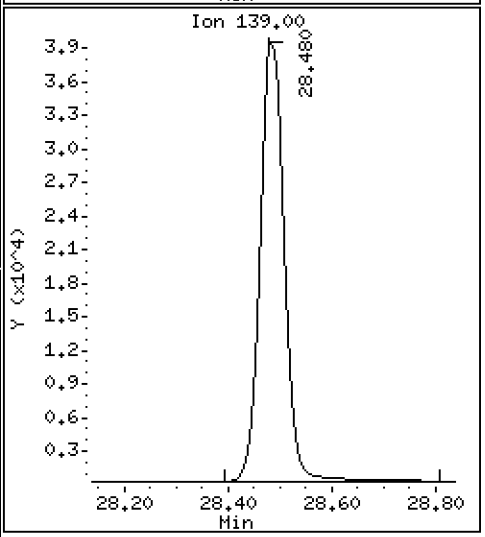
79 Dibenzo(a,h)anthracene

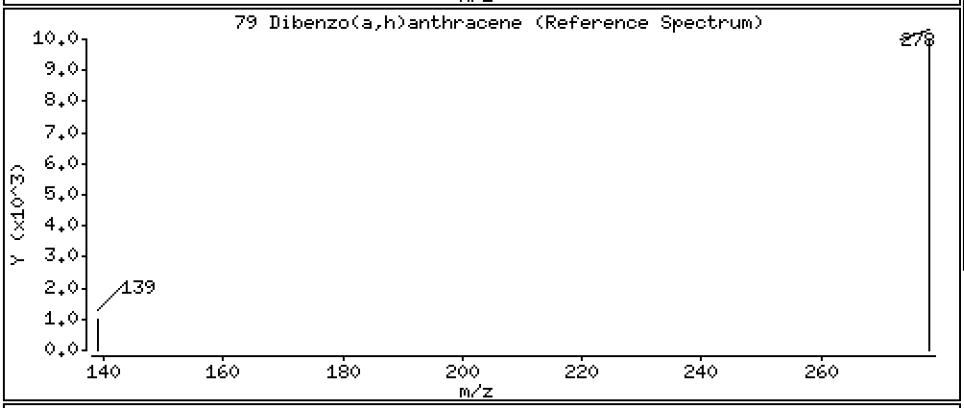
Concentration: 3.552 ug/L

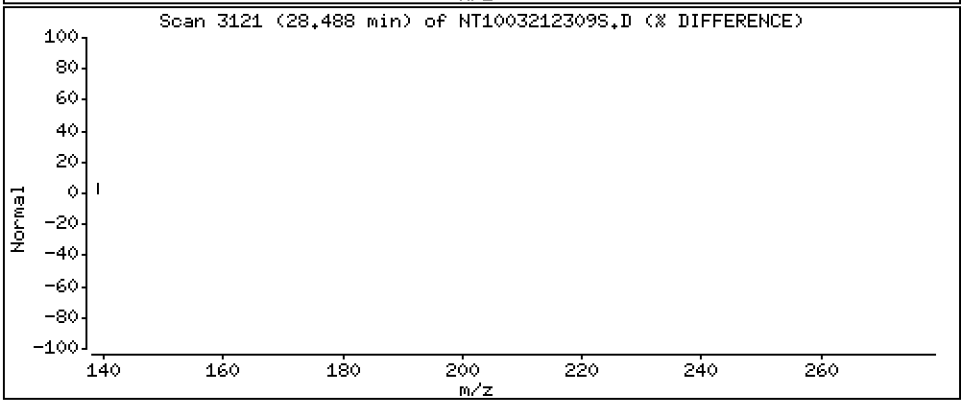












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Date : 21-MAR-2023 22:18

Client ID:

Instrument: nt10.i

Sample Info: BLC0109-SRM2

Volume Injected (uL): 1.0

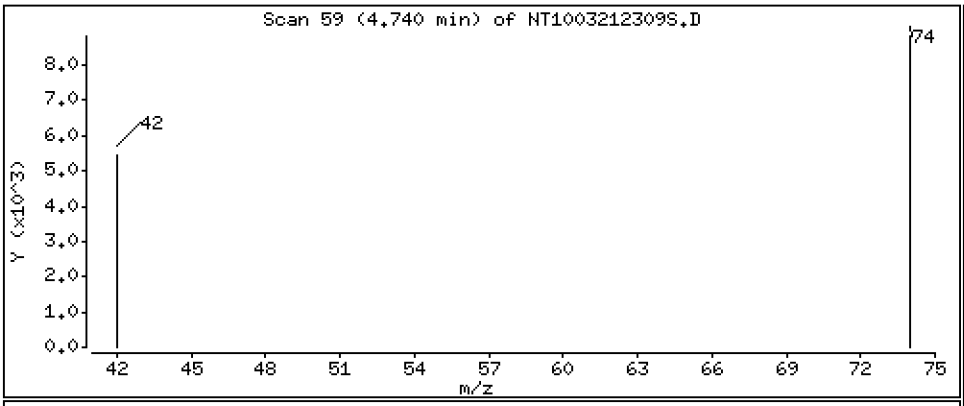
Operator: JGR

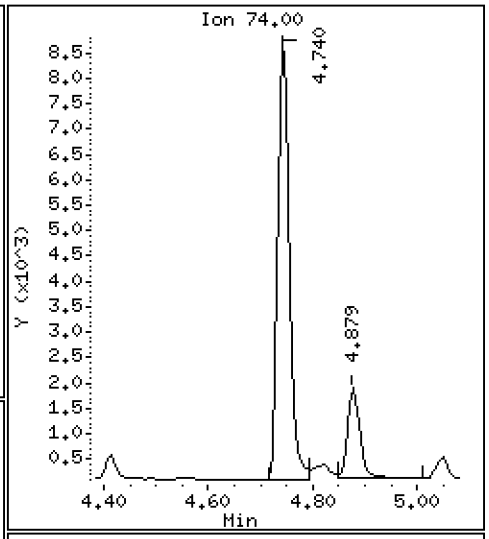
Column phase: ZB-5msi

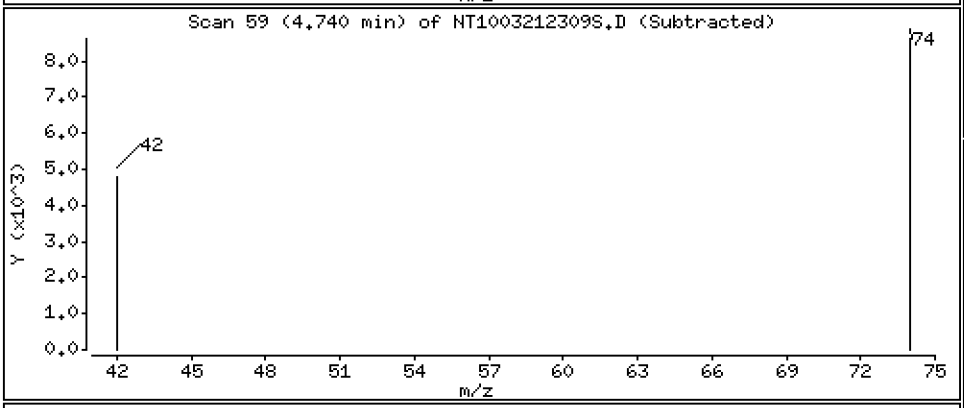
Column diameter: 0.25

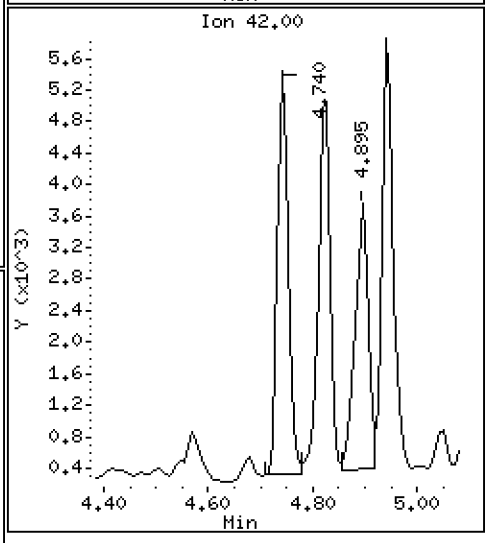
90 N-Nitrosodimethylamine

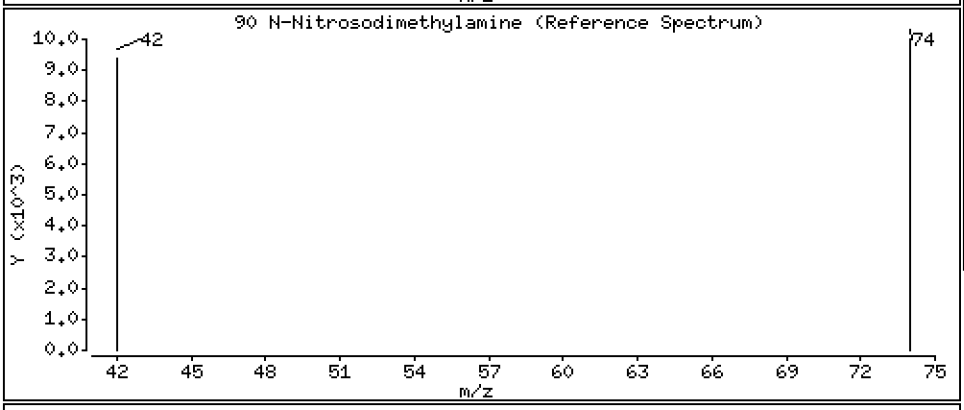
Concentration: 0.3205 ug/L

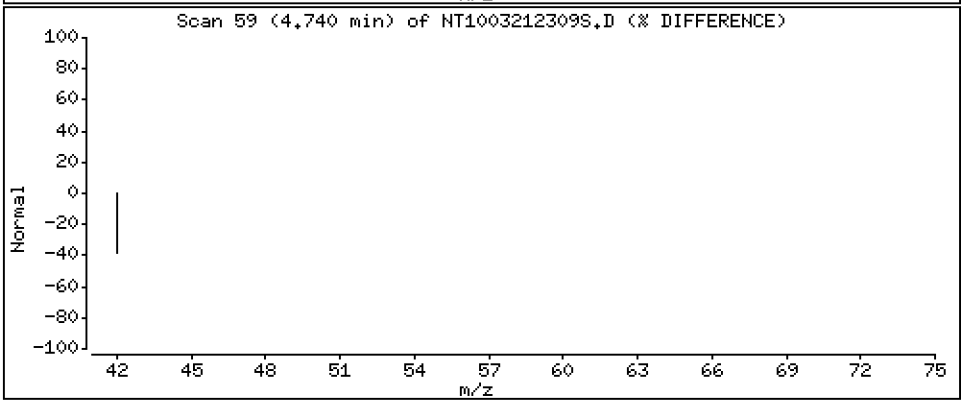












ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212309S.D
Lab Smp Id: BLC0109-SRM2
Inj Date : 21-MAR-2023 22:18 MS Autotune Date: 16-JAN-2023 17:42
Operator : JGR Inst ID: nt10.i
Smp Info : BLC0109-SRM2
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230321.b\20230321.b\SIMABN2.m
Meth Date : 29-Mar-2023 09:55 van Quant Type: ISTD
Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
$ 1	2-Fluorophenol	112	6.895	6.895	(0.757)	324149	5.25127	5.251(R)
3	Phenol	94	8.494	8.494	(0.933)	160857	1.89944	1.899
7	1,3-Dichlorobenzene	146	9.035	9.043	(0.992)	15954	0.20133	0.2013
* 8	1,4-Dichlorobenzene-d4	152	9.105	9.105	(1.000)	203557	4.00000	
9	1,4-Dichlorobenzene	146	9.136	9.136	(1.003)	957	0.01251	0.01251
11	Benzyl alcohol	79	9.385	9.377	(1.031)	2148	0.04375	0.04375(M)
12	1,2-Dichlorobenzene	146	9.485	9.493	(1.042)	822	0.01093	0.01093
13	2-Methylphenol	108	9.602	9.602	(1.055)	223365	3.80648	3.806
15	4-Methylphenol	108	9.866	9.874	(1.084)	331821	5.44186	5.442
16	N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
22	2,4-Dimethylphenol	107	10.906	10.914	(0.942)	185308	2.99948	2.999
24	Benzoic acid	105	11.016	11.042	(0.952)	43694	1.28749	1.287
26	1,2,4-Trichlorobenzene	180	11.492	11.500	(0.993)	27193	0.43755	0.4375
* 27	Naphthalene-d8	136	11.577	11.585	(1.000)	714736	4.00000	
30	Hexachlorobutadiene	225	11.979	11.987	(1.035)	35175	0.93092	0.9309
39	Dimethylphthalate	163	14.688	14.695	(0.968)	590051	5.15600	5.156
* 42	Acenaphthene-d10	162	15.175	15.183	(1.000)	362644	4.00000	
50	Diethylphthalate	149	16.134	16.141	(1.063)	22340	0.18844	0.1884
54	N-Nitrosodiphenylamine	169	16.512	16.520	(0.907)	325361	3.51820	3.518
57	Hexachlorobenzene	284	17.577	17.584	(0.966)	594	0.01435	0.01435

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	58 Pentachlorophenol	266	17.933	17.941	(0.986)	121072	5.13903	5.139
*	59 Phenanthrene-d10	188	18.196	18.196	(1.000)	689280	4.00000	
$	66 Terphenyl-d14	244	21.330	21.337	(0.918)	412164	4.31436	4.314(R)
	67 Butylbenzylphthalate	149	22.259	22.259	(0.958)	381527	4.68590	4.686
*	69 Chrysene-d12	240	23.227	23.234	(1.000)	586323	4.00000	
*	77 Perylene-d12	264	25.836	25.836	(1.000)	665521	4.00000	
	79 Dibenzo(a,h)anthracene	278	28.487	28.487	(1.103)	760228	3.55211	3.552
	90 N-Nitrosodimethylamine	74	4.740	4.732	(0.521)	12549	0.32054	0.3205

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1003212309S.D
Lab Smp Id: BLC0109-SRM2
Analysis Type: SV
Quant Type: ISTD
Operator: JGR
Method File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\SIMABN2.m
Misc Info:

Calibration Date: 21-MAR-2023
Calibration Time: 18:25
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	162628	81314	325256	203557	25.17
27 Naphthalene-d8	580280	290140	1160560	714736	23.17
42 Acenaphthene-d10	297255	148628	594510	362644	22.00
59 Phenanthrene-d10	561093	280547	1122186	689280	22.85
69 Chrysene-d12	498827	249414	997654	586323	17.54
77 Perylene-d12	558480	279240	1116960	665521	19.17

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.11	8.61	9.61	9.11	0.00
27 Naphthalene-d8	11.59	11.09	12.09	11.58	-0.07
42 Acenaphthene-d10	15.18	14.68	15.68	15.18	-0.05
59 Phenanthrene-d10	18.20	17.70	18.70	18.20	0.00
69 Chrysene-d12	23.23	22.73	23.73	23.23	-0.03
77 Perylene-d12	25.84	25.34	26.34	25.84	0.00

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

REVIEW SUMMARY FOR FILE - NT1003212309S.D

Lab ID: BLC0109-SRM2
nt10.i, 20230321.b\20230321.b\SIMABN2.m,   21-MAR-2023 22:18

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

RRT check based on Ccal File: 20230321.b/NT1003212303S.D

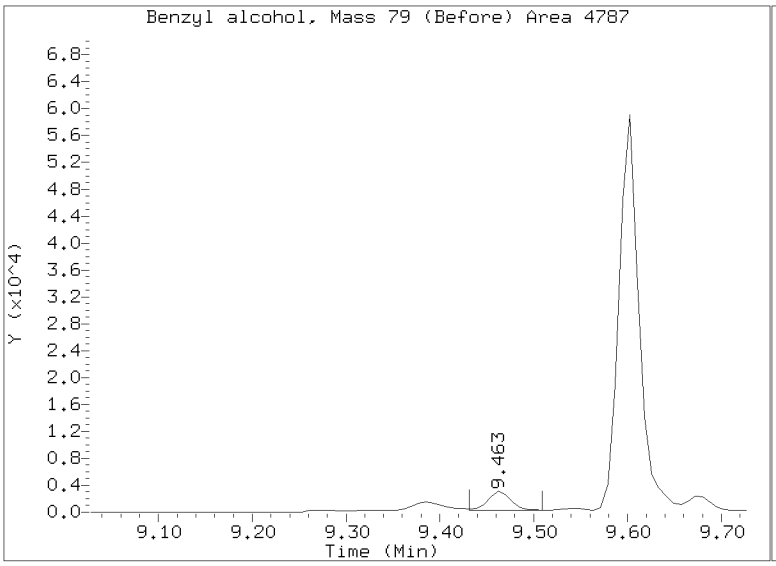
On Column LOD for nt10.i, 20230321.b\SIMABN2.m, PSDDA.sub = 0.0000

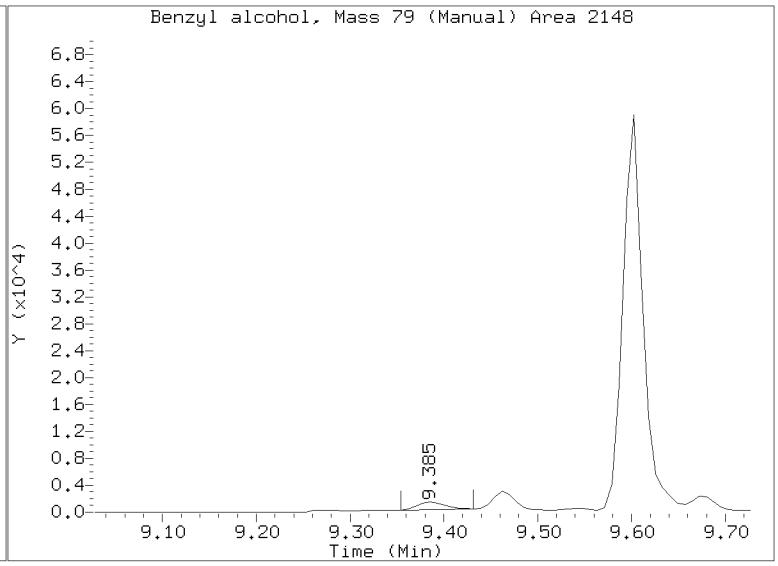
Exception: 1,2,4-Trichlorobenzene 0.0010

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230321.b/20230321.b/NT1003212309S.D
Injection Date: 21-MAR-2023 22:18
Lab ID:BLC0109-SRM2 Client ID:
Report Date: 03/29/2023 13:24





Analytical Resources, LLC
Analytical Chemists and Consultants

MASS SPECTROMETER
INSTRUMENT PERFORMANCE CHECK
EPA 8270E-SIM

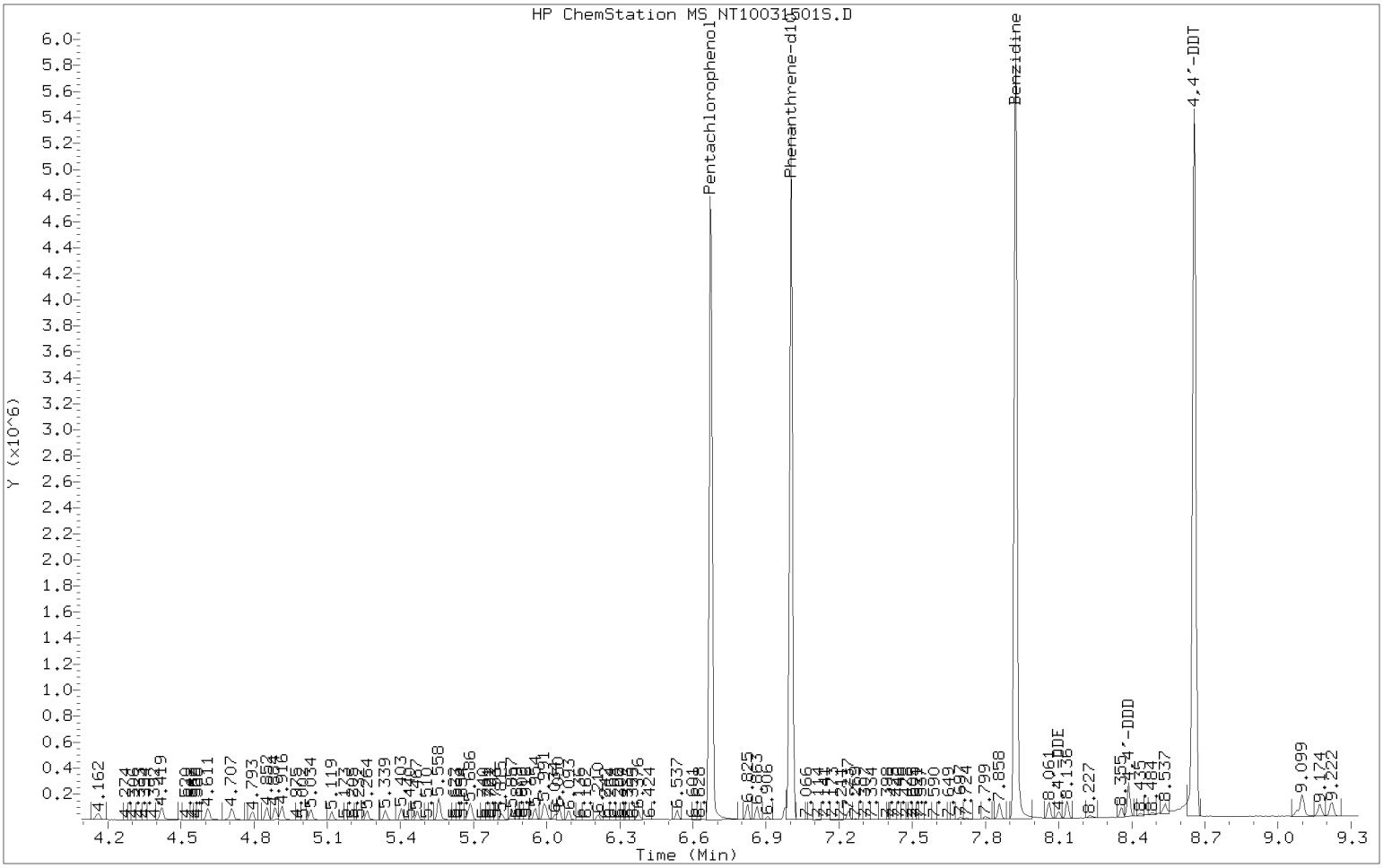
Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Lab File ID:	NT10031501S.D	Injection Date:	03/15/23
Instrument ID:	NT10	Injection Time:	20:19
Sequence:	SLC0238	Lab Sample ID:	SLC0238-TUN1

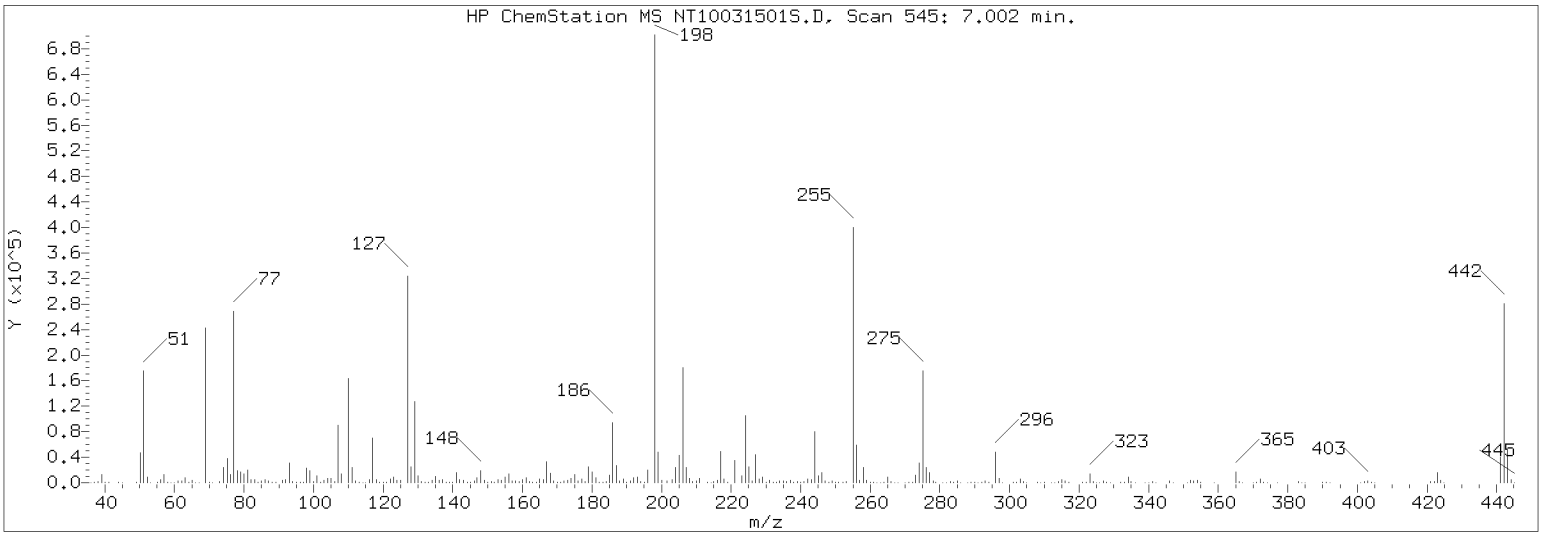
m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
68	Less than 2% of 69	0.372	PASS
69	Less than 100% of 198	36.5	PASS
70	Less than 2% of 69	0.498	PASS
197	Less than 2% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.88	PASS
365	1 - 100% of 198	2.52	PASS
441	Less than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

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
MS Tune	SLC0238-TUN1	NT10031501S.D	03/15/2023	20:19
Cal Standard	SLC0238-CAL8	NT10031503S.D	03/15/2023	21:12
Cal Standard	SLC0238-CAL7	NT10031504S.D	03/15/2023	21:50
Cal Standard	SLC0238-CAL6	NT10031505S.D	03/15/2023	22:28
Cal Standard	SLC0238-CAL5	NT10031506S.D	03/15/2023	23:06
Cal Standard	SLC0238-CAL4	NT10031507S.D	03/15/2023	23:44
Cal Standard	SLC0238-CAL3	NT10031508S.D	03/16/2023	0:22
Cal Standard	SLC0238-CAL2	NT10031509S.D	03/16/2023	1:00
Cal Standard	SLC0238-CAL1	NT10031510S.D	03/16/2023	1:38
Secondary Cal Check	SLC0238-SCV1	NT10031511S.D	03/16/2023	2:16
Initial Cal Blank	SLC0238-ICB1	NT10031512S.D	03/16/2023	2:54

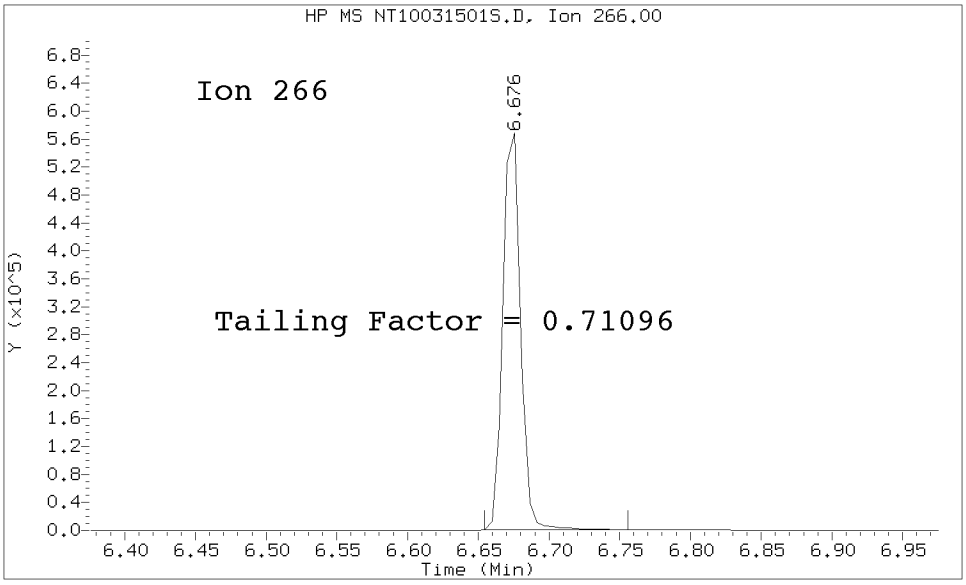
DFTPP TAILING FACTOR AND BREAKDOWN GRAPHIC REPORT

Datafile Analyzed: /20230315.b/20230315.b/NT10031501S.D/NT10031501S.D
Method Used: \20230315.b\20230315.b\DFTPP8270E.m Inst: nt10
Injection Date: 15-MAR-2023 20:19 Operator: JGR
Sample Info: SLC0238-TUN1 SLC0238-TUN1
Report Date: 03/16/2023 14:49



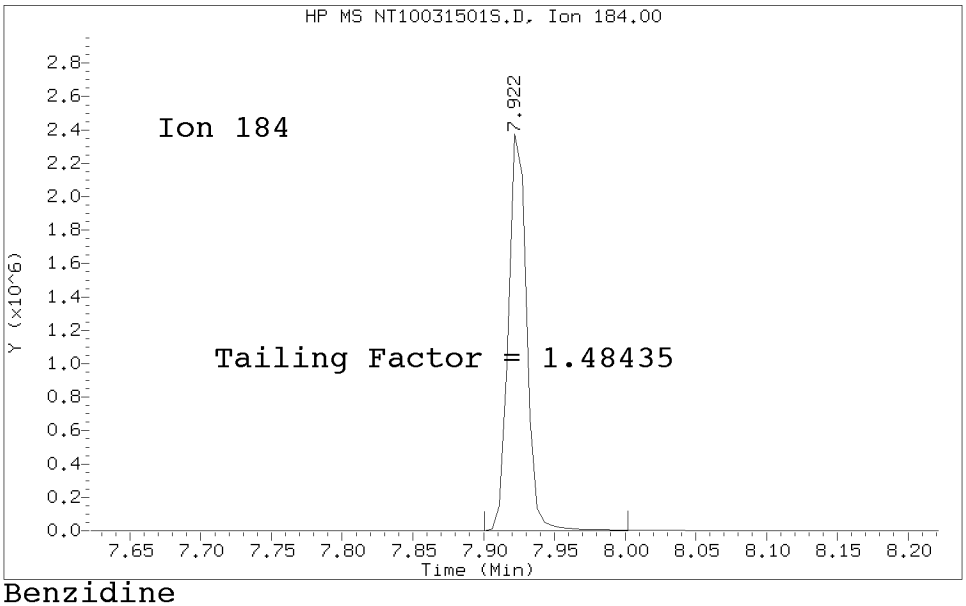


Datafile Analyzed: /20230315.b/20230315.b/NT10031501S.D/NT10031501S.D
Method Used: \20230315.b\20230315.b\DFTPP8270E.m\sw846ddt.m Inst: nt10
Injection Date: 15-MAR-2023 20:19 Operator: JGR
Sample Info: SEQ-TUN1
Report Date: 03/16/2023 14:49



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

Tail Factor = 0.711 Maximum Allowed = 2.0



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

Tail Factor = 1.484 Maximum Allowed = 2.0

8270 TAILING FACTOR/BREAKDOWN SUMMARY RESULTS

TAILING ANALYSIS SUMMARY

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

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

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

Tuning Sample, nt10.i/20230315.b/20230315.b/NT10031501S.D, *** PASSED ***

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

Data File: NT10031501S.D
Spectrum: Avg. Scans 544-546 (7.00), Background Scan 536
Location of Maximum: 198.00
Number of points: 316

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

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

INITIAL CALIBRATION DATA

EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GC00049	Instrument:	NT10
Calibration Date:	03/15/2023	Column (1):	ZB-5MSi

Calibration Comments: SIM ABN ICAL

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RRF	Conc	**RRF**	Conc	RRF	Conc	RRF	Conc	**RRF**	Conc	**RRF**
1,4-Dichlorobenzene	0.05	1.592272	0.1	1.586931	0.2	1.531032	0.5	1.525923	1	1.515432	2.5	1.504782
1,2-Dichlorobenzene	0.05	1.56064	0.1	1.560751	0.2	1.516719	0.5	1.51987	1	1.490507	2.5	1.472424
Benzyl Alcohol	0.05	0.782671	0.1	0.8201691	0.2	0.8740273	0.5	1.001336	1	1.030407	2.5	1.109109
Benzoic acid	0.2		0.4		0.8	6.708155E-03	2	6.190403E-02	4	0.1152489	10	0.1827842
2,4-Dimethylphenol	0.1	0.3036003	0.2	0.3286116	0.4	0.3508719	1	0.3747964	2	0.3711962	5	0.3672727
1,2,4-Trichlorobenzene	0.05	0.3845889	0.1	0.3611836	0.2	0.3536726	0.5	0.3564226	1	0.3477346	2.5	0.3419587
N-Nitrosodiphenylamine	0.05	0.4535426	0.1	0.5106592	0.2	0.5366733	0.5	0.5716845	1	0.5845597	2.5	0.5722409
Pentachlorophenol	0.1	2.310914E-02	0.2	3.752894E-02	0.4	5.531502E-02	1	8.792089E-02	2	0.1125666	5	0.1349126
2-Fluorophenol	0.075	1.096851	0.15	1.182501	0.3	1.198448	0.75	1.278705	1.5	1.28736	3.75	1.294114
p-Terphenyl-d14	0.05	0.6363201	0.1	0.6085315	0.2	0.6174532	0.5	0.6484741	1	0.6506625	2.5	0.6938122

INITIAL CALIBRATION DATA

EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GC00049	Instrument:	NT10
Calibration Date:	03/15/2023	Column (1):	ZB-5MSi

Calibration Comments: SIM ABN ICAL

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
1,4-Dichlorobenzene	5	1.407857	10	1.361355								
1,2-Dichlorobenzene	5	1.378422	10	1.327177								
Benzyl Alcohol	5	1.078683	10	1.021686								
Benzoic acid	20	0.2157908	40	0.2329458								
2,4-Dimethylphenol	10	0.3419758	20	0.3276736								
1,2,4-Trichlorobenzene	5	0.3213898	10	0.3155673								
N-Nitrosodiphenylamine	5	0.5475779	10	0.5164376								
Pentachlorophenol	10	0.1437906	20	0.1522559								
2-Fluorophenol	7.5	1.204517	15	1.16136								
p-Terphenyl-d14	5	0.6837	10	0.6749908								

INITIAL CALIBRATION DATA

EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GC00049	Instrument:	NT10
Calibration Date:	03/15/2023	Column (1):	ZB-5MSi

Calibration Comments: SIM ABN ICAL

COMPOUND	Mean RRF	RRF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
1,4-Dichlorobenzene	1.503198	5.4			RSD (15)	
1,2-Dichlorobenzene	1.478314	5.7			RSD (15)	
Benzyl Alcohol	0.964761	12.7			RSD (15)	
Benzoic acid	0.135897	66.3		0.9947	QCOD (0.99)	
2,4-Dimethylphenol	0.3457498	7.2			RSD (15)	
1,2,4-Trichlorobenzene	0.3478148	6.3			RSD (15)	
N-Nitrosodiphenylamine	0.536672	8.0			RSD (15)	
Pentachlorophenol	9.342496E-02	53.7		0.9990	QCOD (0.99)	
2-Fluorophenol	1.212982	5.7			RSD (15)	
p-Terphenyl-d14	0.651743	4.7			RSD (15)	

ANALYSIS SEQUENCE

SLC0238

Instrument ID: NT10
Calibration ID: GC00049
MS EM Level: 1271 EV

GCMS Description: Agilent 5975/MS http://bi
GCMS Column ID: L002830

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	File ID	Analyst	Comments
SLC0238-TUN1	MS Tune	QC		1	L002618		03/15/2023 20:19	NT10031501S.D	JGR	
SLC0238-CAL8	ABN 10.0	QC		2	K011110	K010831	03/15/2023 21:12	NT10031503S.D	JGR	
SLC0238-CAL7	ABN 5.0	QC		3	K011109	K010831	03/15/2023 21:50	NT10031504S.D	JGR	
SLC0238-CAL6	ABN 2.5	QC		4	K011108	K010831	03/15/2023 22:28	NT10031505S.D	JGR	
SLC0238-CAL5	ABN 1.0	QC		5	K011107	K010831	03/15/2023 23:06	NT10031506S.D	JGR	
SLC0238-CAL4	ABN 0.5	QC		6	K011106	K010831	03/15/2023 23:44	NT10031507S.D	JGR	
SLC0238-CAL3	ABN 0.2	QC		7	K011105	K010831	03/16/2023 00:22	NT10031508S.D	JGR	
SLC0238-CAL2	ABN 0.1	QC		8	L002877	K010831	03/16/2023 01:00	NT10031509S.D	JGR	
SLC0238-CAL1	ABN 0.05	QC		9	L002878	K010831	03/16/2023 01:38	NT10031510S.D	JGR	
SLC0238-SCV1	SCV 5.0	QC		10	K010066	K010831	03/16/2023 02:16	NT10031511S.D	JGR	
SLC0238-ICB1	Initial Cal Blank	QC		11	K005156	K010831	03/16/2023 02:54	NT10031512S.D	JGR	

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230315.b\20230315.b

	Time	Filename	LabID	ClientId	DF											
1	2019	NT10031501S.D	SLC0238-TUN1		1	|NO ISTDS FOUND||										
2	2034	NT10031502S.D	FULL SCAN ONLY		1	9.31	193857	11.78	709633	15.39	344841	18.43	635594	23.46	392013	26.19	449978
3	2112	NT10031503S.D	SLC0238-CAL8		1	9.31	192425	11.78	689875	15.39	341663	18.42	651934	23.45	482051	26.19	502718
4	2150	NT10031504S.D	SLC0238-CAL7		1	9.30	187419	11.77	682446	15.38	331603	18.42	598629	23.45	389338	26.19	466441
5	2228	NT10031505S.D	SLC0238-CAL6		1	9.30	173412	11.78	624286	15.38	310309	18.43	554860	23.46	385144	26.19	456369
6	2306	NT10031506S.D	SLC0238-CAL5		1	9.30	188081	11.77	674549	15.39	328275	18.42	597140	23.45	466503	26.19	518203
7	2344	NT10031507S.D	SLC0238-CAL4		1	9.30	191648	11.77	679665	15.39	335786	18.42	613961	23.45	464623	26.19	521317
8	0022	NT10031508S.D	SLC0238-CAL3		1	9.30	188644	11.78	664117	15.38	328147	18.42	603272	23.46	468991	26.18	525052
9	0100	NT10031509S.D	SLC0238-CAL2		1	9.30	190985	11.77	684638	15.39	328366	18.42	602202	23.45	451316	26.19	517188
10	0138	NT10031510S.D	SLC0238-CAL1		1	9.30	187154	11.78	654413	15.38	318969	18.42	583319	23.46	440533	26.19	488759
11	0216	NT10031511S.D	SLC0238-SCV1		1	9.31	166866	11.78	612104	15.39	302524	18.43	553619	23.46	465428	26.19	532593
12	0254	NT10031512S.D	SLC0238-ICB1		1	9.31	189475	11.77	676186	15.38	328650	18.42	617605	23.45	473513	26.19	534734

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230315.b\20230315.b

Instrument: nt10.i Date: 15-MAR-2023

Time	Filename	LabID	DF	Manually Integrated Compounds
2019	NT10031501S.D	SLC0238-TUN1	1	NO MANUAL INTEGRATION
2034	NT10031502S.D	FULL SCAN ONLY	1	NO MANUAL INTEGRATION
2112	NT10031503S.D	SLC0238-CAL8	1	NO MANUAL INTEGRATION
2150	NT10031504S.D	SLC0238-CAL7	1	NO MANUAL INTEGRATION
2228	NT10031505S.D	SLC0238-CAL6	1	NO MANUAL INTEGRATION
2306	NT10031506S.D	SLC0238-CAL5	1	NO MANUAL INTEGRATION
2344	NT10031507S.D	SLC0238-CAL4	1	NO MANUAL INTEGRATION
0022	NT10031508S.D	SLC0238-CAL3	1	Benzoic acid,
0100	NT10031509S.D	SLC0238-CAL2	1	Pentachlorophenol,
0138	NT10031510S.D	SLC0238-CAL1	1	Pentachlorophenol,
0216	NT10031511S.D	SLC0238-SCV1	1	Terphenyl-d14,
0254	NT10031512S.D	SLC0238-ICB1	1	NO MANUAL INTEGRATION

Security Status Report

Date: 16-Mar-2023 14:47

NT10031501S.D	Data Locked	van, 16-Mar-2023 14:47
NT10031502S.D	Data Locked	van, 16-Mar-2023 14:47
NT10031503S.D	Data Locked	van, 16-Mar-2023 14:47
NT10031504S.D	Data Locked	van, 16-Mar-2023 14:47
NT10031505S.D	Data Locked	van, 16-Mar-2023 14:47
NT10031506S.D	Data Locked	van, 16-Mar-2023 14:47
NT10031507S.D	Data Locked	van, 16-Mar-2023 14:47
NT10031508S.D	Data Locked	van, 16-Mar-2023 14:47
NT10031509S.D	Data Locked	van, 16-Mar-2023 14:47
NT10031510S.D	Data Locked	van, 16-Mar-2023 14:47
NT10031511S.D	Data Locked	van, 16-Mar-2023 14:47
NT10031512S.D	Data Locked	van, 16-Mar-2023 14:47

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 15-MAR-2023 21:12
End Cal Date : 16-MAR-2023 01:38
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Last Edit : 16-Mar-2023 14:34 van

Calibration File Names:
Level 1: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031510S.D
Level 2: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031509S.D
Level 3: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031508S.D
Level 4: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031507S.D
Level 5: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031506S.D
Level 6: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031505S.D
Level 7: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031504S.D
Level 8: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031503S.D

Compound	0.0500000 Level 1	0.1000000 Level 2	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7	10.0000 Level 8									
138 Chlorobenzilate	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
139 Isodrin	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
140 Diallate A	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 15-MAR-2023 21:12
End Cal Date : 16-MAR-2023 01:38
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Last Edit : 16-Mar-2023 14:34 van

Compound	0.0500000 Level 1	0.1000000 Level 2	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7	10.0000 Level 8									
141 Diallate B	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
142 1,2-Dibromo-3-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
135 2,3,5,6-Tetrachlorophenol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
136 2,3,4,5-tetrachlorophenol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
137 NewCpnd_131	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
133 Butylatedhydroxytoluene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
132 3,6-Dimethylphenanthrene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 15-MAR-2023 21:12
End Cal Date : 16-MAR-2023 01:38
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Last Edit : 16-Mar-2023 14:34 van

Compound	0.0500000 Level 1	0.1000000 Level 2	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7	10.0000 Level 8									
131 1-Methylphenanthrene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
146 Benzo(j)fluoranthene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
130 Dibenzothiophene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
129 1-Methylfluorene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
128 N-Hexadecane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
127 2-Isopropylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
126 N-Tetradecane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 15-MAR-2023 21:12
End Cal Date : 16-MAR-2023 01:38
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Last Edit : 16-Mar-2023 14:34 van

Compound	0.0500000 Level 1	0.1000000 Level 2	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7	10.0000 Level 8									
144 alpha-Terpineol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
125 Safrole	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
124 3,4-Dimethylphenol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
123 Acetophenone	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
122 Furfuraldehyde	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
143 1,4-Dioxane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
121 Quinoline	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 15-MAR-2023 21:12
End Cal Date : 16-MAR-2023 01:38
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Last Edit : 16-Mar-2023 14:34 van

Compound	0.0500000 Level 1	0.1000000 Level 2	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7	10.0000 Level 8									
120 2,3,4,6-Tetrachlorophenol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
119 7,12-Dimethylbenz(a)anthracen	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
118 Triphenyl Phosphate	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
117 Butyl Diphenyl Phosphate	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
116 Dibutyl Phenyl Phosphate	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
115 Tributyl Phosphate	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
114 Beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 15-MAR-2023 21:12
End Cal Date : 16-MAR-2023 01:38
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Last Edit : 16-Mar-2023 14:34 van

Compound	0.0500000 Level 1	0.1000000 Level 2	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7	10.0000 Level 8									
113 Diphenyl Oxide	*****	*****	*****	*****	*****	*****					
	*****	*****					AVRG		0.000e+000		0.000e+000
112 Biphenyl	*****	*****	*****	*****	*****	*****					
	*****	*****					AVRG		0.000e+000		0.000e+000
111 Azobenzene (1,2-DP-Hydrazine)	*****	*****	*****	*****	*****	*****					
	*****	*****					AVRG		0.000e+000		0.000e+000
110 Tetrachloroguaiacol	*****	*****	*****	*****	*****	*****					
	*****	*****					AVRG		0.000e+000		0.000e+000
109 3,4,5-Trichloroguaiacol	*****	*****	*****	*****	*****	*****					
	*****	*****					AVRG		0.000e+000		0.000e+000
108 4,5,6-Trichloroguaiacol	*****	*****	*****	*****	*****	*****					
	*****	*****					AVRG		0.000e+000		0.000e+000
107 4,5-Dichloro-2-Methoxyphenol	*****	*****	*****	*****	*****	*****					
	*****	*****					AVRG		0.000e+000		0.000e+000

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 15-MAR-2023 21:12
End Cal Date : 16-MAR-2023 01:38
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Last Edit : 16-Mar-2023 14:34 van

Compound	0.0500000 Level 1	0.1000000 Level 2	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7	10.0000 Level 8									
106 Guaiacol	*****	*****	*****	*****	*****	*****					
	*****	*****					AVRG		0.000e+000		0.000e+000
105 1-methylnaphthalene	*****	*****	*****	*****	*****	*****					
	*****	*****					AVRG		0.000e+000		0.000e+000
3 Phenol	1.56149	1.65772	1.68063	1.76515	1.75148	1.75667					
	1.62297	1.51697					AVRG		1.66414		5.59099
4 Bis(2-Chloroethyl)ether	*****	*****	*****	*****	*****	*****					
	*****	*****					AVRG		0.000e+000		0.000e+000
6 2-Chlorophenol	*****	*****	*****	*****	*****	*****					
	*****	*****					AVRG		0.000e+000		0.000e+000
7 1,3-Dichlorobenzene	1.66537	1.66694	1.59369	1.58637	1.56403	1.55057					
	1.44651	1.38404					AVRG		1.55719		6.34113
9 1,4-Dichlorobenzene	1.59227	1.58693	1.53103	1.52592	1.51543	1.50478					
	1.40786	1.36136					AVRG		1.50320		5.36917

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 15-MAR-2023 21:12
End Cal Date : 16-MAR-2023 01:38
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Last Edit : 16-Mar-2023 14:34 van

Compound	0.0500000 Level 1 / 5.0000 Level 7	0.1000000 Level 2 / 10.0000 Level 8	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
11 Benzyl alcohol	0.78267	0.82017	0.87403	1.00134	1.03041	1.10911					
	1.07868	1.02169					AVRG		0.96476		12.69470
12 1,2-Dichlorobenzene	1.56064	1.56075	1.51672	1.51987	1.49051	1.47242					
	1.37842	1.32718					AVRG		1.47831		5.70440
13 2-Methylphenol	1.10796	1.06982	1.09063	1.18375	1.19440	1.23938					
	1.18782	1.15101					AVRG		1.15310		5.09645
14 2,2'-oxybis(1-Chloropropane)	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
15 4-Methylphenol	1.03102	1.10647	1.13727	1.24194	1.26988	1.30504					
	1.27388	1.22012					AVRG		1.19820		8.02665
16 N-Nitroso-di-n-propylamine	0.74420	0.77640	0.80427	0.88191	0.89897	0.92866					
	0.89355	0.85105					AVRG		0.84738		7.74495
17 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000

ARI Labs, Inc.

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Integrator : HP RTE
Method file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Last Edit : 16-Mar-2023 14:34 van

Compound	0.0500000 Level 1 / 5.0000 Level 7	0.1000000 Level 2 / 10.0000 Level 8	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
19 Nitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
20 Isophorone	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
21 2-Nitrophenol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
22 2,4-Dimethylphenol	0.30360	0.32861	0.35087	0.37480	0.37120	0.36727					
	0.34198	0.32767					AVRG		0.34575		7.24468
23 Bis(2-Chloroethoxy)methane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
24 Benzoic acid	+++++	+++++	891	21037	77741	285274					
	736328	1607035					QUAD	0.000e+000	5.29174	-0.43541	0.99817
25 2,4-Dichlorophenol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000

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Start Cal Date : 15-MAR-2023 21:12
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Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Last Edit : 16-Mar-2023 14:34 van

Compound	0.0500000 Level 1	0.1000000 Level 2	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7	10.0000 Level 8									
26 1,2,4-Trichlorobenzene	0.38459	0.36118	0.35367	0.35642	0.34773	0.34196					
	0.32139	0.31557					AVRG		0.34781		6.34752
28 Naphthalene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
29 4-Chloroaniline	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
30 Hexachlorobutadiene	0.23044	0.21302	0.21319	0.21525	0.21116	0.21214					
	0.19866	0.19786					AVRG		0.21146		4.82681
31 4-Chloro-3-methylphenol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
32 2-Methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
33 Hexachlorocyclopentadiene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000

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Integrator : HP RTE
Method file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Last Edit : 16-Mar-2023 14:34 van

Compound	0.0500000 Level 1	0.1000000 Level 2	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	5.0000 Level 7	10.0000 Level 8	Curve	Coefficients b	m1	m2	%RSD or R^2
34 2,4,6-Trichlorophenol	*****	*****	*****	*****	*****	*****	*****	*****					
									AVRG		0.000e+000		0.000e+000
35 2,4,5-Trichlorophenol	*****	*****	*****	*****	*****	*****	*****	*****					
									AVRG		0.000e+000		0.000e+000
37 2-Chloronaphthalene	*****	*****	*****	*****	*****	*****	*****	*****					
									AVRG		0.000e+000		0.000e+000
38 2-Nitroaniline	*****	*****	*****	*****	*****	*****	*****	*****					
									AVRG		0.000e+000		0.000e+000
39 Dimethylphthalate	1.27787	1.27224	1.24048	1.29313	1.32502	1.28149	1.22328	1.18473					
									AVRG		1.26228		3.49321
40 Acenaphthylene	*****	*****	*****	*****	*****	*****	*****	*****					
									AVRG		0.000e+000		0.000e+000
41 2,6-Dinitrotoluene	*****	*****	*****	*****	*****	*****	*****	*****					
									AVRG		0.000e+000		0.000e+000

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Compound	0.0500000 Level 1	0.1000000 Level 2	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7	10.0000 Level 8									
43 3-Nitroaniline	*****	*****	*****	*****	*****	*****					
	*****	*****					AVRG		0.000e+000		0.000e+000
44 Acenaphthene	*****	*****	*****	*****	*****	*****					
	*****	*****					AVRG		0.000e+000		0.000e+000
45 2,4-Dinitrophenol	*****	*****	*****	*****	*****	*****					
	*****	*****					AVRG		0.000e+000		0.000e+000
46 Dibenzofuran	*****	*****	*****	*****	*****	*****					
	*****	*****					AVRG		0.000e+000		0.000e+000
47 4-Nitrophenol	*****	*****	*****	*****	*****	*****					
	*****	*****					AVRG		0.000e+000		0.000e+000
48 2,4-Dinitrotoluene	*****	*****	*****	*****	*****	*****					
	*****	*****					AVRG		0.000e+000		0.000e+000
49 Fluorene	*****	*****	*****	*****	*****	*****					
	*****	*****					AVRG		0.000e+000		0.000e+000

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Compound	0.0500000 Level 1	0.1000000 Level 2	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7	10.0000 Level 8									
50 Diethylphthalate	1.09879	1.17308	1.27815	1.36289	1.42716	1.41289					
	1.35423	1.35415					AVRG		1.30767		8.92477
51 4-Chlorophenyl-phenylether	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
52 4-Nitroaniline	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
53 4,6-Dinitro-2-methylphenol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
54 N-Nitrosodiphenylamine	0.45354	0.51066	0.53667	0.57168	0.58456	0.57224					
	0.54758	0.51644					AVRG		0.53667		7.99896
56 4-Bromophenyl-phenylether	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
57 Hexachlorobenzene	0.25043	0.25088	0.24115	0.24237	0.24203	0.24151					
	0.23339	0.22020					AVRG		0.24025		4.08944

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Compound	0.0500000 Level 1 / 5.0000 Level 7	0.1000000 Level 2 / 10.0000 Level 8	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
58 Pentachlorophenol	+++++ / 215193	1130 / 496304	3337	13495	33609	93572	QUAD	0.000e+000	7.54154	-1.29368	0.99963
60 Phenanthrene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
61 Anthracene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
62 Carbazole	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
63 Di-n-butylphthalate	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
64 Fluoranthene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
65 Pyrene	+++++ / +++++	+++++ / +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000

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Compound	0.0500000 Level 1	0.1000000 Level 2	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7	10.0000 Level 8									
67 Butylbenzylphthalate	1336	3284	7787	24470	56297	133147					
	271734	722761					QUAD	0.000e+000	1.90264	-0.15728	0.99983
68 Benzo(a)anthracene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
70 3,3'-Dichlorobenzidine	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
71 Chrysene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
72 bis(2-Ethylhexyl)phthalate	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
73 Di-n-octylphthalate	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
74 Benzo(b)fluoranthene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000

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Compound	0.0500000 Level 1	0.1000000 Level 2	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7	10.0000 Level 8									
75 Benzo(k)fluoranthene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
76 Benzo(a)pyrene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
78 Indeno(1,2,3-cd)pyrene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
79 Dibenzo(a,h)anthracene	4785	11218	24266	72052	155363	368157					
	751404	1559411					QUAD	0.000e+000	0.76135	0.01405	0.99989
80 Benzo(g,h,i)perylene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
90 N-Nitrosodimethylamine	0.74719	0.78006	0.77776	0.82263	0.80430	0.80649					
	0.73835	0.67774					AVRG		0.76932		6.11057
91 Aniline	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000

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Compound	0.0500000 Level 1	0.1000000 Level 2	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7	10.0000 Level 8									
92 1,2-Diphenylhydrazine	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
93 Benzidine	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
96 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
97 Caffeine	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
98 Retene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
99 Perylene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
100 3-beta-Coprostanol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000

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Compound	0.0500000 Level 1	0.1000000 Level 2	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7	10.0000 Level 8									
101 Cholesterol	#####	#####	#####	#####	#####	#####					
	#####	#####					AVRG		0.000e+000		0.000e+000
102 beta-Sitosterol	#####	#####	#####	#####	#####	#####					
	#####	#####					AVRG		0.000e+000		0.000e+000
103 Pyridine	#####	#####	#####	#####	#####	#####					
	#####	#####					AVRG		0.000e+000		0.000e+000
$ 1 2-Fluorophenol	1.09685	1.18250	1.19845	1.27871	1.28736	1.29411					
	1.20452	1.16136					AVRG		1.21298		5.72847
$ 145 d8-1,4-Dioxane	#####	#####	#####	#####	#####	#####					
	#####	#####					AVRG		0.000e+000		0.000e+000
$ 2 Phenol-d5	#####	#####	#####	#####	#####	#####					
	#####	#####					AVRG		0.000e+000		0.000e+000
$ 5 2-Chlorophenol-d4	#####	#####	#####	#####	#####	#####					
	#####	#####					AVRG		0.000e+000		0.000e+000

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Compound	0.0500000 Level 1	0.1000000 Level 2	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	5.0000 Level 7	10.0000 Level 8	Curve	Coefficients b	m1	m2	%RSD or R^2
$ 10 1,2-Dichlorobenzene-d4	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
$ 18 Nitrobenzene-d5	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
$ 36 2-Fluorobiphenyl	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
$ 55 2,4,6-Tribromophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
$ 66 Terphenyl-d14	0.63632	0.60853	0.61745	0.64847	0.65066	0.69381	0.68370	0.67499	AVRG		0.65174		4.72002
$ 85 p-Cresol-d4	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
$ 86 Anthracene-d10	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000

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Compound	0.0500000 Level 1	0.1000000 Level 2	0.2000000 Level 3	0.5000000 Level 4	1.0000 Level 5	2.5000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	5.0000 Level 7	10.0000 Level 8									
$ 87 Fluoranthene-d10	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
$ 88 Dibenz(a,h)anthracene-d14	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
$ 89 Diphenyl-d10	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000
$ 95 D10-1-methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+000		0.000e+000

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

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Batch File: \\target\share\chem3\nt10.i\20230315.b\20230315.b
Inst ID: nt10.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08
FILENAME:	NT10031503S	NT10031504S	NT10031505S	NT10031506S	NT10031507S	NT10031508S	NT10031509S	NT10031510S
INJ.DATE:	15-MAR-2023	15-MAR-2023	15-MAR-2023	15-MAR-2023	15-MAR-2023	16-MAR-2023	16-MAR-2023	16-MAR-2023
INJ.TIME:	21:12	21:50	22:28	23:06	23:44	00:22	01:00	01:38

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08	EXPEC RT	RT WINDOW	AVG RT	STD DEV
$ 1 2-Fluorophenol	7.073	7.073	7.066	7.073	7.073	7.073	7.073	7.073	7.073	6.573-7.573	7.072	0.003
138 Chlorobenzilate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	33.580	33.080-34.080	+++++	+++++
139 Isodrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	30.873	30.373-31.373	+++++	+++++
140 Diallate A	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	31.300	30.800-31.800	+++++	+++++
141 Diallate B	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	31.300	30.800-31.800	+++++	+++++
142 1,2-Dibromo-3-Chloropr	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	15.496	14.996-15.996	+++++	+++++
135 2,3,5,6-Tetrachlorophe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	20.428	19.928-20.928	+++++	+++++
136 2,3,4,5-tetrachlorophe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	20.471	19.971-20.971	+++++	+++++
137 NewCpnd_131	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.828	7.328-8.328	+++++	+++++
* 134 Di-n-octylphthalate-d4	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	23.768	23.268-24.268	+++++	+++++
133 Butylatedhydroxytoluen	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.190	13.690-14.690	+++++	+++++
132 3,6-Dimethylphenanthre	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	31.262	30.762-31.762	+++++	+++++
131 1-Methylphenanthrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	29.954	29.454-30.454	+++++	+++++
146 Benzo(j)fluoranthene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	23.752	23.252-24.252	+++++	+++++
130 Dibenzothiophene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	27.717	27.217-28.217	+++++	+++++
129 1-Methylfluorene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	20.566	20.066-21.066	+++++	+++++
128 N-Hexadecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	19.796	19.296-20.296	+++++	+++++

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

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Batch File: \\target\share\chem3\nt10.i\20230315.b\20230315.b
Inst ID: nt10.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08	EXPEC RT	RT WINDOW	AVG RT	STD DEV
127 2-Isopropylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	23.349	22.849-23.849	+++++	+++++
126 N-Tetradecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	22.474	21.974-22.974	+++++	+++++
144 alpha-Terpineol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.191	10.691-11.691	+++++	+++++
125 Safrole	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.779	17.279-18.279	+++++	+++++
124 3,4-Dimethylphenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.310	15.810-16.810	+++++	+++++
123 Acetophenone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.707	17.207-18.207	+++++	+++++
122 Furfuraldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.921	8.421-9.421	+++++	+++++
143 1,4-Dioxane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	3.736	3.236-4.236	+++++	+++++
$ 145 d8-1,4-Dioxane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	2.914	2.414-3.414	+++++	+++++
121 Quinoline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	20.148	19.648-20.648	+++++	+++++
120 2,3,4,6-Tetrachlorophe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	15.588	15.088-16.088	+++++	+++++
119 7,12-Dimethylbenz(a)an	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	38.587	38.087-39.087	+++++	+++++
118 Triphenyl Phosphate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	20.382	19.882-20.882	+++++	+++++
117 Butyl Diphenyl Phospha	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	18.734	18.234-19.234	+++++	+++++
116 Dibutyl Phenyl Phospha	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.987	16.487-17.487	+++++	+++++
115 Tributyl Phosphate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	15.204	14.704-15.704	+++++	+++++
114 Beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.540	14.040-15.040	+++++	+++++
113 Diphenyl Oxide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	21.586	21.086-22.086	+++++	+++++
112 Biphenyl	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.692	17.192-18.192	+++++	+++++
111 Azobenzene (1,2-DP-Hyd	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.268	15.768-16.768	+++++	+++++
110 Tetrachloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	18.055	17.555-18.555	+++++	+++++
109 3,4,5-Trichloroguaiaco	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.228	16.728-17.728	+++++	+++++

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Batch File: \\target\share\chem3\nt10.i\20230315.b\20230315.b
Inst ID: nt10.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08	EXPEC RT	RT WINDOW	AVG RT	STD DEV
108	4,5,6-Trichloroguaiaco	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.517	16.017-17.017	+++++	+++++
107	4,5-Dichloro-2-Methoxy	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.803	14.303-15.303	+++++	+++++
106	Guaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.843	11.343-12.343	+++++	+++++
105	1-methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	12.927	12.427-13.427	+++++	+++++
$ 2	Phenol-d5	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.235	7.735-8.735	+++++	+++++
3	Phenol	8.664	8.665	8.657	8.657	8.657	8.657	8.657	8.665	8.665	8.165-9.165	8.660	0.004
4	Bis(2-Chloroethyl)ethe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.397	7.897-8.897	+++++	+++++
$ 5	2-Chlorophenol-d4	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.490	7.990-8.990	+++++	+++++
6	2-Chlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.521	8.021-9.021	+++++	+++++
7	1,3-Dichlorobenzene	9.236	9.237	9.237	9.237	9.237	9.237	9.237	9.237	9.237	8.737-9.737	9.237	0.000
* 8	1,4-Dichlorobenzene-d4	9.306	9.299	9.299	9.299	9.299	9.299	9.299	9.299	9.299	8.799-9.799	9.300	0.003
9	1,4-Dichlorobenzene	9.330	9.330	9.330	9.330	9.330	9.330	9.330	9.330	9.330	8.830-9.830	9.330	0.000
$ 10	1,2-Dichlorobenzene-d4	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.230	8.730-9.730	+++++	+++++
11	Benzyl alcohol	9.562	9.563	9.563	9.563	9.563	9.563	9.563	9.570	9.570	9.070-10.070	9.564	0.003
12	1,2-Dichlorobenzene	9.687	9.687	9.687	9.687	9.687	9.687	9.687	9.687	9.687	9.187-10.187	9.687	0.000
13	2-Methylphenol	9.780	9.772	9.772	9.772	9.772	9.772	9.772	9.772	9.772	9.272-10.272	9.773	0.003
14	2,2'-oxybis(1-Chloropr	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.413	8.913-9.913	+++++	+++++
15	4-Methylphenol	10.044	10.036	10.036	10.036	10.036	10.036	10.036	10.036	10.036	9.536-10.536	10.037	0.003
16	N-Nitroso-di-n-propyla	10.121	10.114	10.114	10.114	10.114	10.114	10.114	10.114	10.114	9.614-10.614	10.115	0.003
17	Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.809	9.309-10.309	+++++	+++++
$ 18	Nitrobenzene-d5	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.917	9.417-10.417	+++++	+++++
19	Nitrobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.948	9.448-10.448	+++++	+++++
20	Isophorone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	10.399	9.899-10.899	+++++	+++++
21	2-Nitrophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	10.575	10.075-11.075	+++++	+++++

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

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Inst ID: nt10.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	22 2,4-Dimethylphenol	11.086	11.086	11.079	11.078	11.086	11.079	11.086	11.087	11.087	10.587-11.587	11.083	0.004
	23 Bis(2-Chloroethoxy)met	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	10.830	10.330-11.330	+++++	+++++
	24 Benzoic acid	11.332	11.273	11.223	11.188	11.171	11.189	+++++	+++++	11.189	10.689-11.689	11.229	0.062
	25 2,4-Dichlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.033	10.533-11.533	+++++	+++++
	26 1,2,4-Trichlorobenzene	11.689	11.690	11.691	11.689	11.690	11.691	11.690	11.690	11.690	11.190-12.190	11.690	0.001
*	27 Naphthalene-d8	11.782	11.775	11.775	11.774	11.775	11.775	11.775	11.775	11.775	11.275-12.275	11.776	0.003
	28 Naphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.326	10.826-11.826	+++++	+++++
	29 4-Chloroaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.457	10.957-11.957	+++++	+++++
	30 Hexachlorobutadiene	12.176	12.169	12.169	12.176	12.176	12.169	12.176	12.169	12.169	11.669-12.669	12.173	0.004
	31 4-Chloro-3-methylpheno	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	12.432	11.932-12.932	+++++	+++++
	32 2-Methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	12.710	12.210-13.210	+++++	+++++
	33 Hexachlorocyclopentadi	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	13.182	12.682-13.682	+++++	+++++
	34 2,4,6-Trichlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	13.330	12.830-13.830	+++++	+++++
	35 2,4,5-Trichlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	13.415	12.915-13.915	+++++	+++++
$	36 2-Fluorobiphenyl	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	13.484	12.984-13.984	+++++	+++++
	37 2-Chloronaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	13.686	13.186-14.186	+++++	+++++
	38 2-Nitroaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	13.941	13.441-14.441	+++++	+++++
	39 Dimethylphthalate	14.885	14.877	14.878	14.877	14.877	14.878	14.877	14.878	14.878	14.378-15.378	14.878	0.003
	40 Acenaphthylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.545	14.045-15.045	+++++	+++++
	41 2,6-Dinitrotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.506	14.006-15.006	+++++	+++++
*	42 Acenaphthene-d10	15.388	15.380	15.381	15.388	15.388	15.381	15.388	15.381	15.381	14.881-15.881	15.384	0.004
	43 3-Nitroaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.785	14.285-15.285	+++++	+++++
	44 Acenaphthene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.924	14.424-15.424	+++++	+++++

ARI Labs, Inc.
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Inst ID: nt10.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	45 2,4-Dinitrophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	15.001	14.501-15.501	+++++	+++++
	46 Dibenzofuran	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	15.248	14.748-15.748	+++++	+++++
	47 4-Nitrophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	15.171	14.671-15.671	+++++	+++++
	48 2,4-Dinitrotoluene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	15.302	14.802-15.802	+++++	+++++
	49 Fluorene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	15.952	15.452-16.452	+++++	+++++
	50 Diethylphthalate	16.339	16.331	16.332	16.331	16.331	16.324	16.331	16.324	16.324	15.824-16.824	16.330	0.005
	51 4-Chlorophenyl-phenyle	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	15.952	15.452-16.452	+++++	+++++
	52 4-Nitroaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.037	15.537-16.537	+++++	+++++
	53 4,6-Dinitro-2-methylph	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.145	15.645-16.645	+++++	+++++
	54 N-Nitrosodiphenylamine	16.724	16.717	16.718	16.724	16.717	16.718	16.717	16.718	16.718	16.218-17.218	16.719	0.003
$	55 2,4,6-Tribromophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.477	15.977-16.977	+++++	+++++
	56 4-Bromophenyl-phenylet	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.939	16.439-17.439	+++++	+++++
	57 Hexachlorobenzene	17.797	17.797	17.798	17.797	17.797	17.790	17.797	17.798	17.798	17.298-18.298	17.797	0.003
	58 Pentachlorophenol	18.153	18.146	18.154	18.153	18.154	18.154	18.154	18.154	18.154	17.654-18.654	18.153	0.003
*	59 Phenanthrene-d10	18.424	18.417	18.425	18.424	18.424	18.418	18.424	18.417	18.417	17.917-18.917	18.422	0.004
	60 Phenanthrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.899	17.399-18.399	+++++	+++++
	61 Anthracene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.991	17.491-18.491	+++++	+++++
	62 Carbazole	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	18.324	17.824-18.824	+++++	+++++
	63 Di-n-butylphthalate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	19.152	18.652-19.652	+++++	+++++
	64 Fluoranthene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	20.289	19.789-20.789	+++++	+++++
	65 Pyrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	20.715	20.215-21.215	+++++	+++++
$	66 Terphenyl-d14	21.542	21.542	21.543	21.542	21.542	21.543	21.542	21.543	21.543	21.043-22.043	21.543	0.000
	67 Butylbenzylphthalate	22.464	22.456	22.465	22.464	22.464	22.465	22.464	22.465	22.465	21.965-22.965	22.463	0.003
	68 Benzo(a)anthracene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	22.875	22.375-23.375	+++++	+++++

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Inst ID: nt10.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08	EXPEC RT	RT WINDOW	AVG RT	STD DEV
*	69 Chrysene-d12	23.455	23.455	23.456	23.455	23.455	23.456	23.455	23.456	23.456	22.956-23.956	23.455	0.000
	70 3,3'-Dichlorobenzidine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	22.844	22.344-23.344	+++++	+++++
	71 Chrysene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	22.952	22.452-23.452	+++++	+++++
	72 bis(2-Ethylhexyl)phtha	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	23.007	22.507-23.507	+++++	+++++
	73 Di-n-octylphthalate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	23.990	23.490-24.490	+++++	+++++
	74 Benzo(b)fluoranthene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	24.687	24.187-25.187	+++++	+++++
	75 Benzo(k)fluoranthene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	24.725	24.225-25.225	+++++	+++++
	76 Benzo(a)pyrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	25.283	24.783-25.783	+++++	+++++
*	77 Perylene-d12	26.188	26.188	26.189	26.188	26.188	26.181	26.188	26.189	26.189	25.689-26.689	26.187	0.003
	78 Indeno(1,2,3-cd)pyrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	27.794	27.294-28.294	+++++	+++++
	79 Dibenzo(a,h)anthracene	29.033	29.018	29.019	29.010	29.010	29.003	29.010	29.019	29.019	28.519-29.519	29.015	0.009
	80 Benzo(g,h,i)perylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	28.494	27.994-28.994	+++++	+++++
$	85 p-Cresol-d4	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.238	16.738-17.738	+++++	+++++
$	86 Anthracene-d10	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	29.316	28.816-29.816	+++++	+++++
$	87 Fluoranthene-d10	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	26.007	25.507-26.507	+++++	+++++
$	88 Dibenz(a,h)anthracene-	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	44.609	44.109-45.109	+++++	+++++
$	89 Diphenyl-d10	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.085	15.585-16.585	+++++	+++++
	90 N-Nitrosodimethylamine	4.941	4.933	4.926	4.941	4.941	4.941	4.941	4.949	4.949	4.449-5.449	4.939	0.007
	91 Aniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.305	7.805-8.805	+++++	+++++
	92 1,2-Diphenylhydrazine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	21.615	21.115-22.115	+++++	+++++
	93 Benzidine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	20.529	20.029-21.029	+++++	+++++
$	95 D10-1-methylnaphthalen	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.686	17.186-18.186	+++++	+++++
	96 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.540	14.040-15.040	+++++	+++++
	97 Caffeine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	26.957	26.457-27.457	+++++	+++++

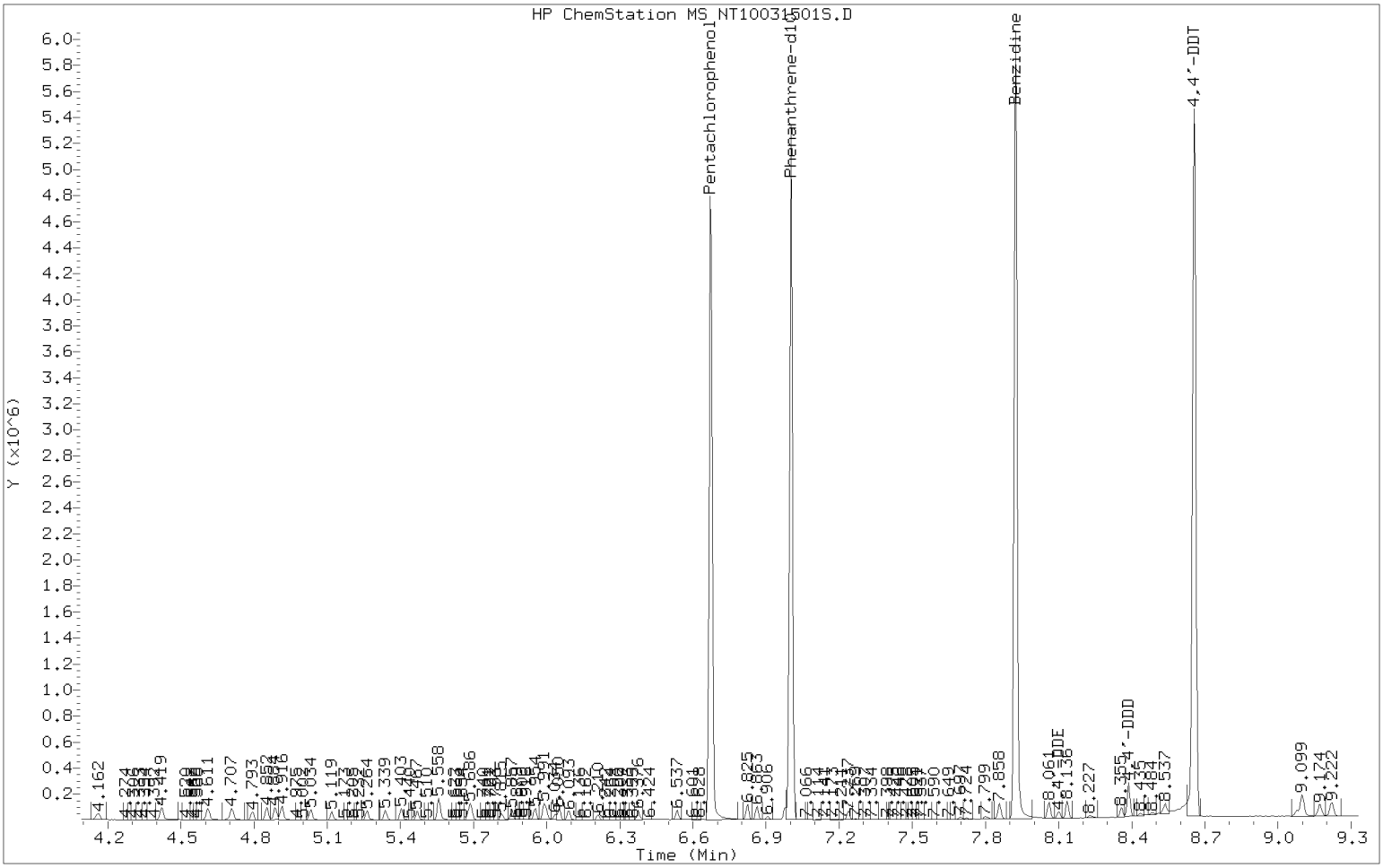
ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

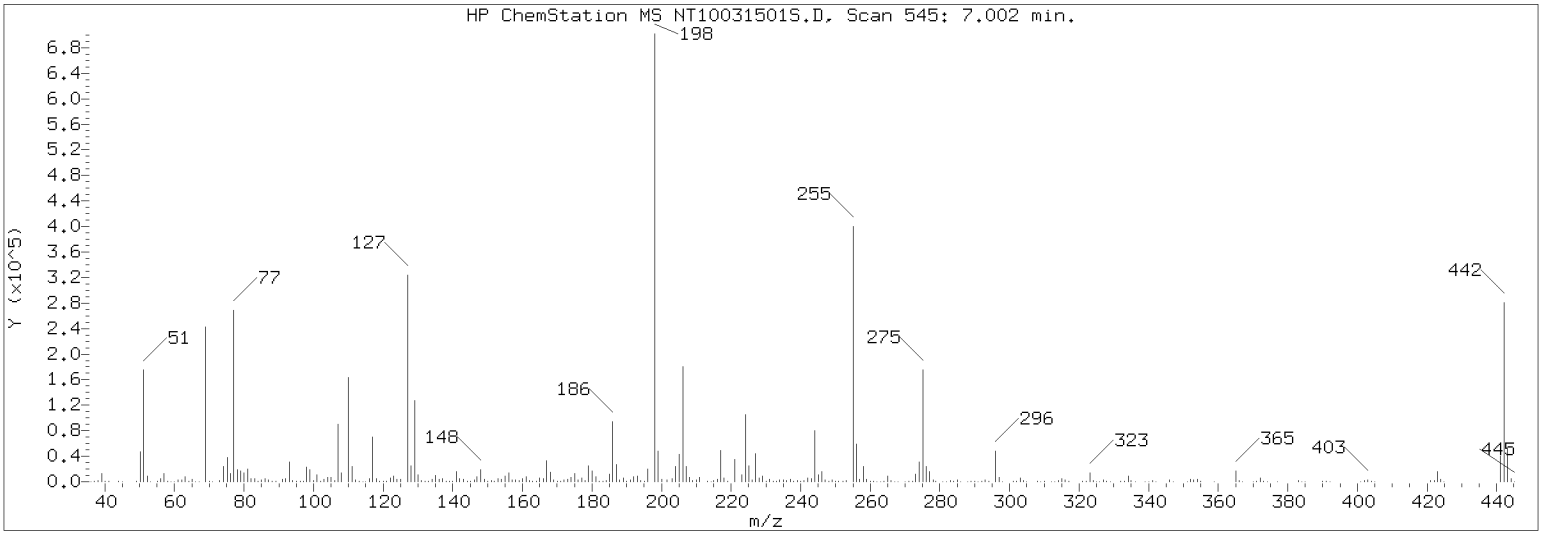
Method File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Batch File: \\target\share\chem3\nt10.i\20230315.b\20230315.b
Inst ID: nt10.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	RT08	EXPEC RT	RT WINDOW	AVG RT	STD DEV
98 Retene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	19.609	19.109-20.109	+++++	+++++
99 Perylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	25.438	24.938-25.938	+++++	+++++
100 3-beta-Coprostanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	26.384	25.884-26.884	+++++	+++++
101 Cholesterol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	43.881	43.381-44.381	+++++	+++++
102 beta-Sitosterol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	45.573	45.073-46.073	+++++	+++++
103 Pyridine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.535	4.035-5.035	+++++	+++++

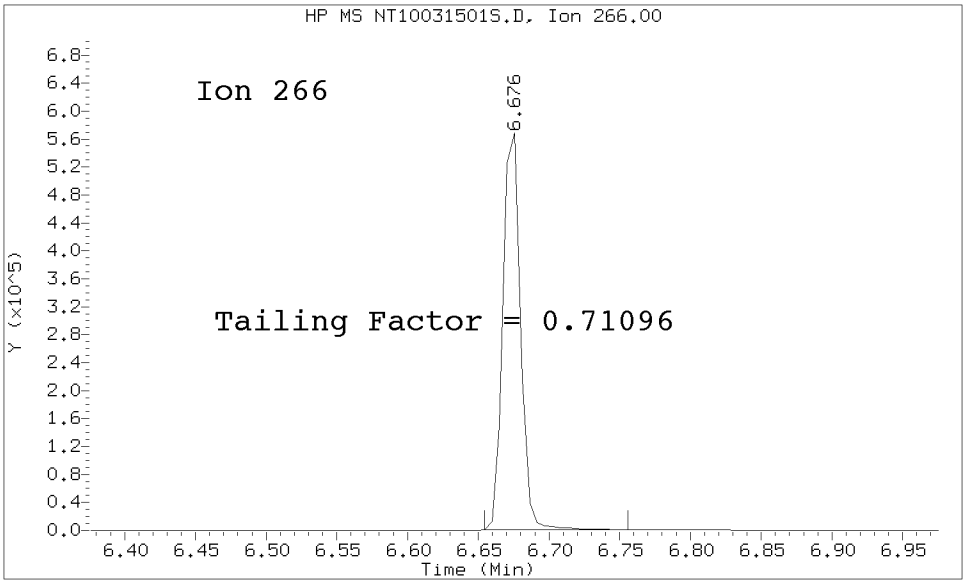
DFTPP TAILING FACTOR AND BREAKDOWN GRAPHIC REPORT

Datafile Analyzed: /20230315.b/20230315.b/NT10031501S.D/NT10031501S.D
Method Used: \20230315.b\20230315.b\DFTPP8270E.m Inst: nt10
Injection Date: 15-MAR-2023 20:19 Operator: JGR
Sample Info: SLC0238-TUN1 SLC0238-TUN1
Report Date: 03/16/2023 14:49



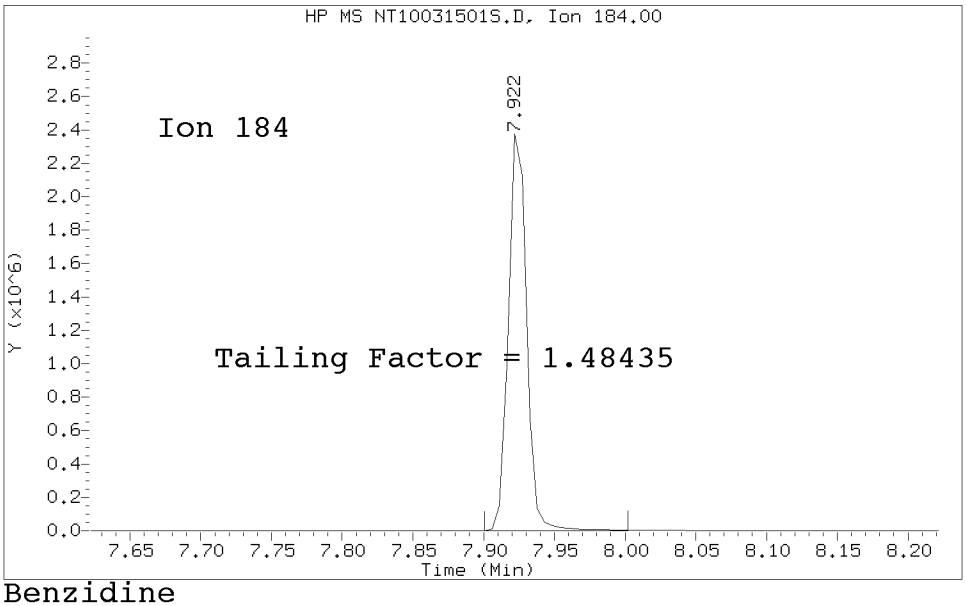


Datafile Analyzed: /20230315.b/20230315.b/NT10031501S.D/NT10031501S.D
Method Used: \20230315.b\20230315.b\DFTPP8270E.m\sw846ddt.m Inst: nt10
Injection Date: 15-MAR-2023 20:19 Operator: JGR
Sample Info: SEQ-TUN1
Report Date: 03/16/2023 14:49



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

Tail Factor = 0.711 Maximum Allowed = 2.0



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

Tail Factor = 1.484 Maximum Allowed = 2.0

8270 TAILING FACTOR/BREAKDOWN SUMMARY RESULTS

TAILING ANALYSIS SUMMARY

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

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

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

Tuning Sample, nt10.i/20230315.b/20230315.b/NT10031501S.D, *** PASSED ***

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

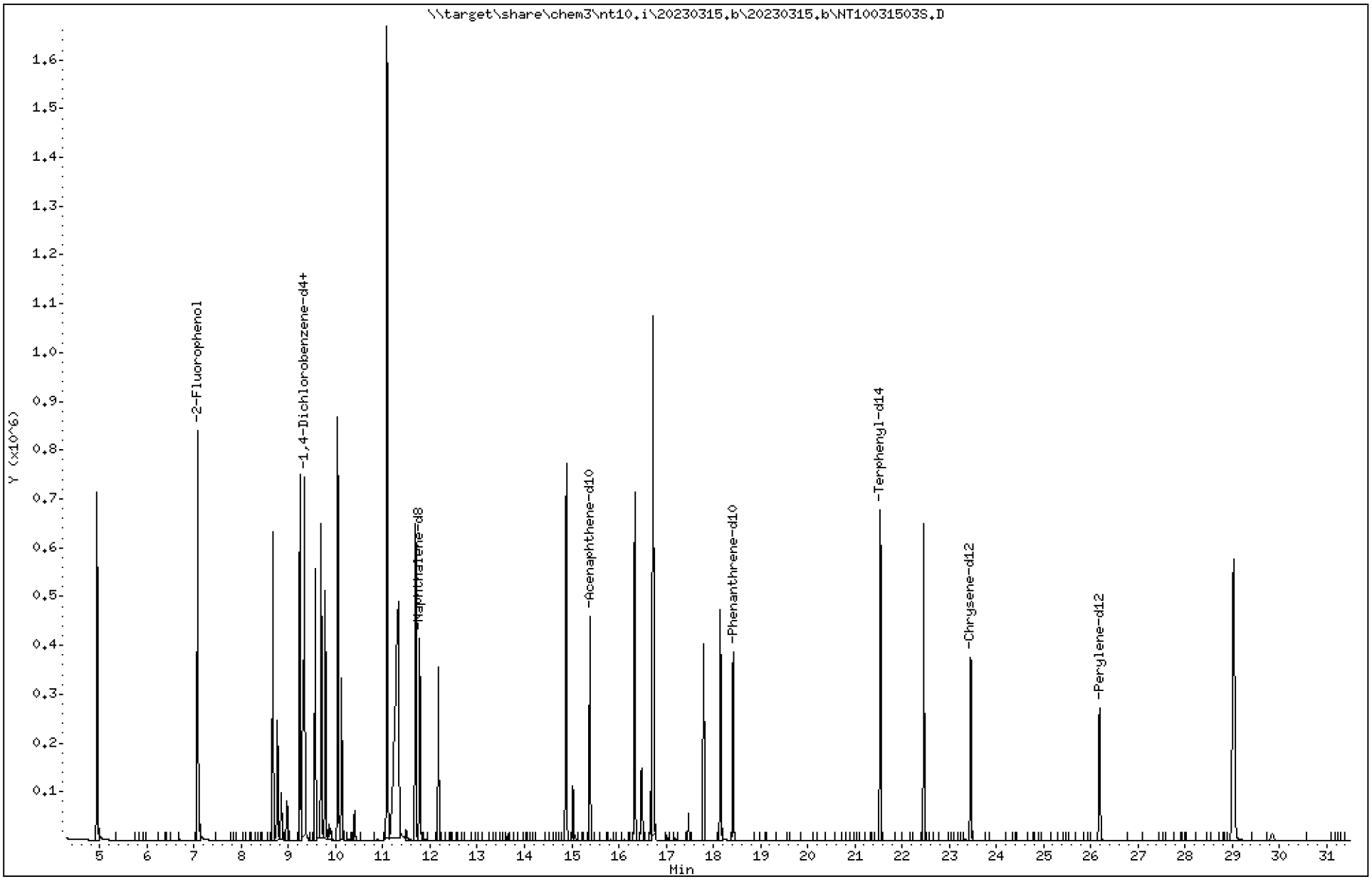
Data File: NT10031501S.D
Spectrum: Avg. Scans 544-546 (7.00), Background Scan 536
Location of Maximum: 198.00
Number of points: 316

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

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

Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031503S.D
Date : 15-MAR-2023 21:12
Client ID:
Sample Info: SLC0238-CAL8
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt10.i
Operator: JGR
Column diameter: 0.25



ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031503S.D
Lab Smp Id: SLC0238-CAL8
Inj Date : 15-MAR-2023 21:12 MS Autotune Date: 16-JAN-2023 17:42
Operator : JGR Inst ID: nt10.i
Smp Info : SLC0238-CAL8
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Meth Date : 16-Mar-2023 14:39 van Quant Type: ISTD
Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D
Als bottle: 3 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
$ 1	2-Fluorophenol	112	7.072	7.073	(0.760)	838030	15.0000	14.36
3	Phenol	94	8.664	8.664	(0.931)	729755	10.0000	9.116
7	1,3-Dichlorobenzene	146	9.236	9.236	(0.992)	665810	10.0000	8.888
* 8	1,4-Dichlorobenzene-d4	152	9.306	9.298	(1.000)	192425	4.00000	
9	1,4-Dichlorobenzene	146	9.329	9.329	(1.002)	654897	10.0000	9.056
11	Benzyl alcohol	79	9.562	9.570	(1.028)	491495	10.0000	10.59
12	1,2-Dichlorobenzene	146	9.686	9.686	(1.041)	638455	10.0000	8.978
13	2-Methylphenol	108	9.779	9.772	(1.051)	553708	10.0000	9.982
15	4-Methylphenol	108	10.043	10.036	(1.079)	586952	10.0000	10.18
16	N-Nitroso-di-n-propylamine	70	10.121	10.113	(1.088)	409406	10.0000	10.04
22	2,4-Dimethylphenol	107	11.085	11.087	(0.941)	1130269	20.0000	18.95
24	Benzoic acid	105	11.332	11.189	(0.962)	1607035	40.0000	39.86
26	1,2,4-Trichlorobenzene	180	11.689	11.690	(0.992)	544255	10.0000	9.073
* 27	Naphthalene-d8	136	11.781	11.775	(1.000)	689875	4.00000	
30	Hexachlorobutadiene	225	12.175	12.169	(1.033)	341241	10.0000	9.357
39	Dimethylphthalate	163	14.884	14.877	(0.967)	1011946	10.0000	9.386
* 42	Acenaphthene-d10	162	15.387	15.380	(1.000)	341663	4.00000	
50	Diethylphthalate	149	16.338	16.324	(1.062)	1156658	10.0000	10.36
54	N-Nitrosodiphenylamine	169	16.724	16.717	(0.908)	841708	10.0000	9.623
57	Hexachlorobenzene	284	17.797	17.798	(0.966)	358890	10.0000	9.166

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	58 Pentachlorophenol	266	18.153	18.154	(0.985)	496304	20.0000	19.97
*	59 Phenanthrene-d10	188	18.424	18.417	(1.000)	651934	4.00000	
$	66 Terphenyl-d14	244	21.542	21.543	(0.918)	813450	10.0000	10.36
	67 Butylbenzylphthalate	149	22.463	22.465	(0.958)	722761	10.0000	9.997
*	69 Chrysene-d12	240	23.454	23.455	(1.000)	482051	4.00000	
*	77 Perylene-d12	264	26.187	26.188	(1.000)	502718	4.00000	
	79 Dibenzo(a,h)anthracene	278	29.033	29.019	(1.109)	1559411	10.0000	9.987
	90 N-Nitrosodimethylamine	74	4.940	4.948	(0.531)	652075	20.0000	17.62

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT10031503S.D
Lab Smp Id: SLC0238-CAL8
Analysis Type: SV
Quant Type: ISTD
Operator: JGR
Method File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Misc Info:

Calibration Date: 15-MAR-2023
Calibration Time: 23:06
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	188081	94041	376162	192425	2.31
27 Naphthalene-d8	674549	337275	1349098	689875	2.27
42 Acenaphthene-d10	328275	164138	656550	341663	4.08
59 Phenanthrene-d10	597140	298570	1194280	651934	9.18
69 Chrysene-d12	466503	233252	933006	482051	3.33
77 Perylene-d12	518203	259102	1036406	502718	-2.99

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.30	8.80	9.80	9.31	0.08
27 Naphthalene-d8	11.77	11.27	12.27	11.78	0.06
42 Acenaphthene-d10	15.39	14.89	15.89	15.39	-0.00
59 Phenanthrene-d10	18.42	17.92	18.92	18.42	-0.00
69 Chrysene-d12	23.45	22.95	23.95	23.45	-0.00
77 Perylene-d12	26.19	25.69	26.69	26.19	-0.00

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

REVIEW SUMMARY FOR FILE - NT10031503S.D

Lab ID: SLC0238-CAL8
nt10.i, 20230315.b\20230315.b\SIMABN2.m,   15-MAR-2023 21:12

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.962	0.000	0.9618	Benzoic acid

RRT check based on Ccal File: 20230315.b/NT10031510S.D

On Column LOD for nt10.i, 20230315.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

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

Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031504S.D

Date : 15-MAR-2023 21:50

Client ID:

Instrument: nt10.i

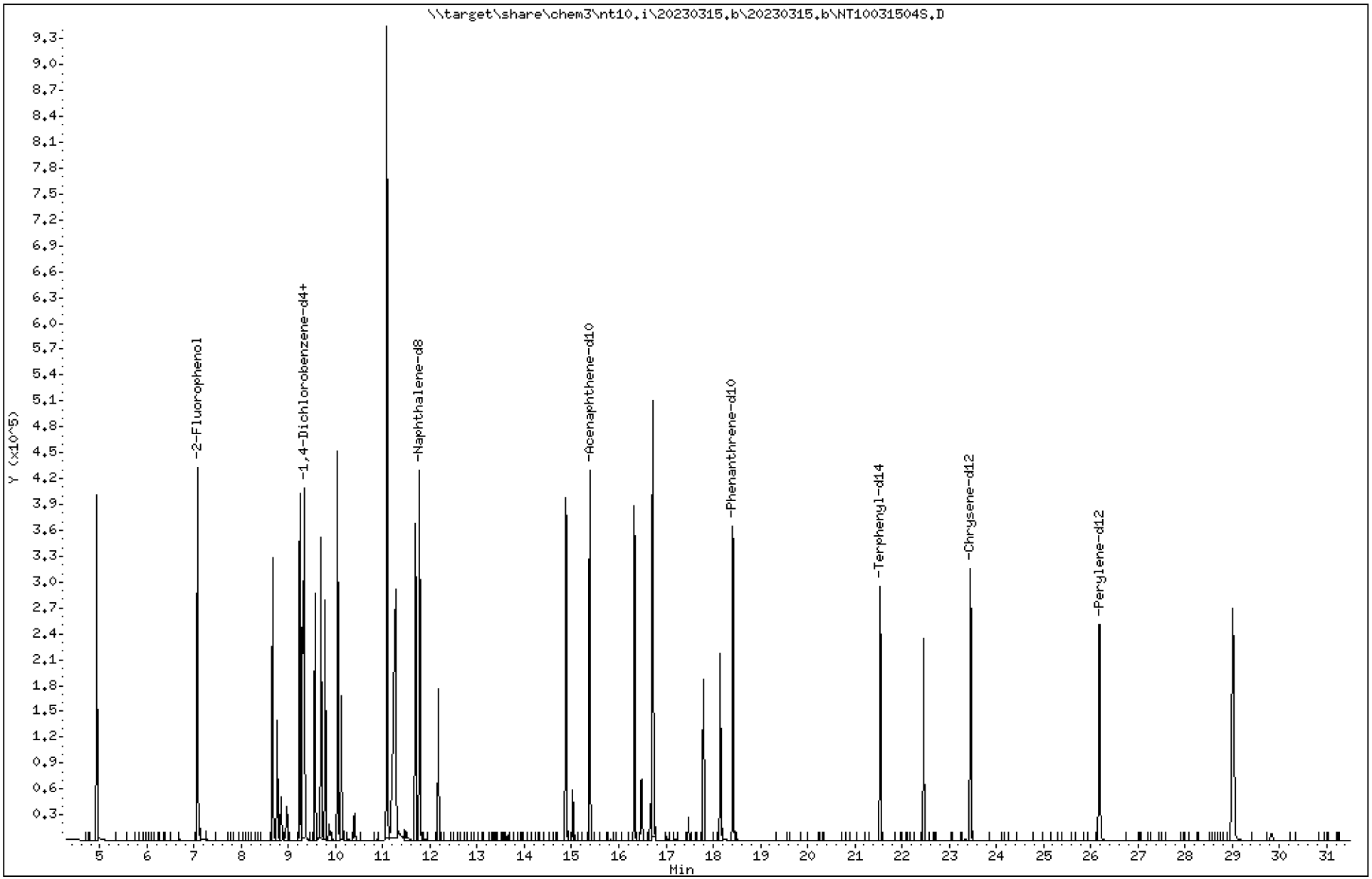
Sample Info: SLC0238-CAL7

Volume Injected (uL): 1.0

Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25



ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031504S.D
Lab Smp Id: SLC0238-CAL7
Inj Date : 15-MAR-2023 21:50 MS Autotune Date: 16-JAN-2023 17:42
Operator : JGR Inst ID: nt10.i
Smp Info : SLC0238-CAL7
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Meth Date : 16-Mar-2023 14:39 van Quant Type: ISTD
Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D
Als bottle: 4 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
$	1 2-Fluorophenol	112	7.073	7.073	(0.761)	423280	7.50000	7.448
	3 Phenol	94	8.664	8.664	(0.932)	380220	5.00000	4.876
	7 1,3-Dichlorobenzene	146	9.236	9.236	(0.993)	338879	5.00000	4.645
*	8 1,4-Dichlorobenzene-d4	152	9.298	9.298	(1.000)	187419	4.00000	
	9 1,4-Dichlorobenzene	146	9.329	9.329	(1.003)	329824	5.00000	4.683
	11 Benzyl alcohol	79	9.562	9.570	(1.028)	252707	5.00000	5.590
	12 1,2-Dichlorobenzene	146	9.686	9.686	(1.042)	322928	5.00000	4.662
	13 2-Methylphenol	108	9.772	9.772	(1.051)	278276	5.00000	5.151
	15 4-Methylphenol	108	10.036	10.036	(1.079)	298436	5.00000	5.316
	16 N-Nitroso-di-n-propylamine	70	10.113	10.113	(1.088)	209335	5.00000	5.272
	22 2,4-Dimethylphenol	107	11.086	11.087	(0.942)	583450	10.0000	9.891
	24 Benzoic acid	105	11.272	11.189	(0.957)	736328	20.0000	20.81
	26 1,2,4-Trichlorobenzene	180	11.689	11.690	(0.993)	274164	5.00000	4.620
*	27 Naphthalene-d8	136	11.774	11.775	(1.000)	682446	4.00000	
	30 Hexachlorobutadiene	225	12.168	12.169	(1.033)	169468	5.00000	4.697
	39 Dimethylphthalate	163	14.877	14.877	(0.967)	507054	5.00000	4.846
*	42 Acenaphthene-d10	162	15.380	15.380	(1.000)	331603	4.00000	
	50 Diethylphthalate	149	16.331	16.324	(1.062)	561334	5.00000	5.178
	54 N-Nitrosodiphenylamine	169	16.716	16.717	(0.908)	409745	5.00000	5.102
	57 Hexachlorobenzene	284	17.797	17.798	(0.966)	174645	5.00000	4.857

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
58	Pentachlorophenol	266	18.145	18.154	(0.985)	215193	10.0000	10.18
* 59	Phenanthrene-d10	188	18.416	18.417	(1.000)	598629	4.00000	
$ 66	Terphenyl-d14	244	21.542	21.543	(0.918)	332738	5.00000	5.245
67	Butylbenzylphthalate	149	22.456	22.465	(0.957)	271734	5.00000	5.005
* 69	Chrysene-d12	240	23.454	23.455	(1.000)	389338	4.00000	
* 77	Perylene-d12	264	26.187	26.188	(1.000)	466441	4.00000	
79	Dibenzo(a,h)anthracene	278	29.017	29.019	(1.108)	751404	5.00000	5.052
90	N-Nitrosodimethylamine	74	4.933	4.948	(0.531)	345951	10.0000	9.597

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT10031504S.D
Lab Smp Id: SLC0238-CAL7
Analysis Type: SV
Quant Type: ISTD
Operator: JGR
Method File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Misc Info:

Calibration Date: 15-MAR-2023
Calibration Time: 23:06
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	188081	94041	376162	187419	-0.35
27 Naphthalene-d8	674549	337275	1349098	682446	1.17
42 Acenaphthene-d10	328275	164138	656550	331603	1.01
59 Phenanthrene-d10	597140	298570	1194280	598629	0.25
69 Chrysene-d12	466503	233252	933006	389338	-16.54
77 Perylene-d12	518203	259102	1036406	466441	-9.99

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.30	8.80	9.80	9.30	0.00
27 Naphthalene-d8	11.77	11.27	12.27	11.77	0.00
42 Acenaphthene-d10	15.39	14.89	15.89	15.38	-0.05
59 Phenanthrene-d10	18.42	17.92	18.92	18.42	-0.04
69 Chrysene-d12	23.45	22.95	23.95	23.45	0.00
77 Perylene-d12	26.19	25.69	26.69	26.19	0.00

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

REVIEW SUMMARY FOR FILE - NT10031504S.D

Lab ID: SLC0238-CAL7
nt10.i, 20230315.b\20230315.b\SIMABN2.m,   15-MAR-2023 21:50

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.957	0.000	0.9574	Benzoic acid

RRT check based on Ccal File: 20230315.b/NT10031510S.D

On Column LOD for nt10.i, 20230315.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

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

Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031505S.D

Date : 15-MAR-2023 22:28

Client ID:

Instrument: nt10.i

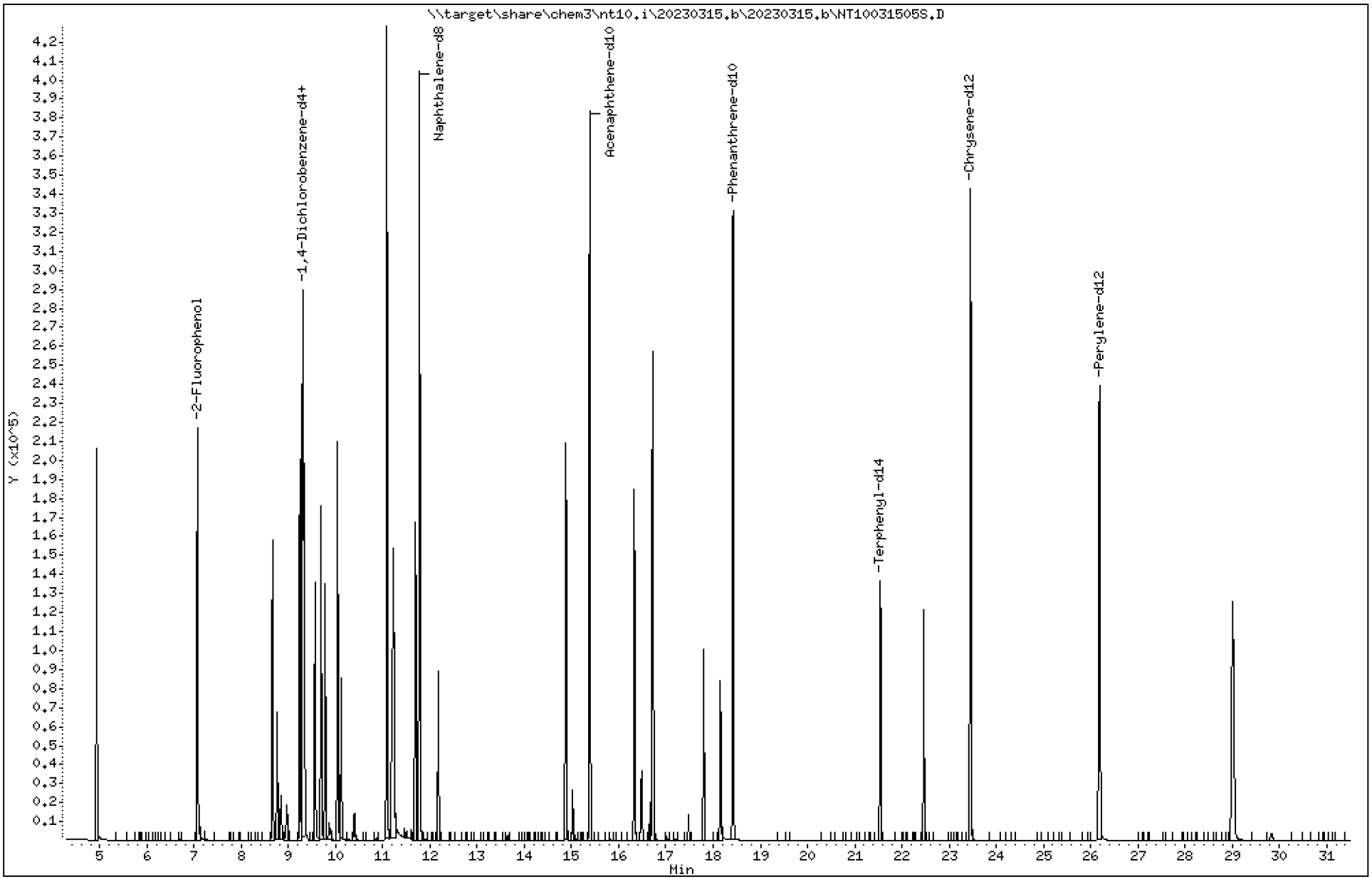
Sample Info: SLC0238-CAL6

Volume Injected (uL): 1.0

Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25



ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031505S.D
Lab Smp Id: SLC0238-CAL6
Inj Date : 15-MAR-2023 22:28 MS Autotune Date: 16-JAN-2023 17:42
Operator : JGR Inst ID: nt10.i
Smp Info : SLC0238-CAL6
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Meth Date : 16-Mar-2023 14:39 van Quant Type: ISTD
Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D
Als bottle: 5 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$ 1	2-Fluorophenol	112	7.065	7.073	(0.760)	210389	3.75000	4.001
3	Phenol	94	8.657	8.664	(0.931)	190392	2.50000	2.639
7	1,3-Dichlorobenzene	146	9.236	9.236	(0.993)	168055	2.50000	2.489
* 8	1,4-Dichlorobenzene-d4	152	9.299	9.298	(1.000)	173412	4.00000	
9	1,4-Dichlorobenzene	146	9.330	9.329	(1.003)	163092	2.50000	2.503
11	Benzyl alcohol	79	9.562	9.570	(1.028)	120208	2.50000	2.874
12	1,2-Dichlorobenzene	146	9.687	9.686	(1.042)	159585	2.50000	2.490
13	2-Methylphenol	108	9.772	9.772	(1.051)	134327	2.50000	2.687
15	4-Methylphenol	108	10.036	10.036	(1.079)	141444	2.50000	2.723
16	N-Nitroso-di-n-propylamine	70	10.114	10.113	(1.088)	100651	2.50000	2.740
22	2,4-Dimethylphenol	107	11.078	11.087	(0.941)	286604	5.00000	5.311
24	Benzoic acid	105	11.222	11.189	(0.953)	285274	10.0000	9.309
26	1,2,4-Trichlorobenzene	180	11.690	11.690	(0.993)	133425	2.50000	2.458
* 27	Naphthalene-d8	136	11.775	11.775	(1.000)	624286	4.00000	
30	Hexachlorobutadiene	225	12.169	12.169	(1.033)	82773	2.50000	2.508
39	Dimethylphthalate	163	14.878	14.877	(0.967)	248536	2.50000	2.538
* 42	Acenaphthene-d10	162	15.381	15.380	(1.000)	310309	4.00000	
50	Diethylphthalate	149	16.332	16.324	(1.062)	274020	2.50000	2.701
54	N-Nitrosodiphenylamine	169	16.717	16.717	(0.907)	198446	2.50000	2.666
57	Hexachlorobenzene	284	17.798	17.798	(0.966)	83753	2.50000	2.513

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	58 Pentachlorophenol	266	18.154	18.154	(0.985)	93572	5.00000	4.940
*	59 Phenanthrene-d10	188	18.425	18.417	(1.000)	554860	4.00000	
$	66 Terphenyl-d14	244	21.543	21.543	(0.918)	167011	2.50000	2.661
	67 Butylbenzylphthalate	149	22.464	22.465	(0.958)	133147	2.50000	2.556
*	69 Chrysene-d12	240	23.455	23.455	(1.000)	385144	4.00000	
*	77 Perylene-d12	264	26.188	26.188	(1.000)	456369	4.00000	
	79 Dibenzo(a,h)anthracene	278	29.018	29.019	(1.108)	368157	2.50000	2.493
	90 N-Nitrosodimethylamine	74	4.925	4.948	(0.530)	174819	5.00000	5.242

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT10031505S.D
Lab Smp Id: SLC0238-CAL6
Analysis Type: SV
Quant Type: ISTD
Operator: JGR
Method File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Misc Info:

Calibration Date: 15-MAR-2023
Calibration Time: 23:06
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	188081	94041	376162	173412	-7.80
27 Naphthalene-d8	674549	337275	1349098	624286	-7.45
42 Acenaphthene-d10	328275	164138	656550	310309	-5.47
59 Phenanthrene-d10	597140	298570	1194280	554860	-7.08
69 Chrysene-d12	466503	233252	933006	385144	-17.44
77 Perylene-d12	518203	259102	1036406	456369	-11.93

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.30	8.80	9.80	9.30	0.00
27 Naphthalene-d8	11.77	11.27	12.27	11.78	0.01
42 Acenaphthene-d10	15.39	14.89	15.89	15.38	-0.04
59 Phenanthrene-d10	18.42	17.92	18.92	18.43	0.01
69 Chrysene-d12	23.45	22.95	23.95	23.46	0.00
77 Perylene-d12	26.19	25.69	26.69	26.19	0.00

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

REVIEW SUMMARY FOR FILE - NT10031505S.D

Lab ID: SLC0238-CAL6
nt10.i, 20230315.b\20230315.b\SIMABN2.m,   15-MAR-2023 22:28

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.953	0.000	0.9531	Benzoic acid

RRT check based on Ccal File: 20230315.b/NT10031510S.D

On Column LOD for nt10.i, 20230315.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

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

Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031506S.D

Date : 15-MAR-2023 23:06

Client ID:

Instrument: nt10.i

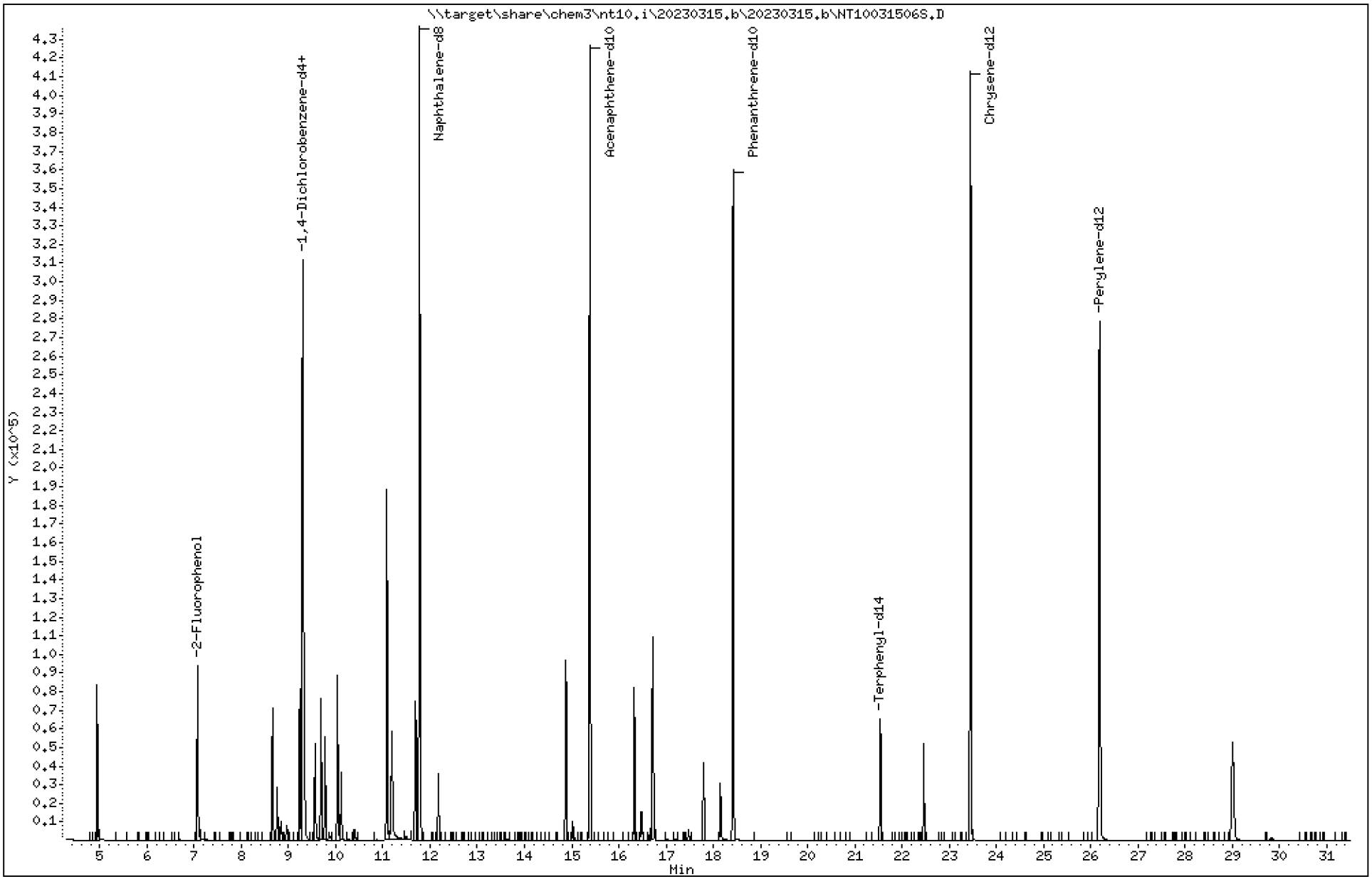
Sample Info: SLC0238-CAL5

Volume Injected (uL): 1.0

Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25



ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031506S.D
Lab Smp Id: SLC0238-CAL5
Inj Date : 15-MAR-2023 23:06 MS Autotune Date: 16-JAN-2023 17:42
Operator : JGR Inst ID: nt10.i
Smp Info : SLC0238-CAL5
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Meth Date : 16-Mar-2023 14:39 van Quant Type: ISTD
Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
$ 1	2-Fluorophenol	112	7.072	7.073	(0.761)	90798	1.50000	1.592
3	Phenol	94	8.656	8.664	(0.931)	82355	1.00000	1.052
7	1,3-Dichlorobenzene	146	9.236	9.236	(0.993)	73541	1.00000	1.004
* 8	1,4-Dichlorobenzene-d4	152	9.298	9.298	(1.000)	188081	4.00000	
9	1,4-Dichlorobenzene	146	9.329	9.329	(1.003)	71256	1.00000	1.008
11	Benzyl alcohol	79	9.562	9.570	(1.028)	48450	1.00000	1.068
12	1,2-Dichlorobenzene	146	9.686	9.686	(1.042)	70084	1.00000	1.008
13	2-Methylphenol	108	9.772	9.772	(1.051)	56161	1.00000	1.036
15	4-Methylphenol	108	10.036	10.036	(1.079)	59710	1.00000	1.060
16	N-Nitroso-di-n-propylamine	70	10.113	10.113	(1.088)	42270	1.00000	1.061
22	2,4-Dimethylphenol	107	11.077	11.087	(0.941)	125195	2.00000	2.147
24	Benzoic acid	105	11.187	11.189	(0.950)	77741	4.00000	2.416
26	1,2,4-Trichlorobenzene	180	11.689	11.690	(0.993)	58641	1.00000	0.9998
* 27	Naphthalene-d8	136	11.774	11.775	(1.000)	674549	4.00000	
30	Hexachlorobutadiene	225	12.176	12.169	(1.034)	35610	1.00000	0.9986
39	Dimethylphthalate	163	14.877	14.877	(0.967)	108743	1.00000	1.050
* 42	Acenaphthene-d10	162	15.387	15.380	(1.000)	328275	4.00000	
50	Diethylphthalate	149	16.330	16.324	(1.061)	117125	1.00000	1.091
54	N-Nitrosodiphenylamine	169	16.724	16.717	(0.908)	87266	1.00000	1.089
57	Hexachlorobenzene	284	17.797	17.798	(0.966)	36131	1.00000	1.007

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
58	Pentachlorophenol	266	18.153	18.154	(0.985)	33609	2.00000	1.681
* 59	Phenanthrene-d10	188	18.424	18.417	(1.000)	597140	4.00000	
$ 66	Terphenyl-d14	244	21.542	21.543	(0.918)	75884	1.00000	0.9983
67	Butylbenzylphthalate	149	22.463	22.465	(0.958)	56297	1.00000	0.9093
* 69	Chrysene-d12	240	23.454	23.455	(1.000)	466503	4.00000	
* 77	Perylene-d12	264	26.187	26.188	(1.000)	518203	4.00000	
79	Dibenzo(a,h)anthracene	278	29.009	29.019	(1.108)	155363	1.00000	0.9181
90	N-Nitrosodimethylamine	74	4.940	4.948	(0.531)	75637	2.00000	2.091

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT10031506S.D
Lab Smp Id: SLC0238-CAL5
Analysis Type: SV
Quant Type: ISTD
Operator: JGR
Method File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Misc Info:

Calibration Date: 15-MAR-2023
Calibration Time: 23:06
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	188081	94041	376162	188081	0.00
27 Naphthalene-d8	674549	337275	1349098	674549	0.00
42 Acenaphthene-d10	328275	164138	656550	328275	0.00
59 Phenanthrene-d10	597140	298570	1194280	597140	0.00
69 Chrysene-d12	466503	233252	933006	466503	0.00
77 Perylene-d12	518203	259102	1036406	518203	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.30	8.80	9.80	9.30	0.00
27 Naphthalene-d8	11.77	11.27	12.27	11.77	0.00
42 Acenaphthene-d10	15.39	14.89	15.89	15.39	0.00
59 Phenanthrene-d10	18.42	17.92	18.92	18.42	0.00
69 Chrysene-d12	23.45	22.95	23.95	23.45	0.00
77 Perylene-d12	26.19	25.69	26.69	26.19	0.00

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

REVIEW SUMMARY FOR FILE - NT10031506S.D

Lab ID: SLC0238-CAL5
nt10.i, 20230315.b\20230315.b\SIMABN2.m,   15-MAR-2023 23:06

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.950	0.000	0.9502	Benzoic acid

RRT check based on Ccal File: 20230315.b/NT10031510S.D

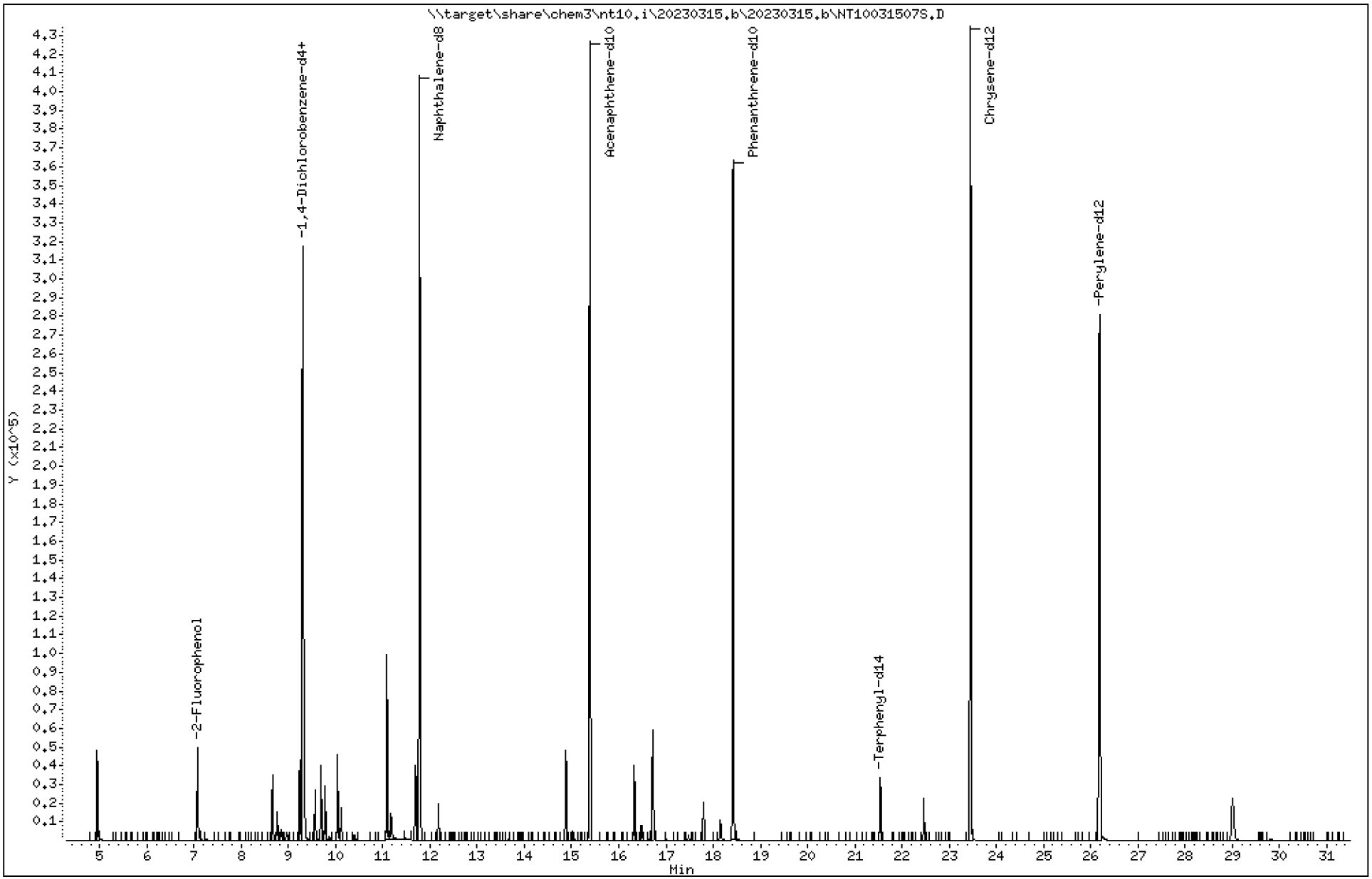
On Column LOD for nt10.i, 20230315.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

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

Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031507S.D
Date : 15-MAR-2023 23:44
Client ID:
Sample Info: SLC0238-CAL4
Volume Injected (uL): 1.0
Column phase: ZB-5msi

Instrument: nt10.i
Operator: JGR
Column diameter: 0.25



ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031507S.D
Lab Smp Id: SLC0238-CAL4
Inj Date : 15-MAR-2023 23:44 MS Autotune Date: 16-JAN-2023 17:42
Operator : JGR Inst ID: nt10.i
Smp Info : SLC0238-CAL4
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Meth Date : 16-Mar-2023 14:39 van Quant Type: ISTD
Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D
Als bottle: 7 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$ 1	2-Fluorophenol	112	7.073	7.073	(0.761)	45949	0.75000	0.7906
3	Phenol	94	8.657	8.664	(0.931)	42286	0.50000	0.5304
7	1,3-Dichlorobenzene	146	9.236	9.236	(0.993)	38003	0.50000	0.5094
* 8	1,4-Dichlorobenzene-d4	152	9.298	9.298	(1.000)	191648	4.00000	
9	1,4-Dichlorobenzene	146	9.329	9.329	(1.003)	36555	0.50000	0.5076
11	Benzyl alcohol	79	9.562	9.570	(1.028)	23988	0.50000	0.5190
12	1,2-Dichlorobenzene	146	9.686	9.686	(1.042)	36410	0.50000	0.5141
13	2-Methylphenol	108	9.772	9.772	(1.051)	28358	0.50000	0.5133
15	4-Methylphenol	108	10.036	10.036	(1.079)	29752	0.50000	0.5183
16	N-Nitroso-di-n-propylamine	70	10.113	10.113	(1.088)	21127	0.50000	0.5204
22	2,4-Dimethylphenol	107	11.086	11.087	(0.942)	63684	1.00000	1.084
24	Benzoic acid	105	11.171	11.189	(0.949)	21037	2.00000	0.6535
26	1,2,4-Trichlorobenzene	180	11.689	11.690	(0.993)	30281	0.50000	0.5124
* 27	Naphthalene-d8	136	11.774	11.775	(1.000)	679665	4.00000	
30	Hexachlorobutadiene	225	12.176	12.169	(1.034)	18287	0.50000	0.5089
39	Dimethylphthalate	163	14.877	14.877	(0.967)	54277	0.50000	0.5122
* 42	Acenaphthene-d10	162	15.387	15.380	(1.000)	335786	4.00000	
50	Diethylphthalate	149	16.331	16.324	(1.061)	57205	0.50000	0.5211
54	N-Nitrosodiphenylamine	169	16.716	16.717	(0.907)	43874	0.50000	0.5326
57	Hexachlorobenzene	284	17.797	17.798	(0.966)	18601	0.50000	0.5044

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	58 Pentachlorophenol	266	18.153	18.154	(0.985)	13495	1.00000	0.6606
*	59 Phenanthrene-d10	188	18.424	18.417	(1.000)	613961	4.00000	
$	66 Terphenyl-d14	244	21.542	21.543	(0.918)	37662	0.50000	0.4975
	67 Butylbenzylphthalate	149	22.463	22.465	(0.958)	24470	0.50000	0.3991
*	69 Chrysene-d12	240	23.454	23.455	(1.000)	464623	4.00000	
*	77 Perylene-d12	264	26.187	26.188	(1.000)	521317	4.00000	
	79 Dibenzo(a,h)anthracene	278	29.010	29.019	(1.108)	72052	0.50000	0.4220
	90 N-Nitrosodimethylamine	74	4.941	4.948	(0.531)	39414	1.00000	1.069

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT10031507S.D
Lab Smp Id: SLC0238-CAL4
Analysis Type: SV
Quant Type: ISTD
Operator: JGR
Method File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Misc Info:

Calibration Date: 15-MAR-2023
Calibration Time: 23:06
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	188081	94041	376162	191648	1.90
27 Naphthalene-d8	674549	337275	1349098	679665	0.76
42 Acenaphthene-d10	328275	164138	656550	335786	2.29
59 Phenanthrene-d10	597140	298570	1194280	613961	2.82
69 Chrysene-d12	466503	233252	933006	464623	-0.40
77 Perylene-d12	518203	259102	1036406	521317	0.60

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.30	8.80	9.80	9.30	0.00
27 Naphthalene-d8	11.77	11.27	12.27	11.77	0.00
42 Acenaphthene-d10	15.39	14.89	15.89	15.39	0.00
59 Phenanthrene-d10	18.42	17.92	18.92	18.42	0.00
69 Chrysene-d12	23.45	22.95	23.95	23.45	0.00
77 Perylene-d12	26.19	25.69	26.69	26.19	0.00

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

REVIEW SUMMARY FOR FILE - NT10031507S.D

Lab ID: SLC0238-CAL4
nt10.i, 20230315.b\20230315.b\SIMABN2.m,   15-MAR-2023 23:44

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.949	0.000	0.9487	Benzoic acid

RRT check based on Ccal File: 20230315.b/NT10031510S.D

On Column LOD for nt10.i, 20230315.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

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

Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031508S.D

Date : 16-MAR-2023 00:22

Client ID:

Instrument: nt10.i

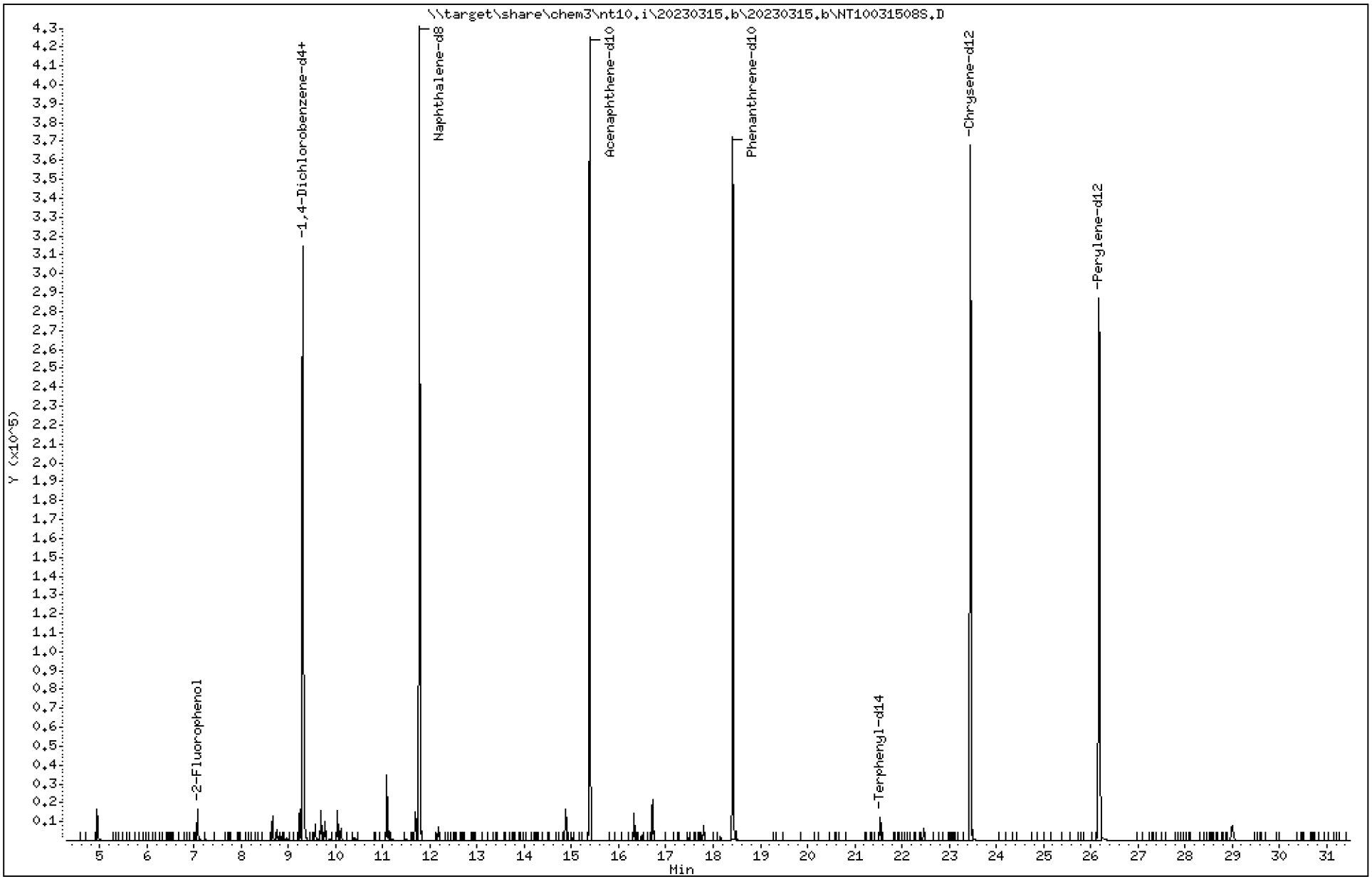
Sample Info: SLC0238-CAL3

Volume Injected (uL): 1.0

Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25



ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031508S.D
Lab Smp Id: SLC0238-CAL3
Inj Date : 16-MAR-2023 00:22 MS Autotune Date: 16-JAN-2023 17:42
Operator : JGR Inst ID: nt10.i
Smp Info : SLC0238-CAL3
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Meth Date : 16-Mar-2023 14:39 van Quant Type: ISTD
Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D
Als bottle: 8 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
$	1 2-Fluorophenol	112	7.073	7.073	(0.761)	16956	0.30000	0.2964
	3 Phenol	94	8.657	8.664	(0.931)	15852	0.20000	0.2020
	7 1,3-Dichlorobenzene	146	9.236	9.236	(0.993)	15032	0.20000	0.2047
*	8 1,4-Dichlorobenzene-d4	152	9.299	9.298	(1.000)	188644	4.00000	
	9 1,4-Dichlorobenzene	146	9.330	9.329	(1.003)	14441	0.20000	0.2037
	11 Benzyl alcohol	79	9.562	9.570	(1.028)	8244	0.20000	0.1812
	12 1,2-Dichlorobenzene	146	9.687	9.686	(1.042)	14306	0.20000	0.2052
	13 2-Methylphenol	108	9.772	9.772	(1.051)	10287	0.20000	0.1892
	15 4-Methylphenol	108	10.036	10.036	(1.079)	10727	0.20000	0.1898
	16 N-Nitroso-di-n-propylamine	70	10.114	10.113	(1.088)	7586	0.20000	0.1898
	22 2,4-Dimethylphenol	107	11.078	11.087	(0.941)	23302	0.40000	0.4059
	24 Benzoic acid	105	11.189	11.189	(0.950)	891	0.80000	0.02840(M)
	26 1,2,4-Trichlorobenzene	180	11.690	11.690	(0.993)	11744	0.20000	0.2034
*	27 Naphthalene-d8	136	11.775	11.775	(1.000)	664117	4.00000	
	30 Hexachlorobutadiene	225	12.169	12.169	(1.033)	7079	0.20000	0.2016
	39 Dimethylphthalate	163	14.878	14.877	(0.967)	20353	0.20000	0.1965
*	42 Acenaphthene-d10	162	15.381	15.380	(1.000)	328147	4.00000	
	50 Diethylphthalate	149	16.324	16.324	(1.061)	20971	0.20000	0.1955
	54 N-Nitrosodiphenylamine	169	16.717	16.717	(0.908)	16188	0.20000	0.2000
	57 Hexachlorobenzene	284	17.790	17.798	(0.966)	7274	0.20000	0.2008

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	58 Pentachlorophenol	266	18.154	18.154	(0.986)	3337	0.40000	0.1667
*	59 Phenanthrene-d10	188	18.417	18.417	(1.000)	603272	4.00000	
$	66 Terphenyl-d14	244	21.543	21.543	(0.918)	14479	0.20000	0.1895
	67 Butylbenzylphthalate	149	22.464	22.465	(0.958)	7787	0.20000	0.1262
*	69 Chrysene-d12	240	23.455	23.455	(1.000)	468991	4.00000	
*	77 Perylene-d12	264	26.181	26.188	(1.000)	525052	4.00000	
	79 Dibenzo(a,h)anthracene	278	29.003	29.019	(1.108)	24266	0.20000	0.1409
	90 N-Nitrosodimethylamine	74	4.941	4.948	(0.531)	14672	0.40000	0.4044

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT10031508S.D
Lab Smp Id: SLC0238-CAL3
Analysis Type: SV
Quant Type: ISTD
Operator: JGR
Method File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Misc Info:

Calibration Date: 15-MAR-2023
Calibration Time: 23:06
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	188081	94041	376162	188644	0.30
27 Naphthalene-d8	674549	337275	1349098	664117	-1.55
42 Acenaphthene-d10	328275	164138	656550	328147	-0.04
59 Phenanthrene-d10	597140	298570	1194280	603272	1.03
69 Chrysene-d12	466503	233252	933006	468991	0.53
77 Perylene-d12	518203	259102	1036406	525052	1.32

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.30	8.80	9.80	9.30	0.00
27 Naphthalene-d8	11.77	11.27	12.27	11.78	0.01
42 Acenaphthene-d10	15.39	14.89	15.89	15.38	-0.04
59 Phenanthrene-d10	18.42	17.92	18.92	18.42	-0.04
69 Chrysene-d12	23.45	22.95	23.95	23.46	0.00
77 Perylene-d12	26.19	25.69	26.69	26.18	-0.03

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

REVIEW SUMMARY FOR FILE - NT10031508S.D

Lab ID: SLC0238-CAL3
nt10.i, 20230315.b\20230315.b\SIMABN2.m,   16-MAR-2023 00:22

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.950	0.000	0.9502	Benzoic acid

RRT check based on Ccal File: 20230315.b/NT10031510S.D

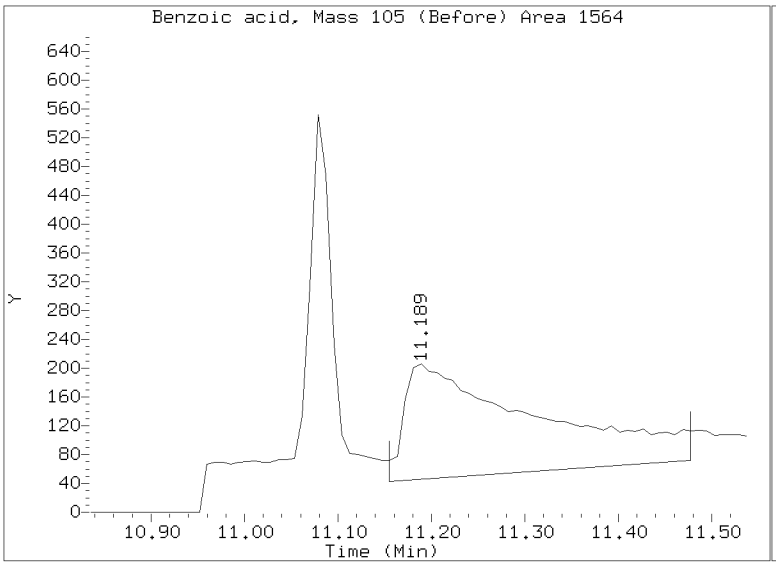
On Column LOD for nt10.i, 20230315.b\SIMABN2.m, PSDDA.sub = 0.0000

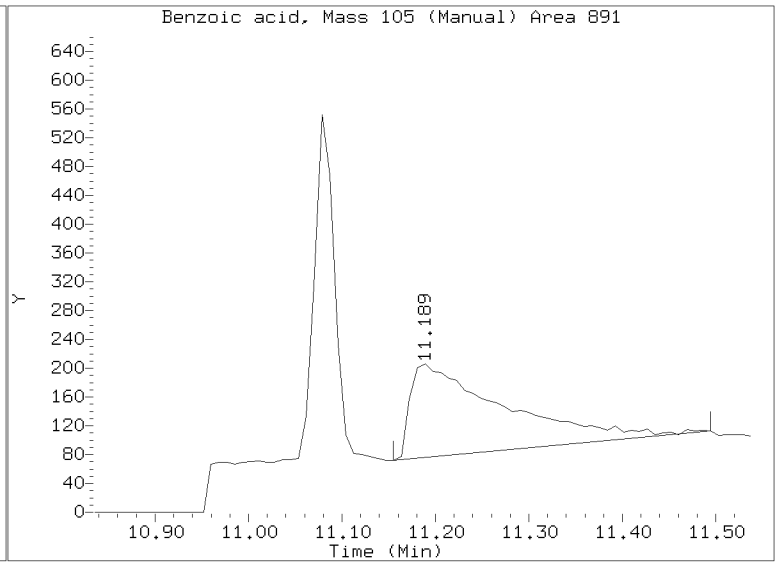
Exception: 1,2,4-Trichlorobenzene 0.0010

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230315.b/20230315.b/NT10031508S.D
Injection Date: 16-MAR-2023 00:22
Lab ID:SLC0238-CAL3 Client ID:
Report Date: 03/16/2023 14:49





Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031509S.D

Date : 16-MAR-2023 01:00

Client ID:

Instrument: nt10.i

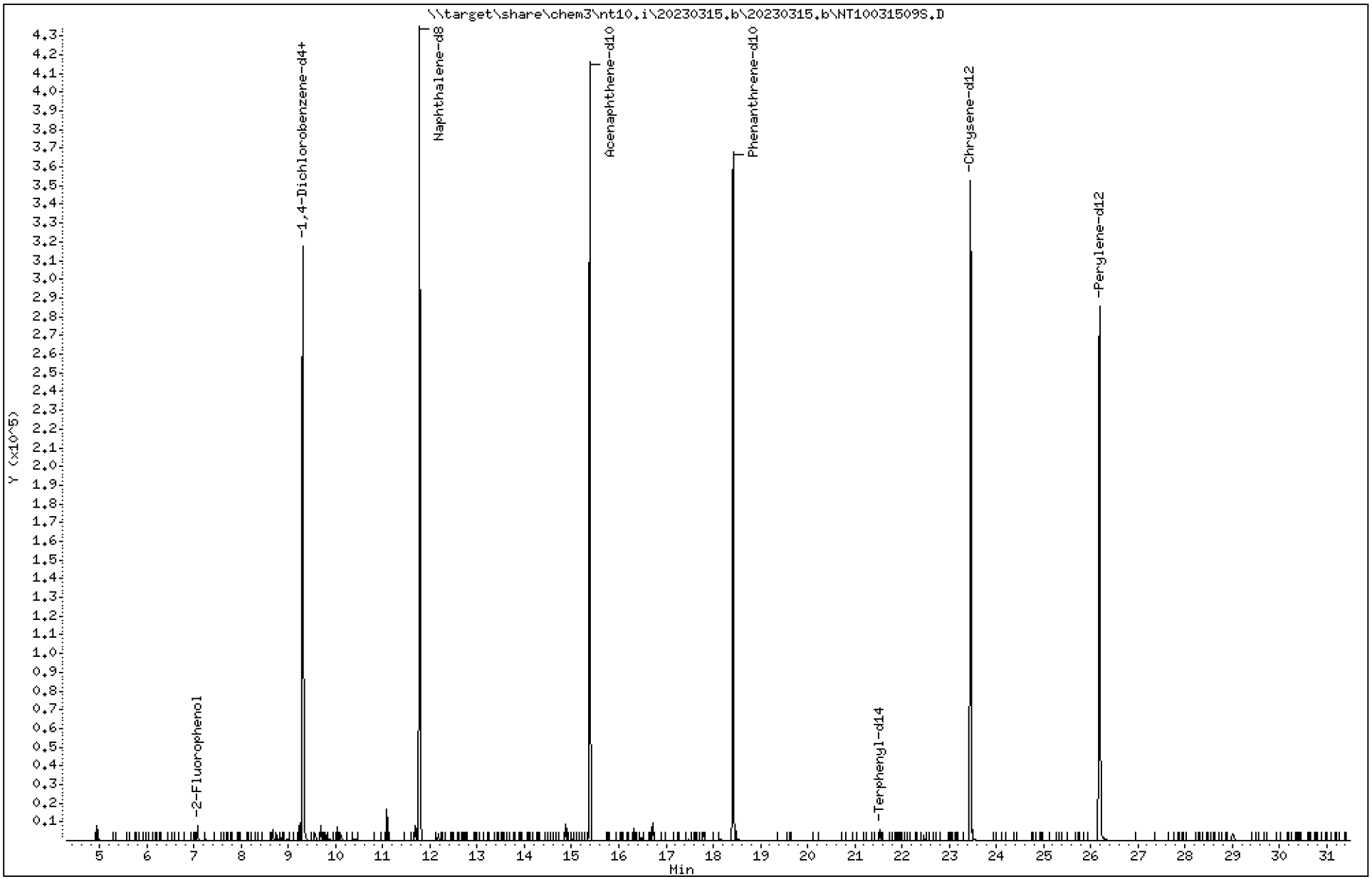
Sample Info: SLC0238-CAL2

Volume Injected (uL): 1.0

Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25



ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031509S.D
Lab Smp Id: SLC0238-CAL2
Inj Date : 16-MAR-2023 01:00 MS Autotune Date: 16-JAN-2023 17:42
Operator : JGR Inst ID: nt10.i
Smp Info : SLC0238-CAL2
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Meth Date : 16-Mar-2023 14:39 van Quant Type: ISTD
Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D
Als bottle: 9 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$ 1	2-Fluorophenol	112	7.073	7.073	(0.761)	8469	0.15000	0.1462
3	Phenol	94	8.657	8.664	(0.931)	7915	0.10000	0.09961
7	1,3-Dichlorobenzene	146	9.236	9.236	(0.993)	7959	0.10000	0.1070
* 8	1,4-Dichlorobenzene-d4	152	9.298	9.298	(1.000)	190985	4.00000	
9	1,4-Dichlorobenzene	146	9.329	9.329	(1.003)	7577	0.10000	0.1056
11	Benzyl alcohol	79	9.562	9.570	(1.028)	3916	0.10000	0.08501
12	1,2-Dichlorobenzene	146	9.686	9.686	(1.042)	7452	0.10000	0.1056
13	2-Methylphenol	108	9.772	9.772	(1.051)	5108	0.10000	0.09278
15	4-Methylphenol	108	10.036	10.036	(1.079)	5283	0.10000	0.09234
16	N-Nitroso-di-n-propylamine	70	10.113	10.113	(1.088)	3707	0.10000	0.09162
22	2,4-Dimethylphenol	107	11.086	11.087	(0.942)	11249	0.20000	0.1901
24	Benzoic acid	105	Compound Not Detected.					
26	1,2,4-Trichlorobenzene	180	11.689	11.690	(0.993)	6182	0.10000	0.1038
* 27	Naphthalene-d8	136	11.774	11.775	(1.000)	684638	4.00000	
30	Hexachlorobutadiene	225	12.176	12.169	(1.034)	3646	0.10000	0.1007
39	Dimethylphthalate	163	14.877	14.877	(0.967)	10444	0.10000	0.1008
* 42	Acenaphthene-d10	162	15.387	15.380	(1.000)	328366	4.00000	
50	Diethylphthalate	149	16.331	16.324	(1.061)	9630	0.10000	0.08971
54	N-Nitrosodiphenylamine	169	16.716	16.717	(0.907)	7688	0.10000	0.09515
57	Hexachlorobenzene	284	17.797	17.798	(0.966)	3777	0.10000	0.1044

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	58 Pentachlorophenol	266	18.153	18.154	(0.985)	1130	0.20000	0.05659(M)
*	59 Phenanthrene-d10	188	18.424	18.417	(1.000)	602202	4.00000	
$	66 Terphenyl-d14	244	21.542	21.543	(0.918)	6866	0.10000	0.09337
	67 Butylbenzylphthalate	149	22.463	22.465	(0.958)	3284	0.10000	0.05534
*	69 Chrysene-d12	240	23.454	23.455	(1.000)	451316	4.00000	
*	77 Perylene-d12	264	26.187	26.188	(1.000)	517188	4.00000	
	79 Dibenzo(a,h)anthracene	278	29.010	29.019	(1.108)	11218	0.10000	0.06608
	90 N-Nitrosodimethylamine	74	4.941	4.948	(0.531)	7449	0.20000	0.2028

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT10031509S.D
Lab Smp Id: SLC0238-CAL2
Analysis Type: SV
Quant Type: ISTD
Operator: JGR
Method File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Misc Info:

Calibration Date: 15-MAR-2023
Calibration Time: 23:06
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	188081	94041	376162	190985	1.54
27 Naphthalene-d8	674549	337275	1349098	684638	1.50
42 Acenaphthene-d10	328275	164138	656550	328366	0.03
59 Phenanthrene-d10	597140	298570	1194280	602202	0.85
69 Chrysene-d12	466503	233252	933006	451316	-3.26
77 Perylene-d12	518203	259102	1036406	517188	-0.20

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.30	8.80	9.80	9.30	0.00
27 Naphthalene-d8	11.77	11.27	12.27	11.77	0.00
42 Acenaphthene-d10	15.39	14.89	15.89	15.39	0.00
59 Phenanthrene-d10	18.42	17.92	18.92	18.42	0.00
69 Chrysene-d12	23.45	22.95	23.95	23.45	0.00
77 Perylene-d12	26.19	25.69	26.69	26.19	0.00

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

REVIEW SUMMARY FOR FILE - NT10031509S.D

Lab ID: SLC0238-CAL2
nt10.i, 20230315.b\20230315.b\SIMABN2.m,   16-MAR-2023 01:00

RT	CO-ELUTION COMPOUNDS
NO CO-ELUTIONS	

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
NONE			

RRT check based on Ccal File: 20230315.b/NT10031510S.D

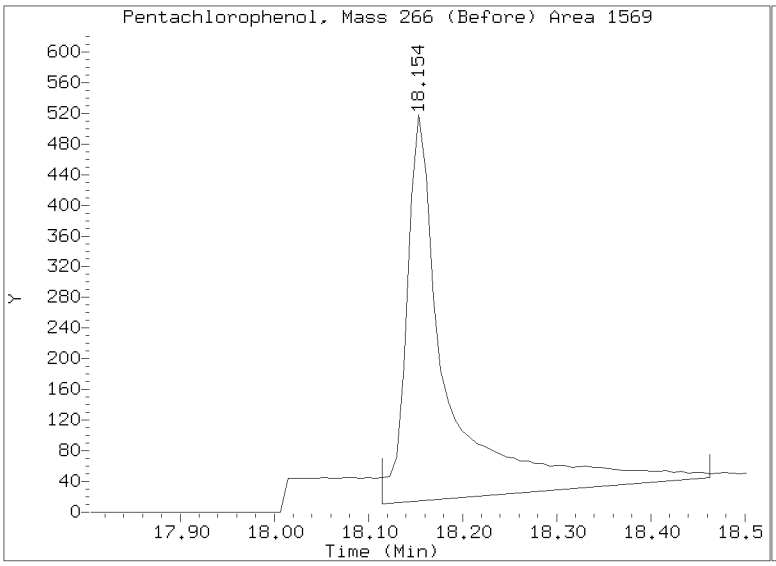
On Column LOD for nt10.i, 20230315.b\SIMABN2.m, PSDDA.sub = 0.0000

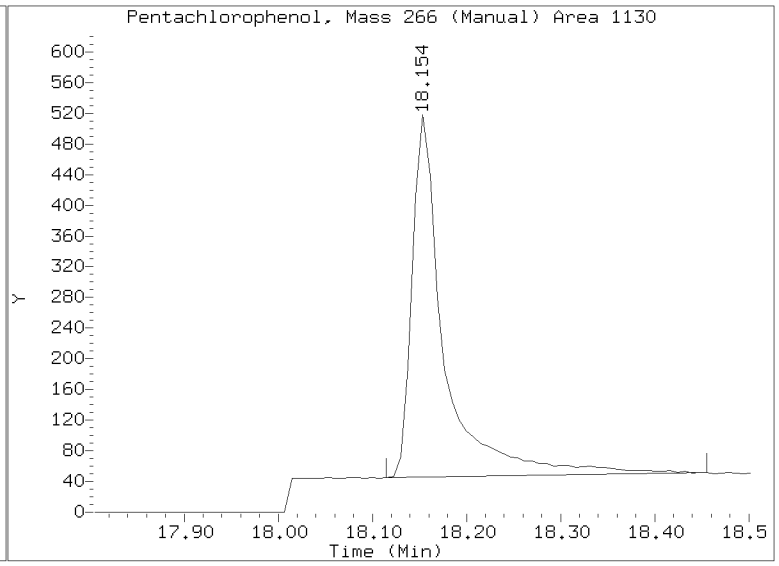
Exception: 1,2,4-Trichlorobenzene 0.0010

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230315.b/20230315.b/NT10031509S.D
Injection Date: 16-MAR-2023 01:00
Lab ID:SLC0238-CAL2 Client ID:
Report Date: 03/16/2023 14:49





Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031510S.D

Date : 16-MAR-2023 01:38

Client ID:

Instrument: nt10.i

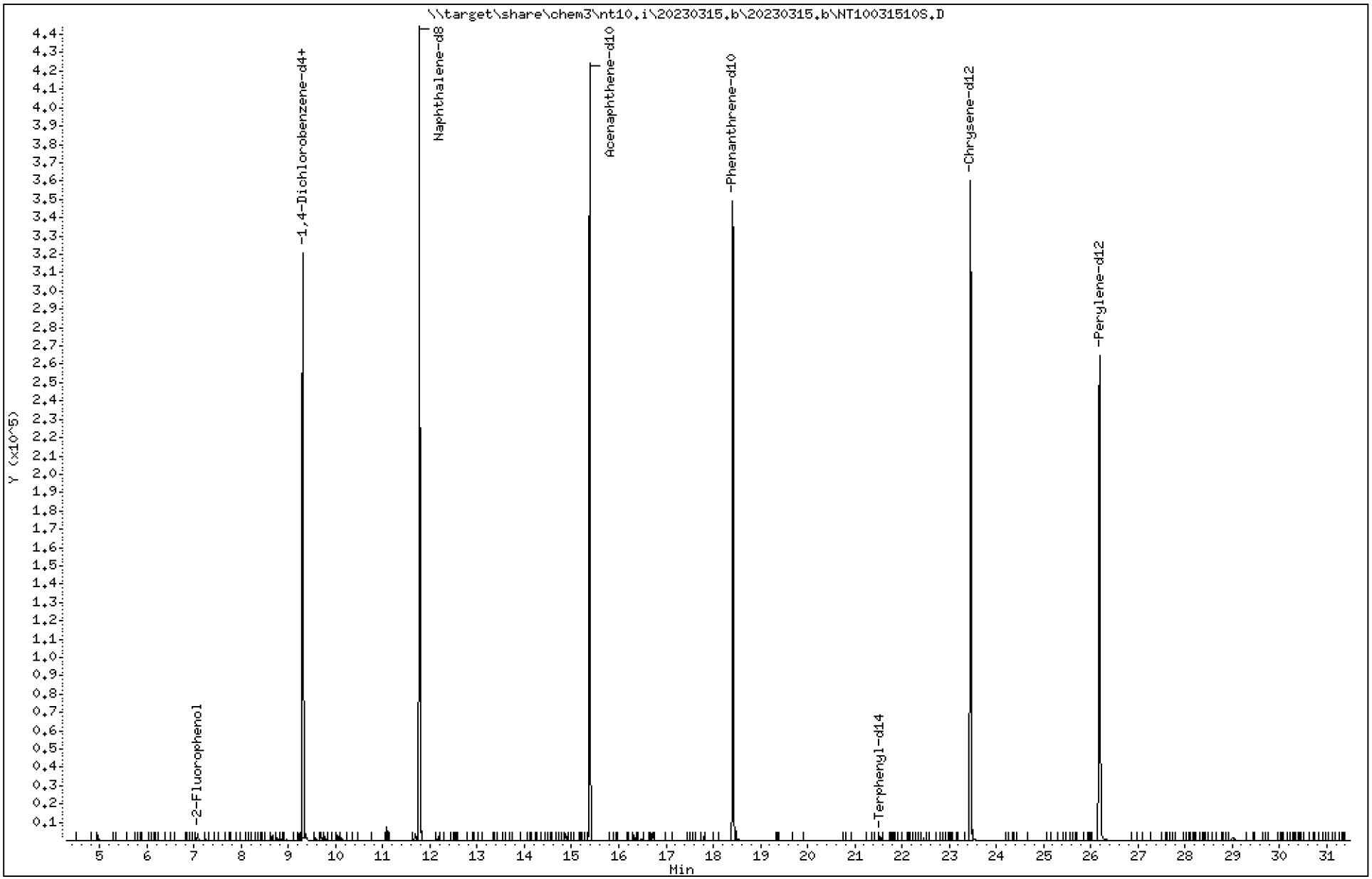
Sample Info: SLC0238-CAL1

Volume Injected (uL): 1.0

Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25



ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031510S.D
Lab Smp Id: SLC0238-CAL1
Inj Date : 16-MAR-2023 01:38 MS Autotune Date: 16-JAN-2023 17:42
Operator : JGR Inst ID: nt10.i
Smp Info : SLC0238-CAL1
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Meth Date : 16-Mar-2023 14:39 van Quant Type: ISTD
Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D
Als bottle: 10 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
$ 1	2-Fluorophenol	112	7.073	7.073	(0.761)	3849	0.07500	0.06782
3	Phenol	94	8.664	8.664	(0.932)	3653	0.05000	0.04692
7	1,3-Dichlorobenzene	146	9.236	9.236	(0.993)	3896	0.05000	0.05347
* 8	1,4-Dichlorobenzene-d4	152	9.298	9.298	(1.000)	187154	4.00000	
9	1,4-Dichlorobenzene	146	9.329	9.329	(1.003)	3725	0.05000	0.05296
11	Benzyl alcohol	79	9.570	9.570	(1.029)	1831	0.05000	0.04056
12	1,2-Dichlorobenzene	146	9.686	9.686	(1.042)	3651	0.05000	0.05278
13	2-Methylphenol	108	9.772	9.772	(1.051)	2592	0.05000	0.04804
15	4-Methylphenol	108	10.036	10.036	(1.079)	2412	0.05000	0.04302
16	N-Nitroso-di-n-propylamine	70	10.113	10.113	(1.088)	1741	0.05000	0.04391
22	2,4-Dimethylphenol	107	11.087	11.087	(0.942)	4967	0.10000	0.08781
24	Benzoic acid	105	Compound Not Detected.					
26	1,2,4-Trichlorobenzene	180	11.690	11.690	(0.993)	3146	0.05000	0.05529
* 27	Naphthalene-d8	136	11.775	11.775	(1.000)	654413	4.00000	
30	Hexachlorobutadiene	225	12.169	12.169	(1.033)	1885	0.05000	0.05449
39	Dimethylphthalate	163	14.877	14.877	(0.967)	5095	0.05000	0.05062
* 42	Acenaphthene-d10	162	15.380	15.380	(1.000)	318969	4.00000	
50	Diethylphthalate	149	16.324	16.324	(1.061)	4381	0.05000	0.04201
54	N-Nitrosodiphenylamine	169	16.717	16.717	(0.908)	3307	0.05000	0.04226
57	Hexachlorobenzene	284	17.798	17.798	(0.966)	1826	0.05000	0.05212

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
58	Pentachlorophenol	266	18.154	18.154	(0.986)	337	0.10000	0.01743(M)
* 59	Phenanthrene-d10	188	18.417	18.417	(1.000)	583319	4.00000	
$ 66	Terphenyl-d14	244	21.543	21.543	(0.918)	3504	0.05000	0.04882
67	Butylbenzylphthalate	149	22.464	22.465	(0.958)	1336	0.05000	0.02307
* 69	Chrysene-d12	240	23.455	23.455	(1.000)	440533	4.00000	
* 77	Perylene-d12	264	26.188	26.188	(1.000)	488759	4.00000	
79	Dibenzo(a,h)anthracene	278	29.018	29.019	(1.108)	4785	0.05000	0.02982
90	N-Nitrosodimethylamine	74	4.948	4.948	(0.532)	3496	0.10000	0.09712

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT10031510S.D
Lab Smp Id: SLC0238-CAL1
Analysis Type: SV
Quant Type: ISTD
Operator: JGR
Method File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Misc Info:

Calibration Date: 15-MAR-2023
Calibration Time: 23:06
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	188081	94041	376162	187154	-0.49
27 Naphthalene-d8	674549	337275	1349098	654413	-2.99
42 Acenaphthene-d10	328275	164138	656550	318969	-2.83
59 Phenanthrene-d10	597140	298570	1194280	583319	-2.31
69 Chrysene-d12	466503	233252	933006	440533	-5.57
77 Perylene-d12	518203	259102	1036406	488759	-5.68

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.30	8.80	9.80	9.30	0.00
27 Naphthalene-d8	11.77	11.27	12.27	11.78	0.01
42 Acenaphthene-d10	15.39	14.89	15.89	15.38	-0.04
59 Phenanthrene-d10	18.42	17.92	18.92	18.42	-0.04
69 Chrysene-d12	23.45	22.95	23.95	23.46	0.00
77 Perylene-d12	26.19	25.69	26.69	26.19	0.00

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

REVIEW SUMMARY FOR FILE - NT10031510S.D

Lab ID: SLC0238-CAL1
nt10.i, 20230315.b\20230315.b\SIMABN2.m,   16-MAR-2023 01:38

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

RRT check based on Ccal File: 20230315.b/NT10031510S.D

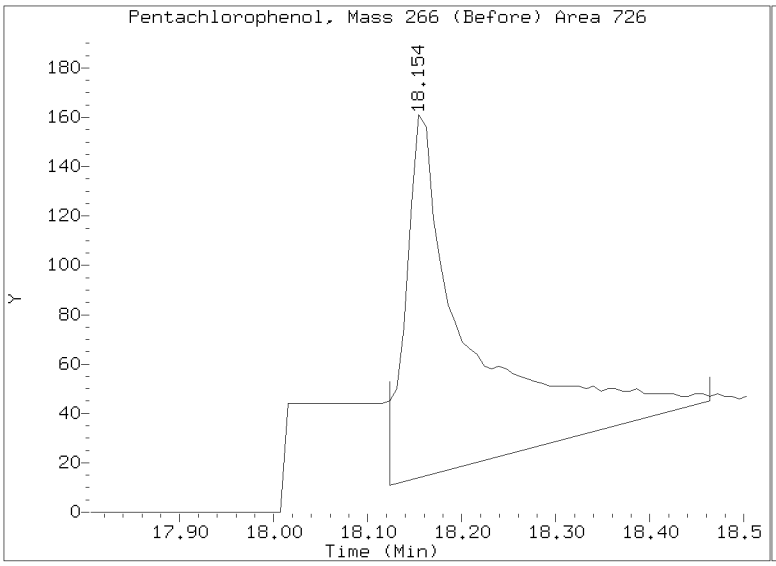
On Column LOD for nt10.i, 20230315.b\SIMABN2.m, PSDDA.sub = 0.0000

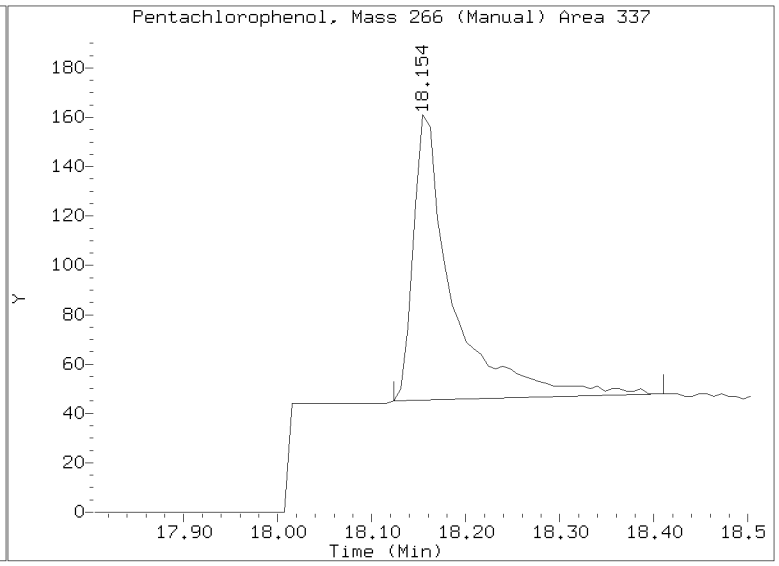
Exception: 1,2,4-Trichlorobenzene 0.0010

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230315.b/20230315.b/NT10031510S.D
Injection Date: 16-MAR-2023 01:38
Lab ID:SLC0238-CAL1 Client ID:
Report Date: 03/16/2023 14:49





Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

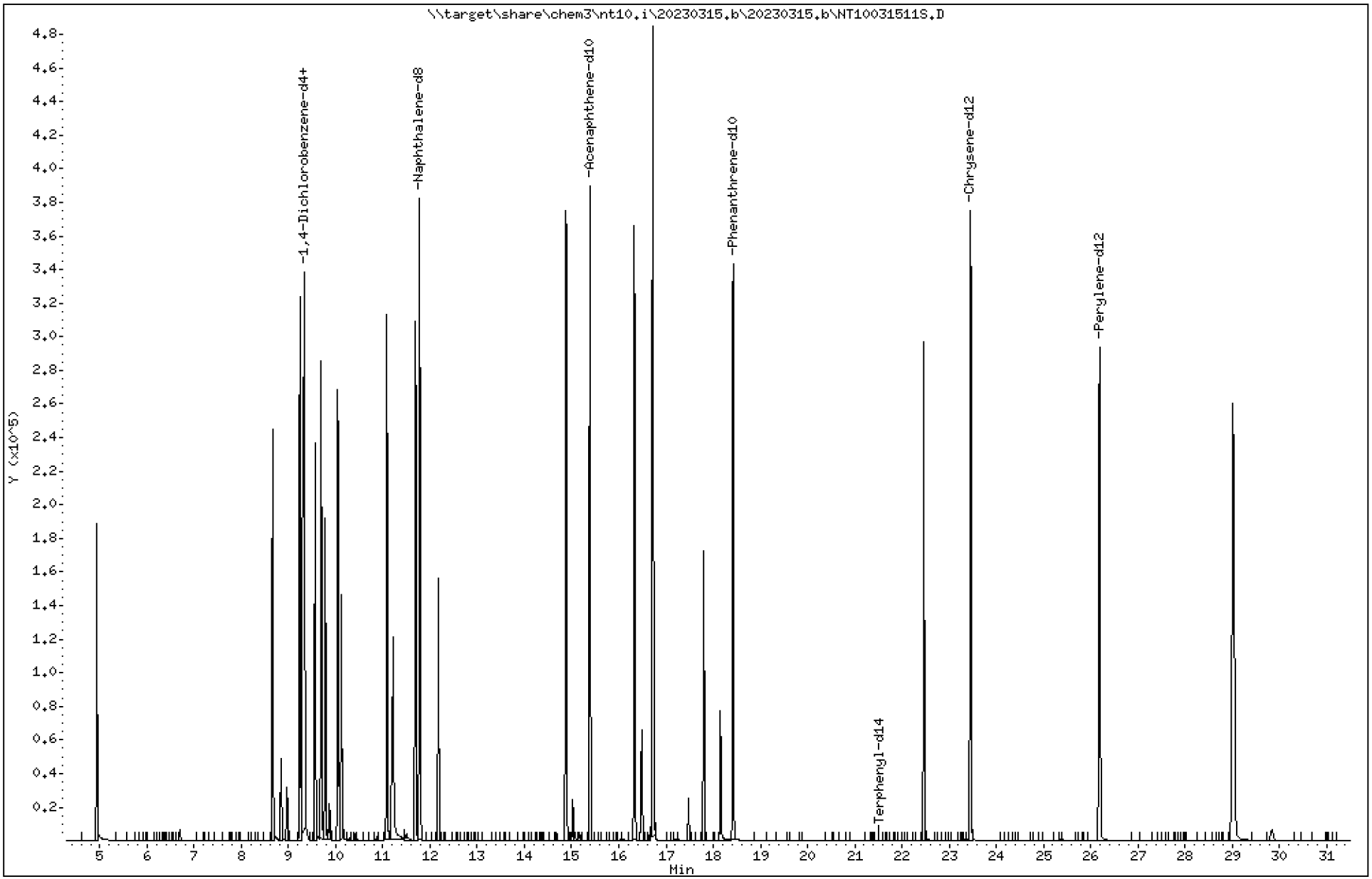
Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25



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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

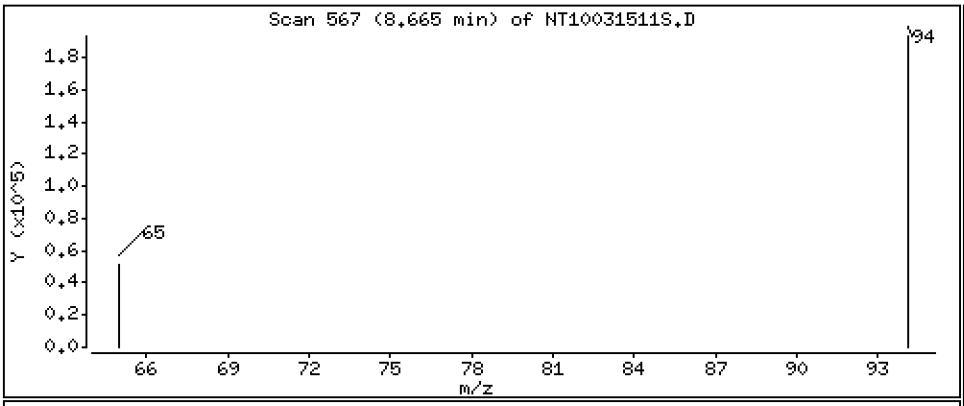
Operator: JGR

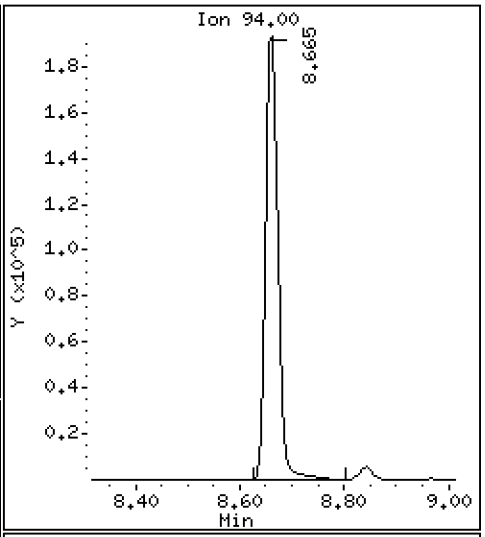
Column phase: ZB-5msi

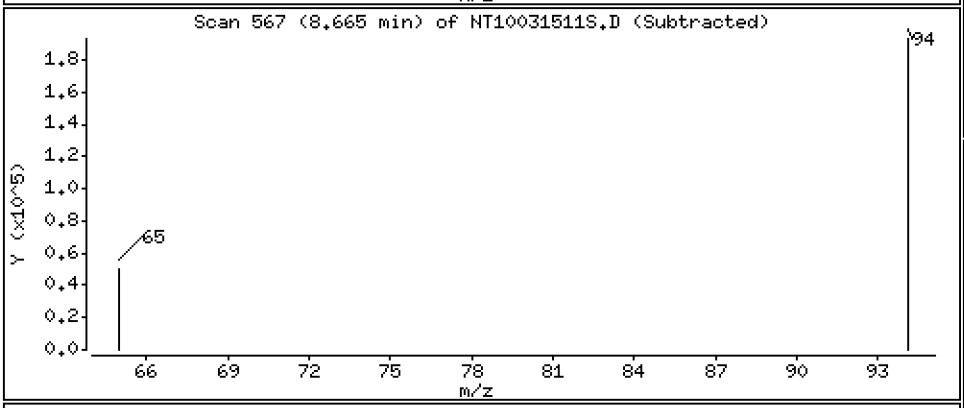
Column diameter: 0.25

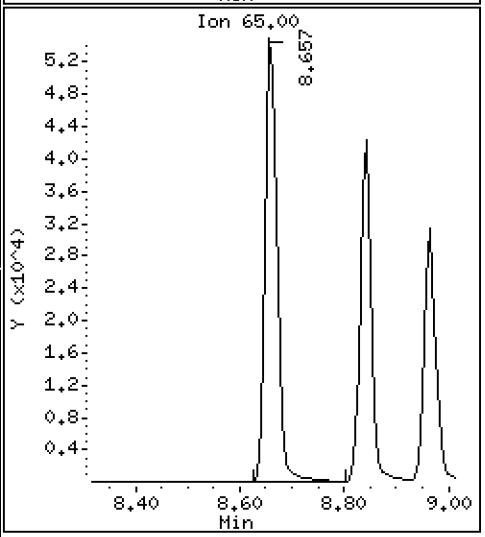
3 Phenol

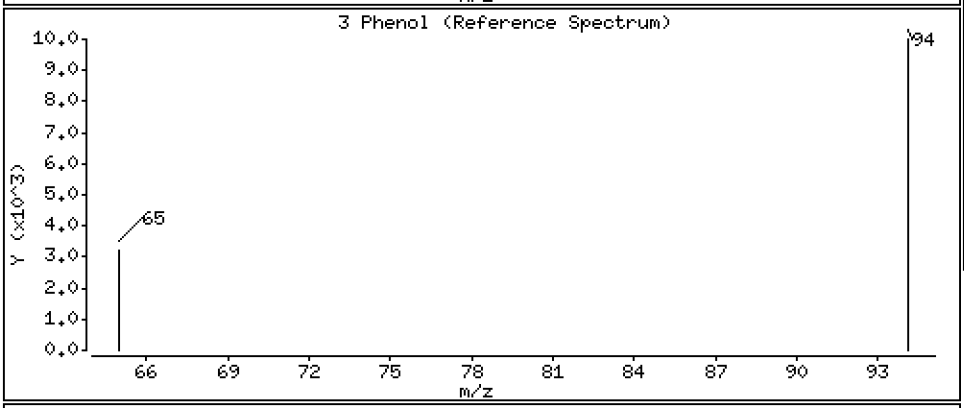
Concentration: 4.373 ug/L

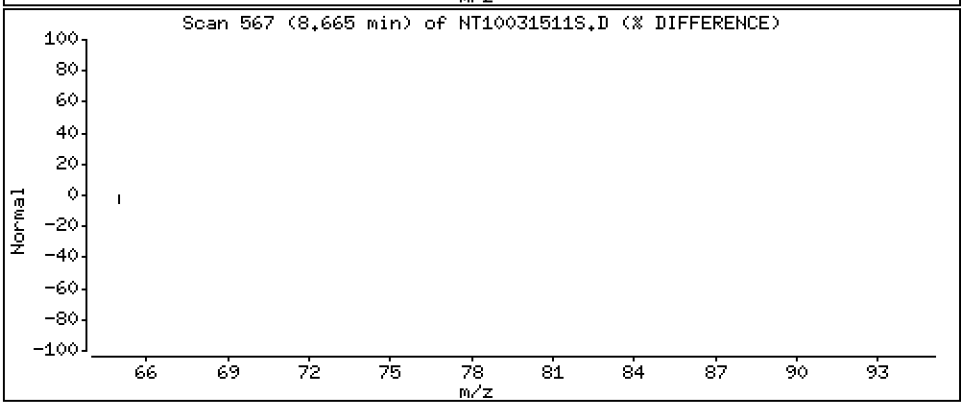












Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

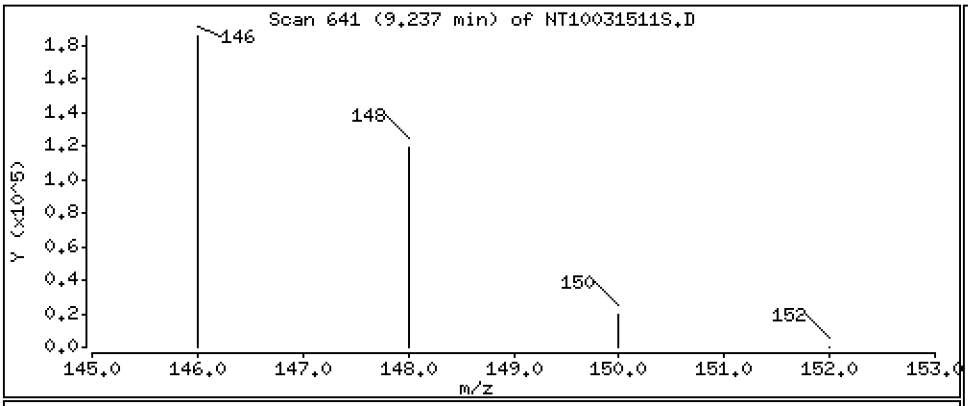
Operator: JGR

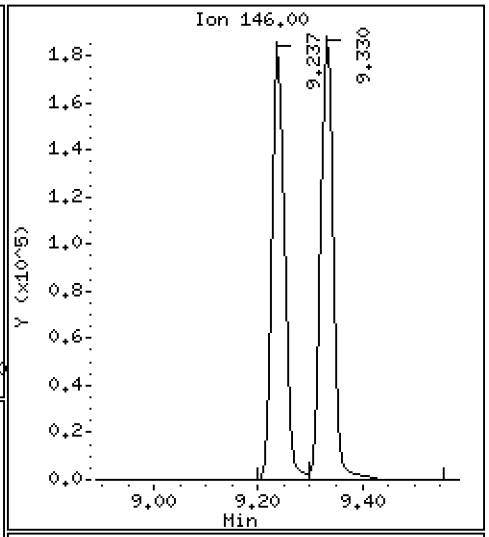
Column phase: ZB-5msi

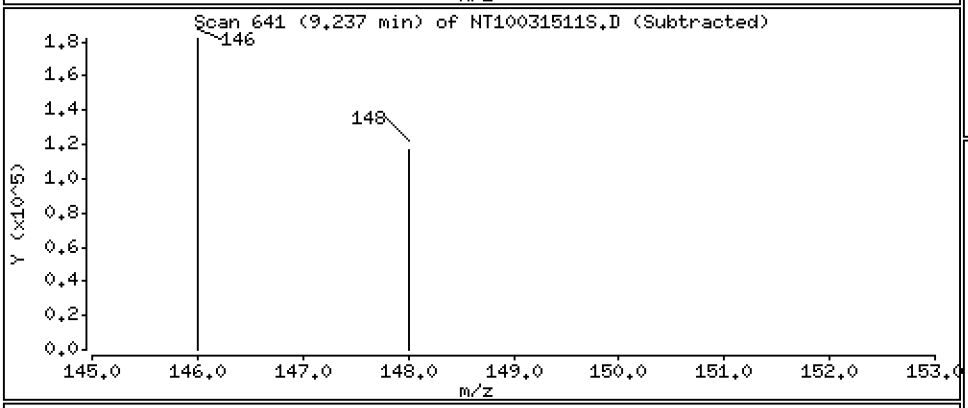
Column diameter: 0.25

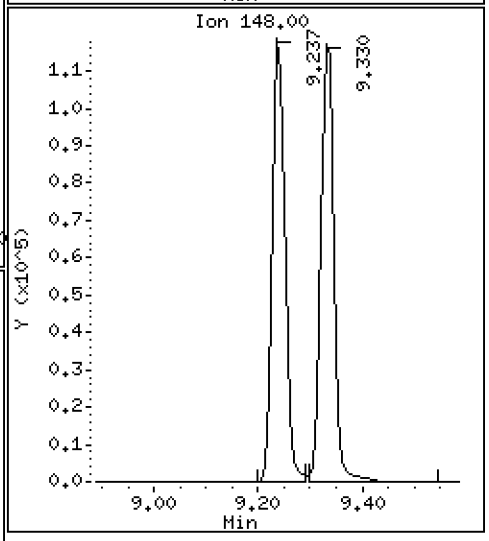
7 1,3-Dichlorobenzene

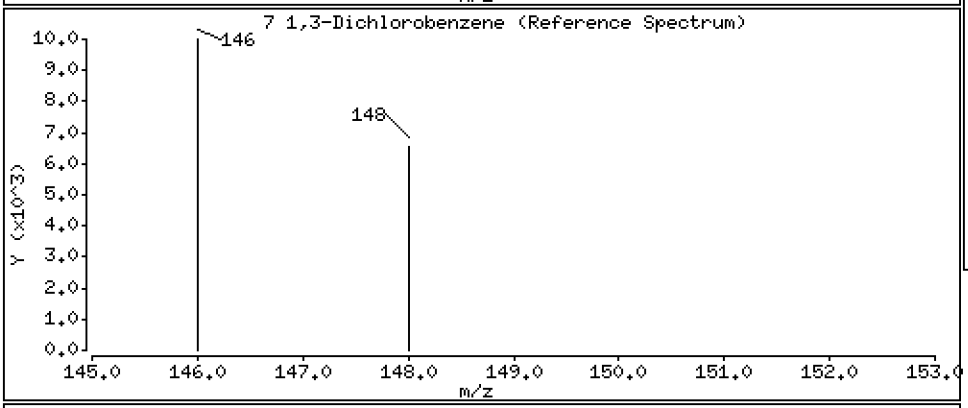
Concentration: 4.643 ug/L

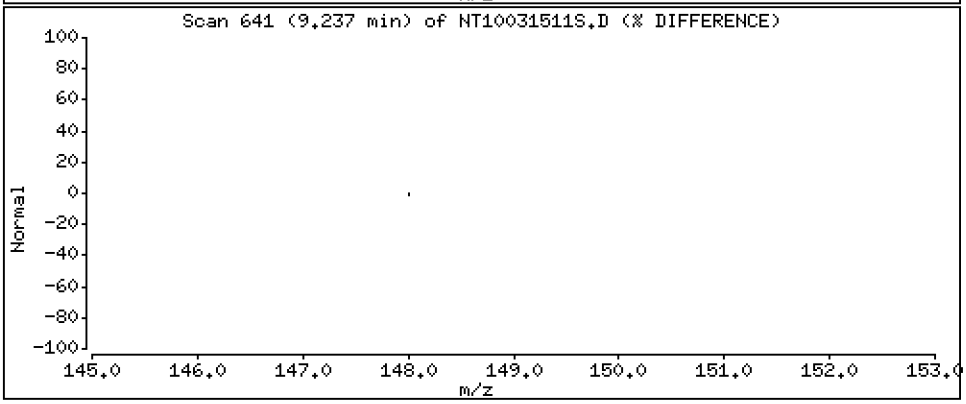












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

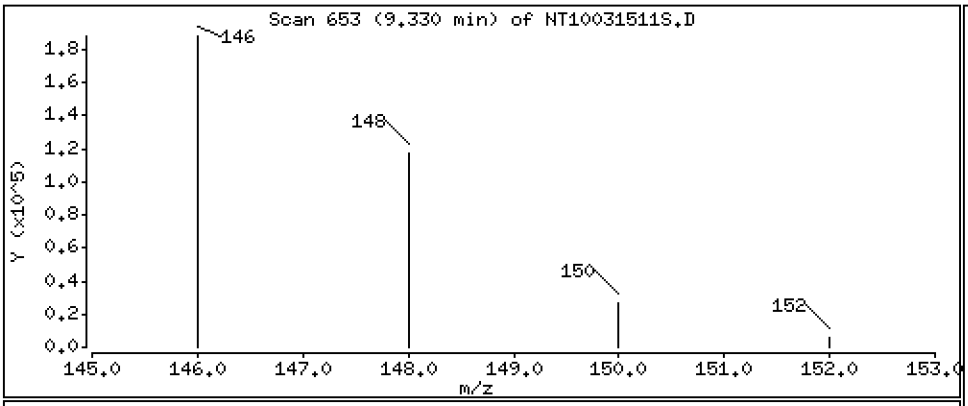
Operator: JGR

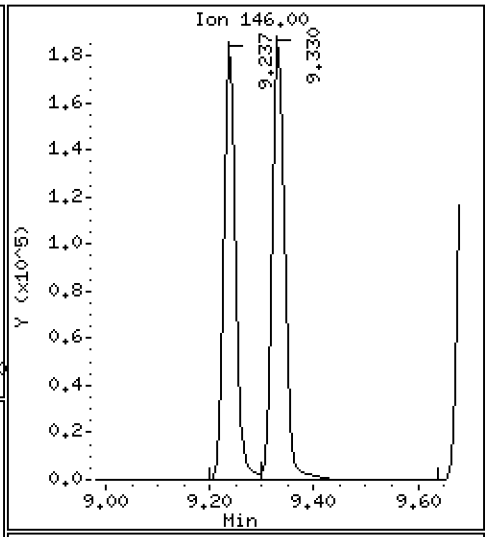
Column phase: ZB-5msi

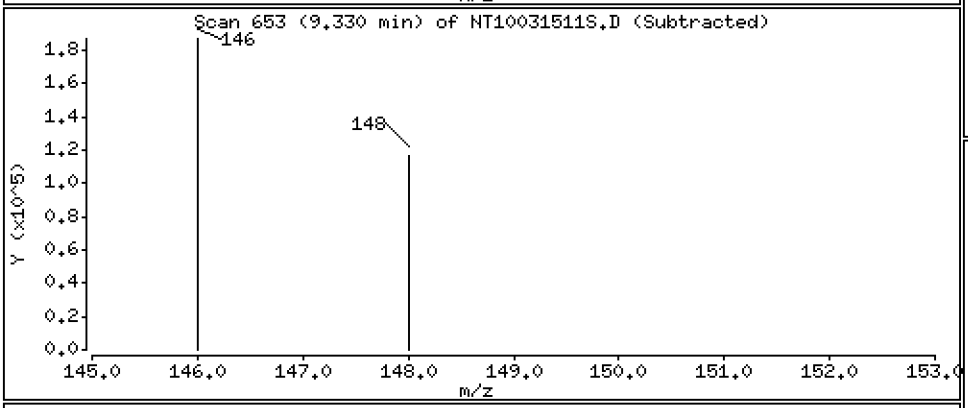
Column diameter: 0.25

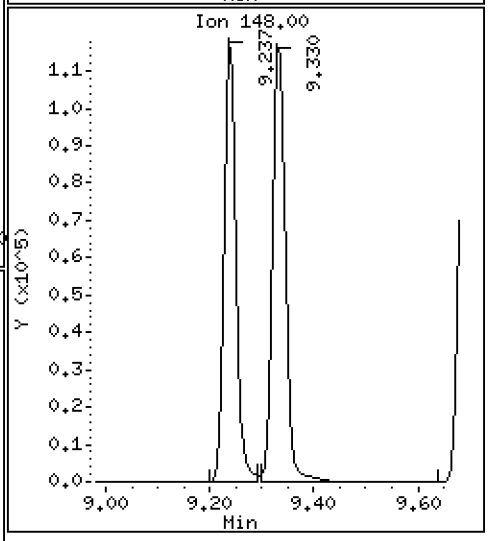
9 1,4-Dichlorobenzene

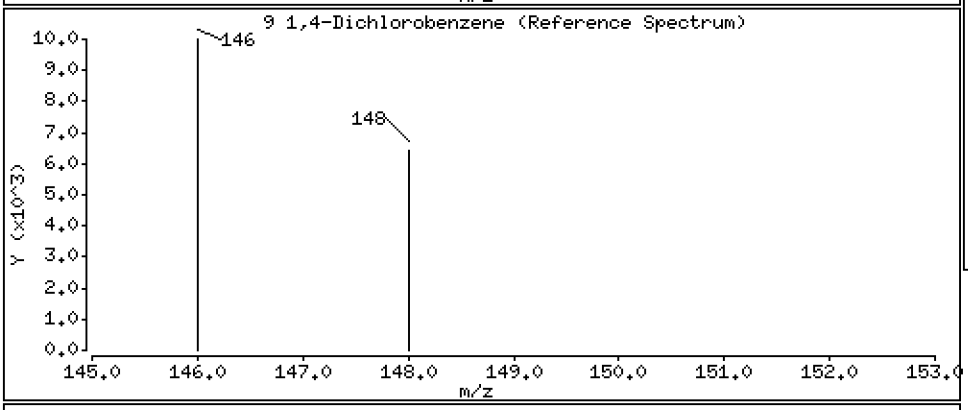
Concentration: 4.838 ug/L

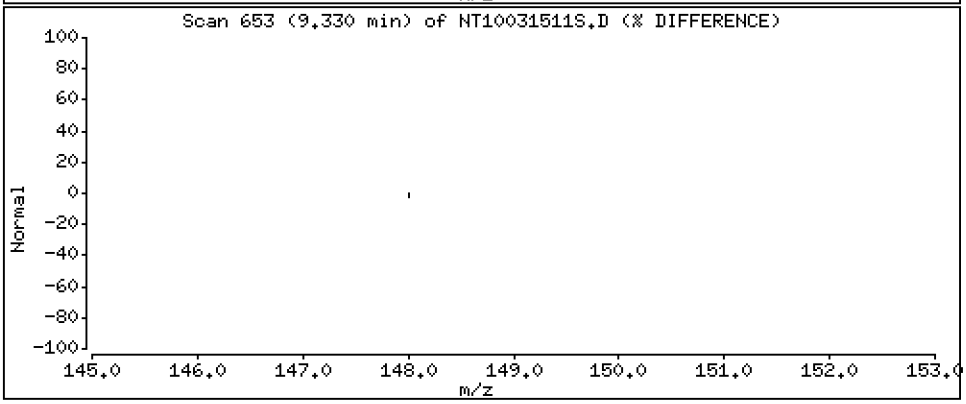












Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

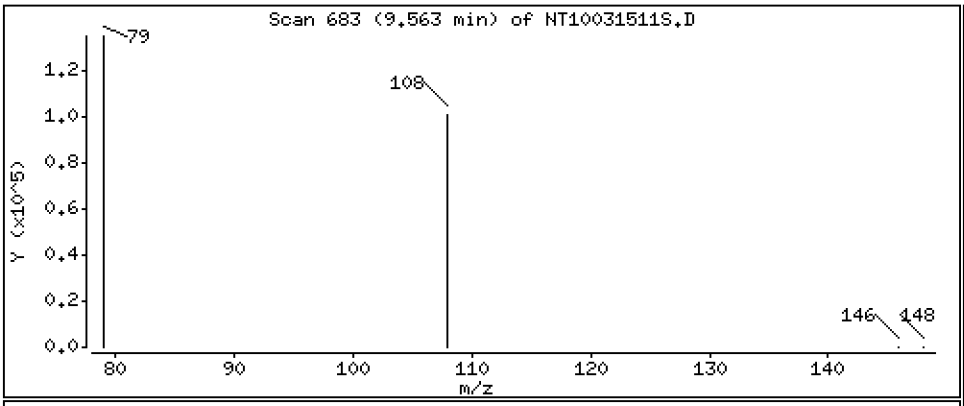
Operator: JGR

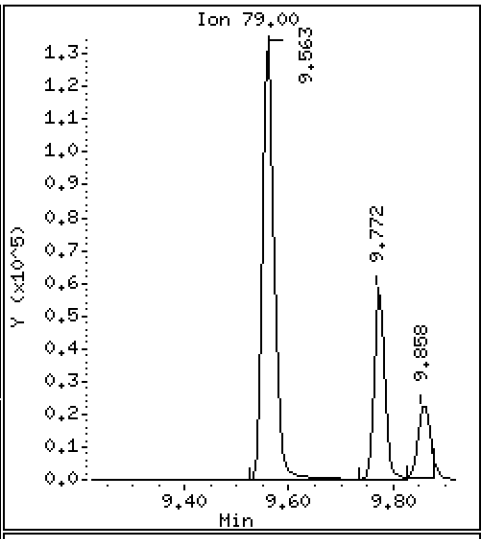
Column phase: ZB-5msi

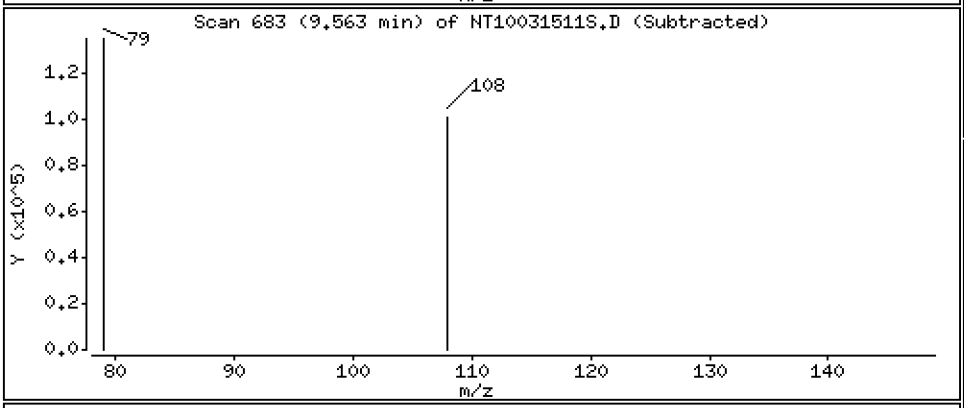
Column diameter: 0.25

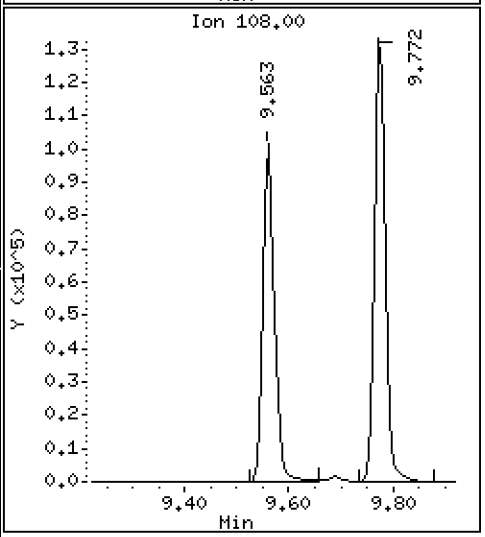
11 Benzyl alcohol

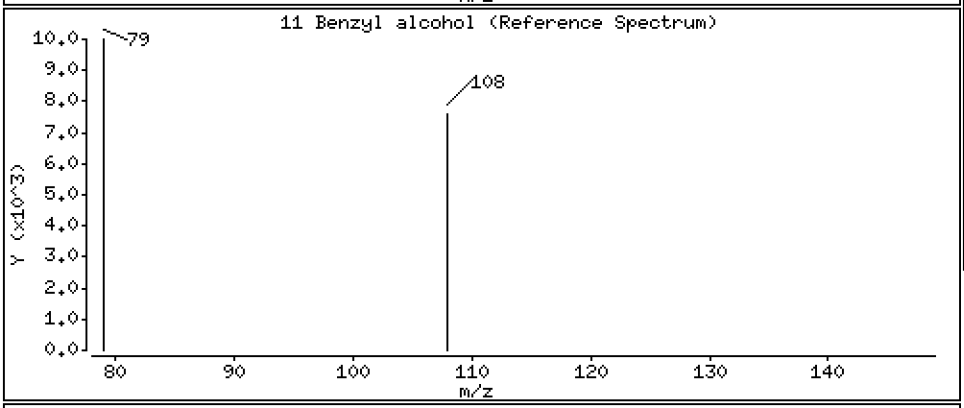
Concentration: 5.181 ug/L

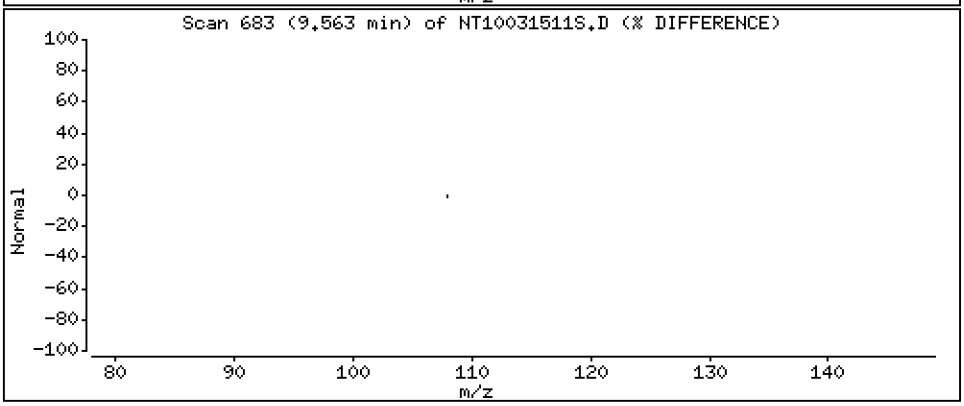












Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

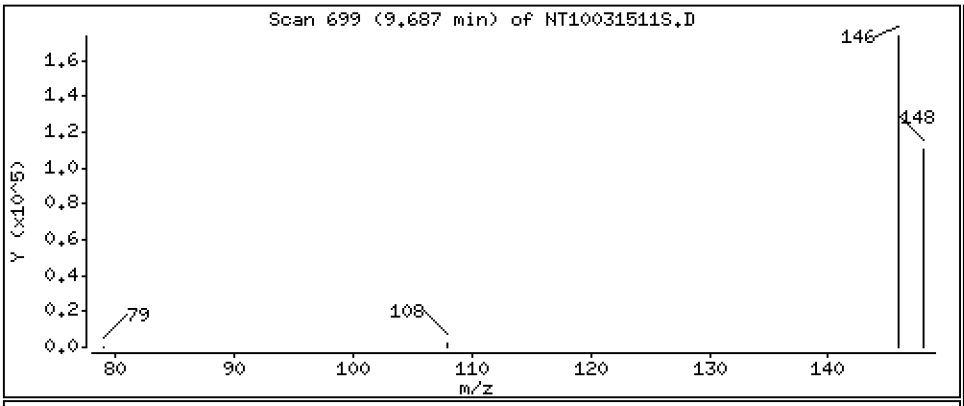
Operator: JGR

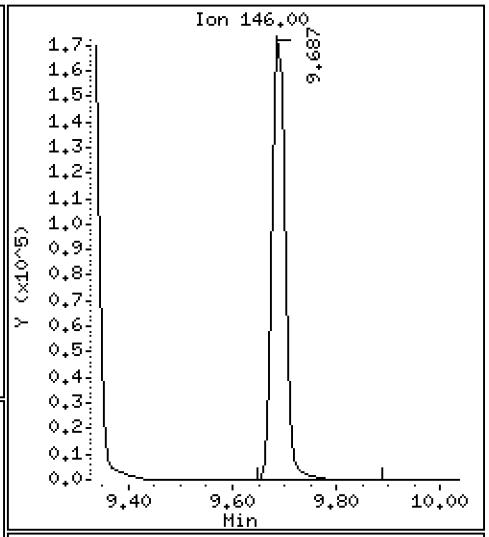
Column phase: ZB-5msi

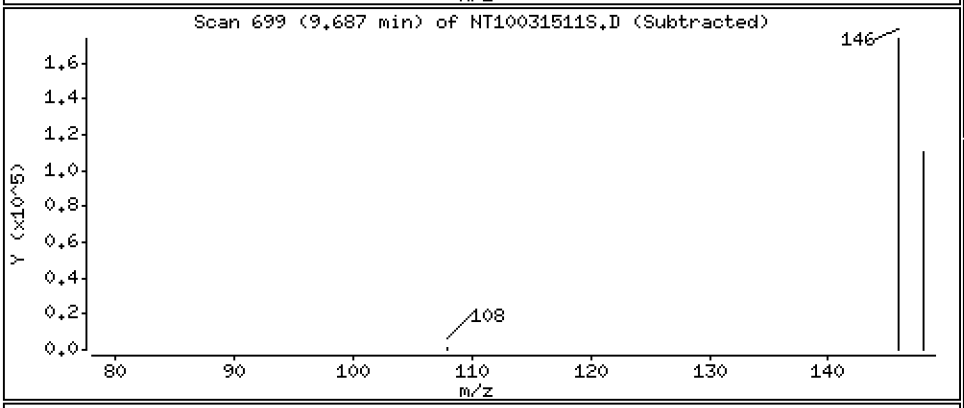
Column diameter: 0.25

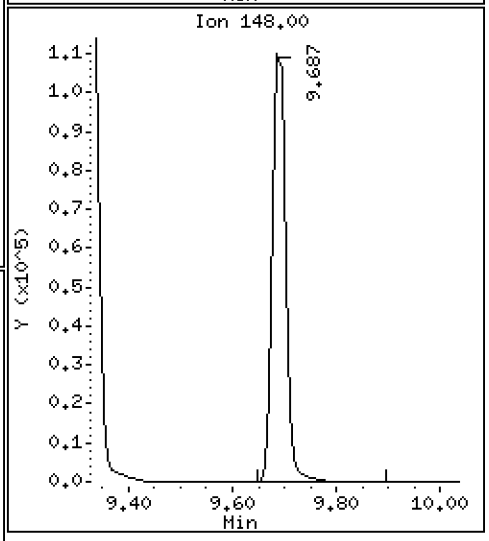
12 1,2-Dichlorobenzene

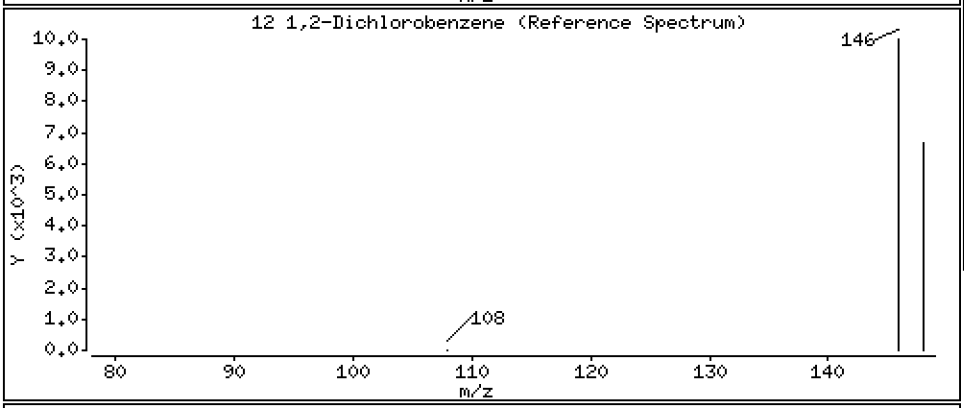
Concentration: 4.679 ug/L

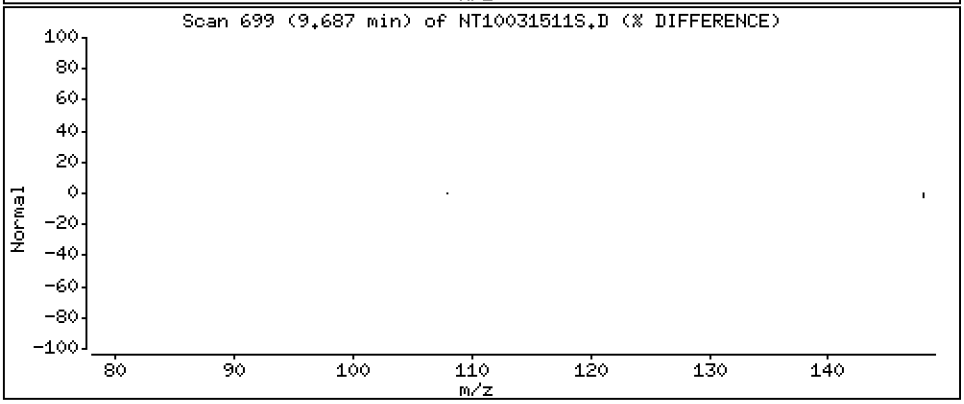












Date : 16-MAR-2023 02:16

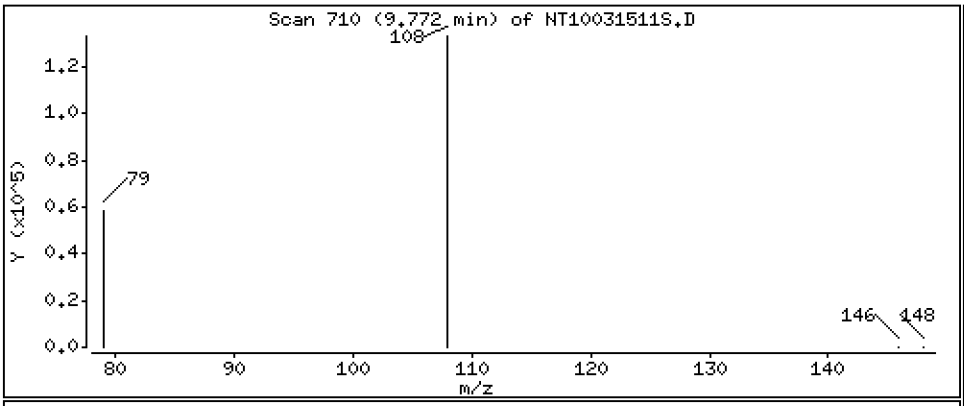
Client ID: Instrument: nt10.i

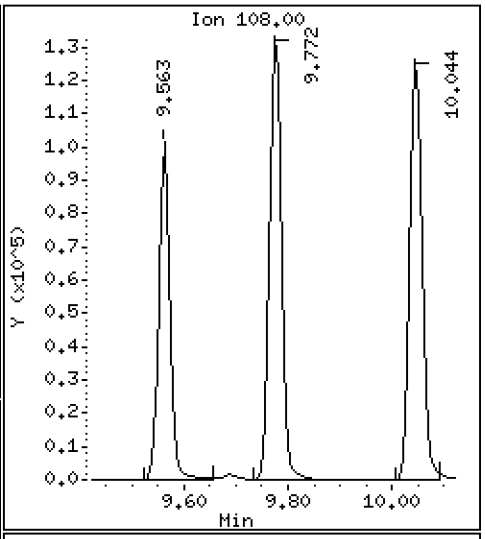
Sample Info: SLC0238-SCV1

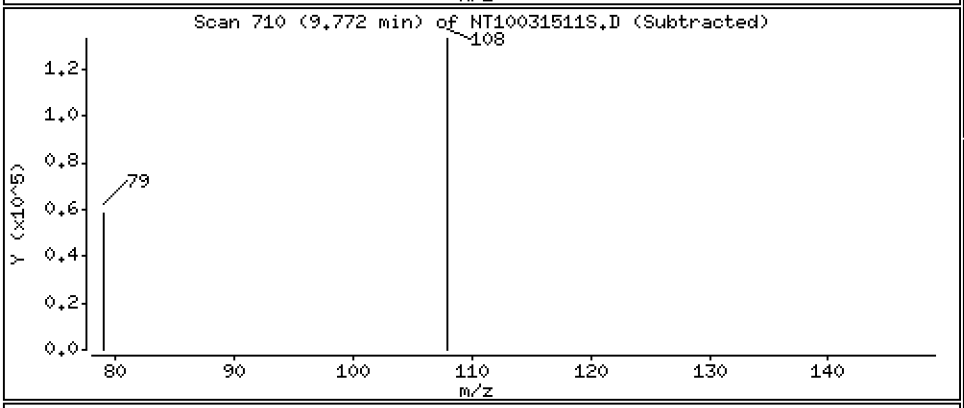
Volume Injected (uL): 1.0 Operator: JGR

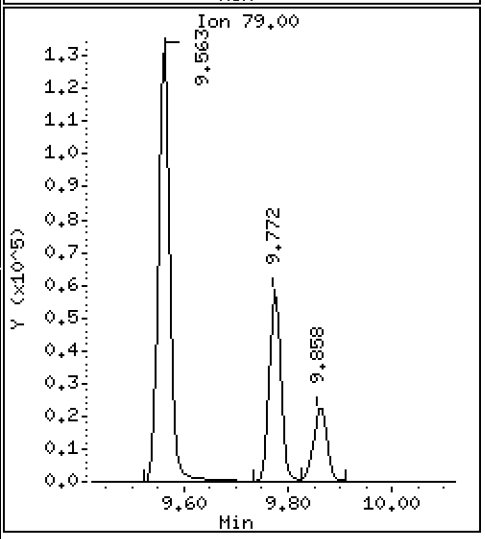
Column phase: ZB-5msi Column diameter: 0.25

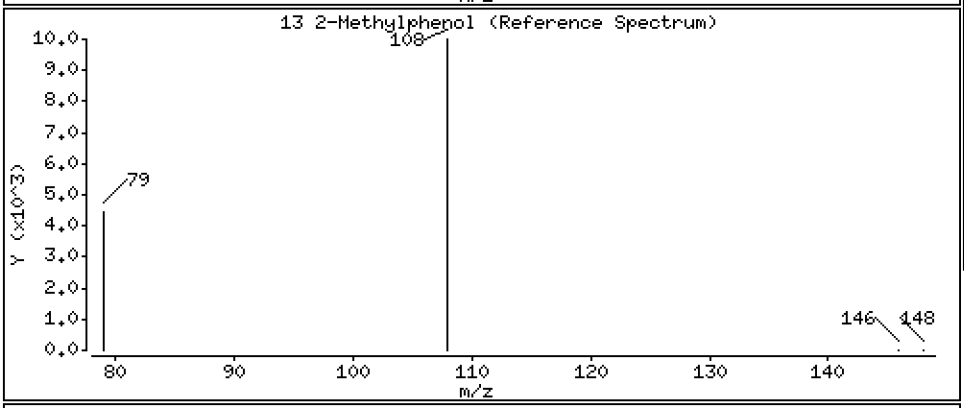
13 2-Methylphenol Concentration: 4.197 ug/L

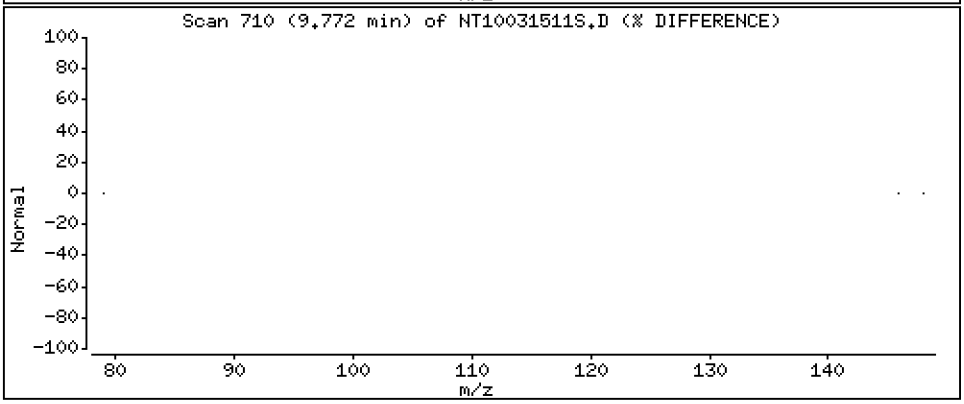












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

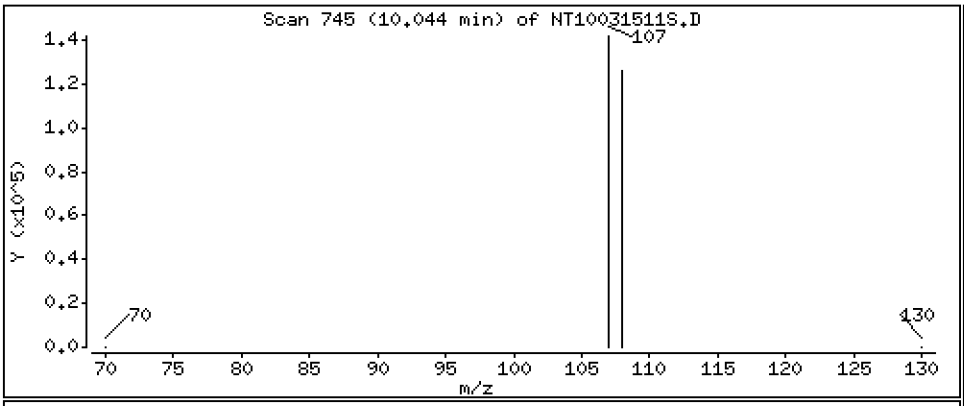
Operator: JGR

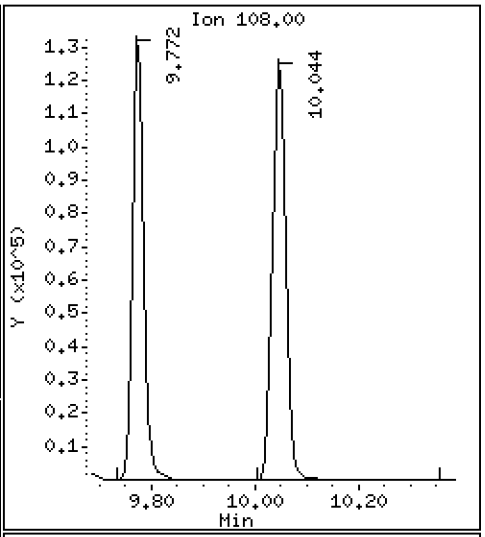
Column phase: ZB-5msi

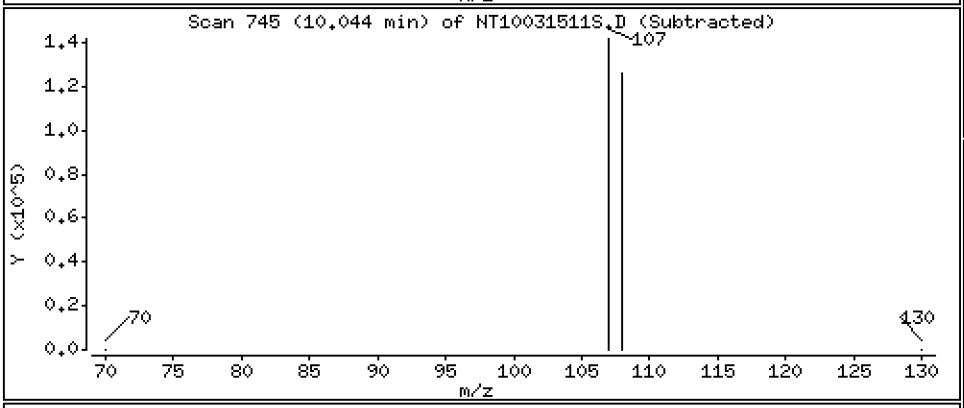
Column diameter: 0.25

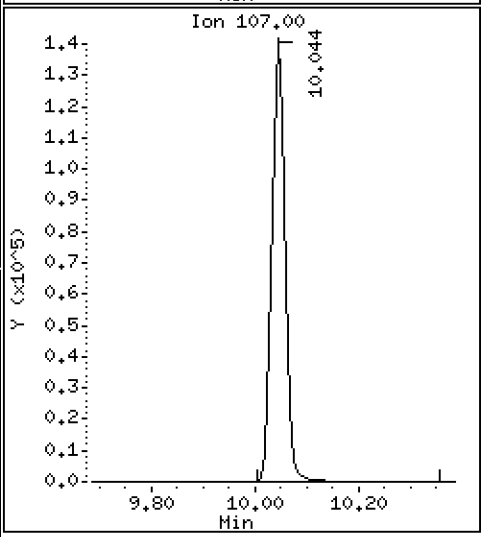
15 4-Methylphenol

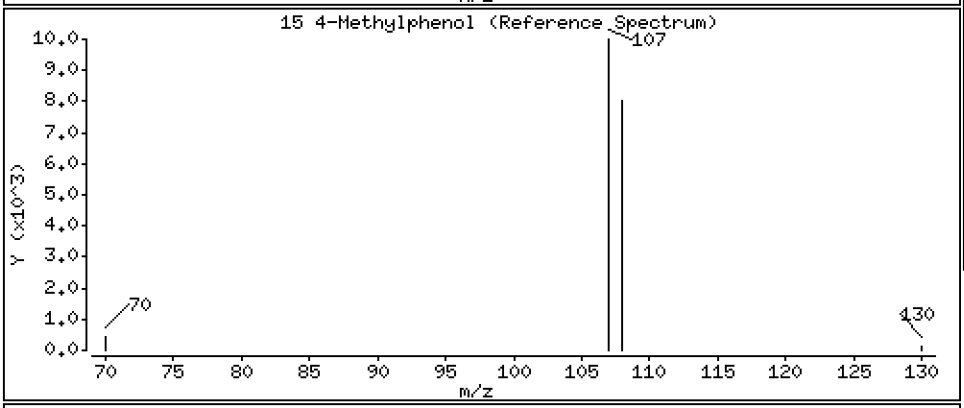
Concentration: 4.463 ug/L

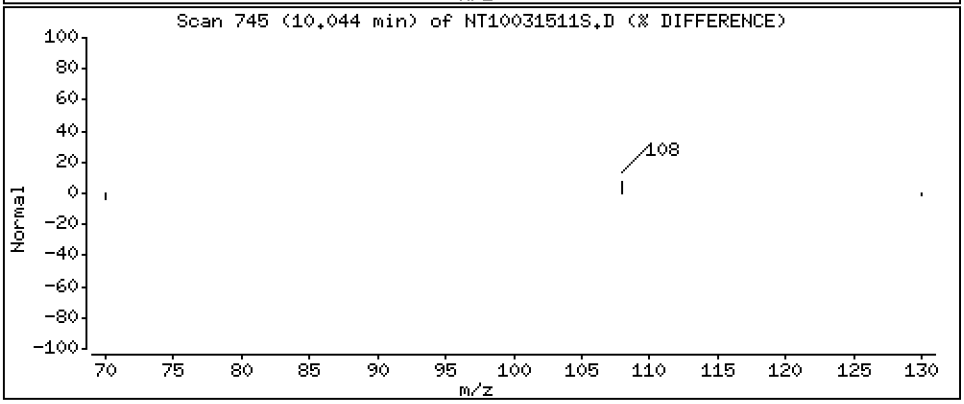












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

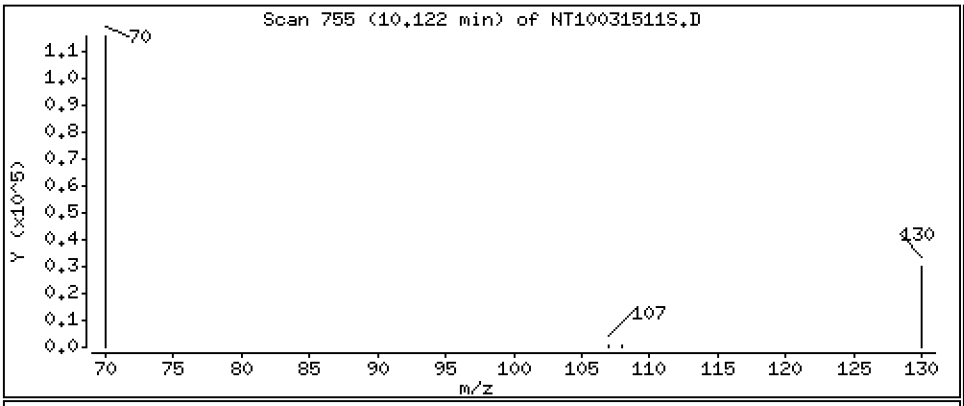
Operator: JGR

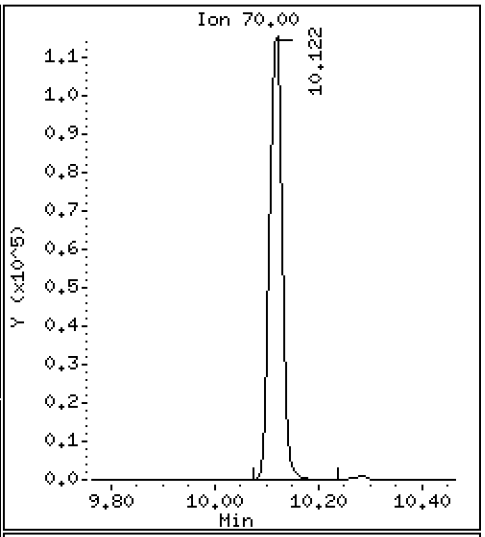
Column phase: ZB-5msi

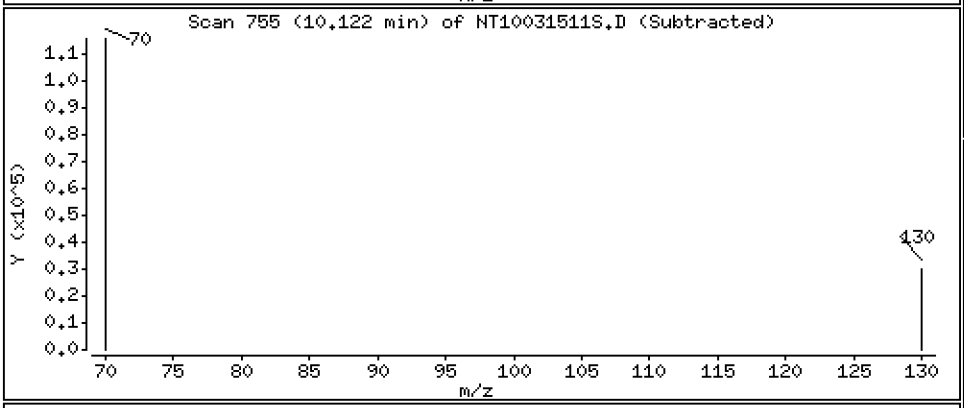
Column diameter: 0.25

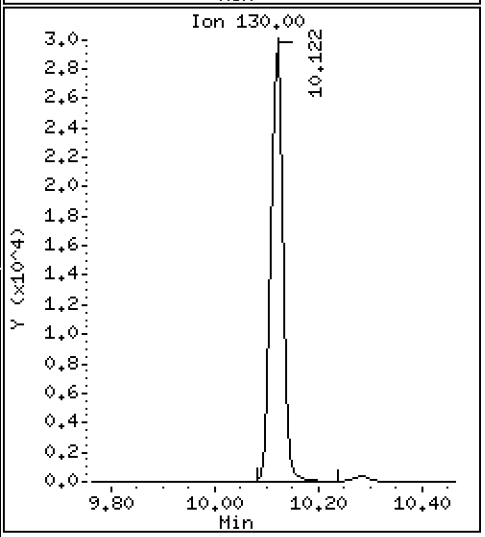
16 N-Nitroso-di-n-propylamine

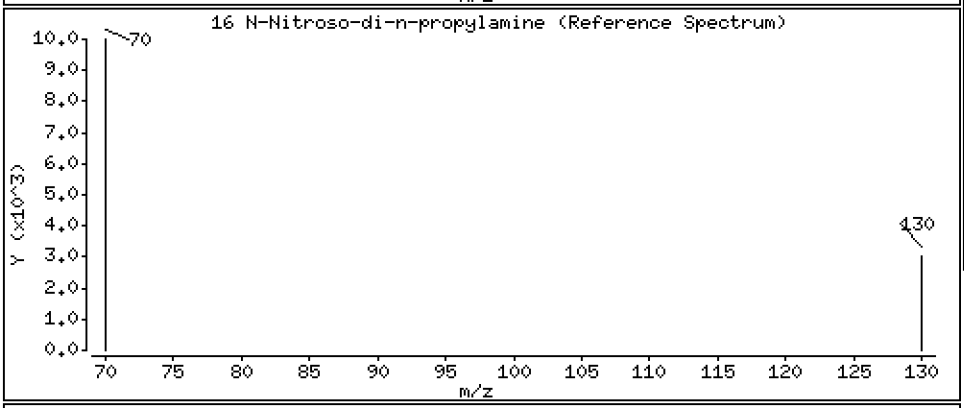
Concentration: 5.282 ug/L

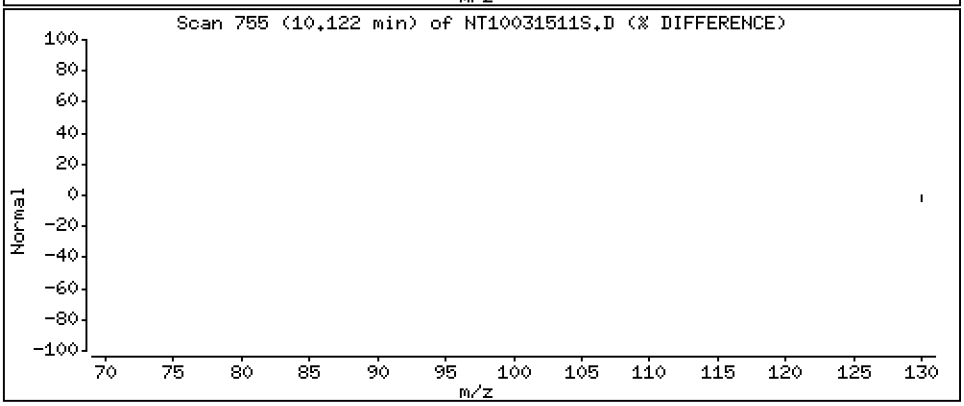












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

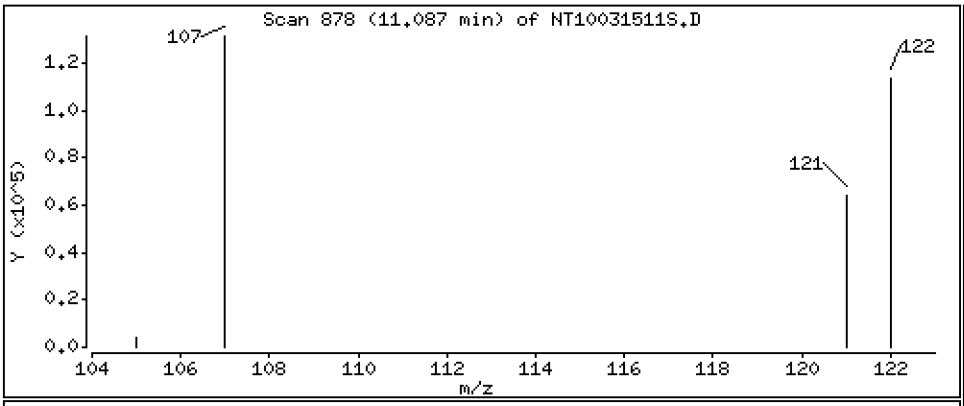
Operator: JGR

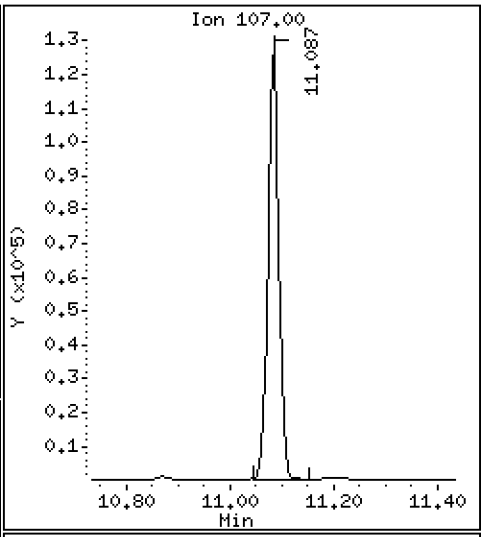
Column phase: ZB-5msi

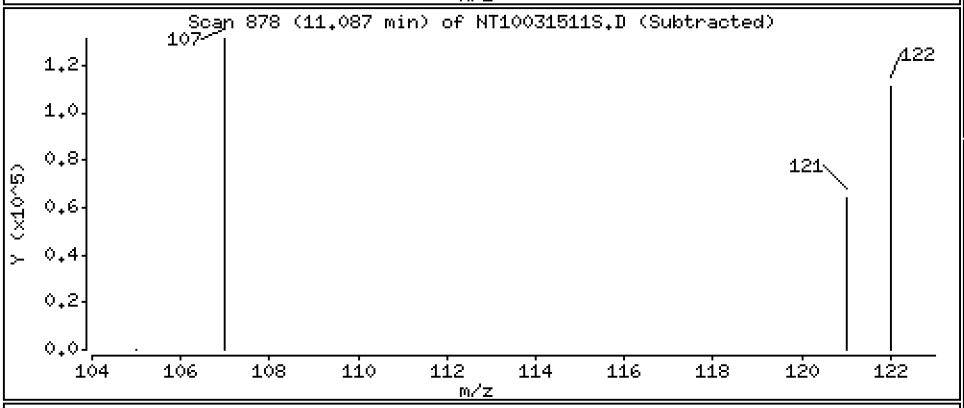
Column diameter: 0.25

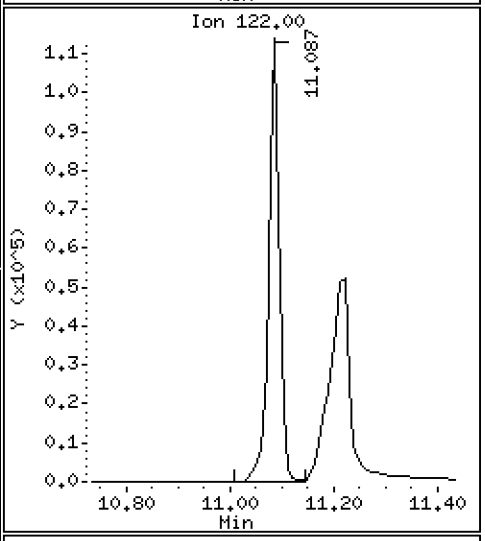
22 2,4-Dimethylphenol

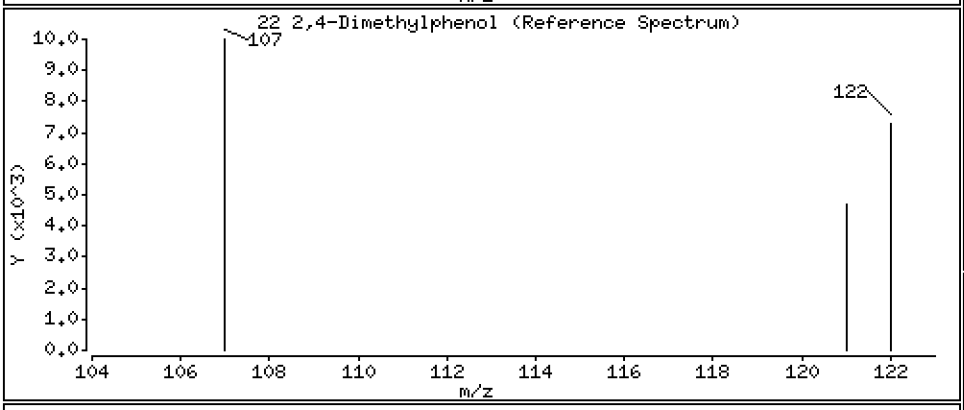
Concentration: 3.660 ug/L

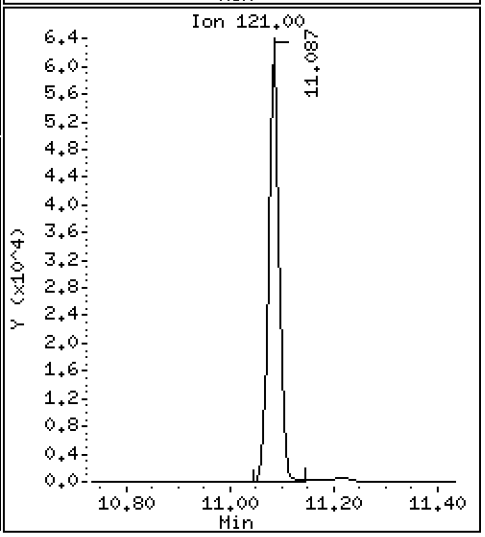


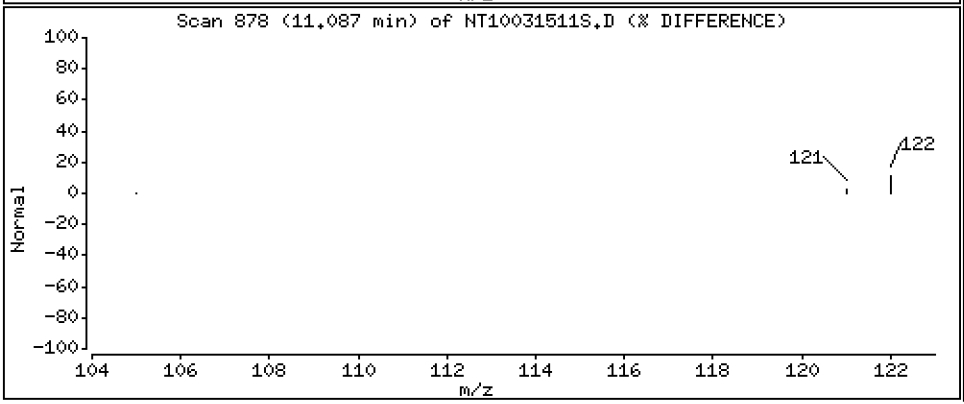












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

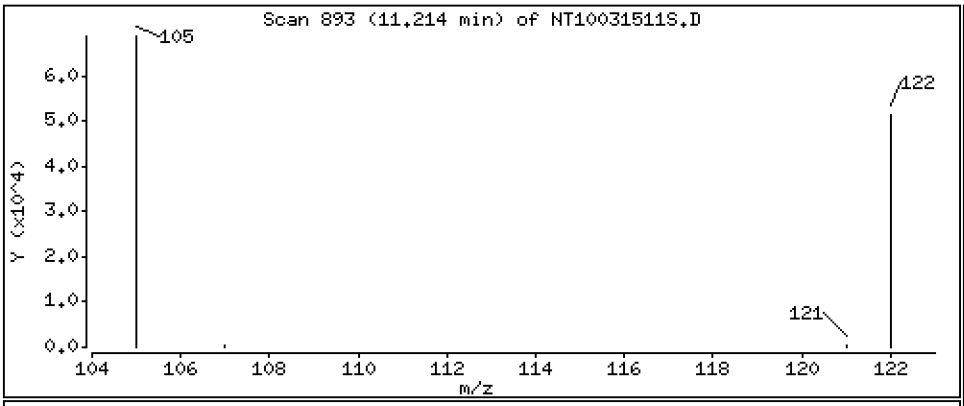
Operator: JGR

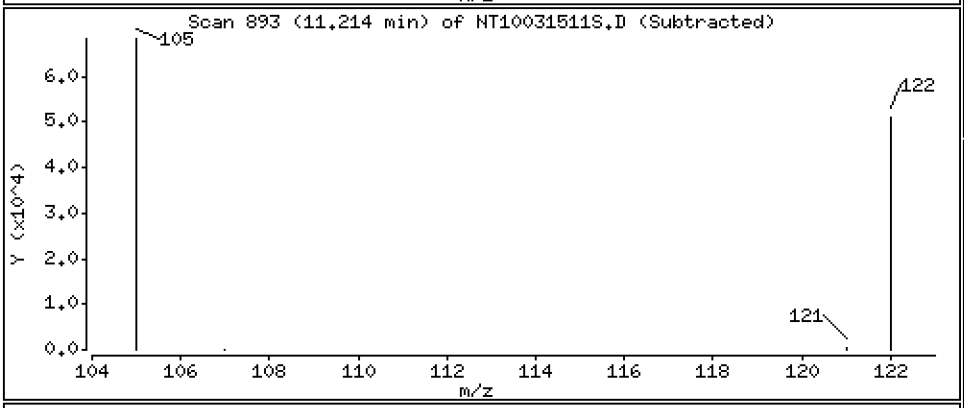
Column phase: ZB-5msi

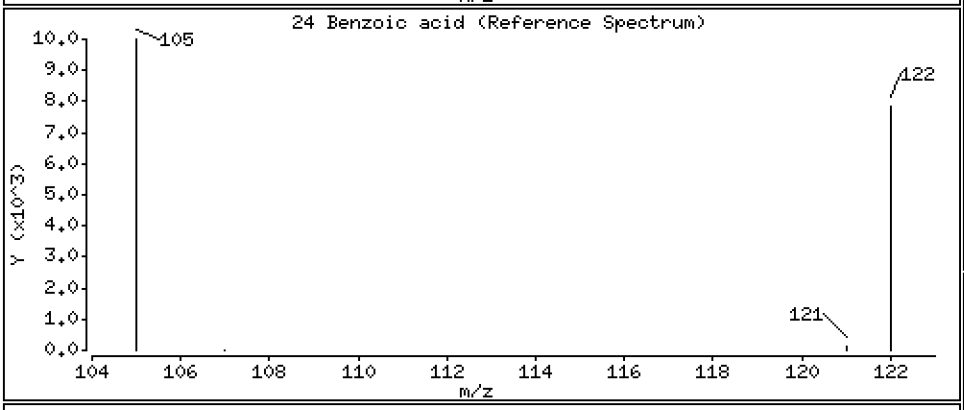
Column diameter: 0.25

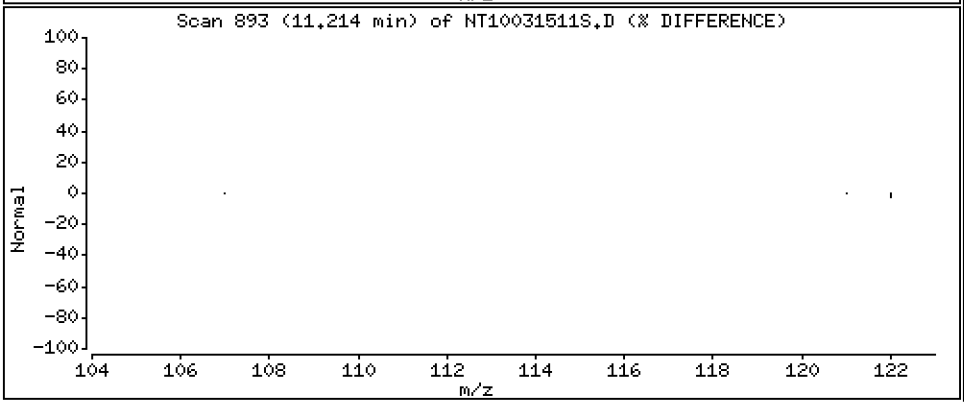
24 Benzoic acid

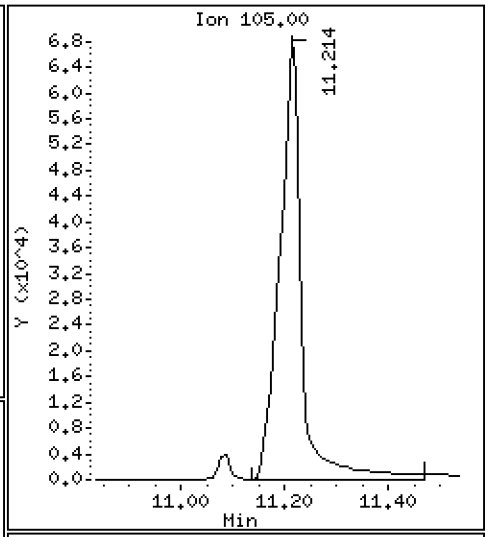
Concentration: 6.746 ug/L

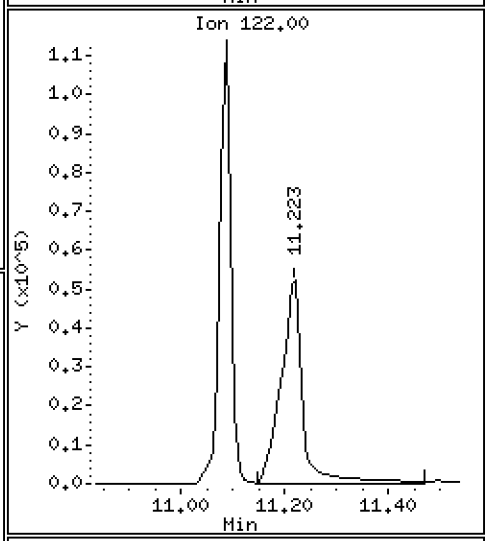


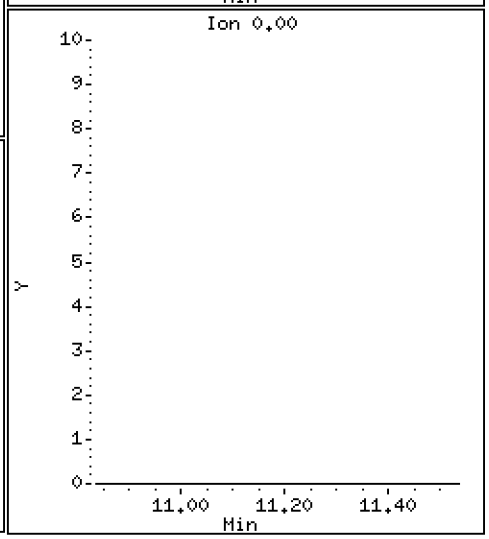












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

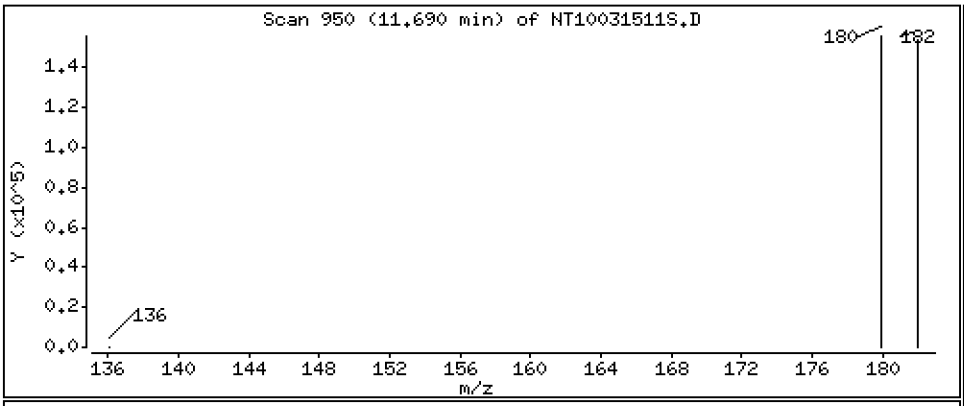
Operator: JGR

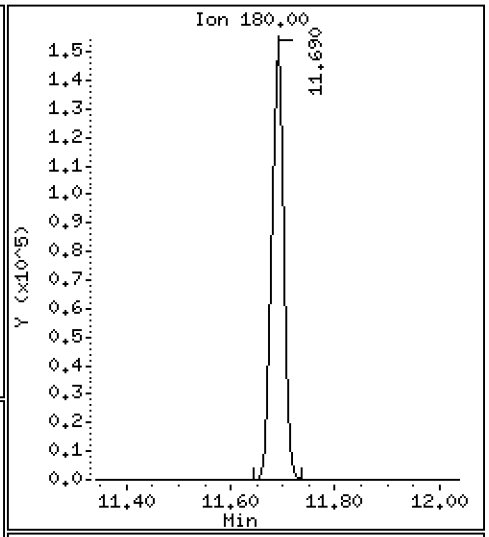
Column phase: ZB-5msi

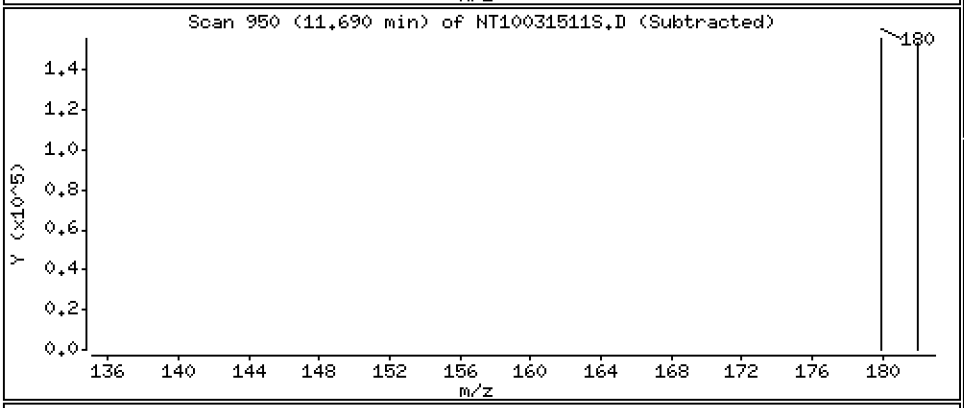
Column diameter: 0.25

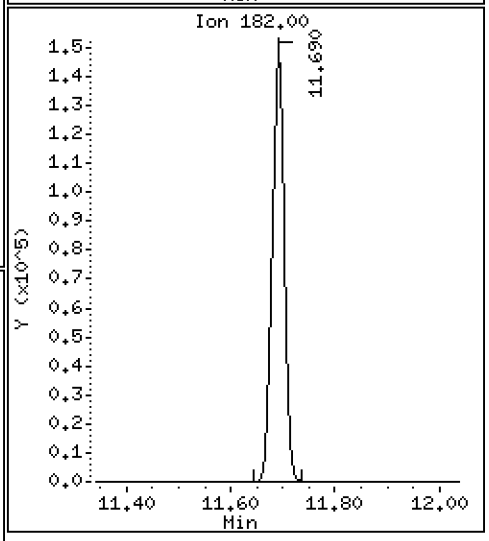
26 1,2,4-Trichlorobenzene

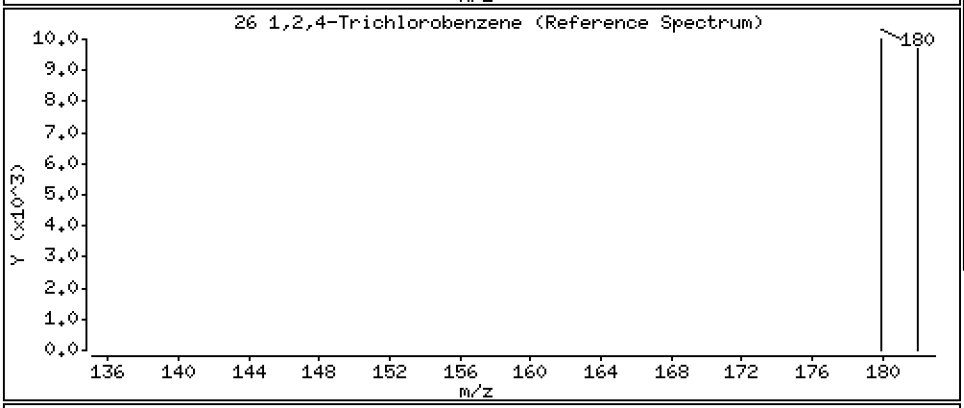
Concentration: 4.445 ug/L

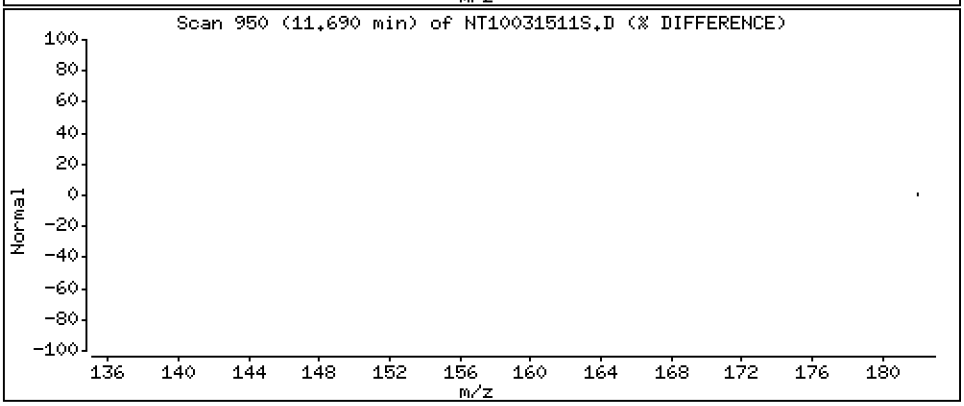












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

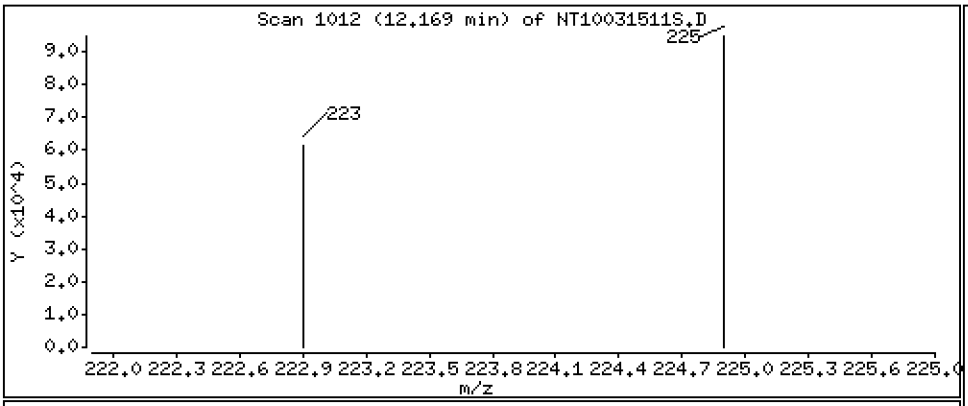
Operator: JGR

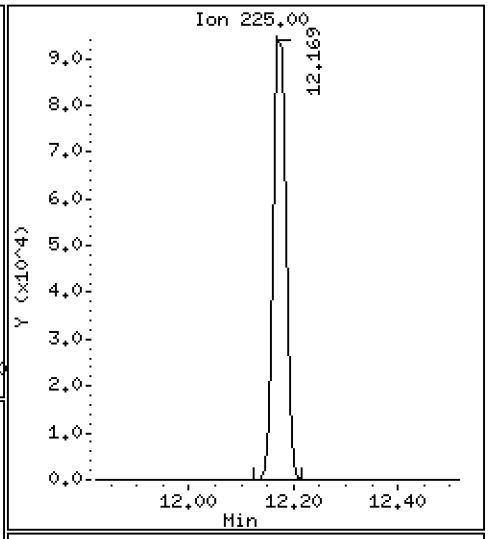
Column phase: ZB-5msi

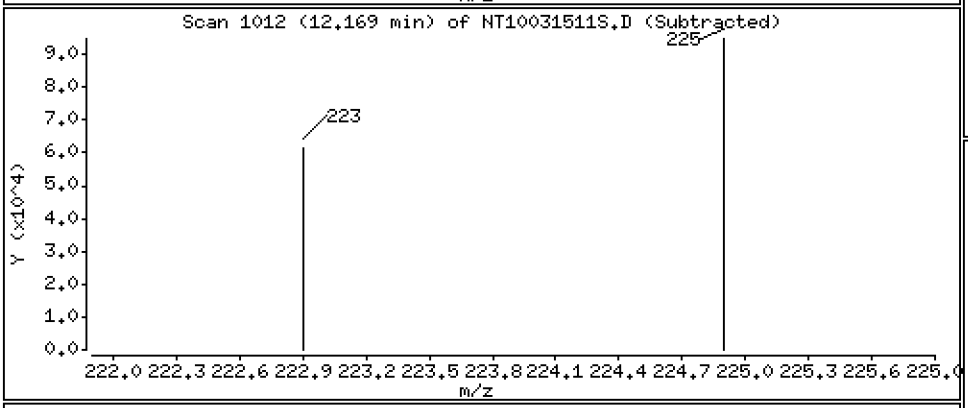
Column diameter: 0.25

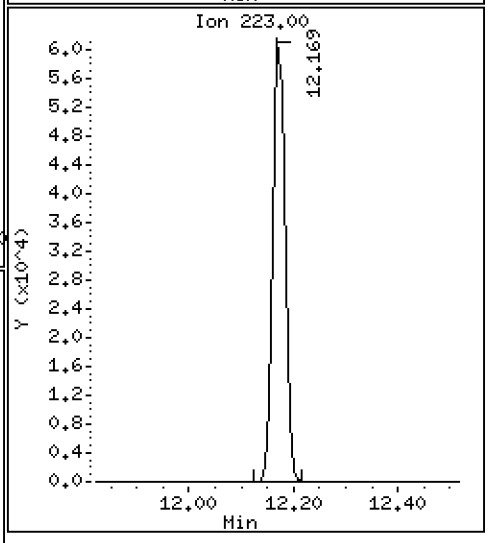
30 Hexachlorobutadiene

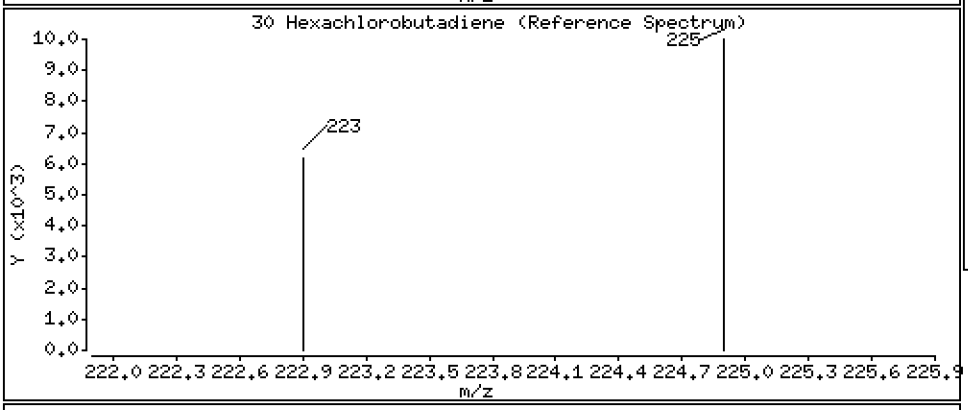
Concentration: 4.653 ug/L

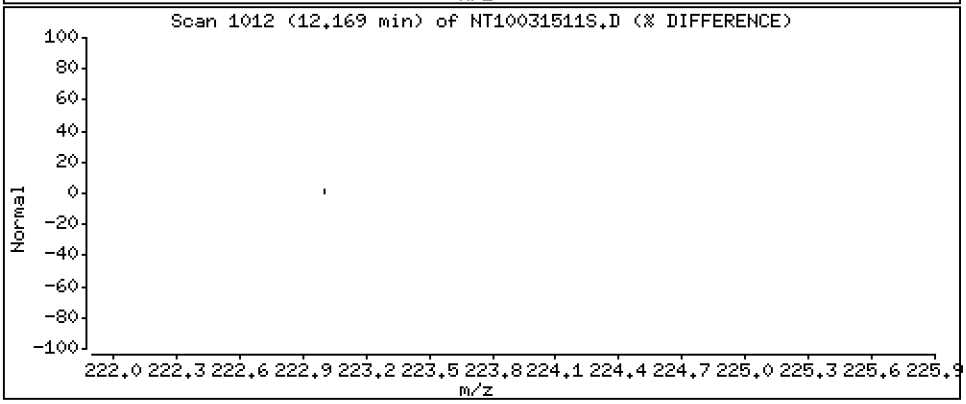












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

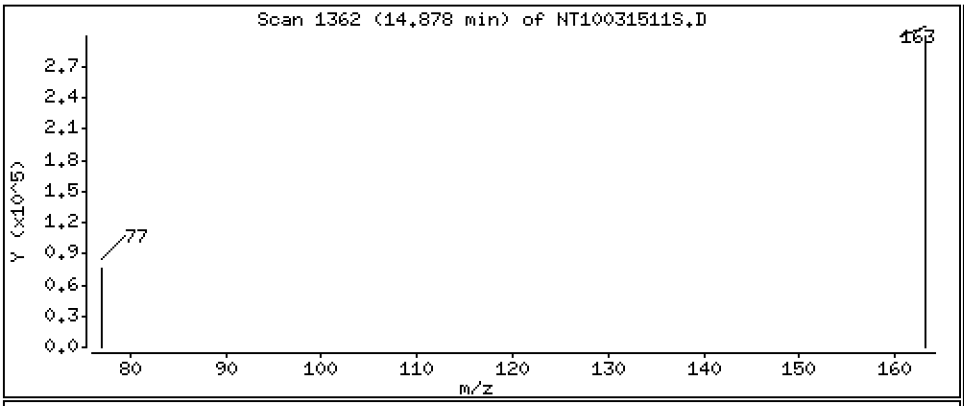
Operator: JGR

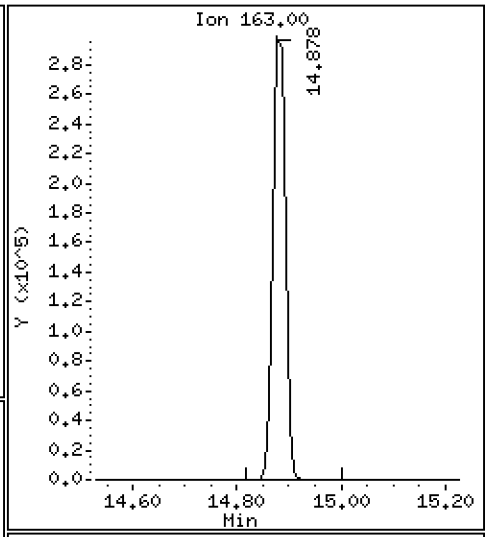
Column phase: ZB-5msi

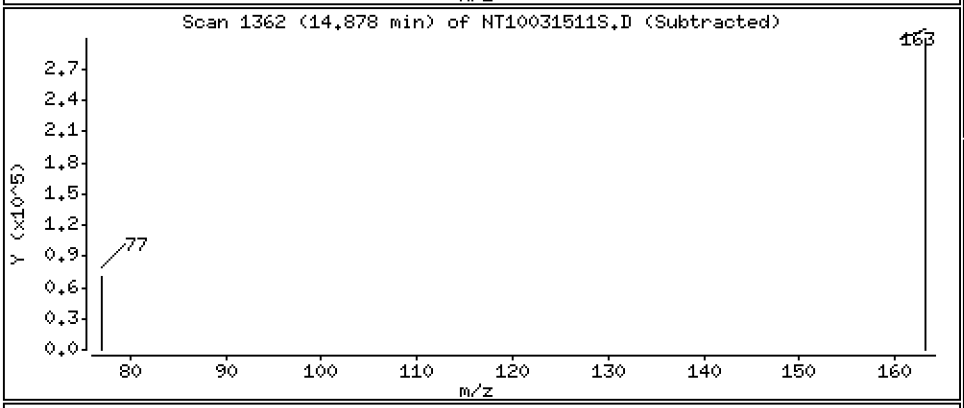
Column diameter: 0.25

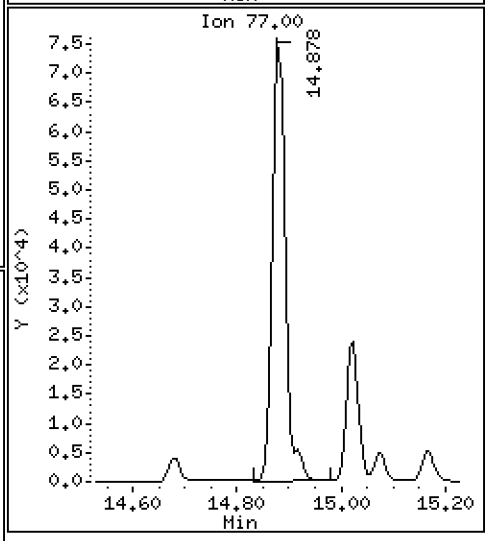
39 Dimethylphthalate

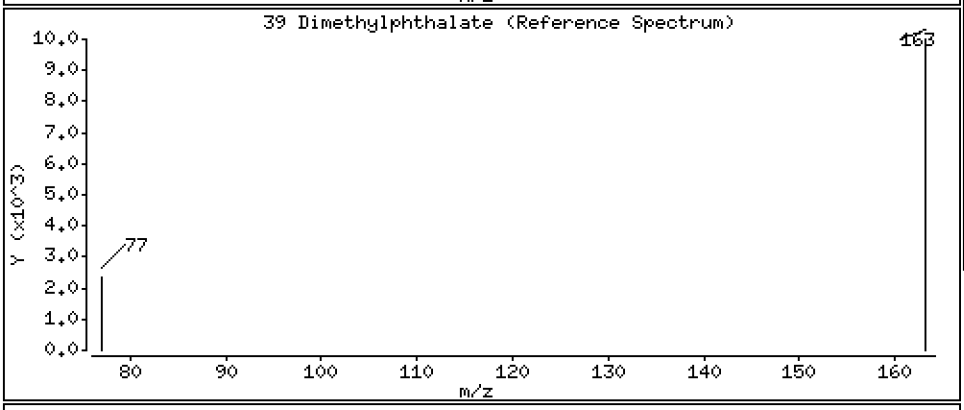
Concentration: 4.948 ug/L

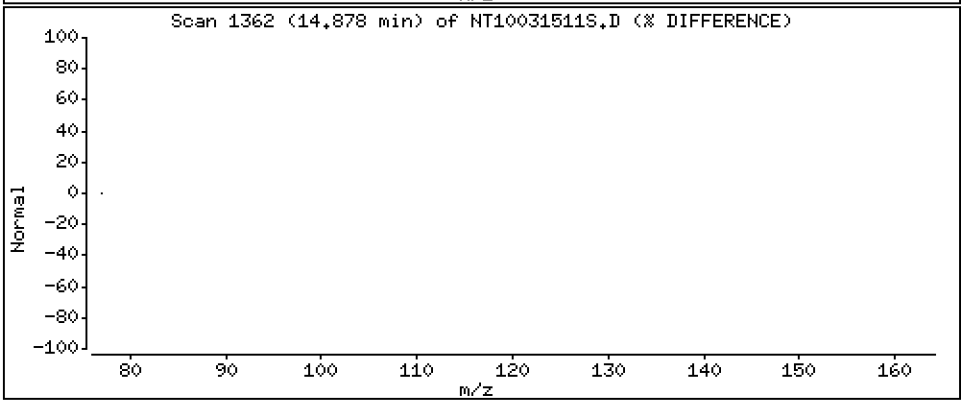












Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

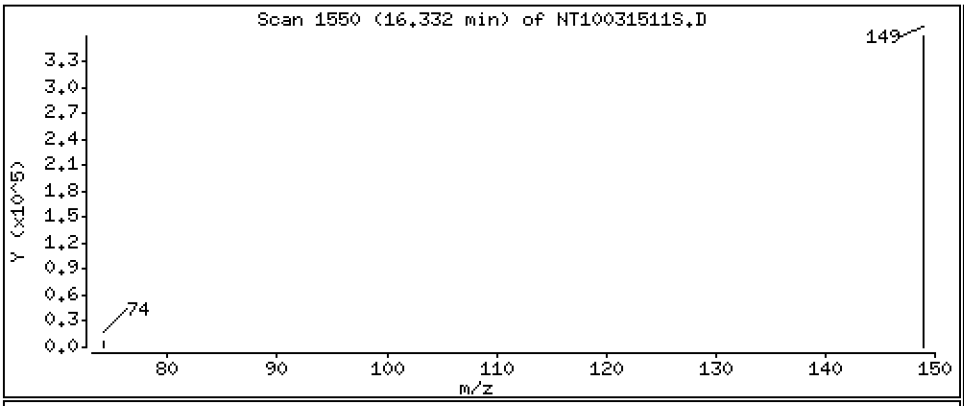
Operator: JGR

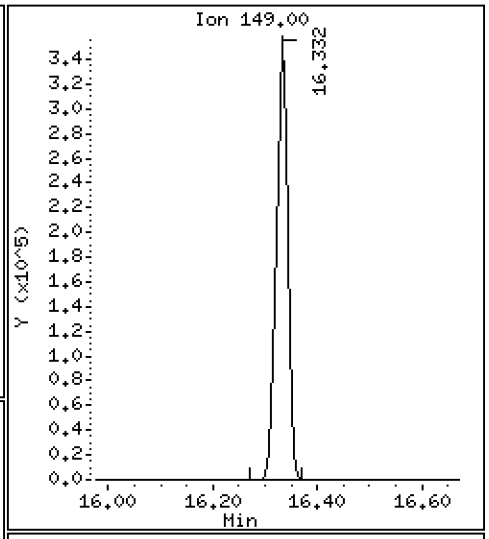
Column phase: ZB-5msi

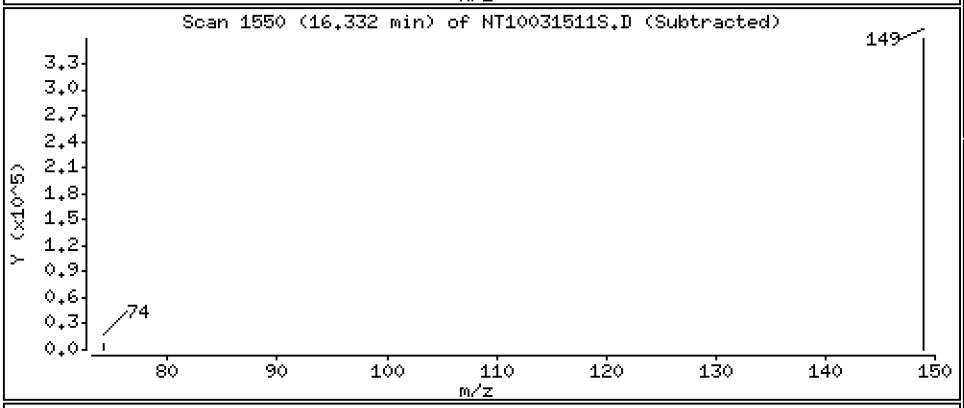
Column diameter: 0.25

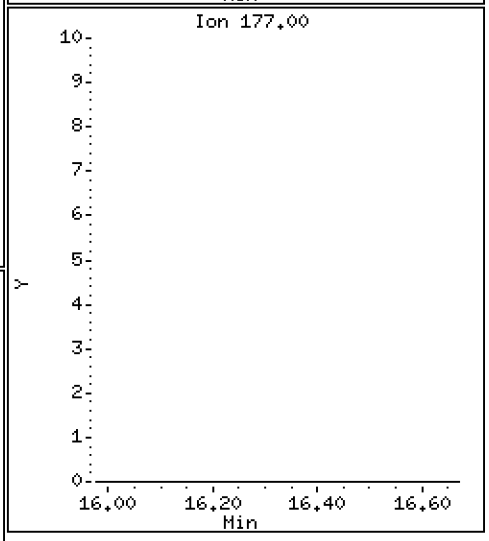
50 Diethylphthalate

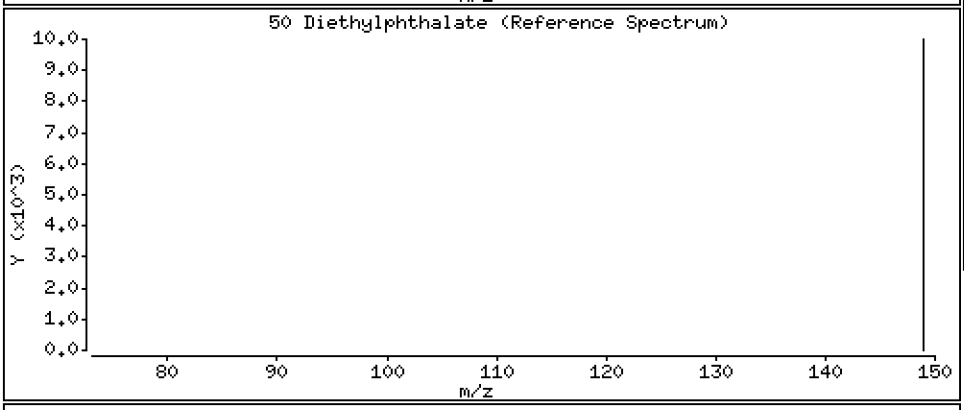
Concentration: 5.364 ug/L

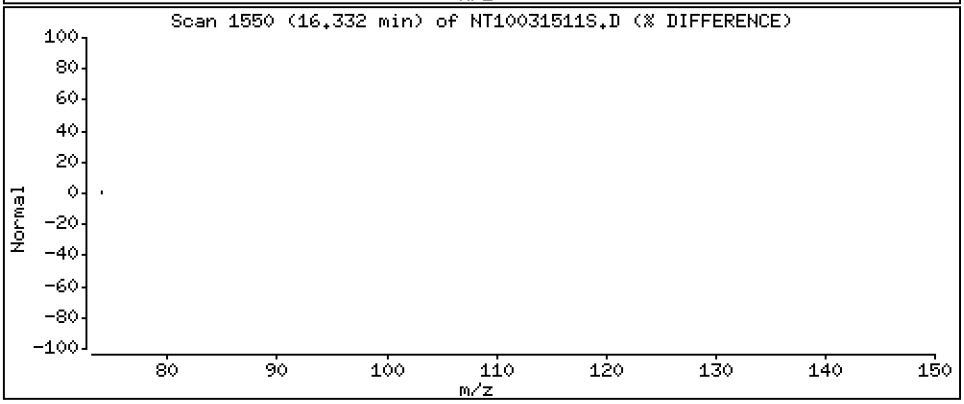












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

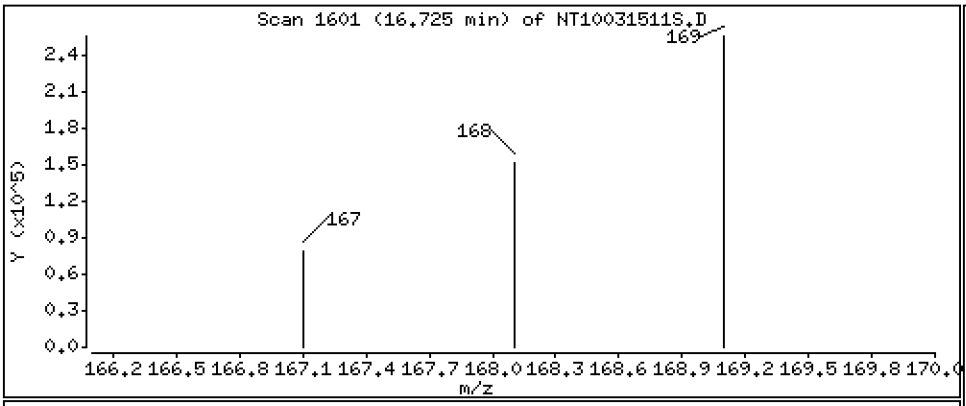
Operator: JGR

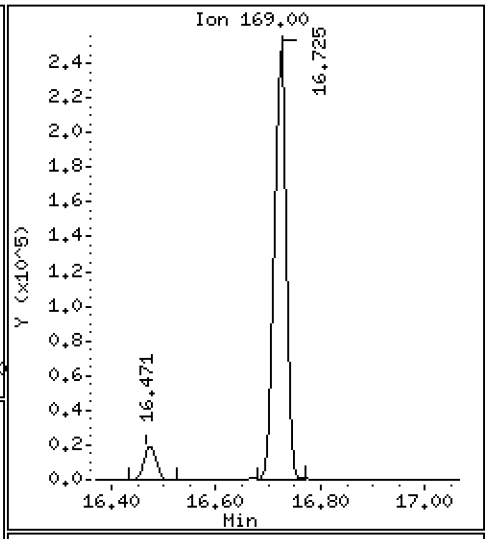
Column phase: ZB-5msi

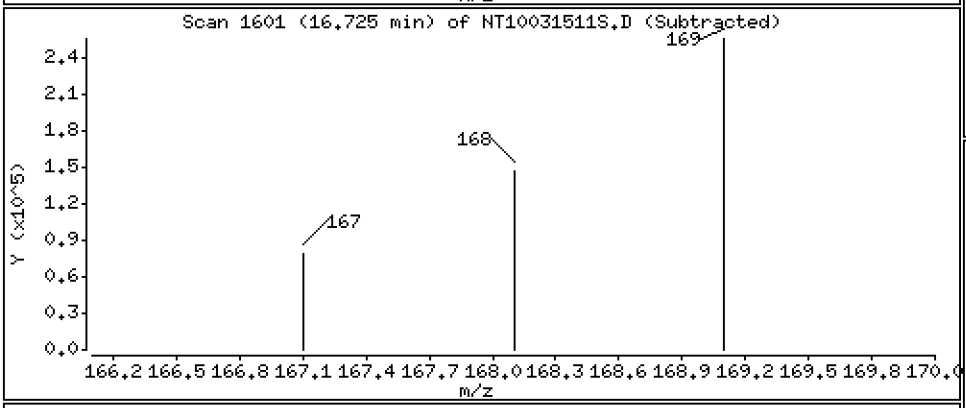
Column diameter: 0.25

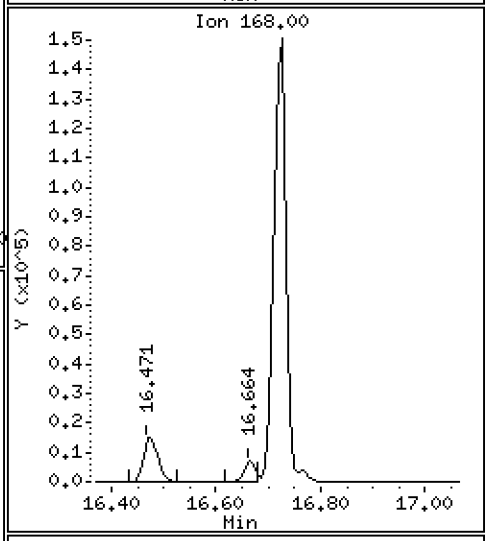
54 N-Nitrosodiphenylamine

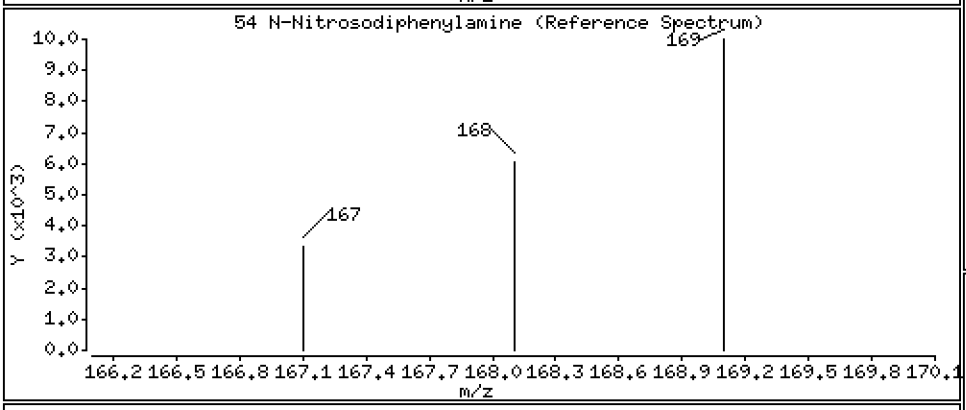
Concentration: 5.080 ug/L

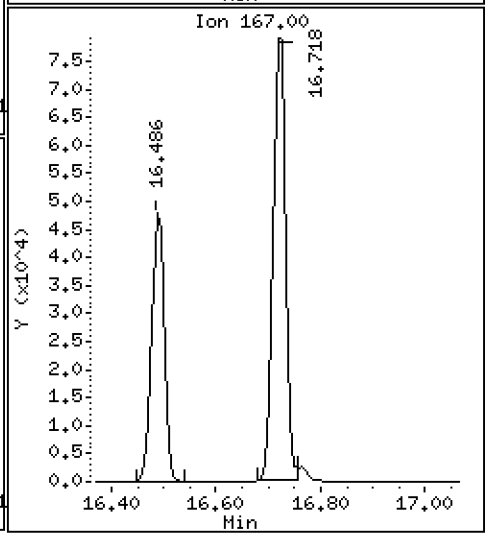


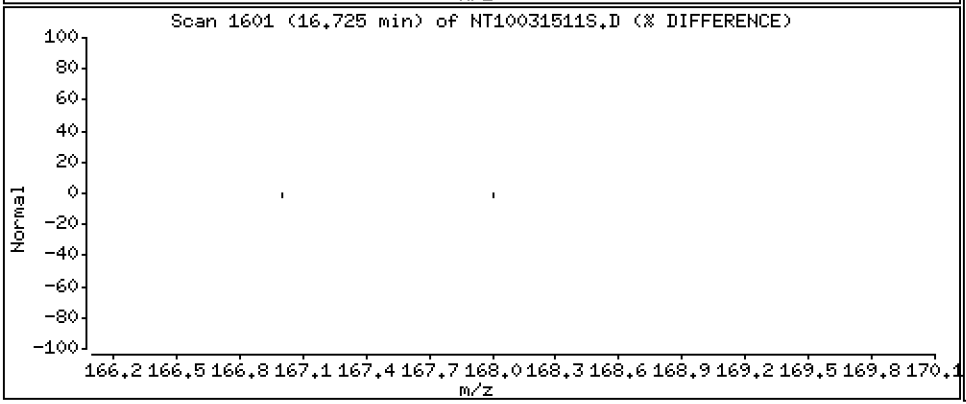












Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

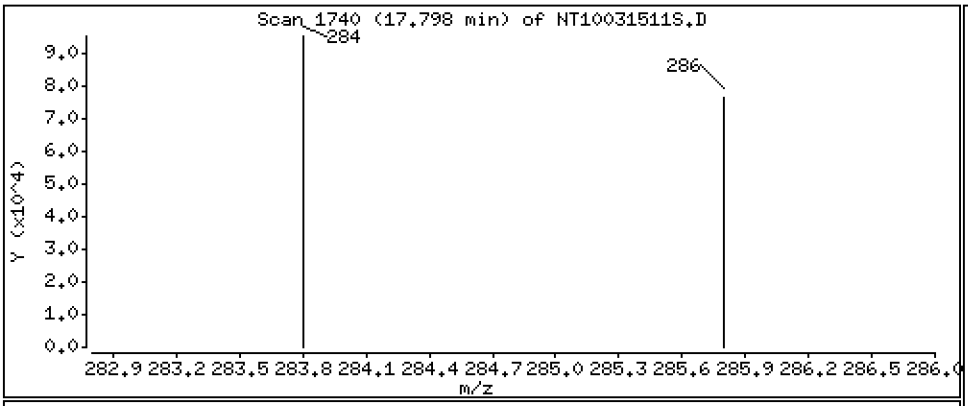
Operator: JGR

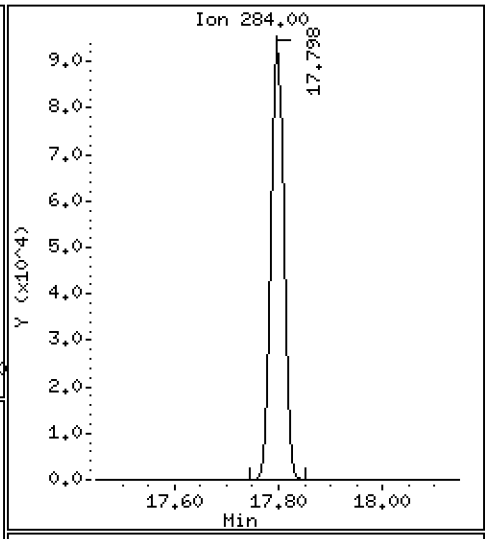
Column phase: ZB-5msi

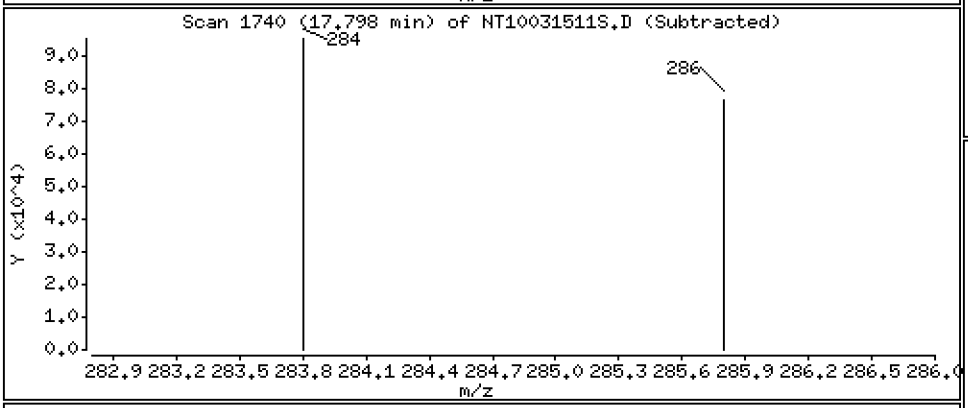
Column diameter: 0.25

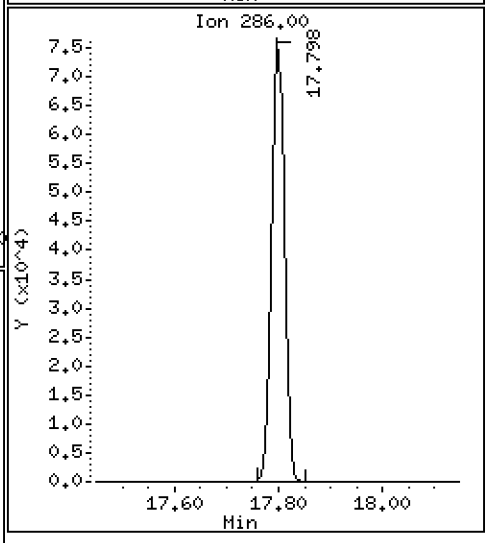
57 Hexachlorobenzene

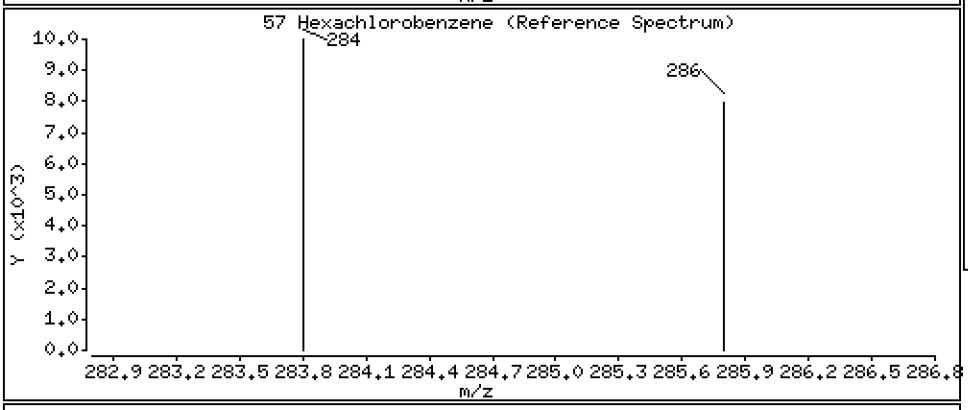
Concentration: 4.614 ug/L

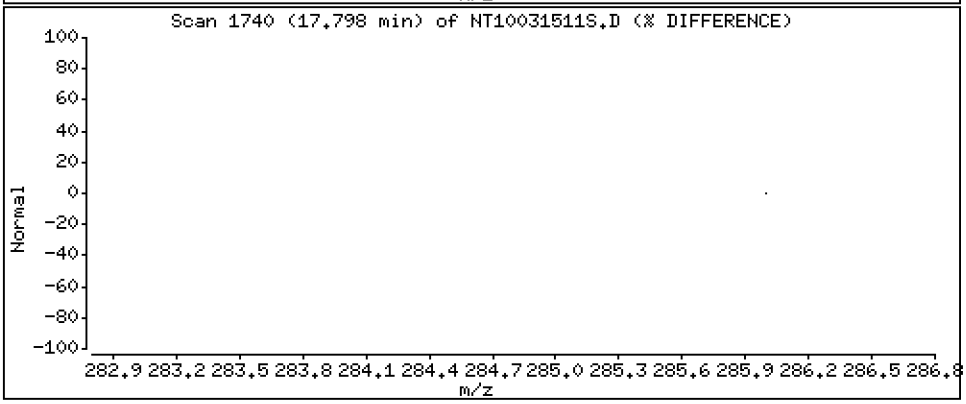












Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

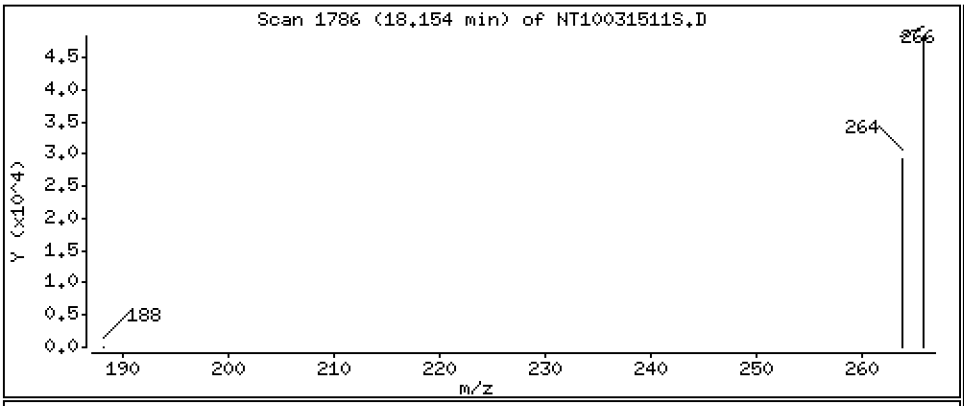
Operator: JGR

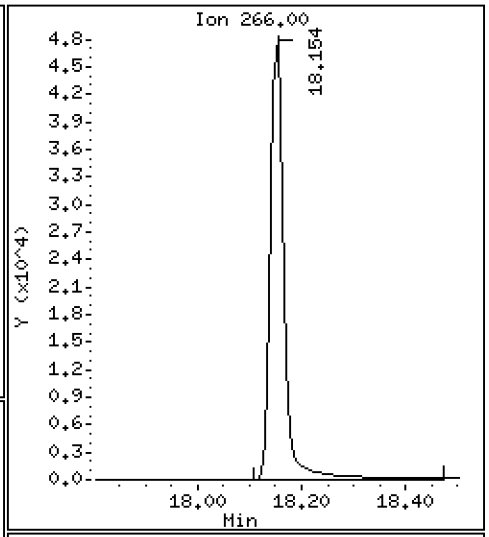
Column phase: ZB-5msi

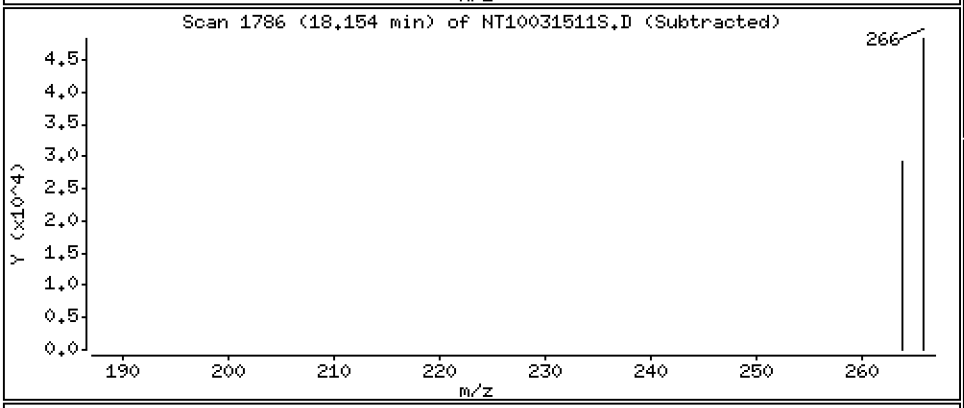
Column diameter: 0.25

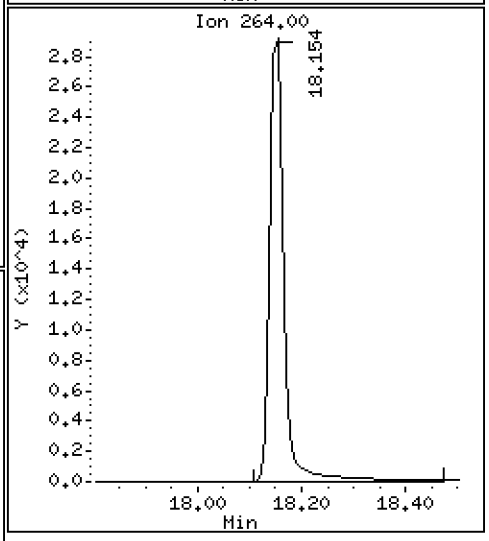
58 Pentachlorophenol

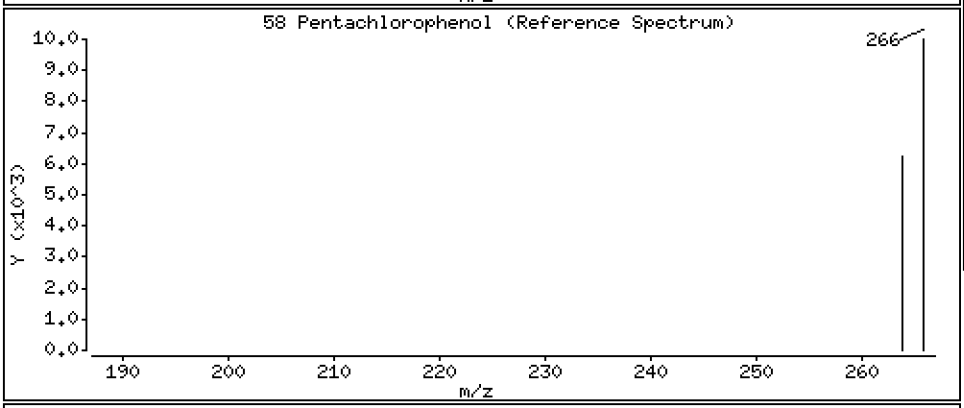
Concentration: 4.418 ug/L

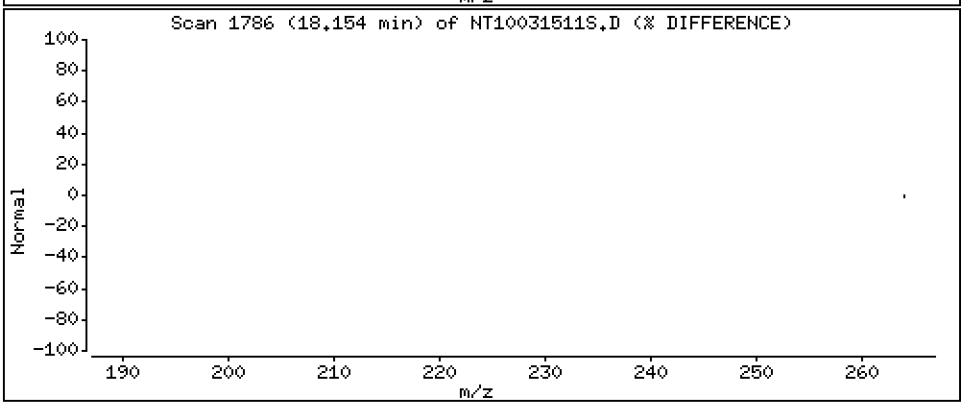












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

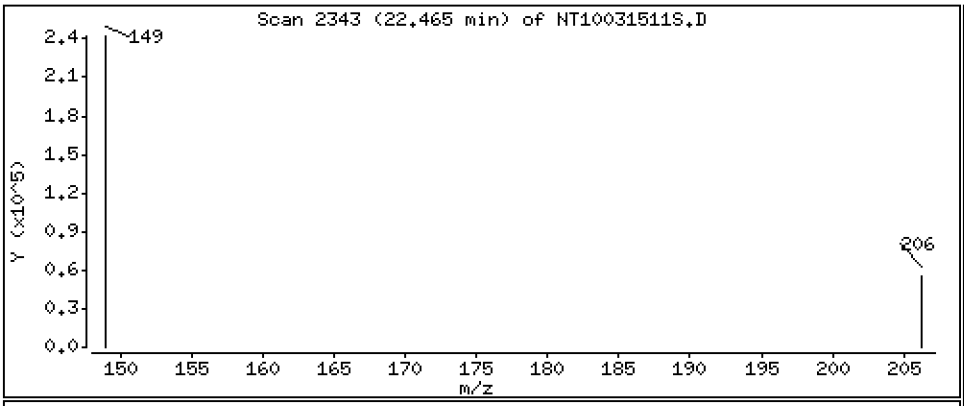
Operator: JGR

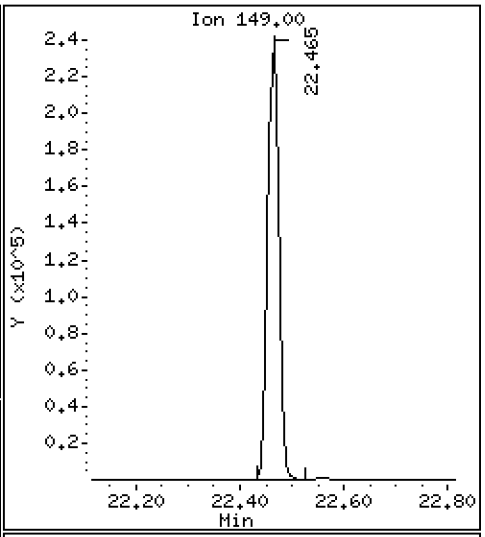
Column phase: ZB-5msi

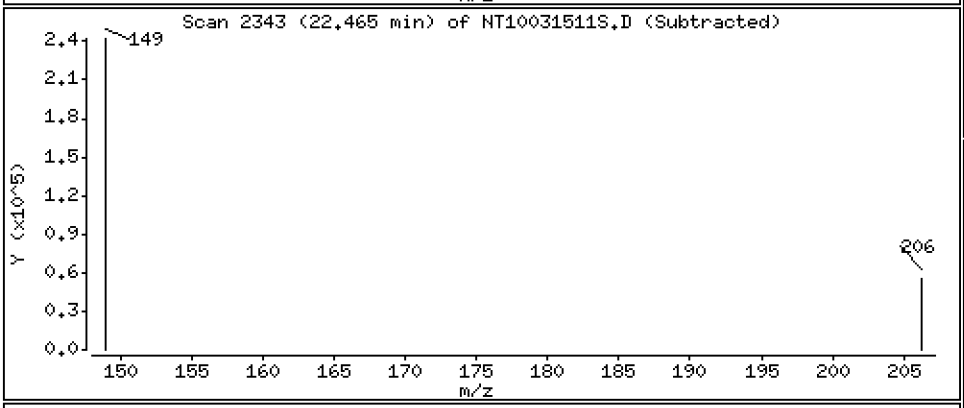
Column diameter: 0.25

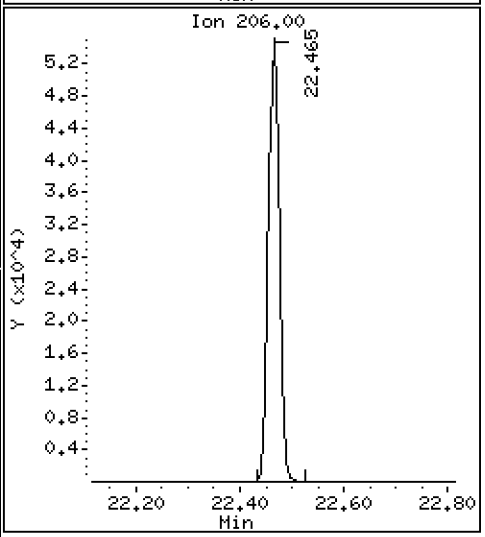
67 Butylbenzylphthalate

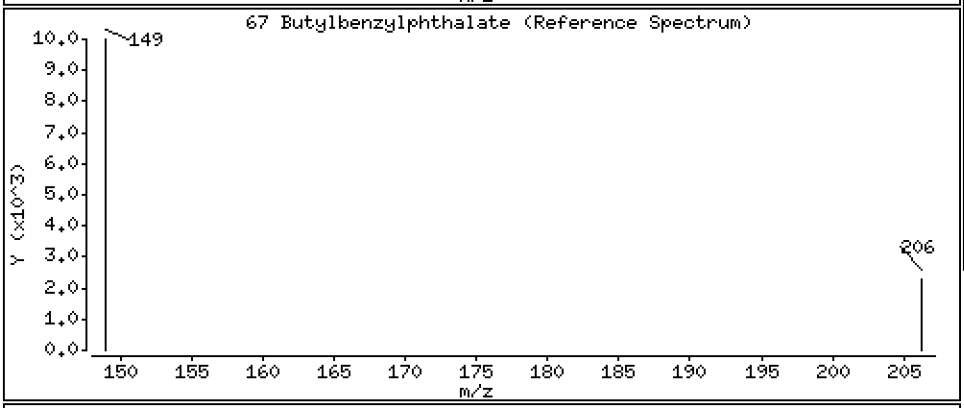
Concentration: 5.121 ug/L

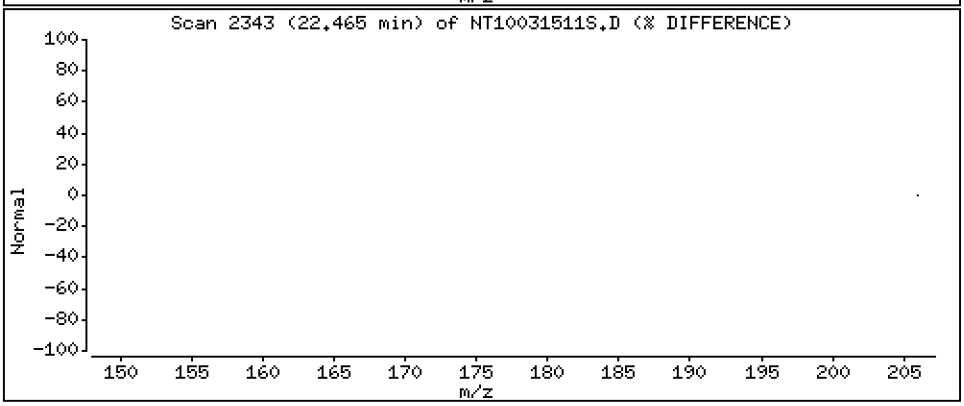












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

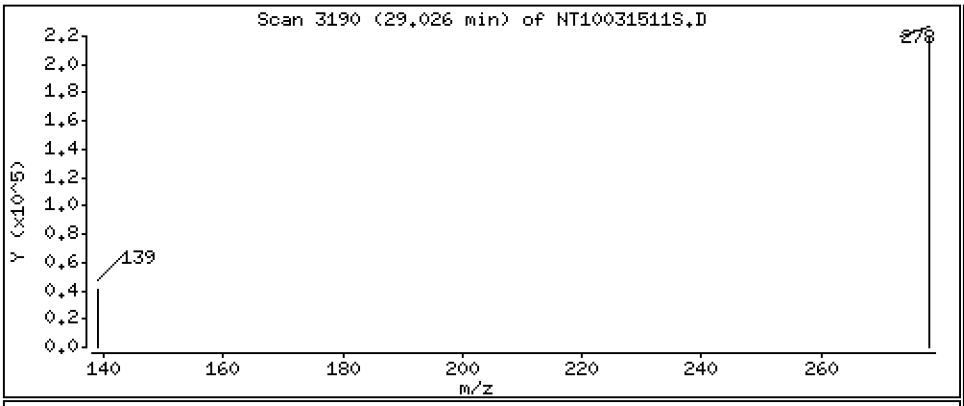
Operator: JGR

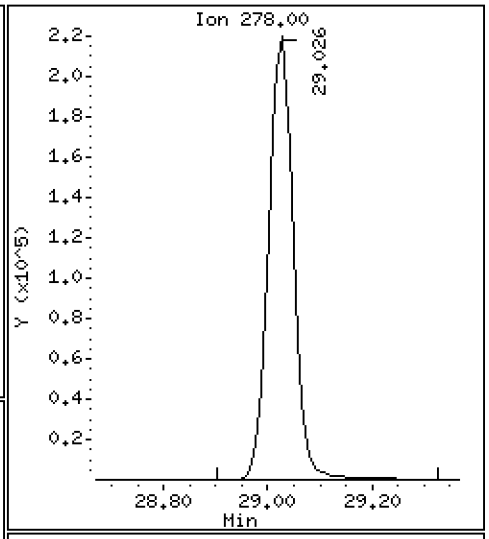
Column phase: ZB-5msi

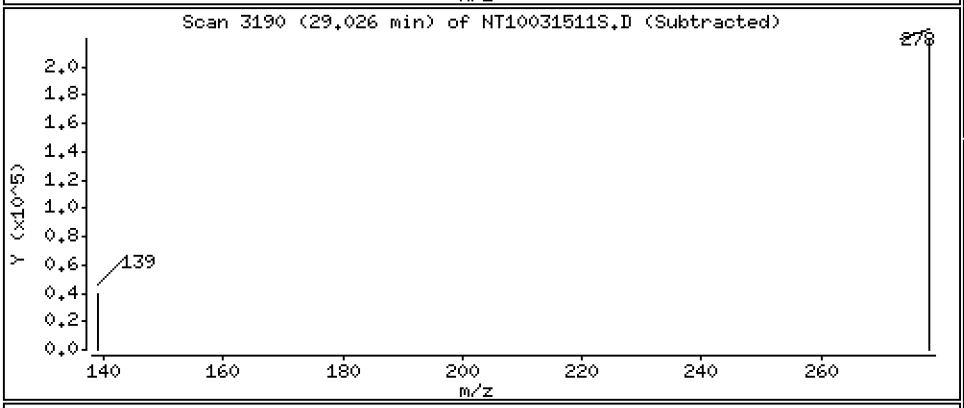
Column diameter: 0.25

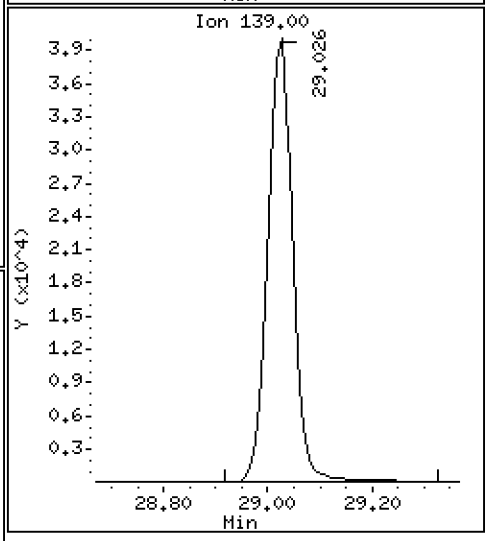
79 Dibenzo(a,h)anthracene

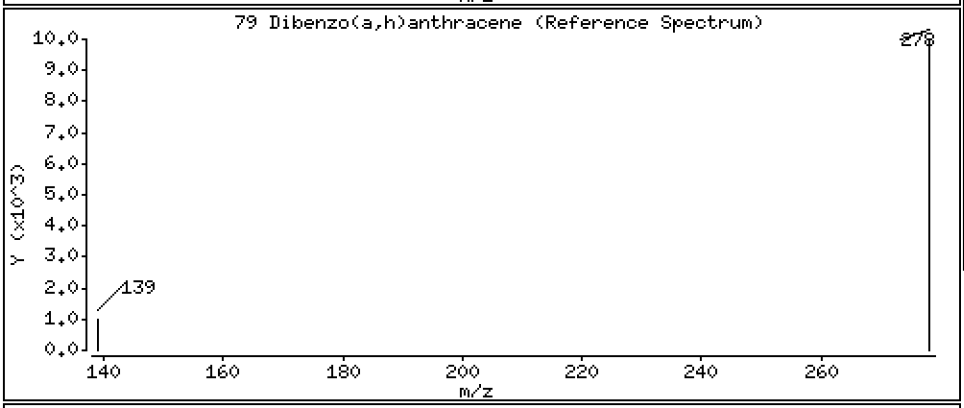
Concentration: 4.238 ug/L

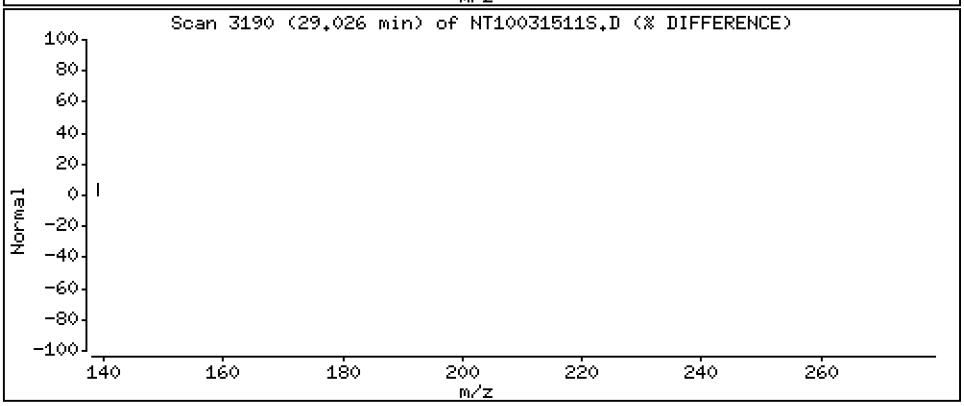












Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

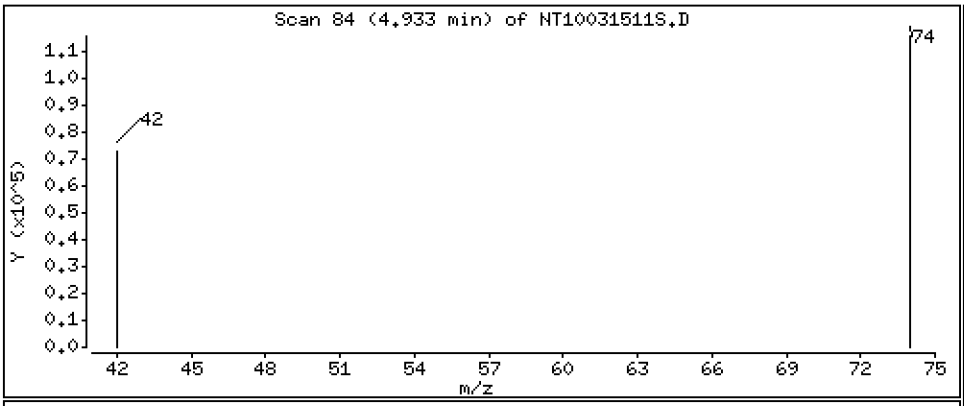
Operator: JGR

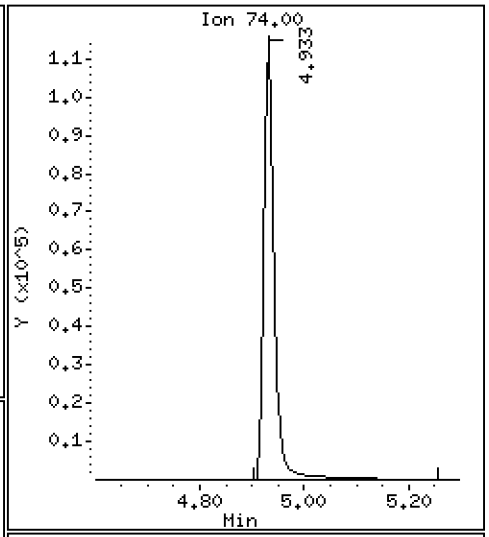
Column phase: ZB-5msi

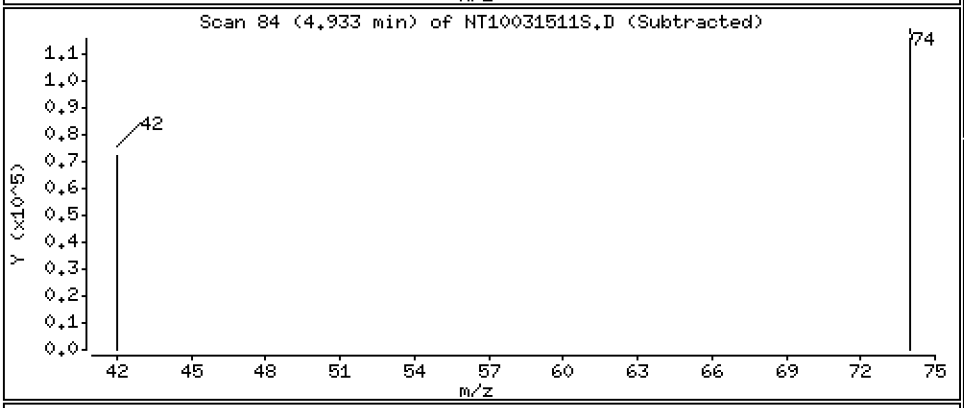
Column diameter: 0.25

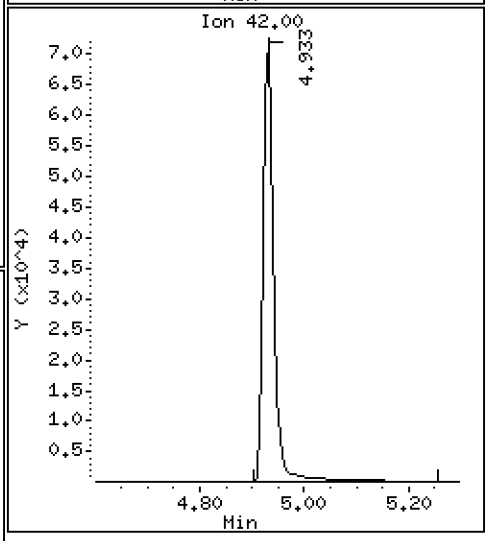
90 N-Nitrosodimethylamine

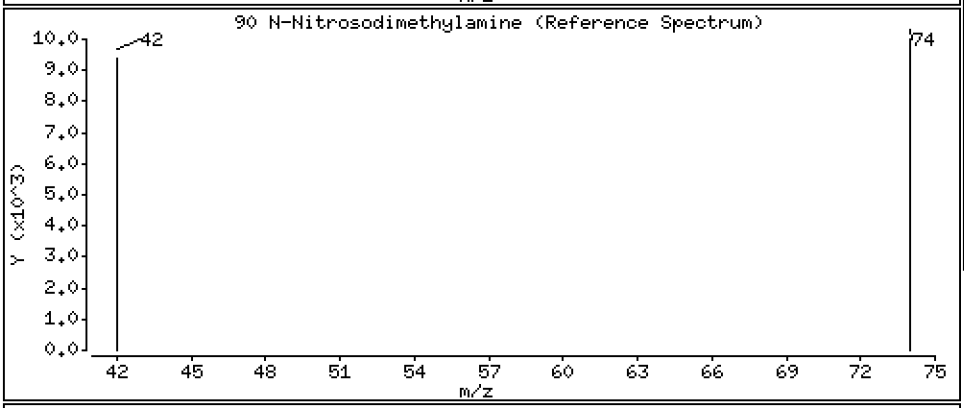
Concentration: 5.096 ug/L

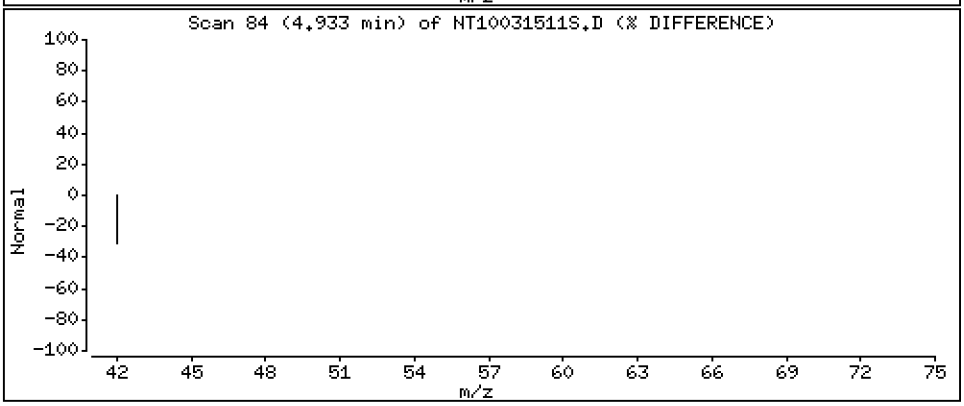












ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D
Lab Smp Id: SLC0238-SCV1
Inj Date : 16-MAR-2023 02:16 MS Autotune Date: 16-JAN-2023 17:42
Operator : JGR Inst ID: nt10.i
Smp Info : SLC0238-SCV1
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Meth Date : 16-Mar-2023 14:39 van Quant Type: ISTD
Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
$ 1	2-Fluorophenol	112	Compound Not Detected.					
3	Phenol	94	8.664	8.664	(0.931)	303581	4.37299	4.373
7	1,3-Dichlorobenzene	146	9.236	9.236	(0.992)	301605	4.64290	4.643
* 8	1,4-Dichlorobenzene-d4	152	9.306	9.298	(1.000)	166866	4.00000	
9	1,4-Dichlorobenzene	146	9.329	9.329	(1.002)	303390	4.83813	4.838
11	Benzyl alcohol	79	9.562	9.570	(1.028)	208505	5.18071	5.181
12	1,2-Dichlorobenzene	146	9.686	9.686	(1.041)	288539	4.67875	4.679
13	2-Methylphenol	108	9.772	9.772	(1.050)	201888	4.19698	4.197
15	4-Methylphenol	108	10.043	10.036	(1.079)	223083	4.46301	4.463
16	N-Nitroso-di-n-propylamine	70	10.121	10.113	(1.088)	186707	5.28174	5.282
22	2,4-Dimethylphenol	107	11.086	11.087	(0.942)	193654	3.66015	3.660
24	Benzoic acid	105	11.214	11.189	(0.952)	200487	6.74612	6.746
26	1,2,4-Trichlorobenzene	180	11.690	11.690	(0.993)	236605	4.44540	4.445
* 27	Naphthalene-d8	136	11.775	11.775	(1.000)	612104	4.00000	
30	Hexachlorobutadiene	225	12.169	12.169	(1.033)	150581	4.65339	4.653
39	Dimethylphthalate	163	14.877	14.877	(0.967)	472341	4.94766	4.948
* 42	Acenaphthene-d10	162	15.388	15.380	(1.000)	302524	4.00000	
50	Diethylphthalate	149	16.331	16.324	(1.061)	530540	5.36440	5.364
54	N-Nitrosodiphenylamine	169	16.725	16.717	(0.908)	377357	5.08034	5.080
57	Hexachlorobenzene	284	17.798	17.798	(0.966)	153405	4.61353	4.614

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	58 Pentachlorophenol	266	18.154	18.154	(0.985)	83223	4.41780	4.418
*	59 Phenanthrene-d10	188	18.425	18.417	(1.000)	553619	4.00000	
$	66 Terphenyl-d14	244	21.543	21.543	(0.918)	117	0.00154	0.001543(RM)
	67 Butylbenzylphthalate	149	22.464	22.465	(0.958)	332887	5.12147	5.121
*	69 Chrysene-d12	240	23.455	23.455	(1.000)	465428	4.00000	
*	77 Perylene-d12	264	26.188	26.188	(1.000)	532593	4.00000	
	79 Dibenzo(a,h)anthracene	278	29.026	29.019	(1.108)	722983	4.23762	4.238
	90 N-Nitrosodimethylamine	74	4.933	4.948	(0.530)	163555	5.09625	5.096

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT10031511S.D
Lab Smp Id: SLC0238-SCV1
Analysis Type: SV
Quant Type: ISTD
Operator: JGR
Method File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Misc Info:

Calibration Date: 15-MAR-2023
Calibration Time: 23:06
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	188081	94041	376162	166866	-11.28
27 Naphthalene-d8	674549	337275	1349098	612104	-9.26
42 Acenaphthene-d10	328275	164138	656550	302524	-7.84
59 Phenanthrene-d10	597140	298570	1194280	553619	-7.29
69 Chrysene-d12	466503	233252	933006	465428	-0.23
77 Perylene-d12	518203	259102	1036406	532593	2.78

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.30	8.80	9.80	9.31	0.08
27 Naphthalene-d8	11.77	11.27	12.27	11.78	0.01
42 Acenaphthene-d10	15.39	14.89	15.89	15.39	0.01
59 Phenanthrene-d10	18.42	17.92	18.92	18.43	0.00
69 Chrysene-d12	23.45	22.95	23.95	23.46	0.00
77 Perylene-d12	26.19	25.69	26.69	26.19	0.00

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

REVIEW SUMMARY FOR FILE - NT10031511S.D

Lab ID: SLC0238-SCV1
nt10.i, 20230315.b\20230315.b\SIMABN2.m,   16-MAR-2023 02:16

RT	CO-ELUTION COMPOUNDS
NO CO-ELUTIONS	

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.952	0.000	0.9524	Benzoic acid

RRT check based on Ccal File: 20230315.b/NT10031510S.D

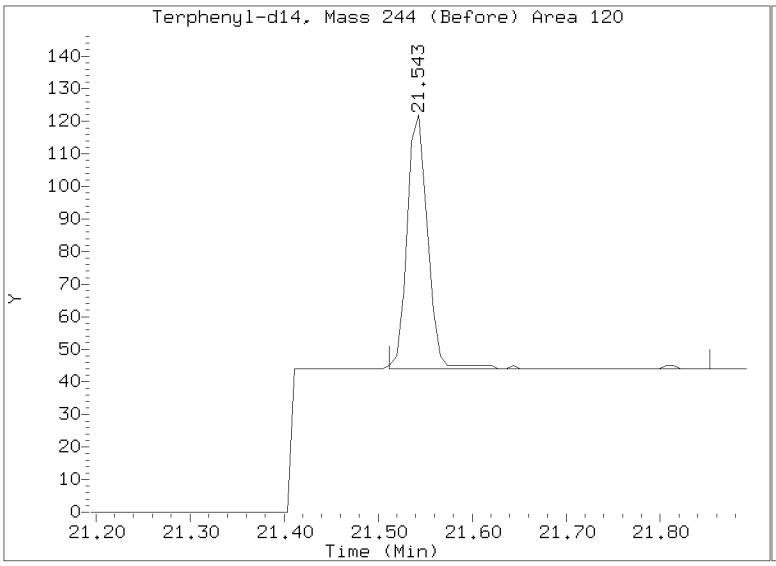
On Column LOD for nt10.i, 20230315.b\SIMABN2.m, PSDDA.sub = 0.0000

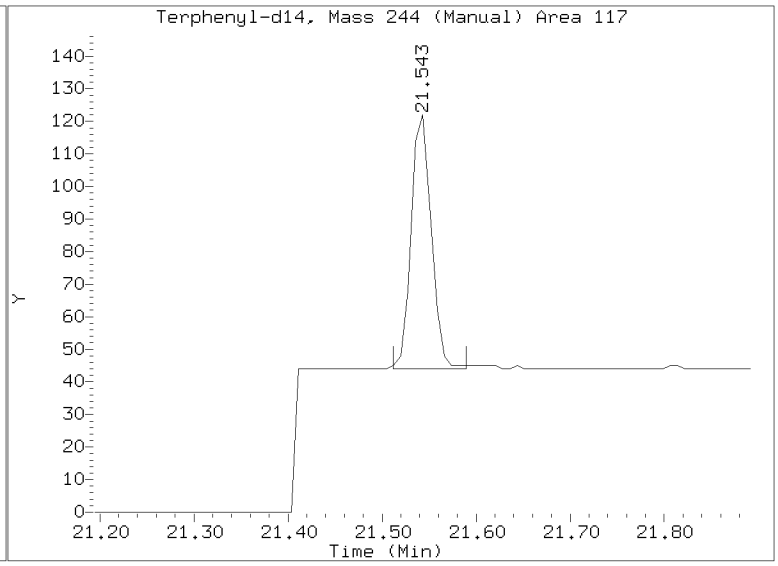
Exception: 1,2,4-Trichlorobenzene 0.0010

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230315.b/20230315.b/NT10031511S.D
Injection Date: 16-MAR-2023 02:16
Lab ID:SLC0238-SCV1 Client ID:
Report Date: 03/16/2023 14:49





Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT100315128.D

Date : 16-MAR-2023 02:54

Client ID:

Instrument: nt10.i

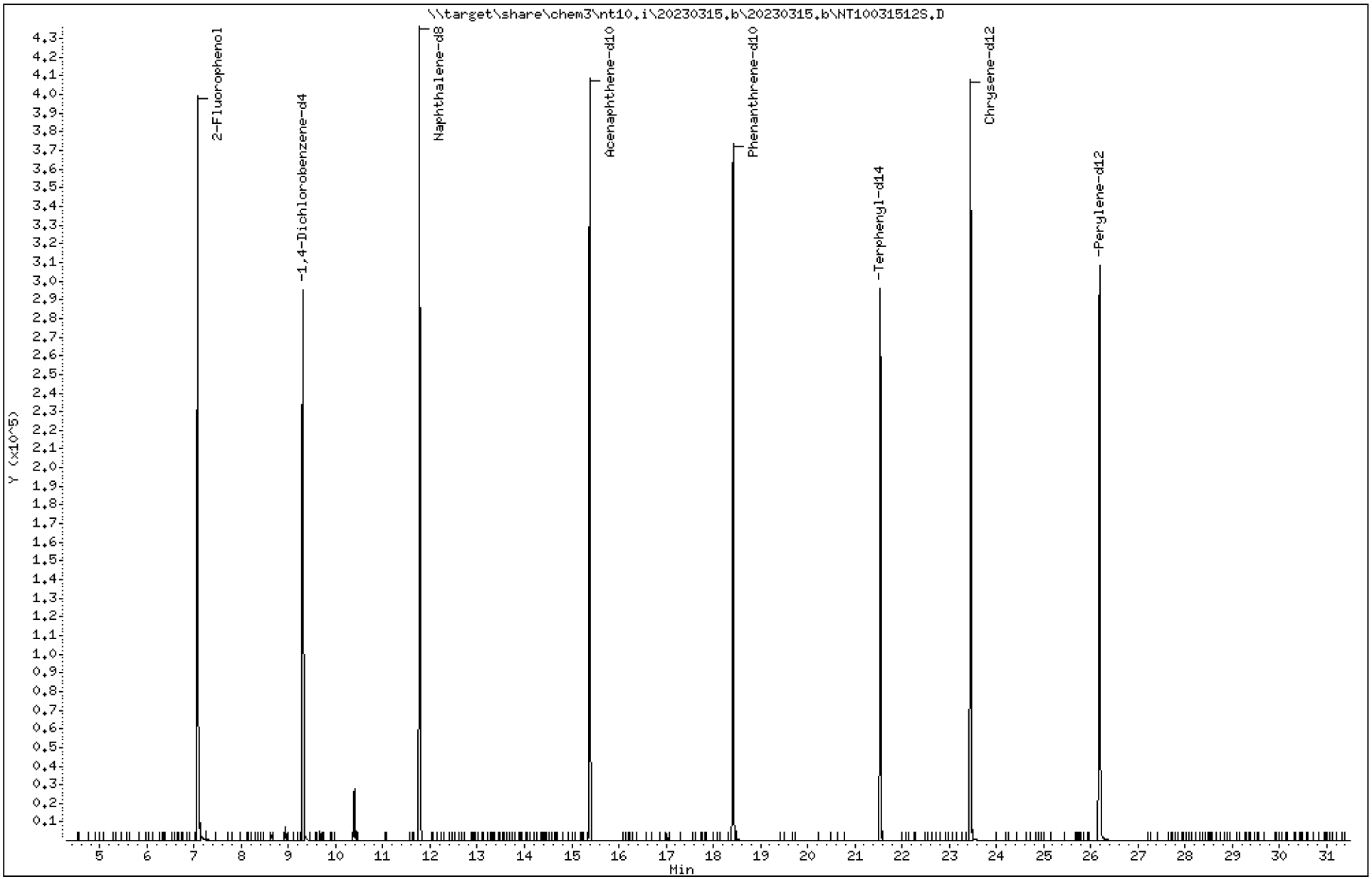
Sample Info: SLC0238-ICB1

Volume Injected (uL): 1.0

Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25



ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031512S.D
Lab Smp Id: SLC0238-ICB1
Inj Date : 16-MAR-2023 02:54 MS Autotune Date: 16-JAN-2023 17:42
Operator : JGR Inst ID: nt10.i
Smp Info : SLC0238-ICB1
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Meth Date : 16-Mar-2023 14:39 van Quant Type: ISTD
Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
$ 1	2-Fluorophenol	112	7.072	7.073	(0.760)	392056	6.82342	6.823(R)
3	Phenol	94	Compound Not Detected.					
7	1,3-Dichlorobenzene	146	Compound Not Detected.					
* 8	1,4-Dichlorobenzene-d4	152	9.306	9.298	(1.000)	189475	4.00000	
9	1,4-Dichlorobenzene	146	Compound Not Detected.					
11	Benzyl alcohol	79	Compound Not Detected.					
12	1,2-Dichlorobenzene	146	Compound Not Detected.					
13	2-Methylphenol	108	Compound Not Detected.					
15	4-Methylphenol	108	Compound Not Detected.					
16	N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
22	2,4-Dimethylphenol	107	Compound Not Detected.					
24	Benzoic acid	105	Compound Not Detected.					
26	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
* 27	Naphthalene-d8	136	11.774	11.775	(1.000)	676186	4.00000	
30	Hexachlorobutadiene	225	Compound Not Detected.					
39	Dimethylphthalate	163	Compound Not Detected.					
* 42	Acenaphthene-d10	162	15.379	15.380	(1.000)	328650	4.00000	
50	Diethylphthalate	149	Compound Not Detected.					
54	N-Nitrosodiphenylamine	169	Compound Not Detected.					
57	Hexachlorobenzene	284	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	58 Pentachlorophenol	266	Compound Not Detected.					
*	59 Phenanthrene-d10	188	18.424	18.417	(1.000)	617605	4.00000	
$	66 Terphenyl-d14	244	21.542	21.543	(0.918)	340833	4.41767	4.418(R)
	67 Butylbenzylphthalate	149	Compound Not Detected.					
*	69 Chrysene-d12	240	23.454	23.455	(1.000)	473513	4.00000	
*	77 Perylene-d12	264	26.187	26.188	(1.000)	534734	4.00000	
	79 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
	90 N-Nitrosodimethylamine	74	Compound Not Detected.					

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT10031512S.D
Lab Smp Id: SLC0238-ICB1
Analysis Type: SV
Quant Type: ISTD
Operator: JGR
Method File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Misc Info:

Calibration Date: 15-MAR-2023
Calibration Time: 23:06
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	188081	94041	376162	189475	0.74
27 Naphthalene-d8	674549	337275	1349098	676186	0.24
42 Acenaphthene-d10	328275	164138	656550	328650	0.11
59 Phenanthrene-d10	597140	298570	1194280	617605	3.43
69 Chrysene-d12	466503	233252	933006	473513	1.50
77 Perylene-d12	518203	259102	1036406	534734	3.19

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.30	8.80	9.80	9.31	0.08
27 Naphthalene-d8	11.77	11.27	12.27	11.77	-0.00
42 Acenaphthene-d10	15.39	14.89	15.89	15.38	-0.05
59 Phenanthrene-d10	18.42	17.92	18.92	18.42	-0.00
69 Chrysene-d12	23.45	22.95	23.95	23.45	-0.00
77 Perylene-d12	26.19	25.69	26.69	26.19	-0.00

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

REVIEW SUMMARY FOR FILE - NT10031512S.D

Lab ID: SLC0238-ICB1
nt10.i, 20230315.b\20230315.b\SIMABN2.m,   16-MAR-2023 02:54

RT	CO-ELUTION COMPOUNDS
NO CO-ELUTIONS	

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
NONE			

RRT check based on Ccal File: 20230315.b/NT10031510S.D

On Column LOD for nt10.i, 20230315.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

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

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8270E-SIM

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GC00049
Laboratory ID: SLC0238-SCV1
Sequence: SLC0238
Sequence Name: SCV 5.0
Standard ID: K010066

ANALYTE	EXPECTED (ug/mL)	FOUND (ug/mL)	% DRIFT	QC LIMIT
1,4-Dichlorobenzene	5.0000	4.8	-3.2	20.00
1,2-Dichlorobenzene	5.0000	4.7	-6.4	20.00
Benzyl Alcohol	5.0000	5.2	3.6	20.00
Benzoic acid	10.000	6.7	-32.5 *	20.00
2,4-Dimethylphenol	5.0000	3.7	-26.8 *	20.00
1,2,4-Trichlorobenzene	5.0000	4.4	-11.1	20.00
N-Nitrosodiphenylamine	5.0000	5.1	1.6	20.00
Pentachlorophenol	5.0000	4.4	-11.6	20.00
2-Fluorophenol	7.5000	0.00		
p-Terphenyl-d14	5.0000	0.00154	-100	

* Indicates values outside of QC limits

Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

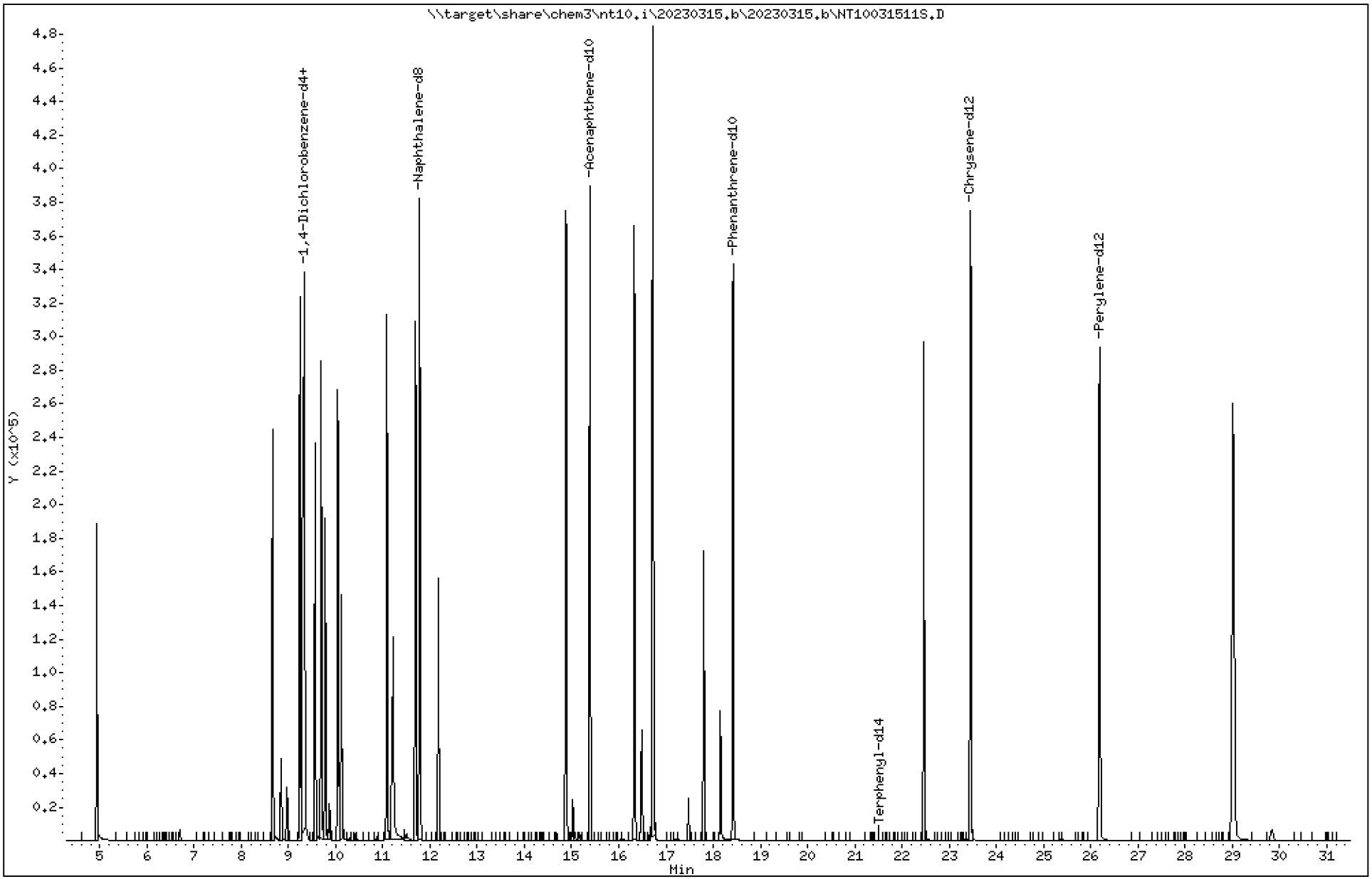
Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25



Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

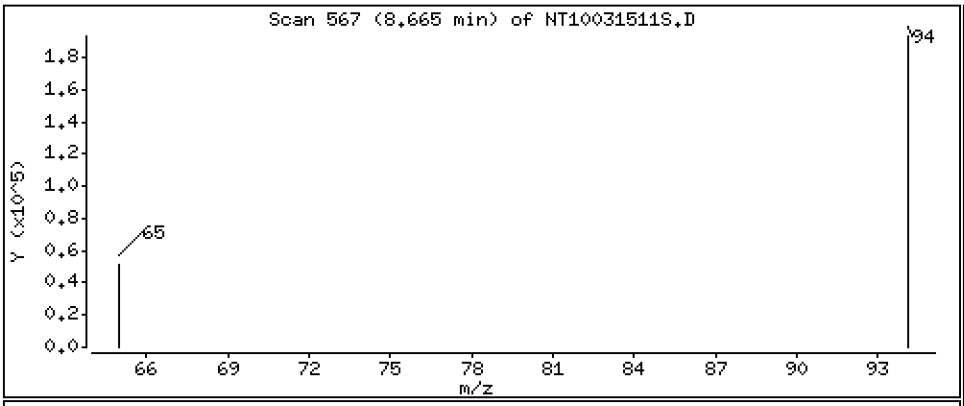
Operator: JGR

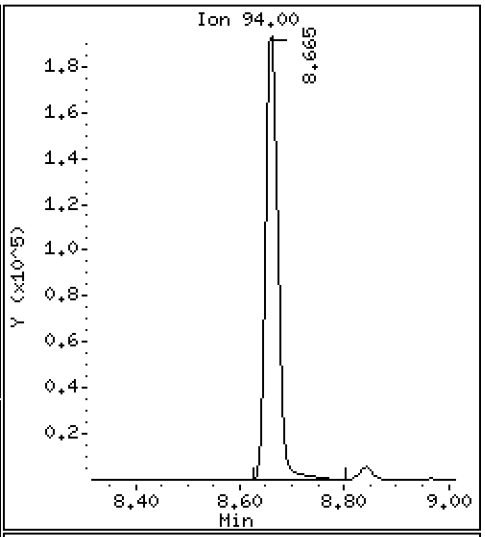
Column phase: ZB-5msi

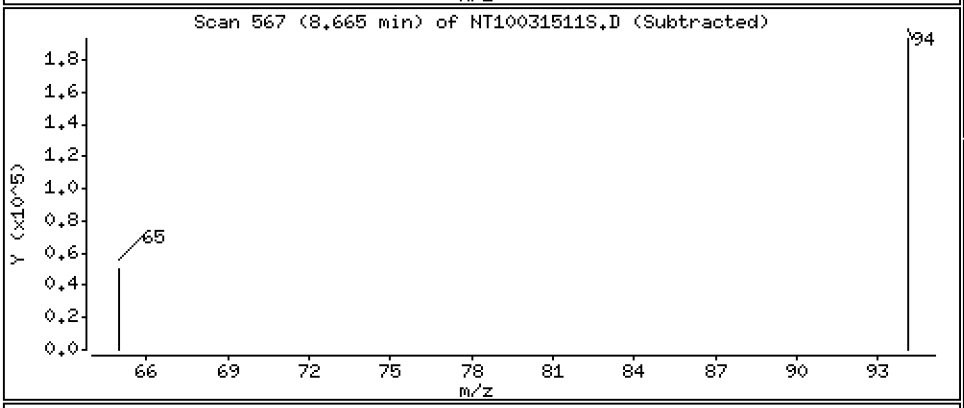
Column diameter: 0.25

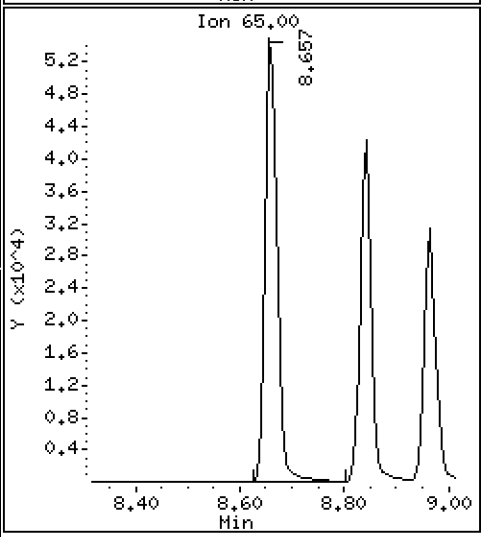
3 Phenol

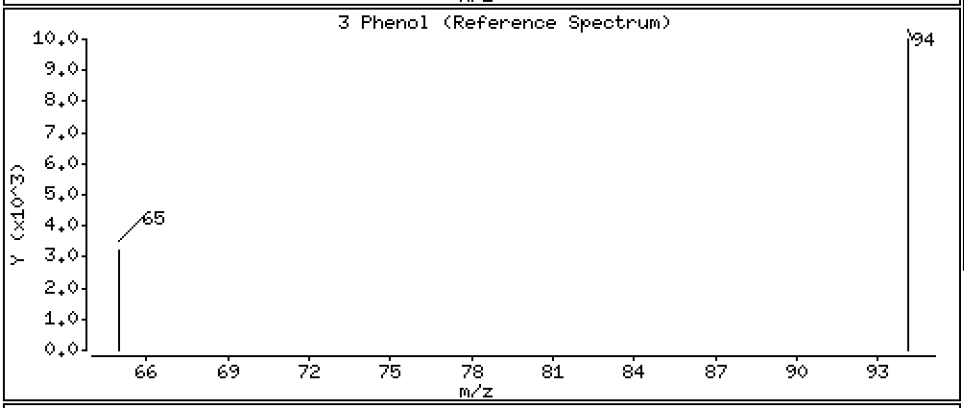
Concentration: 4.373 ug/L

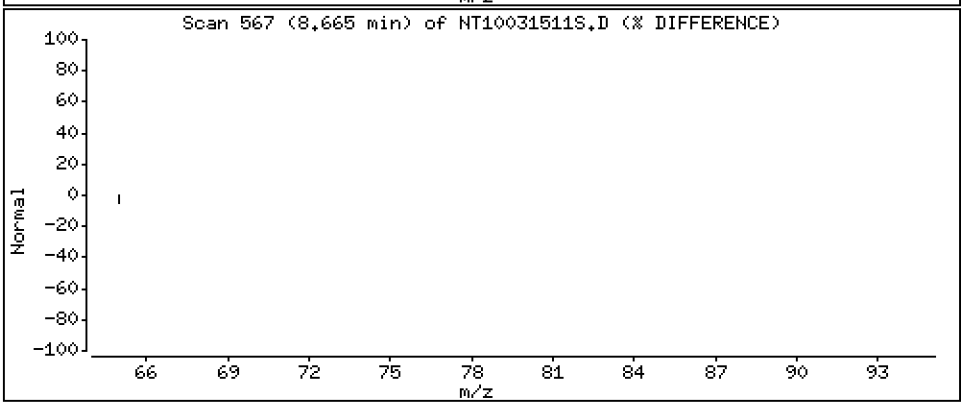












Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

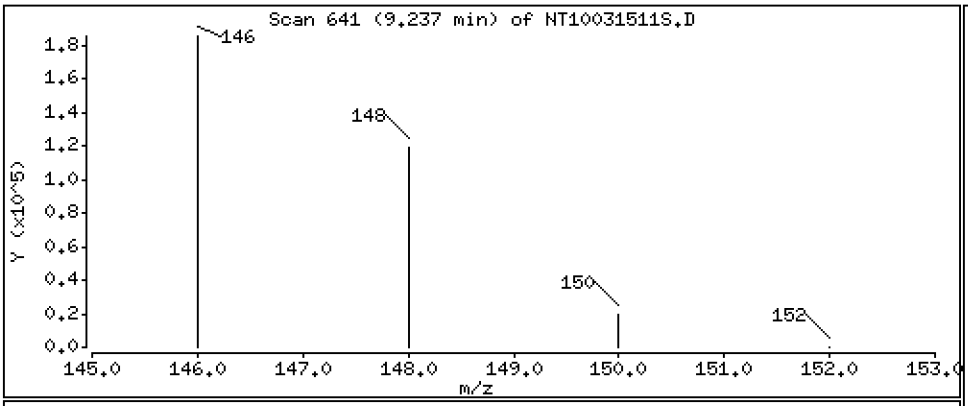
Operator: JGR

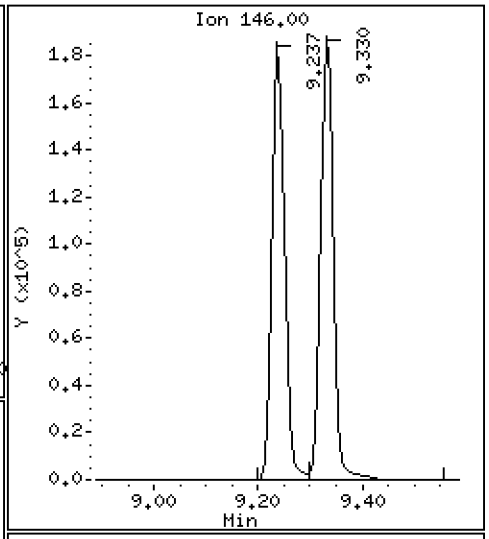
Column phase: ZB-5msi

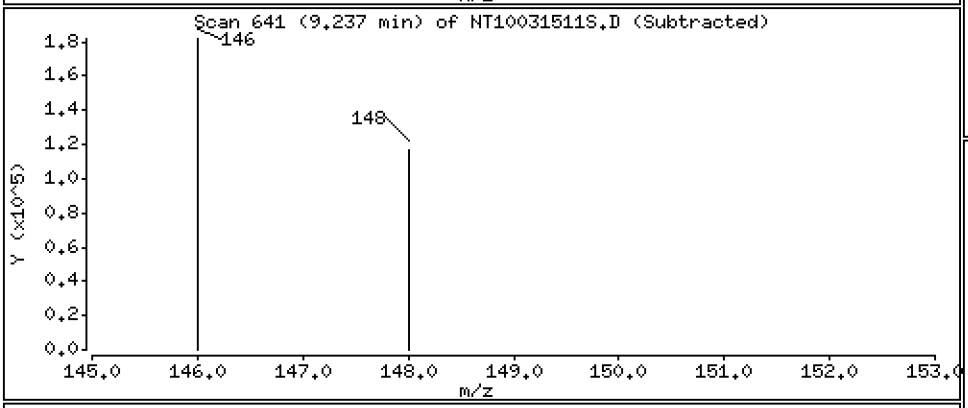
Column diameter: 0.25

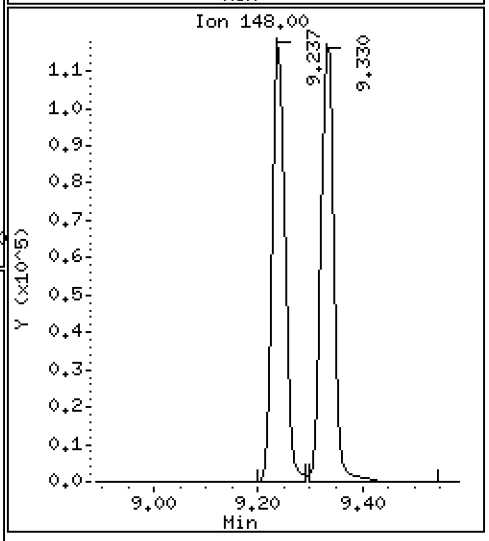
7 1,3-Dichlorobenzene

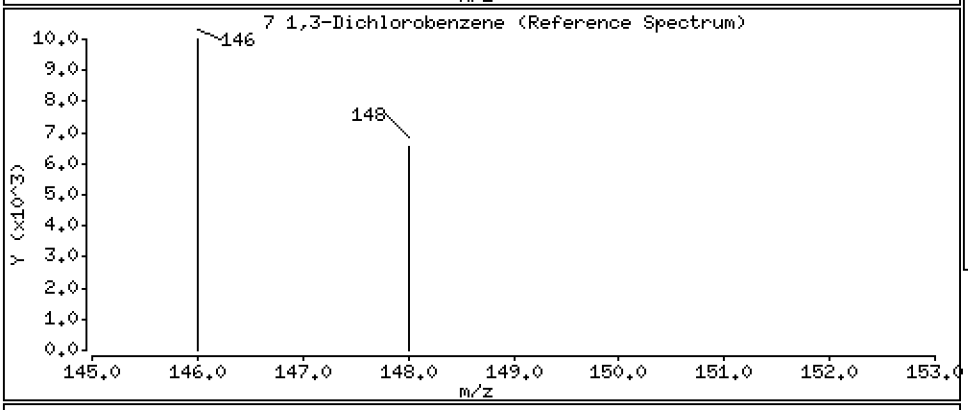
Concentration: 4.643 ug/L

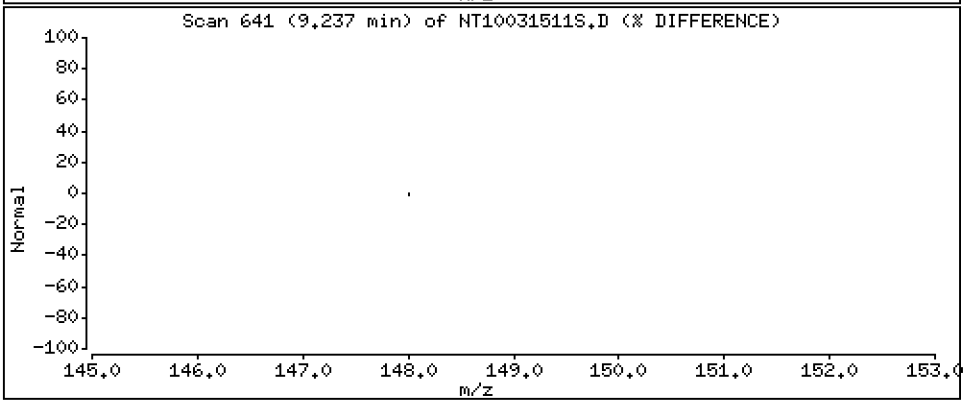












Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

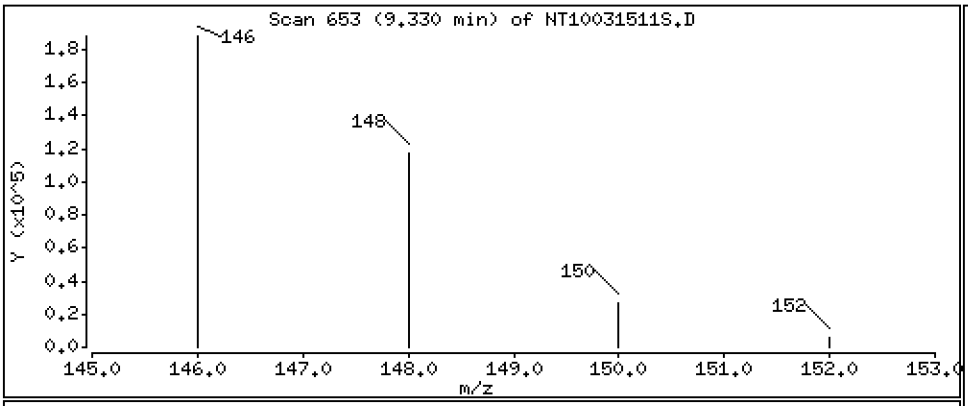
Operator: JGR

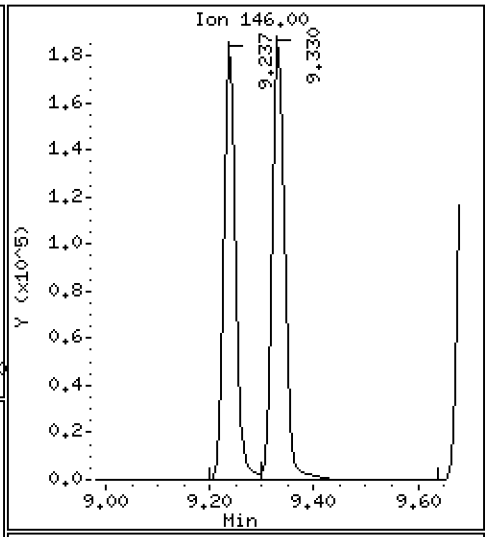
Column phase: ZB-5msi

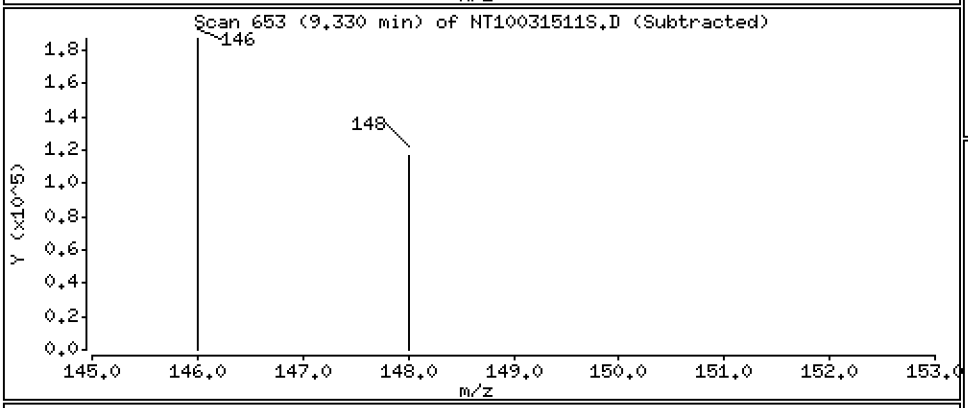
Column diameter: 0.25

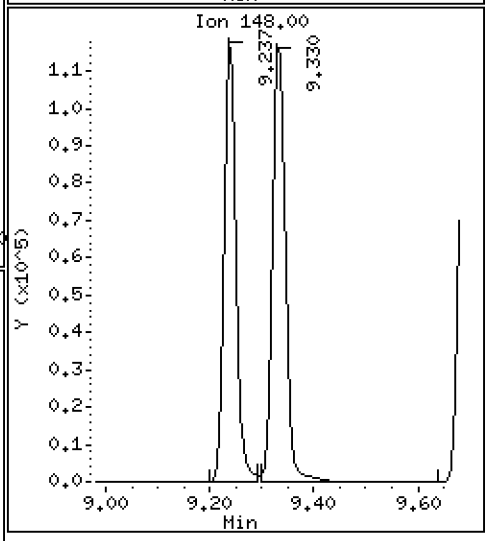
9 1,4-Dichlorobenzene

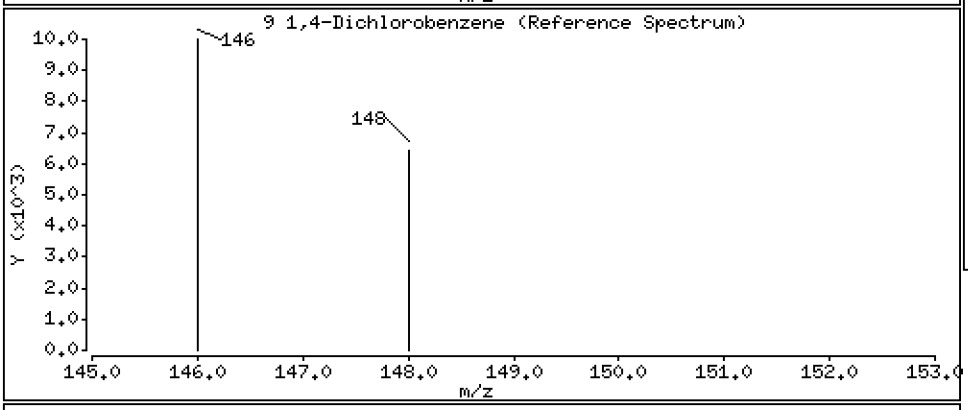
Concentration: 4.838 ug/L

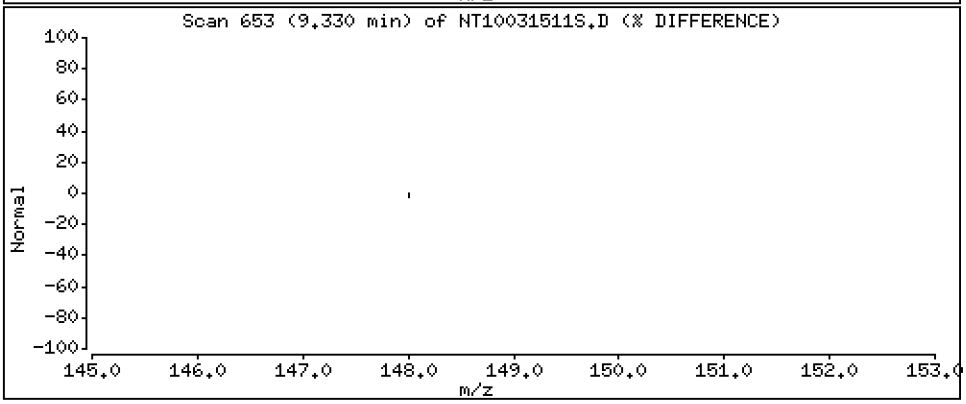












Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

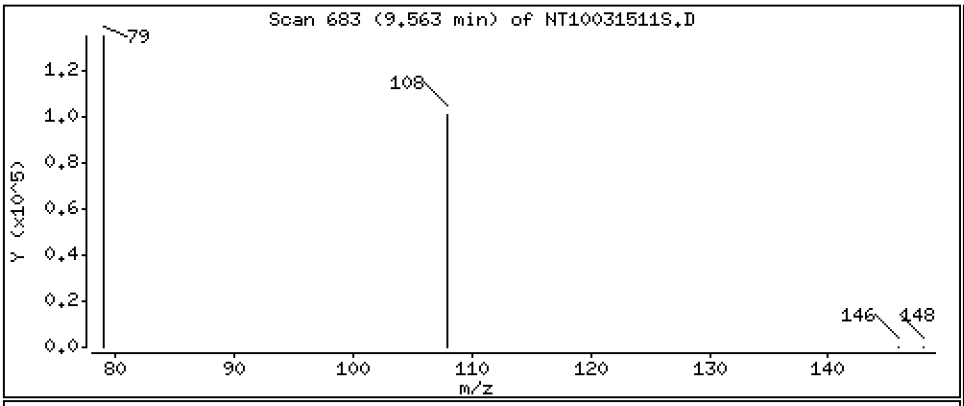
Operator: JGR

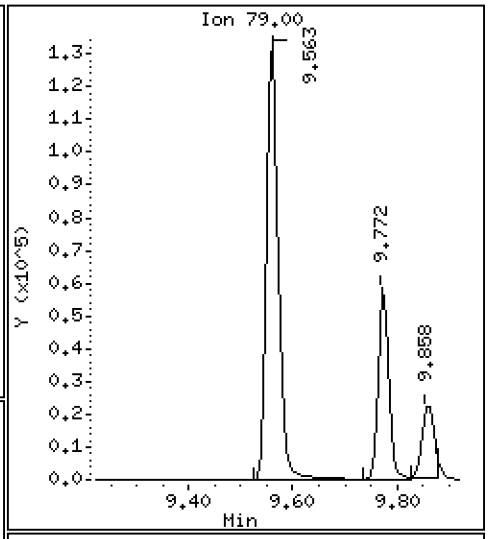
Column phase: ZB-5msi

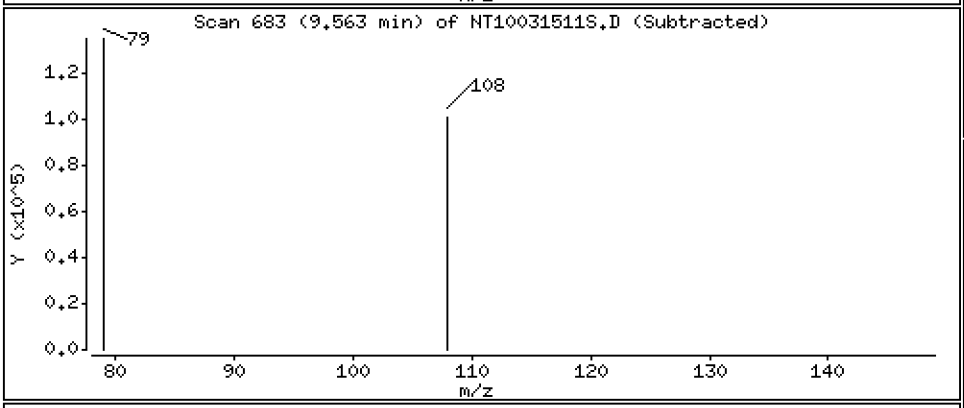
Column diameter: 0.25

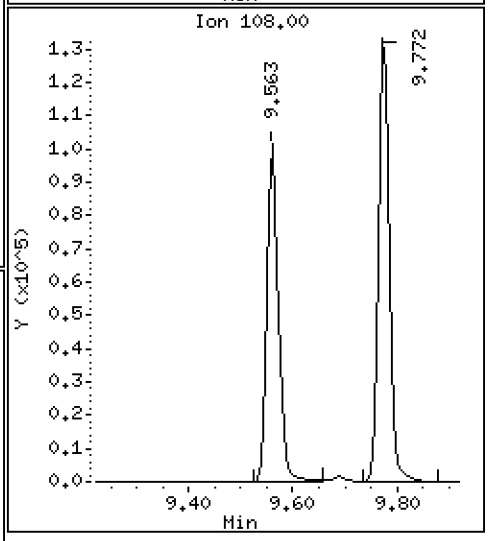
11 Benzyl alcohol

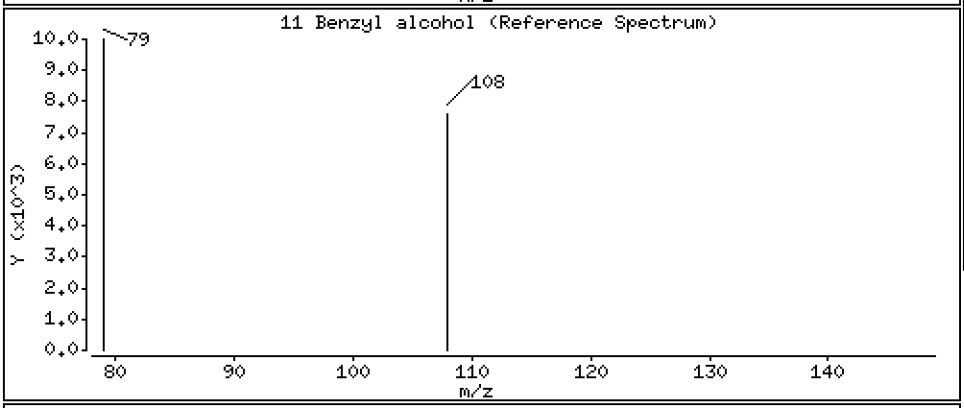
Concentration: 5.181 ug/L

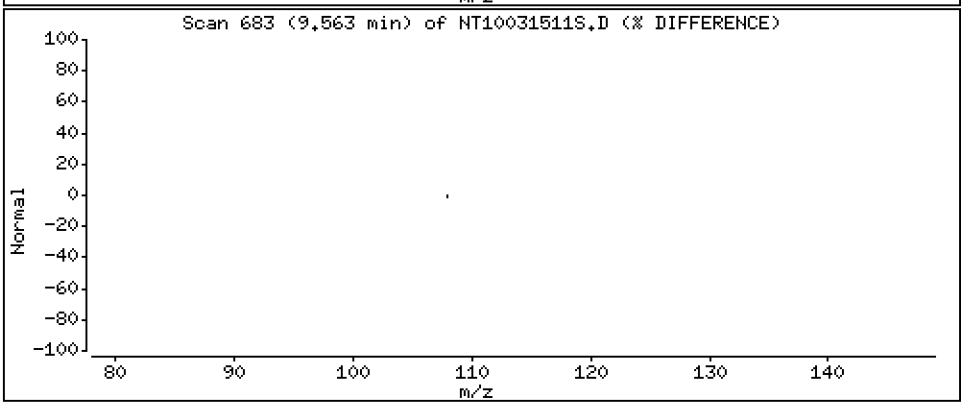












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

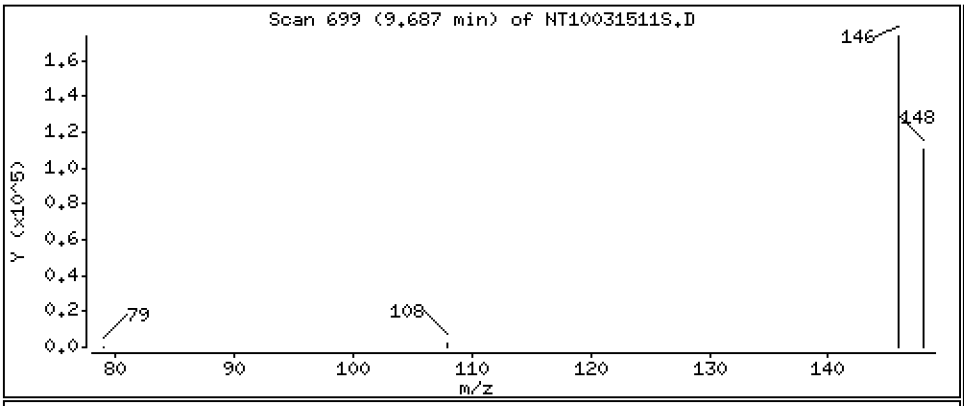
Operator: JGR

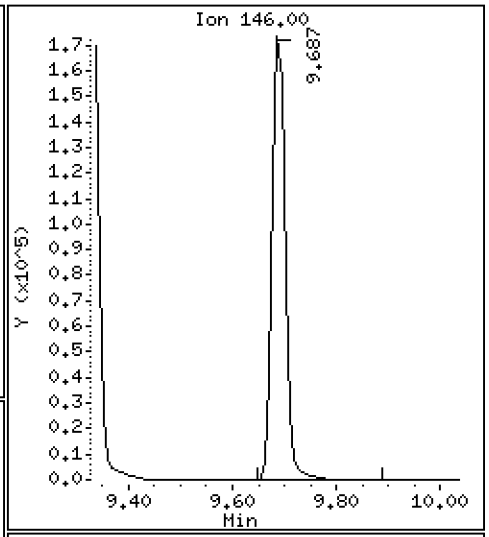
Column phase: ZB-5msi

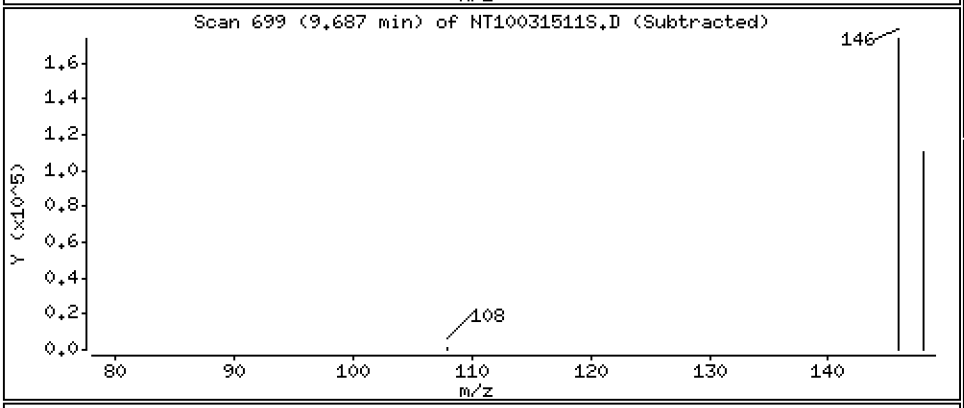
Column diameter: 0.25

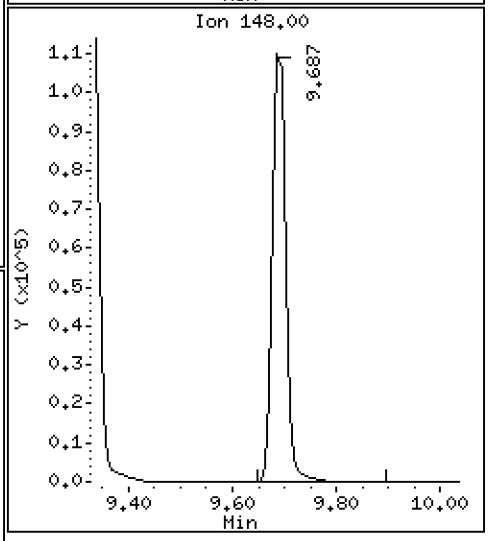
12 1,2-Dichlorobenzene

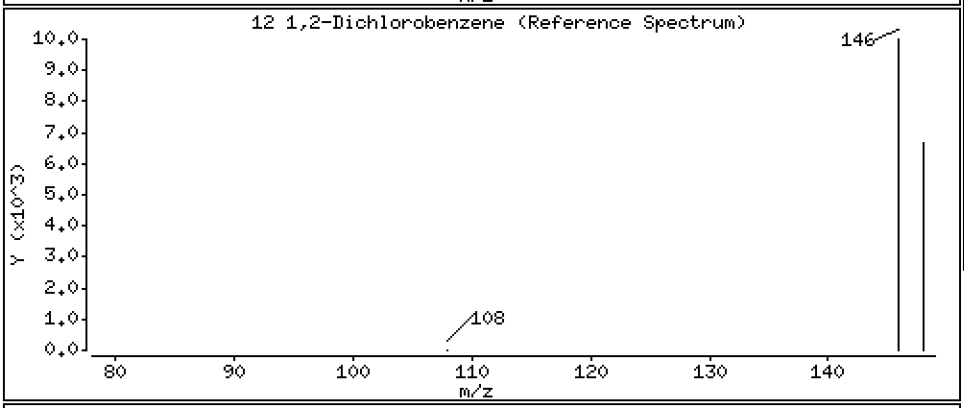
Concentration: 4.679 ug/L

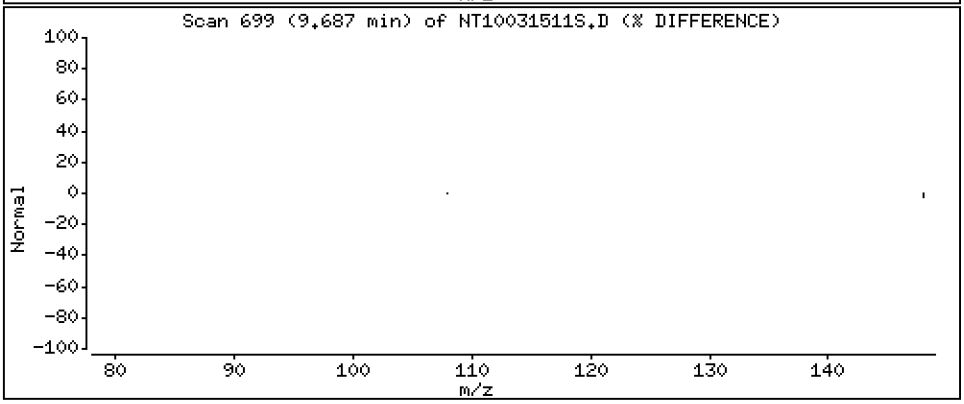












Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

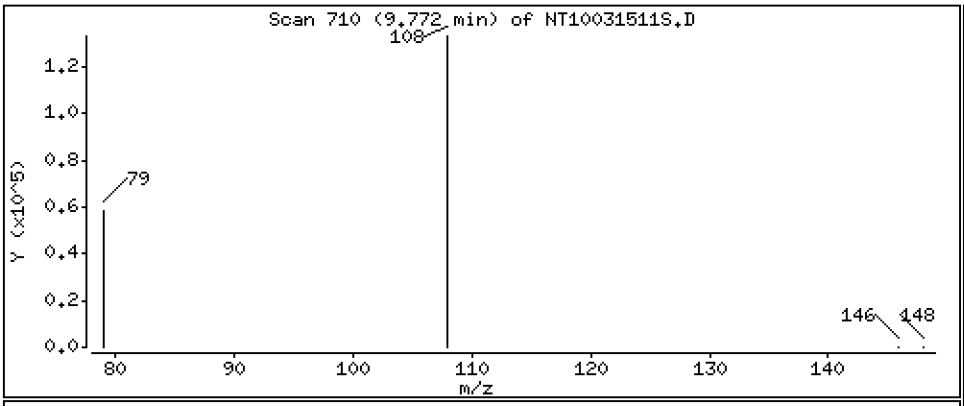
Operator: JGR

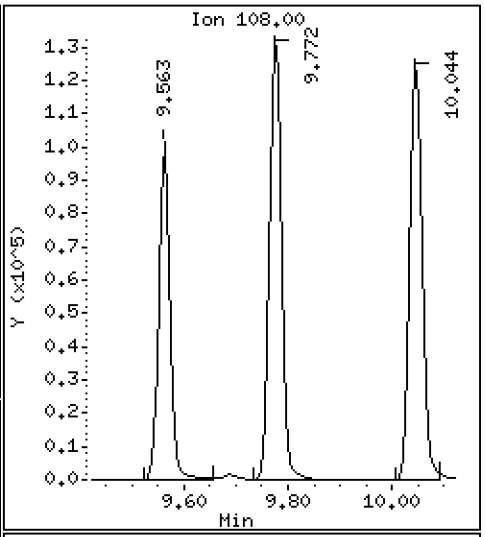
Column phase: ZB-5msi

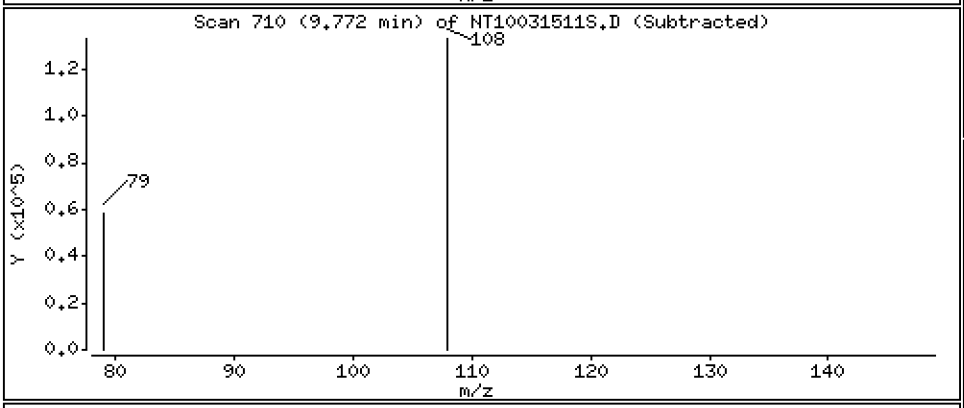
Column diameter: 0.25

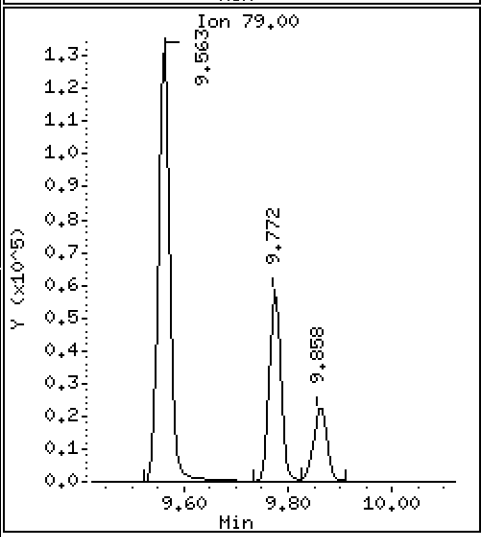
13 2-Methylphenol

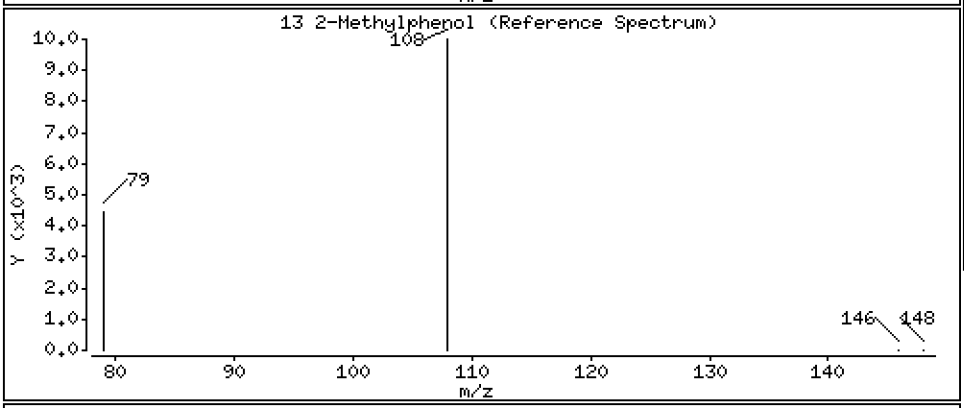
Concentration: 4.197 ug/L

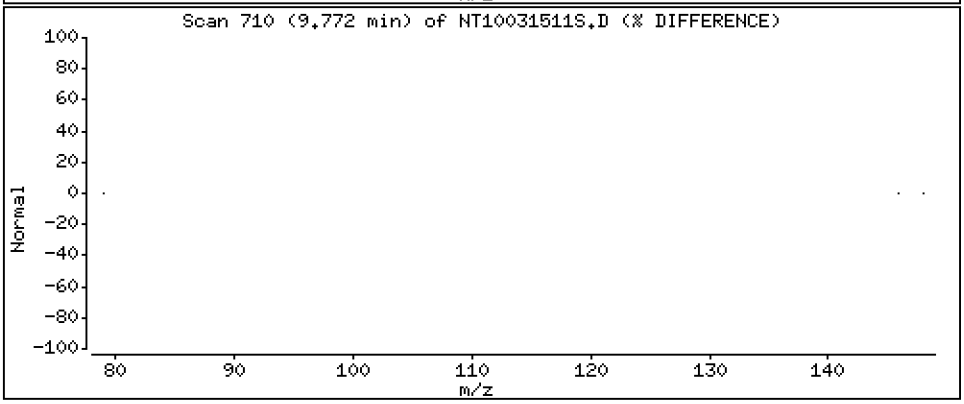












Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

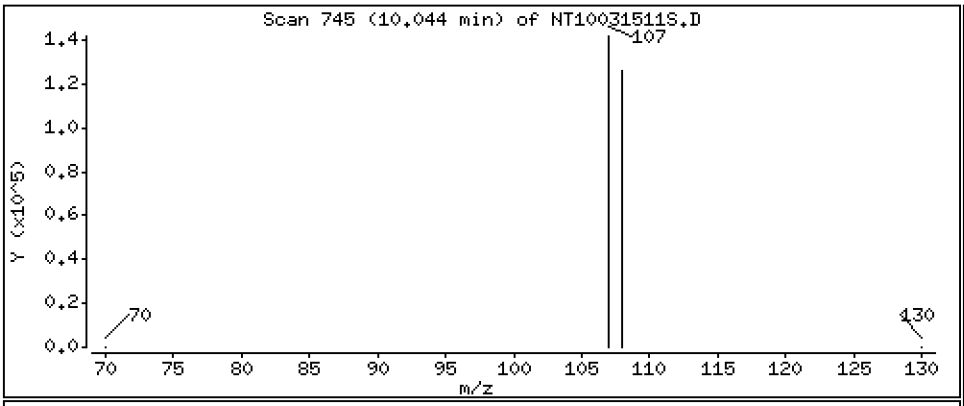
Operator: JGR

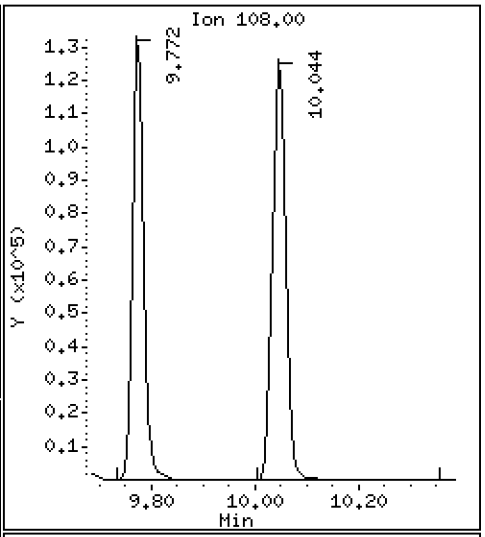
Column phase: ZB-5msi

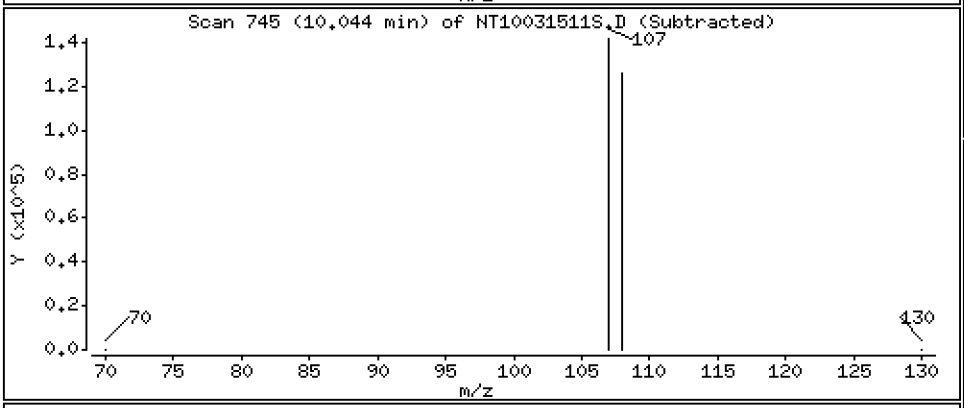
Column diameter: 0.25

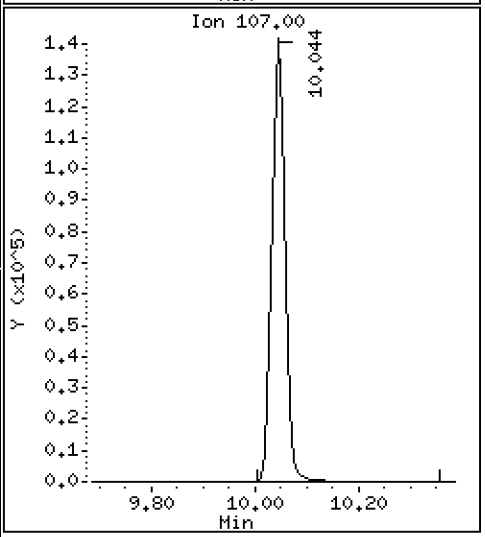
15 4-Methylphenol

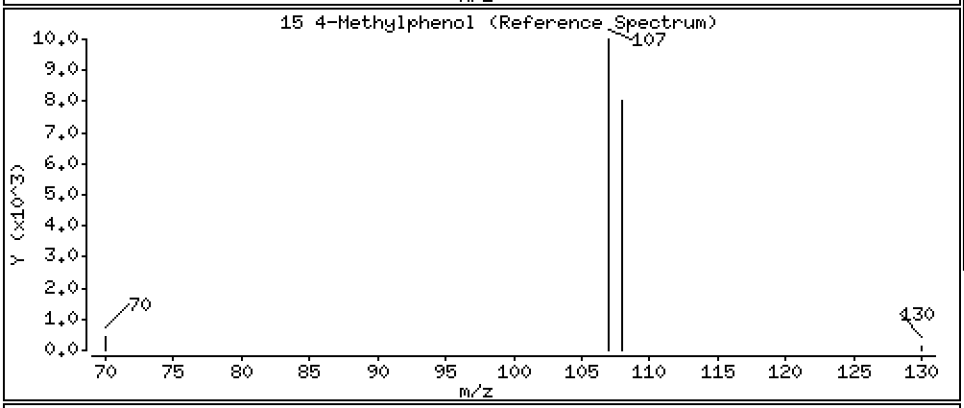
Concentration: 4.463 ug/L

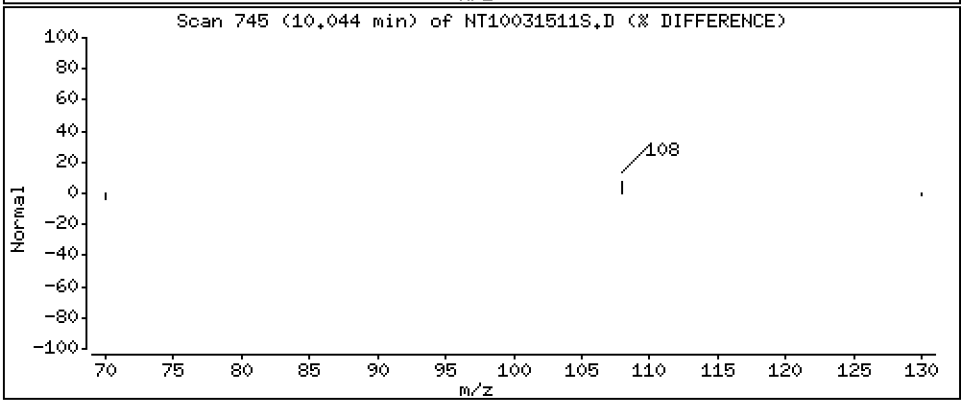












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

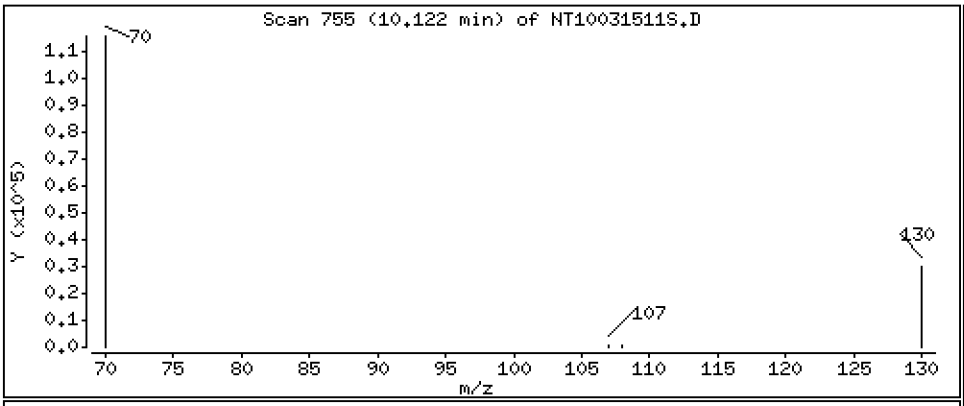
Operator: JGR

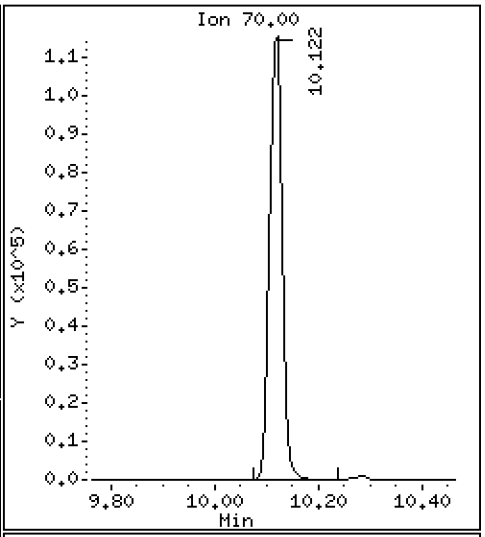
Column phase: ZB-5msi

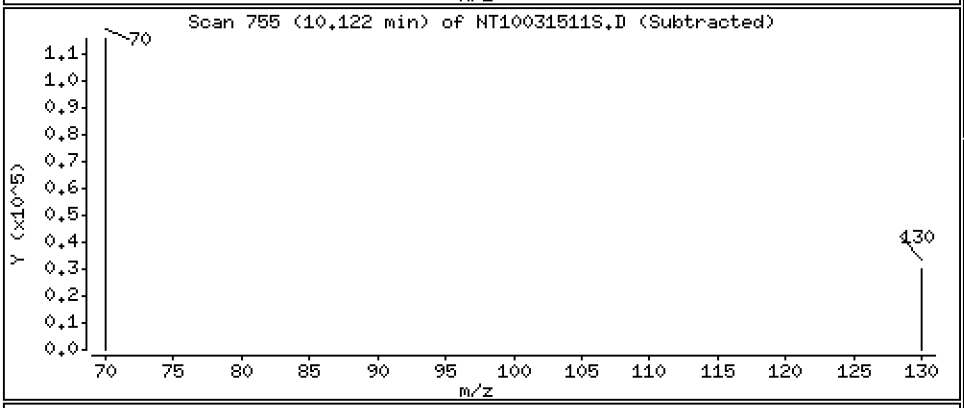
Column diameter: 0.25

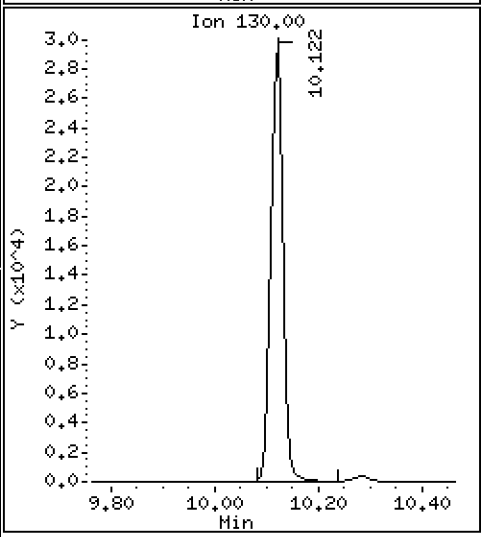
16 N-Nitroso-di-n-propylamine

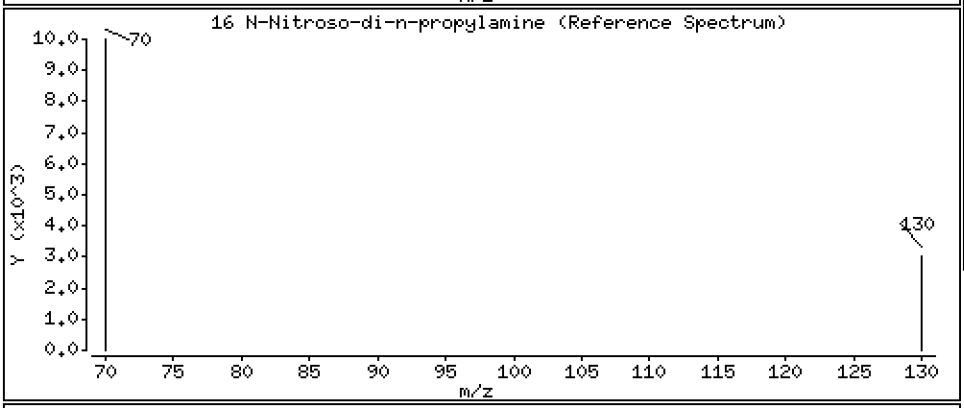
Concentration: 5.282 ug/L

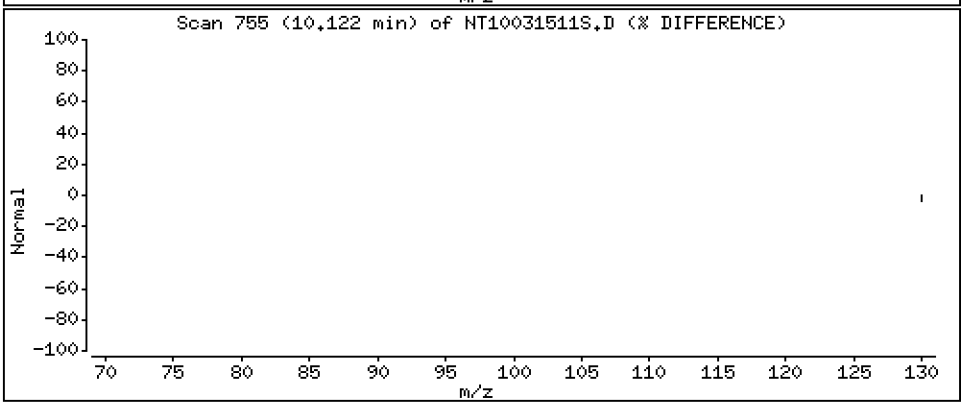












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

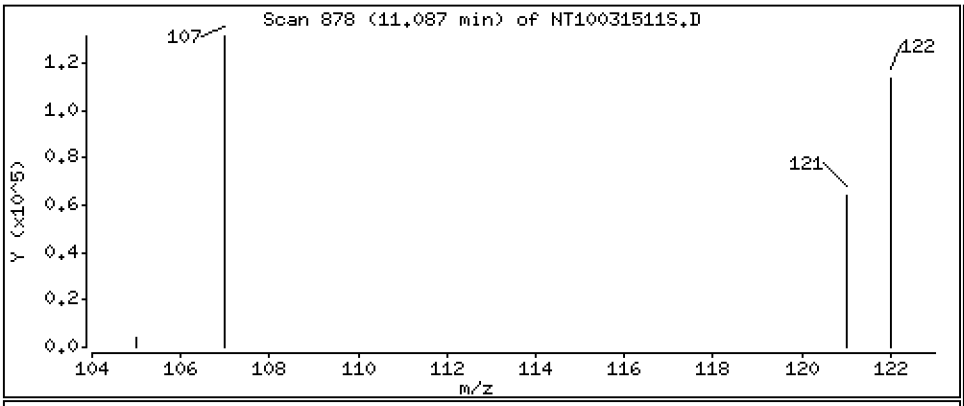
Operator: JGR

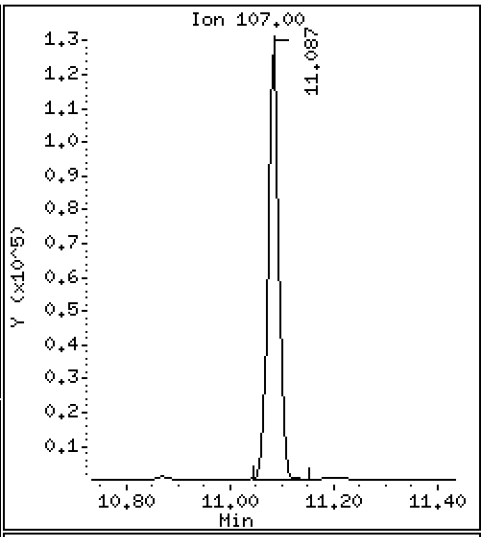
Column phase: ZB-5msi

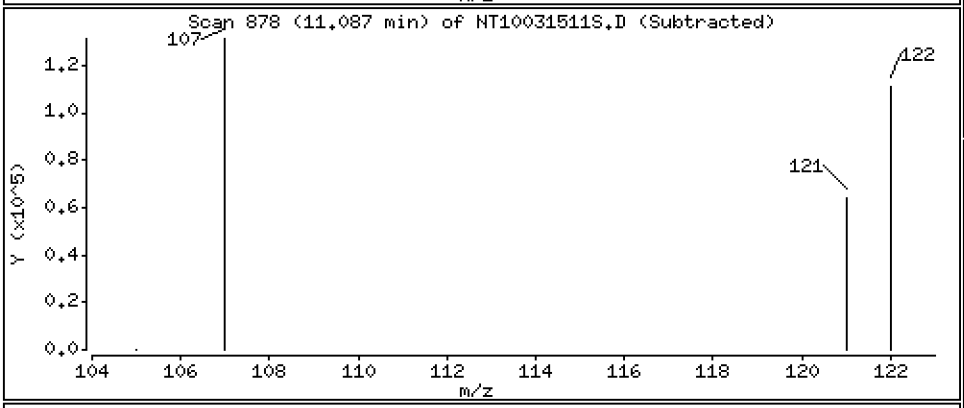
Column diameter: 0.25

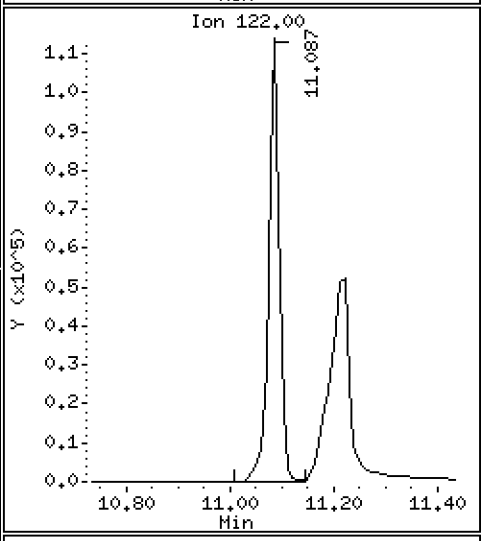
22 2,4-Dimethylphenol

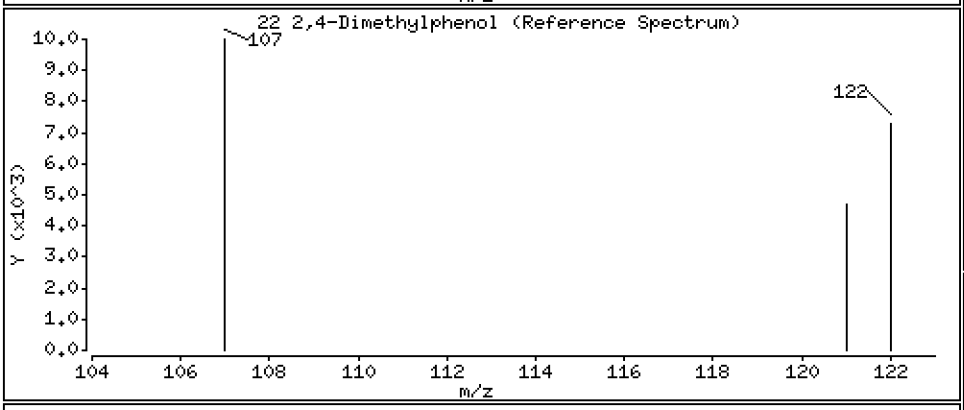
Concentration: 3.660 ug/L

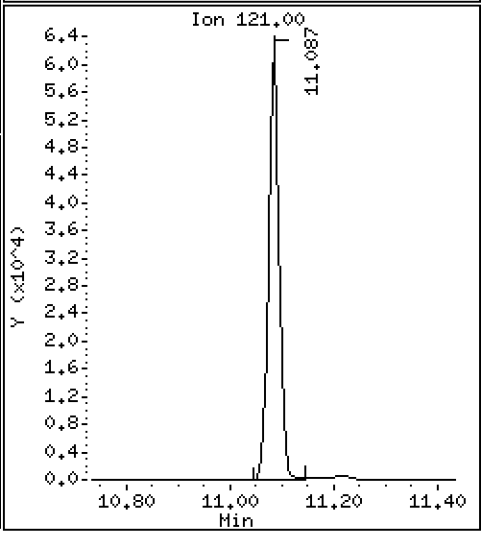


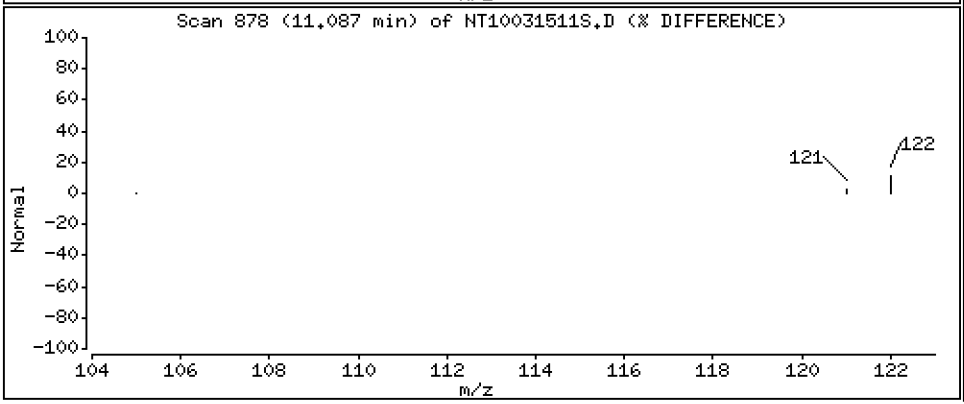












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

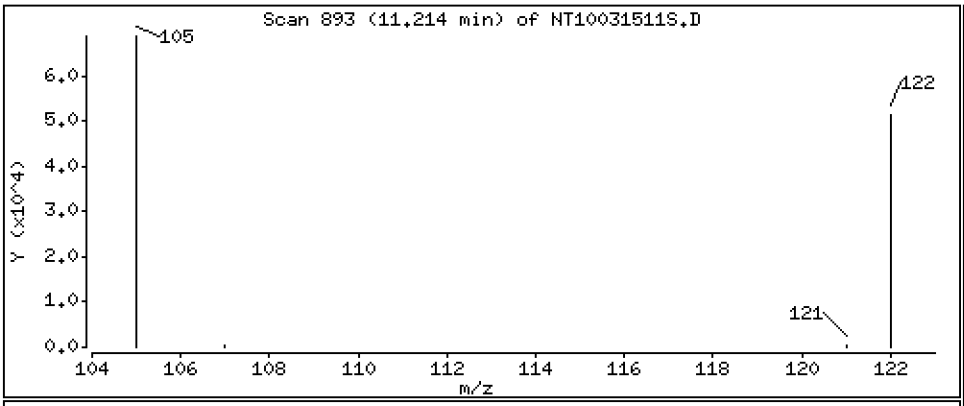
Operator: JGR

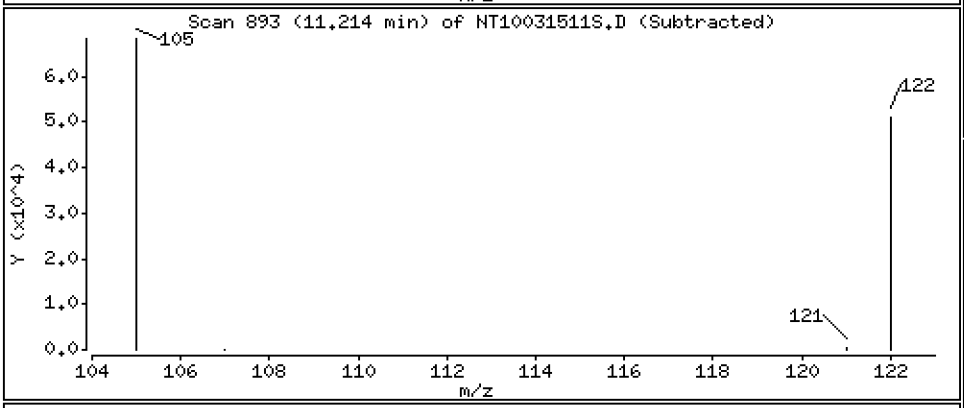
Column phase: ZB-5msi

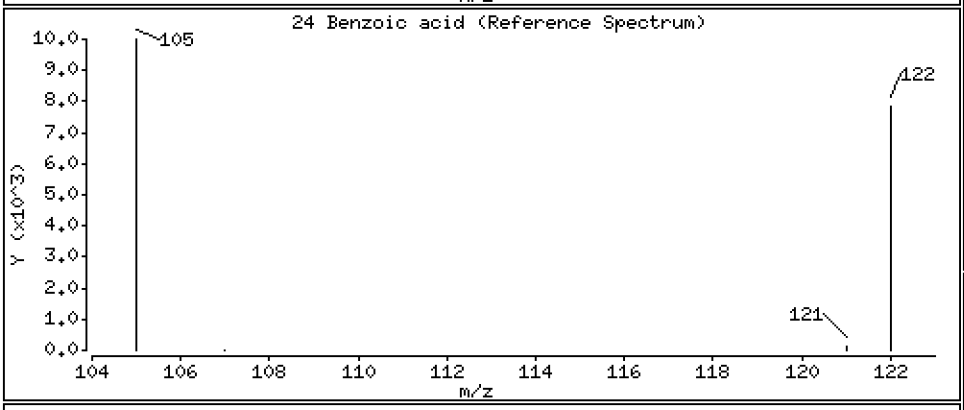
Column diameter: 0.25

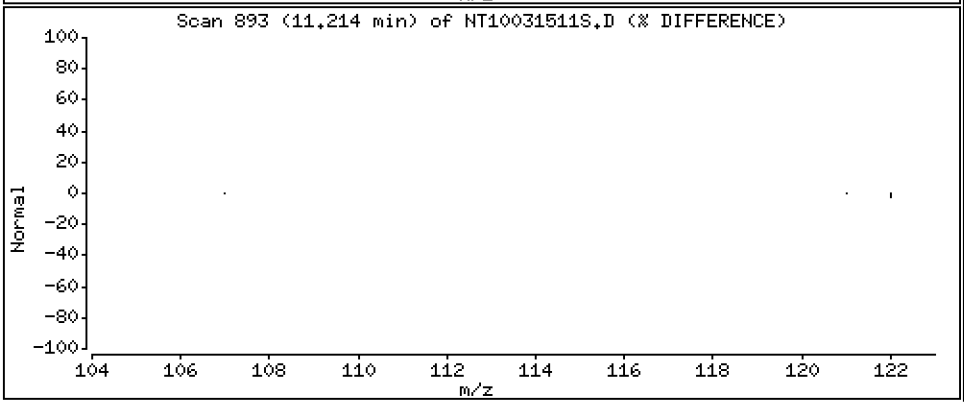
24 Benzoic acid

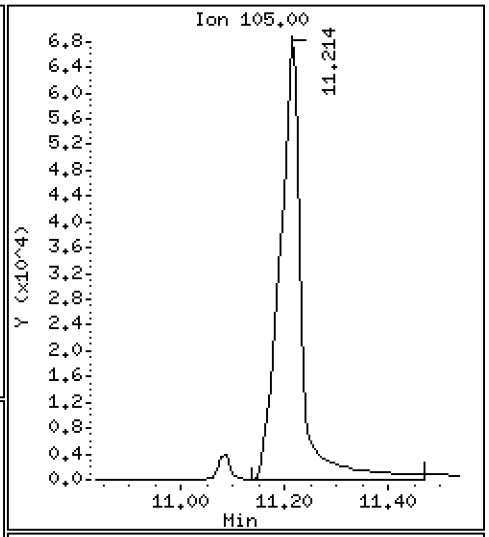
Concentration: 6.746 ug/L

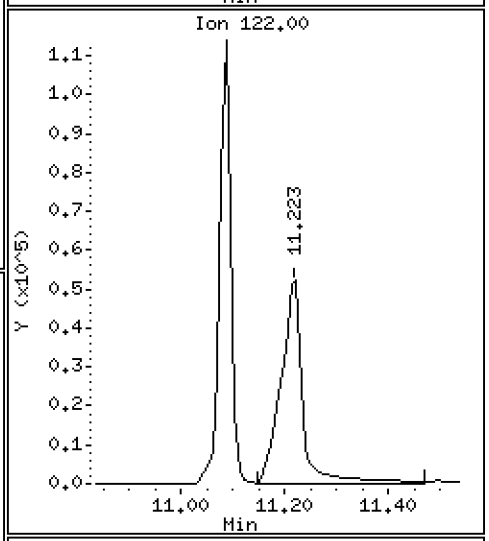


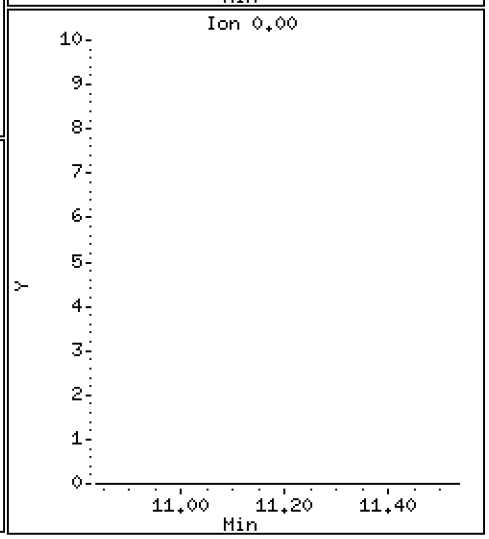












Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

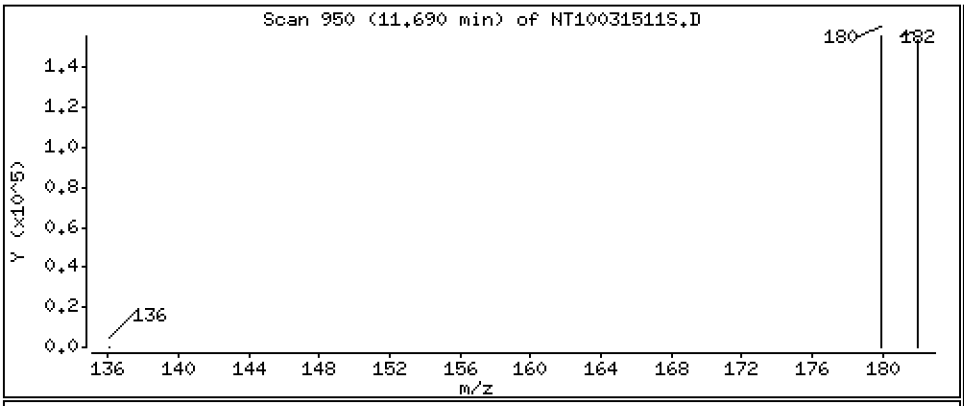
Operator: JGR

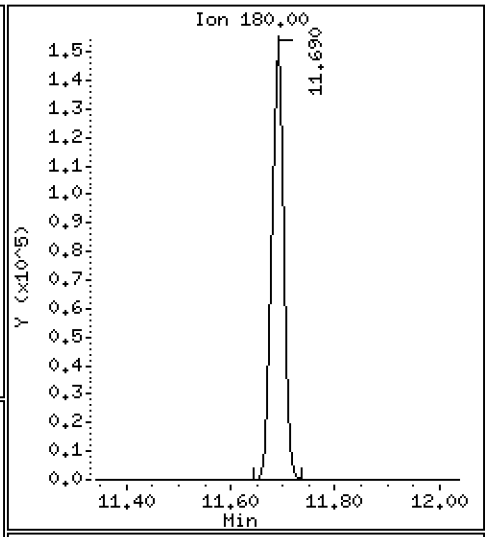
Column phase: ZB-5msi

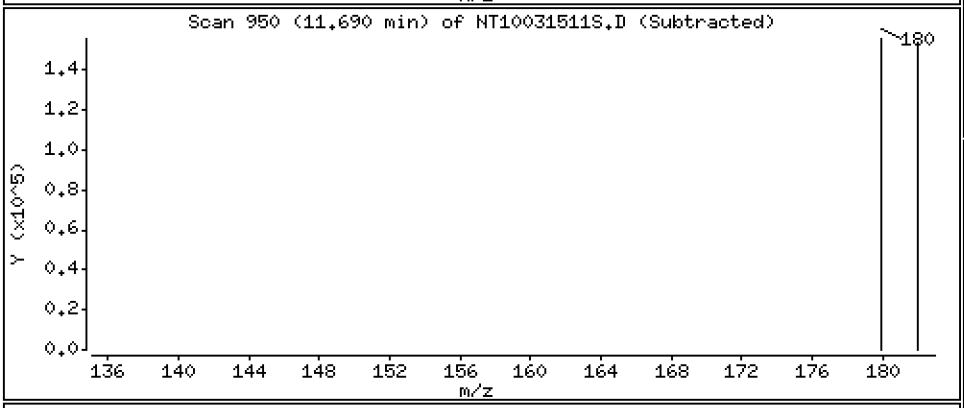
Column diameter: 0.25

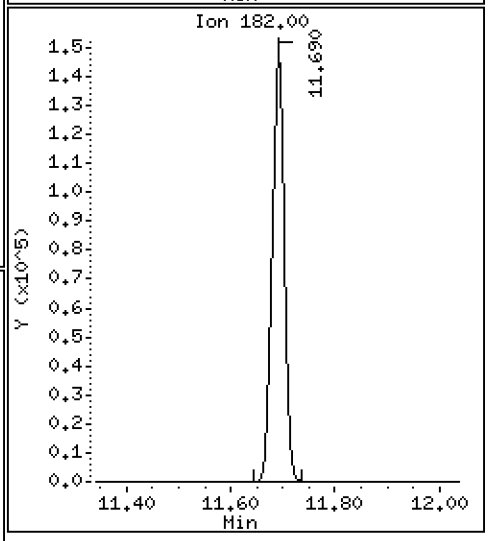
26 1,2,4-Trichlorobenzene

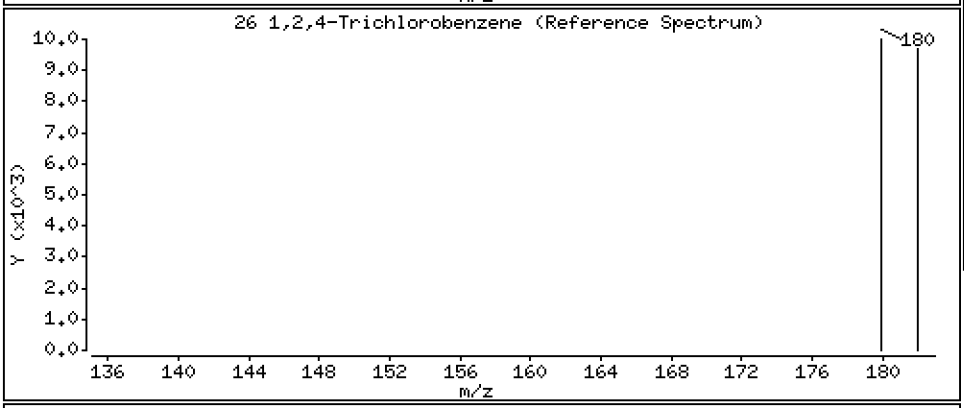
Concentration: 4.445 ug/L

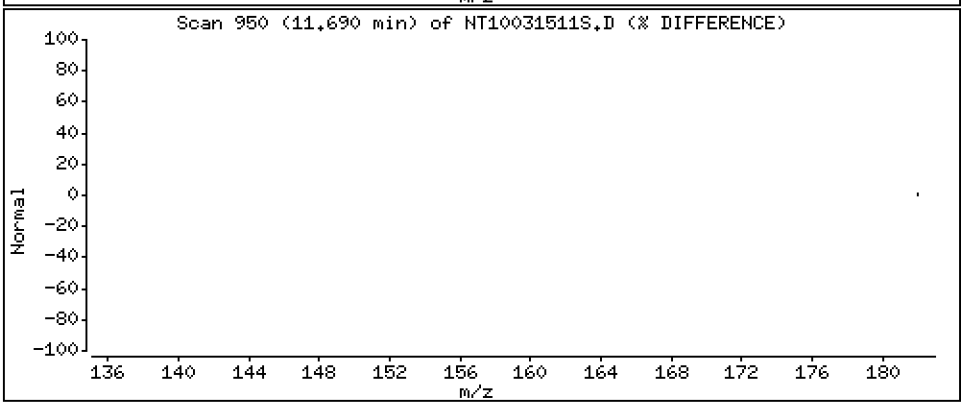












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

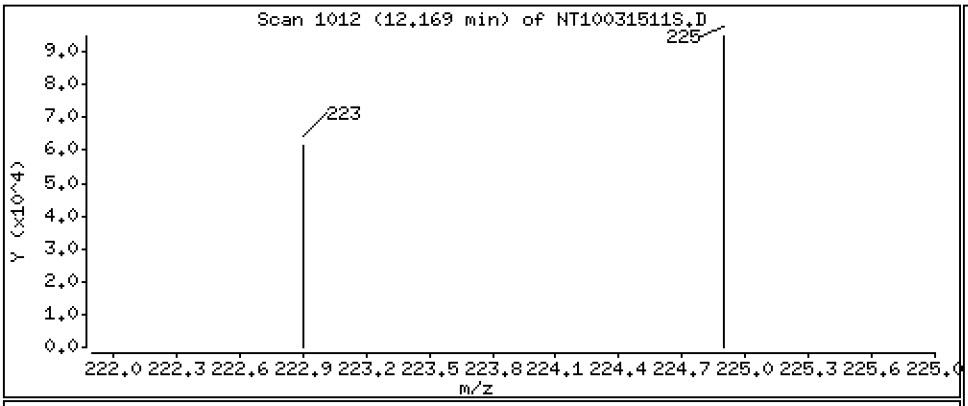
Operator: JGR

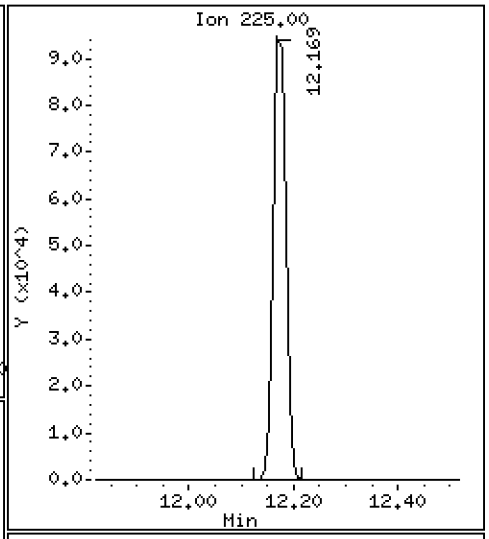
Column phase: ZB-5msi

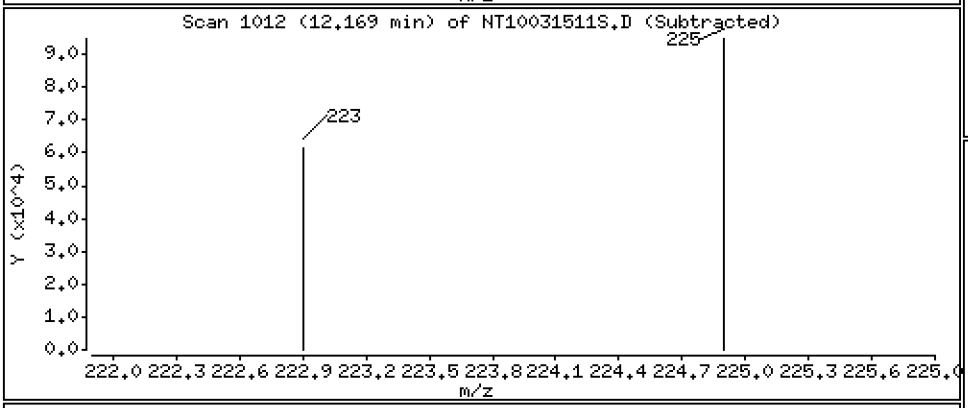
Column diameter: 0.25

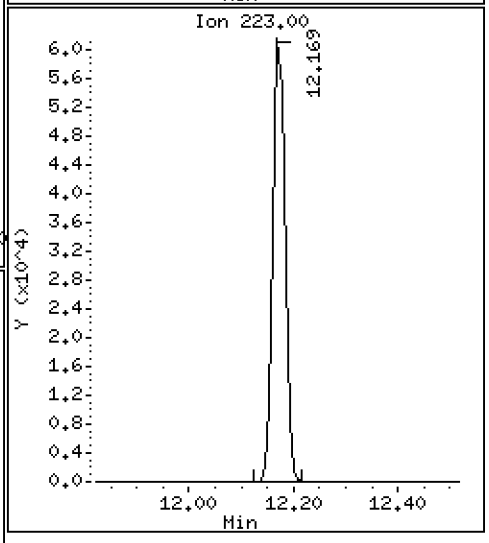
30 Hexachlorobutadiene

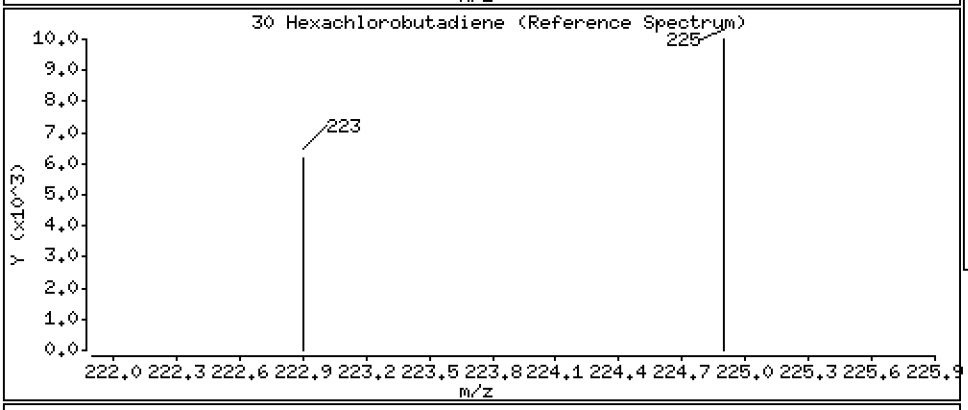
Concentration: 4.653 ug/L

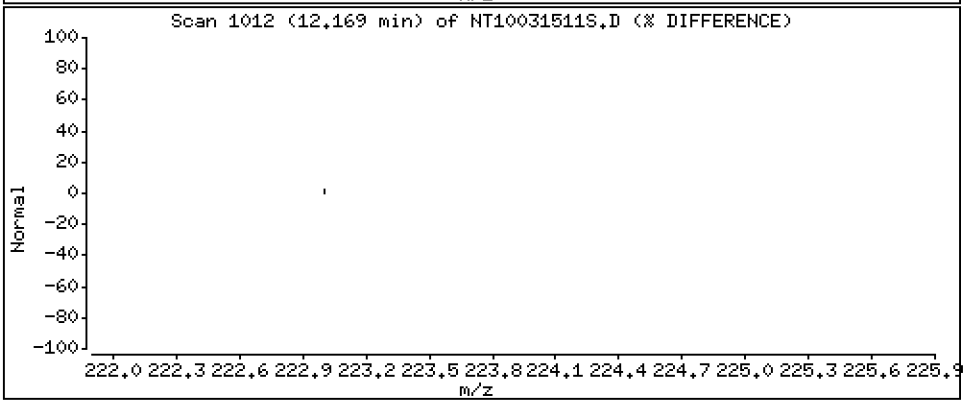












Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

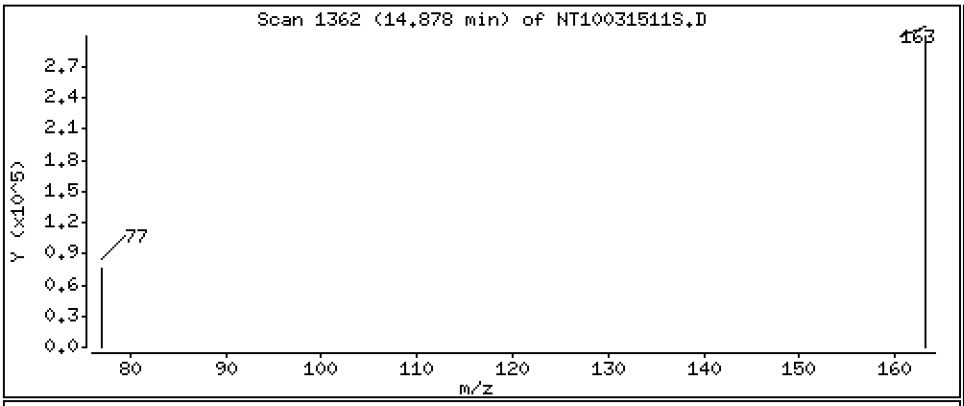
Operator: JGR

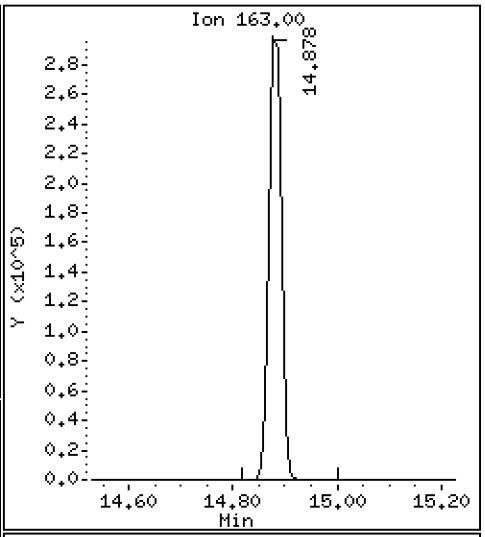
Column phase: ZB-5msi

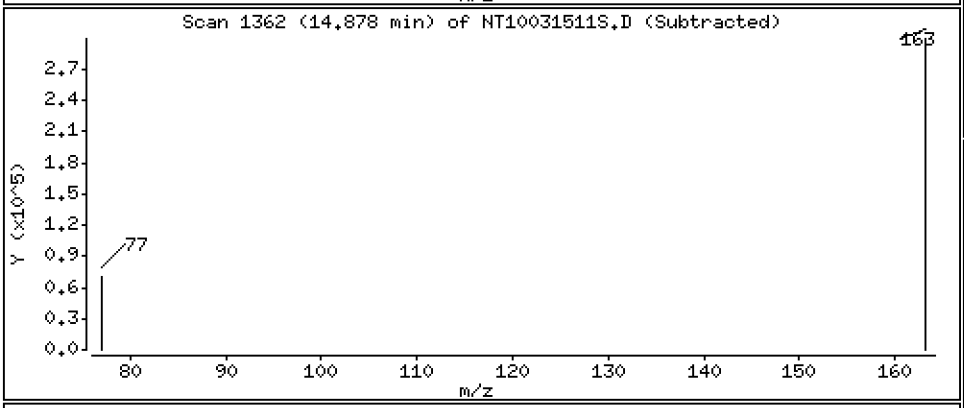
Column diameter: 0.25

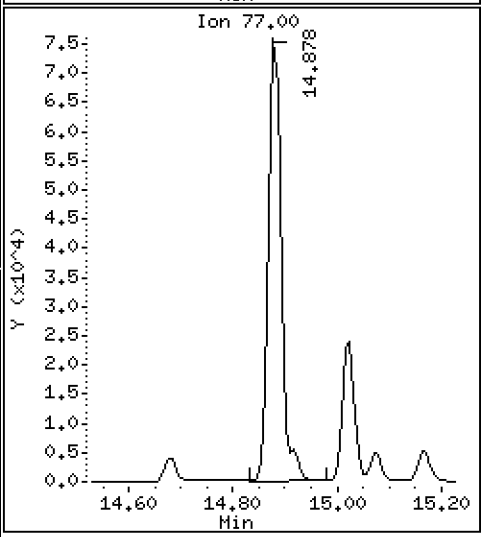
39 Dimethylphthalate

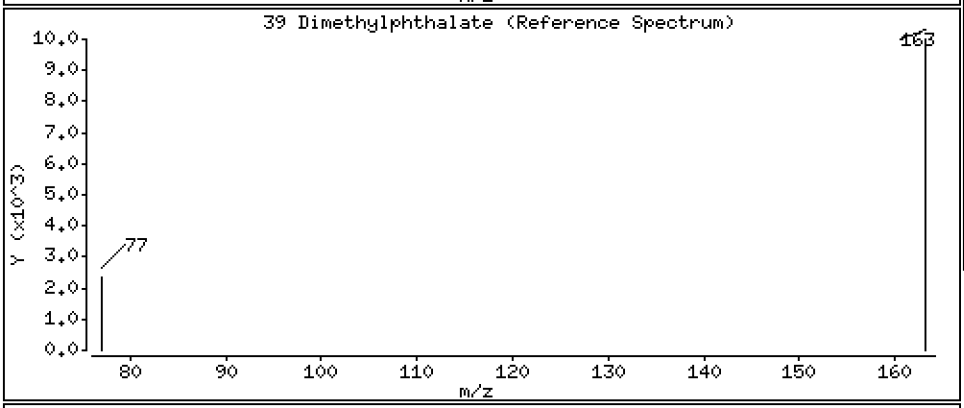
Concentration: 4.948 ug/L

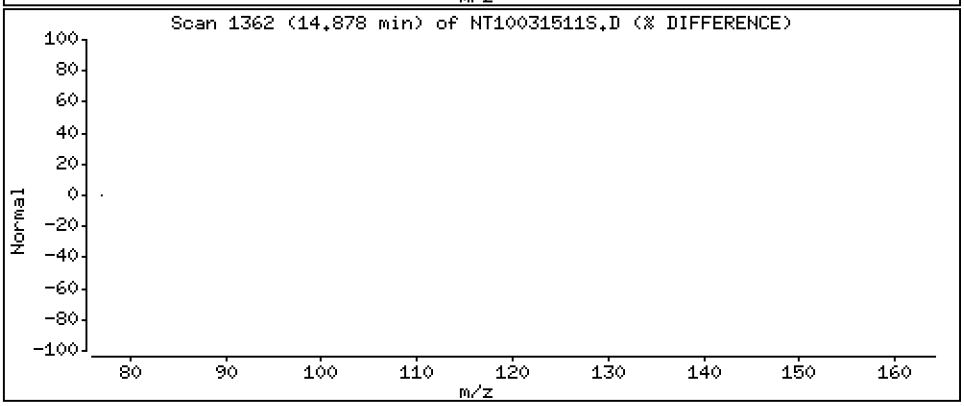












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

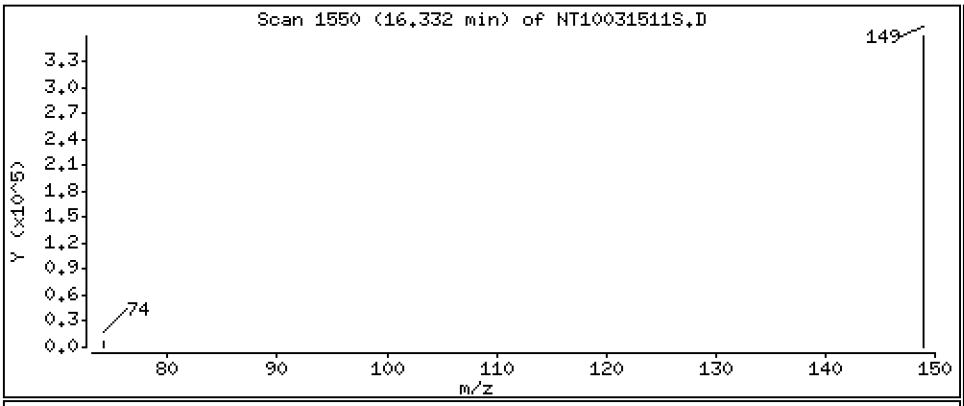
Operator: JGR

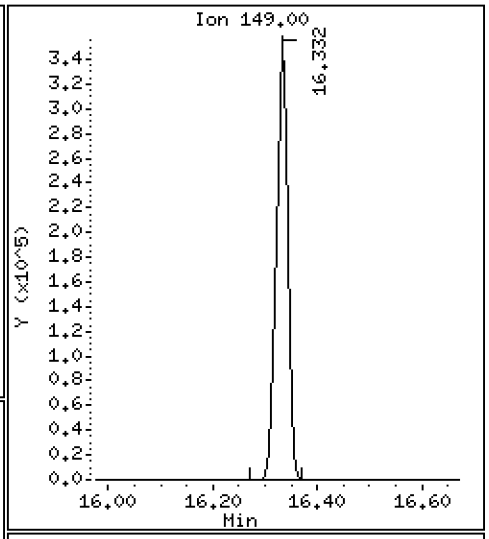
Column phase: ZB-5msi

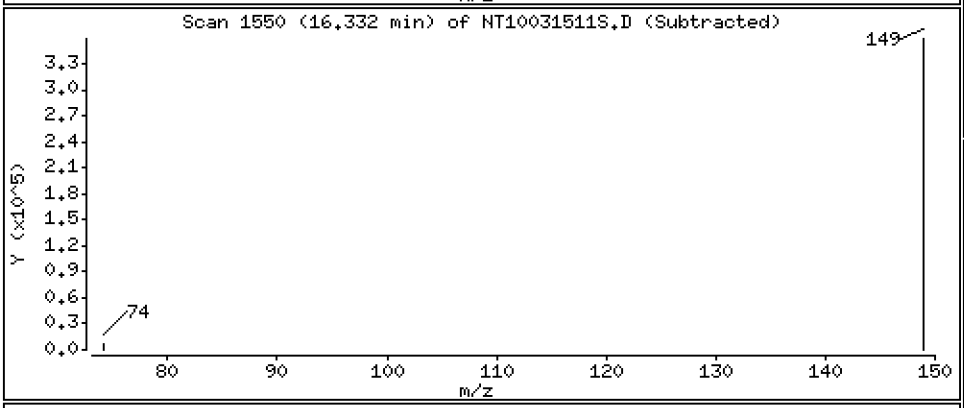
Column diameter: 0.25

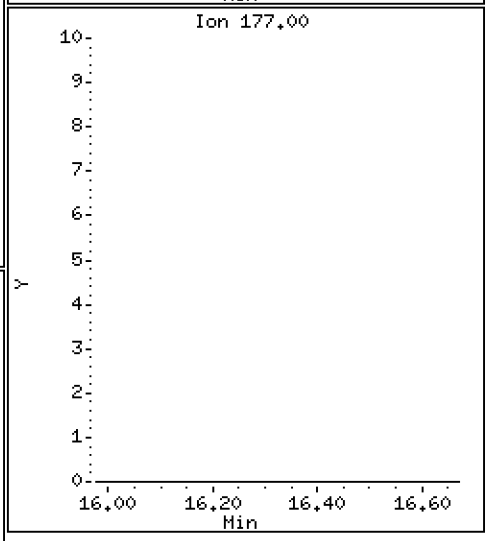
50 Diethylphthalate

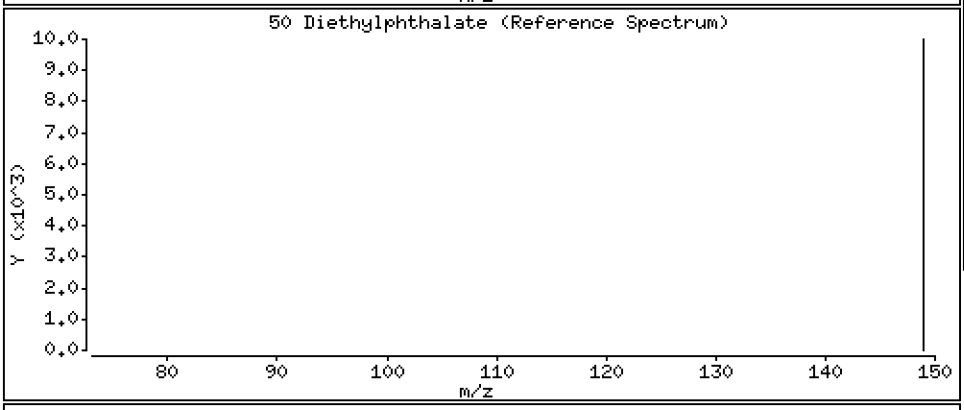
Concentration: 5.364 ug/L

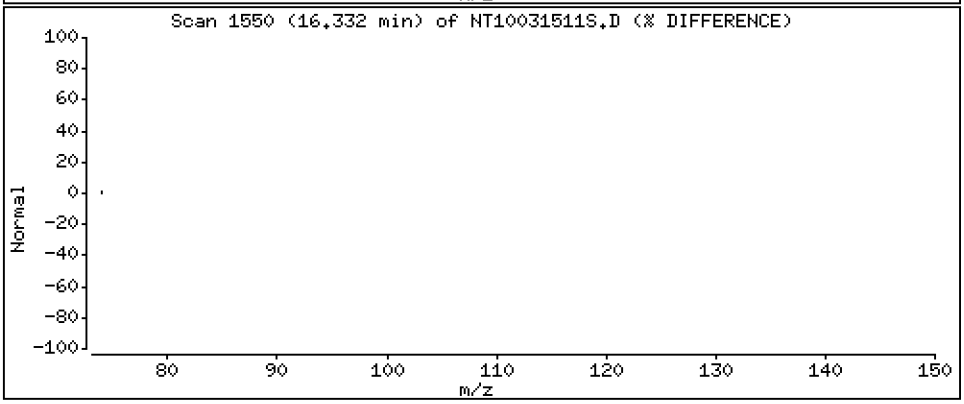












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

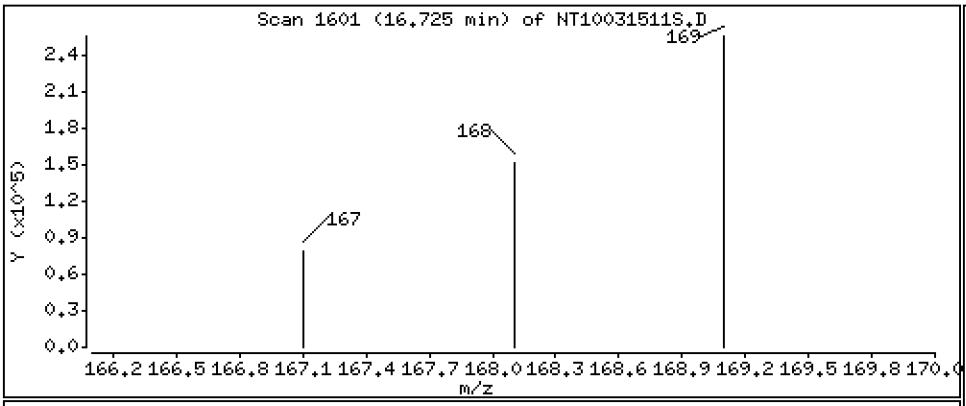
Operator: JGR

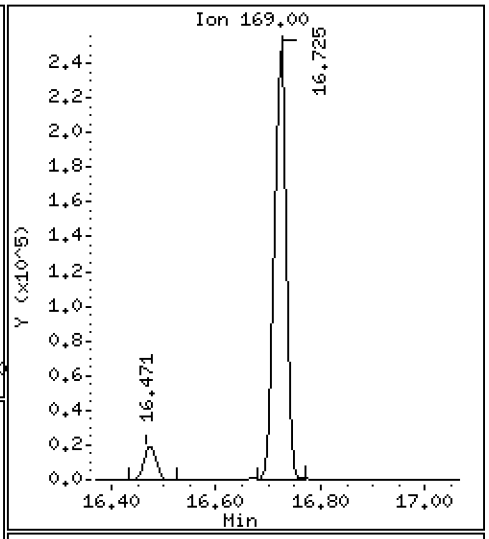
Column phase: ZB-5msi

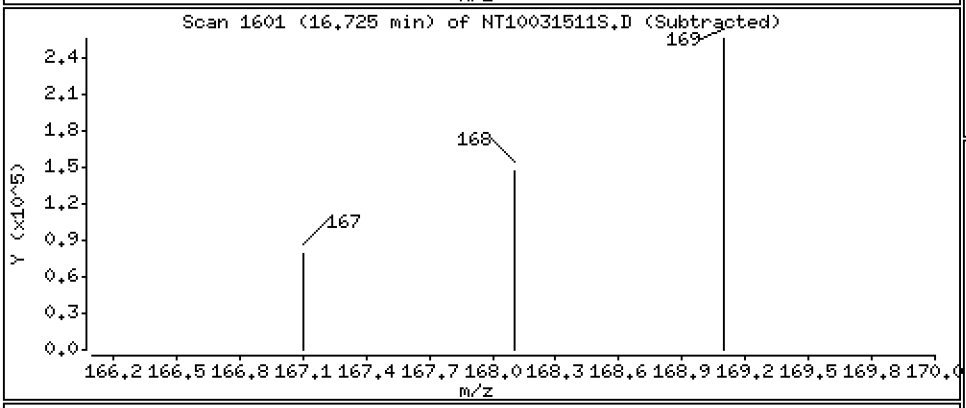
Column diameter: 0.25

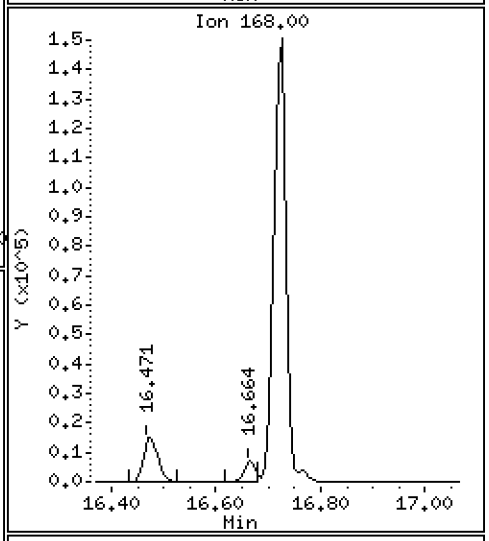
54 N-Nitrosodiphenylamine

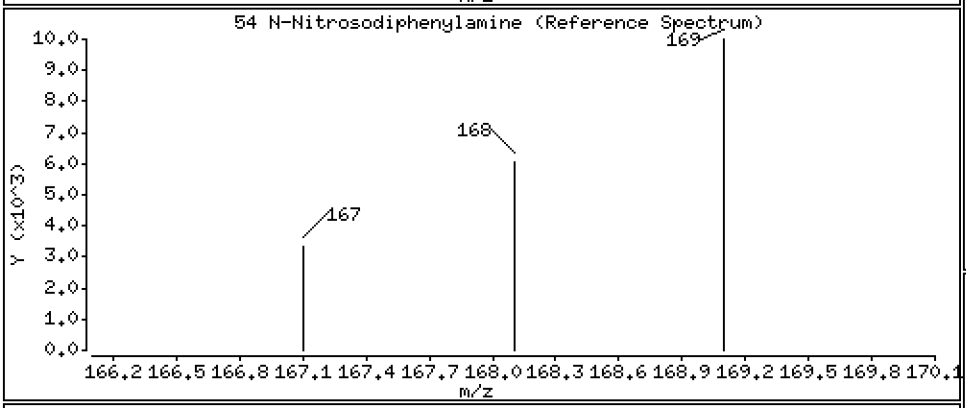
Concentration: 5.080 ug/L

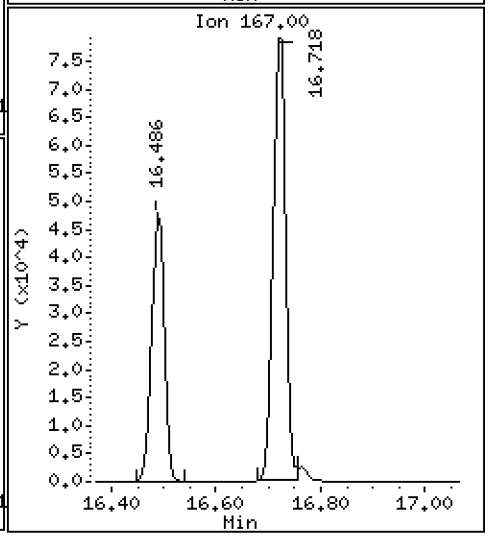


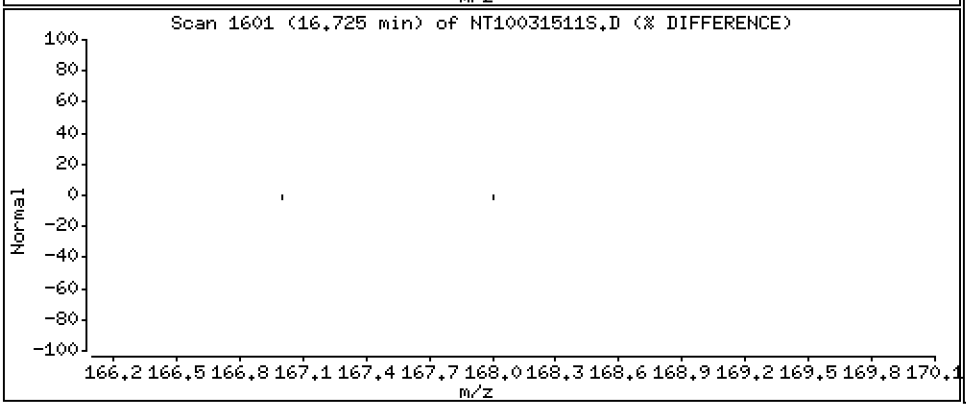












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

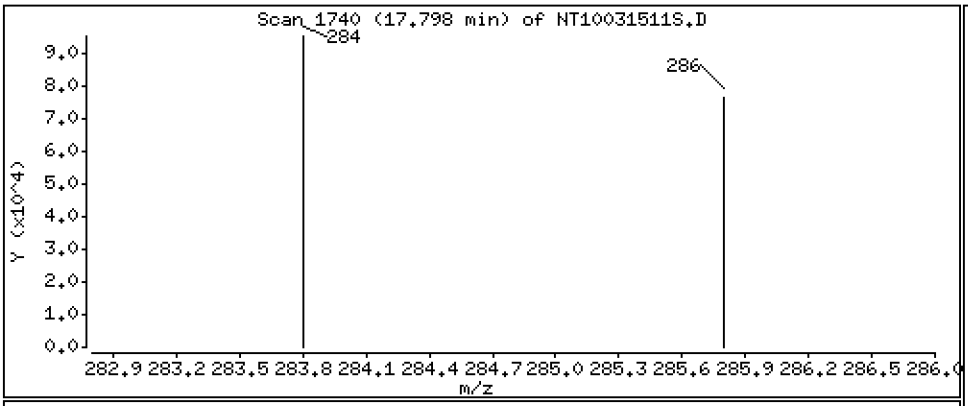
Operator: JGR

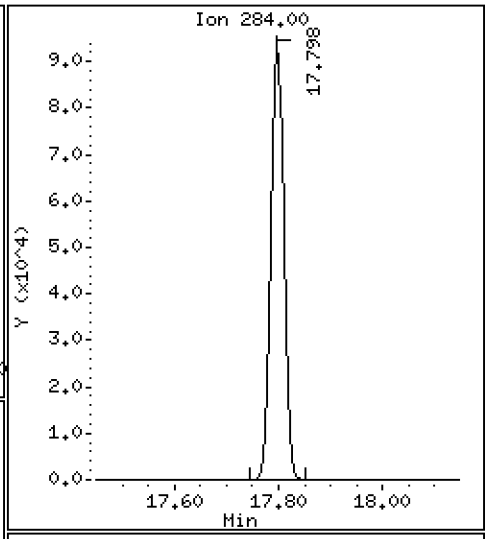
Column phase: ZB-5msi

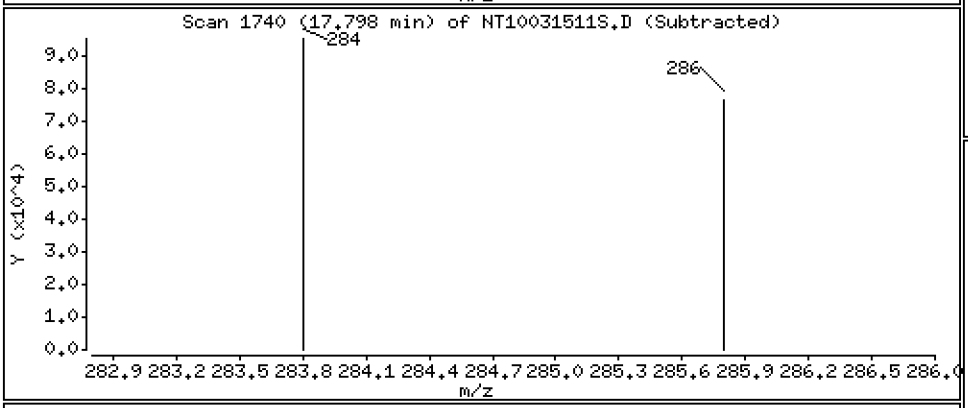
Column diameter: 0.25

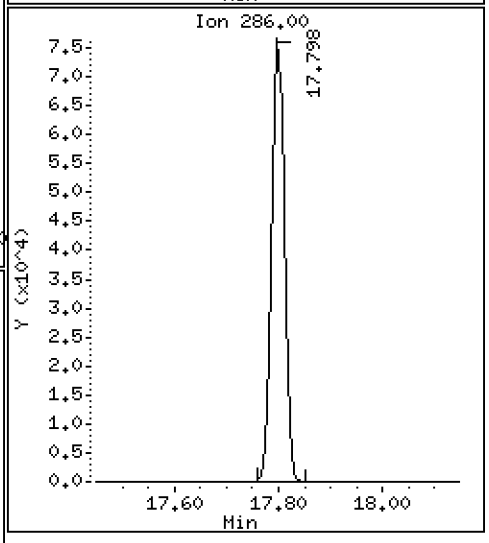
57 Hexachlorobenzene

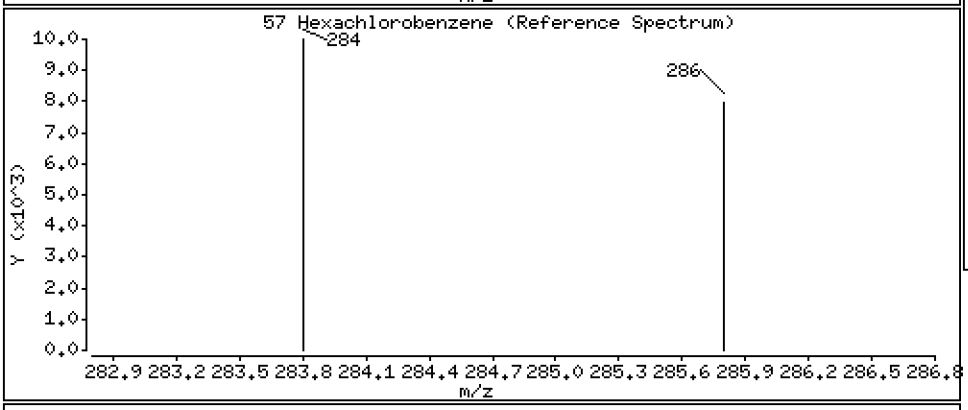
Concentration: 4.614 ug/L

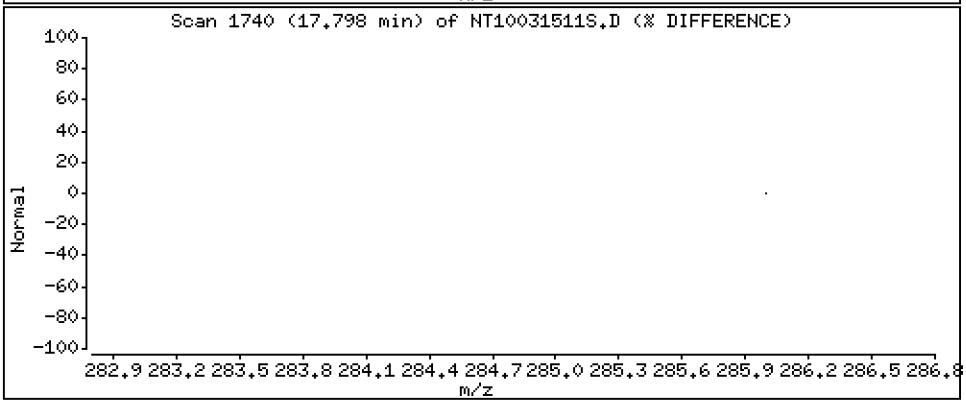












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

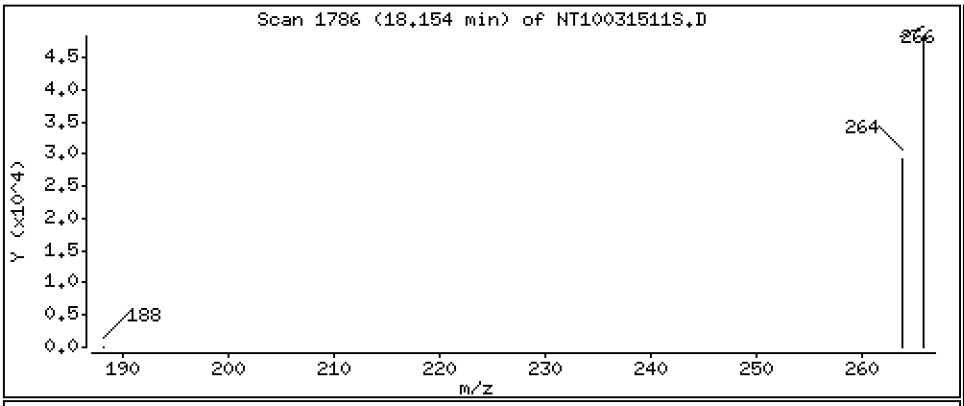
Operator: JGR

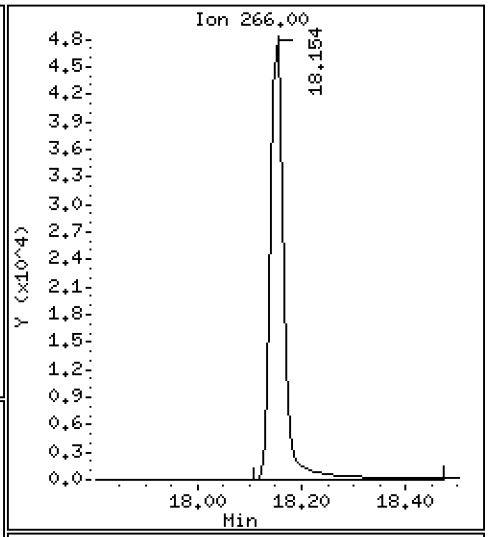
Column phase: ZB-5msi

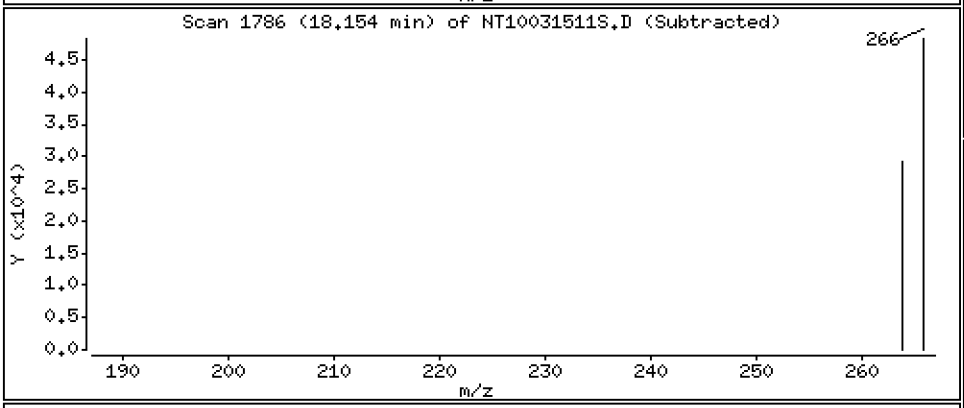
Column diameter: 0.25

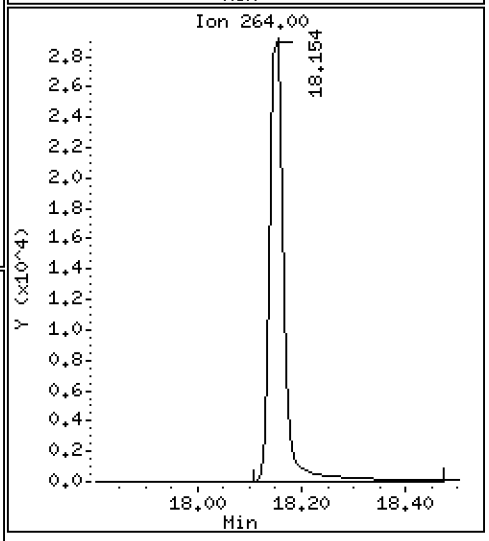
58 Pentachlorophenol

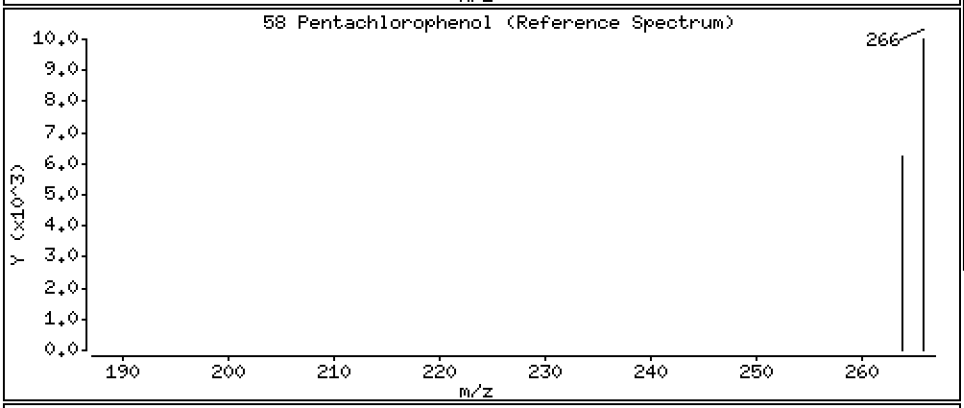
Concentration: 4.418 ug/L

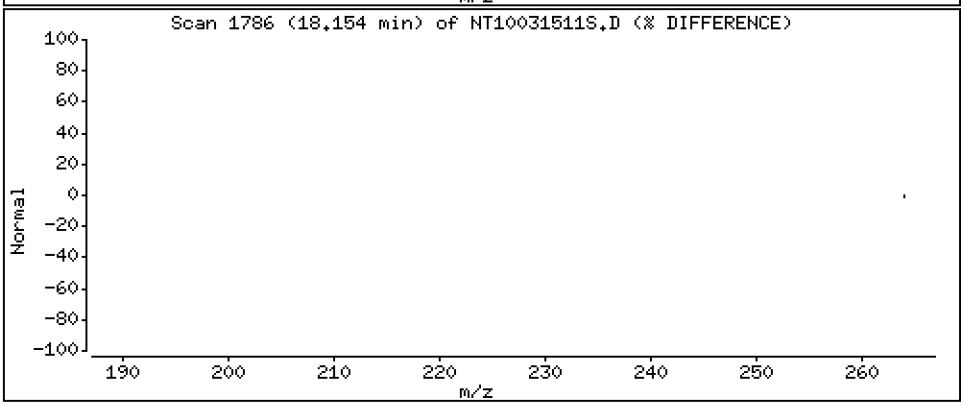












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

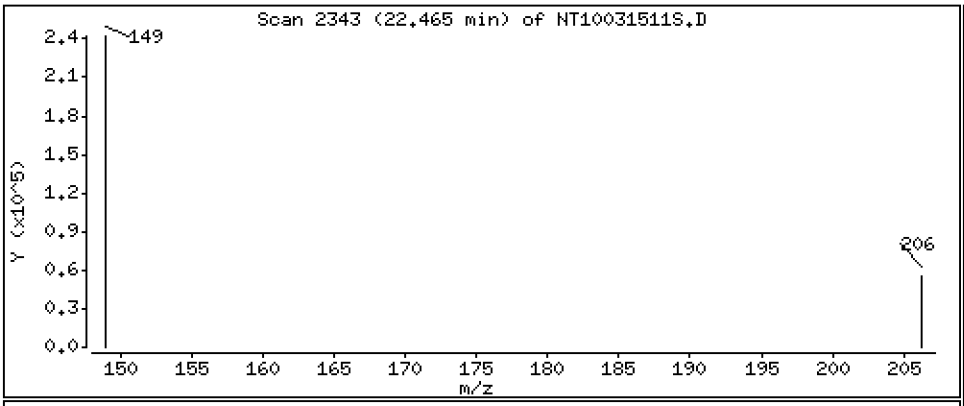
Operator: JGR

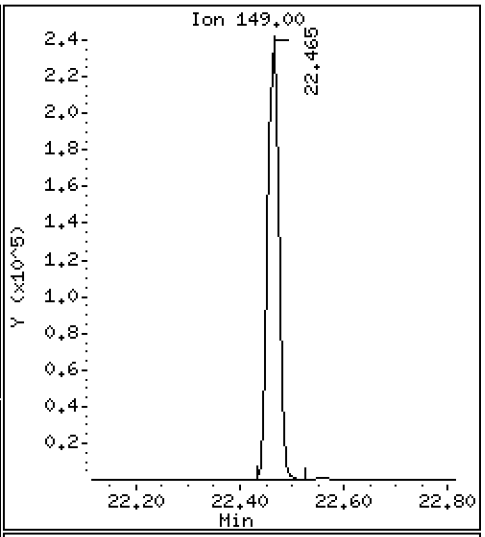
Column phase: ZB-5msi

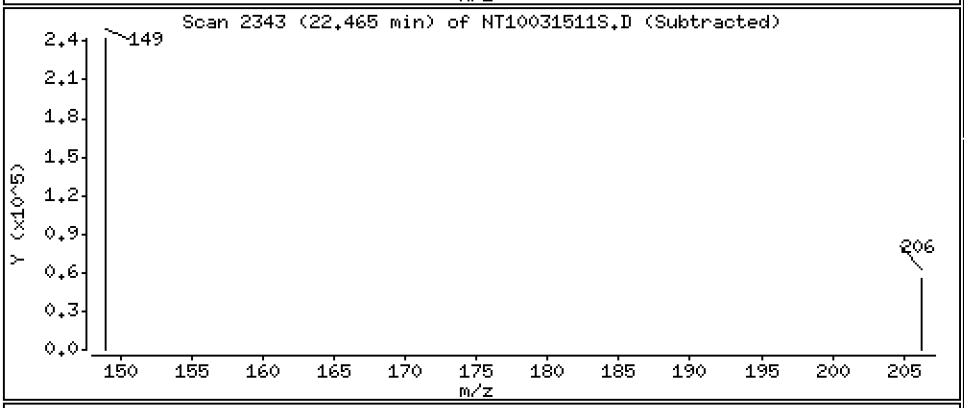
Column diameter: 0.25

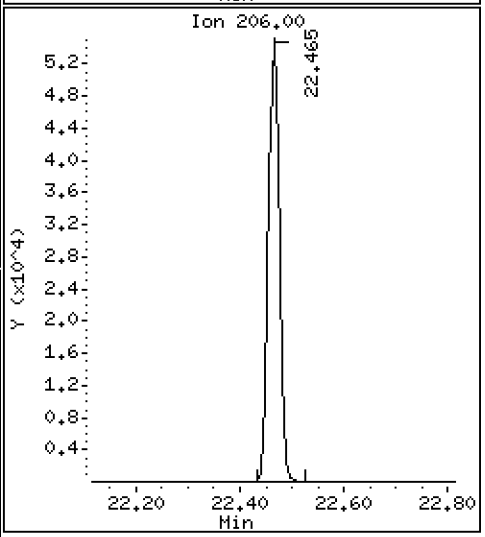
67 Butylbenzylphthalate

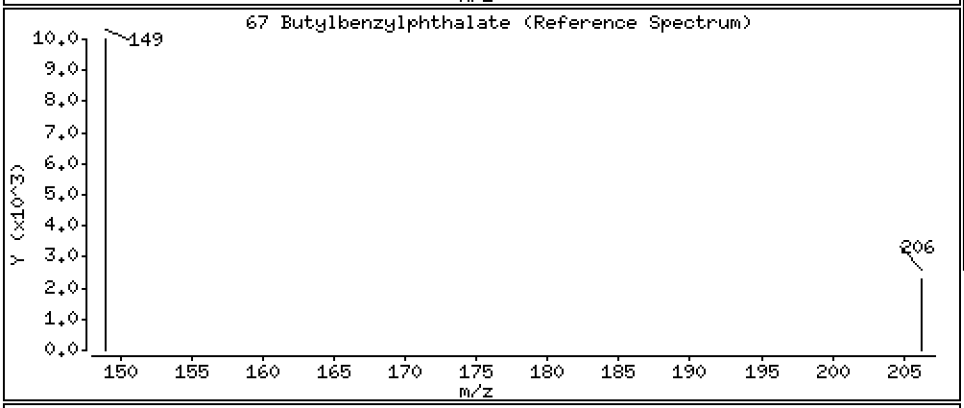
Concentration: 5.121 ug/L

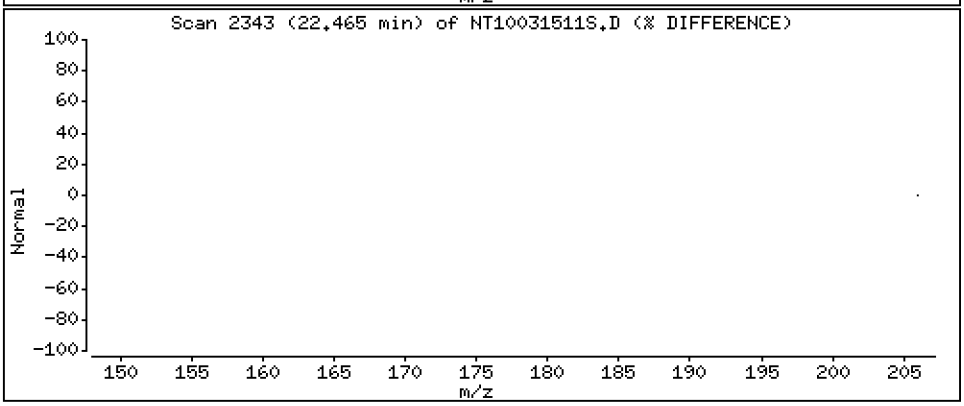












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

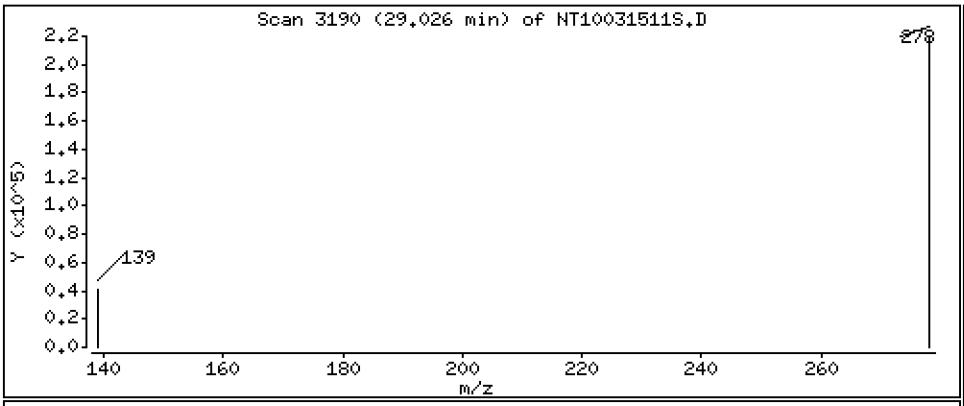
Operator: JGR

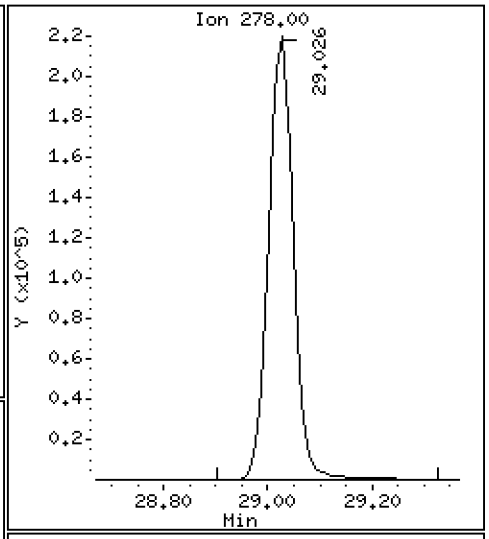
Column phase: ZB-5msi

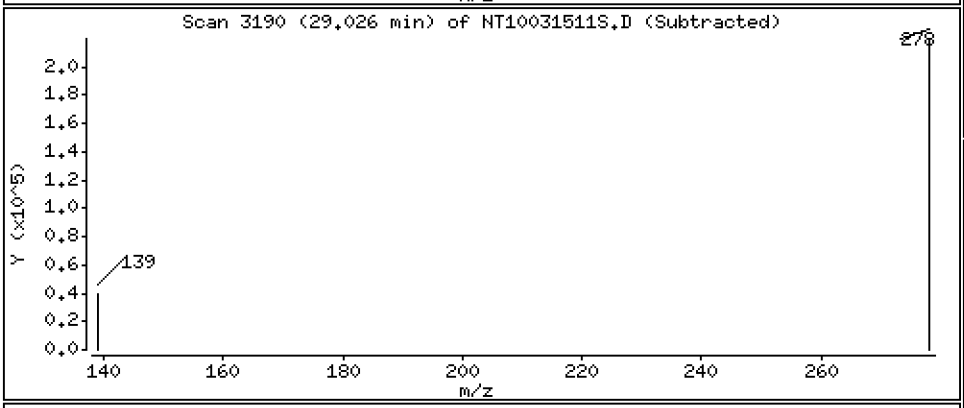
Column diameter: 0.25

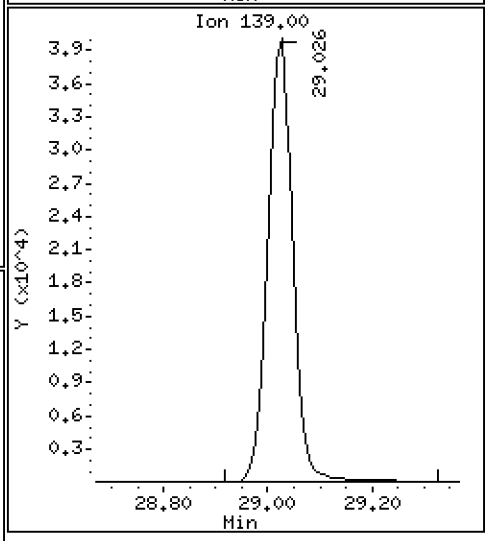
79 Dibenzo(a,h)anthracene

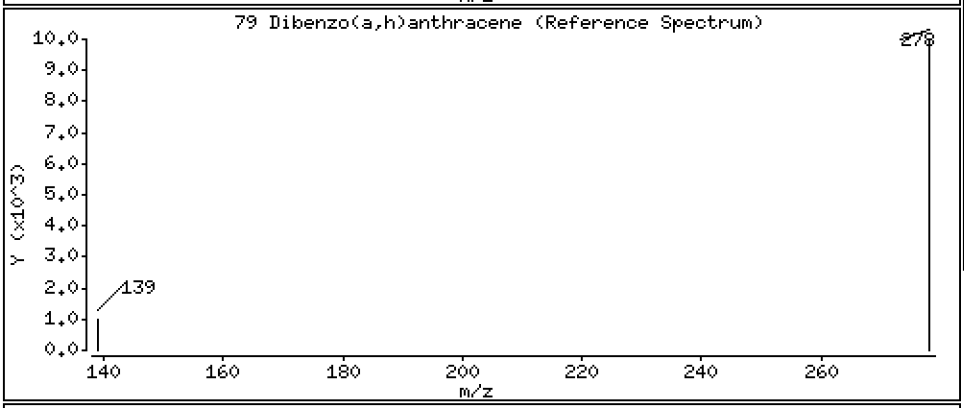
Concentration: 4.238 ug/L

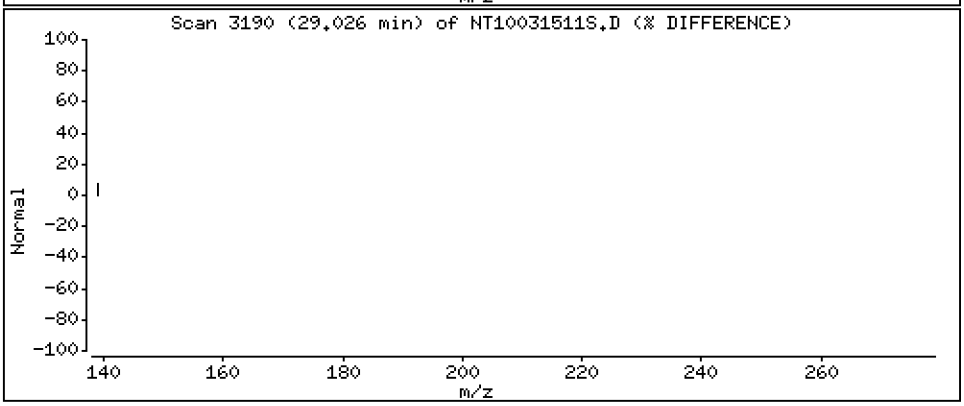












Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

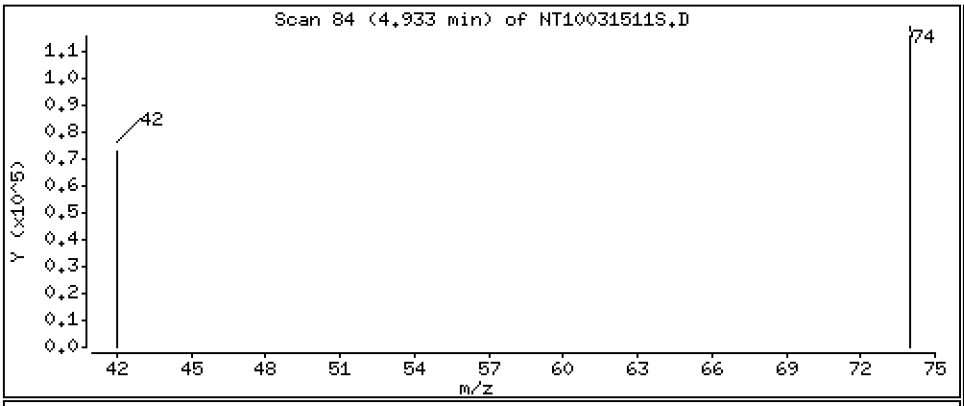
Operator: JGR

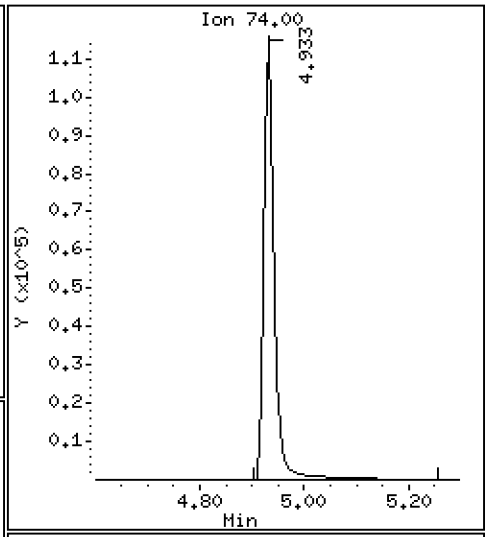
Column phase: ZB-5msi

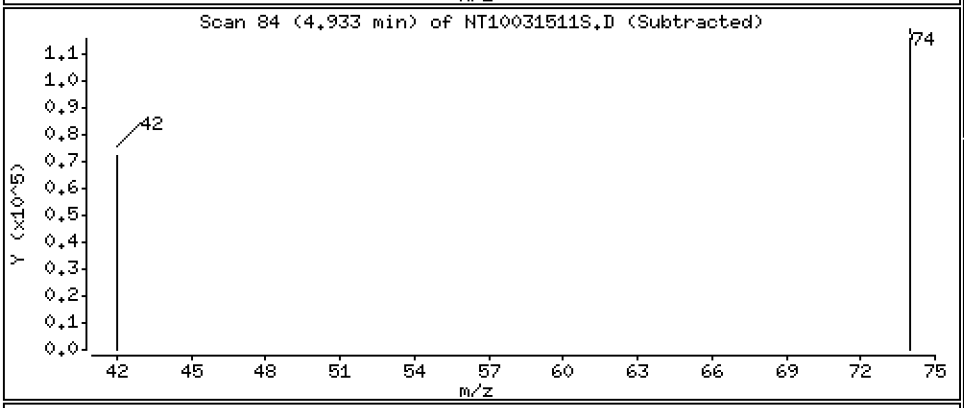
Column diameter: 0.25

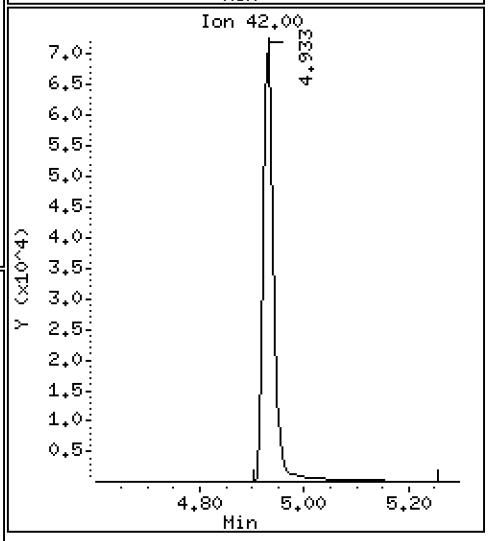
90 N-Nitrosodimethylamine

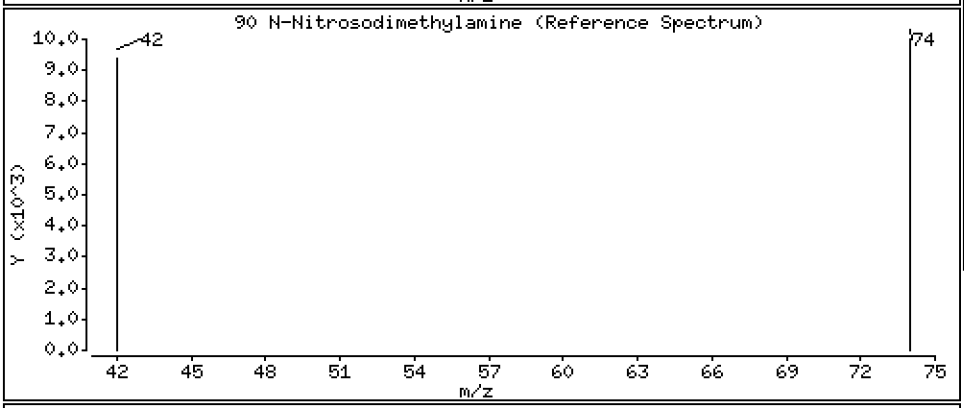
Concentration: 5.096 ug/L

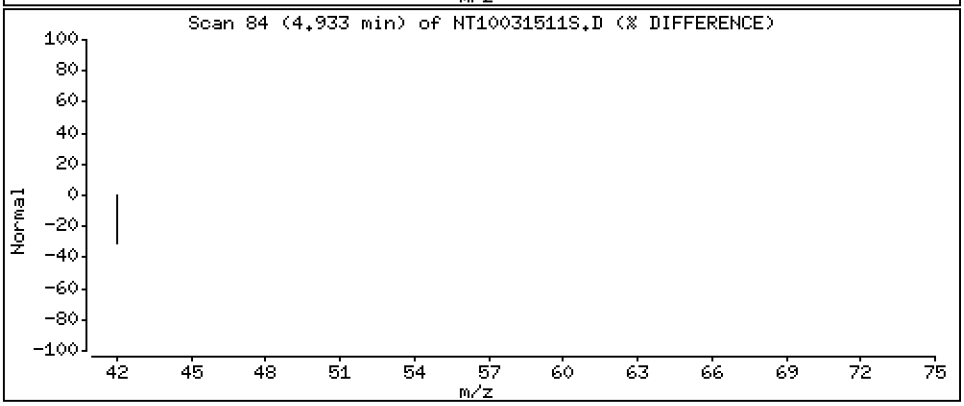












ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D
Lab Smp Id: SLC0238-SCV1
Inj Date : 16-MAR-2023 02:16 MS Autotune Date: 16-JAN-2023 17:42
Operator : JGR Inst ID: nt10.i
Smp Info : SLC0238-SCV1
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Meth Date : 16-Mar-2023 14:39 van Quant Type: ISTD
Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
$ 1	2-Fluorophenol	112	Compound Not Detected.					
3	Phenol	94	8.664	8.664	(0.931)	303581	4.37299	4.373
7	1,3-Dichlorobenzene	146	9.236	9.236	(0.992)	301605	4.64290	4.643
* 8	1,4-Dichlorobenzene-d4	152	9.306	9.298	(1.000)	166866	4.00000	
9	1,4-Dichlorobenzene	146	9.329	9.329	(1.002)	303390	4.83813	4.838
11	Benzyl alcohol	79	9.562	9.570	(1.028)	208505	5.18071	5.181
12	1,2-Dichlorobenzene	146	9.686	9.686	(1.041)	288539	4.67875	4.679
13	2-Methylphenol	108	9.772	9.772	(1.050)	201888	4.19698	4.197
15	4-Methylphenol	108	10.043	10.036	(1.079)	223083	4.46301	4.463
16	N-Nitroso-di-n-propylamine	70	10.121	10.113	(1.088)	186707	5.28174	5.282
22	2,4-Dimethylphenol	107	11.086	11.087	(0.942)	193654	3.66015	3.660
24	Benzoic acid	105	11.214	11.189	(0.952)	200487	6.74612	6.746
26	1,2,4-Trichlorobenzene	180	11.690	11.690	(0.993)	236605	4.44540	4.445
* 27	Naphthalene-d8	136	11.775	11.775	(1.000)	612104	4.00000	
30	Hexachlorobutadiene	225	12.169	12.169	(1.033)	150581	4.65339	4.653
39	Dimethylphthalate	163	14.877	14.877	(0.967)	472341	4.94766	4.948
* 42	Acenaphthene-d10	162	15.388	15.380	(1.000)	302524	4.00000	
50	Diethylphthalate	149	16.331	16.324	(1.061)	530540	5.36440	5.364
54	N-Nitrosodiphenylamine	169	16.725	16.717	(0.908)	377357	5.08034	5.080
57	Hexachlorobenzene	284	17.798	17.798	(0.966)	153405	4.61353	4.614

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	58 Pentachlorophenol	266	18.154	18.154	(0.985)	83223	4.41780	4.418
*	59 Phenanthrene-d10	188	18.425	18.417	(1.000)	553619	4.00000	
$	66 Terphenyl-d14	244	21.543	21.543	(0.918)	117	0.00154	0.001543(RM)
	67 Butylbenzylphthalate	149	22.464	22.465	(0.958)	332887	5.12147	5.121
*	69 Chrysene-d12	240	23.455	23.455	(1.000)	465428	4.00000	
*	77 Perylene-d12	264	26.188	26.188	(1.000)	532593	4.00000	
	79 Dibenzo(a,h)anthracene	278	29.026	29.019	(1.108)	722983	4.23762	4.238
	90 N-Nitrosodimethylamine	74	4.933	4.948	(0.530)	163555	5.09625	5.096

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT10031511S.D
Lab Smp Id: SLC0238-SCV1
Analysis Type: SV
Quant Type: ISTD
Operator: JGR
Method File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Misc Info:

Calibration Date: 15-MAR-2023
Calibration Time: 23:06
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	188081	94041	376162	166866	-11.28
27 Naphthalene-d8	674549	337275	1349098	612104	-9.26
42 Acenaphthene-d10	328275	164138	656550	302524	-7.84
59 Phenanthrene-d10	597140	298570	1194280	553619	-7.29
69 Chrysene-d12	466503	233252	933006	465428	-0.23
77 Perylene-d12	518203	259102	1036406	532593	2.78

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.30	8.80	9.80	9.31	0.08
27 Naphthalene-d8	11.77	11.27	12.27	11.78	0.01
42 Acenaphthene-d10	15.39	14.89	15.89	15.39	0.01
59 Phenanthrene-d10	18.42	17.92	18.92	18.43	0.00
69 Chrysene-d12	23.45	22.95	23.95	23.46	0.00
77 Perylene-d12	26.19	25.69	26.69	26.19	0.00

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

REVIEW SUMMARY FOR FILE - NT10031511S.D

Lab ID: SLC0238-SCV1
nt10.i, 20230315.b\20230315.b\SIMABN2.m,   16-MAR-2023 02:16

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.952	0.000	0.9524	Benzoic acid

RRT check based on Ccal File: 20230315.b/NT10031510S.D

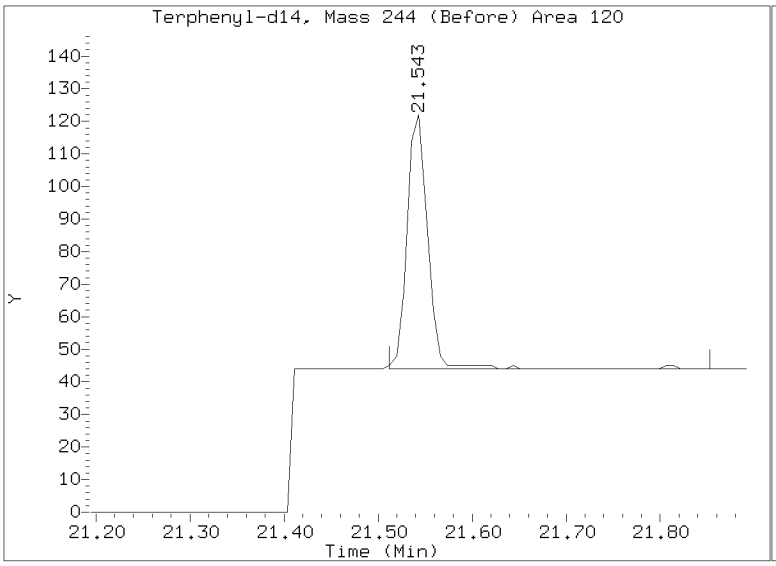
On Column LOD for nt10.i, 20230315.b\SIMABN2.m, PSDDA.sub = 0.0000

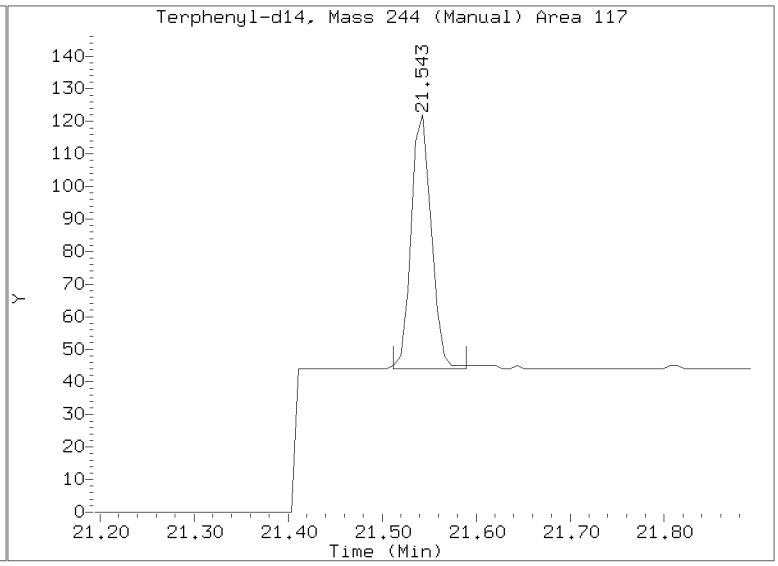
Exception: 1,2,4-Trichlorobenzene 0.0010

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230315.b/20230315.b/NT10031511S.D
Injection Date: 16-MAR-2023 02:16
Lab ID:SLC0238-SCV1 Client ID:
Report Date: 03/16/2023 14:49





SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8270E-SIM

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GC00049
Laboratory ID: SLC0238-SCV1
Sequence: SLC0238
Standard ID: K010066

ANALYTE	EXPECTED (ug/mL)	FOUND (ug/mL)	% DRIFT	QC LIMIT
1,4-Dichlorobenzene	5.0000	4.8	-3.2	20.00
1,2-Dichlorobenzene	5.0000	4.7	-6.4	20.00
Benzyl Alcohol	5.0000	5.2	3.6	20.00
Benzoic acid	10.000	6.7	-32.5 *	20.00
2,4-Dimethylphenol	5.0000	3.7	-26.8 *	20.00
1,2,4-Trichlorobenzene	5.0000	4.4	-11.1	20.00
N-Nitrosodiphenylamine	5.0000	5.1	1.6	20.00
Pentachlorophenol	5.0000	4.4	-11.6	20.00
2-Fluorophenol	7.5000	0.00		
p-Terphenyl-d14	5.0000	0.00154	-100	

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

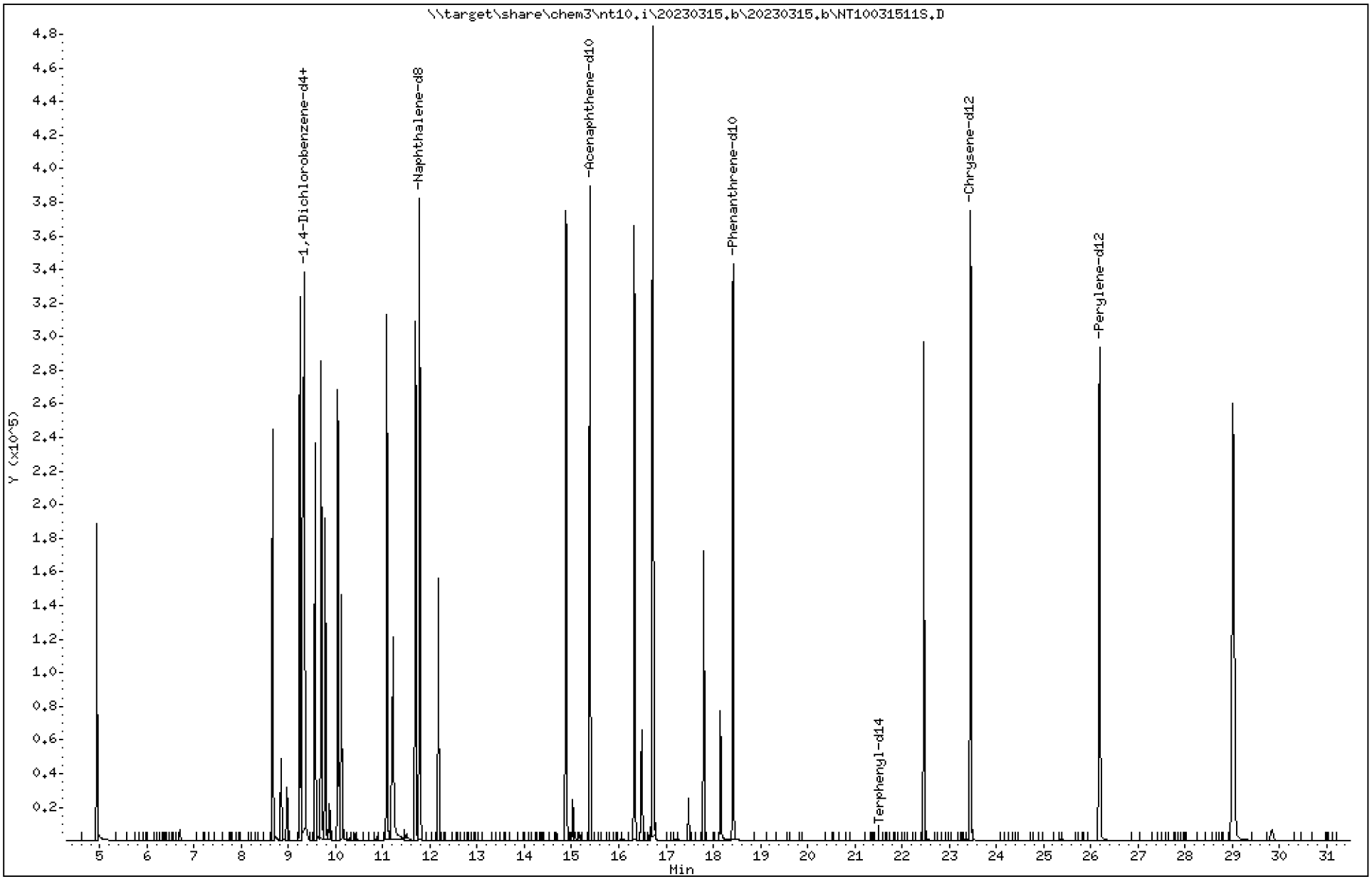
Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25



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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

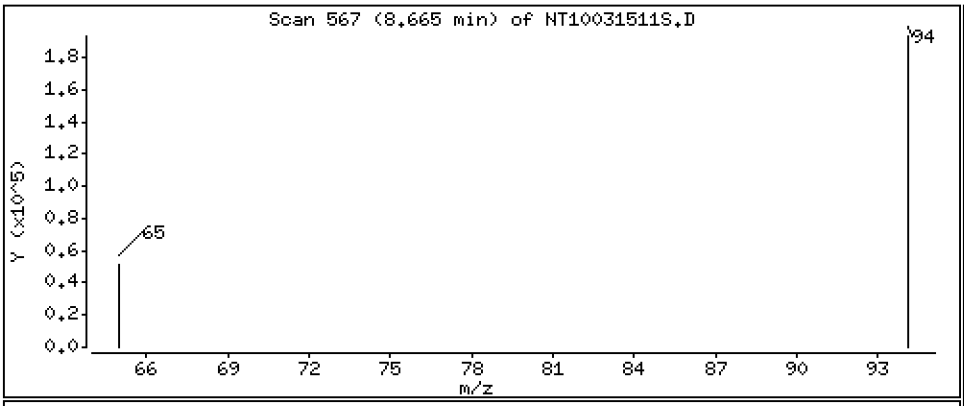
Operator: JGR

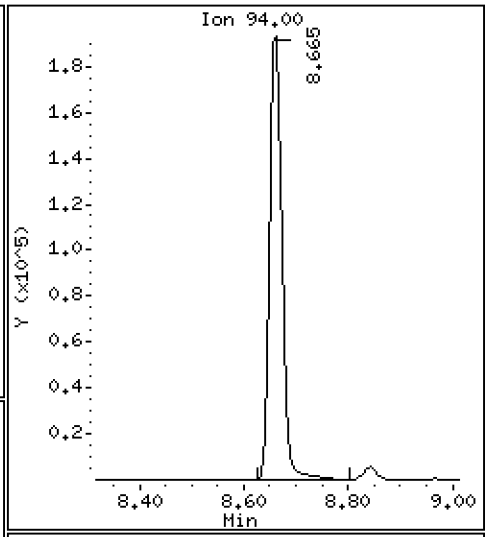
Column phase: ZB-5msi

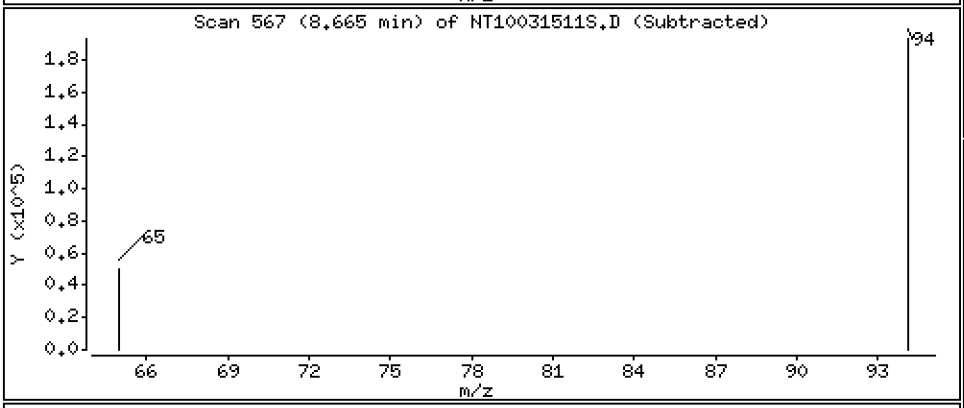
Column diameter: 0.25

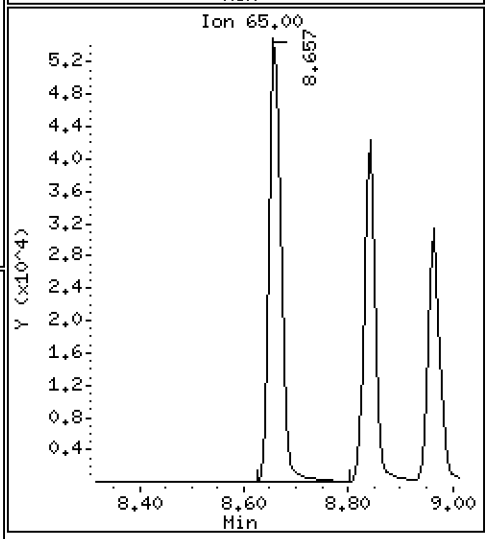
3 Phenol

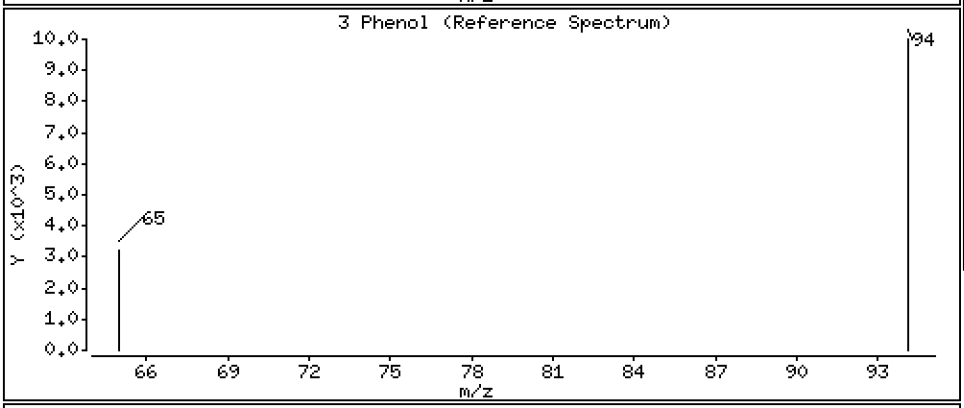
Concentration: 4.373 ug/L

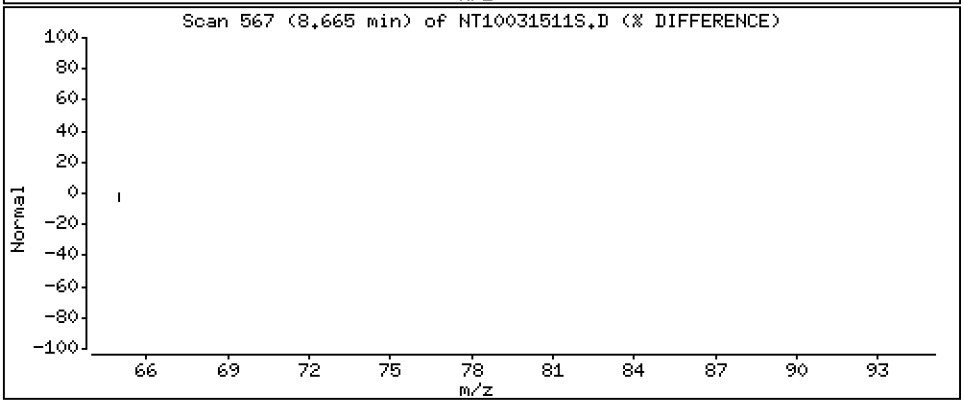












Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

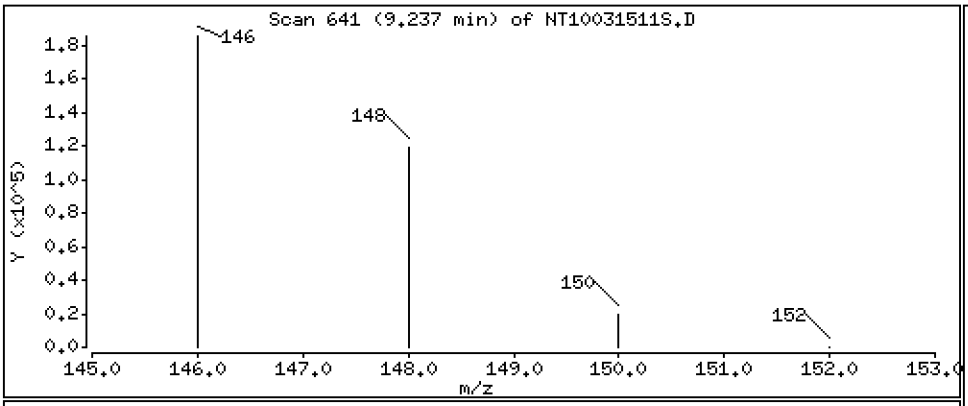
Operator: JGR

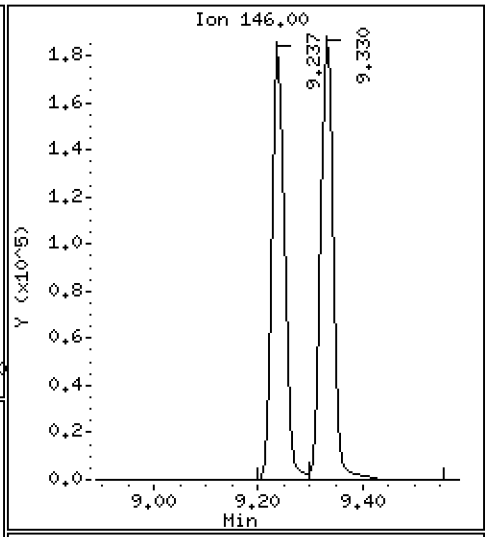
Column phase: ZB-5msi

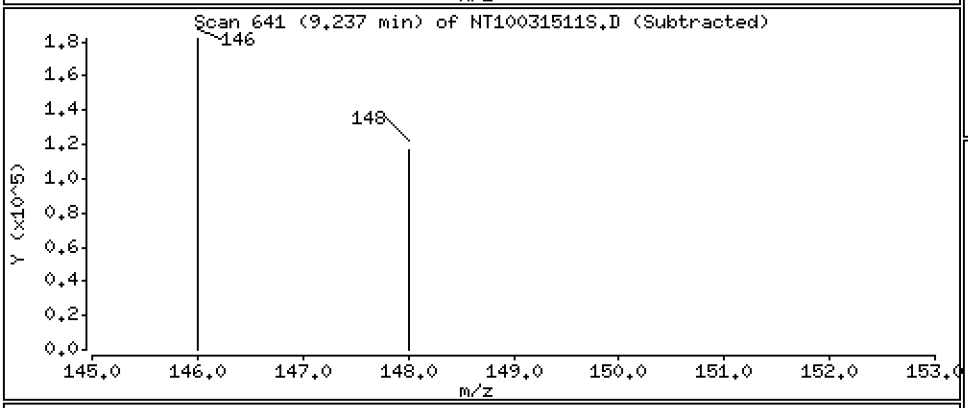
Column diameter: 0.25

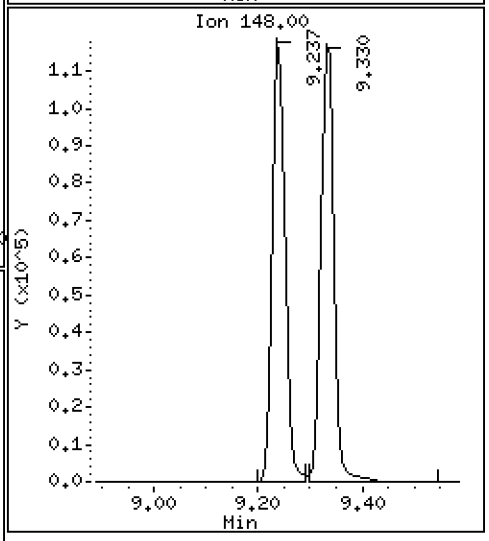
7 1,3-Dichlorobenzene

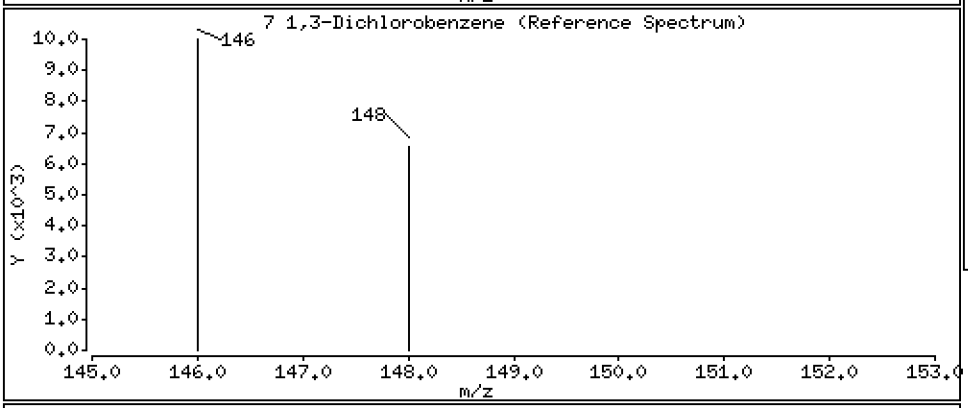
Concentration: 4.643 ug/L

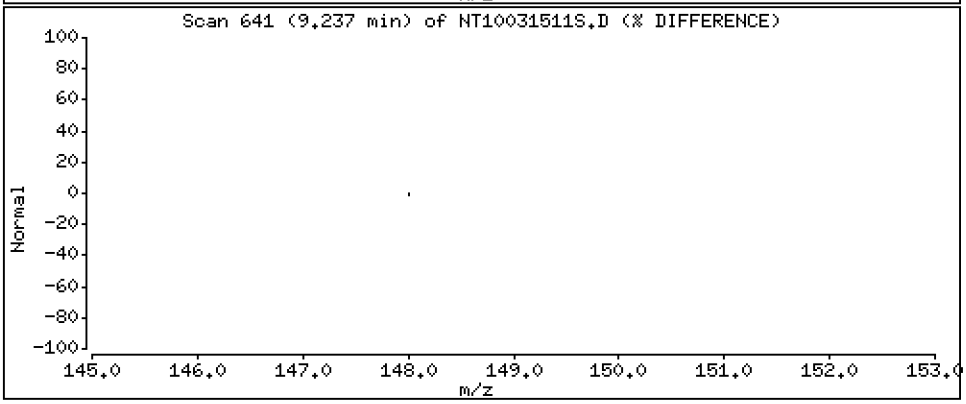












Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

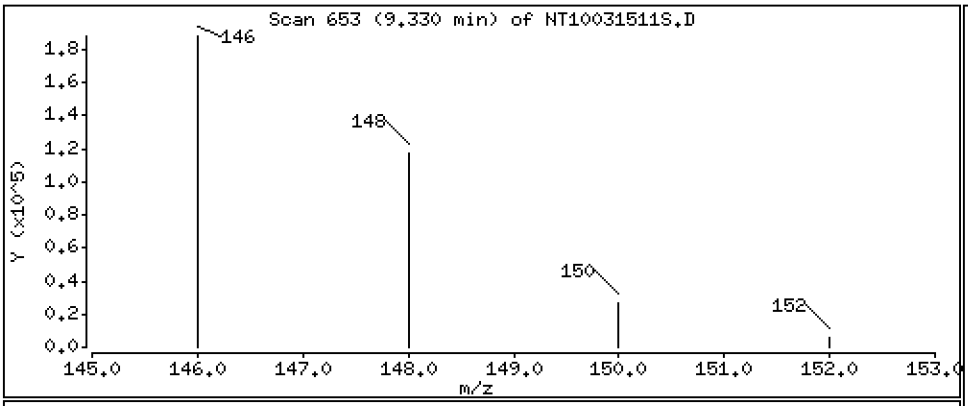
Operator: JGR

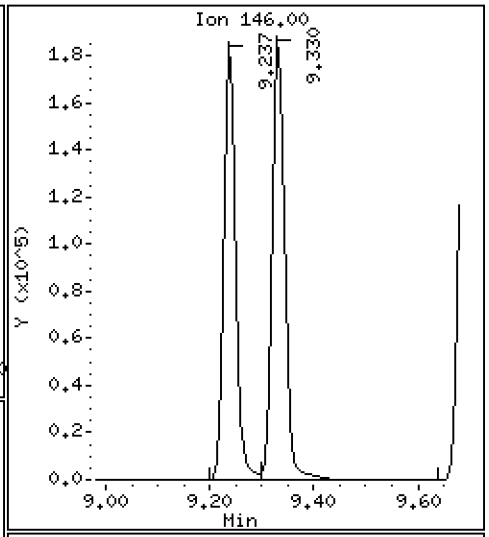
Column phase: ZB-5msi

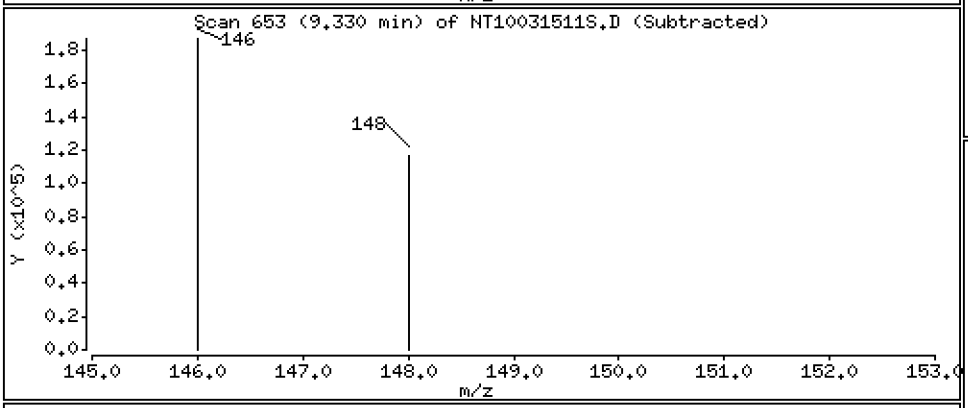
Column diameter: 0.25

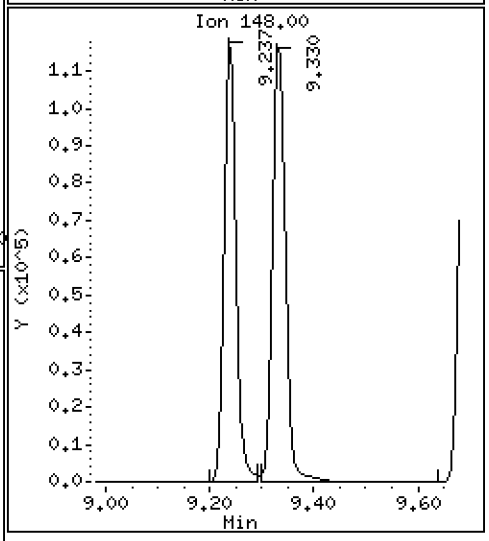
9 1,4-Dichlorobenzene

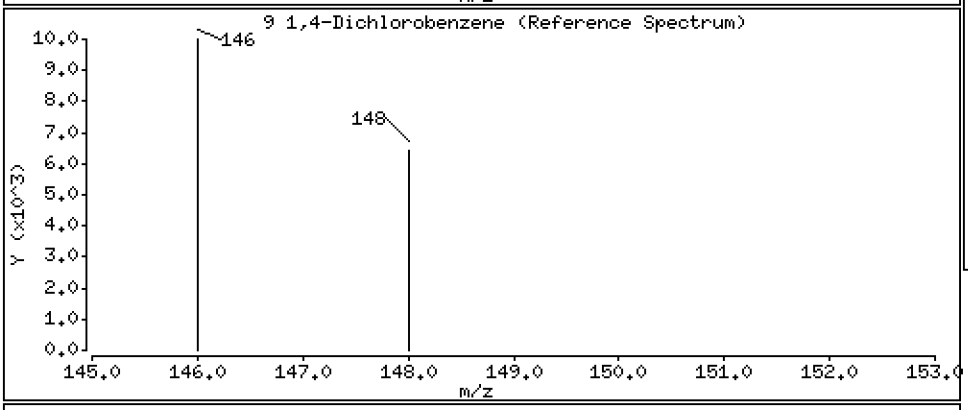
Concentration: 4.838 ug/L

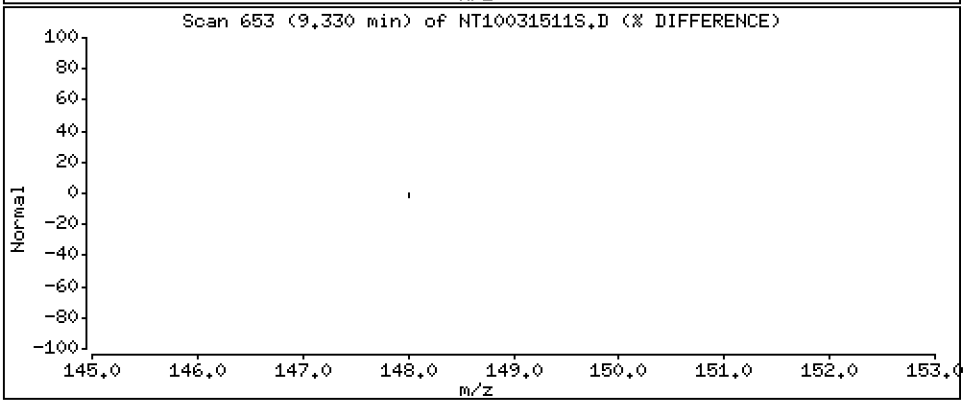












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

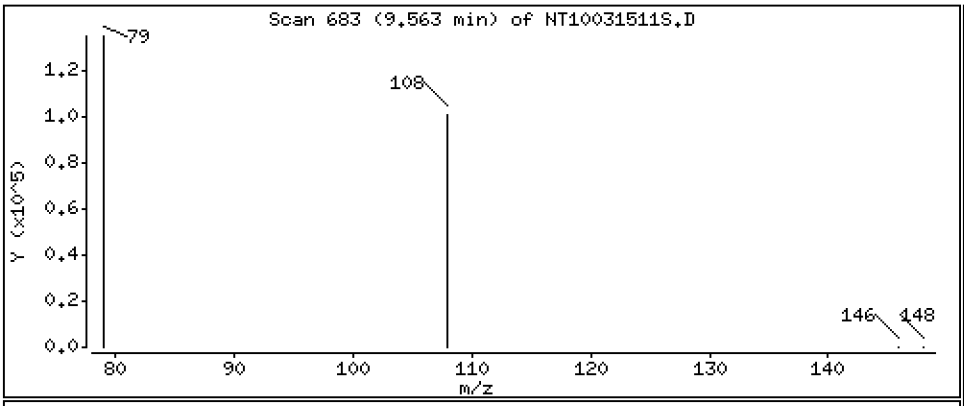
Operator: JGR

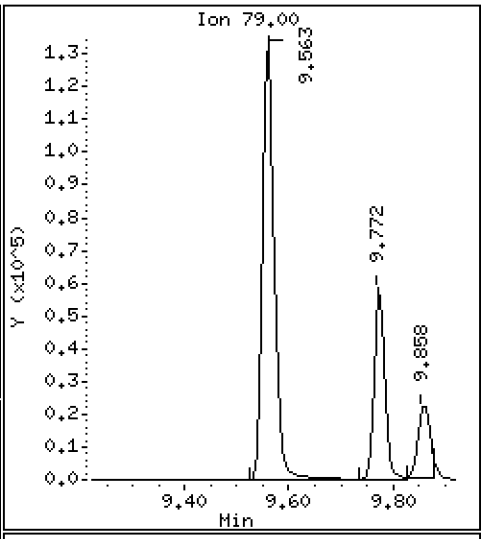
Column phase: ZB-5msi

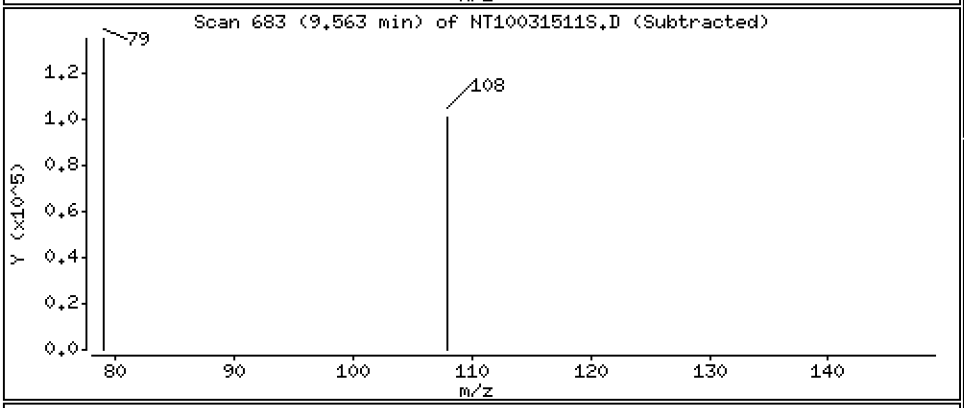
Column diameter: 0.25

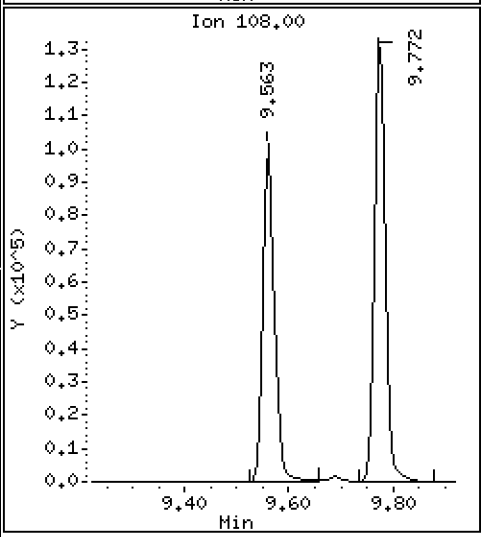
11 Benzyl alcohol

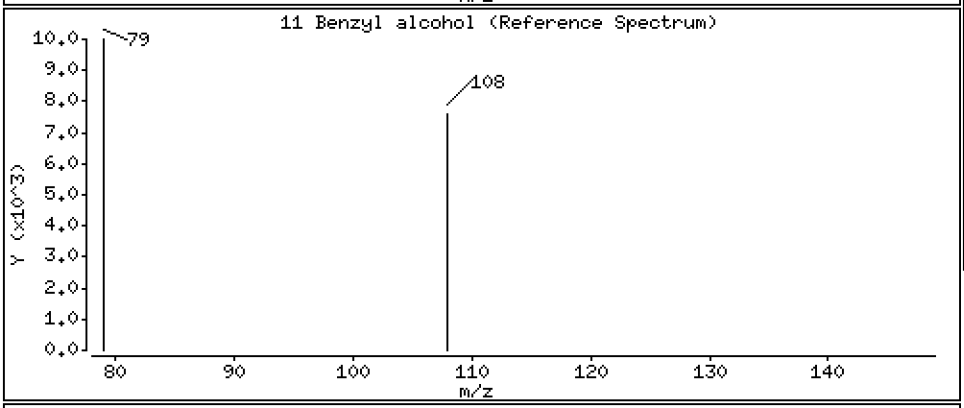
Concentration: 5.181 ug/L

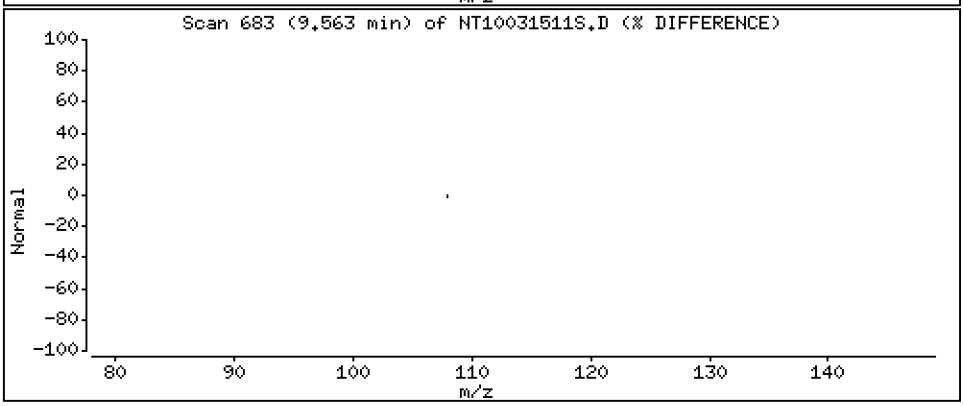












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

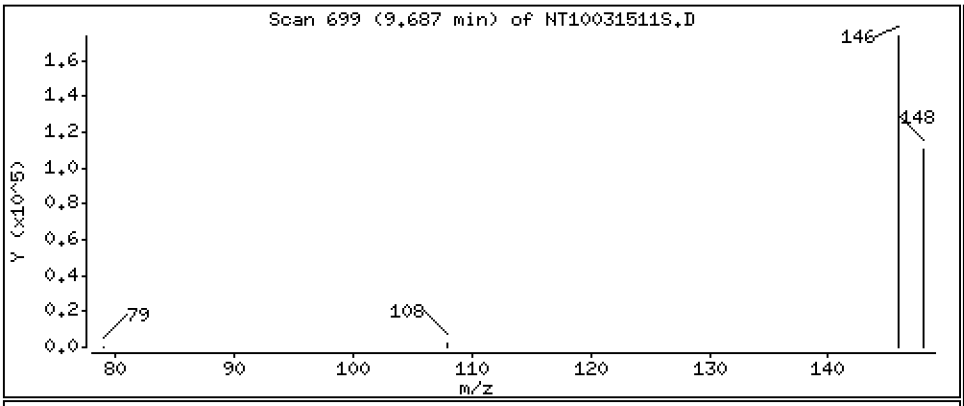
Operator: JGR

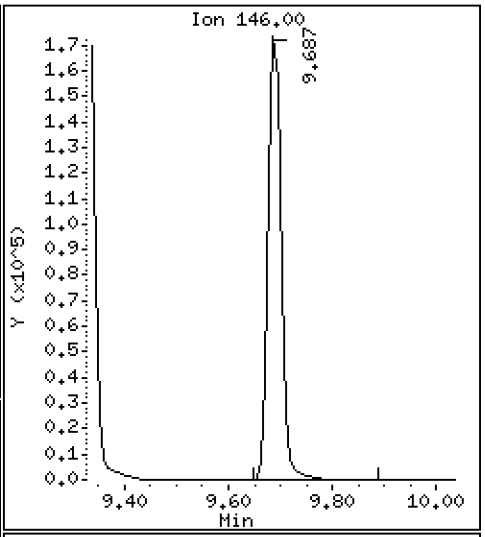
Column phase: ZB-5msi

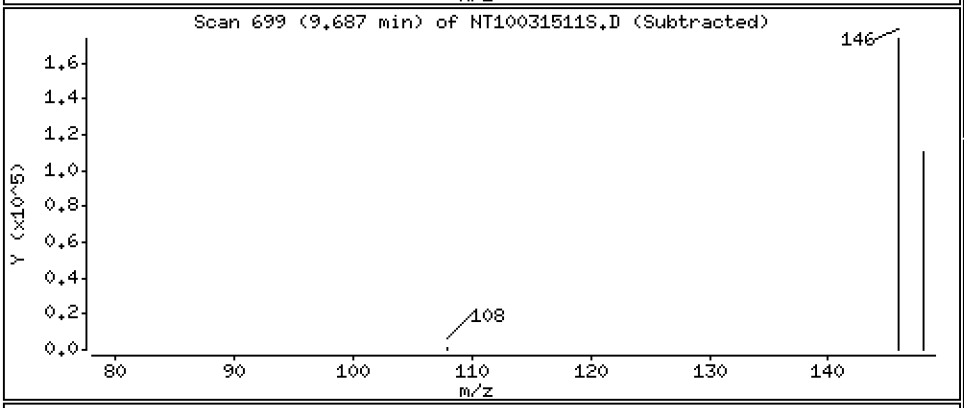
Column diameter: 0.25

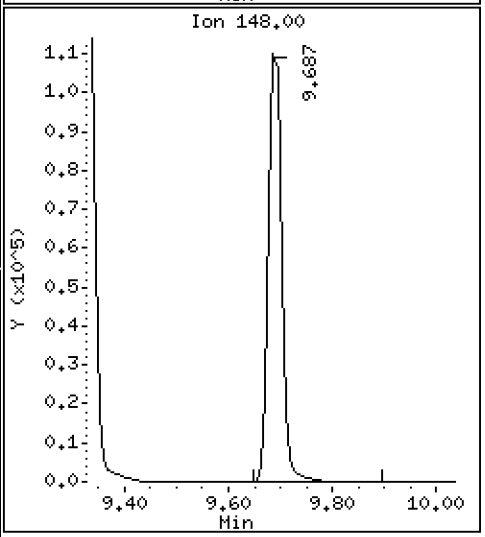
12 1,2-Dichlorobenzene

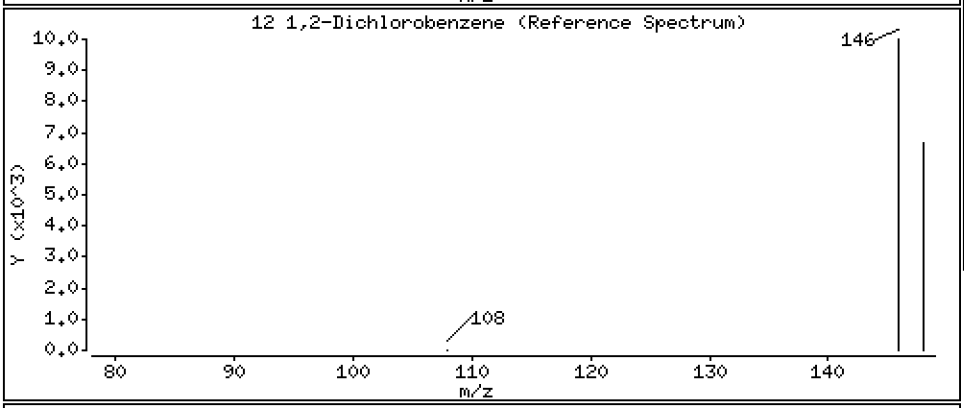
Concentration: 4.679 ug/L

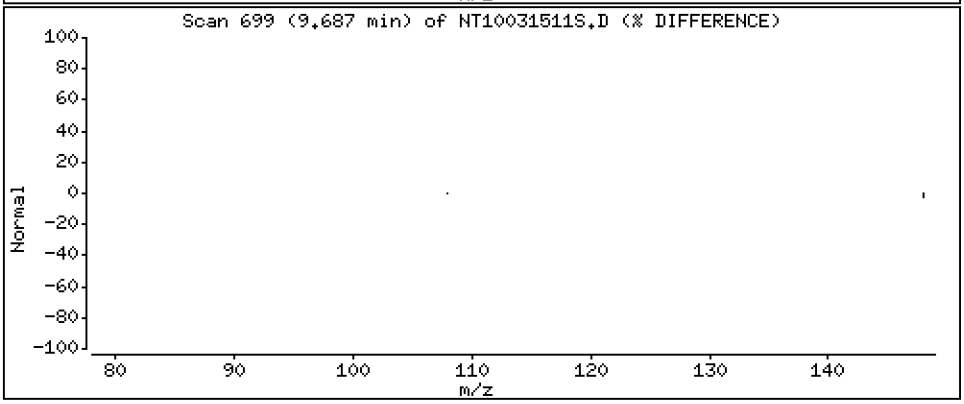












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

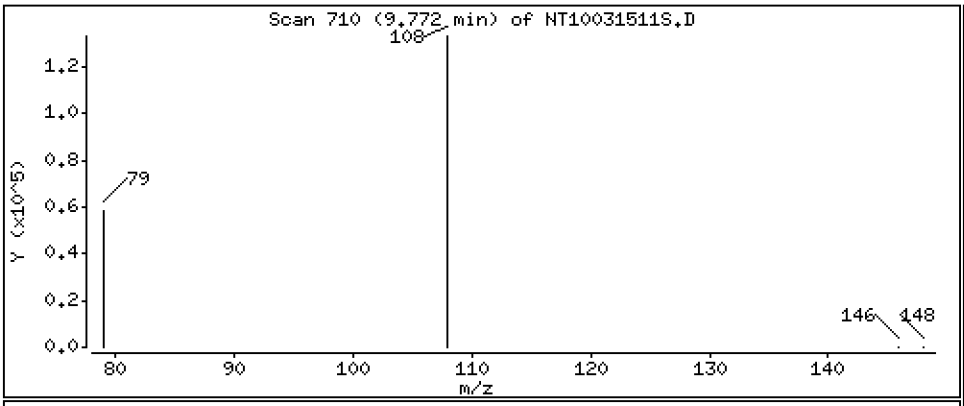
Operator: JGR

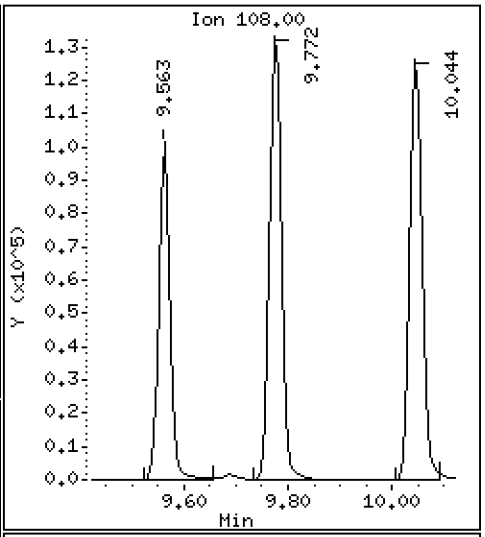
Column phase: ZB-5msi

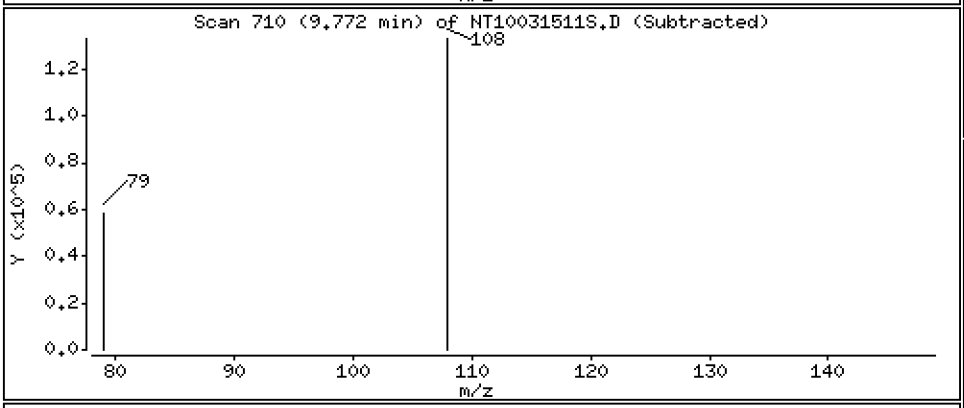
Column diameter: 0.25

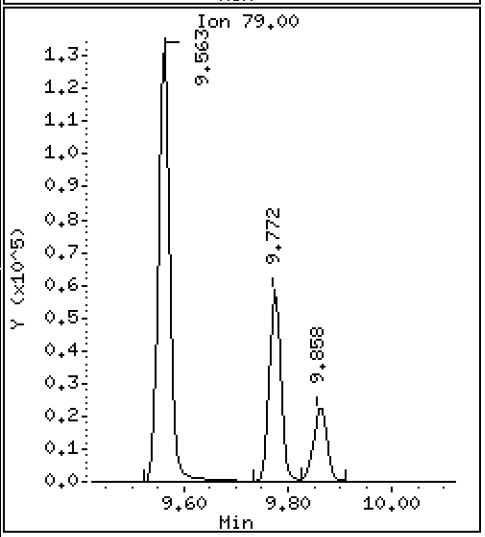
13 2-Methylphenol

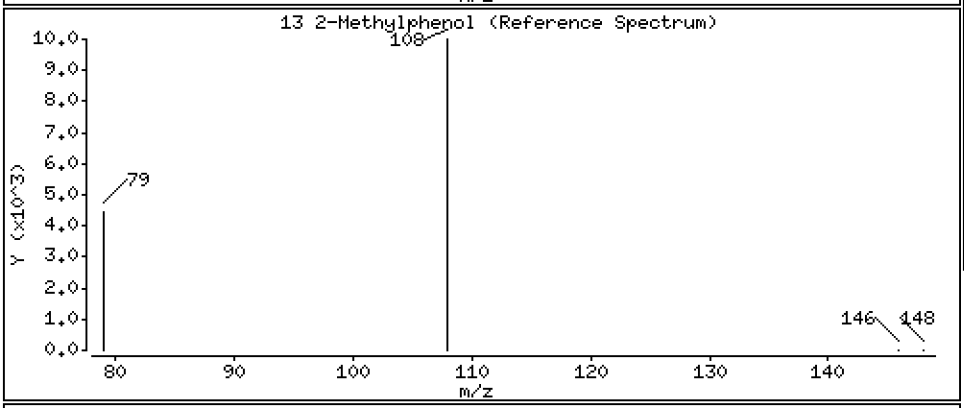
Concentration: 4.197 ug/L

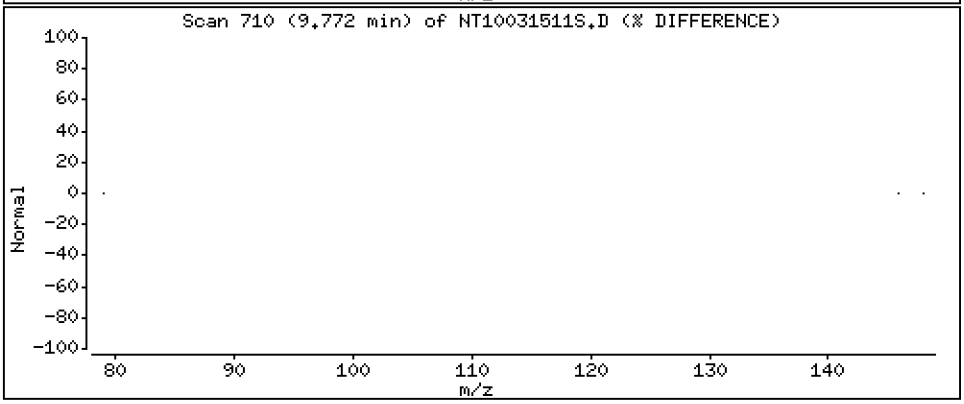












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

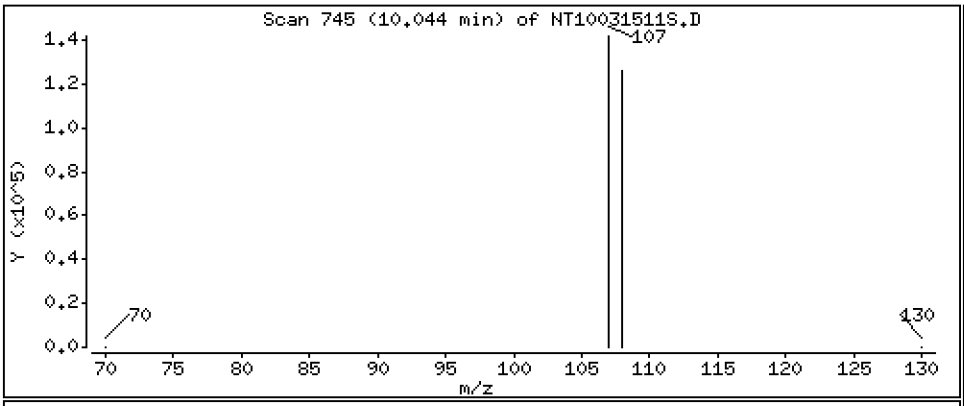
Operator: JGR

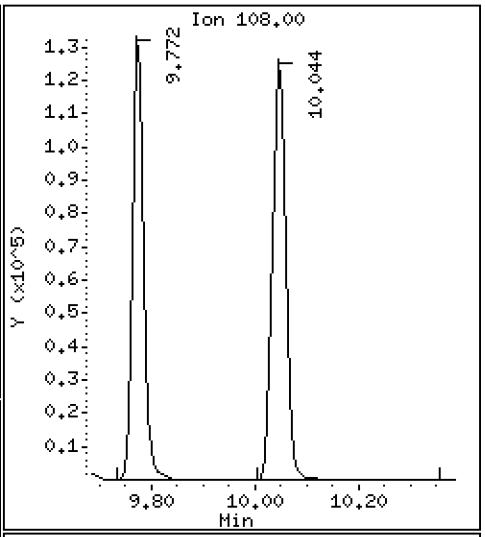
Column phase: ZB-5msi

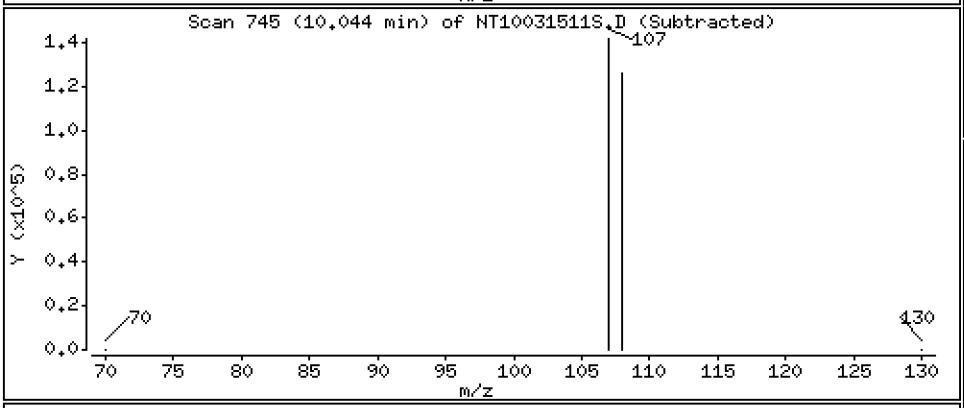
Column diameter: 0.25

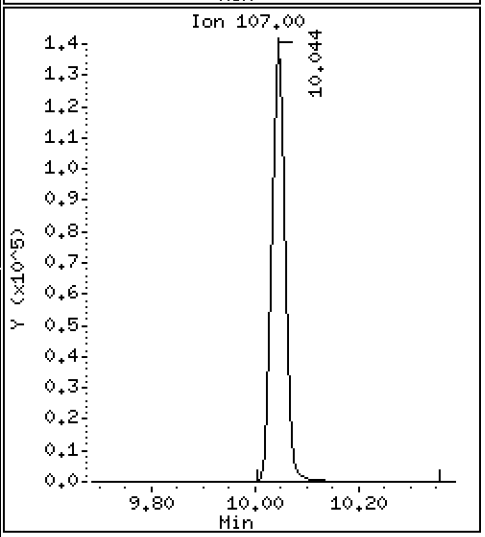
15 4-Methylphenol

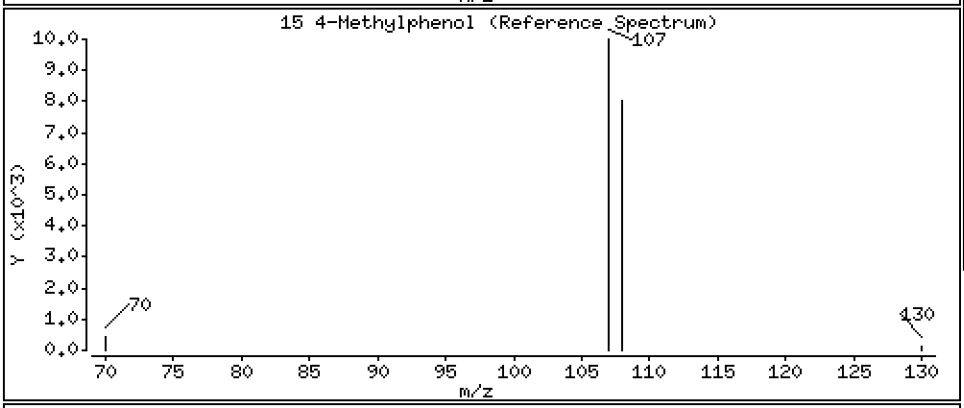
Concentration: 4.463 ug/L

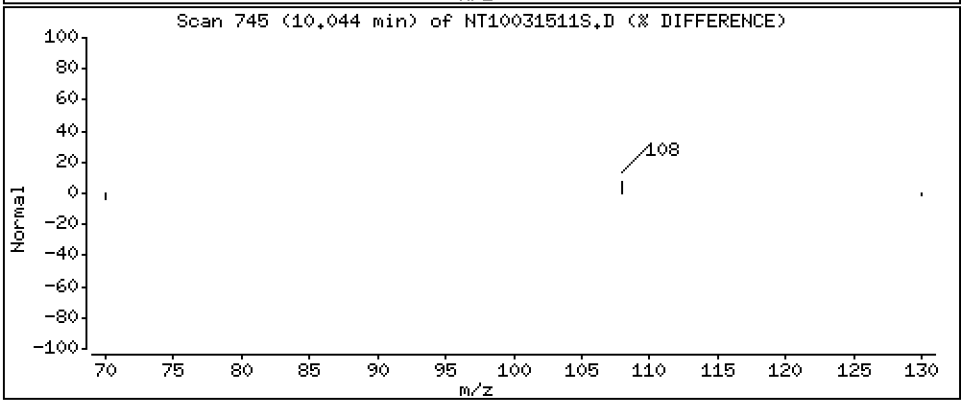












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

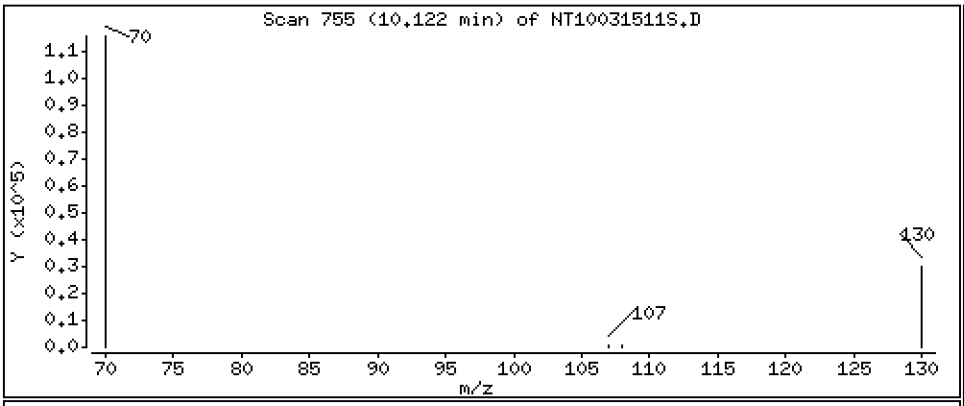
Operator: JGR

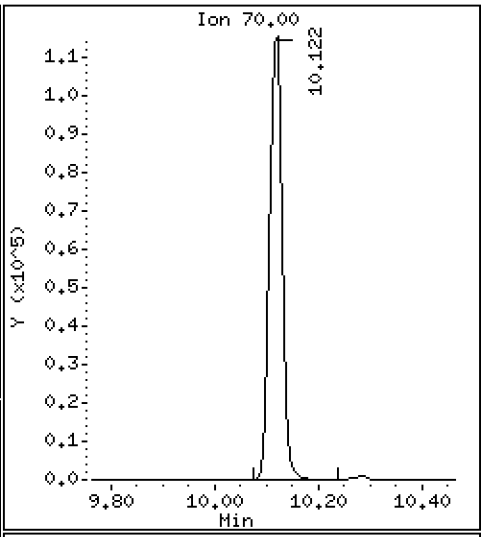
Column phase: ZB-5msi

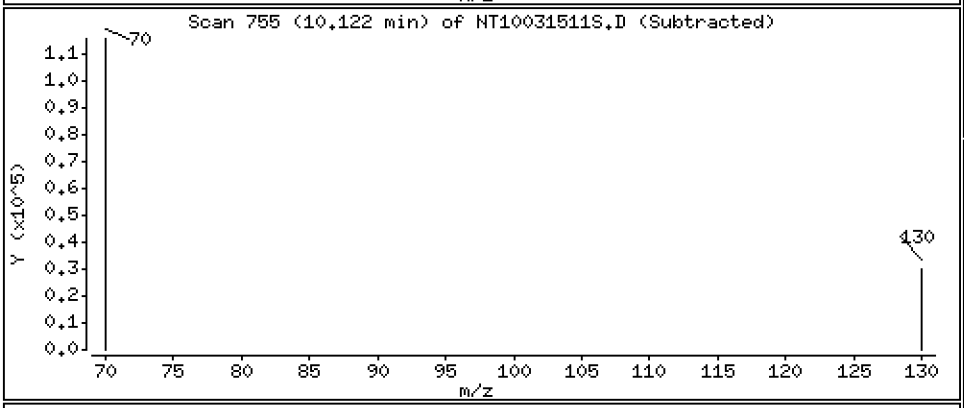
Column diameter: 0.25

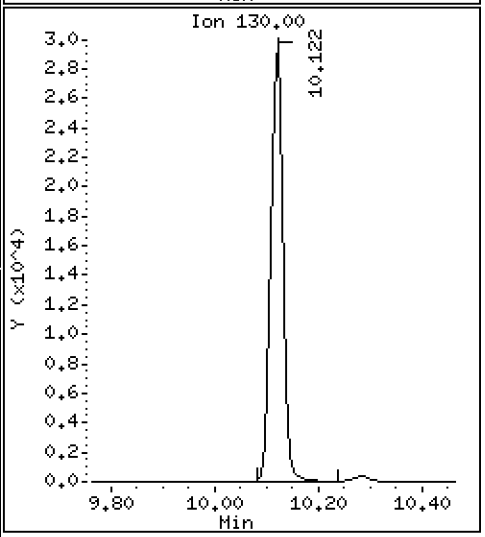
16 N-Nitroso-di-n-propylamine

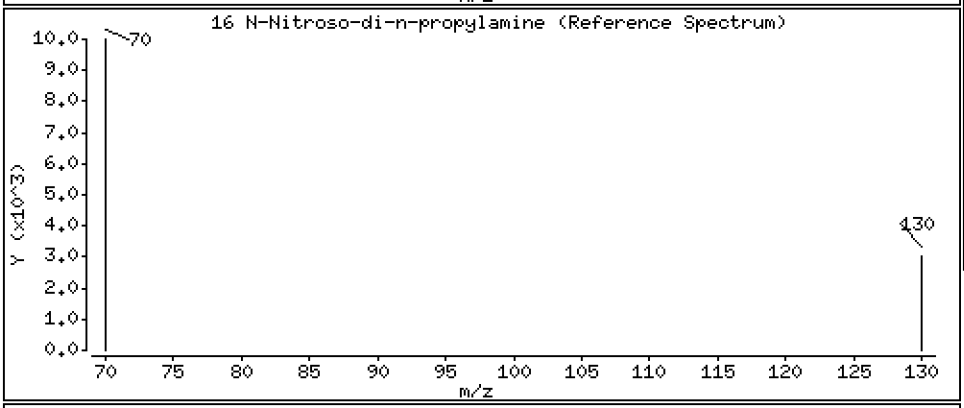
Concentration: 5.282 ug/L

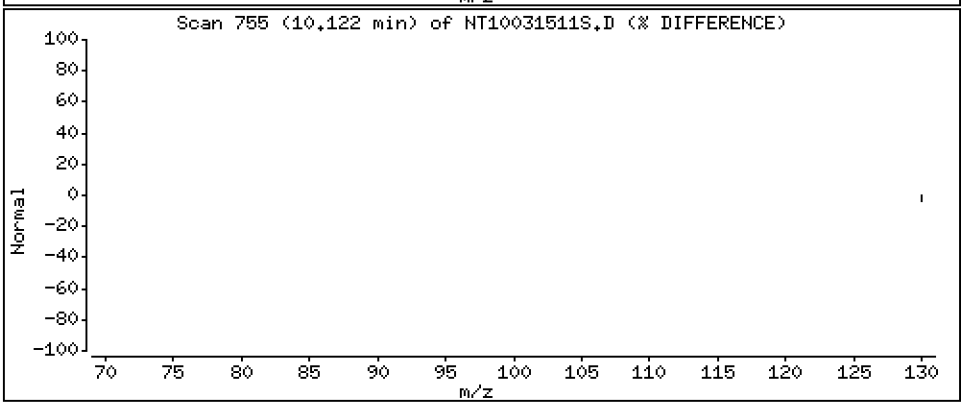












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

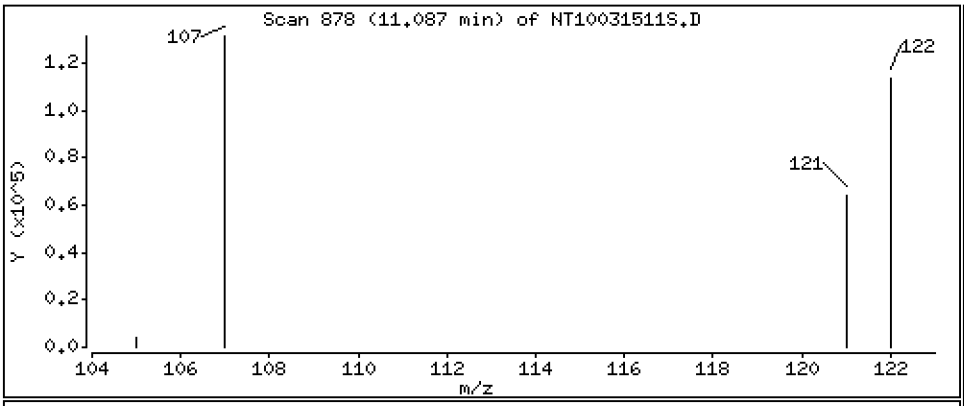
Operator: JGR

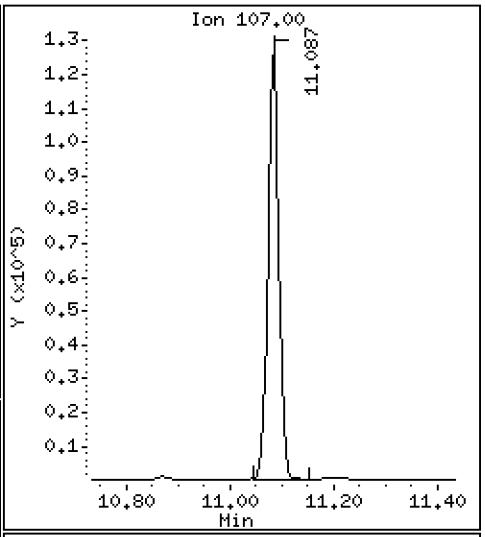
Column phase: ZB-5msi

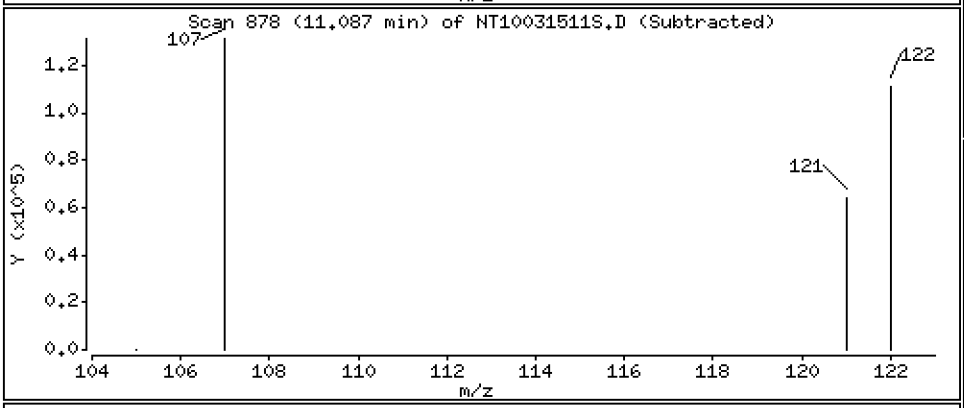
Column diameter: 0.25

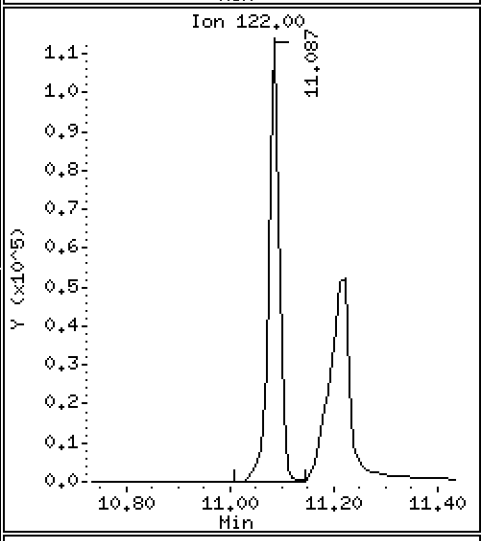
22 2,4-Dimethylphenol

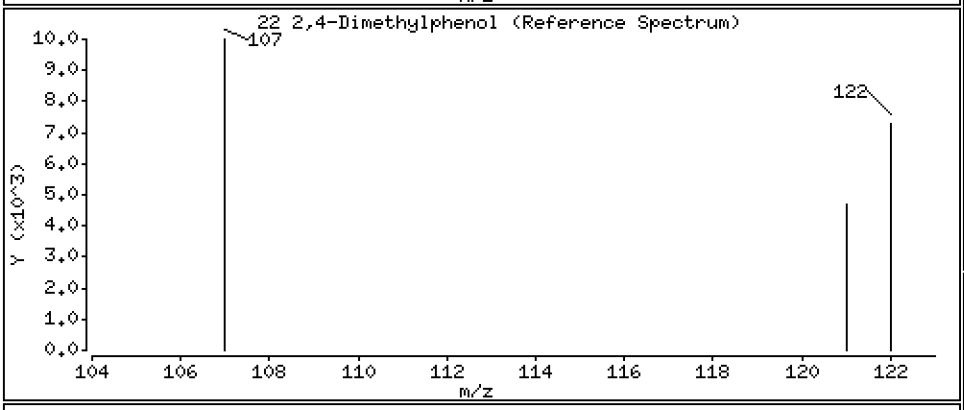
Concentration: 3.660 ug/L

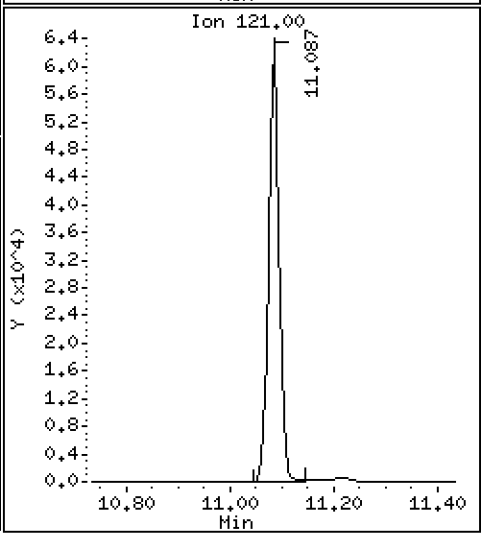


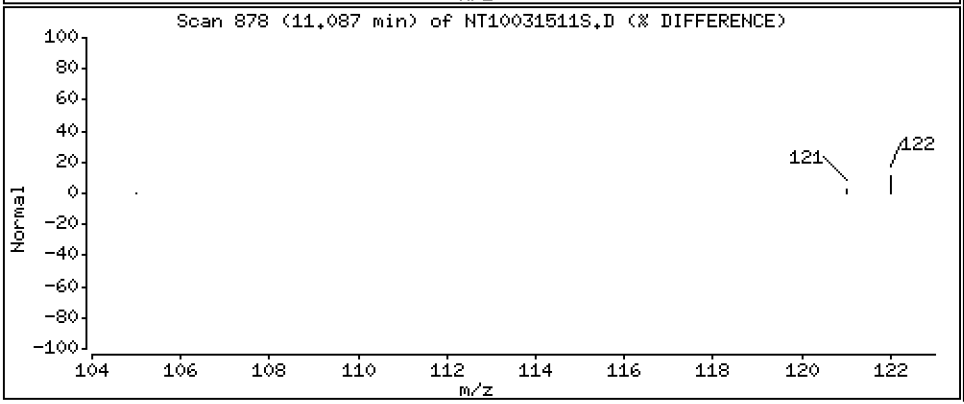












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

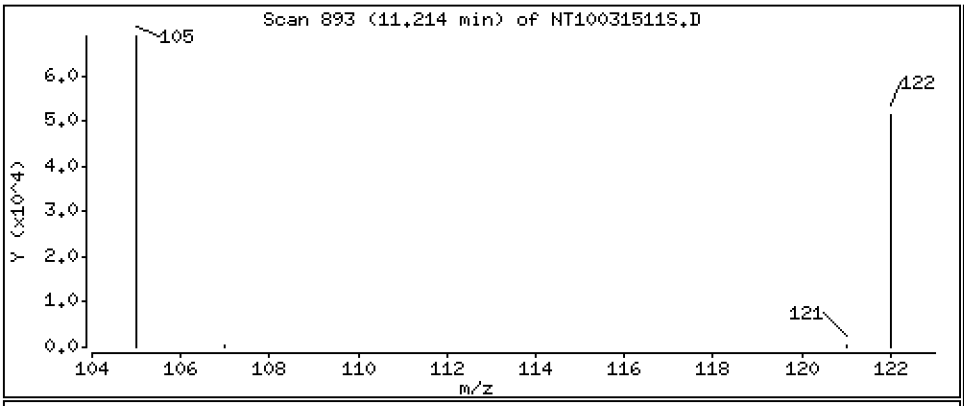
Operator: JGR

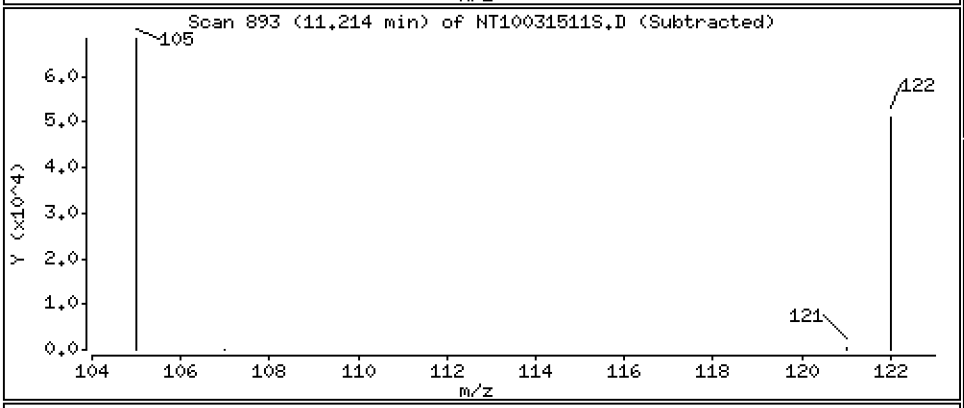
Column phase: ZB-5msi

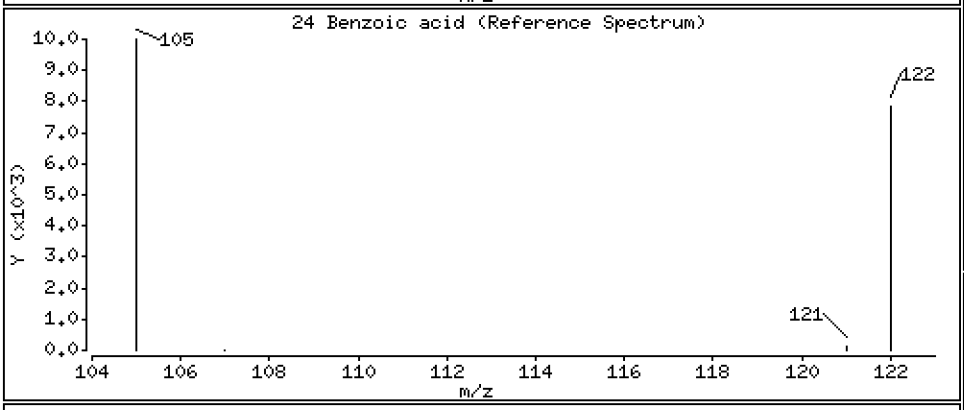
Column diameter: 0.25

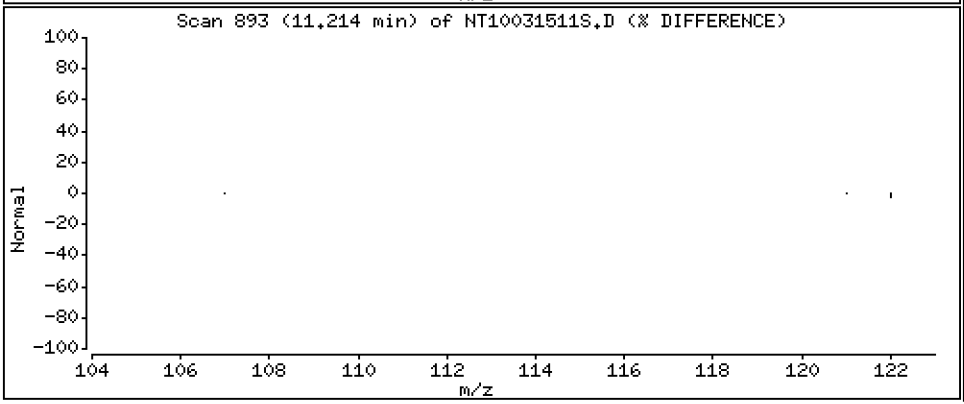
24 Benzoic acid

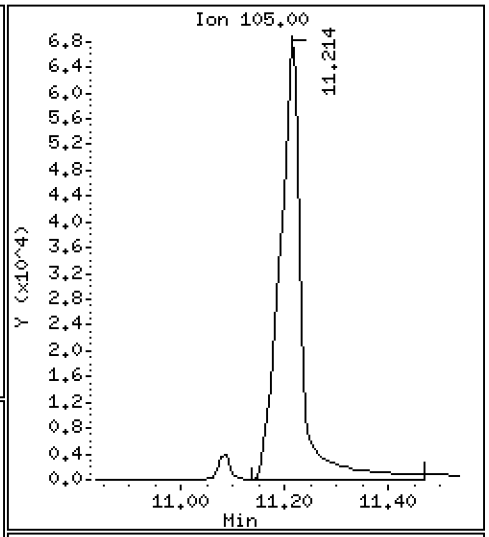
Concentration: 6.746 ug/L

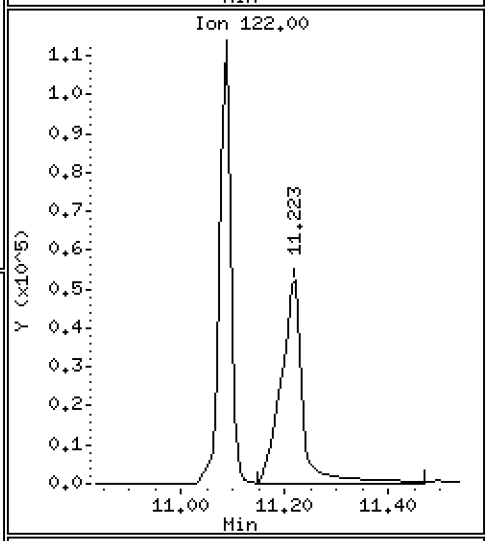


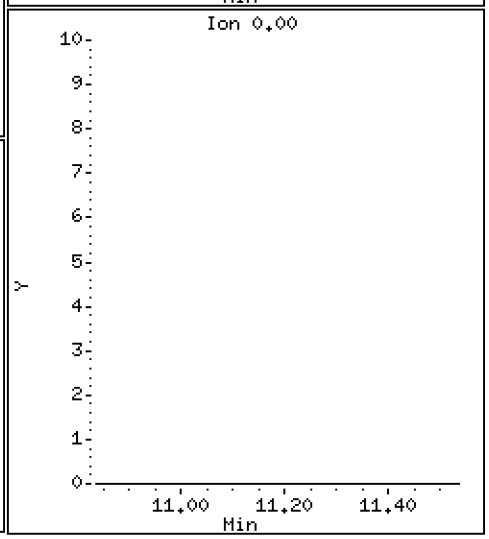












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

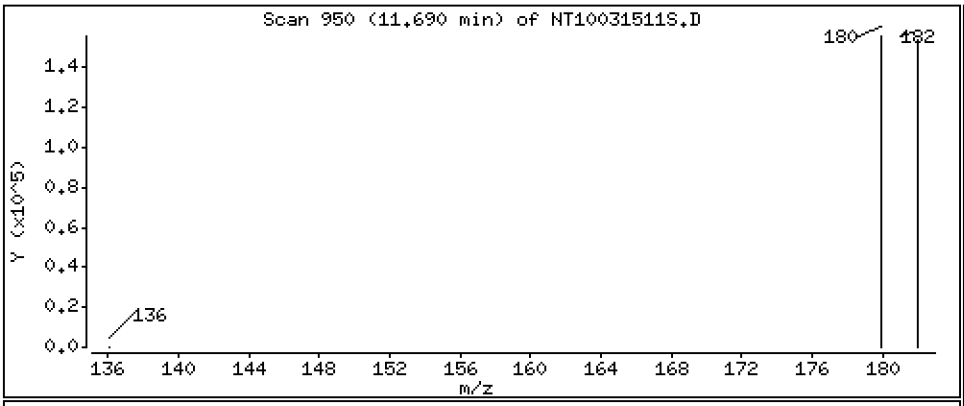
Operator: JGR

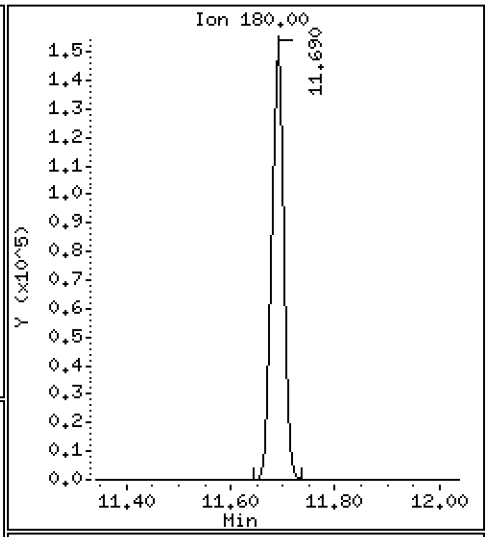
Column phase: ZB-5msi

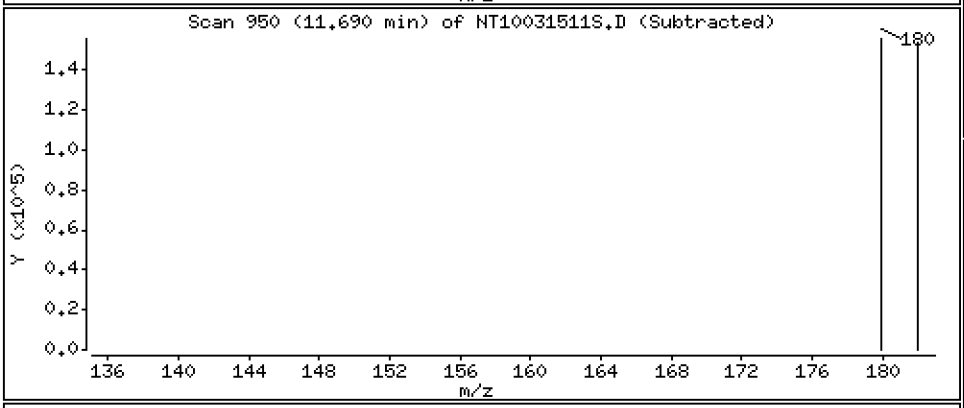
Column diameter: 0.25

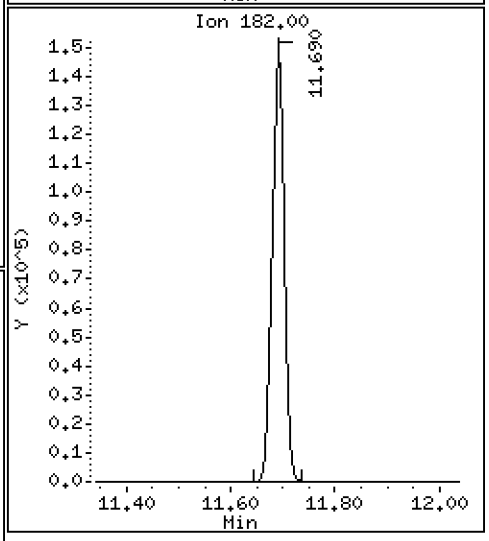
26 1,2,4-Trichlorobenzene

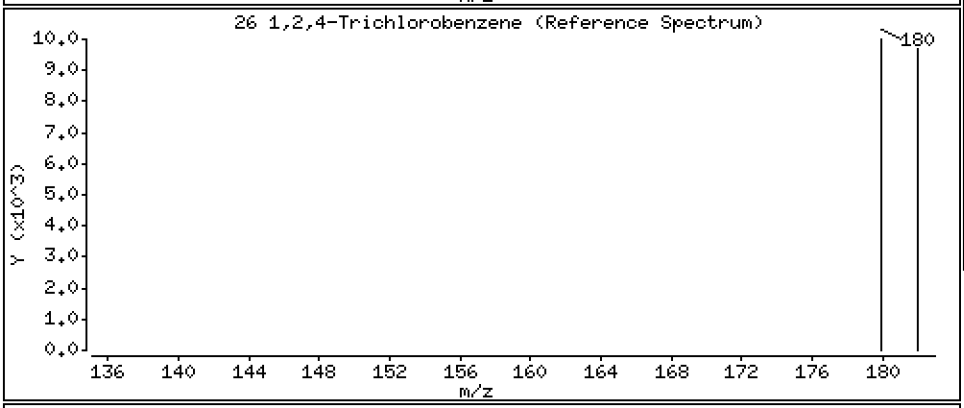
Concentration: 4.445 ug/L

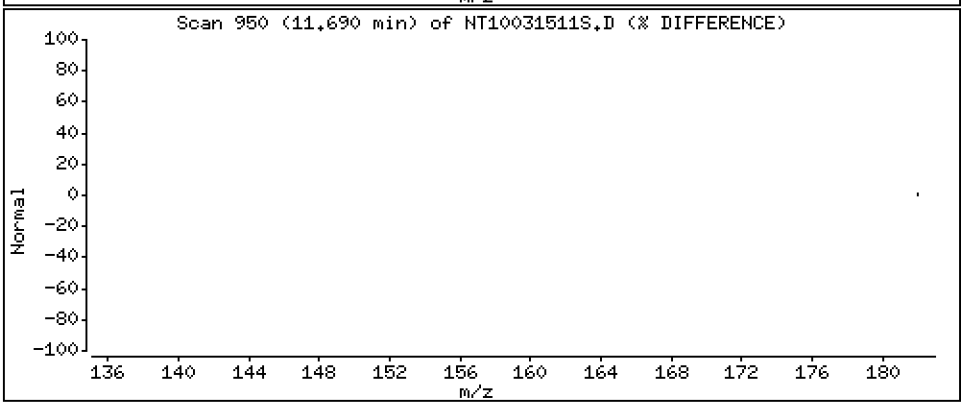












Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

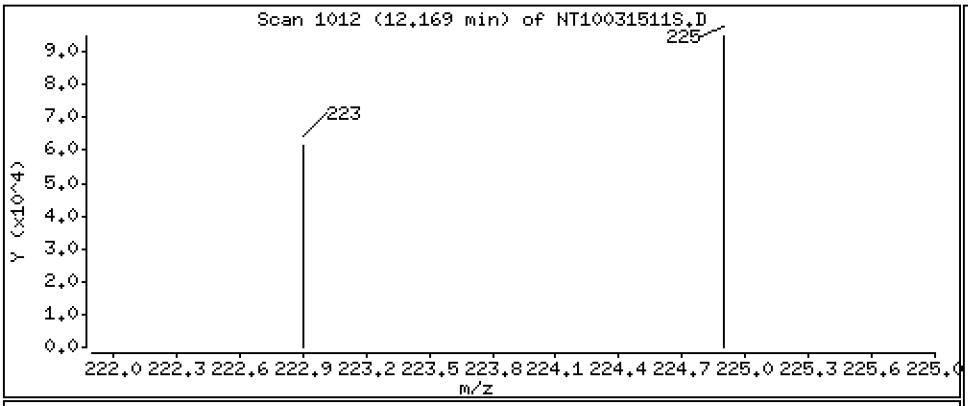
Operator: JGR

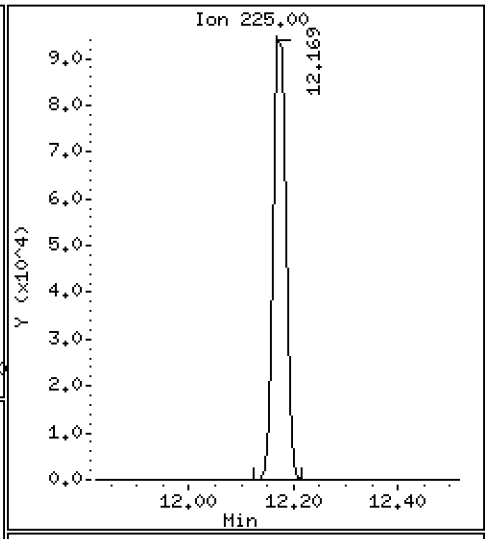
Column phase: ZB-5msi

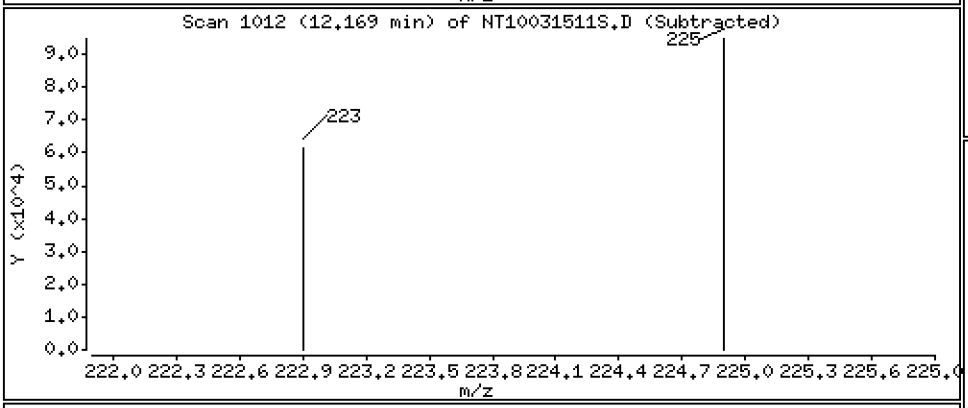
Column diameter: 0.25

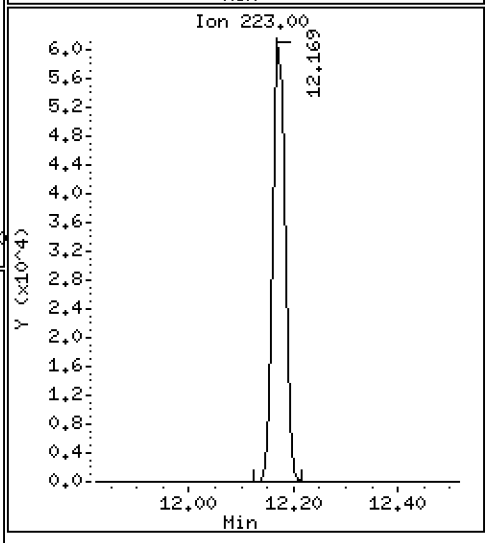
30 Hexachlorobutadiene

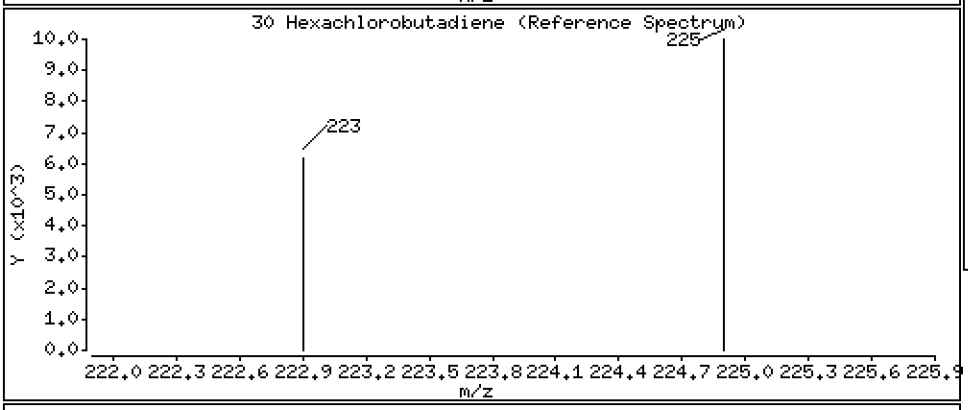
Concentration: 4.653 ug/L

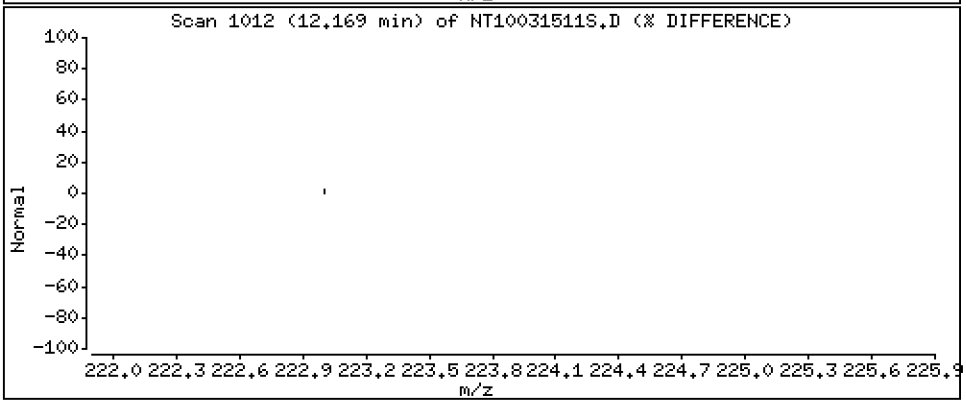












Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

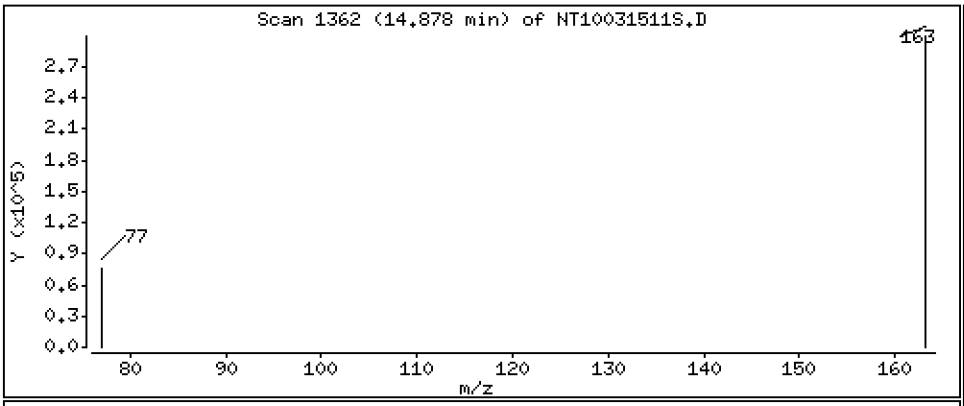
Operator: JGR

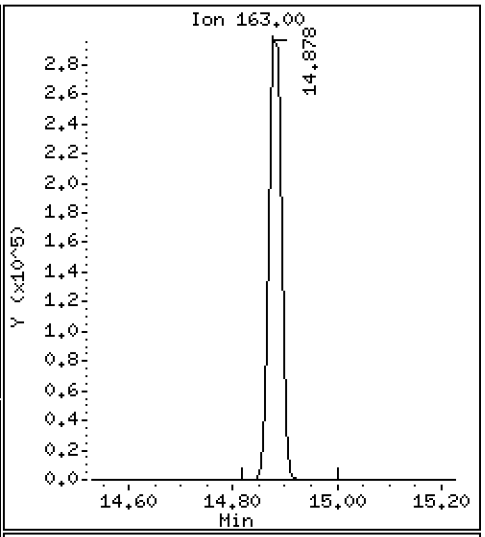
Column phase: ZB-5msi

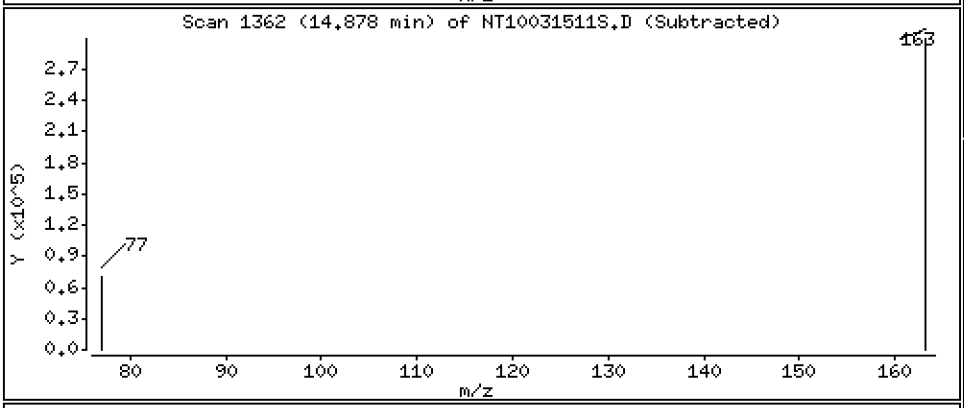
Column diameter: 0.25

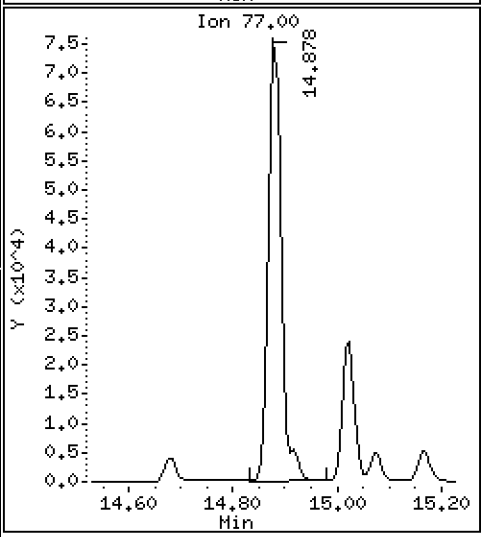
39 Dimethylphthalate

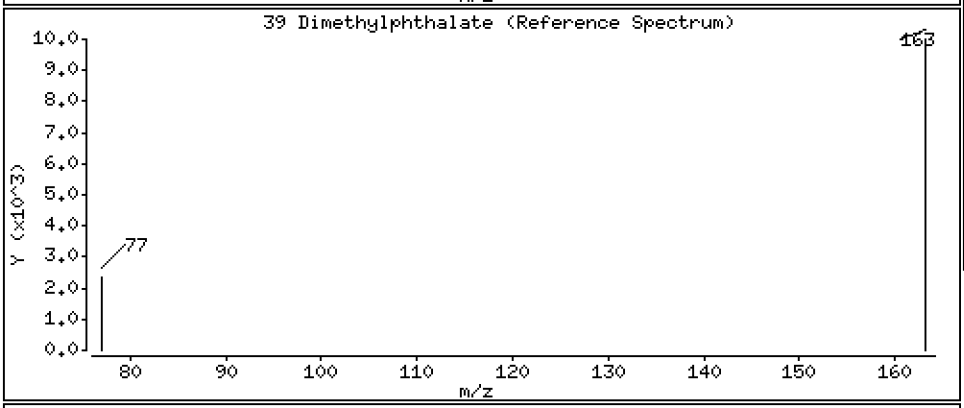
Concentration: 4.948 ug/L

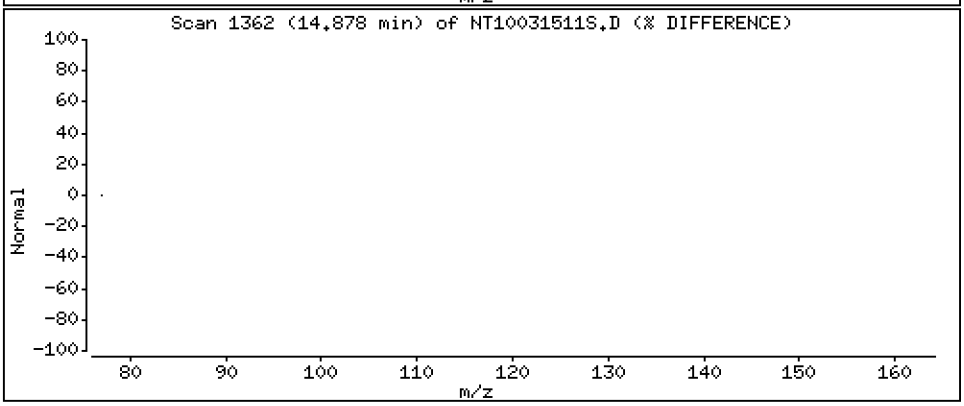












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

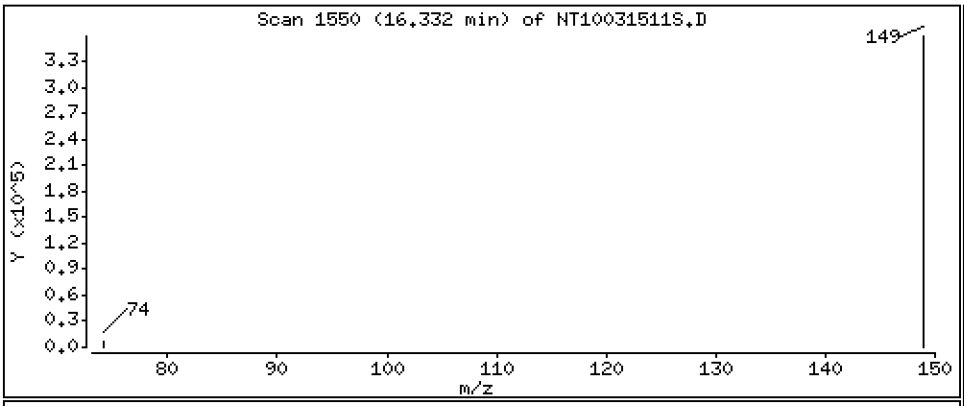
Operator: JGR

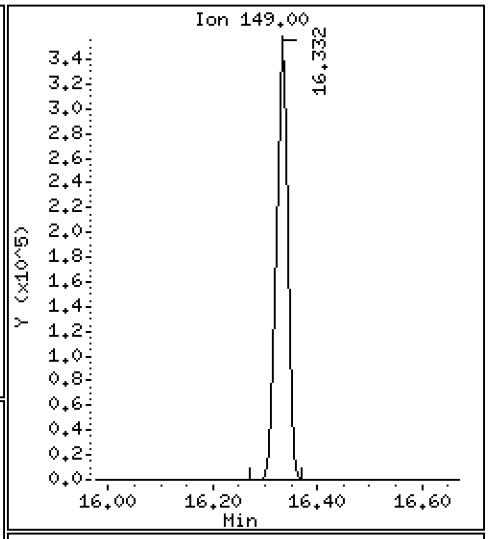
Column phase: ZB-5msi

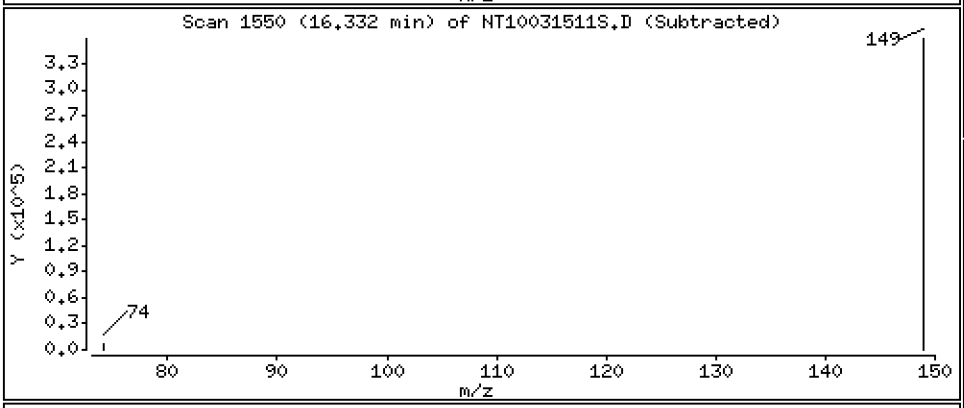
Column diameter: 0.25

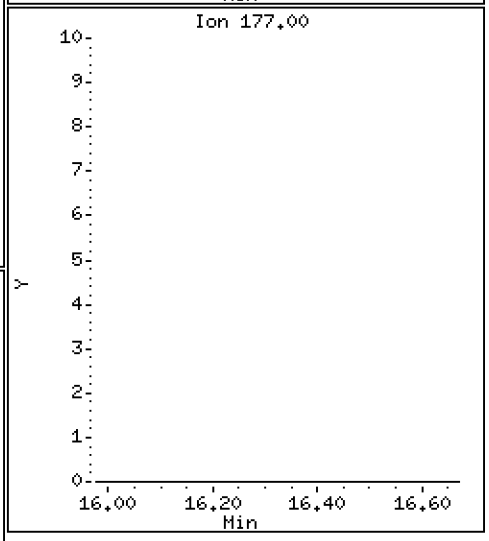
50 Diethylphthalate

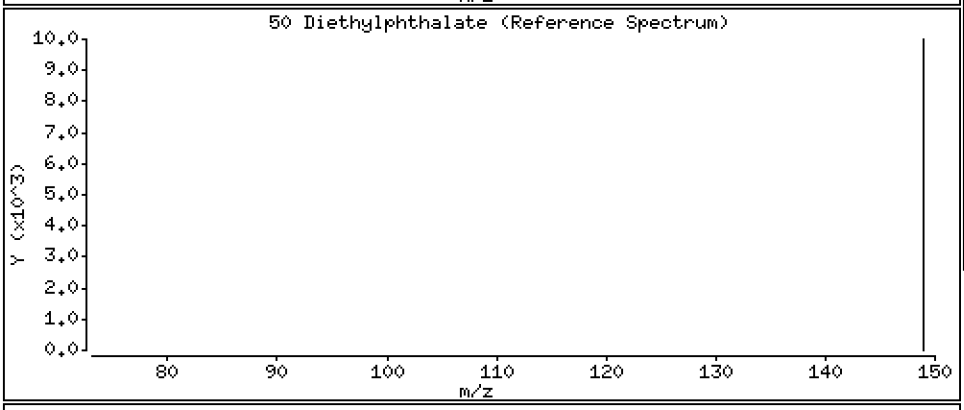
Concentration: 5.364 ug/L

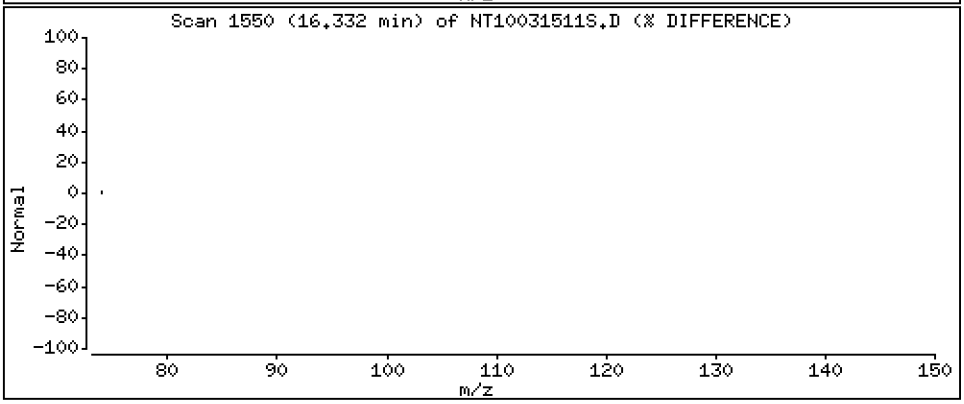












Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

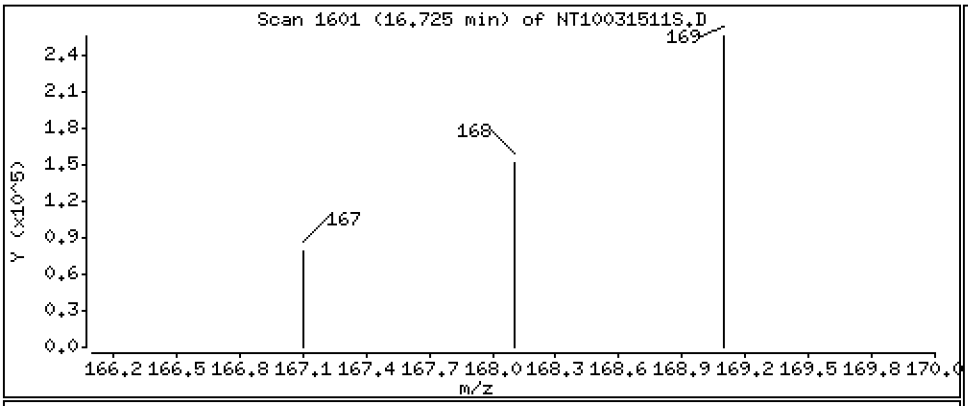
Operator: JGR

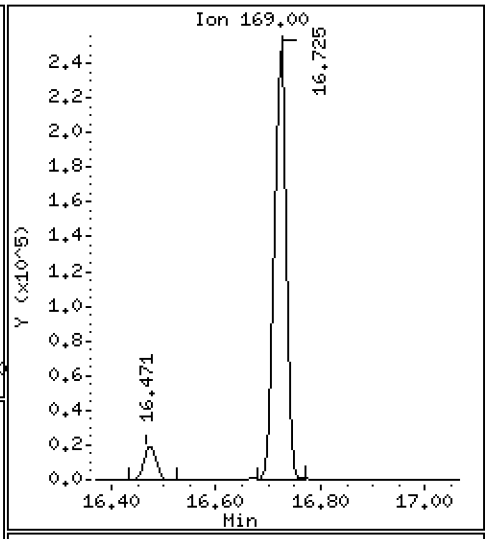
Column phase: ZB-5msi

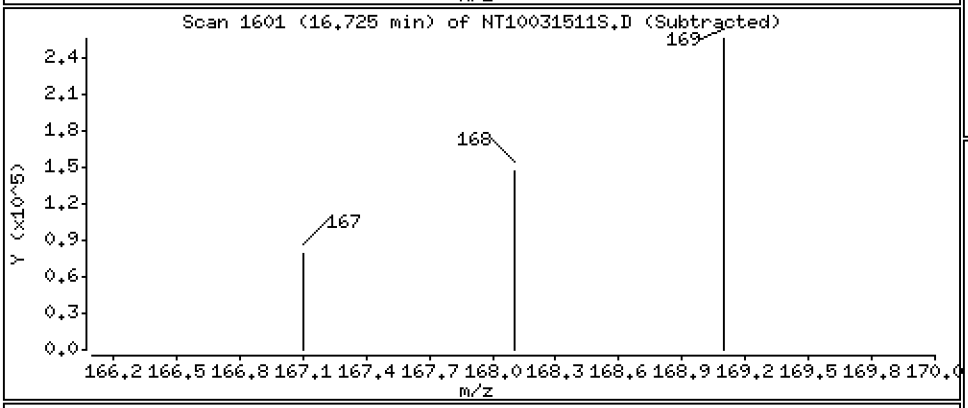
Column diameter: 0.25

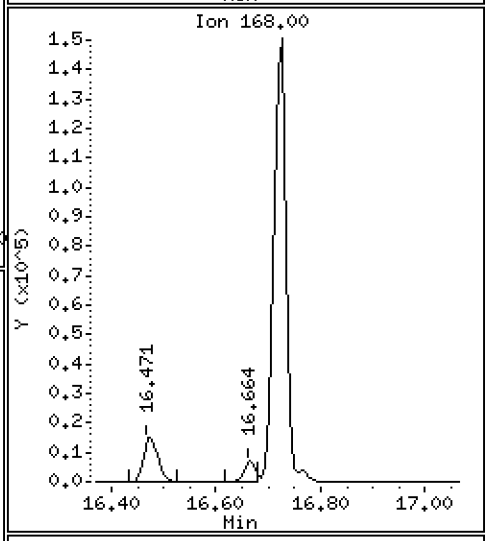
54 N-Nitrosodiphenylamine

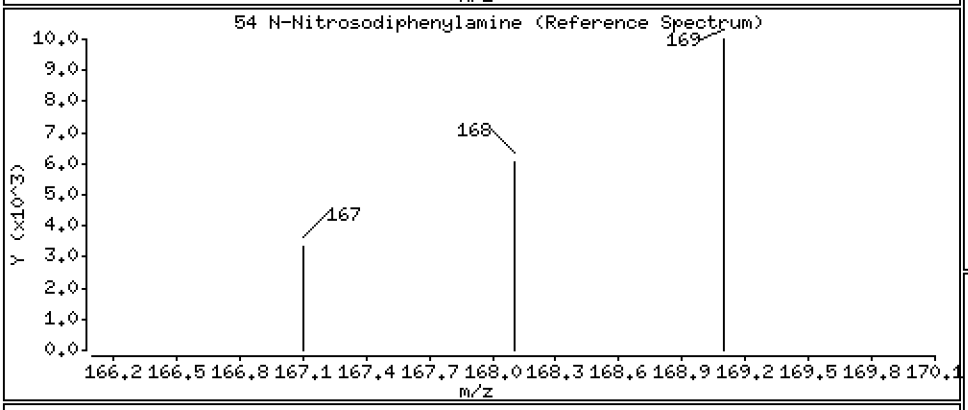
Concentration: 5.080 ug/L

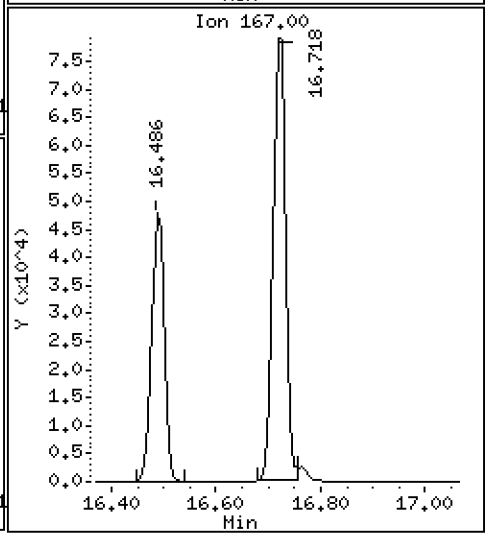


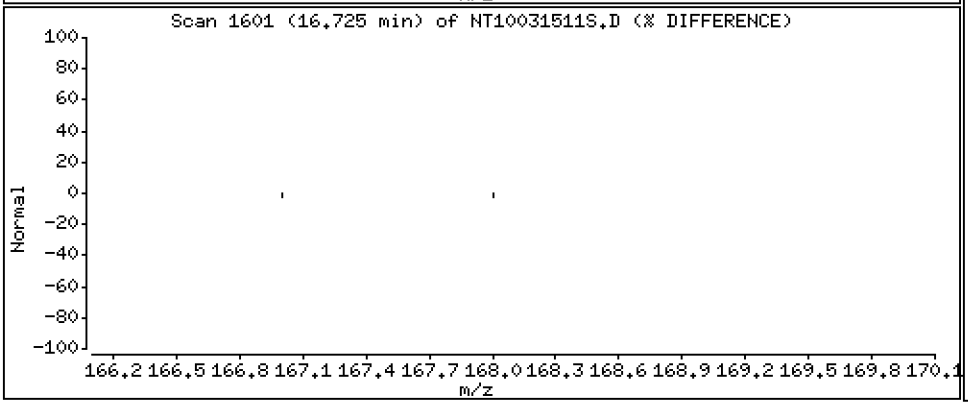












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

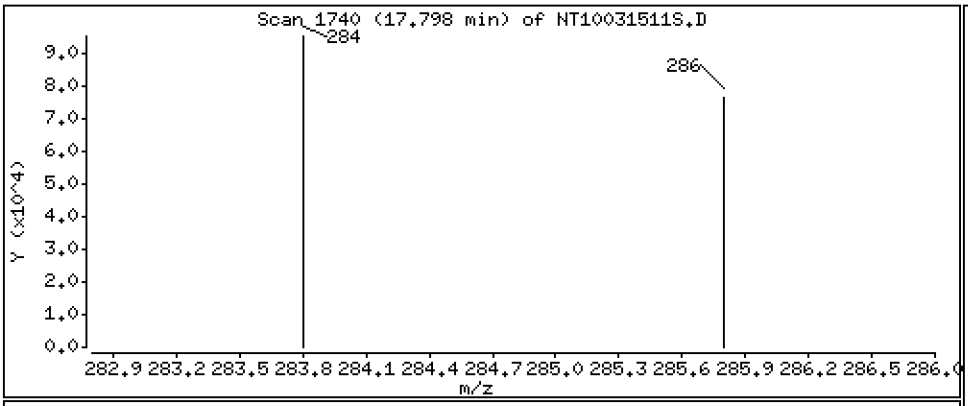
Operator: JGR

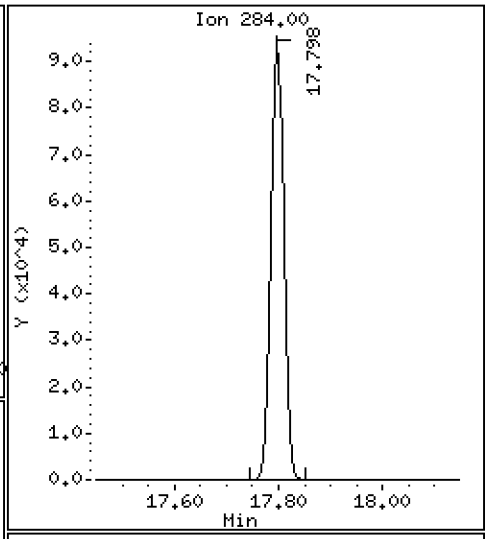
Column phase: ZB-5msi

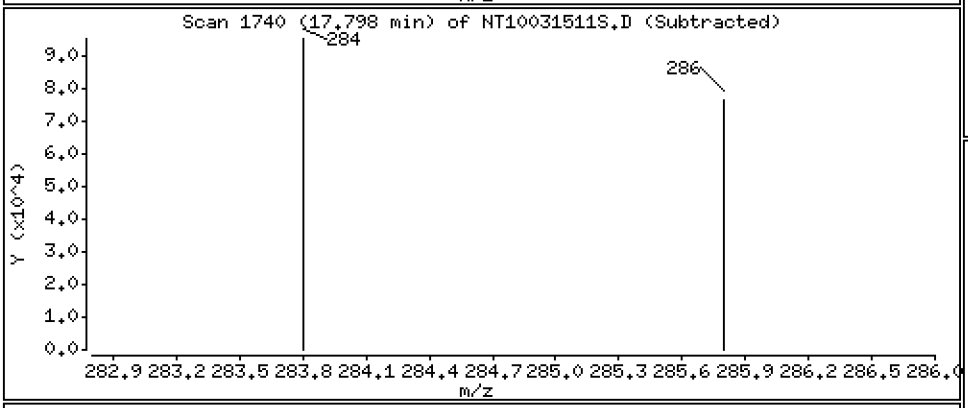
Column diameter: 0.25

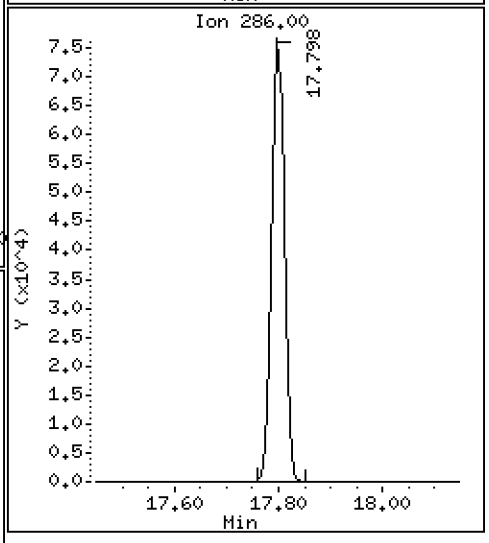
57 Hexachlorobenzene

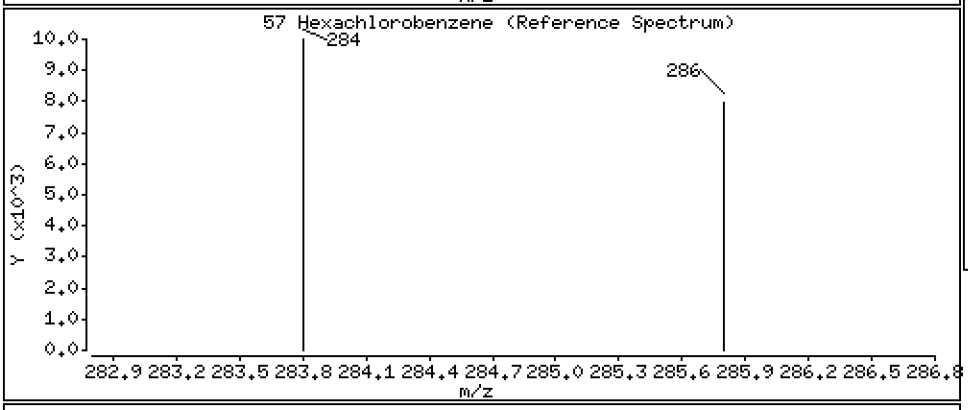
Concentration: 4.614 ug/L

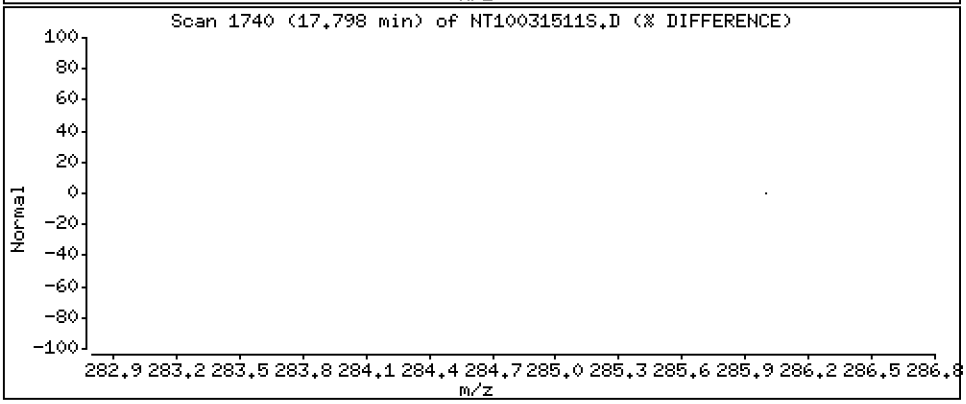












Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

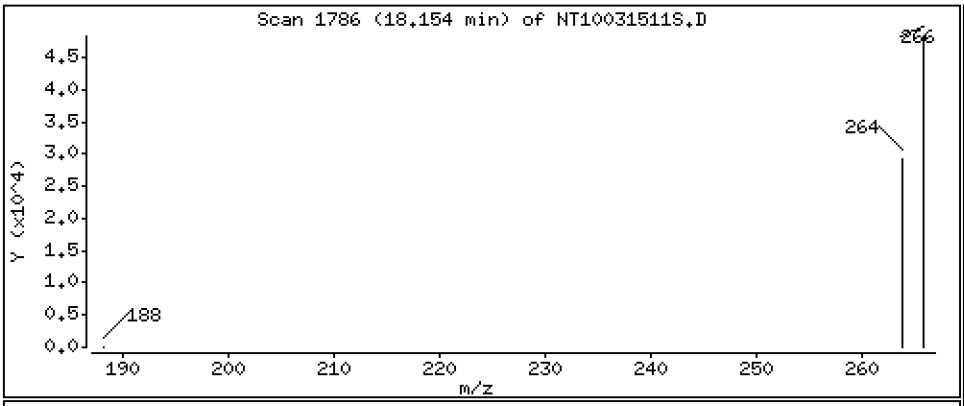
Operator: JGR

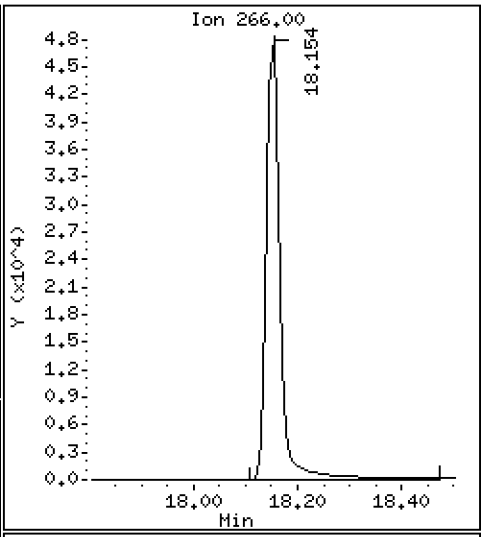
Column phase: ZB-5msi

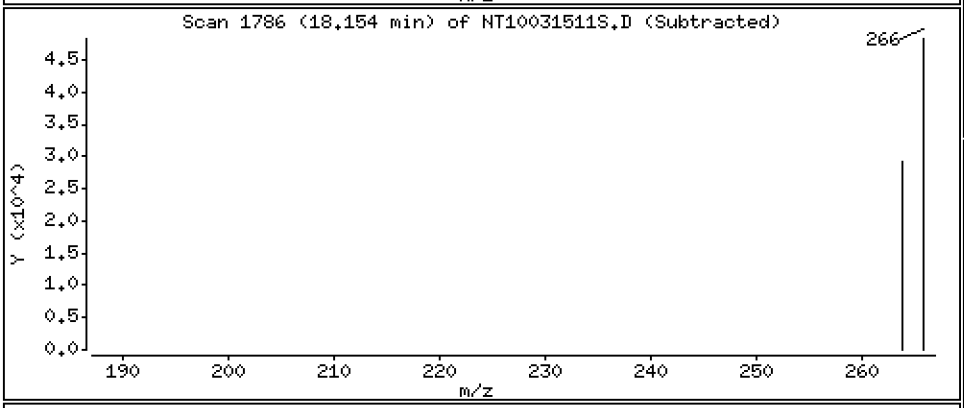
Column diameter: 0.25

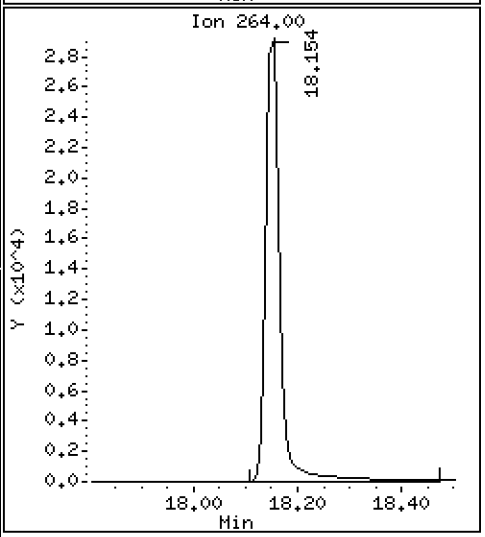
58 Pentachlorophenol

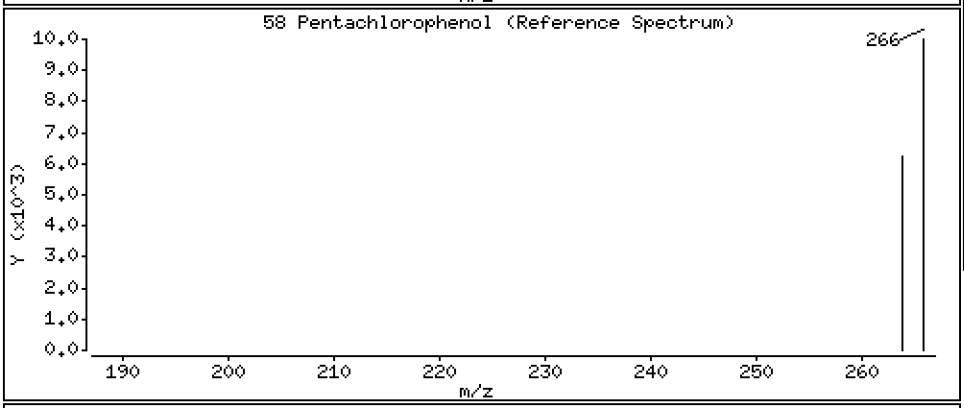
Concentration: 4.418 ug/L

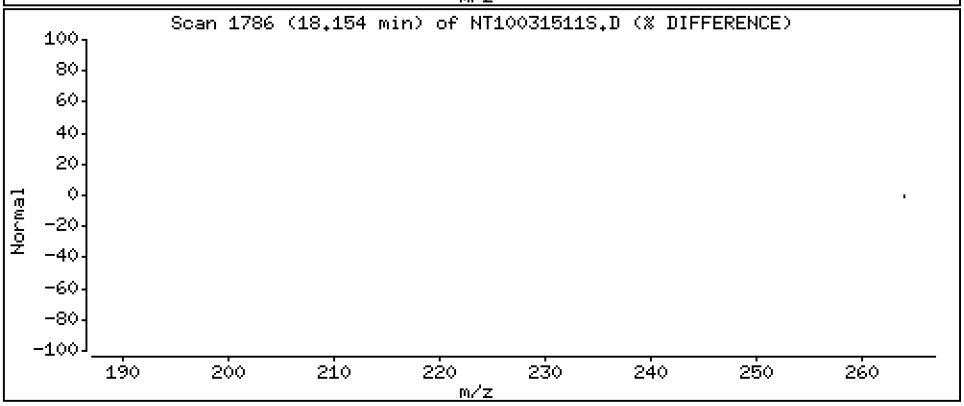












Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

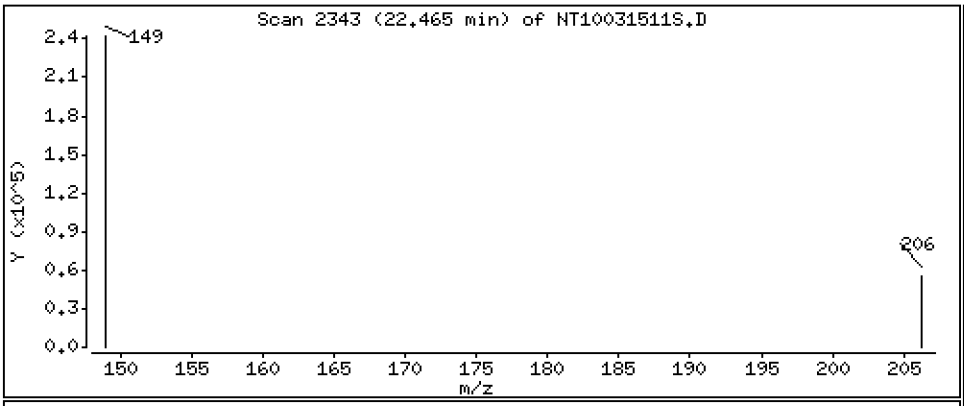
Operator: JGR

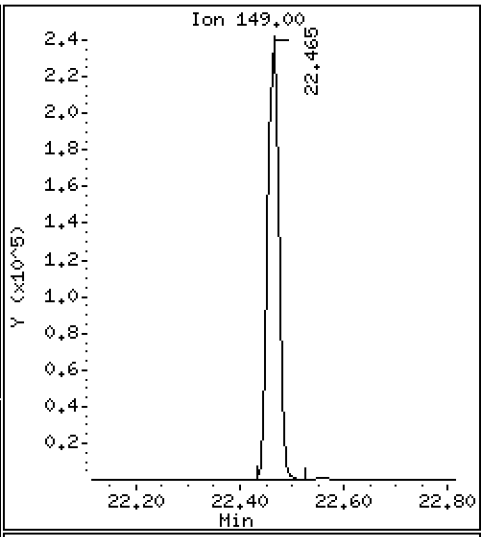
Column phase: ZB-5msi

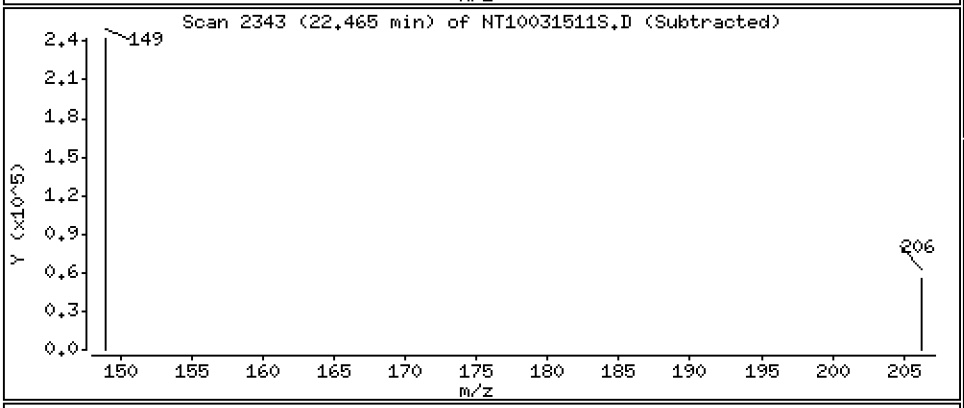
Column diameter: 0.25

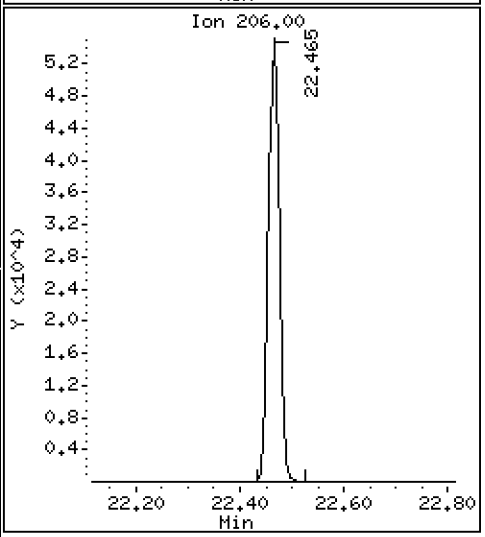
67 Butylbenzylphthalate

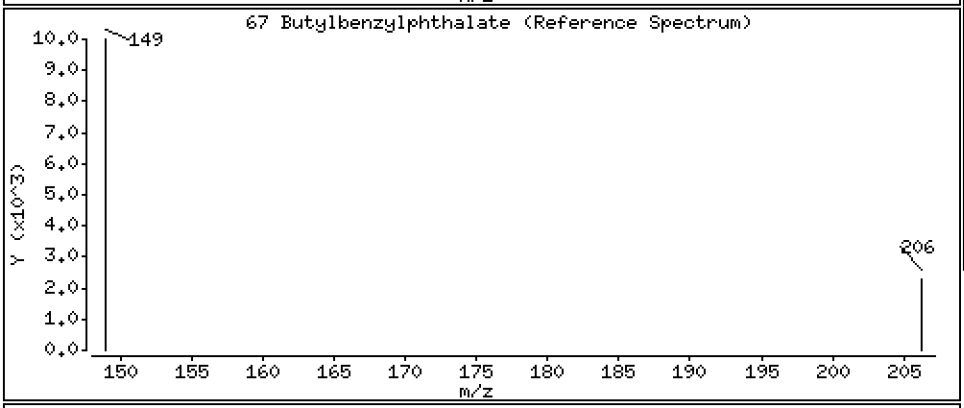
Concentration: 5.121 ug/L

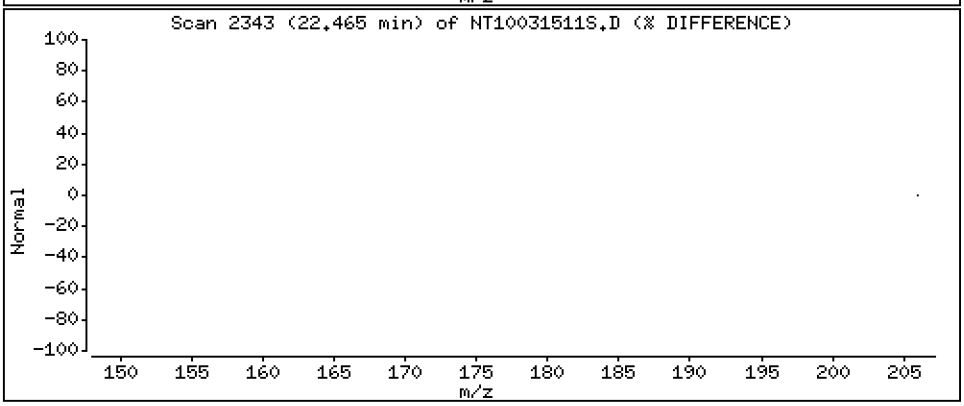












Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

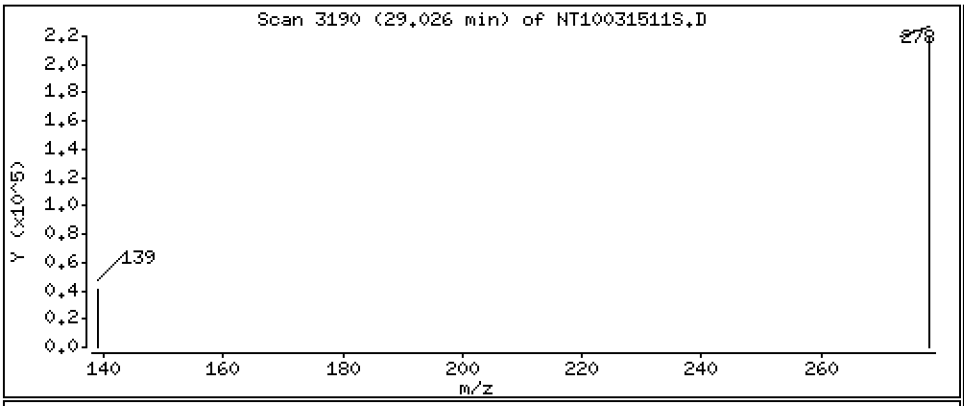
Operator: JGR

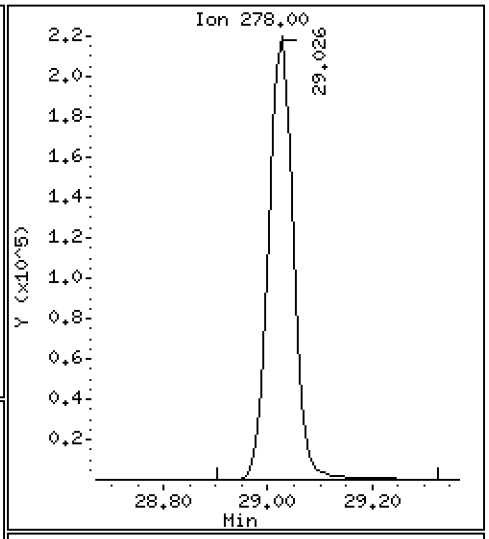
Column phase: ZB-5msi

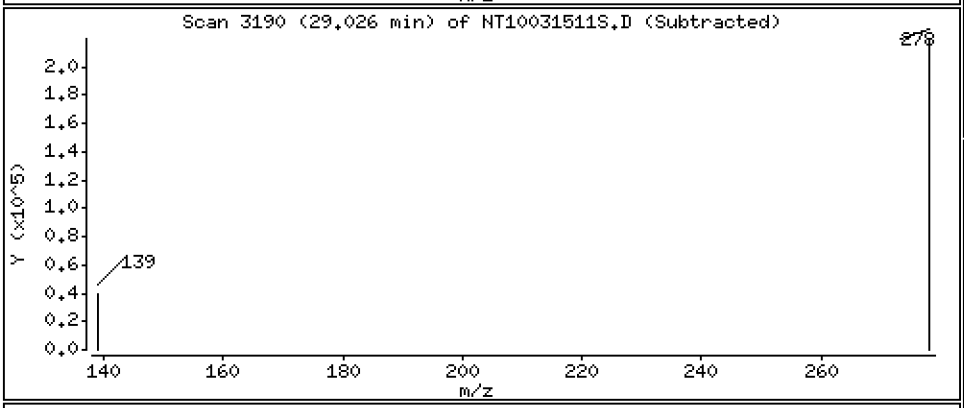
Column diameter: 0.25

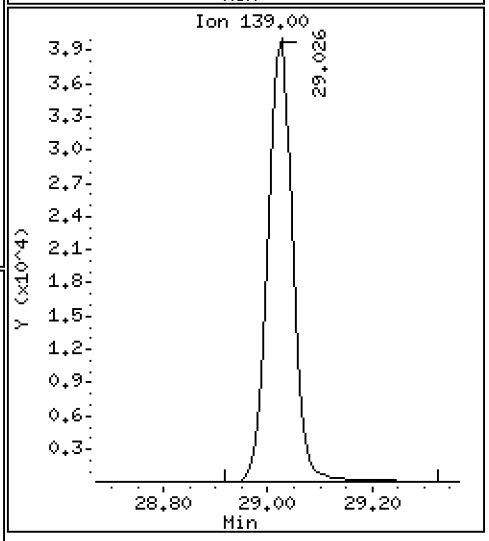
79 Dibenzo(a,h)anthracene

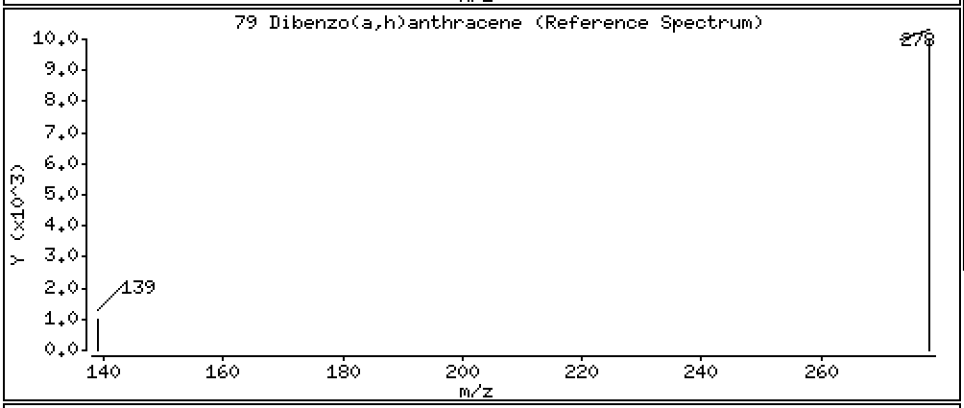
Concentration: 4.238 ug/L

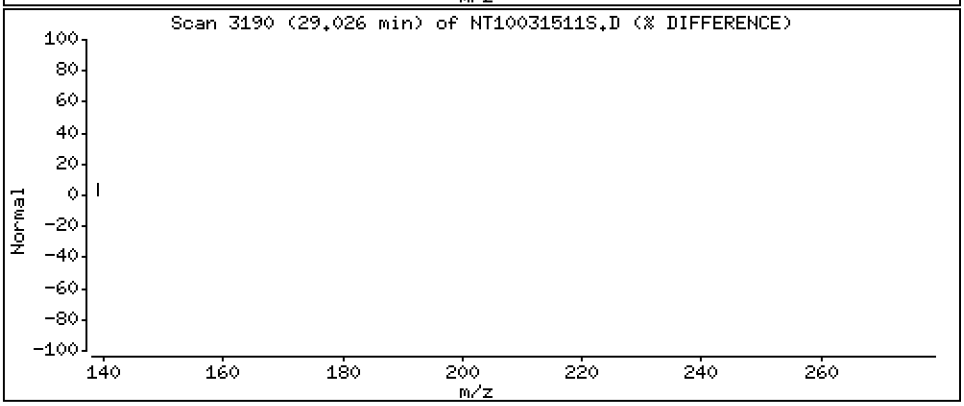












Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

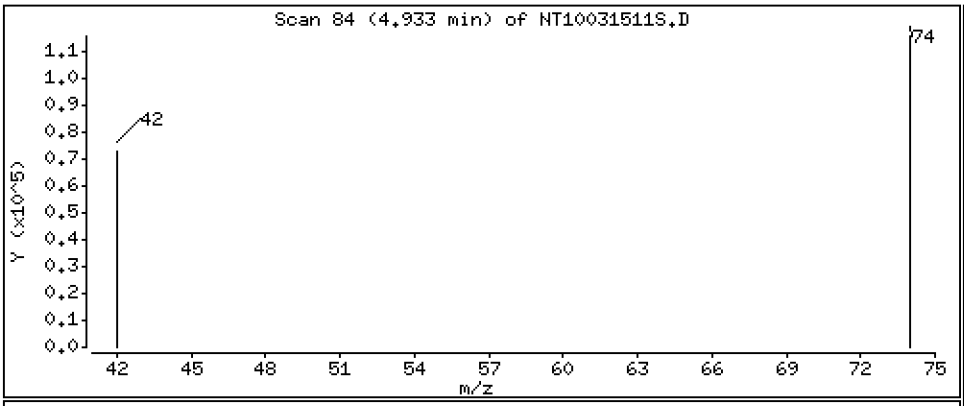
Operator: JGR

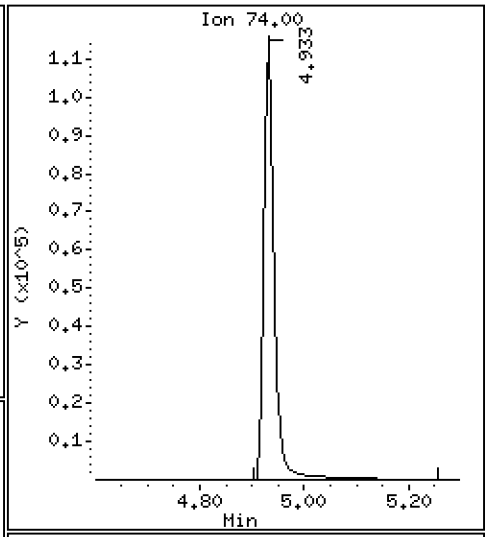
Column phase: ZB-5msi

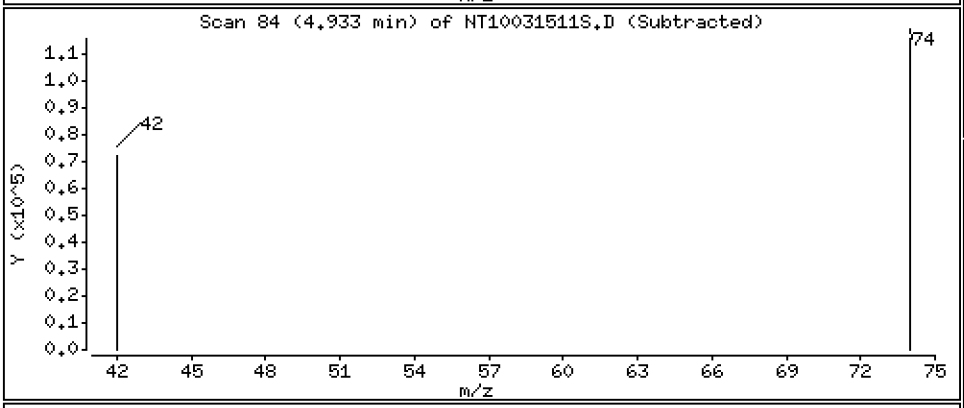
Column diameter: 0.25

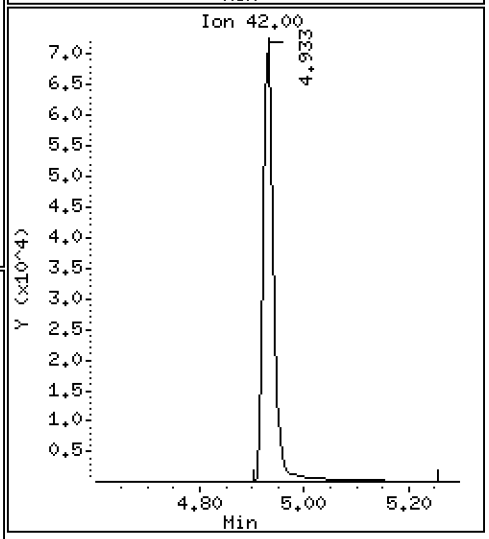
90 N-Nitrosodimethylamine

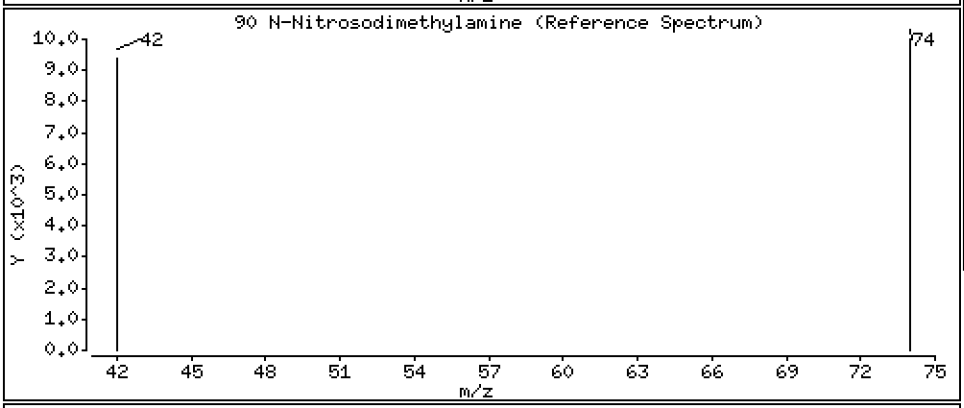
Concentration: 5.096 ug/L

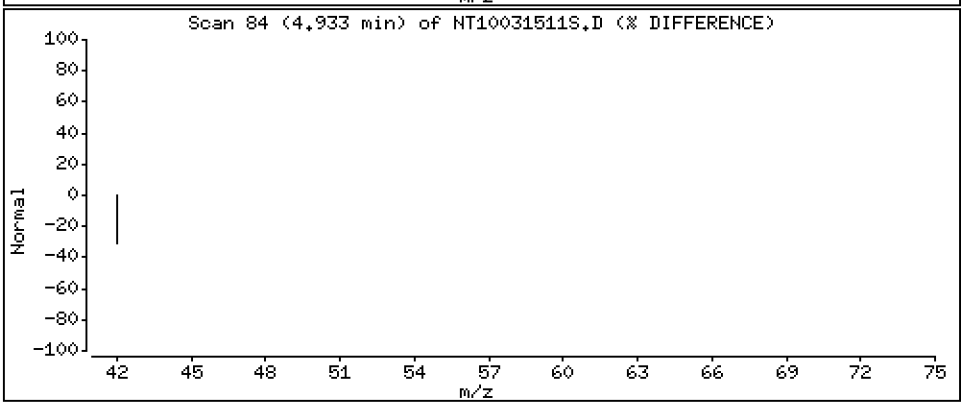












ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D
Lab Smp Id: SLC0238-SCV1
Inj Date : 16-MAR-2023 02:16 MS Autotune Date: 16-JAN-2023 17:42
Operator : JGR Inst ID: nt10.i
Smp Info : SLC0238-SCV1
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Meth Date : 16-Mar-2023 14:39 van Quant Type: ISTD
Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
$ 1	2-Fluorophenol	112	Compound Not Detected.					
3	Phenol	94	8.664	8.664	(0.931)	303581	4.37299	4.373
7	1,3-Dichlorobenzene	146	9.236	9.236	(0.992)	301605	4.64290	4.643
* 8	1,4-Dichlorobenzene-d4	152	9.306	9.298	(1.000)	166866	4.00000	
9	1,4-Dichlorobenzene	146	9.329	9.329	(1.002)	303390	4.83813	4.838
11	Benzyl alcohol	79	9.562	9.570	(1.028)	208505	5.18071	5.181
12	1,2-Dichlorobenzene	146	9.686	9.686	(1.041)	288539	4.67875	4.679
13	2-Methylphenol	108	9.772	9.772	(1.050)	201888	4.19698	4.197
15	4-Methylphenol	108	10.043	10.036	(1.079)	223083	4.46301	4.463
16	N-Nitroso-di-n-propylamine	70	10.121	10.113	(1.088)	186707	5.28174	5.282
22	2,4-Dimethylphenol	107	11.086	11.087	(0.942)	193654	3.66015	3.660
24	Benzoic acid	105	11.214	11.189	(0.952)	200487	6.74612	6.746
26	1,2,4-Trichlorobenzene	180	11.690	11.690	(0.993)	236605	4.44540	4.445
* 27	Naphthalene-d8	136	11.775	11.775	(1.000)	612104	4.00000	
30	Hexachlorobutadiene	225	12.169	12.169	(1.033)	150581	4.65339	4.653
39	Dimethylphthalate	163	14.877	14.877	(0.967)	472341	4.94766	4.948
* 42	Acenaphthene-d10	162	15.388	15.380	(1.000)	302524	4.00000	
50	Diethylphthalate	149	16.331	16.324	(1.061)	530540	5.36440	5.364
54	N-Nitrosodiphenylamine	169	16.725	16.717	(0.908)	377357	5.08034	5.080
57	Hexachlorobenzene	284	17.798	17.798	(0.966)	153405	4.61353	4.614

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	58 Pentachlorophenol	266	18.154	18.154	(0.985)	83223	4.41780	4.418
*	59 Phenanthrene-d10	188	18.425	18.417	(1.000)	553619	4.00000	
$	66 Terphenyl-d14	244	21.543	21.543	(0.918)	117	0.00154	0.001543(RM)
	67 Butylbenzylphthalate	149	22.464	22.465	(0.958)	332887	5.12147	5.121
*	69 Chrysene-d12	240	23.455	23.455	(1.000)	465428	4.00000	
*	77 Perylene-d12	264	26.188	26.188	(1.000)	532593	4.00000	
	79 Dibenzo(a,h)anthracene	278	29.026	29.019	(1.108)	722983	4.23762	4.238
	90 N-Nitrosodimethylamine	74	4.933	4.948	(0.530)	163555	5.09625	5.096

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT10031511S.D
Lab Smp Id: SLC0238-SCV1
Analysis Type: SV
Quant Type: ISTD
Operator: JGR
Method File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Misc Info:

Calibration Date: 15-MAR-2023
Calibration Time: 23:06
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	188081	94041	376162	166866	-11.28
27 Naphthalene-d8	674549	337275	1349098	612104	-9.26
42 Acenaphthene-d10	328275	164138	656550	302524	-7.84
59 Phenanthrene-d10	597140	298570	1194280	553619	-7.29
69 Chrysene-d12	466503	233252	933006	465428	-0.23
77 Perylene-d12	518203	259102	1036406	532593	2.78

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.30	8.80	9.80	9.31	0.08
27 Naphthalene-d8	11.77	11.27	12.27	11.78	0.01
42 Acenaphthene-d10	15.39	14.89	15.89	15.39	0.01
59 Phenanthrene-d10	18.42	17.92	18.92	18.43	0.00
69 Chrysene-d12	23.45	22.95	23.95	23.46	0.00
77 Perylene-d12	26.19	25.69	26.69	26.19	0.00

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

REVIEW SUMMARY FOR FILE - NT10031511S.D

Lab ID: SLC0238-SCV1
nt10.i, 20230315.b\20230315.b\SIMABN2.m,   16-MAR-2023 02:16

RT	CO-ELUTION COMPOUNDS
NO CO-ELUTIONS	

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.952	0.000	0.9524	Benzoic acid

RRT check based on Ccal File: 20230315.b/NT10031510S.D

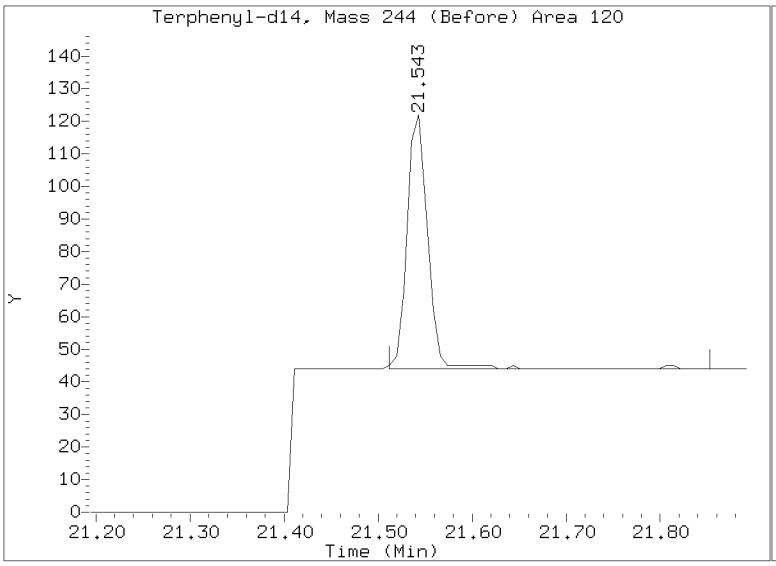
On Column LOD for nt10.i, 20230315.b\SIMABN2.m, PSDDA.sub = 0.0000

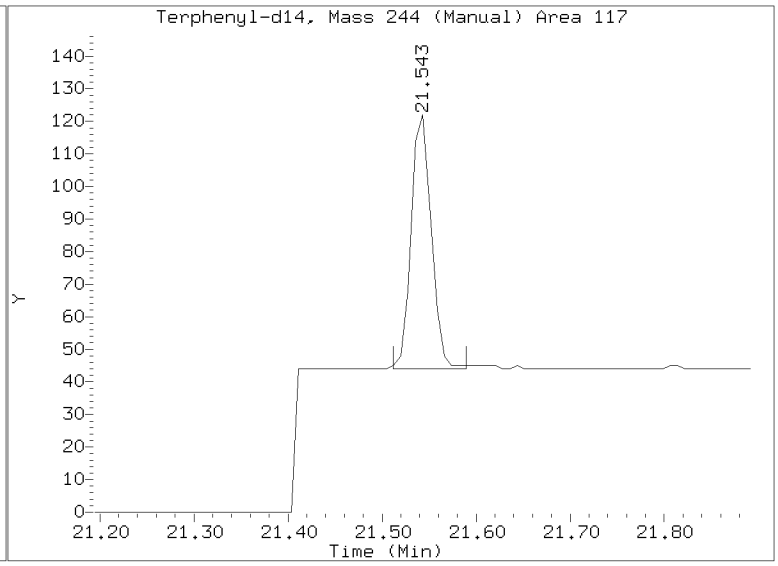
Exception: 1,2,4-Trichlorobenzene 0.0010

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230315.b/20230315.b/NT10031511S.D
Injection Date: 16-MAR-2023 02:16
Lab ID:SLC0238-SCV1 Client ID:
Report Date: 03/16/2023 14:49





Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	NT10	Calibration:	GC00049
Lab File ID:	NT1003212303S.D	Calibration Date:	03/15/2023
Sequence:	SLC0452	Injection Date:	03/21/23
Lab Sample ID:	SLC0452-ICV1	Injection Time:	18:25
Sequence Name:	ABN 1		

		CONC. (ug/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
1,4-Dichlorobenzene	A	1.0000	1.0	1.5031980	1.5639130		4.0	+/-20
1,2-Dichlorobenzene	A	1.0000	1.1	1.4783140	1.5527220		5.0	+/-20
Benzyl Alcohol	A	1.0000	0.9	0.9647610	0.8766510		-9.1	+/-20
Benzoic acid	A	4.0000	3.9	0.1358970	0.1866151		-2.8	+/-20
2,4-Dimethylphenol	A	2.0000	1.9	0.3457498	0.3275178		-5.3	+/-20
1,2,4-Trichlorobenzene	A	1.0000	1.0	0.3478148	0.3648446		4.9	+/-20
N-Nitrosodiphenylamine	A	1.0000	1.1	0.5366720	0.5971559		11.3	+/-20
Pentachlorophenol	A	2.0000	1.9	0.0934250	0.1300890		-3.0	+/-20
2-Fluorophenol	A	1.5000	1.55	1.2129820	1.2495270		3.0	+/-20
p-Terphenyl-d14	A	1.0000	0.933	0.6517430	0.6079382		-6.7	+/-20
1,4-Dichlorobenzene-d4	A	4.0000	4.0	46867.7500	1.0000		0.0	
Naphthalene-d8	A	4.0000	4.0	167312.2000	1.0000		0.0	
Acenaphthene-d10	A	4.0000	4.0	81972.4400	1.0000		0.0	
Phenanthrene-d10	A	4.0000	4.0	150166.2000	1.0000		0.0	
Chrysene-d12	A	4.0000	4.0	110890.6000	1.0000		0.0	
Perylene-d12	A	4.0000	4.0	124876.5000	1.0000		0.0	

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT10032123033.D

Date : 21-MAR-2023 18:25

Client ID:

Instrument: nt10.i

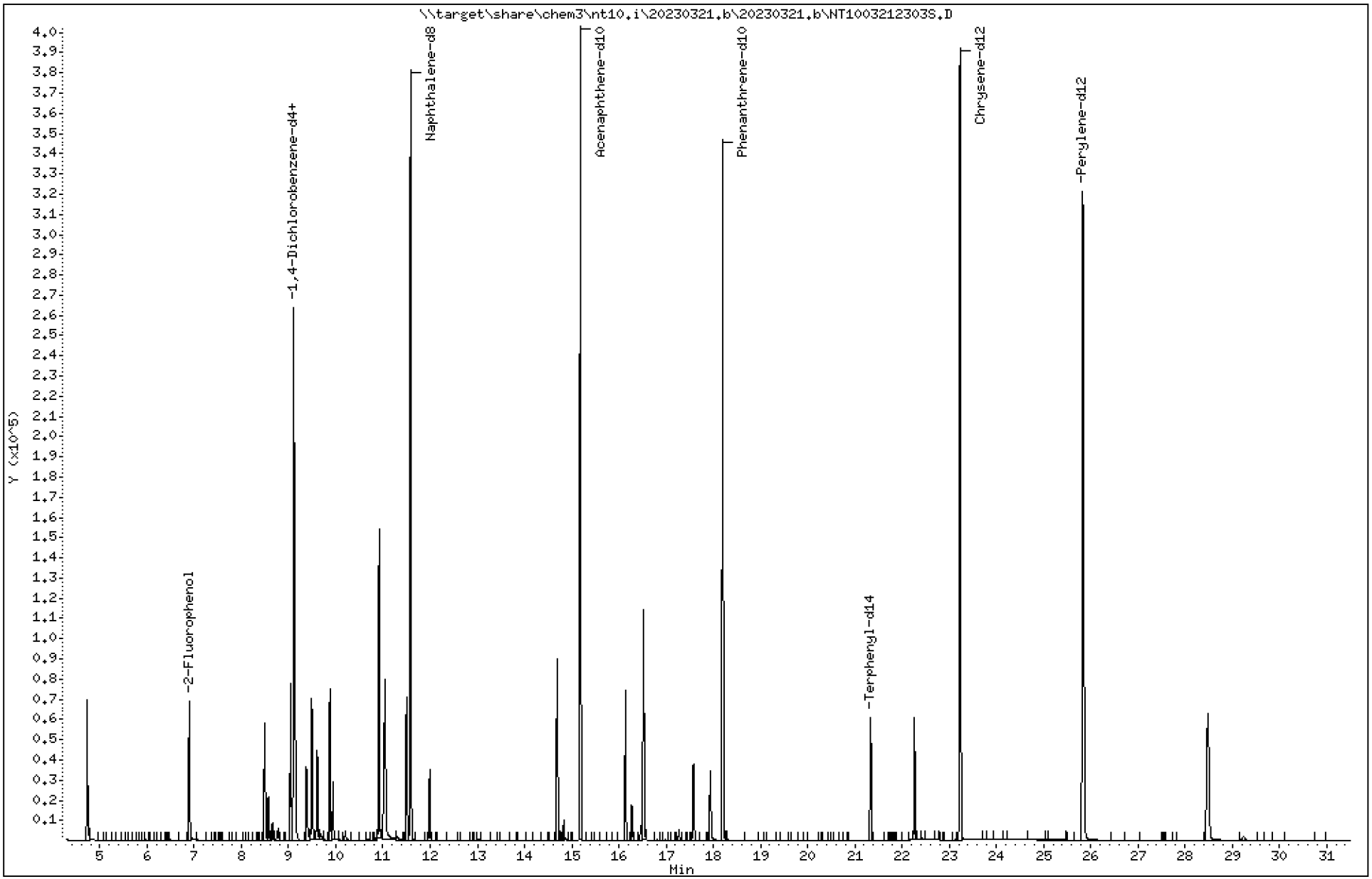
Sample Info: SLC0452-ICV1

Volume Injected (uL): 1.0

Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25



ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212303S.D
Lab Smp Id: SLC0452-ICV1
Inj Date : 21-MAR-2023 18:25 MS Autotune Date: 16-JAN-2023 17:42
Operator : JGR Inst ID: nt10.i
Smp Info : SLC0452-ICV1
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230321.b\20230321.b\SIMABN2.m
Meth Date : 29-Mar-2023 09:55 van Quant Type: ISTD
Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
$	1 2-Fluorophenol	112	6.895	6.895	(0.757)	76203	1.50000	1.545
	3 Phenol	94	8.494	8.494	(0.933)	69762	1.00000	1.031
	7 1,3-Dichlorobenzene	146	9.043	9.043	(0.993)	66009	1.00000	1.043
*	8 1,4-Dichlorobenzene-d4	152	9.105	9.105	(1.000)	162628	4.00000	
	9 1,4-Dichlorobenzene	146	9.136	9.136	(1.003)	63584	1.00000	1.040
	11 Benzyl alcohol	79	9.377	9.377	(1.030)	35642	1.00000	0.9087
	12 1,2-Dichlorobenzene	146	9.493	9.493	(1.043)	63129	1.00000	1.050
	13 2-Methylphenol	108	9.602	9.602	(1.055)	47918	1.00000	1.022
	15 4-Methylphenol	108	9.874	9.874	(1.084)	50656	1.00000	1.040
	16 N-Nitroso-di-n-propylamine	70	9.936	9.936	(1.091)	31759	1.00000	0.9218
	22 2,4-Dimethylphenol	107	10.914	10.914	(0.942)	95026	2.00000	1.895
	24 Benzoic acid	105	11.042	11.042	(0.953)	108289	4.00000	3.889
	26 1,2,4-Trichlorobenzene	180	11.500	11.500	(0.993)	52928	1.00000	1.049
*	27 Naphthalene-d8	136	11.585	11.585	(1.000)	580280	4.00000	
	30 Hexachlorobutadiene	225	11.987	11.987	(1.035)	32448	1.00000	1.058
	39 Dimethylphthalate	163	14.695	14.695	(0.968)	110623	1.00000	1.179
*	42 Acenaphthene-d10	162	15.183	15.183	(1.000)	297255	4.00000	
	50 Diethylphthalate	149	16.141	16.141	(1.063)	109964	1.00000	1.132
	54 N-Nitrosodiphenylamine	169	16.520	16.520	(0.908)	83765	1.00000	1.113
	57 Hexachlorobenzene	284	17.584	17.584	(0.966)	35967	1.00000	1.067

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
	58 Pentachlorophenol	266	17.941	17.941	(0.986)	36496	2.00000	1.940
*	59 Phenanthrene-d10	188	18.196	18.196	(1.000)	561093	4.00000	
$	66 Terphenyl-d14	244	21.337	21.337	(0.918)	75814	1.00000	0.9328
	67 Butylbenzylphthalate	149	22.259	22.259	(0.958)	71711	1.00000	1.081
*	69 Chrysene-d12	240	23.234	23.234	(1.000)	498827	4.00000	
*	77 Perylene-d12	264	25.836	25.836	(1.000)	558480	4.00000	
	79 Dibenzo(a,h)anthracene	278	28.487	28.487	(1.103)	182722	1.00000	1.002
	90 N-Nitrosodimethylamine	74	4.732	4.732	(0.520)	61445	2.00000	1.964

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1003212303S.D
Lab Smp Id: SLC0452-ICV1
Analysis Type: SV
Quant Type: ISTD
Operator: JGR
Method File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\SIMABN2.m
Misc Info:

Calibration Date: 21-MAR-2023
Calibration Time: 13:07
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	162628	81314	325256	162628	0.00
27 Naphthalene-d8	580280	290140	1160560	580280	0.00
42 Acenaphthene-d10	297255	148628	594510	297255	0.00
59 Phenanthrene-d10	561093	280547	1122186	561093	0.00
69 Chrysene-d12	498827	249414	997654	498827	0.00
77 Perylene-d12	558480	279240	1116960	558480	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.11	8.61	9.61	9.11	0.00
27 Naphthalene-d8	11.59	11.09	12.09	11.59	0.00
42 Acenaphthene-d10	15.18	14.68	15.68	15.18	0.00
59 Phenanthrene-d10	18.20	17.70	18.70	18.20	0.00
69 Chrysene-d12	23.23	22.73	23.73	23.23	0.00
77 Perylene-d12	25.84	25.34	26.34	25.84	0.00

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

REVIEW SUMMARY FOR FILE - NT1003212303S.D

Lab ID: SLC0452-ICV1
nt10.i, 20230321.b\20230321.b\SIMABN2.m,   21-MAR-2023 18:25

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

No RRT check. Ccal file.

On Column LOD for nt10.i, 20230321.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

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

Q-FLAG SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230321.b\20230321.b

Instrument: nt10.i Date: 21-MAR-2023 Method: 20230321.b\SIMABN2.m

INITIAL CAL: 15-MAR-2023

Compound	%RSD or R^2
NO Q-FLAGS	

ICV CAL: NT1003212303S.D 21-MAR-2023 18:25

Compound	%D
NO Q-FLAGS	

Analytical Resources, LLC
Analytical Chemists and Consultants

SECOND-SOURCE
CONTINUING CALIBRATION CHECK
EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	NT10	Calibration:	GC00049
Lab File ID:	NT10031511S.D	Calibration Date:	03/15/2023
Sequence:	SLC0238	Injection Date:	03/16/23
Lab Sample ID:	SLC0238-SCV1	Injection Time:	02:16
Sequence Name:	SCV 5.0		

		CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT	
1,4-Dichlorobenzene	A	5.0000	4.8	1.5031980	1.4545320		-3.2	+/-20	
1,2-Dichlorobenzene	A	5.0000	4.7	1.4783140	1.3833330		-6.4	+/-20	
Benzyl Alcohol	A	5.0000	5.2	0.9647610	0.9996284		3.6	+/-20	
Benzoic acid	A	10.000	6.7	0.1358970	0.1310150		-32.5	+/-20	*
2,4-Dimethylphenol	A	5.0000	3.7	0.3457498	0.2530995		-26.8	+/-20	*
1,2,4-Trichlorobenzene	A	5.0000	4.4	0.3478148	0.3092350		-11.1	+/-20	
N-Nitrosodiphenylamine	A	5.0000	5.1	0.5366720	0.5452949		1.6	+/-20	
Pentachlorophenol	A	5.0000	4.4	0.0934250	0.1202603		-11.6	+/-20	
2-Fluorophenol	A	7.5000	0.00	1.2129820					
p-Terphenyl-d14	A	5.0000	0.00154	0.6517430	0.0002011		-100		

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

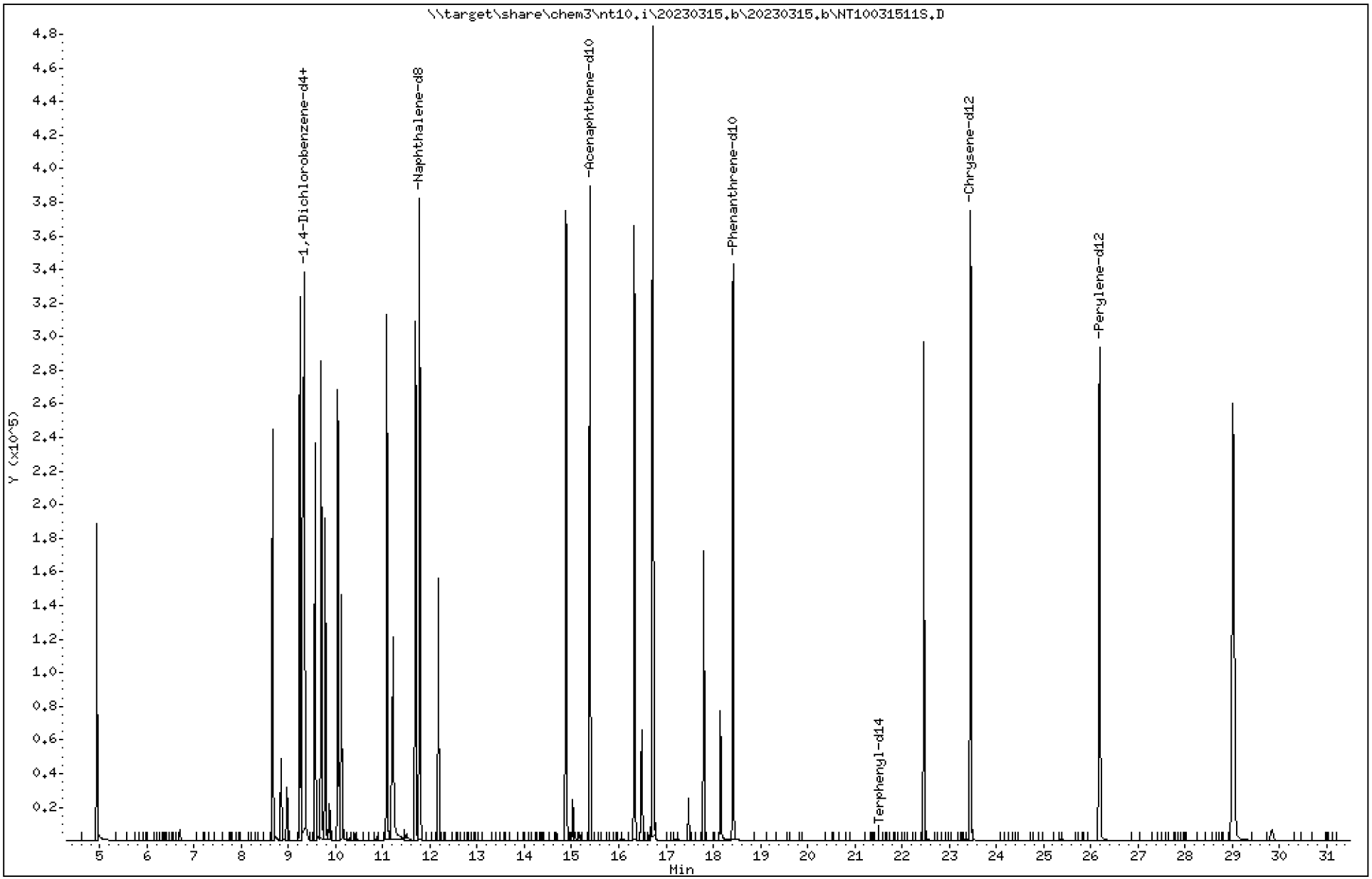
Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25



Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

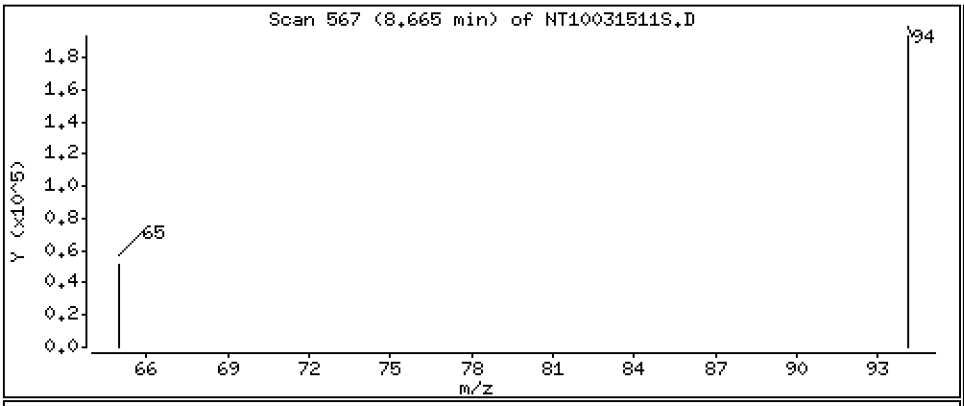
Operator: JGR

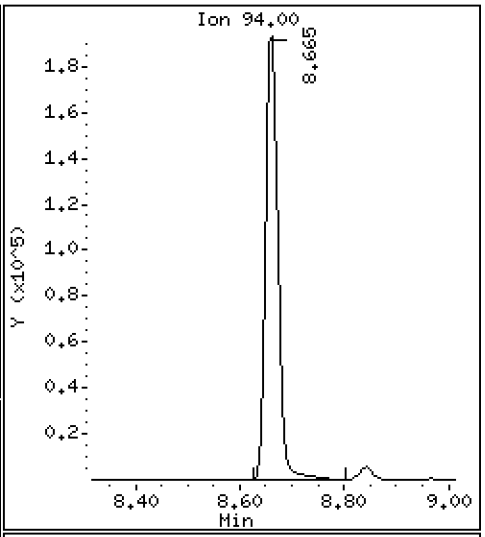
Column phase: ZB-5msi

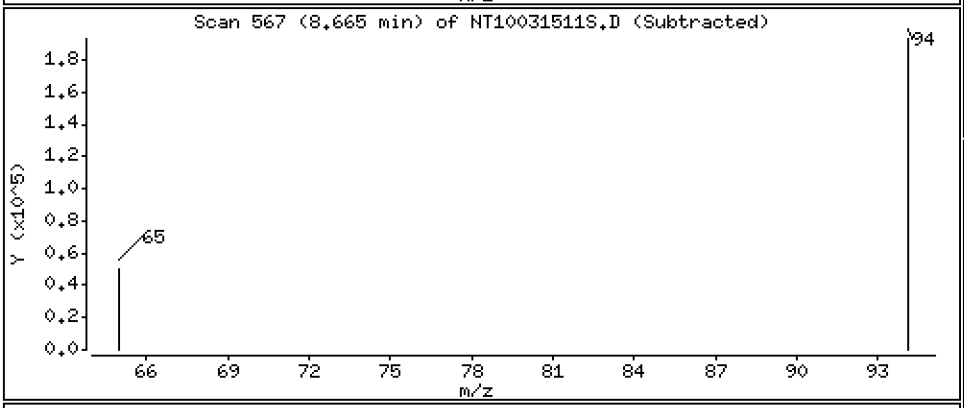
Column diameter: 0.25

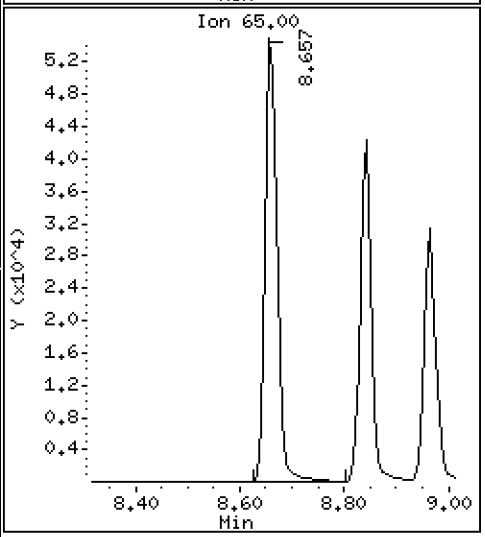
3 Phenol

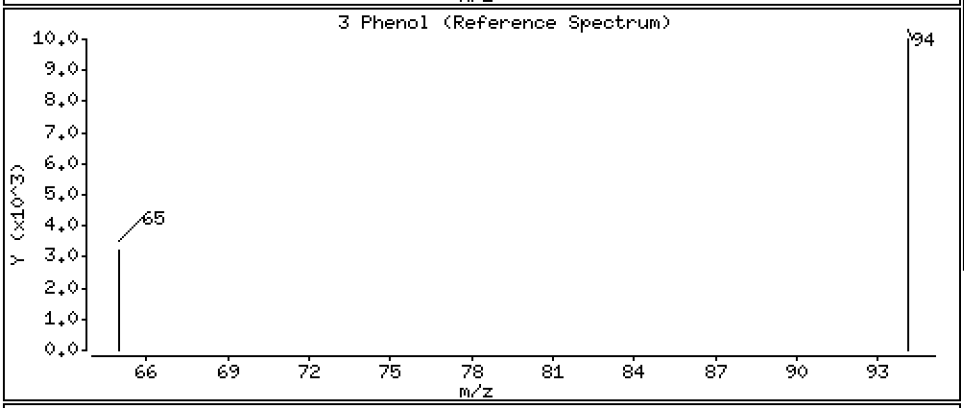
Concentration: 4.373 ug/L

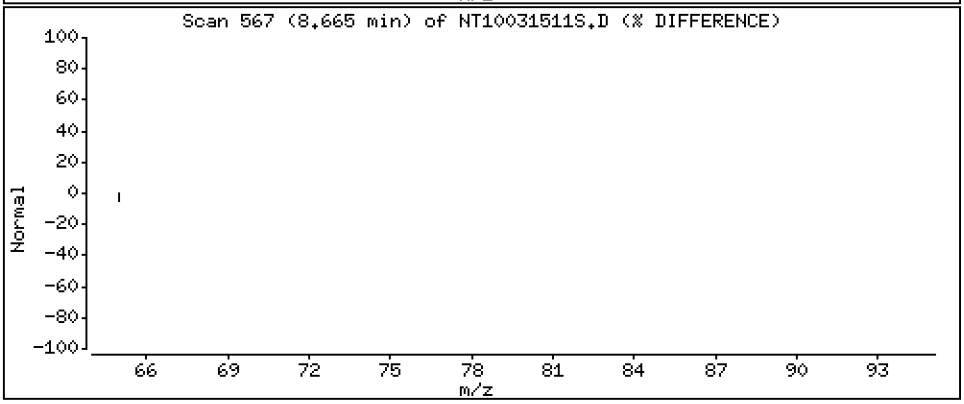












Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

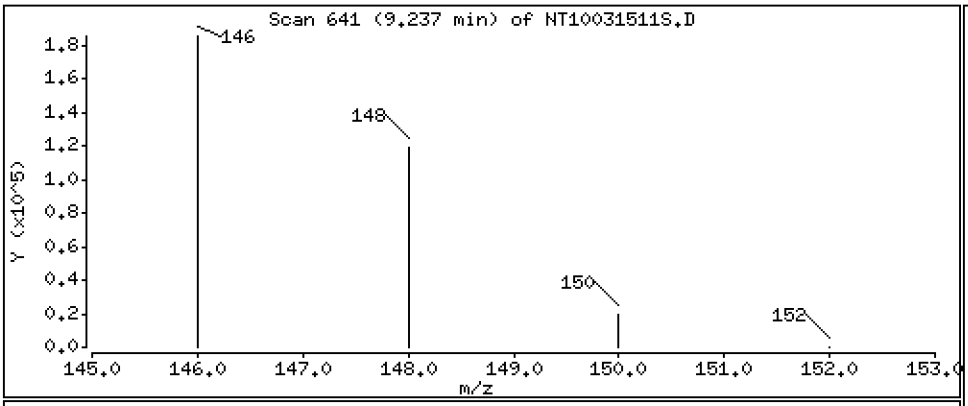
Operator: JGR

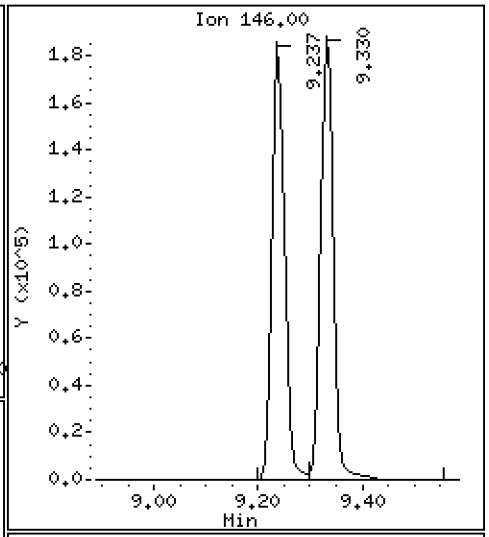
Column phase: ZB-5msi

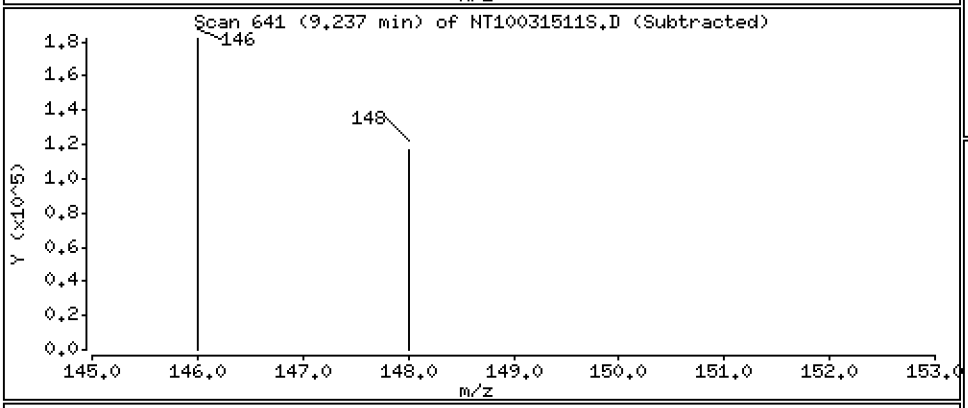
Column diameter: 0.25

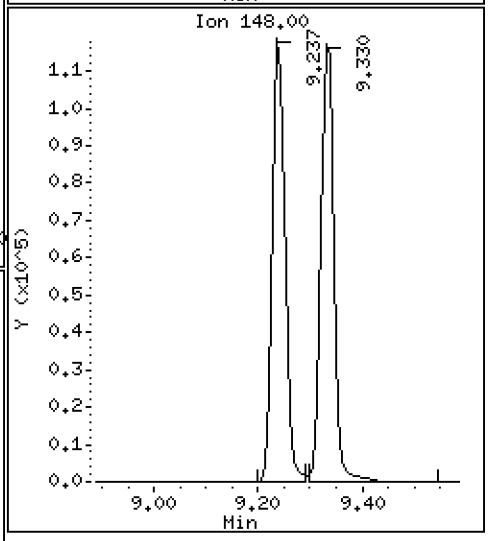
7 1,3-Dichlorobenzene

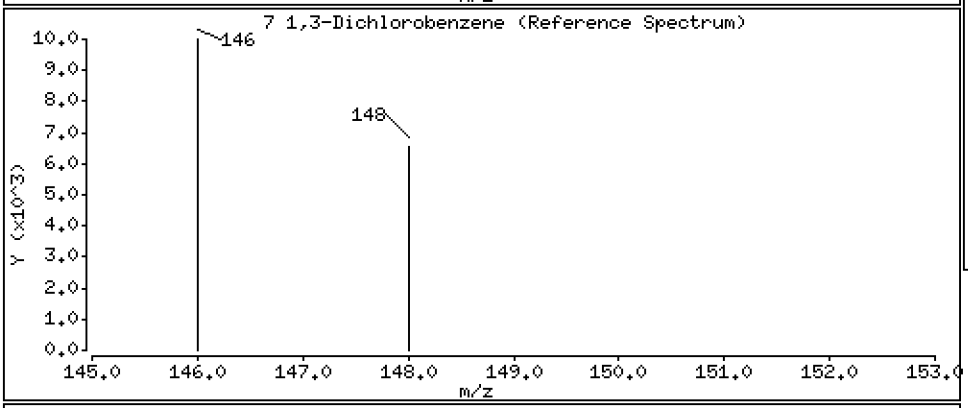
Concentration: 4.643 ug/L

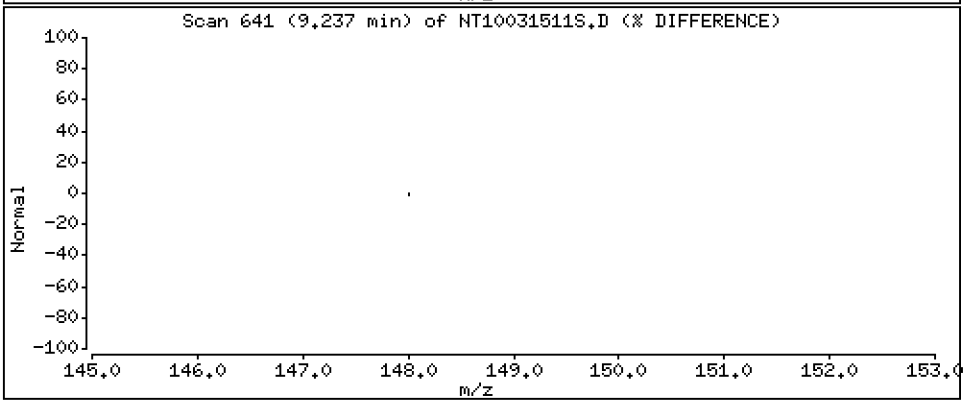












Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

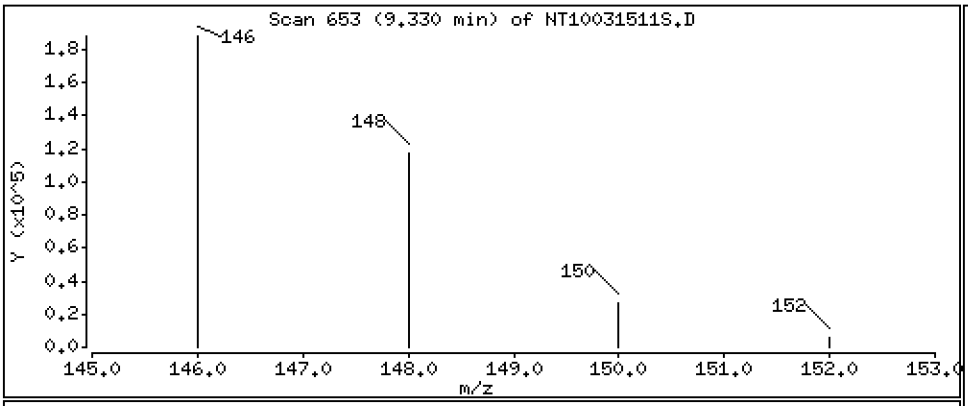
Operator: JGR

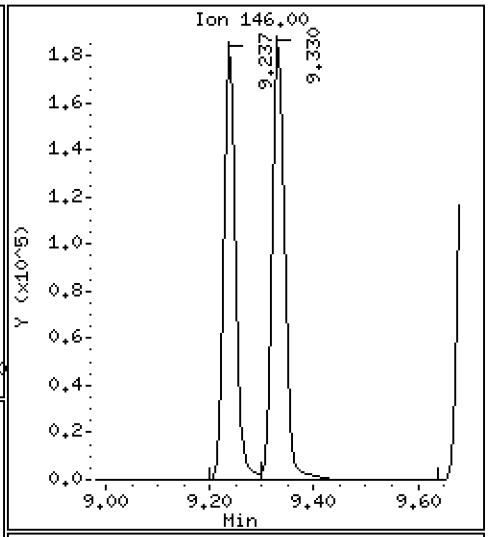
Column phase: ZB-5msi

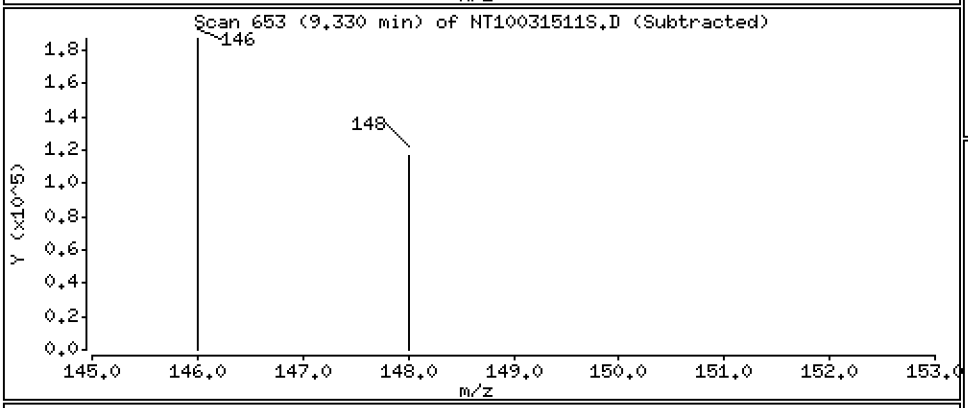
Column diameter: 0.25

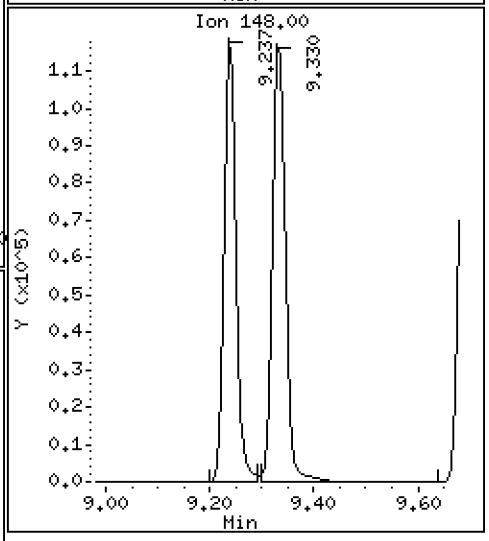
9 1,4-Dichlorobenzene

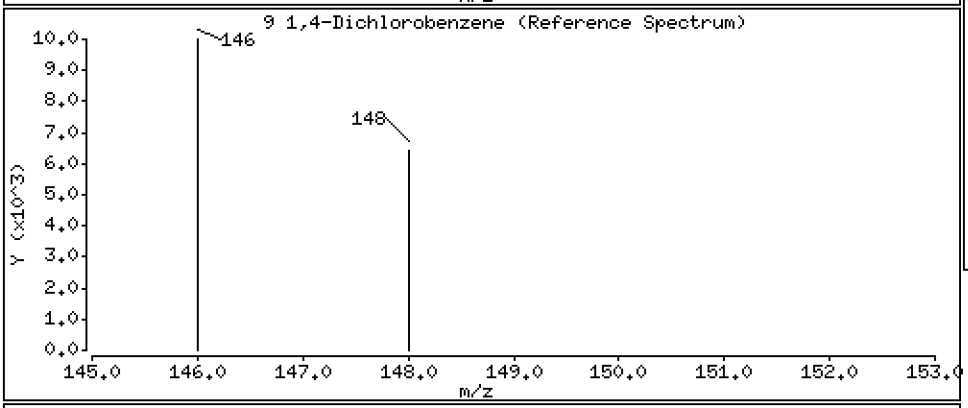
Concentration: 4.838 ug/L

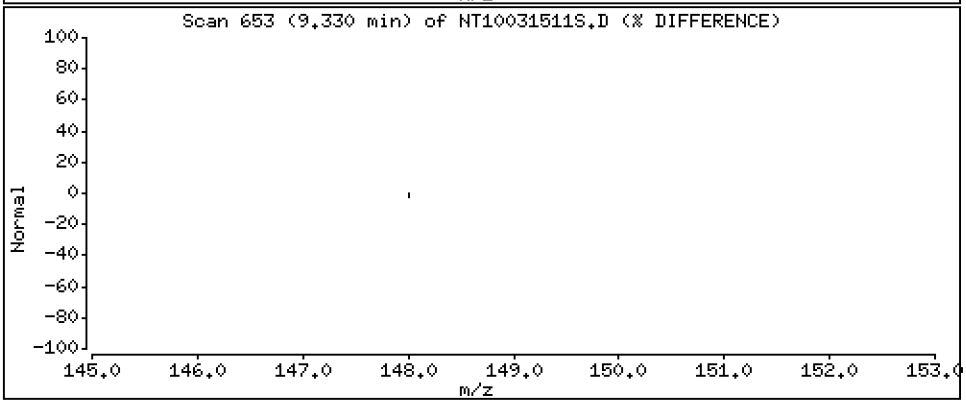












Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

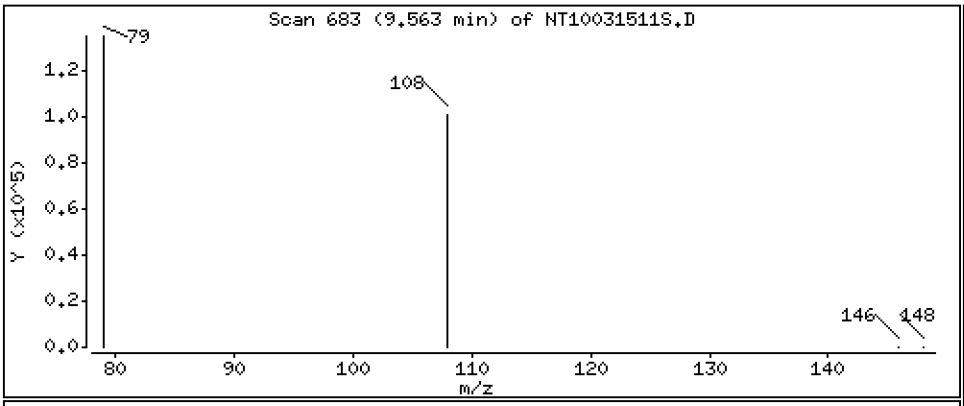
Operator: JGR

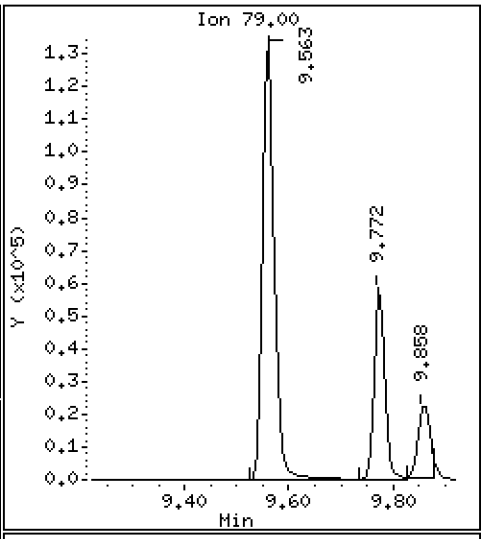
Column phase: ZB-5msi

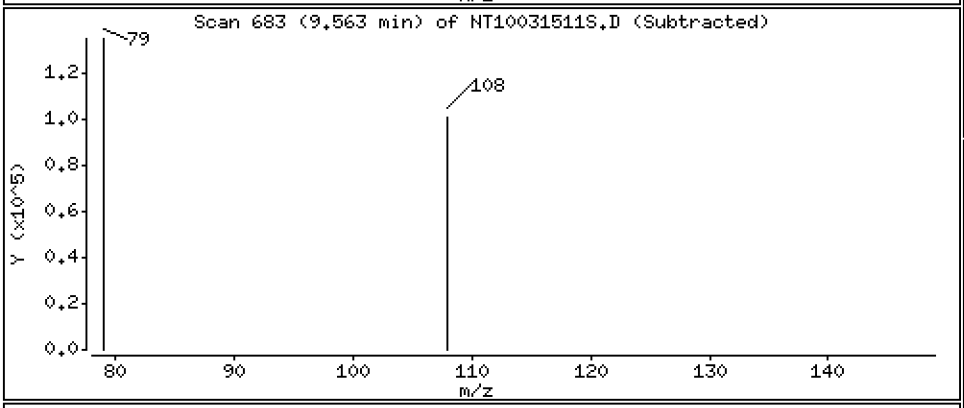
Column diameter: 0.25

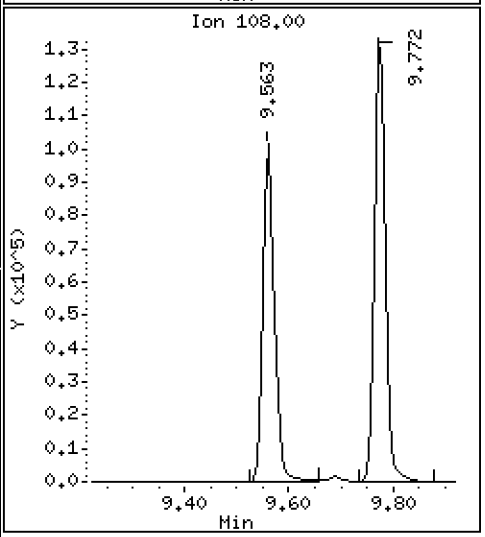
11 Benzyl alcohol

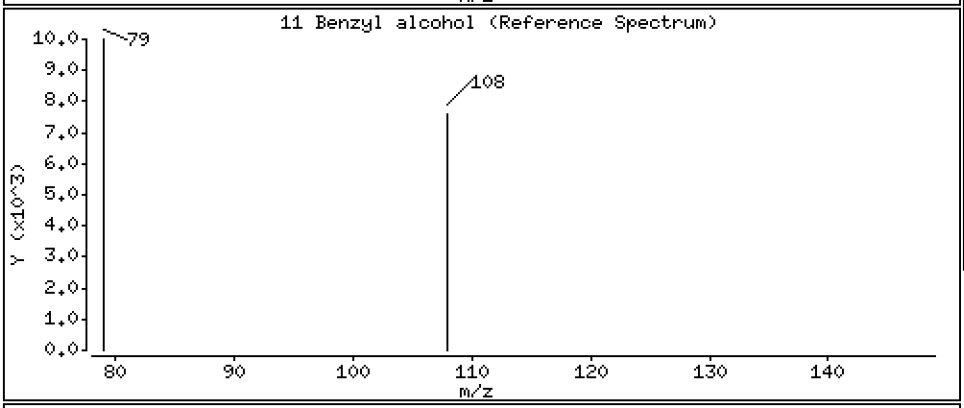
Concentration: 5.181 ug/L

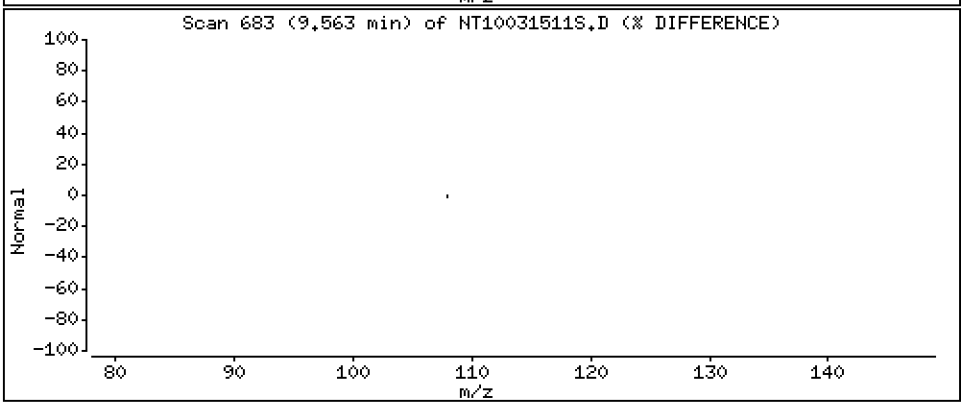












Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

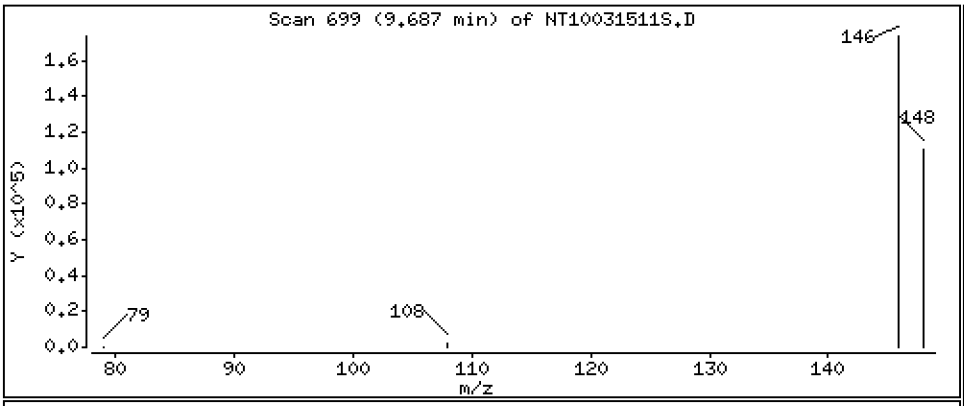
Operator: JGR

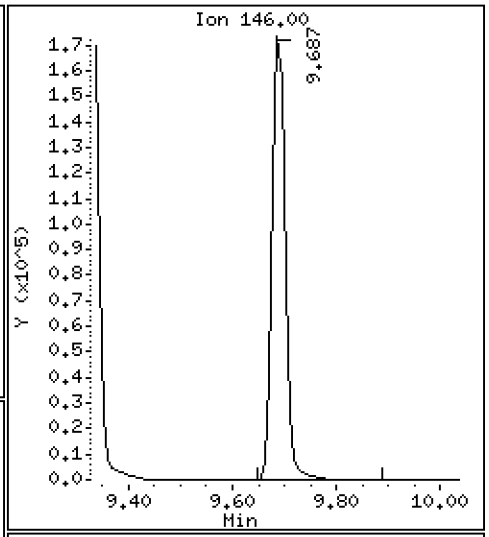
Column phase: ZB-5msi

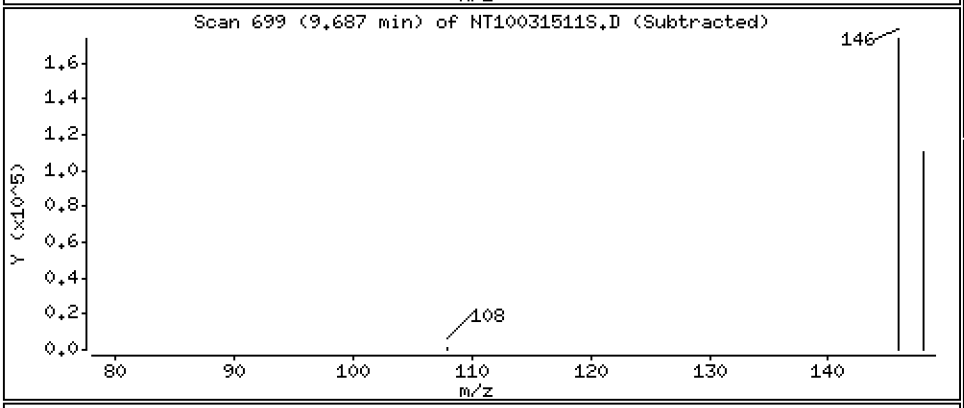
Column diameter: 0.25

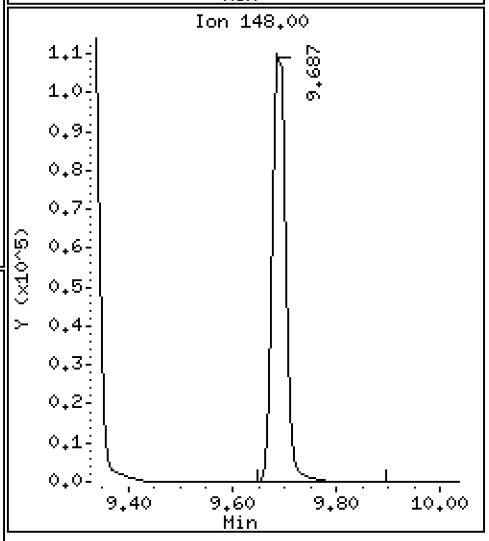
12 1,2-Dichlorobenzene

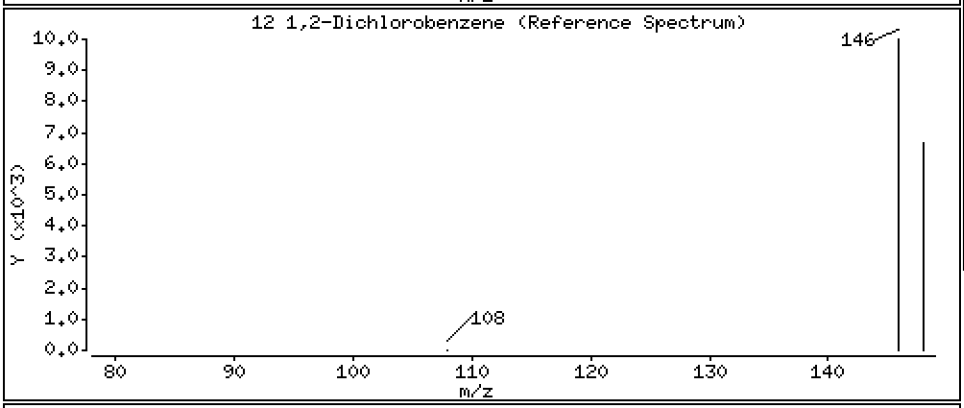
Concentration: 4.679 ug/L

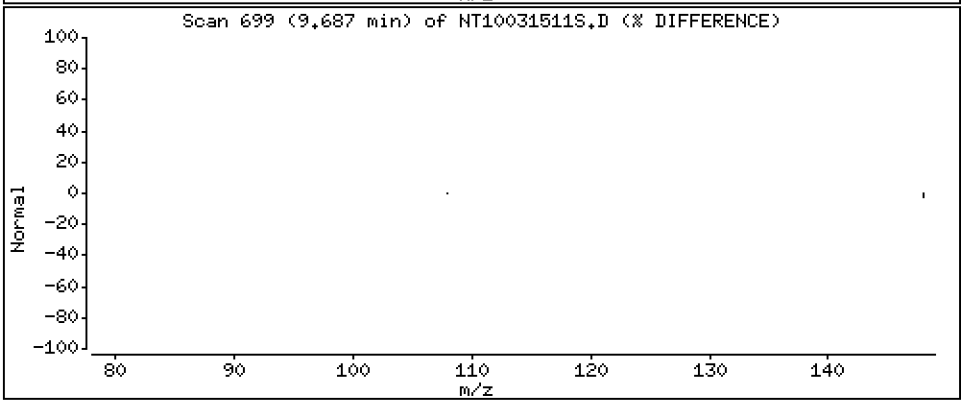












Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

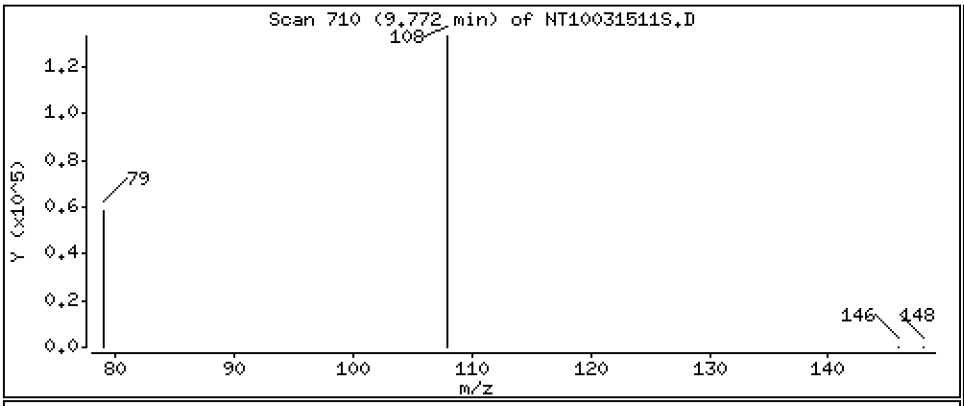
Operator: JGR

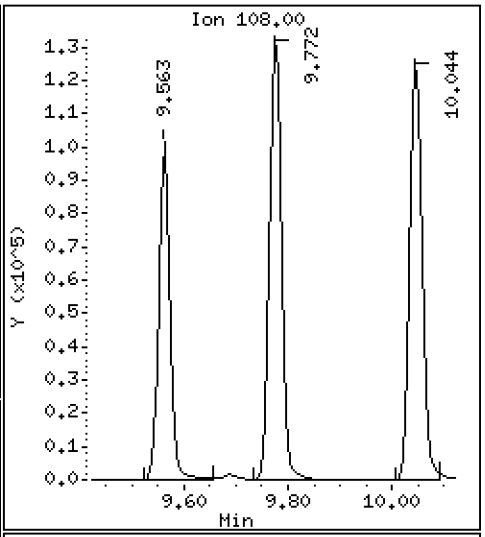
Column phase: ZB-5msi

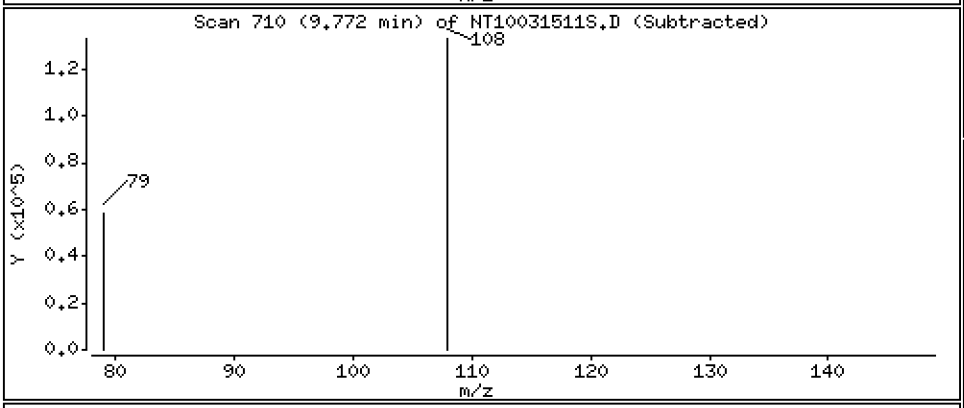
Column diameter: 0.25

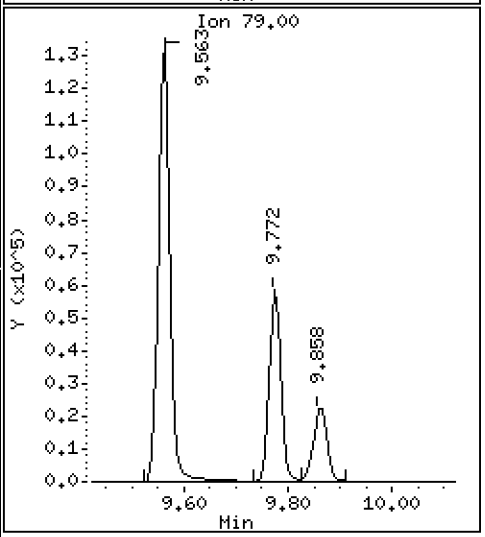
13 2-Methylphenol

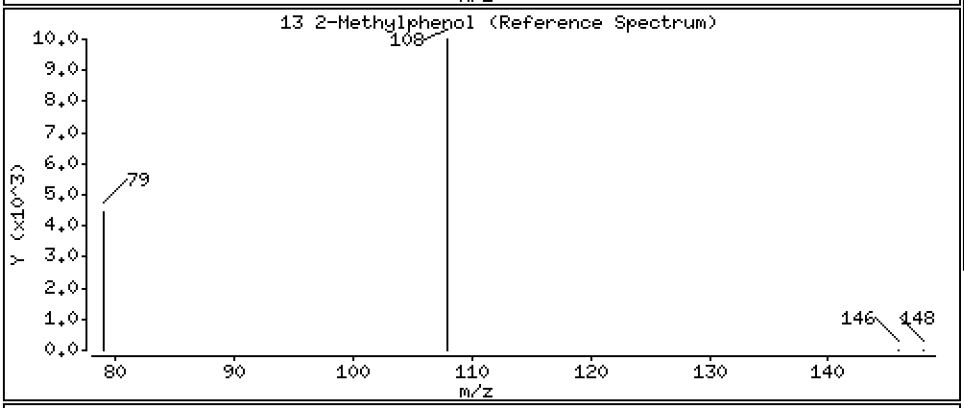
Concentration: 4.197 ug/L

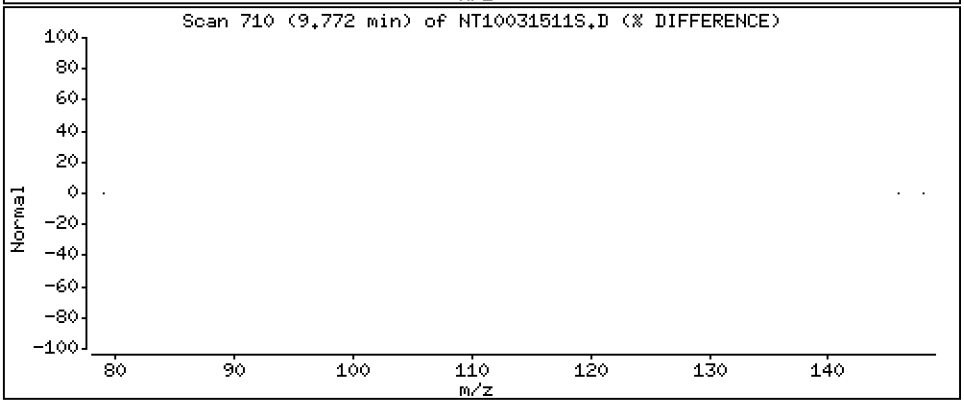












Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

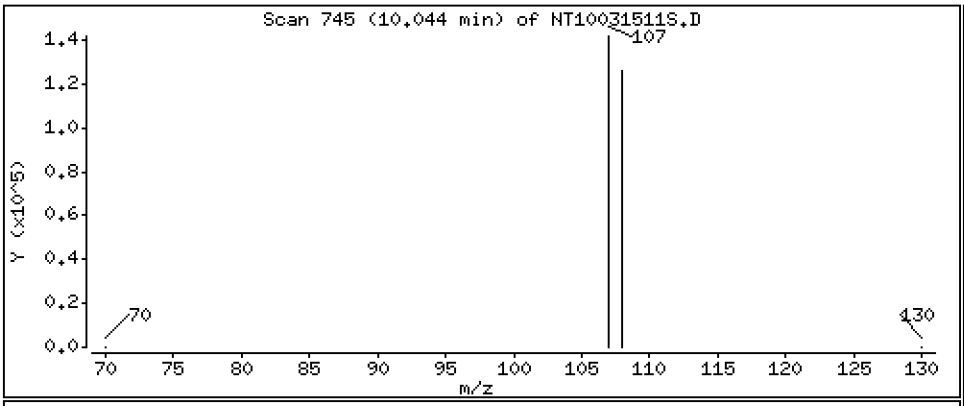
Operator: JGR

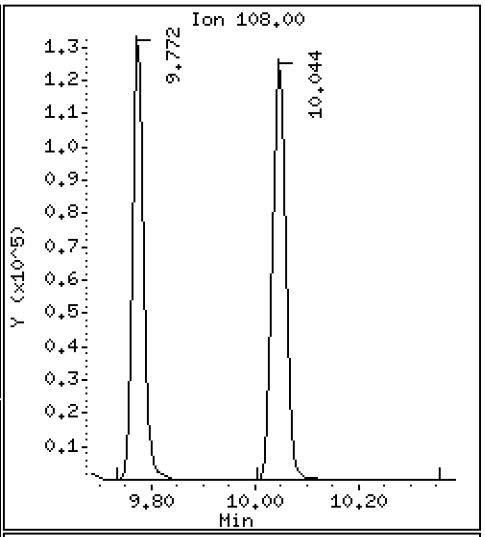
Column phase: ZB-5msi

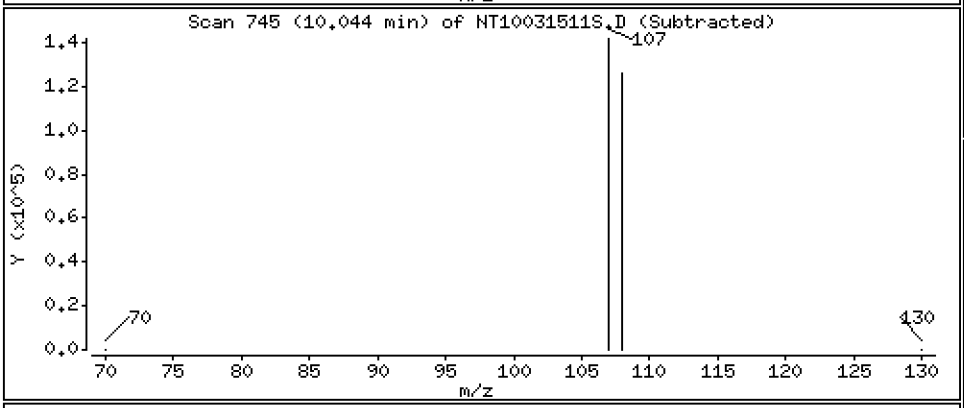
Column diameter: 0.25

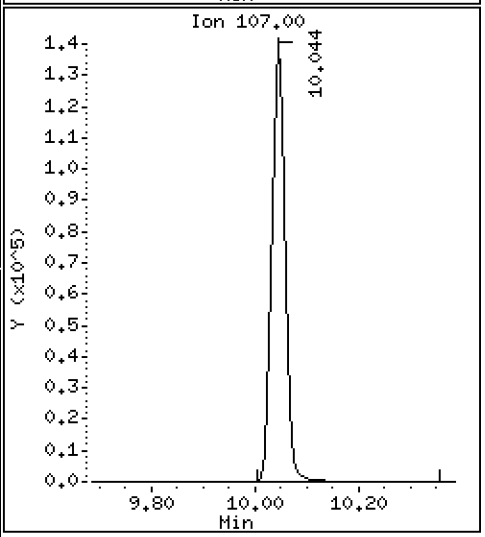
15 4-Methylphenol

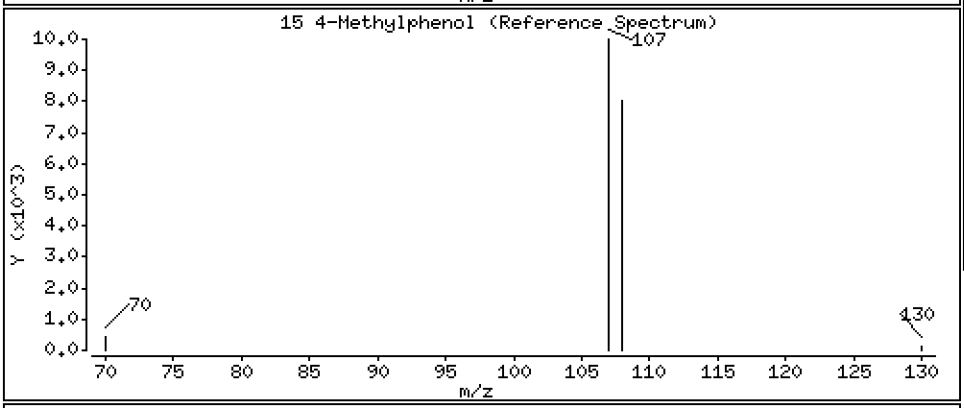
Concentration: 4.463 ug/L

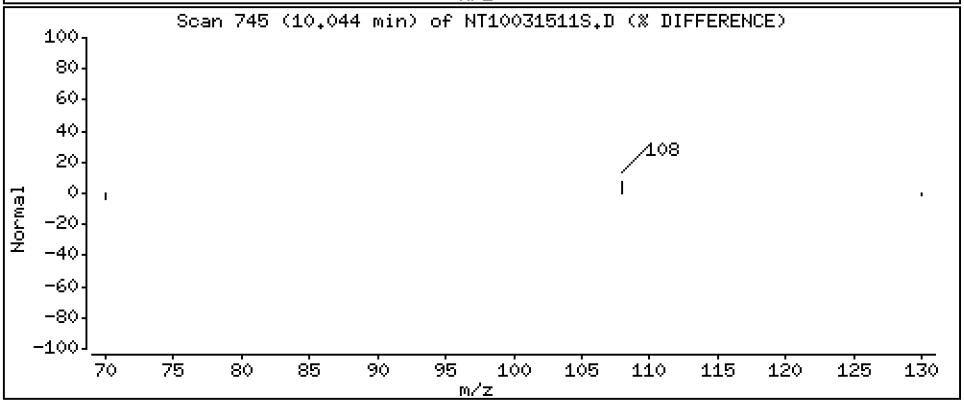












Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

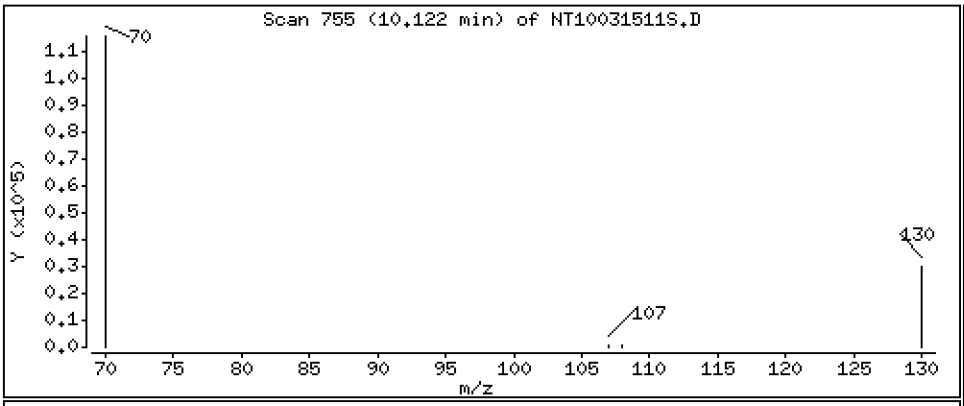
Operator: JGR

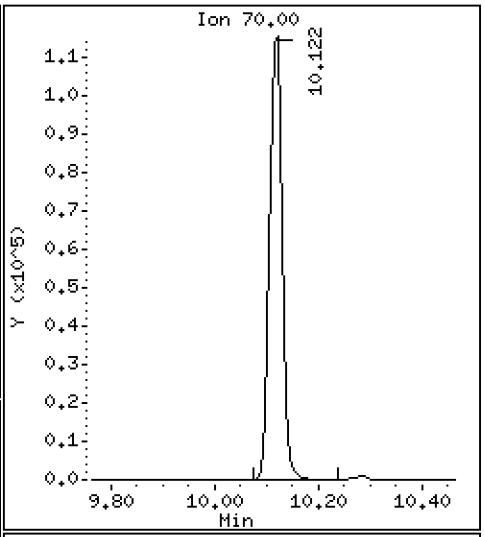
Column phase: ZB-5msi

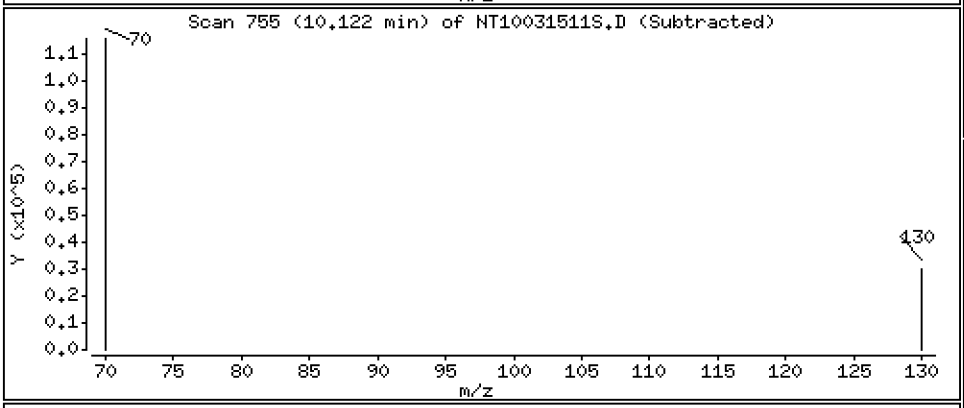
Column diameter: 0.25

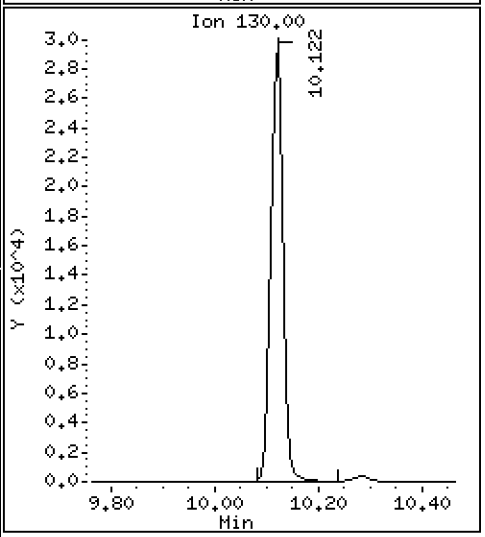
16 N-Nitroso-di-n-propylamine

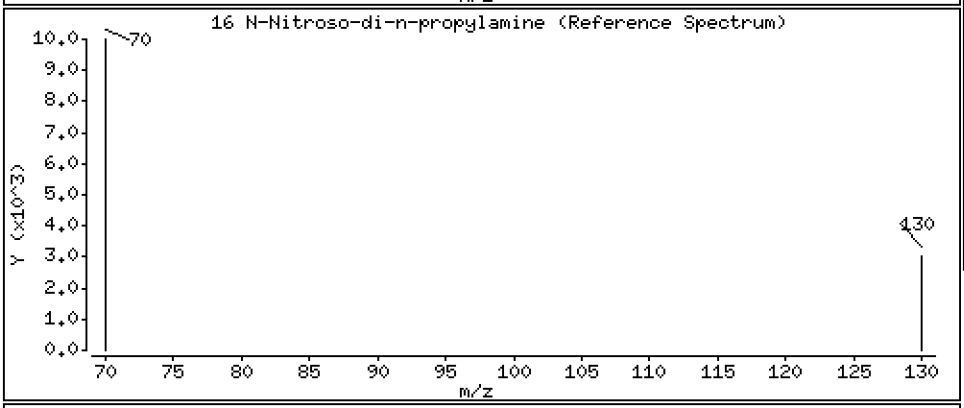
Concentration: 5.282 ug/L

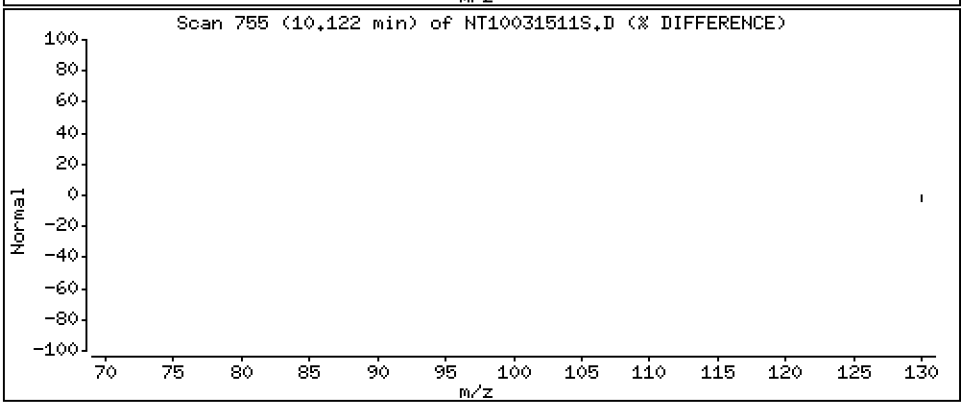












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

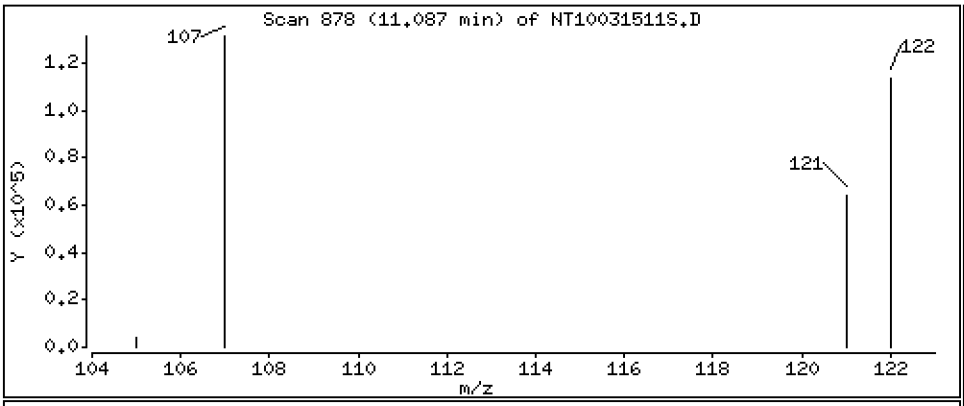
Operator: JGR

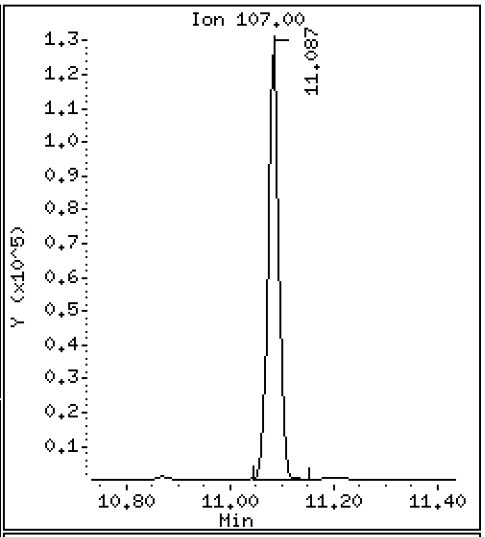
Column phase: ZB-5msi

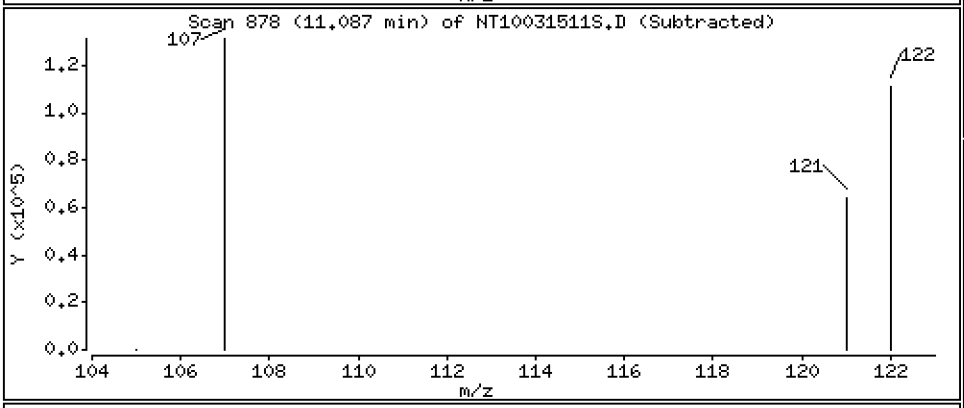
Column diameter: 0.25

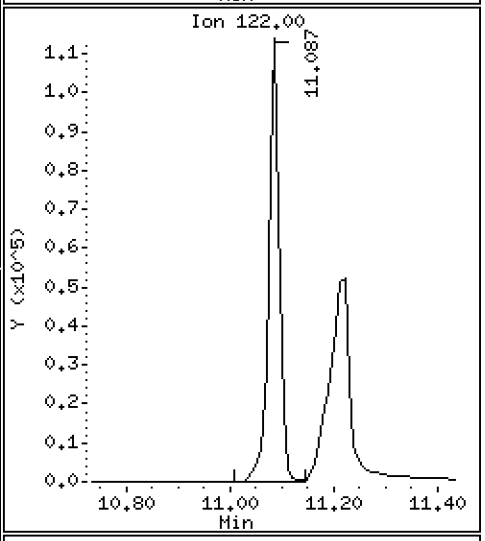
22 2,4-Dimethylphenol

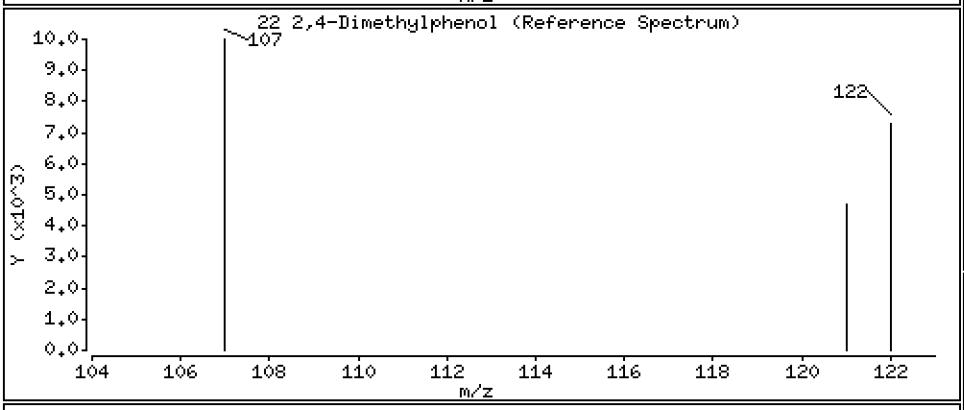
Concentration: 3.660 ug/L

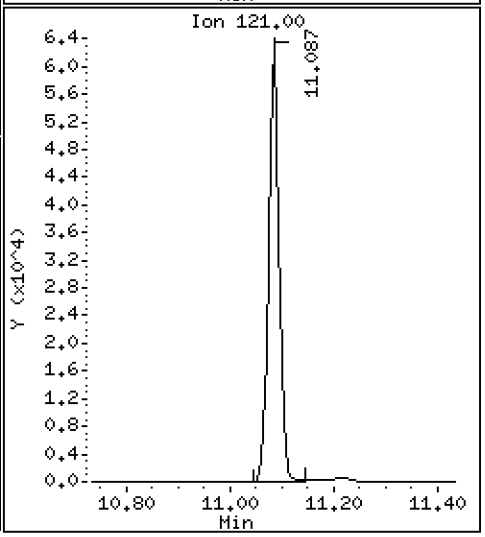


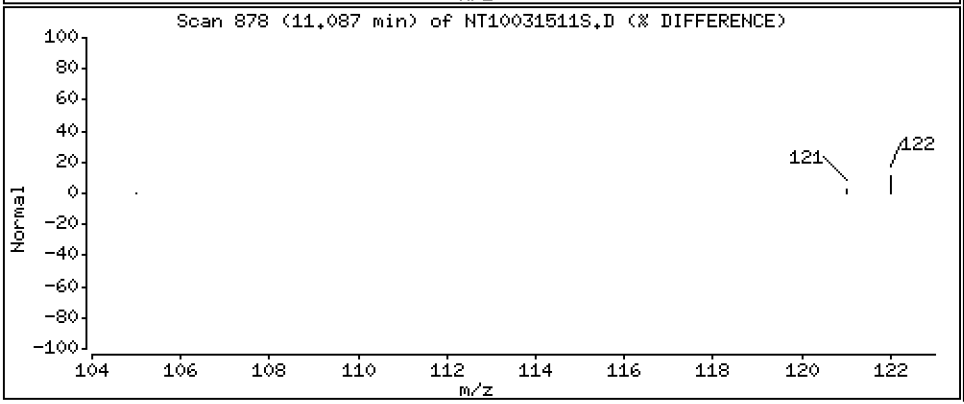












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

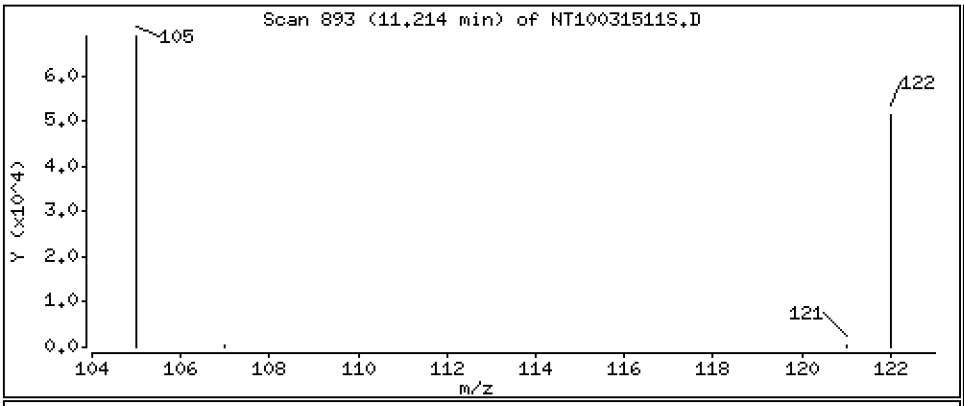
Operator: JGR

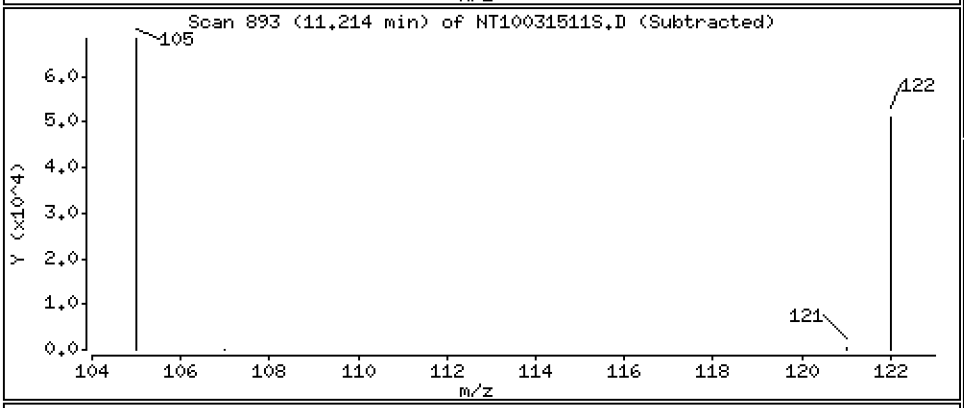
Column phase: ZB-5msi

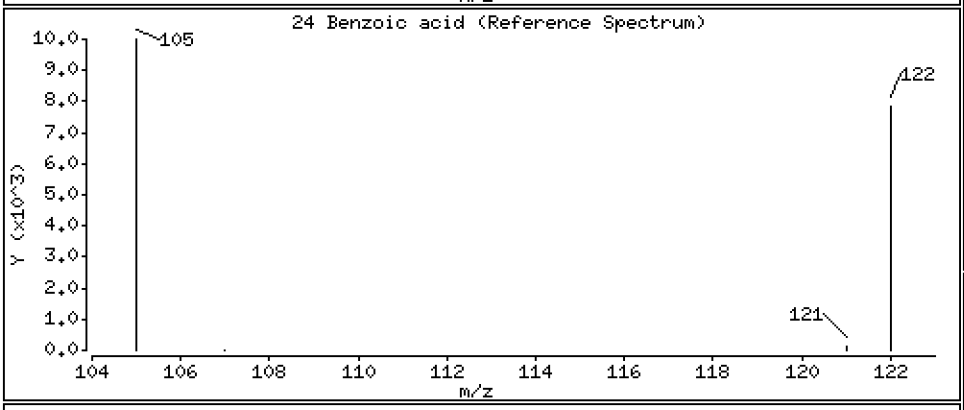
Column diameter: 0.25

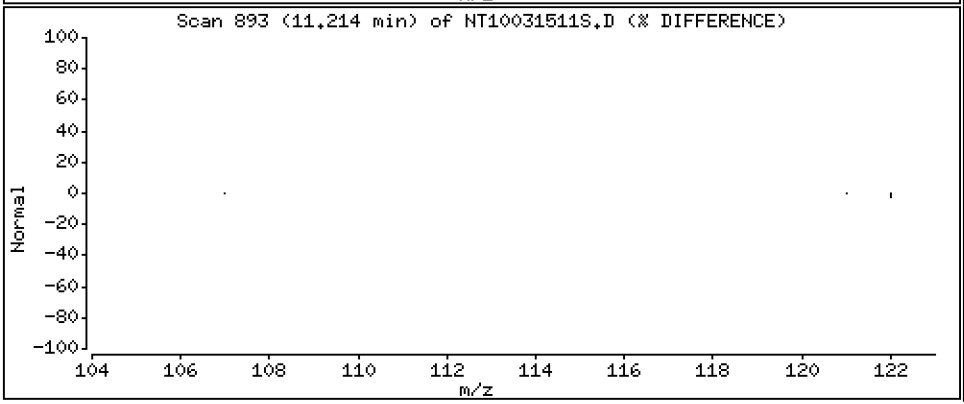
24 Benzoic acid

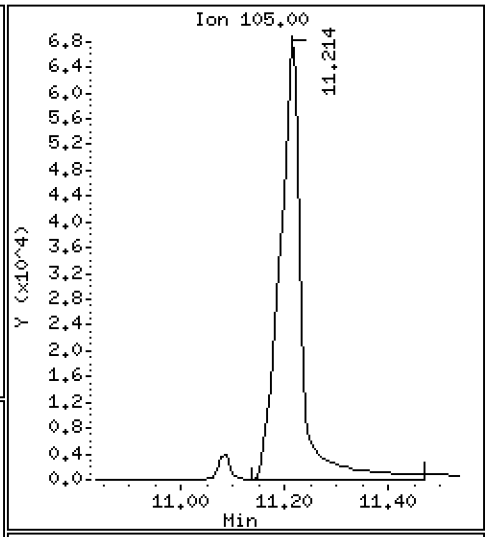
Concentration: 6.746 ug/L

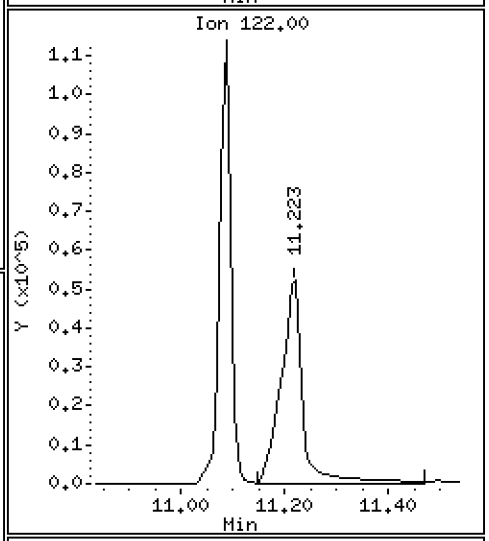


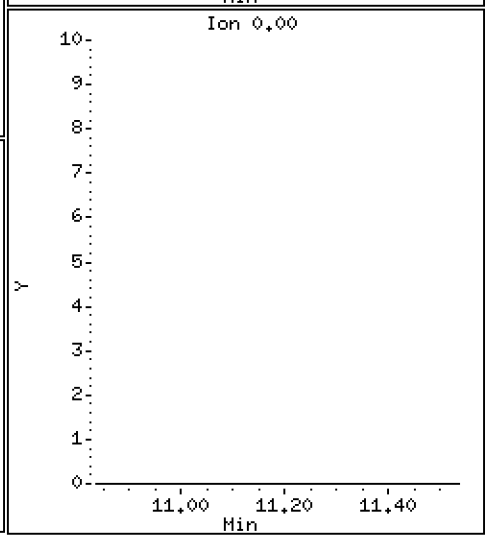












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

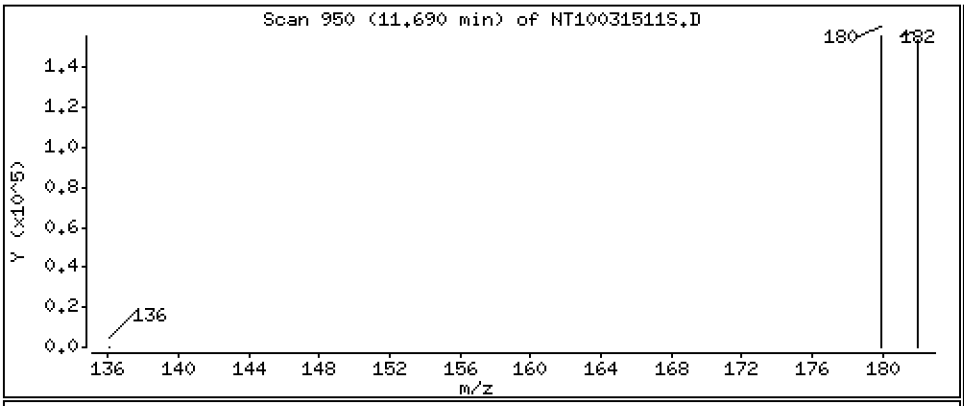
Operator: JGR

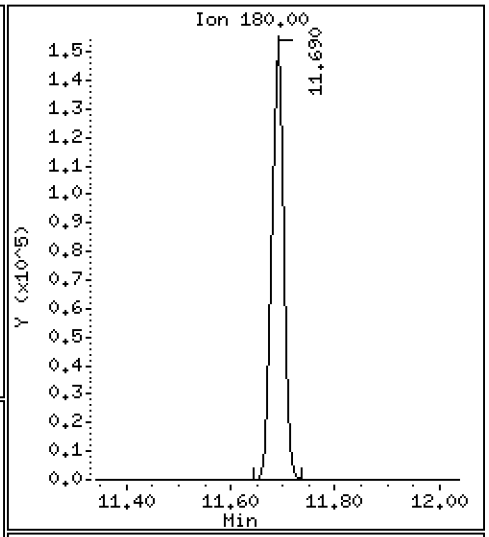
Column phase: ZB-5msi

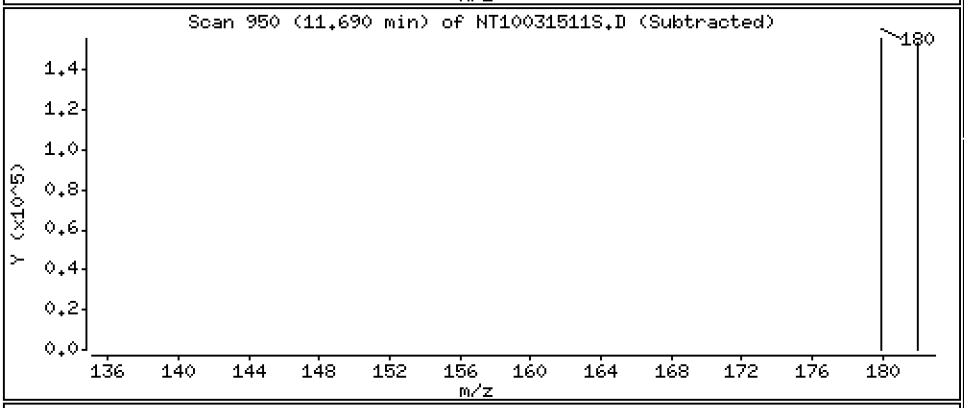
Column diameter: 0.25

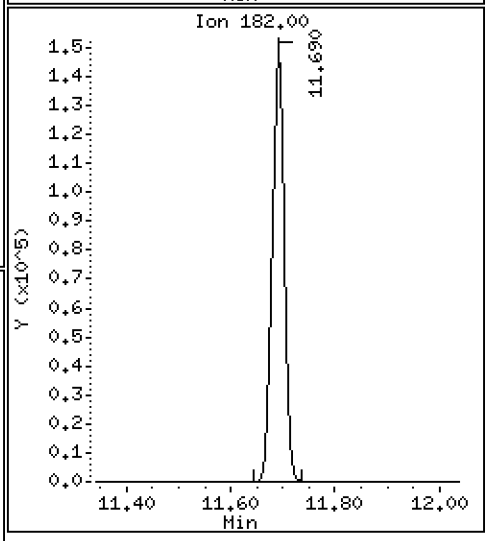
26 1,2,4-Trichlorobenzene

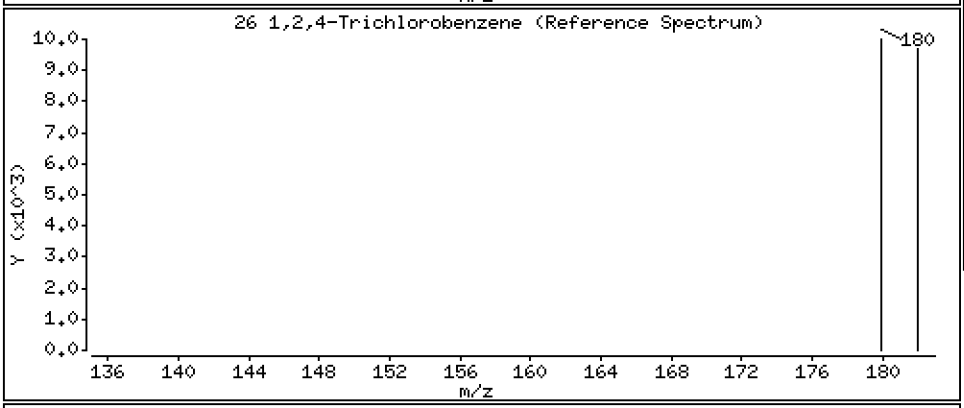
Concentration: 4.445 ug/L

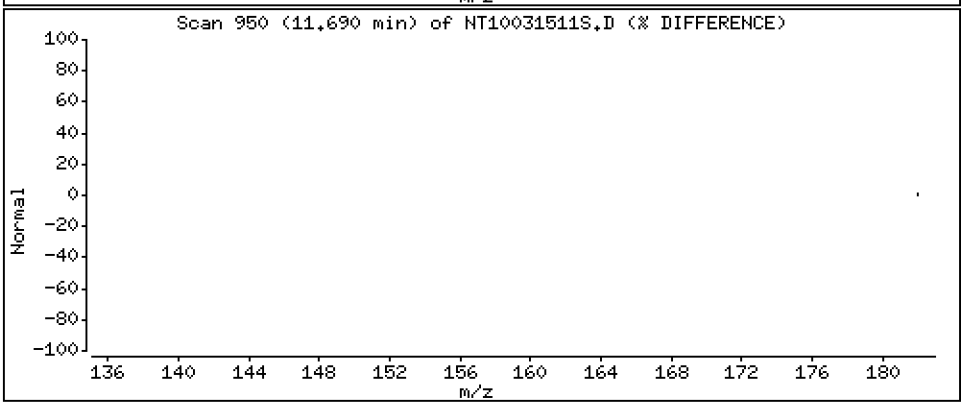












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

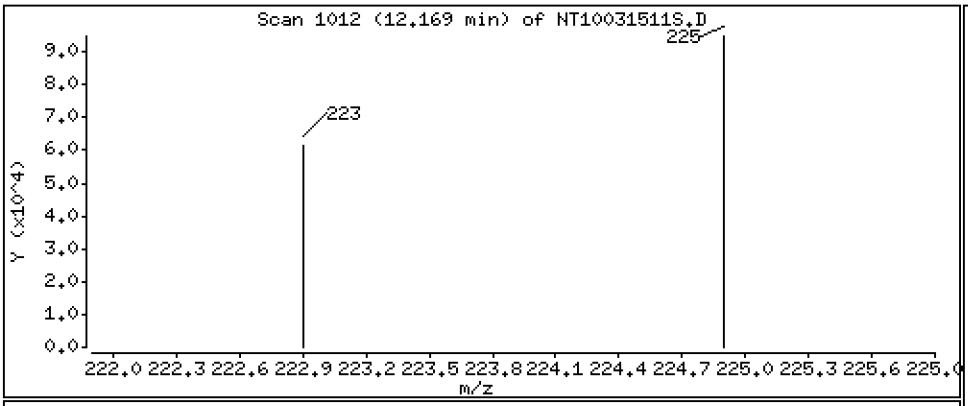
Operator: JGR

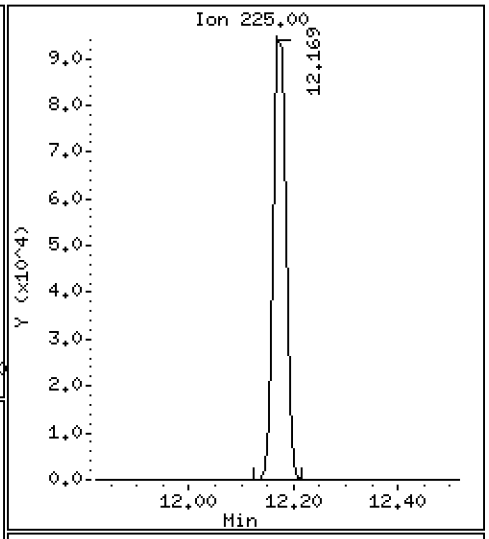
Column phase: ZB-5msi

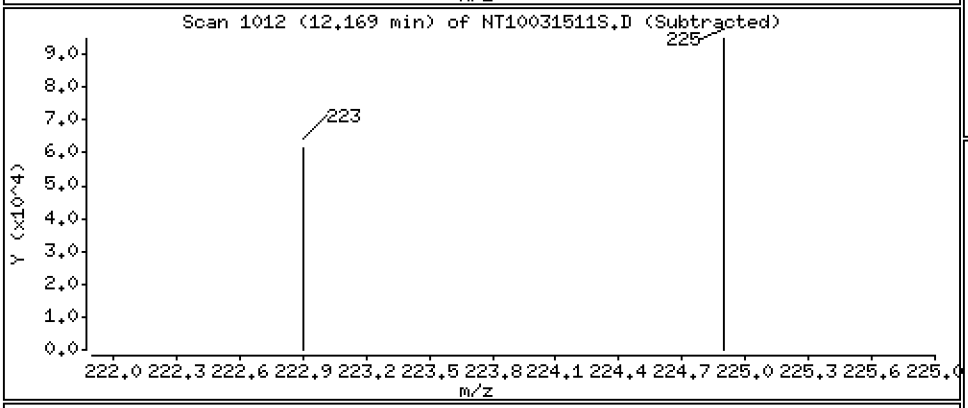
Column diameter: 0.25

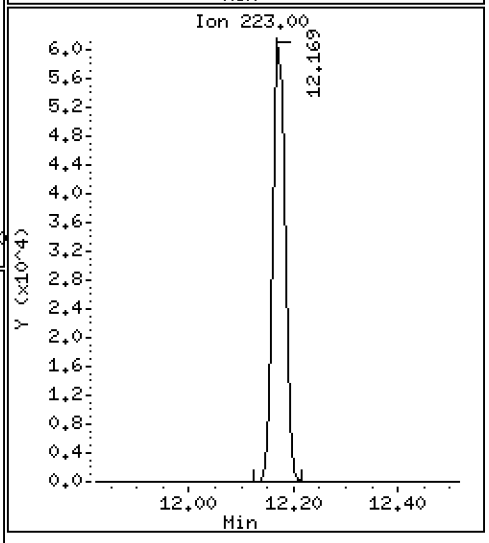
30 Hexachlorobutadiene

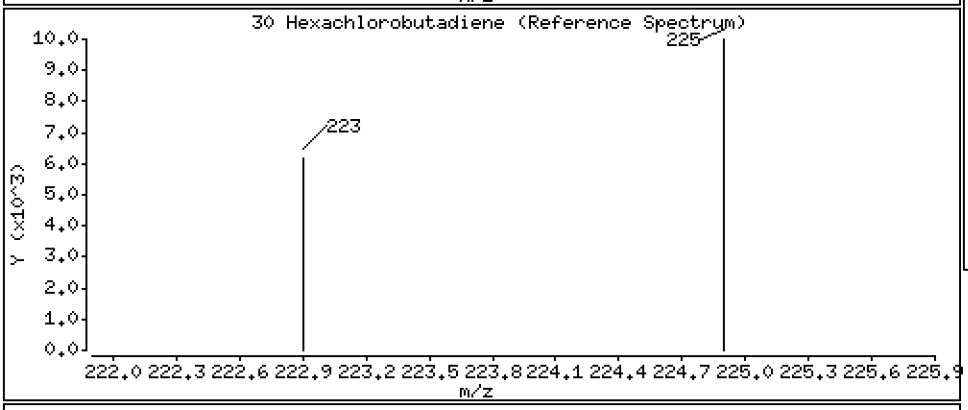
Concentration: 4.653 ug/L

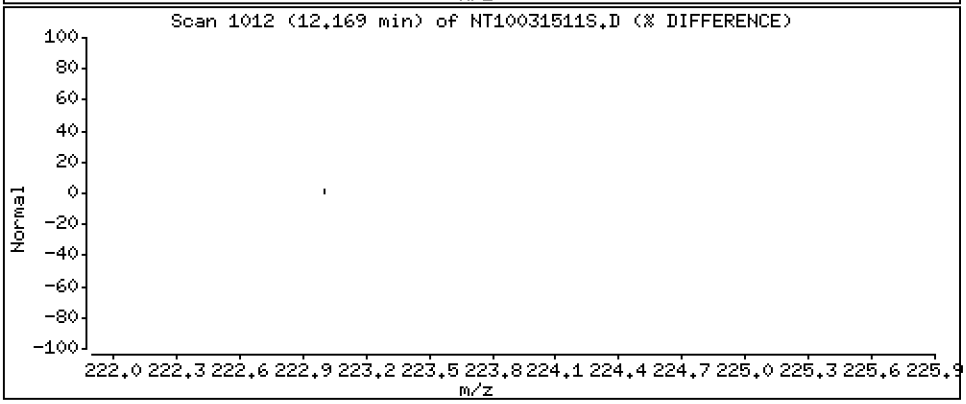












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

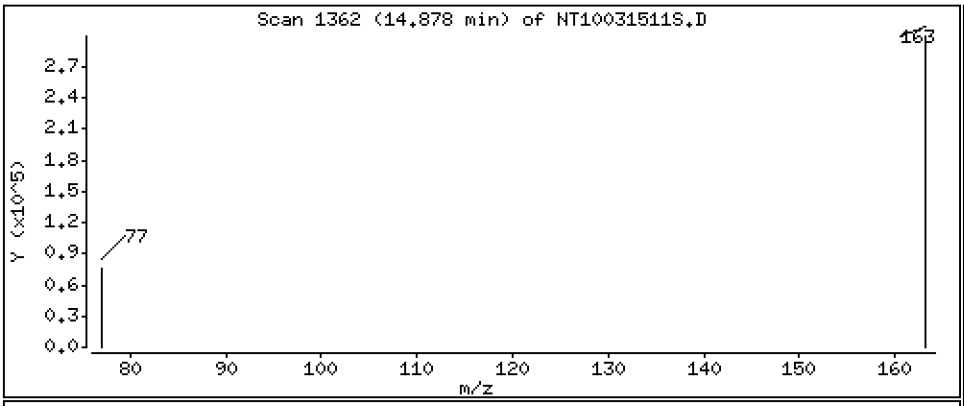
Operator: JGR

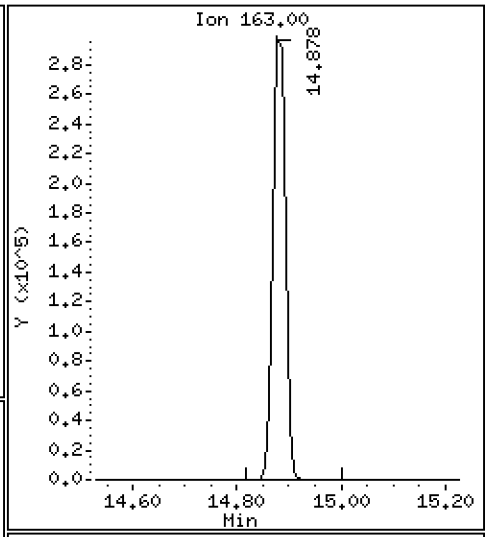
Column phase: ZB-5msi

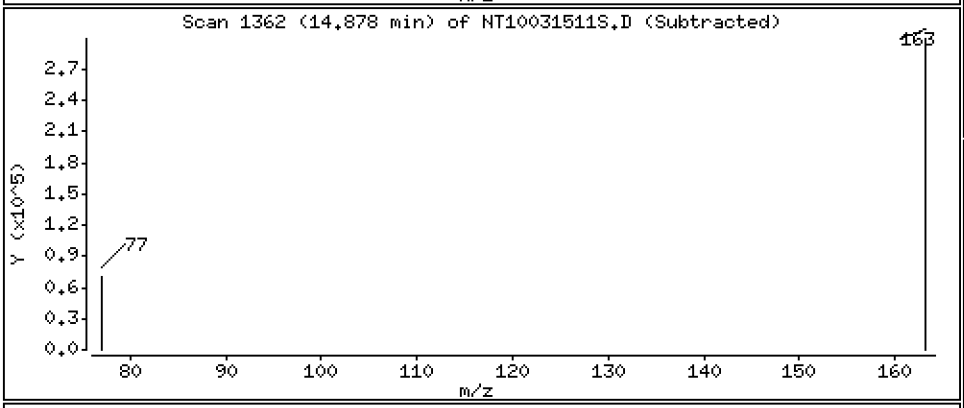
Column diameter: 0.25

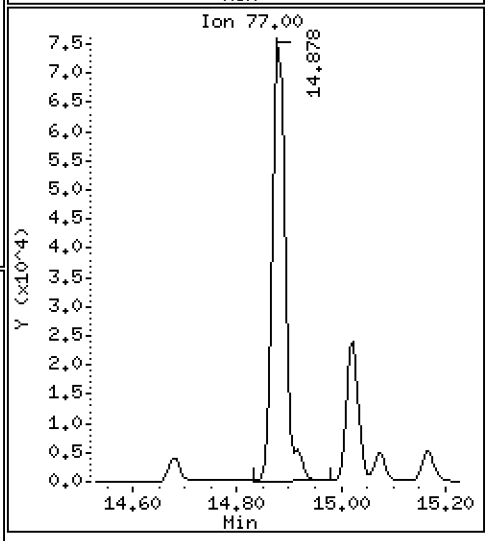
39 Dimethylphthalate

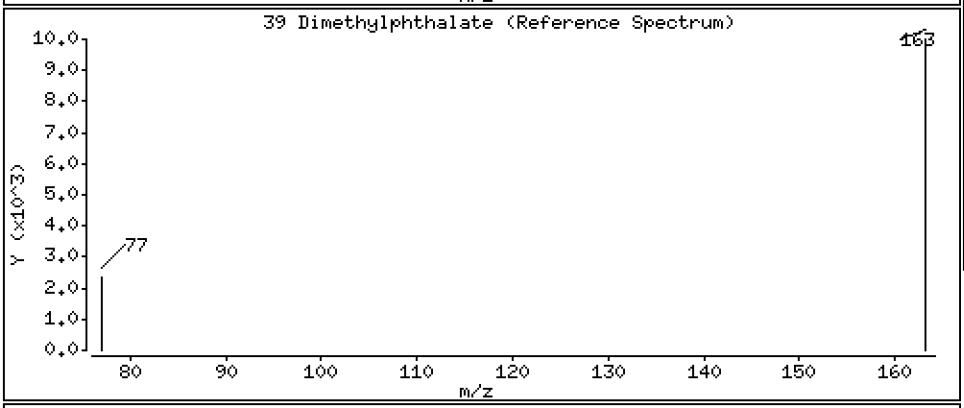
Concentration: 4.948 ug/L

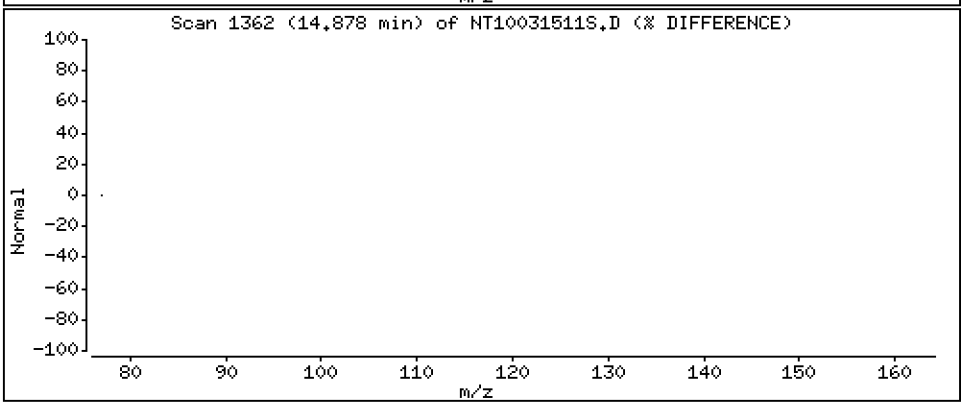












Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

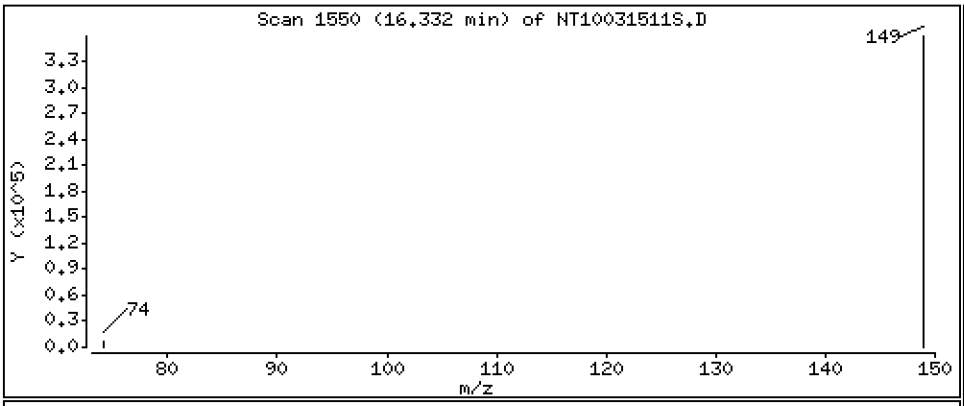
Operator: JGR

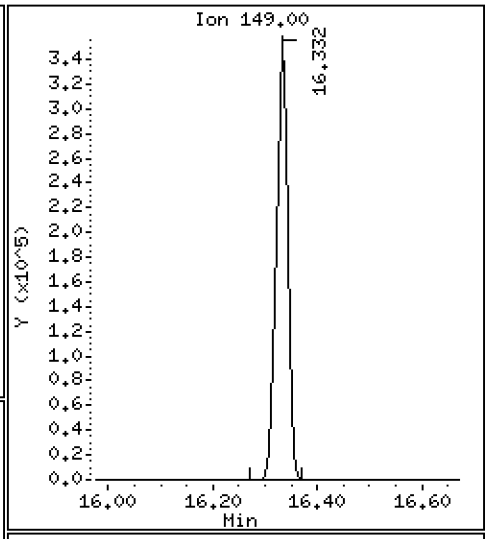
Column phase: ZB-5msi

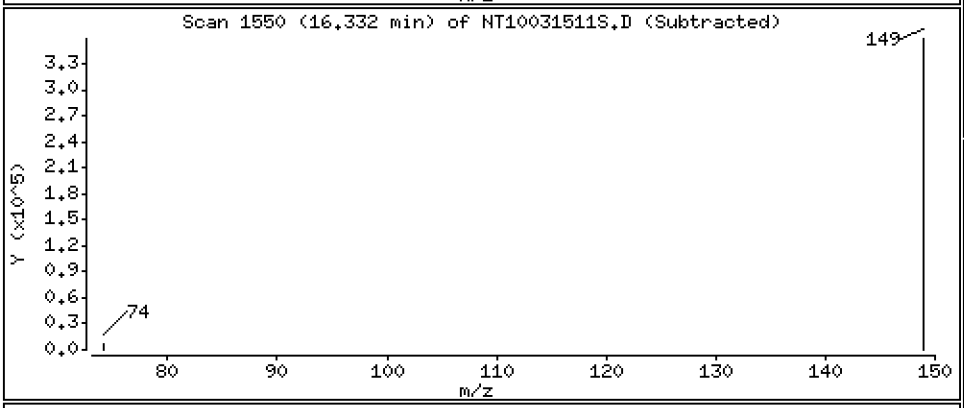
Column diameter: 0.25

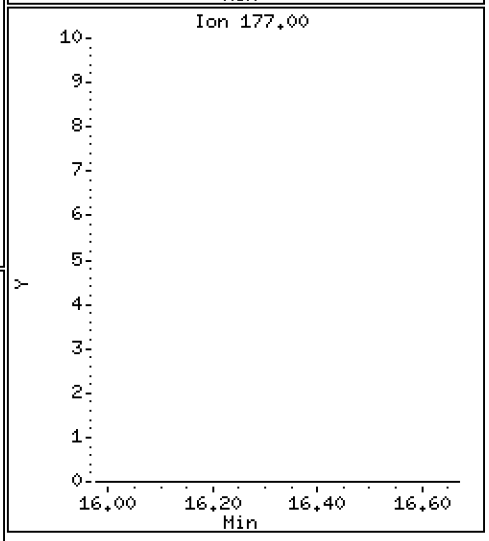
50 Diethylphthalate

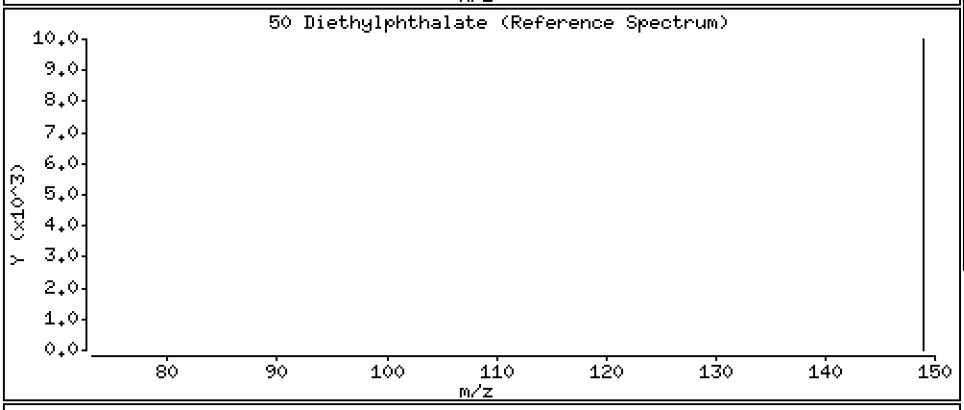
Concentration: 5.364 ug/L

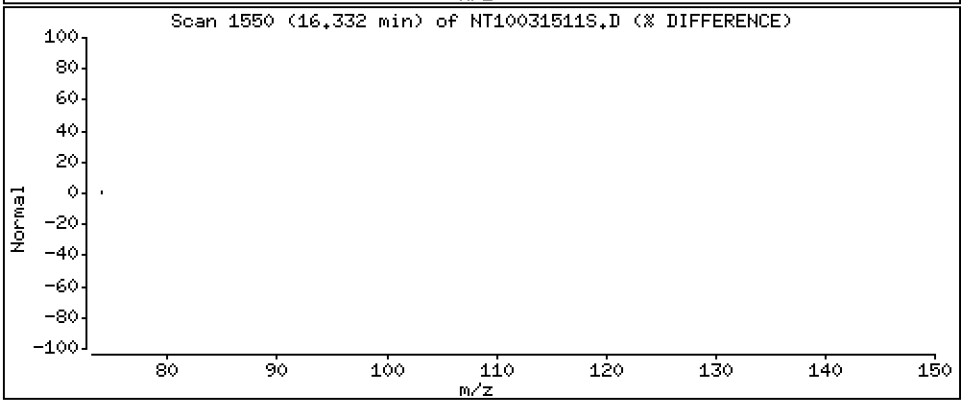












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

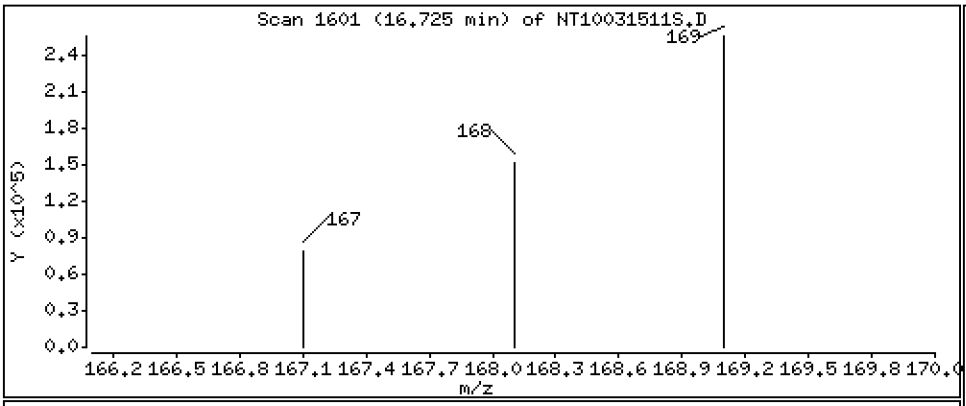
Operator: JGR

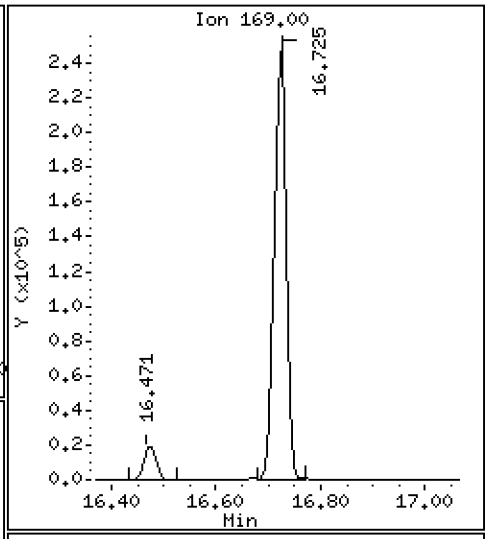
Column phase: ZB-5msi

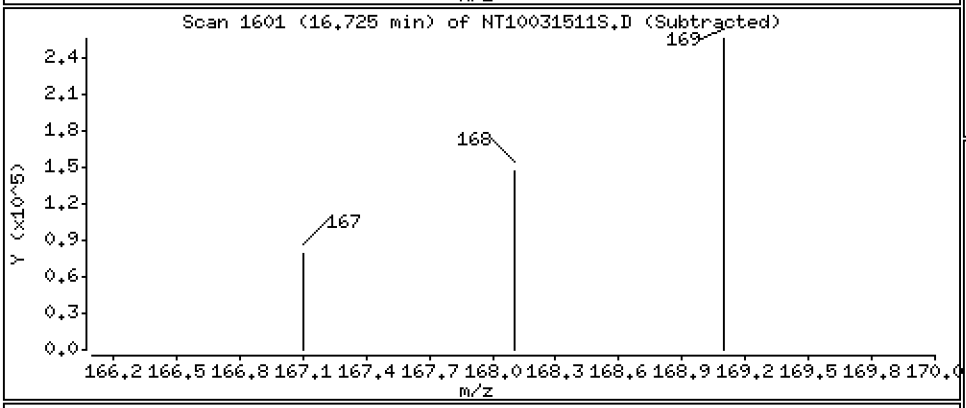
Column diameter: 0.25

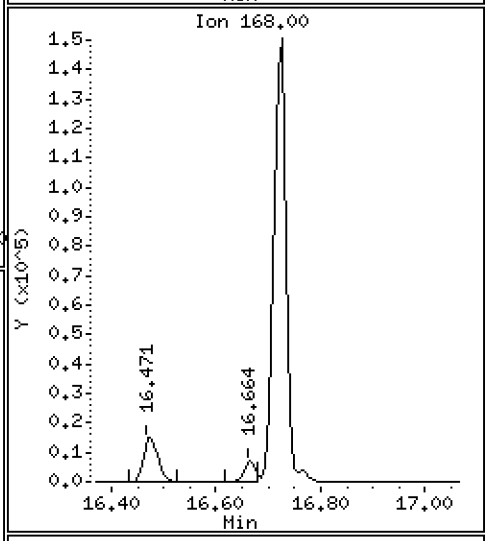
54 N-Nitrosodiphenylamine

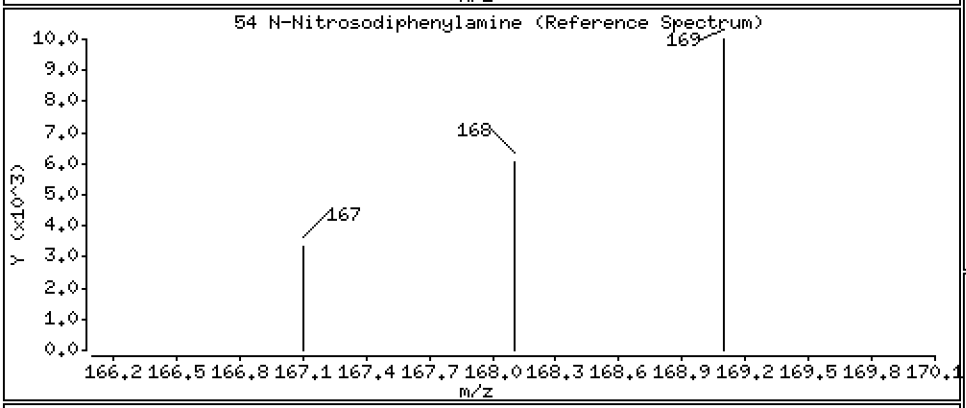
Concentration: 5.080 ug/L

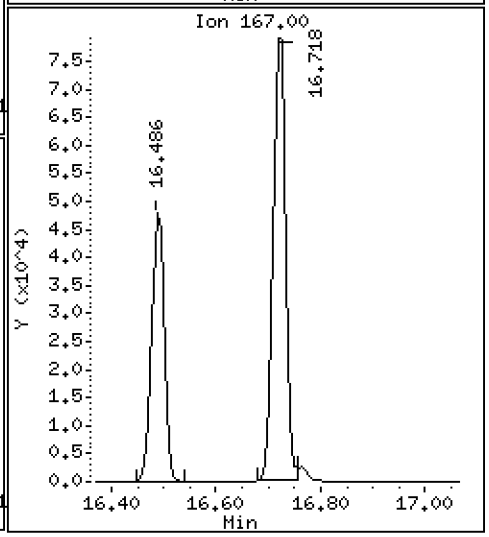


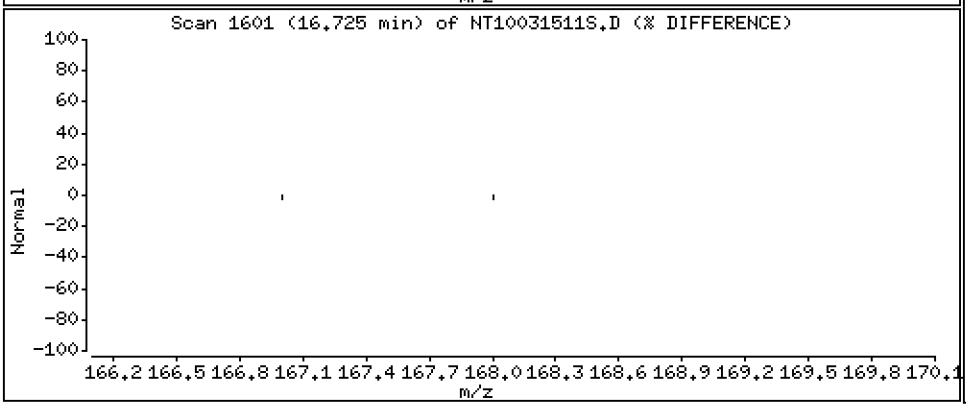












Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

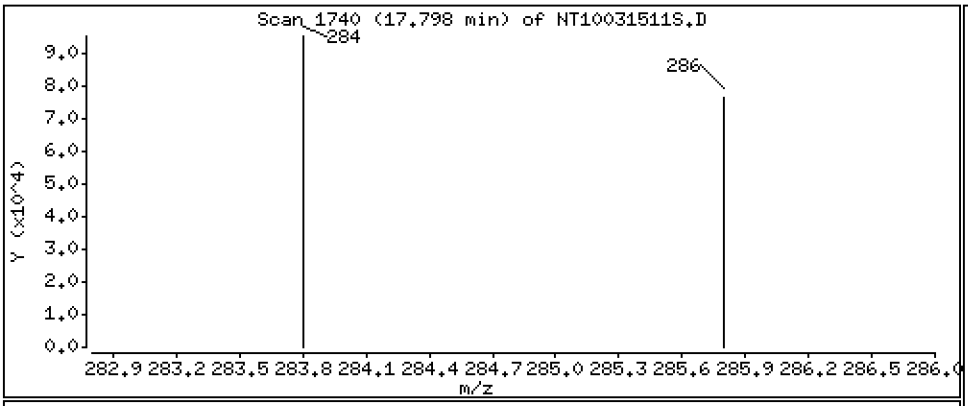
Operator: JGR

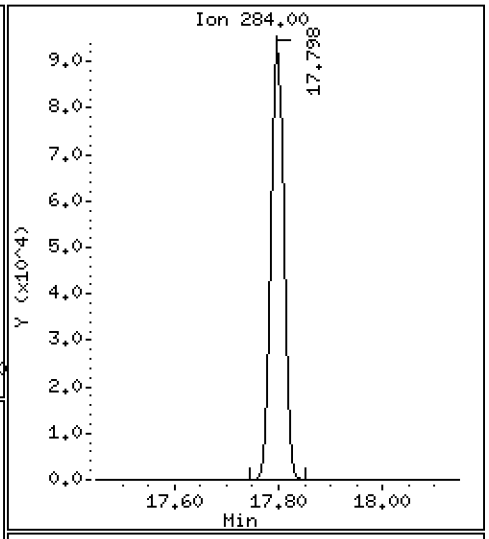
Column phase: ZB-5msi

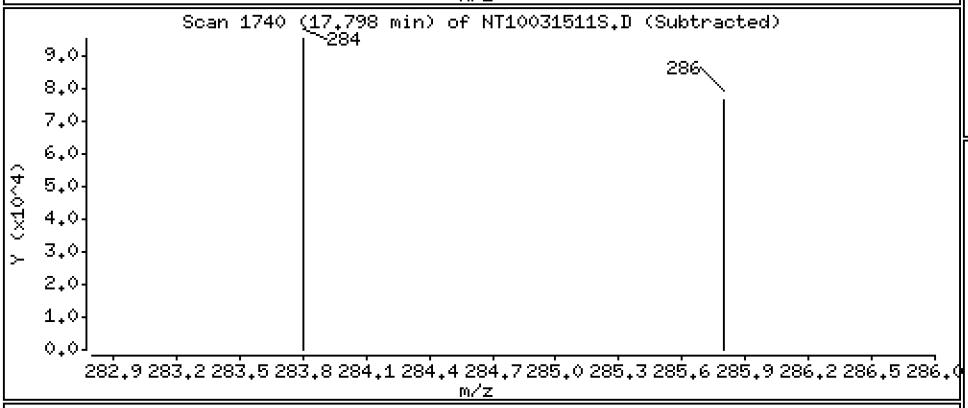
Column diameter: 0.25

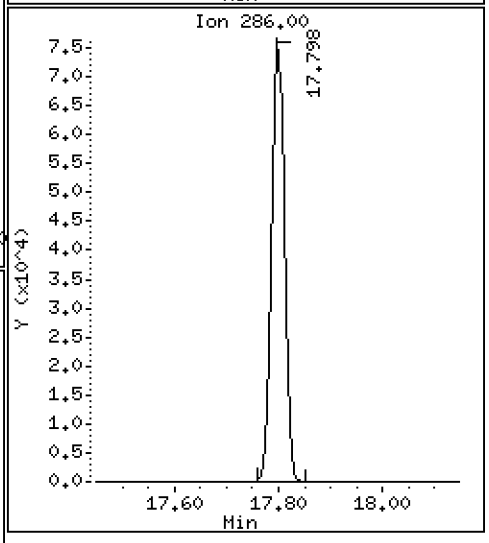
57 Hexachlorobenzene

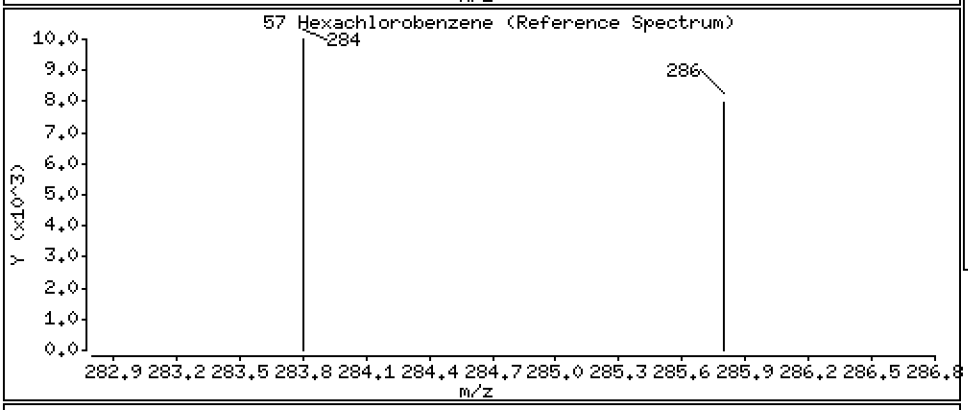
Concentration: 4.614 ug/L

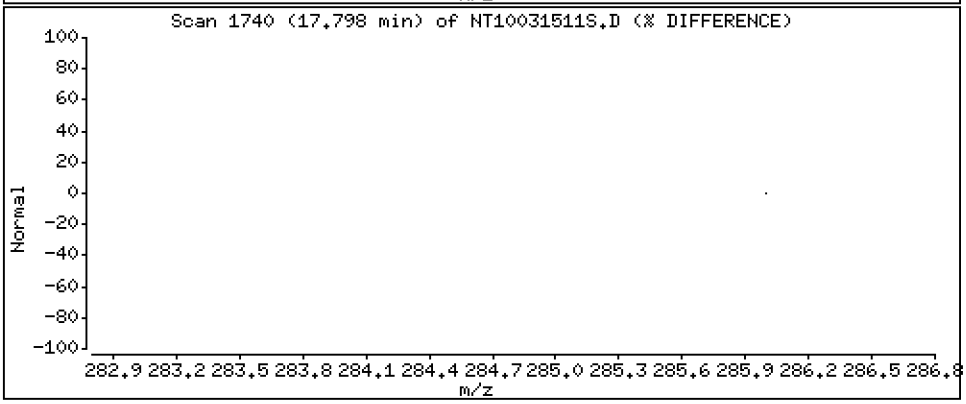












Data File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D

Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

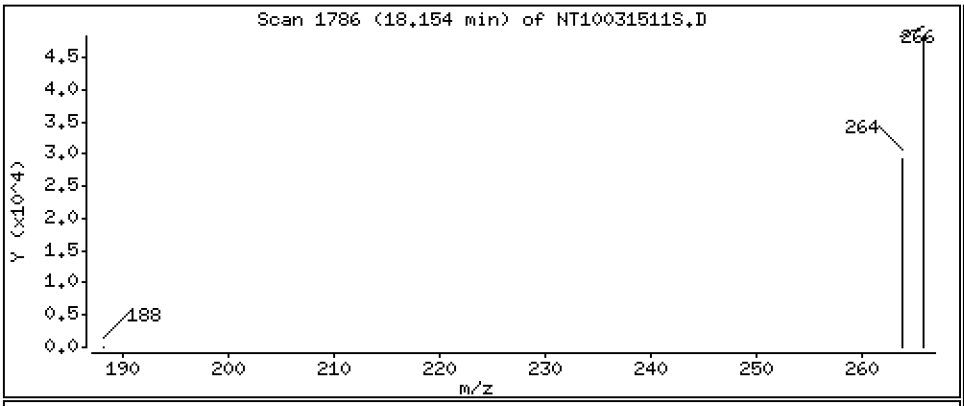
Operator: JGR

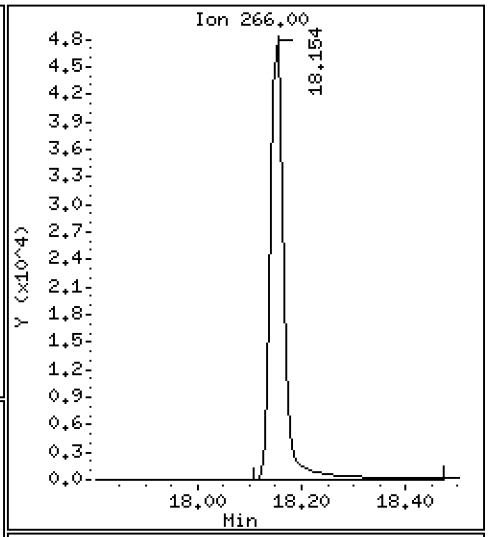
Column phase: ZB-5msi

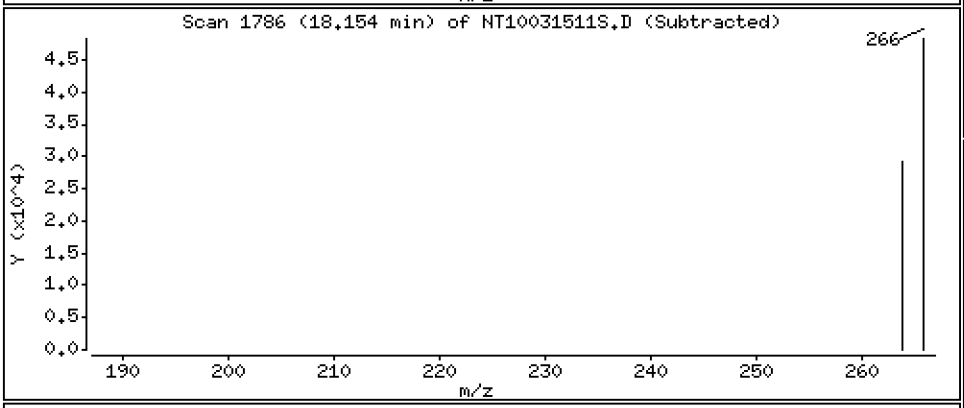
Column diameter: 0.25

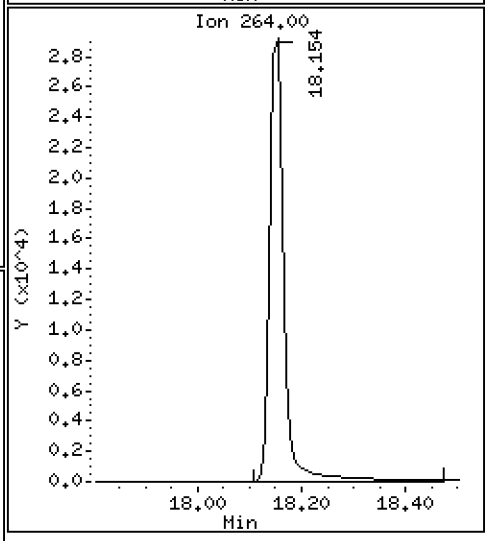
58 Pentachlorophenol

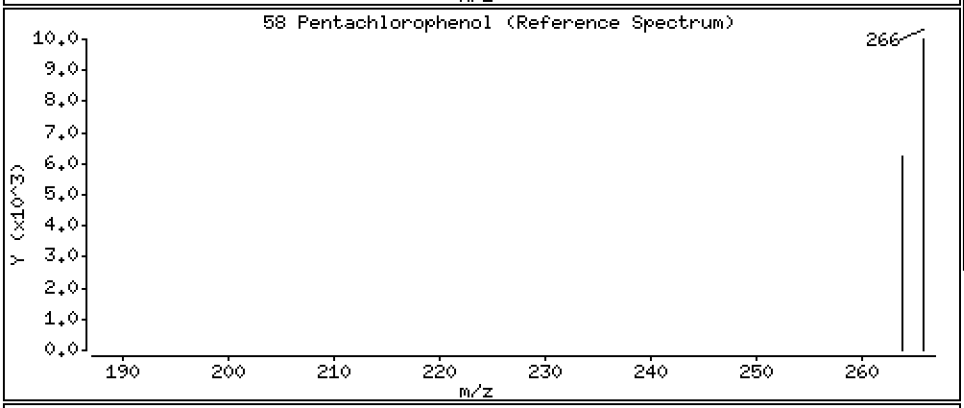
Concentration: 4.418 ug/L

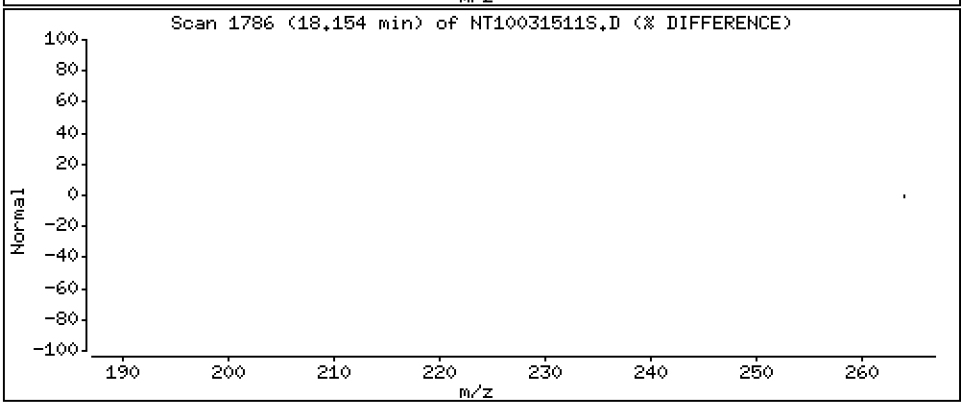












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

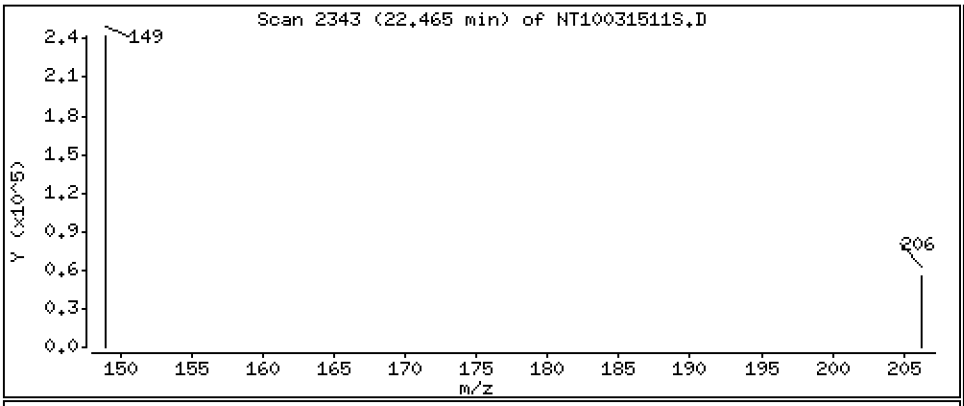
Operator: JGR

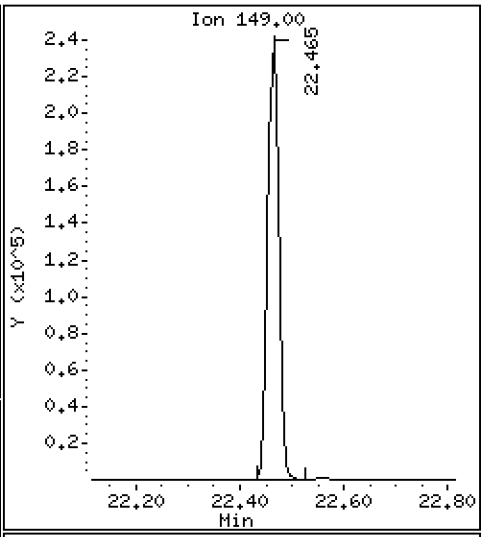
Column phase: ZB-5msi

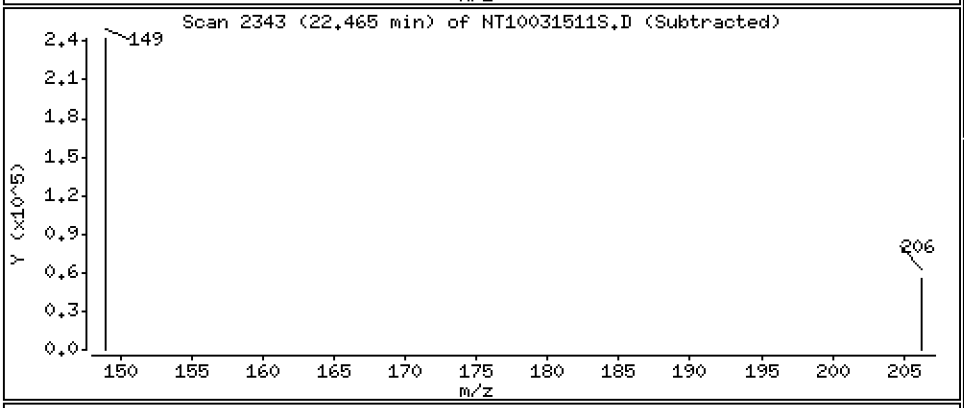
Column diameter: 0.25

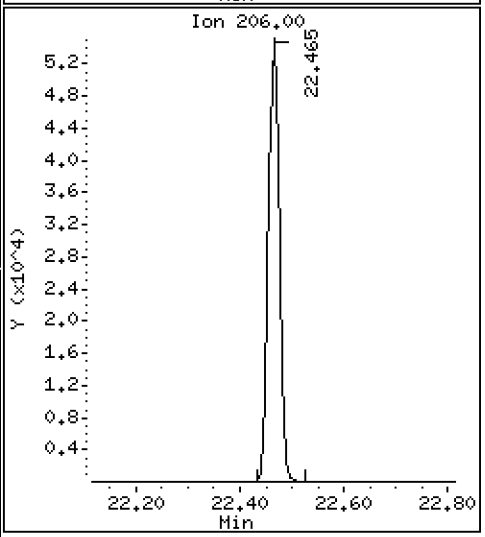
67 Butylbenzylphthalate

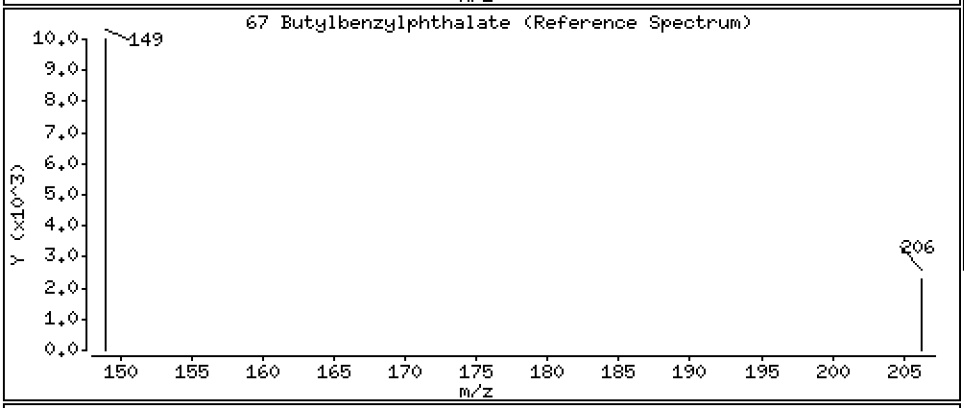
Concentration: 5.121 ug/L

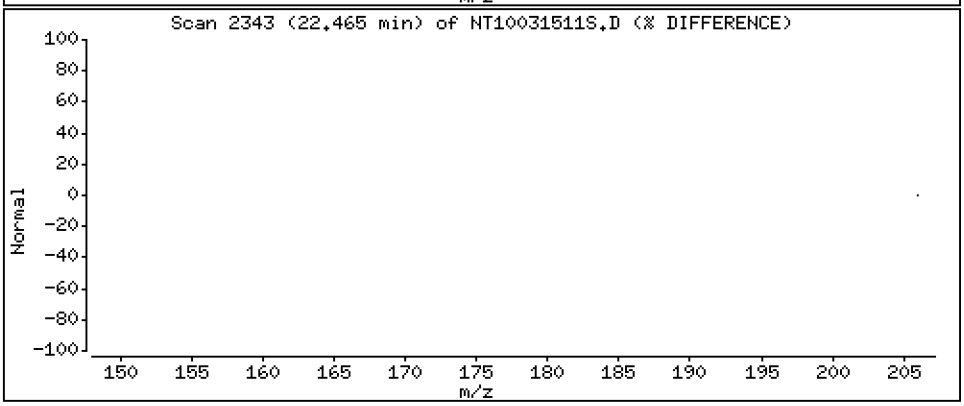












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

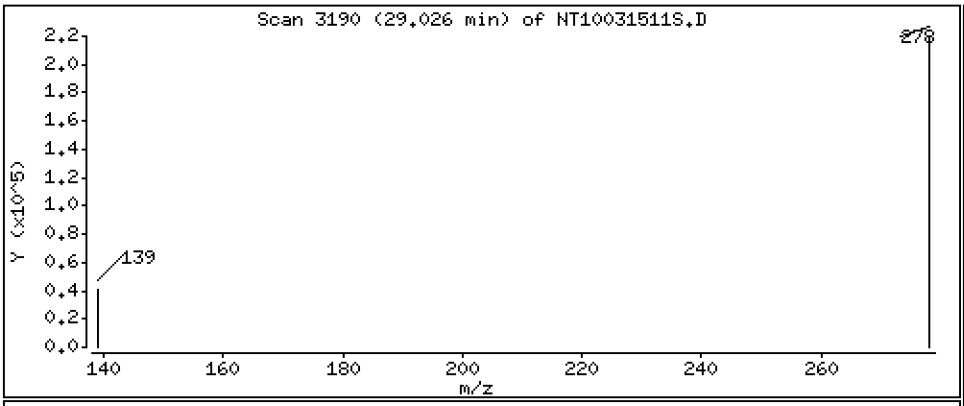
Operator: JGR

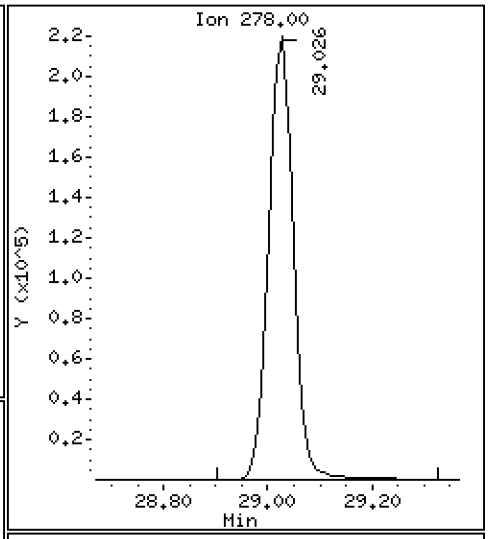
Column phase: ZB-5msi

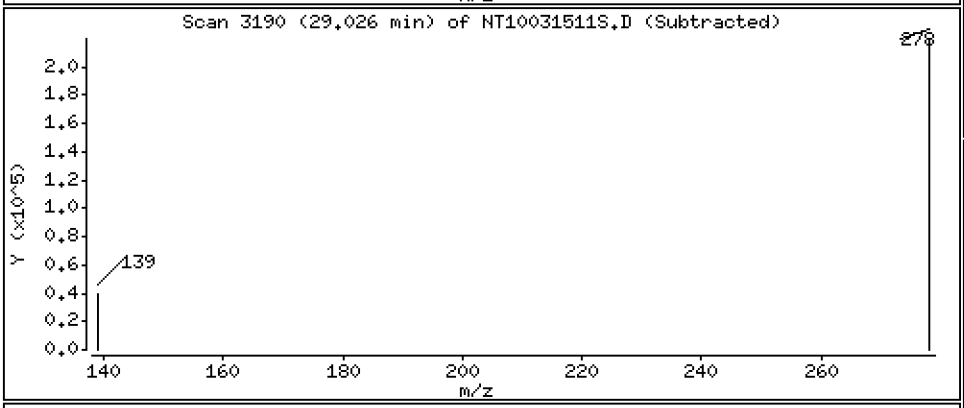
Column diameter: 0.25

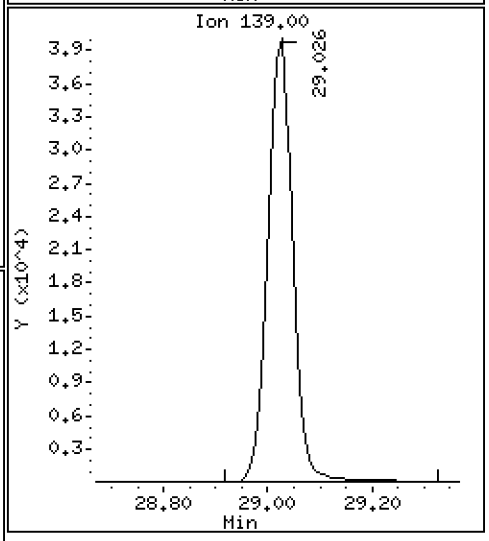
79 Dibenzo(a,h)anthracene

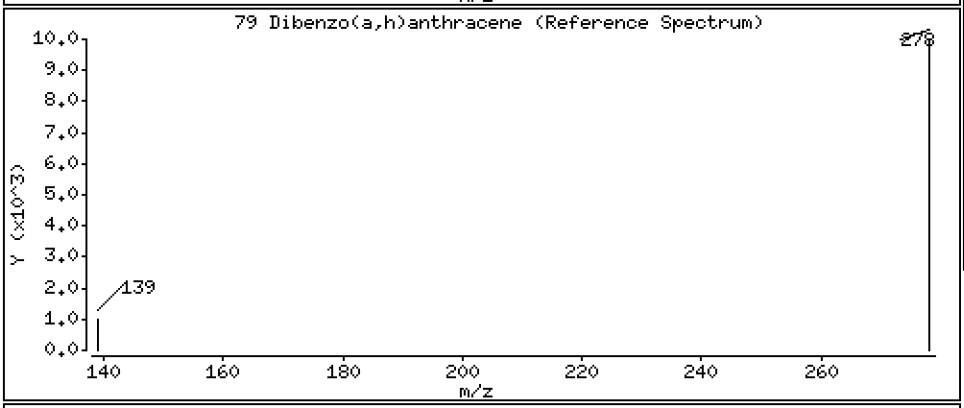
Concentration: 4.238 ug/L

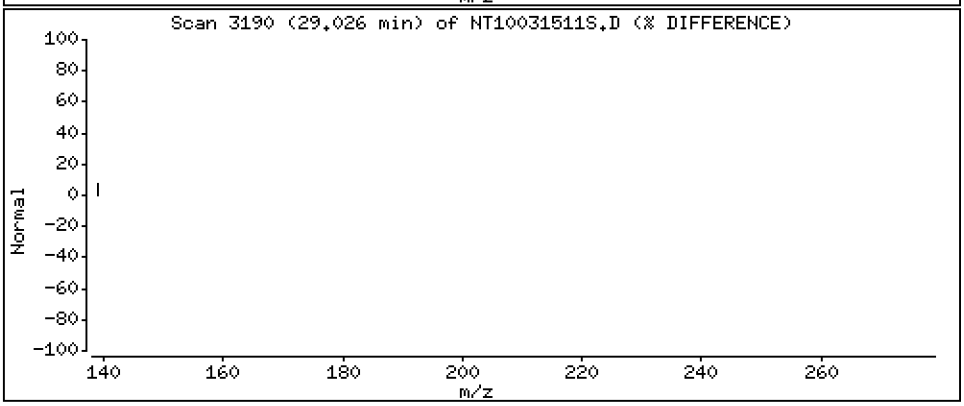












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Date : 16-MAR-2023 02:16

Client ID:

Instrument: nt10.i

Sample Info: SLC0238-SCV1

Volume Injected (uL): 1.0

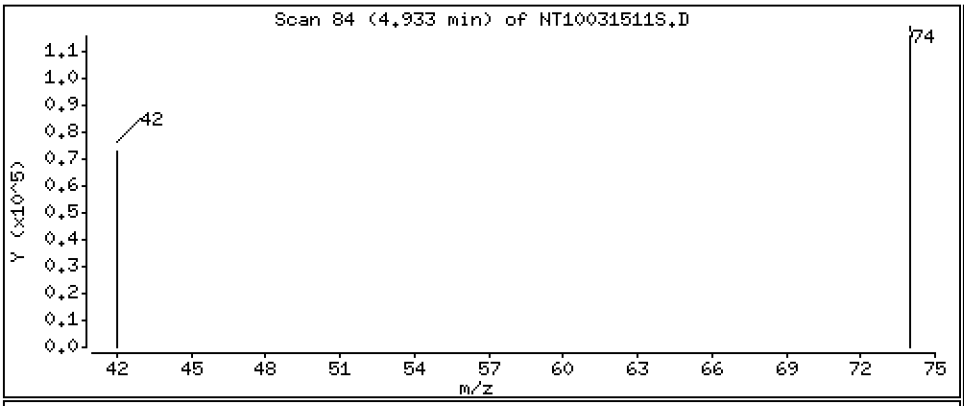
Operator: JGR

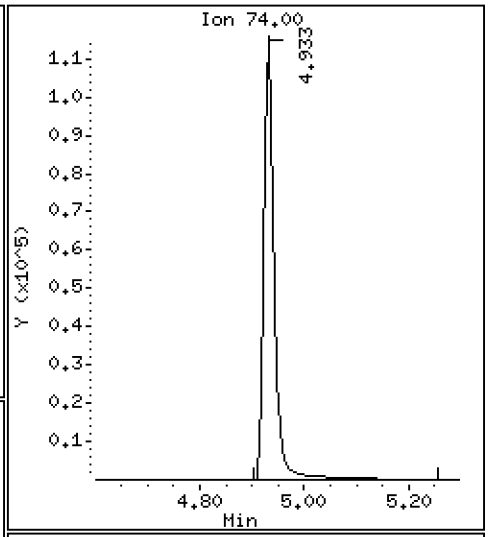
Column phase: ZB-5msi

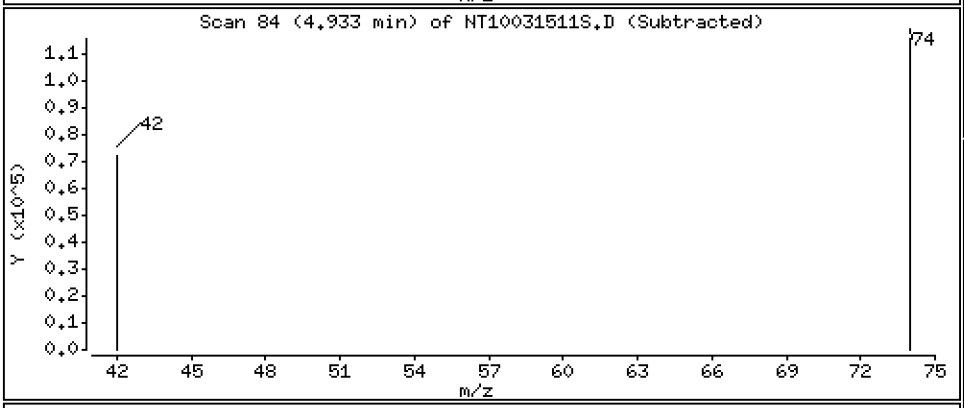
Column diameter: 0.25

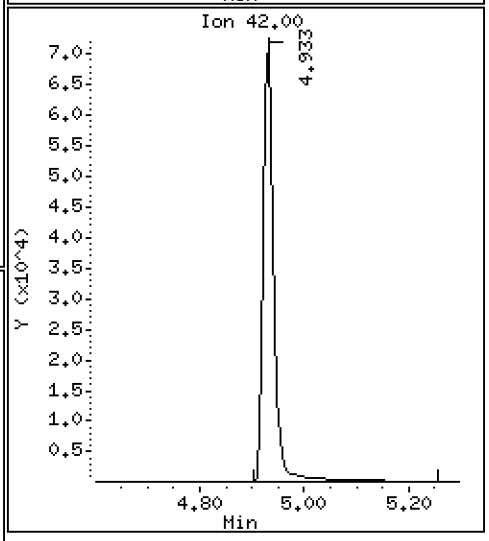
90 N-Nitrosodimethylamine

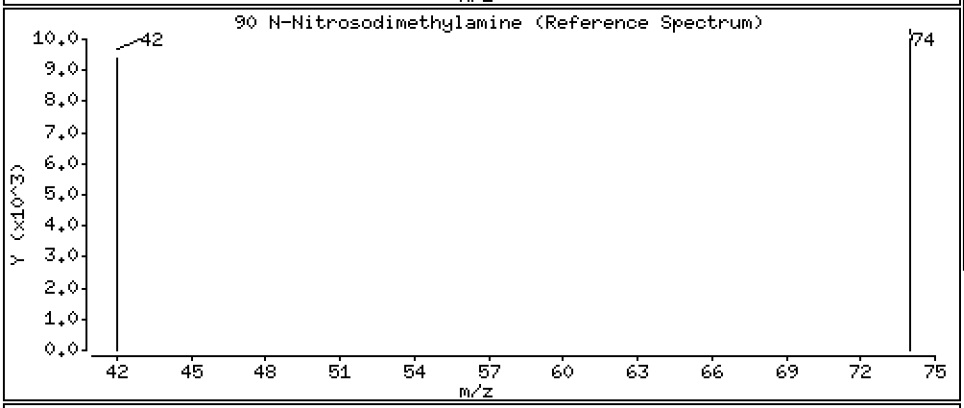
Concentration: 5.096 ug/L

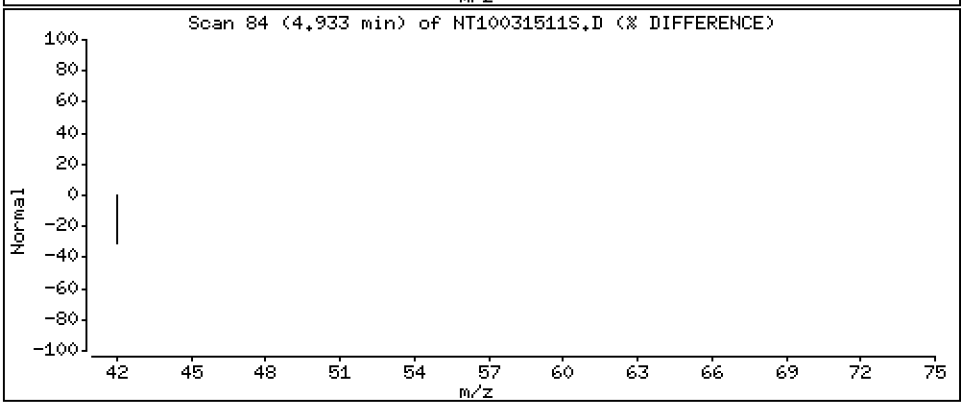












ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230315.b\20230315.b\NT10031511S.D
Lab Smp Id: SLC0238-SCV1
Inj Date : 16-MAR-2023 02:16 MS Autotune Date: 16-JAN-2023 17:42
Operator : JGR Inst ID: nt10.i
Smp Info : SLC0238-SCV1
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Meth Date : 16-Mar-2023 14:39 van Quant Type: ISTD
Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
$ 1	2-Fluorophenol	112	Compound Not Detected.					
3	Phenol	94	8.664	8.664	(0.931)	303581	4.37299	4.373
7	1,3-Dichlorobenzene	146	9.236	9.236	(0.992)	301605	4.64290	4.643
* 8	1,4-Dichlorobenzene-d4	152	9.306	9.298	(1.000)	166866	4.00000	
9	1,4-Dichlorobenzene	146	9.329	9.329	(1.002)	303390	4.83813	4.838
11	Benzyl alcohol	79	9.562	9.570	(1.028)	208505	5.18071	5.181
12	1,2-Dichlorobenzene	146	9.686	9.686	(1.041)	288539	4.67875	4.679
13	2-Methylphenol	108	9.772	9.772	(1.050)	201888	4.19698	4.197
15	4-Methylphenol	108	10.043	10.036	(1.079)	223083	4.46301	4.463
16	N-Nitroso-di-n-propylamine	70	10.121	10.113	(1.088)	186707	5.28174	5.282
22	2,4-Dimethylphenol	107	11.086	11.087	(0.942)	193654	3.66015	3.660
24	Benzoic acid	105	11.214	11.189	(0.952)	200487	6.74612	6.746
26	1,2,4-Trichlorobenzene	180	11.690	11.690	(0.993)	236605	4.44540	4.445
* 27	Naphthalene-d8	136	11.775	11.775	(1.000)	612104	4.00000	
30	Hexachlorobutadiene	225	12.169	12.169	(1.033)	150581	4.65339	4.653
39	Dimethylphthalate	163	14.877	14.877	(0.967)	472341	4.94766	4.948
* 42	Acenaphthene-d10	162	15.388	15.380	(1.000)	302524	4.00000	
50	Diethylphthalate	149	16.331	16.324	(1.061)	530540	5.36440	5.364
54	N-Nitrosodiphenylamine	169	16.725	16.717	(0.908)	377357	5.08034	5.080
57	Hexachlorobenzene	284	17.798	17.798	(0.966)	153405	4.61353	4.614

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	58 Pentachlorophenol	266	18.154	18.154	(0.985)	83223	4.41780	4.418
*	59 Phenanthrene-d10	188	18.425	18.417	(1.000)	553619	4.00000	
$	66 Terphenyl-d14	244	21.543	21.543	(0.918)	117	0.00154	0.001543(RM)
	67 Butylbenzylphthalate	149	22.464	22.465	(0.958)	332887	5.12147	5.121
*	69 Chrysene-d12	240	23.455	23.455	(1.000)	465428	4.00000	
*	77 Perylene-d12	264	26.188	26.188	(1.000)	532593	4.00000	
	79 Dibenzo(a,h)anthracene	278	29.026	29.019	(1.108)	722983	4.23762	4.238
	90 N-Nitrosodimethylamine	74	4.933	4.948	(0.530)	163555	5.09625	5.096

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT10031511S.D
Lab Smp Id: SLC0238-SCV1
Analysis Type: SV
Quant Type: ISTD
Operator: JGR
Method File: \\target\share\chem3\nt10.i\20230315.b\20230315.b\SIMABN2.m
Misc Info:

Calibration Date: 15-MAR-2023
Calibration Time: 23:06
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	188081	94041	376162	166866	-11.28
27 Naphthalene-d8	674549	337275	1349098	612104	-9.26
42 Acenaphthene-d10	328275	164138	656550	302524	-7.84
59 Phenanthrene-d10	597140	298570	1194280	553619	-7.29
69 Chrysene-d12	466503	233252	933006	465428	-0.23
77 Perylene-d12	518203	259102	1036406	532593	2.78

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.30	8.80	9.80	9.31	0.08
27 Naphthalene-d8	11.77	11.27	12.27	11.78	0.01
42 Acenaphthene-d10	15.39	14.89	15.89	15.39	0.01
59 Phenanthrene-d10	18.42	17.92	18.92	18.43	0.00
69 Chrysene-d12	23.45	22.95	23.95	23.46	0.00
77 Perylene-d12	26.19	25.69	26.69	26.19	0.00

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

REVIEW SUMMARY FOR FILE - NT10031511S.D

Lab ID: SLC0238-SCV1
nt10.i, 20230315.b\20230315.b\SIMABN2.m,   16-MAR-2023 02:16

RT	CO-ELUTION COMPOUNDS
NO CO-ELUTIONS	

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.952	0.000	0.9524	Benzoic acid

RRT check based on Ccal File: 20230315.b/NT10031510S.D

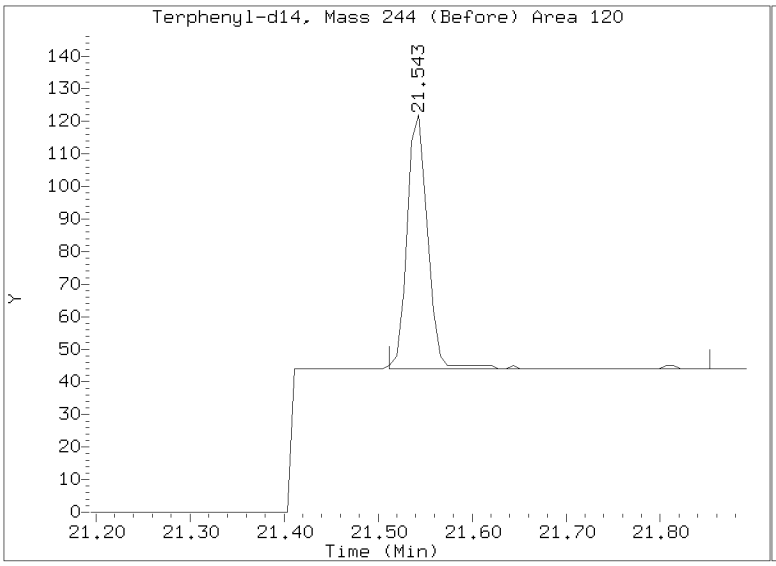
On Column LOD for nt10.i, 20230315.b\SIMABN2.m, PSDDA.sub = 0.0000

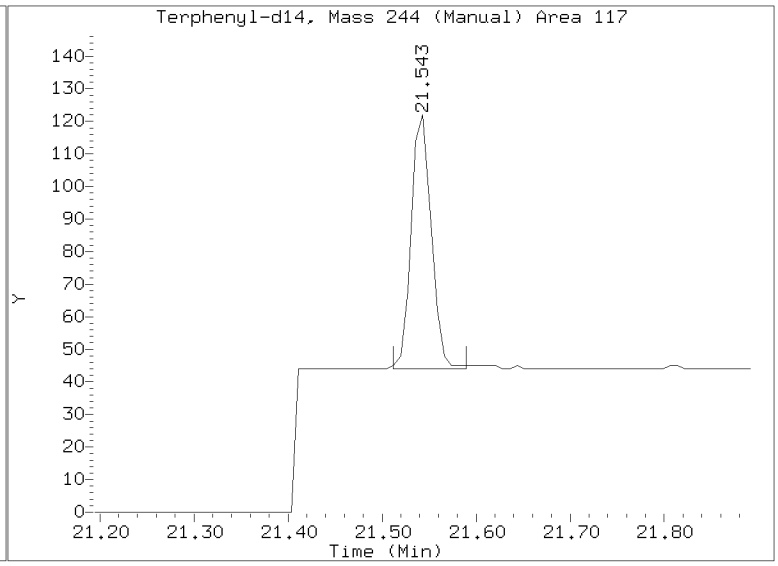
Exception: 1,2,4-Trichlorobenzene 0.0010

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

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230315.b/20230315.b/NT10031511S.D
Injection Date: 16-MAR-2023 02:16
Lab ID:SLC0238-SCV1 Client ID:
Report Date: 03/16/2023 14:49





Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	NT10	Calibration:	GC00049
Lab File ID:	NT1003212319S.D	Calibration Date:	03/15/2023
Sequence:	SLC0452	Injection Date:	03/22/23
Lab Sample ID:	SLC0452-CCV1	Injection Time:	04:41
Sequence Name:	ABN 1		

		CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
1,4-Dichlorobenzene	A	1.0000	1.0	1.5031980	1.5401970		2.5	+/-50
1,2-Dichlorobenzene	A	1.0000	1.0	1.4783140	1.5300850		3.5	+/-50
Benzyl Alcohol	A	1.0000	1.0	0.9647610	0.9389789		-2.7	+/-50
Benzoic acid	A	4.0000	4.5	0.1358970	0.2188329		13.7	+/-50
2,4-Dimethylphenol	A	2.0000	1.9	0.3457498	0.3327006		-3.8	+/-50
1,2,4-Trichlorobenzene	A	1.0000	1.1	0.3478148	0.3775768		8.6	+/-50
N-Nitrosodiphenylamine	A	1.0000	1.1	0.5366720	0.6036576		12.5	+/-50
Pentachlorophenol	A	2.0000	2.1	0.0934250	0.1422660		6.0	+/-50
2-Fluorophenol	A	1.5000	1.62	1.2129820	1.3136780		8.3	+/-50
p-Terphenyl-d14	A	1.0000	1.02	0.6517430	0.6651087		2.1	+/-50

* Values outside of QC limits

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT10032123198.D

Date : 22-MAR-2023 04:41

Client ID:

Instrument: nt10.i

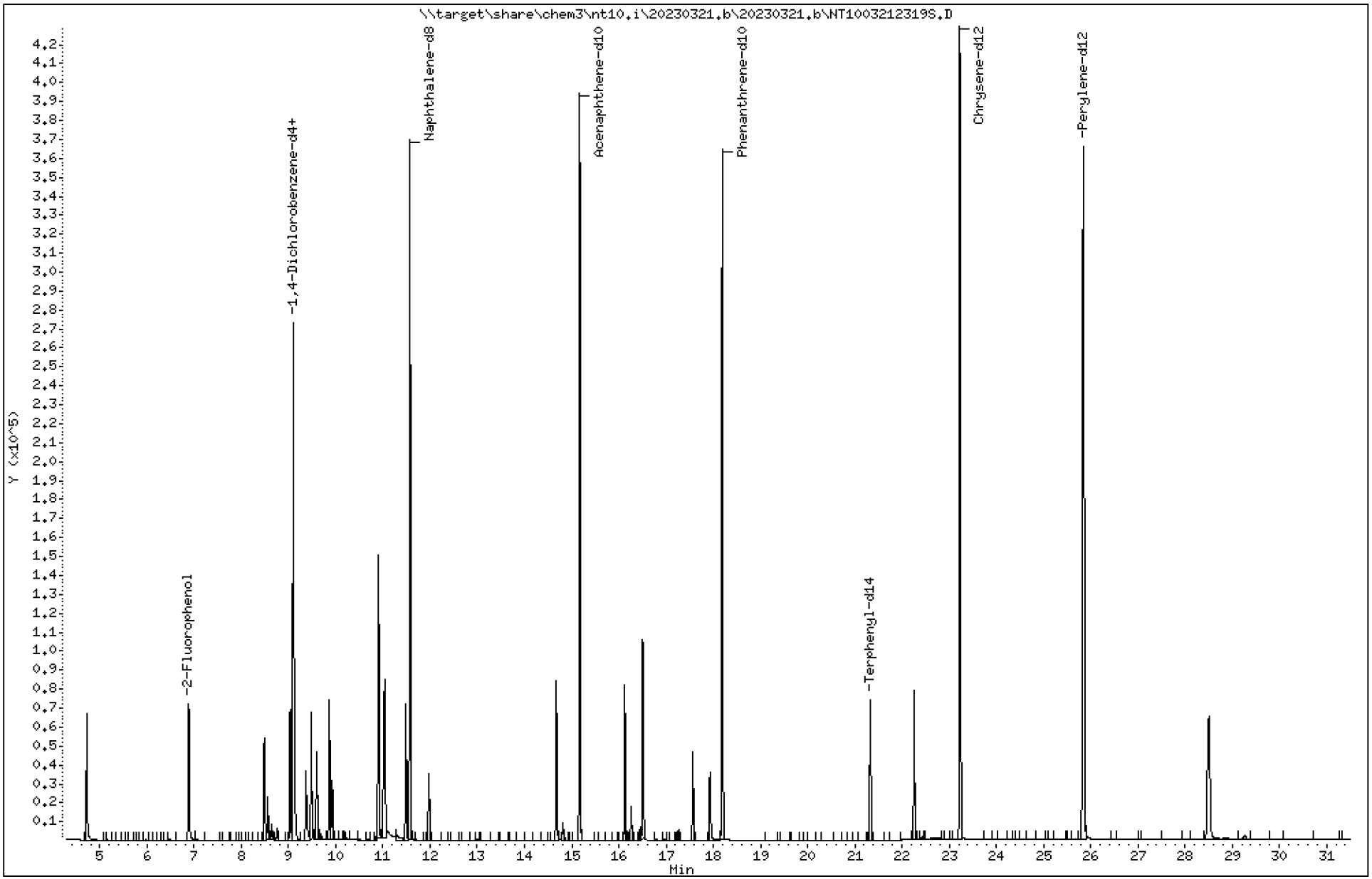
Sample Info: SLC0452-CCV1

Volume Injected (uL): 1.0

Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25



Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT10032123195.D

Date : 22-MAR-2023 04:41

Client ID:

Instrument: nt10.i

Sample Info: SLC0452-CCV1

Volume Injected (uL): 1.0

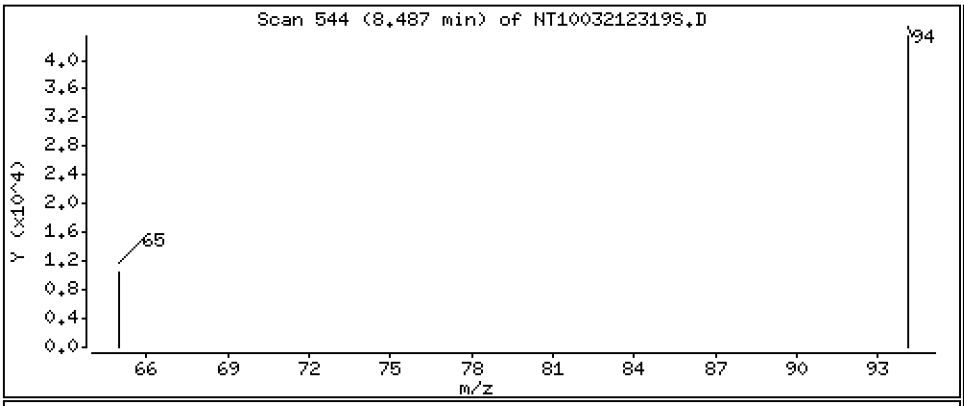
Operator: JGR

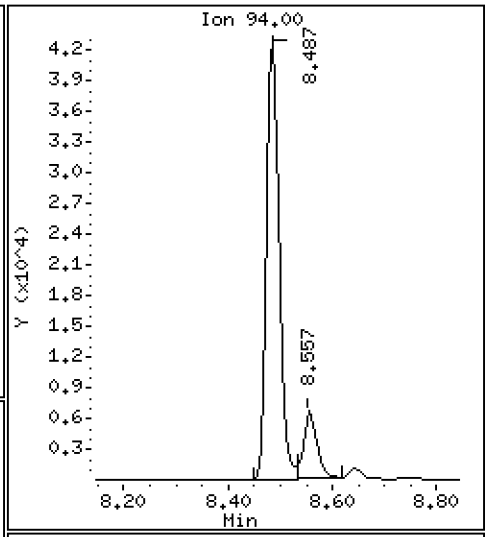
Column phase: ZB-5msi

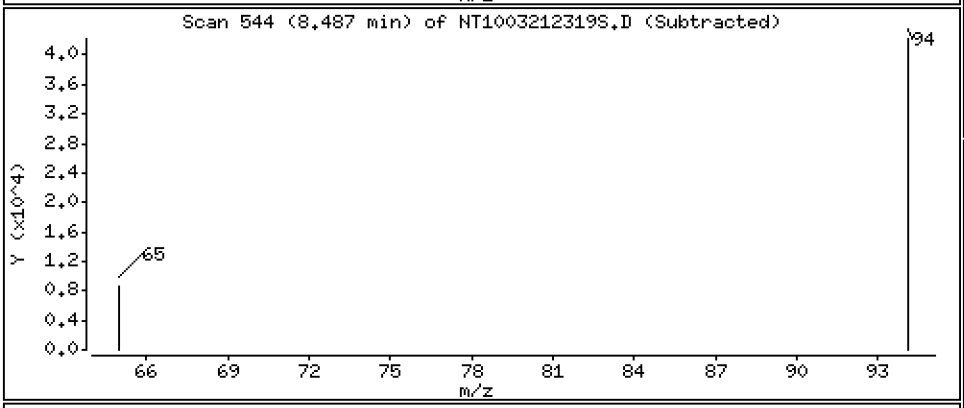
Column diameter: 0.25

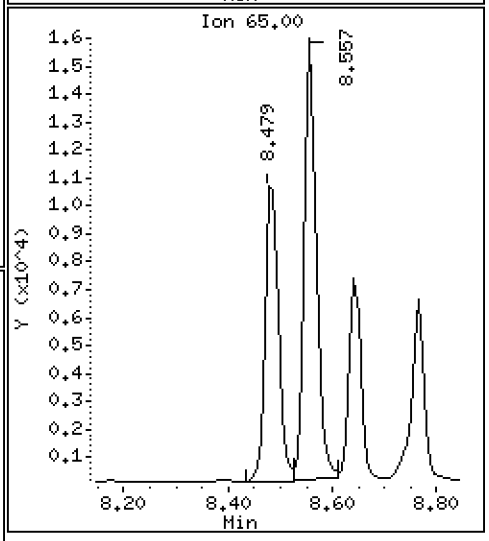
3 Phenol

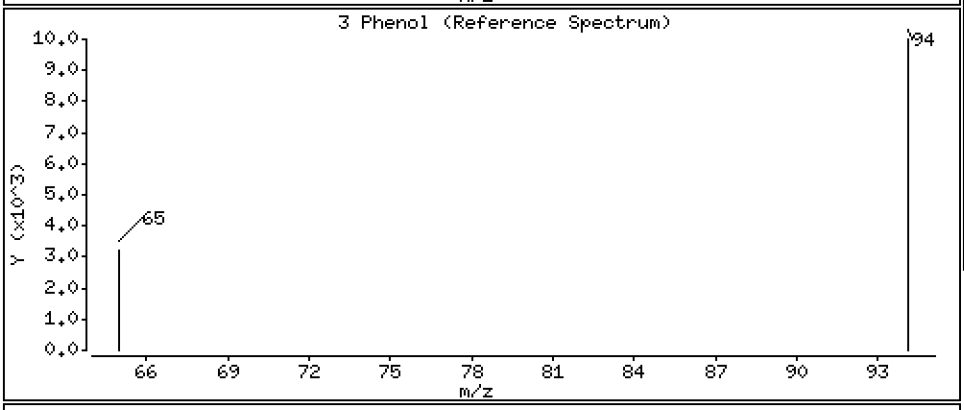
Concentration: 1.002 ug/L

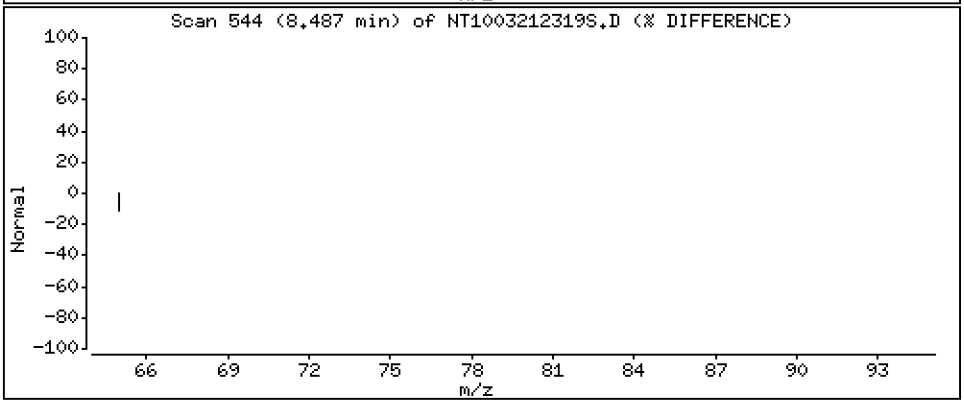












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT10032123195.D

Date : 22-MAR-2023 04:41

Client ID:

Instrument: nt10.i

Sample Info: SLC0452-CCV1

Volume Injected (uL): 1.0

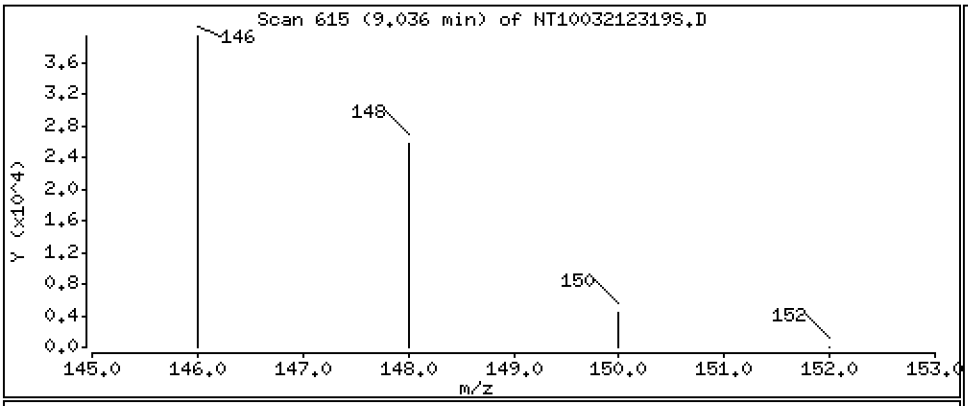
Operator: JGR

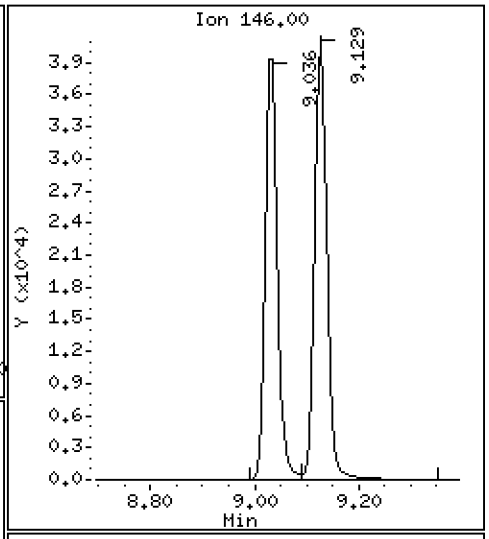
Column phase: ZB-5msi

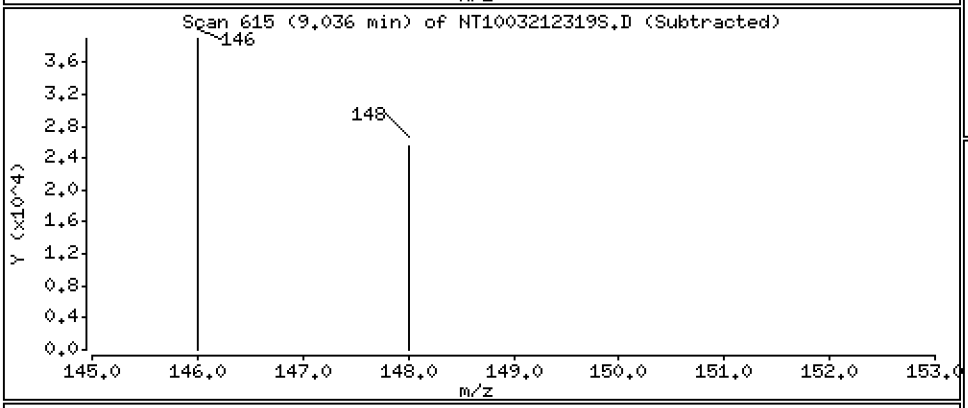
Column diameter: 0.25

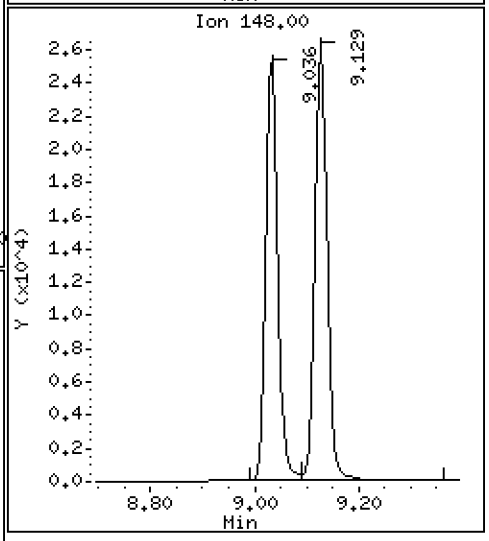
7 1,3-Dichlorobenzene

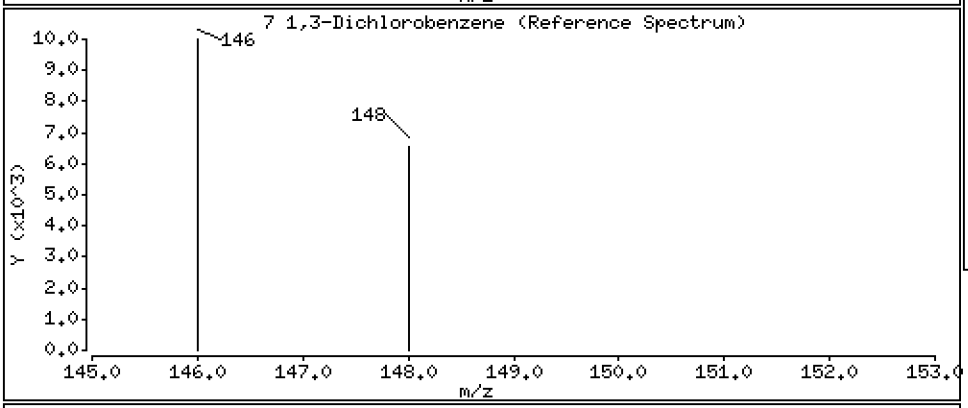
Concentration: 1.030 ug/L

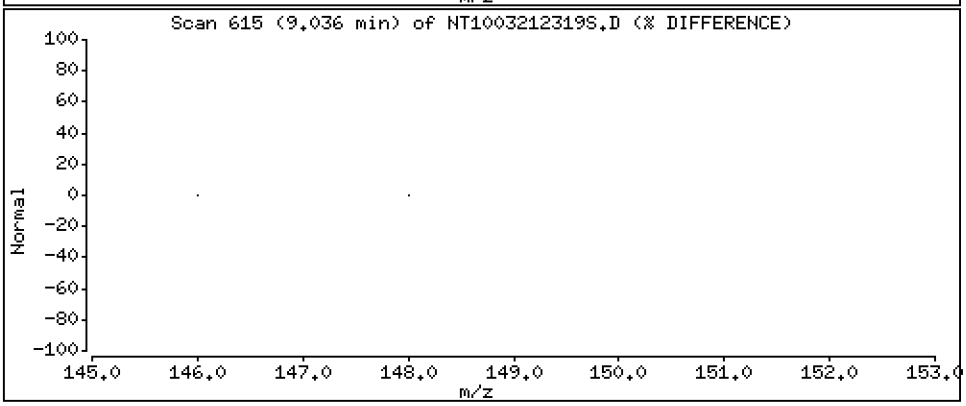












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT10032123195.D

Date : 22-MAR-2023 04:41

Client ID:

Instrument: nt10.i

Sample Info: SLC0452-CCV1

Volume Injected (uL): 1.0

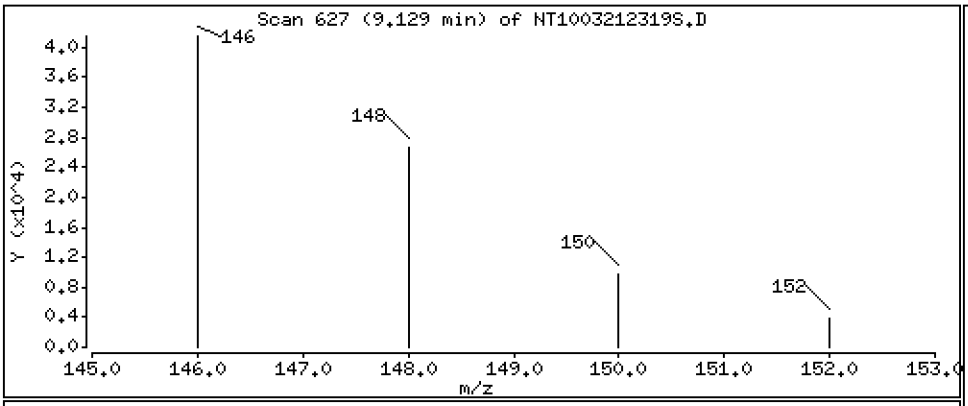
Operator: JGR

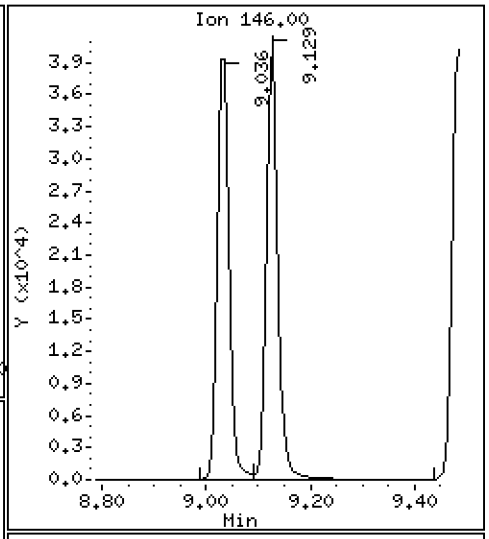
Column phase: ZB-5msi

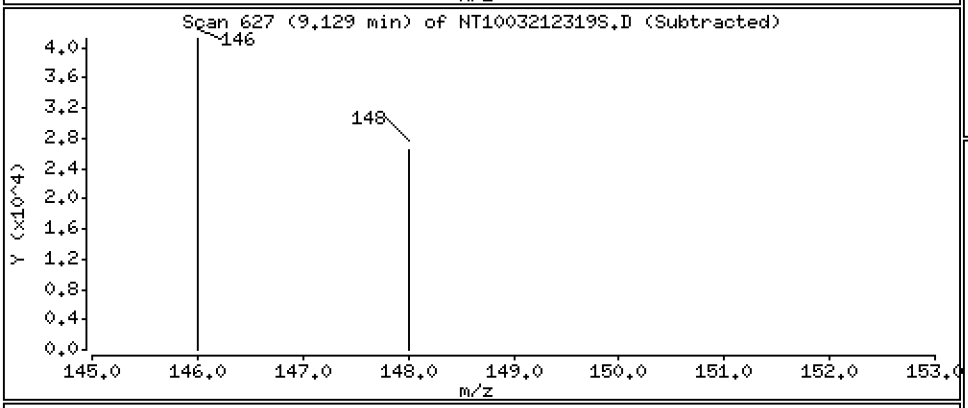
Column diameter: 0.25

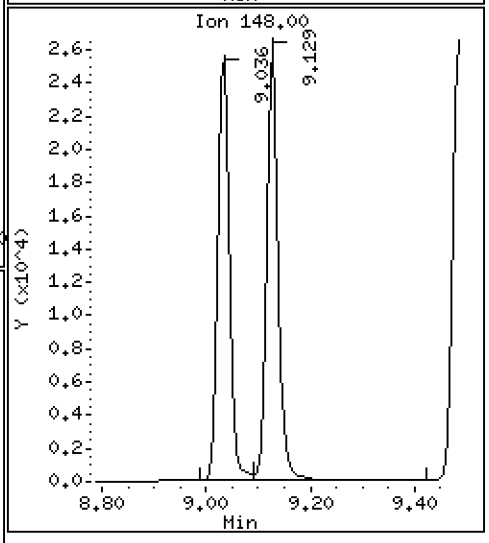
9 1,4-Dichlorobenzene

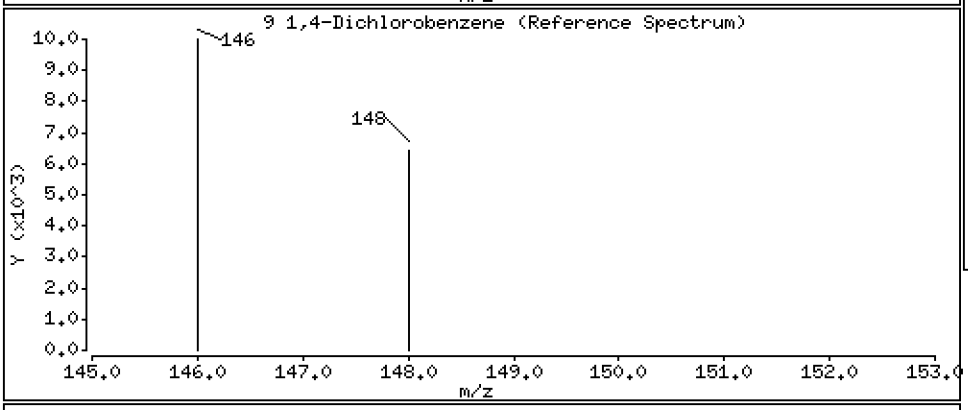
Concentration: 1.025 ug/L

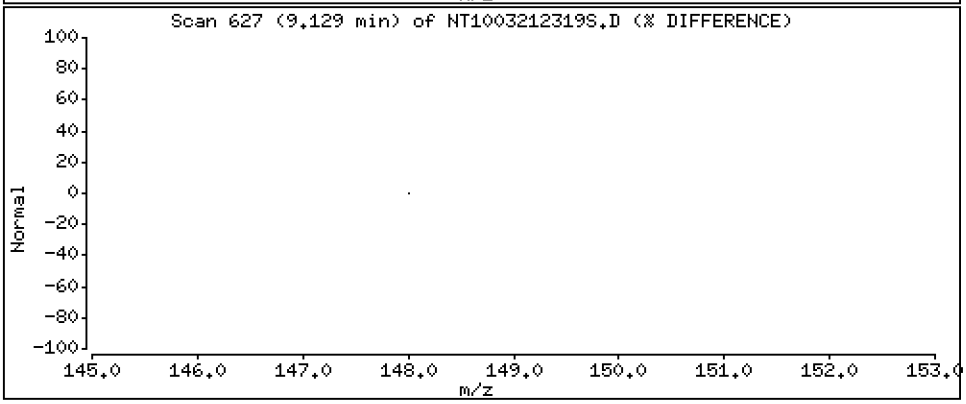












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT10032123195.D

Date : 22-MAR-2023 04:41

Client ID:

Instrument: nt10.i

Sample Info: SLC0452-CCV1

Volume Injected (uL): 1.0

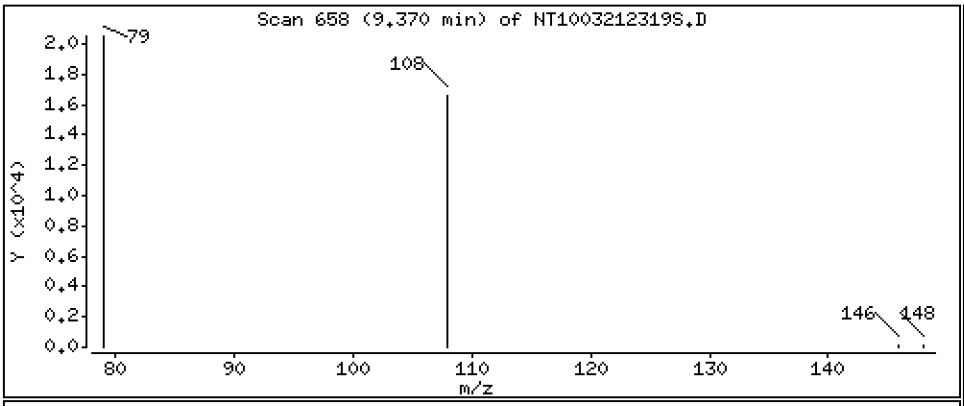
Operator: JGR

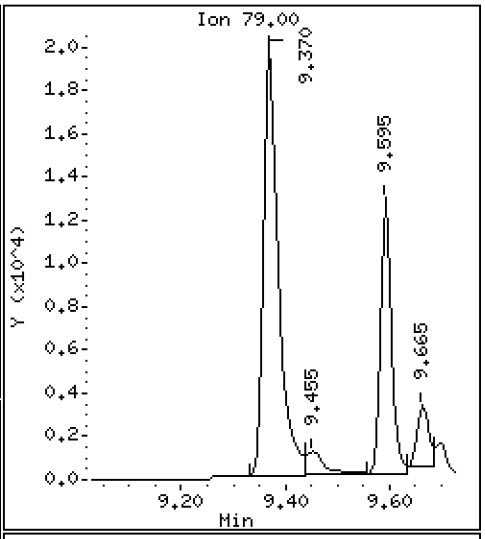
Column phase: ZB-5msi

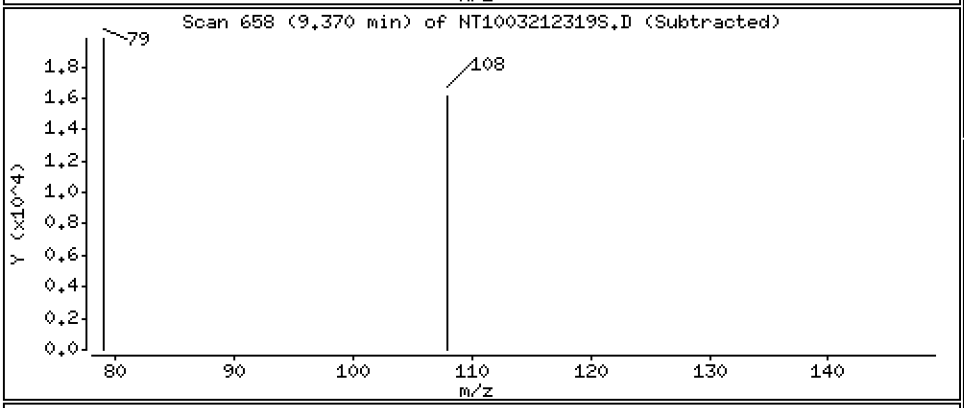
Column diameter: 0.25

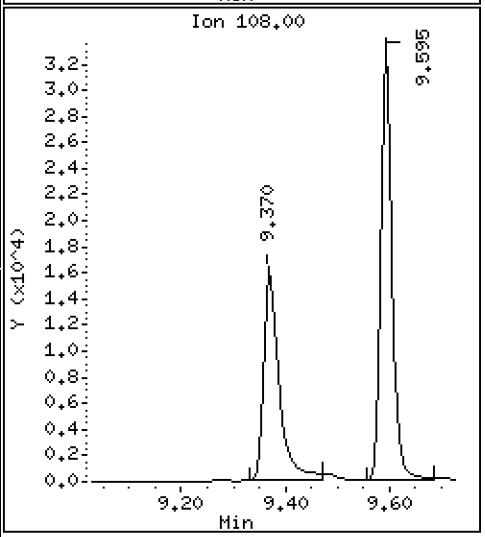
11 Benzyl alcohol

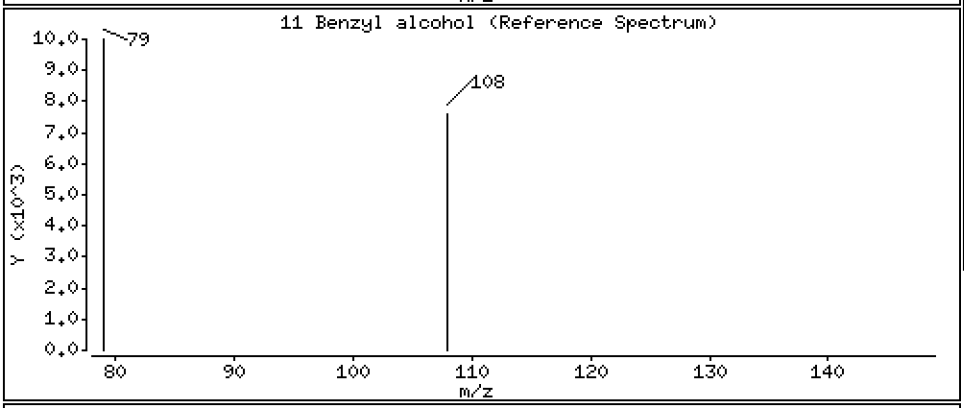
Concentration: 0.9733 ug/L

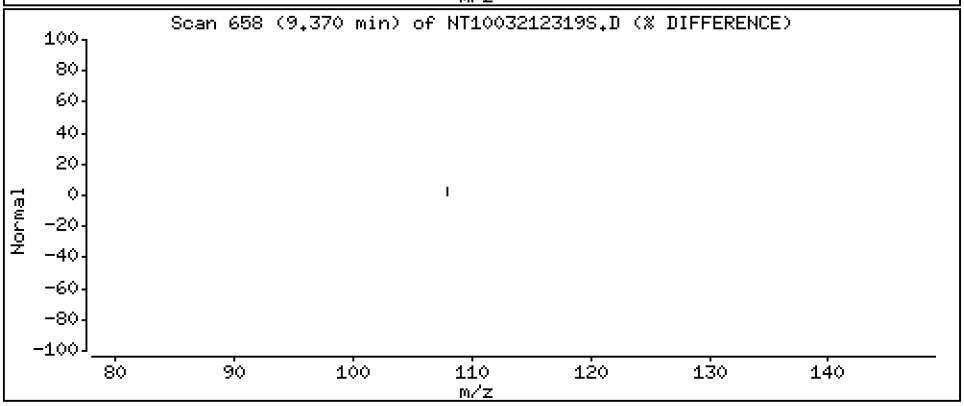












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT10032123195.D

Date : 22-MAR-2023 04:41

Client ID:

Instrument: nt10.i

Sample Info: SLC0452-CCV1

Volume Injected (uL): 1.0

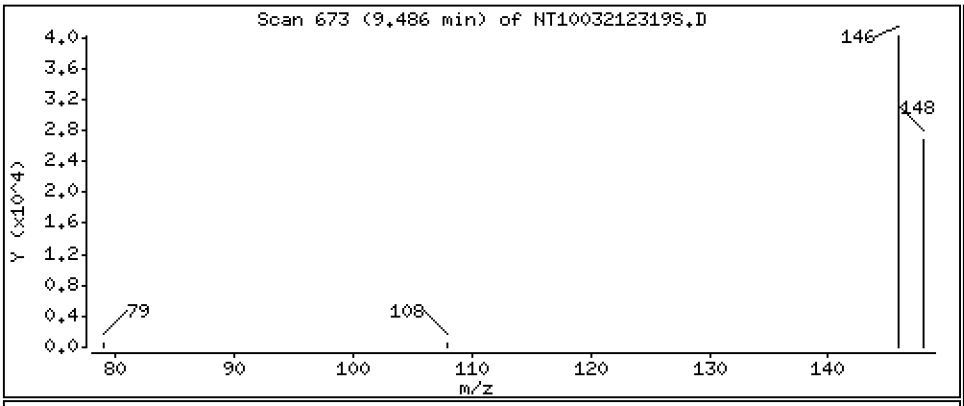
Operator: JGR

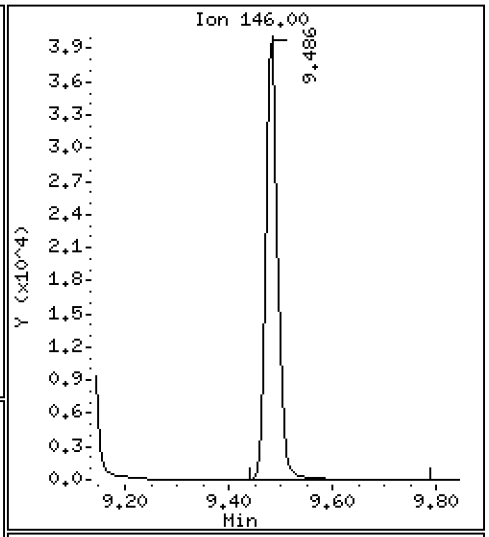
Column phase: ZB-5msi

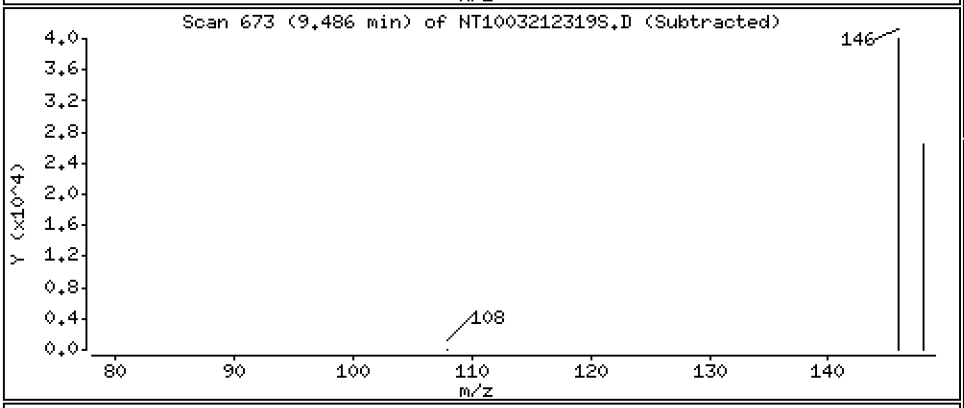
Column diameter: 0.25

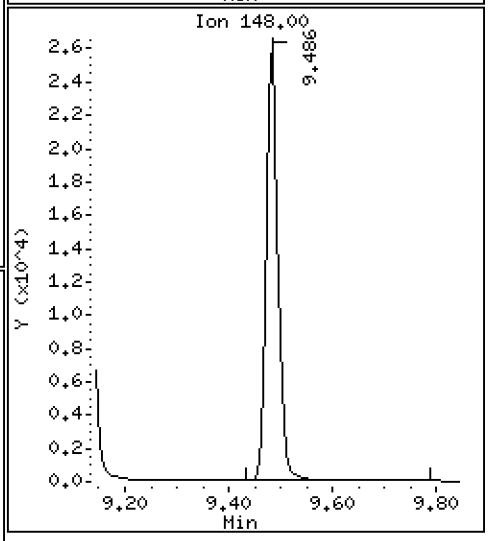
12 1,2-Dichlorobenzene

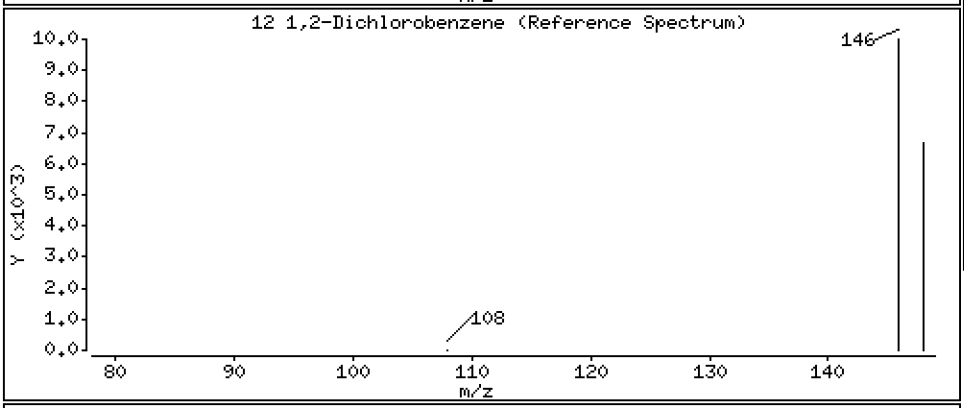
Concentration: 1.035 ug/L

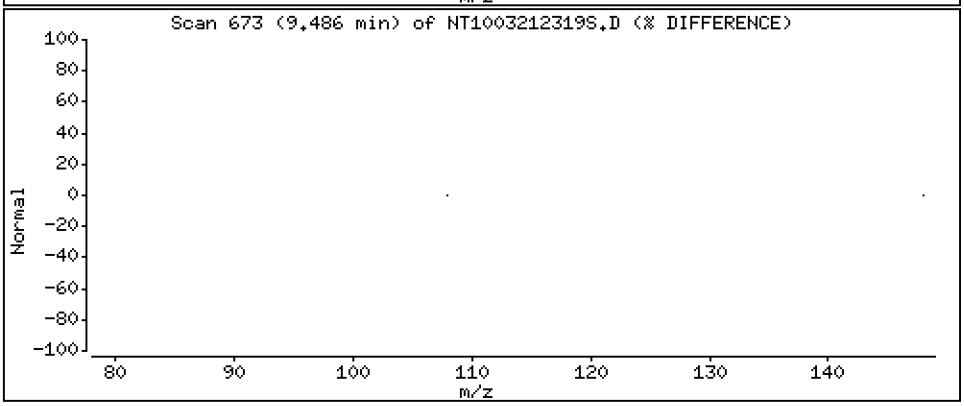












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT10032123195.D

Date : 22-MAR-2023 04:41

Client ID:

Instrument: nt10.i

Sample Info: SLC0452-CCV1

Volume Injected (uL): 1.0

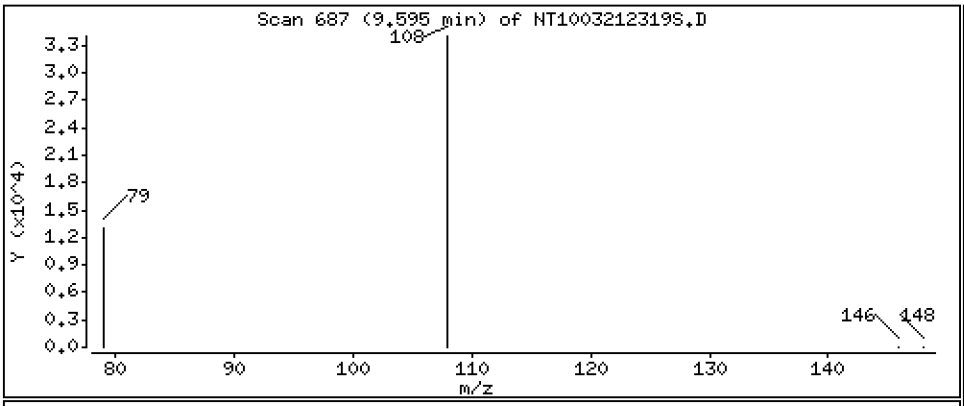
Operator: JGR

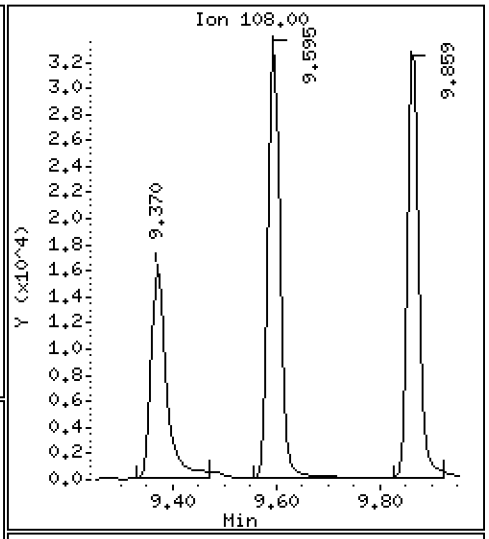
Column phase: ZB-5msi

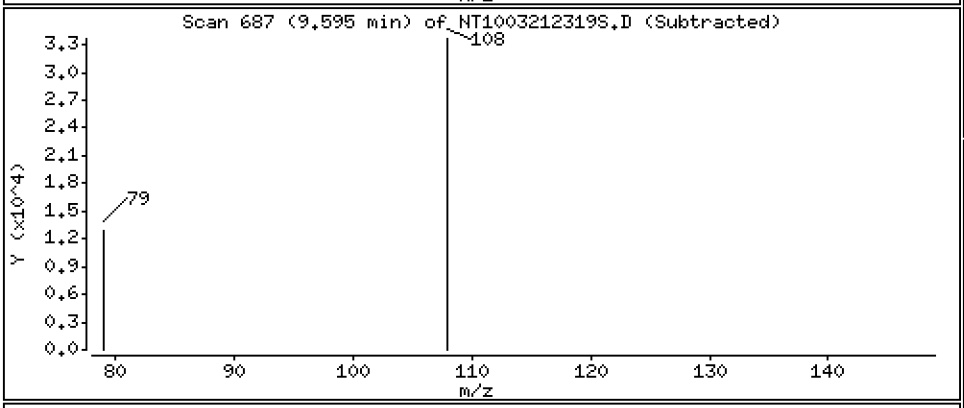
Column diameter: 0.25

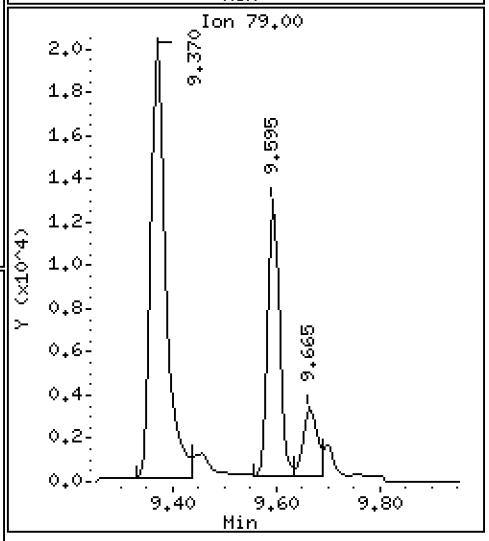
13 2-Methylphenol

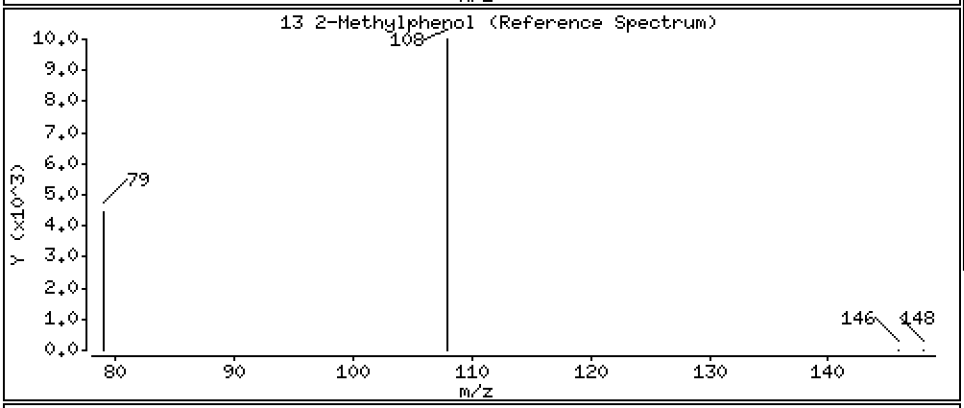
Concentration: 1.065 ug/L

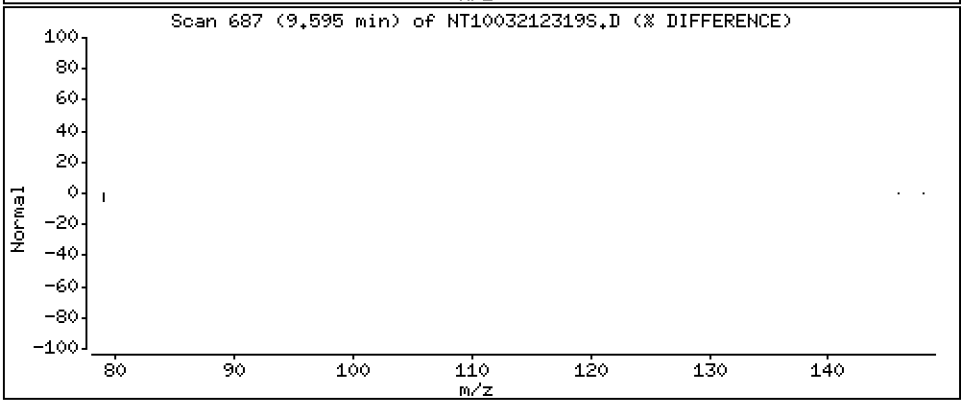












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Date : 22-MAR-2023 04:41

Client ID:

Instrument: nt10.i

Sample Info: SLC0452-CCV1

Volume Injected (uL): 1.0

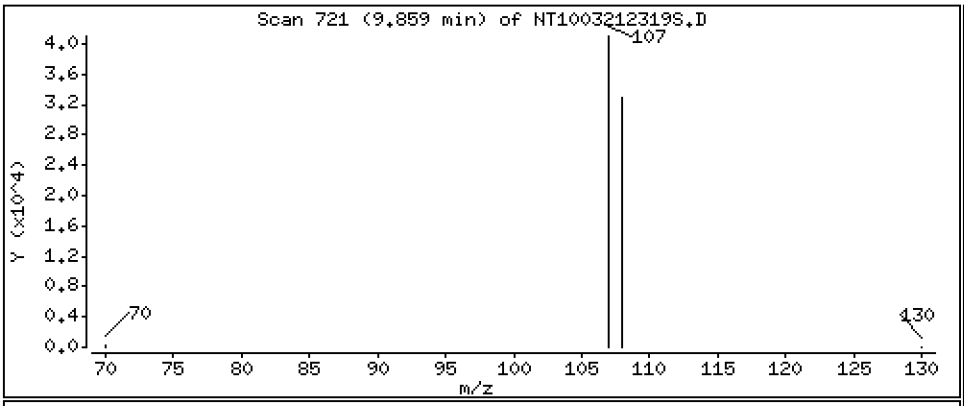
Operator: JGR

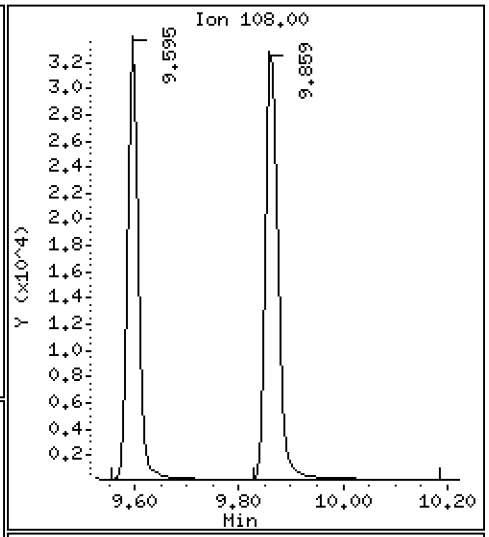
Column phase: ZB-5msi

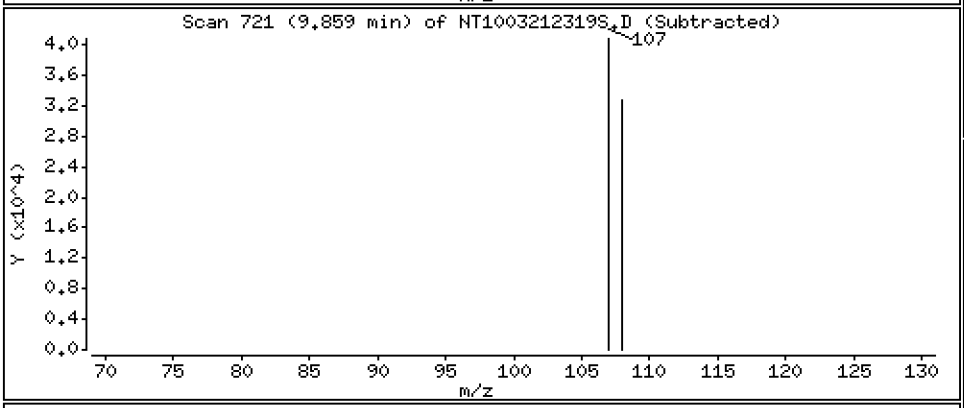
Column diameter: 0.25

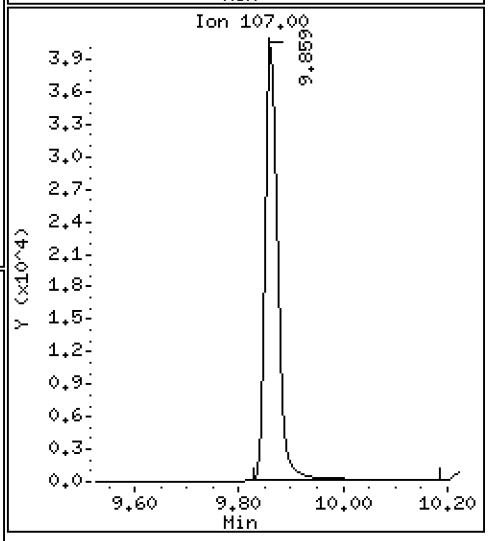
15 4-Methylphenol

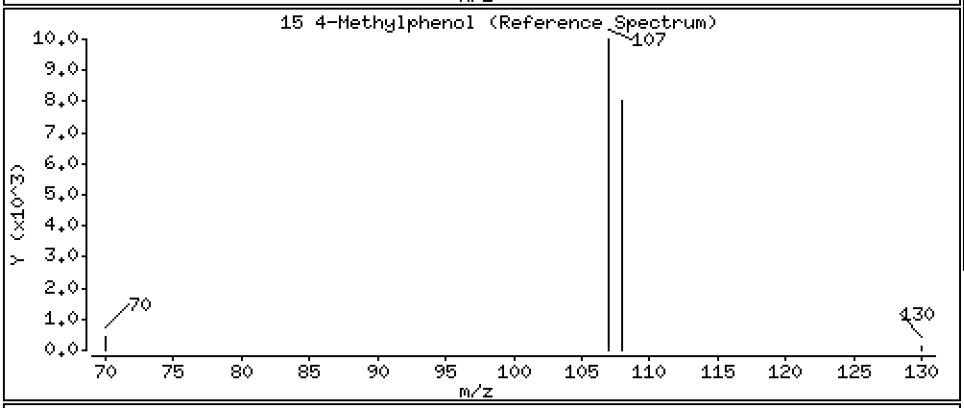
Concentration: 1.089 ug/L

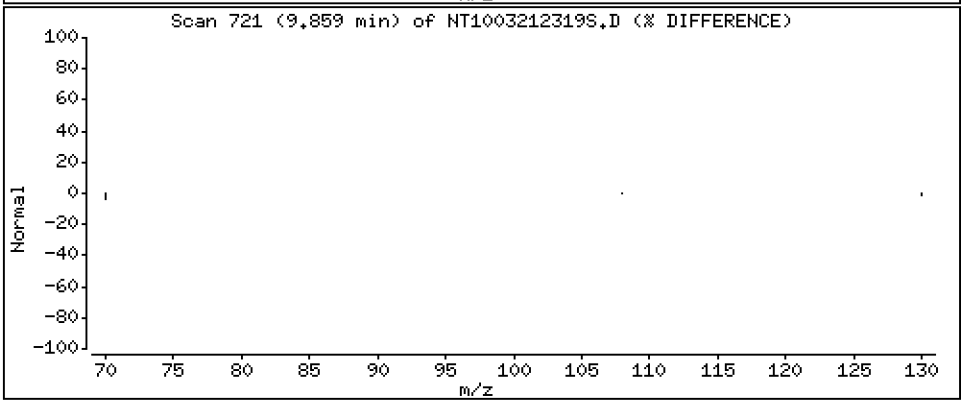












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Date : 22-MAR-2023 04:41

Client ID:

Instrument: nt10.i

Sample Info: SLC0452-CCV1

Volume Injected (uL): 1.0

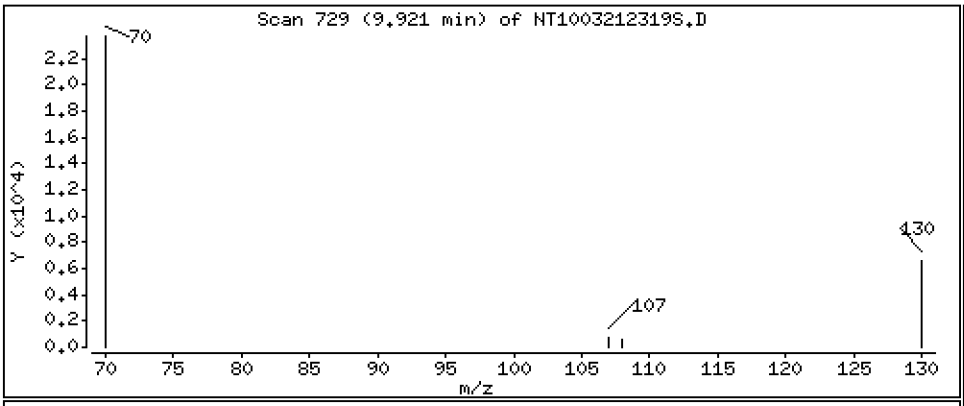
Operator: JGR

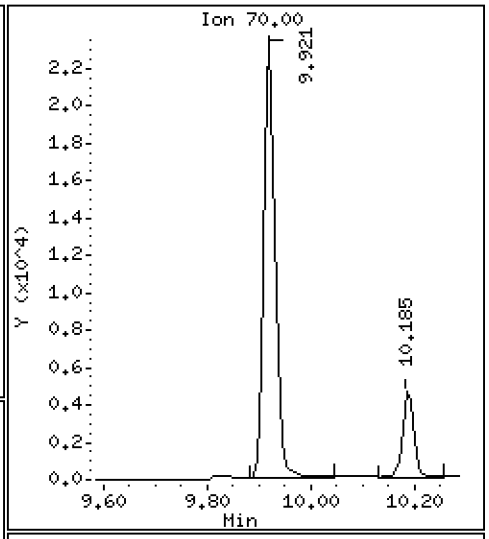
Column phase: ZB-5msi

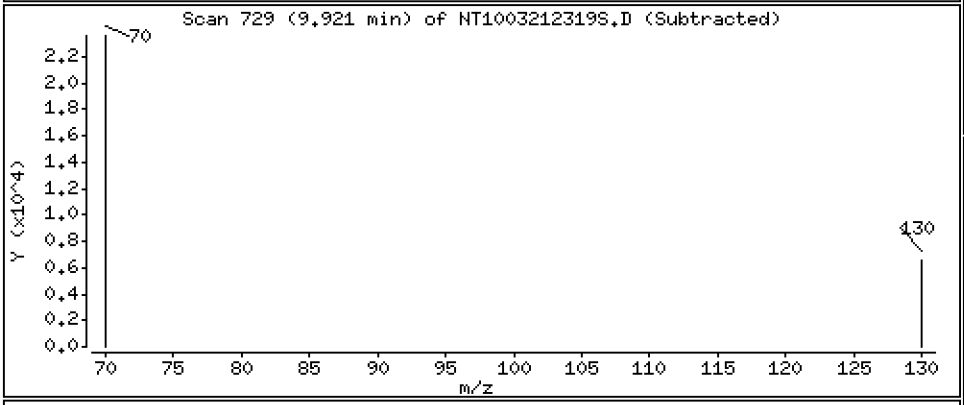
Column diameter: 0.25

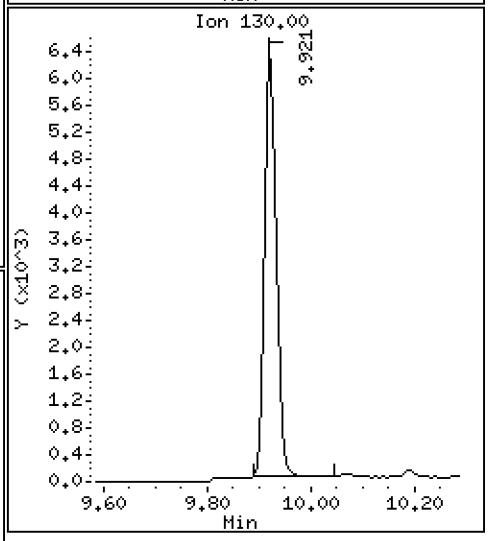
16 N-Nitroso-di-n-propylamine

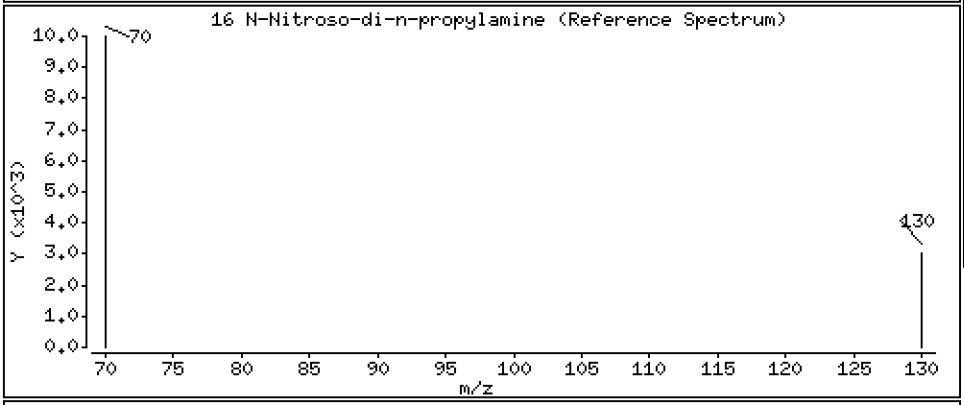
Concentration: 0.9924 ug/L

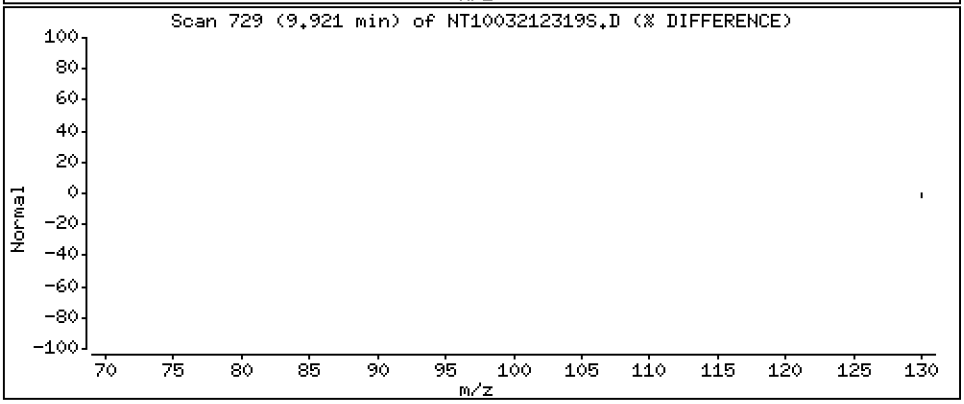












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Date : 22-MAR-2023 04:41

Client ID:

Instrument: nt10.i

Sample Info: SLC0452-CCV1

Volume Injected (uL): 1.0

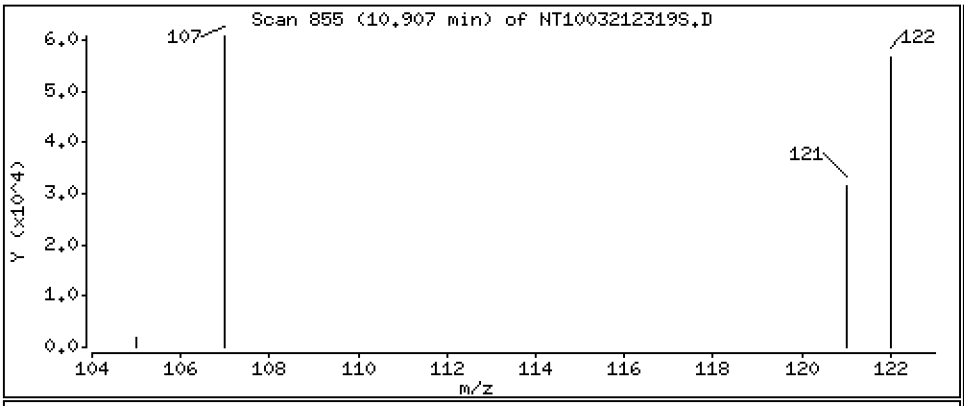
Operator: JGR

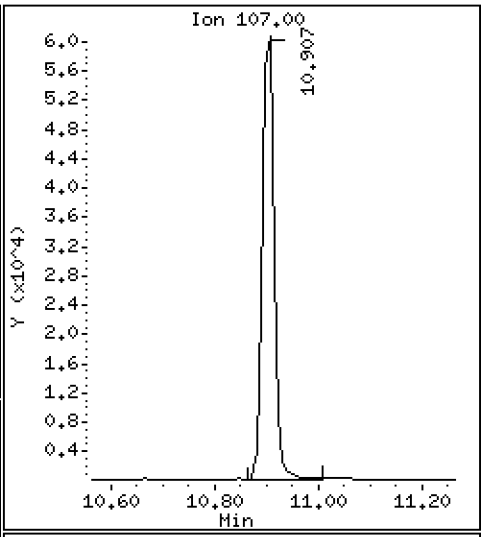
Column phase: ZB-5msi

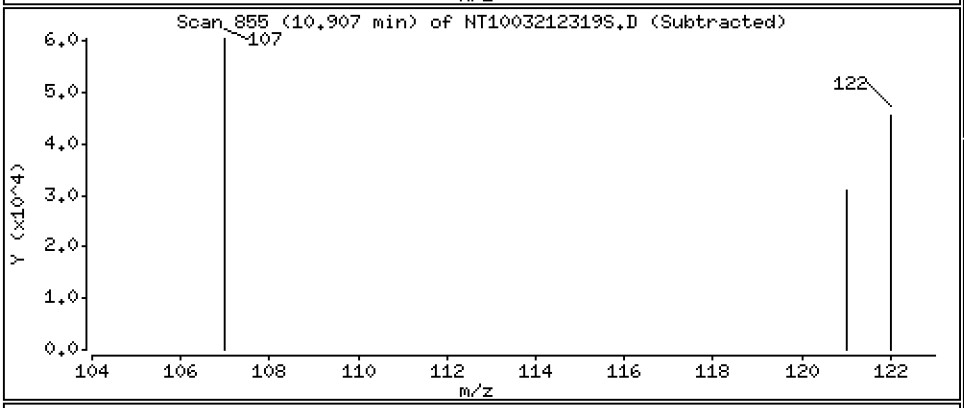
Column diameter: 0.25

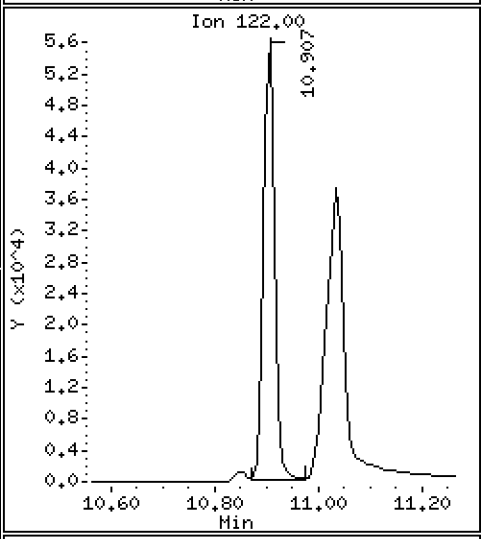
22 2,4-Dimethylphenol

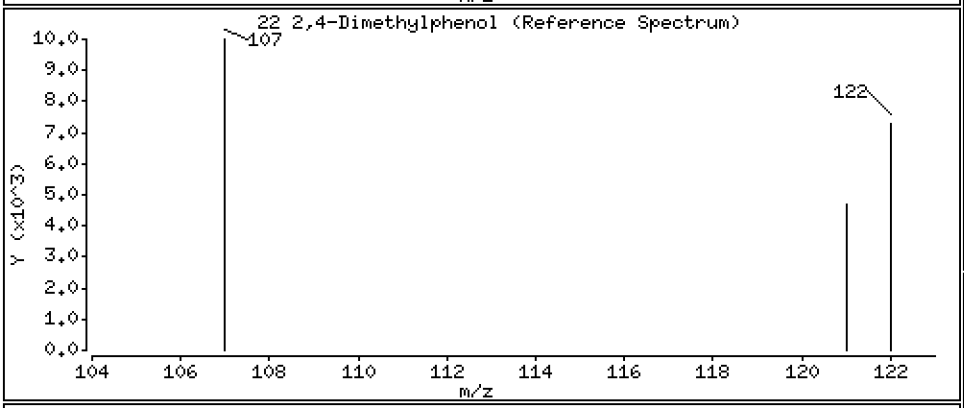
Concentration: 1.925 ug/L

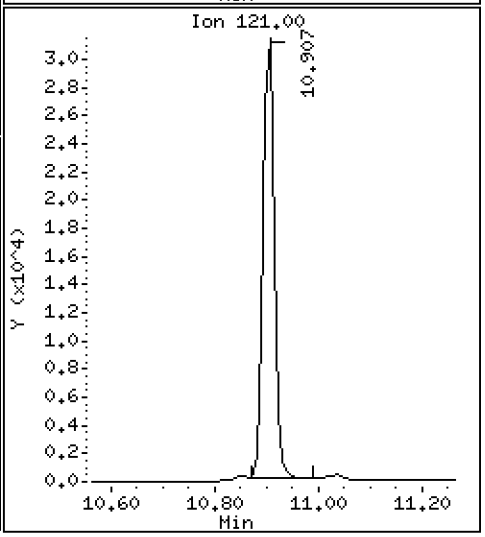


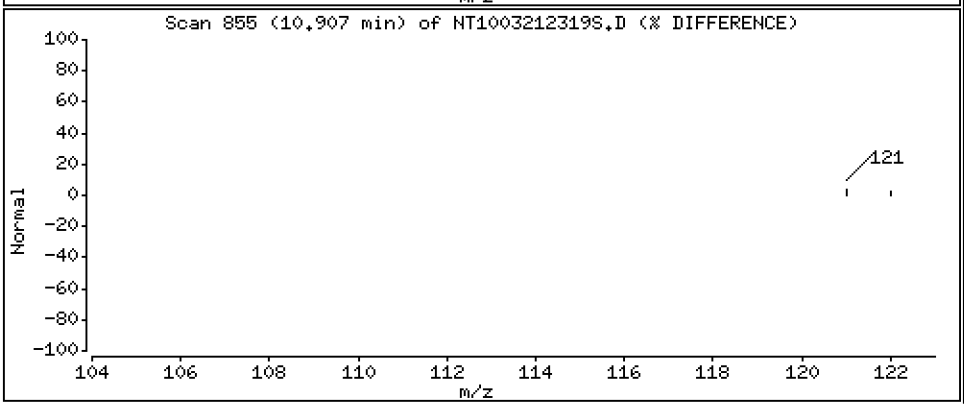












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Date : 22-MAR-2023 04:41

Client ID:

Instrument: nt10.i

Sample Info: SLC0452-CCV1

Volume Injected (uL): 1.0

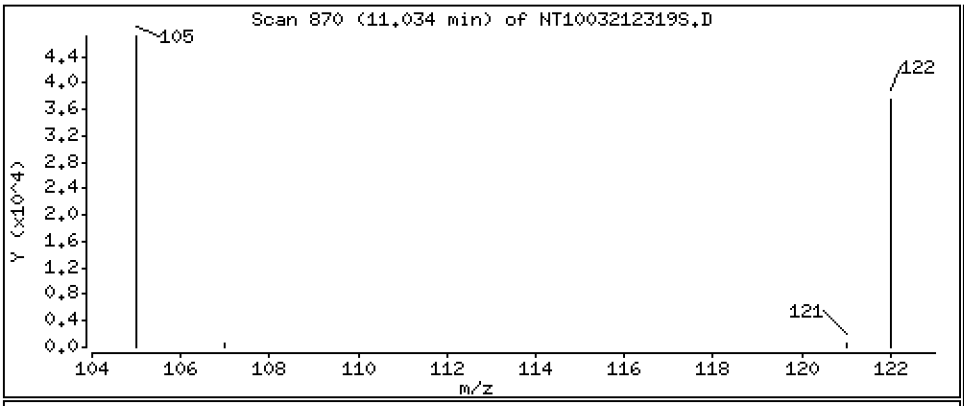
Operator: JGR

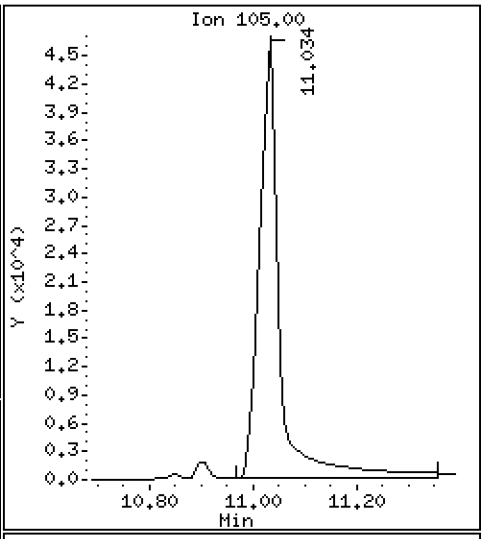
Column phase: ZB-5msi

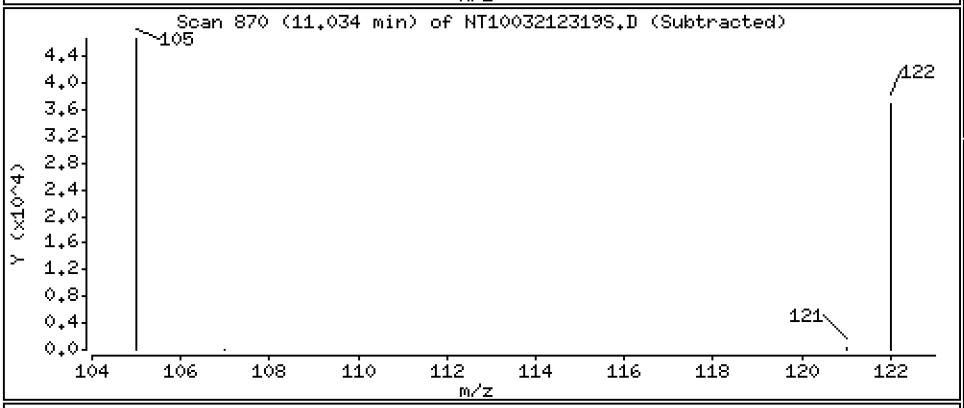
Column diameter: 0.25

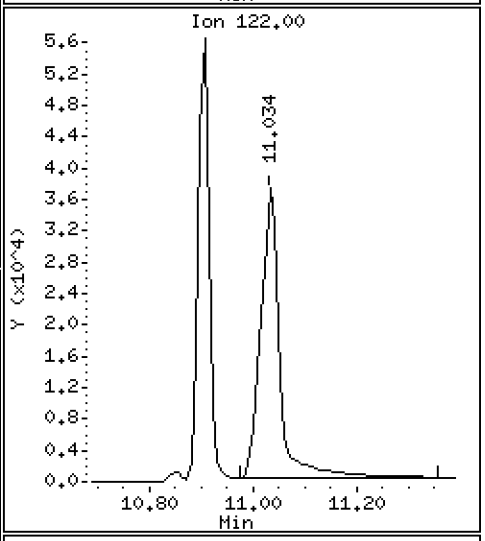
24 Benzoic acid

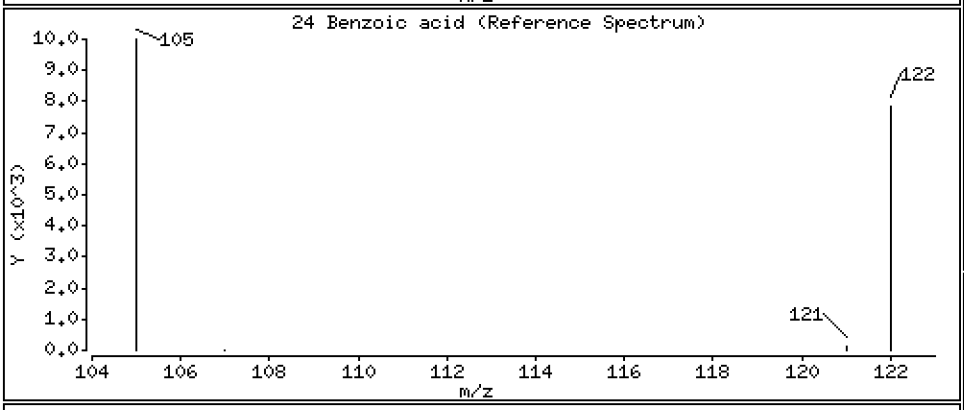
Concentration: 4.549 ug/L

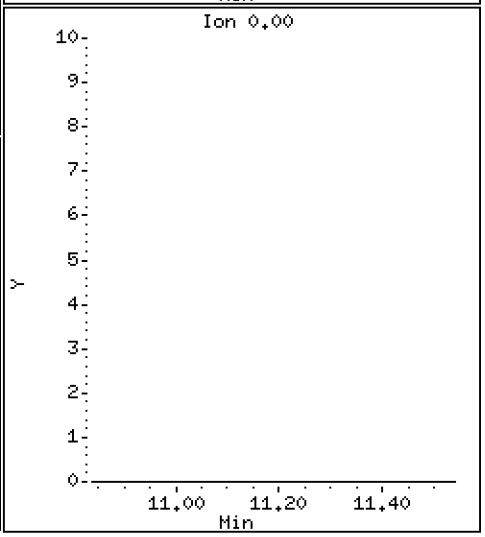


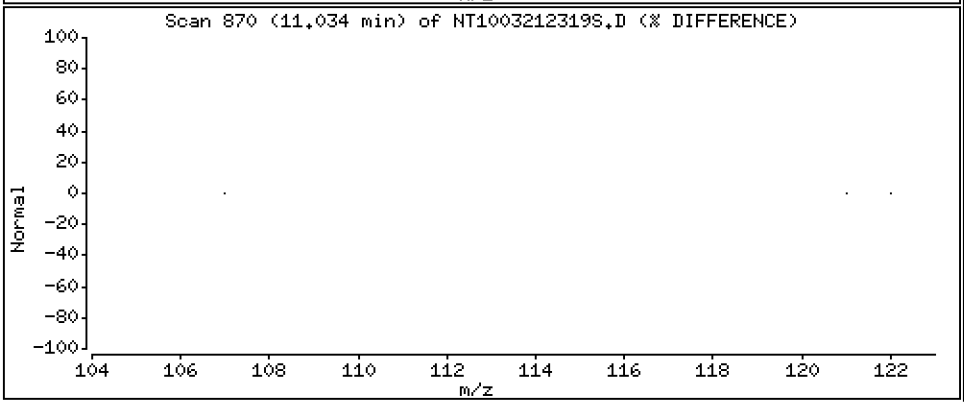












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Date : 22-MAR-2023 04:41

Client ID:

Instrument: nt10.i

Sample Info: SLC0452-CCV1

Volume Injected (uL): 1.0

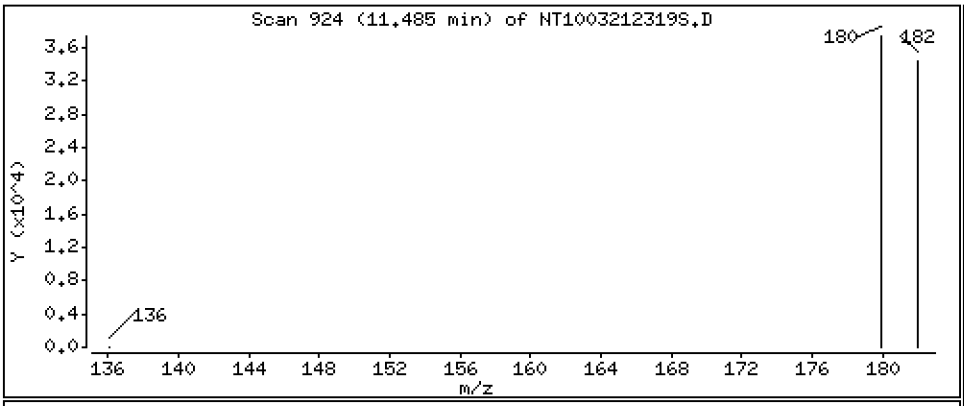
Operator: JGR

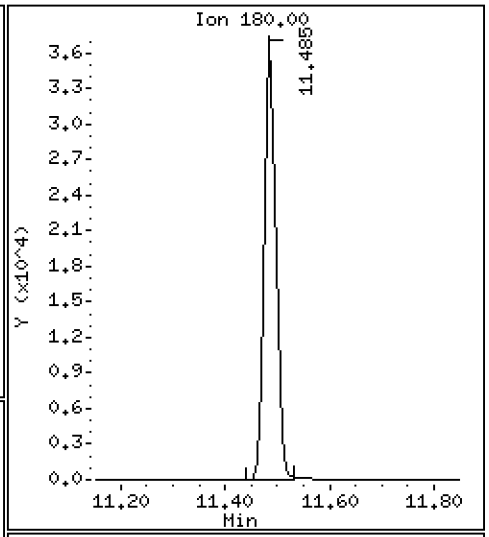
Column phase: ZB-5msi

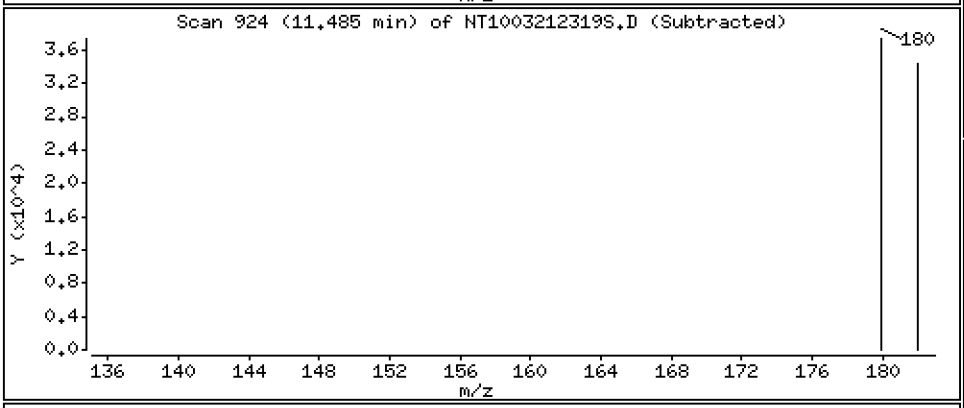
Column diameter: 0.25

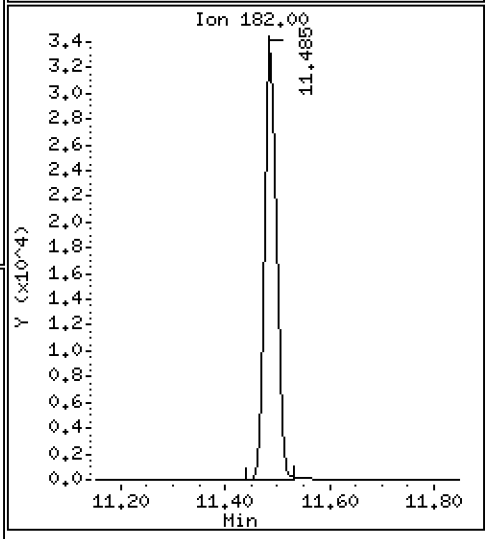
26 1,2,4-Trichlorobenzene

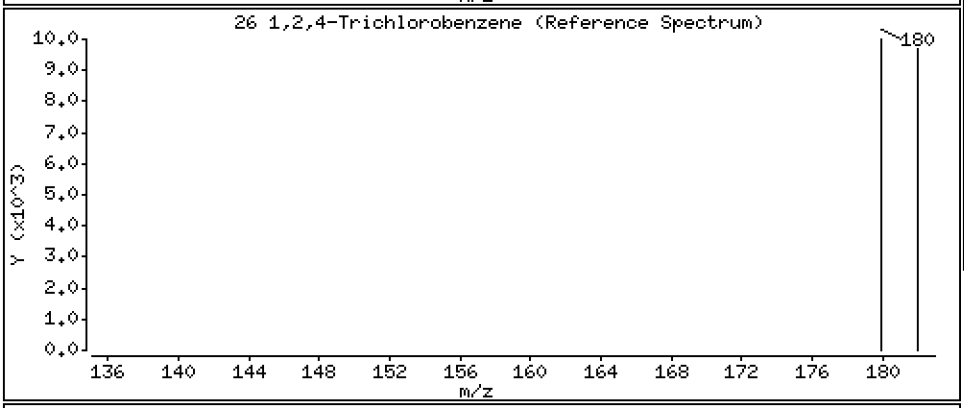
Concentration: 1.086 ug/L

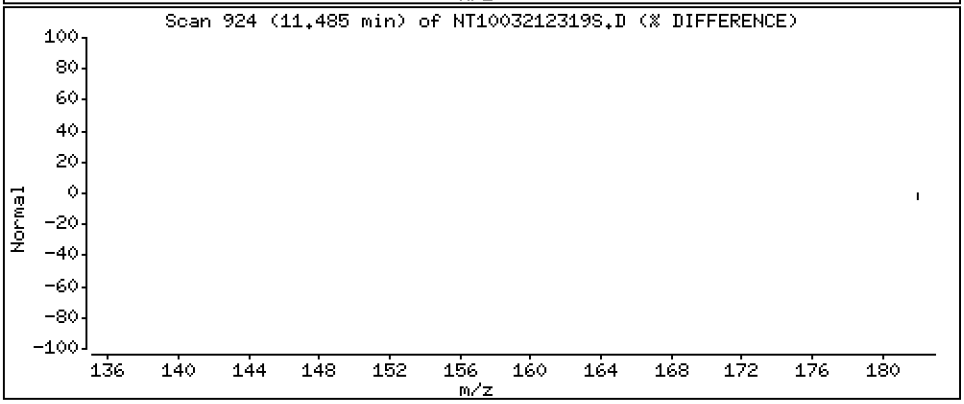












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Date : 22-MAR-2023 04:41

Client ID:

Instrument: nt10.i

Sample Info: SLC0452-CCV1

Volume Injected (uL): 1.0

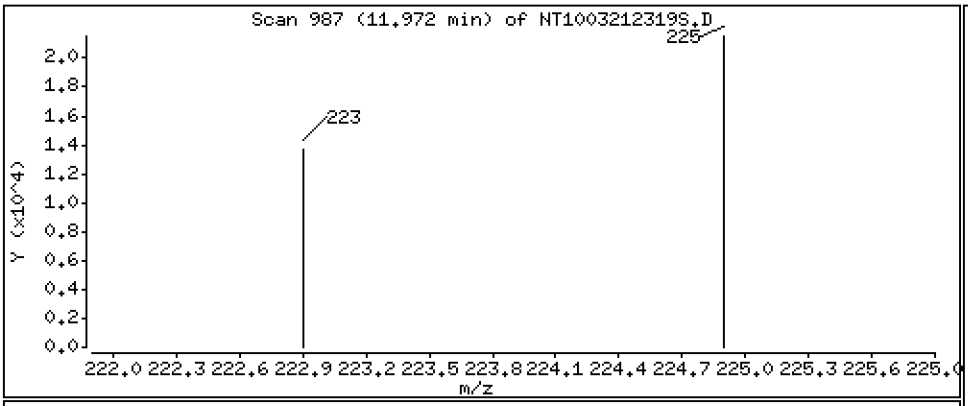
Operator: JGR

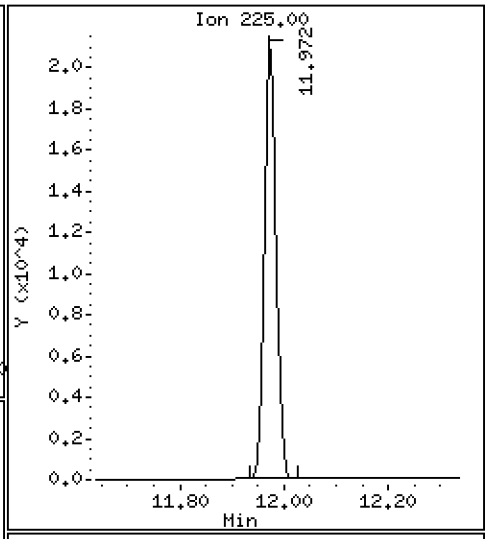
Column phase: ZB-5msi

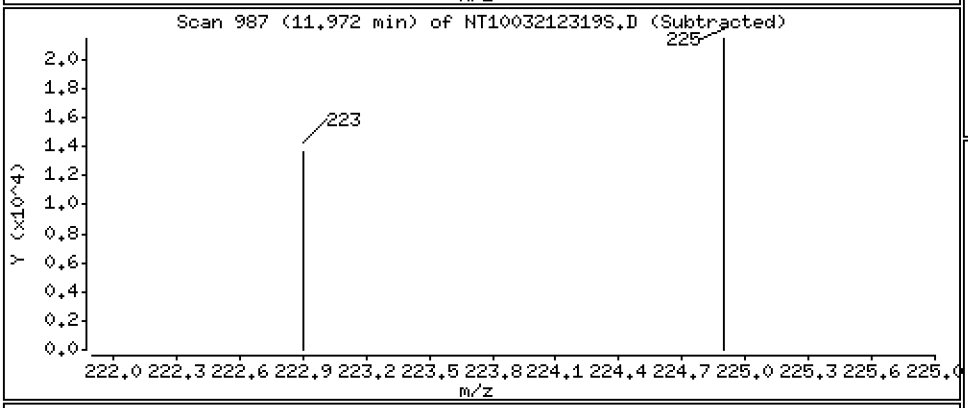
Column diameter: 0.25

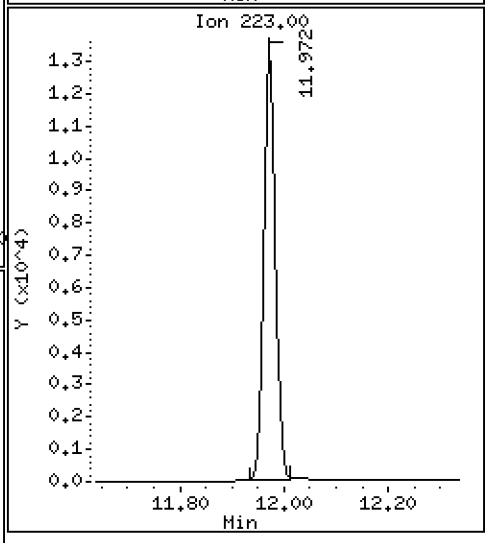
30 Hexachlorobutadiene

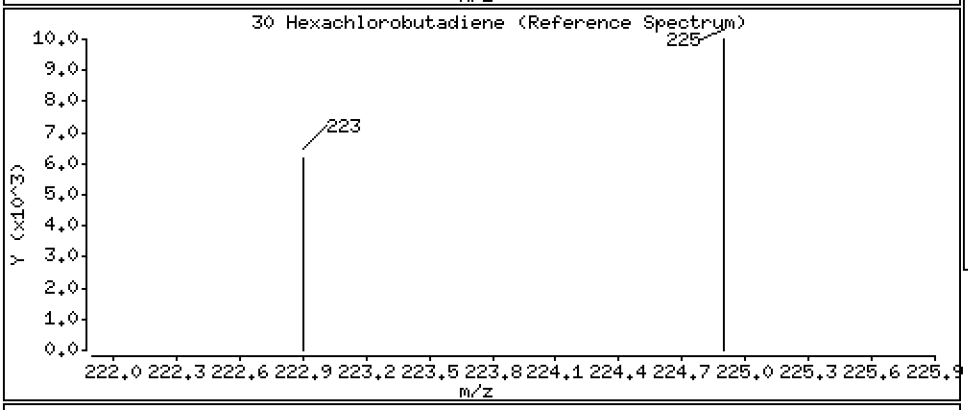
Concentration: 1.079 ug/L

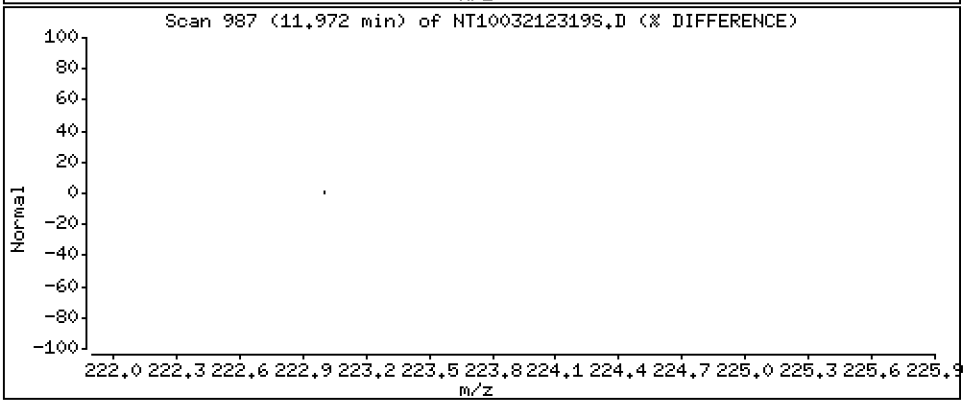












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Date : 22-MAR-2023 04:41

Client ID:

Instrument: nt10.i

Sample Info: SLC0452-CCV1

Volume Injected (uL): 1.0

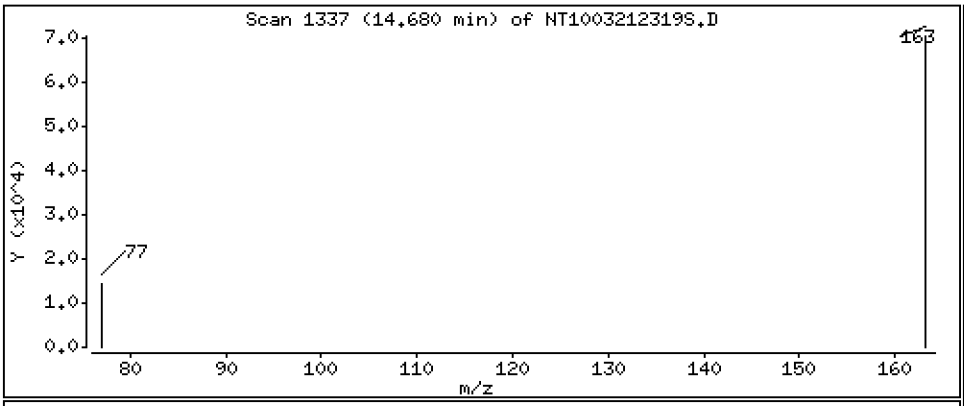
Operator: JGR

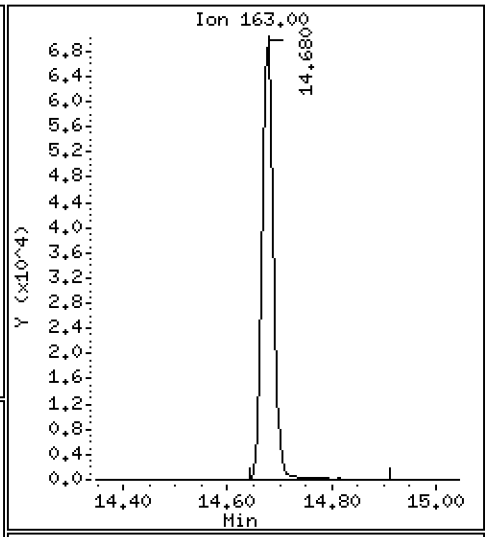
Column phase: ZB-5msi

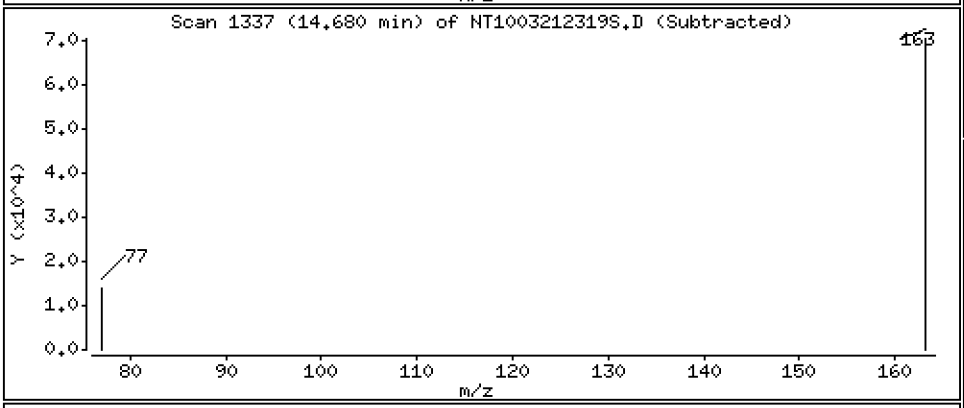
Column diameter: 0.25

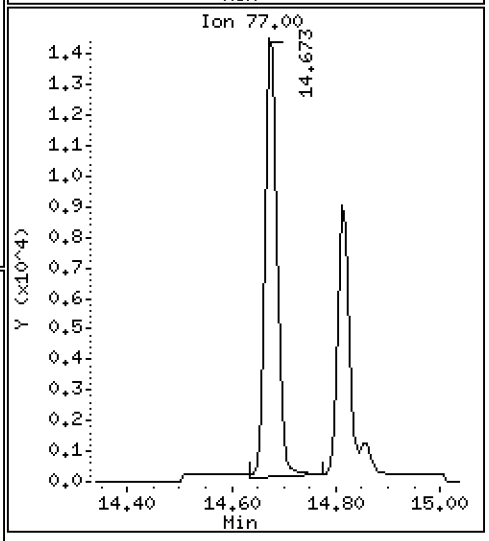
39 Dimethylphthalate

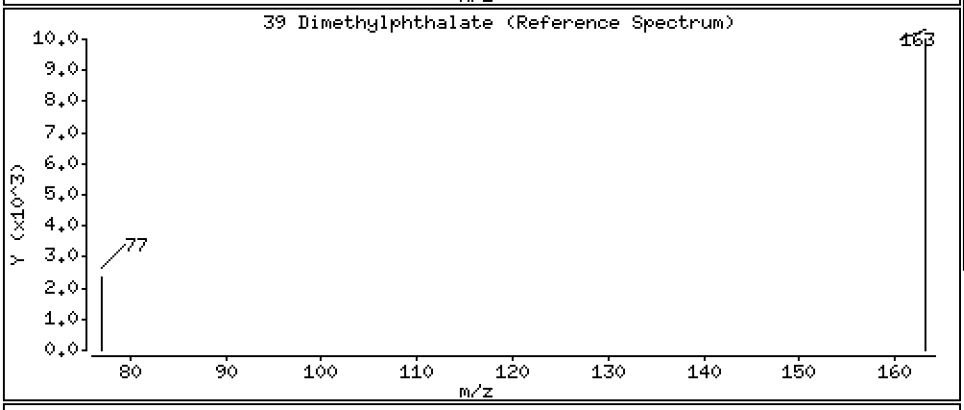
Concentration: 1.196 ug/L

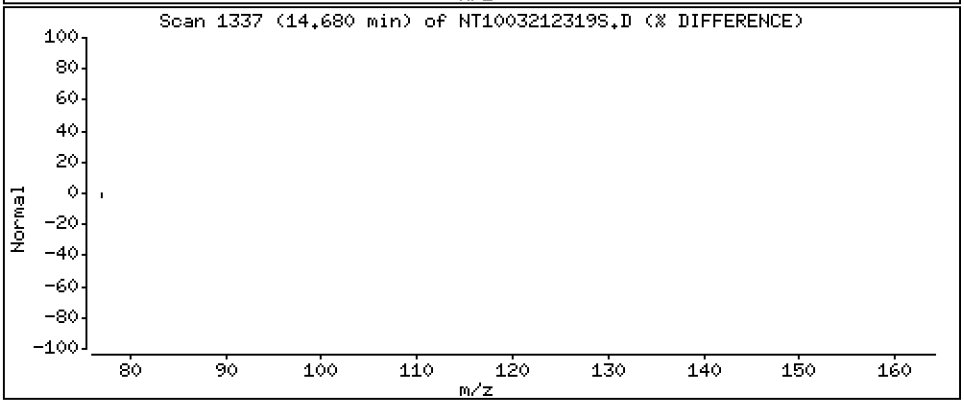












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212319S.D

Date : 22-MAR-2023 04:41

Client ID:

Instrument: nt10.i

Sample Info: SLC0452-CCV1

Volume Injected (uL): 1.0

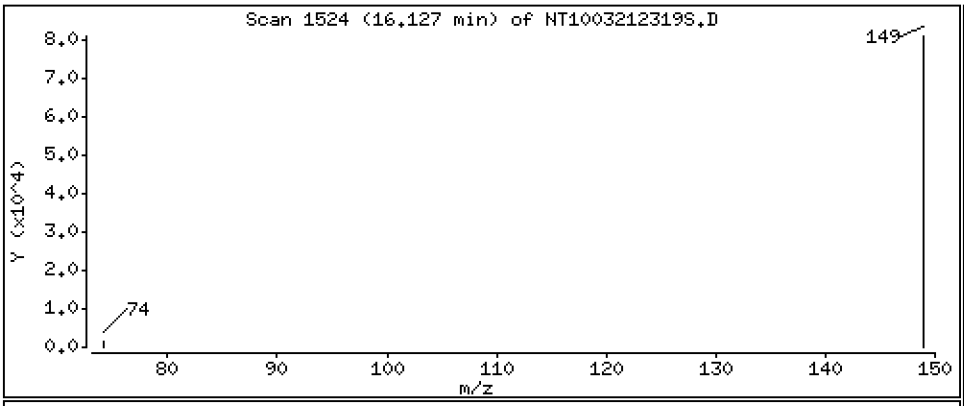
Operator: JGR

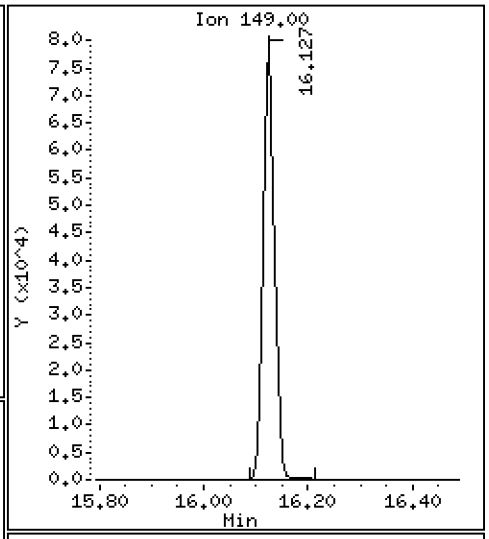
Column phase: ZB-5msi

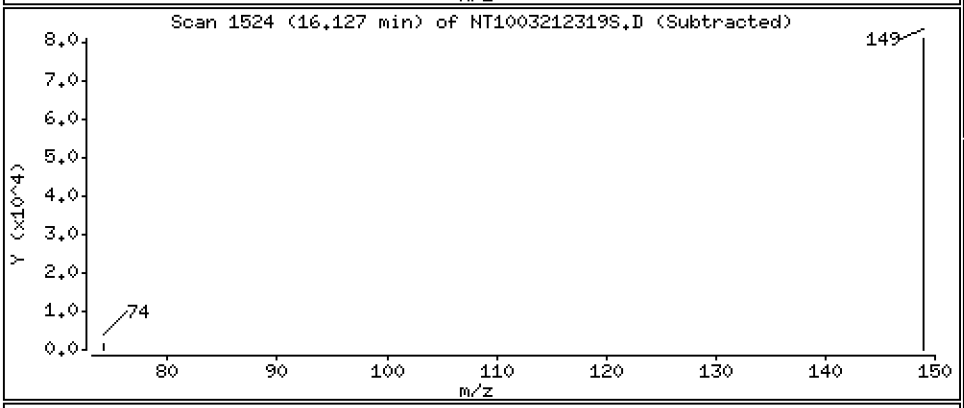
Column diameter: 0.25

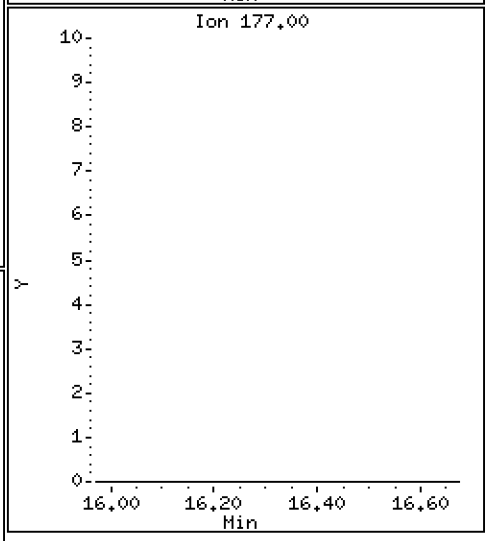
50 Diethylphthalate

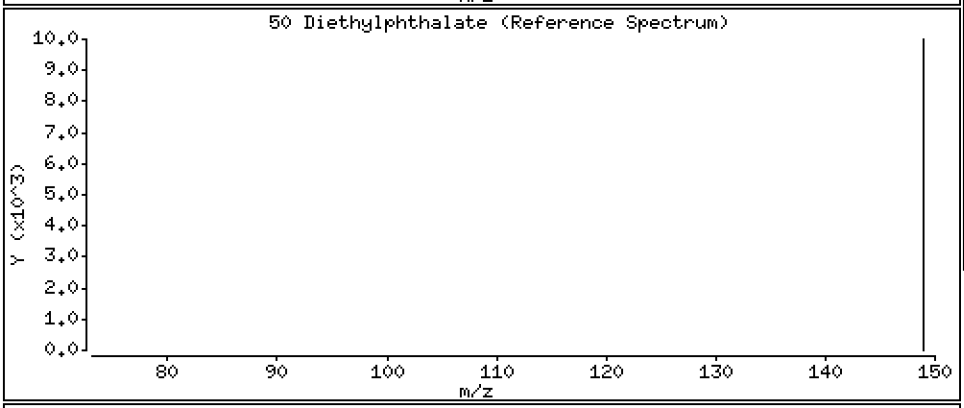
Concentration: 1.233 ug/L

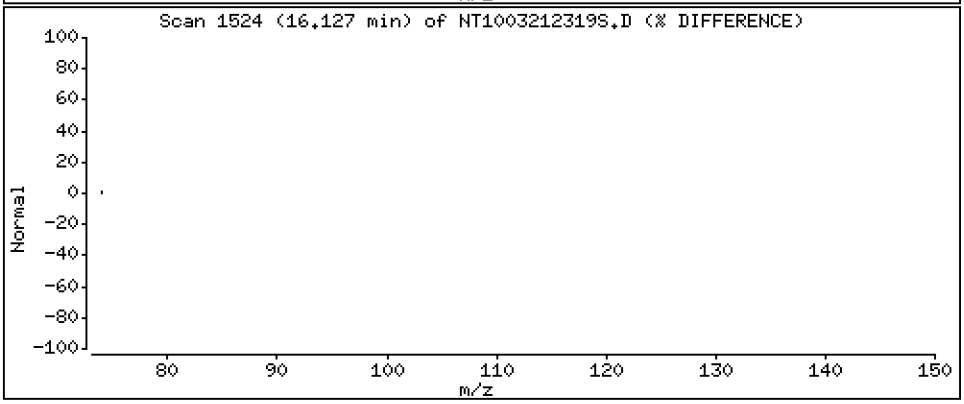












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT10032123195.D

Date : 22-MAR-2023 04:41

Client ID:

Instrument: nt10.i

Sample Info: SLC0452-CCV1

Volume Injected (uL): 1.0

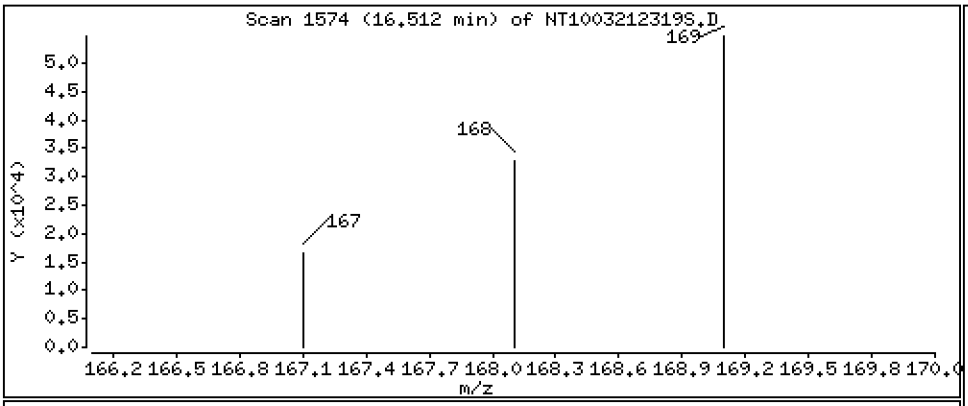
Operator: JGR

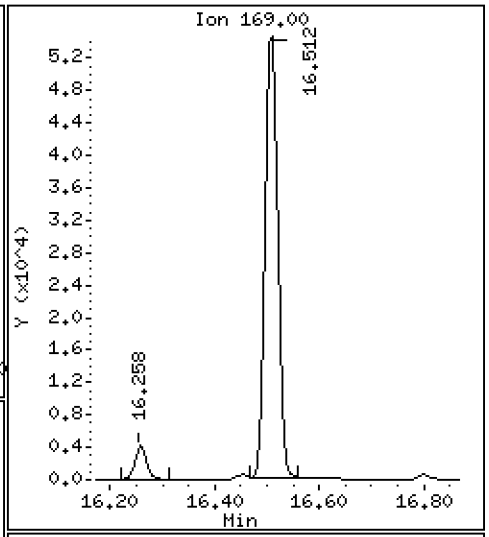
Column phase: ZB-5msi

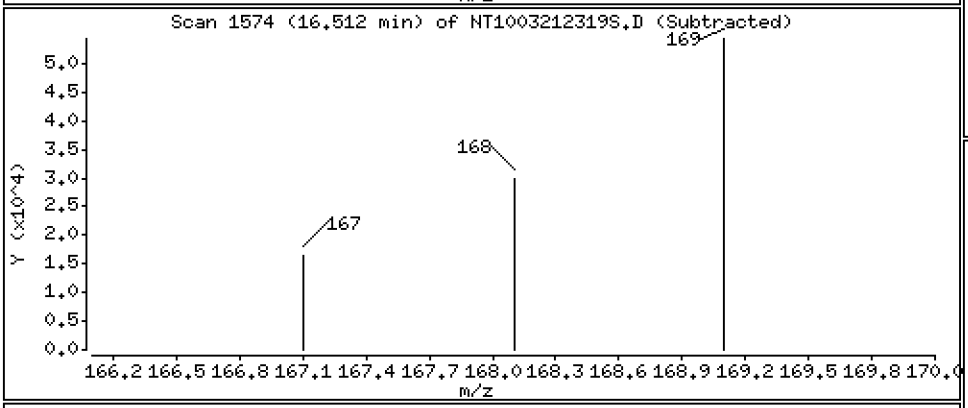
Column diameter: 0.25

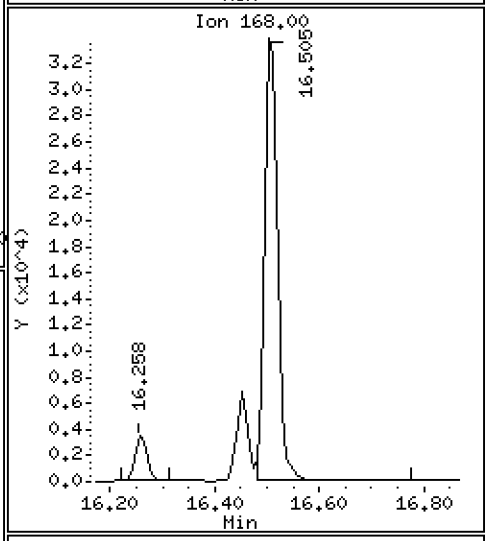
54 N-Nitrosodiphenylamine

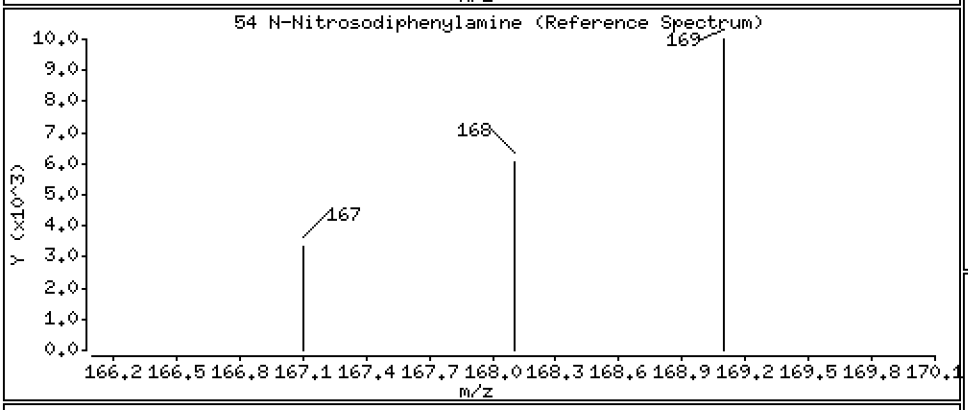
Concentration: 1.125 ug/L

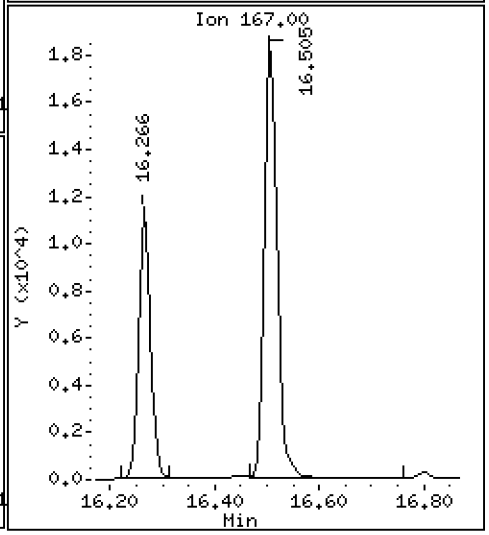


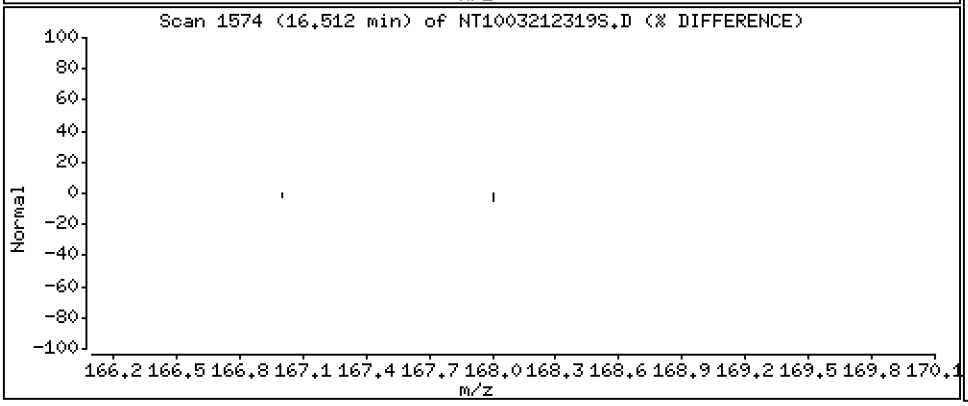












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Date : 22-MAR-2023 04:41

Client ID:

Instrument: nt10.i

Sample Info: SLC0452-CCV1

Volume Injected (uL): 1.0

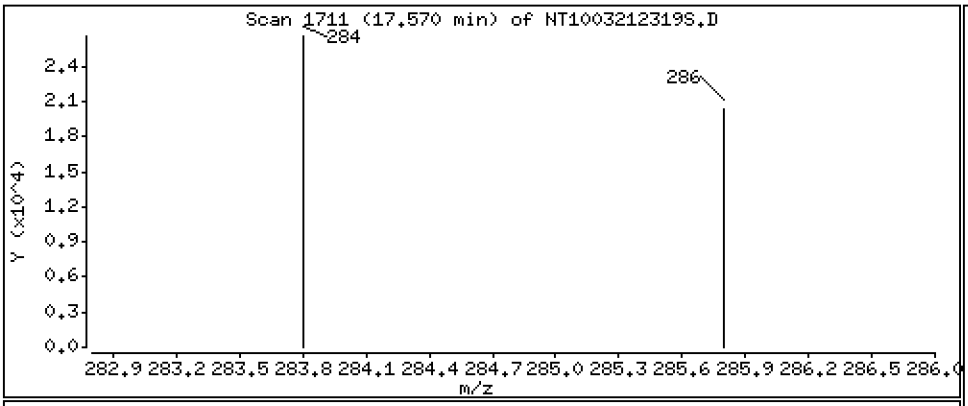
Operator: JGR

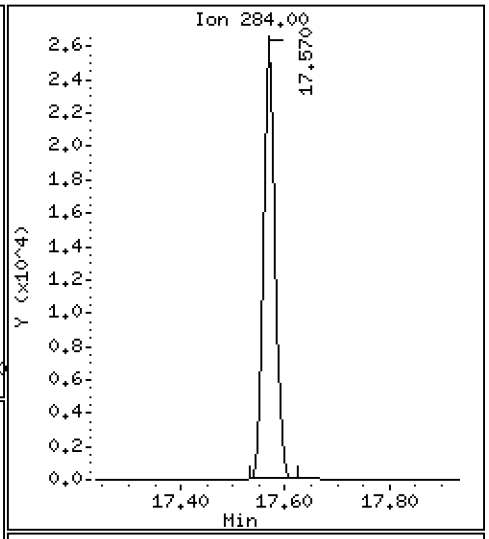
Column phase: ZB-5msi

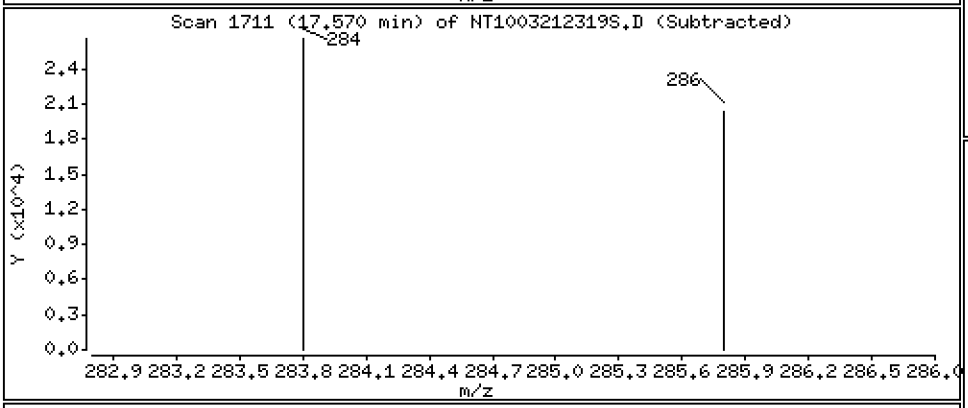
Column diameter: 0.25

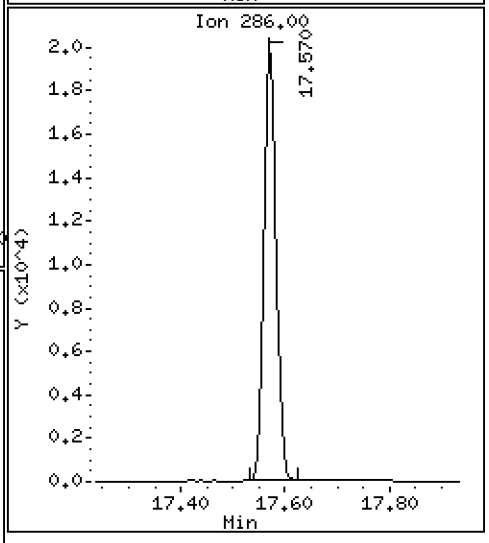
57 Hexachlorobenzene

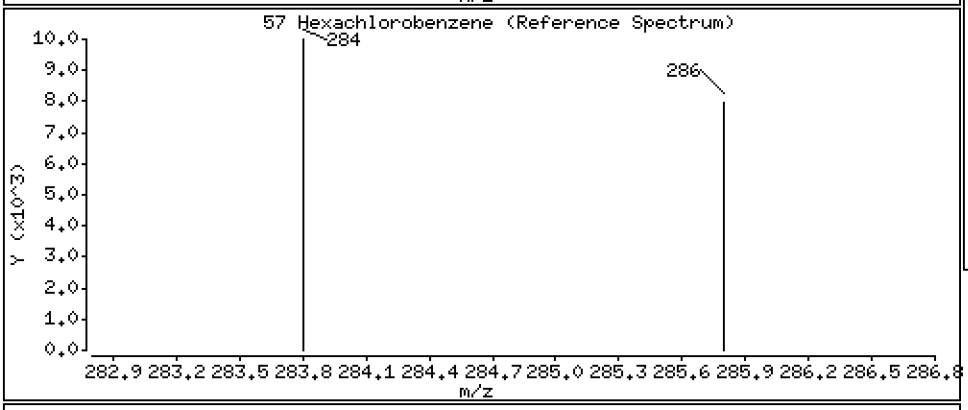
Concentration: 1.178 ug/L

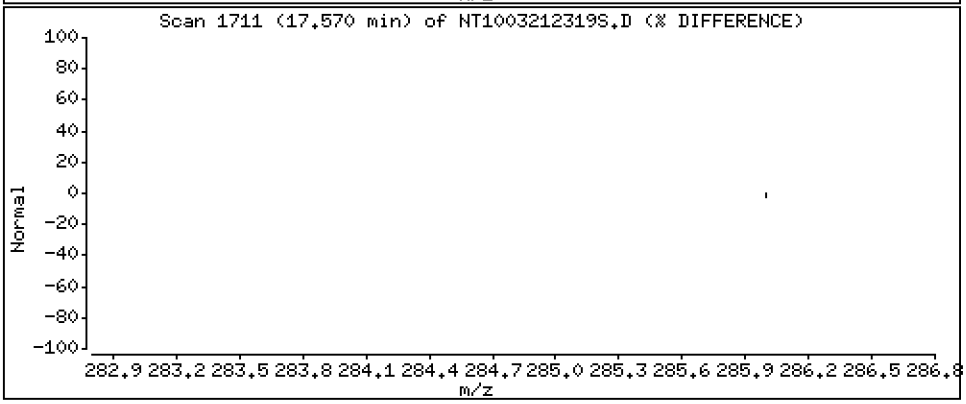












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212319S.D

Date : 22-MAR-2023 04:41

Client ID:

Instrument: nt10.i

Sample Info: SLC0452-CCV1

Volume Injected (uL): 1.0

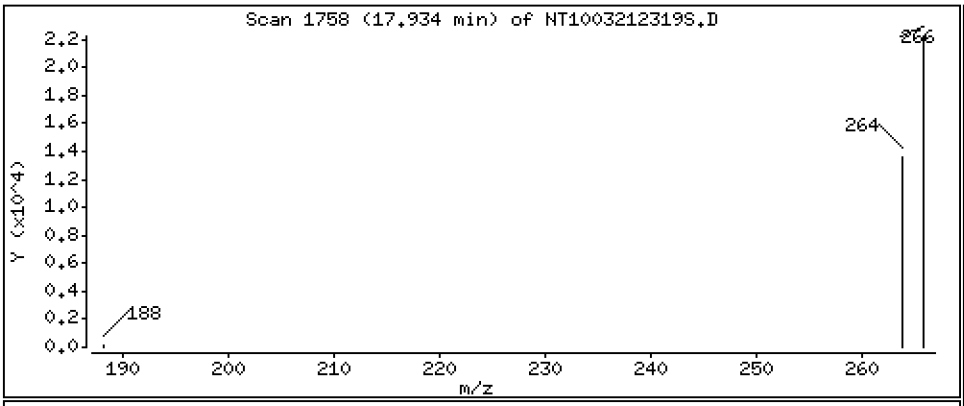
Operator: JGR

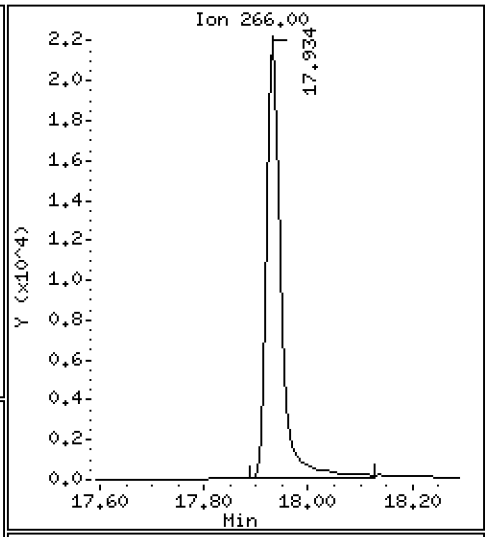
Column phase: ZB-5msi

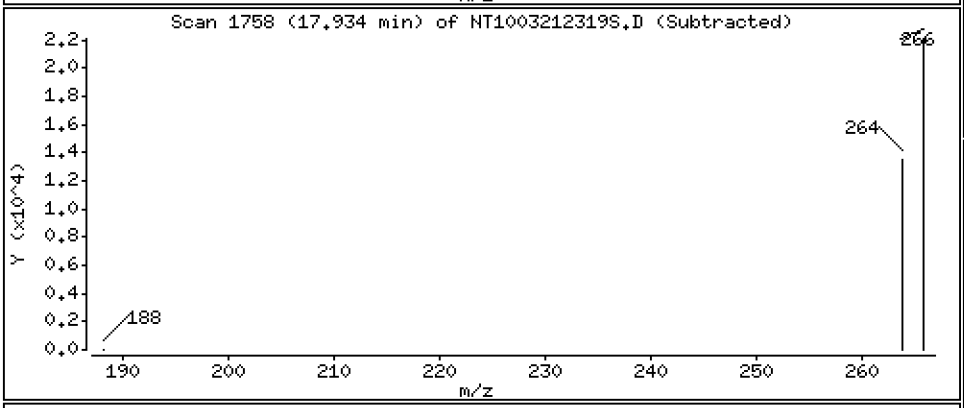
Column diameter: 0.25

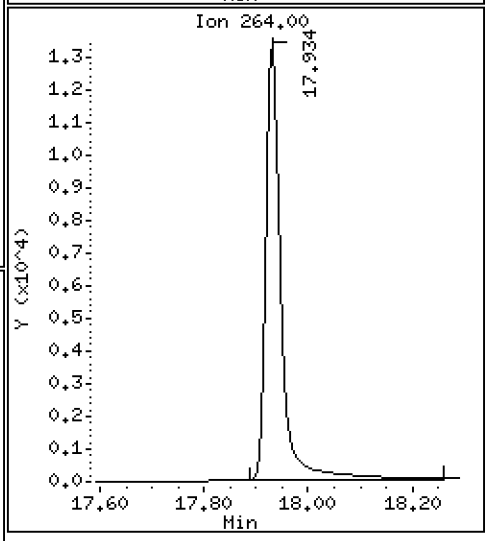
58 Pentachlorophenol

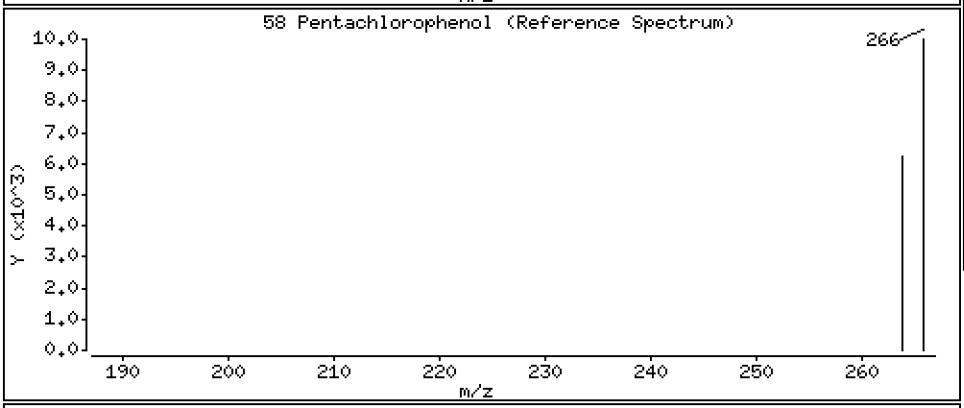
Concentration: 2.120 ug/L

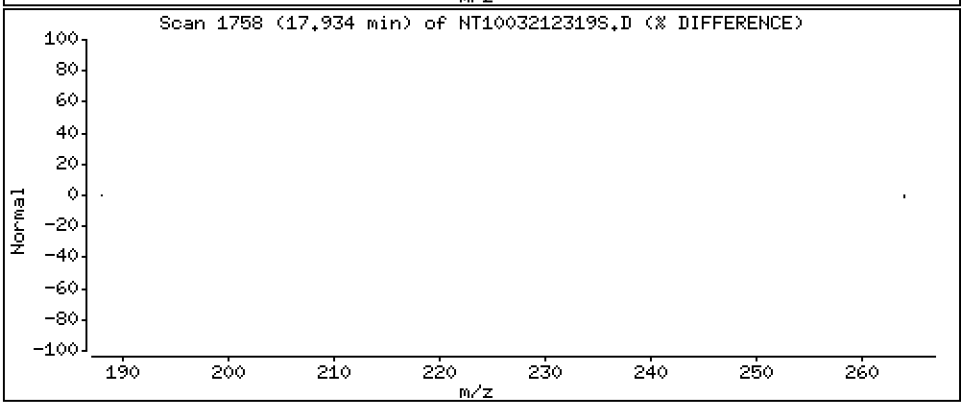












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Date : 22-MAR-2023 04:41

Client ID:

Instrument: nt10.i

Sample Info: SLC0452-CCV1

Volume Injected (uL): 1.0

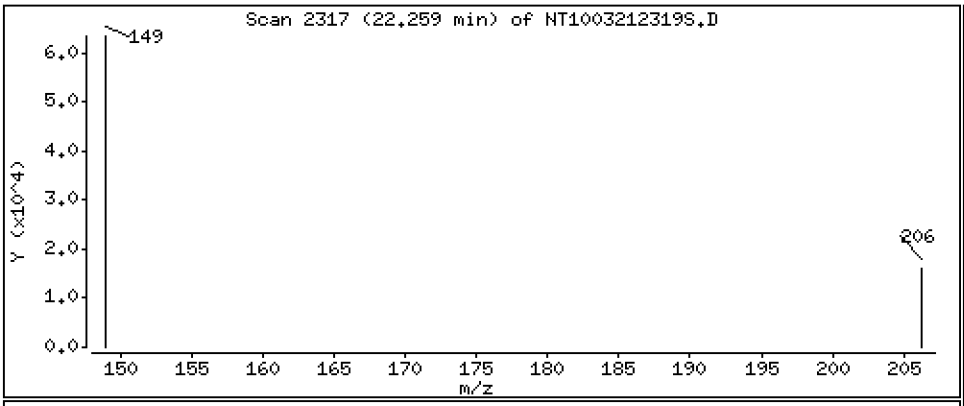
Operator: JGR

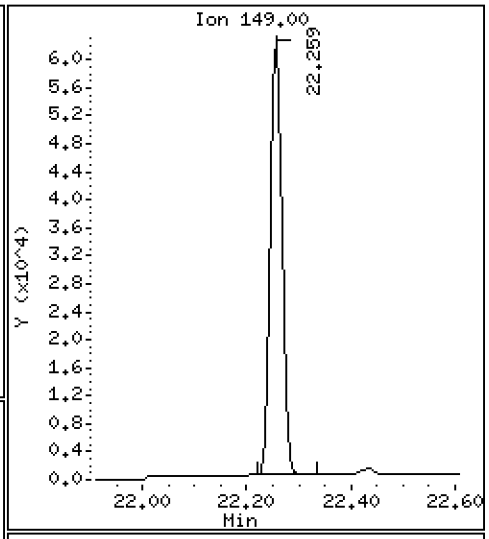
Column phase: ZB-5msi

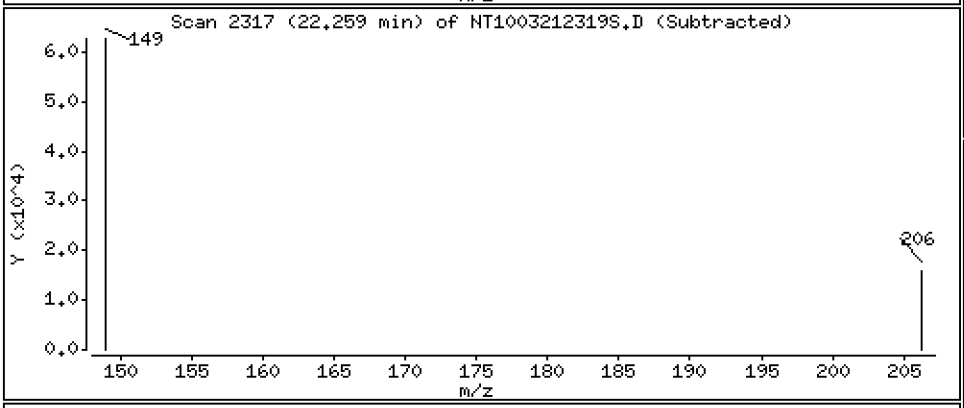
Column diameter: 0.25

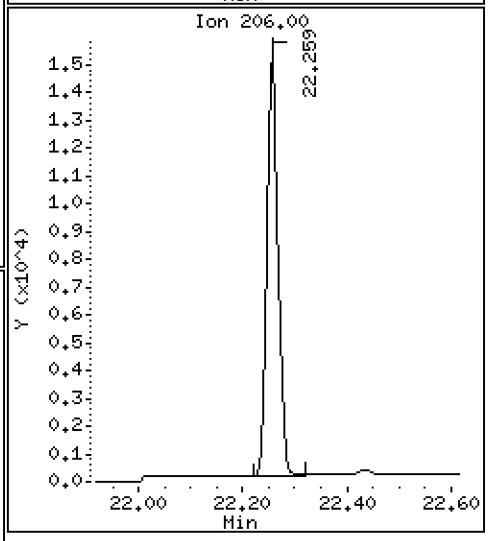
67 Butylbenzylphthalate

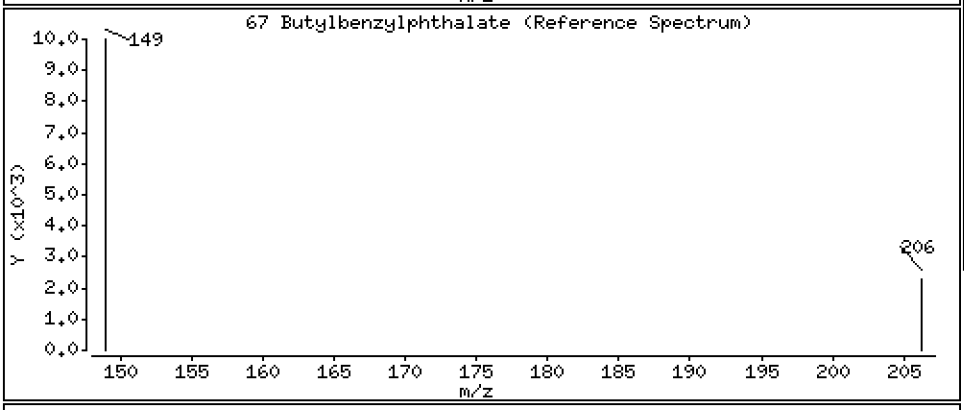
Concentration: 1.264 ug/L

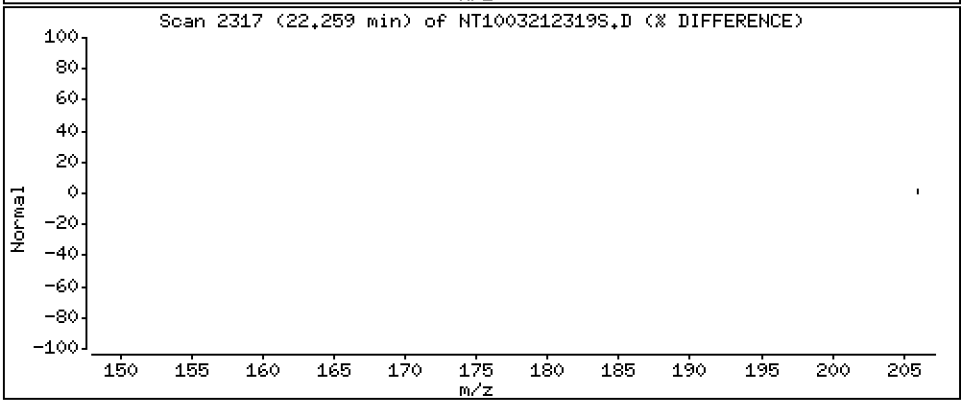












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Date : 22-MAR-2023 04:41

Client ID:

Instrument: nt10.i

Sample Info: SLC0452-CCV1

Volume Injected (uL): 1.0

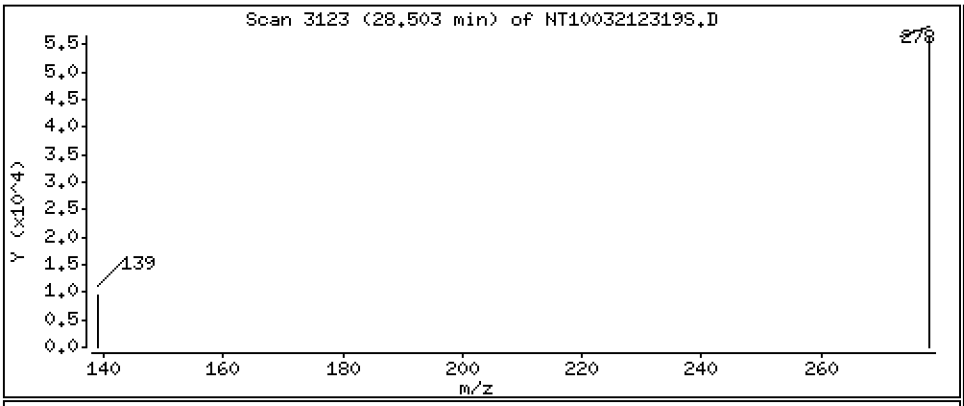
Operator: JGR

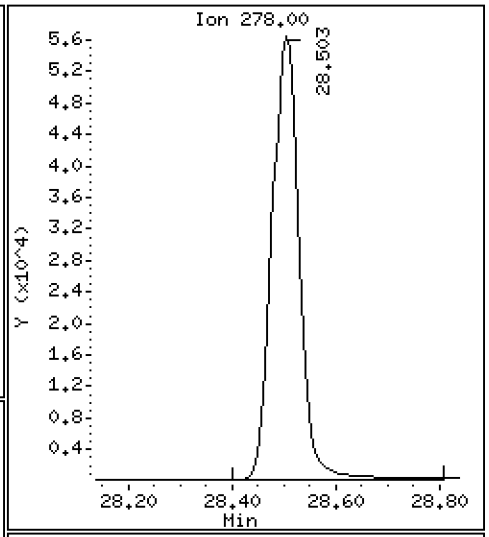
Column phase: ZB-5msi

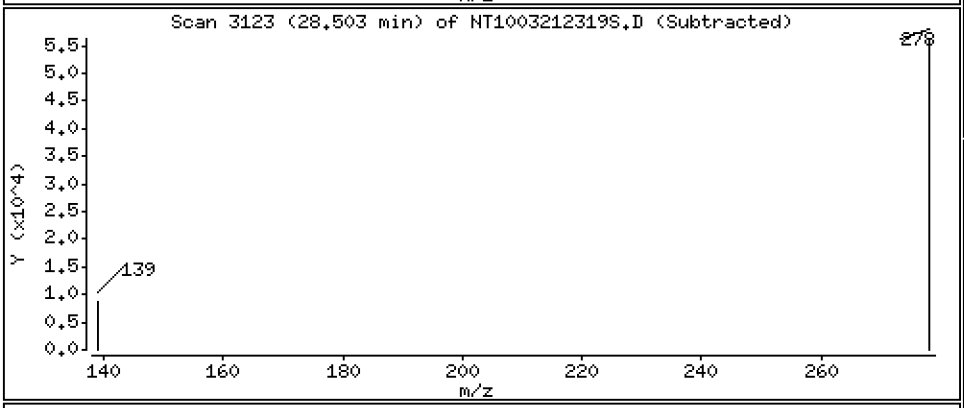
Column diameter: 0.25

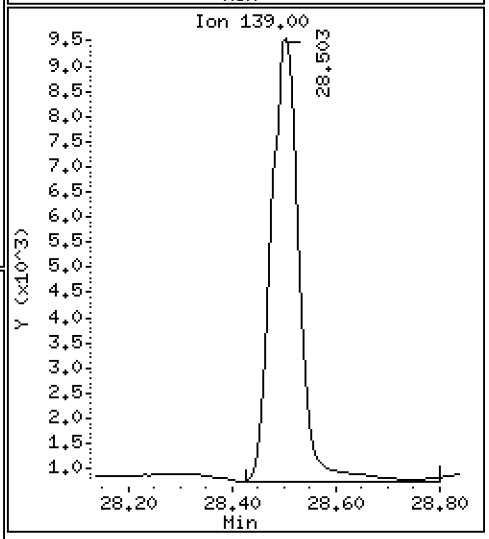
79 Dibenzo(a,h)anthracene

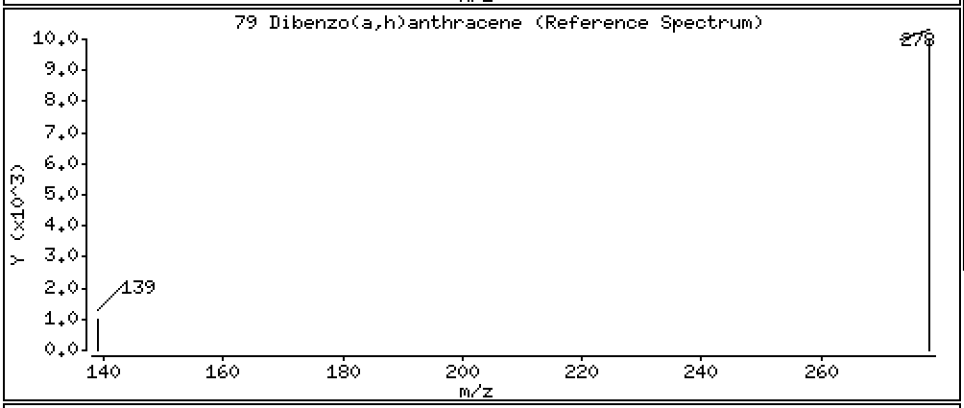
Concentration: 0.9782 ug/L

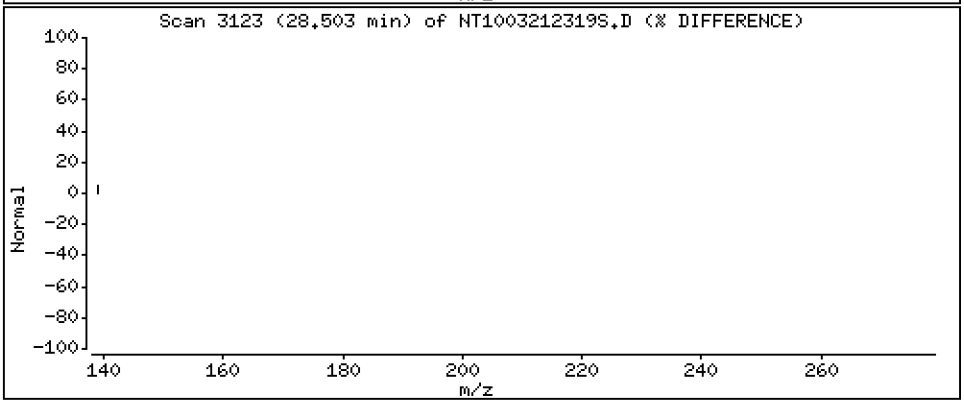












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT10032123195.D

Date : 22-MAR-2023 04:41

Client ID:

Instrument: nt10.i

Sample Info: SLC0452-CCV1

Volume Injected (uL): 1.0

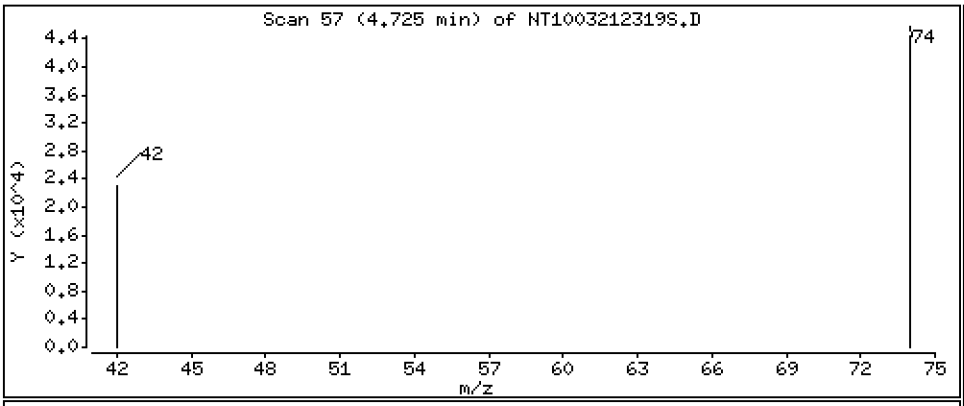
Operator: JGR

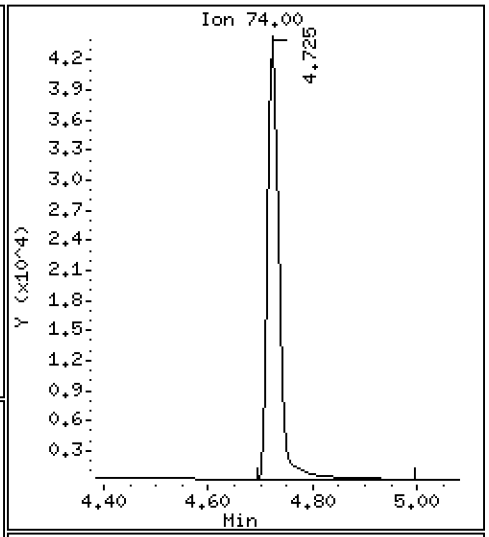
Column phase: ZB-5msi

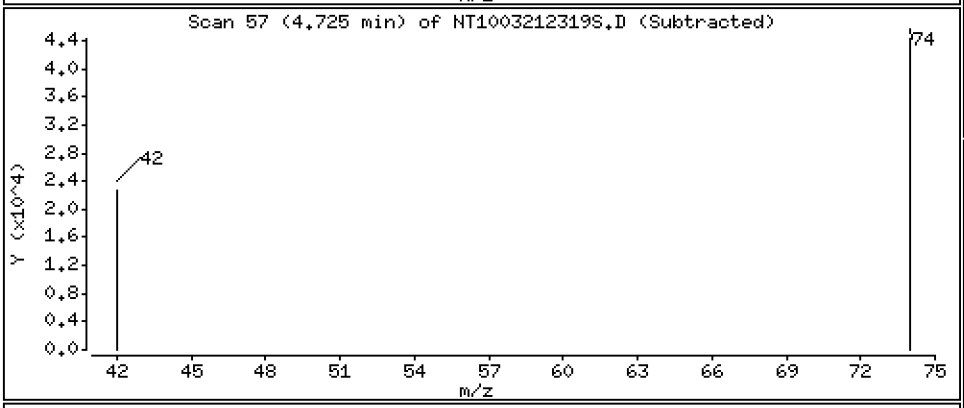
Column diameter: 0.25

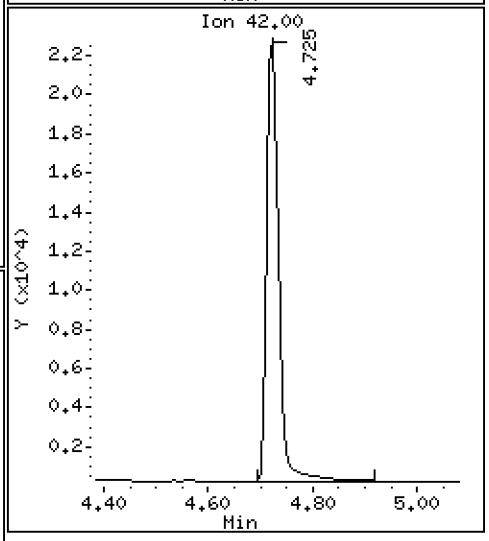
90 N-Nitrosodimethylamine

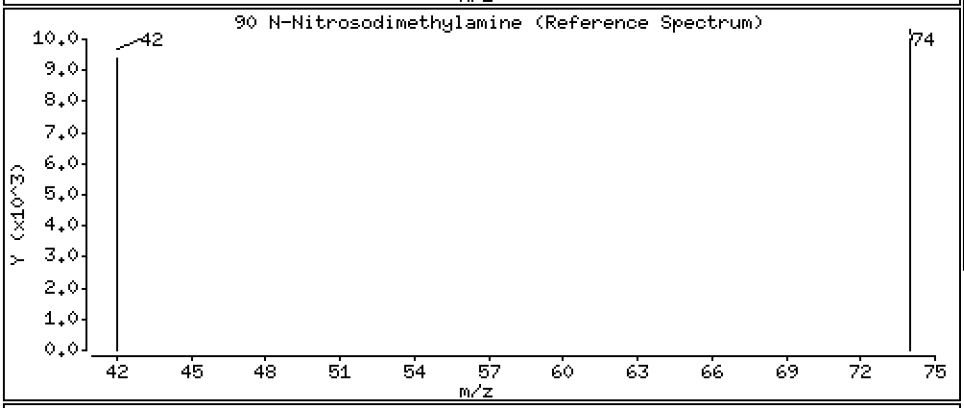
Concentration: 2.030 ug/L

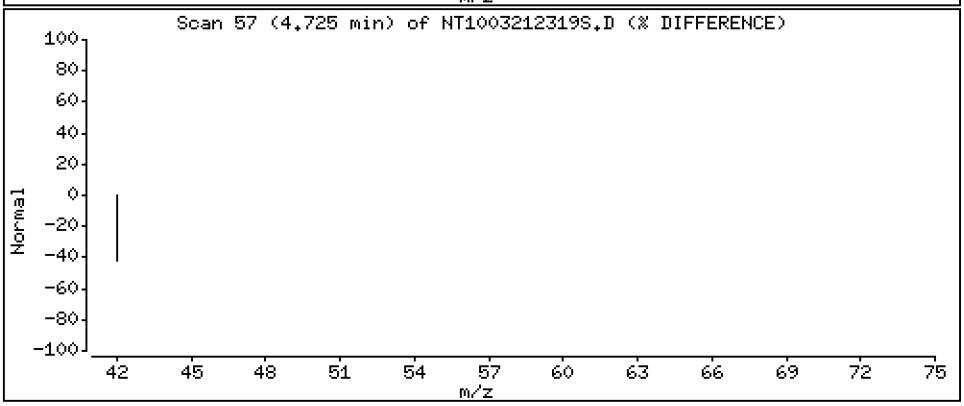












ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212319S.D
Lab Smp Id: SLC0452-CCV1
Inj Date : 22-MAR-2023 04:41 MS Autotune Date: 16-JAN-2023 17:42
Operator : JGR Inst ID: nt10.i
Smp Info : SLC0452-CCV1
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230321.b\20230321.b\SIMABN2.m
Meth Date : 29-Mar-2023 09:55 van Quant Type: ISTD
Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D
Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
$ 1	2-Fluorophenol	112	6.880	6.895	(0.756)	81070	1.62452	1.625(R)
3	Phenol	94	8.487	8.494	(0.933)	68593	1.00187	1.002
7	1,3-Dichlorobenzene	146	9.035	9.043	(0.993)	65971	1.02975	1.030
* 8	1,4-Dichlorobenzene-d4	152	9.098	9.105	(1.000)	164566	4.00000	
9	1,4-Dichlorobenzene	146	9.129	9.136	(1.003)	63366	1.02461	1.025
11	Benzyl alcohol	79	9.369	9.377	(1.030)	38631	0.97328	0.9733
12	1,2-Dichlorobenzene	146	9.486	9.493	(1.043)	62950	1.03502	1.035
13	2-Methylphenol	108	9.594	9.602	(1.055)	50516	1.06484	1.065
15	4-Methylphenol	108	9.858	9.874	(1.084)	53674	1.08881	1.089
16	N-Nitroso-di-n-propylamine	70	9.920	9.936	(1.090)	34598	0.99242	0.9924
22	2,4-Dimethylphenol	107	10.906	10.914	(0.943)	96401	1.92452	1.925
24	Benzoic acid	105	11.033	11.042	(0.954)	126815	4.54862	4.549
26	1,2,4-Trichlorobenzene	180	11.485	11.500	(0.993)	54702	1.08557	1.086
* 27	Naphthalene-d8	136	11.570	11.585	(1.000)	579506	4.00000	
30	Hexachlorobutadiene	225	11.971	11.987	(1.035)	33067	1.07935	1.079
39	Dimethylphthalate	163	14.680	14.695	(0.968)	109474	1.19625	1.196
* 42	Acenaphthene-d10	162	15.167	15.183	(1.000)	289996	4.00000	
50	Diethylphthalate	149	16.126	16.141	(1.063)	116934	1.23342	1.233
54	N-Nitrosodiphenylamine	169	16.512	16.520	(0.908)	87390	1.12482	1.125
57	Hexachlorobenzene	284	17.569	17.584	(0.966)	40984	1.17839	1.178

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	58 Pentachlorophenol	266	17.933	17.941	(0.986)	41191	2.11963	2.120
*	59 Phenanthrene-d10	188	18.188	18.196	(1.000)	579070	4.00000	
$	66 Terphenyl-d14	244	21.330	21.337	(0.918)	90646	1.02051	1.021(R)
	67 Butylbenzylphthalate	149	22.259	22.259	(0.958)	91793	1.26364	1.264
*	69 Chrysene-d12	240	23.227	23.234	(1.000)	545150	4.00000	
*	77 Perylene-d12	264	25.843	25.836	(1.000)	650069	4.00000	
	79 Dibenzo(a,h)anthracene	278	28.503	28.487	(1.103)	207572	0.97815	0.9782
	90 N-Nitrosodimethylamine	74	4.724	4.732	(0.519)	64267	2.03050	2.030

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i Calibration Date: 21-MAR-2023
Lab File ID: NT1003212319S.D Calibration Time: 18:25
Lab Smp Id: SLC0452-CCV1
Analysis Type: SV Level: LOW
Quant Type: ISTD Sample Type: AIR
Operator: JGR
Method File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\SIMABN2.m
Misc Info:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	162628	81314	325256	164566	1.19
27 Naphthalene-d8	580280	290140	1160560	579506	-0.13
42 Acenaphthene-d10	297255	148628	594510	289996	-2.44
59 Phenanthrene-d10	561093	280547	1122186	579070	3.20
69 Chrysene-d12	498827	249414	997654	545150	9.29
77 Perylene-d12	558480	279240	1116960	650069	16.40

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.11	8.61	9.61	9.10	-0.08
27 Naphthalene-d8	11.59	11.09	12.09	11.57	-0.13
42 Acenaphthene-d10	15.18	14.68	15.68	15.17	-0.10
59 Phenanthrene-d10	18.20	17.70	18.70	18.19	-0.04
69 Chrysene-d12	23.23	22.73	23.73	23.23	-0.03
77 Perylene-d12	25.84	25.34	26.34	25.84	0.03

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

REVIEW SUMMARY FOR FILE - NT1003212319S.D

Lab ID: SLC0452-CCV1
nt10.i, 20230321.b\20230321.b\SIMABN2.m,   22-MAR-2023 04:41

RT	CO-ELUTION COMPOUNDS
NO CO-ELUTIONS	

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
NONE			

RRT check based on Ccal File: 20230321.b/NT1003212303S.D

On Column LOD for nt10.i, 20230321.b\SIMABN2.m, PSDDA.sub = 0.0000

Exception: 1,2,4-Trichlorobenzene 0.0010

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

Analytical Resources, LLC
Analytical Chemists and Consultants

LOW-CONCENTRATION
CONTINUING CALIBRATION CHECK
EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	NT10	Calibration:	GC00049
Lab File ID:	NT1003212305S.D	Calibration Date:	03/15/2023
Sequence:	SLC0452	Injection Date:	03/21/23
Lab Sample ID:	SLC0452-LCV1	Injection Time:	19:43
Sequence Name:	ABN 0.1		

		CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
1,4-Dichlorobenzene	A	0.10000	0.1	1.5031980	1.6439210		9.4	
1,2-Dichlorobenzene	A	0.10000	0.1	1.4783140	1.6013770		8.3	
Benzyl Alcohol	A	0.10000	0.07	0.9647610	0.6721002		-30.3	
Benzoic acid	A	0.40000	0.07	0.1358970	0.0340339		-82.0	
2,4-Dimethylphenol	A	0.20000	0.2	0.3457498	0.3046178		-11.9	
1,2,4-Trichlorobenzene	A	0.10000	0.1	0.3478148	0.3825021		10.0	
N-Nitrosodiphenylamine	A	0.10000	0.1	0.5366720	0.5324362		-0.8	
Pentachlorophenol	A	0.20000	0.1	0.0934250	0.0653370		-50.8	
2-Fluorophenol	A	0.15000	0.142	1.2129820	1.1478920		-5.4	
p-Terphenyl-d14	A	0.10000	0.0940	0.6517430	0.6124584		-6.0	

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT10032123058.D

Date : 21-MAR-2023 19:43

Client ID:

Instrument: nt10.i

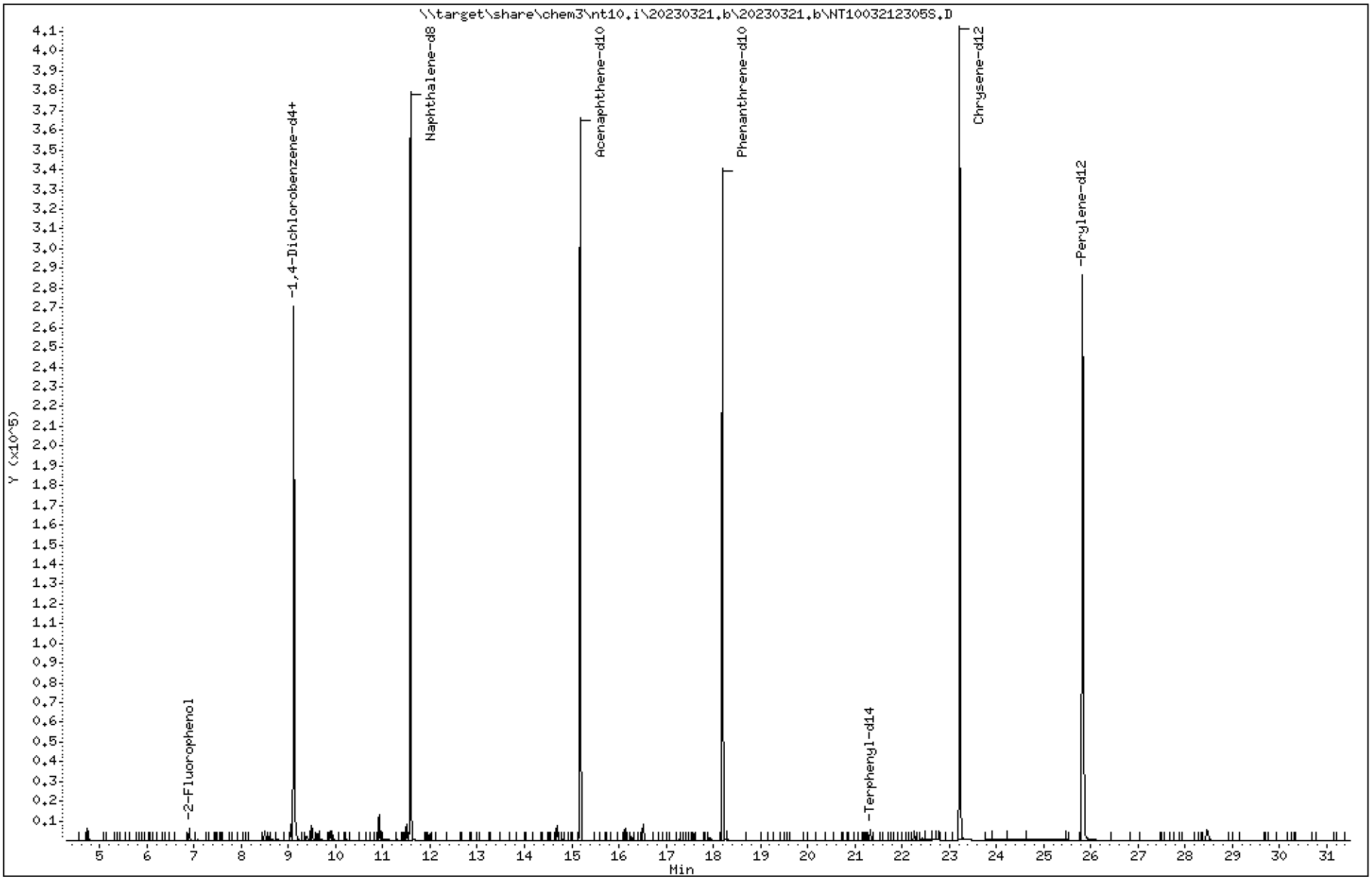
Sample Info: SLC0452-LCV1

Volume Injected (uL): 1.0

Operator: JGR

Column phase: ZB-5msi

Column diameter: 0.25



Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212305S.D

Date : 21-MAR-2023 19:43

Client ID:

Instrument: nt10.i

Sample Info: SLC0452-LCV1

Volume Injected (uL): 1.0

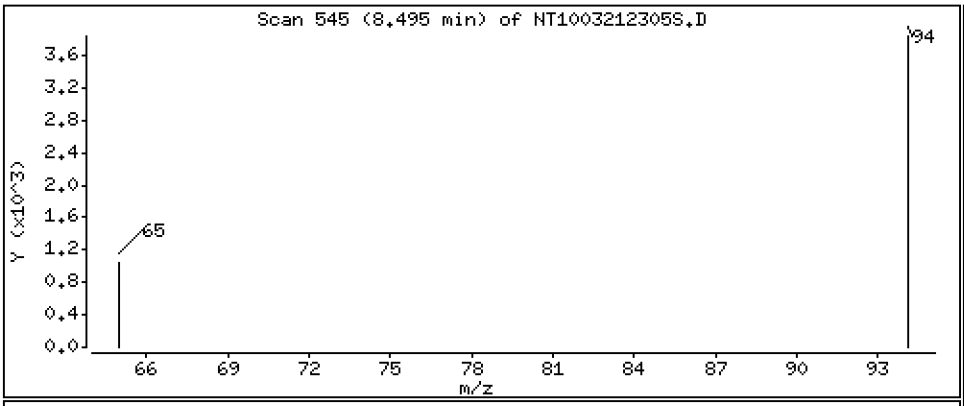
Operator: JGR

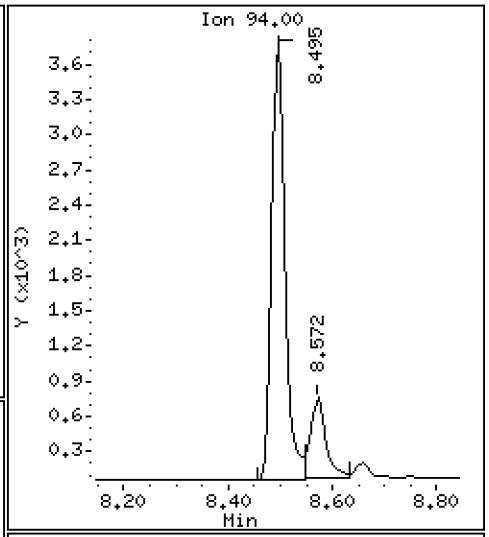
Column phase: ZB-5msi

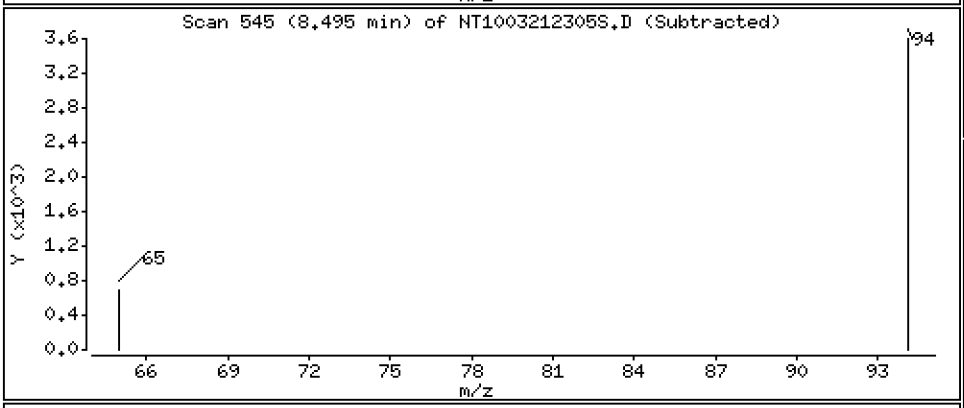
Column diameter: 0.25

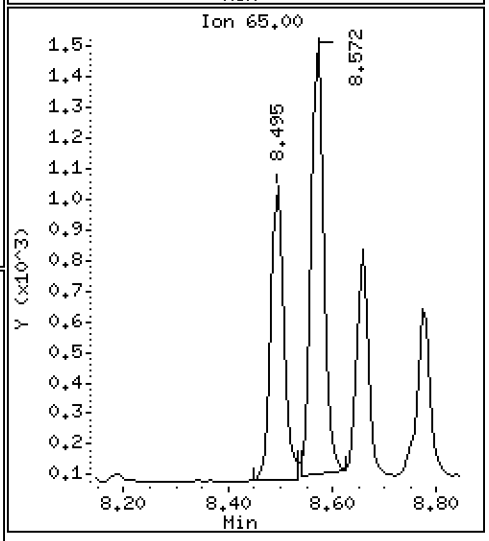
3 Phenol

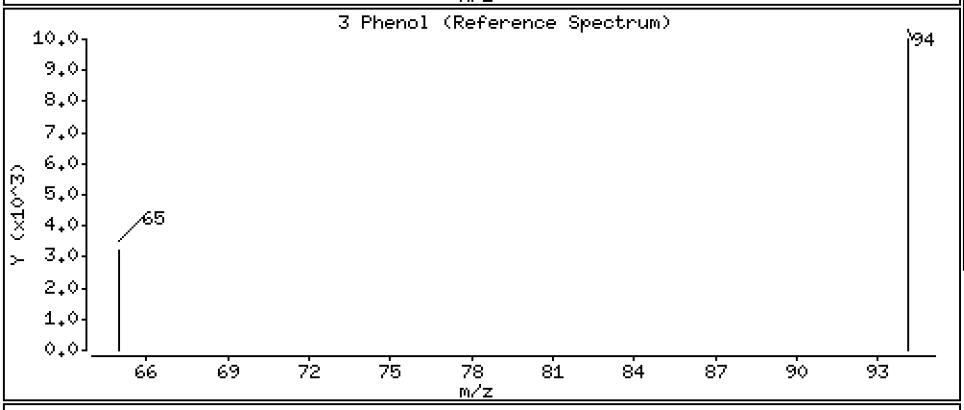
Concentration: 0.09090 ug/L

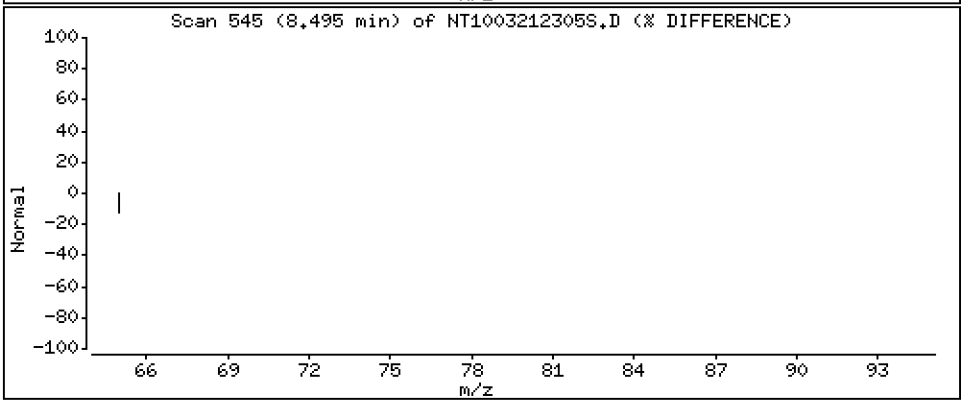












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212305S.D

Date : 21-MAR-2023 19:43

Client ID:

Instrument: nt10.i

Sample Info: SLC0452-LCV1

Volume Injected (uL): 1.0

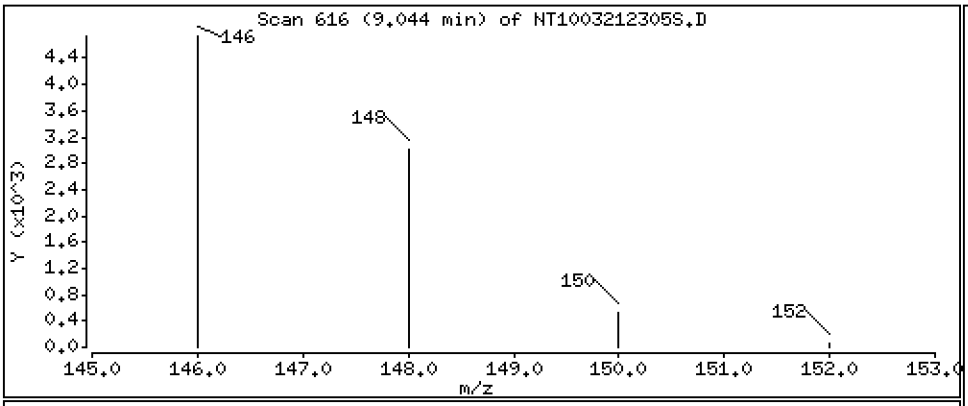
Operator: JGR

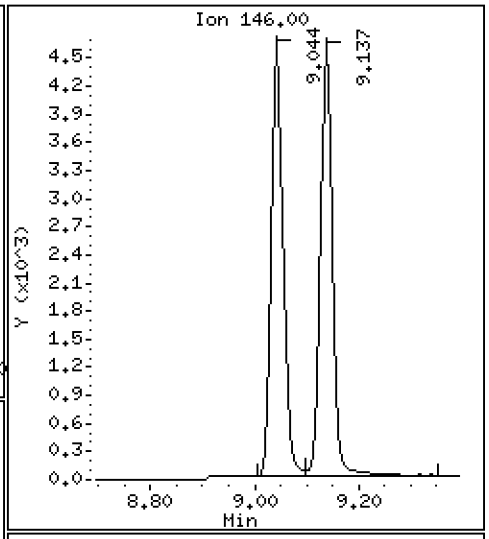
Column phase: ZB-5msi

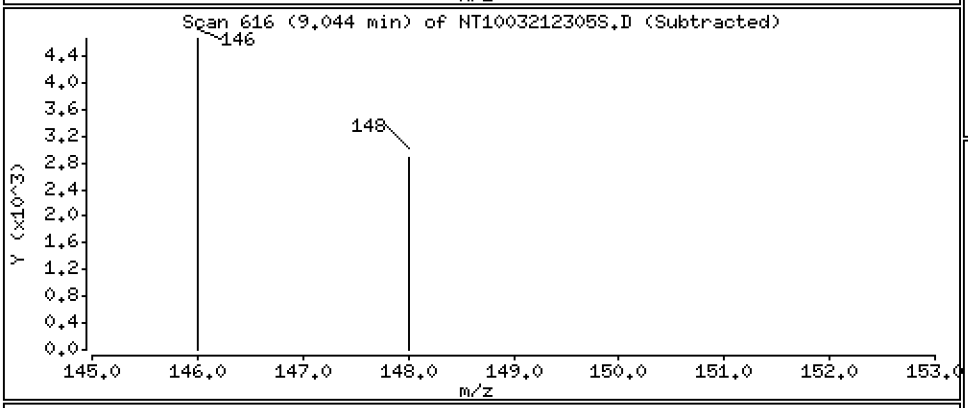
Column diameter: 0.25

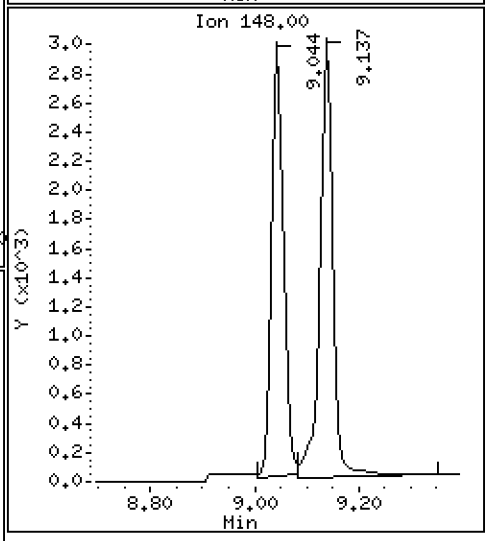
7 1,3-Dichlorobenzene

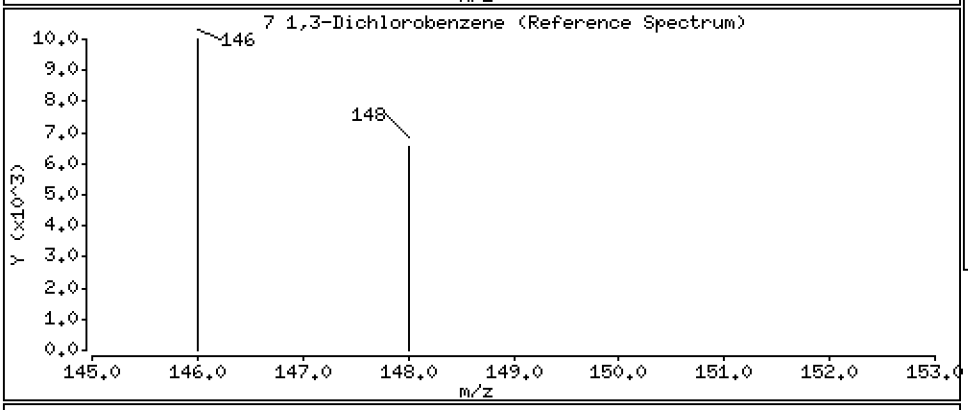
Concentration: 0.1091 ug/L

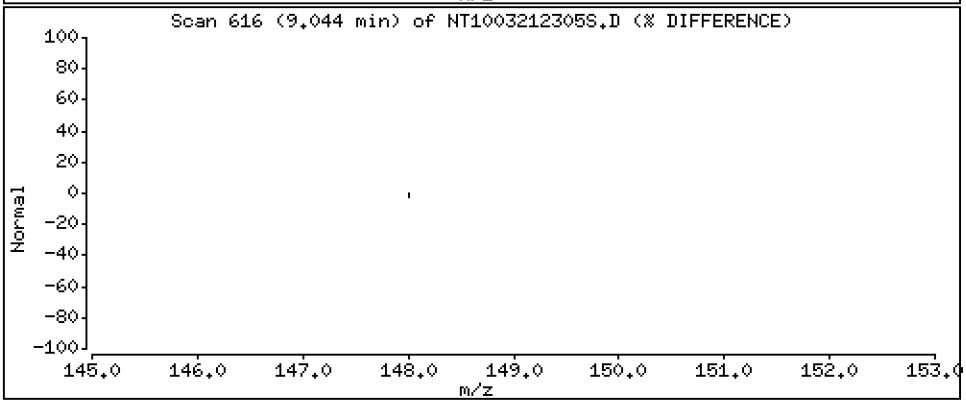












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212305S.D

Date : 21-MAR-2023 19:43

Client ID:

Instrument: nt10.i

Sample Info: SLC0452-LCV1

Volume Injected (uL): 1.0

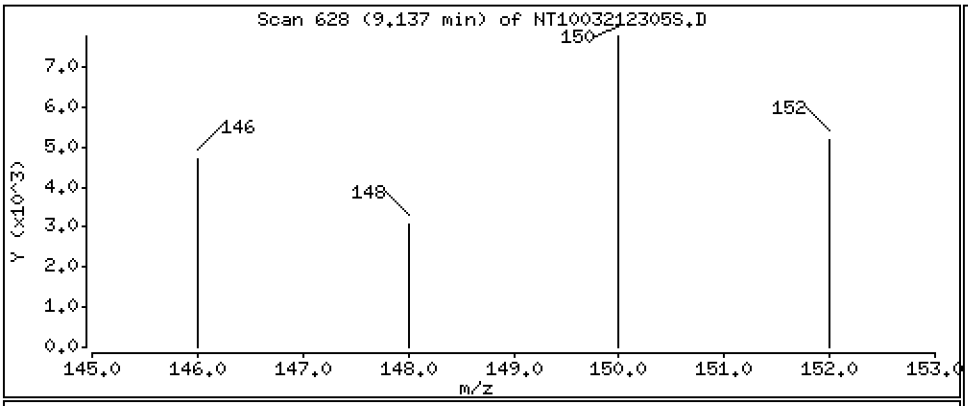
Operator: JGR

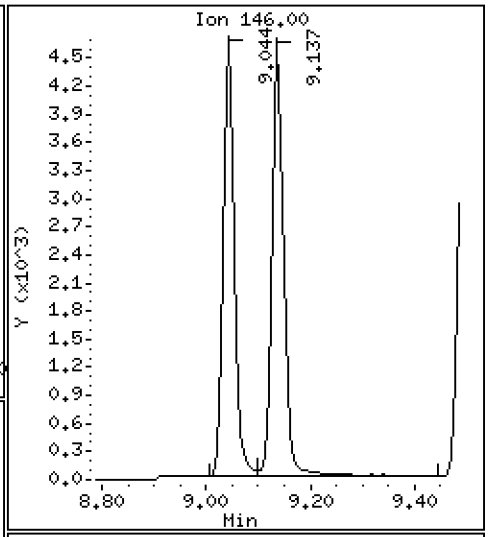
Column phase: ZB-5msi

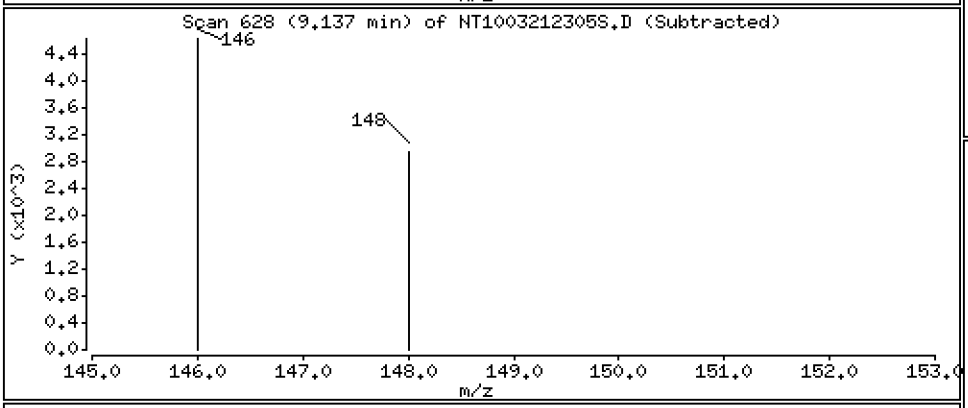
Column diameter: 0.25

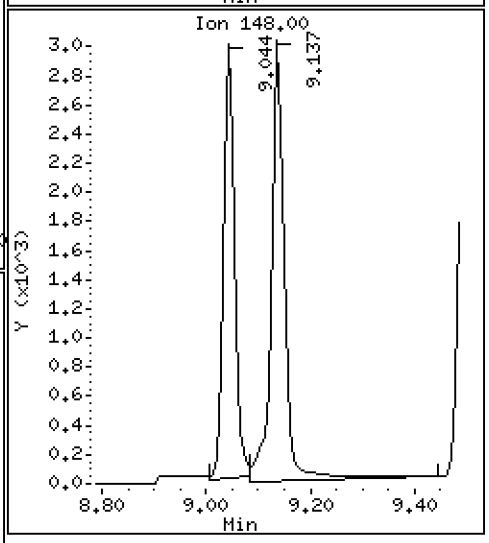
9 1,4-Dichlorobenzene

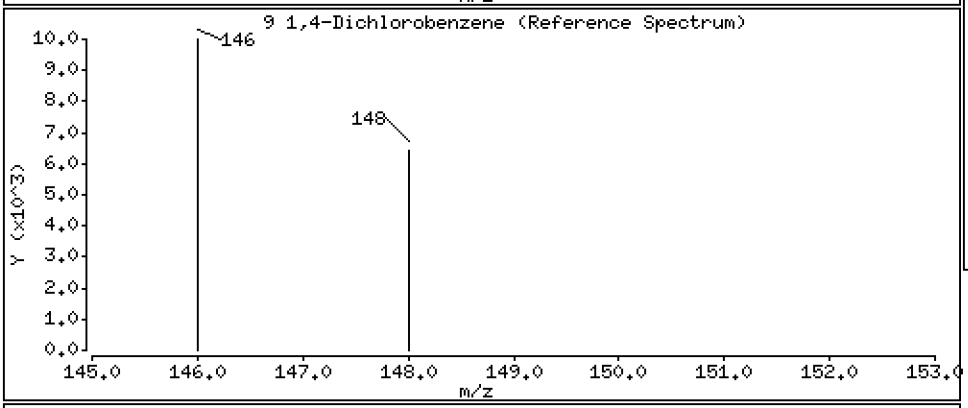
Concentration: 0.1094 ug/L

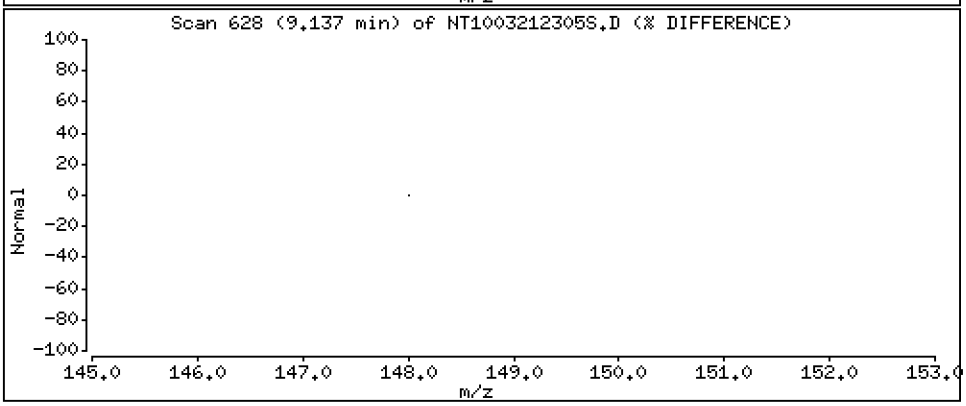












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212305S.D

Date : 21-MAR-2023 19:43

Client ID:

Instrument: nt10.i

Sample Info: SLC0452-LCV1

Volume Injected (uL): 1.0

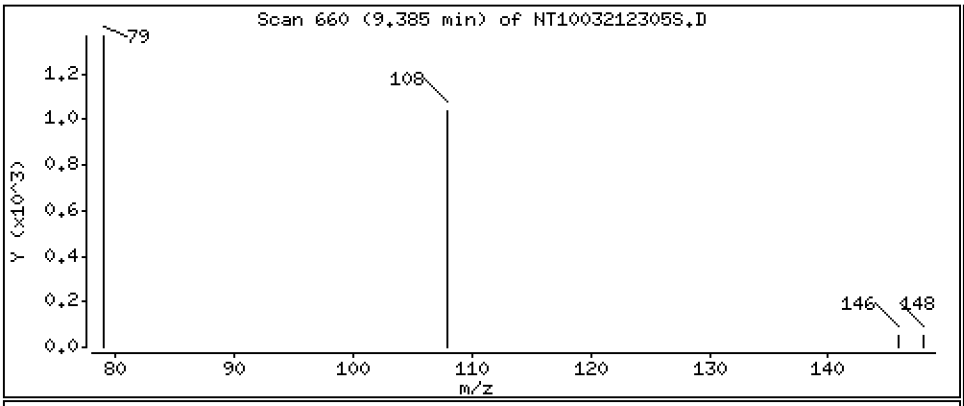
Operator: JGR

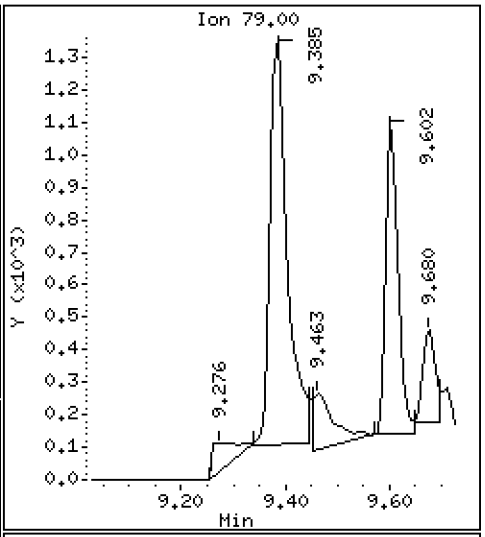
Column phase: ZB-5msi

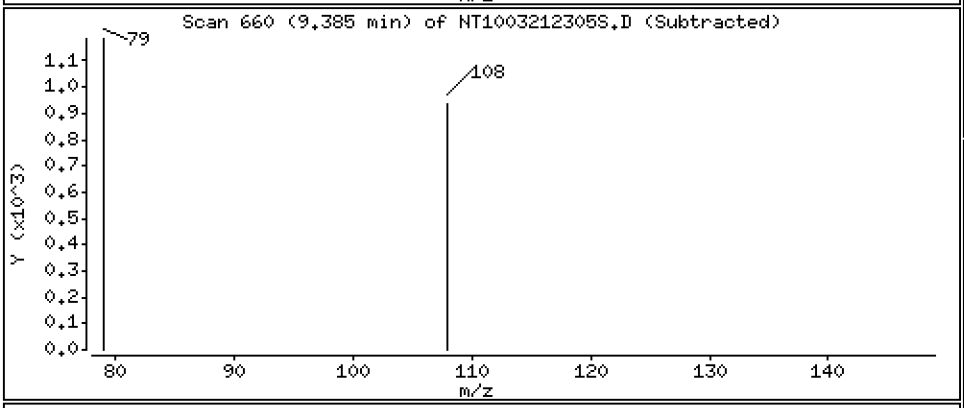
Column diameter: 0.25

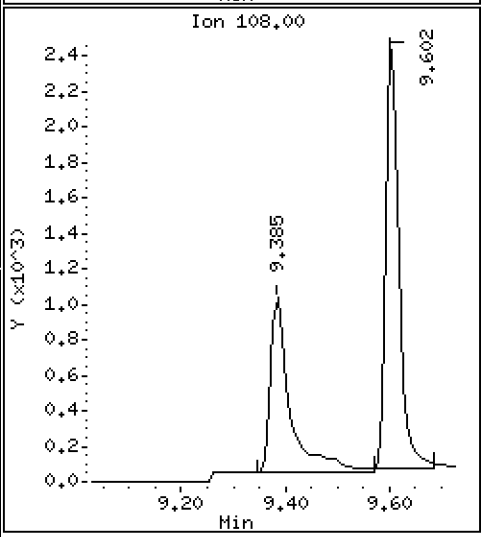
11 Benzyl alcohol

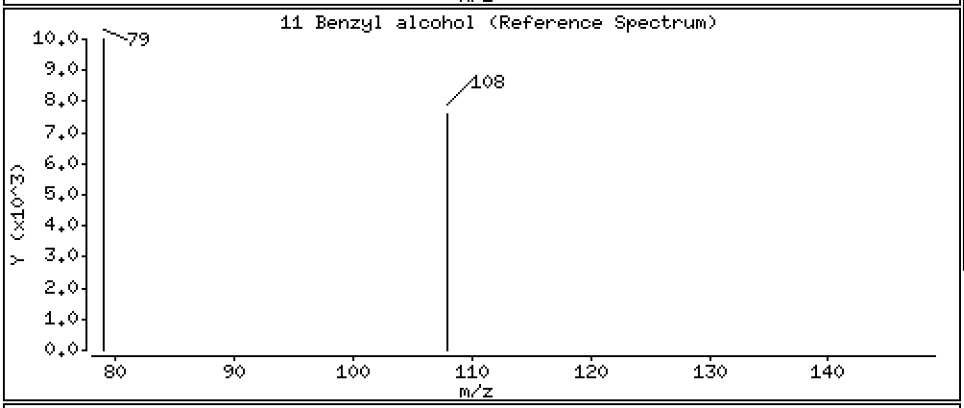
Concentration: 0.06966 ug/L

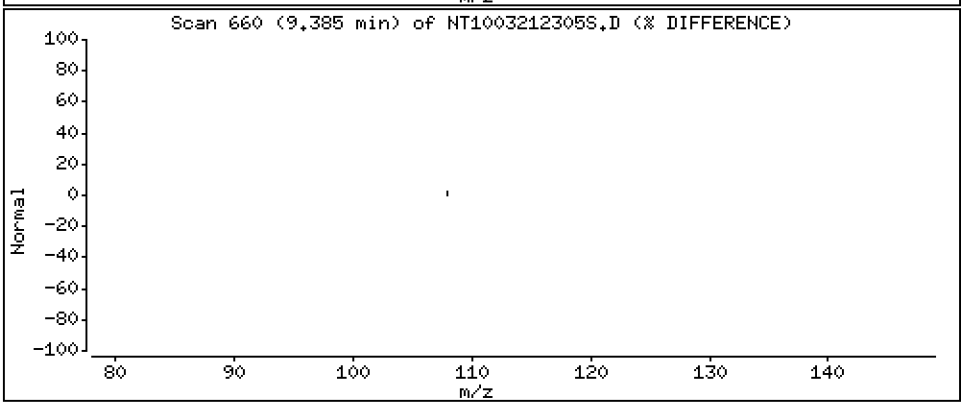












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212305S.D

Date : 21-MAR-2023 19:43

Client ID:

Instrument: nt10.i

Sample Info: SLC0452-LCV1

Volume Injected (uL): 1.0

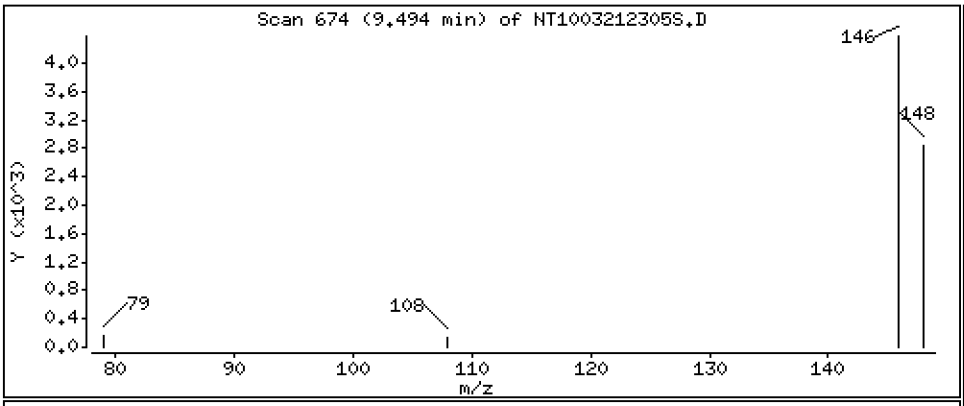
Operator: JGR

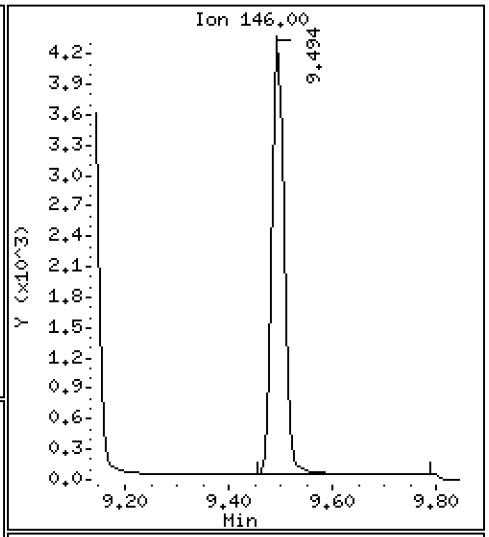
Column phase: ZB-5msi

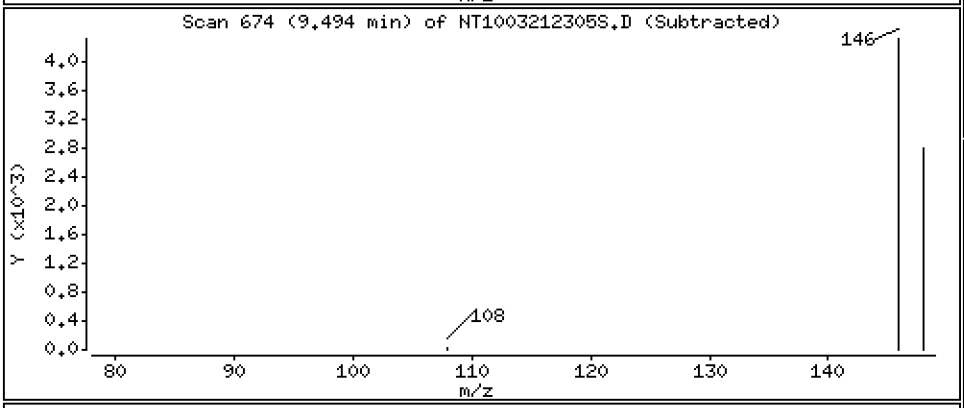
Column diameter: 0.25

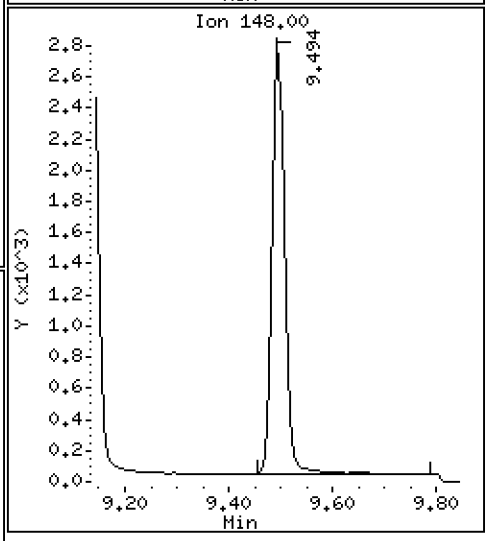
12 1,2-Dichlorobenzene

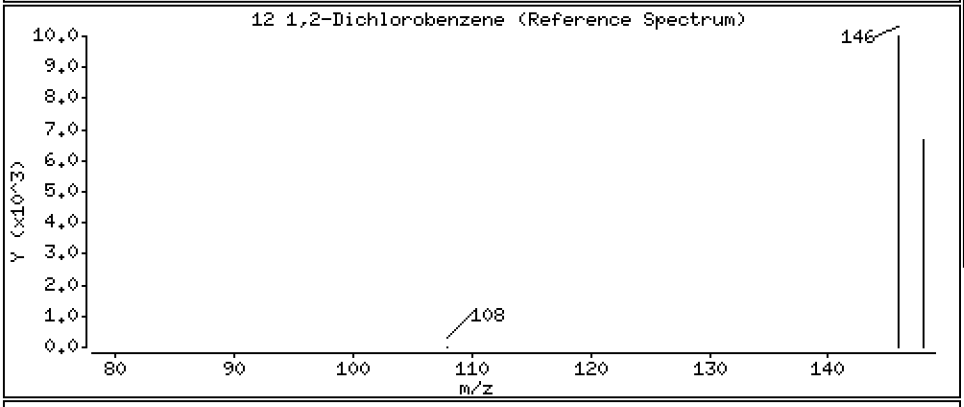
Concentration: 0.1083 ug/L

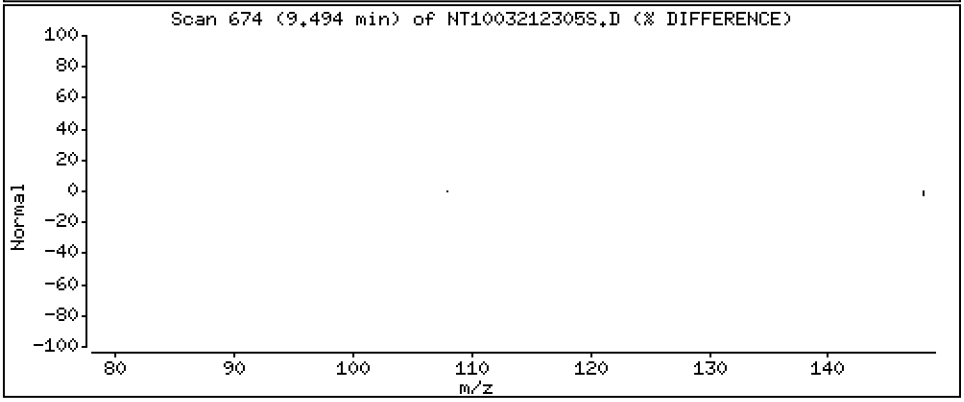












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212305S.D

Date : 21-MAR-2023 19:43

Client ID:

Instrument: nt10.i

Sample Info: SLC0452-LCV1

Volume Injected (uL): 1.0

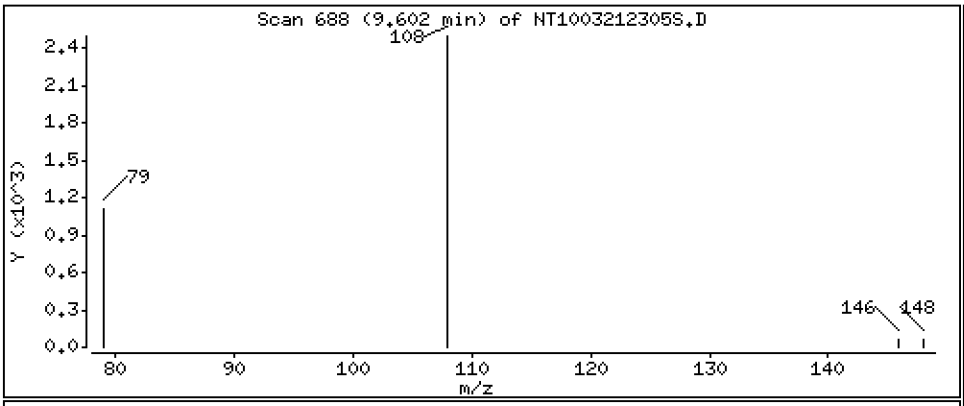
Operator: JGR

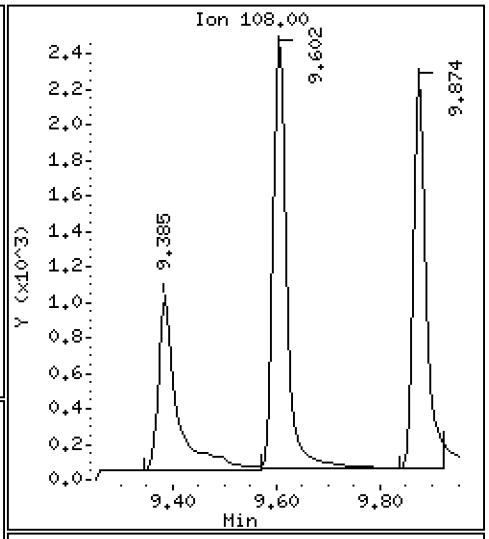
Column phase: ZB-5msi

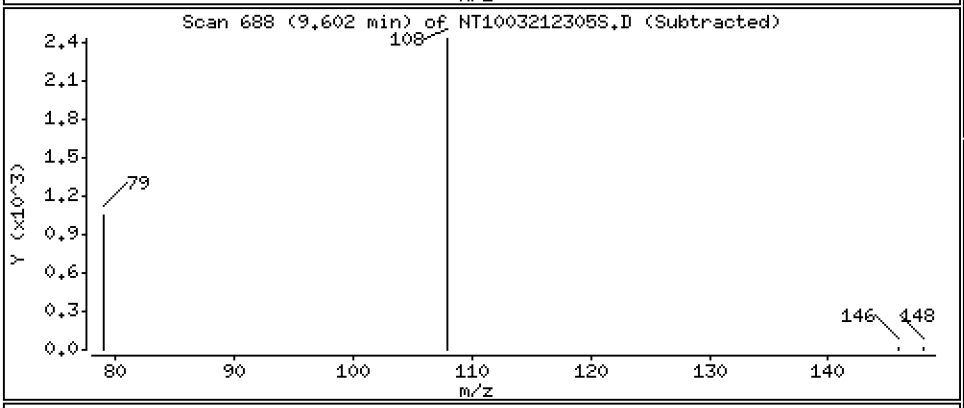
Column diameter: 0.25

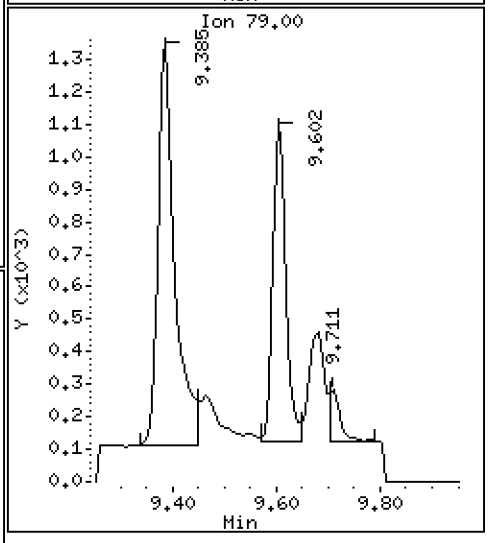
13 2-Methylphenol

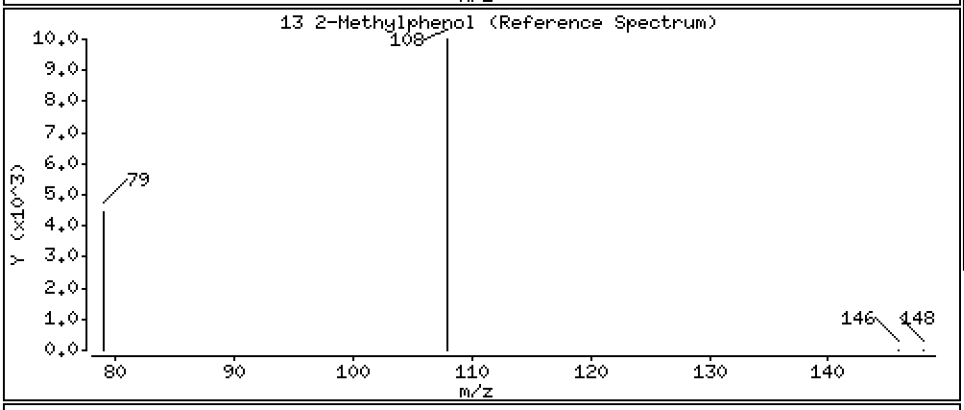
Concentration: 0.08880 ug/L

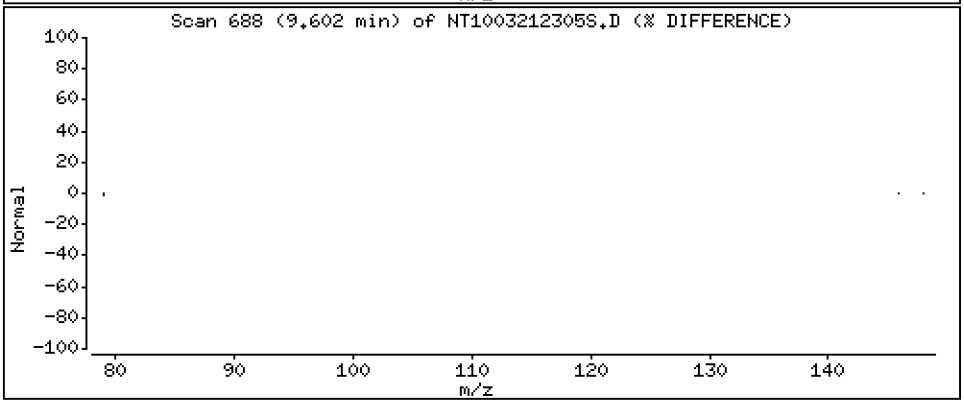












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212305S.D

Date : 21-MAR-2023 19:43

Client ID:

Instrument: nt10.i

Sample Info: SLC0452-LCV1

Volume Injected (uL): 1.0

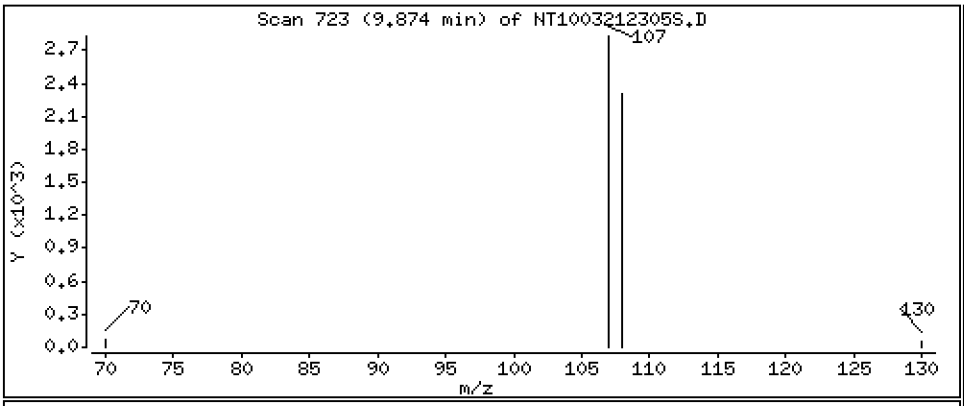
Operator: JGR

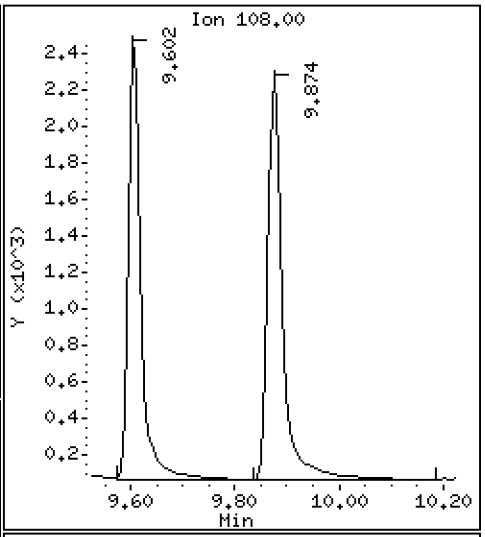
Column phase: ZB-5msi

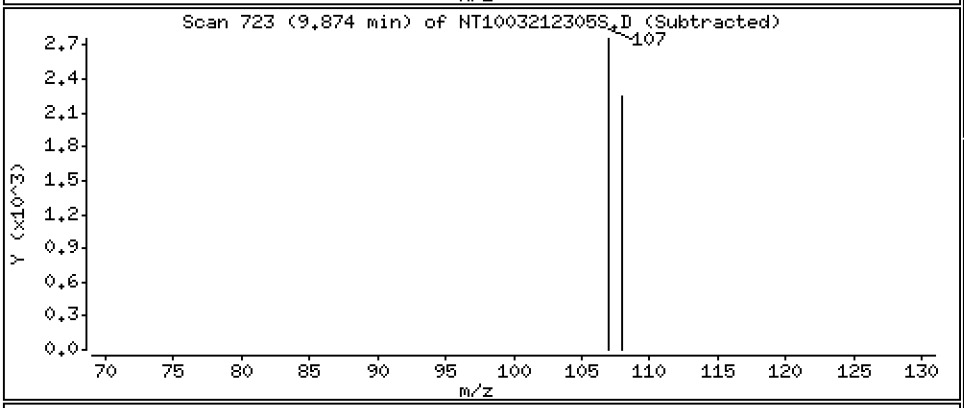
Column diameter: 0.25

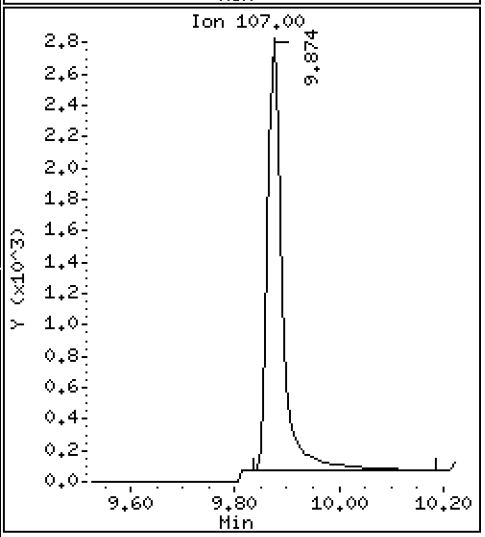
15 4-Methylphenol

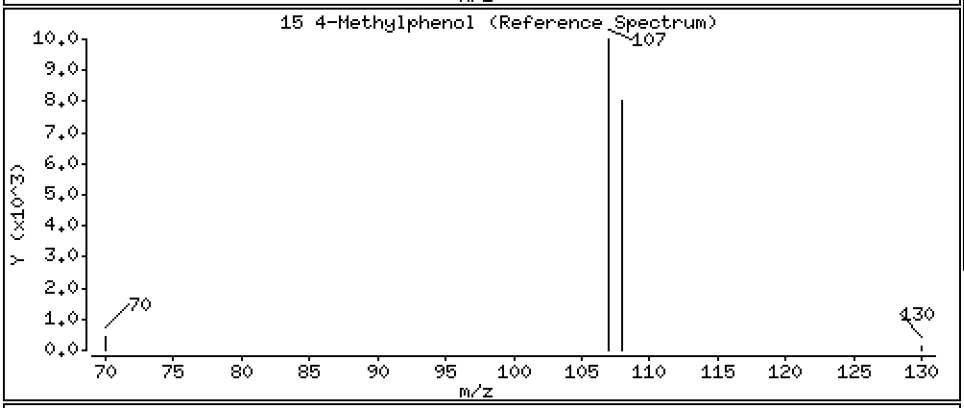
Concentration: 0.08456 ug/L

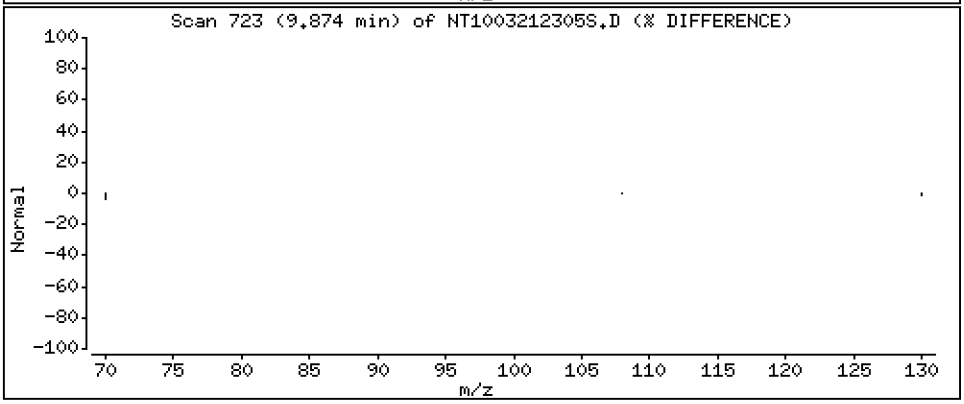












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Date : 21-MAR-2023 19:43

Client ID:

Instrument: nt10.i

Sample Info: SLC0452-LCV1

Volume Injected (uL): 1.0

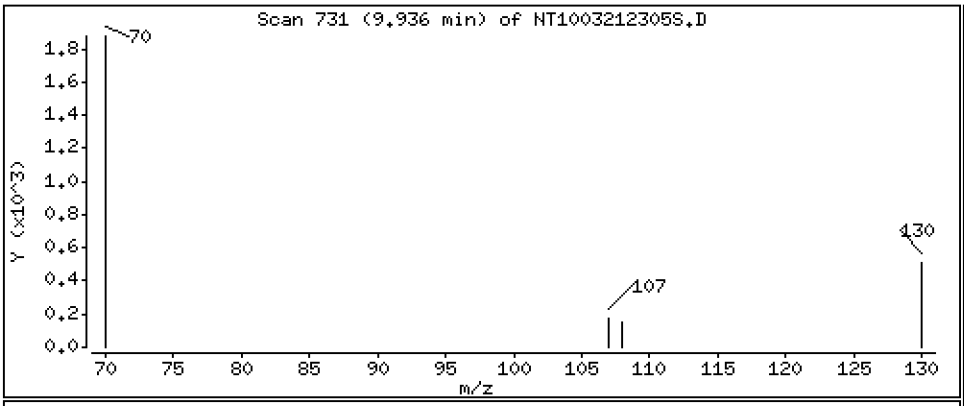
Operator: JGR

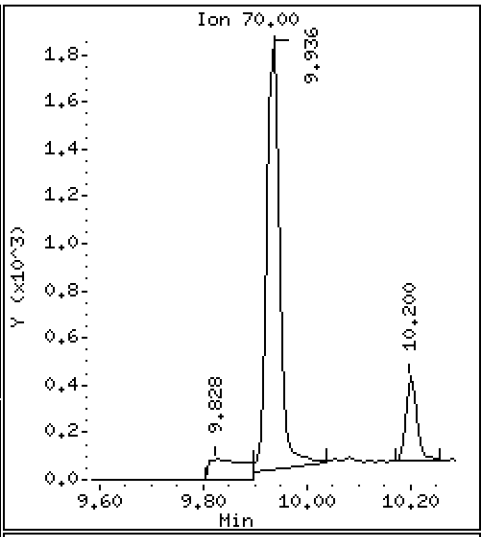
Column phase: ZB-5msi

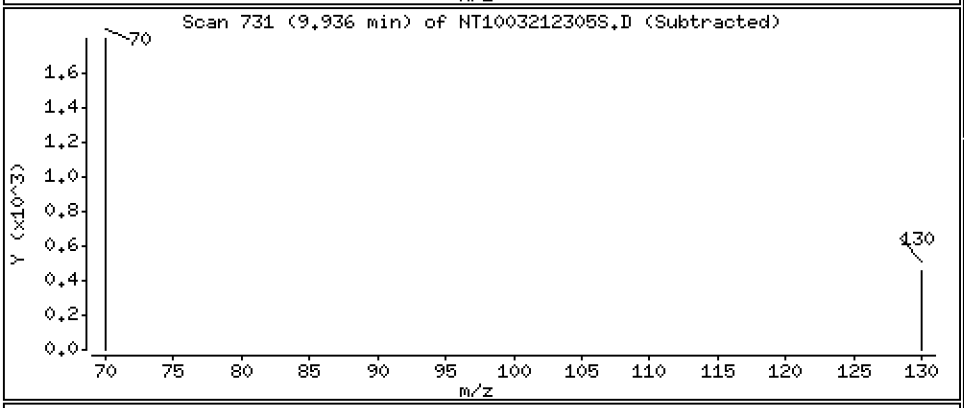
Column diameter: 0.25

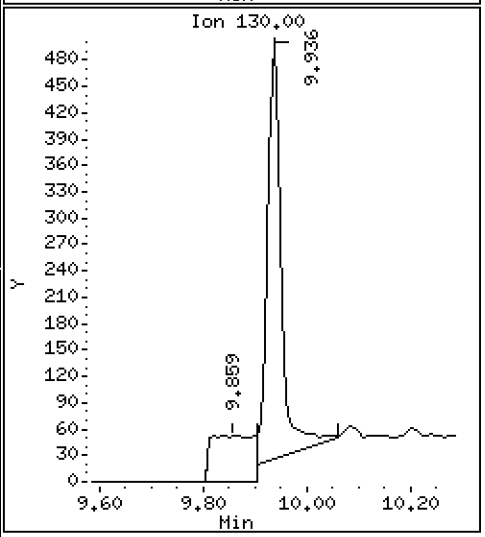
16 N-Nitroso-di-n-propylamine

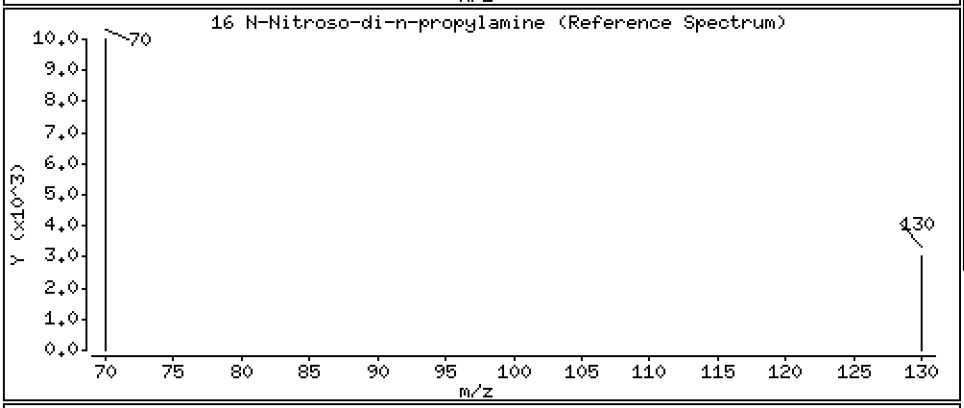
Concentration: 0.08386 ug/L

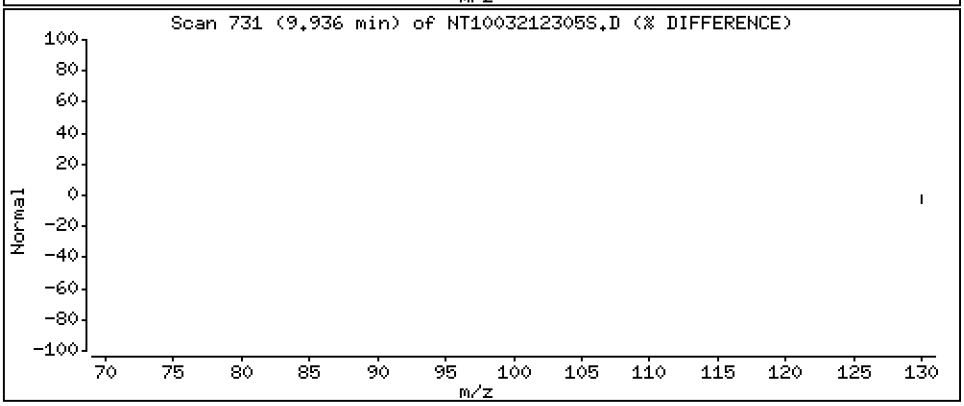












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Date : 21-MAR-2023 19:43

Client ID:

Instrument: nt10.i

Sample Info: SLC0452-LCV1

Volume Injected (uL): 1.0

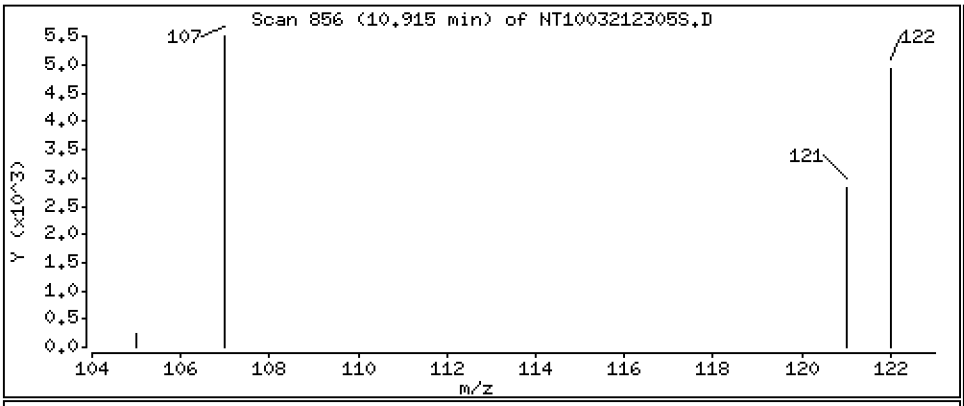
Operator: JGR

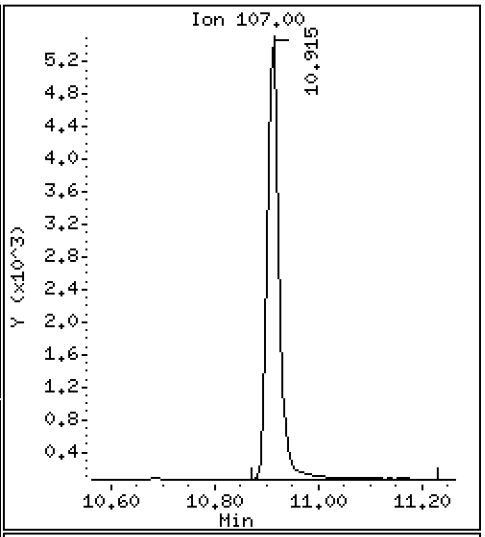
Column phase: ZB-5msi

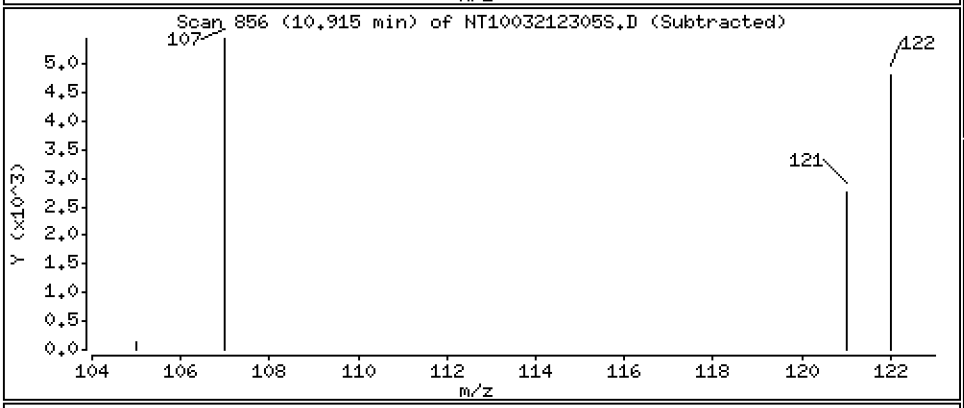
Column diameter: 0.25

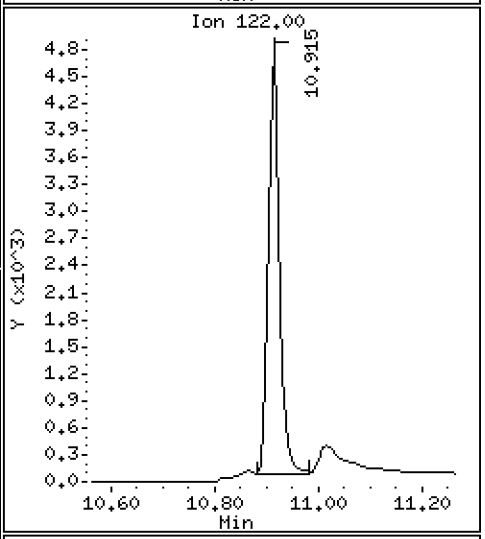
22 2,4-Dimethylphenol

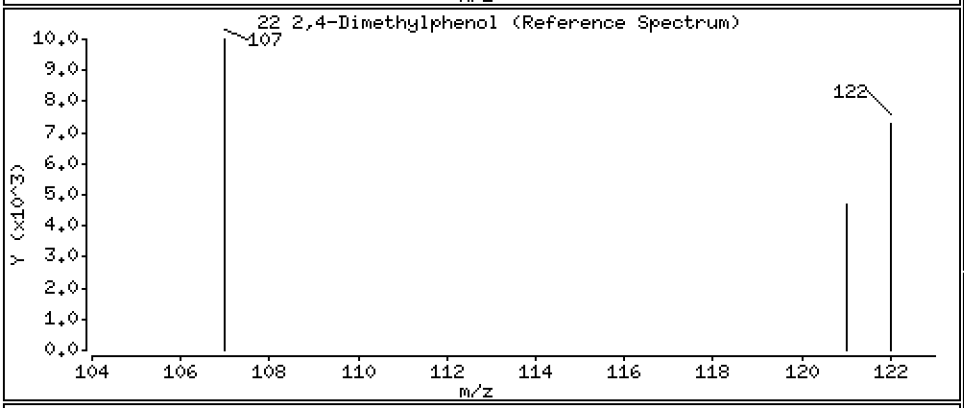
Concentration: 0.1762 ug/L

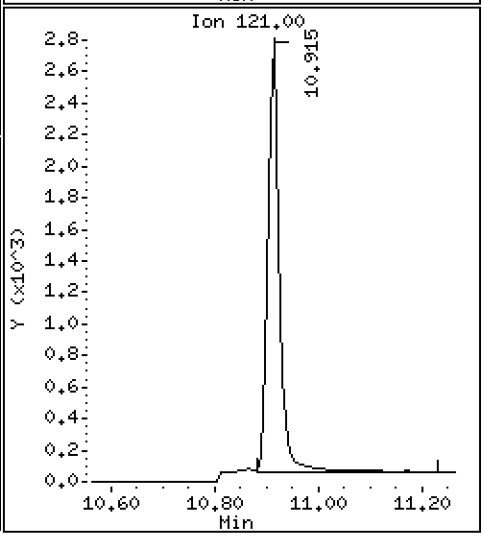


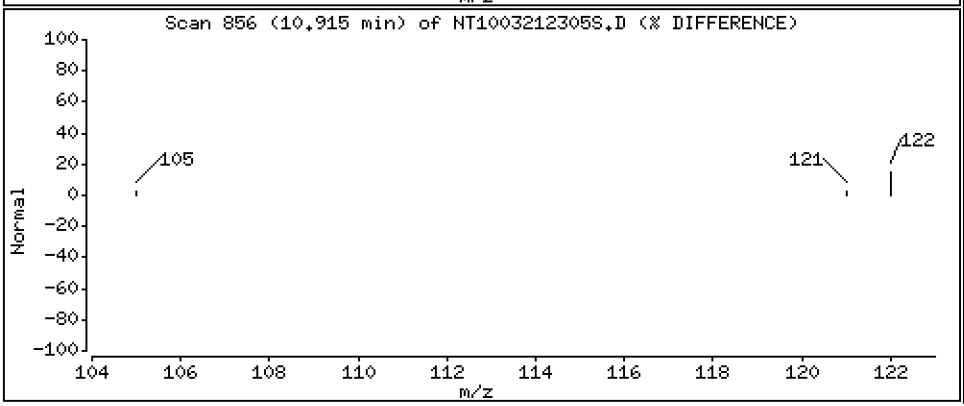












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Date : 21-MAR-2023 19:43

Client ID:

Instrument: nt10.i

Sample Info: SLC0452-LCV1

Volume Injected (uL): 1.0

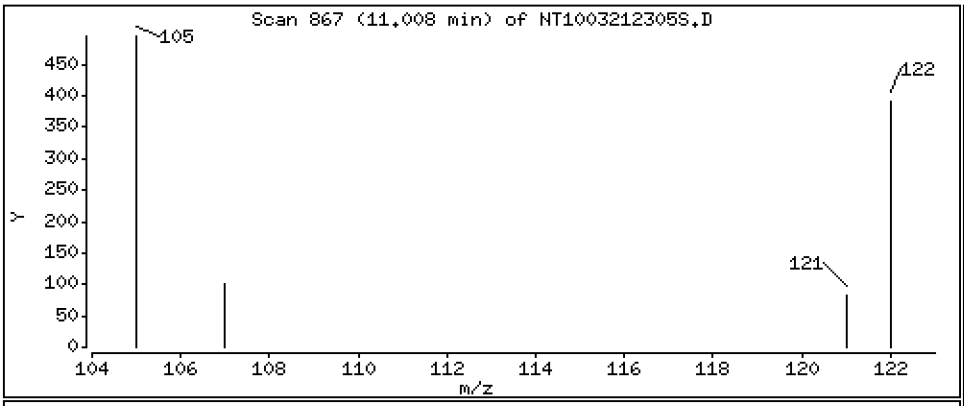
Operator: JGR

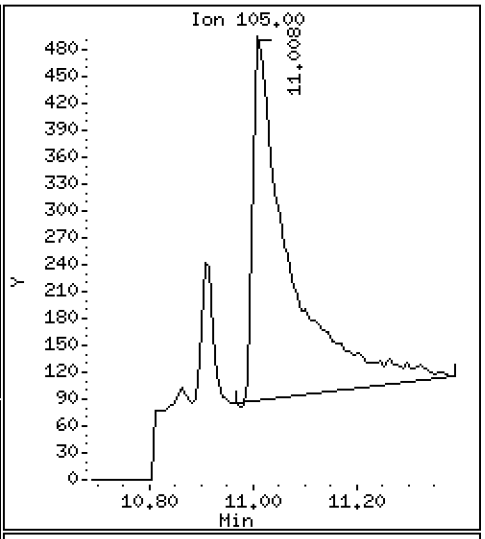
Column phase: ZB-5msi

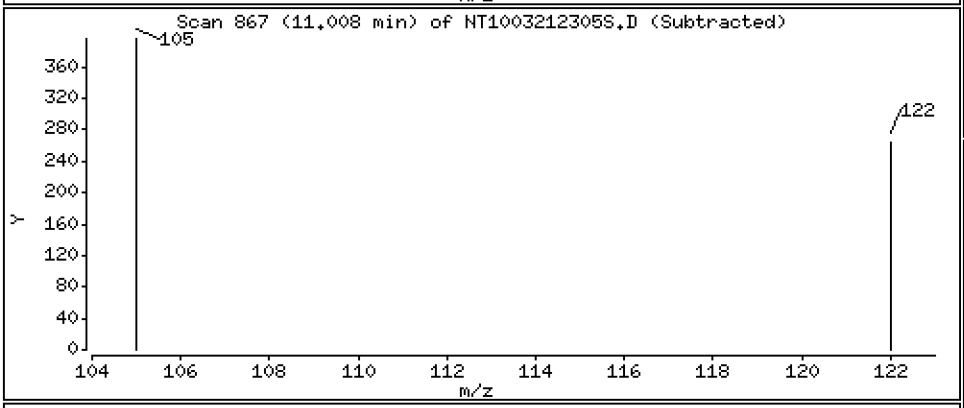
Column diameter: 0.25

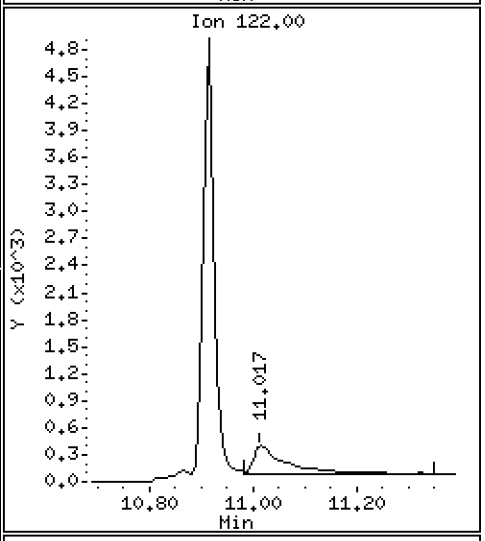
24 Benzoic acid

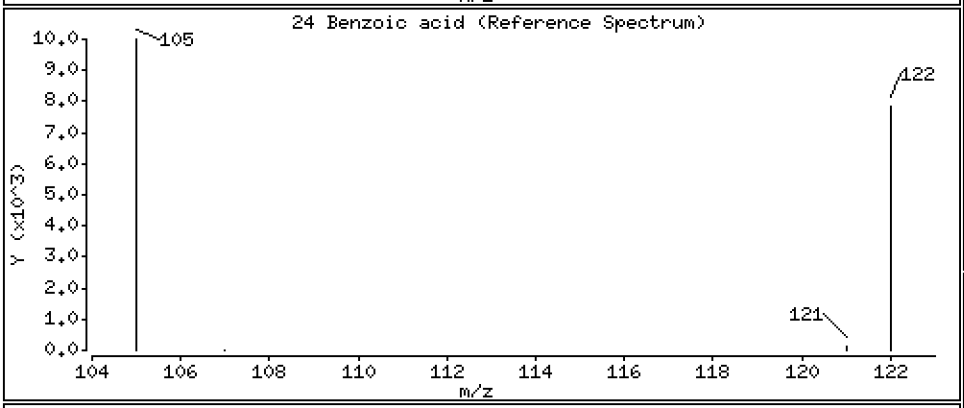
Concentration: 0.07202 ug/L

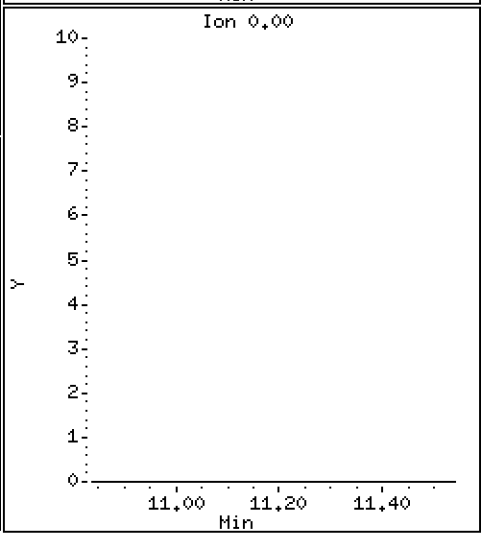


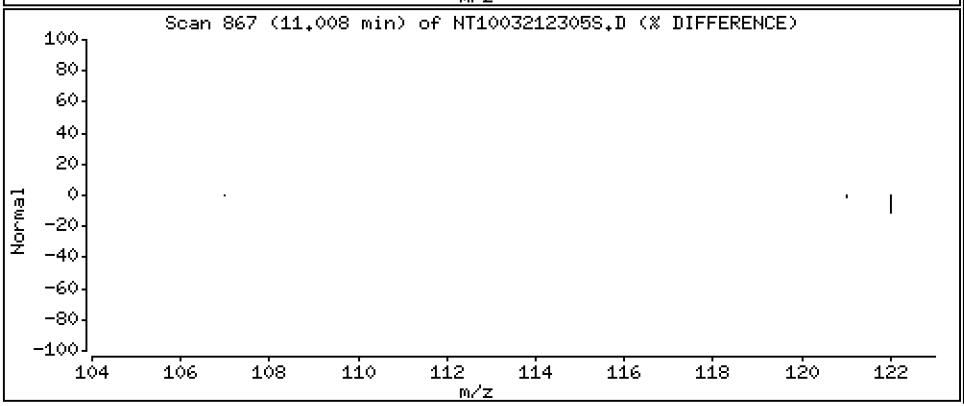












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Date : 21-MAR-2023 19:43

Client ID:

Instrument: nt10.i

Sample Info: SLC0452-LCV1

Volume Injected (uL): 1.0

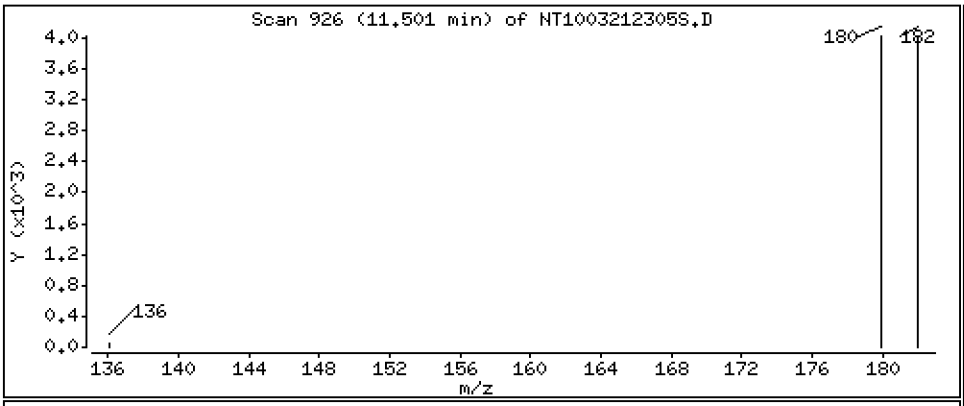
Operator: JGR

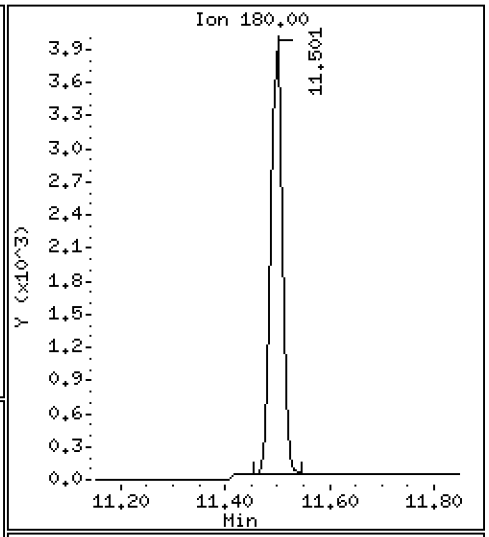
Column phase: ZB-5msi

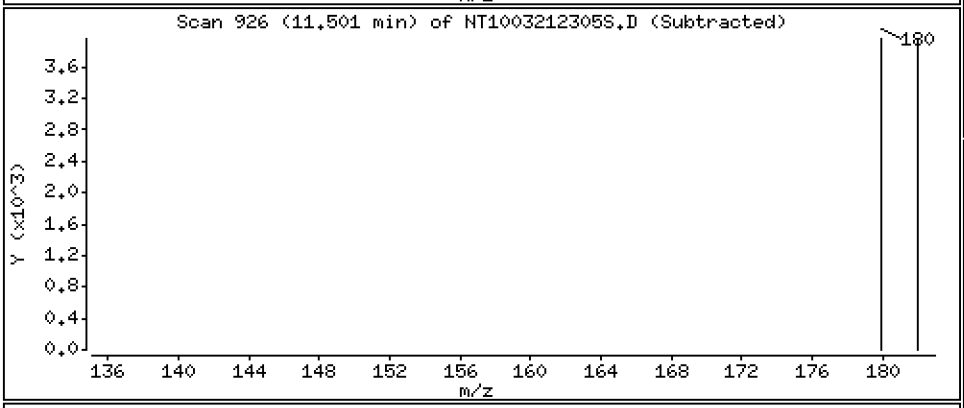
Column diameter: 0.25

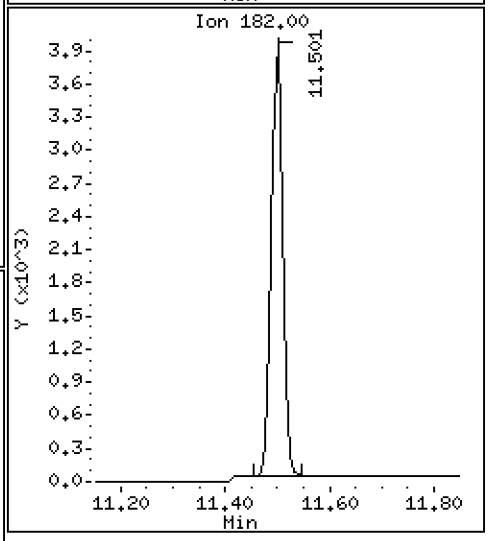
26 1,2,4-Trichlorobenzene

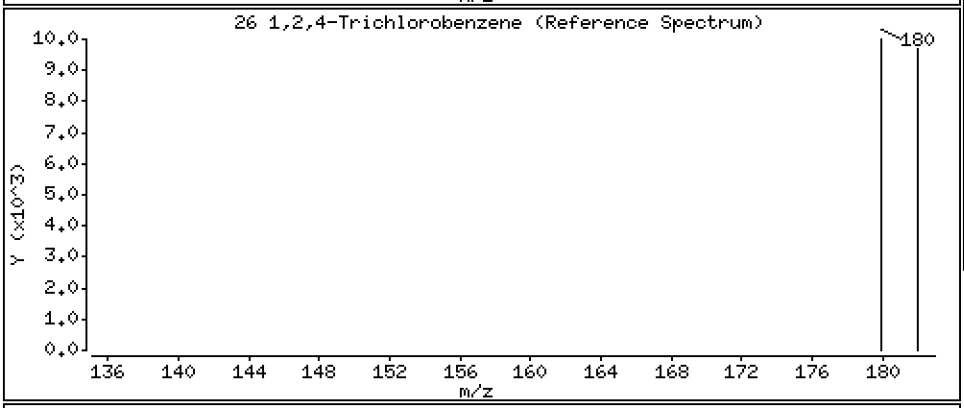
Concentration: 0.1100 ug/L

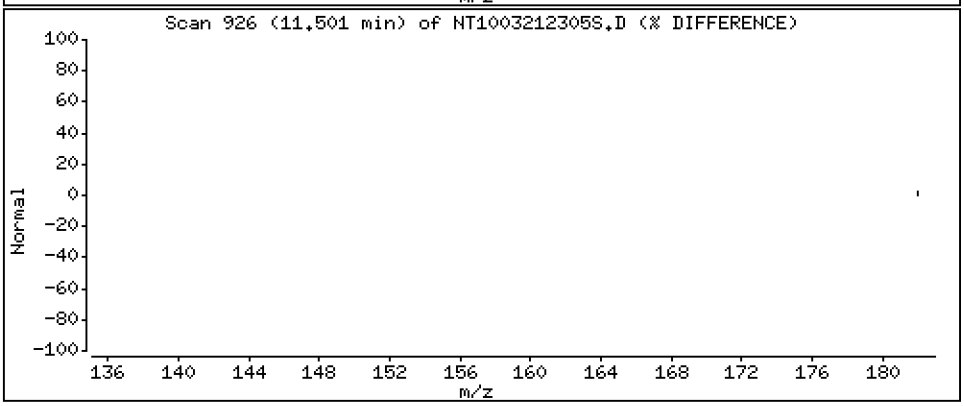












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Date : 21-MAR-2023 19:43

Client ID:

Instrument: nt10.i

Sample Info: SLC0452-LCV1

Volume Injected (uL): 1.0

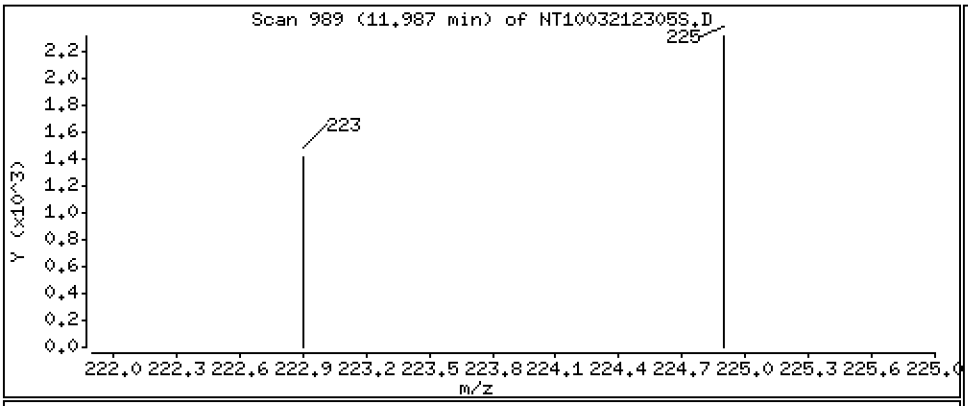
Operator: JGR

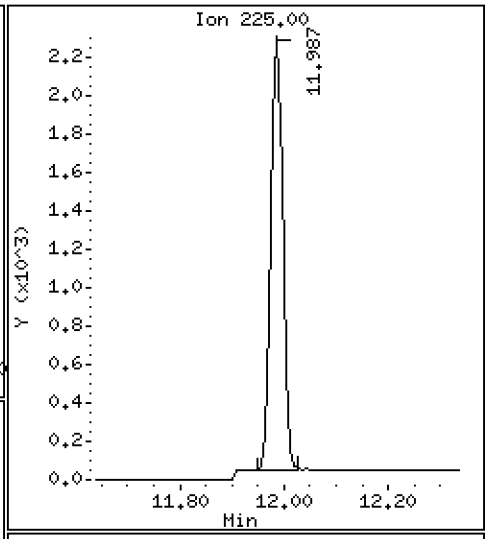
Column phase: ZB-5msi

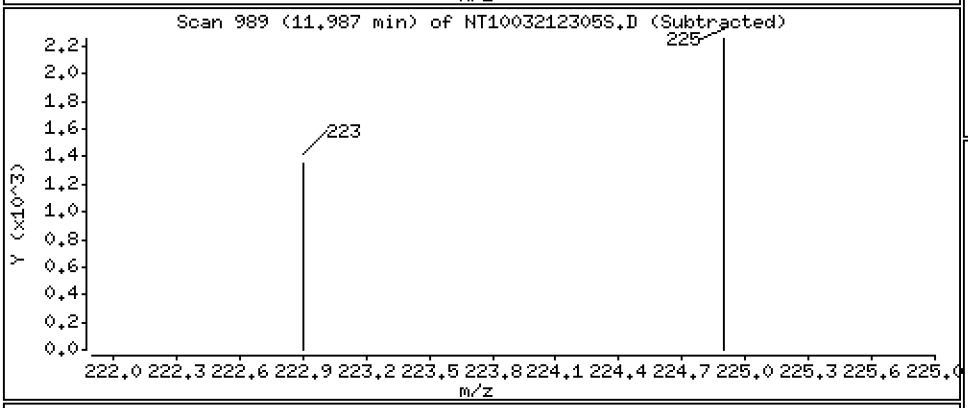
Column diameter: 0.25

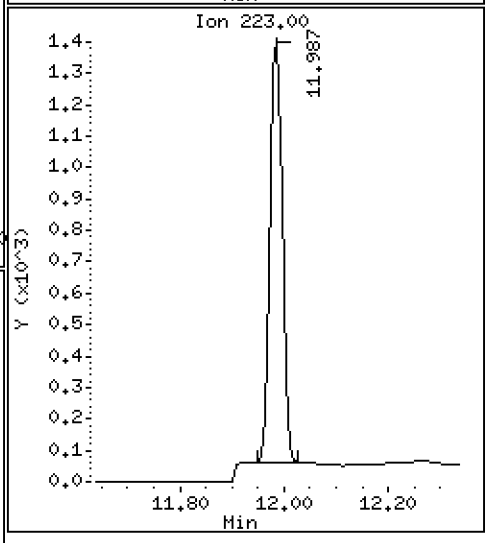
30 Hexachlorobutadiene

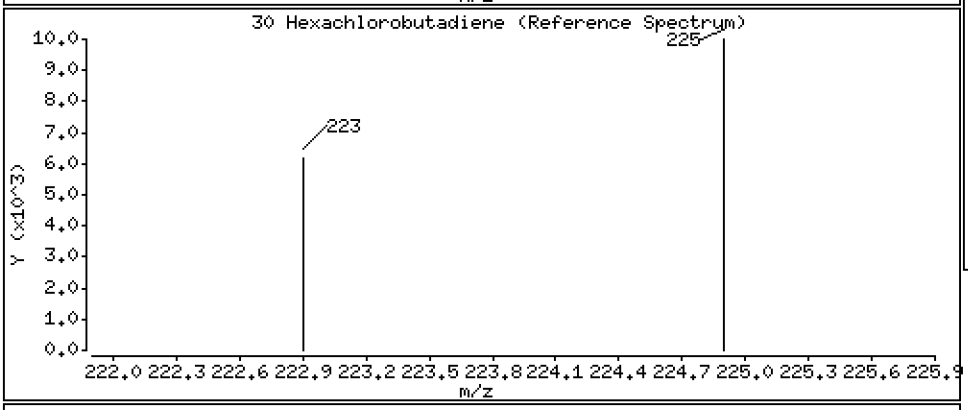
Concentration: 0.1088 ug/L

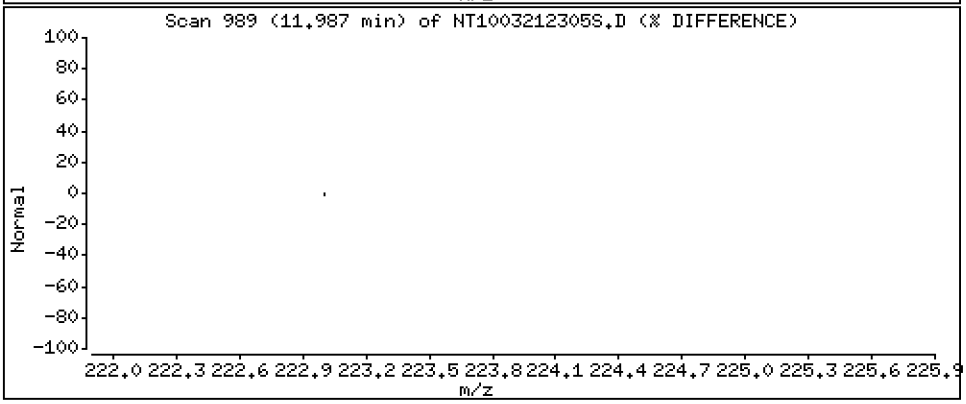












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Date : 21-MAR-2023 19:43

Client ID:

Instrument: nt10.i

Sample Info: SLC0452-LCV1

Volume Injected (uL): 1.0

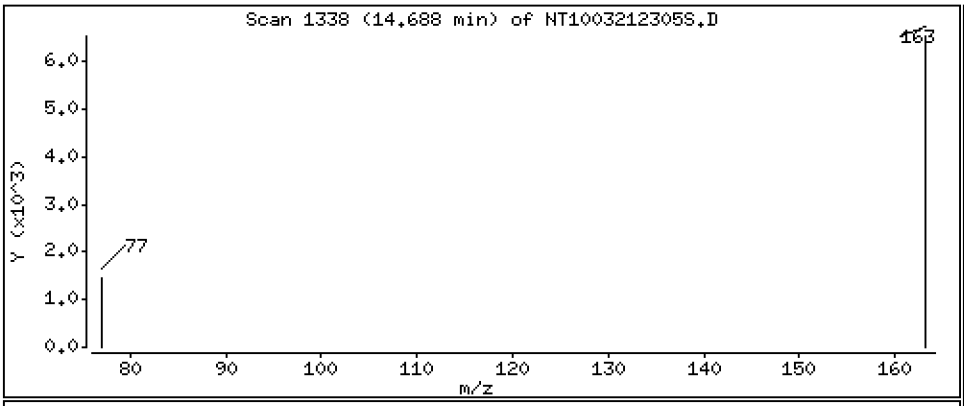
Operator: JGR

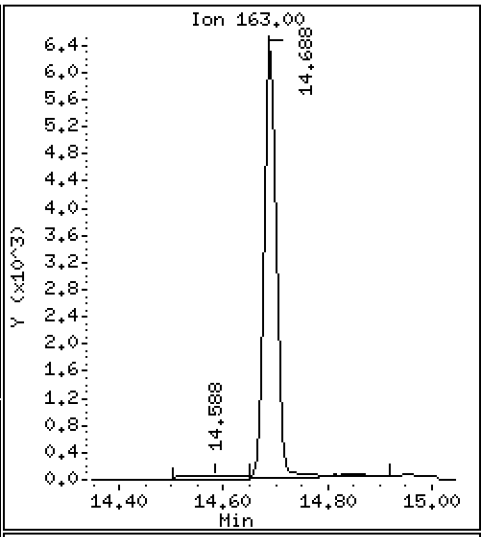
Column phase: ZB-5msi

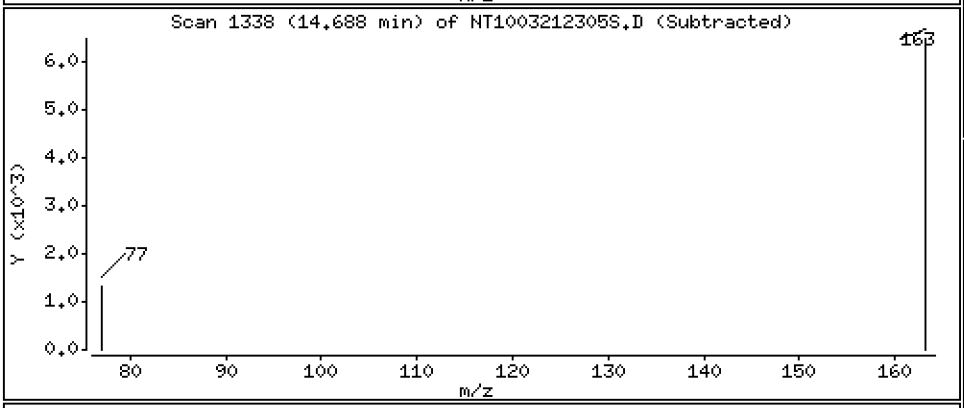
Column diameter: 0.25

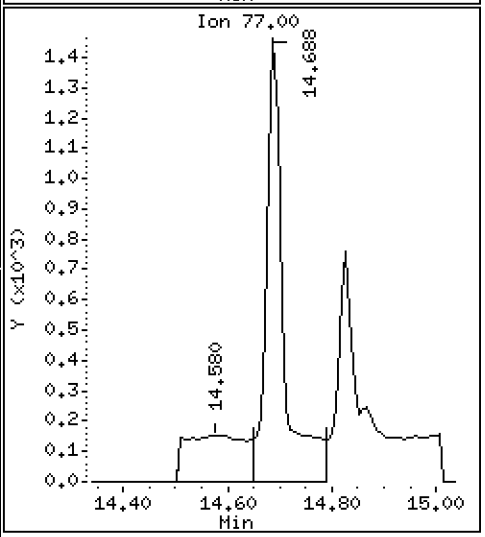
39 Dimethylphthalate

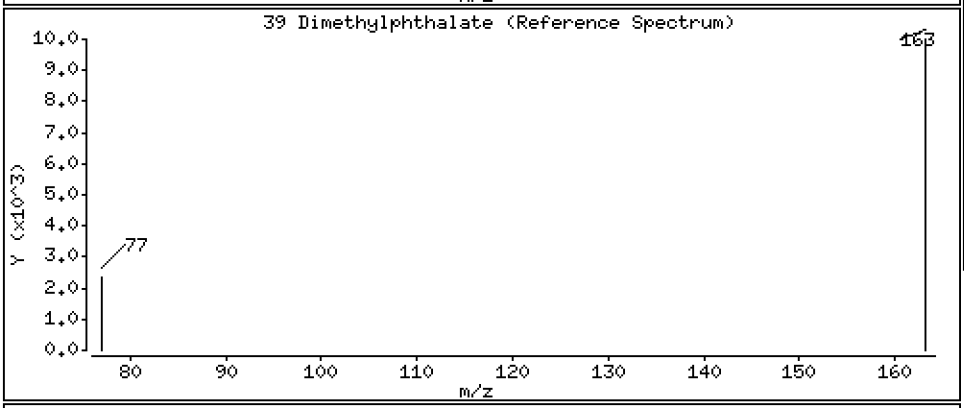
Concentration: 0.1113 ug/L

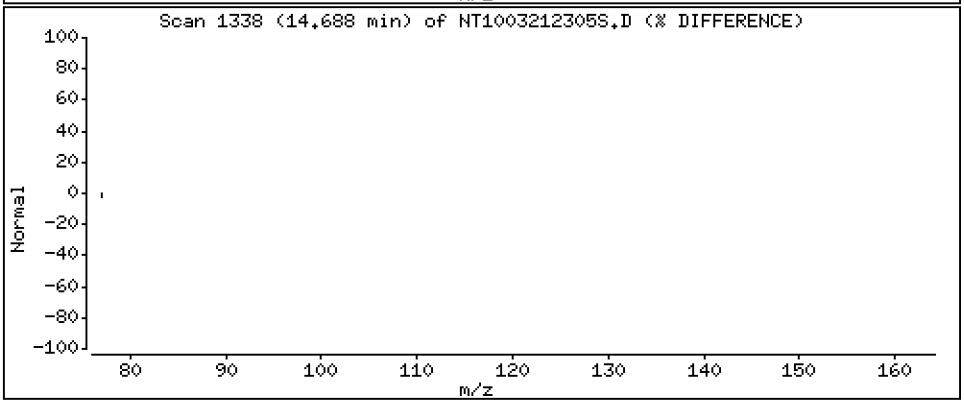












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212305S.D

Date : 21-MAR-2023 19:43

Client ID:

Instrument: nt10.i

Sample Info: SLC0452-LCV1

Volume Injected (uL): 1.0

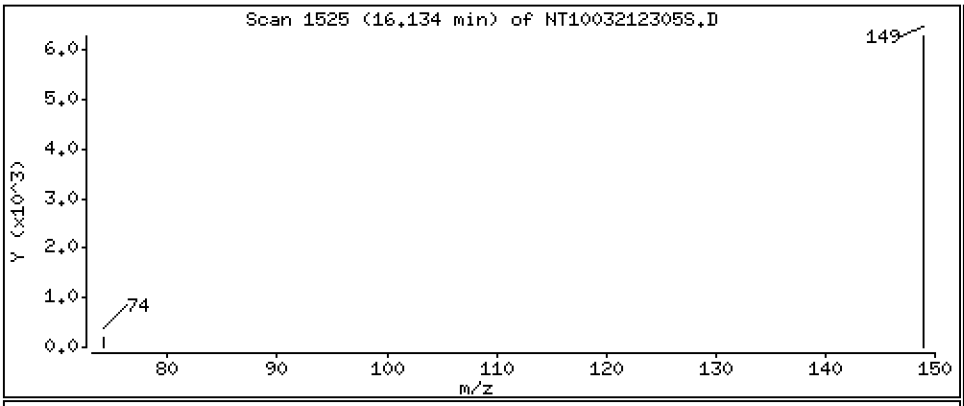
Operator: JGR

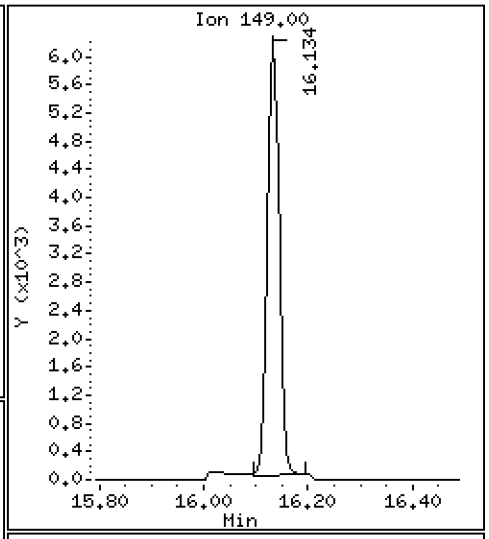
Column phase: ZB-5msi

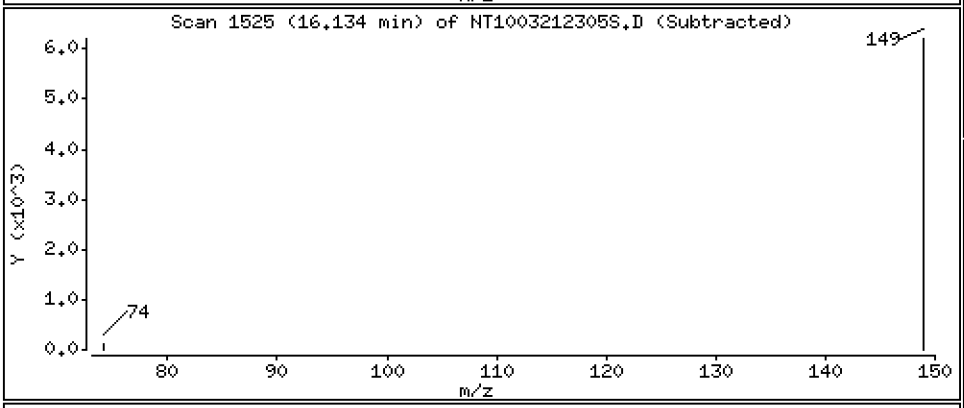
Column diameter: 0.25

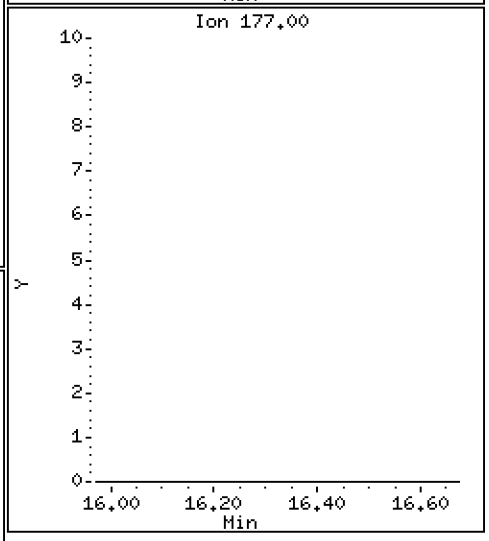
50 Diethylphthalate

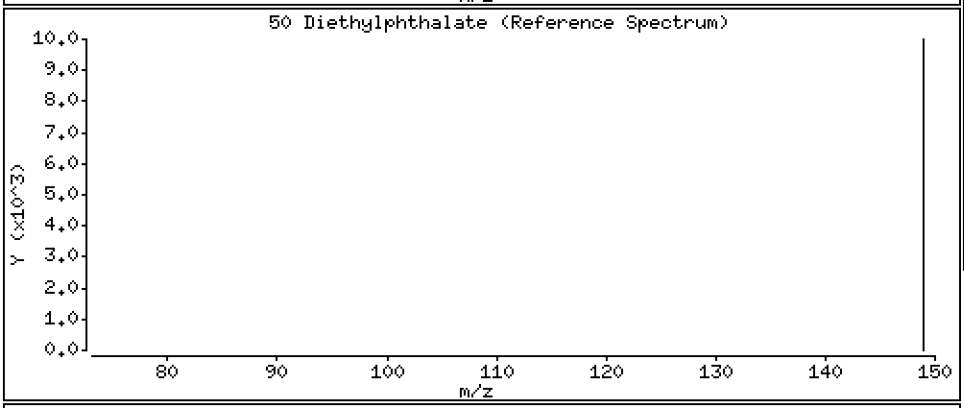
Concentration: 0.09600 ug/L

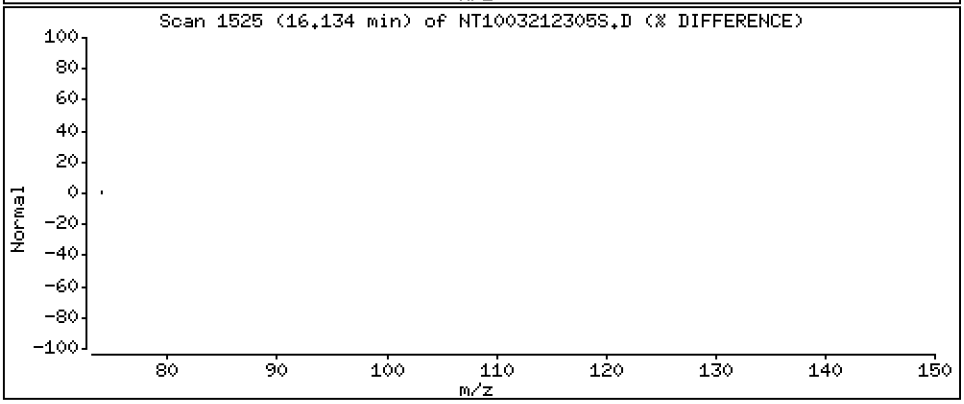












Data File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212305S.D

Date : 21-MAR-2023 19:43

Client ID:

Instrument: nt10.i

Sample Info: SLC0452-LCV1

Volume Injected (uL): 1.0

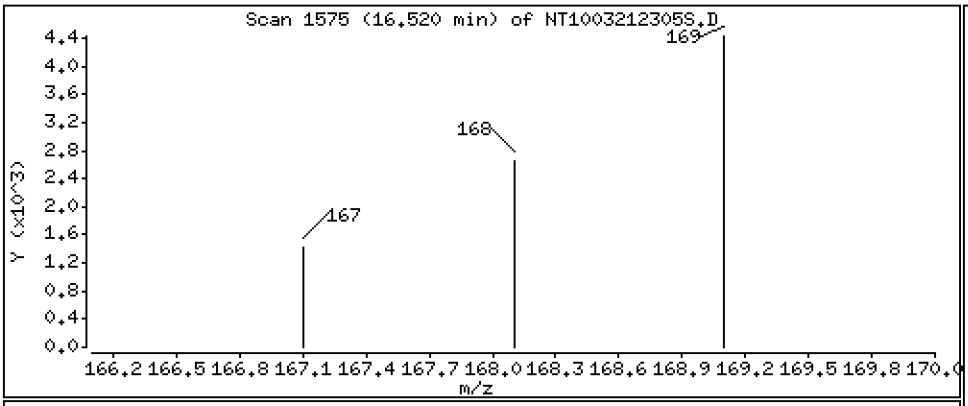
Operator: JGR

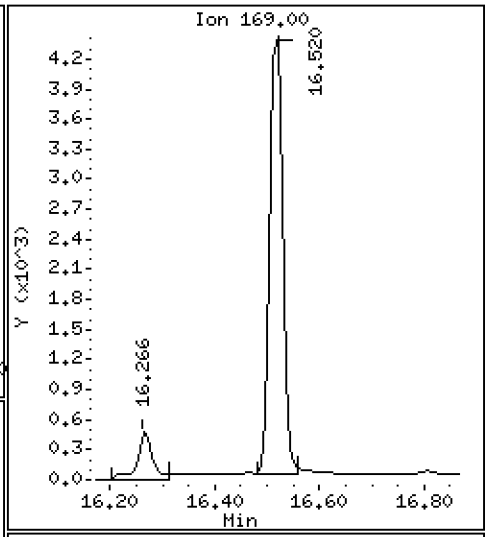
Column phase: ZB-5msi

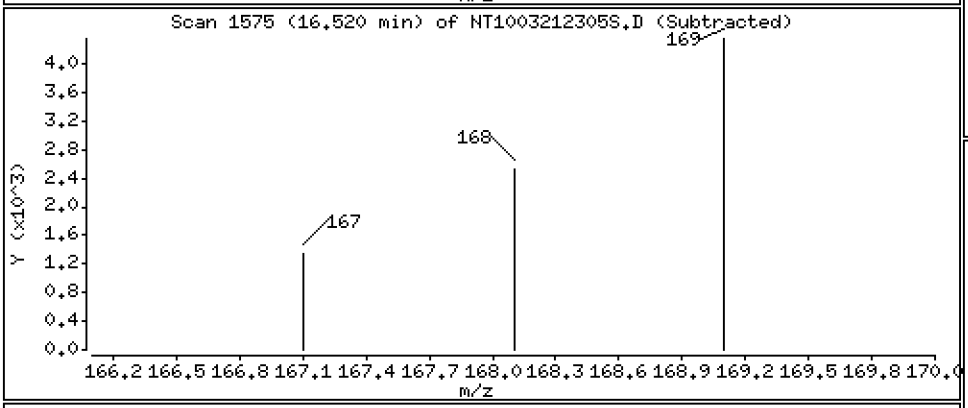
Column diameter: 0.25

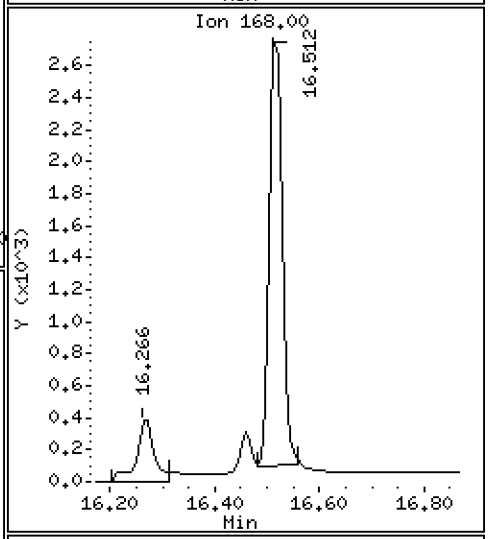
54 N-Nitrosodiphenylamine

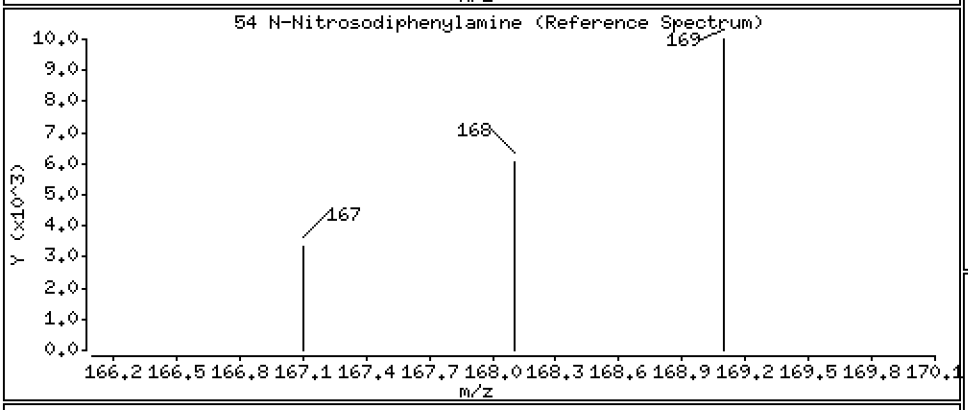
Concentration: 0.09921 ug/L

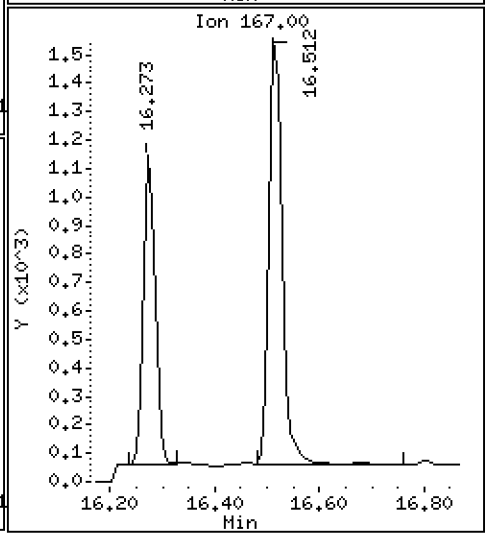


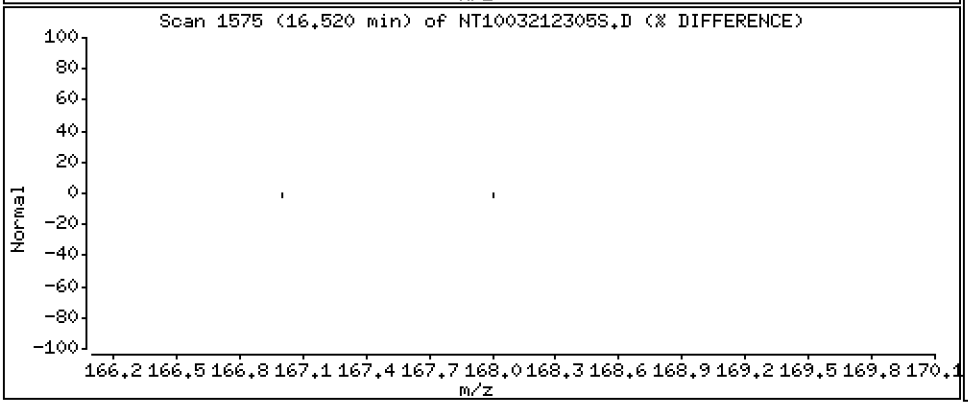












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Date : 21-MAR-2023 19:43

Client ID:

Instrument: nt10.i

Sample Info: SLC0452-LCV1

Volume Injected (uL): 1.0

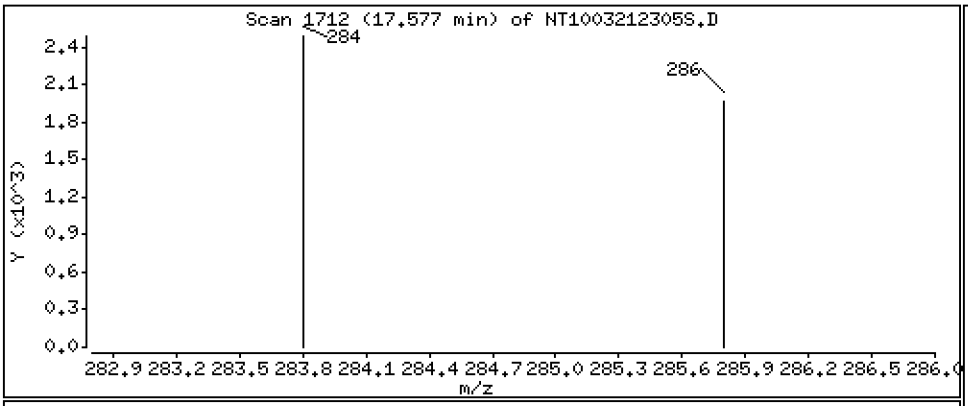
Operator: JGR

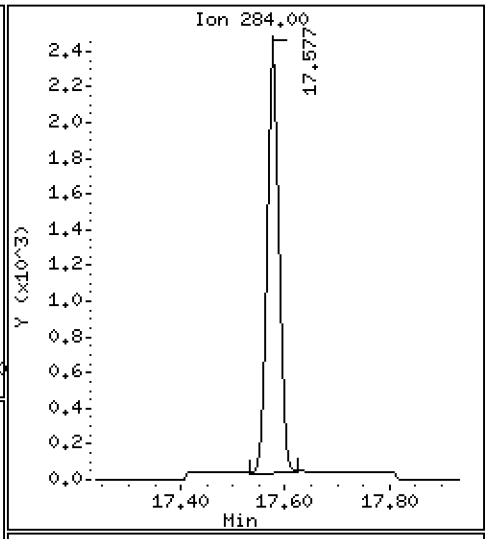
Column phase: ZB-5msi

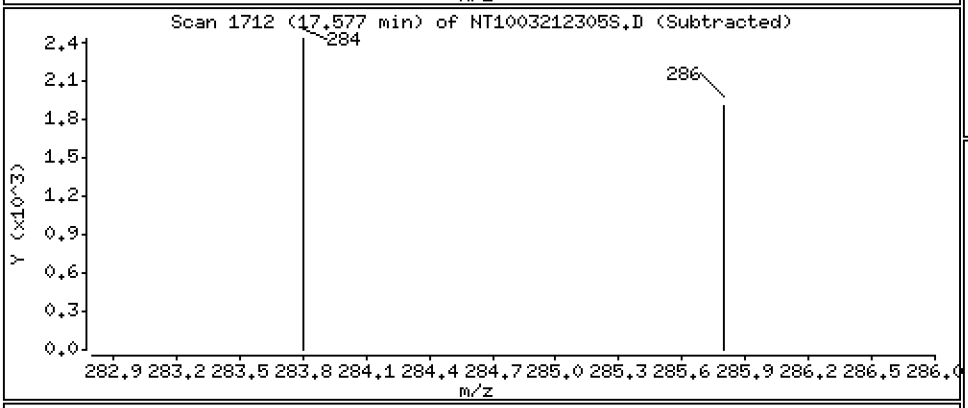
Column diameter: 0.25

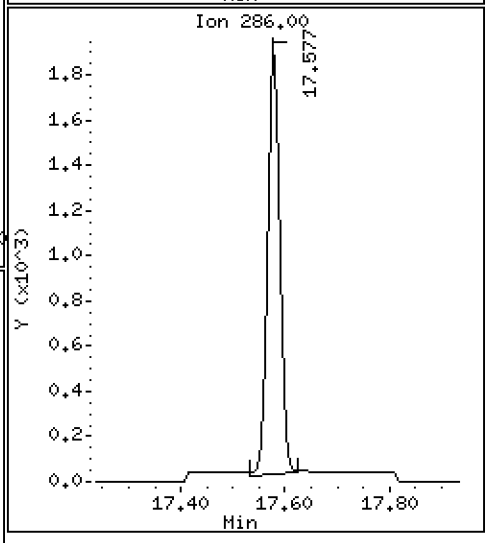
57 Hexachlorobenzene

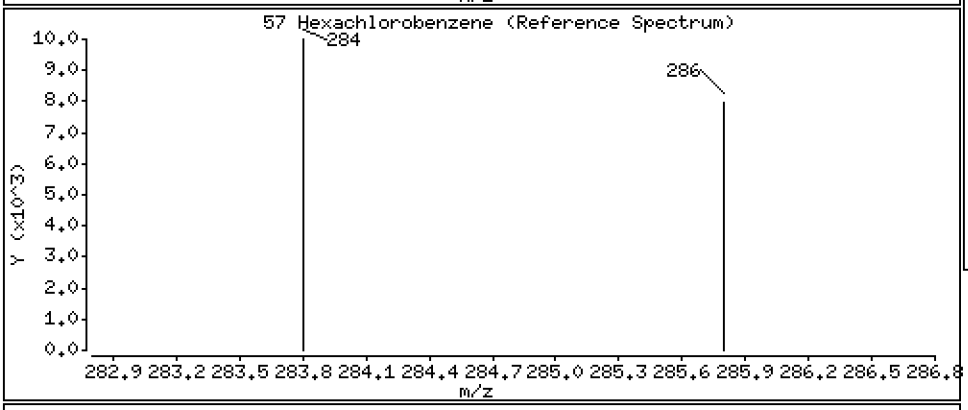
Concentration: 0.1150 ug/L

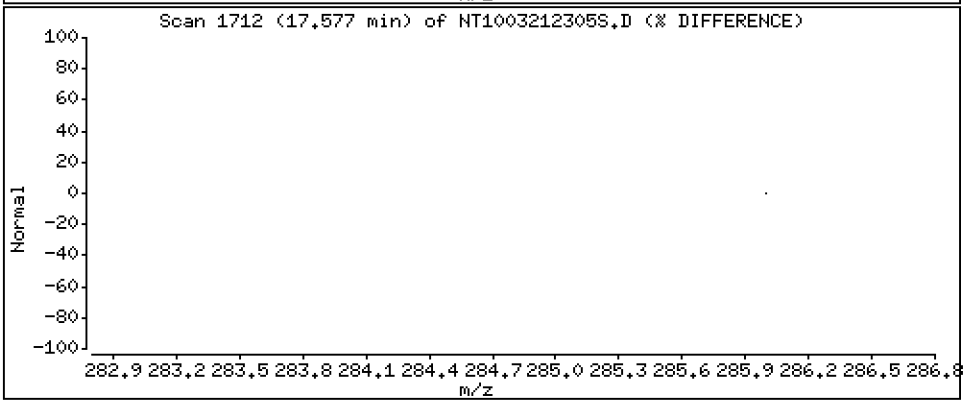












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Date : 21-MAR-2023 19:43

Client ID:

Instrument: nt10.i

Sample Info: SLC0452-LCV1

Volume Injected (uL): 1.0

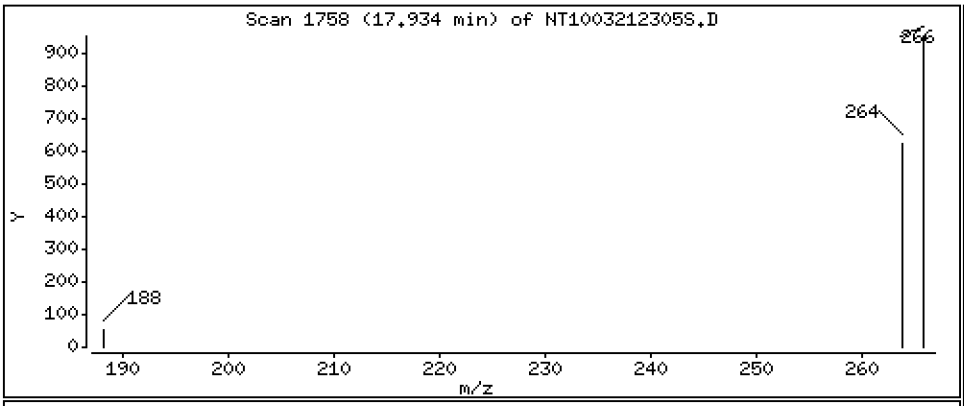
Operator: JGR

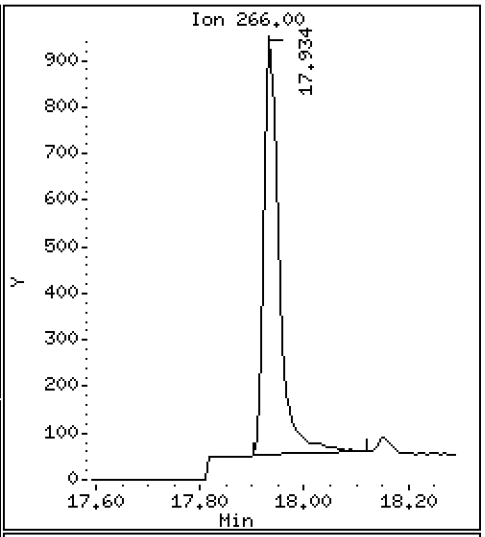
Column phase: ZB-5msi

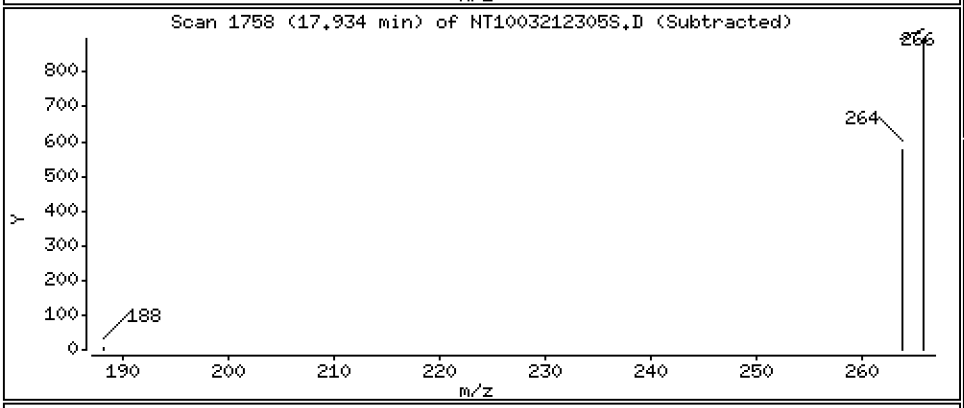
Column diameter: 0.25

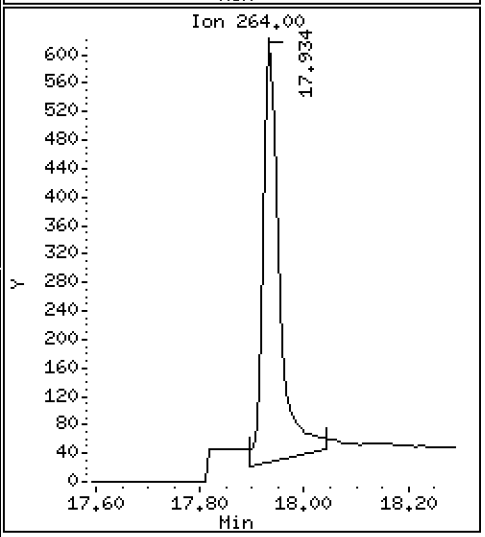
58 Pentachlorophenol

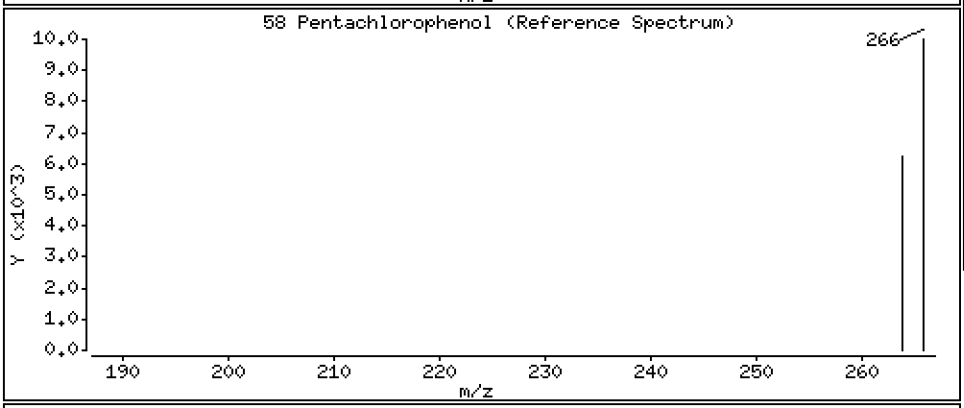
Concentration: 0.09849 ug/L

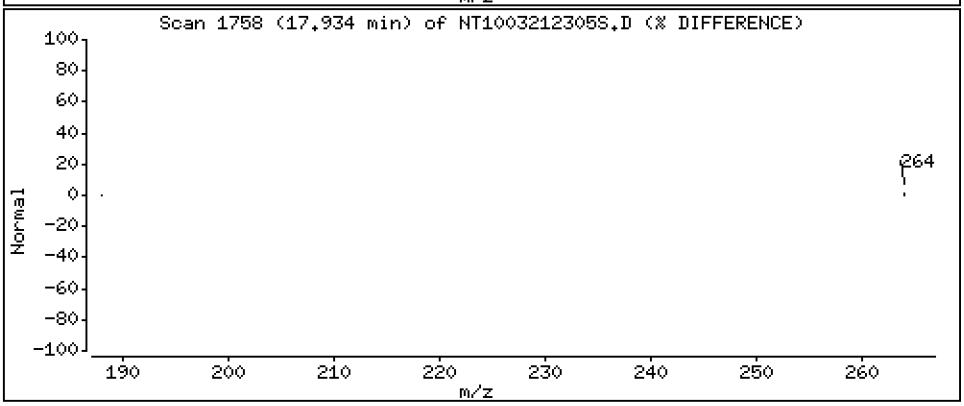












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Date : 21-MAR-2023 19:43

Client ID:

Instrument: nt10.i

Sample Info: SLC0452-LCV1

Volume Injected (uL): 1.0

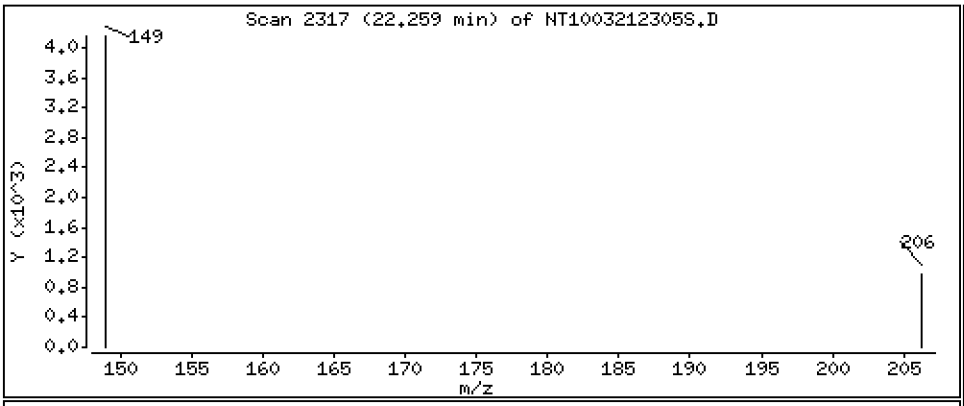
Operator: JGR

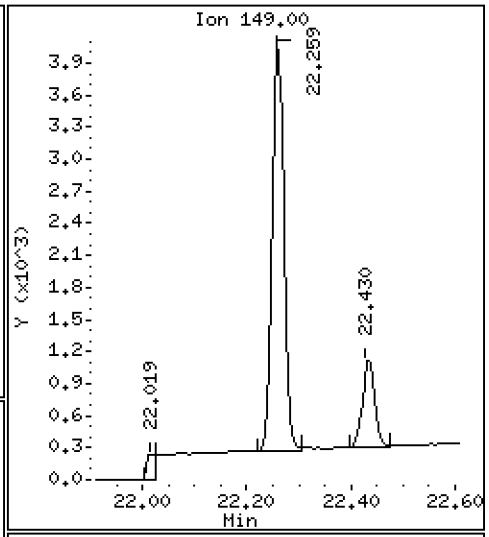
Column phase: ZB-5msi

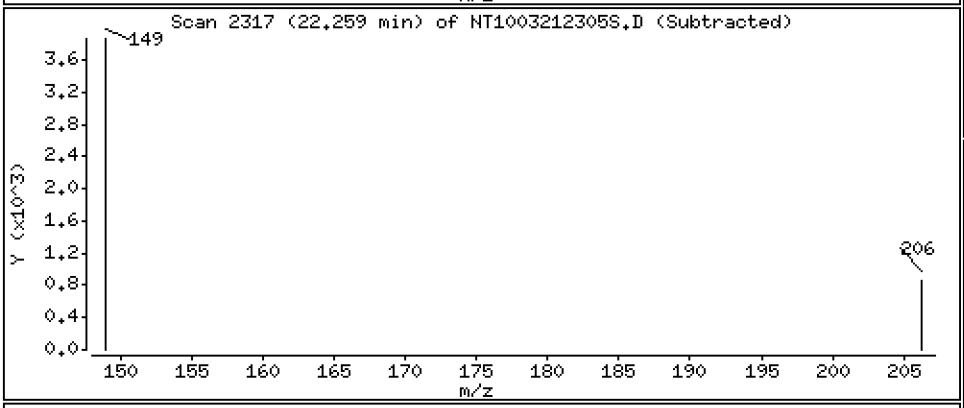
Column diameter: 0.25

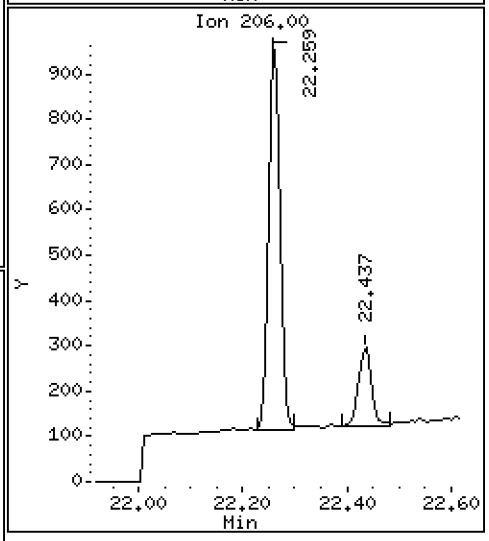
67 Butylbenzylphthalate

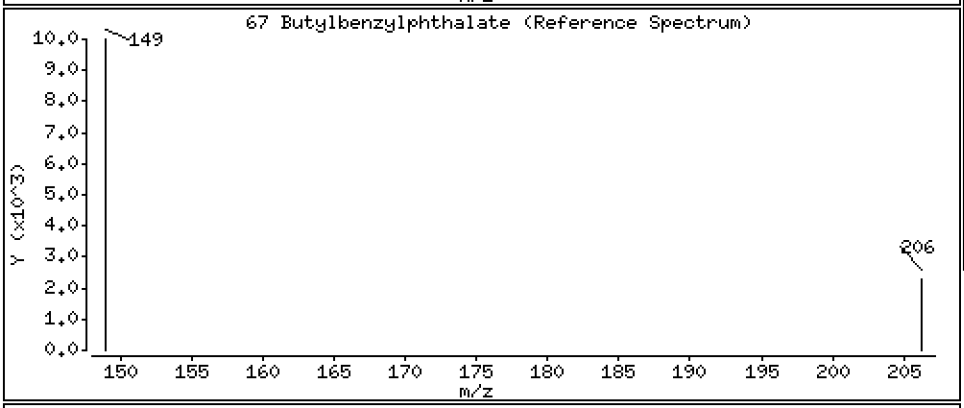
Concentration: 0.09016 ug/L

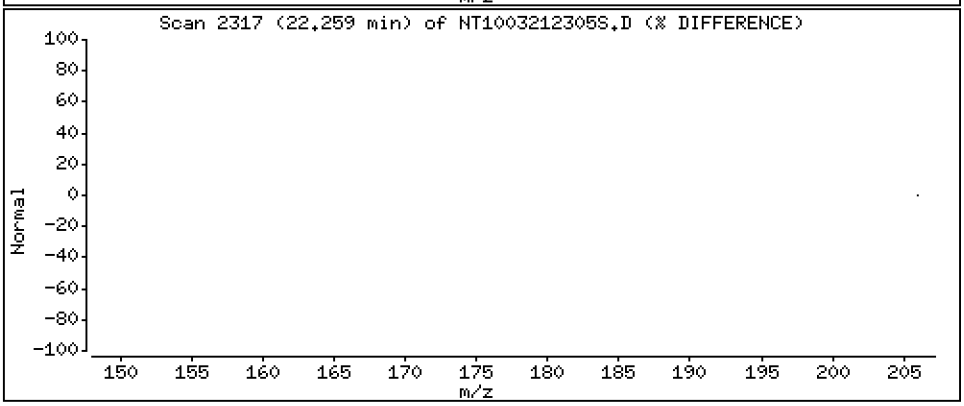












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Date : 21-MAR-2023 19:43

Client ID:

Instrument: nt10.i

Sample Info: SLC0452-LCV1

Volume Injected (uL): 1.0

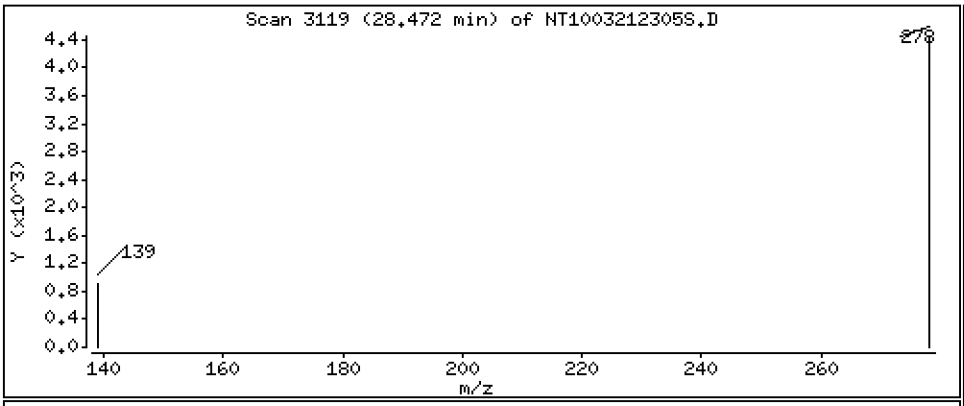
Operator: JGR

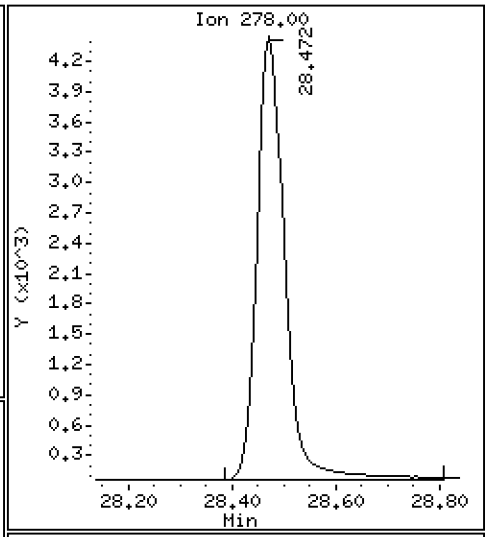
Column phase: ZB-5msi

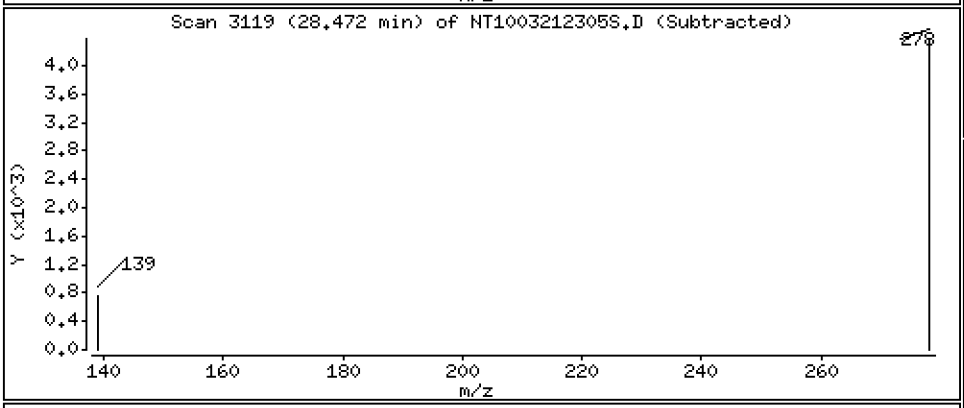
Column diameter: 0.25

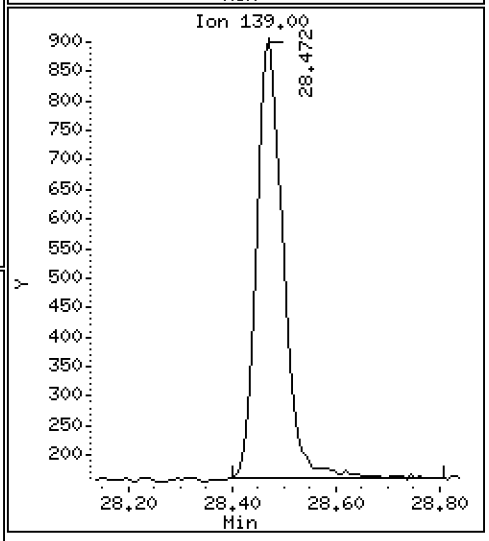
79 Dibenzo(a,h)anthracene

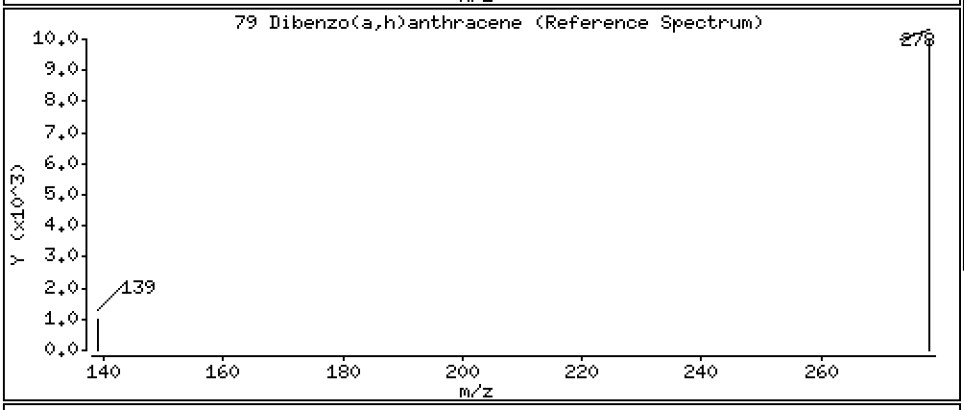
Concentration: 0.09534 ug/L

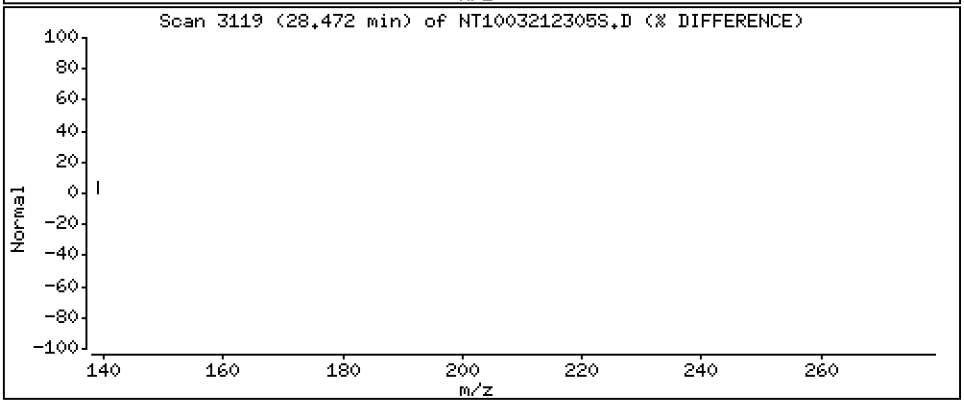












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Date : 21-MAR-2023 19:43

Client ID:

Instrument: nt10.i

Sample Info: SLC0452-LCV1

Volume Injected (uL): 1.0

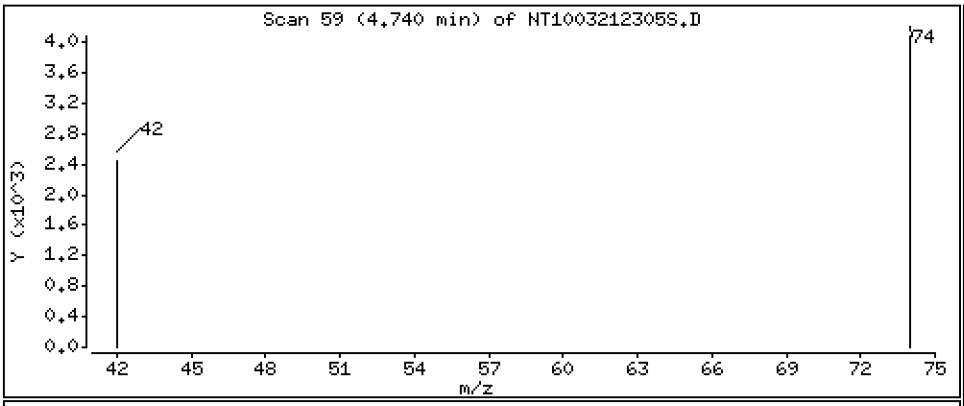
Operator: JGR

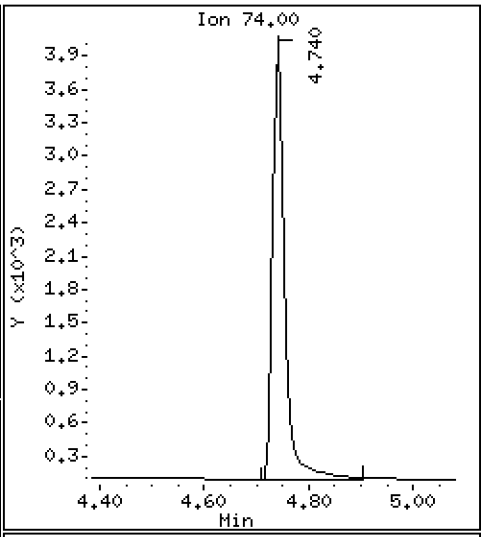
Column phase: ZB-5msi

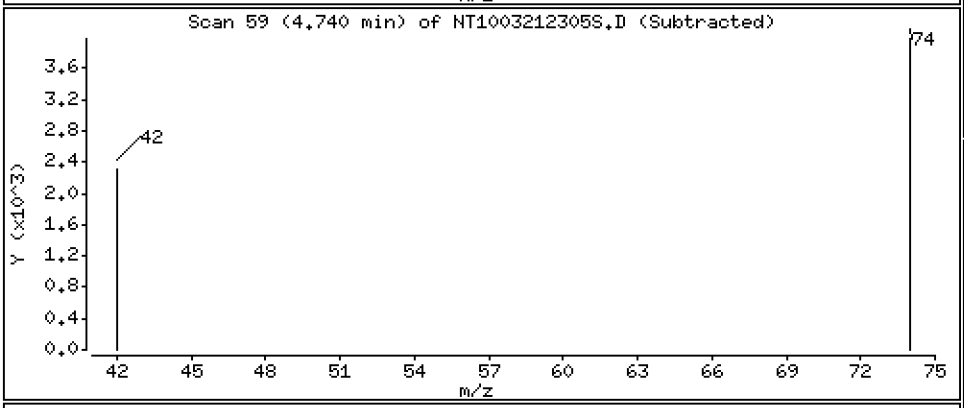
Column diameter: 0.25

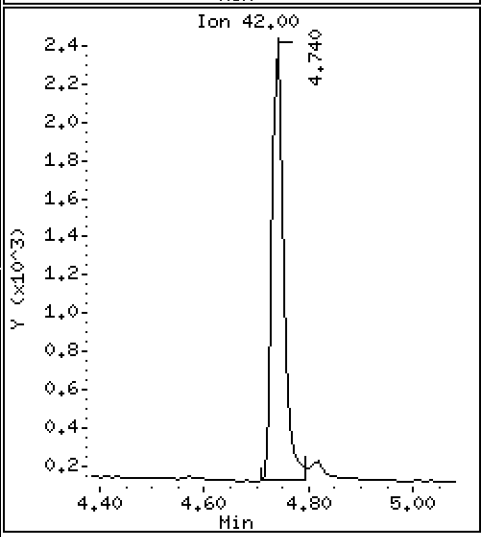
90 N-Nitrosodimethylamine

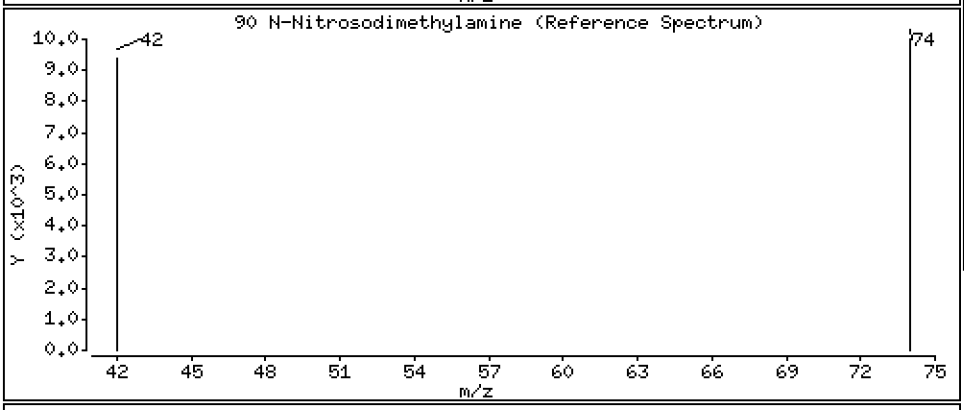
Concentration: 0.1854 ug/L

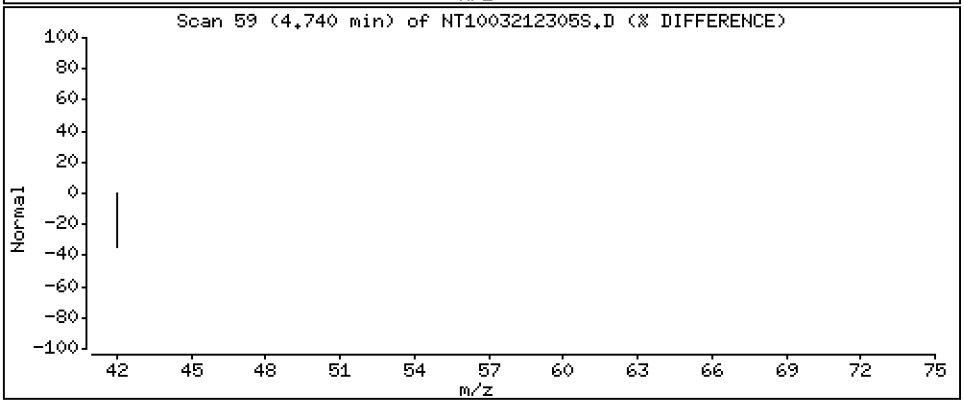












ARI Labs, Inc.

METHOD 8270D-SIM

Data file : \\target\share\chem3\nt10.i\20230321.b\20230321.b\NT1003212305S.D
Lab Smp Id: SLC0452-LCV1
Inj Date : 21-MAR-2023 19:43 MS Autotune Date: 16-JAN-2023 17:42
Operator : JGR Inst ID: nt10.i
Smp Info : SLC0452-LCV1
Misc Info :
Comment :
Method : \\target\share\chem3\nt10.i\20230321.b\20230321.b\SIMABN2.m
Meth Date : 29-Mar-2023 09:55 van Quant Type: ISTD
Cal Date : 16-MAR-2023 01:38 Cal File: NT10031510S.D
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PSDDA.sub
Target Version: 4.14
Processing Host: VANS-201906

Concentration Formula: Amt * DF * Uf * Vt/(Vo * Vi) * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	1000.000	Volume of sample extracted (mL)
Vt	1000.000	Volume of final extract (uL)
Vi	1.000	Volume injected (uL)
Uf	1.000	ng unit correction factor
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/L)
$ 1	2-Fluorophenol	112	6.895	6.895	(0.757)	7204	0.14195	0.1420(R)
3	Phenol	94	8.494	8.494	(0.933)	6329	0.09090	0.09090
7	1,3-Dichlorobenzene	146	9.043	9.043	(0.993)	7107	0.10908	0.1091
* 8	1,4-Dichlorobenzene-d4	152	9.105	9.105	(1.000)	167356	4.00000	
9	1,4-Dichlorobenzene	146	9.136	9.136	(1.003)	6878	0.10936	0.1094
11	Benzyl alcohol	79	9.385	9.377	(1.031)	2812	0.06966	0.06966
12	1,2-Dichlorobenzene	146	9.493	9.493	(1.043)	6700	0.10832	0.1083
13	2-Methylphenol	108	9.602	9.602	(1.055)	4284	0.08880	0.08880
15	4-Methylphenol	108	9.874	9.874	(1.084)	4239	0.08456	0.08456
16	N-Nitroso-di-n-propylamine	70	9.936	9.936	(1.091)	2973	0.08386	0.08386
22	2,4-Dimethylphenol	107	10.915	10.914	(0.942)	8937	0.17621	0.1762
24	Benzoic acid	105	11.008	11.042	(0.950)	1997	0.07202	0.07202(M)
26	1,2,4-Trichlorobenzene	180	11.500	11.500	(0.993)	5611	0.10997	0.1100
* 27	Naphthalene-d8	136	11.585	11.585	(1.000)	586768	4.00000	
30	Hexachlorobutadiene	225	11.987	11.987	(1.035)	3376	0.10883	0.1088
39	Dimethylphthalate	163	14.688	14.695	(0.968)	10251	0.11132	0.1113
* 42	Acenaphthene-d10	162	15.175	15.183	(1.000)	291797	4.00000	
50	Diethylphthalate	149	16.134	16.141	(1.063)	9158	0.09600	0.09600
54	N-Nitrosodiphenylamine	169	16.520	16.520	(0.908)	7106	0.09921	0.09921
57	Hexachlorobenzene	284	17.577	17.584	(0.966)	3686	0.11496	0.1150

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/L)
	58 Pentachlorophenol	266	17.933	17.941	(0.986)	1744	0.09849	0.09849(M)
*	59 Phenanthrene-d10	188	18.196	18.196	(1.000)	533848	4.00000	
$	66 Terphenyl-d14	244	21.330	21.337	(0.918)	7129	0.09397	0.09397(R)
	67 Butylbenzylphthalate	149	22.259	22.259	(0.958)	5521	0.09016	0.09016
*	69 Chrysene-d12	240	23.227	23.234	(1.000)	465599	4.00000	
*	77 Perylene-d12	264	25.836	25.836	(1.000)	520287	4.00000	
	79 Dibenzo(a,h)anthracene	278	28.472	28.487	(1.102)	16278	0.09534	0.09534
	90 N-Nitrosodimethylamine	74	4.740	4.732	(0.521)	5967	0.18538	0.1854

QC Flag Legend

R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1003212305S.D
Lab Smp Id: SLC0452-LCV1
Analysis Type: SV
Quant Type: ISTD
Operator: JGR
Method File: \\target\share\chem3\nt10.i\20230321.b\20230321.b\SIMABN2.m
Misc Info:

Calibration Date: 21-MAR-2023
Calibration Time: 18:25
Level: LOW
Sample Type: AIR

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	162628	81314	325256	167356	2.91
27 Naphthalene-d8	580280	290140	1160560	586768	1.12
42 Acenaphthene-d10	297255	148628	594510	291797	-1.84
59 Phenanthrene-d10	561093	280547	1122186	533848	-4.86
69 Chrysene-d12	498827	249414	997654	465599	-6.66
77 Perylene-d12	558480	279240	1116960	520287	-6.84

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.11	8.61	9.61	9.11	0.00
27 Naphthalene-d8	11.59	11.09	12.09	11.59	0.00
42 Acenaphthene-d10	15.18	14.68	15.68	15.18	-0.05
59 Phenanthrene-d10	18.20	17.70	18.70	18.20	0.00
69 Chrysene-d12	23.23	22.73	23.73	23.23	-0.03
77 Perylene-d12	25.84	25.34	26.34	25.84	0.00

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

REVIEW SUMMARY FOR FILE - NT1003212305S.D

Lab ID: SLC0452-LCV1
nt10.i, 20230321.b\20230321.b\SIMABN2.m,   21-MAR-2023 19:43

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

RRT check based on Ccal File: 20230321.b/NT1003212303S.D

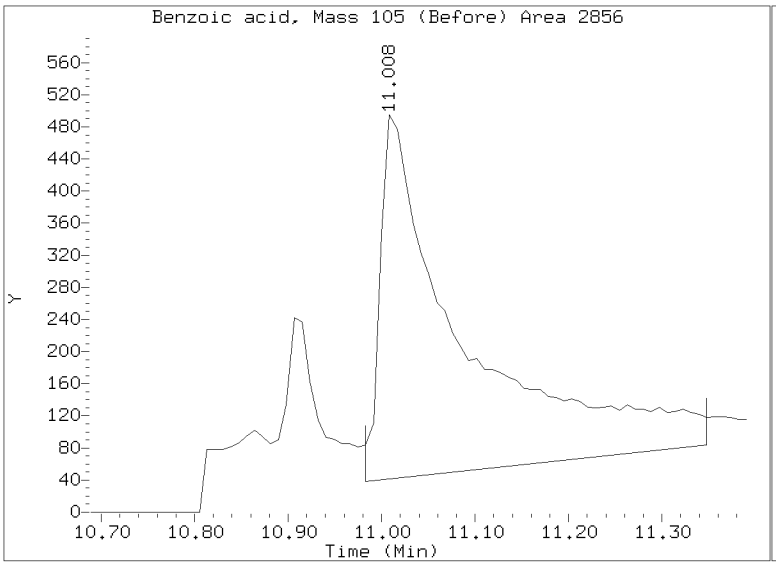
On Column LOD for nt10.i, 20230321.b\SIMABN2.m, PSDDA.sub = 0.0000

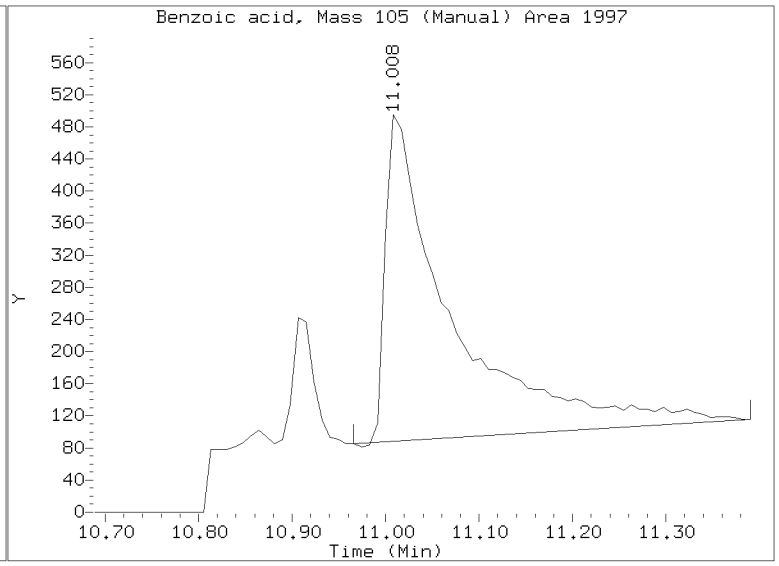
Exception: 1,2,4-Trichlorobenzene 0.0010

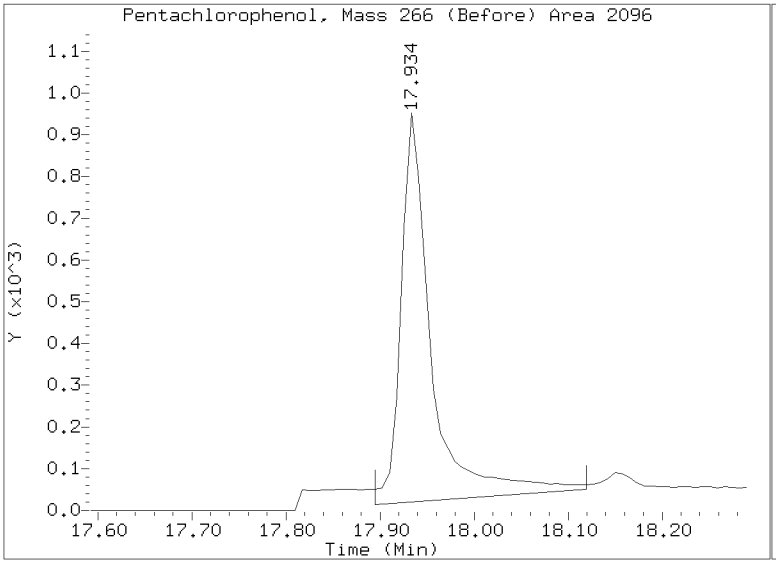
* Only compounds listed in the work order have been verified by the analyst *

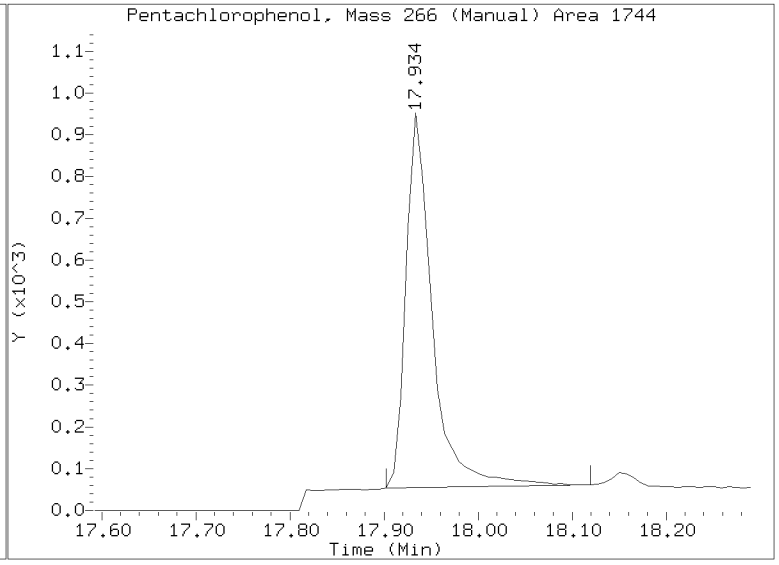
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230321.b/20230321.b/NT1003212305S.D
Injection Date: 21-MAR-2023 19:43
Lab ID:SLC0452-LCV1 Client ID:
Report Date: 03/29/2023 13:23









Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLC0238	Instrument:	NT10
		Calibration:	GC00049

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
MS Tune	SLC0238-TUN1	NT10031501S.D	NA	03/15/23 20:19
ABN 10.0	SLC0238-CAL8	NT10031503S.D	NA	03/15/23 21:12
ABN 5.0	SLC0238-CAL7	NT10031504S.D	NA	03/15/23 21:50
ABN 2.5	SLC0238-CAL6	NT10031505S.D	NA	03/15/23 22:28
ABN 1.0	SLC0238-CAL5	NT10031506S.D	NA	03/15/23 23:06
ABN 0.5	SLC0238-CAL4	NT10031507S.D	NA	03/15/23 23:44
ABN 0.2	SLC0238-CAL3	NT10031508S.D	NA	03/16/23 00:22
ABN 0.1	SLC0238-CAL2	NT10031509S.D	NA	03/16/23 01:00
ABN 0.05	SLC0238-CAL1	NT10031510S.D	NA	03/16/23 01:38
SCV 5.0	SLC0238-SCV1	NT10031511S.D	NA	03/16/23 02:16
Initial Cal Blank	SLC0238-ICB1	NT10031512S.D	NA	03/16/23 02:54

ANALYSIS SEQUENCE

SLC0238

Instrument ID: NT10
Calibration ID: GC00049
MS EM Level: 1271 EV

GCMS Description: Agilent 5975/MS http://bi
GCMS Column ID: L002830

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	File ID	Analyst	Comments
SLC0238-TUN1	MS Tune	QC		1	L002618		03/15/2023 20:19	NT10031501S.D	JGR	
SLC0238-CAL8	ABN 10.0	QC		2	K011110	K010831	03/15/2023 21:12	NT10031503S.D	JGR	
SLC0238-CAL7	ABN 5.0	QC		3	K011109	K010831	03/15/2023 21:50	NT10031504S.D	JGR	
SLC0238-CAL6	ABN 2.5	QC		4	K011108	K010831	03/15/2023 22:28	NT10031505S.D	JGR	
SLC0238-CAL5	ABN 1.0	QC		5	K011107	K010831	03/15/2023 23:06	NT10031506S.D	JGR	
SLC0238-CAL4	ABN 0.5	QC		6	K011106	K010831	03/15/2023 23:44	NT10031507S.D	JGR	
SLC0238-CAL3	ABN 0.2	QC		7	K011105	K010831	03/16/2023 00:22	NT10031508S.D	JGR	
SLC0238-CAL2	ABN 0.1	QC		8	L002877	K010831	03/16/2023 01:00	NT10031509S.D	JGR	
SLC0238-CAL1	ABN 0.05	QC		9	L002878	K010831	03/16/2023 01:38	NT10031510S.D	JGR	
SLC0238-SCV1	SCV 5.0	QC		10	K010066	K010831	03/16/2023 02:16	NT10031511S.D	JGR	
SLC0238-ICB1	Initial Cal Blank	QC		11	K005156	K010831	03/16/2023 02:54	NT10031512S.D	JGR	

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230315.b\20230315.b

	Time	Filename	LabID	ClientId	DF											
1	2019	NT10031501S.D	SLC0238-TUN1		1	|NO ISTDS FOUND||										
2	2034	NT10031502S.D	FULL SCAN ONLY		1	9.31	193857	11.78	709633	15.39	344841	18.43	635594	23.46	392013	26.19	449978
3	2112	NT10031503S.D	SLC0238-CAL8		1	9.31	192425	11.78	689875	15.39	341663	18.42	651934	23.45	482051	26.19	502718
4	2150	NT10031504S.D	SLC0238-CAL7		1	9.30	187419	11.77	682446	15.38	331603	18.42	598629	23.45	389338	26.19	466441
5	2228	NT10031505S.D	SLC0238-CAL6		1	9.30	173412	11.78	624286	15.38	310309	18.43	554860	23.46	385144	26.19	456369
6	2306	NT10031506S.D	SLC0238-CAL5		1	9.30	188081	11.77	674549	15.39	328275	18.42	597140	23.45	466503	26.19	518203
7	2344	NT10031507S.D	SLC0238-CAL4		1	9.30	191648	11.77	679665	15.39	335786	18.42	613961	23.45	464623	26.19	521317
8	0022	NT10031508S.D	SLC0238-CAL3		1	9.30	188644	11.78	664117	15.38	328147	18.42	603272	23.46	468991	26.18	525052
9	0100	NT10031509S.D	SLC0238-CAL2		1	9.30	190985	11.77	684638	15.39	328366	18.42	602202	23.45	451316	26.19	517188
10	0138	NT10031510S.D	SLC0238-CAL1		1	9.30	187154	11.78	654413	15.38	318969	18.42	583319	23.46	440533	26.19	488759
11	0216	NT10031511S.D	SLC0238-SCV1		1	9.31	166866	11.78	612104	15.39	302524	18.43	553619	23.46	465428	26.19	532593
12	0254	NT10031512S.D	SLC0238-ICB1		1	9.31	189475	11.77	676186	15.38	328650	18.42	617605	23.45	473513	26.19	534734

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230315.b\20230315.b

Instrument: nt10.i Date: 15-MAR-2023

Time	Filename	LabID	DF	Manually Integrated Compounds
2019	NT10031501S.D	SLC0238-TUN1	1	NO MANUAL INTEGRATION
2034	NT10031502S.D	FULL SCAN ONLY	1	NO MANUAL INTEGRATION
2112	NT10031503S.D	SLC0238-CAL8	1	NO MANUAL INTEGRATION
2150	NT10031504S.D	SLC0238-CAL7	1	NO MANUAL INTEGRATION
2228	NT10031505S.D	SLC0238-CAL6	1	NO MANUAL INTEGRATION
2306	NT10031506S.D	SLC0238-CAL5	1	NO MANUAL INTEGRATION
2344	NT10031507S.D	SLC0238-CAL4	1	NO MANUAL INTEGRATION
0022	NT10031508S.D	SLC0238-CAL3	1	Benzoic acid,
0100	NT10031509S.D	SLC0238-CAL2	1	Pentachlorophenol,
0138	NT10031510S.D	SLC0238-CAL1	1	Pentachlorophenol,
0216	NT10031511S.D	SLC0238-SCV1	1	Terphenyl-d14,
0254	NT10031512S.D	SLC0238-ICB1	1	NO MANUAL INTEGRATION

Security Status Report

Date: 16-Mar-2023 14:47

NT10031501S.D	Data Locked	van, 16-Mar-2023 14:47
NT10031502S.D	Data Locked	van, 16-Mar-2023 14:47
NT10031503S.D	Data Locked	van, 16-Mar-2023 14:47
NT10031504S.D	Data Locked	van, 16-Mar-2023 14:47
NT10031505S.D	Data Locked	van, 16-Mar-2023 14:47
NT10031506S.D	Data Locked	van, 16-Mar-2023 14:47
NT10031507S.D	Data Locked	van, 16-Mar-2023 14:47
NT10031508S.D	Data Locked	van, 16-Mar-2023 14:47
NT10031509S.D	Data Locked	van, 16-Mar-2023 14:47
NT10031510S.D	Data Locked	van, 16-Mar-2023 14:47
NT10031511S.D	Data Locked	van, 16-Mar-2023 14:47
NT10031512S.D	Data Locked	van, 16-Mar-2023 14:47

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLC0452	Instrument:	NT10
		Calibration:	GC00049

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
MS Tune	SLC0452-TUN1	NT1003212301S.D	NA	03/21/23 17:30
ABN 1	SLC0452-ICV1	NT1003212303S.D	NA	03/21/23 18:25
ABN 0.1	SLC0452-LCV1	NT1003212305S.D	NA	03/21/23 19:43
Blank	BLC0109-BLK2	NT1003212306S.D	Solid	03/21/23 20:21
LCS	BLC0109-BS2	NT1003212307S.D	Solid	03/21/23 21:00
LCS Dup	BLC0109-BSD2	NT1003212308S.D	Solid	03/21/23 21:39
Reference	BLC0109-SRM2	NT1003212309S.D	Solid	03/21/23 22:18
LDW23-SS1000	23C0071-01	NT1003212310S.D	Solid	03/21/23 22:56
LDW23-SS1037	23C0071-02	NT1003212311S.D	Solid	03/21/23 23:35
LDW23-SS1036	23C0071-03	NT1003212312S.D	Solid	03/22/23 00:13
LDW23-SS1044	23C0071-04	NT1003212313S.D	Solid	03/22/23 00:52
LDW23-SS1048	23C0071-05	NT1003212314S.D	Solid	03/22/23 01:30
LDW23-SS1048	BLC0109-MS2	NT1003212315S.D	Solid	03/22/23 02:08
LDW23-SS1048	BLC0109-MSD2	NT1003212316S.D	Solid	03/22/23 02:46
LDW23-SS1054	23C0071-06	NT1003212317S.D	Solid	03/22/23 03:25
ABN 1	SLC0452-CCV1	NT1003212319S.D	NA	03/22/23 04:41

ANALYSIS SEQUENCE

SLC0452

Instrument ID: NT10
Calibration ID: GC00049
MS EM Level: 1365 EV

GCMS Description: Agilent 5975/MS http://bi
GCMS Column ID: L002830

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	File ID	Analyst	Comments
SLC0452-TUN1	MS Tune	QC		1	L002618		03/21/2023 17:30	NT1003212301S.D	JGR	
SLC0452-ICV1	ABN 1	QC		2	K011107	K010831	03/21/2023 18:25	NT1003212303S.D	JGR	
SLC0452-LCV1	ABN 0.1	QC		3	L002877	K010831	03/21/2023 19:43	NT1003212305S.D	JGR	
BLC0109-BLK2	Blank	QC		4		K010831	03/21/2023 20:21	NT1003212306S.D	JGR	
BLC0109-BS2	LCS	QC		5		K010831	03/21/2023 21:00	NT1003212307S.D	JGR	
BLC0109-BSD2	LCS Dup	QC		6		K010831	03/21/2023 21:39	NT1003212308S.D	JGR	
BLC0109-SRM2	Reference	QC		7		K010831	03/21/2023 22:18	NT1003212309S.D	JGR	
23C0071-01	LDW23-SS1000	270E-SIM Dual Scan SVO	A 02	8		K010831	03/21/2023 22:56	NT1003212310S.D	JGR	
23C0071-02	LDW23-SS1037	270E-SIM Dual Scan SVO	A 02	9		K010831	03/21/2023 23:35	NT1003212311S.D	JGR	
23C0071-04	LDW23-SS1044	270E-SIM Dual Scan SVO	A 02	10		K010831	03/22/2023 00:52	NT1003212313S.D	JGR	
23C0071-03	LDW23-SS1036	270E-SIM Dual Scan SVO	A 02	11		K010831	03/22/2023 00:13	NT1003212312S.D	JGR	
23C0071-05	LDW23-SS1048	270E-SIM Dual Scan SVO	A 02	12		K010831	03/22/2023 01:30	NT1003212314S.D	JGR	
BLC0109-MS2	Matrix Spike	QC		13		K010831	03/22/2023 02:08	NT1003212315S.D	JGR	
BLC0109-MSD2	Matrix Spike Dup	QC		14		K010831	03/22/2023 02:46	NT1003212316S.D	JGR	
23C0071-06	LDW23-SS1054	270E-SIM Dual Scan SVO	A 02	15		K010831	03/22/2023 03:25	NT1003212317S.D	JGR	
SLC0452-CCV1	ABN 1	QC		16	K011107	K010831	03/22/2023 04:41	NT1003212319S.D	JGR	

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230321.b\20230321.b

	Time	Filename	LabID	ClientId	DF												
1	1730	NT1003212301S.D	SLC0451-TUN1		1	NO ISTDS FOUND											
2	1746	NT1003212302S.D			1	NO ISTDS FOUND											
3	1825	NT1003212303S.D	SLC0452-ICV1		1	9.11	162628	11.59	580280	15.18	297255	18.20	561093	23.23	498827	25.84	558480
4	1904	NT1003212304S.D			1	NO ISTDS FOUND											
5	1943	NT1003212305S.D	SLC0452-LCV1		1	9.11	167356	11.59	586768	15.18	291797	18.20	533848	23.23	465599	25.84	520287
6	2021	NT1003212306S.D	BLC0109-BLK2		1	9.11	194497	11.58	690560	15.18	343359	18.20	632591	23.23	536480	25.84	570644
7	2100	NT1003212307S.D	BLC0109-BS2		1	9.11	220851	11.59	797097	15.18	409118	18.20	793620	23.23	677903	25.84	731429
8	2139	NT1003212308S.D	BLC0109-BSD2		1	9.11	200804	11.58	727283	15.18	369971	18.20	715235	23.23	606706	25.85	644800
9	2218	NT1003212309S.D	BLC0109-SRM2		1	9.11	203557	11.58	714736	15.18	362644	18.20	689280	23.23	586323	25.84	665521
10	2256	NT1003212310S.D	23C0071-01		1	9.11	221349	11.58	790366	15.18	402294	18.20	810877	23.24	772638	25.87	924991
11	2335	NT1003212311S.D	23C0071-02		1	9.11	233169	11.58	828013	15.18	406022	18.20	854727	23.24	758809	25.86	900886
12	0013	NT1003212312S.D	23C0071-03		1	9.11	233655	11.58	836002	15.18	406868	18.20	842614	23.24	766908	25.86	909640
13	0052	NT1003212313S.D	23C0071-04		1	9.11	225415	11.58	798613	15.17	389627	18.19	798899	23.24	744124	25.86	885097
14	0130	NT1003212314S.D	23C0071-05		1	9.10	218417	11.57	773035	15.17	376491	18.20	762766	23.23	700274	25.85	844593
15	0208	NT1003212315S.D	BLC0109-MS2		1	9.10	219503	11.58	798072	15.18	389217	18.20	818299	23.23	753767	25.86	870858
16	0246	NT1003212316S.D	BLC0109-MSD2		1	9.10	203292	11.57	733288	15.17	363068	18.19	770089	23.23	694379	25.86	804055
17	0325	NT1003212317S.D	23C0071-06		1	9.10	210459	11.57	753314	15.17	365982	18.20	795312	23.23	698329	25.85	797285
18	0403	NT1003212318S.D	SEQ-CCVFULL		1	9.10	161863	11.58	581345	15.17	291166	18.19	598831	23.23	554527	25.85	661899
19	0441	NT1003212319S.D	SLC0452-CCV1		1	9.10	164566	11.57	579506	15.17	289996	18.19	579070	23.23	545150	25.84	650069

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230321.b\20230321.b

Instrument: nt10.i Date: 21-MAR-2023

Time	Filename	LabID	DF	Manually Integrated Compounds
1730	NT1003212301S.D	SLC0452-TUN1	1	NO MANUAL INTEGRATION
1746	NT1003212302S.D		1	NO MANUAL INTEGRATION
1825	NT1003212303S.D	SLC0452-ICV1	1	NO MANUAL INTEGRATION
1904	NT1003212304S.D		1	NO MANUAL INTEGRATION
1943	NT1003212305S.D	SLC0452-LCV1	1	Benzoic acid, Pentachlorophenol,
2021	NT1003212306S.D	BLC0109-BLK2	1	Hexachlorobutadiene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,2-Dichlorobenzene, N-Nitroso-di-n-propylamine, Dimethylphthalate, Hexachlorobenzene, Pentachlorophenol, Dibenzo(a,h)anthracene,
2100	NT1003212307S.D	BLC0109-BS2	1	NO MANUAL INTEGRATION
2139	NT1003212308S.D	BLC0109-BSD2	1	NO MANUAL INTEGRATION
2218	NT1003212309S.D	BLC0109-SRM2	1	Benzyl alcohol,
2256	NT1003212310S.D	23C0071-01	1	Hexachlorobutadiene, 1,4-Dichlorobenzene, 2-Methylphenol, Hexachlorobenzene,
2335	NT1003212311S.D	23C0071-02	1	Hexachlorobutadiene, 1,2-Dichlorobenzene, 1,2,4-Trichlorobenzene, Diethylphthalate, Hexachlorobenzene, Pentach
0013	NT1003212312S.D	23C0071-03	1	1,4-Dichlorobenzene, 1,2,4-Trichlorobenzene, Diethylphthalate,
0052	NT1003212313S.D	23C0071-04	1	1,4-Dichlorobenzene, 1,2,4-Trichlorobenzene, Diethylphthalate, Hexachlorobenzene,
0130	NT1003212314S.D	23C0071-05	1	Hexachlorobutadiene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 2,4-Dimethylphenol, Benzoic acid, 1,2,4-Trichlo Hexachlorobenzene,
0208	NT1003212315S.D	BLC0109-MS2	1	NO MANUAL INTEGRATION
0246	NT1003212316S.D	BLC0109-MSD2	1	NO MANUAL INTEGRATION
0325	NT1003212317S.D	23C0071-06	1	Hexachlorobutadiene, 1,4-Dichlorobenzene, 2-Methylphenol, 1,2,4-Trichlorobenzene, Diethylphthalate, Hexachloro Pentachlorophenol,

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230321.b\20230321.b page

Instrument: nt10.i Date: 22-MAR-2023

Time	Filename	LabID	DF	Manually Integrated Compounds
0403	NT1003212318S.D	SEQ-CCVFULL	1	NO MANUAL INTEGRATION
0441	NT1003212319S.D	SLC0452-CCV1	1	NO MANUAL INTEGRATION

Security Status Report

Date: 29-Mar-2023 13:31

NT1003212301S.D	Data Locked	van, 29-Mar-2023 13:31
NT1003212302S.D	Data Locked	van, 29-Mar-2023 13:31
NT1003212303S.D	Data Locked	van, 29-Mar-2023 13:31
NT1003212304S.D	Data Locked	van, 29-Mar-2023 13:31
NT1003212305S.D	Data Locked	van, 29-Mar-2023 13:31
NT1003212306S.D	Data Locked	van, 29-Mar-2023 13:31
NT1003212307S.D	Data Locked	van, 29-Mar-2023 13:31
NT1003212308S.D	Data Locked	van, 29-Mar-2023 13:31
NT1003212309S.D	Data Locked	van, 29-Mar-2023 13:31
NT1003212310S.D	Data Locked	van, 29-Mar-2023 13:31
NT1003212311S.D	Data Locked	van, 29-Mar-2023 13:31
NT1003212312S.D	Data Locked	van, 29-Mar-2023 13:31
NT1003212313S.D	Data Locked	van, 29-Mar-2023 13:31
NT1003212314S.D	Data Locked	van, 29-Mar-2023 13:31
NT1003212315S.D	Data Locked	van, 29-Mar-2023 13:31
NT1003212316S.D	Data Locked	van, 29-Mar-2023 13:31
NT1003212317S.D	Data Locked	van, 29-Mar-2023 13:31
NT1003212318S.D	Data Locked	van, 29-Mar-2023 13:31
NT1003212319S.D	Data Locked	van, 29-Mar-2023 13:31

SURROGATE RECOVERY AND RT SUMMARY
EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG/WO:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLC0238	Instrument:	NT10
Calibration:	GC00049	Calibration Date:	03/16/2023

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SLC0238-SCV1 (Solid)			Lab File ID: NT10031511S.D			Analyzed: 03/16/23 02:16		
2-Fluorophenol	7.5000		0 - 200		7.07175	-7.0718	N/A	
p-Terphenyl-d14	5.0000	0.0308	0 - 200	21.543	21.54237	0.0006	N/A	
SLC0238-ICB1 (Solid)			Lab File ID: NT10031512S.D			Analyzed: 03/16/23 02:54		
2-Fluorophenol	7.5000	91.0	27 - 120	7.072	7.07175	0.0003	N/A	
p-Terphenyl-d14	5.0000	88.4	37 - 120	21.542	21.54237	-0.0004	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG/WO:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLC0452	Instrument:	NT10
Calibration:	GC00049	Calibration Date:	03/16/2023

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SLC0452-ICV1 (Solid)			Lab File ID: NT1003212303S.D			Analyzed: 03/21/23 18:25		
2-Fluorophenol	1.5000	103	80 - 120	6.895	7.07175	-0.1768	N/A	
p-Terphenyl-d14	1.0000	93.3	80 - 120	21.337	21.54237	-0.2054	N/A	
SLC0452-LCV1 (Solid)			Lab File ID: NT1003212305S.D			Analyzed: 03/21/23 19:43		
2-Fluorophenol	0.15000	94.6	0 - 200	6.895	7.07175	-0.1768	N/A	
p-Terphenyl-d14	0.10000	94.0	0 - 200	21.33	21.54237	-0.2124	N/A	
BLC0109-BLK2 (Solid)			Lab File ID: NT1003212306S.D			Analyzed: 03/21/23 20:21		
2-Fluorophenol	750.00	53.2	27 - 120	6.895	7.07175	-0.1768	N/A	
p-Terphenyl-d14	500.00	70.6	37 - 120	21.329	21.54237	-0.2134	N/A	
BLC0109-BS2 (Solid)			Lab File ID: NT1003212307S.D			Analyzed: 03/21/23 21:00		
2-Fluorophenol	750.00	66.1	27 - 120	6.895	7.07175	-0.1768	N/A	
p-Terphenyl-d14	500.00	78.9	37 - 120	21.329	21.54237	-0.2134	N/A	
BLC0109-BSD2 (Solid)			Lab File ID: NT1003212308S.D			Analyzed: 03/21/23 21:39		
2-Fluorophenol	750.00	75.5	27 - 120	6.895	7.07175	-0.1768	N/A	
p-Terphenyl-d14	500.00	86.7	37 - 120	21.33	21.54237	-0.2124	N/A	
BLC0109-SRM2 (Solid)			Lab File ID: NT1003212309S.D			Analyzed: 03/21/23 22:18		
2-Fluorophenol	7500.0	70.0	27 - 120	6.895	7.07175	-0.1768	N/A	
p-Terphenyl-d14	5000.0	86.3	37 - 120	21.33	21.54237	-0.2124	N/A	
23C0071-01 (Solid)			Lab File ID: NT1003212310S.D			Analyzed: 03/21/23 22:56		
2-Fluorophenol	746.42	60.9	27 - 120	6.895	7.07175	-0.1768	N/A	
p-Terphenyl-d14	497.61	81.9	37 - 120	21.337	21.54237	-0.2054	N/A	
23C0071-02 (Solid)			Lab File ID: NT1003212311S.D			Analyzed: 03/21/23 23:35		
2-Fluorophenol	739.88	69.0	27 - 120	6.895	7.07175	-0.1768	N/A	
p-Terphenyl-d14	493.25	97.8	37 - 120	21.337	21.54237	-0.2054	N/A	
23C0071-03 (Solid)			Lab File ID: NT1003212312S.D			Analyzed: 03/22/23 00:13		
2-Fluorophenol	730.93	75.7	27 - 120	6.895	7.07175	-0.1768	N/A	
p-Terphenyl-d14	487.29	99.4	37 - 120	21.337	21.54237	-0.2054	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG/WO:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLC0452	Instrument:	NT10
Calibration:	GC00049	Calibration Date:	03/16/2023

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
23C0071-04 (Solid)			Lab File ID: NT1003212313S.D				Analyzed: 03/22/23 00:52	
2-Fluorophenol	749.26	66.4	27 - 120	6.895	7.07175	-0.1768	N/A	
p-Terphenyl-d14	499.51	88.7	37 - 120	21.337	21.54237	-0.2054	N/A	
23C0071-05 (Solid)			Lab File ID: NT1003212314S.D				Analyzed: 03/22/23 01:30	
2-Fluorophenol	750.00	75.9	27 - 120	6.887	7.07175	-0.1848	N/A	
p-Terphenyl-d14	500.00	92.1	37 - 120	21.329	21.54237	-0.2134	N/A	
BLC0109-MS2 (Solid)			Lab File ID: NT1003212315S.D				Analyzed: 03/22/23 02:08	
2-Fluorophenol	750.00	66.5	27 - 120	6.895	7.07175	-0.1768	N/A	
p-Terphenyl-d14	500.00	88.4	37 - 120	21.33	21.54237	-0.2124	N/A	
BLC0109-MSD2 (Solid)			Lab File ID: NT1003212316S.D				Analyzed: 03/22/23 02:46	
2-Fluorophenol	750.00	67.0	27 - 120	6.887	7.07175	-0.1848	N/A	
p-Terphenyl-d14	500.00	94.5	37 - 120	21.329	21.54237	-0.2134	N/A	
23C0071-06 (Solid)			Lab File ID: NT1003212317S.D				Analyzed: 03/22/23 03:25	
2-Fluorophenol	743.98	54.6	27 - 120	6.887	7.07175	-0.1848	N/A	
p-Terphenyl-d14	495.98	90.5	37 - 120	21.337	21.54237	-0.2054	N/A	
SLC0452-CCV1 (Solid)			Lab File ID: NT1003212319S.D				Analyzed: 03/22/23 04:41	
2-Fluorophenol	1.5000	108	50 - 150	6.88	7.07175	-0.1918	N/A	
p-Terphenyl-d14	1.0000	102	50 - 150	21.33	21.54237	-0.2124	N/A	

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270E-SIM

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLC0238
Instrument: NT10
Calibration: GC00049

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Secondary Cal Check (SLC0238-SCV1)		(Solid)		Lab File ID: NT10031511S.D				Analyzed: 03/16/23 02:16	
1,4-Dichlorobenzene-d4	166866	9.306	188081	9.298	89	50 - 200	0.008	+/-0.50	
Naphthalene-d8	612104	11.775	674549	11.774	91	50 - 200	0.001	+/-0.50	
Acenaphthene-d10	302524	15.388	328275	15.387	92	50 - 200	0.001	+/-0.50	
Phenanthrene-d10	553619	18.425	597140	18.424	93	50 - 200	0.001	+/-0.50	
Chrysene-d12	465428	23.455	466503	23.454	100	50 - 200	0.001	+/-0.50	
Perylene-d12	532593	26.188	518203	26.187	103	50 - 200	0.001	+/-0.50	
Initial Cal Blank (SLC0238-ICB1)		(Solid)		Lab File ID: NT10031512S.D				Analyzed: 03/16/23 02:54	
1,4-Dichlorobenzene-d4	189475	9.306	188081	9.298	101	50 - 200	0.008	+/-0.50	
Naphthalene-d8	676186	11.774	674549	11.774	100	50 - 200	0.000	+/-0.50	
Acenaphthene-d10	328650	15.379	328275	15.387	100	50 - 200	-0.008	+/-0.50	
Phenanthrene-d10	617605	18.424	597140	18.424	103	50 - 200	0.000	+/-0.50	
Chrysene-d12	473513	23.454	466503	23.454	102	50 - 200	0.000	+/-0.50	
Perylene-d12	534734	26.187	518203	26.187	103	50 - 200	0.000	+/-0.50	

Analytical Resources, LLC
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLC0452	Instrument:	NT10
		Calibration:	GC00049

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (SLC0452-ICV1)		(Solid)	Lab File ID: NT1003212303S.D				Analyzed: 03/21/23 18:25		
1,4-Dichlorobenzene-d4	162628	9.105	162628	9.105	100	50 - 200	0.000	+/-0.50	
Naphthalene-d8	580280	11.585	580280	11.585	100	50 - 200	0.000	+/-0.50	
Acenaphthene-d10	297255	15.183	297255	15.183	100	50 - 200	0.000	+/-0.50	
Phenanthrene-d10	561093	18.196	561093	18.196	100	50 - 200	0.000	+/-0.50	
Chrysene-d12	498827	23.234	498827	23.234	100	50 - 200	0.000	+/-0.50	
Perylene-d12	558480	25.836	558480	25.836	100	50 - 200	0.000	+/-0.50	
Low Cal Check (SLC0452-LCV1)		(Solid)	Lab File ID: NT1003212305S.D				Analyzed: 03/21/23 19:43		
1,4-Dichlorobenzene-d4	167356	9.105	162628	9.105	103	50 - 200	0.000	+/-0.50	
Naphthalene-d8	586768	11.585	580280	11.585	101	50 - 200	0.000	+/-0.50	
Acenaphthene-d10	291797	15.175	297255	15.183	98	50 - 200	-0.008	+/-0.50	
Phenanthrene-d10	533848	18.196	561093	18.196	95	50 - 200	0.000	+/-0.50	
Chrysene-d12	465599	23.227	498827	23.234	93	50 - 200	-0.007	+/-0.50	
Perylene-d12	520287	25.836	558480	25.836	93	50 - 200	0.000	+/-0.50	
Blank (BLC0109-BLK2)		(Solid)	Lab File ID: NT1003212306S.D				Analyzed: 03/21/23 20:21		
1,4-Dichlorobenzene-d4	194497	9.113	162628	9.105	120	50 - 200	0.008	+/-0.50	
Naphthalene-d8	690560	11.577	580280	11.585	119	50 - 200	-0.008	+/-0.50	
Acenaphthene-d10	343359	15.175	297255	15.183	116	50 - 200	-0.008	+/-0.50	
Phenanthrene-d10	632591	18.196	561093	18.196	113	50 - 200	0.000	+/-0.50	
Chrysene-d12	536480	23.226	498827	23.234	108	50 - 200	-0.008	+/-0.50	
Perylene-d12	570644	25.836	558480	25.836	102	50 - 200	0.000	+/-0.50	
LCS (BLC0109-BS2)		(Solid)	Lab File ID: NT1003212307S.D				Analyzed: 03/21/23 21:00		
1,4-Dichlorobenzene-d4	220851	9.113	162628	9.105	136	50 - 200	0.008	+/-0.50	
Naphthalene-d8	797097	11.585	580280	11.585	137	50 - 200	0.000	+/-0.50	
Acenaphthene-d10	409118	15.175	297255	15.183	138	50 - 200	-0.008	+/-0.50	
Phenanthrene-d10	793620	18.196	561093	18.196	141	50 - 200	0.000	+/-0.50	
Chrysene-d12	677903	23.226	498827	23.234	136	50 - 200	-0.008	+/-0.50	
Perylene-d12	731429	25.835	558480	25.836	131	50 - 200	-0.001	+/-0.50	

Analytical Resources, LLC
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLC0452	Instrument:	NT10
		Calibration:	GC00049

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
LCS Dup (BLC0109-BSD2)		(Solid)	Lab File ID: NT1003212308S.D				Analyzed: 03/21/23 21:39		
1,4-Dichlorobenzene-d4	200804	9.105	162628	9.105	123	50 - 200	0.000	+/-0.50	
Naphthalene-d8	727283	11.577	580280	11.585	125	50 - 200	-0.008	+/-0.50	
Acenaphthene-d10	369971	15.175	297255	15.183	124	50 - 200	-0.008	+/-0.50	
Phenanthrene-d10	715235	18.196	561093	18.196	127	50 - 200	0.000	+/-0.50	
Chrysene-d12	606706	23.234	498827	23.234	122	50 - 200	0.000	+/-0.50	
Perylene-d12	644800	25.851	558480	25.836	115	50 - 200	0.015	+/-0.50	
Reference (BLC0109-SRM2)		(Solid)	Lab File ID: NT1003212309S.D				Analyzed: 03/21/23 22:18		
1,4-Dichlorobenzene-d4	203557	9.105	162628	9.105	125	50 - 200	0.000	+/-0.50	
Naphthalene-d8	714736	11.577	580280	11.585	123	50 - 200	-0.008	+/-0.50	
Acenaphthene-d10	362644	15.175	297255	15.183	122	50 - 200	-0.008	+/-0.50	
Phenanthrene-d10	689280	18.196	561093	18.196	123	50 - 200	0.000	+/-0.50	
Chrysene-d12	586323	23.227	498827	23.234	118	50 - 200	-0.007	+/-0.50	
Perylene-d12	665521	25.836	558480	25.836	119	50 - 200	0.000	+/-0.50	
LDW23-SS1000 (23C0071-01)		(Solid)	Lab File ID: NT1003212310S.D				Analyzed: 03/21/23 22:56		
1,4-Dichlorobenzene-d4	221349	9.105	162628	9.105	136	50 - 200	0.000	+/-0.50	
Naphthalene-d8	790366	11.577	580280	11.585	136	50 - 200	-0.008	+/-0.50	
Acenaphthene-d10	402294	15.175	297255	15.183	135	50 - 200	-0.008	+/-0.50	
Phenanthrene-d10	810877	18.196	561093	18.196	145	50 - 200	0.000	+/-0.50	
Chrysene-d12	772638	23.242	498827	23.234	155	50 - 200	0.008	+/-0.50	
Perylene-d12	924991	25.867	558480	25.836	166	50 - 200	0.031	+/-0.50	
LDW23-SS1037 (23C0071-02)		(Solid)	Lab File ID: NT1003212311S.D				Analyzed: 03/21/23 23:35		
1,4-Dichlorobenzene-d4	233189	9.105	162628	9.105	143	50 - 200	0.000	+/-0.50	
Naphthalene-d8	828013	11.577	580280	11.585	143	50 - 200	-0.008	+/-0.50	
Acenaphthene-d10	406022	15.175	297255	15.183	137	50 - 200	-0.008	+/-0.50	
Phenanthrene-d10	854727	18.196	561093	18.196	152	50 - 200	0.000	+/-0.50	
Chrysene-d12	758809	23.242	498827	23.234	152	50 - 200	0.008	+/-0.50	
Perylene-d12	900886	25.859	558480	25.836	161	50 - 200	0.023	+/-0.50	

Analytical Resources, LLC
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270E-SIM

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLC0452	Instrument:	NT10
		Calibration:	GC00049

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
LDW23-SS1036 (23C0071-03)		(Solid)	Lab File ID: NT1003212312S.D				Analyzed: 03/22/23 00:13		
1,4-Dichlorobenzene-d4	233655	9.105	162628	9.105	144	50 - 200	0.000	+/-0.50	
Naphthalene-d8	836002	11.577	580280	11.585	144	50 - 200	-0.008	+/-0.50	
Acenaphthene-d10	406868	15.175	297255	15.183	137	50 - 200	-0.008	+/-0.50	
Phenanthrene-d10	842614	18.196	561093	18.196	150	50 - 200	0.000	+/-0.50	
Chrysene-d12	766908	23.242	498827	23.234	154	50 - 200	0.008	+/-0.50	
Perylene-d12	909640	25.859	558480	25.836	163	50 - 200	0.023	+/-0.50	
LDW23-SS1044 (23C0071-04)		(Solid)	Lab File ID: NT1003212313S.D				Analyzed: 03/22/23 00:52		
1,4-Dichlorobenzene-d4	225415	9.105	162628	9.105	139	50 - 200	0.000	+/-0.50	
Naphthalene-d8	798613	11.577	580280	11.585	138	50 - 200	-0.008	+/-0.50	
Acenaphthene-d10	389627	15.167	297255	15.183	131	50 - 200	-0.016	+/-0.50	
Phenanthrene-d10	798899	18.188	561093	18.196	142	50 - 200	-0.008	+/-0.50	
Chrysene-d12	744124	23.242	498827	23.234	149	50 - 200	0.008	+/-0.50	
Perylene-d12	885097	25.859	558480	25.836	158	50 - 200	0.023	+/-0.50	
LDW23-SS1048 (23C0071-05)		(Solid)	Lab File ID: NT1003212314S.D				Analyzed: 03/22/23 01:30		
1,4-Dichlorobenzene-d4	218417	9.097	162628	9.105	134	50 - 200	-0.008	+/-0.50	
Naphthalene-d8	773035	11.57	580280	11.585	133	50 - 200	-0.015	+/-0.50	
Acenaphthene-d10	376491	15.167	297255	15.183	127	50 - 200	-0.016	+/-0.50	
Phenanthrene-d10	762766	18.196	561093	18.196	136	50 - 200	0.000	+/-0.50	
Chrysene-d12	700274	23.234	498827	23.234	140	50 - 200	0.000	+/-0.50	
Perylene-d12	844593	25.851	558480	25.836	151	50 - 200	0.015	+/-0.50	
Matrix Spike (BLC0109-MS2)		(Solid)	Lab File ID: NT1003212315S.D				Analyzed: 03/22/23 02:08		
1,4-Dichlorobenzene-d4	219503	9.097	162628	9.105	135	50 - 200	-0.008	+/-0.50	
Naphthalene-d8	798072	11.577	580280	11.585	138	50 - 200	-0.008	+/-0.50	
Acenaphthene-d10	389217	15.175	297255	15.183	131	50 - 200	-0.008	+/-0.50	
Phenanthrene-d10	818299	18.196	561093	18.196	146	50 - 200	0.000	+/-0.50	
Chrysene-d12	753767	23.234	498827	23.234	151	50 - 200	0.000	+/-0.50	
Perylene-d12	870858	25.859	558480	25.836	156	50 - 200	0.023	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270E-SIM

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLC0452
SDG: 23C0071
Project: AOC5 MR Phase 1
Instrument: NT10
Calibration: GC00049

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Matrix Spike Dup (BLC0109-MSD2)		(Solid)	Lab File ID: NT1003212316S.D					Analyzed: 03/22/23 02:46	
1,4-Dichlorobenzene-d4	203292	9.097	162628	9.105	125	50 - 200	-0.008	+/-0.50	
Naphthalene-d8	733288	11.57	580280	11.585	126	50 - 200	-0.015	+/-0.50	
Acenaphthene-d10	363068	15.167	297255	15.183	122	50 - 200	-0.016	+/-0.50	
Phenanthrene-d10	770089	18.188	561093	18.196	137	50 - 200	-0.008	+/-0.50	
Chrysene-d12	694379	23.234	498827	23.234	139	50 - 200	0.000	+/-0.50	
Perylene-d12	804055	25.859	558480	25.836	144	50 - 200	0.023	+/-0.50	
LDW23-SS1054 (23C0071-06)		(Solid)	Lab File ID: NT1003212317S.D					Analyzed: 03/22/23 03:25	
1,4-Dichlorobenzene-d4	210459	9.098	162628	9.105	129	50 - 200	-0.007	+/-0.50	
Naphthalene-d8	753314	11.57	580280	11.585	130	50 - 200	-0.015	+/-0.50	
Acenaphthene-d10	365982	15.167	297255	15.183	123	50 - 200	-0.016	+/-0.50	
Phenanthrene-d10	795312	18.196	561093	18.196	142	50 - 200	0.000	+/-0.50	
Chrysene-d12	698329	23.234	498827	23.234	140	50 - 200	0.000	+/-0.50	
Perylene-d12	797285	25.851	558480	25.836	143	50 - 200	0.015	+/-0.50	
Calibration Check (SLC0452-CCV1)		(Solid)	Lab File ID: NT1003212319S.D					Analyzed: 03/22/23 04:41	
1,4-Dichlorobenzene-d4	164566	9.098	162628	9.105	101	50 - 200	-0.007	+/-0.50	
Naphthalene-d8	579506	11.57	580280	11.585	100	50 - 200	-0.015	+/-0.50	
Acenaphthene-d10	289996	15.167	297255	15.183	98	50 - 200	-0.016	+/-0.50	
Phenanthrene-d10	579070	18.188	561093	18.196	103	50 - 200	-0.008	+/-0.50	
Chrysene-d12	545150	23.227	498827	23.234	109	50 - 200	-0.007	+/-0.50	
Perylene-d12	650069	25.843	558480	25.836	116	50 - 200	0.007	+/-0.50	

HOLDING TIME SUMMARY

Analysis: EPA 8270E-SIM

Laboratory: Analytical Resources, LLC SDG: 23C0071

Client: Anchor QEA, LLC Project: AOC5 MR Phase 1

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
LDW23-SS1000 23C0071-01	03/02/23 09:33	03/02/23 16:34	03/07/23 10:21	5	365	03/21/23 22:56	15	40	
LDW23-SS1037 23C0071-02	03/02/23 09:56	03/02/23 16:34	03/07/23 10:21	5	365	03/21/23 23:35	15	40	
LDW23-SS1036 23C0071-03	03/02/23 10:10	03/02/23 16:34	03/07/23 10:21	5	365	03/22/23 00:13	15	40	
LDW23-SS1044 23C0071-04	03/02/23 10:22	03/02/23 16:34	03/07/23 10:21	4	365	03/22/23 00:52	15	40	
LDW23-SS1048 23C0071-05	03/02/23 10:32	03/02/23 16:34	03/07/23 10:21	4	365	03/22/23 01:30	15	40	
LDW23-SS1054 23C0071-06	03/02/23 10:41	03/02/23 16:34	03/07/23 10:21	4	365	03/22/23 03:25	15	40	
Matrix Spike BLC0109-MS2	03/02/23 10:32	03/02/23 16:34	03/07/23 10:21	4	365	03/22/23 02:08	15	40	
Matrix Spike Dup BLC0109-MSD2	03/02/23 10:32	03/02/23 16:34	03/07/23 10:21	4	365	03/22/23 02:46	15	40	

* Indicates hold time exceedance.

METHOD DETECTION AND REPORTING LIMITS

EPA 8270E-SIM

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Matrix: Solid
Instrument: NT10

Analyte	MDL	RL	Units
1,4-Dichlorobenzene	0.6	5.0	ug/kg
1,2-Dichlorobenzene	0.7	5.0	ug/kg
Benzyl Alcohol	2.5	20.0	ug/kg
Benzoic acid	13.4	100	ug/kg
2,4-Dimethylphenol	2.2	20.0	ug/kg
1,2,4-Trichlorobenzene	2.7	5.0	ug/kg
N-Nitrosodiphenylamine	1.3	5.0	ug/kg
Pentachlorophenol	2.1	20.0	ug/kg

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer: NA

Chemical: Tributyl Phosphate

Manufacturer: Chemservice

Product #: O-916

Lot #: 59-57A

Purity: 99%

Analyst: VB

Element: B000954

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B001873

Printed: 9/23/2013 11:47:03AM

Description:	SVOC 4,4 DDT	Expires:	31-Dec-29
Standard Type:	Calibration Stan	Prepared:	23-Sep-13
Solvent:	N/A	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	23-Sep-13 11:46 by JZ
Vendor:	Chem Service	Lot #:	198-128A
Vendor Catalog #:			

Comments

Neat, Purity @ 99.2%. (ARI#: 790A)

Analyte	CAS Number	Concentration	Units
4,4'-DDT	50-29-3	1000000	ug/mL

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer: _____

Chemical: 4,4' DDT

Manufacturer: Chem Service

Product #: _____

Lot #: 198-128A

Purity: 99.2%

Analyst: AB

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B001875

Printed: 9/23/2013 12:13:55PM

Description:	SVOC alpha-Terpineol	Expires:	31-Dec-29
Standard Type:	Calibration Stan	Prepared:	31-Dec-12
Solvent:	N/A	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	23-Sep-13 12:13 by JZ
Vendor:	ACROS Organics	Lot #:	AD16481201
Vendor Catalog #:			

Comments

Neat, Purity @ 98%. (ARI#: I1582A)

Analyte	CAS Number	Concentration	Units
alpha-Terpineol	98-55-5	1000000	ug/mL

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer:_____

Chemical: alpha-Terpineol

Manufacturer: Acros Organics

Product #: _____

Lot #: A0648170 1

Purity: 98%

Analyst: [signature]

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B001885

Printed: 9/23/2013 3:45:57PM

Description:	SVOA Dibutyl Phenyl phosphate	Expires:	31-Dec-29
Standard Type:	Calibration Stan	Prepared:	31-Dec-12
Solvent:	NA	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	23-Sep-13 15:45 by JZ
Vendor:	Monsanto	Lot #:	N/A
Vendor Catalog #:			

Comments

Neat, Purity @ 98.9%.

Analyte	CAS Number	Concentration	Units
Dibutyl Phenyl Phosphate	2528-36-1	1000000	ug/mL

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer:_____

Chemical: Dibutyl Phenyl Phosphate

Manufacturer: Monsanto

Product #: N/A

Lot #: N/A

Purity: 98.9%

Analyst: [signature]

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B001886

Printed: 9/23/2013 3:59:35PM

Description:	SVOC Triphenyl Phosphate	Expires:	31-Dec-29
Standard Type:	Calibration Stan	Prepared:	31-Dec-12
Solvent:	NA	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	23-Sep-13 15:59 by JZ
Vendor:	Aldrich	Lot #:	04902CM
Vendor Catalog #:			

Comments

Neat, Purity @ 99%.

Analyte	CAS Number	Concentration	Units
Triphenyl Phosphate	115-86-6	1000000	ug/mL

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer: _____

Chemical: Triphenyl Phosphate

Manufacturer: Aldrich

Product #: _____

Lot #: 04907CM

Purity: 99%

Analyst: [signature]

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B001887

Printed: 9/23/2013 4:18:55PM

Description:	SVOC Butylated Hydroxytoluene	Expires:	31-Dec-29
Standard Type:	Calibration Stan	Prepared:	31-Dec-12
Solvent:	NA	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	23-Sep-13 16:18 by JZ
Vendor:	SIGMA	Lot #:	39F-0197
Vendor Catalog #:			

Comments

neat,Purity @ 99.9%.

Analyte	CAS Number	Concentration	Units
Butylated Hydroxytoluene	128-37-0	1000000	ug/mL

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer: _____

Chemical: Butylated Hydroxytoluene

Manufacturer: Sigma

Product #: _____

Lot #: 39F-0197

Purity: 99.8%

Analyst: AR

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B001890

Printed: 9/23/2013 5:02:53PM

Description:	SVOC Butyl Diphenyl Phosphate	Expires:	31-Dec-29
Standard Type:	Calibration Stan	Prepared:	31-Dec-12
Solvent:	NA	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	23-Sep-13 17:02 by JZ
Vendor:	Monsanto	Lot #:	N/A
Vendor Catalog #:			

Comments

Neat, Purity @ 98%.

Analyte	CAS Number	Concentration	Units
Butyl Diphenyl Phosphate	2752-95-6	1000000	ug/mL

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer: _____

Chemical: Butyl Diphenyl Phosphate

Manufacturer: Monsanto

Product #: NA

Lot #: NA

Purity: 98%

Analyst: [signature]

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B001941

Printed: 9/25/2013 1:45:31PM

Description:	SVOC 2,4-Dinitrophenol	Expires:	31-Dec-29
Standard Type:	Calibration Stan	Prepared:	25-Sep-13
Solvent:	NA	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	25-Sep-13 13:45 by JZ
Vendor:	SIGMA	Lot #:	65H5021
Vendor Catalog #:			

Comments

Neat, Purity @ 90-95%. (ARI#: 0466)

Analyte	CAS Number	Concentration	Units
2,4-Dinitrophenol	51-28-5	1000000	ug/mL

B001941
SVOA 2,4-Dinitrophenol
Expires 12/31/2029
Prepared By Jianqing Zhou 9/25/2013

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer:_____

Chemical: 2,4-Dinitrophenol

Manufacturer: Sigma

Product #: _____

Lot #: bEH 502 I

Purity: 90 ~ 94%

Analyst: _____

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B001945

Printed: 9/25/2013 3:23:22PM

Description:	SVOC Benzoic Acid	Expires:	31-Dec-29
Standard Type:	Calibration Stan	Prepared:	31-Dec-12
Solvent:	NA	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	25-Sep-13 15:23 by JZ
Vendor:	ACROS Organics	Lot #:	A0224339
Vendor Catalog #:			

Comments

Neat, Purity @ 98%.

Analyte	CAS Number	Concentration	Units
Benzoic acid	65-85-0	1000000	ug/mL

B001945
SVOC Benzoic Acid
Expires 12/31/2029
Prepared By Jianqing Zhou 12/31/2012

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer:_____

Chemical: Benzoic Acid

Manufacturer: Acros Organics

Product #: _____

Lot #: A0224339

Purity: 98%

Analyst: [signature]

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B001948

Printed: 9/25/2013 3:37:51PM

Description:	SVOC 4,6-Dinitro-2-Methylphenol	Expires:	31-Dec-29
Standard Type:	Calibration Stan	Prepared:	25-Sep-13
Solvent:	NA	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	25-Sep-13 15:37 by JZ
Vendor:	Chem Service	Lot #:	179-31A
Vendor Catalog #:			

Comments

Neat, Purity @ 99%. (ARI#: 009A)

Analyte	CAS Number	Concentration	Units
4,6-Dinitro-2-methylphenol	534-52-1	1000000	ug/mL

B001948
SVOA 4,6-Dinitro-2-Methylphenol
Expires 12/31/2029
Prepared By Jianqing Zhou 9/25/2013

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer: _____

Chemical: 4,6-Dinitro-2-Methylphenol

Manufacturer: Chem Service

Product #: _____

Lot #: 179-31A

Purity: 99%

Analyst: KB

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B002054

Printed: 10/4/2013 6:32:21PM

Description:	SVOA 1-Methylnaphthalene	Expires:	02-Apr-14
Standard Type:	Analyte Spike	Prepared:	13-Dec-12
Solvent:	NA	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	04-Oct-13 18:32 by JZ
Vendor:	Chem Service	Lot #:	62-5B
Vendor Catalog #:			

Comments

Neat, Purity @ 99%

Analyte	CAS Number	Concentration	Units
1-Methylnaphthalene	90-12-0	1000000	ug/mL

B002054
SVOA 1-Methylnaphthalene
Solvent / Lot: NA
Prep: 12/13/2012 by JZ
Exp: 12/31/2029
Location:

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer:_____

Chemical: 1-Methyl naphthalene

Manufacturer: Chem Service

Product #: 0787

Lot #: 67-53

Purity: 99%

Analyst: AZ

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B002135

Printed: 10/15/2013 12:07:39PM

Description:	SVOA Benzidine	Expires:	31-Dec-29
Standard Type:	Analyte Spike	Prepared:	15-Oct-13
Solvent:	N/A	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	15-Oct-13 12:07 by JZ
Vendor:	SIGMA	Lot #:	18C0024
Vendor Catalog #:			

Comments

Purity @ 95%. ARI#: 0467.

Analyte	CAS Number	Concentration	Units
Benzidine	92-87-5	1000000	ug/mL

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer:_____

Chemical: Benzidine

Manufacturer: Sigma

Product #: B-3503

Lot #: 18C0024

Purity: 98%

Analyst: [signature]

Certificate of Analysis

Product Name:	1,2,4,5-Tetrachlorobenzene
Product Description:	98%
Product Brand:	Sigma-Aldrich
Product Number:	131857
Molecular Weight:	215.89
CAS Number:	95-94-3

TEST	SPECIFICATION	LOT 19309JR RESULTS
APPEARANCE	WHITE POWDER, CHIPS OR CRYSTALS	WHITE CHIPS
INFRARED SPECTRUM	CONFORMS TO STRUCTURE.	CONFORMS TO STRUCTURE AND STANDARD AS
** **		ILLUSTRATED ON PAGE 1011C OF EDITION I,
** **		VOLUME 1 OF "THE ALDRICH LIBRARY OF FT-IR
** **		SPECTRA".
GAS LIQUID	97.5% (MINIMUM)	99.9 %
QUALITY CONTROL		JULY 1997

Barbara Rajzer, Supervisor
Quality Control
Milwaukee, Wisconsin USA

F009172
SVOC 1,2,4,5-Tetrachlorobenzene
Expires 12/31/2079
Prepared By Joshua Rains 10/6/2017

H000691

Data File: \\target\share\chem2\fid4a.i\20230317.b\423C1703.D

Page 1

Date : 17-MAR-2023 10:46

Client ID:

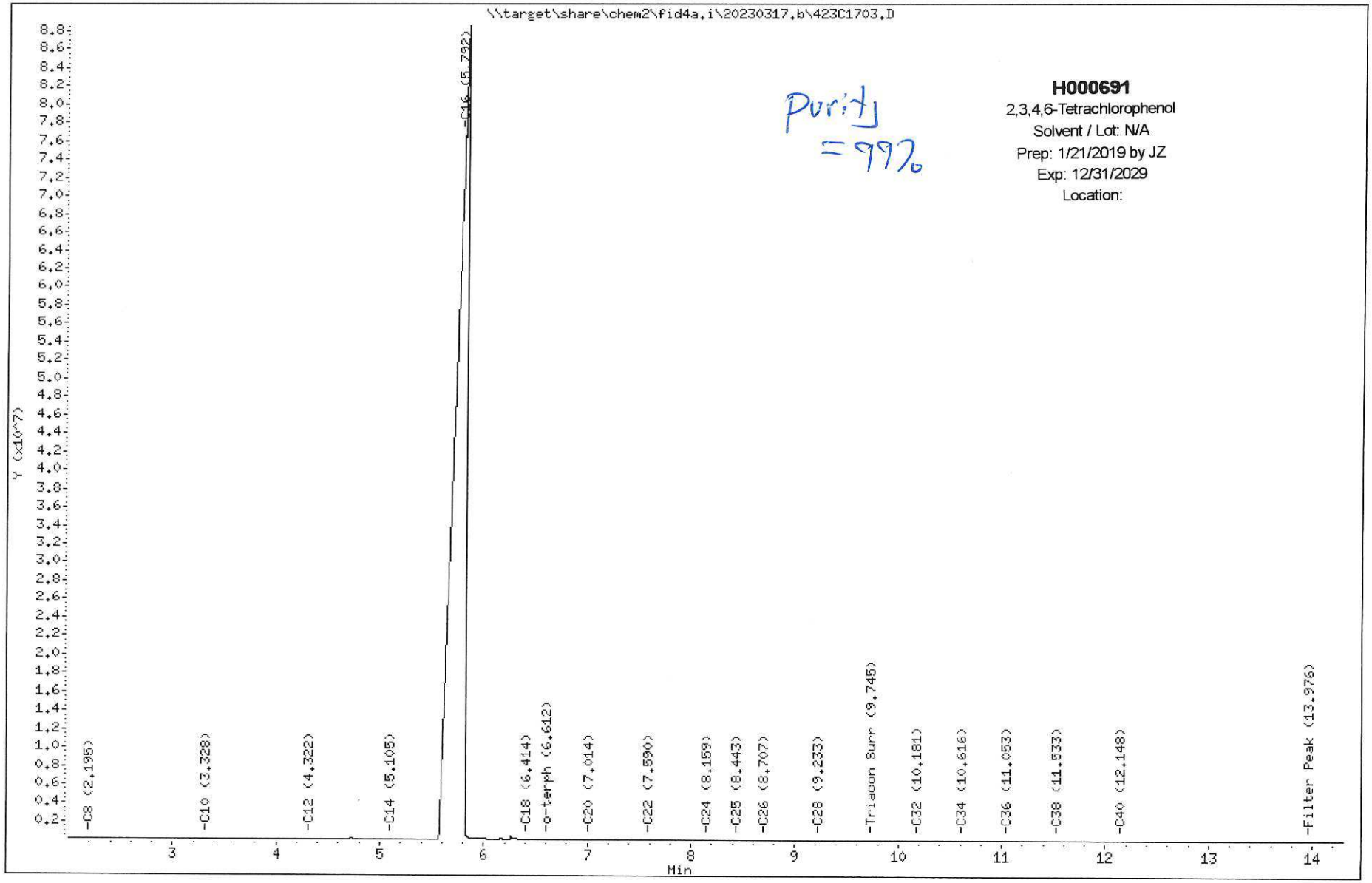
Instrument: fid4a.i

Sample Info: K007226

Operator: AA

Column phase: RTX-1

Column diameter: 0.25



Purity = 99%

H000691
2,3,4,6-Tetrachlorophenol
Solvent / Lot: N/A
Prep: 1/21/2019 by JZ
Exp: 12/31/2029
Location:

ARI Labs, Inc.

Data file : \\target\share\chem2\fid4a.i\20230317.b\423C1703.D
Lab Smp Id: K007226
Inj Date : 17-MAR-2023 10:46
Operator : AA   Inst ID: fid4a.i
Smp Info : K007226
Misc Info :
Comment   :
Method   : \\target\share\chem2\fid4a.i\20230317.b\FID4TPH.m
Meth Date : 17-Mar-2023 16:58 alfonso   Quant Type: AREA%
Cal Date : 18-AUG-2022 11:51   Cal File: 422H1803.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: Falcon+   Compound Sublist: tph.sub
Target Version: 4.14
Processing Host: ALFONSO-201901

Concentration Formula: Amt * DF * CpndVariable
Cpnd Variable   Local Compound Variable

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
2.043	81395	55677	0.684	0.012	1 Toluene
2.074	68503	39991	0.584	0.010	
2.104	85451	37158	0.435	0.012	
2.146	59381	25207	0.424	0.008	
2.181	11414	22862	2.003	0.001	
2.195	34939	23199	0.664	0.005	2 C8
2.218	8679	21808	2.513	0.001	
2.224	21070	21832	1.036	0.003	
2.243	45086	20191	0.448	0.006	
2.286	3130	15677	5.009	0.000	
2.291	12615	15880	1.259	0.001	
2.313	20979	15888	0.757	0.003	
2.333	7621	15373	2.017	0.001	
2.348	31874	17112	0.537	0.004	
2.373	4619	13267	2.872	0.000	
2.380	12003	13446	1.120	0.001	
2.393	10327	13347	1.292	0.001	
2.408	9963	12697	1.274	0.001	
2.446	24366	11882	0.488	0.003	
2.498	24898	10214	0.410	0.003	
2.557	1592	6395	4.017	0.000	
2.570	4427	6384	1.442	0.000	
2.583	4275	6215	1.454	0.000	
2.595	1208	6068	5.024	0.000	
2.602	3076	6230	2.025	0.000	
2.607	1560	6270	4.019	0.000	
2.631	17195	8933	0.520	0.002	
2.654	17386	7637	0.439	0.002	
2.703	4531	5468	1.207	0.000	
2.717	9156	5741	0.627	0.001	
2.740	3955	5045	1.275	0.000	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
2.768	1029	4134	4.017	0.000	
2.771	830	4189	5.050	0.000	
2.778	1924	4438	2.307	0.000	
2.784	5498	4564	0.830	0.000	
2.846	25970	8400	0.323	0.003	
2.880	939	3165	3.370	0.000	
2.884	1885	3183	1.688	0.000	
2.901	4805	3504	0.729	0.000	
2.938	581	1990	3.423	0.000	
2.944	1450	2016	1.390	0.000	
2.955	449	1816	4.043	0.000	
2.967	1234	2009	1.629	0.000	
2.982	712	2087	2.931	0.000	
2.988	1000	2338	2.337	0.000	
3.001	3475	3541	1.019	0.000	
3.018	3528	3705	1.050	0.000	
3.033	983	2521	2.564	0.000	
3.038	1297	2686	2.070	0.000	
3.044	2547	2541	0.997	0.000	
3.069	389	1330	3.418	0.000	
3.078	728	1545	2.123	0.000	
3.085	1244	1637	1.316	0.000	
3.098	1115	1624	1.457	0.000	
3.108	926	1475	1.593	0.000	
3.119	239	1202	5.036	0.000	
3.125	540	1251	2.315	0.000	
3.133	409	1219	2.978	0.000	
3.144	2600	1886	0.725	0.000	
3.165	620	1604	2.588	0.000	
3.173	554	1647	2.972	0.000	
3.192	2423	2273	0.938	0.000	
3.197	582	2418	4.158	0.000	
3.204	1161	2723	2.346	0.000	
3.208	825	2777	3.364	0.000	
3.228	4472	3391	0.758	0.000	
3.246	1586	2676	1.688	0.000	
3.279	1194	2070	1.734	0.000	
3.293	854	1951	2.285	0.000	
3.298	595	2029	3.408	0.000	
3.315	2640	2597	0.984	0.000	
3.320	1015	2542	2.504	0.000	
3.328	1549	2593	1.674	0.000	3 C10
3.338	1314	2533	1.928	0.000	
3.350	523	2159	4.130	0.000	
3.358	1776	2105	1.185	0.000	
3.371	356	1797	5.043	0.000	
3.378	914	1880	2.057	0.000	
3.383	380	1927	5.068	0.000	
3.387	595	2023	3.399	0.000	
3.395	1390	2270	1.633	0.000	
3.405	1490	1994	1.338	0.000	
3.423	690	1601	2.321	0.000	
3.435	821	1554	1.894	0.000	
3.441	387	1583	4.087	0.000	
3.444	401	1625	4.051	0.000	
3.448	403	1636	4.060	0.000	
3.455	1216	1700	1.398	0.000	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
3.478	235	1185	5.047	0.000	
3.482	412	1229	2.986	0.000	
3.488	695	1177	1.694	0.000	
3.501	239	969	4.063	0.000	
3.509	914	1149	1.258	0.000	
3.520	1078	1069	0.992	0.000	
3.540	301	927	3.079	0.000	
3.556	406	849	2.089	0.000	
3.567	370	873	2.359	0.000	
3.572	178	939	5.270	0.000	
3.578	591	1171	1.981	0.000	
3.591	869	1353	1.556	0.000	
3.596	741	1352	1.826	0.000	
3.606	471	1401	2.976	0.000	
3.613	548	1411	2.577	0.000	
3.618	433	1521	3.511	0.000	
3.625	710	1635	2.303	0.000	
3.630	910	1667	1.832	0.000	
3.652	661	1562	2.362	0.000	
3.670	462	1214	2.627	0.000	
3.686	1036	1453	1.403	0.000	
3.690	829	1374	1.658	0.000	
3.702	531	1191	2.241	0.000	
3.712	452	1355	3.001	0.000	
3.716	820	1423	1.736	0.000	
3.736	2685	2093	0.780	0.000	
3.752	689	2030	2.946	0.000	
3.760	4109	2349	0.572	0.000	
3.805	3183	2036	0.640	0.000	
3.823	496	1686	3.401	0.000	
3.835	1641	2314	1.410	0.000	
3.859	9243	4616	0.499	0.001	
3.897	851	1745	2.051	0.000	
3.904	503	1721	3.419	0.000	
3.927	3866	3293	0.852	0.000	
3.941	5520	3558	0.645	0.000	
3.980	573	1715	2.991	0.000	
3.992	1027	1794	1.748	0.000	
3.995	1494	1860	1.245	0.000	
4.010	887	1639	1.847	0.000	
4.021	663	1724	2.602	0.000	
4.026	1380	1776	1.287	0.000	
4.045	306	1546	5.059	0.000	
4.053	1001	1758	1.757	0.000	
4.061	1137	1804	1.586	0.000	
4.072	779	1773	2.275	0.000	
4.080	989	1896	1.917	0.000	
4.087	561	1905	3.396	0.000	
4.098	1956	2156	1.103	0.000	
4.106	1168	2044	1.750	0.000	
4.127	1049	1627	1.551	0.000	
4.142	587	1545	2.633	0.000	
4.148	1155	1572	1.361	0.000	
4.173	3682	2398	0.651	0.000	
4.189	1023	1738	1.700	0.000	
4.204	549	1627	2.961	0.000	
4.213	628	1658	2.641	0.000	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
4.221	1039	1830	1.761	0.000	
4.227	447	1814	4.058	0.000	
4.248	2703	2638	0.976	0.000	
4.256	1387	2945	2.123	0.000	
4.260	743	2988	4.022	0.000	
4.265	912	3081	3.378	0.000	
4.268	779	3140	4.031	0.000	
4.275	1736	3217	1.853	0.000	
4.289	2688	3495	1.300	0.000	
4.295	3466	3448	0.995	0.000	
4.322	1054	2680	2.543	0.000	4 C12
4.330	1686	2627	1.558	0.000	
4.358	1066	1974	1.852	0.000	
4.378	434	1758	4.054	0.000	
4.384	1324	1879	1.419	0.000	
4.403	860	1608	1.869	0.000	
4.414	457	1567	3.431	0.000	
4.421	1117	1675	1.499	0.000	
4.433	910	1538	1.690	0.000	
4.439	865	1534	1.774	0.000	
4.449	764	1302	1.705	0.000	
4.471	433	1123	2.593	0.000	
4.476	734	1135	1.546	0.000	
4.490	385	1005	2.610	0.000	
4.498	555	1186	2.137	0.000	
4.502	695	1166	1.677	0.000	
4.518	587	949	1.618	0.000	
4.526	316	925	2.924	0.000	
4.533	560	989	1.765	0.000	
4.543	469	1001	2.135	0.000	
4.548	222	916	4.130	0.000	
4.553	188	980	5.207	0.000	
4.558	255	1038	4.076	0.000	
4.568	652	1157	1.775	0.000	
4.573	338	1151	3.409	0.000	
4.580	487	1283	2.636	0.000	
4.596	3801	1950	0.513	0.000	
4.631	531	1429	2.692	0.000	
4.663	4548	3737	0.822	0.000	
4.667	2815	3822	1.358	0.000	
4.679	2199	3760	1.710	0.000	
4.688	1068	3585	3.356	0.000	
4.694	2166	3742	1.727	0.000	
4.723	372603	172476	0.463	0.055	
4.894	47034	21828	0.464	0.006	
4.956	80510	28154	0.350	0.011	
4.999	54273	16950	0.312	0.008	
5.068	1137	5713	5.027	0.000	
5.072	8415	5792	0.688	0.001	
5.105	4203	4316	1.027	0.000	5 C14
5.146	660	2685	4.070	0.000	
5.153	2524	2649	1.050	0.000	
5.170	1076	2437	2.265	0.000	
5.174	2371	2438	1.028	0.000	
5.201	1013	2011	1.986	0.000	
5.210	2064	2332	1.130	0.000	
5.224	1083	2304	2.127	0.000	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
5.228	2027	2354	1.162	0.000	
5.276	4673	2682	0.574	0.000	
5.322	195	844	4.328	0.000	
5.331	977	1203	1.231	0.000	
5.356	490	993	2.027	0.000	
5.361	814	1044	1.283	0.000	
5.382	115	387	3.351	0.000	
5.399	619	960	1.551	0.000	
5.406	402	1035	2.576	0.000	
5.410	378	1122	2.968	0.000	
5.423	1663	1555	0.935	0.000	
5.452	5951	5020	0.844	0.000	
5.501	290	797	2.753	0.000	
5.523	2317	2472	1.067	0.000	
5.538	5946	6823	1.147	0.000	
5.792	501855376	76456669	0.152	74.449	6 C16
5.807	79757019	82319946	1.032	11.775	
5.823	77929961	88539160	1.136	11.505	
5.962	75333	84828	1.126	0.011	
5.986	474748	124326	0.262	0.070	
6.070	17103	57180	3.343	0.002	
6.074	120761	57565	0.477	0.017	
6.113	90233	47140	0.522	0.013	
6.165	407438	218439	0.536	0.060	
6.263	944101	374166	0.396	0.139	
6.414	114839	39498	0.344	0.016	7 C18
6.464	53190	31177	0.586	0.007	
6.523	31509	25870	0.821	0.004	
6.551	4785	23963	5.008	0.000	
6.559	51194	25409	0.496	0.007	
6.590	21354	21666	1.015	0.003	
6.612	35061	21127	0.603	0.005	$ 8 o-terph
6.638	17712	19934	1.125	0.002	
6.672	22159	19651	0.887	0.003	
6.683	26846	19268	0.718	0.003	
6.708	5413	18142	3.351	0.000	
6.713	24941	18247	0.732	0.003	
6.747	50657	18478	0.365	0.007	
6.795	23973	17444	0.728	0.003	
6.814	28457	17895	0.629	0.004	
6.837	10746	15445	1.437	0.001	
6.871	29974	21406	0.714	0.004	
6.874	4287	21471	5.009	0.000	
6.882	20520	21675	1.056	0.003	
6.944	32864	17445	0.531	0.004	
6.978	9138	15347	1.679	0.001	
7.014	4130	13830	3.348	0.000	9 C20
7.025	12567	14083	1.121	0.001	
7.038	4952	14274	2.882	0.000	
7.044	6508	14578	2.240	0.000	
7.050	25344	14736	0.581	0.003	
7.099	5531	12365	2.236	0.000	
7.108	16440	12371	0.752	0.002	
7.129	9415	11275	1.198	0.001	
7.175	3589	10327	2.878	0.000	
7.182	7285	10474	1.438	0.001	
7.212	11252	10002	0.889	0.001	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.227	5193	9506	1.830	0.000	
7.237	5172	9476	1.832	0.000	
7.247	4652	9357	2.011	0.000	
7.254	3258	9369	2.875	0.000	
7.259	7003	9455	1.350	0.001	
7.272	5540	9252	1.670	0.000	
7.283	4511	9087	2.014	0.000	
7.296	5828	9031	1.550	0.000	
7.308	4850	8866	1.828	0.000	
7.318	3111	9014	2.897	0.000	
7.324	3191	9168	2.873	0.000	
7.328	2775	9325	3.360	0.000	
7.339	6190	9713	1.569	0.000	
7.344	2920	9761	3.343	0.000	
7.350	17091	9874	0.578	0.002	
7.379	7217	8616	1.194	0.001	
7.395	5430	8408	1.548	0.000	
7.404	2492	8342	3.348	0.000	
7.409	1666	8354	5.014	0.000	
7.415	2955	8500	2.877	0.000	
7.423	3887	8782	2.259	0.000	
7.465	28160	14253	0.506	0.004	
7.471	6466	14499	2.242	0.000	
7.480	6649	15111	2.273	0.000	
7.484	26595	15197	0.571	0.003	
7.514	13964	13621	0.975	0.002	
7.539	8118	12614	1.554	0.001	
7.553	10540	12495	1.185	0.001	
7.584	2820	11307	4.010	0.000	
7.590	4522	11429	2.527	0.000	10 C22
7.620	16634	10435	0.627	0.002	
7.653	6793	9783	1.440	0.001	
7.663	8606	9666	1.123	0.001	
7.675	2827	9464	3.347	0.000	
7.683	9373	9620	1.026	0.001	
7.699	3657	9205	2.517	0.000	
7.708	5071	9290	1.832	0.000	
7.713	10483	9274	0.885	0.001	
7.735	10686	9257	0.866	0.001	
7.752	4732	8664	1.831	0.000	
7.765	5624	8765	1.558	0.000	
7.773	5614	8686	1.547	0.000	
7.784	3375	8506	2.520	0.000	
7.793	2118	8517	4.021	0.000	
7.799	10086	8544	0.847	0.001	
7.817	7761	8325	1.073	0.001	
7.833	2415	8088	3.350	0.000	
7.838	2838	8160	2.875	0.000	
7.844	3649	8173	2.240	0.000	
7.858	2009	8069	4.017	0.000	
7.864	4482	8197	1.829	0.000	
7.871	3688	8223	2.230	0.000	
7.879	4875	8269	1.696	0.000	
7.889	2009	8061	4.013	0.000	
7.897	4080	8308	2.036	0.000	
7.916	17828	10103	0.567	0.002	
7.935	4052	9086	2.242	0.000	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
7.940	2229	8948	4.015	0.000	
7.945	5765	8973	1.556	0.000	
7.954	6458	8765	1.357	0.000	
7.976	2099	8428	4.016	0.000	
7.984	10213	8807	0.862	0.001	
7.999	4897	8282	1.691	0.000	
8.013	8782	8112	0.924	0.001	
8.028	5860	7858	1.341	0.000	
8.040	3929	7871	2.003	0.000	
8.054	9161	8146	0.889	0.001	
8.067	2701	7766	2.876	0.000	
8.074	3069	7702	2.510	0.000	
8.081	2694	7742	2.874	0.000	
8.088	2705	7793	2.881	0.000	
8.095	5842	7832	1.341	0.000	
8.104	5419	7841	1.447	0.000	
8.119	5740	7735	1.348	0.000	
8.134	4986	7768	1.558	0.000	
8.141	5893	8009	1.359	0.000	
8.159	9098	8027	0.882	0.001	11 C24
8.174	3156	7971	2.526	0.000	
8.185	2376	7967	3.353	0.000	
8.190	4739	7937	1.675	0.000	
8.202	5181	8028	1.549	0.000	
8.212	1994	8027	4.025	0.000	
8.223	6137	8270	1.348	0.000	
8.236	6864	8171	1.190	0.001	
8.248	2383	7986	3.351	0.000	
8.253	2405	8059	3.351	0.000	
8.259	5294	8207	1.550	0.000	
8.268	2866	8235	2.874	0.000	
8.280	6583	8312	1.263	0.000	
8.289	4538	8296	1.828	0.000	
8.295	2060	8300	4.029	0.000	
8.300	2063	8291	4.020	0.000	
8.313	7062	8400	1.189	0.001	
8.318	1667	8375	5.023	0.000	
8.332	11362	9100	0.801	0.001	
8.343	4357	8741	2.006	0.000	
8.358	1267	8458	6.676	0.000	
8.363	2991	8621	2.882	0.000	
8.371	3980	8983	2.257	0.000	
8.379	6330	9083	1.435	0.000	
8.385	3111	8963	2.881	0.000	
8.393	6706	9050	1.349	0.000	
8.404	4903	8943	1.824	0.000	
8.417	8437	8972	1.063	0.001	
8.438	7166	9103	1.270	0.001	
8.443	3211	9227	2.873	0.000	12 C25
8.450	3688	9295	2.521	0.000	
8.455	2313	9276	4.010	0.000	
8.475	30054	13714	0.456	0.004	
8.504	5760	9733	1.690	0.000	
8.519	2799	9376	3.350	0.000	
8.529	4766	9710	2.037	0.000	
8.537	4875	9815	2.013	0.000	
8.543	8411	9973	1.186	0.001	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
8.555	2969	9916	3.340	0.000	
8.560	3974	9987	2.513	0.000	
8.568	2483	9997	4.026	0.000	
8.572	5007	10043	2.006	0.000	
8.591	14074	10725	0.762	0.002	
8.602	2648	10665	4.028	0.000	
8.606	2159	10862	5.032	0.000	
8.609	2183	10952	5.017	0.000	
8.633	7361	10561	1.435	0.001	
8.647	6774	10495	1.549	0.001	
8.658	2596	10420	4.014	0.000	
8.663	4723	10573	2.239	0.000	
8.669	3156	10589	3.355	0.000	
8.687	15405	11334	0.736	0.002	
8.699	6103	11158	1.828	0.000	
8.707	2223	11136	5.009	0.000	13 C26
8.730	28697	12536	0.437	0.004	
8.754	8658	11553	1.334	0.001	
8.763	2896	11612	4.010	0.000	
8.780	15029	12352	0.822	0.002	
8.788	1833	12243	6.680	0.000	
8.798	11854	12679	1.070	0.001	
8.806	1873	12509	6.677	0.000	
8.809	3133	12565	4.011	0.000	
8.813	2506	12550	5.008	0.000	
8.819	7588	12757	1.681	0.001	
8.829	4418	12679	2.870	0.000	
8.835	6988	12762	1.826	0.001	
8.848	13711	13258	0.967	0.002	
8.872	26625	13656	0.513	0.003	
8.894	4575	13127	2.869	0.000	
8.898	2631	13188	5.013	0.000	
8.902	5918	13262	2.241	0.000	
8.914	8577	13313	1.552	0.001	
8.922	4011	13433	3.349	0.000	
8.926	4724	13546	2.867	0.000	
8.933	6787	13651	2.011	0.001	
8.946	9614	13923	1.448	0.001	
8.951	6274	14004	2.232	0.000	
8.960	5592	14036	2.510	0.000	
8.966	3513	14090	4.011	0.000	
8.969	2829	14171	5.009	0.000	
8.973	4976	14233	2.860	0.000	
8.980	4289	14365	3.350	0.000	
8.996	27708	16441	0.593	0.004	
9.013	8129	14847	1.827	0.001	
9.025	8129	14840	1.826	0.001	
9.036	7503	15229	2.030	0.001	
9.040	4559	15225	3.340	0.000	
9.057	14920	16251	1.089	0.002	
9.067	9915	16831	1.698	0.001	
9.076	8535	17331	2.031	0.001	
9.081	5250	17596	3.352	0.000	
9.084	10558	17675	1.674	0.001	
9.095	4386	17601	4.013	0.000	
9.111	30564	19262	0.630	0.004	
9.128	8346	18722	2.243	0.001	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
9.139	15095	18986	1.258	0.002	
9.149	6655	19050	2.862	0.000	
9.158	23240	19719	0.848	0.003	
9.171	1903	19042	10.005	0.000	
9.175	4773	19156	4.013	0.000	
9.187	23630	19927	0.843	0.003	
9.199	4925	19763	4.013	0.000	
9.208	14115	20394	1.445	0.002	
9.219	12303	20691	1.682	0.001	
9.226	7266	20831	2.867	0.001	
9.233	15622	21000	1.344	0.002	14 C28
9.247	9280	20714	2.232	0.001	
9.262	45057	27849	0.618	0.006	
9.281	22651	23200	1.024	0.003	
9.304	13489	22820	1.692	0.001	
9.307	18038	22862	1.267	0.002	
9.328	8656	21778	2.516	0.001	
9.334	8635	21650	2.507	0.001	
9.343	16240	21738	1.339	0.002	
9.354	5409	21709	4.013	0.000	
9.367	16481	22234	1.349	0.002	
9.370	6683	22346	3.344	0.000	
9.382	14775	23166	1.568	0.002	
9.390	11679	23531	2.015	0.001	
9.394	12888	23584	1.830	0.001	
9.408	18752	23645	1.261	0.002	
9.416	4675	23396	5.004	0.000	
9.428	25138	24392	0.970	0.003	
9.438	20233	24095	1.191	0.002	
9.468	67429	26696	0.396	0.009	
9.496	8413	24122	2.867	0.001	
9.507	12049	24259	2.013	0.001	
9.527	36362	25771	0.709	0.005	
9.538	12891	25911	2.010	0.001	
9.543	6452	25853	4.007	0.000	
9.551	10420	26202	2.515	0.001	
9.557	29750	26593	0.894	0.004	
9.574	6252	25071	4.010	0.000	
9.593	29143	27655	0.949	0.004	
9.599	40783	27905	0.684	0.006	
9.620	13159	26364	2.004	0.001	
9.632	17259	26799	1.553	0.002	
9.640	13210	26592	2.013	0.001	
9.664	35362	28170	0.797	0.005	
9.672	27890	28134	1.009	0.004	
9.696	26737	28634	1.071	0.003	
9.711	53475	30848	0.577	0.007	
9.745	33266	29504	0.887	0.004	$ 15 Triacon Surr
9.752	7348	29501	4.015	0.001	
9.756	20542	29565	1.439	0.003	
9.768	7255	29059	4.005	0.001	
9.773	7275	29173	4.010	0.001	
9.785	31543	30611	0.970	0.004	
9.803	46804	32832	0.701	0.006	
9.821	10456	30060	2.875	0.001	
9.833	30772	31156	1.012	0.004	
9.860	77784	33514	0.431	0.011	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
9.881	12779	32069	2.510	0.001	
9.892	14531	32668	2.248	0.002	
9.896	8201	32902	4.012	0.001	
9.908	23357	33882	1.451	0.003	
9.912	27050	34095	1.260	0.003	
9.939	14585	32570	2.233	0.002	
9.951	23032	33095	1.437	0.003	
9.956	11596	33292	2.871	0.001	
9.966	16544	33271	2.011	0.002	
9.971	11660	33391	2.864	0.001	
9.975	10051	33617	3.345	0.001	
9.983	15209	33983	2.234	0.002	
9.988	15177	33830	2.229	0.002	
9.996	10128	33907	3.348	0.001	
10.018	43348	35629	0.822	0.006	
10.021	7133	35693	5.004	0.001	
10.025	8960	35988	4.016	0.001	
10.034	42064	36944	0.878	0.006	
10.063	65447	38699	0.591	0.009	
10.077	7375	36906	5.004	0.001	
10.083	16743	37428	2.235	0.002	
10.095	34467	38665	1.122	0.005	
10.118	90921	40621	0.447	0.013	
10.151	37738	38047	1.008	0.005	
10.158	11383	38037	3.342	0.001	
10.168	36074	38274	1.061	0.005	
10.181	15072	37809	2.509	0.002	16 C32
10.185	5655	37746	6.675	0.000	
10.198	43905	38471	0.876	0.006	
10.208	24771	38177	1.541	0.003	
10.218	19031	38113	2.003	0.002	
10.228	13353	38279	2.867	0.001	
10.237	21225	38826	1.829	0.003	
10.243	30946	38929	1.258	0.004	
10.266	43064	39733	0.923	0.006	
10.275	11912	39784	3.340	0.001	
10.278	19932	39886	2.001	0.002	
10.293	46366	40725	0.878	0.006	
10.318	46465	41024	0.883	0.006	
10.328	24720	41353	1.673	0.003	
10.334	10308	41278	4.005	0.001	
10.343	29100	41866	1.439	0.004	
10.354	22822	41695	1.827	0.003	
10.360	16568	41490	2.504	0.002	
10.376	31388	42321	1.348	0.004	
10.384	36478	43119	1.182	0.005	
10.393	21427	43144	2.014	0.003	
10.416	82339	44731	0.543	0.012	
10.434	23173	42257	1.824	0.003	
10.455	42801	43684	1.021	0.006	
10.459	19648	44004	2.240	0.002	
10.469	19632	43883	2.235	0.002	
10.492	56113	45807	0.816	0.008	
10.497	20626	45915	2.226	0.003	
10.503	27439	45837	1.671	0.004	
10.513	31833	45842	1.440	0.004	
10.523	6773	45190	6.672	0.001	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
10.529	22697	45513	2.005	0.003	
10.543	39087	46432	1.188	0.005	
10.552	16284	46719	2.869	0.002	
10.558	18796	47158	2.509	0.002	
10.576	69878	48769	0.698	0.010	
10.586	12085	48384	4.004	0.001	
10.592	21757	48469	2.228	0.003	
10.609	46960	50482	1.075	0.006	
10.616	40486	50812	1.255	0.005	17 C34
10.628	52392	50284	0.960	0.007	
10.665	99744	52644	0.528	0.014	
10.680	20832	52264	2.509	0.003	
10.699	126137	55939	0.443	0.018	
10.723	18258	52316	2.865	0.002	
10.733	65550	52928	0.807	0.009	
10.751	49102	51903	1.057	0.007	
10.765	10288	51490	5.005	0.001	
10.777	73220	52877	0.722	0.010	
10.791	15621	52150	3.338	0.002	
10.799	46819	52190	1.115	0.006	
10.817	52000	52328	1.006	0.007	
10.828	13014	52167	4.008	0.001	
10.833	18275	52280	2.861	0.002	
10.838	67284	52271	0.777	0.009	
10.860	15395	51401	3.339	0.002	
10.867	15366	51252	3.335	0.002	
10.874	25712	51608	2.007	0.003	
10.885	59363	52064	0.877	0.008	
10.901	33199	51247	1.544	0.004	
10.911	35859	51446	1.435	0.005	
10.925	15150	50526	3.335	0.002	
10.936	27761	50508	1.819	0.004	
10.954	40634	51235	1.261	0.005	
10.958	17973	51428	2.861	0.002	
10.982	101216	54997	0.543	0.014	
10.999	80380	54264	0.675	0.011	
11.022	15822	52869	3.342	0.002	
11.029	23878	53171	2.227	0.003	
11.032	23908	53219	2.226	0.003	
11.044	39793	53228	1.338	0.005	
11.053	13218	52959	4.007	0.001	19 C36
11.057	26491	53088	2.004	0.003	
11.069	47933	53454	1.115	0.007	
11.079	78088	52997	0.679	0.011	
11.132	4853	48537	10.002	0.000	
11.138	21933	48845	2.227	0.003	
11.148	46678	49317	1.057	0.006	
11.158	12248	49060	4.006	0.001	
11.164	14711	49102	3.338	0.002	
11.179	64473	49939	0.775	0.009	
11.192	19751	49439	2.503	0.002	
11.197	14848	49541	3.337	0.002	
11.202	17336	49566	2.859	0.002	
11.206	12400	49639	4.003	0.001	
11.212	56808	49881	0.878	0.008	
11.230	26830	48794	1.819	0.003	
11.263	19014	47590	2.503	0.002	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
11.267	11927	47790	4.007	0.001	
11.285	66432	50042	0.753	0.009	
11.308	17214	49235	2.860	0.002	
11.312	19684	49285	2.504	0.002	
11.322	19740	49570	2.511	0.002	
11.331	27467	50208	1.828	0.004	
11.334	12565	50301	4.003	0.001	
11.338	17617	50367	2.859	0.002	
11.356	50450	50688	1.005	0.007	
11.383	31641	48774	1.541	0.004	
11.392	14562	48589	3.337	0.002	
11.398	14566	48593	3.336	0.002	
11.405	21947	48858	2.226	0.003	
11.418	36961	49602	1.342	0.005	
11.428	52174	49838	0.955	0.007	
11.438	46900	49605	1.058	0.006	
11.456	66003	49218	0.746	0.009	
11.481	84312	48818	0.579	0.012	
11.518	39837	46996	1.180	0.005	
11.533	55836	46822	0.839	0.008	20 C38
11.560	30101	46465	1.544	0.004	
11.568	20916	46512	2.224	0.003	
11.573	11637	46596	4.004	0.001	
11.579	23274	46598	2.002	0.003	
11.586	13953	46531	3.335	0.002	
11.591	9318	46631	5.004	0.001	
11.623	97892	48831	0.499	0.014	
11.631	17107	48984	2.863	0.002	
11.638	22090	49260	2.230	0.003	
11.642	32050	49351	1.540	0.004	
11.669	95446	50981	0.534	0.014	
11.685	95822	49865	0.520	0.014	
11.788	8918	44609	5.002	0.001	
11.791	35704	44768	1.254	0.005	
11.804	11082	44350	4.002	0.001	
11.813	22172	44403	2.003	0.003	
11.823	19993	44543	2.228	0.002	
11.829	13395	44754	3.341	0.001	
11.837	20184	44981	2.228	0.002	
11.852	26933	44942	1.669	0.003	
11.866	36041	45224	1.255	0.005	
11.877	15835	45355	2.864	0.002	
11.883	18222	45726	2.509	0.002	
11.889	15985	45741	2.861	0.002	
11.896	20679	46117	2.230	0.003	
11.905	23259	46896	2.016	0.003	
11.929	70146	49826	0.710	0.010	
11.936	52288	50085	0.958	0.007	
11.951	14787	49369	3.339	0.002	
11.957	17313	49595	2.865	0.002	
11.961	32199	49647	1.542	0.004	
11.971	19578	49063	2.506	0.002	
11.980	34244	49065	1.433	0.005	
12.019	96987	51133	0.527	0.014	
12.025	48685	51499	1.058	0.007	
12.053	38386	51386	1.339	0.005	
12.062	38575	51549	1.336	0.005	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
12.070	17923	51300	2.862	0.002	
12.078	45780	51141	1.117	0.006	
12.105	31495	48817	1.550	0.004	
12.118	85510	48295	0.565	0.012	
12.148	55474	46657	0.841	0.008	21 C40
12.172	34299	45899	1.338	0.005	
12.181	18286	45754	2.502	0.002	
12.188	20565	45727	2.223	0.003	
12.198	29701	45787	1.542	0.004	
12.212	11377	45530	4.002	0.001	
12.218	29576	45566	1.541	0.004	
12.237	41054	45750	1.114	0.006	
12.243	13695	45701	3.337	0.002	
12.253	27528	46122	1.675	0.004	
12.260	16149	46201	2.861	0.002	
12.272	32473	46571	1.434	0.004	
12.347	231342	54259	0.235	0.034	
12.355	96470	54322	0.563	0.014	
12.383	13155	52687	4.005	0.001	
12.389	52817	52930	1.002	0.007	
12.434	117936	55204	0.468	0.017	
12.440	19323	55283	2.861	0.002	
12.448	22049	55156	2.502	0.003	
12.460	127044	56114	0.442	0.018	
12.500	63536	55700	0.877	0.009	
12.519	44746	56237	1.257	0.006	
12.523	16928	56556	3.341	0.002	
12.528	14154	56666	4.003	0.002	
12.532	14154	56644	4.002	0.002	
12.538	25607	57089	2.229	0.003	
12.543	31284	57010	1.822	0.004	
12.560	76588	57084	0.745	0.011	
12.574	22463	56167	2.500	0.003	
12.583	192414	56305	0.293	0.028	
12.668	201456	54098	0.269	0.029	
12.722	63529	49368	0.777	0.009	
12.744	14574	48683	3.340	0.002	
12.757	68233	49046	0.719	0.010	
12.777	29106	48653	1.672	0.004	
12.802	69072	49884	0.722	0.010	
12.805	19947	49915	2.502	0.002	
12.813	12457	49907	4.006	0.001	
12.826	42860	50672	1.182	0.006	
12.830	15192	50711	3.338	0.002	
12.835	63121	50727	0.804	0.009	
12.856	30109	50299	1.671	0.004	
12.871	12459	49875	4.003	0.001	
12.876	24950	49913	2.001	0.003	
12.883	12458	49860	4.002	0.001	
12.892	24999	50091	2.004	0.003	
12.904	37682	50442	1.339	0.005	
12.918	60965	51059	0.838	0.009	
12.929	15268	50972	3.338	0.002	
12.950	101236	52476	0.518	0.014	
12.991	32619	50285	1.542	0.004	
13.030	23826	47690	2.002	0.003	
13.047	49429	47410	0.959	0.007	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
13.072	11668	46709	4.003	0.001	
13.077	14056	46964	3.341	0.002	
13.083	21201	47214	2.227	0.003	
13.092	45034	47490	1.055	0.006	
13.103	33139	47401	1.430	0.004	
13.119	58622	47300	0.807	0.008	
13.136	61979	46406	0.749	0.009	
13.163	36232	45399	1.253	0.005	
13.172	13552	45219	3.337	0.002	
13.178	13550	45211	3.337	0.002	
13.183	13581	45318	3.337	0.002	
13.188	15867	45365	2.859	0.002	
13.193	11350	45433	4.003	0.001	
13.206	54879	45909	0.837	0.008	
13.233	74220	46899	0.632	0.010	
13.246	18724	46923	2.506	0.002	
13.250	14089	47028	3.338	0.002	
13.254	9392	46999	5.004	0.001	
13.261	35241	47103	1.337	0.005	
13.270	21093	46884	2.223	0.003	
13.278	16404	46889	2.858	0.002	
13.284	28108	46937	1.670	0.004	
13.309	27777	46575	1.677	0.004	
13.313	11643	46617	4.004	0.001	
13.323	30391	46938	1.544	0.004	
13.337	49696	47554	0.957	0.007	
13.345	11906	47686	4.005	0.001	
13.352	21499	47921	2.229	0.003	
13.358	14416	48133	3.339	0.002	
13.366	24163	48487	2.007	0.003	
13.391	108474	49842	0.459	0.016	
13.411	39818	49922	1.254	0.005	
13.421	140245	49882	0.356	0.020	
13.468	75433	46221	0.613	0.011	
13.519	59701	44435	0.744	0.008	
13.538	26345	44021	1.671	0.003	
13.553	17475	43727	2.502	0.002	
13.559	19699	43828	2.225	0.002	
13.566	15324	43832	2.860	0.002	
13.574	28519	43956	1.541	0.004	
13.585	21950	43943	2.002	0.003	
13.595	26497	44341	1.673	0.003	
13.603	22230	44574	2.005	0.003	
13.608	11135	44585	4.004	0.001	
13.633	100703	46371	0.460	0.014	
13.650	25255	45974	1.820	0.003	
13.663	20511	45675	2.227	0.003	
13.670	15945	45584	2.859	0.002	
13.677	40973	45642	1.114	0.006	
13.688	4544	45448	10.002	0.000	
13.693	29520	45508	1.542	0.004	
13.718	24720	44995	1.820	0.003	
13.727	11216	44890	4.002	0.001	
13.735	29185	45025	1.543	0.004	
13.752	17874	44782	2.505	0.002	
13.767	35874	45020	1.255	0.005	
13.775	36036	45104	1.252	0.005	

RT	AREA	HEIGHT	HT/AREA	% AREA	COMPOUNDS
13.785	11226	44939	4.003	0.001	
13.790	47016	44953	0.956	0.006	
13.813	11118	44516	4.004	0.001	
13.818	37641	44507	1.182	0.005	
13.832	15424	44192	2.865	0.002	
13.838	17564	43967	2.503	0.002	
13.844	26339	43892	1.666	0.003	
13.855	30567	43821	1.434	0.004	
13.865	23854	43526	1.825	0.003	
13.882	28266	43639	1.544	0.004	
13.886	30418	43629	1.434	0.004	
13.901	34702	43472	1.253	0.005	
13.920	48162	44005	0.914	0.007	
13.928	17577	43956	2.501	0.002	
13.941	15410	44084	2.861	0.002	
13.946	11045	44251	4.006	0.001	
13.949	24369	44341	1.820	0.003	
13.959	22103	44264	2.003	0.003	
13.967	22088	44195	2.001	0.003	
13.976	33207	44336	1.335	0.004	18 Filter Peak
13.998	24195	44018	1.819	0.003	
14.007	15335	43888	2.862	0.002	
14.014	17519	43863	2.504	0.002	
14.019	54335	43870	0.807	0.008	
14.046	10722	42915	4.003	0.001	
14.052	19305	42955	2.225	0.002	
14.058	8568	42864	5.003	0.001	
14.067	38739	43159	1.114	0.005	
14.077	15012	42931	2.860	0.002	
14.083	25753	42977	1.669	0.003	
14.102	25682	42913	1.671	0.003	
14.108	19267	42865	2.225	0.002	
14.116	12834	42815	3.336	0.001	
14.126	25874	43369	1.676	0.003	
14.133	56339	43595	0.774	0.008	
14.161	32503	43582	1.341	0.004	
14.165	10909	43696	4.006	0.001	
14.170	15313	43822	2.862	0.002	
14.175	10960	43911	4.007	0.001	
14.178	13176	43945	3.335	0.001	
14.183	19785	43976	2.223	0.002	
14.191	8796	44018	5.005	0.001	
14.197	17636	44177	2.505	0.002	
14.208	28815	44459	1.543	0.004	
14.219	8873	44379	5.002	0.001	
14.223	13318	44445	3.337	0.001	
14.229	28860	44456	1.540	0.004	
14.247	15436	44194	2.863	0.002	
14.260	37147	43758	1.178	0.005	
14.274	45685	43705	0.957	0.006	
	677340272	268782821		100.000	

Total unknown % area = 25.478

Supelco®

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Certificate of Composition - Analytical Standard

ACID STOC"

Product no.: 22523046
Lot no.: LRAC9812
Expiry Date: May 2023
Manufacturing Date: May 2021
Storage: Refrigerate
Solvent/Matrix: Dichloromethane
Certificate version: LRAC9812.01 *(Note: Certificates may be updated due to the availability of new data. Check our website at: www.sigma-aldrich.com for the most current version.)*

J005200
SVOA-ABN ACID STOCK-200-800ug/ml
Solvent / Lot: DCM
Prep: 5/18/2021 by JZ
Exp: 5/31/2023
Location:

JZ 5/18/21

Analyte	*Assigned Value*	*Units*	*Raw Material Purity,%*	*Raw Material Lot*
2,4-DIMETHYLPHENOL CAS# 105-67-9	802	µg/mL	99.9	LB88935
2,4-DICHLOROPHENOL CAS# 120-83-2	802	µg/mL	100.0	BCBZ6787
2,4,5-TRICHLOROPHENOL CAS# 95-95-4	802	µg/mL	99.9	JS00008
2,4-DINITROPHENOL CAS# 51-28-5	1806	µg/mL	75.9	MKBP5833V
2,4,6-TRICHLOROPHENOL CAS# 88-06-2	803	µg/mL	98.7	LB82983
4-CHLORO-3-METHYLPHENOL CAS# 59-50-7	801	µg/mL	99.9	JS00013
4-NITROPHENOL CAS# 100-02-7	801	µg/mL	99.9	LC10889
2-METHYL-4,6-DINITROPHENOL CAS# 534-52-1	1804	µg/mL	99.7	LC18338
PENTACHLOROPHENOL CAS# 87-86-5	803	µg/mL	98.7	MKCK8156
BENZOIC ACID CAS# 65-85-0	1805	µg/mL	99.9	LC16514

Measurement method: Where applicable, the assigned value is based on a purity determination by mass balance and gravimetrically prepared value.

Intended use: Intended for R&D and Analytical Use only. Not for drug, household or other uses.

Packaging: 1 mL in amber ampule

Instructions for handling and correct use: Use on the as is basis. The internal pressure of the container may be slightly different from the atmospheric pressure at the user`s location. Open slowly and carefully to avoid dispersion of the material.

Health and safety information: All chemical reference materials should be considered potentially hazardous and should be used only by qualified laboratory personnel. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.

Sigma-Aldrich RTC, 2931 Soldier Springs Rd. Laramie, WY 82070, USA;
Tel. 1 307-742-5452; Fax 1 855-831-9211; www.sigmaaldrich.com
Sigma-Aldrich RTC is a subsidiary of Merck KGaA, Darmstadt, Germany.

Certificate of Analysis

J008074
SVOA PAH STD 2000ug/ml
Expires 6/30/2023
Prepared By Joshua Rains 8/5/2021

Product Name: PAH Standard

Product Number: US-106N-1

Lot Number: 0006540449

Lot Issue Date: 11-Jun-2020

Expiration Date: 30-Jun-2023

Description:

This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system, and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	Concentration ± Uncertainty
acenaphthene	000083-32-9	RM10879	2008 ± 10 µg/mL
acenaphthylene	000208-96-8	RM10891	2003 ± 10 µg/mL
anthracene	000120-12-7	RM14212	2006 ± 10 µg/mL
benz[a]anthracene	000056-55-3	RM16072	2006 ± 10 µg/mL
benzo[b]fluoranthene	000205-99-2	RM14571	2005 ± 10 µg/mL
benzo[k]fluoranthene	000207-08-9	RM14321	2009 ± 10 µg/mL
benzo[ghi]perylene	000191-24-2	RM15761	2008 ± 10 µg/mL
benzo[a]pyrene	000050-32-8	RM12669	2009 ± 10 µg/mL
chrysene	000218-01-9	RM12260	2009 ± 10 µg/mL
dibenz[a,h]anthracene	000053-70-3	RM06786	2009 ± 10 µg/mL
fluoranthene	000206-44-0	RM12277	2004 ± 10 µg/mL
fluorene	000086-73-7	RM09441	2009 ± 10 µg/mL
indeno[1,2,3-cd]pyrene	000193-39-5	RM14192	2009 ± 10 µg/mL
naphthalene	000091-20-3	NT00970	2008 ± 10 µg/mL
phenanthrene	000085-01-8	RM10495	2009 ± 10 µg/mL
pyrene	000129-00-0	RM03479	2008 ± 10 µg/mL

Matrix: methylene chloride/benzene (1:1)

ISO 17034 Cert No. AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026

Page: 1 of 2

www.agilent.com/quality/

ISO 17025 Cert No. AT-1937

Certificate of Analysis

Product Number: US-106N-1 **Lot Number:** 0006540449

Storage Conditions: Store at Room Temperature (15° to 30°C).

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:
This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Hazards:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this RM.

Expiration of Certification:
The certification of this RM is valid until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.

Maintenance of Certification:
If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:

Monica Bourgeois
QMS Representative

ISO 17034 Cert No.
AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026
Page: 2 of 2

www.agilent.com/quality/

ISO 17025 Cert
No. AT-1937

Certificate of Analysis

Produced by Phenova
6390 Joyce Drive STE 100, Golden, CO 80403 USA ■ Tel: 303-940-0033 ■ Fax: 303-940-0043 ■ info@phenova.com
Access your Safety Data Sheets and digital Certificates at **www.phenova.com/documents.**

Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101244
Description: Benzidines Standard
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Methylene Chloride

Lot Number: CL16062
Certification Date: November 19, 2020
Expiration Date: November 30, 2030

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Benzidine	92-87-5	2000	± 2.740%
3,3'-Dichlorobenzidine	91-94-1	2000	± 3.229%

J008310
Benzidines std @2000ug/ml
Expires 11/30/2030
Prepared By Van Spohn 8/12/2021

ACCREDITED
Reference Material Producer
Certicate No. 2427.02

Phenova is an accredited ISO/IEC 17034 Reference Material Producer and ISO/IEC 17025 accredited Chemical Testing Laboratory.

ACCREDITED
Chemical Testing Laboratory
Certicate No. 2427.03

IL64691018_us

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Access your Safety Data Sheets and digital Certificates at **www.phenova.com/documents.**

1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31[1] and ISO Guide 35.[2]

2. Quality Standards: Phenova is accredited by A2LA to ISO 17034[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.

4. Handling and Usage Notes: Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

   Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.

12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

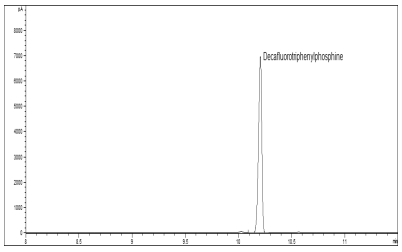
References:

[1] ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
[3] ISO 17034 – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

Certificate of Analysis - Certified Reference Material

Decafluorotriphenylphosphine solution

Product no.: 48724-U
Lot no.: LRAD0628
Expiry Date: October 2024
Manufacturing Date: September 2021
Storage: ROOM TEMPERATURE
Solvent/Matrix: DICHLOROMETHANE
Certificate version: LRAD0628.01 (*Note: Certificates may be updated due to the availability of new data. Check our website at: www.sigma-aldrich.com for the most current version.)*

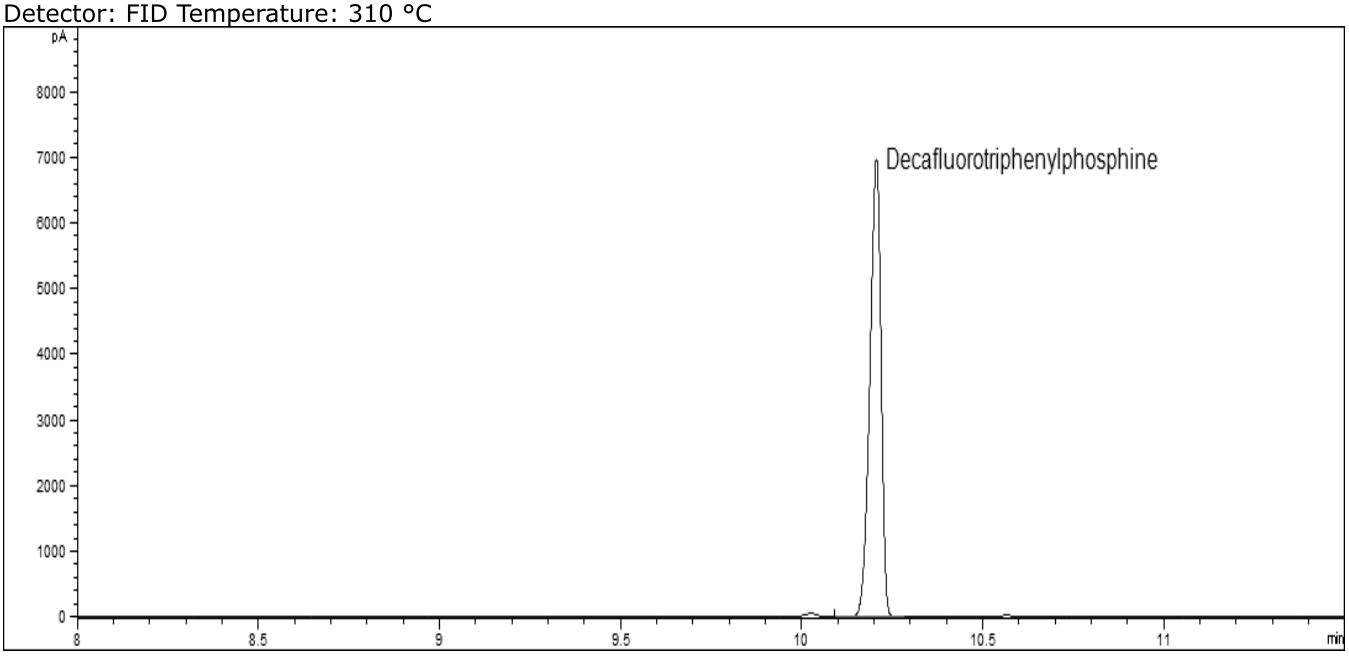


Certified Values:

Analyte	*Certified Value*	*Units*	*Raw Material Purity,%*	*Raw Material Lot*
DFTPP CAS# 5074-71-5	25.2 ± 2.6	mg/mL	97.0	10220909

ASSAY Method

METHOD: GC (BELLEFONTE)
Column: SPB-5, 30 m × 0.53 mm I.D., 1.5 µm film thickness
Carrier Gas: H_2 Flow Rate: 4.3 mL/min
Inlet Temperature: 250 °C Injection Volume: 1 µL
Injection Mode: 25:1
Temperature Program: 120 °C (Hold 0 min) @ 12 °C/min to 260 °C (Hold 0 min)
Detector: FID Temperature: 310 °C



Sigma-Aldrich RTC, 2931 Soldier Springs Rd. Laramie, WY 82070, USA;
Tel. 1 307-742-5452; Fax 1 855-831-9211; www.sigmaaldrich.com
Sigma-Aldrich RTC is a subsidiary of Merck KGaA, Darmstadt, Germany.

Elution details:

EO	RT(MIN)	ANALYTE
1	10.206	Decafluorotriphenylphosphine

Metrological traceability: Traceable to the SI and higher order standards from NIST through an unbroken chain of comparisons. The balance used to weigh raw materials is accurate to +/-0.0001 g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.

Measurement method: Where applicable, the assigned value is based on a purity determination by mass balance and gravimetrically prepared value.

Intended use: Intended for R&D and Analytical Use only. Not for drug, household or other uses.

Minimum sample size: 1 µL

Packaging: 1 mL in amber ampule

Instructions for handling and correct use: Use on the as is basis. The internal pressure of the container may be slightly different from the atmospheric pressure at the user`s location. Open slowly and carefully to avoid dispersion of the material.

Health and safety information: All chemical reference materials should be considered potentially hazardous and should be used only by qualified laboratory personnel. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.

Accreditation: Sigma-Aldrich RTC is accredited by the US accreditation authority ANAB as a registered reference material producer AR-1470 in accordance with ISO 17034.

Certificate issue date: 30-Sep-2021

Andy Ommen - QC Manager

Scott Stetler - QA Manager

Details on metrological traceability: This standard has been gravimetrically prepared using balances that have been fully qualified and calibrated to ISO 17025 requirements. All calibrations utilize NIST traceable weights which are calibrated externally by a qualified ISO 17025 accredited calibration laboratory to NIST standards. Qualification of each balance includes the assignment of a minimum weighing by a qualified and ISO 17025 accredited calibration vendor taking into consideration the balance and installed environmental conditions to ensure compliance with USP tolerances of NMT 0.10% relative error. Fill volume to predetermined specifications is gravimetrically verified throughout the dispensing process using qualified and calibrated balances. Further traceability to a corresponding Primary Standard may be achieved through a direct comparison assay. Where a Primary Standard is available, the assay value will be included in the specified section of the COA.

Associated uncertainty: Ucrm - Uncertainty values in this document are expressed as Expanded Uncertainty (Ucrm) corresponding to the 95% confidence interval. Ucrm is derived from the combined standard uncertainty multiplied by the coverage factor k, which is obtained from a *t*-distribution and degrees of freedom. The components of combined standard uncertainty include the uncertainties due to characterization, homogeneity, long term stability, and short term stability (transport). The components due to stability are generally considered to be negligible unless otherwise indicated by stability studies. The mathematical representation of the Ucrm calculation is as follows:

$$u_{CRM} = \sqrt{u_{char}^2 + u_{\text{hom } ogeneity}^2 + u_{stability}^2}$$

Homogeneity assessment: Homogeneity was assessed in accordance with ISO Guide 35. Completed units were sampled using a random stratified sampling protocol. The results of chemical analysis were then compared by Single Factor Analysis of Variance (ANOVA). The uncertainty due to homogeneity was derived from the ANOVA. Heterogeneity was not detected under the conditions of the ANOVA.

Stability assessment: Significance of the stability assessment will be demonstrated if the analytical result of the study and the range of values represented by the Expanded Uncertainty do not overlap the result of the original assay and the range of its values represented by the Expanded Uncertainty. The method employed will usually be the same method used to characterize the assay value in the initial

Certificate of analysis revision history:

Certificate version	Date	Reason for version
LRAD0628.01	30-Sep-2021	Original Release Date

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Certificate of Analysis

BNAs - Sandy Loam 1

Certified Reference Material

Description

Product ID CRM143-50G
Lot **LRAC8918**
Expiration Date January 2024
Manufacturing Date January 2021
Storage Conditions Refrigerate
Solvent/Matrix SOIL

Certified Values

Analyte	*Units*	*Certified Value* [1,4]
1,2,4-Trichlorobenzene	µg/Kg	1477 ± 181
1,3-Dichlorobenzene (m-Dichlorobenzene)	µg/Kg	1625 ± 292
1-Chloronaphthalene	µg/Kg	2809 ± 84
2,3-Dimethylphenol	µg/Kg	4552 ± 137
2,4,5-Trichlorophenol	µg/Kg	3438 ± 245
2,4,6-Trichlorophenol	µg/Kg	2194 ± 251
2,4-Dichlorophenol	µg/Kg	6991 ± 394
2,4-Dimethylphenol	µg/Kg	6357 ± 879
2,4-Dinitrophenol	µg/Kg	2922 ± 523
2,4-Dinitrotoluene (2,4-DNT)	µg/Kg	3318 ± 442
2,6-Dichlorophenol	µg/Kg	4578 ± 874
2,6-Dimethylphenol	µg/Kg	7582 ± 228
2-Chloronaphthalene	µg/Kg	2223 ± 168
2-Chlorophenol	µg/Kg	1678 ± 202
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	µg/Kg	5148 ± 685
2-Methylphenol (o-Cresol)	µg/Kg	6004 ± 573
2-Nitrophenol	µg/Kg	6456 ± 383
3,4-Dimethylphenol	µg/Kg	7185 ± 216
3+4-Methylphenol (m+p-Cresol)	µg/Kg	8033 ± 1613
4-Bromophenyl phenyl ether (BDE-3)	µg/Kg	7169 ± 310
4-Chloro-3-methylphenol	µg/Kg	2071 ± 110
4-Chlorophenyl phenylether	µg/Kg	2052 ± 113
4-Methylphenol (p-Cresol)	µg/Kg	6617 ± 1371
4-Nitrophenol	µg/Kg	6812 ± 595
Acenaphthene	µg/Kg	5489 ± 380

Description

Lot **LRAC8918**
Expiration Date January 2024
Manufacturing Date January 2021
Storage Conditions Refrigerate
Solvent/Matrix SOIL

Acenaphthylene	µg/Kg	1948 ± 240
Anthracene	µg/Kg	2866 ± 237
Benzo(a)anthracene	µg/Kg	5751 ± 552
Benzo(a)pyrene	µg/Kg	5902 ± 612
Benzo(b)fluoranthene	µg/Kg	3010 ± 409
Benzo(b+k)fluoranthene	µg/Kg	6534 ± 196
Benzo(g,h,i)perylene	µg/Kg	1380 ± 136
Benzo(k)fluoranthene	µg/Kg	2215 ± 237
Butyl benzyl phthalate	µg/Kg	3511 ± 384
Carbazole	µg/Kg	5412 ± 407
Chrysene	µg/Kg	1477 ± 72
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	µg/Kg	2905 ± 321
Dibenzo(a,h)anthracene	µg/Kg	3420 ± 302
Dibenzofuran	µg/Kg	6130 ± 253
Dimethyl phthalate	µg/Kg	4537 ± 250
Di-n-butyl phthalate	µg/Kg	1721 ± 154
Di-n-octyl phthalate	µg/Kg	2744 ± 288
Fluoranthene	µg/Kg	2497 ± 222
Fluorene	µg/Kg	3724 ± 222
Hexachlorobutadiene	µg/Kg	1877 ± 245
Indeno(1,2,3-cd) pyrene	µg/Kg	3914 ± 409
Isophorone	µg/Kg	1615 ± 170
Naphthalene	µg/Kg	4458 ± 480
Nitrobenzene	µg/Kg	3539 ± 266
n-Nitrosodimethylamine	µg/Kg	1580 ± 402
n-Nitrosodiphenylamine	µg/Kg	2854 ± 379
Pentachlorophenol	µg/Kg	3411 ± 358
Phenanthrene	µg/Kg	5052 ± 385
Phenol	µg/Kg	2660 ± 184
Pyrene	µg/Kg	2964 ± 256
Pyridine	µg/Kg	1008 ± 30

Informational Values

Certificate of Analysis

BNAs - Sandy Loam 1

Certified Reference Material

Description

Product ID CRM143-50G
Lot **LRAC8918**
Expiration Date January 2024
Manufacturing Date January 2021
Storage Conditions Refrigerate
Solvent/Matrix SOIL

Analyte	*Units*	*Suggested Acceptance Windows*	*Standard Deviation*
1,2,4-Trichlorobenzene	µg/Kg	148 to 2853	459
1,3-Dichlorobenzene (m-Dichlorobenzene)	µg/Kg	163 to 3440	605
1-Chloronaphthalene	µg/Kg	1123 to 4494	562
2,3-Dimethylphenol	µg/Kg	1821 to 7284	910
2,4,5-Trichlorophenol	µg/Kg	1003 to 5872	811
2,4,6-Trichlorophenol	µg/Kg	640 to 3748	518
2,4-Dichlorophenol	µg/Kg	2391 to 11591	1533
2,4-Dimethylphenol	µg/Kg	0.00 to 13959	2534
2,4-Dinitrophenol	µg/Kg	1169 to 4675	584
2,4-Dinitrotoluene (2,4-DNT)	µg/Kg	1248 to 5388	690
2,6-Dichlorophenol	µg/Kg	1831 to 7324	916
2,6-Dimethylphenol	µg/Kg	3033 to 12132	1516
2-Chloronaphthalene	µg/Kg	748 to 3699	492
2-Chlorophenol	µg/Kg	415 to 2942	421
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	µg/Kg	0.00 to 10347	1733
2-Methylphenol (o-Cresol)	µg/Kg	1306 to 10702	1566
2-Nitrophenol	µg/Kg	1534 to 11379	1641
3,4-Dimethylphenol	µg/Kg	2874 to 11495	1437
3+4-Methylphenol (m+p-Cresol)	µg/Kg	4054 to 16218	2027
4-Bromophenyl phenyl ether (BDE-3)	µg/Kg	2901 to 11437	1423
4-Chloro-3-methylphenol	µg/Kg	677 to 3464	464
4-Chlorophenyl phenylether	µg/Kg	756 to 3348	432
4-Methylphenol (p-Cresol)	µg/Kg	2647 to 10587	1323
4-Nitrophenol	µg/Kg	681 to 14762	2650
Acenaphthene	µg/Kg	2243 to 8736	1082
Acenaphthylene	µg/Kg	712 to 3183	412
Anthracene	µg/Kg	1218 to 4515	550
Benzo(a)anthracene	µg/Kg	2806 to 8696	982
Benzo(a)pyrene	µg/Kg	2512 to 9292	1130
Benzo(b)fluoranthene	µg/Kg	1197 to 4822	604
Benzo(b+k)fluoranthene	µg/Kg	2614 to 10454	1307

Description

Lot **LRAC8918**
Expiration Date January 2024
Manufacturing Date January 2021
Storage Conditions Refrigerate
Solvent/Matrix SOIL

Benzo(g,h,i)perylene	µg/Kg	489 to 2271	297
Benzo(k)fluoranthene	µg/Kg	892 to 3537	441
Butyl benzyl phthalate	µg/Kg	1255 to 5766	752
Carbazole	µg/Kg	2032 to 8792	1127
Chrysene	µg/Kg	669 to 2284	269
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	µg/Kg	765 to 5045	713
Dibenzo(a,h)anthracene	µg/Kg	1257 to 5583	721
Dibenzofuran	µg/Kg	2766 to 9493	1121
Dimethyl phthalate	µg/Kg	1842 to 7231	898
Di-n-butyl phthalate	µg/Kg	495 to 2947	409
Di-n-octyl phthalate	µg/Kg	690 to 4798	685
Fluoranthene	µg/Kg	984 to 4009	504
Fluorene	µg/Kg	1638 to 5810	695
Hexachlorobutadiene	µg/Kg	425 to 3329	484
Indeno(1,2,3-cd) pyrene	µg/Kg	870 to 6957	1015
Isophorone	µg/Kg	437 to 2792	392
Naphthalene	µg/Kg	1131 to 7784	1109
Nitrobenzene	µg/Kg	1024 to 6054	838
n-Nitrosodimethylamine	µg/Kg	632 to 2528	316
n-Nitrosodiphenylamine	µg/Kg	1142 to 4567	571
Pentachlorophenol	µg/Kg	341 to 7037	1209
Phenanthrene	µg/Kg	2307 to 7798	915
Phenol	µg/Kg	681 to 4639	660
Pyrene	µg/Kg	1118 to 4810	615
Pyridine	µg/Kg	403 to 1613	202

Additional Information:

DESCRIPTION

The organic sample is a soil containing extractable BNAs for analysis by 8100, 8270, 8310 or equivalent methods.

This product consist of a 5 vials each containing 10g of soil for analysis of PAHs. Each vial is identical and has been tested how homogeneity. Only one vial is need for test the remaining vials are to be used for multiple methods or routine testing.

The soil has been sterilized to minimize degradation of the sample.

The sample has been sized to 100 mesh.

Required storage condition is 4ºC.

The sample has been intentionally prepared with an apparent headspace.

STORAGE

The sample should be stored at 4ºC. It has been determined to be stable for the duration of the expiration date.

After sub-sampling replace cap securely and store remaining sample at 4ºC.

The shelf life of the product was determined by historic stability of similar CRM's. The expiration date may be extended based on stock and popularity upon successful stability testing by a 17025 accredited laboratory.

Certificate of Analysis

BNAs - Sandy Loam 1

Certified Reference Material

Description

Product ID	CRM143-50G
Lot	**LRAC8918**
Expiration Date	January 2024
Manufacturing Date	January 2021
Storage Conditions	Refrigerate
Solvent/Matrix	SOIL

Stability and shelf life after opening must be determined by the user, taking into account sampling frequency/volume and all local conditions.

SAMPLE PREPARATION

Extract the complete contents of a single vial. Transfer entire contents of one vial to extraction vessel. Rinse vial and cap with extraction solvent.

Assume a 10g sample size for all calculations.

Note: Sample extracts and calibration solutions should be in the same solvent.

Report all results on a wet weight basis, do not correct for moisture.

NOTE: For method 8100 and using a packed column gas chromatographic method or cannot adequately resolve the following may coelute in four pairs of compounds: anthracene and phenanthrene; chrysene and benzo(a)anthracene; benzo(b)fluoranthene and benzo(k)fluoranthene; and dibenzo(a,h)anthracene and indeno(1,2,3-cd)pyrene.

SCOPE AND APPLICATION

The BNAs in Soil Certified Reference Material (CRM) consists of 5 10mL VOA vials, with a Teflon lined closures containing approximately 10 grams of soil, fortified with BNAs. Being a natural matrix waste sample the analyst is challenged by the same preparation problems, analytical interferences, etc. as is typical for similar matrices received by the laboratory for analysis.

Description

Lot	**LRAC8918**
Expiration Date	January 2024
Manufacturing Date	January 2021
Storage Conditions	Refrigerate
Solvent/Matrix	SOIL

1 **Metrological traceability:** Traceable to the SI and higher order standards from NIST through an unbroken chain of comparisons. The balance used to weigh raw materials is accurate to +/-0.0001 g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.
4 Ucrm - Uncertainty values in this document are expressed as Expanded Uncertainty (Ucrm) corresponding to the 95% confidence interval. Ucrm is derived from the combined standard uncertainty multiplied by the coverage factor k, which is obtained from a *t*-distribution and degrees of freedom. K=2 unless specified. The components of combined standard uncertainty include the uncertainties due to characterization, homogeneity, long term stability, and short term stability (transport). The components due to stability are generally considered to be negligible unless otherwise indicated by stability studies. The mathematical representation of the Ucrm calculation is as follows:

$$u_{CRM} = \sqrt{u_{char}^2 + u_{\text{hom } ogeneity}^2 + u_{stability}^2}$$

***k*:** Coverage factor derived from a t-distribution table, based on the degrees of freedom of the data set. Assume 2.0 for a **Confidence interval = 95%**

6 Analytical Value- For QC verification of the certified value only- not to be used in calculations. Represents the analytical data obtained by comparison to a standard as analyzed by the method described in the CoA or another acceptable method. The result may differ from the certified value and UCRM based on method uncertainty as well as the uncertainty associated with the standard used for comparison.

Traceability: The standard was manufactured under an ISO/IEC 17025:2017 certified quality system. The balance used to weigh raw materials is accurate to +/- 0.0001g and calibrated regularly using mass standards traceable to NIST. All dilutions were preformed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.

Homogeneity: Homogeneity was assessed in accordance with ISO 17034:2016. Completed units were sampled using a random stratified sampling protocol. The results of chemical analysis were then compared using a one-way analysis of variance approach as described by TNI EL-V3-2009 Appendix A.2. See Instructions for minimum sub-sample size.

Expiration is at end of month given on certificate and label.

MSDS reports for components comprising greater than 1.0% of the solution or 0.1% for components known to be carcinogens are available upon request.

THIS PRODUCT WAS DESIGNED, PRODUCED AND VERIFIED FOR ACCURACY AND STABILITY IN ACCORDANCE WITH **ISO/IEC 17025:2017 (ANAB Cert AT-1467)** and **ISO 17034:2016 (ANAB Cert AR-1470).**

Andy Ommen - QC Manager

Mark Pooler - QA Supervisor

Certification Date	January 05, 2021
Version	0-152021

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

Agilent

Certificate of Analysis

Product Name: Toxic Substances Standard

Product Number: US-103N-1 **Lot Issue Date:** 25-May-2021

Lot Number: 0006609664 **Expiration Date:** 30-Jun-2024

Description:
This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	Concentration ± Uncertainty
benzoic acid	000065-85-0	RM01884	2005 ± 10 µg/mL
o-cresol	000095-48-7	RM12877	2005 ± 10 µg/mL
p-cresol	000106-44-5	RM01988	2005 ± 10 µg/mL
2,4,5-trichlorophenol	000095-95-4	NT00344	2004 ± 10 µg/mL

Matrix: methylene chloride (dichloromethane)

Storage Conditions: Store at Room Temperature (15° to 30°C).

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:
This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Hazards:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this RM.

5/11/22

K004539
toxic sub mix#1
Solvent / Lot: methylene chloride
Prep: 5/11/2022 by JZ
Exp: 6/30/2024
Location:

ANAB ACCREDITED ISO17034 REFERENCE MATERIAL PRODUCER
ISO 17034 Cert No. AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026

www.agilent.com/quality/
CSD-QA-015.1

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY
ISO 17025 Cert No. AT-1937

ISO 17034

Agilent
Trusted Answers

Reference Material Certificate

Product Name: Phenols Standard
Product Number: US-107N-1
Storage Conditions: Store at Room Temperature (15° to 30°C).

Lot Number: 0006648297
Lot Issue Date: 17-Nov-2021
Expiration Date: 31-Dec-2024

Component Name	CERTIFIED VALUES Concentration	Expanded Uncertainty	CAS#	Analyte Lot
4-chloro-3-methylphenol	2006 ±	10 µg/mL	000059-50-7	RM01885
2-chlorophenol	2007 ±	10 µg/mL	000095-57-8	RM01871
2,4-dichlorophenol	2005 ±	10 µg/mL	000120-83-2	RM13878
2,4-dimethylphenol	2006 ±	10 µg/mL	000105-67-9	RM13009
2,4-dinitrophenol	2006 ±	10 µg/mL	000051-28-5	RM02112
2-methyl-4,6-dinitrophenol	2005 ±	10 µg/mL	000534-52-1	RM02292
2-nitrophenol	2007 ±	10 µg/mL	000088-75-5	RM13445
4-nitrophenol	2006 ±	10 µg/mL	000100-02-7	RM03752
pentachlorophenol	2006 ±	10 µg/mL	000087-86-5	RM02474
phenol	2006 ±	10 µg/mL	000108-95-2	RM11471
2,4,6-trichlorophenol	2006 ±	10 µg/mL	000088-06-2	RM18096

Matrix: methylene chloride (dichloromethane)

Description:
This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Safety:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this analytical reference material.

5/11/22

CSD-QA-015.1

K004540
phenols mix
Solvent / Lot: methylene chloride
Prep: 5/11/2022 by JZ
Exp: 12/31/2024
Location:

ISO 17034

Agilent
Trusted Answers

Reference Material Certificate

Product Name: PAH Standard
Product Number: US-106N-1
Storage Conditions: Store at Room Temperature (15° to 30°C).

Lot Number: 0006627349
Lot Issue Date: 17-Sep-2021
Expiration Date: 31-Oct-2024

Component Name	CERTIFIED VALUES Concentration	Expanded Uncertainty	CAS#	Analyte Lot
acenaphthene	2007 ±	10 µg/mL	000083-32-9	RM10879
acenaphthylene	2004 ±	10 µg/mL	000208-96-8	RM10891
anthracene	2006 ±	10 µg/mL	000120-12-7	RM14212
benz[a]anthracene	2006 ±	10 µg/mL	000056-55-3	RM16072
benzo[b]fluoranthene	2006 ±	10 µg/mL	000205-99-2	RM14571
benzo[k]fluoranthene	2006 ±	10 µg/mL	000207-08-9	RM18376
benzo[ghi]perylene	2006 ±	10 µg/mL	000191-24-2	RM15761
benzo[a]pyrene	2006 ±	10 µg/mL	000050-32-8	RM17573
chrysene	2007 ±	10 µg/mL	000218-01-9	RM13771
dibenz[a,h]anthracene	2006 ±	10 µg/mL	000053-70-3	RM06786
fluoranthene	2006 ±	10 µg/mL	000206-44-0	RM12277
fluorene	2006 ±	10 µg/mL	000086-73-7	RM09441
indeno[1,2,3-cd]pyrene	2006 ±	10 µg/mL	000193-39-5	RM14192
naphthalene	2007 ±	10 µg/mL	000091-20-3	RM10445
phenanthrene	2005 ±	10 µg/mL	000085-01-8	RM10495
pyrene	2005 ±	10 µg/mL	000129-00-0	RM16126

Matrix: methylene chloride/benzene (1:1)

Description:
This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

K004541
SVOA PAH STD 2000ug/ml
Solvent / Lot: DCM/BENZENE
Prep: 5/11/2022 by JZ
Exp: 10/31/2024
Location: Fridge 19

CSD-QA-015.1

11/22

Reference Materials Producer
Cert #2495.01

Certificate of Analysis

Chemical Testing
Cert #2495.02

Catalog Number: ECS-A-030 **Lot No.** AA210126005

Description: Base/Neutrals Mix 1

Matrix: Methylene Chloride

Manufactured Date: 1-26-2021

Expiration Date: 1-26-2024

This **SPEXOrganics**® Certified Reference Material, CRM, is intended primarily for use as a calibration standard or quality control standard for organic chromatography instrumentation such as GC, GC-MS, LC, and LC-MS. It can be employed in USEPA, ASTM and other methods relevant to the certified properties listed below.

Certified Compounds:

Compound	CAS #	Labeled	Purity	Certified†	Uncertainty
1,2,4-Trichlorobenzene	120-82-1	2000 µg/mL	99%	2010 µg/mL	± 50 µg/mL
1,2-Dichlorobenzene	95-50-1	2000 µg/mL	99%	2002 µg/mL	± 50 µg/mL
1,3-Dichlorobenzene	541-73-1	2000 µg/mL	98%	2021 µg/mL	± 51 µg/mL
1,4-Dichlorobenzene	106-46-7	2000 µg/mL	99%	2012 µg/mL	± 50 µg/mL
2,4-Dinitrotoluene	121-14-2	2000 µg/mL	97%	2006 µg/mL	± 50 µg/mL
2,6-Dinitrotoluene	606-20-2	2000 µg/mL	99.6%	2012 µg/mL	± 50 µg/mL
2-Chloronaphthalene	91-58-7	2000 µg/mL	98%	2004 µg/mL	± 50 µg/mL
4-Bromodiphenyl ether	101-55-3	2000 µg/mL	99%	2022 µg/mL	± 51 µg/mL
4-Chlorophenyl-phenyl ether	7005-72-3	2000 µg/mL	98%	2001 µg/mL	± 50 µg/mL
Azobenzene	103-33-3	2000 µg/mL	98%	2001 µg/mL	± 50 µg/mL
Bis(2-chloro-1-methylethyl) ether	108-60-1	2000 µg/mL	98.9%	2010 µg/mL	± 50 µg/mL
bis(2-Chloroethoxy)methane	111-91-1	2000 µg/mL	97%	2001 µg/mL	± 50 µg/mL
bis(2-Chloroethyl)ether	111-44-4	2000 µg/mL	99%	2002 µg/mL	± 50 µg/mL
Bis(2-Ethylhexyl)phthalate	117-81-7	2000 µg/mL	99%	2003 µg/mL	± 50 µg/mL
Butylbenzyl phthalate	85-68-7	2000 µg/mL	98%	2000 µg/mL	± 50 µg/mL
Carbazole	86-74-8	2000 µg/mL	95%	2009 µg/mL	± 50 µg/mL
Di-n-butyl phthalate	84-74-2	2000 µg/mL	99%	2020 µg/mL	± 50 µg/mL
Di-n-octyl phthalate	117-84-0	2000 µg/mL	98%	2000 µg/mL	± 50 µg/mL
Diethyl phthalate	84-66-2	2000 µg/mL	99.5%	2002 µg/mL	± 50 µg/mL
Dimethyl phthalate	131-11-3	2000 µg/mL	99%	2006 µg/mL	± 50 µg/mL
Hexachlorobenzene	118-74-1	2000 µg/mL	99%	2003 µg/mL	± 50 µg/mL
Hexachlorobutadiene	87-68-3	2000 µg/mL	97%	2003 µg/mL	± 50 µg/mL
Hexachlorocyclopentadiene	77-47-4	2000 µg/mL	99%	2003 µg/mL	± 50 µg/mL
Hexachloroethane	67-72-1	2000 µg/mL	98%	2003 µg/mL	± 50 µg/mL
Isophorone	78-59-1	2000 µg/mL	97%	2003 µg/mL	± 50 µg/mL
N-Nitrosodi-n-propylamine	621-64-7	2000 µg/mL	98%	2000 µg/mL	± 50 µg/mL
N-Nitrosodiphenylamine	86-30-6	2000 µg/mL	97%	2001 µg/mL	± 50 µg/mL
Nitrobenzene	98-95-3	2000 µg/mL	99%	2001 µg/mL	± 50 µg/mL
Pyridine	110-86-1	2000 µg/mL	99%	2004 µg/mL	± 50 µg/mL
N-Nitrosodimethylamine	62-75-9	2000 µg/mL	97%	2000 µg/mL	± 50 µg/mL

Certificate of Reference Material

Catalog Number: ECS-A-030

Description: Base/Neutrals Mix 1

Matrix: Methylene Chloride

Lot No. AA210126005

Manufactured Date: 1-26-2021

Expiration Date: 1-26-2024

Final Solution Verification:

Final solution integrity verified by Gas Chromatography/Mass Spectrometry. The mass spectrum of each compound was confirmed against the NIST mass spectral database.

† Certified concentration based on gravimetric weights and corrected for the purity of the compound(s) used to prepare the standard. Analytical balance calibration is verified daily with C1 weight set #23-190006 which is registered with Atlantic Scale, and traceable to NIST and NJ Division of Weights and Measures.

This CRM is guaranteed stable and accurate to within the uncertainty listed for the certified value. This includes uncertainty components due to preparation, homogeneity, short term and long term stability. During the stated period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution. For further information, contact the Sales Support Department at crmsales@spexcsp.com.

Date of Certification: 1-26-2021

Certifying Officer: Shannon Mora

Report of Certification

Catalog Number: ECS-A-030 **Lot No.** AA210126005

Description: Base/Neutrals Mix 1

Matrix: Methylene Chloride

Manufactured Date: 1-26-2021

Expiration Date: 1-26-2024

This Certified Reference Material (CRM) has been prepared and certified under an ISO 9001:2008, ISO 17025:2005, and ISO Guide 34:2009 Quality System consistent with the following standards:

- ISO 9001:2008: Quality management systems - Requirements - Certified by UL-DQS
- ISO 17025:2005: General Requirements for the Competence of Testing and Calibration Laboratories - Accredited by A2LA
- ISO Guide 34:2009: General Requirements for the Competence of Reference Material Producers - Accredited by A2LA
- ISO Guide 31:2000: Reference Materials - Contents of Certificates and Labels
- ISO Guide 35:2006: Reference Materials - General and statistical principals for certification
- Guide to the Expression of Uncertainty in Measurement 1997
- EURACHEM/CITAC Guide: Qualifying Uncertainty in Analytical Measurements - Second Edition
- ASTM Guide D6362-98
- NIST Technical Note 1297
- ILAC-G12-2000: Guidelines for the requirements for the competence of reference material producers
- ISO/REMCO N280

Storage Requirements:

To ensure the stability of the product once it arrives in your laboratory , please store this product in a refrigerator (2°C to 8°C). Note: Shipping conditions may differ from storage conditions. The EXPIRATION DATE is calculated from the MANUFACTURED DATE using our stability data and is applicable only if the product is unopened and stored under the prescribed conditions.

Instructions for Use:

Let material come to room temperature before use. Check for precipitate and if necessary sonicate for one minute. If compounds do not dissolve after one minute then sonicate further until the product is dissolved. A clear appearance is acceptable. The minimum recommended amount that should be removed from this vial is 5 µL with a 25µL gas tight syringe. All solutions should be thoroughly mixed, by shaking, prior to use. All surfaces that come in contact with the solution must be thoroughly cleaned prior to use. Dilutions should be performed only with Class A volumetric glassware.

Material Source:

All analytes and matrix materials are obtained and verified by SPEX CertiPrep from pre-qualified vendors as per ISO guidelines. Vendor identifications are proprietary, however sources of all materials used in the preparation and testing of SPEX CertiPrep CRMs are tracked and documented. For assistance, please contact sales support at crmsales@spexcsp.com.

Method of Preparation:

Clean laboratory procedures and techniques have been used throughout the preparation. All materials, equipment, and analytical instrumentation have been qualified prior to use. The highest purity solvents and Class A / calibrated volumetrics have been been used in all preparations.

Homogeneity:

The homogeneity of this CRM has been confirmed by procedures consistent with ISO 17025:2005, ISO Guide 34:2009, and ASTM D6362-98 Appendix X2. Random, replicate samples of the final, packaged material have been analyzed to prove homogeneity in accordance with our internal procedure 4300-HOMOGEN-1A. This is consistent with the intended use of this CRM. The Degree of Homogeneity, as expressed as maximum between-bottle variation, is 1.2%

Statistical Estimator and Confidence Limits:

The Certified value 'X' as listed on the reverse of this document is at the 95% level of confidence and can be expressed as:

- $X = x \pm U$ where X=certified value, U=expanded uncertainty, x=property value
- $U = ku_c$ where k=2 is the coverage factor at the 95% confidence level
- u_c = combined standard uncertainty obtained by combining the individual compound standard uncertainty components u_i, where $u_c = \sqrt{\sum u_i^2}$

Legal Notice:

SPEX CertiPrep Certified Reference Materials are not for any cosmetic, drug, or household application and are to be used only by qualified individuals who are trained in appropriate procedures. No claims against SPEX CertiPrep of any kind whatsoever, whether based on breech of warranty, alleged negligence, or otherwise, with respect to this Reference Material shall be greater than the purchase price. In no event shall SPEX CertiPrep be liable for any loss of profits or any incidental, special, or consequential damages.

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Phone: 1-732-549-7144 • Fax 1-732-603-9647

Accredited to 17025 & Guide 34 ISO Certified to 9001

ACCREDITED
Reference Materials Producer
Cert #2495.01

ECS

Certificate of Analysis

ilac-MRA ACCREDITED
Chemical Testing
Cert #2495.02

Catalog Number: ECS-A-030 **Lot No.** AA210126005

Description: Base/Neutrals Mix 1

Matrix: Methylene Chloride

Manufactured Date: 1-26-2021

Expiration Date: 1-26-2024

This **SPEXOrganics®** Certified Reference Material, CRM, is intended primarily for use as a calibration standard or quality control standard for organic chromatography instrumentation such as GC, GC-MS, LC, and LC-MS. It can be employed in USEPA, ASTM and other methods relevant to the certified properties listed below.

Certified Compounds:

Compound	CAS #	Labeled	Purity	Certified†	Uncertainty
1,2,4-Trichlorobenzene	120-82-1	2000 µg/mL	99%	2010 µg/mL	± 50 µg/mL
1,2-Dichlorobenzene	95-50-1	2000 µg/mL	99%	2002 µg/mL	± 50 µg/mL
1,3-Dichlorobenzene	541-73-1	2000 µg/mL	98%	2021 µg/mL	± 51 µg/mL
1,4-Dichlorobenzene	106-46-7	2000 µg/mL	99%	2012 µg/mL	± 50 µg/mL
2,4-Dinitrotoluene	121-14-2	2000 µg/mL	97%	2006 µg/mL	± 50 µg/mL
2,6-Dinitrotoluene	606-20-2	2000 µg/mL	99.6%	2012 µg/mL	± 50 µg/mL
2-Chloronaphthalene	91-58-7	2000 µg/mL	98%	2004 µg/mL	± 50 µg/mL
4-Bromodiphenyl ether	101-55-3	2000 µg/mL	99%	2022 µg/mL	± 51 µg/mL
4-Chlorophenyl-phenyl ether	7005-72-3	2000 µg/mL	98%	2001 µg/mL	± 50 µg/mL
Azobenzene	103-33-3	2000 µg/mL	98%	2001 µg/mL	± 50 µg/mL
Bis(2-chloro-1-methylethyl) ether	108-60-1	2000 µg/mL	98.9%	2010 µg/mL	± 50 µg/mL
bis(2-Chloroethoxy)methane	111-91-1	2000 µg/mL	97%	2001 µg/mL	± 50 µg/mL
bis(2-Chloroethyl)ether	111-44-4	2000 µg/mL	99%	2002 µg/mL	± 50 µg/mL
Bis(2-Ethylhexyl)phthalate	117-81-7	2000 µg/mL	99%	2003 µg/mL	± 50 µg/mL
Butylbenzyl phthalate	85-68-7	2000 µg/mL	98%	2000 µg/mL	± 50 µg/mL
Carbazole	86-74-8	2000 µg/mL	95%	2009 µg/mL	± 50 µg/mL
Di-n-butyl phthalate	84-74-2	2000 µg/mL	99%	2020 µg/mL	± 50 µg/mL
Di-n-octyl phthalate	117-84-0	2000 µg/mL	98%	2000 µg/mL	± 50 µg/mL
Diethyl phthalate	84-66-2	2000 µg/mL	99.5%	2002 µg/mL	± 50 µg/mL
Dimethyl phthalate	131-11-3	2000 µg/mL	99%	2006 µg/mL	± 50 µg/mL
Hexachlorobenzene	118-74-1	2000 µg/mL	99%	2003 µg/mL	± 50 µg/mL
Hexachlorobutadiene	87-68-3	2000 µg/mL	97%	2003 µg/mL	± 50 µg/mL
Hexachlorocyclopentadiene	77-47-4	2000 µg/mL	99%	2003 µg/mL	± 50 µg/mL
Hexachloroethane	67-72-1	2000 µg/mL	98%	2003 µg/mL	± 50 µg/mL
Isophorone	78-59-1	2000 µg/mL	97%	2003 µg/mL	± 50 µg/mL
N-Nitrosodi-n-propylamine	621-64-7	2000 µg/mL	98%	2000 µg/mL	± 50 µg/mL
N-Nitrosodiphenylamine	86-30-6	2000 µg/mL	97%	2001 µg/mL	± 50 µg/mL
Nitrobenzene	98-95-3	2000 µg/mL	99%	2001 µg/mL	± 50 µg/mL
Pyridine	110-86-1	2000 µg/mL	99%	2004 µg/mL	± 50 µg/mL
N-Nitrosodimethylamine	62-75-9	2000 µg/mL	97%	2000 µg/mL	± 50 µg/mL

K004542

Certificate of Reference Material

Catalog Number: ECS-A-030 **Lot No.** AA210126005

Description: Base/Neutrals Mix 1

Matrix: Methylene Chloride

Manufactured Date: 1-26-2021

Expiration Date: 1-26-2024

Final Solution Verification:

Final solution integrity verified by Gas Chromatography/Mass Spectrometry. The mass spectrum of each compound was confirmed against the NIST mass spectral database.

† Certified concentration based on gravimetric weights and corrected for the purity of the compound(s) used to prepare the standard. Analytical balance calibration is verified daily with C1 weight set #23-190006 which is registered with Atlantic Scale, and traceable to NIST and NJ Division of Weights and Measures.

This CRM is guaranteed stable and accurate to within the uncertainty listed for the certified value. This includes uncertainty components due to preparation, homogeneity, short term and long term stability. During the stated period of validity, the purchaser will be notified if this product is recalled due to any significant changes in the stability of the solution. For further information, contact the Sales Support Department at crmsales@spexcsp.com.

Date of Certification: 1-26-2021 Certifying Officer: Shannon Nave

Report of Certification

Catalog Number: ECS-A-030 **Lot No.** AA210126005

Description: Base/Neutrals Mix 1

Matrix: Methylene Chloride

Manufactured Date: 1-26-2021

Expiration Date: 1-26-2024

This Certified Reference Material (CRM) has been prepared and certified under an ISO 9001:2008, ISO 17025:2005, and ISO Guide 34:2009 Quality System consistent with the following standards:

- ISO 9001:2008: Quality management systems - Requirements - Certified by UL-DQS
- ISO 17025:2005: General Requirements for the Competence of Testing and Calibration Laboratories - Accredited by A2LA
- ISO Guide 34:2009: General Requirements for the Competence of Reference Material Producers - Accredited by A2LA
- ISO Guide 31:2000: Reference Materials - Contents of Certificates and Labels
- ISO Guide 35:2006: Reference Materials - General and statistical principals for certification
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- EURACHEM/CITAC Guide: Qualifying Uncertainty in Analytical Measurements - Second Edition
- ASTM Guide D6362-98
- NIST Technical Note 1297
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Storage Requirements:

To ensure the stability of the product once it arrives in your laboratory, please store this product in a refrigerator (2°C to 8°C). Note: Shipping conditions may differ from storage conditions. The EXPIRATION DATE is calculated from the MANUFACTURED DATE using our stability data and is applicable only if the product is unopened and stored under the prescribed conditions.

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Material Source:

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Method of Preparation:

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Homogeneity:

The homogeneity of this CRM has been confirmed by procedures consistent with ISO 17025:2005, ISO Guide 34:2009, and ASTM D6362-98 Appendix X2. Random, replicate samples of the final, packaged material have been analyzed to prove homogeneity in accordance with our internal procedure 4300-HOMOGEN-1A. This is consistent with the intended use of this CRM. The Degree of Homogeneity, as expressed as maximum between-bottle variation, is 1.2%

Statistical Estimator and Confidence Limits:

The Certified value 'X' as listed on the reverse of this document is at the 95% level of confidence and can be expressed as:

- $X = x \pm U$ where X=certified value, U=expanded uncertainty, x=property value
- $U = ku_c$ where k=2 is the coverage factor at the 95% confidence level
- u_c = combined standard uncertainty obtained by combining the individual compound standard uncertainty components u_i where $u_c = \sqrt{\sum u_i^2}$

Legal Notice:

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Agilent

Certificate of Analysis

Product Name: 1-Methylnaphthalene Standard

Product Number: EPA-1225-1 **Lot Issue Date:** 19-Jul-2021

Lot Number: 0006624769 **Expiration Date:** 31-Jul-2023

Description:
This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	Concentration ± Uncertainty
1-methylnaphthalene	000090-12-0	RM07712	999.3 ± 5.0 µg/mL

Matrix: methanol (methyl alcohol)

Storage Conditions: Store at Room Temperature (15° to 30°C).

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:
This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Hazards:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this RM.

Expiration of Certification:
The certification of this RM is valid until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.

Maintenance of Certification:
If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

K004543
1-Methylnaphthalene
Solvent / Lot: MEOH
Prep: 5/11/2022 by JZ
Exp: 7/31/2023
Location:

5/11/22

Sample lot approver:
Monica Bourgeois
QMS Representative

ANAB ACCREDITED ISO17034 REFERENCE MATERIAL PRODUCER
ISO 17034 Cert
No. AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026
Page: 1 of 1
www.agilent.com/quality/
CSD-QA-015.1

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY
ISO 17025 Cert
No. AT-1937

Agilent

Certificate of Analysis

Product Name: Toxic Substances Standard

Product Number: US-104N-1 **Lot Issue Date:** 02-Jul-2021

Lot Number: 0006620643 **Expiration Date:** 31-Jul-2023

Description:
This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	Concentration ± Uncertainty
aniline	000062-53-3	RM12853	2005 ± 10 µg/mL
benzyl alcohol	000100-51-6	RM10547	2004 ± 10 µg/mL
4-chloroaniline	000106-47-8	RM01886	2002 ± 10 µg/mL
dibenzofuran	000132-64-9	RM02077	2002 ± 10 µg/mL
2-methylnaphthalene	000091-57-6	RM01258	2006 ± 10 µg/mL
2-nitroaniline	000088-74-4	RM02402	2003 ± 10 µg/mL
3-nitroaniline	000099-09-2	RM02424	2003 ± 10 µg/mL
4-nitroaniline	000100-01-6	RM02425	2003 ± 10 µg/mL

Matrix: methylene chloride (dichloromethane)

Storage Conditions: Store at Room Temperature (15° to 30°C).

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:
This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

K004544
toxic sub mix#2
Solvent / Lot: methylene chloride
Prep: 5/11/2022 by JZ
Exp: 7/31/2023
Location:

05/11/22

ANAB ACCREDITED ISO17034 REFERENCE MATERIAL PRODUCER
ISO 17034 Cert No. AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026

www.agilent.com/quality/
CSD-QA-015.1

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY
ISO 17025 Cert No. AT-1937

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Certificate of Analysis

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Reference Material Producer
Certificate #3222.01

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ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31493 **Lot No.:** A0181243

Description : CLP 04.1 BNA Surrogate Mix

CLP 04.1 BNA Surrogate Mix 1000-1500 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : October 31, 2025 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

05/11/22

K004545
CLP 04.1 BNA SURR MIX
Solvent / Lot: AO175316
Prep: 5/11/2022 by JZ
Exp: 10/20/2025
Location:

Elution Order	Compound	Gr (weig					
1	2-Fluorophenol **CAS #** 367-12-4 (Lot STBJ2508) **Purity** 99%	1,50					
				+/-	53.3632	µg/mL	Stressed
2	Phenol-d6 **CAS #** 13127-88-3 (Lot PR-31262) **Purity** 99%	1,506.0	µg/mL	+/-	8.9452	µg/mL	Gravimetric
				+/-	43.9882	µg/mL	Unstressed
				+/-	53.3632	µg/mL	Stressed
3	2-Chlorophenol-d4 **CAS #** 93951-73-6 (Lot PR-30568) **Purity** 99%	1,510.0	µg/mL	+/-	8.9689	µg/mL	Gravimetric
				+/-	44.1050	µg/mL	Unstressed
				+/-	53.5049	µg/mL	Stressed
4	1,2-Dichlorobenzene-d4 **CAS #** 2199-69-1 (Lot PR-32542/022621DB1 **Purity** 99%	1,004.0	µg/mL	+/-	5.9635	µg/mL	Gravimetric
				+/-	29.3255	µg/mL	Unstressed
				+/-	35.5754	µg/mL	Stressed
5	Nitrobenzene-d5 **CAS #** 4165-60-0 (Lot PR-29940A) **Purity** 99%	1,008.0	µg/mL	+/-	5.9872	µg/mL	Gravimetric
				+/-	29.4423	µg/mL	Unstressed
				+/-	35.7172	µg/mL	Stressed
6	2-Fluorobiphenyl **CAS #** 321-60-8 (Lot 19169) **Purity** 99%	1,006.0	µg/mL	+/-	5.9753	µg/mL	Gravimetric
				+/-	29.3839	µg/mL	Unstressed
				+/-	35.6463	µg/mL	Stressed
7	2,4,6-Tribromophenol **CAS #** 118-79-6 (Lot MKCJ7664) **Purity** 99%	1,506.0	µg/mL	+/-	8.9452	µg/mL	Gravimetric
				+/-	43.9882	µg/mL	Unstressed
				+/-	53.3632	µg/mL	Stressed

Certificate of Analysis

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Access your Safety Data Sheets and digital Certificates at **www.phenova.com/documents.**

Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.:	AL0-101246	**Lot Number:**	CL17953
Description:	Benzoic Acid	**Certification Date:**	January 31, 2022
Storage:	4 °C	**Expiration Date:**	January 31, 2032
Provided As:	1 mL in 2 mL Ampoule in Methylene Chloride		

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Benzoic acid	65-85-0	2000	± 2.714%

K004603
Benzoic Acid @2000ug/ml
Solvent / Lot: N/A
Prep: 5/13/2022 by JZ
Exp: 1/31/2032
Location: GC

5/13/22

Certificate of Analysis

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101244
Description: Benzidines Standard
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Methylene Chloride

Lot Number: CL17662
Certification Date: December 2, 2021
Expiration Date: November 30, 2031

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Benzidine	92-87-5	2000	± 0.211%
3,3'-Dichlorobenzidine	91-94-1	2000	± 1.305%

K004604
Benzidines std @2000ug/ml
Solvent / Lot: MeCl2
Prep: 5/13/2022 by JZ
Exp: 11/30/2031
Location: GC

5/13/22

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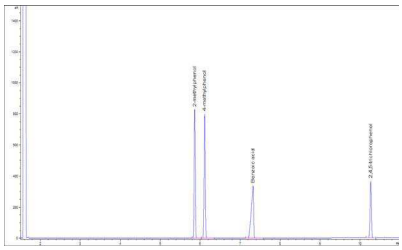
Certificate of Analysis - Certified Reference Material

EPA TCL Hazardous Substances Mix 1

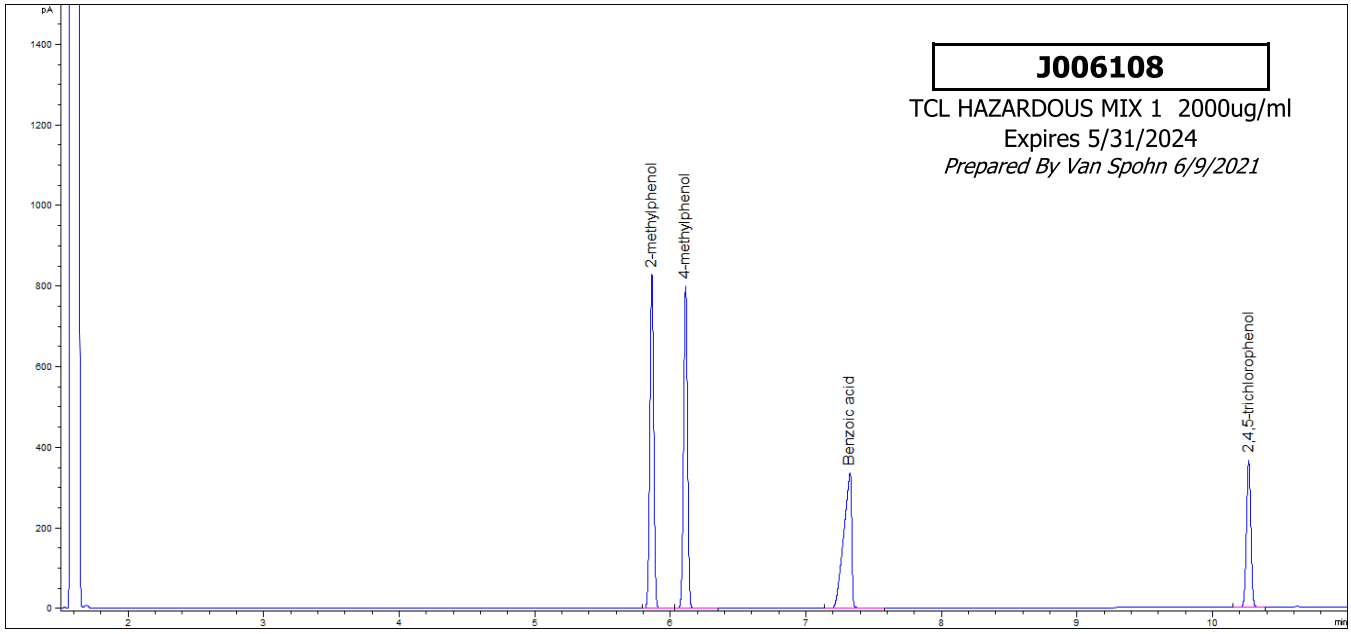
Product no.: 48907
Lot no.: LRAC9610
Expiry Date: May 2024
Manufacturing Date: May 2021
Storage: Refrigerate
Solvent/Matrix: DICHLOROMETHANE
Certificate version: LRAC9610.01 *(Note: Certificates may be updated due to the availability of new data. Check our website at: www.sigma-aldrich.com for the most current version.)*



Certified Values:

Analyte	*Certified Value*	*Units*	*Raw Material Purity,%*	*Elution order*	*Raw Material Lot*
2-METHYLPHENOL CAS# 95-48-7	2004 ± 9	µg/mL	99.0	1	G1735A
4-METHYLPHENOL CAS# 106-44-5	2004 ± 13	µg/mL	98.9	2	06921MG
BENZOIC ACID CAS# 65-85-0	2012 ± 6	µg/mL	99.9	3	LC16514
2,4,5-TRICHLOROPHENOL CAS# 95-95-4	2003 ± 6	µg/mL	99.9	4	JS00008

Informational Values:



Additional Information:
Analytical Method Parameters:
Column: Equity-5, 30 m × 0.53 mm I.D., 1.5 µm film thickness (Column #98)
Carrier Gas: H2, Flow: 4.5 mL/min
Inlet Temperature: 170 °C, Injection Volume: 1 µL
Injection Mode: Split, Split Ratio: 20:1

Sigma-Aldrich RTC, 2931 Soldier Springs Rd. Laramie, WY 82070, USA;
Tel. 1 307-742-5452; Fax 1 855-831-9211; www.sigmaaldrich.com
Sigma-Aldrich RTC is a subsidiary of Merck KGaA, Darmstadt, Germany.

Temperature Program: 80 °C @ 10 °C/min to 190 °C (Hold 5 min)
Detector: FID
Detector Temperature: 310 °C

Metrological traceability: Traceable to the SI and higher order standards from NIST through an unbroken chain of comparisons. The balance used to weigh raw materials is accurate to +/-0.0001 g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.

Measurement method: Where applicable, the assigned value is based on a purity determination by mass balance and gravimetrically prepared value.

Intended use: Intended for R&D and Analytical Use only. Not for drug, household or other uses.

Packaging: 1 mL in amber ampule

Instructions for handling and correct use: Use on the as is basis. The internal pressure of the container may be slightly different from the atmospheric pressure at the user`s location. Open slowly and carefully to avoid dispersion of the material.

Health and safety information: All chemical reference materials should be considered potentially hazardous and should be used only by qualified laboratory personnel. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.

Accreditation: Sigma-Aldrich RTC is accredited by the US accreditation authority ANAB as a registered reference material producer AR-1470 in accordance with ISO 17034.

Certificate issue date: 20-May-2021

Andy Ommen - QC Manager

Mark Pooler - QA Supervisor

Details on metrological traceability: This standard has been gravimetrically prepared using balances that have been fully qualified and calibrated to ISO 17025 requirements. All calibrations utilize NIST traceable weights which are calibrated externally by a qualified ISO 17025 accredited calibration laboratory to NIST standards. Qualification of each balance includes the assignment of a minimum weighing by a qualified and ISO 17025 accredited calibration vendor taking into consideration the balance and installed environmental conditions to ensure compliance with USP tolerances of NMT 0.10% relative error. Fill volume to predetermined specifications is gravimetrically verified throughout the dispensing process using qualified and calibrated balances. Further traceability to a corresponding Primary Standard may be achieved through a direct comparison assay. Where a Primary Standard is available, the assay value will be included in the specified section of the COA.

Associated uncertainty: Ucrm - Uncertainty values in this document are expressed as Expanded Uncertainty (Ucrm) corresponding to the 95% confidence interval. Ucrm is derived from the combined standard uncertainty multiplied by the coverage factor k, which is obtained from a *t*-distribution and degrees of freedom. The components of combined standard uncertainty include the uncertainties due to characterization, homogeneity, long term stability, and short term stability (transport). The components due to stability are generally considered to be negligible unless otherwise indicated by stability studies. The mathematical representation of the Ucrm calculation is as follows:

$$u_{CRM} = \sqrt{u_{char}^2 + u_{\text{hom}\ ogeneity}^2 + u_{stability}^2}$$

Homogeneity assessment: Homogeneity was assessed in accordance with ISO Guide 35. Completed units were sampled using a random stratified sampling protocol. The results of chemical analysis were then compared by Single Factor Analysis of Variance (ANOVA). The uncertainty due to homogeneity was derived from the ANOVA. Heterogeneity was not detected under the conditions of the ANOVA.

Stability assessment: Significance of the stability assessment will be demonstrated if the analytical result of the study and the range of values represented by the Expanded Uncertainty do not overlap the result of the original assay and the range of its values represented by the Expanded Uncertainty. The method employed will usually be the same method used to characterize the assay value in the initial

Certificate of analysis revision history:

Certificate version	Date	Reason for version
LRAC9610.01	20-May-2021	Original Release Date

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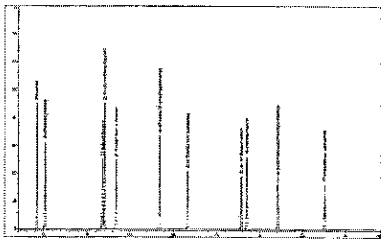
Certificate of Analysis - Certified Reference Material

EPA TCL Phenols Mix

Product no.: 48904
Lot no.: LRAD0139
Expiry Date: July 2024
Manufacturing Date: July 2021
Storage: REFRIGERATE
Solvent/Matrix: DICHLOROMETHANE
Certificate version: LRAD0139.01 *(Note: Certificates may be updated due to the availability of new data. Check our website at: www.sigma-aldrich.com for the most current version.)*



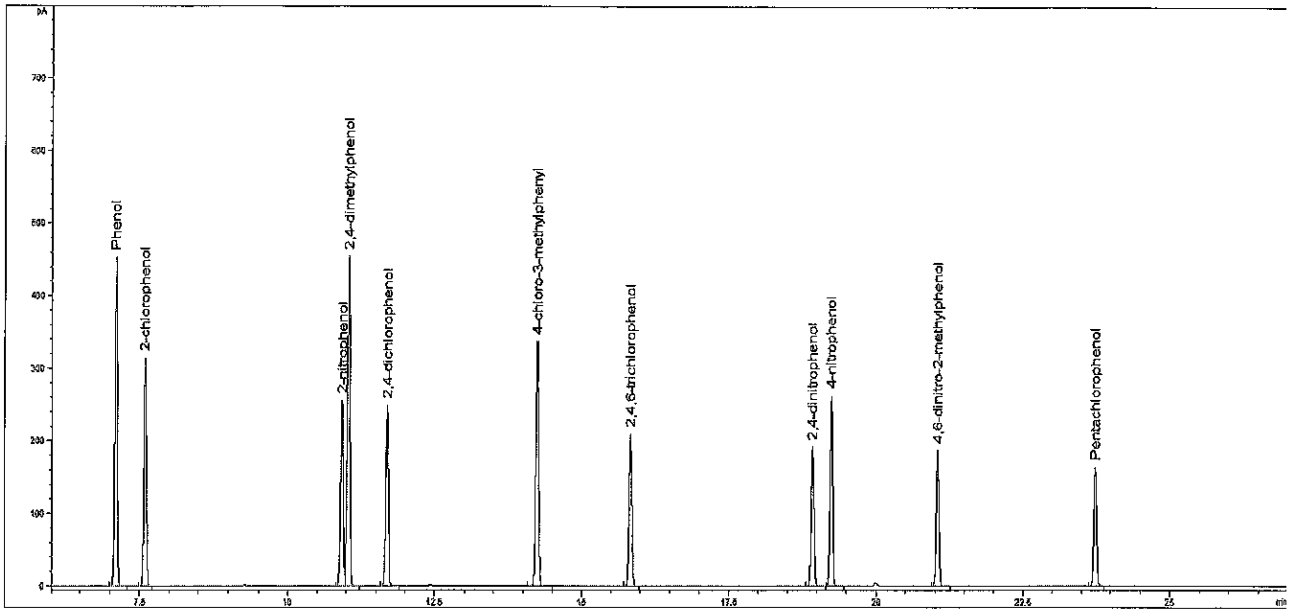
Certified Values:

Analyte	*Certified Value*	*Units*	*Raw Material Purity,%*	*Raw Material Lot*
2-CHLOROPHENOL CAS# 95-57-8	2001 ± 25	µg/mL	99.9	STBG3033V
2-NITROPHENOL CAS# 88-75-5	1999 ± 18	µg/mL	99.3	15905BB
2,4-DIMETHYLPHENOL CAS# 105-67-9	2000 ± 14	µg/mL	99.2	05421CO
2,4-DICHLOROPHENOL CAS# 120-83-2	2000 ± 17	µg/mL	99.5	03221TN
4-CHLORO-3-METHYLPHENOL CAS# 59-50-7	2000 ± 5	µg/mL	99.9	JS00013
2,4,6-TRICHLOROPHENOL CAS# 88-06-2	2002 ± 5	µg/mL	99.5	04212PS
2,4-DINITROPHENOL CAS# 51-28-5	2000 ± 28	µg/mL	66.9	STBJ5751
4-NITROPHENOL CAS# 100-02-7	2000 ± 33	µg/mL	99.0	04628LT
2-METHYL-4,6-DINITROPHENOL CAS# 534-52-1	2000 ± 27	µg/mL	99.7	LC18338
PENTACHLOROPHENOL CAS# 87-86-5	1999 ± 25	µg/mL	97.9	MKCD2150

ASSAY Method

J013597
TCL Phenols Mix 2000ug/ml
Solvent / Lot: LRAD0139
Prep: 12/30/2021 by VS
Exp: 7/31/2024
Location:

Sigma-Aldrich RTC, 2931 Soldier Springs Rd. Laramie, WY 82070, USA;
Tel. 1 307-742-5452; Fax 1 855-831-9211; www.sigmaaldrich.com
Sigma-Aldrich RTC is a subsidiary of Merck KGaA, Darmstadt, Germany.



METHOD: GC (Bellefonte Method)

Column: SPB-5, 30 m × 0.53 mm I.D., 1.5 µm film thickness
Carrier Gas: H_2 Flow Rate: 4.5 mL/min
Inlet Temperature: 200 °C Injection Volume: 1.0 µL
Injection Mode: 25:1
Temperature Program: 80 °C (Hold 2 min) @ 6 °C/min to 260 °C (Hold 5 min)
Detector: FID Temperature: 310 °C

Elution details:

EO	RT(MIN)	ANALYTE
1	7.095	Phenol
2	7.585	2-chlorophenol
3	10.925	2-nitrophenol
4	11.037	2,4-dimethylphenol
5	11.696	2,4-dichlorphenol
6	14.242	4-chloro-3-m3thylphenol
7	15.842	2,4,6-trichlorophenol
8	18.93	2,4-dinitrophenol
9	19.25	4-nitrophenol
10	21.05	4,6-dinitro-2-methylphenol
11	23.752	Pentachlorophenol

Metrological traceability: Traceable to the SI and higher order standards from NIST through an unbroken chain of comparisons. The balance used to weigh raw materials is accurate to +/-0.0001 g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.

Measurement method: Where applicable, the assigned value is based on a purity determination by mass balance and gravimetrically prepared value.

Intended use: Intended for R&D and Analytical Use only. Not for drug, household or other uses.

Packaging: 1 mL in amber ampule

Instructions for handling and correct use: Use on the as is basis. The internal pressure of the container may be slightly different from the atmospheric pressure at the user`s location. Open slowly and carefully to avoid dispersion of the material.

Health and safety information: All chemical reference materials should be considered potentially hazardous and should be used only by qualified laboratory personnel. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.

Accreditation: Sigma-Aldrich RTC is accredited by the US accreditation authority ANAB as a registered reference material producer AR-1470 in accordance with ISO 17034.

Certificate issue date: 12-Jul-2021

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

Andy Ommen - QC Manager

Mark Pooler - QA Supervisor

Details on metrological traceability: This standard has been gravimetrically prepared using balances that have been fully qualified and calibrated to ISO 17025 requirements. All calibrations utilize NIST traceable weights which are calibrated externally by a qualified ISO 17025 accredited calibration laboratory to NIST standards. Qualification of each balance includes the assignment of a minimum weighing by a qualified and ISO 17025 accredited calibration vendor taking into consideration the balance and installed environmental conditions to ensure compliance with USP tolerances of NMT 0.10% relative error. Fill volume to predetermined specifications is gravimetrically verified throughout the dispensing process using qualified and calibrated balances. Further traceability to a corresponding Primary Standard may be achieved through a direct comparison assay. Where a Primary Standard is available, the assay value will be included in the specified section of the COA.

Associated uncertainty: Ucrm - Uncertainty values in this document are expressed as Expanded Uncertainty (Ucrm) corresponding to the 95% confidence interval. Ucrm is derived from the combined standard uncertainty multiplied by the coverage factor k, which is obtained from a *t*-distribution and degrees of freedom. The components of combined standard uncertainty include the uncertainties due to characterization, homogeneity, long term stability, and short term stability (transport). The components due to stability are generally considered to be negligible unless otherwise indicated by stability studies. The mathematical representation of the Ucrm calculation is as follows:

$$u_{CRM} = \sqrt{u_{char}^2 + u_{hom\ ogeneity}^2 + u_{stability}^2}$$

Homogeneity assessment: Homogeneity was assessed in accordance with ISO Guide 35. Completed units were sampled using a random stratified sampling protocol. The results of chemical analysis were then compared by Single Factor Analysis of Variance (ANOVA). The uncertainty due to homogeneity was derived from the ANOVA. Heterogeneity was not detected under the conditions of the ANOVA.

Stability assessment: Significance of the stability assessment will be demonstrated if the analytical result of the study and the range of values represented by the Expanded Uncertainty do not overlap the result of the original assay and the range of its values represented by the Expanded Uncertainty. The method employed will usually be the same method used to characterize the assay value in the initial

Certificate of analysis revision history:

Certificate version	Date	Reason for version
LRAD0139.01	12-Jul-2021	Original Release Date

Disclaimer: The purchaser is required to determine the suitability of this product for any particular application. Sigma-Aldrich RTC makes no warranty of any kind, express or implied, other than its products meet all quality control standards set by Sigma-Aldrich RTC. We do not guarantee that the product can be used for any particular application.

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K007194
CLP 04.1 BNA SURR MIX
Solvent / Lot: AO187400
Prep: 8/5/2022 by VS
Exp: 4/30/2026
Location:

Certificate of Analysis

IAL

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31493 **Lot No.:** A0187400

Description : CLP 04.1 BNA Surrogate Mix

CLP 04.1 BNA Surrogate Mix 1000-1500 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2026 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2-Fluorophenol **CAS #** 367-12-4 (Lot STBJ3299) **Purity** 99%	1,508.0 µg/mL	+/- 8.9571 µg/mL +/- 44.0466 µg/mL +/- 53.4340 µg/mL	Gravimetric Unstressed Stressed
2	Phenol-d6 **CAS #** 13127-88-3 (Lot SL210831) **Purity** 99%	1,510.0 µg/mL	+/- 8.9689 µg/mL +/- 44.1050 µg/mL +/- 53.5049 µg/mL	Gravimetric Unstressed Stressed
3	2-Chlorophenol-d4 **CAS #** 93951-73-6 (Lot PR-30568) **Purity** 99%	1,512.0 µg/mL	+/- 8.9808 µg/mL +/- 44.1635 µg/mL +/- 53.5758 µg/mL	Gravimetric Unstressed Stressed
4	1,2-Dichlorobenzene-d4 **CAS #** 2199-69-1 (Lot PR-32597) **Purity** 99%	1,004.0 µg/mL	+/- 5.9635 µg/mL +/- 29.3255 µg/mL +/- 35.5754 µg/mL	Gravimetric Unstressed Stressed
5	Nitrobenzene-d5 **CAS #** 4165-60-0 (Lot PR-29940A) **Purity** 99%	1,004.0 µg/mL	+/- 5.9635 µg/mL +/- 29.3255 µg/mL +/- 35.5754 µg/mL	Gravimetric Unstressed Stressed
6	2-Fluorobiphenyl **CAS #** 321-60-8 (Lot 00021384) **Purity** 99%	1,004.0 µg/mL	+/- 5.9635 µg/mL +/- 29.3255 µg/mL +/- 35.5754 µg/mL	Gravimetric Unstressed Stressed
7	2,4,6-Tribromophenol **CAS #** 118-79-6 (Lot MKCJ7664) **Purity** 99%	1,502.0 µg/mL	+/- 8.9214 µg/mL +/- 43.8714 µg/mL +/- 53.2214 µg/mL	Gravimetric Unstressed Stressed

8	p-Terphenyl-d14		1,002.0	µg/mL	+/-	5.9516	µg/mL	Gravimetric
	CAS # 1718-51-0	(Lot PR-30504)			+/-	29.2671	µg/mL	Unstressed
	Purity 99%				+/-	35.5046	µg/mL	Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

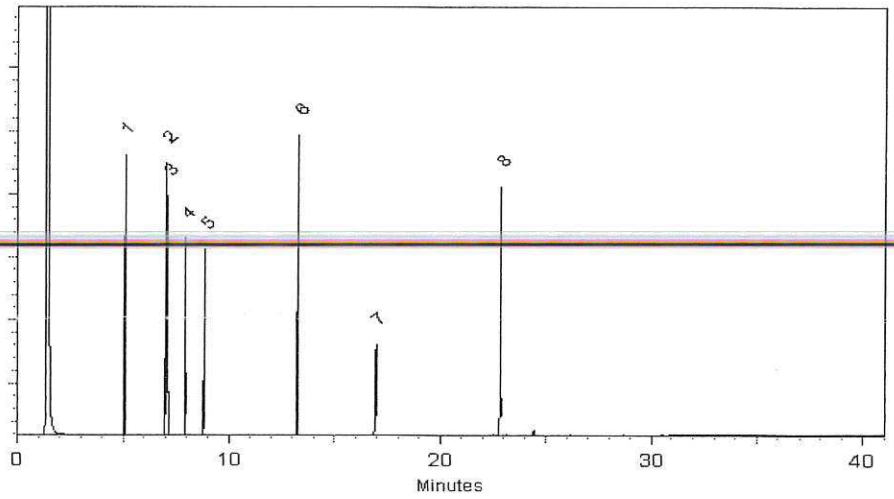
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Bryan Snyder - Operations Tech I

Date Mixed: 17-Jul-2022 **Balance:** 1128353505

Christie Mills - Operations Tech II - ARM QC

Date Passed: 21-Jul-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Certificate of Analysis

Produced by Phenova
6390 Joyce Drive STE 100, Golden, CO 80403 USA ■ Tel: 303-940-0033 ■ Fax: 303-940-0043 ■ info@phenova.com
Access your Safety Data Sheets and digital Certificates at **www.phenova.com/documents.**

Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101444
Description: 8270 Calibration Standard
Storage: -18 °C
Provided As: 1 mL in 2 mL Ampoule in MeCl2/Methanol (97:3)

Lot Number: CL18355
Certification Date: July 25, 2022
Expiration Date: August 31, 2023

K007995
SVOA-8270 LCS MIX 1000ug/ml
Solvent / Lot: N/A
Prep: 8/29/2022 by JZ
Exp: 8/31/2023
Location: FREEZER 44

Aaron Dukes, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Acenaphthene	83-32-9	1000	± 0.300%
Acenaphthylene	208-96-8	1000	± 0.225%
Anthracene	120-12-7	1000	± 6.858%
Azobenzene	103-33-3	1000	± 0.224%
Benzo(a)anthracene	56-55-3	1000	± 0.247%
Benzo(a)pyrene	50-32-8	1000	± 0.270%
Benzo(b)fluoranthene	205-99-2	1000	± 0.635%
Benzo(k)fluoranthene	207-08-9	1000	± 0.682%
Benzo(g,h,i)perylene	191-24-2	1000	± 0.272%
Benzyl alcohol	100-51-6	1000	± 0.231%
Benzyl butyl phthalate	85-68-7	1000	± 0.480%
bis(2-Chloroethoxy)methane	111-91-1	1000	± 0.479%
bis(2-Chloroethyl) ether	111-44-4	1000	± 0.479%
bis(2-Chloroisopropyl) ether	108-60-1	1000	± 0.550%
bis(2-Ethylhexyl) adipate	103-23-1	1000	± 0.479%
bis(2-Ethylhexyl) phthalate	117-81-7	1000	± 0.479%
4-Bromophenyl phenyl ether	101-55-3	1000	± 0.479%
Carbazole	86-74-8	1000	± 0.146%

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101444
Lot Number: CL18355
Description: 8270 Calibration Standard
Certification Date: July 25, 2022
Storage: -18 °C
Expiration Date: August 31, 2023
Provided As: 1 mL in 2 mL Ampoule in MeCl2/Methanol (97:3)

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
4-Chloroaniline	106-47-8	1000	± 0.300%
4-Chloro-3-methylphenol	59-50-7	1000	± 0.545%
2-Chloronaphthalene	91-58-7	1000	± 0.224%
2-Chlorophenol	95-57-8	1000	± 0.507%
4-Chlorophenyl phenyl ether	7005-72-3	1000	± 0.479%
Chrysene	218-01-9	1000	± 0.145%
Dibenz(a,h)anthracene	53-70-3	1000	± 1.058%
Dibenzofuran	132-64-9	1000	± 0.302%
Di-n-butyl phthalate	84-74-2	1000	± 0.518%
1,2-Dichlorobenzene	95-50-1	1000	± 0.247%
1,3-Dichlorobenzene	541-73-1	1000	± 0.225%
1,4-Dichlorobenzene	106-46-7	1000	± 0.224%
2,4-Dichlorophenol	120-83-2	1000	± 0.545%
Diethyl phthalate	84-66-2	1000	± 0.518%
2,4-Dimethylphenol	105-67-9	1000	± 0.507%
Dimethyl phthalate	131-11-3	1000	± 0.518%
1,2-Dinitrobenzene	528-29-0	1000	± 0.361%
1,3-Dinitrobenzene	99-65-0	1000	± 0.300%
1,4-Dinitrobenzene	100-25-4	1000	± 0.242%
2,4-Dinitrophenol	51-28-5	1000	± 0.545%
2,4-Dinitrotoluene	121-14-2	1000	± 1.128%

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101444
Lot Number: CL18355
Description: 8270 Calibration Standard
Certification Date: July 25, 2022
Storage: -18 °C
Expiration Date: August 31, 2023
Provided As: 1 mL in 2 mL Ampoule in MeCl2/Methanol (97:3)

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
2,6-Dinitrotoluene	606-20-2	1000	± 0.224%
Di-n-octyl phthalate	117-84-0	1000	± 0.486%
Fluoranthene	206-44-0	1000	± 0.224%
Fluorene	86-73-7	1000	± 0.224%
Hexachlorobenzene	118-74-1	1000	± 0.152%
Hexachlorobutadiene	87-68-3	1000	± 0.746%
Hexachlorocyclopentadiene	77-47-4	1000	± 0.153%
Hexachloroethane	67-72-1	1000	± 0.300%
Indeno(1,2,3-cd)pyrene	193-39-5	1000	± 0.883%
Isophorone	78-59-1	1000	± 0.145%
2-Methyl-4,6-dinitrophenol	534-52-1	1000	± 0.508%
1-Methylnaphthalene	90-12-0	1000	± 0.479%
2-Methylnaphthalene	91-57-6	1000	± 0.487%
2-Methylphenol	95-48-7	1000	± 0.545%
3-Methylphenol	108-39-4	500	± 0.279%
4-Methylphenol	106-44-5	500	± 0.399%
Naphthalene	91-20-3	1000	± 0.226%
2-Nitroaniline	88-74-4	1000	± 0.224%
3-Nitroaniline	99-09-2	1000	± 0.235%
4-Nitroaniline	100-01-6	1000	± 0.300%
Nitrobenzene	98-95-3	1000	± 0.300%

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101444
Lot Number: CL18355
Description: 8270 Calibration Standard
Certification Date: July 25, 2022
Storage: -18 °C
Expiration Date: August 31, 2023
Provided As: 1 mL in 2 mL Ampoule in MeCl2/Methanol (97:3)

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
2-Nitrophenol	88-75-5	1000	± 0.514%
4-Nitrophenol	100-02-7	1000	± 0.519%
N-Nitrosodimethylamine	62-75-9	1000	± 0.503%
N-Nitrosodiphenylamine	86-30-6	1000	± 0.476%
N-Nitrosodi-n-propylamine	621-64-7	1000	± 0.461%
Pentachlorophenol	87-86-5	1000	± 0.202%
Phenanthrene	85-01-8	1000	± 0.145%
Phenol	108-95-2	1000	± 0.545%
Pyrene	129-00-0	1000	± 0.147%
Pyridine	110-86-1	1000	± 0.503%
2,3,4,6-Tetrachlorophenol	58-90-2	1000	± 0.247%
2,3,5,6-Tetrachlorophenol	935-95-5	1000	± 0.247%
1,2,4-Trichlorobenzene	120-82-1	1000	± 0.224%
2,4,5-Trichlorophenol	95-95-4	1000	± 0.507%
2,4,6-Trichlorophenol	88-06-2	1000	± 0.509%

Notes: The proper chemical name for Bis(2-Chloroiospropyl) ether is 2,2'-oxybis(1-chloropropane). The analytical uncertainty contribution to the expanded uncertainty for 3 and 4-Methylphenol is measured as the total of the two analytes. N-Nitrosodiphenylamine presents as Diphenylamine at 854 µg/mL.

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1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31[1] and ISO Guide 35.[2]

2. Quality Standards: Phenova is accredited by A2LA to ISO 17034[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.

4. Handling and Usage Notes: Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

   Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.

12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

[1] ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
[3] ISO 17034 – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

Certificate of Composition - Analytical Standard

BASE STOCK

Product no.: 22523051
Lot no.: LRAD2751
Expiry Date: June 2024
Manufacturing Date: June 2022
Storage: REFRIGERATE
Solvent/Matrix: DICHLOROMETHANE
Certificate version: LRAD2751.01 (*Note: Certificates may be updated due to the availability of new data. Check our website at: www.sigma-aldrich.com for the most current version.)*

Analyte	*Assigned Value*	*Units*	*Raw Material Purity,%*	*Raw Material Lot*
3,3'-DICHLOROBENZIDINE, 100MG, NEAT CAS# 91-94-1	799	µg/mL	99.8	LRAD2376
2,4-DINITROTOLUENE CAS# 121-14-2	801	µg/mL	97.8	LB46632
2,6-DINITROTOLUENE CAS# 606-20-2	800	µg/mL	99.2	11231AN
HEXACHLOROCYCLOPENTADIENE CAS# 77-47-4	800	µg/mL	96.0	LB95525
N-NITROSODIMETHYLAMINE CAS# 62-75-9	800	µg/mL	95.0	2019-030598 5
PERYLENE CAS# 198-55-0	200	µg/mL	99.6	04101PG
ANILINE CAS# 62-53-3	800	µg/mL	99.9	LA41596
4-CHLOROANILINE CAS# 106-47-8	800	µg/mL	100.0	MKBZ6909V
2-NITROANILINE CAS# 88-74-4	799	µg/mL	99.9	07411KN
3-NITROANILINE CAS# 99-09-2	800	µg/mL	99.9	LC09264
4-NITROANILINE CAS# 100-01-6	800	µg/mL	99.9	15609AA
PYRIDINE (LOW WATER) CAS# 110-86-1	800	µg/mL	100.0	SHBJ9218

Measurement method: Where applicable, the assigned value is based on a purity determination by mass balance and gravimetrically prepared value.

Intended use: Intended for R&D and Analytical Use only. Not for drug, household or other uses.

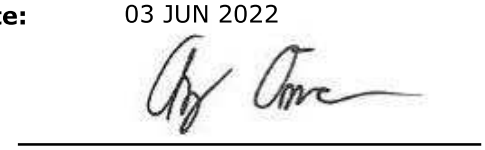
Packaging: 1 mL in amber ampule

Instructions for handling and correct use: Use on the as is basis. The internal pressure of the container may be slightly different from the atmospheric pressure at the user`s location. Open slowly and carefully to avoid dispersion of the material.

Sigma-Aldrich RTC, 2931 Soldier Springs Rd. Laramie, WY 82070, USA;
Tel. 1 307-742-5452; Fax 1 855-831-9211; www.sigmaaldrich.com
Sigma-Aldrich RTC is a subsidiary of Merck KGaA, Darmstadt, Germany.

Health and safety information: All chemical reference materials should be considered potentially hazardous and should be used only by qualified laboratory personnel. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.

Certificate issue date: 03 JUN 2022



Andy Ommen - QC Manager

Scott Stetler - QA Manager

Certificate of analysis revision history:

Certificate version	Date	Reason for version
LRAD2751.01	03 JUN 2022	Original Release Date

Disclaimer: The purchaser is required to determine the suitability of this product for any particular application. Sigma-Aldrich RTC makes no warranty of any kind, express or implied, other than its products meet all quality control standards set by Sigma-Aldrich RTC. We do not guarantee that the product can be used for any particular application.

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Certificate of Composition - Analytical Standard

ACID STOCK

Product no.: 22523046
Lot no.: LRAD2750
Expiry Date: June 2024
Manufacturing Date: June 2022
Storage: REFRIGERATE
Solvent/Matrix: DICHLOROMETHANE
Certificate version: LRAD2750.01 (*Note: Certificates may be updated due to the availability of new data. Check our website at: www.sigma-aldrich.com for the most current version.)*

Analyte	*Assigned Value*	*Units*	*Raw Material Purity,%*	*Raw Material Lot*
2,4-DIMETHYLPHENOL CAS# 105-67-9	800	µg/mL	99.9	LB88935
2,4-DICHLOROPHENOL CAS# 120-83-2	800	µg/mL	100.0	BCBZ6787
2,4,5-TRICHLOROPHENOL CAS# 95-95-4	801	µg/mL	99.9	JS00008
2,4-DINITROPHENOL CAS# 51-28-5	1799	µg/mL	66.9	STBJ5751
2,4,6-TRICHLOROPHENOL CAS# 88-06-2	800	µg/mL	98.7	LB82983
4-CHLORO-3-METHYLPHENOL CAS# 59-50-7	800	µg/mL	100.0	BCCD4461
4-NITROPHENOL CAS# 100-02-7	800	µg/mL	100.0	MKCN1089
2-METHYL-4,6-DINITROPHENOL CAS# 534-52-1	1800	µg/mL	100.0	BCBX5762
PENTACHLOROPHENOL CAS# 87-86-5	800	µg/mL	99.0	23614-01
BENZOIC ACID CAS# 65-85-0	1800	µg/mL	99.9	LC16514

Measurement method: Where applicable, the assigned value is based on a purity determination by mass balance and gravimetrically prepared value.

Intended use: Intended for R&D and Analytical Use only. Not for drug, household or other uses.

Packaging: 1 mL in amber ampule

Instructions for handling and correct use: Use on the as is basis. The internal pressure of the container may be slightly different from the atmospheric pressure at the user`s location. Open slowly and carefully to avoid dispersion of the material.

Health and safety information: All chemical reference materials should be considered potentially hazardous and should be used only by qualified laboratory personnel. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.

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Tel. 1 307-742-5452; Fax 1 855-831-9211; www.sigmaaldrich.com
Sigma-Aldrich RTC is a subsidiary of Merck KGaA, Darmstadt, Germany.

Certificate issue date: 03 JUN 2022

Andy Ommen - QC Manager

Scott Stetler - QA Manager

Certificate of analysis revision history:

Certificate version	Date	Reason for version
LRAD2750.01	03 JUN 2022	Original Release Date

Disclaimer: The purchaser is required to determine the suitability of this product for any particular application. Sigma-Aldrich RTC makes no warranty of any kind, express or implied, other than its products meet all quality control standards set by Sigma-Aldrich RTC. We do not guarantee that the product can be used for any particular application.

Certificate of Analysis

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101244
Description: Benzidines Standard
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Methylene Chloride

Lot Number: CL18939
Certification Date: September 7, 2022
Expiration Date: August 31, 2032

Aaron Dukes, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Benzidine	92-87-5	2000	± 3.812%
3,3'-Dichlorobenzidine	91-94-1	2000	± 1.419%

L001288
Benzidines std @2000ug/ml
Solvent / Lot: CL18939
Prep: 2/7/2023 by VS
Exp: 8/31/2032
Location: GC

ACCREDITED
Reference Material Producer
Certicate No. 2427.02

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Phenova is an accredited ISO/IEC 17034 Reference Material Producer and ISO/IEC 17025 accredited Chemical Testing Laboratory.

ACCREDITED
Chemical Testing Laboratory
Certicate No. 2427.03

IL64631018 us

Certificate of Analysis

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101443
Lot Number: CL18741
Description: Aniline
Certification Date: July 21, 2022
Storage: 4 °C
Expiration Date: July 31, 2030
Provided As: 1 mL in 2 mL Ampoule in Methylene Chloride

Aaron Dukes, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aniline	62-53-3	1000	± 1.719%

L001290
Anline-1000ug/mL
Solvent / Lot: CL18741
Prep: 2/7/2023 by VS
Exp: 7/31/2030
Location: GC

ACCREDITED
Reference Material Producer
Certicate No. 2427.02

phenova Certified Reference Materials | A Phenomenex Company

Phenova is an accredited ISO/IEC 17034 Reference Material Producer and ISO/IEC 17025 accredited Chemical Testing Laboratory.

ACCREDITED
Chemical Testing Laboratory
Certicate No. 2427.03

II.6459.1018.US

Certificate of Analysis

phenova Certified Reference Materials | A Phenomenex Company

Produced by Phenova
6390 Joyce Drive STE 100, Golden, CO 80403 USA ▪ Tel: 303-940-0033 ▪ Fax: 303-940-0043 ▪ info@phenova.com
Access your Safety Data Sheets and digital Certificates at **www.phenova.com/documents.**

Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101444
Description: 8270 Calibration Standard
Storage: -18 °C
Provided As: 1 mL in 2 mL Ampoule in MeCl2/Methanol (97:3)

Lot Number: CL18811
Certification Date: August 9, 2022
Expiration Date: November 30, 2023

Aaron Dukes, Certified Reference Materials Manager

L001291
SVOA-8270 LCS MIX 1000ug/ml
Solvent / Lot: CL18811
Prep: 2/7/2023 by VS
Exp: 11/30/2023
Location: FREEZER 44

Component	CAS #	µg/mL	Expanded Uncertainty
Acenaphthene	83-32-9	1000	± 1.643%
Acenaphthylene	208-96-8	1000	± 1.317%
Anthracene	120-12-7	1000	± 2.136%
Azobenzene	103-33-3	1000	± 1.630%
Benzo(a)anthracene	56-55-3	1000	± 2.372%
Benzo(a)pyrene	50-32-8	1000	± 3.028%
Benzo(b)fluoranthene	205-99-2	1000	± 2.377%
Benzo(k)fluoranthene	207-08-9	1000	± 2.286%
Benzo(g,h,i)perylene	191-24-2	1000	± 2.561%
Benzyl alcohol	100-51-6	1000	± 1.803%
Benzyl butyl phthalate	85-68-7	1000	± 1.855%
bis(2-Chloroethoxy)methane	111-91-1	1000	± 1.626%
bis(2-Chloroethyl) ether	111-44-4	1000	± 1.776%
bis(2-Chloroisopropyl) ether	108-60-1	1000	± 2.406%
bis(2-Ethylhexyl) adipate	103-23-1	1000	± 2.415%
bis(2-Ethylhexyl) phthalate	117-81-7	1000	± 2.350%
4-Bromophenyl phenyl ether	101-55-3	1000	± 1.708%
Carbazole	86-74-8	1000	± 1.844%

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Certification Date: August 9, 2022
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Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
4-Chloroaniline	106-47-8	1000	± 2.831%
4-Chloro-3-methylphenol	59-50-7	1000	± 1.571%
2-Chloronaphthalene	91-58-7	1000	± 2.022%
2-Chlorophenol	95-57-8	1000	± 2.001%
4-Chlorophenyl phenyl ether	7005-72-3	1000	± 1.634%
Chrysene	218-01-9	1000	± 2.358%
Dibenz(a,h)anthracene	53-70-3	1000	± 2.452%
Dibenzofuran	132-64-9	1000	± 0.310%
Di-n-butyl phthalate	84-74-2	1000	± 2.347%
1,2-Dichlorobenzene	95-50-1	1000	± 1.803%
1,3-Dichlorobenzene	541-73-1	1000	± 1.808%
1,4-Dichlorobenzene	106-46-7	1000	± 1.503%
2,4-Dichlorophenol	120-83-2	1000	± 1.393%
Diethyl phthalate	84-66-2	1000	± 1.870%
2,4-Dimethylphenol	105-67-9	1000	± 2.495%
Dimethyl phthalate	131-11-3	1000	± 2.113%
1,2-Dinitrobenzene	528-29-0	1000	± 0.240%
1,3-Dinitrobenzene	99-65-0	1000	± 1.221%
1,4-Dinitrobenzene	100-25-4	1000	± 0.246%
2,4-Dinitrophenol	51-28-5	1000	± 0.519%
2,4-Dinitrotoluene	121-14-2	1000	± 2.242%

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101444
Lot Number: CL18811
Description: 8270 Calibration Standard
Certification Date: August 9, 2022
Storage: -18 °C
Expiration Date: November 30, 2023
Provided As: 1 mL in 2 mL Ampoule in MeCl2/Methanol (97:3)

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
2,6-Dinitrotoluene	606-20-2	1000	± 2.154%
Di-n-octyl phthalate	117-84-0	1000	± 2.670%
Fluoranthene	206-44-0	1000	± 2.103%
Fluorene	86-73-7	1000	± 0.890%
Hexachlorobenzene	118-74-1	1000	± 1.210%
Hexachlorobutadiene	87-68-3	1000	± 1.304%
Hexachlorocyclopentadiene	77-47-4	1000	± 1.510%
Hexachloroethane	67-72-1	1000	± 3.281%
Indeno(1,2,3-cd)pyrene	193-39-5	1000	± 1.921%
Isophorone	78-59-1	1000	± 2.022%
2-Methyl-4,6-dinitrophenol	534-52-1	1000	± 1.661%
1-Methylnaphthalene	90-12-0	1000	± 1.929%
2-Methylnaphthalene	91-57-6	1000	± 2.220%
2-Methylphenol	95-48-7	1000	± 2.168%
3-Methylphenol	108-39-4	500	± 1.025%
4-Methylphenol	106-44-5	500	± 1.064%
Naphthalene	91-20-3	1000	± 1.199%
2-Nitroaniline	88-74-4	1000	± 1.874%
3-Nitroaniline	99-09-2	1000	± 2.146%
4-Nitroaniline	100-01-6	1000	± 0.300%
Nitrobenzene	98-95-3	1000	± 1.704%

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Description: 8270 Calibration Standard
Storage: -18 °C
Provided As: 1 mL in 2 mL Ampoule in MeCl2/Methanol (97:3)

Lot Number: CL18811
Certification Date: August 9, 2022
Expiration Date: November 30, 2023

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
2-Nitrophenol	88-75-5	1000	± 2.051%
4-Nitrophenol	100-02-7	1000	± 1.413%
N-Nitrosodimethylamine	62-75-9	1000	± 0.545%
N-Nitrosodiphenylamine	86-30-6	1000	± 1.669%
N-Nitrosodi-n-propylamine	621-64-7	1000	± 0.712%
Pentachlorophenol	87-86-5	1000	± 2.454%
Phenanthrene	85-01-8	1000	± 2.072%
Phenol	108-95-2	1000	± 2.140%
Pyrene	129-00-0	1000	± 1.869%
Pyridine	110-86-1	1000	± 0.545%
2,3,4,6-Tetrachlorophenol	58-90-2	1000	± 2.552%
2,3,5,6-Tetrachlorophenol	935-95-5	1000	± 2.220%
1,2,4-Trichlorobenzene	120-82-1	1000	± 1.632%
2,4,5-Trichlorophenol	95-95-4	1000	± 1.596%
2,4,6-Trichlorophenol	88-06-2	1000	± 0.481%

Notes: The proper chemical name for Bis(2-Chloroiospropyl) ether is 2,2'-oxybis(1-chloropropane). The analytical uncertainty contribution to the expanded uncertainty for 3 and 4-Methylphenol is measured as the total of the two analytes. N-Nitrosodiphenylamine presents as Diphenylamine at 854 µg/mL.

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1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31[1] and ISO Guide 35.[2]

2. Quality Standards: Phenova is accredited by A2LA to ISO 17034[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.

4. Handling and Usage Notes: Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.

12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

[1] ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
[3] ISO 17034 – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW23-SS1000

ORGANIC ANALYSIS DATA SHEET
EPA 8081B

Laboratory:	Analytical Resources, LLC			SDG:	23C0071
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Solid	Laboratory ID:	23C0071-01 A	File ID:	23032442.D
Sampled:	03/02/23 09:33	Prepared:	03/06/23 13:27	Analyzed:	03/25/23 04:11
% Solids:	46.24	Preparation:	EPA 3546 (Microwave)	Initial/Final:	27.1 g Wet / 2.5 mL
Batch:	BLC0107	Sequence:	SLC0442	Calibration:	FL00041
Instrument:	ECD6	Column 1:	STX-CLP	Column 2:	STX-CLPII

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
118-74-1	Hexachlorobenzene	2	1	0.50	0.14	0.50	U

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9802*	*7.12*	*89.2*	*30 - 160*	
Decachlorobiphenyl	*2*	*7.9802*	*7.21*	*90.4*	*30 - 160*	
Tetrachlorometaxylene	*1*	*7.9802*	*5.79*	*72.5*	*30 - 160*	
Tetrachlorometaxylene	*2*	*7.9802*	*5.48*	*68.7*	*30 - 160*	

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230324.b/23032442.D
Data file 2: /20230324.b/B20230324.b/23032442.D
Method: \20230324.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: 23C0071-01
Client ID:
Injection Date: 25-MAR-2023 04:11
Report Date: 03/28/2023 10:51
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP on col	CLP2 on col	RPD	Compound/Flag	
RT	Shift	Response	RT	Shift	Response					
----			----			0.00	0.00	---	alpha-BHC	
----			----			0.00	0.00	---	beta-BHC	
----			----			0.00	0.00	---	delta-BHC	
----			----			0.00	0.00	---	gamma-BHC (Lindane)	
----			----			0.00	0.00	---	Heptachlor	
----			----			0.00	0.00	---	Aldrin	
----			----			0.00	0.00	---	Heptachlor epoxide b	
----			----			0.00	0.00	---	Endosulfan I	
----			----			0.00	0.00	---	Dieldrin	
----			----			0.00	0.00	---	4,4'-DDE	
----			----			0.00	0.00	---	Endrin	
----			----			0.00	0.00	---	Endosulfan II	
----			----			0.00	0.00	---	4,4'-DDD	
----			----			0.00	0.00	---	Endosulfan sulfate	
----			----			0.00	0.00	---	4,4'-DDT	
----			----			0.00	0.00	---	Methoxychlor	
----			----			0.00	0.00	---	Endrin ketone	
----			----			0.00	0.00	---	Endrin aldehyde	
----			----			0.00	0.00	---	trans-Chlordane	
----			----			0.00	0.00	---	cis-Chlordane	
----			----			0.00	0.00	---	Hexachlorobutadiene	
4.203	-0.014	19496	----			1.02	0.00	---	Hexachlorobenzene	
3.846	-0.012	420664	4.166	-0.013	557959	29.01	27.47	5.5	Tetrachloro-m-xylene	M
9.408	-0.007	279411	10.360	-0.013	331180	35.70	36.16	1.3	Decachlorobiphenyl	

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

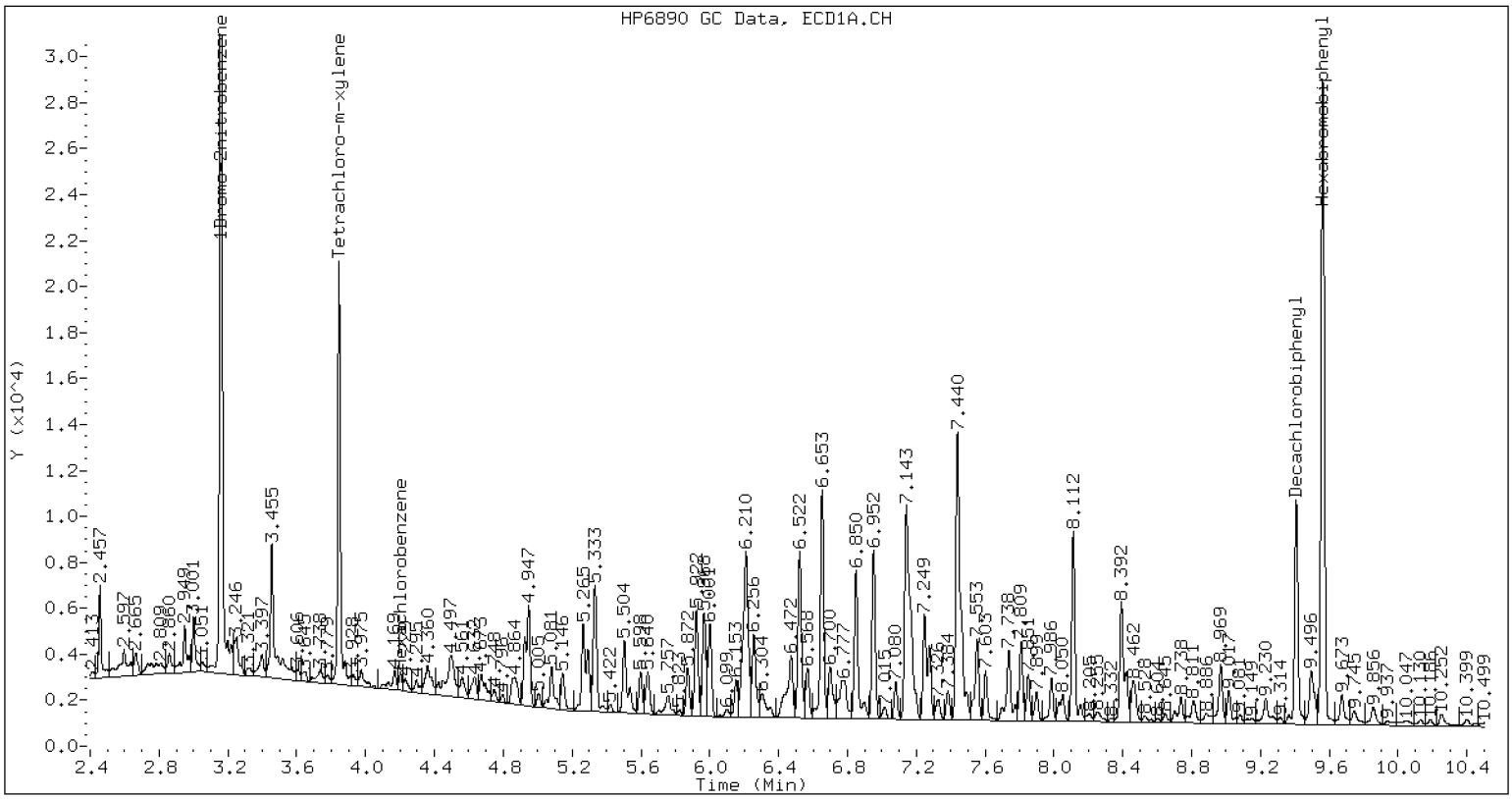
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	672426	1066185	58.6
Hexabromobiphenyl	609723	772476	26.7

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1006482	1443182	43.4
Hexabromobiphenyl	769764	828579	7.6

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

/20230324.b/23032442.D 23C0071-01 STX-CLP 25-MAR-2023 04:11 1ul



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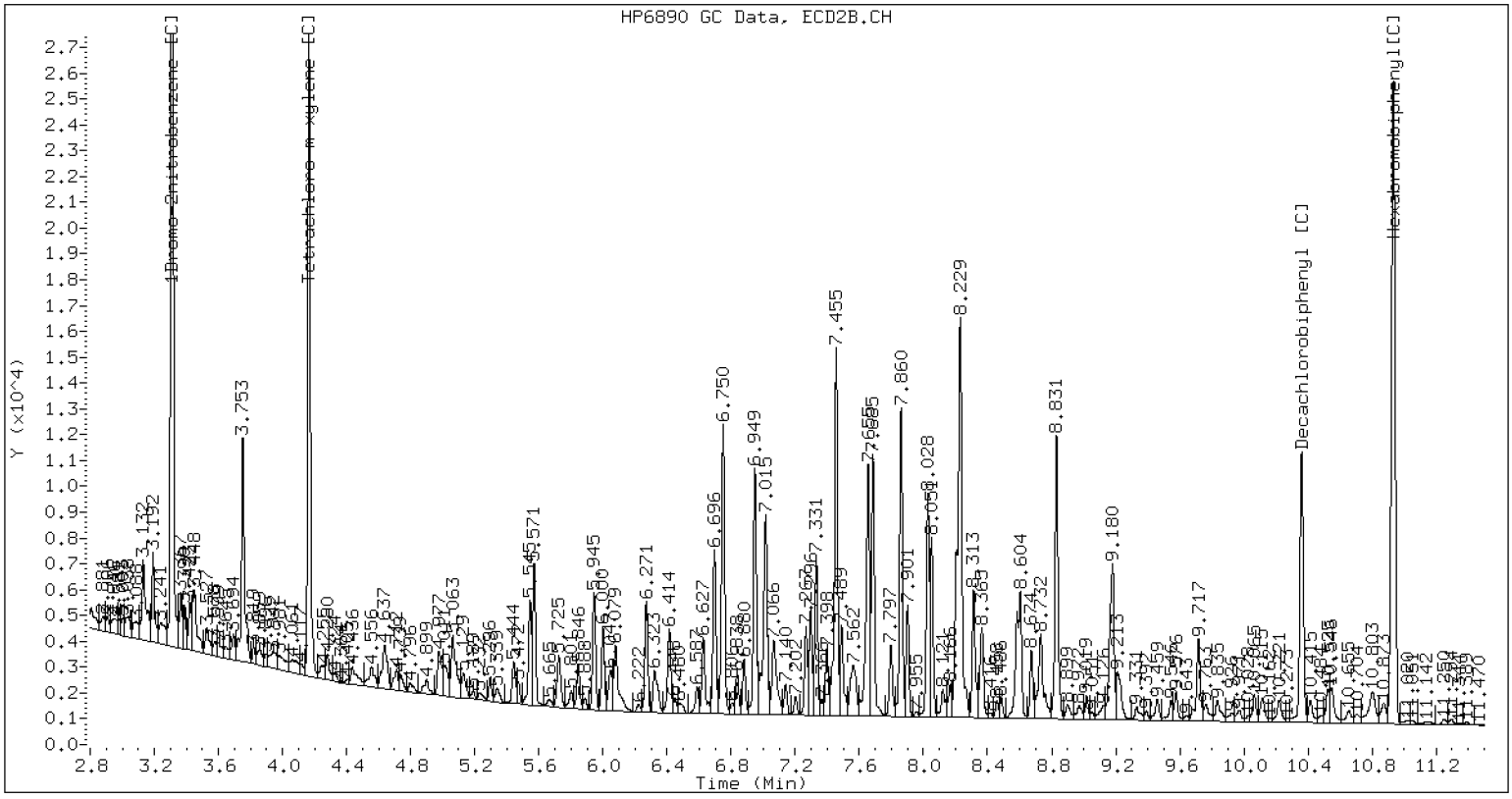
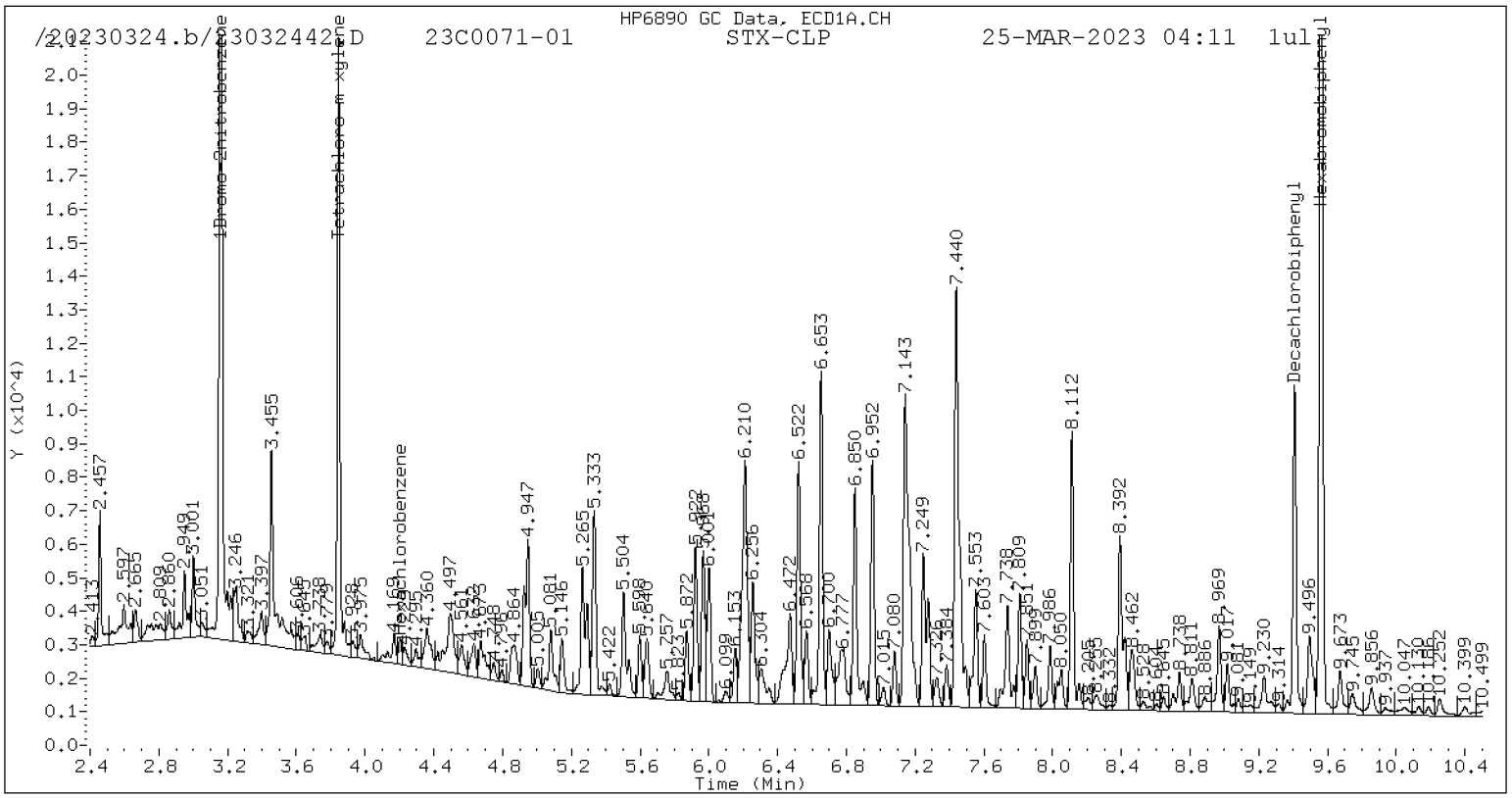
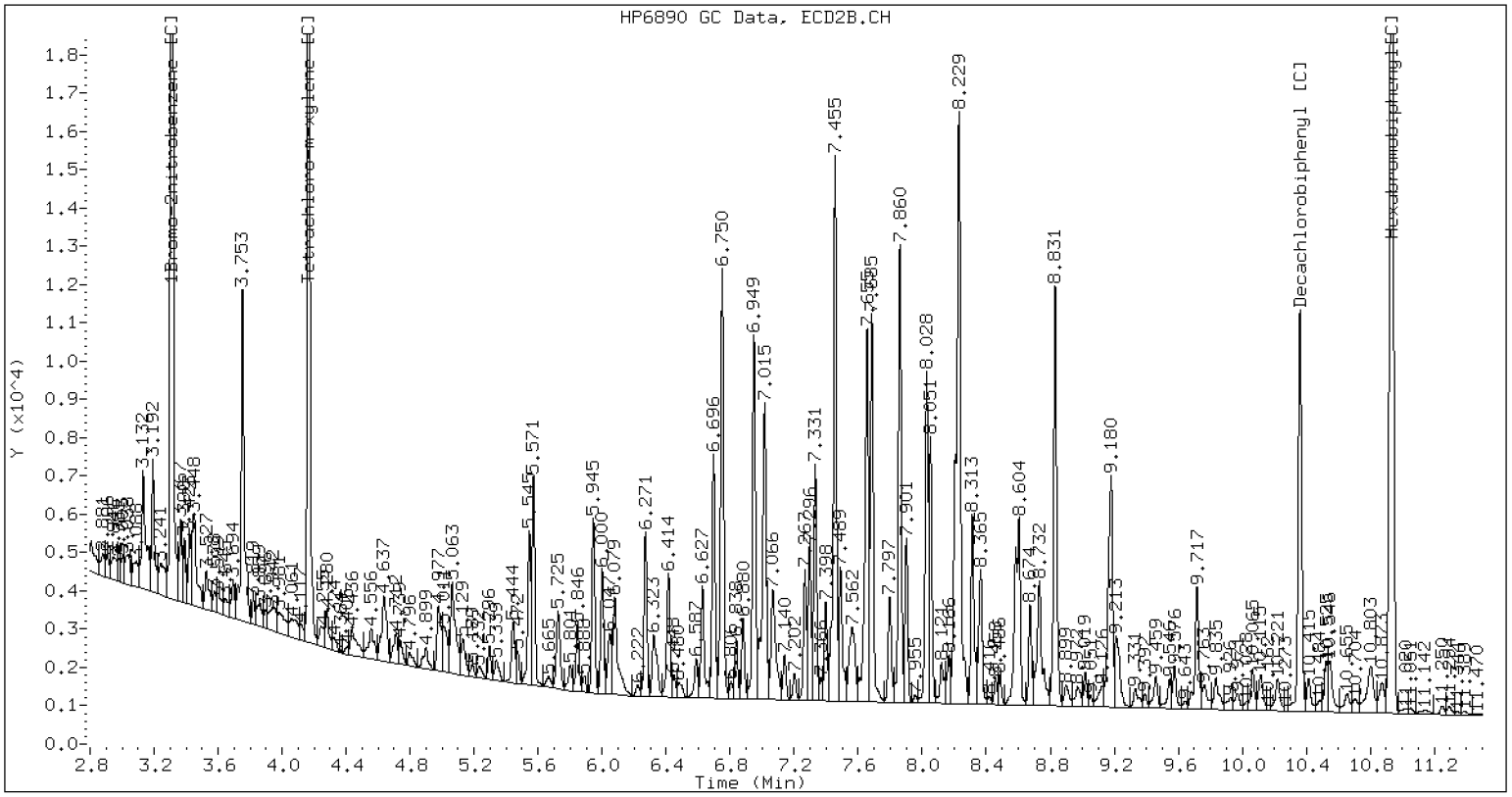


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: YES

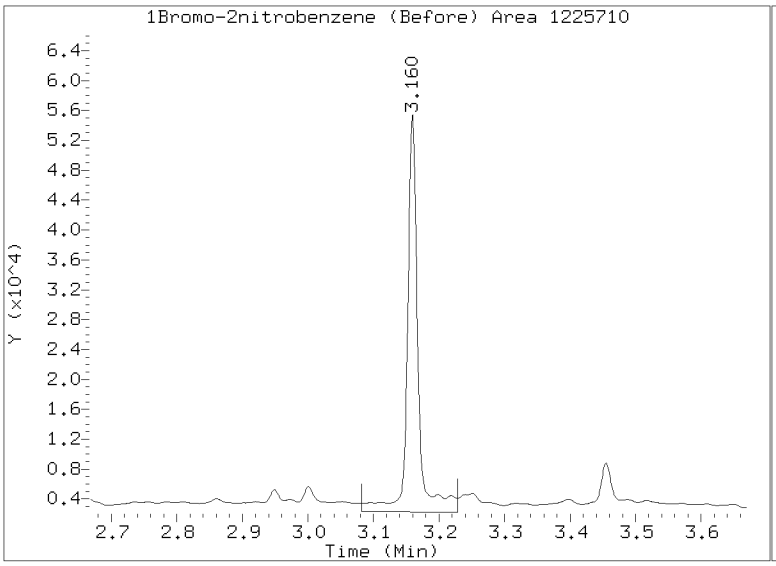
/20230324.b/B20230324.b/23032442.D 23C0071-01 CLP2

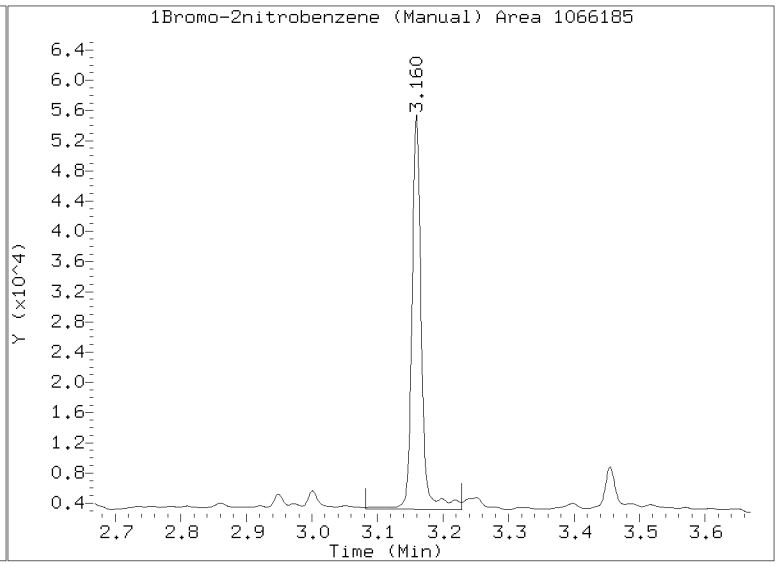


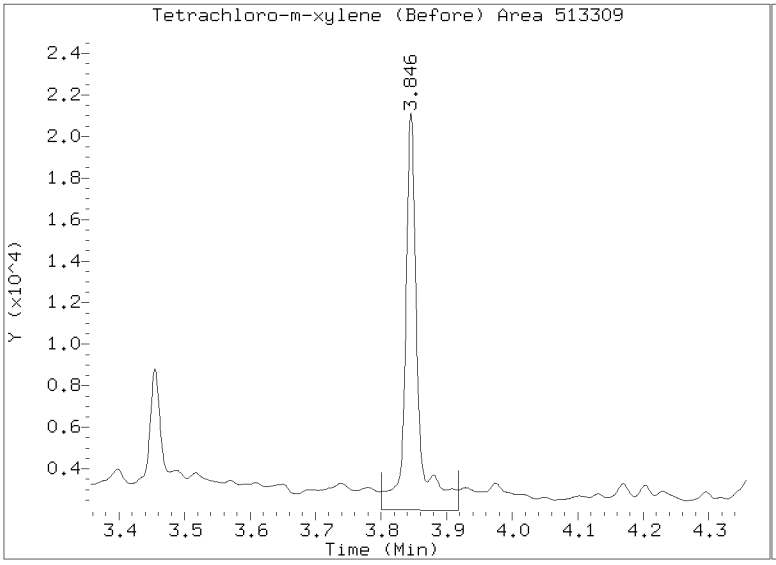
CLP-2 Manual Integration: NO

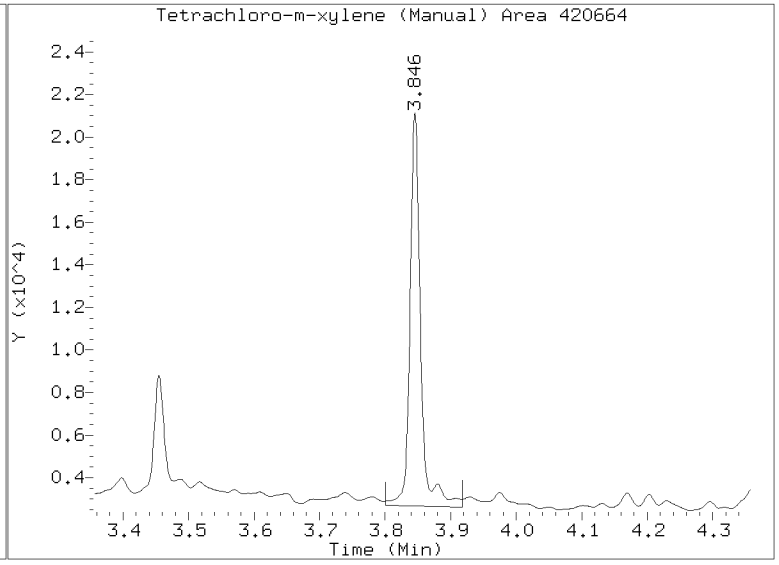
Manual Peak Adjustment Report, STX-CLP

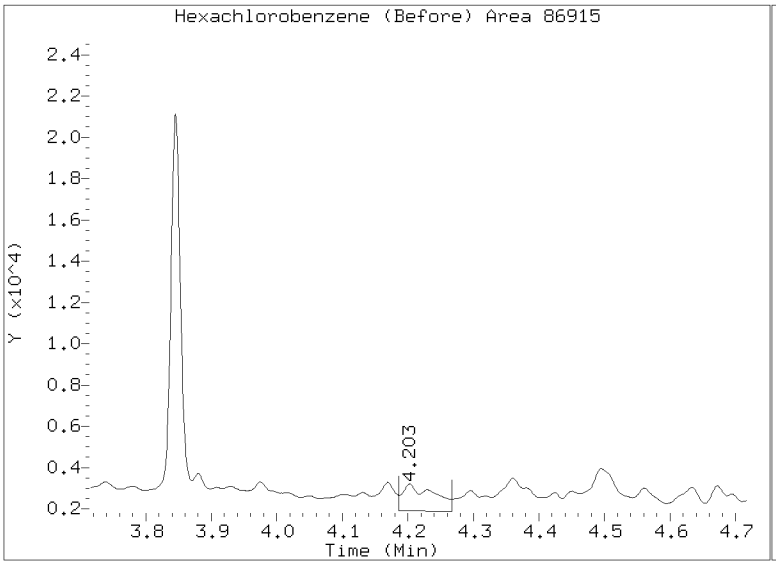
Datafile: /20230324.b/23032442.D
Injection Date: 25-MAR-2023 04:11
Lab ID:23C0071-01 Client ID:
Report Date: 03/28/2023 10:51

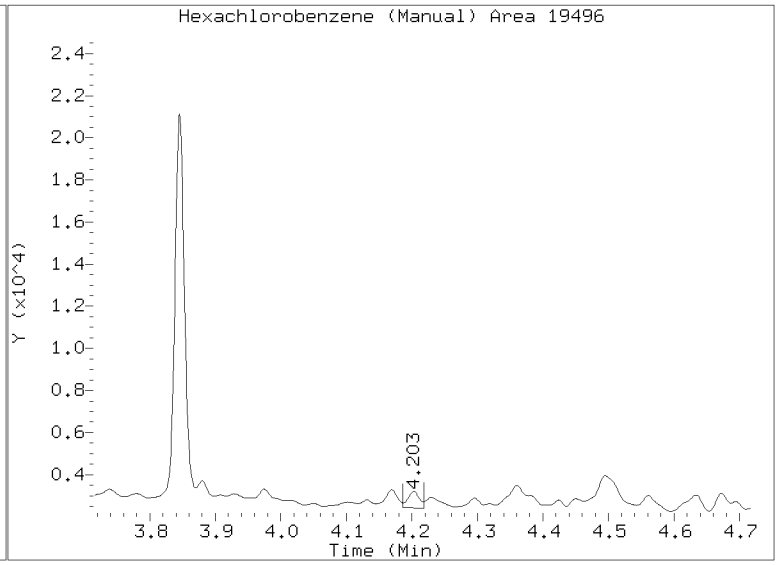












Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW23-SS1037

ORGANIC ANALYSIS DATA SHEET
EPA 8081B

Laboratory:	Analytical Resources, LLC			SDG:	23C0071
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Solid	Laboratory ID:	23C0071-02 A	File ID:	23032443.D
Sampled:	03/02/23 09:56	Prepared:	03/06/23 13:27	Analyzed:	03/25/23 04:29
% Solids:	50.76	Preparation:	EPA 3546 (Microwave)	Initial/Final:	24.67 g Wet / 2.5 mL
Batch:	BLC0107	Sequence:	SLC0442	Calibration:	FL00041
Instrument:	ECD6	Column 1:	STX-CLP	Column 2:	STX-CLPII

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
118-74-1	Hexachlorobenzene	2	1	0.50	0.14	0.50	U

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9856*	*7.45*	*93.2*	*30 - 160*	
Decachlorobiphenyl	*2*	*7.9856*	*6.86*	*85.9*	*30 - 160*	
Tetrachlorometaxylene	*1*	*7.9856*	*5.88*	*73.7*	*30 - 160*	
Tetrachlorometaxylene	*2*	*7.9856*	*5.86*	*73.4*	*30 - 160*	

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230324.b/23032443.D
Data file 2: /20230324.b/B20230324.b/23032443.D
Method: \20230324.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: 23C0071-02
Client ID:
Injection Date: 25-MAR-2023 04:29
Report Date: 03/28/2023 10:51
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP on col	CLP2 on col	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response				
----			----			0.00	0.00	---	alpha-BHC
----			----			0.00	0.00	---	beta-BHC
----			----			0.00	0.00	---	delta-BHC
----			----			0.00	0.00	---	gamma-BHC (Lindane)
----			----			0.00	0.00	---	Heptachlor
----			----			0.00	0.00	---	Aldrin
----			----			0.00	0.00	---	Heptachlor epoxide b
----			----			0.00	0.00	---	Endosulfan I
----			----			0.00	0.00	---	Dieldrin
----			----			0.00	0.00	---	4,4'-DDE
----			----			0.00	0.00	---	Endrin
----			----			0.00	0.00	---	Endosulfan II
----			----			0.00	0.00	---	4,4'-DDD
----			----			0.00	0.00	---	Endosulfan sulfate
----			----			0.00	0.00	---	4,4'-DDT
----			----			0.00	0.00	---	Methoxychlor
----			----			0.00	0.00	---	Endrin ketone
----			----			0.00	0.00	---	Endrin aldehyde
----			----			0.00	0.00	---	trans-Chlordane
----			----			0.00	0.00	---	cis-Chlordane
----			----			0.00	0.00	---	Hexachlorobutadiene
4.202	-0.015	17558	----			0.96	0.00	---	Hexachlorobenzene
3.845	-0.012	411837	4.165	-0.013	548836	29.48	29.35	0.4	Tetrachloro-m-xylene M
9.406	-0.009	278261	10.360	-0.014	303370	37.29	34.35	8.2	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

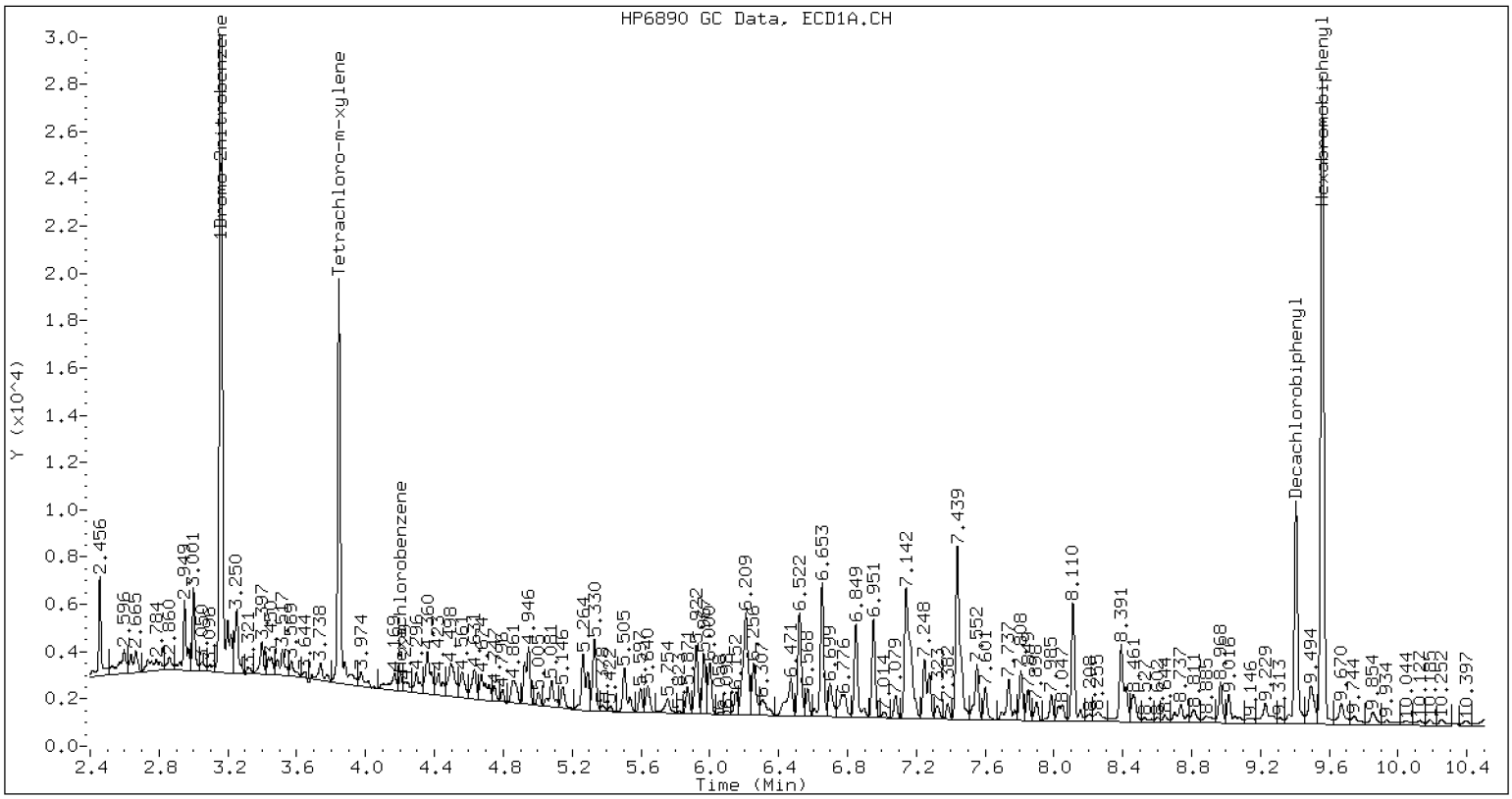
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	672426	1027367	52.8
Hexabromobiphenyl	609723	736386	20.8

Column 2

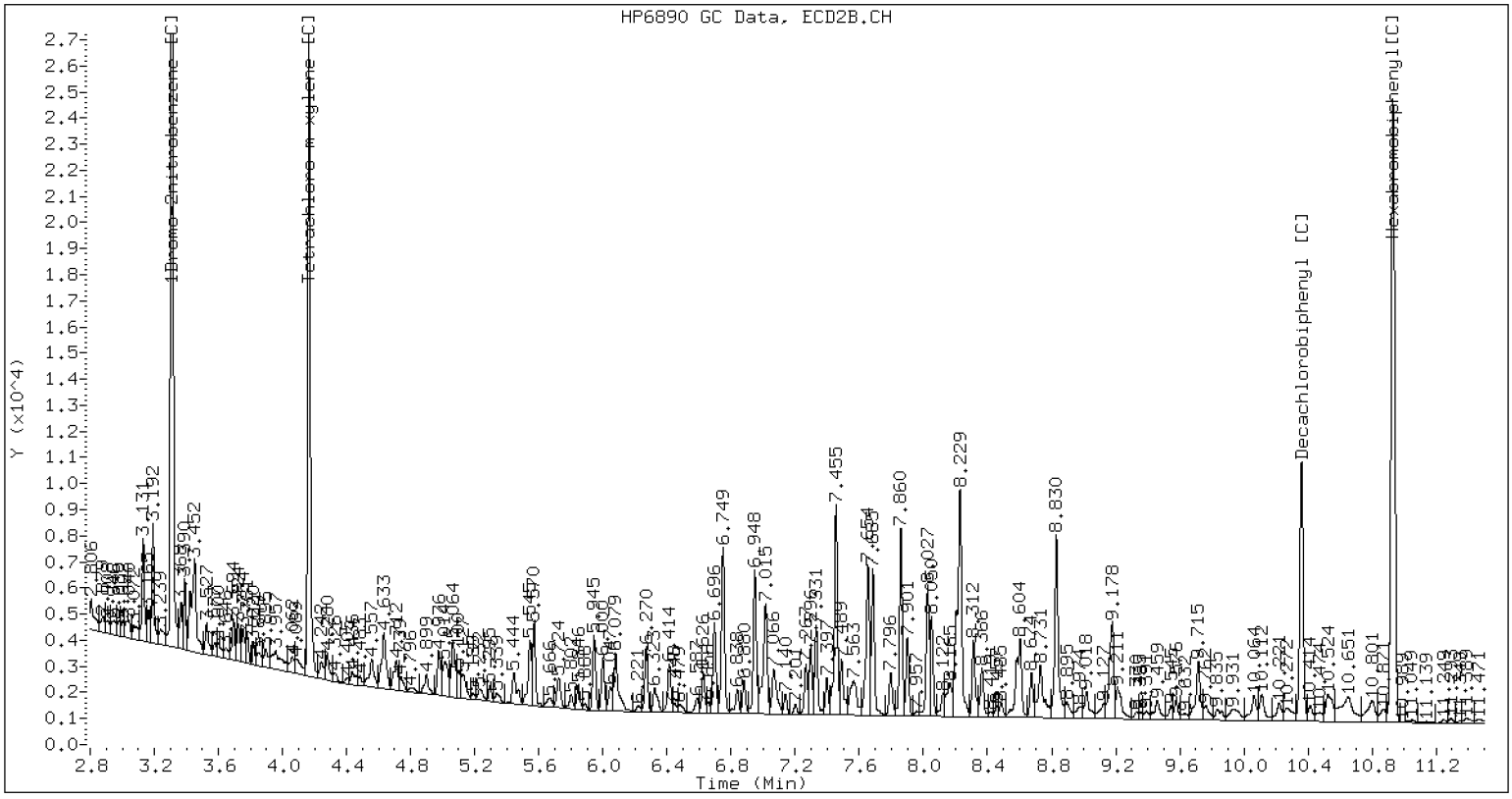
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1006482	1328447	32.0
Hexabromobiphenyl	769764	799022	3.8

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

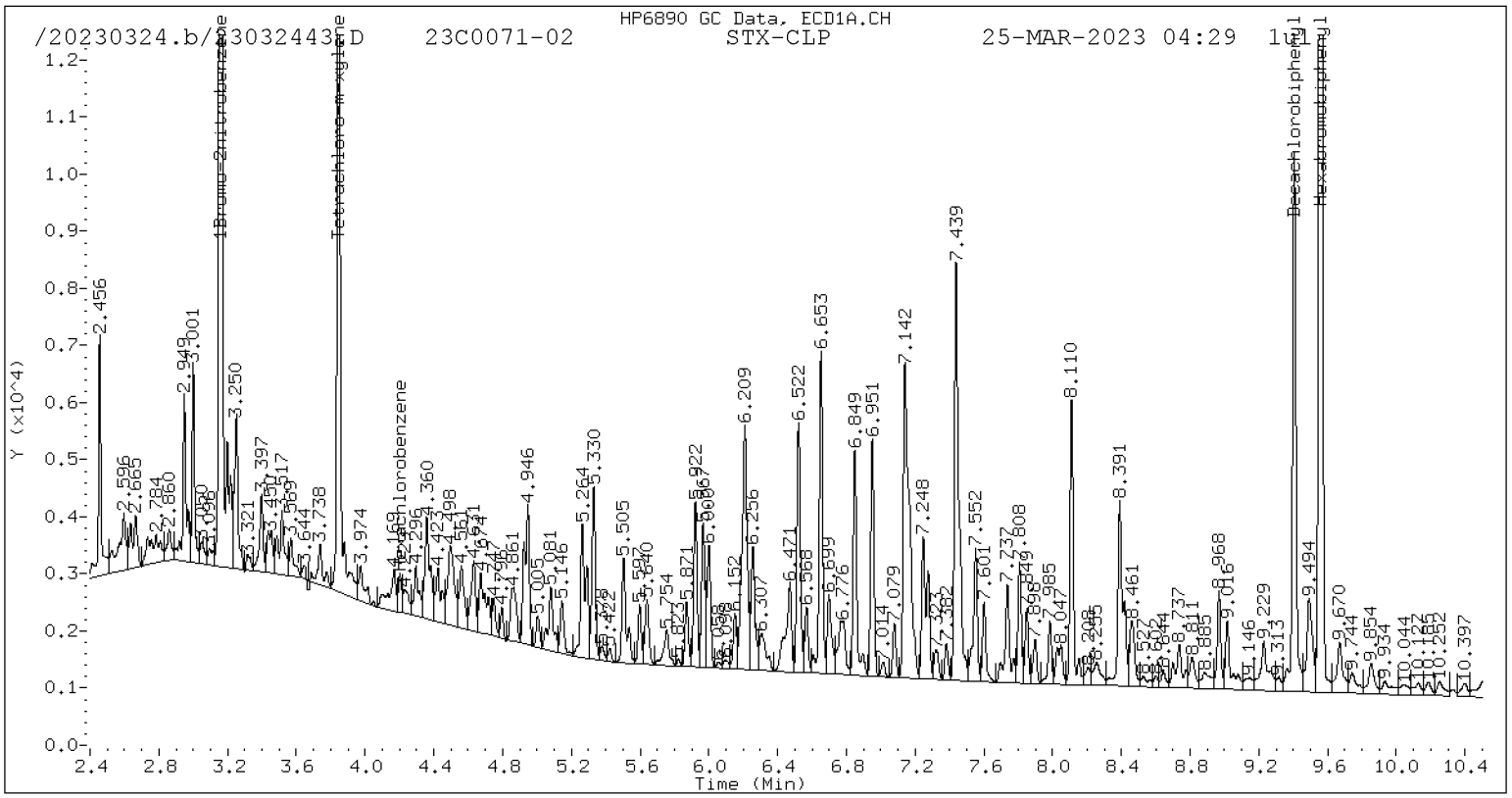
/20230324.b/23032443.D 23C0071-02 STX-CLP 25-MAR-2023 04:29 1ul



/20230324.b/B20230324.b/23032443.D 23C0071-02 CLP2 25-MAR-2023 04:29 1ul

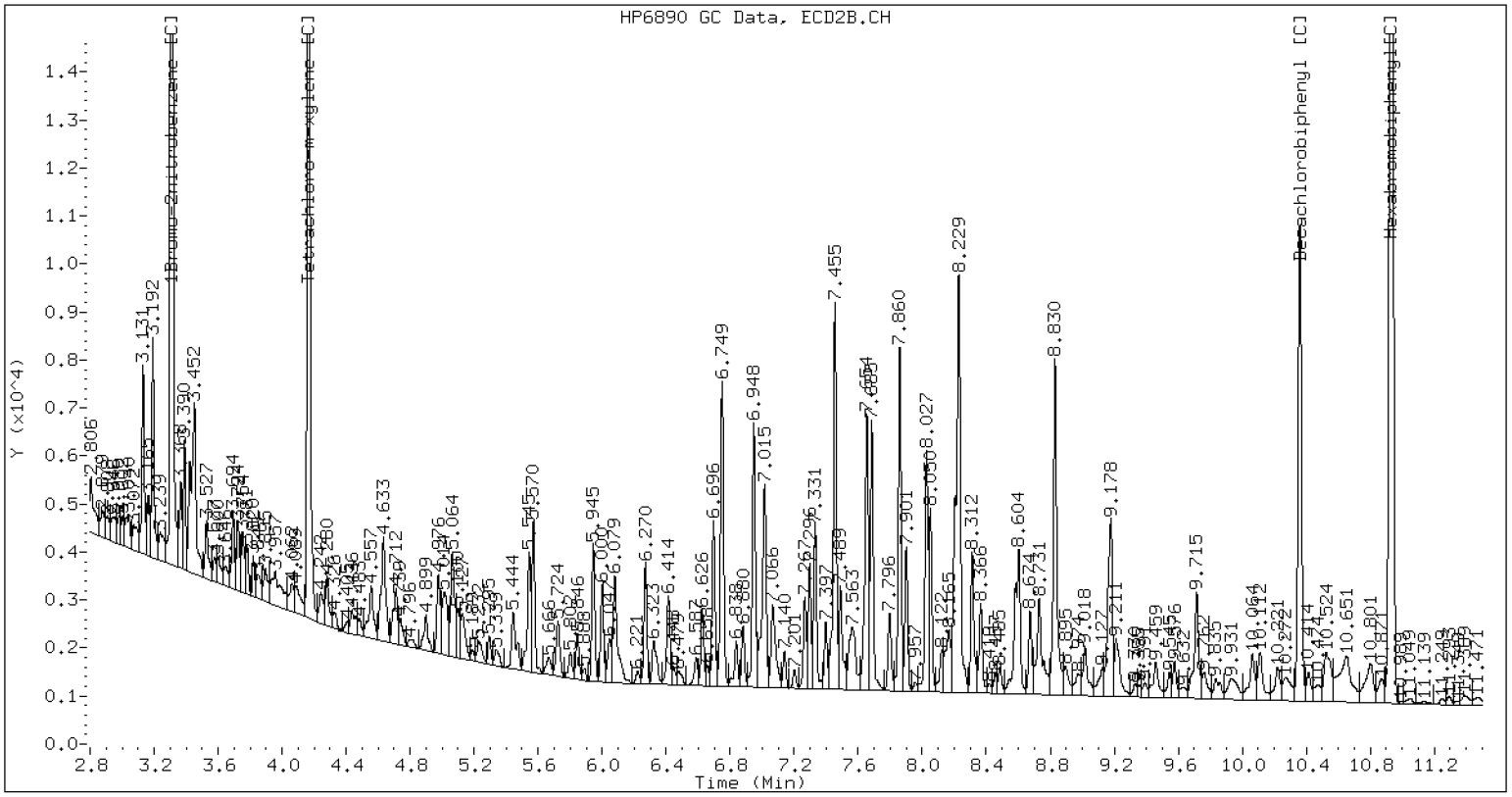


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: YES

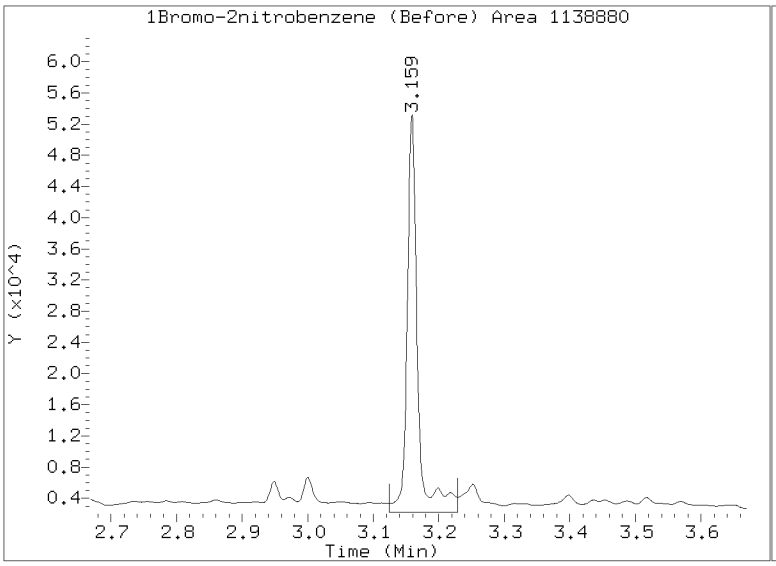
/20230324.b/B20230324.b/23032443.D 23C0071-02 CLP2

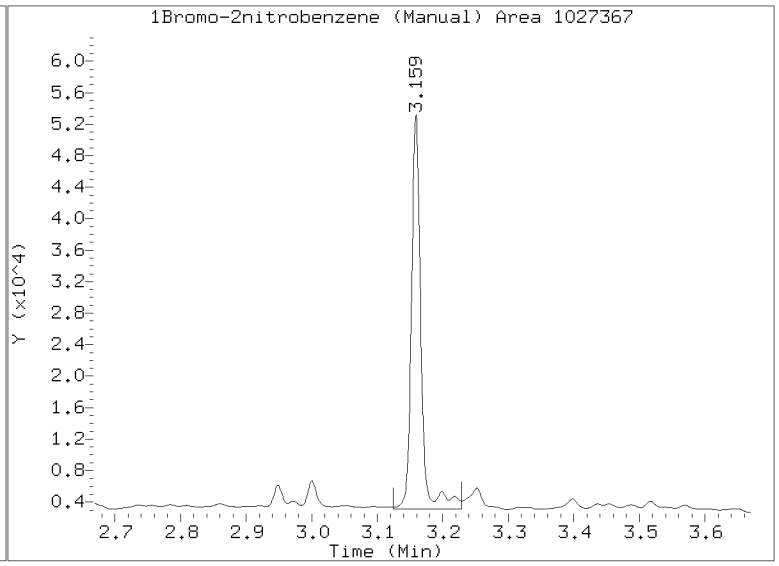


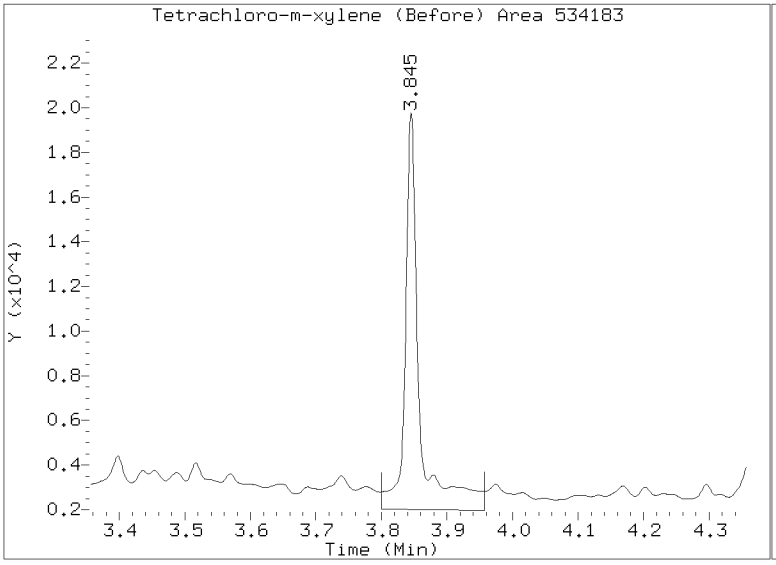
CLP-2 Manual Integration: NO

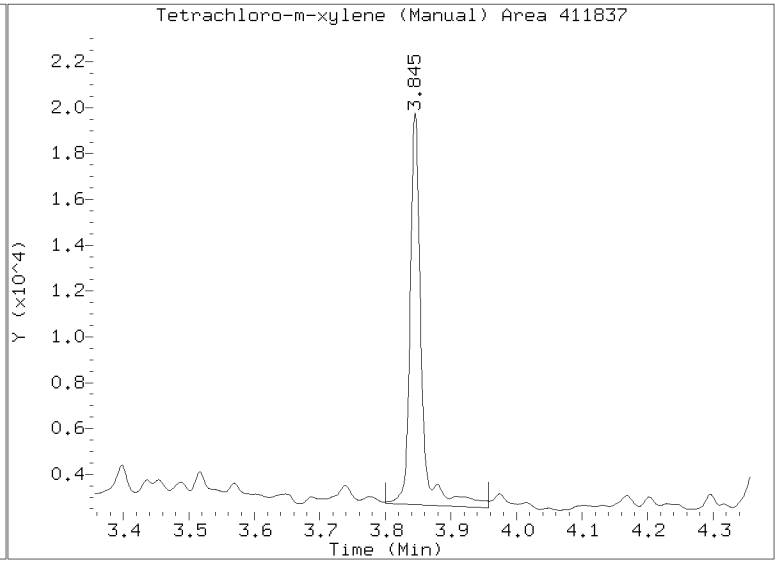
Manual Peak Adjustment Report, STX-CLP

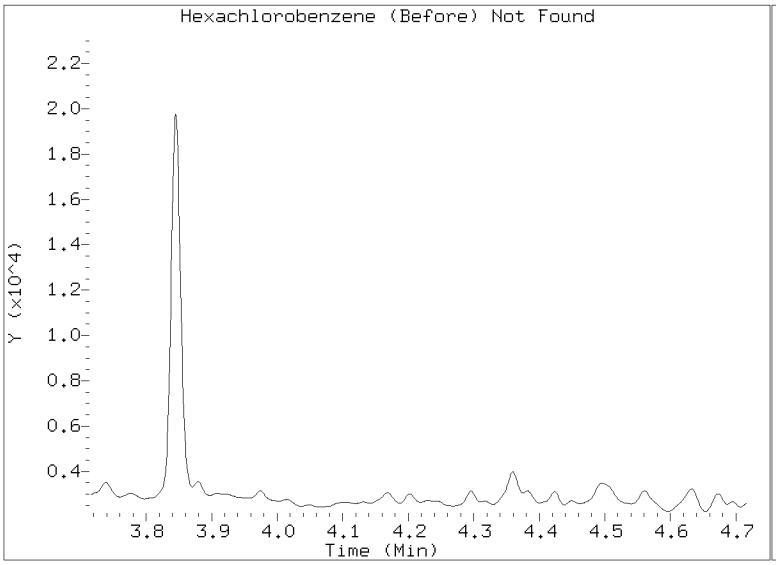
Datafile: /20230324.b/23032443.D
Injection Date: 25-MAR-2023 04:29
Lab ID:23C0071-02 Client ID:
Report Date: 03/28/2023 10:51

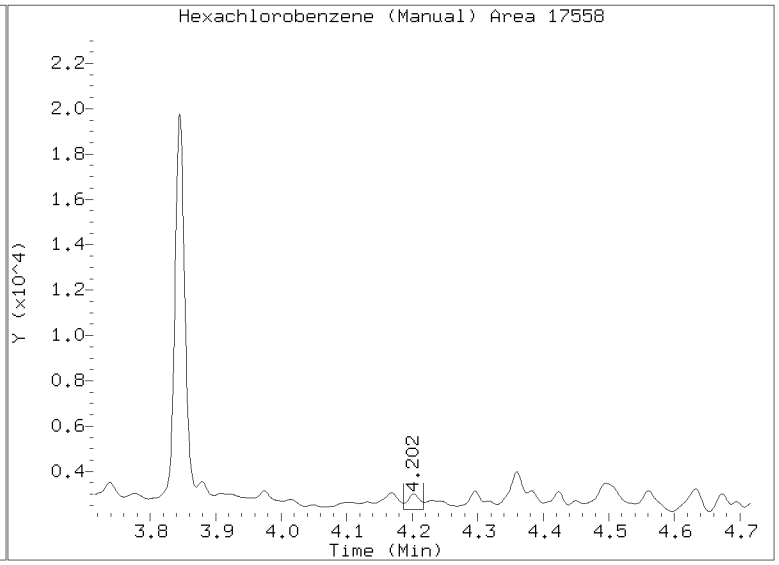












Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW23-SS1036

ORGANIC ANALYSIS DATA SHEET
EPA 8081B

Laboratory:	Analytical Resources, LLC			SDG:	23C0071
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Solid	Laboratory ID:	23C0071-03 A	File ID:	23032444.D
Sampled:	03/02/23 10:10	Prepared:	03/06/23 13:27	Analyzed:	03/25/23 04:47
% Solids:	47.57	Preparation:	EPA 3546 (Microwave)	Initial/Final:	26.34 g Wet / 2.5 mL
Batch:	BLC0107	Sequence:	SLC0442	Calibration:	FL00041
Instrument:	ECD6	Column 1:	STX-CLP	Column 2:	STX-CLPII

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
118-74-1	Hexachlorobenzene	2	1	0.50	0.14	0.50	U

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9809*	*7.09*	*88.8*	*30 - 160*	
Decachlorobiphenyl	*2*	*7.9809*	*6.71*	*84.1*	*30 - 160*	
Tetrachlorometaxylene	*1*	*7.9809*	*5.63*	*70.5*	*30 - 160*	
Tetrachlorometaxylene	*2*	*7.9809*	*5.26*	*65.9*	*30 - 160*	

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230324.b/23032444.D
Data file 2: /20230324.b/B20230324.b/23032444.D
Method: \20230324.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: 23C0071-03
Client ID:
Injection Date: 25-MAR-2023 04:47
Report Date: 03/28/2023 10:51
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
----			----			0.00	0.00	---	alpha-BHC
----			----			0.00	0.00	---	beta-BHC
----			----			0.00	0.00	---	delta-BHC
----			----			0.00	0.00	---	gamma-BHC (Lindane)
----			----			0.00	0.00	---	Heptachlor
----			----			0.00	0.00	---	Aldrin
----			----			0.00	0.00	---	Heptachlor epoxide b
----			----			0.00	0.00	---	Endosulfan I
----			----			0.00	0.00	---	Dieldrin
----			----			0.00	0.00	---	4,4'-DDE
----			----			0.00	0.00	---	Endrin
----			----			0.00	0.00	---	Endosulfan II
----			----			0.00	0.00	---	4,4'-DDD
----			----			0.00	0.00	---	Endosulfan sulfate
----			----			0.00	0.00	---	4,4'-DDT
----			----			0.00	0.00	---	Methoxychlor
----			----			0.00	0.00	---	Endrin ketone
----			----			0.00	0.00	---	Endrin aldehyde
----			----			0.00	0.00	---	trans-Chlordane
----			----			0.00	0.00	---	cis-Chlordane
----			----			0.00	0.00	---	Hexachlorobutadiene
4.202	-0.015	17303	----			0.98	0.00	---	Hexachlorobenzene
3.845	-0.012	380273	4.166	-0.013	507826	28.20	26.37	6.7	Tetrachloro-m-xylene M
9.407	-0.008	270130	10.360	-0.013	299668	35.53	33.64	5.5	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

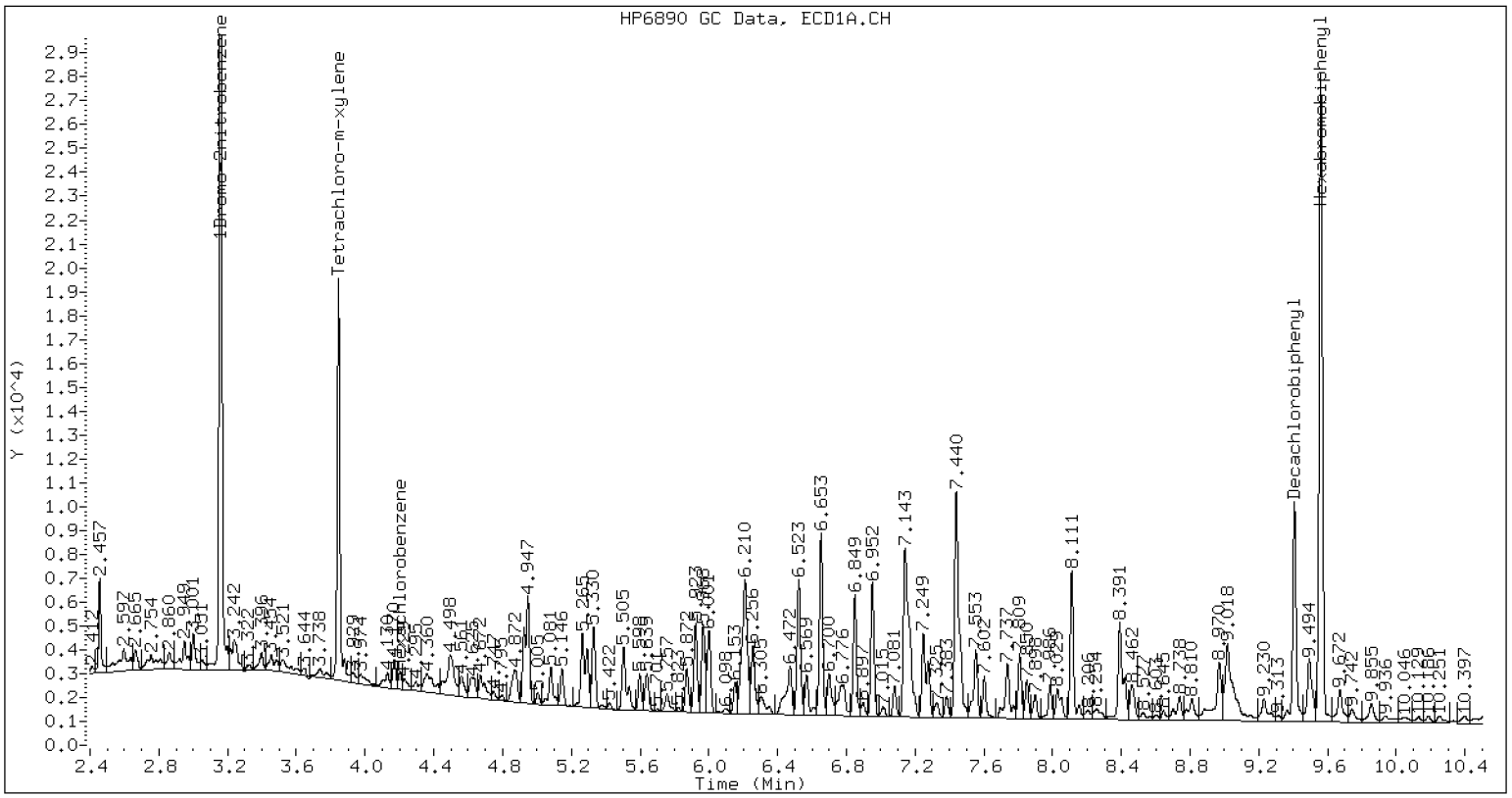
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	672426	991648	47.5
Hexabromobiphenyl	609723	750429	23.1

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1006482	1368060	35.9
Hexabromobiphenyl	769764	806028	4.7

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

/20230324.b/23032444.D 23C0071-03 STX-CLP 25-MAR-2023 04:47 1ul



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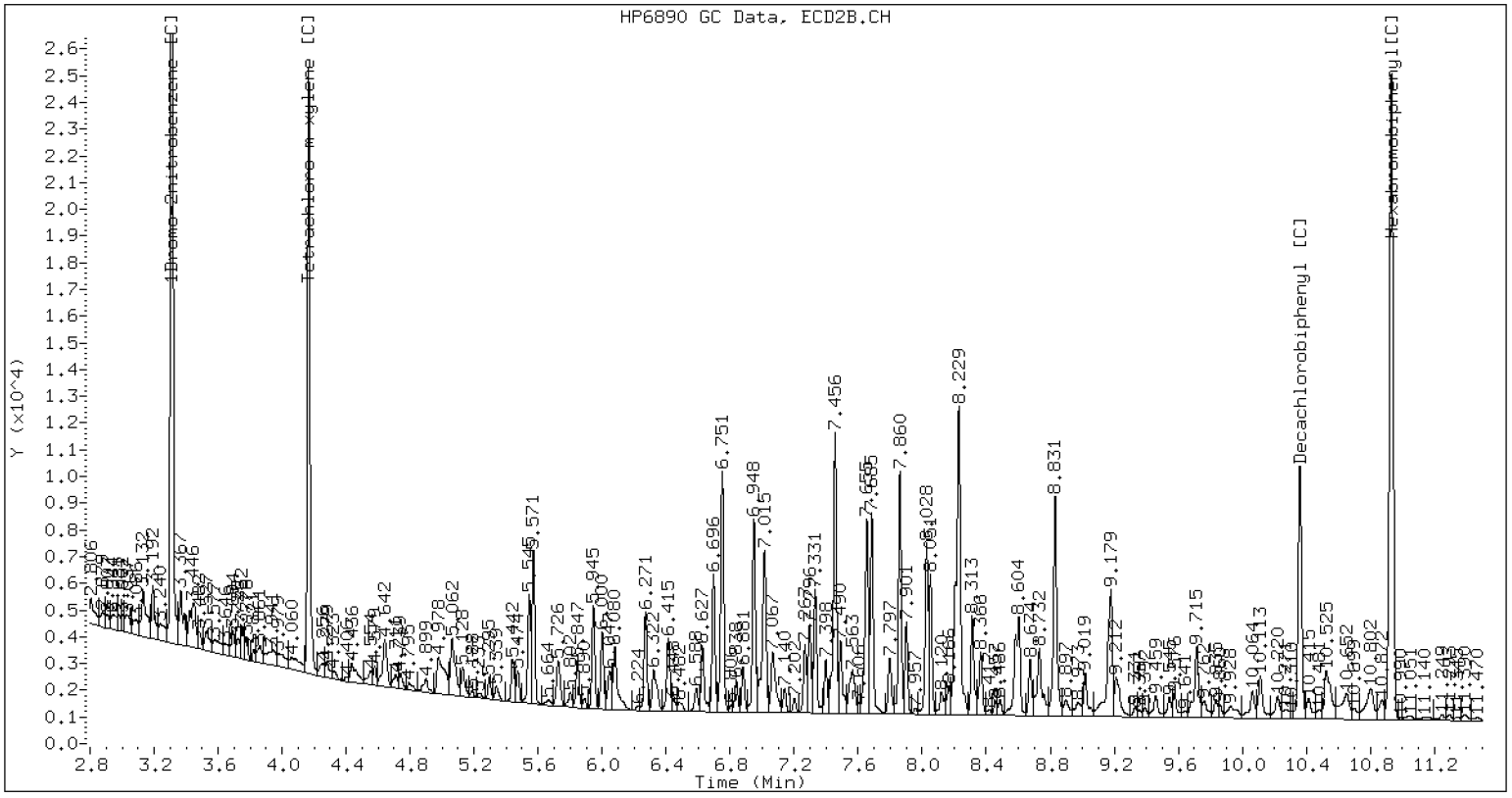
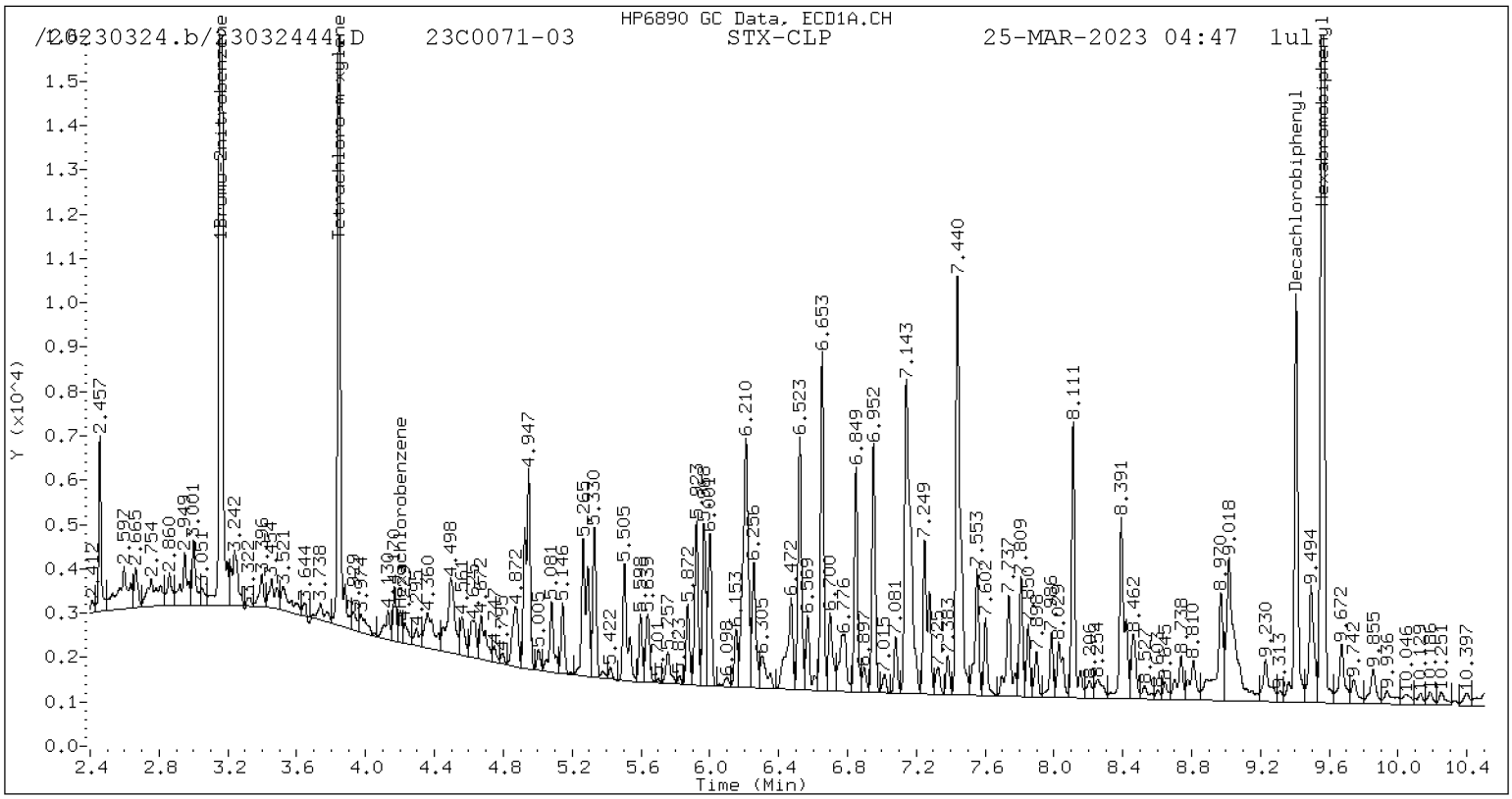
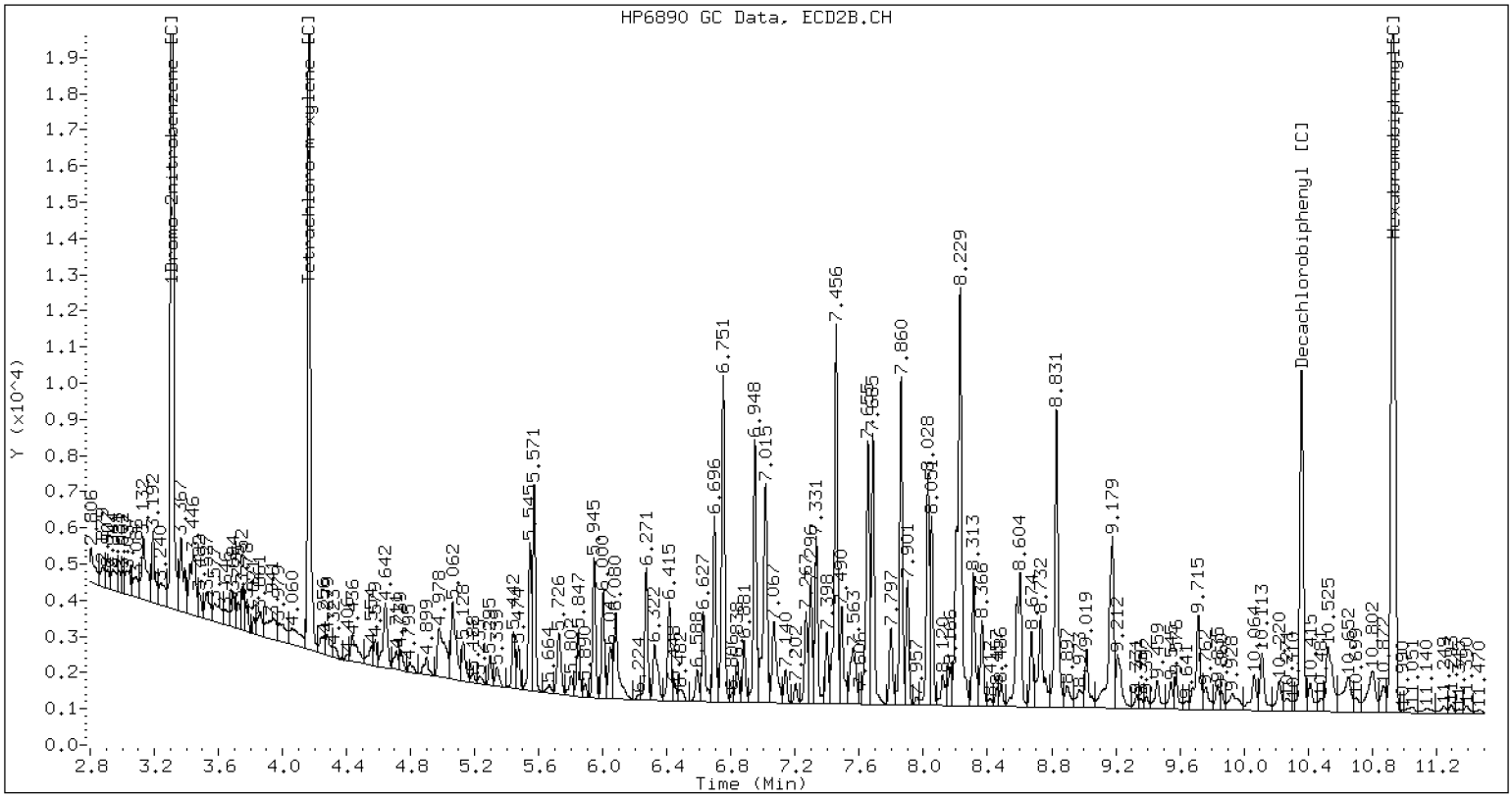


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: YES

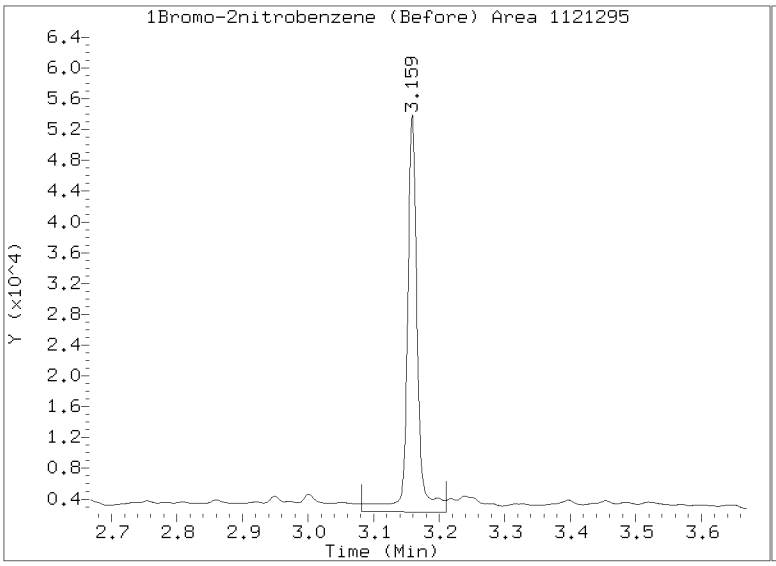
/20230324.b/B20230324.b/23032444.D 23C0071-03 CLP2

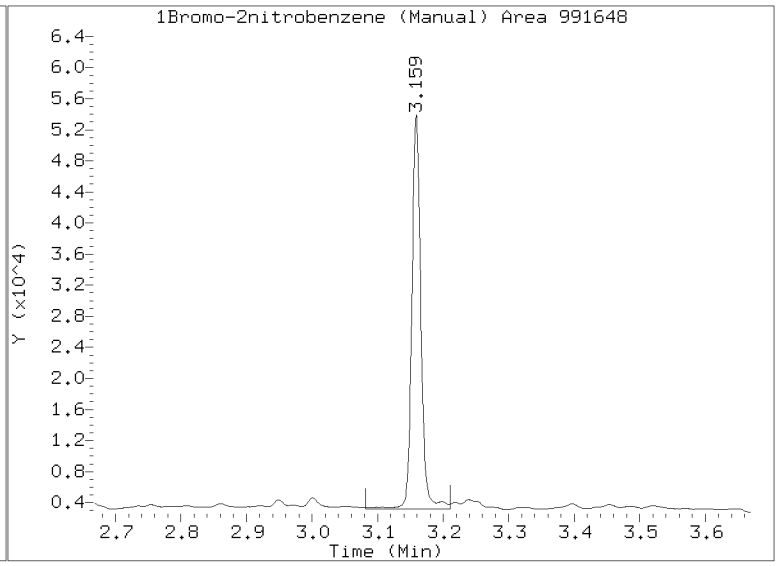


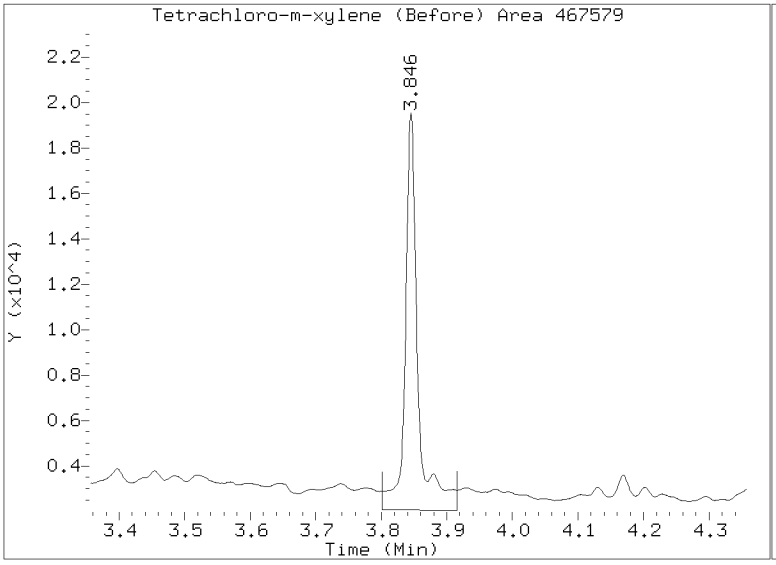
CLP-2 Manual Integration: NO

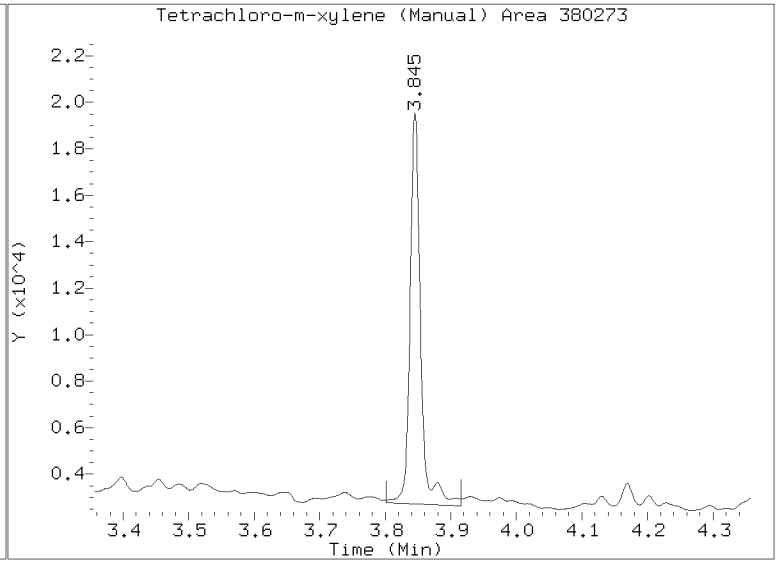
Manual Peak Adjustment Report, STX-CLP

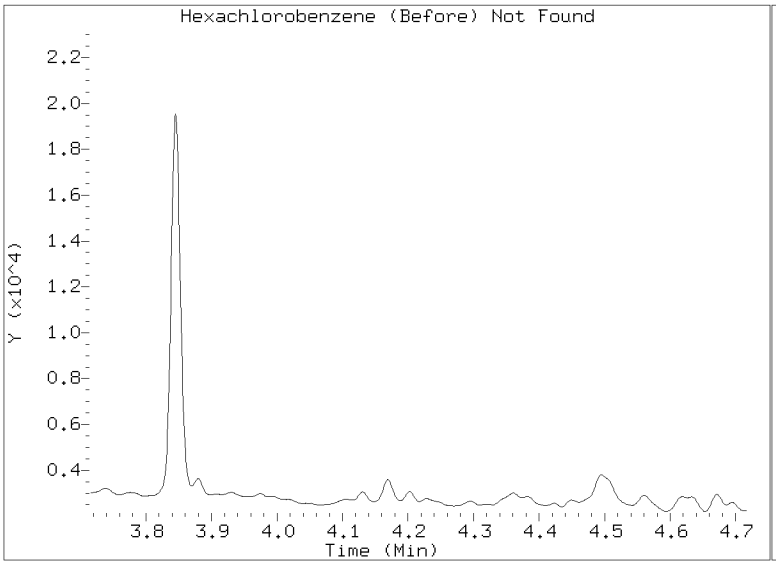
Datafile: /20230324.b/23032444.D
Injection Date: 25-MAR-2023 04:47
Lab ID:23C0071-03 Client ID:
Report Date: 03/28/2023 10:51

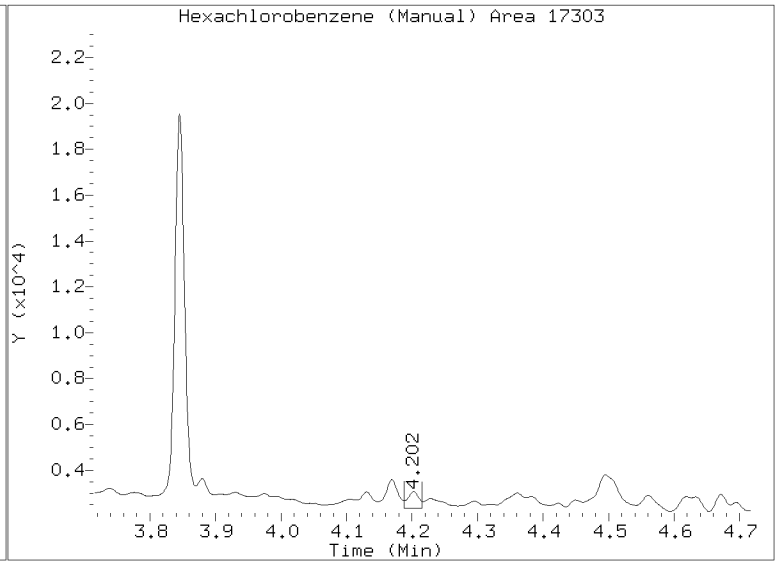












Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW23-SS1044

ORGANIC ANALYSIS DATA SHEET
EPA 8081B

Laboratory:	Analytical Resources, LLC			SDG:	23C0071
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Solid	Laboratory ID:	23C0071-04 A	File ID:	23032445.D
Sampled:	03/02/23 10:22	Prepared:	03/06/23 13:27	Analyzed:	03/25/23 05:05
% Solids:	47.78	Preparation:	EPA 3546 (Microwave)	Initial/Final:	26.22 g Wet / 2.5 mL
Batch:	BLC0107	Sequence:	SLC0442	Calibration:	FL00041
Instrument:	ECD6	Column 1:	STX-CLP	Column 2:	STX-CLPII

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
118-74-1	Hexachlorobenzene	2	1	0.50	0.14	0.50	U

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9822*	*8.31*	*104*	*30 - 160*	
Decachlorobiphenyl	*2*	*7.9822*	*7.41*	*92.9*	*30 - 160*	
Tetrachlorometaxylene	*1*	*7.9822*	*5.30*	*66.4*	*30 - 160*	
Tetrachlorometaxylene	*2*	*7.9822*	*5.62*	*70.4*	*30 - 160*	

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230324.b/23032445.D
Data file 2: /20230324.b/B20230324.b/23032445.D
Method: \20230324.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: 23C0071-04
Client ID:
Injection Date: 25-MAR-2023 05:05
Report Date: 03/28/2023 10:51
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
----			----			0.00	0.00	---	alpha-BHC
----			----			0.00	0.00	---	beta-BHC
----			----			0.00	0.00	---	delta-BHC
----			----			0.00	0.00	---	gamma-BHC (Lindane)
----			----			0.00	0.00	---	Heptachlor
----			----			0.00	0.00	---	Aldrin
----			----			0.00	0.00	---	Heptachlor epoxide b
----			----			0.00	0.00	---	Endosulfan I
----			----			0.00	0.00	---	Dieldrin
----			----			0.00	0.00	---	4,4'-DDE
----			----			0.00	0.00	---	Endrin
----			----			0.00	0.00	---	Endosulfan II
----			----			0.00	0.00	---	4,4'-DDD
----			----			0.00	0.00	---	Endosulfan sulfate
----			----			0.00	0.00	---	4,4'-DDT
----			----			0.00	0.00	---	Methoxychlor
----			----			0.00	0.00	---	Endrin ketone
----			----			0.00	0.00	---	Endrin aldehyde
----			----			0.00	0.00	---	trans-Chlordane
----			----			0.00	0.00	---	cis-Chlordane
----			----			0.00	0.00	---	Hexachlorobutadiene
4.205	-0.012	11124	----			1.17	0.00	---	Hexachlorobenzene
3.848	-0.010	192632	4.167	-0.012	280362	26.54	28.15	5.9	Tetrachloro-m-xylene M
9.405	-0.009	168557	10.359	-0.014	175935	41.63	37.15	11.4	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

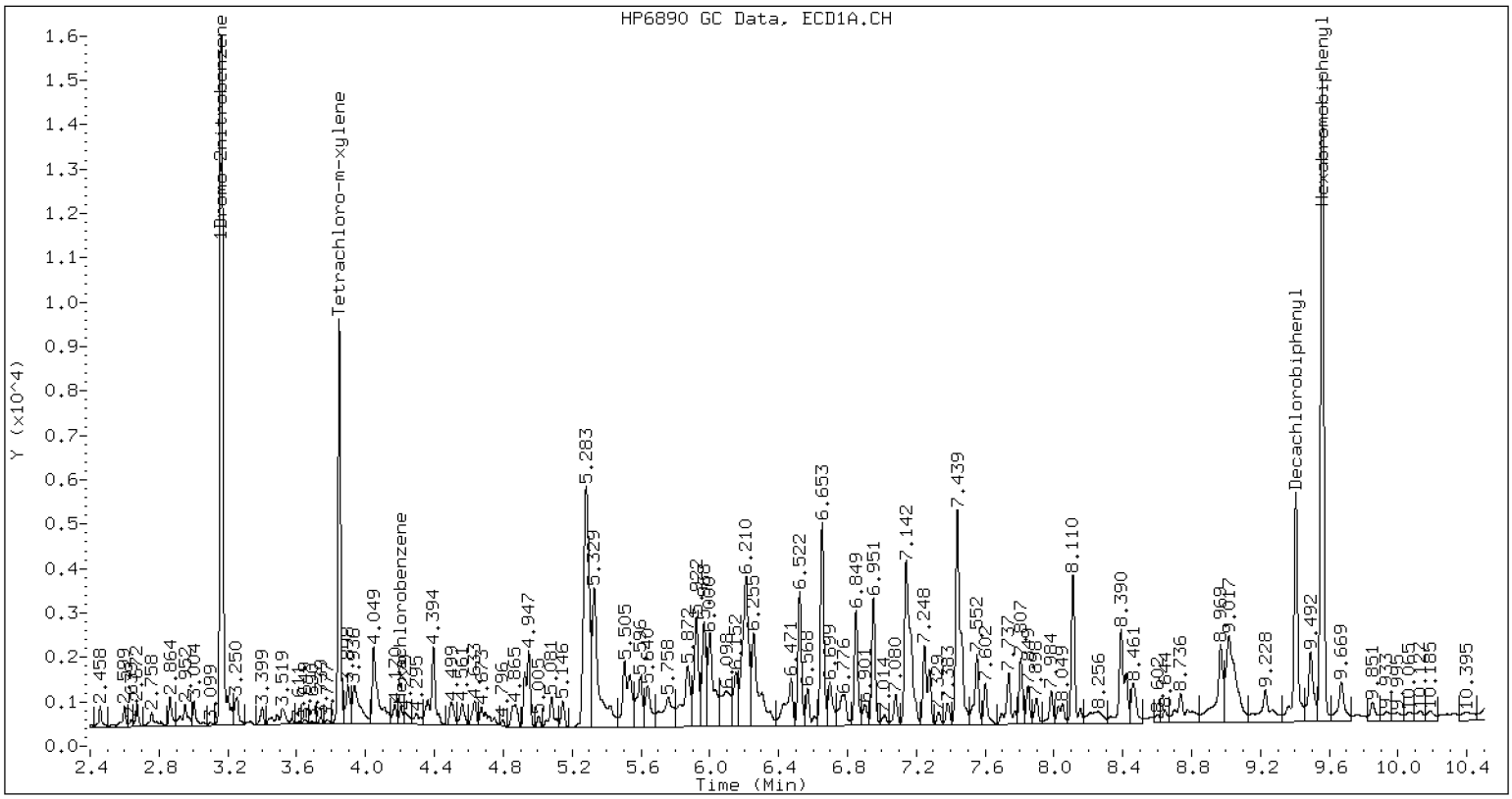
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	672426	533666	-20.6
Hexabromobiphenyl	609723	399602	-34.5

Column 2

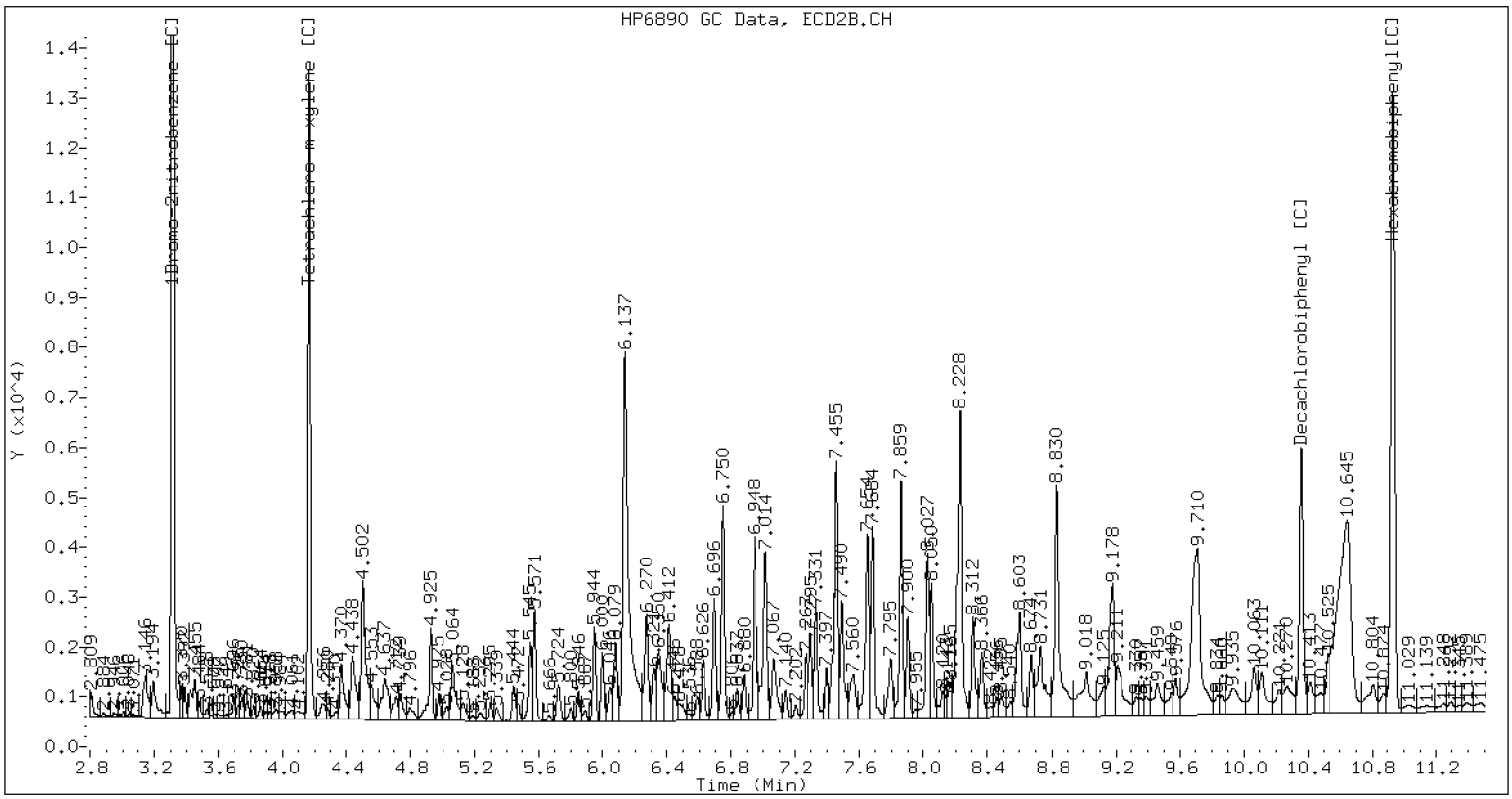
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1006482	707424	-29.7
Hexabromobiphenyl	769764	428539	-44.3

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

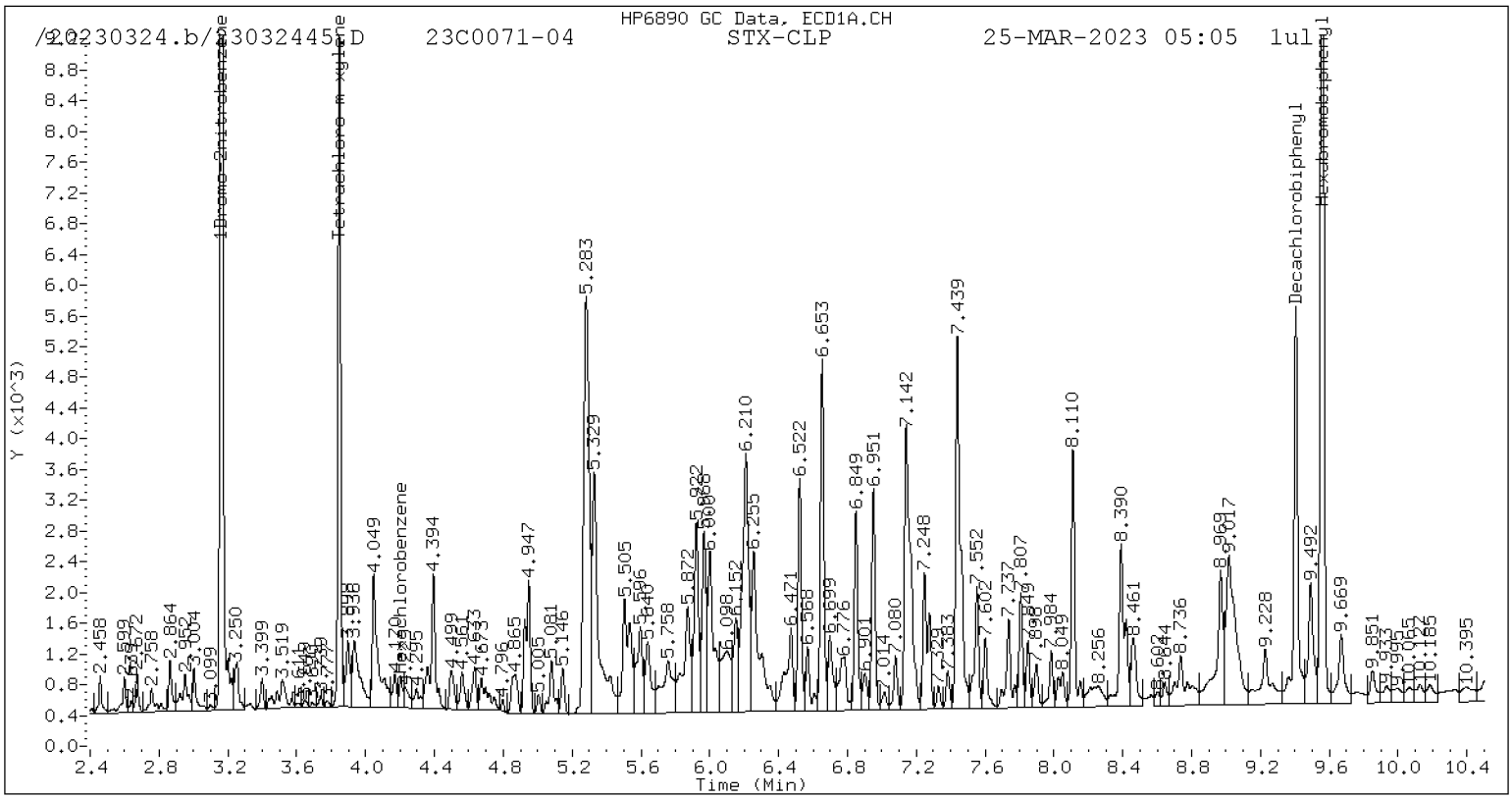
/20230324.b/23032445.D 23C0071-04 STX-CLP 25-MAR-2023 05:05 1ul



/20230324.b/B20230324.b/23032445.D 23C0071-04 CLP2 25-MAR-2023 05:05 1ul

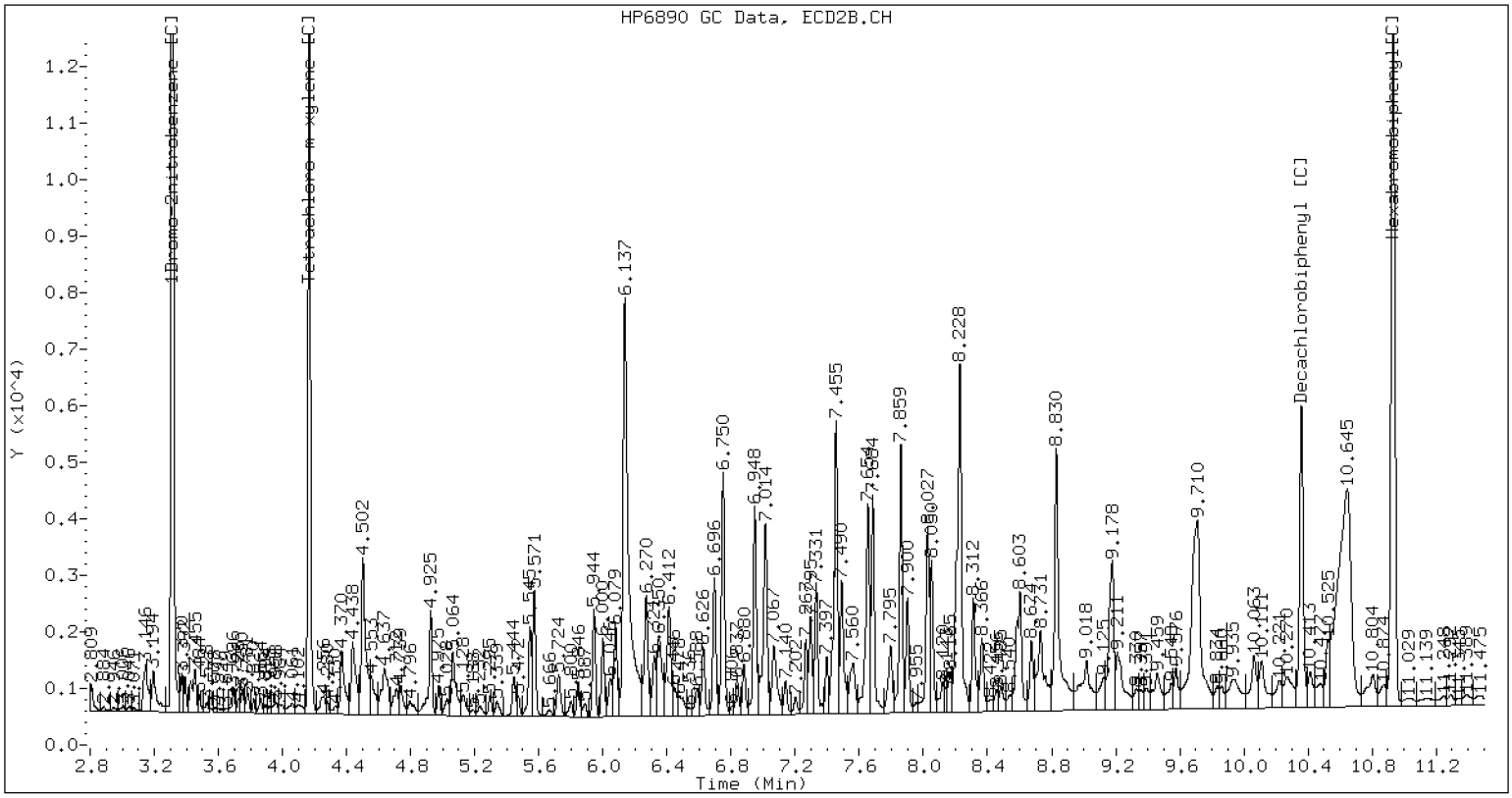


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: YES

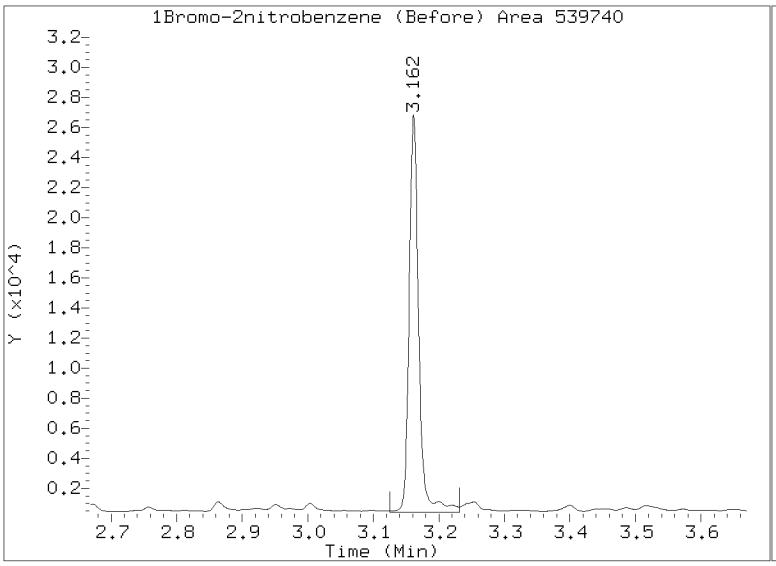
/20230324.b/B20230324.b/23032445.D 23C0071-04 CLP2

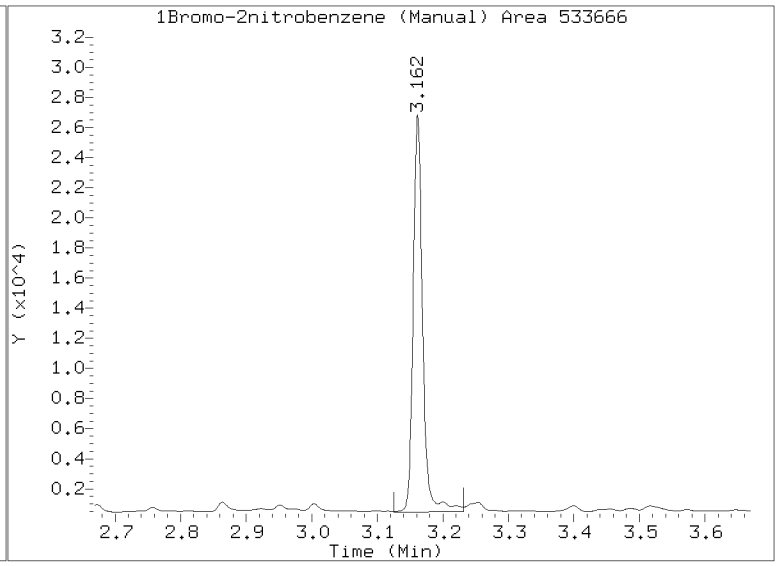


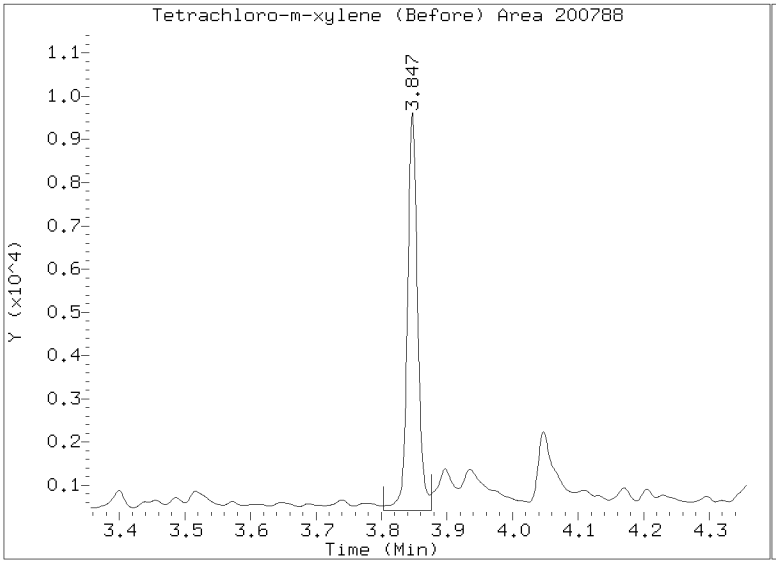
CLP-2 Manual Integration: NO

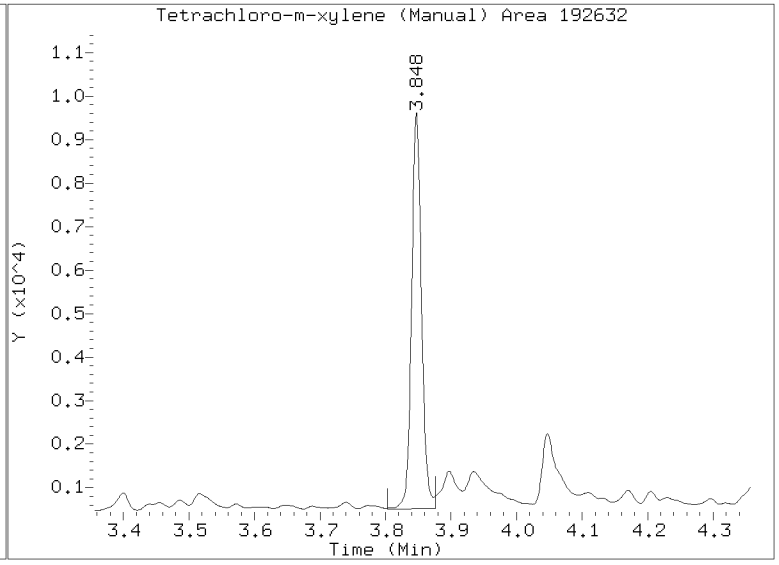
Manual Peak Adjustment Report, STX-CLP

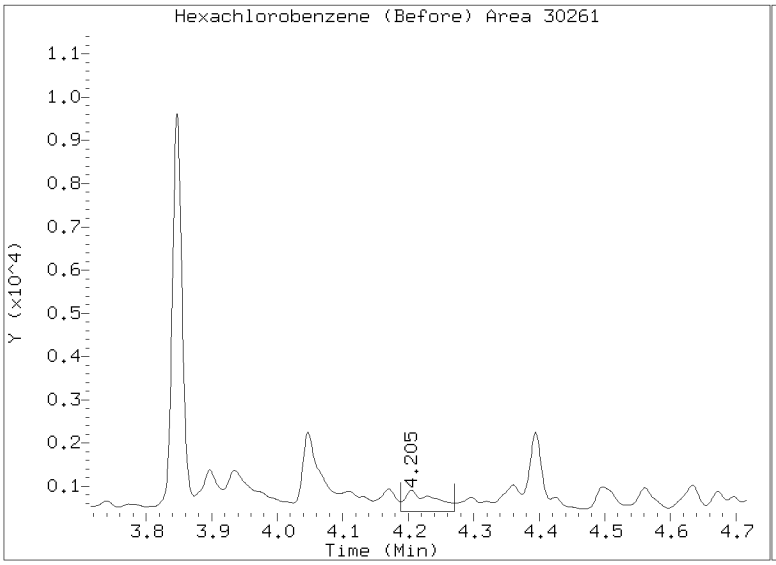
Datafile: /20230324.b/23032445.D
Injection Date: 25-MAR-2023 05:05
Lab ID:23C0071-04 Client ID:
Report Date: 03/28/2023 10:51

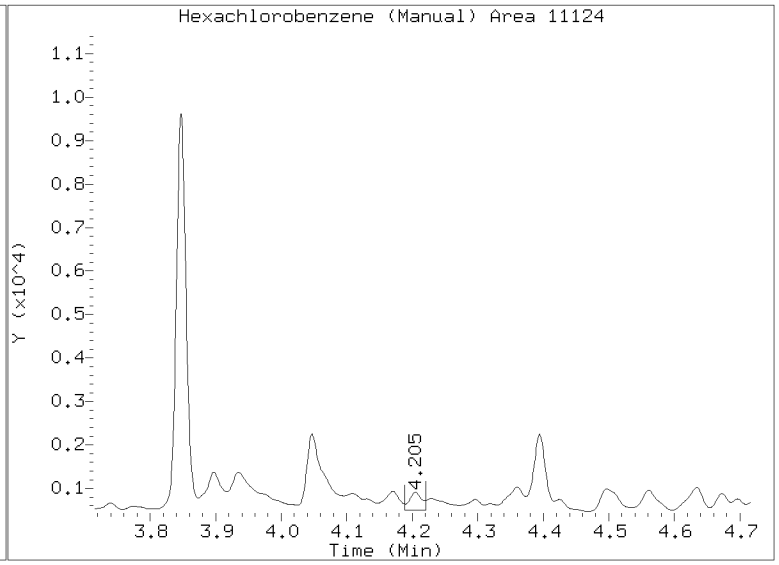












Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW23-SS1048

ORGANIC ANALYSIS DATA SHEET
EPA 8081B

Laboratory:	Analytical Resources, LLC			SDG:	23C0071
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Solid	Laboratory ID:	23C0071-05 A	File ID:	23032446.D
Sampled:	03/02/23 10:32	Prepared:	03/06/23 13:27	Analyzed:	03/25/23 05:23
% Solids:	50.00	Preparation:	EPA 3546 (Microwave)	Initial/Final:	25.07 g Wet / 2.5 mL
Batch:	BLC0107	Sequence:	SLC0442	Calibration:	FL00041
Instrument:	ECD6	Column 1:	STX-CLP	Column 2:	STX-CLPII

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
118-74-1	Hexachlorobenzene	2	1	0.50	0.14	0.50	U

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9777*	*7.21*	*90.3*	*30 - 160*	
Decachlorobiphenyl	*2*	*7.9777*	*7.18*	*90.0*	*30 - 160*	
Tetrachlorometaxylene	*1*	*7.9777*	*6.10*	*76.4*	*30 - 160*	
Tetrachlorometaxylene	*2*	*7.9777*	*5.24*	*65.6*	*30 - 160*	

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230324.b/23032446.D
Data file 2: /20230324.b/B20230324.b/23032446.D
Method: \20230324.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: 23C0071-05
Client ID:
Injection Date: 25-MAR-2023 05:23
Report Date: 03/28/2023 10:51
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
----			----			0.00	0.00	---	alpha-BHC
----			----			0.00	0.00	---	beta-BHC
----			----			0.00	0.00	---	delta-BHC
----			----			0.00	0.00	---	gamma-BHC (Lindane)
----			----			0.00	0.00	---	Heptachlor
----			----			0.00	0.00	---	Aldrin
----			----			0.00	0.00	---	Heptachlor epoxide b
----			----			0.00	0.00	---	Endosulfan I
----			----			0.00	0.00	---	Dieldrin
----			----			0.00	0.00	---	4,4'-DDE
----			----			0.00	0.00	---	Endrin
----			----			0.00	0.00	---	Endosulfan II
----			----			0.00	0.00	---	4,4'-DDD
----			----			0.00	0.00	---	Endosulfan sulfate
----			----			0.00	0.00	---	4,4'-DDT
----			----			0.00	0.00	---	Methoxychlor
----			----			0.00	0.00	---	Endrin ketone
----			----			0.00	0.00	---	Endrin aldehyde
----			----			0.00	0.00	---	trans-Chlordane
----			----			0.00	0.00	---	cis-Chlordane
----			----			0.00	0.00	---	Hexachlorobutadiene
4.202	-0.014	13587	----			0.78	0.00	---	Hexachlorobenzene
3.846	-0.012	407527	4.165	-0.013	503689	30.57	26.26	15.2	Tetrachloro-m-xylene M
9.407	-0.007	273076	10.361	-0.012	317593	36.13	35.99	0.4	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

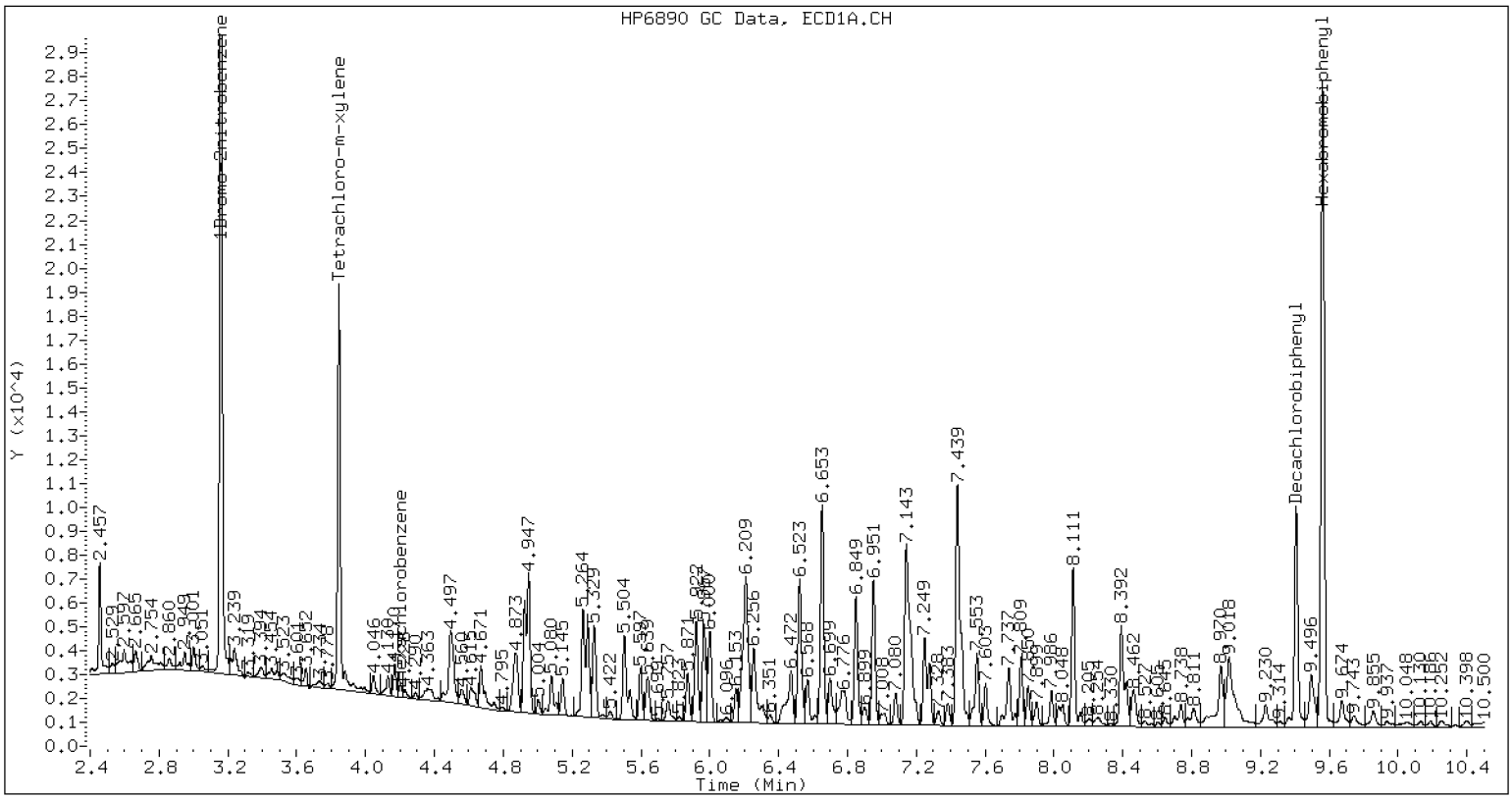
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	672426	980249	45.8
Hexabromobiphenyl	609723	745990	22.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1006482	1362782	35.4
Hexabromobiphenyl	769764	798527	3.7

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

/20230324.b/23032446.D 23C0071-05 STX-CLP 25-MAR-2023 05:23 1ul



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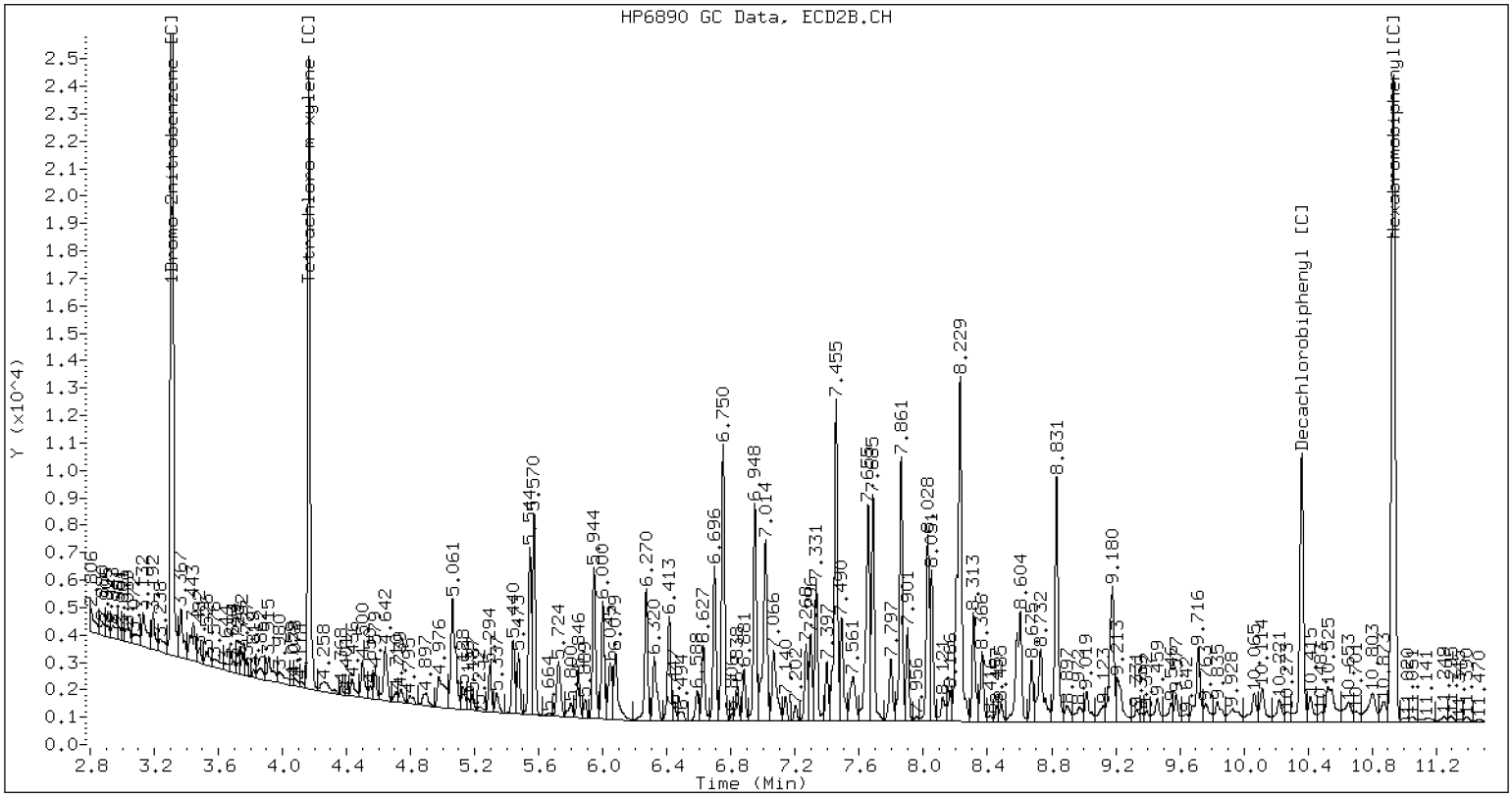
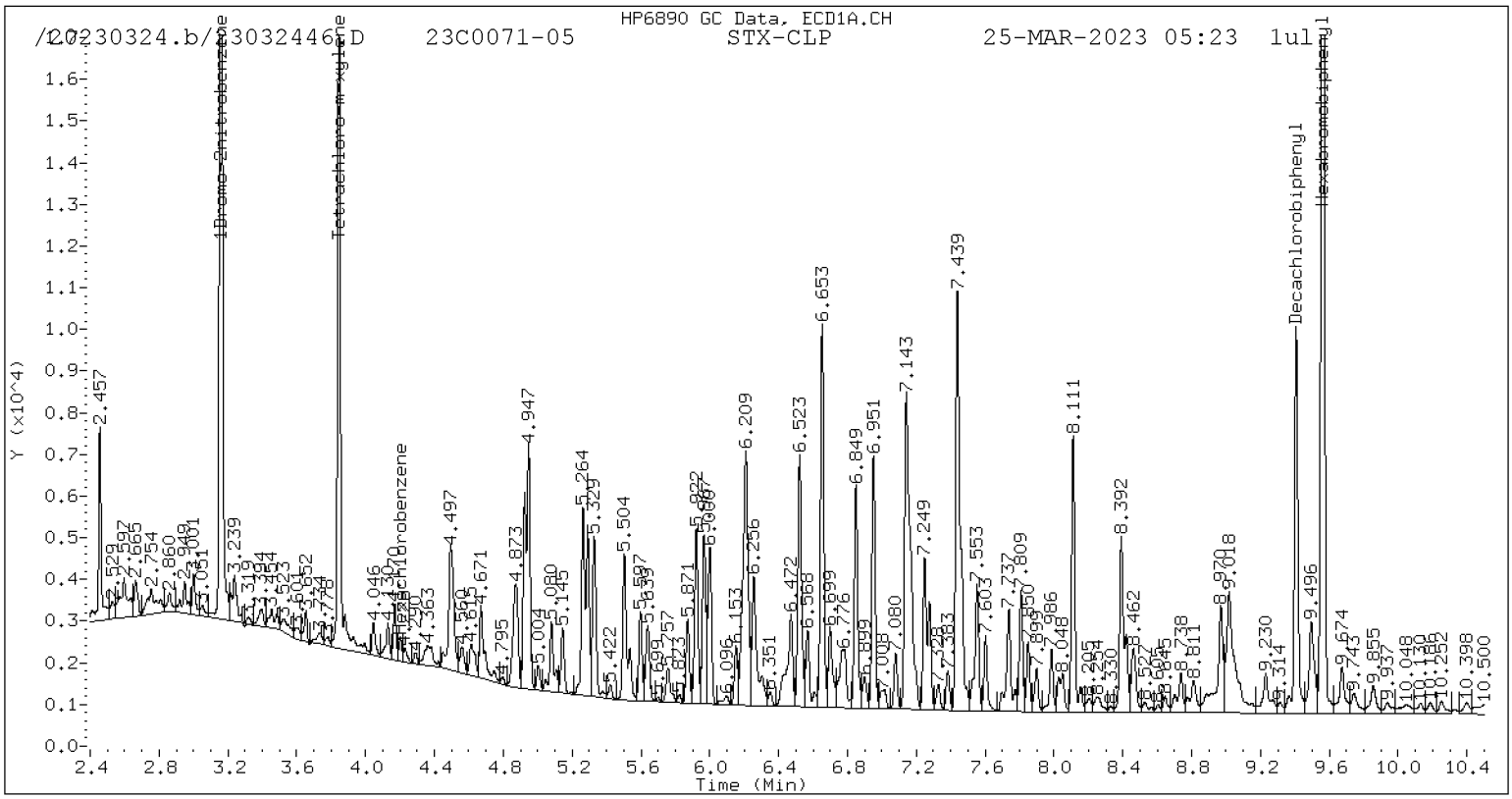
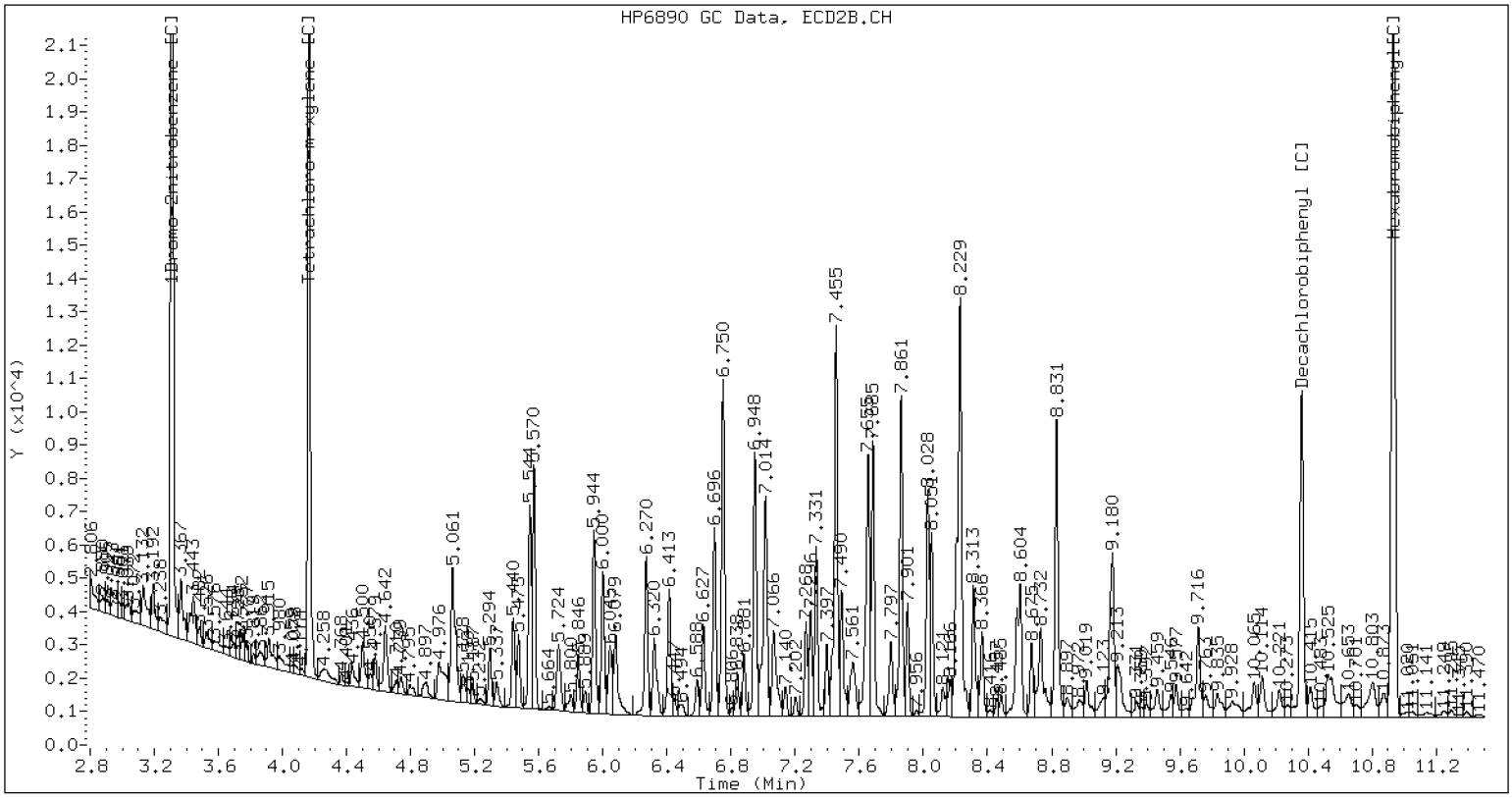


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: YES

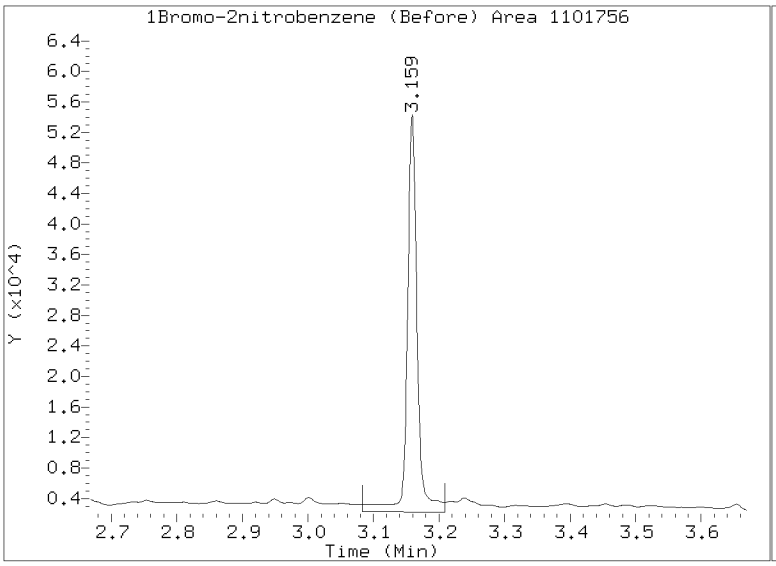
/20230324.b/B20230324.b/23032446.D 23C0071-05 CLP2

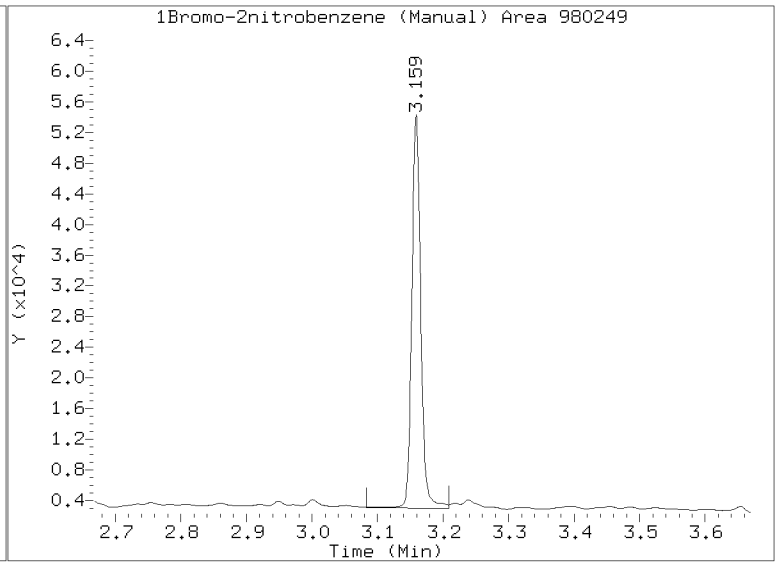


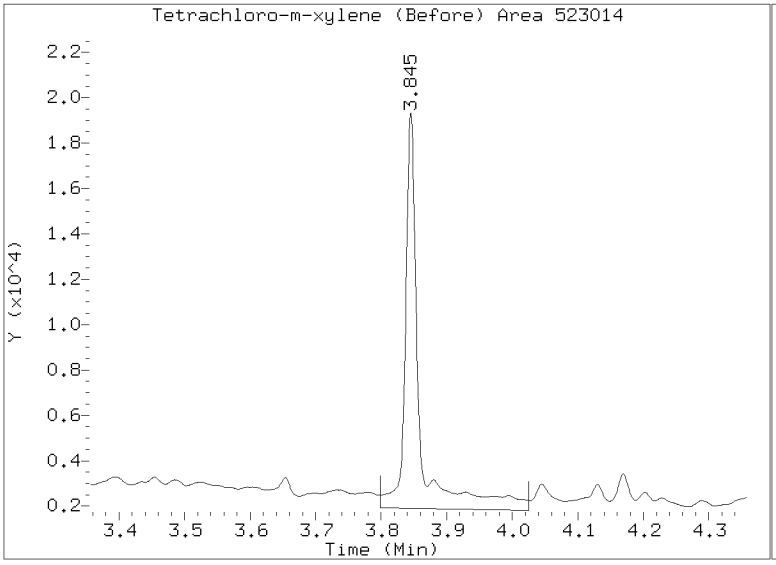
CLP-2 Manual Integration: NO

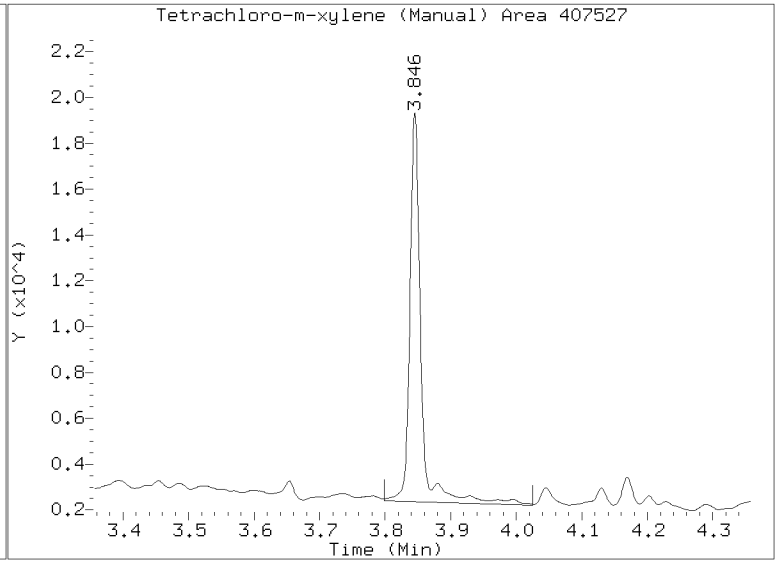
Manual Peak Adjustment Report, STX-CLP

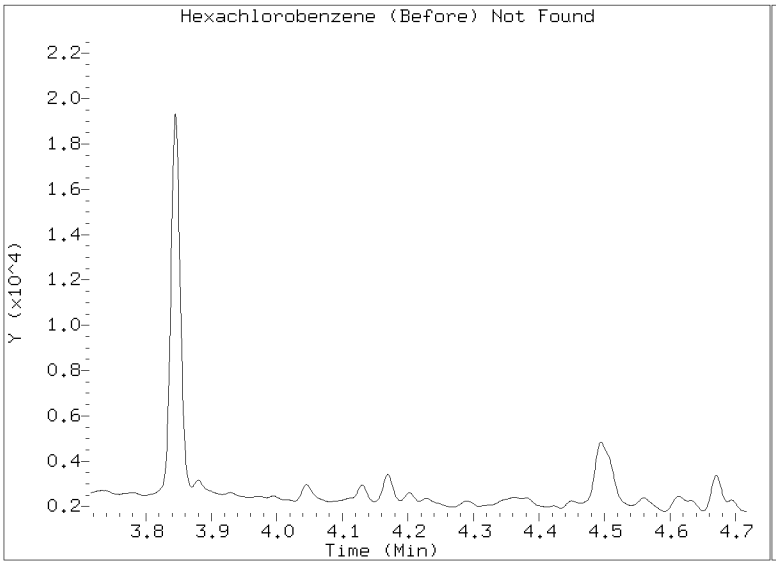
Datafile: /20230324.b/23032446.D
Injection Date: 25-MAR-2023 05:23
Lab ID:23C0071-05 Client ID:
Report Date: 03/28/2023 10:51

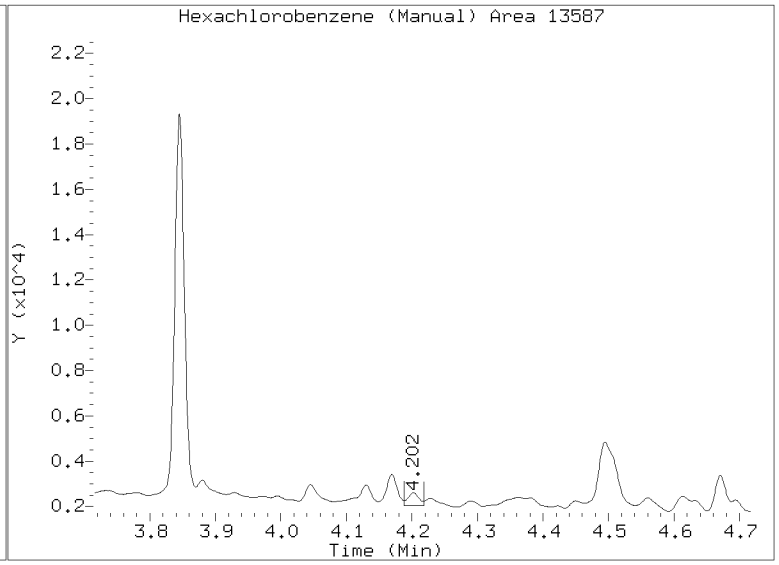












Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW23-SS1054

ORGANIC ANALYSIS DATA SHEET
EPA 8081B

Laboratory:	Analytical Resources, LLC			SDG:	23C0071
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Solid	Laboratory ID:	23C0071-06 A	File ID:	23032447.D
Sampled:	03/02/23 10:41	Prepared:	03/06/23 13:27	Analyzed:	03/25/23 05:41
% Solids:	50.43	Preparation:	EPA 3546 (Microwave)	Initial/Final:	24.77 g Wet / 2.5 mL
Batch:	BLC0107	Sequence:	SLC0442	Calibration:	FL00041
Instrument:	ECD6	Column 1:	STX-CLP	Column 2:	STX-CLPII

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
118-74-1	Hexachlorobenzene	2	1	0.50	0.15	0.50	U

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*8.0054*	*7.16*	*89.4*	*30 - 160*	
Decachlorobiphenyl	*2*	*8.0054*	*6.61*	*82.6*	*30 - 160*	
Tetrachlorometaxylene	*1*	*8.0054*	*5.47*	*68.3*	*30 - 160*	
Tetrachlorometaxylene	*2*	*8.0054*	*5.20*	*65.0*	*30 - 160*	

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230324.b/23032447.D
Data file 2: /20230324.b/B20230324.b/23032447.D
Method: \20230324.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: 23C0071-06
Client ID:
Injection Date: 25-MAR-2023 05:41
Report Date: 03/28/2023 10:51
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP on col	CLP2 on col	RPD	Compound/Flag	
RT	Shift	Response	RT	Shift	Response					
----			----			0.00	0.00	---	alpha-BHC	
----			----			0.00	0.00	---	beta-BHC	
----			----			0.00	0.00	---	delta-BHC	
----			----			0.00	0.00	---	gamma-BHC (Lindane)	
----			----			0.00	0.00	---	Heptachlor	
----			----			0.00	0.00	---	Aldrin	
----			----			0.00	0.00	---	Heptachlor epoxide b	
----			----			0.00	0.00	---	Endosulfan I	
----			----			0.00	0.00	---	Dieldrin	
----			----			0.00	0.00	---	4,4'-DDE	
----			----			0.00	0.00	---	Endrin	
----			----			0.00	0.00	---	Endosulfan II	
----			----			0.00	0.00	---	4,4'-DDD	
----			----			0.00	0.00	---	Endosulfan sulfate	
----			----			0.00	0.00	---	4,4'-DDT	
----			----			0.00	0.00	---	Methoxychlor	
----			----			0.00	0.00	---	Endrin ketone	
----			----			0.00	0.00	---	Endrin aldehyde	
----			----			0.00	0.00	---	trans-Chlordane	
----			----			0.00	0.00	---	cis-Chlordane	
----			----			0.00	0.00	---	Hexachlorobutadiene	
4.203	-0.014	16229	----			0.88	0.00	---	Hexachlorobenzene	
3.846	-0.011	385501	4.165	-0.013	499383	27.33	25.99	5.0	Tetrachloro-m-xylene	M
9.407	-0.008	277151	10.360	-0.013	303511	35.78	33.05	7.9	Decachlorobiphenyl	

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

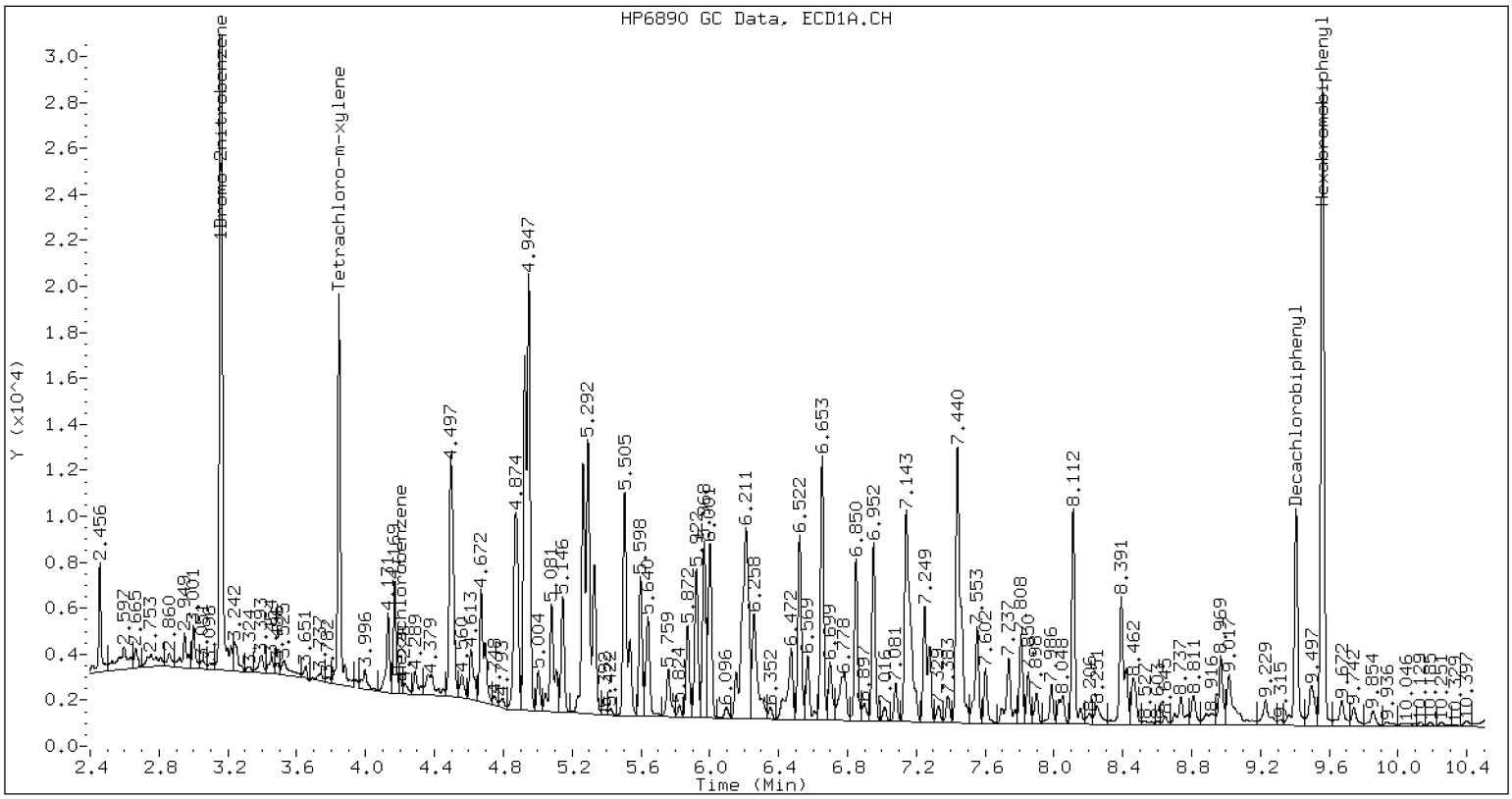
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	672426	1037344	54.3
Hexabromobiphenyl	609723	764546	25.4

Column 2

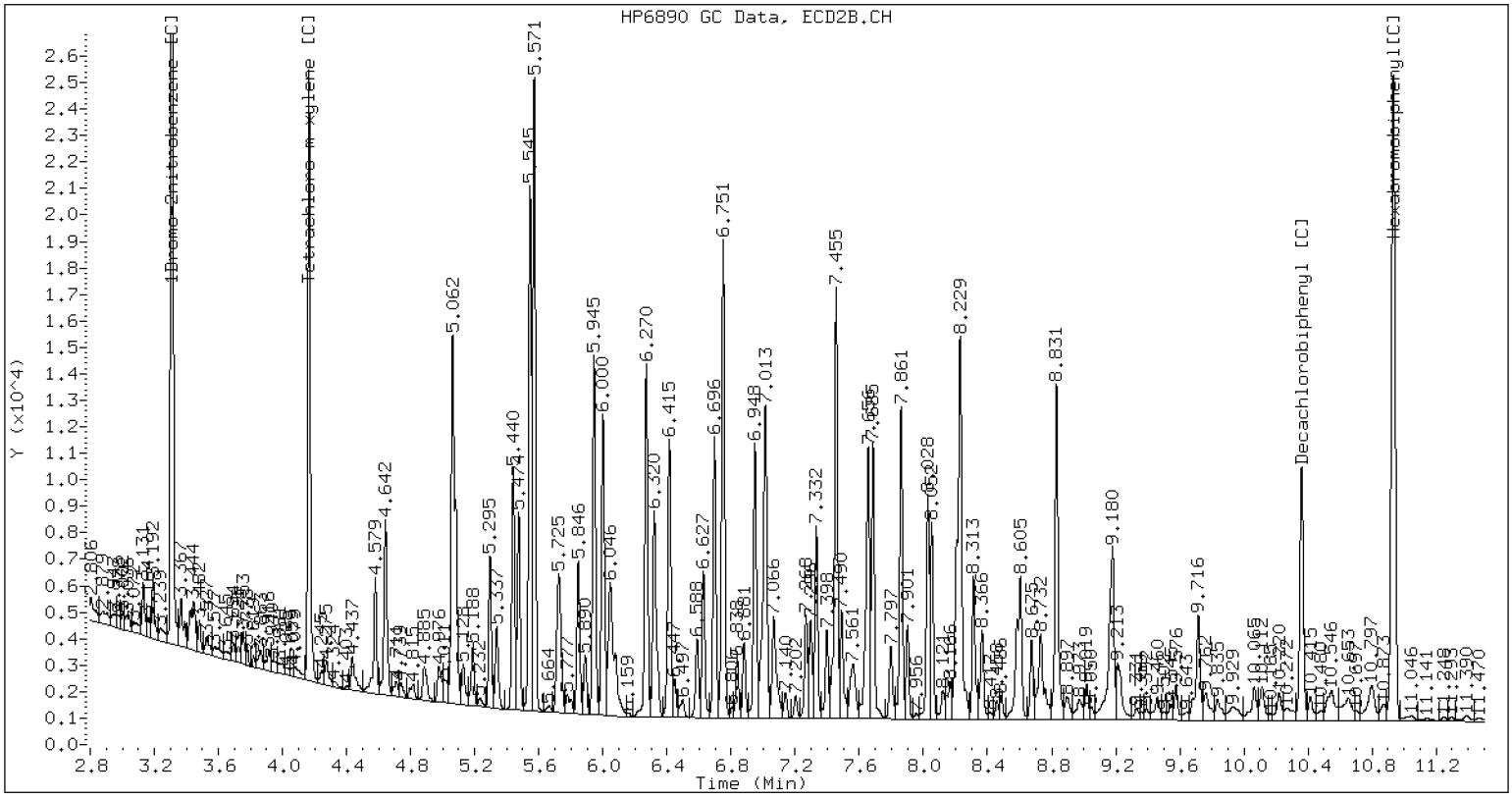
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1006482	1364797	35.6
Hexabromobiphenyl	769764	831014	8.0

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

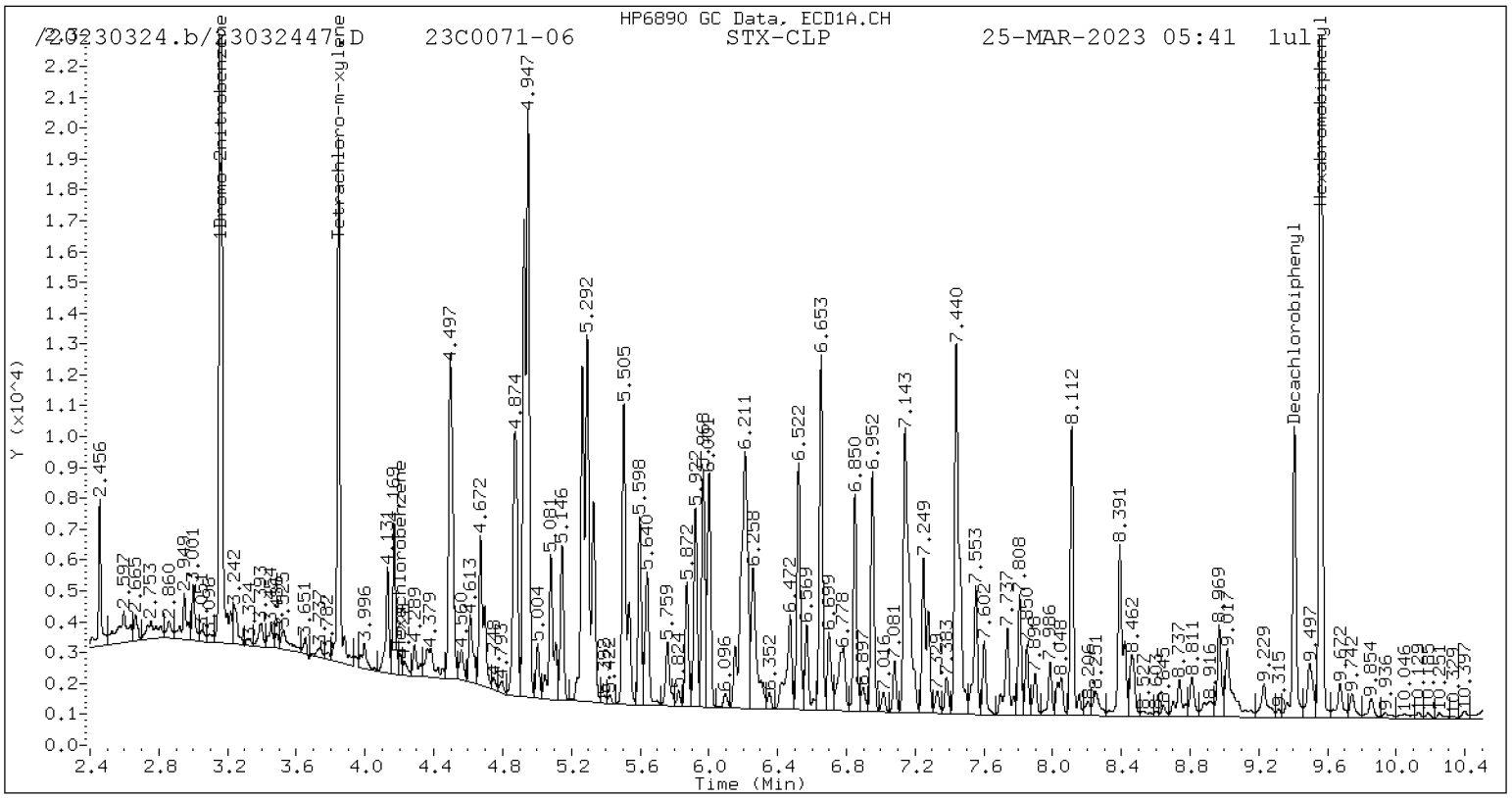
/20230324.b/23032447.D 23C0071-06 STX-CLP 25-MAR-2023 05:41 1ul



/20230324.b/B20230324.b/23032447.D 23C0071-06 CLP2 25-MAR-2023 05:41 1ul

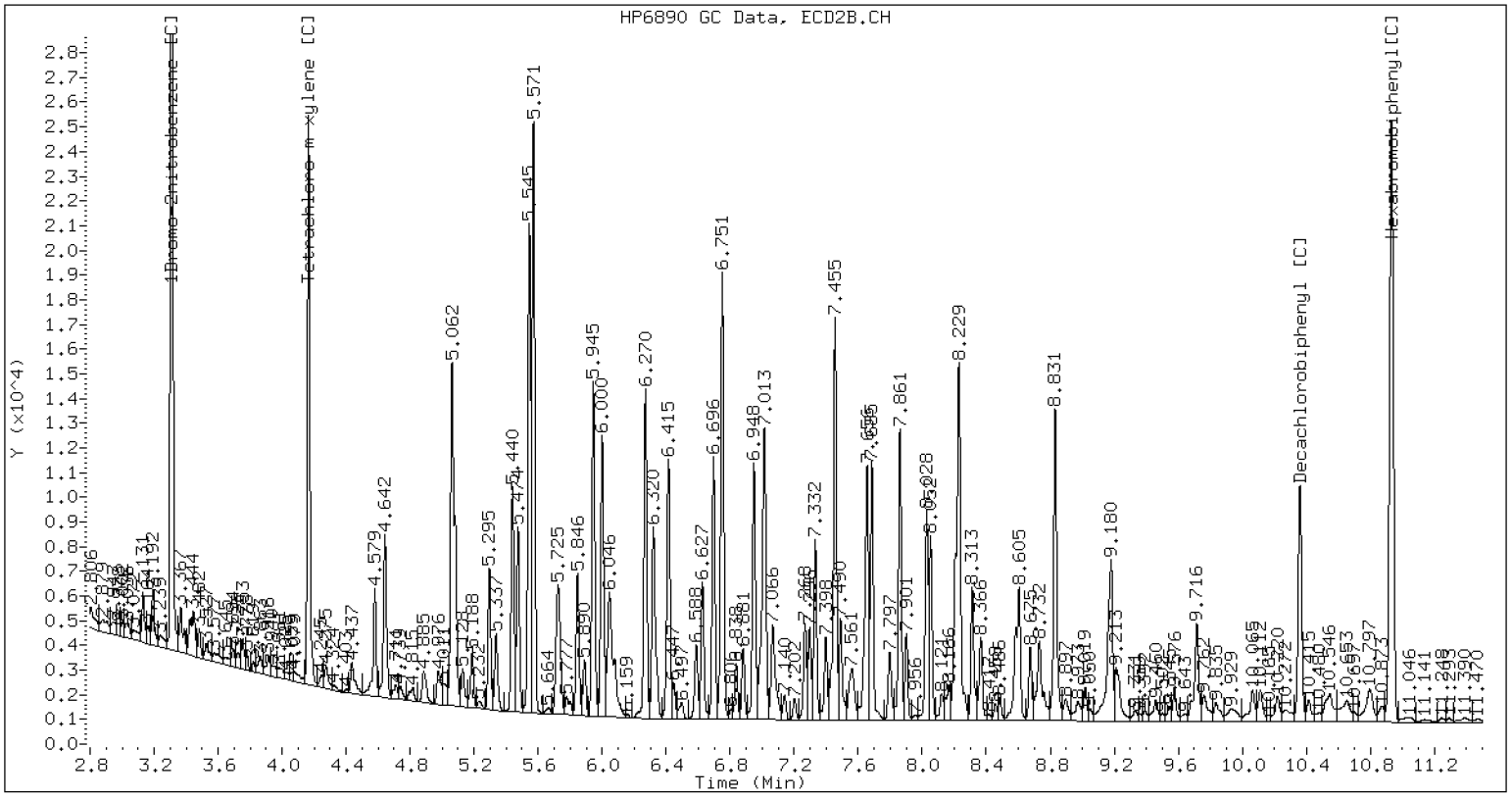


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: YES

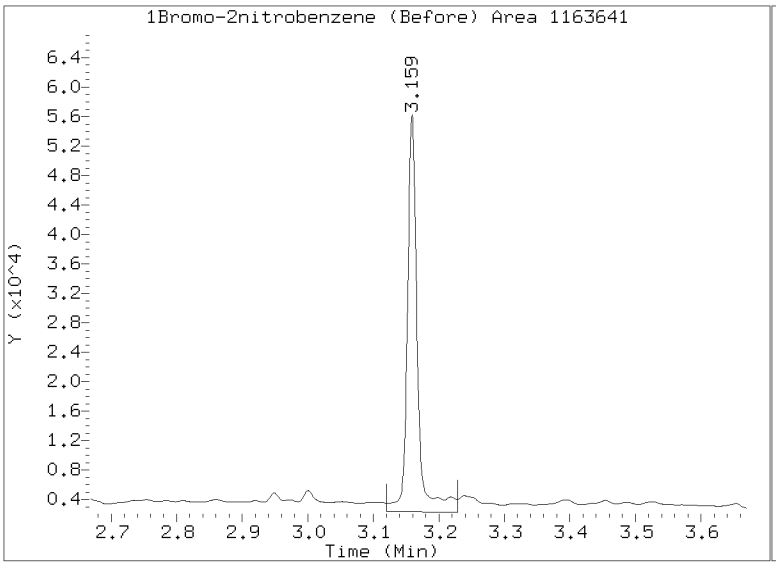
/20230324.b/B20230324.b/23032447.D 23C0071-06 CLP2

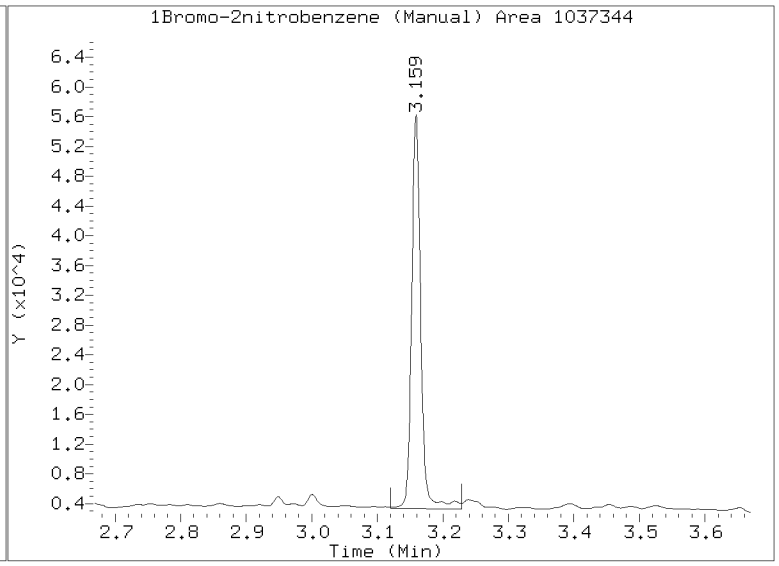


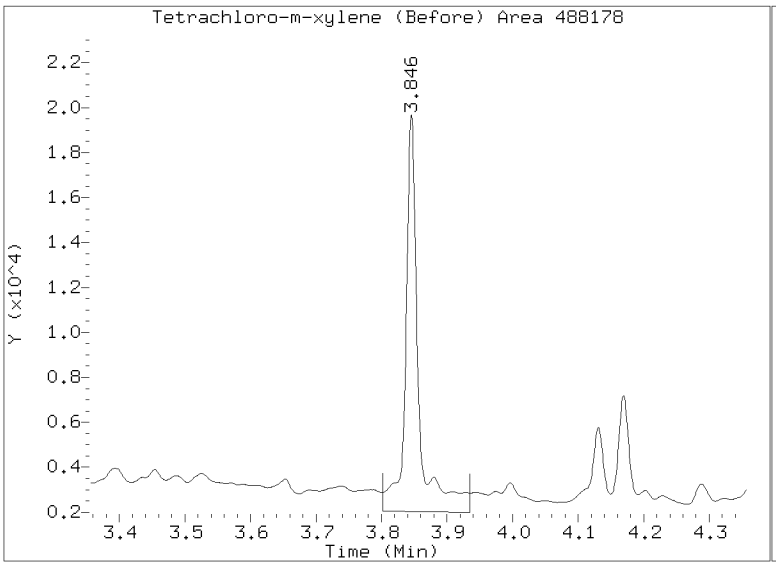
CLP-2 Manual Integration: NO

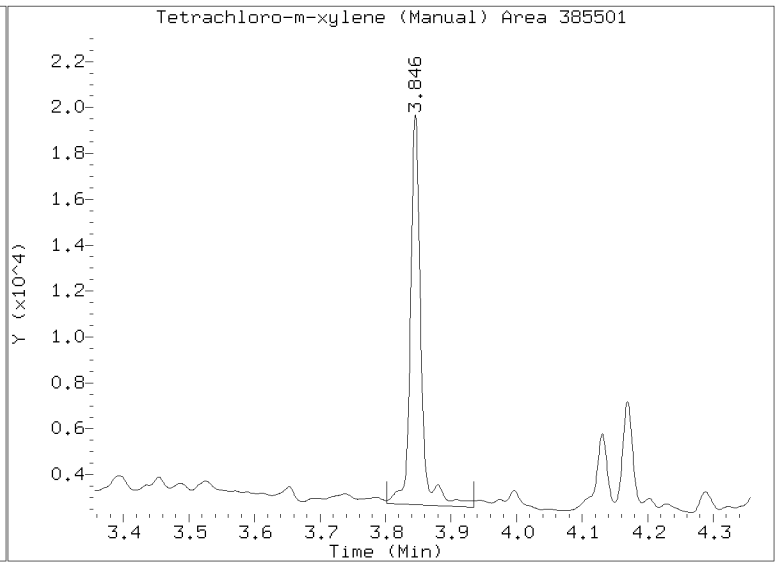
Manual Peak Adjustment Report, STX-CLP

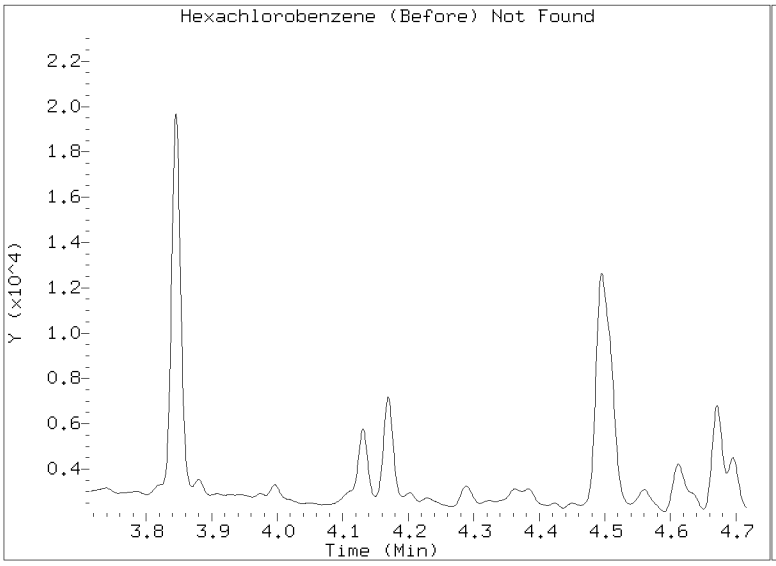
Datafile: /20230324.b/23032447.D
Injection Date: 25-MAR-2023 05:41
Lab ID:23C0071-06 Client ID:
Report Date: 03/28/2023 10:51

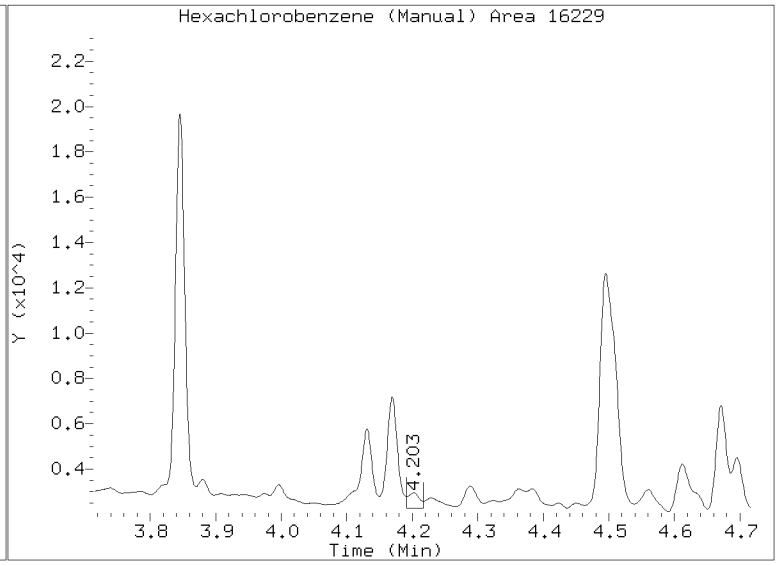












PREPARATION BATCH SUMMARY

EPA 8081B

Laboratory: Analytical Resources, LLC SDG: 23C0071

Client: Anchor QEA, LLC Project: AOC5 MR Phase 1

Batch: BLC0107 Batch Matrix: Solid Preparation: EPA 3546 (Microwave)

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW23-SS1000	23C0071-01	23032442.D	03/06/23 13:27	
LDW23-SS1037	23C0071-02	23032443.D	03/06/23 13:27	
LDW23-SS1036	23C0071-03	23032444.D	03/06/23 13:27	
LDW23-SS1044	23C0071-04	23032445.D	03/06/23 13:27	
LDW23-SS1048	23C0071-05	23032446.D	03/06/23 13:27	
LDW23-SS1054	23C0071-06	23032447.D	03/06/23 13:27	
Blank	BLC0107-BLK1	23032439.D	03/06/23 13:27	
LCS	BLC0107-BS1	23032440.D	03/06/23 13:27	
LCS Dup	BLC0107-BSD1	23032441.D	03/06/23 13:27	
LDW23-SS1054	BLC0107-MS1	23032448.D	03/06/23 13:27	
LDW23-SS1054	BLC0107-MSD1	23032449.D	03/06/23 13:27	

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BLC0107

Prepared using: EPA 3546 (Microwave)

8081B Pest (PSDDA) in Solid (Version:HCB Only)

Matrix: Solid Date Prepared: 03/06/23 Balance ID: B14646214 Set Up By: CRO 3/6/23

WO Comments

23C0071: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM I009127 PCB RM J006840-43, 7935-36,K011477-79, MS/MSD </E>
<H>BPR J006840-43, 7935-36, K011477-79, Dup </H> Store in freezer (except GS)

The following standards may be missing from this batch!

Designator	Description
62	Toxaphene
44	WND
QLS 10	QLS Spike

Analysis: 8081B Pest (PSDDA)

Lab Number & Container	% Solids	Initial (g) Target Dry: 12.5 (Wet)	Actual	(REQ) GPC (1:1) 1 2 3	(Yes / No) Acid Clean 5mL	(REQ) Sulfur C/U 4.5mL+0.5 mL ~~Ethyl~~ Acetate	(REQ) Silica Gel C/U (2:5)	Final Effective Vol (mL)	Vol (mL) to Lab	Extraction Comments
23C0071-01 A	46.2	(27.03)	27.14	(1:1)	5mL	5mL	(2:5) 2mL	2.5	1.0	
23C0071-02 A	50.8	(24.63)	24.67	(1:1)	5mL	5mL	(2:5) 2mL	2.5	1.0	
23C0071-03 A	47.6	(26.28)	26.34	(1:1)	5mL	5mL	(2:5) 2mL	2.5	1.0	
23C0071-04 A	47.8	(26.16)	26.22	(1:1)	5mL	5mL	(2:5) 2mL	2.5	1.0	
23C0071-05 A	50.0	(25.00)	25.07	(1:1)	5mL	5mL	(2:5) 2mL	2.5	1.0	
23C0071-06 A	50.4	(24.79)	24.79	(1:1)	5mL	5mL	(2:5) 2mL	2.5	1.0	

Batch QC

Lab Number	% Solids	Initial (g) Target Dry: 12.5 (Wet)	Actual	(REQ) GPC (1:1) 1 2 3	(Yes / No) Acid Clean 5mL	(REQ) Sulfur C/U 4.5mL+0.5 mL ~~Ethyl~~ Acetate	(REQ) Silica Gel C/U (2:5)	Final Effective Vol (mL)	Vol (mL) to Lab	Extraction Comments
BLC0107-BLK1	100.0	(12.50)	12.50	(1:1)	5mL	5mL	(2:5) 2mL	2.5	1.0	
BLC0107-BS1	100.0	(12.50)	12.50	(1:1)	5mL	5mL	(2:5) 2mL	2.5	1.0	
BLC0107-BSD1	100.0	(12.50)	12.50	(1:1)	5mL	5mL	(2:5) 2mL	2.5	1.0	
BLC0107-MS1	50.4	(24.79)	24.79	(1:1)	5mL	5mL	(2:5) 2mL	2.5	1.0	Use 23C0071-06
BLC0107-MSD1	50.4	(24.79)	24.79	(1:1)	5mL	5mL	(2:5) 2mL	2.5	1.0	Use 23C0071-06

03/06/23
Client ID Verified By Date

3/14/23
Preparation Reviewed By Date

03/06/23 13:27
Extraction Date and Time

Printed: 3/6/2023 9:53:34AM

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BLC0107

Prepared using: EPA 3546 (Microwave)

8081B Pest (PSDDA) in Solid (Version:HCB Only)

WO Comments

23C0071: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM I009127 PCB RM J006840-43, 7935-36,K011477-79, MS/MSD </E>
<H>BPR J006840-43, 7935-36, K011477-79, Dup </H> Store in freezer (except GS)

Prep Steps

Microwave
1 2 3
3/6/23 CJ
Analyst/Date

Pre GPC KD
100°C
(No Exchange)
3 4 5 6
LD 3-9
Analyst/Date

TurboVap
Pre GPC
1 2 3 4 5
CJ 3/9/23
Analyst/Date

Post GPC KD
80 - 85°C
Hexane Exchange
(2 X 20 mL)
100°C
1 2 3 4 5 6
LD 3-13
Analyst/Date

TurboVap
Pre-Cleanups
1 2 3 4 5
ZH 3/13/23
Analyst/Date

TurboVap
Post-Cleanups
1 2 3 4 5
ZH 3/14/23
Analyst/Date

Vialing
ZH 3/14/23
Analyst/Date

Reagents Used

Station/Reagent	Standard ID
Microwave Analyst: CJ Date: 03/06/23	
Hexane	L000883
80:20 Hexane/Acetone	L001221
1:1 Hexane/Acetone	L001751
Neutral Glass Wool	L000354
Anhydrous Sodium Sulfate	L000211
Pre GPC KD Analyst: LD Date: 3-8-23	
Hexane	L000889
Anhydrous Sodium Sulfate	
Neutral Glass Wool	
GPC Filter Prep Analyst: CJ Date: 3/9/23	
Methylene Chloride	I000158
GPC Filter	L001749
GPC Analyst: NKS Date: 3/9/23	
Methylene Chloride	I000158
GPC Calibration File	CIB0132
Post GPC KD Analyst: LD Date: 3-13-23	
Methylene Chloride	I000941
Hexane	L000939
Vialing Analyst: ZH Date: 3/14/23	
Hexane	L000889
Sulfuric Acid	L001033
~~Ethyl Acetate~~	
Tetrabutylammonium hydrogensulfate (TBAS)	L002438
Sodium Sulfite	L002437
Silica Gel (SPE) Darts	L002256

Surrogates & Spike Standards Used

Type	Vial ID / Standard ID	Vol uL	Analyst	Witness
Surrogate 2µg/mL	N L000773 (V) Exp Date: 7/21/2023	50µL	CJ	
Spike (Freezer) 0.5/1/5µg/mL	3 K011471 (V) Exp Date: 6/14/2023	100µL	CJ	

MANUALLY ENTER EXPIRATION DATES!

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

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

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BLC0107

Prepared using: EPA 3546 (Microwave)

8081B Pest (PSDDA) in Solid (Version:HCB Only)

WO Comments

23C0071: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM I009127 PCB RM J006840-43, 7935-36,K011477-79, MS/MSD </E>
<H>BPR J006840-43, 7935-36, K011477-79, Dup </H> Store in freezer (except GS)

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BLC0107

Prepared using: EPA 3546 (Microwave)

8081B Pest (PSDDA) in Solid (Version:HCB Only)

WO Comments

23C0071: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM I009127 PCB RM J006840-43, 7935-36,K011477-79, MS/MSD </E>
<H>BPR J006840-43, 7935-36, K011477-79, Dup </H> Store in freezer (except GS)

Prep Instructions	
SPECIAL INSTRUCTIONS: 1. Weigh into beakers-lightly dry with Sodium Sulfate. 2. Transfer to microwave vessels. 3. Add 1:1 Hex/ACE to the vessels (until solvent is 3" above soil layer after homogenization). 4. Add surr/spike. 5. Microwave on appropriate power setting determined by # of samples. 6. After microwave-re-homogenize while hot then let cool 15 min in cold water. Re-homogenize while cool. 7. Decant 1:1 Hex/ACE into Erlenmeyer flask using a funnel containing neutral glasswool. 8. Rinse with Hexane. 9. Microwave a 2nd time using 8:2 Hex/Ace (until solvent is 3" above soil layer after homogenization). 10. Let cool and decant the solvent then empty the soil into the funnel and rinse with Hexane. 11. KD to 5mL at 100°C. (NO HEXANE EXCHANGE). 12. TurboVap 13. GPC 14. After GPC: KD at 80 - 85°C 15. Exchange to Hexane at 100°C 2 x 20 mL). 16. TurboVap. 17. Cleanups, If Acid cleaning do not add Ethyl Acetate for Sulfur Clean. Do Not Acid Clean if Acid liable compounds are requested. 18. Vial in Hexane. A. Need Total Solids Y [N] B. Archive/Freeze [Y] N	

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Laboratory Analyst Notes

Extraction Parameter: PEST Extraction Batch BLC0107

Total Solids Batch: BLC0085 Work Order(s): 23C0071

Screens: Soil/Sediment/Solid/Other:	Analyst/Date
☒ No Anomalies (standard soil/wet sediment/sand/gravel)= 01-06, 08-10	CR 3/31/23
☒ Standing Water Decanted (Not shared)= 01-06, 08-10	CR 3/31/23
☐ Standing Water Homogenized (Shared samples)=	
☐ Clay/Clumps (Difficult to homogenize)=	
☐ Rocks (%+size)?	
☐ Organics (Leaves/sticks/grass)=	
☐ Oily, obvious fuel/sulfur odors=	
☐ Received in 32oz jar(s)=Homogenized in Pyrex dish=	
☒ Previously Frozen = 01-06, 08-10	CR 3/31/23
☐ Other (Details)=	
Aqueous:	
☐ No Anomalies	
☐ Turbid/Color=	
☐ Particulates(%)=(Note: >5%=Notify Supervisor/Lead)	
☐ Emulsions (%)=	
☐ Oily, obvious fuel/sulfur odors=	
☐ Other (Details)=	
☐ Received in 1.0L Bottle(s)=No Bottle Rinse=	
☐ Other Notes/Comments= (Note problems, concerns, corrective actions).	
☒ Share Samples (Y) / N 01-06, 08-10	CR 3/31/23
☒ Multiple Jars Y / (N)	CR 3/31/23
☐ Sample Pre-Screens indicate analyte activity=	
☐ Sample weights/volumes reduced based on Pre-Screen=	

BLC0043

Date:2023-03-10,5:13:27 AM
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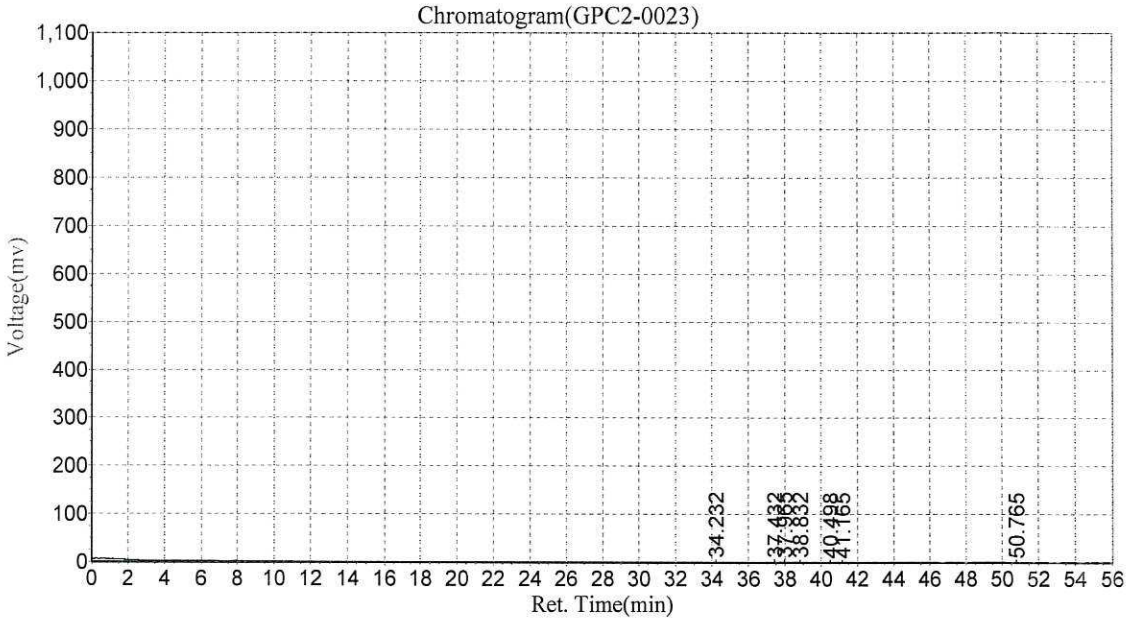
Method File:E:\GPC2_InHouse.mtd

Analyst£°SH
Date/Time2023-03-10,5:13:28 AM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		34.232	3755.111	309506.156	22.5247
2		37.432	4010.444	286353.000	20.8397
3		37.965	4208.667	160730.797	11.6974
4		38.832	3149.778	181062.781	13.1771
5		40.498	2518.222	179326.703	13.0508
6		41.165	2532.000	126780.898	9.2267
7		50.765	1914.000	130311.367	9.4836
Total			22088.222	1374071.703	100.000

Ingredient Table

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

607 · B51

BLC0043

Date:2023-03-10,6:11:09 AM
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Method File:E:\GPC2_InHouse.mtd

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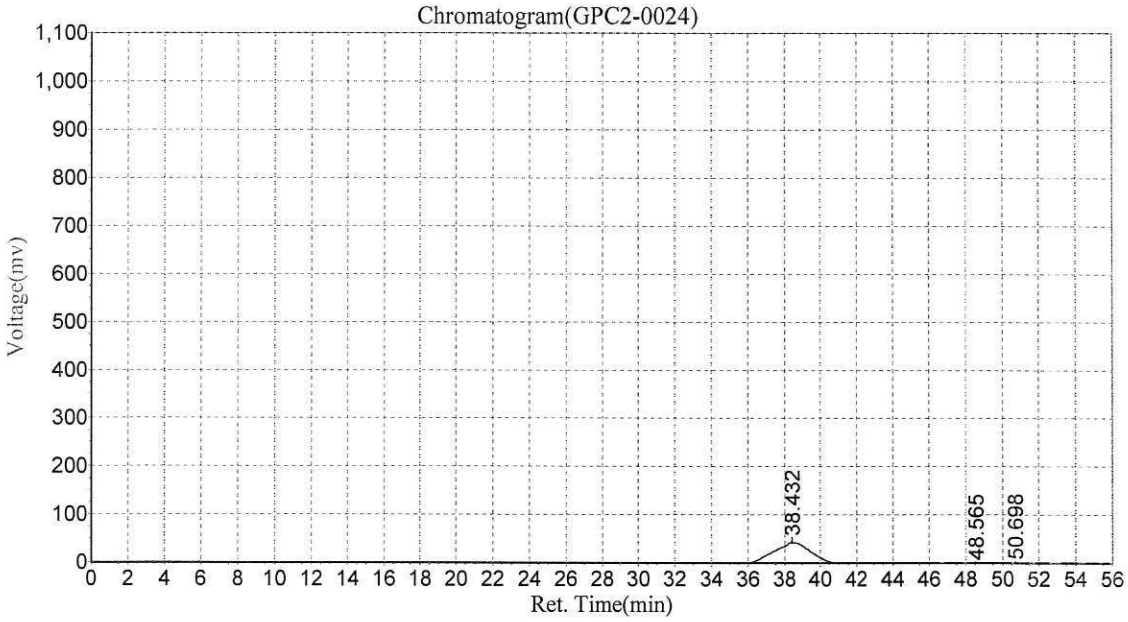
Date/Time2023-03-10,6:11:09 AM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		38.432	52258.855	9531275.000	96.7807
2		48.565	1447.736	124166.063	1.2608
3		50.698	1914.377	192879.563	1.9585
Total			55620.969	9848320.625	100.000

Ingredient Table

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

BLC0043

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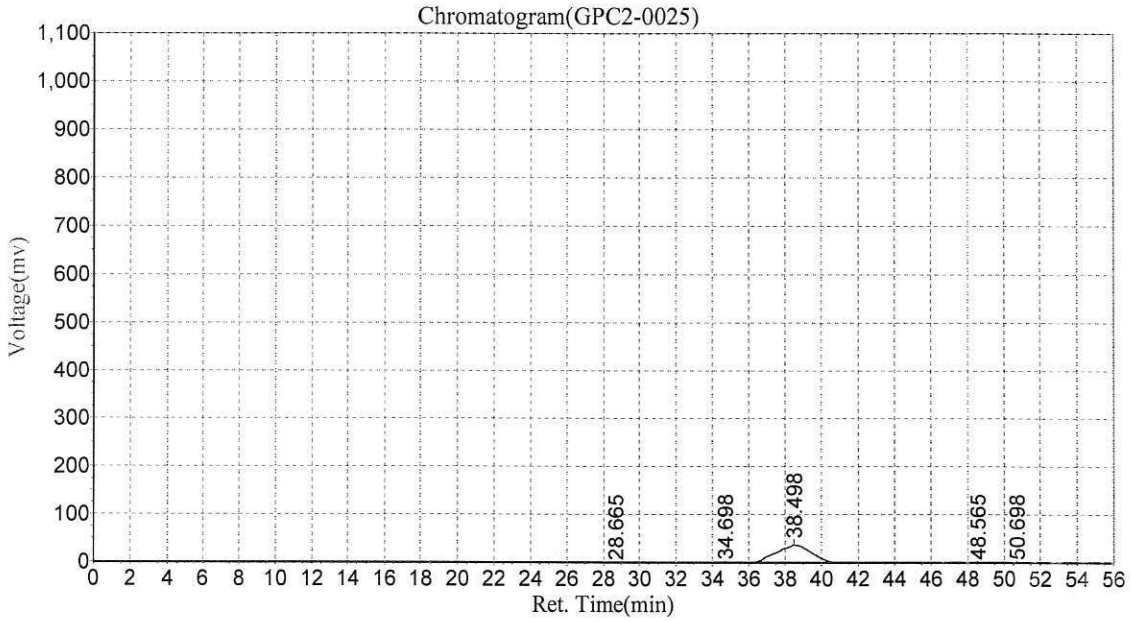

Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		28.665	2615.146	151268.000	1.6811
2		34.698	2743.661	160132.438	1.7796
3		38.498	46890.922	8345608.500	92.7452
4		48.565	1785.394	175837.313	1.9541
5		50.698	1844.042	165577.234	1.8401
Total			55879.165	8998423.484	100.000

Ingredient Table

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

BLC0043

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Analyst£°SH
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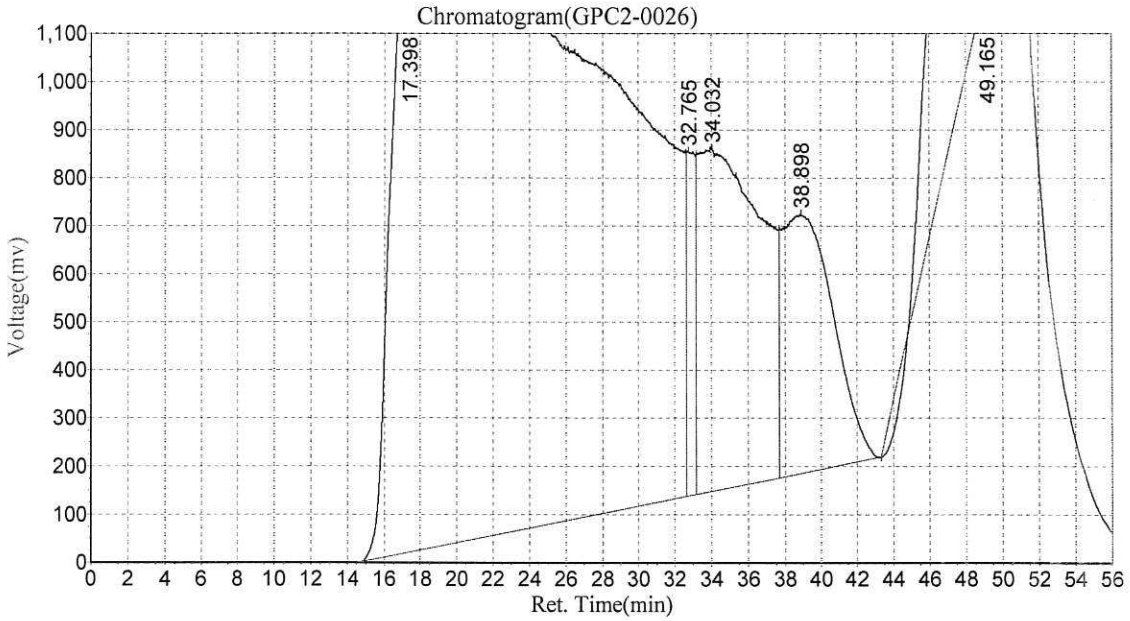

Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		17.398	1231798.000	1027391296.000	73.6276
2		32.765	716936.250	21380416.000	1.5322
3		34.032	712158.313	170519888.000	12.2202
4		38.898	537696.375	104619592.000	7.4975
5		49.165	45643.660	71476840.000	5.1224
Total			3244232.598	1395388032.000	100.000

Ingredient Table

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

BLC0043

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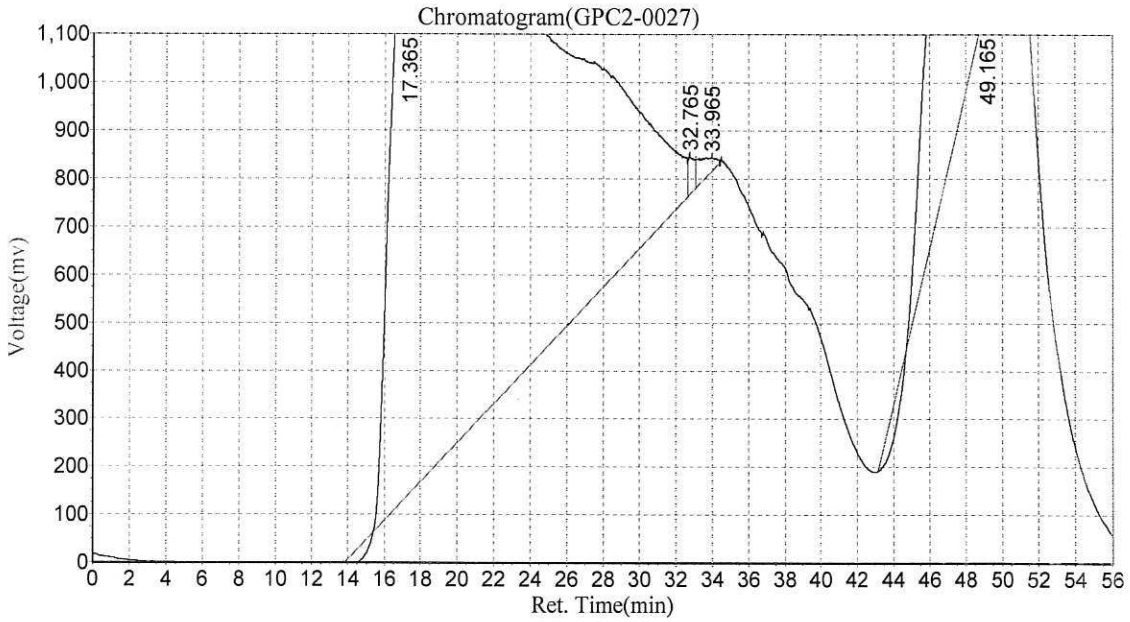

Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		17.365	1111174.000	675111808.000	88.6175
2		32.765	83629.500	1875114.750	0.2461
3		33.965	29494.500	2860886.500	0.3755
4		49.165	87395.320	81979176.000	10.7609
Total			1311693.320	761826985.250	100.000

Ingredient Table

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

BLC0043

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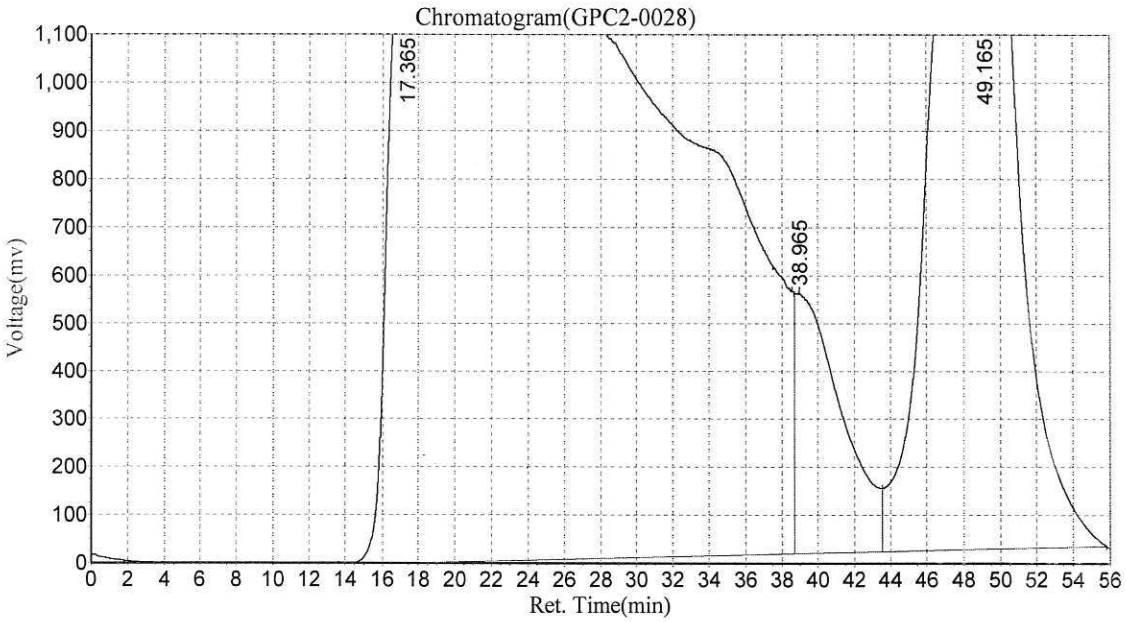

Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		17.365	1253494.000	1405229568.000	71.8714
2		38.965	542806.813	95901936.000	4.9050
3		49.165	1222051.000	454068064.000	23.2236
Total			3018351.813	1955199568.000	100.000

Ingredient Table

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

BLC0043

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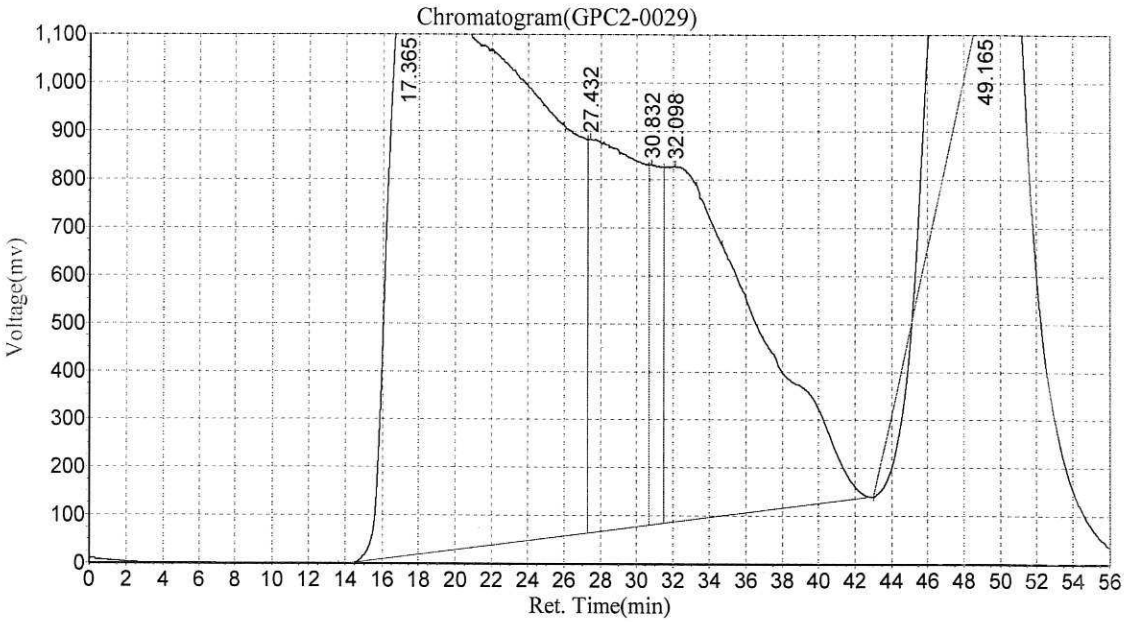

Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		17.365	1237338.125	703605120.000	57.8866
2		27.432	818820.000	160336640.000	13.1911
3		30.832	749940.938	35787956.000	2.9443
4		32.098	740496.688	256785472.000	21.1261
5		49.165	47048.453	58972672.000	4.8518
Total			3593644.203	1215487860.000	100.000

Ingredient Table

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

BLC0043

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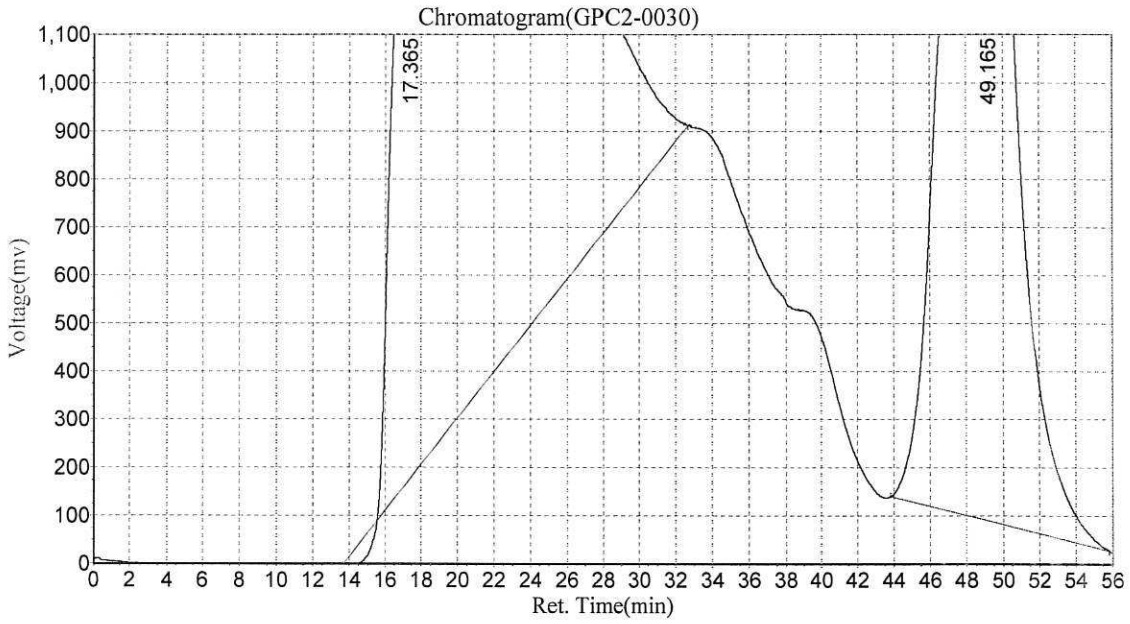

Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		17.365	1078298.250	659493696.000	62.3004
2		49.165	1162938.750	399077056.000	37.6996
Total			2241237.000	1058570752.000	100.000

Ingredient Table

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

BLC0043

Date:2023-03-10,12:55:14 PM
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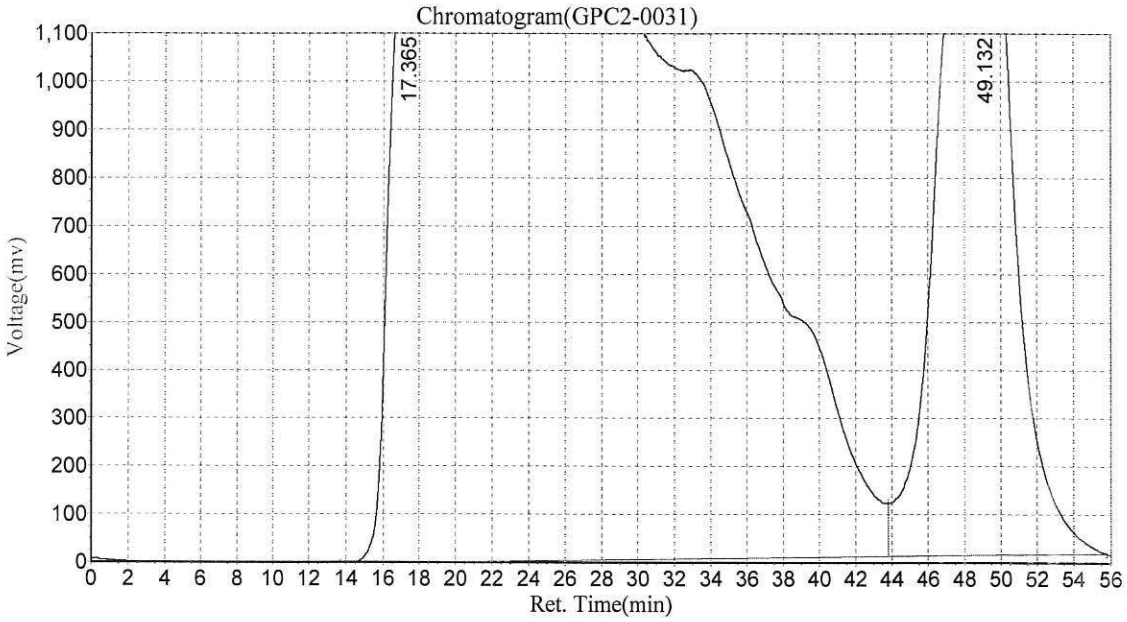
Date/Time2023-03-10,12:55:15 PM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		17.365	1254255.875	1564490752.000	79.8422
2		49.132	1236619.000	394988480.000	20.1578
Total			2490874.875	1959479232.000	100.000

Ingredient Table

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

71-5

BLC0043

Date:2023-03-10,1:52:55 PM
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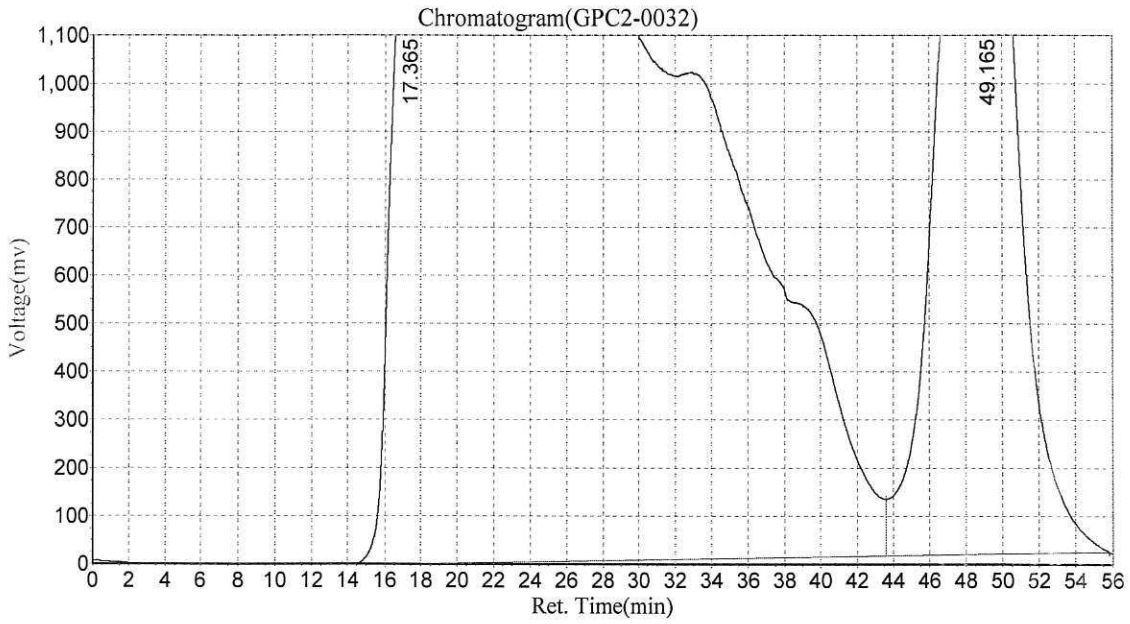
Method File:E:\GPC2_InHouse.mtd

Analyst£°SH
Date/Time2023-03-10,1:52:56 PM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		17.365	1253909.125	1564436480.000	78.3272
2		49.165	1231275.000	432871552.000	21.6727
Total			2485184.125	1997308032.000	100.000

Ingredient Table

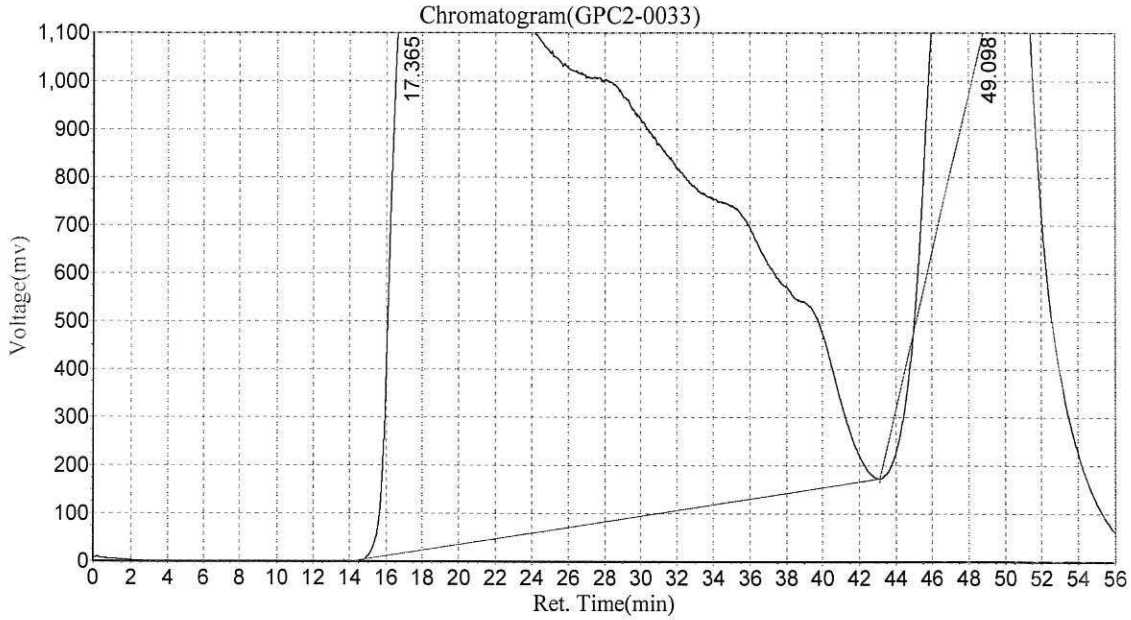
No	Peak ID	Ret Time	Peak Width	Factor1	Factor2	ISTD Wt.
1	Collect Pest	29.000	0.010	0.00E+000	0.00E+000	0.0000
2	Dump Pest	46.000	0.010	0.00E+000	0.00E+000	0.0000
3	Dump BAN	48.000	0.010	0.00E+000	0.00E+000	0.0000
4	Collect BAN	24.000	0.010	0.00E+000	0.00E+000	0.0000

A1-6

BLC0043

Date:2023-03-10,2:50:38 PM
Data File:c:\n2000\data\gpc2\030623\GPC2-0033
Method File:E:\GPC2_InHouse.mtd

Analyst£°SH
Date/Time2023-03-10,2:50:39 PM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		17.365	1234770.625	1265726848.000	94.4442
2		49.098	109162.750	74458288.000	5.5558
Total			1343933.375	1340185136.000	100.000

Ingredient Table

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

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BATCH SUMMARY

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Cleanup Batch:	CLC0109	Cleanup Type:	Sulfuric Acid
Cleanup Method:	EPA 3665 Sulfuric Acid Cleanup - uL	Analysis:	EPA 8081B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW23-SS1036	23C0071-03	23032444.D	03/14/2023	
LDW23-SS1044	23C0071-04	23032445.D	03/14/2023	
Matrix Spike	BLC0107-MS1	23032448.D	03/14/2023	
LCS Dup	BLC0107-BSD1	23032441.D	03/14/2023	
LCS	BLC0107-BS1	23032440.D	03/14/2023	
Blank	BLC0107-BLK1	23032439.D	03/14/2023	
LDW23-SS1048	23C0071-05	23032446.D	03/14/2023	
LDW23-SS1054	23C0071-06	23032447.D	03/14/2023	
LDW23-SS1037	23C0071-02	23032443.D	03/14/2023	
LDW23-SS1000	23C0071-01	23032442.D	03/14/2023	
Matrix Spike Dup	BLC0107-MSD1	23032449.D	03/14/2023	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BENCH SHEET

CLC0109

Matrix: Solid **Cleanup using: Organics - EPA 3665 Sulfuric Acid Cleanup - uL** **Printed: 3/14/2023 1:09:09PM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
23C0071-01	A	LDW23-SS1000	A 01	2.5	2.5	8081B Pest (PSDDA)	3/14/2023	ZH	
23C0071-02	A	LDW23-SS1037	A 01	2.5	2.5	8081B Pest (PSDDA)	3/14/2023	ZH	
23C0071-03	A	LDW23-SS1036	A 01	2.5	2.5	8081B Pest (PSDDA)	3/14/2023	ZH	
23C0071-04	A	LDW23-SS1044	A 01	2.5	2.5	8081B Pest (PSDDA)	3/14/2023	ZH	
23C0071-05	A	LDW23-SS1048	A 01	2.5	2.5	8081B Pest (PSDDA)	3/14/2023	ZH	
23C0071-06	A	LDW23-SS1054	A 01	2.5	2.5	8081B Pest (PSDDA)	3/14/2023	ZH	
BLC0107-BLK1	-	Blank	-	2.5	2.5	-	3/14/2023	ZH	
BLC0107-BS1	-	LCS	-	2.5	2.5	-	3/14/2023	ZH	
BLC0107-BSD1	-	LCS Dup	-	2.5	2.5	-	3/14/2023	ZH	
BLC0107-MS1	-	Matrix Spike	-	2.5	2.5	-	3/14/2023	ZH	
BLC0107-MSD1	-	Matrix Spike Dup	-	2.5	2.5	-	3/14/2023	ZH	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BATCH SUMMARY

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Cleanup Batch:	CLC0110	Cleanup Type:	Sulfur
Cleanup Method:	EPA 3660B Sulfur Cleanup - uL	Analysis:	EPA 8081B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LCS Dup	BLC0107-BSD1	23032441.D	03/14/2023	
LDW23-SS1054	23C0071-06	23032447.D	03/14/2023	
Matrix Spike Dup	BLC0107-MSD1	23032449.D	03/14/2023	
Matrix Spike	BLC0107-MS1	23032448.D	03/14/2023	
LCS	BLC0107-BS1	23032440.D	03/14/2023	
Blank	BLC0107-BLK1	23032439.D	03/14/2023	
LDW23-SS1000	23C0071-01	23032442.D	03/14/2023	
LDW23-SS1036	23C0071-03	23032444.D	03/14/2023	
LDW23-SS1037	23C0071-02	23032443.D	03/14/2023	
LDW23-SS1048	23C0071-05	23032446.D	03/14/2023	
LDW23-SS1044	23C0071-04	23032445.D	03/14/2023	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BENCH SHEET

CLC0110

Matrix: Solid **Cleanup using: Organics - EPA 3660B Sulfur Cleanup - uL** **Printed: 3/14/2023 1:09:53PM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
23C0071-01	A	LDW23-SS1000	A 01	2.5	2.5	8081B Pest (PSDDA)	3/14/2023	ZH	
23C0071-02	A	LDW23-SS1037	A 01	2.5	2.5	8081B Pest (PSDDA)	3/14/2023	ZH	
23C0071-03	A	LDW23-SS1036	A 01	2.5	2.5	8081B Pest (PSDDA)	3/14/2023	ZH	
23C0071-04	A	LDW23-SS1044	A 01	2.5	2.5	8081B Pest (PSDDA)	3/14/2023	ZH	
23C0071-05	A	LDW23-SS1048	A 01	2.5	2.5	8081B Pest (PSDDA)	3/14/2023	ZH	
23C0071-06	A	LDW23-SS1054	A 01	2.5	2.5	8081B Pest (PSDDA)	3/14/2023	ZH	
BLC0107-BLK1	-	Blank	-	2.5	2.5	-	3/14/2023	ZH	
BLC0107-BS1	-	LCS	-	2.5	2.5	-	3/14/2023	ZH	
BLC0107-BSD1	-	LCS Dup	-	2.5	2.5	-	3/14/2023	ZH	
BLC0107-MS1	-	Matrix Spike	-	2.5	2.5	-	3/14/2023	ZH	
BLC0107-MSD1	-	Matrix Spike Dup	-	2.5	2.5	-	3/14/2023	ZH	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BATCH SUMMARY

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Cleanup Batch:	CLC0111	Cleanup Type:	Silica Gel
Cleanup Method:	EPA 3630C Silica Gel Cleanup - uL	Analysis:	EPA 8081B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	BLC0107-BLK1	23032439.D	03/14/2023	
LCS	BLC0107-BS1	23032440.D	03/14/2023	
LCS Dup	BLC0107-BSD1	23032441.D	03/14/2023	
Matrix Spike	BLC0107-MS1	23032448.D	03/14/2023	
LDW23-SS1048	23C0071-05	23032446.D	03/14/2023	
LDW23-SS1000	23C0071-01	23032442.D	03/14/2023	
LDW23-SS1037	23C0071-02	23032443.D	03/14/2023	
LDW23-SS1044	23C0071-04	23032445.D	03/14/2023	
Matrix Spike Dup	BLC0107-MSD1	23032449.D	03/14/2023	
LDW23-SS1054	23C0071-06	23032447.D	03/14/2023	
LDW23-SS1036	23C0071-03	23032444.D	03/14/2023	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BENCH SHEET

CLC0111

Matrix: Solid **Cleanup using: Organics - EPA 3630C Silica Gel Cleanup - uL** **Printed: 3/14/2023 1:10:27PM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
23C0071-01	A	LDW23-SS1000	A 01	2.5	2.5	8081B Pest (PSDDA)	3/14/2023	ZH	
23C0071-02	A	LDW23-SS1037	A 01	2.5	2.5	8081B Pest (PSDDA)	3/14/2023	ZH	
23C0071-03	A	LDW23-SS1036	A 01	2.5	2.5	8081B Pest (PSDDA)	3/14/2023	ZH	
23C0071-04	A	LDW23-SS1044	A 01	2.5	2.5	8081B Pest (PSDDA)	3/14/2023	ZH	
23C0071-05	A	LDW23-SS1048	A 01	2.5	2.5	8081B Pest (PSDDA)	3/14/2023	ZH	
23C0071-06	A	LDW23-SS1054	A 01	2.5	2.5	8081B Pest (PSDDA)	3/14/2023	ZH	
BLC0107-BLK1	-	Blank	-	2.5	2.5	-	3/14/2023	ZH	
BLC0107-BS1	-	LCS	-	2.5	2.5	-	3/14/2023	ZH	
BLC0107-BSD1	-	LCS Dup	-	2.5	2.5	-	3/14/2023	ZH	
BLC0107-MS1	-	Matrix Spike	-	2.5	2.5	-	3/14/2023	ZH	
BLC0107-MSD1	-	Matrix Spike Dup	-	2.5	2.5	-	3/14/2023	ZH	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BATCH SUMMARY

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Cleanup Batch:	CLC0112	Cleanup Type:	GPC
Cleanup Method:	EPA 3640A GPC Cleanup 1:1	Analysis:	EPA 8081B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	BLC0107-BLK1	23032439.D	03/14/2023	
LCS Dup	BLC0107-BSD1	23032441.D	03/14/2023	
Matrix Spike Dup	BLC0107-MSD1	23032449.D	03/14/2023	
Matrix Spike	BLC0107-MS1	23032448.D	03/14/2023	
LDW23-SS1054	23C0071-06	23032447.D	03/14/2023	
LDW23-SS1048	23C0071-05	23032446.D	03/14/2023	
LDW23-SS1044	23C0071-04	23032445.D	03/14/2023	
LDW23-SS1037	23C0071-02	23032443.D	03/14/2023	
LDW23-SS1036	23C0071-03	23032444.D	03/14/2023	
LDW23-SS1000	23C0071-01	23032442.D	03/14/2023	
LCS	BLC0107-BS1	23032440.D	03/14/2023	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BENCH SHEET

CLC0112

Matrix: Solid **Cleanup using: Organics - EPA 3640A GPC Cleanup 1:1** **Check Standard: CLB0132-GPC2** **Printed: 3/14/2023 1:11:16PM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
23C0071-01	A	LDW23-SS1000	A 01	2.5	2.5	8081B Pest (PSDDA)	3/14/2023	ZH	
23C0071-02	A	LDW23-SS1037	A 01	2.5	2.5	8081B Pest (PSDDA)	3/14/2023	ZH	
23C0071-03	A	LDW23-SS1036	A 01	2.5	2.5	8081B Pest (PSDDA)	3/14/2023	ZH	
23C0071-04	A	LDW23-SS1044	A 01	2.5	2.5	8081B Pest (PSDDA)	3/14/2023	ZH	
23C0071-05	A	LDW23-SS1048	A 01	2.5	2.5	8081B Pest (PSDDA)	3/14/2023	ZH	
23C0071-06	A	LDW23-SS1054	A 01	2.5	2.5	8081B Pest (PSDDA)	3/14/2023	ZH	
BLC0107-BLK1	-	Blank	-	2.5	2.5	-	3/14/2023	ZH	
BLC0107-BS1	-	LCS	-	2.5	2.5	-	3/14/2023	ZH	
BLC0107-BSD1	-	LCS Dup	-	2.5	2.5	-	3/14/2023	ZH	
BLC0107-MS1	-	Matrix Spike	-	2.5	2.5	-	3/14/2023	ZH	
BLC0107-MSD1	-	Matrix Spike Dup	-	2.5	2.5	-	3/14/2023	ZH	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I

METHOD BLANK DATA SHEET

EPA 8081B

Blank

Laboratory:	Analytical Resources, LLC			SDG:	23C0071
Client:	Anchor QEA, LLC			Project:	AOC5 MR Phase 1
Matrix:	Solid	Laboratory ID:	BLC0107-BLK1	File ID:	23032439.D
Sampled:	N/A	Prepared:	03/06/23 13:27	Analyzed:	03/25/23 03:18
Solids:		Preparation:	EPA 3546 (Microwave)	Initial/Final:	12.5 g / 2.5 mL
Batch:	BLC0107	Sequence:	SLC0442	Calibration:	FL00041
Instrument:	ECD6	Column:	STX-CLP	Cleanups:	GPC, Silica Gel, Sulfur, Sulfuric Acid

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg wet)	Q	DL	RL
118-74-1	Hexachlorobenzene	1	0.50	U	0.15	0.50

SURROGATES	ADDED: (ug/kg wet)	FOUND: (ug/kg wet)	% REC	QC LIMITS	Q
Decachlorobiphenyl	8.0000	6.98	87.2	30 - 160	
Decachlorobiphenyl [2C]	8.0000	6.94	86.8	30 - 160	
Tetrachlorometaxylene	8.0000	5.63	70.4	30 - 160	
Tetrachlorometaxylene [2C]	8.0000	5.69	71.1	30 - 160	

[2C] indicates second-column analyte, present if quantification on any batch samples used second column data.

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230324.b/23032439.D
Data file 2: /20230324.b/B20230324.b/23032439.D
Method: \20230324.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: BLC0107-BLK1
Client ID:
Injection Date: 25-MAR-2023 03:18
Report Date: 03/28/2023 10:50
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP on col	CLP2 on col	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response				
----			----			0.00	0.00	---	alpha-BHC
----			----			0.00	0.00	---	beta-BHC
----			----			0.00	0.00	---	delta-BHC
----			----			0.00	0.00	---	gamma-BHC (Lindane)
----			----			0.00	0.00	---	Heptachlor
----			----			0.00	0.00	---	Aldrin
----			----			0.00	0.00	---	Heptachlor epoxide b
----			----			0.00	0.00	---	Endosulfan I
----			----			0.00	0.00	---	Dieldrin
----			----			0.00	0.00	---	4,4'-DDE
----			----			0.00	0.00	---	Endrin
----			----			0.00	0.00	---	Endosulfan II
----			----			0.00	0.00	---	4,4'-DDD
----			----			0.00	0.00	---	Endosulfan sulfate
----			----			0.00	0.00	---	4,4'-DDT
----			----			0.00	0.00	---	Methoxychlor
----			----			0.00	0.00	---	Endrin ketone
----			----			0.00	0.00	---	Endrin aldehyde
----			----			0.00	0.00	---	trans-Chlordane
----			----			0.00	0.00	---	cis-Chlordane
----			----			0.00	0.00	---	Hexachlorobutadiene
4.208	-0.009	4548	4.658	-0.012	3761	0.46	0.26	55.0*	Hexachlorobenzene
3.849	-0.008	213049	4.168	-0.010	317730	28.15	28.45	1.0	Tetrachloro-m-xylene
9.404	-0.011	152356	10.357	-0.016	173277	34.88	34.71	0.5	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

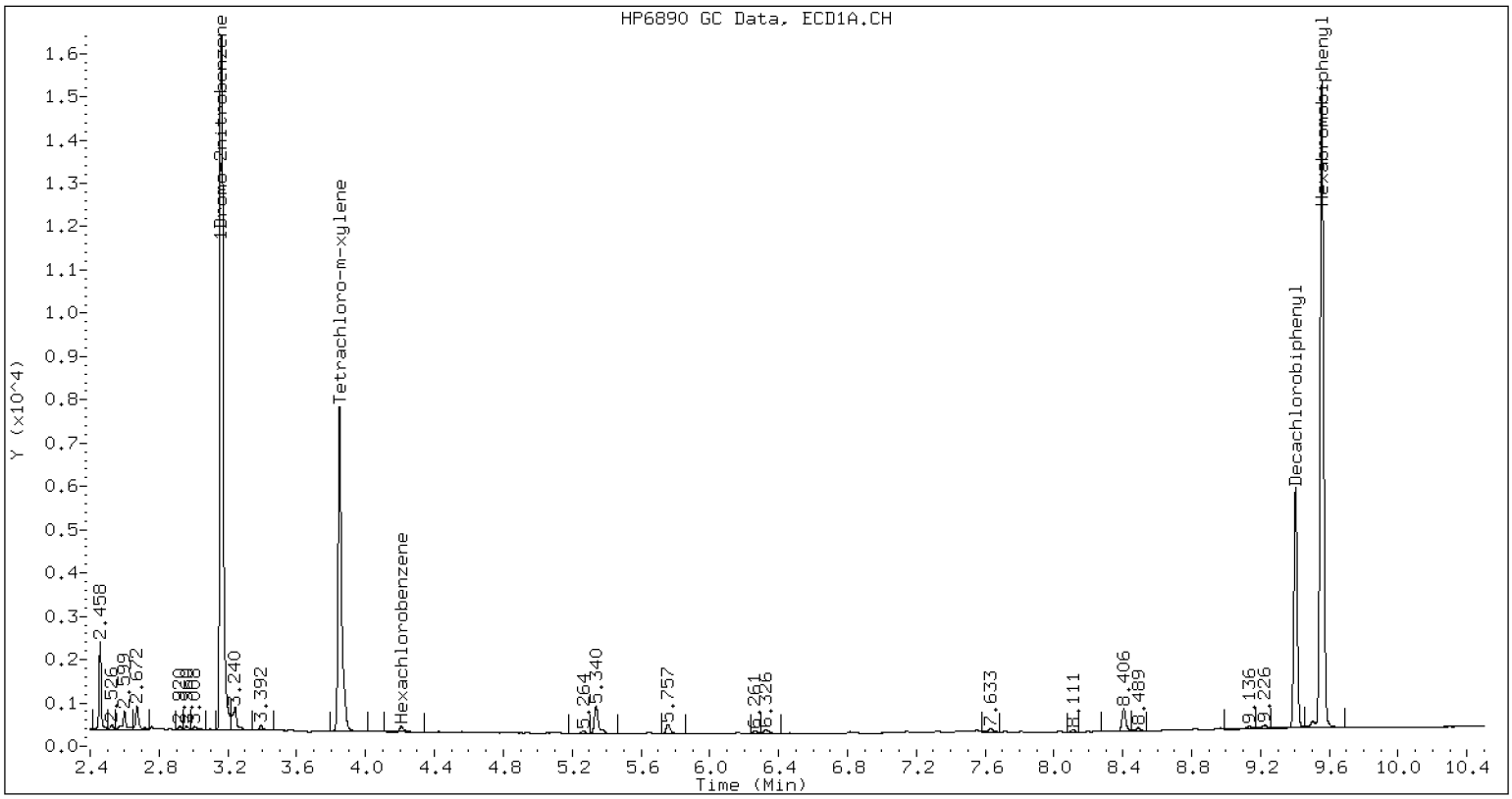
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	672426	556503	-17.2
Hexabromobiphenyl	609723	431055	-29.3

Column 2

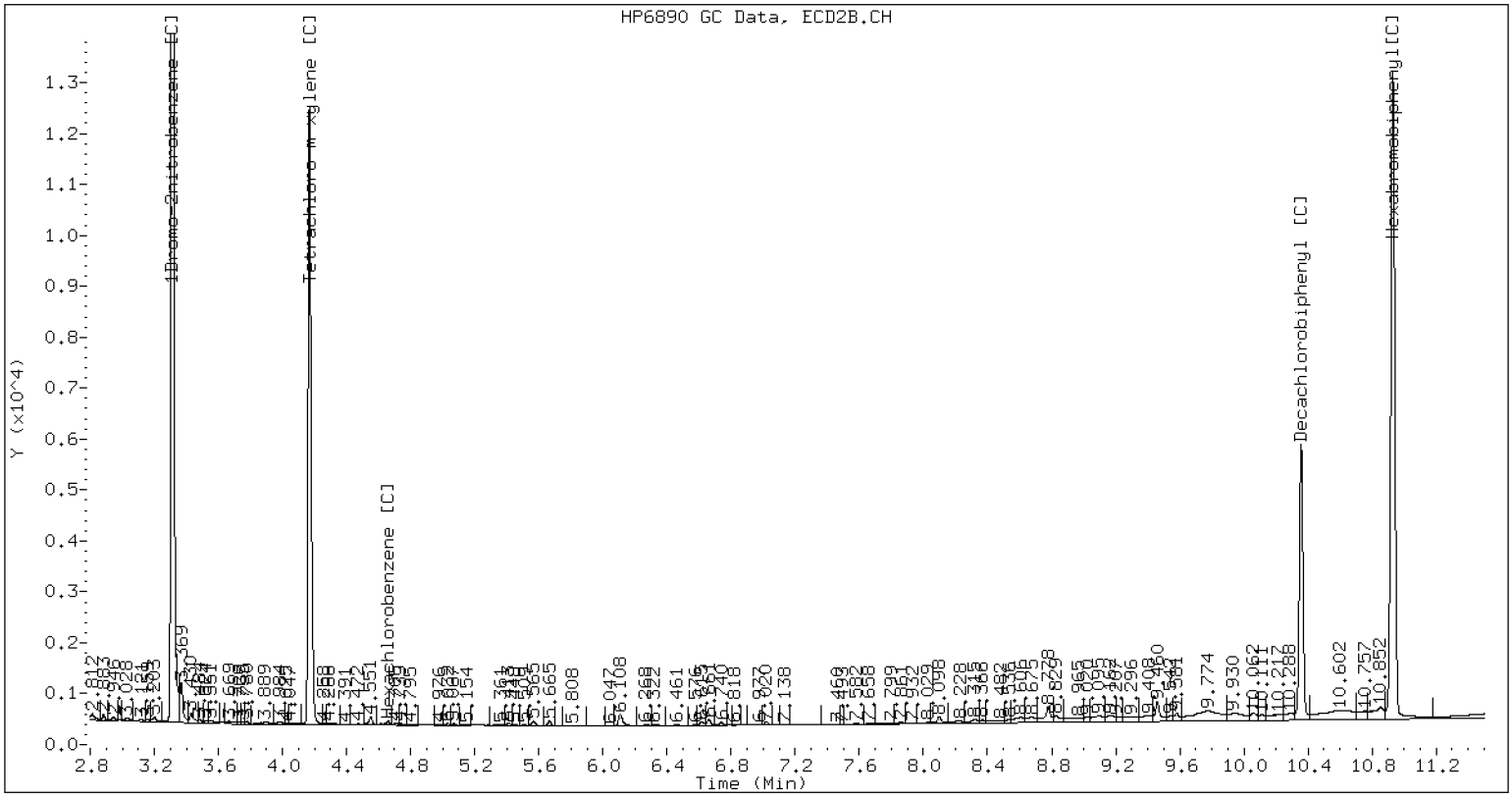
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1006482	793495	-21.2
Hexabromobiphenyl	769764	451679	-41.3

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

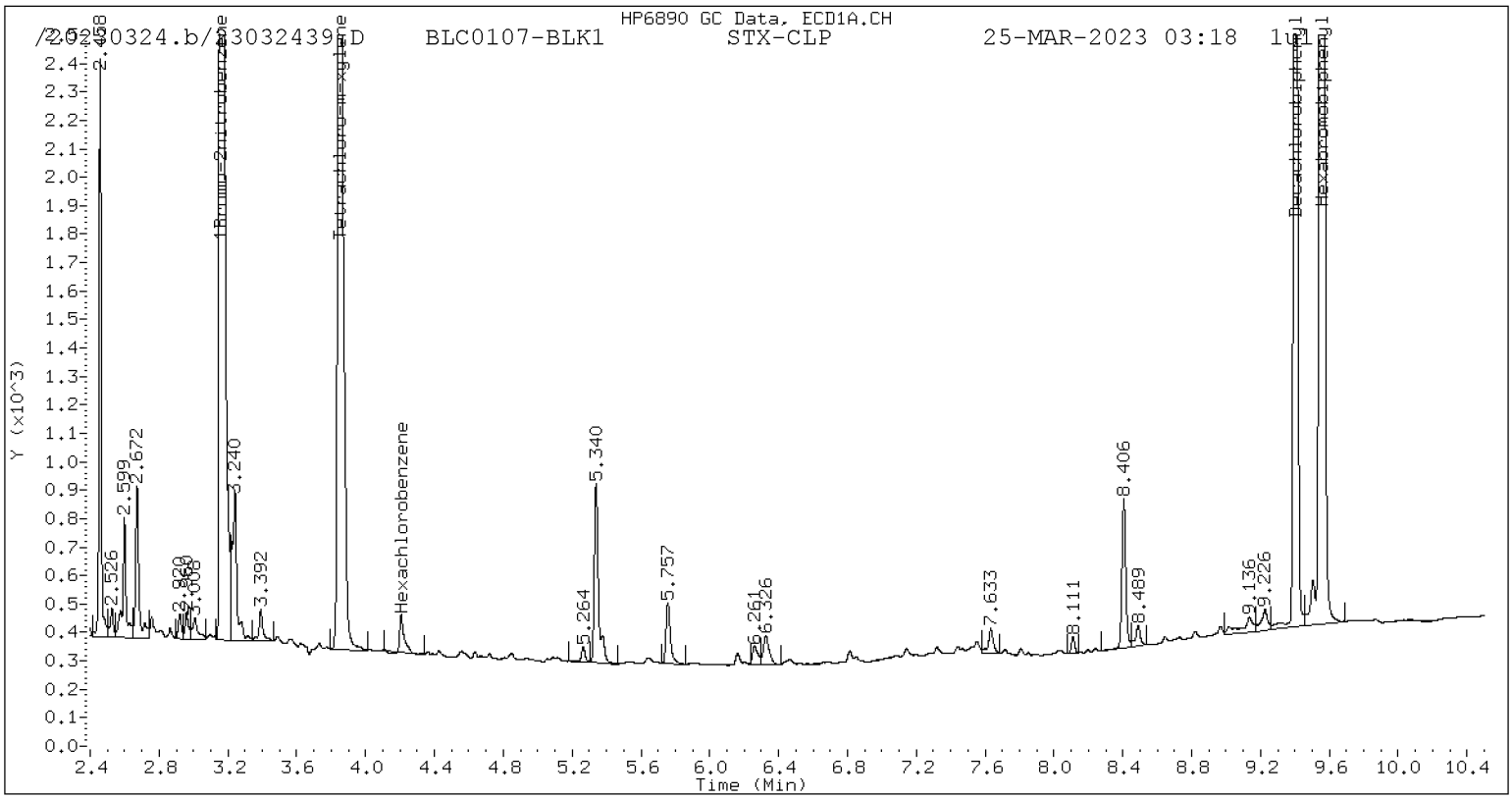
/20230324.b/23032439.D BLC0107-BLK1 STX-CLP 25-MAR-2023 03:18 1ul



/20230324.b/B20230324.b/23032439.D BLC0107-BLK1 CLP2 25-MAR-2023 03:18 1ul

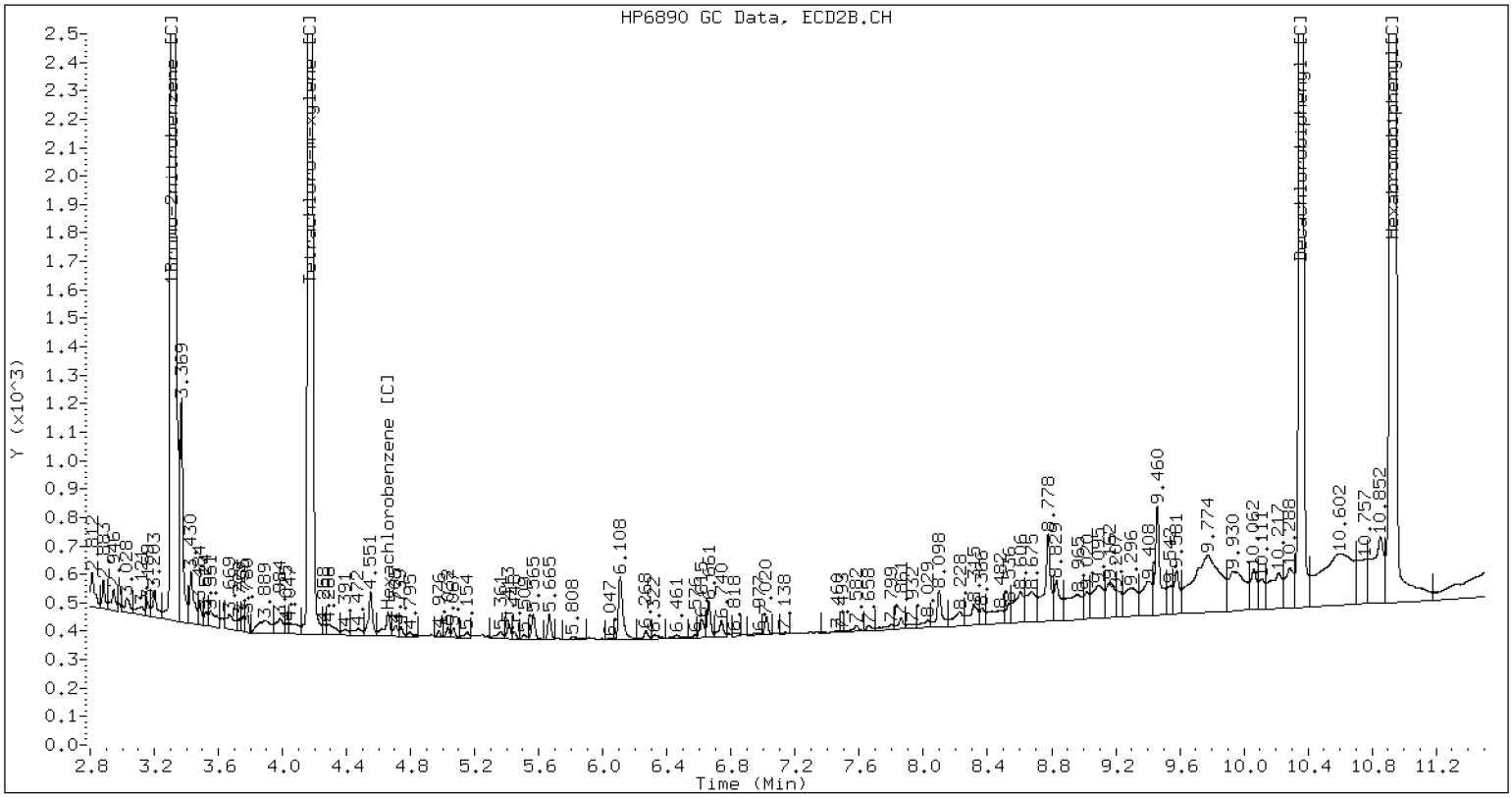


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20230324.b/B20230324.b/23032439.D BLC0107-BLK1 CLP2



CLP-2 Manual Integration: NO

LCS / LCS DUPLICATE RECOVERY

EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Matrix:	Solid	Analyzed:	03/25/23 03:35
Batch:	BLC0107	Laboratory ID:	BLC0107-BS1
Preparation:	EPA 3546 (Microwave)	Sequence Name:	LCS
Initial/Final:	12.5 g / 2.5 mL		

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	Q	LCS % REC. #	QC LIMITS REC.
Hexachlorobenzene	4.00	2.92		72.9	26 - 128

* Indicates values outside of QC limits

COMPOUND	SPIKE ADDED (ug/kg wet)	LCSD CONCENTRATION (ug/kg wet)	Q	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Hexachlorobenzene	4.00	2.81		70.3	3.66	30	26 - 128

* Indicates values outside of QC limits

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230324.b/23032440.D
Data file 2: /20230324.b/B20230324.b/23032440.D
Method: \20230324.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: BLC0107-BS1
Client ID:
Injection Date: 25-MAR-2023 03:35
Report Date: 03/28/2023 10:50
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP on col	CLP2 on col	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response				
----			----			0.00	0.00	---	alpha-BHC
----			----			0.00	0.00	---	beta-BHC
----			----			0.00	0.00	---	delta-BHC
----			----			0.00	0.00	---	gamma-BHC (Lindane)
----			----			0.00	0.00	---	Heptachlor
----			----			0.00	0.00	---	Aldrin
----			----			0.00	0.00	---	Heptachlor epoxide b
----			----			0.00	0.00	---	Endosulfan I
----			----			0.00	0.00	---	Dieldrin
----			----			0.00	0.00	---	4,4'-DDE
----			----			0.00	0.00	---	Endrin
----			----			0.00	0.00	---	Endosulfan II
----			----			0.00	0.00	---	4,4'-DDD
----			----			0.00	0.00	---	Endosulfan sulfate
----			----			0.00	0.00	---	4,4'-DDT
----			----			0.00	0.00	---	Methoxychlor
----			----			0.00	0.00	---	Endrin ketone
----			----			0.00	0.00	---	Endrin aldehyde
----			----			0.00	0.00	---	trans-Chlordane
----			----			0.00	0.00	---	cis-Chlordane
----			----			0.00	0.00	---	Hexachlorobutadiene
4.204	-0.013	263276	4.657	-0.013	370627	14.58	13.35	8.8	Hexachlorobenzene M
3.846	-0.011	405397	4.166	-0.013	622960	29.50	29.07	1.5	Tetrachloro-m-xylene M
9.403	-0.011	280260	10.357	-0.016	317843	34.32	34.60	0.8	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

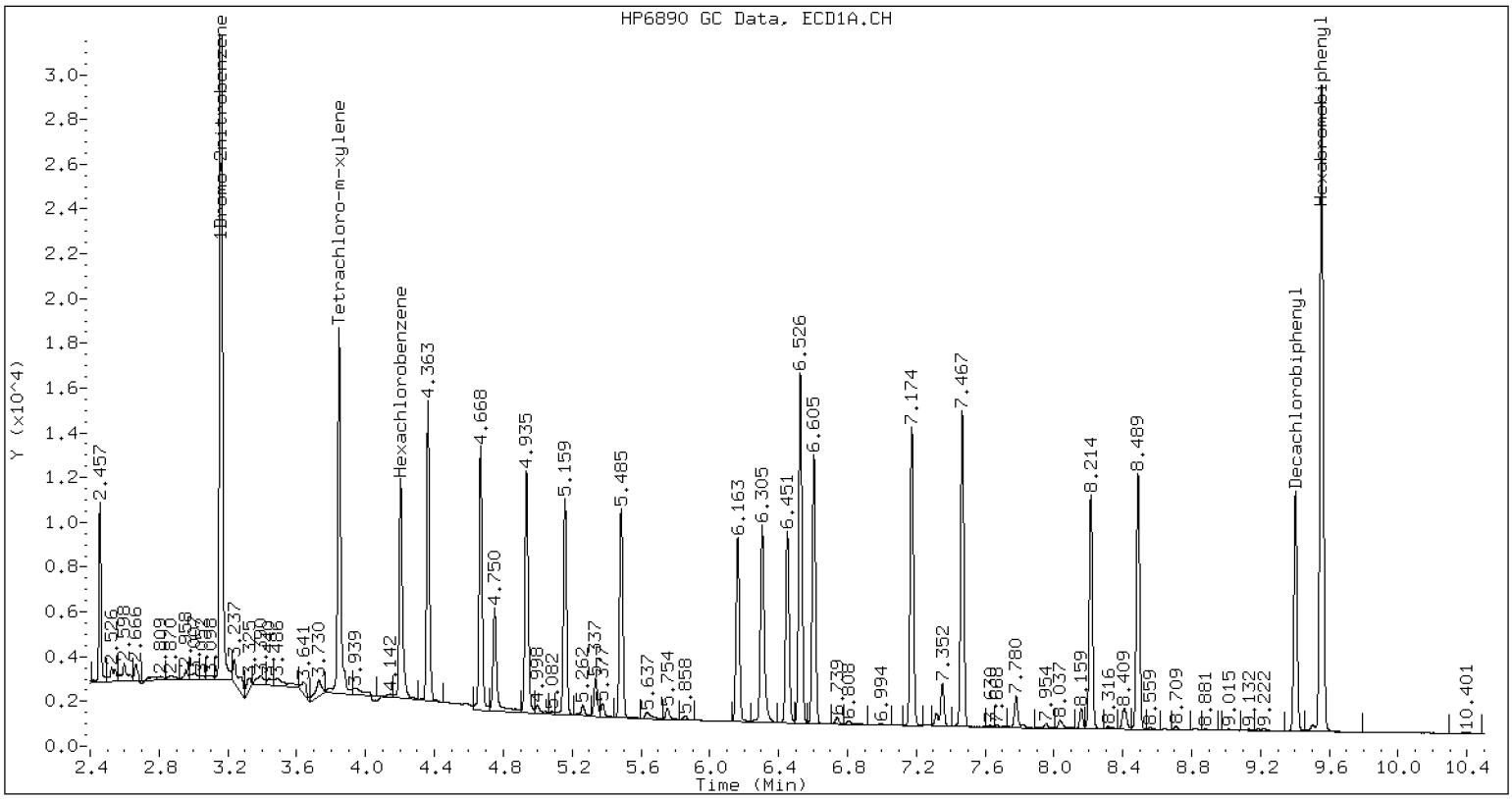
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	672426	1010558	50.3
Hexabromobiphenyl	609723	805987	32.2

Column 2

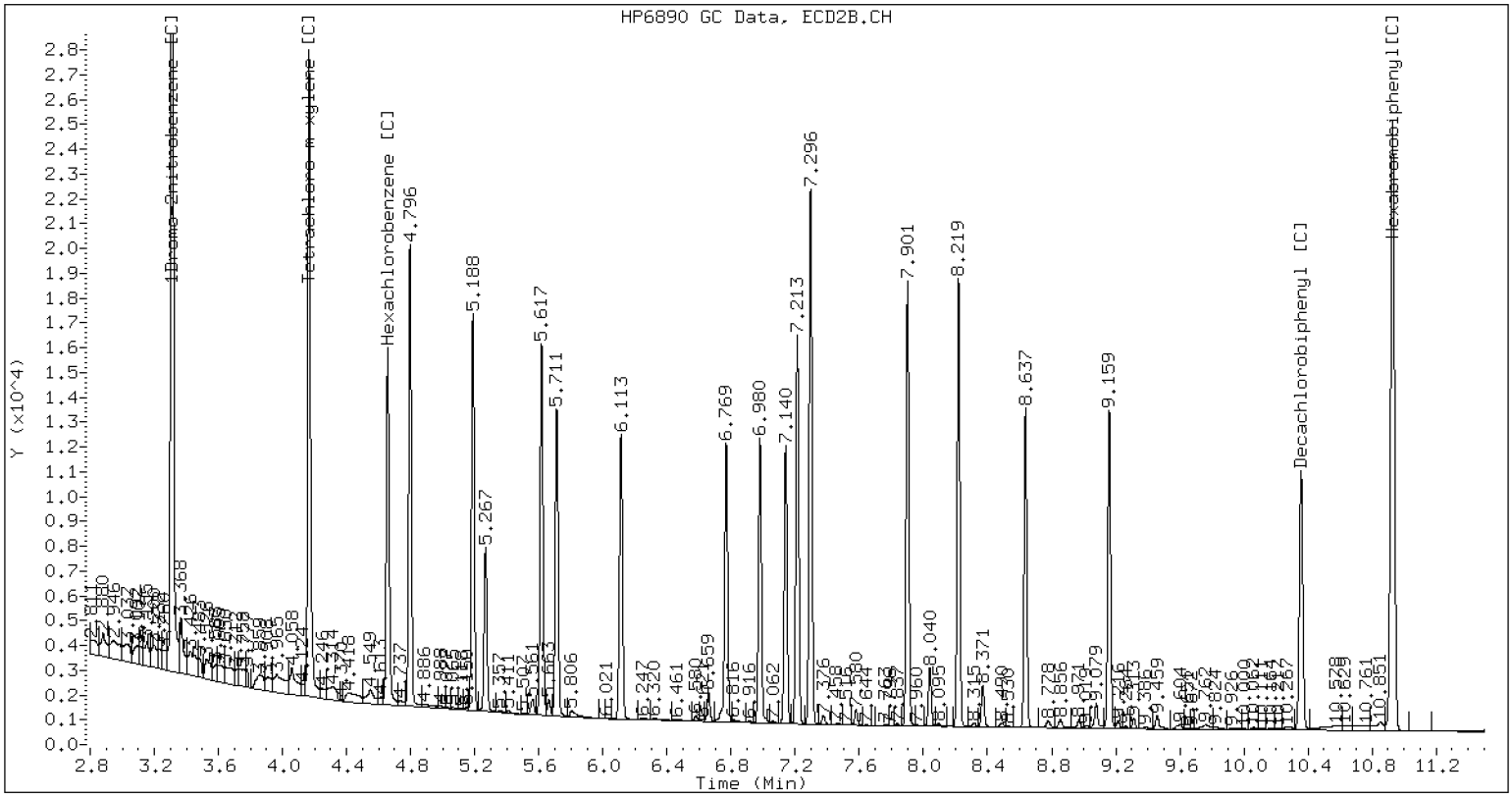
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1006482	1522626	51.3
Hexabromobiphenyl	769764	831281	8.0

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

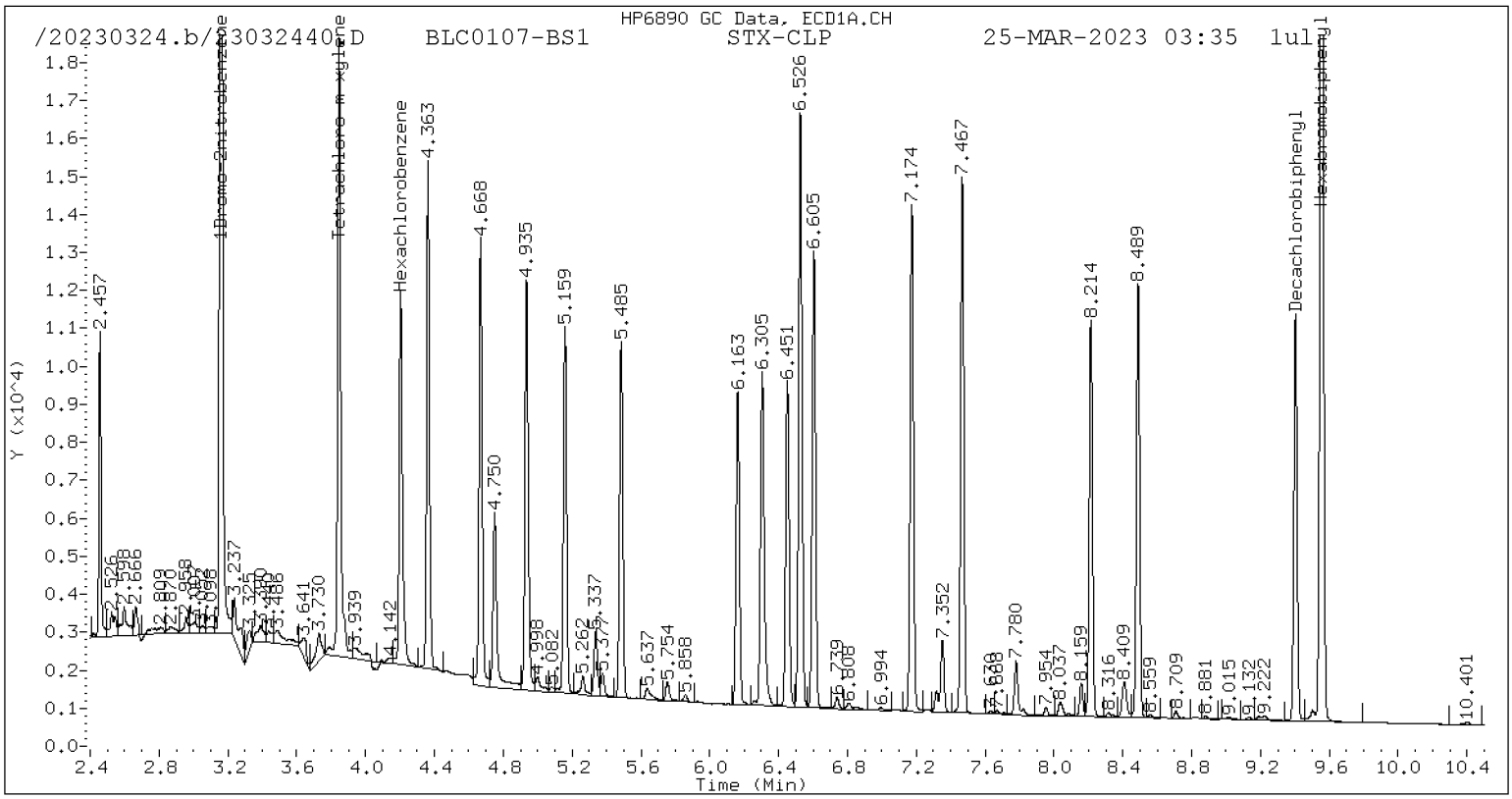
/20230324.b/23032440.D BLC0107-BS1 STX-CLP 25-MAR-2023 03:35 1ul



/20230324.b/B20230324.b/23032440.D BLC0107-BS1 CLP2 25-MAR-2023 03:35 1ul

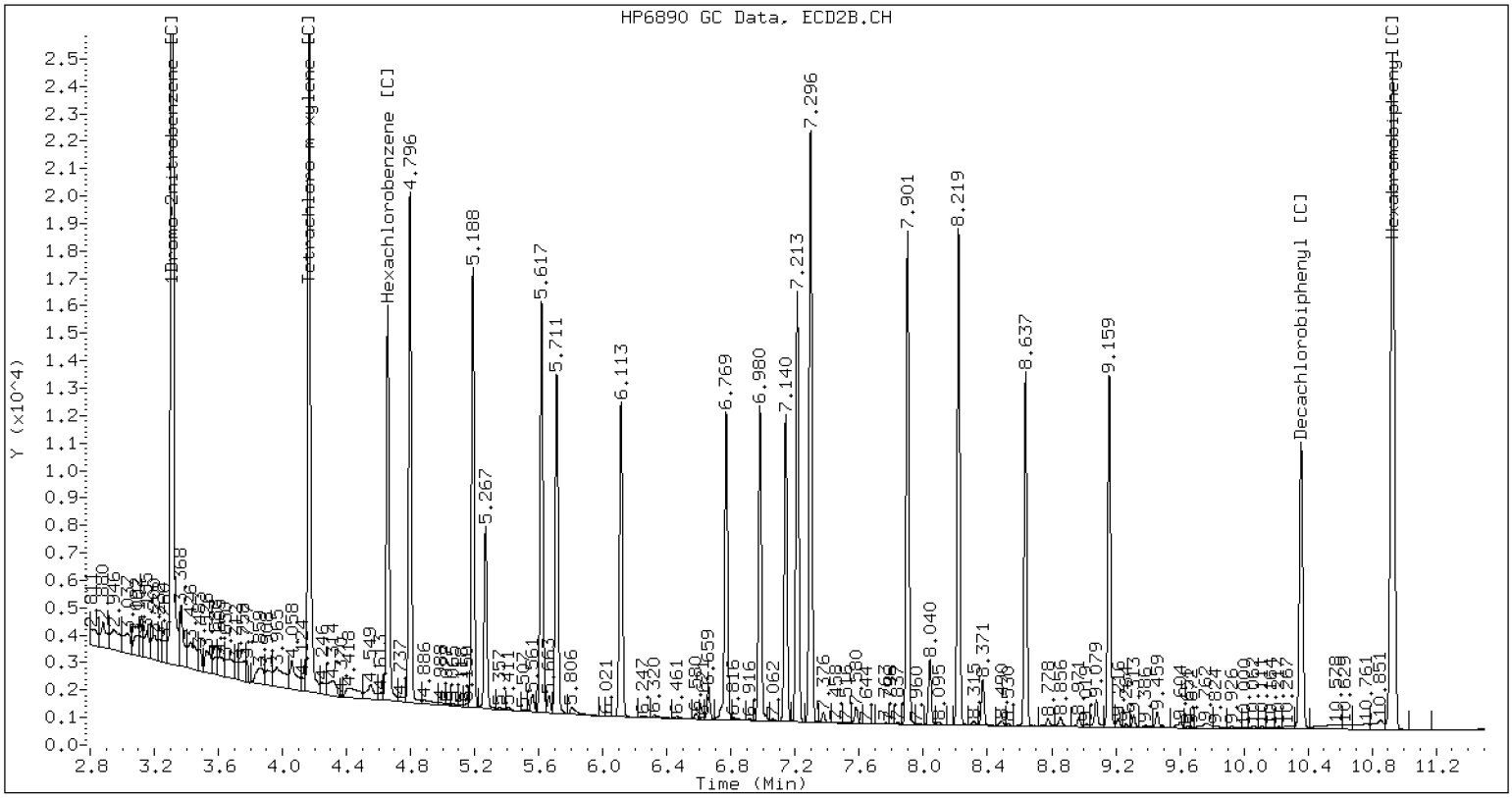


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: YES

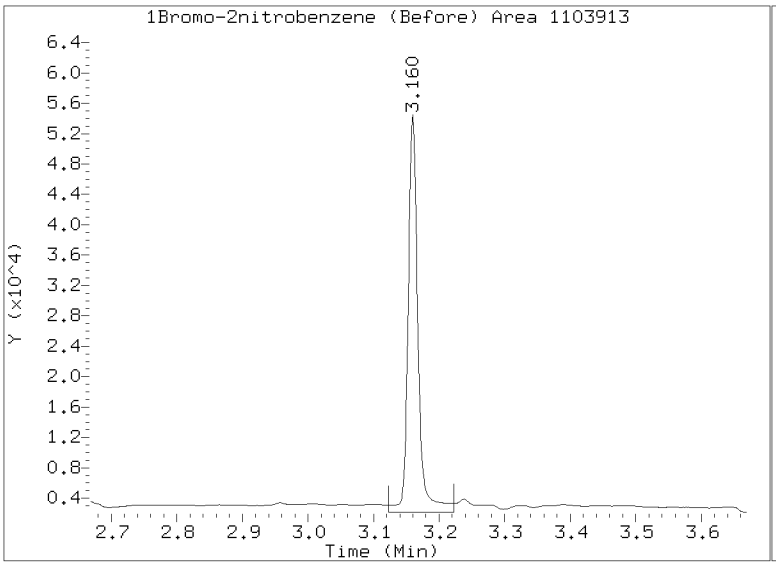
/20230324.b/B20230324.b/23032440.D BLC0107-BS1 CLP2

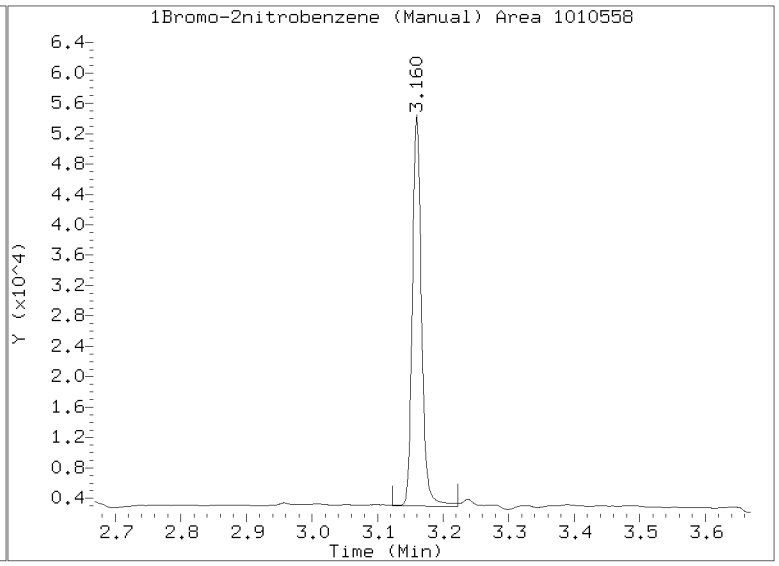


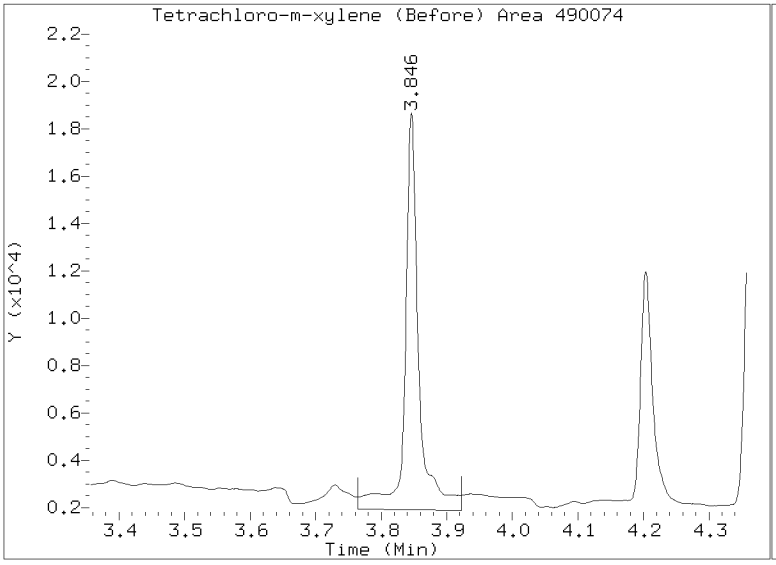
CLP-2 Manual Integration: NO

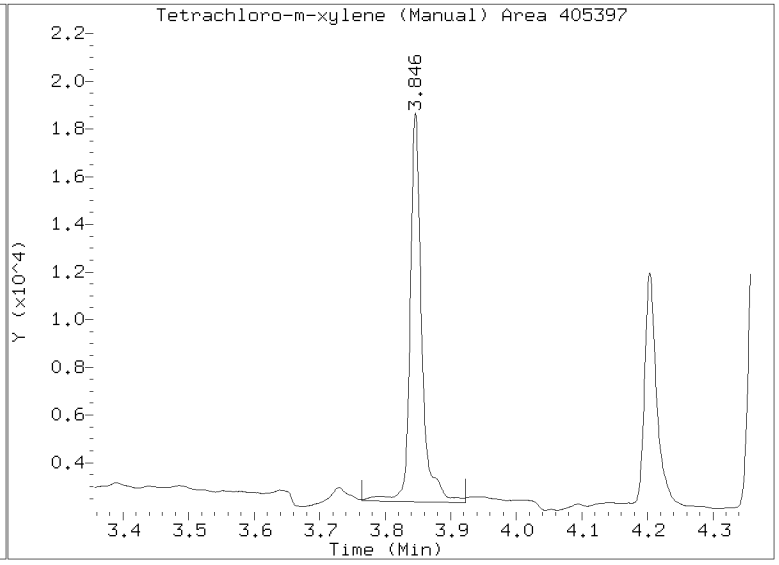
Manual Peak Adjustment Report, STX-CLP

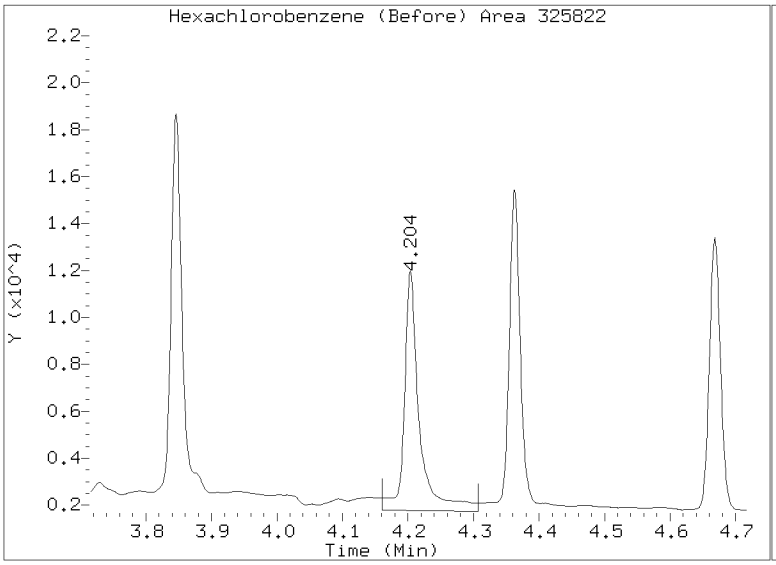
Datafile: /20230324.b/23032440.D
Injection Date: 25-MAR-2023 03:35
Lab ID:BLC0107-BS1 Client ID:
Report Date: 03/28/2023 10:50

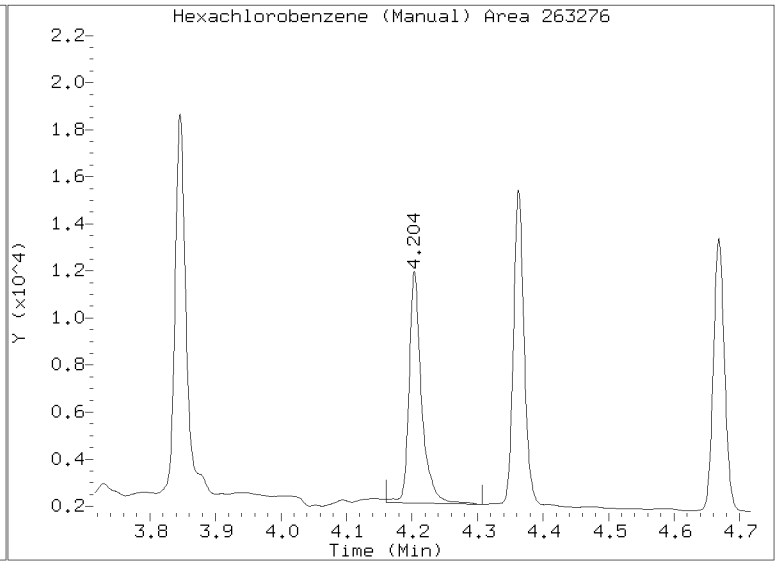












Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230324.b/23032441.D
Data file 2: /20230324.b/B20230324.b/23032441.D
Method: \20230324.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: BLC0107-BSD1
Client ID:
Injection Date: 25-MAR-2023 03:53
Report Date: 03/28/2023 10:51
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP on col	CLP2 on col	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response				
----			----			0.00	0.00	---	alpha-BHC
----			----			0.00	0.00	---	beta-BHC
----			----			0.00	0.00	---	delta-BHC
----			----			0.00	0.00	---	gamma-BHC (Lindane)
----			----			0.00	0.00	---	Heptachlor
----			----			0.00	0.00	---	Aldrin
----			----			0.00	0.00	---	Heptachlor epoxide b
----			----			0.00	0.00	---	Endosulfan I
----			----			0.00	0.00	---	Dieldrin
----			----			0.00	0.00	---	4,4'-DDE
----			----			0.00	0.00	---	Endrin
----			----			0.00	0.00	---	Endosulfan II
----			----			0.00	0.00	---	4,4'-DDD
----			----			0.00	0.00	---	Endosulfan sulfate
----			----			0.00	0.00	---	4,4'-DDT
----			----			0.00	0.00	---	Methoxychlor
----			----			0.00	0.00	---	Endrin ketone
----			----			0.00	0.00	---	Endrin aldehyde
----			----			0.00	0.00	---	trans-Chlordane
----			----			0.00	0.00	---	cis-Chlordane
----			----			0.00	0.00	---	Hexachlorobutadiene
4.204	-0.013	260893	4.656	-0.014	352429	14.05	12.59	11.0	Hexachlorobenzene M
3.846	-0.011	385156	4.165	-0.013	587963	27.26	27.21	0.2	Tetrachloro-m-xylene M
9.403	-0.011	266487	10.357	-0.016	316648	32.06	33.42	4.2	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

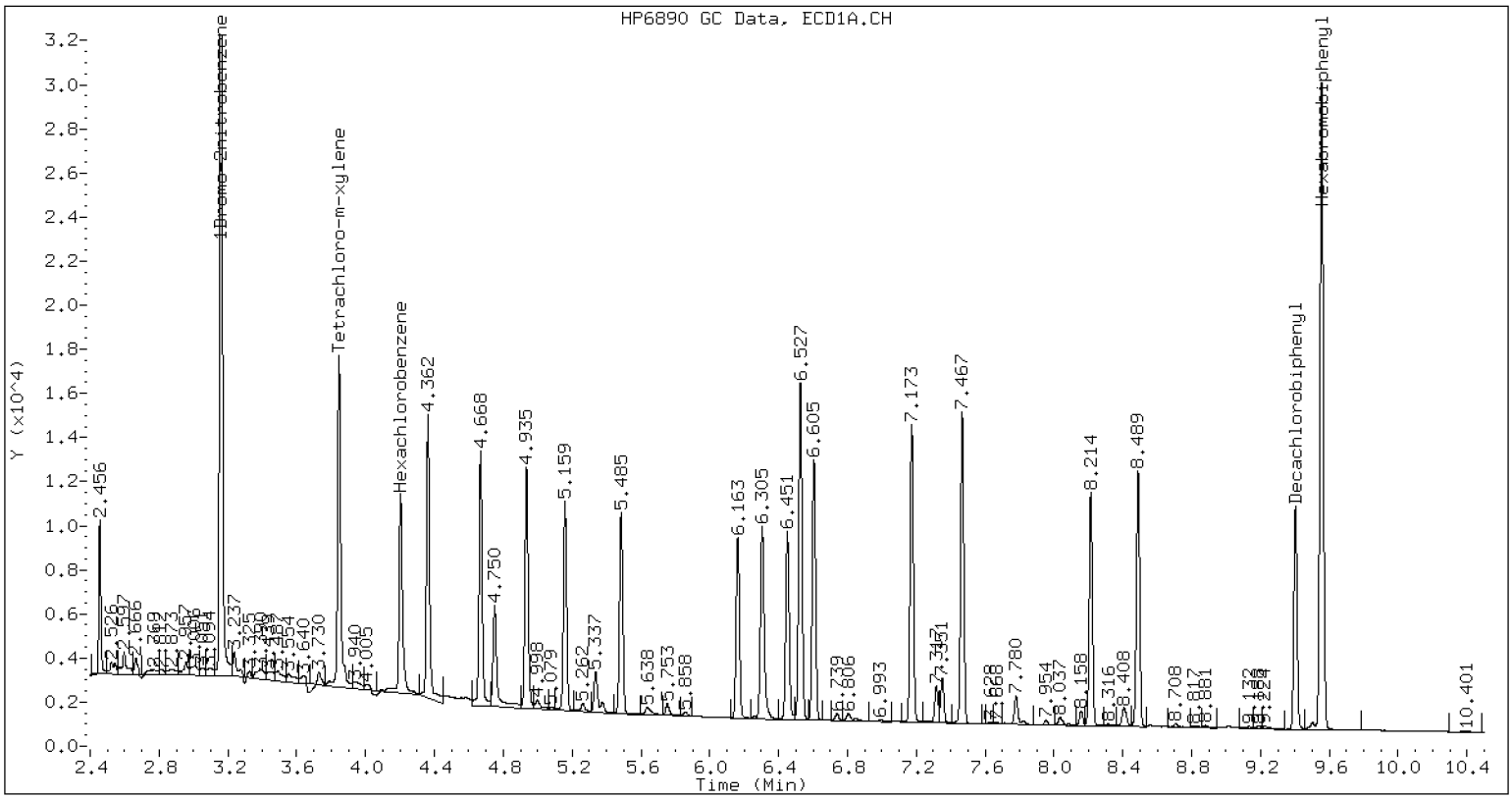
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	672426	1038771	54.5
Hexabromobiphenyl	609723	820290	34.5

Column 2

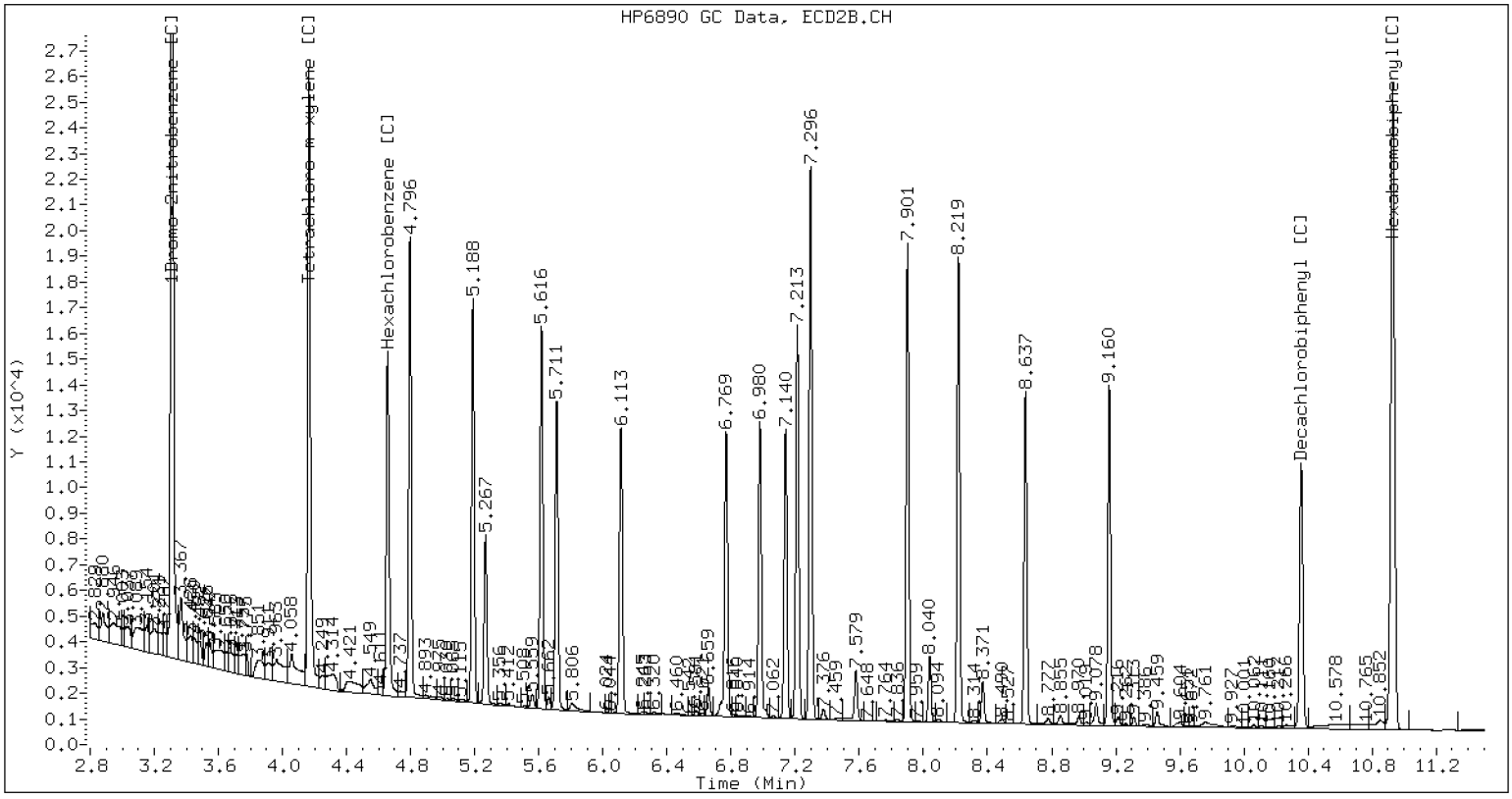
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1006482	1535061	52.5
Hexabromobiphenyl	769764	857154	11.4

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

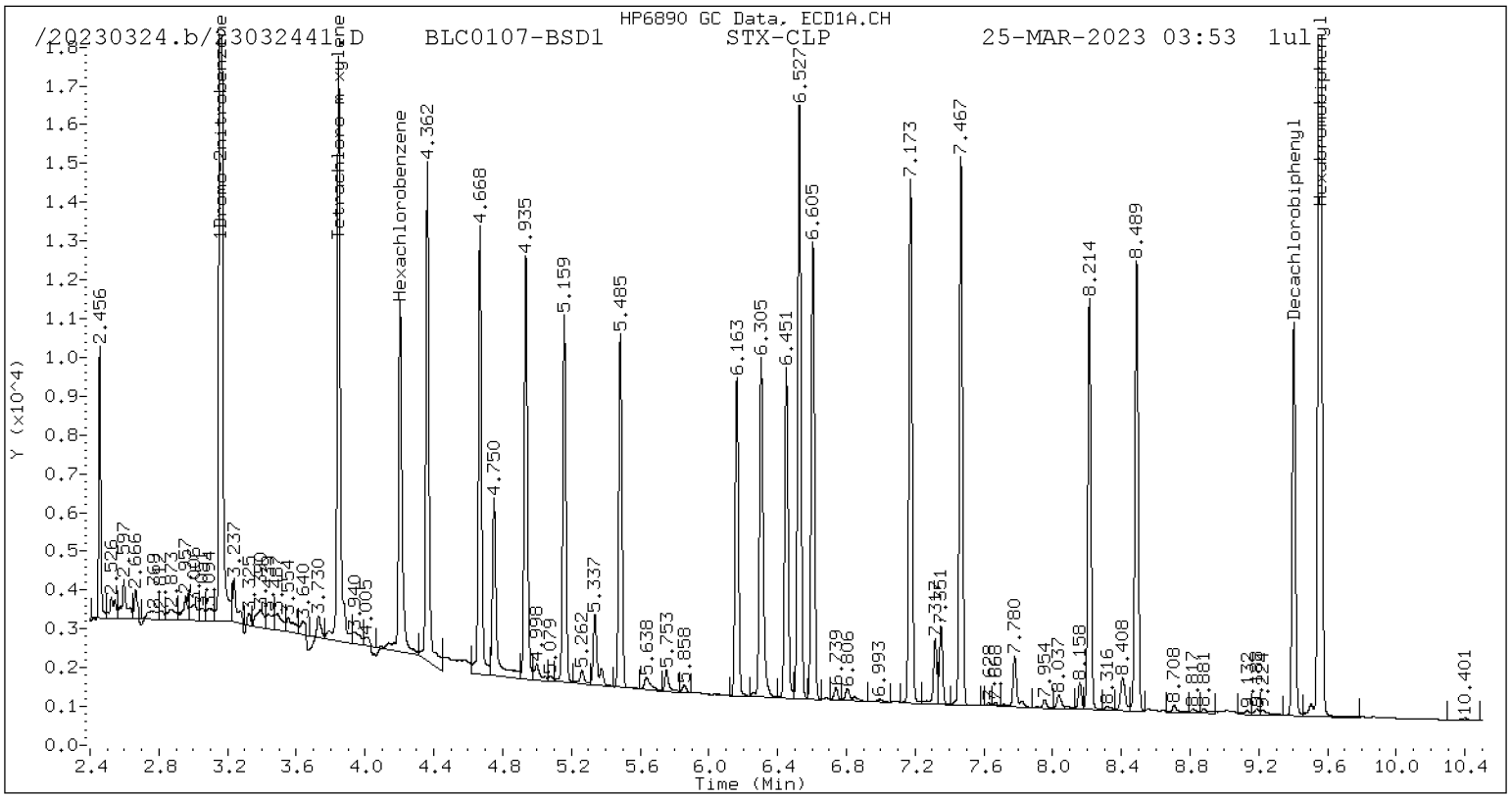
/20230324.b/23032441.D BLC0107-BSD1 STX-CLP 25-MAR-2023 03:53 1ul



/20230324.b/B20230324.b/23032441.D BLC0107-BSD1 CLP2 25-MAR-2023 03:53 1ul

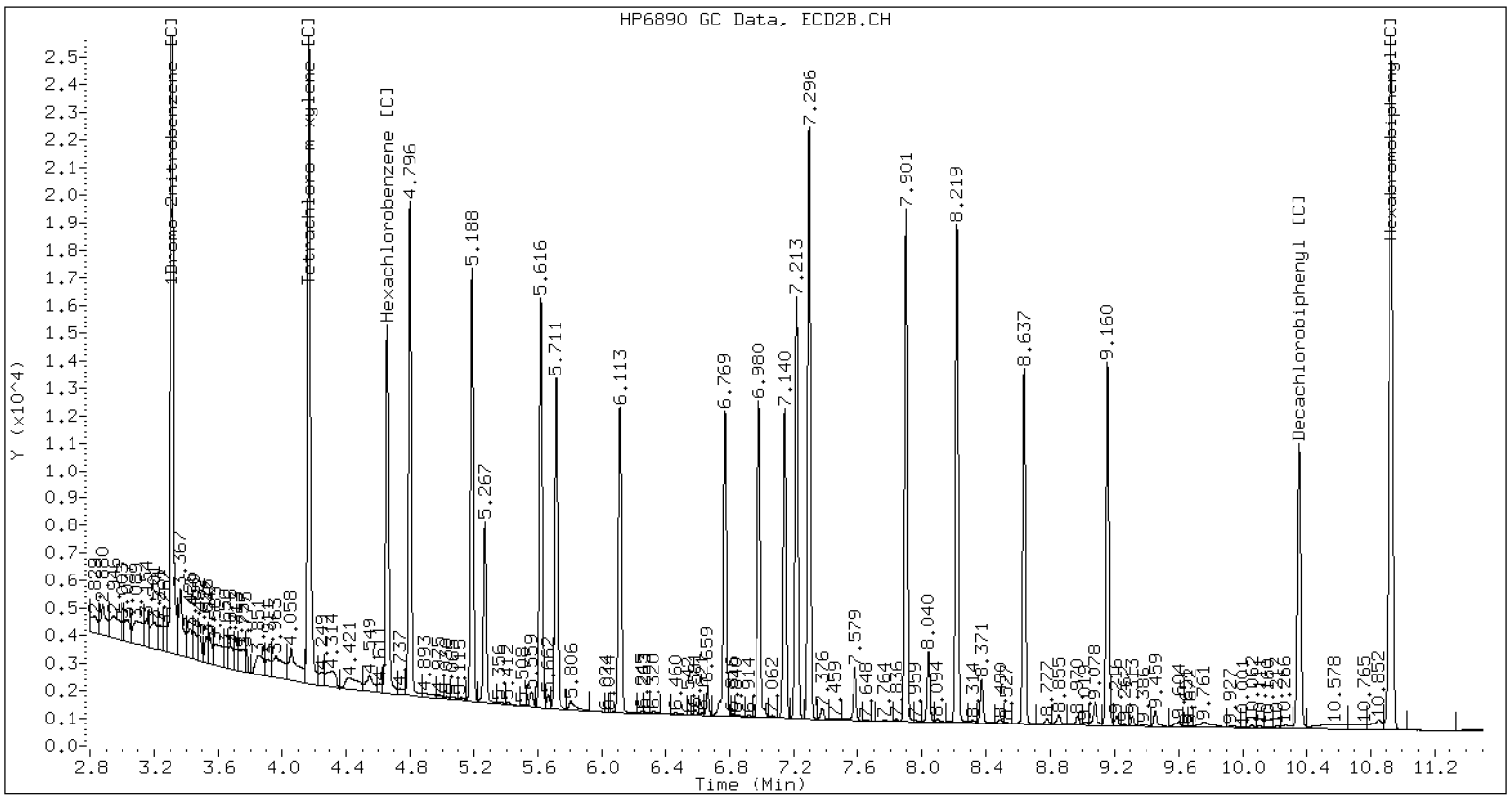


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: YES

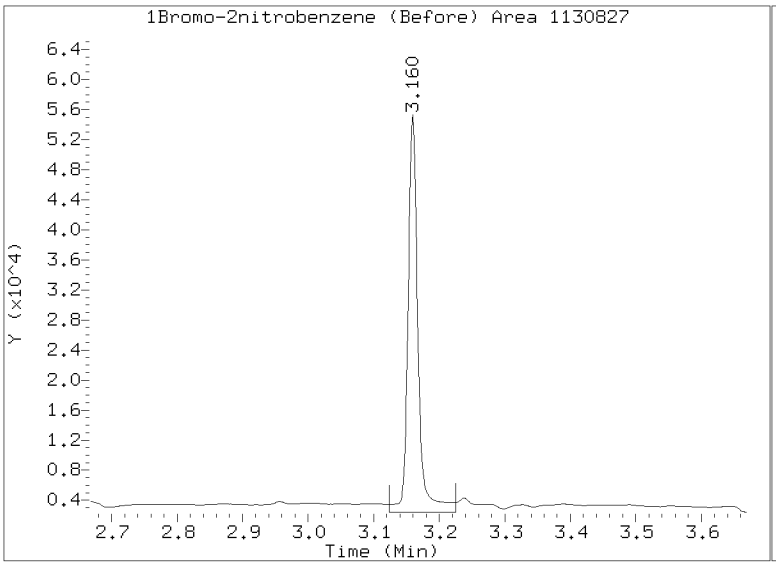
/20230324.b/B20230324.b/23032441.D BLC0107-BSD1 CLP2

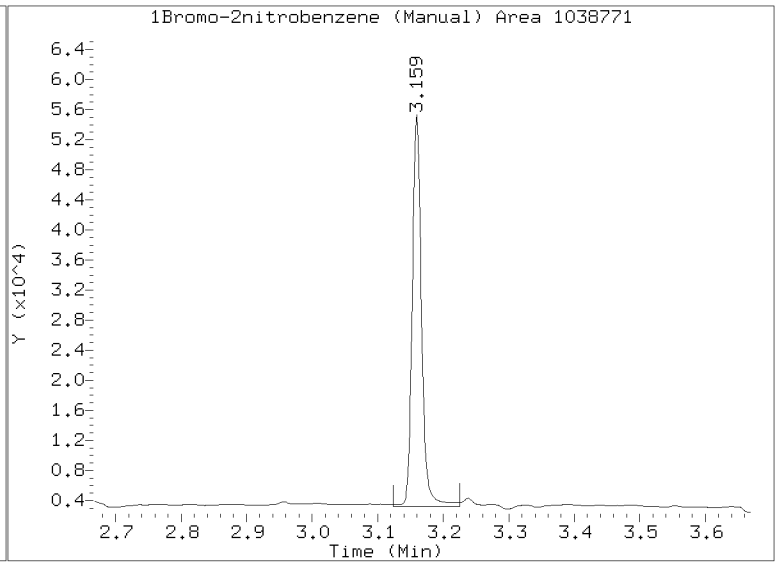


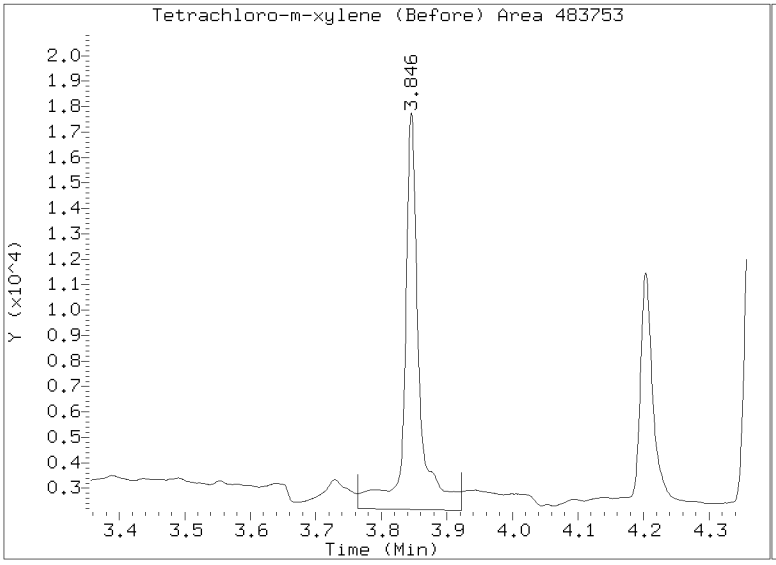
CLP-2 Manual Integration: NO

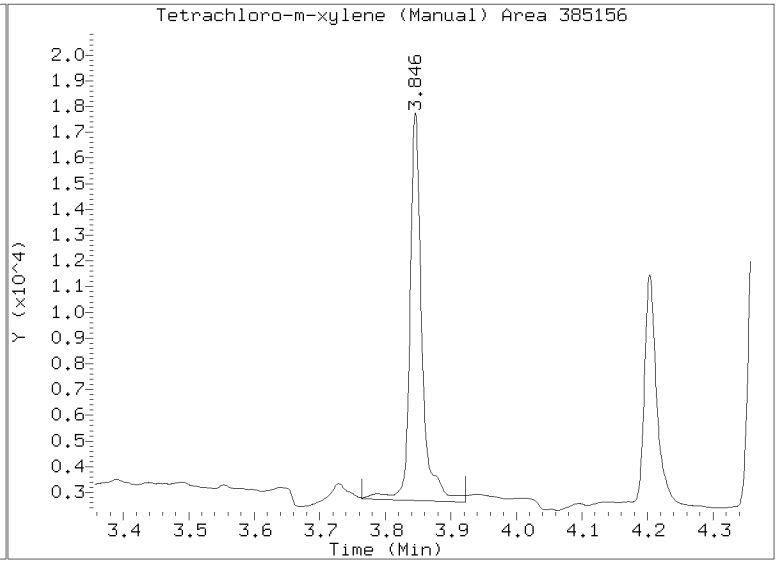
Manual Peak Adjustment Report, STX-CLP

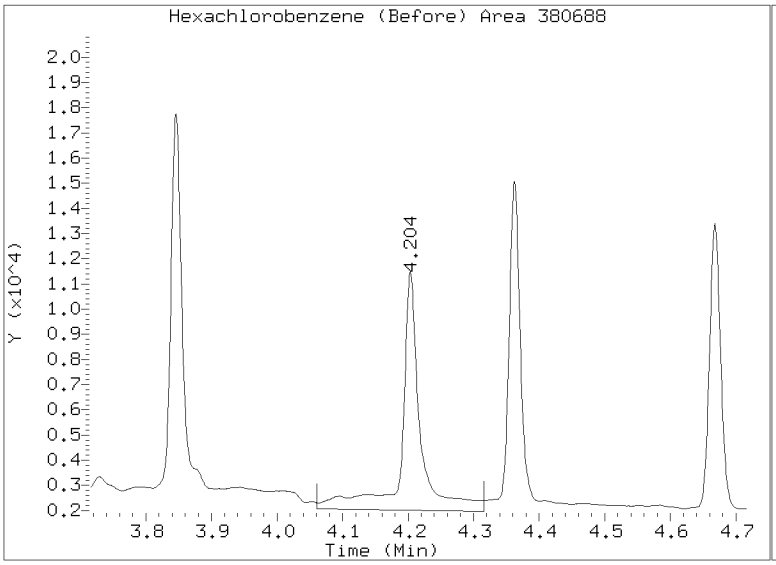
Datafile: /20230324.b/23032441.D
Injection Date: 25-MAR-2023 03:53
Lab ID:BLC0107-BSD1 Client ID:
Report Date: 03/28/2023 10:51

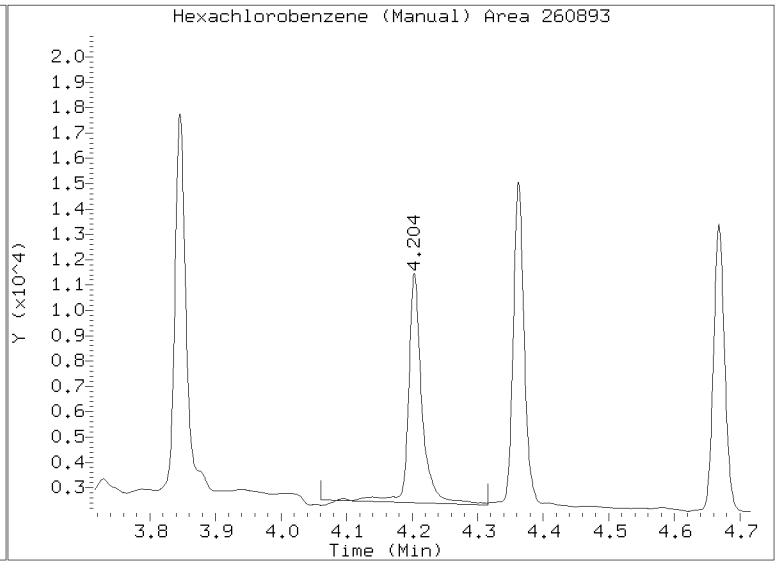












MS / MS DUPLICATE RECOVERY
EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Matrix:	Solid	Analyzed:	03/25/23 05:59
Batch:	BLC0107	Laboratory ID:	BLC0107-MS1
Preparation:	EPA 3546 (Microwave)	Sequence Name:	Matrix Spike
Initial/Final:	24.79 g / 2.5 mL	Source Sample:	LDW23-SS1054

COMPOUND	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	Q	MS CONCENTRATION (ug/kg dry)	Q	MS % REC. #	QC LIMITS REC.
Hexachlorobenzene [2C]	4.00	0.18	U	4.08		102	26 - 128

* Values outside of QC limits

[2C] indicates second-column analyte, present if quantification on any batch samples used second column data.

MS / MS DUPLICATE RECOVERY
EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Matrix:	Solid	Analyzed:	03/25/23 06:17
Batch:	BLC0107	Laboratory ID:	BLC0107-MSD1
Preparation:	EPA 3546 (Microwave)	Sequence Name:	Matrix Spike Dup
Initial/Final:	24.79 g / 2.5 mL	Source Sample:	LDW23-SS1054

COMPOUND	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	Q	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Hexachlorobenzene [2C]	4.00	4.12		103	0.771	30	26 - 128

* Values outside of QC limits

[2C] indicates second-column analyte, present if quantification on any batch samples used second column data.

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230324.b/23032448.D
Data file 2: /20230324.b/B20230324.b/23032448.D
Method: \20230324.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: BLC0107-MS1
Client ID:
Injection Date: 25-MAR-2023 05:59
Report Date: 03/28/2023 10:51
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP on col	CLP2 on col	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response				
----			----			0.00	0.00	---	alpha-BHC
----			----			0.00	0.00	---	beta-BHC
----			----			0.00	0.00	---	delta-BHC
----			----			0.00	0.00	---	gamma-BHC (Lindane)
----			----			0.00	0.00	---	Heptachlor
----			----			0.00	0.00	---	Aldrin
----			----			0.00	0.00	---	Heptachlor epoxide b
----			----			0.00	0.00	---	Endosulfan I
----			----			0.00	0.00	---	Dieldrin
----			----			0.00	0.00	---	4,4'-DDE
----			----			0.00	0.00	---	Endrin
----			----			0.00	0.00	---	Endosulfan II
----			----			0.00	0.00	---	4,4'-DDD
----			----			0.00	0.00	---	Endosulfan sulfate
----			----			0.00	0.00	---	4,4'-DDT
----			----			0.00	0.00	---	Methoxychlor
----			----			0.00	0.00	---	Endrin ketone
----			----			0.00	0.00	---	Endrin aldehyde
----			----			0.00	0.00	---	trans-Chlordane
----			----			0.00	0.00	---	cis-Chlordane
----			----			0.00	0.00	---	Hexachlorobutadiene
4.203	-0.014	277328	4.654	-0.016	505973	14.83	20.42	31.7	Hexachlorobenzene M
3.845	-0.012	414167	4.165	-0.013	517175	29.11	27.05	7.3	Tetrachloro-m-xylene M
9.408	-0.007	279654	10.361	-0.012	312647	36.65	35.44	3.4	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

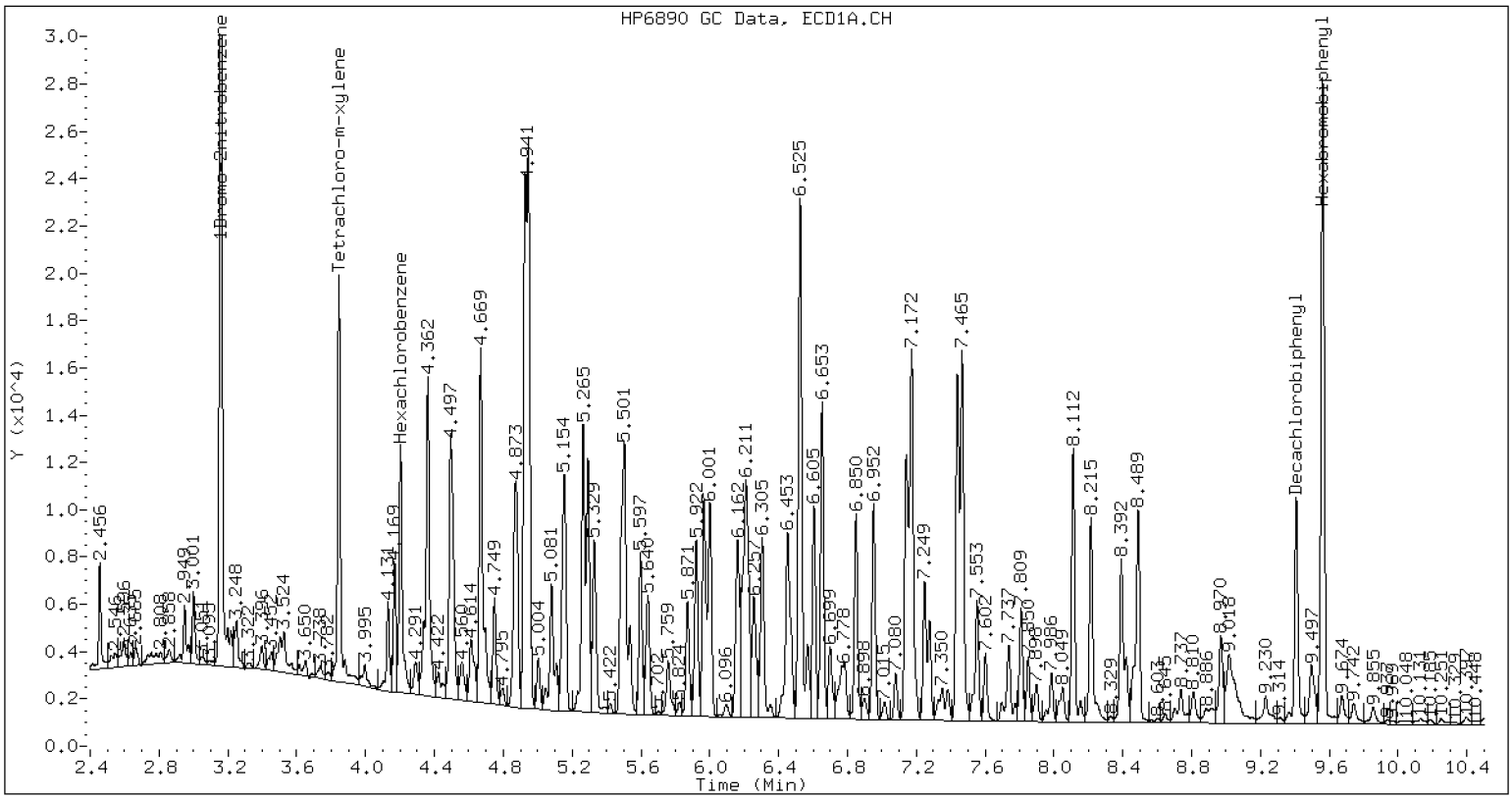
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	672426	1046201	55.6
Hexabromobiphenyl	609723	753123	23.5

Column 2

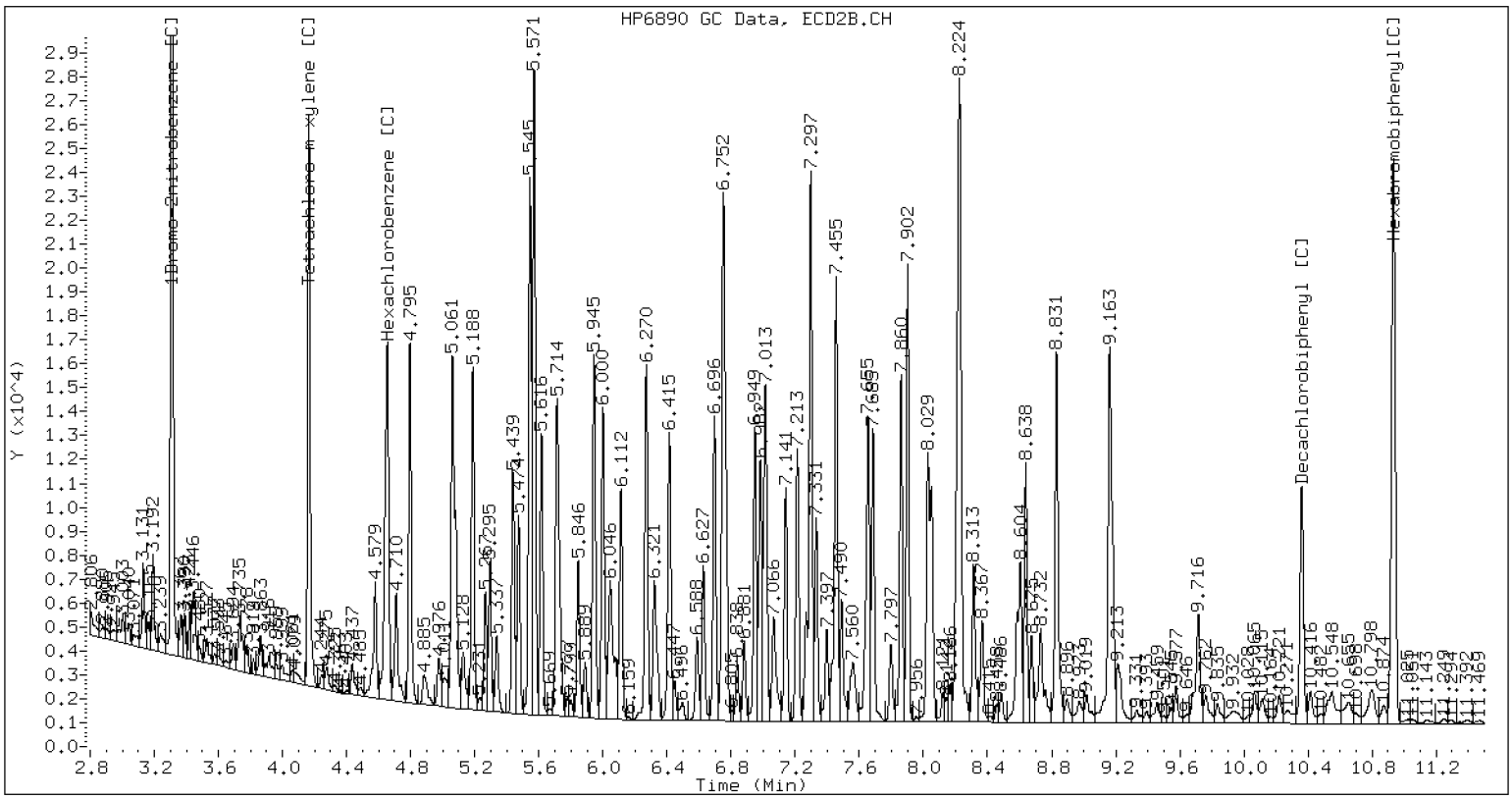
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1006482	1358412	35.0
Hexabromobiphenyl	769764	798216	3.7

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

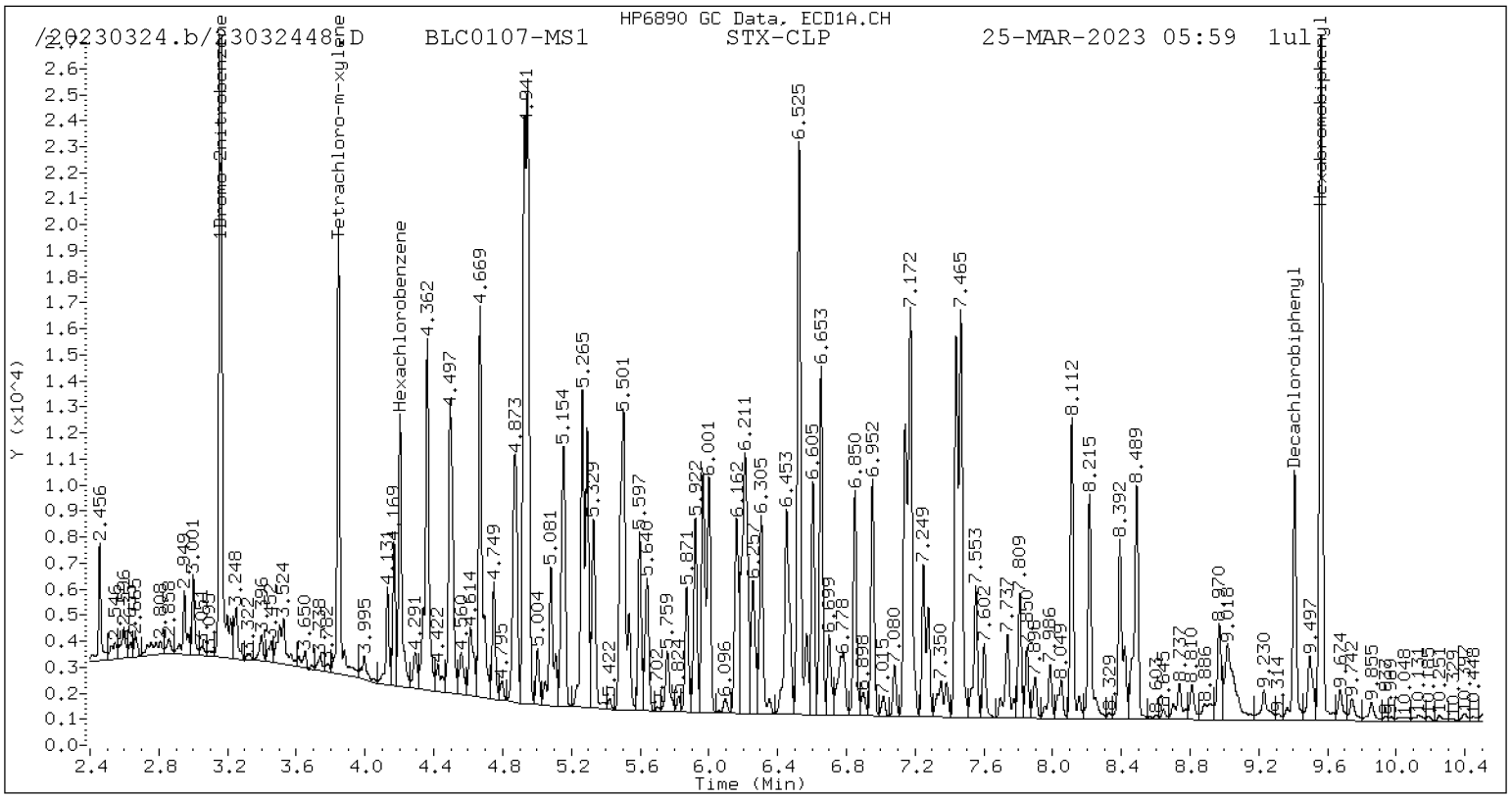
/20230324.b/23032448.D BLC0107-MS1 STX-CLP 25-MAR-2023 05:59 1ul



/20230324.b/B20230324.b/23032448.D BLC0107-MS1 CLP2 25-MAR-2023 05:59 1ul

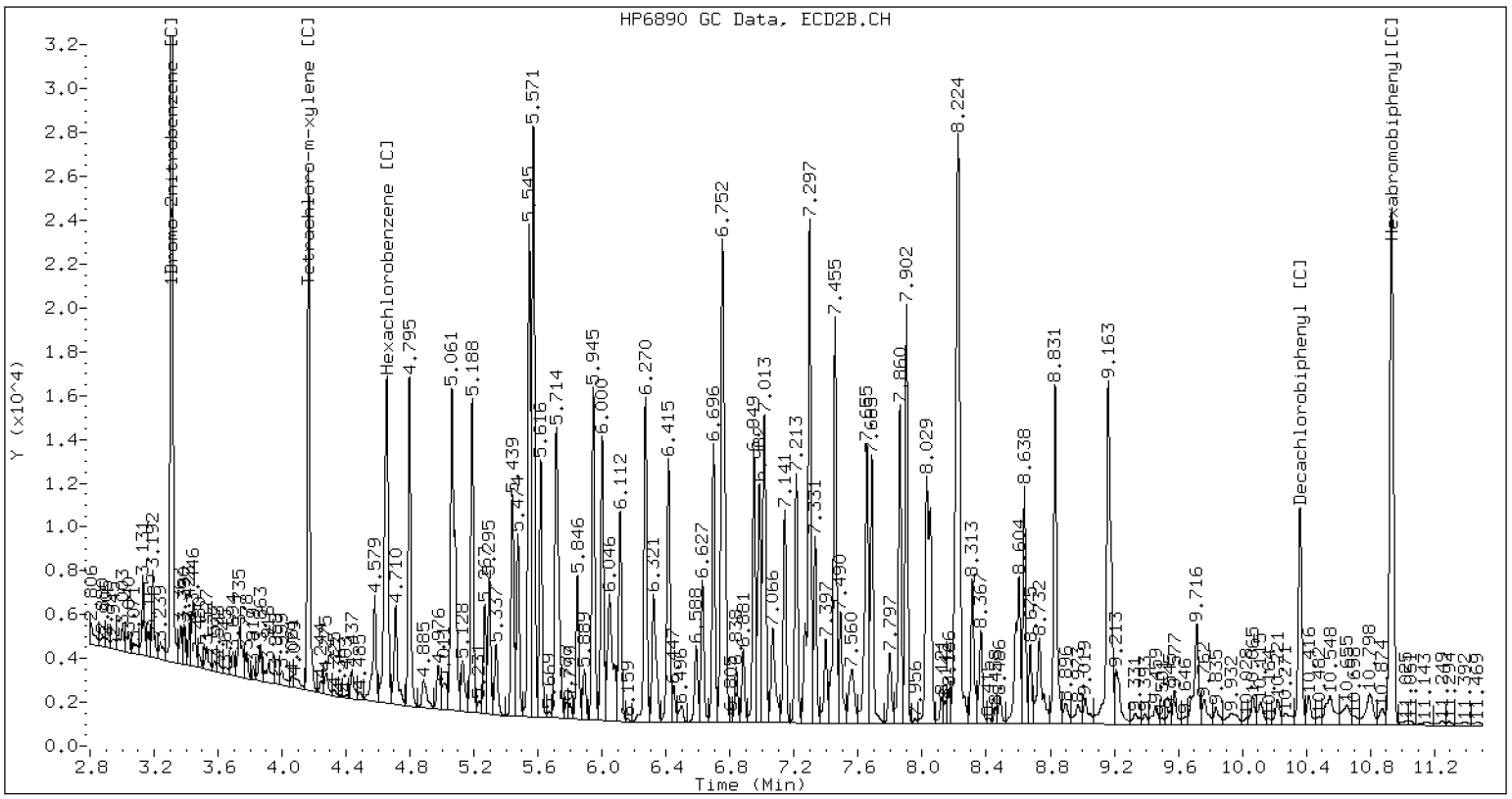


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: YES

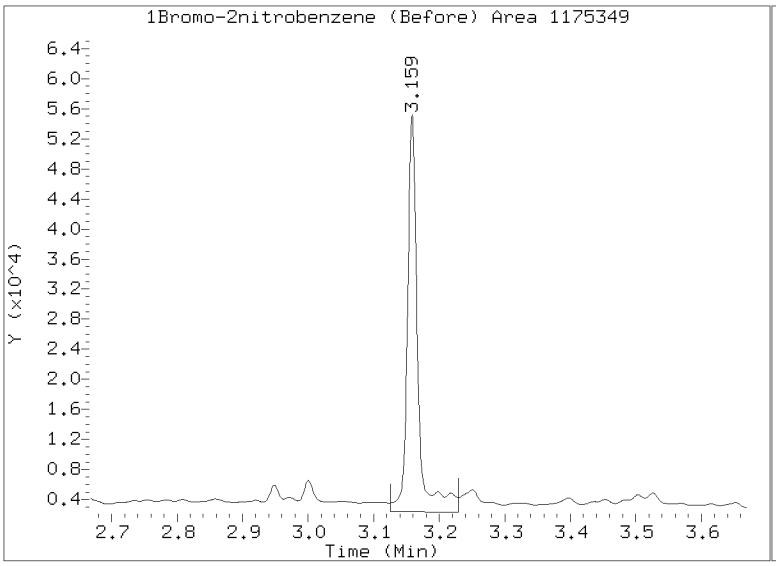
/20230324.b/B20230324.b/23032448.D BLC0107-MS1 CLP2

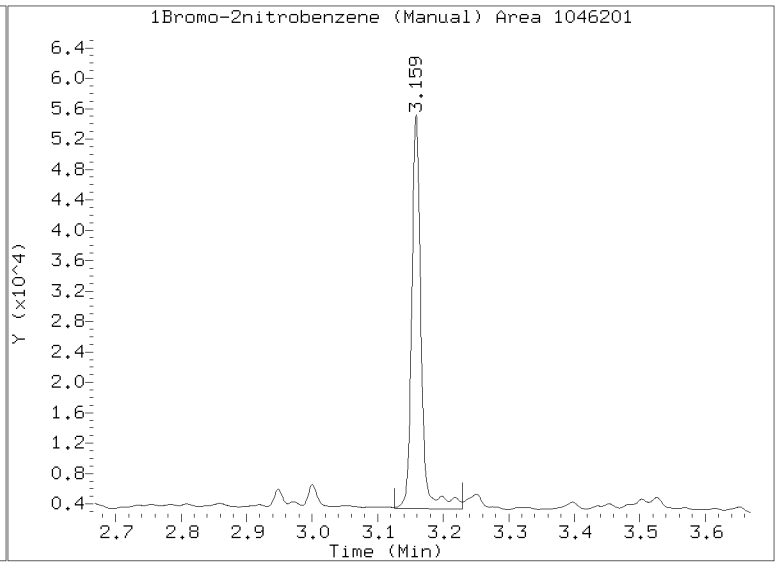


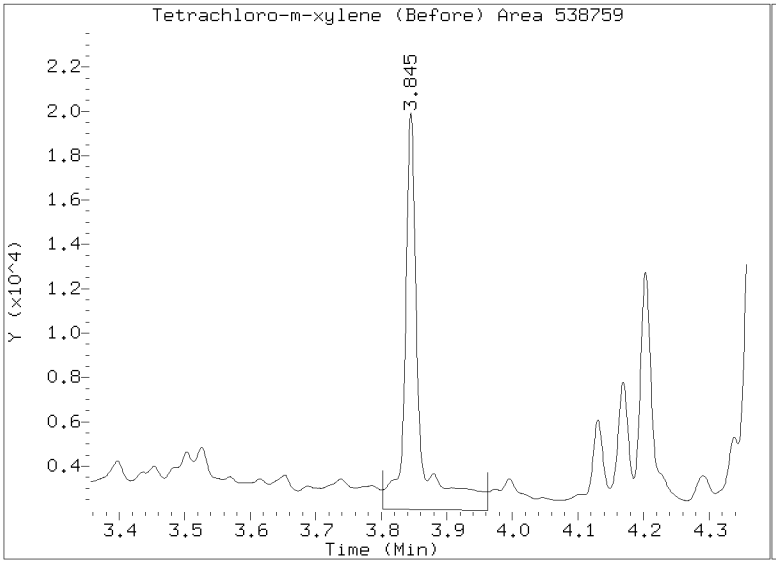
CLP-2 Manual Integration: NO

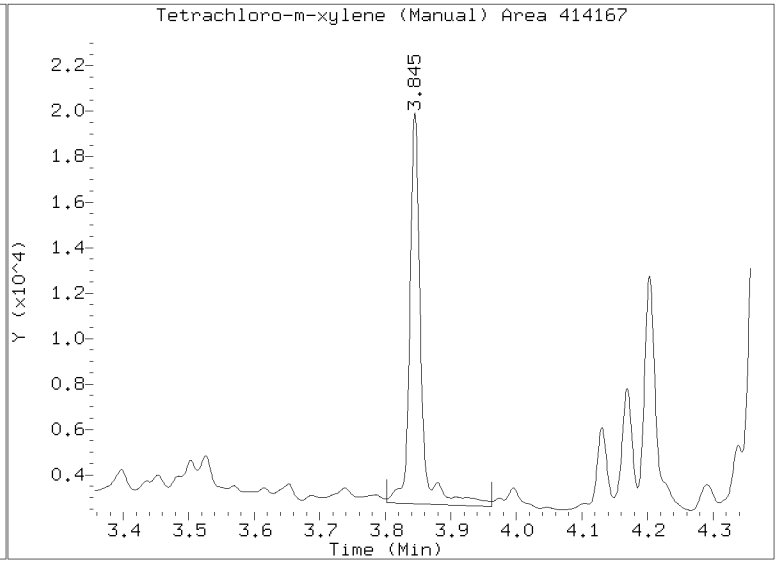
Manual Peak Adjustment Report, STX-CLP

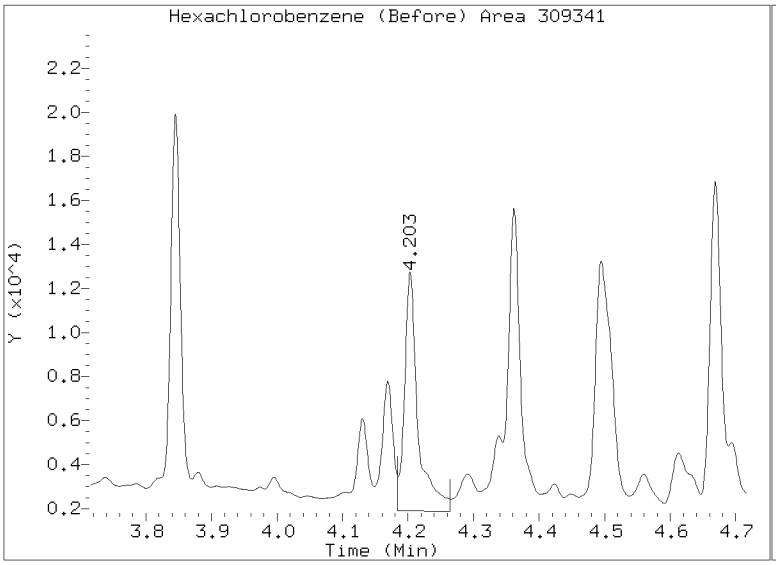
Datafile: /20230324.b/23032448.D
Injection Date: 25-MAR-2023 05:59
Lab ID:BLC0107-MS1 Client ID:
Report Date: 03/28/2023 10:51

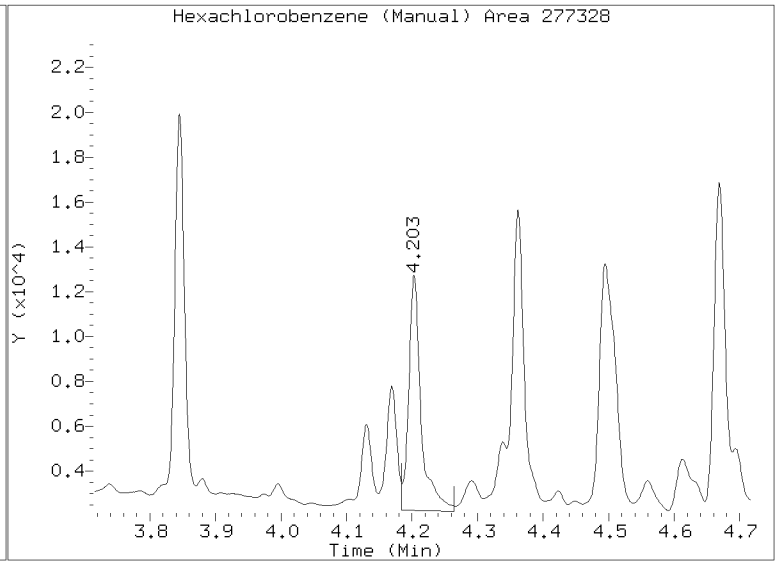












Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230324.b/23032449.D
Data file 2: /20230324.b/B20230324.b/23032449.D
Method: \20230324.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: BLC0107-MSD1
Client ID:
Injection Date: 25-MAR-2023 06:17
Report Date: 03/28/2023 10:51
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP on col	CLP2 on col	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response				
----			----			0.00	0.00	---	alpha-BHC
----			----			0.00	0.00	---	beta-BHC
----			----			0.00	0.00	---	delta-BHC
----			----			0.00	0.00	---	gamma-BHC (Lindane)
----			----			0.00	0.00	---	Heptachlor
----			----			0.00	0.00	---	Aldrin
----			----			0.00	0.00	---	Heptachlor epoxide b
----			----			0.00	0.00	---	Endosulfan I
----			----			0.00	0.00	---	Dieldrin
----			----			0.00	0.00	---	4,4'-DDE
----			----			0.00	0.00	---	Endrin
----			----			0.00	0.00	---	Endosulfan II
----			----			0.00	0.00	---	4,4'-DDD
----			----			0.00	0.00	---	Endosulfan sulfate
----			----			0.00	0.00	---	4,4'-DDT
----			----			0.00	0.00	---	Methoxychlor
----			----			0.00	0.00	---	Endrin ketone
----			----			0.00	0.00	---	Endrin aldehyde
----			----			0.00	0.00	---	trans-Chlordane
----			----			0.00	0.00	---	cis-Chlordane
----			----			0.00	0.00	---	Hexachlorobutadiene
4.204	-0.012	137797	4.654	-0.016	263701	13.97	20.58	38.2	Hexachlorobenzene M
3.847	-0.011	223387	4.167	-0.012	274861	29.77	27.79	6.9	Tetrachloro-m-xylene M
9.405	-0.009	157268	10.358	-0.015	167566	40.15	36.30	10.1	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

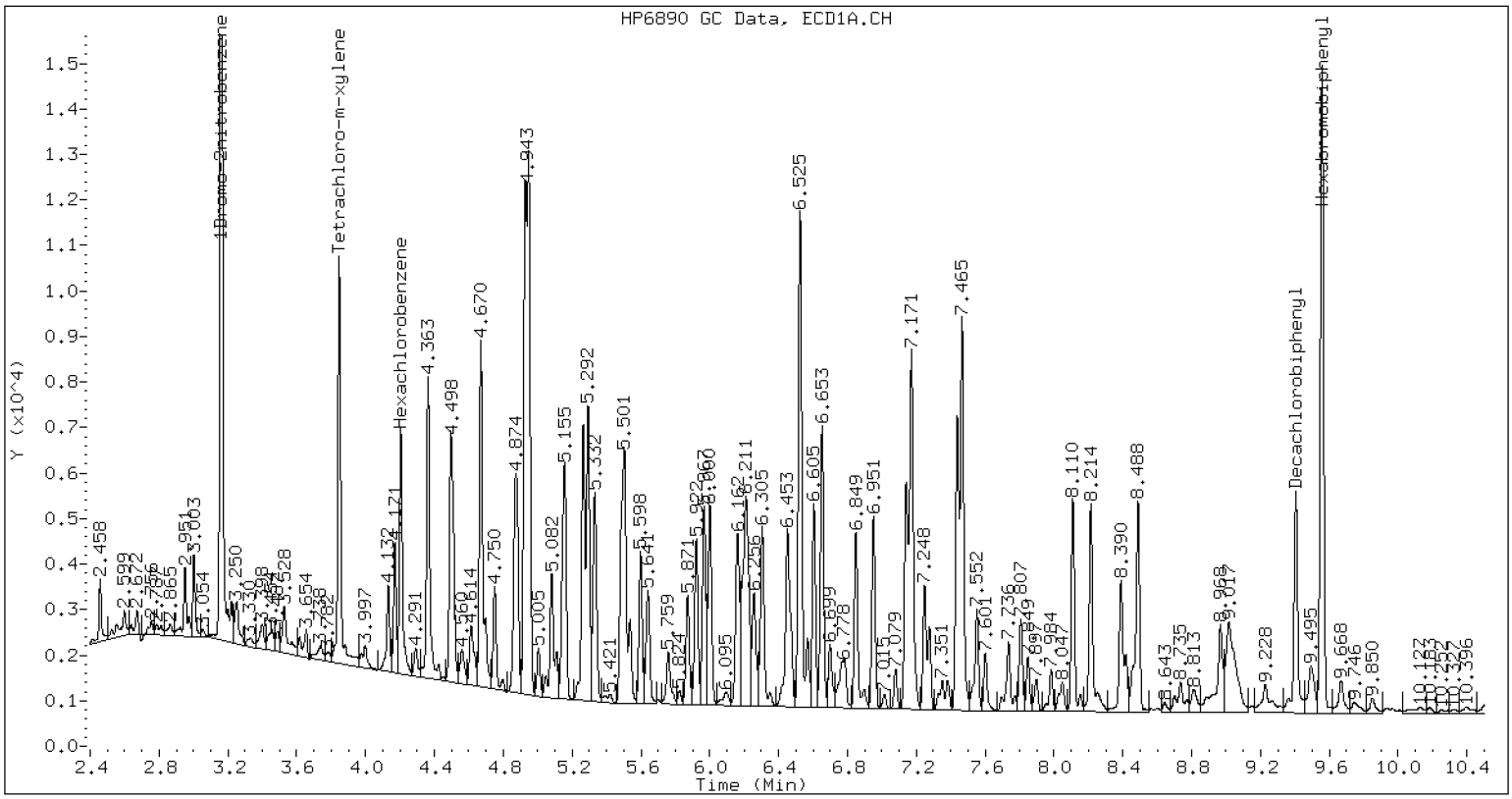
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	672426	551683	-18.0
Hexabromobiphenyl	609723	386577	-36.6

Column 2

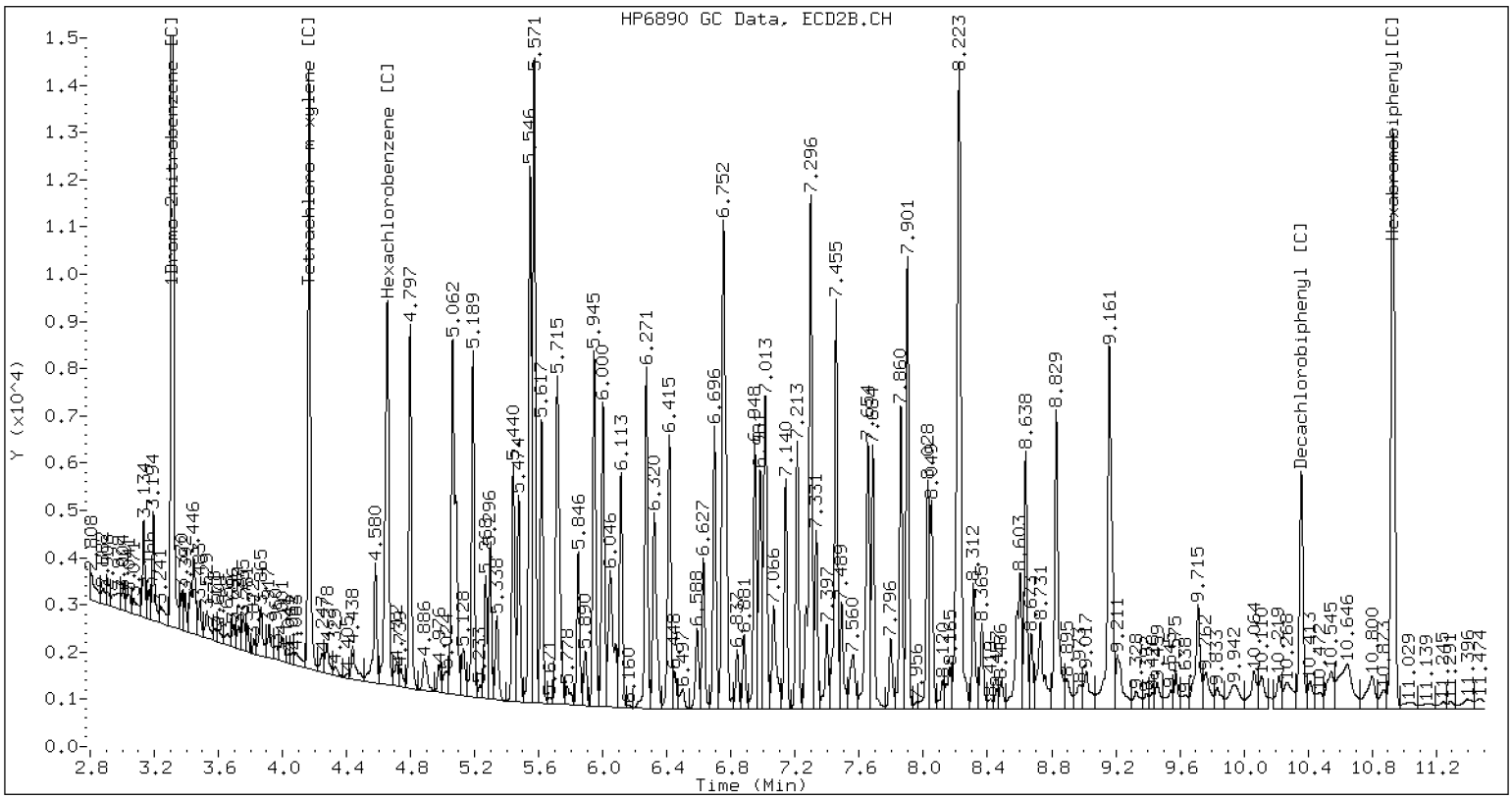
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1006482	702537	-30.2
Hexabromobiphenyl	769764	417698	-45.7

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

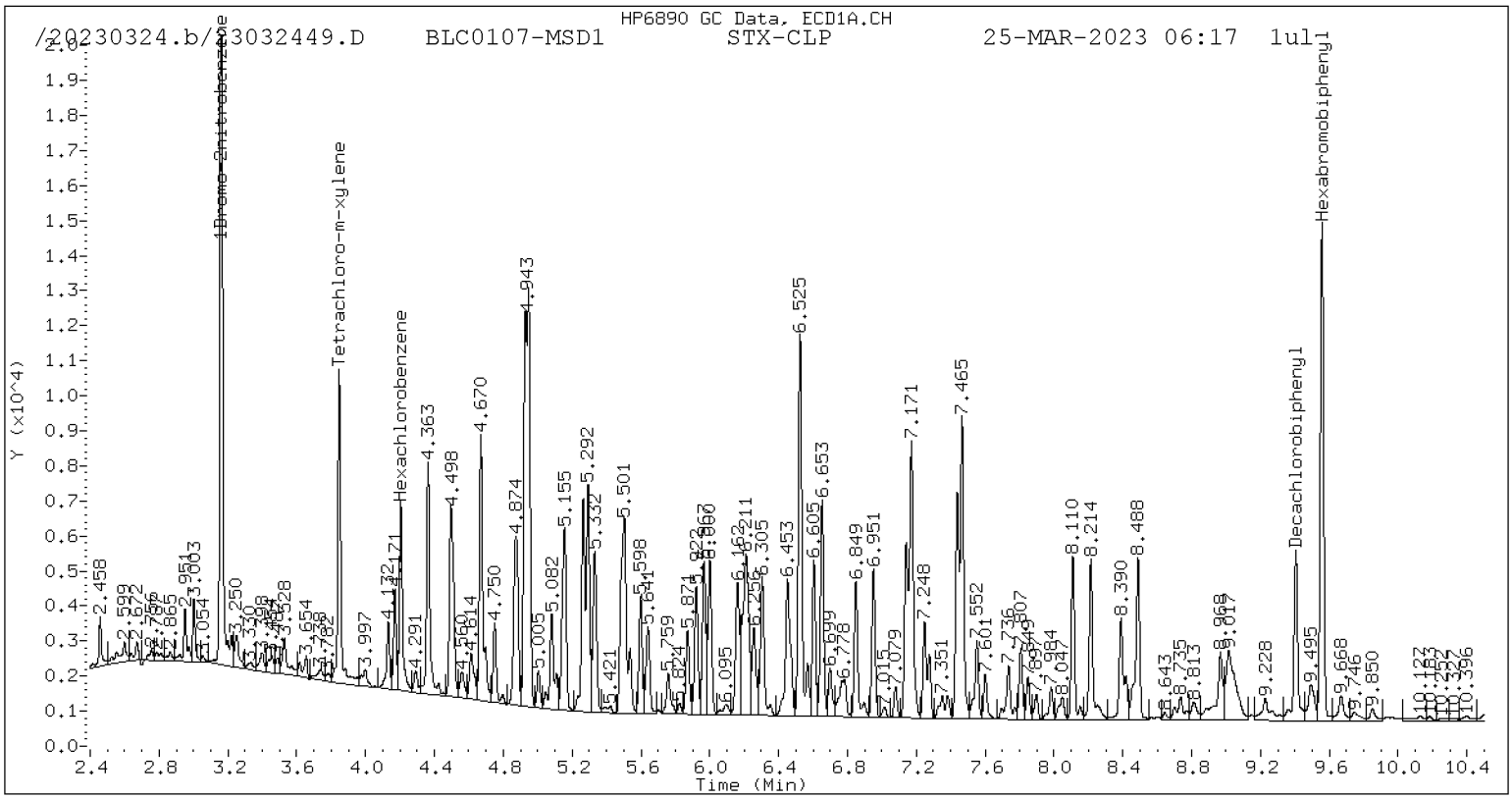
/20230324.b/23032449.D BLC0107-MSD1 STX-CLP 25-MAR-2023 06:17 1ul



/20230324.b/B20230324.b/23032449.D BLC0107-MSD1 CLP2 25-MAR-2023 06:17 1ul

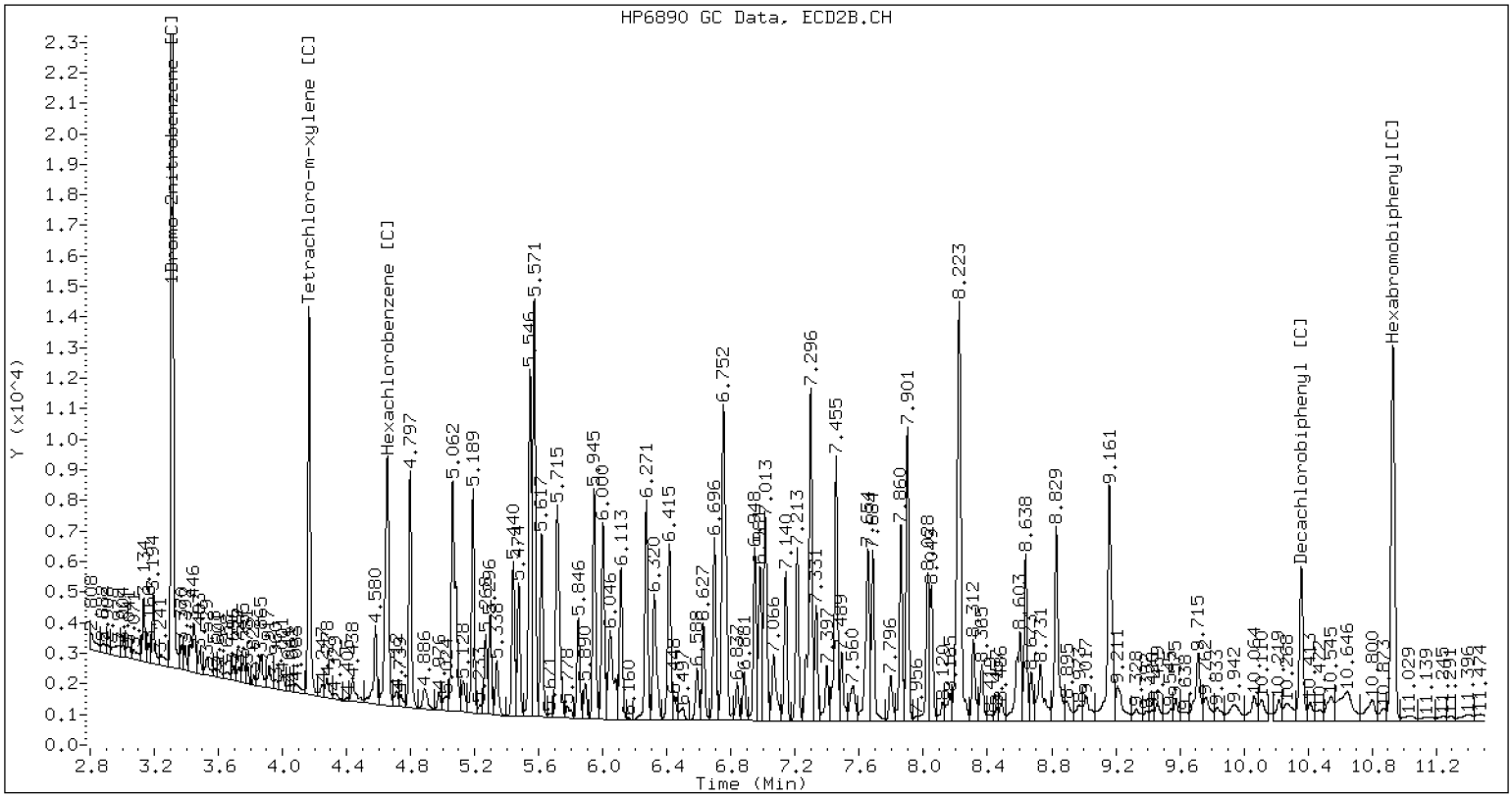


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: YES

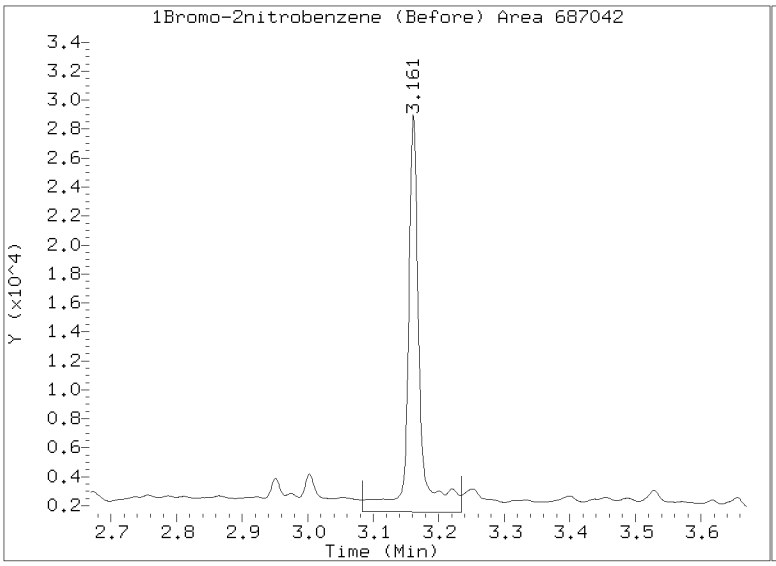
/20230324.b/B20230324.b/23032449.D BLC0107-MSD1 CLP2

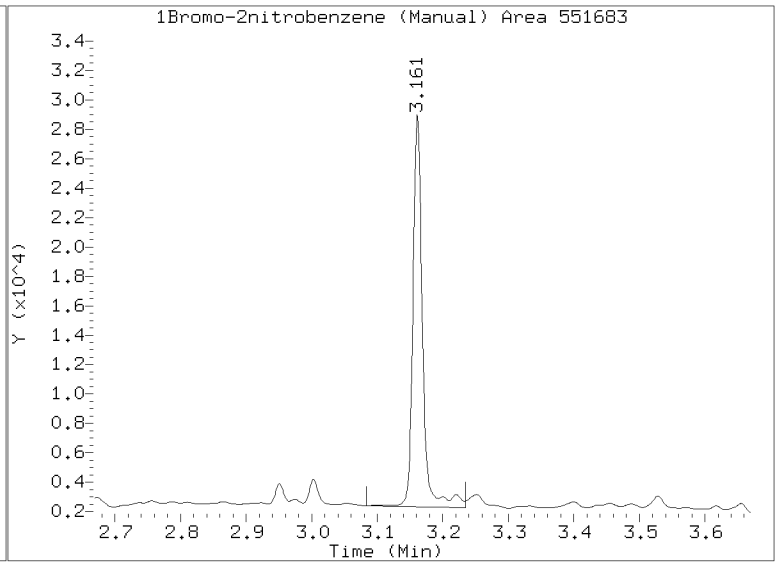


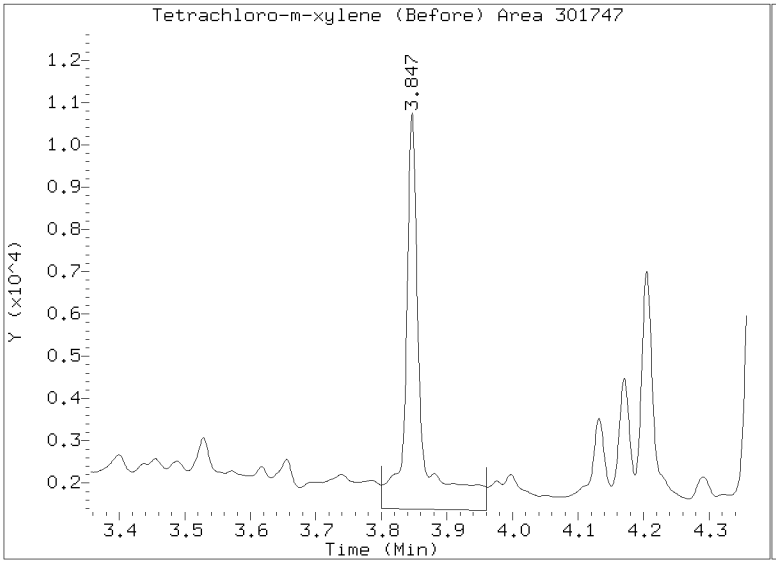
CLP-2 Manual Integration: NO

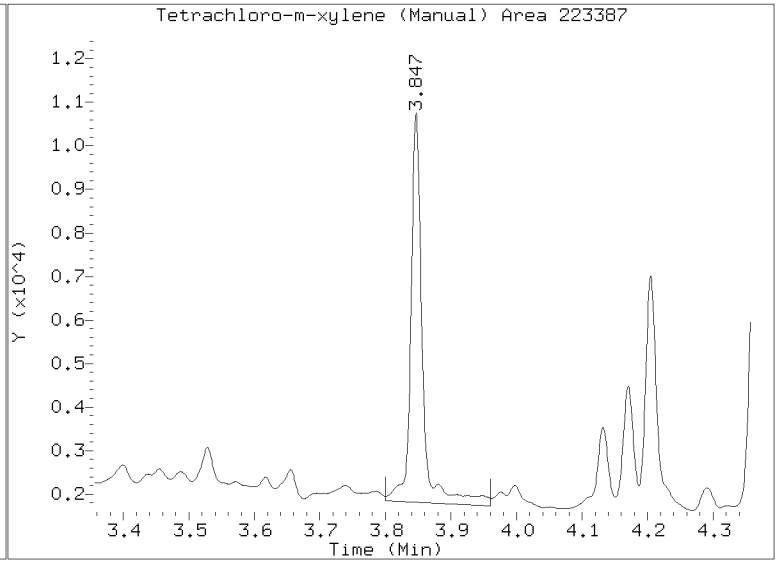
Manual Peak Adjustment Report, STX-CLP

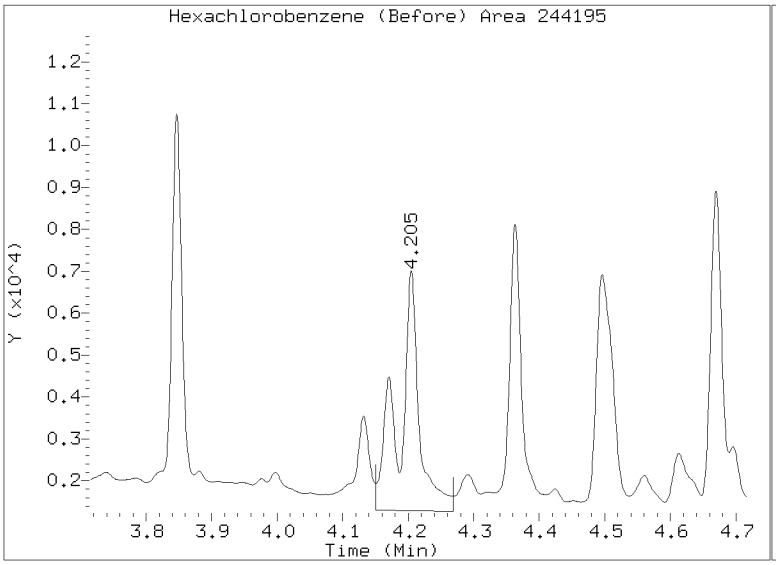
Datafile: /20230324.b/23032449.D
Injection Date: 25-MAR-2023 06:17
Lab ID:BLC0107-MSD1 Client ID:
Report Date: 03/28/2023 10:51

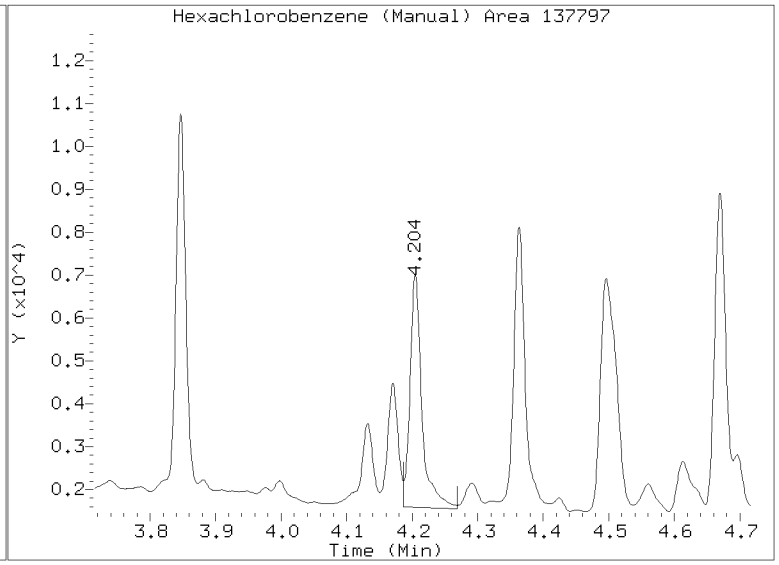












INITIAL CALIBRATION DATA

EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	FL00041	Instrument:	ECD6
Calibration Date:	12/14/2022	Column (1):	STX-CLP

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RRF	Conc	**RRF**	Conc	RRF	Conc	RRF	Conc	**RRF**	Conc	**RRF**
alpha-BHC			2.5	1.564682	5	1.558115	10	1.57359	20	1.566596	40	1.528219
beta-BHC			2.5	0.6501672	5	0.6116678	10	0.6049898	20	0.5910241	40	0.567415
gamma-BHC (Lindane)			2.5	1.364013	5	1.359107	10	1.367627	20	1.357913	40	1.317203
delta-BHC			2.5	1.267737	5	1.264366	10	1.278672	20	1.286232	40	1.255792
Heptachlor			2.5	1.26903	5	1.222902	10	1.218715	20	1.207966	40	1.145438
Aldrin			2.5	1.349967	5	1.349283	10	1.40535	20	1.372547	40	1.307197
Heptachlor Epoxide			2.5	1.231126	5	1.189593	10	1.20792	20	1.178021	40	1.104377
trans-Chlordane (beta-Chlordane)			2.5	1.262297	5	1.202181	10	1.202336	20	1.19062	40	1.128117
cis-Chlordane (alpha-chlordane)			2.5	1.308183	5	1.222582	10	1.200602	20	1.177182	40	1.111332
Endosulfan I			2.5	1.143813	5	1.097776	10	1.093658	20	1.076133	40	1.011287
4,4'-DDE			5	1.141182	10	1.108491	20	1.098369	40	1.077225	80	0.9961189
Dieldrin			5	1.225418	10	1.190449	20	1.185191	40	1.155764	80	1.077517
Endrin			5	1.158191	10	1.117563	20	1.079508	40	1.061387	80	0.9725989
Endosulfan II			5	0.9400399	10	0.9913797	20	1.005265	40	0.925043	80	0.9337917
4,4'-DDD			5	1.004568	10	0.9927897	20	0.9803235	40	0.9586353	80	0.8937077
Endrin Aldehyde			5	0.8167784	10	0.7834798	20	0.7706241	40	0.7573308	80	0.7147756
4,4'-DDT			5	1.007054	10	0.9936998	20	0.9768522	40	0.9722874	80	0.9123228
Endosulfan Sulfate			5	0.9534179	10	0.9413755	20	0.9158457	40	0.9056998	80	0.8542021
Endrin Ketone			5	1.134866	10	1.083274	20	1.043162	40	1.021136	80	0.9645492
Methoxychlor			25	0.4887243	50	0.4567517	100	0.4291758	200	0.4123964	400	0.380531
Hexachlorobutadiene			2.5	1.967135	5	1.727858	10	1.608612	20	1.550898	40	1.457962
Hexachlorobenzene			2.5	1.583946	5	1.509865	10	1.463674	20	1.414258	40	1.348389
Decachlorobiphenyl			5	0.9567749	10	0.8690419	20	0.8114883	40	0.7853665	80	0.7399881
Tetrachlorometaxylene			5	1.223478	10	1.154628	20	1.122612	40	1.064313	80	1.018952

INITIAL CALIBRATION DATA

EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	FL00041	Instrument:	ECD6
Calibration Date:	12/14/2022	Column (1):	STX-CLP

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
alpha-BHC	80	1.449687										
beta-BHC	80	0.5324503										
gamma-BHC (Lindane)	80	1.246178										
delta-BHC	80	1.199667										
Heptachlor	80	1.064858										
Aldrin	80	1.204866										
Heptachlor Epoxide	80	1.016142										
trans-Chlordane (beta-Chlordane)	80	1.050129										
cis-Chlordane (alpha-chlordane)	80	1.036345										
Endosulfan I	80	0.9344351										
4,4'-DDE	160	0.9196699										
Dieldrin	160	0.9953457										
Endrin	160	0.903669										
Endosulfan II	160	0.8694106										
4,4'-DDD	160	0.8394108										
Endrin Aldehyde	160	0.6754471										
4,4'-DDT	160	0.8666848										
Endosulfan Sulfate	160	0.808554										
Endrin Ketone	160	0.9150773										
Methoxychlor	800	0.3710888										
Hexachlorobutadiene	80	1.368623										
Hexachlorobenzene	80	1.259233										
2,4'-DDE					5	0.8703192	10	0.8471901	20	0.8231684	40	0.7887622
2,4'-DDD					5	0.761682	10	0.7418629	20	0.7301989	40	0.7053717
2,4'-DDT					5	0.8194572	10	0.8004965	20	0.7842725	40	0.7616258
Oxychlordane					5	1.016746	10	1.011016	20	0.9890796	40	0.9530961
cis-Nonachlor					5	1.323191	10	1.277938	20	1.243982	40	1.217703

INITIAL CALIBRATION DATA

EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	FL00041	Instrument:	ECD6
Calibration Date:	12/14/2022	Column (1):	STX-CLP

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
trans-Nonachlor					5	1.347777	10	1.328677	20	1.28535	40	1.249062
Mirex					5	0.8317764	10	0.8043457	20	0.7641487	40	0.7481553
Decachlorobiphenyl	160	0.7008722										
Tetrachlorometaxylene	160	0.9437243										

INITIAL CALIBRATION DATA

EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	FL00041	Instrument:	ECD6
Calibration Date:	12/14/2022	Column (1):	STX-CLP

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
2,4'-DDE	80	0.7262802	160	0.6559468								
2,4'-DDD	80	0.6522807	160	0.6001736								
2,4'-DDT	80	0.7135595	160	0.6495601								
Oxychlordane	80	0.9018234	160	0.8351028								
cis-Nonachlor	80	1.140435	160	1.065099								
trans-Nonachlor	80	1.167639	160	1.085646								
Mirex	80	0.706171	160	0.6667706								

INITIAL CALIBRATION DATA

EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	FL00041	Instrument:	ECD6
Calibration Date:	12/14/2022	Column (1):	STX-CLP

Compound	Level 19		Level 20		Level 21		Level 22		Level 23		Level 24	
	Conc		Conc		Conc		Conc		Conc		Conc	

INITIAL CALIBRATION DATA

EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	FL00041	Instrument:	ECD6
Calibration Date:	12/14/2022	Column (1):	STX-CLP

Compound	Level 25		Level 26		Level 27		Level 28		Level 29		Level 30	
	Conc		Conc		Conc		Conc		Conc		Conc	

INITIAL CALIBRATION DATA

EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	FL00041	Instrument:	ECD6
Calibration Date:	12/14/2022	Column (1):	STX-CLP

COMPOUND	Mean RRF	RRF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
alpha-BHC	1.540148	3.1			RSD (20)	
beta-BHC	0.5929524	6.8			RSD (20)	
gamma-BHC (Lindane)	1.33534	3.5			RSD (20)	
delta-BHC	1.258744	2.5			RSD (20)	
Heptachlor	1.188151	6.1			RSD (20)	
Aldrin	1.331535	5.2			RSD (20)	
Heptachlor Epoxide	1.15453	6.9			RSD (20)	
trans-Chlordane (beta-Chlordane)	1.172613	6.3			RSD (20)	
cis-Chlordane (alpha-chlordane)	1.176038	8.0			RSD (20)	
Endosulfan I	1.059517	7.1			RSD (20)	
4,4'-DDE	1.056843	7.9			RSD (20)	
Dieldrin	1.138281	7.6			RSD (20)	
Endrin	1.048819	9.0			RSD (20)	
Endosulfan II	0.944155	5.2			RSD (20)	
4,4'-DDD	0.9449058	6.9			RSD (20)	
Endrin Aldehyde	0.7530726	6.7			RSD (20)	
4,4'-DDT	0.9548168	5.7			RSD (20)	
Endosulfan Sulfate	0.8965158	6.2			RSD (20)	
Endrin Ketone	1.027011	7.7			RSD (20)	
Methoxychlor	0.4231113	10.6			RSD (20)	
Hexachlorobutadiene	1.613515	13.2			RSD (20)	
Hexachlorobenzene	1.429894	8.1			RSD (20)	
2,4'-DDE	0.7852778	10.3			RSD (20)	
2,4'-DDD	0.698595	8.8			RSD (20)	
2,4'-DDT	0.7548286	8.4			RSD (20)	
Oxychlordane	0.951144	7.5			RSD (20)	
cis-Nonachlor	1.211391	7.8			RSD (20)	
trans-Nonachlor	1.244025	8.1			RSD (20)	
Mirex	0.7535613	8.1			RSD (20)	
Decachlorobiphenyl	0.8105886	11.4			RSD (20)	
Tetrachlorometaxylene	1.087951	9.2			RSD (20)	

INITIAL CALIBRATION DATA

EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	FL00041	Instrument:	ECD6
Calibration Date:	12/14/2022	Column (2):	STX-CLPII

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RRF	Conc	**RRF**	Conc	RRF	Conc	RRF	Conc	**RRF**	Conc	**RRF**
alpha-BHC [2C]			2.5	1.582358	5	1.586238	10	1.633164	20	1.640486	40	1.615441
beta-BHC [2C]			2.5	0.652782	5	0.6172948	10	0.6184608	20	0.6125812	40	0.5918008
gamma-BHC (Lindane) [2C]			2.5	1.355071	5	1.348783	10	1.381456	20	1.392772	40	1.366606
delta-BHC [2C]			2.5	1.323764	5	1.307234	10	1.339425	20	1.328433	40	1.331977
Heptachlor [2C]			2.5	1.270249	5	1.234236	10	1.258409	20	1.272245	40	1.215755
Aldrin [2C]			2.5	1.511397	5	1.416724	10	1.432636	20	1.430376	40	1.370917
Heptachlor Epoxide [2C]			2.5	1.2977	5	1.174596	10	1.174288	20	1.174706	40	1.114434
trans-Chlordane (beta-Chlordane) [2C]			2.5	1.25449	5	1.176102	10	1.164843	20	1.168848	40	1.125534
cis-Chlordane (alpha-chlordane) [2C]			2.5	1.258498	5	1.153199	10	1.135052	20	1.136251	40	1.089792
Endosulfan I [2C]			2.5	1.118263	5	1.044155	10	1.035412	20	1.034697	40	0.9885012
4,4'-DDE [2C]			5	1.120237	10	1.069625	20	1.064387	40	1.055415	80	0.9897135
Dieldrin [2C]			5	1.270008	10	1.162844	20	1.139359	40	1.136098	80	1.071389
Endrin [2C]			5	1.256912	10	1.17909	20	1.159477	40	1.149599	80	1.066056
Endosulfan II [2C]			5	1.296819	10	1.202961	20	1.188491	40	1.160501	80	1.099056
4,4'-DDD [2C]			5	1.234482	10	1.121556	20	1.117792	40	1.112003	80	1.04628
Endrin Aldehyde [2C]			5	0.9430111	10	0.8430348	20	0.8249196	40	0.8129946	80	0.7727701
4,4'-DDT [2C]			5	1.175911	10	1.077825	20	1.067612	40	1.073272	80	1.019364
Endosulfan Sulfate [2C]			5	1.137768	10	1.042553	20	1.030373	40	1.023023	80	0.9721732
Endrin Ketone [2C]			5	1.235631	10	1.119988	20	1.114405	40	1.100852	80	1.047659
Methoxychlor [2C]			25	0.5184064	50	0.4866753	100	0.4751666	200	0.4681736	400	0.4433957
Hexachlorobutadiene [2C]			2.5	1.975612	5	1.648845	10	1.492482	20	1.376096	40	1.341211
Hexachlorobenzene [2C]			2.5	1.602215	5	1.520618	10	1.491402	20	1.450251	40	1.385947
Decachlorobiphenyl [2C]			5	1.087142	10	0.9391597	20	0.8562421	40	0.8499592	80	0.8013928
Tetrachlorometaxylene [2C]			5	1.220863	10	1.179368	20	1.164832	40	1.127982	80	1.06878

INITIAL CALIBRATION DATA

EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	FL00041	Instrument:	ECD6
Calibration Date:	12/14/2022	Column (2):	STX-CLPII

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
alpha-BHC [2C]	80	1.561903										
beta-BHC [2C]	80	0.5642956										
gamma-BHC (Lindane) [2C]	80	1.31891										
delta-BHC [2C]	80	1.29291										
Heptachlor [2C]	80	1.144118										
Aldrin [2C]	80	1.281263										
Heptachlor Epoxide [2C]	80	1.046144										
trans-Chlordane (beta-Chlordane) [2C]	80	1.072685										
cis-Chlordane (alpha-chlordane) [2C]	80	1.03859										
Endosulfan I [2C]	80	0.9325836										
4,4'-DDE [2C]	160	0.9356313										
Dieldrin [2C]	160	1.019365										
Endrin [2C]	160	1.013782										
Endosulfan II [2C]	160	1.047801										
4,4'-DDD [2C]	160	1.006382										
Endrin Aldehyde [2C]	160	0.7380269										
4,4'-DDT [2C]	160	0.9933936										
Endosulfan Sulfate [2C]	160	0.9372514										
Endrin Ketone [2C]	160	1.016567										
Methoxychlor [2C]	800	0.4436418										
Hexachlorobutadiene [2C]	80	1.300813										
Hexachlorobenzene [2C]	80	1.304223										
2,4'-DDE [2C]					5	0.8343307	10	0.8052418	20	0.7431295	40	0.7258871
2,4'-DDD [2C]					5	0.9097548	10	0.8797099	20	0.8273813	40	0.8164191
2,4'-DDT [2C]					5	0.9400077	10	0.8804604	20	0.8502582	40	0.8485216
Oxychlordane [2C]					5	0.9644685	10	0.9467754	20	0.9033255	40	0.8966281
cis-Nonachlor [2C]					5	1.449238	10	1.407074	20	1.376474	40	1.372123

INITIAL CALIBRATION DATA

EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	FL00041	Instrument:	ECD6
Calibration Date:	12/14/2022	Column (2):	STX-CLPII

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
trans-Nonachlor [2C]					5	1.488853	10	1.51762	20	1.451789	40	1.447663
Mirex [2C]					5	0.9331395	10	0.8115521	20	0.7946205	40	0.762682
Decachlorobiphenyl [2C]	160	0.7711875										
Tetrachlorometaxylene [2C]	160	0.9948184										

INITIAL CALIBRATION DATA

EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	FL00041	Instrument:	ECD6
Calibration Date:	12/14/2022	Column (2):	STX-CLPII

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
2,4'-DDE [2C]	80	0.6667087	160	0.6020159								
2,4'-DDD [2C]	80	0.76623	160	0.7136982								
2,4'-DDT [2C]	80	0.7977257	160	0.7424898								
Oxychlordane [2C]	80	0.8433342	160	0.7909247								
cis-Nonachlor [2C]	80	1.313286	160	1.248174								
trans-Nonachlor [2C]	80	1.376815	160	1.306683								
Mirex [2C]	80	0.7399752	160	0.7075065								

INITIAL CALIBRATION DATA

EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	FL00041	Instrument:	ECD6
Calibration Date:	12/14/2022	Column (2):	STX-CLPII

Compound	Level 19		Level 20		Level 21		Level 22		Level 23		Level 24	
	Conc		Conc		Conc		Conc		Conc		Conc	

INITIAL CALIBRATION DATA

EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	FL00041	Instrument:	ECD6
Calibration Date:	12/14/2022	Column (2):	STX-CLPII

Compound	Level 25		Level 26		Level 27		Level 28		Level 29		Level 30	
	Conc		Conc		Conc		Conc		Conc		Conc	

INITIAL CALIBRATION DATA

EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	FL00041	Instrument:	ECD6
Calibration Date:	12/14/2022	Column (2):	STX-CLPII

COMPOUND	Mean RRF	RRF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
alpha-BHC [2C]	1.603265	1.9			RSD (20)	
beta-BHC [2C]	0.6095359	4.9			RSD (20)	
gamma-BHC (Lindane) [2C]	1.3606	1.9			RSD (20)	
delta-BHC [2C]	1.320624	1.3			RSD (20)	
Heptachlor [2C]	1.232502	3.9			RSD (20)	
Aldrin [2C]	1.407219	5.4			RSD (20)	
Heptachlor Epoxide [2C]	1.163645	7.1			RSD (20)	
trans-Chlordane (beta-Chlordane) [2C]	1.160417	5.2			RSD (20)	
cis-Chlordane (alpha-chlordane) [2C]	1.13523	6.5			RSD (20)	
Endosulfan I [2C]	1.025602	6.0			RSD (20)	
4,4'-DDE [2C]	1.039168	6.3			RSD (20)	
Dieldrin [2C]	1.133177	7.5			RSD (20)	
Endrin [2C]	1.137486	7.6			RSD (20)	
Endosulfan II [2C]	1.165938	7.4			RSD (20)	
4,4'-DDD [2C]	1.106416	7.0			RSD (20)	
Endrin Aldehyde [2C]	0.8224595	8.5			RSD (20)	
4,4'-DDT [2C]	1.067896	5.9			RSD (20)	
Endosulfan Sulfate [2C]	1.023857	6.7			RSD (20)	
Endrin Ketone [2C]	1.10585	6.8			RSD (20)	
Methoxychlor [2C]	0.4725766	6.0			RSD (20)	
Hexachlorobutadiene [2C]	1.52251	16.8			RSD (20)	
Hexachlorobenzene [2C]	1.459109	7.2			RSD (20)	
2,4'-DDE [2C]	0.7295523	11.8			RSD (20)	
2,4'-DDD [2C]	0.8188656	8.8			RSD (20)	
2,4'-DDT [2C]	0.8432439	8.1			RSD (20)	
Oxychlordane [2C]	0.8909094	7.3			RSD (20)	
cis-Nonachlor [2C]	1.361061	5.2			RSD (20)	
trans-Nonachlor [2C]	1.43157	5.4			RSD (20)	
Mirex [2C]	0.7915793	9.9			RSD (20)	
Decachlorobiphenyl [2C]	0.8841805	13.0			RSD (20)	
Tetrachlorometaxylene [2C]	1.126107	7.3			RSD (20)	

Printed: 12/17/2022 10:57:45AM

ANALYSIS SEQUENCE

SKL0233

Instrument: ECD6 Element Column ID:
Calibration ID: FL00041

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	Comments
SKL0233-PEM1	DS1	QC		1	K007286	K006953		
SKL0233-CAL1	INDAA	QC		2	K011594	K006953		
SKL0233-CAL2	INDAB	QC		3	K011593	K006953		
SKL0233-CAL3	INDAC	QC		4	K011592	K006953		
SKL0233-CAL4	INDAD	QC		5	K011591	K006953		
SKL0233-CAL5	INDAE	QC		6	K011590	K006953		
SKL0233-CAL6	INDAF	QC		7	K011589	K006953		
SKL0233-CAL7	INDAG	QC		8	K011463	K006953		
SKL0233-CAL8	WNDA	QC		9	K011595	K006953		
SKL0233-CAL9	WNDB	QC		10	K007148	K006953		
SKL0233-CALA	WNDC	QC		11	K007147	K006953		
SKL0233-CALB	WNDD	QC		12	K007146	K006953		
SKL0233-CALC	WNDE	QC		13	K007145	K006953		
SKL0233-CALD	WNDF	QC		14	K007144	K006953		
SKL0233-CALE	WNDG	QC		15	K007093	K006953		
SKL0233-CALM	NOS1	QC		16	K007375	K006953		
SKL0233-CALN	NOS2	QC		17	K007374	K006953		
SKL0233-CALO	NOS3	QC		18	K007373	K006953		
SKL0233-CALP	NOS4	QC		19	K007372	K006953		
SKL0233-CALQ	NOS5	QC		20	K007371	K006953		
SKL0233-CALR	NOS6	QC		21	K007370	K006953		
SKL0233-CALS	NOS7	QC		22	K007287	K006953		

Printed: 12/17/2022 10:57:45AM

ANALYSIS SEQUENCE

SKL0233

Instrument: ECD6 Element Column ID:
Calibration ID: FL00041

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	Comments
SKL0233-CALF	TOXAPH1	QC		23	K011601	K006953		
SKL0233-CALG	TOXAPH2	QC		24	K011600	K006953		
SKL0233-CALH	TOXAPH3	QC		25	K011599	K006953		
SKL0233-CALI	TOXAPH4	QC		26	K011598	K006953		
SKL0233-CALJ	TOXAPH5	QC		27	K011597	K006953		
SKL0233-CALK	TOXAPH6	QC		28	K011596	K006953		
SKL0233-CALL	TOXAPH7	QC		29	K008546	K006953		

GC LOG SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b

	Inject Date/Time	Filename	DF	LabID	ClientID
1	14-DEC-2022 19:27	22121401.D	1	RINSE	
2	14-DEC-2022 19:44	22121402.D	1	RINSE	
3	14-DEC-2022 20:02	22121403.D	1	SEQ-IBL1	
4	14-DEC-2022 20:20	22121404.D	1	SEQ-PEM1	
5	14-DEC-2022 20:38	22121405.D	1	SEQ-CAL1	
6	14-DEC-2022 20:56	22121406.D	1	SEQ-CAL2	
7	14-DEC-2022 21:14	22121407.D	1	SEQ-CAL3	
8	14-DEC-2022 21:31	22121408.D	1	SEQ-CAL4	
9	14-DEC-2022 21:49	22121409.D	1	SEQ-CAL5	
10	14-DEC-2022 22:07	22121410.D	1	SEQ-CAL6	
11	14-DEC-2022 22:25	22121411.D	1	SEQ-CAL7	
12	14-DEC-2022 22:43	22121412.D	1	SEQ-CAL8	
13	14-DEC-2022 23:01	22121413.D	1	SEQ-CAL9	
14	14-DEC-2022 23:19	22121414.D	1	SEQ-CALA	
15	14-DEC-2022 23:36	22121415.D	1	SEQ-CALB	
16	14-DEC-2022 23:54	22121416.D	1	SEQ-CALC	
17	15-DEC-2022 00:12	22121417.D	1	SEQ-CALD	
18	15-DEC-2022 00:30	22121418.D	1	SEQ-CALE	
19	15-DEC-2022 00:48	22121419.D	1	SEQ-SCV1	
20	15-DEC-2022 01:06	22121420.D	1	SEQ-SCV2	
21	15-DEC-2022 01:24	22121421.D	1	SEQ-CAL1A	
22	15-DEC-2022 01:42	22121422.D	1	SEQ-CAL2A	
23	15-DEC-2022 01:59	22121423.D	1	SEQ-CAL3A	
24	15-DEC-2022 02:17	22121424.D	1	SEQ-CAL4A	
25	15-DEC-2022 02:35	22121425.D	1	SEQ-CAL5A	
26	15-DEC-2022 02:53	22121426.D	1	SEQ-CAL6A	
27	15-DEC-2022 03:11	22121427.D	1	SEQ-CAL7A	
28	15-DEC-2022 03:29	22121428.D	1	SEQ-CAL8A	
29	15-DEC-2022 03:46	22121429.D	1	SEQ-CAL9A	
30	15-DEC-2022 04:04	22121430.D	1	SEQ-CALAA	
31	15-DEC-2022 04:22	22121431.D	1	SEQ-CALAB	
32	15-DEC-2022 04:40	22121432.D	1	SEQ-CALAC	
33	15-DEC-2022 04:58	22121433.D	1	SEQ-CALAD	
34	15-DEC-2022 05:16	22121434.D	1	SEQ-CALAE	
35	15-DEC-2022 05:33	22121435.D	1	SEQ-PEM2	
36	15-DEC-2022 05:51	22121436.D	1	SEQ-ICV1	
37	15-DEC-2022 06:09	22121437.D	1	SEQ-ICV2	
38	15-DEC-2022 06:27	22121438.D	1	SEQ-ICV3	
39	15-DEC-2022 06:45	22121439.D	1	SEQ-ICV4	
40	15-DEC-2022 07:03	22121440.D	1	BKK0688-BLK1	
41	15-DEC-2022 07:21	22121441.D	1	BKK0688-BS1	
42	15-DEC-2022 07:39	22121442.D	1	BKK0688-BS2	
43	15-DEC-2022 07:57	22121443.D	1	BKK0688-BS3	
44	15-DEC-2022 08:15	22121444.D	1	BKK0688-BSD1	
45	15-DEC-2022 08:32	22121445.D	1	BKK0142-BLK1	
46	15-DEC-2022 08:50	22121446.D	1	BKK0142-BS1	
47	15-DEC-2022 09:08	22121447.D	1	BKK0142-BS2	
48	15-DEC-2022 09:26	22121448.D	1	BKK0142-BSD1	
49	15-DEC-2022 09:44	22121449.D	1	BKK0142-MS1	
50	15-DEC-2022 10:02	22121450.D	1	BKK0142-MSD1	

GC LOG SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b p

	Inject Date/Time	Filename	DF	LabID	ClientID
51	15-DEC-2022 10:20	22121451.D	1	22J0513-01	
52	15-DEC-2022 10:38	22121452.D	1	22J0513-04	
53	15-DEC-2022 10:55	22121453.D	1	22J0535-01	
54	15-DEC-2022 11:13	22121454.D	1	22K0429-01	
55	15-DEC-2022 11:31	22121455.D	1	22K0429-02	
56	15-DEC-2022 11:49	22121456.D	1	22K0429-03	
57	15-DEC-2022 12:07	22121457.D	1	SEQ-PEM3	
58	15-DEC-2022 12:25	22121458.D	1	SEQ-CCV1	
59	15-DEC-2022 12:43	22121459.D	1	SEQ-CCV2	
60	15-DEC-2022 13:01	22121460.D	1	SEQ-CCV3	
61	15-DEC-2022 13:19	22121461.D	1	SEQ-CCV4	
62	15-DEC-2022 13:36	22121462.D	1	BKK0380-BLK1	
63	15-DEC-2022 13:54	22121463.D	1	BKK0380-BS1	
64	15-DEC-2022 14:12	22121464.D	1	BKK0380-BSD1	
65	15-DEC-2022 14:30	22121465.D	1	22K0157-01	
66	15-DEC-2022 14:48	22121466.D	1	22K0230-01	
67	15-DEC-2022 15:06	22121467.D	1	22K0231-01	
68	15-DEC-2022 15:24	22121468.D	1	BKK0382-BLK1	
69	15-DEC-2022 15:42	22121469.D	1	BKK0382-BS1	
70	15-DEC-2022 16:00	22121470.D	1	BKK0382-BS2	
71	15-DEC-2022 16:18	22121471.D	1	BKK0382-BSD1	
72	15-DEC-2022 16:35	22121472.D	1	22K0075-01	
73	15-DEC-2022 16:53	22121473.D	1	SEQ-PEM4	
74	15-DEC-2022 17:11	22121474.D	1	SEQ-CCV5	
75	15-DEC-2022 17:29	22121475.D	1	SEQ-CCV6	
76	15-DEC-2022 17:47	22121476.D	1	SEQ-CCV7	
77	15-DEC-2022 18:05	22121477.D	1	SEQ-CCV8	
78	15-DEC-2022 18:23	22121478.D	1	BKK0537-BLK1	
79	15-DEC-2022 18:40	22121479.D	1	BKK0537-BS1	
80	15-DEC-2022 18:58	22121480.D	1	BKK0537-BS2	
81	15-DEC-2022 19:16	22121481.D	1	22K0194-01	
82	15-DEC-2022 19:34	22121482.D	1	22K0194-01RE1	10
83	15-DEC-2022 19:52	22121483.D	1	SEQ-PEM5	
84	15-DEC-2022 20:09	22121484.D	1	SEQ-CCV9	
85	15-DEC-2022 20:27	22121485.D	1	SEQ-CCVA	
86	15-DEC-2022 20:45	22121486.D	1	SEQ-CCVB	
87	15-DEC-2022 21:03	22121487.D	1	SEQ-CCVC	

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b

ARI Job No.: RINS Method: PEST.m Instrument: ecd6.i Date: 14-DEC-2022

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1927	22121401.D	RINSE		1	NO MANUAL INTEGRATION
1944	22121402.D	RINSE		1	NO MANUAL INTEGRATION
2002	22121403.D	SEQ-IBL1		1	NO MANUAL INTEGRATION
2020	22121404.D	SEQ-PEM1		1	NO MANUAL INTEGRATION
2038	22121405.D	SEQ-CAL1		1	NO MANUAL INTEGRATION
2056	22121406.D	SEQ-CAL2		1	NO MANUAL INTEGRATION
2114	22121407.D	SEQ-CAL3		1	NO MANUAL INTEGRATION
2131	22121408.D	SEQ-CAL4		1	NO MANUAL INTEGRATION
2149	22121409.D	SEQ-CAL5		1	NO MANUAL INTEGRATION
2207	22121410.D	SEQ-CAL6		1	NO MANUAL INTEGRATION
2225	22121411.D	SEQ-CAL7		1	NO MANUAL INTEGRATION
2243	22121412.D	SEQ-CAL8		1	NO MANUAL INTEGRATION
2301	22121413.D	SEQ-CAL9		1	NO MANUAL INTEGRATION
2319	22121414.D	SEQ-CALA		1	NO MANUAL INTEGRATION
2336	22121415.D	SEQ-CALB		1	NO MANUAL INTEGRATION
2354	22121416.D	SEQ-CALC		1	NO MANUAL INTEGRATION
0012	22121417.D	SEQ-CALD		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0030	22121418.D	SEQ-CALE		1	NO MANUAL INTEGRATION
0048	22121419.D	SEQ-SCV1		1	NO MANUAL INTEGRATION
0106	22121420.D	SEQ-SCV2		1	NO MANUAL INTEGRATION
0124	22121421.D	SEQ-CAL1A		1	NO MANUAL INTEGRATION
0142	22121422.D	SEQ-CAL2A		1	NO MANUAL INTEGRATION
0159	22121423.D	SEQ-CAL3A		1	NO MANUAL INTEGRATION
0217	22121424.D	SEQ-CAL4A		1	NO MANUAL INTEGRATION
0235	22121425.D	SEQ-CAL5A		1	NO MANUAL INTEGRATION
0253	22121426.D	SEQ-CAL6A		1	NO MANUAL INTEGRATION
0311	22121427.D	SEQ-CAL7A		1	NO MANUAL INTEGRATION
0329	22121428.D	SEQ-CAL8A		1	NO MANUAL INTEGRATION
0346	22121429.D	SEQ-CAL9A		1	NO MANUAL INTEGRATION
0404	22121430.D	SEQ-CALAA		1	NO MANUAL INTEGRATION
0422	22121431.D	SEQ-CALAB		1	NO MANUAL INTEGRATION
0440	22121432.D	SEQ-CALAC		1	NO MANUAL INTEGRATION
0458	22121433.D	SEQ-CALAD		1	NO MANUAL INTEGRATION
0516	22121434.D	SEQ-CALAE		1	NO MANUAL INTEGRATION
0533	22121435.D	SEQ-PEM2		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0551	22121436.D	SEQ-ICV1		1	NO MANUAL INTEGRATION
0609	22121437.D	SEQ-ICV2		1	NO MANUAL INTEGRATION
0627	22121438.D	SEQ-ICV3		1	NO MANUAL INTEGRATION
0645	22121439.D	SEQ-ICV4		1	NO MANUAL INTEGRATION
0703	22121440.D	BKK0688-BLK1		1	NO MANUAL INTEGRATION
0721	22121441.D	BKK0688-BS1		1	NO MANUAL INTEGRATION
0739	22121442.D	BKK0688-BS2		1	NO MANUAL INTEGRATION
0757	22121443.D	BKK0688-BS3		1	NO MANUAL INTEGRATION
0815	22121444.D	BKK0688-BSD1		1	NO MANUAL INTEGRATION
0832	22121445.D	BKK0142-BLK1		1	NO MANUAL INTEGRATION
0850	22121446.D	BKK0142-BS1		1	NO MANUAL INTEGRATION
0908	22121447.D	BKK0142-BS2		1	NO MANUAL INTEGRATION
0926	22121448.D	BKK0142-BSD1		1	NO MANUAL INTEGRATION
0944	22121449.D	BKK0142-MS1		1	NO MANUAL INTEGRATION
1002	22121450.D	BKK0142-MSD1		1	NO MANUAL INTEGRATION
1020	22121451.D	22J0513-01		1	NO MANUAL INTEGRATION
1038	22121452.D	22J0513-04		1	NO MANUAL INTEGRATION
1055	22121453.D	22J0535-01		1	trans-Chlordane,

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1113	22121454.D	22K0429-01		1	Heptachlor epoxide b,
1131	22121455.D	22K0429-02		1	Heptachlor epoxide b,
1149	22121456.D	22K0429-03		1	Hexachlorobenzene,
1207	22121457.D	SEQ-PEM3		1	NO MANUAL INTEGRATION
1225	22121458.D	SEQ-CCV1		1	NO MANUAL INTEGRATION
1243	22121459.D	SEQ-CCV2		1	NO MANUAL INTEGRATION
1301	22121460.D	SEQ-CCV3		1	NO MANUAL INTEGRATION
1319	22121461.D	SEQ-CCV4		1	NO MANUAL INTEGRATION
1336	22121462.D	BKK0380-BLK1		1	NO MANUAL INTEGRATION
1354	22121463.D	BKK0380-BS1		1	NO MANUAL INTEGRATION
1412	22121464.D	BKK0380-BSD1		1	NO MANUAL INTEGRATION
1430	22121465.D	22K0157-01		1	NO MANUAL INTEGRATION
1448	22121466.D	22K0230-01		1	NO MANUAL INTEGRATION
1506	22121467.D	22K0231-01		1	NO MANUAL INTEGRATION
1524	22121468.D	BKK0382-BLK1		1	NO MANUAL INTEGRATION
1542	22121469.D	BKK0382-BS1		1	NO MANUAL INTEGRATION
1600	22121470.D	BKK0382-BS2		1	NO MANUAL INTEGRATION
1618	22121471.D	BKK0382-BSD1		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1635	22121472.D	22K0075-01		1	NO MANUAL INTEGRATION
1653	22121473.D	SEQ-PEM4		1	NO MANUAL INTEGRATION
1711	22121474.D	SEQ-CCV5		1	NO MANUAL INTEGRATION
1729	22121475.D	SEQ-CCV6		1	NO MANUAL INTEGRATION
1747	22121476.D	SEQ-CCV7		1	NO MANUAL INTEGRATION
1805	22121477.D	SEQ-CCV8		1	NO MANUAL INTEGRATION
1823	22121478.D	BKK0537-BLK1		1	NO MANUAL INTEGRATION
1840	22121479.D	BKK0537-BS1		1	NO MANUAL INTEGRATION
1858	22121480.D	BKK0537-BS2		1	NO MANUAL INTEGRATION
1916	22121481.D	22K0194-01		1	NO MANUAL INTEGRATION
1934	22121482.D	22K0194-01RE1	10	1	NO MANUAL INTEGRATION
1952	22121483.D	SEQ-PEM5		1	NO MANUAL INTEGRATION
2009	22121484.D	SEQ-CCV9		1	NO MANUAL INTEGRATION
2027	22121485.D	SEQ-CCVA		1	NO MANUAL INTEGRATION
2045	22121486.D	SEQ-CCVB		1	NO MANUAL INTEGRATION
2103	22121487.D	SEQ-CCVC		1	NO MANUAL INTEGRATION
1927	22121401.D	RINSE		1	NO MANUAL INTEGRATION
1944	22121402.D	RINSE		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b\B20221214.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
2002	22121403.D	SEQ-IBL1		1	NO MANUAL INTEGRATION
2020	22121404.D	SEQ-PEM1		1	NO MANUAL INTEGRATION
2038	22121405.D	SEQ-CAL1		1	NO MANUAL INTEGRATION
2056	22121406.D	SEQ-CAL2		1	NO MANUAL INTEGRATION
2114	22121407.D	SEQ-CAL3		1	NO MANUAL INTEGRATION
2131	22121408.D	SEQ-CAL4		1	NO MANUAL INTEGRATION
2149	22121409.D	SEQ-CAL5		1	NO MANUAL INTEGRATION
2207	22121410.D	SEQ-CAL6		1	NO MANUAL INTEGRATION
2225	22121411.D	SEQ-CAL7		1	NO MANUAL INTEGRATION
2243	22121412.D	SEQ-CAL8		1	NO MANUAL INTEGRATION
2301	22121413.D	SEQ-CAL9		1	NO MANUAL INTEGRATION
2319	22121414.D	SEQ-CALA		1	NO MANUAL INTEGRATION
2336	22121415.D	SEQ-CALB		1	NO MANUAL INTEGRATION
2354	22121416.D	SEQ-CALC		1	NO MANUAL INTEGRATION
0012	22121417.D	SEQ-CALD		1	NO MANUAL INTEGRATION
0030	22121418.D	SEQ-CALE		1	NO MANUAL INTEGRATION
0048	22121419.D	SEQ-SCV1		1	NO MANUAL INTEGRATION
0106	22121420.D	SEQ-SCV2		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b\B20221214.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0124	22121421.D	SEQ-CAL1A		1	NO MANUAL INTEGRATION
0142	22121422.D	SEQ-CAL2A		1	NO MANUAL INTEGRATION
0159	22121423.D	SEQ-CAL3A		1	NO MANUAL INTEGRATION
0217	22121424.D	SEQ-CAL4A		1	NO MANUAL INTEGRATION
0235	22121425.D	SEQ-CAL5A		1	NO MANUAL INTEGRATION
0253	22121426.D	SEQ-CAL6A		1	NO MANUAL INTEGRATION
0311	22121427.D	SEQ-CAL7A		1	NO MANUAL INTEGRATION
0329	22121428.D	SEQ-CAL8A		1	NO MANUAL INTEGRATION
0346	22121429.D	SEQ-CAL9A		1	NO MANUAL INTEGRATION
0404	22121430.D	SEQ-CALAA		1	NO MANUAL INTEGRATION
0422	22121431.D	SEQ-CALAB		1	NO MANUAL INTEGRATION
0440	22121432.D	SEQ-CALAC		1	NO MANUAL INTEGRATION
0458	22121433.D	SEQ-CALAD		1	NO MANUAL INTEGRATION
0516	22121434.D	SEQ-CALAE		1	NO MANUAL INTEGRATION
0533	22121435.D	SEQ-PEM2		1	NO MANUAL INTEGRATION
0551	22121436.D	SEQ-ICV1		1	NO MANUAL INTEGRATION
0609	22121437.D	SEQ-ICV2		1	NO MANUAL INTEGRATION
0627	22121438.D	SEQ-ICV3		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b\B20221214.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0645	22121439.D	SEQ-ICV4		1	NO MANUAL INTEGRATION
0703	22121440.D	BKK0688-BLK1		1	NO MANUAL INTEGRATION
0721	22121441.D	BKK0688-BS1		1	NO MANUAL INTEGRATION
0739	22121442.D	BKK0688-BS2		1	NO MANUAL INTEGRATION
0757	22121443.D	BKK0688-BS3		1	NO MANUAL INTEGRATION
0815	22121444.D	BKK0688-BSD1		1	NO MANUAL INTEGRATION
0832	22121445.D	BKK0142-BLK1		1	NO MANUAL INTEGRATION
0850	22121446.D	BKK0142-BS1		1	NO MANUAL INTEGRATION
0908	22121447.D	BKK0142-BS2		1	NO MANUAL INTEGRATION
0926	22121448.D	BKK0142-BSD1		1	NO MANUAL INTEGRATION
0944	22121449.D	BKK0142-MS1		1	NO MANUAL INTEGRATION
1002	22121450.D	BKK0142-MSD1		1	NO MANUAL INTEGRATION
1020	22121451.D	22J0513-01		1	NO MANUAL INTEGRATION
1038	22121452.D	22J0513-04		1	NO MANUAL INTEGRATION
1055	22121453.D	22J0535-01		1	trans-Chlordane [C],
1113	22121454.D	22K0429-01		1	NO MANUAL INTEGRATION
1131	22121455.D	22K0429-02		1	Aldrin [C], Heptachlor epoxide b [C], trans-Chlordane [C],
1149	22121456.D	22K0429-03		1	Aldrin [C],

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b\B20221214.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1207	22121457.D	SEQ-PEM3		1	NO MANUAL INTEGRATION
1225	22121458.D	SEQ-CCV1		1	NO MANUAL INTEGRATION
1243	22121459.D	SEQ-CCV2		1	NO MANUAL INTEGRATION
1301	22121460.D	SEQ-CCV3		1	NO MANUAL INTEGRATION
1319	22121461.D	SEQ-CCV4		1	NO MANUAL INTEGRATION
1336	22121462.D	BKK0380-BLK1		1	NO MANUAL INTEGRATION
1354	22121463.D	BKK0380-BS1		1	NO MANUAL INTEGRATION
1412	22121464.D	BKK0380-BSD1		1	NO MANUAL INTEGRATION
1430	22121465.D	22K0157-01		1	NO MANUAL INTEGRATION
1448	22121466.D	22K0230-01		1	NO MANUAL INTEGRATION
1506	22121467.D	22K0231-01		1	NO MANUAL INTEGRATION
1524	22121468.D	BKK0382-BLK1		1	NO MANUAL INTEGRATION
1542	22121469.D	BKK0382-BS1		1	NO MANUAL INTEGRATION
1600	22121470.D	BKK0382-BS2		1	NO MANUAL INTEGRATION
1618	22121471.D	BKK0382-BSD1		1	NO MANUAL INTEGRATION
1635	22121472.D	22K0075-01		1	NO MANUAL INTEGRATION
1653	22121473.D	SEQ-PEM4		1	NO MANUAL INTEGRATION
1711	22121474.D	SEQ-CCV5		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b\B20221214.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1729	22121475.D	SEQ-CCV6		1	NO MANUAL INTEGRATION
1747	22121476.D	SEQ-CCV7		1	NO MANUAL INTEGRATION
1805	22121477.D	SEQ-CCV8		1	NO MANUAL INTEGRATION
1823	22121478.D	BKK0537-BLK1		1	NO MANUAL INTEGRATION
1840	22121479.D	BKK0537-BS1		1	NO MANUAL INTEGRATION
1858	22121480.D	BKK0537-BS2		1	NO MANUAL INTEGRATION
1916	22121481.D	22K0194-01		1	NO MANUAL INTEGRATION
1934	22121482.D	22K0194-01RE1	10	1	NO MANUAL INTEGRATION
1952	22121483.D	SEQ-PEM5		1	NO MANUAL INTEGRATION
2010	22121484.D	SEQ-CCV9		1	NO MANUAL INTEGRATION
2027	22121485.D	SEQ-CCVA		1	NO MANUAL INTEGRATION
2045	22121486.D	SEQ-CCVB		1	NO MANUAL INTEGRATION
2103	22121487.D	SEQ-CCVC		1	NO MANUAL INTEGRATION

Security Status Report

Date: 17-Dec-2022 10:57

22121401.D	Data Locked	jrains, 17-Dec-2022 10:57
22121402.D	Data Locked	jrains, 17-Dec-2022 10:57
22121403.D	Data Locked	jrains, 17-Dec-2022 10:57
22121404.D	Data Locked	jrains, 17-Dec-2022 10:57
22121405.D	Data Locked	jrains, 17-Dec-2022 10:57
22121406.D	Data Locked	jrains, 17-Dec-2022 10:57
22121407.D	Data Locked	jrains, 17-Dec-2022 10:57
22121408.D	Data Locked	jrains, 17-Dec-2022 10:57
22121409.D	Data Locked	jrains, 17-Dec-2022 10:57
22121410.D	Data Locked	jrains, 17-Dec-2022 10:57
22121411.D	Data Locked	jrains, 17-Dec-2022 10:57
22121412.D	Data Locked	jrains, 17-Dec-2022 10:57
22121413.D	Data Locked	jrains, 17-Dec-2022 10:57
22121414.D	Data Locked	jrains, 17-Dec-2022 10:57
22121415.D	Data Locked	jrains, 17-Dec-2022 10:57
22121416.D	Data Locked	jrains, 17-Dec-2022 10:57
22121417.D	Data Locked	jrains, 17-Dec-2022 10:57
22121418.D	Data Locked	jrains, 17-Dec-2022 10:57
22121419.D	Data Locked	jrains, 17-Dec-2022 10:57
22121420.D	Data Locked	jrains, 17-Dec-2022 10:57
22121421.D	Data Locked	jrains, 17-Dec-2022 10:57
22121422.D	Data Locked	jrains, 17-Dec-2022 10:57
22121423.D	Data Locked	jrains, 17-Dec-2022 10:57
22121424.D	Data Locked	jrains, 17-Dec-2022 10:57
22121425.D	Data Locked	jrains, 17-Dec-2022 10:57
22121426.D	Data Locked	jrains, 17-Dec-2022 10:57
22121427.D	Data Locked	jrains, 17-Dec-2022 10:57
22121428.D	Data Locked	jrains, 17-Dec-2022 10:57
22121429.D	Data Locked	jrains, 17-Dec-2022 10:57
22121430.D	Data Locked	jrains, 17-Dec-2022 10:57
22121431.D	Data Locked	jrains, 17-Dec-2022 10:57
22121432.D	Data Locked	jrains, 17-Dec-2022 10:57
22121433.D	Data Locked	jrains, 17-Dec-2022 10:57
22121434.D	Data Locked	jrains, 17-Dec-2022 10:57

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 14-DEC-2022 20:38
End Cal Date : 15-DEC-2022 05:16
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd6.i\20221214.b\PEST.m\PESTB.m
Last Edit : 15-Dec-2022 08:33 jrains
Curve Type : Average

Calibration File Names:
Level 1: \\target\share\chem4\ecd6.i\20221214.b\20221214.b\22121428.D
Level 2: \\target\share\chem4\ecd6.i\20221214.b\20221214.b\22121429.D
Level 3: \\target\share\chem4\ecd6.i\20221214.b\20221214.b\22121430.D
Level 4: \\target\share\chem4\ecd6.i\20221214.b\20221214.b\22121431.D
Level 5: \\target\share\chem4\ecd6.i\20221214.b\20221214.b\22121432.D
Level 6: \\target\share\chem4\ecd6.i\20221214.b\20221214.b\22121433.D
Level 7: \\target\share\chem4\ecd6.i\20221214.b\20221214.b\22121434.D

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	80.000 Level 7	___ RRF	% RSD
1 Hexachlorobutadiene [C]	+++++	1.97561	1.64885	1.49248	1.37610	1.34121	1.30081	1.52251	16.761
5 Hexachlorobenzene [C]	+++++	1.60221	1.52062	1.49140	1.45025	1.38595	1.30422	1.45911	7.170
6 alpha-BHC [C]	+++++	1.58236	1.58624	1.63316	1.64049	1.61544	1.56190	1.60327	1.946
7 gamma-BHC (Lindane) [C]	+++++	1.35507	1.34878	1.38146	1.39277	1.36661	1.31891	1.36060	1.921
8 beta-BHC [C]	+++++	0.65278	0.61729	0.61846	0.61258	0.59180	0.56430	0.60954	4.856
9 delta-BHC [C]	+++++	1.32376	1.30723	1.33943	1.32843	1.33198	1.29291	1.32062	1.312
10 Heptachlor [C]	+++++	1.27025	1.23424	1.25841	1.27225	1.21576	1.14412	1.23250	3.937
11 Chlorthalonil	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 14-DEC-2022 20:38
End Cal Date : 15-DEC-2022 05:16
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd6.i\20221214.b\PEST.m\PESTB.m
Last Edit : 15-Dec-2022 08:33 jrains
Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	80.000 Level 7	___ RRF	% RSD
12 Aldrin [C]	+++++	1.51140	1.41672	1.43264	1.43038	1.37092	1.28126	1.40722	5.441
13 Heptachlor Epoxide a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
14 Heptachlor epoxide b [C]	+++++	1.29770	1.17460	1.17429	1.17471	1.11443	1.04614	1.16364	7.144
15 cis-Chlordane [C]	+++++	1.25850	1.15320	1.13505	1.13625	1.08979	1.03859	1.13523	6.464
16 trans-Chlordane [C]	+++++	1.25449	1.17610	1.16484	1.16885	1.12553	1.07269	1.16042	5.185
17 Endosulfan I [C]	+++++	1.11826	1.04415	1.03541	1.03470	0.98850	0.93258	1.02560	6.032
18 4,4'-DDE [C]	+++++	1.12024	1.06963	1.06439	1.05541	0.98971	0.93563	1.03917	6.320
19 Dieldrin [C]	+++++	1.27001	1.16284	1.13936	1.13610	1.07139	1.01937	1.13318	7.532
20 Endrin [C]	+++++	1.25691	1.17909	1.15948	1.14960	1.06606	1.01378	1.13749	7.566
21 4,4'-DDD [C]	+++++	1.23448	1.12156	1.11779	1.11200	1.04628	1.00638	1.10642	7.049
22 Endosulfan II [C]	+++++	1.29682	1.20296	1.18849	1.16050	1.09906	1.04780	1.16594	7.425

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 14-DEC-2022 20:38
End Cal Date : 15-DEC-2022 05:16
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd6.i\20221214.b\PEST.m\PESTB.m
Last Edit : 15-Dec-2022 08:33 jrains
Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	80.000 Level 7	___ RRF	% RSD
23 4,4'-DDT [C]	+++++	1.17591	1.07782	1.06761	1.07327	1.01936	0.99339	1.06790	5.878
24 Endrin aldehyde [C]	+++++	0.94301	0.84303	0.82492	0.81299	0.77277	0.73803	0.82246	8.537
25 Endosulfan sulfate [C]	+++++	1.13777	1.04255	1.03037	1.02302	0.97217	0.93725	1.02386	6.702
26 Methoxychlor [C]	+++++	0.51841	0.48668	0.47517	0.46817	0.44340	0.44364	0.47258	5.996
27 Endrin ketone [C]	+++++	1.23563	1.11999	1.11440	1.10085	1.04766	1.01657	1.10585	6.827
29 Aroclor-1016(1)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
(2)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
(3)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
(4)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
(5)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
30 Aroclor-1221(1)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 14-DEC-2022 20:38
End Cal Date : 15-DEC-2022 05:16
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd6.i\20221214.b\PEST.m\PESTB.m
Last Edit : 15-Dec-2022 08:33 jrains
Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	80.000 Level 7	___ RRF	% RSD
(2)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(3)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(4)	*****	*****	*****	*****	*****	*****	*****	*****	*****
31 Aroclor-1232(1)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(2)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(3)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(4)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(5)	*****	*****	*****	*****	*****	*****	*****	*****	*****
32 Aroclor-1242(1)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(2)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(3)	*****	*****	*****	*****	*****	*****	*****	*****	*****

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 14-DEC-2022 20:38
End Cal Date : 15-DEC-2022 05:16
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd6.i\20221214.b\PEST.m\PESTB.m
Last Edit : 15-Dec-2022 08:33 jrains
Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	80.000 Level 7	___ RRF	% RSD
(4)	#####	#####	#####	#####	#####	#####	#####	#####	#####
(5)	#####	#####	#####	#####	#####	#####	#####	#####	#####
33 Aroclor-1248(1)	#####	#####	#####	#####	#####	#####	#####	#####	#####
(2)	#####	#####	#####	#####	#####	#####	#####	#####	#####
(3)	#####	#####	#####	#####	#####	#####	#####	#####	#####
(4)	#####	#####	#####	#####	#####	#####	#####	#####	#####
(5)	#####	#####	#####	#####	#####	#####	#####	#####	#####
34 Aroclor-1254(1)	#####	#####	#####	#####	#####	#####	#####	#####	#####
(2)	#####	#####	#####	#####	#####	#####	#####	#####	#####
(3)	#####	#####	#####	#####	#####	#####	#####	#####	#####
(4)	#####	#####	#####	#####	#####	#####	#####	#####	#####

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 14-DEC-2022 20:38
End Cal Date : 15-DEC-2022 05:16
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd6.i\20221214.b\PEST.m\PESTB.m
Last Edit : 15-Dec-2022 08:33 jrains
Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	80.000 Level 7	___ RRF	% RSD
(5)	#####	#####	#####	#####	#####	#####	#####	#####	#####
35 Aroclor-1260(1)	#####	#####	#####	#####	#####	#####	#####	#####	#####
(2)	#####	#####	#####	#####	#####	#####	#####	#####	#####
(3)	#####	#####	#####	#####	#####	#####	#####	#####	#####
(4)	#####	#####	#####	#####	#####	#####	#####	#####	#####
(5)	#####	#####	#####	#####	#####	#####	#####	#####	#####
36 Aroclor-1262(1)	#####	#####	#####	#####	#####	#####	#####	#####	#####
(2)	#####	#####	#####	#####	#####	#####	#####	#####	#####
(3)	#####	#####	#####	#####	#####	#####	#####	#####	#####
(4)	#####	#####	#####	#####	#####	#####	#####	#####	#####
(5)	#####	#####	#####	#####	#####	#####	#####	#####	#####

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 14-DEC-2022 20:38
End Cal Date : 15-DEC-2022 05:16
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd6.i\20221214.b\PEST.m\PESTB.m
Last Edit : 15-Dec-2022 08:33 jrains
Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	80.000 Level 7	___ RRF	% RSD
37 Aroclor-1268(1)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
(2)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
(3)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
(4)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
(5)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
38 Toxaphene [C](1)	0.01492	0.01529	0.01573	0.01558	0.01527	0.01455	0.01387	0.01503	4.285
(2)	0.03524	0.03538	0.03581	0.03480	0.03351	0.03170	0.03010	0.03379	6.368
(3)	0.02615	0.02659	0.02671	0.02640	0.02571	0.02464	0.02387	0.02572	4.197
(4)	0.08868	0.08690	0.08740	0.08502	0.08225	0.07926	0.07782	0.08390	5.022
(5)	0.04138	0.04124	0.04193	0.04145	0.04102	0.04046	0.04062	0.04116	1.227
39 2,4-DDE [C]	+++++	0.83433	0.80524	0.74313	0.72589	0.66671	0.60202	0.72955	11.810

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 14-DEC-2022 20:38
End Cal Date : 15-DEC-2022 05:16
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd6.i\20221214.b\PEST.m\PESTB.m
Last Edit : 15-Dec-2022 08:33 jrains
Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	80.000 Level 7	___ RRF	% RSD
40 2,4-DDD [C]	+++++	0.90975	0.87971	0.82738	0.81642	0.76623	0.71370	0.81887	8.785
41 2,4-DDT [C]	+++++	0.94001	0.88046	0.85026	0.84852	0.79773	0.74249	0.84324	8.052
42 Hexachloroethane [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
43 Oxychlordane [C]	+++++	0.96447	0.94678	0.90333	0.89663	0.84333	0.79092	0.89091	7.271
44 trans-Nonachlor [C]	+++++	1.48885	1.51762	1.45179	1.44766	1.37681	1.30668	1.43157	5.406
45 cis-Nonachlor [C]	+++++	1.44924	1.40707	1.37647	1.37212	1.31329	1.24817	1.36106	5.224
46 Mirex [C]	+++++	0.93314	0.81155	0.79462	0.76268	0.73998	0.70751	0.79158	9.949
47 bis-(2-ethylhexyl) Phthalate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
48 Chlordane (NOS) [C](1)	0.03877	0.03690	0.03764	0.03840	0.03761	0.03805	0.03764	0.03786	1.615
(2)	0.04647	0.04439	0.04416	0.04357	0.04103	0.03978	0.03825	0.04252	6.844
(3)	0.14135	0.14252	0.14927	0.15059	0.14418	0.14081	0.13812	0.14383	3.173

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 14-DEC-2022 20:38
End Cal Date : 15-DEC-2022 05:16
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd6.i\20221214.b\PEST.m\PESTB.m
Last Edit : 15-Dec-2022 08:33 jrains
Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	80.000 Level 7	___ RRF	% RSD
49 Trifluralin	*****	*****	*****	*****	*****	*****	*****	*****	*****
50 Dacthal	*****	*****	*****	*****	*****	*****	*****	*****	*****
51 Oxadiazon	*****	*****	*****	*****	*****	*****	*****	*****	*****
52 Kelthane	*****	*****	*****	*****	*****	*****	*****	*****	*****
53 Chlorpyrifos	*****	*****	*****	*****	*****	*****	*****	*****	*****
54 Methyl Parathion	*****	*****	*****	*****	*****	*****	*****	*****	*****
55 Ethyl Parathion	*****	*****	*****	*****	*****	*****	*****	*****	*****
56 Kepone [C]	*****	*****	*****	*****	*****	*****	*****	*****	*****
57 1-Chloropyrene	*****	*****	*****	*****	*****	*****	*****	*****	*****
$ 4 Tetrachloro-m-xylene [C]	*****	1.22086	1.17937	1.16483	1.12798	1.06878	0.99482	1.12611	7.306
$ 28 Decachlorobiphenyl [C]	*****	1.08714	0.93916	0.85624	0.84996	0.80139	0.77119	0.88418	12.973

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 03-AUG-2022 11:03
End Cal Date : 13-DEC-2022 22:43
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd6.i\20221214.b\PEST.m
Last Edit : 14-Dec-2022 10:32
Curve Type : Average

Calibration File Names:
Level 1: \\target\share\chem4\ecd6.i\20220809.b\22080909.D
Level 2: \\target\share\chem4\ecd6.i\20220809.b\22080910.D
Level 3: \\target\share\chem4\ecd6.i\20220809.b\22080911.D
Level 4: \\target\share\chem4\ecd6.i\20220809.b\22080912.D
Level 5: \\target\share\chem4\ecd6.i\20220809.b\22080913.D
Level 6: \\target\share\chem4\ecd6.i\20220809.b\22080914.D
Level 7: \\target\share\chem4\ecd6.i\20220809.b\22080915.D

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	RRF	% RSD
	80.000 Level 7							
1 Hexachlorobutadiene	+++++	1.64215	1.55667	1.51049	1.47308	1.40536		
	1.30292						1.48178	7.988
5 Hexachlorobenzene	+++++	1.48647	1.40778	1.36481	1.31957	1.25458		
	1.15582						1.33150	8.750
6 alpha-BHC	+++++	1.41183	1.40802	1.42270	1.42790	1.37811		
	1.29587						1.39074	3.567
7 gamma-BHC (Lindane)	+++++	1.20108	1.18733	1.20704	1.21598	1.18532		
	1.11861						1.18589	2.948
8 beta-BHC	+++++	0.65244	0.60612	0.58927	0.57533	0.54649		
	0.50588						0.57925	8.684
9 delta-BHC	+++++	1.15252	1.13315	1.18185	1.21952	1.21492		
	1.16159						1.17726	2.950
10 Heptachlor	+++++	1.18674	1.12881	1.11527	1.09009	1.03076		
	0.94214						1.08230	7.897
11 Aldrin	+++++	1.14505	1.10493	1.10576	1.09698	1.04621		
	0.96536						1.07738	5.877

ARI Labs, Inc.

INITIAL CALIBRATION DATA

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End Cal Date : 13-DEC-2022 22:43
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd6.i\20221214.b\PEST.m
Last Edit : 14-Dec-2022 10:32
Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	80.000 Level 7	___ RRF	% RSD
12 Chlorthalonil	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
13 Heptachlor Epoxide a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
14 Heptachlor epoxide b	+++++	1.05278	0.99602	0.98316	0.95413	0.89408	0.81733	0.94959	8.751
15 cis-Chlordane	+++++	1.00217	0.95563	0.94931	0.93343	0.89233	0.82943	0.92705	6.424
16 trans-Chlordane	+++++	1.02223	0.96054	0.95840	0.94631	0.90606	0.84267	0.93937	6.420
17 Endosulfan I	+++++	1.10444	1.01004	0.97510	0.92642	0.86761	0.77363	0.94287	12.207
18 4,4'-DDE	+++++	0.85783	0.84618	0.86175	0.85068	0.80349	0.73346	0.82557	6.027
19 Dieldrin	+++++	1.02112	0.97469	0.96064	0.93395	0.87876	0.79720	0.92773	8.553
20 Endrin	+++++	1.03359	0.99258	1.01493	1.03951	0.95184	0.92125	0.99228	4.755
21 4,4'-DDD	+++++	1.26749	1.21690	1.21140	1.19455	1.09258	1.02286	1.16763	7.815
22 Endosulfan II	+++++	1.32213	1.30831	1.28817	1.25191	1.14300	1.05695	1.22841	8.614

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 03-AUG-2022 11:03
End Cal Date : 13-DEC-2022 22:43
Quant Method : ISTD
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Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd6.i\20221214.b\PEST.m
Last Edit : 14-Dec-2022 10:32
Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	80.000 Level 7	___ RRF	% RSD
23 4,4'-DDT	+++++	1.20278	1.19912	1.21231	1.21971	1.13284	1.06544	1.17203	5.186
24 Endrin aldehyde	+++++	1.05042	1.01673	1.00197	0.99460	0.91340	0.84575	0.97048	7.836
25 Methoxychlor	+++++	0.56408	0.54010	0.51985	0.50693	0.45626	0.43428	0.50358	9.854
26 Endosulfan sulfate	+++++	1.14290	1.11216	1.09802	1.09968	1.00734	0.94888	1.06816	6.922
27 Endrin ketone	+++++	1.47959	1.40243	1.34455	1.31335	1.19489	1.12695	1.31029	9.966
29 Aroclor-1016(1)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
(2)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
(3)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
(4)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
(5)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
30 Aroclor-1221(1)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 03-AUG-2022 11:03
End Cal Date : 13-DEC-2022 22:43
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd6.i\20221214.b\PEST.m
Last Edit : 14-Dec-2022 10:32
Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	80.000 Level 7	___ RRF	% RSD
(2)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(3)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(4)	*****	*****	*****	*****	*****	*****	*****	*****	*****
31 Aroclor-1232(1)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(2)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(3)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(4)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(5)	*****	*****	*****	*****	*****	*****	*****	*****	*****
32 Aroclor-1242(1)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(2)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(3)	*****	*****	*****	*****	*****	*****	*****	*****	*****

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 03-AUG-2022 11:03
End Cal Date : 13-DEC-2022 22:43
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd6.i\20221214.b\PEST.m
Last Edit : 14-Dec-2022 10:32
Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	80.000 Level 7	___ RRF	% RSD
(4)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(5)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(6)	*****	*****	*****	*****	*****	*****	*****	*****	*****
33 Aroclor-1248(1)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(2)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(3)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(4)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(5)	*****	*****	*****	*****	*****	*****	*****	*****	*****
34 Aroclor-1254(1)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(2)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(3)	*****	*****	*****	*****	*****	*****	*****	*****	*****

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 03-AUG-2022 11:03
End Cal Date : 13-DEC-2022 22:43
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd6.i\20221214.b\PEST.m
Last Edit : 14-Dec-2022 10:32
Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	80.000 Level 7	___ RRF	% RSD
(4)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(5)	*****	*****	*****	*****	*****	*****	*****	*****	*****
35 Aroclor-1260(1)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(2)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(3)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(4)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(5)	*****	*****	*****	*****	*****	*****	*****	*****	*****
36 Aroclor-1262(1)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(2)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(3)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(4)	*****	*****	*****	*****	*****	*****	*****	*****	*****

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 03-AUG-2022 11:03
End Cal Date : 13-DEC-2022 22:43
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd6.i\20221214.b\PEST.m
Last Edit : 14-Dec-2022 10:32
Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	80.000 Level 7	___ RRF	% RSD
(5)	*****	*****	*****	*****	*****	*****	*****	*****	*****
37 Aroclor-1268(1)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(2)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(3)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(4)	*****	*****	*****	*****	*****	*****	*****	*****	*****
(5)	*****	*****	*****	*****	*****	*****	*****	*****	*****
38 Toxaphene(1)	0.02824	0.03896	0.03693	0.03480	0.03418	0.02891	0.02792	0.03285	13.645
(2)	0.08343	0.10636	0.10204	0.09499	0.09608	0.08394	0.08263	0.09278	10.362
(3)	0.04776	0.06283	0.06069	0.06020	0.06090	0.05141	0.05119	0.05643	10.755
(4)	0.05098	0.07225	0.07089	0.06844	0.06847	0.06296	0.06388	0.06541	11.021
(5)	0.04955	0.06896	0.06748	0.06372	0.06603	0.05846	0.05934	0.06194	10.880

ARI Labs, Inc.

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Last Edit : 14-Dec-2022 10:32
Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	80.000 Level 7	___ RRF	% RSD
39 2,4-DDE	+++++	1.14103	1.08072	1.09005	1.06169	0.88466	0.89319	1.02522	10.614
40 2,4-DDD	+++++	1.08881	1.01841	0.99599	0.98400	0.85150	0.85318	0.96531	9.816
41 2,4-DDT	+++++	0.97799	0.97179	0.97332	0.98841	0.88743	0.88215	0.94685	5.117
42 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
43 Oxychlordane	+++++	1.32927	1.24890	1.22496	1.20236	1.04785	1.05015	1.18392	9.540
44 trans-Nonachlor	+++++	1.68629	1.57989	1.58456	1.55669	1.34437	1.36253	1.51906	8.949
45 cis-Nonachlor	+++++	1.62941	1.55213	1.53413	1.52347	1.34758	1.35527	1.49033	7.639
46 Mirex	+++++	1.20478	1.11168	1.05006	1.00932	0.85381	0.85786	1.01459	13.749
47 bis-(2-ethylhexyl) Phthalate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
48 Chlordane (NOS)(1)	0.06029	0.05735	0.05369	0.05005	0.04581	0.04808	0.04531	0.05151	11.230
(2)	0.15038	0.14213	0.13501	0.13074	0.12020	0.12674	0.12030	0.13221	8.482

ARI Labs, Inc.

INITIAL CALIBRATION DATA

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Integrator : HP Genie
Method file : \\target\share\chem4\ecd6.i\20221214.b\PEST.m
Last Edit : 14-Dec-2022 10:32
Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	80.000 Level 7	___ RRF	% RSD
(3)	0.17221	0.15459	0.13623	0.13893	0.12753	0.13518	0.13160	0.14232	11.024
49 Trifluralin	*****	*****	*****	*****	*****	*****	*****	*****	*****
50 Dacthal	*****	*****	*****	*****	*****	*****	*****	*****	*****
51 Oxadiazon	*****	*****	*****	*****	*****	*****	*****	*****	*****
52 Kelthane	*****	*****	*****	*****	*****	*****	*****	*****	*****
53 Chlorpyrifos	*****	*****	*****	*****	*****	*****	*****	*****	*****
54 Methyl Parathion	*****	*****	*****	*****	*****	*****	*****	*****	*****
55 Ethyl Parathion	*****	*****	*****	*****	*****	*****	*****	*****	*****
56 Kepone	*****	*****	*****	*****	*****	*****	*****	*****	*****
57 1-Chloropyrene	*****	*****	*****	*****	*****	*****	*****	*****	*****
$ 4 Tetrachloro-m-xylene	*****	1.10401	1.05839	1.02629	0.99588	0.93352	0.85040	0.99475	9.166

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 03-AUG-2022 11:03
End Cal Date : 13-DEC-2022 22:43
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd6.i\20221214.b\PEST.m
Last Edit : 14-Dec-2022 10:32
Curve Type : Average

Compound	1.250 Level 1	2.500 Level 2	5.000 Level 3	10.000 Level 4	20.000 Level 5	40.000 Level 6	___ RRF	% RSD
	80.000 Level 7							
$ 28 Decachlorobiphenyl	+++++	0.99444	0.96249	0.90111	0.87014	0.79161		
	0.75653						0.87939	10.607

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m
Batch File: \\target\share\chem4\ecd6.i\20221214.b
Inst ID: ecd6.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06	RT07
FILENAME:	22121405	22121406	22121407	22121408	22121409	22121410	22121411
INJ.DATE:	14-DEC-2022	14-DEC-2022	14-DEC-2022	14-DEC-2022	14-DEC-2022	14-DEC-2022	14-DEC-2022
INJ.TIME:	20:38	20:56	21:14	21:31	21:49	22:07	22:25

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
1 Hexachlorobutadiene	2.323	2.323	2.324	2.323	2.324	2.324	2.324	2.324	2.294-2.354	2.323	0.000
* 2 1Bromo-2nitrobenzene	3.151	3.151	3.152	3.151	3.151	3.151	3.151	3.151	3.121-3.181	3.151	0.000
* 3 Hexabromobiphenyl	9.504	9.503	9.504	9.505	9.505	9.504	9.504	9.505	9.475-9.535	9.504	0.001
$ 4 Tetrachloro-m-xylene	3.828	3.828	3.828	3.828	3.828	3.828	3.828	3.828	3.798-3.858	3.828	0.000
5 Hexachlorobenzene	4.182	4.182	4.183	4.183	4.182	4.183	4.182	4.182	4.152-4.212	4.183	0.000
6 alpha-BHC	4.342	4.342	4.343	4.343	4.342	4.342	4.342	4.342	4.312-4.372	4.342	0.000
7 gamma-BHC (Lindane)	4.645	4.645	4.646	4.646	4.645	4.646	4.645	4.645	4.615-4.675	4.645	0.000
8 beta-BHC	4.726	4.726	4.727	4.726	4.726	4.726	4.726	4.726	4.696-4.756	4.726	0.000
9 delta-BHC	4.909	4.909	4.910	4.910	4.909	4.910	4.910	4.909	4.879-4.939	4.910	0.000
10 Heptachlor	5.130	5.129	5.130	5.130	5.130	5.130	5.130	5.130	5.100-5.160	5.130	0.000
11 Aldrin	5.453	5.453	5.455	5.454	5.454	5.454	5.454	5.454	5.424-5.484	5.454	0.000
12 Chlorthalonil	+++++	+++++	+++++	+++++	+++++	+++++	+++++	13.627	13.597-13.657	+++++	+++++
13 Heptachlor Epoxide a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	10.869	10.839-10.899	+++++	+++++
14 Heptachlor epoxide b	6.130	6.130	6.132	6.131	6.130	6.130	6.130	6.130	6.100-6.160	6.131	0.001
15 cis-Chlordane	6.417	6.417	6.417	6.418	6.417	6.417	6.417	6.417	6.387-6.447	6.417	0.000
16 trans-Chlordane	6.270	6.271	6.271	6.271	6.271	6.271	6.271	6.271	6.241-6.301	6.271	0.000
17 Endosulfan I	6.572	6.572	6.573	6.573	6.572	6.572	6.573	6.572	6.542-6.602	6.573	0.000

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

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m
Batch File: \\target\share\chem4\ecd6.i\20221214.b
Inst ID: ecd6.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	18 4,4'-DDE	6.489	6.489	6.490	6.490	6.489	6.489	6.490	6.489	6.459-6.519	6.489	0.000
	19 Dieldrin	6.831	6.832	6.832	6.832	6.831	6.832	6.832	6.831	6.801-6.861	6.832	0.000
	20 Endrin	7.081	7.081	7.082	7.082	7.081	7.082	7.082	7.081	7.051-7.111	7.082	0.000
	21 4,4'-DDD	7.135	7.136	7.136	7.136	7.135	7.136	7.135	7.135	7.105-7.165	7.136	0.000
	22 Endosulfan II	7.318	7.317	7.318	7.318	7.317	7.317	7.317	7.317	7.287-7.347	7.317	0.000
	23 4,4'-DDT	7.427	7.427	7.428	7.428	7.427	7.427	7.428	7.427	7.397-7.457	7.428	0.000
	24 Endrin aldehyde	7.746	7.746	7.746	7.746	7.746	7.746	7.746	7.746	7.716-7.776	7.746	0.000
	25 Methoxychlor	7.912	7.912	7.913	7.912	7.912	7.912	7.912	7.912	7.882-7.942	7.912	0.000
	26 Endosulfan sulfate	8.180	8.179	8.180	8.180	8.180	8.179	8.180	8.180	8.150-8.210	8.180	0.000
	27 Endrin ketone	8.453	8.452	8.454	8.453	8.453	8.453	8.454	8.453	8.423-8.483	8.453	0.001
$	28 Decachlorobiphenyl	9.355	9.354	9.355	9.355	9.355	9.355	9.356	9.355	9.325-9.385	9.355	0.000
	29 Aroclor-1016	+++++	+++++	+++++	+++++	+++++	+++++	+++++	3.765	3.735-3.795	+++++	+++++
	30 Aroclor-1221	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.881	4.851-4.911	+++++	+++++
	31 Aroclor-1232	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.359	5.329-5.389	+++++	+++++
	32 Aroclor-1242	+++++	+++++	+++++	+++++	+++++	+++++	+++++	3.765	3.735-3.795	+++++	+++++
	33 Aroclor-1248	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.418	4.388-4.448	+++++	+++++
	34 Aroclor-1254	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.257	5.227-5.287	+++++	+++++
	35 Aroclor-1260	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.045	6.015-6.075	+++++	+++++
	36 Aroclor-1262	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.301	8.271-8.331	+++++	+++++
	37 Aroclor-1268	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.259	11.229-11.289	+++++	+++++
	38 Toxaphene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.931	6.901-6.961	+++++	+++++
	39 2,4-DDE	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.106	6.076-6.136	+++++	+++++

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m
Batch File: \\target\share\chem4\ecd6.i\20221214.b
Inst ID: ecd6.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
40 2,4-DDD	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.681	6.651-6.711	+++++	+++++
41 2,4-DDT	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.957	6.927-6.987	+++++	+++++
42 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	1.774	1.744-1.804	+++++	+++++
43 Oxychlordane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.014	5.984-6.044	+++++	+++++
44 trans-Nonachlor	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.397	6.367-6.427	+++++	+++++
45 cis-Nonachlor	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.112	7.082-7.142	+++++	+++++
46 Mirex	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.082	8.052-8.112	+++++	+++++
47 bis-(2-ethylhexyl) Pht	+++++	+++++	+++++	+++++	+++++	+++++	+++++	20.156	20.126-20.186	+++++	+++++
48 Chlordane (NOS)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.593	5.563-5.623	+++++	+++++
49 Trifluralin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.319	6.289-6.349	+++++	+++++
50 Dacthal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.936	9.906-9.966	+++++	+++++
51 Oxadiazon	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.891	11.861-11.921	+++++	+++++
52 Kelthane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.827	14.797-14.857	+++++	+++++
53 Chlorpyrifos	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.750	9.720-9.780	+++++	+++++
54 Methyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.107	9.077-9.137	+++++	+++++
55 Ethyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	10.251	10.221-10.281	+++++	+++++
56 Kepone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.588	6.558-6.618	+++++	+++++
57 1-Chloropyrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.953	6.923-6.983	+++++	+++++

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m\PESTB.m
Batch File: \\target\share\chem4\ecd6.i\20221214.b\B20221214.b
Inst ID: ecd6.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06	RT07
FILENAME:	22121405	22121406	22121407	22121408	22121409	22121410	22121411
INJ.DATE:	14-DEC-2022	14-DEC-2022	14-DEC-2022	14-DEC-2022	14-DEC-2022	14-DEC-2022	14-DEC-2022
INJ.TIME:	20:38	20:56	21:14	21:31	21:49	22:07	22:25

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
1 Hexachlorobutadiene [C	2.500	2.500	2.500	2.500	2.500	2.500	2.501	2.501	2.471-2.531	2.500	0.000
* 2 1Bromo-2nitrobenzene [	3.350	3.350	3.351	3.351	3.350	3.351	3.351	3.351	3.321-3.381	3.351	0.000
* 3 Hexabromobiphenyl[C]	11.054	11.053	11.054	11.054	11.053	11.053	11.054	11.054	11.024-11.084	11.054	0.000
$ 4 Tetrachloro-m-xylene [	4.220	4.220	4.220	4.220	4.220	4.221	4.220	4.220	4.190-4.250	4.220	0.000
5 Hexachlorobenzene [C]	4.718	4.718	4.718	4.718	4.718	4.718	4.718	4.718	4.688-4.748	4.718	0.000
6 alpha-BHC [C]	4.860	4.859	4.860	4.860	4.860	4.860	4.861	4.861	4.831-4.891	4.860	0.000
7 gamma-BHC (Lindane) [C	5.257	5.257	5.258	5.258	5.258	5.258	5.258	5.258	5.228-5.288	5.258	0.000
8 beta-BHC [C]	5.337	5.337	5.338	5.337	5.337	5.337	5.337	5.337	5.307-5.367	5.337	0.000
9 delta-BHC [C]	5.690	5.691	5.691	5.691	5.690	5.691	5.691	5.691	5.661-5.721	5.691	0.000
10 Heptachlor [C]	5.786	5.787	5.787	5.787	5.787	5.787	5.787	5.787	5.757-5.817	5.787	0.000
11 Chlorthalonil	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.588	14.558-14.618	+++++	+++++
12 Aldrin [C]	6.190	6.190	6.191	6.191	6.191	6.190	6.191	6.191	6.161-6.221	6.191	0.000
13 Heptachlor Epoxide a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	12.680	12.650-12.710	+++++	+++++
14 Heptachlor epoxide b [	6.845	6.845	6.845	6.846	6.845	6.846	6.845	6.845	6.815-6.875	6.845	0.000
15 cis-Chlordane [C]	7.215	7.215	7.216	7.216	7.216	7.215	7.216	7.216	7.186-7.246	7.215	0.000
16 trans-Chlordane [C]	7.056	7.055	7.056	7.056	7.056	7.056	7.056	7.056	7.026-7.086	7.056	0.000
17 Endosulfan I [C]	7.288	7.288	7.289	7.289	7.289	7.288	7.289	7.289	7.259-7.319	7.288	0.000

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

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m\PESTB.m
Batch File: \\target\share\chem4\ecd6.i\20221214.b\B20221214.b
Inst ID: ecd6.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	18 4,4'-DDE [C]	7.370	7.370	7.371	7.371	7.370	7.371	7.371	7.371	7.341-7.401	7.371	0.000
	19 Dieldrin [C]	7.582	7.582	7.583	7.583	7.582	7.582	7.583	7.583	7.553-7.613	7.582	0.000
	20 Endrin [C]	7.906	7.906	7.906	7.907	7.907	7.907	7.907	7.907	7.877-7.937	7.907	0.000
	21 4,4'-DDD [C]	7.976	7.976	7.976	7.977	7.976	7.976	7.976	7.976	7.946-8.006	7.976	0.000
	22 Endosulfan II [C]	8.117	8.116	8.117	8.117	8.117	8.117	8.117	8.117	8.087-8.147	8.117	0.000
	23 4,4'-DDT [C]	8.294	8.294	8.294	8.295	8.295	8.295	8.295	8.295	8.265-8.325	8.295	0.000
	24 Endrin aldehyde [C]	8.448	8.447	8.448	8.448	8.448	8.448	8.448	8.448	8.418-8.478	8.448	0.000
	25 Endosulfan sulfate [C]	8.715	8.714	8.715	8.715	8.715	8.715	8.715	8.715	8.685-8.745	8.715	0.000
	26 Methoxychlor [C]	8.935	8.934	8.935	8.936	8.935	8.935	8.936	8.936	8.906-8.966	8.935	0.001
	27 Endrin ketone [C]	9.239	9.239	9.239	9.240	9.239	9.239	9.240	9.240	9.210-9.270	9.239	0.000
$	28 Decachlorobiphenyl [C]	10.466	10.465	10.466	10.466	10.466	10.466	10.467	10.467	10.437-10.497	10.466	0.001
	29 Aroclor-1016	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.180	4.150-4.210	+++++	+++++
	30 Aroclor-1221	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.051	5.021-5.081	+++++	+++++
	31 Aroclor-1232	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.171	5.141-5.201	+++++	+++++
	32 Aroclor-1242	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.970	4.940-5.000	+++++	+++++
	33 Aroclor-1248	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.285	5.255-5.315	+++++	+++++
	34 Aroclor-1254	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.968	5.938-5.998	+++++	+++++
	35 Aroclor-1260	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.767	6.737-6.797	+++++	+++++
	36 Aroclor-1262	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.714	9.684-9.744	+++++	+++++
	37 Aroclor-1268	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.791	11.761-11.821	+++++	+++++
	38 Toxaphene [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.126	7.096-7.156	+++++	+++++
	39 2,4-DDE [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.036	7.006-7.066	+++++	+++++

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m\PESTB.m
Batch File: \\target\share\chem4\ecd6.i\20221214.b\B20221214.b
Inst ID: ecd6.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
40 2,4-DDD [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.591	7.561-7.621	+++++	+++++
41 2,4-DDT [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.913	7.883-7.943	+++++	+++++
42 Hexachloroethane [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	1.676	1.646-1.706	+++++	+++++
43 Oxychlordane [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.741	6.711-6.771	+++++	+++++
44 trans-Nonachlor [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.155	7.125-7.185	+++++	+++++
45 cis-Nonachlor [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.975	7.945-8.005	+++++	+++++
46 Mirex [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.223	9.193-9.253	+++++	+++++
47 bis-(2-ethylhexyl) Pht	+++++	+++++	+++++	+++++	+++++	+++++	+++++	21.499	21.469-21.529	+++++	+++++
48 Chlordane (NOS) [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.612	5.582-5.642	+++++	+++++
49 Trifluralin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.871	4.841-4.901	+++++	+++++
50 Dacthal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.640	6.610-6.670	+++++	+++++
51 Oxadiazon	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.115	8.085-8.145	+++++	+++++
52 Kelthane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.286	11.256-11.316	+++++	+++++
53 Chlorpyrifos	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.527	6.497-6.557	+++++	+++++
54 Methyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.342	6.312-6.372	+++++	+++++
55 Ethyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.841	6.811-6.871	+++++	+++++
56 Kepone [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.336	7.306-7.366	+++++	+++++
57 1-Chloropyrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.745	7.715-7.775	+++++	+++++

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m
Batch File: \\target\share\chem4\ecd6.i\20221214.b
Inst ID: ecd6.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06	RT07
FILENAME:	22121412	22121413	22121414	22121415	22121416	22121417	22121418
INJ.DATE:	14-DEC-2022	14-DEC-2022	14-DEC-2022	14-DEC-2022	14-DEC-2022	15-DEC-2022	15-DEC-2022
INJ.TIME:	22:43	23:01	23:19	23:36	23:54	00:12	00:30

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	1 Hexachlorobutadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	2.324	2.294-2.354	+++++	+++++
*	2 1Bromo-2nitrobenzene	3.151	3.151	3.151	3.151	3.151	3.151	3.151	3.151	3.121-3.181	3.151	0.000
*	3 Hexabromobiphenyl	9.504	9.504	9.504	9.504	9.504	9.504	9.504	9.505	9.475-9.535	9.504	0.000
$	4 Tetrachloro-m-xylene	+++++	+++++	+++++	+++++	3.800	3.800	3.800	3.828	3.798-3.858	3.800	0.000
	5 Hexachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.182	4.152-4.212	+++++	+++++
	6 alpha-BHC	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.342	4.312-4.372	+++++	+++++
	7 gamma-BHC (Lindane)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.645	4.615-4.675	+++++	+++++
	8 beta-BHC	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.726	4.696-4.756	+++++	+++++
	9 delta-BHC	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.909	4.879-4.939	+++++	+++++
	10 Heptachlor	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.130	5.100-5.160	+++++	+++++
	11 Aldrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.454	5.424-5.484	+++++	+++++
	12 Chlorthalonil	+++++	+++++	+++++	+++++	+++++	+++++	+++++	13.627	13.597-13.657	+++++	+++++
	13 Heptachlor Epoxide a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	10.869	10.839-10.899	+++++	+++++
	14 Heptachlor epoxide b	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.130	6.100-6.160	+++++	+++++
	15 cis-Chlordane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.417	6.387-6.447	+++++	+++++
	16 trans-Chlordane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.271	6.241-6.301	+++++	+++++
	17 Endosulfan I	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.572	6.542-6.602	+++++	+++++

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

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m
Batch File: \\target\share\chem4\ecd6.i\20221214.b
Inst ID: ecd6.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	18 4,4'-DDE	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.489	6.459-6.519	+++++	+++++
	19 Dieldrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.831	6.801-6.861	+++++	+++++
	20 Endrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.081	7.051-7.111	+++++	+++++
	21 4,4'-DDD	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.135	7.105-7.165	+++++	+++++
	22 Endosulfan II	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.317	7.287-7.347	+++++	+++++
	23 4,4'-DDT	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.427	7.397-7.457	+++++	+++++
	24 Endrin aldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.746	7.716-7.776	+++++	+++++
	25 Methoxychlor	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.912	7.882-7.942	+++++	+++++
	26 Endosulfan sulfate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.180	8.150-8.210	+++++	+++++
	27 Endrin ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.453	8.423-8.483	+++++	+++++
$	28 Decachlorobiphenyl	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.355	9.325-9.385	+++++	+++++
	29 Aroclor-1016	+++++	+++++	+++++	+++++	+++++	+++++	+++++	3.765	3.735-3.795	+++++	+++++
	30 Aroclor-1221	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.881	4.851-4.911	+++++	+++++
	31 Aroclor-1232	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.359	5.329-5.389	+++++	+++++
	32 Aroclor-1242	+++++	+++++	+++++	+++++	+++++	+++++	+++++	3.765	3.735-3.795	+++++	+++++
	33 Aroclor-1248	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.418	4.388-4.448	+++++	+++++
	34 Aroclor-1254	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.257	5.227-5.287	+++++	+++++
	35 Aroclor-1260	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.045	6.015-6.075	+++++	+++++
	36 Aroclor-1262	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.301	8.271-8.331	+++++	+++++
	37 Aroclor-1268	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.259	11.229-11.289	+++++	+++++
	38 Toxaphene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.931	6.901-6.961	+++++	+++++
	39 2,4-DDE	6.106	6.106	6.106	6.106	6.106	6.106	6.106	6.106	6.076-6.136	6.106	0.000

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m
Batch File: \\target\share\chem4\ecd6.i\20221214.b
Inst ID: ecd6.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
40 2,4-DDD	6.681	6.681	6.681	6.681	6.681	6.681	6.680	6.681	6.651-6.711	6.681	0.000
41 2,4-DDT	6.956	6.957	6.956	6.956	6.957	6.956	6.956	6.957	6.927-6.987	6.956	0.000
42 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	1.774	1.744-1.804	+++++	+++++
43 Oxychlordane	6.014	6.015	6.014	6.015	6.014	6.014	6.014	6.014	5.984-6.044	6.015	0.000
44 trans-Nonachlor	6.397	6.398	6.398	6.398	6.397	6.397	6.397	6.397	6.367-6.427	6.398	0.000
45 cis-Nonachlor	7.112	7.112	7.111	7.112	7.112	7.112	7.112	7.112	7.082-7.142	7.112	0.000
46 Mirex	8.082	8.082	8.082	8.082	8.082	8.082	8.082	8.082	8.052-8.112	8.082	0.000
47 bis-(2-ethylhexyl) Pht	+++++	+++++	+++++	+++++	+++++	+++++	+++++	20.156	20.126-20.186	+++++	+++++
48 Chlordane (NOS)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.593	5.563-5.623	+++++	+++++
49 Trifluralin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.319	6.289-6.349	+++++	+++++
50 Dacthal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.936	9.906-9.966	+++++	+++++
51 Oxadiazon	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.891	11.861-11.921	+++++	+++++
52 Kelthane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.827	14.797-14.857	+++++	+++++
53 Chlorpyrifos	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.750	9.720-9.780	+++++	+++++
54 Methyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.107	9.077-9.137	+++++	+++++
55 Ethyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	10.251	10.221-10.281	+++++	+++++
56 Kepone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.588	6.558-6.618	+++++	+++++
57 1-Chloropyrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.953	6.923-6.983	+++++	+++++

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m\PESTB.m
Batch File: \\target\share\chem4\ecd6.i\20221214.b\B20221214.b
Inst ID: ecd6.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06	RT07
FILENAME:	22121412	22121413	22121414	22121415	22121416	22121417	22121418
INJ.DATE:	14-DEC-2022	14-DEC-2022	14-DEC-2022	14-DEC-2022	14-DEC-2022	15-DEC-2022	15-DEC-2022
INJ.TIME:	22:43	23:01	23:19	23:36	23:54	00:12	00:30

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	1 Hexachlorobutadiene [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	2.501	2.471-2.531	+++++	+++++
*	2 1Bromo-2nitrobenzene [	3.351	3.351	3.351	3.351	3.351	3.351	3.351	3.351	3.321-3.381	3.351	0.000
*	3 Hexabromobiphenyl[C]	11.054	11.054	11.054	11.054	11.054	11.054	11.054	11.054	11.024-11.084	11.054	0.000
$	4 Tetrachloro-m-xylene [	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.220	4.190-4.250	+++++	+++++
	5 Hexachlorobenzene [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.718	4.688-4.748	+++++	+++++
	6 alpha-BHC [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.861	4.831-4.891	+++++	+++++
	7 gamma-BHC (Lindane) [C	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.258	5.228-5.288	+++++	+++++
	8 beta-BHC [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.337	5.307-5.367	+++++	+++++
	9 delta-BHC [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.691	5.661-5.721	+++++	+++++
	10 Heptachlor [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.787	5.757-5.817	+++++	+++++
	11 Chlorthalonil	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.588	14.558-14.618	+++++	+++++
	12 Aldrin [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.191	6.161-6.221	+++++	+++++
	13 Heptachlor Epoxide a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	12.680	12.650-12.710	+++++	+++++
	14 Heptachlor epoxide b [	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.845	6.815-6.875	+++++	+++++
	15 cis-Chlordane [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.216	7.186-7.246	+++++	+++++
	16 trans-Chlordane [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.056	7.026-7.086	+++++	+++++
	17 Endosulfan I [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.289	7.259-7.319	+++++	+++++

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

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m\PESTB.m
Batch File: \\target\share\chem4\ecd6.i\20221214.b\B20221214.b
Inst ID: ecd6.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	18 4,4'-DDE [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.371	7.341-7.401	+++++	+++++
	19 Dieldrin [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.583	7.553-7.613	+++++	+++++
	20 Endrin [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.907	7.877-7.937	+++++	+++++
	21 4,4'-DDD [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.976	7.946-8.006	+++++	+++++
	22 Endosulfan II [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.117	8.087-8.147	+++++	+++++
	23 4,4'-DDT [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.295	8.265-8.325	+++++	+++++
	24 Endrin aldehyde [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.448	8.418-8.478	+++++	+++++
	25 Endosulfan sulfate [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.715	8.685-8.745	+++++	+++++
	26 Methoxychlor [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.936	8.906-8.966	+++++	+++++
	27 Endrin ketone [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.240	9.210-9.270	+++++	+++++
$	28 Decachlorobiphenyl [C]	+++++	+++++	+++++	+++++	+++++	+++++	10.471	10.467	10.437-10.497	10.471	0.000
	29 Aroclor-1016	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.180	4.150-4.210	+++++	+++++
	30 Aroclor-1221	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.051	5.021-5.081	+++++	+++++
	31 Aroclor-1232	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.171	5.141-5.201	+++++	+++++
	32 Aroclor-1242	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.970	4.940-5.000	+++++	+++++
	33 Aroclor-1248	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.285	5.255-5.315	+++++	+++++
	34 Aroclor-1254	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.968	5.938-5.998	+++++	+++++
	35 Aroclor-1260	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.767	6.737-6.797	+++++	+++++
	36 Aroclor-1262	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.714	9.684-9.744	+++++	+++++
	37 Aroclor-1268	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.791	11.761-11.821	+++++	+++++
	38 Toxaphene [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.126	7.096-7.156	+++++	+++++
	39 2,4-DDE [C]	7.036	7.036	7.035	7.036	7.036	7.036	7.036	7.036	7.006-7.066	7.036	0.000

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m\PESTB.m
Batch File: \\target\share\chem4\ecd6.i\20221214.b\B20221214.b
Inst ID: ecd6.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
40 2,4-DDD [C]	7.591	7.590	7.590	7.591	7.590	7.591	7.591	7.591	7.561-7.621	7.591	0.000
41 2,4-DDT [C]	7.913	7.914	7.913	7.913	7.913	7.914	7.913	7.913	7.883-7.943	7.913	0.000
42 Hexachloroethane [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	1.676	1.646-1.706	+++++	+++++
43 Oxychlordane [C]	6.741	6.741	6.741	6.741	6.741	6.741	6.741	6.741	6.711-6.771	6.741	0.000
44 trans-Nonachlor [C]	7.154	7.154	7.154	7.155	7.154	7.155	7.155	7.155	7.125-7.185	7.154	0.000
45 cis-Nonachlor [C]	7.975	7.975	7.975	7.975	7.975	7.975	7.975	7.975	7.945-8.005	7.975	0.000
46 Mirex [C]	9.223	9.223	9.222	9.223	9.222	9.223	9.223	9.223	9.193-9.253	9.223	0.000
47 bis-(2-ethylhexyl) Pht	+++++	+++++	+++++	+++++	+++++	+++++	+++++	21.499	21.469-21.529	+++++	+++++
48 Chlordane (NOS) [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.612	5.582-5.642	+++++	+++++
49 Trifluralin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.871	4.841-4.901	+++++	+++++
50 Dacthal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.640	6.610-6.670	+++++	+++++
51 Oxadiazon	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.115	8.085-8.145	+++++	+++++
52 Kelthane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.286	11.256-11.316	+++++	+++++
53 Chlorpyrifos	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.527	6.497-6.557	+++++	+++++
54 Methyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.342	6.312-6.372	+++++	+++++
55 Ethyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.841	6.811-6.871	+++++	+++++
56 Kepone [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.336	7.306-7.366	+++++	+++++
57 1-Chloropyrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.745	7.715-7.775	+++++	+++++

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m
Batch File: \\target\share\chem4\ecd6.i\20221214.b
Inst ID: ecd6.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06	RT07
FILENAME:	22121421	22121422	22121423	22121424	22121425	22121426	22121427
INJ.DATE:	15-DEC-2022	15-DEC-2022	15-DEC-2022	15-DEC-2022	15-DEC-2022	15-DEC-2022	15-DEC-2022
INJ.TIME:	01:24	01:42	01:59	02:17	02:35	02:53	03:11

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	1 Hexachlorobutadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	2.324	2.294-2.354	+++++	+++++
*	2 1Bromo-2nitrobenzene	3.151	3.151	3.151	3.151	3.151	3.151	3.151	3.151	3.121-3.181	3.151	0.000
*	3 Hexabromobiphenyl	9.504	9.504	9.505	9.504	9.504	9.504	9.505	9.505	9.475-9.535	9.504	0.000
$	4 Tetrachloro-m-xylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	3.828	3.798-3.858	+++++	+++++
	5 Hexachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.182	4.152-4.212	+++++	+++++
	6 alpha-BHC	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.342	4.312-4.372	+++++	+++++
	7 gamma-BHC (Lindane)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.645	4.615-4.675	+++++	+++++
	8 beta-BHC	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.726	4.696-4.756	+++++	+++++
	9 delta-BHC	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.909	4.879-4.939	+++++	+++++
	10 Heptachlor	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.130	5.100-5.160	+++++	+++++
	11 Aldrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.454	5.424-5.484	+++++	+++++
	12 Chlorthalonil	+++++	+++++	+++++	+++++	+++++	+++++	+++++	13.627	13.597-13.657	+++++	+++++
	13 Heptachlor Epoxide a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	10.869	10.839-10.899	+++++	+++++
	14 Heptachlor epoxide b	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.130	6.100-6.160	+++++	+++++
	15 cis-Chlordane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.417	6.387-6.447	+++++	+++++
	16 trans-Chlordane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.271	6.241-6.301	+++++	+++++
	17 Endosulfan I	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.572	6.542-6.602	+++++	+++++

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

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m
Batch File: \\target\share\chem4\ecd6.i\20221214.b
Inst ID: ecd6.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	18 4,4'-DDE	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.489	6.459-6.519	+++++	+++++
	19 Dieldrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.831	6.801-6.861	+++++	+++++
	20 Endrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.081	7.051-7.111	+++++	+++++
	21 4,4'-DDD	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.135	7.105-7.165	+++++	+++++
	22 Endosulfan II	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.317	7.287-7.347	+++++	+++++
	23 4,4'-DDT	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.427	7.397-7.457	+++++	+++++
	24 Endrin aldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.746	7.716-7.776	+++++	+++++
	25 Methoxychlor	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.912	7.882-7.942	+++++	+++++
	26 Endosulfan sulfate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.180	8.150-8.210	+++++	+++++
	27 Endrin ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.453	8.423-8.483	+++++	+++++
$	28 Decachlorobiphenyl	+++++	+++++	+++++	+++++	+++++	+++++	9.380	9.355	9.325-9.385	9.380	0.000
	29 Aroclor-1016	+++++	+++++	+++++	+++++	+++++	+++++	+++++	3.765	3.735-3.795	+++++	+++++
	30 Aroclor-1221	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.881	4.851-4.911	+++++	+++++
	31 Aroclor-1232	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.359	5.329-5.389	+++++	+++++
	32 Aroclor-1242	+++++	+++++	+++++	+++++	+++++	+++++	+++++	3.765	3.735-3.795	+++++	+++++
	33 Aroclor-1248	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.418	4.388-4.448	+++++	+++++
	34 Aroclor-1254	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.257	5.227-5.287	+++++	+++++
	35 Aroclor-1260	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.045	6.015-6.075	+++++	+++++
	36 Aroclor-1262	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.301	8.271-8.331	+++++	+++++
	37 Aroclor-1268	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.259	11.229-11.289	+++++	+++++
	38 Toxaphene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.931	6.901-6.961	+++++	+++++
	39 2,4-DDE	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.106	6.076-6.136	+++++	+++++

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m
Batch File: \\target\share\chem4\ecd6.i\20221214.b
Inst ID: ecd6.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
40 2,4-DDD	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.681	6.651-6.711	+++++	+++++
41 2,4-DDT	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.957	6.927-6.987	+++++	+++++
42 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	1.774	1.744-1.804	+++++	+++++
43 Oxychlordane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.014	5.984-6.044	+++++	+++++
44 trans-Nonachlor	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.397	6.367-6.427	+++++	+++++
45 cis-Nonachlor	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.112	7.082-7.142	+++++	+++++
46 Mirex	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.082	8.052-8.112	+++++	+++++
47 bis-(2-ethylhexyl) Pht	+++++	+++++	+++++	+++++	+++++	+++++	+++++	20.156	20.126-20.186	+++++	+++++
48 Chlordane (NOS)	5.593	5.593	5.593	5.593	5.593	5.592	5.593	5.593	5.563-5.623	5.593	0.000
49 Trifluralin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.319	6.289-6.349	+++++	+++++
50 Dacthal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.936	9.906-9.966	+++++	+++++
51 Oxadiazon	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.891	11.861-11.921	+++++	+++++
52 Kelthane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.827	14.797-14.857	+++++	+++++
53 Chlorpyrifos	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.750	9.720-9.780	+++++	+++++
54 Methyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.107	9.077-9.137	+++++	+++++
55 Ethyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	10.251	10.221-10.281	+++++	+++++
56 Kepone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.588	6.558-6.618	+++++	+++++
57 1-Chloropyrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.953	6.923-6.983	+++++	+++++

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m\PESTB.m
Batch File: \\target\share\chem4\ecd6.i\20221214.b\B20221214.b
Inst ID: ecd6.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06	RT07
FILENAME:	22121421	22121422	22121423	22121424	22121425	22121426	22121427
INJ.DATE:	15-DEC-2022	15-DEC-2022	15-DEC-2022	15-DEC-2022	15-DEC-2022	15-DEC-2022	15-DEC-2022
INJ.TIME:	01:24	01:42	01:59	02:17	02:35	02:53	03:11

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	1 Hexachlorobutadiene [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	2.501	2.471-2.531	+++++	+++++
*	2 1Bromo-2nitrobenzene [	3.351	3.351	3.351	3.351	3.351	3.351	3.351	3.351	3.321-3.381	3.351	0.000
*	3 Hexabromobiphenyl[C]	11.054	11.055	11.054	11.054	11.054	11.054	11.054	11.054	11.024-11.084	11.054	0.000
$	4 Tetrachloro-m-xylene [	4.215	+++++	+++++	+++++	+++++	+++++	+++++	4.220	4.190-4.250	4.215	0.000
	5 Hexachlorobenzene [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.718	4.688-4.748	+++++	+++++
	6 alpha-BHC [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.861	4.831-4.891	+++++	+++++
	7 gamma-BHC (Lindane) [C	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.258	5.228-5.288	+++++	+++++
	8 beta-BHC [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.337	5.307-5.367	+++++	+++++
	9 delta-BHC [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.691	5.661-5.721	+++++	+++++
	10 Heptachlor [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.787	5.757-5.817	+++++	+++++
	11 Chlorthalonil	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.588	14.558-14.618	+++++	+++++
	12 Aldrin [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.191	6.161-6.221	+++++	+++++
	13 Heptachlor Epoxide a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	12.680	12.650-12.710	+++++	+++++
	14 Heptachlor epoxide b [	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.845	6.815-6.875	+++++	+++++
	15 cis-Chlordane [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.216	7.186-7.246	+++++	+++++
	16 trans-Chlordane [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.056	7.026-7.086	+++++	+++++
	17 Endosulfan I [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.289	7.259-7.319	+++++	+++++

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

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m\PESTB.m
Batch File: \\target\share\chem4\ecd6.i\20221214.b\B20221214.b
Inst ID: ecd6.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	18 4,4'-DDE [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.371	7.341-7.401	+++++	+++++
	19 Dieldrin [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.583	7.553-7.613	+++++	+++++
	20 Endrin [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.907	7.877-7.937	+++++	+++++
	21 4,4'-DDD [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.976	7.946-8.006	+++++	+++++
	22 Endosulfan II [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.117	8.087-8.147	+++++	+++++
	23 4,4'-DDT [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.295	8.265-8.325	+++++	+++++
	24 Endrin aldehyde [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.448	8.418-8.478	+++++	+++++
	25 Endosulfan sulfate [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.715	8.685-8.745	+++++	+++++
	26 Methoxychlor [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.936	8.906-8.966	+++++	+++++
	27 Endrin ketone [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.240	9.210-9.270	+++++	+++++
$	28 Decachlorobiphenyl [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	10.467	10.437-10.497	+++++	+++++
	29 Aroclor-1016	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.180	4.150-4.210	+++++	+++++
	30 Aroclor-1221	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.051	5.021-5.081	+++++	+++++
	31 Aroclor-1232	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.171	5.141-5.201	+++++	+++++
	32 Aroclor-1242	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.970	4.940-5.000	+++++	+++++
	33 Aroclor-1248	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.285	5.255-5.315	+++++	+++++
	34 Aroclor-1254	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.968	5.938-5.998	+++++	+++++
	35 Aroclor-1260	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.767	6.737-6.797	+++++	+++++
	36 Aroclor-1262	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.714	9.684-9.744	+++++	+++++
	37 Aroclor-1268	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.791	11.761-11.821	+++++	+++++
	38 Toxaphene [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.126	7.096-7.156	+++++	+++++
	39 2,4-DDE [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.036	7.006-7.066	+++++	+++++

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m\PESTB.m
Batch File: \\target\share\chem4\ecd6.i\20221214.b\B20221214.b
Inst ID: ecd6.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
40 2,4-DDD [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.591	7.561-7.621	+++++	+++++
41 2,4-DDT [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.913	7.883-7.943	+++++	+++++
42 Hexachloroethane [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	1.676	1.646-1.706	+++++	+++++
43 Oxychlordane [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.741	6.711-6.771	+++++	+++++
44 trans-Nonachlor [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.155	7.125-7.185	+++++	+++++
45 cis-Nonachlor [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.975	7.945-8.005	+++++	+++++
46 Mirex [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.223	9.193-9.253	+++++	+++++
47 bis-(2-ethylhexyl) Pht	+++++	+++++	+++++	+++++	+++++	+++++	+++++	21.499	21.469-21.529	+++++	+++++
48 Chlordane (NOS) [C]	5.612	5.612	5.612	5.611	5.612	5.612	5.612	5.612	5.582-5.642	5.612	0.000
49 Trifluralin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.871	4.841-4.901	+++++	+++++
50 Dacthal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.640	6.610-6.670	+++++	+++++
51 Oxadiazon	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.115	8.085-8.145	+++++	+++++
52 Kelthane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.286	11.256-11.316	+++++	+++++
53 Chlorpyrifos	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.527	6.497-6.557	+++++	+++++
54 Methyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.342	6.312-6.372	+++++	+++++
55 Ethyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.841	6.811-6.871	+++++	+++++
56 Kepone [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.336	7.306-7.366	+++++	+++++
57 1-Chloropyrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.745	7.715-7.775	+++++	+++++

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m
Batch File: \\target\share\chem4\ecd6.i\20221214.b
Inst ID: ecd6.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06	RT07
FILENAME:	22121428	22121429	22121430	22121431	22121432	22121433	22121434
INJ.DATE:	15-DEC-2022	15-DEC-2022	15-DEC-2022	15-DEC-2022	15-DEC-2022	15-DEC-2022	15-DEC-2022
INJ.TIME:	03:29	03:46	04:04	04:22	04:40	04:58	05:16

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	1 Hexachlorobutadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	2.324	2.294-2.354	+++++	+++++
*	2 1Bromo-2nitrobenzene	3.151	3.151	3.151	3.151	3.151	3.151	3.151	3.151	3.121-3.181	3.151	0.000
*	3 Hexabromobiphenyl	9.505	9.504	9.504	9.504	9.505	9.504	9.504	9.505	9.475-9.535	9.504	0.000
$	4 Tetrachloro-m-xylene	3.828	3.828	3.828	3.828	3.828	3.828	3.828	3.828	3.798-3.858	3.828	0.000
	5 Hexachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.182	4.152-4.212	+++++	+++++
	6 alpha-BHC	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.342	4.312-4.372	+++++	+++++
	7 gamma-BHC (Lindane)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.645	4.615-4.675	+++++	+++++
	8 beta-BHC	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.726	4.696-4.756	+++++	+++++
	9 delta-BHC	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.909	4.879-4.939	+++++	+++++
	10 Heptachlor	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.130	5.100-5.160	+++++	+++++
	11 Aldrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.454	5.424-5.484	+++++	+++++
	12 Chlorthalonil	+++++	+++++	+++++	+++++	+++++	+++++	+++++	13.627	13.597-13.657	+++++	+++++
	13 Heptachlor Epoxide a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	10.869	10.839-10.899	+++++	+++++
	14 Heptachlor epoxide b	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.130	6.100-6.160	+++++	+++++
	15 cis-Chlordane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.417	6.387-6.447	+++++	+++++
	16 trans-Chlordane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.271	6.241-6.301	+++++	+++++
	17 Endosulfan I	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.572	6.542-6.602	+++++	+++++

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

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m
Batch File: \\target\share\chem4\ecd6.i\20221214.b
Inst ID: ecd6.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	18 4,4'-DDE	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.489	6.459-6.519	+++++	+++++
	19 Dieldrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.831	6.801-6.861	+++++	+++++
	20 Endrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.081	7.051-7.111	+++++	+++++
	21 4,4'-DDD	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.135	7.105-7.165	+++++	+++++
	22 Endosulfan II	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.317	7.287-7.347	+++++	+++++
	23 4,4'-DDT	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.427	7.397-7.457	+++++	+++++
	24 Endrin aldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.746	7.716-7.776	+++++	+++++
	25 Methoxychlor	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.912	7.882-7.942	+++++	+++++
	26 Endosulfan sulfate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.180	8.150-8.210	+++++	+++++
	27 Endrin ketone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.453	8.423-8.483	+++++	+++++
$	28 Decachlorobiphenyl	9.355	9.355	9.355	9.355	9.356	9.356	9.355	9.355	9.325-9.385	9.356	0.000
	29 Aroclor-1016	+++++	+++++	+++++	+++++	+++++	+++++	+++++	3.765	3.735-3.795	+++++	+++++
	30 Aroclor-1221	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.881	4.851-4.911	+++++	+++++
	31 Aroclor-1232	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.359	5.329-5.389	+++++	+++++
	32 Aroclor-1242	+++++	+++++	+++++	+++++	+++++	+++++	+++++	3.765	3.735-3.795	+++++	+++++
	33 Aroclor-1248	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.418	4.388-4.448	+++++	+++++
	34 Aroclor-1254	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.257	5.227-5.287	+++++	+++++
	35 Aroclor-1260	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.045	6.015-6.075	+++++	+++++
	36 Aroclor-1262	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.301	8.271-8.331	+++++	+++++
	37 Aroclor-1268	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.259	11.229-11.289	+++++	+++++
	38 Toxaphene	6.931	6.931	6.931	6.931	6.931	6.931	6.931	6.931	6.901-6.961	6.931	0.000
	39 2,4-DDE	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.106	6.076-6.136	+++++	+++++

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m
Batch File: \\target\share\chem4\ecd6.i\20221214.b
Inst ID: ecd6.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
40 2,4-DDD	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.681	6.651-6.711	+++++	+++++
41 2,4-DDT	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.957	6.927-6.987	+++++	+++++
42 Hexachloroethane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	1.774	1.744-1.804	+++++	+++++
43 Oxychlordane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.014	5.984-6.044	+++++	+++++
44 trans-Nonachlor	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.397	6.367-6.427	+++++	+++++
45 cis-Nonachlor	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.112	7.082-7.142	+++++	+++++
46 Mirex	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.082	8.052-8.112	+++++	+++++
47 bis-(2-ethylhexyl) Pht	+++++	+++++	+++++	+++++	+++++	+++++	+++++	20.156	20.126-20.186	+++++	+++++
48 Chlordane (NOS)	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.593	5.563-5.623	+++++	+++++
49 Trifluralin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.319	6.289-6.349	+++++	+++++
50 Dacthal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.936	9.906-9.966	+++++	+++++
51 Oxadiazon	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.891	11.861-11.921	+++++	+++++
52 Kelthane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.827	14.797-14.857	+++++	+++++
53 Chlorpyrifos	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.750	9.720-9.780	+++++	+++++
54 Methyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.107	9.077-9.137	+++++	+++++
55 Ethyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	10.251	10.221-10.281	+++++	+++++
56 Kepone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.588	6.558-6.618	+++++	+++++
57 1-Chloropyrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.953	6.923-6.983	+++++	+++++

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m\PESTB.m
Batch File: \\target\share\chem4\ecd6.i\20221214.b\B20221214.b
Inst ID: ecd6.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06	RT07
FILENAME:	22121428	22121429	22121430	22121431	22121432	22121433	22121434
INJ.DATE:	15-DEC-2022	15-DEC-2022	15-DEC-2022	15-DEC-2022	15-DEC-2022	15-DEC-2022	15-DEC-2022
INJ.TIME:	03:29	03:46	04:04	04:22	04:40	04:58	05:16

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	1 Hexachlorobutadiene [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	2.501	2.471-2.531	+++++	+++++
*	2 1Bromo-2nitrobenzene [	3.351	3.351	3.351	3.351	3.351	3.351	3.351	3.351	3.321-3.381	3.351	0.000
*	3 Hexabromobiphenyl[C]	11.055	11.054	11.054	11.055	11.054	11.054	11.054	11.054	11.024-11.084	11.054	0.000
$	4 Tetrachloro-m-xylene [	4.221	4.220	4.220	4.221	4.221	4.221	4.221	4.220	4.190-4.250	4.221	0.000
	5 Hexachlorobenzene [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.718	4.688-4.748	+++++	+++++
	6 alpha-BHC [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.861	4.831-4.891	+++++	+++++
	7 gamma-BHC (Lindane) [C	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.258	5.228-5.288	+++++	+++++
	8 beta-BHC [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.337	5.307-5.367	+++++	+++++
	9 delta-BHC [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.691	5.661-5.721	+++++	+++++
	10 Heptachlor [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.787	5.757-5.817	+++++	+++++
	11 Chlorthalonil	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.588	14.558-14.618	+++++	+++++
	12 Aldrin [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.191	6.161-6.221	+++++	+++++
	13 Heptachlor Epoxide a	+++++	+++++	+++++	+++++	+++++	+++++	+++++	12.680	12.650-12.710	+++++	+++++
	14 Heptachlor epoxide b [	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.845	6.815-6.875	+++++	+++++
	15 cis-Chlordane [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.216	7.186-7.246	+++++	+++++
	16 trans-Chlordane [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.056	7.026-7.086	+++++	+++++
	17 Endosulfan I [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.289	7.259-7.319	+++++	+++++

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

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m\PESTB.m
Batch File: \\target\share\chem4\ecd6.i\20221214.b\B20221214.b
Inst ID: ecd6.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	18 4,4'-DDE [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.371	7.341-7.401	+++++	+++++
	19 Dieldrin [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.583	7.553-7.613	+++++	+++++
	20 Endrin [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.907	7.877-7.937	+++++	+++++
	21 4,4'-DDD [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.976	7.946-8.006	+++++	+++++
	22 Endosulfan II [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.117	8.087-8.147	+++++	+++++
	23 4,4'-DDT [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.295	8.265-8.325	+++++	+++++
	24 Endrin aldehyde [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.448	8.418-8.478	+++++	+++++
	25 Endosulfan sulfate [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.715	8.685-8.745	+++++	+++++
	26 Methoxychlor [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.936	8.906-8.966	+++++	+++++
	27 Endrin ketone [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.240	9.210-9.270	+++++	+++++
$	28 Decachlorobiphenyl [C]	10.467	10.467	10.467	10.466	10.466	10.466	10.467	10.467	10.437-10.497	10.466	0.000
	29 Aroclor-1016	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.180	4.150-4.210	+++++	+++++
	30 Aroclor-1221	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.051	5.021-5.081	+++++	+++++
	31 Aroclor-1232	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.171	5.141-5.201	+++++	+++++
	32 Aroclor-1242	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.970	4.940-5.000	+++++	+++++
	33 Aroclor-1248	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.285	5.255-5.315	+++++	+++++
	34 Aroclor-1254	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.968	5.938-5.998	+++++	+++++
	35 Aroclor-1260	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.767	6.737-6.797	+++++	+++++
	36 Aroclor-1262	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.714	9.684-9.744	+++++	+++++
	37 Aroclor-1268	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.791	11.761-11.821	+++++	+++++
	38 Toxaphene [C]	7.125	7.125	7.125	7.125	7.126	7.126	7.126	7.126	7.096-7.156	7.125	0.000
	39 2,4-DDE [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.036	7.006-7.066	+++++	+++++

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd6.i\20221214.b\PEST.m\PESTB.m
Batch File: \\target\share\chem4\ecd6.i\20221214.b\B20221214.b
Inst ID: ecd6.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
40 2,4-DDD [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.591	7.561-7.621	+++++	+++++
41 2,4-DDT [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.913	7.883-7.943	+++++	+++++
42 Hexachloroethane [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	1.676	1.646-1.706	+++++	+++++
43 Oxychlordane [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.741	6.711-6.771	+++++	+++++
44 trans-Nonachlor [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.155	7.125-7.185	+++++	+++++
45 cis-Nonachlor [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.975	7.945-8.005	+++++	+++++
46 Mirex [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.223	9.193-9.253	+++++	+++++
47 bis-(2-ethylhexyl) Pht	+++++	+++++	+++++	+++++	+++++	+++++	+++++	21.499	21.469-21.529	+++++	+++++
48 Chlordane (NOS) [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.612	5.582-5.642	+++++	+++++
49 Trifluralin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	4.871	4.841-4.901	+++++	+++++
50 Dacthal	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.640	6.610-6.670	+++++	+++++
51 Oxadiazon	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.115	8.085-8.145	+++++	+++++
52 Kelthane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.286	11.256-11.316	+++++	+++++
53 Chlorpyrifos	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.527	6.497-6.557	+++++	+++++
54 Methyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.342	6.312-6.372	+++++	+++++
55 Ethyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	6.841	6.811-6.871	+++++	+++++
56 Kepone [C]	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.336	7.306-7.366	+++++	+++++
57 1-Chloropyrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.745	7.715-7.775	+++++	+++++

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121403.D
Data file 2: /20221214.b/B20221214.b/22121403.D
Method: \20221214.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-IBL1
Client ID:
Injection Date: 14-DEC-2022 20:02
Report Date: 12/16/2022 15:19
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
----			----			0.00	0.00	---	alpha-BHC
----			----			0.00	0.00	---	beta-BHC
----			----			0.00	0.00	---	delta-BHC
----			----			0.00	0.00	---	gamma-BHC (Lindane)
----			----			0.00	0.00	---	Heptachlor
----			----			0.00	0.00	---	Aldrin
----			6.824	-0.021	2291	0.00	0.14	---	Heptachlor epoxide b
----			----			0.00	0.00	---	Endosulfan I
----			7.597	0.015	1696	0.00	0.11	---	Dieldrin
----			----			0.00	0.00	---	4,4'-DDE
----			----			0.00	0.00	---	Endrin
----			8.135	0.018	285	0.00	0.02	---	Endosulfan II
----			7.975	-0.002	1369	0.00	0.12	---	4,4'-DDD
----			8.720	0.005	243	0.00	0.02	---	Endosulfan sulfate
----			----			0.00	0.00	---	4,4'-DDT
----			8.924	-0.013	546	0.00	0.11	---	Methoxychlor
8.444	-0.009	1962	9.226	-0.013	2888	0.23	0.25	10.1	Endrin ketone
----			----			0.00	0.00	---	Endrin aldehyde
----			7.070	0.014	4708	0.00	0.30	---	trans-Chlordane
----			7.219	0.003	810	0.00	0.05	---	cis-Chlordane
2.351	0.028	6378	2.512	0.012	33421	0.42	1.60	116.6*	Hexachlorobutadiene
4.183	0.001	4869	4.721	0.003	421	0.36	0.02	178.1*	Hexachlorobenzene
3.828	0.000	375293	4.220	-0.000	579767	36.70	37.46	2.1	Tetrachloro-m-xylene
9.356	0.001	243291	10.467	0.000	323668	35.86	35.40	1.3	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

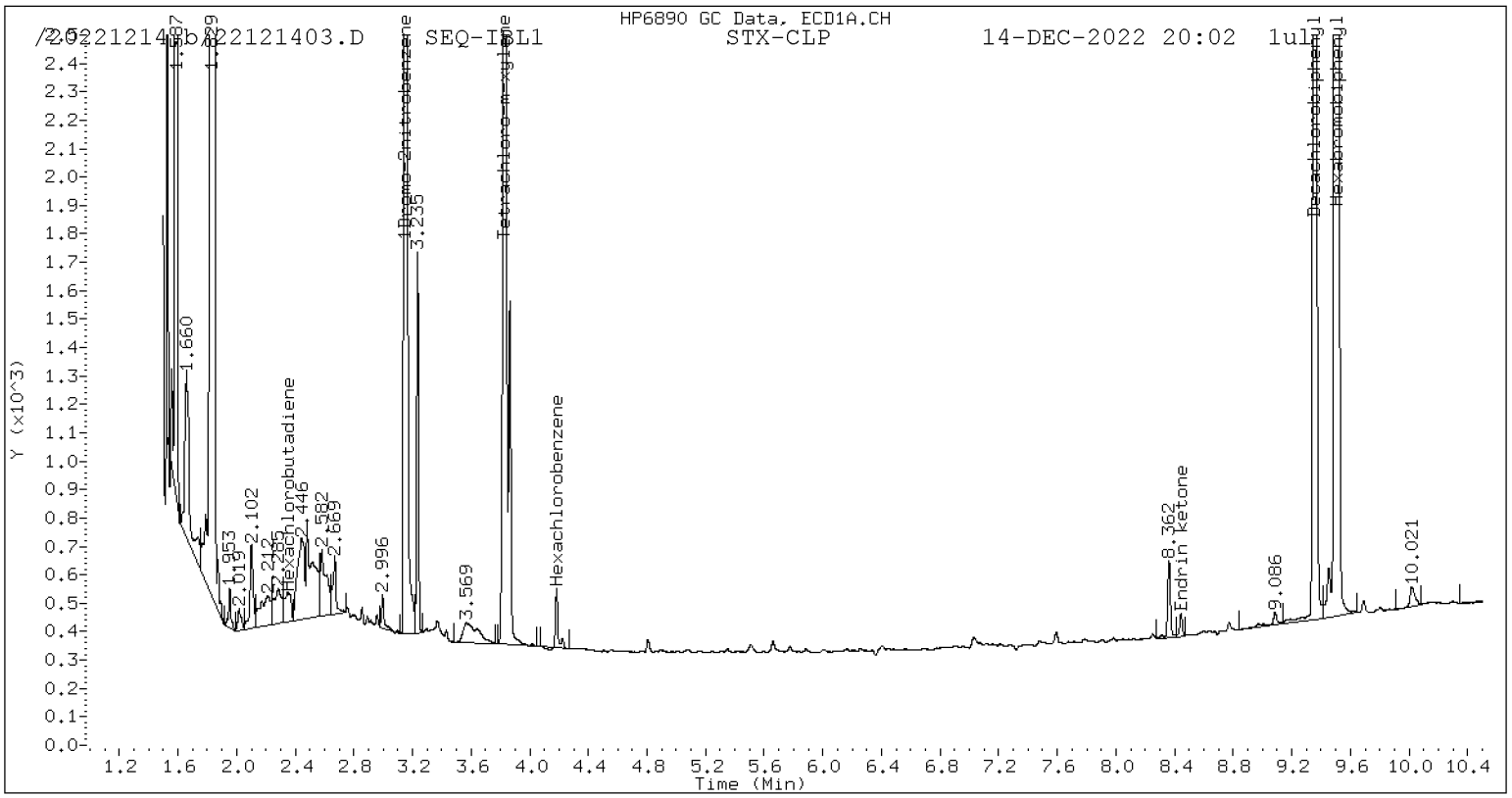
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	710650	751998	5.8
Hexabromobiphenyl	641833	669495	4.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1058848	1099555	3.8
Hexabromobiphenyl	797125	827325	3.8

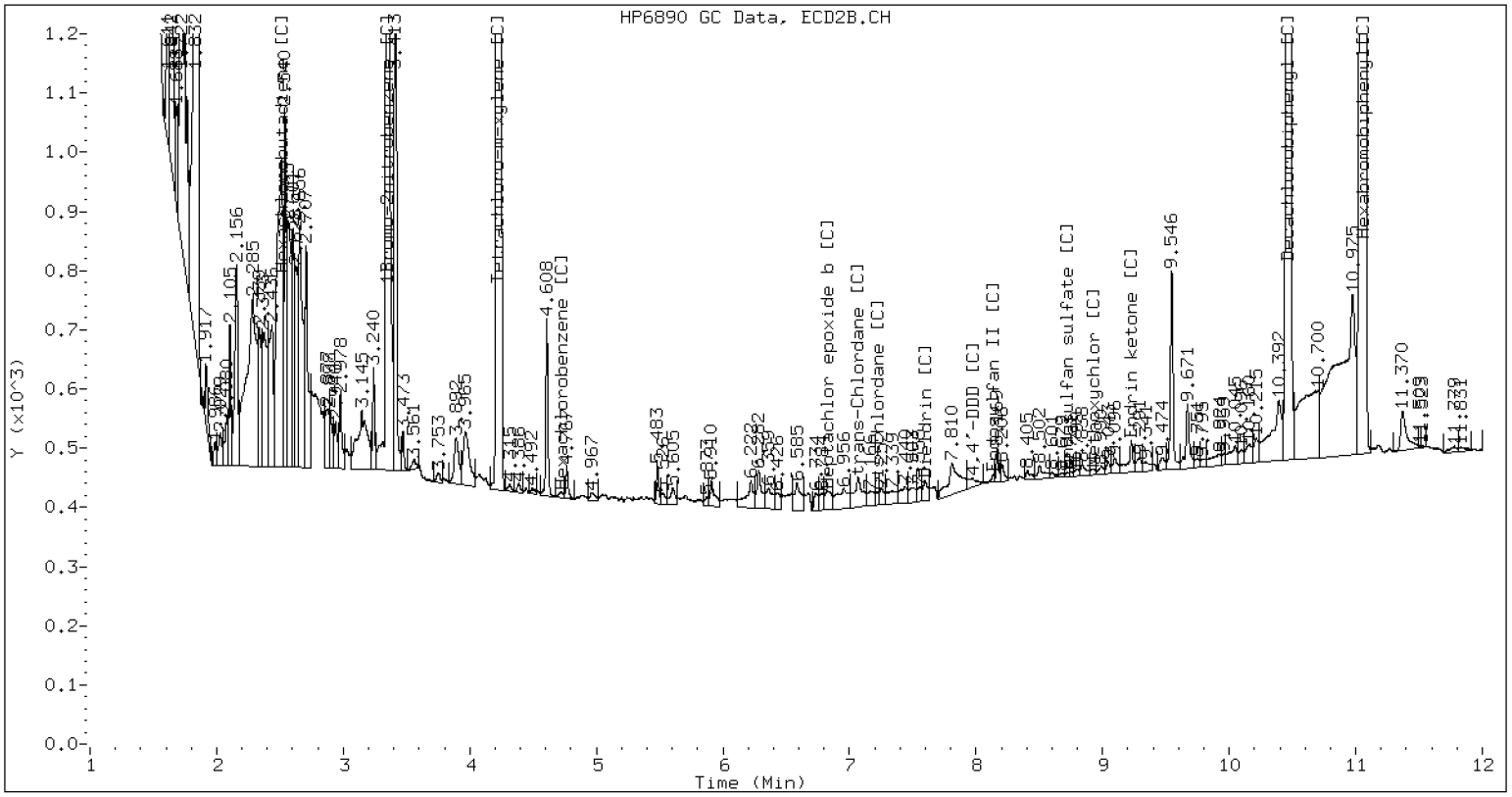
* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121403.D SEQ-IBL1 CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121403.D
Data file 2: /20221214.b/B20221214.b/22121403.D
Method: \20221214.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-IBL1
Client ID:
Injection Date: 14-DEC-2022 20:02
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag

7E

8081 DDT/ENDRIN BREAKDOWN VERIFICATION SUMMARY

Lab ID: SEQ-PEM1 InstID,Data File: ecd6.i, 22121404.D

Analysis Date: 14-DEC-2022 20:20 Init. Calib. Date: 14-DEC-2022

GC Column: STX-CLP1 ID: 0.53(mm)

COMPOUND	RT	AREA
1Bromo-2nitrobenzene	3.151	683485
4,4'-DDE	6.490	6258
Endrin	7.082	745471
4,4'-DDD	7.136	15566
4,4'-DDT	7.428	629664
Endrin ketone	8.453	19276
Endrin aldehyde	7.747	21328
Hexabromobiphenyl	9.504	619012
Tetrachloro-m-xylene	3.828	1161664
Decachlorobiphenyl	9.355	833312

DDT Percent Breakdown = 3.3 %
((6258+15566) * 100)/(6258+15566+629664)

Endrin Percent Breakdown = 5.2 %
((21328+19276) * 100)/(21328+19276+745471)

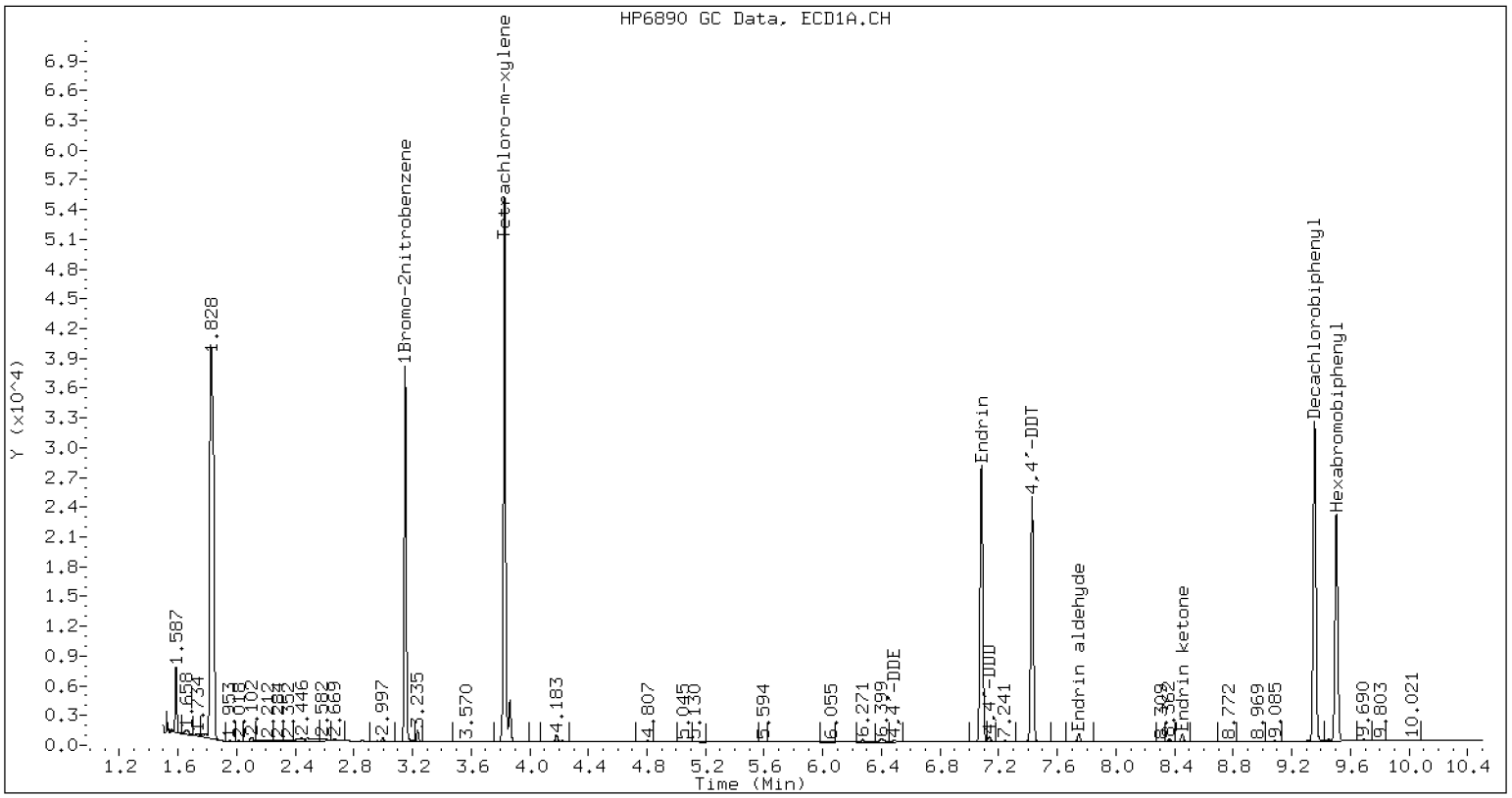
GC Column: STX-CLP2 ID: 0.53(mm)

COMPOUND	RT	AREA
1Bromo-2nitrobenzene [C]	3.350	1005375
4,4'-DDE [C]	7.370	11906
Endrin [C]	7.907	1029194
4,4'-DDD [C]	7.977	32697
4,4'-DDT [C]	8.295	890195
Endrin ketone [C]	9.239	28268
Endrin aldehyde [C]	8.448	31426
Hexabromobiphenyl[C]	11.054	772586
Tetrachloro-m-xylene [C]	4.220	1890294
Decachlorobiphenyl [C]	10.467	1140978

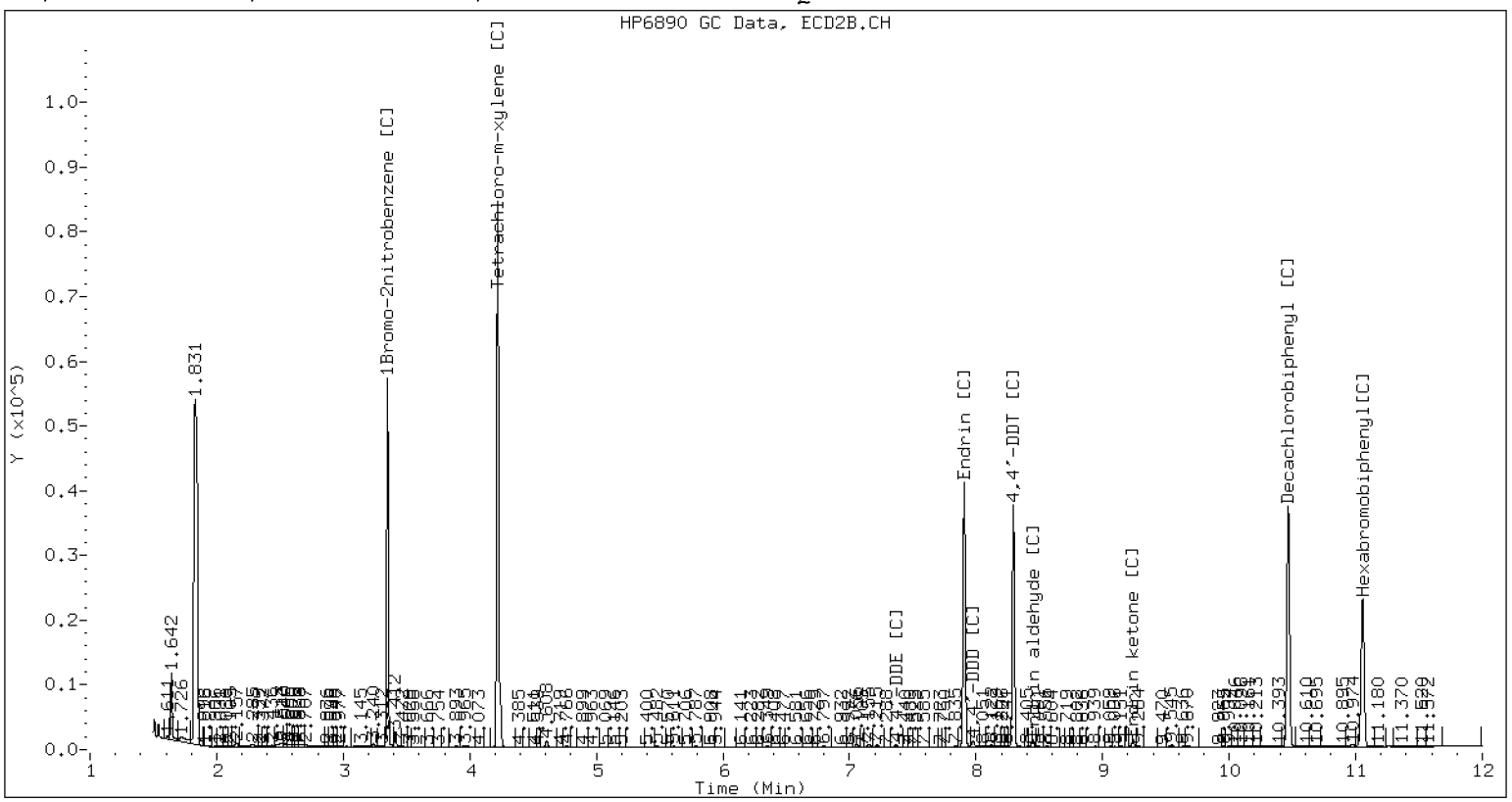
DDT Percent Breakdown = 4.8 %
((11906+32697) * 100)/(11906+32697+890195)

Endrin Percent Breakdown = 5.5 %
((31426+28268) * 100)/(31426+28268+1029194)

/20221214.b/22121404.D SEQ-PEM1 STX-CLP 14-DEC-2022 20:20 1ul



/20221214.b/B20221214.b/22121404.D SEQ-PEM1 CLP2 14-DEC-2022



7E

8081 DDT/ENDRIN BREAKDOWN VERIFICATION SUMMARY

Lab ID: SEQ-PEM1 InstID,Data File: ecd6.i, 22121404.D

Analysis Date: 14-DEC-2022 20:20 Init. Calib. Date: 14-DEC-2022

GC Column: STX-CLP1 ID: 0.53(mm)

COMPOUND	RT	AREA
1Bromo-2nitrobenzene	3.151	683485
4,4'-DDE	6.490	6258
Endrin	7.082	745471
4,4'-DDD	7.136	15566
4,4'-DDT	7.428	629664
Endrin ketone	8.453	19276
Endrin aldehyde	7.747	21328
Hexabromobiphenyl	9.504	619012
Tetrachloro-m-xylene	3.828	1161664
Decachlorobiphenyl	9.355	833312

DDT Percent Breakdown = 3.3 %
((6258+15566) * 100)/(6258+15566+629664)

Endrin Percent Breakdown = 5.2 %
((21328+19276) * 100)/(21328+19276+745471)

GC Column: STX-CLP1 ID: 0.53(mm)

COMPOUND	RT	AREA
Decachlorobiphenyl	9.355	833312
Decachlorobiphenyl	9.355	833312
Decachlorobiphenyl	9.355	833312

Decachlorobiphenyl	9.355	833312
Decachlorobiphenyl	9.355	833312
Decachlorobiphenyl	9.355	833312
Decachlorobiphenyl	9.355	833312
Decachlorobiphenyl	9.355	833312
Decachlorobiphenyl	9.355	833312
Decachlorobiphenyl	9.355	833312

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121405.D
Data file 2: /20221214.b/B20221214.b/22121405.D
Method: \20221214.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL1
Client ID:
Injection Date: 14-DEC-2022 20:38
Report Date: 12/16/2022 15:19
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
4.342	-0.000	17720	4.860	-0.001	25579	1.30	1.22	6.4	alpha-BHC
4.726	-0.000	7513	5.337	-0.000	10927	1.43	1.37	4.4	beta-BHC
4.909	-0.000	14050	5.690	-0.000	21188	1.26	1.23	2.8	delta-BHC
4.645	-0.000	15329	5.257	-0.001	21981	1.30	1.24	4.9	gamma-BHC (Lindane)
5.130	-0.000	14540	5.786	-0.000	20395	1.38	1.27	8.9	Heptachlor
5.453	-0.001	15026	6.190	-0.001	24413	1.28	1.33	3.9	Aldrin
6.130	0.000	13937	6.845	-0.000	21959	1.37	1.44	5.6	Heptachlor epoxide b
6.572	-0.000	13220	7.288	-0.000	19257	1.41	1.44	1.8	Endosulfan I
6.831	0.000	27285	7.582	-0.001	43580	2.71	2.94	8.2	Dieldrin
6.489	0.000	25951	7.370	-0.001	37722	2.78	2.78	0.0	4,4'-DDE
7.081	0.000	24429	7.906	-0.001	31381	2.94	2.78	5.3	Endrin
7.318	0.001	19827	8.117	-0.000	30675	2.65	2.66	0.3	Endosulfan II
7.135	0.000	20434	7.976	-0.000	28995	2.73	2.65	3.0	4,4'-DDD
8.180	-0.000	19661	8.715	-0.000	26689	2.76	2.63	4.9	Endosulfan sulfate
7.427	0.000	20071	8.294	-0.001	26950	2.65	2.55	3.9	4,4'-DDT
7.912	-0.000	52385	8.935	-0.001	65896	15.60	14.07	10.3	Methoxychlor
8.453	-0.001	24276	9.239	-0.000	30129	2.98	2.75	8.0	Endrin ketone
7.746	-0.000	17209	8.448	-0.000	21218	2.88	2.60	10.1	Endrin aldehyde
6.270	-0.001	14829	7.056	-0.000	22517	1.43	1.48	3.7	trans-Chlordane
6.417	0.000	15767	7.215	-0.000	22150	1.52	1.49	1.6	cis-Chlordane
2.323	-0.001	27320	2.500	-0.001	42655	1.92	2.14	11.3	Hexachlorobutadiene
4.182	0.000	18555	4.718	-0.000	27377	1.47	1.44	2.2	Hexachlorobenzene
3.828	-0.000	28792	4.220	-0.001	41270	2.99	2.80	6.5	Tetrachloro-m-xylene
9.355	-0.000	21954	10.466	-0.000	30646	3.41	3.50	2.5	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

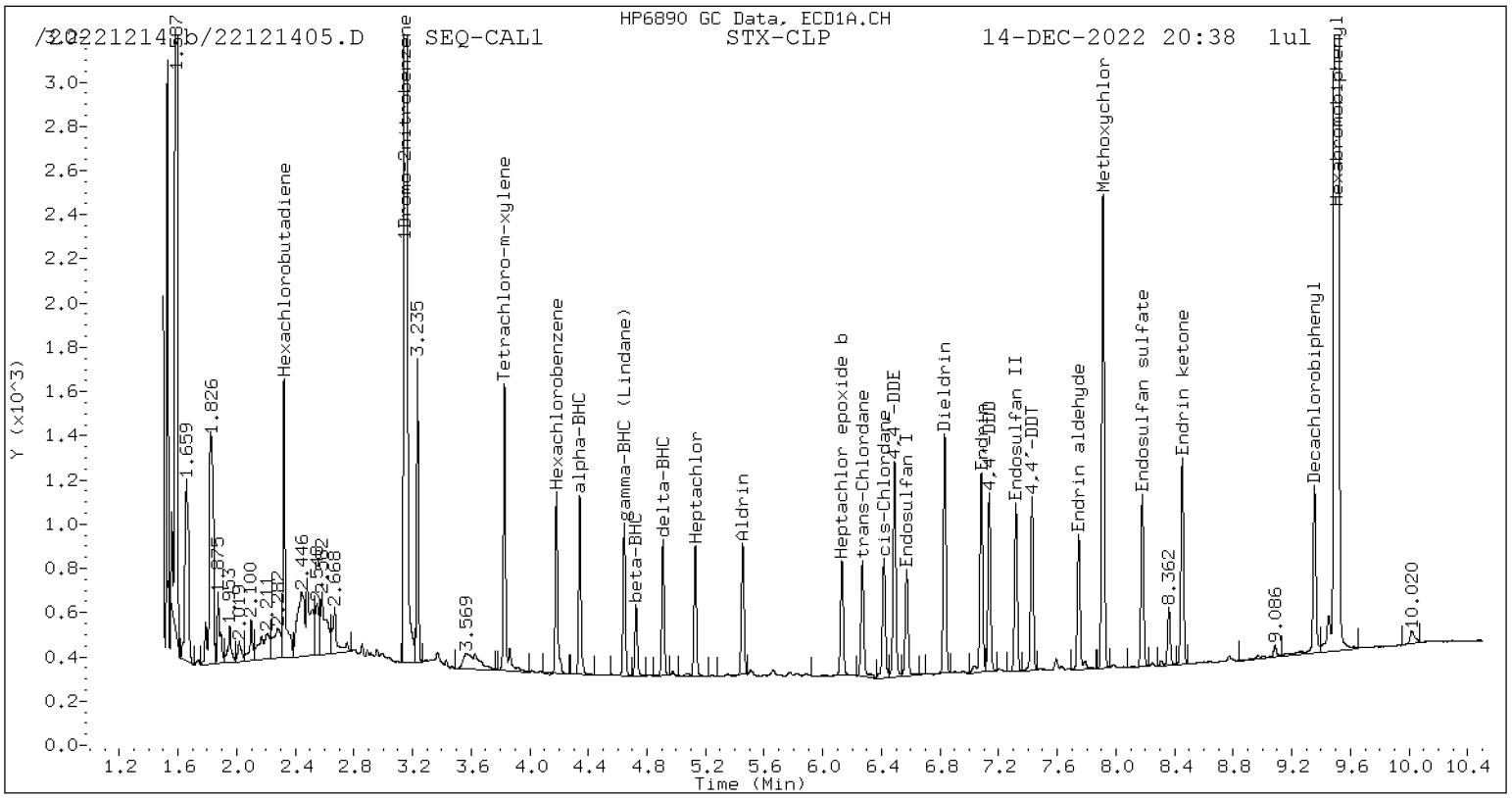
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	710650	707324	-0.5
Hexabromobiphenyl	641833	634819	-1.1

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1058848	1045524	-1.3
Hexabromobiphenyl	797125	792558	-0.6

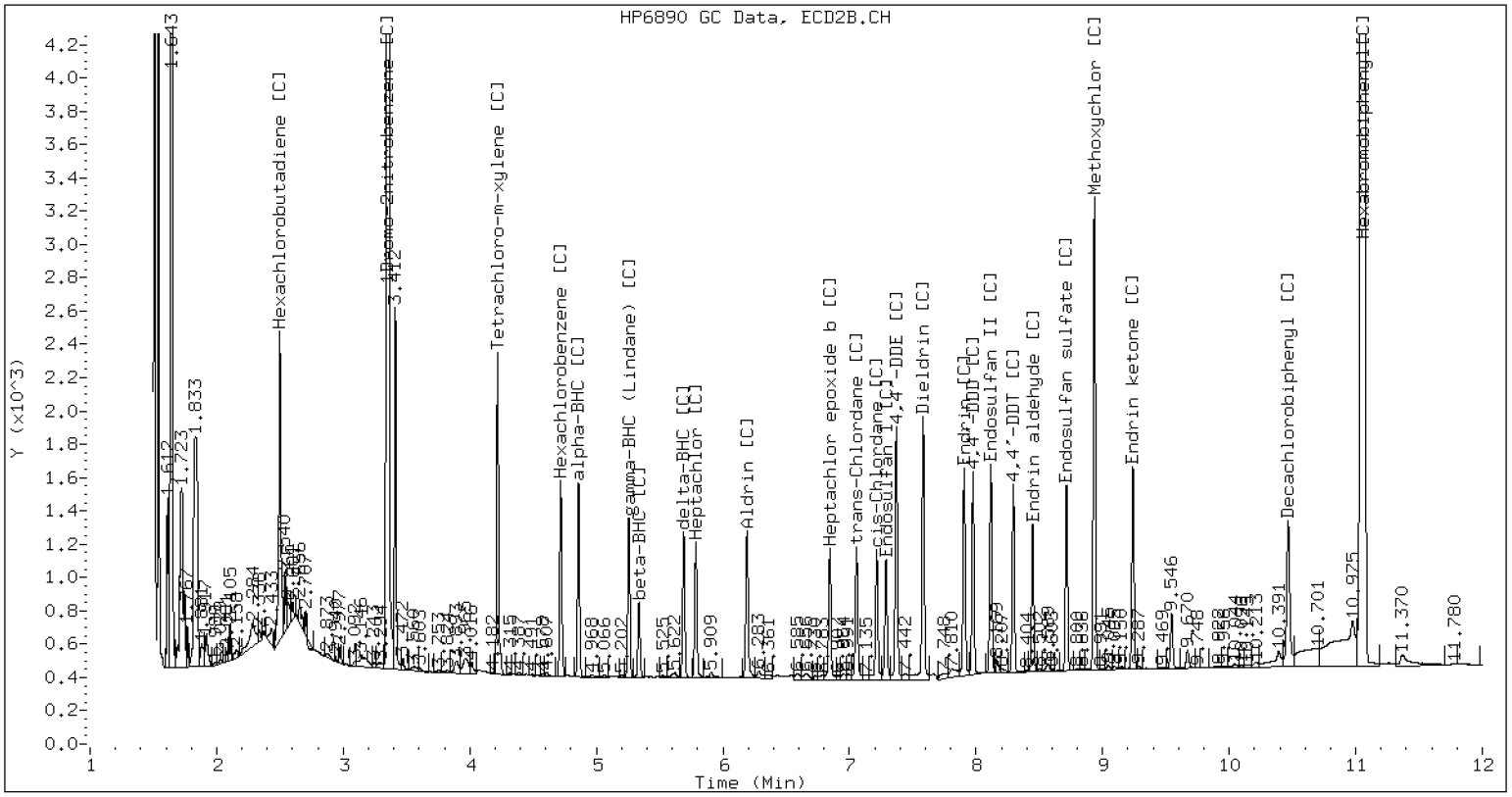
* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121405.D SEQ-CAL1 CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121405.D
Data file 2: /20221214.b/B20221214.b/22121405.D
Method: \20221214.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL1
Client ID:
Injection Date: 14-DEC-2022 20:38
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121406.D
Data file 2: /20221214.b/B20221214.b/22121406.D
Method: \20221214.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL2
Client ID:
Injection Date: 14-DEC-2022 20:56
Report Date: 12/16/2022 15:19
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
4.342	-0.000	35088	4.859	-0.001	52514	2.54	2.47	2.9	alpha-BHC
4.726	-0.000	14580	5.337	-0.000	21664	2.74	2.68	2.4	beta-BHC
4.909	-0.000	28429	5.691	-0.000	43932	2.52	2.51	0.5	delta-BHC
4.645	0.000	30588	5.257	-0.001	44971	2.55	2.49	2.5	gamma-BHC (Lindane)
5.129	-0.001	28458	5.787	-0.000	42156	2.67	2.58	3.6	Heptachlor
5.453	-0.001	30273	6.190	-0.001	50159	2.53	2.69	5.8	Aldrin
6.130	-0.001	27608	6.845	-0.001	43067	2.67	2.79	4.5	Heptachlor epoxide b
6.572	-0.000	25650	7.288	-0.001	37112	2.70	2.73	1.0	Endosulfan I
6.832	0.000	54960	7.582	-0.001	84296	5.38	5.60	4.0	Dieldrin
6.489	-0.000	51182	7.370	-0.001	74355	5.40	5.39	0.2	4,4'-DDE
7.081	0.000	46577	7.906	-0.001	63434	5.52	5.52	0.1	Endrin
7.317	0.001	37804	8.116	-0.001	65448	4.98	5.56	11.1	Endosulfan II
7.136	0.001	40399	7.976	-0.001	62302	5.32	5.58	4.8	4,4'-DDD
8.179	-0.001	38342	8.714	-0.001	57421	5.32	5.56	4.4	Endosulfan sulfate
7.427	-0.000	40499	8.294	-0.001	59346	5.27	5.51	4.3	4,4'-DDT
7.912	-0.000	98271	8.934	-0.002	130815	28.88	27.42	5.2	Methoxychlor
8.452	-0.001	45639	9.239	-0.001	62360	5.53	5.59	1.1	Endrin ketone
7.746	0.000	32847	8.447	-0.001	47592	5.42	5.73	5.6	Endrin aldehyde
6.271	0.000	28307	7.055	-0.001	41633	2.69	2.70	0.4	trans-Chlordane
6.417	0.000	29336	7.215	-0.000	41766	2.78	2.77	0.3	cis-Chlordane
2.323	-0.001	44113	2.500	-0.001	65565	3.05	3.24	6.2	Hexachlorobutadiene
4.182	-0.000	35520	4.718	-0.000	53173	2.77	2.75	0.9	Hexachlorobenzene
3.828	-0.000	54873	4.220	-0.001	81034	5.62	5.42	3.7	Tetrachloro-m-xylene
9.354	-0.001	38477	10.465	-0.001	54866	5.90	6.15	4.1	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

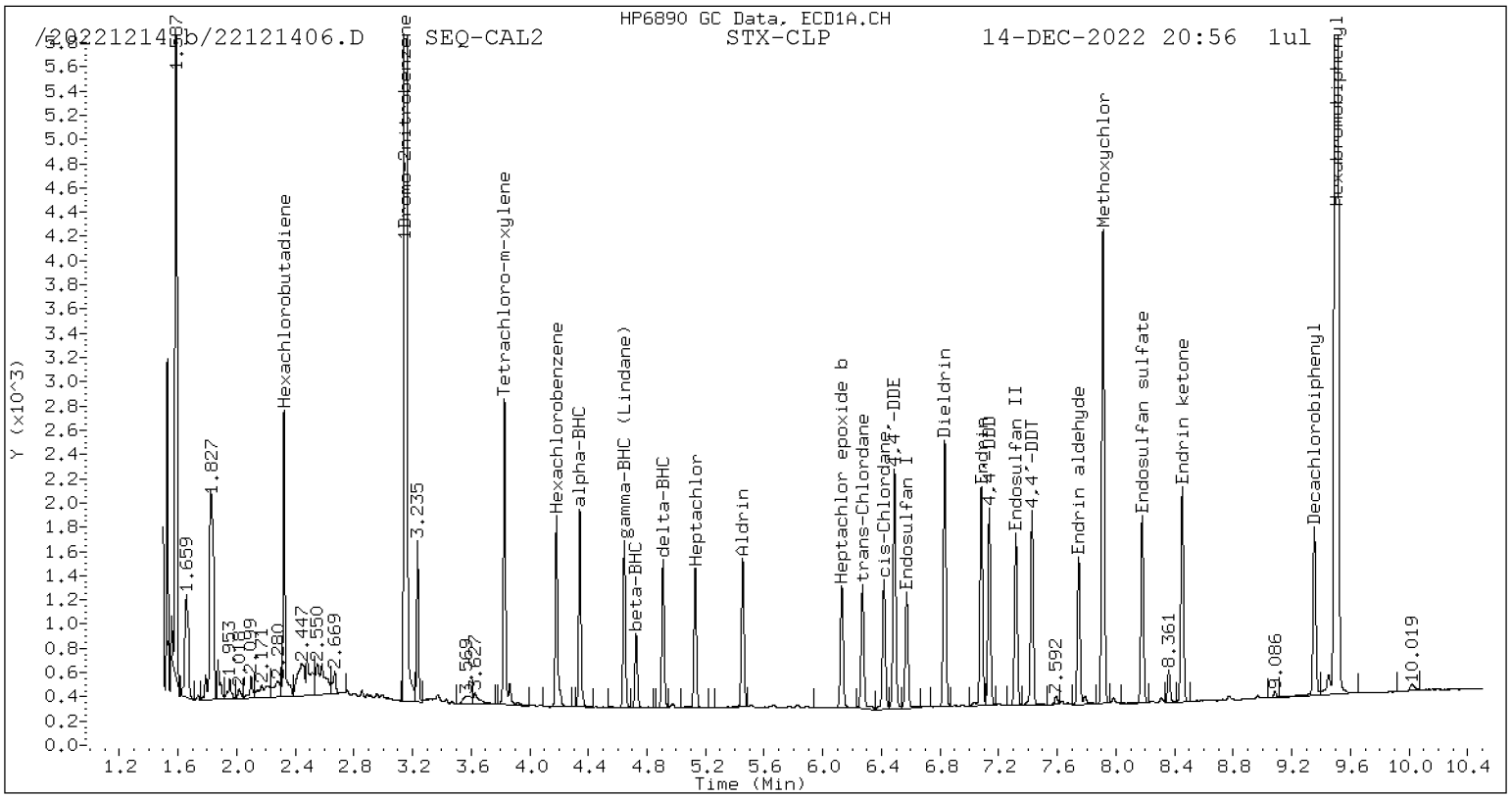
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	710650	717600	1.0
Hexabromobiphenyl	641833	643445	0.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1058848	1061990	0.3
Hexabromobiphenyl	797125	807490	1.3

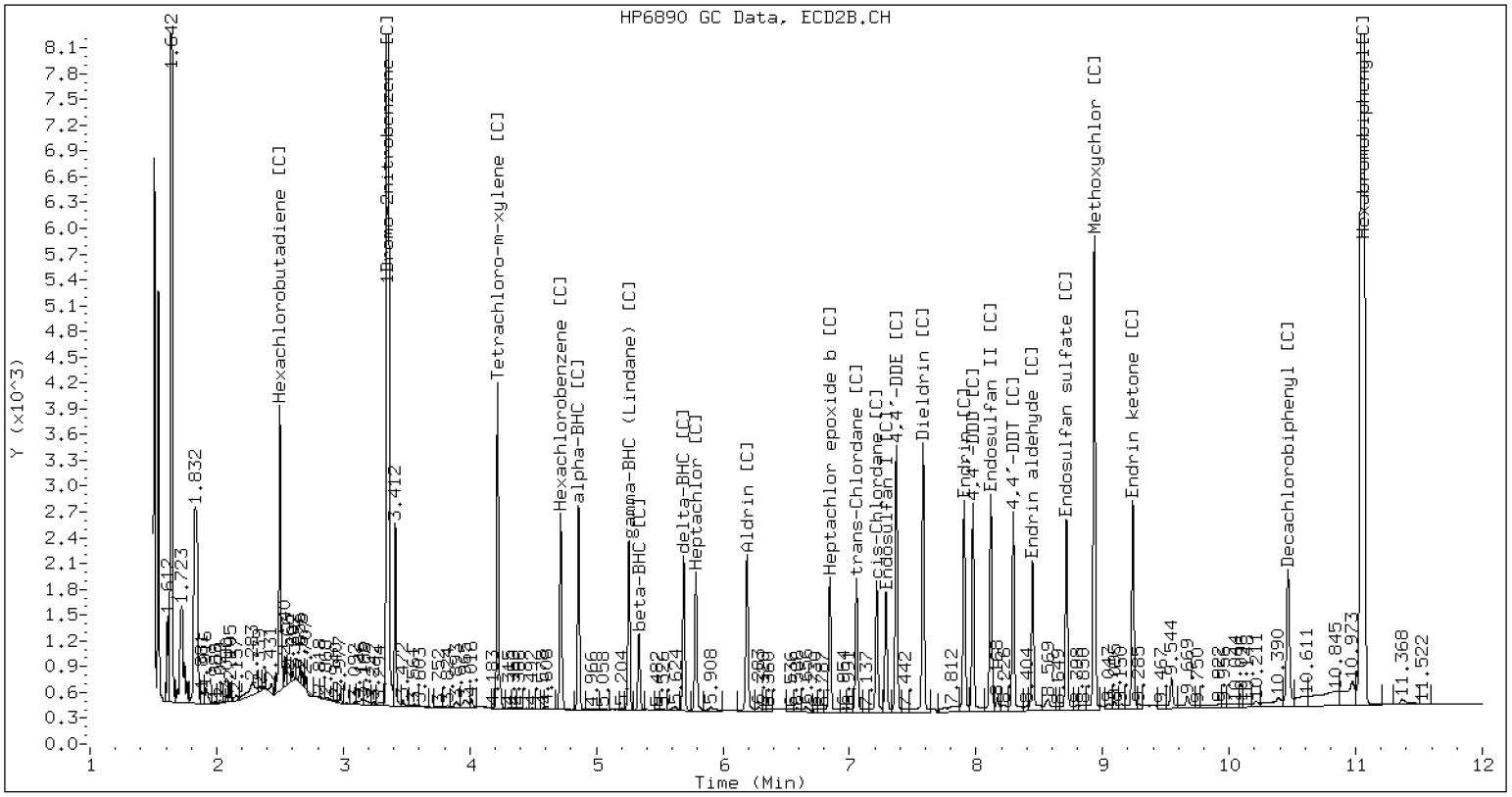
* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121406.D SEQ-CAL2 CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121406.D
Data file 2: /20221214.b/B20221214.b/22121406.D
Method: \20221214.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL2
Client ID:
Injection Date: 14-DEC-2022 20:56
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121407.D
Data file 2: /20221214.b/B20221214.b/22121407.D
Method: \20221214.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL3
Client ID:
Injection Date: 14-DEC-2022 21:14
Report Date: 12/16/2022 15:19
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
4.343	0.001	68202	4.860	-0.000	103195	5.06	4.95	2.2	alpha-BHC
4.727	0.000	26774	5.338	0.000	40159	5.16	5.06	1.8	beta-BHC
4.910	0.001	55344	5.691	0.000	85044	5.02	4.95	1.5	delta-BHC
4.646	0.001	59491	5.258	0.000	87747	5.09	4.96	2.6	gamma-BHC (Lindane)
5.130	0.000	53529	5.787	0.000	80295	5.15	5.01	2.7	Heptachlor
5.455	0.001	59061	6.191	0.000	92167	5.07	5.03	0.7	Aldrin
6.132	0.001	52071	6.845	-0.000	76415	5.15	5.05	2.1	Heptachlor epoxide b
6.573	0.001	48052	7.289	-0.000	67929	5.18	5.09	1.8	Endosulfan I
6.832	0.001	104217	7.583	-0.000	151301	10.46	10.26	1.9	Dieldrin
6.490	0.001	97042	7.371	0.000	139172	10.49	10.29	1.9	4,4'-DDE
7.082	0.001	87185	7.906	-0.001	115830	10.66	10.37	2.8	Endrin
7.318	0.001	77341	8.117	0.000	118175	10.50	10.32	1.8	Endosulfan II
7.136	0.001	77451	7.976	0.000	110178	10.51	10.14	3.6	4,4'-DDD
8.180	0.001	73440	8.715	0.000	102417	10.50	10.18	3.1	Endosulfan sulfate
7.428	0.001	77522	8.294	-0.001	105882	10.41	10.09	3.1	4,4'-DDT
7.913	0.001	178164	8.935	-0.001	239047	53.98	51.49	4.7	Methoxychlor
8.454	0.000	84510	9.239	-0.000	110024	10.55	10.13	4.1	Endrin ketone
7.746	0.001	61122	8.448	-0.000	82817	10.40	10.25	1.5	Endrin aldehyde
6.271	0.001	52622	7.056	-0.000	76513	5.13	5.07	1.1	trans-Chlordane
6.417	0.001	53515	7.216	0.000	75023	5.20	5.08	2.3	cis-Chlordane
2.324	-0.000	75632	2.500	-0.000	107268	5.35	5.41	1.1	Hexachlorobutadiene
4.183	0.001	66090	4.718	-0.000	98926	5.28	5.21	1.3	Hexachlorobenzene
3.828	0.000	101081	4.220	-0.000	153451	10.61	10.47	1.3	Tetrachloro-m-xylene
9.355	-0.000	67797	10.466	-0.000	92260	10.72	10.62	0.9	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

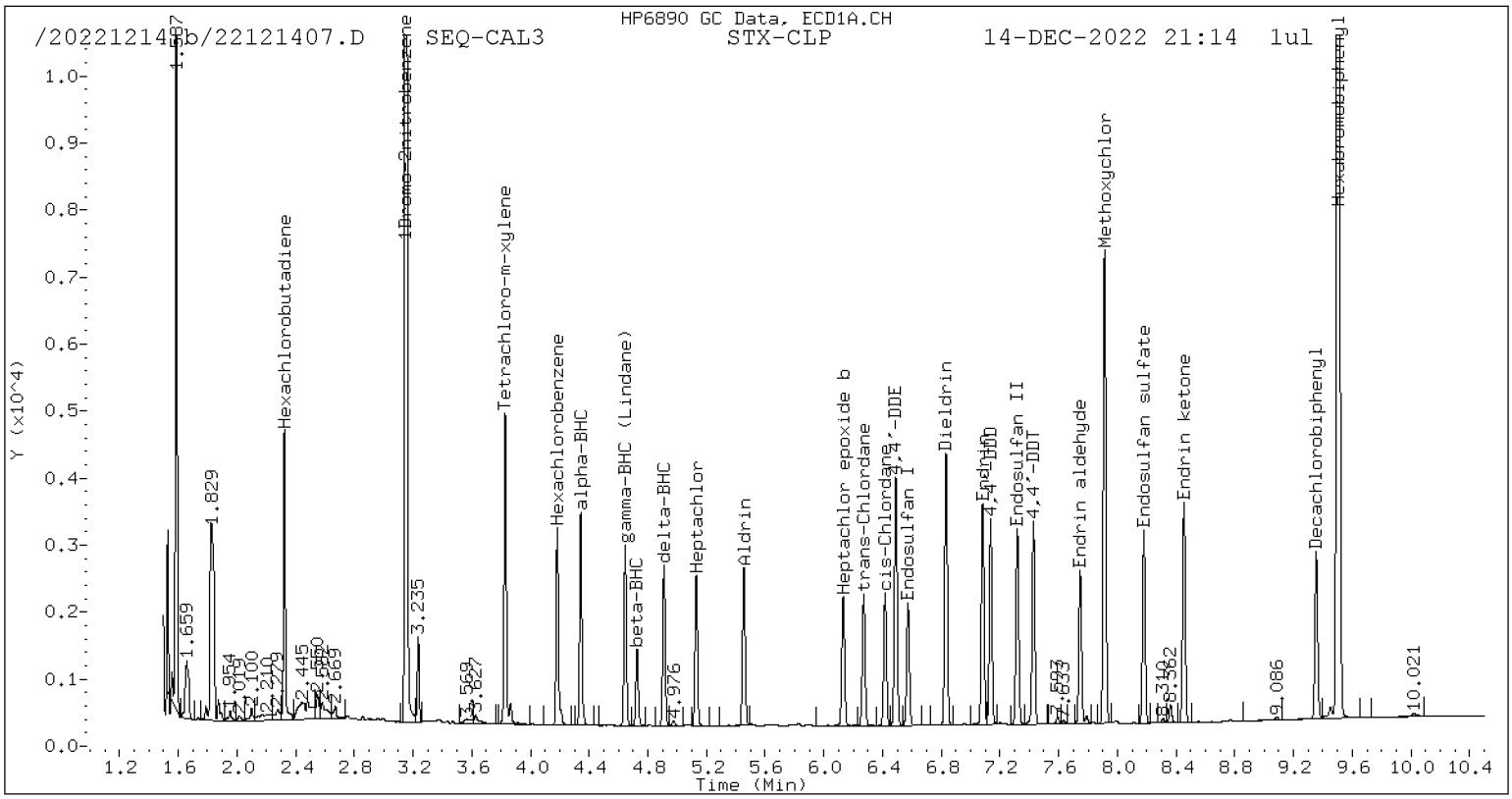
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	710650	700354	-1.4
Hexabromobiphenyl	641833	624108	-2.8

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1058848	1040903	-1.7
Hexabromobiphenyl	797125	785894	-1.4

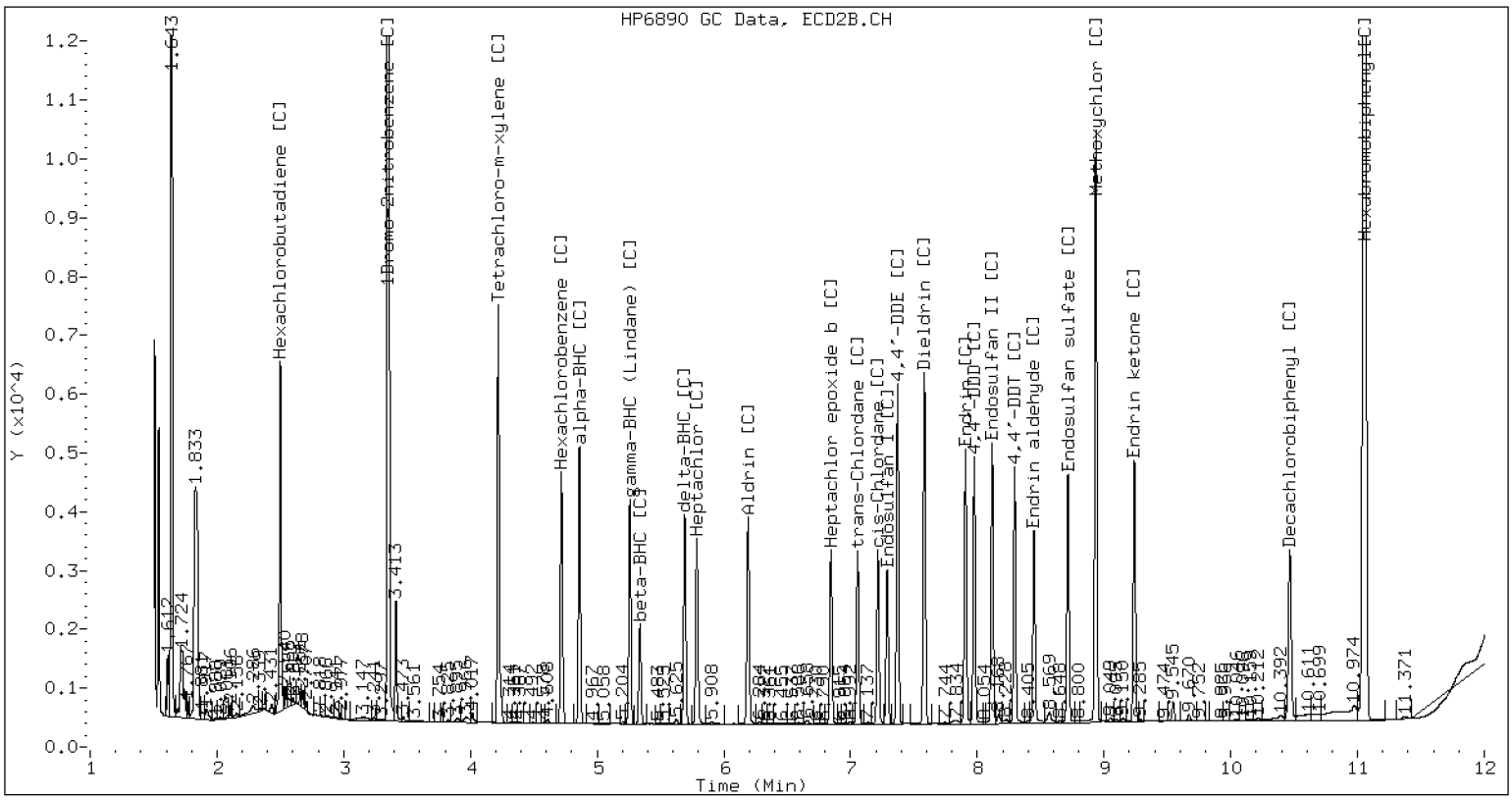
* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121407.D SEQ-CAL3 CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121407.D
Data file 2: /20221214.b/B20221214.b/22121407.D
Method: \20221214.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL3
Client ID:
Injection Date: 14-DEC-2022 21:14
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121408.D
Data file 2: /20221214.b/B20221214.b/22121408.D
Method: \20221214.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL4
Client ID:
Injection Date: 14-DEC-2022 21:31
Report Date: 12/16/2022 15:19
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
4.343	0.000	139784	4.860	-0.000	216159	10.22	10.19	0.3	alpha-BHC
4.726	0.000	53742	5.337	0.000	81857	10.20	10.15	0.6	beta-BHC
4.910	0.001	113586	5.691	0.000	177281	10.16	10.14	0.2	delta-BHC
4.646	0.000	121488	5.258	0.000	182844	10.24	10.15	0.9	gamma-BHC (Lindane)
5.130	0.000	108260	5.787	-0.000	166558	10.26	10.21	0.5	Heptachlor
5.454	0.000	124839	6.191	0.000	189618	10.55	10.18	3.6	Aldrin
6.131	0.001	107301	6.846	0.001	155424	10.46	10.09	3.6	Heptachlor epoxide b
6.573	0.000	97151	7.289	0.000	137043	10.32	10.10	2.2	Endosulfan I
6.832	0.001	210564	7.583	0.000	301602	20.82	20.11	3.5	Dieldrin
6.490	0.001	195139	7.371	0.000	281756	20.79	20.49	1.5	4,4'-DDE
7.082	0.001	173216	7.907	-0.000	231062	20.59	20.39	1.0	Endrin
7.318	0.001	161303	8.117	0.001	236844	21.29	20.39	4.4	Endosulfan II
7.136	0.001	157301	7.977	0.001	222755	20.75	20.21	2.7	4,4'-DDD
8.180	0.000	146955	8.715	0.000	205334	20.43	20.13	1.5	Endosulfan sulfate
7.428	0.001	156744	8.295	-0.000	212755	20.46	19.99	2.3	4,4'-DDT
7.912	0.001	344324	8.936	-0.001	473459	101.43	100.55	0.9	Methoxychlor
8.453	-0.000	167384	9.240	0.000	222080	20.31	20.15	0.8	Endrin ketone
7.746	0.000	123653	8.448	0.000	164391	20.47	20.06	2.0	Endrin aldehyde
6.271	0.001	106805	7.056	0.000	154174	10.25	10.04	2.1	trans-Chlordane
6.418	0.001	106651	7.216	0.001	150231	10.21	10.00	2.1	cis-Chlordane
2.323	-0.000	142895	2.500	-0.001	197539	9.97	9.80	1.7	Hexachlorobutadiene
4.183	0.000	130020	4.718	0.000	197396	10.24	10.22	0.1	Hexachlorobenzene
3.828	0.000	199446	4.220	-0.000	308345	20.64	20.69	0.2	Tetrachloro-m-xylene
9.355	0.000	130210	10.466	-0.000	170633	20.02	19.37	3.3	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

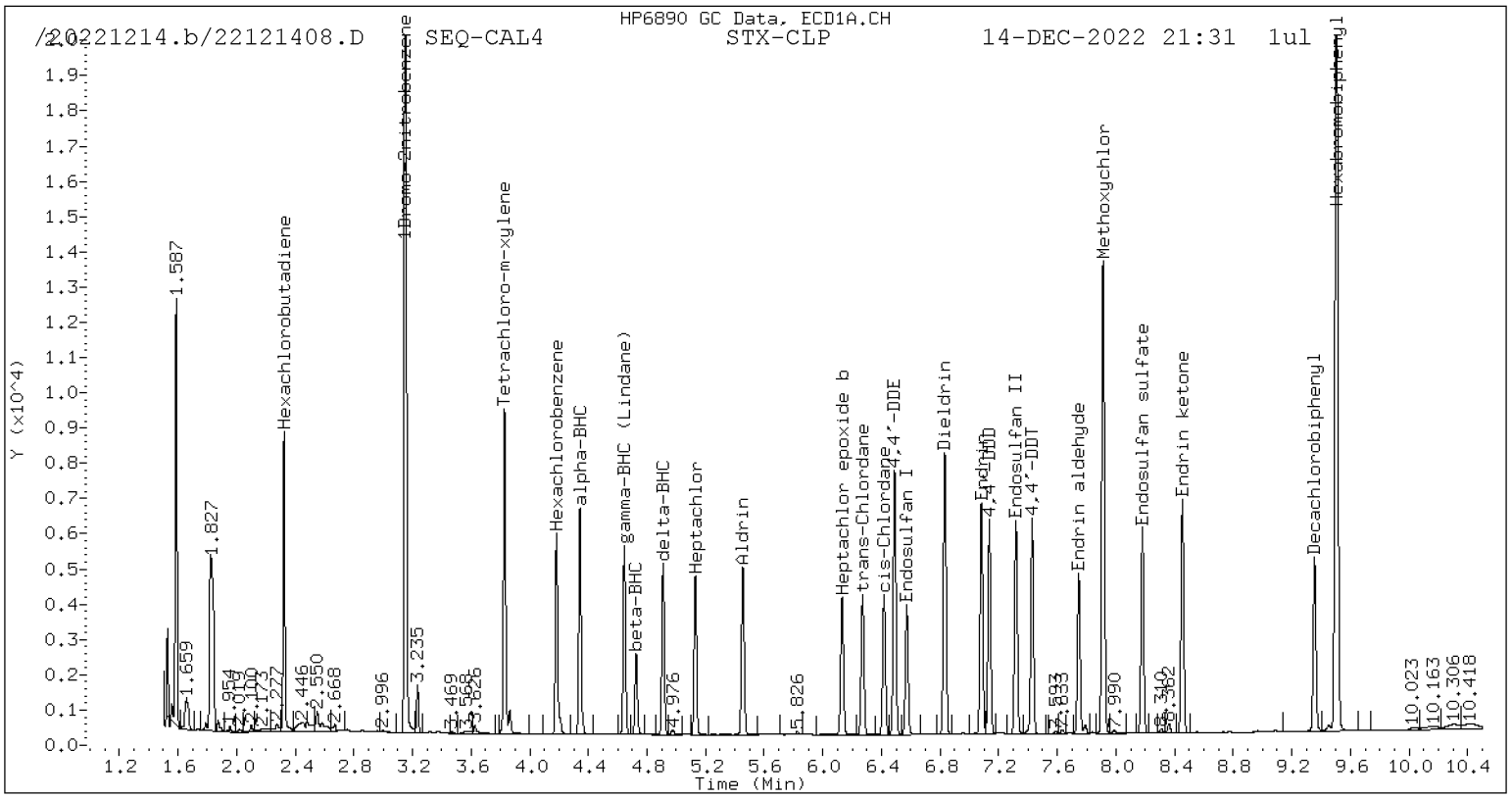
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	710650	710650	0.0
Hexabromobiphenyl	641833	641833	0.0

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1058848	1058848	0.0
Hexabromobiphenyl	797125	797125	0.0

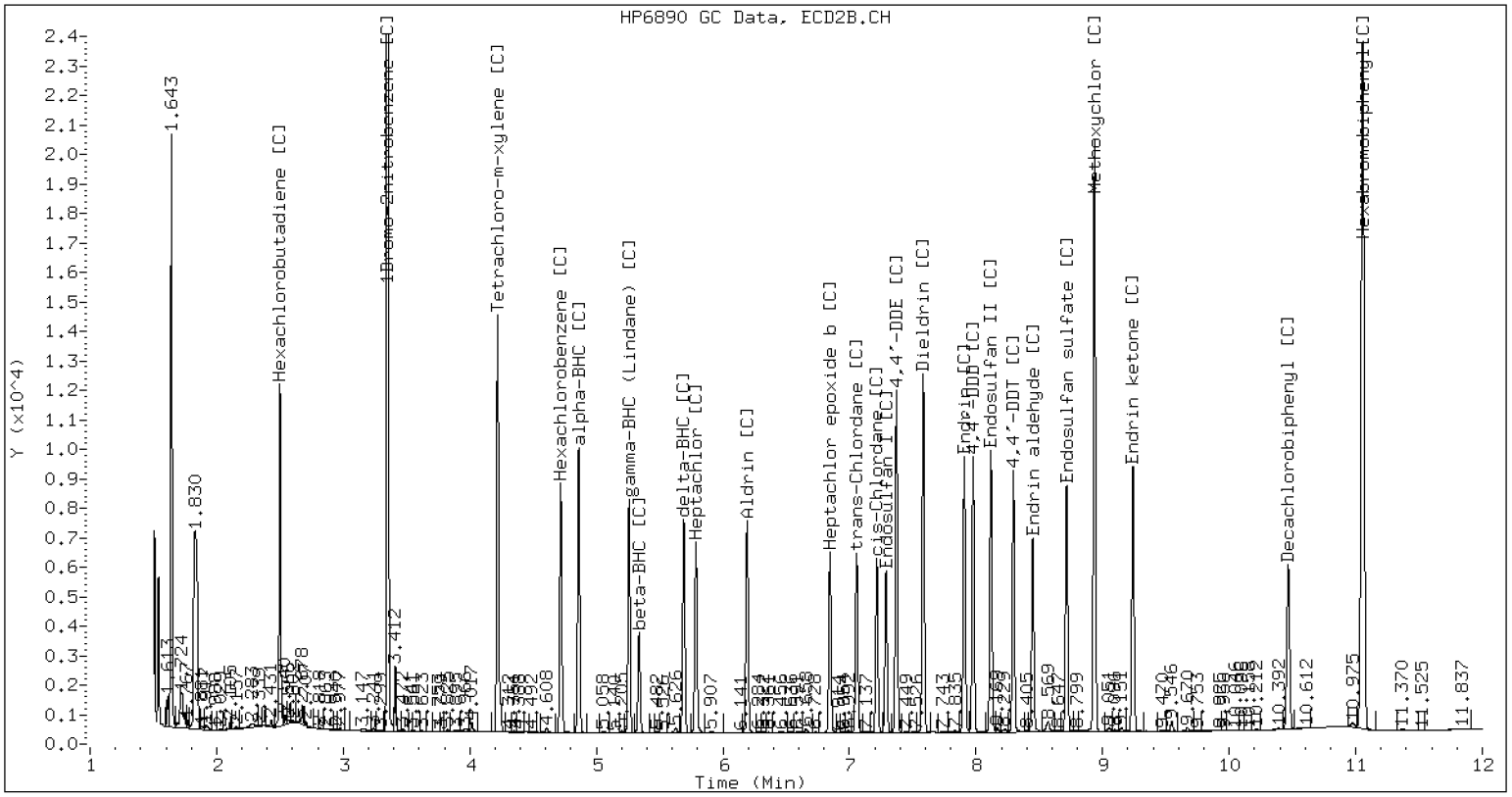
* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121408.D SEQ-CAL4 CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121408.D
Data file 2: /20221214.b/B20221214.b/22121408.D
Method: \20221214.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL4
Client ID:
Injection Date: 14-DEC-2022 21:31
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121409.D
Data file 2: /20221214.b/B20221214.b/22121409.D
Method: \20221214.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL5
Client ID:
Injection Date: 14-DEC-2022 21:49
Report Date: 12/16/2022 15:30
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
4.342	0.000	263355	4.860	-0.001	412780	20.34	20.46	0.6	alpha-BHC
4.726	0.000	99355	5.337	-0.000	154138	19.93	20.10	0.8	beta-BHC
4.909	0.000	216224	5.690	-0.000	334261	20.44	20.12	1.6	delta-BHC
4.645	0.000	228274	5.258	-0.000	350450	20.34	20.47	0.7	gamma-BHC (Lindane)
5.130	0.000	203067	5.787	-0.000	320123	20.33	20.64	1.5	Heptachlor
5.454	0.000	230734	6.191	-0.000	359912	20.62	20.33	1.4	Aldrin
6.130	0.000	198033	6.845	-0.000	295580	20.41	20.19	1.1	Heptachlor epoxide b
6.572	0.000	180905	7.289	-0.000	260351	20.31	20.18	0.7	Endosulfan I
6.831	0.000	388583	7.582	-0.000	571731	40.61	40.10	1.3	Dieldrin
6.489	0.000	362177	7.370	-0.000	531128	40.77	40.63	0.4	4,4'-DDE
7.081	0.000	323576	7.907	-0.000	442460	40.48	40.43	0.1	Endrin
7.317	0.000	282010	8.117	-0.000	446656	39.19	39.81	1.6	Endosulfan II
7.135	0.000	292251	7.976	-0.000	427990	40.58	40.20	0.9	4,4'-DDD
8.180	0.000	276113	8.715	0.000	393743	40.41	39.97	1.1	Endosulfan sulfate
7.427	0.000	296413	8.295	-0.000	413083	40.73	40.20	1.3	4,4'-DDT
7.912	0.000	628619	8.935	-0.001	900958	194.94	198.14	1.6	Methoxychlor
8.453	0.000	311305	9.239	-0.000	423698	39.77	39.82	0.1	Endrin ketone
7.746	0.000	230881	8.448	0.000	312907	40.23	39.54	1.7	Endrin aldehyde
6.271	0.000	200151	7.056	-0.000	294106	20.31	20.15	0.8	trans-Chlordane
6.417	0.000	197892	7.216	-0.000	285904	20.02	20.02	0.0	cis-Chlordane
2.324	0.000	260716	2.500	-0.000	346254	19.22	18.08	6.2	Hexachlorobutadiene
4.182	0.000	237746	4.718	-0.000	364913	19.78	19.88	0.5	Hexachlorobenzene
3.828	0.000	357836	4.220	-0.000	567647	39.13	40.07	2.4	Tetrachloro-m-xylene
9.355	0.000	239428	10.466	-0.001	327134	38.76	38.45	0.8	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

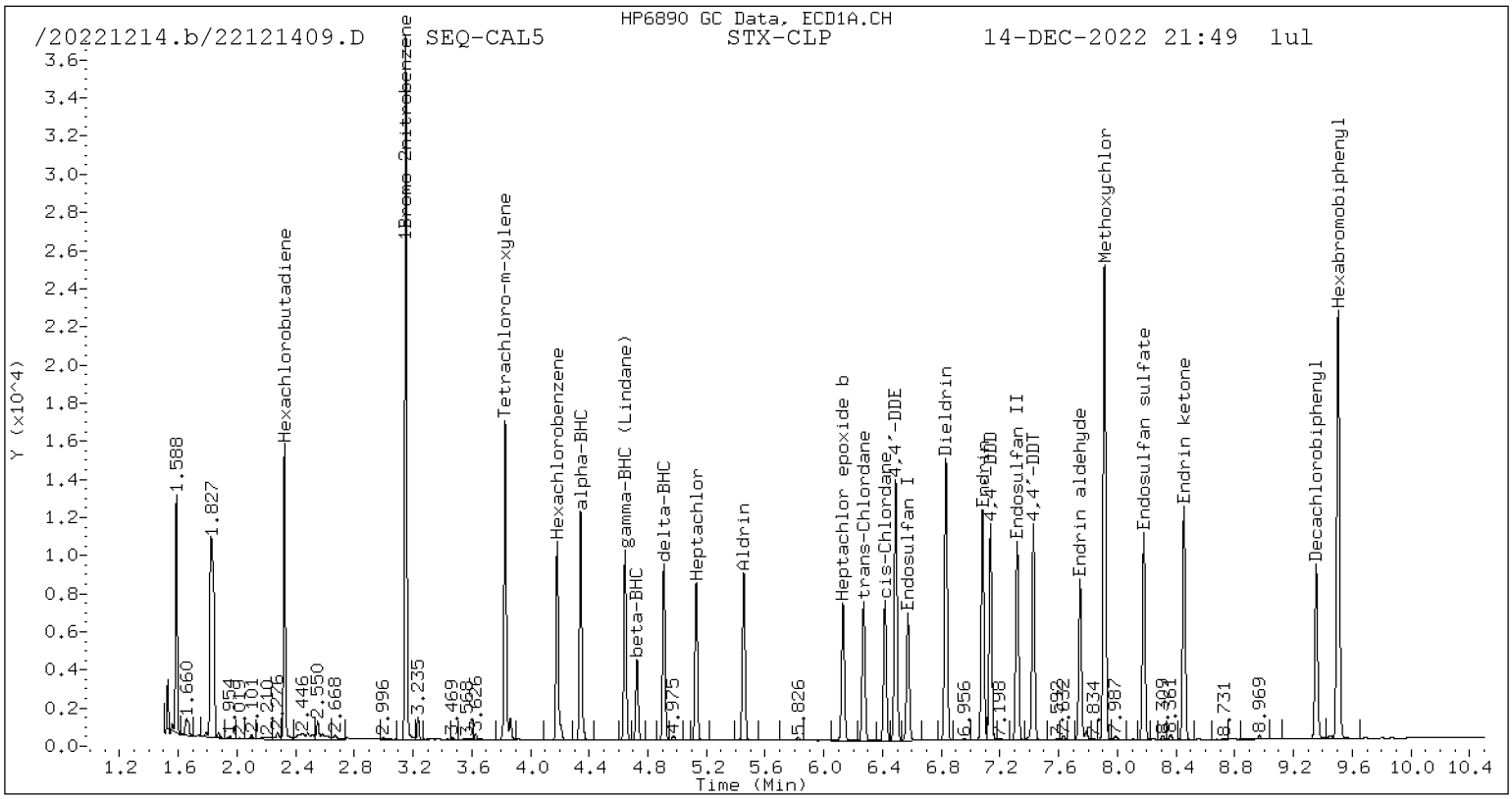
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	672426	672426	0.0
Hexabromobiphenyl	609723	609723	0.0

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1006482	1006482	0.0
Hexabromobiphenyl	769764	769764	0.0

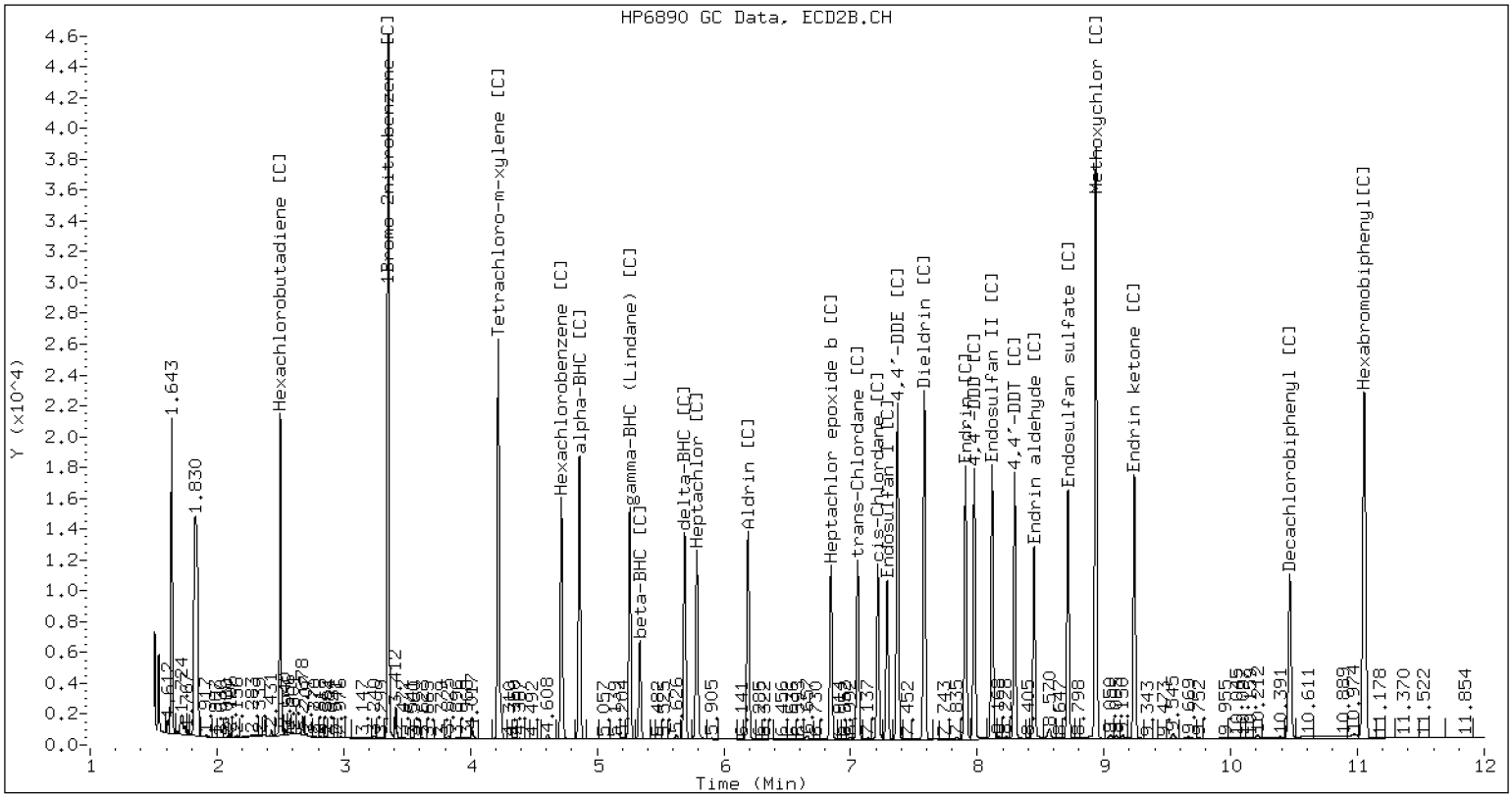
* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121409.D SEQ-CAL5 CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121409.D
Data file 2: /20221214.b/B20221214.b/22121409.D
Method: \20221214.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL5
Client ID:
Injection Date: 14-DEC-2022 21:49
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121410.D
Data file 2: /20221214.b/B20221214.b/22121410.D
Method: \20221214.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL6
Client ID:
Injection Date: 14-DEC-2022 22:07
Report Date: 12/16/2022 15:19
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
4.342	0.000	535902	4.860	-0.000	849533	39.69	40.30	1.5	alpha-BHC
4.726	0.000	198976	5.337	-0.000	311218	38.28	38.84	1.4	beta-BHC
4.910	0.000	440370	5.691	0.000	700464	39.91	40.34	1.1	delta-BHC
4.646	0.000	461905	5.258	0.000	718675	39.46	40.18	1.8	gamma-BHC (Lindane)
5.130	0.000	401672	5.787	0.000	639345	38.56	39.46	2.3	Heptachlor
5.454	0.000	458396	6.190	-0.000	720942	39.27	38.97	0.8	Aldrin
6.130	0.000	387273	6.846	0.000	586062	38.26	38.31	0.1	Heptachlor epoxide b
6.572	-0.000	354629	7.288	-0.001	519836	38.18	38.55	1.0	Endosulfan I
6.832	0.000	755708	7.582	-0.000	1126850	75.73	75.64	0.1	Dieldrin
6.489	0.000	698620	7.371	-0.000	1040947	75.40	76.19	1.0	4,4'-DDE
7.082	0.000	615481	7.907	-0.000	858461	74.19	74.98	1.1	Endrin
7.317	0.000	590923	8.117	-0.000	885035	79.12	75.41	4.8	Endosulfan II
7.136	0.000	565557	7.976	-0.000	842536	75.67	75.65	0.0	4,4'-DDD
8.179	-0.001	540557	8.715	0.000	782860	76.22	75.96	0.3	Endosulfan sulfate
7.427	0.000	577337	8.295	-0.000	820861	76.44	76.36	0.1	4,4'-DDT
7.912	-0.000	1204040	8.935	-0.001	1785262	359.75	375.30	4.2	Methoxychlor
8.453	-0.001	610387	9.239	-0.000	843646	75.13	75.79	0.9	Endrin ketone
7.746	-0.000	452325	8.448	0.000	622287	75.93	75.17	1.0	Endrin aldehyde
6.271	0.000	395598	7.056	-0.000	591899	38.48	38.80	0.8	trans-Chlordane
6.417	0.001	389712	7.215	-0.000	573103	37.80	38.40	1.6	cis-Chlordane
2.324	0.000	511265	2.500	-0.000	705320	36.14	35.24	2.5	Hexachlorobutadiene
4.183	0.001	472841	4.718	0.000	728846	37.72	37.99	0.7	Hexachlorobenzene
3.828	-0.000	714634	4.221	0.000	1124106	74.93	75.93	1.3	Tetrachloro-m-xylene
9.355	-0.000	468280	10.466	-0.001	645336	73.03	72.51	0.7	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

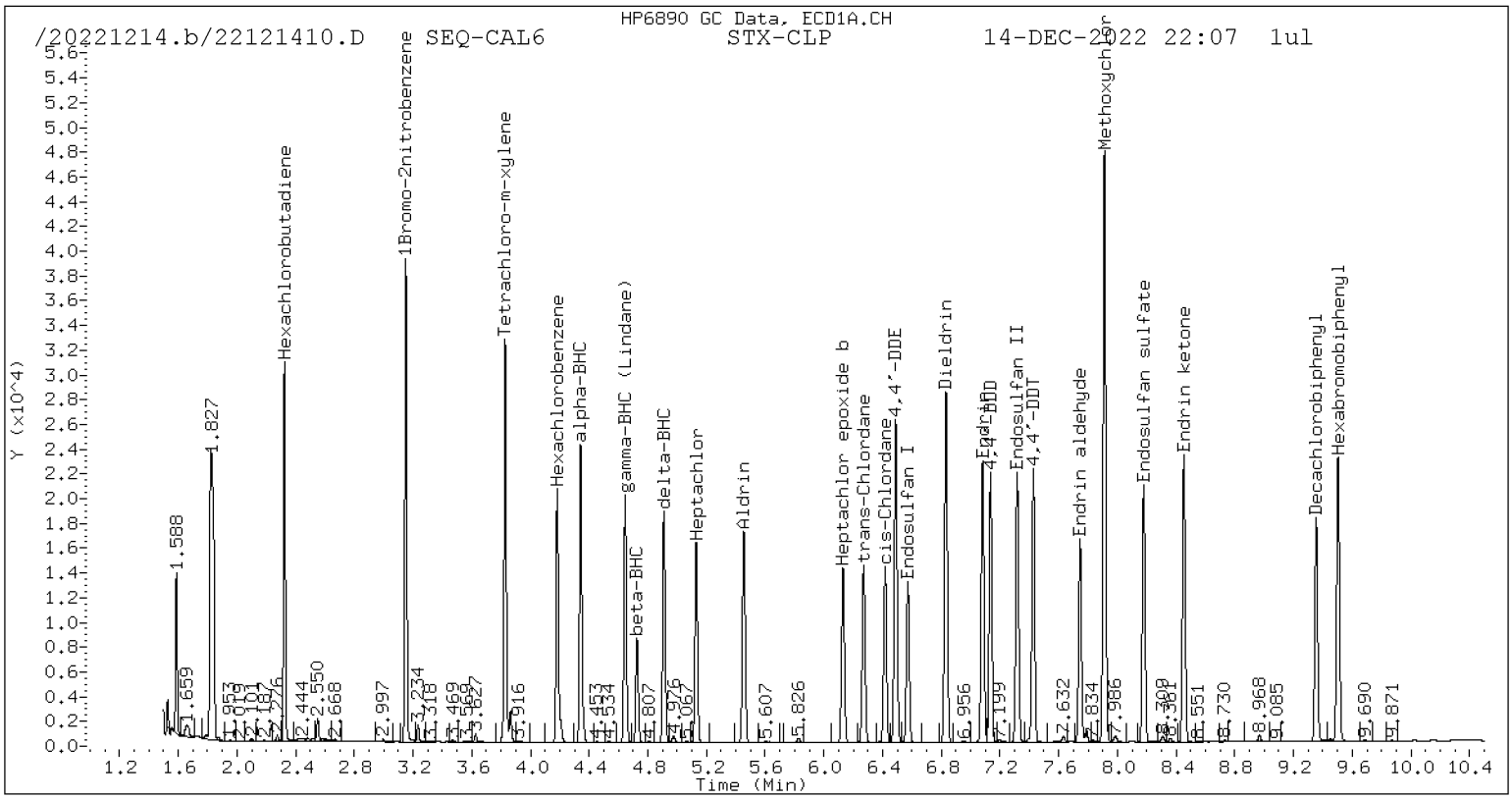
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	710650	701342	-1.3
Hexabromobiphenyl	641833	632821	-1.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1058848	1051766	-0.7
Hexabromobiphenyl	797125	805268	1.0

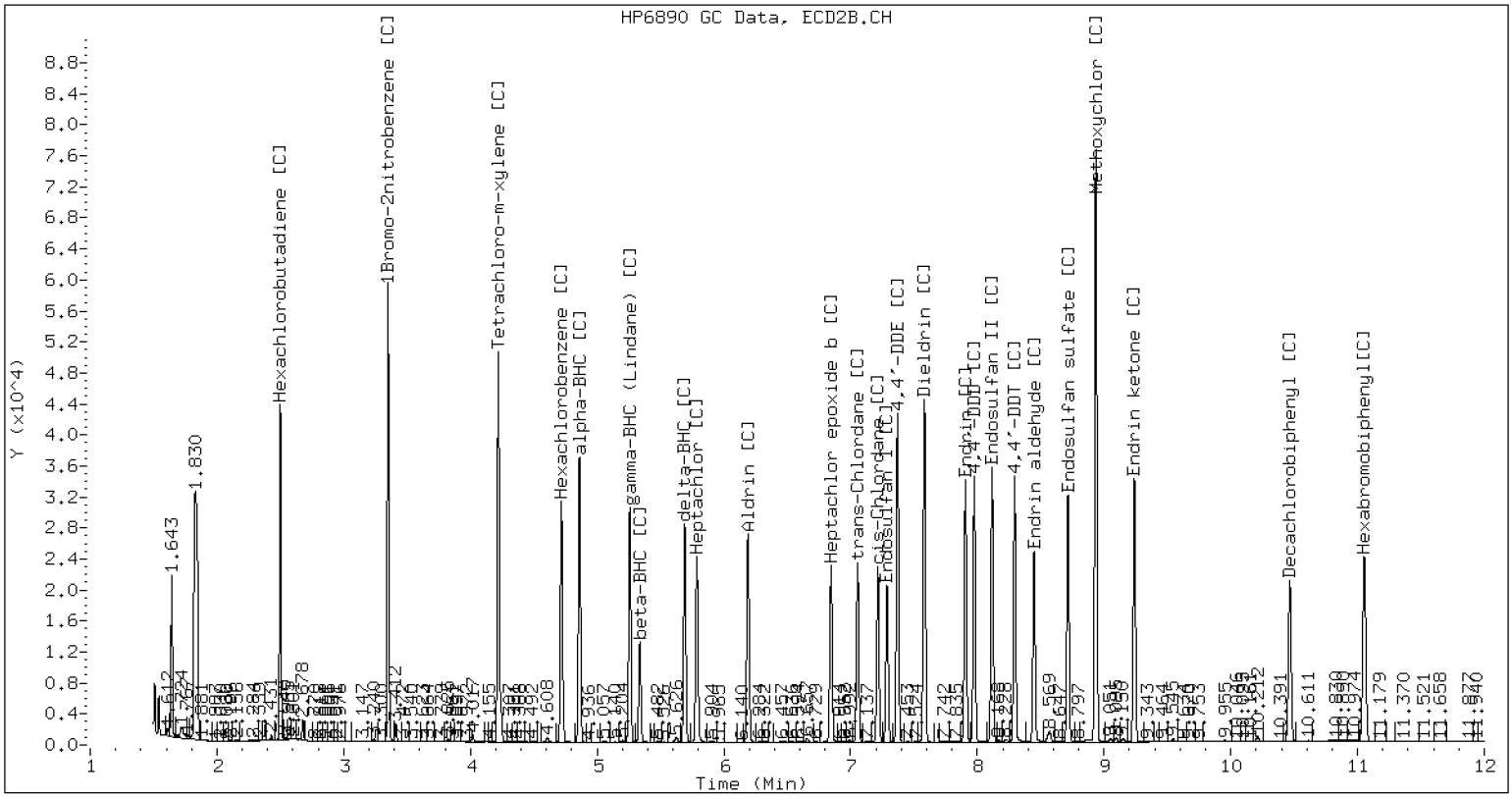
* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121410.D SEQ-CAL6 CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121410.D
Data file 2: /20221214.b/B20221214.b/22121410.D
Method: \20221214.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL6
Client ID:
Injection Date: 14-DEC-2022 22:07
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121411.D
Data file 2: /20221214.b/B20221214.b/22121411.D
Method: \20221214.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL7
Client ID:
Injection Date: 14-DEC-2022 22:25
Report Date: 12/16/2022 15:19
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
4.342	0.000	1012605	4.861	0.000	1623058	75.30	77.94	3.4	alpha-BHC
4.726	0.000	371916	5.337	0.000	586390	71.84	74.06	3.1	beta-BHC
4.910	0.000	837966	5.691	0.000	1343533	76.25	78.32	2.7	delta-BHC
4.645	-0.000	870454	5.258	0.000	1370551	74.66	77.55	3.8	gamma-BHC (Lindane)
5.130	0.000	743802	5.787	0.000	1188915	71.70	74.26	3.5	Heptachlor
5.454	0.000	841598	6.191	0.000	1331430	72.39	72.84	0.6	Aldrin
6.130	-0.000	709774	6.845	0.000	1087105	70.41	71.92	2.1	Heptachlor epoxide b
6.573	0.000	652702	7.289	0.000	969098	70.56	72.74	3.1	Endosulfan I
6.832	0.000	1390496	7.583	0.000	2118555	139.91	143.93	2.8	Dieldrin
6.490	0.001	1284777	7.371	0.000	1944530	139.23	144.06	3.4	4,4'-DDE
7.082	0.001	1132487	7.907	0.000	1618631	137.86	142.60	3.4	Endrin
7.317	0.000	1089554	8.117	0.000	1672946	147.33	143.79	2.4	Endosulfan II
7.135	0.000	1051958	7.976	0.000	1606815	142.14	145.53	2.4	4,4'-DDD
8.180	0.000	1013288	8.715	0.000	1496440	144.30	146.47	1.5	Endosulfan sulfate
7.428	0.001	1086138	8.295	0.000	1586078	145.23	148.84	2.5	4,4'-DDT
7.912	0.001	2325261	8.936	0.000	3541650	701.64	751.02	6.8	Methoxychlor
8.454	0.000	1146784	9.240	0.000	1623077	142.56	147.08	3.1	Endrin ketone
7.746	-0.000	846477	8.448	0.000	1178353	143.51	143.57	0.0	Endrin aldehyde
6.271	0.000	733514	7.056	0.000	1114685	71.64	73.95	3.2	trans-Chlordane
6.417	0.001	723886	7.216	0.000	1079255	70.50	73.19	3.7	cis-Chlordane
2.324	0.000	955982	2.501	0.000	1351745	67.86	68.35	0.7	Hexachlorobutadiene
4.182	0.000	879573	4.718	0.000	1355289	70.45	71.51	1.5	Hexachlorobenzene
3.828	0.000	1318381	4.220	0.000	2067539	138.79	141.35	1.8	Tetrachloro-m-xylene
9.356	0.000	878340	10.467	0.000	1231298	138.34	139.55	0.9	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

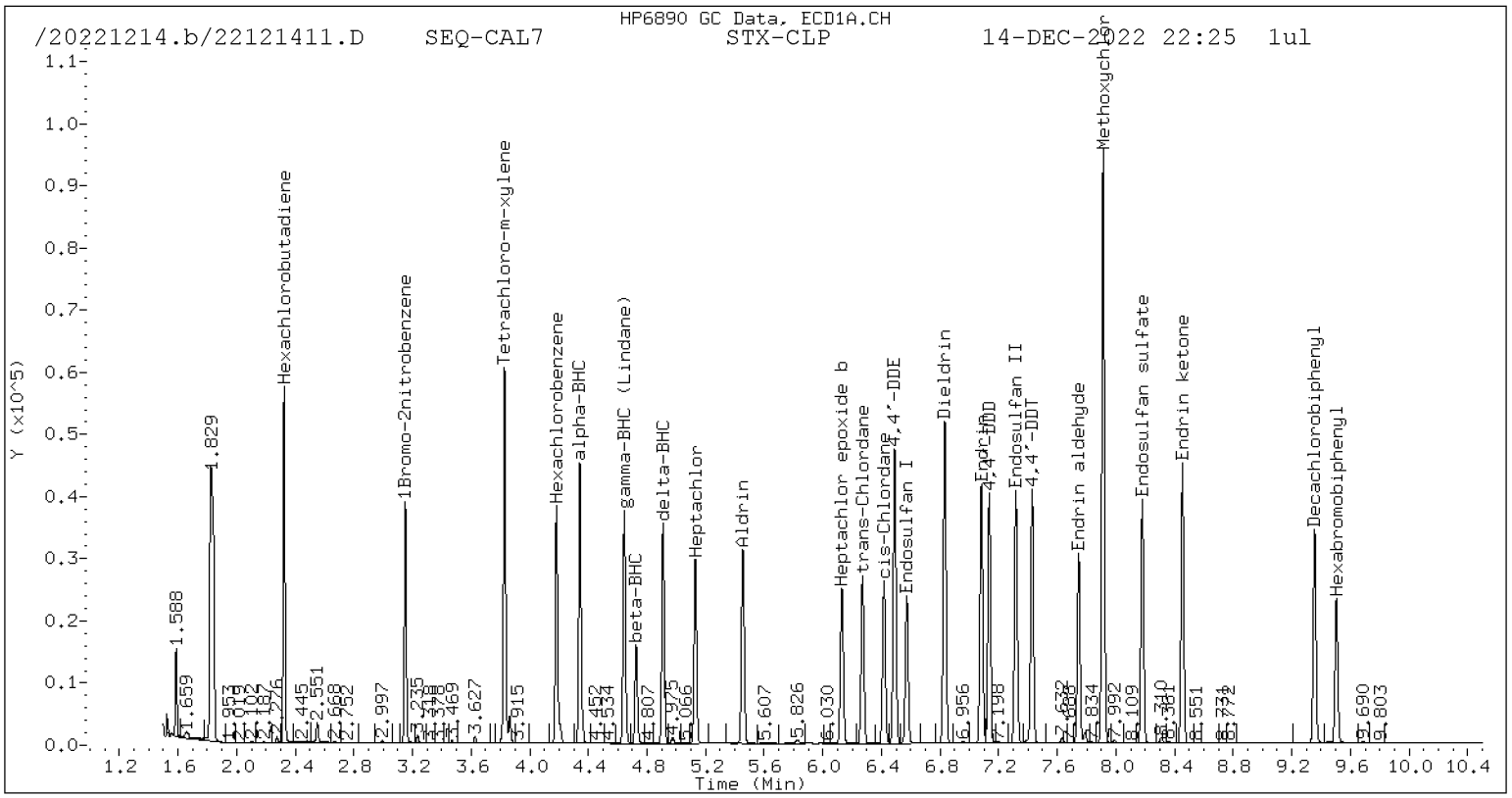
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	710650	698499	-1.7
Hexabromobiphenyl	641833	626605	-2.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1058848	1039154	-1.9
Hexabromobiphenyl	797125	798313	0.1

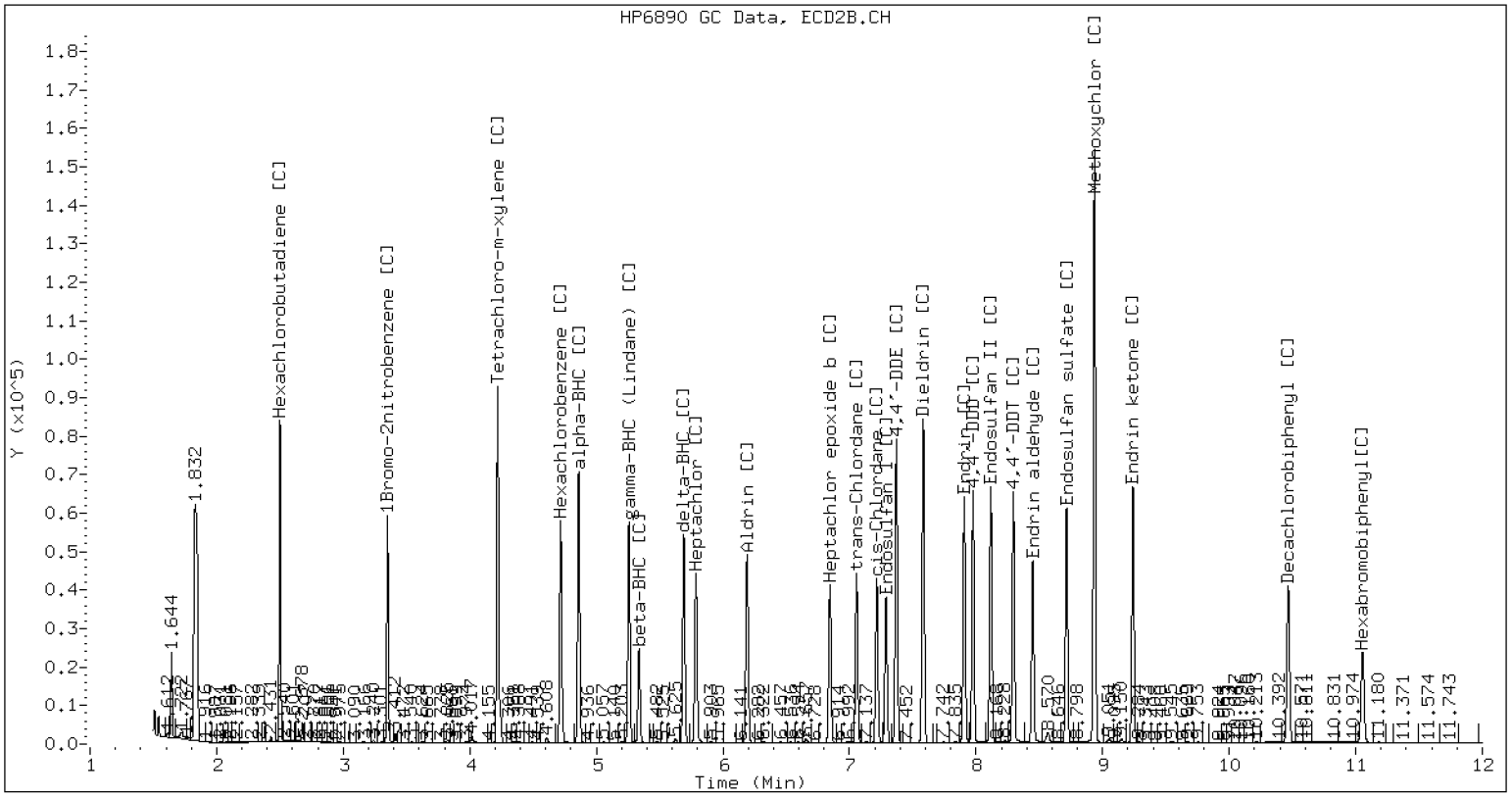
* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121411.D SEQ-CAL7 CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121411.D
Data file 2: /20221214.b/B20221214.b/22121411.D
Method: \20221214.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL7
Client ID:
Injection Date: 14-DEC-2022 22:25
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121412.D
Data file 2: /20221214.b/B20221214.b/22121412.D
Method: \20221214.b\PEST.m
Compound Sublist: WND.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL8
Client ID:
Injection Date: 14-DEC-2022 22:43
Report Date: 12/16/2022 15:19
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
6.014	-0.000	22184	6.741	-0.000	34211	2.89	2.85	1.2	Oxychlordane
6.106	-0.000	18661	7.036	-0.000	30817	2.94	3.14	6.5	2,4-DDE
6.397	-0.000	30616	7.154	-0.001	41466	3.05	2.82	7.5	trans-Nonachlor
6.681	0.000	16263	7.591	0.000	26177	2.88	3.12	7.9	2,4-DDD
6.956	-0.001	17569	7.913	-0.000	24398	2.88	2.82	2.1	2,4-DDT
7.112	-0.000	29417	7.975	-0.000	37972	3.01	2.72	9.9	cis-Nonachlor
8.082	-0.000	18819	9.223	-0.000	24312	3.09	3.00	3.1	Mirex
----			----			0.00	0.00	---	Tetrachloro-m-xylene
----			----			0.00	0.00	---	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

˜ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

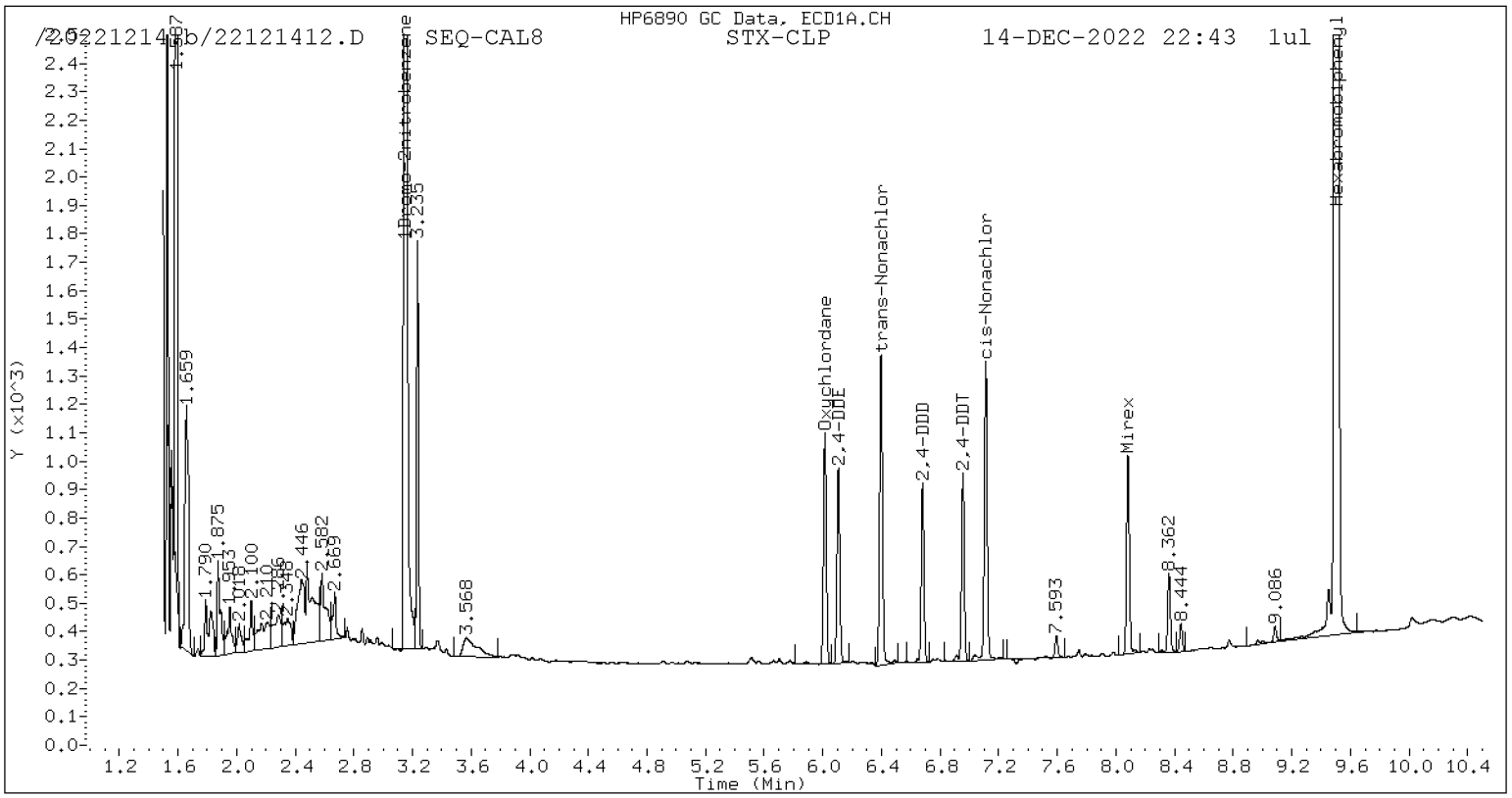
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	710650	713898	0.5
Hexabromobiphenyl	641833	646441	0.7

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1058848	1076864	1.7
Hexabromobiphenyl	797125	820275	2.9

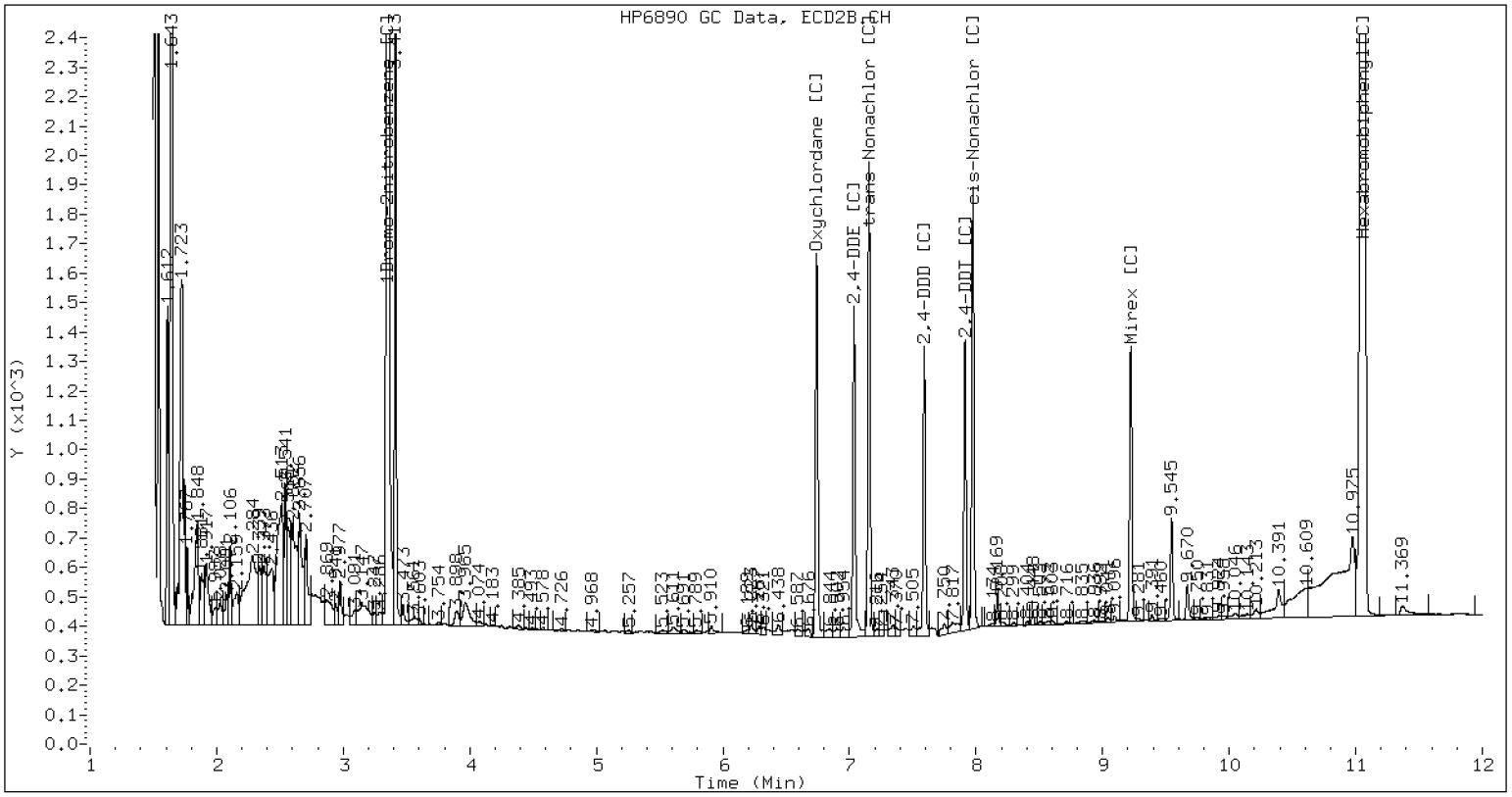
* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121412.D SEQ-CAL8 CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121412.D
Data file 2: /20221214.b/B20221214.b/22121412.D
Method: \20221214.b\PEST.m
Compound Sublist: WND.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL8
Client ID:
Injection Date: 14-DEC-2022 22:43
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121413.D
Data file 2: /20221214.b/B20221214.b/22121413.D
Method: \20221214.b\PEST.m
Compound Sublist: WND.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL9
Client ID:
Injection Date: 14-DEC-2022 23:01
Report Date: 12/16/2022 15:19
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
6.015	0.000	39121	6.741	-0.000	61505	5.34	5.41	1.3	Oxychlordane
6.106	0.000	33487	7.036	-0.000	53206	5.54	5.72	3.1	2,4-DDE
6.398	0.000	51858	7.154	-0.001	72836	5.42	5.20	4.1	trans-Nonachlor
6.681	0.000	29307	7.590	-0.000	44506	5.45	5.55	1.9	2,4-DDD
6.957	-0.000	31530	7.914	0.000	45986	5.43	5.57	2.6	2,4-DDT
7.112	-0.000	50912	7.975	0.000	70898	5.46	5.32	2.6	cis-Nonachlor
8.082	-0.000	32004	9.223	-0.000	45650	5.52	5.89	6.6	Mirex
----			----			0.00	0.00	---	Tetrachloro-m-xylene
----			----			0.00	0.00	---	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

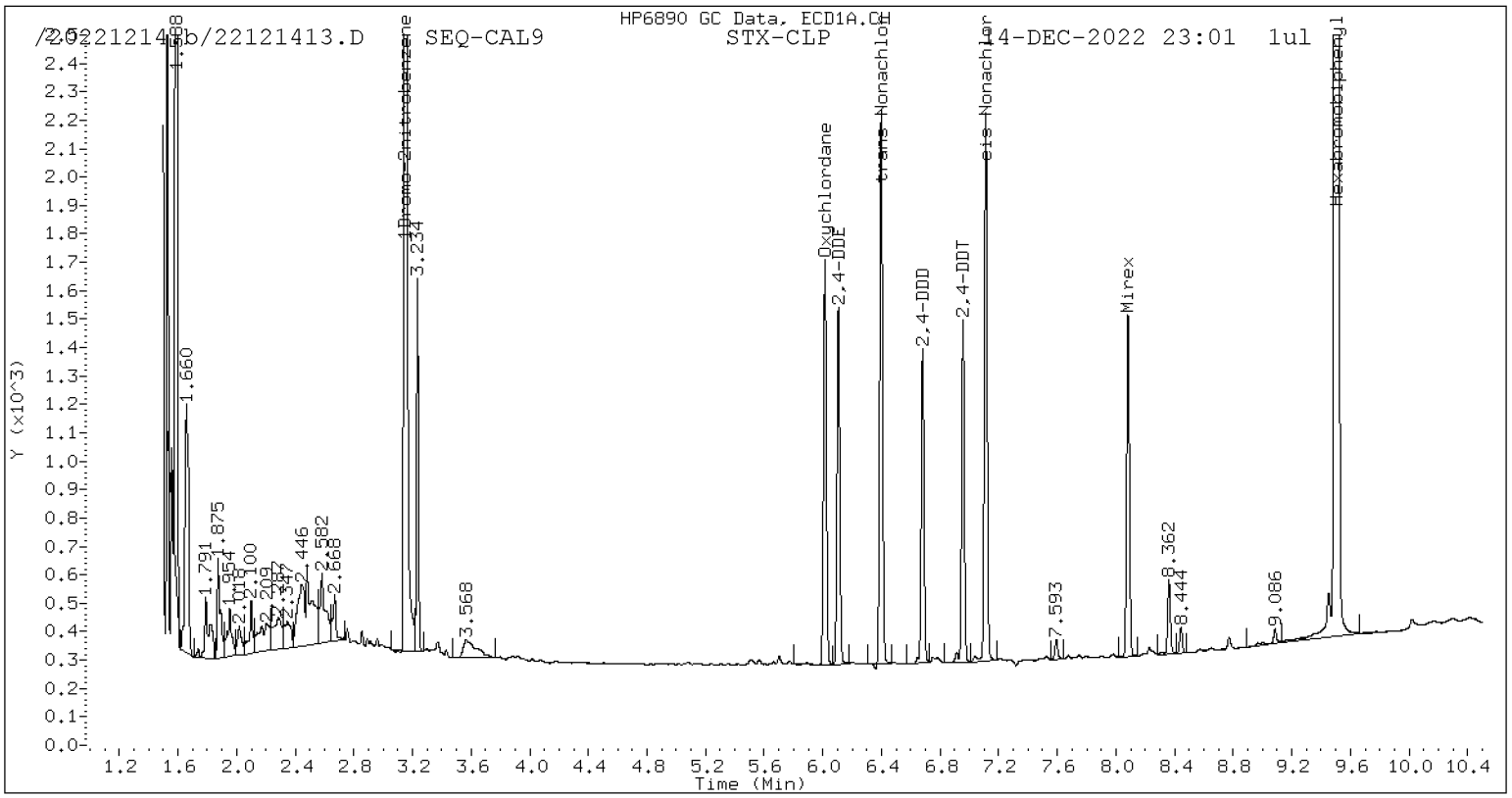
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	710650	672507	-5.4
Hexabromobiphenyl	641833	615627	-4.1

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1058848	1020334	-3.6
Hexabromobiphenyl	797125	782734	-1.8

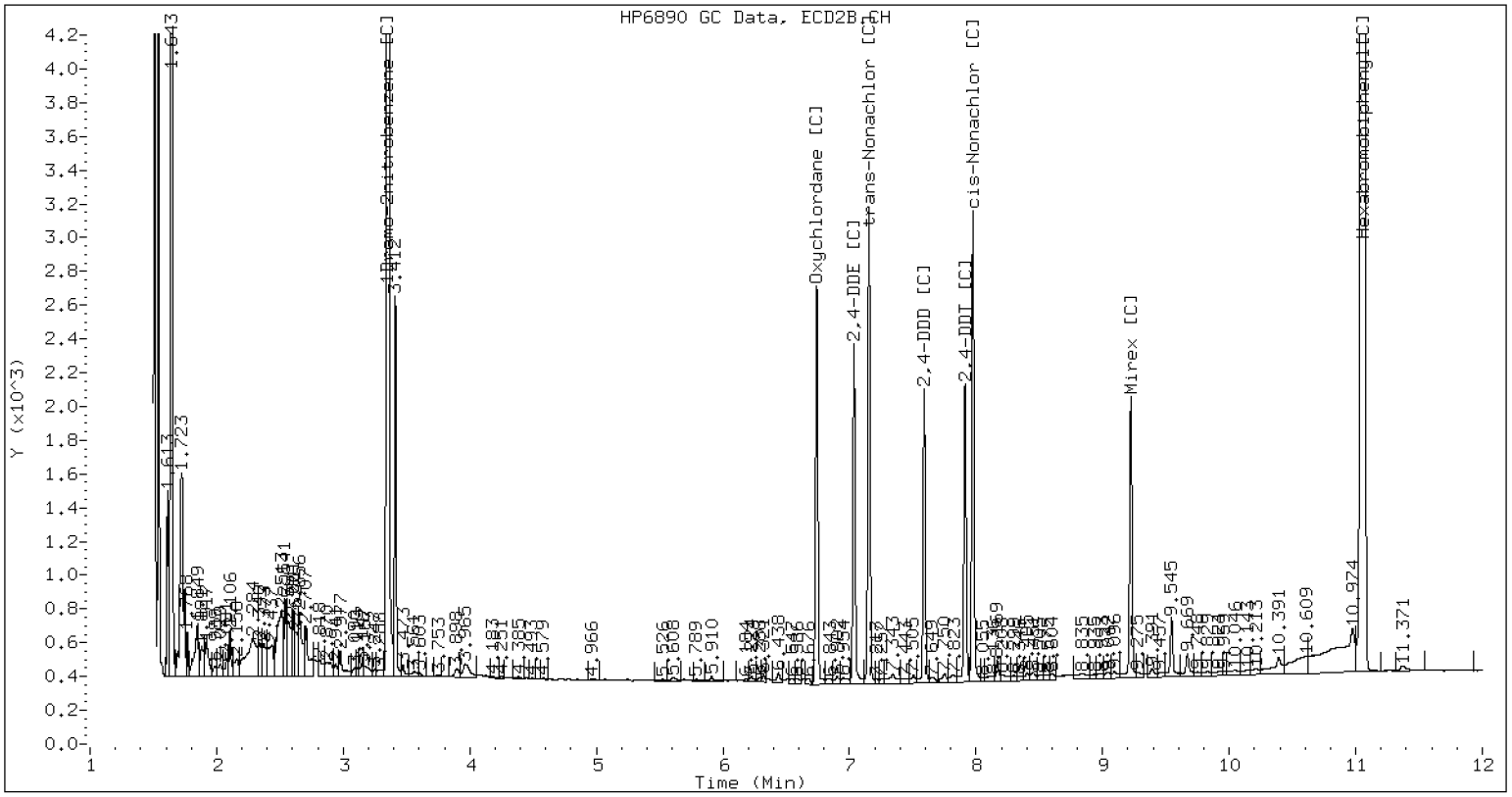
* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121413.D SEQ-CAL9 CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121413.D
Data file 2: /20221214.b/B20221214.b/22121413.D
Method: \20221214.b\PEST.m
Compound Sublist: WND.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL9
Client ID:
Injection Date: 14-DEC-2022 23:01
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121414.D
Data file 2: /20221214.b/B20221214.b/22121414.D
Method: \20221214.b\PEST.m
Compound Sublist: WND.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CALA
Client ID:
Injection Date: 14-DEC-2022 23:19
Report Date: 12/16/2022 15:19
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
6.014	-0.000	82473	6.741	-0.001	127500	10.63	10.63	0.0	Oxychlordane
6.106	-0.000	69109	7.035	-0.001	108440	10.79	11.04	2.3	2,4-DDE
6.398	0.000	108386	7.154	-0.001	157712	10.68	10.60	0.7	trans-Nonachlor
6.681	0.000	60517	7.590	-0.000	91420	10.62	10.74	1.2	2,4-DDD
6.956	-0.001	65300	7.913	0.000	91498	10.61	10.44	1.6	2,4-DDT
7.111	-0.001	104247	7.975	-0.000	146224	10.55	10.34	2.0	cis-Nonachlor
8.082	-0.000	65614	9.222	-0.000	84337	10.67	10.25	4.0	Mirex
----			----			0.00	0.00	---	Tetrachloro-m-xylene
----			----			0.00	0.00	---	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

˜ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

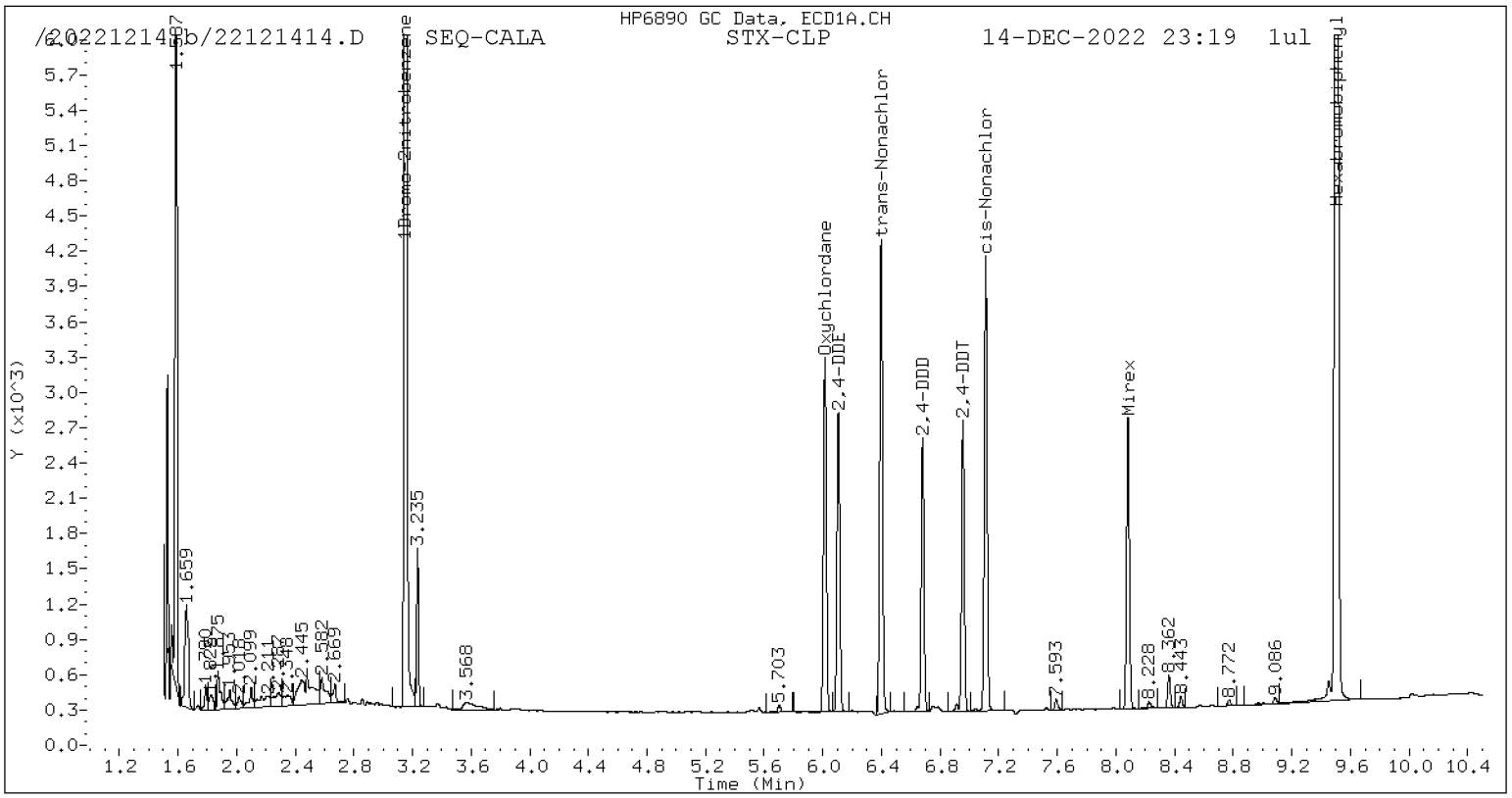
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	710650	712122	0.2
Hexabromobiphenyl	641833	652595	1.7

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1058848	1077341	1.7
Hexabromobiphenyl	797125	831365	4.3

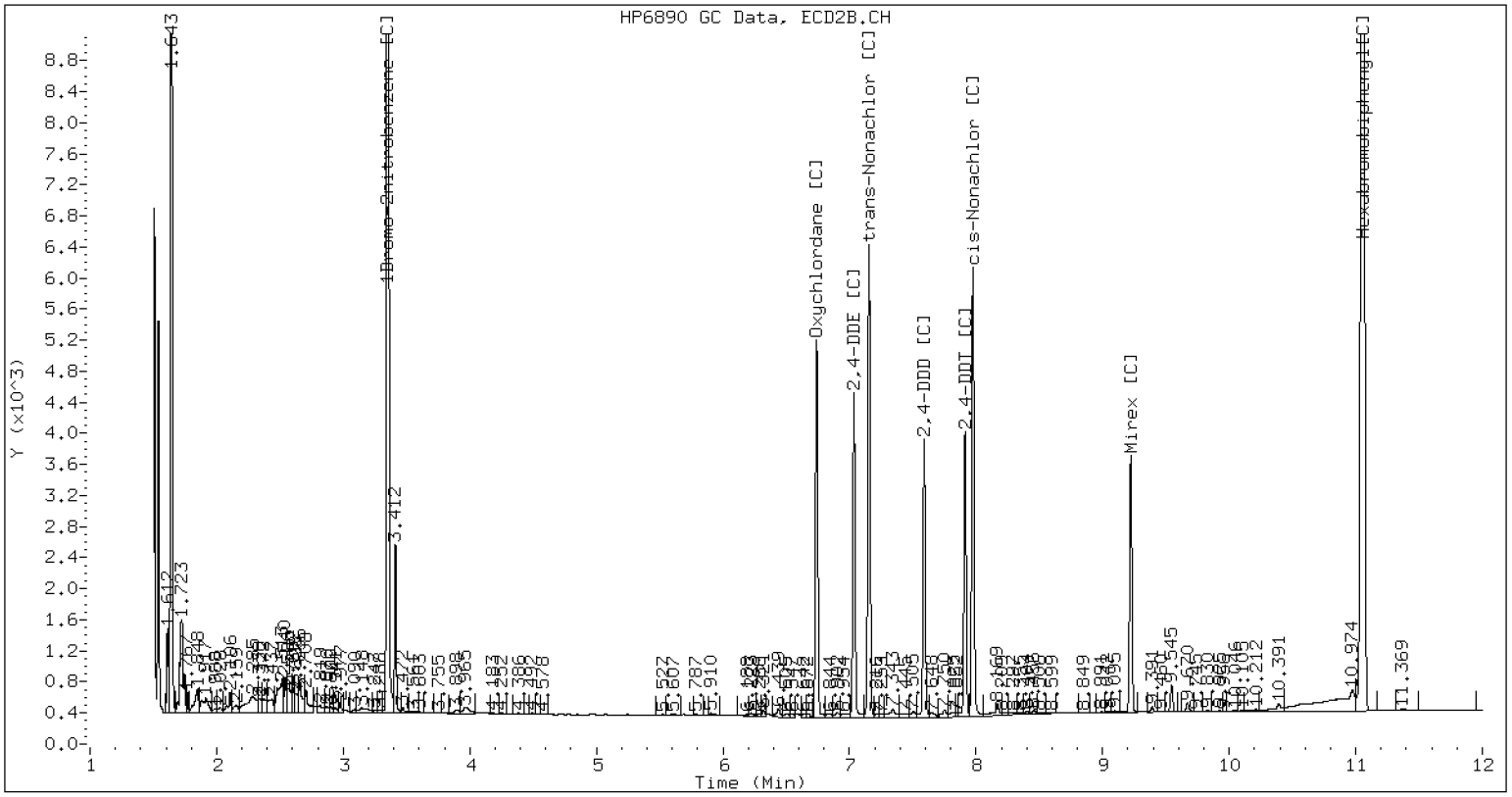
* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121414.D SEQ-CALA CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121414.D
Data file 2: /20221214.b/B20221214.b/22121414.D
Method: \20221214.b\PEST.m
Compound Sublist: WND.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CALA
Client ID:
Injection Date: 14-DEC-2022 23:19
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121415.D
Data file 2: /20221214.b/B20221214.b/22121415.D
Method: \20221214.b\PEST.m
Compound Sublist: WND.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CALB
Client ID:
Injection Date: 14-DEC-2022 23:36
Report Date: 12/16/2022 15:19
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
6.015	0.001	154379	6.741	-0.000	238017	20.80	20.28	2.5	Oxychlordane
6.106	-0.000	128483	7.036	-0.000	195807	20.97	20.37	2.9	2,4-DDE
6.398	0.000	200622	7.155	-0.000	289952	20.66	20.28	1.9	trans-Nonachlor
6.681	0.000	113972	7.591	0.000	165245	20.90	20.21	3.4	2,4-DDD
6.956	-0.001	122412	7.913	0.000	169814	20.78	20.17	3.0	2,4-DDT
7.112	-0.000	194165	7.975	-0.000	274910	20.54	20.23	1.5	cis-Nonachlor
8.082	-0.000	119271	9.223	0.000	158702	20.28	20.08	1.0	Mirex
----			----			0.00	0.00	---	Tetrachloro-m-xylene
----			----			0.00	0.00	---	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

˜ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

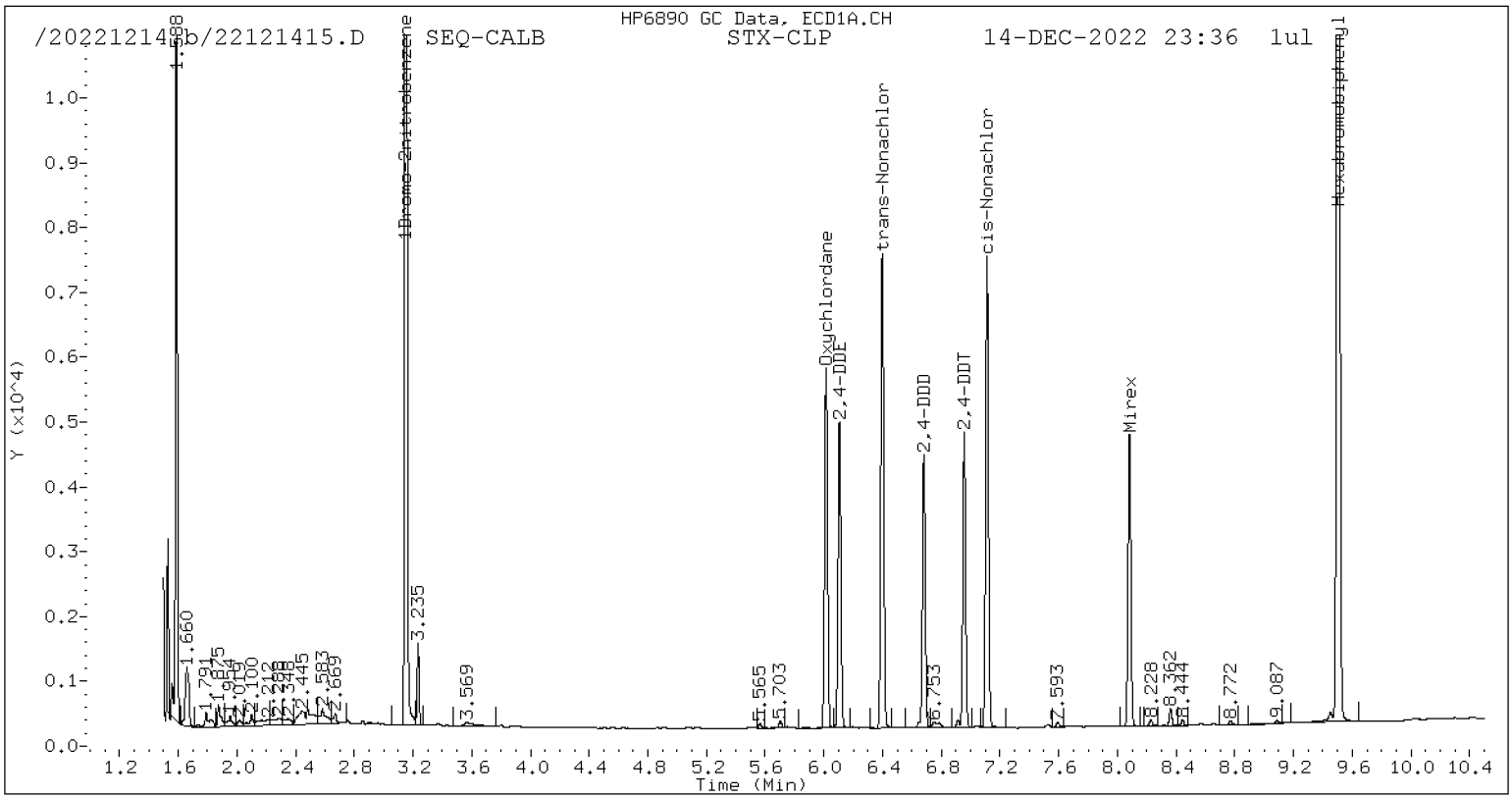
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	710650	693450	-2.4
Hexabromobiphenyl	641833	624334	-2.7

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1058848	1053959	-0.5
Hexabromobiphenyl	797125	798882	0.2

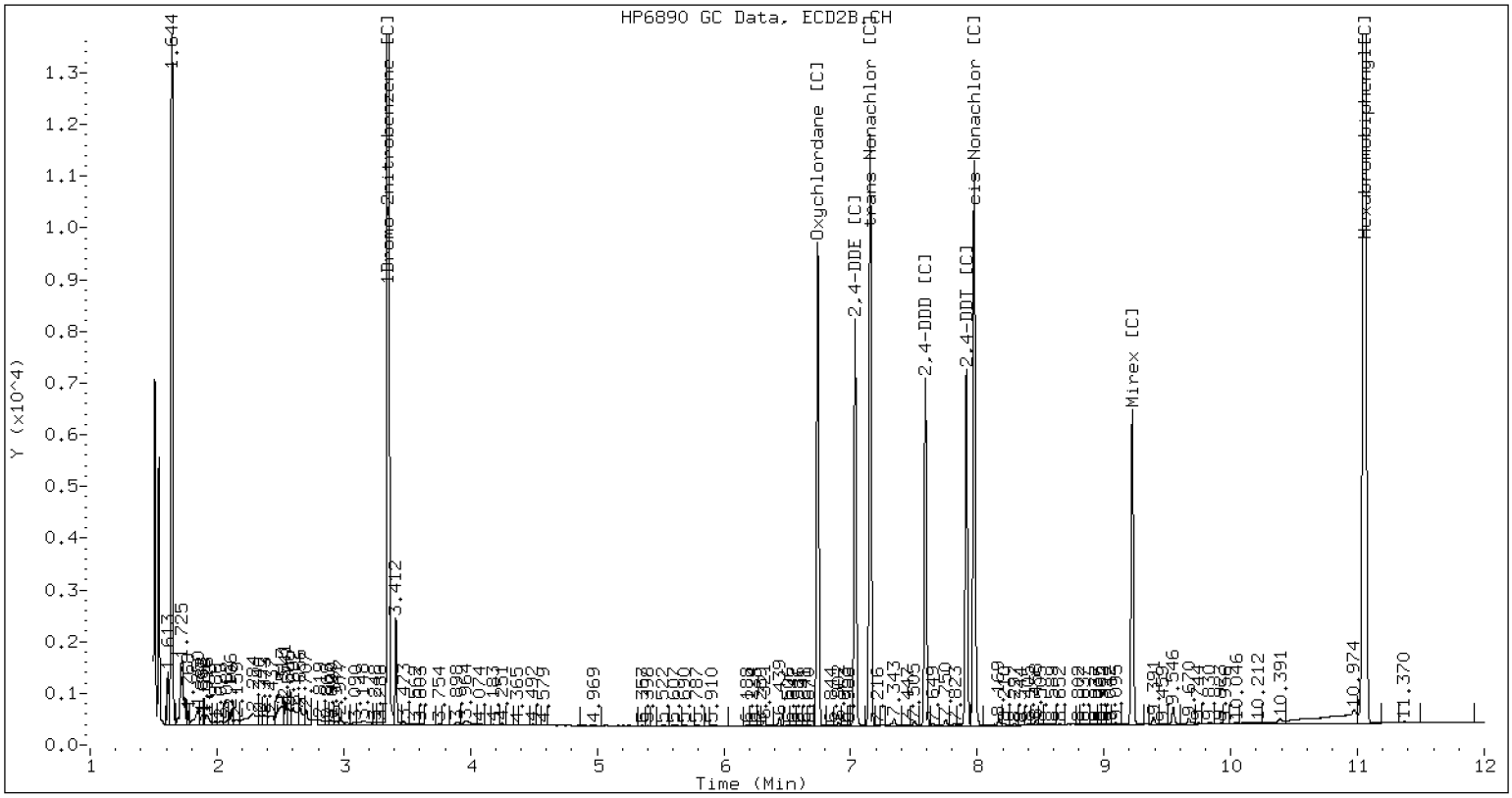
* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121415.D SEQ-CALB CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121415.D
Data file 2: /20221214.b/B20221214.b/22121415.D
Method: \20221214.b\PEST.m
Compound Sublist: WND.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CALB
Client ID:
Injection Date: 14-DEC-2022 23:36
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121416.D
Data file 2: /20221214.b/B20221214.b/22121416.D
Method: \20221214.b\PEST.m
Compound Sublist: WND.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CALC
Client ID:
Injection Date: 14-DEC-2022 23:54
Report Date: 12/16/2022 15:19
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
6.014	0.000	292499	6.741	-0.000	460731	40.08	40.26	0.4	Oxychlordane
6.106	0.000	242066	7.036	-0.000	372996	40.18	39.80	0.9	2,4-DDE
6.397	0.000	383329	7.154	-0.001	567971	40.16	40.45	0.7	trans-Nonachlor
6.681	0.000	216474	7.590	-0.000	320311	40.39	39.88	1.3	2,4-DDD
6.957	0.000	233738	7.913	-0.000	332906	40.36	40.25	0.3	2,4-DDT
7.112	0.000	373705	7.975	-0.000	538334	40.21	40.33	0.3	cis-Nonachlor
8.082	0.000	229604	9.222	-0.000	299228	39.71	38.54	3.0	Mirex
3.800	-0.028	1151	----			0.13	0.00	---	Tetrachloro-m-xylene
----			----			0.00	0.00	---	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

˜ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

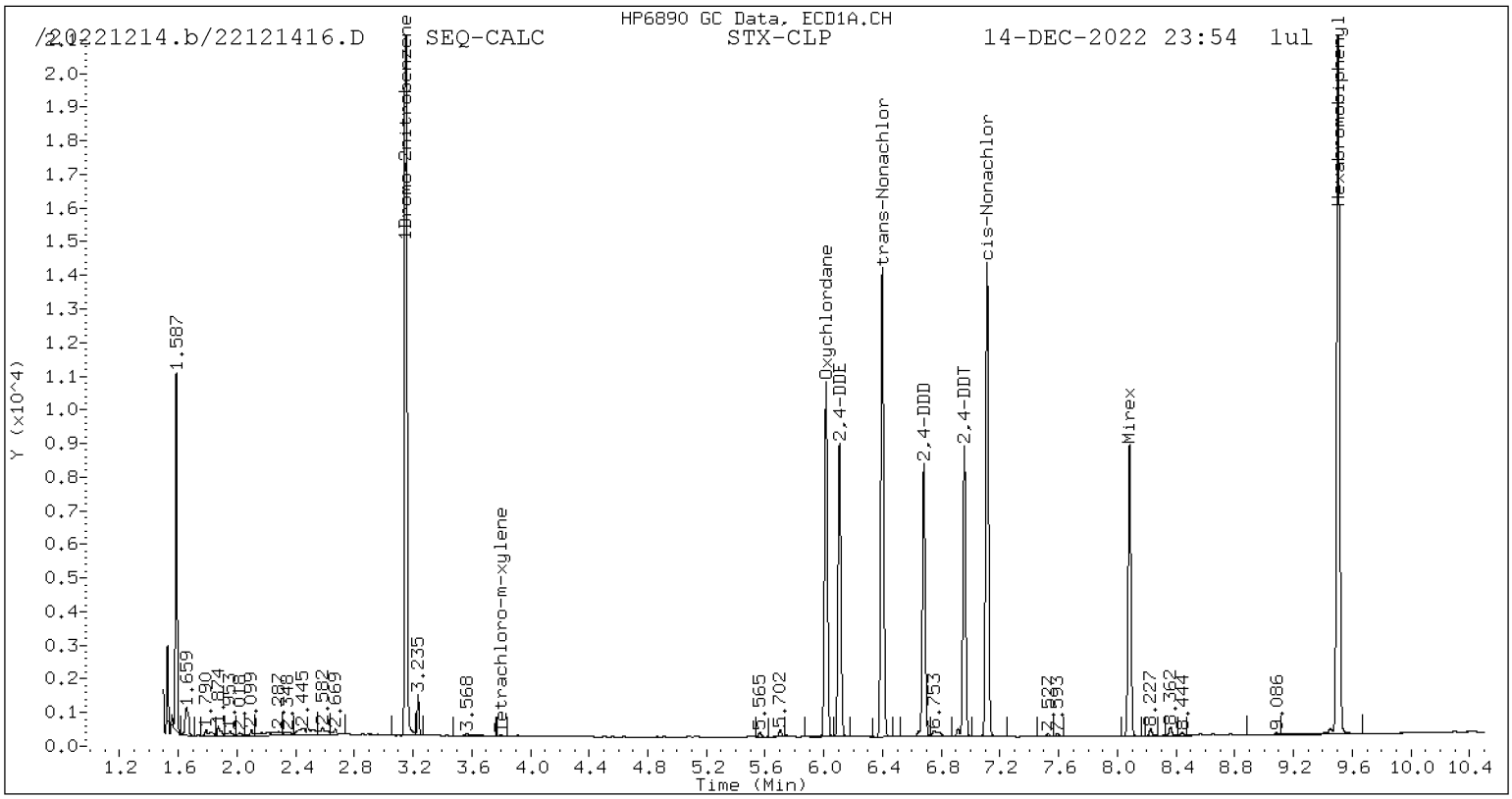
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	710650	674573	-5.1
Hexabromobiphenyl	641833	613787	-4.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1058848	1027697	-2.9
Hexabromobiphenyl	797125	784673	-1.6

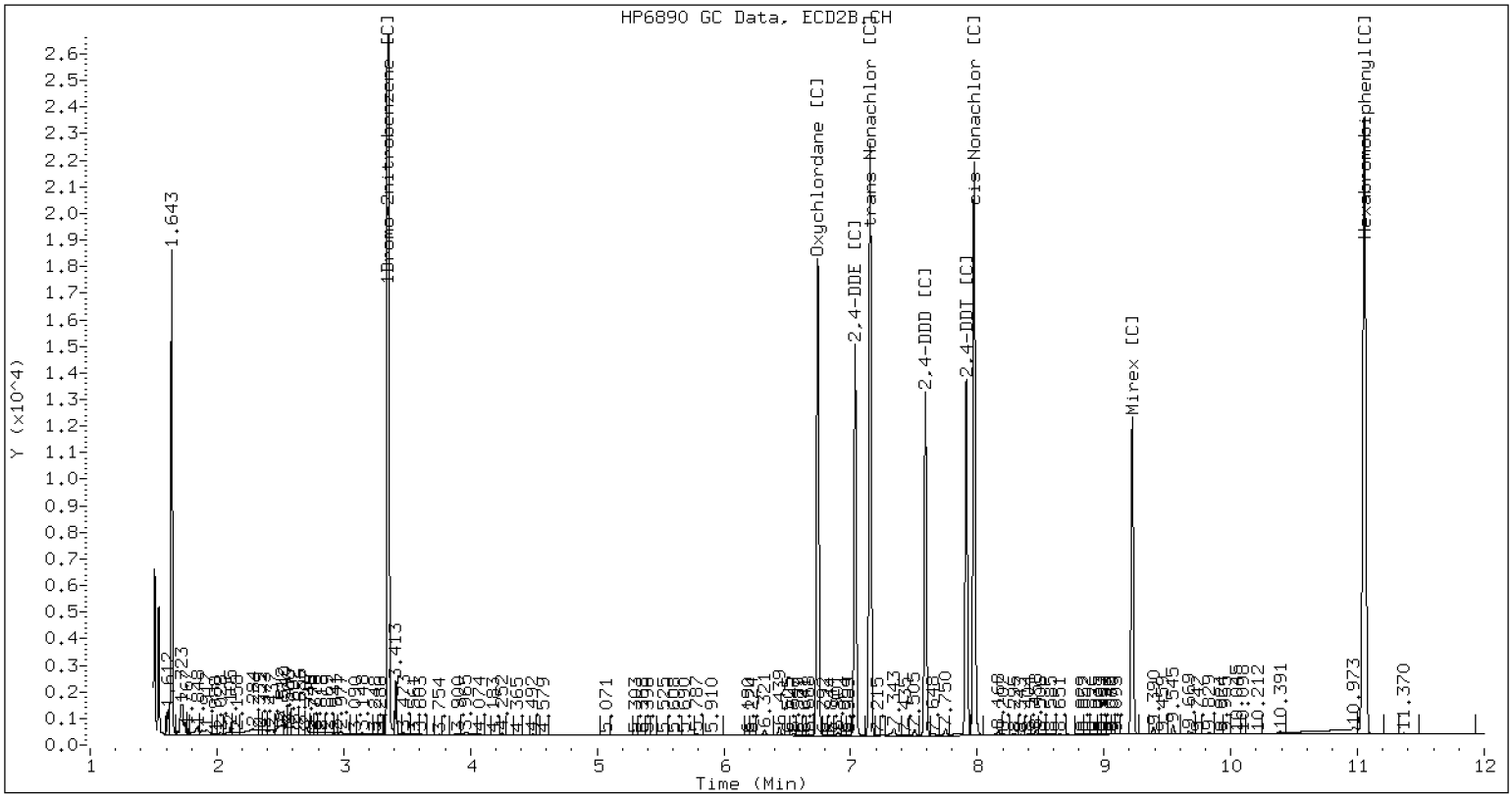
* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121416.D SEQ-CALC CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121416.D
Data file 2: /20221214.b/B20221214.b/22121416.D
Method: \20221214.b\PEST.m
Compound Sublist: WND.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CALC
Client ID:
Injection Date: 14-DEC-2022 23:54
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121417.D
Data file 2: /20221214.b/B20221214.b/22121417.D
Method: \20221214.b\PEST.m
Compound Sublist: WND.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CALD
Client ID:
Injection Date: 15-DEC-2022 00:12
Report Date: 12/16/2022 15:19
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
6.014	-0.000	544254	6.741	-0.000	856443	75.85	75.73	0.2	Oxychlordane
6.106	-0.000	438313	7.036	-0.000	677072	73.99	73.11	1.2	2,4-DDE
6.397	-0.000	704675	7.155	0.000	1067899	75.09	76.94	2.4	trans-Nonachlor
6.681	0.000	393654	7.591	0.000	594311	74.70	74.86	0.2	2,4-DDD
6.956	-0.001	430636	7.914	0.000	618740	75.63	75.68	0.1	2,4-DDT
7.112	-0.000	688257	7.975	0.000	1018624	75.31	77.19	2.5	cis-Nonachlor
8.082	-0.001	426177	9.223	0.000	573947	74.97	74.78	0.2	Mirex
3.800	-0.028	2109	----			0.23	0.00	---	Tetrachloro-m-xylene
----			----			0.00	0.00	---	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

˜ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

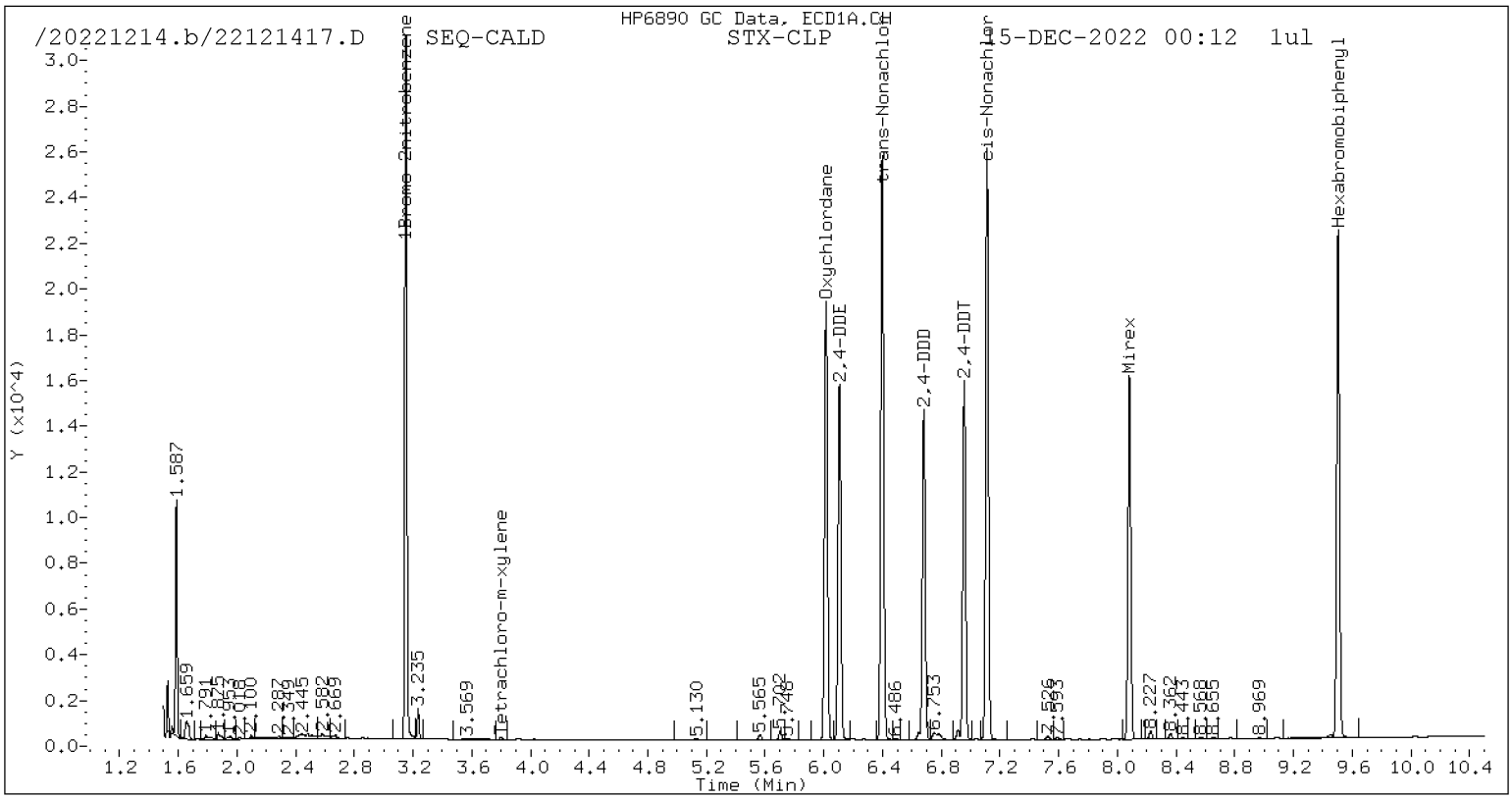
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	710650	664375	-6.5
Hexabromobiphenyl	641833	603504	-6.0

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1058848	1015544	-4.1
Hexabromobiphenyl	797125	775630	-2.7

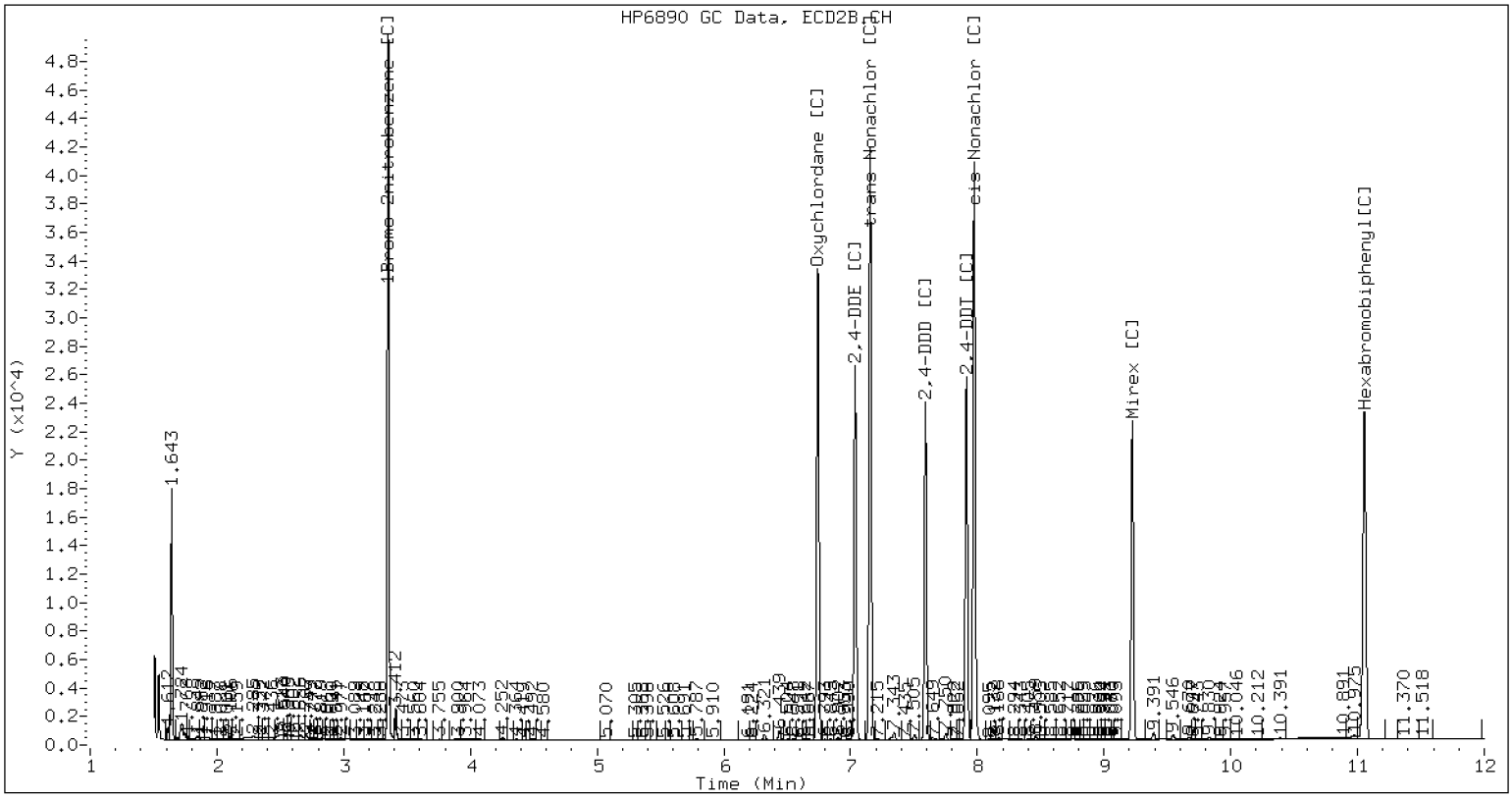
* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121417.D SEQ-CALD CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121417.D
Data file 2: /20221214.b/B20221214.b/22121417.D
Method: \20221214.b\PEST.m
Compound Sublist: WND.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CALD
Client ID:
Injection Date: 15-DEC-2022 00:12
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121418.D
Data file 2: /20221214.b/B20221214.b/22121418.D
Method: \20221214.b\PEST.m
Compound Sublist: WND.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CALE
Client ID:
Injection Date: 15-DEC-2022 00:30
Report Date: 12/16/2022 15:19
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
6.014	0.000	1020828	6.741	0.000	1630330	140.48	142.04	1.1	Oxychlordane
6.106	-0.000	801828	7.036	0.000	1240933	133.65	132.03	1.2	2,4-DDE
6.397	0.000	1327091	7.155	0.000	2047915	139.63	146.04	4.5	trans-Nonachlor
6.680	-0.000	733651	7.591	0.000	1118552	137.46	139.45	1.4	2,4-DDD
6.956	-0.001	794021	7.913	0.000	1163676	137.69	140.88	2.3	2,4-DDT
7.112	-0.000	1301975	7.975	0.000	1956215	140.68	146.73	4.2	cis-Nonachlor
8.082	-0.001	815059	9.223	0.000	1108848	141.57	143.01	1.0	Mirex
3.800	-0.028	3997	----			0.43	0.00	---	Tetrachloro-m-xylene
----			10.471	0.004	3393	0.00	0.39	---	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

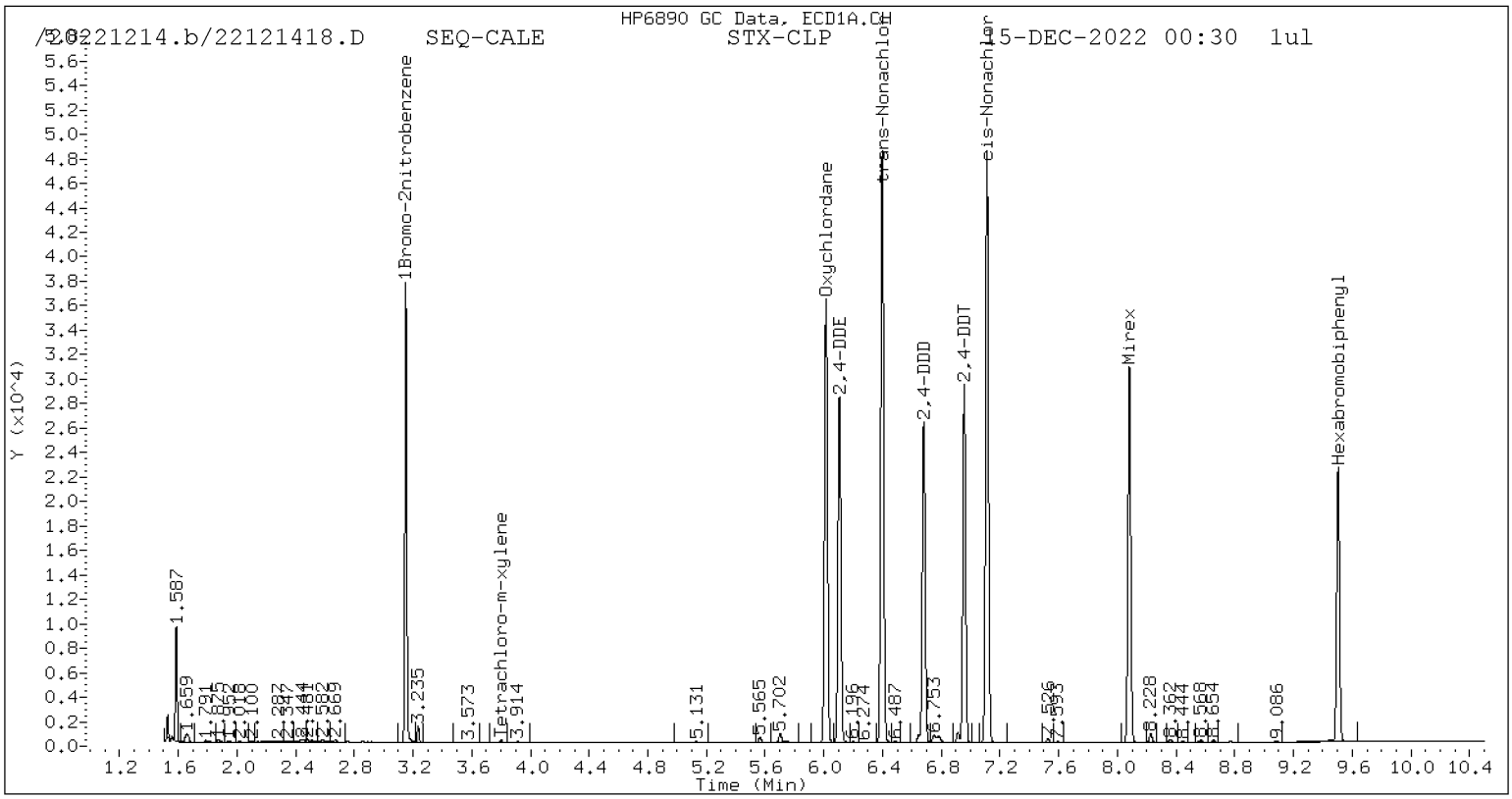
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	710650	675789	-4.9
Hexabromobiphenyl	641833	611199	-4.8

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1058848	1030648	-2.7
Hexabromobiphenyl	797125	783631	-1.7

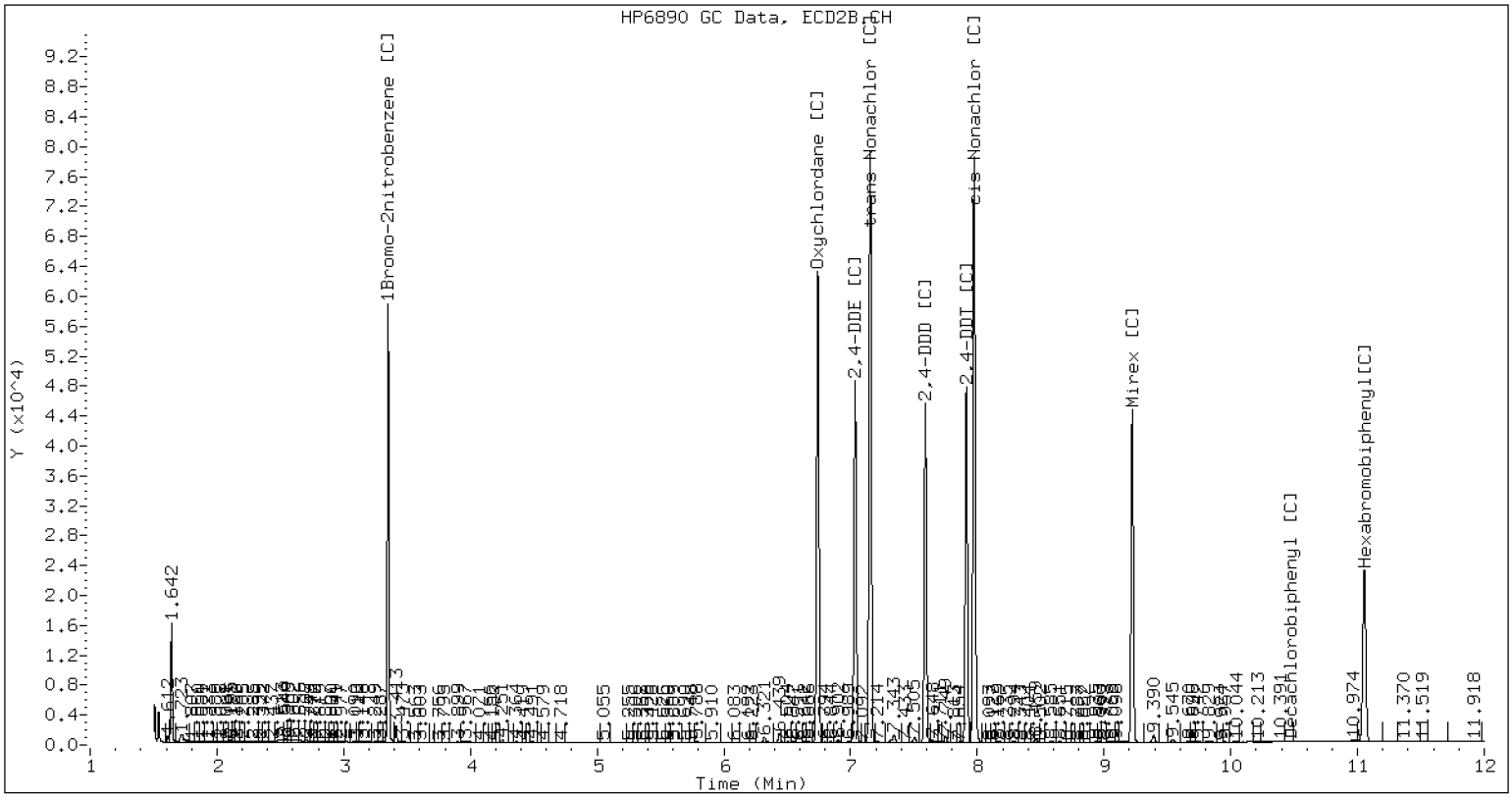
* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121418.D SEQ-CALE CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121418.D
Data file 2: /20221214.b/B20221214.b/22121418.D
Method: \20221214.b\PEST.m
Compound Sublist: WND.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CALE
Client ID:
Injection Date: 15-DEC-2022 00:30
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121419.D
Data file 2: /20221214.b/B20221214.b/22121419.D
Method: \20221214.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-SCV1
Client ID:
Injection Date: 15-DEC-2022 00:48
Report Date: 12/16/2022 15:19
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
4.342	0.000	643235	4.860	-0.000	1047709	49.66	51.22	3.1	alpha-BHC
4.726	-0.000	242617	5.337	0.000	386388	48.66	49.69	2.1	beta-BHC
4.909	0.000	554797	5.692	0.001	897343	52.41	53.26	1.6	delta-BHC
4.646	0.001	573983	5.258	0.000	915596	51.11	52.75	3.1	gamma-BHC (Lindane)
5.130	0.000	495138	5.788	0.001	804002	49.55	51.13	3.1	Heptachlor
5.454	0.000	526615	6.191	0.000	842909	47.03	46.95	0.2	Aldrin
6.130	0.000	469481	6.846	0.000	724932	48.36	48.83	1.0	Heptachlor epoxide b
6.573	0.000	423102	7.289	-0.000	632890	47.49	48.37	1.8	Endosulfan I
6.832	0.000	478299	7.583	0.000	724854	49.97	50.14	0.3	Dieldrin
6.489	0.000	448741	7.371	0.000	670346	50.49	50.56	0.1	4,4'-DDE
7.082	0.001	396143	7.907	0.000	551004	50.36	50.73	0.7	Endrin
7.318	0.001	350431	8.118	0.001	537104	49.49	48.24	2.6	Endosulfan II
7.136	0.001	355688	7.977	0.001	525927	50.19	49.78	0.8	4,4'-DDD
8.180	0.000	347949	8.716	0.001	502438	51.75	51.39	0.7	Endosulfan sulfate
7.428	0.001	368644	8.295	-0.000	524685	51.48	51.45	0.1	4,4'-DDT
7.913	0.001	174306	8.935	-0.001	238791	54.93	52.91	3.7	Methoxychlor
8.454	0.000	394474	9.240	-0.000	540431	51.21	51.18	0.1	Endrin ketone
7.746	0.001	316262	8.448	0.000	449269	56.00	57.20	2.1	Endrin aldehyde
6.271	0.000	490842	7.056	0.000	748350	49.78	50.55	1.5	trans-Chlordane
6.417	0.001	469513	7.216	0.000	700871	47.47	48.39	1.9	cis-Chlordane
----			2.512	0.011	11364	0.00	0.59	---	Hexachlorobutadiene
----			4.719	0.001	634	0.00	0.03	---	Hexachlorobenzene
----			4.220	-0.000	1724	0.00	0.12	---	Tetrachloro-m-xylene
----			10.468	0.001	643	0.00	0.08	---	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

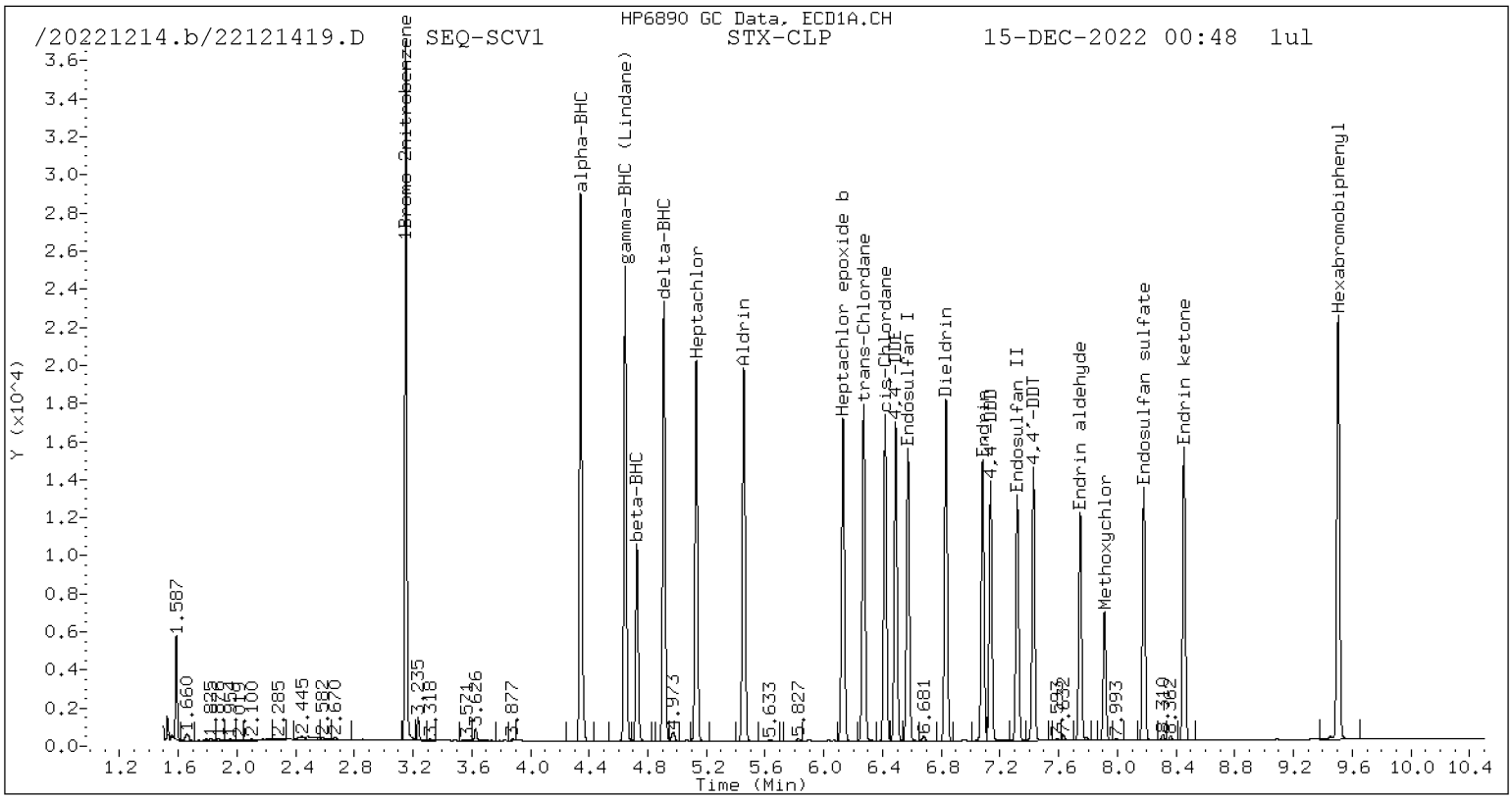
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	710650	672755	-5.3
Hexabromobiphenyl	641833	599983	-6.5

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1058848	1020655	-3.6
Hexabromobiphenyl	797125	763949	-4.2

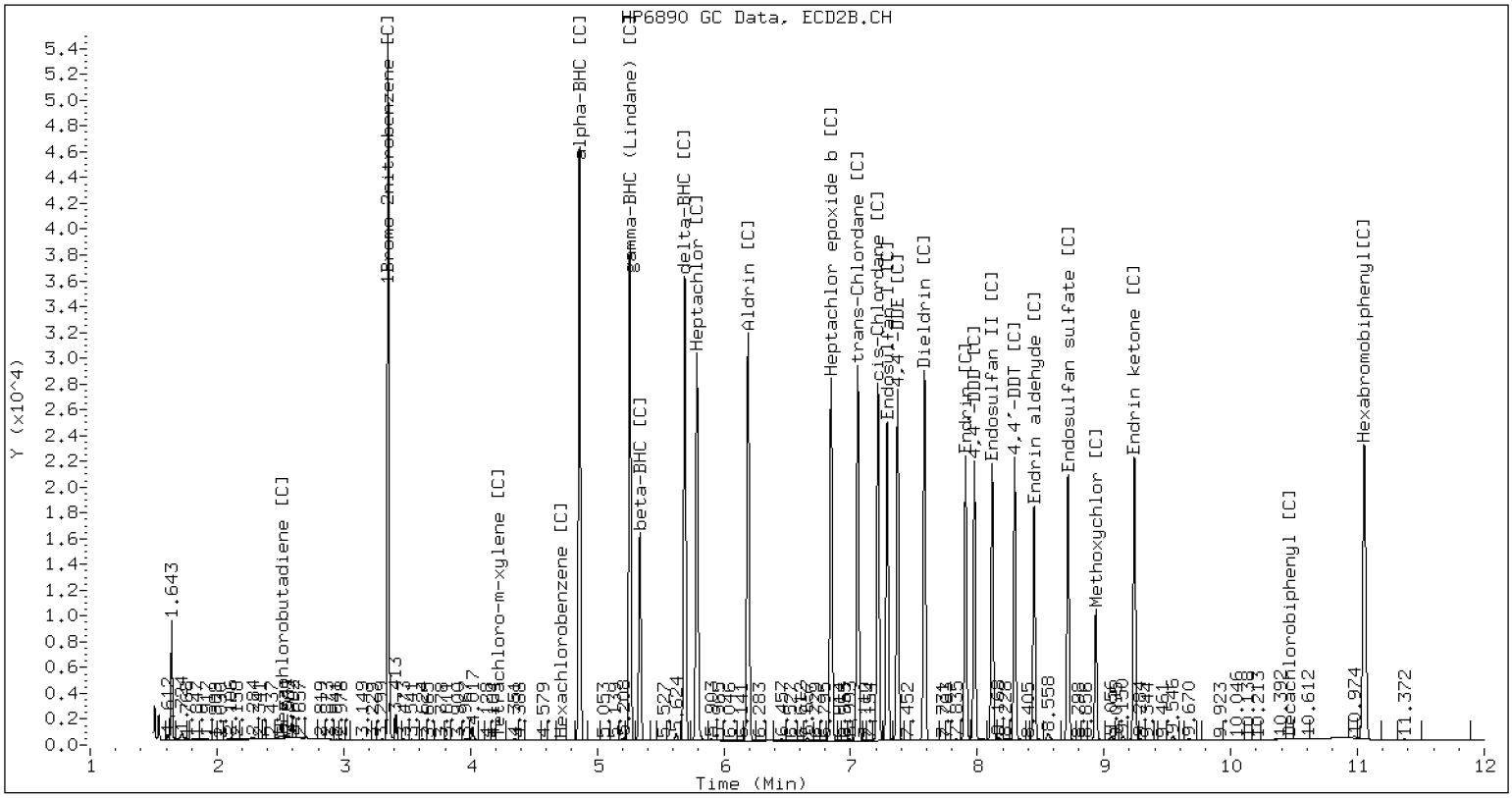
* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121419.D SEQ-SCV1 CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121419.D
Data file 2: /20221214.b/B20221214.b/22121419.D
Method: \20221214.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-SCV1
Client ID:
Injection Date: 15-DEC-2022 00:48
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121420.D
Data file 2: /20221214.b/B20221214.b/22121420.D
Method: \20221214.b\PEST.m
Compound Sublist: WND.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-SCV2
Client ID:
Injection Date: 15-DEC-2022 01:06
Report Date: 12/16/2022 15:20
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
6.014	-0.000	374516	6.741	0.000	591348	51.08	50.07	2.0	Oxychlordane
6.106	-0.000	261097	7.036	-0.000	403824	43.13	41.76	3.2	2,4-DDE
6.397	-0.000	444133	7.155	-0.000	657777	46.31	45.91	0.9	trans-Nonachlor
6.681	0.000	222534	7.591	0.000	334706	41.32	40.84	1.2	2,4-DDD
6.956	-0.001	262722	7.914	0.000	382016	45.15	45.26	0.2	2,4-DDT
7.111	-0.001	455894	7.975	0.000	655718	48.82	48.13	1.4	cis-Nonachlor
8.081	-0.001	256593	9.223	0.000	343173	44.17	43.31	2.0	Mirex
----			----			0.00	0.00	---	Tetrachloro-m-xylene
----			----			0.00	0.00	---	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

˜ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

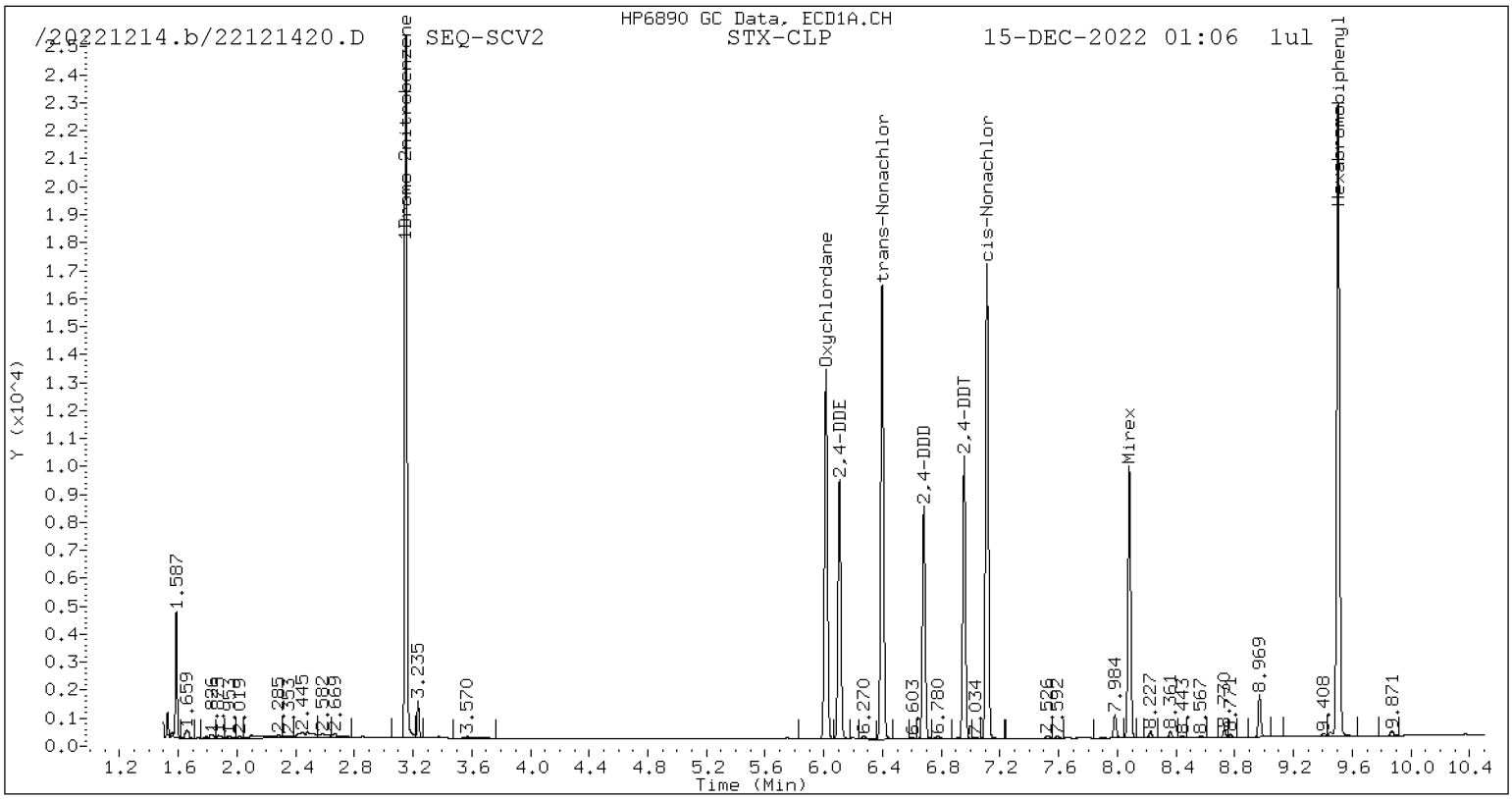
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	710650	687052	-3.3
Hexabromobiphenyl	641833	616730	-3.9

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1058848	1060438	0.2
Hexabromobiphenyl	797125	800740	0.5

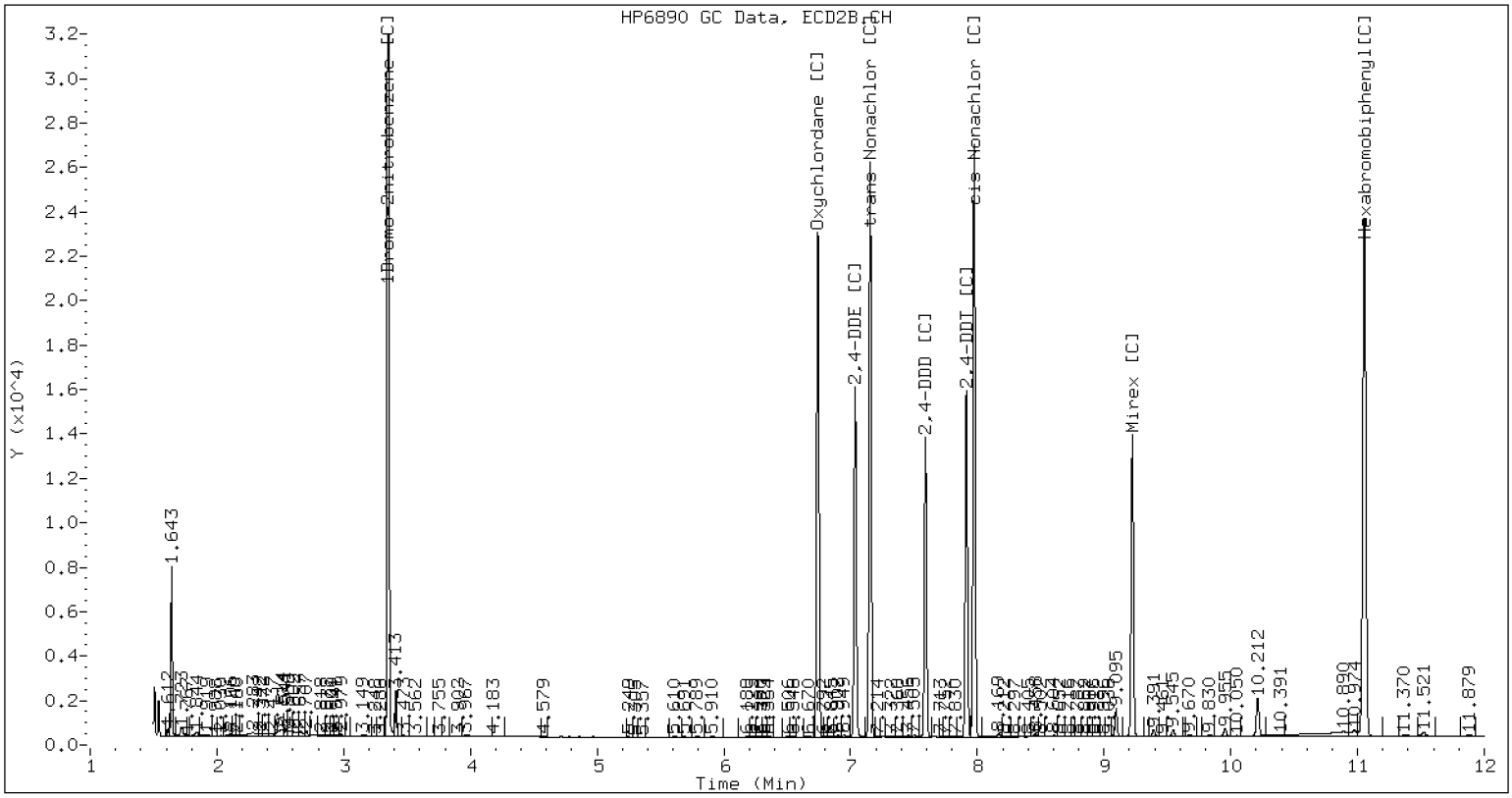
* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121420.D SEQ-SCV2 CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121420.D
Data file 2: /20221214.b/B20221214.b/22121420.D
Method: \20221214.b\PEST.m
Compound Sublist: WND.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-SCV2
Client ID:
Injection Date: 15-DEC-2022 01:06
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121421.D
Data file 2: /20221214.b/B20221214.b/22121421.D
Method: \20221214.b\PEST.m
Compound Sublist: TECHCHLOR.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL1A
Client ID:
Injection Date: 15-DEC-2022 01:24
Report Date: 12/16/2022 15:20
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
----			4.215	-0.006	361	0.00	0.02	---	Tetrachloro-m-xylene
----			----			0.00	0.00	---	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	710650	601512	-15.4
Hexabromobiphenyl	641833	690103	7.5

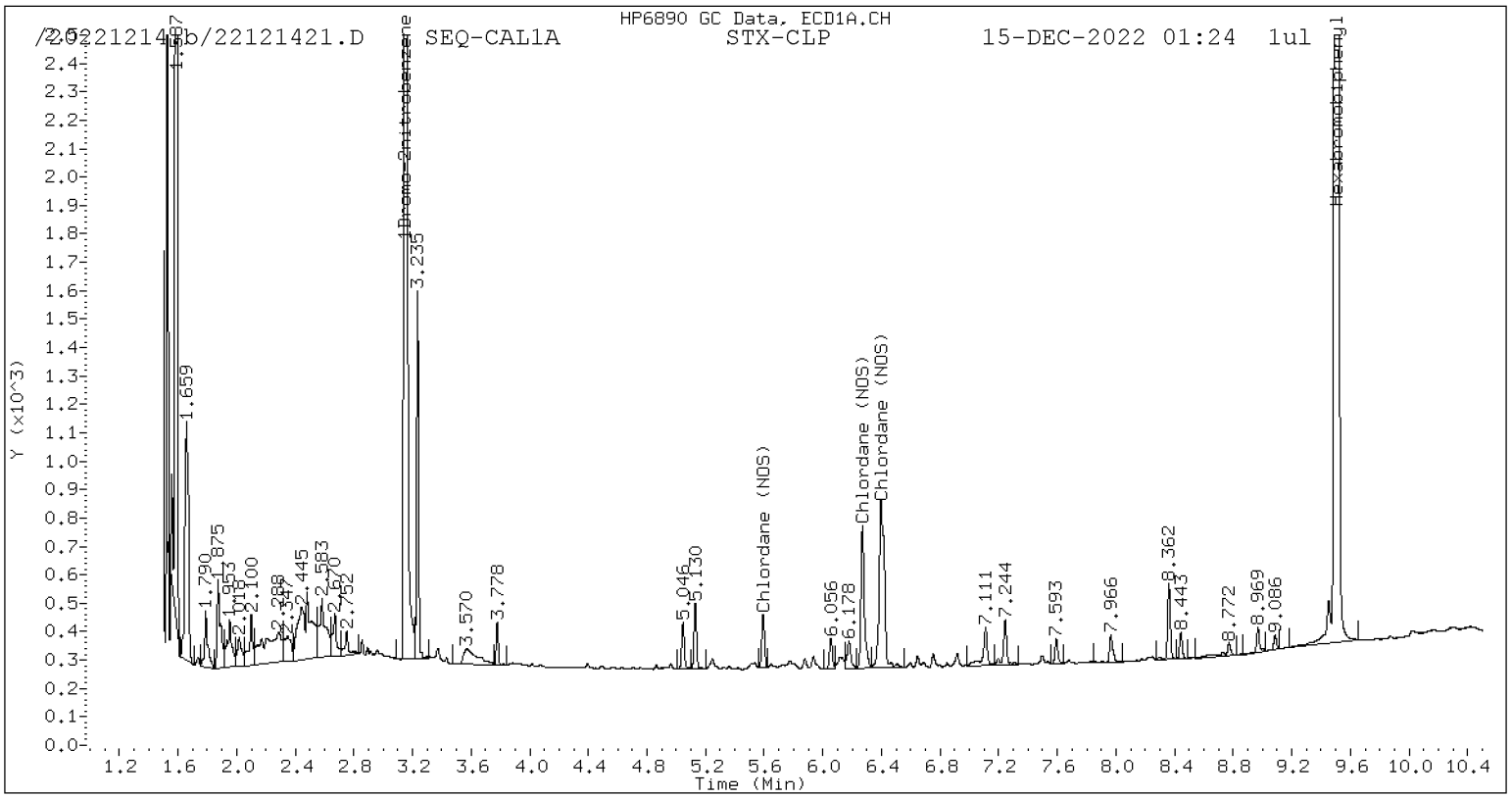
Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1058848	776759	-26.6
Hexabromobiphenyl	797125	1058847	32.8

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

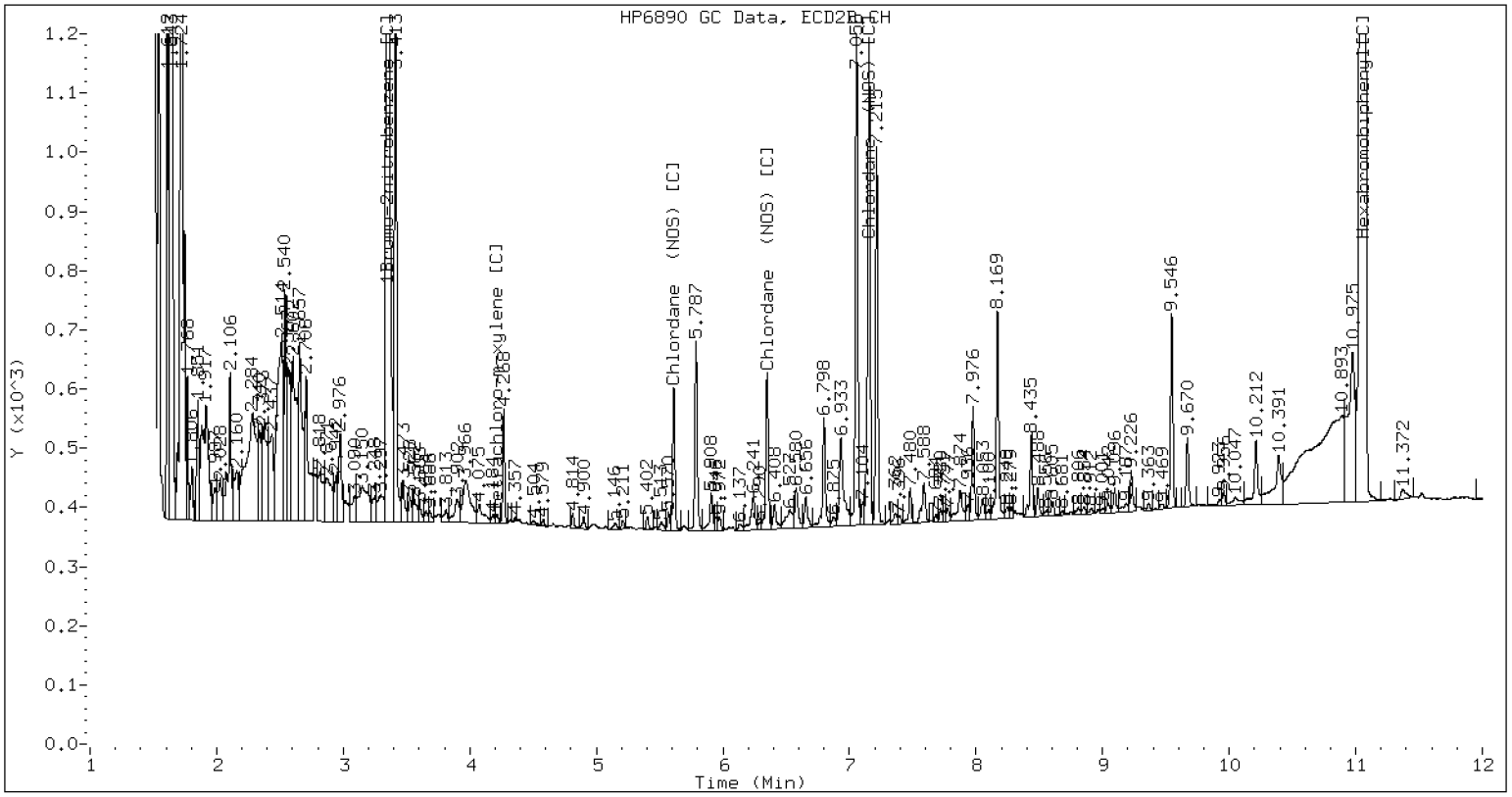
	STX-CLP Col					CLP2 Col				
Cpnd	Peak#	RT	Shift	Height	Amount	Peak#	RT	Shift	Height	Amount
Chlordane (NOS)	1	5.593	0.000	5054	13.1	1	5.612	-0.000	6415	12.8
Chlordane (NOS)	2	6.271	-0.000	15913	12.4	2	6.349	-0.000	7689	13.7
Chlordane (NOS)	3	6.399	0.000	29332	13.1	3	7.155	-0.001	23386	12.3
Total STX-CLPAve (3 peaks): 12.882						Total CLP2Ave (3 peaks): 12.916			RPD = 0	
Corrected Ave (3 peaks): 12.882						Corrected Ave (3 peaks): 12.916			RPD = 0	

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121421.D SEQ-CAL1A CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121421.D
Data file 2: /20221214.b/B20221214.b/22121421.D
Method: \20221214.b\PEST.m
Compound Sublist: TECHCHLOR.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL1A
Client ID:
Injection Date: 15-DEC-2022 01:24
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121422.D
Data file 2: /20221214.b/B20221214.b/22121422.D
Method: \20221214.b\PEST.m
Compound Sublist: TECHCHLOR.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL2A
Client ID:
Injection Date: 15-DEC-2022 01:42
Report Date: 12/16/2022 15:20
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
----			----			0.00	0.00	---	Tetrachloro-m-xylene
----			----			0.00	0.00	---	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	710650	611280	-14.0
Hexabromobiphenyl	641833	704720	9.8

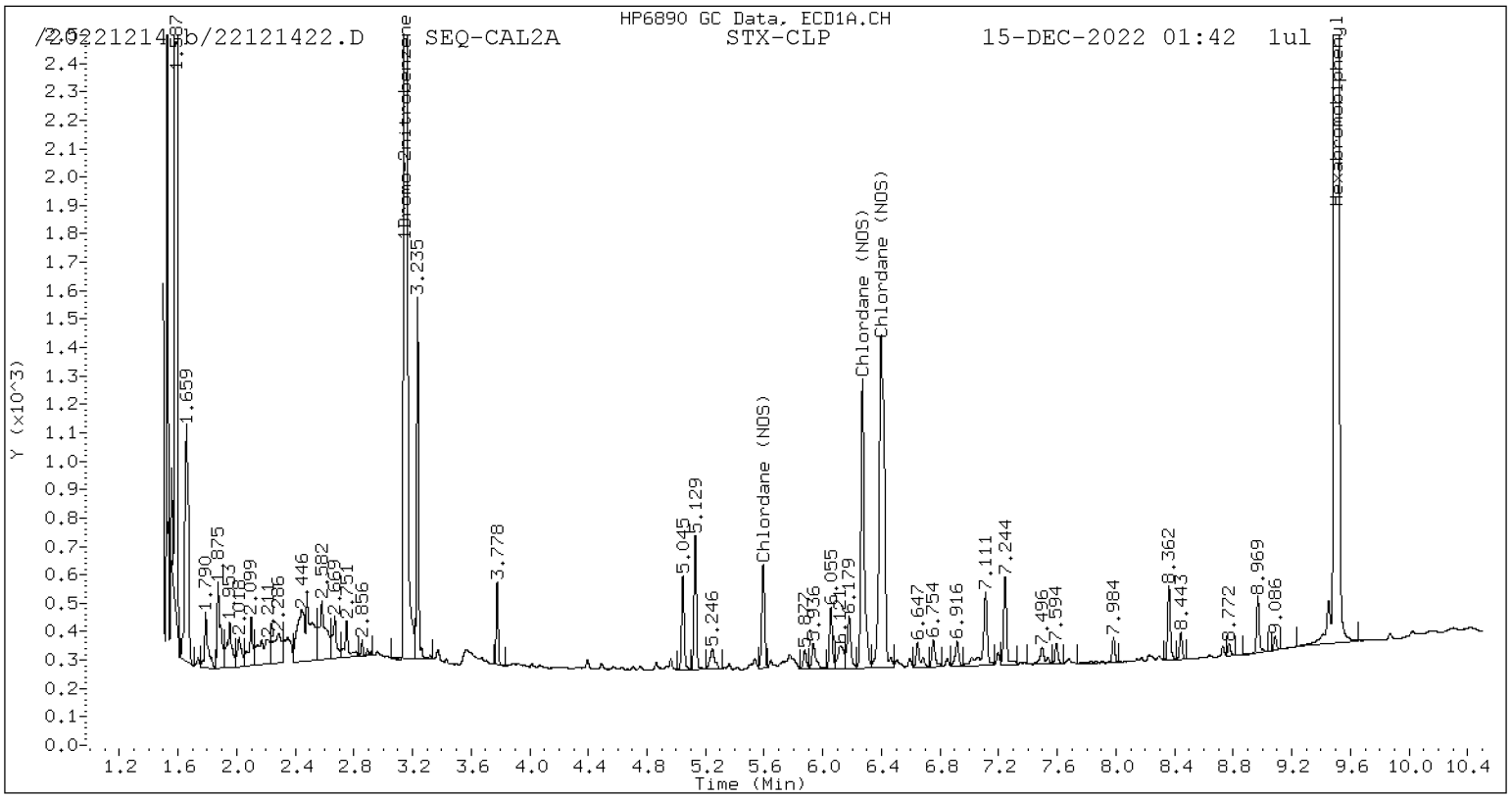
Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1058848	793365	-25.1
Hexabromobiphenyl	797125	1083049	35.9

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

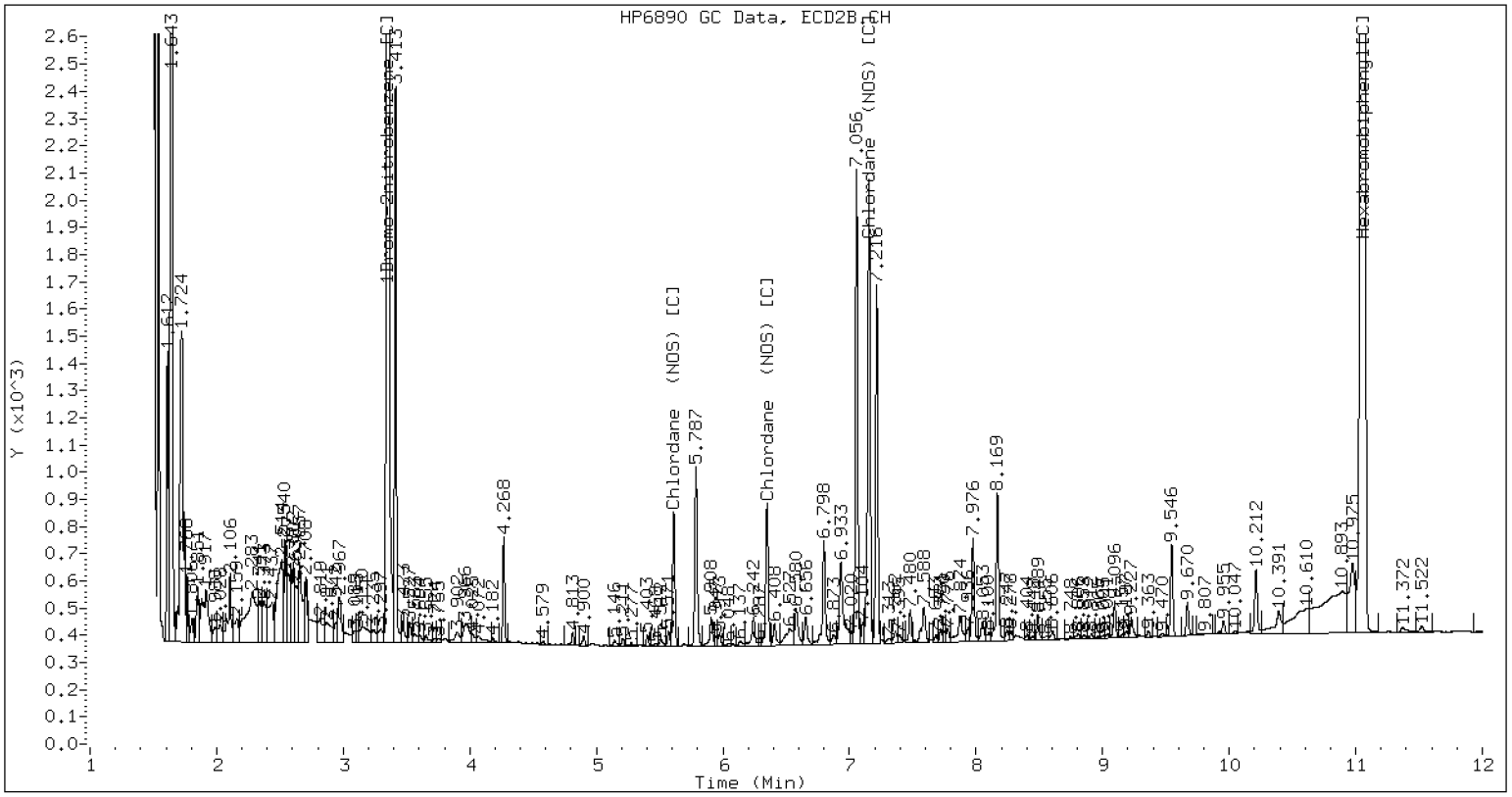
		STX-CLP Col					CLP2 Col				
Cpnd	Peak#	RT	Shift	Height	Amount	Peak#	RT	Shift	Height	Amount	
Chlordane (NOS)	1	5.593	0.000	10046	25.5	1	5.612	-0.000	12488	24.4	
Chlordane (NOS)	2	6.271	-0.000	32715	25.0	2	6.348	-0.001	15023	26.1	
Chlordane (NOS)	3	6.399	0.000	58016	25.4	3	7.155	-0.000	48236	24.8	
Total STX-CLPAve (3 peaks): 25.309						Total CLP2Ave (3 peaks): 25.077				RPD = 1	
Corrected Ave (3 peaks): 25.309						Corrected Ave (3 peaks): 25.077				RPD = 1	

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121422.D SEQ-CAL2A CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121422.D
Data file 2: /20221214.b/B20221214.b/22121422.D
Method: \20221214.b\PEST.m
Compound Sublist: TECHCHLOR.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL2A
Client ID:
Injection Date: 15-DEC-2022 01:42
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121423.D
Data file 2: /20221214.b/B20221214.b/22121423.D
Method: \20221214.b\PEST.m
Compound Sublist: TECHCHLOR.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL3A
Client ID:
Injection Date: 15-DEC-2022 01:59
Report Date: 12/16/2022 15:20
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
----			----			0.00	0.00	---	Tetrachloro-m-xylene
----			----			0.00	0.00	---	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	710650	592438	-16.6
Hexabromobiphenyl	641833	685225	6.8

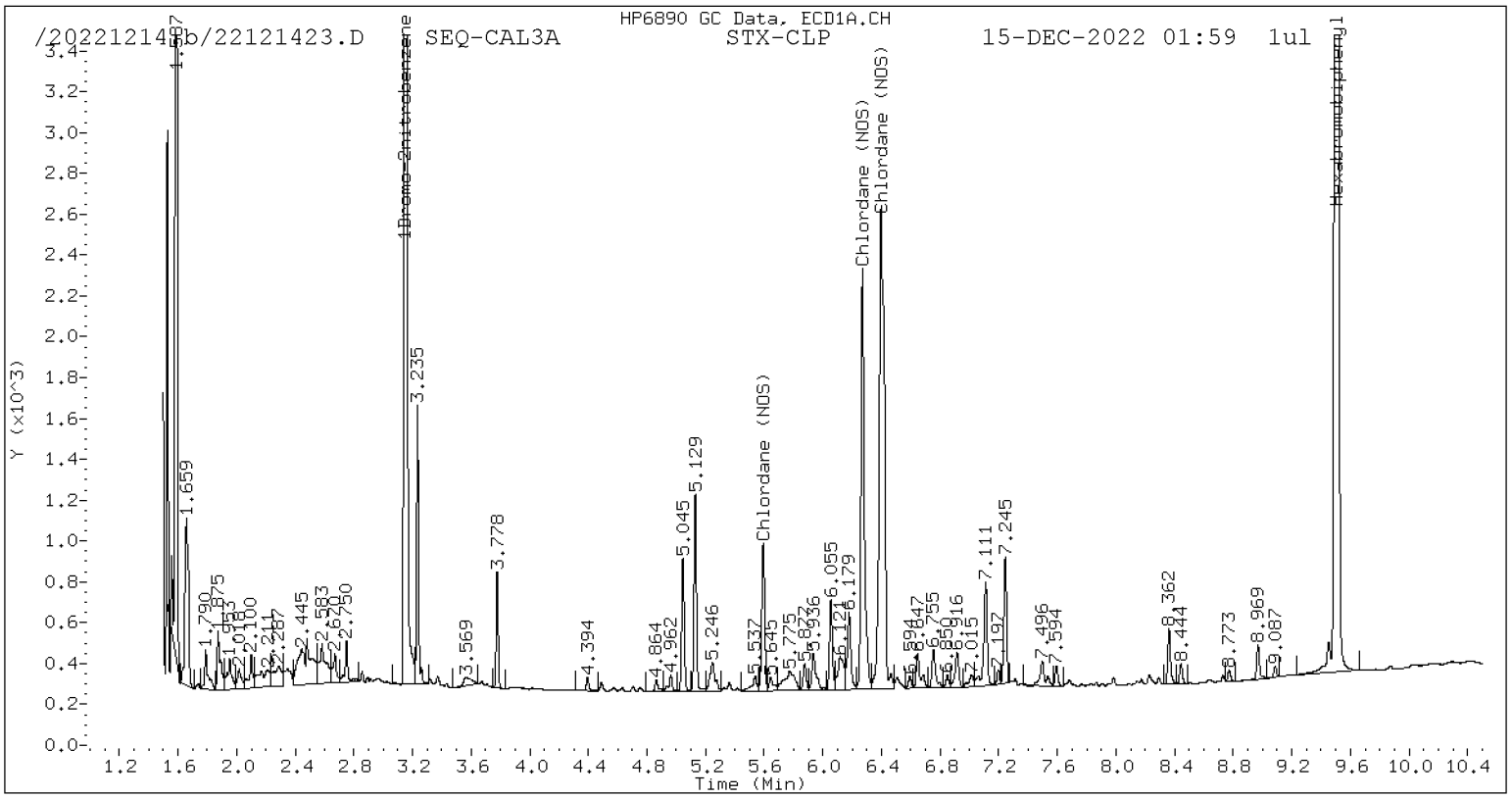
Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1058848	769029	-27.4
Hexabromobiphenyl	797125	1054742	32.3

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

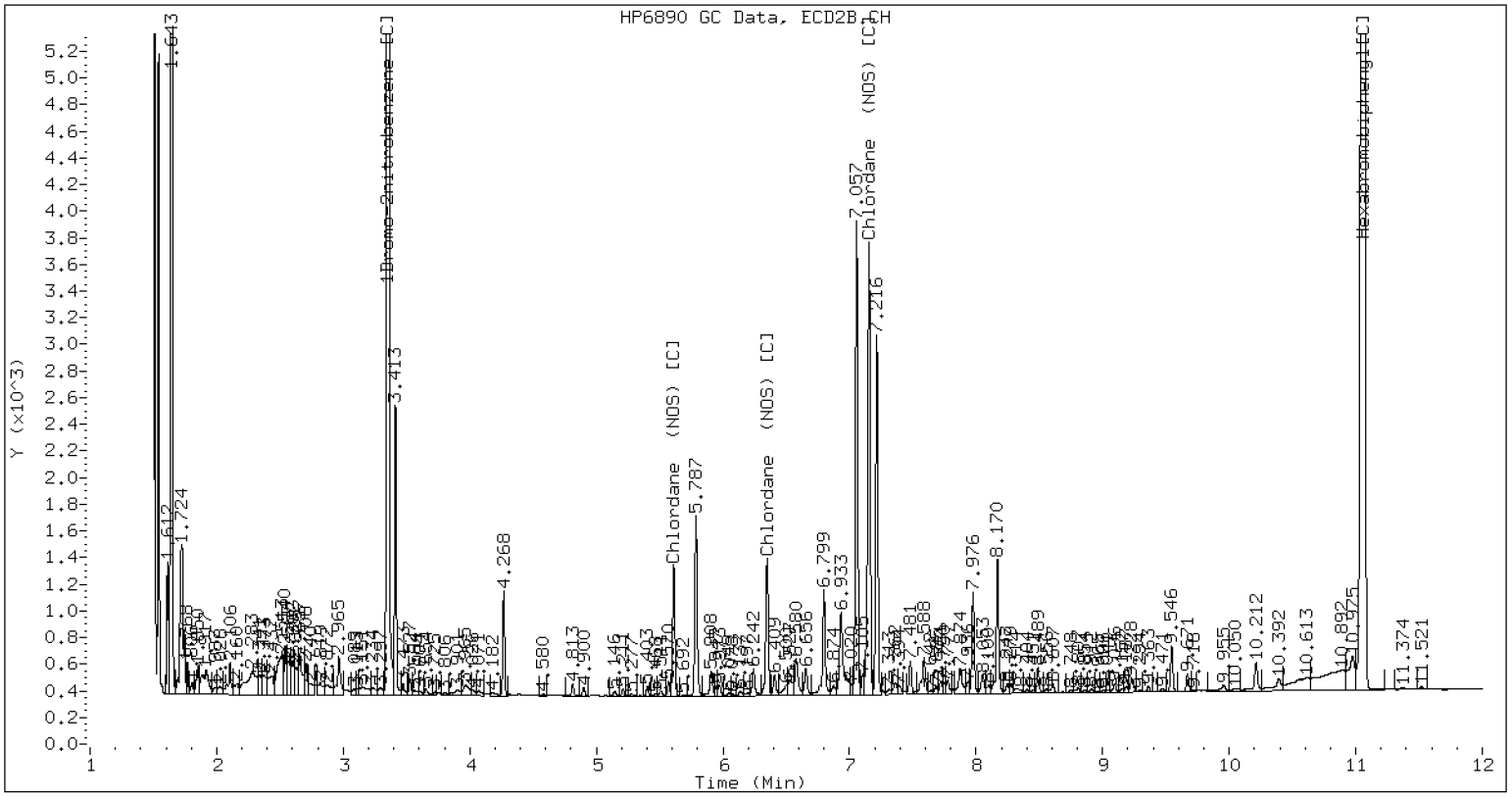
		STX-CLP Col					CLP2 Col				
Cpnd	Peak#	RT	Shift	Height	Amount	Peak#	RT	Shift	Height	Amount	
Chlordane (NOS)	1	5.593	0.001	20502	53.5	1	5.612	-0.000	24816	49.7	
Chlordane (NOS)	2	6.271	-0.000	66320	52.2	2	6.349	0.000	29114	51.9	
Chlordane (NOS)	3	6.399	0.000	116820	52.6	3	7.155	-0.000	98401	51.9	
Total STX-CLPAve (3 peaks): 52.767						Total CLP2Ave (3 peaks): 51.179				RPD = 3	
Corrected Ave (3 peaks): 52.767						Corrected Ave (3 peaks): 51.179				RPD = 3	

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121423.D SEQ-CAL3A CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121423.D
Data file 2: /20221214.b/B20221214.b/22121423.D
Method: \20221214.b\PEST.m
Compound Sublist: TECHCHLOR.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL3A
Client ID:
Injection Date: 15-DEC-2022 01:59
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121424.D
Data file 2: /20221214.b/B20221214.b/22121424.D
Method: \20221214.b\PEST.m
Compound Sublist: TECHCHLOR.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL4A
Client ID:
Injection Date: 15-DEC-2022 02:17
Report Date: 12/16/2022 15:20
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
----			----			0.00	0.00	---	Tetrachloro-m-xylene
----			----			0.00	0.00	---	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	710650	584808	-17.7
Hexabromobiphenyl	641833	675665	5.3

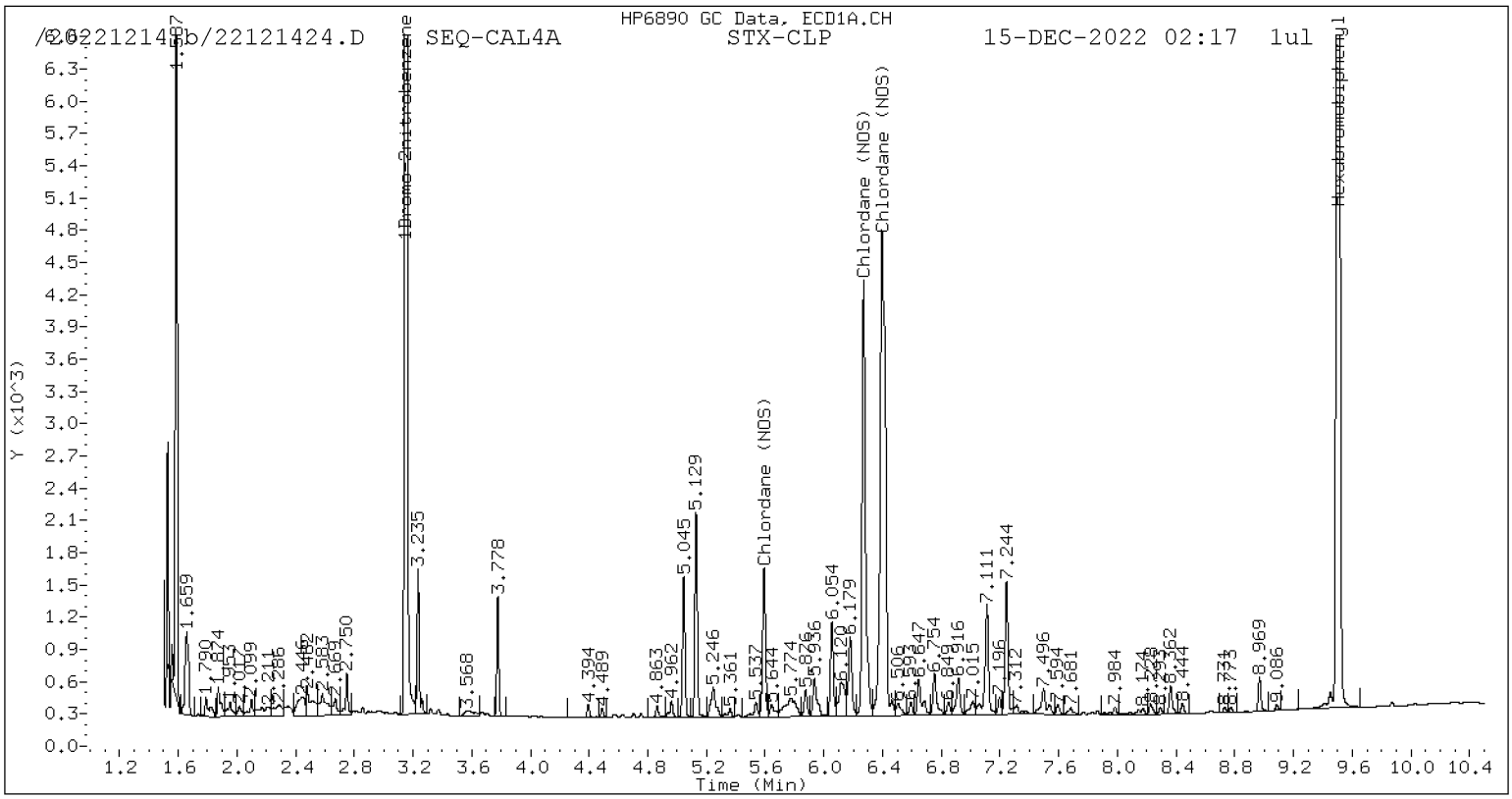
Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1058848	758204	-28.4
Hexabromobiphenyl	797125	1039488	30.4

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

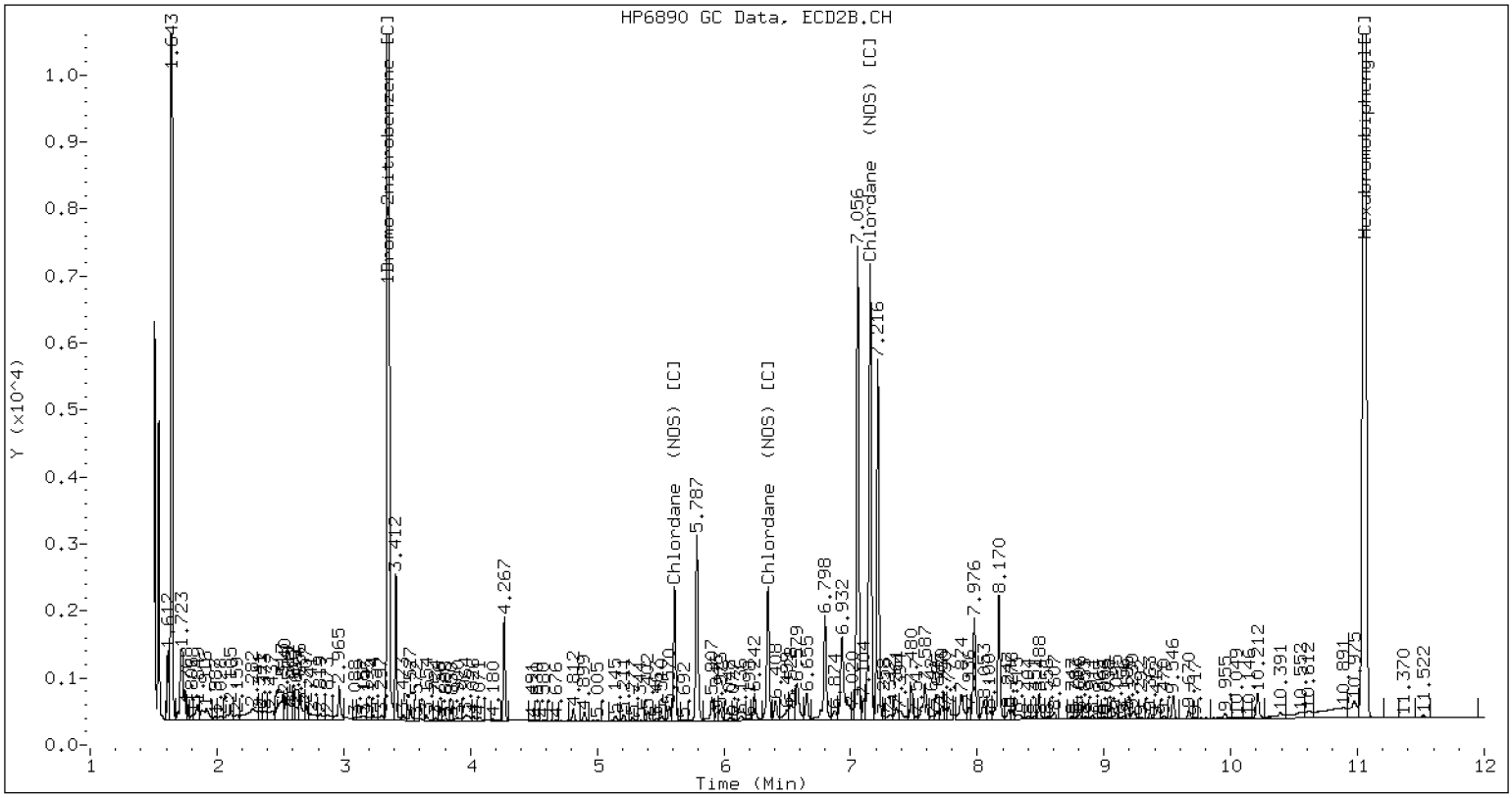
		STX-CLP Col					CLP2 Col				
Cpnd	Peak#	RT	Shift	Height	Amount	Peak#	RT	Shift	Height	Amount	
Chlordane (NOS)	1	5.593	-0.000	39696	105.0	1	5.611	-0.001	49889	101.4	
Chlordane (NOS)	2	6.271	-0.000	131726	105.2	2	6.348	-0.001	56608	102.5	
Chlordane (NOS)	3	6.398	-0.001	229050	104.6	3	7.155	-0.000	195665	104.7	
Total STX-CLPAve (3 peaks): 104.931						Total CLP2Ave (3 peaks): 102.854				RPD = 2	
Corrected Ave (3 peaks): 104.931						Corrected Ave (3 peaks): 102.854				RPD = 2	

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121424.D SEQ-CAL4A CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121424.D
Data file 2: /20221214.b/B20221214.b/22121424.D
Method: \20221214.b\PEST.m
Compound Sublist: TECHCHLOR.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL4A
Client ID:
Injection Date: 15-DEC-2022 02:17
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121425.D
Data file 2: /20221214.b/B20221214.b/22121425.D
Method: \20221214.b\PEST.m
Compound Sublist: TECHCHLOR.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL5A
Client ID:
Injection Date: 15-DEC-2022 02:35
Report Date: 12/16/2022 15:20
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
----			----			0.00	0.00	---	Tetrachloro-m-xylene
----			----			0.00	0.00	---	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	710650	612592	-13.8
Hexabromobiphenyl	641833	705251	9.9

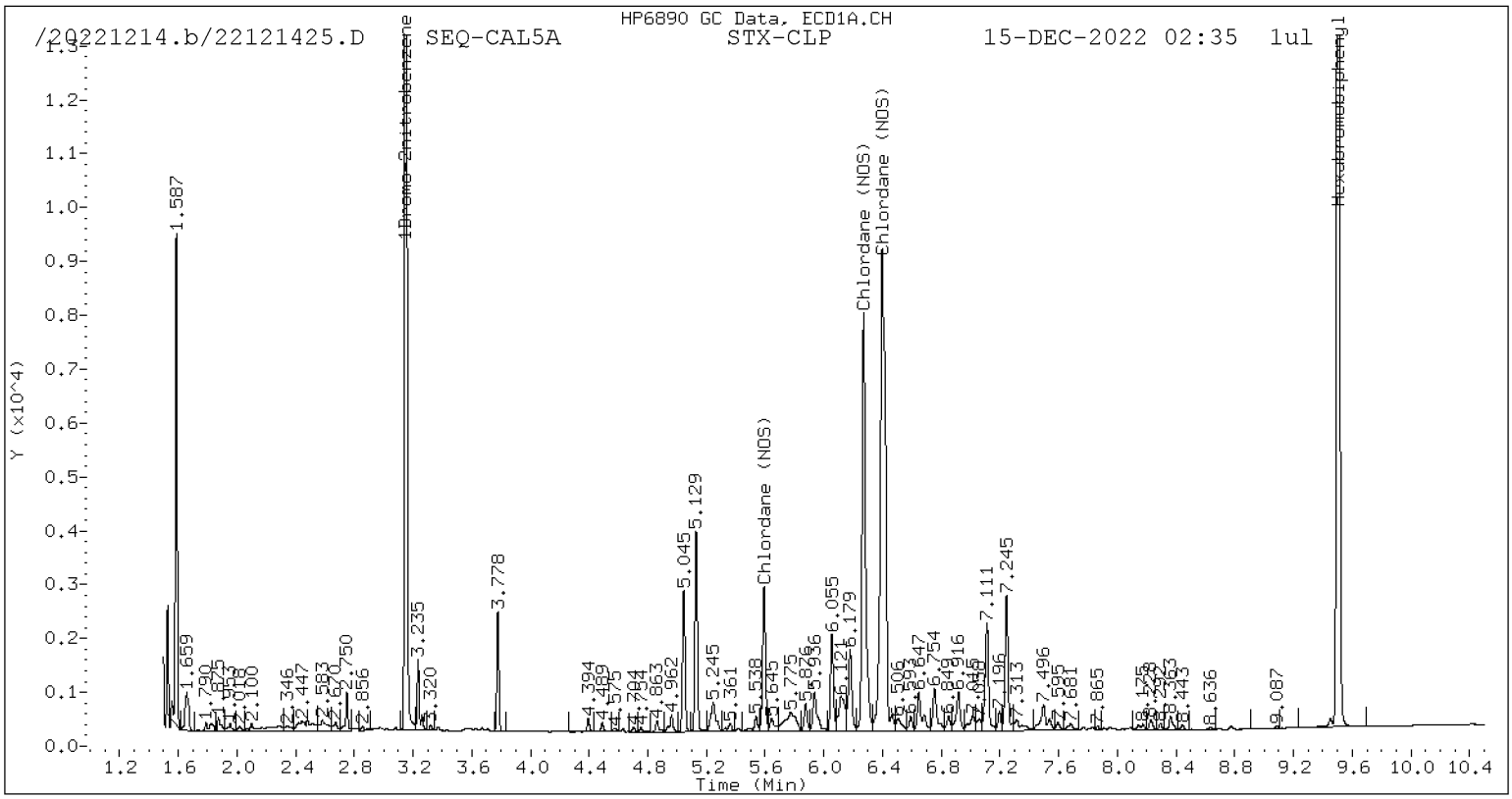
Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1058848	792856	-25.1
Hexabromobiphenyl	797125	1079718	35.5

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

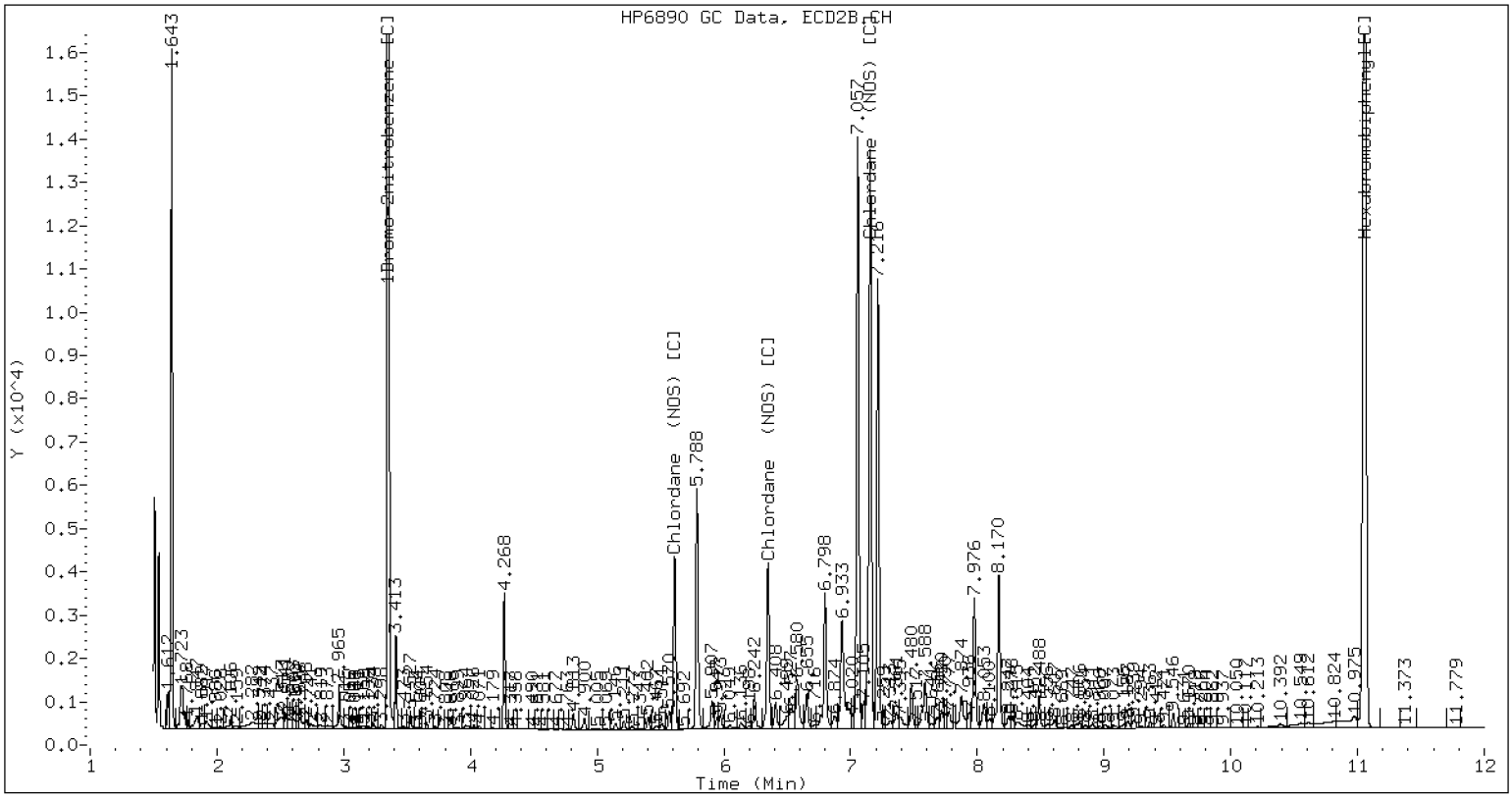
		STX-CLP Col					CLP2 Col				
Cpnd	Peak#	RT	Shift	Height	Amount	Peak#	RT	Shift	Height	Amount	
Chlordane (NOS)	1	5.593	0.000	77307	196.0	1	5.612	-0.000	101527	198.7	
Chlordane (NOS)	2	6.271	0.000	261078	199.7	2	6.349	-0.001	110757	193.0	
Chlordane (NOS)	3	6.399	0.000	449301	196.5	3	7.155	-0.000	389197	200.5	
Total STX-CLPAve (3 peaks): 197.408						Total CLP2Ave (3 peaks): 197.390				RPD = 0	
Corrected Ave (3 peaks): 197.408						Corrected Ave (3 peaks): 197.390				RPD = 0	

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121425.D SEQ-CAL5A CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121425.D
Data file 2: /20221214.b/B20221214.b/22121425.D
Method: \20221214.b\PEST.m
Compound Sublist: TECHCHLOR.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL5A
Client ID:
Injection Date: 15-DEC-2022 02:35
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121426.D
Data file 2: /20221214.b/B20221214.b/22121426.D
Method: \20221214.b\PEST.m
Compound Sublist: TECHCHLOR.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL6A
Client ID:
Injection Date: 15-DEC-2022 02:53
Report Date: 12/16/2022 15:20
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
----			----			0.00	0.00	---	Tetrachloro-m-xylene
----			----			0.00	0.00	---	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	710650	603526	-15.1
Hexabromobiphenyl	641833	699031	8.9

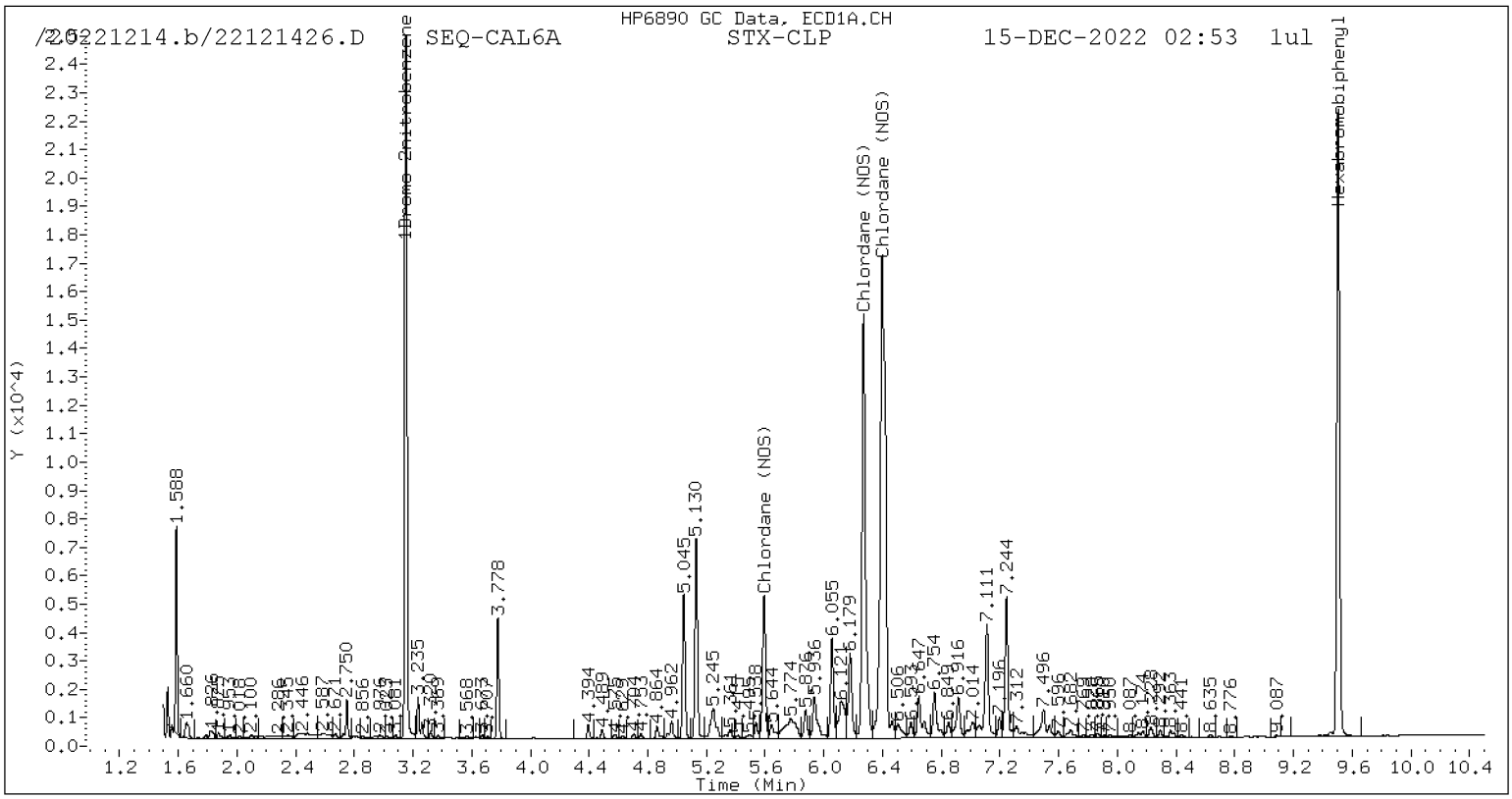
Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1058848	779405	-26.4
Hexabromobiphenyl	797125	1068976	34.1

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

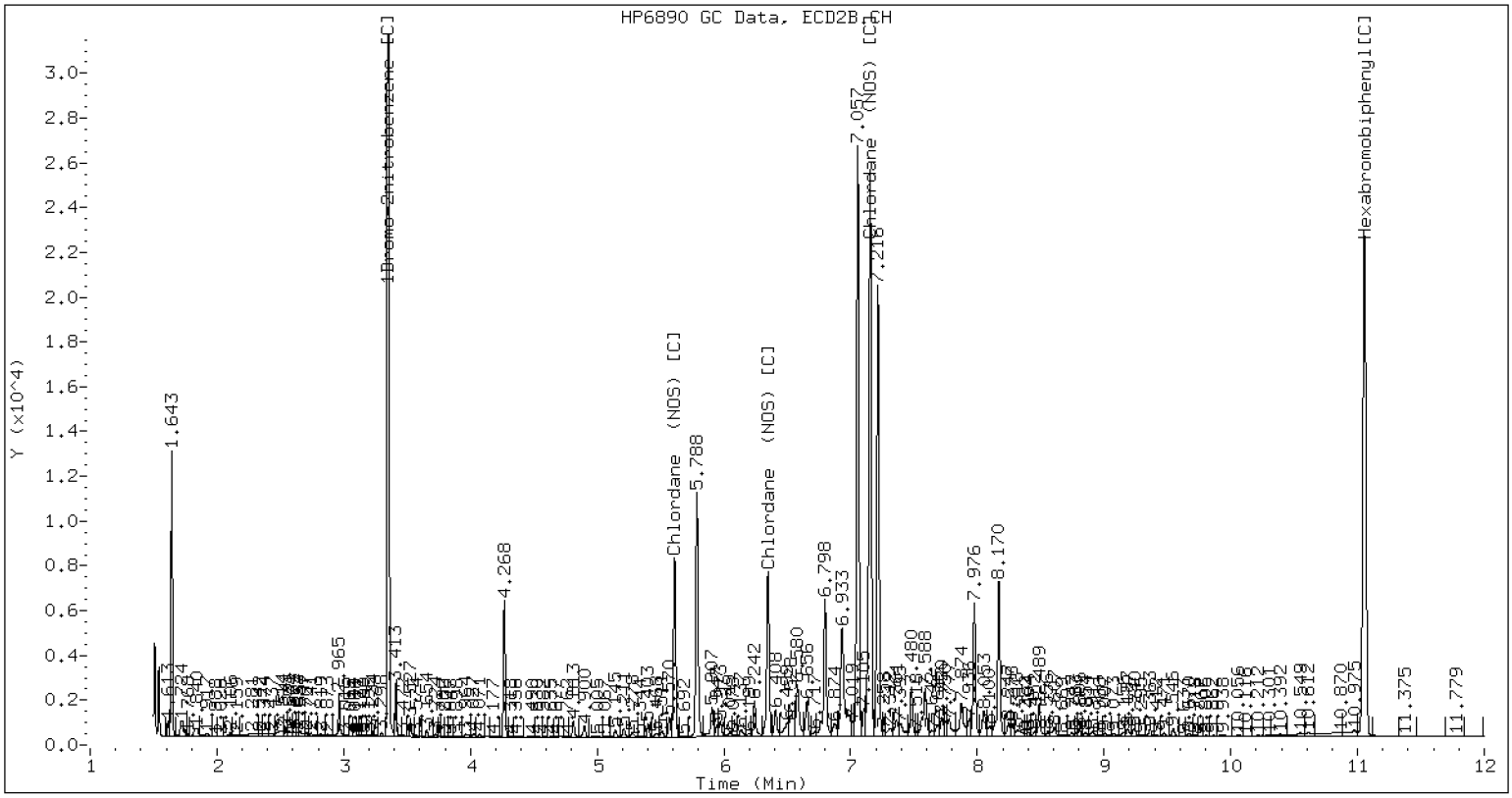
	STX-CLP Col				CLP2 Col				
Cpnd	Peak#	RT	Shift	Height	Amount	Peak#	RT	Shift	Height	Amount
Chlordane (NOS)	1	5.592	-0.000	146950	375.8	1	5.612	-0.000	203386	402.0
Chlordane (NOS)	2	6.271	-0.000	503310	388.5	2	6.349	-0.000	212637	374.2
Chlordane (NOS)	3	6.399	0.000	857451	378.4	3	7.155	-0.000	752631	391.6
Total STX-CLPAve (3 peaks): 380.894					Total CLP2Ave (3 peaks): 389.290				RPD = 2	
Corrected Ave (3 peaks): 380.894					Corrected Ave (3 peaks): 389.290				RPD = 2	

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121426.D SEQ-CAL6A CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121426.D
Data file 2: /20221214.b/B20221214.b/22121426.D
Method: \20221214.b\PEST.m
Compound Sublist: TECHCHLOR.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL6A
Client ID:
Injection Date: 15-DEC-2022 02:53
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121427.D
Data file 2: /20221214.b/B20221214.b/22121427.D
Method: \20221214.b\PEST.m
Compound Sublist: TECHCHLOR.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL7A
Client ID:
Injection Date: 15-DEC-2022 03:11
Report Date: 12/16/2022 15:20
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP on col	CLP2 on col	RPD	Compound/Flag
RT	Shift	Response	RT	Shift	Response				
----			----			0.00	0.00	---	Tetrachloro-m-xylene
9.380	0.025	1930	----			0.31	0.00	---	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	710650	610159	-14.1
Hexabromobiphenyl	641833	692215	7.8

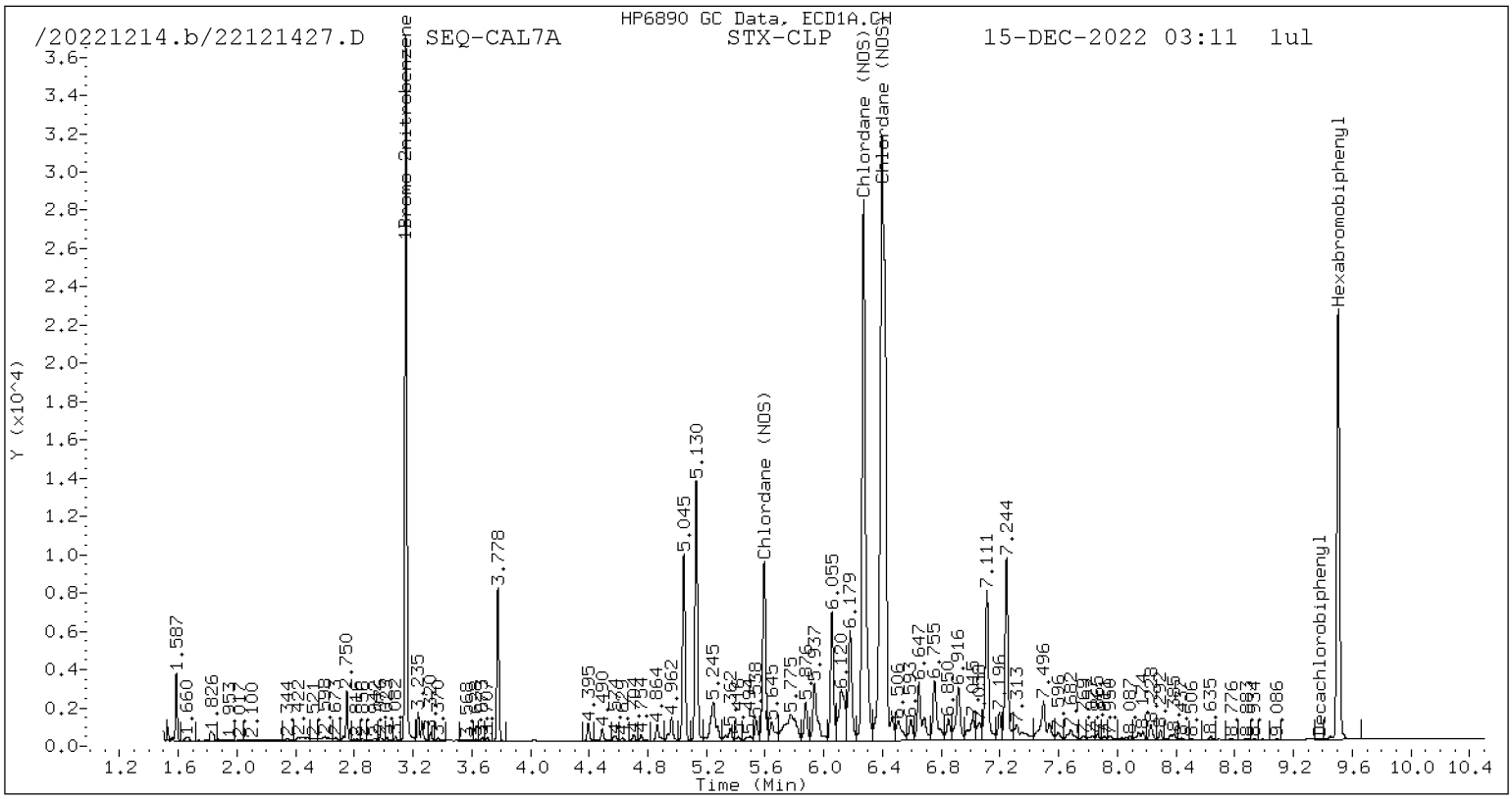
Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1058848	790388	-25.4
Hexabromobiphenyl	797125	1059143	32.9

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

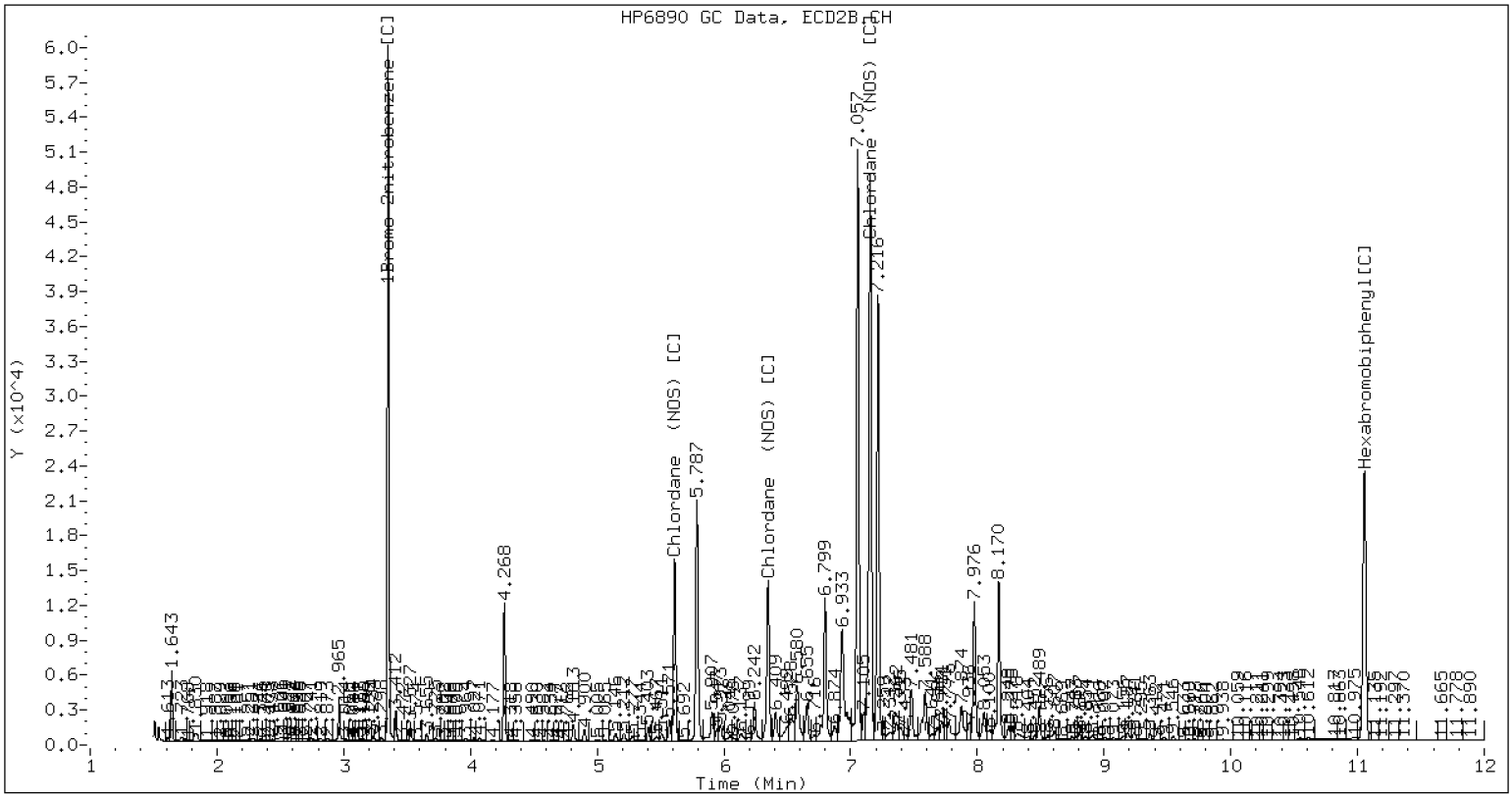
		STX-CLP Col					CLP2 Col				
Cpnd	Peak#	RT	Shift	Height	Amount	Peak#	RT	Shift	Height	Amount	
Chlordane (NOS)	1	5.593	0.001	276980	715.3	1	5.612	0.000	398620	795.3	
Chlordane (NOS)	2	6.271	-0.000	961368	749.3	2	6.349	0.000	405170	719.7	
Chlordane (NOS)	3	6.399	-0.000	1631241	727.0	3	7.155	0.000	1462876	768.2	
Total STX-CLPAve (3 peaks): 730.539						Total CLP2Ave (3 peaks): 761.064				RPD = 4	
Corrected Ave (3 peaks): 730.539						Corrected Ave (3 peaks): 761.064				RPD = 4	

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121427.D SEQ-CAL7A CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121427.D
Data file 2: /20221214.b/B20221214.b/22121427.D
Method: \20221214.b\PEST.m
Compound Sublist: TECHCHLOR.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL7A
Client ID:
Injection Date: 15-DEC-2022 03:11
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121428.D
Data file 2: /20221214.b/B20221214.b/22121428.D
Method: \20221214.b\PEST.m
Compound Sublist: TOXAPH.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL8A
Client ID:
Injection Date: 15-DEC-2022 03:29
Report Date: 12/16/2022 15:20
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
3.828	0.000	8893	4.221	0.000	14795	0.95	0.98	4.0	Tetrachloro-m-xylene
9.355	0.000	15511	10.467	0.000	24896	2.54	2.86	11.7	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	710650	691781	-2.7
Hexabromobiphenyl	641833	602865	-6.1

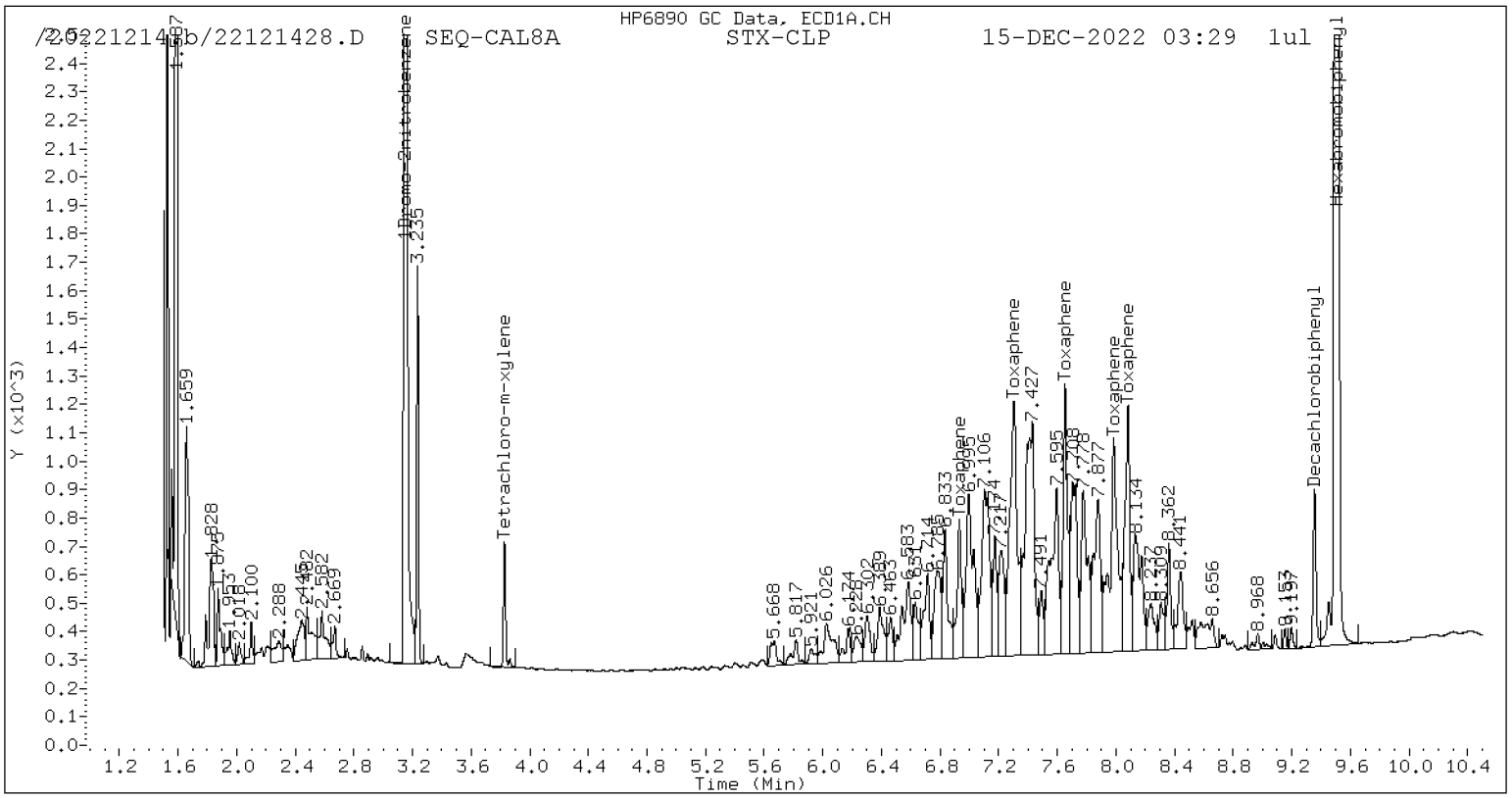
Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1058848	1068328	0.9
Hexabromobiphenyl	797125	788806	-1.0

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

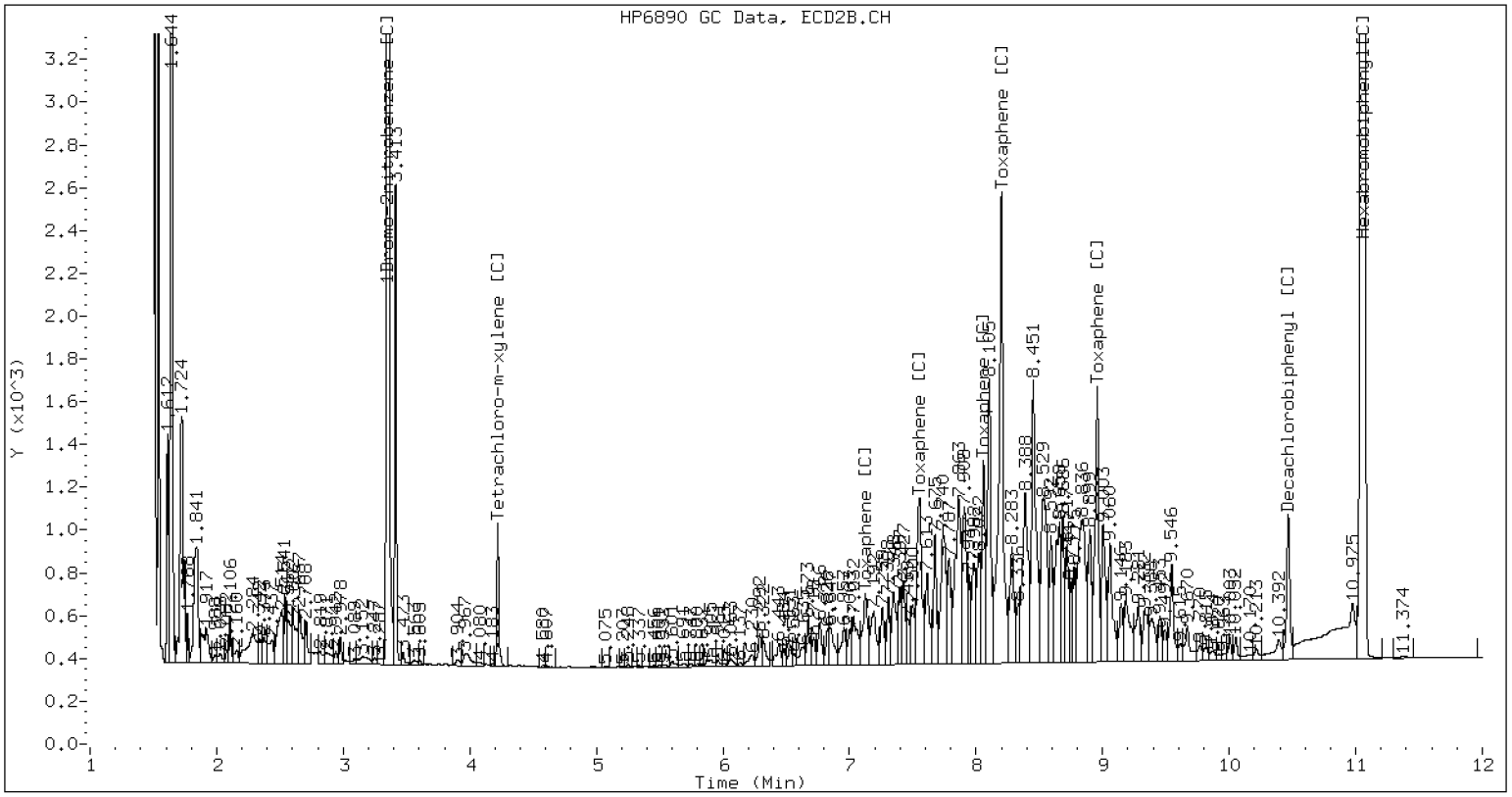
		STX-CLP Col					CLP2 Col				
Cpnd	Peak#	RT	Shift	Height	Amount	Peak#	RT	Shift	Height	Amount	
Toxaphene	1	6.931	0.000	20939	118.9	1	7.125	-0.000	18390	124.1	
Toxaphene	2	7.304	0.000	62921	127.5	2	7.553	-0.000	43437	130.4	
Toxaphene	3	7.653	-0.000	40147	126.2	3	8.059	-0.001	32235	127.1	
Toxaphene	4	7.985	-0.001	56816	133.6	4	8.201	-0.001	109296	132.1	
Toxaphene	5	8.082	-0.000	39643	123.4	5	8.958	-0.001	50997	125.7	
Total STX-CLPAve (5 peaks): 125.907						Total CLP2Ave (5 peaks): 127.865				RPD = 2	
Corrected Ave (5 peaks): 125.907						Corrected Ave (5 peaks): 127.865				RPD = 2	

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121428.D SEQ-CAL8A CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121428.D
Data file 2: /20221214.b/B20221214.b/22121428.D
Method: \20221214.b\PEST.m
Compound Sublist: TOXAPH.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL8A
Client ID:
Injection Date: 15-DEC-2022 03:29
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121429.D
Data file 2: /20221214.b/B20221214.b/22121429.D
Method: \20221214.b\PEST.m
Compound Sublist: TOXAPH.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL9A
Client ID:
Injection Date: 15-DEC-2022 03:46
Report Date: 12/16/2022 15:20
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
3.828	-0.000	18632	4.220	-0.000	29829	1.92	1.92	0.1	Tetrachloro-m-xylene
9.355	0.000	29179	10.467	0.000	44716	4.64	4.98	7.1	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	710650	713620	0.4
Hexabromobiphenyl	641833	620026	-3.4

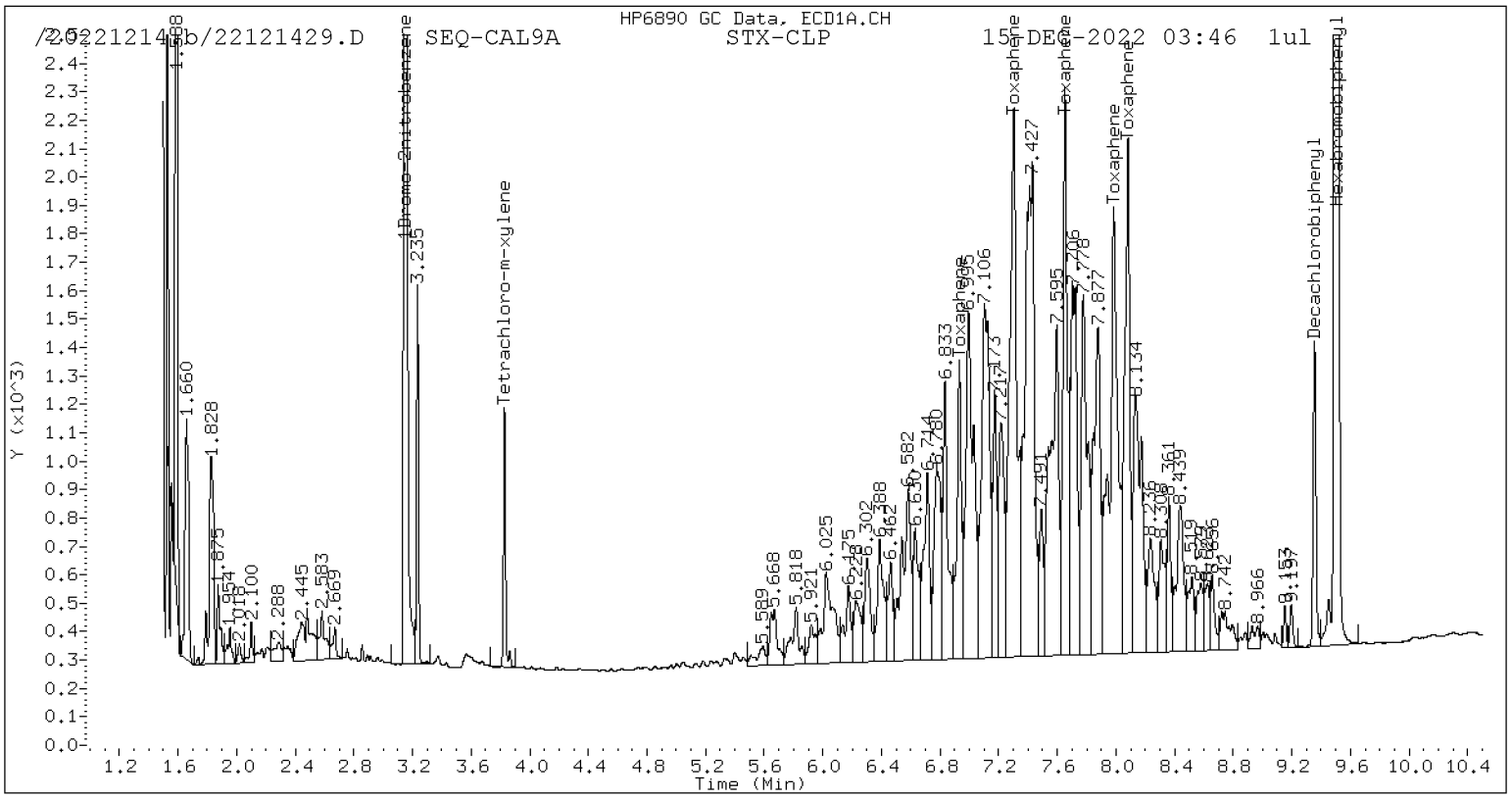
Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1058848	1104488	4.3
Hexabromobiphenyl	797125	811719	1.8

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

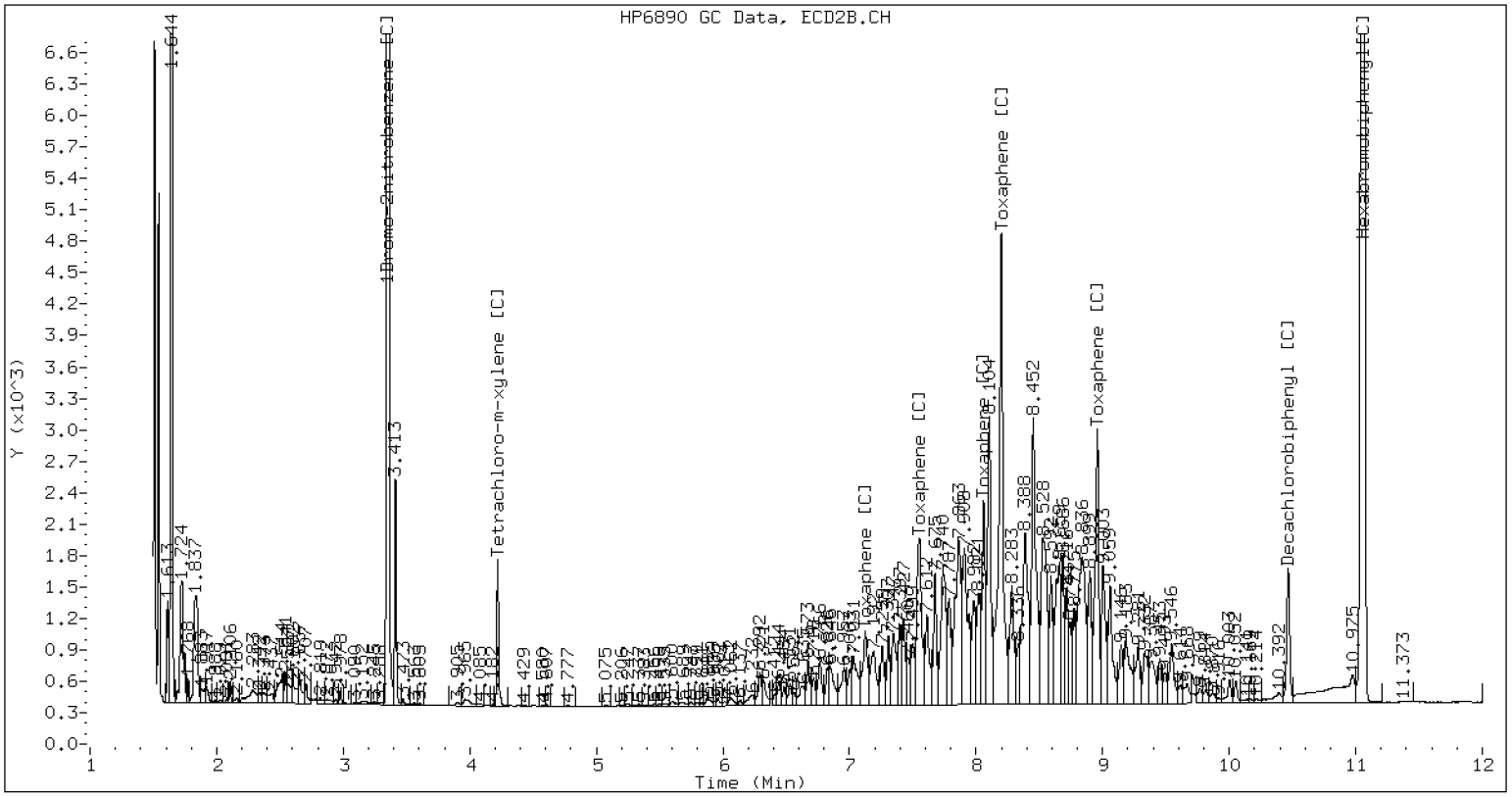
	STX-CLP Col					CLP2 Col				
Cpnd	Peak#	RT	Shift	Height	Amount	Peak#	RT	Shift	Height	Amount
Toxaphene	1	6.931	0.000	47415	261.8	1	7.125	-0.001	38790	254.4
Toxaphene	2	7.302	-0.001	134642	265.2	2	7.552	-0.001	89754	261.8
Toxaphene	3	7.652	-0.001	86679	264.9	3	8.059	-0.001	67442	258.4
Toxaphene	4	7.985	-0.001	125891	287.7	4	8.200	-0.001	220426	258.9
Toxaphene	5	8.081	-0.000	85903	260.0	5	8.958	-0.001	104601	250.5
Total STX-CLPAve (5 peaks): 267.939						Total CLP2Ave (5 peaks): 256.784				RPD = 4
Corrected Ave (5 peaks): 267.939						Corrected Ave (5 peaks): 256.784				RPD = 4

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121429.D SEQ-CAL9A CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121429.D
Data file 2: /20221214.b/B20221214.b/22121429.D
Method: \20221214.b\PEST.m
Compound Sublist: TOXAPH.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CAL9A
Client ID:
Injection Date: 15-DEC-2022 03:46
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121430.D
Data file 2: /20221214.b/B20221214.b/22121430.D
Method: \20221214.b\PEST.m
Compound Sublist: TOXAPH.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CALAA
Client ID:
Injection Date: 15-DEC-2022 04:04
Report Date: 12/16/2022 15:20
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
3.828	-0.000	37717	4.220	0.000	60469	3.98	3.98	0.0	Tetrachloro-m-xylene
9.355	0.000	57106	10.467	0.000	82418	9.20	9.32	1.3	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	710650	696179	-2.0
Hexabromobiphenyl	641833	612804	-4.5

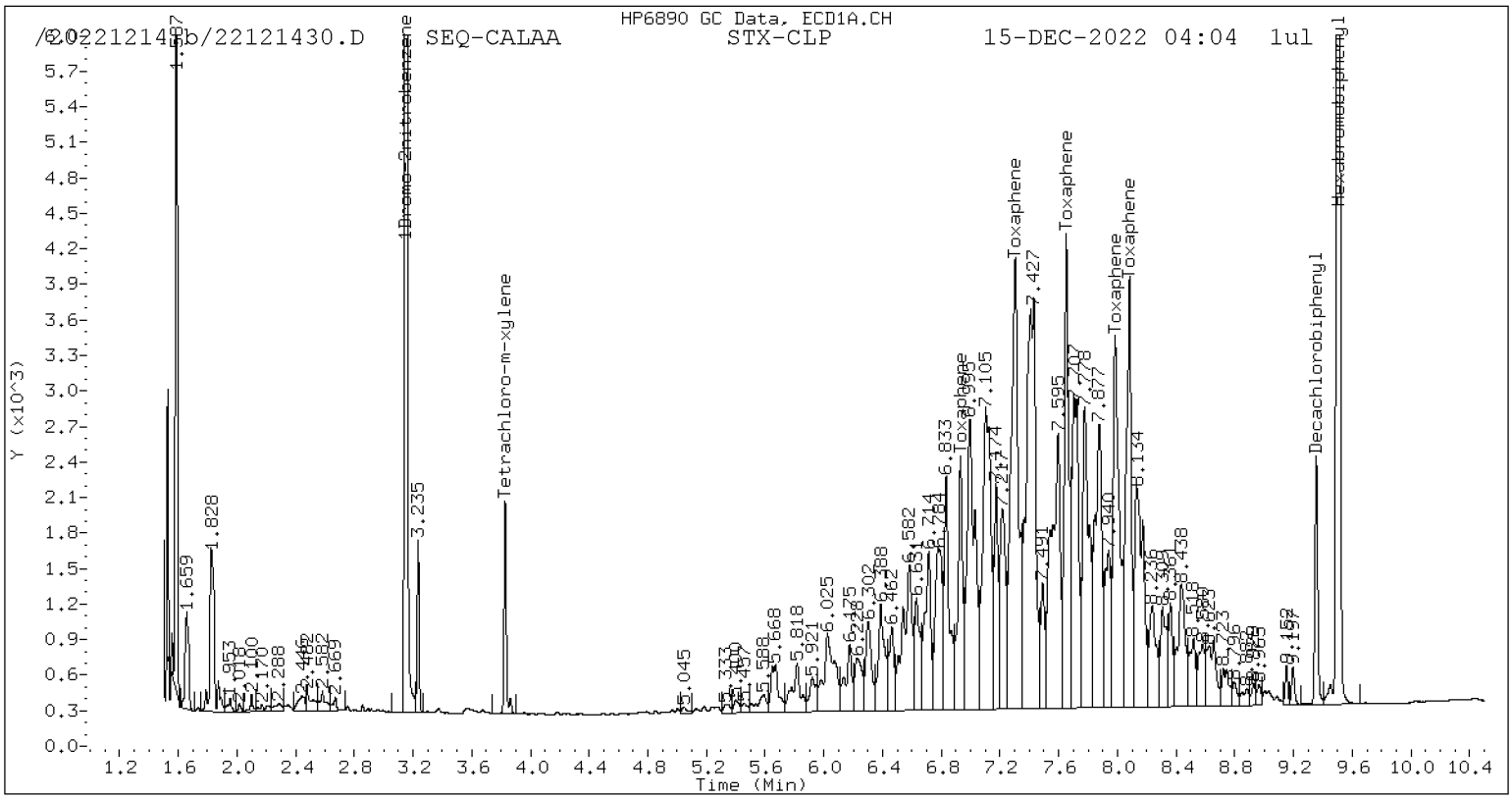
Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1058848	1078803	1.9
Hexabromobiphenyl	797125	800071	0.4

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

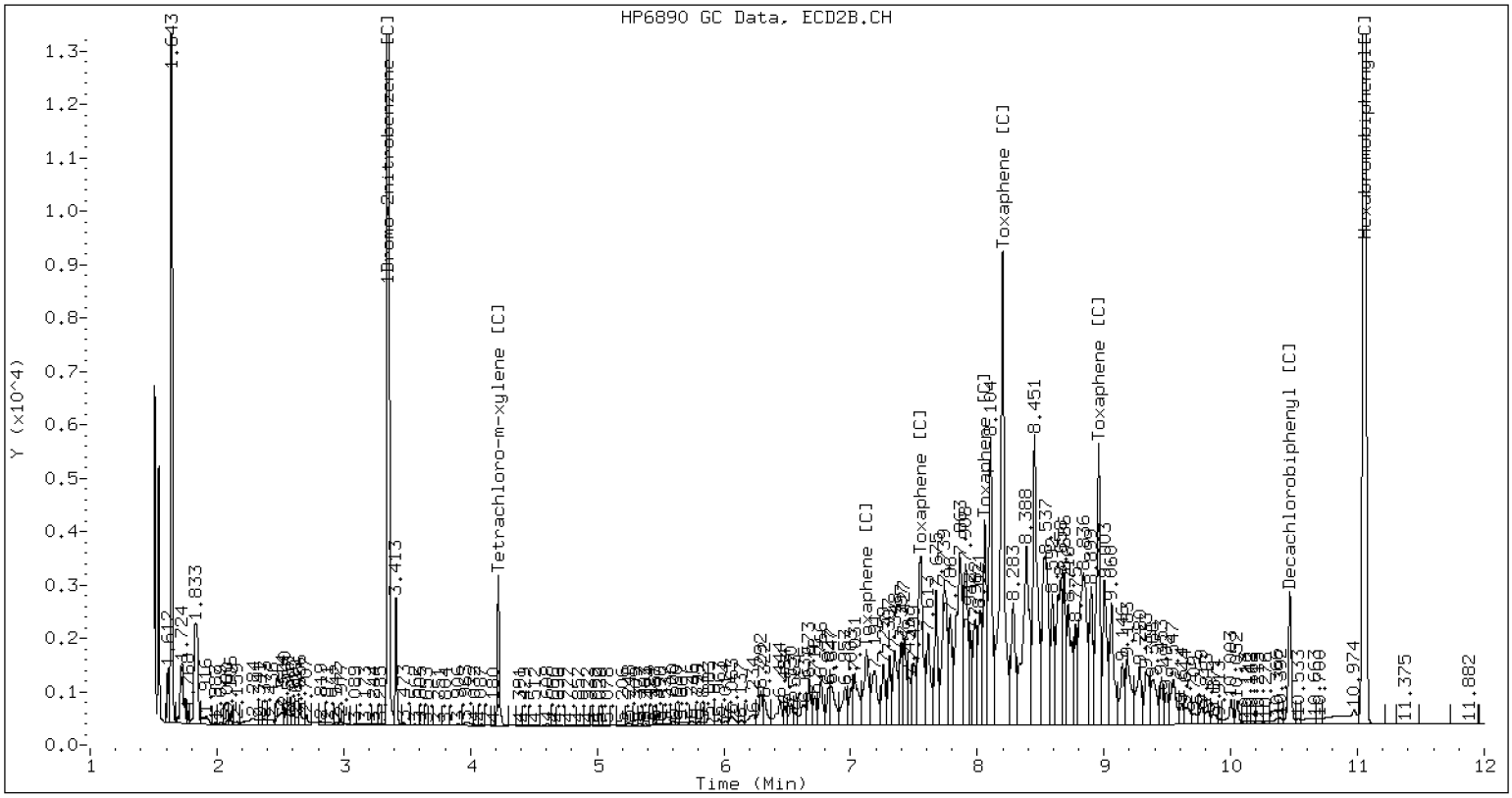
	STX-CLP Col					CLP2 Col				
Cpnd	Peak#	RT	Shift	Height	Amount	Peak#	RT	Shift	Height	Amount
Toxaphene	1	6.931	-0.000	96535	539.4	1	7.125	-0.001	78635	523.1
Toxaphene	2	7.304	0.000	273576	545.2	2	7.553	-0.001	179081	529.9
Toxaphene	3	7.652	-0.001	177095	547.7	3	8.059	-0.001	133547	519.1
Toxaphene	4	7.985	-0.001	190443	440.4	4	8.200	-0.001	437035	520.8
Toxaphene	5	8.082	-0.000	175009	535.8	5	8.958	-0.001	209659	509.4
Total STX-CLPAve (5 peaks): 521.711						Total CLP2Ave (5 peaks): 520.468				RPD = 0
Corrected Ave (5 peaks): 521.711						Corrected Ave (5 peaks): 520.468				RPD = 0

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121430.D SEQ-CALAA CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121430.D
Data file 2: /20221214.b/B20221214.b/22121430.D
Method: \20221214.b\PEST.m
Compound Sublist: TOXAPH.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CALAA
Client ID:
Injection Date: 15-DEC-2022 04:04
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121431.D
Data file 2: /20221214.b/B20221214.b/22121431.D
Method: \20221214.b\PEST.m
Compound Sublist: TOXAPH.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CALAB
Client ID:
Injection Date: 15-DEC-2022 04:22
Report Date: 12/16/2022 15:20
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
3.828	0.000	74347	4.221	0.000	119694	7.73	7.77	0.5	Tetrachloro-m-xylene
9.355	-0.000	107024	10.466	-0.000	151970	17.00	17.11	0.7	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	710650	706924	-0.5
Hexabromobiphenyl	641833	621486	-3.2

Column 2

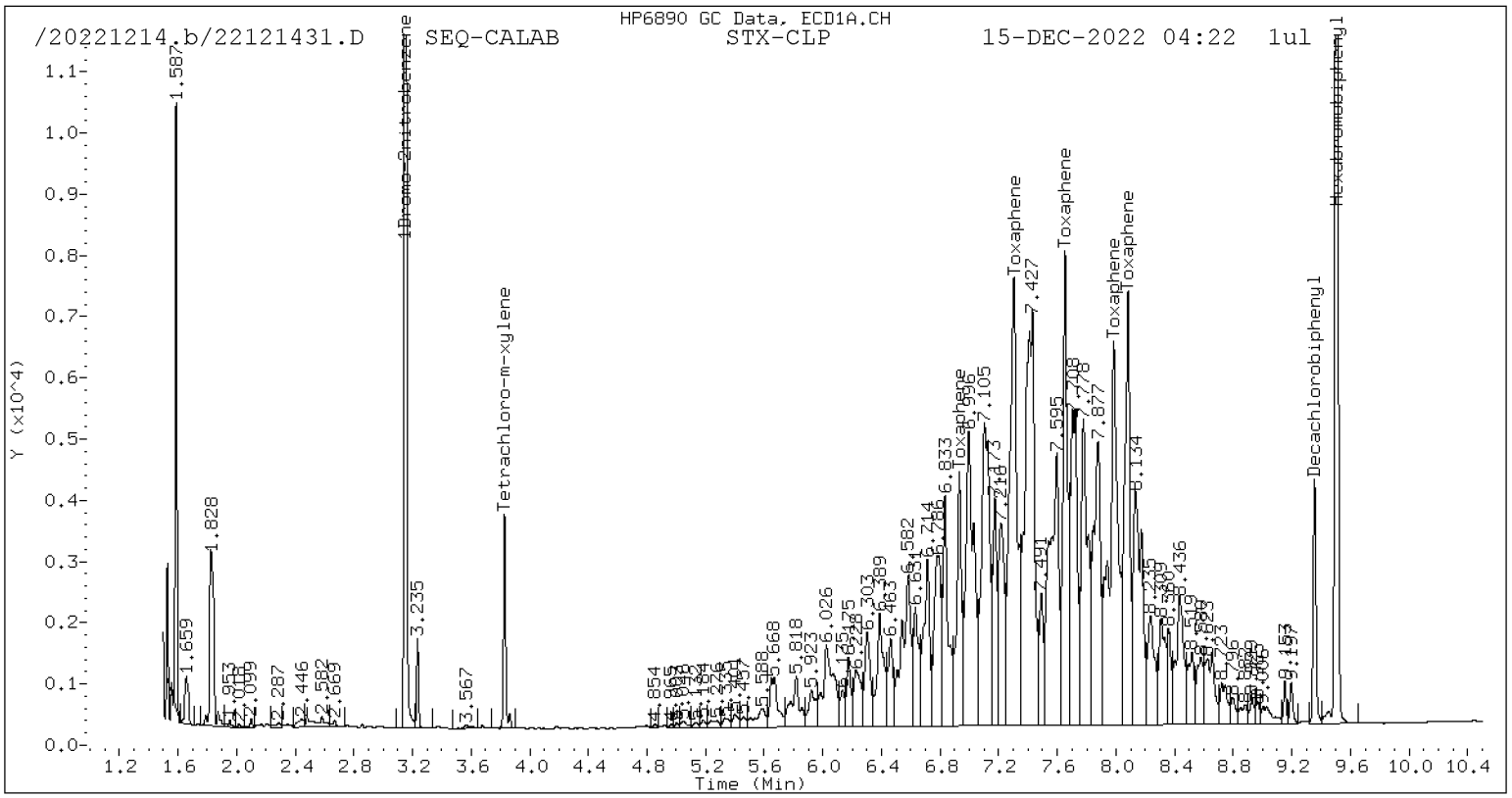
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1058848	1093936	3.3
Hexabromobiphenyl	797125	803782	0.8

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	STX-CLP Col					CLP2 Col				
Cpnd	Peak#	RT	Shift	Height	Amount	Peak#	RT	Shift	Height	Amount
Toxaphene	1	6.931	0.000	192757	1062.0	1	7.125	-0.000	156515	1036.5
Toxaphene	2	7.303	-0.000	530863	1043.2	2	7.553	-0.001	349637	1029.8
Toxaphene	3	7.653	-0.000	344194	1049.6	3	8.059	-0.000	265296	1026.5
Toxaphene	4	7.986	-0.000	522105	1190.6	4	8.201	-0.001	854255	1013.3
Toxaphene	5	8.082	-0.000	345477	1043.0	5	8.958	-0.001	416452	1007.1

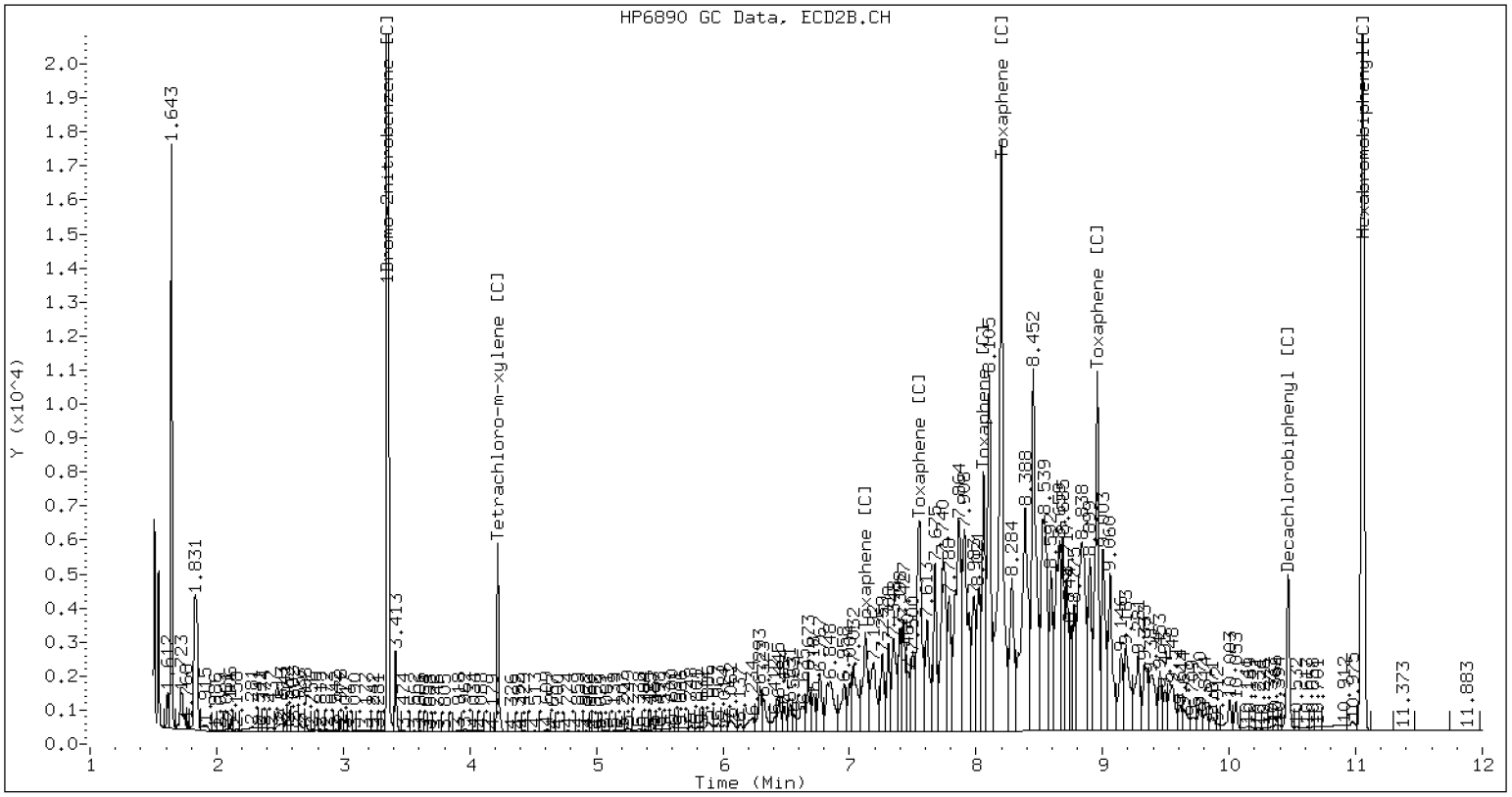
Total STX-CLPAve (5 peaks): 1077.665 Total CLP2Ave (5 peaks): 1022.630 RPD = 5
Corrected Ave (5 peaks): 1077.665 Corrected Ave (5 peaks): 1022.630 RPD = 5

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121431.D SEQ-CALAB CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121431.D
Data file 2: /20221214.b/B20221214.b/22121431.D
Method: \20221214.b\PEST.m
Compound Sublist: TOXAPH.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CALAB
Client ID:
Injection Date: 15-DEC-2022 04:22
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121432.D
Data file 2: /20221214.b/B20221214.b/22121432.D
Method: \20221214.b\PEST.m
Compound Sublist: TOXAPH.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CALAC
Client ID:
Injection Date: 15-DEC-2022 04:40
Report Date: 12/16/2022 15:20
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
3.828	0.000	169388	4.221	0.000	273030	18.51	18.69	1.0	Tetrachloro-m-xylene
9.356	0.001	234532	10.466	-0.000	332716	40.53	40.11	1.0	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

˜ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	710650	672958	-5.3
Hexabromobiphenyl	641833	571112	-11.0

Column 2

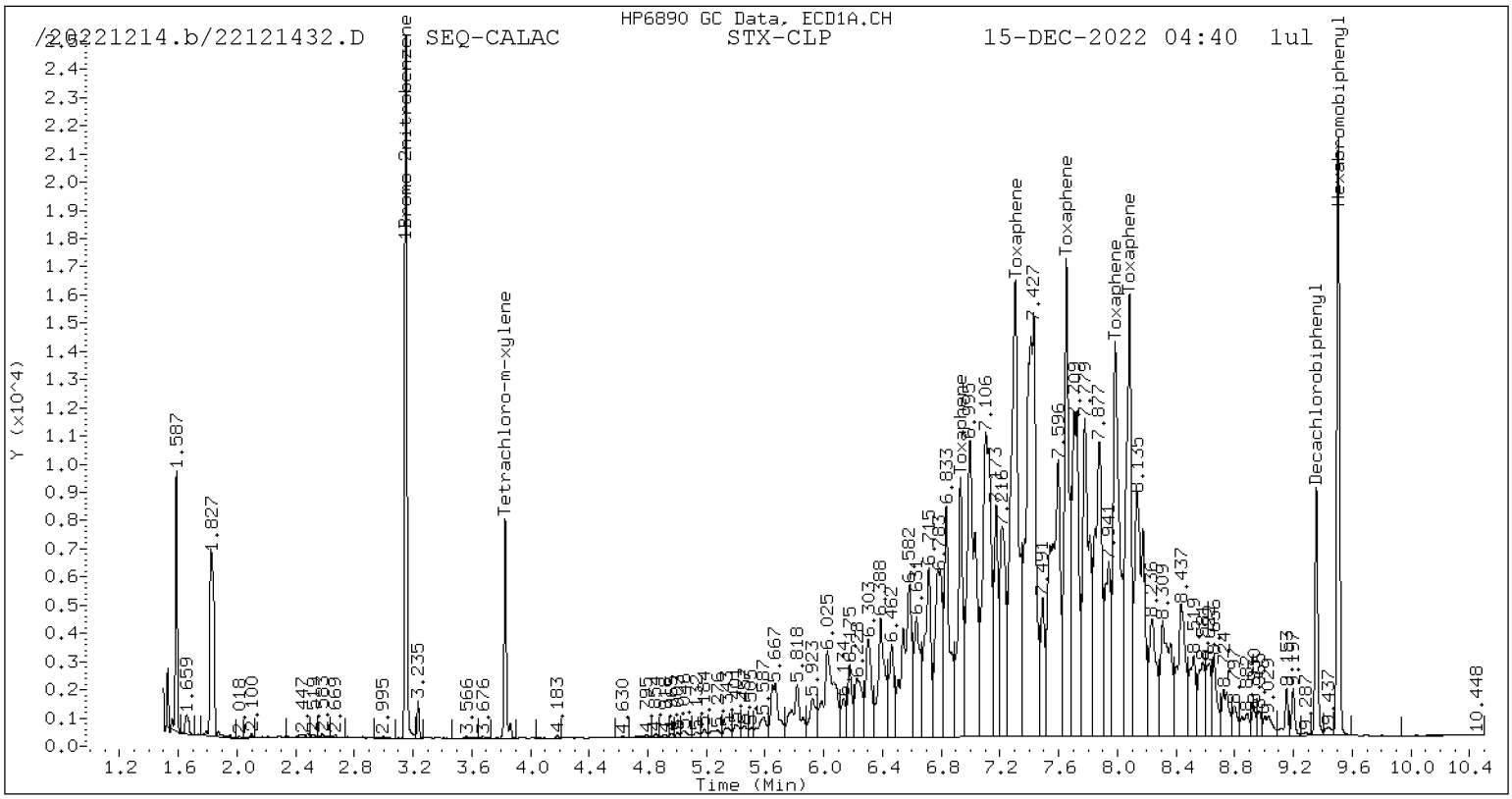
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1058848	1037593	-2.0
Hexabromobiphenyl	797125	750492	-5.9

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	STX-CLP Col					CLP2 Col				
Cpnd	Peak#	RT	Shift	Height	Amount	Peak#	RT	Shift	Height	Amount
Toxaphene	1	6.931	0.000	432250	2591.5	1	7.126	-0.000	358061	2539.5
Toxaphene	2	7.303	0.000	1180375	2524.1	2	7.553	0.000	785942	2479.1
Toxaphene	3	7.653	0.000	762221	2529.4	3	8.059	-0.000	602985	2498.7
Toxaphene	4	7.986	0.000	863552	2142.9	4	8.201	-0.001	1929083	2450.8
Toxaphene	5	8.082	0.000	777497	2554.3	5	8.958	-0.001	962132	2492.0

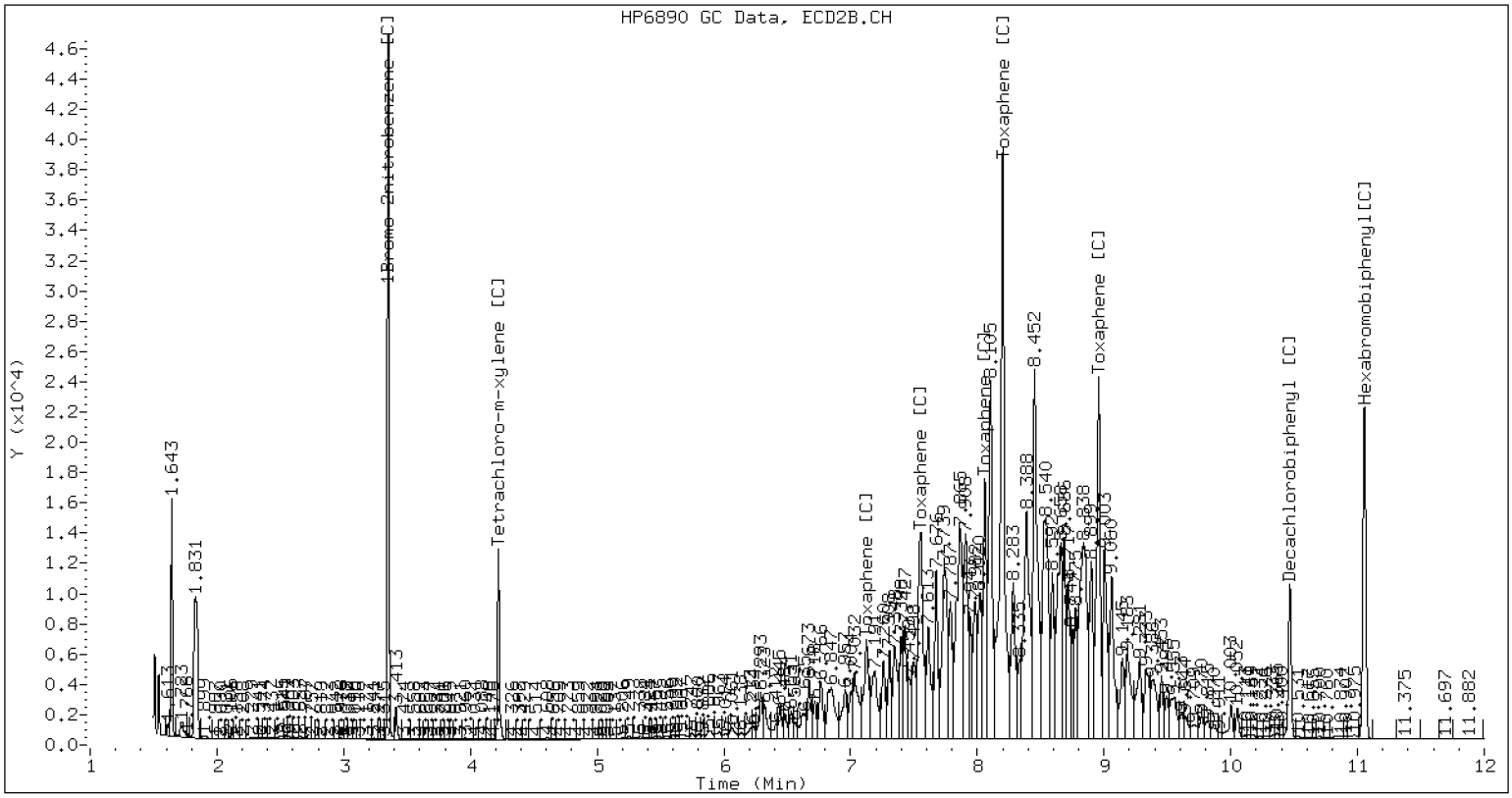
Total STX-CLPAve (5 peaks): 2468.427 Total CLP2Ave (5 peaks): 2492.024 RPD = 1
Corrected Ave (5 peaks): 2468.427 Corrected Ave (5 peaks): 2492.024 RPD = 1

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121432.D SEQ-CALAC CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121432.D
Data file 2: /20221214.b/B20221214.b/22121432.D
Method: \20221214.b\PEST.m
Compound Sublist: TOXAPH.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CALAC
Client ID:
Injection Date: 15-DEC-2022 04:40
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121433.D
Data file 2: /20221214.b/B20221214.b/22121433.D
Method: \20221214.b\PEST.m
Compound Sublist: TOXAPH.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CALAD
Client ID:
Injection Date: 15-DEC-2022 04:58
Report Date: 12/16/2022 15:20
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
3.828	-0.000	329284	4.221	0.000	536251	34.78	35.63	2.4	Tetrachloro-m-xylene
9.356	0.000	464116	10.466	-0.000	660536	76.95	77.19	0.3	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

˜ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	710650	696178	-2.0
Hexabromobiphenyl	641833	595287	-7.3

Column 2

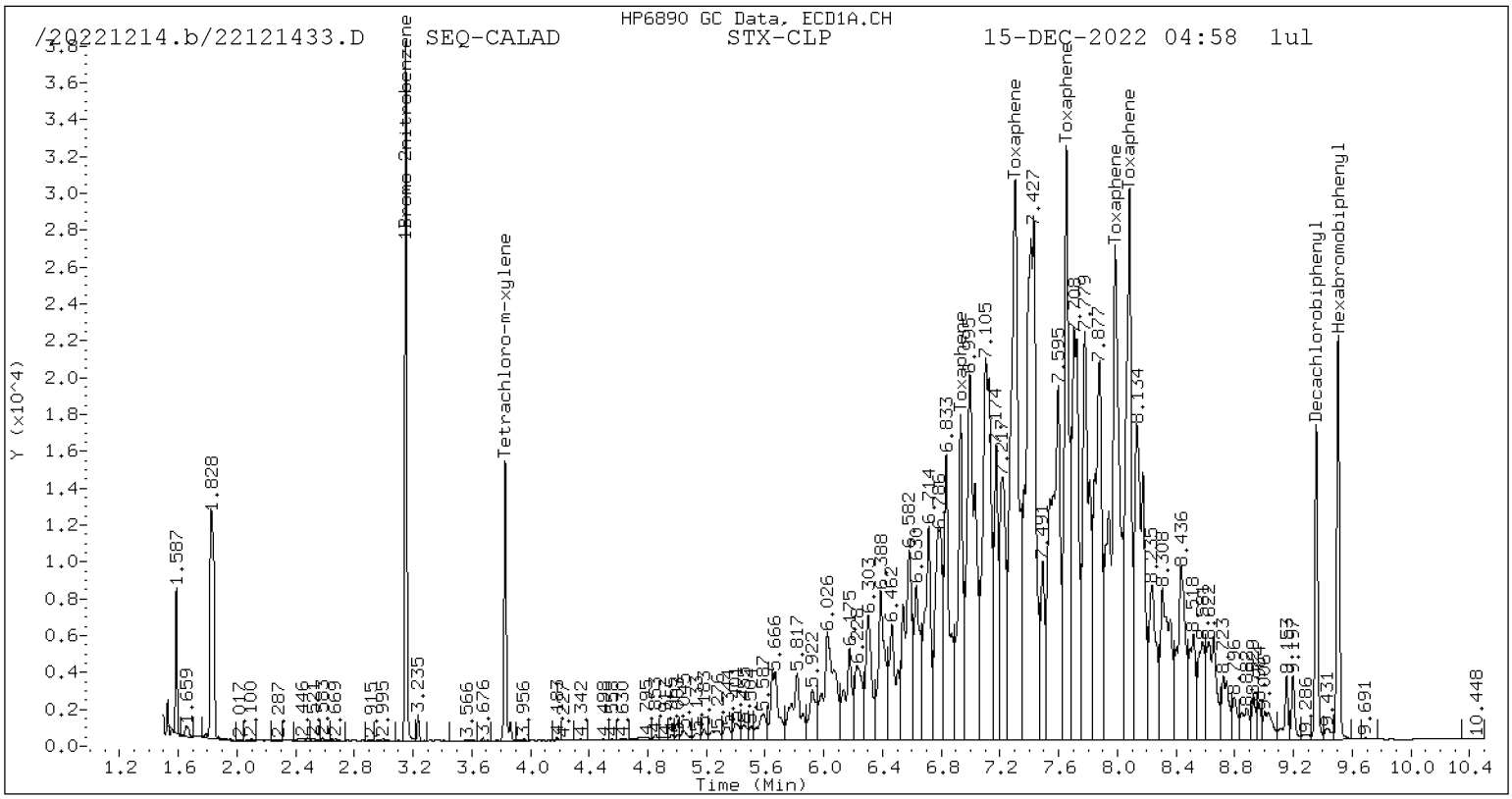
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1058848	1069205	1.0
Hexabromobiphenyl	797125	774218	-2.9

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	STX-CLP Col					CLP2 Col				
Cpnd	Peak#	RT	Shift	Height	Amount	Peak#	RT	Shift	Height	Amount
Toxaphene	1	6.931	0.000	828531	4765.6	1	7.126	-0.000	704213	4841.5
Toxaphene	2	7.303	-0.000	2275106	4667.4	2	7.554	0.000	1533921	4690.3
Toxaphene	3	7.653	-0.000	1493693	4755.4	3	8.059	-0.001	1192086	4788.5
Toxaphene	4	7.986	0.000	2318449	5519.5	4	8.201	-0.001	3835448	4723.4
Toxaphene	5	8.081	-0.000	1509568	4758.0	5	8.958	-0.000	1957568	4914.8

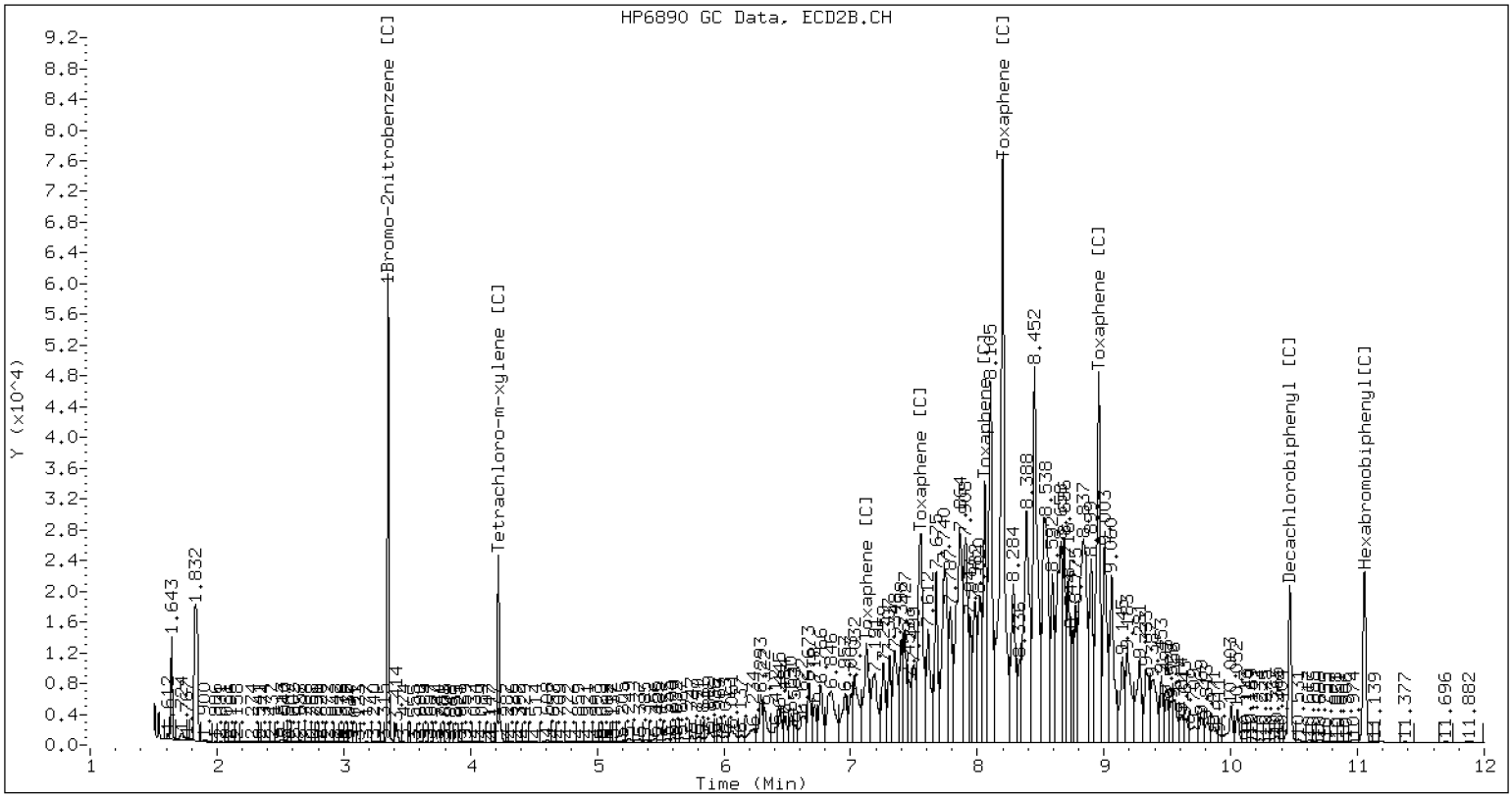
Total STX-CLPAve (5 peaks): 4893.192 Total CLP2Ave (5 peaks): 4791.694 RPD = 2
Corrected Ave (5 peaks): 4893.192 Corrected Ave (5 peaks): 4791.694 RPD = 2

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121433.D SEQ-CALAD CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121433.D
Data file 2: /20221214.b/B20221214.b/22121433.D
Method: \20221214.b\PEST.m
Compound Sublist: TOXAPH.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CALAD
Client ID:
Injection Date: 15-DEC-2022 04:58
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121434.D
Data file 2: /20221214.b/B20221214.b/22121434.D
Method: \20221214.b\PEST.m
Compound Sublist: TOXAPH.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CALAE
Client ID:
Injection Date: 15-DEC-2022 05:16
Report Date: 12/16/2022 15:20
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
3.828	-0.000	626937	4.221	0.000	1016753	65.66	67.54	2.8	Tetrachloro-m-xylene
9.355	0.000	899917	10.467	0.000	1293767	145.37	151.89	4.4	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	710650	702143	-1.2
Hexabromobiphenyl	641833	610983	-4.8

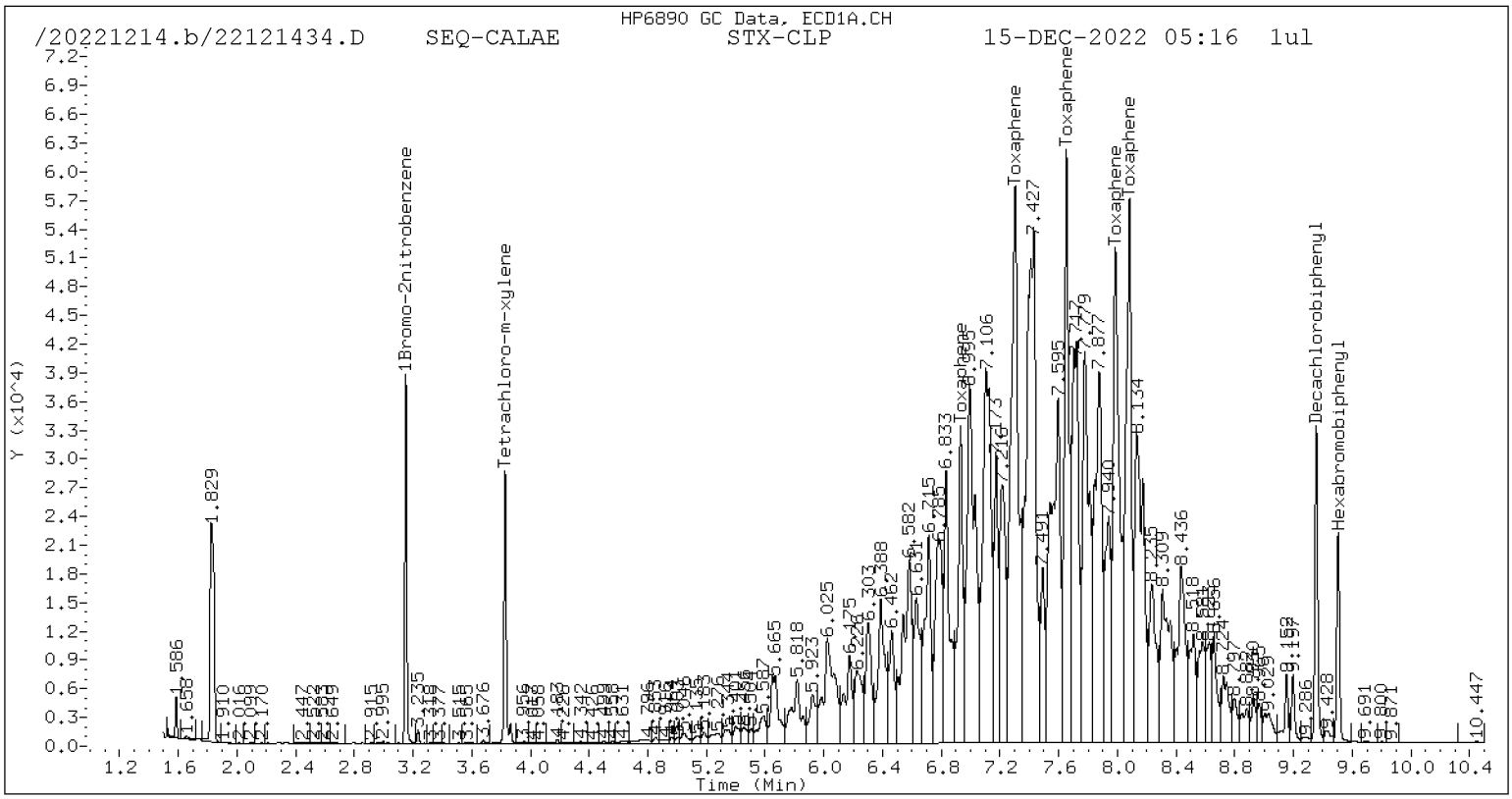
Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1058848	1069521	1.0
Hexabromobiphenyl	797125	770702	-3.3

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

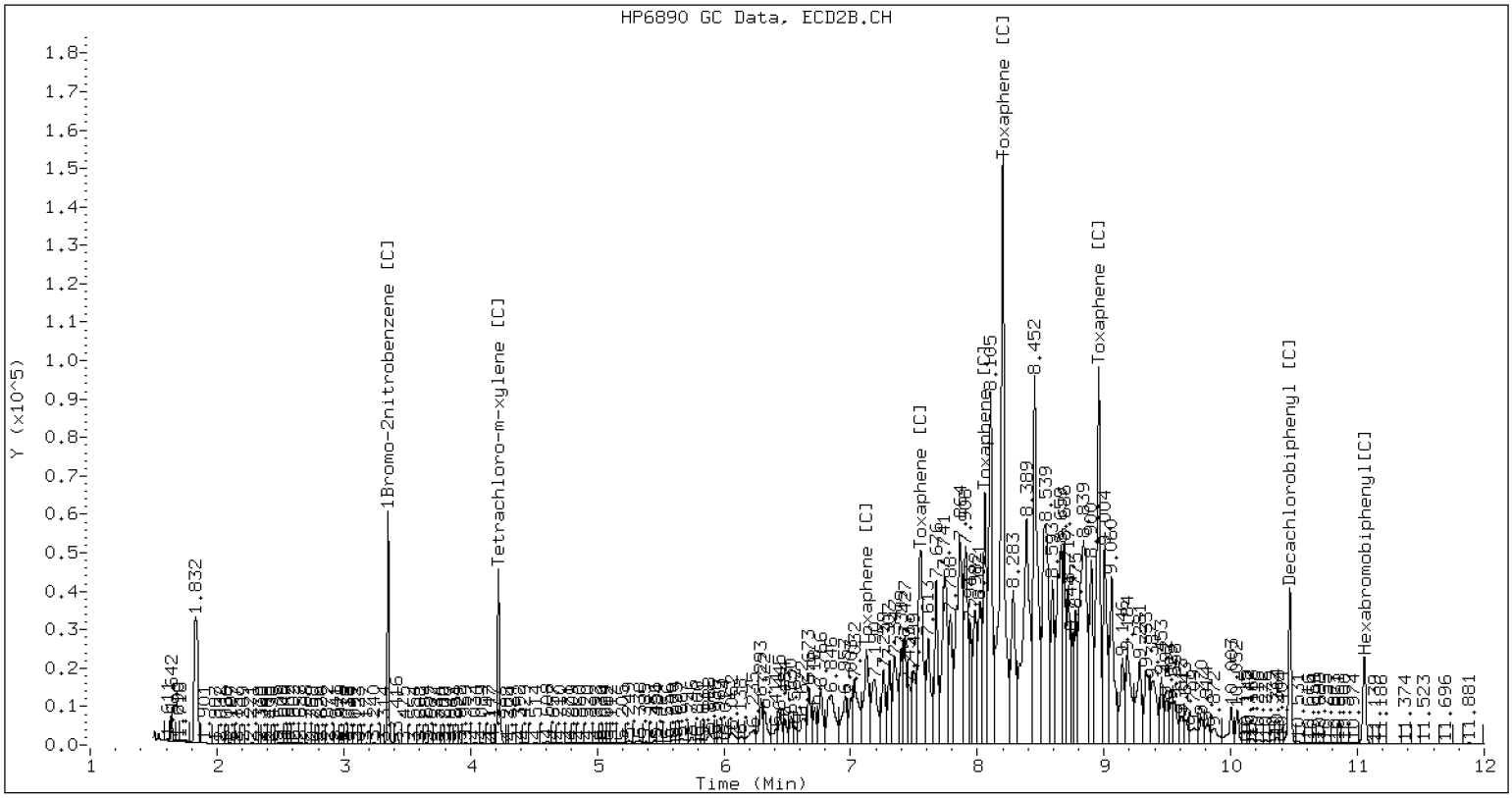
		STX-CLP Col					CLP2 Col				
Cpnd	Peak#	RT	Shift	Height	Amount	Peak#	RT	Shift	Height	Amount	
Toxaphene	1	6.931	0.000	1553785	8707.6	1	7.126	0.000	1336419	9229.8	
Toxaphene	2	7.303	-0.000	4216546	8428.1	2	7.553	0.000	2900195	8908.4	
Toxaphene	3	7.653	-0.000	2652265	8227.0	3	8.060	0.000	2299294	9278.2	
Toxaphene	4	7.987	0.001	3225164	7480.8	4	8.201	0.000	7496819	9274.6	
Toxaphene	5	8.082	-0.000	2882252	8851.2	5	8.959	0.000	3913616	9870.7	
Total STX-CLPAve (5 peaks): 8338.950						Total CLP2Ave (5 peaks): 9312.318				RPD = 11	
Corrected Ave (5 peaks): 8338.950						Corrected Ave (5 peaks): 9312.318				RPD = 11	

Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20221214.b/B20221214.b/22121434.D SEQ-CALAE CLP2



CLP-2 Manual Integration: NO

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20221214.b/22121434.D
Data file 2: /20221214.b/B20221214.b/22121434.D
Method: \20221214.b\PEST.m
Compound Sublist: TOXAPH.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CALAE
Client ID:
Injection Date: 15-DEC-2022 05:16
Report Date: 12/15/2022 09:09
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD6	Calibration:	FL00041
Lab File ID:	23032406.D	Calibration Date:	12/14/2022
Sequence:	SLC0442	Injection Date:	03/24/23
Lab Sample ID:	SLC0442-ICV1	Injection Time:	17:27
Sequence Name:	INDAE1		

		CONC. (ng/mL)		RESPONSE FACTOR			% DRIFT/DIFF		
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT	
alpha-BHC	A	20.000	17.5	1.5401480	1.3495940		-12.4	+/-20	
alpha-BHC [2C]	A	20.000	18.9	1.6032650	1.5174700		-5.4	+/-20	
beta-BHC	A	20.000	17.7	0.5929524	0.5253438		-11.4	+/-20	
beta-BHC [2C]	A	20.000	18.9	0.6095359	0.5773569		-5.3	+/-20	
gamma-BHC (Lindane)	A	20.000	17.8	1.3353400	1.1852260		-11.2	+/-20	
gamma-BHC (Lindane) [2C]	A	20.000	18.8	1.3606	1.2799590		-5.9	+/-20	
delta-BHC	A	20.000	16.9	1.2587440	1.0663720		-15.3	+/-20	
delta-BHC [2C]	A	20.000	11.2	1.3206240	0.7394749		-44.0	+/-20	*
Heptachlor	A	20.000	17.6	1.1881510	1.0458810		-12.0	+/-20	
Heptachlor [2C]	A	20.000	18.7	1.2325020	1.1507700		-6.6	+/-20	
Aldrin	A	20.000	17.0	1.3315350	1.1350550		-14.8	+/-20	
Aldrin [2C]	A	20.000	17.9	1.4072190	1.2626960		-10.3	+/-20	
Heptachlor Epoxide	A	20.000	17.6	1.1545300	1.0174650		-11.9	+/-20	
Heptachlor Epoxide [2C]	A	20.000	17.8	1.1636450	1.0365360		-10.9	+/-20	
trans-Chlordane (beta-Chlordane)	A	20.000	17.4	1.1726130	1.0212900		-12.9	+/-20	
trans-Chlordane (beta-Chlordane) [2C]	A	20.000	17.4	1.1604170	1.0101990		-12.9	+/-20	
cis-Chlordane (alpha-chlordane)	A	20.000	17.2	1.1760380	1.0139390		-13.8	+/-20	
cis-Chlordane (alpha-chlordane) [2C]	A	20.000	17.4	1.1352300	0.9861284		-13.1	+/-20	
Endosulfan I	A	20.000	18.1	1.0595170	0.9588982		-9.5	+/-20	
Endosulfan I [2C]	A	20.000	17.8	1.0256020	0.9118711		-11.1	+/-20	
4,4'-DDE	A	40.000	35.6	1.0568430	0.9393105		-11.1	+/-20	
4,4'-DDE [2C]	A	40.000	36.4	1.0391680	0.9449396		-9.1	+/-20	
Dieldrin	A	40.000	34.7	1.1382810	0.9880679		-13.2	+/-20	
Dieldrin [2C]	A	40.000	35.5	1.1331770	1.0053130		-11.3	+/-20	
Endrin	A	40.000	36.5	1.0488190	0.9581713		-8.6	+/-20	
Endrin [2C]	A	40.000	37.7	1.1374860	1.0727350		-5.7	+/-20	
Endosulfan II	A	40.000	40.6	0.9441550	0.9582318		1.5	+/-20	
Endosulfan II [2C]	A	40.000	38.0	1.1659380	1.1073660		-5.0	+/-20	
4,4'-DDD	A	40.000	40.7	0.9449058	0.9614335		1.7	+/-20	
4,4'-DDD [2C]	A	40.000	40.2	1.1064160	1.1105800		0.4	+/-20	

* Values outside of QC limits

INITIAL CALIBRATION CHECK
EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD6	Calibration:	FL00041
Lab File ID:	23032406.D	Calibration Date:	12/14/2022
Sequence:	SLC0442	Injection Date:	03/24/23
Lab Sample ID:	SLC0442-ICV1	Injection Time:	17:27
Sequence Name:	INDAE1		

		CONC. (ng/mL)		RESPONSE FACTOR			% DRIFT/DIFF		
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT	
Endrin Aldehyde	A	40.000	39.5	0.7530726	0.7445861		-1.1	+/-20	
Endrin Aldehyde [2C]	A	40.000	39.5	0.8224595	0.8114831		-1.3	+/-20	
4,4'-DDT	A	40.000	35.3	0.9548168	0.8427533		-11.7	+/-20	
4,4'-DDT [2C]	A	40.000	37.4	1.0678960	0.9992475		-6.4	+/-20	
Endosulfan Sulfate	A	40.000	38.7	0.8965158	0.8670636		-3.3	+/-20	
Endosulfan Sulfate [2C]	A	40.000	35.4	1.0238570	0.9067039		-11.4	+/-20	
Endrin Ketone	A	40.000	39.8	1.0270110	1.0226610		-0.4	+/-20	
Endrin Ketone [2C]	A	40.000	38.1	1.1058500	1.0529870		-4.8	+/-20	
Methoxychlor	A	200.00	196	0.4231113	0.4150813		-1.9	+/-20	
Methoxychlor [2C]	A	200.00	191	0.4725766	0.4504488		-4.7	+/-20	
Hexachlorobutadiene	A	20.000	12.2	1.6135150	0.9844472		-39.0	+/-20	*
Hexachlorobutadiene [2C]	A	20.000	9.22	1.5225100	0.7018004		-53.9	+/-20	*
Hexachlorobenzene	A	20.000	16.5	1.4298940	1.1806710		-17.4	+/-20	
Hexachlorobenzene [2C]	A	20.000	18.3	1.4591090	1.3387070		-8.3	+/-20	
Decachlorobiphenyl	A	40.000	34.2	0.8105886	0.6932014		-14.5	+/-20	
Decachlorobiphenyl [2C]	A	40.000	33.8	0.8841805	0.7481270		-15.4	+/-20	
Tetrachlorometaxylene	A	40.000	24.7	1.0879510	0.6719458		-38.2	+/-20	*
Tetrachlorometaxylene [2C]	A	40.000	35.6	1.1261070	1.0019880		-11.0	+/-20	

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230324.b/23032406.D
Data file 2: /20230324.b/B20230324.b/23032406.D
Method: \20230324.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-ICV1INDA1
Client ID:
Injection Date: 24-MAR-2023 17:27
Report Date: 03/28/2023 10:49
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
4.366	-0.008	171836	4.799	-0.010	240503	17.53	18.93	7.7	alpha-BHC
4.754	-0.008	66889	5.271	-0.010	91505	17.72	18.94	6.7	beta-BHC
4.939	-0.009	135775	5.621	-0.011	117199	16.94	11.20	40.8*	delta-BHC
4.672	-0.008	150908	5.191	-0.011	202860	17.75	18.81	5.8	gamma-BHC (Lindane)
5.162	-0.009	133166	5.714	-0.012	182385	17.61	18.67	5.9	Heptachlor
5.488	-0.010	144520	6.115	-0.012	200124	17.05	17.95	5.1	Aldrin
6.166	-0.010	129548	6.771	-0.011	164280	17.63	17.82	1.1	Heptachlor epoxide b
6.608	-0.010	122091	7.215	-0.012	144522	18.10	17.78	1.8	Endosulfan I
6.868	-0.010	251610	7.509	-0.011	318663	34.72	35.49	2.2	Dieldrin
6.532	-0.009	239194	7.300	-0.010	299526	35.55	36.37	2.3	4,4'-DDE
7.118	-0.009	205900	7.832	-0.012	241617	36.54	37.72	3.2	Endrin
7.356	-0.010	205913	8.043	-0.012	249417	40.60	37.99	6.6	Endosulfan II
7.179	-0.008	206601	7.905	-0.010	250141	40.70	40.15	1.4	4,4'-DDD
8.218	-0.008	186322	8.640	-0.010	204221	38.69	35.42	8.8	Endosulfan sulfate
7.470	-0.009	181098	8.222	-0.011	225065	35.31	37.43	5.8	4,4'-DDT
7.959	-0.007	445981	8.862	-0.011	507283	196.20	190.64	2.9	Methoxychlor
8.492	-0.009	219758	9.162	-0.012	237169	39.83	38.09	4.5	Endrin ketone
7.784	-0.009	160003	8.374	-0.011	182774	39.55	39.47	0.2	Endrin aldehyde
6.308	-0.011	130035	6.982	-0.012	160106	17.42	17.41	0.0	trans-Chlordane
6.454	-0.010	129099	7.142	-0.011	156291	17.24	17.37	0.8	cis-Chlordane
2.327	-0.006	125344	2.472	-0.006	111228	12.20	9.22	27.9	Hexachlorobutadiene
4.209	-0.008	150328	4.660	-0.010	212171	16.51	18.35	10.5	Hexachlorobenzene
3.848	-0.009	171110	4.169	-0.009	317609	24.70	35.59	36.1	Tetrachloro-m-xylene
9.407	-0.008	148961	10.360	-0.013	168504	34.21	33.84	1.1	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	672426	509297	-24.3
Hexabromobiphenyl	609723	429777	-29.5

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1006482	633958	-37.0
Hexabromobiphenyl	769764	450469	-41.5

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

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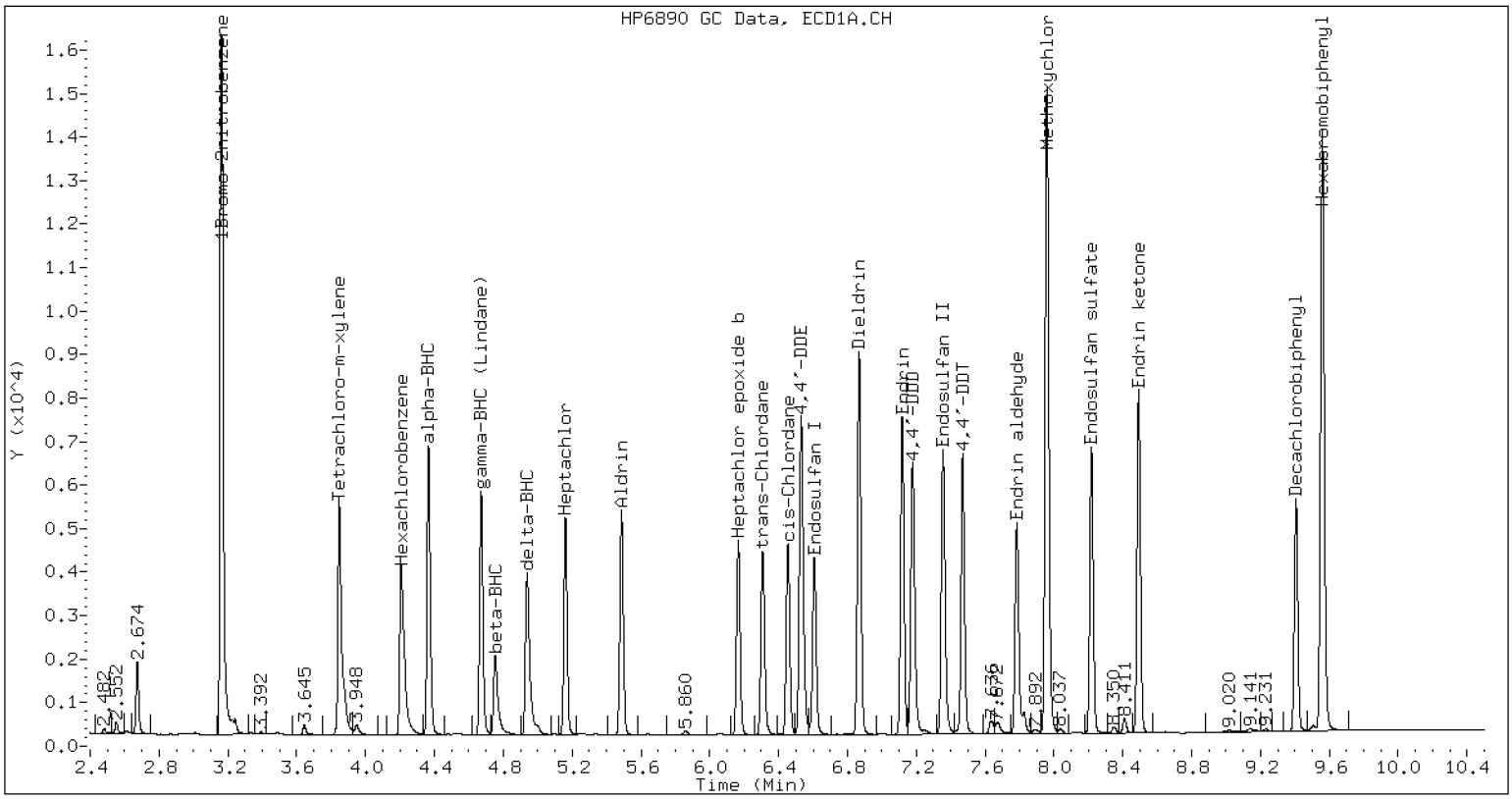

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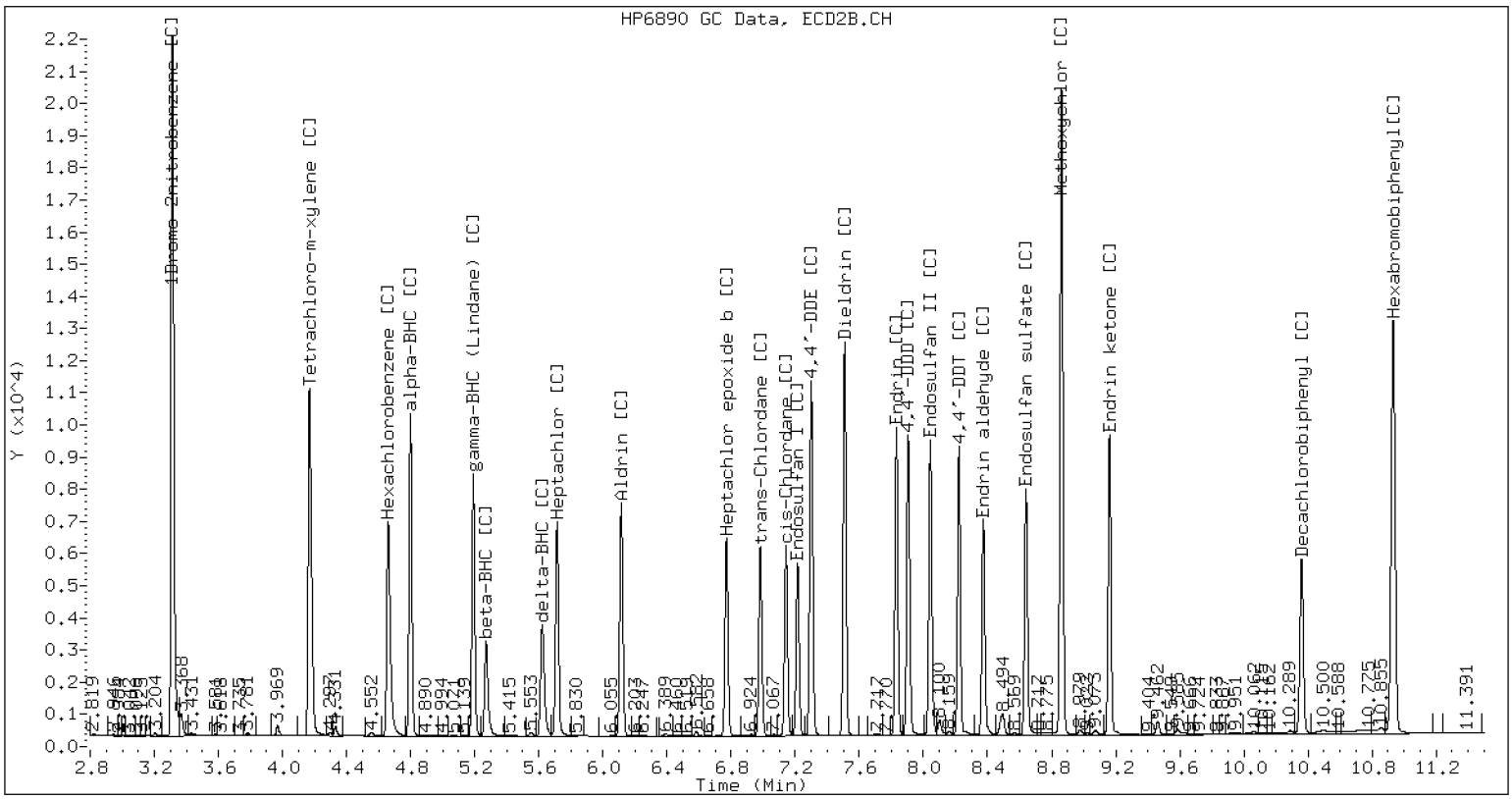
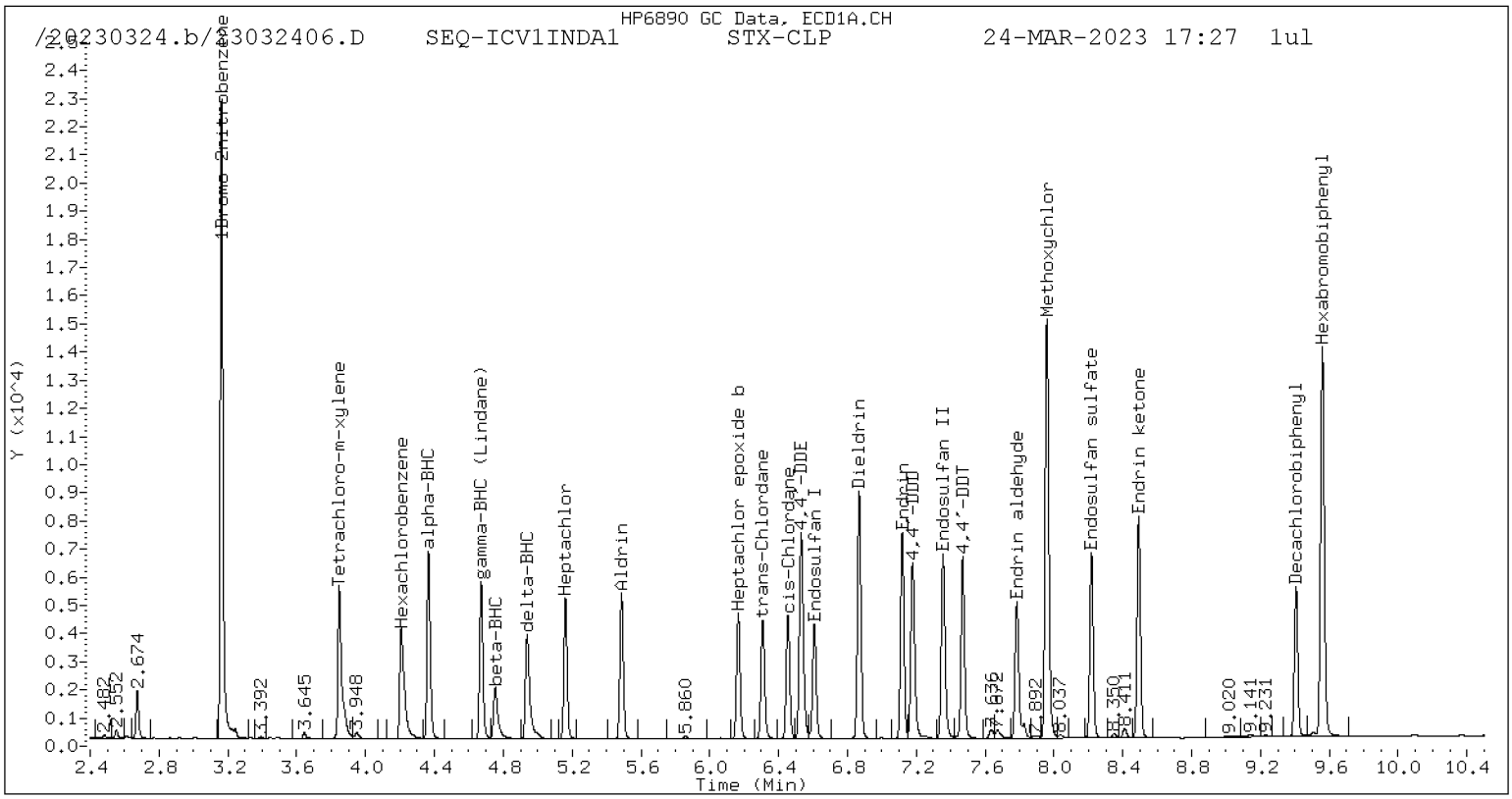


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

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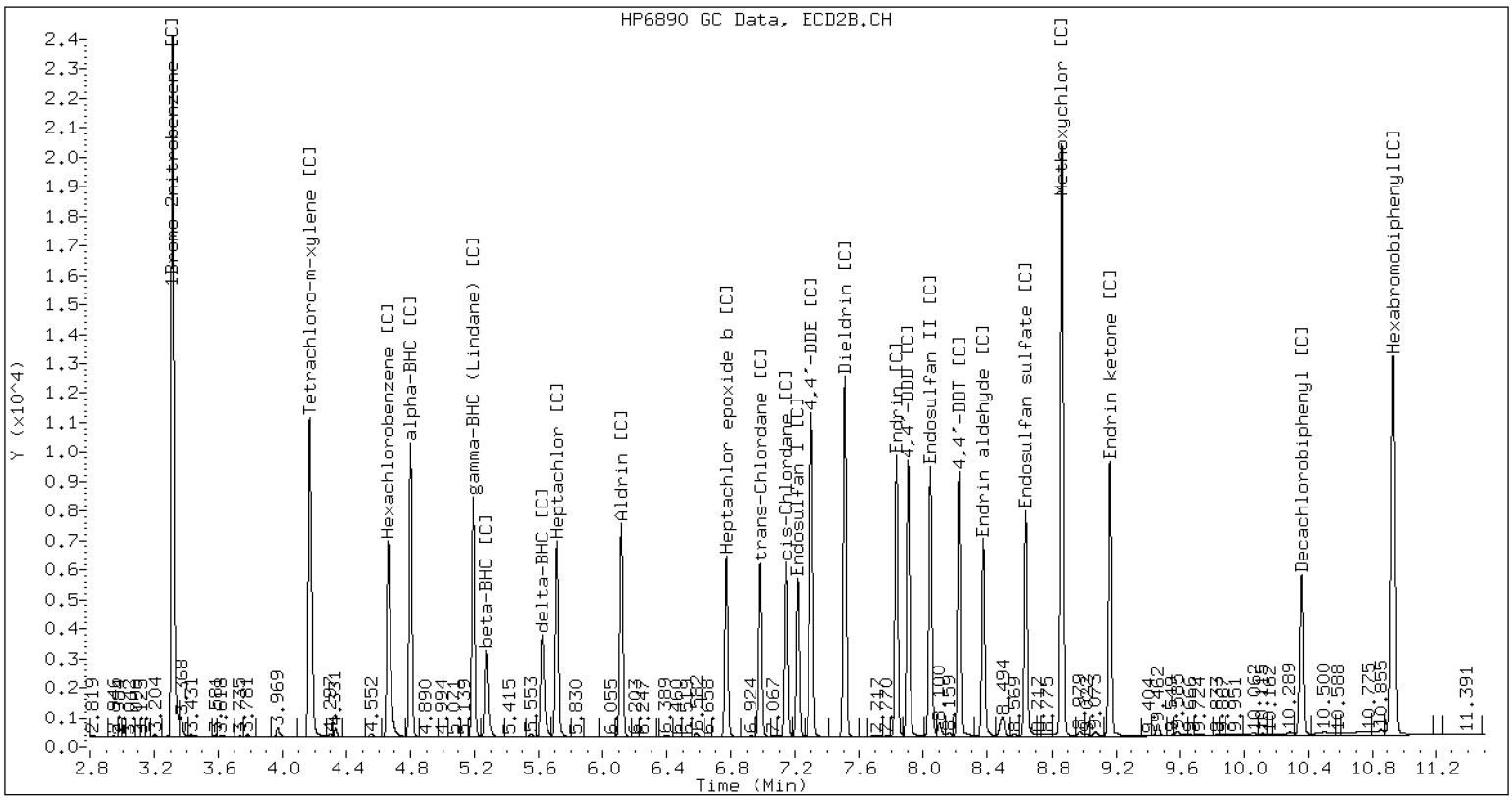

CLP-2 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD6	Calibration:	FL00041
Lab File ID:	23032423.D	Calibration Date:	12/14/2022
Sequence:	SLC0442	Injection Date:	03/24/23
Lab Sample ID:	SLC0442-CCV1	Injection Time:	22:31
Sequence Name:	INDAE2		

		CONC. (ng/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT	
alpha-BHC	A	20.000	17.6	1.5401480	1.3564650		-11.9	+/-20	
alpha-BHC [2C]	A	20.000	18.2	1.6032650	1.4624550		-8.8	+/-20	
beta-BHC	A	20.000	17.9	0.5929524	0.5301622		-10.6	+/-20	
beta-BHC [2C]	A	20.000	18.2	0.6095359	0.5557549		-8.8	+/-20	
gamma-BHC (Lindane)	A	20.000	17.8	1.3353400	1.1871720		-11.1	+/-20	
gamma-BHC (Lindane) [2C]	A	20.000	18.2	1.3606000	1.2371270		-9.1	+/-20	
delta-BHC	A	20.000	17.1	1.2587440	1.0787500		-14.3	+/-20	
delta-BHC [2C]	A	20.000	10.9	1.3206240	0.7212978		-45.4	+/-20	*
Heptachlor	A	20.000	17.7	1.1881510	1.0495540		-11.7	+/-20	
Heptachlor [2C]	A	20.000	18.4	1.2325020	1.1357770		-7.8	+/-20	
Aldrin	A	20.000	17.0	1.3315350	1.1317250		-15.0	+/-20	
Aldrin [2C]	A	20.000	17.3	1.4072190	1.2177560		-13.5	+/-20	
Heptachlor Epoxide	A	20.000	17.6	1.1545300	1.0150740		-12.1	+/-20	
Heptachlor Epoxide [2C]	A	20.000	17.2	1.1636450	0.9992371		-14.1	+/-20	
trans-Chlordane (beta-Chlordane)	A	20.000	17.4	1.1726130	1.0198940		-13.0	+/-20	
trans-Chlordane (beta-Chlordane) [2C]	A	20.000	16.9	1.1604170	0.9796599		-15.6	+/-20	
cis-Chlordane (alpha-chlordane)	A	20.000	17.3	1.1760380	1.0154690		-13.7	+/-20	
cis-Chlordane (alpha-chlordane) [2C]	A	20.000	16.6	1.1352300	0.9448063		-16.8	+/-20	
Endosulfan I	A	20.000	18.2	1.0595170	0.9630445		-9.1	+/-20	
Endosulfan I [2C]	A	20.000	17.4	1.0256020	0.8899572		-13.2	+/-20	
4,4'-DDE	A	40.000	35.4	1.0568430	0.9342246		-11.6	+/-20	
4,4'-DDE [2C]	A	40.000	35.1	1.0391680	0.9114196		-12.3	+/-20	
Dieldrin	A	40.000	34.5	1.1382810	0.9812878		-13.8	+/-20	
Dieldrin [2C]	A	40.000	34.4	1.1331770	0.9736654		-14.1	+/-20	
Endrin	A	40.000	31.5	1.0488190	0.8255884		-21.3	+/-20	*
Endrin [2C]	A	40.000	33.3	1.1374860	0.9472854		-16.7	+/-20	
Endosulfan II	A	40.000	42.2	0.9441550	0.9955324		5.4	+/-20	
Endosulfan II [2C]	A	40.000	39.4	1.1659380	1.1493820		-1.4	+/-20	
4,4'-DDD	A	40.000	40.7	0.9449058	0.9621766		1.8	+/-20	
4,4'-DDD [2C]	A	40.000	41.1	1.1064160	1.1355560		2.6	+/-20	
Endrin Aldehyde	A	40.000	42.1	0.7530726	0.7931454		5.3	+/-20	
Endrin Aldehyde [2C]	A	40.000	43.2	0.8224595	0.8885392		8.0	+/-20	
4,4'-DDT	A	40.000	35.5	0.9548168	0.8468807		-11.3	+/-20	

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD6	Calibration:	FL00041
Lab File ID:	23032423.D	Calibration Date:	12/14/2022
Sequence:	SLC0442	Injection Date:	03/24/23
Lab Sample ID:	SLC0442-CCV1	Injection Time:	22:31
Sequence Name:	INDAE2		

		CONC. (ng/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT	
4,4'-DDT [2C]	A	40.000	37.8	1.0678960	1.0101880		-5.4	+/-20	
Endosulfan Sulfate	A	40.000	38.6	0.8965158	0.8644485		-3.6	+/-20	
Endosulfan Sulfate [2C]	A	40.000	36.5	1.0238570	0.9347375		-8.7	+/-20	
Endrin Ketone	A	40.000	42.1	1.0270110	1.0811880		5.3	+/-20	
Endrin Ketone [2C]	A	40.000	40.7	1.1058500	1.1260760		1.8	+/-20	
Methoxychlor	A	200.00	195	0.4231113	0.4125185		-2.5	+/-20	
Methoxychlor [2C]	A	200.00	198	0.4725766	0.4672057		-1.1	+/-20	
Hexachlorobutadiene	A	20.000	12.3	1.6135150	0.9906284		-38.6	+/-20	*
Hexachlorobutadiene [2C]	A	20.000	8.95	1.5225100	0.6811006		-55.3	+/-20	*
Hexachlorobenzene	A	20.000	16.7	1.4298940	1.1952300		-16.4	+/-20	
Hexachlorobenzene [2C]	A	20.000	17.6	1.4591090	1.2840750		-12.0	+/-20	
Decachlorobiphenyl	A	40.000	34.3	0.8105886	0.6952154		-14.2	+/-20	
Decachlorobiphenyl [2C]	A	40.000	34.8	0.8841805	0.7702095		-12.9	+/-20	
Tetrachlorometaxylene	A	40.000	24.7	1.0879510	0.6708056		-38.3	+/-20	*
Tetrachlorometaxylene [2C]	A	40.000	34.1	1.1261070	0.9602771		-14.7	+/-20	

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230324.b/23032423.D
Data file 2: /20230324.b/B20230324.b/23032423.D
Method: \20230324.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CCV1INDA1
Client ID:
Injection Date: 24-MAR-2023 22:31
Report Date: 03/28/2023 10:50
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
4.366	-0.008	175066	4.799	-0.010	248235	17.61	18.24	3.5	alpha-BHC
4.754	-0.009	68423	5.271	-0.010	94333	17.88	18.24	2.0	beta-BHC
4.940	-0.008	139224	5.621	-0.011	122432	17.14	10.92	44.3*	delta-BHC
4.672	-0.009	153217	5.191	-0.011	209988	17.78	18.19	2.2	gamma-BHC (Lindane)
5.162	-0.009	135456	5.714	-0.012	192785	17.67	18.43	4.2	Heptachlor
5.488	-0.010	146061	6.115	-0.012	206700	17.00	17.31	1.8	Aldrin
6.165	-0.010	131006	6.771	-0.011	169609	17.58	17.17	2.4	Heptachlor epoxide b
6.608	-0.010	124291	7.215	-0.012	151060	18.18	17.35	4.6	Endosulfan I
6.868	-0.010	253291	7.508	-0.012	330537	34.48	34.37	0.3	Dieldrin
6.532	-0.009	241143	7.300	-0.010	309406	35.36	35.08	0.8	4,4'-DDE
7.118	-0.010	179989	7.831	-0.012	214931	31.49	33.31	5.6	Endrin
7.356	-0.010	217039	8.043	-0.012	260785	42.18	39.43	6.7	Endosulfan II
7.179	-0.008	209767	7.905	-0.010	257648	40.73	41.05	0.8	4,4'-DDD
8.218	-0.008	188461	8.639	-0.011	212084	38.57	36.52	5.5	Endosulfan sulfate
7.469	-0.010	184631	8.221	-0.011	229203	35.48	37.84	6.4	4,4'-DDT
7.958	-0.007	449672	8.861	-0.012	530025	194.99	197.73	1.4	Methoxychlor
8.492	-0.009	235713	9.161	-0.012	255497	42.11	40.73	3.3	Endrin ketone
7.784	-0.009	172916	8.373	-0.012	201602	42.13	43.21	2.5	Endrin aldehyde
6.308	-0.010	131628	6.982	-0.012	166286	17.40	16.88	3.0	trans-Chlordane
6.454	-0.010	131057	7.142	-0.011	160370	17.27	16.65	3.7	cis-Chlordane
2.327	-0.006	127851	2.472	-0.007	115609	12.28	8.95	31.4	Hexachlorobutadiene
4.209	-0.008	154257	4.660	-0.010	217957	16.72	17.60	5.1	Hexachlorobenzene
3.848	-0.009	173149	4.169	-0.009	325992	24.66	34.11	32.1	Tetrachloro-m-xylene
9.406	-0.009	151566	10.359	-0.014	174754	34.31	34.84	1.6	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	672426	516242	-23.2
Hexabromobiphenyl	609723	436026	-28.5

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1006482	678954	-32.5
Hexabromobiphenyl	769764	453783	-41.0

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

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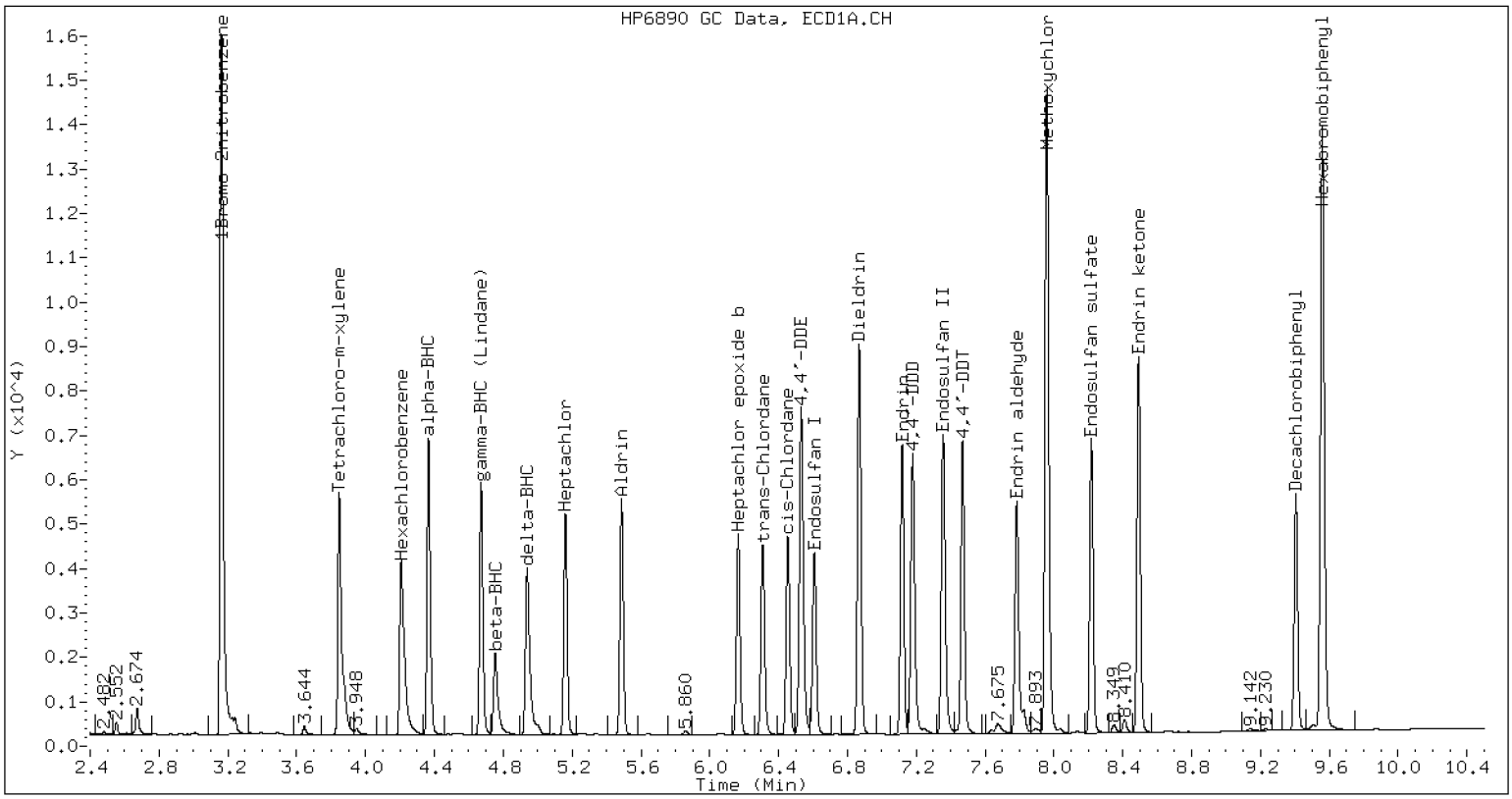

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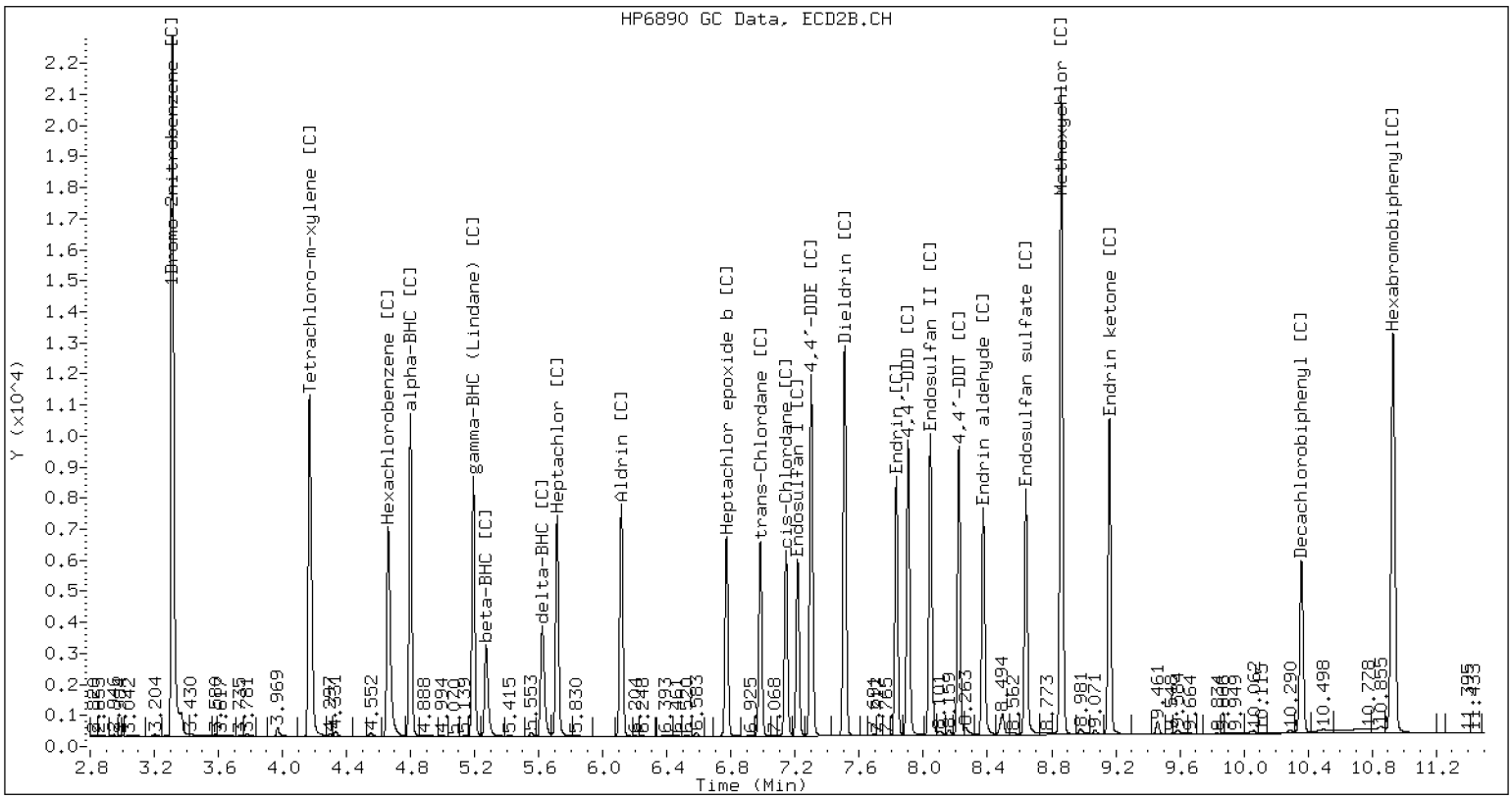
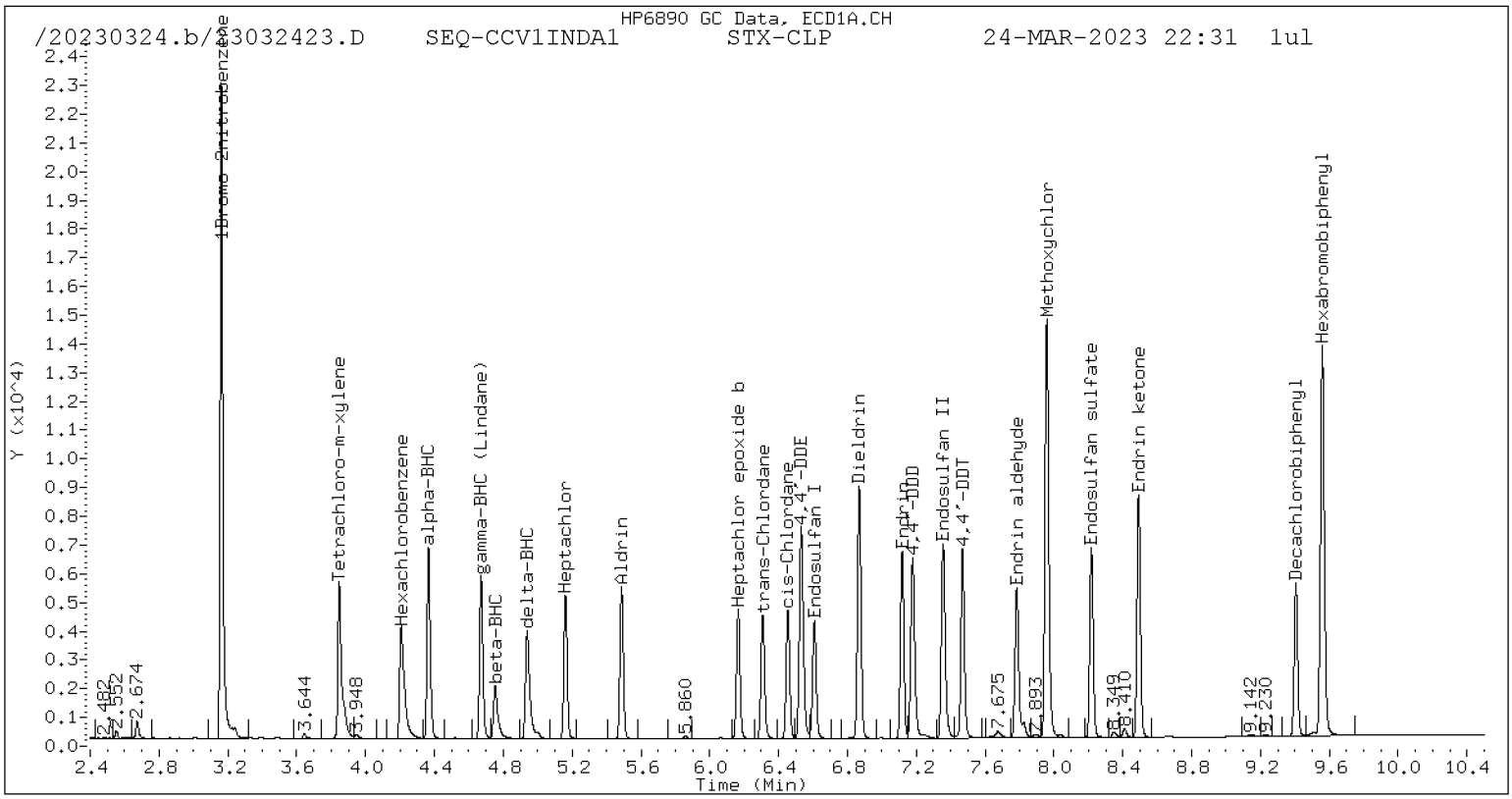
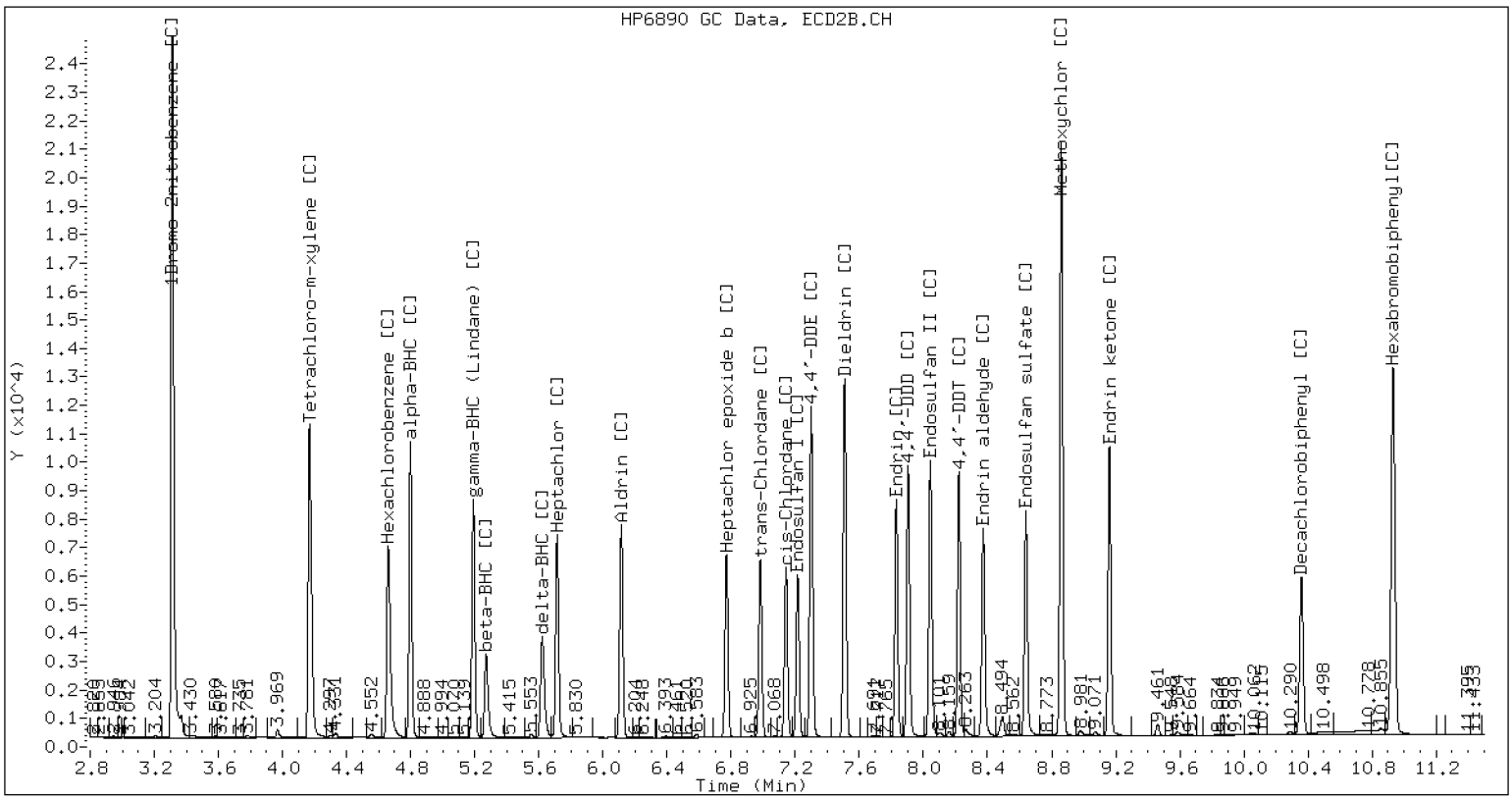


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20230324.b/B20230324.b/23032423.D SEQ-CCV1INDA1 CLP2



CLP-2 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD6	Calibration:	FL00041
Lab File ID:	23032438.D	Calibration Date:	12/14/2022
Sequence:	SLC0442	Injection Date:	03/25/23
Lab Sample ID:	SLC0442-CCV3	Injection Time:	03:00
Sequence Name:	INDAE3		

		CONC. (ng/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT	
alpha-BHC	A	20.000	17.1	1.5401480	1.3147550		-14.6	+/-20	
alpha-BHC [2C]	A	20.000	17.9	1.6032650	1.4378350		-10.3	+/-20	
beta-BHC	A	20.000	17.4	0.5929524	0.5148793		-13.2	+/-20	
beta-BHC [2C]	A	20.000	18.1	0.6095359	0.5517624		-9.5	+/-20	
gamma-BHC (Lindane)	A	20.000	17.4	1.3353400	1.1617250		-13.0	+/-20	
gamma-BHC (Lindane) [2C]	A	20.000	18.1	1.3606000	1.2293150		-9.6	+/-20	
delta-BHC	A	20.000	17.0	1.2587440	1.0673680		-15.2	+/-20	
delta-BHC [2C]	A	20.000	11.3	1.3206240	0.7492462		-43.3	+/-20	
Heptachlor	A	20.000	16.9	1.1881510	1.0025480		-15.6	+/-20	
Heptachlor [2C]	A	20.000	17.9	1.2325020	1.1010140		-10.7	+/-20	
Aldrin	A	20.000	16.2	1.3315350	1.0803300		-18.9	+/-20	
Aldrin [2C]	A	20.000	16.7	1.4072190	1.1769770		-16.4	+/-20	
Heptachlor Epoxide	A	20.000	16.6	1.1545300	0.9572563		-17.1	+/-20	
Heptachlor Epoxide [2C]	A	20.000	16.0	1.1636450	0.9287383		-20.2	+/-20	*
trans-Chlordane (beta-Chlordane)	A	20.000	16.2	1.1726130	0.9517793		-18.8	+/-20	
trans-Chlordane (beta-Chlordane) [2C]	A	20.000	15.6	1.1604170	0.9033729		-22.2	+/-20	*
cis-Chlordane (alpha-chlordane)	A	20.000	16.0	1.1760380	0.9415022		-19.9	+/-20	
cis-Chlordane (alpha-chlordane) [2C]	A	20.000	15.4	1.1352300	0.8746420		-23.0	+/-20	*
Endosulfan I	A	20.000	16.8	1.0595170	0.8905126		-16.0	+/-20	
Endosulfan I [2C]	A	20.000	15.5	1.0256020	0.7941010		-22.6	+/-20	*
4,4'-DDE	A	40.000	32.9	1.0568430	0.8681252		-17.9	+/-20	
4,4'-DDE [2C]	A	40.000	30.8	1.0391680	0.8001013		-23.0	+/-20	*
Dieldrin	A	40.000	32.2	1.1382810	0.9162166		-19.5	+/-20	
Dieldrin [2C]	A	40.000	30.1	1.1331770	0.8536457		-24.7	+/-20	*
Endrin	A	40.000	29.4	1.0488190	0.7704859		-26.5	+/-20	*
Endrin [2C]	A	40.000	26.7	1.1374860	0.7587246		-33.3	+/-20	*
Endosulfan II	A	40.000	44.0	0.9441550	1.0384940		10.0	+/-20	
Endosulfan II [2C]	A	40.000	37.2	1.1659380	1.0857300		-6.9	+/-20	
4,4'-DDD	A	40.000	42.5	0.9449058	1.0044680		6.3	+/-20	
4,4'-DDD [2C]	A	40.000	37.4	1.1064160	1.0331280		-6.6	+/-20	
Endrin Aldehyde	A	40.000	44.2	0.7530726	0.8329429		10.6	+/-20	
Endrin Aldehyde [2C]	A	40.000	42.6	0.8224595	0.8764021		6.6	+/-20	
4,4'-DDT	A	40.000	38.6	0.9548168	0.9205743		-3.6	+/-20	
4,4'-DDT [2C]	A	40.000	36.2	1.0678960	0.9669445		-9.5	+/-20	

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD6	Calibration:	FL00041
Lab File ID:	23032438.D	Calibration Date:	12/14/2022
Sequence:	SLC0442	Injection Date:	03/25/23
Lab Sample ID:	SLC0442-CCV3	Injection Time:	03:00
Sequence Name:	INDAE3		

		CONC. (ng/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT	
Endosulfan Sulfate	A	40.000	38.8	0.8965158	0.8690791		-3.1	+/-20	
Endosulfan Sulfate [2C]	A	40.000	38.7	1.0238570	0.9898957		-3.3	+/-20	
Endrin Ketone	A	40.000	42.7	1.0270110	1.0958470		6.7	+/-20	
Endrin Ketone [2C]	A	40.000	42.2	1.1058500	1.1680350		5.6	+/-20	
Methoxychlor	A	200.00	200	0.4231113	0.4239536		0.2	+/-20	
Methoxychlor [2C]	A	200.00	181	0.4725766	0.4280967		-9.4	+/-20	
Hexachlorobutadiene	A	20.000	12.2	1.6135150	0.9840405		-39.0	+/-20	*
Hexachlorobutadiene [2C]	A	20.000	9.58	1.5225100	0.7291018		-52.1	+/-20	*
Hexachlorobenzene	A	20.000	16.2	1.4298940	1.1550990		-19.2	+/-20	
Hexachlorobenzene [2C]	A	20.000	17.4	1.4591090	1.2674510		-13.1	+/-20	
Decachlorobiphenyl	A	40.000	33.4	0.8105886	0.6773737		-16.4	+/-20	
Decachlorobiphenyl [2C]	A	40.000	35.9	0.8841805	0.7925395		-10.4	+/-20	
Tetrachlorometaxylene	A	40.000	24.7	1.0879510	0.6724049		-38.2	+/-20	*
Tetrachlorometaxylene [2C]	A	40.000	34.3	1.1261070	0.9656858		-14.2	+/-20	

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230324.b/23032438.D
Data file 2: /20230324.b/B20230324.b/23032438.D
Method: \20230324.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CCV1INDA2
Client ID:
Injection Date: 25-MAR-2023 03:00
Report Date: 03/28/2023 10:50
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
4.366	-0.009	172835	4.798	-0.010	237113	17.07	17.94	4.9	alpha-BHC
4.754	-0.009	67685	5.271	-0.011	90991	17.37	18.10	4.2	beta-BHC
4.939	-0.009	140314	5.621	-0.011	123558	16.96	11.35	39.7	delta-BHC
4.671	-0.009	152718	5.191	-0.011	202726	17.40	18.07	3.8	gamma-BHC (Lindane)
5.161	-0.010	131793	5.713	-0.012	181568	16.88	17.87	5.7	Heptachlor
5.487	-0.010	142018	6.114	-0.013	194095	16.23	16.73	3.0	Aldrin
6.165	-0.011	125839	6.771	-0.012	153158	16.58	15.96	3.8	Heptachlor epoxide b
6.607	-0.010	117065	7.214	-0.013	130955	16.81	15.49	8.2	Endosulfan I
6.867	-0.011	240888	7.507	-0.013	281549	32.20	30.13	6.6	Dieldrin
6.531	-0.009	228244	7.299	-0.012	263889	32.86	30.80	6.5	4,4'-DDE
7.117	-0.011	147184	7.830	-0.013	156861	29.38	26.68	9.6	Endrin
7.355	-0.010	198381	8.042	-0.013	224467	44.00	37.25	16.6	Endosulfan II
7.178	-0.009	191881	7.904	-0.011	213592	42.52	37.35	12.9	4,4'-DDD
8.216	-0.010	166018	8.639	-0.012	204654	38.78	38.67	0.3	Endosulfan sulfate
7.469	-0.010	175855	8.221	-0.012	199909	38.57	36.22	6.3	4,4'-DDT
7.957	-0.008	404934	8.860	-0.012	442530	200.40	181.18	10.1	Methoxychlor
8.491	-0.010	209337	9.161	-0.012	241483	42.68	42.25	1.0	Endrin ketone
7.783	-0.010	159115	8.372	-0.013	181190	44.24	42.62	3.7	Endrin aldehyde
6.307	-0.011	125119	6.981	-0.013	148975	16.23	15.57	4.2	trans-Chlordane
6.453	-0.011	123768	7.142	-0.012	144237	16.01	15.41	3.8	cis-Chlordane
2.327	-0.006	129360	2.472	-0.006	120236	12.20	9.58	24.1	Hexachlorobutadiene
4.209	-0.008	151847	4.661	-0.009	209015	16.16	17.37	7.3	Hexachlorobenzene
3.848	-0.010	176786	4.169	-0.009	318502	24.72	34.30	32.5	Tetrachloro-m-xylene
9.405	-0.009	129397	10.358	-0.015	163852	33.43	35.85	7.0	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

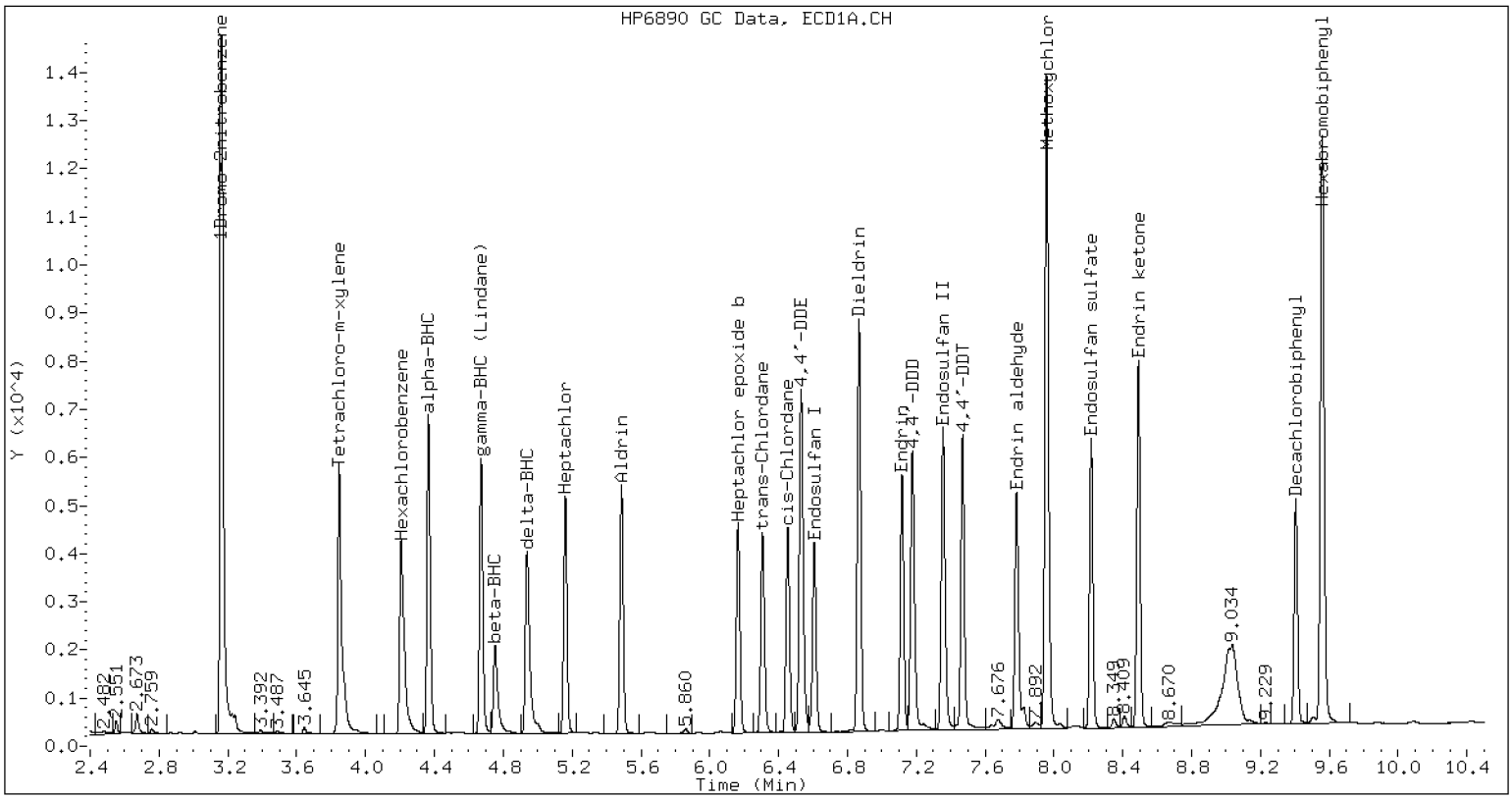
Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	672426	525832	-21.8
Hexabromobiphenyl	609723	382055	-37.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1006482	659639	-34.5
Hexabromobiphenyl	769764	413486	-46.3

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

/20230324.b/23032438.D SEQ-CCV1INDA2 STX-CLP 25-MAR-2023 03:00 1ul



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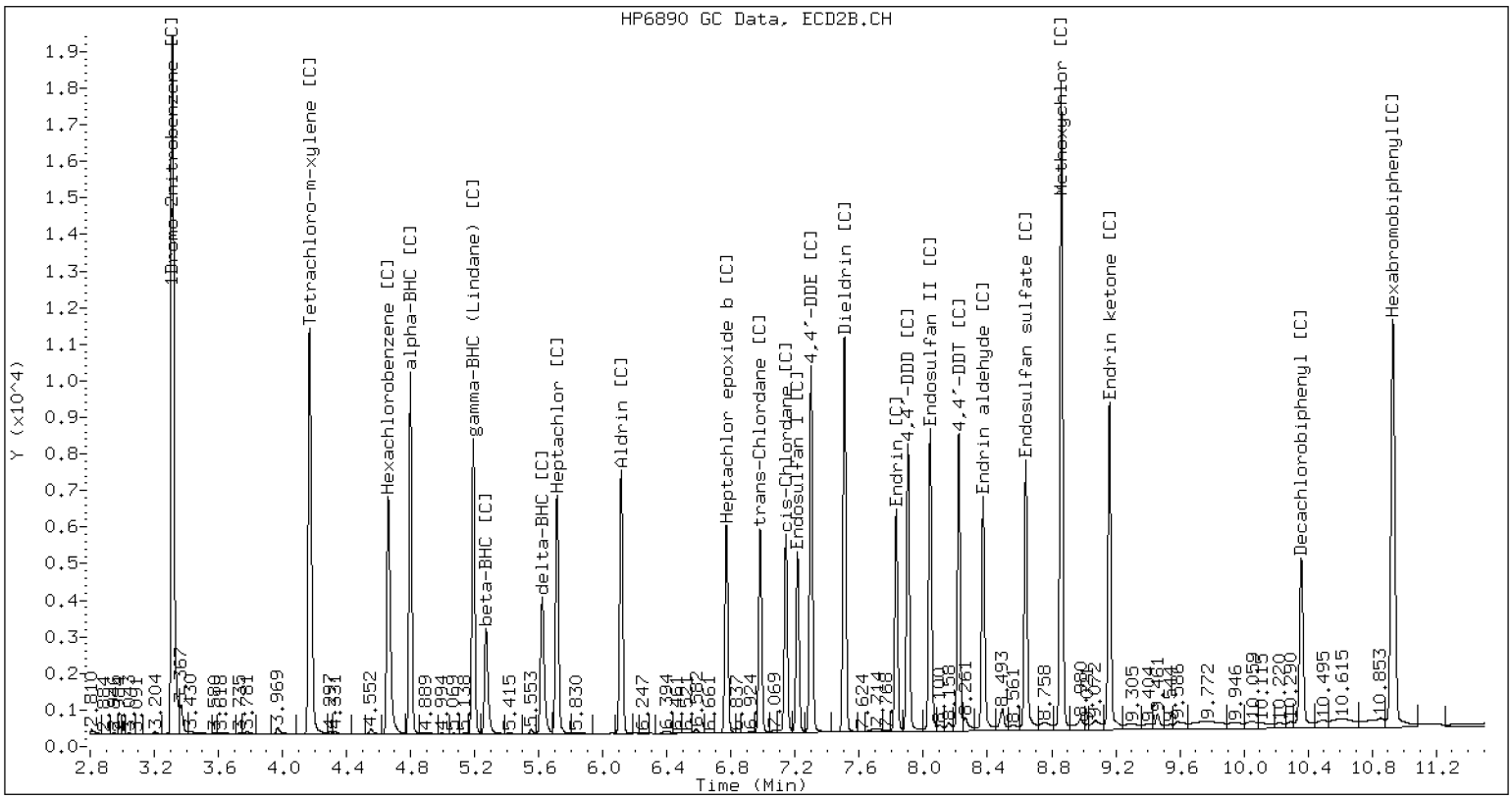
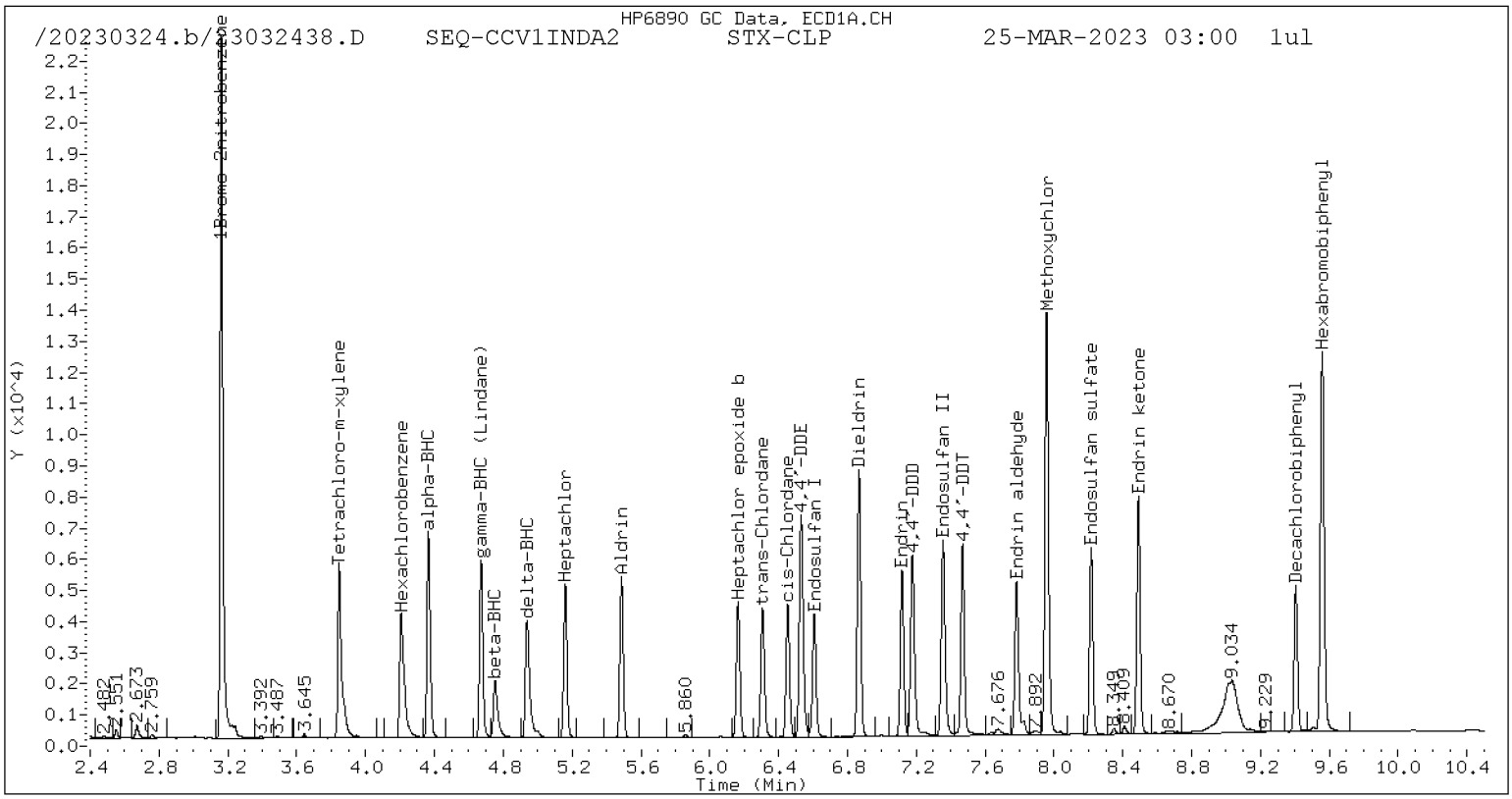
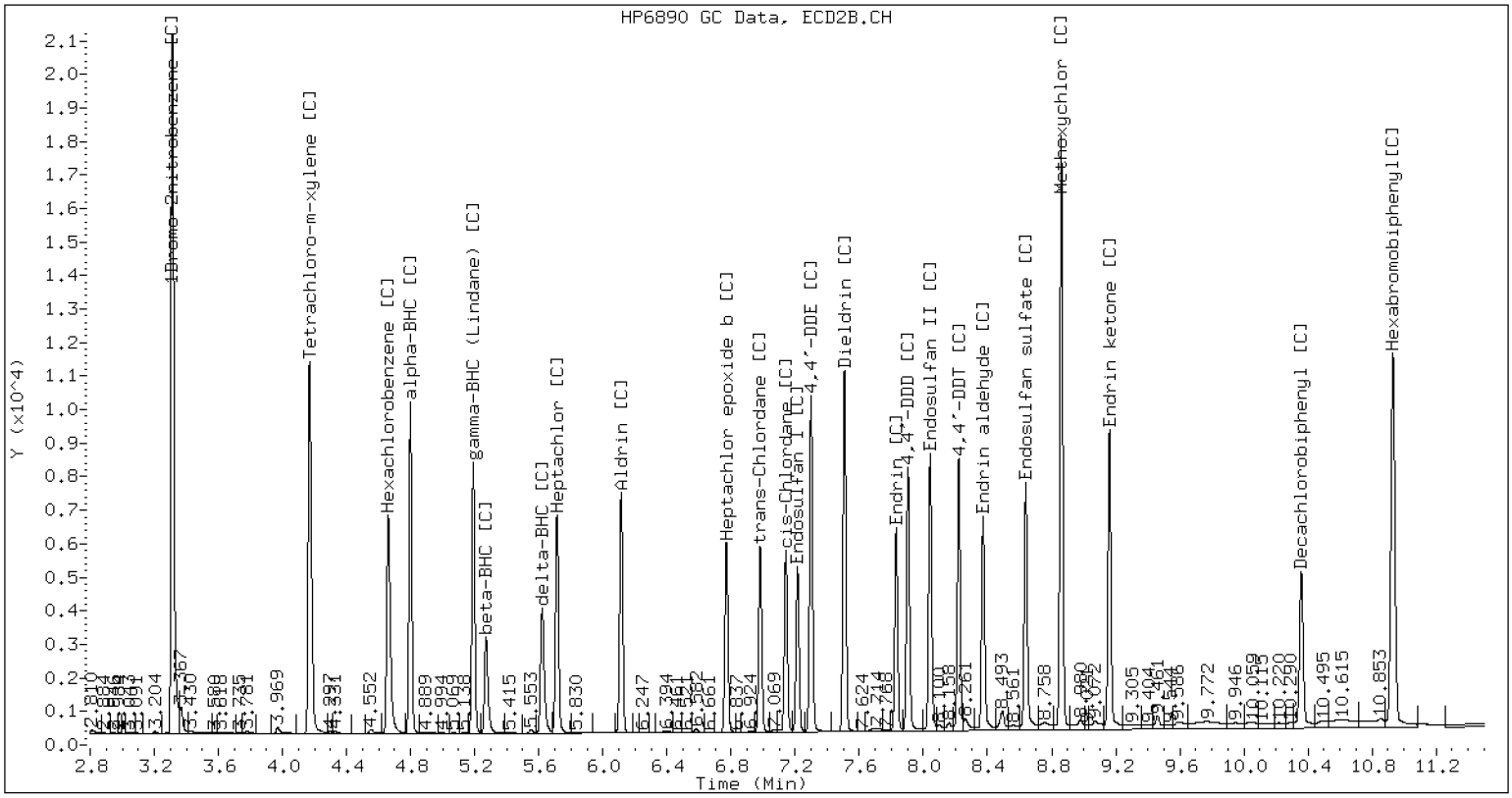


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

/20230324.b/B20230324.b/23032438.D SEQ-CCV1INDA2 CLP2



CLP-2 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD6	Calibration:	FL00041
Lab File ID:	23032458.D	Calibration Date:	12/14/2022
Sequence:	SLC0442	Injection Date:	03/25/23
Lab Sample ID:	SLC0442-CCV4	Injection Time:	08:58
Sequence Name:	INDAE4		

		CONC. (ng/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT	
alpha-BHC	A	20.000	17.5	1.5401480	1.3461410		-12.6	+/-20	
alpha-BHC [2C]	A	20.000	18.2	1.6032650	1.4561110		-9.2	+/-20	
beta-BHC	A	20.000	17.7	0.5929524	0.5250959		-11.4	+/-20	
beta-BHC [2C]	A	20.000	18.3	0.6095359	0.5569346		-8.6	+/-20	
gamma-BHC (Lindane)	A	20.000	17.8	1.3353400	1.1868020		-11.1	+/-20	
gamma-BHC (Lindane) [2C]	A	20.000	18.2	1.3606000	1.2375540		-9.0	+/-20	
delta-BHC	A	20.000	17.2	1.2587440	1.0809150		-14.1	+/-20	
delta-BHC [2C]	A	20.000	11.1	1.3206240	0.7357295		-44.3	+/-20	
Heptachlor	A	20.000	17.5	1.1881510	1.0414510		-12.3	+/-20	
Heptachlor [2C]	A	20.000	18.5	1.2325020	1.1380430		-7.7	+/-20	
Aldrin	A	20.000	17.1	1.3315350	1.1376350		-14.6	+/-20	
Aldrin [2C]	A	20.000	17.2	1.4072190	1.2128110		-13.8	+/-20	
Heptachlor Epoxide	A	20.000	17.6	1.1545300	1.0175590		-11.9	+/-20	
Heptachlor Epoxide [2C]	A	20.000	17.0	1.1636450	0.9901372		-14.9	+/-20	
trans-Chlordane (beta-Chlordane)	A	20.000	17.4	1.1726130	1.0202290		-13.0	+/-20	
trans-Chlordane (beta-Chlordane) [2C]	A	20.000	16.7	1.1604170	0.9692298		-16.5	+/-20	
cis-Chlordane (alpha-chlordane)	A	20.000	17.2	1.1760380	1.0115500		-14.0	+/-20	
cis-Chlordane (alpha-chlordane) [2C]	A	20.000	16.4	1.1352300	0.9334790		-17.8	+/-20	
Endosulfan I	A	20.000	18.1	1.0595170	0.9609939		-9.3	+/-20	
Endosulfan I [2C]	A	20.000	16.9	1.0256020	0.8676954		-15.4	+/-20	
4,4'-DDE	A	40.000	35.3	1.0568430	0.9339031		-11.6	+/-20	
4,4'-DDE [2C]	A	40.000	33.9	1.0391680	0.8808879		-15.2	+/-20	
Dieldrin	A	40.000	34.4	1.1382810	0.9788552		-14.0	+/-20	
Dieldrin [2C]	A	40.000	33.1	1.1331770	0.9386047		-17.2	+/-20	
Endrin	A	40.000	25.4	1.0488190	0.6647526		-36.6	+/-20	*
Endrin [2C]	A	40.000	25.0	1.1374860	0.7109666		-37.5	+/-20	*
Endosulfan II	A	40.000	43.2	0.9441550	1.0207980		8.1	+/-20	
Endosulfan II [2C]	A	40.000	38.8	1.1659380	1.1296070		-3.1	+/-20	
4,4'-DDD	A	40.000	40.9	0.9449058	0.9651514		2.1	+/-20	
4,4'-DDD [2C]	A	40.000	38.9	1.1064160	1.0773120		-2.6	+/-20	
Endrin Aldehyde	A	40.000	44.4	0.7530726	0.8359883		11.0	+/-20	
Endrin Aldehyde [2C]	A	40.000	44.2	0.8224595	0.9087417		10.5	+/-20	
4,4'-DDT	A	40.000	35.5	0.9548168	0.8475976		-11.2	+/-20	
4,4'-DDT [2C]	A	40.000	37.2	1.0678960	0.9919060		-7.1	+/-20	

* Values outside of QC limits

CONTINUING CALIBRATION CHECK

EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD6	Calibration:	FL00041
Lab File ID:	23032458.D	Calibration Date:	12/14/2022
Sequence:	SLC0442	Injection Date:	03/25/23
Lab Sample ID:	SLC0442-CCV4	Injection Time:	08:58
Sequence Name:	INDAE4		

		CONC. (ng/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT	
Endosulfan Sulfate	A	40.000	38.9	0.8965158	0.8727949		-2.6	+/-20	
Endosulfan Sulfate [2C]	A	40.000	37.4	1.0238570	0.9569664		-6.5	+/-20	
Endrin Ketone	A	40.000	43.4	1.0270110	1.1155130		8.6	+/-20	
Endrin Ketone [2C]	A	40.000	42.7	1.1058500	1.1811840		6.8	+/-20	
Methoxychlor	A	200.00	188	0.4231113	0.3986879		-5.8	+/-20	
Methoxychlor [2C]	A	200.00	185	0.4725766	0.4364399		-7.6	+/-20	
Hexachlorobutadiene	A	20.000	12.4	1.6135150	0.9988667		-38.1	+/-20	*
Hexachlorobutadiene [2C]	A	20.000	9.39	1.5225100	0.7149453		-53.0	+/-20	*
Hexachlorobenzene	A	20.000	16.5	1.4298940	1.1787920		-17.6	+/-20	
Hexachlorobenzene [2C]	A	20.000	17.5	1.4591090	1.2744370		-12.7	+/-20	
Decachlorobiphenyl	A	40.000	33.7	0.8105886	0.6824046		-15.8	+/-20	
Decachlorobiphenyl [2C]	A	40.000	33.4	0.8841805	0.7374973		-16.6	+/-20	
Tetrachlorometaxylene	A	40.000	25.0	1.0879510	0.6790788		-37.6	+/-20	*
Tetrachlorometaxylene [2C]	A	40.000	33.8	1.1261070	0.9519320		-15.5	+/-20	

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 8081 Pesticide Quantitation Report

Data file 1: /20230324.b/23032458.D
Data file 2: /20230324.b/B20230324.b/23032458.D
Method: \20230324.b\PEST.m
Compound Sublist: INDA.sub
Instrument, Inj. Vol.: ecd6.i, 1ul
Operator: JGR

ARI ID: SEQ-CCV1INDA3
Client ID:
Injection Date: 25-MAR-2023 08:58
Report Date: 03/28/2023 10:51
Units: ng/mL
Dilution Factor: 1.000

STX-CLP Col			CLP2 Col			STX-CLP	CLP2		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
4.364	-0.010	173418	0.000	-4.809	0	17.48	0.00	---	alpha-BHC
4.752	-0.011	67646	0.000	-5.281	0	17.71	0.00	---	beta-BHC
4.937	-0.011	139250	0.000	-5.632	0	17.17	0.00	---	delta-BHC
4.670	-0.011	152891	0.000	-5.202	0	17.78	0.00	---	gamma-BHC (Lindane)
5.159	-0.012	134166	0.000	-5.726	0	17.53	0.00	---	Heptachlor
5.485	-0.013	146557	0.000	-6.127	0	17.09	0.00	---	Aldrin
6.163	-0.013	131088	0.000	-6.782	0	17.63	0.00	---	Heptachlor epoxide b
6.605	-0.013	123801	0.000	-7.227	0	18.14	0.00	---	Endosulfan I
6.865	-0.013	252204	0.000	-7.520	0	34.40	0.00	---	Dieldrin
6.529	-0.011	240622	0.000	-7.310	0	35.35	0.00	---	4,4'-DDE
7.115	-0.013	143781	0.000	-7.843	0	25.35	0.00	---	Endrin
7.353	-0.013	220791	0.000	-8.055	0	43.25	0.00	---	Endosulfan II
7.176	-0.011	208755	0.000	-7.915	0	40.86	0.00	---	4,4'-DDD
8.214	-0.012	188779	0.000	-8.651	0	38.94	0.00	---	Endosulfan sulfate
7.466	-0.013	183329	0.000	-8.232	0	35.51	0.00	---	4,4'-DDT
7.955	-0.011	431166	0.000	-8.872	0	188.46	0.00	---	Methoxychlor
8.488	-0.013	241277	0.000	-9.173	0	43.45	0.00	---	Endrin ketone
7.780	-0.013	180818	0.000	-8.385	0	44.40	0.00	---	Endrin aldehyde
6.305	-0.013	131432	0.000	-6.994	0	17.40	0.00	---	trans-Chlordane
6.451	-0.013	130314	0.000	-7.154	0	17.20	0.00	---	cis-Chlordane
2.327	-0.007	128680	0.000	-2.478	0	12.38	0.00	---	Hexachlorobutadiene
4.207	-0.010	151859	0.000	-4.670	0	16.49	0.00	---	Hexachlorobenzene
3.846	-0.011	174966	0.000	-4.178	0	24.97	0.00	---	Tetrachloro-m-xylene
9.402	-0.012	147599	0.000	-10.373	0	33.67	0.00	---	Decachlorobiphenyl

* Indicates RPD > 40%
A Indicates Peak Height was used for Column 1 quantitation instead of Area
B Indicates Peak Height was used for Column 2 quantitation instead of Area
M Indicates Column 1 peak was manually integrated
N Indicates Column 2 peak was manually integrated

~ Indicates recovery outside QC Limits

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	672426	515304	-23.4
Hexabromobiphenyl	609723	432585	-29.1

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	1006482	0	-100.0 <-
Hexabromobiphenyl	769764	0	-100.0 <-

* Standard Areas taken from Initial Cal Level 5
Initial Calibration Date: 14-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

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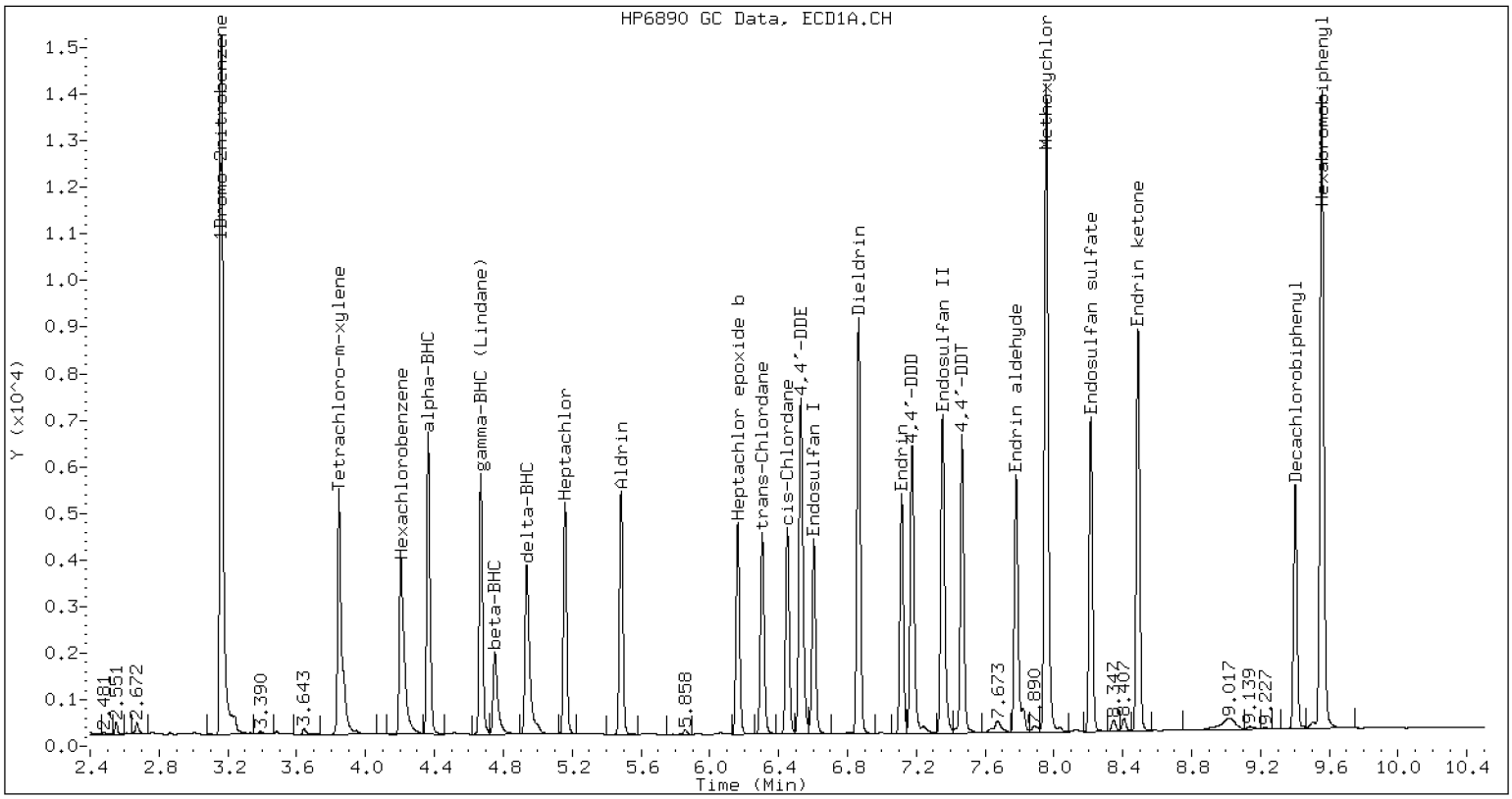

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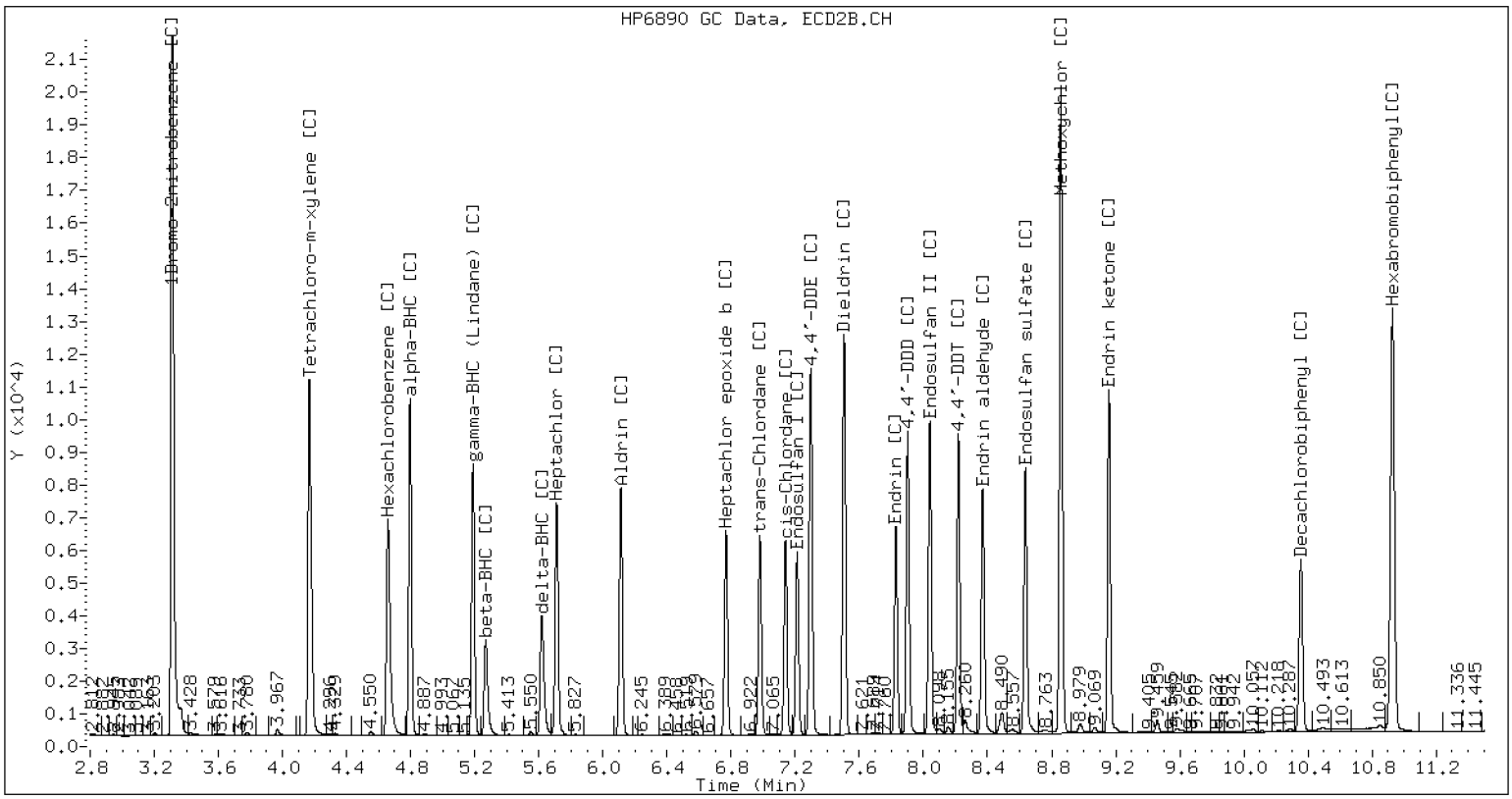
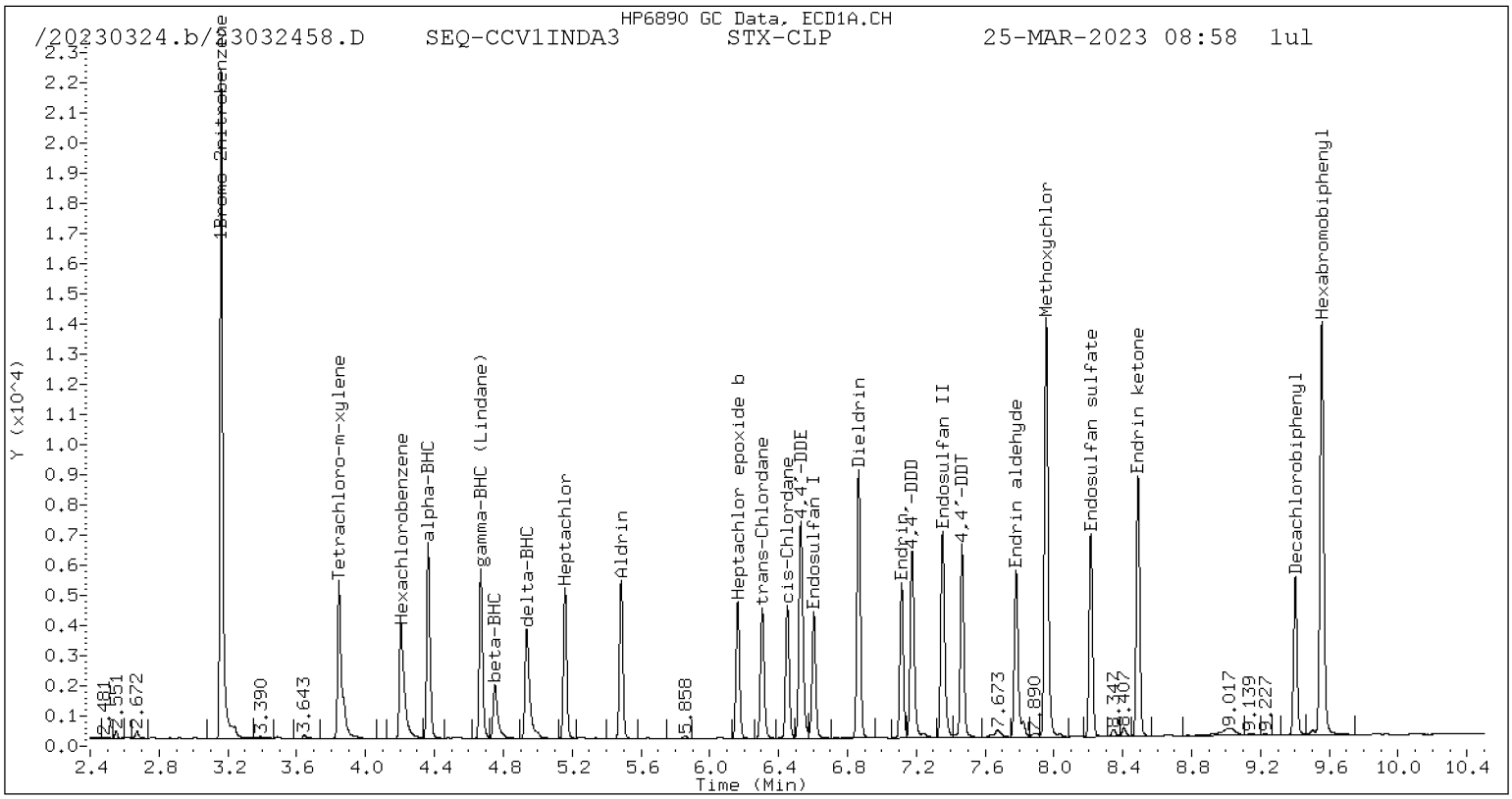


Pesticide Dual Column Chromatograms



STX-CLP Manual Integration: NO

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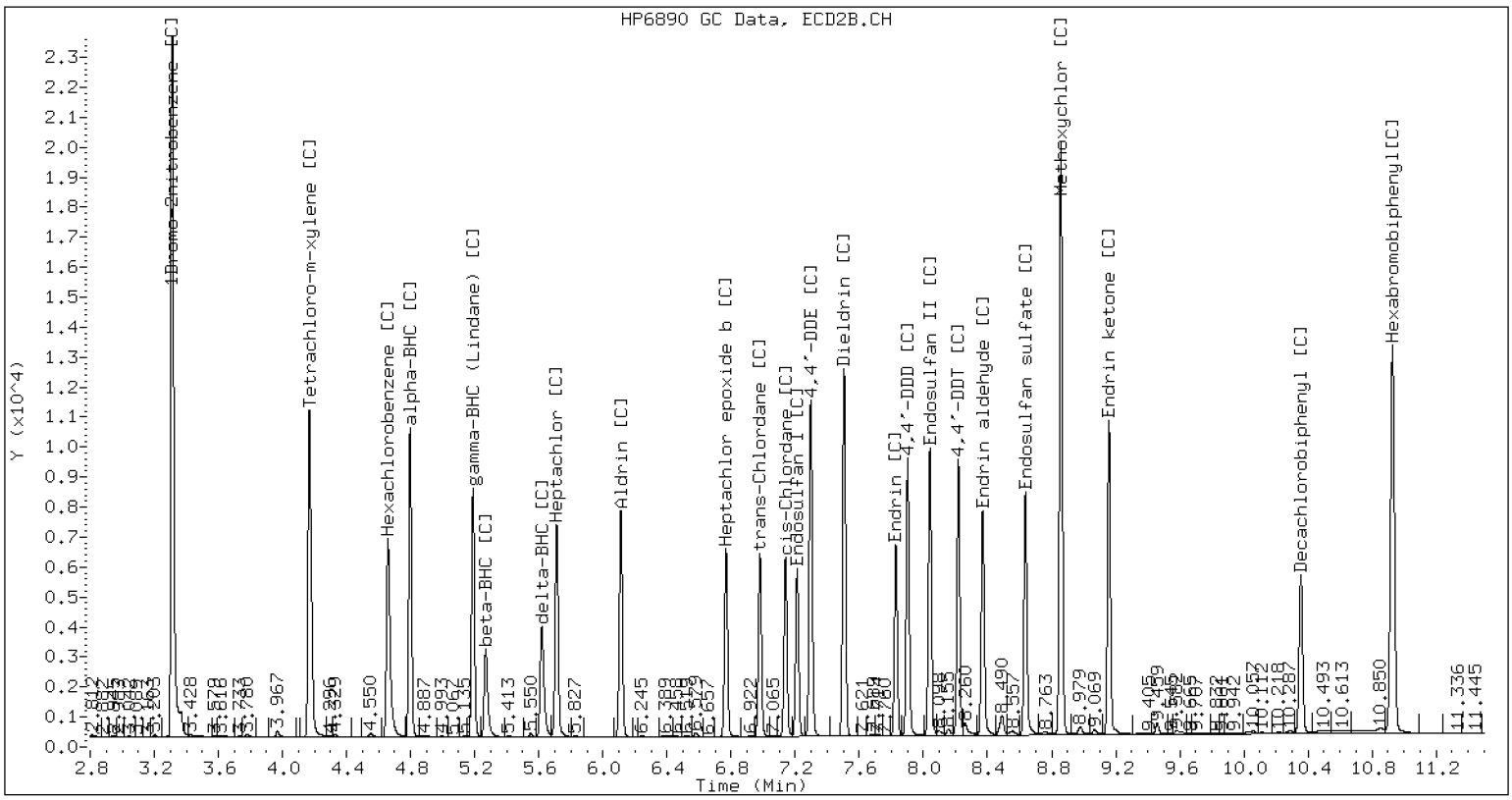

CLP-2 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

PERFORMANCE EVAUATION DATA SHEET

DS1

EPA 8081B

Laboratory:	Analytical Resources, LLC	Laboratory ID:	SKL0233-PEM1	File ID:	22121404.D
Client:	Anchor QEA, LLC	Matrix:	Water	Instrument:	ECD6
Project:	AOC5 MR Phase 1	Analyzed:	12/14/2022	Sequence:	SKL0233
SDG:	23C0071	Calibration:	FL00041	Column:	1

PEM COMPOUND	RT	Response
4,4'-DDE	6.49	6258
Endrin	7.08	745471
4,4'-DDD	7.14	15566
Endrin Aldehyde	7.75	21328
4,4'-DDT	7.43	629664
Endrin Ketone	8.45	19276

4,4'-DDT %Breakdown (1): 3.3

Endrin %Breakdown (1): 5.2

Analytical Resources, LLC
Analytical Chemists and Consultants

PERFORMANCE EVAUATION DATA SHEET

DS1

EPA 8081B

Laboratory:	Analytical Resources, LLC	Laboratory ID:	SKL0233-PEM1	File ID:	22121404.D
Client:	Anchor QEA, LLC	Matrix:	Water	Instrument:	ECD6
Project:	AOC5 MR Phase 1	Analyzed:	12/14/2022	Sequence:	SKL0233
SDG:	23C0071	Calibration:	FL00041	Column:	2

PEM COMPOUND	RT	Response
4,4'-DDE	7.37	11906
Endrin	7.91	1029194
4,4'-DDD	7.98	32697
Endrin Aldehyde	8.45	31426
4,4'-DDT	8.30	890195
Endrin Ketone	9.24	28268

4,4'-DDT %Breakdown (1): 4.8

Endrin %Breakdown (1): 5.5

7E

8081 DDT/ENDRIN BREAKDOWN VERIFICATION SUMMARY

Lab ID: SEQ-PEM1 InstID,Data File: ecd6.i, 22121404.D

Analysis Date: 14-DEC-2022 20:20 Init. Calib. Date: 14-DEC-2022

GC Column: STX-CLP1 ID: 0.53(mm)

COMPOUND	RT	AREA
1Bromo-2nitrobenzene	3.151	683485
4,4'-DDE	6.490	6258
Endrin	7.082	745471
4,4'-DDD	7.136	15566
4,4'-DDT	7.428	629664
Endrin ketone	8.453	19276
Endrin aldehyde	7.747	21328
Hexabromobiphenyl	9.504	619012
Tetrachloro-m-xylene	3.828	1161664
Decachlorobiphenyl	9.355	833312

DDT Percent Breakdown = 3.3 %
((6258+15566) * 100)/(6258+15566+629664)

Endrin Percent Breakdown = 5.2 %
((21328+19276) * 100)/(21328+19276+745471)

GC Column: STX-CLP2 ID: 0.53(mm)

COMPOUND	RT	AREA
1Bromo-2nitrobenzene [C]	3.350	1005375
4,4'-DDE [C]	7.370	11906
Endrin [C]	7.907	1029194
4,4'-DDD [C]	7.977	32697
4,4'-DDT [C]	8.295	890195
Endrin ketone [C]	9.239	28268
Endrin aldehyde [C]	8.448	31426
Hexabromobiphenyl[C]	11.054	772586
Tetrachloro-m-xylene [C]	4.220	1890294
Decachlorobiphenyl [C]	10.467	1140978

DDT Percent Breakdown = 4.8 %
((11906+32697) * 100)/(11906+32697+890195)

Endrin Percent Breakdown = 5.5 %
((31426+28268) * 100)/(31426+28268+1029194)

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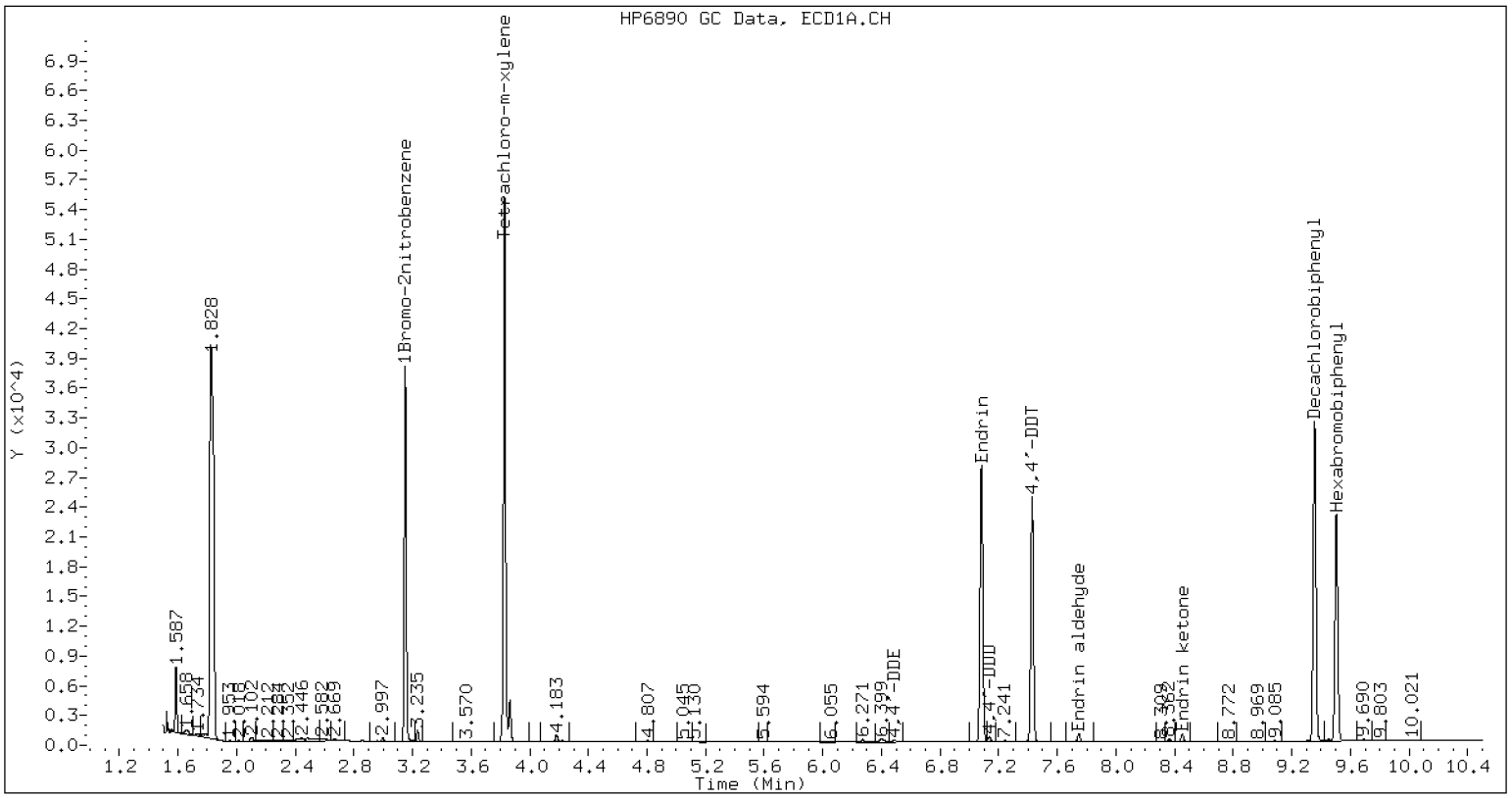

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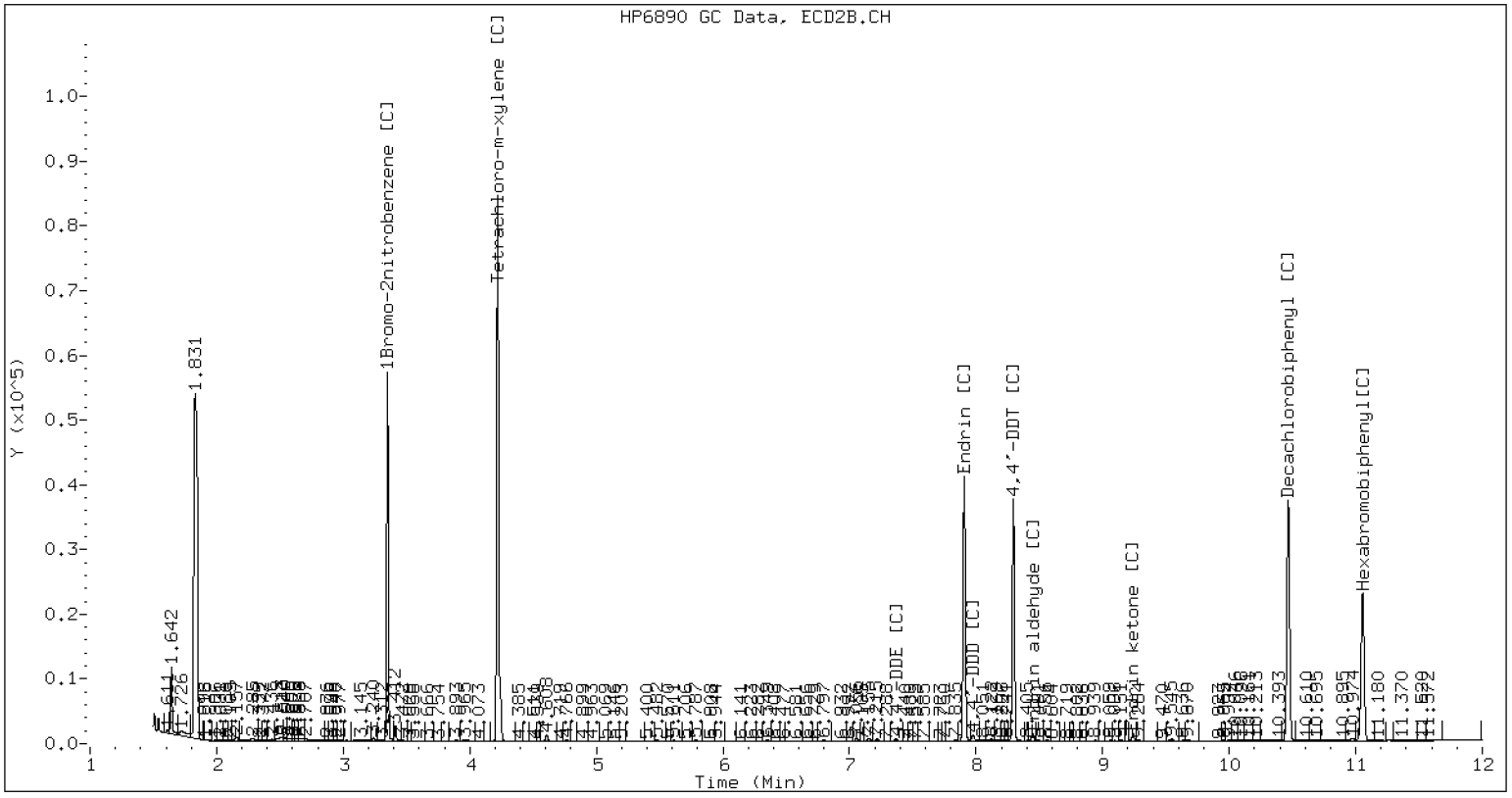

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8081 DDT/ENDRIN BREAKDOWN VERIFICATION SUMMARY

Lab ID: SEQ-PEM1 InstID,Data File: ecd6.i, 22121404.D

Analysis Date: 14-DEC-2022 20:20 Init. Calib. Date: 14-DEC-2022

GC Column: STX-CLP1 ID: 0.53(mm)

COMPOUND	RT	AREA
1Bromo-2nitrobenzene	3.151	683485
4,4'-DDE	6.490	6258
Endrin	7.082	745471
4,4'-DDD	7.136	15566
4,4'-DDT	7.428	629664
Endrin ketone	8.453	19276
Endrin aldehyde	7.747	21328
Hexabromobiphenyl	9.504	619012
Tetrachloro-m-xylene	3.828	1161664
Decachlorobiphenyl	9.355	833312

DDT Percent Breakdown = 3.3 %
((6258+15566) * 100)/(6258+15566+629664)

Endrin Percent Breakdown = 5.2 %
((21328+19276) * 100)/(21328+19276+745471)

GC Column: STX-CLP1 ID: 0.53(mm)

COMPOUND	RT	AREA
Decachlorobiphenyl	9.355	833312
Decachlorobiphenyl	9.355	833312
Decachlorobiphenyl	9.355	833312

Decachlorobiphenyl	9.355	833312
Decachlorobiphenyl	9.355	833312
Decachlorobiphenyl	9.355	833312
Decachlorobiphenyl	9.355	833312
Decachlorobiphenyl	9.355	833312
Decachlorobiphenyl	9.355	833312
Decachlorobiphenyl	9.355	833312

Analytical Resources, LLC
Analytical Chemists and Consultants

PERFORMANCE EVAUATION DATA SHEET

DS1

EPA 8081B

Laboratory:	Analytical Resources, LLC	Laboratory ID:	SLC0442-PEM1	File ID:	23032405.D
Client:	Anchor QEA, LLC	Matrix:	Water	Instrument:	ECD6
Project:	AOC5 MR Phase 1	Analyzed:	03/24/2023	Sequence:	SLC0442
SDG:	23C0071	Calibration:	FL00041	Column:	1

PEM COMPOUND	RT	Response
4,4'-DDE	6.53	6257
Endrin	7.12	489126
4,4'-DDD	7.18	17273
Endrin Aldehyde	7.79	34476
4,4'-DDT	7.47	423243
Endrin Ketone	8.49	38462

4,4'-DDT %Breakdown (1): 5.3

Endrin %Breakdown (1): 13.0

Analytical Resources, LLC
Analytical Chemists and Consultants

PERFORMANCE EVAUATION DATA SHEET

DS1

EPA 8081B

Laboratory:	Analytical Resources, LLC	Laboratory ID:	SLC0442-PEM1	File ID:	23032405.D
Client:	Anchor QEA, LLC	Matrix:	Water	Instrument:	ECD6
Project:	AOC5 MR Phase 1	Analyzed:	03/24/2023	Sequence:	SLC0442
SDG:	23C0071	Calibration:	FL00041	Column:	2

PEM COMPOUND	RT	Response
4,4'-DDE	7.30	9927
Endrin	7.83	582898
4,4'-DDD	7.91	28371
Endrin Aldehyde	8.37	40526
4,4'-DDT	8.22	537884
Endrin Ketone	9.16	43649

4,4'-DDT %Breakdown (1): 6.6

Endrin %Breakdown (1): 12.6

7E

8081 DDT/ENDRIN BREAKDOWN VERIFICATION SUMMARY

Lab ID: SEQ-PEM1 InstID,Data File: ecd6.i, 23032405.D

Analysis Date: 24-MAR-2023 17:09 Init. Calib. Date: 14-DEC-2022

GC Column: STX-CLP1 ID: 0.53(mm)

COMPOUND	RT	AREA
1Bromo-2nitrobenzene	3.163	518811
4,4'-DDE	6.534	6257
Endrin	7.118	489126
4,4'-DDD	7.183	17273
4,4'-DDT	7.470	423243
Endrin ketone	8.493	38462
Endrin aldehyde	7.786	34476
Hexabromobiphenyl	9.560	432866
Tetrachloro-m-xylene	3.848	186702
Decachlorobiphenyl	9.407	153028

DDT Percent Breakdown = 5.3 %
((6257+17273) * 100)/(6257+17273+423243)

Endrin Percent Breakdown = 13.0 %
((34476+38462) * 100)/(34476+38462+489126)

GC Column: STX-CLP2 ID: 0.53(mm)

COMPOUND	RT	AREA
1Bromo-2nitrobenzene [C]	3.313	687832
4,4'-DDE [C]	7.301	9927
Endrin [C]	7.832	582898
4,4'-DDD [C]	7.908	28371
4,4'-DDT [C]	8.221	537884
Endrin ketone [C]	9.162	43649
Endrin aldehyde [C]	8.374	40526
Hexabromobiphenyl[C]	10.932	451073
Tetrachloro-m-xylene [C]	4.170	335728
Decachlorobiphenyl [C]	10.360	172471

DDT Percent Breakdown = 6.6 %
((9927+28371) * 100)/(9927+28371+537884)

Endrin Percent Breakdown = 12.6 %
((40526+43649) * 100)/(40526+43649+582898)

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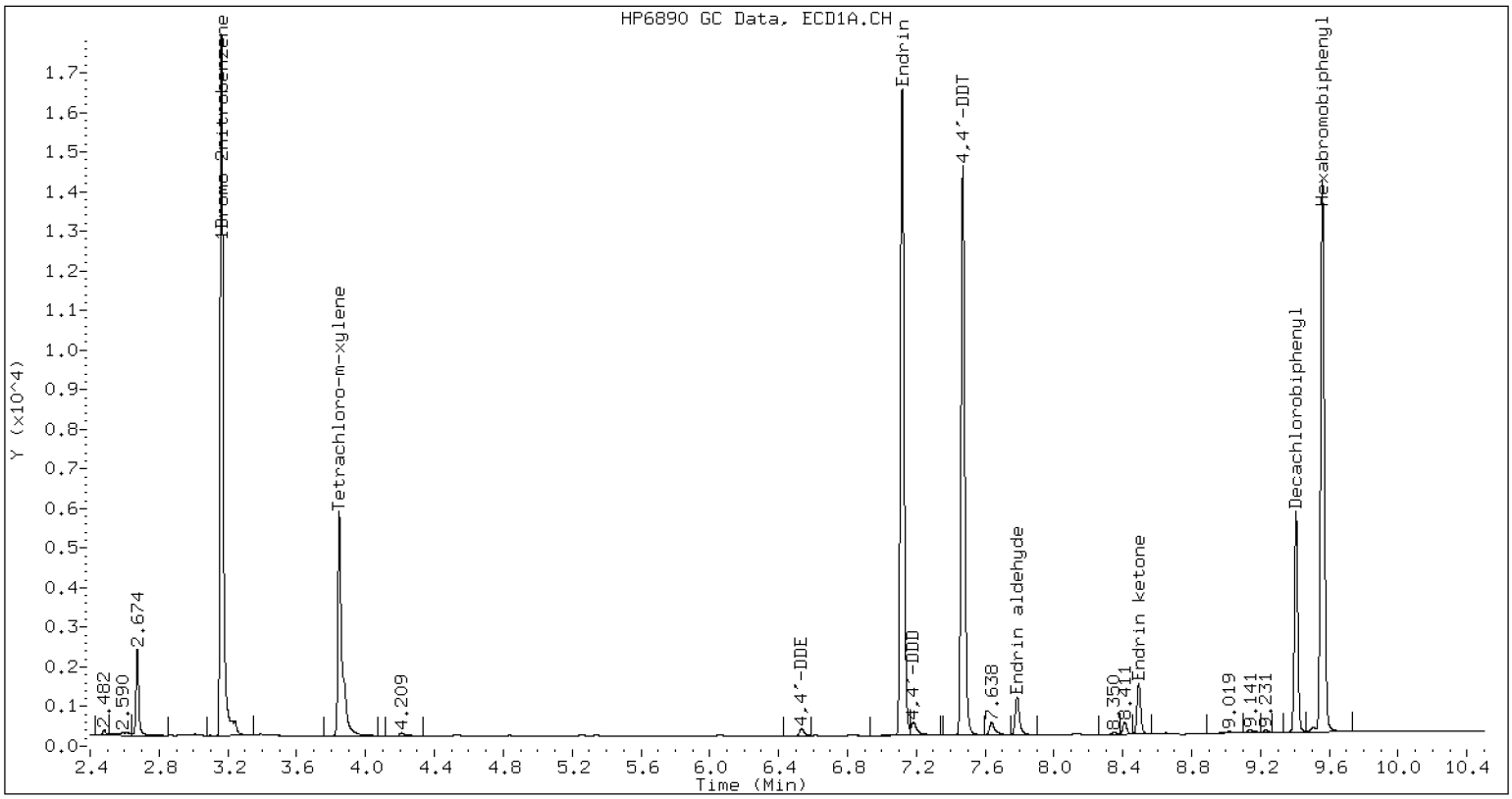

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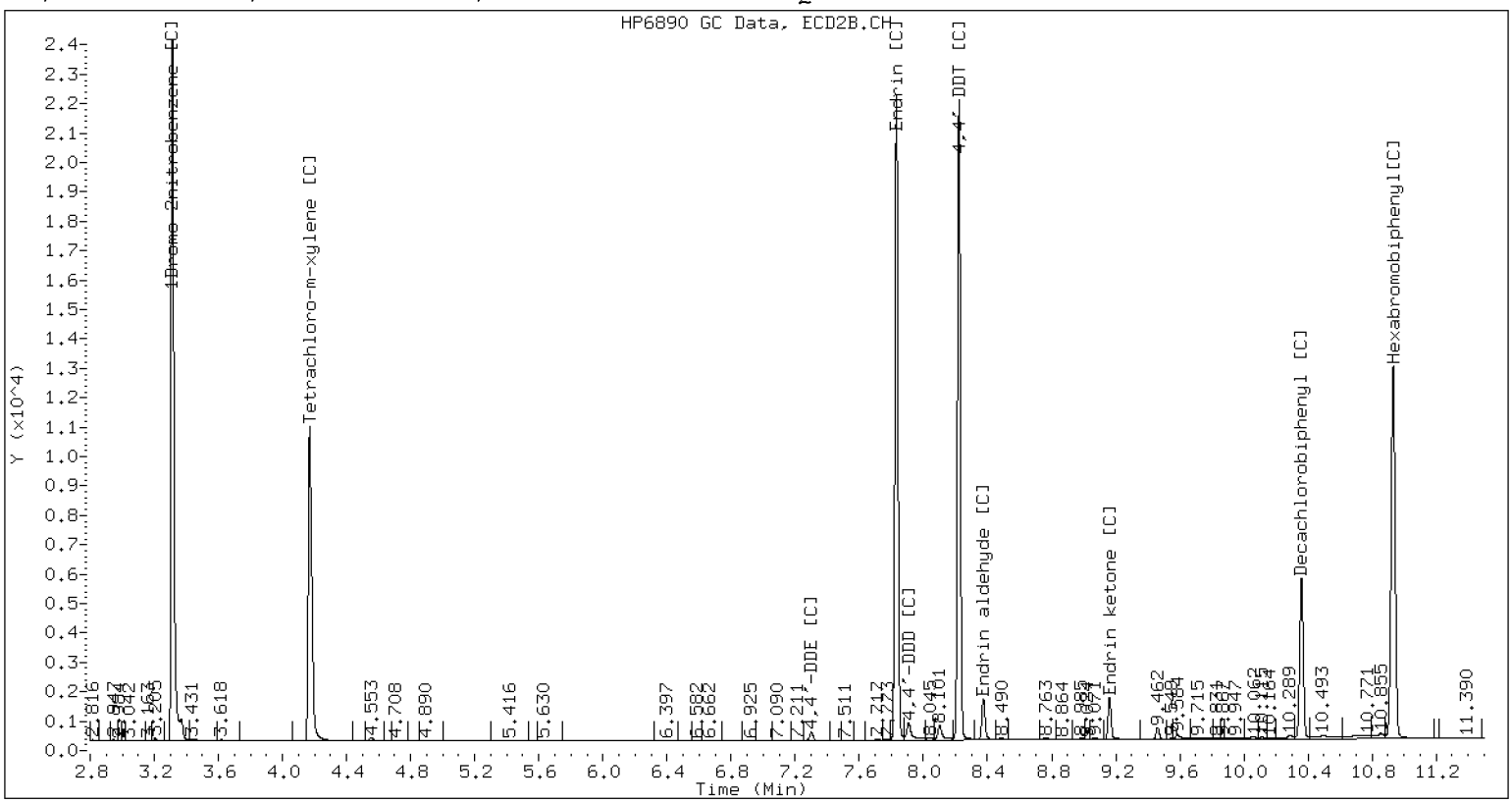

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PERFORMANCE EVAUATION DATA SHEET

DS2

EPA 8081B

Laboratory:	Analytical Resources, LLC	Laboratory ID:	SLC0442-PEM2	File ID:	23032422.D
Client:	Anchor QEA, LLC	Matrix:	Water	Instrument:	ECD6
Project:	AOC5 MR Phase 1	Analyzed:	03/24/2023	Sequence:	SLC0442
SDG:	23C0071	Calibration:	FL00041	Column:	1

PEM COMPOUND	RT	Response
4,4'-DDE	6.53	7832
Endrin	7.12	423851
4,4'-DDD	7.18	18132
Endrin Aldehyde	7.78	70656
4,4'-DDT	7.47	437491
Endrin Ketone	8.49	66548

4,4'-DDT %Breakdown (1): 5.6

Endrin %Breakdown (1): 24.5

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Analytical Chemists and Consultants

PERFORMANCE EVAUATION DATA SHEET

DS2

EPA 8081B

Laboratory:	Analytical Resources, LLC	Laboratory ID:	SLC0442-PEM2	File ID:	23032422.D
Client:	Anchor QEA, LLC	Matrix:	Water	Instrument:	ECD6
Project:	AOC5 MR Phase 1	Analyzed:	03/24/2023	Sequence:	SLC0442
SDG:	23C0071	Calibration:	FL00041	Column:	2

PEM COMPOUND	RT	Response
4,4'-DDE	7.30	10119
Endrin	7.83	514640
4,4'-DDD	7.91	29940
Endrin Aldehyde	8.37	83116
4,4'-DDT	8.22	578108
Endrin Ketone	9.16	71129

4,4'-DDT %Breakdown (1): 6.5

Endrin %Breakdown (1): 23.1

7E

8081 DDT/ENDRIN BREAKDOWN VERIFICATION SUMMARY

Lab ID: SEQ-PEM2 InstID,Data File: ecd6.i, 23032422.D

Analysis Date: 24-MAR-2023 22:13 Init. Calib. Date: 14-DEC-2022

GC Column: STX-CLP1 ID: 0.53(mm)

COMPOUND	RT	AREA
1Bromo-2nitrobenzene	3.163	529882
4,4'-DDE	6.534	7832
Endrin	7.118	423851
4,4'-DDD	7.183	18132
4,4'-DDT	7.470	437491
Endrin ketone	8.492	66548
Endrin aldehyde	7.785	70656
Hexabromobiphenyl	9.560	443814
Tetrachloro-m-xylene	3.848	192346
Decachlorobiphenyl	9.405	155600

DDT Percent Breakdown = 5.6 %
((7832+18132) * 100)/(7832+18132+437491)

Endrin Percent Breakdown = 24.5 %
((70656+66548) * 100)/(70656+66548+423851)

GC Column: STX-CLP2 ID: 0.53(mm)

COMPOUND	RT	AREA
1Bromo-2nitrobenzene [C]	3.313	721391
4,4'-DDE [C]	7.301	10119
Endrin [C]	7.831	514640
4,4'-DDD [C]	7.908	29940
4,4'-DDT [C]	8.221	578108
Endrin ketone [C]	9.162	71129
Endrin aldehyde [C]	8.374	83116
Hexabromobiphenyl[C]	10.932	452983
Tetrachloro-m-xylene [C]	4.170	344267
Decachlorobiphenyl [C]	10.360	181323

DDT Percent Breakdown = 6.5 %
((10119+29940) * 100)/(10119+29940+578108)

Endrin Percent Breakdown = 23.1 %
((83116+71129) * 100)/(83116+71129+514640)

Form VII Pest-1

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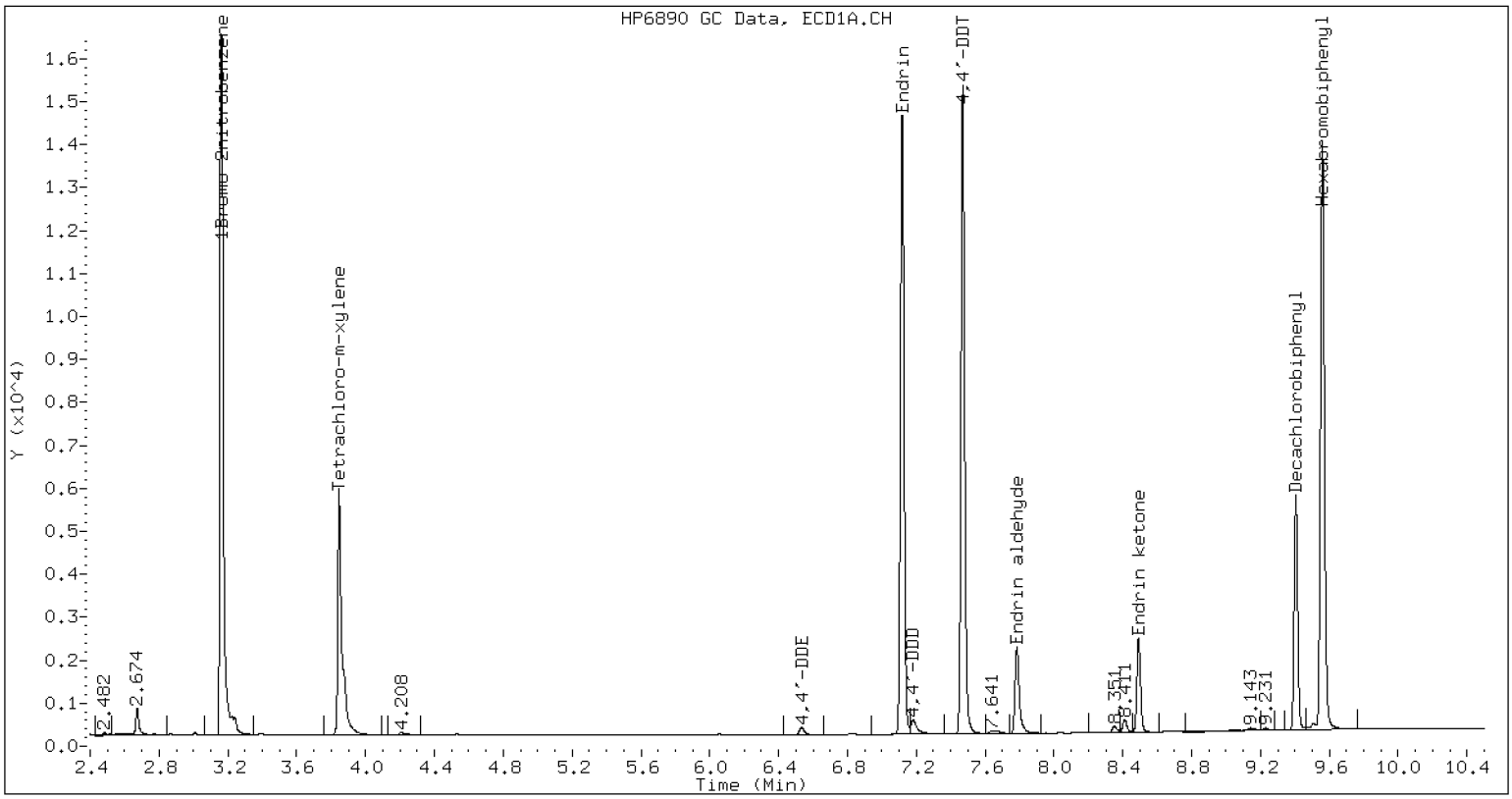

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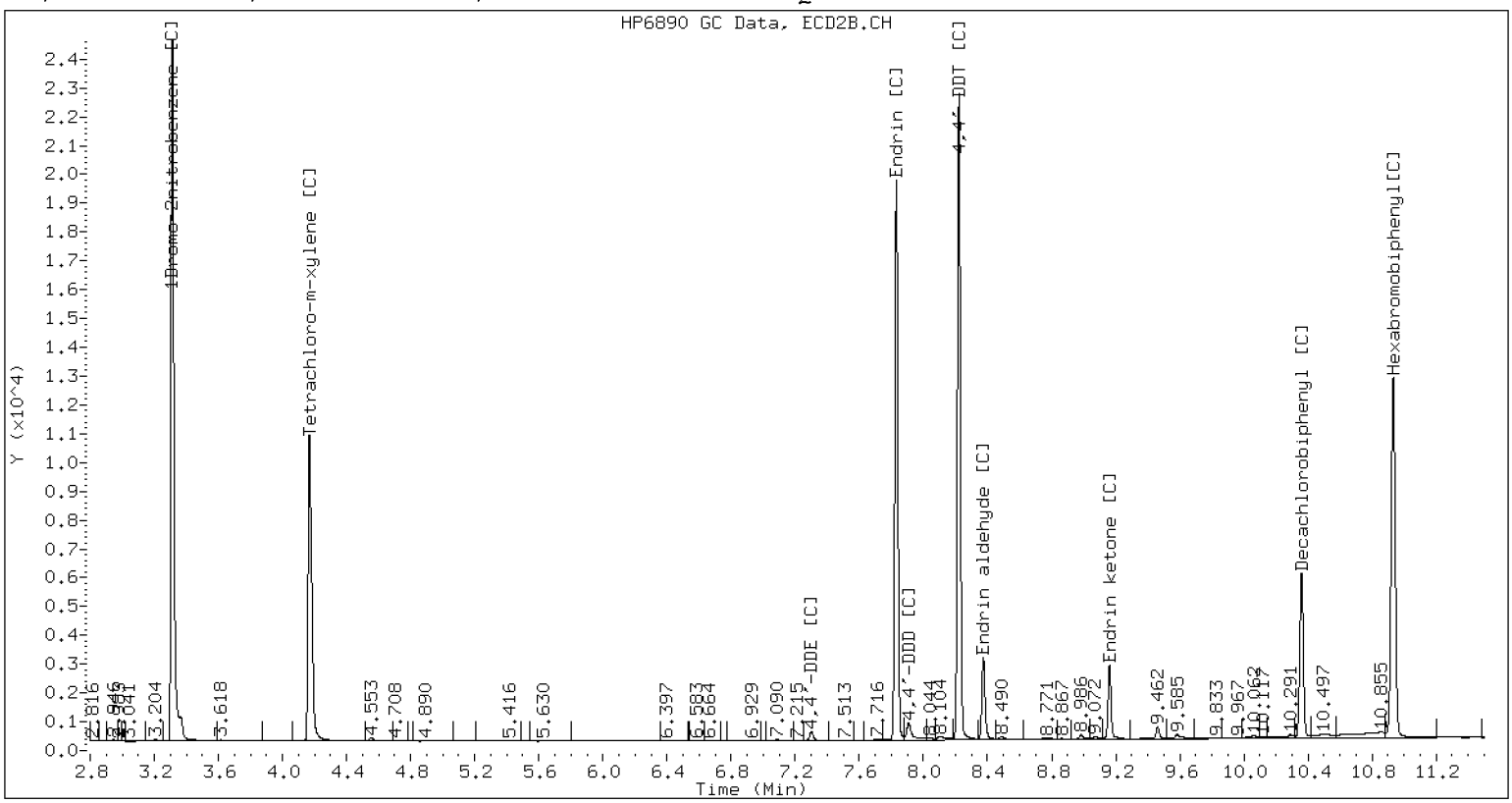

Analytical Resources, LLC
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PERFORMANCE EVAUATION DATA SHEET

DS3

EPA 8081B

Laboratory:	Analytical Resources, LLC	Laboratory ID:	SLC0442-PEM3	File ID:	23032437.D
Client:	Anchor QEA, LLC	Matrix:	Water	Instrument:	ECD6
Project:	AOC5 MR Phase 1	Analyzed:	03/25/2023	Sequence:	SLC0442
SDG:	23C0071	Calibration:	FL00041	Column:	1

PEM COMPOUND	RT	Response
4,4'-DDE	6.53	6360
Endrin	7.12	331418
4,4'-DDD	7.18	15415
Endrin Aldehyde	7.78	62932
4,4'-DDT	7.47	386048
Endrin Ketone	8.49	59739

4,4'-DDT %Breakdown (1): 5.3

Endrin %Breakdown (1): 27.0

Analytical Resources, LLC
Analytical Chemists and Consultants

PERFORMANCE EVAUATION DATA SHEET

DS3

EPA 8081B

Laboratory: Analytical Resources, LLC | Laboratory ID: SLC0442-PEM3 | File ID: 23032437.D

Client: Anchor QEA, LLC | Matrix: Water | Instrument: ECD6

Project: AOC5 MR Phase 1 | Analyzed: 03/25/2023 | Sequence: SLC0442

SDG: 23C0071 | Calibration: FL00041 | Column: 2

PEM COMPOUND	RT	Response
4,4'-DDE	7.30	12803
Endrin	7.83	368081
4,4'-DDD	7.91	24909
Endrin Aldehyde	8.37	92395
4,4'-DDT	8.22	491185
Endrin Ketone	9.16	108082

4,4'-DDT %Breakdown (1): 7.1

Endrin %Breakdown (1): 35.3

7E

8081 DDT/ENDRIN BREAKDOWN VERIFICATION SUMMARY

Lab ID: SEQ-PEM3 InstID,Data File: ecd6.i, 23032437.D

Analysis Date: 25-MAR-2023 02:42 Init. Calib. Date: 14-DEC-2022

GC Column: STX-CLP1 ID: 0.53(mm)

COMPOUND	RT	AREA
1Bromo-2nitrobenzene	3.163	501513
4,4'-DDE	6.535	6360
Endrin	7.118	331418
4,4'-DDD	7.182	15415
4,4'-DDT	7.471	386048
Endrin ketone	8.492	59739
Endrin aldehyde	7.785	62932
Hexabromobiphenyl	9.559	359734
Tetrachloro-m-xylene	3.848	186866
Decachlorobiphenyl	9.405	147743

DDT Percent Breakdown = 5.3 %
((6360+15415) * 100)/(6360+15415+386048)

Endrin Percent Breakdown = 27.0 %
((62932+59739) * 100)/(62932+59739+331418)

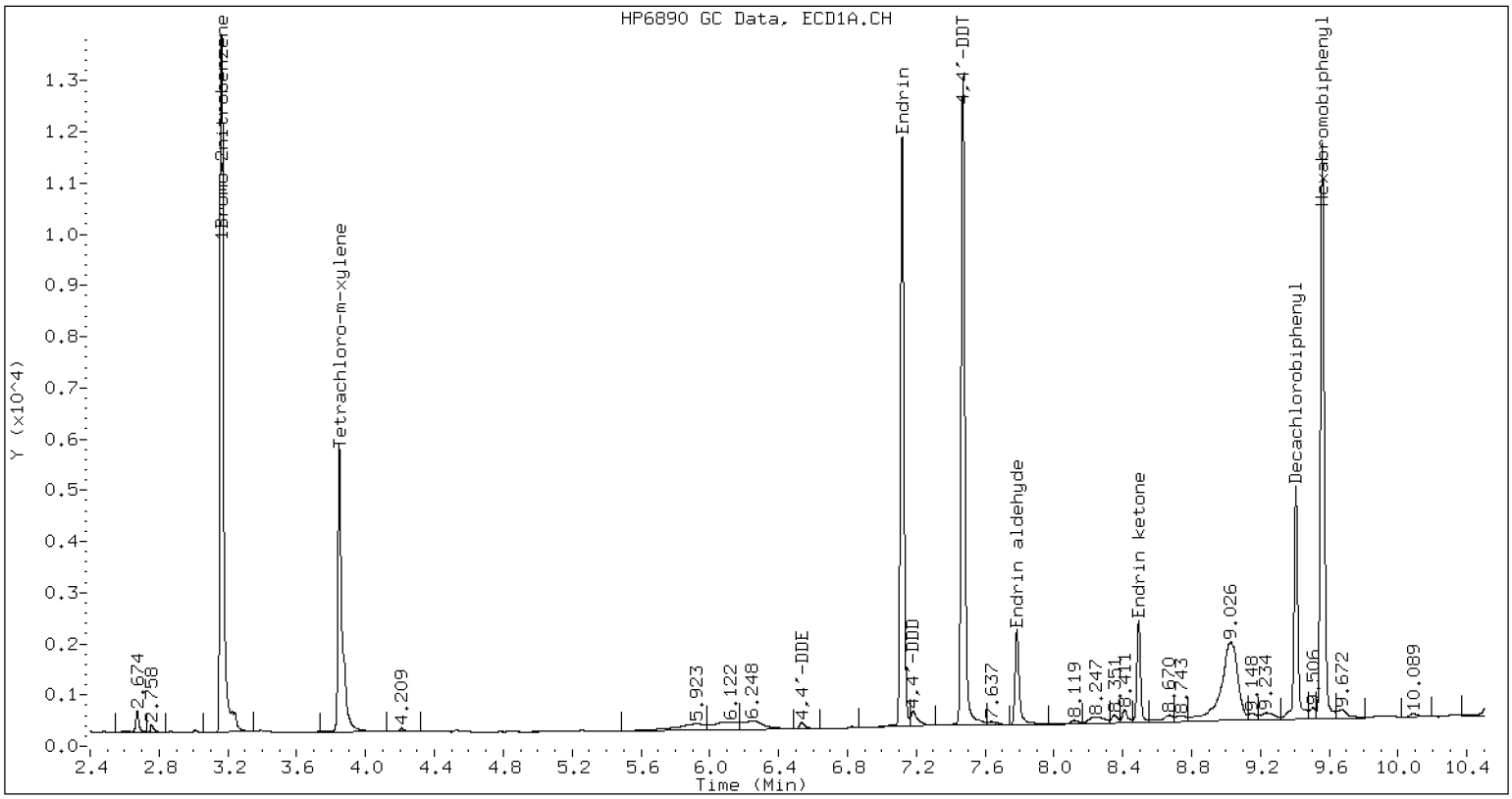
GC Column: STX-CLP2 ID: 0.53(mm)

COMPOUND	RT	AREA
1Bromo-2nitrobenzene [C]	3.313	663308
4,4'-DDE [C]	7.302	12803
Endrin [C]	7.831	368081
4,4'-DDD [C]	7.907	24909
4,4'-DDT [C]	8.222	491185
Endrin ketone [C]	9.161	108082
Endrin aldehyde [C]	8.374	92395
Hexabromobiphenyl[C]	10.931	397193
Tetrachloro-m-xylene [C]	4.169	317961
Decachlorobiphenyl [C]	10.359	167836

DDT Percent Breakdown = 7.1 %
((12803+24909) * 100)/(12803+24909+491185)

Endrin Percent Breakdown = 35.3 %
((92395+108082) * 100)/(92395+108082+368081)

/20230324.b/23032437.D SEQ-PEM3 STX-CLP 25-MAR-2023 02:42 1ul



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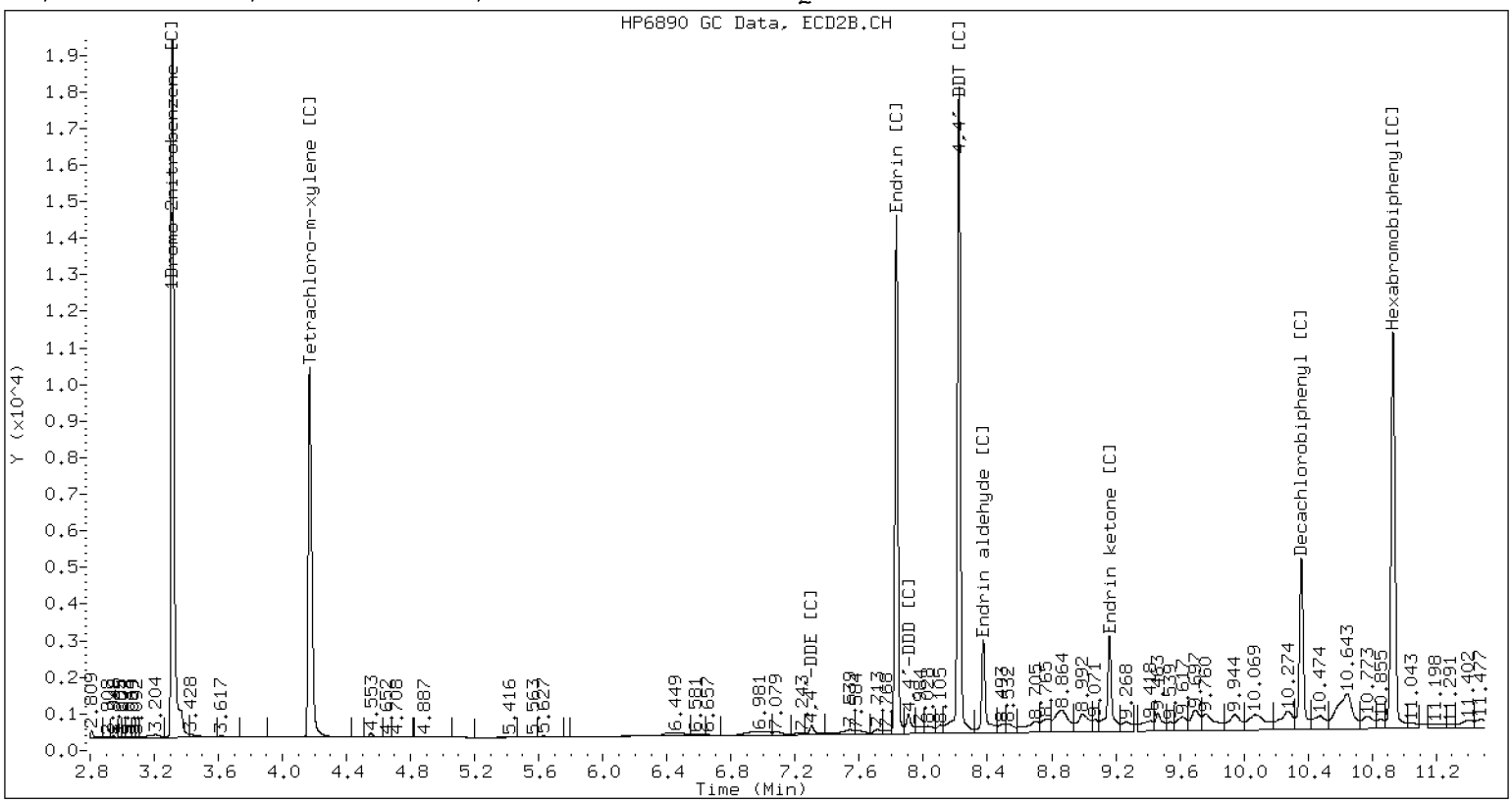


Analytical Resources, LLC
Analytical Chemists and Consultants

PERFORMANCE EVAUATION DATA SHEET

DS4

EPA 8081B

Laboratory:	Analytical Resources, LLC	Laboratory ID:	SLC0442-PEM4	File ID:	23032457.D
Client:	Anchor QEA, LLC	Matrix:	Water	Instrument:	ECD6
Project:	AOC5 MR Phase 1	Analyzed:	03/25/2023	Sequence:	SLC0442
SDG:	23C0071	Calibration:	FL00041	Column:	1

PEM COMPOUND	RT	Response
4,4'-DDE	6.53	8383
Endrin	7.12	305324
4,4'-DDD	7.18	18488
Endrin Aldehyde	7.78	100522
4,4'-DDT	7.47	414929
Endrin Ketone	8.49	90689

4,4'-DDT %Breakdown (1): 6.1

Endrin %Breakdown (1): 38.5

Analytical Resources, LLC
Analytical Chemists and Consultants

PERFORMANCE EVAUATION DATA SHEET

DS4

EPA 8081B

Laboratory:	Analytical Resources, LLC	Laboratory ID:	SLC0442-PEM4	File ID:	23032457.D
Client:	Anchor QEA, LLC	Matrix:	Water	Instrument:	ECD6
Project:	AOC5 MR Phase 1	Analyzed:	03/25/2023	Sequence:	SLC0442
SDG:	23C0071	Calibration:	FL00041	Column:	2

PEM COMPOUND	RT	Response
4,4'-DDE	7.30	10259
Endrin	7.83	340707
4,4'-DDD	7.91	27721
Endrin Aldehyde	8.37	121886
4,4'-DDT	8.22	517206
Endrin Ketone	9.16	123322

4,4'-DDT %Breakdown (1): 6.8

Endrin %Breakdown (1): 41.9

7E

8081 DDT/ENDRIN BREAKDOWN VERIFICATION SUMMARY

Lab ID: SEQ-PEM4 InstID,Data File: ecd6.i, 23032457.D

Analysis Date: 25-MAR-2023 08:40 Init. Calib. Date: 14-DEC-2022

GC Column: STX-CLP1 ID: 0.53(mm)

COMPOUND	RT	AREA
1Bromo-2nitrobenzene	3.161	509106
4,4'-DDE	6.533	8383
Endrin	7.116	305324
4,4'-DDD	7.180	18488
4,4'-DDT	7.468	414929
Endrin ketone	8.490	90689
Endrin aldehyde	7.782	100522
Hexabromobiphenyl	9.556	422512
Tetrachloro-m-xylene	3.846	189018
Decachlorobiphenyl	9.402	155923

DDT Percent Breakdown = 6.1 %
((8383+18488) * 100)/(8383+18488+414929)

Endrin Percent Breakdown = 38.5 %
((100522+90689) * 100)/(100522+90689+305324)

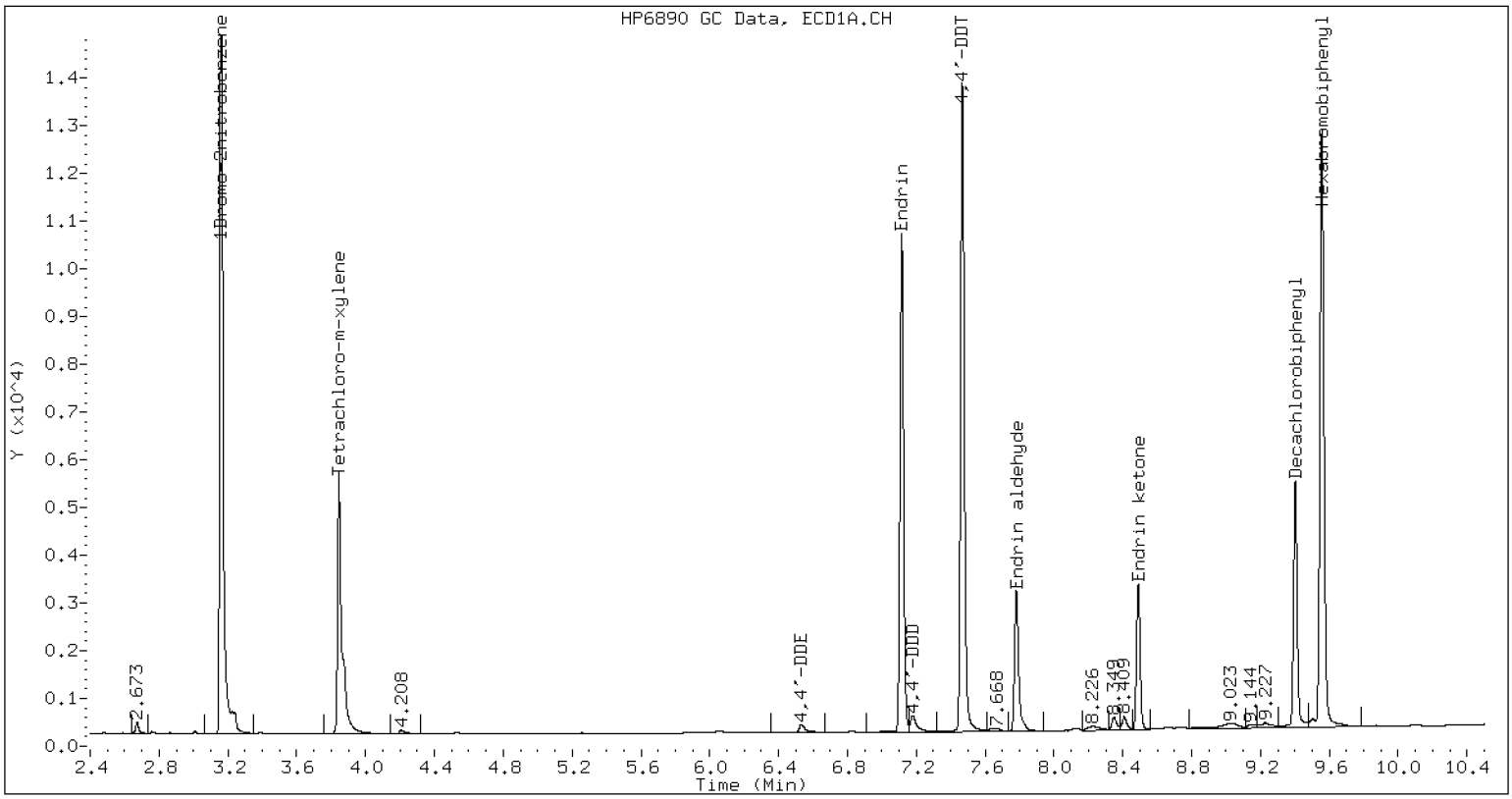
GC Column: STX-CLP2 ID: 0.53(mm)

COMPOUND	RT	AREA
1Bromo-2nitrobenzene [C]	3.312	693430
4,4'-DDE [C]	7.300	10259
Endrin [C]	7.829	340707
4,4'-DDD [C]	7.905	27721
4,4'-DDT [C]	8.220	517206
Endrin ketone [C]	9.159	123322
Endrin aldehyde [C]	8.372	121886
Hexabromobiphenyl[C]	10.928	445549
Tetrachloro-m-xylene [C]	4.168	333930
Decachlorobiphenyl [C]	10.357	174927

DDT Percent Breakdown = 6.8 %
((10259+27721) * 100)/(10259+27721+517206)

Endrin Percent Breakdown = 41.9 %
((121886+123322) * 100)/(121886+123322+340707)

/20230324.b/23032457.D SEQ-PEM4 STX-CLP 25-MAR-2023 08:40 1ul



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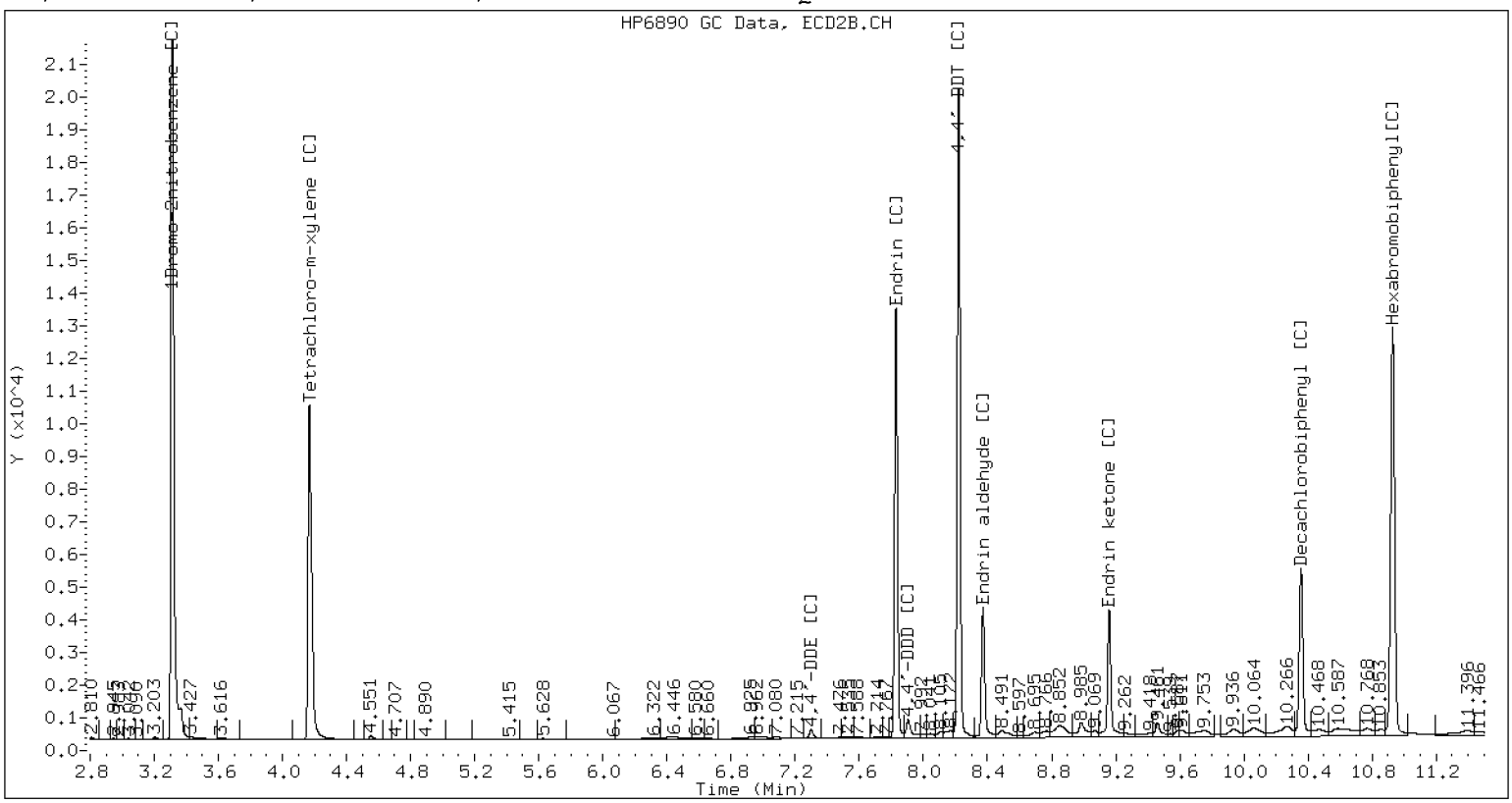

Dual Column

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8081B

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SKL0233
Instrument: ECD6
Calibration: FL00041

Sample Name	Lab Sample ID	Column 1 File ID	Column 2 File ID	Matrix	Analysis Date/Time
Performance Mix	SKL0233-PEM1	22121404.D	22121404.D	NA	12/14/22 20:20
Cal Standard	SKL0233-CAL1	22121405.D	22121405.D	NA	12/14/22 20:38
Cal Standard	SKL0233-CAL2	22121406.D	22121406.D	NA	12/14/22 20:56
Cal Standard	SKL0233-CAL3	22121407.D	22121407.D	NA	12/14/22 21:14
Cal Standard	SKL0233-CAL4	22121408.D	22121408.D	NA	12/14/22 21:31
Cal Standard	SKL0233-CAL5	22121409.D	22121409.D	NA	12/14/22 21:49
Cal Standard	SKL0233-CAL6	22121410.D	22121410.D	NA	12/14/22 22:07
Cal Standard	SKL0233-CAL7	22121411.D	22121411.D	NA	12/14/22 22:25
Cal Standard	SKL0233-CAL8	22121412.D	22121412.D	NA	12/14/22 22:43
Cal Standard	SKL0233-CAL9	22121413.D	22121413.D	NA	12/14/22 23:01
Cal Standard	SKL0233-CALA	22121414.D	22121414.D	NA	12/14/22 23:19
Cal Standard	SKL0233-CALB	22121415.D	22121415.D	NA	12/14/22 23:36
Cal Standard	SKL0233-CALC	22121416.D	22121416.D	NA	12/14/22 23:54
Cal Standard	SKL0233-CALD	22121417.D	22121417.D	NA	12/15/22 00:12
Cal Standard	SKL0233-CALE	22121418.D	22121418.D	NA	12/15/22 00:30

Printed: 12/17/2022 10:57:45AM

ANALYSIS SEQUENCE

SKL0233

Instrument: ECD6 Element Column ID:
Calibration ID: FL00041

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	Comments
SKL0233-PEM1	DS1	QC		1	K007286	K006953		
SKL0233-CAL1	INDAA	QC		2	K011594	K006953		
SKL0233-CAL2	INDAB	QC		3	K011593	K006953		
SKL0233-CAL3	INDAC	QC		4	K011592	K006953		
SKL0233-CAL4	INDAD	QC		5	K011591	K006953		
SKL0233-CAL5	INDAE	QC		6	K011590	K006953		
SKL0233-CAL6	INDAF	QC		7	K011589	K006953		
SKL0233-CAL7	INDAG	QC		8	K011463	K006953		
SKL0233-CAL8	WNDA	QC		9	K011595	K006953		
SKL0233-CAL9	WNDB	QC		10	K007148	K006953		
SKL0233-CALA	WNDC	QC		11	K007147	K006953		
SKL0233-CALB	WNDD	QC		12	K007146	K006953		
SKL0233-CALC	WNDE	QC		13	K007145	K006953		
SKL0233-CALD	WNDF	QC		14	K007144	K006953		
SKL0233-CALE	WNDG	QC		15	K007093	K006953		
SKL0233-CALM	NOS1	QC		16	K007375	K006953		
SKL0233-CALN	NOS2	QC		17	K007374	K006953		
SKL0233-CALO	NOS3	QC		18	K007373	K006953		
SKL0233-CALP	NOS4	QC		19	K007372	K006953		
SKL0233-CALQ	NOS5	QC		20	K007371	K006953		
SKL0233-CALR	NOS6	QC		21	K007370	K006953		
SKL0233-CALS	NOS7	QC		22	K007287	K006953		

Printed: 12/17/2022 10:57:45AM

ANALYSIS SEQUENCE

SKL0233

Instrument: ECD6 Element Column ID:
Calibration ID: FL00041

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	Comments
SKL0233-CALF	TOXAPH1	QC		23	K011601	K006953		
SKL0233-CALG	TOXAPH2	QC		24	K011600	K006953		
SKL0233-CALH	TOXAPH3	QC		25	K011599	K006953		
SKL0233-CALI	TOXAPH4	QC		26	K011598	K006953		
SKL0233-CALJ	TOXAPH5	QC		27	K011597	K006953		
SKL0233-CALK	TOXAPH6	QC		28	K011596	K006953		
SKL0233-CALL	TOXAPH7	QC		29	K008546	K006953		

GC LOG SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b

	Inject Date/Time	Filename	DF	LabID	ClientID
1	14-DEC-2022 19:27	22121401.D	1	RINSE	
2	14-DEC-2022 19:44	22121402.D	1	RINSE	
3	14-DEC-2022 20:02	22121403.D	1	SEQ-IBL1	
4	14-DEC-2022 20:20	22121404.D	1	SEQ-PEM1	
5	14-DEC-2022 20:38	22121405.D	1	SEQ-CAL1	
6	14-DEC-2022 20:56	22121406.D	1	SEQ-CAL2	
7	14-DEC-2022 21:14	22121407.D	1	SEQ-CAL3	
8	14-DEC-2022 21:31	22121408.D	1	SEQ-CAL4	
9	14-DEC-2022 21:49	22121409.D	1	SEQ-CAL5	
10	14-DEC-2022 22:07	22121410.D	1	SEQ-CAL6	
11	14-DEC-2022 22:25	22121411.D	1	SEQ-CAL7	
12	14-DEC-2022 22:43	22121412.D	1	SEQ-CAL8	
13	14-DEC-2022 23:01	22121413.D	1	SEQ-CAL9	
14	14-DEC-2022 23:19	22121414.D	1	SEQ-CALA	
15	14-DEC-2022 23:36	22121415.D	1	SEQ-CALB	
16	14-DEC-2022 23:54	22121416.D	1	SEQ-CALC	
17	15-DEC-2022 00:12	22121417.D	1	SEQ-CALD	
18	15-DEC-2022 00:30	22121418.D	1	SEQ-CALE	
19	15-DEC-2022 00:48	22121419.D	1	SEQ-SCV1	
20	15-DEC-2022 01:06	22121420.D	1	SEQ-SCV2	
21	15-DEC-2022 01:24	22121421.D	1	SEQ-CAL1A	
22	15-DEC-2022 01:42	22121422.D	1	SEQ-CAL2A	
23	15-DEC-2022 01:59	22121423.D	1	SEQ-CAL3A	
24	15-DEC-2022 02:17	22121424.D	1	SEQ-CAL4A	
25	15-DEC-2022 02:35	22121425.D	1	SEQ-CAL5A	
26	15-DEC-2022 02:53	22121426.D	1	SEQ-CAL6A	
27	15-DEC-2022 03:11	22121427.D	1	SEQ-CAL7A	
28	15-DEC-2022 03:29	22121428.D	1	SEQ-CAL8A	
29	15-DEC-2022 03:46	22121429.D	1	SEQ-CAL9A	
30	15-DEC-2022 04:04	22121430.D	1	SEQ-CALAA	
31	15-DEC-2022 04:22	22121431.D	1	SEQ-CALAB	
32	15-DEC-2022 04:40	22121432.D	1	SEQ-CALAC	
33	15-DEC-2022 04:58	22121433.D	1	SEQ-CALAD	
34	15-DEC-2022 05:16	22121434.D	1	SEQ-CALAE	
35	15-DEC-2022 05:33	22121435.D	1	SEQ-PEM2	
36	15-DEC-2022 05:51	22121436.D	1	SEQ-ICV1	
37	15-DEC-2022 06:09	22121437.D	1	SEQ-ICV2	
38	15-DEC-2022 06:27	22121438.D	1	SEQ-ICV3	
39	15-DEC-2022 06:45	22121439.D	1	SEQ-ICV4	
40	15-DEC-2022 07:03	22121440.D	1	BKK0688-BLK1	
41	15-DEC-2022 07:21	22121441.D	1	BKK0688-BS1	
42	15-DEC-2022 07:39	22121442.D	1	BKK0688-BS2	
43	15-DEC-2022 07:57	22121443.D	1	BKK0688-BS3	
44	15-DEC-2022 08:15	22121444.D	1	BKK0688-BSD1	
45	15-DEC-2022 08:32	22121445.D	1	BKK0142-BLK1	
46	15-DEC-2022 08:50	22121446.D	1	BKK0142-BS1	
47	15-DEC-2022 09:08	22121447.D	1	BKK0142-BS2	
48	15-DEC-2022 09:26	22121448.D	1	BKK0142-BSD1	
49	15-DEC-2022 09:44	22121449.D	1	BKK0142-MS1	
50	15-DEC-2022 10:02	22121450.D	1	BKK0142-MSD1	

GC LOG SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b p

	Inject Date/Time	Filename	DF	LabID	ClientID
51	15-DEC-2022 10:20	22121451.D	1	22J0513-01	
52	15-DEC-2022 10:38	22121452.D	1	22J0513-04	
53	15-DEC-2022 10:55	22121453.D	1	22J0535-01	
54	15-DEC-2022 11:13	22121454.D	1	22K0429-01	
55	15-DEC-2022 11:31	22121455.D	1	22K0429-02	
56	15-DEC-2022 11:49	22121456.D	1	22K0429-03	
57	15-DEC-2022 12:07	22121457.D	1	SEQ-PEM3	
58	15-DEC-2022 12:25	22121458.D	1	SEQ-CCV1	
59	15-DEC-2022 12:43	22121459.D	1	SEQ-CCV2	
60	15-DEC-2022 13:01	22121460.D	1	SEQ-CCV3	
61	15-DEC-2022 13:19	22121461.D	1	SEQ-CCV4	
62	15-DEC-2022 13:36	22121462.D	1	BKK0380-BLK1	
63	15-DEC-2022 13:54	22121463.D	1	BKK0380-BS1	
64	15-DEC-2022 14:12	22121464.D	1	BKK0380-BSD1	
65	15-DEC-2022 14:30	22121465.D	1	22K0157-01	
66	15-DEC-2022 14:48	22121466.D	1	22K0230-01	
67	15-DEC-2022 15:06	22121467.D	1	22K0231-01	
68	15-DEC-2022 15:24	22121468.D	1	BKK0382-BLK1	
69	15-DEC-2022 15:42	22121469.D	1	BKK0382-BS1	
70	15-DEC-2022 16:00	22121470.D	1	BKK0382-BS2	
71	15-DEC-2022 16:18	22121471.D	1	BKK0382-BSD1	
72	15-DEC-2022 16:35	22121472.D	1	22K0075-01	
73	15-DEC-2022 16:53	22121473.D	1	SEQ-PEM4	
74	15-DEC-2022 17:11	22121474.D	1	SEQ-CCV5	
75	15-DEC-2022 17:29	22121475.D	1	SEQ-CCV6	
76	15-DEC-2022 17:47	22121476.D	1	SEQ-CCV7	
77	15-DEC-2022 18:05	22121477.D	1	SEQ-CCV8	
78	15-DEC-2022 18:23	22121478.D	1	BKK0537-BLK1	
79	15-DEC-2022 18:40	22121479.D	1	BKK0537-BS1	
80	15-DEC-2022 18:58	22121480.D	1	BKK0537-BS2	
81	15-DEC-2022 19:16	22121481.D	1	22K0194-01	
82	15-DEC-2022 19:34	22121482.D	1	22K0194-01RE1	10
83	15-DEC-2022 19:52	22121483.D	1	SEQ-PEM5	
84	15-DEC-2022 20:09	22121484.D	1	SEQ-CCV9	
85	15-DEC-2022 20:27	22121485.D	1	SEQ-CCVA	
86	15-DEC-2022 20:45	22121486.D	1	SEQ-CCVB	
87	15-DEC-2022 21:03	22121487.D	1	SEQ-CCVC	

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b

ARI Job No.: RINS Method: PEST.m Instrument: ecd6.i Date: 14-DEC-2022

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1927	22121401.D	RINSE		1	NO MANUAL INTEGRATION
1944	22121402.D	RINSE		1	NO MANUAL INTEGRATION
2002	22121403.D	SEQ-IBL1		1	NO MANUAL INTEGRATION
2020	22121404.D	SEQ-PEM1		1	NO MANUAL INTEGRATION
2038	22121405.D	SEQ-CAL1		1	NO MANUAL INTEGRATION
2056	22121406.D	SEQ-CAL2		1	NO MANUAL INTEGRATION
2114	22121407.D	SEQ-CAL3		1	NO MANUAL INTEGRATION
2131	22121408.D	SEQ-CAL4		1	NO MANUAL INTEGRATION
2149	22121409.D	SEQ-CAL5		1	NO MANUAL INTEGRATION
2207	22121410.D	SEQ-CAL6		1	NO MANUAL INTEGRATION
2225	22121411.D	SEQ-CAL7		1	NO MANUAL INTEGRATION
2243	22121412.D	SEQ-CAL8		1	NO MANUAL INTEGRATION
2301	22121413.D	SEQ-CAL9		1	NO MANUAL INTEGRATION
2319	22121414.D	SEQ-CALA		1	NO MANUAL INTEGRATION
2336	22121415.D	SEQ-CALB		1	NO MANUAL INTEGRATION
2354	22121416.D	SEQ-CALC		1	NO MANUAL INTEGRATION
0012	22121417.D	SEQ-CALD		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0030	22121418.D	SEQ-CALE		1	NO MANUAL INTEGRATION
0048	22121419.D	SEQ-SCV1		1	NO MANUAL INTEGRATION
0106	22121420.D	SEQ-SCV2		1	NO MANUAL INTEGRATION
0124	22121421.D	SEQ-CAL1A		1	NO MANUAL INTEGRATION
0142	22121422.D	SEQ-CAL2A		1	NO MANUAL INTEGRATION
0159	22121423.D	SEQ-CAL3A		1	NO MANUAL INTEGRATION
0217	22121424.D	SEQ-CAL4A		1	NO MANUAL INTEGRATION
0235	22121425.D	SEQ-CAL5A		1	NO MANUAL INTEGRATION
0253	22121426.D	SEQ-CAL6A		1	NO MANUAL INTEGRATION
0311	22121427.D	SEQ-CAL7A		1	NO MANUAL INTEGRATION
0329	22121428.D	SEQ-CAL8A		1	NO MANUAL INTEGRATION
0346	22121429.D	SEQ-CAL9A		1	NO MANUAL INTEGRATION
0404	22121430.D	SEQ-CALAA		1	NO MANUAL INTEGRATION
0422	22121431.D	SEQ-CALAB		1	NO MANUAL INTEGRATION
0440	22121432.D	SEQ-CALAC		1	NO MANUAL INTEGRATION
0458	22121433.D	SEQ-CALAD		1	NO MANUAL INTEGRATION
0516	22121434.D	SEQ-CALAE		1	NO MANUAL INTEGRATION
0533	22121435.D	SEQ-PEM2		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0551	22121436.D	SEQ-ICV1		1	NO MANUAL INTEGRATION
0609	22121437.D	SEQ-ICV2		1	NO MANUAL INTEGRATION
0627	22121438.D	SEQ-ICV3		1	NO MANUAL INTEGRATION
0645	22121439.D	SEQ-ICV4		1	NO MANUAL INTEGRATION
0703	22121440.D	BKK0688-BLK1		1	NO MANUAL INTEGRATION
0721	22121441.D	BKK0688-BS1		1	NO MANUAL INTEGRATION
0739	22121442.D	BKK0688-BS2		1	NO MANUAL INTEGRATION
0757	22121443.D	BKK0688-BS3		1	NO MANUAL INTEGRATION
0815	22121444.D	BKK0688-BSD1		1	NO MANUAL INTEGRATION
0832	22121445.D	BKK0142-BLK1		1	NO MANUAL INTEGRATION
0850	22121446.D	BKK0142-BS1		1	NO MANUAL INTEGRATION
0908	22121447.D	BKK0142-BS2		1	NO MANUAL INTEGRATION
0926	22121448.D	BKK0142-BSD1		1	NO MANUAL INTEGRATION
0944	22121449.D	BKK0142-MS1		1	NO MANUAL INTEGRATION
1002	22121450.D	BKK0142-MSD1		1	NO MANUAL INTEGRATION
1020	22121451.D	22J0513-01		1	NO MANUAL INTEGRATION
1038	22121452.D	22J0513-04		1	NO MANUAL INTEGRATION
1055	22121453.D	22J0535-01		1	trans-Chlordane,

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1113	22121454.D	22K0429-01		1	Heptachlor epoxide b,
1131	22121455.D	22K0429-02		1	Heptachlor epoxide b,
1149	22121456.D	22K0429-03		1	Hexachlorobenzene,
1207	22121457.D	SEQ-PEM3		1	NO MANUAL INTEGRATION
1225	22121458.D	SEQ-CCV1		1	NO MANUAL INTEGRATION
1243	22121459.D	SEQ-CCV2		1	NO MANUAL INTEGRATION
1301	22121460.D	SEQ-CCV3		1	NO MANUAL INTEGRATION
1319	22121461.D	SEQ-CCV4		1	NO MANUAL INTEGRATION
1336	22121462.D	BKK0380-BLK1		1	NO MANUAL INTEGRATION
1354	22121463.D	BKK0380-BS1		1	NO MANUAL INTEGRATION
1412	22121464.D	BKK0380-BSD1		1	NO MANUAL INTEGRATION
1430	22121465.D	22K0157-01		1	NO MANUAL INTEGRATION
1448	22121466.D	22K0230-01		1	NO MANUAL INTEGRATION
1506	22121467.D	22K0231-01		1	NO MANUAL INTEGRATION
1524	22121468.D	BKK0382-BLK1		1	NO MANUAL INTEGRATION
1542	22121469.D	BKK0382-BS1		1	NO MANUAL INTEGRATION
1600	22121470.D	BKK0382-BS2		1	NO MANUAL INTEGRATION
1618	22121471.D	BKK0382-BSD1		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1635	22121472.D	22K0075-01		1	NO MANUAL INTEGRATION
1653	22121473.D	SEQ-PEM4		1	NO MANUAL INTEGRATION
1711	22121474.D	SEQ-CCV5		1	NO MANUAL INTEGRATION
1729	22121475.D	SEQ-CCV6		1	NO MANUAL INTEGRATION
1747	22121476.D	SEQ-CCV7		1	NO MANUAL INTEGRATION
1805	22121477.D	SEQ-CCV8		1	NO MANUAL INTEGRATION
1823	22121478.D	BKK0537-BLK1		1	NO MANUAL INTEGRATION
1840	22121479.D	BKK0537-BS1		1	NO MANUAL INTEGRATION
1858	22121480.D	BKK0537-BS2		1	NO MANUAL INTEGRATION
1916	22121481.D	22K0194-01		1	NO MANUAL INTEGRATION
1934	22121482.D	22K0194-01RE1	10	1	NO MANUAL INTEGRATION
1952	22121483.D	SEQ-PEM5		1	NO MANUAL INTEGRATION
2009	22121484.D	SEQ-CCV9		1	NO MANUAL INTEGRATION
2027	22121485.D	SEQ-CCVA		1	NO MANUAL INTEGRATION
2045	22121486.D	SEQ-CCVB		1	NO MANUAL INTEGRATION
2103	22121487.D	SEQ-CCVC		1	NO MANUAL INTEGRATION
1927	22121401.D	RINSE		1	NO MANUAL INTEGRATION
1944	22121402.D	RINSE		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b\B20221214.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
2002	22121403.D	SEQ-IBL1		1	NO MANUAL INTEGRATION
2020	22121404.D	SEQ-PEM1		1	NO MANUAL INTEGRATION
2038	22121405.D	SEQ-CAL1		1	NO MANUAL INTEGRATION
2056	22121406.D	SEQ-CAL2		1	NO MANUAL INTEGRATION
2114	22121407.D	SEQ-CAL3		1	NO MANUAL INTEGRATION
2131	22121408.D	SEQ-CAL4		1	NO MANUAL INTEGRATION
2149	22121409.D	SEQ-CAL5		1	NO MANUAL INTEGRATION
2207	22121410.D	SEQ-CAL6		1	NO MANUAL INTEGRATION
2225	22121411.D	SEQ-CAL7		1	NO MANUAL INTEGRATION
2243	22121412.D	SEQ-CAL8		1	NO MANUAL INTEGRATION
2301	22121413.D	SEQ-CAL9		1	NO MANUAL INTEGRATION
2319	22121414.D	SEQ-CALA		1	NO MANUAL INTEGRATION
2336	22121415.D	SEQ-CALB		1	NO MANUAL INTEGRATION
2354	22121416.D	SEQ-CALC		1	NO MANUAL INTEGRATION
0012	22121417.D	SEQ-CALD		1	NO MANUAL INTEGRATION
0030	22121418.D	SEQ-CALE		1	NO MANUAL INTEGRATION
0048	22121419.D	SEQ-SCV1		1	NO MANUAL INTEGRATION
0106	22121420.D	SEQ-SCV2		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b\B20221214.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0124	22121421.D	SEQ-CAL1A		1	NO MANUAL INTEGRATION
0142	22121422.D	SEQ-CAL2A		1	NO MANUAL INTEGRATION
0159	22121423.D	SEQ-CAL3A		1	NO MANUAL INTEGRATION
0217	22121424.D	SEQ-CAL4A		1	NO MANUAL INTEGRATION
0235	22121425.D	SEQ-CAL5A		1	NO MANUAL INTEGRATION
0253	22121426.D	SEQ-CAL6A		1	NO MANUAL INTEGRATION
0311	22121427.D	SEQ-CAL7A		1	NO MANUAL INTEGRATION
0329	22121428.D	SEQ-CAL8A		1	NO MANUAL INTEGRATION
0346	22121429.D	SEQ-CAL9A		1	NO MANUAL INTEGRATION
0404	22121430.D	SEQ-CALAA		1	NO MANUAL INTEGRATION
0422	22121431.D	SEQ-CALAB		1	NO MANUAL INTEGRATION
0440	22121432.D	SEQ-CALAC		1	NO MANUAL INTEGRATION
0458	22121433.D	SEQ-CALAD		1	NO MANUAL INTEGRATION
0516	22121434.D	SEQ-CALAE		1	NO MANUAL INTEGRATION
0533	22121435.D	SEQ-PEM2		1	NO MANUAL INTEGRATION
0551	22121436.D	SEQ-ICV1		1	NO MANUAL INTEGRATION
0609	22121437.D	SEQ-ICV2		1	NO MANUAL INTEGRATION
0627	22121438.D	SEQ-ICV3		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b\B20221214.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0645	22121439.D	SEQ-ICV4		1	NO MANUAL INTEGRATION
0703	22121440.D	BKK0688-BLK1		1	NO MANUAL INTEGRATION
0721	22121441.D	BKK0688-BS1		1	NO MANUAL INTEGRATION
0739	22121442.D	BKK0688-BS2		1	NO MANUAL INTEGRATION
0757	22121443.D	BKK0688-BS3		1	NO MANUAL INTEGRATION
0815	22121444.D	BKK0688-BSD1		1	NO MANUAL INTEGRATION
0832	22121445.D	BKK0142-BLK1		1	NO MANUAL INTEGRATION
0850	22121446.D	BKK0142-BS1		1	NO MANUAL INTEGRATION
0908	22121447.D	BKK0142-BS2		1	NO MANUAL INTEGRATION
0926	22121448.D	BKK0142-BSD1		1	NO MANUAL INTEGRATION
0944	22121449.D	BKK0142-MS1		1	NO MANUAL INTEGRATION
1002	22121450.D	BKK0142-MSD1		1	NO MANUAL INTEGRATION
1020	22121451.D	22J0513-01		1	NO MANUAL INTEGRATION
1038	22121452.D	22J0513-04		1	NO MANUAL INTEGRATION
1055	22121453.D	22J0535-01		1	trans-Chlordane [C],
1113	22121454.D	22K0429-01		1	NO MANUAL INTEGRATION
1131	22121455.D	22K0429-02		1	Aldrin [C], Heptachlor epoxide b [C], trans-Chlordane [C],
1149	22121456.D	22K0429-03		1	Aldrin [C],

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b\B20221214.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1207	22121457.D	SEQ-PEM3		1	NO MANUAL INTEGRATION
1225	22121458.D	SEQ-CCV1		1	NO MANUAL INTEGRATION
1243	22121459.D	SEQ-CCV2		1	NO MANUAL INTEGRATION
1301	22121460.D	SEQ-CCV3		1	NO MANUAL INTEGRATION
1319	22121461.D	SEQ-CCV4		1	NO MANUAL INTEGRATION
1336	22121462.D	BKK0380-BLK1		1	NO MANUAL INTEGRATION
1354	22121463.D	BKK0380-BS1		1	NO MANUAL INTEGRATION
1412	22121464.D	BKK0380-BSD1		1	NO MANUAL INTEGRATION
1430	22121465.D	22K0157-01		1	NO MANUAL INTEGRATION
1448	22121466.D	22K0230-01		1	NO MANUAL INTEGRATION
1506	22121467.D	22K0231-01		1	NO MANUAL INTEGRATION
1524	22121468.D	BKK0382-BLK1		1	NO MANUAL INTEGRATION
1542	22121469.D	BKK0382-BS1		1	NO MANUAL INTEGRATION
1600	22121470.D	BKK0382-BS2		1	NO MANUAL INTEGRATION
1618	22121471.D	BKK0382-BSD1		1	NO MANUAL INTEGRATION
1635	22121472.D	22K0075-01		1	NO MANUAL INTEGRATION
1653	22121473.D	SEQ-PEM4		1	NO MANUAL INTEGRATION
1711	22121474.D	SEQ-CCV5		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20221214.b\B20221214.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1729	22121475.D	SEQ-CCV6		1	NO MANUAL INTEGRATION
1747	22121476.D	SEQ-CCV7		1	NO MANUAL INTEGRATION
1805	22121477.D	SEQ-CCV8		1	NO MANUAL INTEGRATION
1823	22121478.D	BKK0537-BLK1		1	NO MANUAL INTEGRATION
1840	22121479.D	BKK0537-BS1		1	NO MANUAL INTEGRATION
1858	22121480.D	BKK0537-BS2		1	NO MANUAL INTEGRATION
1916	22121481.D	22K0194-01		1	NO MANUAL INTEGRATION
1934	22121482.D	22K0194-01RE1	10	1	NO MANUAL INTEGRATION
1952	22121483.D	SEQ-PEM5		1	NO MANUAL INTEGRATION
2010	22121484.D	SEQ-CCV9		1	NO MANUAL INTEGRATION
2027	22121485.D	SEQ-CCVA		1	NO MANUAL INTEGRATION
2045	22121486.D	SEQ-CCVB		1	NO MANUAL INTEGRATION
2103	22121487.D	SEQ-CCVC		1	NO MANUAL INTEGRATION

Security Status Report

Date: 17-Dec-2022 10:57

22121401.D	Data Locked	jrains, 17-Dec-2022 10:57
22121402.D	Data Locked	jrains, 17-Dec-2022 10:57
22121403.D	Data Locked	jrains, 17-Dec-2022 10:57
22121404.D	Data Locked	jrains, 17-Dec-2022 10:57
22121405.D	Data Locked	jrains, 17-Dec-2022 10:57
22121406.D	Data Locked	jrains, 17-Dec-2022 10:57
22121407.D	Data Locked	jrains, 17-Dec-2022 10:57
22121408.D	Data Locked	jrains, 17-Dec-2022 10:57
22121409.D	Data Locked	jrains, 17-Dec-2022 10:57
22121410.D	Data Locked	jrains, 17-Dec-2022 10:57
22121411.D	Data Locked	jrains, 17-Dec-2022 10:57
22121412.D	Data Locked	jrains, 17-Dec-2022 10:57
22121413.D	Data Locked	jrains, 17-Dec-2022 10:57
22121414.D	Data Locked	jrains, 17-Dec-2022 10:57
22121415.D	Data Locked	jrains, 17-Dec-2022 10:57
22121416.D	Data Locked	jrains, 17-Dec-2022 10:57
22121417.D	Data Locked	jrains, 17-Dec-2022 10:57
22121418.D	Data Locked	jrains, 17-Dec-2022 10:57
22121419.D	Data Locked	jrains, 17-Dec-2022 10:57
22121420.D	Data Locked	jrains, 17-Dec-2022 10:57
22121421.D	Data Locked	jrains, 17-Dec-2022 10:57
22121422.D	Data Locked	jrains, 17-Dec-2022 10:57
22121423.D	Data Locked	jrains, 17-Dec-2022 10:57
22121424.D	Data Locked	jrains, 17-Dec-2022 10:57
22121425.D	Data Locked	jrains, 17-Dec-2022 10:57
22121426.D	Data Locked	jrains, 17-Dec-2022 10:57
22121427.D	Data Locked	jrains, 17-Dec-2022 10:57
22121428.D	Data Locked	jrains, 17-Dec-2022 10:57
22121429.D	Data Locked	jrains, 17-Dec-2022 10:57
22121430.D	Data Locked	jrains, 17-Dec-2022 10:57
22121431.D	Data Locked	jrains, 17-Dec-2022 10:57
22121432.D	Data Locked	jrains, 17-Dec-2022 10:57
22121433.D	Data Locked	jrains, 17-Dec-2022 10:57
22121434.D	Data Locked	jrains, 17-Dec-2022 10:57

Dual Column

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8081B

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLC0442
Instrument: ECD6
Calibration: FL00041

Sample Name	Lab Sample ID	Column 1 File ID	Column 2 File ID	Matrix	Analysis Date/Time
Performance Mix	SLC0442-PEM1	23032405.D	23032405.D	NA	03/24/23 17:09
Initial Cal Check	SLC0442-ICV1	23032406.D	23032406.D	NA	03/24/23 17:27
Performance Mix	SLC0442-PEM2	23032422.D	23032422.D	NA	03/24/23 22:13
Calibration Check	SLC0442-CCV1	23032423.D	23032423.D	NA	03/24/23 22:31
Performance Mix	SLC0442-PEM3	23032437.D	23032437.D	NA	03/25/23 02:42
Calibration Check	SLC0442-CCV3	23032438.D	23032438.D	NA	03/25/23 03:00
Blank	BLC0107-BLK1	23032439.D	23032439.D	Solid	03/25/23 03:18
LCS	BLC0107-BS1	23032440.D	23032440.D	Solid	03/25/23 03:35
LCS Dup	BLC0107-BSD1	23032441.D	23032441.D	Solid	03/25/23 03:53
LDW23-SS1000	23C0071-01	23032442.D	23032442.D	Solid	03/25/23 04:11
LDW23-SS1037	23C0071-02	23032443.D	23032443.D	Solid	03/25/23 04:29
LDW23-SS1036	23C0071-03	23032444.D	23032444.D	Solid	03/25/23 04:47
LDW23-SS1044	23C0071-04	23032445.D	23032445.D	Solid	03/25/23 05:05
LDW23-SS1048	23C0071-05	23032446.D	23032446.D	Solid	03/25/23 05:23
LDW23-SS1054	23C0071-06	23032447.D	23032447.D	Solid	03/25/23 05:41
LDW23-SS1054	BLC0107-MS1	23032448.D	23032448.D	Solid	03/25/23 05:59
LDW23-SS1054	BLC0107-MSD1	23032449.D	23032449.D	Solid	03/25/23 06:17
Performance Mix	SLC0442-PEM4	23032457.D	23032457.D	NA	03/25/23 08:40
Calibration Check	SLC0442-CCV4	23032458.D	23032458.D	NA	03/25/23 08:58

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS SEQUENCE

SLC0442

Instrument: ECD6
Calibration ID: FL00041

Printed: 3/28/2023 3:15:01PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
SLC0442-PEM1	QC		1		L002116	L000844		
SLC0442-ICV1	QC		2		L000845	L000844		
SLC0442-PEM2	QC		3		L002116	L000844		
SLC0442-CCV1	QC		4		L000845	L000844		
BLC0183-BLK1	QC		5			L000844		
BLC0183-BS1	QC		6			L000844		
BLC0183-BSD1	QC		7			L000844		
23C0108-02	8081B Pest (PSDDA)	A 01	8			L000844	Anchor QEA, LLC	
BLC0183-MS1	QC		9			L000844		
BLC0183-MSD1	QC		10			L000844		
23C0108-06	8081B Pest (PSDDA)	A 01	11			L000844	Anchor QEA, LLC	
23C0108-07	8081B Pest (PSDDA)	A 01	12			L000844	Anchor QEA, LLC	
23C0108-08	8081B Pest (PSDDA)	A 01	13			L000844	Anchor QEA, LLC	
23C0108-09	8081B Pest (PSDDA)	A 01	14			L000844	Anchor QEA, LLC	
23C0109-02	8081B Pest (PSDDA)	A 01	15			L000844	Anchor QEA, LLC	
23C0109-03	8081B Pest (PSDDA)	A 01	16			L000844	Anchor QEA, LLC	
SLC0442-PEM3	QC		17		L002116	L000844		
SLC0442-CCV3	QC		18		L000845	L000844		
BLC0107-BLK1	QC		19			L000844		
BLC0107-BS1	QC		20			L000844		
BLC0107-BSD1	QC		21			L000844		

Samples Loaded By Date

Data Processed By Date

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS SEQUENCE

SLC0442

Instrument: ECD6
Calibration ID: FL00041

Printed: 3/28/2023 3:15:01PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
23C0071-01	8081B Pest (PSDDA)	A 01	22			L000844	Anchor QEA, LLC	
23C0071-02	8081B Pest (PSDDA)	A 01	23			L000844	Anchor QEA, LLC	
23C0071-03	8081B Pest (PSDDA)	A 01	24			L000844	Anchor QEA, LLC	
23C0071-04	8081B Pest (PSDDA)	A 01	25			L000844	Anchor QEA, LLC	
23C0071-05	8081B Pest (PSDDA)	A 01	26			L000844	Anchor QEA, LLC	
23C0071-06	8081B Pest (PSDDA)	A 01	27			L000844	Anchor QEA, LLC	
BLC0107-MS1	QC		28			L000844		
BLC0107-MSD1	QC		29			L000844		
BLC0155-BLK1	QC		30			L000844		
BLC0155-BS1	QC		31			L000844		
BLC0155-BSD1	QC		32			L000844		
BLC0155-MRL1	QC		33			L000844		
23B0276-01RE1	8081B Pest (PSDDA)	A 02	34			L000844	Anchor QEA, LLC	From BLB0422 by CTO on 07-Mar-20
BLC0155-MS1	QC		35			L000844		
BLC0155-MSD1	QC		36			L000844		
SLC0442-PEM4	QC		37		L002116	L000844		
SLC0442-CCV4	QC		38		L000845	L000844		

Samples Loaded By Date

Data Processed By Date

GC LOG SUMMARY FOR DATABATCH - \ecd6.i\20230324.b\B20230324.b

	Inject Date/Time	Filename	DF	LabID	ClientID
1	24-MAR-2023 15:50	23032401.D	1	RINSE	
2	24-MAR-2023 16:08	23032402.D	1	SEQ-PEM1	
3	24-MAR-2023 16:26	23032403.D	1	SEQ-ICV1INDA1	
4	24-MAR-2023 16:51	23032404.D	1	SEQ-PEM1	
5	24-MAR-2023 17:09	23032405.D	1	SEQ-PEM1	
6	24-MAR-2023 17:27	23032406.D	1	SEQ-ICV1INDA1	
7	24-MAR-2023 17:45	23032407.D	1	SEQ-ICV2WNDA1	
8	24-MAR-2023 18:02	23032408.D	1	CLC0059-GPC2	
9	24-MAR-2023 18:20	23032409.D	1	CLC0059-GPC3	
10	24-MAR-2023 18:38	23032410.D	1	BLC0116-BLK1	
11	24-MAR-2023 18:56	23032411.D	1	BLC0116-BS1	
12	24-MAR-2023 19:14	23032412.D	1	BLC0116-BSD1	
13	24-MAR-2023 19:32	23032413.D	1	23C0035-01	
14	24-MAR-2023 19:50	23032414.D	1	BLC0300-BLK1	
15	24-MAR-2023 20:08	23032415.D	1	BLC0300-BS1	
16	24-MAR-2023 20:26	23032416.D	1	23C0258-01	
17	24-MAR-2023 20:44	23032417.D	1	BLC0300-MS1	
18	24-MAR-2023 21:02	23032418.D	1	BLC0300-MSD1	
19	24-MAR-2023 21:20	23032419.D	1	23C0258-02	
20	24-MAR-2023 21:38	23032420.D	1	23C0258-03	
21	24-MAR-2023 21:56	23032421.D	1	23C0258-04	
22	24-MAR-2023 22:13	23032422.D	1	SEQ-PEM2	
23	24-MAR-2023 22:31	23032423.D	1	SEQ-CCV1INDA1	
24	24-MAR-2023 22:49	23032424.D	1	SEQ-CCV2WNDA1	
25	24-MAR-2023 23:07	23032425.D	1	BLC0183-BLK1	
26	24-MAR-2023 23:25	23032426.D	1	BLC0183-BS1	
27	24-MAR-2023 23:43	23032427.D	1	BLC0183-BSD1	
28	25-MAR-2023 00:01	23032428.D	1	23C0108-02	
29	25-MAR-2023 00:19	23032429.D	1	BLC0183-MS1	
30	25-MAR-2023 00:36	23032430.D	1	BLC0183-MSD1	
31	25-MAR-2023 00:54	23032431.D	1	23C0108-06	
32	25-MAR-2023 01:12	23032432.D	1	23C0108-07	
33	25-MAR-2023 01:30	23032433.D	1	23C0108-08	
34	25-MAR-2023 01:48	23032434.D	1	23C0108-09	
35	25-MAR-2023 02:06	23032435.D	1	23C0109-02	
36	25-MAR-2023 02:24	23032436.D	1	23C0109-03	
37	25-MAR-2023 02:42	23032437.D	1	SEQ-PEM3	
38	25-MAR-2023 03:00	23032438.D	1	SEQ-CCV1INDA2	
39	25-MAR-2023 03:18	23032439.D	1	BLC0107-BLK1	
40	25-MAR-2023 03:35	23032440.D	1	BLC0107-BS1	
41	25-MAR-2023 03:53	23032441.D	1	BLC0107-BSD1	
42	25-MAR-2023 04:11	23032442.D	1	23C0071-01	
43	25-MAR-2023 04:29	23032443.D	1	23C0071-02	
44	25-MAR-2023 04:47	23032444.D	1	23C0071-03	
45	25-MAR-2023 05:05	23032445.D	1	23C0071-04	
46	25-MAR-2023 05:23	23032446.D	1	23C0071-05	
47	25-MAR-2023 05:41	23032447.D	1	23C0071-06	
48	25-MAR-2023 05:59	23032448.D	1	BLC0107-MS1	
49	25-MAR-2023 06:17	23032449.D	1	BLC0107-MSD1	
50	25-MAR-2023 06:35	23032450.D	1	BLC0155-BLK1	

GC LOG SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20230324.b\B20230324.

	Inject Date/Time	Filename	DF	LabID	ClientID
51	25-MAR-2023 06:53	23032451.D	1	BLC0155-BS1	
52	25-MAR-2023 07:11	23032452.D	1	BLC0155-BSD1	
53	25-MAR-2023 07:28	23032453.D	1	BLC0155-MRL1	
54	25-MAR-2023 07:46	23032454.D	1	23B0276-01	
55	25-MAR-2023 08:04	23032455.D	1	BLC0155-MS1	
56	25-MAR-2023 08:22	23032456.D	1	BLC0155-MSD1	
57	25-MAR-2023 08:40	23032457.D	1	SEQ-PEM4	
58	25-MAR-2023 08:58	23032458.D	1	SEQ-CCV1INDA3	

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20230324.b

ARI Job No.: RINS Method: PEST.m Instrument: ecd6.i Date: 24-MAR-2023

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1550	23032401.D	RINSE		1	NO MANUAL INTEGRATION
1608	23032402.D	SEQ-PEM1		1	NO MANUAL INTEGRATION
1626	23032403.D	SEQ-ICV1INDA1		1	NO MANUAL INTEGRATION
1651	23032404.D	SEQ-PEM1		1	NO MANUAL INTEGRATION
1709	23032405.D	SEQ-PEM1		1	NO MANUAL INTEGRATION
1727	23032406.D	SEQ-ICV1INDA1		1	NO MANUAL INTEGRATION
1745	23032407.D	SEQ-ICV2WNDA1		1	NO MANUAL INTEGRATION
1802	23032408.D	CLC0059-GPC2		1	NO MANUAL INTEGRATION
1820	23032409.D	CLC0059-GPC3		1	NO MANUAL INTEGRATION
1838	23032410.D	BLC0116-BLK1		1	Hexachlorobutadiene,
1856	23032411.D	BLC0116-BS1		1	1Bromo-2nitrobenzene, alpha-BHC, beta-BHC, delta-BHC, gamma-BHC (Lindane), Heptachlor, Aldrin, Hexachlorobutadiene, Hexachlorobenzene, Tetrachloro-m-xylene,
1914	23032412.D	BLC0116-BSD1		1	1Bromo-2nitrobenzene, alpha-BHC, beta-BHC, delta-BHC, gamma-BHC (Lindane), Hexachlorobutadiene, Hexachlorobenzene, Tetrachloro-m-xylene,
1932	23032413.D	23C0035-01		1	1Bromo-2nitrobenzene, Aldrin, Endosulfan I, Oxychlordane, Tetrachloro-m-xylene,
1950	23032414.D	BLC0300-BLK1		1	1Bromo-2nitrobenzene, Hexachlorobenzene, Tetrachloro-m-xylene,
2008	23032415.D	BLC0300-BS1		1	1Bromo-2nitrobenzene, alpha-BHC, beta-BHC, delta-BHC, gamma-BHC (Lindane), Heptachlor, Hexachlorobutadiene, Hexachlorobenzene, Tetrachloro-m-xylene,
2026	23032416.D	23C0258-01		1	1Bromo-2nitrobenzene, cis-Chlordane, Tetrachloro-m-xylene,
2044	23032417.D	BLC0300-MS1		1	1Bromo-2nitrobenzene, alpha-BHC, beta-BHC, delta-BHC, gamma-BHC (Lindane), Heptachlor, Aldrin, Hexachlorobutadiene, Hexachlorobenzene, Tetrachloro-m-xylene,

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20230324.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
2102	23032418.D	BLC0300-MSD1		1	1Bromo-2nitrobenzene, Hexachlorobutadiene,
2120	23032419.D	23C0258-02		1	1Bromo-2nitrobenzene, Heptachlor epoxide b, cis-Chlordane, Tetrachloro-m-xylene,
2138	23032420.D	23C0258-03		1	1Bromo-2nitrobenzene, trans-Chlordane, cis-Chlordane, Tetrachloro-m-xylene,
2156	23032421.D	23C0258-04		1	1Bromo-2nitrobenzene, Endrin ketone, Tetrachloro-m-xylene,
2213	23032422.D	SEQ-PEM2		1	NO MANUAL INTEGRATION
2231	23032423.D	SEQ-CCV1INDA1		1	NO MANUAL INTEGRATION
2249	23032424.D	SEQ-CCV2WNDA1		1	NO MANUAL INTEGRATION
2307	23032425.D	BLC0183-BLK1		1	NO MANUAL INTEGRATION
2325	23032426.D	BLC0183-BS1		1	1Bromo-2nitrobenzene, Hexachlorobenzene, Tetrachloro-m-xylene,
2343	23032427.D	BLC0183-BSD1		1	1Bromo-2nitrobenzene, Hexachlorobenzene, Tetrachloro-m-xylene,
0001	23032428.D	23C0108-02		1	1Bromo-2nitrobenzene, Hexachlorobenzene, Tetrachloro-m-xylene,
0019	23032429.D	BLC0183-MS1		1	1Bromo-2nitrobenzene, Hexachlorobenzene, Tetrachloro-m-xylene,
0036	23032430.D	BLC0183-MSD1		1	1Bromo-2nitrobenzene, Hexachlorobenzene, Tetrachloro-m-xylene,
0054	23032431.D	23C0108-06		1	1Bromo-2nitrobenzene, Hexachlorobenzene, Tetrachloro-m-xylene,
0112	23032432.D	23C0108-07		1	1Bromo-2nitrobenzene, Hexachlorobenzene, Tetrachloro-m-xylene,
0130	23032433.D	23C0108-08		1	1Bromo-2nitrobenzene, Hexachlorobenzene, Tetrachloro-m-xylene,
0148	23032434.D	23C0108-09		1	1Bromo-2nitrobenzene, Hexachlorobenzene, Tetrachloro-m-xylene,
0206	23032435.D	23C0109-02		1	1Bromo-2nitrobenzene, Hexachlorobenzene, Tetrachloro-m-xylene,

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20230324.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0224	23032436.D	23C0109-03		1	1Bromo-2nitrobenzene, Hexachlorobenzene, Tetrachloro-m-xylene,
0242	23032437.D	SEQ-PEM3		1	NO MANUAL INTEGRATION
0300	23032438.D	SEQ-CCV1INDA2		1	NO MANUAL INTEGRATION
0318	23032439.D	BLC0107-BLK1		1	NO MANUAL INTEGRATION
0335	23032440.D	BLC0107-BS1		1	1Bromo-2nitrobenzene, Hexachlorobenzene, Tetrachloro-m-xylene,
0353	23032441.D	BLC0107-BSD1		1	1Bromo-2nitrobenzene, Hexachlorobenzene, Tetrachloro-m-xylene,
0411	23032442.D	23C0071-01		1	1Bromo-2nitrobenzene, Hexachlorobenzene, Tetrachloro-m-xylene,
0429	23032443.D	23C0071-02		1	1Bromo-2nitrobenzene, Hexachlorobenzene, Tetrachloro-m-xylene,
0447	23032444.D	23C0071-03		1	1Bromo-2nitrobenzene, Hexachlorobenzene, Tetrachloro-m-xylene,
0505	23032445.D	23C0071-04		1	1Bromo-2nitrobenzene, Hexachlorobenzene, Tetrachloro-m-xylene,
0523	23032446.D	23C0071-05		1	1Bromo-2nitrobenzene, Hexachlorobenzene, Tetrachloro-m-xylene,
0541	23032447.D	23C0071-06		1	1Bromo-2nitrobenzene, Hexachlorobenzene, Tetrachloro-m-xylene,
0559	23032448.D	BLC0107-MS1		1	1Bromo-2nitrobenzene, Hexachlorobenzene, Tetrachloro-m-xylene,
0617	23032449.D	BLC0107-MSD1		1	1Bromo-2nitrobenzene, Hexachlorobenzene, Tetrachloro-m-xylene,
0635	23032450.D	BLC0155-BLK1		1	1Bromo-2nitrobenzene, Tetrachloro-m-xylene,
0653	23032451.D	BLC0155-BS1		1	1Bromo-2nitrobenzene, Tetrachloro-m-xylene,
0711	23032452.D	BLC0155-BSD1		1	1Bromo-2nitrobenzene, Hexachlorobenzene, Tetrachloro-m-xylene,
0728	23032453.D	BLC0155-MRL1		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20230324.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0746	23032454.D	23B0276-01		1	1Bromo-2nitrobenzene, Hexachlorobenzene,
0804	23032455.D	BLC0155-MS1		1	1Bromo-2nitrobenzene, Hexachlorobenzene, Tetrachloro-m-xylene,
0822	23032456.D	BLC0155-MSD1		1	1Bromo-2nitrobenzene, Hexachlorobenzene, Tetrachloro-m-xylene,
0840	23032457.D	SEQ-PEM4		1	NO MANUAL INTEGRATION
0858	23032458.D	SEQ-CCV1INDA3		1	NO MANUAL INTEGRATION
1550	23032401.D	RINSE		1	NO MANUAL INTEGRATION
1608	23032402.D	SEQ-PEM1		1	NO MANUAL INTEGRATION
1626	23032403.D	SEQ-ICV1INDA1		1	NO MANUAL INTEGRATION
1651	23032404.D	SEQ-PEM1		1	NO MANUAL INTEGRATION
1709	23032405.D	SEQ-PEM1		1	NO MANUAL INTEGRATION
1727	23032406.D	SEQ-ICV1INDA1		1	NO MANUAL INTEGRATION
1745	23032407.D	SEQ-ICV2WNDA1		1	NO MANUAL INTEGRATION
1802	23032408.D	CLC0059-GPC2		1	NO MANUAL INTEGRATION
1820	23032409.D	CLC0059-GPC3		1	NO MANUAL INTEGRATION
1838	23032410.D	BLC0116-BLK1		1	NO MANUAL INTEGRATION
1856	23032411.D	BLC0116-BS1		1	1Bromo-2nitrobenzene [C], alpha-BHC [C], beta-BHC [C], gamma-BHC (Lindane) [C], Hexachlorobenzene [C], Tetrachloro-m-xylene [C],
1914	23032412.D	BLC0116-BSD1		1	1Bromo-2nitrobenzene [C], alpha-BHC [C], Hexachlorobenzene [C], Tetrachloro-m-xylene [C],
1932	23032413.D	23C0035-01		1	Endosulfan I [C], Dieldrin [C], 4,4'-DDT [C], Methoxychlor [C], Endrin ketone [C], Oxychlordane [C], Decachlorobiphenyl [C],

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20230324.b\B20230324.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1950	23032414.D	BLC0300-BLK1		1	1Bromo-2nitrobenzene [C], Hexabromobiphenyl[C], Tetrachloro-m-xylene [C], Decachlorobiphenyl [C],
2008	23032415.D	BLC0300-BS1		1	1Bromo-2nitrobenzene [C], Tetrachloro-m-xylene [C],
2026	23032416.D	23C0258-01		1	1Bromo-2nitrobenzene [C], Tetrachloro-m-xylene [C],
2044	23032417.D	BLC0300-MS1		1	1Bromo-2nitrobenzene [C], alpha-BHC [C], Hexachlorobenzene [C], Tetrachloro-m-xylene [C],
2102	23032418.D	BLC0300-MSD1		1	NO MANUAL INTEGRATION
2120	23032419.D	23C0258-02		1	1Bromo-2nitrobenzene [C], Heptachlor epoxide b [C], Tetrachloro-m-xylene [C],
2138	23032420.D	23C0258-03		1	1Bromo-2nitrobenzene [C], Tetrachloro-m-xylene [C],
2156	23032421.D	23C0258-04		1	1Bromo-2nitrobenzene [C], Tetrachloro-m-xylene [C],
2213	23032422.D	SEQ-PEM2		1	NO MANUAL INTEGRATION
2231	23032423.D	SEQ-CCV1INDA1		1	NO MANUAL INTEGRATION
2249	23032424.D	SEQ-CCV2WNDA1		1	NO MANUAL INTEGRATION
2307	23032425.D	BLC0183-BLK1		1	NO MANUAL INTEGRATION
2325	23032426.D	BLC0183-BS1		1	1Bromo-2nitrobenzene [C], Tetrachloro-m-xylene [C],
2343	23032427.D	BLC0183-BSD1		1	1Bromo-2nitrobenzene [C],
0001	23032428.D	23C0108-02		1	1Bromo-2nitrobenzene [C], Tetrachloro-m-xylene [C],
0019	23032429.D	BLC0183-MS1		1	1Bromo-2nitrobenzene [C], Hexachlorobenzene [C], Tetrachloro-m-xylene [C],
0036	23032430.D	BLC0183-MSD1		1	NO MANUAL INTEGRATION
0054	23032431.D	23C0108-06		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20230324.b\B20230324.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0112	23032432.D	23C0108-07		1	Hexachlorobenzene [C],
0130	23032433.D	23C0108-08		1	NO MANUAL INTEGRATION
0148	23032434.D	23C0108-09		1	Hexachlorobenzene [C],
0206	23032435.D	23C0109-02		1	Hexachlorobenzene [C],
0224	23032436.D	23C0109-03		1	Hexachlorobenzene [C],
0242	23032437.D	SEQ-PEM3		1	NO MANUAL INTEGRATION
0300	23032438.D	SEQ-CCV1INDA2		1	NO MANUAL INTEGRATION
0318	23032439.D	BLC0107-BLK1		1	NO MANUAL INTEGRATION
0335	23032440.D	BLC0107-BS1		1	NO MANUAL INTEGRATION
0353	23032441.D	BLC0107-BSD1		1	NO MANUAL INTEGRATION
0411	23032442.D	23C0071-01		1	NO MANUAL INTEGRATION
0429	23032443.D	23C0071-02		1	NO MANUAL INTEGRATION
0447	23032444.D	23C0071-03		1	NO MANUAL INTEGRATION
0505	23032445.D	23C0071-04		1	NO MANUAL INTEGRATION
0523	23032446.D	23C0071-05		1	NO MANUAL INTEGRATION
0541	23032447.D	23C0071-06		1	NO MANUAL INTEGRATION
0559	23032448.D	BLC0107-MS1		1	NO MANUAL INTEGRATION
0617	23032449.D	BLC0107-MSD1		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd6.i\20230324.b\B20230324.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0635	23032450.D	BLC0155-BLK1		1	NO MANUAL INTEGRATION
0653	23032451.D	BLC0155-BS1		1	NO MANUAL INTEGRATION
0711	23032452.D	BLC0155-BSD1		1	NO MANUAL INTEGRATION
0728	23032453.D	BLC0155-MRL1		1	NO MANUAL INTEGRATION
0746	23032454.D	23B0276-01		1	NO MANUAL INTEGRATION
0804	23032455.D	BLC0155-MS1		1	Hexachlorobenzene [C],
0822	23032456.D	BLC0155-MSD1		1	NO MANUAL INTEGRATION
0840	23032457.D	SEQ-PEM4		1	NO MANUAL INTEGRATION
0858	23032458.D	SEQ-CCV1INDA3		1	NO MANUAL INTEGRATION

Security Status Report

Date: 28-Mar-2023 15:17

23032401.D	Data Locked	alfonso, 28-Mar-2023 15:17
23032402.D	Data Locked	alfonso, 28-Mar-2023 15:17
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23032458.D	Data Locked	alfonso, 28-Mar-2023 15:17

SURROGATE RECOVERY AND RT SUMMARY
EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG/WO:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SKL0233	Instrument:	ECD6
Calibration:	FL00041	Calibration Date:	12/15/2022

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SKL0233-PEM1 (Water)				Lab File ID: 22121404.D			Analyzed: 12/14/22 20:20	
Decachlorobiphenyl	160.00	83.0	0 - 200	9.355	9.354666	0.0003	+/-0.1	
Decachlorobiphenyl [2C]	160.00	83.5	0 - 200	10.466	10.4655	0.0005	+/-0.1	
Tetrachlorometaxylene	160.00	78.1	0 - 200	3.828	3.827833	0.0002	+/-0.1	
Tetrachlorometaxylene [2C]	160.00	83.5	0 - 200	4.22	4.219666	0.0003	+/-0.1	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8081B

Laboratory: Analytical Resources, LLC
SDG/WO: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLC0442
Instrument: ECD6
Calibration: FL00041
Calibration Date: 12/15/2022

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SLC0442-PEM1 (Water)				Lab File ID: 23032405.D			Analyzed: 03/24/23 17:09	
Decachlorobiphenyl	40.000	87.2	0 - 200	9.406	9.354666	0.0513	+/-0.1	
Decachlorobiphenyl [2C]	40.000	86.5	0 - 200	10.359	10.4655	-0.1065	+/-0.1	
Tetrachlorometaxylene	40.000	66.2	0 - 200	3.848	3.827833	0.0202	+/-0.1	
Tetrachlorometaxylene [2C]	40.000	86.7	0 - 200	4.169	4.219666	-0.0507	+/-0.1	
SLC0442-ICV1 (Water)				Lab File ID: 23032406.D			Analyzed: 03/24/23 17:27	
Decachlorobiphenyl	40.000	85.5	80 - 120	9.406	9.354666	0.0513	+/-0.1	
Decachlorobiphenyl [2C]	40.000	84.6	80 - 120	10.36	10.4655	-0.1055	+/-0.1	
Tetrachlorometaxylene	40.000	61.8	80 - 120	3.848	3.827833	0.0202	+/-0.1	*
Tetrachlorometaxylene [2C]	40.000	89.0	80 - 120	4.169	4.219666	-0.0507	+/-0.1	
SLC0442-PEM2 (Water)				Lab File ID: 23032422.D			Analyzed: 03/24/23 22:13	
Decachlorobiphenyl	40.000	86.5	0 - 200	9.405	9.354666	0.0503	+/-0.1	
Decachlorobiphenyl [2C]	40.000	90.5	0 - 200	10.359	10.4655	-0.1065	+/-0.1	
Tetrachlorometaxylene	40.000	66.7	0 - 200	3.847	3.827833	0.0192	+/-0.1	
Tetrachlorometaxylene [2C]	40.000	84.8	0 - 200	4.169	4.219666	-0.0507	+/-0.1	
SLC0442-CCV1 (Water)				Lab File ID: 23032423.D			Analyzed: 03/24/23 22:31	
Decachlorobiphenyl	40.000	85.8	80 - 120	9.405	9.354666	0.0503	+/-0.1	
Decachlorobiphenyl [2C]	40.000	87.1	80 - 120	10.359	10.4655	-0.1065	+/-0.1	
Tetrachlorometaxylene	40.000	61.7	80 - 120	3.848	3.827833	0.0202	+/-0.1	*
Tetrachlorometaxylene [2C]	40.000	85.3	80 - 120	4.169	4.219666	-0.0507	+/-0.1	
SLC0442-PEM3 (Water)				Lab File ID: 23032437.D			Analyzed: 03/25/23 02:42	
Decachlorobiphenyl	40.000	101	0 - 200	9.405	9.354666	0.0503	+/-0.1	
Decachlorobiphenyl [2C]	40.000	95.6	0 - 200	10.358	10.4655	-0.1075	+/-0.1	
Tetrachlorometaxylene	40.000	68.5	0 - 200	3.848	3.827833	0.0202	+/-0.1	
Tetrachlorometaxylene [2C]	40.000	85.1	0 - 200	4.169	4.219666	-0.0507	+/-0.1	
SLC0442-CCV3 (Water)				Lab File ID: 23032438.D			Analyzed: 03/25/23 03:00	
Decachlorobiphenyl	40.000	83.6	80 - 120	9.405	9.354666	0.0503	+/-0.1	
Decachlorobiphenyl [2C]	40.000	89.6	80 - 120	10.358	10.4655	-0.1075	+/-0.1	
Tetrachlorometaxylene	40.000	61.8	80 - 120	3.847	3.827833	0.0192	+/-0.1	*
Tetrachlorometaxylene [2C]	40.000	85.8	80 - 120	4.169	4.219666	-0.0507	+/-0.1	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8081B

Laboratory: Analytical Resources, LLC
SDG/WO: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLC0442
Instrument: ECD6
Calibration: FL00041
Calibration Date: 12/15/2022

Surrogate Compound	Spike Level ug/kg wet	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
BLC0107-BLK1 (Solid)				Lab File ID: 23032439.D			Analyzed: 03/25/23 03:18	
Decachlorobiphenyl	8.0000	87.2	30 - 160	9.403	9.354666	0.0483	+/-0.1	
Decachlorobiphenyl [2C]	8.0000	86.8	30 - 160	10.357	10.4655	-0.1085	+/-0.1	
Tetrachlorometaxylene	8.0000	70.4	30 - 160	3.849	3.827833	0.0212	+/-0.1	
Tetrachlorometaxylene [2C]	8.0000	71.1	30 - 160	4.168	4.219666	-0.0517	+/-0.1	
BLC0107-BS1 (Solid)				Lab File ID: 23032440.D			Analyzed: 03/25/23 03:35	
Decachlorobiphenyl	8.0000	85.8	30 - 160	9.403	9.354666	0.0483	+/-0.1	
Decachlorobiphenyl [2C]	8.0000	86.5	30 - 160	10.356	10.4655	-0.1095	+/-0.1	
Tetrachlorometaxylene	8.0000	73.7	30 - 160	3.846	3.827833	0.0182	+/-0.1	
Tetrachlorometaxylene [2C]	8.0000	72.7	30 - 160	4.165	4.219666	-0.0547	+/-0.1	
BLC0107-BSD1 (Solid)				Lab File ID: 23032441.D			Analyzed: 03/25/23 03:53	
Decachlorobiphenyl	8.0000	80.2	30 - 160	9.403	9.354666	0.0483	+/-0.1	
Decachlorobiphenyl [2C]	8.0000	83.6	30 - 160	10.357	10.4655	-0.1085	+/-0.1	
Tetrachlorometaxylene	8.0000	68.2	30 - 160	3.846	3.827833	0.0182	+/-0.1	
Tetrachlorometaxylene [2C]	8.0000	68.0	30 - 160	4.165	4.219666	-0.0547	+/-0.1	
23C0071-01 (Solid)				Lab File ID: 23032442.D			Analyzed: 03/25/23 04:11	
Decachlorobiphenyl	7.9802	89.2	30 - 160	9.407	9.354666	0.0523	+/-0.1	
Decachlorobiphenyl [2C]	7.9802	90.4	30 - 160	10.36	10.4655	-0.1055	+/-0.1	
Tetrachlorometaxylene	7.9802	72.5	30 - 160	3.845	3.827833	0.0172	+/-0.1	
Tetrachlorometaxylene [2C]	7.9802	68.7	30 - 160	4.165	4.219666	-0.0547	+/-0.1	
23C0071-02 (Solid)				Lab File ID: 23032443.D			Analyzed: 03/25/23 04:29	
Decachlorobiphenyl	7.9856	93.2	30 - 160	9.405	9.354666	0.0503	+/-0.1	
Decachlorobiphenyl [2C]	7.9856	85.9	30 - 160	10.359	10.4655	-0.1065	+/-0.1	
Tetrachlorometaxylene	7.9856	73.7	30 - 160	3.845	3.827833	0.0172	+/-0.1	
Tetrachlorometaxylene [2C]	7.9856	73.4	30 - 160	4.165	4.219666	-0.0547	+/-0.1	
23C0071-03 (Solid)				Lab File ID: 23032444.D			Analyzed: 03/25/23 04:47	
Decachlorobiphenyl	7.9809	88.8	30 - 160	9.406	9.354666	0.0513	+/-0.1	
Decachlorobiphenyl [2C]	7.9809	84.1	30 - 160	10.36	10.4655	-0.1055	+/-0.1	
Tetrachlorometaxylene	7.9809	70.5	30 - 160	3.845	3.827833	0.0172	+/-0.1	
Tetrachlorometaxylene [2C]	7.9809	65.9	30 - 160	4.165	4.219666	-0.0547	+/-0.1	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8081B

Laboratory: Analytical Resources, LLC
SDG/WO: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLC0442
Instrument: ECD6
Calibration: FL00041
Calibration Date: 12/15/2022

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
23C0071-04 (Solid)				Lab File ID: 23032445.D			Analyzed: 03/25/23 05:05	
Decachlorobiphenyl	7.9822	104	30 - 160	9.405	9.354666	0.0503	+/-0.1	
Decachlorobiphenyl [2C]	7.9822	92.9	30 - 160	10.359	10.4655	-0.1065	+/-0.1	
Tetrachlorometaxylene	7.9822	66.4	30 - 160	3.847	3.827833	0.0192	+/-0.1	
Tetrachlorometaxylene [2C]	7.9822	70.4	30 - 160	4.166	4.219666	-0.0537	+/-0.1	
23C0071-05 (Solid)				Lab File ID: 23032446.D			Analyzed: 03/25/23 05:23	
Decachlorobiphenyl	7.9777	90.3	30 - 160	9.407	9.354666	0.0523	+/-0.1	
Decachlorobiphenyl [2C]	7.9777	90.0	30 - 160	10.36	10.4655	-0.1055	+/-0.1	
Tetrachlorometaxylene	7.9777	76.4	30 - 160	3.845	3.827833	0.0172	+/-0.1	
Tetrachlorometaxylene [2C]	7.9777	65.6	30 - 160	4.165	4.219666	-0.0547	+/-0.1	
23C0071-06 (Solid)				Lab File ID: 23032447.D			Analyzed: 03/25/23 05:41	
Decachlorobiphenyl	8.0054	89.4	30 - 160	9.406	9.354666	0.0513	+/-0.1	
Decachlorobiphenyl [2C]	8.0054	82.6	30 - 160	10.36	10.4655	-0.1055	+/-0.1	
Tetrachlorometaxylene	8.0054	68.3	30 - 160	3.845	3.827833	0.0172	+/-0.1	
Tetrachlorometaxylene [2C]	8.0054	65.0	30 - 160	4.165	4.219666	-0.0547	+/-0.1	
BLC0107-MS1 (Solid)				Lab File ID: 23032448.D			Analyzed: 03/25/23 05:59	
Decachlorobiphenyl	7.9990	91.6	30 - 160	9.407	9.354666	0.0523	+/-0.1	
Decachlorobiphenyl [2C]	7.9990	88.6	30 - 160	10.361	10.4655	-0.1045	+/-0.1	
Tetrachlorometaxylene	7.9990	72.8	30 - 160	3.845	3.827833	0.0172	+/-0.1	
Tetrachlorometaxylene [2C]	7.9990	67.6	30 - 160	4.165	4.219666	-0.0547	+/-0.1	
BLC0107-MSD1 (Solid)				Lab File ID: 23032449.D			Analyzed: 03/25/23 06:17	
Decachlorobiphenyl	7.9990	100	30 - 160	9.405	9.354666	0.0503	+/-0.1	
Decachlorobiphenyl [2C]	7.9990	90.7	30 - 160	10.358	10.4655	-0.1075	+/-0.1	
Tetrachlorometaxylene	7.9990	74.4	30 - 160	3.846	3.827833	0.0182	+/-0.1	
Tetrachlorometaxylene [2C]	7.9990	69.5	30 - 160	4.166	4.219666	-0.0537	+/-0.1	
SLC0442-PEM4 (Water)				Lab File ID: 23032457.D			Analyzed: 03/25/23 08:40	
Decachlorobiphenyl	40.000	91.1	0 - 200	9.402	9.354666	0.0473	+/-0.1	
Decachlorobiphenyl [2C]	40.000	88.8	0 - 200	10.356	10.4655	-0.1095	+/-0.1	
Tetrachlorometaxylene	40.000	68.3	0 - 200	3.846	3.827833	0.0182	+/-0.1	
Tetrachlorometaxylene [2C]	40.000	85.5	0 - 200	4.168	4.219666	-0.0517	+/-0.1	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG/WO:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLC0442	Instrument:	ECD6
Calibration:	FL00041	Calibration Date:	12/14/2022

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SLC0442-CCV4 (Water)				Lab File ID: 23032458.D			Analyzed: 03/25/23 08:58	
Decachlorobiphenyl	40.000	84.2	80 - 120	9.402	9.354666	0.0473	+/-0.1	
Decachlorobiphenyl [2C]	40.000	83.4	80 - 120	10.355	10.4655	-0.1105	+/-0.1	
Tetrachlorometaxylene	40.000	62.4	80 - 120	3.846	3.827833	0.0182	+/-0.1	*
Tetrachlorometaxylene [2C]	40.000	84.5	80 - 120	4.167	4.219666	-0.0527	+/-0.1	

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SKL0233	Instrument:	ECD6
		Calibration:	FL00041

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Performance Mix (SKL0233-PEM1)		(Water)		Lab File ID: 22121404.D				Analyzed: 12/14/22 20:20	
1-Bromo-2-Nitrobenzene	683485	3.15	672426	3.15	102	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	619012	9.503	609723	9.504	102	50 - 200	-0.001	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	1005375	3.35	1006482	3.35	100	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	772586	11.054	769764	11.053	100	50 - 200	0.001	+/-0.50	

Analytical Resources, LLC
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8081B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLC0442

SDG: 23C0071
Project: AOC5 MR Phase 1
Instrument: ECD6
Calibration: FL00041

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Performance Mix (SLC0442-PEM1)		(Water)		Lab File ID: 23032405.D				Analyzed: 03/24/23 17:09	
1-Bromo-2-Nitrobenzene	518811	3.162	509297	3.163	102	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl	432866	9.559	429777	9.559	101	50 - 200	0.000	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	687832	3.312	633958	3.312	108	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	451073	10.931	450469	10.931	100	50 - 200	0.000	+/-0.50	
Initial Cal Check (SLC0442-ICV1)		(Water)		Lab File ID: 23032406.D				Analyzed: 03/24/23 17:27	
1-Bromo-2-Nitrobenzene	509297	3.163	509297	3.163	100	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	429777	9.559	429777	9.559	100	50 - 200	0.000	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	633958	3.312	633958	3.312	100	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	450469	10.931	450469	10.931	100	50 - 200	0.000	+/-0.50	
Performance Mix (SLC0442-PEM2)		(Water)		Lab File ID: 23032422.D				Analyzed: 03/24/23 22:13	
1-Bromo-2-Nitrobenzene	529882	3.162	509297	3.163	104	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl	443814	9.559	429777	9.559	103	50 - 200	0.000	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	721391	3.312	633958	3.312	114	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	452983	10.931	450469	10.931	101	50 - 200	0.000	+/-0.50	
Performance Mix (SLC0442-PEM3)		(Water)		Lab File ID: 23032437.D				Analyzed: 03/25/23 02:42	
1-Bromo-2-Nitrobenzene	501513	3.162	509297	3.163	98	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl	359734	9.559	429777	9.559	84	50 - 200	0.000	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	663308	3.312	633958	3.312	105	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	397193	10.93	450469	10.931	88	50 - 200	-0.001	+/-0.50	
Blank (BLC0107-BLK1)		(Solid)		Lab File ID: 23032439.D				Analyzed: 03/25/23 03:18	
1-Bromo-2-Nitrobenzene	556503	3.162	509297	3.163	109	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl	431055	9.556	429777	9.559	100	50 - 200	-0.003	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	793495	3.312	633958	3.312	125	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	451679	10.929	450469	10.931	100	50 - 200	-0.002	+/-0.50	
LCS (BLC0107-BS1)		(Solid)		Lab File ID: 23032440.D				Analyzed: 03/25/23 03:35	
1-Bromo-2-Nitrobenzene	1010558	3.159	509297	3.163	198	50 - 200	-0.004	+/-0.50	
Hexabromobiphenyl	805987	9.554	429777	9.559	188	50 - 200	-0.005	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	1522626	3.31	633958	3.312	240	50 - 200	-0.002	+/-0.50	*
Hexabromobiphenyl [2C]	831281	10.928	450469	10.931	185	50 - 200	-0.003	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8081B

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLC0442
Instrument: ECD6
Calibration: FL00041

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
LCS Dup (BLC0107-BSD1)		(Solid)		Lab File ID: 23032441.D				Analyzed: 03/25/23 03:53	
1-Bromo-2-Nitrobenzene	1038771	3.159	509297	3.163	204	50 - 200	-0.004	+/-0.50	*
Hexabromobiphenyl	820290	9.555	429777	9.559	191	50 - 200	-0.004	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	1535061	3.31	633958	3.312	242	50 - 200	-0.002	+/-0.50	*
Hexabromobiphenyl [2C]	857154	10.928	450469	10.931	190	50 - 200	-0.003	+/-0.50	
LDW23-SS1000 (23C0071-01)		(Solid)		Lab File ID: 23032442.D				Analyzed: 03/25/23 04:11	
1-Bromo-2-Nitrobenzene	1066185	3.159	509297	3.163	209	50 - 200	-0.004	+/-0.50	*
Hexabromobiphenyl	772476	9.561	429777	9.559	180	50 - 200	0.002	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	1443182	3.31	633958	3.312	228	50 - 200	-0.002	+/-0.50	*
Hexabromobiphenyl [2C]	828579	10.932	450469	10.931	184	50 - 200	0.001	+/-0.50	
LDW23-SS1037 (23C0071-02)		(Solid)		Lab File ID: 23032443.D				Analyzed: 03/25/23 04:29	
1-Bromo-2-Nitrobenzene	1027367	3.159	509297	3.163	202	50 - 200	-0.004	+/-0.50	*
Hexabromobiphenyl	736386	9.559	429777	9.559	171	50 - 200	0.000	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	1328447	3.309	633958	3.312	210	50 - 200	-0.003	+/-0.50	*
Hexabromobiphenyl [2C]	799022	10.93	450469	10.931	177	50 - 200	-0.001	+/-0.50	
LDW23-SS1036 (23C0071-03)		(Solid)		Lab File ID: 23032444.D				Analyzed: 03/25/23 04:47	
1-Bromo-2-Nitrobenzene	991648	3.158	509297	3.163	195	50 - 200	-0.005	+/-0.50	
Hexabromobiphenyl	750429	9.56	429777	9.559	175	50 - 200	0.001	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	1368060	3.309	633958	3.312	216	50 - 200	-0.003	+/-0.50	*
Hexabromobiphenyl [2C]	806028	10.931	450469	10.931	179	50 - 200	0.000	+/-0.50	
LDW23-SS1044 (23C0071-04)		(Solid)		Lab File ID: 23032445.D				Analyzed: 03/25/23 05:05	
1-Bromo-2-Nitrobenzene	533666	3.161	509297	3.163	105	50 - 200	-0.002	+/-0.50	
Hexabromobiphenyl	399602	9.558	429777	9.559	93	50 - 200	-0.001	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	707424	3.311	633958	3.312	112	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl [2C]	428539	10.931	450469	10.931	95	50 - 200	0.000	+/-0.50	
LDW23-SS1048 (23C0071-05)		(Solid)		Lab File ID: 23032446.D				Analyzed: 03/25/23 05:23	
1-Bromo-2-Nitrobenzene	980249	3.158	509297	3.163	192	50 - 200	-0.005	+/-0.50	
Hexabromobiphenyl	745990	9.561	429777	9.559	174	50 - 200	0.002	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	1362782	3.309	633958	3.312	215	50 - 200	-0.003	+/-0.50	*
Hexabromobiphenyl [2C]	798527	10.932	450469	10.931	177	50 - 200	0.001	+/-0.50	

Analytical Resources, LLC
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8081B

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLC0442	Instrument:	ECD6
		Calibration:	FL00041

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
LDW23-SS1054 (23C0071-06)		(Solid)		Lab File ID: 23032447.D				Analyzed: 03/25/23 05:41	
1-Bromo-2-Nitrobenzene	1037344	3.159	509297	3.163	204	50 - 200	-0.004	+/-0.50	*
Hexabromobiphenyl	764546	9.56	429777	9.559	178	50 - 200	0.001	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	1364797	3.309	633958	3.312	215	50 - 200	-0.003	+/-0.50	*
Hexabromobiphenyl [2C]	831014	10.932	450469	10.931	184	50 - 200	0.001	+/-0.50	
Matrix Spike (BLC0107-MS1)		(Solid)		Lab File ID: 23032448.D				Analyzed: 03/25/23 05:59	
1-Bromo-2-Nitrobenzene	1046201	3.158	509297	3.163	205	50 - 200	-0.005	+/-0.50	*
Hexabromobiphenyl	753123	9.561	429777	9.559	175	50 - 200	0.002	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	1358412	3.309	633958	3.312	214	50 - 200	-0.003	+/-0.50	*
Hexabromobiphenyl [2C]	798216	10.933	450469	10.931	177	50 - 200	0.002	+/-0.50	
Matrix Spike Dup (BLC0107-MSD1)		(Solid)		Lab File ID: 23032449.D				Analyzed: 03/25/23 06:17	
1-Bromo-2-Nitrobenzene	551683	3.16	509297	3.163	108	50 - 200	-0.003	+/-0.50	
Hexabromobiphenyl	386577	9.557	429777	9.559	90	50 - 200	-0.002	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	702537	3.311	633958	3.312	111	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl [2C]	417698	10.93	450469	10.931	93	50 - 200	-0.001	+/-0.50	
Performance Mix (SLC0442-PEM4)		(Water)		Lab File ID: 23032457.D				Analyzed: 03/25/23 08:40	
1-Bromo-2-Nitrobenzene	509106	3.161	509297	3.163	100	50 - 200	-0.002	+/-0.50	
Hexabromobiphenyl	422512	9.556	429777	9.559	98	50 - 200	-0.003	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	693430	3.311	633958	3.312	109	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl [2C]	445549	10.928	450469	10.931	99	50 - 200	-0.003	+/-0.50	

Analytical Resources, LLC
Analytical Chemists and Consultants

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	23C0071
Client:	Anchor QEA, LLC			Project:	AOC5 MR Phase 1
Matrix:	Sediment	Laboratory ID:	23C0071-01	File ID:	23032442.D
Sampled:	03/02/23 09:33	Prepared:	03/06/23 13:27	Analyzed:	03/25/23 04:11
Solids:	46.24	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD6
Batch:	BLC0107	Sequence:	SLC0442		
GC Column(1):	STX-CLP			GC Column(2):	STX-CLPII

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Hexachlorobenzene	1	4.203	4.182	0.021	19496	0.20	N/A
	* 2		4.717833	4.72		ND	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	23C0071
Client:	Anchor QEA, LLC			Project:	AOC5 MR Phase 1
Matrix:	Sediment	Laboratory ID:	23C0071-02	File ID:	23032443.D
Sampled:	03/02/23 09:56	Prepared:	03/06/23 13:27	Analyzed:	03/25/23 04:29
Solids:	50.76	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD6
Batch:	BLC0107	Sequence:	SLC0442		
GC Column(1):	STX-CLP			GC Column(2):	STX-CLPII

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Hexachlorobenzene	1	4.201	4.182	0.019	17558	0.19	N/A
	* 2		4.717833	4.72		ND	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	23C0071
Client:	Anchor QEA, LLC			Project:	AOC5 MR Phase 1
Matrix:	Sediment	Laboratory ID:	23C0071-03	File ID:	23032444.D
Sampled:	03/02/23 10:10	Prepared:	03/06/23 13:27	Analyzed:	03/25/23 04:47
Solids:	47.57	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD6
Batch:	BLC0107	Sequence:	SLC0442		
GC Column(1):	STX-CLP			GC Column(2):	STX-CLPII

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Hexachlorobenzene	1	4.202	4.182	0.02	17303	0.19	N/A
	* 2		4.717833	4.72		ND	

* Column used for quantitation

Analytical Resources, LLC
Analytical Chemists and Consultants

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	23C0071
Client:	Anchor QEA, LLC			Project:	AOC5 MR Phase 1
Matrix:	Sediment	Laboratory ID:	23C0071-04	File ID:	23032445.D
Sampled:	03/02/23 10:22	Prepared:	03/06/23 13:27	Analyzed:	03/25/23 05:05
Solids:	47.78	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD6
Batch:	BLC0107	Sequence:	SLC0442		
GC Column(1):	STX-CLP			GC Column(2):	STX-CLPII

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Hexachlorobenzene	1	4.205	4.182	0.023	11124	0.23	N/A
	* 2		4.717833	4.72		ND	

* Column used for quantitation

Analytical Resources, LLC
Analytical Chemists and Consultants

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	23C0071
Client:	Anchor QEA, LLC			Project:	AOC5 MR Phase 1
Matrix:	Sediment	Laboratory ID:	23C0071-05	File ID:	23032446.D
Sampled:	03/02/23 10:32	Prepared:	03/06/23 13:27	Analyzed:	03/25/23 05:23
Solids:	50.00	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD6
Batch:	BLC0107	Sequence:	SLC0442		
GC Column(1):	STX-CLP			GC Column(2):	STX-CLPII

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Hexachlorobenzene	1	4.202	4.182	0.02	13587	0.15	N/A
	* 2		4.717833	4.72		ND	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	23C0071
Client:	Anchor QEA, LLC			Project:	AOC5 MR Phase 1
Matrix:	Sediment	Laboratory ID:	23C0071-06	File ID:	23032447.D
Sampled:	03/02/23 10:41	Prepared:	03/06/23 13:27	Analyzed:	03/25/23 05:41
Solids:	50.43	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD6
Batch:	BLC0107	Sequence:	SLC0442		
GC Column(1):	STX-CLP			GC Column(2):	STX-CLPII

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Hexachlorobenzene	1	4.202	4.182	0.02	16229	0.18	N/A
	* 2		4.717833	4.72		ND	

* Column used for quantitation

HOLDING TIME SUMMARY

Analysis: EPA 8081B

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
LDW23-SS1000 23C0071-01	03/02/23 09:33	03/02/23 16:34	03/06/23 13:27	4	365	03/25/23 04:11	19	40	
LDW23-SS1037 23C0071-02	03/02/23 09:56	03/02/23 16:34	03/06/23 13:27	4	365	03/25/23 04:29	19	40	
LDW23-SS1036 23C0071-03	03/02/23 10:10	03/02/23 16:34	03/06/23 13:27	4	365	03/25/23 04:47	19	40	
LDW23-SS1044 23C0071-04	03/02/23 10:22	03/02/23 16:34	03/06/23 13:27	4	365	03/25/23 05:05	19	40	
LDW23-SS1048 23C0071-05	03/02/23 10:32	03/02/23 16:34	03/06/23 13:27	4	365	03/25/23 05:23	19	40	
LDW23-SS1054 23C0071-06	03/02/23 10:41	03/02/23 16:34	03/06/23 13:27	4	365	03/25/23 05:41	19	40	
Matrix Spike BLC0107-MS1	03/02/23 10:41	03/02/23 16:34	03/06/23 13:27	4	365	03/25/23 05:59	19	40	
Matrix Spike Dup BLC0107-MSD1	03/02/23 10:41	03/02/23 16:34	03/06/23 13:27	4	365	03/25/23 06:17	19	40	

* Indicates hold time exceedance.

METHOD DETECTION AND REPORTING LIMITS

EPA 8081B

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Matrix: Solid
Instrument: ECD6

Analyte	MDL	RL	Units
Hexachlorobenzene	0.15	0.50	ug/kg
Hexachlorobenzene [2C]	0.15	0.50	ug/kg

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CERTIFICATE OF ANALYSIS

Catalog No: S-279N
Description: Tetrachloro-m-xylene
Lot: 0052481B-1
Solvent: N/A
Hazards: *Refer to SDS for complete safety information*

Signal Word: Warning

Date Certified: Jul 28, 2005
Expiration: Jul 28, 2015
Sample Size: 100 mg
Components: 1
Storage Condition: Ambient (>5 °C)

Certified Reference Material

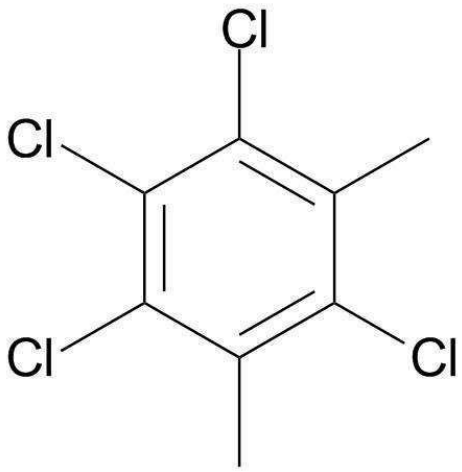
ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER AR-1463

ilac-MRA

Component	CAS #	Purity % (GC/FID)	Prepared Concentration	Certified Analyte Concentration[1]
Tetrachloro-meta-xylene	877-09-8	96.0	N/A	N/A

Identification:

Molecular formula: C8H6Cl4
Molecular weight: 243.94



C000147
tetrachlormetaxylene
Expires 1/15/2020
Prepared By Joshua Rains 1/15/2014

This Certified Reference Material was verified in accordance with ISO/IEC 17025

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

[1] The Uncertainty calculated for this product is ±2.4%. These values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

Metrological traceability is established through in-house validated methods.

Purity, if stated, is equal to 100% minus found impurity components. Impurity components have not been identified.

Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By: Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

AccuStandard is accredited to ISO 17034, ISO/IEC 17025 and certified to ISO 9001:2015

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CERTIFICATE OF PRODUCT DATA

PRODUCT: C-209N
DESCRIPTION: 2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl
LOT #: 990521LB-AC
SOLVENT: N/A

EXPIRATION: Jul 28, 2015

This product is guaranteed accurate to ±0.5% of the Certified Analyte concentration through the Expiration Date on the Label.

Component	CAS #	Purity % (GC/MS)	Prepared Concentration[1]	Certified Analyte Concentration[2]
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	2051-24-3	100	N/A	N/A

C000148
decachlorbiphenyl
Expires 1/15/2020
Prepared By Joshua Rains 1/15/2014

* I1768A

Certified by: R. Cooper

1. All weights are traceable through National Institute of Standards & Technology, Test No. 822/254480
2. Certified Analyte Concentration = Purity x Prepared Concentration. The Uncertainty calculated for this product is ±4% which is the Combined Uncertainty uc(y). It represents an estimated standard deviation equal to the positive square root of the total variance of the uncertainty of components. The Expanded Uncertainty is U which is Uc(y) *K where K is the coverage factor at the 95% confidence level (K=2).
3. A product with a suffix (-1A, -2B, etc.) on its lot# has had its expiration date extended and is identical to the same lot# without the suffix.

Please note: AccuStandard follows the U.S. conventions in reporting numerical values, on both certificates and labels.

A comma (,) is used to separate units of one-thousand or greater.
A period (.) is used as a decimal place marker.

This product was manufactured in accordance to quality system requirements of ISO 9001:2000 and ISO 17025

* Recertified 2 4-6-09 JS

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Analytical Standard Record

Standard ID: C000148 **Printed: 4/23/2015 11:54:44AM**

Description:	decachlorbiphenyl	Expires:	15-Jan-2020
Standard Type:	Other	Prepared:	15-Jan-2014
Solvent:	na/a	Prepared By:	Joshua Rains
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	27-Feb-2015 13:03 by JGR
Vendor:	Accustandard	Lot #:	990521lb-ac
Vendor Catalog #:			

Comments

see i1768a
SOM calibrations added 06/12/14 sdrd

Analyte	CAS Number	Concentration	Units
Decachlorobiphenyl [2C]	2051-24-3	1000000	ug/mL
Decachlorobiphenyl	2051-24-3	1000000	ug/mL
DCB 1660 [2C]	2051-24-3	1000000	ug/mL
DCB 1660	2051-24-3	1000000	ug/mL
DCB [2C]	2051-24-3	1000000	ug/mL
DCB (A) [2C]	2051-24-3	1000000	ug/mL
DCB (A)	2051-24-3	1000000	ug/mL
DCB	2051-24-3	1000000	ug/mL

Reviewed By Date

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CERTIFICATE OF ANALYSIS

Catalog No: P-066S
Description: Mirex
Lot: 219051741-01
Solvent: Methanol
Hazards: *Refer to SDS for complete safety information*

Signal Word: Danger

Date Certified: Jun 5, 2020
Expiration: Jun 5, 2024
Sample Size: 1 mL
Components: 1
Storage Condition: Ambient (>5 °C)

Certified Reference Material

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER AR-1463

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY AT-1339

ilac-MRA

Component	CAS #	Purity % (GC/MS)	Prepared Concentration² (µg/mL)	Certified Analyte Concentration¹ (µg/mL)
Mirex	2385-85-5	98.2	100.2	98.4

I007970
Mirex 2d source
Solvent / Lot: MeOH
Prep: 9/7/2020 by JR
Exp: 6/5/2024
Location:

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

² All weights are traceable through NIST, Test No. 684/289871-17

¹ Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is ±2.4%. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

Certified By: Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

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CERTIFICATE OF ANALYSIS

Catalog No: P-026S
Description: o,p'-DDE
Lot: 218021093-01
Solvent: Methanol
Hazards: *Refer to SDS for complete safety information*

Signal Word: Danger

Date Certified: Feb 10, 2020
Expiration: Feb 10, 2023
Sample Size: 1 mL
Components: 1
Storage Condition: Ambient (>5 °C)

Certified Reference Material

ANAB ACCREDITED REFERENCE MATERIAL PRODUCER AR-1463
ANAB ACCREDITED TESTING LABORATORY AT-1339
ilac-MRA

Component	CAS #	Purity % (GC/MS)	Prepared Concentration² (µg/mL)	Certified Analyte Concentration¹ (µg/mL)
o,p'-DDE	3424-82-6	99.9	100.4	100.3

I7971

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

² All weights are traceable through NIST, Test No. 822-275872-11

¹ Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is ±2.4%. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

Certified By: Larry Decker, Organic QC Manager

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CERTIFICATE OF ANALYSIS

Catalog No: P-184S
Description: trans-Nonachlor
Lot: 218011470
Solvent: Methanol
Hazards: *Refer to SDS for complete safety information*

Signal Word: Danger

Date Certified: Jan 30, 2018
Expiration: Jan 30, 2028
Sample Size: 1 mL
Components: 1
Storage Condition: Ambient (>5 °C)

Certified Reference Material

ANAB ACCREDITED REFERENCE MATERIAL PRODUCER AR-1463
ANAB ACCREDITED TESTING LABORATORY AT-1339
ilac-MRA

Component	CAS #	Purity % (GC/MS)	Prepared Concentration[2] (µg/mL)	Certified Analyte Concentration[1] (µg/mL)
trans-Nonachlor	39765-80-5	99.0	100.2	99.2

I 7974

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

[2] All weights are traceable through NIST, Test No. 822-275872-11

[1] Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is ±2.4%. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

Certified By: Larry Decker, Organic QC Manager

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CERTIFICATE OF ANALYSIS

Catalog No: P-024S
Description: o,p'-DDD
Lot: 220051307
Solvent: Methanol
Hazards: *Refer to SDS for complete safety information*

Signal Word: Danger

Date Certified: May 27, 2020
Expiration: Jun 27, 2022
Sample Size: 1 mL
Components: 1
Storage Condition: Ambient (>5 °C)

Certified Reference Material

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER AR-1463

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY AT-1339

ilac-MRA

Component	CAS #	Purity % (GC/MS)	Prepared Concentration² (µg/mL)	Certified Analyte Concentration¹ (µg/mL)
o,p'-DDD	53-19-0	100.0	100.2	100.2

I010773
o,p-DDD
Solvent / Lot: methanol
Prep: 11/20/2020 by VS
Exp: 6/27/2022
Location:

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

² All weights are traceable through NIST, Test No. 684/289871-17

¹ Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is ±2.4%. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

Certified By: Larry Decker, Organic QC Manager

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1. **Quality Standards:**

   ISO 17034 – General Requirements for the Competence of Reference Material Producers ANAB Certificate Number AR-1463

   ISO/IEC 17025 – General Requirements for the Competence of Testing And Calibration Laboratories ANAB Certificate Number AT-1339

   ISO 9001:2015 – Quality Management System – Requirements Eagle Registrations Certificate Number 3774

2 **Intended Use:** The product covered by this certificate is designed for calibration or for use in quality control procedures for the specified chemical compounds listed on the reverse side. This product can be used for quantification and/or identification. This product can also be used as a reference material to validate analytical procedures, subject to the conditions under Section 7

3 **Manufacturing:** All balances are calibrated daily using an in-house procedure with weights that are compared annually to master weights and traceable to NIST. The balances are also calibrated annually by an ISO/IEC 17025 accredited calibration laboratory. Please refer to the NIST test number listed on the front of this certificate. Class A glassware is used in the manufacture and quality control of all standards. Good Laboratory Practices have been used throughout the preparation of this .

4 **Homogeneity:** This product is sufficiently homogeneous and any sample size would be within the uncertainty budget.

5 **Stability:** The manufacturer guarantees the stability of this solution through the expiration date stated on the label, when handled and stored according to the conditions stated on the label

6 **Uncertainty:** The uncertainty values as stated on the face of this certificate have been determined using the EURACHEM/CITAC Guide. We report a combined expanded uncertainty equal to the positive square root of the total variance of the uncertainty of the components using the following formula: $u_a = \sqrt{(u(\mathrm{V}))^2 + (u(\mathrm{m}))^2 + (u(\mathrm{IV}))^2 + (u(\mathrm{RO}))^2}$ This formula represents uncertainty components from the mass, volume, short-term stability, long-term stability and homogeneity factors associated with the production of this product. The expanded uncertainty, assumes a normal distribution and a coverage factor of k=2 is chosen using approximately a 95% confidence level.

7 **Legal Notice and Limit of Liability:** This product is for routine laboratory analysis and research purposes only. The company's liability will be limited to replacement of product or refund of purchase price. Notice of claims must be made within thirty (30) days from date of delivery.

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CERTIFICATE OF ANALYSIS

Catalog No: P-331S
Description: Oxychlordane Isomer
Lot: 218101131
Solvent: Methanol
Hazards: *Refer to SDS for complete safety information*

Signal Word: Danger

Date Certified: Oct 8, 2018
Expiration: Nov 8, 2020
Sample Size: 1 mL
Components: 1
Storage Condition: Ambient (>5 °C)

Certified Reference Material

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER AR-1463

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY AT-1339

ilac-MRA

Component	CAS #	Purity % (GC/MS)	Prepared Concentration² (µg/mL)	Certified Analyte Concentration¹ (µg/mL)
Oxychlordane Isomer	27304-13-8	97.7	102.4*	100.0

I010795
Oxychlordane isomer
Solvent / Lot: methanol
Prep: 11/20/2020 by VS
Exp: 6/20/2022
Location:

* Weight compensated to 100% purity.

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

² All weights are traceable through NIST, Test No. 684/289871-17

¹ Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is ±2.4%. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

Certified By: Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

AccuStandard is accredited to ISO 17034, ISO/IEC 17025 and certified to ISO 9001:2015

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1. **Quality Standards:**

   ISO 17034 – General Requirements for the Competence of Reference Material Producers ANAB Certificate Number AR-1463

   ISO/IEC 17025 – General Requirements for the Competence of Testing And Calibration Laboratories ANAB Certificate Number AT-1339

   ISO 9001:2015 – Quality Management System – Requirements Eagle Registrations Certificate Number 3774

2 **Intended Use:** The product covered by this certificate is designed for calibration or for use in quality control procedures for the specified chemical compounds listed on the reverse side. This product can be used for quantification and/or identification. This product can also be used as a reference material to validate analytical procedures, subject to the conditions under Section 7

3 **Manufacturing:** All balances are calibrated daily using an in-house procedure with weights that are compared annually to master weights and traceable to NIST. The balances are also calibrated annually by an ISO/IEC 17025 accredited calibration laboratory. Please refer to the NIST test number listed on the front of this certificate. Class A glassware is used in the manufacture and quality control of all standards and calibrated using an in-house procedure. Good Laboratory Practices have been used throughout the preparation of this CRM.

4 **Homogeneity:** This product is sufficiently homogeneous and any sample size would be within the uncertainty budget.

5 **Stability:** The manufacturer guarantees the stability of this solution through the expiration date stated on the label, when handled and stored according to the conditions stated on the label

6 **Uncertainty:** The uncertainty values as stated on the face of this certificate have been determined using the EURACHEM/CITAC Guide. We report a combined expanded uncertainty equal to the positive square root of the total variance of the uncertainty of the components using the following formula: $u_a = \sqrt{(u(\mathrm{V}))^2 + (u(\mathrm{m}))^2 + (u(\mathrm{IV}))^2 + (u(\mathrm{RO}))^2}$ This formula represents uncertainty components from the mass, volume, short-term stability, long-term stability and homogeneity factors associated with the production of this product. The expanded uncertainty, assumes a normal distribution and a coverage factor of k=2 is chosen using approximately a 95% confidence level.

7 **Legal Notice and Limit of Liability:** This product is for routine laboratory analysis and research purposes only. The company's liability will be limited to replacement of product or refund of purchase price. Notice of claims must be made within thirty (30) days from date of delivery.

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CERTIFICATE OF ANALYSIS

Catalog No: P-297S
Description: cis-Nonachlor
Lot: 217121240
Solvent: Methanol
Hazards: *Refer to SDS for complete safety information*

Signal Word: Danger

Date Certified: Dec 13, 2017
Expiration: Dec 13, 2020
Sample Size: 1 mL
Components: 1
Storage Condition: Ambient (>5 °C)

Certified Reference Material

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER AR-1463

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY AT-1339

ilac-MRA

Component	CAS #	Purity % (GC/MS)	Prepared Concentration[1] (µg/mL)	Certified Analyte Concentration[2] (µg/mL)
cis-Nonachlor	5103-73-1	98.6	100.4	99.0

I010796
cis-Nonochlor-Accustd-100ug/ml
Solvent / Lot: methanol
Prep: 11/20/2020 by VS
Exp: 11/27/2022
Location:

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

[1] All weights are traceable through NIST, Test No. 822-275872-11

[2] Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is ±2.4%. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

Certified By: Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

AccuStandard is accredited to ISO 17034, ISO/IEC 17025 and certified to ISO 9001:2015

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Rev. 5/18

1. **Quality Standards:**

   ISO 17034 – General Requirements for the Competence of Reference Material Producers ANAB Certificate Number AR-1463

   ISO/IEC 17025 – General Requirements for the Competence of Testing And Calibration Laboratories ANAB Certificate Number AT-1339

   ISO 9001:2015 – Quality Management System – Requirements Eagle Registrations Certificate Number 3774

2. **Intended Use:** The product covered by this certificate is designed for calibration or for use in quality control procedures for the specified chemical compounds listed on the reverse side. This product can be used for quantification and/or identification. This product can also be used as a reference material to validate analytical procedures, subject to the conditions under Section 11.

3. **Manufacturing:** All balances are calibrated daily using an in-house procedure with weights that are compared annually to master weights and traceable to NIST. The balances are also calibrated annually by an ISO/IEC 17025 accredited calibration laboratory. Please refer to the NIST test number listed on the front of this certificate. Class A glassware is used in the manufacture and quality control of all standards and calibrated using an in-house procedure. Good Laboratory Practices have been used throughout the preparation of this CRM.

4. **Homogeneity:** This product is sufficiently homogeneous and any sample size would be within the uncertainty budget.

5. **Stability:** The manufacturer guarantees the stability of this solution through the expiration date stated on the label, when handled and stored according to the conditions stated on the label

6. **Uncertainty:** The uncertainty values as stated on the face of this certificate have been determined using the EURACHEM/CITAC Guide. We report a combined expanded uncertainty equal to the positive square root of the total variance of the uncertainty of the components using the following formula: $u_a = \sqrt{(u(\mathrm{V}))^2 + (u(\mathrm{m}))^2 + (u(\mathrm{IV}))^2 + (u(\mathrm{RO}))^2}$ This formula represents uncertainty components from the mass, volume, short-term stability, long-term stability and homogeneity factors associated with the production of this product. The expanded uncertainty, assumes a normal distribution and a coverage factor of k=2 is chosen using approximately a 95% confidence level.

7. **Legal Notice and Limit of Liability:** This product is for routine laboratory analysis and research purposes only. The company's liability will be limited to replacement of product or refund of purchase price. Notice of claims must be made within thirty (30) days from date of delivery.

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CERTIFICATE OF ANALYSIS

Catalog No: APP-9-112-D-20X
Description: Hexachlorobenzene in Dichloromethane
Lot: 219051389
Solvent: Dichloromethane
Hazards: *Refer to SDS for complete safety information*

Signal Word: Warning

Date Certified: May 13, 2019
Expiration: May 13, 2029
Sample Size: 1 mL
Components: 1
Storage Condition: Ambient (>5 °C)

Certified Reference Material

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER AR-1463
ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY AT-1339
ilac-MRA

Component	CAS #	Purity % (GC/MS)	Prepared Concentration² (µg/mL)	Certified Analyte Concentration¹ (µg/mL)
Hexachlorobenzene	118-74-1	99.0	2002	1982

J006504
Hexachlorobenzene
Solvent / Lot: Dichloromethane
Prep: 6/21/2021 by YZ
Exp: 5/13/2029
Location:

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

² All weights are traceable through NIST, Test No. 684/289871-17

¹ Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is ±2.4%. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

Certified By: Larry Decker, Organic QC Manager

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1. **Quality Standards:**

   ISO 17034 – General Requirements for the Competence of Reference Material Producers ANAB Certificate Number AR-1463

   ISO/IEC 17025 – General Requirements for the Competence of Testing And Calibration Laboratories ANAB Certificate Number AT-1339

   ISO 9001:2015 – Quality Management System – Requirements Eagle Registrations Certificate Number 3774

2 **Intended Use:** The product covered by this certificate is designed for calibration or for use in quality control procedures for the specified chemical compounds listed on the reverse side. This product can be used for quantification and/or identification. This product can also be used as a reference material to validate analytical procedures, subject to the conditions under Section 7

3 **Manufacturing:** All balances are calibrated daily using an in-house procedure with weights that are compared annually to master weights and traceable to NIST. The balances are also calibrated annually by an ISO/IEC 17025 accredited calibration laboratory. Please refer to the NIST test number listed on the front of this certificate. Class A glassware is used in the manufacture and quality control of all standards and calibrated using an in-house procedure. Good Laboratory Practices have been used throughout the preparation of this .

4 **Homogeneity:** This product is sufficiently homogeneous and any sample size would be within the uncertainty budget.

5 **Stability:** The manufacturer guarantees the stability of this solution through the expiration date stated on the label, when handled and stored according to the conditions stated on the label

6 **Uncertainty:** The uncertainty values as stated on the face of this certificate have been determined using the EURACHEM/CITAC Guide. We report a combined expanded uncertainty equal to the positive square root of the total variance of the uncertainty of the components using the following formula: $u_a = \sqrt{(u(\mathrm{V}))^2 + (u(\mathrm{m}))^2 + (u(\mathrm{IV}))^2 + (u(\mathrm{RO}))^2}$ This formula represents uncertainty components from the mass, volume, short-term stability, long-term stability and homogeneity factors associated with the production of this product. The expanded uncertainty, assumes a normal distribution and a coverage factor of k=2 is chosen using approximately a 95% confidence level.

7 **Legal Notice and Limit of Liability:** This product is for routine laboratory analysis and research purposes only. The company's liability will be limited to replacement of product or refund of purchase price. Notice of claims must be made within thirty (30) days from date of delivery.

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CERTIFICATE OF ANALYSIS

Catalog No: P-028S
Description: o,p'-DDT
Lot: 221071322
Solvent: Methanol
Hazards: *Refer to SDS for complete safety information*

Signal Word: Danger

Date Certified: Jul 21, 2021
Expiration: Aug 21, 2023
Sample Size: 1 mL
Components: 1
Storage Condition: Ambient (>5 °C)

Certified Reference Material

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER AR-1463

ilac-MRA

Component	CAS #	Purity % (GC/MS)	Prepared Concentration² (µg/mL)	Certified Analyte Concentration¹ (µg/mL)
o,p'-DDT	789-02-6	99.9	100.1	100.0

This Certified Reference Material was verified in accordance with ISO/IEC 17025

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

² All weights are traceable through NIST, Test No. 684/289871-17

¹ Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is ±2.4%. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By: Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

AccuStandard is accredited to ISO 17034, ISO/IEC 17025 and certified to ISO 9001:2015

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1. **Quality Standards:**

   ISO 17034:2016 – General Requirements for the Competence of Reference Material Producers

   ISO/IEC 17025:2017 – General Requirements for the Competence of Testing And Calibration Laboratories

   ISO 9001:2015 – Quality Management System – Requirements Eagle Registrations

2. **Intended Use:** The product covered by this certificate is designed for calibration or for use in quality control procedures for the specified chemical compounds listed on the reverse side. This product can be used for quantification and/or identification. This product can also be used as a reference material to validate analytical procedures, subject to the conditions under Section 7.

3. **Manufacturing:** All balances are calibrated daily using an in-house procedure with weights that are compared annually to master weights and traceable to NIST. The balances are also calibrated annually by an ISO/IEC 17025 accredited calibration laboratory. Please refer to the NIST test number listed on the front of this certificate. Class A glassware is used in the manufacture and quality control of all standards. Good Laboratory Practices have been used throughout the preparation of this Standard.

4. **Homogeneity:** This product is sufficiently homogeneous and any sample size would be within the uncertainty budget.

5. **Stability:** The manufacturer guarantees the stability of this solution through the expiration date stated on the label, when handled and stored according to the conditions stated on the label

6. **Uncertainty:** The uncertainty values as stated on the face of this certificate have been determined using the EURACHEM/CITAC Guide. We report a combined expanded uncertainty equal to the positive square root of the total variance of the uncertainty of the components using the following formula: $u_a = \sqrt{(u(\mathrm{V}))^2 + (u(\mathrm{m}))^2 + (u(\mathrm{IV}))^2 + (u(\mathrm{RO}))^2}$ This formula represents uncertainty components from the mass, volume, short-term stability, long-term stability and homogeneity factors associated with the production of this product. The expanded uncertainty, assumes a normal distribution and a coverage factor of k=2 is chosen using approximately a 95% confidence level.

7. **Legal Notice and Limit of Liability:** This product is for routine laboratory analysis and research purposes only. The company's liability will be limited to replacement of product or refund of purchase price. Notice of claims must be made within thirty (30) days from date of delivery.

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CERTIFICATE OF ANALYSIS

Catalog No: P-024S
Description: o,p'-DDD
Lot: 220051307-01
Solvent: Methanol
Hazards: *Refer to SDS for complete safety information*

Signal Word: Danger

Date Certified: Jul 6, 2021
Expiration: Aug 6, 2023
Sample Size: 1 mL
Components: 1
Storage Condition: Ambient (>5 °C)

Certified Reference Material

ANAB ACCREDITED REFERENCE MATERIAL PRODUCER AR-1463

ilac-MRA

Component	CAS #	Purity % (GC/MS)	Prepared Concentration² (µg/mL)	Certified Analyte Concentration¹ (µg/mL)
o,p'-DDD	53-19-0	100.0	100.2	100.2

K 0448

This Certified Reference Material was verified in accordance with ISO/IEC 17025

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

² All weights are traceable through NIST, Test No. 684/289871-17

¹ Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is ±2.4%. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By: Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

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CERTIFICATE OF ANALYSIS

Catalog No: P-331S
Description: Oxychlordane Isomer
Lot: 221051706
Solvent: Methanol
Hazards: *Refer to SDS for complete safety information*

Signal Word: Danger

Date Certified: May 28, 2021
Expiration: Jun 28, 2023
Sample Size: 1 mL
Components: 1
Storage Condition: Ambient (>5 °C)

Certified Reference Material

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER AR-1463

ilac-MRA

Component	CAS #	Purity % (GC/MS)	Prepared Concentration² (µg/mL)	Certified Analyte Concentration¹ (µg/mL)
Oxychlordane Isomer	27304-13-8	99.2	100.1	99.3

K000449
Oxychlordane isomer
Solvent / Lot: methanol
Prep: 1/13/2022 by YZ
Exp: 6/28/2023
Location:

This Certified Reference Material was verified in accordance with ISO/IEC 17025

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

² All weights are traceable through NIST, Test No. 684/289871-17

¹ Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is ±2.4%. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By: Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

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1. **Quality Standards:**

   ISO 17034:2016 – General Requirements for the Competence of Reference Material Producers

   ISO/IEC 17025:2017 – General Requirements for the Competence of Testing And Calibration Laboratories

   ISO 9001:2015 – Quality Management System – Requirements Eagle Registrations

2. **Intended Use:** The product covered by this certificate is designed for calibration or for use in quality control procedures for the specified chemical compounds listed on the reverse side. This product can be used for quantification and/or identification. This product can also be used as a reference material to validate analytical procedures, subject to the conditions under Section 7.

3. **Manufacturing:** All balances are calibrated daily using an in-house procedure with weights that are compared annually to master weights and traceable to NIST. The balances are also calibrated annually by an ISO/IEC 17025 accredited calibration laboratory. Please refer to the NIST test number listed on the front of this certificate. Class A glassware is used in the manufacture and quality control of all standards. Good Laboratory Practices have been used throughout the preparation of this Standard.

4. **Homogeneity:** This product is sufficiently homogeneous and any sample size would be within the uncertainty budget.

5. **Stability:** The manufacturer guarantees the stability of this solution through the expiration date stated on the label, when handled and stored according to the conditions stated on the label

6. **Uncertainty:** The uncertainty values as stated on the face of this certificate have been determined using the EURACHEM/CITAC Guide. We report a combined expanded uncertainty equal to the positive square root of the total variance of the uncertainty of the components using the following formula: $u_a = \sqrt{(u(\mathrm{V}))^2 + (u(\mathrm{m}))^2 + (u(\mathrm{IV}))^2 + (u(\mathrm{RO}))^2}$ This formula represents uncertainty components from the mass, volume, short-term stability, long-term stability and homogeneity factors associated with the production of this product. The expanded uncertainty, assumes a normal distribution and a coverage factor of k=2 is chosen using approximately a 95% confidence level.

7. **Legal Notice and Limit of Liability:** This product is for routine laboratory analysis and research purposes only. The company's liability will be limited to replacement of product or refund of purchase price. Notice of claims must be made within thirty (30) days from date of delivery.

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CERTIFICATE OF ANALYSIS

Catalog No: P-297S
Description: cis-Nonachlor
Lot: 221041461
Solvent: Methanol
Hazards: *Refer to SDS for complete safety information*

Signal Word: Danger

Date Certified: Apr 22, 2021
Expiration: Apr 22, 2024
Sample Size: 1 mL
Components: 1
Storage Condition: Ambient (>5 °C)

Certified Reference Material

ANAB ACCREDITED REFERENCE MATERIAL PRODUCER AR-1463
ANAB ACCREDITED TESTING LABORATORY AT-1339
ilac-MRA

Component	CAS #	Purity % (GC/MS)	Prepared Concentration[2] (µg/mL)	Certified Analyte Concentration[1] (µg/mL)
cis-Nonachlor	5103-73-1	98.6	101.1	99.7

K 000450

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

[2] All weights are traceable through NIST, Test No. 684/289871-17

[1] Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is ±2.4%. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By:
Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

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CERTIFICATE OF ANALYSIS

Catalog No: P-184S
Description: trans-Nonachlor
Lot: 220091107
Solvent: Methanol
Hazards: *Refer to SDS for complete safety information*

Signal Word: Danger

Date Certified: Sep 11, 2020
Expiration: Sep 11, 2030
Sample Size: 1 mL
Components: 1
Storage Condition: Ambient (>5 °C)

Certified Reference Material

ANAB AR-1463 ANAB AT-1339 ilac-MRA

Component	CAS #	Purity % (GC/MS)	Prepared Concentration[2] (µg/mL)	Certified Analyte Concentration[1] (µg/mL)
trans-Nonachlor	39765-80-5	99.0	100.2	99.2

K-0045 1

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

[2] All weights are traceable through NIST, Test No. 684/289871-17

[1] Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is ±2.4%. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By: Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

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CERTIFICATE OF ANALYSIS

Catalog No: P-066S
Description: Mirex
Lot: 219051741-01
Solvent: Methanol
Hazards: *Refer to SDS for complete safety information*

Signal Word: Danger

Date Certified: Jun 5, 2020
Expiration: Jun 5, 2024
Sample Size: 1 mL
Components: 1
Storage Condition: Ambient (>5 °C)

Certified Reference Material

ANAB ACCREDITED AR-1463 ANAB ACCREDITED AT-1339 ilac-MRA

Component	CAS #	Purity % (GC/MS)	Prepared Concentration² (µg/mL)	Certified Analyte Concentration¹ (µg/mL)
Mirex	2385-85-5	98.2	100.2	98.4

K 000452

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

² All weights are traceable through NIST, Test No. 684/289871-17

¹ Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is ±2.4%. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By: Larry Decker, Organic QC Manager

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K 000 452

CERTIFICATE OF ANALYSIS

Catalog No: P-066S
Description: Mirex
Lot: 221121451
Solvent: Methanol
Hazards: *Refer to SDS for complete safety information*

Signal Word: Danger

Date Certified: Dec 27, 2021
Expiration: Dec 27, 2025
Sample Size: 1 mL
Components: 1
Storage Condition: Ambient (>5 °C)

Certified Reference Material

ANAB ACCREDITED REFERENCE MATERIAL PRODUCER AR-1463

ilac-MRA

Component	CAS #	Purity % (GC/MS)	Prepared Concentration² (µg/mL)	Certified Analyte Concentration¹ (µg/mL)
Mirex	2385-85-5	98.2	100.0	98.2

This Certified Reference Material was verified in accordance with ISO/IEC 17025

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

² All weights are traceable through NIST, Test No. 684/289871-17

¹ Certified Analyte Concentration = Purity x Prepared Concentration.

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Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By: Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

AccuStandard is accredited to ISO 17034, ISO/IEC 17025 and certified to ISO 9001:2015

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CERTIFICATE OF ANALYSIS

Catalog No: M-8081-DS
Description: 4,4'-DDT & Endrin
Lot: 221031488-04
Solvent: Hexane
Hazards: *Refer to SDS for complete safety information*

Signal Word: Danger

Date Certified: Apr 8, 2022
Expiration: May 8, 2023
Sample Size: 1 mL
Components: 2
Storage Condition: Ambient (>5 °C)

Certified Reference Material

ANAB ACCREDITED REFERENCE MATERIAL PRODUCER AR-1463

ilac-MRA

Component	CAS #	Purity % (GC/MS)	Prepared Concentration² (µg/mL)	Certified Analyte Concentration¹ (µg/mL)
4,4'-DDT	50-29-3	100.0	200.9	200.9
Endrin	72-20-8	99.8	200.0	199.6

K7002

This Certified Reference Material was verified in accordance with ISO/IEC 17025

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

² All weights are traceable through NIST, Test No. 684/289871-17

¹ Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is ±2.4%. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By: Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 32292 **Lot No.:** A0185477

Description : Organochlorine Pesticide Mix AB # 2

Organochlorine Pesticide Mix AB # 2 8-80 µg/mL, Hexane/Toluene(1:1), 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

C E R T I F I E D V A L U E S

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	alpha-BHC	8.1 µg/mL	+/- 0.0660 µg/mL	Gravimetric
	CAS # 319-84-6 (Lot 12307600)		+/- 0.3703 µg/mL	Unstressed
	Purity 99%		+/- 0.5325 µg/mL	Stressed
2	gamma-BHC (Lindane)	8.0 µg/mL	+/- 0.0654 µg/mL	Gravimetric
	CAS # 58-89-9 (Lot 13087200)		+/- 0.3672 µg/mL	Unstressed
	Purity 99%		+/- 0.5281 µg/mL	Stressed
3	beta-BHC	8.1 µg/mL	+/- 0.0660 µg/mL	Gravimetric
	CAS # 319-85-7 (Lot 0588007-4)		+/- 0.3703 µg/mL	Unstressed
	Purity 99%		+/- 0.5325 µg/mL	Stressed
4	delta-BHC	8.1 µg/mL	+/- 0.0660 µg/mL	Gravimetric
	CAS # 319-86-8 (Lot 13112400)		+/- 0.3703 µg/mL	Unstressed
	Purity 99%		+/- 0.5325 µg/mL	Stressed
5	Heptachlor	8.0 µg/mL	+/- 0.0654 µg/mL	Gravimetric
	CAS # 76-44-8 (Lot 803759)		+/- 0.3672 µg/mL	Unstressed
	Purity 99%		+/- 0.5281 µg/mL	Stressed
6	Aldrin	8.1 µg/mL	+/- 0.0660 µg/mL	Gravimetric
	CAS # 309-00-2 (Lot 12983100)		+/- 0.3702 µg/mL	Unstressed
	Purity 96%		+/- 0.5323 µg/mL	Stressed
7	Heptachlor epoxide (isomer B)	8.1 µg/mL	+/- 0.0660 µg/mL	Gravimetric
	CAS # 1024-57-3 (Lot 13168200)		+/- 0.3703 µg/mL	Unstressed
	Purity 99%		+/- 0.5325 µg/mL	Stressed

8	trans-Chlordane		8.0	µg/mL	+/-	0.0657	µg/mL	Gravimetric
	CAS # 5103-74-2	(Lot 32943)			+/-	0.3689	µg/mL	Unstressed
	Purity 98%				+/-	0.5305	µg/mL	Stressed
9	cis-Chlordane		8.0	µg/mL	+/-	0.0657	µg/mL	Gravimetric
	CAS # 5103-71-9	(Lot 31766)			+/-	0.3689	µg/mL	Unstressed
	Purity 98%				+/-	0.5305	µg/mL	Stressed
10	Endosulfan I		8.0	µg/mL	+/-	0.0654	µg/mL	Gravimetric
	CAS # 959-98-8	(Lot BCCF4060)			+/-	0.3672	µg/mL	Unstressed
	Purity 99%				+/-	0.5281	µg/mL	Stressed
11	4,4'-DDE		16.1	µg/mL	+/-	0.1314	µg/mL	Gravimetric
	CAS # 72-55-9	(Lot GHYQG)			+/-	0.7375	µg/mL	Unstressed
	Purity 99%				+/-	1.0606	µg/mL	Stressed
12	Dieldrin		16.1	µg/mL	+/-	0.1320	µg/mL	Gravimetric
	CAS # 60-57-1	(Lot 11129900)			+/-	0.7408	µg/mL	Unstressed
	Purity 98%				+/-	1.0653	µg/mL	Stressed
13	Endrin		16.1	µg/mL	+/-	0.1320	µg/mL	Gravimetric
	CAS # 72-20-8	(Lot 13157400)			+/-	0.7406	µg/mL	Unstressed
	Purity 99%				+/-	1.0650	µg/mL	Stressed
14	4,4'-DDD		16.1	µg/mL	+/-	0.1320	µg/mL	Gravimetric
	CAS # 72-54-8	(Lot HAN02)			+/-	0.7406	µg/mL	Unstressed
	Purity 99%				+/-	1.0650	µg/mL	Stressed
15	Endosulfan II		16.0	µg/mL	+/-	0.1309	µg/mL	Gravimetric
	CAS # 33213-65-9	(Lot 12448900)			+/-	0.7345	µg/mL	Unstressed
	Purity 99%				+/-	1.0562	µg/mL	Stressed
16	4,4'-DDT		16.1	µg/mL	+/-	0.1315	µg/mL	Gravimetric
	CAS # 50-29-3	(Lot 220428JLM)			+/-	0.7378	µg/mL	Unstressed
	Purity 98%				+/-	1.0610	µg/mL	Stressed
17	Endrin aldehyde		16.1	µg/mL	+/-	0.1314	µg/mL	Gravimetric
	CAS # 7421-93-4	(Lot 30720)			+/-	0.7375	µg/mL	Unstressed
	Purity 99%				+/-	1.0606	µg/mL	Stressed
18	Endosulfan sulfate		16.1	µg/mL	+/-	0.1320	µg/mL	Gravimetric
	CAS # 1031-07-8	(Lot BCCB0424)			+/-	0.7406	µg/mL	Unstressed
	Purity 99%				+/-	1.0650	µg/mL	Stressed
19	Methoxychlor		80.2	µg/mL	+/-	0.5781	µg/mL	Gravimetric
	CAS # 72-43-5	(Lot 13027000)			+/-	3.6697	µg/mL	Unstressed
	Purity 98%				+/-	5.2871	µg/mL	Stressed
20	Endrin ketone		16.1	µg/mL	+/-	0.1314	µg/mL	Gravimetric
	CAS # 53494-70-5	(Lot 13026800)			+/-	0.7375	µg/mL	Unstressed
	Purity 99%				+/-	1.0606	µg/mL	Stressed

Solvent: Hexane/Toluene (50:50)
CAS # 110-54-3/108-88-3
Purity 99%

Column:
30m x .25mm x .2um
Rtx-CLP II (cat.# 11323)

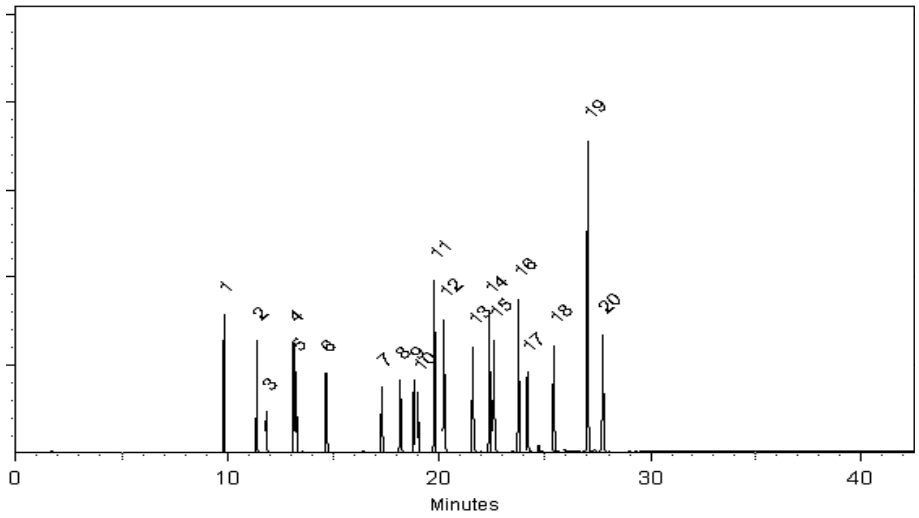
Carrier Gas:
helium-constant pressure 20 psi.

Temp. Program:
150°C to 300°C
@ 4°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
300°C

Det. Type:
ECD



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Morgan Craighead - Mix Technician

Date Mixed: 19-May-2022 **Balance:** B442140311

Fang-Yun Lo - QC Analyst

Date Passed: 26-May-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

125 Market Street
New Haven, CT 06513
USA

AccuStandard® Inc.

Tel (203)786-5290
Fax (203)786-5287
www.AccuStandard.com

CERTIFICATE OF ANALYSIS

Catalog No: M-502-36-10X
Description: Hexachlorobutadiene
Lot: 222031188
Solvent: Methanol
Hazards: *Refer to SDS for complete safety information*

Signal Word: Danger

Date Certified: Mar 11, 2022
Expiration: Apr 11, 2024
Sample Size: 1 mL
Components: 1
Storage Condition: Ambient (>5 °C)

Certified Reference Material

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER AR-1463

ilac-MRA

Component	CAS #	Purity % (GC/MS)	Prepared Concentration² (µg/mL)	Certified Analyte Concentration¹ (µg/mL)
Hexachlorobutadiene	87-68-3	98.0	2002	1962

This Certified Reference Material was verified in accordance with ISO/IEC 17025

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

² All weights are traceable through NIST, Test No. 684/289871-17

¹ Certified Analyte Concentration = Purity x Prepared Concentration.

The Uncertainty associated with the certified concentration reported on this certificate is ±2.4%. This value is the combined expanded uncertainty and represents an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By: Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

AccuStandard is accredited to ISO 17034, ISO/IEC 17025 and certified to ISO 9001:2015

QR-ORG/INO-001
Rev. 5/18

1. **Quality Standards:**

   ISO 17034:2016 – General Requirements for the Competence of Reference Material Producers

   ISO/IEC 17025:2017 – General Requirements for the Competence of Testing And Calibration Laboratories

   ISO 9001:2015 – Quality Management System – Requirements Eagle Registrations

2. **Intended Use:** The product covered by this certificate is designed for calibration or for use in quality control procedures for the specified chemical compounds listed on the reverse side. This product can be used for quantification and/or identification. This product can also be used as a reference material to validate analytical procedures, subject to the conditions under Section 7.

3. **Manufacturing:** All balances are calibrated daily using an in-house procedure with weights that are compared annually to master weights and traceable to NIST. The balances are also calibrated annually by an ISO/IEC 17025 accredited calibration laboratory. Please refer to the NIST test number listed on the front of this certificate. Class A glassware is used in the manufacture and quality control of all standards. Good Laboratory Practices have been used throughout the preparation of this Standard.

4. **Homogeneity:** This product is sufficiently homogeneous and any sample size would be within the uncertainty budget.

5. **Stability:** The manufacturer guarantees the stability of this solution through the expiration date stated on the label, when handled and stored according to the conditions stated on the label

6. **Uncertainty:** The uncertainty values as stated on the face of this certificate have been determined using the EURACHEM/CITAC Guide. We report a combined expanded uncertainty equal to the positive square root of the total variance of the uncertainty of the components using the following formula: $u_a = \sqrt{(u(\mathrm{V}))^2 + (u(\mathrm{m}))^2 + (u(\mathrm{IV}))^2 + (u(\mathrm{RO}))^2}$ This formula represents uncertainty components from the mass, volume, short-term stability, long-term stability and homogeneity factors associated with the production of this product. The expanded uncertainty, assumes a normal distribution and a coverage factor of k=2 is chosen using approximately a 95% confidence level.

7. **Legal Notice and Limit of Liability:** This product is for routine laboratory analysis and research purposes only. The company's liability will be limited to replacement of product or refund of purchase price. Notice of claims must be made within thirty (30) days from date of delivery.

125 Market Street
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CERTIFICATE OF ANALYSIS

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Description: Hexachlorobutadiene
Lot: 222031188
Solvent: Methanol
Hazards: *Refer to SDS for complete safety information*

Signal Word: Danger

Date Certified: Mar 11, 2022
Expiration: Apr 11, 2024
Sample Size: 1 mL
Components: 1
Storage Condition: Ambient (>5 °C)

Certified Reference Material

ANAB ACCREDITED REFERENCE MATERIAL PRODUCER AR-1463

ilac-MRA

Component	CAS #	Purity % (GC/MS)	Prepared Concentration² (µg/mL)	Certified Analyte Concentration¹ (µg/mL)
Hexachlorobutadiene	87-68-3	98.0	2002	1962

K011468

This Certified Reference Material was verified in accordance with ISO/IEC 17025

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

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Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By: Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW23-SS1000

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	23C0071
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Solid	Laboratory ID:	23C0071-01 A	File ID:	03142326ECD7.D
Sampled:	03/02/23 09:33	Prepared:	03/07/23 13:30	Analyzed:	03/14/23 18:12
% Solids:	46.24	Preparation:	EPA 3546 (Microwave)	Initial/Final:	27.11 g Wet / 2.5 mL
Batch:	BLC0124	Sequence:	SLC0203	Calibration:	GB00069
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	1	1	45.5	1.6	4.0	
11097-69-1	Aroclor 1254	2	1	66.6	1.6	4.0	
11096-82-5	Aroclor 1260	2	1	61.3	0.6	4.0	

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9772*	*6.55*	*82.1*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9772*	*4.70*	*58.9*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9772*	*5.92*	*74.2*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9772*	*4.94*	*61.9*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230314.b/03142326ECD7.D
Data file 2: /230314.b/230314.b/03142326ECD7.D
Method: \\target\share\chem4\ecd7.i\230314.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 23C0071-01
Client ID:
Injection Date: 14-MAR-2023 18:12
Report Date: 03/15/2023 09:06
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.803	-0.004	156231	5.683	-0.006	130165	23.5	24.8	5.1	Tetrachloro-m-xylene
13.885	-0.011	133084	14.111	-0.008	169946	32.8	29.7	10.0	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	444429	-34.0
Hexabromobiphenyl	1429847	411513	-71.2 <-

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	358191	13.6
Hexabromobiphenyl	513946	375766	-26.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1248	1	8.394	-0.015	39064	180.1	1	8.298	-0.012	36559	213.8
Aroclor-1248	2	8.564	-0.021	36354	131.9	2	8.704	-0.013	32252	182.4
Aroclor-1248	3	8.981	-0.018	99509	191.4	3	9.214	0.039	45364	222.9
Aroclor-1248	4	9.284	-0.010	108114	408.4	4	9.531	-0.073	38849	159.0
		Total Col1Ave (4 peaks):			228.0		Total Col2Ave (4 peaks):			194.5 RPD = 16
		Corrected Ave (3 peaks):			167.8		Corrected Ave (3 peaks):			185.1 RPD = 10
										206.37
Aroclor-1254	1	9.284	-0.017	108114	242.3	1	9.436	-0.019	81244	298.4
Aroclor-1254	2	9.360	-0.021	43518	216.8	2	9.954	-0.021	49420	225.6
Aroclor-1254	3	9.656	-0.016	91941	320.4	3	10.103	-0.028	149101	314.6
Aroclor-1254	4	9.785	-0.026	147437	264.3	4	10.348	-0.031	184371	399.1
Aroclor-1254	5	10.119	-0.061	101871	291.3	5	10.552	-0.021	121528	432.1
		Total Col1Ave (5 peaks):			267.0		Total Col2Ave (5 peaks):			334.0 RPD = 22
		Corrected Ave (4 peaks):			253.7		Corrected Ave (4 peaks):			309.5 RPD = 20
					260.95					
Aroclor-1260	1	11.031	-0.017	55093	372.2	1	11.640	-0.016	73645	333.3
Aroclor-1260	2	11.346	-0.019	49082	317.3	2	11.902	-0.021	131750	233.6
Aroclor-1260	3	11.717	-0.024	149906	365.4	3	12.419	-0.021	60843	406.6
Aroclor-1260	4	12.118	-0.028	74569	361.0	4	12.485	-0.021	97094	255.4
Aroclor-1260	5	12.233	-0.014	32375	364.1	NS	---			----
		Total Col1Ave (5 peaks):			356.0		Total Col2Ave (4 peaks):			307.2 RPD = 15
		Corrected Ave (4 peaks):			352.0		Corrected Ave (3 peaks):			274.1 RPD = 25
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			

Total PCB Area Col1 (5.907 - 13.795) = 2874931 Col1 Total PCB = 0.5 ppm*

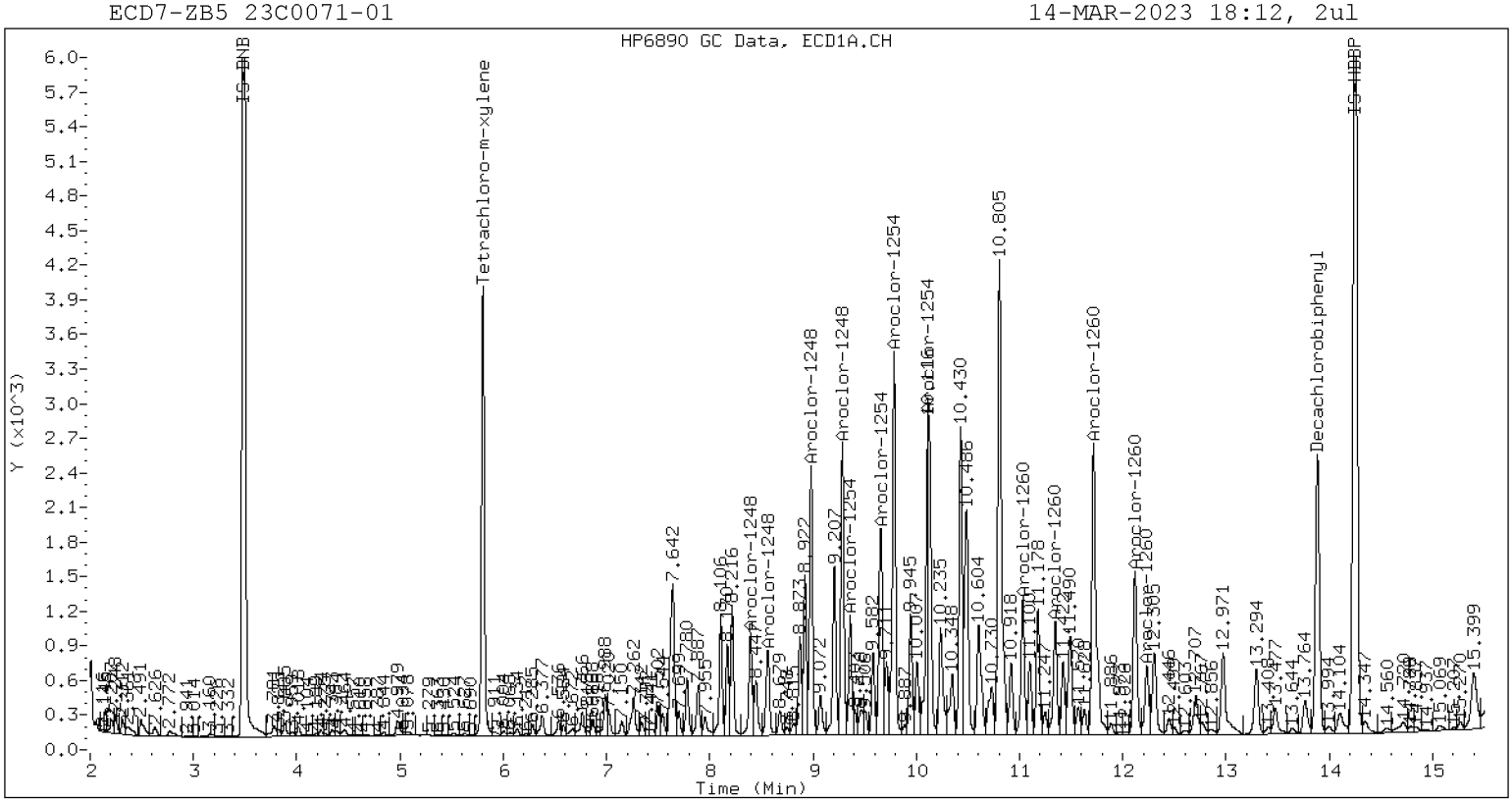
Total PCB Area Col2 (5.788 - 14.019) = 2567000 Col2 Total PCB = 0.6 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

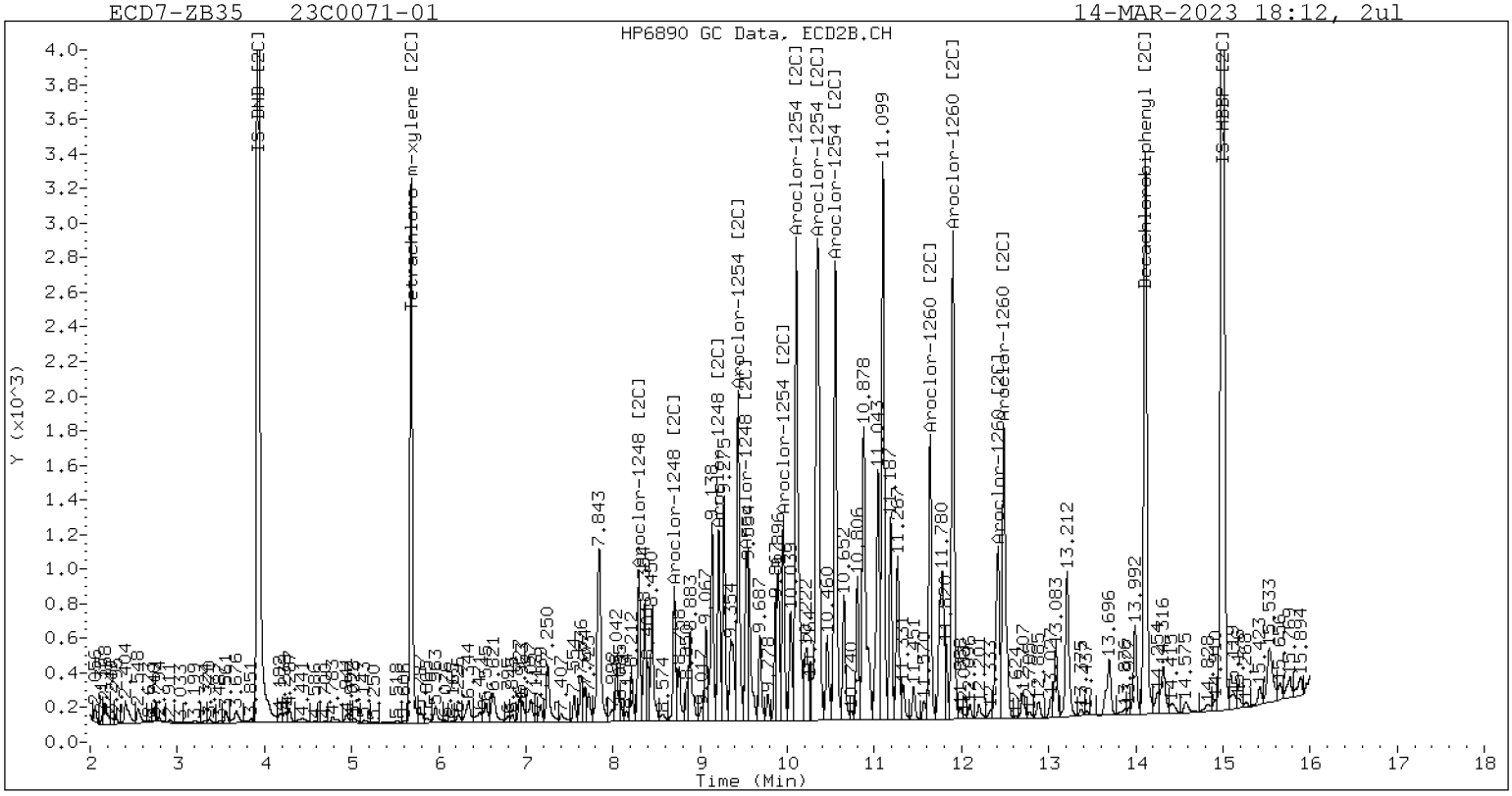
PCB Dual Column Chromatograms

ECD7-ZB5 23C0071-01 14-MAR-2023 18:12, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 23C0071-01 14-MAR-2023 18:12, 2ul

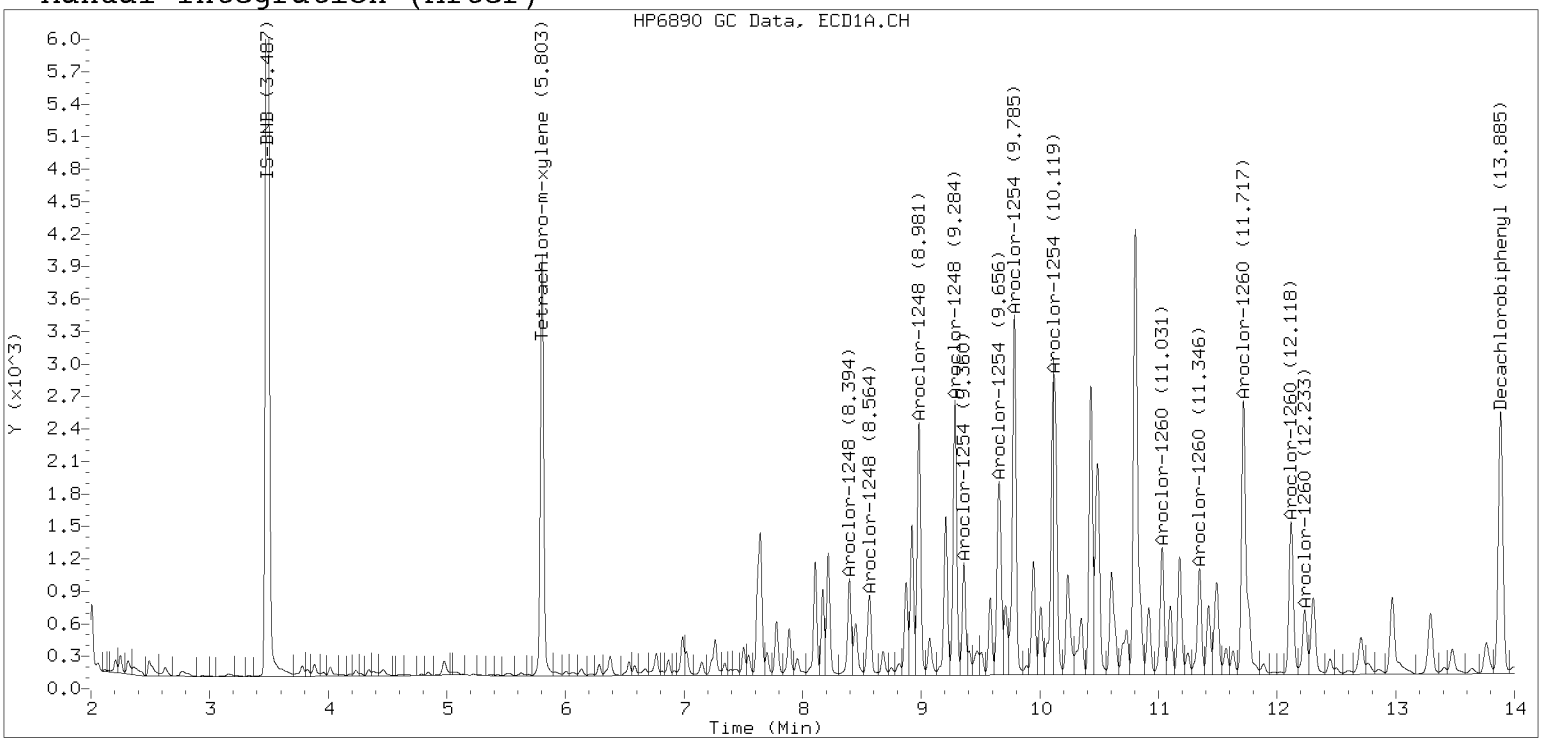


ZB-35 Manual Integration: YES

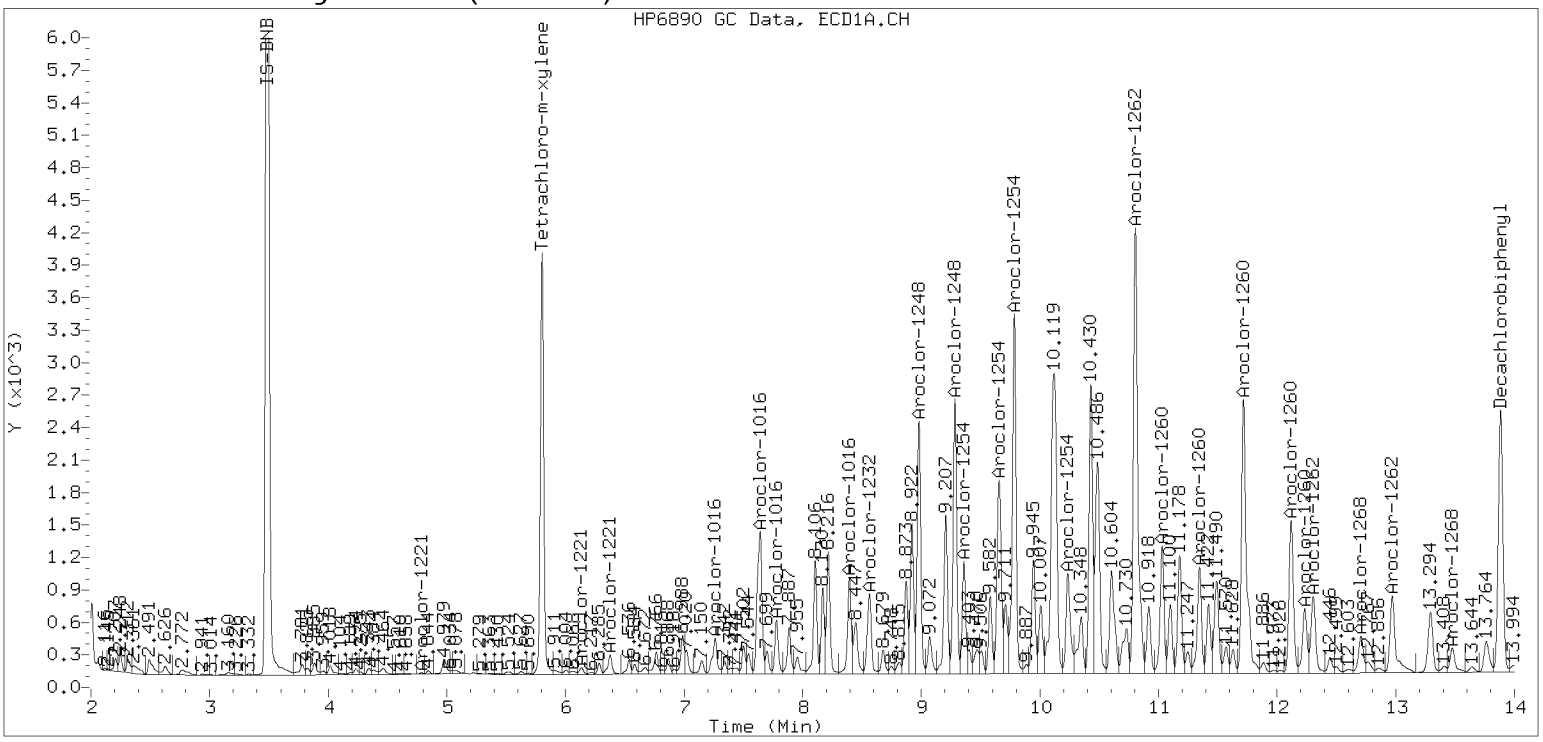
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230314.b/03142326ECD7.D Injection Date: 14-MAR-2023 18:12

Manual Integration (After)



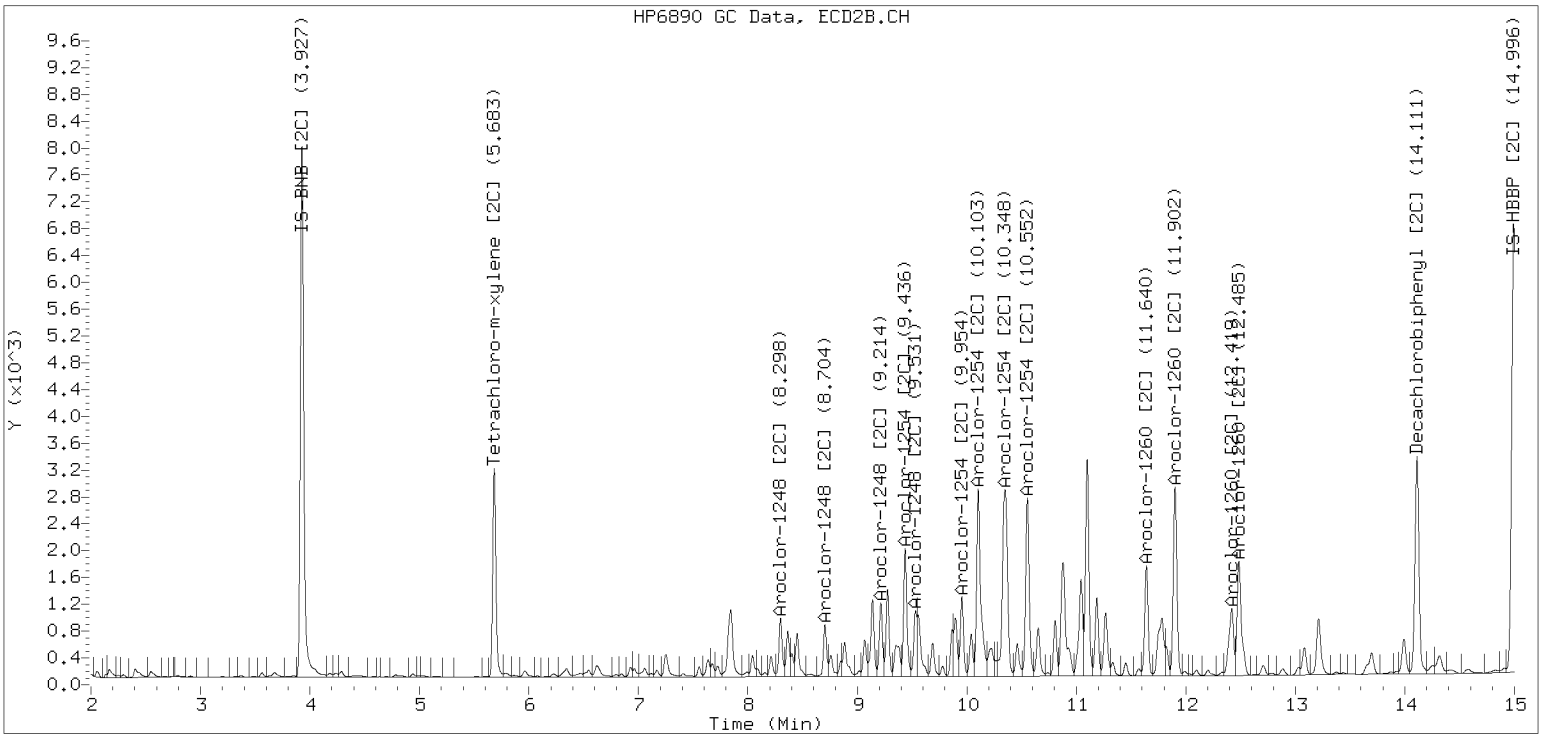
Processed Integration (Before)



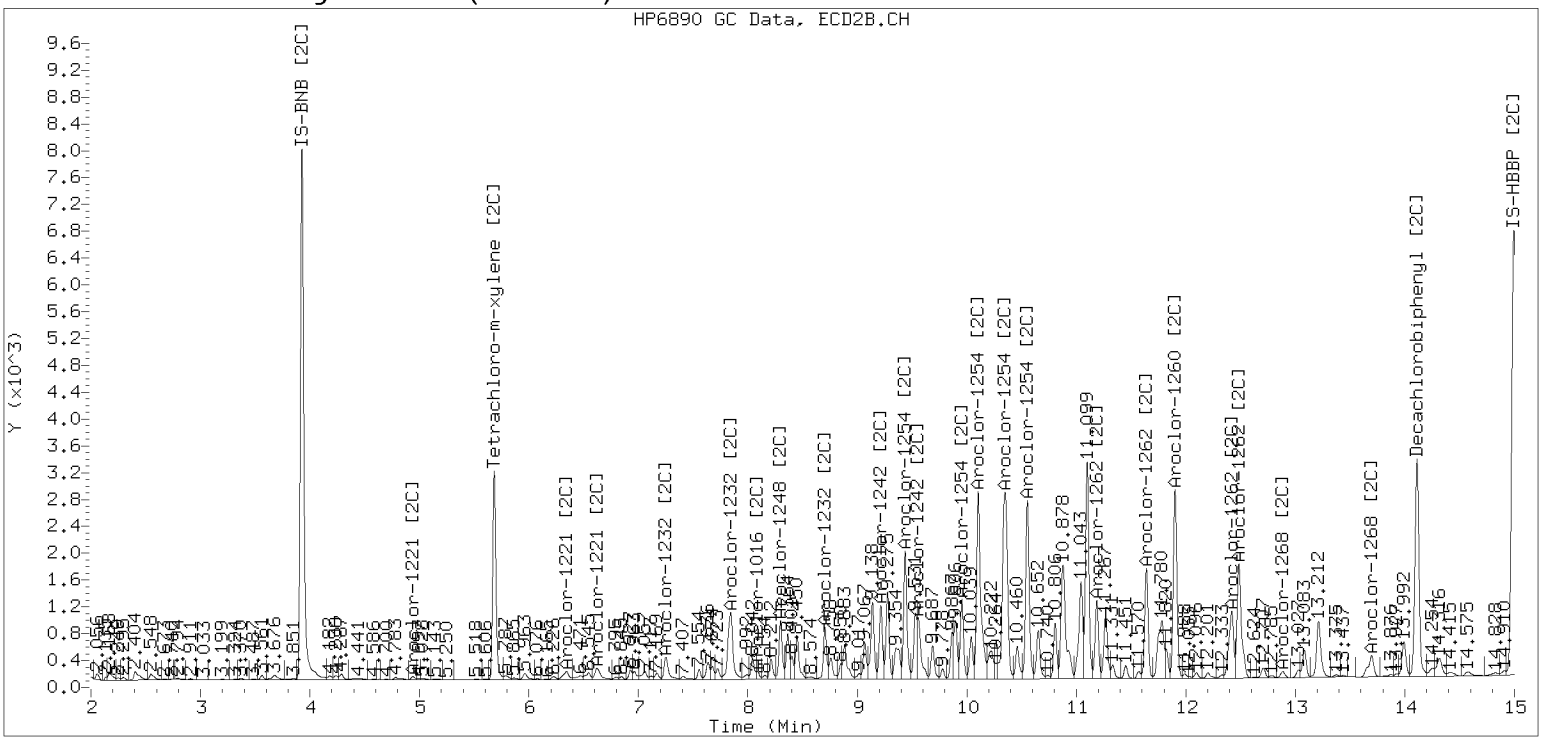
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230314.b/230314.b/03142326ECD7.D Injection Date: 14-MAR-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW23-SS1037

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	23C0071
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Solid	Laboratory ID:	23C0071-02 A	File ID:	03142327ECD7.D
Sampled:	03/02/23 09:56	Prepared:	03/07/23 13:30	Analyzed:	03/14/23 18:33
% Solids:	50.76	Preparation:	EPA 3546 (Microwave)	Initial/Final:	24.74 g Wet / 2.5 mL
Batch:	BLC0124	Sequence:	SLC0203	Calibration:	GB00069
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	1	1	26.3	1.6	4.0	
11097-69-1	Aroclor 1254	2	1	37.4	1.6	4.0	
11096-82-5	Aroclor 1260	2	1	31.1	0.6	4.0	

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9630*	*6.90*	*86.7*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9630*	*5.28*	*66.3*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9630*	*6.35*	*79.7*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9630*	*5.48*	*68.8*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230314.b/03142327ECD7.D
Data file 2: /230314.b/230314.b/03142327ECD7.D
Method: \\target\share\chem4\ecd7.i\230314.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 23C0071-02
Client ID:
Injection Date: 14-MAR-2023 18:33
Report Date: 03/15/2023 09:22
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.804	-0.002	173198	5.684	-0.004	146725	26.5	27.5	3.7	Tetrachloro-m-xylene
13.885	-0.009	143838	14.111	-0.008	183918	34.7	31.9	8.4	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	437232	-35.1
Hexabromobiphenyl	1429847	421164	-70.5 <-

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	363239	15.2
Hexabromobiphenyl	513946	378688	-26.3

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	ZB5 Col RT	Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1248	1	8.395	-0.014	23263	109.0	1	8.299	-0.012	22101	127.4
Aroclor-1248	2	8.565	-0.020	21425	79.0	2	8.705	-0.013	19099	106.5
Aroclor-1248	3	8.983	-0.016	55647	108.8	3	9.140	-0.036	29114	141.1
Aroclor-1248	4	9.285	-0.010	60416	232.0	4	9.533	-0.070	22311	~~90~~ 0
		Total Col1Ave (4 peaks):			132.2		Total Col2Ave (4 peaks):			116.3 RPD = 13
		Corrected Ave (3 peaks):			98.9		Corrected Ave (3 peaks):			108.0 RPD = 9
Aroclor-1254	1	9.285	-0.017	60416	137.6	1	9.438	-0.017	47193	170.9
Aroclor-1254	2	9.361	-0.021	24568	124.4	2	9.956	-0.020	27207	122.5
Aroclor-1254	3	9.659	-0.015	55446	196.4	3	10.105	-0.027	80976	168.5
Aroclor-1254	4	9.786	-0.028	86202	157.1	4	10.349	-0.030	110675	236.3
Aroclor-1254	5	10.122	-0.066	49456	~~143~~ 153.875	5	10.553	-0.020	68705	240.9
		Total Col1Ave (5 peaks):			151.9		Total Col2Ave (5 peaks):			187.8 RPD = 21
		Corrected Ave (4 peaks):			140.7		Corrected Ave (4 peaks):			174.5 RPD = 21
Aroclor-1260	1	11.032	-0.017	29610	195.4	1	11.642	-0.014	39294	176.5
Aroclor-1260	2	11.346	-0.019	23418	147.9	2	11.903	-0.019	66305	116.7
Aroclor-1260	3	11.718	-0.022	72041	171.6	3	12.420	-0.020	30825	204.4
Aroclor-1260	4	12.118	-0.028	36945	174.7	4	12.486	-0.020	48540	126.7
Aroclor-1260	5	12.234	-0.013	17411	191.3	NS	---			----
		Total Col1Ave (5 peaks):			176.2		Total Col2Ave (4 peaks):			156.1 RPD = 12
		Corrected Ave (4 peaks):			171.4		Corrected Ave (3 peaks):			140.0 RPD = 20
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			

125

Total PCB Area Col1 (5.907 - 13.795) = 1648764 Col1 Total PCB = 0.3 ppm*

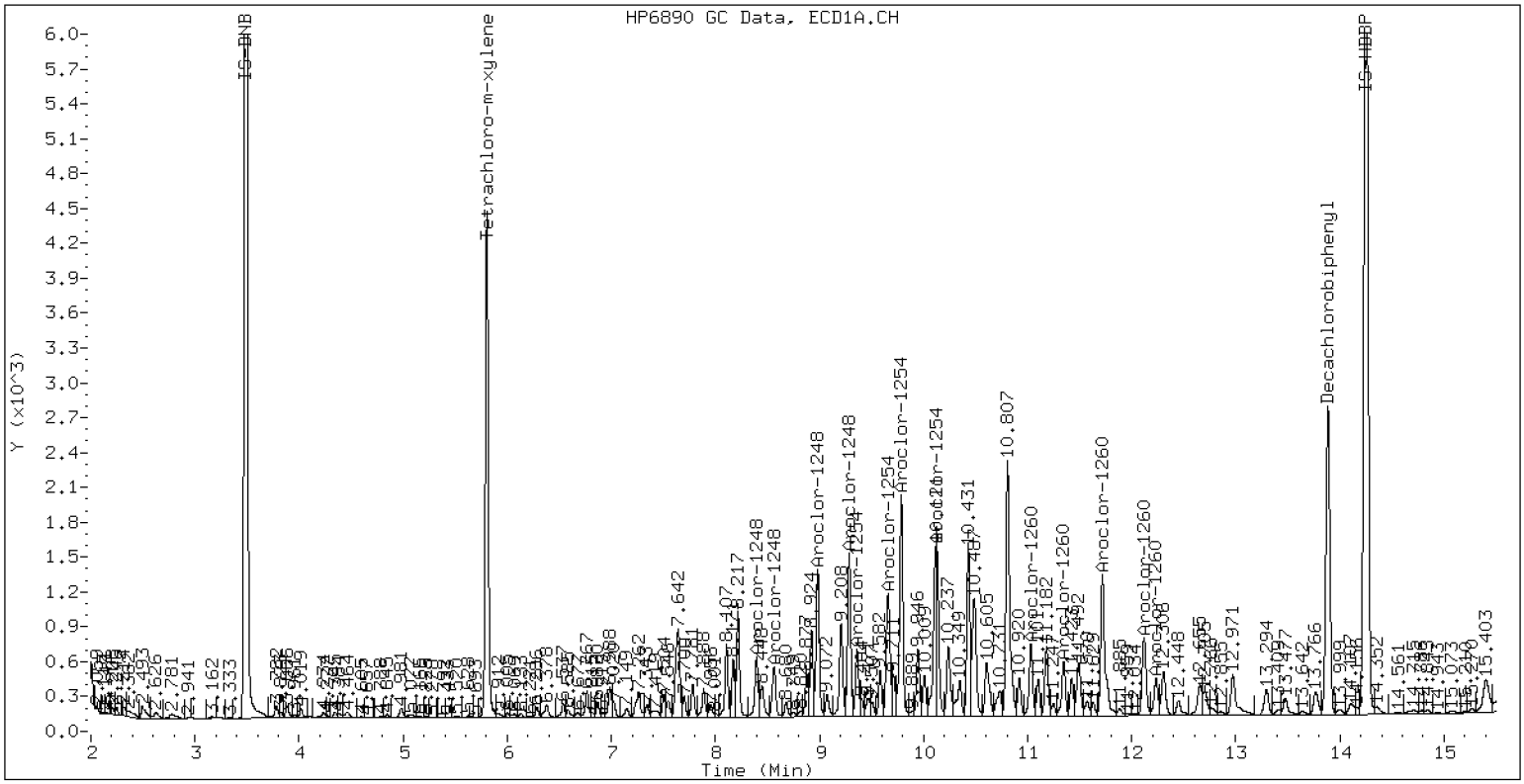
Total PCB Area Col2 (5.788 - 14.019) = 1500286 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

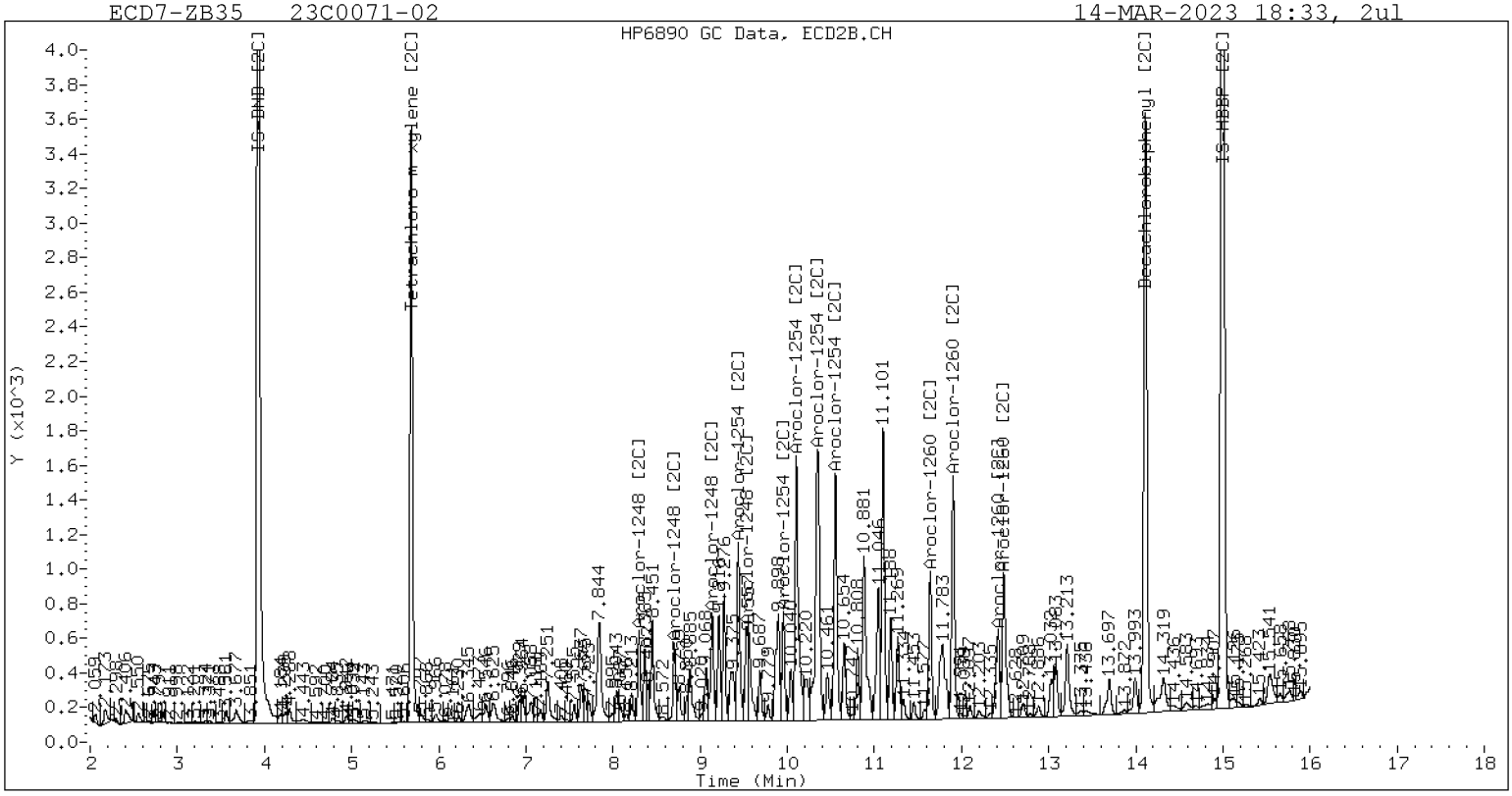
PCB Dual Column Chromatograms

ECD7-ZB5 23C0071-02 14-MAR-2023 18:33, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 23C0071-02 14-MAR-2023 18:33, 2ul

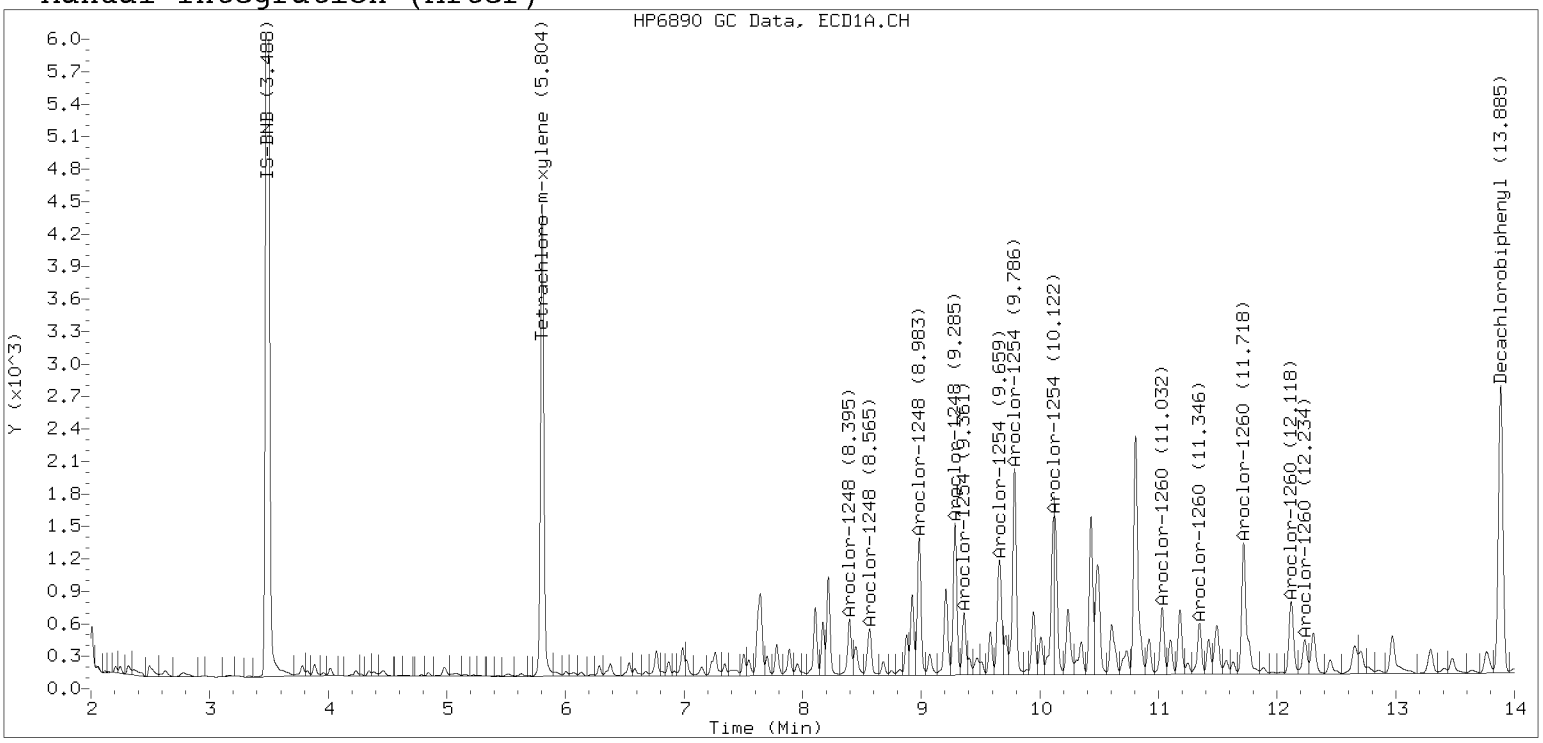


ZB-35 Manual Integration: YES

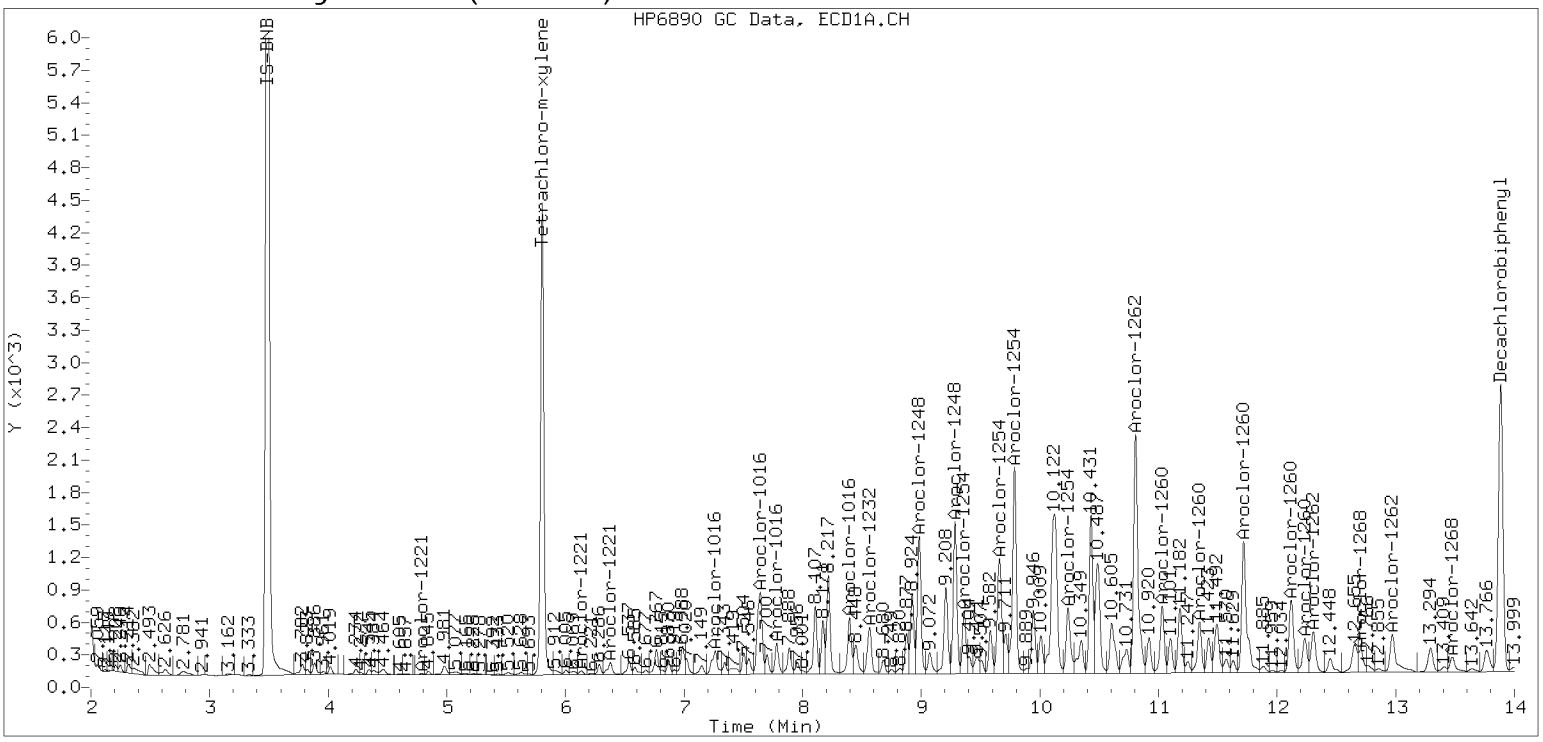
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230314.b/03142327ECD7.D Injection Date: 14-MAR-2023 18:33

Manual Integration (After)



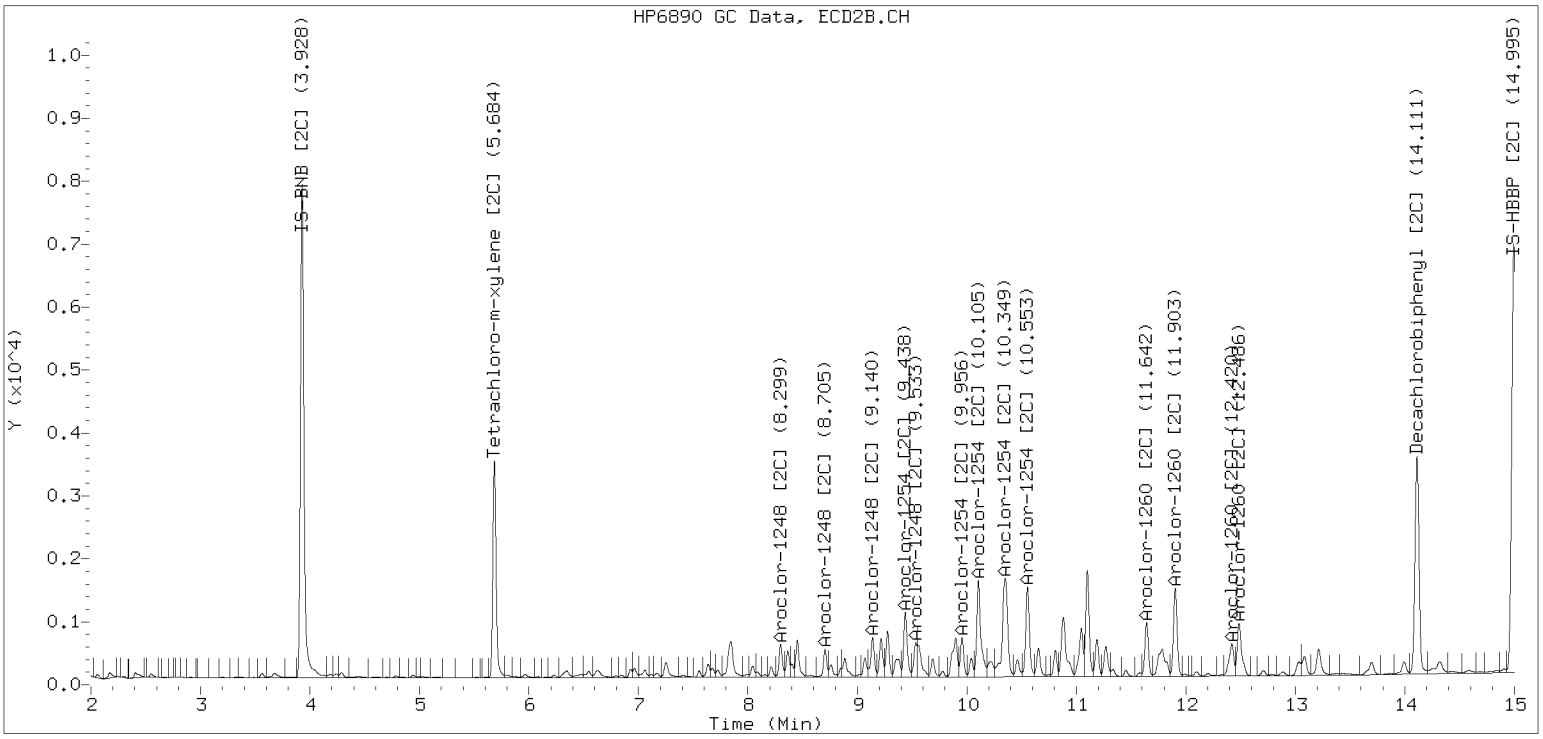
Processed Integration (Before)



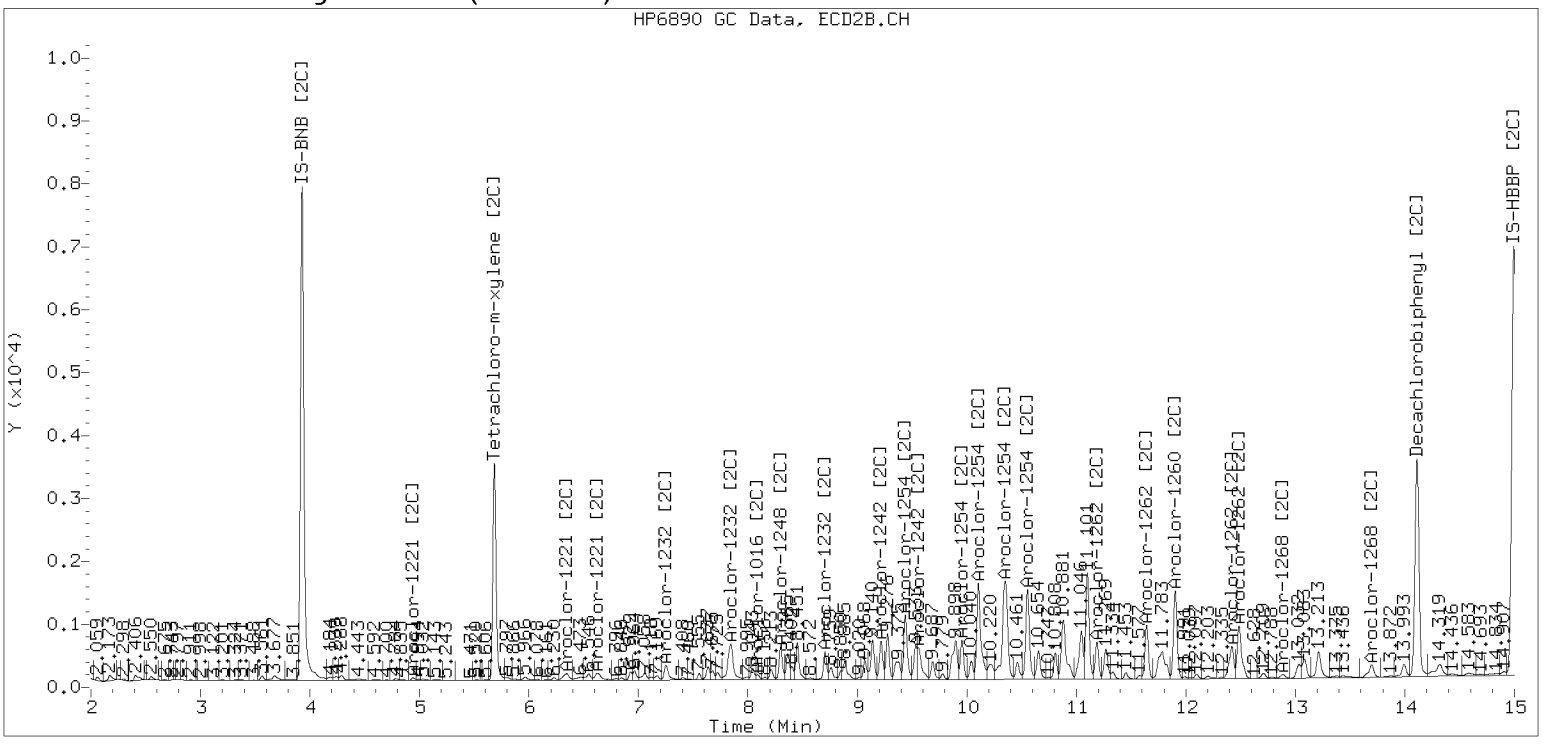
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230314.b/230314.b/03142327ECD7.D Injection Date: 14-MAR-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW23-SS1036

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	23C0071
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Solid	Laboratory ID:	23C0071-03 A	File ID:	03142328ECD7.D
Sampled:	03/02/23 10:10	Prepared:	03/07/23 13:30	Analyzed:	03/14/23 18:53
% Solids:	47.57	Preparation:	EPA 3546 (Microwave)	Initial/Final:	26.35 g Wet / 2.5 mL
Batch:	BLC0124	Sequence:	SLC0203	Calibration:	GB00069
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	1	1	35.4	1.6	4.0	
11097-69-1	Aroclor 1254	2	1	53.3	1.6	4.0	
11096-82-5	Aroclor 1260	2	1	47.6	0.6	4.0	

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9779*	*6.74*	*84.4*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9779*	*4.99*	*62.6*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9779*	*6.30*	*78.9*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9779*	*5.25*	*65.8*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230314.b/03142328ECD7.D
Data file 2: /230314.b/230314.b/03142328ECD7.D
Method: \\target\share\chem4\ecd7.i\230314.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 23C0071-03
Client ID:
Injection Date: 14-MAR-2023 18:53
Report Date: 03/15/2023 09:29
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.804	-0.003	165719	5.684	-0.004	140163	25.0	26.3	5.0	Tetrachloro-m-xylene
13.885	-0.010	134761	14.111	-0.008	176334	33.8	31.6	6.7	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	443319	-34.2
Hexabromobiphenyl	1429847	405199	-71.7 <-

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	362936	15.1
Hexabromobiphenyl	513946	366678	-28.7

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	8.396	-0.013	30270	139.9	1	8.299	-0.012	28083	162.1
Aroclor-1248	2	8.565	-0.020	27137	98.7	2	8.704	-0.013	25647	143.1
Aroclor-1248	3	8.982	-0.017	78180	150.7	3	9.139	-0.037	40937	198.5
Aroclor-1248	4	9.285	-0.010	84815	321.2	4	9.532	-0.072	31748	128.2
	Total Col1Ave (4 peaks):				177.6	Total Col2Ave (4 peaks):				158.0 RPD = 12
	Corrected Ave (3 peaks):				129.8	Corrected Ave (3 peaks):				144.5 RPD = 11
										167.9
Aroclor-1254	1	9.285	-0.018	84815	190.5	1	9.437	-0.018	66406	240.7
Aroclor-1254	2	9.360	-0.022	34212	170.9	2	9.955	-0.020	39923	179.9
Aroclor-1254	3	9.658	-0.017	75890	265.2	3	10.104	-0.028	116100	241.8
Aroclor-1254	4	9.786	-0.028	118472	212.9	4	10.349	-0.031	154087	329.2
Aroclor-1254	5	10.123	-0.065	149446	420.5	5	10.552	-0.021	98217	344.6
	Total Col1Ave (5 peaks):				253.6	Total Col2Ave (5 peaks):				267.3 RPD = 5
	Corrected Ave (4 peaks):				209.9	Corrected Ave (4 peaks):				247.9 RPD = 17
Aroclor-1260	1	11.032	-0.016	41401	284.0	1	11.641	-0.015	58876	273.1
Aroclor-1260	2	11.347	-0.018	35965	236.1	2	11.903	-0.020	97924	178.0
Aroclor-1260	3	11.717	-0.023	101747	251.9	3	12.421	-0.019	44138	302.3
Aroclor-1260	4	12.118	-0.029	52900	260.1	4	12.485	-0.020	74322	200.4
Aroclor-1260	5	12.233	-0.013	25870	295.5	NS	---			----
	Total Col1Ave (5 peaks):				265.5	Total Col2Ave (4 peaks):				238.4 RPD = 11
	Corrected Ave (4 peaks):				258.0	Corrected Ave (3 peaks):				217.1 RPD = 17
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.907 - 13.795) = 2195007 Col1 Total PCB = 0.4 ppm*

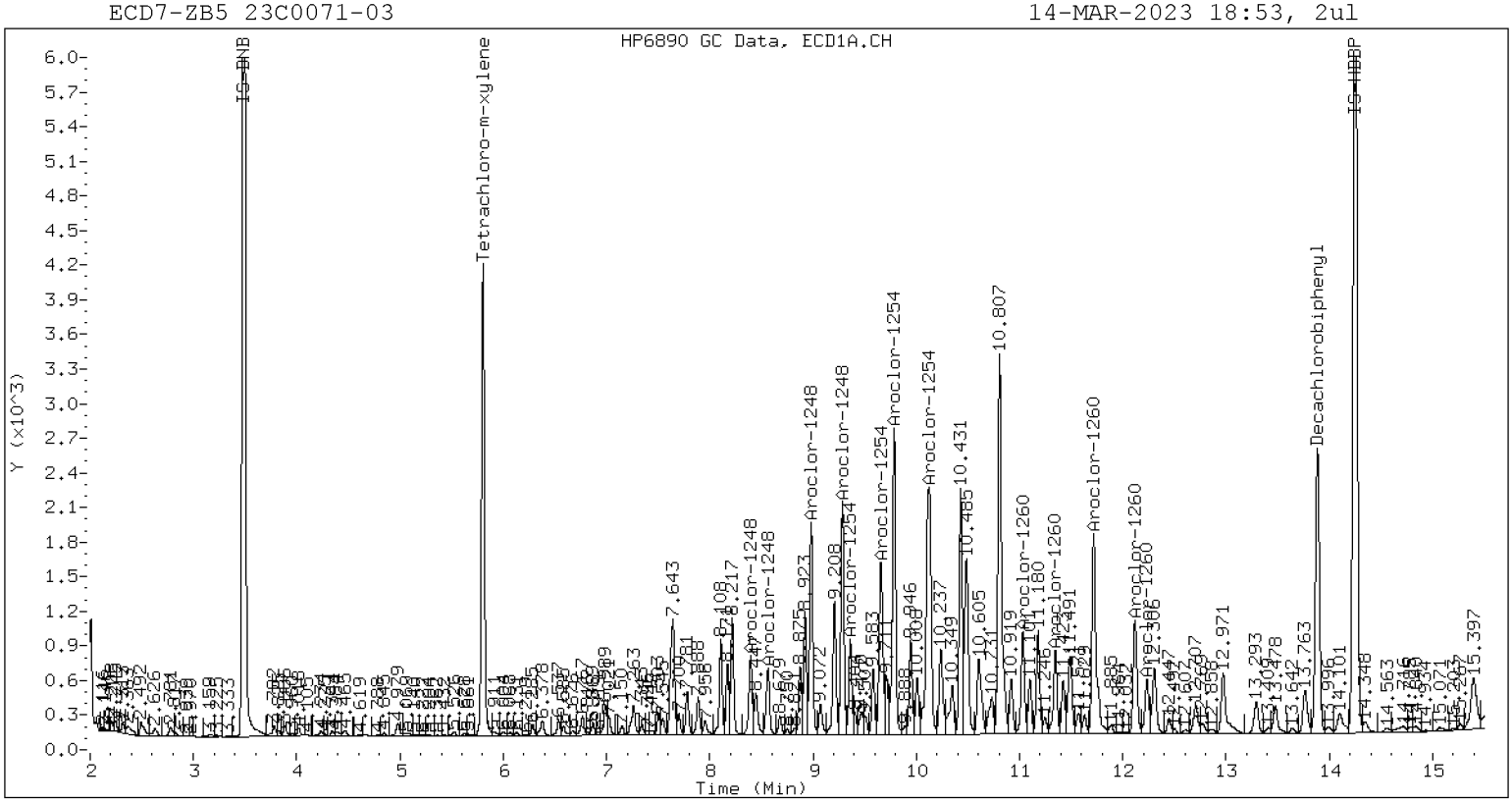
Total PCB Area Col2 (5.788 - 14.019) = 2059091 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

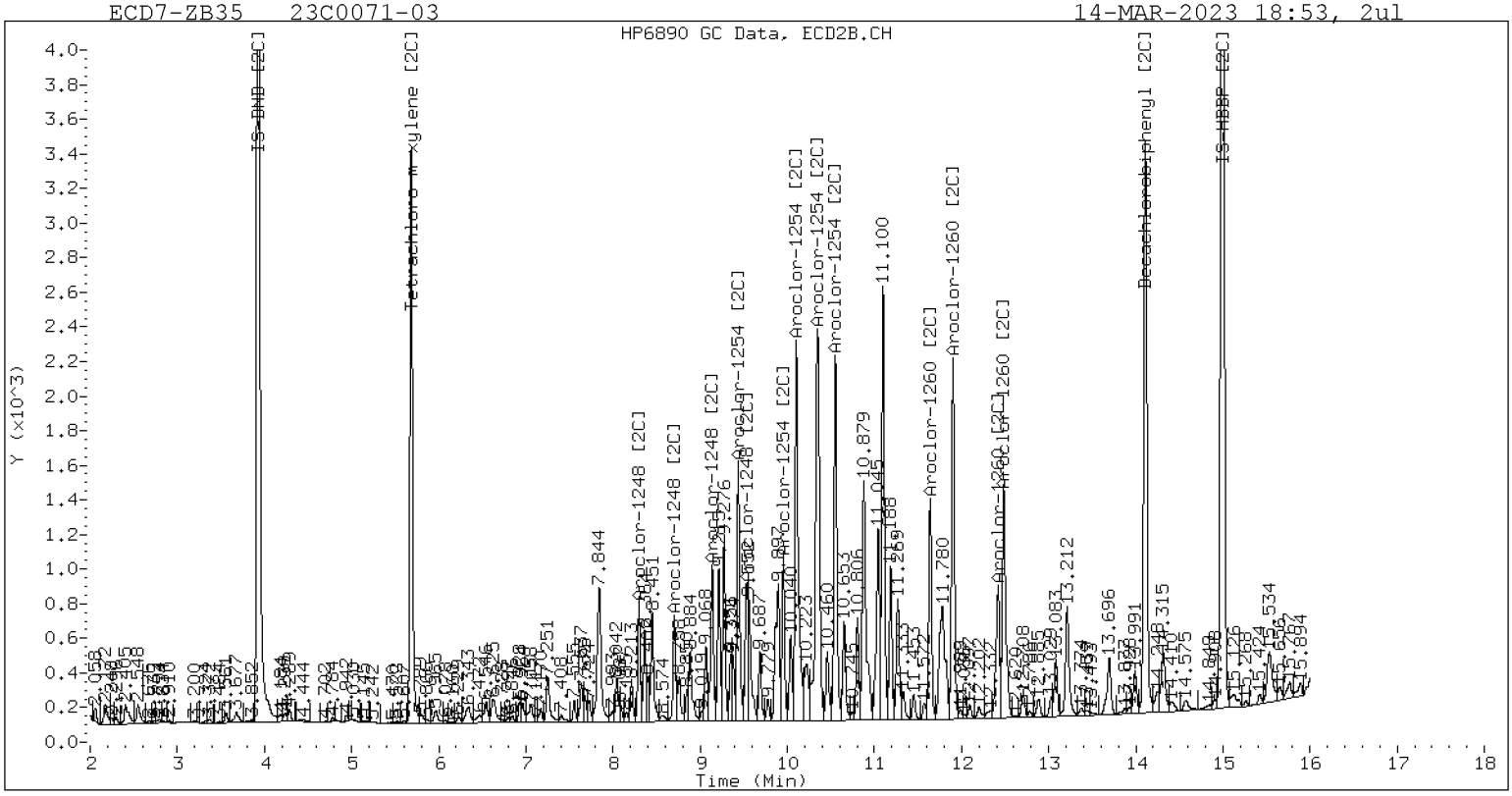
PCB Dual Column Chromatograms

ECD7-ZB5 23C0071-03 14-MAR-2023 18:53, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 23C0071-03 14-MAR-2023 18:53, 2ul

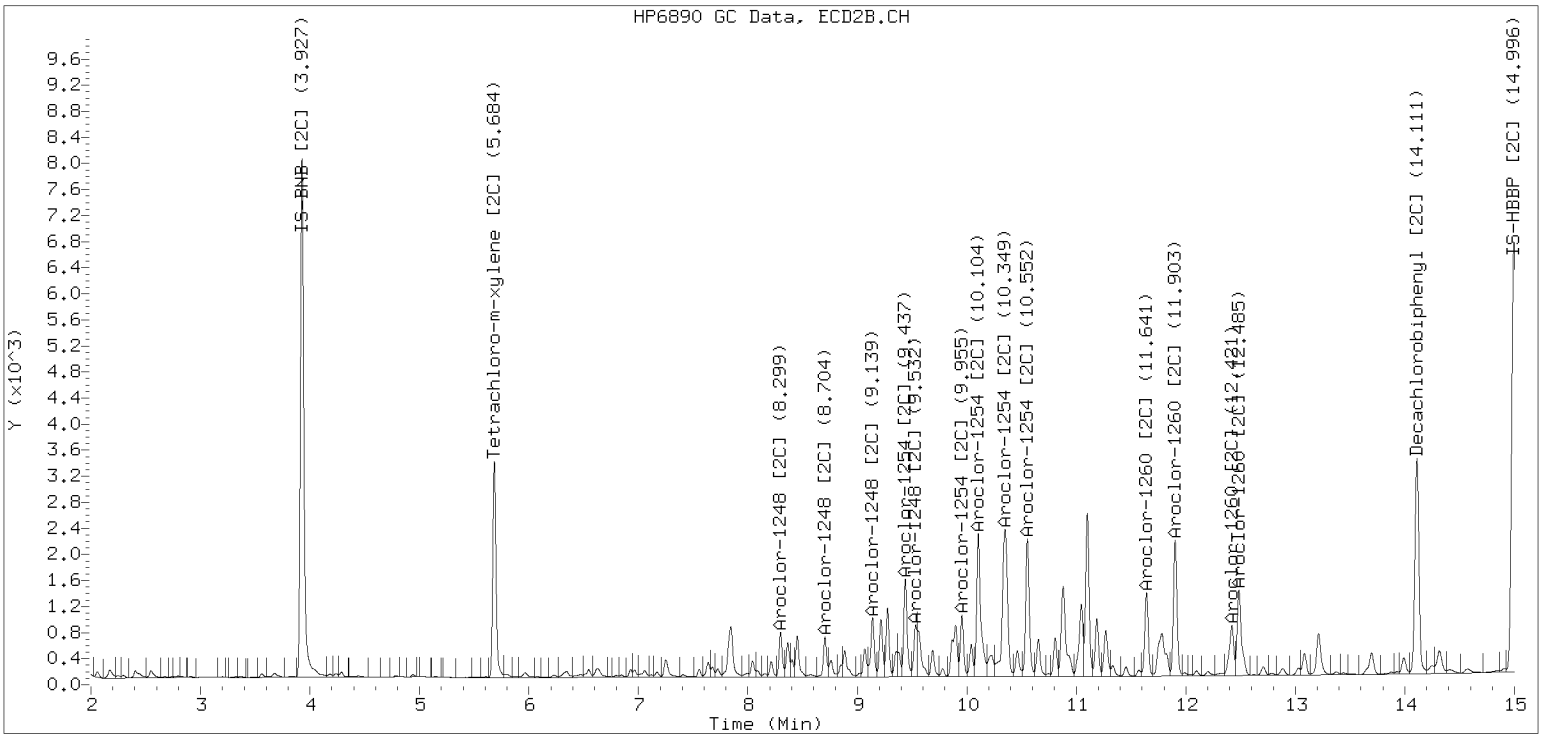


ZB-35 Manual Integration: YES

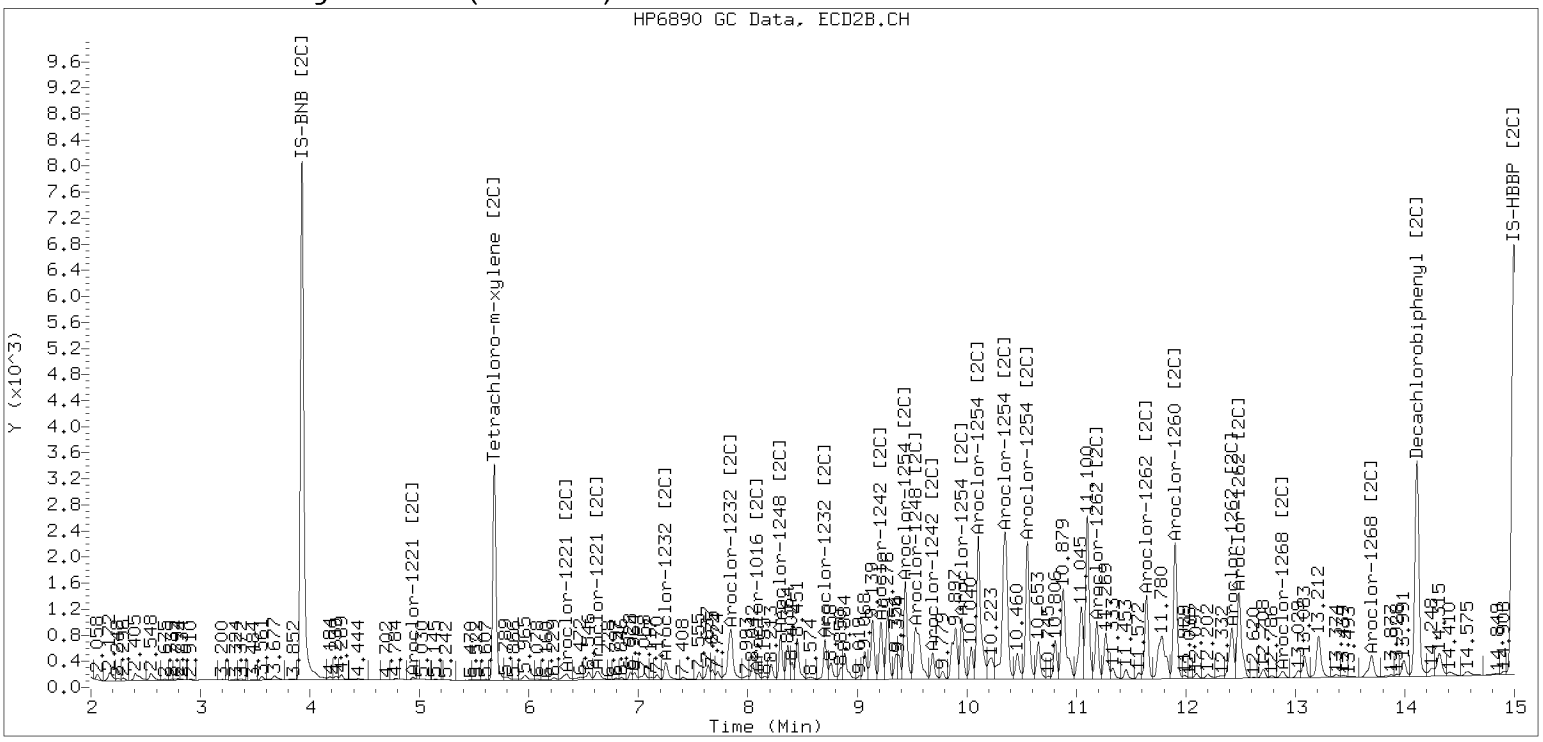
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230314.b/230314.b/03142328ECD7.D Injection Date: 14-MAR-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW23-SS1044

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	23C0071
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Solid	Laboratory ID:	23C0071-04 A	File ID:	03142329ECD7.D
Sampled:	03/02/23 10:22	Prepared:	03/07/23 13:30	Analyzed:	03/14/23 19:14
% Solids:	47.78	Preparation:	EPA 3546 (Microwave)	Initial/Final:	26.21 g Wet / 2.5 mL
Batch:	BLC0124	Sequence:	SLC0203	Calibration:	GB00069
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	1	1	32.5	1.6	4.0	
11097-69-1	Aroclor 1254	2	1	47.5	1.6	4.0	
11096-82-5	Aroclor 1260	2	1	45.5	0.6	4.0	

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9852*	*6.93*	*86.8*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9852*	*5.14*	*64.3*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9852*	*6.50*	*81.4*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9852*	*5.26*	*65.9*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230314.b/03142329ECD7.D
Data file 2: /230314.b/230314.b/03142329ECD7.D
Method: \\target\share\chem4\ecd7.i\230314.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 23C0071-04
Client ID:
Injection Date: 14-MAR-2023 19:14
Report Date: 03/15/2023 09:29
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.804	-0.003	171564	5.683	-0.006	143714	25.7	26.4	2.4	Tetrachloro-m-xylene
13.883	-0.011	136945	14.110	-0.009	180302	34.7	32.5	6.4	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	446487	-33.7
Hexabromobiphenyl	1429847	400561	-72.0 <-

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	371624	17.9
Hexabromobiphenyl	513946	363756	-29.2

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	ZB5 Col RT	Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1248	1	8.395	-0.014	31068	142.6	1	8.298	-0.013	25363	142.9
Aroclor-1248	2	8.564	-0.021	25104	90.7	2	8.703	-0.014	23344	127.2
Aroclor-1248	3	8.982	-0.017	69635	133.3	3	9.138	-0.038	36228	171.6
Aroclor-1248	4	9.285	-0.010	75645	284.4	4	9.531	-0.073	31118	122.8
		Total Col1Ave (4 peaks):			162.8		Total Col2Ave (4 peaks):			141.1 RPD = 14
		Corrected Ave (3 peaks):			122.2		Corrected Ave (3 peaks):			131.0 RPD = 7
									147.23	
Aroclor-1254	1	9.285	-0.018	75645	168.7	1	9.436	-0.019	60847	215.4
Aroclor-1254	2	9.360	-0.022	30637	151.9	2	9.954	-0.021	34424	151.5
Aroclor-1254	3	9.659	-0.015	70503	244.6	3	10.103	-0.029	104215	212.0
Aroclor-1254	4	9.785	-0.029	106905	190.7	4	10.349	-0.030	140784	293.7
Aroclor-1254	5	10.121	-0.068	62647	178.3	5	10.552	-0.021	92720	317.7
		Total Col1Ave (5 peaks):			186.9		Total Col2Ave (5 peaks):			238.1 RPD = 24
		Corrected Ave (4 peaks):			172.4		Corrected Ave (4 peaks):			218.2 RPD = 23
					188.975					
Aroclor-1260	1	11.031	-0.018	40032	277.8	1	11.640	-0.016	53878	251.9
Aroclor-1260	2	11.346	-0.019	33171	220.3	2	11.902	-0.020	96668	177.1
Aroclor-1260	3	11.717	-0.023	103015	258.0	3	12.419	-0.021	43018	297.0
Aroclor-1260	4	12.117	-0.030	49719	247.3	4	12.485	-0.021	68253	185.5
Aroclor-1260	5	12.233	-0.014	23426	270.7	NS	---			----
		Total Col1Ave (5 peaks):			254.8		Total Col2Ave (4 peaks):			227.9 RPD = 11
		Corrected Ave (4 peaks):			249.1		Corrected Ave (3 peaks):			204.8 RPD = 19
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			

Total PCB Area Col1 (5.907 - 13.795) = 2071363 Col1 Total PCB = 0.4 ppm*

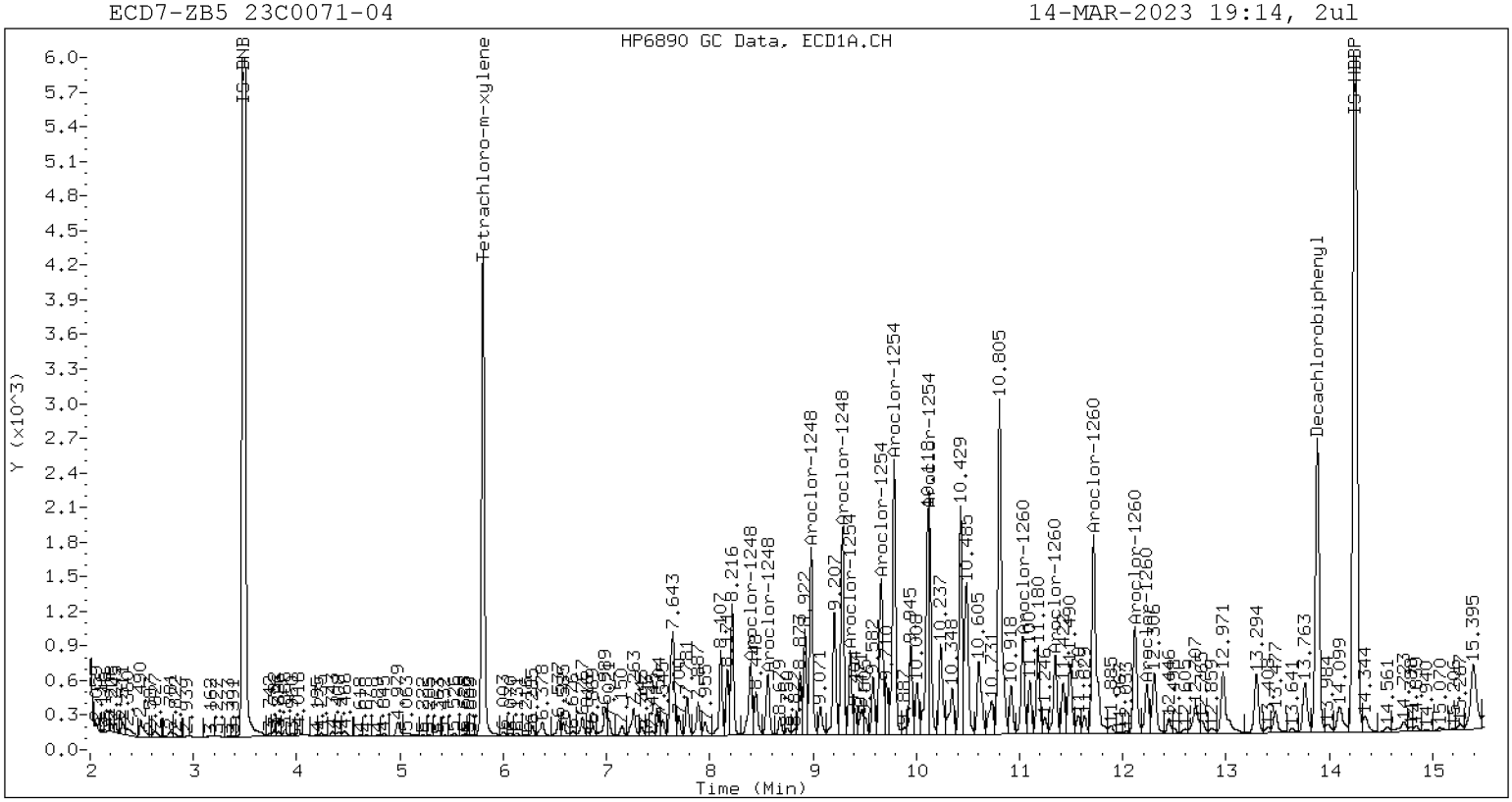
Total PCB Area Col2 (5.788 - 14.019) = 1920845 Col2 Total PCB = 0.4 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

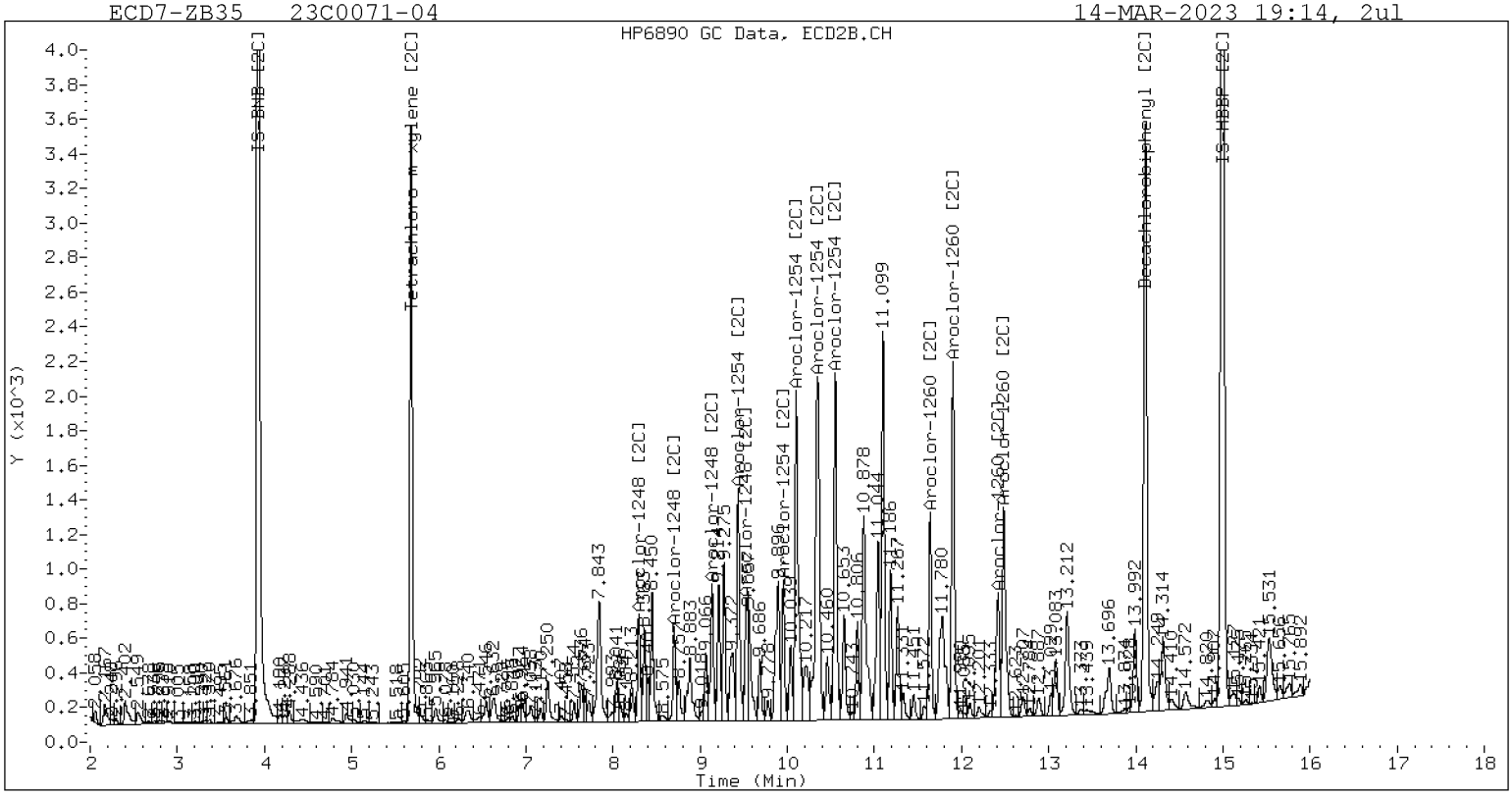
PCB Dual Column Chromatograms

ECD7-ZB5 23C0071-04 14-MAR-2023 19:14, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 23C0071-04 14-MAR-2023 19:14, 2ul

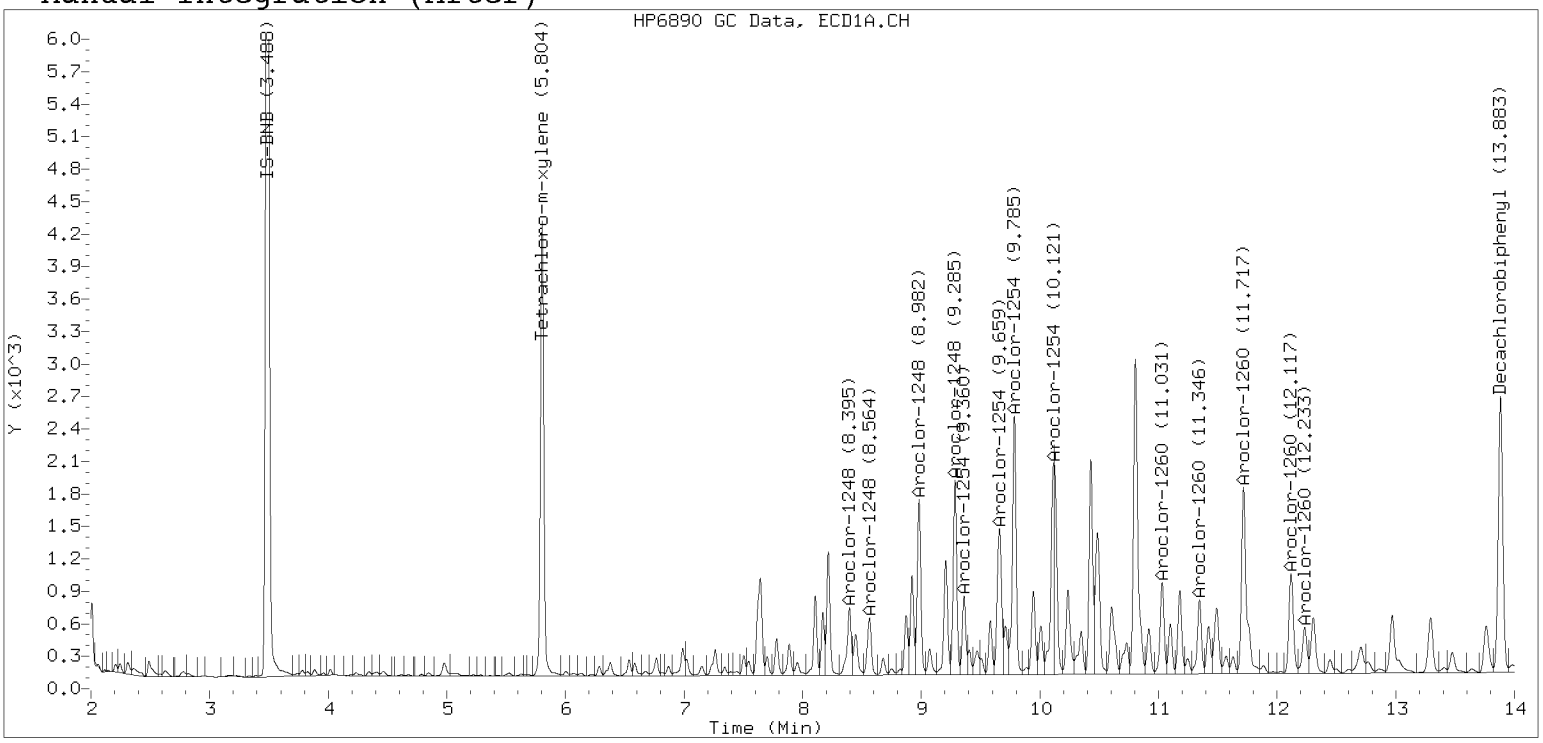


ZB-35 Manual Integration: YES

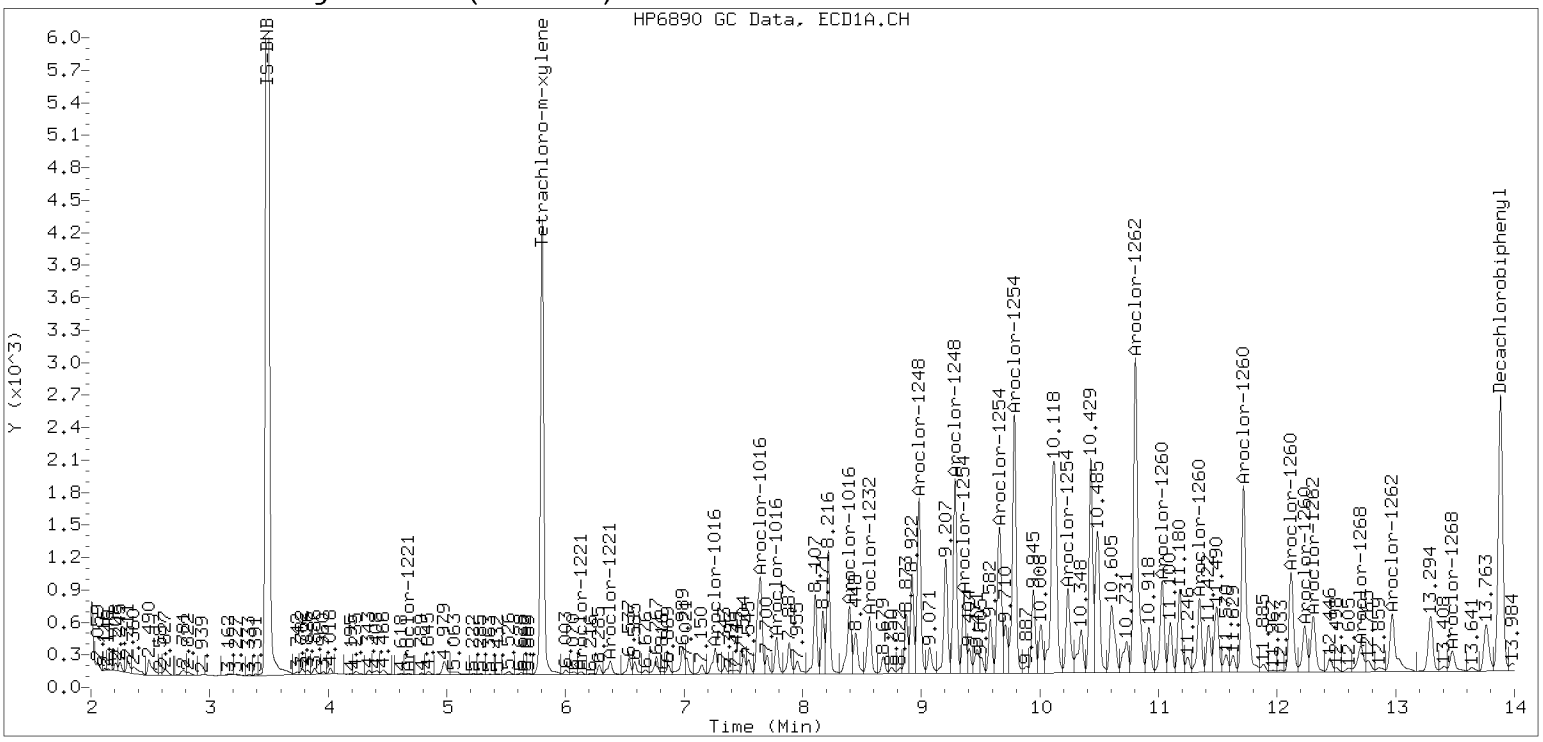
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230314.b/03142329ECD7.D Injection Date: 14-MAR-2023 19:14

Manual Integration (After)



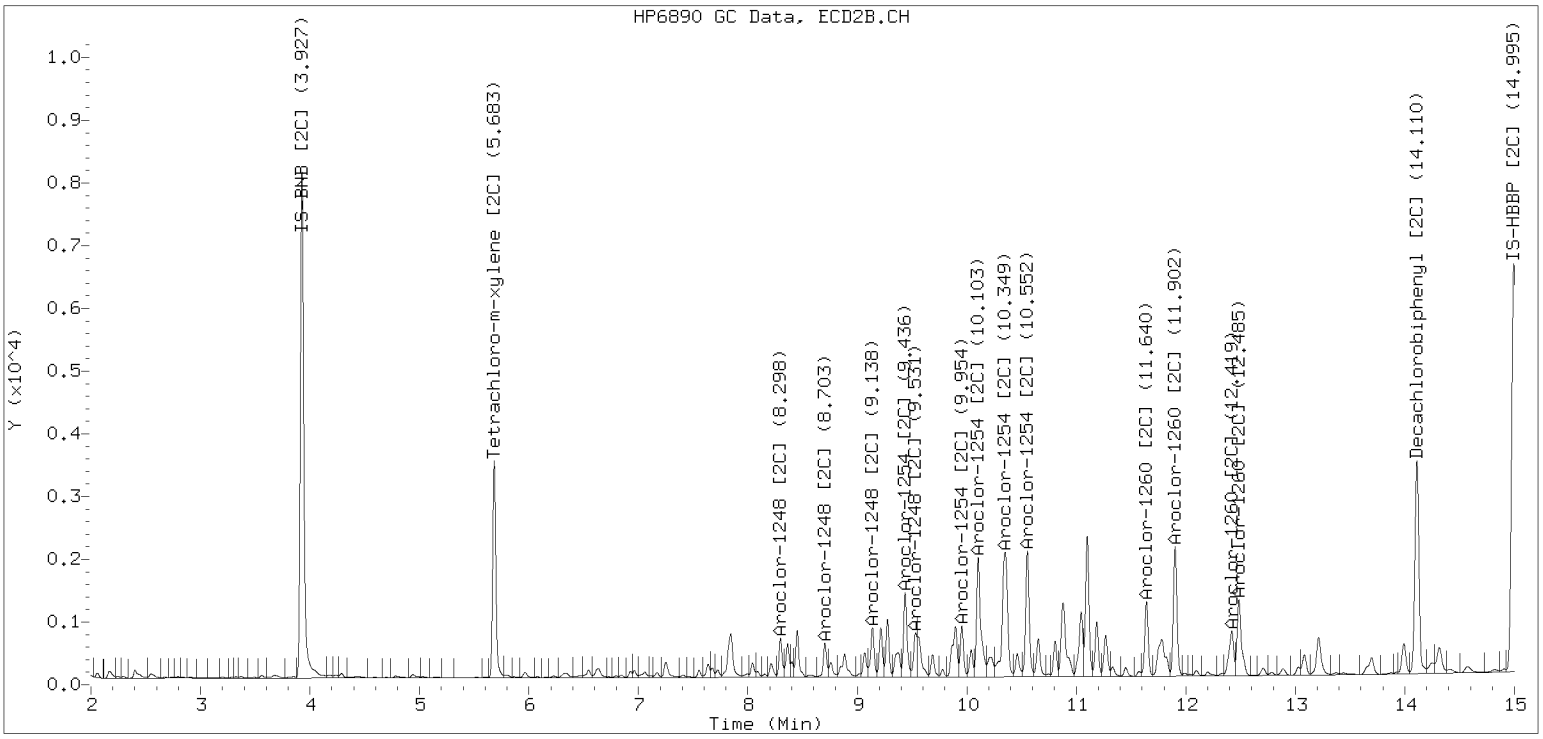
Processed Integration (Before)



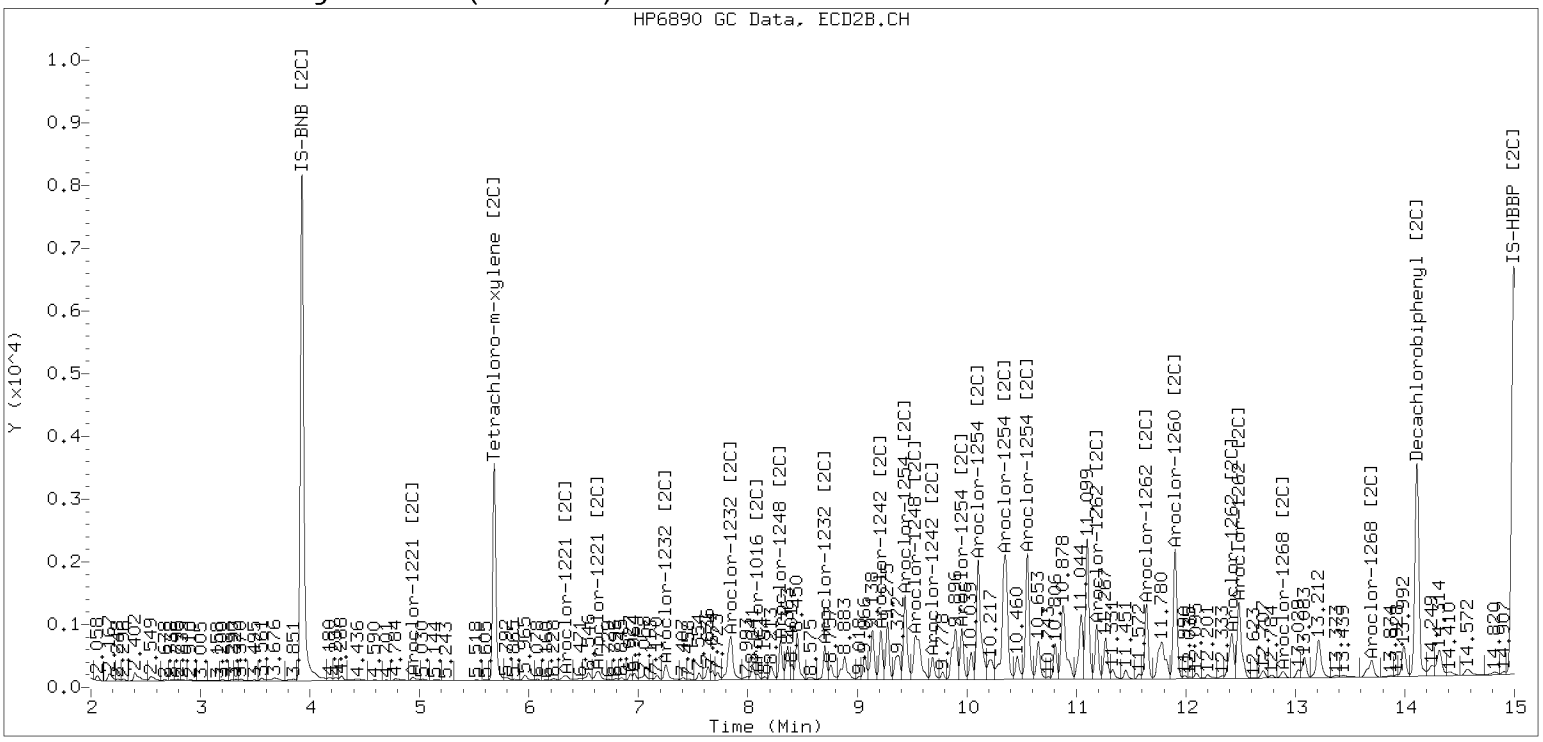
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230314.b/230314.b/03142329ECD7.D Injection Date: 14-MAR-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW23-SS1048

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	23C0071
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Solid	Laboratory ID:	23C0071-05 A	File ID:	03142330ECD7.D
Sampled:	03/02/23 10:32	Prepared:	03/07/23 13:30	Analyzed:	03/14/23 19:35
% Solids:	50.00	Preparation:	EPA 3546 (Microwave)	Initial/Final:	25 g Wet / 2.5 mL
Batch:	BLC0124	Sequence:	SLC0203	Calibration:	GB00069
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	2	1	47.6	1.6	4.0	
11097-69-1	Aroclor 1254	2	1	57.7	1.6	4.0	
11096-82-5	Aroclor 1260	2	1	51.1	0.6	4.0	

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*8.0000*	*6.94*	*86.7*	*40 - 126*	
Tetrachlorometaxylene	*1*	*8.0000*	*5.21*	*65.1*	*44 - 120*	
Decachlorobiphenyl	*2*	*8.0000*	*6.33*	*79.1*	*40 - 126*	
Tetrachlorometaxylene	*2*	*8.0000*	*5.41*	*67.6*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230314.b/03142330ECD7.D
Data file 2: /230314.b/230314.b/03142330ECD7.D
Method: \\target\share\chem4\ecd7.i\230314.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 23C0071-05
Client ID:
Injection Date: 14-MAR-2023 19:35
Report Date: 03/15/2023 09:29
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.804	-0.002	168074	5.684	-0.005	142092	26.1	27.0	3.7	Tetrachloro-m-xylene
13.884	-0.010	137593	14.110	-0.009	180460	34.7	31.7	9.2	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D	
Bromo-Nitrobenzene	673778	432095	-35.9	
Hexabromobiphenyl	1429847	402676	-71.8	<-

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	358271	13.6
Hexabromobiphenyl	513946	374319	-27.2

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	ZB5 Col RT	Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1248	1	8.395	-0.014	45257	214.7	1	8.297	-0.013	44890	262.4
Aroclor-1248	2	8.563	-0.022	44452	165.9	2	8.703	-0.014	39288	222.1
Aroclor-1248	3	8.981	-0.018	93111	184.2	3	9.214	0.038	46589	228.9
Aroclor-1248	4	9.284	-0.010	91786	356.6	4	9.533	-0.070	32523	~~133~~.1
		Total Col1Ave (4 peaks):			230.3		Total Col2Ave (4 peaks):			211.6 RPD = 8
		Corrected Ave (3 peaks):			188.2		Corrected Ave (3 peaks):			194.7 RPD = 3
										237.8
Aroclor-1254	1	9.284	-0.018	91786	211.5	1	9.436	-0.019	70461	258.8
Aroclor-1254	2	9.360	-0.022	37455	191.9	2	9.954	-0.021	42938	196.0
Aroclor-1254	3	9.655	-0.019	76140	272.9	3	10.103	-0.029	125413	264.6
Aroclor-1254	4	9.785	-0.029	127102	234.3	4	10.348	-0.032	163507	353.9
Aroclor-1254	5	10.128	-0.060	64589	~~190~~.0	5	10.551	-0.022	103748	368.8
		Total Col1Ave (5 peaks):			220.1		Total Col2Ave (5 peaks):			288.4 RPD = 27
		Corrected Ave (4 peaks):			206.9		Corrected Ave (4 peaks):			268.3 RPD = 26
					227.65					
Aroclor-1260	1	11.031	-0.018	47042	324.8	1	11.640	-0.016	61885	281.2
Aroclor-1260	2	11.346	-0.020	39209	259.1	2	11.902	-0.020	112048	199.5
Aroclor-1260	3	11.717	-0.023	114086	284.2	3	12.420	-0.020	48259	323.7
Aroclor-1260	4	12.119	-0.028	57127	282.6	4	12.486	-0.020	82142	216.9
Aroclor-1260	5	12.233	-0.014	28368	326.0	NS	---			----
		Total Col1Ave (5 peaks):			295.3		Total Col2Ave (4 peaks):			255.3 RPD = 15
		Corrected Ave (4 peaks):			287.7		Corrected Ave (3 peaks):			232.5 RPD = 21
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			

Total PCB Area Col1 (5.907 - 13.795) = 2636940 Col1 Total PCB = 0.5 ppm*

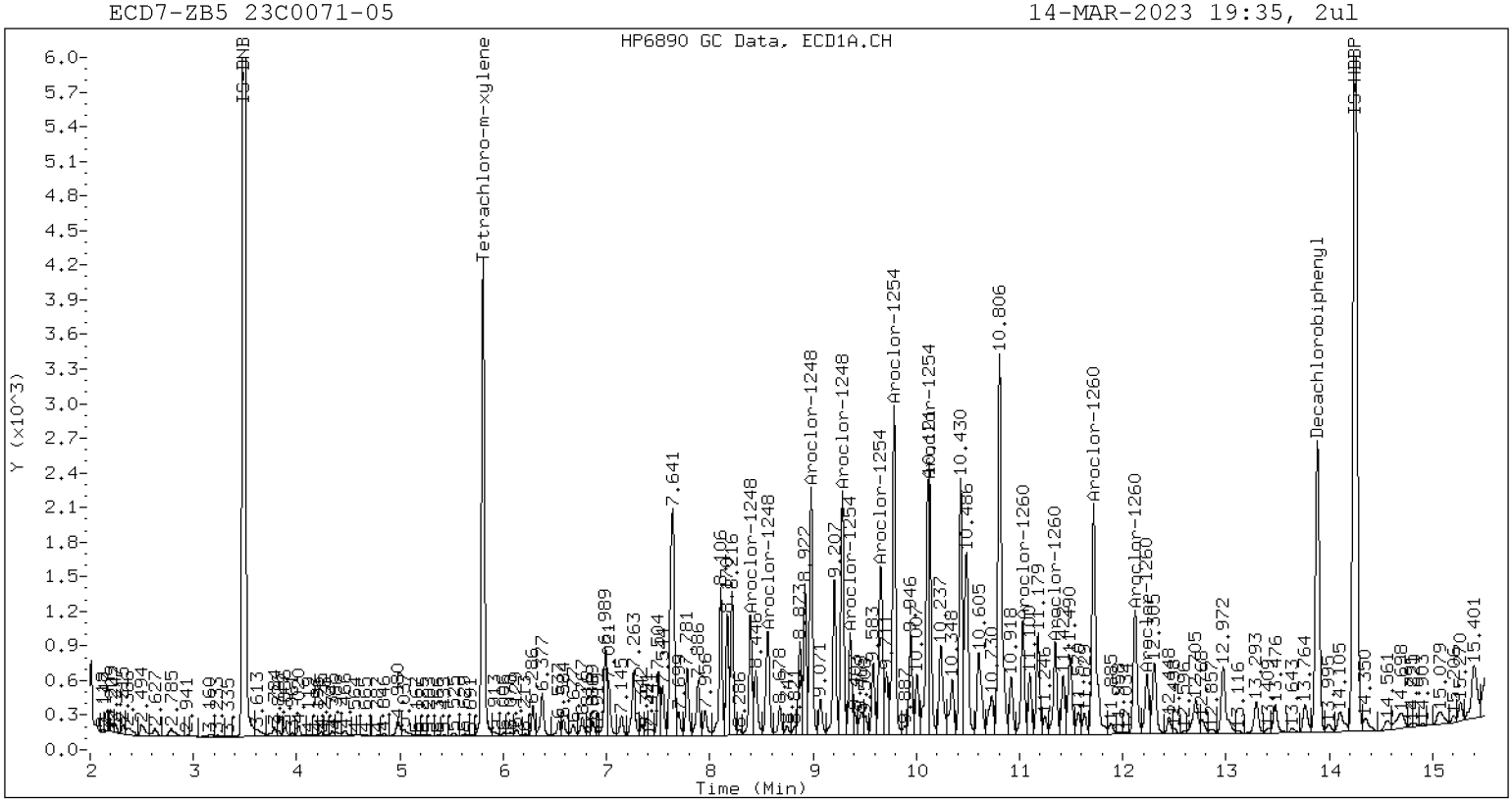
Total PCB Area Col2 (5.788 - 14.019) = 2440494 Col2 Total PCB = 0.6 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

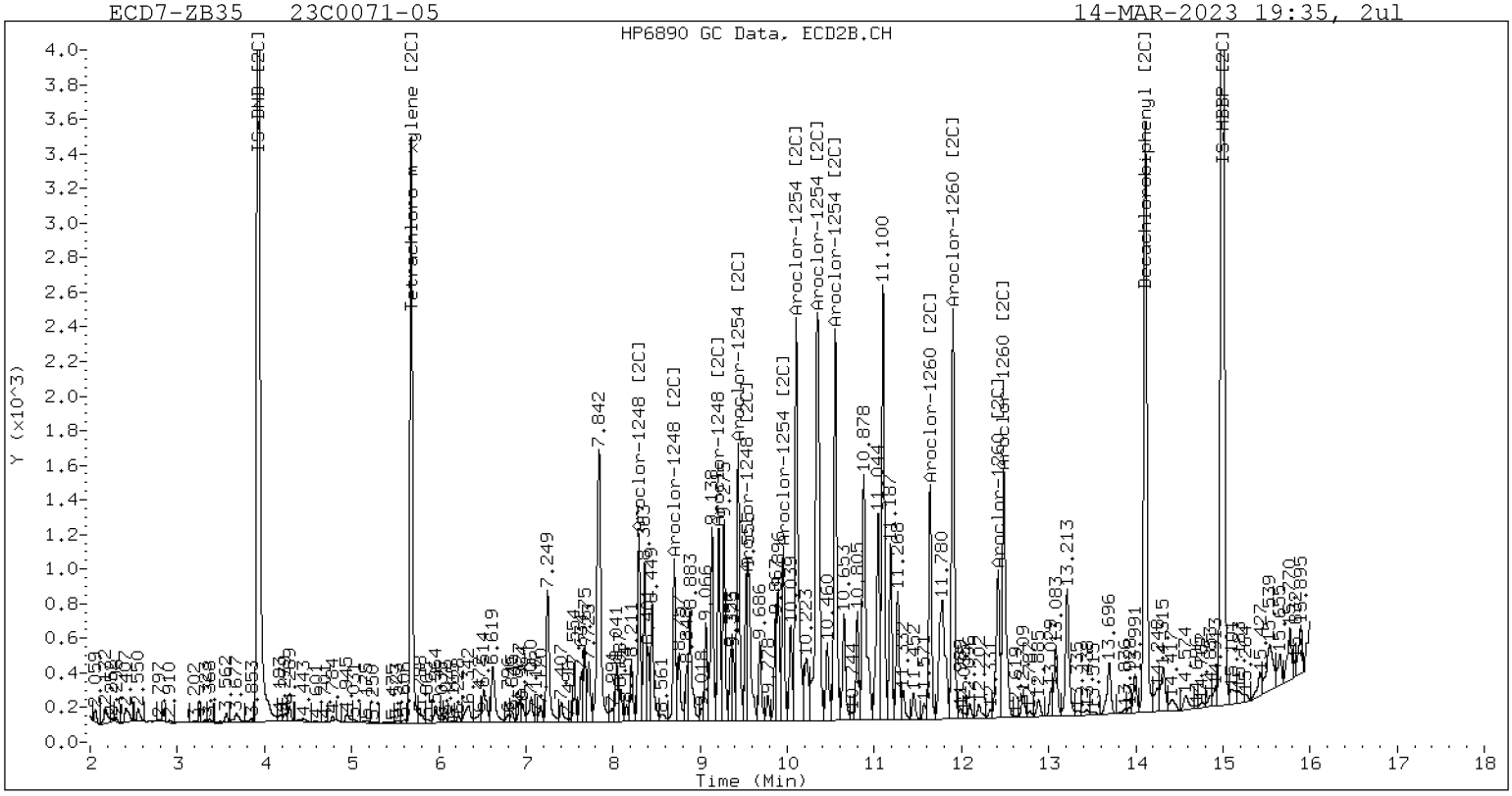
PCB Dual Column Chromatograms

ECD7-ZB5 23C0071-05 14-MAR-2023 19:35, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 23C0071-05 14-MAR-2023 19:35, 2ul

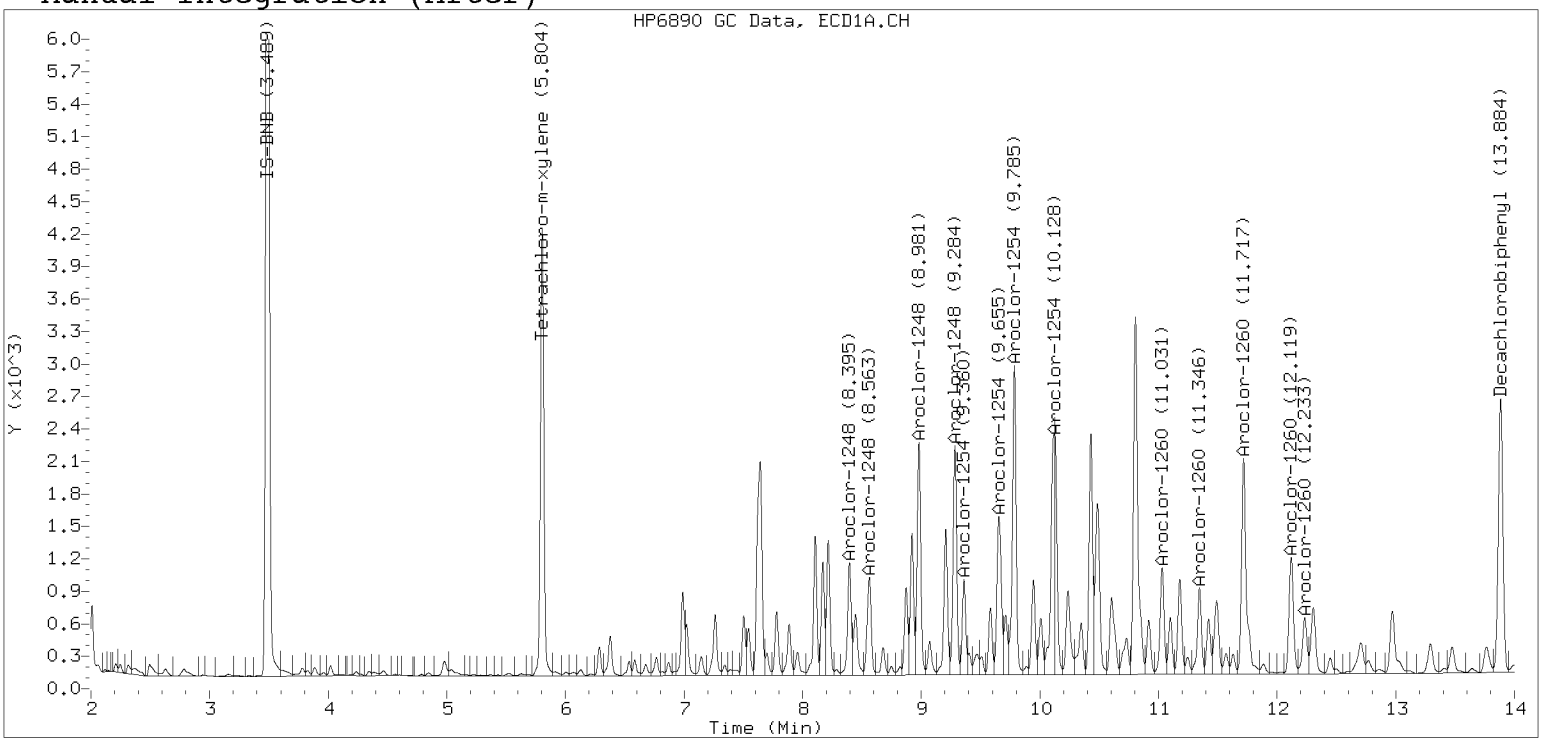


ZB-35 Manual Integration: YES

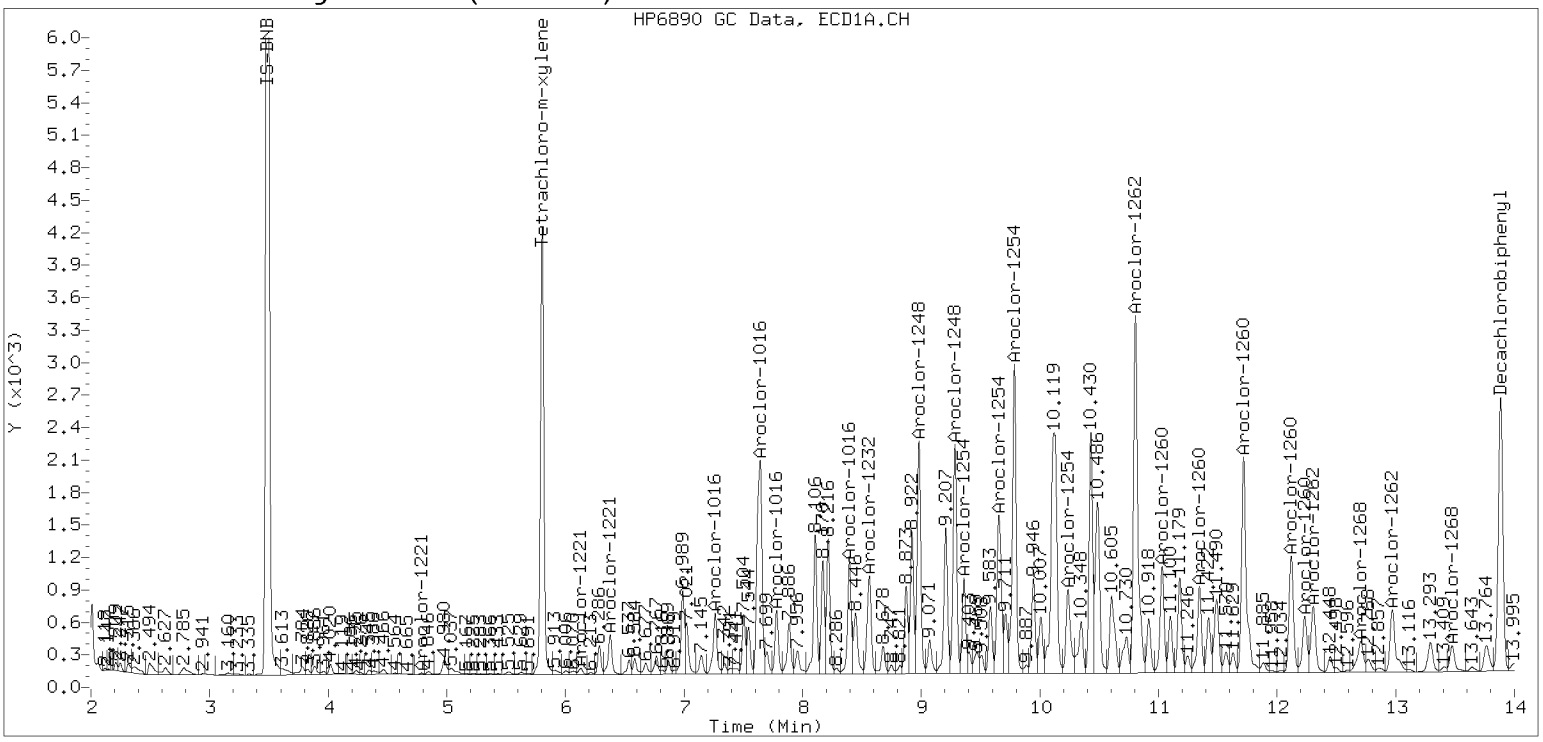
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230314.b/03142330ECD7.D Injection Date: 14-MAR-2023 19:35

Manual Integration (After)



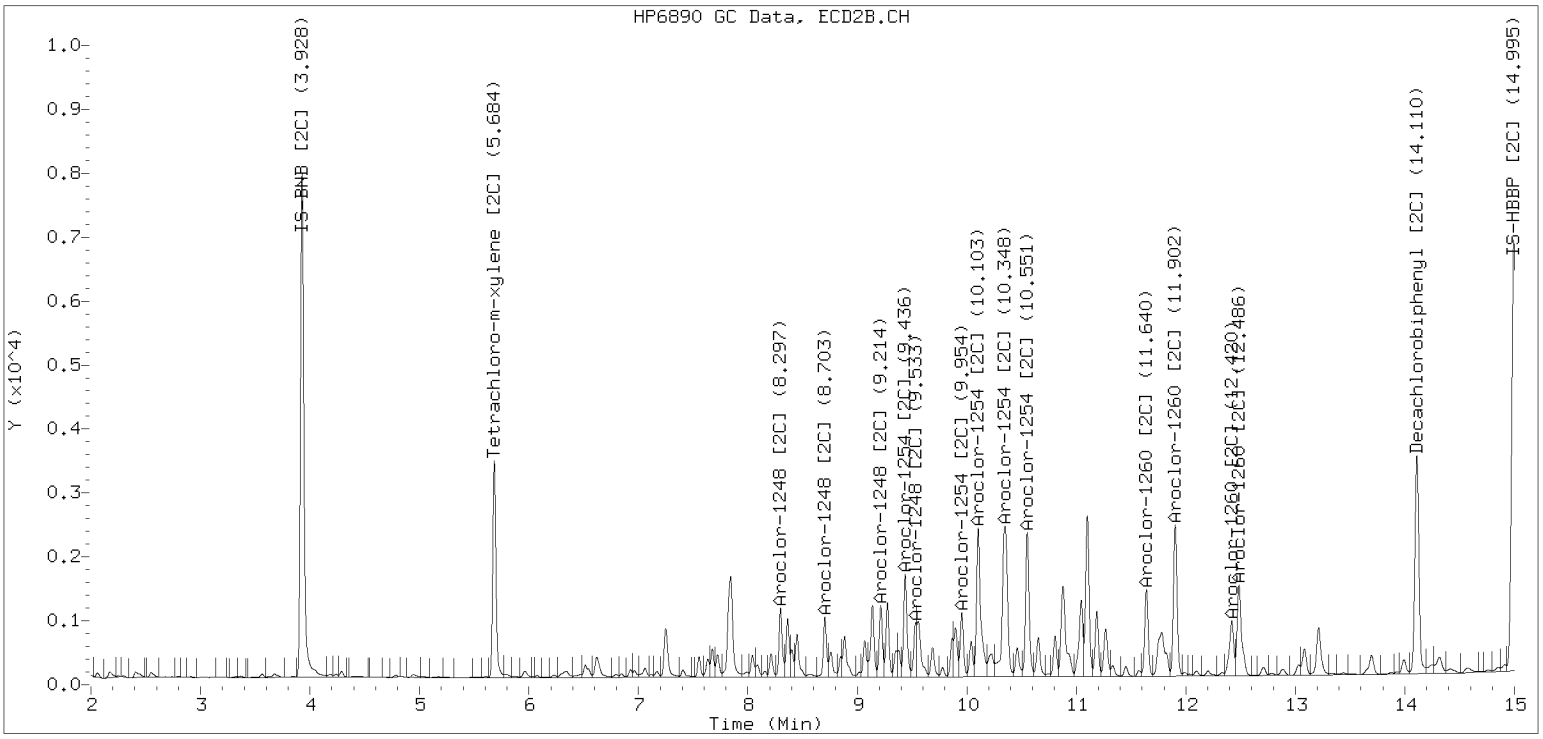
Processed Integration (Before)



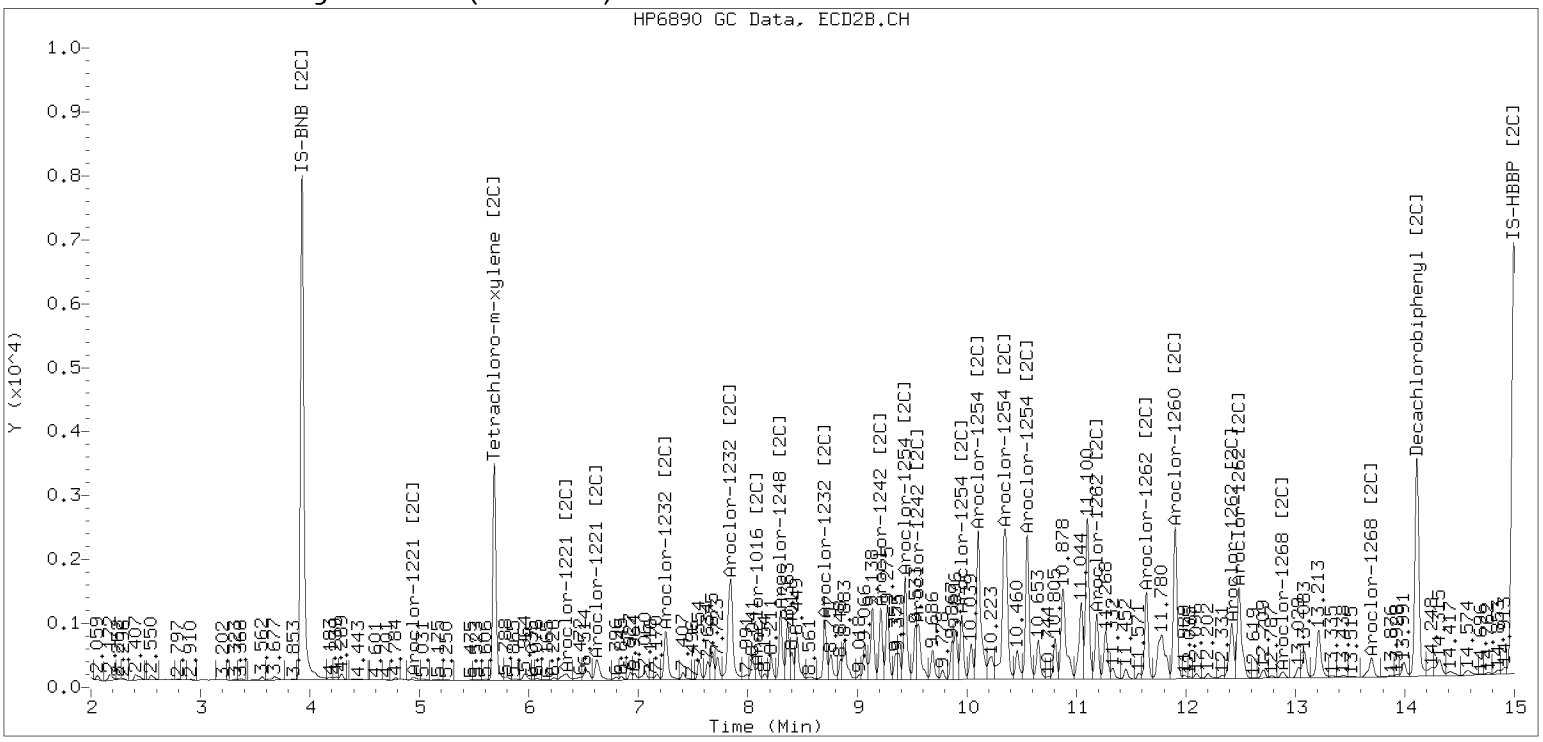
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230314.b/230314.b/03142330ECD7.D Injection Date: 14-MAR-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW23-SS1054

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	23C0071
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Solid	Laboratory ID:	23C0071-06 A	File ID:	03142331ECD7.D
Sampled:	03/02/23 10:41	Prepared:	03/07/23 13:30	Analyzed:	03/14/23 19:56
% Solids:	50.43	Preparation:	EPA 3546 (Microwave)	Initial/Final:	24.8 g Wet / 2.5 mL
Batch:	BLC0124	Sequence:	SLC0203	Calibration:	GB00069
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	2	1	111	1.6	4.0	
11097-69-1	Aroclor 1254	2	1	80.3	1.6	4.0	
11096-82-5	Aroclor 1260	2	1	65.2	0.6	4.0	

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9958*	*6.94*	*86.8*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9958*	*5.20*	*65.0*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9958*	*6.46*	*80.8*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9958*	*5.48*	*68.5*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230314.b/03142331ECD7.D
Data file 2: /230314.b/230314.b/03142331ECD7.D
Method: \\target\share\chem4\ecd7.i\230314.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 23C0071-06
Client ID:
Injection Date: 14-MAR-2023 19:56
Report Date: 03/15/2023 09:29
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.803	-0.004	166449	5.682	-0.007	140861	26.0	27.4	5.3	Tetrachloro-m-xylene
13.885	-0.010	136623	14.111	-0.008	183714	34.7	32.3	7.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	428863	-36.3
Hexabromobiphenyl	1429847	399444	-72.1 <-

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	350244	11.1
Hexabromobiphenyl	513946	373056	-27.4

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	8.395	-0.014	103066	492.6	1	8.298	-0.012	109226	653.2
Aroclor-1248	2	8.564	-0.021	110740	416.4	2	8.703	-0.014	95343	551.4
Aroclor-1248	3	8.980	-0.018	165329	329.5	3	9.138	-0.038	98022	492.6
Aroclor-1248	4	9.284	-0.011	131226	513.7	4	9.556	-0.048	125955	527.2
	Total Col1Ave (4 peaks):				438.0	Total Col2Ave (4 peaks):				556.1 RPD = 24
	Corrected Ave (3 peaks):				412.8	Corrected Ave (3 peaks):				523.8 RPD = 24
Aroclor-1254	1	9.284	-0.019	131226	304.7	1	9.436	-0.019	94938	356.6
Aroclor-1254	2	9.359	-0.023	49709	256.6	2	9.954	-0.021	60707	283.5
Aroclor-1254	3	9.654	-0.020	102918	371.7	3	10.103	-0.029	178765	385.8
Aroclor-1254	4	9.785	-0.029	179045	332.6	4	10.349	-0.030	223013	493.7
Aroclor-1254	5	10.117	-0.071	115874	343.4	5	10.552	-0.021	134413	488.7
	Total Col1Ave (5 peaks):				321.8	Total Col2Ave (5 peaks):				401.7 RPD = 22
	Corrected Ave (4 peaks):				309.3	Corrected Ave (4 peaks):				378.7 RPD = 20
					316.4					
Aroclor-1260	1	11.031	-0.018	63235	440.1	1	11.641	-0.015	81406	371.1
Aroclor-1260	2	11.344	-0.021	55270	368.1	2	11.902	-0.020	152088	271.7
Aroclor-1260	3	11.717	-0.024	147136	369.5	3	12.421	-0.019	56962	383.4
Aroclor-1260	4	12.118	-0.029	78718	392.6	4	12.485	-0.021	105418	279.4
Aroclor-1260	5	12.234	-0.013	36100	418.2	NS	---			----
	Total Col1Ave (5 peaks):				397.7	Total Col2Ave (4 peaks):				326.4 RPD = 20
	Corrected Ave (4 peaks):				387.1	Corrected Ave (3 peaks):				307.4 RPD = 23
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.907 - 13.795) = 4367823 Col1 Total PCB = 0.9 ppm*

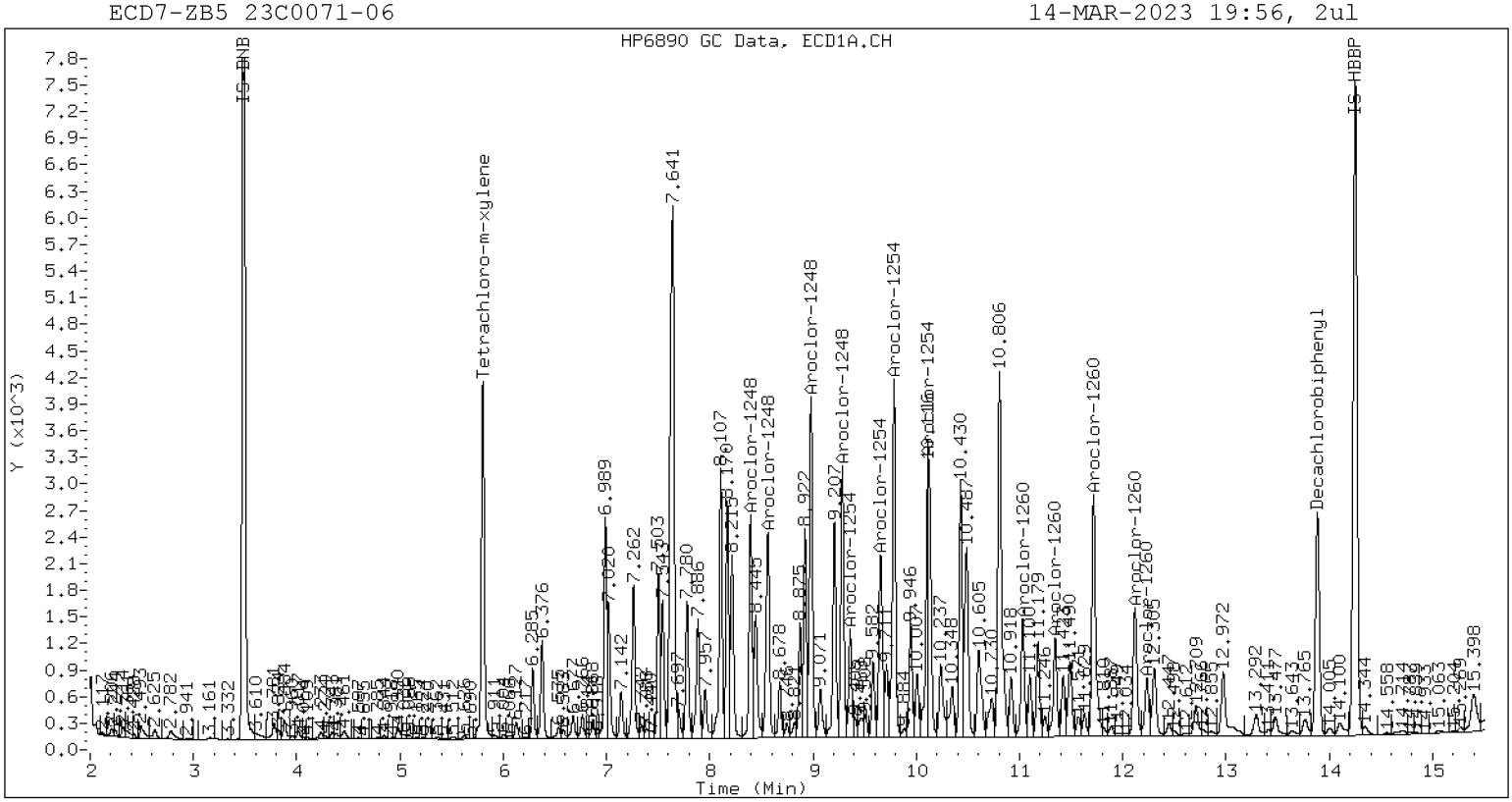
Total PCB Area Col2 (5.788 - 14.019) = 3965739 Col2 Total PCB = 0.9 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

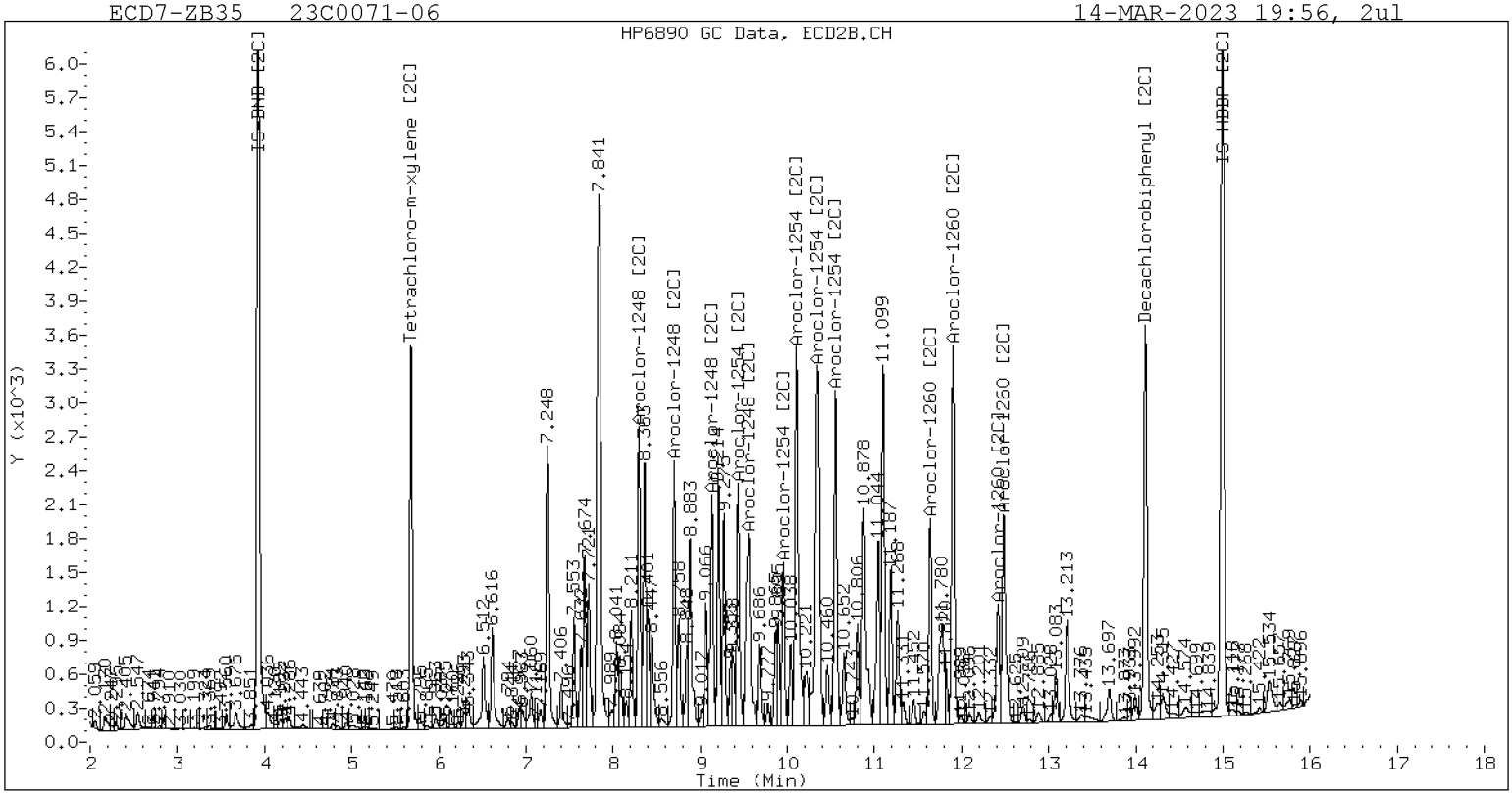
PCB Dual Column Chromatograms

ECD7-ZB5 23C0071-06 14-MAR-2023 19:56, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 23C0071-06 14-MAR-2023 19:56, 2ul

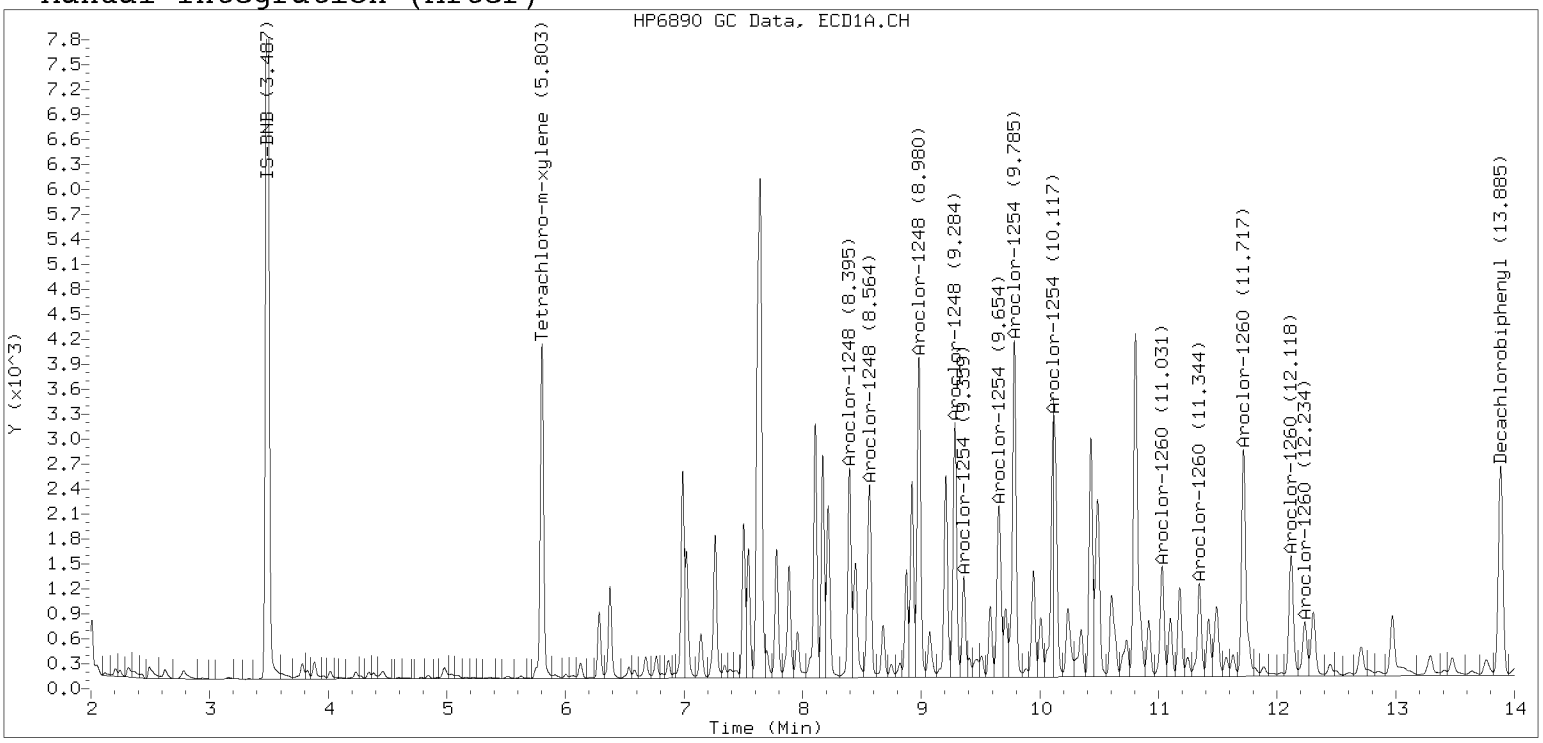


ZB-35 Manual Integration: YES

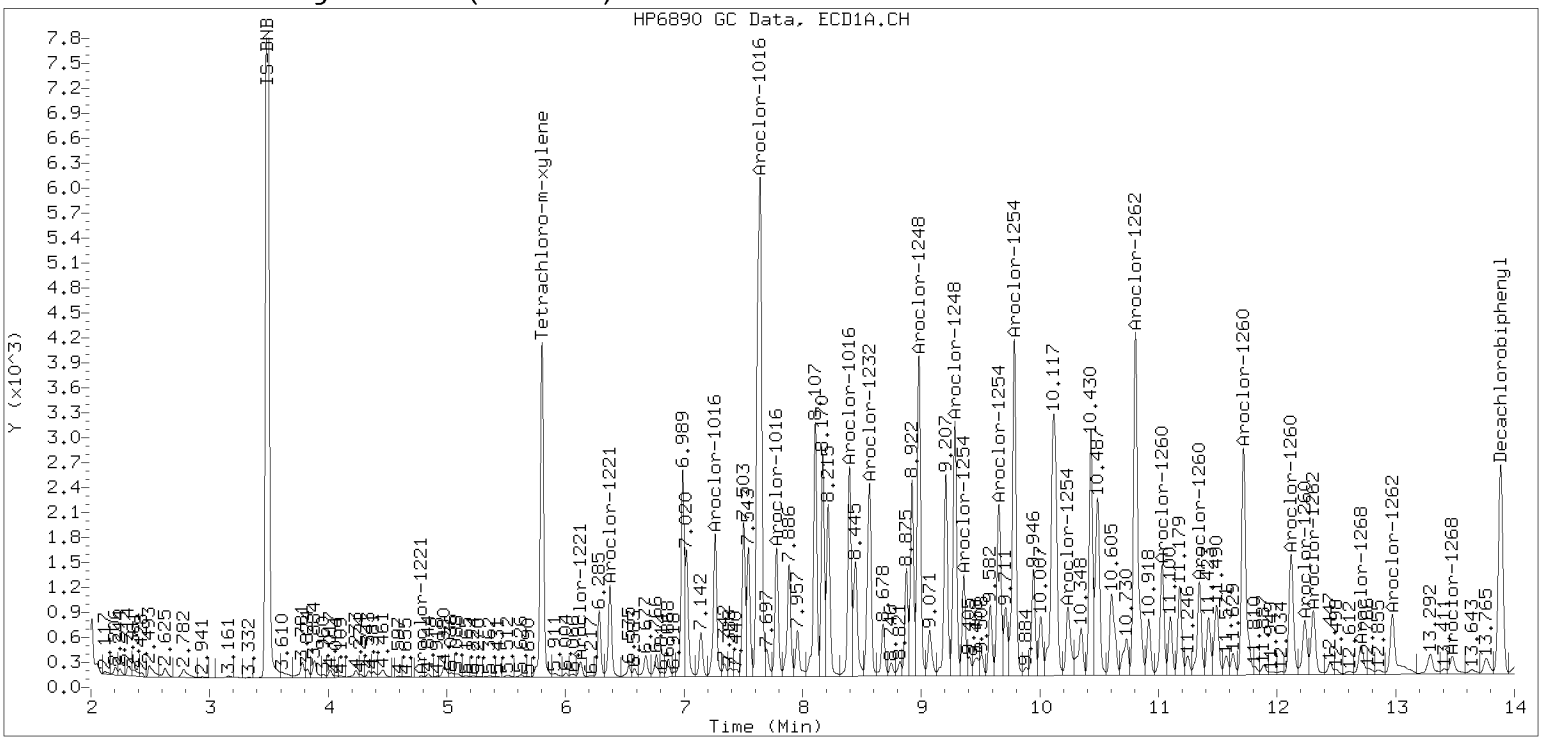
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230314.b/03142331ECD7.D Injection Date: 14-MAR-2023 19:56

Manual Integration (After)



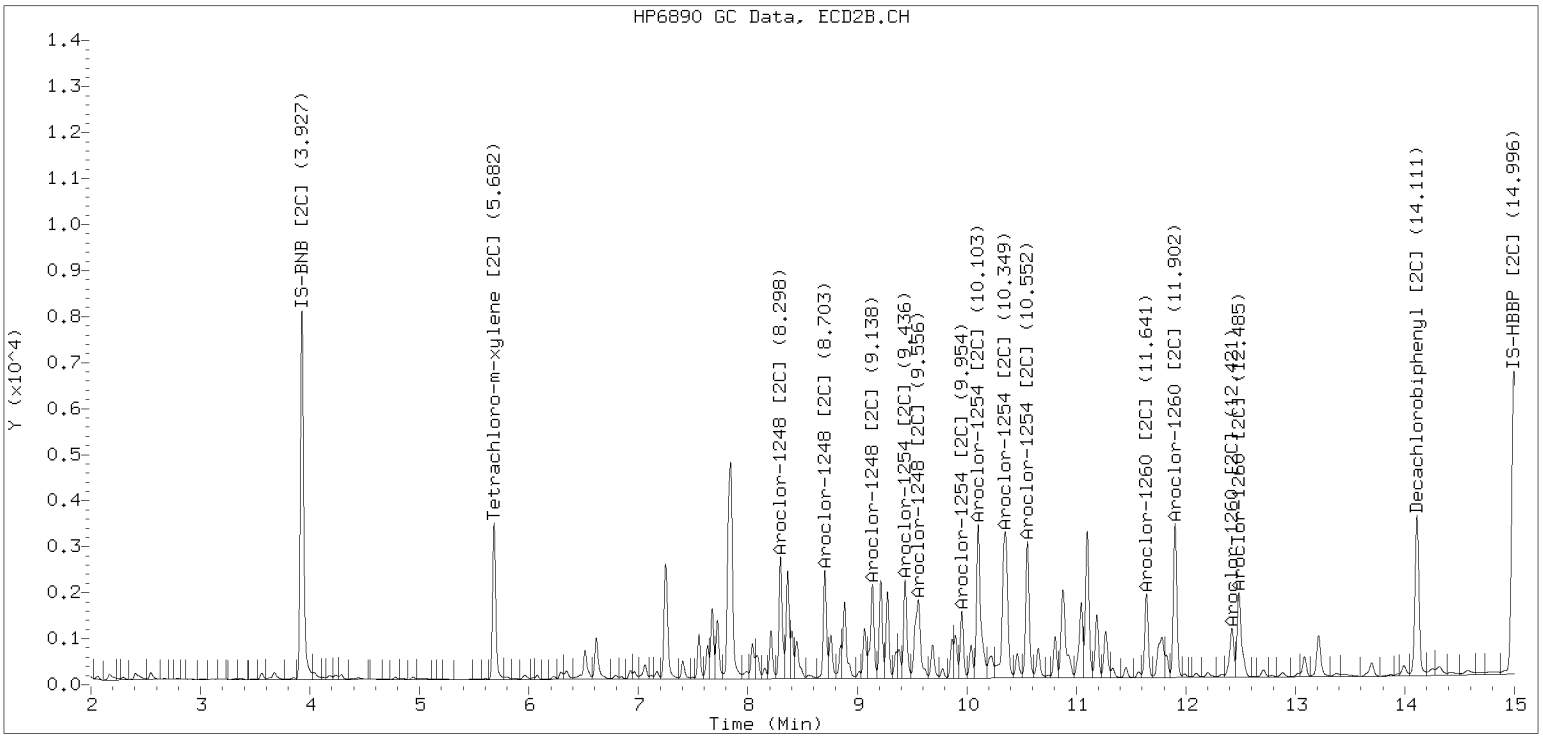
Processed Integration (Before)



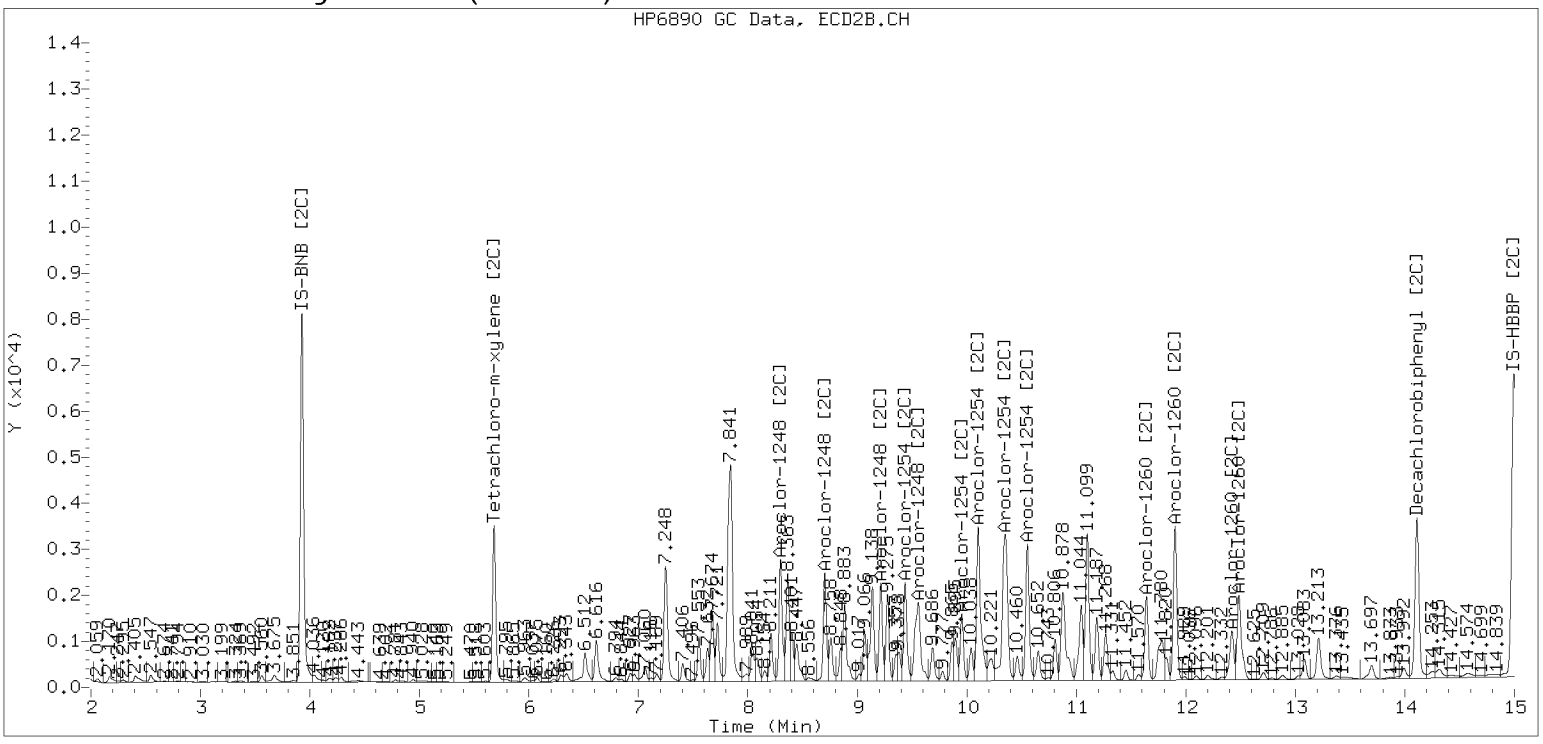
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230314.b/230314.b/03142331ECD7.D Injection Date: 14-MAR-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW23-SC1054

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	23C0071
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Solid	Laboratory ID:	23C0071-08 A	File ID:	03142334ECD7.D
Sampled:	03/02/23 11:56	Prepared:	03/07/23 13:30	Analyzed:	03/14/23 20:59
% Solids:	55.48	Preparation:	EPA 3546 (Microwave)	Initial/Final:	22.61 g Wet / 2.5 mL
Batch:	BLC0124	Sequence:	SLC0203	Calibration:	GB00069
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	2	1	131	1.6	4.0	
11097-69-1	Aroclor 1254	2	1	74.6	1.6	4.0	
11096-82-5	Aroclor 1260	2	1	60.9	0.6	4.0	

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9719*	*6.89*	*86.5*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9719*	*5.06*	*63.5*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9719*	*6.35*	*79.7*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9719*	*5.41*	*67.9*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230314.b/03142334ECD7.D
Data file 2: /230314.b/230314.b/03142334ECD7.D
Method: \\target\share\chem4\ecd7.i\230314.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 23C0071-08
Client ID:
Injection Date: 14-MAR-2023 20:59
Report Date: 03/15/2023 09:29
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.802	-0.004	168380	5.682	-0.007	137977	25.4	27.2	6.8	Tetrachloro-m-xylene
13.884	-0.011	140602	14.110	-0.009	184657	34.6	31.9	8.2	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	444145	-34.1
Hexabromobiphenyl	1429847	412748	-71.1 <-

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	346150	9.8
Hexabromobiphenyl	513946	380434	-26.0

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	8.395	-0.014	104622	482.8	1	8.298	-0.012	166953	1010.2
Aroclor-1248	2	8.563	-0.022	147644	536.0	2	8.703	-0.015	98884	578.7
Aroclor-1248	3	8.982	-0.017	176764	340.2	3	9.137	-0.038	74544	379.1
Aroclor-1248	4	9.283	-0.011	131297	496.3	4	9.533	-0.071	39675	160.0
	Total Col1Ave (4 peaks):				463.8	Total Col2Ave (4 peaks):				534.0 RPD = 14
	Corrected Ave (3 peaks):				439.7	Corrected Ave (3 peaks):				375.3 RPD = 16
Aroclor-1254	1	9.283	-0.019	131297	294.4	1	9.436	-0.019	85996	326.9
Aroclor-1254	2	9.360	-0.022	50740	253.0	2	9.954	-0.021	47629	225.0
Aroclor-1254	3	9.657	-0.017	91248	318.2	3	10.103	-0.029	192171	419.6
Aroclor-1254	4	9.786	-0.028	200567	359.7	4	10.353	-0.027	191302	428.5
Aroclor-1254	5	10.113	-0.075	204356	584.8	5	10.552	-0.021	128083	471.2
	Total Col1Ave (5 peaks):				362.0	Total Col2Ave (5 peaks):				374.3 RPD = 3
	Corrected Ave (4 peaks):				306.3	Corrected Ave (4 peaks):				350.0 RPD = 13
Aroclor-1260	1	11.032	-0.017	65859	443.6	1	11.641	-0.015	74794	334.4
Aroclor-1260	2	11.346	-0.019	51431	331.5	2	11.903	-0.020	141028	247.0
Aroclor-1260	3	11.717	-0.024	137793	334.9	3	12.420	-0.020	56922	375.7
Aroclor-1260	4	12.118	-0.029	70994	342.6	4	12.485	-0.021	101867	264.7
Aroclor-1260	5	12.233	-0.014	37659	422.2	NS	---			----
	Total Col1Ave (5 peaks):				375.0	Total Col2Ave (4 peaks):				305.5 RPD = 20
	Corrected Ave (4 peaks):				357.8	Corrected Ave (3 peaks):				282.0 RPD = 24
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

656

Total PCB Area Col1 (5.907 - 13.795) = 4797180 Col1 Total PCB = 0.9 ppm*

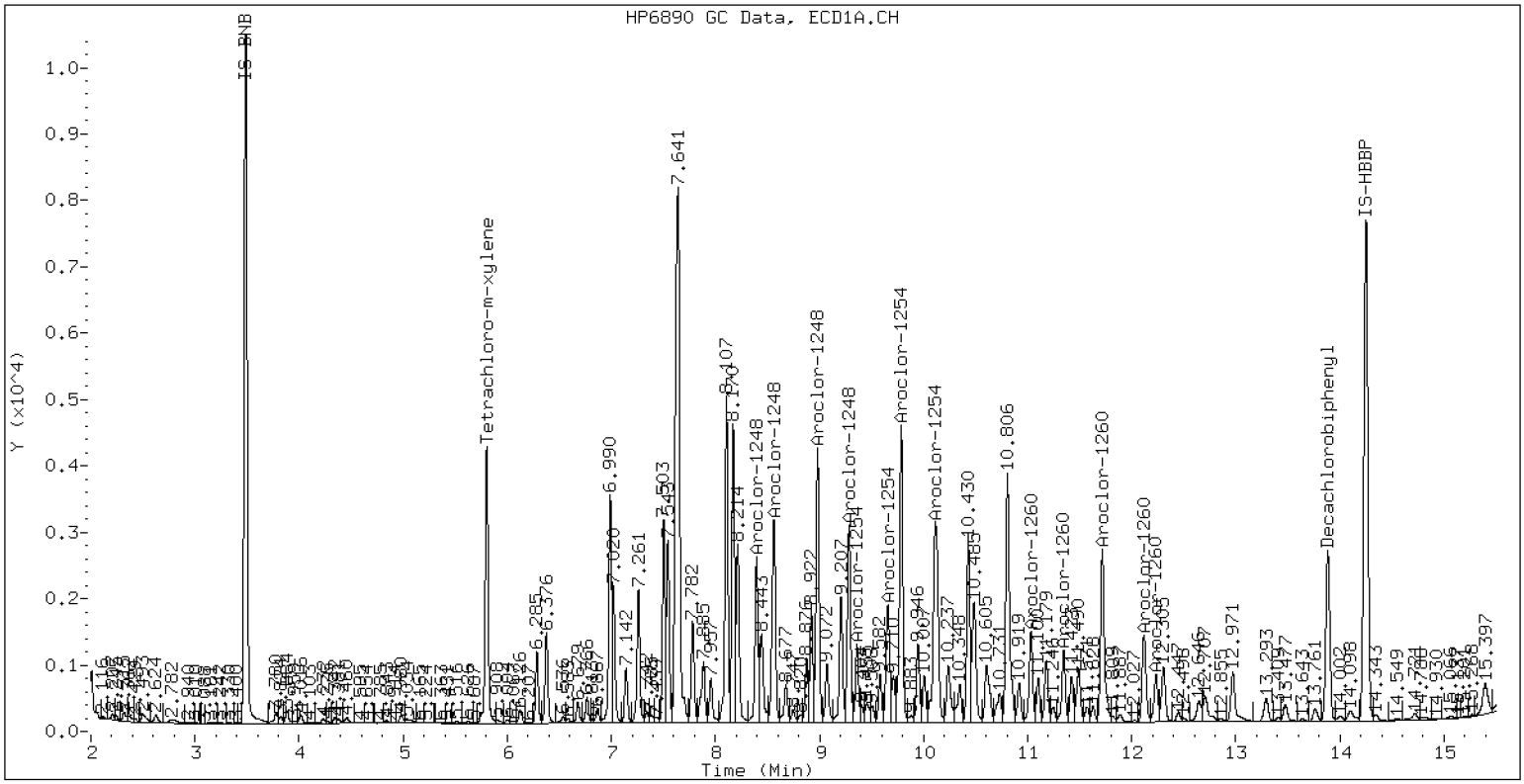
Total PCB Area Col2 (5.788 - 14.019) = 4244025 Col2 Total PCB = 1.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

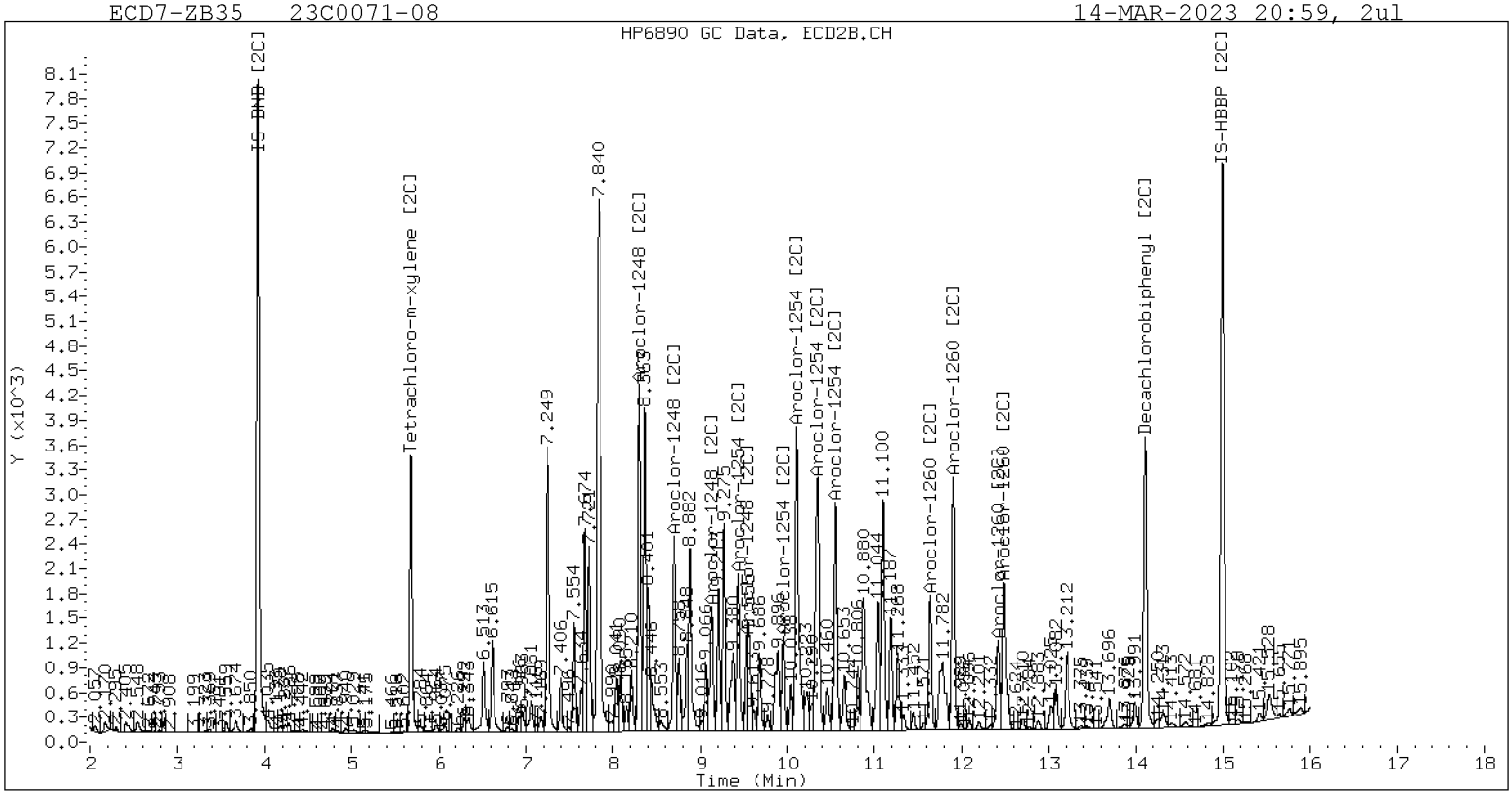
PCB Dual Column Chromatograms

ECD7-ZB5 23C0071-08 14-MAR-2023 20:59, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 23C0071-08 14-MAR-2023 20:59, 2ul

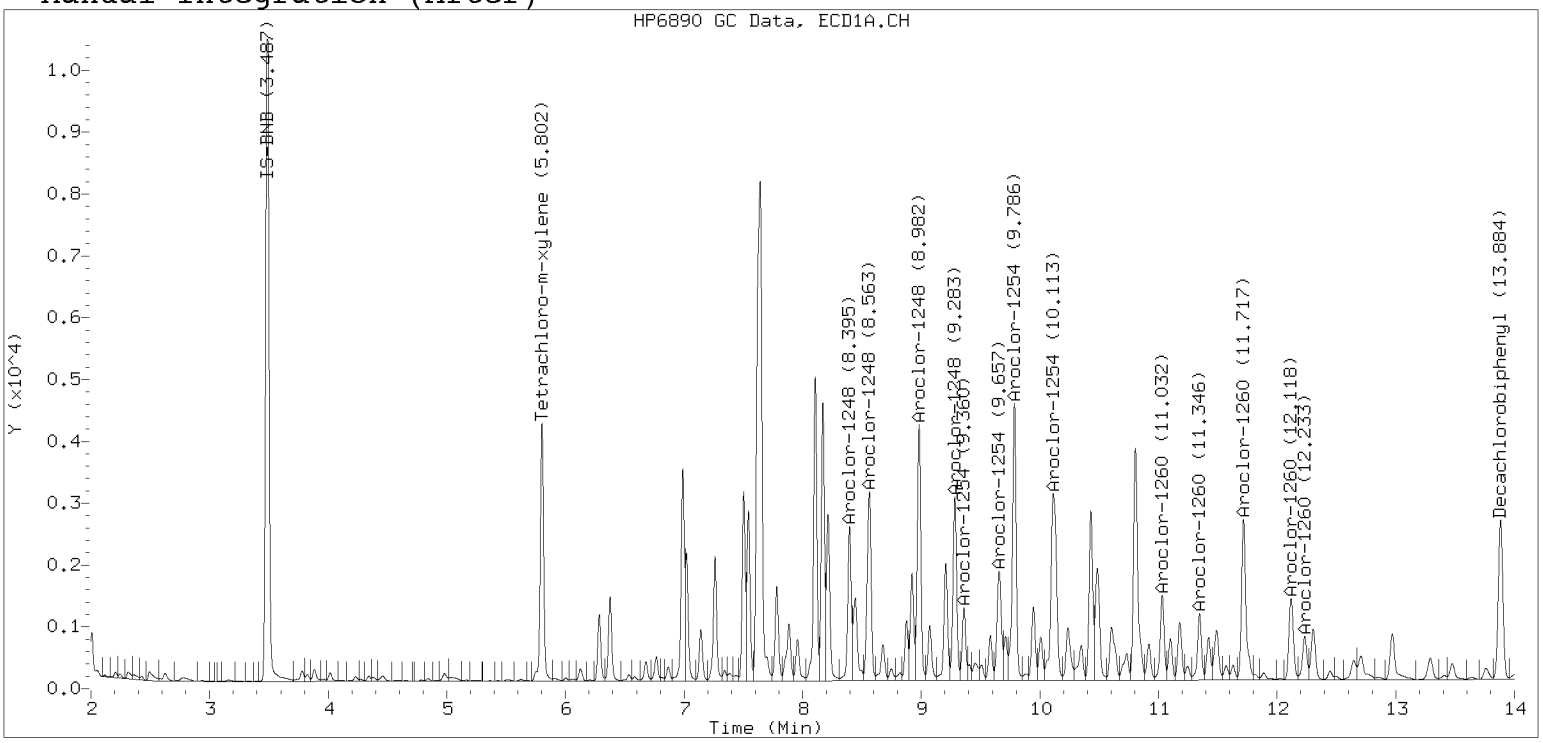


ZB-35 Manual Integration: YES

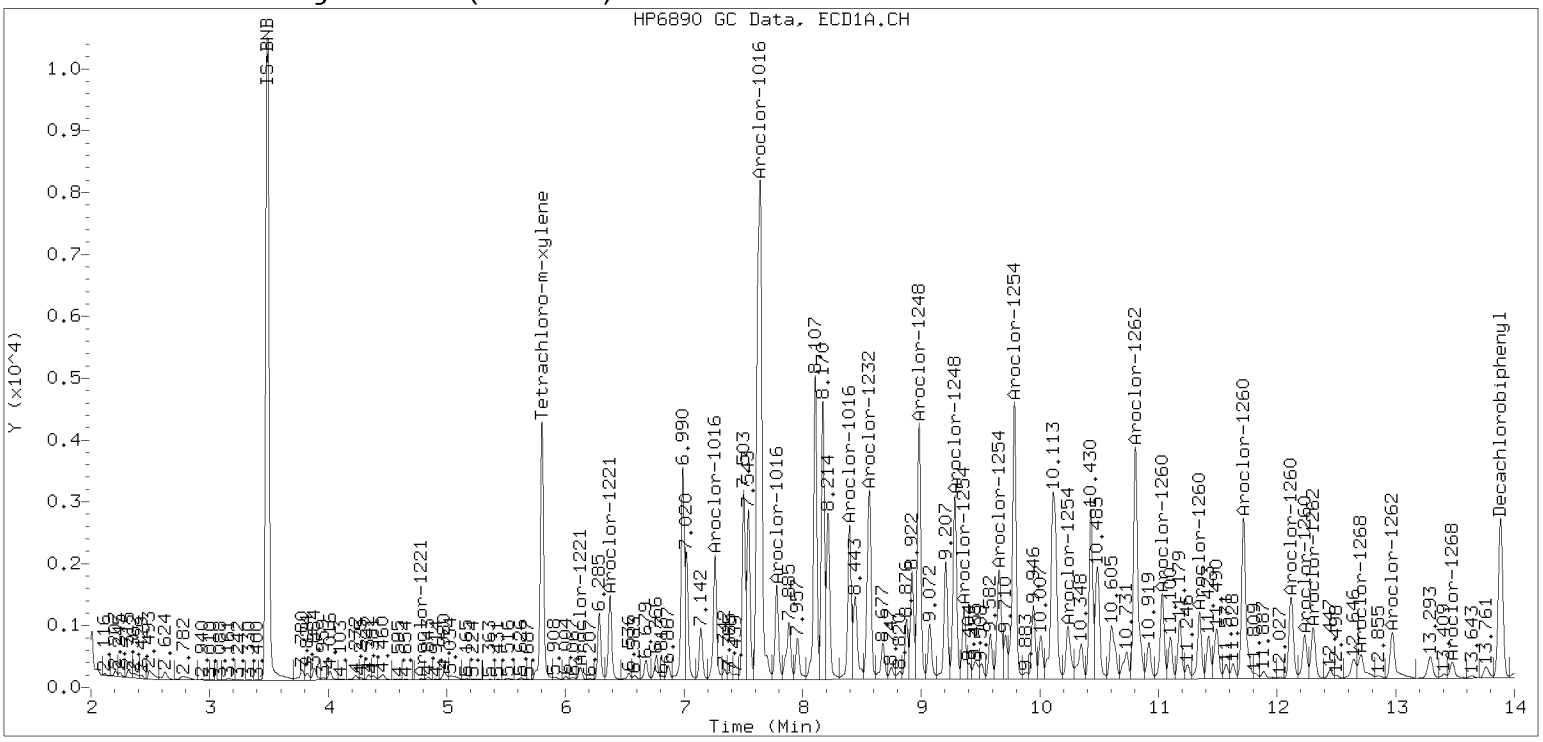
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230314.b/03142334ECD7.D Injection Date: 14-MAR-2023 20:59

Manual Integration (After)



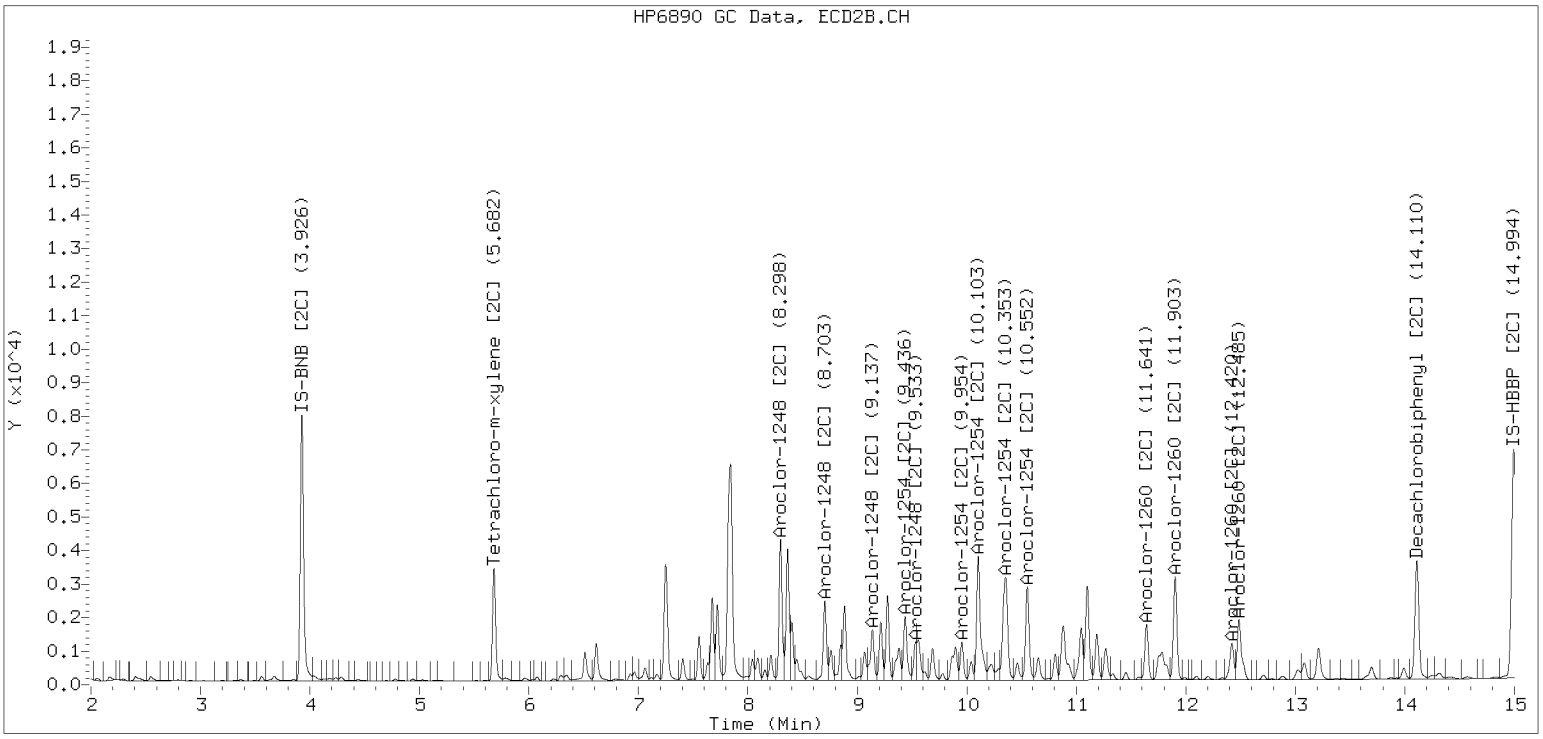
Processed Integration (Before)



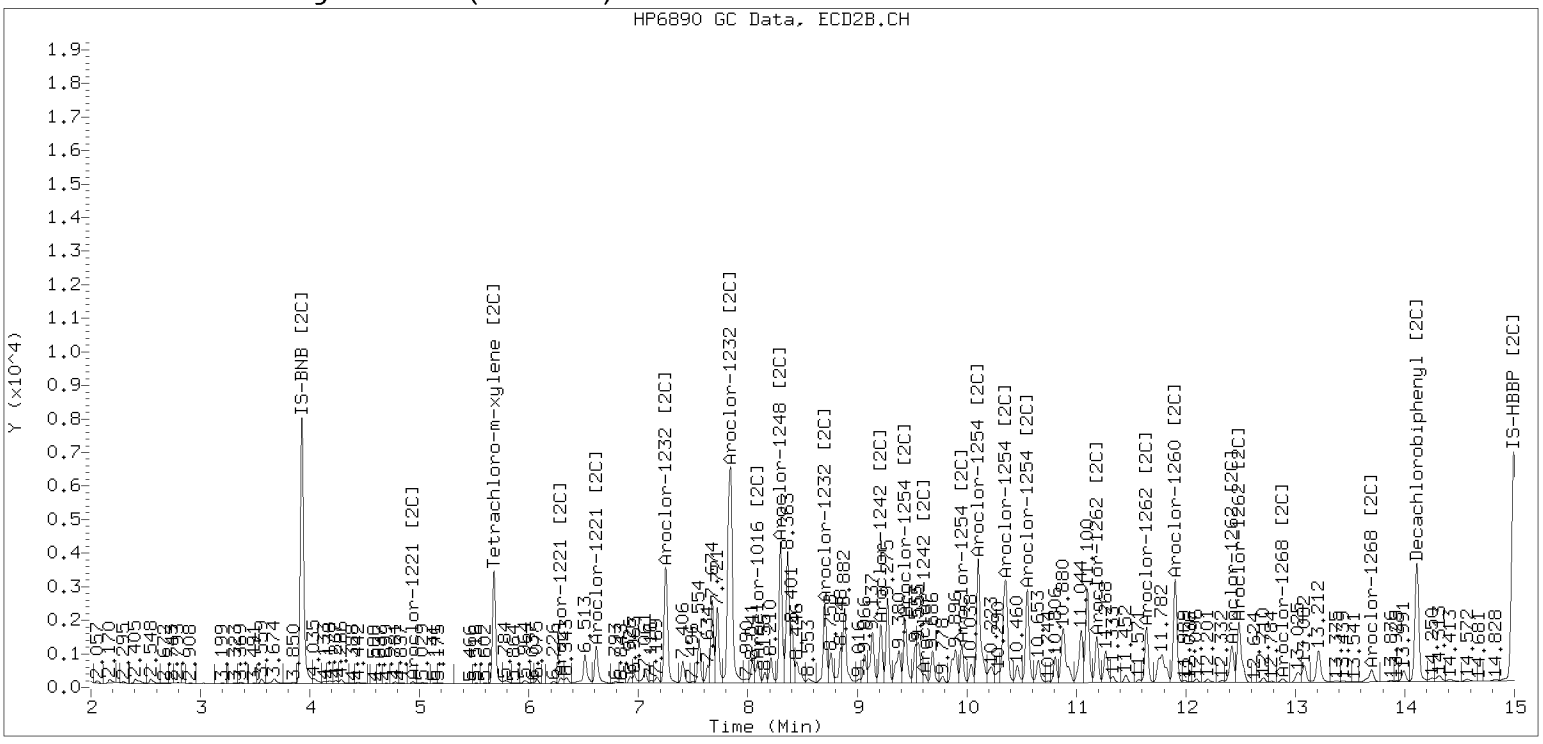
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230314.b/230314.b/03142334ECD7.D Injection Date: 14-MAR-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW23-SC1048

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	23C0071
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Solid	Laboratory ID:	23C0071-09 A	File ID:	03142335ECD7.D
Sampled:	03/02/23 12:27	Prepared:	03/07/23 13:30	Analyzed:	03/14/23 21:19
% Solids:	51.39	Preparation:	EPA 3546 (Microwave)	Initial/Final:	24.4 g Wet / 2.5 mL
Batch:	BLC0124	Sequence:	SLC0203	Calibration:	GB00069
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	1	1	38.9	1.6	4.0	
11097-69-1	Aroclor 1254	2	1	56.5	1.6	4.0	
11096-82-5	Aroclor 1260	2	1	55.1	0.6	4.0	

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9750*	*6.92*	*86.8*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9750*	*5.01*	*62.8*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9750*	*6.42*	*80.5*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9750*	*5.30*	*66.5*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230314.b/03142335ECD7.D
Data file 2: /230314.b/230314.b/03142335ECD7.D
Method: \\target\share\chem4\ecd7.i\230314.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 23C0071-09
Client ID:
Injection Date: 14-MAR-2023 21:19
Report Date: 03/15/2023 09:29
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.803	-0.004	164867	5.682	-0.006	139788	25.1	26.6	5.7	Tetrachloro-m-xylene
13.885	-0.010	135406	14.112	-0.007	178447	34.7	32.2	7.6	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	439668	-34.7
Hexabromobiphenyl	1429847	396001	-72.3 <-

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	358192	13.6
Hexabromobiphenyl	513946	364125	-29.2

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	ZB5 Col RT	Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1248	1	8.395	-0.014	34574	161.2	1	8.298	-0.013	32246	188.5
Aroclor-1248	2	8.564	-0.021	30586	112.2	2	8.704	-0.014	28821	163.0
Aroclor-1248	3	8.982	-0.017	86344	167.8	3	9.138	-0.038	41746	205.1
Aroclor-1248	4	9.285	-0.010	88986	339.8	4	9.531	-0.073	34511	141.3
		Total Col1Ave (4 peaks):			195.2		Total Col2Ave (4 peaks):			174.5 RPD = 11
		Corrected Ave (3 peaks):			147.1		Corrected Ave (3 peaks):			164.3 RPD = 11
										185.53
Aroclor-1254	1	9.285	-0.018	88986	201.6	1	9.436	-0.019	67254	247.0
Aroclor-1254	2	9.360	-0.022	35674	179.7	2	9.955	-0.021	39793	181.7
Aroclor-1254	3	9.657	-0.017	72719	256.2	3	10.103	-0.028	122718	259.0
Aroclor-1254	4	9.786	-0.028	124207	225.0	4	10.350	-0.029	161696	350.0
Aroclor-1254	5	10.123	-0.066	75463	218.2	5	10.552	-0.022	106854	379.9
		Total Col1Ave (5 peaks):			216.1		Total Col2Ave (5 peaks):			283.5 RPD = 27
		Corrected Ave (4 peaks):			206.1		Corrected Ave (4 peaks):			259.4 RPD = 23
										215.625
Aroclor-1260	1	11.032	-0.017	49462	347.2	1	11.641	-0.014	64156	299.6
Aroclor-1260	2	11.346	-0.019	40445	271.7	2	11.903	-0.020	119614	218.9
Aroclor-1260	3	11.718	-0.023	119169	301.9	3	12.421	-0.019	50206	346.2
Aroclor-1260	4	12.119	-0.028	60429	304.0	4	12.486	-0.020	88859	241.3
Aroclor-1260	5	12.234	-0.013	31437	367.4	NS	---			----
		Total Col1Ave (5 peaks):			318.4		Total Col2Ave (4 peaks):			276.5 RPD = 14
		Corrected Ave (4 peaks):			306.2		Corrected Ave (3 peaks):			253.3 RPD = 19
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			

Total PCB Area Col1 (5.907 - 13.795) = 2380732 Col1 Total PCB = 0.5 ppm*

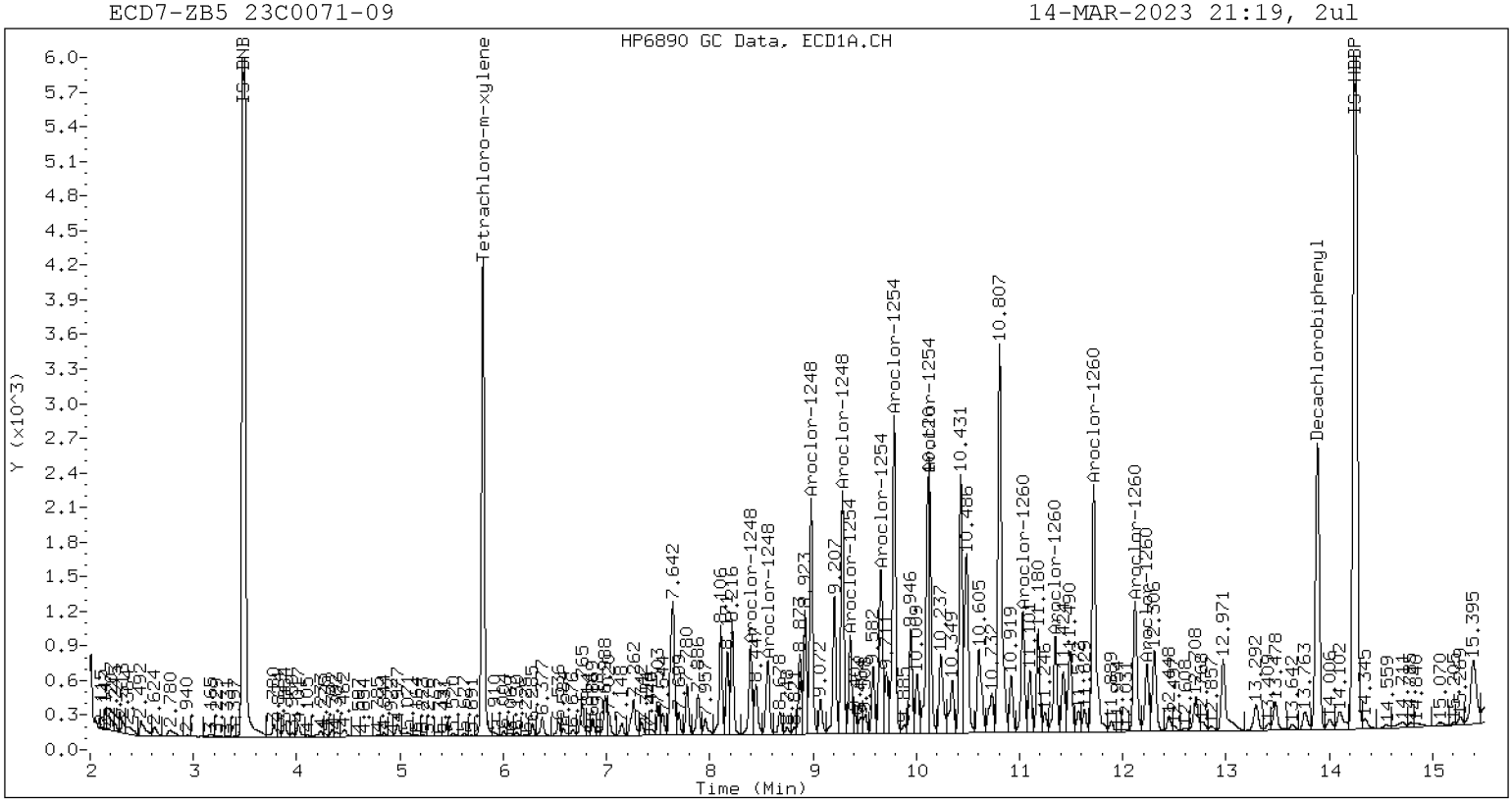
Total PCB Area Col2 (5.788 - 14.019) = 2226715 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

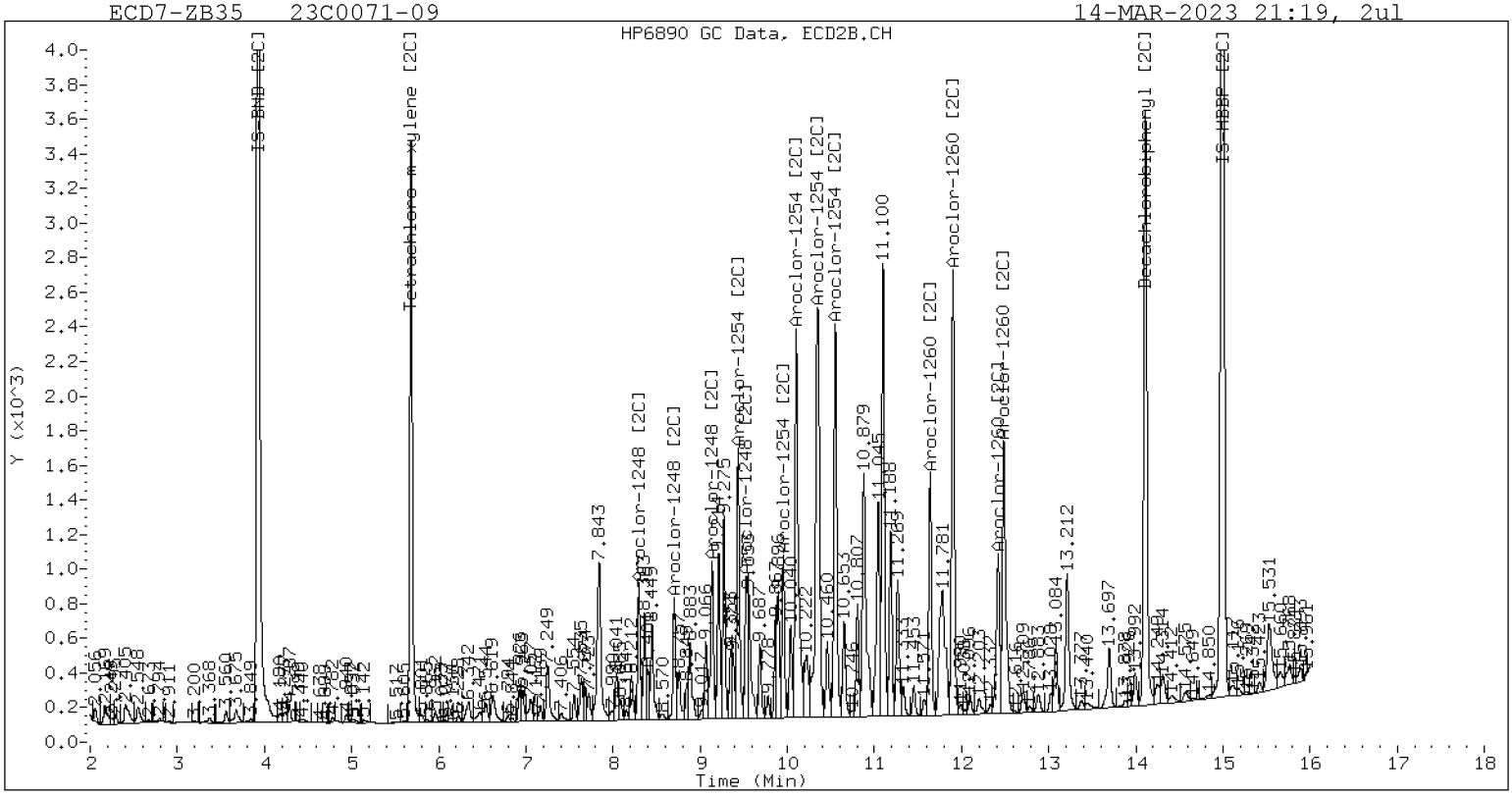
PCB Dual Column Chromatograms

ECD7-ZB5 23C0071-09 14-MAR-2023 21:19, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 23C0071-09 14-MAR-2023 21:19, 2ul

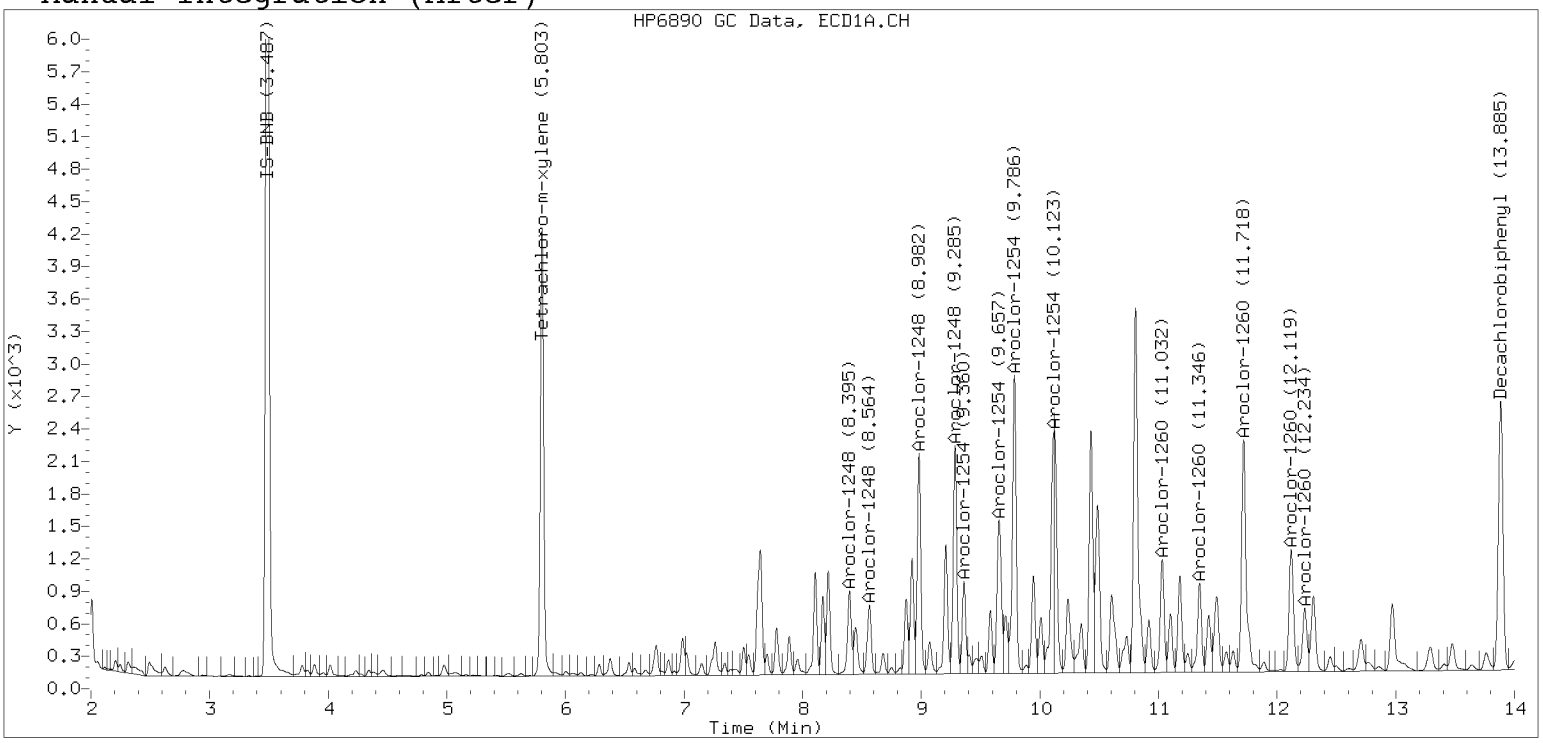


ZB-35 Manual Integration: YES

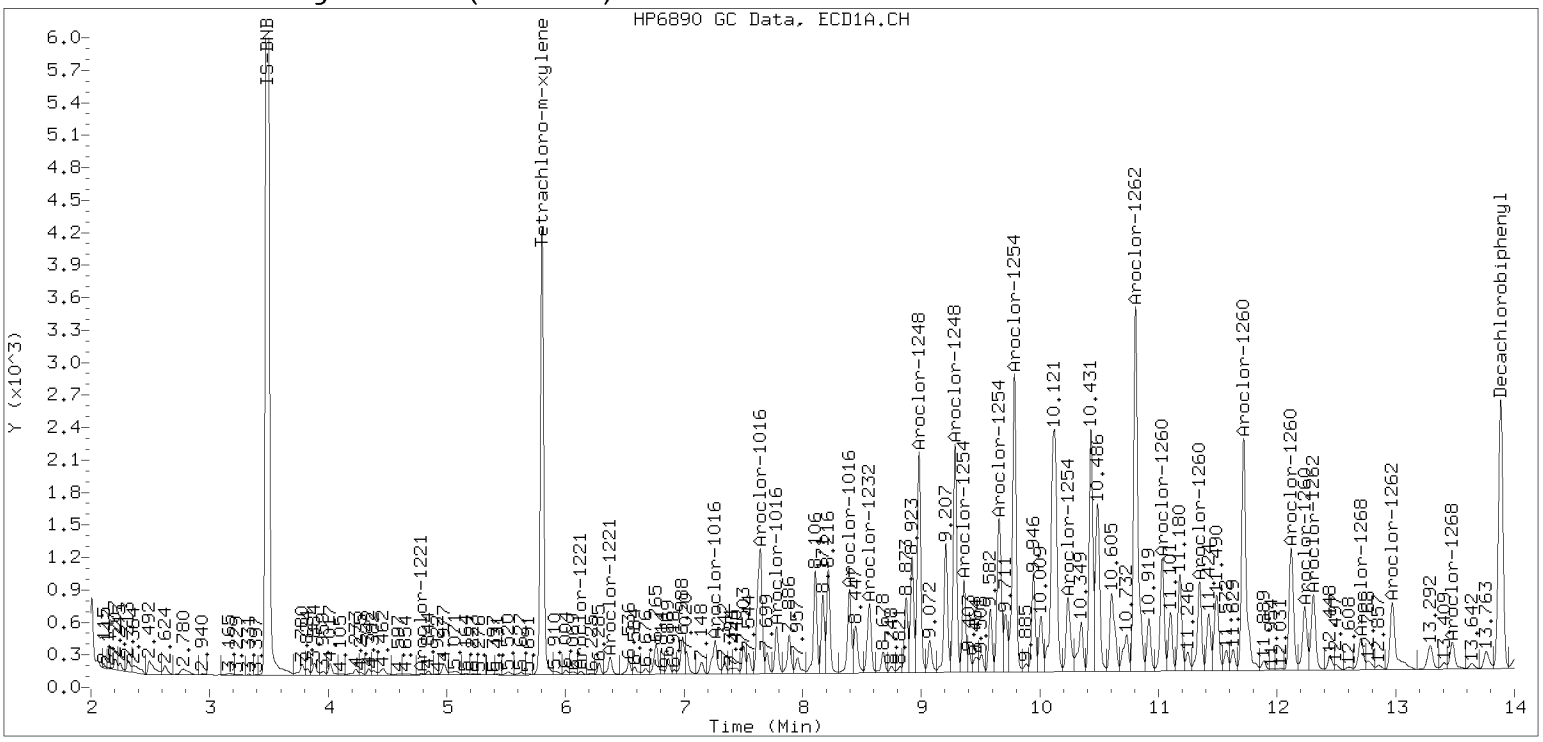
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230314.b/03142335ECD7.D Injection Date: 14-MAR-2023 21:19

Manual Integration (After)



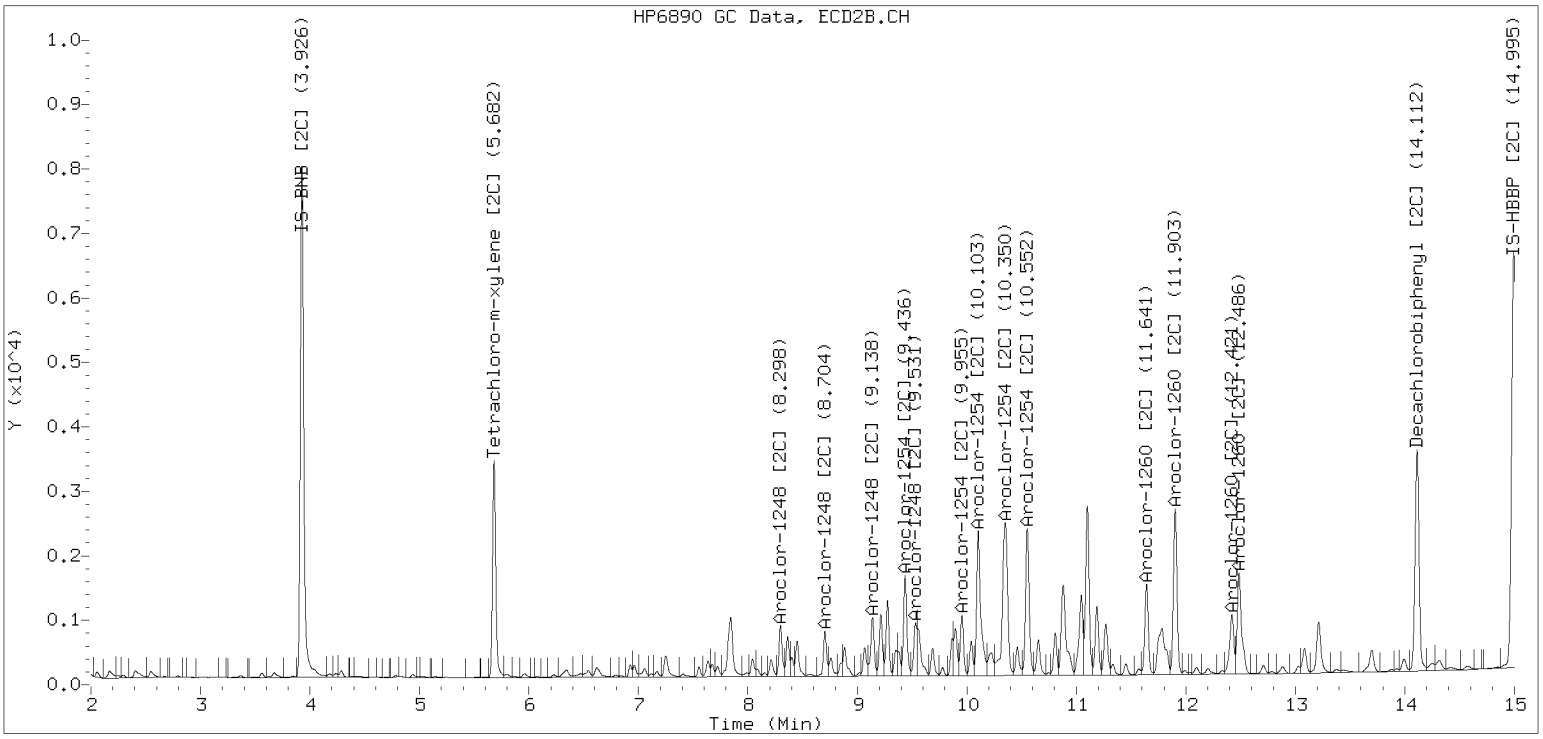
Processed Integration (Before)



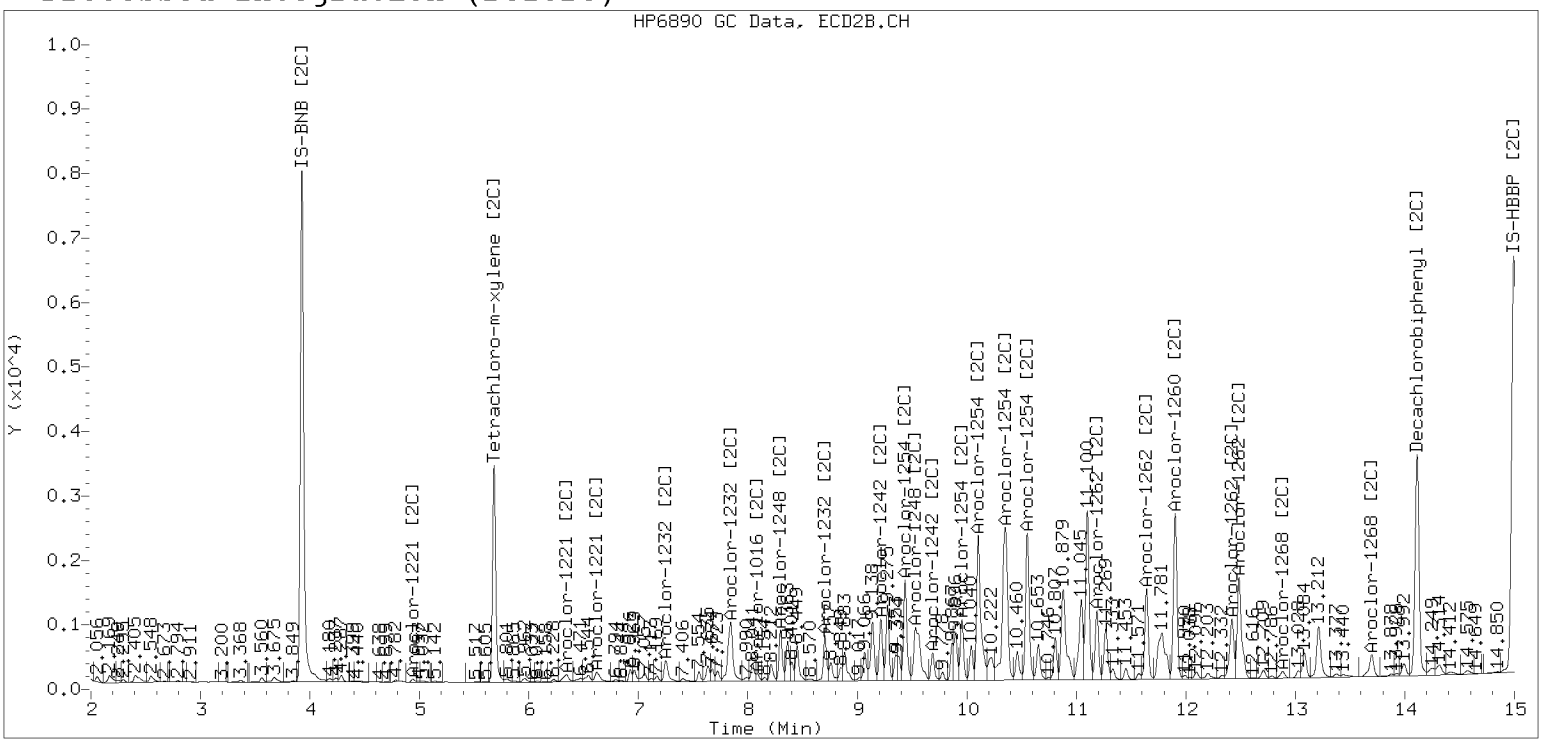
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230314.b/230314.b/03142335ECD7.D Injection Date: 14-MAR-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW23-SC1036

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	23C0071
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Solid	Laboratory ID:	23C0071-10 A	File ID:	03142336ECD7.D
Sampled:	03/02/23 14:09	Prepared:	03/07/23 13:30	Analyzed:	03/14/23 21:40
% Solids:	58.65	Preparation:	EPA 3546 (Microwave)	Initial/Final:	21.32 g Wet / 2.5 mL
Batch:	BLC0124	Sequence:	SLC0203	Calibration:	GB00069
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	1	1	25.0	1.6	4.0	
11097-69-1	Aroclor 1254	2	1	36.9	1.6	4.0	
11096-82-5	Aroclor 1260	2	1	35.3	0.6	4.0	

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9973*	*6.98*	*87.3*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9973*	*5.47*	*68.4*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9973*	*6.53*	*81.7*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9973*	*5.61*	*70.2*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230314.b/03142336ECD7.D
Data file 2: /230314.b/230314.b/03142336ECD7.D
Method: \\target\share\chem4\ecd7.i\230314.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 23C0071-10
Client ID:
Injection Date: 14-MAR-2023 21:40
Report Date: 03/15/2023 09:29
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.804	-0.003	183165	5.683	-0.005	152117	27.4	28.1	2.6	Tetrachloro-m-xylene
13.884	-0.011	140606	14.111	-0.008	183885	34.9	32.7	6.6	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	448357	-33.5
Hexabromobiphenyl	1429847	409018	-71.4 <-

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	369327	17.2
Hexabromobiphenyl	513946	369531	-28.1

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	8.396	-0.014	21512	98.3	1	8.298	-0.012	20346	115.4
Aroclor-1248	2	8.565	-0.020	19321	69.5	2	8.705	-0.012	18110	99.3
Aroclor-1248	3	8.983	-0.016	55480	105.8	3	9.140	-0.036	27311	130.2
Aroclor-1248	4	9.285	-0.009	60259	225.6	4	9.532	-0.072	23010	91.3
	Total Col1Ave (4 peaks):				124.8	Total Col2Ave (4 peaks):				109.1 RPD = 13
	Corrected Ave (3 peaks):				91.2	Corrected Ave (3 peaks):				102.0 RPD = 11
										114.97
Aroclor-1254	1	9.285	-0.017	60259	133.8	1	9.437	-0.018	46685	166.3
Aroclor-1254	2	9.361	-0.021	29090	143.7	2	9.955	-0.020	26738	118.4
Aroclor-1254	3	9.660	-0.014	52512	181.4	3	10.105	-0.027	82481	168.8
Aroclor-1254	4	9.786	-0.028	84721	150.5	4	10.351	-0.029	102170	214.5
Aroclor-1254	5	10.117	-0.072	59134	167.6	5	10.553	-0.021	73822	254.6
	Total Col1Ave (5 peaks):				155.4	Total Col2Ave (5 peaks):				184.5 RPD = 17
	Corrected Ave (4 peaks):				148.9	Corrected Ave (4 peaks):				167.0 RPD = 11
										152.35
Aroclor-1260	1	11.032	-0.017	32692	222.2	1	11.641	-0.014	42898	197.4
Aroclor-1260	2	11.347	-0.018	26649	173.3	2	11.903	-0.019	76294	137.6
Aroclor-1260	3	11.718	-0.022	77431	189.9	3	12.421	-0.019	32197	218.8
Aroclor-1260	4	12.118	-0.029	41600	202.6	4	12.486	-0.019	56672	151.6
Aroclor-1260	5	12.234	-0.013	19527	220.9	NS	---			----
	Total Col1Ave (5 peaks):				201.8	Total Col2Ave (4 peaks):				176.4 RPD = 13
	Corrected Ave (4 peaks):				196.7	Corrected Ave (3 peaks):				162.2 RPD = 19
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.907 - 13.795) = 1657790 Col1 Total PCB = 0.3 ppm*

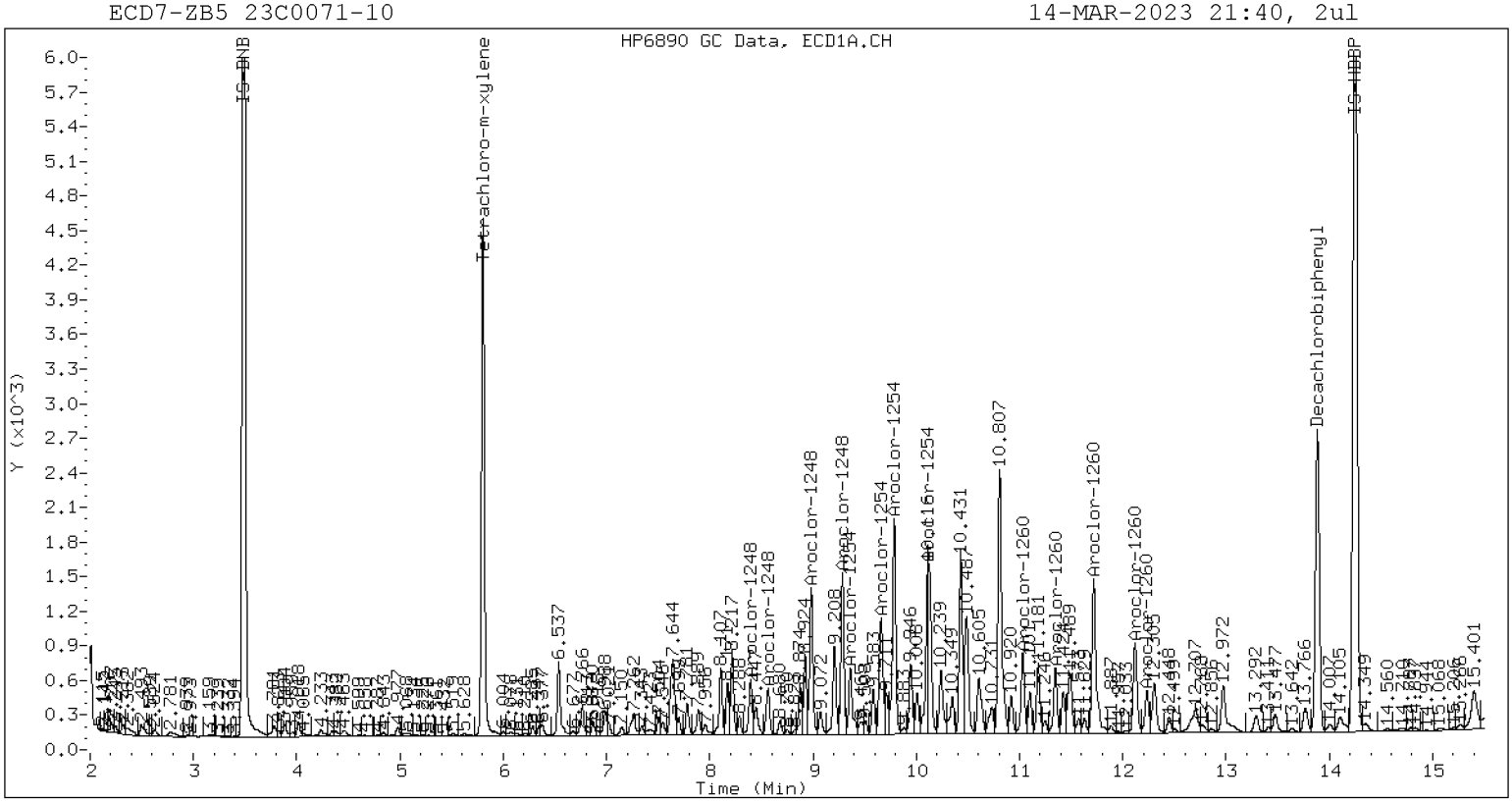
Total PCB Area Col2 (5.788 - 14.019) = 1540772 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

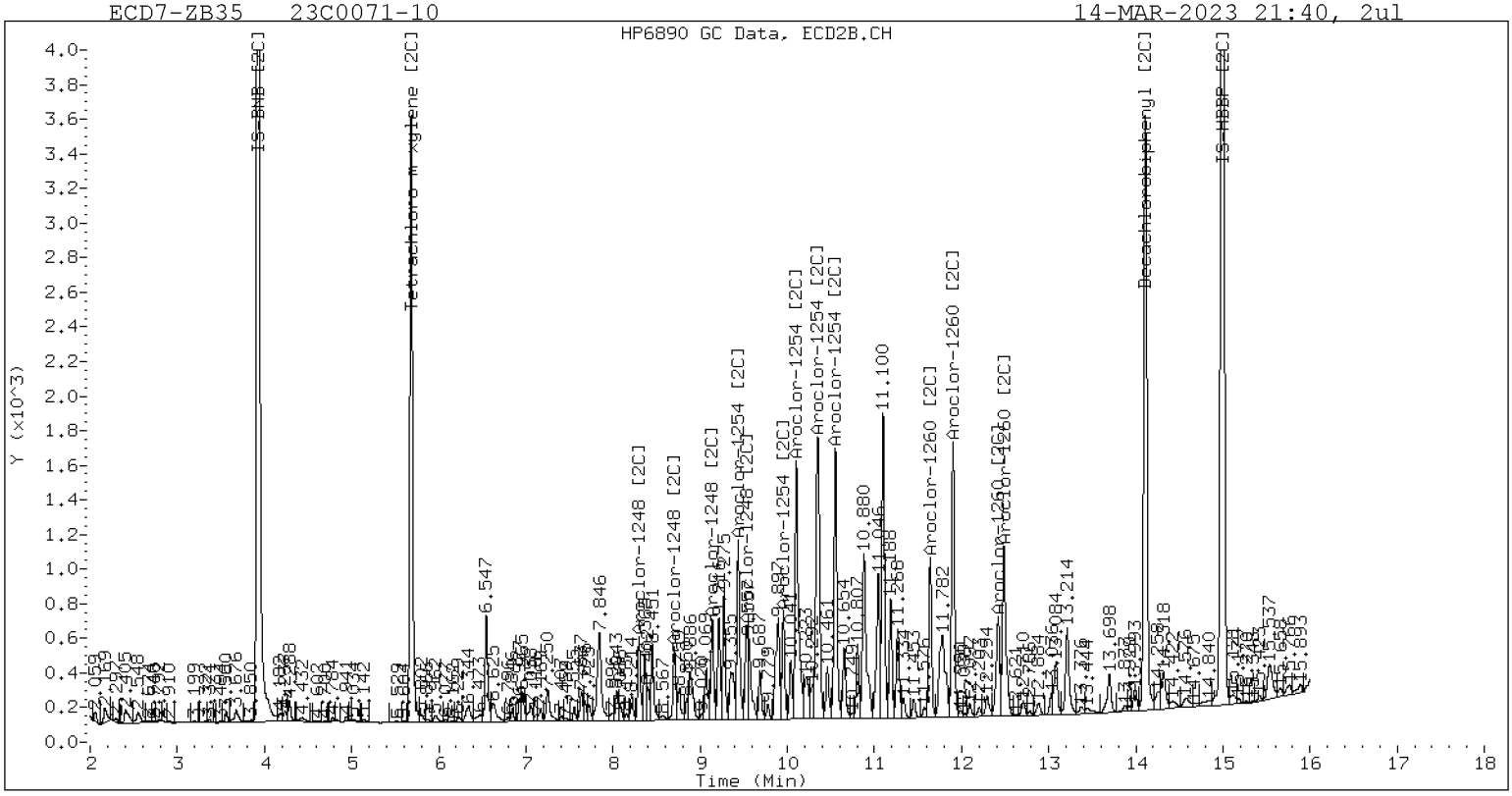
PCB Dual Column Chromatograms

ECD7-ZB5 23C0071-10 14-MAR-2023 21:40, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 23C0071-10 14-MAR-2023 21:40, 2ul

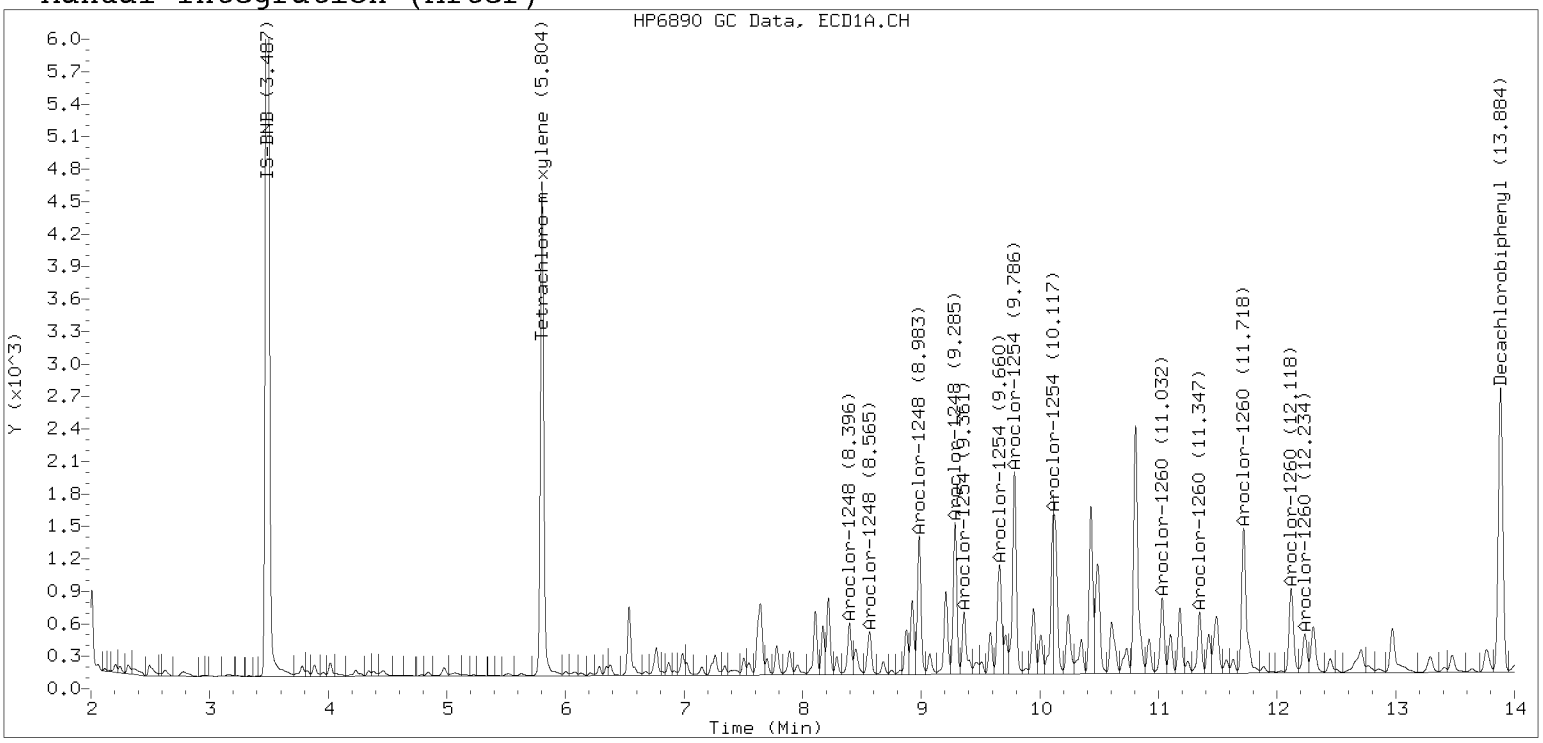


ZB-35 Manual Integration: YES

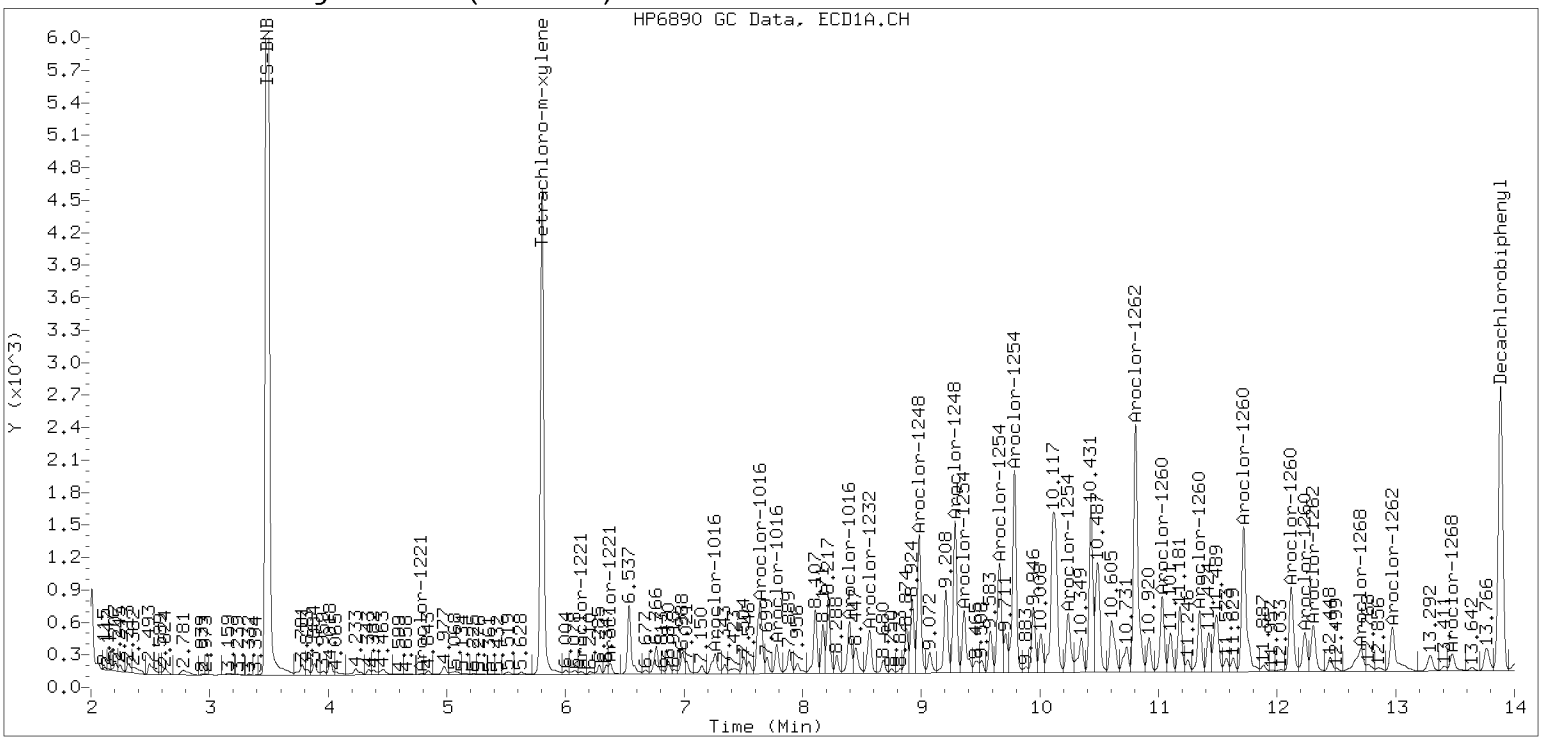
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230314.b/03142336ECD7.D Injection Date: 14-MAR-2023 21:40

Manual Integration (After)



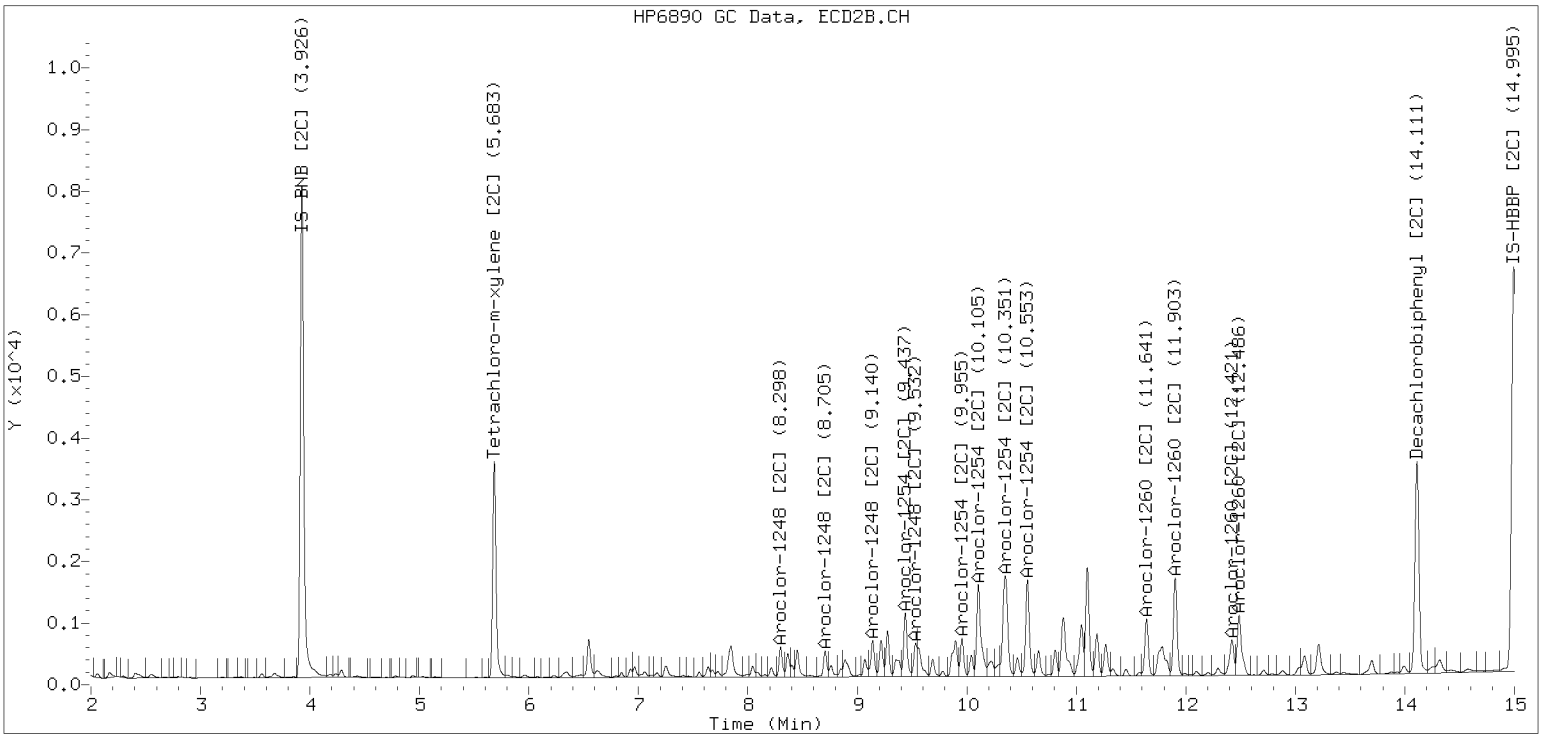
Processed Integration (Before)



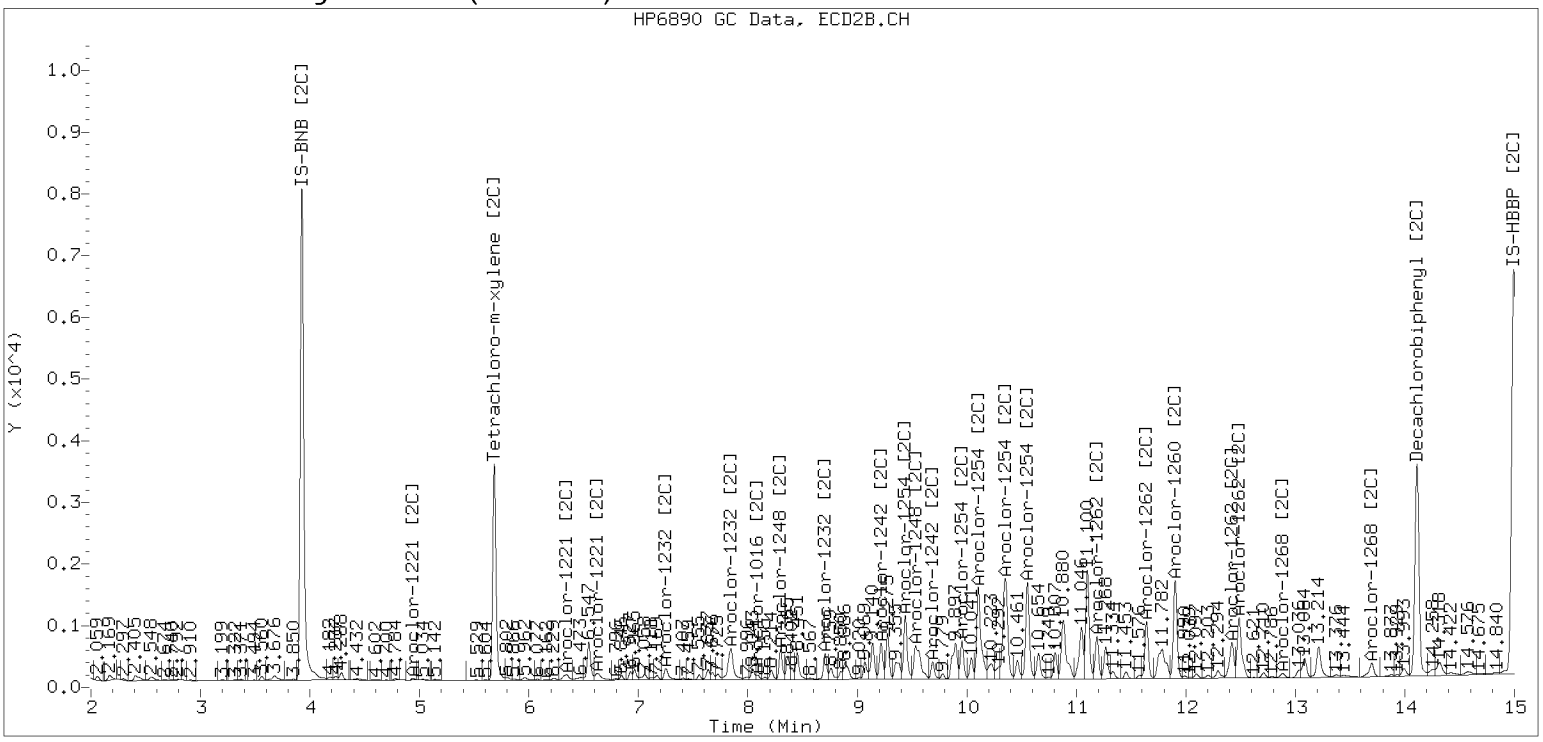
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230314.b/230314.b/03142336ECD7.D Injection Date: 14-MAR-2023

Manual Integration (After)



Processed Integration (Before)



PREPARATION BATCH SUMMARY

EPA 8082A

Laboratory: Analytical Resources, LLC SDG: 23C0071

Client: Anchor QEA, LLC Project: AOC5 MR Phase 1

Batch: BLC0124 Batch Matrix: Solid Preparation: EPA 3546 (Microwave)

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW23-SS1000	23C0071-01	03142326ECD7.D	03/07/23 13:30	
LDW23-SS1037	23C0071-02	03142327ECD7.D	03/07/23 13:30	
LDW23-SS1036	23C0071-03	03142328ECD7.D	03/07/23 13:30	
LDW23-SS1044	23C0071-04	03142329ECD7.D	03/07/23 13:30	
LDW23-SS1048	23C0071-05	03142330ECD7.D	03/07/23 13:30	
LDW23-SS1054	23C0071-06	03142331ECD7.D	03/07/23 13:30	
LDW23-SC1054	23C0071-08	03142334ECD7.D	03/07/23 13:30	
LDW23-SC1048	23C0071-09	03142335ECD7.D	03/07/23 13:30	
LDW23-SC1036	23C0071-10	03142336ECD7.D	03/07/23 13:30	
Blank	BLC0124-BLK1	03142318ECD7.D	03/07/23 13:30	
LCS	BLC0124-BS1	03142319ECD7.D	03/07/23 13:30	
LCS Dup	BLC0124-BSD1	03142320ECD7.D	03/07/23 13:30	
LDW23-SC1036	BLC0124-MS1	03142337ECD7.D	03/07/23 13:30	
LDW23-SC1036	BLC0124-MSD1	03142338ECD7.D	03/07/23 13:30	
Reference	BLC0124-SRM1	03142321ECD7.D	03/07/23 13:30	

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BLC0124

Prepared using: EPA 3546 (Microwave)

8082A PCB Solid 4 in Solid (Version:7 Aroclors)
8082A PCB Solid 4 in Solid

Matrix: Solid Date Prepared: 03/07/23 Balance ID: B1464626 14 Set Up By: GO 3/6/23

WO Comments

23C0064: Copy/Relog from 23A0626. Matrix QC with <6 samples full analysis fee. 7-12 sample 1/2 analysis fee. SRM full analysis fee. Level IV

23C0071: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM I009127 PCB RM J006840-43, 7935-36,K011477-79, MS/MSD </E>
<H>BPR J006840-43, 7935-36, K011477-79, Dup </H> Store in freezer (except GS)

The following standards may be missing from this batch!

Designator	Description
QLS 5	QLS Spike

Analysis: 8082A PCB Solid 4

Lab Number & Container	% Solids	Initial (g) Target Dry: 12.5 (Wet)	Initial (g) Actual	(REQ) Acid C/U (5mL)	(REQ) Sulfur C/U (5mL) 1 2 3	(REQ) Silica Gel C/U (2:5)	Final Effective Vol (mL)	Vol (mL) to Lab	Extraction Comments
23C0064-01 A	79.7	(15.69)	15.75	5mL	5mL	2mL	2.5	1.0	
23C0064-02 A	76.5	(16.35)	16.39	5mL	5mL	2mL	2.5	1.0	
23C0064-03 A	77.5	(16.13)	16.16	5mL	5mL	2mL	2.5	1.0	
23C0064-04 A	77.9	(16.04)	16.12	5mL	5mL	2mL	2.5	1.0	
23C0071-01 A	46.2	(27.03)	27.11	5mL	5mL	2mL	2.5	1.0	
23C0071-02 A	50.8	(24.63)	24.74	5mL	5mL	2mL	2.5	1.0	
23C0071-03 A	47.6	(26.28)	26.35	5mL	5mL	2mL	2.5	1.0	
23C0071-04 A	47.8	(26.16)	26.21	5mL	5mL	2mL	2.5	1.0	
23C0071-05 A	50.0	(25.00)	25.04	5mL	5mL	2mL	2.5	1.0	
23C0071-06 A	50.4	(24.79)	24.84	5mL	5mL	2mL	2.5	1.0	
23C0071-08 A	55.5	(22.53)	22.61	5mL	5mL	2mL	2.5	1.0	
23C0071-09 A	51.4	(24.32)	24.44	5mL	5mL	2mL	2.5	1.0	
23C0071-10 A	58.7	(21.31)	21.32	5mL	5mL	2mL	2.5	1.0	

Batch QC

Lab Number	% Solids	Initial (g) Target Dry: 12.5 (Wet)	Initial (g) Actual	(REQ) Acid C/U (5mL)	(REQ) Sulfur C/U (5mL) 1 2 3	(REQ) Silica Gel C/U (2:5)	Final Effective Vol (mL)	Vol (mL) to Lab	Extraction Comments
BLC0124-BLK1	100.0	(12.50)	12.54	5mL	5mL	2mL	2.5	1.0	(10g Actual Wt.)
BLC0124-BS1	100.0	(12.50)	12.54	5mL	5mL	2mL	2.5	1.0	(10g Actual Wt.)
BLC0124-BSD1	100.0	(12.50)	12.54	5mL	5mL	2mL	2.5	1.0	(10g Actual Wt.)
BLC0124-MS1	58.7	(21.31)	21.31	5mL	5mL	2mL	2.5	1.0	Use 23C0071-10
BLC0124-MSD1	58.7	(21.31)	21.31	5mL	5mL	2mL	2.5	1.0	Use 23C0071-10
BLC0124-SRM1	100.0	~~(12.50)~~ (2.50)	2.54	5mL	5mL	2mL	2.5	1.0	Use K003527

+1g DI WATER

Client ID Verified By 03/07/23 Date

LJ 3/14/23
Preparation Reviewed By Date

03/07/23 15:34
Extraction Date and Time

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BLC0124

Prepared using: EPA 3546 (Microwave)

8082A PCB Solid 4 in Solid (Version:7 Aroclors)
8082A PCB Solid 4 in Solid

WO Comments

23C0064: Copy/Relog from 23A0626. Matrix QC with <6 samples full analysis fee. 7-12 sample 1/2 analysis fee. SRM full analysis fee. Level IV

23C0071: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM I009127 PCB RM J006840-43, 7935-36,K011477-79, MS/MSD </E>
<H>BPR J006840-43, 7935-36, K011477-79, Dup </H> Store in freezer (except GS)

Prep Steps

Microwave
1 (2) 3
CT 03/07/23
Analyst/Date

KD
100°C
Hexane Exchange
(2 X 20 mL)
1 2 3 4 (5) 6
LD 3-8
Analyst/Date

TurboVap
Pre Cleanups
1 2 (3) (4) 5
LJ 3/14/23
Analyst/Date

TurboVap
Post Cleanups
1 2 (3) 4 5
LJ 3/14/23
Analyst/Date

Vialing
LJ 3/14/23
Analyst/Date

Reagents Used

Station/Reagent	Standard ID
Microwave Analyst: CT/CJ Date: 03/07/23	
Neutral Glass Wool	L000497
1:1 Hexane/Acetone	L001751
Hexane	L001957
Anhydrous Sodium Sulfate	L002114
KD Analyst: LD Date: 3-8-23	
Anhydrous Sodium Sulfate	
Hexane	L000889
Vialing Analyst: LJ Date: 3/14/23	
Hexane	L000889
Concentrated Sulfuric Acid	L000331
Silica Gel (SPE) Darts	L002256
Sodium Sulfite	L002437
Tetrabutylammonium hydrogensulfate (TBAS)	L002438

Surrogates & Spike Standards Used

Type	Vial ID / Standard ID	Vol uL	Analyst	Witness
Surrogate 2µg/mL	N L000773 (V) Exp Date: 7/21/2023	50µL	CT	
Spike 20µg/mL	1 L001587 (V) Exp Date: 8/13/2023	63µL	CT	

MANUALLY ENTER EXPIRATION DATES!

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

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

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BLC0124

Prepared using: EPA 3546 (Microwave)

8082A PCB Solid 4 in Solid (Version:7 Aroclors)
8082A PCB Solid 4 in Solid

WO Comments

23C0064: Copy/Relog from 23A0626. Matrix QC with <6 samples full analysis fee. 7-12 sample 1/2 analysis fee. SRM full analysis fee. Level IV

23C0071: <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM K000591, SIM PAH RM I009127 PCB RM J006840-43, 7935-36,K011477-79, MS/MSD </E>
<H>BPR J006840-43, 7935-36, K011477-79, Dup </H> Store in freezer (except GS)

Prep Instructions	
SPECIAL INSTRUCTIONS: 1. Weigh soil/sed into beakers-lightly dry with sodium sulfate. 2. Transfer to microwave vessel(s). Note: (do not fill vessels more than 2/3rd full. Some samples may require two vessels). 3. Add 1:1 Hexane/Acetone until the solvent layer is 3 inches above the soil layer after homogenization. 4. Add surr/spike. 5. Microwave on appropriate power setting determined by # of samples. 6. After microwave-Re-homogenize while hot then cool vessels in R-05 15 minutes. Re-homogenize while cool. 7. Decant 1:1 Hex/Ace into Erlenmeyer flask with sodium sulfate in bottom and funnel with neutral glasswool plug. 8. Re-homogenize and rinse with 1:1 Hexane/Acetone. 9. Let cool and decant solvent then empty the soil into the funnel and rinse with Hexane. 10. KD on 100° bath. 11. Exchange (2 X with 20mL) Hexane. 12. TurboVap. 13. Clean-ups. 14. TurboVap. 15. Vial with Hexane. A. Need Total Solids Y/N B. Archive/Freeze Y/N	

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Laboratory Analyst Notes

Extraction Parameter: PAH Extraction Batch: BLC0124

Total Solids Batch: BLC0084 Work Order(s): 23C0071

Screens: Soil/Sediment/Solid/Other:	Analyst/Date
[X] No Anomalies (standard soil/wet sediment/sand/gravel)= ϕ1, ϕ3.	MJ ϕ3/ϕ3/23
[X] Standing Water Decanted (Not shared)= ϕ1, ϕ3, ϕ4.	MJ ϕ3/ϕ3/23
[ ] Standing Water Homogenized (Shared samples)=	
[ ] Clay/Clumps (Difficult to homogenize)=	
[ ] Rocks (%+size)?	
[ ] Organics (Leaves/sticks/grass)=	
[ ] Oily, obvious fuel/sulfur odors=	
[ ] Received in 32oz jar(s)=Homogenized in Pyrex dish=	
[ ] Previously Frozen =	
[X] Other (Details)= shell pieces 70.% =ϕ2. 40.% =ϕ4.	MJ ϕ3/ϕ3/23
Aqueous:	
[ ] No Anomalies	
[ ] Turbid/Color=	
[ ] Particulates(%)=(Note: >5%=Notify Supervisor/Lead)	
[ ] Emulsions (%)=	
[ ] Oily, obvious fuel/sulfur odors=	
[ ] Other (Details)=	
[ ] Received in 1.0L Bottle(s)=No Bottle Rinse=	
[ ] Other Notes/Comments= (Note problems, concerns, corrective actions).	
small amount of 064-01 lost while vortexing during sulfur c/u	
[X] Share Samples Y / (N)	MJ ϕ3/ϕ3/23
[X] Multiple Jars Y / (N)	MJ ϕ3/ϕ3/23
[ ] Sample Pre-Screens indicate analyte activity=	
[ ] Sample weights/volumes reduced based on Pre-Screen=	

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Laboratory Analyst Notes

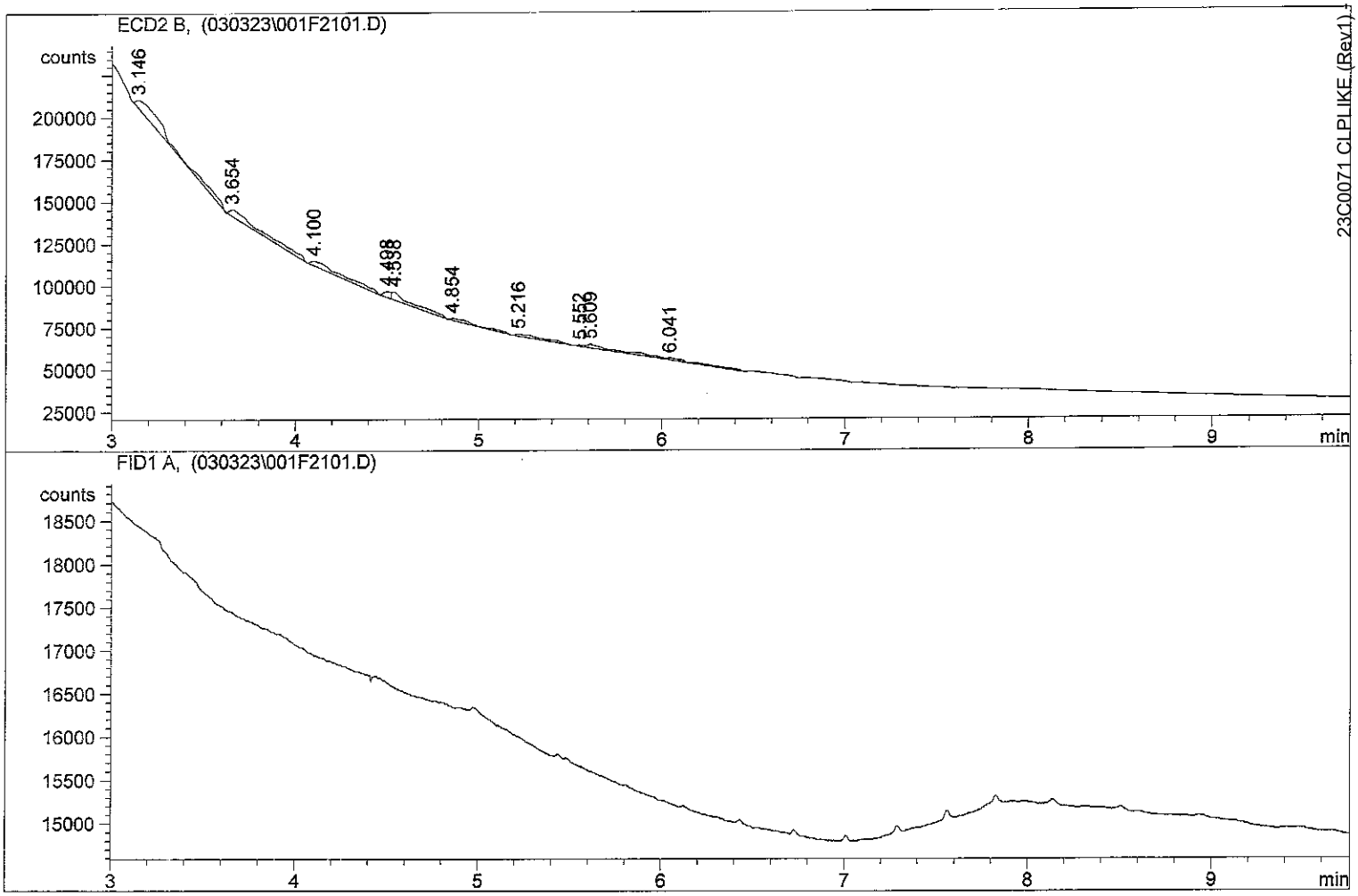
Extraction Parameter: PCB Extraction Batch: BLC0124

Total Solids Batch: BLC0085 Work Order(s): 23C0071

Screens: Soil/Sediment/Solid/Other:	Analyst/Date
☒ No Anomalies (standard soil/wet sediment/sand/gravel)= 01-06, 08-10	CR 3/31/23
☒ Standing Water Decanted (Not shared)= 01-06, 08-10	CR 3/31/23
☐ Standing Water Homogenized (Shared samples)=	
☐ Clay/Clumps (Difficult to homogenize)=	
☐ Rocks (%+size)?	
☐ Organics (Leaves/sticks/grass)=	
☐ Oily, obvious fuel/sulfur odors=	
☐ Received in 32oz jar(s)=Homogenized in Pyrex dish=	
☒ Previously Frozen = 01-06, 08-10	CR 3/31/23
☐ Other (Details)=	
Aqueous:	
☐ No Anomalies	
☐ Turbid/Color=	
☐ Particulates(%)=(Note: >5%=Notify Supervisor/Lead)	
☐ Emulsions (%)=	
☐ Oily, obvious fuel/sulfur odors=	
☐ Other (Details)=	
☐ Received in 1.0L Bottle(s)=No Bottle Rinse=	
☐ Other Notes/Comments= (Note problems, concerns, corrective actions).	
☒ Share Samples (Y) / N 01-06, 08-10	CR 3/31/23
☒ Multiple Jars Y / (N)	CR 3/31/23
☐ Sample Pre-Screens indicate analyte activity=	
☐ Sample weights/volumes reduced based on Pre-Screen=	

Injection Date : 3/3/2023 10:08:56 PM Seq. Line : 21
Sample Name : DCM RINSE Location : Vial 1
Acq. Operator : CR Inj : 1
Inj Volume : 1 µl

Sequence File : C:\HPCHEM\1\SEQUENCE\030323.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD

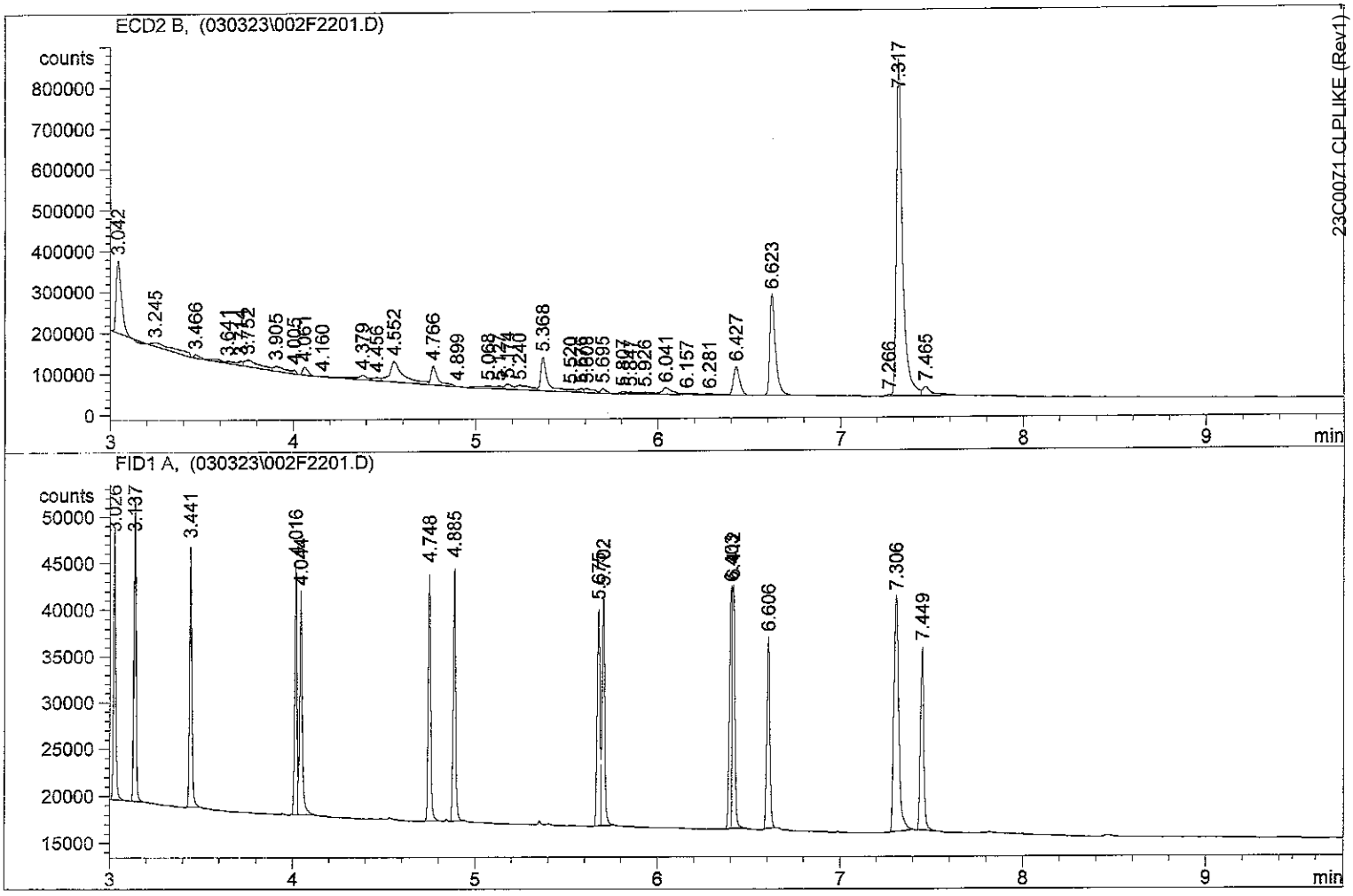


*** End of Report ***

Injection Date : 3/3/2023 10:22:56 PM
Sample Name : PNA STD 10PPM
Acq. Operator : CR

Seq. Line : 22
Location : Vial 2
Inj : 1
Inj Volume : 1 µl

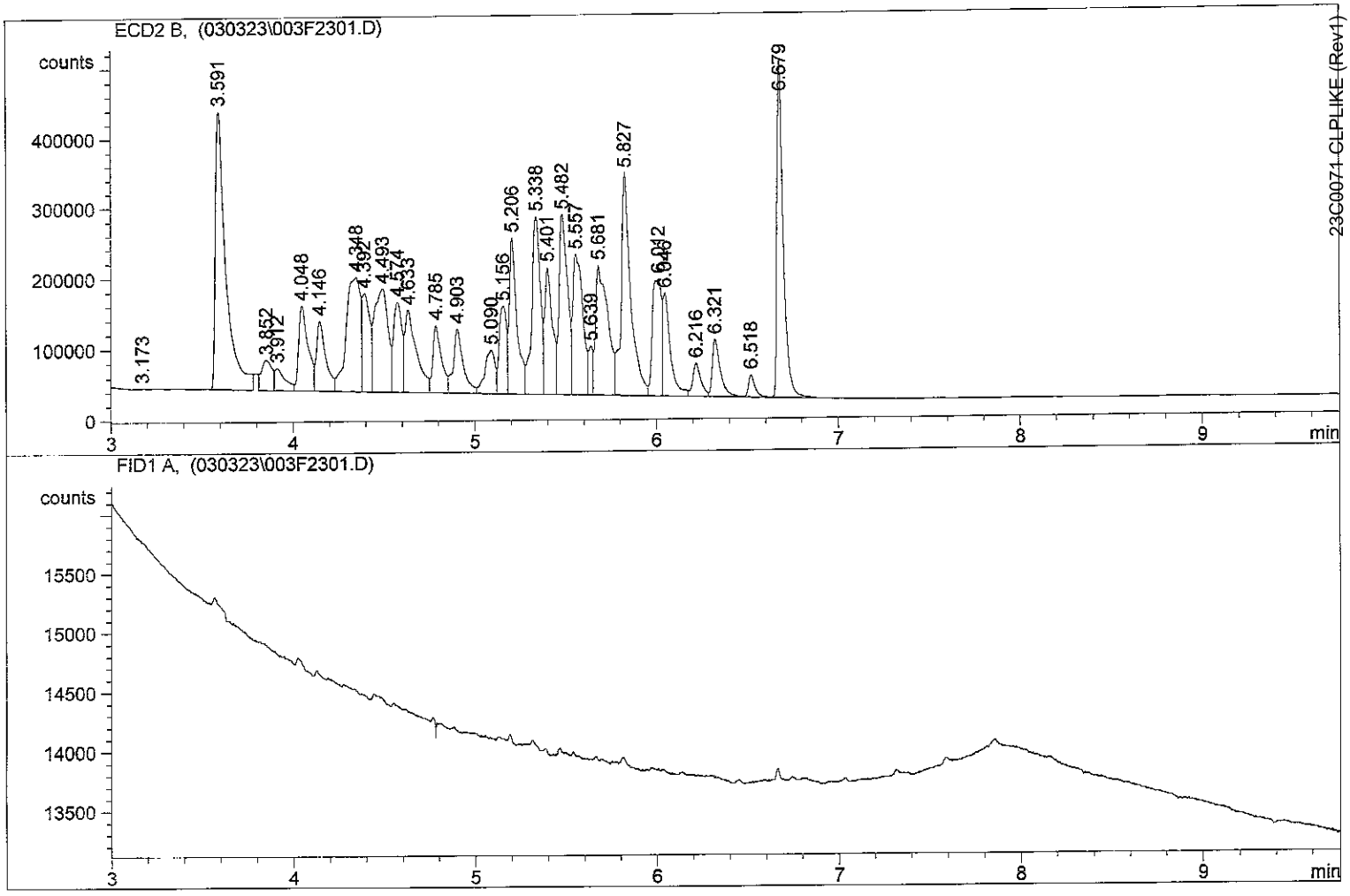
Sequence File : C:\HPCHEM\1\SEQUENCE\030323.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD



*** End of Report ***

Injection Date	: 3/3/2023 10:37:16 PM	Seq. Line	: 23
Sample Name	: AR1660 1PPM	Location	: Vial 3
Acq. Operator	: CR	Inj	: 1
		Inj Volume	: 1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\030323.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		

SCREEN METHOD

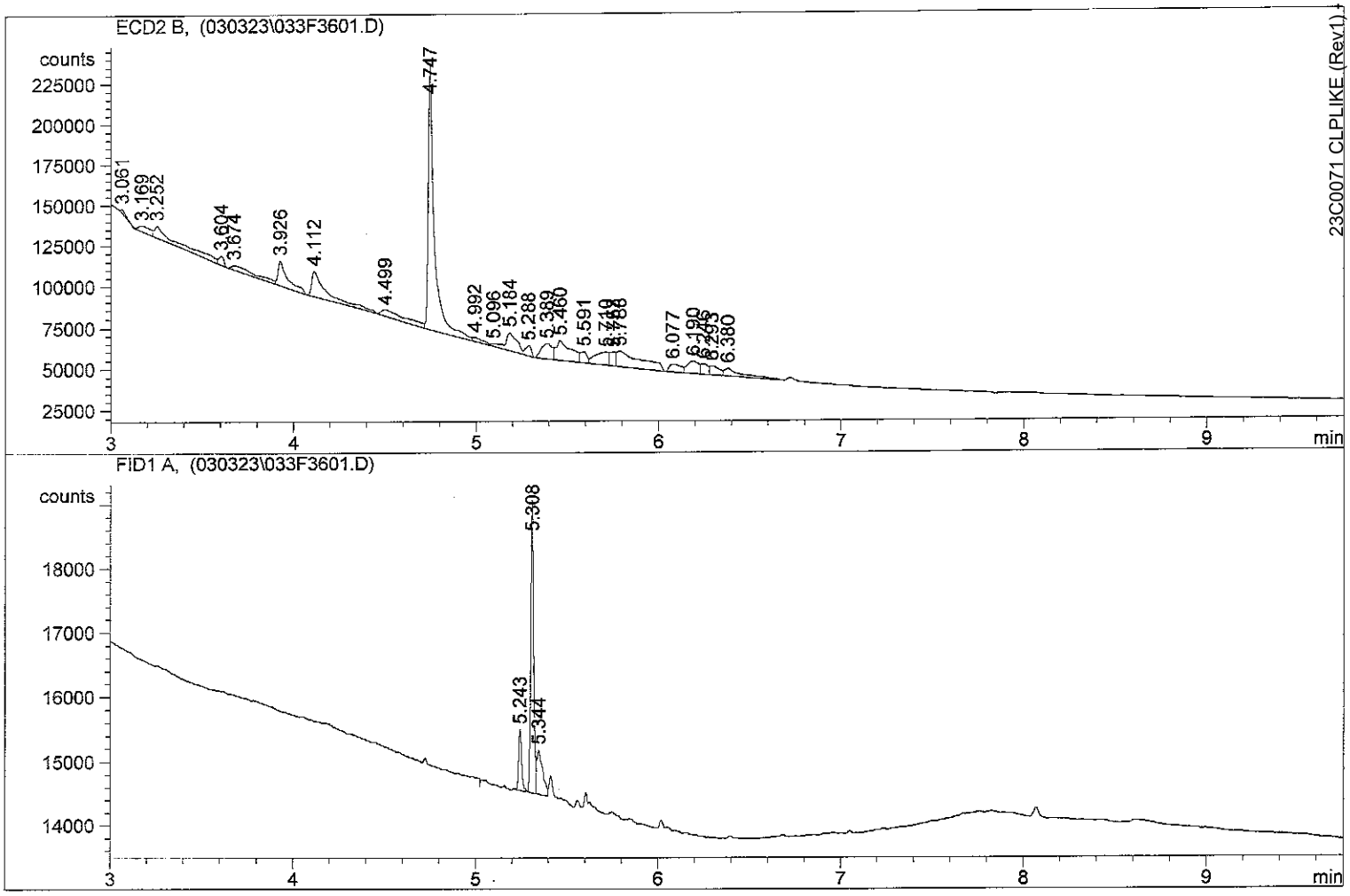


*** End of Report ***

Injection Date : 3/4/2023 1:41:42 AM
Sample Name : 23C0064 01
Acq. Operator : CR

Seq. Line : 36
Location : Vial 33
Inj : 1
Inj Volume : 1 µl

Sequence File : C:\HPCHEM\1\SEQUENCE\030323.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD

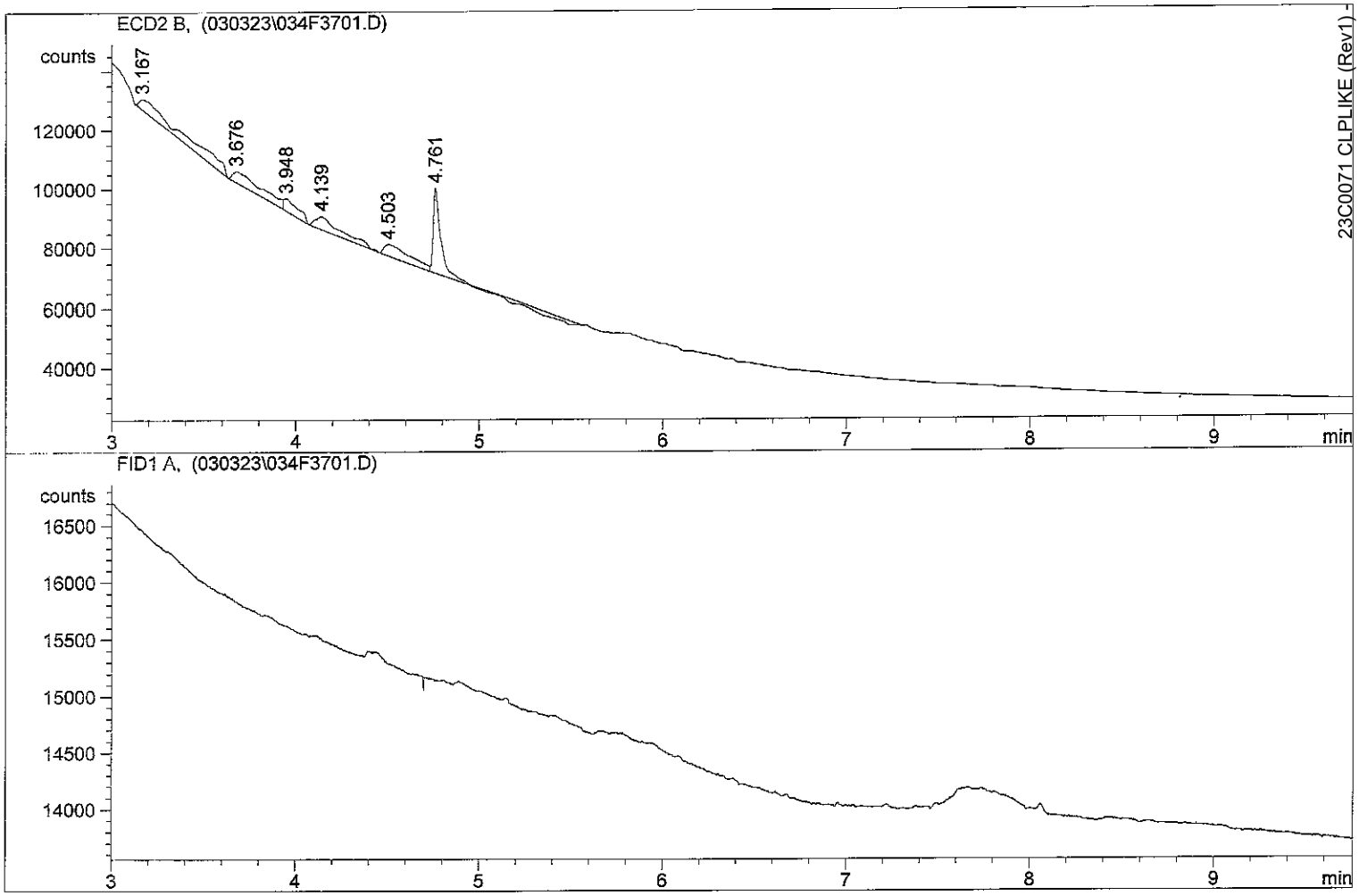


*** End of Report ***

Injection Date : 3/4/2023 1:55:40 AM
Sample Name : 23C0064 02
Acq. Operator : CR

Seq. Line : 37
Location : Vial 34
Inj : 1
Inj Volume : 1 µl

Sequence File : C:\HPCHEM\1\SEQUENCE\030323.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD

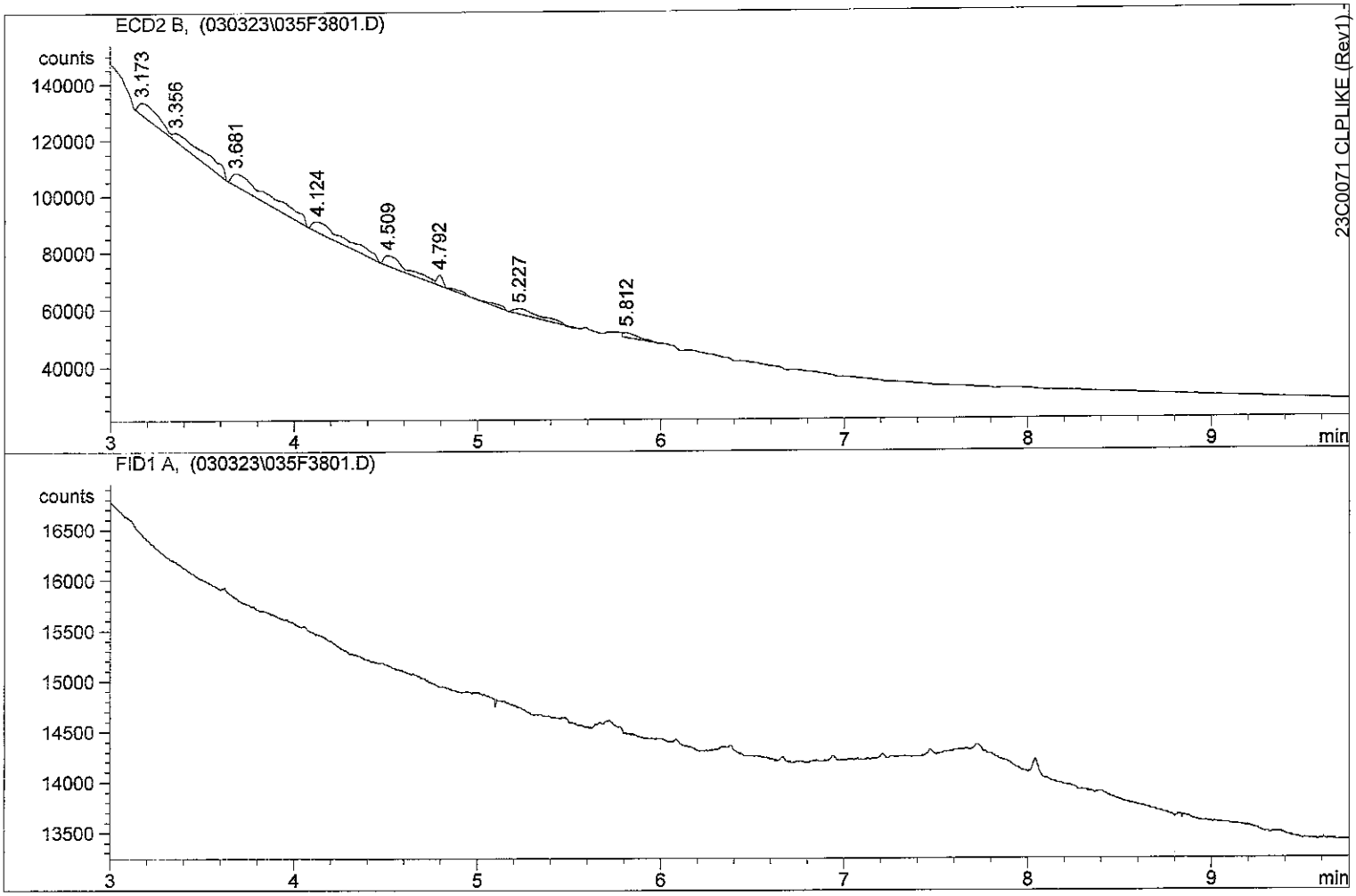


*** End of Report ***

Injection Date : 3/4/2023 2:09:55 AM
Sample Name : 23C0064 03
Acq. Operator : CR

Seq. Line : 38
Location : Vial 35
Inj : 1
Inj Volume : 1 µl

Sequence File : C:\HPCHEM\1\SEQUENCE\030323.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD

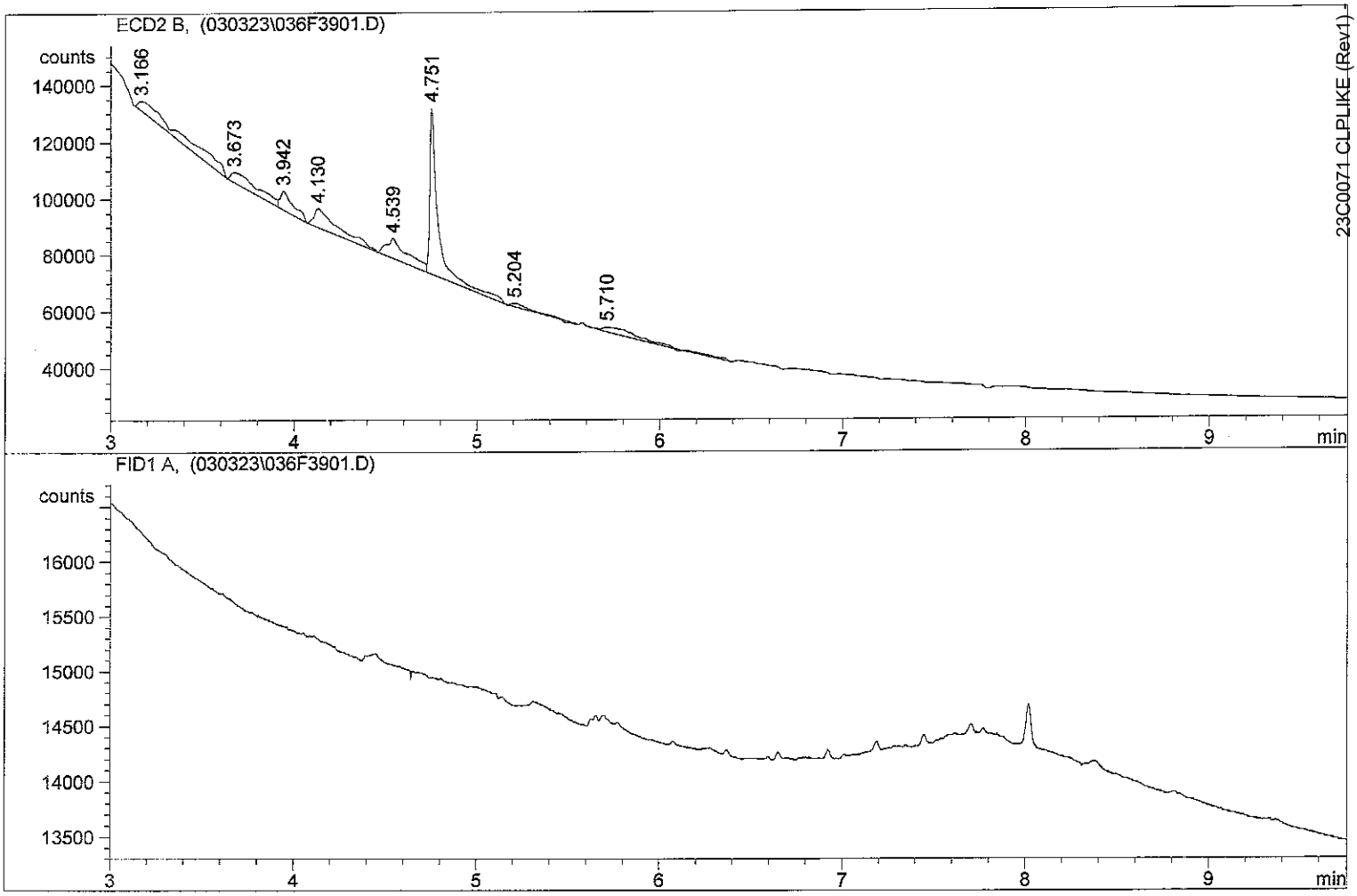


*** End of Report ***

Injection Date : 3/4/2023 2:23:55 AM
Sample Name : 23C0064 04
Acq. Operator : CR

Seq. Line : 39
Location : Vial 36
Inj : 1
Inj Volume : 1 µl

Sequence File : C:\HPCHEM\1\SEQUENCE\030323.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD

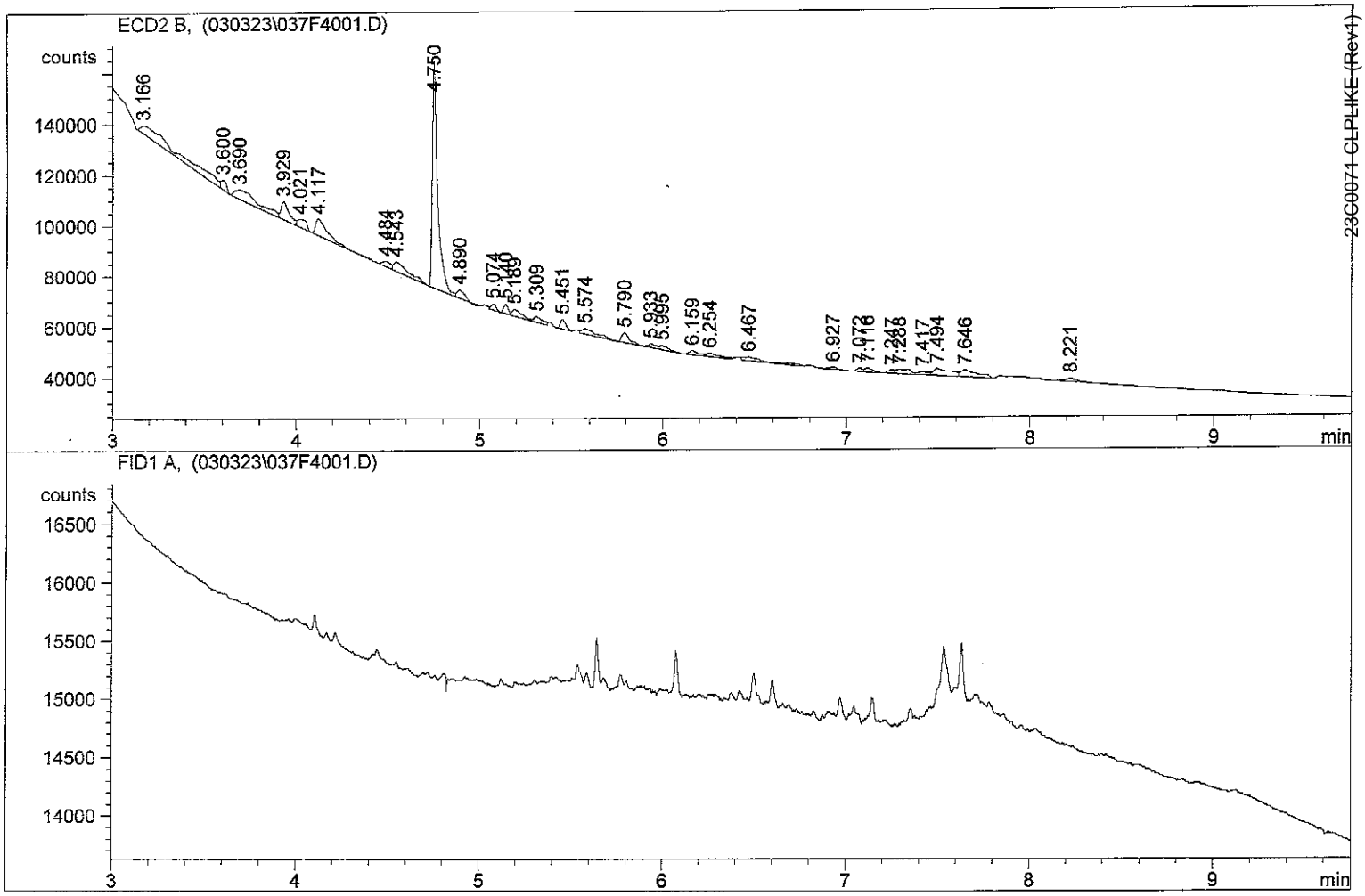


*** End of Report ***

Injection Date : 3/4/2023 2:38:09 AM
Sample Name : 23C0071 01
Acq. Operator : CR

Seq. Line : 40
Location : Vial 37
Inj : 1
Inj Volume : 1 µl

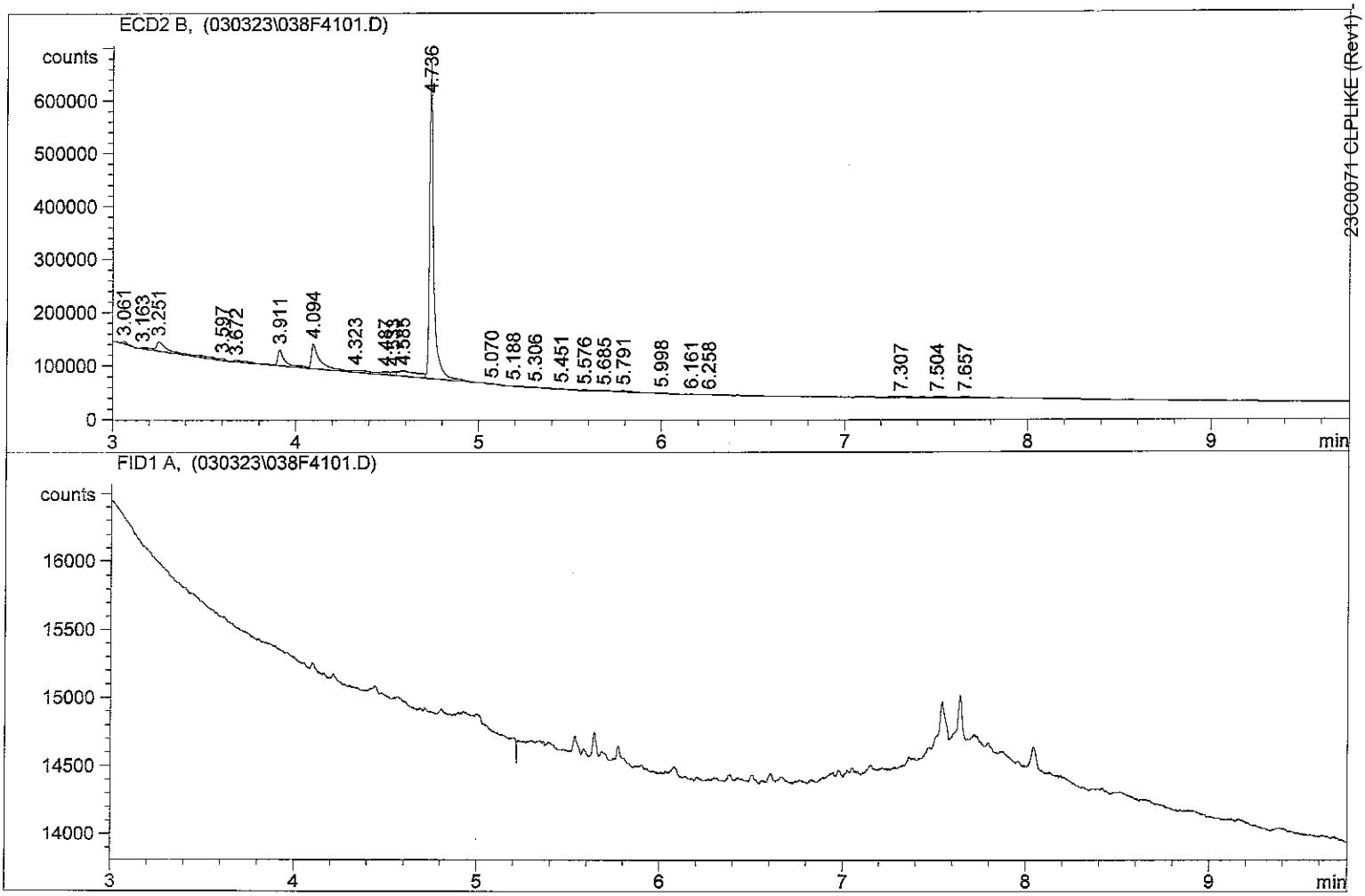
Sequence File : C:\HPCHEM\1\SEQUENCE\030323.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD



*** End of Report ***

Injection Date : 3/4/2023 2:52:11 AM Seq. Line : 41
Sample Name : 23C0071 02 Location : Vial 38
Acq. Operator : CR Inj : 1
Inj Volume : 1 µl

Sequence File : C:\HPCHEM\1\SEQUENCE\030323.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD

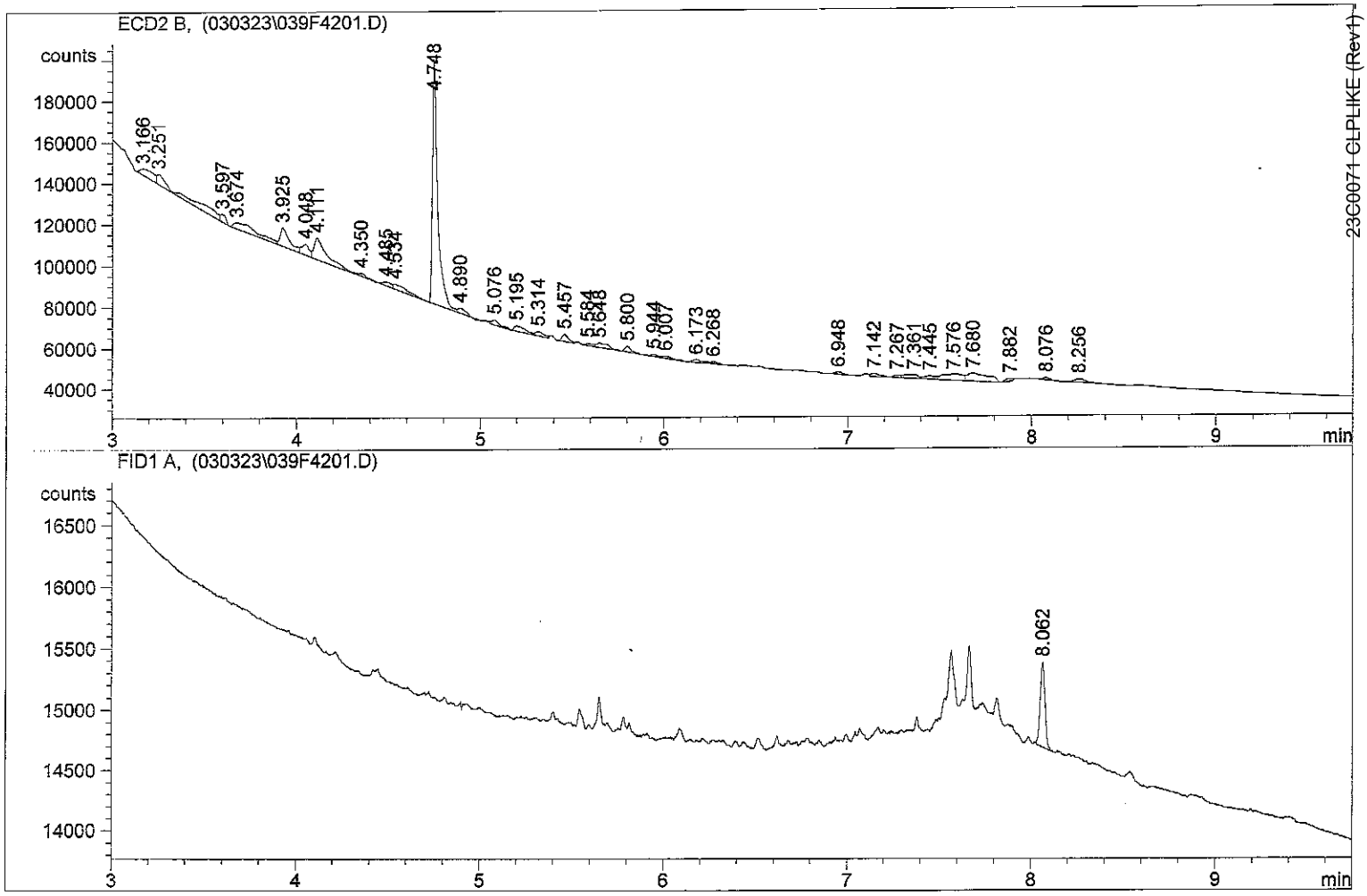


*** End of Report ***

Injection Date : 3/4/2023 3:06:30 AM
Sample Name : 23C0071 03
Acq. Operator : CR

Seq. Line : 42
Location : Vial 39
Inj : 1
Inj Volume : 1 µl

Sequence File : C:\HPCHEM\1\SEQUENCE\030323.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD

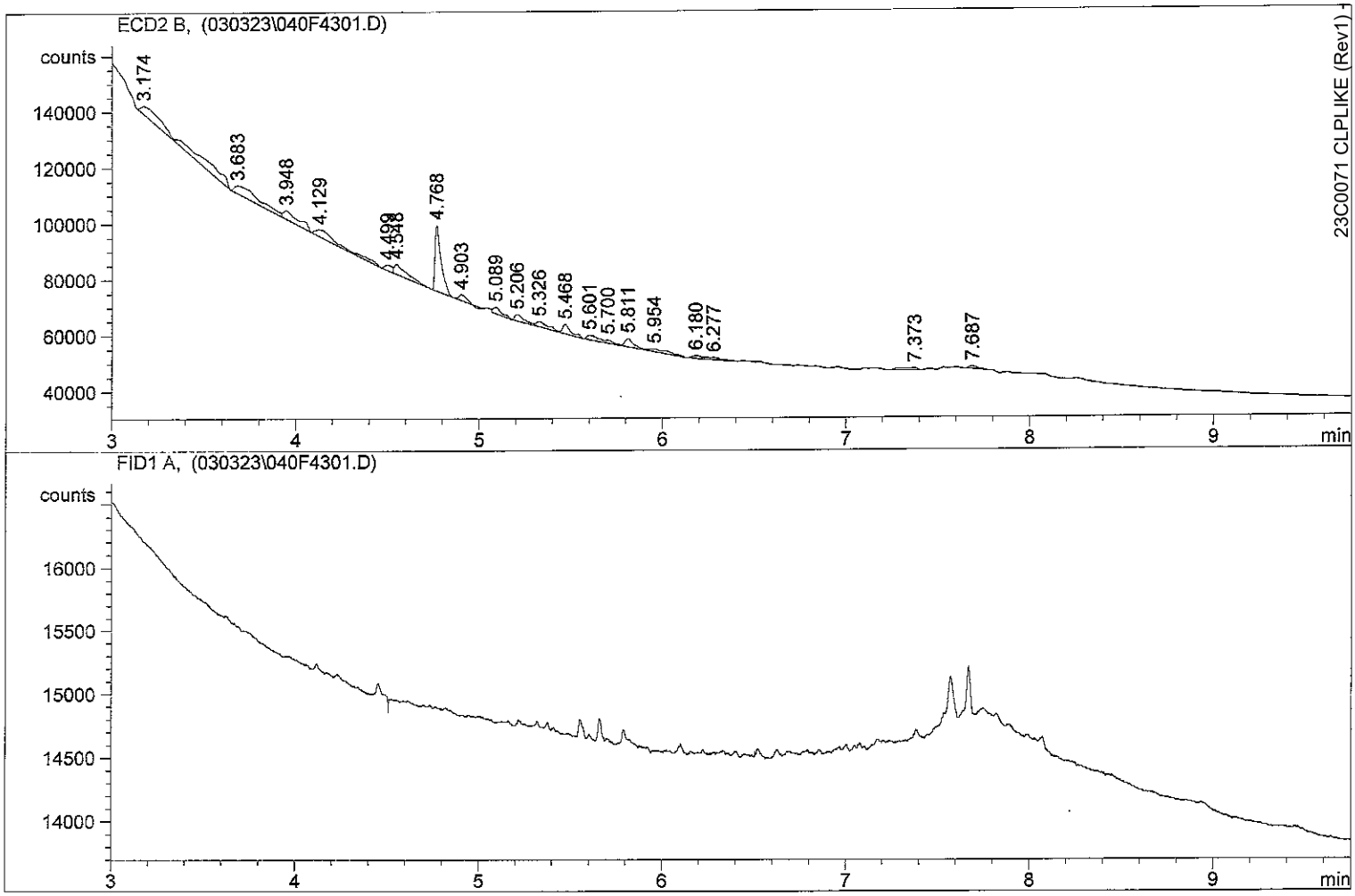


*** End of Report ***

Injection Date : 3/4/2023 3:20:28 AM
Sample Name : 23C0071 04
Acq. Operator : CR

Seq. Line : 43
Location : Vial 40
Inj : 1
Inj Volume : 1 µl

Sequence File : C:\HPCHEM\1\SEQUENCE\030323.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD



*** End of Report ***

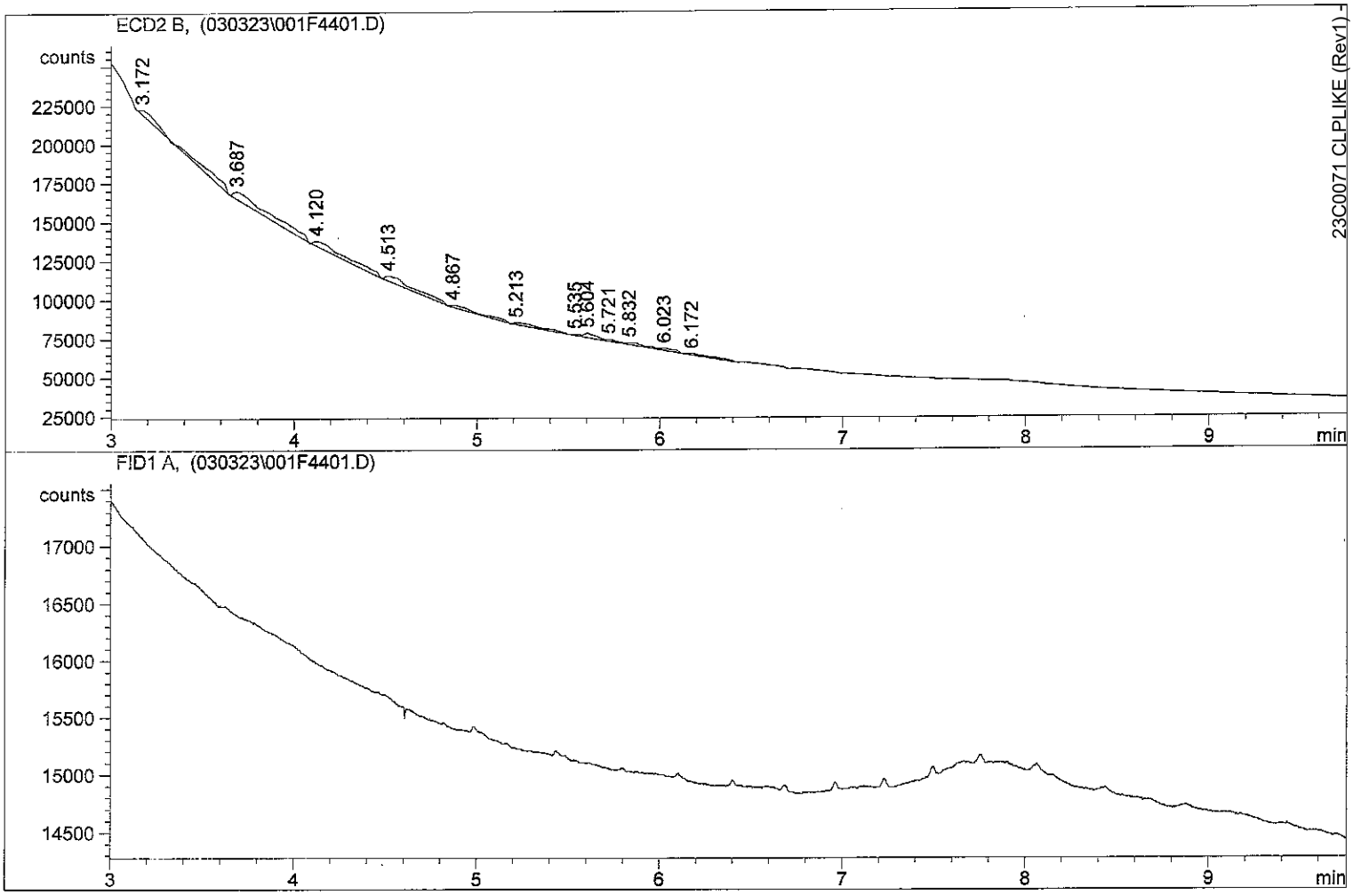
Data File C:\HPCHEM\1\DATA\030323\001F4401.D

Sample Name: DCM RINSE

Injection Date : 3/4/2023 3:34:45 AM
Sample Name : DCM RINSE
Acq. Operator : CR

Seq. Line : 44
Location : Vial 1
Inj : 1
Inj Volume : 1 µl

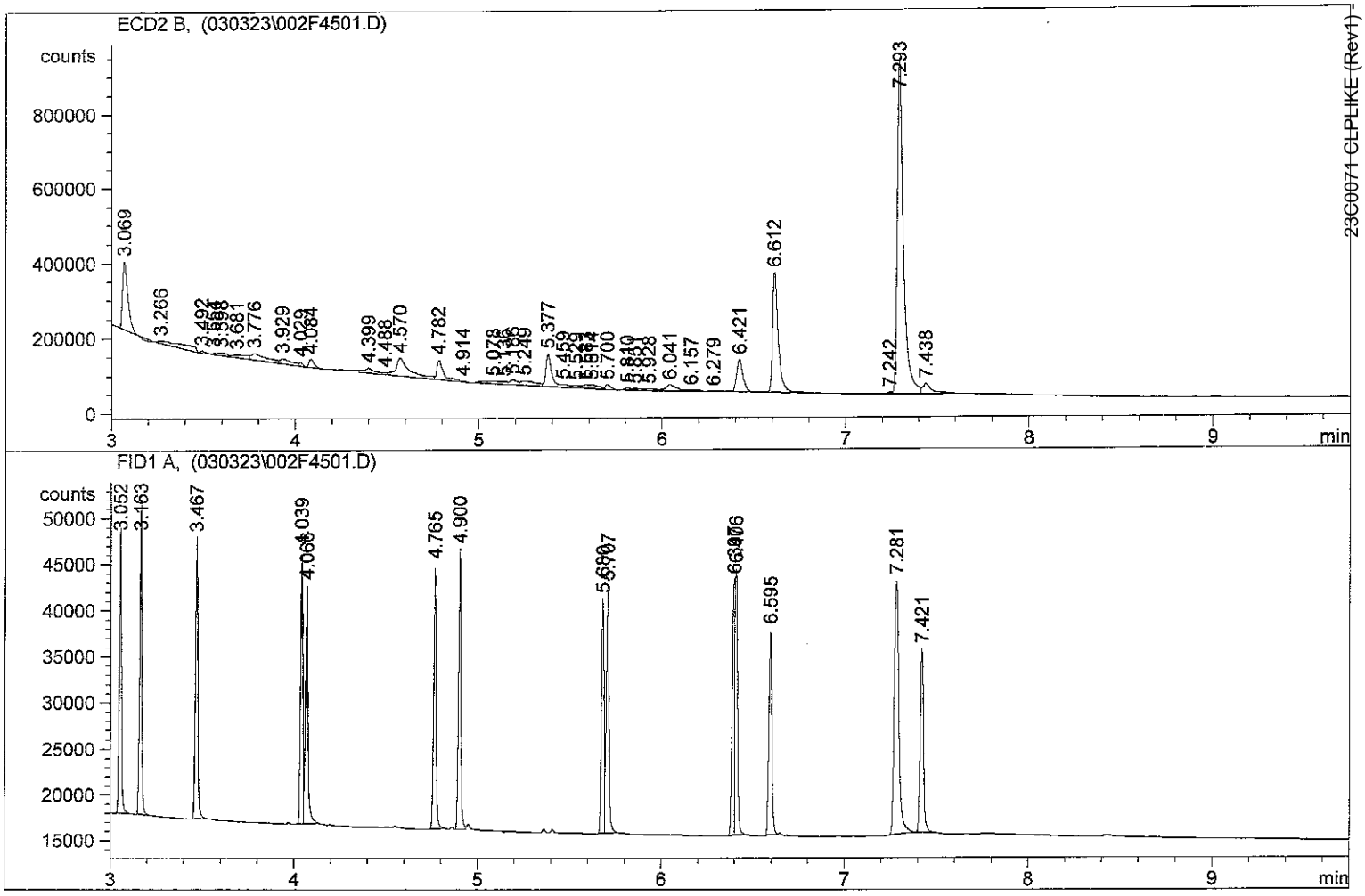
Sequence File : C:\HPCHEM\1\SEQUENCE\030323.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD



*** End of Report ***

Injection Date : 3/4/2023 3:48:47 AM Seq. Line : 45
Sample Name : PNA STD 10PPM Location : Vial 2
Acq. Operator : CR Inj : 1
Inj Volume : 1 µl

Sequence File : C:\HPCHEM\1\SEQUENCE\030323.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD

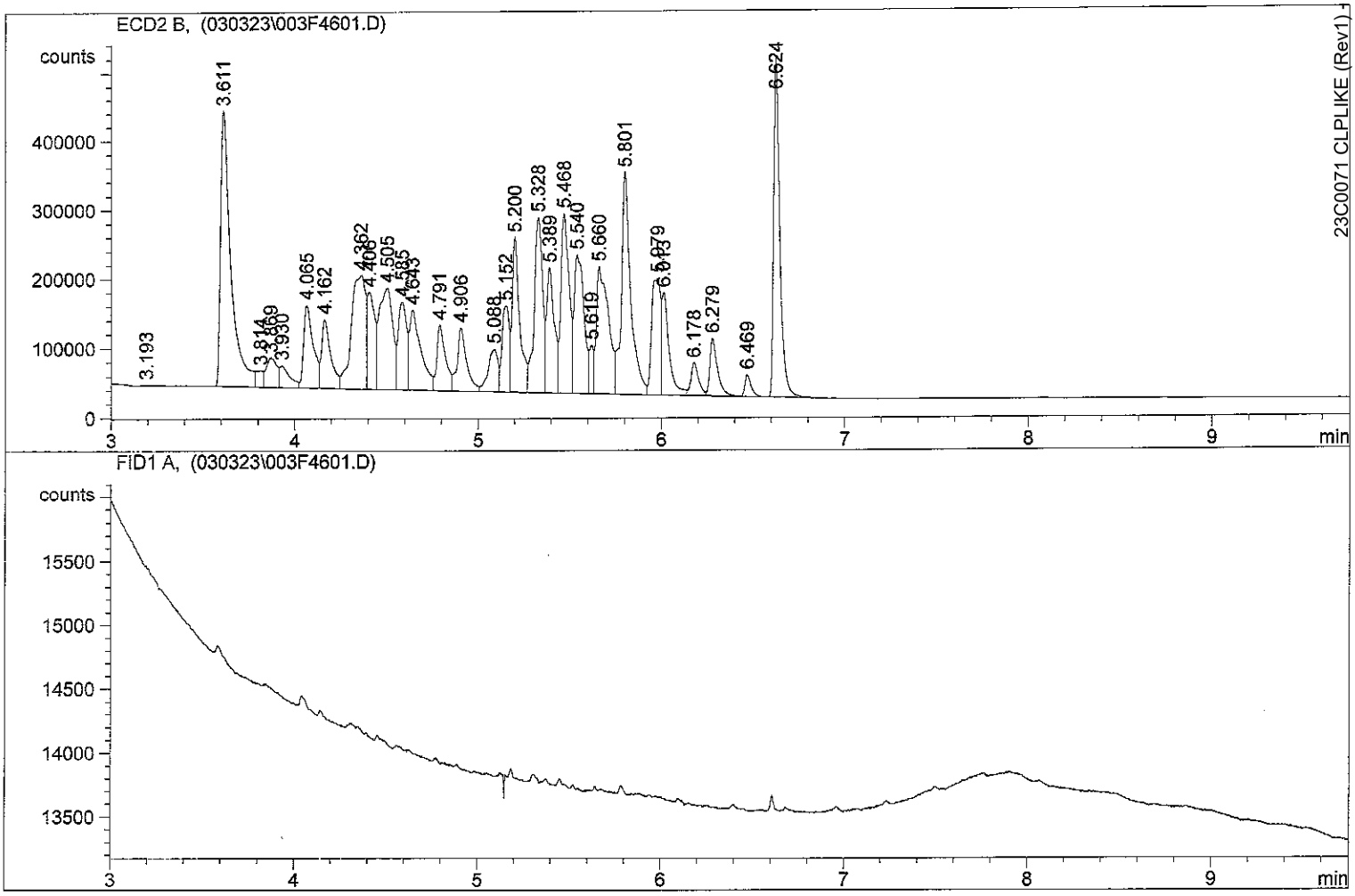


*** End of Report ***

Injection Date : 3/4/2023 4:03:02 AM
Sample Name : AR1660 1PPM
Acq. Operator : CR

Seq. Line : 46
Location : Vial 3
Inj : 1
Inj Volume : 1 µl

Sequence File : C:\HPCHEM\1\SEQUENCE\030323.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD



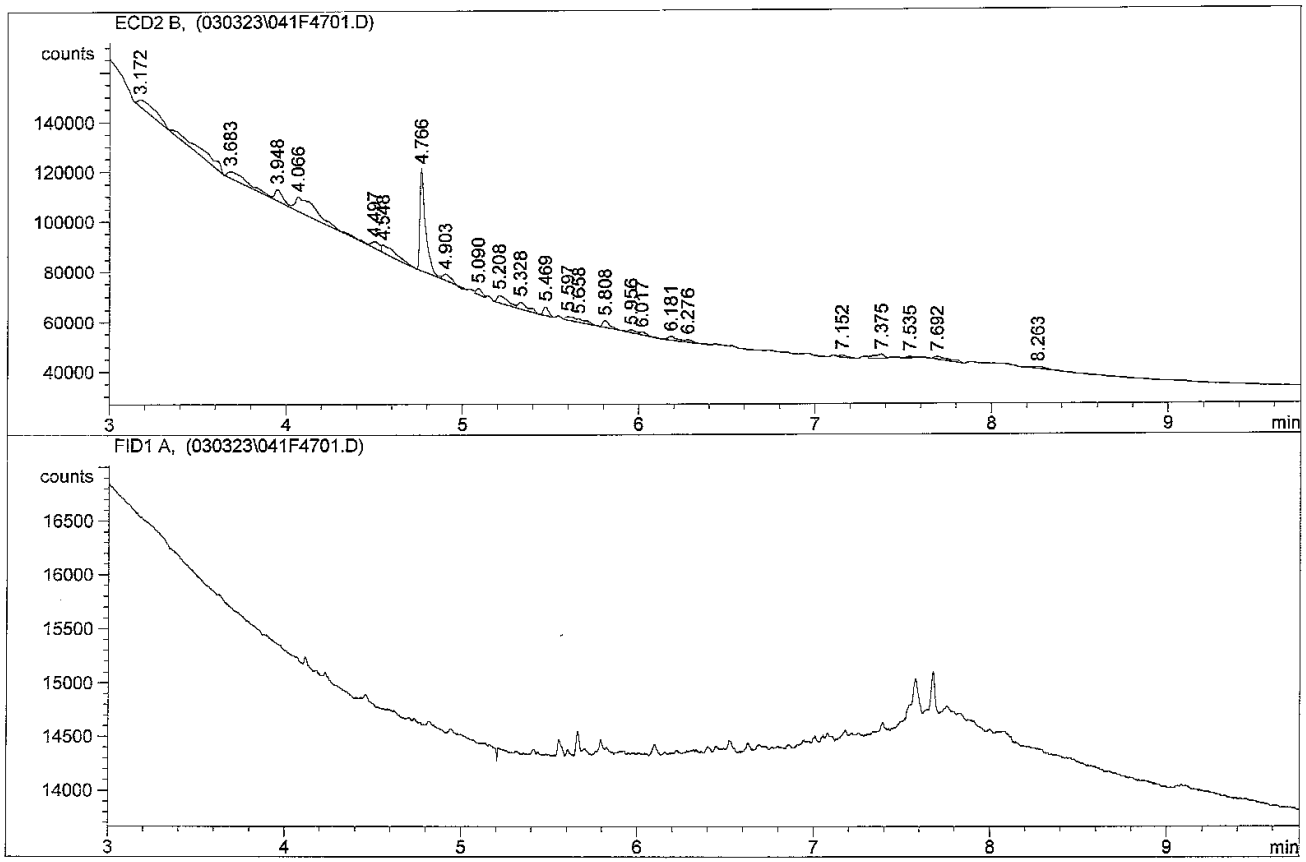
*** End of Report ***

Data File C:\HPCHEM\1\DATA\030323\042F4801.D Sample Name: 23C0071 06

Injection Date	: 3/4/2023 4:31:17 AM	Seq. Line :	48
Sample Name	: 23C0071 06	Location :	Vial 42
Acq. Operator	: CR	Inj :	1
		Inj Volume :	1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\030323.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		
SCREEN METHOD			

Data File C:\HPCHEM\1\DATA\030323\041F4701.D Sample Name: 23C0071 05

Injection Date	: 3/4/2023 4:16:57 AM	Seq. Line :	47
Sample Name	: 23C0071 05	Location :	Vial 41
Acq. Operator	: CR	Inj :	1
		Inj Volume :	1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\030323.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		
SCREEN METHOD			

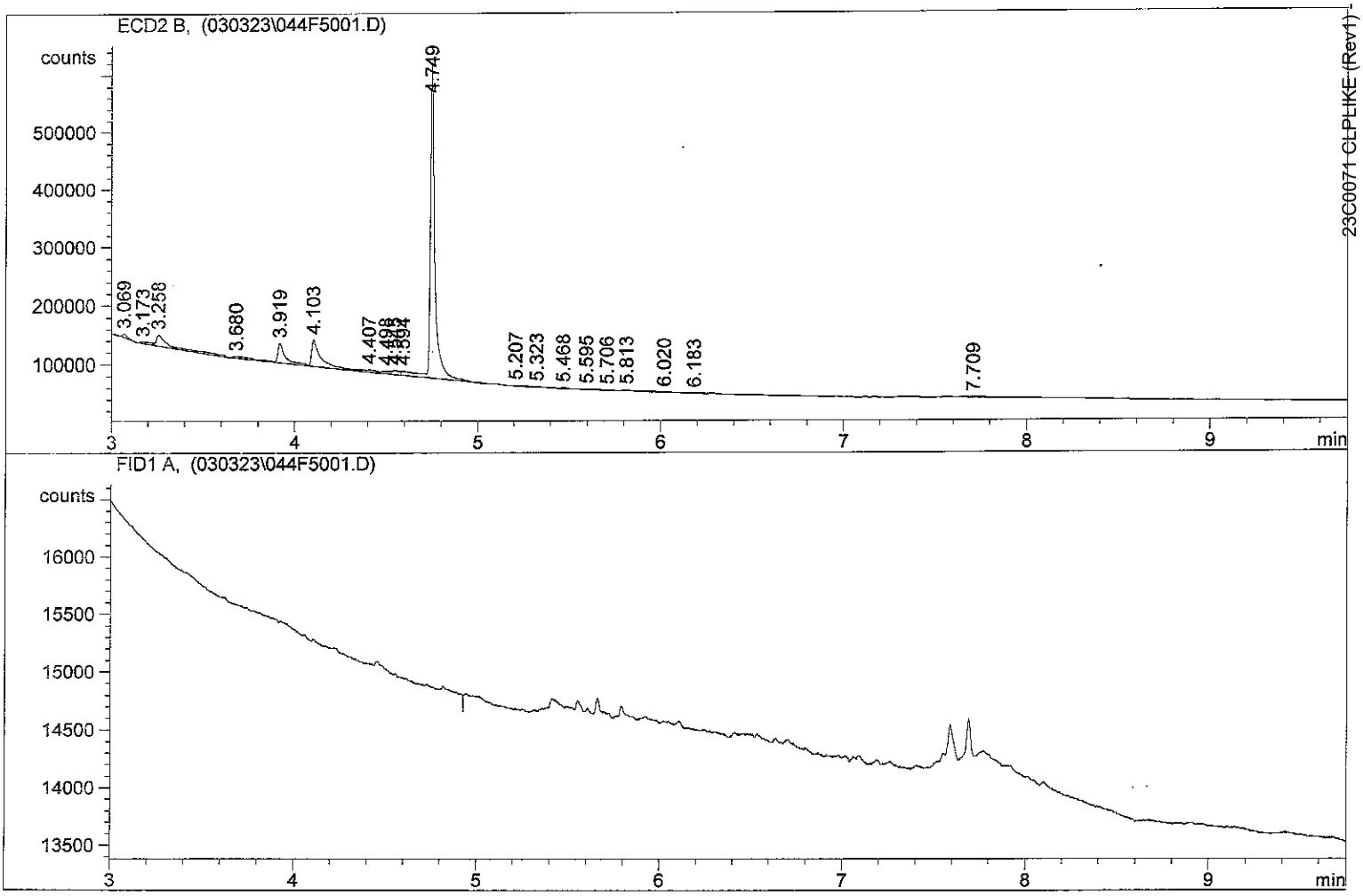


*** End of Report ***

Injection Date : 3/4/2023 4:59:34 AM
Sample Name : 23C0071 09
Acq. Operator : CR

Seq. Line : 50
Location : Vial 44
Inj : 1
Inj Volume : 1 µl

Sequence File : C:\HPCHEM\1\SEQUENCE\030323.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD

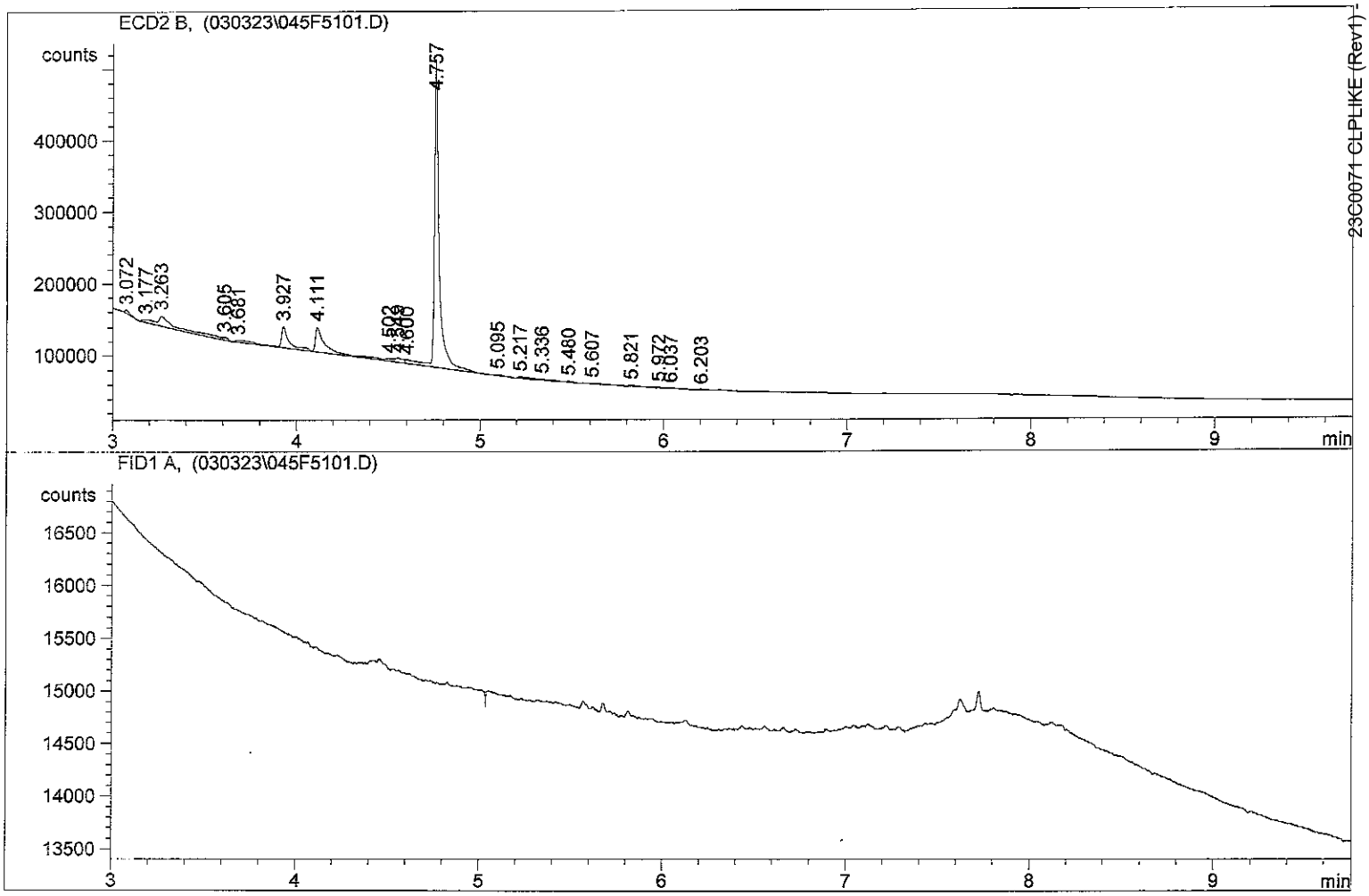


*** End of Report ***

Injection Date : 3/4/2023 5:13:33 AM
Sample Name : 23C0071 10
Acq. Operator : CR

Seq. Line : 51
Location : Vial 45
Inj : 1
Inj Volume : 1 µl

Sequence File : C:\HPCHEM\1\SEQUENCE\030323.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD

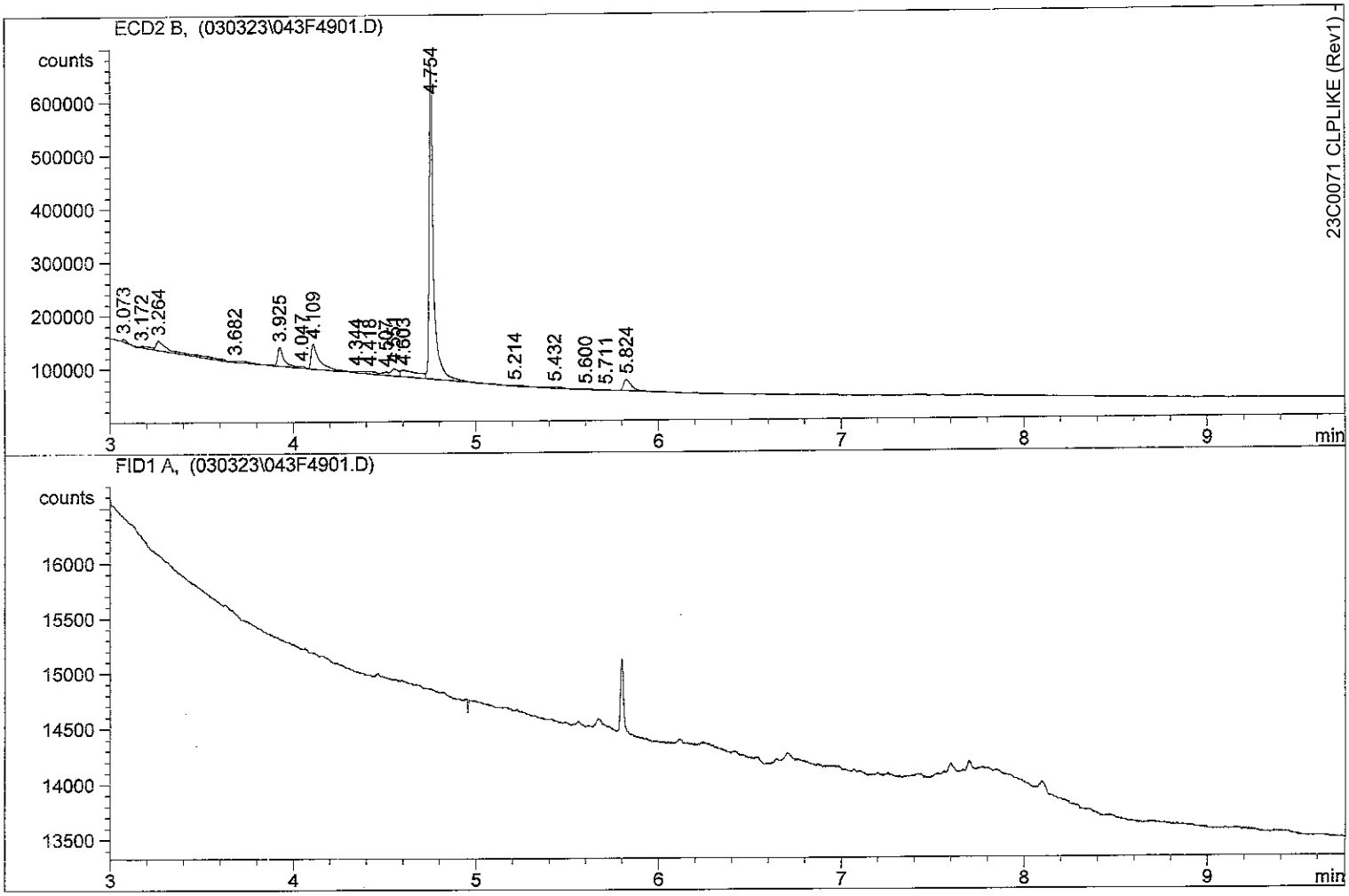


*** End of Report ***

Injection Date : 3/4/2023 4:45:17 AM
Sample Name : 23C0071 08
Acq. Operator : CR

Seq. Line : 49
Location : Vial 43
Inj : 1
Inj Volume : 1 µl

Sequence File : C:\HPCHEM\1\SEQUENCE\030323.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD



*** End of Report ***

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BATCH SUMMARY

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Cleanup Batch:	CLC0113	Cleanup Type:	Silica Gel
Cleanup Method:	EPA 3630C Silica Gel Cleanup - uL	Analysis:	EPA 8082A

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Blank	BLC0124-BLK1	03142318ECD7.D	03/14/2023	
Reference	BLC0124-SRM1	03142321ECD7.D	03/14/2023	
LDW23-SC1036	23C0071-10	03142336ECD7.D	03/14/2023	
Matrix Spike Dup	BLC0124-MSD1	03142338ECD7.D	03/14/2023	
Matrix Spike	BLC0124-MS1	03142337ECD7.D	03/14/2023	
LCS	BLC0124-BS1	03142319ECD7.D	03/14/2023	
LDW23-SS1054	23C0071-06	03142331ECD7.D	03/14/2023	
LDW23-SC1048	23C0071-09	03142335ECD7.D	03/14/2023	
LDW23-SS1037	23C0071-02	03142327ECD7.D	03/14/2023	
LCS Dup	BLC0124-BSD1	03142320ECD7.D	03/14/2023	
LDW23-SS1044	23C0071-04	03142329ECD7.D	03/14/2023	
LDW23-SS1036	23C0071-03	03142328ECD7.D	03/14/2023	
LDW23-SS1000	23C0071-01	03142326ECD7.D	03/14/2023	
LDW23-SC1054	23C0071-08	03142334ECD7.D	03/14/2023	
LDW23-SS1048	23C0071-05	03142330ECD7.D	03/14/2023	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BENCH SHEET

CLC0113

Matrix: Solid **Cleanup using: Organics - EPA 3630C Silica Gel Cleanup - uL** **Printed: 3/14/2023 2:32:19PM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
23C0064-01	A	LY-28_2-3	A 03	2.5	2.5	8082A PCB Solid 4	3/14/2023	LMJ	
23C0064-02	A	LY-31_0-10	A 03	2.5	2.5	8082A PCB Solid 4	3/14/2023	LMJ	
23C0064-03	A	LY-31_1-2	A 03	2.5	2.5	8082A PCB Solid 4	3/14/2023	LMJ	
23C0064-04	A	LY-32_0-10	A 03	2.5	2.5	8082A PCB Solid 4	3/14/2023	LMJ	
23C0071-01	A	LDW23-SS1000	A 03	2.5	2.5	8082A PCB Solid 4	3/14/2023	LMJ	
23C0071-02	A	LDW23-SS1037	A 03	2.5	2.5	8082A PCB Solid 4	3/14/2023	LMJ	
23C0071-03	A	LDW23-SS1036	A 03	2.5	2.5	8082A PCB Solid 4	3/14/2023	LMJ	
23C0071-04	A	LDW23-SS1044	A 03	2.5	2.5	8082A PCB Solid 4	3/14/2023	LMJ	
23C0071-05	A	LDW23-SS1048	A 03	2.5	2.5	8082A PCB Solid 4	3/14/2023	LMJ	
23C0071-06	A	LDW23-SS1054	A 03	2.5	2.5	8082A PCB Solid 4	3/14/2023	LMJ	
23C0071-08	A	LDW23-SC1054	A 01	2.5	2.5	8082A PCB Solid 4	3/14/2023	LMJ	
23C0071-09	A	LDW23-SC1048	A 01	2.5	2.5	8082A PCB Solid 4	3/14/2023	LMJ	
23C0071-10	A	LDW23-SC1036	A 01	2.5	2.5	8082A PCB Solid 4	3/14/2023	LMJ	
BLC0124-BLK1	-	Blank	-	2.5	2.5	-	3/14/2023	LMJ	
BLC0124-BS1	-	LCS	-	2.5	2.5	-	3/14/2023	LMJ	
BLC0124-BSD1	-	LCS Dup	-	2.5	2.5	-	3/14/2023	LMJ	
BLC0124-MS1	-	Matrix Spike	-	2.5	2.5	-	3/14/2023	LMJ	
BLC0124-MSD1	-	Matrix Spike Dup	-	2.5	2.5	-	3/14/2023	LMJ	
BLC0124-SRM1	-	Reference	-	2.5	2.5	-	3/14/2023	LMJ	

CLEANUP BATCH SUMMARY

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Cleanup Batch:	CLC0114	Cleanup Type:	Sulfur
Cleanup Method:	EPA 3660B Sulfur Cleanup - uL	Analysis:	EPA 8082A

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW23-SC1048	23C0071-09	03142335ECD7.D	03/14/2023	
LDW23-SC1054	23C0071-08	03142334ECD7.D	03/14/2023	
LDW23-SS1036	23C0071-03	03142328ECD7.D	03/14/2023	
LCS	BLC0124-BS1	03142319ECD7.D	03/14/2023	
LDW23-SS1044	23C0071-04	03142329ECD7.D	03/14/2023	
LDW23-SS1048	23C0071-05	03142330ECD7.D	03/14/2023	
LDW23-SC1036	23C0071-10	03142336ECD7.D	03/14/2023	
Blank	BLC0124-BLK1	03142318ECD7.D	03/14/2023	
LDW23-SS1000	23C0071-01	03142326ECD7.D	03/14/2023	
Reference	BLC0124-SRM1	03142321ECD7.D	03/14/2023	
Matrix Spike Dup	BLC0124-MSD1	03142338ECD7.D	03/14/2023	
Matrix Spike	BLC0124-MS1	03142337ECD7.D	03/14/2023	
LCS Dup	BLC0124-BSD1	03142320ECD7.D	03/14/2023	
LDW23-SS1054	23C0071-06	03142331ECD7.D	03/14/2023	
LDW23-SS1037	23C0071-02	03142327ECD7.D	03/14/2023	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BENCH SHEET

CLC0114

Matrix: Solid **Cleanup using: Organics - EPA 3660B Sulfur Cleanup - uL** **Printed: 3/14/2023 2:32:55PM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
23C0064-01	A	LY-28_2-3	A 03	2.5	2.5	8082A PCB Solid 4	3/14/2023	LMJ	
23C0064-02	A	LY-31_0-10	A 03	2.5	2.5	8082A PCB Solid 4	3/14/2023	LMJ	
23C0064-03	A	LY-31_1-2	A 03	2.5	2.5	8082A PCB Solid 4	3/14/2023	LMJ	
23C0064-04	A	LY-32_0-10	A 03	2.5	2.5	8082A PCB Solid 4	3/14/2023	LMJ	
23C0071-01	A	LDW23-SS1000	A 03	2.5	2.5	8082A PCB Solid 4	3/14/2023	LMJ	
23C0071-02	A	LDW23-SS1037	A 03	2.5	2.5	8082A PCB Solid 4	3/14/2023	LMJ	
23C0071-03	A	LDW23-SS1036	A 03	2.5	2.5	8082A PCB Solid 4	3/14/2023	LMJ	
23C0071-04	A	LDW23-SS1044	A 03	2.5	2.5	8082A PCB Solid 4	3/14/2023	LMJ	
23C0071-05	A	LDW23-SS1048	A 03	2.5	2.5	8082A PCB Solid 4	3/14/2023	LMJ	
23C0071-06	A	LDW23-SS1054	A 03	2.5	2.5	8082A PCB Solid 4	3/14/2023	LMJ	
23C0071-08	A	LDW23-SC1054	A 01	2.5	2.5	8082A PCB Solid 4	3/14/2023	LMJ	
23C0071-09	A	LDW23-SC1048	A 01	2.5	2.5	8082A PCB Solid 4	3/14/2023	LMJ	
23C0071-10	A	LDW23-SC1036	A 01	2.5	2.5	8082A PCB Solid 4	3/14/2023	LMJ	
BLC0124-BLK1	-	Blank	-	2.5	2.5	-	3/14/2023	LMJ	
BLC0124-BS1	-	LCS	-	2.5	2.5	-	3/14/2023	LMJ	
BLC0124-BSD1	-	LCS Dup	-	2.5	2.5	-	3/14/2023	LMJ	
BLC0124-MS1	-	Matrix Spike	-	2.5	2.5	-	3/14/2023	LMJ	
BLC0124-MSD1	-	Matrix Spike Dup	-	2.5	2.5	-	3/14/2023	LMJ	
BLC0124-SRM1	-	Reference	-	2.5	2.5	-	3/14/2023	LMJ	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BATCH SUMMARY

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Cleanup Batch:	CLC0115	Cleanup Type:	Sulfuric Acid
Cleanup Method:	EPA 3665 Sulfuric Acid Cleanup - uL	Analysis:	EPA 8082A

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW23-SC1036	23C0071-10	03142336ECD7.D	03/14/2023	
LDW23-SS1054	23C0071-06	03142331ECD7.D	03/14/2023	
Blank	BLC0124-BLK1	03142318ECD7.D	03/14/2023	
LCS	BLC0124-BS1	03142319ECD7.D	03/14/2023	
LCS Dup	BLC0124-BSD1	03142320ECD7.D	03/14/2023	
Matrix Spike	BLC0124-MS1	03142337ECD7.D	03/14/2023	
LDW23-SS1048	23C0071-05	03142330ECD7.D	03/14/2023	
LDW23-SS1044	23C0071-04	03142329ECD7.D	03/14/2023	
LDW23-SS1037	23C0071-02	03142327ECD7.D	03/14/2023	
LDW23-SS1036	23C0071-03	03142328ECD7.D	03/14/2023	
LDW23-SS1000	23C0071-01	03142326ECD7.D	03/14/2023	
LDW23-SC1054	23C0071-08	03142334ECD7.D	03/14/2023	
LDW23-SC1048	23C0071-09	03142335ECD7.D	03/14/2023	
Reference	BLC0124-SRM1	03142321ECD7.D	03/14/2023	
Matrix Spike Dup	BLC0124-MSD1	03142338ECD7.D	03/14/2023	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BENCH SHEET

CLC0115

Matrix: Solid **Cleanup using: Organics - EPA 3665 Sulfuric Acid Cleanup - uL** **Printed: 3/14/2023 2:33:32PM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
23C0064-01	A	LY-28_2-3	A 03	2.5	2.5	8082A PCB Solid 4	3/14/2023	LMJ	
23C0064-02	A	LY-31_0-10	A 03	2.5	2.5	8082A PCB Solid 4	3/14/2023	LMJ	
23C0064-03	A	LY-31_1-2	A 03	2.5	2.5	8082A PCB Solid 4	3/14/2023	LMJ	
23C0064-04	A	LY-32_0-10	A 03	2.5	2.5	8082A PCB Solid 4	3/14/2023	LMJ	
23C0071-01	A	LDW23-SS1000	A 03	2.5	2.5	8082A PCB Solid 4	3/14/2023	LMJ	
23C0071-02	A	LDW23-SS1037	A 03	2.5	2.5	8082A PCB Solid 4	3/14/2023	LMJ	
23C0071-03	A	LDW23-SS1036	A 03	2.5	2.5	8082A PCB Solid 4	3/14/2023	LMJ	
23C0071-04	A	LDW23-SS1044	A 03	2.5	2.5	8082A PCB Solid 4	3/14/2023	LMJ	
23C0071-05	A	LDW23-SS1048	A 03	2.5	2.5	8082A PCB Solid 4	3/14/2023	LMJ	
23C0071-06	A	LDW23-SS1054	A 03	2.5	2.5	8082A PCB Solid 4	3/14/2023	LMJ	
23C0071-08	A	LDW23-SC1054	A 01	2.5	2.5	8082A PCB Solid 4	3/14/2023	LMJ	
23C0071-09	A	LDW23-SC1048	A 01	2.5	2.5	8082A PCB Solid 4	3/14/2023	LMJ	
23C0071-10	A	LDW23-SC1036	A 01	2.5	2.5	8082A PCB Solid 4	3/14/2023	LMJ	
BLC0124-BLK1	-	Blank	-	2.5	2.5	-	3/14/2023	LMJ	
BLC0124-BS1	-	LCS	-	2.5	2.5	-	3/14/2023	LMJ	
BLC0124-BSD1	-	LCS Dup	-	2.5	2.5	-	3/14/2023	LMJ	
BLC0124-MS1	-	Matrix Spike	-	2.5	2.5	-	3/14/2023	LMJ	
BLC0124-MSD1	-	Matrix Spike Dup	-	2.5	2.5	-	3/14/2023	LMJ	
BLC0124-SRM1	-	Reference	-	2.5	2.5	-	3/14/2023	LMJ	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I

METHOD BLANK DATA SHEET

EPA 8082A

Blank

Laboratory:	Analytical Resources, LLC			SDG:	23C0071
Client:	Anchor QEA, LLC			Project:	AOC5 MR Phase 1
Matrix:	Solid	Laboratory ID:	BLC0124-BLK1	File ID:	03142318ECD7.D
Sampled:	N/A	Prepared:	03/07/23 13:30	Analyzed:	03/14/23 15:24
Solids:		Preparation:	EPA 3546 (Microwave)	Initial/Final:	12.5 g / 2.5 mL
Batch:	BLC0124	Sequence:	SLC0203	Calibration:	GB00069
Instrument:	ECD7	Column:	ZB5	Cleanups:	Silica Gel, Sulfur, Sulfuric Acid

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg wet)	Q	DL	RL
12674-11-2	Aroclor 1016	1	4.0	U	1.6	4.0
11104-28-2	Aroclor 1221	1	4.0	U	1.6	4.0
11141-16-5	Aroclor 1232	1	4.0	U	1.6	4.0
53469-21-9	Aroclor 1242	1	4.0	U	1.6	4.0
12672-29-6	Aroclor 1248	1	4.0	U	1.6	4.0
11097-69-1	Aroclor 1254	1	4.0	U	1.6	4.0
11096-82-5	Aroclor 1260	1	4.0	U	0.6	4.0

SURROGATES	ADDED: (ug/kg wet)	FOUND: (ug/kg wet)	% REC	QC LIMITS	Q
Decachlorobiphenyl	8.0000	7.97	99.6	40 - 126	
Tetrachlorometaxylene	8.0000	6.83	85.3	44 - 120	
Decachlorobiphenyl [2C]	8.0000	7.94	99.3	40 - 126	
Tetrachlorometaxylene [2C]	8.0000	6.58	82.2	44 - 120	

[2C] indicates second-column analyte, present if quantification on any batch samples used second column data.

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

BLC0124

Data file 1: /230314.b/03142318ECD7.D
Data file 2: /230314.b/230314.b/03142318ECD7.D
Method: \\target\share\chem4\ecd7.i\230314.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BLC0~~12~~3-BLK1
Client ID:
Injection Date: 14-MAR-2023 15:24
Report Date: 03/14/2023 16:24
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.807	0.000	239087	5.688	-0.002	185926	34.1	32.9	3.7	Tetrachloro-m-xylene
13.894	0.000	272606	14.119	0.000	300670	39.8	39.7	0.3	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	469052	-30.4
Hexabromobiphenyl	1429847	694888	-51.4 <-

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	385225	22.2
Hexabromobiphenyl	513946	497244	-3.2

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	ZB5 Col Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	---			0.0	1	---			0.0
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	---			0.0
Aroclor-1248	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1254	1	---			0.0	1	---			0.0
Aroclor-1254	2	---			0.0	2	---			0.0
Aroclor-1254	3	---			0.0	3	---			0.0
Aroclor-1254	4	---			0.0	4	---			0.0
Aroclor-1254	5	---			0.0	5	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1260	1	---			0.0	1	---			0.0
Aroclor-1260	2	---			0.0	2	---			0.0
Aroclor-1260	3	---			0.0	3	---			0.0
Aroclor-1260	4	---			0.0	4	---			0.0
Aroclor-1260	5	---			0.0	NS	---			----
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.907 - 13.793) = 34045 Col1 Total PCB = 0.0 ppm*

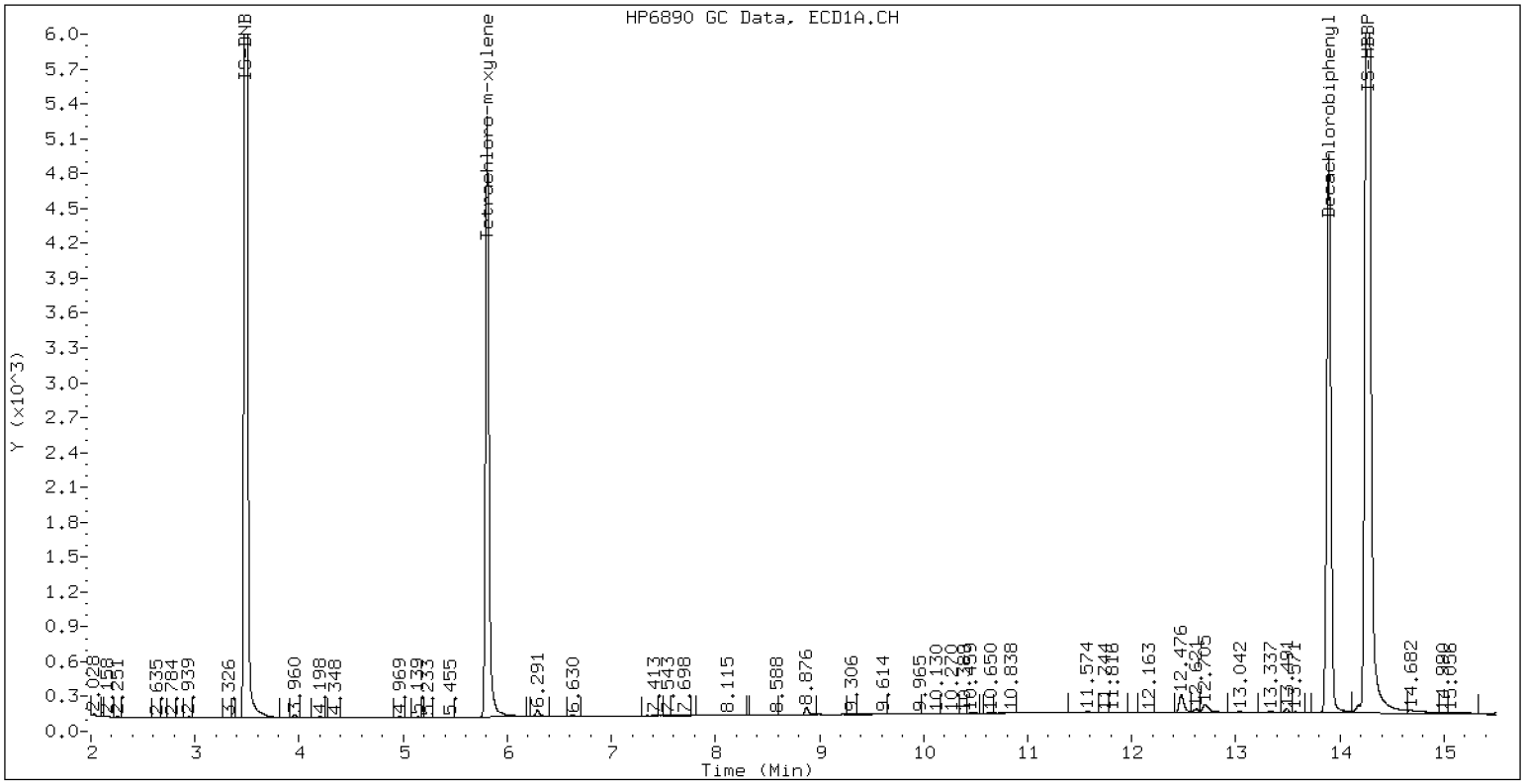
Total PCB Area Col2 (5.790 - 14.019) = 24651 Col2 Total PCB = 0.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

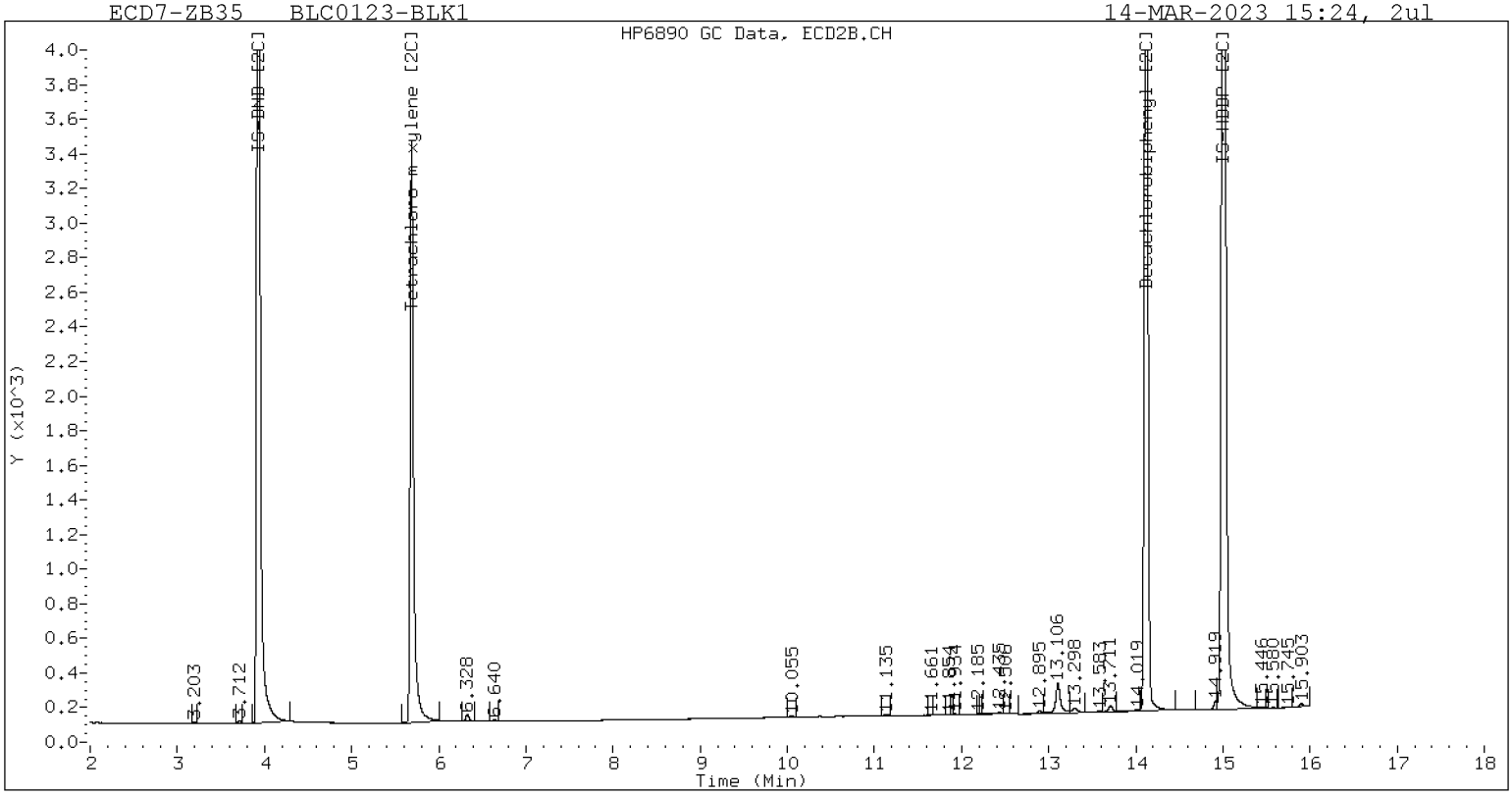
PCB Dual Column Chromatograms

ECD7-ZB5 BLC0123-BLK1 14-MAR-2023 15:24, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 BLC0123-BLK1 14-MAR-2023 15:24, 2ul



ZB-35 Manual Integration: NO

LCS / LCS DUPLICATE RECOVERY

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Matrix:	Solid	Analyzed:	03/14/23 15:45
Batch:	BLC0124	Laboratory ID:	BLC0124-BS1
Preparation:	EPA 3546 (Microwave)	Sequence Name:	LCS
Initial/Final:	12.5 g / 2.5 mL		

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	Q	LCS % REC. #	QC LIMITS REC.
Aroclor 1016	101	78.3		77.7	56 - 120
Aroclor 1260	101	113		112	58 - 120

* Indicates values outside of QC limits

COMPOUND	SPIKE ADDED (ug/kg wet)	LCSD CONCENTRATION (ug/kg wet)	Q	LCSD % REC. #	% RPD #	QC LIMITS	
						RPD	REC.
Aroclor 1016	101	75.5		74.9	3.74	30	56 - 120
Aroclor 1260	101	108		108	4.30	30	58 - 120

* Indicates values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

BLC0124

Data file 1: /230314.b/03142319ECD7.D
Data file 2: /230314.b/230314.b/03142319ECD7.D
Method: \\target\share\chem4\ecd7.i\230314.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BLC0123-BS1
Client ID:
Injection Date: 14-MAR-2023 15:45
Report Date: 03/14/2023 16:17
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.807	0.001	235241	5.689	0.001	172068	32.8	29.9	9.2	Tetrachloro-m-xylene
13.893	-0.000	286269	14.119	-0.000	317419	38.3	38.5	0.5	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	480282	-28.7
Hexabromobiphenyl	1429847	758464	-47.0

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	391878	24.3
Hexabromobiphenyl	513946	540905	5.2

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.269	-0.001	69506	381.0	1	7.255	-0.001	81526	355.4
Aroclor-1016	2	7.656	-0.006	224453	403.6	2	7.860	-0.007	186197	400.3
Aroclor-1016	3	7.792	-0.003	104647	385.5	3	8.059	-0.005	79213	377.0
Aroclor-1016	4	8.406	-0.004	69602	396.6	4	8.308	-0.003	62141	377.0
Total Col1Ave (4 peaks):					391.7	Total Col2Ave (4 peaks):				377.4 RPD = 4
Corrected Ave (3 peaks):					387.7	Corrected Ave (3 peaks):				369.8 RPD = 5
Aroclor-1221	1	4.732	0.001	353	8.2	1	---			0.0
Aroclor-1221	2	6.130	-0.002	7897	102.7	2	6.300	0.004	7798	111.1
Aroclor-1221	3	6.382	-0.000	41783	233.9	3	6.624	0.002	35960	314.6
Total Col1Ave (3 peaks):					114.9	Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	4.732	0.002	353	13.7	1	---			0.0
Aroclor-1232	2	6.130	-0.001	7897	154.8	2	7.255	0.001	81526	818.2
Aroclor-1232	3	7.656	-0.000	224453	971.7	3	7.860	-0.001	186197	934.6
Aroclor-1232	4	8.580	-0.001	88805	904.5	4	8.714	-0.000	59124	1031.2
Total Col1Ave (4 peaks):					511.2	Total Col2Ave (3 peaks):				928.0 RPD = 58*
Corrected Ave (3 peaks):					357.7	Corrected Ave: < 3 Peaks				
Aroclor-1242	1	7.269	-0.001	69506	467.0	1	7.255	-0.000	81526	447.8
Aroclor-1242	2	7.656	-0.000	224453	496.6	2	7.860	-0.007	186197	486.5
Aroclor-1242	3	8.406	0.000	69602	494.9	3	9.168	-0.009	11727	98.5
Aroclor-1242	4	8.580	0.000	88805	427.2	4	9.591	-0.018	4804	33.1
Total Col1Ave (4 peaks):					471.4	Total Col2Ave (4 peaks):				266.5 RPD = 56*
Corrected Ave (3 peaks):					463.0	Corrected Ave (3 peaks):				193.1 RPD = 82*
Aroclor-1248	1	8.406	-0.003	69602	297.0	1	8.308	0.000	62141	332.1
Aroclor-1248	2	8.580	-0.004	88805	298.1	2	8.714	0.000	59124	305.6
Aroclor-1248	3	8.993	-0.003	97372	173.3	3	9.168	0.002	11727	52.7
Aroclor-1248	4	9.301	0.011	77445	270.7	4	9.591	0.001	4804	18.0
Total Col1Ave (4 peaks):					259.8	Total Col2Ave (4 peaks):				177.1 RPD = 38
Corrected Ave (3 peaks):					247.0	Corrected Ave (3 peaks):				125.4 RPD = 65*
Aroclor-1254	1	9.301	0.002	77445	160.6	1	9.452	-0.003	54893	184.3
Aroclor-1254	2	---			0.0	2	9.972	-0.002	12648	52.8
Aroclor-1254	3	9.670	0.002	14374	46.4	3	10.147	0.017	115561	222.9
Aroclor-1254	4	9.808	0.001	41492	68.8	4	10.372	-0.006	149499	295.8
Aroclor-1254	5	10.120	-0.057	197689	523.2	5	10.569	-0.005	201745	655.6
Total Col1Ave (4 peaks):					199.7	Total Col2Ave (5 peaks):				282.3 RPD = 34
Corrected Ave (3 peaks):					91.9	Corrected Ave (4 peaks):				188.9 RPD = 69*
Aroclor-1260	1	11.045	-0.004	162396	595.2	1	11.654	-0.002	147289	463.1
Aroclor-1260	2	11.362	-0.003	165408	580.2	2	11.919	-0.002	372784	459.3
Aroclor-1260	3	11.735	-0.005	415854	550.0	3	12.436	-0.002	97574	453.0
Aroclor-1260	4	12.140	-0.007	214214	562.6	4	12.503	-0.003	246299	450.2
Aroclor-1260	5	12.244	-0.002	88878	542.3	NS	---			----
Total Col1Ave (5 peaks):					566.1	Total Col2Ave (4 peaks):				456.4 RPD = 21
Corrected Ave (4 peaks):					558.8	Corrected Ave (3 peaks):				454.1 RPD = 21
Aroclor-1262	1	10.827	-0.002	318226	1367.7	1	11.201	0.001	142111	307.7
Aroclor-1262	2	12.244	0.000	88878	234.8	2	11.654	0.003	147289	374.4
Aroclor-1262	3	12.319	0.001	106865	262.6	3	12.436	0.003	97574	218.6
Aroclor-1262	4	12.989	0.001	94564	254.2	4	12.503	0.001	246299	352.3
Total Col1Ave (4 peaks):					529.8	Total Col2Ave (4 peaks):				313.3 RPD = 51*
Corrected Ave (3 peaks):					250.5	Corrected Ave (3 peaks):				292.9 RPD = 16
Aroclor-1268	1	12.244	-0.002	88878	91.5	1	12.436	0.004	97574	89.6
Aroclor-1268	2	12.319	0.002	106865	111.0	2	12.503	0.003	246299	210.3
Aroclor-1268	3	12.723	0.024	67676	82.2	3	12.892	-0.000	7952	8.0
Aroclor-1268	4	13.488	-0.002	25477	9.4	4	13.708	-0.001	28862	9.0
Total Col1Ave (4 peaks):					73.5	Total Col2Ave (4 peaks):				79.2 RPD = 7
Corrected Ave (3 peaks):					61.0	Corrected Ave (3 peaks):				35.5 RPD = 53*

Total PCB Area Col1 (5.907 - 13.793) = 4437080 Col1 Total PCB = 0.8 ppm*

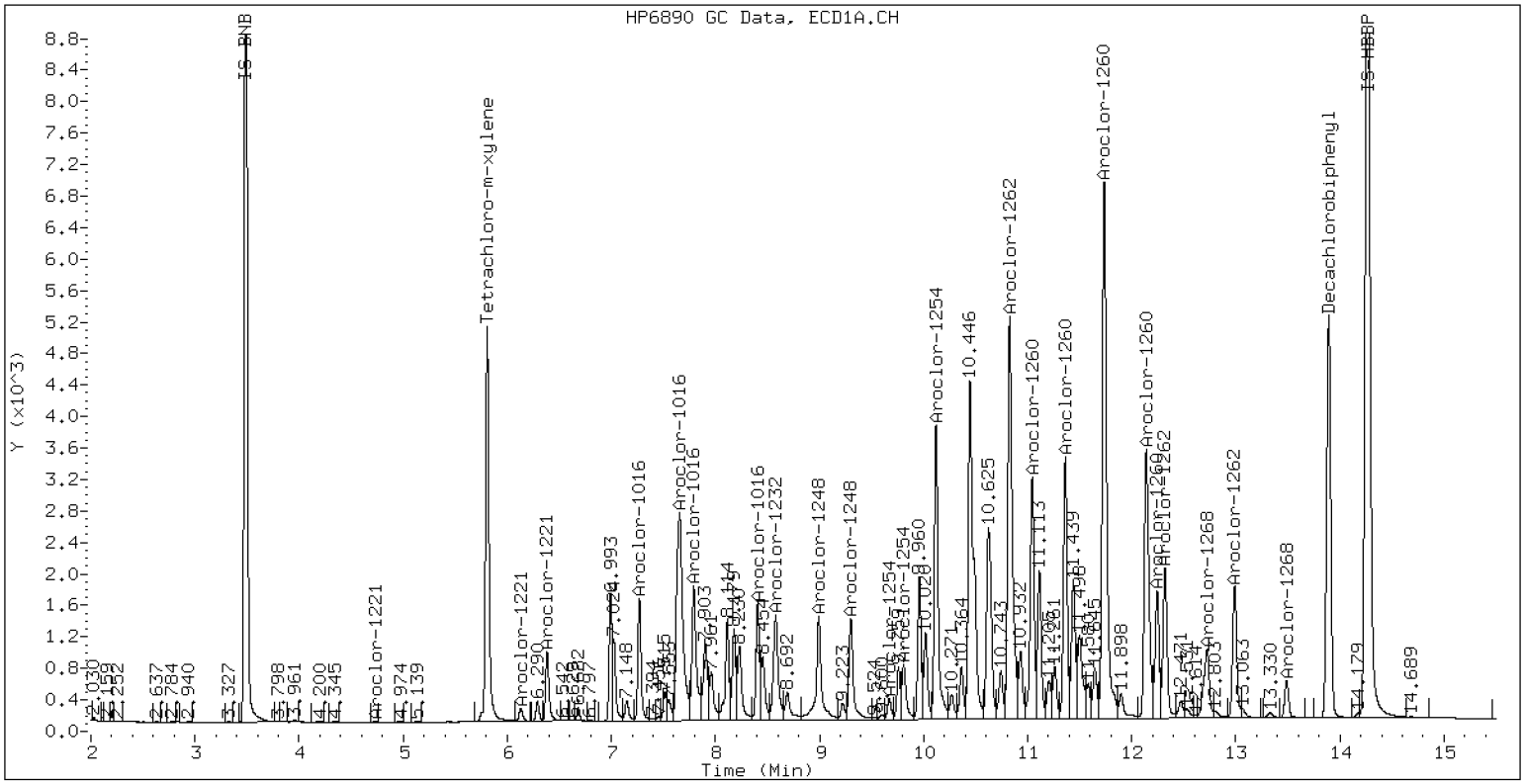
Total PCB Area Col2 (5.788 - 14.019) = 3578937 Col2 Total PCB = 0.8 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

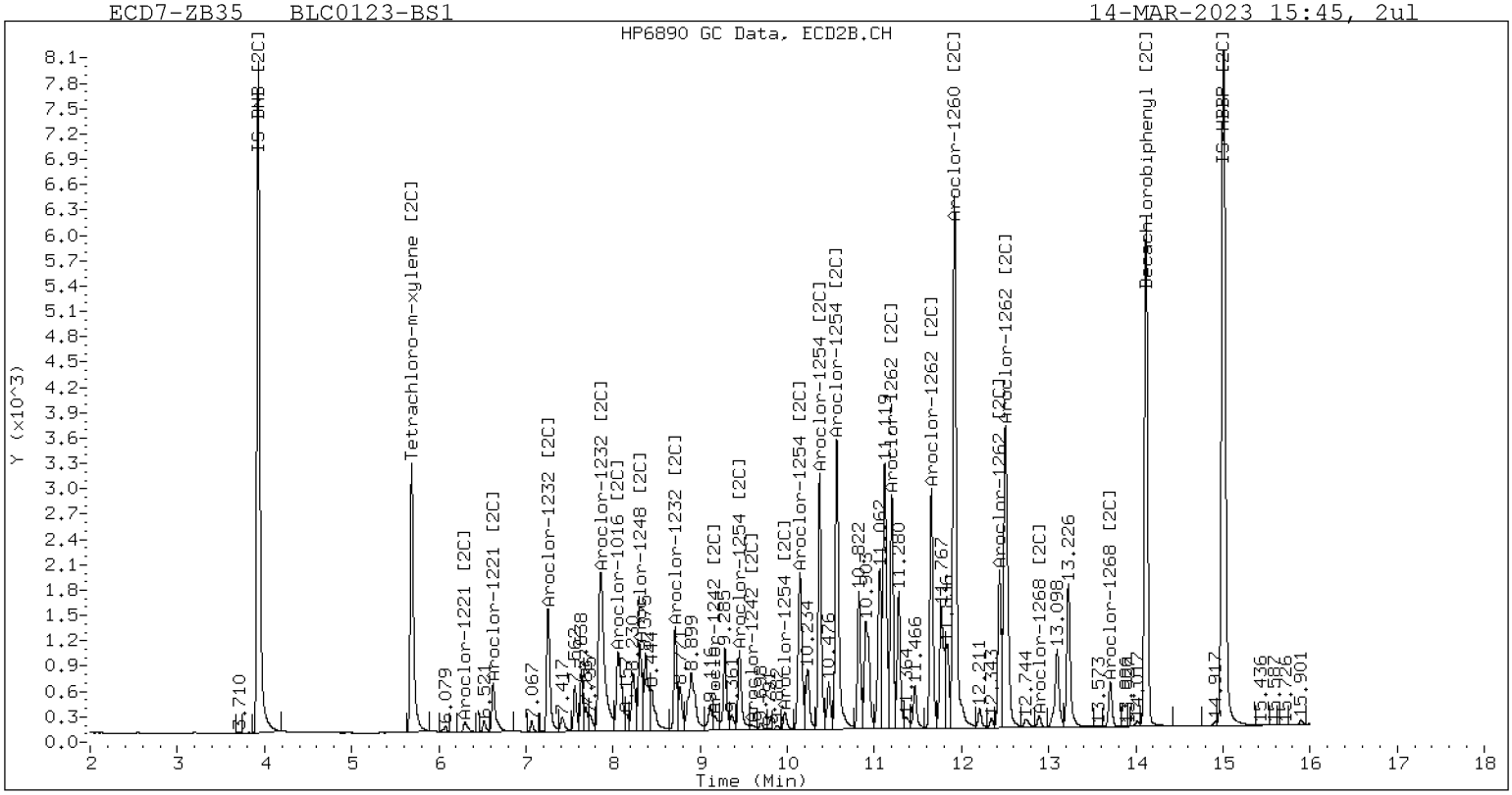
PCB Dual Column Chromatograms

ECD7-ZB5 BLC0123-BS1 14-MAR-2023 15:45, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 BLC0123-BS1 14-MAR-2023 15:45, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

BLC0124

Data file 1: /230314.b/03142320ECD7.D
Data file 2: /230314.b/230314.b/03142320ECD7.D
Method: \\target\share\chem4\ecd7.i\230314.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BLC01~~23~~-BSD1
Client ID:
Injection Date: 14-MAR-2023 16:06
Report Date: 03/14/2023 16:40
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.807	-0.000	225720	5.689	-0.001	166346	31.0	28.6	7.7	Tetrachloro-m-xylene
13.892	-0.002	293176	14.117	-0.002	326050	36.8	37.6	2.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	488354	-27.5
Hexabromobiphenyl	1429847	808973	-43.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	395768	25.5
Hexabromobiphenyl	513946	569500	10.8

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.269	-0.002	67896	366.0	1	7.254	-0.002	79477	343.0
Aroclor-1016	2	7.655	-0.008	219872	388.8	2	7.860	-0.009	182033	387.5
Aroclor-1016	3	7.791	-0.005	102228	370.4	3	8.058	-0.010	77876	367.0
Aroclor-1016	4	8.404	-0.004	68513	384.0	4	8.308	-0.004	60955	366.1
Total Col1Ave (4 peaks):					377.3	Total Col2Ave (4 peaks):				365.9 RPD = 3
Corrected Ave (3 peaks):					373.5	Corrected Ave (3 peaks):				358.7 RPD = 4
Aroclor-1221	1	4.729	-0.002	461	10.5	1	---			0.0
Aroclor-1221	2	6.130	-0.002	8251	105.5	2	6.299	0.003	7556	106.6
Aroclor-1221	3	6.382	-0.000	42136	232.0	3	6.624	0.002	34909	302.4
Total Col1Ave (3 peaks):					116.0	Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	4.729	-0.001	461	17.6	1	---			0.0
Aroclor-1232	2	6.130	-0.001	8251	159.0	2	7.254	0.001	79477	789.8
Aroclor-1232	3	7.655	-0.001	219872	936.1	3	7.860	-0.001	182033	904.7
Aroclor-1232	4	8.579	-0.002	87813	879.6	4	8.714	-0.001	57899	999.9
Total Col1Ave (4 peaks):					498.1	Total Col2Ave (3 peaks):				898.1 RPD = 57*
Corrected Ave (3 peaks):					352.1	Corrected Ave: < 3 Peaks				
Aroclor-1242	1	7.269	-0.002	67896	448.6	1	7.254	-0.002	79477	432.2
Aroclor-1242	2	7.655	-0.009	219872	478.4	2	7.860	-0.009	182033	470.9
Aroclor-1242	3	8.404	-0.005	68513	479.1	3	9.167	-0.013	11782	98.0
Aroclor-1242	4	8.579	-0.007	87813	415.4	4	9.588	-0.024	4583	31.3
Total Col1Ave (4 peaks):					455.4	Total Col2Ave (4 peaks):				258.1 RPD = 55*
Corrected Ave (3 peaks):					447.5	Corrected Ave (3 peaks):				187.2 RPD = 82*
Aroclor-1248	1	8.404	-0.004	68513	287.5	1	8.308	-0.004	60955	322.6
Aroclor-1248	2	8.579	-0.005	87813	289.9	2	8.714	-0.004	57899	296.3
Aroclor-1248	3	8.992	-0.004	97134	170.0	3	9.167	-0.012	11782	52.4
Aroclor-1248	4	9.300	0.010	76256	262.1	4	9.588	-0.014	4583	17.0
Total Col1Ave (4 peaks):					252.4	Total Col2Ave (4 peaks):				172.1 RPD = 38
Corrected Ave (3 peaks):					239.9	Corrected Ave (3 peaks):				121.9 RPD = 65*
Aroclor-1254	1	9.300	-0.002	76256	155.5	1	9.451	-0.002	54341	180.6
Aroclor-1254	2	---			0.0	2	9.972	-0.001	12483	51.6
Aroclor-1254	3	9.668	-0.004	14205	45.1	3	10.147	0.019	115801	221.2
Aroclor-1254	4	9.806	-0.005	40965	66.8	4	10.371	-0.005	149875	293.6
Aroclor-1254	5	10.119	-0.062	196979	512.7	5	10.569	-0.004	202927	653.0
Total Col1Ave (4 peaks):					195.0	Total Col2Ave (5 peaks):				280.0 RPD = 36
Corrected Ave (3 peaks):					89.1	Corrected Ave (4 peaks):				186.8 RPD = 71*
Aroclor-1260	1	11.043	-0.005	164189	564.2	1	11.655	-0.002	151358	452.0
Aroclor-1260	2	11.362	-0.003	169972	559.0	2	11.919	-0.005	380687	445.4
Aroclor-1260	3	11.735	-0.005	426504	528.9	3	12.436	-0.004	93378	411.7
Aroclor-1260	4	12.139	-0.006	219661	540.9	4	12.502	-0.005	231319	401.5
Aroclor-1260	5	12.244	-0.003	90586	518.2	NS	---			----
Total Col1Ave (5 peaks):					542.2	Total Col2Ave (4 peaks):				427.7 RPD = 24
Corrected Ave (4 peaks):					536.7	Corrected Ave (3 peaks):				419.6 RPD = 25
Aroclor-1262	1	10.827	-0.001	317252	1278.4	1	11.200	0.000	144511	297.2
Aroclor-1262	2	12.244	0.000	90586	224.3	2	11.655	0.003	151358	365.5
Aroclor-1262	3	12.319	0.000	109692	252.7	3	12.436	0.002	93378	198.7
Aroclor-1262	4	12.988	0.001	97984	247.0	4	12.502	0.000	231319	314.2
Total Col1Ave (4 peaks):					500.6	Total Col2Ave (4 peaks):				293.9 RPD = 52*
Corrected Ave (3 peaks):					241.3	Corrected Ave (3 peaks):				270.0 RPD = 11
Aroclor-1268	1	12.244	-0.002	90586	87.4	1	12.436	0.004	93378	81.4
Aroclor-1268	2	12.319	0.002	109692	106.9	2	12.502	0.002	231319	187.6
Aroclor-1268	3	12.720	0.021	55339	63.0	3	12.891	-0.000	7674	7.3
Aroclor-1268	4	13.486	-0.004	22100	7.6	4	13.708	-0.001	30067	8.9
Total Col1Ave (4 peaks):					66.2	Total Col2Ave (4 peaks):				71.3 RPD = 7
Corrected Ave (3 peaks):					52.7	Corrected Ave (3 peaks):				32.6 RPD = 47*

Total PCB Area Col1 (5.907 - 13.794) = 4493203 Col1 Total PCB = 0.8 ppm*

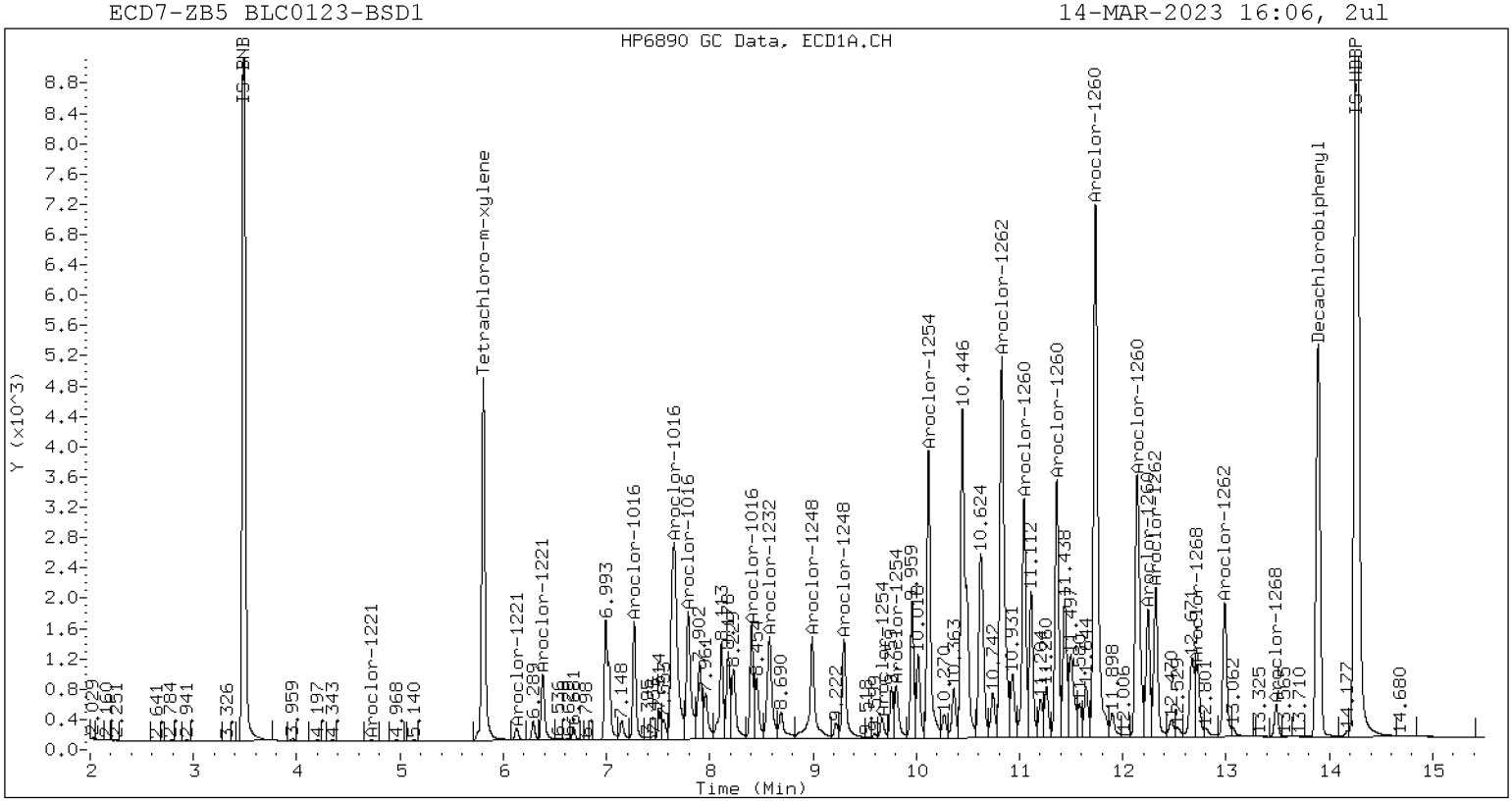
Total PCB Area Col2 (5.790 - 14.019) = 3610399 Col2 Total PCB = 0.8 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

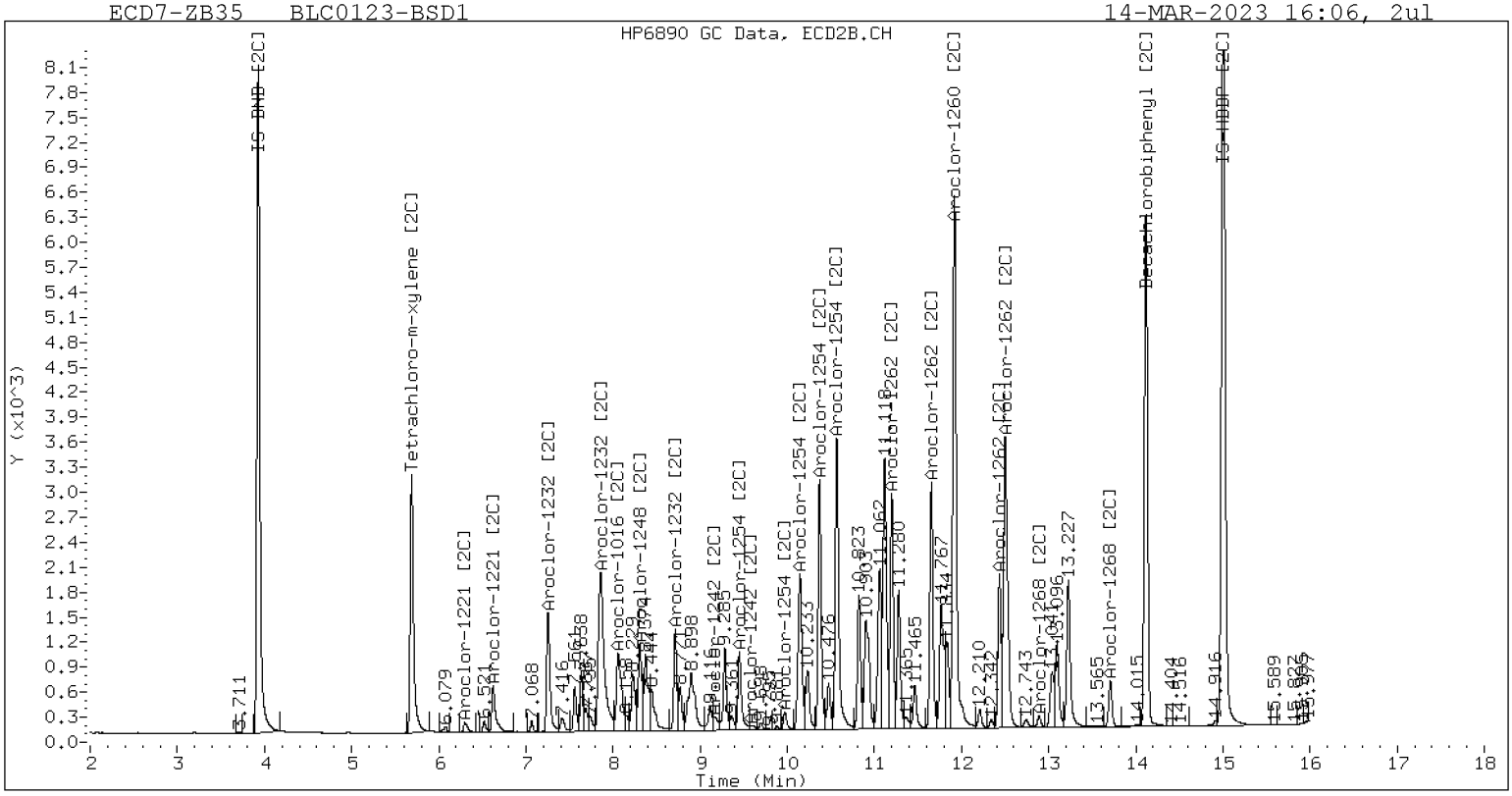
PCB Dual Column Chromatograms

ECD7-ZB5 BLC0123-BSD1 14-MAR-2023 16:06, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 BLC0123-BSD1 14-MAR-2023 16:06, 2ul



ZB-35 Manual Integration: NO

MS / MS DUPLICATE RECOVERY
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Matrix:	Solid	Analyzed:	03/14/23 22:01
Batch:	BLC0124	Laboratory ID:	BLC0124-MS1
Preparation:	EPA 3546 (Microwave)	Sequence Name:	Matrix Spike
Initial/Final:	21.31 g / 2.5 mL	Source Sample:	LDW23-SC1036

COMPOUND	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	Q	MS CONCENTRATION (ug/kg dry)	Q	MS % REC. #	QC LIMITS REC.
Aroclor 1016	101	ND	U	70.4		69.7	56 - 120
Aroclor 1260 [2C]	101	35.3		104		68.6	58 - 120

* Values outside of QC limits

[2C] indicates second-column analyte, present if quantification on any batch samples used second column data.

MS / MS DUPLICATE RECOVERY
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Matrix:	Solid	Analyzed:	03/14/23 22:22
Batch:	BLC0124	Laboratory ID:	BLC0124-MSD1
Preparation:	EPA 3546 (Microwave)	Sequence Name:	Matrix Spike Dup
Initial/Final:	21.31 g / 2.5 mL	Source Sample:	LDW23-SC1036

COMPOUND	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	Q	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aroclor 1016	101	68.4		67.7	3.01	30	56 - 120
Aroclor 1260 [2C]	101	100		64.3	4.27	30	58 - 120

* Values outside of QC limits

[2C] indicates second-column analyte, present if quantification on any batch samples used second column data.

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230314.b/03142337ECD7.D
Data file 2: /230314.b/230314.b/03142337ECD7.D
Method: \\target\share\chem4\ecd7.i\230314.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BLC0123-MS1
Client ID:
Injection Date: 14-MAR-2023 22:01
Report Date: 03/15/2023 09:29
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.805	-0.002	182015	5.684	-0.004	147809	27.3	27.3	0.2	Tetrachloro-m-xylene
13.886	-0.008	139686	14.111	-0.008	180786	34.4	31.9	7.4	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	446587	-33.7
Hexabromobiphenyl	1429847	412496	-71.2 <-

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	369647	17.3
Hexabromobiphenyl	513946	371828	-27.7

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.265	-0.005	57968	341.8	1	7.249	-0.007	71154	328.8
Aroclor-1016	2	7.644	-0.018	201510	389.7	2	7.844	-0.023	161872	368.9
Aroclor-1016	3	7.781	-0.014	70716	280.1	3	8.043	-0.024	61059	308.1
Aroclor-1016	4	8.397	-0.012	64798	397.1	4	8.299	-0.013	56107	360.8
Total Col1Ave (4 peaks):					352.2	Total Col2Ave (4 peaks):				341.7 RPD = 3
Corrected Ave (3 peaks):					337.2	Corrected Ave (3 peaks):				332.6 RPD = 1
Aroclor-1221	1	4.729	-0.002	243	6.1	1	4.944	-0.012	1681	48.0
Aroclor-1221	2	6.127	-0.005	7218	100.9	2	6.295	-0.002	6691	101.0
Aroclor-1221	3	6.378	-0.004	37700	227.0	3	6.618	-0.004	34759	322.4
Total Col1Ave (3 peaks):					111.3	Total Col2Ave (3 peaks):				157.2 RPD = 34
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1232	1	4.729	-0.001	243	10.2	1	4.944	-0.012	1681	88.9
Aroclor-1232	2	6.127	-0.004	7218	152.1	2	7.249	-0.004	71154	757.1
Aroclor-1232	3	7.644	-0.012	201510	938.2	3	7.844	-0.016	161872	861.4
Aroclor-1232	4	8.566	-0.014	68457	749.9	4	8.704	-0.010	55727	1030.4
Total Col1Ave (4 peaks):					462.6	Total Col2Ave (4 peaks):				684.4 RPD = 39
Corrected Ave (3 peaks):					304.1	Corrected Ave (3 peaks):				569.1 RPD = 61*
Aroclor-1242	1	7.265	-0.005	57968	418.9	1	7.249	-0.007	71154	414.3
Aroclor-1242	2	7.644	-0.020	201510	479.5	2	7.844	-0.025	161872	448.4
Aroclor-1242	3	8.397	-0.012	64798	495.5	3	9.216	0.036	29112	259.2
Aroclor-1242	4	8.566	-0.020	68457	354.1	4	9.687	0.075	15303	111.8
Total Col1Ave (4 peaks):					437.0	Total Col2Ave (4 peaks):				308.4 RPD = 34
Corrected Ave (3 peaks):					417.5	Corrected Ave (3 peaks):				261.8 RPD = 46*
Aroclor-1248	1	8.397	-0.012	64798	297.4	1	8.299	-0.011	56107	317.9
Aroclor-1248	2	8.566	-0.018	68457	247.2	2	8.704	-0.013	55727	305.4
Aroclor-1248	3	8.984	-0.014	89231	170.8	3	9.216	0.041	29112	138.6
Aroclor-1248	4	9.286	-0.009	98639	370.8	4	9.533	-0.071	51036	202.4
Total Col1Ave (4 peaks):					271.5	Total Col2Ave (4 peaks):				241.1 RPD = 12
Corrected Ave (3 peaks):					238.4	Corrected Ave (3 peaks):				215.5 RPD = 10
Aroclor-1254	1	9.286	-0.017	98639	220.0	1	9.437	-0.018	77356	275.3
Aroclor-1254	2	9.361	-0.021	26892	133.3	2	9.955	-0.020	34807	154.0
Aroclor-1254	3	9.657	-0.017	62521	216.9	3	10.106	-0.025	148641	303.9
Aroclor-1254	4	9.786	-0.028	126293	225.3	4	10.356	-0.023	187969	394.3
Aroclor-1254	5	10.242	0.053	33525	95.4	5	10.553	-0.020	178267	614.2
Total Col1Ave (5 peaks):					178.2	Total Col2Ave (5 peaks):				348.3 RPD = 65*
Corrected Ave (4 peaks):					166.4	Corrected Ave (4 peaks):				281.9 RPD = 52*
Aroclor-1260	1	11.032	-0.016	102563	691.2	1	11.642	-0.014	116227	531.6
Aroclor-1260	2	11.347	-0.018	92596	597.2	2	11.903	-0.019	268948	482.0
Aroclor-1260	3	11.719	-0.022	251851	612.5	3	12.422	-0.018	88458	597.4
Aroclor-1260	4	12.120	-0.027	134161	647.9	4	12.487	-0.019	179534	477.3
Aroclor-1260	5	12.233	-0.014	54129	607.3	NS	---			----
Total Col1Ave (5 peaks):					631.2	Total Col2Ave (4 peaks):				522.1 RPD = 19
Corrected Ave (4 peaks):					616.2	Corrected Ave (3 peaks):				497.0 RPD = 21
Aroclor-1262	1	10.807	-0.022	269134	2126.9	1	11.188	-0.012	97548	307.3
Aroclor-1262	2	12.233	-0.011	54129	262.9	2	11.642	-0.010	116227	429.8
Aroclor-1262	3	12.307	-0.012	65620	296.4	3	12.422	-0.012	88458	288.3
Aroclor-1262	4	12.974	-0.014	62600	309.4	4	12.487	-0.015	179534	373.5
Total Col1Ave (4 peaks):					748.9	Total Col2Ave (4 peaks):				349.7 RPD = 73*
Corrected Ave (3 peaks):					289.6	Corrected Ave (3 peaks):				323.0 RPD = 11
Aroclor-1268	1	12.233	-0.014	54129	102.4	1	12.422	-0.010	88458	118.1
Aroclor-1268	2	12.307	-0.010	65620	125.4	2	12.487	-0.013	179534	223.0
Aroclor-1268	3	12.709	0.010	41029	91.6	3	12.883	-0.008	7016	10.2
Aroclor-1268	4	13.478	-0.012	21155	14.3	4	13.698	-0.011	28041	12.8
Total Col1Ave (4 peaks):					83.4	Total Col2Ave (4 peaks):				91.0 RPD = 9

Corrected Ave (3 peaks): 69.5 Corrected Ave (3 peaks): 47.0 RPD = 38

Total PCB Area Col1 (5.907 - 13.795) = 3791252 Col1 Total PCB = 0.7 ppm*

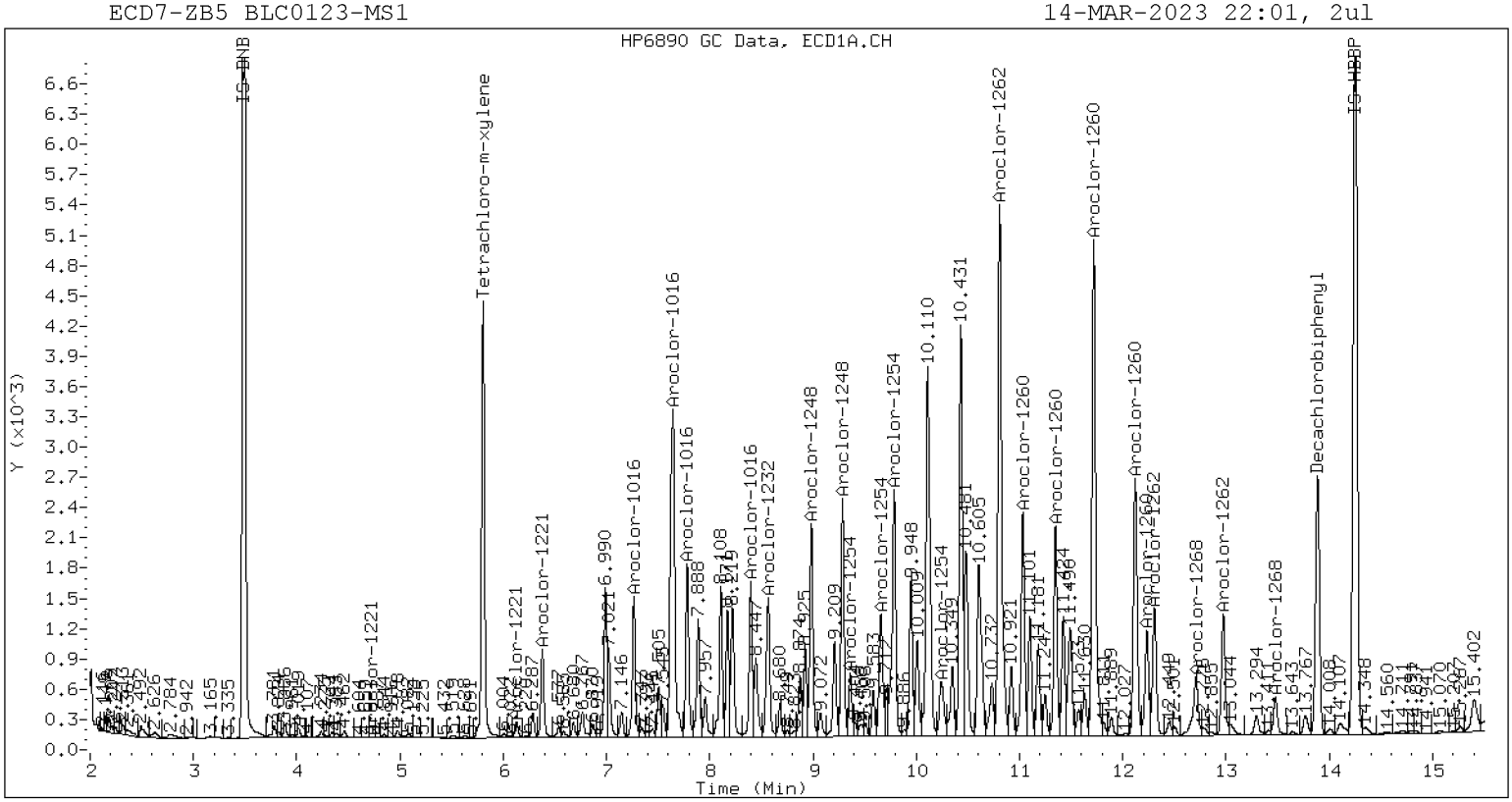
Total PCB Area Col2 (5.788 - 14.019) = 3482205 Col2 Total PCB = 0.8 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

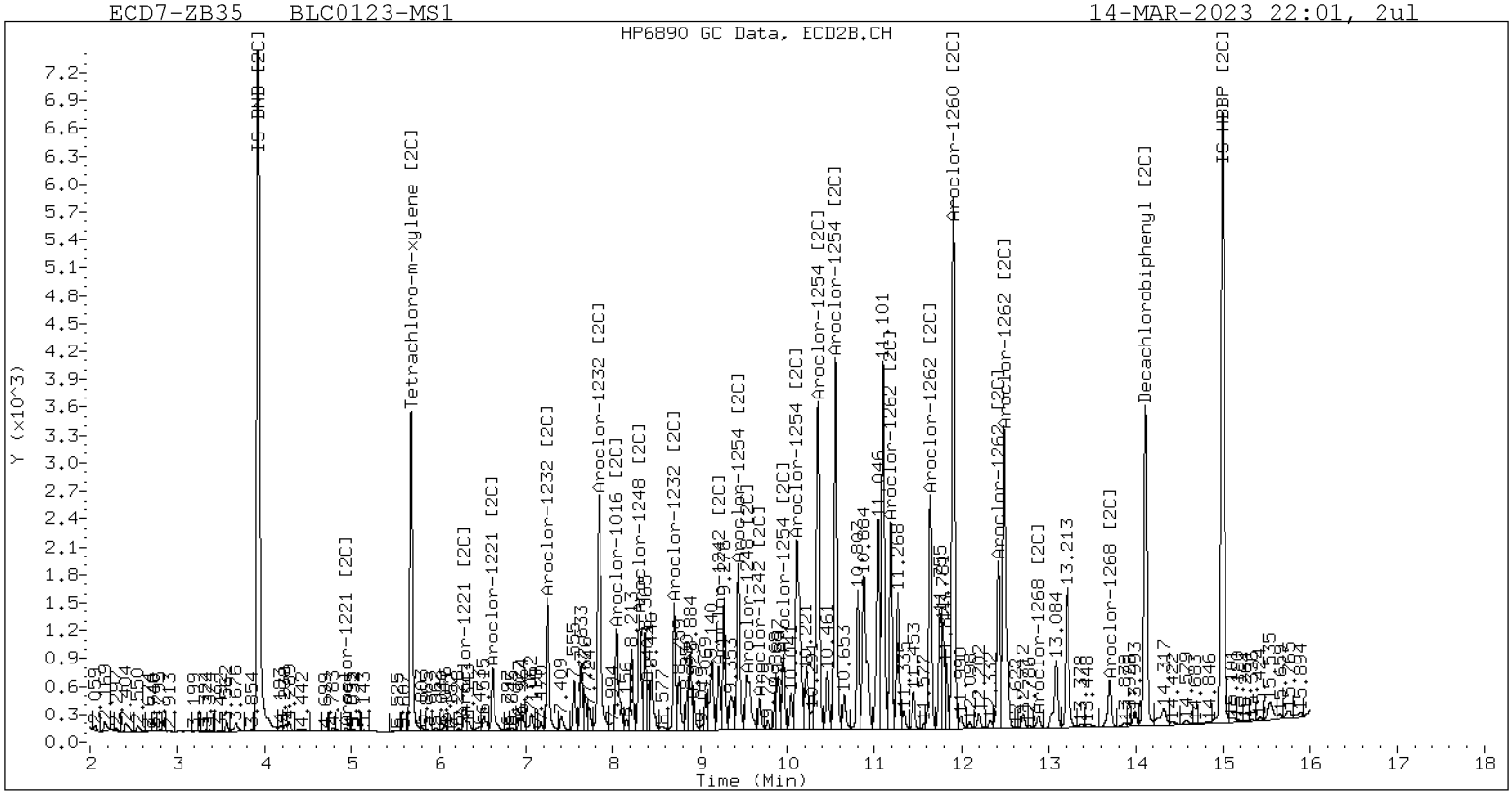
PCB Dual Column Chromatograms

ECD7-ZB5 BLC0123-MS1 14-MAR-2023 22:01, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 BLC0123-MS1 14-MAR-2023 22:01, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230314.b/03142338ECD7.D
Data file 2: /230314.b/230314.b/03142338ECD7.D
Method: \\target\share\chem4\ecd7.i\230314.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BLC0123-MSD1
Client ID:
Injection Date: 14-MAR-2023 22:22
Report Date: 03/15/2023 09:29
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.804	-0.003	179168	5.683	-0.005	148008	26.2	26.6	1.3	Tetrachloro-m-xylene
13.886	-0.009	138929	14.112	-0.007	179320	33.3	31.2	6.6	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	457422	-32.1
Hexabromobiphenyl	1429847	423605	-70.4 <-

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	379627	20.4
Hexabromobiphenyl	513946	377592	-26.5

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.264	-0.006	58540	336.9	1	7.249	-0.007	71869	323.4
Aroclor-1016	2	7.644	-0.018	201873	381.1	2	7.843	-0.024	162284	360.1
Aroclor-1016	3	7.781	-0.015	70437	272.4	3	8.043	-0.024	60886	299.1
Aroclor-1016	4	8.396	-0.013	62902	376.4	4	8.299	-0.013	54659	342.3
Total Col1Ave (4 peaks):					341.7	Total Col2Ave (4 peaks):				331.2 RPD = 3
Corrected Ave (3 peaks):					328.6	Corrected Ave (3 peaks):				321.6 RPD = 2
Aroclor-1221	1	4.727	-0.004	253	6.2	1	4.943	-0.013	2866	79.7
Aroclor-1221	2	6.127	-0.005	7591	103.6	2	6.295	-0.002	7263	106.8
Aroclor-1221	3	6.378	-0.004	40741	239.5	3	6.617	-0.005	36462	329.3
Total Col1Ave (3 peaks):					116.4	Total Col2Ave (3 peaks):				171.9 RPD = 39
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1232	1	4.727	-0.003	253	10.3	1	4.943	-0.013	2866	147.6
Aroclor-1232	2	6.127	-0.004	7591	156.2	2	7.249	-0.005	71869	744.6
Aroclor-1232	3	7.644	-0.012	201873	917.6	3	7.843	-0.017	162284	840.9
Aroclor-1232	4	8.566	-0.015	67005	716.6	4	8.704	-0.011	54617	983.3
Total Col1Ave (4 peaks):					450.2	Total Col2Ave (4 peaks):				679.1 RPD = 41*
Corrected Ave (3 peaks):					294.4	Corrected Ave (3 peaks):				577.7 RPD = 65*
Aroclor-1242	1	7.264	-0.006	58540	413.0	1	7.249	-0.007	71869	407.5
Aroclor-1242	2	7.644	-0.020	201873	468.9	2	7.843	-0.026	162284	437.7
Aroclor-1242	3	8.396	-0.013	62902	469.6	3	9.216	0.036	28898	250.5
Aroclor-1242	4	8.566	-0.020	67005	338.4	4	9.558	-0.054	25249	179.6
Total Col1Ave (4 peaks):					422.5	Total Col2Ave (4 peaks):				318.8 RPD = 28
Corrected Ave (3 peaks):					406.8	Corrected Ave (3 peaks):				279.2 RPD = 37
Aroclor-1248	1	8.396	-0.013	62902	281.8	1	8.299	-0.011	54659	301.6
Aroclor-1248	2	8.566	-0.018	67005	236.2	2	8.704	-0.013	54617	291.4
Aroclor-1248	3	8.984	-0.015	86166	161.0	3	9.216	0.040	28898	134.0
Aroclor-1248	4	9.286	-0.008	93489	343.1	4	9.558	-0.046	25249	97.5
Total Col1Ave (4 peaks):					255.5	Total Col2Ave (4 peaks):				206.1 RPD = 21
Corrected Ave (3 peaks):					226.3	Corrected Ave (3 peaks):				174.3 RPD = 26
Aroclor-1254	1	9.286	-0.016	93489	203.5	1	9.437	-0.018	73698	255.4
Aroclor-1254	2	9.361	-0.021	30394	147.1	2	9.955	-0.020	32000	137.9
Aroclor-1254	3	9.657	-0.018	59274	200.7	3	10.107	-0.025	142439	283.6
Aroclor-1254	4	9.786	-0.028	119458	208.0	4	10.358	-0.022	189256	386.6
Aroclor-1254	5	10.241	0.052	35973	100.0	5	10.553	-0.021	175793	589.7
Total Col1Ave (5 peaks):					171.9	Total Col2Ave (5 peaks):				330.6 RPD = 63*
Corrected Ave (4 peaks):					162.8	Corrected Ave (4 peaks):				265.9 RPD = 48*
Aroclor-1260	1	11.033	-0.016	102512	672.7	1	11.642	-0.014	112473	506.6
Aroclor-1260	2	11.347	-0.018	92391	580.3	2	11.903	-0.019	264190	466.2
Aroclor-1260	3	11.719	-0.022	249673	591.2	3	12.422	-0.018	85036	565.5
Aroclor-1260	4	12.119	-0.027	132963	625.3	4	12.487	-0.019	176707	462.6
Aroclor-1260	5	12.234	-0.013	53280	582.1	NS	---			----
Total Col1Ave (5 peaks):					610.3	Total Col2Ave (4 peaks):				500.2 RPD = 20
Corrected Ave (4 peaks):					594.7	Corrected Ave (3 peaks):				478.5 RPD = 22
Aroclor-1262	1	10.807	-0.022	263756	2029.7	1	11.188	-0.012	95986	297.7
Aroclor-1262	2	12.234	-0.010	53280	252.0	2	11.642	-0.009	112473	409.6
Aroclor-1262	3	12.307	-0.012	64568	284.0	3	12.422	-0.011	85036	272.9
Aroclor-1262	4	12.974	-0.013	61147	294.3	4	12.487	-0.015	176707	362.0
Total Col1Ave (4 peaks):					715.0	Total Col2Ave (4 peaks):				335.6 RPD = 72*
Corrected Ave (3 peaks):					276.8	Corrected Ave (3 peaks):				310.9 RPD = 12
Aroclor-1268	1	12.234	-0.012	53280	98.2	1	12.422	-0.010	85036	111.8
Aroclor-1268	2	12.307	-0.010	64568	120.1	2	12.487	-0.013	176707	216.2
Aroclor-1268	3	12.708	0.009	39440	85.8	3	12.883	-0.009	7043	10.1
Aroclor-1268	4	13.477	-0.013	20931	13.8	4	13.697	-0.012	27085	12.1
Total Col1Ave (4 peaks):					79.5	Total Col2Ave (4 peaks):				87.6 RPD = 10

Corrected Ave (3 peaks): 65.9 Corrected Ave (3 peaks): 44.7 RPD = 38

Total PCB Area Col1 (5.907 - 13.795) = 3735500 Col1 Total PCB = 0.7 ppm*

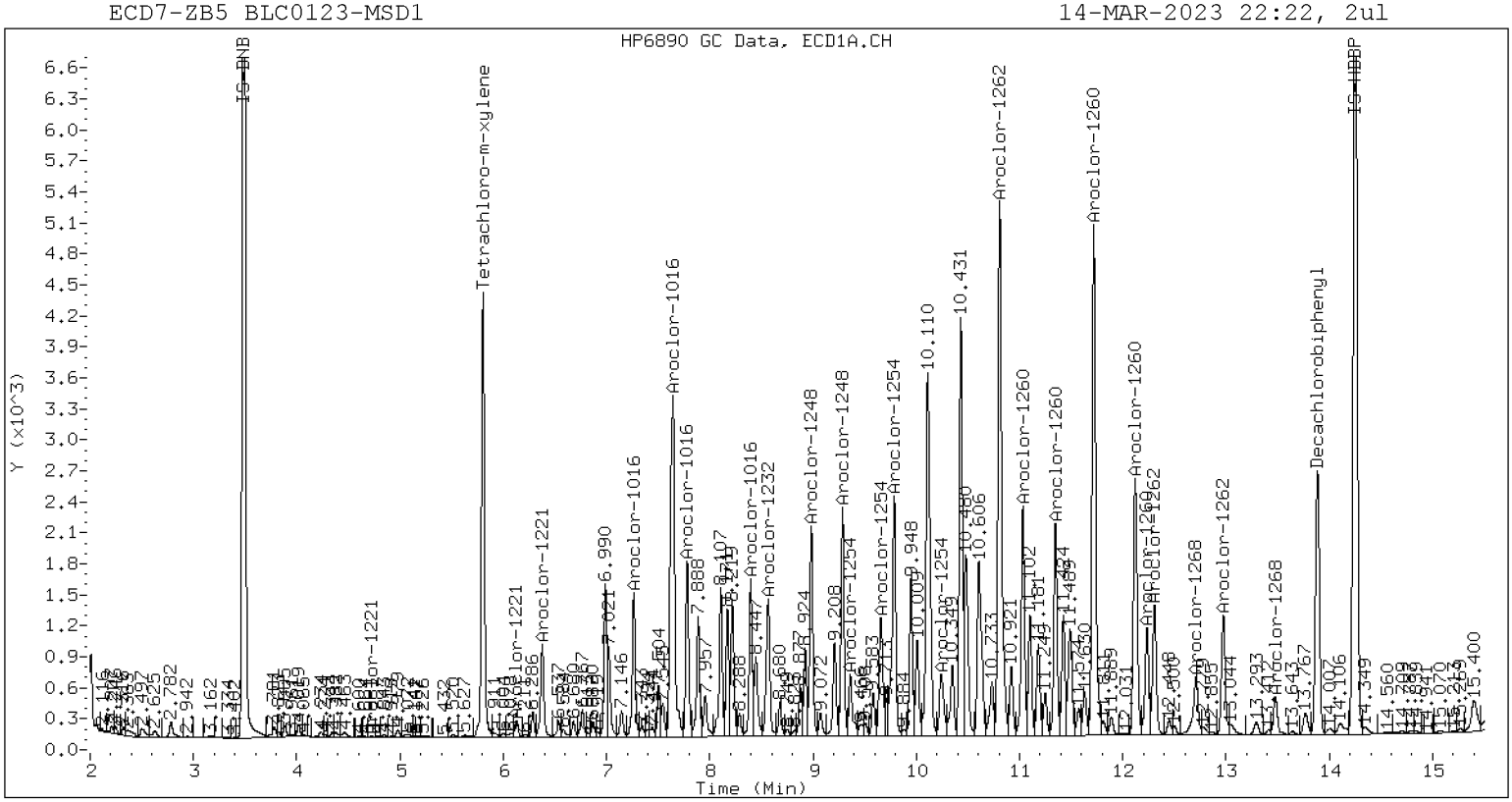
Total PCB Area Col2 (5.788 - 14.019) = 3415238 Col2 Total PCB = 0.8 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

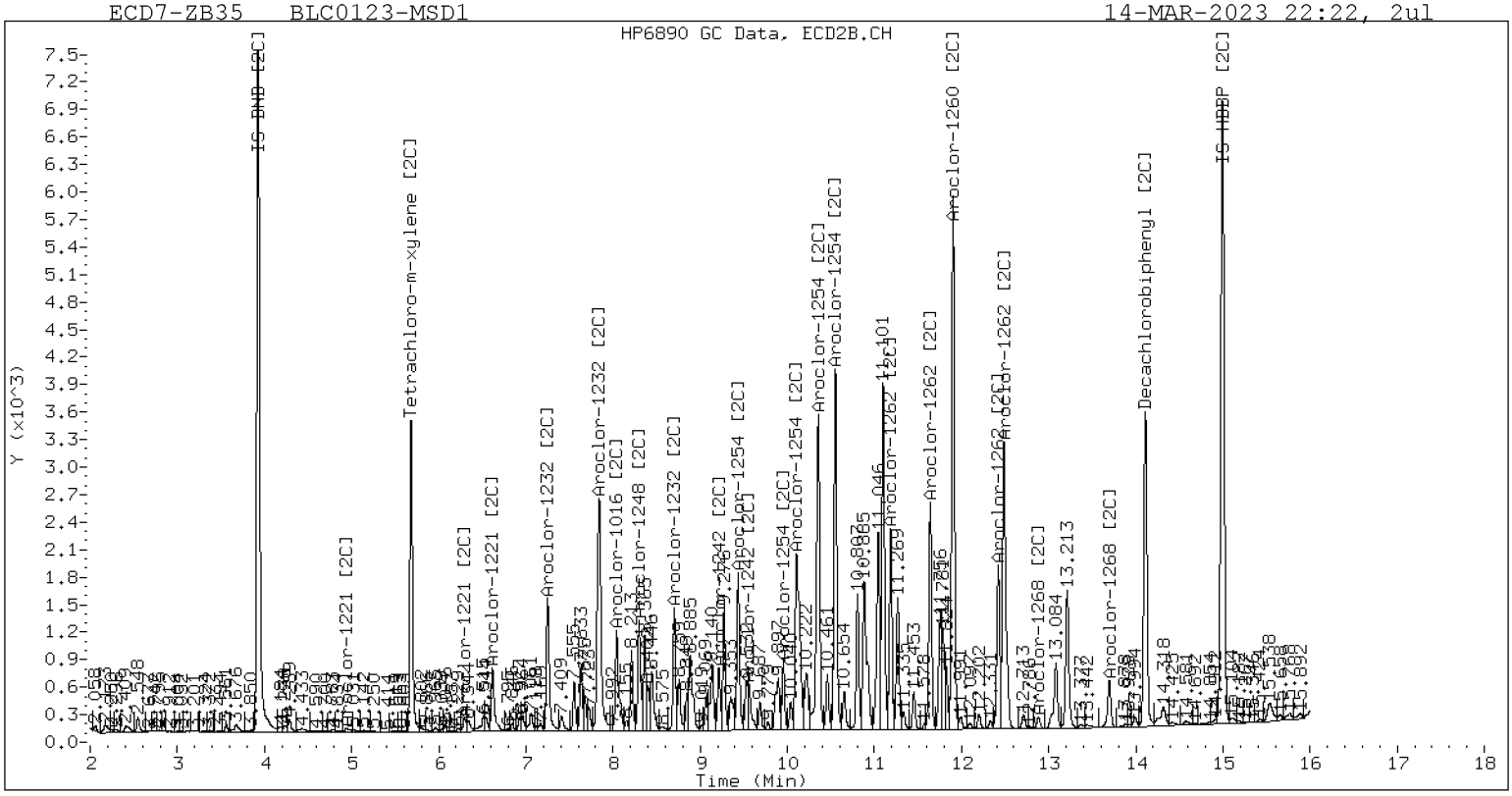
PCB Dual Column Chromatograms

ECD7-ZB5 BLC0123-MSD1 14-MAR-2023 22:22, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 BLC0123-MSD1 14-MAR-2023 22:22, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

STANDARD REFERENCE MATERIAL RECOVERY

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Matrix: Solid
Laboratory ID: BLC0124-SRM1
Batch: BLC0124
Initial/Final: 2.5 g / 2.5 mL
Preparation: EPA 3546 (Microwave)
Analyzed: 03/14/2023 16:27
Standard ID: K003527
Expires: 04/12/2023
Standard Lot#: PSRM0150
Description: Puget Sound reference-SRM

ANALYTE	TRUE (ug/kg wet)	FOUND (ug/kg wet)	MDL	MRL	Q	SRM % REC.	QC LIMITS REC.
Aroclor 1260	108.00	133	2.9	20.0		123	38 - 167
Aroclor 1260 [2C]	108.00	111	2.9	20.0		103	38 - 167

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

BLC0124

Data file 1: /230314.b/03142321ECD7.D
Data file 2: /230314.b/230314.b/03142321ECD7.D
Method: \\target\share\chem4\ecd7.i\230314.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BLC0~~123~~-SRM1
Client ID:
Injection Date: 14-MAR-2023 16:27
Report Date: 03/14/2023 17:27
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.806	-0.002	210638	5.687	-0.003	164060	29.4	29.6	0.6	Tetrachloro-m-xylene
13.887	-0.007	212136	14.114	-0.005	241955	34.9	31.9	9.2	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	479121	-28.9
Hexabromobiphenyl	1429847	616918	-56.9 <-

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	377331	19.7
Hexabromobiphenyl	513946	498712	-3.0

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.237	-0.033	19564	107.5	1	7.269	0.013	14356	65.0
Aroclor-1016	2	7.650	-0.013	7820	14.1	2	7.854	-0.015	6066	13.5
Aroclor-1016	3	7.802	0.006	5763	21.3	3	8.052	-0.016	1377	6.8
Aroclor-1016	4	8.402	-0.007	6786	38.8	4	8.304	-0.007	6843	43.1
Total Col1Ave (4 peaks):					45.4	Total Col2Ave (4 peaks):				32.1 RPD = 34
Corrected Ave (3 peaks):					24.7	Corrected Ave (3 peaks):				21.2 RPD = 16
Aroclor-1221	1	4.735	0.004	474	11.0	1	4.944	-0.013	783	21.9
Aroclor-1221	2	6.065	-0.067	11728	152.8	2	6.351	0.055	23328	345.1
Aroclor-1221	3	6.394	0.012	2291	12.9	3	6.641	0.019	8745	79.5
Total Col1Ave (3 peaks):					58.9	Total Col2Ave (3 peaks):				148.8 RPD = 87*
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1232	1	4.735	0.005	474	18.5	1	4.944	-0.013	783	40.6
Aroclor-1232	2	6.065	-0.066	11728	230.4	2	7.269	0.015	14356	149.6
Aroclor-1232	3	7.650	-0.006	7820	33.9	3	7.854	-0.007	6066	31.6
Aroclor-1232	4	8.573	-0.008	6007	61.3	4	8.711	-0.004	4811	87.1
Total Col1Ave (4 peaks):					86.0	Total Col2Ave (4 peaks):				77.2 RPD = 11
Corrected Ave (3 peaks):					37.9	Corrected Ave (3 peaks):				53.1 RPD = 33
Aroclor-1242	1	7.237	-0.033	19564	131.8	1	7.269	0.013	14356	81.9
Aroclor-1242	2	7.650	-0.014	7820	17.3	2	7.854	-0.015	6066	16.5
Aroclor-1242	3	8.402	-0.007	6786	48.4	3	9.152	-0.028	6110	53.3
Aroclor-1242	4	8.573	-0.013	6007	29.0	4	9.573	-0.039	5342	38.2
Total Col1Ave (4 peaks):					56.6	Total Col2Ave (4 peaks):				47.5 RPD = 18
Corrected Ave (3 peaks):					31.6	Corrected Ave (3 peaks):				36.0 RPD = 13
Aroclor-1248	1	8.402	-0.006	6786	29.0	1	8.304	-0.007	6843	38.0
Aroclor-1248	2	8.573	-0.011	6007	20.2	2	8.711	-0.007	4811	25.8
Aroclor-1248	3	8.989	-0.007	19116	34.1	3	9.152	-0.027	6110	28.5
Aroclor-1248	4	9.291	0.002	26606	93.2	4	9.573	-0.030	5342	20.8
Total Col1Ave (4 peaks):					44.1	Total Col2Ave (4 peaks):				28.3 RPD = 44*
Corrected Ave (3 peaks):					27.8	Corrected Ave (3 peaks):				25.0 RPD = 10
Aroclor-1254	1	9.291	-0.010	26606	55.3	1	9.445	-0.008	19423	67.7
Aroclor-1254	2	9.367	-0.013	9586	44.3	2	9.963	-0.011	9264	40.2
Aroclor-1254	3	9.661	-0.012	15471	50.0	3	10.118	-0.010	38762	77.6
Aroclor-1254	4	9.794	-0.017	39174	65.1	4	10.363	-0.014	49212	101.1
Aroclor-1254	5	10.113	-0.067	56851	150.8	5	10.559	-0.013	49811	168.1
Total Col1Ave (5 peaks):					73.1	Total Col2Ave (5 peaks):				91.0 RPD = 22
Corrected Ave (4 peaks):					53.7	Corrected Ave (4 peaks):				71.7 RPD = 29
Aroclor-1260	1	11.036	-0.012	33717	151.9	1	11.647	-0.010	35335	120.5
Aroclor-1260	2	11.349	-0.015	27472	118.5	2	11.909	-0.014	77611	103.7
Aroclor-1260	3	11.722	-0.018	82390	134.0	3	12.428	-0.012	24452	123.1
Aroclor-1260	4	12.125	-0.020	42920	138.6	4	12.492	-0.015	49055	97.2
Aroclor-1260	5	12.237	-0.010	16296	122.2	NS	---			----
Total Col1Ave (5 peaks):					133.0	Total Col2Ave (4 peaks):				111.1 RPD = 18
Corrected Ave (4 peaks):					128.3	Corrected Ave (3 peaks):				107.1 RPD = 18
Aroclor-1262	1	10.814	-0.015	75596	399.5	1	11.193	-0.007	30948	72.7
Aroclor-1262	2	12.237	-0.007	16296	52.9	2	11.647	-0.004	35335	97.4
Aroclor-1262	3	12.310	-0.008	20243	61.1	3	12.428	-0.006	24452	59.4
Aroclor-1262	4	12.976	-0.011	21822	72.1	4	12.492	-0.010	49055	76.1
Total Col1Ave (4 peaks):					146.4	Total Col2Ave (4 peaks):				76.4 RPD = 63*
Corrected Ave (3 peaks):					62.1	Corrected Ave (3 peaks):				69.4 RPD = 11
Aroclor-1268	1	12.237	-0.010	16296	20.6	1	12.428	-0.004	24452	24.3
Aroclor-1268	2	12.310	-0.007	20243	25.9	2	12.492	-0.008	49055	45.4
Aroclor-1268	3	12.657	-0.042	64900	96.9	3	12.888	-0.003	1828	2.0
Aroclor-1268	4	13.481	-0.009	4696	2.1	4	13.702	-0.007	8049	2.7
Total Col1Ave (4 peaks):					36.4	Total Col2Ave (4 peaks):				18.6 RPD = 65*

Corrected Ave (3 peaks): 16.2 Corrected Ave (3 peaks): 9.7 RPD = 50*

Total PCB Area Col1 (5.907 - 13.794) = 1150289 Col1 Total PCB = 0.2 ppm*

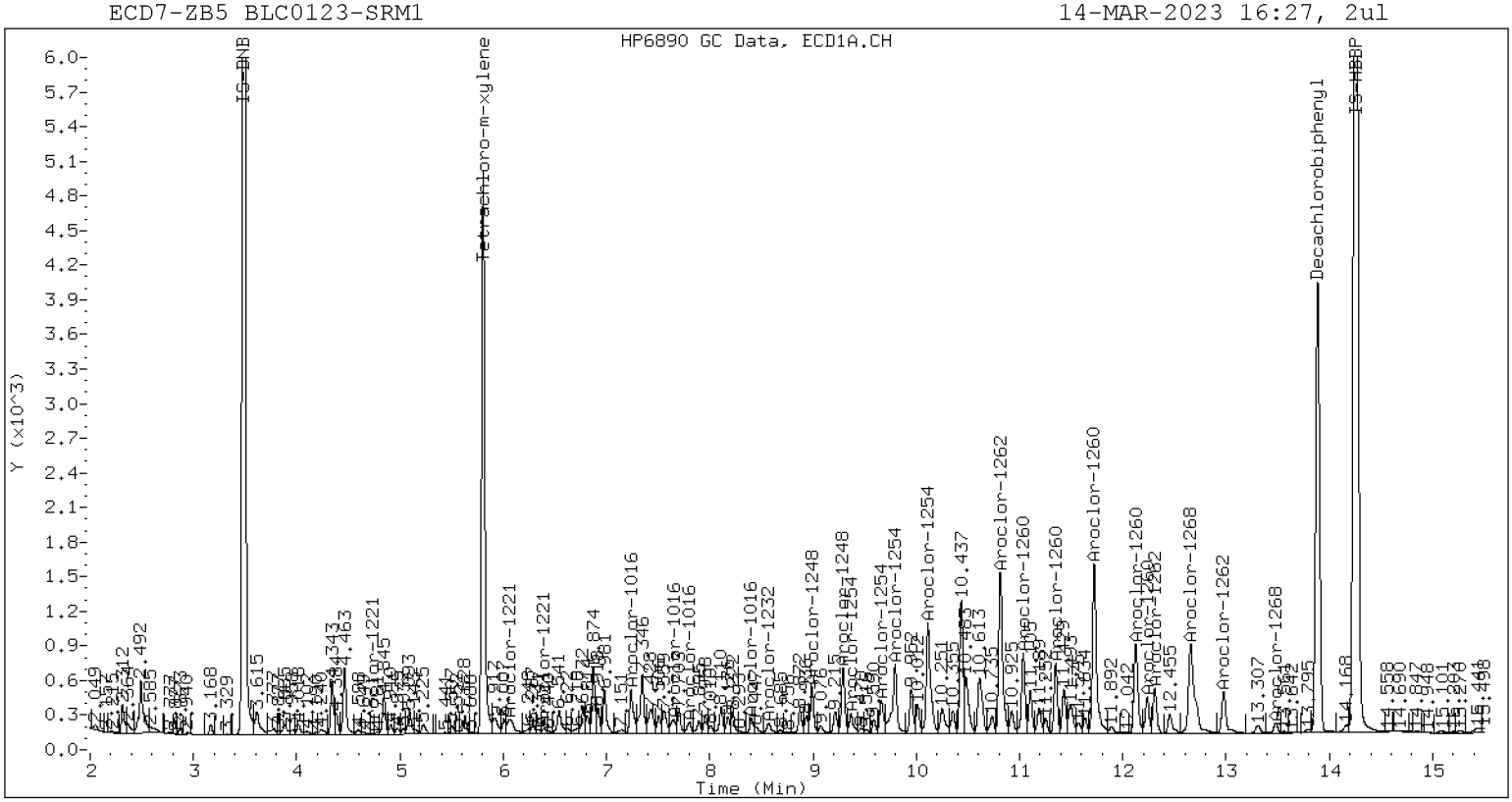
Total PCB Area Col2 (5.790 - 14.019) = 995139 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

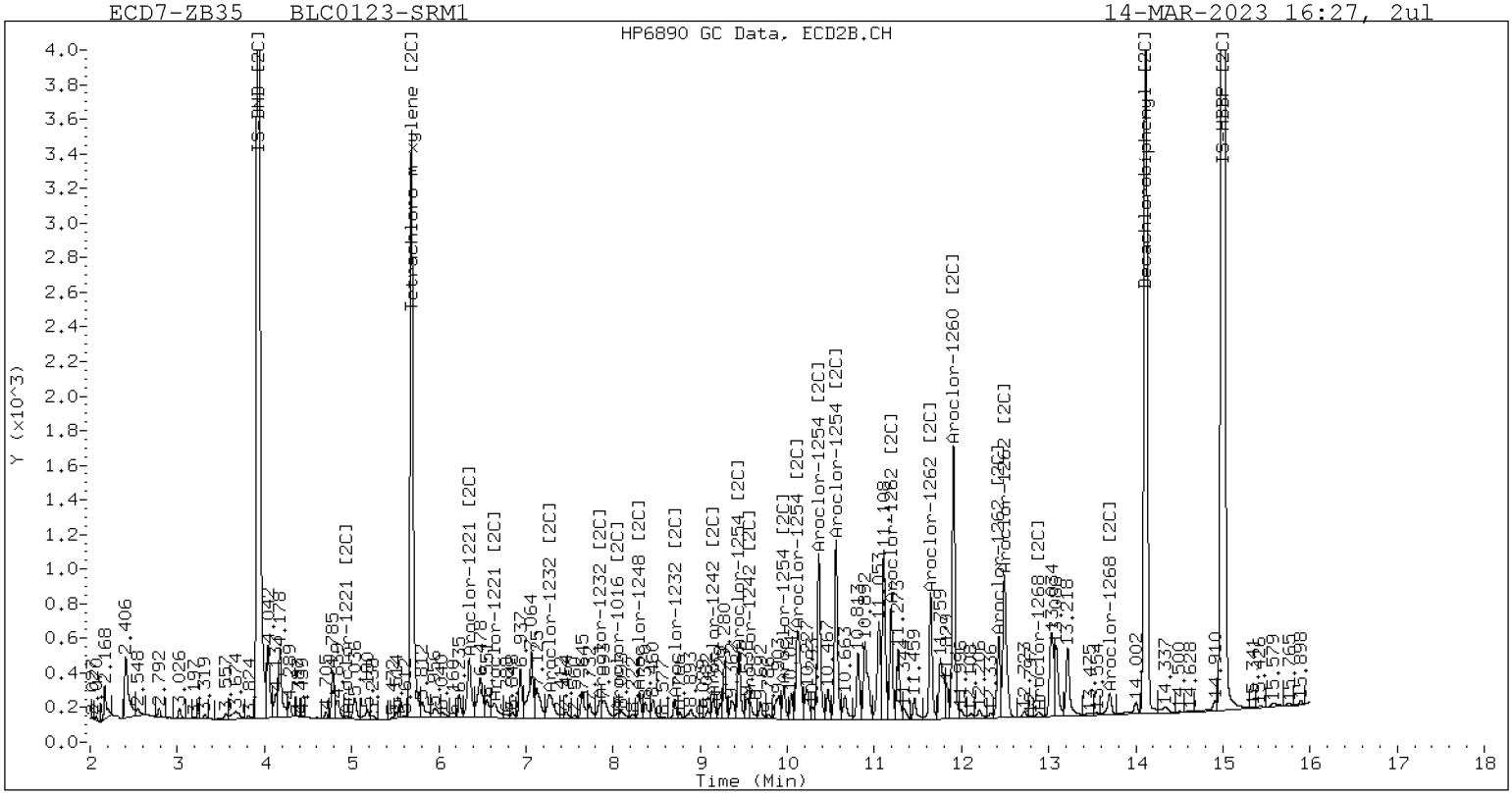
PCB Dual Column Chromatograms

ECD7-ZB5 BLC0123-SRM1 14-MAR-2023 16:27, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 BLC0123-SRM1 14-MAR-2023 16:27, 2ul



ZB-35 Manual Integration: NO

INITIAL CALIBRATION DATA

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GB00069	Instrument:	ECD7
Calibration Date:	02/24/2023	Column (1):	ZB5

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
Aroclor 1016	250	0.0511017	20	0.0514466	50	5.107478E-02	1000	4.502727E-02	100	5.036259E-02	500	0.0471841
Aroclor-1016 (1)	250	0.031405	20	3.172321E-02	50	3.253176E-02	1000	2.667138E-02	100	3.141686E-02	500	2.856283E-02
Aroclor-1016 (2)	250	9.848704E-02	20	9.239415E-02	50	9.245774E-02	1000	8.848657E-02	100	9.221759E-02	500	0.0917416
Aroclor-1016 (3)	250	4.393471E-02	20	5.165382E-02	50	5.037363E-02	1000	3.720718E-02	100	4.822959E-02	500	3.990906E-02
Aroclor-1016 (4)	250	3.058004E-02	20	3.001523E-02	50	2.893599E-02	1000	2.774395E-02	100	2.958631E-02	500	2.852291E-02
Aroclor 1260	250	4.264611E-02	20	3.933745E-02	50	3.914748E-02	1000	0.0377098	100	3.888069E-02	500	3.753326E-02
Aroclor-1260 (1)	250	3.096387E-02	20	2.926415E-02	50	2.920486E-02	1000	2.746159E-02	100	2.841034E-02	500	2.736642E-02
Aroclor-1260 (2)	250	3.291004E-02	20	2.966791E-02	50	3.006192E-02	1000	2.856573E-02	100	3.010757E-02	500	2.910054E-02
Aroclor-1260 (3)	250	8.575373E-02	20	8.087657E-02	50	8.045158E-02	1000	7.674417E-02	100	7.953737E-02	500	7.514663E-02
Aroclor-1260 (4)	250	4.484933E-02	20	3.904963E-02	50	3.886754E-02	1000	3.922291E-02	100	3.955346E-02	500	3.941669E-02
Aroclor-1260 (5)	250	1.875356E-02	20	1.782901E-02	50	1.715148E-02	1000	1.655457E-02	100	1.679471E-02	500	1.663603E-02
Decachlorobiphenyl	40	0.7880759	3.2	0.8290115	8	0.8055828	160	0.797423	16	0.7758675	80	0.7312517
Tetrachlorometaxylene	40	1.205085	3.2	1.168271	8	1.244015	160	1.241136	16	1.185465	80	1.122954

INITIAL CALIBRATION DATA

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GB00069	Instrument:	ECD7
Calibration Date:	02/24/2023	Column (1):	ZB5

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
Aroclor 1221							250	1.657582E-02				
Aroclor-1221 (1)							250	7.164712E-03				
Aroclor-1221 (2)							250	0.0128135				
Aroclor-1221 (3)							250	2.974924E-02				
Aroclor 1232									250	1.690391E-02		
Aroclor-1232 (1)									250	4.285984E-03		
Aroclor-1232 (2)									250	8.499602E-03		
Aroclor-1232 (3)									250	3.847671E-02		
Aroclor-1232 (4)									250	1.635336E-02		
Aroclor 1242	250	3.953397E-02										
Aroclor-1242 (1)	250	2.479209E-02										
Aroclor-1242 (2)	250	7.528986E-02										
Aroclor-1242 (3)	250	2.342574E-02										
Aroclor-1242 (4)	250	3.462819E-02										
Aroclor 1248			250	5.747549E-02								
Aroclor-1248 (1)			250	3.903293E-02								
Aroclor-1248 (2)			250	0.0496149								
Aroclor-1248 (3)			250	9.360202E-02								
Aroclor-1248 (4)			250	4.765213E-02								
Aroclor 1254					250	6.629494E-02						
Aroclor-1254 (1)					250	8.033306E-02						
Aroclor-1254 (2)					250	0.0361302						
Aroclor-1254 (3)					250	5.164705E-02						
Aroclor-1254 (4)					250	0.100423						
Aroclor-1254 (5)					250	6.294139E-02						
Aroclor 1262							250	3.665955E-02				
Aroclor-1262 (1)							250	2.454122E-02				
Aroclor-1262 (2)							250	3.993338E-02				

INITIAL CALIBRATION DATA

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GB00069	Instrument:	ECD7
Calibration Date:	02/24/2023	Column (1):	ZB5

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
Aroclor-1262 (3)							250	4.292945E-02				
Aroclor-1262 (4)							250	3.923413E-02				
Aroclor 1268									250	0.1442124		
Aroclor-1268 (1)									250	0.102504		
Aroclor-1268 (2)									250	0.1015072		
Aroclor-1268 (3)									250	8.685666E-02		
Aroclor-1268 (4)									250	0.2859818		

INITIAL CALIBRATION DATA

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GB00069	Instrument:	ECD7
Calibration Date:	02/24/2023	Column (1):	ZB5

COMPOUND	Mean RRF	RRF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
Aroclor 1016	4.936617E-02	5.3			RSD (20)	
Aroclor-1016 (1)	3.038517E-02	7.4			RSD (20)	
Aroclor-1016 (2)	9.263078E-02	3.5			RSD (20)	
Aroclor-1016 (3)	0.045218	12.9			RSD (20)	
Aroclor-1016 (4)	2.923074E-02	3.5			RSD (20)	
Aroclor 1221		0.0			RSD (20)	
Aroclor-1221 (1)		0.0			RSD (20)	
Aroclor-1221 (2)		0.0			RSD (20)	
Aroclor-1221 (3)		0.0			RSD (20)	
Aroclor 1232		0.0			RSD (20)	
Aroclor-1232 (1)		0.0			RSD (20)	
Aroclor-1232 (2)		0.0			RSD (20)	
Aroclor-1232 (3)		0.0			RSD (20)	
Aroclor-1232 (4)		0.0			RSD (20)	
Aroclor 1242		0.0			RSD (20)	
Aroclor-1242 (1)		0.0			RSD (20)	
Aroclor-1242 (2)		0.0			RSD (20)	
Aroclor-1242 (3)		0.0			RSD (20)	
Aroclor-1242 (4)		0.0			RSD (20)	
Aroclor 1248		0.0			RSD (20)	
Aroclor-1248 (1)		0.0			RSD (20)	
Aroclor-1248 (2)		0.0			RSD (20)	
Aroclor-1248 (3)		0.0			RSD (20)	
Aroclor-1248 (4)		0.0			RSD (20)	
Aroclor 1254		0.0			RSD (20)	
Aroclor-1254 (1)		0.0			RSD (20)	
Aroclor-1254 (2)		0.0			RSD (20)	
Aroclor-1254 (3)		0.0			RSD (20)	
Aroclor-1254 (4)		0.0			RSD (20)	
Aroclor-1254 (5)		0.0			RSD (20)	
Aroclor 1260	3.920913E-02	4.7			RSD (20)	

INITIAL CALIBRATION DATA

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GB00069	Instrument:	ECD7
Calibration Date:	02/24/2023	Column (1):	ZB5

COMPOUND	Mean RRF	RRF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
Aroclor-1260 (1)	2.877854E-02	4.7			RSD (20)	
Aroclor-1260 (2)	3.006895E-02	5.0			RSD (20)	
Aroclor-1260 (3)	7.975167E-02	4.6			RSD (20)	
Aroclor-1260 (4)	4.015993E-02	5.8			RSD (20)	
Aroclor-1260 (5)	1.728656E-02	5.0			RSD (20)	
Aroclor 1262		0.0			RSD (20)	
Aroclor-1262 (1)		0.0			RSD (20)	
Aroclor-1262 (2)		0.0			RSD (20)	
Aroclor-1262 (3)		0.0			RSD (20)	
Aroclor-1262 (4)		0.0			RSD (20)	
Aroclor 1268		0.0			RSD (20)	
Aroclor-1268 (1)		0.0			RSD (20)	
Aroclor-1268 (2)		0.0			RSD (20)	
Aroclor-1268 (3)		0.0			RSD (20)	
Aroclor-1268 (4)		0.0			RSD (20)	
Decachlorobiphenyl	0.7878687	4.2			RSD (20)	
Tetrachlorometaxylene	1.194488	3.9			RSD (20)	

INITIAL CALIBRATION DATA

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GB00069	Instrument:	ECD7
Calibration Date:	02/24/2023	Column (2):	ZB35

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
Aroclor 1016 [2C]	250	0.0571297	20	5.099991E-02	50	0.0573721	1000	5.075893E-02	100	5.836783E-02	500	5.288542E-02
Aroclor-1016 (1) [2C]	250	4.732763E-02	20	5.070692E-02	50	5.021603E-02	1000	4.080107E-02	100	4.868029E-02	500	4.325569E-02
Aroclor-1016 (2) [2C]	250	0.1025919	20	8.142537E-02	50	9.407053E-02	1000	9.361548E-02	100	0.1015897	500	9.651233E-02
Aroclor-1016 (3) [2C]	250	4.410181E-02	20	4.005508E-02	50	4.718351E-02	1000	3.925581E-02	100	4.613223E-02	500	4.062487E-02
Aroclor-1016 (4) [2C]	250	3.449742E-02	20	3.181228E-02	50	3.801833E-02	1000	0.0293633	100	0.0370691	500	3.114879E-02
Aroclor 1260 [2C]	250	7.266587E-02	20	0.0760446	50	7.181489E-02	1000	0.0636872	100	6.942709E-02	500	6.617305E-02
Aroclor-1260 (1) [2C]	250	4.801376E-02	20	5.286013E-02	50	4.911343E-02	1000	4.201242E-02	100	4.695569E-02	500	4.328842E-02
Aroclor-1260 (2) [2C]	250	0.1266443	20	0.1297611	50	0.1243096	1000	0.1054494	100	0.1209452	500	0.1132043
Aroclor-1260 (3) [2C]	250	3.207621E-02	20	3.524009E-02	50	3.146502E-02	1000	0.0319805	100	2.936945E-02	500	3.102287E-02
Aroclor-1260 (4) [2C]	250	8.392913E-02	20	8.631709E-02	50	8.237154E-02	1000	7.530648E-02	100	0.080438	500	7.717658E-02
Decachlorobiphenyl [2C]	40	1.310398	3.2	1.170661	8	1.20406	160	1.207975	16	1.205489	80	1.211045
Tetrachlorometaxylene [2C]	40	1.219073	3.2	1.21526	8	1.195453	160	1.111394	16	1.175548	80	1.125598

INITIAL CALIBRATION DATA

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GB00069	Instrument:	ECD7
Calibration Date:	02/24/2023	Column (2):	ZB35

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
Aroclor 1221 [2C]							250	1.507982E-02				
Aroclor-1221 (1) [2C]							250	7.573277E-03				
Aroclor-1221 (2) [2C]							250	0.0143332				
Aroclor-1221 (3) [2C]							250	2.333296E-02				
Aroclor 1232 [2C]									250	1.920227E-02		
Aroclor-1232 (1) [2C]									250	4.09321E-03		
Aroclor-1232 (2) [2C]									250	2.034072E-02		
Aroclor-1232 (3) [2C]									250	4.067023E-02		
Aroclor-1232 (4) [2C]									250	1.170493E-02		
Aroclor 1242 [2C]	250	4.230924E-02										
Aroclor-1242 (1) [2C]	250	3.716893E-02										
Aroclor-1242 (2) [2C]	250	7.813249E-02										
Aroclor-1242 (3) [2C]	250	2.431205E-02										
Aroclor-1242 (4) [2C]	250	0.0296235										
Aroclor 1248 [2C]			250	4.442703E-02								
Aroclor-1248 (1) [2C]			250	3.819713E-02								
Aroclor-1248 (2) [2C]			250	3.949349E-02								
Aroclor-1248 (3) [2C]			250	4.544987E-02								
Aroclor-1248 (4) [2C]			250	5.456762E-02								
Aroclor 1254 [2C]					250	0.0763106						
Aroclor-1254 (1) [2C]					250	6.080523E-02						
Aroclor-1254 (2) [2C]					250	4.891616E-02						
Aroclor-1254 (3) [2C]					250	0.1058376						
Aroclor-1254 (4) [2C]					250	0.103175						
Aroclor-1254 (5) [2C]					250	6.281905E-02						
Aroclor 1262 [2C]							250	7.397596E-02				
Aroclor-1262 (1) [2C]							250	6.830764E-02				
Aroclor-1262 (2) [2C]							250	5.817803E-02				

INITIAL CALIBRATION DATA

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GB00069	Instrument:	ECD7
Calibration Date:	02/24/2023	Column (2):	ZB35

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
Aroclor-1262 (3) [2C]							250	6.600951E-02				
Aroclor-1262 (4) [2C]							250	0.1034087				
Aroclor 1268 [2C]									250	0.2386862		
Aroclor-1268 (1) [2C]									250	0.1610947		
Aroclor-1268 (2) [2C]									250	0.1731794		
Aroclor-1268 (3) [2C]									250	0.1478672		
Aroclor-1268 (4) [2C]									250	0.4726034		

INITIAL CALIBRATION DATA

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GB00069	Instrument:	ECD7
Calibration Date:	02/24/2023	Column (2):	ZB35

COMPOUND	Mean RRF	RRF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
Aroclor 1016 [2C]	5.458565E-02	6.3			RSD (20)	
Aroclor-1016 (1) [2C]	4.683127E-02	8.5			RSD (20)	
Aroclor-1016 (2) [2C]	9.496755E-02	8.0			RSD (20)	
Aroclor-1016 (3) [2C]	4.289222E-02	7.9			RSD (20)	
Aroclor-1016 (4) [2C]	3.365154E-02	10.3			RSD (20)	
Aroclor 1221 [2C]		0.0			RSD (20)	
Aroclor-1221 (1) [2C]		0.0			RSD (20)	
Aroclor-1221 (2) [2C]		0.0			RSD (20)	
Aroclor-1221 (3) [2C]		0.0			RSD (20)	
Aroclor 1232 [2C]		0.0			RSD (20)	
Aroclor-1232 (1) [2C]		0.0			RSD (20)	
Aroclor-1232 (2) [2C]		0.0			RSD (20)	
Aroclor-1232 (3) [2C]		0.0			RSD (20)	
Aroclor-1232 (4) [2C]		0.0			RSD (20)	
Aroclor 1242 [2C]		0.0			RSD (20)	
Aroclor-1242 (1) [2C]		0.0			RSD (20)	
Aroclor-1242 (2) [2C]		0.0			RSD (20)	
Aroclor-1242 (3) [2C]		0.0			RSD (20)	
Aroclor-1242 (4) [2C]		0.0			RSD (20)	
Aroclor 1248 [2C]		0.0			RSD (20)	
Aroclor-1248 (1) [2C]		0.0			RSD (20)	
Aroclor-1248 (2) [2C]		0.0			RSD (20)	
Aroclor-1248 (3) [2C]		0.0			RSD (20)	
Aroclor-1248 (4) [2C]		0.0			RSD (20)	
Aroclor 1254 [2C]		0.0			RSD (20)	
Aroclor-1254 (1) [2C]		0.0			RSD (20)	
Aroclor-1254 (2) [2C]		0.0			RSD (20)	
Aroclor-1254 (3) [2C]		0.0			RSD (20)	
Aroclor-1254 (4) [2C]		0.0			RSD (20)	
Aroclor-1254 (5) [2C]		0.0			RSD (20)	
Aroclor 1260 [2C]	6.996878E-02	6.4			RSD (20)	

INITIAL CALIBRATION DATA

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GB00069	Instrument:	ECD7
Calibration Date:	02/24/2023	Column (2):	ZB35

COMPOUND	Mean RRF	RRF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
Aroclor-1260 (1) [2C]	4.704064E-02	8.4			RSD (20)	
Aroclor-1260 (2) [2C]	0.1200523	7.6			RSD (20)	
Aroclor-1260 (3) [2C]	3.185902E-02	6.0			RSD (20)	
Aroclor-1260 (4) [2C]	8.092314E-02	5.1			RSD (20)	
Aroclor 1262 [2C]		0.0			RSD (20)	
Aroclor-1262 (1) [2C]		0.0			RSD (20)	
Aroclor-1262 (2) [2C]		0.0			RSD (20)	
Aroclor-1262 (3) [2C]		0.0			RSD (20)	
Aroclor-1262 (4) [2C]		0.0			RSD (20)	
Aroclor 1268 [2C]		0.0			RSD (20)	
Aroclor-1268 (1) [2C]		0.0			RSD (20)	
Aroclor-1268 (2) [2C]		0.0			RSD (20)	
Aroclor-1268 (3) [2C]		0.0			RSD (20)	
Aroclor-1268 (4) [2C]		0.0			RSD (20)	
Decachlorobiphenyl [2C]	1.218271	3.9			RSD (20)	
Tetrachlorometaxylene [2C]	1.173721	3.9			RSD (20)	

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS SEQUENCE

SLB0342

Instrument: ECD7
Calibration ID: GB00069

Printed: 2/28/2023 9:54:44AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
SLB0342-CAL1	QC		1		L000856	L000844		
SLB0342-CAL2	QC		2		L000859	L000844		
SLB0342-CAL3	QC		3		L000858	L000844		
SLB0342-CAL4	QC		4		L000731	L000844		
SLB0342-CAL5	QC		5		L000857	L000844		
SLB0342-CAL6	QC		6		L000855	L000844		
SLB0342-CAL7	QC		7		L000860	L000844		
SLB0342-CAL8	QC		8		L000861	L000844		
SLB0342-CAL9	QC		9		L000862	L000844		
SLB0342-CALA	QC		10		L000863	L000844		
SLB0342-CALB	QC		11		L000864	L000844		
SLB0342-SCV1	QC		12		L002065	L000844		
SLB0342-SCV2	QC		13		K007656	L000844		
SLB0342-SCV3	QC		14		L002066	L000844		
SLB0342-SCV4	QC		15		L002067	L000844		
SLB0342-SCV5	QC		16		L002068	L000844		
SLB0342-SCV6	QC		17		L002069	L000844		

Samples Loaded By Date

Data Processed By Date

GC LOG SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230224.b

	Inject Date/Time	Filename	DF	LabID	ClientID
1	24-FEB-2023 10:51	02242301ECD7.D	1	IB	
2	24-FEB-2023 11:12	02242302ECD7.D	1	0.25PPMAR1660	
3	24-FEB-2023 11:33	02242303ECD7.D	1	0.02PPMAR1660	
4	24-FEB-2023 11:54	02242304ECD7.D	1	0.05PPMAR1660	
5	24-FEB-2023 12:15	02242305ECD7.D	1	1.0PPMAR1660	
6	24-FEB-2023 12:36	02242306ECD7.D	1	0.1PPMAR1660	
7	24-FEB-2023 12:57	02242307ECD7.D	1	0.5PPMAR1660	
8	24-FEB-2023 13:18	02242308ECD7.D	1	0.25PPMAR1242	
9	24-FEB-2023 13:39	02242309ECD7.D	1	0.25PPMAR1248	
10	24-FEB-2023 14:00	02242310ECD7.D	1	0.25PPMAR1254	
11	24-FEB-2023 14:21	02242311ECD7.D	1	0.25PPMAR2162	
12	24-FEB-2023 14:42	02242312ECD7.D	1	0.25PPMAR3268	
13	24-FEB-2023 15:03	02242313ECD7.D	1	AR1660SCV	
14	24-FEB-2023 15:24	02242314ECD7.D	1	AR1242SCV	
15	24-FEB-2023 15:45	02242315ECD7.D	1	AR1248SCV	
16	24-FEB-2023 16:06	02242316ECD7.D	1	AR1254SCV	
17	24-FEB-2023 16:27	02242317ECD7.D	1	AR2162SCV	
18	24-FEB-2023 16:48	02242318ECD7.D	1	AR3268SCV	
19	24-FEB-2023 17:09	02242319ECD7.D	1	DDTS	
20	24-FEB-2023 17:30	02242320ECD7.D	1	DDT BD	

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230224.b

ARI Job No.: IB Method: PCB.m Instrument: ecd7.i Date: 24-FEB-2023

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1051	02242301ECD7.D	IB		1	NO MANUAL INTEGRATION
1112	02242302ECD7.D	0.25PPMAR1660		1	NO MANUAL INTEGRATION
1133	02242303ECD7.D	0.02PPMAR1660		1	NO MANUAL INTEGRATION
1154	02242304ECD7.D	0.05PPMAR1660		1	NO MANUAL INTEGRATION
1215	02242305ECD7.D	1.0PPMAR1660		1	NO MANUAL INTEGRATION
1236	02242306ECD7.D	0.1PPMAR1660		1	NO MANUAL INTEGRATION
1257	02242307ECD7.D	0.5PPMAR1660		1	NO MANUAL INTEGRATION
1318	02242308ECD7.D	0.25PPMAR1242		1	NO MANUAL INTEGRATION
1339	02242309ECD7.D	0.25PPMAR1248		1	NO MANUAL INTEGRATION
1400	02242310ECD7.D	0.25PPMAR1254		1	NO MANUAL INTEGRATION
1421	02242311ECD7.D	0.25PPMAR2162		1	NO MANUAL INTEGRATION
1442	02242312ECD7.D	0.25PPMAR3268		1	NO MANUAL INTEGRATION
1503	02242313ECD7.D	AR1660SCV		1	NO MANUAL INTEGRATION
1524	02242314ECD7.D	AR1242SCV		1	NO MANUAL INTEGRATION
1545	02242315ECD7.D	AR1248SCV		1	NO MANUAL INTEGRATION
1606	02242316ECD7.D	AR1254SCV		1	NO MANUAL INTEGRATION
1627	02242317ECD7.D	AR2162SCV		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230224.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1648	02242318ECD7.D	AR3268SCV		1	NO MANUAL INTEGRATION
1709	02242319ECD7.D	DDTS		1	NO MANUAL INTEGRATION
1730	02242320ECD7.D	DDT BD		1	NO MANUAL INTEGRATION
1751	02242321ECD7.D			1	NO MANUAL INTEGRATION
1812	02242322ECD7.D			1	NO MANUAL INTEGRATION
1833	02242323ECD7.D			1	NO MANUAL INTEGRATION
1854	02242324ECD7.D			1	NO MANUAL INTEGRATION
1915	02242325ECD7.D			1	NO MANUAL INTEGRATION
1936	02242326ECD7.D			1	NO MANUAL INTEGRATION
1957	02242327ECD7.D			1	NO MANUAL INTEGRATION
2018	02242328ECD7.D			1	NO MANUAL INTEGRATION
2039	02242329ECD7.D			1	NO MANUAL INTEGRATION
2059	02242330ECD7.D			1	NO MANUAL INTEGRATION
2120	02242331ECD7.D			1	NO MANUAL INTEGRATION
2141	02242332ECD7.D			1	NO MANUAL INTEGRATION
2202	02242333ECD7.D			1	NO MANUAL INTEGRATION
2223	02242334ECD7.D			1	NO MANUAL INTEGRATION
2244	02242335ECD7.D			1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230224.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
2305	02242336ECD7.D			1	NO MANUAL INTEGRATION
2326	02242337ECD7.D			1	NO MANUAL INTEGRATION
2347	02242338ECD7.D			1	NO MANUAL INTEGRATION
0008	02242339ECD7.D			1	NO MANUAL INTEGRATION
0029	02242340ECD7.D			1	NO MANUAL INTEGRATION
0050	02242341ECD7.D			1	NO MANUAL INTEGRATION
0111	02242342ECD7.D			1	NO MANUAL INTEGRATION
0132	02242343ECD7.D			1	NO MANUAL INTEGRATION
0153	02242344ECD7.D			1	NO MANUAL INTEGRATION
0214	02242345ECD7.D			1	NO MANUAL INTEGRATION
0235	02242346ECD7.D			1	NO MANUAL INTEGRATION
0256	02242347ECD7.D			1	NO MANUAL INTEGRATION
0317	02242348ECD7.D			1	NO MANUAL INTEGRATION
0338	02242349ECD7.D			1	NO MANUAL INTEGRATION
0359	02242350ECD7.D			1	NO MANUAL INTEGRATION
0420	02242351ECD7.D			1	NO MANUAL INTEGRATION
0441	02242352ECD7.D			1	NO MANUAL INTEGRATION
0502	02242353ECD7.D			1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230224.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0523	02242354ECD7.D			1	NO MANUAL INTEGRATION
0544	02242355ECD7.D			1	NO MANUAL INTEGRATION
0605	02242356ECD7.D			1	NO MANUAL INTEGRATION
0626	02242357ECD7.D			1	NO MANUAL INTEGRATION
0647	02242358ECD7.D			1	NO MANUAL INTEGRATION
0708	02242359ECD7.D			1	NO MANUAL INTEGRATION
0729	02242360ECD7.D			1	NO MANUAL INTEGRATION
0750	02242361ECD7.D			1	NO MANUAL INTEGRATION
0811	02242362ECD7.D			1	NO MANUAL INTEGRATION
0832	02242363ECD7.D			1	NO MANUAL INTEGRATION
0853	02242364ECD7.D			1	NO MANUAL INTEGRATION
0914	02242365ECD7.D			1	NO MANUAL INTEGRATION
0935	02242366ECD7.D			1	NO MANUAL INTEGRATION
0956	02242367ECD7.D			1	NO MANUAL INTEGRATION
1017	02242368ECD7.D			1	NO MANUAL INTEGRATION
1038	02242369ECD7.D			1	NO MANUAL INTEGRATION
1059	02242370ECD7.D			1	NO MANUAL INTEGRATION
1120	02242371ECD7.D			1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230224.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1141	02242372ECD7.D			1	NO MANUAL INTEGRATION
1202	02242373ECD7.D			1	NO MANUAL INTEGRATION
1223	02242374ECD7.D			1	NO MANUAL INTEGRATION
1244	02242375ECD7.D			1	NO MANUAL INTEGRATION
1305	02242376ECD7.D			1	NO MANUAL INTEGRATION
1326	02242377ECD7.D			1	NO MANUAL INTEGRATION
1347	02242378ECD7.D			1	NO MANUAL INTEGRATION
1408	02242379ECD7.D			1	NO MANUAL INTEGRATION
1429	02242380ECD7.D			1	NO MANUAL INTEGRATION
1450	02242381ECD7.D			1	NO MANUAL INTEGRATION
1511	02242382ECD7.D			1	NO MANUAL INTEGRATION
1532	02242383ECD7.D			1	NO MANUAL INTEGRATION
1553	02242384ECD7.D			1	NO MANUAL INTEGRATION
1051	02242301ECD7.D	IB		1	NO MANUAL INTEGRATION
1112	02242302ECD7.D	0.25PPMAR1660		1	NO MANUAL INTEGRATION
1133	02242303ECD7.D	0.02PPMAR1660		1	Aroclor-1016 [2C],
1154	02242304ECD7.D	0.05PPMAR1660		1	NO MANUAL INTEGRATION
1215	02242305ECD7.D	1.0PPMAR1660		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230224.b\230224.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1236	02242306ECD7.D	0.1PPMAR1660		1	NO MANUAL INTEGRATION
1257	02242307ECD7.D	0.5PPMAR1660		1	NO MANUAL INTEGRATION
1318	02242308ECD7.D	0.25PPMAR1242		1	NO MANUAL INTEGRATION
1339	02242309ECD7.D	0.25PPMAR1248		1	NO MANUAL INTEGRATION
1400	02242310ECD7.D	0.25PPMAR1254		1	NO MANUAL INTEGRATION
1421	02242311ECD7.D	0.25PPMAR2162		1	NO MANUAL INTEGRATION
1442	02242312ECD7.D	0.25PPMAR3268		1	NO MANUAL INTEGRATION
1503	02242313ECD7.D	AR1660SCV		1	NO MANUAL INTEGRATION
1524	02242314ECD7.D	AR1242SCV		1	NO MANUAL INTEGRATION
1545	02242315ECD7.D	AR1248SCV		1	NO MANUAL INTEGRATION
1606	02242316ECD7.D	AR1254SCV		1	NO MANUAL INTEGRATION
1627	02242317ECD7.D	AR2162SCV		1	NO MANUAL INTEGRATION
1648	02242318ECD7.D	AR3268SCV		1	NO MANUAL INTEGRATION
1709	02242319ECD7.D	DDTS		1	NO MANUAL INTEGRATION
1730	02242320ECD7.D	DDT BD		1	NO MANUAL INTEGRATION
1751	02242321ECD7.D			1	NO MANUAL INTEGRATION
1812	02242322ECD7.D			1	NO MANUAL INTEGRATION
1833	02242323ECD7.D			1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230224.b\230224.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1854	02242324ECD7.D			1	NO MANUAL INTEGRATION
1915	02242325ECD7.D			1	NO MANUAL INTEGRATION
1936	02242326ECD7.D			1	NO MANUAL INTEGRATION
1957	02242327ECD7.D			1	NO MANUAL INTEGRATION
2018	02242328ECD7.D			1	NO MANUAL INTEGRATION
2038	02242329ECD7.D			1	NO MANUAL INTEGRATION
2059	02242330ECD7.D			1	NO MANUAL INTEGRATION
2120	02242331ECD7.D			1	NO MANUAL INTEGRATION
2141	02242332ECD7.D			1	NO MANUAL INTEGRATION
2202	02242333ECD7.D			1	NO MANUAL INTEGRATION
2223	02242334ECD7.D			1	NO MANUAL INTEGRATION
2244	02242335ECD7.D			1	NO MANUAL INTEGRATION
2305	02242336ECD7.D			1	NO MANUAL INTEGRATION
2326	02242337ECD7.D			1	NO MANUAL INTEGRATION
2347	02242338ECD7.D			1	NO MANUAL INTEGRATION
0008	02242339ECD7.D			1	NO MANUAL INTEGRATION
0029	02242340ECD7.D			1	NO MANUAL INTEGRATION
0050	02242341ECD7.D			1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230224.b\230224.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0111	02242342ECD7.D			1	NO MANUAL INTEGRATION
0132	02242343ECD7.D			1	NO MANUAL INTEGRATION
0153	02242344ECD7.D			1	NO MANUAL INTEGRATION
0214	02242345ECD7.D			1	NO MANUAL INTEGRATION
0235	02242346ECD7.D			1	NO MANUAL INTEGRATION
0256	02242347ECD7.D			1	NO MANUAL INTEGRATION
0317	02242348ECD7.D			1	NO MANUAL INTEGRATION
0338	02242349ECD7.D			1	NO MANUAL INTEGRATION
0359	02242350ECD7.D			1	NO MANUAL INTEGRATION
0420	02242351ECD7.D			1	NO MANUAL INTEGRATION
0441	02242352ECD7.D			1	NO MANUAL INTEGRATION
0502	02242353ECD7.D			1	NO MANUAL INTEGRATION
0523	02242354ECD7.D			1	NO MANUAL INTEGRATION
0544	02242355ECD7.D			1	NO MANUAL INTEGRATION
0605	02242356ECD7.D			1	NO MANUAL INTEGRATION
0626	02242357ECD7.D			1	NO MANUAL INTEGRATION
0647	02242358ECD7.D			1	NO MANUAL INTEGRATION
0708	02242359ECD7.D			1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230224.b\230224.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0729	02242360ECD7.D			1	NO MANUAL INTEGRATION
0750	02242361ECD7.D			1	NO MANUAL INTEGRATION
0811	02242362ECD7.D			1	NO MANUAL INTEGRATION
0832	02242363ECD7.D			1	NO MANUAL INTEGRATION
0853	02242364ECD7.D			1	NO MANUAL INTEGRATION
0914	02242365ECD7.D			1	NO MANUAL INTEGRATION
0935	02242366ECD7.D			1	NO MANUAL INTEGRATION
0956	02242367ECD7.D			1	NO MANUAL INTEGRATION
1017	02242368ECD7.D			1	NO MANUAL INTEGRATION
1038	02242369ECD7.D			1	NO MANUAL INTEGRATION
1059	02242370ECD7.D			1	NO MANUAL INTEGRATION
1120	02242371ECD7.D			1	NO MANUAL INTEGRATION
1141	02242372ECD7.D			1	NO MANUAL INTEGRATION
1202	02242373ECD7.D			1	NO MANUAL INTEGRATION
1223	02242374ECD7.D			1	NO MANUAL INTEGRATION
1244	02242375ECD7.D			1	NO MANUAL INTEGRATION
1305	02242376ECD7.D			1	NO MANUAL INTEGRATION
1326	02242377ECD7.D			1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230224.b\230224.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1347	02242378ECD7.D			1	NO MANUAL INTEGRATION
1408	02242379ECD7.D			1	NO MANUAL INTEGRATION
1429	02242380ECD7.D			1	NO MANUAL INTEGRATION
1450	02242381ECD7.D			1	NO MANUAL INTEGRATION
1511	02242382ECD7.D			1	NO MANUAL INTEGRATION
1532	02242383ECD7.D			1	NO MANUAL INTEGRATION
1553	02242384ECD7.D			1	NO MANUAL INTEGRATION

Security Status Report

Date: 28-Feb-2023 09:27

02242301ECD7.D	Data Locked	richardl, 28-Feb-2023 09:27
02242302ECD7.D	Data Locked	richardl, 28-Feb-2023 09:27
02242303ECD7.D	Data Locked	richardl, 28-Feb-2023 09:27
02242304ECD7.D	Data Locked	richardl, 28-Feb-2023 09:27
02242305ECD7.D	Data Locked	richardl, 28-Feb-2023 09:27
02242306ECD7.D	Data Locked	richardl, 28-Feb-2023 09:27
02242307ECD7.D	Data Locked	richardl, 28-Feb-2023 09:27
02242308ECD7.D	Data Locked	richardl, 28-Feb-2023 09:27
02242309ECD7.D	Data Locked	richardl, 28-Feb-2023 09:27
02242310ECD7.D	Data Locked	richardl, 28-Feb-2023 09:27
02242311ECD7.D	Data Locked	richardl, 28-Feb-2023 09:27
02242312ECD7.D	Data Locked	richardl, 28-Feb-2023 09:27
02242313ECD7.D	Data Locked	richardl, 28-Feb-2023 09:27
02242314ECD7.D	Data Locked	richardl, 28-Feb-2023 09:27
02242315ECD7.D	Data Locked	richardl, 28-Feb-2023 09:27
02242316ECD7.D	Data Locked	richardl, 28-Feb-2023 09:27
02242317ECD7.D	Data Locked	richardl, 28-Feb-2023 09:27
02242318ECD7.D	Data Locked	richardl, 28-Feb-2023 09:27
02242319ECD7.D	Data Locked	richardl, 28-Feb-2023 09:27
02242320ECD7.D	Data Locked	richardl, 28-Feb-2023 09:27

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2023 11:12
End Cal Date : 24-FEB-2023 14:42
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd7.i\230224.b\PCB.m
Last Edit : 24-Feb-2023 15:31 richardl
Curve Type : Average

Calibration File Names:
Level 1: \\target\share\chem4\ecd7.i\230224.b\02242303ECD7.D
Level 2: \\target\share\chem4\ecd7.i\230224.b\02242304ECD7.D
Level 3: \\target\share\chem4\ecd7.i\230224.b\02242306ECD7.D
Level 4: \\target\share\chem4\ecd7.i\230224.b\02242302ECD7.D
Level 5: \\target\share\chem4\ecd7.i\230224.b\02242307ECD7.D
Level 6: \\target\share\chem4\ecd7.i\230224.b\02242305ECD7.D
Level 7: \\target\share\chem4\ecd7.i\230224.b\02242312ECD7.D

Compound	20.000 Level 1	50.000 Level 2	100.000 Level 3	250.000 Level 4	500.000 Level 5	1000.000 Level 6	250.000 Level 7	___ RRF	% RSD
2 Aroclor-1221(1)	+++++	+++++	+++++	+++++	+++++	+++++	0.00716	0.00716	0.000
(2)	+++++	+++++	+++++	+++++	+++++	+++++	0.01281	0.01281	0.000
(3)	+++++	+++++	+++++	+++++	+++++	+++++	0.02975	0.02975	0.000
3 Aroclor-1242(1)	+++++	+++++	+++++	+++++	+++++	+++++	0.02479	0.02479	0.000
(2)	+++++	+++++	+++++	+++++	+++++	+++++	0.07529	0.07529	0.000
(3)	+++++	+++++	+++++	+++++	+++++	+++++	0.02343	0.02343	0.000
(4)	+++++	+++++	+++++	+++++	+++++	+++++	0.03463	0.03463	0.000
4 Aroclor-1232(1)	+++++	+++++	+++++	+++++	+++++	+++++	0.00429	0.00429	0.000

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2023 11:12
End Cal Date : 24-FEB-2023 14:42
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd7.i\230224.b\PCB.m
Last Edit : 24-Feb-2023 15:31 richardl
Curve Type : Average

Compound	20.000 Level 1	50.000 Level 2	100.000 Level 3	250.000 Level 4	500.000 Level 5	1000.000 Level 6	250.000 Level 7	___ RRF	% RSD
(2)	+++++	+++++	+++++	+++++	+++++	+++++	0.00850	0.00850	0.000
(3)	+++++	+++++	+++++	+++++	+++++	+++++	0.03848	0.03848	0.000
(4)	+++++	+++++	+++++	+++++	+++++	+++++	0.01635	0.01635	0.000
7 Aroclor-1016(1)	0.03172	0.03253	0.03142	0.03141	0.02856	0.02667	+++++	0.03039	7.449
(2)	0.09239	0.09246	0.09222	0.09849	0.09174	0.08849	+++++	0.09263	3.499
(3)	0.05165	0.05037	0.04823	0.04393	0.03991	0.03721	+++++	0.04522	12.936
(4)	0.03002	0.02894	0.02959	0.03058	0.02852	0.02774	+++++	0.02923	3.542
6 Aroclor-1248(1)	+++++	+++++	+++++	+++++	+++++	+++++	0.03903	0.03903	0.000
(2)	+++++	+++++	+++++	+++++	+++++	+++++	0.04961	0.04961	0.000
(3)	+++++	+++++	+++++	+++++	+++++	+++++	0.09360	0.09360	0.000
(4)	+++++	+++++	+++++	+++++	+++++	+++++	0.04765	0.04765	0.000

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2023 11:12
End Cal Date : 24-FEB-2023 14:42
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd7.i\230224.b\PCB.m
Last Edit : 24-Feb-2023 15:31 richardl
Curve Type : Average

Compound	20.000 Level 1	50.000 Level 2	100.000 Level 3	250.000 Level 4	500.000 Level 5	1000.000 Level 6	250.000 Level 7	___ RRF	% RSD
8 Aroclor-1254(1)	+++++	+++++	+++++	+++++	+++++	+++++	0.08033	0.08033	0.000
(2)	+++++	+++++	+++++	+++++	+++++	+++++	0.03613	0.03613	0.000
(3)	+++++	+++++	+++++	+++++	+++++	+++++	0.05165	0.05165	0.000
(4)	+++++	+++++	+++++	+++++	+++++	+++++	0.10042	0.10042	0.000
(5)	+++++	+++++	+++++	+++++	+++++	+++++	0.06294	0.06294	0.000
9 Aroclor-1260(1)	0.02926	0.02920	0.02841	0.03096	0.02737	0.02746	+++++	0.02878	4.677
(2)	0.02967	0.03006	0.03011	0.03291	0.02910	0.02857	+++++	0.03007	5.029
(3)	0.08088	0.08045	0.07954	0.08575	0.07515	0.07674	+++++	0.07975	4.627
(4)	0.03905	0.03887	0.03955	0.04485	0.03942	0.03922	+++++	0.04016	5.753
(5)	0.01783	0.01715	0.01679	0.01875	0.01664	0.01655	+++++	0.01729	4.953
10 Aroclor-1262(1)	+++++	+++++	+++++	+++++	+++++	+++++	0.02454	0.02454	0.000

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2023 11:12
End Cal Date : 24-FEB-2023 14:42
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd7.i\230224.b\PCB.m
Last Edit : 24-Feb-2023 15:31 richardl
Curve Type : Average

Compound	20.000 Level 1	50.000 Level 2	100.000 Level 3	250.000 Level 4	500.000 Level 5	1000.000 Level 6	250.000 Level 7	___ RRF	% RSD
(2)	+++++	+++++	+++++	+++++	+++++	+++++			
	0.03993							0.03993	0.000
(3)	+++++	+++++	+++++	+++++	+++++	+++++			
	0.04293							0.04293	0.000
(4)	+++++	+++++	+++++	+++++	+++++	+++++			
	0.03923							0.03923	0.000
11 Aroclor-1268(1)	+++++	+++++	+++++	+++++	+++++	+++++			
	0.10250							0.10250	0.000
(2)	+++++	+++++	+++++	+++++	+++++	+++++			
	0.10151							0.10151	0.000
(3)	+++++	+++++	+++++	+++++	+++++	+++++			
	0.08686							0.08686	0.000
(4)	+++++	+++++	+++++	+++++	+++++	+++++			
	0.28598							0.28598	0.000
42 2,4-DDE	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++							+++++	+++++
43 2,4-DDD	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++							+++++	+++++
44 2,4-DDT	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++							+++++	+++++
46 4,4-DDE	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++							+++++	+++++

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2023 11:12
End Cal Date : 24-FEB-2023 14:42
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd7.i\230224.b\PCB.m
Last Edit : 24-Feb-2023 15:31 richardl
Curve Type : Average

Compound	20.000 Level 1	50.000 Level 2	100.000 Level 3	250.000 Level 4	500.000 Level 5	1000.000 Level 6	250.000 Level 7	___ RRF	% RSD
47 4,4-DDD	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
48 4,4-DDT	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
49 Hexachlorobutadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
50 Hexachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 1 Tetrachloro-m-xylene	1.16827	1.24402	1.18546	1.20509	1.12295	1.24114	+++++	1.19449	3.860
$ 13 Decachlorobiphenyl	0.82901	0.80558	0.77587	0.78808	0.73125	0.79742	+++++	0.78787	4.189

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2023 11:12
End Cal Date : 24-FEB-2023 14:42
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd7.i\230224.b\PCB.m\PCB2.m
Last Edit : 24-Feb-2023 15:29 richardl
Curve Type : Average

Calibration File Names:
Level 1: \\target\share\chem4\ecd7.i\230224.b\230224.b\02242303ECD7.D
Level 2: \\target\share\chem4\ecd7.i\230224.b\230224.b\02242304ECD7.D
Level 3: \\target\share\chem4\ecd7.i\230224.b\230224.b\02242306ECD7.D
Level 4: \\target\share\chem4\ecd7.i\230224.b\230224.b\02242302ECD7.D
Level 5: \\target\share\chem4\ecd7.i\230224.b\230224.b\02242307ECD7.D
Level 6: \\target\share\chem4\ecd7.i\230224.b\230224.b\02242305ECD7.D
Level 7: \\target\share\chem4\ecd7.i\230224.b\230224.b\02242312ECD7.D

Compound	20.000 Level 1	50.000 Level 2	100.000 Level 3	250.000 Level 4	500.000 Level 5	1000.000 Level 6	250.000 Level 7	RRF	% RSD
1 Aroclor-1221 [2C](1)	+++++	+++++	+++++	+++++	+++++	+++++	0.00757	0.00757	0.000
(2)	+++++	+++++	+++++	+++++	+++++	+++++	0.01433	0.01433	0.000
(3)	+++++	+++++	+++++	+++++	+++++	+++++	0.02333	0.02333	0.000
4 Aroclor-1232 [2C](1)	+++++	+++++	+++++	+++++	+++++	+++++	0.00409	0.00409	0.000
(2)	+++++	+++++	+++++	+++++	+++++	+++++	0.02034	0.02034	0.000
(3)	+++++	+++++	+++++	+++++	+++++	+++++	0.04067	0.04067	0.000
(4)	+++++	+++++	+++++	+++++	+++++	+++++	0.01170	0.01170	0.000
3 Aroclor-1242 [2C](1)	+++++	+++++	+++++	+++++	+++++	+++++	0.03717	0.03717	0.000

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2023 11:12
End Cal Date : 24-FEB-2023 14:42
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd7.i\230224.b\PCB.m\PCB2.m
Last Edit : 24-Feb-2023 15:29 richardl
Curve Type : Average

Compound	20.000 Level 1	50.000 Level 2	100.000 Level 3	250.000 Level 4	500.000 Level 5	1000.000 Level 6	250.000 Level 7	___ RRF	% RSD
(2)	+++++	+++++	+++++	+++++	+++++	+++++	0.07813	0.07813	0.000
(3)	+++++	+++++	+++++	+++++	+++++	+++++	0.02431	0.02431	0.000
(4)	+++++	+++++	+++++	+++++	+++++	+++++	0.02962	0.02962	0.000
6 Aroclor-1248 [2C](1)	+++++	+++++	+++++	+++++	+++++	+++++	0.03820	0.03820	0.000
(2)	+++++	+++++	+++++	+++++	+++++	+++++	0.03949	0.03949	0.000
(3)	+++++	+++++	+++++	+++++	+++++	+++++	0.04545	0.04545	0.000
(4)	+++++	+++++	+++++	+++++	+++++	+++++	0.05457	0.05457	0.000
7 Aroclor-1016 [2C](1)	0.05071	0.05022	0.04868	0.04733	0.04326	0.04080	+++++	0.04683	8.503
(2)	0.08143	0.09407	0.10159	0.10259	0.09651	0.09362	+++++	0.09497	8.025
(3)	0.04006	0.04718	0.04613	0.04410	0.04062	0.03926	+++++	0.04289	7.857
(4)	0.03181	0.03802	0.03707	0.03450	0.03115	0.02936	+++++	0.03365	10.251

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2023 11:12
End Cal Date : 24-FEB-2023 14:42
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd7.i\230224.b\PCB.m\PCB2.m
Last Edit : 24-Feb-2023 15:29 richardl
Curve Type : Average

Compound	20.000 Level 1	50.000 Level 2	100.000 Level 3	250.000 Level 4	500.000 Level 5	1000.000 Level 6	250.000 Level 7	___ RRF	% RSD
8 Aroclor-1254 [2C](1)	*****	*****	*****	*****	*****	*****	0.06081	0.06081	0.000
(2)	*****	*****	*****	*****	*****	*****	0.04892	0.04892	0.000
(3)	*****	*****	*****	*****	*****	*****	0.10584	0.10584	0.000
(4)	*****	*****	*****	*****	*****	*****	0.10317	0.10317	0.000
(5)	*****	*****	*****	*****	*****	*****	0.06282	0.06282	0.000
10 Aroclor-1262 [2C](1)	*****	*****	*****	*****	*****	*****	0.06831	0.06831	0.000
(2)	*****	*****	*****	*****	*****	*****	0.05818	0.05818	0.000
(3)	*****	*****	*****	*****	*****	*****	0.06601	0.06601	0.000
(4)	*****	*****	*****	*****	*****	*****	0.10341	0.10341	0.000
9 Aroclor-1260 [2C](1)	0.05286	0.04911	0.04696	0.04801	0.04329	0.04201	*****	0.04704	8.422
(2)	0.12976	0.12431	0.12095	0.12664	0.11320	0.10545	*****	0.12005	7.605

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2023 11:12
End Cal Date : 24-FEB-2023 14:42
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd7.i\230224.b\PCB.m\PCB2.m
Last Edit : 24-Feb-2023 15:29 richardl
Curve Type : Average

Compound	20.000 Level 1	50.000 Level 2	100.000 Level 3	250.000 Level 4	500.000 Level 5	1000.000 Level 6	250.000 Level 7	___ RRF	% RSD
(3)	0.03524	0.03147	0.02937	0.03208	0.03102	0.03198	#####	0.03186	6.045
(4)	0.08632	0.08237	0.08044	0.08393	0.07718	0.07531	#####	0.08092	5.126
11 Aroclor-1268 [2C](1)	#####	#####	#####	#####	#####	#####	0.16109	0.16109	0.000
(2)	#####	#####	#####	#####	#####	#####	0.17318	0.17318	0.000
(3)	#####	#####	#####	#####	#####	#####	0.14787	0.14787	0.000
(4)	#####	#####	#####	#####	#####	#####	0.47260	0.47260	0.000
41 2,4-DDE [2C]	#####	#####	#####	#####	#####	#####	#####	#####	#####
42 2,4-DDD [2C]	#####	#####	#####	#####	#####	#####	#####	#####	#####
44 4,4-DDE [2C]	#####	#####	#####	#####	#####	#####	#####	#####	#####
45 4,4-DDD/2,4-DDT [2C]	#####	#####	#####	#####	#####	#####	#####	#####	#####
46 4,4-DDT [2C]	#####	#####	#####	#####	#####	#####	#####	#####	#####

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2023 11:12
End Cal Date : 24-FEB-2023 14:42
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd7.i\230224.b\PCB.m\PCB2.m
Last Edit : 24-Feb-2023 15:29 richardl
Curve Type : Average

Compound	20.000 Level 1	50.000 Level 2	100.000 Level 3	250.000 Level 4	500.000 Level 5	1000.000 Level 6	250.000 Level 7	___ RRF	% RSD
48 Hexachlorobutadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
49 Hexachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 2 Tetrachloro-m-xylene [2C]	1.21526	1.19545	1.17555	1.21907	1.12560	1.11139	+++++	1.17372	3.897
$ 13 Decachlorobiphenyl [2C]	1.17066	1.20406	1.20549	1.31040	1.21104	1.20797	+++++	1.21827	3.898

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd7.i\230224.b\PCB.m
Batch File: \\target\share\chem4\ecd7.i\230224.b
Inst ID: ecd7.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06
FILENAME:	02242302ECD7	02242303ECD7	02242304ECD7	02242305ECD7	02242306ECD7	02242307ECD7
INJ.DATE:	24-FEB-2023	24-FEB-2023	24-FEB-2023	24-FEB-2023	24-FEB-2023	24-FEB-2023
INJ.TIME:	11:12	11:33	11:54	12:15	12:36	12:57

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
* 41 IS-BNB	3.493	3.492	3.492	3.492	3.491	3.491	3.493	3.393-3.593	3.492	0.001
$ 1 Tetrachloro-m-xylene	5.811	5.809	5.809	5.813	5.809	5.810	5.811	5.711-5.911	5.810	0.002
2 Aroclor-1221	+++++	+++++	+++++	+++++	+++++	+++++	4.732	4.632-4.832	+++++	+++++
3 Aroclor-1242	+++++	+++++	+++++	+++++	+++++	+++++	7.269	7.169-7.369	+++++	+++++
4 Aroclor-1232	+++++	+++++	+++++	+++++	+++++	+++++	4.732	4.632-4.832	+++++	+++++
7 Aroclor-1016	7.272	7.272	7.272	7.270	7.271	7.270	7.272	7.172-7.372	7.271	0.001
6 Aroclor-1248	+++++	+++++	+++++	+++++	+++++	+++++	8.403	8.303-8.503	+++++	+++++
8 Aroclor-1254	+++++	+++++	+++++	+++++	+++++	+++++	9.295	9.195-9.395	+++++	+++++
9 Aroclor-1260	11.046	11.047	11.046	11.044	11.045	11.044	11.046	10.946-11.146	11.045	0.001
10 Aroclor-1262	+++++	+++++	+++++	+++++	+++++	+++++	10.824	10.724-10.924	+++++	+++++
11 Aroclor-1268	+++++	+++++	+++++	+++++	+++++	+++++	12.243	12.143-12.343	+++++	+++++
$ 13 Decachlorobiphenyl	13.897	13.893	13.893	13.899	13.892	13.898	13.897	13.797-13.997	13.895	0.003
* 12 IS-HBBP	14.269	14.268	14.268	14.267	14.268	14.268	14.269	14.169-14.369	14.268	0.001
42 2,4-DDE	+++++	+++++	+++++	+++++	+++++	+++++	9.260	9.210-9.310	+++++	+++++
43 2,4-DDD	+++++	+++++	+++++	+++++	+++++	+++++	9.801	9.751-9.851	+++++	+++++
44 2,4-DDT	+++++	+++++	+++++	+++++	+++++	+++++	10.293	10.243-10.343	+++++	+++++
46 4,4-DDE	+++++	+++++	+++++	+++++	+++++	+++++	9.683	9.583-9.783	+++++	+++++

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

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd7.i\230224.b\PCB.m
Batch File: \\target\share\chem4\ecd7.i\230224.b
Inst ID: ecd7.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
47 4,4-DDD	+++++	+++++	+++++	+++++	+++++	+++++	10.254	10.154-10.354	+++++	+++++
48 4,4-DDT	+++++	+++++	+++++	+++++	+++++	+++++	10.754	10.654-10.854	+++++	+++++
49 Hexachlorobutadiene	+++++	+++++	+++++	+++++	+++++	+++++	1.842	1.742-1.942	+++++	+++++
50 Hexachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	6.708	6.608-6.808	+++++	+++++

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd7.i\230224.b\PCB.m\PCB2.m
Batch File: \\target\share\chem4\ecd7.i\230224.b\230224.b
Inst ID: ecd7.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06
FILENAME:	02242302ECD7	02242303ECD7	02242304ECD7	02242305ECD7	02242306ECD7	02242307ECD7
INJ.DATE:	24-FEB-2023	24-FEB-2023	24-FEB-2023	24-FEB-2023	24-FEB-2023	24-FEB-2023
INJ.TIME:	11:12	11:33	11:54	12:15	12:36	12:57

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
* 40 IS-BNB [2C]	3.928	3.929	3.929	3.929	3.928	3.929	3.928	3.828-4.028	3.929	0.000
$ 2 Tetrachloro-m-xylene [	5.687	5.688	5.688	5.688	5.688	5.688	5.687	5.587-5.787	5.688	0.001
1 Aroclor-1221 [2C]	+++++	+++++	+++++	+++++	+++++	+++++	4.958	4.858-5.058	+++++	+++++
4 Aroclor-1232 [2C]	+++++	+++++	+++++	+++++	+++++	+++++	4.958	4.859-5.059	+++++	+++++
3 Aroclor-1242 [2C]	+++++	+++++	+++++	+++++	+++++	+++++	7.254	7.154-7.354	+++++	+++++
6 Aroclor-1248 [2C]	+++++	+++++	+++++	+++++	+++++	+++++	8.305	8.205-8.405	+++++	+++++
7 Aroclor-1016 [2C]	7.255	7.256	7.256	7.254	7.255	7.256	7.255	7.155-7.355	7.255	0.001
8 Aroclor-1254 [2C]	+++++	+++++	+++++	+++++	+++++	+++++	9.447	9.347-9.547	+++++	+++++
10 Aroclor-1262 [2C]	+++++	+++++	+++++	+++++	+++++	+++++	11.198	11.098-11.298	+++++	+++++
9 Aroclor-1260 [2C]	11.653	11.656	11.655	11.652	11.655	11.653	11.653	11.553-11.753	11.654	0.001
11 Aroclor-1268 [2C]	+++++	+++++	+++++	+++++	+++++	+++++	12.431	12.331-12.531	+++++	+++++
$ 13 Decachlorobiphenyl [2C	14.120	14.120	14.119	14.122	14.119	14.120	14.120	14.020-14.220	14.120	0.001
* 12 IS-HBBP [2C]	15.008	15.008	15.008	15.008	15.007	15.008	15.008	14.908-15.108	15.008	0.000
41 2,4-DDE [2C]	+++++	+++++	+++++	+++++	+++++	+++++	9.911	9.861-9.961	+++++	+++++
42 2,4-DDD [2C]	+++++	+++++	+++++	+++++	+++++	+++++	9.536	9.486-9.586	+++++	+++++
44 4,4-DDE [2C]	+++++	+++++	+++++	+++++	+++++	+++++	10.209	10.109-10.309	+++++	+++++
45 4,4-DDD/2,4-DDT [2C]	+++++	+++++	+++++	+++++	+++++	+++++	10.667	10.567-10.767	+++++	+++++

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

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd7.i\230224.b\PCB.m\PCB2.m
Batch File: \\target\share\chem4\ecd7.i\230224.b\230224.b
Inst ID: ecd7.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
46 4,4-DDT [2C]	+++++	+++++	+++++	+++++	+++++	+++++	11.092	10.992-11.192	+++++	+++++
48 Hexachlorobutadiene	+++++	+++++	+++++	+++++	+++++	+++++	1.703	1.603-1.803	+++++	+++++
49 Hexachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	7.178	7.078-7.278	+++++	+++++

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230224.b/02242301ECD7.D
Data file 2: /230224.b/230224.b/02242301ECD7.D
Method: \\target\share\chem4\ecd7.i\230224.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: IB
Client ID:
Injection Date: 24-FEB-2023 10:51
Report Date: 02/28/2023 09:50
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.826	0.019	382217	5.683	-0.002	180378	33.8	36.5	7.7	Tetrachloro-m-xylene
13.904	0.011	534110	14.120	0.001	295605	35.3	37.2	5.2	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	756896	12.3
Hexabromobiphenyl	1429847	1534275	7.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	336543	6.8
Hexabromobiphenyl	513946	521508	1.5

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	6.321	0.025	1873	31.1
Aroclor-1221	3	---			0.0	3	6.633	0.012	314	3.2
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	7.698	0.043	2193	6.0	3	---			0.0
Aroclor-1232	4	8.505	-0.076	11525	74.5	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	7.698	0.042	2193	3.1	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	8.505	-0.074	11525	35.2	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1248	1	---			0.0	1	---			0.0
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	---			0.0
Aroclor-1248	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1254	1	---			0.0	1	---			0.0
Aroclor-1254	2	---			0.0	2	---			0.0
Aroclor-1254	3	9.596	-0.072	31424	64.3	3	---			0.0
Aroclor-1254	4	---			0.0	4	---			0.0
Aroclor-1254	5	10.167	-0.010	18361	30.8	5	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1260	1	11.098	0.054	6994	12.7	1	---			0.0
Aroclor-1260	2	---			0.0	2	---			0.0
Aroclor-1260	3	11.706	-0.027	7806	5.1	3	---			0.0
Aroclor-1260	4	---			0.0	4	---			0.0
Aroclor-1260	5	---			0.0	NS	---			----
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1262	1	10.824	-0.005	16873	35.8	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	13.040	0.053	14031	18.6	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	12.709	0.009	6037	3.6	3	12.891	-0.001	659	0.7
Aroclor-1268	4	13.499	0.010	12396	2.3	4	13.710	0.001	1848	0.6
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			

Total PCB Area Col1 (5.906 - 13.793) = 260205 Col1 Total PCB = 0.0 ppm*

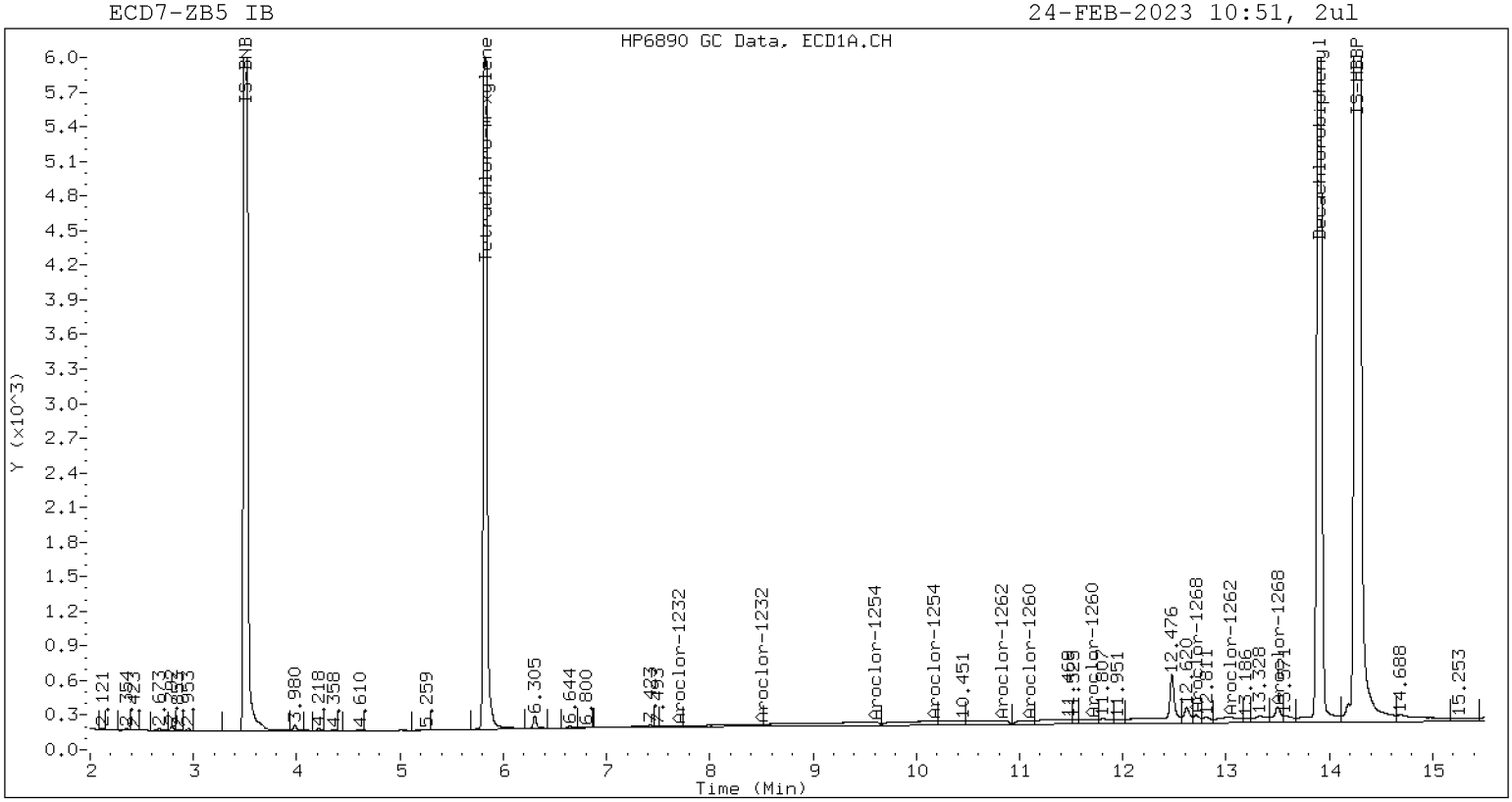
Total PCB Area Col2 (5.785 - 14.019) = 18252 Col2 Total PCB = 0.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

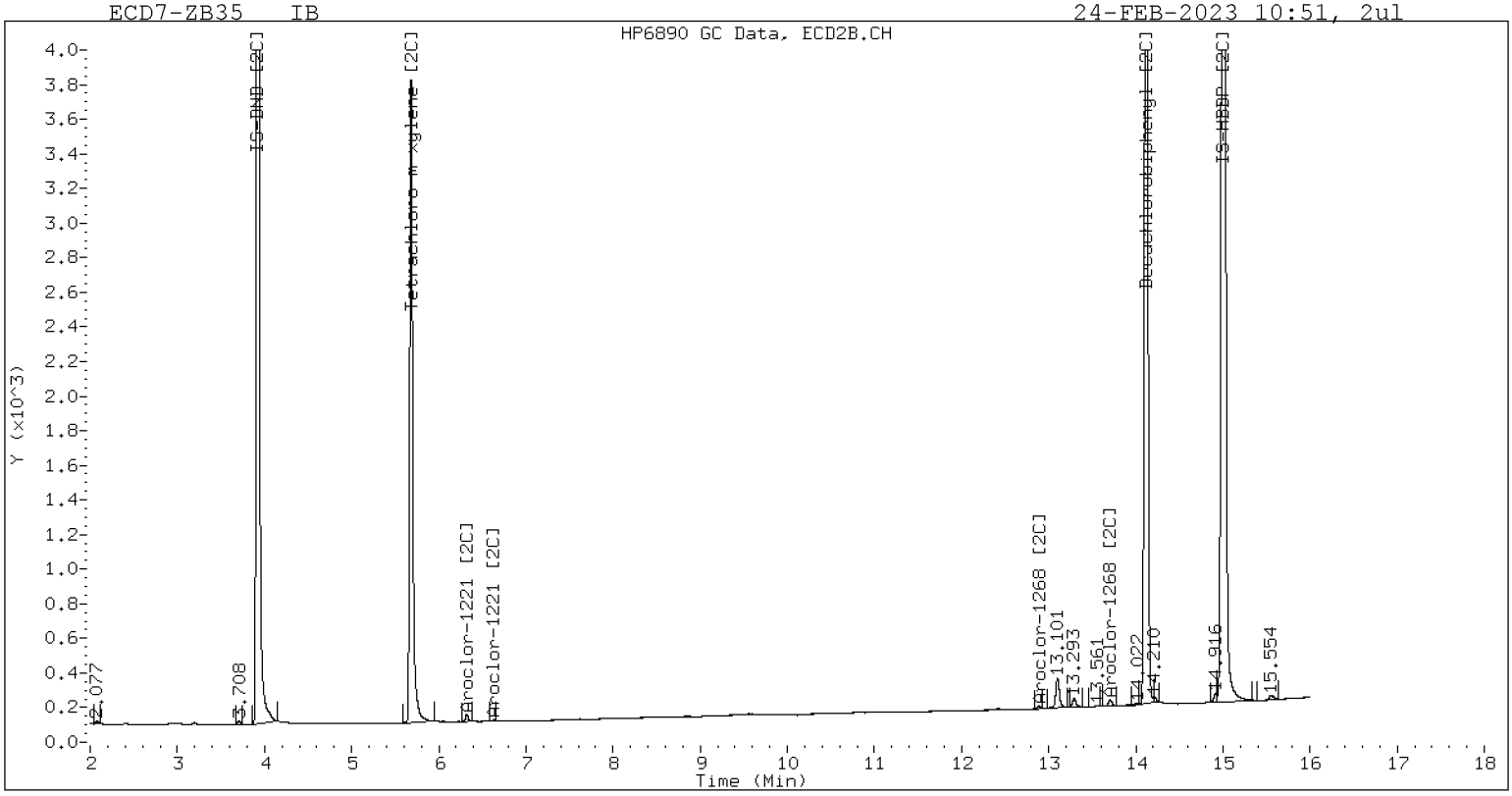
PCB Dual Column Chromatograms

ECD7-ZB5 IB 24-FEB-2023 10:51, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 IB 24-FEB-2023 10:51, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230224.b/02242302ECD7.D
Data file 2: /230224.b/230224.b/02242302ECD7.D
Method: \\target\share\chem4\ecd7.i\230224.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 0.25PPMAR1660
Client ID:
Injection Date: 24-FEB-2023 11:12
Report Date: 02/28/2023 09:50
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.811	0.005	405980	5.687	0.002	192160	40.4	41.5	2.9	Tetrachloro-m-xylene
13.897	0.004	563414	14.120	0.001	336737	40.0	43.0	7.3	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	673778	0.0
Hexabromobiphenyl	1429847	1429847	0.0

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	315256	0.0
Hexabromobiphenyl	513946	513946	0.0

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1016	1	7.272	0.001	66125	258.4	1	7.255	-0.001	46626	252.6
Aroclor-1016	2	7.654	-0.000	207370	265.8	2	7.855	-0.001	101071	270.1
Aroclor-1016	3	7.792	0.002	92507	242.9	3	8.055	0.001	43448	257.1
Aroclor-1016	4	8.406	0.001	64388	261.5	4	8.306	-0.000	33986	256.3
Total Col1Ave (4 peaks):					257.2	Total Col2Ave (4 peaks):				259.0 RPD = 1
Corrected Ave (3 peaks):					254.3	Corrected Ave (3 peaks):				255.3 RPD = 0
CalAmt %D:					2.9	CalAmt %D:				3.6
Aroclor-1260	1	11.046	0.001	138355	269.0	1	11.653	0.001	77114	255.2
Aroclor-1260	2	11.363	0.002	147051	273.6	2	11.918	0.001	203401	263.7
Aroclor-1260	3	11.736	0.003	383171	268.8	3	12.435	-0.000	51517	251.7
Aroclor-1260	4	12.141	0.002	200399	279.2	4	12.502	0.001	134797	259.3
Aroclor-1260	5	12.247	0.003	83796	271.2	NS	---			----
Total Col1Ave (5 peaks):					272.4	Total Col2Ave (4 peaks):				257.5 RPD = 6
Corrected Ave (4 peaks):					270.7	Corrected Ave (3 peaks):				255.4 RPD = 6
CalAmt %D:					8.9	CalAmt %D:				3.0

Total PCB Area Col1 (5.906 - 13.793) = 4024419 Col1 Total PCB = 0.5 ppm*

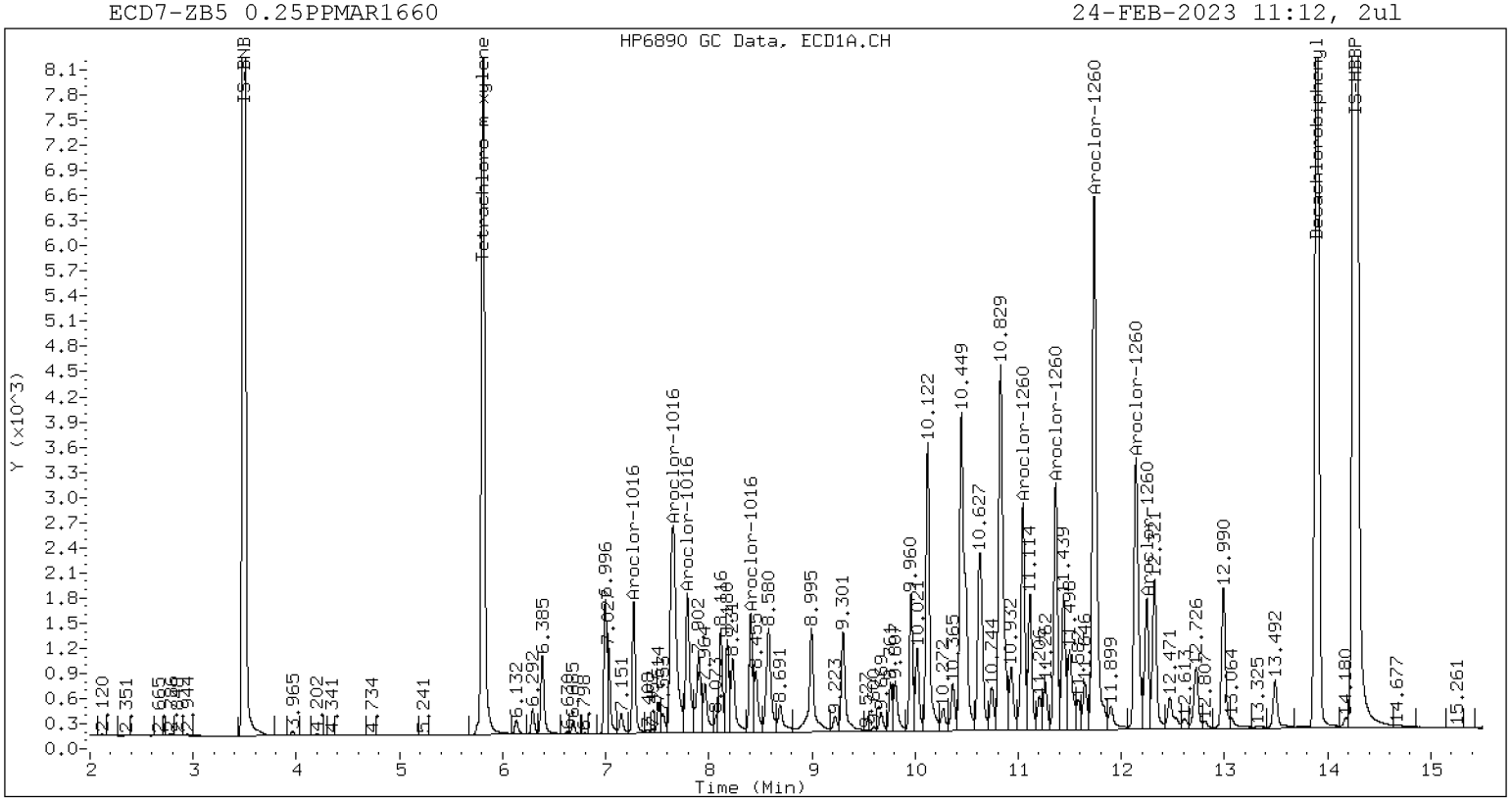
Total PCB Area Col2 (5.785 - 14.019) = 1889311 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

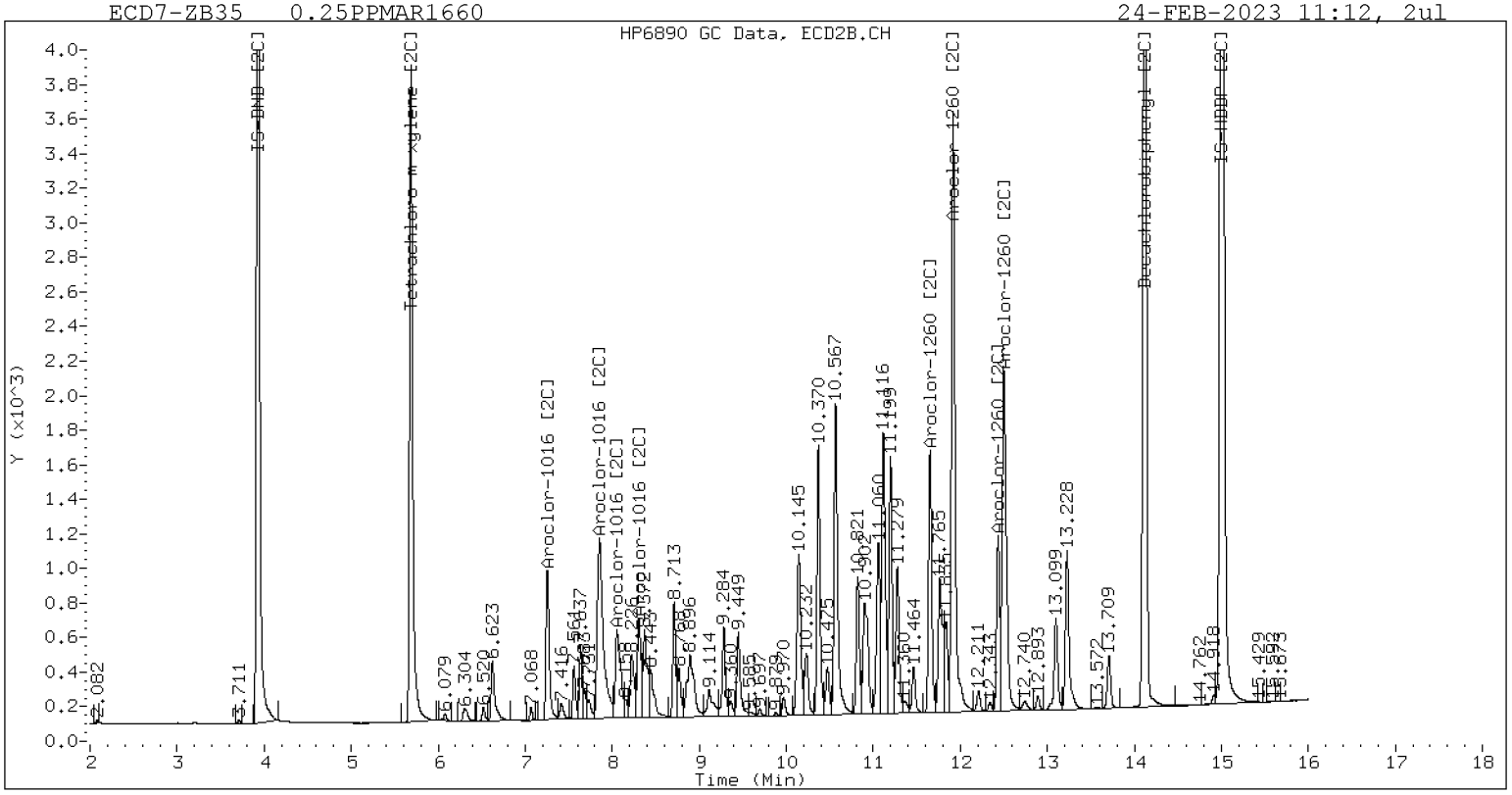
PCB Dual Column Chromatograms

ECD7-ZB5 0.25PPMAR1660 24-FEB-2023 11:12, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.25PPMAR1660 24-FEB-2023 11:12, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230224.b/02242303ECD7.D
Data file 2: /230224.b/230224.b/02242303ECD7.D
Method: \\target\share\chem4\ecd7.i\230224.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 0.02PPMAR1660
Client ID:
Injection Date: 24-FEB-2023 11:33
Report Date: 02/28/2023 09:50
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.809	0.002	29768	5.688	0.003	14932	3.1	3.3	5.7	Tetrachloro-m-xylene
13.893	0.000	45992	14.120	0.000	23950	3.4	3.1	9.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	637010	-5.5
Hexabromobiphenyl	1429847	1386953	-3.0

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	307177	-2.6
Hexabromobiphenyl	513946	511463	-0.5

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.272	0.001	5052	20.9	1	7.256	0.000	3894	21.7
Aroclor-1016	2	7.659	0.005	14714	19.9	2	7.864	0.008	6253	17.1
Aroclor-1016	3	7.795	0.005	8226	22.8	3	8.060	0.006	3076	18.7
Aroclor-1016	4	8.407	0.002	4780	20.5	4	8.309	0.002	2443	18.9
Total Col1Ave (4 peaks):					21.1	Total Col2Ave (4 peaks):				19.1 RPD = 10
Corrected Ave (3 peaks):					20.5	Corrected Ave (3 peaks):				18.2 RPD = 11
CalAmt %D:					5.3	CalAmt %D:				-4.5
Aroclor-1260	1	11.047	0.003	10147	20.3	1	11.656	0.003	6759	22.5
Aroclor-1260	2	11.364	0.003	10287	19.7	2	11.922	0.005	16592	21.6
Aroclor-1260	3	11.740	0.006	28043	20.3	3	12.438	0.002	4506	22.1
Aroclor-1260	4	12.145	0.006	13540	19.4	4	12.505	0.004	11037	21.3
Aroclor-1260	5	12.246	0.002	6182	20.6	NS	---			----
Total Col1Ave (5 peaks):					20.1	Total Col2Ave (4 peaks):				21.9 RPD = 9
Corrected Ave (4 peaks):					19.9	Corrected Ave (3 peaks):				21.7 RPD = 8
CalAmt %D:					0.4	CalAmt %D:				9.4

Total PCB Area Col1 (5.906 - 13.793) = 324832 Col1 Total PCB = 0.0 ppm*

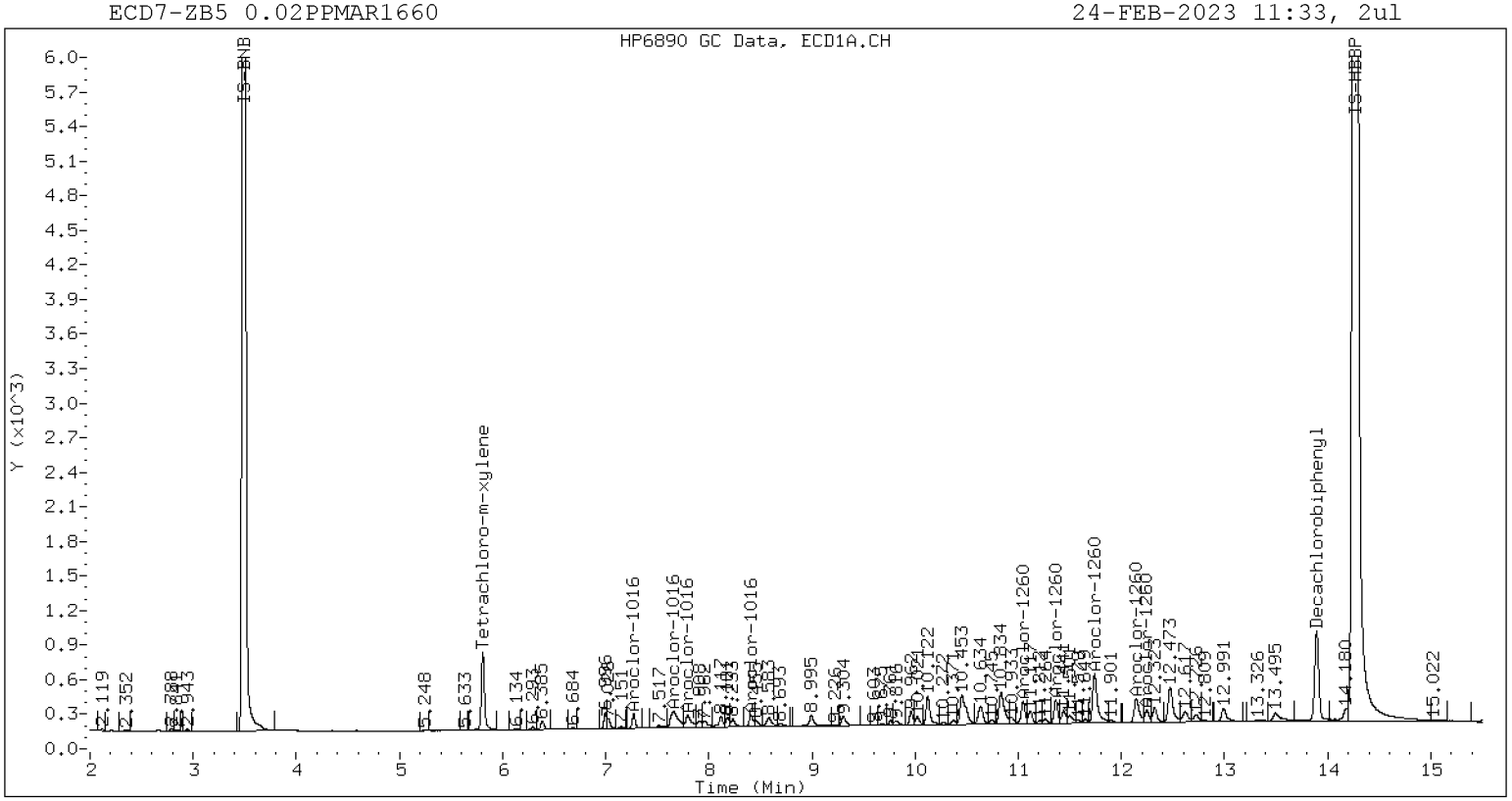
Total PCB Area Col2 (5.785 - 14.019) = 157149 Col2 Total PCB = 0.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

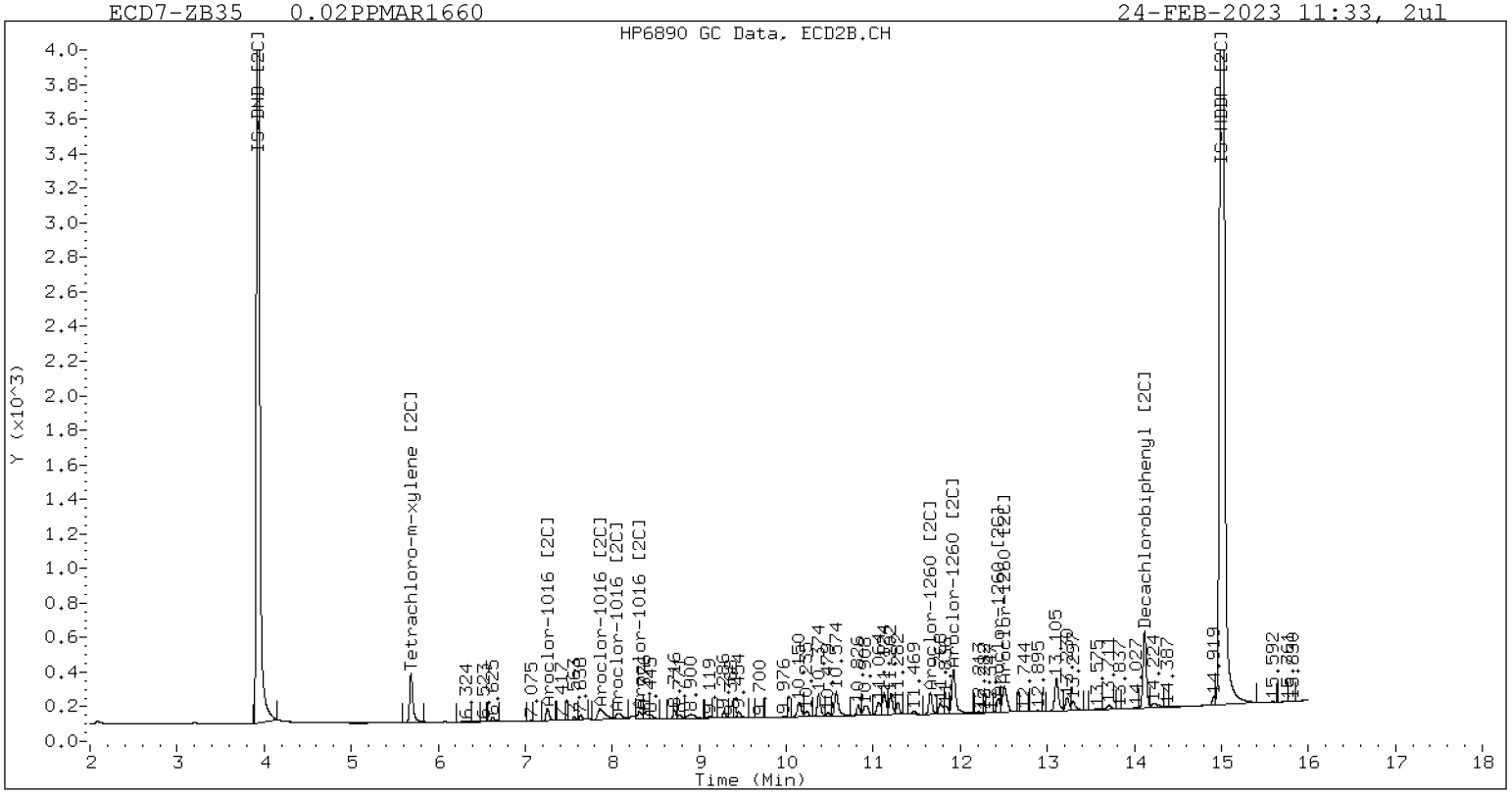
PCB Dual Column Chromatograms

ECD7-ZB5 0.02PPMAR1660 24-FEB-2023 11:33, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.02PPMAR1660 24-FEB-2023 11:33, 2ul

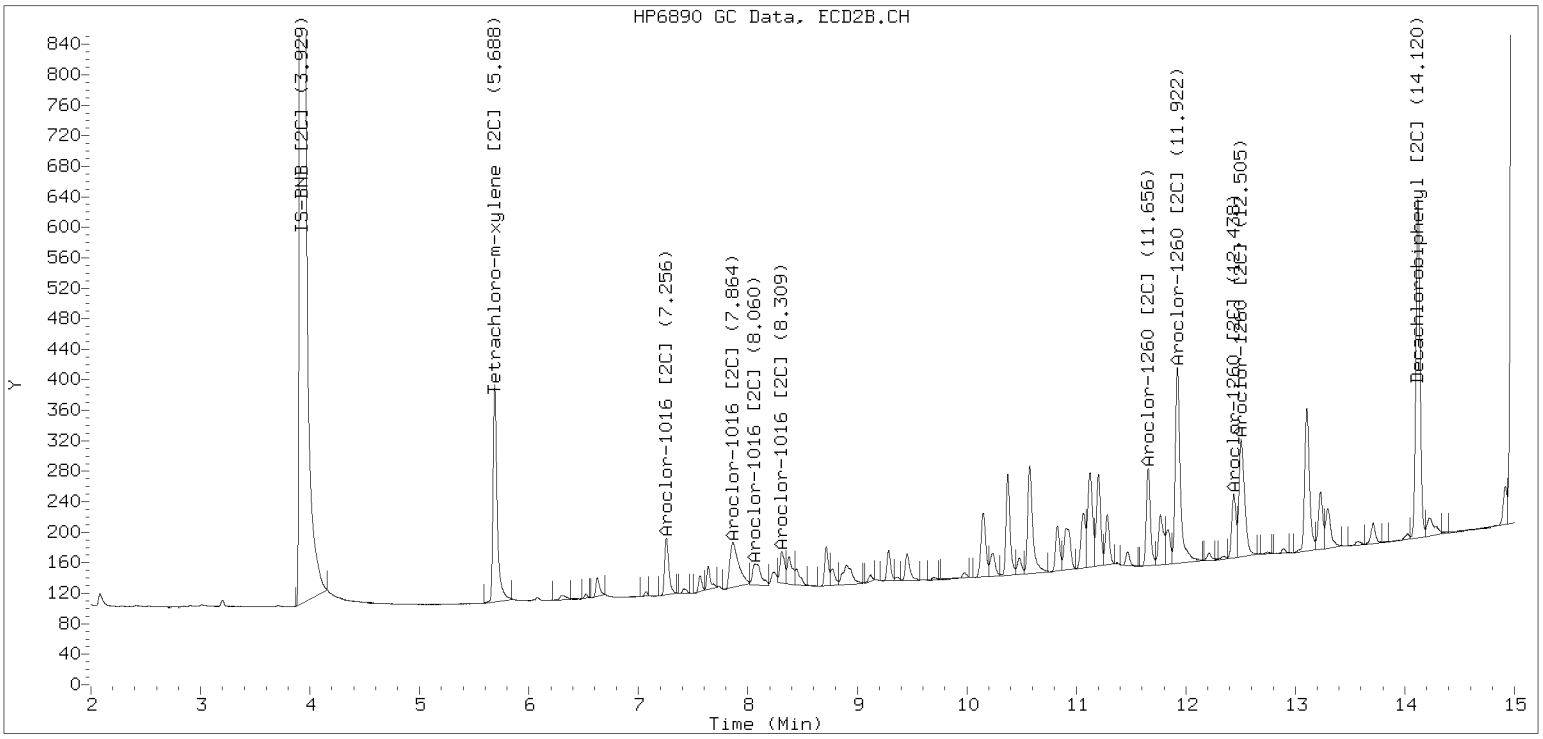


ZB-35 Manual Integration: YES

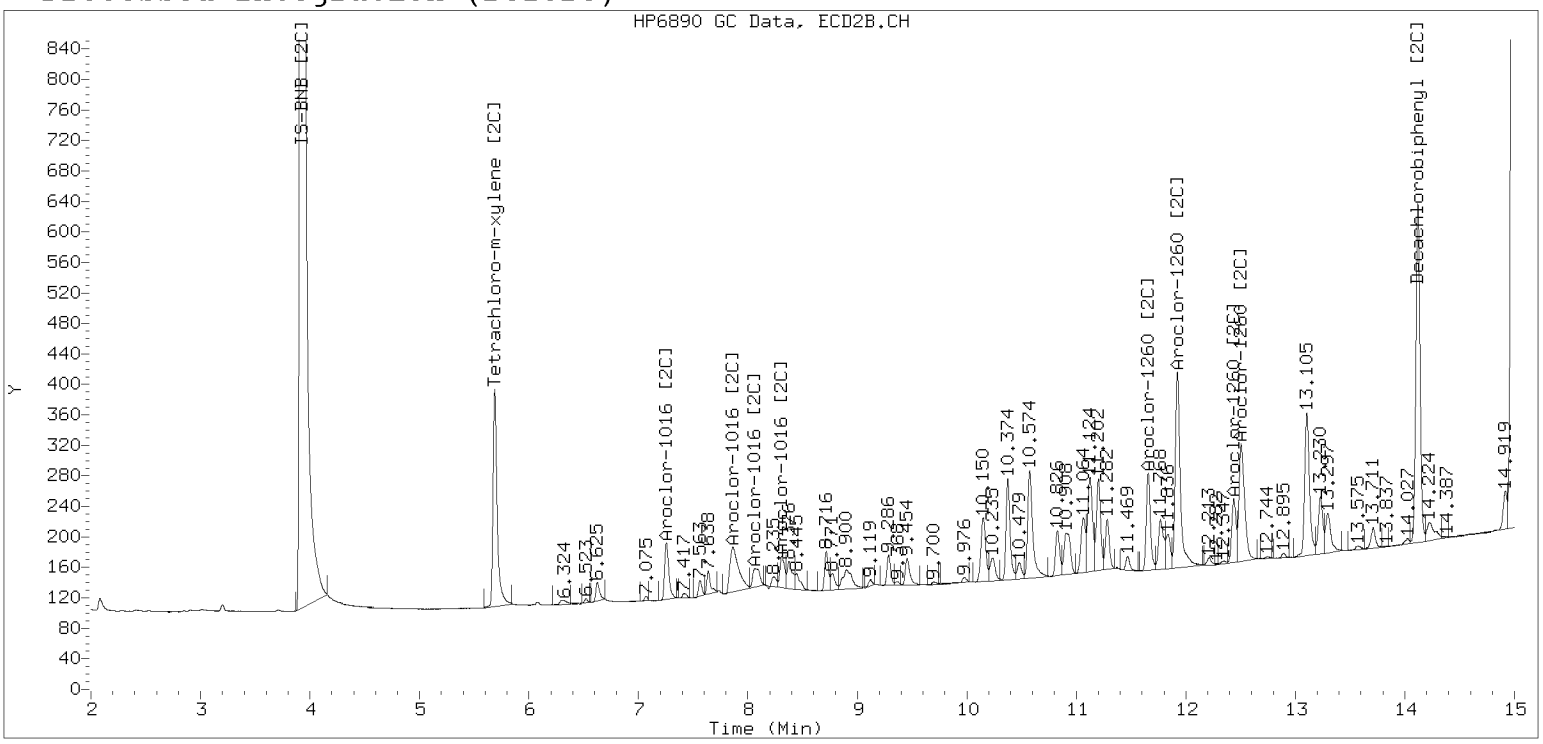
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230224.b/230224.b/02242303ECD7.D Injection Date: 24-FEB-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230224.b/02242304ECD7.D
Data file 2: /230224.b/230224.b/02242304ECD7.D
Method: \\target\share\chem4\ecd7.i\230224.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 0.05PPMAR1660
Client ID:
Injection Date: 24-FEB-2023 11:54
Report Date: 02/28/2023 09:50
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.809	0.003	78493	5.688	0.003	36772	8.3	8.1	2.2	Tetrachloro-m-xylene
13.893	-0.000	113544	14.119	-0.000	62745	8.2	7.9	3.4	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	630965	-6.4
Hexabromobiphenyl	1429847	1409464	-1.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	307599	-2.4
Hexabromobiphenyl	513946	521112	1.4

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	ZB5 Col Area	Amount	Peak#	RT	Shift	ZB35 Col Area	Amount
Aroclor-1016	1	7.272	0.002	12829	53.5	1	7.256	0.000	9654	53.6
Aroclor-1016	2	7.660	0.006	36461	49.9	2	7.864	0.008	18085	49.5
Aroclor-1016	3	7.795	0.005	19865	55.7	3	8.063	0.008	9071	55.0
Aroclor-1016	4	8.408	0.003	11411	49.5	4	8.310	0.003	7309	56.5
Total Col1Ave (4 peaks):					52.2	Total Col2Ave (4 peaks):				53.7 RPD = 3
Corrected Ave (3 peaks):					51.0	Corrected Ave (3 peaks):				52.7 RPD = 3
CalAmt %D:					4.3	CalAmt %D:				7.3
Aroclor-1260	1	11.046	0.002	25727	50.7	1	11.655	0.002	15996	52.2
Aroclor-1260	2	11.363	0.002	26482	50.0	2	11.922	0.004	40487	51.8
Aroclor-1260	3	11.739	0.005	70871	50.4	3	12.437	0.002	10248	49.4
Aroclor-1260	4	12.143	0.004	34239	48.4	4	12.506	0.004	26828	50.9
Aroclor-1260	5	12.246	0.002	15109	49.6	NS	---			----
Total Col1Ave (5 peaks):					49.8	Total Col2Ave (4 peaks):				51.1 RPD = 2
Corrected Ave (4 peaks):					49.6	Corrected Ave (3 peaks):				50.7 RPD = 2
CalAmt %D:					-0.3	CalAmt %D:				2.1

Total PCB Area Col1 (5.906 - 13.793) = 758292 Col1 Total PCB = 0.1 ppm*

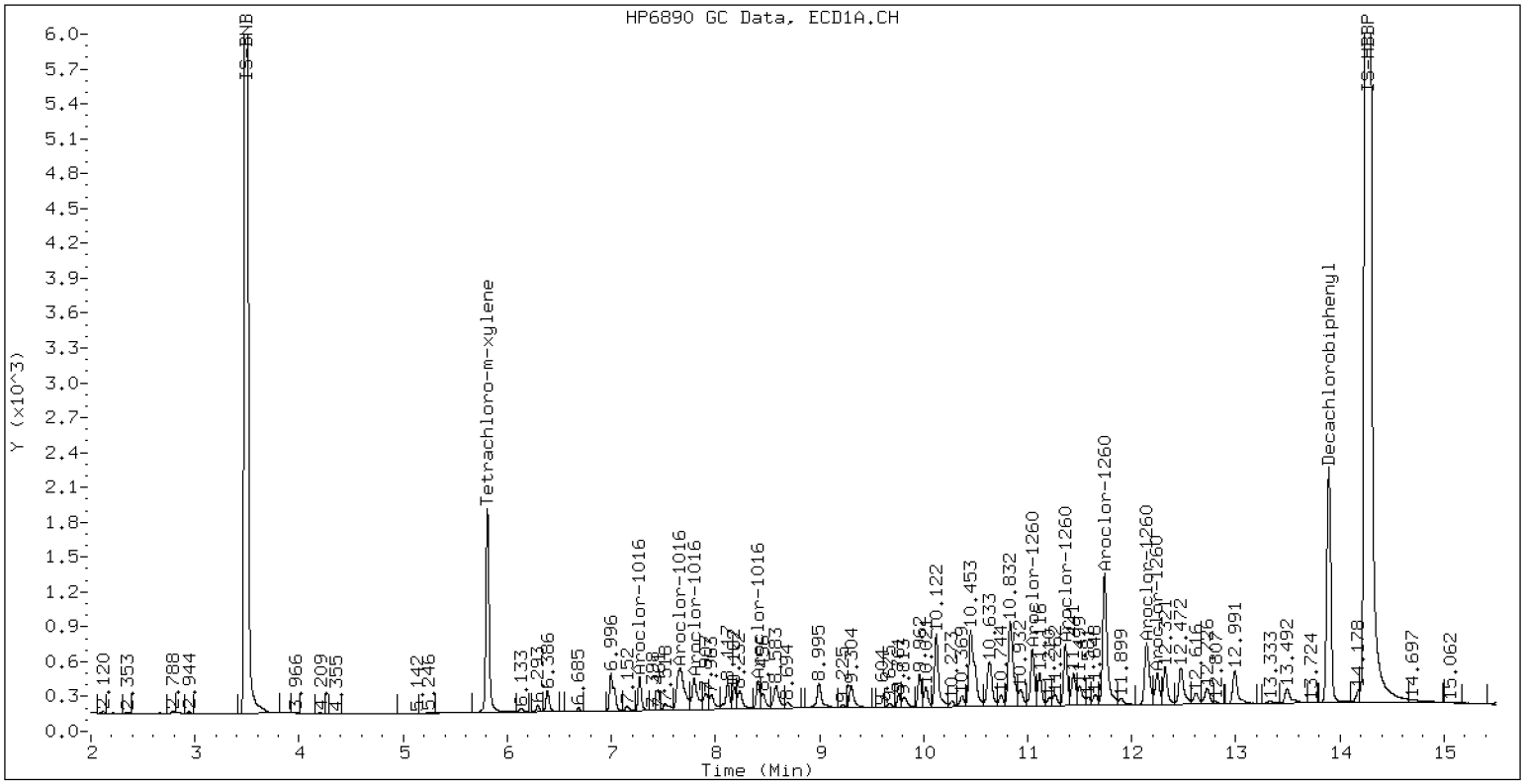
Total PCB Area Col2 (5.785 - 14.019) = 386383 Col2 Total PCB = 0.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

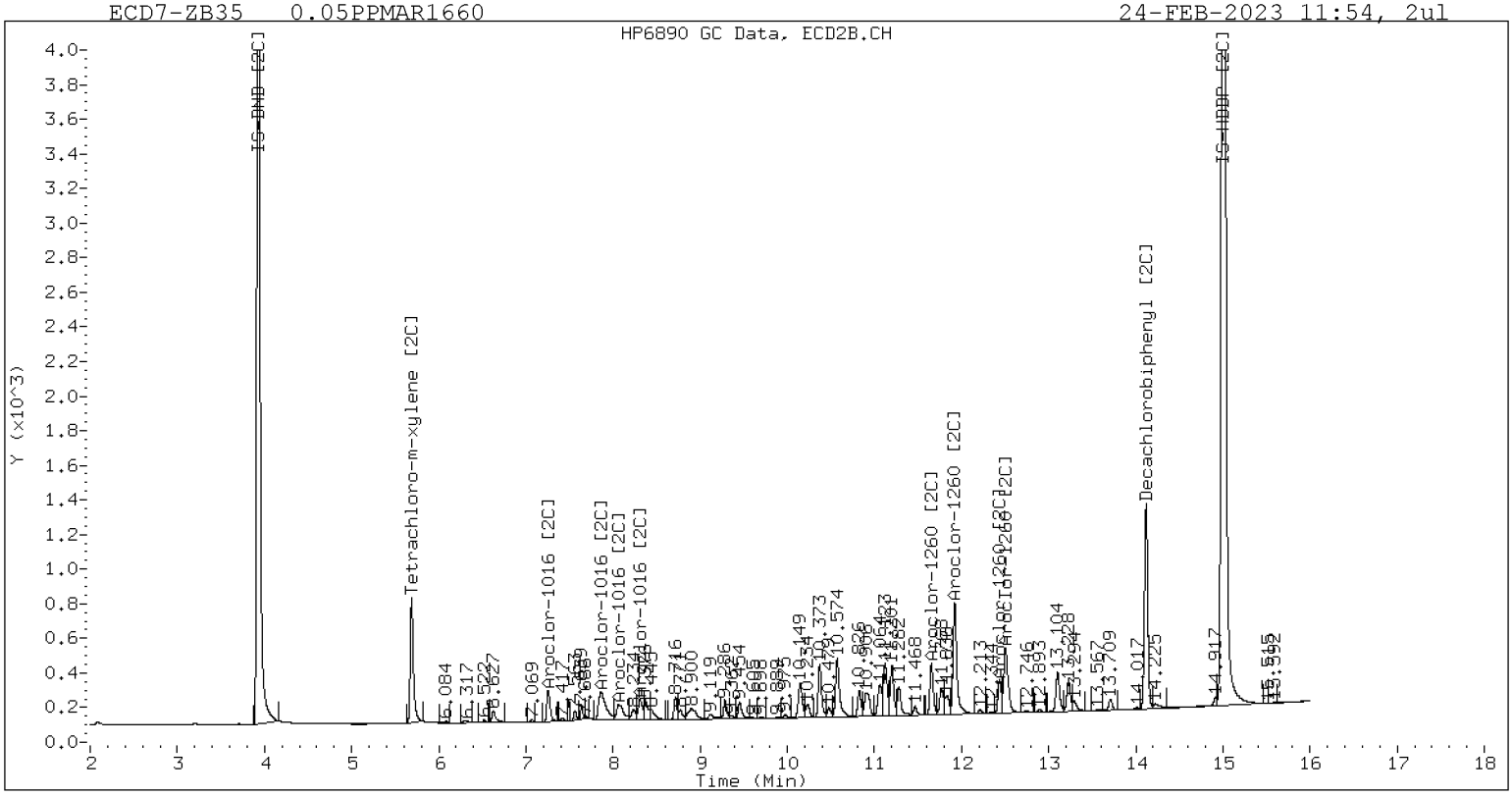
PCB Dual Column Chromatograms

ECD7-ZB5 0.05PPMAR1660 24-FEB-2023 11:54, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.05PPMAR1660 24-FEB-2023 11:54, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230224.b/02242305ECD7.D
Data file 2: /230224.b/230224.b/02242305ECD7.D
Method: \\target\share\chem4\ecd7.i\230224.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 1.0PPMAR1660
Client ID:
Injection Date: 24-FEB-2023 12:15
Report Date: 02/28/2023 09:50
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.813	0.006	1641874	5.688	0.003	709674	166.2	151.5	9.3	Tetrachloro-m-xylene
13.899	0.006	2344583	14.122	0.002	1300114	161.9	158.6	2.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	661440	-1.8
Hexabromobiphenyl	1429847	1470100	2.8

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	319272	1.3
Hexabromobiphenyl	513946	538138	4.7

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.270	-0.000	220519	877.8	1	7.254	-0.001	162833	871.2
Aroclor-1016	2	7.652	-0.002	731607	955.3	2	7.852	-0.004	373610	985.8
Aroclor-1016	3	7.789	-0.001	307629	822.8	3	8.051	-0.003	156666	915.2
Aroclor-1016	4	8.404	-0.001	229387	949.1	4	8.305	-0.002	117186	872.6
Total Col1Ave (4 peaks):					901.3	Total Col2Ave (4 peaks):				911.2
Corrected Ave (3 peaks):					883.3	Corrected Ave (3 peaks):				886.3
CalAmt %D:					-9.9	CalAmt %D:				-8.9
Aroclor-1260	1	11.044	-0.000	504641	954.2	1	11.652	-0.000	282606	893.1
Aroclor-1260	2	11.360	-0.001	524931	950.0	2	11.917	-0.000	709329	878.4
Aroclor-1260	3	11.734	-0.000	1410270	962.3	3	12.434	-0.001	215124	1003.8
Aroclor-1260	4	12.137	-0.002	720770	976.7	4	12.501	-0.001	506566	930.6
Aroclor-1260	5	12.243	-0.001	304211	957.7	NS	---			----
Total Col1Ave (5 peaks):					960.2	Total Col2Ave (4 peaks):				926.5
Corrected Ave (4 peaks):					956.0	Corrected Ave (3 peaks):				900.7
CalAmt %D:					-4.0	CalAmt %D:				-7.4

Total PCB Area Col1 (5.906 - 13.793) = 14454279 Col1 Total PCB = 1.8 ppm*

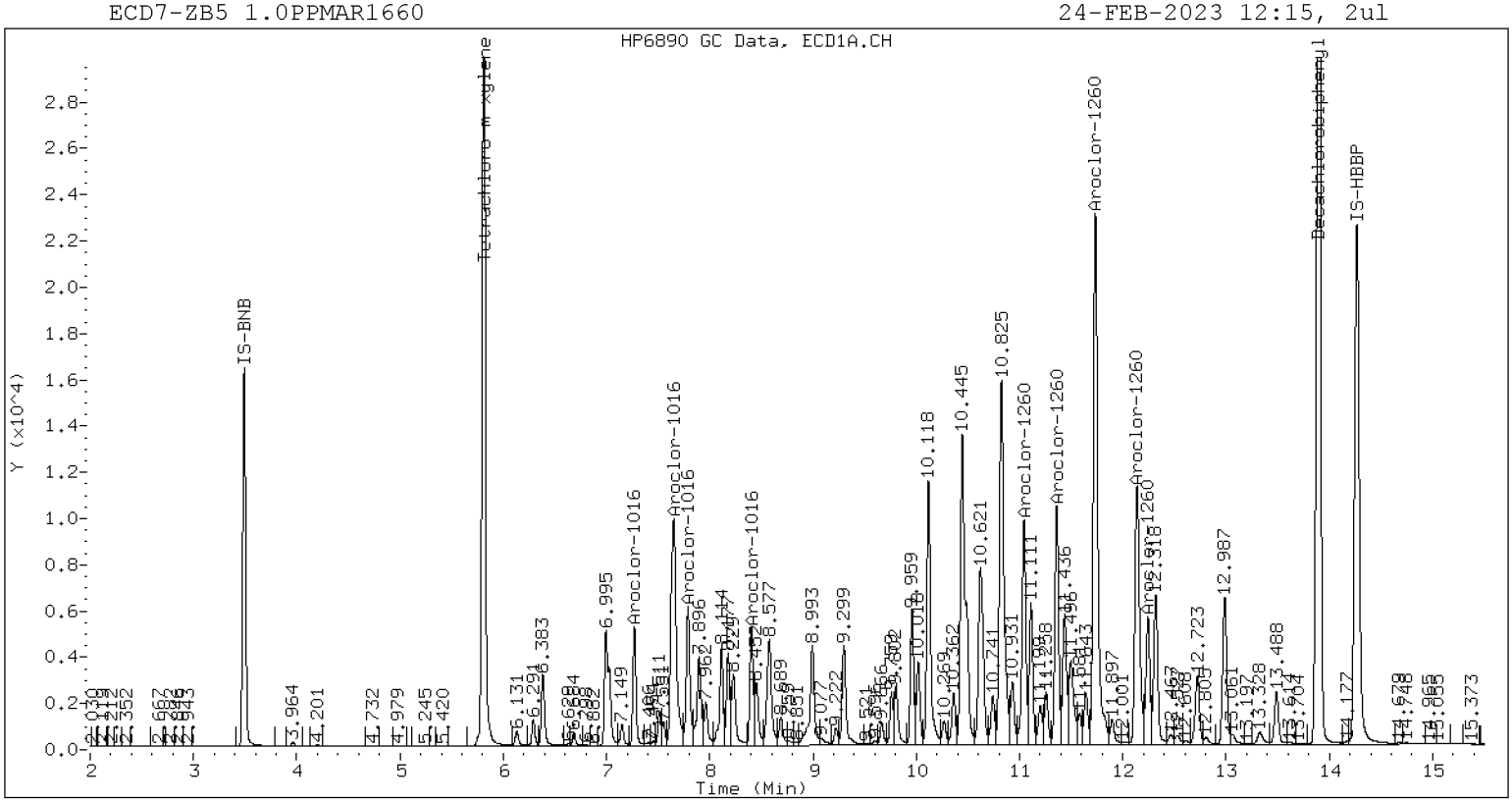
Total PCB Area Col2 (5.785 - 14.019) = 7029563 Col2 Total PCB = 1.8 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

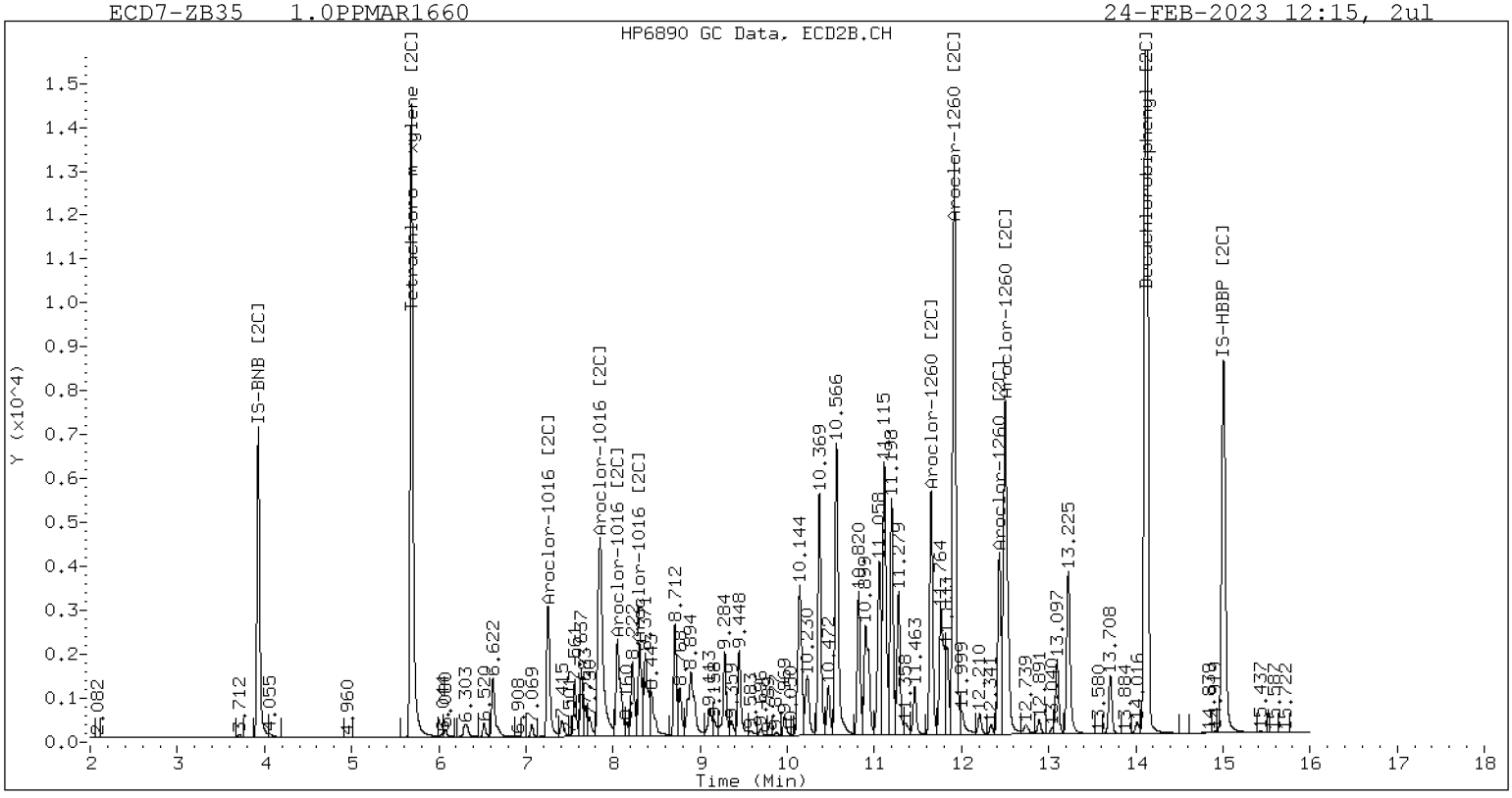
PCB Dual Column Chromatograms

ECD7-ZB5 1.0PPMAR1660 24-FEB-2023 12:15, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 1.0PPMAR1660 24-FEB-2023 12:15, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230224.b/02242306ECD7.D
Data file 2: /230224.b/230224.b/02242306ECD7.D
Method: \\target\share\chem4\ecd7.i\230224.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 0.1PPMAR1660
Client ID:
Injection Date: 24-FEB-2023 12:36
Report Date: 02/28/2023 09:50
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.809	0.002	155528	5.688	0.003	74628	15.9	16.0	0.9	Tetrachloro-m-xylene
13.892	-0.001	227253	14.119	-0.000	128496	15.8	15.8	0.5	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	655979	-2.6
Hexabromobiphenyl	1429847	1464509	2.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	317418	0.7
Hexabromobiphenyl	513946	532962	3.7

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1016	1	7.271	0.000	25761	103.4	1	7.255	-0.000	19315	103.9
Aroclor-1016	2	7.657	0.003	75616	99.6	2	7.863	0.007	40308	107.0
Aroclor-1016	3	7.794	0.004	39547	106.7	3	8.059	0.005	18304	107.6
Aroclor-1016	4	8.406	0.001	24260	101.2	4	8.309	0.002	14708	110.2
Total Col1Ave (4 peaks):					102.7	Total Col2Ave (4 peaks):				107.2 RPD = 4
Corrected Ave (3 peaks):					101.4	Corrected Ave (3 peaks):				106.2 RPD = 5
CalAmt %D:					2.7	CalAmt %D:				7.2
Aroclor-1260	1	11.045	0.000	52009	98.7	1	11.655	0.002	31282	99.8
Aroclor-1260	2	11.362	0.001	55116	100.1	2	11.920	0.003	80574	100.7
Aroclor-1260	3	11.738	0.004	145604	99.7	3	12.437	0.002	19566	92.2
Aroclor-1260	4	12.141	0.002	72408	98.5	4	12.503	0.001	53588	99.4
Aroclor-1260	5	12.245	0.001	30745	97.2	NS	---			----
Total Col1Ave (5 peaks):					98.8	Total Col2Ave (4 peaks):				98.0 RPD = 1
Corrected Ave (4 peaks):					98.5	Corrected Ave (3 peaks):				97.1 RPD = 1
CalAmt %D:					-1.2	CalAmt %D:				-2.0

Total PCB Area Col1 (5.906 - 13.793) = 1555762 Col1 Total PCB = 0.2 ppm*

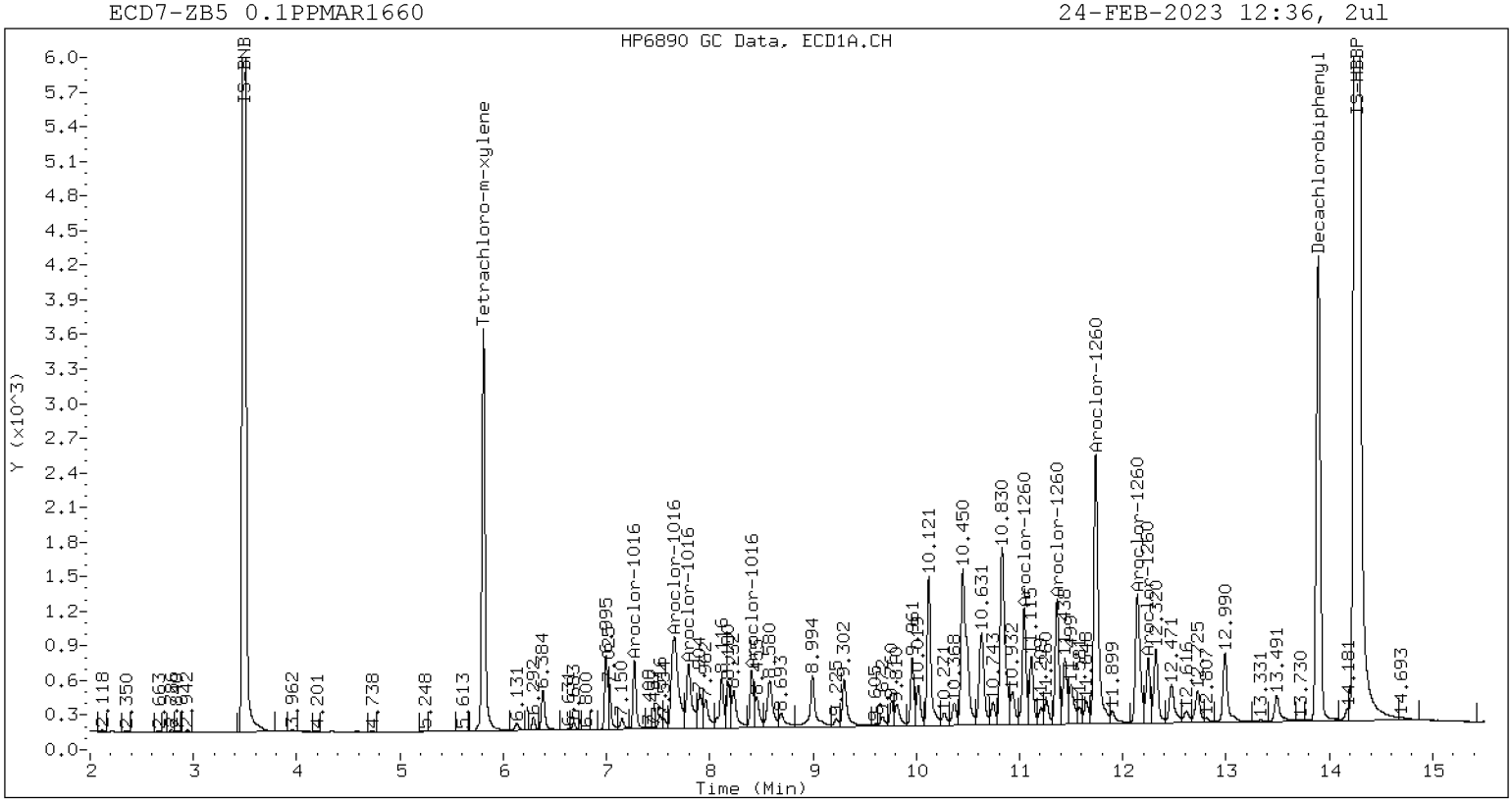
Total PCB Area Col2 (5.785 - 14.019) = 764924 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

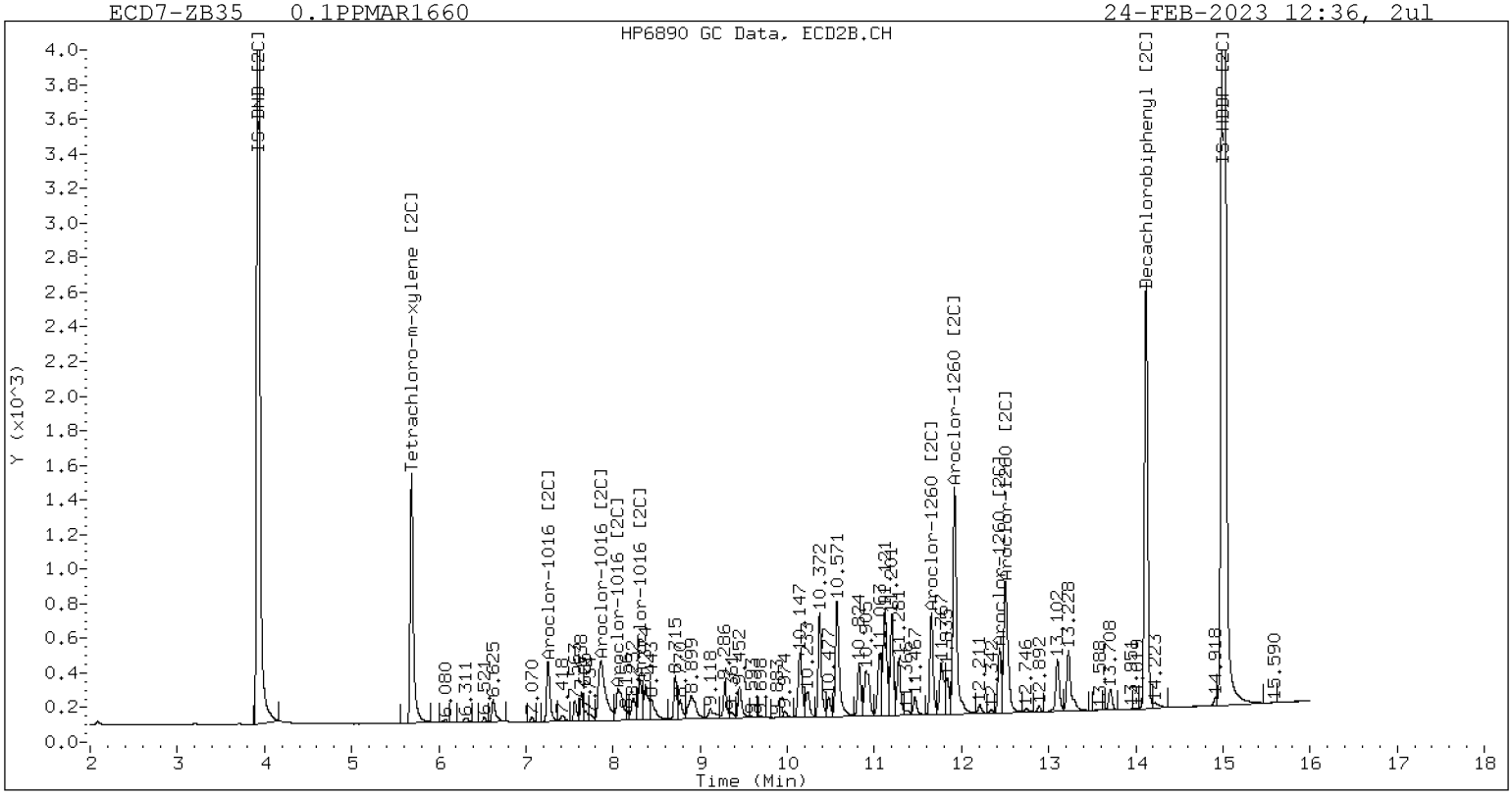
PCB Dual Column Chromatograms

ECD7-ZB5 0.1PPMAR1660 24-FEB-2023 12:36, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.1PPMAR1660 24-FEB-2023 12:36, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230224.b/02242307ECD7.D
Data file 2: /230224.b/230224.b/02242307ECD7.D
Method: \\target\share\chem4\ecd7.i\230224.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 0.5PPMAR1660
Client ID:
Injection Date: 24-FEB-2023 12:57
Report Date: 02/28/2023 09:50
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.810	0.004	724614	5.688	0.003	359257	75.2	76.7	2.0	Tetrachloro-m-xylene
13.898	0.005	1056911	14.120	0.000	650153	74.3	79.5	6.9	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	645275	-4.2
Hexabromobiphenyl	1429847	1445345	1.1

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	319170	1.2
Hexabromobiphenyl	513946	536853	4.5

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.270	0.000	115193	470.0	1	7.256	0.000	86287	461.8
Aroclor-1016	2	7.654	0.000	369991	495.2	2	7.856	0.000	192524	508.1
Aroclor-1016	3	7.790	0.000	160952	441.3	3	8.055	0.000	81039	473.6
Aroclor-1016	4	8.405	0.000	115032	487.9	4	8.307	0.000	62136	462.8
Total Col1Ave (4 peaks):					473.6	Total Col2Ave (4 peaks):				476.6 RPD = 1
Corrected Ave (3 peaks):					466.4	Corrected Ave (3 peaks):				466.1 RPD = 0
			CalAmt %D:		-5.3			CalAmt %D:		-4.7
Aroclor-1260	1	11.044	0.000	247212	475.5	1	11.653	0.000	145247	460.1
Aroclor-1260	2	11.361	0.000	262877	483.9	2	11.918	0.000	379838	471.5
Aroclor-1260	3	11.734	0.000	678830	471.1	3	12.436	0.000	104092	486.9
Aroclor-1260	4	12.139	0.000	356067	490.7	4	12.502	0.000	258953	476.9
Aroclor-1260	5	12.244	0.000	150280	481.2	NS	---			----
Total Col1Ave (5 peaks):					480.5	Total Col2Ave (4 peaks):				473.8 RPD = 1
Corrected Ave (4 peaks):					477.9	Corrected Ave (3 peaks):				469.5 RPD = 2
			CalAmt %D:		-3.9			CalAmt %D:		-5.2

Total PCB Area Col1 (5.906 - 13.793) = 7134169 Col1 Total PCB = 0.9 ppm*

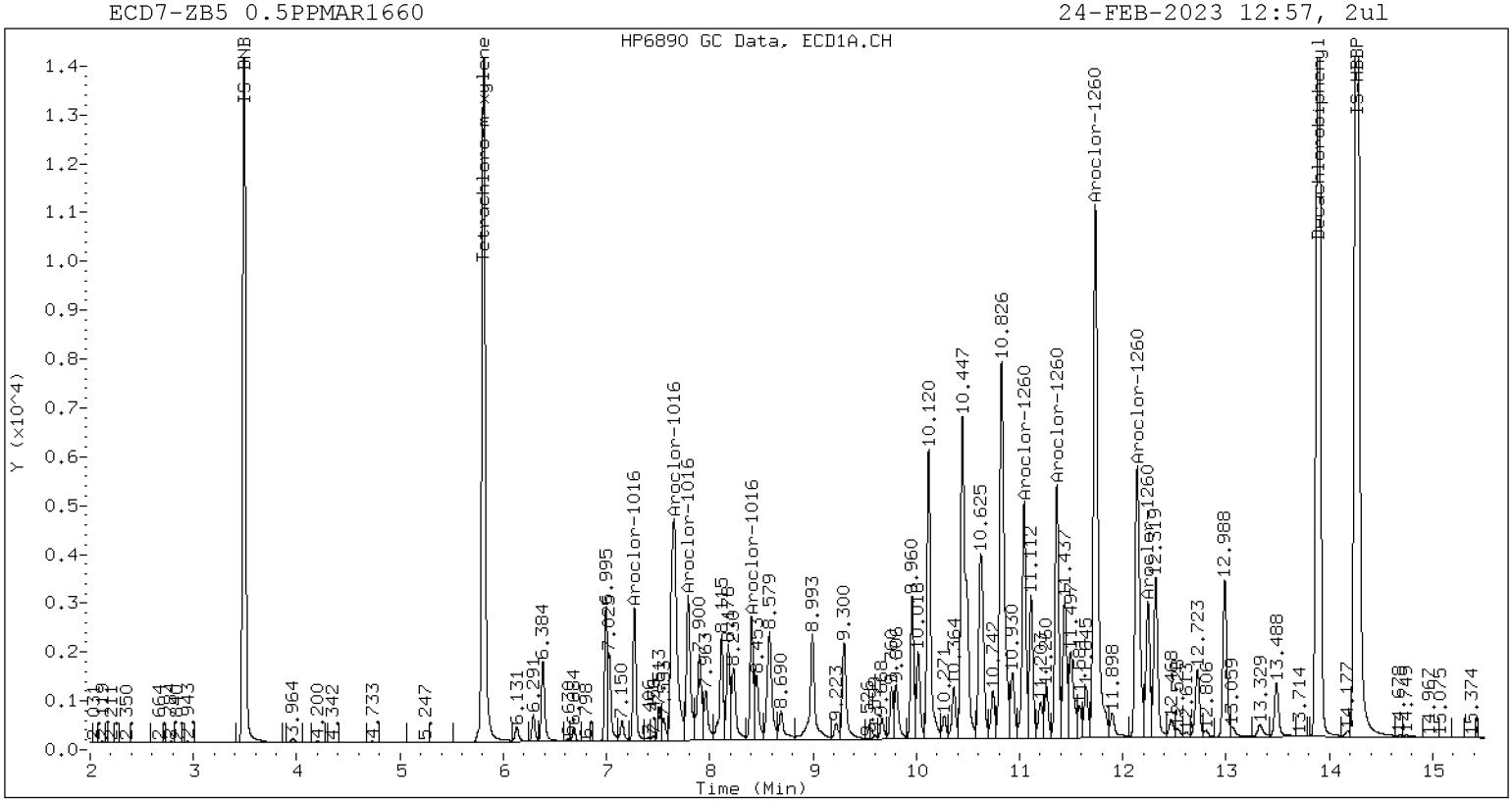
Total PCB Area Col2 (5.785 - 14.019) = 3589735 Col2 Total PCB = 0.9 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

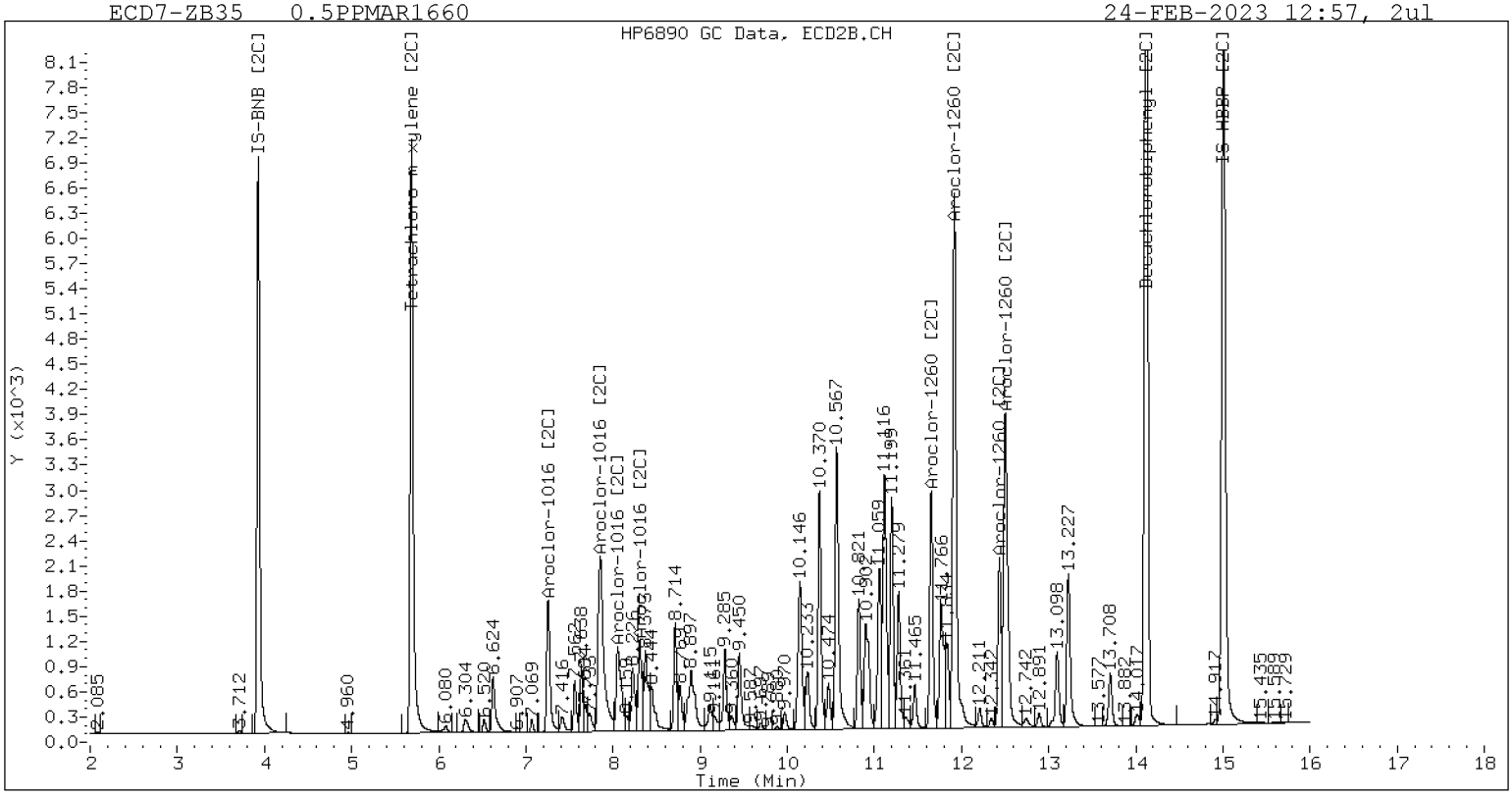
PCB Dual Column Chromatograms

ECD7-ZB5 0.5PPMAR1660 24-FEB-2023 12:57, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.5PPMAR1660 24-FEB-2023 12:57, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230224.b/02242308ECD7.D
Data file 2: /230224.b/230224.b/02242308ECD7.D
Method: \\target\share\chem4\ecd7.i\230224.b\PCB.m
Compound Sublist: AR1242.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 0.25PPMAR1242
Client ID:
Injection Date: 24-FEB-2023 13:18
Report Date: 02/28/2023 09:50
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.809	0.003	434187	5.688	0.003	214306	46.0	46.5	1.1	Tetrachloro-m-xylene
13.894	0.000	515867	14.119	-0.001	312943	35.6	38.5	7.6	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	632576	-6.1
Hexabromobiphenyl	1429847	1469715	2.8

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	314129	-0.4
Hexabromobiphenyl	513946	534294	4.0

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1242	1	7.271	0.000	49009	250.0	1	7.255	0.000	36487	250.0
Aroclor-1242	2	7.656	0.000	148833	250.0	2	7.858	0.000	76699	250.0
Aroclor-1242	3	8.405	0.000	46308	250.0	3	9.167	0.000	23866	250.0
Aroclor-1242	4	8.579	0.000	68453	250.0	4	9.597	0.000	29080	250.0
Total Col1Ave (4 peaks):					250.0	Total Col2Ave (4 peaks):				250.0 RPD = 0
Corrected Ave (3 peaks):					250.0	Corrected Ave (3 peaks):				250.0 RPD = 0

Total PCB Area Col1 (5.906 - 13.793) = 1221467 Col1 Total PCB = 0.2 ppm*

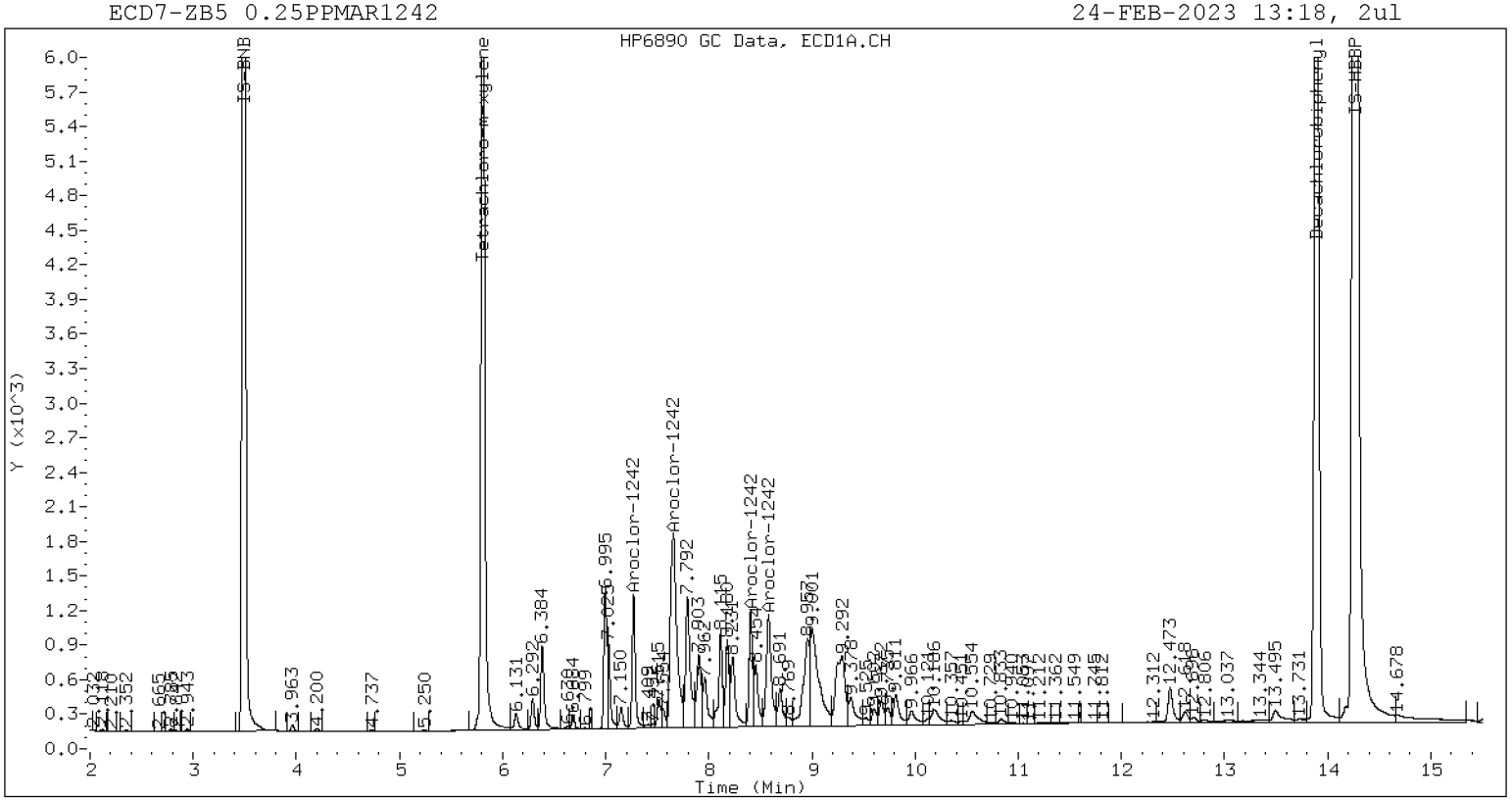
Total PCB Area Col2 (5.785 - 14.019) = 572067 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

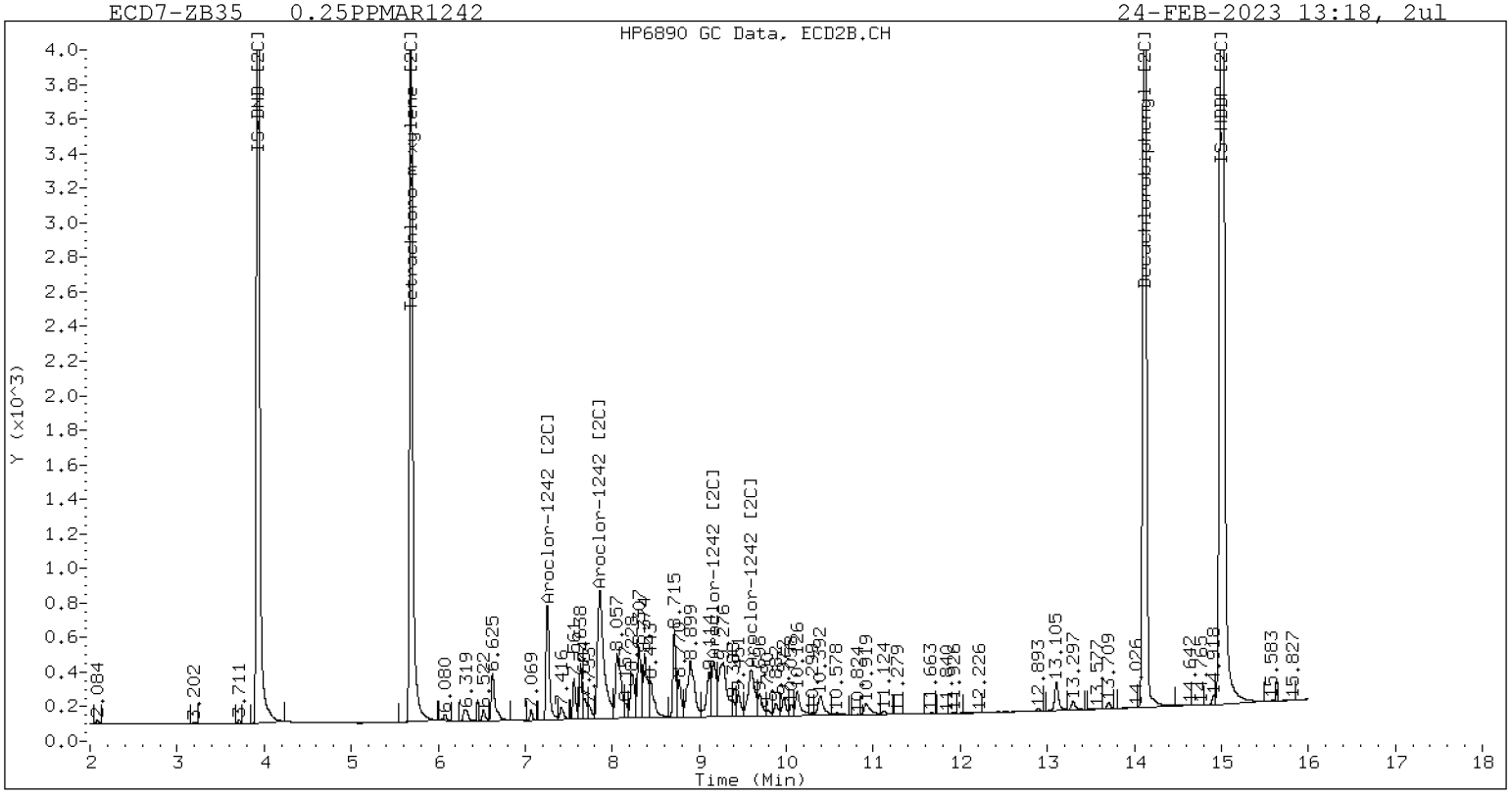
PCB Dual Column Chromatograms

ECD7-ZB5 0.25PPMAR1242 24-FEB-2023 13:18, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.25PPMAR1242 24-FEB-2023 13:18, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230224.b/02242309ECD7.D
Data file 2: /230224.b/230224.b/02242309ECD7.D
Method: \\target\share\chem4\ecd7.i\230224.b\PCB.m
Compound Sublist: AR1248.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 0.25PPMAR1248
Client ID:
Injection Date: 24-FEB-2023 13:39
Report Date: 02/28/2023 09:51
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.809	0.003	349513	5.688	0.003	176615	36.6	37.9	3.4	Tetrachloro-m-xylene
13.894	0.001	523008	14.121	0.001	322054	36.4	39.3	7.5	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	639911	-5.0
Hexabromobiphenyl	1429847	1458696	2.0

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	317938	0.9
Hexabromobiphenyl	513946	538760	4.8

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1248	1	8.405	0.000	78055	250.0	1	8.308	0.000	37951	250.0
Aroclor-1248	2	8.580	0.000	99216	250.0	2	8.714	0.000	39239	250.0
Aroclor-1248	3	8.999	0.000	187178	250.0	3	9.166	0.000	45157	250.0
Aroclor-1248	4	9.295	0.000	95291	250.0	4	9.590	0.000	54216	250.0

Total Col1Ave (4 peaks): 250.0 Total Col2Ave (4 peaks): 250.0 RPD = 0

Corrected Ave (3 peaks): 250.0 Corrected Ave (3 peaks): 250.0 RPD = 0

Total PCB Area Col1 (5.906 - 13.793) = 1565180 Col1 Total PCB = 0.2 ppm*

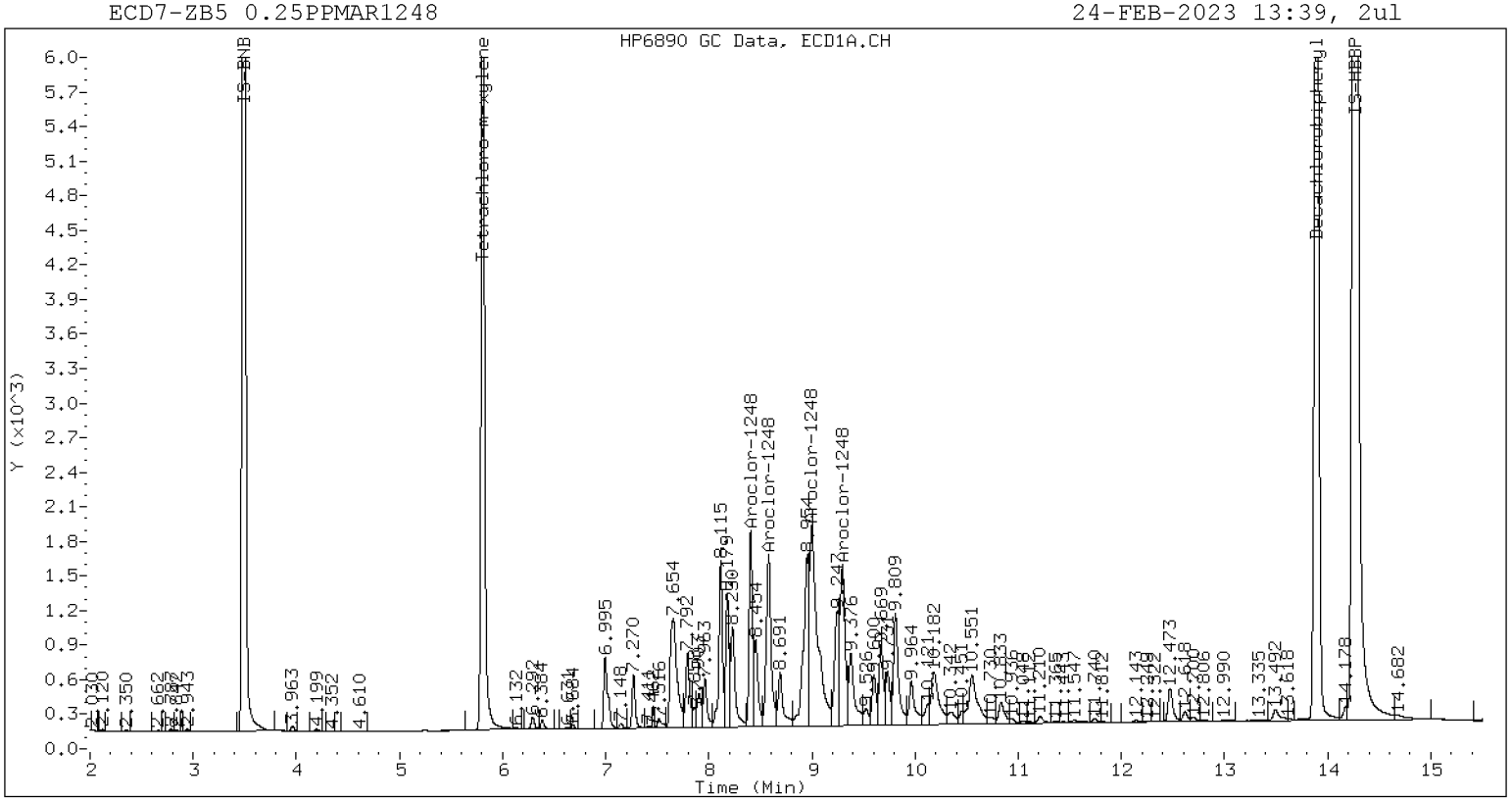
Total PCB Area Col2 (5.785 - 14.019) = 754991 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

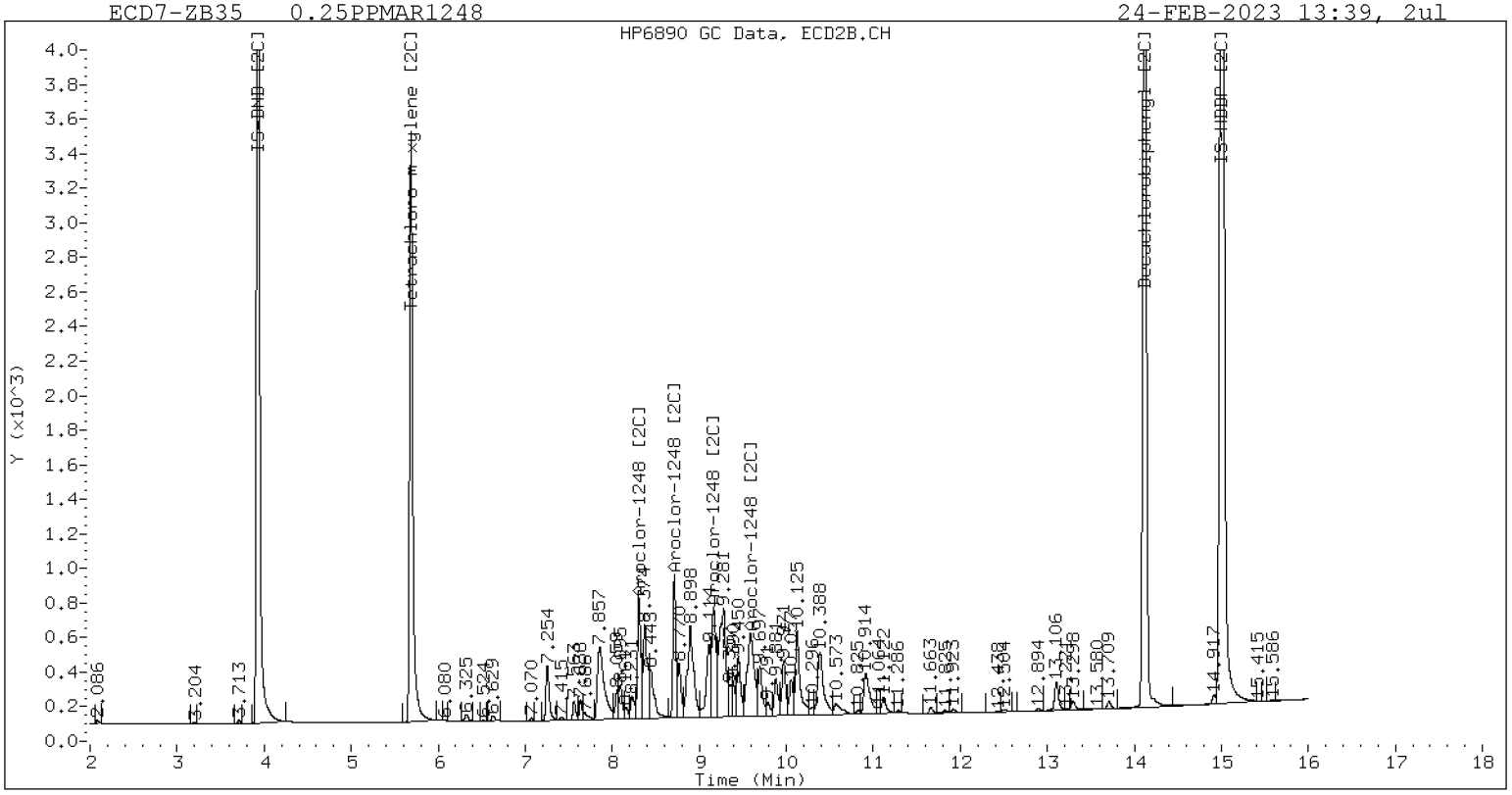
PCB Dual Column Chromatograms

ECD7-ZB5 0.25PPMAR1248 24-FEB-2023 13:39, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.25PPMAR1248 24-FEB-2023 13:39, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230224.b/02242310ECD7.D
Data file 2: /230224.b/230224.b/02242310ECD7.D
Method: \\target\share\chem4\ecd7.i\230224.b\PCB.m
Compound Sublist: AR1254.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 0.25PPMAR1254
Client ID:
Injection Date: 24-FEB-2023 14:00
Report Date: 02/28/2023 09:51
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.808	0.002	352587	5.687	0.002	177502	37.3	38.6	3.4	Tetrachloro-m-xylene
13.895	0.002	532500	14.119	0.000	325903	37.0	40.2	8.2	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	633407	-6.0
Hexabromobiphenyl	1429847	1460265	2.1

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	313673	-0.5
Hexabromobiphenyl	513946	532442	3.6

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1254	1	9.299	0.000	159011	250.0	1	9.449	0.000	59603	250.0
Aroclor-1254	2	9.377	0.000	71516	250.0	2	9.970	0.000	47949	250.0
Aroclor-1254	3	9.668	0.000	102230	250.0	3	10.124	0.000	103745	250.0
Aroclor-1254	4	9.807	0.000	198777	250.0	4	10.373	0.000	101135	250.0
Aroclor-1254	5	10.176	0.000	124586	250.0	5	10.569	0.000	61577	250.0

Total Col1Ave (5 peaks): 250.0 Total Col2Ave (5 peaks): 250.0 RPD = 0

Corrected Ave (4 peaks): 250.0 Corrected Ave (4 peaks): 250.0 RPD = 0

Total PCB Area Col1 (5.906 - 13.793) = 2179224 Col1 Total PCB = 0.3 ppm*

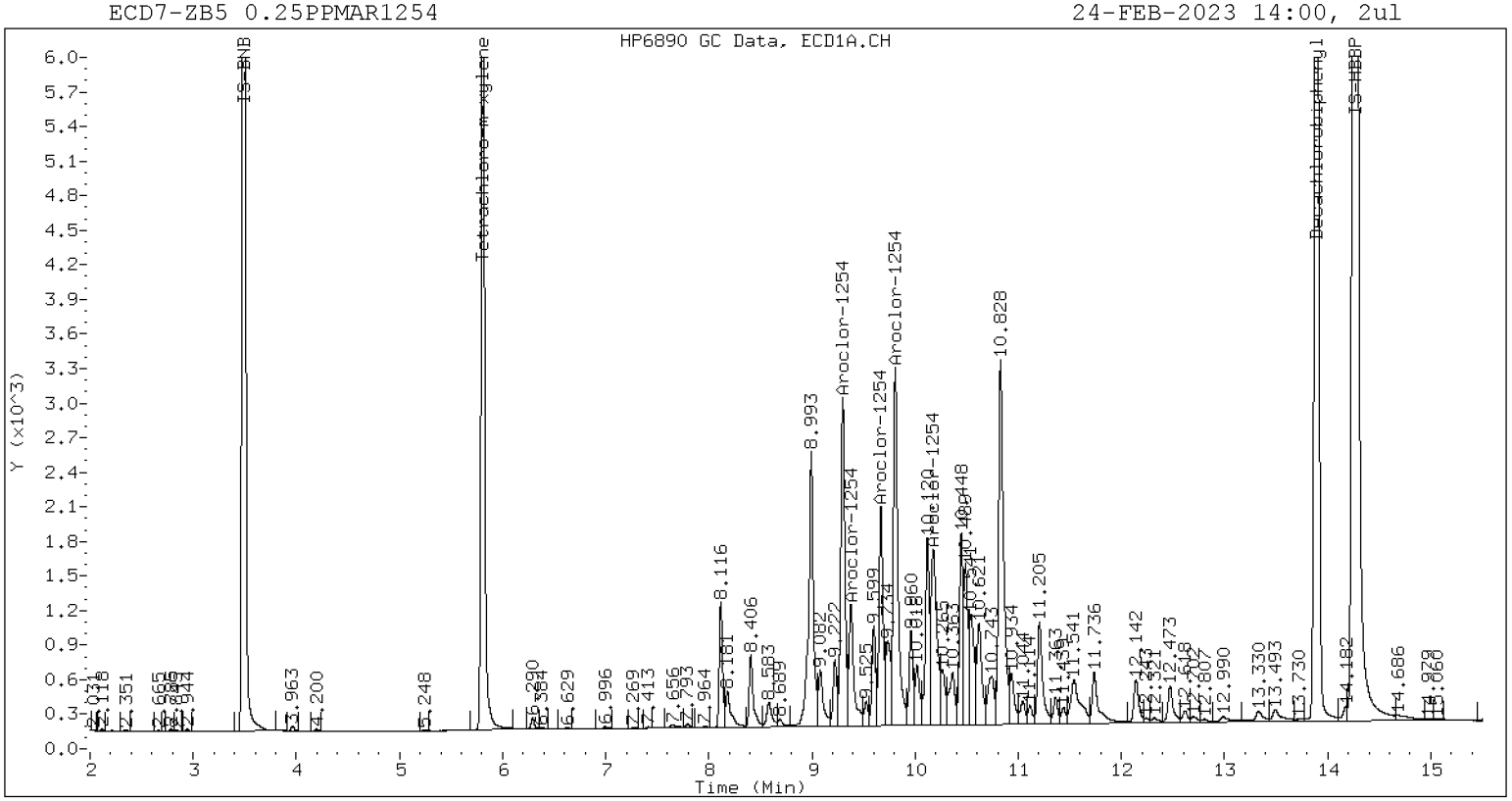
Total PCB Area Col2 (5.785 - 14.019) = 1022156 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

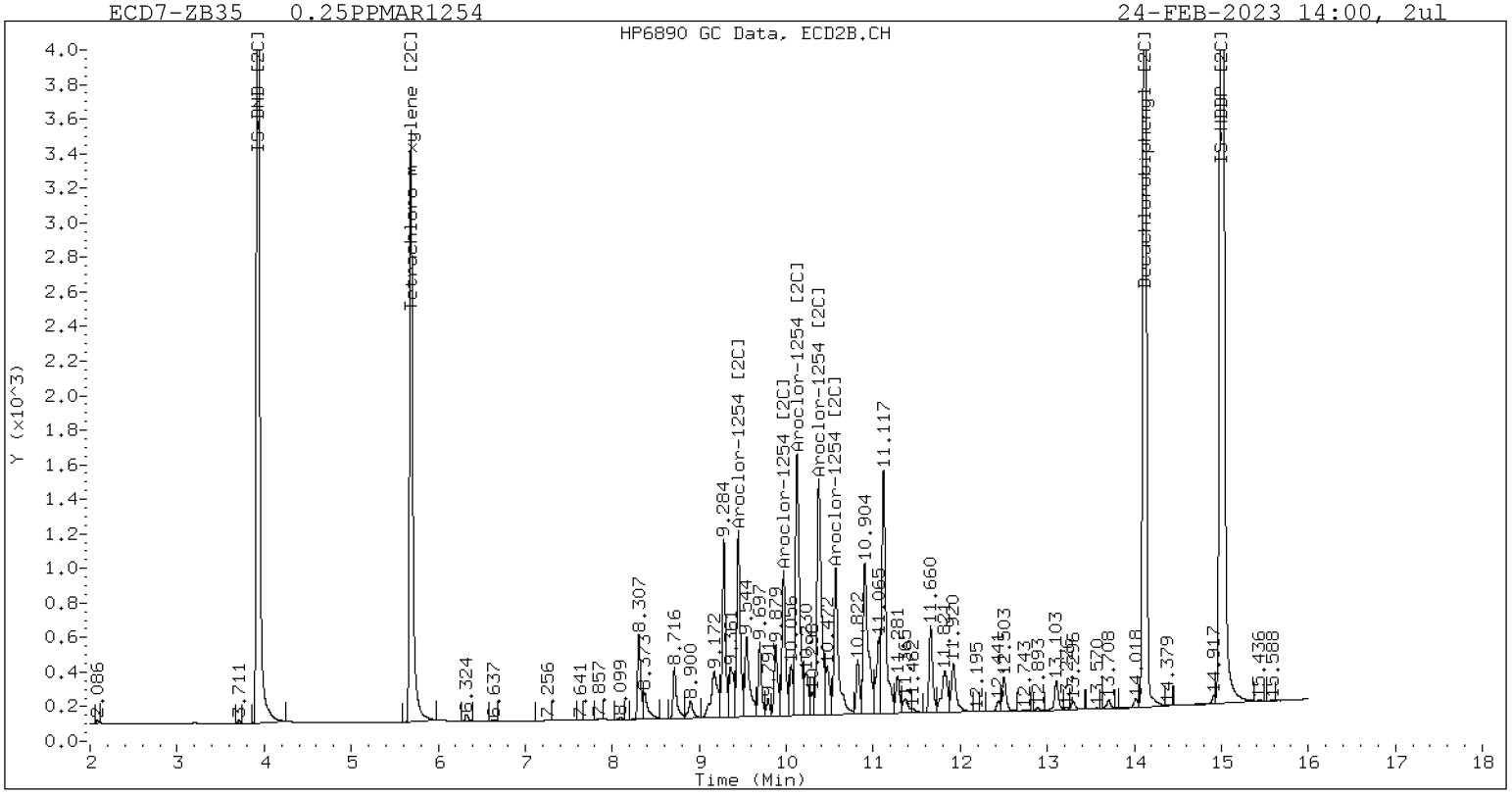
PCB Dual Column Chromatograms

ECD7-ZB5 0.25PPMAR1254 24-FEB-2023 14:00, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.25PPMAR1254 24-FEB-2023 14:00, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230224.b/02242311ECD7.D
Data file 2: /230224.b/230224.b/02242311ECD7.D
Method: \\target\share\chem4\ecd7.i\230224.b\PCB.m
Compound Sublist: AR2162.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 0.25PPMAR2162
Client ID:
Injection Date: 24-FEB-2023 14:21
Report Date: 02/28/2023 09:51
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.807	0.001	362236	5.686	0.000	177349	38.4	39.2	2.1	Tetrachloro-m-xylene
13.894	0.001	523254	14.119	-0.000	321034	36.0	39.2	8.3	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	632433	-6.1
Hexabromobiphenyl	1429847	1474039	3.1

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	308453	-2.2
Hexabromobiphenyl	513946	538177	4.7

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1221	1	4.731	0.000	14160	250.0	1	4.956	0.000	7300	250.0
Aroclor-1221	2	6.132	0.000	25324	250.0	2	6.296	0.000	13816	250.0
Aroclor-1221	3	6.382	0.000	58795	250.0	3	6.622	0.000	22491	250.0
Total Col1Ave (3 peaks):					250.0	Total Col2Ave (3 peaks):				250.0 RPD = 0
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1262	1	10.829	0.000	113046	250.0	1	11.200	0.000	114880	250.0
Aroclor-1262	2	12.244	0.000	183948	250.0	2	11.652	0.000	97844	250.0
Aroclor-1262	3	12.319	0.000	197749	250.0	3	12.434	0.000	111015	250.0
Aroclor-1262	4	12.987	0.000	180727	250.0	4	12.502	0.000	173913	250.0
Total Col1Ave (4 peaks):					250.0	Total Col2Ave (4 peaks):				250.0 RPD = 0
Corrected Ave (3 peaks):					250.0	Corrected Ave (3 peaks):				250.0 RPD = 0

Total PCB Area Col1 (5.906 - 13.793) = 3105316 Col1 Total PCB = 0.4 ppm*

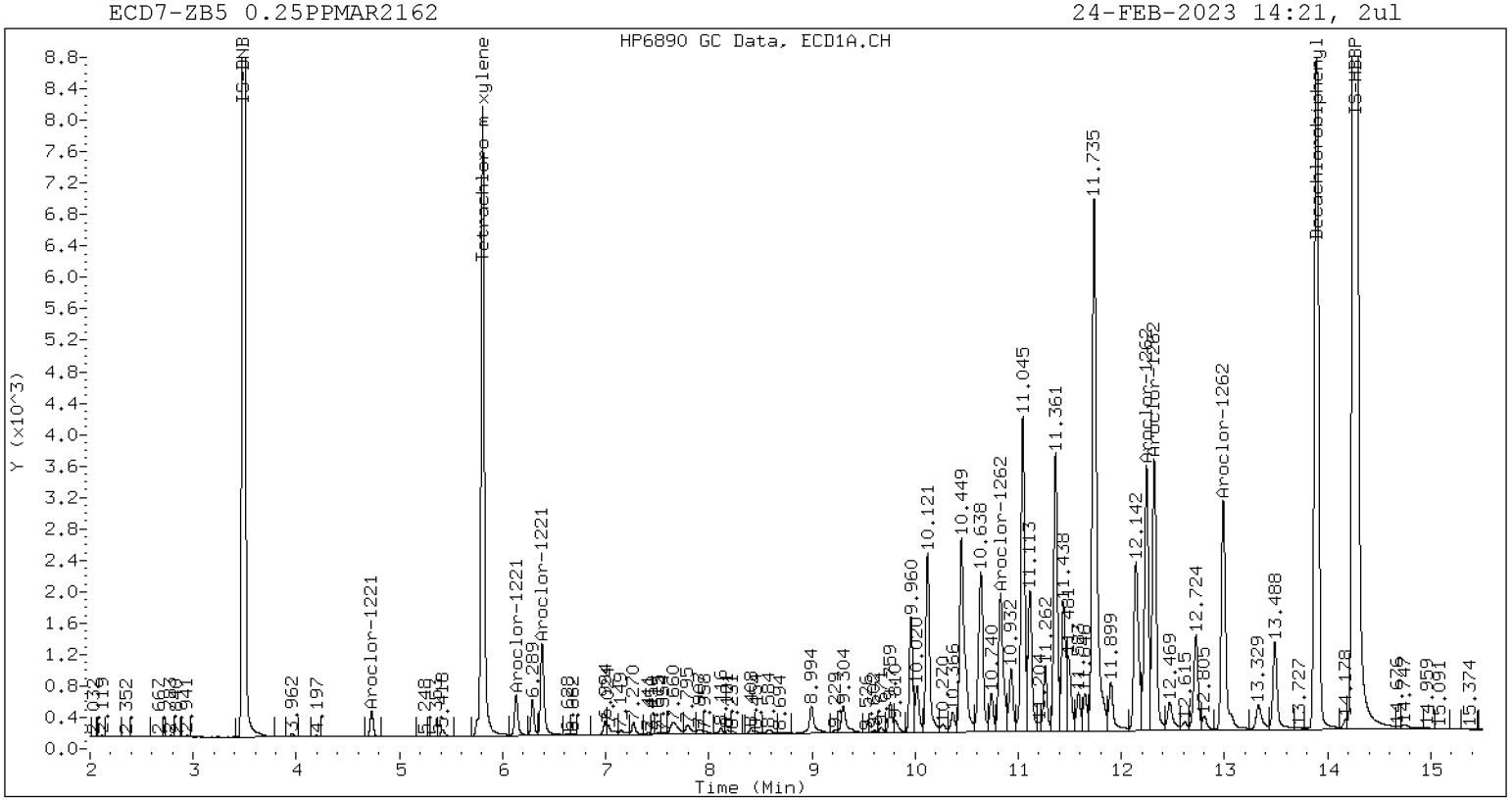
Total PCB Area Col2 (5.785 - 14.019) = 1573107 Col2 Total PCB = 0.4 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

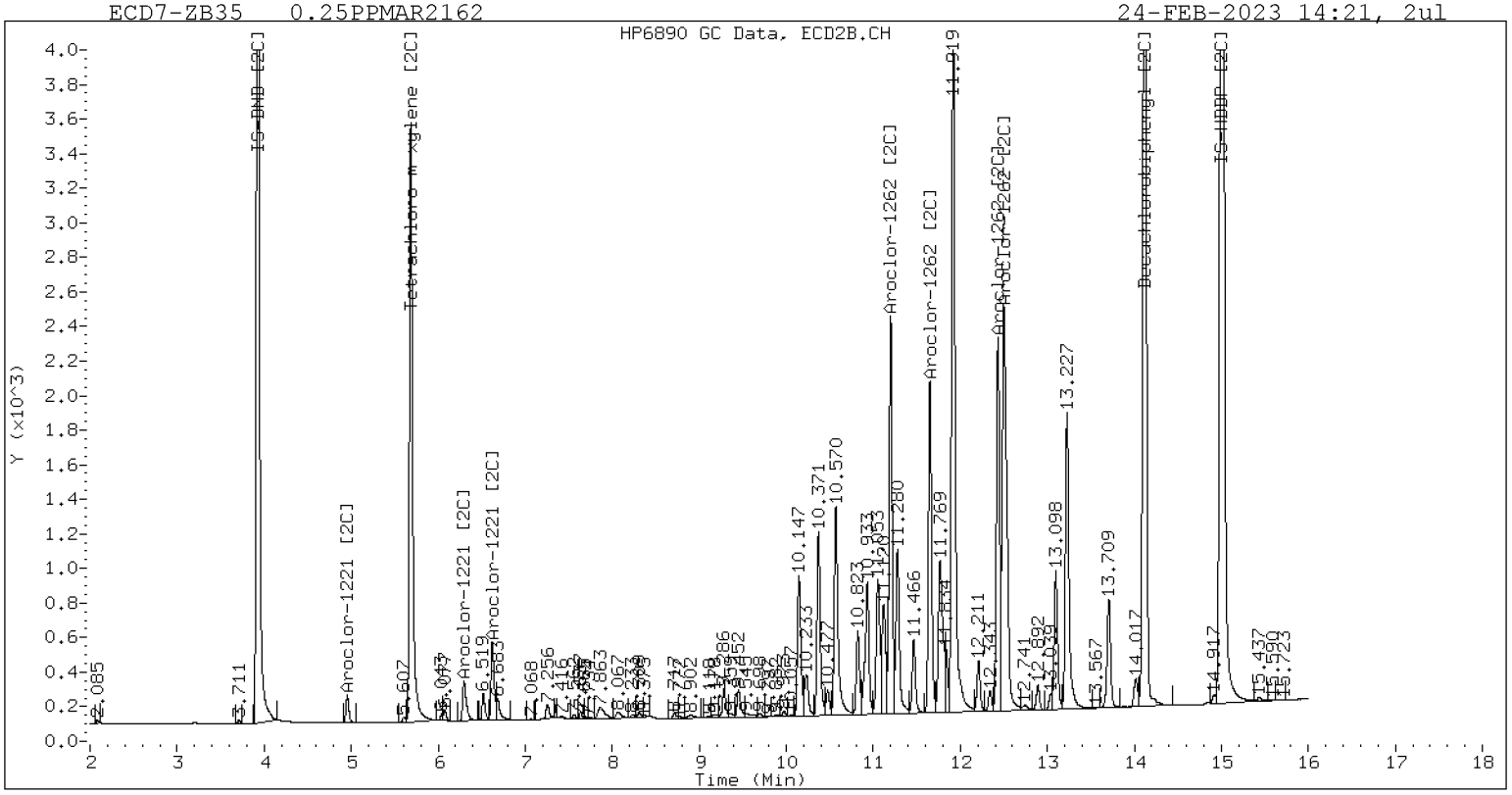
PCB Dual Column Chromatograms

ECD7-ZB5 0.25PPMAR2162 24-FEB-2023 14:21, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.25PPMAR2162 24-FEB-2023 14:21, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230224.b/02242312ECD7.D
Data file 2: /230224.b/230224.b/02242312ECD7.D
Method: \\target\share\chem4\ecd7.i\230224.b\PCB.m
Compound Sublist: AR3268.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 0.25PPMAR3268
Client ID:
Injection Date: 24-FEB-2023 14:42
Report Date: 02/28/2023 09:51
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.806	0.000	366416	5.685	0.000	179450	38.0	38.9	2.4	Tetrachloro-m-xylene
13.893	0.000	778191	14.119	0.000	477889	53.0	57.5	8.3	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	645602	-4.2
Hexabromobiphenyl	1429847	1492154	4.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	314042	-0.4
Hexabromobiphenyl	513946	545458	6.1

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1232	1	4.730	0.000	8647	250.0	1	4.956	0.000	4017	250.0
Aroclor-1232	2	6.131	0.000	17148	250.0	2	7.254	0.000	19962	250.0
Aroclor-1232	3	7.656	0.000	77627	250.0	3	7.861	0.000	39913	250.0
Aroclor-1232	4	8.581	0.000	32993	250.0	4	8.715	0.000	11487	250.0
Total Col1Ave (4 peaks):					250.0	Total Col2Ave (4 peaks):				250.0 RPD = 0
Corrected Ave (3 peaks):					250.0	Corrected Ave (3 peaks):				250.0 RPD = 0
Aroclor-1268	1	12.247	0.000	477974	250.0	1	12.432	0.000	274595	250.0
Aroclor-1268	2	12.317	0.000	473326	250.0	2	12.500	0.000	295194	250.0
Aroclor-1268	3	12.699	0.000	405011	250.0	3	12.892	0.000	252048	250.0
Aroclor-1268	4	13.490	0.000	1333528	250.0	4	13.709	0.000	805579	250.0
Total Col1Ave (4 peaks):					250.0	Total Col2Ave (4 peaks):				250.0 RPD = 0
Corrected Ave (3 peaks):					250.0	Corrected Ave (3 peaks):				250.0 RPD = 0

Total PCB Area Col1 (5.906 - 13.793) = 3998414 Col1 Total PCB = 0.5 ppm*

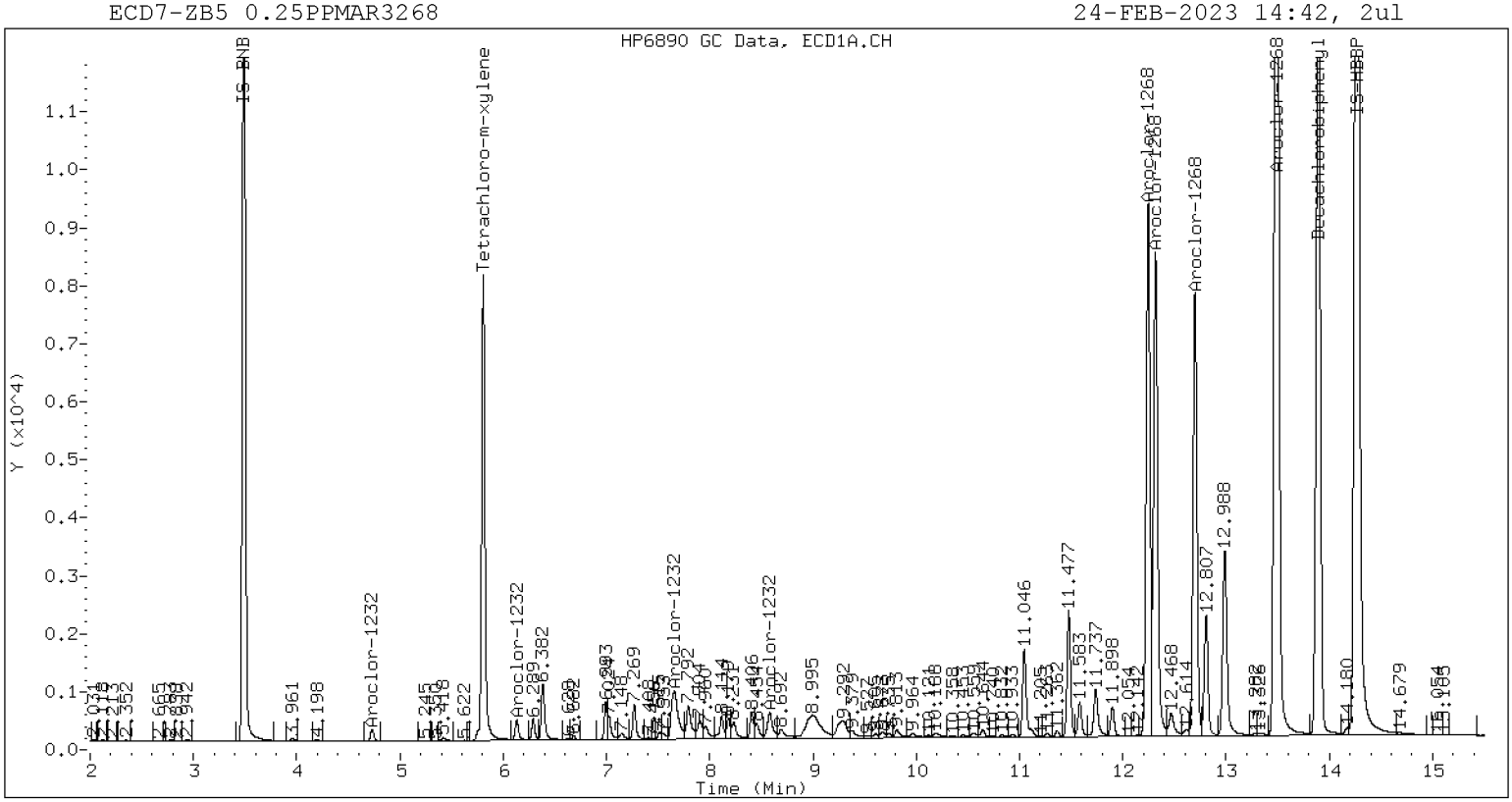
Total PCB Area Col2 (5.785 - 14.019) = 2300029 Col2 Total PCB = 0.6 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

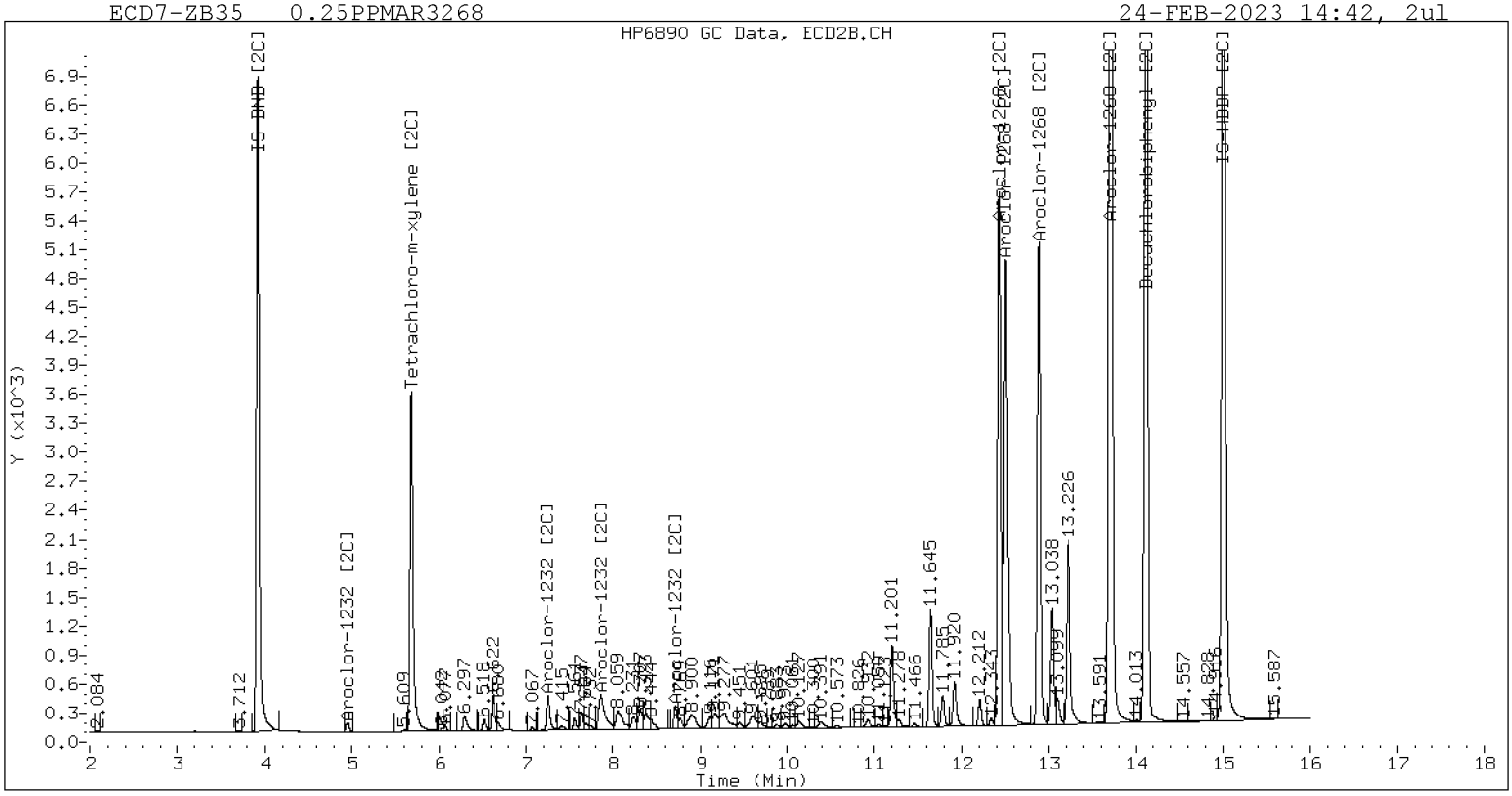
PCB Dual Column Chromatograms

ECD7-ZB5 0.25PPMAR3268 24-FEB-2023 14:42, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.25PPMAR3268 24-FEB-2023 14:42, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230224.b/02242313ECD7.D
Data file 2: /230224.b/230224.b/02242313ECD7.D
Method: \\target\share\chem4\ecd7.i\230224.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660SCV
Client ID:
Injection Date: 24-FEB-2023 15:03
Report Date: 02/28/2023 09:51
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.807	0.001	337070	5.686	0.001	165848	34.9	35.8	2.3	Tetrachloro-m-xylene
13.895	0.002	515407	14.119	-0.000	316730	34.3	37.3	8.4	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	645975	-4.1
Hexabromobiphenyl	1429847	1524245	6.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	316115	0.3
Hexabromobiphenyl	513946	556950	8.4

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.269	-0.002	59491	242.5	1	7.254	-0.002	44576	240.9
Aroclor-1016	2	7.655	0.001	181090	242.1	2	7.857	0.002	95386	254.2
Aroclor-1016	3	7.790	0.000	88470	242.3	3	8.056	0.002	42160	248.8
Aroclor-1016	4	8.404	-0.001	57980	245.6	4	8.307	0.000	32197	242.1
Total Col1Ave (4 peaks):					243.1	Total Col2Ave (4 peaks):				246.5 RPD = 1
Corrected Ave (3 peaks):					242.3	Corrected Ave (3 peaks):				243.9 RPD = 1
Aroclor-1221	1	4.731	0.000	464	8.0	1	---			0.0
Aroclor-1221	2	6.130	-0.002	9233	89.2	2	6.300	0.004	5379	95.0
Aroclor-1221	3	6.382	-0.001	42570	177.2	3	6.623	0.001	20952	227.2
Total Col1Ave (3 peaks):					91.5	Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	4.731	0.001	464	13.4	1	---			0.0
Aroclor-1232	2	6.130	-0.001	9233	134.5	2	7.254	-0.000	44576	554.6
Aroclor-1232	3	7.655	-0.001	181090	582.9	3	7.857	-0.003	95386	593.5
Aroclor-1232	4	8.580	-0.001	79916	605.2	4	8.713	-0.002	29795	644.2
Total Col1Ave (4 peaks):					334.0	Total Col2Ave (3 peaks):				597.4 RPD = 57*
Corrected Ave (3 peaks):					243.6	Corrected Ave: < 3 Peaks				
Aroclor-1242	1	7.269	-0.002	59491	297.2	1	7.254	-0.002	44576	303.5
Aroclor-1242	2	7.655	-0.001	181090	297.9	2	7.857	-0.000	95386	309.0
Aroclor-1242	3	8.404	-0.001	57980	306.5	3	9.115	-0.052	18754	195.2
Aroclor-1242	4	8.580	0.000	79916	285.8	4	9.697	0.100	1355	11.6
Total Col1Ave (4 peaks):					296.8	Total Col2Ave (4 peaks):				204.8 RPD = 37
Corrected Ave (3 peaks):					293.6	Corrected Ave (3 peaks):				170.1 RPD = 53*
Aroclor-1248	1	8.404	-0.001	57980	184.0	1	8.307	-0.001	32197	213.3
Aroclor-1248	2	8.580	-0.001	79916	199.5	2	8.713	-0.001	29795	190.9
Aroclor-1248	3	8.993	-0.006	71805	95.0	3	9.115	-0.050	18754	104.4
Aroclor-1248	4	9.300	0.006	47348	123.1	4	---			0.0
Total Col1Ave (4 peaks):					150.4	Total Col2Ave (3 peaks):				169.6 RPD = 12
Corrected Ave (3 peaks):					134.0	Corrected Ave: < 3 Peaks				
Aroclor-1254	1	9.300	0.002	47348	73.0	1	9.451	0.001	22438	93.4
Aroclor-1254	2	---			0.0	2	9.972	0.001	2694	13.9
Aroclor-1254	3	9.670	0.002	5461	13.1	3	10.147	0.024	52914	126.5
Aroclor-1254	4	9.807	-0.000	18944	23.4	4	10.370	-0.003	70430	172.8
Aroclor-1254	5	10.121	-0.056	154170	303.3	5	10.568	-0.000	98525	396.9
Total Col1Ave (4 peaks):					103.2	Total Col2Ave (5 peaks):				160.7 RPD = 44*
Corrected Ave (3 peaks):					36.5	Corrected Ave (4 peaks):				101.7 RPD = 94*
Aroclor-1260	1	11.044	0.000	149195	272.1	1	11.653	0.000	82210	251.0
Aroclor-1260	2	11.361	-0.000	153832	268.5	2	11.919	0.001	222226	265.9
Aroclor-1260	3	11.736	0.002	396660	261.0	3	12.435	-0.000	59148	266.7
Aroclor-1260	4	12.140	0.001	190448	248.9	4	12.504	0.002	147180	261.2
Aroclor-1260	5	12.244	-0.000	91385	277.5	NS	---			----
Total Col1Ave (5 peaks):					265.6	Total Col2Ave (4 peaks):				261.2 RPD = 2
Corrected Ave (4 peaks):					262.6	Corrected Ave (3 peaks):				259.4 RPD = 1
Aroclor-1262	1	10.827	-0.002	220238	471.0	1	11.199	-0.001	84479	177.6
Aroclor-1262	2	12.244	0.000	91385	120.1	2	11.653	0.002	82210	203.0
Aroclor-1262	3	12.320	0.001	113066	138.2	3	12.435	0.002	59148	128.7
Aroclor-1262	4	12.988	0.001	102156	136.7	4	12.504	0.002	147180	204.4
Total Col1Ave (4 peaks):					216.5	Total Col2Ave (4 peaks):				178.4 RPD = 19
Corrected Ave (3 peaks):					131.7	Corrected Ave (3 peaks):				169.8 RPD = 25
Aroclor-1268	1	12.244	-0.003	91385	46.8	1	12.435	0.003	59148	52.7
Aroclor-1268	2	12.320	0.003	113066	58.5	2	12.504	0.004	147180	122.1
Aroclor-1268	3	12.726	0.027	46633	28.2	3	12.893	0.001	2874	2.8
Aroclor-1268	4	13.489	-0.000	25567	4.7	4	13.709	-0.000	13041	4.0
Total Col1Ave (4 peaks):					34.5	Total Col2Ave (4 peaks):				45.4 RPD = 27
Corrected Ave (3 peaks):					26.6	Corrected Ave (3 peaks):				19.8 RPD = 29

Total PCB Area Col1 (5.906 - 13.793) = 3743076 Col1 Total PCB = 0.5 ppm*

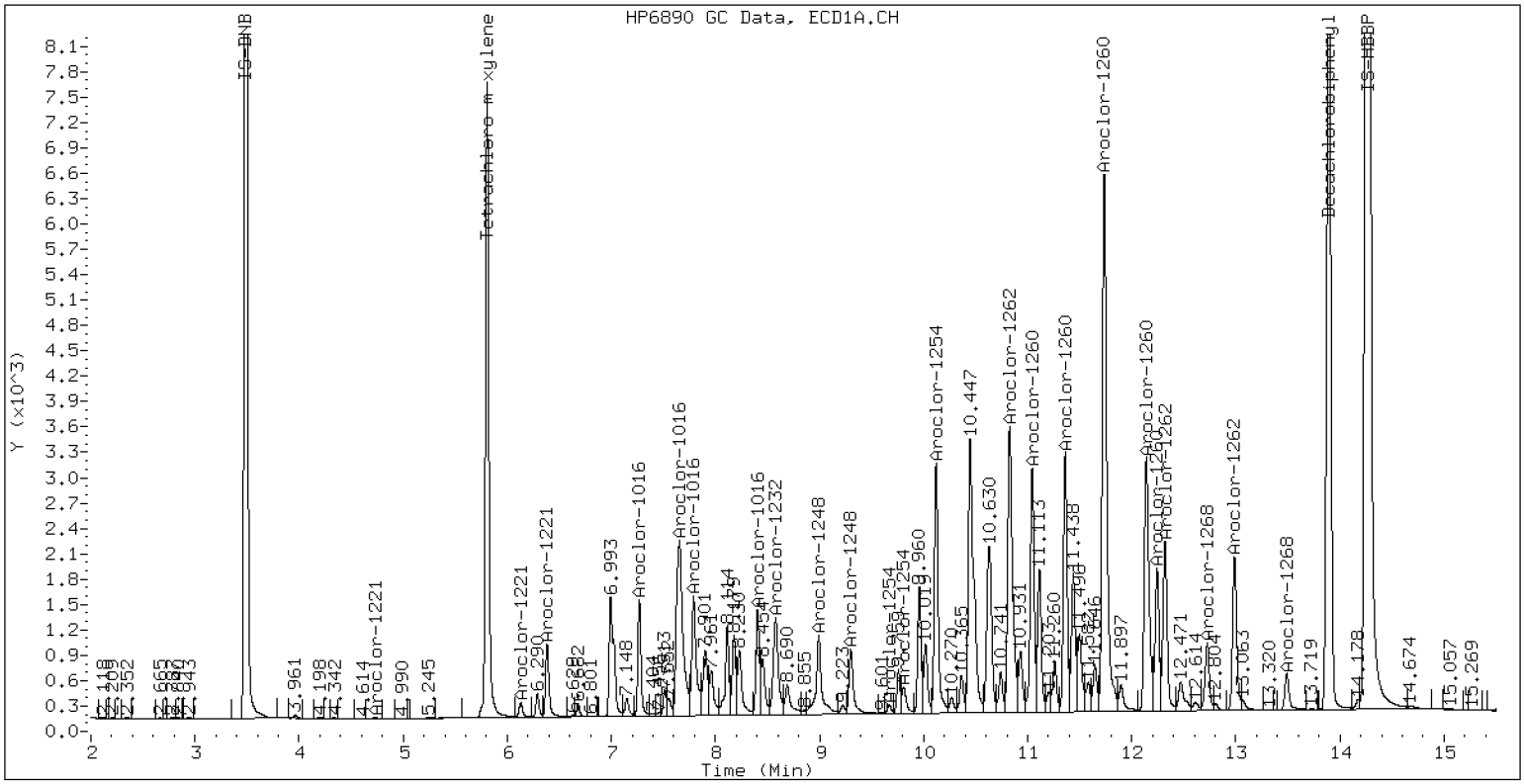
Total PCB Area Col2 (5.785 - 14.019) = 1897008 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

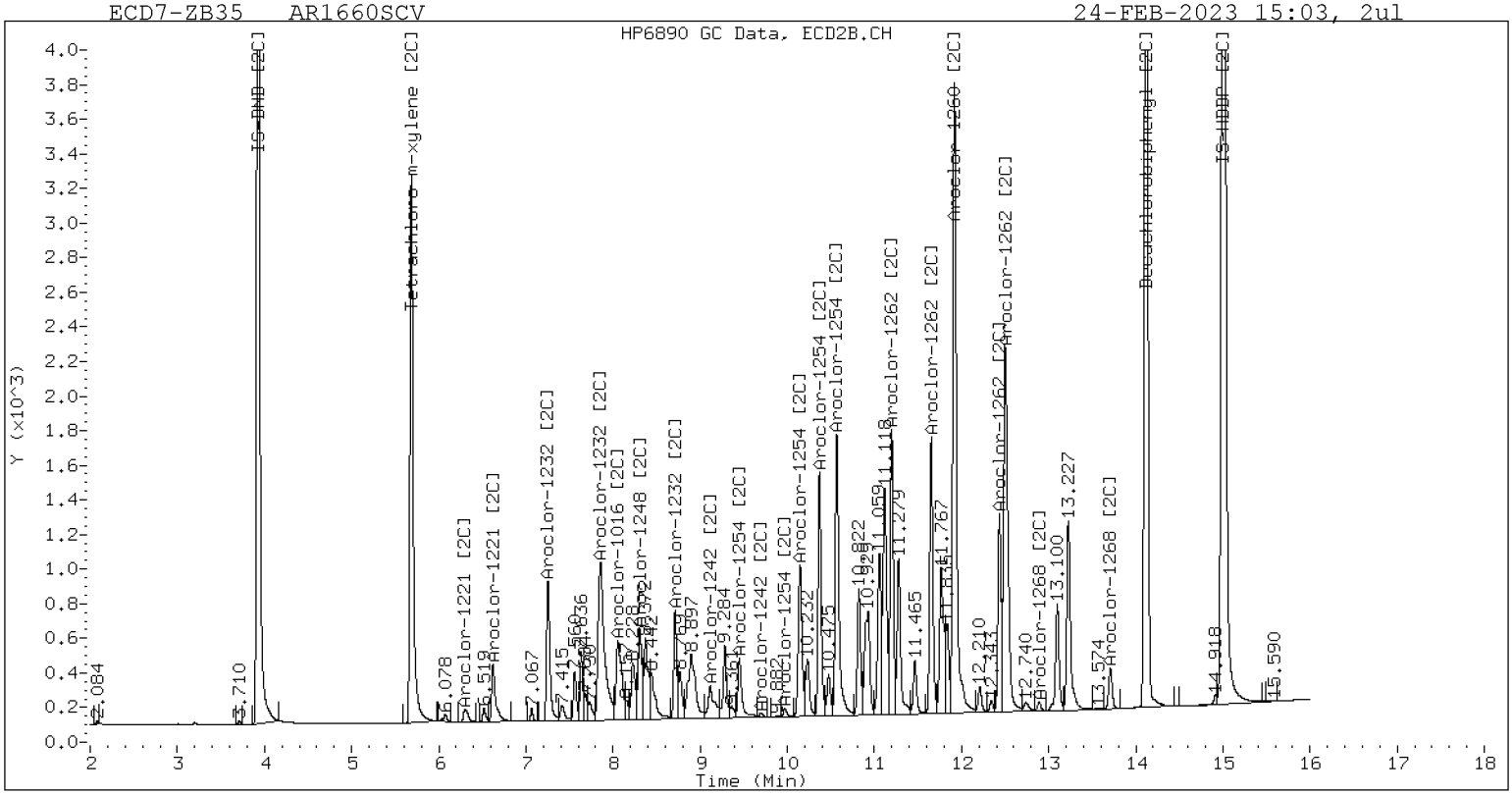
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660SCV 24-FEB-2023 15:03, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660SCV 24-FEB-2023 15:03, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230224.b/02242314ECD7.D
Data file 2: /230224.b/230224.b/02242314ECD7.D
Method: \\target\share\chem4\ecd7.i\230224.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1242SCV
Client ID:
Injection Date: 24-FEB-2023 15:24
Report Date: 02/28/2023 09:51
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.808	0.002	354283	5.686	0.001	172455	33.6	34.5	2.6	Tetrachloro-m-xylene
13.895	0.002	567088	14.120	0.001	347430	37.0	40.3	8.6	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	705650	4.7
Hexabromobiphenyl	1429847	1555683	8.8

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	340433	8.0
Hexabromobiphenyl	513946	565609	10.1

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.270	-0.000	39927	149.0	1	7.256	0.000	32417	162.7
Aroclor-1016	2	7.653	-0.001	132339	162.0	2	7.856	0.001	69235	171.3
Aroclor-1016	3	7.791	0.001	59310	148.7	3	8.055	0.000	29473	161.5
Aroclor-1016	4	8.405	0.000	42537	165.0	4	8.307	-0.000	22792	159.2
Total Col1Ave (4 peaks): 156.2						Total Col2Ave (4 peaks): 163.7				RPD = 5
Corrected Ave (3 peaks): 153.2						Corrected Ave (3 peaks): 161.1				RPD = 5
Aroclor-1221	1	4.733	0.002	319	5.0	1	---			0.0
Aroclor-1221	2	6.131	-0.001	6534	57.8	2	6.319	0.022	4365	71.6
Aroclor-1221	3	6.384	0.001	29664	113.0	3	6.624	0.002	14916	150.2
Total Col1Ave (3 peaks): 58.6						Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	4.733	0.003	319	8.4	1	---			0.0
Aroclor-1232	2	6.131	0.000	6534	87.2	2	7.256	0.002	32417	374.5
Aroclor-1232	3	7.653	-0.003	132339	389.9	3	7.856	-0.004	69235	400.0
Aroclor-1232	4	8.579	-0.002	69445	481.4	4	8.714	-0.001	22167	445.0
Total Col1Ave (4 peaks): 241.7						Total Col2Ave (3 peaks): 406.5				RPD = 51*
Corrected Ave (3 peaks): 161.8						Corrected Ave: < 3 Peaks				
Aroclor-1242	1	7.270	-0.001	39927	182.6	1	7.256	0.000	32417	205.0
Aroclor-1242	2	7.653	-0.003	132339	199.3	2	7.856	-0.002	69235	208.2
Aroclor-1242	3	8.405	-0.000	42537	205.9	3	9.164	-0.004	23068	223.0
Aroclor-1242	4	8.579	-0.000	69445	227.4	4	9.587	-0.010	31021	246.1
Total Col1Ave (4 peaks): 203.8						Total Col2Ave (4 peaks): 220.6				RPD = 8
Corrected Ave (3 peaks): 195.9						Corrected Ave (3 peaks): 212.1				RPD = 8
Aroclor-1248	1	8.405	0.000	42537	123.5	1	8.307	-0.001	22792	140.2
Aroclor-1248	2	8.579	-0.001	69445	158.7	2	8.714	-0.000	22167	131.9
Aroclor-1248	3	9.001	0.003	91942	111.4	3	9.164	-0.002	23068	119.3
Aroclor-1248	4	9.294	-0.000	38711	92.1	4	9.587	-0.003	31021	133.6
Total Col1Ave (4 peaks): 121.4						Total Col2Ave (4 peaks): 131.2				RPD = 8
Corrected Ave (3 peaks): 109.0						Corrected Ave (3 peaks): 128.3				RPD = 16
Aroclor-1254	1	9.294	-0.005	38711	54.6	1	9.450	0.001	13131	50.7
Aroclor-1254	2	9.377	-0.000	17371	54.5	2	9.970	0.000	8340	40.1
Aroclor-1254	3	9.668	-0.000	16373	35.9	3	10.123	-0.000	16364	36.3
Aroclor-1254	4	9.807	-0.001	27490	31.0	4	10.382	0.009	16062	36.6
Aroclor-1254	5	10.175	-0.001	20494	36.9	5	10.572	0.004	4818	18.0
Total Col1Ave (5 peaks): 42.6						Total Col2Ave (5 peaks): 36.4				RPD = 16
Corrected Ave (4 peaks): 39.6						Corrected Ave (4 peaks): 32.8				RPD = 19
Aroclor-1260	1	11.048	0.003	794	1.4	1	11.665	0.012	1652	5.0
Aroclor-1260	2	11.366	0.005	814	1.4	2	11.926	0.008	842	1.0
Aroclor-1260	3	11.739	0.006	1848	1.2	3	12.438	0.002	483	2.1
Aroclor-1260	4	12.145	0.006	1372	1.8	4	12.506	0.004	790	1.4
Aroclor-1260	5	---			0.0	NS	---			----
Total Col1Ave (4 peaks): 1.4						Total Col2Ave (4 peaks): 2.4				RPD = 49*
Corrected Ave (3 peaks): 1.3						Corrected Ave (3 peaks): 1.5				RPD = 12
Aroclor-1262	1	10.832	0.003	13157	27.6	1	11.121	-0.079	6113	12.7
Aroclor-1262	2	12.145	-0.098	1372	1.8	2	11.665	0.013	1652	4.0
Aroclor-1262	3	---			0.0	3	12.438	0.004	483	1.0
Aroclor-1262	4	13.038	0.051	842	1.1	4	12.506	0.004	790	1.1
Total Col1Ave (3 peaks): 10.1						Total Col2Ave (4 peaks): 4.7				RPD = 73*
Corrected Ave: < 3 Peaks						Corrected Ave (3 peaks): 2.0				
Aroclor-1268	1	---			0.0	1	12.438	0.006	483	0.4
Aroclor-1268	2	---			0.0	2	12.506	0.006	790	0.6
Aroclor-1268	3	12.617	-0.082	5851	3.5	3	12.899	0.007	491	0.5
Aroclor-1268	4	13.500	0.010	1745	0.3	4	13.714	0.005	379	0.1
Col1Ave: <3 Quant Peaks						Col2Ave: 0.4				

Total PCB Area Col1 (5.906 - 13.793) = 1149784 Col1 Total PCB = 0.1 ppm*

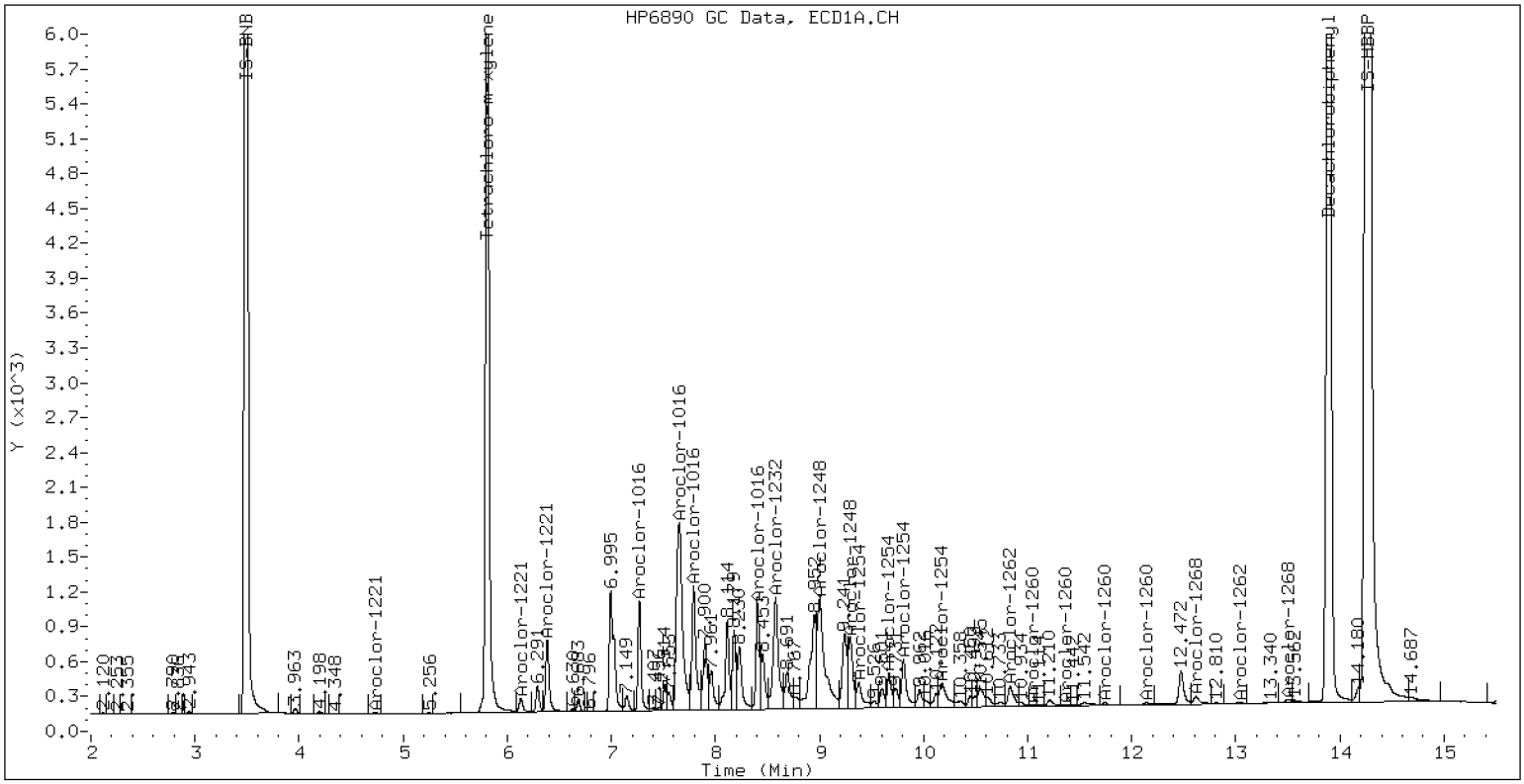
Total PCB Area Col2 (5.785 - 14.019) = 572210 Col2 Total PCB = 0.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

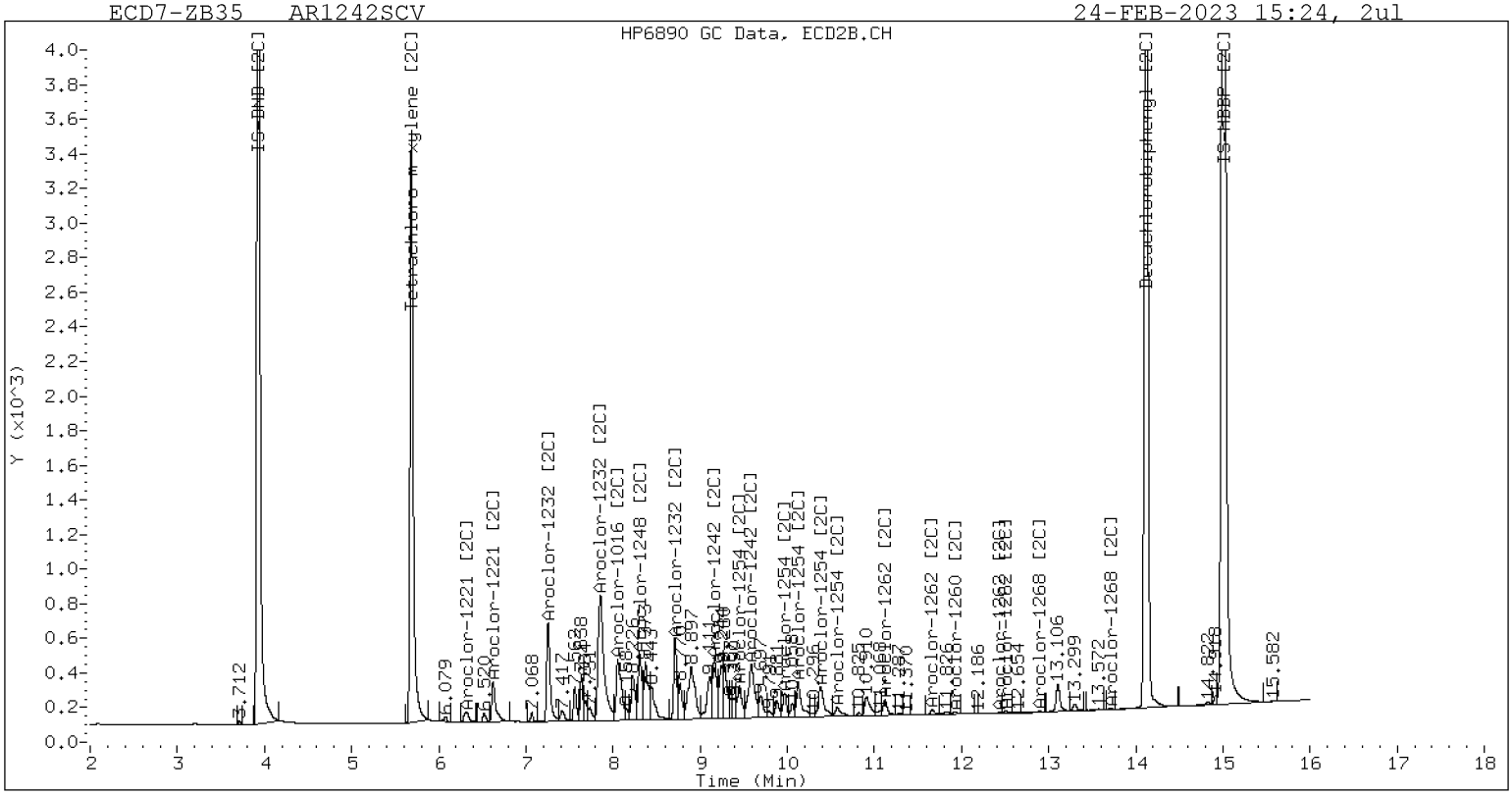
PCB Dual Column Chromatograms

ECD7-ZB5 AR1242SCV 24-FEB-2023 15:24, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1242SCV 24-FEB-2023 15:24, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230224.b/02242315ECD7.D
Data file 2: /230224.b/230224.b/02242315ECD7.D
Method: \\target\share\chem4\ecd7.i\230224.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1248SCV
Client ID:
Injection Date: 24-FEB-2023 15:45
Report Date: 02/28/2023 09:51
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.809	0.002	336655	5.687	0.002	168719	34.9	36.4	4.2	Tetrachloro-m-xylene
13.894	0.001	499162	14.118	-0.001	308317	33.1	36.3	9.2	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	646554	-4.0
Hexabromobiphenyl	1429847	1529451	7.0

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	316066	0.3
Hexabromobiphenyl	513946	557213	8.4

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	ZB5 Col RT	Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1016	1	7.271	0.000	19773	80.5	1	7.254	-0.002	16926	91.5
Aroclor-1016	2	7.653	-0.001	88099	117.7	2	7.857	0.001	45733	121.9
Aroclor-1016	3	7.794	0.003	35915	98.3	3	8.060	0.005	8078	47.7
Aroclor-1016	4	8.406	0.001	77842	329.5	4	8.307	0.000	37348	280.9
Total Col1Ave (4 peaks):		156.5				Total Col2Ave (4 peaks):			135.5	RPD = 14
Corrected Ave (3 peaks):		98.8				Corrected Ave (3 peaks):			87.0	RPD = 13
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	6.133	0.001	680	6.6	2	6.326	0.030	1966	34.7
Aroclor-1221	3	6.384	0.002	3390	14.1	3	6.631	0.009	1571	17.0
Col1Ave: <3 Quant Peaks						Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	6.133	0.002	680	9.9	2	7.254	-0.000	16926	210.6
Aroclor-1232	3	7.653	-0.002	88099	283.3	3	7.857	-0.004	45733	284.6
Aroclor-1232	4	8.581	-0.000	99572	753.4	4	8.714	-0.001	38224	826.6
Total Col1Ave (3 peaks):		348.9				Total Col2Ave (3 peaks):			440.6	RPD = 23
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1242	1	7.271	-0.000	19773	98.7	1	7.254	-0.002	16926	115.3
Aroclor-1242	2	7.653	-0.003	88099	144.8	2	7.857	-0.001	45733	148.2
Aroclor-1242	3	8.406	0.000	77842	411.2	3	9.165	-0.002	45021	468.7
Aroclor-1242	4	8.581	0.001	99572	355.8	4	9.590	-0.008	53613	458.1
Total Col1Ave (4 peaks):		252.6				Total Col2Ave (4 peaks):			297.6	RPD = 16
Corrected Ave (3 peaks):		199.8				Corrected Ave (3 peaks):			240.5	RPD = 19
Aroclor-1248	1	8.406	0.000	77842	246.8	1	8.307	-0.001	37348	247.5
Aroclor-1248	2	8.581	0.000	99572	248.3	2	8.714	-0.000	38224	245.0
Aroclor-1248	3	8.998	-0.000	186857	247.0	3	9.165	-0.000	45021	250.7
Aroclor-1248	4	9.294	-0.000	98398	255.5	4	9.590	-0.001	53613	248.7
Total Col1Ave (4 peaks):		249.4				Total Col2Ave (4 peaks):			248.0	RPD = 1
Corrected Ave (3 peaks):		247.4				Corrected Ave (3 peaks):			247.0	RPD = 0
Aroclor-1254	1	9.294	-0.004	98398	151.6	1	9.450	0.001	21823	90.8
Aroclor-1254	2	9.377	-0.001	49616	169.9	2	9.971	0.001	19450	100.6
Aroclor-1254	3	9.669	0.001	40230	96.4	3	10.124	0.000	36574	87.5
Aroclor-1254	4	9.808	0.001	68500	84.4	4	10.389	0.016	35100	86.1
Aroclor-1254	5	10.183	0.007	47365	93.1	5	10.573	0.004	5676	22.9
Total Col1Ave (5 peaks):		119.1				Total Col2Ave (5 peaks):			77.6	RPD = 42*
Corrected Ave (4 peaks):		106.4				Corrected Ave (4 peaks):			71.8	RPD = 39
Aroclor-1260	1	11.047	0.003	1670	3.0	1	11.662	0.009	2055	6.3
Aroclor-1260	2	11.362	0.001	1111	1.9	2	11.924	0.007	1466	1.8
Aroclor-1260	3	11.739	0.005	2107	1.4	3	12.434	-0.002	573	2.6
Aroclor-1260	4	12.144	0.005	1379	1.8	4	12.505	0.003	1003	1.8
Aroclor-1260	5	12.251	0.006	698	2.1	NS	---			----
Total Col1Ave (5 peaks):		2.1				Total Col2Ave (4 peaks):			3.1	RPD = 41*
Corrected Ave (4 peaks):		1.8				Corrected Ave (3 peaks):			2.0	RPD = 12
Aroclor-1262	1	10.833	0.005	15355	32.7	1	11.122	-0.079	7225	15.2
Aroclor-1262	2	12.251	0.007	698	0.9	2	11.662	0.011	2055	5.1
Aroclor-1262	3	12.321	0.002	836	1.0	3	12.434	0.000	573	1.2
Aroclor-1262	4	12.991	0.004	1043	1.4	4	12.505	0.003	1003	1.4
Total Col1Ave (4 peaks):		9.0				Total Col2Ave (4 peaks):			5.7	RPD = 45*
Corrected Ave (3 peaks):		1.1				Corrected Ave (3 peaks):			2.6	RPD = 80*
Aroclor-1268	1	12.251	0.004	698	0.4	1	12.434	0.002	573	0.5
Aroclor-1268	2	12.321	0.004	836	0.4	2	12.505	0.005	1003	0.8
Aroclor-1268	3	12.700	0.001	2449	1.5	3	12.892	0.001	721	0.7
Aroclor-1268	4	13.493	0.003	7547	1.4	4	13.708	-0.001	2265	0.7
Total Col1Ave (4 peaks):		0.9				Total Col2Ave (4 peaks):			0.7	RPD = 29
Corrected Ave (3 peaks):		0.7				Corrected Ave (3 peaks):			0.6	RPD = 13

Total PCB Area Col1 (5.906 - 13.793) = 1574335 Col1 Total PCB = 0.2 ppm*

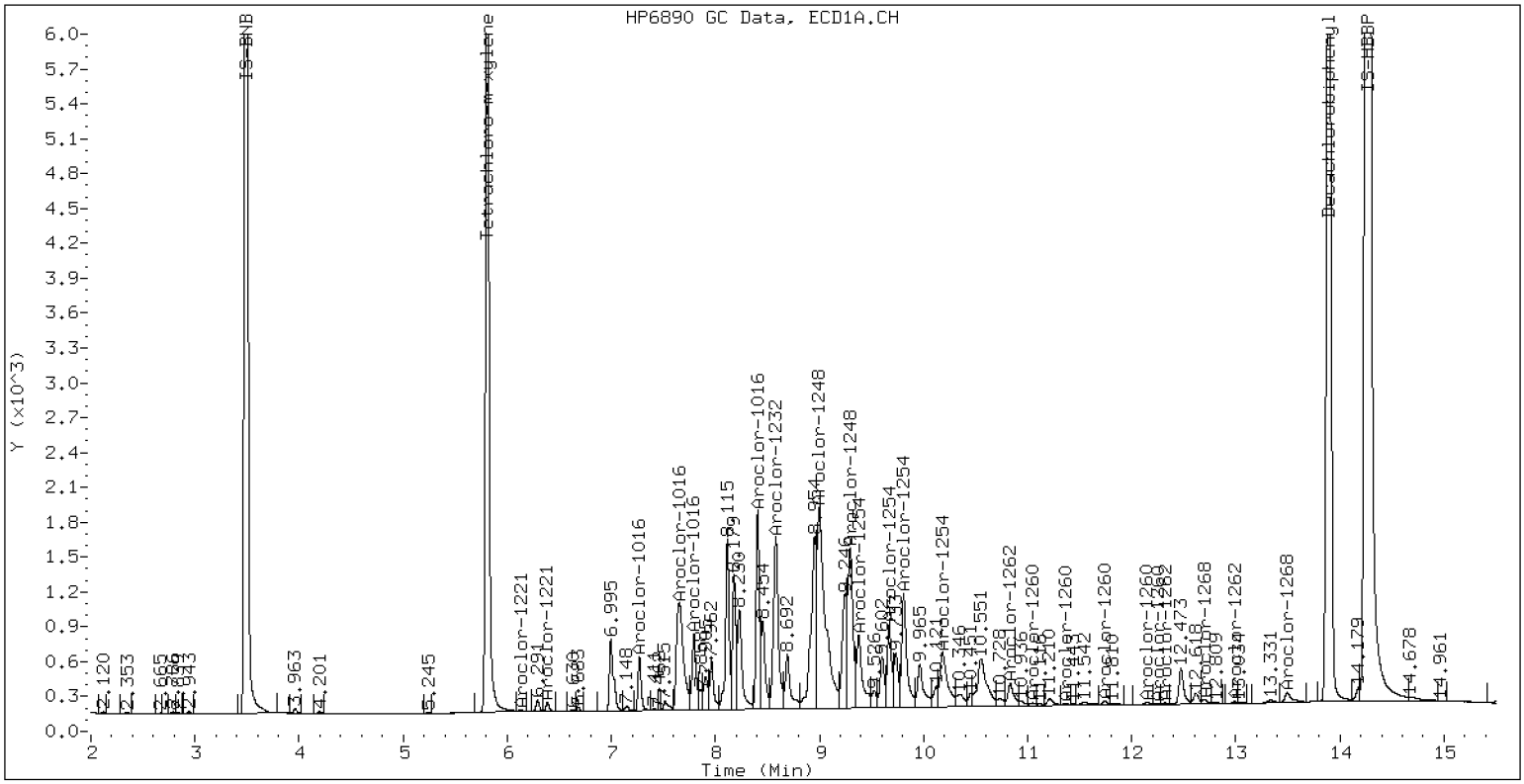
Total PCB Area Col2 (5.785 - 14.019) = 746330 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

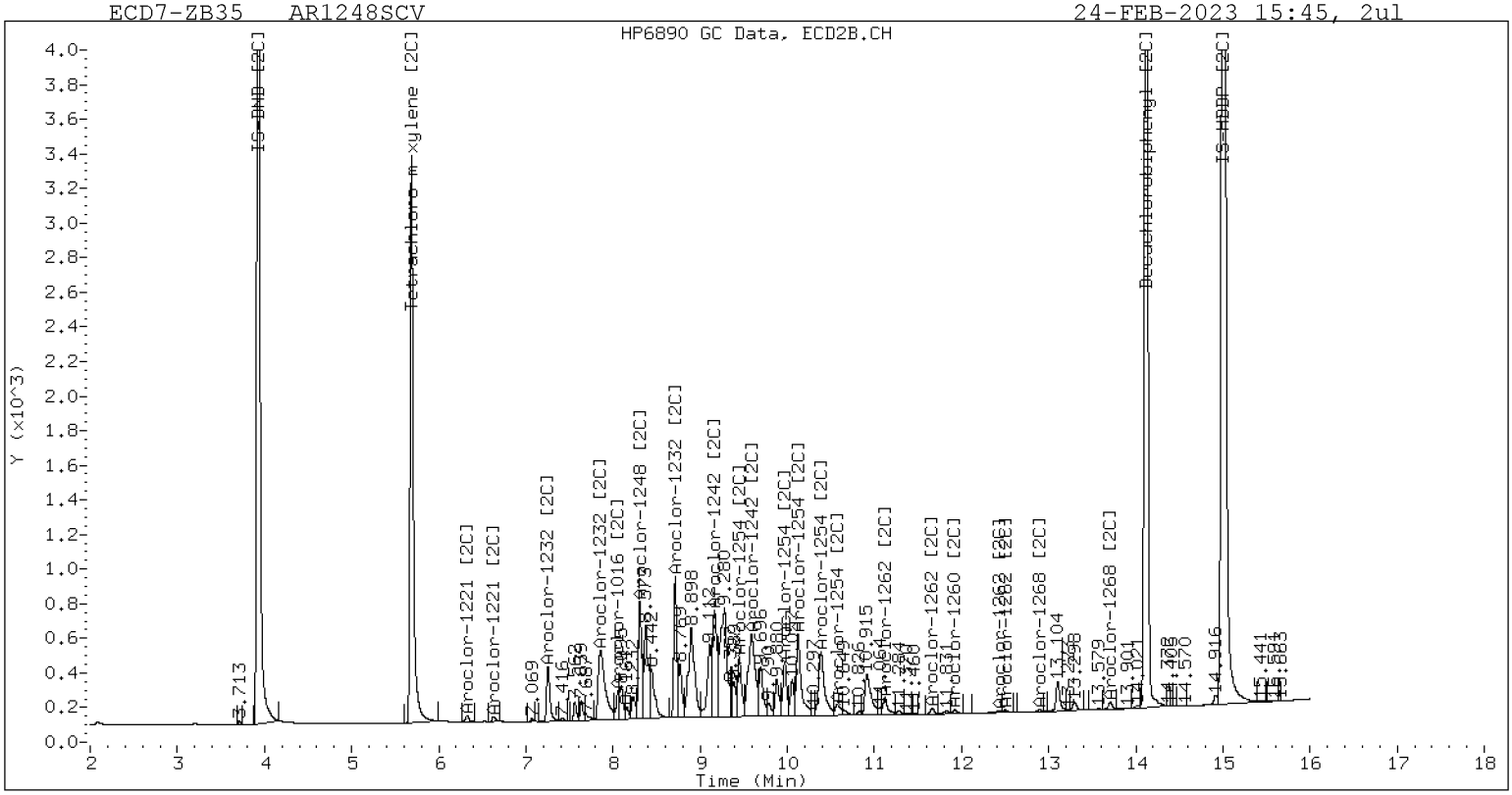
PCB Dual Column Chromatograms

ECD7-ZB5 AR1248SCV 24-FEB-2023 15:45, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1248SCV 24-FEB-2023 15:45, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230224.b/02242316ECD7.D
Data file 2: /230224.b/230224.b/02242316ECD7.D
Method: \\target\share\chem4\ecd7.i\230224.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254SCV
Client ID:
Injection Date: 24-FEB-2023 16:06
Report Date: 02/28/2023 09:51
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.806	-0.000	354312	5.686	0.001	174604	36.1	37.1	2.6	Tetrachloro-m-xylene
13.895	0.002	540961	14.119	-0.000	329134	34.6	37.9	9.0	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	656887	-2.5
Hexabromobiphenyl	1429847	1585505	10.9

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	320936	1.8
Hexabromobiphenyl	513946	570006	10.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.270	0.000	565	2.3	1	7.255	-0.001	387	2.1
Aroclor-1016	2	7.656	0.002	1875	2.5	2	7.854	-0.002	860	2.3
Aroclor-1016	3	7.792	0.002	1106	3.0	3	8.098	0.043	578	3.4
Aroclor-1016	4	8.405	0.000	29924	124.7	4	8.307	0.000	21985	162.9
	Total Col1Ave (4 peaks):				33.1	Total Col2Ave (4 peaks):				42.6 RPD = 25
	Corrected Ave (3 peaks):				2.6	Corrected Ave (3 peaks):				2.6 RPD = 0
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	6.325	0.028	1947	33.9
Aroclor-1221	3	---			0.0	3	6.637	0.015	368	3.9
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	7.255	0.001	387	4.7
Aroclor-1232	3	7.656	0.000	1875	5.9	3	7.854	-0.007	860	5.3
Aroclor-1232	4	8.583	0.002	12327	91.8	4	8.715	0.000	15013	319.7
	Col1Ave: <3 Quant Peaks					Col2Ave: 109.9				
Aroclor-1242	1	7.270	-0.000	565	2.8	1	7.255	-0.001	387	2.6
Aroclor-1242	2	7.656	0.000	1875	3.0	2	7.854	-0.004	860	2.7
Aroclor-1242	3	8.405	-0.000	29924	155.6	3	9.169	0.002	21933	224.9
Aroclor-1242	4	8.583	0.003	12327	43.4	4	9.545	-0.053	34065	286.6
	Total Col1Ave (4 peaks):				51.2	Total Col2Ave (4 peaks):				129.2 RPD = 87*
	Corrected Ave (3 peaks):				16.4	Corrected Ave (3 peaks):				76.7 RPD = 130*
Aroclor-1248	1	8.405	0.000	29924	93.4	1	8.307	-0.001	21985	143.5
Aroclor-1248	2	8.583	0.002	12327	30.3	2	8.715	0.001	15013	94.8
Aroclor-1248	3	8.992	-0.007	145580	189.4	3	9.169	0.004	21933	120.3
Aroclor-1248	4	9.298	0.003	155450	397.3	4	9.545	-0.046	34065	155.6
	Total Col1Ave (4 peaks):				177.6	Total Col2Ave (4 peaks):				128.5 RPD = 32
	Corrected Ave (3 peaks):				104.3	Corrected Ave (3 peaks):				119.5 RPD = 14
Aroclor-1254	1	9.298	-0.001	155450	235.7	1	9.450	0.001	58639	240.4
Aroclor-1254	2	9.377	-0.001	69801	235.3	2	9.971	0.000	47008	239.5
Aroclor-1254	3	9.668	-0.000	100839	237.8	3	10.124	0.000	100062	235.7
Aroclor-1254	4	9.807	0.000	190544	231.1	4	10.373	0.000	99535	240.5
Aroclor-1254	5	10.176	-0.000	122321	236.7	5	10.570	0.001	61549	244.2
	Total Col1Ave (5 peaks):				235.3	Total Col2Ave (5 peaks):				240.1 RPD = 2
	Corrected Ave (4 peaks):				234.7	Corrected Ave (4 peaks):				239.0 RPD = 2
Aroclor-1260	1	11.043	-0.002	12288	21.5	1	11.661	0.008	29062	86.7
Aroclor-1260	2	11.361	-0.001	13660	22.9	2	11.921	0.003	22238	26.0
Aroclor-1260	3	11.736	0.002	37632	23.8	3	12.441	0.005	3555	15.7
Aroclor-1260	4	12.141	0.002	27105	34.1	4	12.503	0.001	13126	22.8
Aroclor-1260	5	12.320	0.076	2381	6.9	NS	---			----
	Total Col1Ave (5 peaks):				21.9	Total Col2Ave (4 peaks):				37.8 RPD = 53*
	Corrected Ave (4 peaks):				18.8	Corrected Ave (3 peaks):				21.5 RPD = 13
Aroclor-1262	1	10.827	-0.002	220626	453.6	1	11.281	0.081	13562	27.9
Aroclor-1262	2	12.320	0.076	2381	3.0	2	11.661	0.009	29062	70.1
Aroclor-1262	3	---			0.0	3	12.441	0.007	3555	7.6
Aroclor-1262	4	12.989	0.002	3225	4.1	4	12.503	0.001	13126	17.8
	Total Col1Ave (3 peaks):				153.6	Total Col2Ave (4 peaks):				30.8 RPD = 133*
	Corrected Ave: < 3 Peaks					Corrected Ave (3 peaks):				17.7
Aroclor-1268	1	12.320	0.074	2381	1.2	1	12.441	0.009	3555	3.1
Aroclor-1268	2	---			0.0	2	12.503	0.003	13126	10.6
Aroclor-1268	3	12.701	0.002	2939	1.7	3	12.892	0.000	772	0.7
Aroclor-1268	4	13.493	0.003	9164	1.6	4	13.707	-0.002	2801	0.8
	Total Col1Ave (3 peaks):				1.5	Total Col2Ave (4 peaks):				3.8 RPD = 87*
	Corrected Ave: < 3 Peaks					Corrected Ave (3 peaks):				1.6

Total PCB Area Col1 (5.906 - 13.793) = 2118645 Col1 Total PCB = 0.3 ppm*

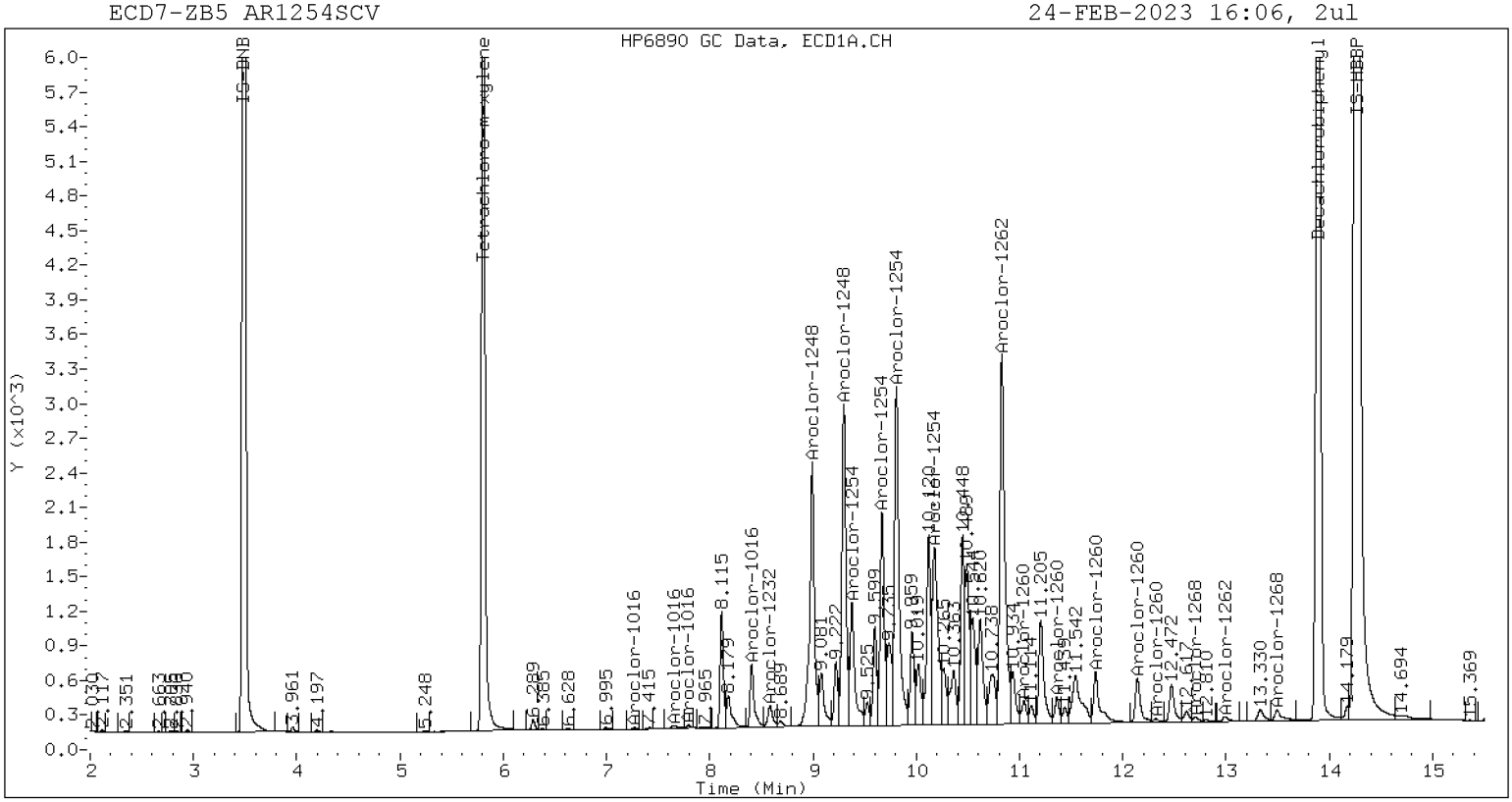
Total PCB Area Col2 (5.785 - 14.019) = 1007601 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

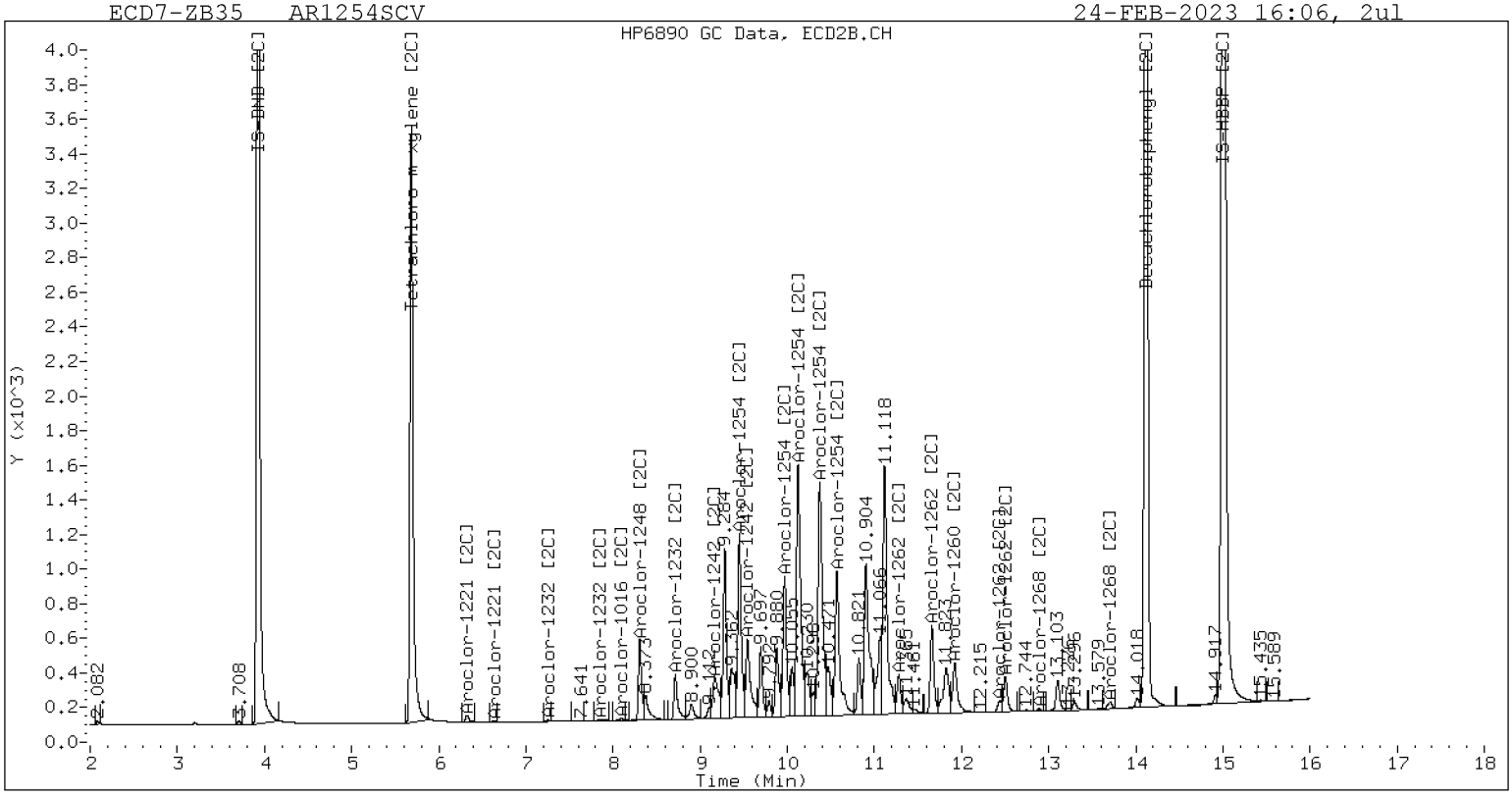
PCB Dual Column Chromatograms

ECD7-ZB5 AR1254SCV 24-FEB-2023 16:06, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1254SCV 24-FEB-2023 16:06, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230224.b/02242317ECD7.D
Data file 2: /230224.b/230224.b/02242317ECD7.D
Method: \\target\share\chem4\ecd7.i\230224.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR2162SCV
Client ID:
Injection Date: 24-FEB-2023 16:27
Report Date: 02/28/2023 09:51
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.807	0.000	356001	5.685	0.000	170882	36.0	36.6	1.7	Tetrachloro-m-xylene
13.895	0.002	533971	14.119	0.000	326235	34.4	37.9	9.5	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	661953	-1.8
Hexabromobiphenyl	1429847	1574993	10.2

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	317807	0.8
Hexabromobiphenyl	513946	565951	10.1

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.269	-0.001	7175	28.5	1	7.256	0.000	3727	20.0
Aroclor-1016	2	7.659	0.005	12893	16.8	2	7.863	0.007	5834	15.5
Aroclor-1016	3	7.794	0.004	6936	18.5	3	8.063	0.009	2963	17.4
Aroclor-1016	4	8.408	0.003	3610	14.9	4	8.308	0.002	2045	15.3
Total Col1Ave (4 peaks):					19.7	Total Col2Ave (4 peaks):				17.0 RPD = 14
Corrected Ave (3 peaks):					16.8	Corrected Ave (3 peaks):				16.1 RPD = 4
Aroclor-1221	1	4.730	-0.000	15803	266.6	1	4.955	-0.001	7909	262.9
Aroclor-1221	2	6.131	-0.001	26946	254.1	2	6.296	-0.000	14303	251.2
Aroclor-1221	3	6.382	-0.000	62477	253.8	3	6.622	0.000	23612	254.7
Total Col1Ave (3 peaks):					258.2	Total Col2Ave (3 peaks):				256.3 RPD = 1
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1232	1	4.730	0.000	15803	445.6	1	4.955	-0.001	7909	486.4
Aroclor-1232	2	6.131	0.000	26946	383.1	2	7.256	0.002	3727	46.1
Aroclor-1232	3	7.659	0.003	12893	40.5	3	7.863	0.002	5834	36.1
Aroclor-1232	4	8.583	0.003	2684	19.8	4	8.716	0.002	1189	25.6
Total Col1Ave (4 peaks):					222.3	Total Col2Ave (4 peaks):				148.5 RPD = 40
Corrected Ave (3 peaks):					147.8	Corrected Ave (3 peaks):				35.9 RPD = 122*
Aroclor-1242	1	7.269	-0.001	7175	35.0	1	7.256	0.000	3727	25.2
Aroclor-1242	2	7.659	0.003	12893	20.7	2	7.863	0.005	5834	18.8
Aroclor-1242	3	8.408	0.002	3610	18.6	3	9.175	0.008	1082	11.2
Aroclor-1242	4	8.583	0.004	2684	9.4	4	9.543	-0.054	1390	11.8
Total Col1Ave (4 peaks):					20.9	Total Col2Ave (4 peaks):				16.8 RPD = 22
Corrected Ave (3 peaks):					16.2	Corrected Ave (3 peaks):				13.9 RPD = 15
Aroclor-1248	1	8.408	0.002	3610	11.2	1	8.308	0.001	2045	13.5
Aroclor-1248	2	8.583	0.003	2684	6.5	2	8.716	0.002	1189	7.6
Aroclor-1248	3	8.994	-0.005	24440	31.6	3	9.175	0.009	1082	6.0
Aroclor-1248	4	9.302	0.008	26328	66.8	4	9.543	-0.048	1390	6.4
Total Col1Ave (4 peaks):					29.0	Total Col2Ave (4 peaks):				8.4 RPD = 110*
Corrected Ave (3 peaks):					16.4	Corrected Ave (3 peaks):				6.7 RPD = 85*
Aroclor-1254	1	9.302	0.004	26328	39.6	1	9.452	0.003	9571	39.6
Aroclor-1254	2	---			0.0	2	9.972	0.002	1733	8.9
Aroclor-1254	3	9.670	0.002	3721	8.7	3	10.147	0.023	49218	117.1
Aroclor-1254	4	9.808	0.000	9653	11.6	4	10.370	-0.002	59603	145.4
Aroclor-1254	5	10.120	-0.056	131179	251.9	5	10.569	0.001	79533	318.7
Total Col1Ave (4 peaks):					78.0	Total Col2Ave (5 peaks):				125.9 RPD = 47*
Corrected Ave (3 peaks):					20.0	Corrected Ave (4 peaks):				77.8 RPD = 118*
Aroclor-1260	1	11.044	-0.000	223208	394.0	1	11.652	-0.001	104071	312.7
Aroclor-1260	2	11.361	-0.001	190166	321.2	2	11.919	0.002	251579	296.2
Aroclor-1260	3	11.737	0.003	458281	291.9	3	12.435	-0.001	113645	504.2
Aroclor-1260	4	12.141	0.002	149720	189.4	4	12.501	-0.001	182951	319.6
Aroclor-1260	5	12.244	0.000	196033	576.0	NS	---			----
Total Col1Ave (5 peaks):					354.5	Total Col2Ave (4 peaks):				358.2 RPD = 1
Corrected Ave (4 peaks):					299.1	Corrected Ave (3 peaks):				309.5 RPD = 3
Aroclor-1262	1	10.828	-0.001	121431	251.3	1	11.201	0.000	121335	251.1
Aroclor-1262	2	12.244	0.000	196033	249.3	2	11.652	0.000	104071	252.9
Aroclor-1262	3	12.319	0.001	211092	249.8	3	12.435	0.001	113645	243.4
Aroclor-1262	4	12.988	0.001	183455	237.5	4	12.501	-0.001	182951	250.1
Total Col1Ave (4 peaks):					247.0	Total Col2Ave (4 peaks):				249.3 RPD = 1
Corrected Ave (3 peaks):					245.5	Corrected Ave (3 peaks):				248.2 RPD = 1
Aroclor-1268	1	12.244	-0.002	196033	97.1	1	12.435	0.003	113645	99.7
Aroclor-1268	2	12.319	0.002	211092	105.6	2	12.501	0.001	182951	149.3
Aroclor-1268	3	12.723	0.024	77240	45.2	3	12.891	-0.000	7755	7.4
Aroclor-1268	4	13.488	-0.002	65479	11.6	4	13.709	0.000	35146	10.5
Total Col1Ave (4 peaks):					64.9	Total Col2Ave (4 peaks):				66.7 RPD = 3

Corrected Ave (3 peaks): 51.3 Corrected Ave (3 peaks): 39.2 RPD = 27

Total PCB Area Col1 (5.906 - 13.793) = 3239932 Col1 Total PCB = 0.4 ppm*

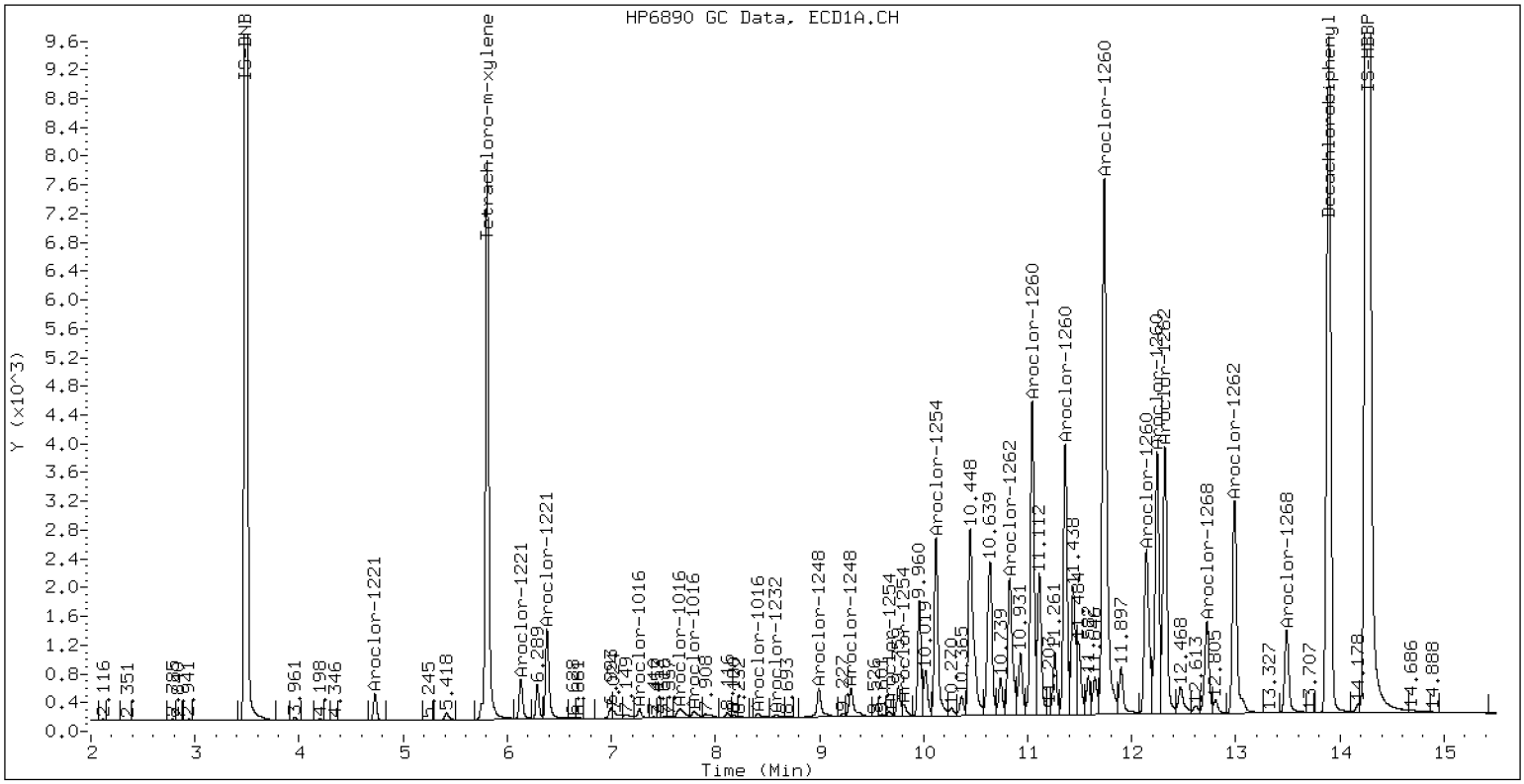
Total PCB Area Col2 (5.785 - 14.019) = 1655522 Col2 Total PCB = 0.4 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

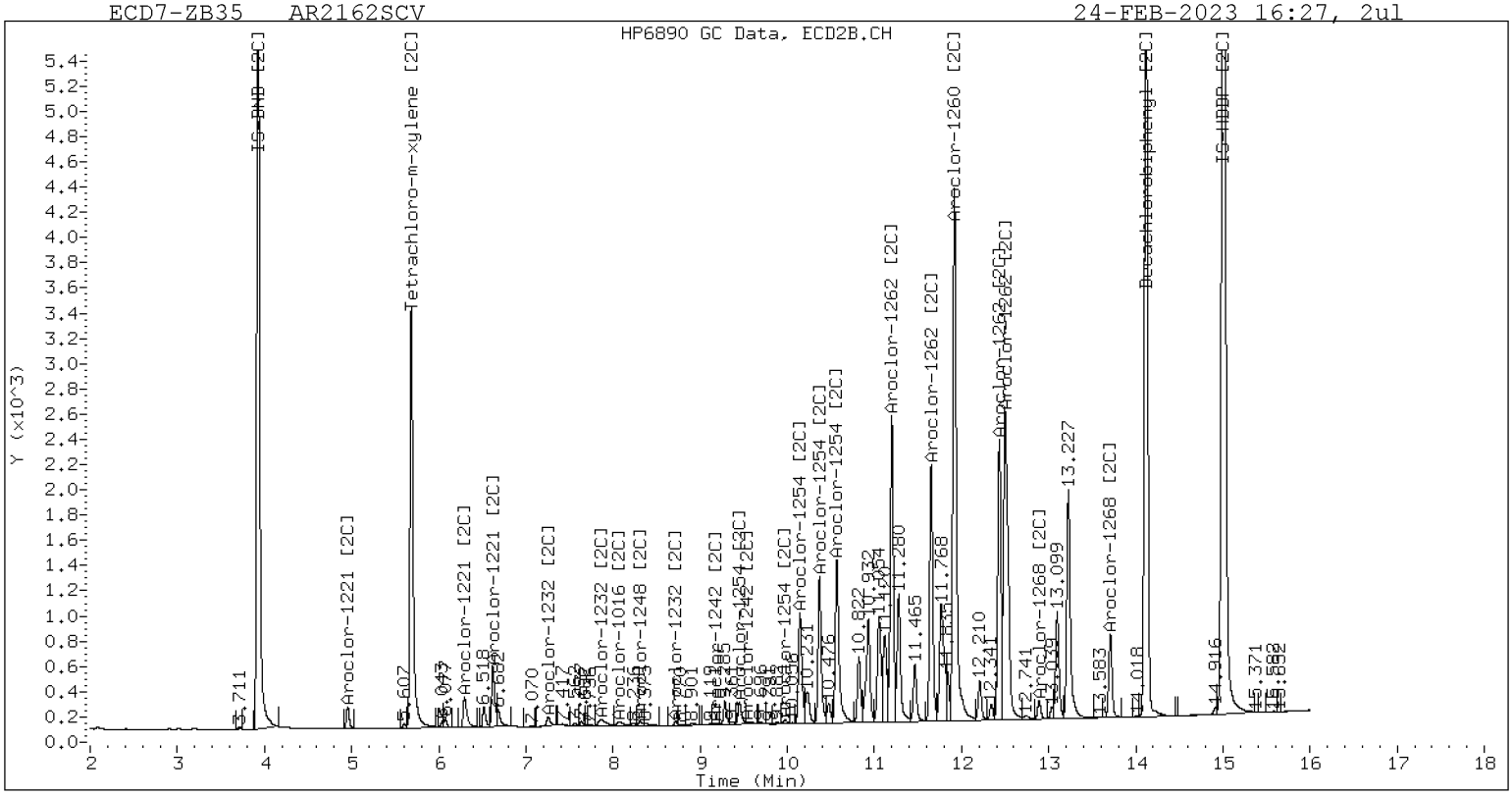
PCB Dual Column Chromatograms

ECD7-ZB5 AR2162SCV 24-FEB-2023 16:27, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR2162SCV 24-FEB-2023 16:27, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230224.b/02242318ECD7.D
Data file 2: /230224.b/230224.b/02242318ECD7.D
Method: \\target\share\chem4\ecd7.i\230224.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR3268SCV
Client ID:
Injection Date: 24-FEB-2023 16:48
Report Date: 02/28/2023 09:51
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.806	0.000	363331	5.685	0.000	176204	37.1	38.2	2.9	Tetrachloro-m-xylene
13.894	0.001	800845	14.118	-0.001	488290	51.3	56.4	9.5	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	656592	-2.6
Hexabromobiphenyl	1429847	1584453	10.8

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	314741	-0.2
Hexabromobiphenyl	513946	568346	10.6

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.270	-0.001	28327	113.6	1	7.254	-0.001	20651	112.1
Aroclor-1016	2	7.657	0.003	80668	106.1	2	7.861	0.005	41326	110.6
Aroclor-1016	3	7.793	0.003	40661	109.6	3	8.060	0.005	20446	121.2
Aroclor-1016	4	8.407	0.002	24680	102.9	4	8.308	0.001	13576	102.5
Total Col1Ave (4 peaks):					108.0	Total Col2Ave (4 peaks):				111.6 RPD = 3
Corrected Ave (3 peaks):					106.2	Corrected Ave (3 peaks):				108.4 RPD = 2
Aroclor-1221	1	4.729	-0.001	8535	145.1	1	4.956	-0.000	3965	133.1
Aroclor-1221	2	6.132	-0.000	15523	147.6	2	6.297	0.001	8689	154.1
Aroclor-1221	3	6.382	-0.000	45872	187.9	3	6.622	0.001	22272	242.6
Total Col1Ave (3 peaks):					160.2	Total Col2Ave (3 peaks):				176.6 RPD = 10
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1232	1	4.729	-0.001	8535	242.6	1	4.956	0.000	3965	246.2
Aroclor-1232	2	6.132	0.001	15523	222.5	2	7.254	0.000	20651	258.1
Aroclor-1232	3	7.657	0.001	80668	255.4	3	7.861	0.001	41326	258.3
Aroclor-1232	4	8.582	0.001	34784	259.2	4	8.714	-0.001	12504	271.5
Total Col1Ave (4 peaks):					244.9	Total Col2Ave (4 peaks):				258.5 RPD = 5
Corrected Ave (3 peaks):					240.2	Corrected Ave (3 peaks):				254.2 RPD = 6
Aroclor-1242	1	7.270	-0.001	28327	139.2	1	7.254	-0.001	20651	141.2
Aroclor-1242	2	7.657	0.001	80668	130.5	2	7.861	0.003	41326	134.4
Aroclor-1242	3	8.407	0.001	24680	128.4	3	9.170	0.003	12830	134.1
Aroclor-1242	4	8.582	0.003	34784	122.4	4	9.600	0.003	14836	127.3
Total Col1Ave (4 peaks):					130.1	Total Col2Ave (4 peaks):				134.3 RPD = 3
Corrected Ave (3 peaks):					127.1	Corrected Ave (3 peaks):				132.0 RPD = 4
Aroclor-1248	1	8.407	0.001	24680	77.0	1	8.308	0.000	13576	90.3
Aroclor-1248	2	8.582	0.001	34784	85.4	2	8.714	-0.000	12504	80.5
Aroclor-1248	3	8.996	-0.003	83592	108.8	3	9.170	0.004	12830	71.8
Aroclor-1248	4	9.292	-0.003	39603	101.3	4	9.600	0.010	14836	69.1
Total Col1Ave (4 peaks):					93.1	Total Col2Ave (4 peaks):				77.9 RPD = 18
Corrected Ave (3 peaks):					87.9	Corrected Ave (3 peaks):				73.8 RPD = 17
Aroclor-1254	1	9.292	-0.007	39603	60.1	1	9.452	0.003	4590	19.2
Aroclor-1254	2	9.377	-0.000	11450	38.6	2	9.973	0.003	2892	15.0
Aroclor-1254	3	9.674	0.005	6387	15.1	3	10.131	0.007	6052	14.5
Aroclor-1254	4	9.813	0.006	10162	12.3	4	10.390	0.017	5324	13.1
Aroclor-1254	5	10.189	0.012	6862	13.3	5	10.572	0.004	1891	7.7
Total Col1Ave (5 peaks):					27.9	Total Col2Ave (5 peaks):				13.9 RPD = 67*
Corrected Ave (4 peaks):					19.8	Corrected Ave (4 peaks):				12.6 RPD = 45*
Aroclor-1260	1	11.046	0.002	87033	152.7	1	11.645	-0.008	62543	187.1
Aroclor-1260	2	11.362	0.001	6300	10.6	2	11.920	0.003	28552	33.5
Aroclor-1260	3	11.738	0.004	54524	34.5	3	12.432	-0.004	285450	1261.2
Aroclor-1260	4	12.144	0.005	1727	2.2	4	12.499	-0.002	306992	534.0
Aroclor-1260	5	12.246	0.002	502931	1469.0	NS	---			----
Total Col1Ave (5 peaks):					333.8	Total Col2Ave (4 peaks):				503.9 RPD = 41*
Corrected Ave (4 peaks):					50.0	Corrected Ave (3 peaks):				251.5 RPD = 134*
Aroclor-1262	1	10.832	0.004	3395	7.0	1	11.201	0.001	44255	91.2
Aroclor-1262	2	12.246	0.002	502931	635.9	2	11.645	-0.007	62543	151.3
Aroclor-1262	3	12.318	-0.000	497006	584.5	3	12.432	-0.002	285450	608.7
Aroclor-1262	4	12.987	-0.000	202197	260.2	4	12.499	-0.003	306992	417.9
Total Col1Ave (4 peaks):					371.9	Total Col2Ave (4 peaks):				317.3 RPD = 16
Corrected Ave (3 peaks):					283.9	Corrected Ave (3 peaks):				220.1 RPD = 25
Aroclor-1268	1	12.246	-0.001	502931	247.7	1	12.432	-0.000	285450	249.4
Aroclor-1268	2	12.318	0.002	497006	247.2	2	12.499	-0.001	306992	249.5
Aroclor-1268	3	12.699	-0.000	422793	245.8	3	12.892	0.000	260893	248.4
Aroclor-1268	4	13.490	0.000	1386953	244.9	4	13.709	-0.000	829733	247.1
Total Col1Ave (4 peaks):					246.4	Total Col2Ave (4 peaks):				248.6 RPD = 1

Corrected Ave (3 peaks): 246.0 Corrected Ave (3 peaks): 248.3 RPD = 1

Total PCB Area Col1 (5.906 - 13.793) = 4180607 Col1 Total PCB = 0.5 ppm*

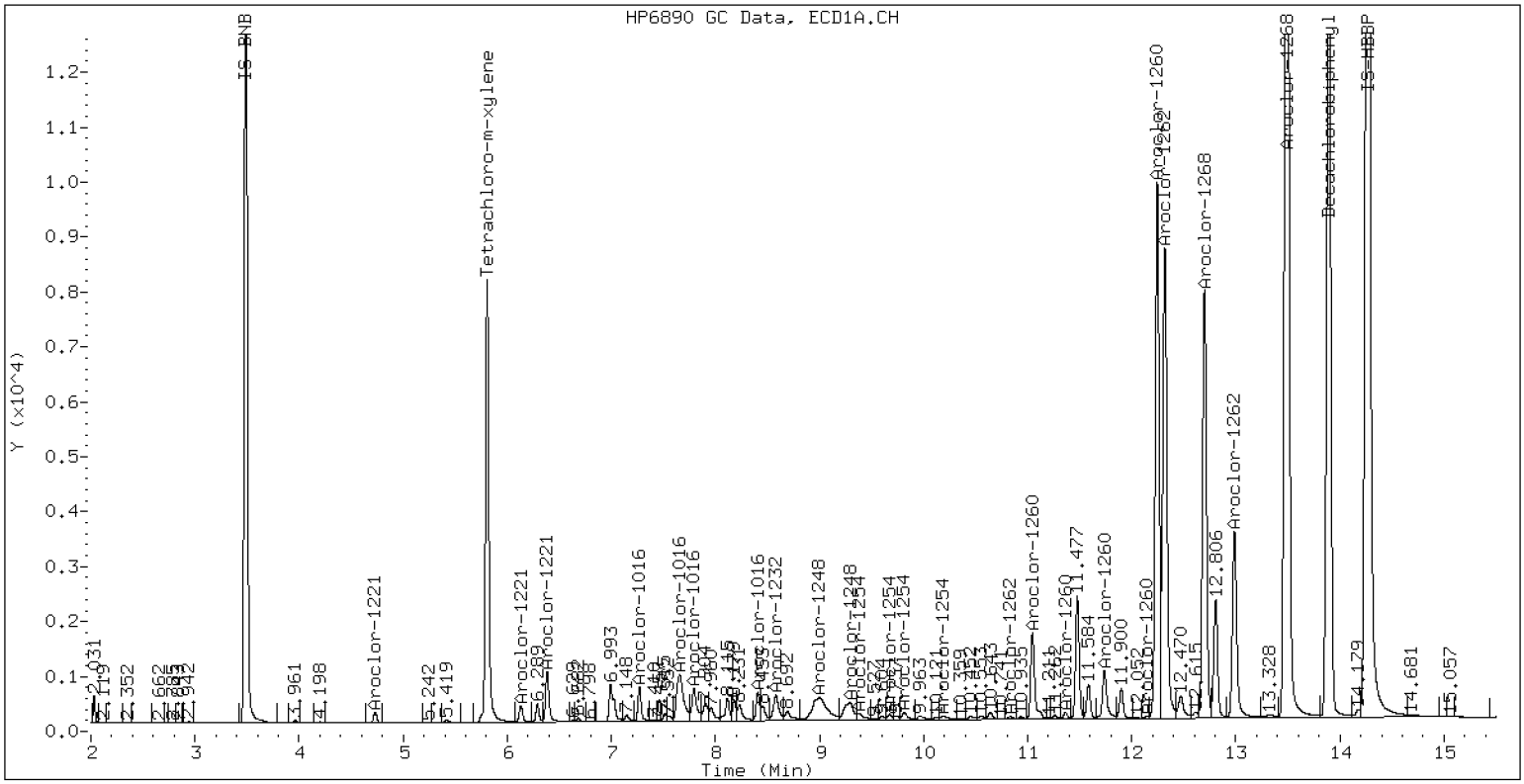
Total PCB Area Col2 (5.785 - 14.019) = 2376912 Col2 Total PCB = 0.6 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

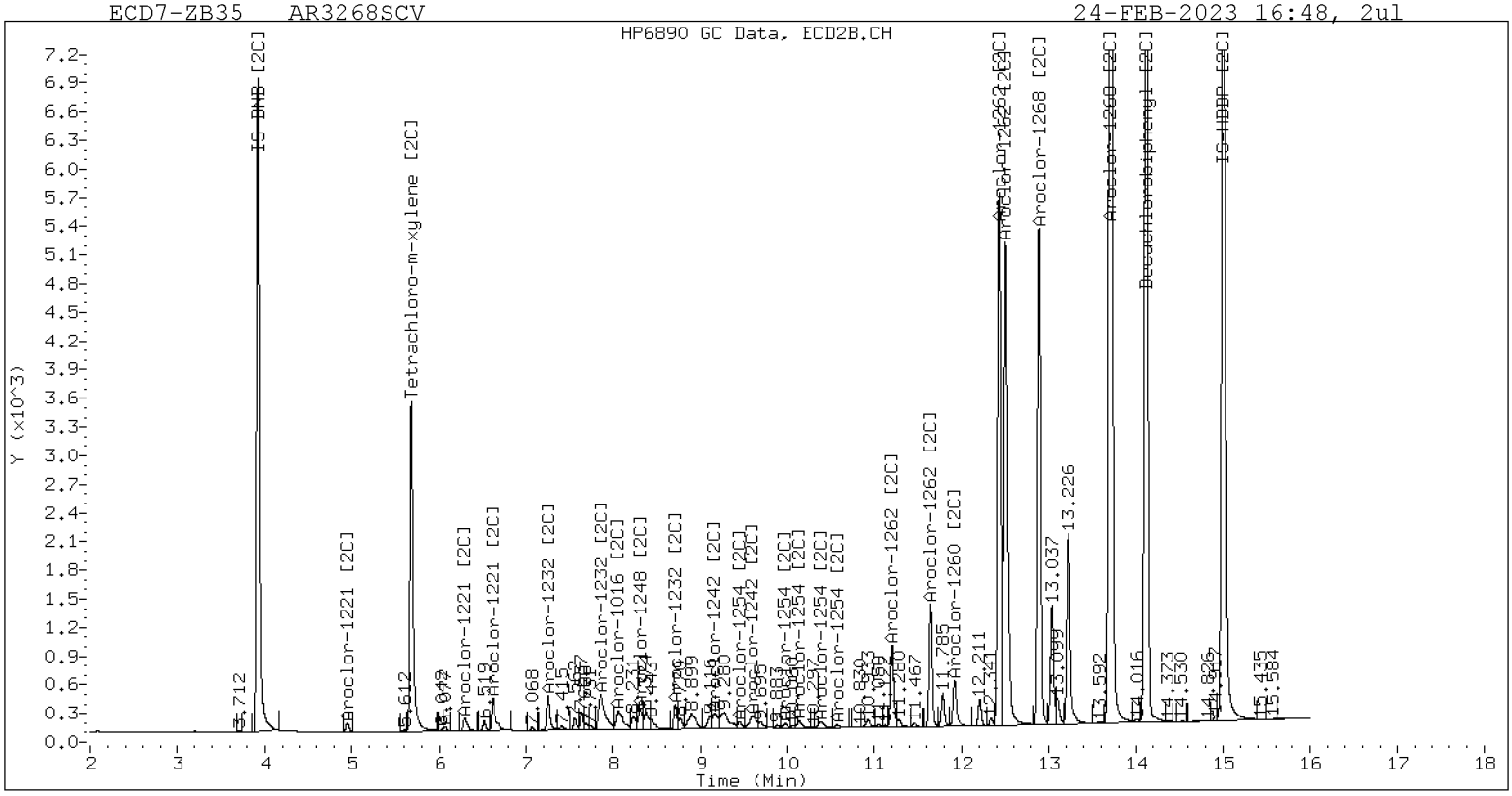
PCB Dual Column Chromatograms

ECD7-ZB5 AR3268SCV 24-FEB-2023 16:48, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR3268SCV 24-FEB-2023 16:48, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
8082 DDT SCREEN REPORT

Data file 1: /230224.b/02242319ECD7.D ARI ID: DDTS

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
9.261	0.000	694353	9.912	0.000	580269	0.100	0.100	0.0	2,4-DDE
0.000	-10.293	0	10.672	0.000	673479	0.000	0.200#	----	2,4-DDT
9.686	0.000	1191406	10.212	0.000	433373	0.100	0.100	0.0	4,4-DDE
10.259	0.000	1721760	10.672	0.000	673479	0.100	0.200#	66.7*	4,4-DDD

# Indicates value is from co-eluting peaks
* Indicates RPD > 40%

Analytical Resources Inc.
8082 DDT SCREEN REPORT

Data file 1: /230224.b/02242320ECD7.D ARI ID: DDT BD

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
9.285	0.023	4923	9.921	0.009	9972	0.001	0.002	84.3*	2,4-DDE
0.000	-10.293	0	10.677	0.004	249094	0.000	0.074#	----	2,4-DDT
9.692	0.006	12128	10.221	0.009	528	0.001	0.000	156.7*	4,4-DDE
10.265	0.006	410017	10.677	0.004	249094	0.023	0.074#	103.6*	4,4-DDD

# Indicates value is from co-eluting peaks
* Indicates RPD > 40%

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS SEQUENCE

SLB0342

Instrument: ECD7
Calibration ID: GB00069

Printed: 2/28/2023 9:54:44AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
SLB0342-CAL1	QC		1		L000856	L000844		
SLB0342-CAL2	QC		2		L000859	L000844		
SLB0342-CAL3	QC		3		L000858	L000844		
SLB0342-CAL4	QC		4		L000731	L000844		
SLB0342-CAL5	QC		5		L000857	L000844		
SLB0342-CAL6	QC		6		L000855	L000844		
SLB0342-CAL7	QC		7		L000860	L000844		
SLB0342-CAL8	QC		8		L000861	L000844		
SLB0342-CAL9	QC		9		L000862	L000844		
SLB0342-CALA	QC		10		L000863	L000844		
SLB0342-CALB	QC		11		L000864	L000844		
SLB0342-SCV1	QC		12		L002065	L000844		
SLB0342-SCV2	QC		13		K007656	L000844		
SLB0342-SCV3	QC		14		L002066	L000844		
SLB0342-SCV4	QC		15		L002067	L000844		
SLB0342-SCV5	QC		16		L002068	L000844		
SLB0342-SCV6	QC		17		L002069	L000844		

Samples Loaded By Date

Data Processed By Date

GC LOG SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230224.b

	Inject Date/Time	Filename	DF	LabID	ClientID
1	24-FEB-2023 10:51	02242301ECD7.D	1	IB	
2	24-FEB-2023 11:12	02242302ECD7.D	1	0.25PPMAR1660	
3	24-FEB-2023 11:33	02242303ECD7.D	1	0.02PPMAR1660	
4	24-FEB-2023 11:54	02242304ECD7.D	1	0.05PPMAR1660	
5	24-FEB-2023 12:15	02242305ECD7.D	1	1.0PPMAR1660	
6	24-FEB-2023 12:36	02242306ECD7.D	1	0.1PPMAR1660	
7	24-FEB-2023 12:57	02242307ECD7.D	1	0.5PPMAR1660	
8	24-FEB-2023 13:18	02242308ECD7.D	1	0.25PPMAR1242	
9	24-FEB-2023 13:39	02242309ECD7.D	1	0.25PPMAR1248	
10	24-FEB-2023 14:00	02242310ECD7.D	1	0.25PPMAR1254	
11	24-FEB-2023 14:21	02242311ECD7.D	1	0.25PPMAR2162	
12	24-FEB-2023 14:42	02242312ECD7.D	1	0.25PPMAR3268	
13	24-FEB-2023 15:03	02242313ECD7.D	1	AR1660SCV	
14	24-FEB-2023 15:24	02242314ECD7.D	1	AR1242SCV	
15	24-FEB-2023 15:45	02242315ECD7.D	1	AR1248SCV	
16	24-FEB-2023 16:06	02242316ECD7.D	1	AR1254SCV	
17	24-FEB-2023 16:27	02242317ECD7.D	1	AR2162SCV	
18	24-FEB-2023 16:48	02242318ECD7.D	1	AR3268SCV	
19	24-FEB-2023 17:09	02242319ECD7.D	1	DDTS	
20	24-FEB-2023 17:30	02242320ECD7.D	1	DDT BD	

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230224.b

ARI Job No.: IB Method: PCB.m Instrument: ecd7.i Date: 24-FEB-2023

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1051	02242301ECD7.D	IB		1	NO MANUAL INTEGRATION
1112	02242302ECD7.D	0.25PPMAR1660		1	NO MANUAL INTEGRATION
1133	02242303ECD7.D	0.02PPMAR1660		1	NO MANUAL INTEGRATION
1154	02242304ECD7.D	0.05PPMAR1660		1	NO MANUAL INTEGRATION
1215	02242305ECD7.D	1.0PPMAR1660		1	NO MANUAL INTEGRATION
1236	02242306ECD7.D	0.1PPMAR1660		1	NO MANUAL INTEGRATION
1257	02242307ECD7.D	0.5PPMAR1660		1	NO MANUAL INTEGRATION
1318	02242308ECD7.D	0.25PPMAR1242		1	NO MANUAL INTEGRATION
1339	02242309ECD7.D	0.25PPMAR1248		1	NO MANUAL INTEGRATION
1400	02242310ECD7.D	0.25PPMAR1254		1	NO MANUAL INTEGRATION
1421	02242311ECD7.D	0.25PPMAR2162		1	NO MANUAL INTEGRATION
1442	02242312ECD7.D	0.25PPMAR3268		1	NO MANUAL INTEGRATION
1503	02242313ECD7.D	AR1660SCV		1	NO MANUAL INTEGRATION
1524	02242314ECD7.D	AR1242SCV		1	NO MANUAL INTEGRATION
1545	02242315ECD7.D	AR1248SCV		1	NO MANUAL INTEGRATION
1606	02242316ECD7.D	AR1254SCV		1	NO MANUAL INTEGRATION
1627	02242317ECD7.D	AR2162SCV		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230224.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1648	02242318ECD7.D	AR3268SCV		1	NO MANUAL INTEGRATION
1709	02242319ECD7.D	DDTS		1	NO MANUAL INTEGRATION
1730	02242320ECD7.D	DDT BD		1	NO MANUAL INTEGRATION
1751	02242321ECD7.D			1	NO MANUAL INTEGRATION
1812	02242322ECD7.D			1	NO MANUAL INTEGRATION
1833	02242323ECD7.D			1	NO MANUAL INTEGRATION
1854	02242324ECD7.D			1	NO MANUAL INTEGRATION
1915	02242325ECD7.D			1	NO MANUAL INTEGRATION
1936	02242326ECD7.D			1	NO MANUAL INTEGRATION
1957	02242327ECD7.D			1	NO MANUAL INTEGRATION
2018	02242328ECD7.D			1	NO MANUAL INTEGRATION
2039	02242329ECD7.D			1	NO MANUAL INTEGRATION
2059	02242330ECD7.D			1	NO MANUAL INTEGRATION
2120	02242331ECD7.D			1	NO MANUAL INTEGRATION
2141	02242332ECD7.D			1	NO MANUAL INTEGRATION
2202	02242333ECD7.D			1	NO MANUAL INTEGRATION
2223	02242334ECD7.D			1	NO MANUAL INTEGRATION
2244	02242335ECD7.D			1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230224.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
2305	02242336ECD7.D			1	NO MANUAL INTEGRATION
2326	02242337ECD7.D			1	NO MANUAL INTEGRATION
2347	02242338ECD7.D			1	NO MANUAL INTEGRATION
0008	02242339ECD7.D			1	NO MANUAL INTEGRATION
0029	02242340ECD7.D			1	NO MANUAL INTEGRATION
0050	02242341ECD7.D			1	NO MANUAL INTEGRATION
0111	02242342ECD7.D			1	NO MANUAL INTEGRATION
0132	02242343ECD7.D			1	NO MANUAL INTEGRATION
0153	02242344ECD7.D			1	NO MANUAL INTEGRATION
0214	02242345ECD7.D			1	NO MANUAL INTEGRATION
0235	02242346ECD7.D			1	NO MANUAL INTEGRATION
0256	02242347ECD7.D			1	NO MANUAL INTEGRATION
0317	02242348ECD7.D			1	NO MANUAL INTEGRATION
0338	02242349ECD7.D			1	NO MANUAL INTEGRATION
0359	02242350ECD7.D			1	NO MANUAL INTEGRATION
0420	02242351ECD7.D			1	NO MANUAL INTEGRATION
0441	02242352ECD7.D			1	NO MANUAL INTEGRATION
0502	02242353ECD7.D			1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230224.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0523	02242354ECD7.D			1	NO MANUAL INTEGRATION
0544	02242355ECD7.D			1	NO MANUAL INTEGRATION
0605	02242356ECD7.D			1	NO MANUAL INTEGRATION
0626	02242357ECD7.D			1	NO MANUAL INTEGRATION
0647	02242358ECD7.D			1	NO MANUAL INTEGRATION
0708	02242359ECD7.D			1	NO MANUAL INTEGRATION
0729	02242360ECD7.D			1	NO MANUAL INTEGRATION
0750	02242361ECD7.D			1	NO MANUAL INTEGRATION
0811	02242362ECD7.D			1	NO MANUAL INTEGRATION
0832	02242363ECD7.D			1	NO MANUAL INTEGRATION
0853	02242364ECD7.D			1	NO MANUAL INTEGRATION
0914	02242365ECD7.D			1	NO MANUAL INTEGRATION
0935	02242366ECD7.D			1	NO MANUAL INTEGRATION
0956	02242367ECD7.D			1	NO MANUAL INTEGRATION
1017	02242368ECD7.D			1	NO MANUAL INTEGRATION
1038	02242369ECD7.D			1	NO MANUAL INTEGRATION
1059	02242370ECD7.D			1	NO MANUAL INTEGRATION
1120	02242371ECD7.D			1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230224.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1141	02242372ECD7.D			1	NO MANUAL INTEGRATION
1202	02242373ECD7.D			1	NO MANUAL INTEGRATION
1223	02242374ECD7.D			1	NO MANUAL INTEGRATION
1244	02242375ECD7.D			1	NO MANUAL INTEGRATION
1305	02242376ECD7.D			1	NO MANUAL INTEGRATION
1326	02242377ECD7.D			1	NO MANUAL INTEGRATION
1347	02242378ECD7.D			1	NO MANUAL INTEGRATION
1408	02242379ECD7.D			1	NO MANUAL INTEGRATION
1429	02242380ECD7.D			1	NO MANUAL INTEGRATION
1450	02242381ECD7.D			1	NO MANUAL INTEGRATION
1511	02242382ECD7.D			1	NO MANUAL INTEGRATION
1532	02242383ECD7.D			1	NO MANUAL INTEGRATION
1553	02242384ECD7.D			1	NO MANUAL INTEGRATION
1051	02242301ECD7.D	IB		1	NO MANUAL INTEGRATION
1112	02242302ECD7.D	0.25PPMAR1660		1	NO MANUAL INTEGRATION
1133	02242303ECD7.D	0.02PPMAR1660		1	Aroclor-1016 [2C],
1154	02242304ECD7.D	0.05PPMAR1660		1	NO MANUAL INTEGRATION
1215	02242305ECD7.D	1.0PPMAR1660		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230224.b\230224.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1236	02242306ECD7.D	0.1PPMAR1660		1	NO MANUAL INTEGRATION
1257	02242307ECD7.D	0.5PPMAR1660		1	NO MANUAL INTEGRATION
1318	02242308ECD7.D	0.25PPMAR1242		1	NO MANUAL INTEGRATION
1339	02242309ECD7.D	0.25PPMAR1248		1	NO MANUAL INTEGRATION
1400	02242310ECD7.D	0.25PPMAR1254		1	NO MANUAL INTEGRATION
1421	02242311ECD7.D	0.25PPMAR2162		1	NO MANUAL INTEGRATION
1442	02242312ECD7.D	0.25PPMAR3268		1	NO MANUAL INTEGRATION
1503	02242313ECD7.D	AR1660SCV		1	NO MANUAL INTEGRATION
1524	02242314ECD7.D	AR1242SCV		1	NO MANUAL INTEGRATION
1545	02242315ECD7.D	AR1248SCV		1	NO MANUAL INTEGRATION
1606	02242316ECD7.D	AR1254SCV		1	NO MANUAL INTEGRATION
1627	02242317ECD7.D	AR2162SCV		1	NO MANUAL INTEGRATION
1648	02242318ECD7.D	AR3268SCV		1	NO MANUAL INTEGRATION
1709	02242319ECD7.D	DDTS		1	NO MANUAL INTEGRATION
1730	02242320ECD7.D	DDT BD		1	NO MANUAL INTEGRATION
1751	02242321ECD7.D			1	NO MANUAL INTEGRATION
1812	02242322ECD7.D			1	NO MANUAL INTEGRATION
1833	02242323ECD7.D			1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230224.b\230224.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1854	02242324ECD7.D			1	NO MANUAL INTEGRATION
1915	02242325ECD7.D			1	NO MANUAL INTEGRATION
1936	02242326ECD7.D			1	NO MANUAL INTEGRATION
1957	02242327ECD7.D			1	NO MANUAL INTEGRATION
2018	02242328ECD7.D			1	NO MANUAL INTEGRATION
2038	02242329ECD7.D			1	NO MANUAL INTEGRATION
2059	02242330ECD7.D			1	NO MANUAL INTEGRATION
2120	02242331ECD7.D			1	NO MANUAL INTEGRATION
2141	02242332ECD7.D			1	NO MANUAL INTEGRATION
2202	02242333ECD7.D			1	NO MANUAL INTEGRATION
2223	02242334ECD7.D			1	NO MANUAL INTEGRATION
2244	02242335ECD7.D			1	NO MANUAL INTEGRATION
2305	02242336ECD7.D			1	NO MANUAL INTEGRATION
2326	02242337ECD7.D			1	NO MANUAL INTEGRATION
2347	02242338ECD7.D			1	NO MANUAL INTEGRATION
0008	02242339ECD7.D			1	NO MANUAL INTEGRATION
0029	02242340ECD7.D			1	NO MANUAL INTEGRATION
0050	02242341ECD7.D			1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230224.b\230224.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0111	02242342ECD7.D			1	NO MANUAL INTEGRATION
0132	02242343ECD7.D			1	NO MANUAL INTEGRATION
0153	02242344ECD7.D			1	NO MANUAL INTEGRATION
0214	02242345ECD7.D			1	NO MANUAL INTEGRATION
0235	02242346ECD7.D			1	NO MANUAL INTEGRATION
0256	02242347ECD7.D			1	NO MANUAL INTEGRATION
0317	02242348ECD7.D			1	NO MANUAL INTEGRATION
0338	02242349ECD7.D			1	NO MANUAL INTEGRATION
0359	02242350ECD7.D			1	NO MANUAL INTEGRATION
0420	02242351ECD7.D			1	NO MANUAL INTEGRATION
0441	02242352ECD7.D			1	NO MANUAL INTEGRATION
0502	02242353ECD7.D			1	NO MANUAL INTEGRATION
0523	02242354ECD7.D			1	NO MANUAL INTEGRATION
0544	02242355ECD7.D			1	NO MANUAL INTEGRATION
0605	02242356ECD7.D			1	NO MANUAL INTEGRATION
0626	02242357ECD7.D			1	NO MANUAL INTEGRATION
0647	02242358ECD7.D			1	NO MANUAL INTEGRATION
0708	02242359ECD7.D			1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230224.b\230224.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0729	02242360ECD7.D			1	NO MANUAL INTEGRATION
0750	02242361ECD7.D			1	NO MANUAL INTEGRATION
0811	02242362ECD7.D			1	NO MANUAL INTEGRATION
0832	02242363ECD7.D			1	NO MANUAL INTEGRATION
0853	02242364ECD7.D			1	NO MANUAL INTEGRATION
0914	02242365ECD7.D			1	NO MANUAL INTEGRATION
0935	02242366ECD7.D			1	NO MANUAL INTEGRATION
0956	02242367ECD7.D			1	NO MANUAL INTEGRATION
1017	02242368ECD7.D			1	NO MANUAL INTEGRATION
1038	02242369ECD7.D			1	NO MANUAL INTEGRATION
1059	02242370ECD7.D			1	NO MANUAL INTEGRATION
1120	02242371ECD7.D			1	NO MANUAL INTEGRATION
1141	02242372ECD7.D			1	NO MANUAL INTEGRATION
1202	02242373ECD7.D			1	NO MANUAL INTEGRATION
1223	02242374ECD7.D			1	NO MANUAL INTEGRATION
1244	02242375ECD7.D			1	NO MANUAL INTEGRATION
1305	02242376ECD7.D			1	NO MANUAL INTEGRATION
1326	02242377ECD7.D			1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230224.b\230224.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1347	02242378ECD7.D			1	NO MANUAL INTEGRATION
1408	02242379ECD7.D			1	NO MANUAL INTEGRATION
1429	02242380ECD7.D			1	NO MANUAL INTEGRATION
1450	02242381ECD7.D			1	NO MANUAL INTEGRATION
1511	02242382ECD7.D			1	NO MANUAL INTEGRATION
1532	02242383ECD7.D			1	NO MANUAL INTEGRATION
1553	02242384ECD7.D			1	NO MANUAL INTEGRATION

Security Status Report

Date: 28-Feb-2023 10:53

02242301ECD7.D	Data Locked	richardl, 28-Feb-2023 10:53
02242302ECD7.D	Data Locked	richardl, 28-Feb-2023 10:53
02242303ECD7.D	Data Locked	richardl, 28-Feb-2023 10:53
02242304ECD7.D	Data Locked	richardl, 28-Feb-2023 10:53
02242305ECD7.D	Data Locked	richardl, 28-Feb-2023 10:53
02242306ECD7.D	Data Locked	richardl, 28-Feb-2023 10:53
02242307ECD7.D	Data Locked	richardl, 28-Feb-2023 10:53
02242308ECD7.D	Data Locked	richardl, 28-Feb-2023 10:53
02242309ECD7.D	Data Locked	richardl, 28-Feb-2023 10:53
02242310ECD7.D	Data Locked	richardl, 28-Feb-2023 10:53
02242311ECD7.D	Data Locked	richardl, 28-Feb-2023 10:53
02242312ECD7.D	Data Locked	richardl, 28-Feb-2023 10:53
02242313ECD7.D	Data Locked	richardl, 28-Feb-2023 10:53
02242314ECD7.D	Data Locked	richardl, 28-Feb-2023 10:53
02242315ECD7.D	Data Locked	richardl, 28-Feb-2023 10:53
02242316ECD7.D	Data Locked	richardl, 28-Feb-2023 10:53
02242317ECD7.D	Data Locked	richardl, 28-Feb-2023 10:53
02242318ECD7.D	Data Locked	richardl, 28-Feb-2023 10:53
02242319ECD7.D	Data Locked	richardl, 28-Feb-2023 10:53
02242320ECD7.D	Data Locked	richardl, 28-Feb-2023 10:53

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2023 11:12
End Cal Date : 24-FEB-2023 14:42
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd7.i\230224.b\PCB.m
Last Edit : 24-Feb-2023 15:31 richardl
Curve Type : Average

Calibration File Names:
Level 1: \\target\share\chem4\ecd7.i\230224.b\02242303ECD7.D
Level 2: \\target\share\chem4\ecd7.i\230224.b\02242304ECD7.D
Level 3: \\target\share\chem4\ecd7.i\230224.b\02242306ECD7.D
Level 4: \\target\share\chem4\ecd7.i\230224.b\02242302ECD7.D
Level 5: \\target\share\chem4\ecd7.i\230224.b\02242307ECD7.D
Level 6: \\target\share\chem4\ecd7.i\230224.b\02242305ECD7.D
Level 7: \\target\share\chem4\ecd7.i\230224.b\02242312ECD7.D

Compound	20.000 Level 1	50.000 Level 2	100.000 Level 3	250.000 Level 4	500.000 Level 5	1000.000 Level 6	250.000 Level 7	RRF	% RSD
2 Aroclor-1221(1)	+++++	+++++	+++++	+++++	+++++	+++++	0.00716	0.00716	0.000
(2)	+++++	+++++	+++++	+++++	+++++	+++++	0.01281	0.01281	0.000
(3)	+++++	+++++	+++++	+++++	+++++	+++++	0.02975	0.02975	0.000
3 Aroclor-1242(1)	+++++	+++++	+++++	+++++	+++++	+++++	0.02479	0.02479	0.000
(2)	+++++	+++++	+++++	+++++	+++++	+++++	0.07529	0.07529	0.000
(3)	+++++	+++++	+++++	+++++	+++++	+++++	0.02343	0.02343	0.000
(4)	+++++	+++++	+++++	+++++	+++++	+++++	0.03463	0.03463	0.000
4 Aroclor-1232(1)	+++++	+++++	+++++	+++++	+++++	+++++	0.00429	0.00429	0.000

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2023 11:12
End Cal Date : 24-FEB-2023 14:42
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd7.i\230224.b\PCB.m
Last Edit : 24-Feb-2023 15:31 richardl
Curve Type : Average

Compound	20.000 Level 1	50.000 Level 2	100.000 Level 3	250.000 Level 4	500.000 Level 5	1000.000 Level 6	250.000 Level 7	RRF	% RSD
(2)	+++++	+++++	+++++	+++++	+++++	+++++	0.00850	0.00850	0.000
(3)	+++++	+++++	+++++	+++++	+++++	+++++	0.03848	0.03848	0.000
(4)	+++++	+++++	+++++	+++++	+++++	+++++	0.01635	0.01635	0.000
7 Aroclor-1016(1)	0.03172	0.03253	0.03142	0.03141	0.02856	0.02667	+++++	0.03039	7.449
(2)	0.09239	0.09246	0.09222	0.09849	0.09174	0.08849	+++++	0.09263	3.499
(3)	0.05165	0.05037	0.04823	0.04393	0.03991	0.03721	+++++	0.04522	12.936
(4)	0.03002	0.02894	0.02959	0.03058	0.02852	0.02774	+++++	0.02923	3.542
6 Aroclor-1248(1)	+++++	+++++	+++++	+++++	+++++	+++++	0.03903	0.03903	0.000
(2)	+++++	+++++	+++++	+++++	+++++	+++++	0.04961	0.04961	0.000
(3)	+++++	+++++	+++++	+++++	+++++	+++++	0.09360	0.09360	0.000
(4)	+++++	+++++	+++++	+++++	+++++	+++++	0.04765	0.04765	0.000

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2023 11:12
End Cal Date : 24-FEB-2023 14:42
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd7.i\230224.b\PCB.m
Last Edit : 24-Feb-2023 15:31 richardl
Curve Type : Average

Compound	20.000 Level 1	50.000 Level 2	100.000 Level 3	250.000 Level 4	500.000 Level 5	1000.000 Level 6	250.000 Level 7	___ RRF	% RSD
8 Aroclor-1254(1)	+++++	+++++	+++++	+++++	+++++	+++++	0.08033	0.08033	0.000
(2)	+++++	+++++	+++++	+++++	+++++	+++++	0.03613	0.03613	0.000
(3)	+++++	+++++	+++++	+++++	+++++	+++++	0.05165	0.05165	0.000
(4)	+++++	+++++	+++++	+++++	+++++	+++++	0.10042	0.10042	0.000
(5)	+++++	+++++	+++++	+++++	+++++	+++++	0.06294	0.06294	0.000
9 Aroclor-1260(1)	0.02926	0.02920	0.02841	0.03096	0.02737	0.02746	+++++	0.02878	4.677
(2)	0.02967	0.03006	0.03011	0.03291	0.02910	0.02857	+++++	0.03007	5.029
(3)	0.08088	0.08045	0.07954	0.08575	0.07515	0.07674	+++++	0.07975	4.627
(4)	0.03905	0.03887	0.03955	0.04485	0.03942	0.03922	+++++	0.04016	5.753
(5)	0.01783	0.01715	0.01679	0.01875	0.01664	0.01655	+++++	0.01729	4.953
10 Aroclor-1262(1)	+++++	+++++	+++++	+++++	+++++	+++++	0.02454	0.02454	0.000

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2023 11:12
End Cal Date : 24-FEB-2023 14:42
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd7.i\230224.b\PCB.m
Last Edit : 24-Feb-2023 15:31 richardl
Curve Type : Average

Compound	20.000 Level 1	50.000 Level 2	100.000 Level 3	250.000 Level 4	500.000 Level 5	1000.000 Level 6	250.000 Level 7	___ RRF	% RSD
(2)	+++++	+++++	+++++	+++++	+++++	+++++			
	0.03993							0.03993	0.000
(3)	+++++	+++++	+++++	+++++	+++++	+++++			
	0.04293							0.04293	0.000
(4)	+++++	+++++	+++++	+++++	+++++	+++++			
	0.03923							0.03923	0.000
11 Aroclor-1268(1)	+++++	+++++	+++++	+++++	+++++	+++++			
	0.10250							0.10250	0.000
(2)	+++++	+++++	+++++	+++++	+++++	+++++			
	0.10151							0.10151	0.000
(3)	+++++	+++++	+++++	+++++	+++++	+++++			
	0.08686							0.08686	0.000
(4)	+++++	+++++	+++++	+++++	+++++	+++++			
	0.28598							0.28598	0.000
42 2,4-DDE	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++							+++++	+++++
43 2,4-DDD	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++							+++++	+++++
44 2,4-DDT	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++							+++++	+++++
46 4,4-DDE	+++++	+++++	+++++	+++++	+++++	+++++			
	+++++							+++++	+++++

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2023 11:12
End Cal Date : 24-FEB-2023 14:42
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd7.i\230224.b\PCB.m
Last Edit : 24-Feb-2023 15:31 richardl
Curve Type : Average

Compound	20.000 Level 1	50.000 Level 2	100.000 Level 3	250.000 Level 4	500.000 Level 5	1000.000 Level 6	250.000 Level 7	___ RRF	% RSD
47 4,4-DDD	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
48 4,4-DDT	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
49 Hexachlorobutadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
50 Hexachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 1 Tetrachloro-m-xylene	1.16827	1.24402	1.18546	1.20509	1.12295	1.24114	+++++	1.19449	3.860
$ 13 Decachlorobiphenyl	0.82901	0.80558	0.77587	0.78808	0.73125	0.79742	+++++	0.78787	4.189

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2023 11:12
End Cal Date : 24-FEB-2023 14:42
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd7.i\230224.b\PCB.m\PCB2.m
Last Edit : 24-Feb-2023 15:29 richardl
Curve Type : Average

Calibration File Names:
Level 1: \\target\share\chem4\ecd7.i\230224.b\230224.b\02242303ECD7.D
Level 2: \\target\share\chem4\ecd7.i\230224.b\230224.b\02242304ECD7.D
Level 3: \\target\share\chem4\ecd7.i\230224.b\230224.b\02242306ECD7.D
Level 4: \\target\share\chem4\ecd7.i\230224.b\230224.b\02242302ECD7.D
Level 5: \\target\share\chem4\ecd7.i\230224.b\230224.b\02242307ECD7.D
Level 6: \\target\share\chem4\ecd7.i\230224.b\230224.b\02242305ECD7.D
Level 7: \\target\share\chem4\ecd7.i\230224.b\230224.b\02242312ECD7.D

Compound	20.000 Level 1	50.000 Level 2	100.000 Level 3	250.000 Level 4	500.000 Level 5	1000.000 Level 6	250.000 Level 7	___ RRF	% RSD
1 Aroclor-1221 [2C](1)	+++++	+++++	+++++	+++++	+++++	+++++	0.00757	0.00757	0.000
(2)	+++++	+++++	+++++	+++++	+++++	+++++	0.01433	0.01433	0.000
(3)	+++++	+++++	+++++	+++++	+++++	+++++	0.02333	0.02333	0.000
4 Aroclor-1232 [2C](1)	+++++	+++++	+++++	+++++	+++++	+++++	0.00409	0.00409	0.000
(2)	+++++	+++++	+++++	+++++	+++++	+++++	0.02034	0.02034	0.000
(3)	+++++	+++++	+++++	+++++	+++++	+++++	0.04067	0.04067	0.000
(4)	+++++	+++++	+++++	+++++	+++++	+++++	0.01170	0.01170	0.000
3 Aroclor-1242 [2C](1)	+++++	+++++	+++++	+++++	+++++	+++++	0.03717	0.03717	0.000

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2023 11:12
End Cal Date : 24-FEB-2023 14:42
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd7.i\230224.b\PCB.m\PCB2.m
Last Edit : 24-Feb-2023 15:29 richardl
Curve Type : Average

Compound	20.000 Level 1	50.000 Level 2	100.000 Level 3	250.000 Level 4	500.000 Level 5	1000.000 Level 6	250.000 Level 7	___ RRF	% RSD
(2)	*****	*****	*****	*****	*****	*****			
	0.07813							0.07813	0.000
(3)	*****	*****	*****	*****	*****	*****			
	0.02431							0.02431	0.000
(4)	*****	*****	*****	*****	*****	*****			
	0.02962							0.02962	0.000
6 Aroclor-1248 [2C](1)	*****	*****	*****	*****	*****	*****			
	0.03820							0.03820	0.000
(2)	*****	*****	*****	*****	*****	*****			
	0.03949							0.03949	0.000
(3)	*****	*****	*****	*****	*****	*****			
	0.04545							0.04545	0.000
(4)	*****	*****	*****	*****	*****	*****			
	0.05457							0.05457	0.000
7 Aroclor-1016 [2C](1)	0.05071	0.05022	0.04868	0.04733	0.04326	0.04080			
	*****							0.04683	8.503
(2)	0.08143	0.09407	0.10159	0.10259	0.09651	0.09362			
	*****							0.09497	8.025
(3)	0.04006	0.04718	0.04613	0.04410	0.04062	0.03926			
	*****							0.04289	7.857
(4)	0.03181	0.03802	0.03707	0.03450	0.03115	0.02936			
	*****							0.03365	10.251

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2023 11:12
End Cal Date : 24-FEB-2023 14:42
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd7.i\230224.b\PCB.m\PCB2.m
Last Edit : 24-Feb-2023 15:29 richardl
Curve Type : Average

Compound	20.000 Level 1	50.000 Level 2	100.000 Level 3	250.000 Level 4	500.000 Level 5	1000.000 Level 6	250.000 Level 7	RRF	% RSD
8 Aroclor-1254 [2C](1)	*****	*****	*****	*****	*****	*****	0.06081	0.06081	0.000
(2)	*****	*****	*****	*****	*****	*****	0.04892	0.04892	0.000
(3)	*****	*****	*****	*****	*****	*****	0.10584	0.10584	0.000
(4)	*****	*****	*****	*****	*****	*****	0.10317	0.10317	0.000
(5)	*****	*****	*****	*****	*****	*****	0.06282	0.06282	0.000
10 Aroclor-1262 [2C](1)	*****	*****	*****	*****	*****	*****	0.06831	0.06831	0.000
(2)	*****	*****	*****	*****	*****	*****	0.05818	0.05818	0.000
(3)	*****	*****	*****	*****	*****	*****	0.06601	0.06601	0.000
(4)	*****	*****	*****	*****	*****	*****	0.10341	0.10341	0.000
9 Aroclor-1260 [2C](1)	0.05286	0.04911	0.04696	0.04801	0.04329	0.04201	*****	0.04704	8.422
(2)	0.12976	0.12431	0.12095	0.12664	0.11320	0.10545	*****	0.12005	7.605

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2023 11:12
End Cal Date : 24-FEB-2023 14:42
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd7.i\230224.b\PCB.m\PCB2.m
Last Edit : 24-Feb-2023 15:29 richardl
Curve Type : Average

Compound	20.000 Level 1 / 250.000 Level 7	50.000 Level 2	100.000 Level 3	250.000 Level 4	500.000 Level 5	1000.000 Level 6	___ RRF	% RSD
(3)	0.03524 / +++++	0.03147	0.02937	0.03208	0.03102	0.03198	0.03186	6.045
(4)	0.08632 / +++++	0.08237	0.08044	0.08393	0.07718	0.07531	0.08092	5.126
11 Aroclor-1268 [2C](1)	+++++ / 0.16109	+++++	+++++	+++++	+++++	+++++	0.16109	0.000
(2)	+++++ / 0.17318	+++++	+++++	+++++	+++++	+++++	0.17318	0.000
(3)	+++++ / 0.14787	+++++	+++++	+++++	+++++	+++++	0.14787	0.000
(4)	+++++ / 0.47260	+++++	+++++	+++++	+++++	+++++	0.47260	0.000
41 2,4-DDE [2C]	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
42 2,4-DDD [2C]	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
44 4,4-DDE [2C]	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
45 4,4-DDD/2,4-DDT [2C]	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
46 4,4-DDT [2C]	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 24-FEB-2023 11:12
End Cal Date : 24-FEB-2023 14:42
Quant Method : ISTD
Origin : Disabled
Target Version : 4.14
Integrator : HP Genie
Method file : \\target\share\chem4\ecd7.i\230224.b\PCB.m\PCB2.m
Last Edit : 24-Feb-2023 15:29 richardl
Curve Type : Average

Compound	20.000 Level 1	50.000 Level 2	100.000 Level 3	250.000 Level 4	500.000 Level 5	1000.000 Level 6	250.000 Level 7	___ RRF	% RSD
48 Hexachlorobutadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
49 Hexachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++	+++++
$ 2 Tetrachloro-m-xylene [2C]	1.21526	1.19545	1.17555	1.21907	1.12560	1.11139	+++++	1.17372	3.897
$ 13 Decachlorobiphenyl [2C]	1.17066	1.20406	1.20549	1.31040	1.21104	1.20797	+++++	1.21827	3.898

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd7.i\230224.b\PCB.m
Batch File: \\target\share\chem4\ecd7.i\230224.b
Inst ID: ecd7.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06
FILENAME:	02242302ECD7	02242303ECD7	02242304ECD7	02242305ECD7	02242306ECD7	02242307ECD7
INJ.DATE:	24-FEB-2023	24-FEB-2023	24-FEB-2023	24-FEB-2023	24-FEB-2023	24-FEB-2023
INJ.TIME:	11:12	11:33	11:54	12:15	12:36	12:57

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
* 41 IS-BNB	3.493	3.492	3.492	3.492	3.491	3.491	3.493	3.393-3.593	3.492	0.001
$ 1 Tetrachloro-m-xylene	5.811	5.809	5.809	5.813	5.809	5.810	5.811	5.711-5.911	5.810	0.002
2 Aroclor-1221	+++++	+++++	+++++	+++++	+++++	+++++	4.732	4.632-4.832	+++++	+++++
3 Aroclor-1242	+++++	+++++	+++++	+++++	+++++	+++++	7.269	7.169-7.369	+++++	+++++
4 Aroclor-1232	+++++	+++++	+++++	+++++	+++++	+++++	4.732	4.632-4.832	+++++	+++++
7 Aroclor-1016	7.272	7.272	7.272	7.270	7.271	7.270	7.272	7.172-7.372	7.271	0.001
6 Aroclor-1248	+++++	+++++	+++++	+++++	+++++	+++++	8.403	8.303-8.503	+++++	+++++
8 Aroclor-1254	+++++	+++++	+++++	+++++	+++++	+++++	9.295	9.195-9.395	+++++	+++++
9 Aroclor-1260	11.046	11.047	11.046	11.044	11.045	11.044	11.046	10.946-11.146	11.045	0.001
10 Aroclor-1262	+++++	+++++	+++++	+++++	+++++	+++++	10.824	10.724-10.924	+++++	+++++
11 Aroclor-1268	+++++	+++++	+++++	+++++	+++++	+++++	12.243	12.143-12.343	+++++	+++++
$ 13 Decachlorobiphenyl	13.897	13.893	13.893	13.899	13.892	13.898	13.897	13.797-13.997	13.895	0.003
* 12 IS-HBBP	14.269	14.268	14.268	14.267	14.268	14.268	14.269	14.169-14.369	14.268	0.001
42 2,4-DDE	+++++	+++++	+++++	+++++	+++++	+++++	9.260	9.210-9.310	+++++	+++++
43 2,4-DDD	+++++	+++++	+++++	+++++	+++++	+++++	9.801	9.751-9.851	+++++	+++++
44 2,4-DDT	+++++	+++++	+++++	+++++	+++++	+++++	10.293	10.243-10.343	+++++	+++++
46 4,4-DDE	+++++	+++++	+++++	+++++	+++++	+++++	9.683	9.583-9.783	+++++	+++++

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

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd7.i\230224.b\PCB.m
Batch File: \\target\share\chem4\ecd7.i\230224.b
Inst ID: ecd7.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
47 4,4-DDD	+++++	+++++	+++++	+++++	+++++	+++++	10.254	10.154-10.354	+++++	+++++
48 4,4-DDT	+++++	+++++	+++++	+++++	+++++	+++++	10.754	10.654-10.854	+++++	+++++
49 Hexachlorobutadiene	+++++	+++++	+++++	+++++	+++++	+++++	1.842	1.742-1.942	+++++	+++++
50 Hexachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	6.708	6.608-6.808	+++++	+++++

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd7.i\230224.b\PCB.m\PCB2.m
Batch File: \\target\share\chem4\ecd7.i\230224.b\230224.b
Inst ID: ecd7.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06
FILENAME:	02242302ECD7	02242303ECD7	02242304ECD7	02242305ECD7	02242306ECD7	02242307ECD7
INJ.DATE:	24-FEB-2023	24-FEB-2023	24-FEB-2023	24-FEB-2023	24-FEB-2023	24-FEB-2023
INJ.TIME:	11:12	11:33	11:54	12:15	12:36	12:57

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
* 40 IS-BNB [2C]	3.928	3.929	3.929	3.929	3.928	3.929	3.928	3.828-4.028	3.929	0.000
$ 2 Tetrachloro-m-xylene [	5.687	5.688	5.688	5.688	5.688	5.688	5.687	5.587-5.787	5.688	0.001
1 Aroclor-1221 [2C]	+++++	+++++	+++++	+++++	+++++	+++++	4.958	4.858-5.058	+++++	+++++
4 Aroclor-1232 [2C]	+++++	+++++	+++++	+++++	+++++	+++++	4.958	4.859-5.059	+++++	+++++
3 Aroclor-1242 [2C]	+++++	+++++	+++++	+++++	+++++	+++++	7.254	7.154-7.354	+++++	+++++
6 Aroclor-1248 [2C]	+++++	+++++	+++++	+++++	+++++	+++++	8.305	8.205-8.405	+++++	+++++
7 Aroclor-1016 [2C]	7.255	7.256	7.256	7.254	7.255	7.256	7.255	7.155-7.355	7.255	0.001
8 Aroclor-1254 [2C]	+++++	+++++	+++++	+++++	+++++	+++++	9.447	9.347-9.547	+++++	+++++
10 Aroclor-1262 [2C]	+++++	+++++	+++++	+++++	+++++	+++++	11.198	11.098-11.298	+++++	+++++
9 Aroclor-1260 [2C]	11.653	11.656	11.655	11.652	11.655	11.653	11.653	11.553-11.753	11.654	0.001
11 Aroclor-1268 [2C]	+++++	+++++	+++++	+++++	+++++	+++++	12.431	12.331-12.531	+++++	+++++
$ 13 Decachlorobiphenyl [2C	14.120	14.120	14.119	14.122	14.119	14.120	14.120	14.020-14.220	14.120	0.001
* 12 IS-HBBP [2C]	15.008	15.008	15.008	15.008	15.007	15.008	15.008	14.908-15.108	15.008	0.000
41 2,4-DDE [2C]	+++++	+++++	+++++	+++++	+++++	+++++	9.911	9.861-9.961	+++++	+++++
42 2,4-DDD [2C]	+++++	+++++	+++++	+++++	+++++	+++++	9.536	9.486-9.586	+++++	+++++
44 4,4-DDE [2C]	+++++	+++++	+++++	+++++	+++++	+++++	10.209	10.109-10.309	+++++	+++++
45 4,4-DDD/2,4-DDT [2C]	+++++	+++++	+++++	+++++	+++++	+++++	10.667	10.567-10.767	+++++	+++++

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

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem4\ecd7.i\230224.b\PCB.m\PCB2.m
Batch File: \\target\share\chem4\ecd7.i\230224.b\230224.b
Inst ID: ecd7.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	EXPEC RT	RT WINDOW	AVG RT	STD DEV
46 4,4-DDT [2C]	+++++	+++++	+++++	+++++	+++++	+++++	11.092	10.992-11.192	+++++	+++++
48 Hexachlorobutadiene	+++++	+++++	+++++	+++++	+++++	+++++	1.703	1.603-1.803	+++++	+++++
49 Hexachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	7.178	7.078-7.278	+++++	+++++

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230224.b/02242301ECD7.D
Data file 2: /230224.b/230224.b/02242301ECD7.D
Method: \\target\share\chem4\ecd7.i\230224.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: IB
Client ID:
Injection Date: 24-FEB-2023 10:51
Report Date: 02/28/2023 09:50
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.826	0.019	382217	5.683	-0.002	180378	33.8	36.5	7.7	Tetrachloro-m-xylene
13.904	0.011	534110	14.120	0.001	295605	35.3	37.2	5.2	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	756896	12.3
Hexabromobiphenyl	1429847	1534275	7.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	336543	6.8
Hexabromobiphenyl	513946	521508	1.5

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	6.321	0.025	1873	31.1
Aroclor-1221	3	---			0.0	3	6.633	0.012	314	3.2
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	7.698	0.043	2193	6.0	3	---			0.0
Aroclor-1232	4	8.505	-0.076	11525	74.5	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	7.698	0.042	2193	3.1	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	8.505	-0.074	11525	35.2	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	---			0.0	1	---			0.0
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	---			0.0
Aroclor-1248	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1254	1	---			0.0	1	---			0.0
Aroclor-1254	2	---			0.0	2	---			0.0
Aroclor-1254	3	9.596	-0.072	31424	64.3	3	---			0.0
Aroclor-1254	4	---			0.0	4	---			0.0
Aroclor-1254	5	10.167	-0.010	18361	30.8	5	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1260	1	11.098	0.054	6994	12.7	1	---			0.0
Aroclor-1260	2	---			0.0	2	---			0.0
Aroclor-1260	3	11.706	-0.027	7806	5.1	3	---			0.0
Aroclor-1260	4	---			0.0	4	---			0.0
Aroclor-1260	5	---			0.0	NS	---			----
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1262	1	10.824	-0.005	16873	35.8	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	13.040	0.053	14031	18.6	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	12.709	0.009	6037	3.6	3	12.891	-0.001	659	0.7
Aroclor-1268	4	13.499	0.010	12396	2.3	4	13.710	0.001	1848	0.6
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.906 - 13.793) = 260205 Col1 Total PCB = 0.0 ppm*

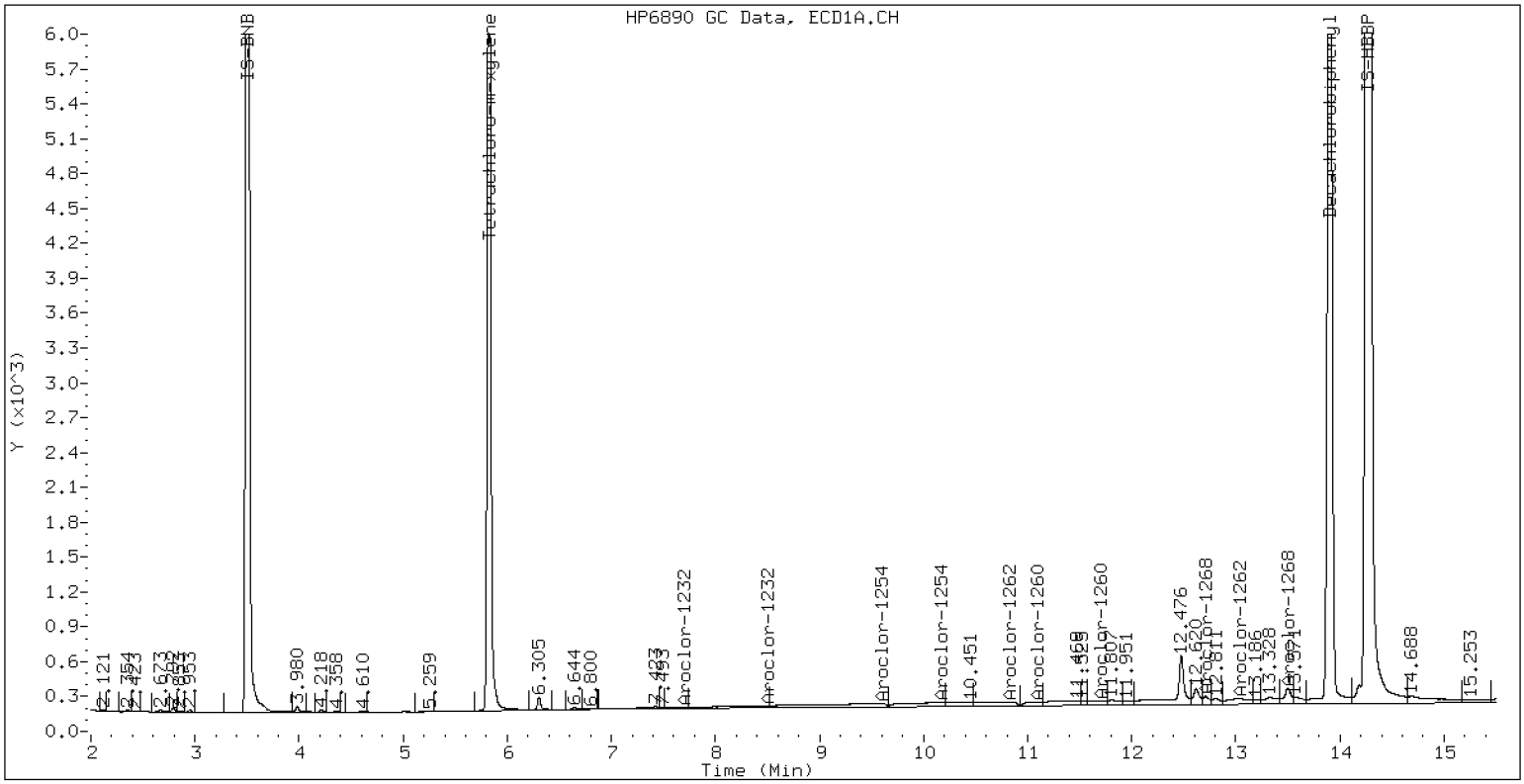
Total PCB Area Col2 (5.785 - 14.019) = 18252 Col2 Total PCB = 0.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

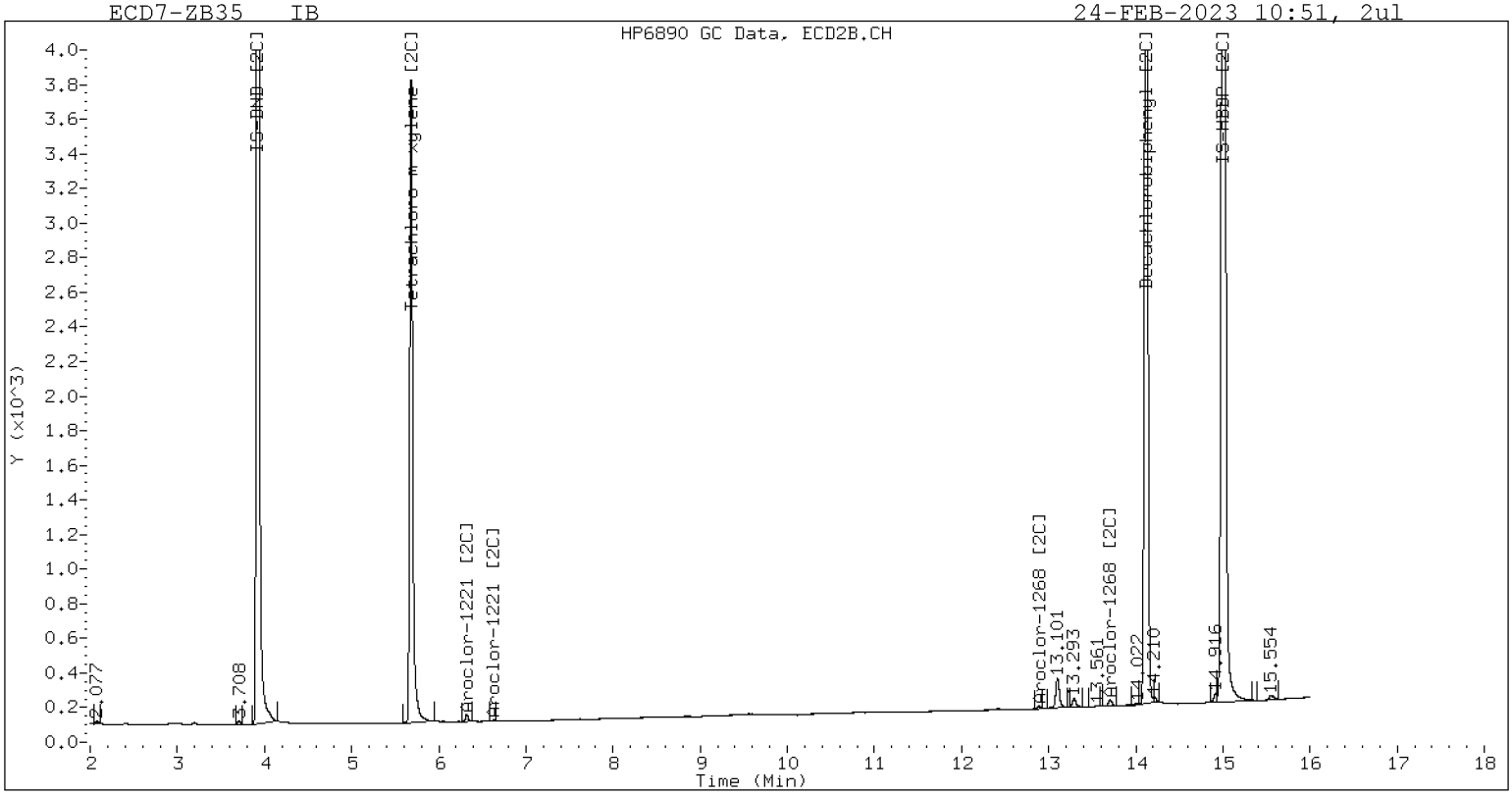
PCB Dual Column Chromatograms

ECD7-ZB5 IB 24-FEB-2023 10:51, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 IB 24-FEB-2023 10:51, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230224.b/02242302ECD7.D
Data file 2: /230224.b/230224.b/02242302ECD7.D
Method: \\target\share\chem4\ecd7.i\230224.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 0.25PPMAR1660
Client ID:
Injection Date: 24-FEB-2023 11:12
Report Date: 02/28/2023 09:50
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.811	0.005	405980	5.687	0.002	192160	40.4	41.5	2.9	Tetrachloro-m-xylene
13.897	0.004	563414	14.120	0.001	336737	40.0	43.0	7.3	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	673778	0.0
Hexabromobiphenyl	1429847	1429847	0.0

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	315256	0.0
Hexabromobiphenyl	513946	513946	0.0

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1016	1	7.272	0.001	66125	258.4	1	7.255	-0.001	46626	252.6
Aroclor-1016	2	7.654	-0.000	207370	265.8	2	7.855	-0.001	101071	270.1
Aroclor-1016	3	7.792	0.002	92507	242.9	3	8.055	0.001	43448	257.1
Aroclor-1016	4	8.406	0.001	64388	261.5	4	8.306	-0.000	33986	256.3
	Total Col1Ave (4 peaks):				257.2	Total Col2Ave (4 peaks):				259.0 RPD = 1
	Corrected Ave (3 peaks):				254.3	Corrected Ave (3 peaks):				255.3 RPD = 0
			CalAmt %D:		2.9			CalAmt %D:		3.6
Aroclor-1260	1	11.046	0.001	138355	269.0	1	11.653	0.001	77114	255.2
Aroclor-1260	2	11.363	0.002	147051	273.6	2	11.918	0.001	203401	263.7
Aroclor-1260	3	11.736	0.003	383171	268.8	3	12.435	-0.000	51517	251.7
Aroclor-1260	4	12.141	0.002	200399	279.2	4	12.502	0.001	134797	259.3
Aroclor-1260	5	12.247	0.003	83796	271.2	NS	---			----
	Total Col1Ave (5 peaks):				272.4	Total Col2Ave (4 peaks):				257.5 RPD = 6
	Corrected Ave (4 peaks):				270.7	Corrected Ave (3 peaks):				255.4 RPD = 6
			CalAmt %D:		8.9			CalAmt %D:		3.0

Total PCB Area Col1 (5.906 - 13.793) = 4024419 Col1 Total PCB = 0.5 ppm*

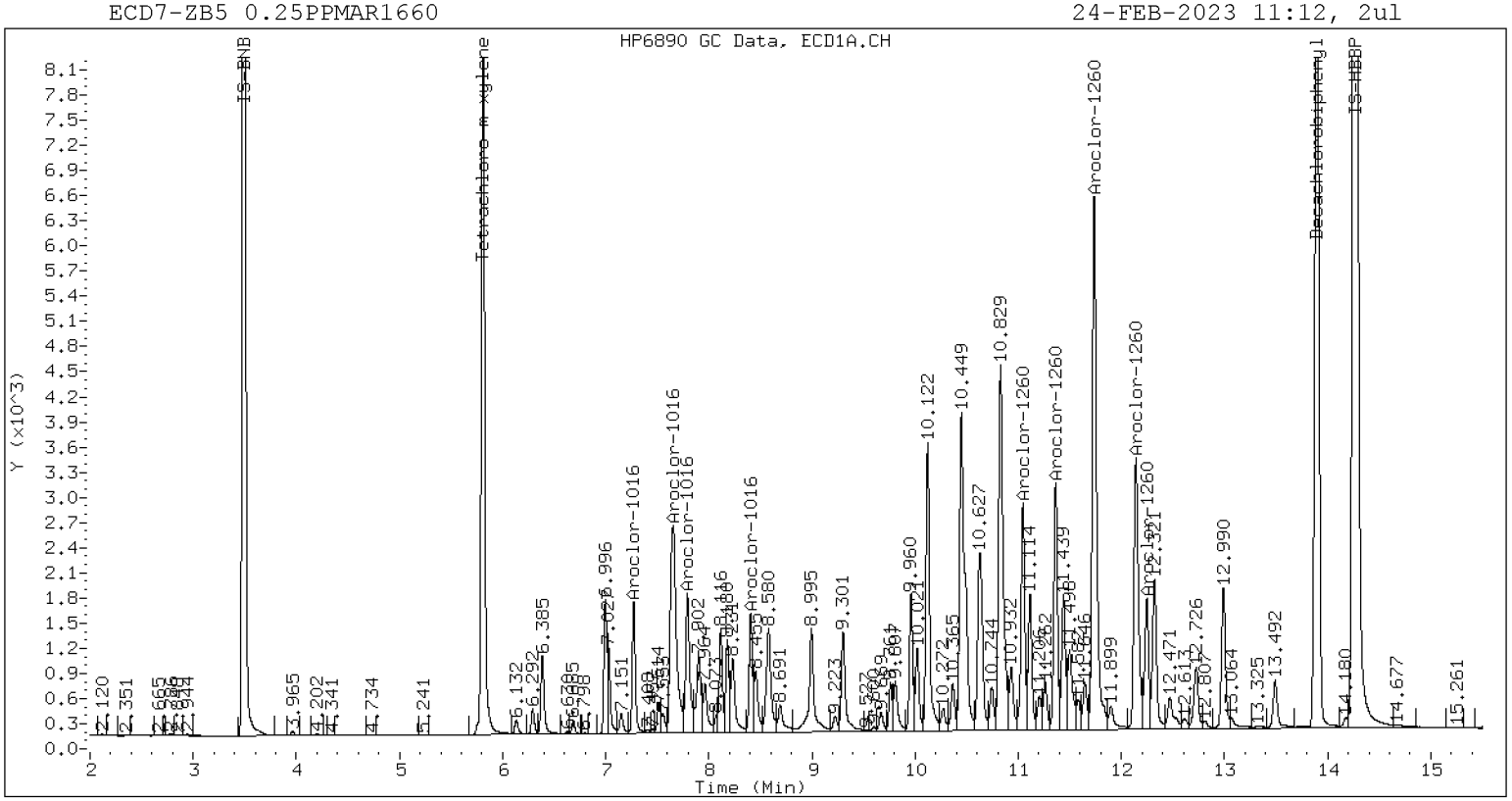
Total PCB Area Col2 (5.785 - 14.019) = 1889311 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

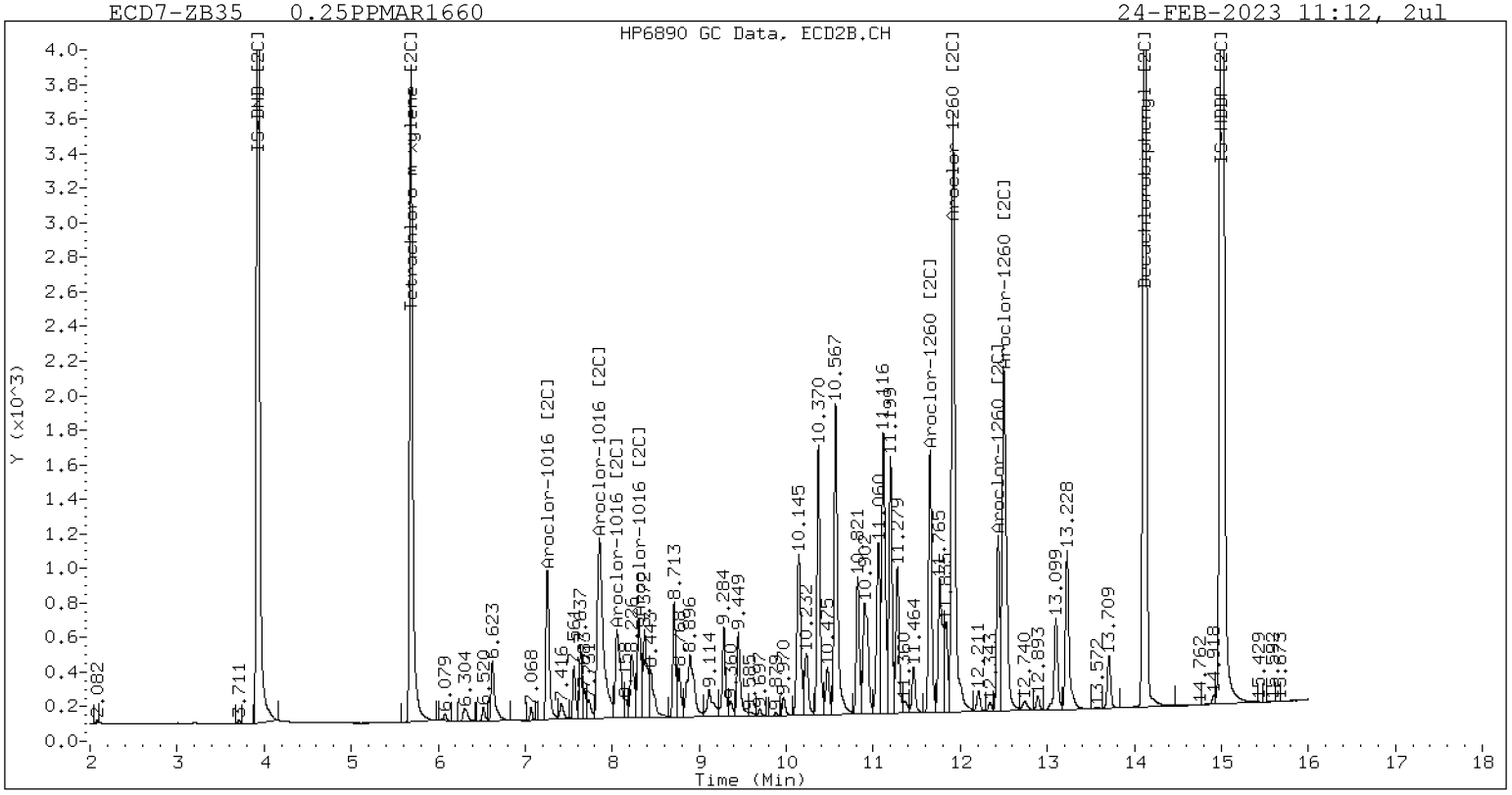
PCB Dual Column Chromatograms

ECD7-ZB5 0.25PPMAR1660 24-FEB-2023 11:12, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.25PPMAR1660 24-FEB-2023 11:12, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230224.b/02242303ECD7.D
Data file 2: /230224.b/230224.b/02242303ECD7.D
Method: \\target\share\chem4\ecd7.i\230224.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 0.02PPMAR1660
Client ID:
Injection Date: 24-FEB-2023 11:33
Report Date: 02/28/2023 09:50
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.809	0.002	29768	5.688	0.003	14932	3.1	3.3	5.7	Tetrachloro-m-xylene
13.893	0.000	45992	14.120	0.000	23950	3.4	3.1	9.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	637010	-5.5
Hexabromobiphenyl	1429847	1386953	-3.0

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	307177	-2.6
Hexabromobiphenyl	513946	511463	-0.5

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.272	0.001	5052	20.9	1	7.256	0.000	3894	21.7
Aroclor-1016	2	7.659	0.005	14714	19.9	2	7.864	0.008	6253	17.1
Aroclor-1016	3	7.795	0.005	8226	22.8	3	8.060	0.006	3076	18.7
Aroclor-1016	4	8.407	0.002	4780	20.5	4	8.309	0.002	2443	18.9
Total Col1Ave (4 peaks):					21.1	Total Col2Ave (4 peaks):				19.1 RPD = 10
Corrected Ave (3 peaks):					20.5	Corrected Ave (3 peaks):				18.2 RPD = 11
CalAmt %D:					5.3	CalAmt %D:				-4.5
Aroclor-1260	1	11.047	0.003	10147	20.3	1	11.656	0.003	6759	22.5
Aroclor-1260	2	11.364	0.003	10287	19.7	2	11.922	0.005	16592	21.6
Aroclor-1260	3	11.740	0.006	28043	20.3	3	12.438	0.002	4506	22.1
Aroclor-1260	4	12.145	0.006	13540	19.4	4	12.505	0.004	11037	21.3
Aroclor-1260	5	12.246	0.002	6182	20.6	NS	---			----
Total Col1Ave (5 peaks):					20.1	Total Col2Ave (4 peaks):				21.9 RPD = 9
Corrected Ave (4 peaks):					19.9	Corrected Ave (3 peaks):				21.7 RPD = 8
CalAmt %D:					0.4	CalAmt %D:				9.4

Total PCB Area Col1 (5.906 - 13.793) = 324832 Col1 Total PCB = 0.0 ppm*

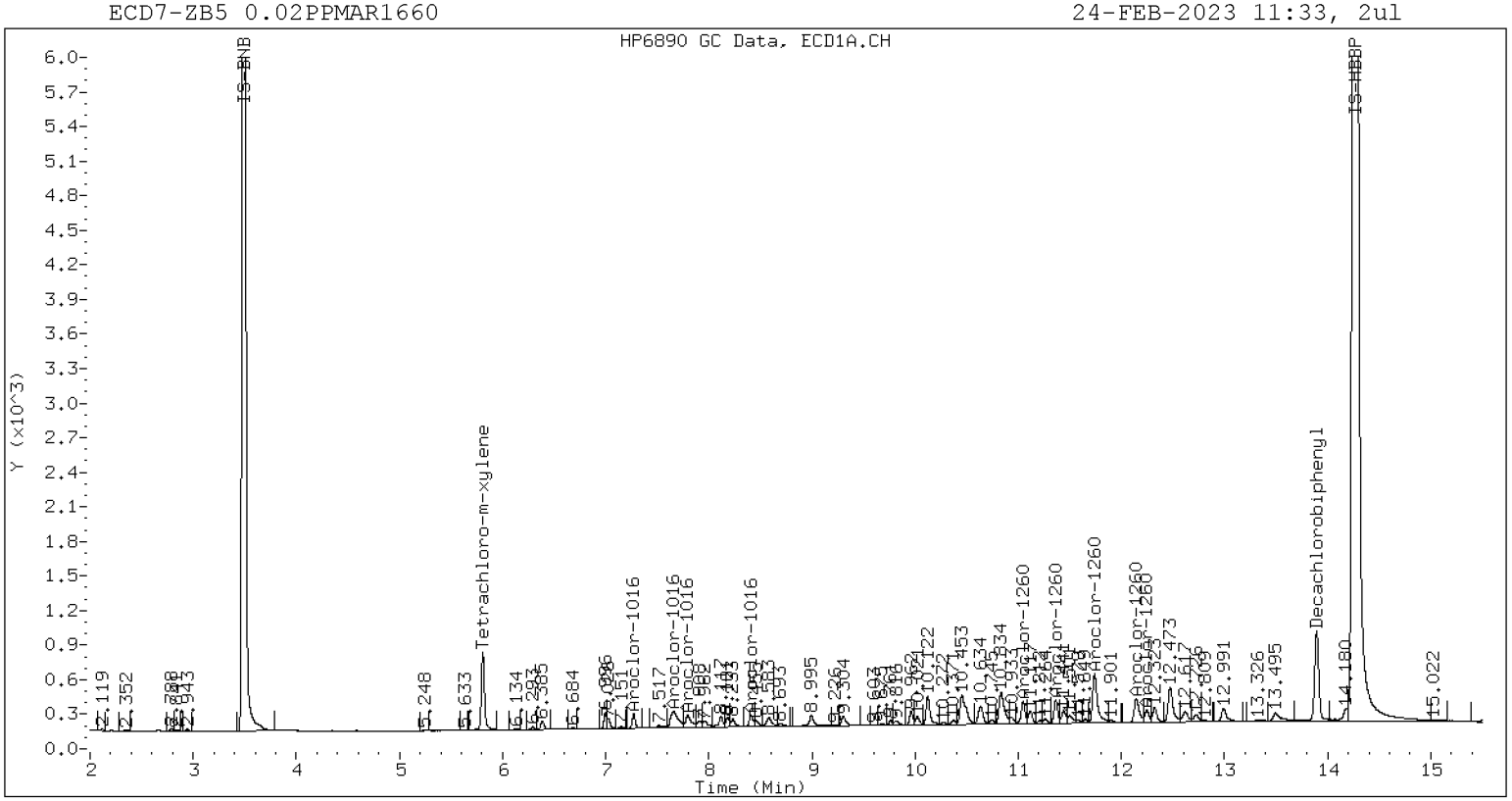
Total PCB Area Col2 (5.785 - 14.019) = 157149 Col2 Total PCB = 0.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

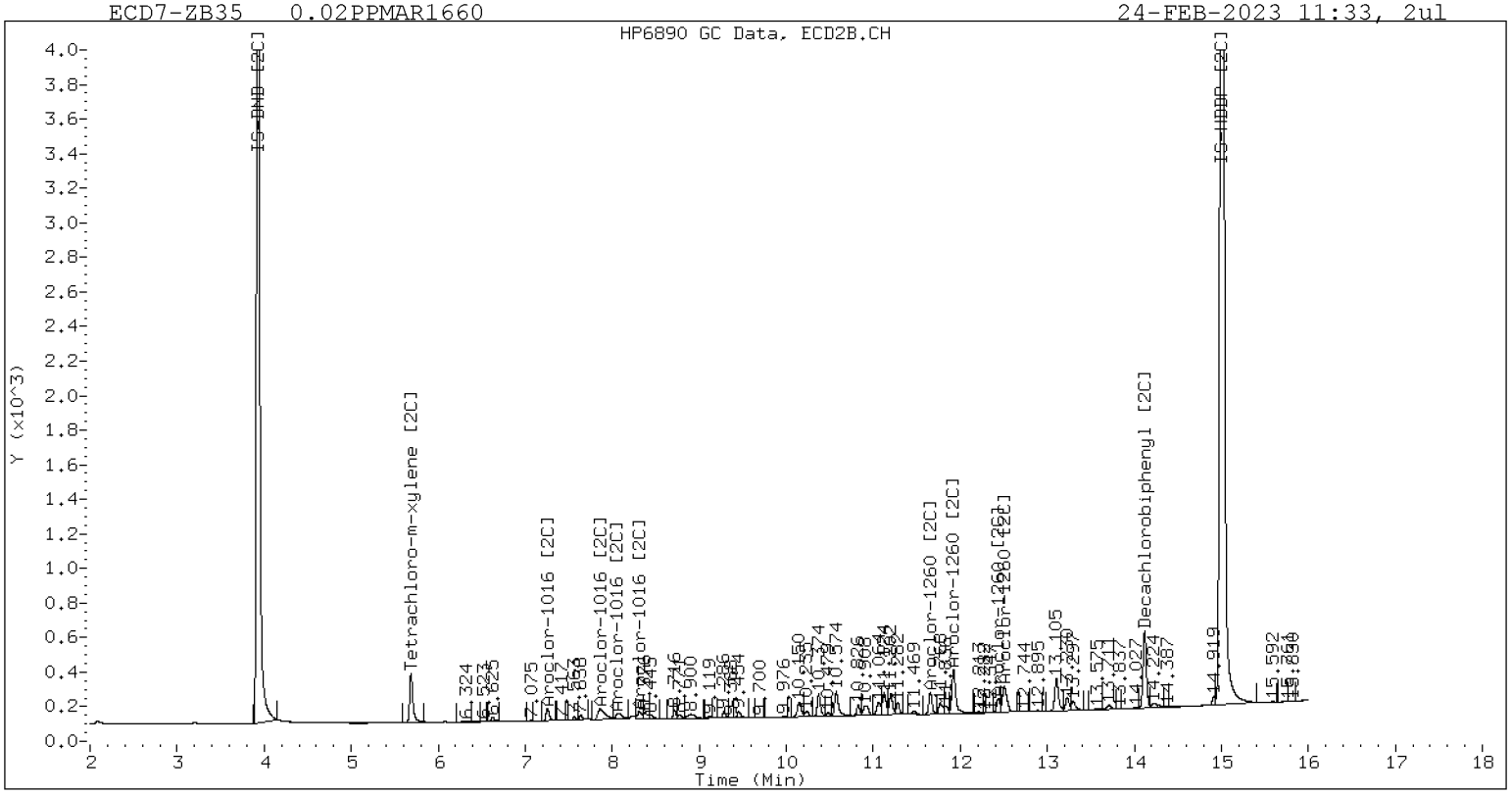
PCB Dual Column Chromatograms

ECD7-ZB5 0.02PPMAR1660 24-FEB-2023 11:33, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.02PPMAR1660 24-FEB-2023 11:33, 2ul

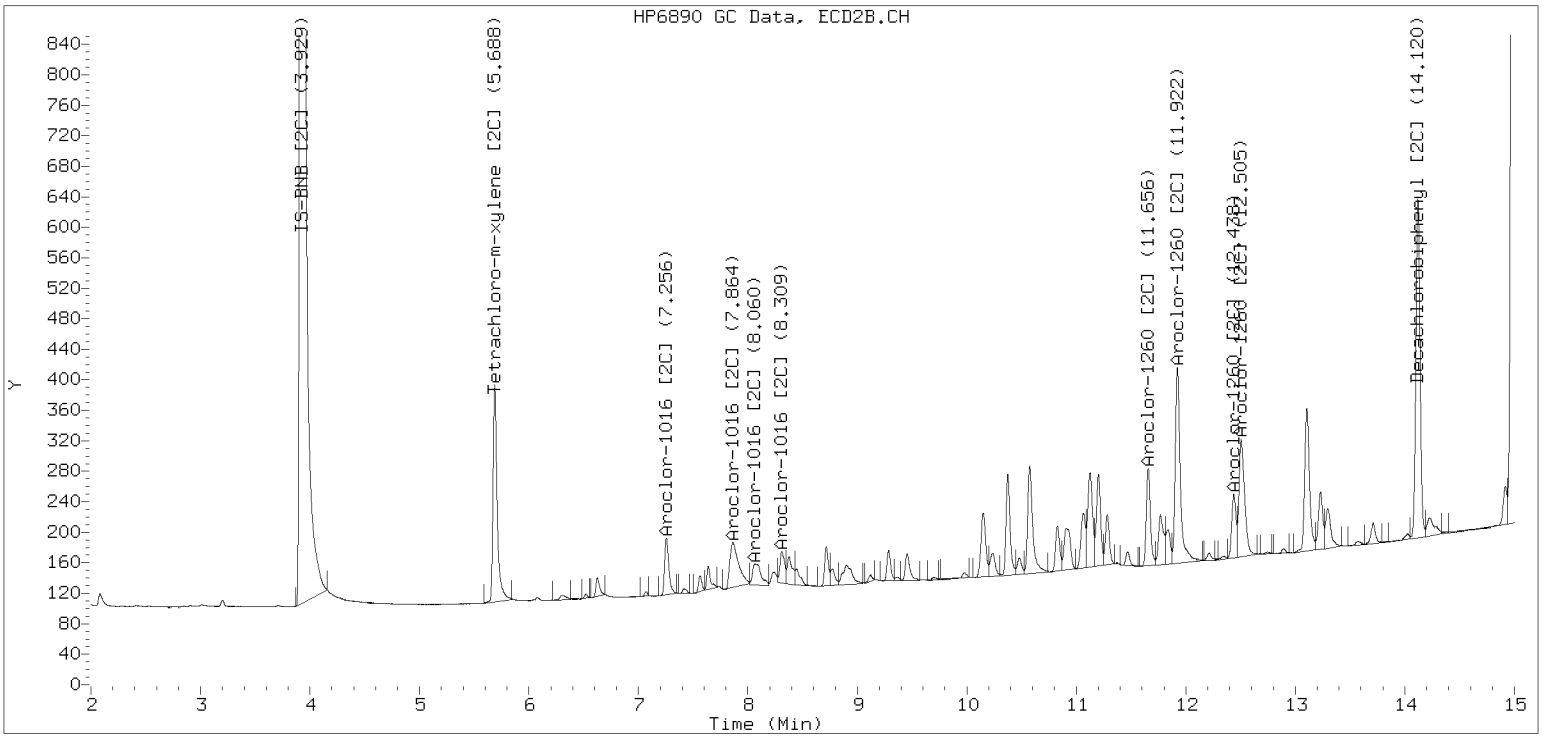


ZB-35 Manual Integration: YES

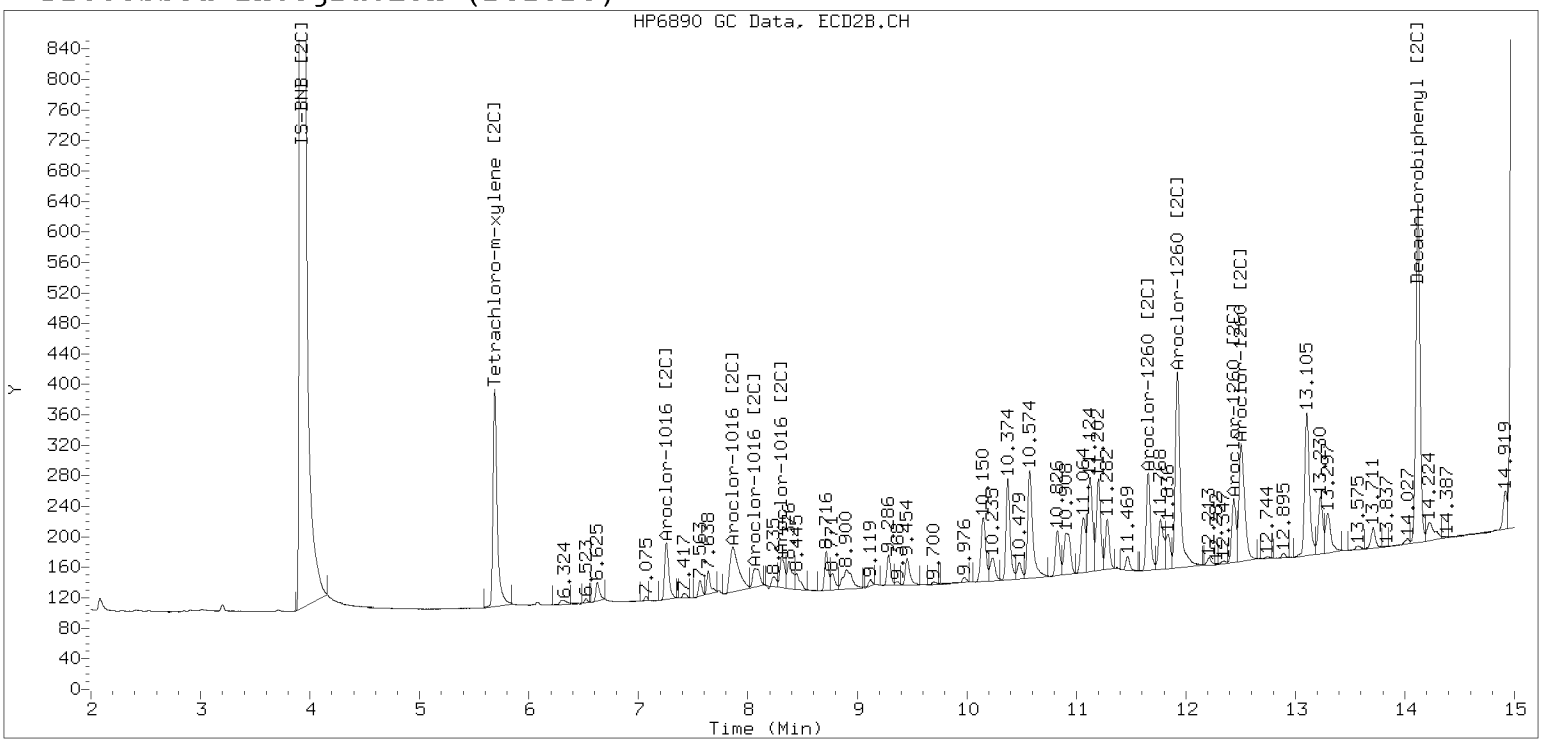
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230224.b/230224.b/02242303ECD7.D Injection Date: 24-FEB-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230224.b/02242304ECD7.D
Data file 2: /230224.b/230224.b/02242304ECD7.D
Method: \\target\share\chem4\ecd7.i\230224.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 0.05PPMAR1660
Client ID:
Injection Date: 24-FEB-2023 11:54
Report Date: 02/28/2023 09:50
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.809	0.003	78493	5.688	0.003	36772	8.3	8.1	2.2	Tetrachloro-m-xylene
13.893	-0.000	113544	14.119	-0.000	62745	8.2	7.9	3.4	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	630965	-6.4
Hexabromobiphenyl	1429847	1409464	-1.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	307599	-2.4
Hexabromobiphenyl	513946	521112	1.4

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.272	0.002	12829	53.5	1	7.256	0.000	9654	53.6
Aroclor-1016	2	7.660	0.006	36461	49.9	2	7.864	0.008	18085	49.5
Aroclor-1016	3	7.795	0.005	19865	55.7	3	8.063	0.008	9071	55.0
Aroclor-1016	4	8.408	0.003	11411	49.5	4	8.310	0.003	7309	56.5
Total Col1Ave (4 peaks):					52.2	Total Col2Ave (4 peaks):				53.7 RPD = 3
Corrected Ave (3 peaks):					51.0	Corrected Ave (3 peaks):				52.7 RPD = 3
CalAmt %D:					4.3	CalAmt %D:				7.3
Aroclor-1260	1	11.046	0.002	25727	50.7	1	11.655	0.002	15996	52.2
Aroclor-1260	2	11.363	0.002	26482	50.0	2	11.922	0.004	40487	51.8
Aroclor-1260	3	11.739	0.005	70871	50.4	3	12.437	0.002	10248	49.4
Aroclor-1260	4	12.143	0.004	34239	48.4	4	12.506	0.004	26828	50.9
Aroclor-1260	5	12.246	0.002	15109	49.6	NS	---			----
Total Col1Ave (5 peaks):					49.8	Total Col2Ave (4 peaks):				51.1 RPD = 2
Corrected Ave (4 peaks):					49.6	Corrected Ave (3 peaks):				50.7 RPD = 2
CalAmt %D:					-0.3	CalAmt %D:				2.1

Total PCB Area Col1 (5.906 - 13.793) = 758292 Col1 Total PCB = 0.1 ppm*

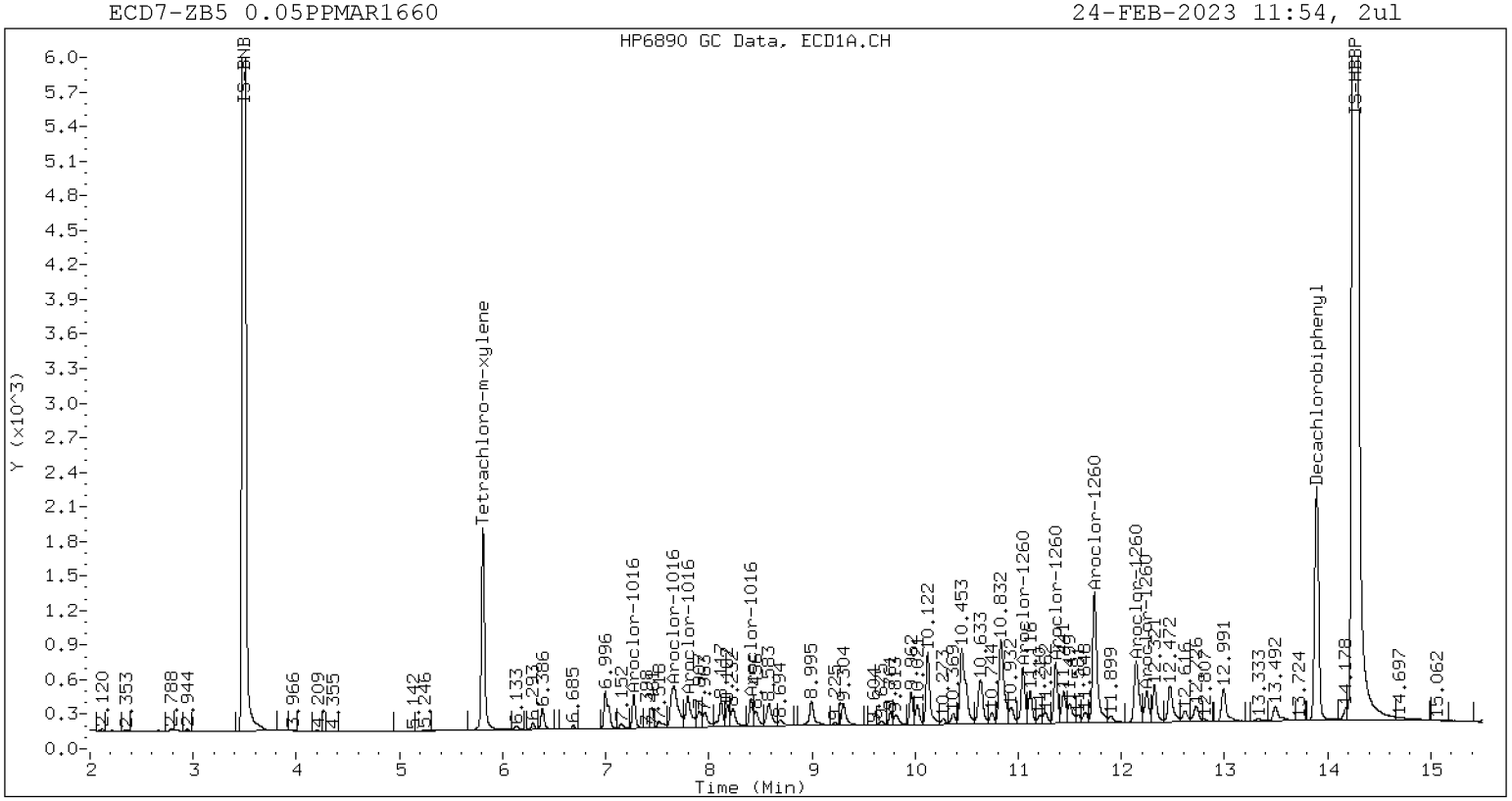
Total PCB Area Col2 (5.785 - 14.019) = 386383 Col2 Total PCB = 0.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

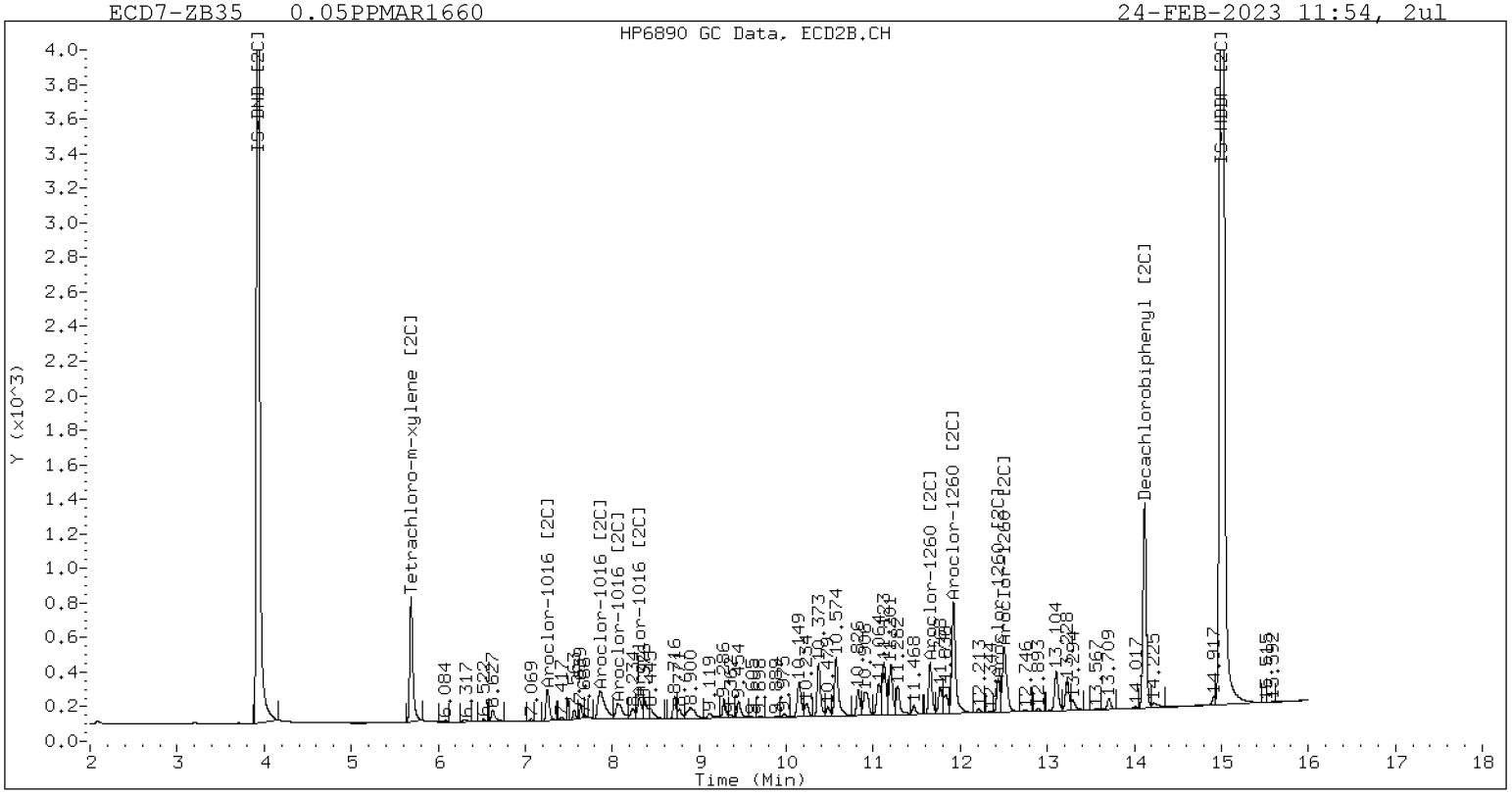
PCB Dual Column Chromatograms

ECD7-ZB5 0.05PPMAR1660 24-FEB-2023 11:54, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.05PPMAR1660 24-FEB-2023 11:54, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230224.b/02242305ECD7.D
Data file 2: /230224.b/230224.b/02242305ECD7.D
Method: \\target\share\chem4\ecd7.i\230224.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 1.0PPMAR1660
Client ID:
Injection Date: 24-FEB-2023 12:15
Report Date: 02/28/2023 09:50
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.813	0.006	1641874	5.688	0.003	709674	166.2	151.5	9.3	Tetrachloro-m-xylene
13.899	0.006	2344583	14.122	0.002	1300114	161.9	158.6	2.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	661440	-1.8
Hexabromobiphenyl	1429847	1470100	2.8

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	319272	1.3
Hexabromobiphenyl	513946	538138	4.7

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.270	-0.000	220519	877.8	1	7.254	-0.001	162833	871.2
Aroclor-1016	2	7.652	-0.002	731607	955.3	2	7.852	-0.004	373610	985.8
Aroclor-1016	3	7.789	-0.001	307629	822.8	3	8.051	-0.003	156666	915.2
Aroclor-1016	4	8.404	-0.001	229387	949.1	4	8.305	-0.002	117186	872.6
Total Col1Ave (4 peaks):					901.3	Total Col2Ave (4 peaks):				911.2
Corrected Ave (3 peaks):					883.3	Corrected Ave (3 peaks):				886.3
CalAmt %D:					-9.9	CalAmt %D:				-8.9
Aroclor-1260	1	11.044	-0.000	504641	954.2	1	11.652	-0.000	282606	893.1
Aroclor-1260	2	11.360	-0.001	524931	950.0	2	11.917	-0.000	709329	878.4
Aroclor-1260	3	11.734	-0.000	1410270	962.3	3	12.434	-0.001	215124	1003.8
Aroclor-1260	4	12.137	-0.002	720770	976.7	4	12.501	-0.001	506566	930.6
Aroclor-1260	5	12.243	-0.001	304211	957.7	NS	---			----
Total Col1Ave (5 peaks):					960.2	Total Col2Ave (4 peaks):				926.5
Corrected Ave (4 peaks):					956.0	Corrected Ave (3 peaks):				900.7
CalAmt %D:					-4.0	CalAmt %D:				-7.4

Total PCB Area Col1 (5.906 - 13.793) = 14454279 Col1 Total PCB = 1.8 ppm*

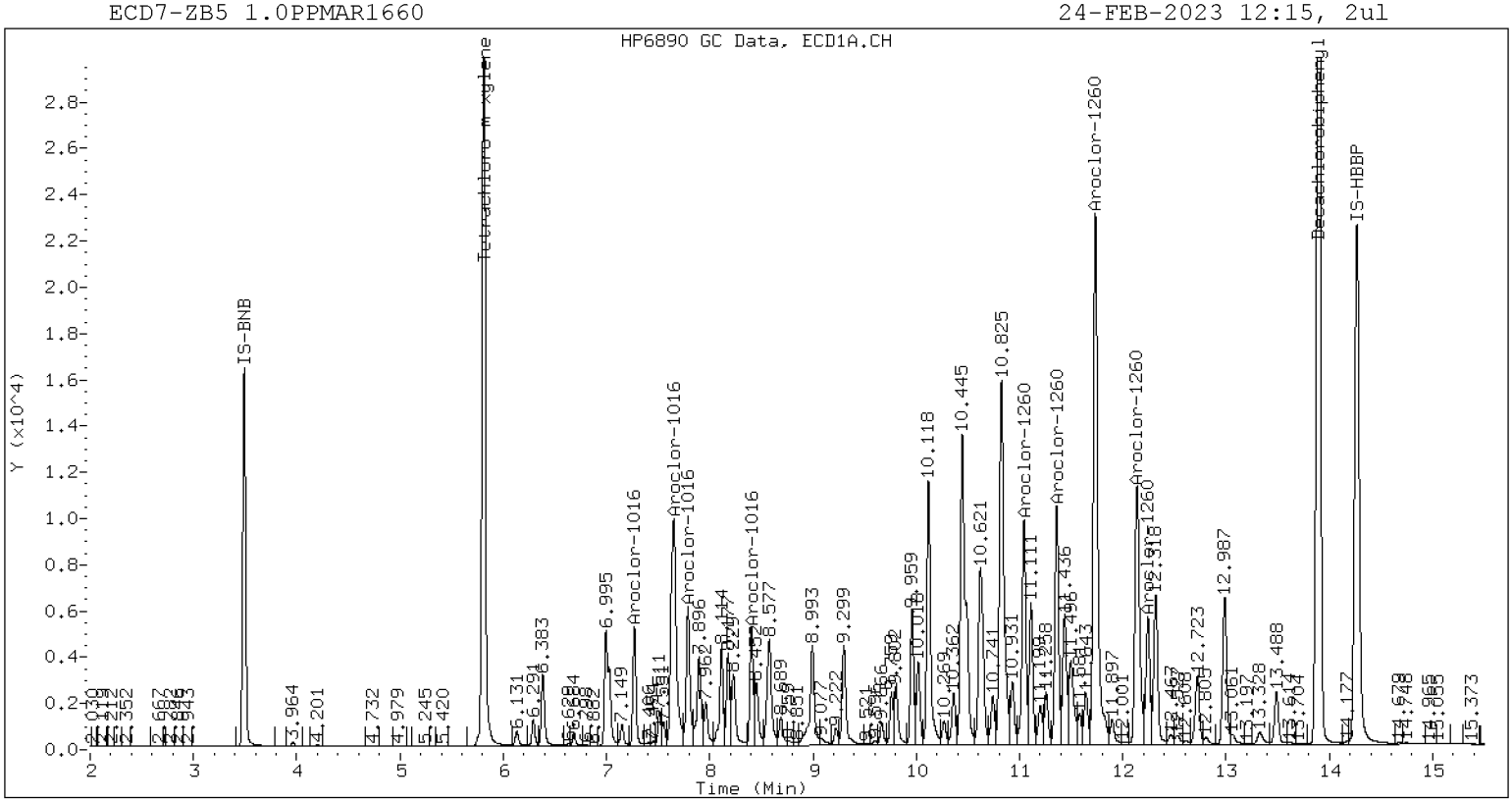
Total PCB Area Col2 (5.785 - 14.019) = 7029563 Col2 Total PCB = 1.8 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

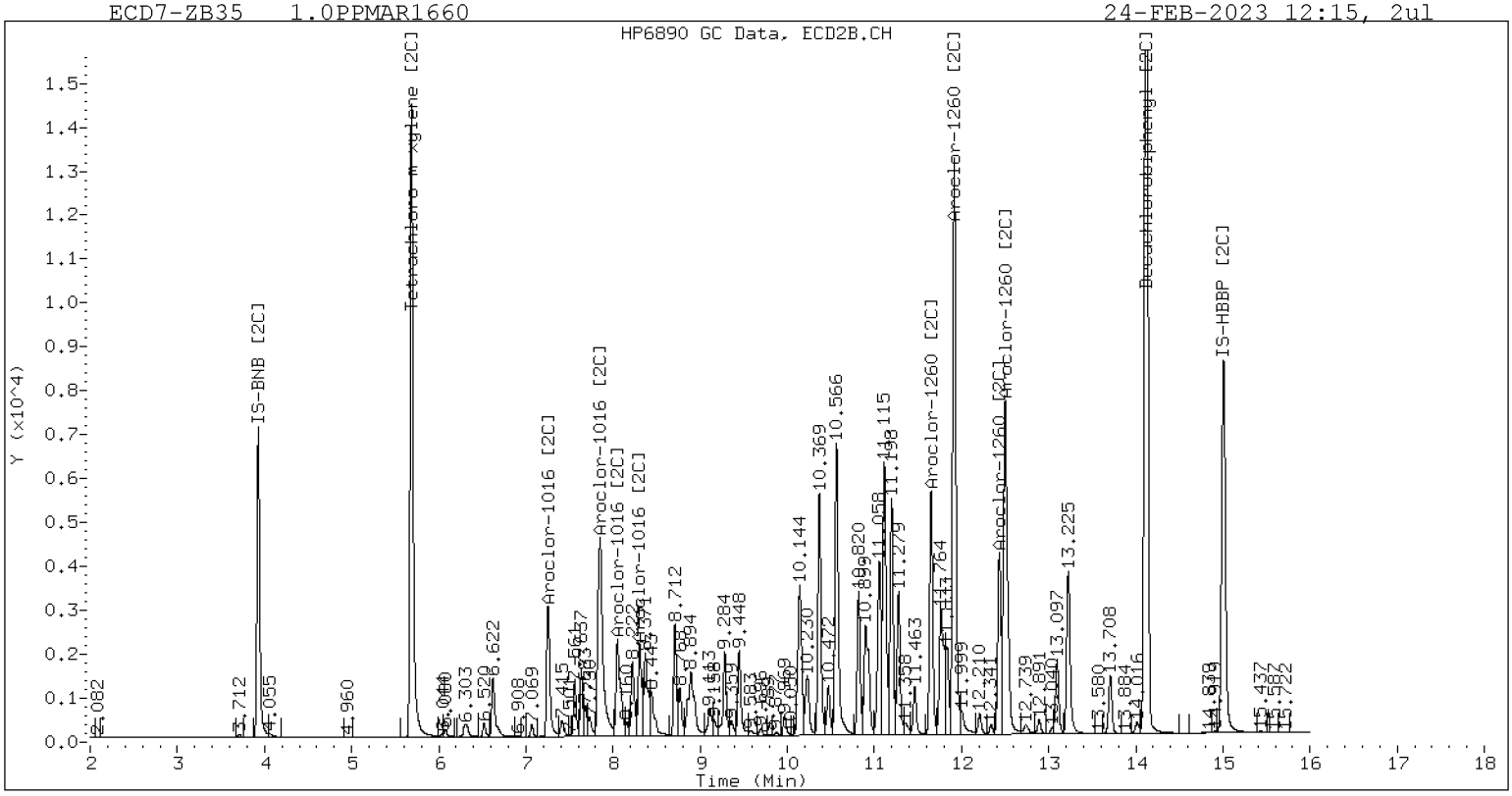
PCB Dual Column Chromatograms

ECD7-ZB5 1.0PPMAR1660 24-FEB-2023 12:15, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 1.0PPMAR1660 24-FEB-2023 12:15, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230224.b/02242306ECD7.D
Data file 2: /230224.b/230224.b/02242306ECD7.D
Method: \\target\share\chem4\ecd7.i\230224.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 0.1PPMAR1660
Client ID:
Injection Date: 24-FEB-2023 12:36
Report Date: 02/28/2023 09:50
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.809	0.002	155528	5.688	0.003	74628	15.9	16.0	0.9	Tetrachloro-m-xylene
13.892	-0.001	227253	14.119	-0.000	128496	15.8	15.8	0.5	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	655979	-2.6
Hexabromobiphenyl	1429847	1464509	2.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	317418	0.7
Hexabromobiphenyl	513946	532962	3.7

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.271	0.000	25761	103.4	1	7.255	-0.000	19315	103.9
Aroclor-1016	2	7.657	0.003	75616	99.6	2	7.863	0.007	40308	107.0
Aroclor-1016	3	7.794	0.004	39547	106.7	3	8.059	0.005	18304	107.6
Aroclor-1016	4	8.406	0.001	24260	101.2	4	8.309	0.002	14708	110.2
Total Col1Ave (4 peaks):					102.7	Total Col2Ave (4 peaks):				107.2 RPD = 4
Corrected Ave (3 peaks):					101.4	Corrected Ave (3 peaks):				106.2 RPD = 5
CalAmt %D:					2.7	CalAmt %D:				7.2
Aroclor-1260	1	11.045	0.000	52009	98.7	1	11.655	0.002	31282	99.8
Aroclor-1260	2	11.362	0.001	55116	100.1	2	11.920	0.003	80574	100.7
Aroclor-1260	3	11.738	0.004	145604	99.7	3	12.437	0.002	19566	92.2
Aroclor-1260	4	12.141	0.002	72408	98.5	4	12.503	0.001	53588	99.4
Aroclor-1260	5	12.245	0.001	30745	97.2	NS	---			----
Total Col1Ave (5 peaks):					98.8	Total Col2Ave (4 peaks):				98.0 RPD = 1
Corrected Ave (4 peaks):					98.5	Corrected Ave (3 peaks):				97.1 RPD = 1
CalAmt %D:					-1.2	CalAmt %D:				-2.0

Total PCB Area Col1 (5.906 - 13.793) = 1555762 Col1 Total PCB = 0.2 ppm*

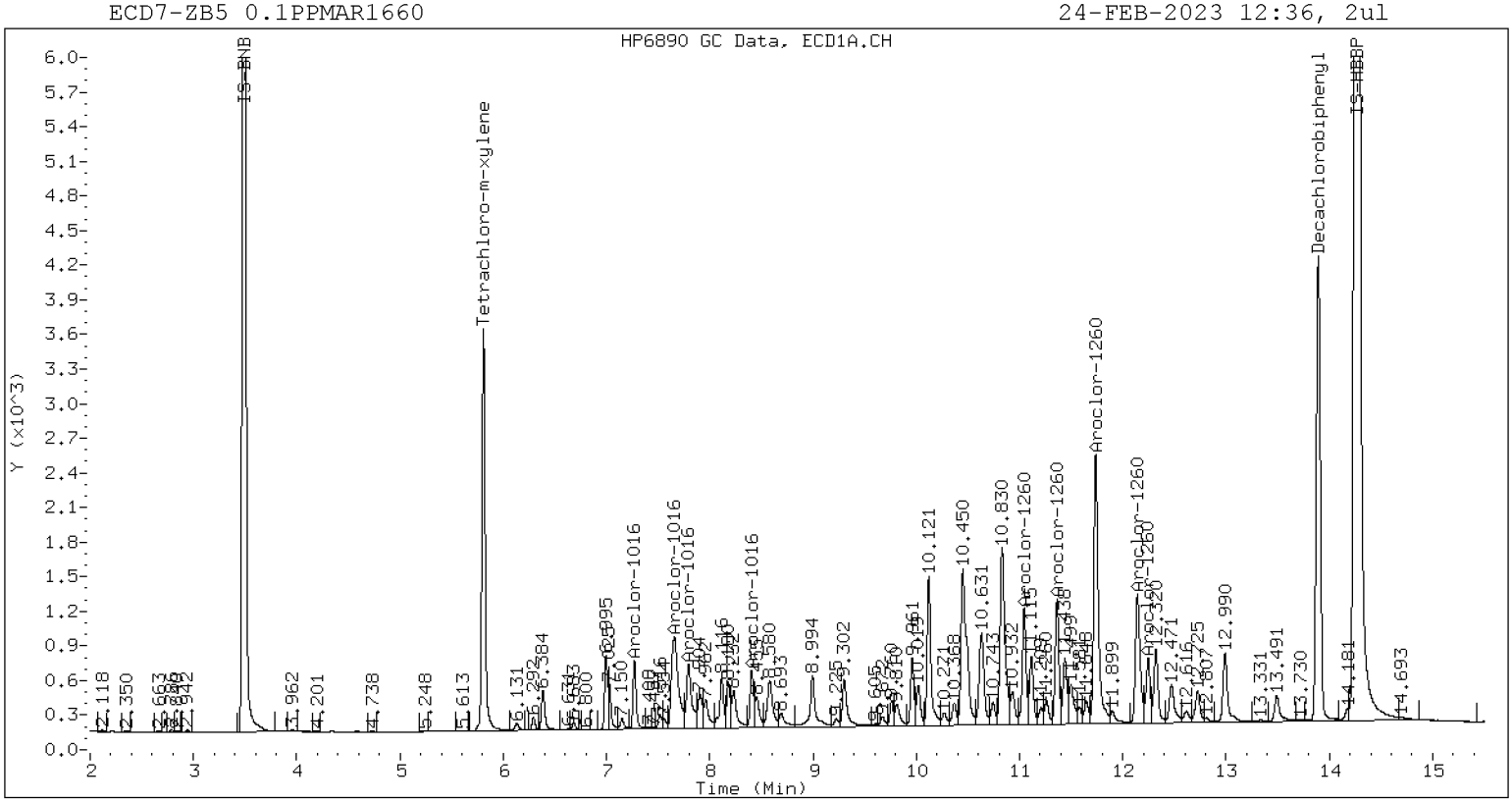
Total PCB Area Col2 (5.785 - 14.019) = 764924 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

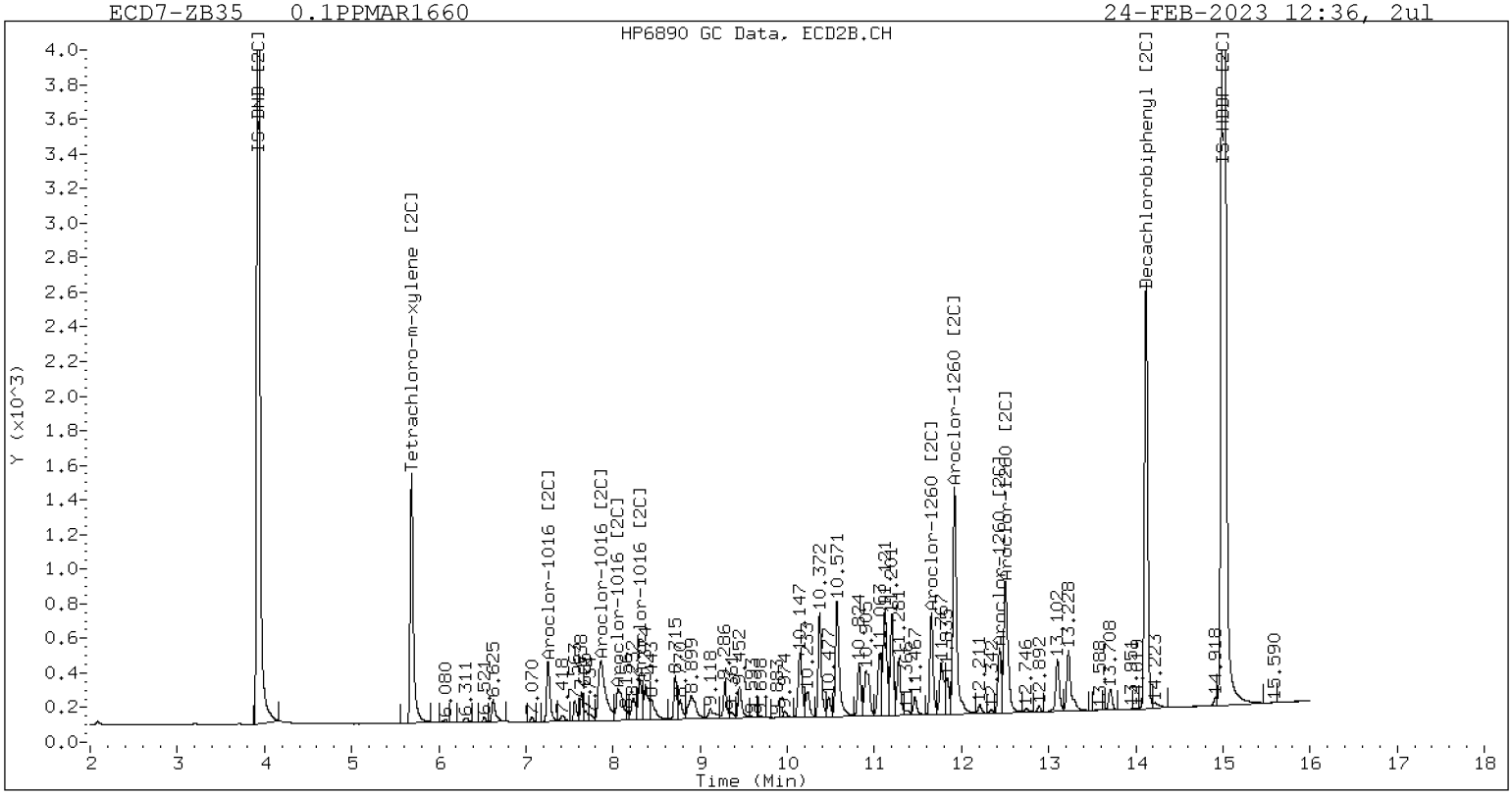
PCB Dual Column Chromatograms

ECD7-ZB5 0.1PPMAR1660 24-FEB-2023 12:36, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.1PPMAR1660 24-FEB-2023 12:36, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230224.b/02242307ECD7.D
Data file 2: /230224.b/230224.b/02242307ECD7.D
Method: \\target\share\chem4\ecd7.i\230224.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 0.5PPMAR1660
Client ID:
Injection Date: 24-FEB-2023 12:57
Report Date: 02/28/2023 09:50
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.810	0.004	724614	5.688	0.003	359257	75.2	76.7	2.0	Tetrachloro-m-xylene
13.898	0.005	1056911	14.120	0.000	650153	74.3	79.5	6.9	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	645275	-4.2
Hexabromobiphenyl	1429847	1445345	1.1

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	319170	1.2
Hexabromobiphenyl	513946	536853	4.5

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.270	0.000	115193	470.0	1	7.256	0.000	86287	461.8
Aroclor-1016	2	7.654	0.000	369991	495.2	2	7.856	0.000	192524	508.1
Aroclor-1016	3	7.790	0.000	160952	441.3	3	8.055	0.000	81039	473.6
Aroclor-1016	4	8.405	0.000	115032	487.9	4	8.307	0.000	62136	462.8
Total Col1Ave (4 peaks):					473.6	Total Col2Ave (4 peaks):				476.6 RPD = 1
Corrected Ave (3 peaks):					466.4	Corrected Ave (3 peaks):				466.1 RPD = 0
CalAmt %D:					-5.3	CalAmt %D:				-4.7
Aroclor-1260	1	11.044	0.000	247212	475.5	1	11.653	0.000	145247	460.1
Aroclor-1260	2	11.361	0.000	262877	483.9	2	11.918	0.000	379838	471.5
Aroclor-1260	3	11.734	0.000	678830	471.1	3	12.436	0.000	104092	486.9
Aroclor-1260	4	12.139	0.000	356067	490.7	4	12.502	0.000	258953	476.9
Aroclor-1260	5	12.244	0.000	150280	481.2	NS	---			----
Total Col1Ave (5 peaks):					480.5	Total Col2Ave (4 peaks):				473.8 RPD = 1
Corrected Ave (4 peaks):					477.9	Corrected Ave (3 peaks):				469.5 RPD = 2
CalAmt %D:					-3.9	CalAmt %D:				-5.2

Total PCB Area Col1 (5.906 - 13.793) = 7134169 Col1 Total PCB = 0.9 ppm*

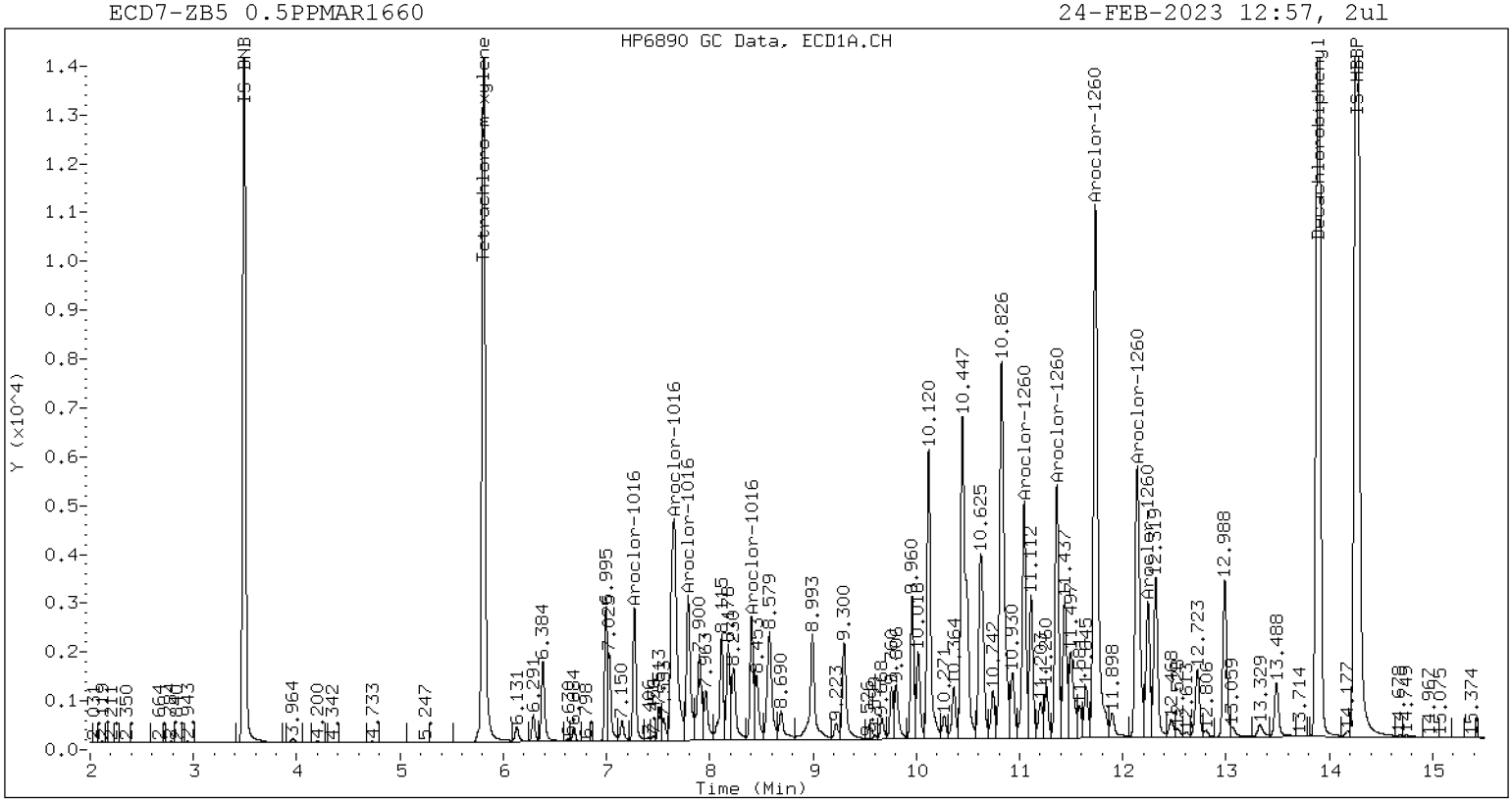
Total PCB Area Col2 (5.785 - 14.019) = 3589735 Col2 Total PCB = 0.9 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

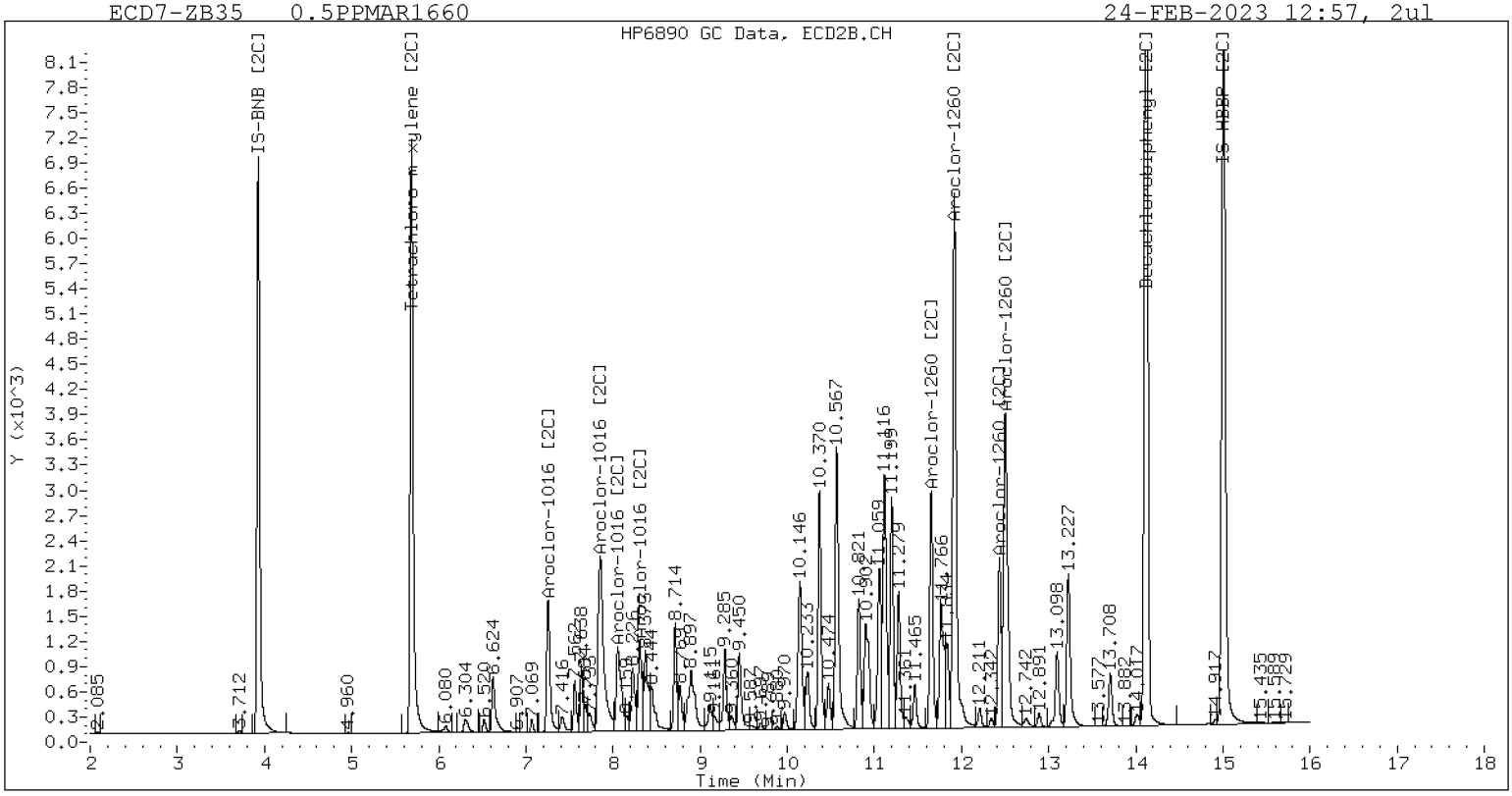
PCB Dual Column Chromatograms

ECD7-ZB5 0.5PPMAR1660 24-FEB-2023 12:57, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.5PPMAR1660 24-FEB-2023 12:57, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230224.b/02242308ECD7.D
Data file 2: /230224.b/230224.b/02242308ECD7.D
Method: \\target\share\chem4\ecd7.i\230224.b\PCB.m
Compound Sublist: AR1242.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 0.25PPMAR1242
Client ID:
Injection Date: 24-FEB-2023 13:18
Report Date: 02/28/2023 09:50
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.809	0.003	434187	5.688	0.003	214306	46.0	46.5	1.1	Tetrachloro-m-xylene
13.894	0.000	515867	14.119	-0.001	312943	35.6	38.5	7.6	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	632576	-6.1
Hexabromobiphenyl	1429847	1469715	2.8

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	314129	-0.4
Hexabromobiphenyl	513946	534294	4.0

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1242	1	7.271	0.000	49009	250.0	1	7.255	0.000	36487	250.0
Aroclor-1242	2	7.656	0.000	148833	250.0	2	7.858	0.000	76699	250.0
Aroclor-1242	3	8.405	0.000	46308	250.0	3	9.167	0.000	23866	250.0
Aroclor-1242	4	8.579	0.000	68453	250.0	4	9.597	0.000	29080	250.0

Total Col1Ave (4 peaks): 250.0 Total Col2Ave (4 peaks): 250.0 RPD = 0

Corrected Ave (3 peaks): 250.0 Corrected Ave (3 peaks): 250.0 RPD = 0

Total PCB Area Col1 (5.906 - 13.793) = 1221467 Col1 Total PCB = 0.2 ppm*

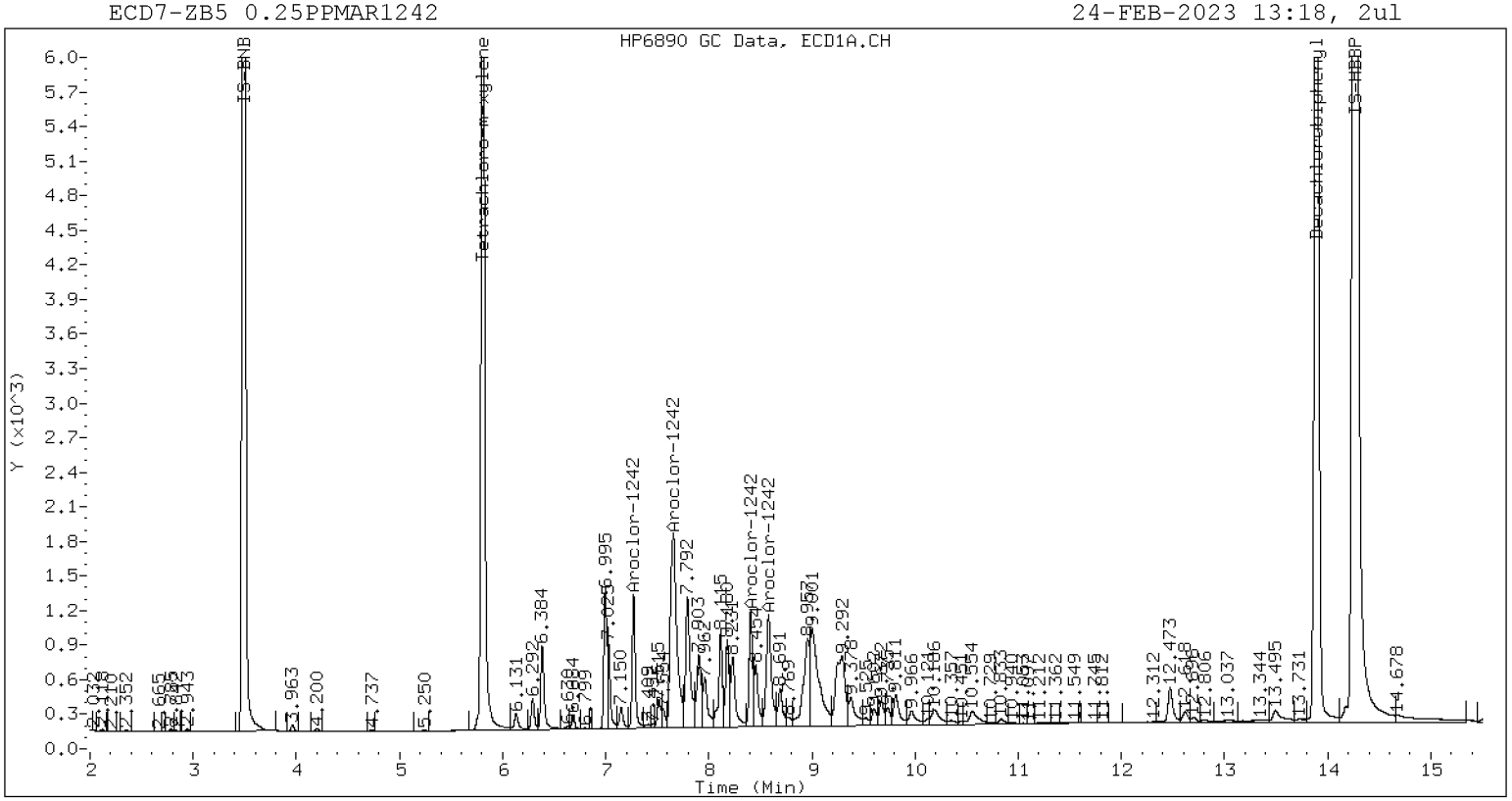
Total PCB Area Col2 (5.785 - 14.019) = 572067 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

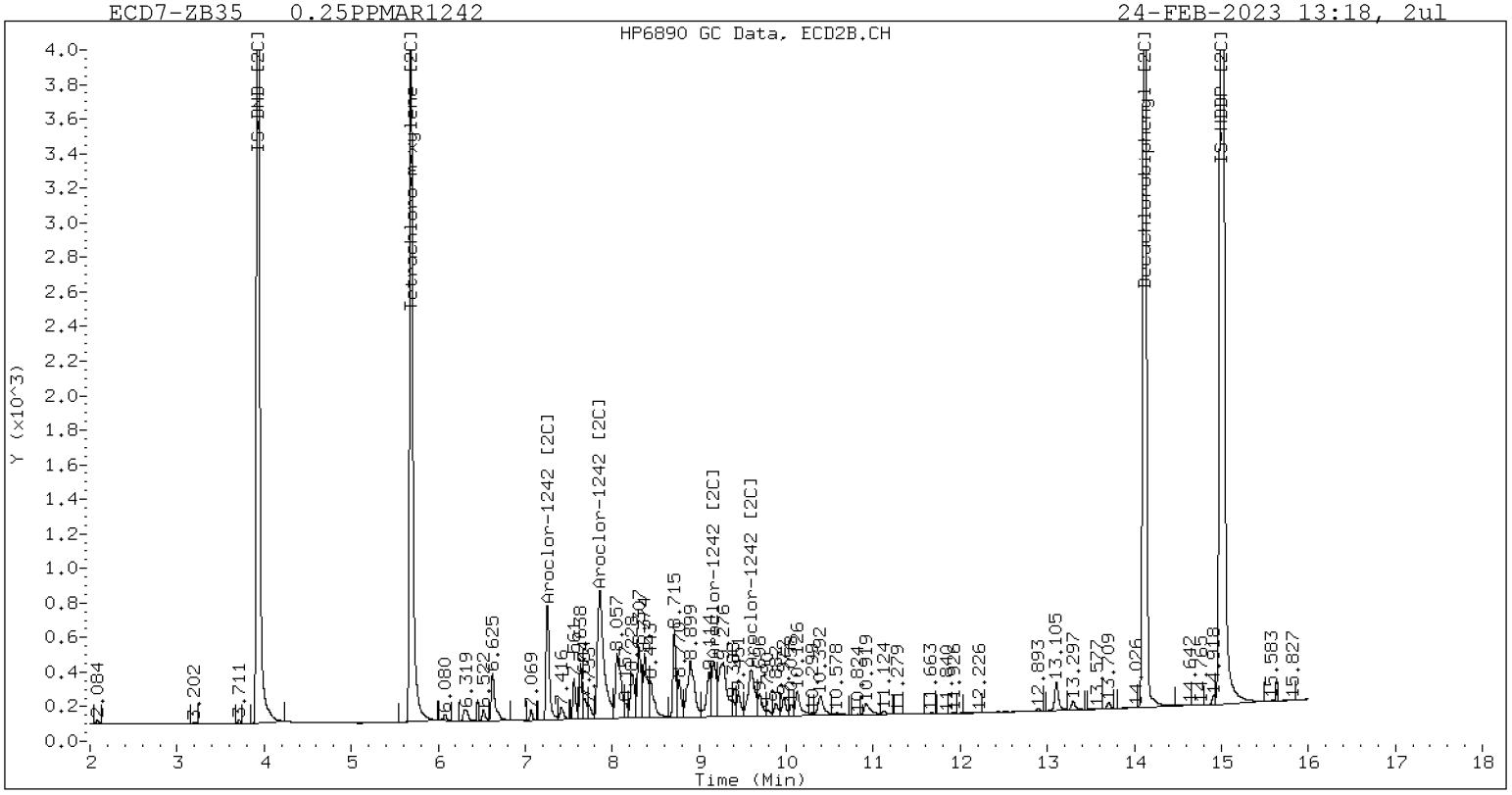
PCB Dual Column Chromatograms

ECD7-ZB5 0.25PPMAR1242 24-FEB-2023 13:18, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.25PPMAR1242 24-FEB-2023 13:18, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230224.b/02242309ECD7.D
Data file 2: /230224.b/230224.b/02242309ECD7.D
Method: \\target\share\chem4\ecd7.i\230224.b\PCB.m
Compound Sublist: AR1248.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 0.25PPMAR1248
Client ID:
Injection Date: 24-FEB-2023 13:39
Report Date: 02/28/2023 09:51
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.809	0.003	349513	5.688	0.003	176615	36.6	37.9	3.4	Tetrachloro-m-xylene
13.894	0.001	523008	14.121	0.001	322054	36.4	39.3	7.5	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	639911	-5.0
Hexabromobiphenyl	1429847	1458696	2.0

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	317938	0.9
Hexabromobiphenyl	513946	538760	4.8

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1248	1	8.405	0.000	78055	250.0	1	8.308	0.000	37951	250.0
Aroclor-1248	2	8.580	0.000	99216	250.0	2	8.714	0.000	39239	250.0
Aroclor-1248	3	8.999	0.000	187178	250.0	3	9.166	0.000	45157	250.0
Aroclor-1248	4	9.295	0.000	95291	250.0	4	9.590	0.000	54216	250.0

Total Col1Ave (4 peaks): 250.0 Total Col2Ave (4 peaks): 250.0 RPD = 0

Corrected Ave (3 peaks): 250.0 Corrected Ave (3 peaks): 250.0 RPD = 0

Total PCB Area Col1 (5.906 - 13.793) = 1565180 Col1 Total PCB = 0.2 ppm*

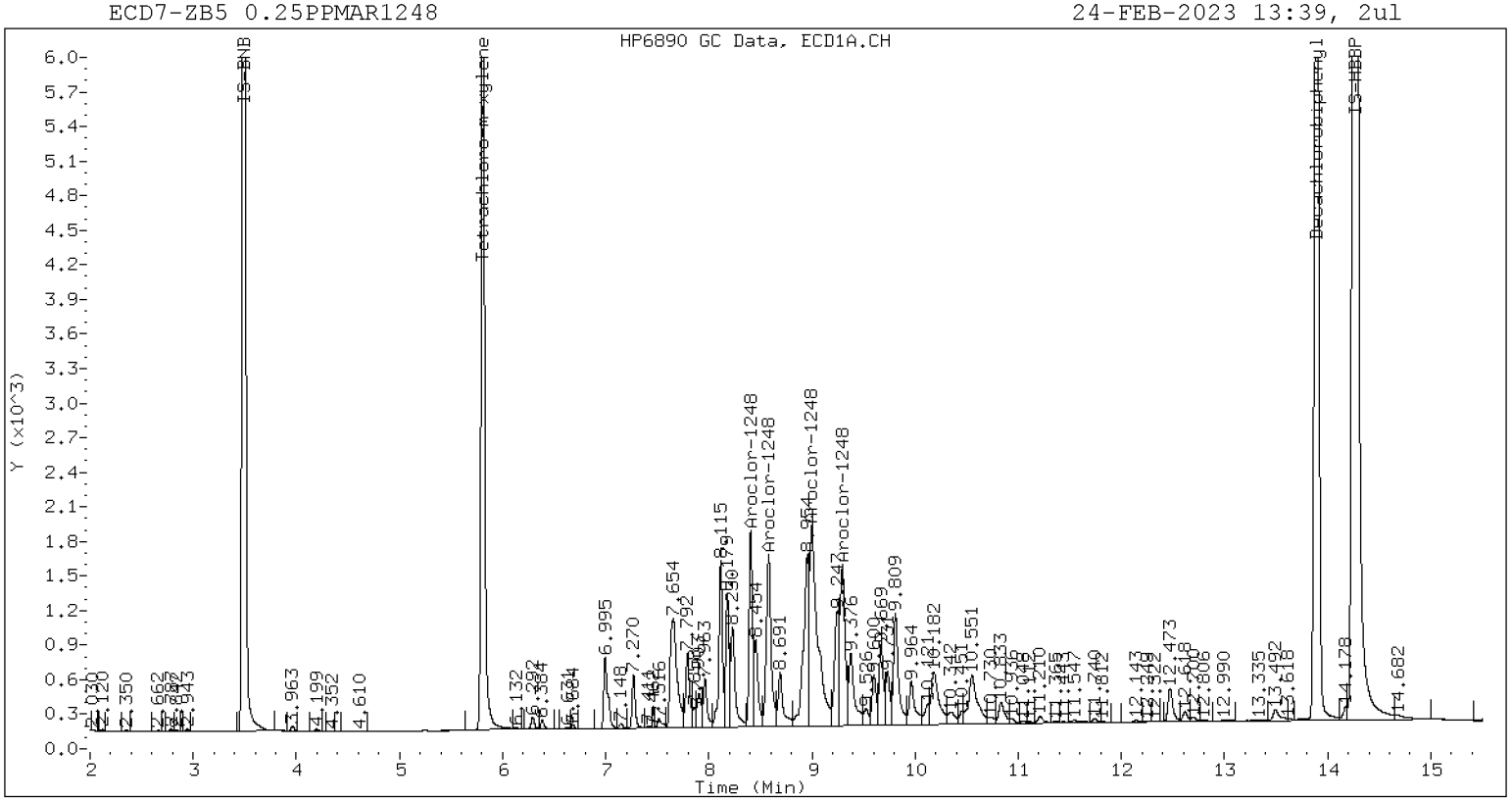
Total PCB Area Col2 (5.785 - 14.019) = 754991 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

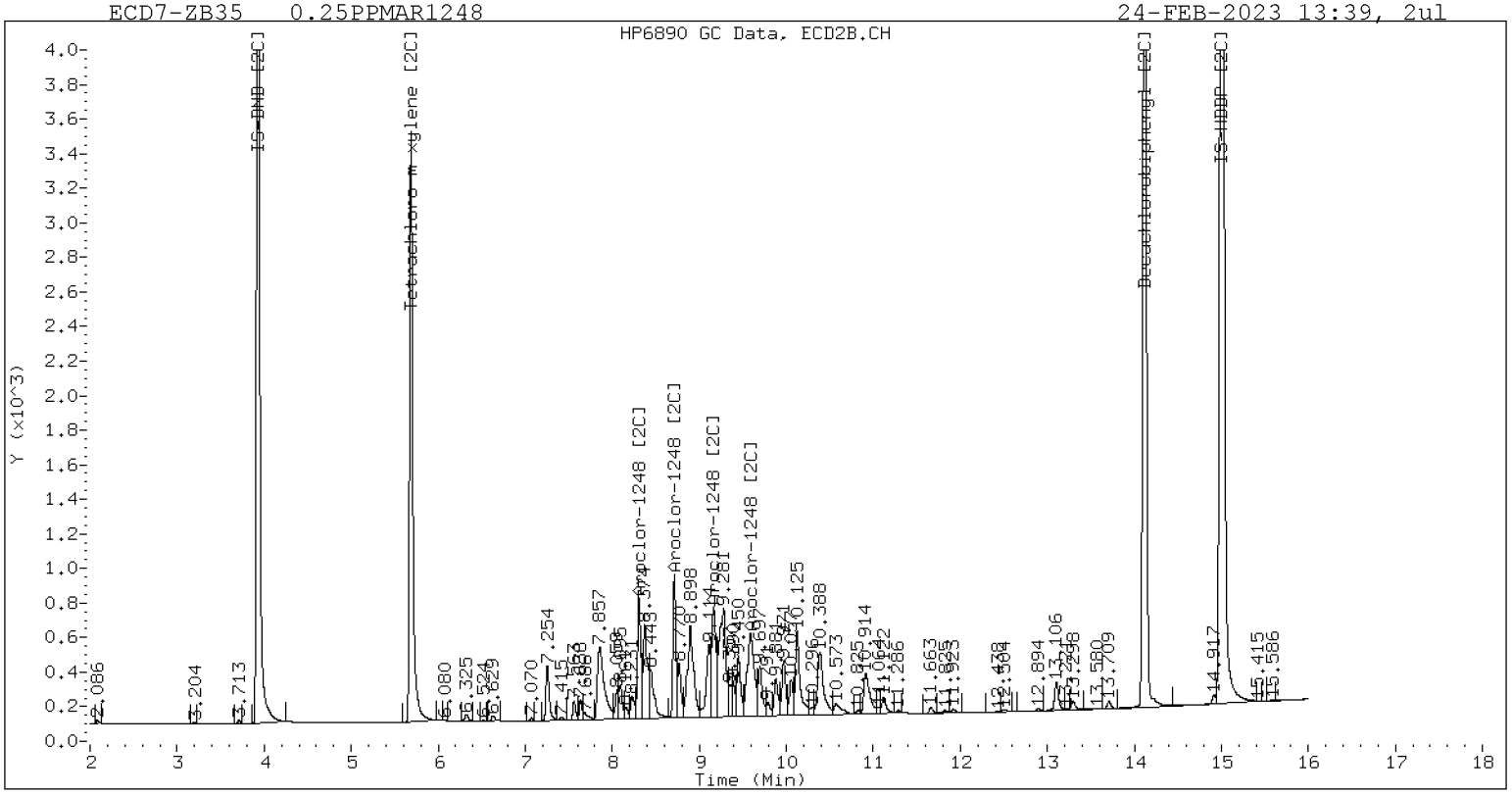
PCB Dual Column Chromatograms

ECD7-ZB5 0.25PPMAR1248 24-FEB-2023 13:39, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.25PPMAR1248 24-FEB-2023 13:39, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230224.b/02242310ECD7.D
Data file 2: /230224.b/230224.b/02242310ECD7.D
Method: \\target\share\chem4\ecd7.i\230224.b\PCB.m
Compound Sublist: AR1254.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 0.25PPMAR1254
Client ID:
Injection Date: 24-FEB-2023 14:00
Report Date: 02/28/2023 09:51
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.808	0.002	352587	5.687	0.002	177502	37.3	38.6	3.4	Tetrachloro-m-xylene
13.895	0.002	532500	14.119	0.000	325903	37.0	40.2	8.2	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	633407	-6.0
Hexabromobiphenyl	1429847	1460265	2.1

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	313673	-0.5
Hexabromobiphenyl	513946	532442	3.6

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1254	1	9.299	0.000	159011	250.0	1	9.449	0.000	59603	250.0
Aroclor-1254	2	9.377	0.000	71516	250.0	2	9.970	0.000	47949	250.0
Aroclor-1254	3	9.668	0.000	102230	250.0	3	10.124	0.000	103745	250.0
Aroclor-1254	4	9.807	0.000	198777	250.0	4	10.373	0.000	101135	250.0
Aroclor-1254	5	10.176	0.000	124586	250.0	5	10.569	0.000	61577	250.0

Total Col1Ave (5 peaks): 250.0 Total Col2Ave (5 peaks): 250.0 RPD = 0

Corrected Ave (4 peaks): 250.0 Corrected Ave (4 peaks): 250.0 RPD = 0

Total PCB Area Col1 (5.906 - 13.793) = 2179224 Col1 Total PCB = 0.3 ppm*

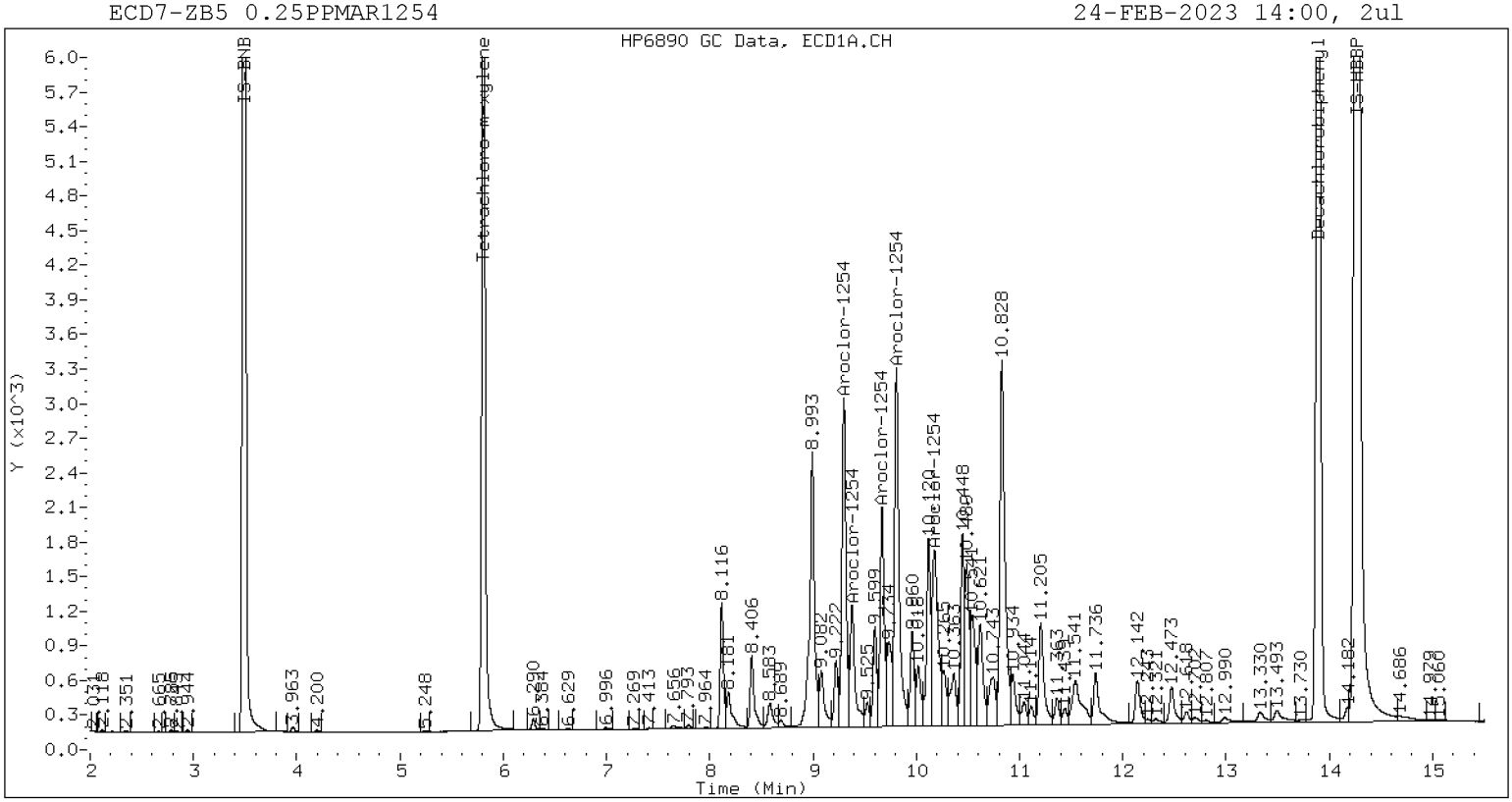
Total PCB Area Col2 (5.785 - 14.019) = 1022156 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

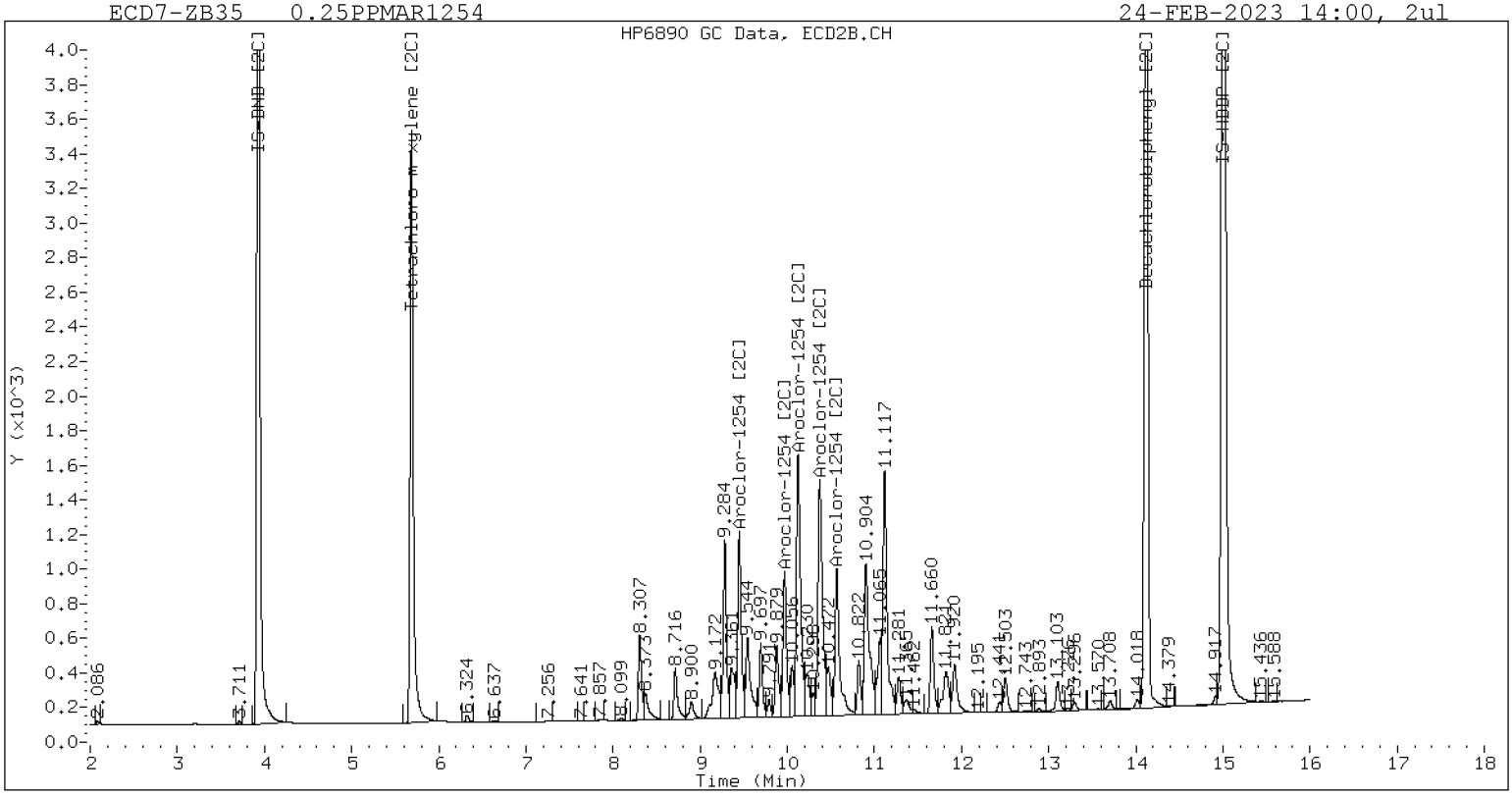
PCB Dual Column Chromatograms

ECD7-ZB5 0.25PPMAR1254 24-FEB-2023 14:00, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.25PPMAR1254 24-FEB-2023 14:00, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230224.b/02242311ECD7.D
Data file 2: /230224.b/230224.b/02242311ECD7.D
Method: \\target\share\chem4\ecd7.i\230224.b\PCB.m
Compound Sublist: AR2162.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 0.25PPMAR2162
Client ID:
Injection Date: 24-FEB-2023 14:21
Report Date: 02/28/2023 09:51
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.807	0.001	362236	5.686	0.000	177349	38.4	39.2	2.1	Tetrachloro-m-xylene
13.894	0.001	523254	14.119	-0.000	321034	36.0	39.2	8.3	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	632433	-6.1
Hexabromobiphenyl	1429847	1474039	3.1

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	308453	-2.2
Hexabromobiphenyl	513946	538177	4.7

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1221	1	4.731	0.000	14160	250.0	1	4.956	0.000	7300	250.0
Aroclor-1221	2	6.132	0.000	25324	250.0	2	6.296	0.000	13816	250.0
Aroclor-1221	3	6.382	0.000	58795	250.0	3	6.622	0.000	22491	250.0
Total Col1Ave (3 peaks):					250.0	Total Col2Ave (3 peaks):				250.0 RPD = 0
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1262	1	10.829	0.000	113046	250.0	1	11.200	0.000	114880	250.0
Aroclor-1262	2	12.244	0.000	183948	250.0	2	11.652	0.000	97844	250.0
Aroclor-1262	3	12.319	0.000	197749	250.0	3	12.434	0.000	111015	250.0
Aroclor-1262	4	12.987	0.000	180727	250.0	4	12.502	0.000	173913	250.0
Total Col1Ave (4 peaks):					250.0	Total Col2Ave (4 peaks):				250.0 RPD = 0
Corrected Ave (3 peaks):					250.0	Corrected Ave (3 peaks):				250.0 RPD = 0

Total PCB Area Col1 (5.906 - 13.793) = 3105316 Col1 Total PCB = 0.4 ppm*

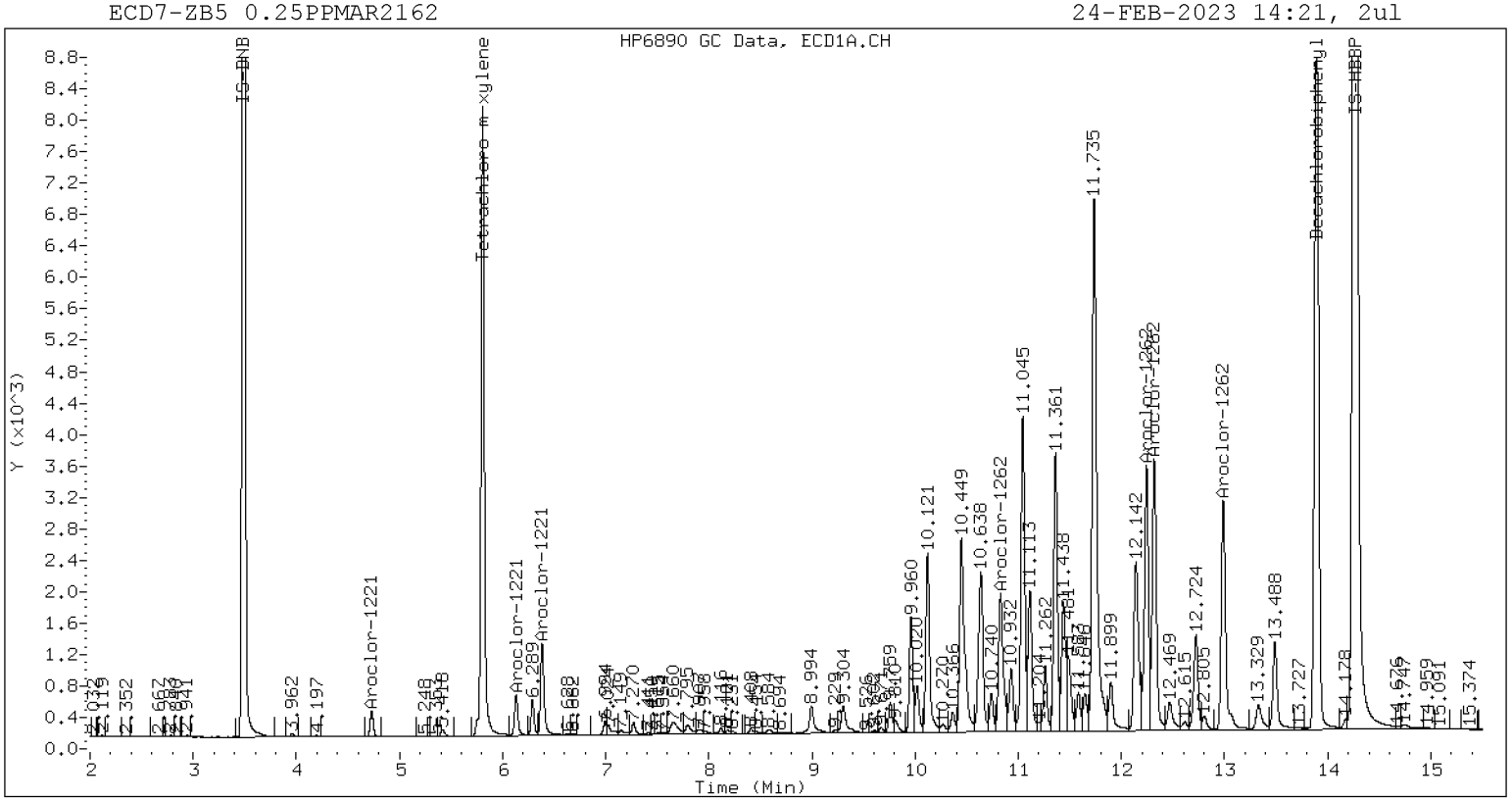
Total PCB Area Col2 (5.785 - 14.019) = 1573107 Col2 Total PCB = 0.4 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

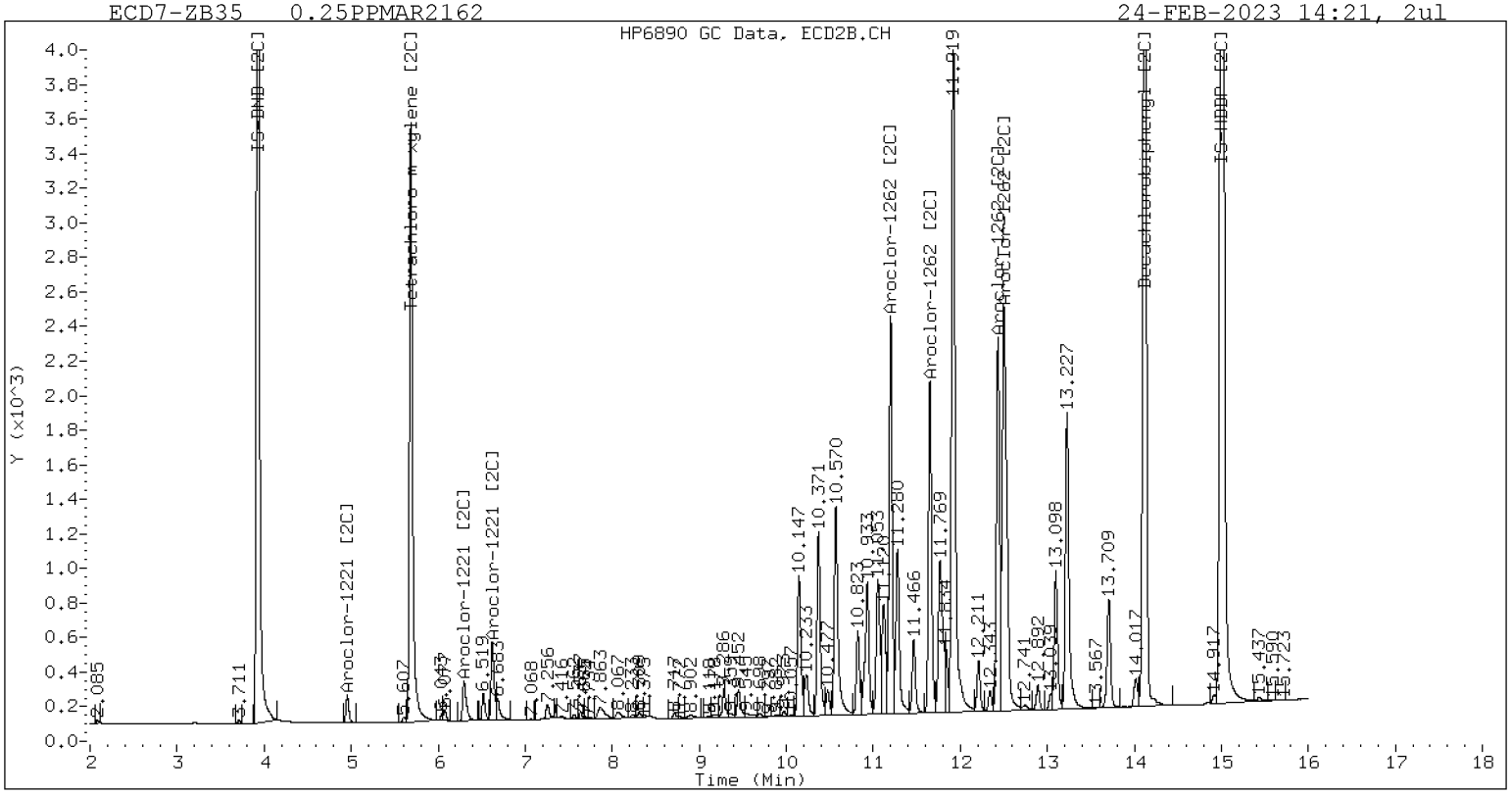
PCB Dual Column Chromatograms

ECD7-ZB5 0.25PPMAR2162 24-FEB-2023 14:21, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.25PPMAR2162 24-FEB-2023 14:21, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230224.b/02242312ECD7.D
Data file 2: /230224.b/230224.b/02242312ECD7.D
Method: \\target\share\chem4\ecd7.i\230224.b\PCB.m
Compound Sublist: AR3268.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 0.25PPMAR3268
Client ID:
Injection Date: 24-FEB-2023 14:42
Report Date: 02/28/2023 09:51
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.806	0.000	366416	5.685	0.000	179450	38.0	38.9	2.4	Tetrachloro-m-xylene
13.893	0.000	778191	14.119	0.000	477889	53.0	57.5	8.3	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	645602	-4.2
Hexabromobiphenyl	1429847	1492154	4.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	314042	-0.4
Hexabromobiphenyl	513946	545458	6.1

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1232	1	4.730	0.000	8647	250.0	1	4.956	0.000	4017	250.0
Aroclor-1232	2	6.131	0.000	17148	250.0	2	7.254	0.000	19962	250.0
Aroclor-1232	3	7.656	0.000	77627	250.0	3	7.861	0.000	39913	250.0
Aroclor-1232	4	8.581	0.000	32993	250.0	4	8.715	0.000	11487	250.0
Total Col1Ave (4 peaks):					250.0	Total Col2Ave (4 peaks):				250.0 RPD = 0
Corrected Ave (3 peaks):					250.0	Corrected Ave (3 peaks):				250.0 RPD = 0
Aroclor-1268	1	12.247	0.000	477974	250.0	1	12.432	0.000	274595	250.0
Aroclor-1268	2	12.317	0.000	473326	250.0	2	12.500	0.000	295194	250.0
Aroclor-1268	3	12.699	0.000	405011	250.0	3	12.892	0.000	252048	250.0
Aroclor-1268	4	13.490	0.000	1333528	250.0	4	13.709	0.000	805579	250.0
Total Col1Ave (4 peaks):					250.0	Total Col2Ave (4 peaks):				250.0 RPD = 0
Corrected Ave (3 peaks):					250.0	Corrected Ave (3 peaks):				250.0 RPD = 0

Total PCB Area Col1 (5.906 - 13.793) = 3998414 Col1 Total PCB = 0.5 ppm*

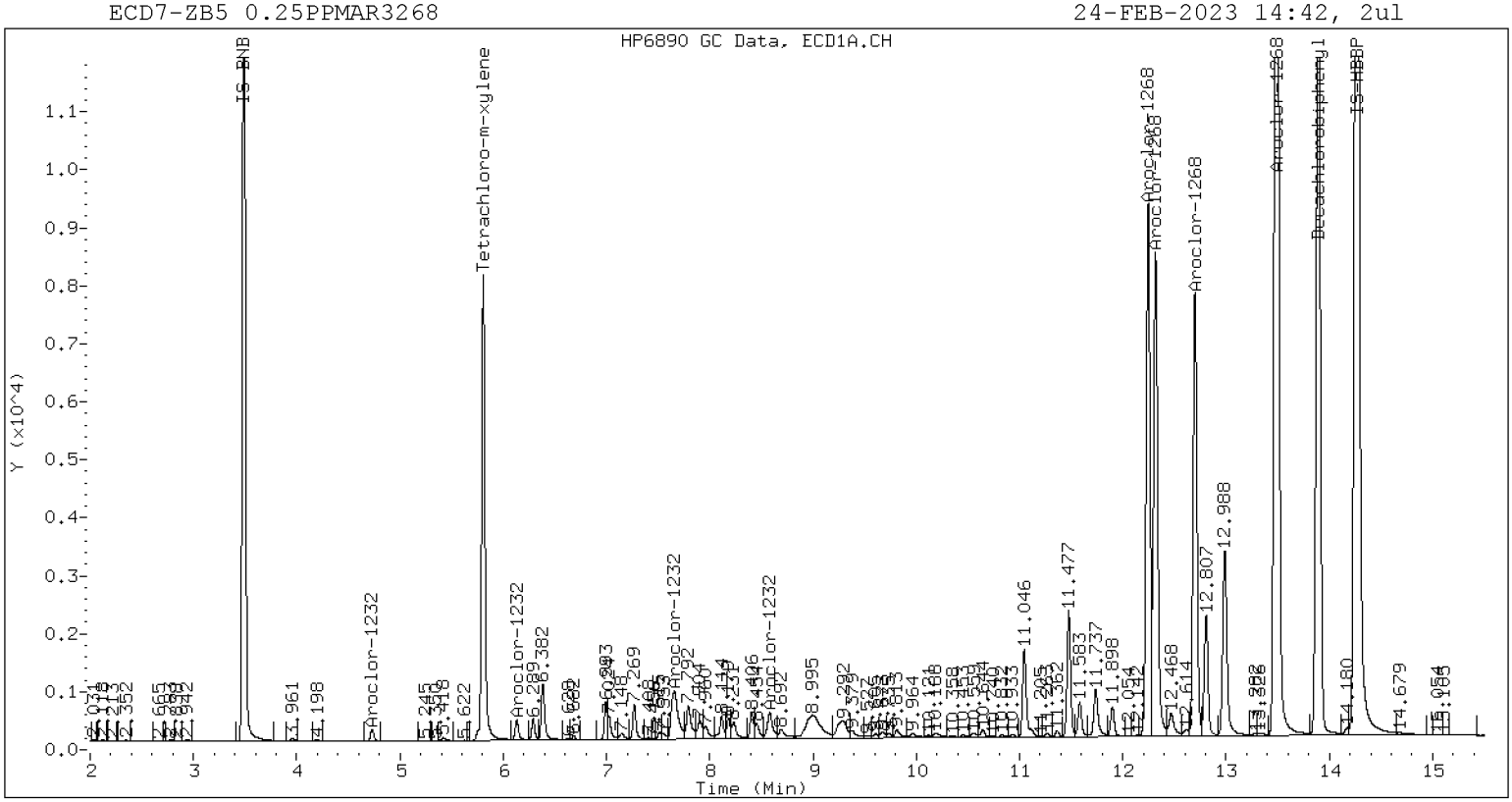
Total PCB Area Col2 (5.785 - 14.019) = 2300029 Col2 Total PCB = 0.6 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

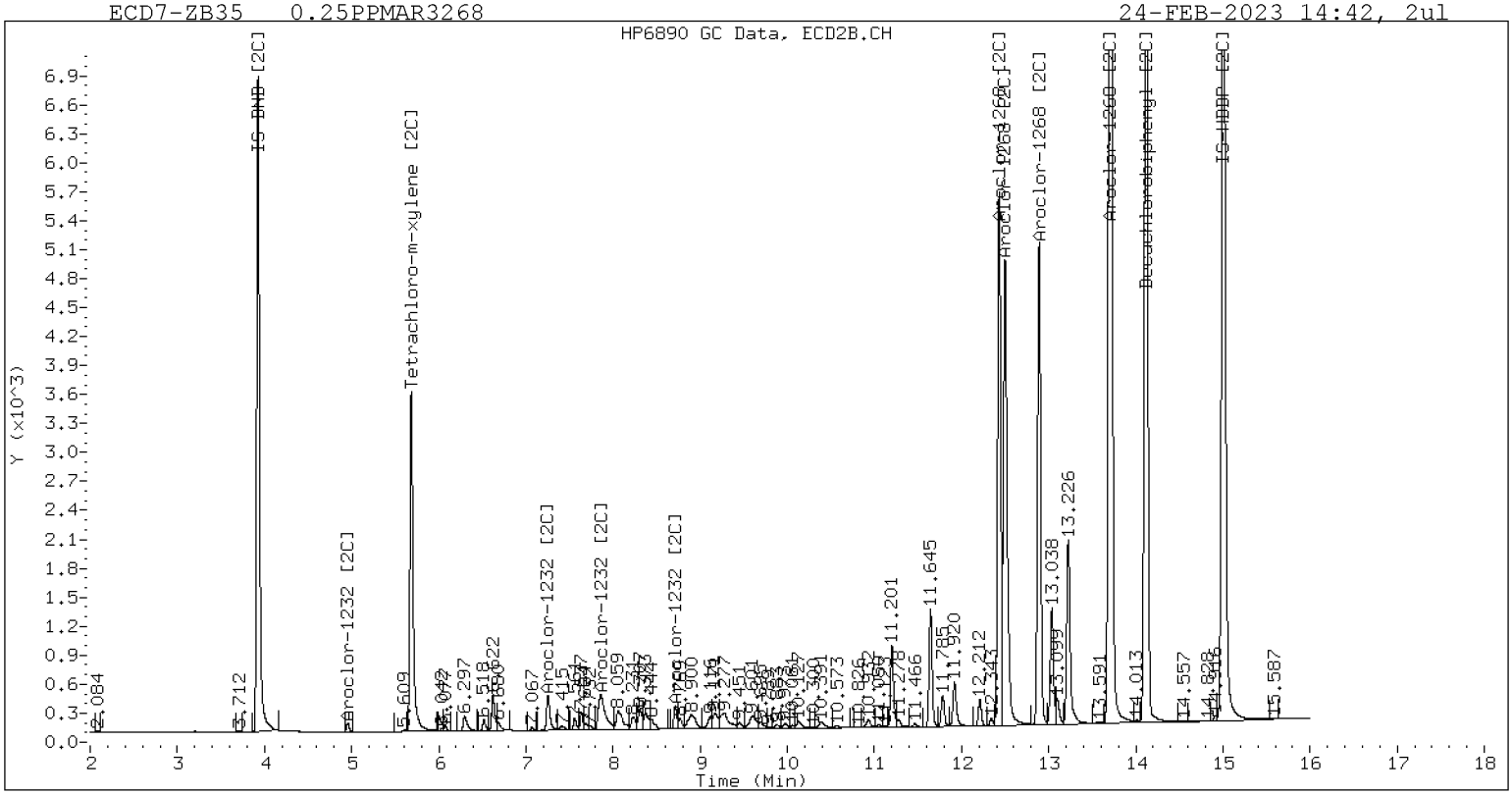
PCB Dual Column Chromatograms

ECD7-ZB5 0.25PPMAR3268 24-FEB-2023 14:42, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.25PPMAR3268 24-FEB-2023 14:42, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230224.b/02242313ECD7.D
Data file 2: /230224.b/230224.b/02242313ECD7.D
Method: \\target\share\chem4\ecd7.i\230224.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660SCV
Client ID:
Injection Date: 24-FEB-2023 15:03
Report Date: 02/28/2023 09:51
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.807	0.001	337070	5.686	0.001	165848	34.9	35.8	2.3	Tetrachloro-m-xylene
13.895	0.002	515407	14.119	-0.000	316730	34.3	37.3	8.4	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	645975	-4.1
Hexabromobiphenyl	1429847	1524245	6.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	316115	0.3
Hexabromobiphenyl	513946	556950	8.4

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.269	-0.002	59491	242.5	1	7.254	-0.002	44576	240.9
Aroclor-1016	2	7.655	0.001	181090	242.1	2	7.857	0.002	95386	254.2
Aroclor-1016	3	7.790	0.000	88470	242.3	3	8.056	0.002	42160	248.8
Aroclor-1016	4	8.404	-0.001	57980	245.6	4	8.307	0.000	32197	242.1
Total Col1Ave (4 peaks):					243.1	Total Col2Ave (4 peaks):				246.5 RPD = 1
Corrected Ave (3 peaks):					242.3	Corrected Ave (3 peaks):				243.9 RPD = 1
Aroclor-1221	1	4.731	0.000	464	8.0	1	---			0.0
Aroclor-1221	2	6.130	-0.002	9233	89.2	2	6.300	0.004	5379	95.0
Aroclor-1221	3	6.382	-0.001	42570	177.2	3	6.623	0.001	20952	227.2
Total Col1Ave (3 peaks):					91.5	Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	4.731	0.001	464	13.4	1	---			0.0
Aroclor-1232	2	6.130	-0.001	9233	134.5	2	7.254	-0.000	44576	554.6
Aroclor-1232	3	7.655	-0.001	181090	582.9	3	7.857	-0.003	95386	593.5
Aroclor-1232	4	8.580	-0.001	79916	605.2	4	8.713	-0.002	29795	644.2
Total Col1Ave (4 peaks):					334.0	Total Col2Ave (3 peaks):				597.4 RPD = 57*
Corrected Ave (3 peaks):					243.6	Corrected Ave: < 3 Peaks				
Aroclor-1242	1	7.269	-0.002	59491	297.2	1	7.254	-0.002	44576	303.5
Aroclor-1242	2	7.655	-0.001	181090	297.9	2	7.857	-0.000	95386	309.0
Aroclor-1242	3	8.404	-0.001	57980	306.5	3	9.115	-0.052	18754	195.2
Aroclor-1242	4	8.580	0.000	79916	285.8	4	9.697	0.100	1355	11.6
Total Col1Ave (4 peaks):					296.8	Total Col2Ave (4 peaks):				204.8 RPD = 37
Corrected Ave (3 peaks):					293.6	Corrected Ave (3 peaks):				170.1 RPD = 53*
Aroclor-1248	1	8.404	-0.001	57980	184.0	1	8.307	-0.001	32197	213.3
Aroclor-1248	2	8.580	-0.001	79916	199.5	2	8.713	-0.001	29795	190.9
Aroclor-1248	3	8.993	-0.006	71805	95.0	3	9.115	-0.050	18754	104.4
Aroclor-1248	4	9.300	0.006	47348	123.1	4	---			0.0
Total Col1Ave (4 peaks):					150.4	Total Col2Ave (3 peaks):				169.6 RPD = 12
Corrected Ave (3 peaks):					134.0	Corrected Ave: < 3 Peaks				
Aroclor-1254	1	9.300	0.002	47348	73.0	1	9.451	0.001	22438	93.4
Aroclor-1254	2	---			0.0	2	9.972	0.001	2694	13.9
Aroclor-1254	3	9.670	0.002	5461	13.1	3	10.147	0.024	52914	126.5
Aroclor-1254	4	9.807	-0.000	18944	23.4	4	10.370	-0.003	70430	172.8
Aroclor-1254	5	10.121	-0.056	154170	303.3	5	10.568	-0.000	98525	396.9
Total Col1Ave (4 peaks):					103.2	Total Col2Ave (5 peaks):				160.7 RPD = 44*
Corrected Ave (3 peaks):					36.5	Corrected Ave (4 peaks):				101.7 RPD = 94*
Aroclor-1260	1	11.044	0.000	149195	272.1	1	11.653	0.000	82210	251.0
Aroclor-1260	2	11.361	-0.000	153832	268.5	2	11.919	0.001	222226	265.9
Aroclor-1260	3	11.736	0.002	396660	261.0	3	12.435	-0.000	59148	266.7
Aroclor-1260	4	12.140	0.001	190448	248.9	4	12.504	0.002	147180	261.2
Aroclor-1260	5	12.244	-0.000	91385	277.5	NS	---			----
Total Col1Ave (5 peaks):					265.6	Total Col2Ave (4 peaks):				261.2 RPD = 2
Corrected Ave (4 peaks):					262.6	Corrected Ave (3 peaks):				259.4 RPD = 1
Aroclor-1262	1	10.827	-0.002	220238	471.0	1	11.199	-0.001	84479	177.6
Aroclor-1262	2	12.244	0.000	91385	120.1	2	11.653	0.002	82210	203.0
Aroclor-1262	3	12.320	0.001	113066	138.2	3	12.435	0.002	59148	128.7
Aroclor-1262	4	12.988	0.001	102156	136.7	4	12.504	0.002	147180	204.4
Total Col1Ave (4 peaks):					216.5	Total Col2Ave (4 peaks):				178.4 RPD = 19
Corrected Ave (3 peaks):					131.7	Corrected Ave (3 peaks):				169.8 RPD = 25
Aroclor-1268	1	12.244	-0.003	91385	46.8	1	12.435	0.003	59148	52.7
Aroclor-1268	2	12.320	0.003	113066	58.5	2	12.504	0.004	147180	122.1
Aroclor-1268	3	12.726	0.027	46633	28.2	3	12.893	0.001	2874	2.8
Aroclor-1268	4	13.489	-0.000	25567	4.7	4	13.709	-0.000	13041	4.0
Total Col1Ave (4 peaks):					34.5	Total Col2Ave (4 peaks):				45.4 RPD = 27
Corrected Ave (3 peaks):					26.6	Corrected Ave (3 peaks):				19.8 RPD = 29

Total PCB Area Col1 (5.906 - 13.793) = 3743076 Col1 Total PCB = 0.5 ppm*

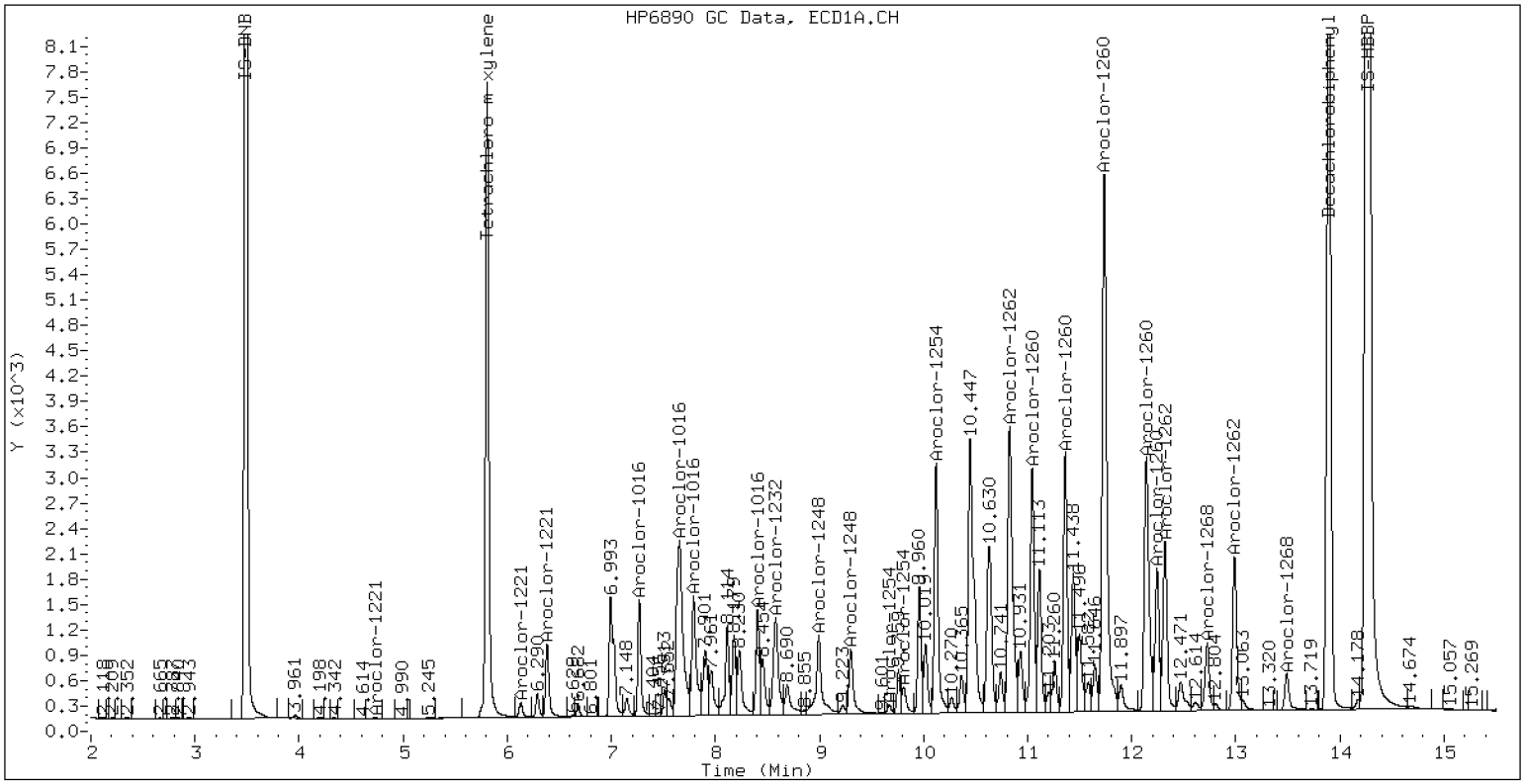
Total PCB Area Col2 (5.785 - 14.019) = 1897008 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

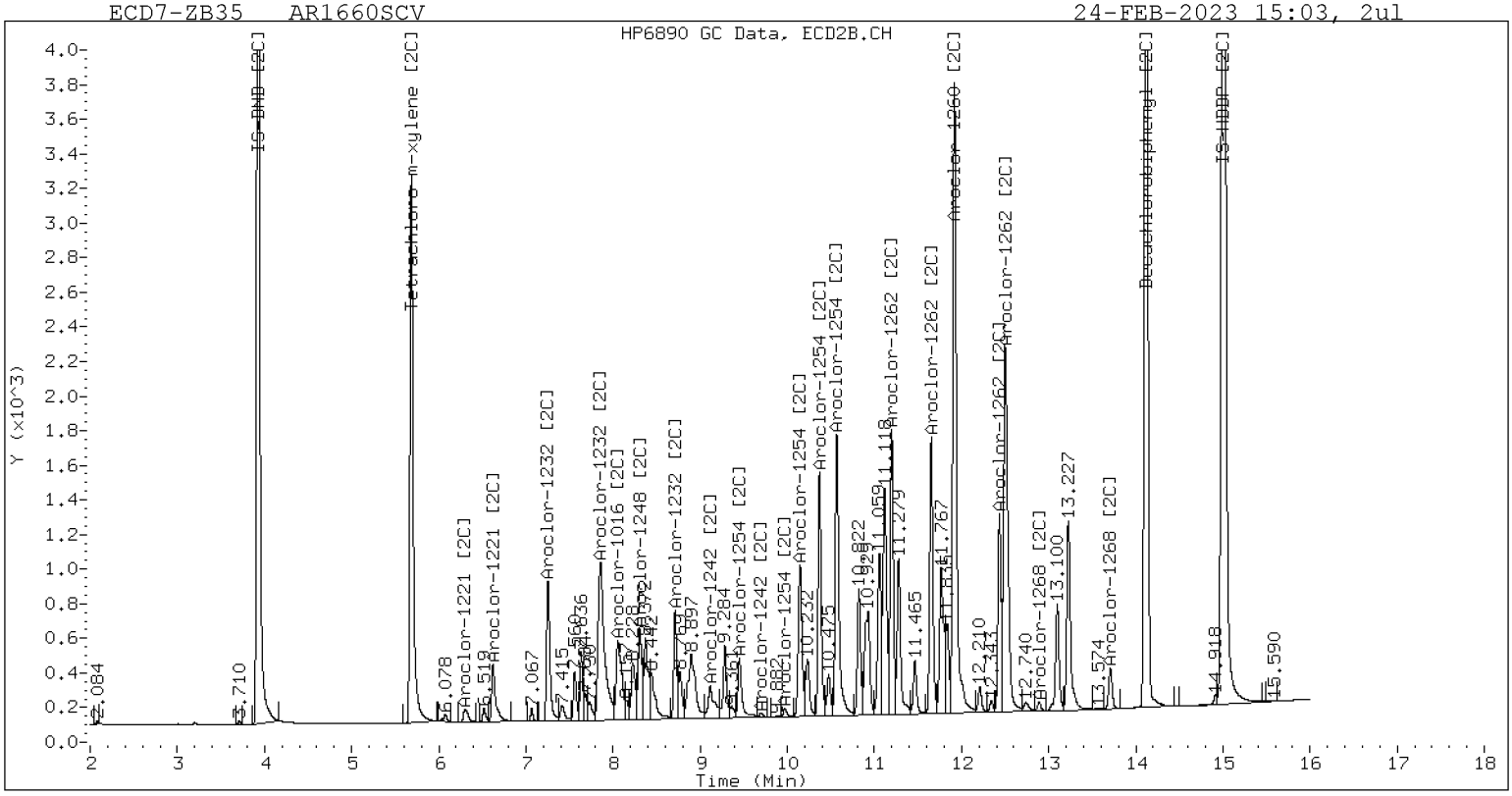
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660SCV 24-FEB-2023 15:03, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660SCV 24-FEB-2023 15:03, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230224.b/02242314ECD7.D
Data file 2: /230224.b/230224.b/02242314ECD7.D
Method: \\target\share\chem4\ecd7.i\230224.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1242SCV
Client ID:
Injection Date: 24-FEB-2023 15:24
Report Date: 02/28/2023 09:51
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.808	0.002	354283	5.686	0.001	172455	33.6	34.5	2.6	Tetrachloro-m-xylene
13.895	0.002	567088	14.120	0.001	347430	37.0	40.3	8.6	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	705650	4.7
Hexabromobiphenyl	1429847	1555683	8.8

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	340433	8.0
Hexabromobiphenyl	513946	565609	10.1

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.270	-0.000	39927	149.0	1	7.256	0.000	32417	162.7
Aroclor-1016	2	7.653	-0.001	132339	162.0	2	7.856	0.001	69235	171.3
Aroclor-1016	3	7.791	0.001	59310	148.7	3	8.055	0.000	29473	161.5
Aroclor-1016	4	8.405	0.000	42537	165.0	4	8.307	-0.000	22792	159.2
Total Col1Ave (4 peaks): 156.2						Total Col2Ave (4 peaks): 163.7				RPD = 5
Corrected Ave (3 peaks): 153.2						Corrected Ave (3 peaks): 161.1				RPD = 5
Aroclor-1221	1	4.733	0.002	319	5.0	1	---			0.0
Aroclor-1221	2	6.131	-0.001	6534	57.8	2	6.319	0.022	4365	71.6
Aroclor-1221	3	6.384	0.001	29664	113.0	3	6.624	0.002	14916	150.2
Total Col1Ave (3 peaks): 58.6						Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	4.733	0.003	319	8.4	1	---			0.0
Aroclor-1232	2	6.131	0.000	6534	87.2	2	7.256	0.002	32417	374.5
Aroclor-1232	3	7.653	-0.003	132339	389.9	3	7.856	-0.004	69235	400.0
Aroclor-1232	4	8.579	-0.002	69445	481.4	4	8.714	-0.001	22167	445.0
Total Col1Ave (4 peaks): 241.7						Total Col2Ave (3 peaks): 406.5				RPD = 51*
Corrected Ave (3 peaks): 161.8						Corrected Ave: < 3 Peaks				
Aroclor-1242	1	7.270	-0.001	39927	182.6	1	7.256	0.000	32417	205.0
Aroclor-1242	2	7.653	-0.003	132339	199.3	2	7.856	-0.002	69235	208.2
Aroclor-1242	3	8.405	-0.000	42537	205.9	3	9.164	-0.004	23068	223.0
Aroclor-1242	4	8.579	-0.000	69445	227.4	4	9.587	-0.010	31021	246.1
Total Col1Ave (4 peaks): 203.8						Total Col2Ave (4 peaks): 220.6				RPD = 8
Corrected Ave (3 peaks): 195.9						Corrected Ave (3 peaks): 212.1				RPD = 8
Aroclor-1248	1	8.405	0.000	42537	123.5	1	8.307	-0.001	22792	140.2
Aroclor-1248	2	8.579	-0.001	69445	158.7	2	8.714	-0.000	22167	131.9
Aroclor-1248	3	9.001	0.003	91942	111.4	3	9.164	-0.002	23068	119.3
Aroclor-1248	4	9.294	-0.000	38711	92.1	4	9.587	-0.003	31021	133.6
Total Col1Ave (4 peaks): 121.4						Total Col2Ave (4 peaks): 131.2				RPD = 8
Corrected Ave (3 peaks): 109.0						Corrected Ave (3 peaks): 128.3				RPD = 16
Aroclor-1254	1	9.294	-0.005	38711	54.6	1	9.450	0.001	13131	50.7
Aroclor-1254	2	9.377	-0.000	17371	54.5	2	9.970	0.000	8340	40.1
Aroclor-1254	3	9.668	-0.000	16373	35.9	3	10.123	-0.000	16364	36.3
Aroclor-1254	4	9.807	-0.001	27490	31.0	4	10.382	0.009	16062	36.6
Aroclor-1254	5	10.175	-0.001	20494	36.9	5	10.572	0.004	4818	18.0
Total Col1Ave (5 peaks): 42.6						Total Col2Ave (5 peaks): 36.4				RPD = 16
Corrected Ave (4 peaks): 39.6						Corrected Ave (4 peaks): 32.8				RPD = 19
Aroclor-1260	1	11.048	0.003	794	1.4	1	11.665	0.012	1652	5.0
Aroclor-1260	2	11.366	0.005	814	1.4	2	11.926	0.008	842	1.0
Aroclor-1260	3	11.739	0.006	1848	1.2	3	12.438	0.002	483	2.1
Aroclor-1260	4	12.145	0.006	1372	1.8	4	12.506	0.004	790	1.4
Aroclor-1260	5	---			0.0	NS	---			----
Total Col1Ave (4 peaks): 1.4						Total Col2Ave (4 peaks): 2.4				RPD = 49*
Corrected Ave (3 peaks): 1.3						Corrected Ave (3 peaks): 1.5				RPD = 12
Aroclor-1262	1	10.832	0.003	13157	27.6	1	11.121	-0.079	6113	12.7
Aroclor-1262	2	12.145	-0.098	1372	1.8	2	11.665	0.013	1652	4.0
Aroclor-1262	3	---			0.0	3	12.438	0.004	483	1.0
Aroclor-1262	4	13.038	0.051	842	1.1	4	12.506	0.004	790	1.1
Total Col1Ave (3 peaks): 10.1						Total Col2Ave (4 peaks): 4.7				RPD = 73*
Corrected Ave: < 3 Peaks						Corrected Ave (3 peaks): 2.0				
Aroclor-1268	1	---			0.0	1	12.438	0.006	483	0.4
Aroclor-1268	2	---			0.0	2	12.506	0.006	790	0.6
Aroclor-1268	3	12.617	-0.082	5851	3.5	3	12.899	0.007	491	0.5
Aroclor-1268	4	13.500	0.010	1745	0.3	4	13.714	0.005	379	0.1
Col1Ave: <3 Quant Peaks						Col2Ave: 0.4				

Total PCB Area Col1 (5.906 - 13.793) = 1149784 Col1 Total PCB = 0.1 ppm*

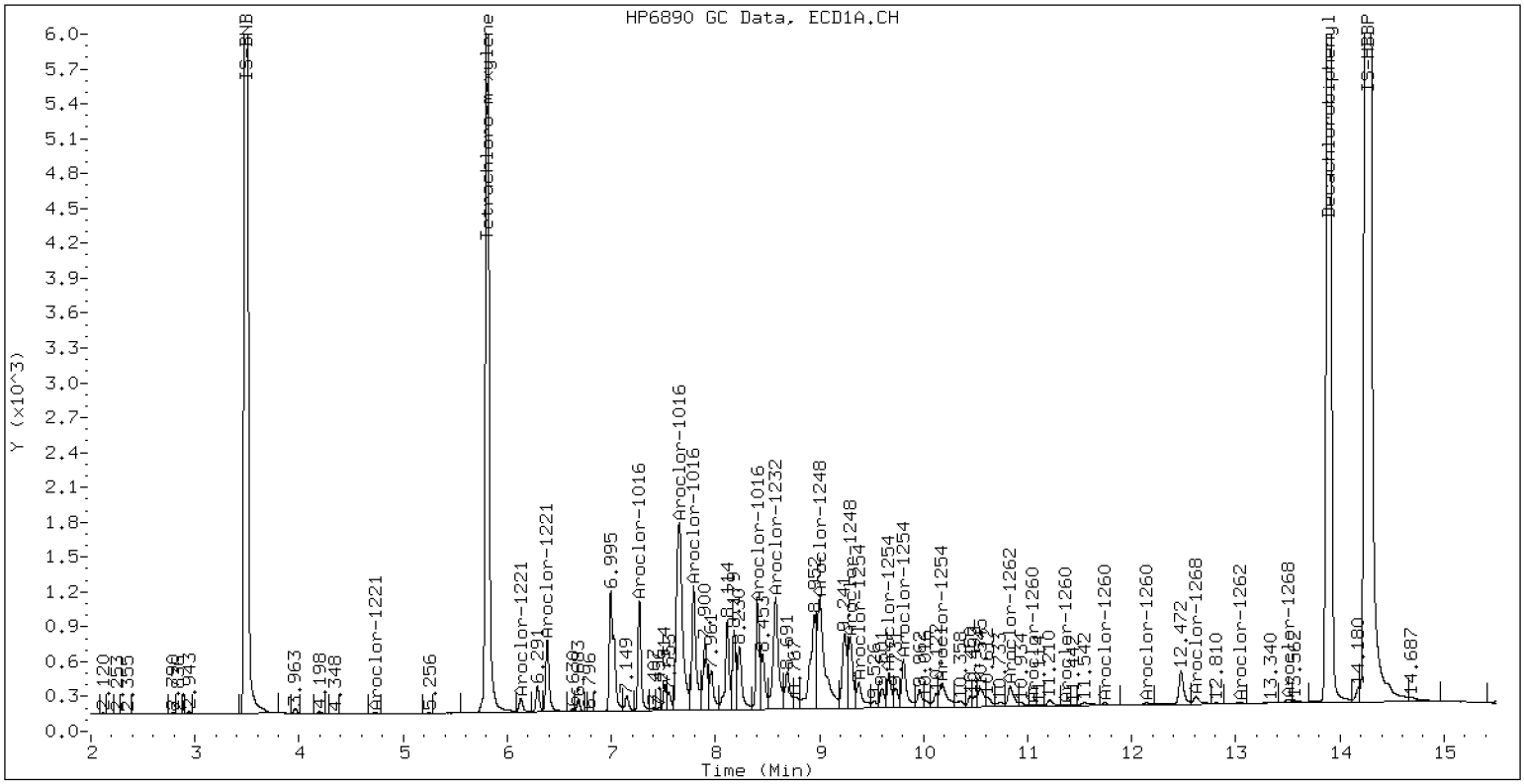
Total PCB Area Col2 (5.785 - 14.019) = 572210 Col2 Total PCB = 0.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

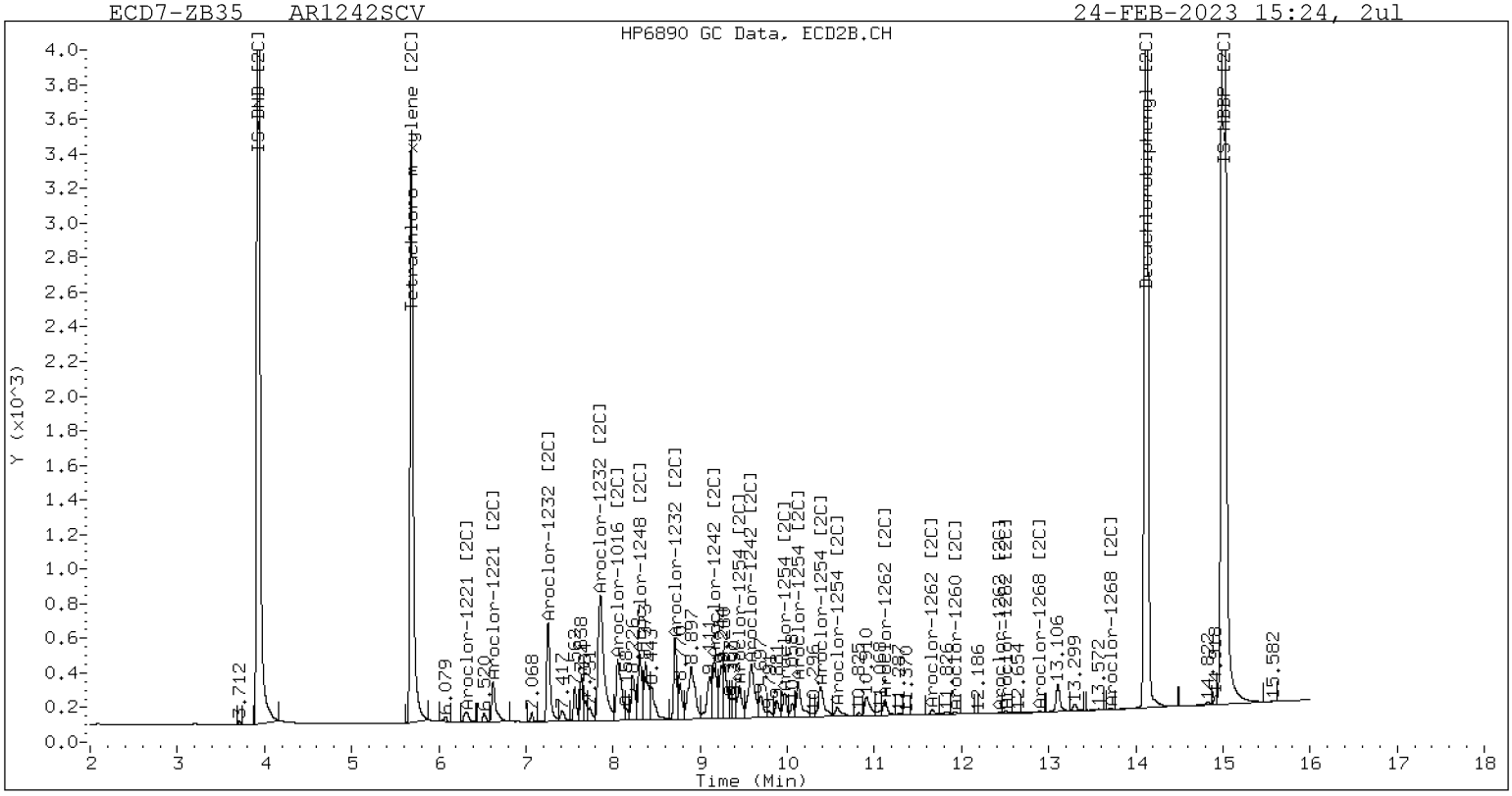
PCB Dual Column Chromatograms

ECD7-ZB5 AR1242SCV 24-FEB-2023 15:24, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1242SCV 24-FEB-2023 15:24, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230224.b/02242315ECD7.D
Data file 2: /230224.b/230224.b/02242315ECD7.D
Method: \\target\share\chem4\ecd7.i\230224.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1248SCV
Client ID:
Injection Date: 24-FEB-2023 15:45
Report Date: 02/28/2023 09:51
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.809	0.002	336655	5.687	0.002	168719	34.9	36.4	4.2	Tetrachloro-m-xylene
13.894	0.001	499162	14.118	-0.001	308317	33.1	36.3	9.2	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	646554	-4.0
Hexabromobiphenyl	1429847	1529451	7.0

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	316066	0.3
Hexabromobiphenyl	513946	557213	8.4

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.271	0.000	19773	80.5	1	7.254	-0.002	16926	91.5
Aroclor-1016	2	7.653	-0.001	88099	117.7	2	7.857	0.001	45733	121.9
Aroclor-1016	3	7.794	0.003	35915	98.3	3	8.060	0.005	8078	47.7
Aroclor-1016	4	8.406	0.001	77842	329.5	4	8.307	0.000	37348	280.9
Total Col1Ave (4 peaks):					156.5	Total Col2Ave (4 peaks):				135.5 RPD = 14
Corrected Ave (3 peaks):					98.8	Corrected Ave (3 peaks):				87.0 RPD = 13
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	6.133	0.001	680	6.6	2	6.326	0.030	1966	34.7
Aroclor-1221	3	6.384	0.002	3390	14.1	3	6.631	0.009	1571	17.0
Col1Ave: <3 Quant Peaks						Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	6.133	0.002	680	9.9	2	7.254	-0.000	16926	210.6
Aroclor-1232	3	7.653	-0.002	88099	283.3	3	7.857	-0.004	45733	284.6
Aroclor-1232	4	8.581	-0.000	99572	753.4	4	8.714	-0.001	38224	826.6
Total Col1Ave (3 peaks):					348.9	Total Col2Ave (3 peaks):				440.6 RPD = 23
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1242	1	7.271	-0.000	19773	98.7	1	7.254	-0.002	16926	115.3
Aroclor-1242	2	7.653	-0.003	88099	144.8	2	7.857	-0.001	45733	148.2
Aroclor-1242	3	8.406	0.000	77842	411.2	3	9.165	-0.002	45021	468.7
Aroclor-1242	4	8.581	0.001	99572	355.8	4	9.590	-0.008	53613	458.1
Total Col1Ave (4 peaks):					252.6	Total Col2Ave (4 peaks):				297.6 RPD = 16
Corrected Ave (3 peaks):					199.8	Corrected Ave (3 peaks):				240.5 RPD = 19
Aroclor-1248	1	8.406	0.000	77842	246.8	1	8.307	-0.001	37348	247.5
Aroclor-1248	2	8.581	0.000	99572	248.3	2	8.714	-0.000	38224	245.0
Aroclor-1248	3	8.998	-0.000	186857	247.0	3	9.165	-0.000	45021	250.7
Aroclor-1248	4	9.294	-0.000	98398	255.5	4	9.590	-0.001	53613	248.7
Total Col1Ave (4 peaks):					249.4	Total Col2Ave (4 peaks):				248.0 RPD = 1
Corrected Ave (3 peaks):					247.4	Corrected Ave (3 peaks):				247.0 RPD = 0
Aroclor-1254	1	9.294	-0.004	98398	151.6	1	9.450	0.001	21823	90.8
Aroclor-1254	2	9.377	-0.001	49616	169.9	2	9.971	0.001	19450	100.6
Aroclor-1254	3	9.669	0.001	40230	96.4	3	10.124	0.000	36574	87.5
Aroclor-1254	4	9.808	0.001	68500	84.4	4	10.389	0.016	35100	86.1
Aroclor-1254	5	10.183	0.007	47365	93.1	5	10.573	0.004	5676	22.9
Total Col1Ave (5 peaks):					119.1	Total Col2Ave (5 peaks):				77.6 RPD = 42*
Corrected Ave (4 peaks):					106.4	Corrected Ave (4 peaks):				71.8 RPD = 39
Aroclor-1260	1	11.047	0.003	1670	3.0	1	11.662	0.009	2055	6.3
Aroclor-1260	2	11.362	0.001	1111	1.9	2	11.924	0.007	1466	1.8
Aroclor-1260	3	11.739	0.005	2107	1.4	3	12.434	-0.002	573	2.6
Aroclor-1260	4	12.144	0.005	1379	1.8	4	12.505	0.003	1003	1.8
Aroclor-1260	5	12.251	0.006	698	2.1	NS	---			----
Total Col1Ave (5 peaks):					2.1	Total Col2Ave (4 peaks):				3.1 RPD = 41*
Corrected Ave (4 peaks):					1.8	Corrected Ave (3 peaks):				2.0 RPD = 12
Aroclor-1262	1	10.833	0.005	15355	32.7	1	11.122	-0.079	7225	15.2
Aroclor-1262	2	12.251	0.007	698	0.9	2	11.662	0.011	2055	5.1
Aroclor-1262	3	12.321	0.002	836	1.0	3	12.434	0.000	573	1.2
Aroclor-1262	4	12.991	0.004	1043	1.4	4	12.505	0.003	1003	1.4
Total Col1Ave (4 peaks):					9.0	Total Col2Ave (4 peaks):				5.7 RPD = 45*
Corrected Ave (3 peaks):					1.1	Corrected Ave (3 peaks):				2.6 RPD = 80*
Aroclor-1268	1	12.251	0.004	698	0.4	1	12.434	0.002	573	0.5
Aroclor-1268	2	12.321	0.004	836	0.4	2	12.505	0.005	1003	0.8
Aroclor-1268	3	12.700	0.001	2449	1.5	3	12.892	0.001	721	0.7
Aroclor-1268	4	13.493	0.003	7547	1.4	4	13.708	-0.001	2265	0.7
Total Col1Ave (4 peaks):					0.9	Total Col2Ave (4 peaks):				0.7 RPD = 29
Corrected Ave (3 peaks):					0.7	Corrected Ave (3 peaks):				0.6 RPD = 13

Total PCB Area Col1 (5.906 - 13.793) = 1574335 Col1 Total PCB = 0.2 ppm*

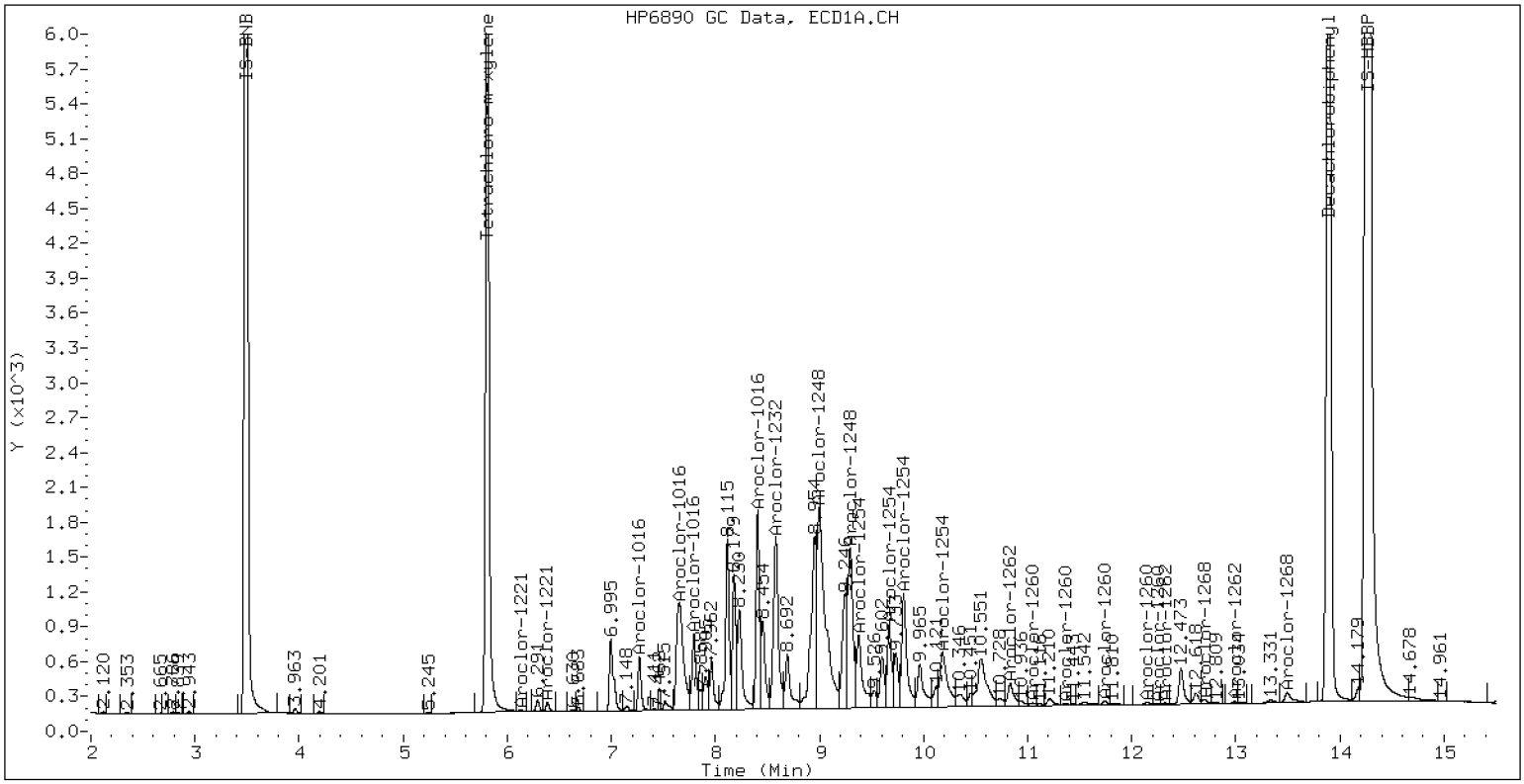
Total PCB Area Col2 (5.785 - 14.019) = 746330 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

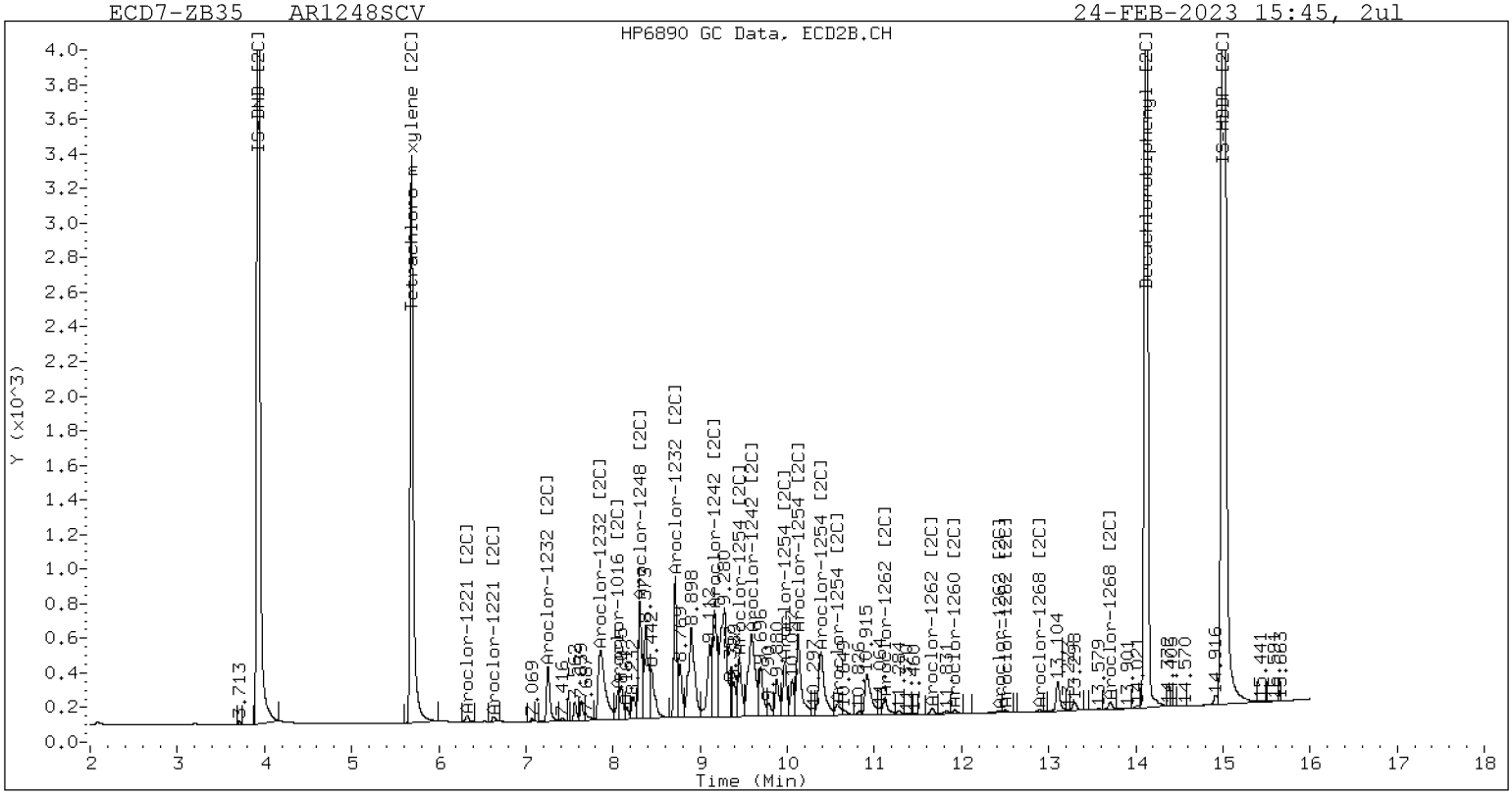
PCB Dual Column Chromatograms

ECD7-ZB5 AR1248SCV 24-FEB-2023 15:45, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1248SCV 24-FEB-2023 15:45, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230224.b/02242316ECD7.D
Data file 2: /230224.b/230224.b/02242316ECD7.D
Method: \\target\share\chem4\ecd7.i\230224.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254SCV
Client ID:
Injection Date: 24-FEB-2023 16:06
Report Date: 02/28/2023 09:51
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.806	-0.000	354312	5.686	0.001	174604	36.1	37.1	2.6	Tetrachloro-m-xylene
13.895	0.002	540961	14.119	-0.000	329134	34.6	37.9	9.0	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	656887	-2.5
Hexabromobiphenyl	1429847	1585505	10.9

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	320936	1.8
Hexabromobiphenyl	513946	570006	10.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.270	0.000	565	2.3	1	7.255	-0.001	387	2.1
Aroclor-1016	2	7.656	0.002	1875	2.5	2	7.854	-0.002	860	2.3
Aroclor-1016	3	7.792	0.002	1106	3.0	3	8.098	0.043	578	3.4
Aroclor-1016	4	8.405	0.000	29924	124.7	4	8.307	0.000	21985	162.9
	Total Col1Ave (4 peaks):				33.1	Total Col2Ave (4 peaks):				42.6 RPD = 25
	Corrected Ave (3 peaks):				2.6	Corrected Ave (3 peaks):				2.6 RPD = 0
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	6.325	0.028	1947	33.9
Aroclor-1221	3	---			0.0	3	6.637	0.015	368	3.9
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	7.255	0.001	387	4.7
Aroclor-1232	3	7.656	0.000	1875	5.9	3	7.854	-0.007	860	5.3
Aroclor-1232	4	8.583	0.002	12327	91.8	4	8.715	0.000	15013	319.7
	Col1Ave: <3 Quant Peaks					Col2Ave: 109.9				
Aroclor-1242	1	7.270	-0.000	565	2.8	1	7.255	-0.001	387	2.6
Aroclor-1242	2	7.656	0.000	1875	3.0	2	7.854	-0.004	860	2.7
Aroclor-1242	3	8.405	-0.000	29924	155.6	3	9.169	0.002	21933	224.9
Aroclor-1242	4	8.583	0.003	12327	43.4	4	9.545	-0.053	34065	286.6
	Total Col1Ave (4 peaks):				51.2	Total Col2Ave (4 peaks):				129.2 RPD = 87*
	Corrected Ave (3 peaks):				16.4	Corrected Ave (3 peaks):				76.7 RPD = 130*
Aroclor-1248	1	8.405	0.000	29924	93.4	1	8.307	-0.001	21985	143.5
Aroclor-1248	2	8.583	0.002	12327	30.3	2	8.715	0.001	15013	94.8
Aroclor-1248	3	8.992	-0.007	145580	189.4	3	9.169	0.004	21933	120.3
Aroclor-1248	4	9.298	0.003	155450	397.3	4	9.545	-0.046	34065	155.6
	Total Col1Ave (4 peaks):				177.6	Total Col2Ave (4 peaks):				128.5 RPD = 32
	Corrected Ave (3 peaks):				104.3	Corrected Ave (3 peaks):				119.5 RPD = 14
Aroclor-1254	1	9.298	-0.001	155450	235.7	1	9.450	0.001	58639	240.4
Aroclor-1254	2	9.377	-0.001	69801	235.3	2	9.971	0.000	47008	239.5
Aroclor-1254	3	9.668	-0.000	100839	237.8	3	10.124	0.000	100062	235.7
Aroclor-1254	4	9.807	0.000	190544	231.1	4	10.373	0.000	99535	240.5
Aroclor-1254	5	10.176	-0.000	122321	236.7	5	10.570	0.001	61549	244.2
	Total Col1Ave (5 peaks):				235.3	Total Col2Ave (5 peaks):				240.1 RPD = 2
	Corrected Ave (4 peaks):				234.7	Corrected Ave (4 peaks):				239.0 RPD = 2
Aroclor-1260	1	11.043	-0.002	12288	21.5	1	11.661	0.008	29062	86.7
Aroclor-1260	2	11.361	-0.001	13660	22.9	2	11.921	0.003	22238	26.0
Aroclor-1260	3	11.736	0.002	37632	23.8	3	12.441	0.005	3555	15.7
Aroclor-1260	4	12.141	0.002	27105	34.1	4	12.503	0.001	13126	22.8
Aroclor-1260	5	12.320	0.076	2381	6.9	NS	---			----
	Total Col1Ave (5 peaks):				21.9	Total Col2Ave (4 peaks):				37.8 RPD = 53*
	Corrected Ave (4 peaks):				18.8	Corrected Ave (3 peaks):				21.5 RPD = 13
Aroclor-1262	1	10.827	-0.002	220626	453.6	1	11.281	0.081	13562	27.9
Aroclor-1262	2	12.320	0.076	2381	3.0	2	11.661	0.009	29062	70.1
Aroclor-1262	3	---			0.0	3	12.441	0.007	3555	7.6
Aroclor-1262	4	12.989	0.002	3225	4.1	4	12.503	0.001	13126	17.8
	Total Col1Ave (3 peaks):				153.6	Total Col2Ave (4 peaks):				30.8 RPD = 133*
	Corrected Ave: < 3 Peaks					Corrected Ave (3 peaks):				17.7
Aroclor-1268	1	12.320	0.074	2381	1.2	1	12.441	0.009	3555	3.1
Aroclor-1268	2	---			0.0	2	12.503	0.003	13126	10.6
Aroclor-1268	3	12.701	0.002	2939	1.7	3	12.892	0.000	772	0.7
Aroclor-1268	4	13.493	0.003	9164	1.6	4	13.707	-0.002	2801	0.8
	Total Col1Ave (3 peaks):				1.5	Total Col2Ave (4 peaks):				3.8 RPD = 87*
	Corrected Ave: < 3 Peaks					Corrected Ave (3 peaks):				1.6

Total PCB Area Col1 (5.906 - 13.793) = 2118645 Col1 Total PCB = 0.3 ppm*

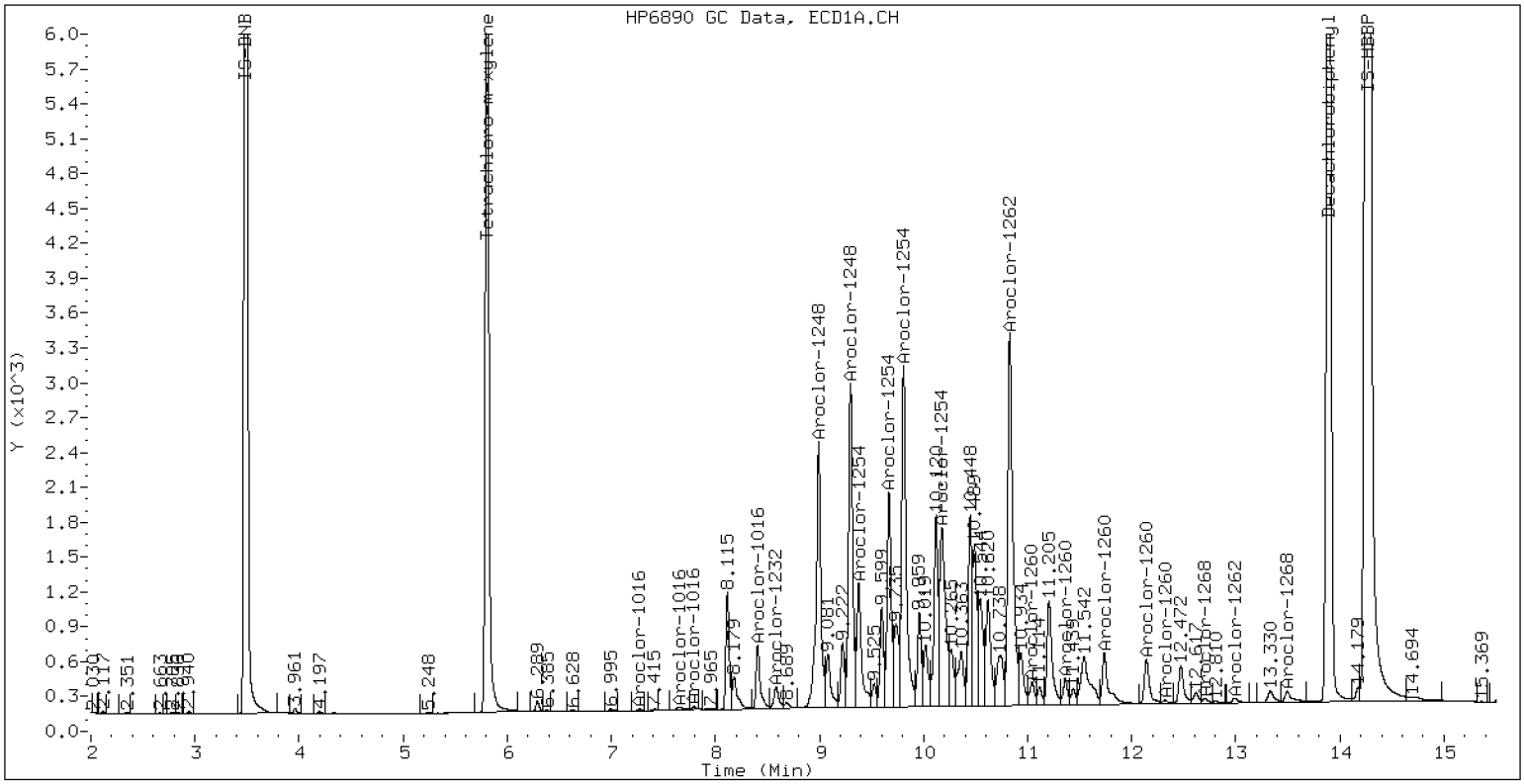
Total PCB Area Col2 (5.785 - 14.019) = 1007601 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

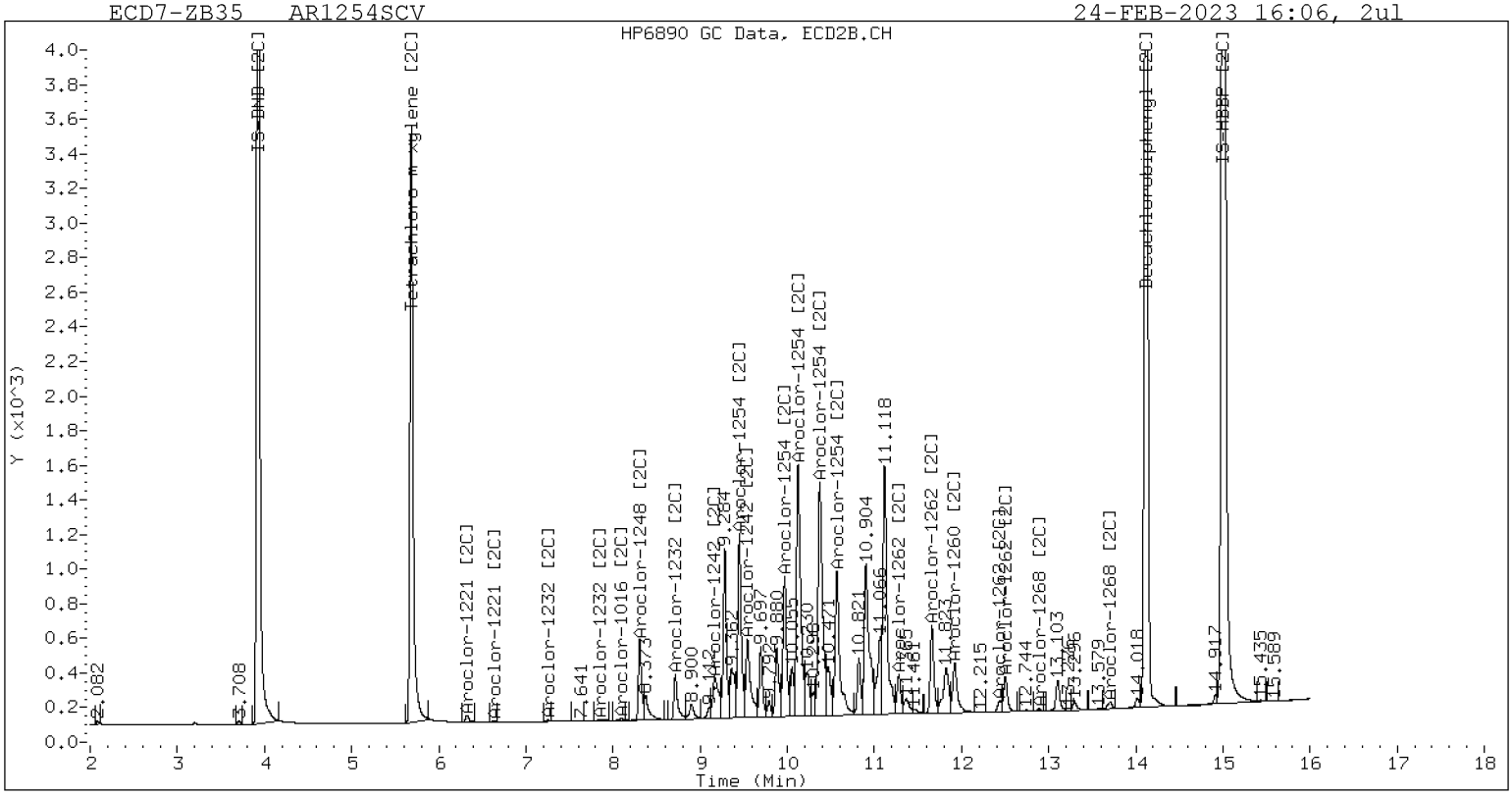
PCB Dual Column Chromatograms

ECD7-ZB5 AR1254SCV 24-FEB-2023 16:06, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1254SCV 24-FEB-2023 16:06, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230224.b/02242317ECD7.D
Data file 2: /230224.b/230224.b/02242317ECD7.D
Method: \\target\share\chem4\ecd7.i\230224.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR2162SCV
Client ID:
Injection Date: 24-FEB-2023 16:27
Report Date: 02/28/2023 09:51
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.807	0.000	356001	5.685	0.000	170882	36.0	36.6	1.7	Tetrachloro-m-xylene
13.895	0.002	533971	14.119	0.000	326235	34.4	37.9	9.5	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	661953	-1.8
Hexabromobiphenyl	1429847	1574993	10.2

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	317807	0.8
Hexabromobiphenyl	513946	565951	10.1

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.269	-0.001	7175	28.5	1	7.256	0.000	3727	20.0
Aroclor-1016	2	7.659	0.005	12893	16.8	2	7.863	0.007	5834	15.5
Aroclor-1016	3	7.794	0.004	6936	18.5	3	8.063	0.009	2963	17.4
Aroclor-1016	4	8.408	0.003	3610	14.9	4	8.308	0.002	2045	15.3
Total Col1Ave (4 peaks):					19.7	Total Col2Ave (4 peaks):				17.0 RPD = 14
Corrected Ave (3 peaks):					16.8	Corrected Ave (3 peaks):				16.1 RPD = 4
Aroclor-1221	1	4.730	-0.000	15803	266.6	1	4.955	-0.001	7909	262.9
Aroclor-1221	2	6.131	-0.001	26946	254.1	2	6.296	-0.000	14303	251.2
Aroclor-1221	3	6.382	-0.000	62477	253.8	3	6.622	0.000	23612	254.7
Total Col1Ave (3 peaks):					258.2	Total Col2Ave (3 peaks):				256.3 RPD = 1
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1232	1	4.730	0.000	15803	445.6	1	4.955	-0.001	7909	486.4
Aroclor-1232	2	6.131	0.000	26946	383.1	2	7.256	0.002	3727	46.1
Aroclor-1232	3	7.659	0.003	12893	40.5	3	7.863	0.002	5834	36.1
Aroclor-1232	4	8.583	0.003	2684	19.8	4	8.716	0.002	1189	25.6
Total Col1Ave (4 peaks):					222.3	Total Col2Ave (4 peaks):				148.5 RPD = 40
Corrected Ave (3 peaks):					147.8	Corrected Ave (3 peaks):				35.9 RPD = 122*
Aroclor-1242	1	7.269	-0.001	7175	35.0	1	7.256	0.000	3727	25.2
Aroclor-1242	2	7.659	0.003	12893	20.7	2	7.863	0.005	5834	18.8
Aroclor-1242	3	8.408	0.002	3610	18.6	3	9.175	0.008	1082	11.2
Aroclor-1242	4	8.583	0.004	2684	9.4	4	9.543	-0.054	1390	11.8
Total Col1Ave (4 peaks):					20.9	Total Col2Ave (4 peaks):				16.8 RPD = 22
Corrected Ave (3 peaks):					16.2	Corrected Ave (3 peaks):				13.9 RPD = 15
Aroclor-1248	1	8.408	0.002	3610	11.2	1	8.308	0.001	2045	13.5
Aroclor-1248	2	8.583	0.003	2684	6.5	2	8.716	0.002	1189	7.6
Aroclor-1248	3	8.994	-0.005	24440	31.6	3	9.175	0.009	1082	6.0
Aroclor-1248	4	9.302	0.008	26328	66.8	4	9.543	-0.048	1390	6.4
Total Col1Ave (4 peaks):					29.0	Total Col2Ave (4 peaks):				8.4 RPD = 110*
Corrected Ave (3 peaks):					16.4	Corrected Ave (3 peaks):				6.7 RPD = 85*
Aroclor-1254	1	9.302	0.004	26328	39.6	1	9.452	0.003	9571	39.6
Aroclor-1254	2	---			0.0	2	9.972	0.002	1733	8.9
Aroclor-1254	3	9.670	0.002	3721	8.7	3	10.147	0.023	49218	117.1
Aroclor-1254	4	9.808	0.000	9653	11.6	4	10.370	-0.002	59603	145.4
Aroclor-1254	5	10.120	-0.056	131179	251.9	5	10.569	0.001	79533	318.7
Total Col1Ave (4 peaks):					78.0	Total Col2Ave (5 peaks):				125.9 RPD = 47*
Corrected Ave (3 peaks):					20.0	Corrected Ave (4 peaks):				77.8 RPD = 118*
Aroclor-1260	1	11.044	-0.000	223208	394.0	1	11.652	-0.001	104071	312.7
Aroclor-1260	2	11.361	-0.001	190166	321.2	2	11.919	0.002	251579	296.2
Aroclor-1260	3	11.737	0.003	458281	291.9	3	12.435	-0.001	113645	504.2
Aroclor-1260	4	12.141	0.002	149720	189.4	4	12.501	-0.001	182951	319.6
Aroclor-1260	5	12.244	0.000	196033	576.0	NS	---			----
Total Col1Ave (5 peaks):					354.5	Total Col2Ave (4 peaks):				358.2 RPD = 1
Corrected Ave (4 peaks):					299.1	Corrected Ave (3 peaks):				309.5 RPD = 3
Aroclor-1262	1	10.828	-0.001	121431	251.3	1	11.201	0.000	121335	251.1
Aroclor-1262	2	12.244	0.000	196033	249.3	2	11.652	0.000	104071	252.9
Aroclor-1262	3	12.319	0.001	211092	249.8	3	12.435	0.001	113645	243.4
Aroclor-1262	4	12.988	0.001	183455	237.5	4	12.501	-0.001	182951	250.1
Total Col1Ave (4 peaks):					247.0	Total Col2Ave (4 peaks):				249.3 RPD = 1
Corrected Ave (3 peaks):					245.5	Corrected Ave (3 peaks):				248.2 RPD = 1
Aroclor-1268	1	12.244	-0.002	196033	97.1	1	12.435	0.003	113645	99.7
Aroclor-1268	2	12.319	0.002	211092	105.6	2	12.501	0.001	182951	149.3
Aroclor-1268	3	12.723	0.024	77240	45.2	3	12.891	-0.000	7755	7.4
Aroclor-1268	4	13.488	-0.002	65479	11.6	4	13.709	0.000	35146	10.5
Total Col1Ave (4 peaks):					64.9	Total Col2Ave (4 peaks):				66.7 RPD = 3

Corrected Ave (3 peaks): 51.3 Corrected Ave (3 peaks): 39.2 RPD = 27

Total PCB Area Col1 (5.906 - 13.793) = 3239932 Col1 Total PCB = 0.4 ppm*

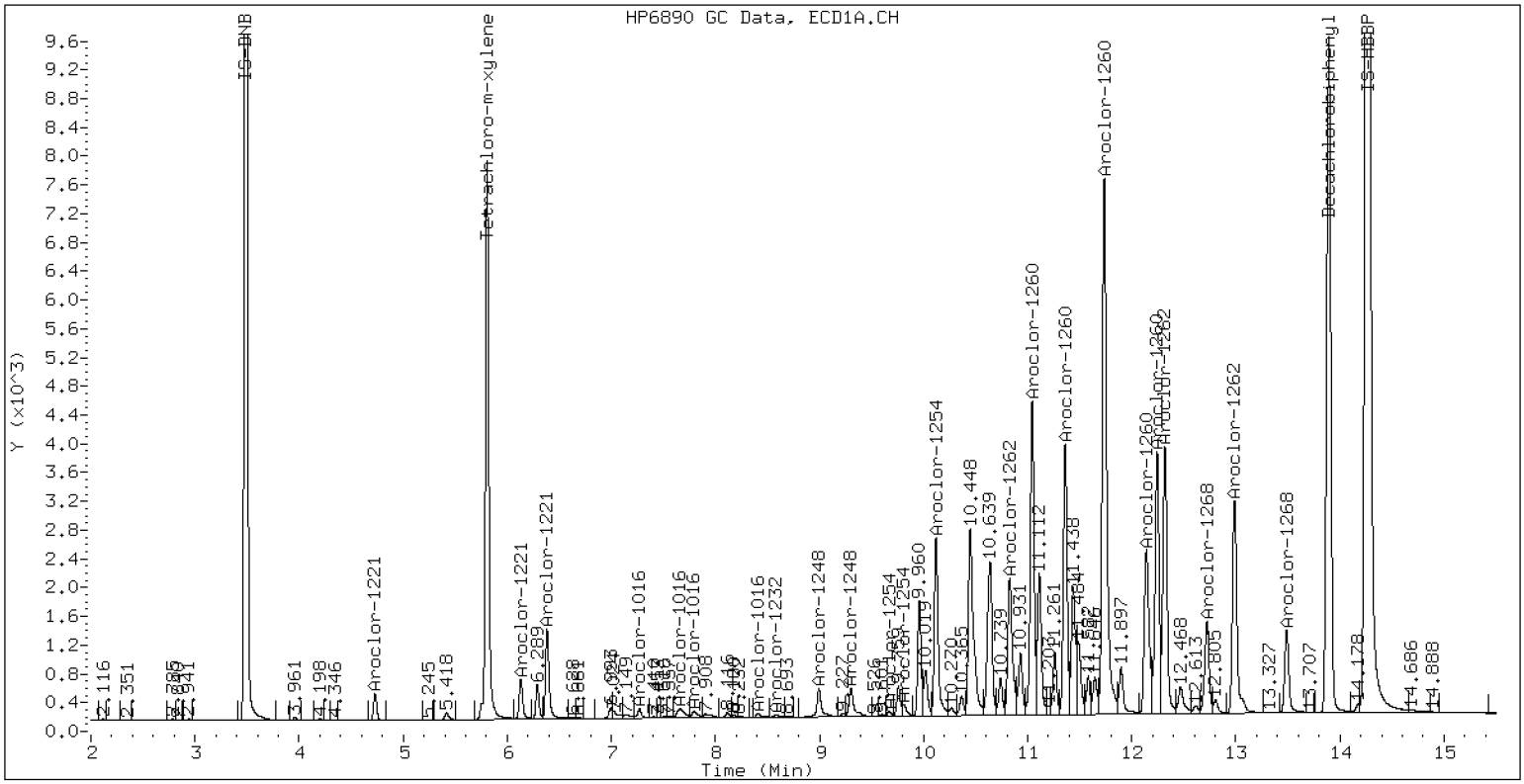
Total PCB Area Col2 (5.785 - 14.019) = 1655522 Col2 Total PCB = 0.4 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

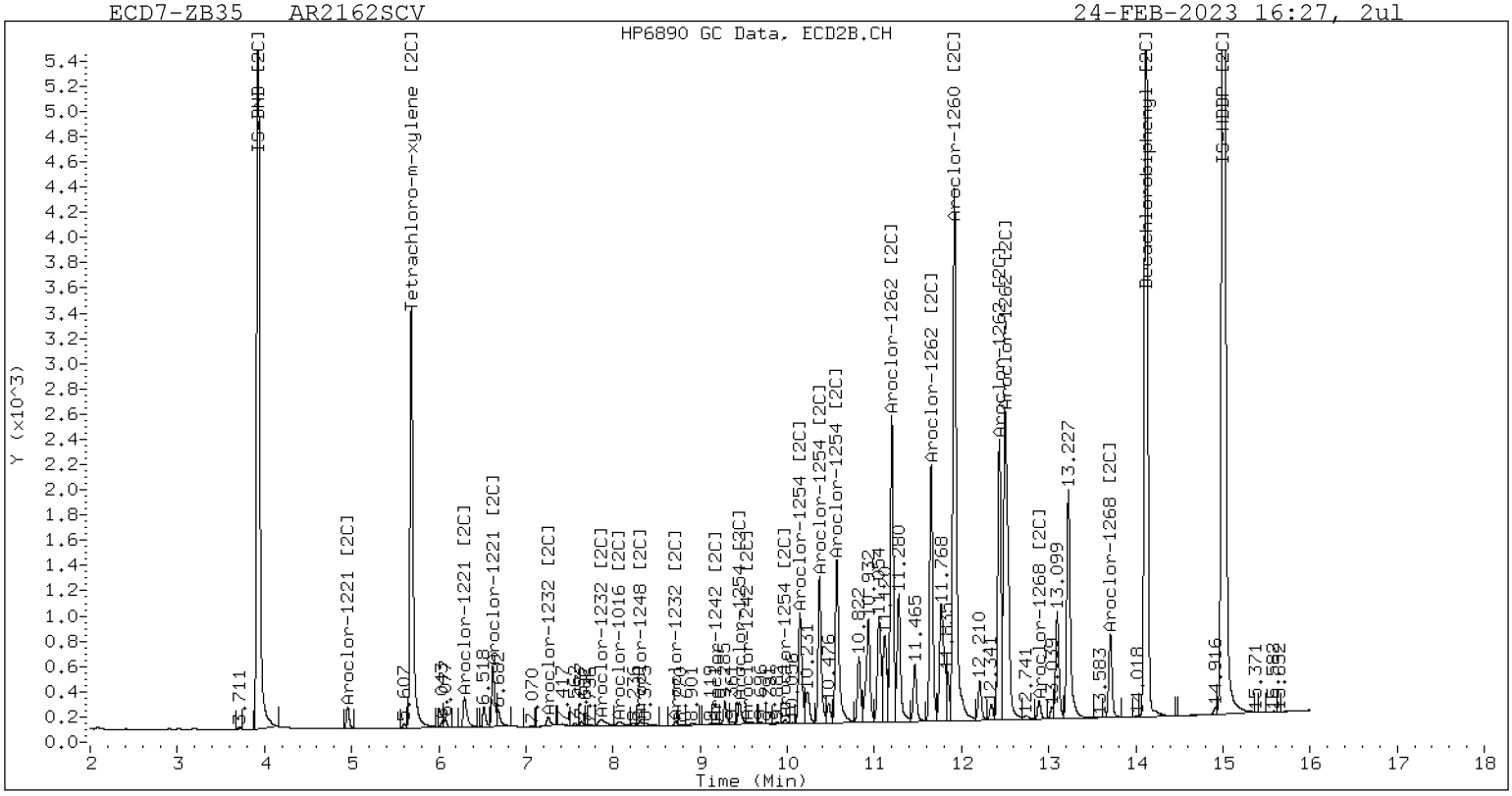
PCB Dual Column Chromatograms

ECD7-ZB5 AR2162SCV 24-FEB-2023 16:27, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR2162SCV 24-FEB-2023 16:27, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230224.b/02242318ECD7.D
Data file 2: /230224.b/230224.b/02242318ECD7.D
Method: \\target\share\chem4\ecd7.i\230224.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR3268SCV
Client ID:
Injection Date: 24-FEB-2023 16:48
Report Date: 02/28/2023 09:51
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.806	0.000	363331	5.685	0.000	176204	37.1	38.2	2.9	Tetrachloro-m-xylene
13.894	0.001	800845	14.118	-0.001	488290	51.3	56.4	9.5	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	656592	-2.6
Hexabromobiphenyl	1429847	1584453	10.8

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	314741	-0.2
Hexabromobiphenyl	513946	568346	10.6

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.270	-0.001	28327	113.6	1	7.254	-0.001	20651	112.1
Aroclor-1016	2	7.657	0.003	80668	106.1	2	7.861	0.005	41326	110.6
Aroclor-1016	3	7.793	0.003	40661	109.6	3	8.060	0.005	20446	121.2
Aroclor-1016	4	8.407	0.002	24680	102.9	4	8.308	0.001	13576	102.5
Total Col1Ave (4 peaks):					108.0	Total Col2Ave (4 peaks):				111.6 RPD = 3
Corrected Ave (3 peaks):					106.2	Corrected Ave (3 peaks):				108.4 RPD = 2
Aroclor-1221	1	4.729	-0.001	8535	145.1	1	4.956	-0.000	3965	133.1
Aroclor-1221	2	6.132	-0.000	15523	147.6	2	6.297	0.001	8689	154.1
Aroclor-1221	3	6.382	-0.000	45872	187.9	3	6.622	0.001	22272	242.6
Total Col1Ave (3 peaks):					160.2	Total Col2Ave (3 peaks):				176.6 RPD = 10
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1232	1	4.729	-0.001	8535	242.6	1	4.956	0.000	3965	246.2
Aroclor-1232	2	6.132	0.001	15523	222.5	2	7.254	0.000	20651	258.1
Aroclor-1232	3	7.657	0.001	80668	255.4	3	7.861	0.001	41326	258.3
Aroclor-1232	4	8.582	0.001	34784	259.2	4	8.714	-0.001	12504	271.5
Total Col1Ave (4 peaks):					244.9	Total Col2Ave (4 peaks):				258.5 RPD = 5
Corrected Ave (3 peaks):					240.2	Corrected Ave (3 peaks):				254.2 RPD = 6
Aroclor-1242	1	7.270	-0.001	28327	139.2	1	7.254	-0.001	20651	141.2
Aroclor-1242	2	7.657	0.001	80668	130.5	2	7.861	0.003	41326	134.4
Aroclor-1242	3	8.407	0.001	24680	128.4	3	9.170	0.003	12830	134.1
Aroclor-1242	4	8.582	0.003	34784	122.4	4	9.600	0.003	14836	127.3
Total Col1Ave (4 peaks):					130.1	Total Col2Ave (4 peaks):				134.3 RPD = 3
Corrected Ave (3 peaks):					127.1	Corrected Ave (3 peaks):				132.0 RPD = 4
Aroclor-1248	1	8.407	0.001	24680	77.0	1	8.308	0.000	13576	90.3
Aroclor-1248	2	8.582	0.001	34784	85.4	2	8.714	-0.000	12504	80.5
Aroclor-1248	3	8.996	-0.003	83592	108.8	3	9.170	0.004	12830	71.8
Aroclor-1248	4	9.292	-0.003	39603	101.3	4	9.600	0.010	14836	69.1
Total Col1Ave (4 peaks):					93.1	Total Col2Ave (4 peaks):				77.9 RPD = 18
Corrected Ave (3 peaks):					87.9	Corrected Ave (3 peaks):				73.8 RPD = 17
Aroclor-1254	1	9.292	-0.007	39603	60.1	1	9.452	0.003	4590	19.2
Aroclor-1254	2	9.377	-0.000	11450	38.6	2	9.973	0.003	2892	15.0
Aroclor-1254	3	9.674	0.005	6387	15.1	3	10.131	0.007	6052	14.5
Aroclor-1254	4	9.813	0.006	10162	12.3	4	10.390	0.017	5324	13.1
Aroclor-1254	5	10.189	0.012	6862	13.3	5	10.572	0.004	1891	7.7
Total Col1Ave (5 peaks):					27.9	Total Col2Ave (5 peaks):				13.9 RPD = 67*
Corrected Ave (4 peaks):					19.8	Corrected Ave (4 peaks):				12.6 RPD = 45*
Aroclor-1260	1	11.046	0.002	87033	152.7	1	11.645	-0.008	62543	187.1
Aroclor-1260	2	11.362	0.001	6300	10.6	2	11.920	0.003	28552	33.5
Aroclor-1260	3	11.738	0.004	54524	34.5	3	12.432	-0.004	285450	1261.2
Aroclor-1260	4	12.144	0.005	1727	2.2	4	12.499	-0.002	306992	534.0
Aroclor-1260	5	12.246	0.002	502931	1469.0	NS	---			----
Total Col1Ave (5 peaks):					333.8	Total Col2Ave (4 peaks):				503.9 RPD = 41*
Corrected Ave (4 peaks):					50.0	Corrected Ave (3 peaks):				251.5 RPD = 134*
Aroclor-1262	1	10.832	0.004	3395	7.0	1	11.201	0.001	44255	91.2
Aroclor-1262	2	12.246	0.002	502931	635.9	2	11.645	-0.007	62543	151.3
Aroclor-1262	3	12.318	-0.000	497006	584.5	3	12.432	-0.002	285450	608.7
Aroclor-1262	4	12.987	-0.000	202197	260.2	4	12.499	-0.003	306992	417.9
Total Col1Ave (4 peaks):					371.9	Total Col2Ave (4 peaks):				317.3 RPD = 16
Corrected Ave (3 peaks):					283.9	Corrected Ave (3 peaks):				220.1 RPD = 25
Aroclor-1268	1	12.246	-0.001	502931	247.7	1	12.432	-0.000	285450	249.4
Aroclor-1268	2	12.318	0.002	497006	247.2	2	12.499	-0.001	306992	249.5
Aroclor-1268	3	12.699	-0.000	422793	245.8	3	12.892	0.000	260893	248.4
Aroclor-1268	4	13.490	0.000	1386953	244.9	4	13.709	-0.000	829733	247.1
Total Col1Ave (4 peaks):					246.4	Total Col2Ave (4 peaks):				248.6 RPD = 1

Corrected Ave (3 peaks): 246.0 Corrected Ave (3 peaks): 248.3 RPD = 1

Total PCB Area Col1 (5.906 - 13.793) = 4180607 Col1 Total PCB = 0.5 ppm*

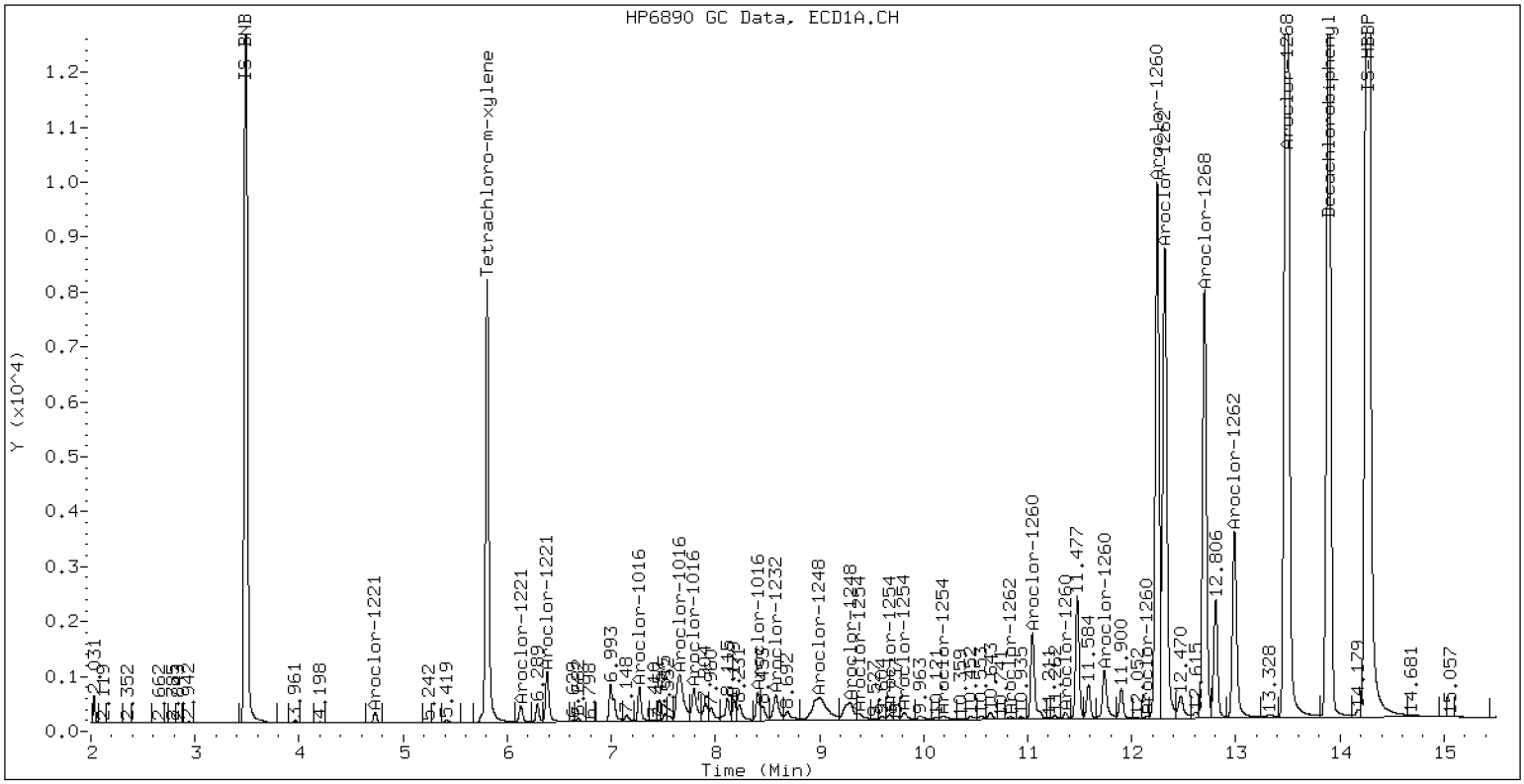
Total PCB Area Col2 (5.785 - 14.019) = 2376912 Col2 Total PCB = 0.6 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

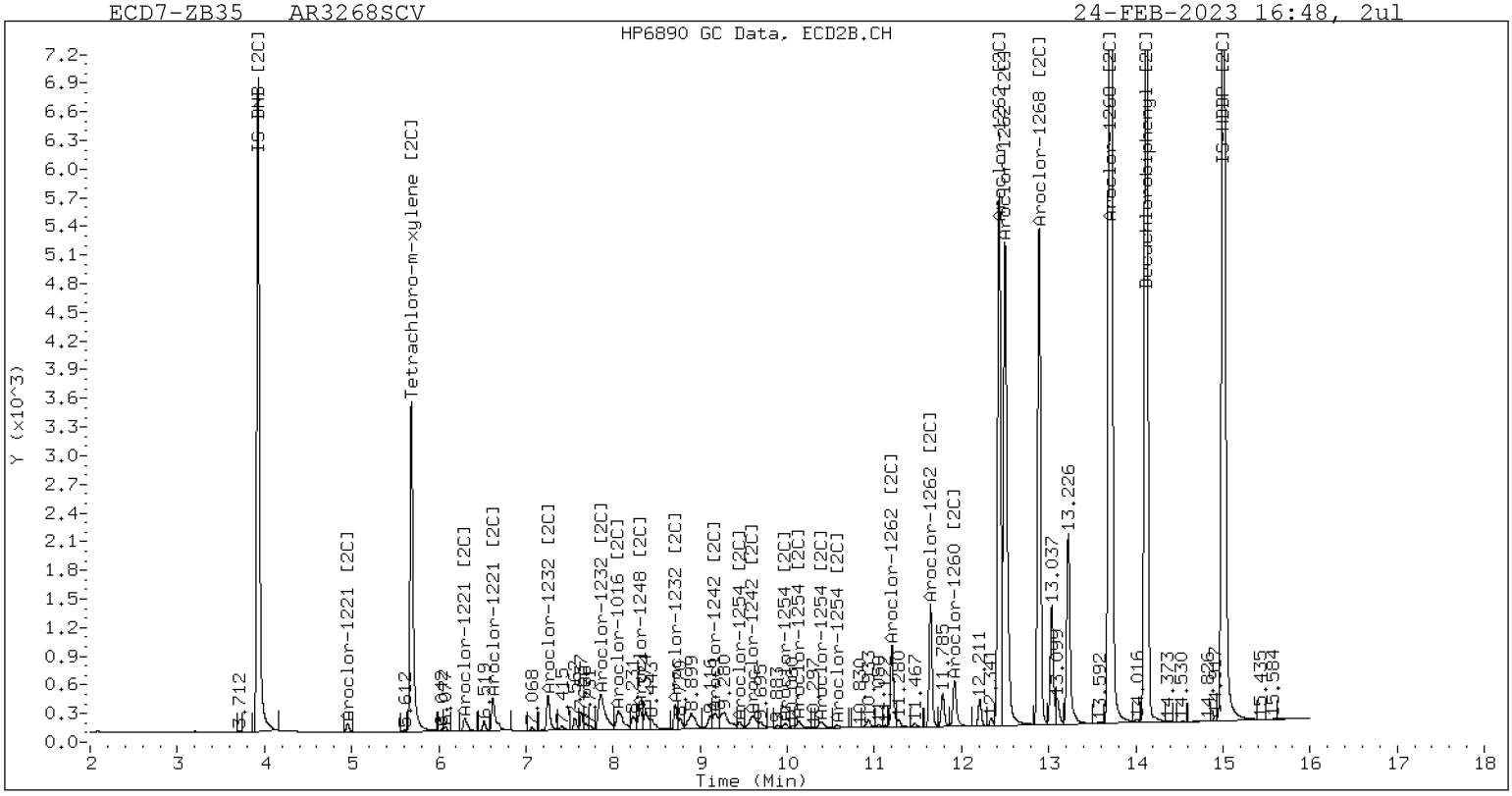
PCB Dual Column Chromatograms

ECD7-ZB5 AR3268SCV 24-FEB-2023 16:48, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR3268SCV 24-FEB-2023 16:48, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
8082 DDT SCREEN REPORT

Data file 1: /230224.b/02242319ECD7.D ARI ID: DDTS

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
9.261	0.000	694353	9.912	0.000	580269	0.100	0.100	0.0	2,4-DDE
0.000	-10.293	0	10.672	0.000	673479	0.000	0.200#	----	2,4-DDT
9.686	0.000	1191406	10.212	0.000	433373	0.100	0.100	0.0	4,4-DDE
10.259	0.000	1721760	10.672	0.000	673479	0.100	0.200#	66.7*	4,4-DDD

# Indicates value is from co-eluting peaks
* Indicates RPD > 40%

Analytical Resources Inc.
8082 DDT SCREEN REPORT

Data file 1: /230224.b/02242320ECD7.D ARI ID: DDT BD

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
9.285	0.023	4923	9.921	0.009	9972	0.001	0.002	84.3*	2,4-DDE
0.000	-10.293	0	10.677	0.004	249094	0.000	0.074#	----	2,4-DDT
9.692	0.006	12128	10.221	0.009	528	0.001	0.000	156.7*	4,4-DDE
10.265	0.006	410017	10.677	0.004	249094	0.023	0.074#	103.6*	4,4-DDD

# Indicates value is from co-eluting peaks
* Indicates RPD > 40%

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GB00069
Laboratory ID: SLB0342-SCV1
Sequence: SLB0342
Sequence Name: AR1660SCV1
Standard ID: L002065

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Aroclor 1016	250.00	243	-2.7	20.00
Aroclor 1016 [2C]	250.00	246	-1.4	20.00
Aroclor 1260	250.00	266	6.2	20.00
Aroclor 1260 [2C]	250.00	261	4.5	20.00
Decachlorobiphenyl	40.000	34.3	-14.2	20.00
Tetrachlorometaxylene	40.000	34.9	-12.6	20.00
Decachlorobiphenyl [2C]	40.000	37.3	-6.6	20.00
Tetrachlorometaxylene [2C]	40.000	35.8	-10.6	20.00

* Indicates values outside of QC limits
[2C] indicates second-column analyte.

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GB00069
Laboratory ID: SLB0342-SCV2
Sequence: SLB0342
Sequence Name: AR1242SCV2
Standard ID: K007656

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Aroclor 1242	250.00	204	-18.5	20.00
Aroclor 1242 [2C]	250.00	221	-11.8	20.00
Decachlorobiphenyl	40.000	37.0	-7.5	20.00
Tetrachlorometaxylene	40.000	33.6	-15.9	20.00
Decachlorobiphenyl [2C]	40.000	40.3	0.8	20.00
Tetrachlorometaxylene [2C]	40.000	34.5	-13.7	20.00

* Indicates values outside of QC limits
[2C] indicates second-column analyte.

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GB00069
Laboratory ID: SLB0342-SCV3
Sequence: SLB0342
Sequence Name: AR1248SCV3
Standard ID: L002066

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Aroclor 1248	250.00	249	-0.2	20.00
Aroclor 1248 [2C]	250.00	248	-0.8	20.00
Decachlorobiphenyl	40.000	33.1	-17.2	20.00
Tetrachlorometaxylene	40.000	34.9	-12.8	20.00
Decachlorobiphenyl [2C]	40.000	36.3	-9.2	20.00
Tetrachlorometaxylene [2C]	40.000	36.4	-9.0	20.00

* Indicates values outside of QC limits
[2C] indicates second-column analyte.

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GB00069
Laboratory ID: SLB0342-SCV4
Sequence: SLB0342
Sequence Name: AR1254SCV4
Standard ID: L002067

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Aroclor 1254	250.00	235	-5.9	20.00
Aroclor 1254 [2C]	250.00	240	-4.0	20.00
Decachlorobiphenyl	40.000	34.6	-13.4	20.00
Tetrachlorometaxylene	40.000	36.1	-9.7	20.00
Decachlorobiphenyl [2C]	40.000	37.9	-5.2	20.00
Tetrachlorometaxylene [2C]	40.000	37.1	-7.3	20.00

* Indicates values outside of QC limits
[2C] indicates second-column analyte.

Analytical Resources, LLC
Analytical Chemists and Consultants

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8082A

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Calibration: GB00069
Sequence: SLB0342

SDG: 23C0071
Project: AOC5 MR Phase 1
Laboratory ID: SLB0342-SCV5
Sequence Name: AR2162SCV5
Standard ID: L002068

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Aroclor 1221	250.00	258	3.3	20.00
Aroclor 1221 [2C]	250.00	256	2.5	20.00
Aroclor 1262	250.00	247	-1.2	20.00
Aroclor 1262 [2C]	250.00	249	-0.3	20.00
Decachlorobiphenyl	40.000	34.4	-13.9	20.00
Tetrachlorometaxylene	40.000	36.0	-10.0	20.00
Decachlorobiphenyl [2C]	40.000	37.9	-5.4	20.00
Tetrachlorometaxylene [2C]	40.000	36.6	-8.4	20.00

* Indicates values outside of QC limits
[2C] indicates second-column analyte.

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GB00069
Laboratory ID: SLB0342-SCV6
Sequence: SLB0342
Sequence Name: AR3268SCV6
Standard ID: L002069

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Aroclor 1232	250.00	245	-2.0	20.00
Aroclor 1232 [2C]	250.00	259	3.4	20.00
Aroclor 1268	250.00	246	-1.4	20.00
Aroclor 1268 [2C]	250.00	249	-0.6	20.00
Decachlorobiphenyl	40.000	51.3	28.3	20.00
Tetrachlorometaxylene	40.000	37.1	-7.3	20.00
Decachlorobiphenyl [2C]	40.000	56.4	41.0	20.00
Tetrachlorometaxylene [2C]	40.000	38.2	-4.6	20.00

* Indicates values outside of QC limits
[2C] indicates second-column analyte.

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD7	Calibration:	GB00069
Lab File ID:	03142302ECD7.D	Calibration Date:	02/24/2023
Sequence:	SLC0203	Injection Date:	03/14/23
Lab Sample ID:	SLC0203-ICV1	Injection Time:	09:51
Sequence Name:	AR1254ICV1		

		CONC. (ug/L)		RESPONSE FACTOR			% DRIFT/DIFF	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
Aroclor 1254	A	250.00	257	0.0662949	0.0675304		3.0	+/-20
Aroclor-1254 (1)	A	250.00	242	0.0803331	0.0778526			
Aroclor-1254 (2)	A	250.00	256	0.0361302	0.0369375			
Aroclor-1254 (3)	A	250.00	250	0.0516471	0.0517310			
Aroclor-1254 (4)	A	250.00	236	0.1004230	0.0949392			
Aroclor-1254 (5)	A	250.00	303	0.0629414	0.0761918			
Aroclor 1254 [2C]	A	250.00	245	0.0763106	0.0747725		-1.8	+/-20
Aroclor-1254 (1) [2C]	A	250.00	249	0.0608052	0.0606326			
Aroclor-1254 (2) [2C]	A	250.00	248	0.0489162	0.0486323			
Aroclor-1254 (3) [2C]	A	250.00	253	0.1058376	0.1069697			
Aroclor-1254 (4) [2C]	A	250.00	233	0.1031750	0.0962046			
Aroclor-1254 (5) [2C]	A	250.00	244	0.0628191	0.0614232			
Decachlorobiphenyl	A	40.000	40.6	0.7878687	0.8007115		1.5	+/-20
Tetrachlorometaxylene	A	40.000	37.8	1.1944880	1.1275770		-5.5	+/-20
Decachlorobiphenyl [2C]	A	40.000	37.8	1.2182710	1.1506600		-5.5	+/-20
Tetrachlorometaxylene [2C]	A	40.000	37.6	1.1737210	1.1026230		-6.0	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230314.b/03142302ECD7.D
Data file 2: /230314.b/230314.b/03142302ECD7.D
Method: \\target\share\chem4\ecd7.i\230314.b\PCB.m
Compound Sublist: AR1254.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254ICV1
Client ID:
Injection Date: 14-MAR-2023 09:51
Report Date: 03/14/2023 16:24
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.808	0.001	243114	5.688	-0.002	189235	37.8	37.6	0.5	Tetrachloro-m-xylene
13.896	0.003	286738	14.120	0.001	272283	40.7	37.8	7.3	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	431215	-36.0
Hexabromobiphenyl	1429847	716208	-49.9

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	343245	8.9
Hexabromobiphenyl	513946	473264	-7.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1254	1	9.301	0.003	104910	242.3	1	9.452	0.000	65037	249.3
Aroclor-1254	2	9.380	0.003	49775	255.6	2	9.973	0.000	52165	248.5
Aroclor-1254	3	9.672	0.004	69710	250.4	3	10.127	0.000	114740	252.7
Aroclor-1254	4	9.811	0.004	127935	236.3	4	10.376	0.000	103193	233.1
Aroclor-1254	5	10.180	0.004	102672	302.6	5	10.573	0.000	65885	244.4

Total Col1Ave (5 peaks): 257.5 Total Col2Ave (5 peaks): 245.6 RPD = 5

Corrected Ave (4 peaks): 246.2 Corrected Ave (4 peaks): 243.8 RPD = 1

CalAmt %D: 3.0 CalAmt %D: -1.8

Total PCB Area Col1 (5.907 - 13.793) = 1457879 Col1 Total PCB = 0.3 ppm*

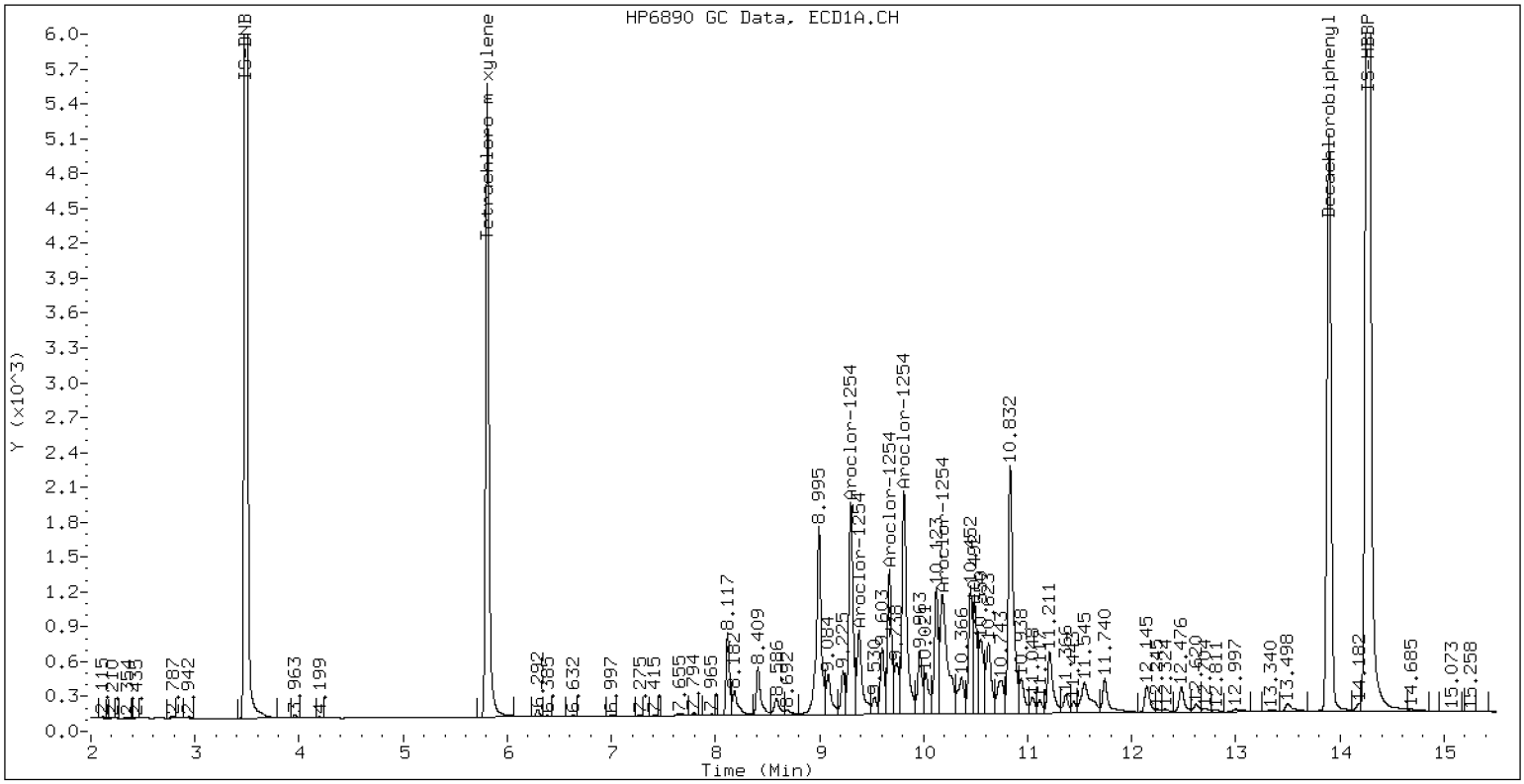
Total PCB Area Col2 (5.790 - 14.019) = 1082625 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

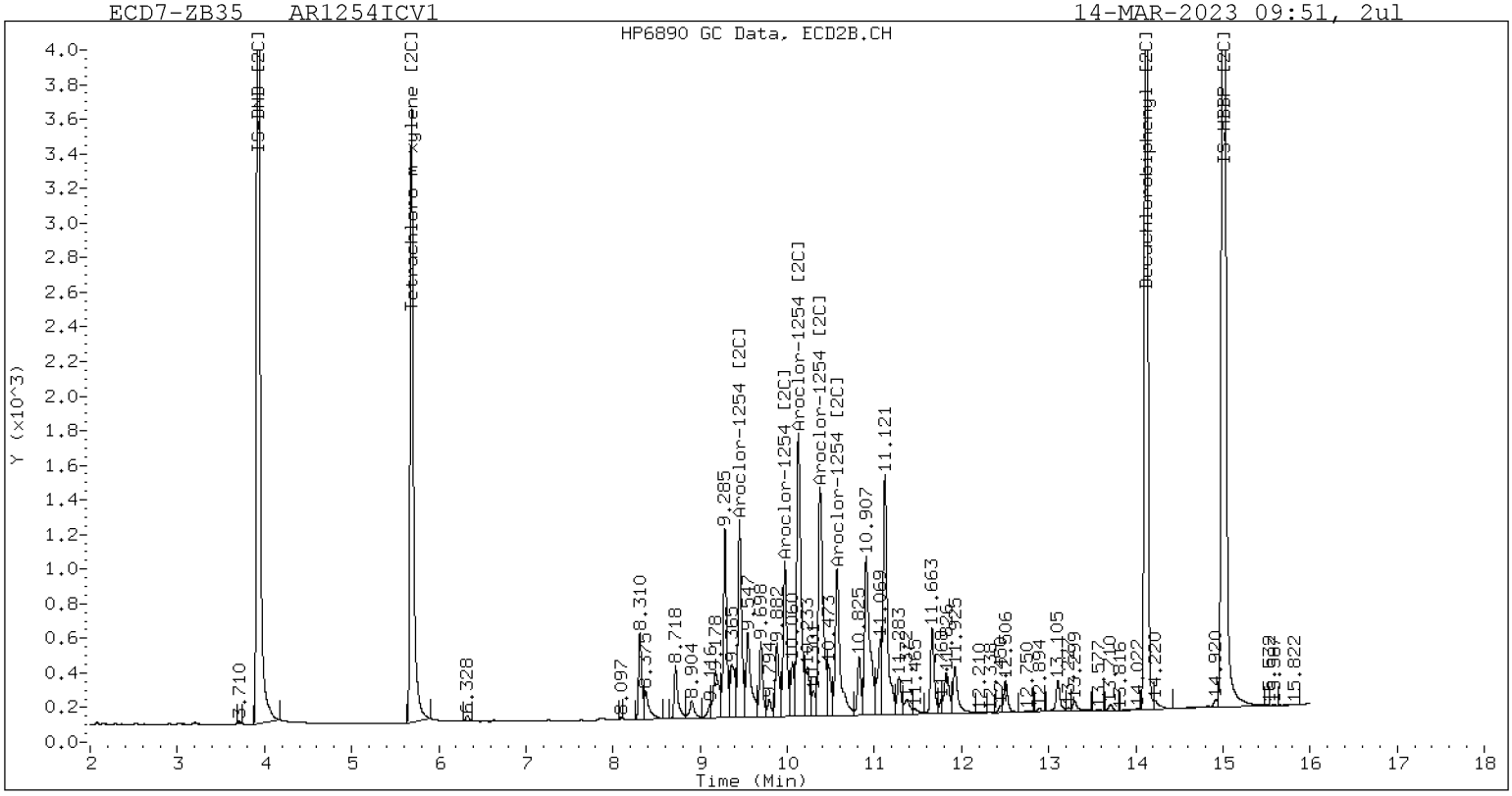
PCB Dual Column Chromatograms

ECD7-ZB5 AR1254ICV1 14-MAR-2023 09:51, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1254ICV1 14-MAR-2023 09:51, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD7	Calibration:	GB00069
Lab File ID:	03142303ECD7.D	Calibration Date:	02/24/2023
Sequence:	SLC0203	Injection Date:	03/14/23
Lab Sample ID:	SLC0203-ICV2	Injection Time:	10:11
Sequence Name:	AR1660ICV2		

		CONC. (ug/L)		RESPONSE FACTOR			% DRIFT/DIFF	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
Aroclor 1016	A	250.00	259	0.0493662	0.0509610		3.7	+/-20
Aroclor-1016 (1)	A	250.00	256	0.0303852	0.0311240		2.4	
Aroclor-1016 (2)	A	250.00	252	0.0926308	0.0935742		0.8	
Aroclor-1016 (3)	A	250.00	271	0.0452180	0.0490010		8.4	
Aroclor-1016 (4)	A	250.00	258	0.0292307	0.0301446		3.2	
Aroclor 1016 [2C]	A	250.00	255	0.0545857	0.0560478		2.1	+/-20
Aroclor-1016 (1) [2C]	A	250.00	242	0.0468313	0.0453939		-3.2	
Aroclor-1016 (2) [2C]	A	250.00	263	0.0949676	0.0999536		5.2	
Aroclor-1016 (3) [2C]	A	250.00	255	0.0428922	0.0437238		2.0	
Aroclor-1016 (4) [2C]	A	250.00	261	0.0336515	0.0351199		4.4	
Aroclor 1260	A	250.00	303	0.0392091	0.0477093		21.1	+/-20 *
Aroclor-1260 (1)	A	250.00	292	0.0287785	0.0335828		16.8	
Aroclor-1260 (2)	A	250.00	323	0.0300690	0.0388602		29.2	
Aroclor-1260 (3)	A	250.00	309	0.0797517	0.0986595		23.6	
Aroclor-1260 (4)	A	250.00	291	0.0401599	0.0467402		16.4	
Aroclor-1260 (5)	A	250.00	299	0.0172866	0.0207037		19.6	
Aroclor 1260 [2C]	A	250.00	255	0.0699688	0.0716748		1.9	+/-20
Aroclor-1260 (1) [2C]	A	250.00	274	0.0470406	0.0515073		9.6	
Aroclor-1260 (2) [2C]	A	250.00	258	0.1200523	0.1238833		3.2	
Aroclor-1260 (3) [2C]	A	250.00	237	0.0318590	0.0302453		-5.2	
Aroclor-1260 (4) [2C]	A	250.00	250	0.0809231	0.0810631		0.0	
Decachlorobiphenyl	A	40.000	42.0	0.7878687	0.8272750		5.0	+/-20
Tetrachlorometaxylene	A	40.000	40.5	1.1944880	1.2106250		1.3	+/-20
Decachlorobiphenyl [2C]	A	40.000	40.0	1.2182710	1.2174580		0.0	+/-20
Tetrachlorometaxylene [2C]	A	40.000	39.7	1.1737210	1.1655690		-0.8	+/-20

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230314.b/03142303ECD7.D
Data file 2: /230314.b/230314.b/03142303ECD7.D
Method: \\target\share\chem4\ecd7.i\230314.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660ICV2
Client ID:
Injection Date: 14-MAR-2023 10:11
Report Date: 03/14/2023 16:24
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.808	0.001	245243	5.689	-0.001	187490	40.5	39.7	2.0	Tetrachloro-m-xylene
13.894	0.001	293451	14.119	-0.000	280243	42.0	40.0	4.9	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	405151	-39.9
Hexabromobiphenyl	1429847	709440	-50.4 <-

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	321714	2.0
Hexabromobiphenyl	513946	460374	-10.4

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.271	0.001	39406	256.1	1	7.256	-0.000	45637	242.3
Aroclor-1016	2	7.660	-0.001	118474	252.5	2	7.867	-0.002	100489	263.1
Aroclor-1016	3	7.795	-0.000	62040	270.9	3	8.065	-0.004	43958	254.8
Aroclor-1016	4	8.408	-0.001	38166	257.8	4	8.311	-0.001	35308	260.9
Total Col1Ave (4 peaks):					259.3	Total Col2Ave (4 peaks):				255.3 RPD = 2
Corrected Ave (3 peaks):					255.5	Corrected Ave (3 peaks):				252.7 RPD = 1
CalAmt %D:					3.7	CalAmt %D:				2.1
Aroclor-1260	1	11.047	-0.001	74453	291.7	1	11.655	-0.001	74102	273.7
Aroclor-1260	2	11.364	-0.001	86153	323.1	2	11.921	-0.002	178227	258.0
Aroclor-1260	3	11.739	-0.001	218728	309.3	3	12.437	-0.003	43513	237.3
Aroclor-1260	4	12.144	-0.003	103623	291.0	4	12.504	-0.003	116623	250.4
Aroclor-1260	5	12.246	-0.001	45900	299.4	NS	---			----
Total Col1Ave (5 peaks):					302.9	Total Col2Ave (4 peaks):				254.9 RPD = 17
Corrected Ave (4 peaks):					297.8	Corrected Ave (3 peaks):				248.6 RPD = 18
CalAmt %D:					21.2	CalAmt %D:				1.9

Total PCB Area Col1 (5.907 - 13.793) = 2368746 Col1 Total PCB = 0.5 ppm*

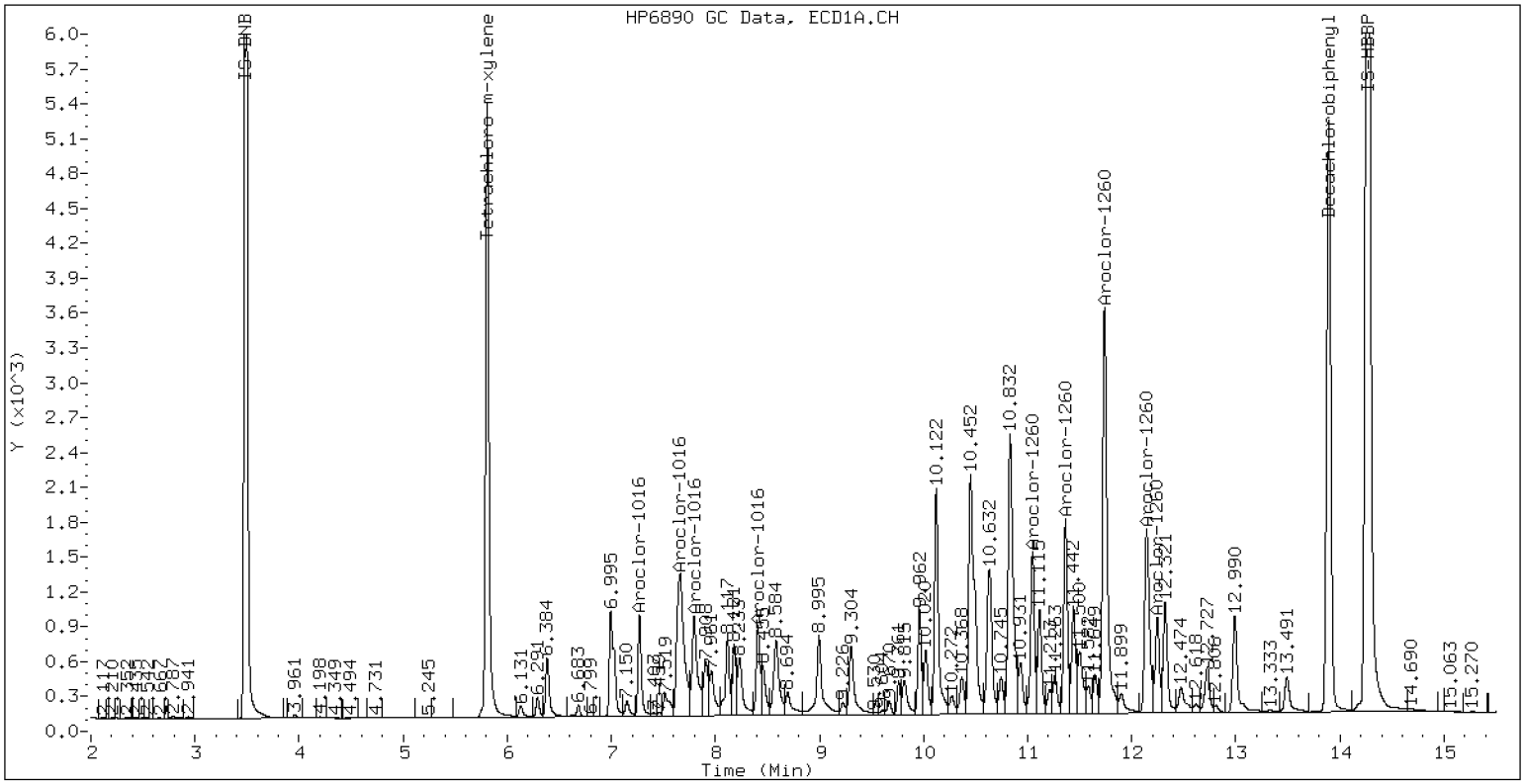
Total PCB Area Col2 (5.790 - 14.019) = 1779992 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

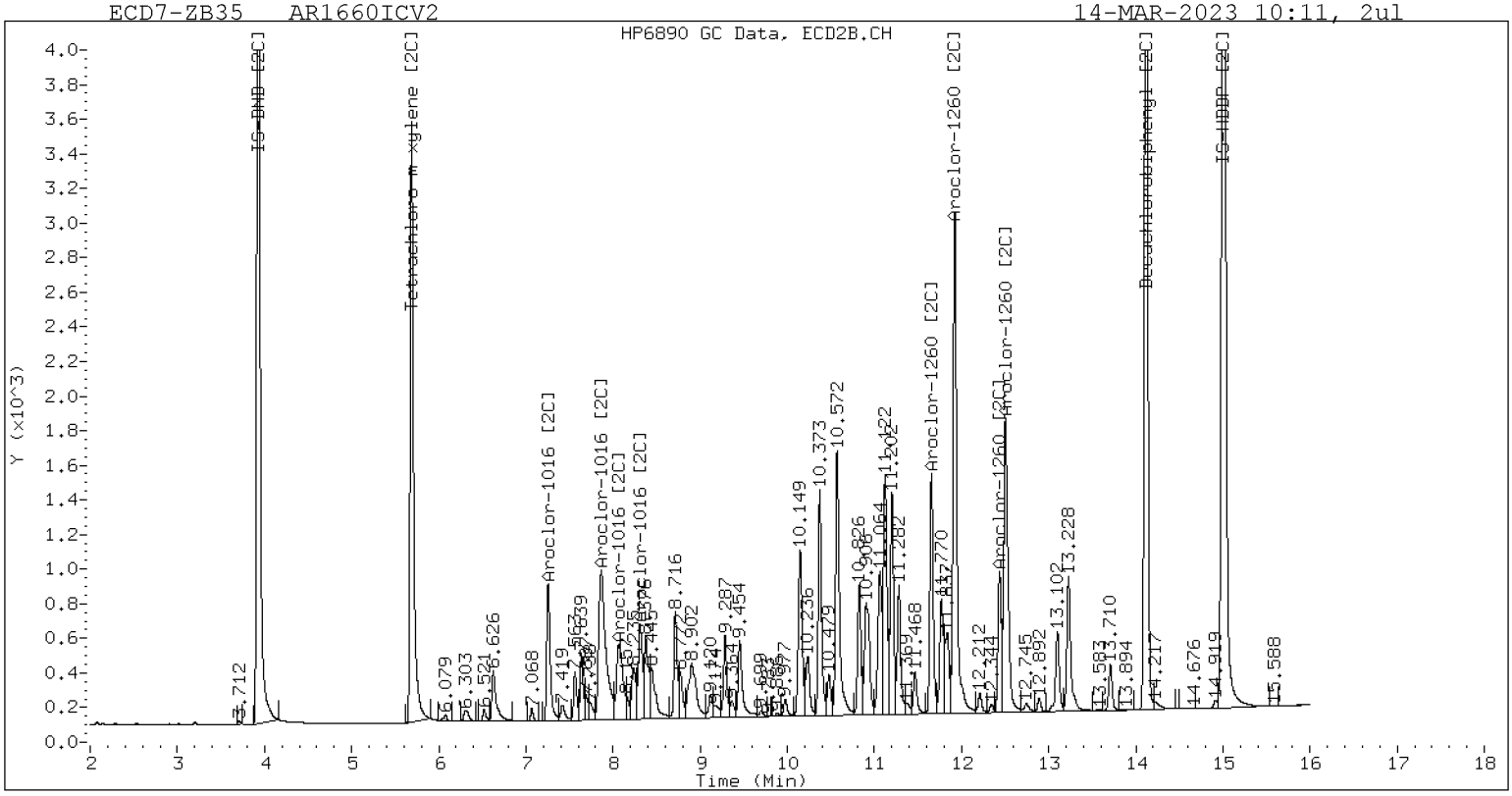
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660ICV2 14-MAR-2023 10:11, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660ICV2 14-MAR-2023 10:11, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

SECOND-SOURCE
CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD7	Calibration:	GB00069
Lab File ID:	02242313ECD7.D	Calibration Date:	02/24/2023
Sequence:	SLB0342	Injection Date:	02/24/23
Lab Sample ID:	SLB0342-SCV1	Injection Time:	15:03
Sequence Name:	AR1660SCV1		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1016	A	250.00	243	0.0493662	0.0479314		-2.7	+/-20
Aroclor 1016 [2C]	A	250.00	246	0.0545857	0.0542382		-1.4	+/-20
Aroclor 1260	A	250.00	266	0.0392091	0.0412121		6.2	+/-20
Aroclor 1260 [2C]	A	250.00	261	0.0699688	0.0733659		4.5	+/-20
Decachlorobiphenyl	A	40.000	34.3	0.7878687	0.6762784		-14.2	+/-20
Tetrachlorometaxylene	A	40.000	34.9	1.1944880	1.0436010		-12.6	+/-20
Decachlorobiphenyl [2C]	A	40.000	37.3	1.2182710	1.1373730		-6.6	+/-20
Tetrachlorometaxylene [2C]	A	40.000	35.8	1.1737210	1.0492890		-10.6	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

SECOND-SOURCE
CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD7	Calibration:	GB00069
Lab File ID:	02242314ECD7.D	Calibration Date:	02/24/2023
Sequence:	SLB0342	Injection Date:	02/24/23
Lab Sample ID:	SLB0342-SCV2	Injection Time:	15:24
Sequence Name:	AR1242SCV2		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1242	A	250.00	204	0.0395340	0.0322254		-18.5	+/-20
Aroclor 1242 [2C]	A	250.00	221	0.0423092	0.0365983		-11.8	+/-20
Decachlorobiphenyl	A	40.000	37.0	0.7878687	0.7290534		-7.5	+/-20
Tetrachlorometaxylene	A	40.000	33.6	1.1944880	1.0041320		-15.9	+/-20
Decachlorobiphenyl [2C]	A	40.000	40.3	1.2182710	1.2285170		0.8	+/-20
Tetrachlorometaxylene [2C]	A	40.000	34.5	1.1737210	1.0131510		-13.7	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

SECOND-SOURCE
CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD7	Calibration:	GB00069
Lab File ID:	02242315ECD7.D	Calibration Date:	02/24/2023
Sequence:	SLB0342	Injection Date:	02/24/23
Lab Sample ID:	SLB0342-SCV3	Injection Time:	15:45
Sequence Name:	AR1248SCV3		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1248	A	250.00	249	0.0574755	0.0572474		-0.2	+/-20
Aroclor 1248 [2C]	A	250.00	248	0.0444270	0.0440936		-0.8	+/-20
Decachlorobiphenyl	A	40.000	33.1	0.7878687	0.6527336		-17.2	+/-20
Tetrachlorometaxylene	A	40.000	34.9	1.1944880	1.0413820		-12.8	+/-20
Decachlorobiphenyl [2C]	A	40.000	36.3	1.2182710	1.1066400		-9.2	+/-20
Tetrachlorometaxylene [2C]	A	40.000	36.4	1.1737210	1.0676190		-9.0	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

SECOND-SOURCE
CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD7	Calibration:	GB00069
Lab File ID:	02242316ECD7.D	Calibration Date:	02/24/2023
Sequence:	SLB0342	Injection Date:	02/24/23
Lab Sample ID:	SLB0342-SCV4	Injection Time:	16:06
Sequence Name:	AR1254SCV4		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1254	A	250.00	235	0.0662949	0.0622529		-5.9	+/-20
Aroclor 1254 [2C]	A	250.00	240	0.0763106	0.0731447		-4.0	+/-20
Decachlorobiphenyl	A	40.000	34.6	0.7878687	0.6823832		-13.4	+/-20
Tetrachlorometaxylene	A	40.000	36.1	1.1944880	1.0787610		-9.7	+/-20
Decachlorobiphenyl [2C]	A	40.000	37.9	1.2182710	1.1548440		-5.2	+/-20
Tetrachlorometaxylene [2C]	A	40.000	37.1	1.1737210	1.0880920		-7.3	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

SECOND-SOURCE
CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD7	Calibration:	GB00069
Lab File ID:	02242317ECD7.D	Calibration Date:	02/24/2023
Sequence:	SLB0342	Injection Date:	02/24/23
Lab Sample ID:	SLB0342-SCV5	Injection Time:	16:27
Sequence Name:	AR2162SCV5		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1221	A	250.00	258	0.0165758	0.0169561		3.3	+/-20
Aroclor 1221 [2C]	A	250.00	256	0.0150798	0.0153801		2.5	+/-20
Aroclor 1262	A	250.00	247	0.0366596	0.0361658		-1.2	+/-20
Aroclor 1262 [2C]	A	250.00	249	0.0739760	0.0737876		-0.3	+/-20
Decachlorobiphenyl	A	40.000	34.4	0.7878687	0.6780614		-13.9	+/-20
Tetrachlorometaxylene	A	40.000	36.0	1.1944880	1.0756080		-10.0	+/-20
Decachlorobiphenyl [2C]	A	40.000	37.9	1.2182710	1.1528740		-5.4	+/-20
Tetrachlorometaxylene [2C]	A	40.000	36.6	1.1737210	1.0753820		-8.4	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

SECOND-SOURCE
CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD7	Calibration:	GB00069
Lab File ID:	02242318ECD7.D	Calibration Date:	02/24/2023
Sequence:	SLB0342	Injection Date:	02/24/23
Lab Sample ID:	SLB0342-SCV6	Injection Time:	16:48
Sequence Name:	AR3268SCV6		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1232	A	250.00	245	0.0169039	0.0169981		-2.0	+/-20
Aroclor 1232 [2C]	A	250.00	259	0.0192023	0.0199392		3.4	+/-20
Aroclor 1268	A	250.00	246	0.1442124	0.1418626		-1.4	+/-20
Aroclor 1268 [2C]	A	250.00	249	0.2386862	0.2369075		-0.6	+/-20
Decachlorobiphenyl	A	40.000	51.3	0.7878687	1.0108790		28.3	+/-20
Tetrachlorometaxylene	A	40.000	37.1	1.1944880	1.1067180		-7.3	+/-20
Decachlorobiphenyl [2C]	A	40.000	56.4	1.2182710	1.7182840		41.0	+/-20
Tetrachlorometaxylene [2C]	A	40.000	38.2	1.1737210	1.1196760		-4.6	+/-20

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD7	Calibration:	GB00069
Lab File ID:	03142309ECD7.D	Calibration Date:	02/24/2023
Sequence:	SLC0203	Injection Date:	03/14/23
Lab Sample ID:	SLC0203-CCV1	Injection Time:	12:17
Sequence Name:	AR1248CCV1		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1248	A	250.00	242	0.0574755	0.0561453		-3.4	+/-20
Aroclor-1248 (1)	A	250.00	235		0.0366815			
Aroclor-1248 (2)	A	250.00	240		0.0476797			
Aroclor-1248 (3)	A	250.00	253		0.0947728			
Aroclor-1248 (4)	A	250.00	238		0.0454473			
Aroclor 1248 [2C]	A	250.00	230	0.0444270	0.0407373		-8.2	+/-20
Aroclor-1248 (1) [2C]	A	250.00	229		0.0349667			
Aroclor-1248 (2) [2C]	A	250.00	236		0.0373524			
Aroclor-1248 (3) [2C]	A	250.00	227		0.0412153			
Aroclor-1248 (4) [2C]	A	250.00	226		0.0494147			
Decachlorobiphenyl	A	40.000	38.1	0.7878687	0.7512431		-4.8	+/-20
Tetrachlorometaxylene	A	40.000	36.9	1.1944880	1.1016760		-7.8	+/-20
Decachlorobiphenyl [2C]	A	40.000	38.1	1.2182710	1.1613650		-4.8	+/-20
Tetrachlorometaxylene [2C]	A	40.000	37.4	1.1737210	1.0976230		-6.5	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230314.b/03142309ECD7.D
Data file 2: /230314.b/230314.b/03142309ECD7.D
Method: \\target\share\chem4\ecd7.i\230314.b\PCB.m
Compound Sublist: AR1248.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1248CCV1
Client ID:
Injection Date: 14-MAR-2023 12:17
Report Date: 03/14/2023 16:24
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.807	0.000	237664	5.690	-0.000	186535	36.9	37.4	1.4	Tetrachloro-m-xylene
13.893	0.000	253297	14.120	0.001	273304	38.1	38.1	0.0	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	431459	-36.0
Hexabromobiphenyl	1429847	674341	-52.8 <-

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	339889	7.8
Hexabromobiphenyl	513946	470660	-8.4

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1248	1	8.408	0.000	49458	234.9	1	8.311	0.000	37140	228.9
Aroclor-1248	2	8.584	0.000	64287	240.2	2	8.718	0.000	39674	236.4
Aroclor-1248	3	8.996	0.000	127783	253.1	3	9.179	0.000	43777	226.7
Aroclor-1248	4	9.289	0.000	61277	238.4	4	9.603	0.000	52486	226.4
Total Col1Ave (4 peaks):					241.7	Total Col2Ave (4 peaks):				229.6 RPD = 5
Corrected Ave (3 peaks):					237.9	Corrected Ave (3 peaks):				227.3 RPD = 5
CalAmt %D:					-3.3	CalAmt %D:				-8.2

Total PCB Area Col1 (5.907 - 13.793) = 1000940 Col1 Total PCB = 0.2 ppm*

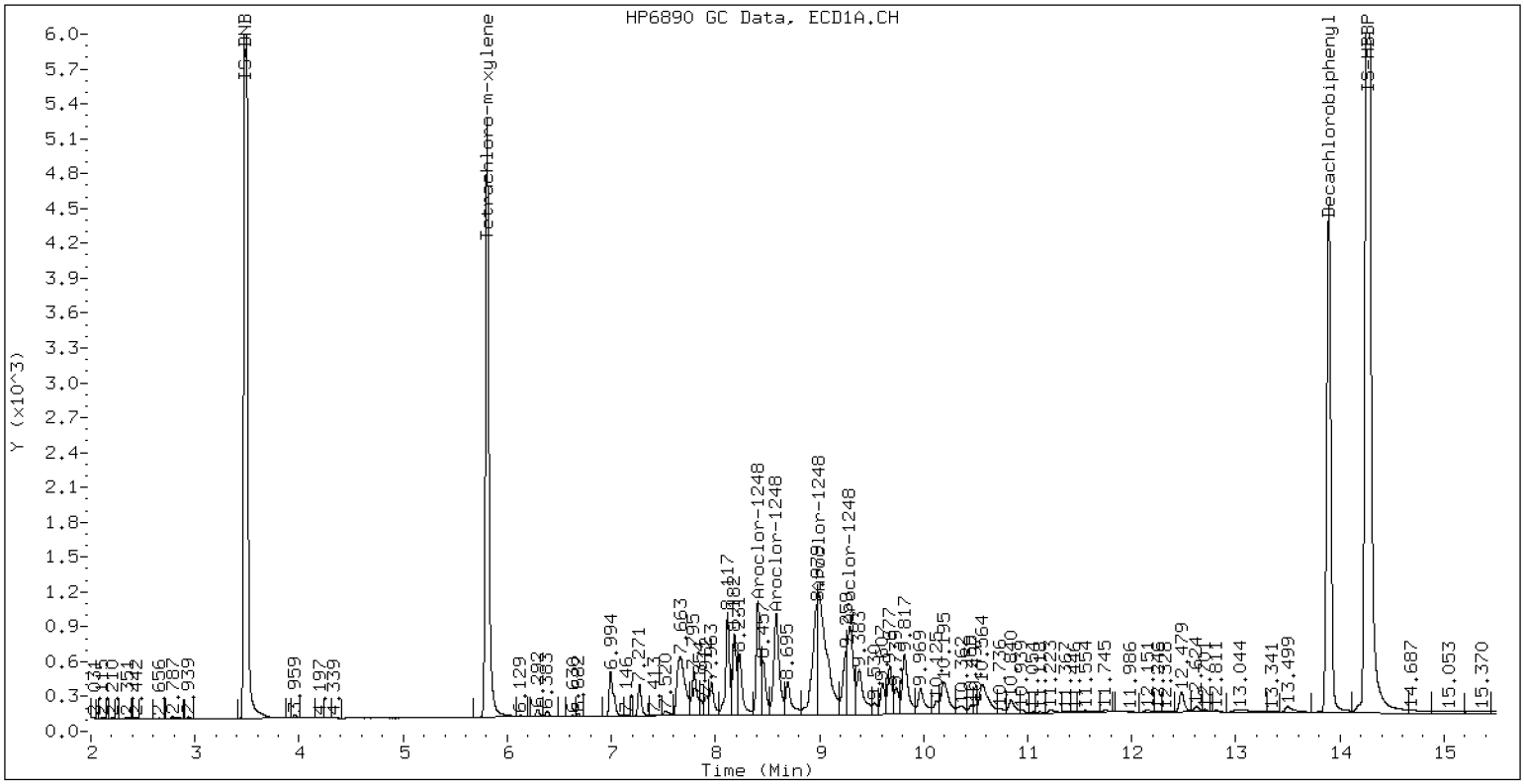
Total PCB Area Col2 (5.790 - 14.019) = 754529 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

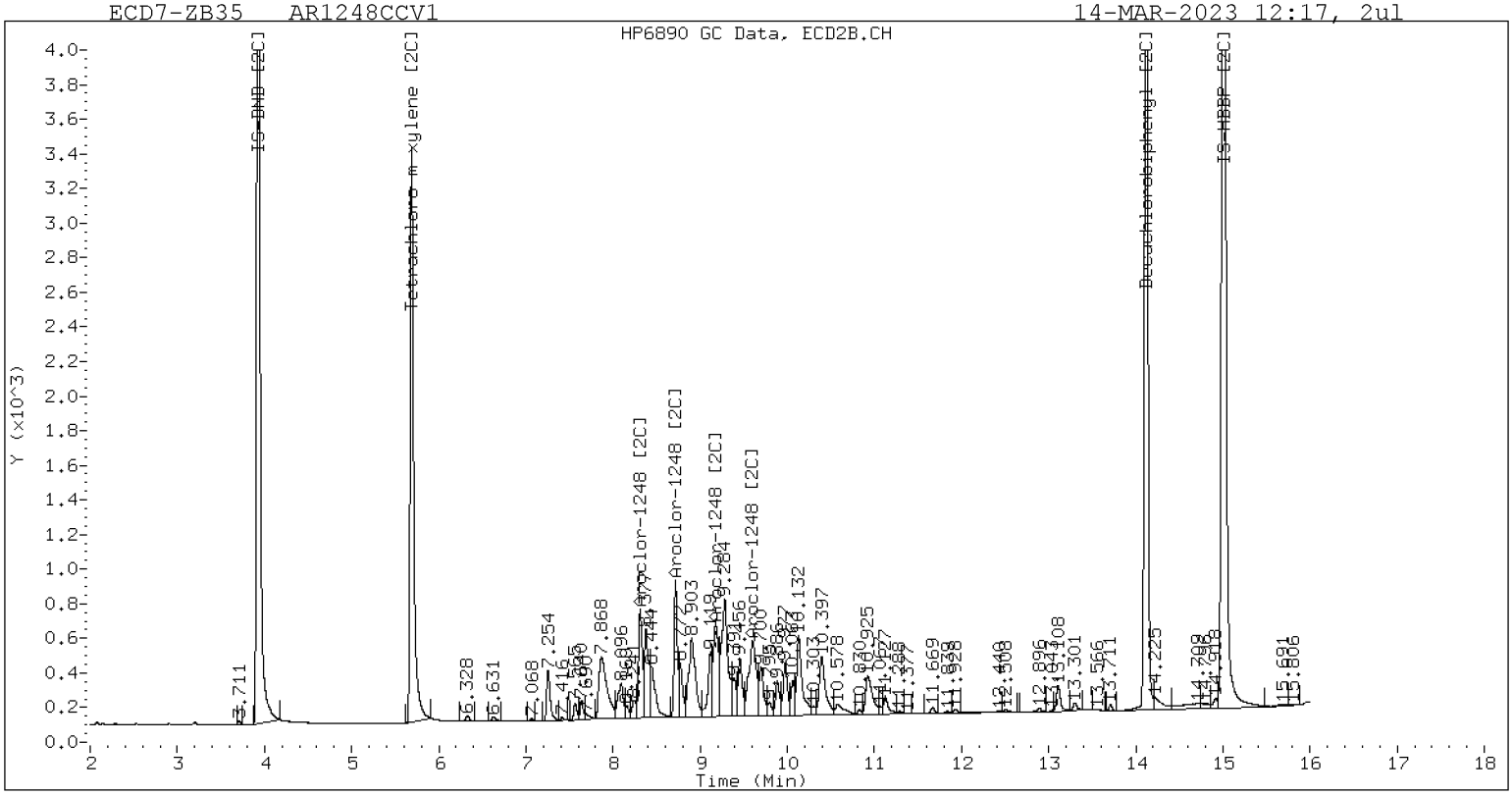
PCB Dual Column Chromatograms

ECD7-ZB5 AR1248CCV1 14-MAR-2023 12:17, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 AR1248CCV1 14-MAR-2023 12:17, 2ul

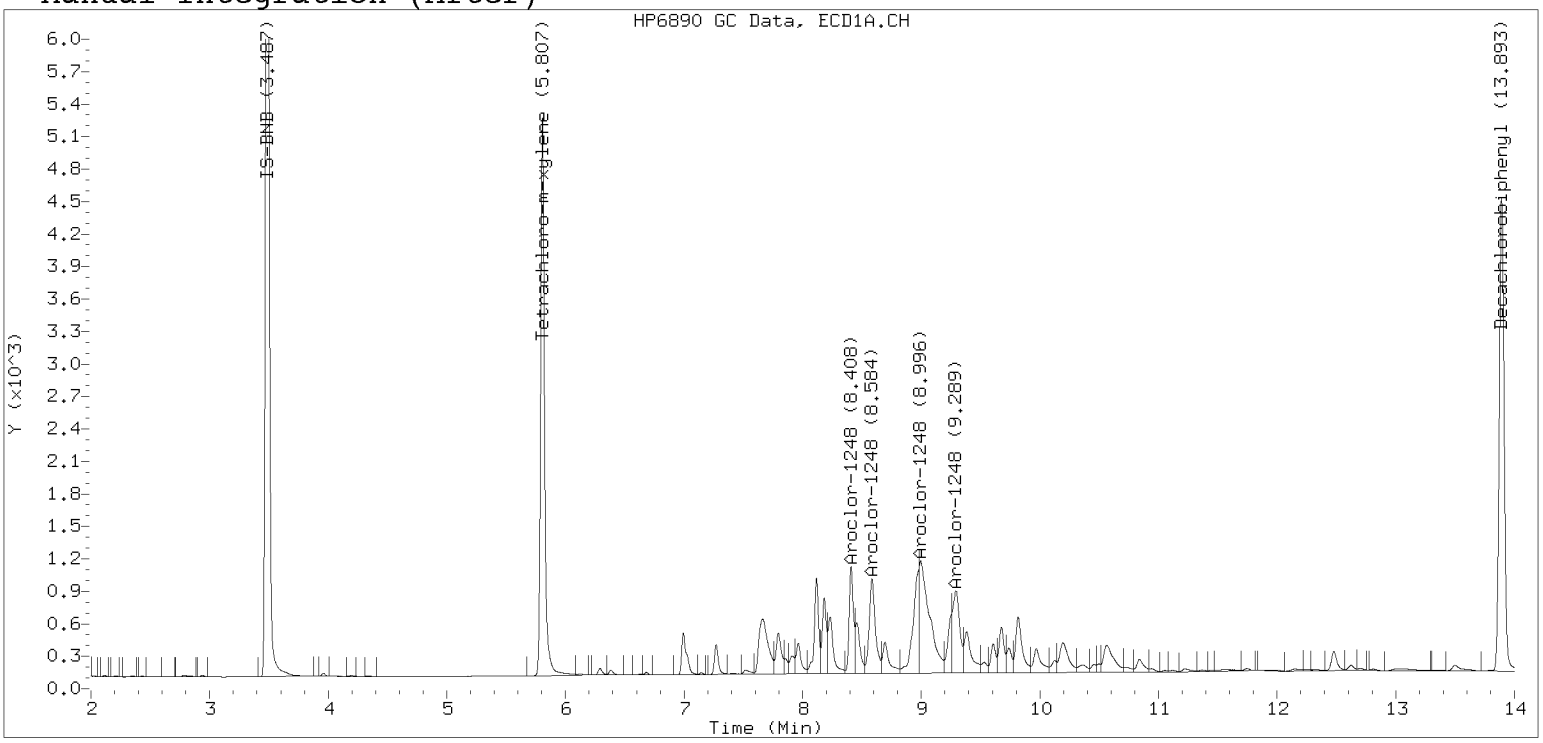


ZB-35 Manual Integration: NO

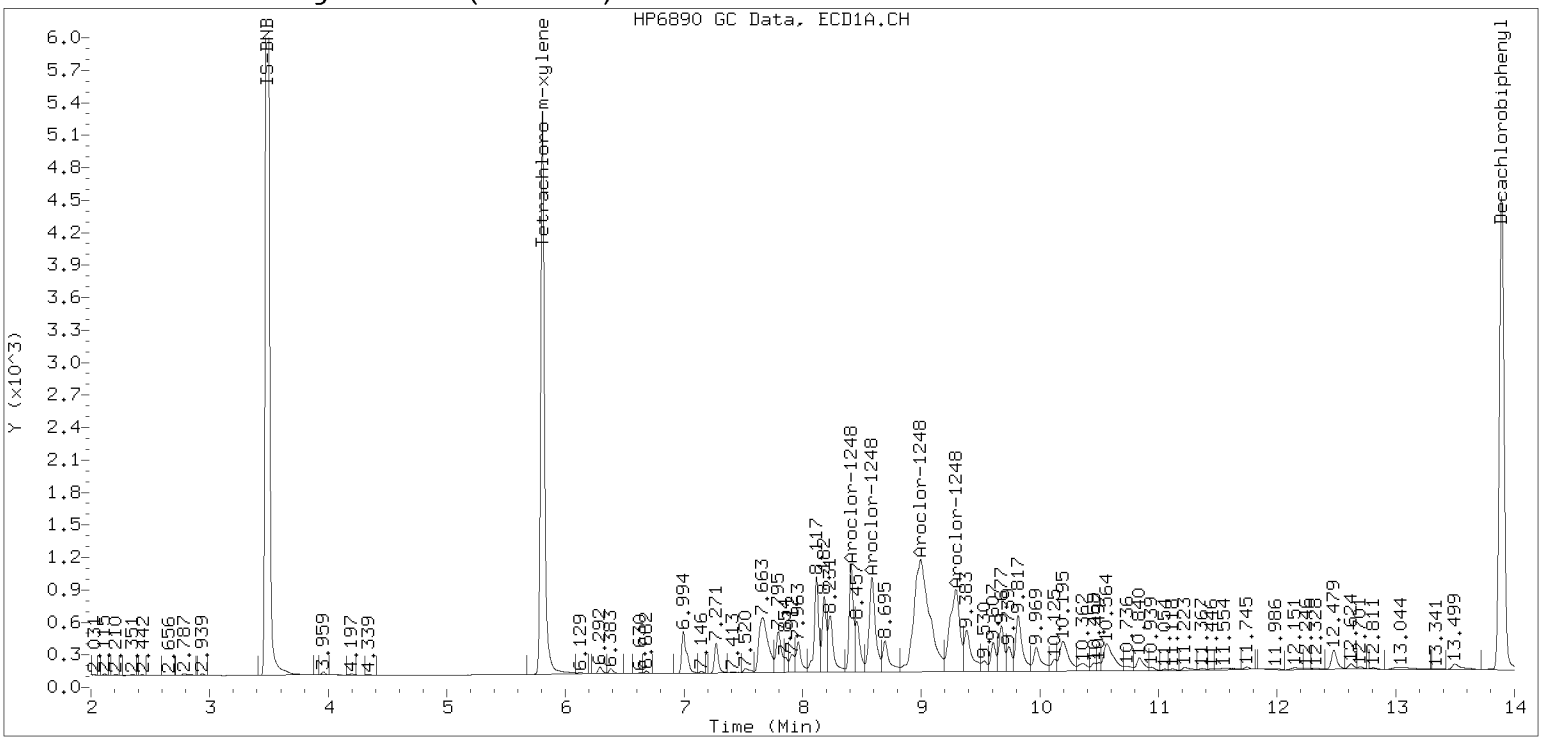
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230314.b/03142309ECD7.D Injection Date: 14-MAR-2023 12:17

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD7	Calibration:	GB00069
Lab File ID:	03142310ECD7.D	Calibration Date:	02/24/2023
Sequence:	SLC0203	Injection Date:	03/14/23
Lab Sample ID:	SLC0203-CCV2	Injection Time:	12:37
Sequence Name:	AR1660CCV2		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1016	A	250.00	293	0.0493662	0.0542941		17.1	+/-20
Aroclor-1016 (1)	A	250.00	252	0.0303852	0.0306709		0.8	
Aroclor-1016 (2)	A	250.00	245	0.0926308	0.0907687		-2.0	
Aroclor-1016 (3)	A	250.00	265	0.0452180	0.0479193		6.0	
Aroclor-1016 (4)	A	250.00	409	0.0292307	0.0478175		63.6	
Aroclor 1016 [2C]	A	250.00	259	0.0545857	0.0562870		3.6	+/-20
Aroclor-1016 (1) [2C]	A	250.00	239	0.0468313	0.0447028		-4.4	
Aroclor-1016 (2) [2C]	A	250.00	256	0.0949676	0.0971297		2.4	
Aroclor-1016 (3) [2C]	A	250.00	286	0.0428922	0.0490107		14.4	
Aroclor-1016 (4) [2C]	A	250.00	255	0.0336515	0.0343046		2.0	
Aroclor 1260	A	250.00	292	0.0392091	0.0459202		16.6	+/-20
Aroclor-1260 (1)	A	250.00	276	0.0287785	0.0317433		10.4	
Aroclor-1260 (2)	A	250.00	309	0.0300690	0.0371726		23.6	
Aroclor-1260 (3)	A	250.00	299	0.0797517	0.0954267		19.6	
Aroclor-1260 (4)	A	250.00	279	0.0401599	0.0448370		11.6	
Aroclor-1260 (5)	A	250.00	295	0.0172866	0.0204213		18.0	
Aroclor 1260 [2C]	A	250.00	250	0.0699688	0.0700936		-0.2	+/-20
Aroclor-1260 (1) [2C]	A	250.00	265	0.0470406	0.0498463		6.0	
Aroclor-1260 (2) [2C]	A	250.00	249	0.1200523	0.1197847		-0.4	
Aroclor-1260 (3) [2C]	A	250.00	234	0.0318590	0.0297610		-6.4	
Aroclor-1260 (4) [2C]	A	250.00	250	0.0809231	0.0809823		0.0	
Decachlorobiphenyl	A	40.000	40.5	0.7878687	0.7981906		1.3	+/-20
Tetrachlorometaxylene	A	40.000	39.5	1.1944880	1.1806580		-1.3	+/-20
Decachlorobiphenyl [2C]	A	40.000	40.6	1.2182710	1.2351530		1.5	+/-20
Tetrachlorometaxylene [2C]	A	40.000	38.9	1.1737210	1.1420280		-2.8	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230314.b/03142310ECD7.D
Data file 2: /230314.b/230314.b/03142310ECD7.D
Method: \\target\share\chem4\ecd7.i\230314.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCV2
Client ID:
Injection Date: 14-MAR-2023 12:37
Report Date: 03/14/2023 16:24
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.807	0.001	243235	5.689	-0.001	185656	39.5	38.9	1.6	Tetrachloro-m-xylene
13.894	0.001	293446	14.120	0.001	295955	40.5	40.6	0.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	412033	-38.8
Hexabromobiphenyl	1429847	735278	-48.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	325134	3.1
Hexabromobiphenyl	513946	479220	-6.8

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.271	0.000	39492	252.4	1	7.257	0.000	45420	238.6
Aroclor-1016	2	7.661	0.000	116874	245.0	2	7.869	-0.000	98688	255.7
Aroclor-1016	3	7.796	0.000	61701	264.9	3	8.068	-0.001	49797	285.7
Aroclor-1016	4	8.409	0.000	61570	409.0	4	8.312	0.000	34855	254.9
Total Col1Ave (4 peaks):					292.8	Total Col2Ave (4 peaks):				258.7 RPD = 12
Corrected Ave (3 peaks):					254.1	Corrected Ave (3 peaks):				249.7 RPD = 2
CalAmt %D:					17.1	CalAmt %D:				3.5
Aroclor-1260	1	11.049	0.000	72938	275.8	1	11.656	-0.001	74648	264.9
Aroclor-1260	2	11.365	0.000	85413	309.1	2	11.924	0.001	179385	249.4
Aroclor-1260	3	11.740	0.000	219266	299.1	3	12.439	-0.001	44569	233.5
Aroclor-1260	4	12.147	0.000	103024	279.1	4	12.506	-0.001	121276	250.2
Aroclor-1260	5	12.247	0.000	46923	295.3	NS	---			----
Total Col1Ave (5 peaks):					291.7	Total Col2Ave (4 peaks):				249.5 RPD = 16
Corrected Ave (4 peaks):					287.3	Corrected Ave (3 peaks):				244.4 RPD = 16
CalAmt %D:					16.7	CalAmt %D:				-0.2

Total PCB Area Col1 (5.907 - 13.793) = 2381161 Col1 Total PCB = 0.5 ppm*

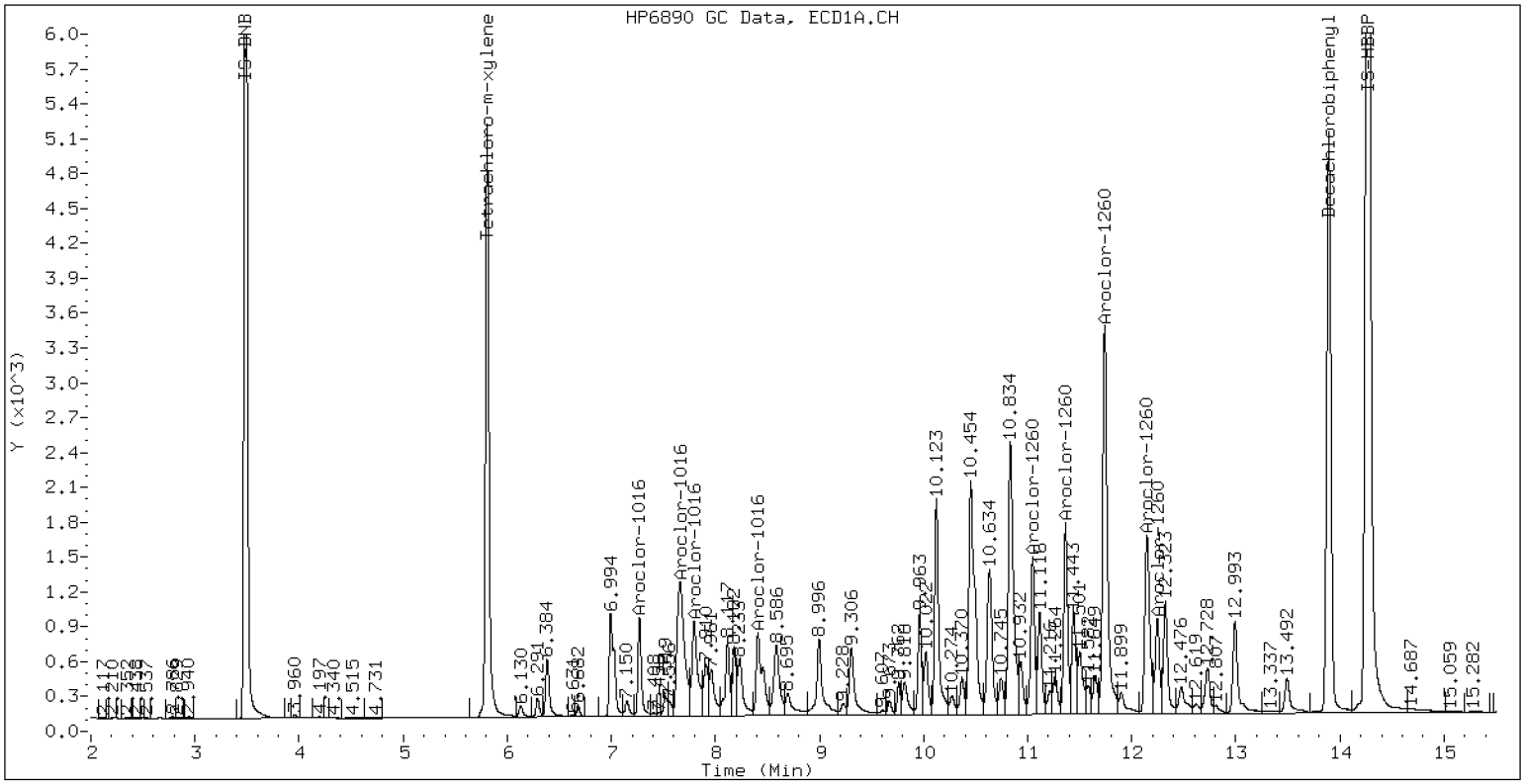
Total PCB Area Col2 (5.790 - 14.019) = 1770252 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

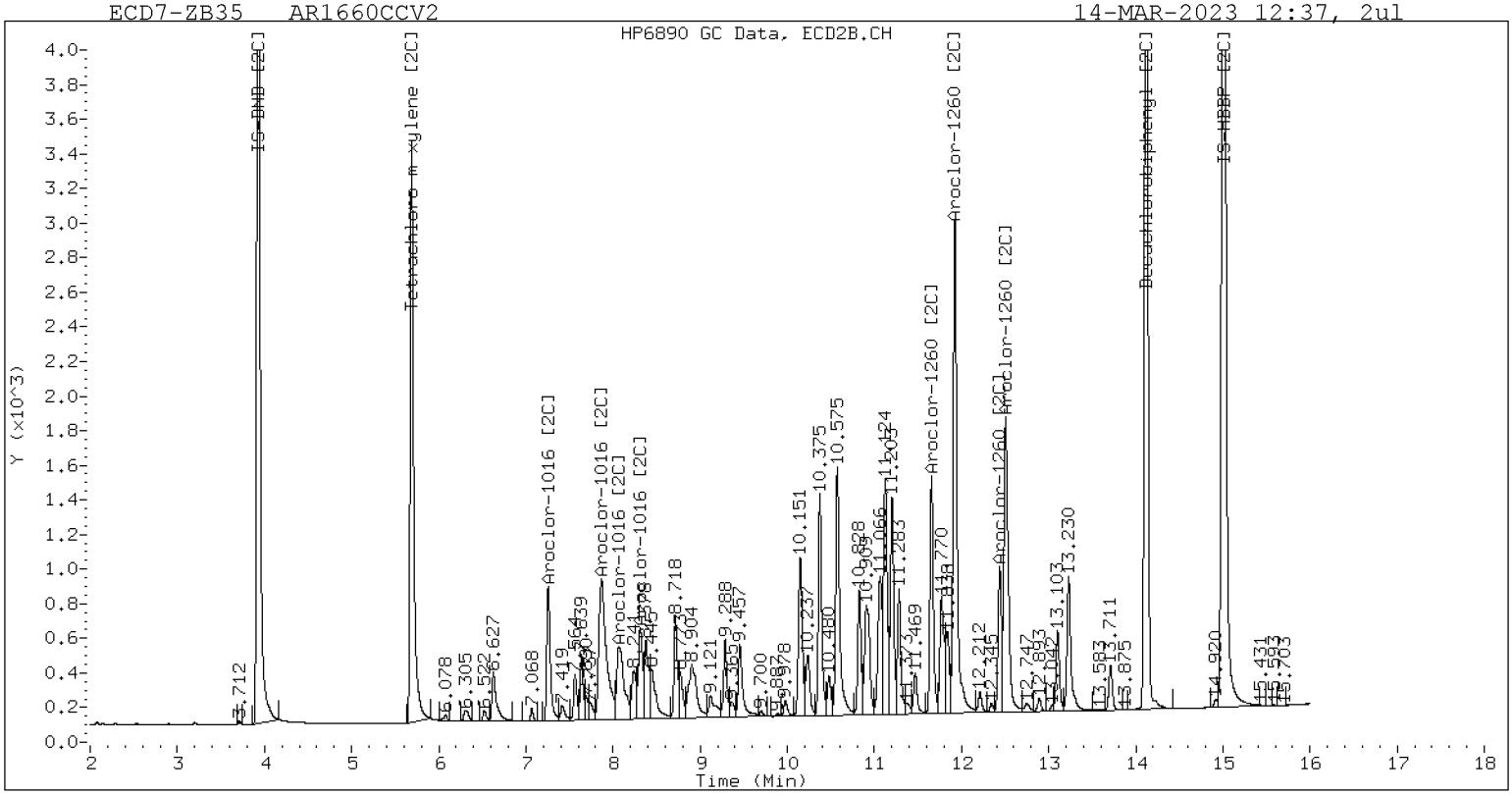
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV2 14-MAR-2023 12:37, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCV2 14-MAR-2023 12:37, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD7	Calibration:	GB00069
Lab File ID:	03142316ECD7.D	Calibration Date:	02/24/2023
Sequence:	SLC0203	Injection Date:	03/14/23
Lab Sample ID:	SLC0203-CCV3	Injection Time:	14:43
Sequence Name:	AR1242CCV3		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1242	A	250.00	232	0.0395340	0.0366316		-7.1	+/-20
Aroclor-1242 (1)	A	250.00	245		0.0243392			
Aroclor-1242 (2)	A	250.00	231		0.0696044			
Aroclor-1242 (3)	A	250.00	226		0.0211841			
Aroclor-1242 (4)	A	250.00	227		0.0313988			
Aroclor 1242 [2C]	A	250.00	223	0.0423092	0.0379749		-11.0	+/-20
Aroclor-1242 (1) [2C]	A	250.00	234		0.0348354			
Aroclor-1242 (2) [2C]	A	250.00	227		0.0709556			
Aroclor-1242 (3) [2C]	A	250.00	220		0.0213827			
Aroclor-1242 (4) [2C]	A	250.00	209		0.0247259			
Decachlorobiphenyl	A	40.000	38.8	0.7878687	0.7647164		-3.0	+/-20
Tetrachlorometaxylene	A	40.000	45.6	1.1944880	1.3605610		14.0	+/-20
Decachlorobiphenyl [2C]	A	40.000	37.3	1.2182710	1.1360450		-6.8	+/-20
Tetrachlorometaxylene [2C]	A	40.000	45.2	1.1737210	1.3279420		13.0	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230314.b/03142316ECD7.D
Data file 2: /230314.b/230314.b/03142316ECD7.D
Method: \\target\share\chem4\ecd7.i\230314.b\PCB.m
Compound Sublist: AR1242.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1242CCV3
Client ID:
Injection Date: 14-MAR-2023 14:43
Report Date: 03/14/2023 16:24
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.807	0.000	288471	5.688	-0.002	226375	45.6	45.3	0.7	Tetrachloro-m-xylene
13.894	0.001	168381	14.120	0.001	201126	38.8	37.3	4.0	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	424047	-37.1
Hexabromobiphenyl	1429847	440375	-69.2 <-

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	340941	8.1
Hexabromobiphenyl	513946	354081	-31.1

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1242	1	7.270	-0.000	32253	245.4	1	7.256	0.000	37115	234.3
Aroclor-1242	2	7.664	0.008	92236	231.1	2	7.869	0.000	75599	227.0
Aroclor-1242	3	8.409	0.004	28072	226.1	3	9.180	0.000	22782	219.9
Aroclor-1242	4	8.586	0.007	41608	226.7	4	9.612	0.000	26344	208.7
Total Col1Ave (4 peaks):					232.3	Total Col2Ave (4 peaks):				222.5 RPD = 4
Corrected Ave (3 peaks):					228.0	Corrected Ave (3 peaks):				218.5 RPD = 4
CalAmt %D:					-7.1	CalAmt %D:				-11.0

Total PCB Area Col1 (5.907 - 13.793) = 748222 Col1 Total PCB = 0.1 ppm*

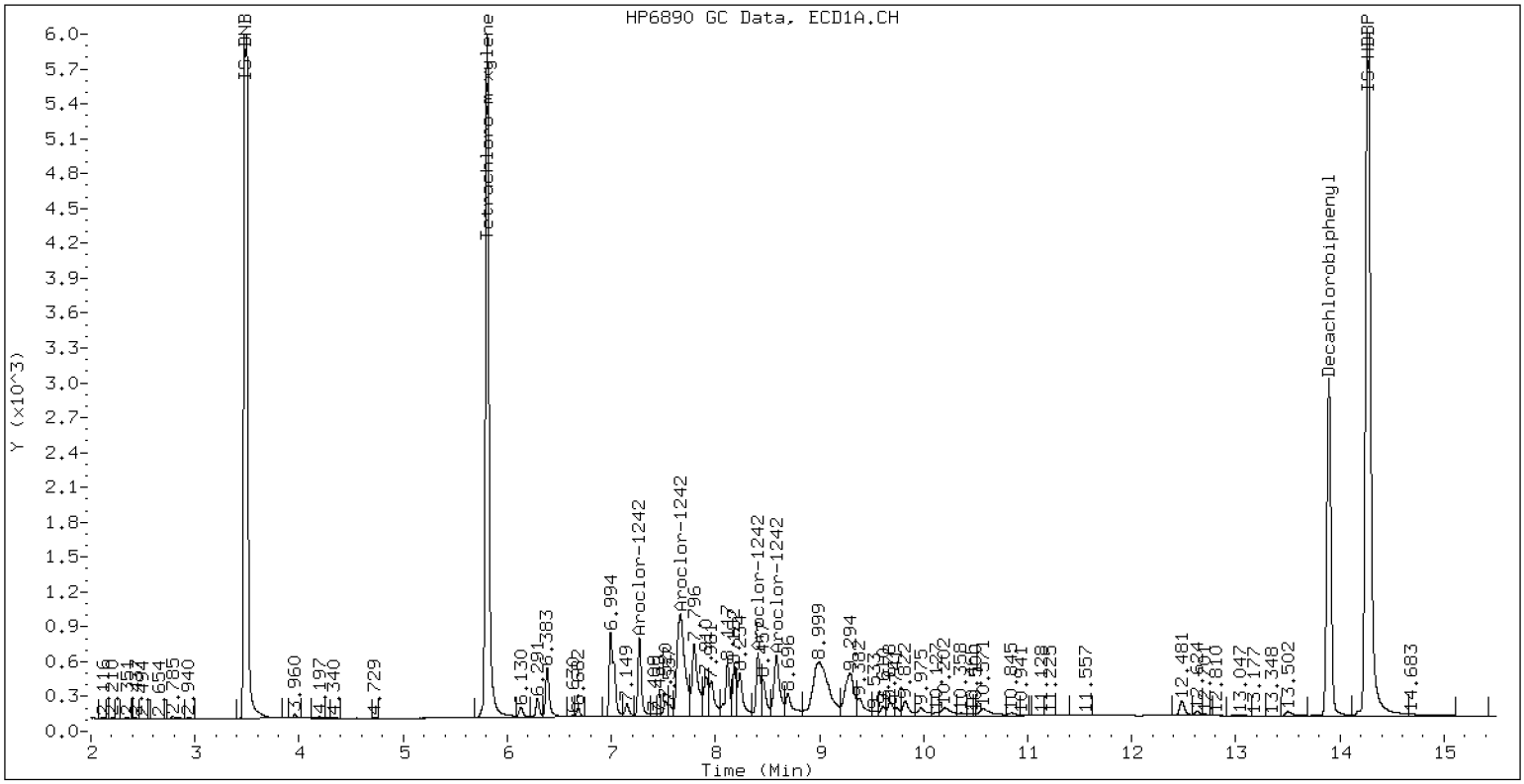
Total PCB Area Col2 (5.790 - 14.019) = 545865 Col2 Total PCB = 0.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

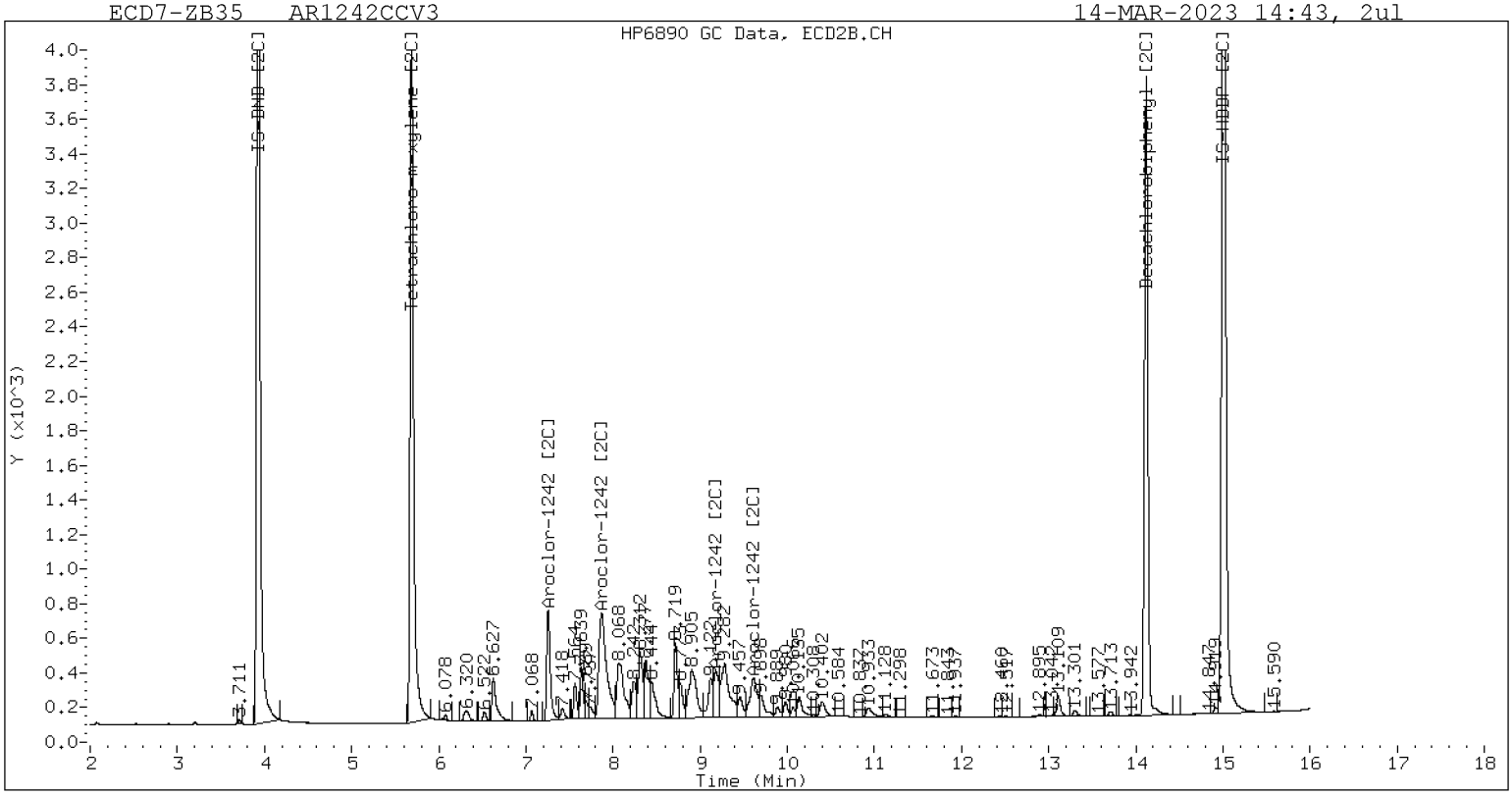
PCB Dual Column Chromatograms

ECD7-ZB5 AR1242CCV3 14-MAR-2023 14:43, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1242CCV3 14-MAR-2023 14:43, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD7	Calibration:	GB00069
Lab File ID:	03142317ECD7.D	Calibration Date:	02/24/2023
Sequence:	SLC0203	Injection Date:	03/14/23
Lab Sample ID:	SLC0203-CCV4	Injection Time:	15:04
Sequence Name:	AR1660CCV4		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT	
Aroclor 1016	A	250.00	250	0.0493662	0.0491426		0.0	+/-20	
Aroclor-1016 (1)	A	250.00	250	0.0303852	0.0304268		0.0		
Aroclor-1016 (2)	A	250.00	242	0.0926308	0.0898044		-3.2		
Aroclor-1016 (3)	A	250.00	266	0.0452180	0.0480813		6.4		
Aroclor-1016 (4)	A	250.00	242	0.0292307	0.0282579		-3.2		
Aroclor 1016 [2C]	A	250.00	258	0.0545857	0.0561423		3.2	+/-20	
Aroclor-1016 (1) [2C]	A	250.00	239	0.0468313	0.0447344		-4.4		
Aroclor-1016 (2) [2C]	A	250.00	255	0.0949676	0.0968755		2.0		
Aroclor-1016 (3) [2C]	A	250.00	286	0.0428922	0.0490267		14.4		
Aroclor-1016 (4) [2C]	A	250.00	252	0.0336515	0.0339326		0.8		
Aroclor 1260	A	250.00	345	0.0392091	0.0541443		38.2	+/-20	*
Aroclor-1260 (1)	A	250.00	337	0.0287785	0.0387832		34.8		
Aroclor-1260 (2)	A	250.00	370	0.0300690	0.0444476		48.0		
Aroclor-1260 (3)	A	250.00	349	0.0797517	0.1113072		39.6		
Aroclor-1260 (4)	A	250.00	326	0.0401599	0.0523342		30.4		
Aroclor-1260 (5)	A	250.00	345	0.0172866	0.0238495		38.0		
Aroclor 1260 [2C]	A	250.00	277	0.0699688	0.0778833		10.7	+/-20	
Aroclor-1260 (1) [2C]	A	250.00	296	0.0470406	0.0556506		18.4		
Aroclor-1260 (2) [2C]	A	250.00	280	0.1200523	0.1346282		12.0		
Aroclor-1260 (3) [2C]	A	250.00	258	0.0318590	0.0329041		3.2		
Aroclor-1260 (4) [2C]	A	250.00	273	0.0809231	0.0883503		9.2		
Decachlorobiphenyl	A	40.000	42.4	0.7878687	0.8343393		6.0	+/-20	
Tetrachlorometaxylene	A	40.000	39.8	1.1944880	1.1882820		-0.5	+/-20	
Decachlorobiphenyl [2C]	A	40.000	40.0	1.2182710	1.2185640		0.0	+/-20	
Tetrachlorometaxylene [2C]	A	40.000	39.0	1.1737210	1.1445310		-2.5	+/-20	

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230314.b/03142317ECD7.D
Data file 2: /230314.b/230314.b/03142317ECD7.D
Method: \\target\share\chem4\ecd7.i\230314.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCV4
Client ID:
Injection Date: 14-MAR-2023 15:04
Report Date: 03/14/2023 16:24
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.807	0.001	242296	5.690	0.000	186570	39.8	39.0	2.0	Tetrachloro-m-xylene
13.894	0.000	227259	14.119	0.000	247937	42.4	40.0	5.7	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	407809	-39.5
Hexabromobiphenyl	1429847	544764	-61.9 <-

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	326020	3.4
Hexabromobiphenyl	513946	406933	-20.8

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.271	0.000	38776	250.3	1	7.257	0.000	45576	238.8
Aroclor-1016	2	7.663	0.002	114447	242.4	2	7.869	0.000	98698	255.0
Aroclor-1016	3	7.797	0.001	61275	265.8	3	8.069	0.000	49949	285.8
Aroclor-1016	4	8.409	-0.000	36012	241.7	4	8.311	0.000	34571	252.1
Total Col1Ave (4 peaks):					250.1	Total Col2Ave (4 peaks):				257.9 RPD = 3
Corrected Ave (3 peaks):					244.8	Corrected Ave (3 peaks):				248.6 RPD = 2
CalAmt %D:					0.0	CalAmt %D:				3.2
Aroclor-1260	1	11.048	-0.000	66024	336.9	1	11.657	0.000	70769	295.8
Aroclor-1260	2	11.365	0.000	75667	369.5	2	11.923	0.000	171202	280.4
Aroclor-1260	3	11.740	-0.000	189488	348.9	3	12.440	0.000	41843	258.2
Aroclor-1260	4	12.146	-0.001	89093	325.8	4	12.507	0.000	112352	272.9
Aroclor-1260	5	12.247	-0.000	40601	344.9	NS	---			----
Total Col1Ave (5 peaks):					345.2	Total Col2Ave (4 peaks):				276.8 RPD = 22
Corrected Ave (4 peaks):					339.1	Corrected Ave (3 peaks):				270.5 RPD = 23
CalAmt %D:					38.1	CalAmt %D:				10.7

Total PCB Area Col1 (5.907 - 13.793) = 2174578 Col1 Total PCB = 0.4 ppm*

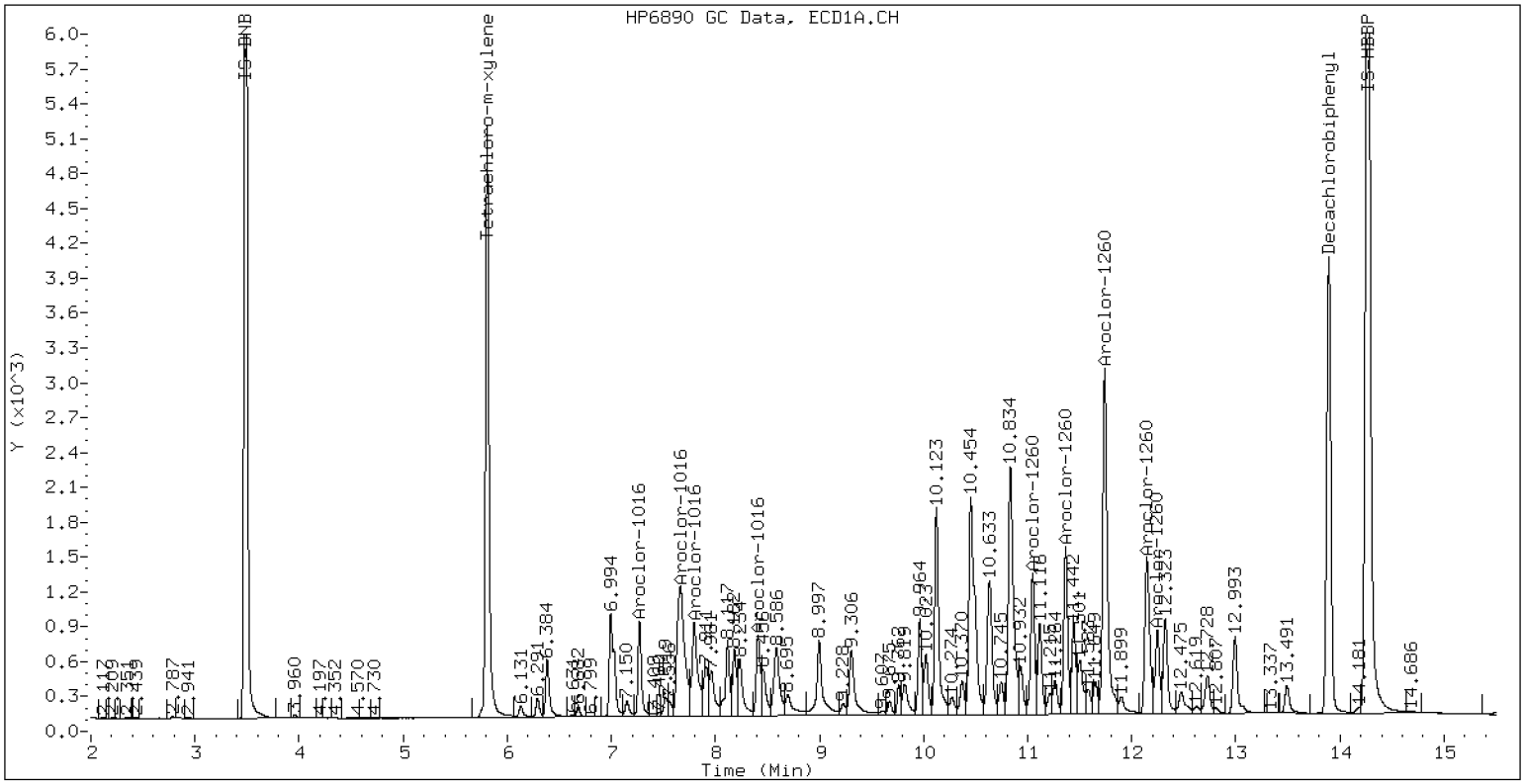
Total PCB Area Col2 (5.790 - 14.019) = 1707663 Col2 Total PCB = 0.4 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

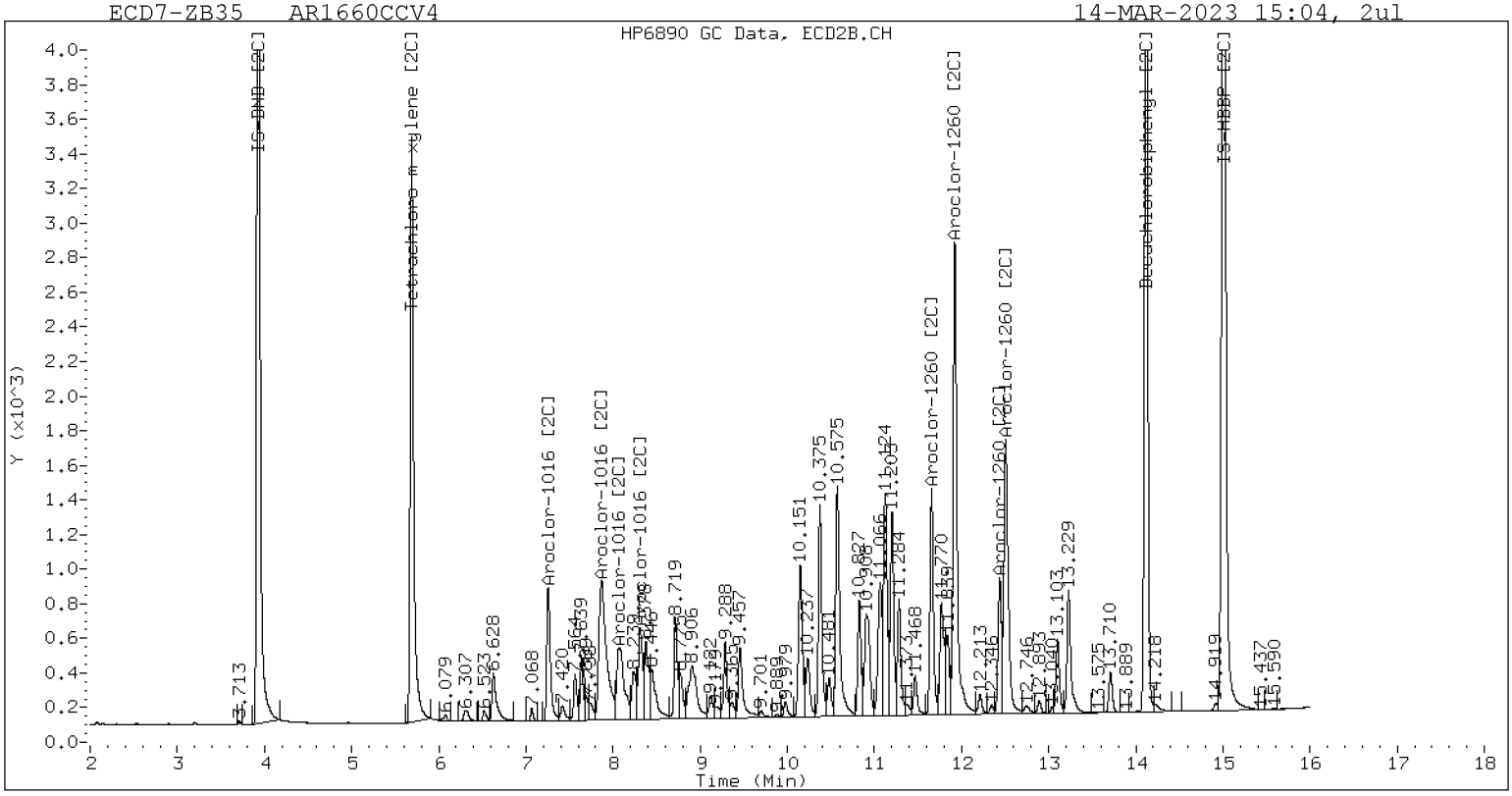
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV4 14-MAR-2023 15:04, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCV4 14-MAR-2023 15:04, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD7	Calibration:	GB00069
Lab File ID:	03142332ECD7.D	Calibration Date:	02/24/2023
Sequence:	SLC0203	Injection Date:	03/14/23
Lab Sample ID:	SLC0203-CCV5	Injection Time:	20:17
Sequence Name:	AR1254CCV5		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1254	A	250.00	219	0.0662949	0.0574219		-12.4	+/-20
Aroclor-1254 (1)	A	250.00	215		0.0692253			
Aroclor-1254 (2)	A	250.00	221		0.0320007			
Aroclor-1254 (3)	A	250.00	212		0.0438835			
Aroclor-1254 (4)	A	250.00	197		0.0790694			
Aroclor-1254 (5)	A	250.00	250		0.0629304			
Aroclor 1254 [2C]	A	250.00	219	0.0763106	0.0670508		-12.2	+/-20
Aroclor-1254 (1) [2C]	A	250.00	228		0.0554830			
Aroclor-1254 (2) [2C]	A	250.00	222		0.0434730			
Aroclor-1254 (3) [2C]	A	250.00	225		0.0953837			
Aroclor-1254 (4) [2C]	A	250.00	216		0.0891741			
Aroclor-1254 (5) [2C]	A	250.00	206		0.0517402			
Decachlorobiphenyl	A	40.000	39.2	0.7878687	0.7721465		-2.0	+/-20
Tetrachlorometaxylene	A	40.000	37.0	1.1944880	1.1043690		-7.5	+/-20
Decachlorobiphenyl [2C]	A	40.000	38.1	1.2182710	1.1614720		-4.8	+/-20
Tetrachlorometaxylene [2C]	A	40.000	37.3	1.1737210	1.0946890		-6.8	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230314.b/03142332ECD7.D
Data file 2: /230314.b/230314.b/03142332ECD7.D
Method: \\target\share\chem4\ecd7.i\230314.b\PCB.m
Compound Sublist: AR1254.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254CCV5
Client ID:
Injection Date: 14-MAR-2023 20:17
Report Date: 03/15/2023 09:29
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.807	0.000	238875	5.689	0.000	189997	37.0	37.3	0.9	Tetrachloro-m-xylene
13.894	-0.000	191851	14.119	0.000	227292	39.2	38.1	2.8	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	432600	-35.8
Hexabromobiphenyl	1429847	496929	-65.2 <-

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	347125	10.1
Hexabromobiphenyl	513946	391386	-23.8

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1254	1	9.302	0.000	93584	215.4	1	9.455	0.000	60186	228.1
Aroclor-1254	2	9.382	0.000	43261	221.4	2	9.975	0.000	47158	222.2
Aroclor-1254	3	9.674	0.000	59325	212.4	3	10.132	0.000	103469	225.3
Aroclor-1254	4	9.814	0.000	106892	196.8	4	10.379	0.000	96733	216.1
Aroclor-1254	5	10.189	0.000	85074	250.0	5	10.574	0.000	56126	205.9

Total Col1Ave (5 peaks): 219.2 Total Col2Ave (5 peaks): 219.5 RPD = 0

Corrected Ave (4 peaks): 211.5 Corrected Ave (4 peaks): 217.4 RPD = 3

CalAmt %D: -12.3 CalAmt %D: -12.2

Total PCB Area Col1 (5.907 - 13.795) = 1190053 Col1 Total PCB = 0.2 ppm*

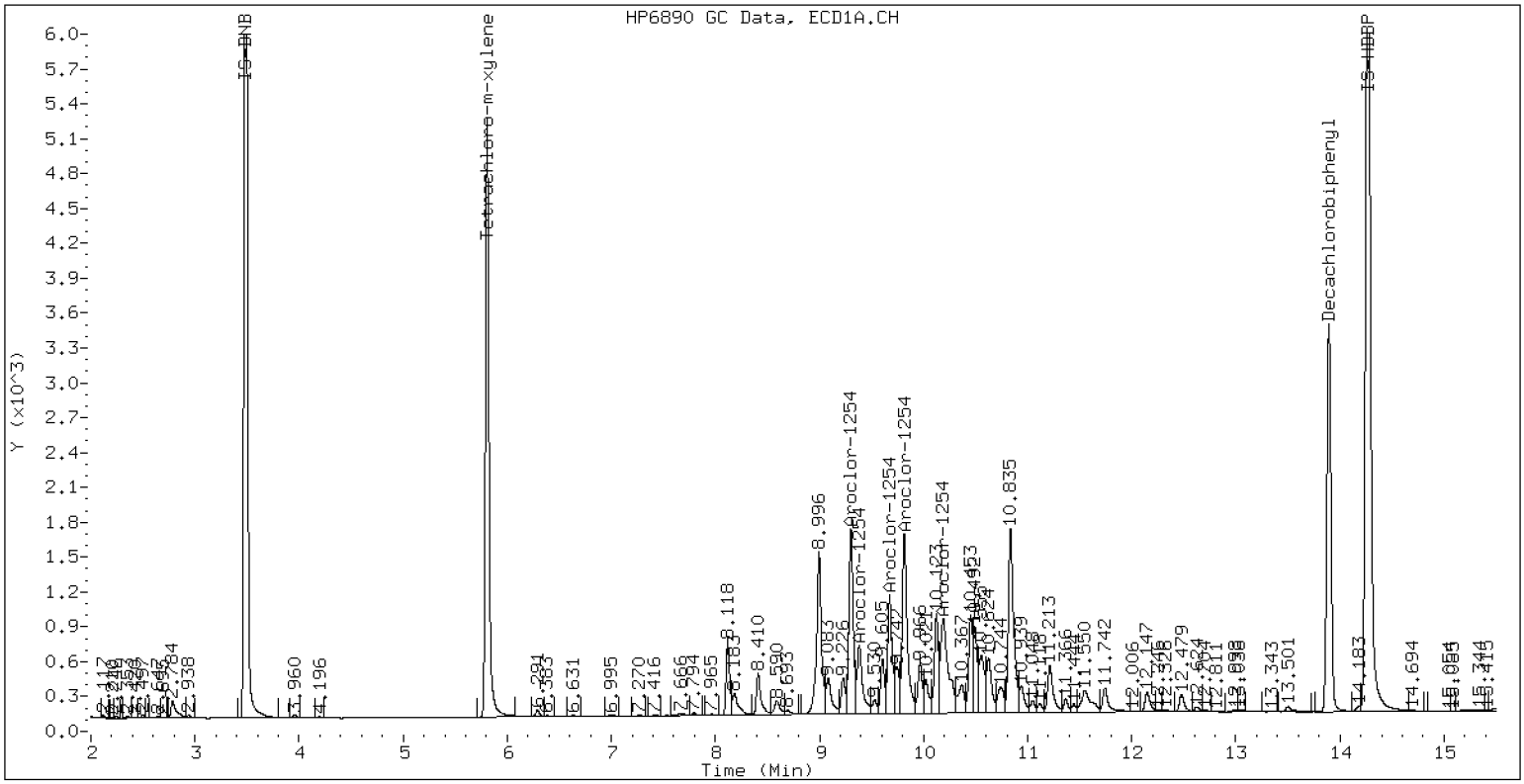
Total PCB Area Col2 (5.788 - 14.019) = 974966 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

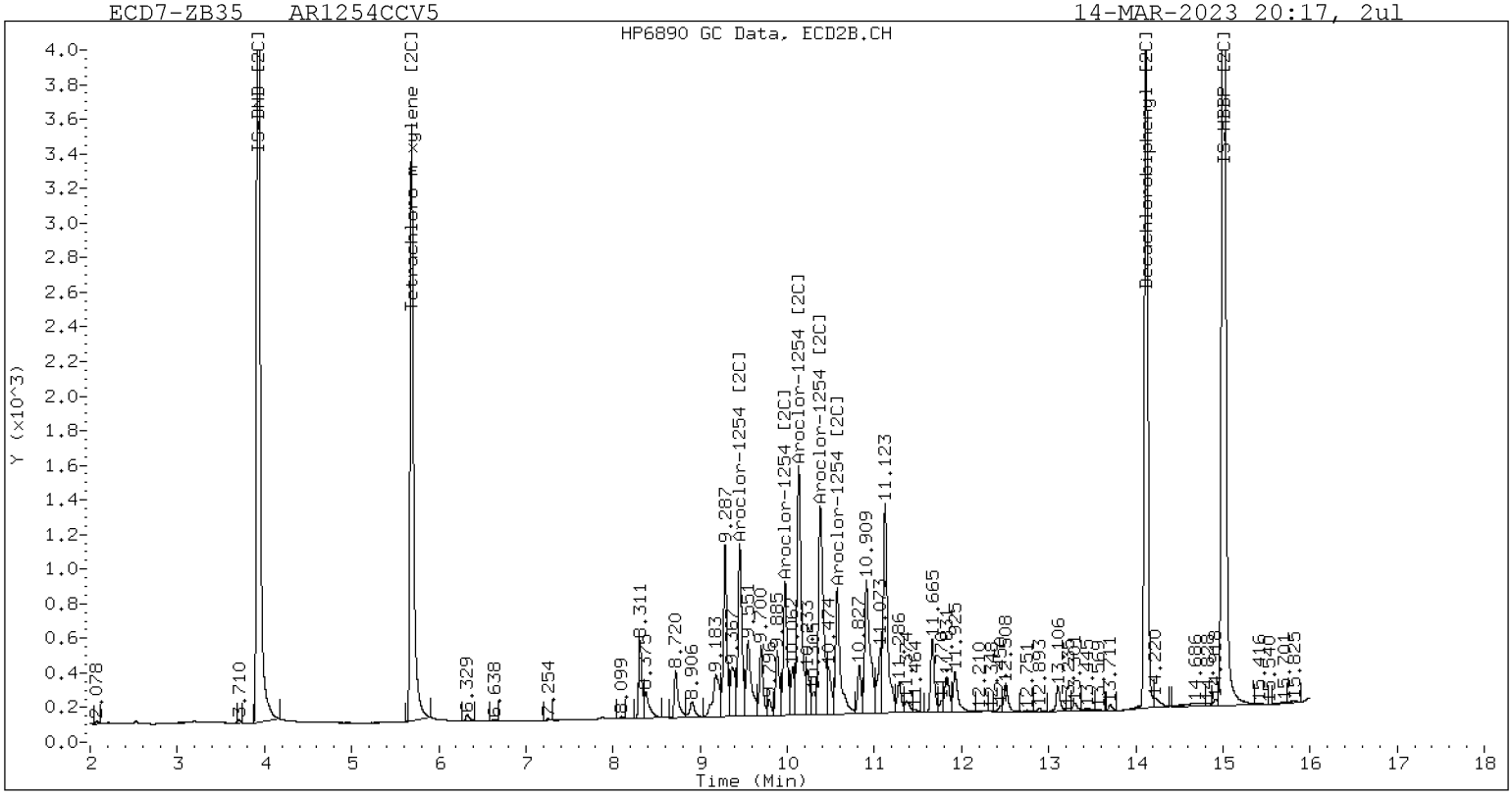
PCB Dual Column Chromatograms

ECD7-ZB5 AR1254CCV5 14-MAR-2023 20:17, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1254CCV5 14-MAR-2023 20:17, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD7	Calibration:	GB00069
Lab File ID:	03142333ECD7.D	Calibration Date:	02/24/2023
Sequence:	SLC0203	Injection Date:	03/14/23
Lab Sample ID:	SLC0203-CCV6	Injection Time:	20:38
Sequence Name:	AR1660CCV6		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT	
Aroclor 1016	A	250.00	254	0.0493662	0.0501892		1.7	+/-20	
Aroclor-1016 (1)	A	250.00	254	0.0303852	0.0308739		1.6		
Aroclor-1016 (2)	A	250.00	251	0.0926308	0.0928613		0.4		
Aroclor-1016 (3)	A	250.00	269	0.0452180	0.0486212		7.6		
Aroclor-1016 (4)	A	250.00	243	0.0292307	0.0284004		-2.8		
Aroclor 1016 [2C]	A	250.00	265	0.0545857	0.0578474		6.1	+/-20	
Aroclor-1016 (1) [2C]	A	250.00	245	0.0468313	0.0459377		-2.0		
Aroclor-1016 (2) [2C]	A	250.00	264	0.0949676	0.1003125		5.6		
Aroclor-1016 (3) [2C]	A	250.00	294	0.0428922	0.0503670		17.6		
Aroclor-1016 (4) [2C]	A	250.00	258	0.0336515	0.0347725		3.2		
Aroclor 1260	A	250.00	344	0.0392091	0.0541849		37.5	+/-20	*
Aroclor-1260 (1)	A	250.00	330	0.0287785	0.0380299		32.0		
Aroclor-1260 (2)	A	250.00	370	0.0300690	0.0445036		48.0		
Aroclor-1260 (3)	A	250.00	354	0.0797517	0.1127907		41.6		
Aroclor-1260 (4)	A	250.00	323	0.0401599	0.0519462		29.2		
Aroclor-1260 (5)	A	250.00	342	0.0172866	0.0236539		36.8		
Aroclor 1260 [2C]	A	250.00	271	0.0699688	0.0758939		8.2	+/-20	
Aroclor-1260 (1) [2C]	A	250.00	289	0.0470406	0.0543297		15.6		
Aroclor-1260 (2) [2C]	A	250.00	270	0.1200523	0.1299029		8.0		
Aroclor-1260 (3) [2C]	A	250.00	255	0.0318590	0.0324722		2.0		
Aroclor-1260 (4) [2C]	A	250.00	268	0.0809231	0.0868706		7.2		
Decachlorobiphenyl	A	40.000	42.7	0.7878687	0.8418669		6.8	+/-20	
Tetrachlorometaxylene	A	40.000	40.1	1.1944880	1.1983880		0.3	+/-20	
Decachlorobiphenyl [2C]	A	40.000	41.1	1.2182710	1.2512700		2.8	+/-20	
Tetrachlorometaxylene [2C]	A	40.000	39.7	1.1737210	1.1641090		-0.8	+/-20	

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230314.b/03142333ECD7.D
Data file 2: /230314.b/230314.b/03142333ECD7.D
Method: \\target\share\chem4\ecd7.i\230314.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCV6
Client ID:
Injection Date: 14-MAR-2023 20:38
Report Date: 03/15/2023 09:29
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.809	0.002	252090	5.690	0.002	193561	40.1	39.7	1.1	Tetrachloro-m-xylene
13.894	-0.001	244109	14.119	-0.000	268052	42.7	41.1	4.0	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	420715	-37.6
Hexabromobiphenyl	1429847	579923	-59.4 <-

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	332548	5.5
Hexabromobiphenyl	513946	428448	-16.6

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.271	0.001	40591	254.0	1	7.257	0.001	47739	245.2
Aroclor-1016	2	7.664	0.002	122088	250.6	2	7.869	0.001	104246	264.1
Aroclor-1016	3	7.796	0.001	63924	268.8	3	8.067	0.000	52342	293.6
Aroclor-1016	4	8.409	-0.000	37339	242.9	4	8.312	0.000	36136	258.3
Total Col1Ave (4 peaks):					254.1	Total Col2Ave (4 peaks):				265.3 RPD = 4
Corrected Ave (3 peaks):					249.2	Corrected Ave (3 peaks):				255.9 RPD = 3
CalAmt %D:					1.6	CalAmt %D:				6.1
Aroclor-1260	1	11.049	0.000	68920	330.4	1	11.656	0.000	72742	288.7
Aroclor-1260	2	11.366	0.000	80652	370.0	2	11.923	0.000	173927	270.5
Aroclor-1260	3	11.741	0.000	204406	353.6	3	12.440	-0.001	43477	254.8
Aroclor-1260	4	12.146	-0.001	94140	323.4	4	12.506	0.000	116311	268.4
Aroclor-1260	5	12.247	0.000	42867	342.1	NS	---			----
Total Col1Ave (5 peaks):					343.9	Total Col2Ave (4 peaks):				270.6 RPD = 24
Corrected Ave (4 peaks):					337.3	Corrected Ave (3 peaks):				264.6 RPD = 24
CalAmt %D:					37.6	CalAmt %D:				8.2

Total PCB Area Col1 (5.907 - 13.795) = 2279910 Col1 Total PCB = 0.5 ppm*

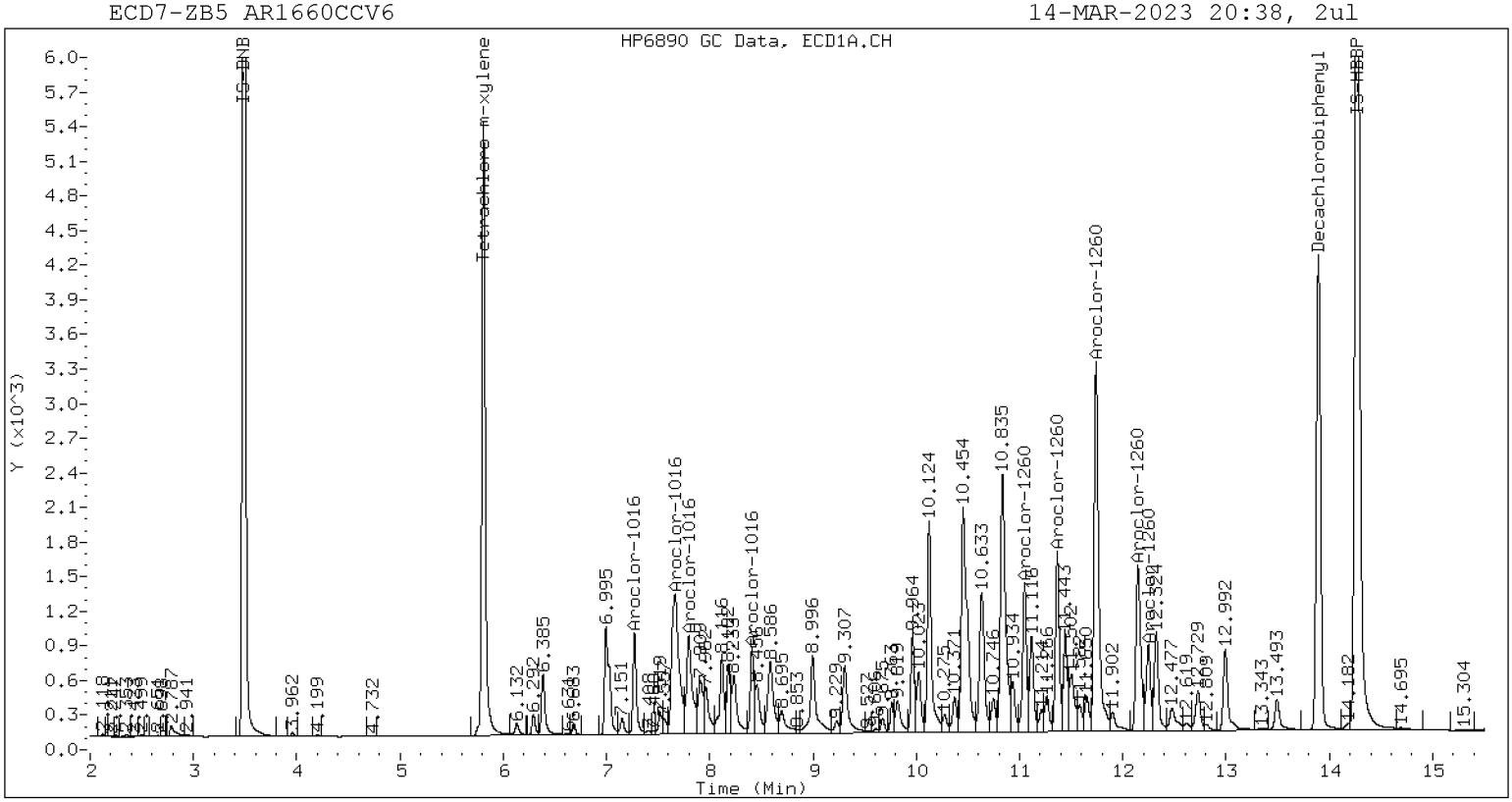
Total PCB Area Col2 (5.788 - 14.019) = 1782169 Col2 Total PCB = 0.4 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

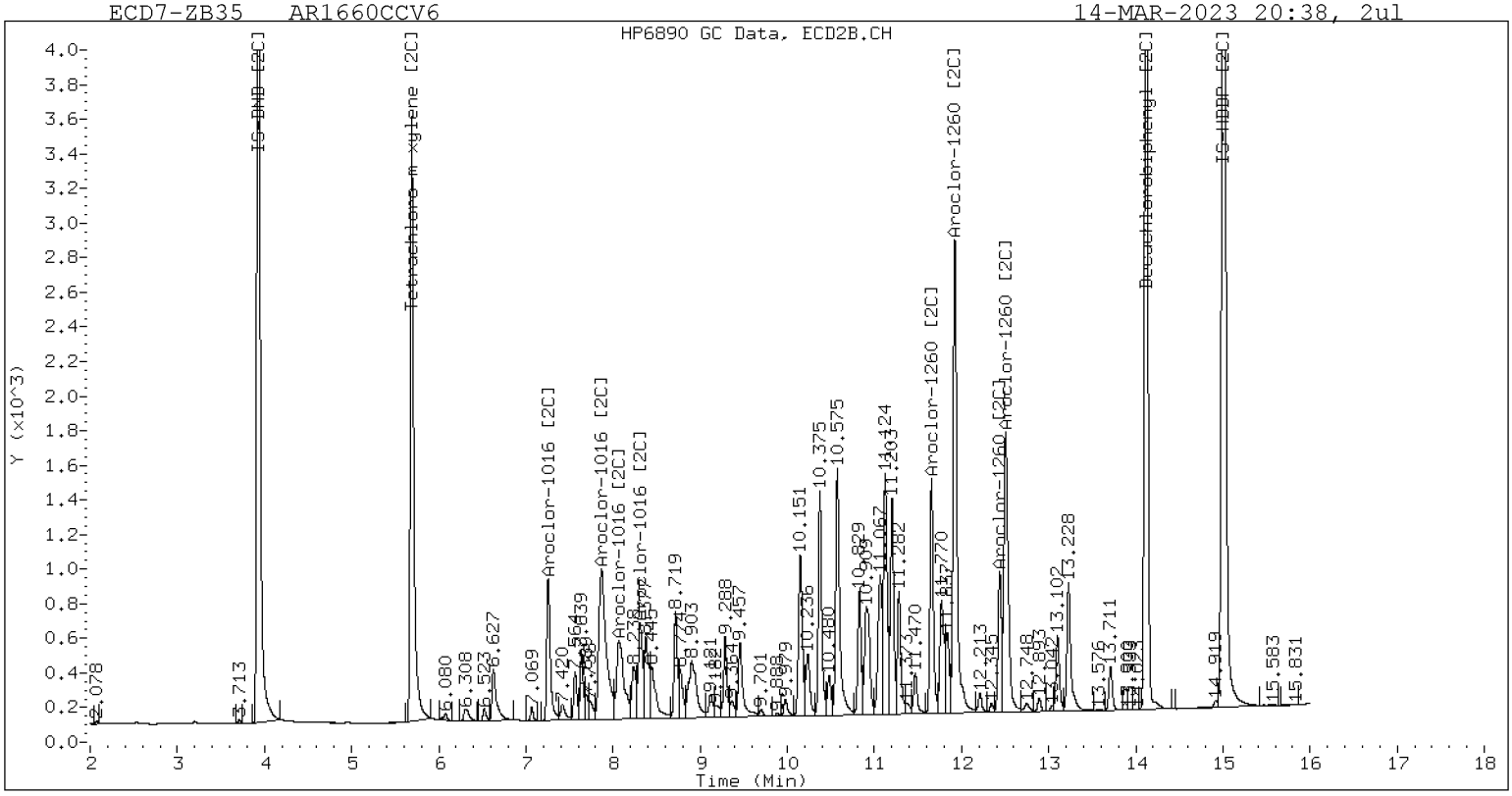
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV6 14-MAR-2023 20:38, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCV6 14-MAR-2023 20:38, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD7	Calibration:	GB00069
Lab File ID:	03142339ECD7.D	Calibration Date:	02/24/2023
Sequence:	SLC0203	Injection Date:	03/14/23
Lab Sample ID:	SLC0203-CCV7	Injection Time:	22:43
Sequence Name:	AR1248CCV7		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1248	A	250.00	236	0.0574755	0.0552929		-5.7	+/-20
Aroclor-1248 (1)	A	250.00	234		0.0365334			
Aroclor-1248 (2)	A	250.00	239		0.0474504			
Aroclor-1248 (3)	A	250.00	258		0.0967086			
Aroclor-1248 (4)	A	250.00	212		0.0404792			
Aroclor 1248 [2C]	A	250.00	234	0.0444270	0.0416725		-6.3	+/-20
Aroclor-1248 (1) [2C]	A	250.00	230		0.0351202			
Aroclor-1248 (2) [2C]	A	250.00	242		0.0382397			
Aroclor-1248 (3) [2C]	A	250.00	229		0.0417124			
Aroclor-1248 (4) [2C]	A	250.00	236		0.0516175			
Decachlorobiphenyl	A	40.000	39.0	0.7878687	0.7692550		-2.5	+/-20
Tetrachlorometaxylene	A	40.000	37.6	1.1944880	1.1217260		-6.0	+/-20
Decachlorobiphenyl [2C]	A	40.000	37.8	1.2182710	1.1507380		-5.5	+/-20
Tetrachlorometaxylene [2C]	A	40.000	39.1	1.1737210	1.1466990		-2.3	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230314.b/03142339ECD7.D
Data file 2: /230314.b/230314.b/03142339ECD7.D
Method: \\target\share\chem4\ecd7.i\230314.b\PCB.m
Compound Sublist: AR1248.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1248CCV7
Client ID:
Injection Date: 14-MAR-2023 22:43
Report Date: 03/15/2023 09:29
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.807	0.001	247308	5.690	0.001	198438	37.6	39.1	4.0	Tetrachloro-m-xylene
13.895	0.001	198102	14.120	0.001	230830	39.1	37.8	3.3	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	440942	-34.6
Hexabromobiphenyl	1429847	515049	-64.0 <-

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	346103	9.8
Hexabromobiphenyl	513946	401186	-21.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1248	1	8.409	0.000	50341	234.0	1	8.310	0.000	37985	229.9
Aroclor-1248	2	8.584	0.000	65384	239.1	2	8.718	0.000	41359	242.1
Aroclor-1248	3	8.999	0.000	133259	258.3	3	9.175	0.000	45115	229.4
Aroclor-1248	4	9.294	0.000	55778	212.4	4	9.604	0.000	55828	236.5
Total Col1Ave (4 peaks):					235.9	Total Col2Ave (4 peaks):				234.5 RPD = 1
Corrected Ave (3 peaks):					228.5	Corrected Ave (3 peaks):				231.9 RPD = 1
CalAmt %D:					-5.6	CalAmt %D:				-6.2

Total PCB Area Col1 (5.907 - 13.795) = 1000345 Col1 Total PCB = 0.2 ppm*

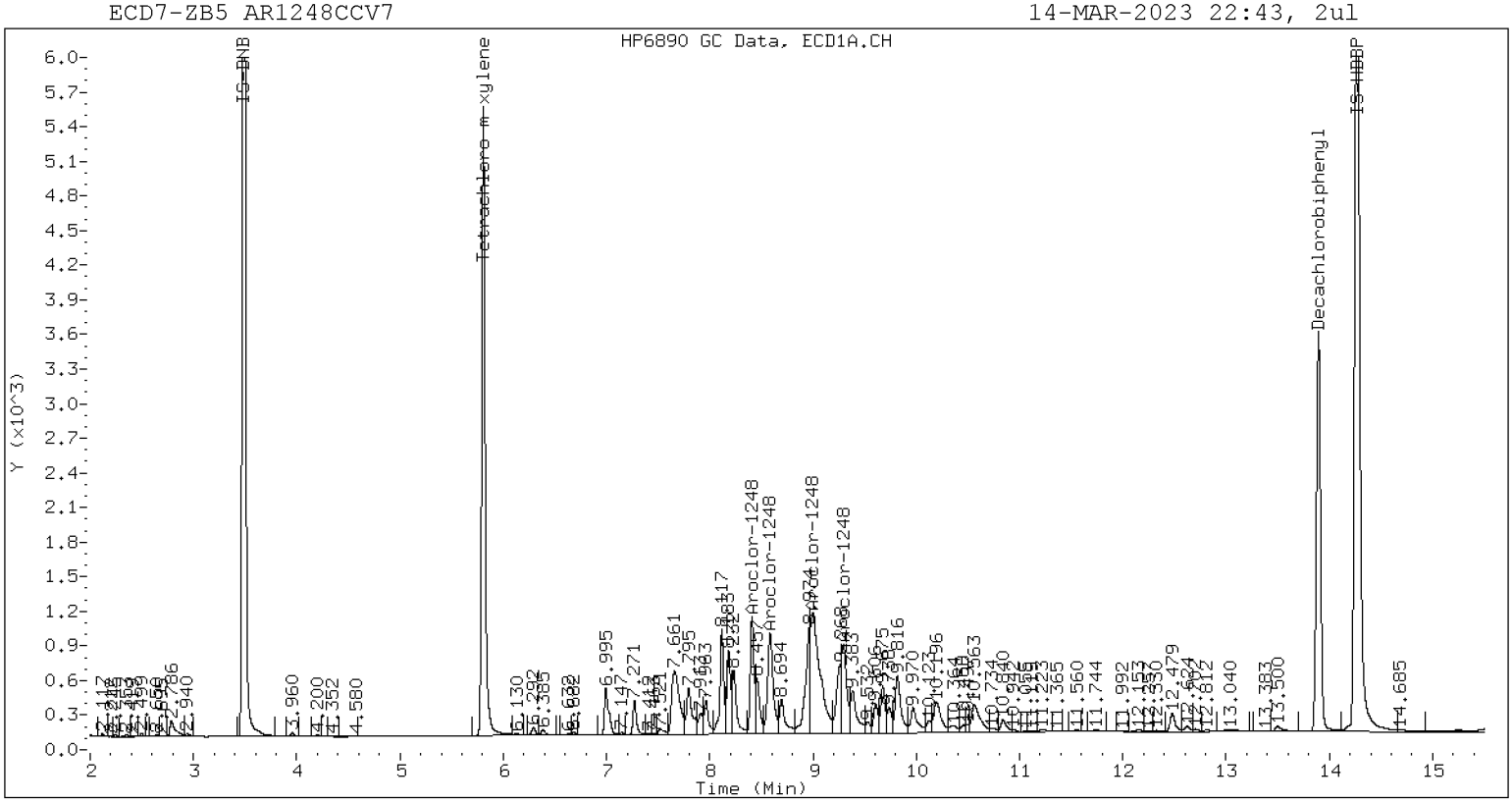
Total PCB Area Col2 (5.788 - 14.019) = 777824 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

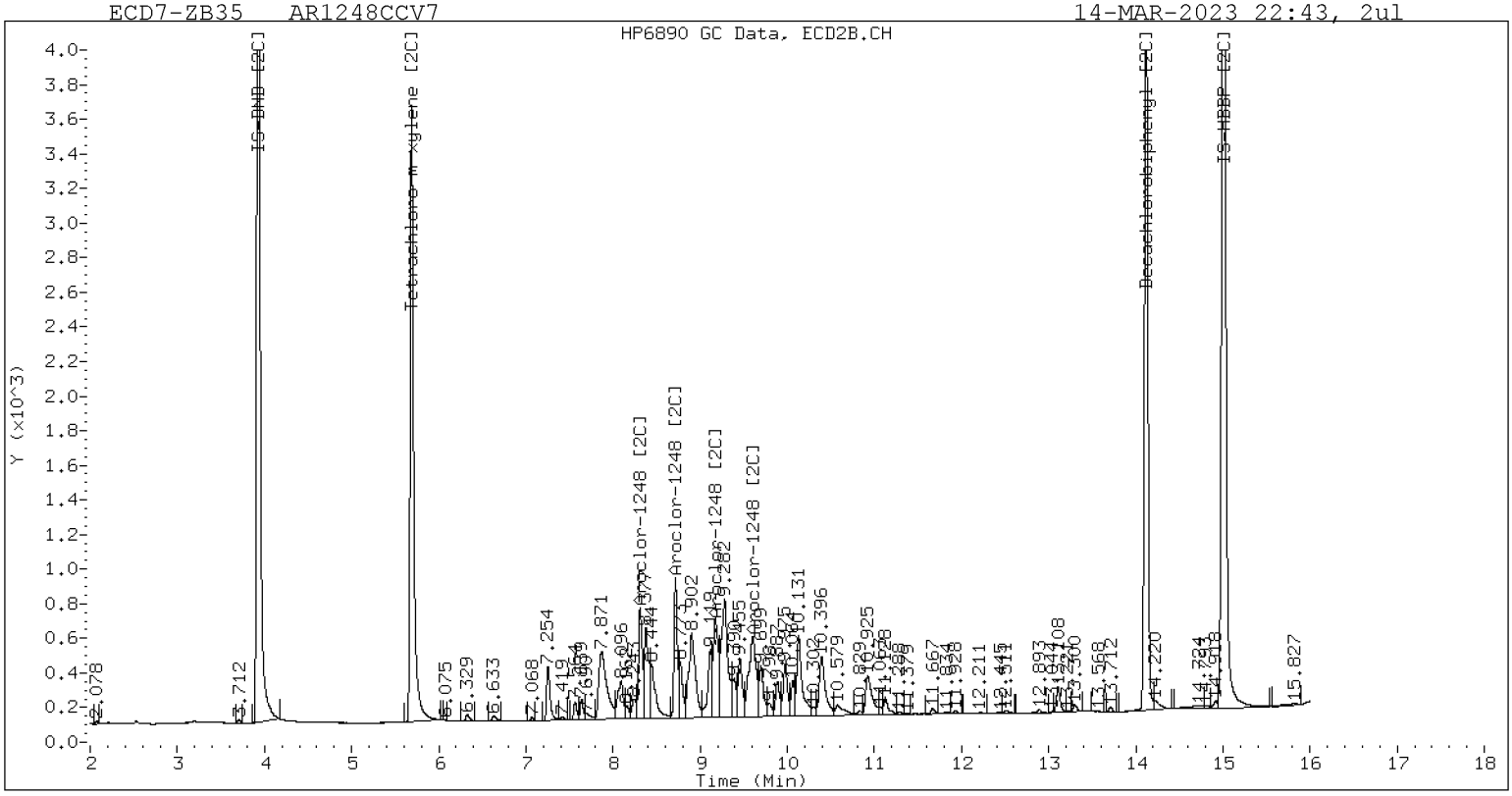
PCB Dual Column Chromatograms

ECD7-ZB5 AR1248CCV7 14-MAR-2023 22:43, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 AR1248CCV7 14-MAR-2023 22:43, 2ul

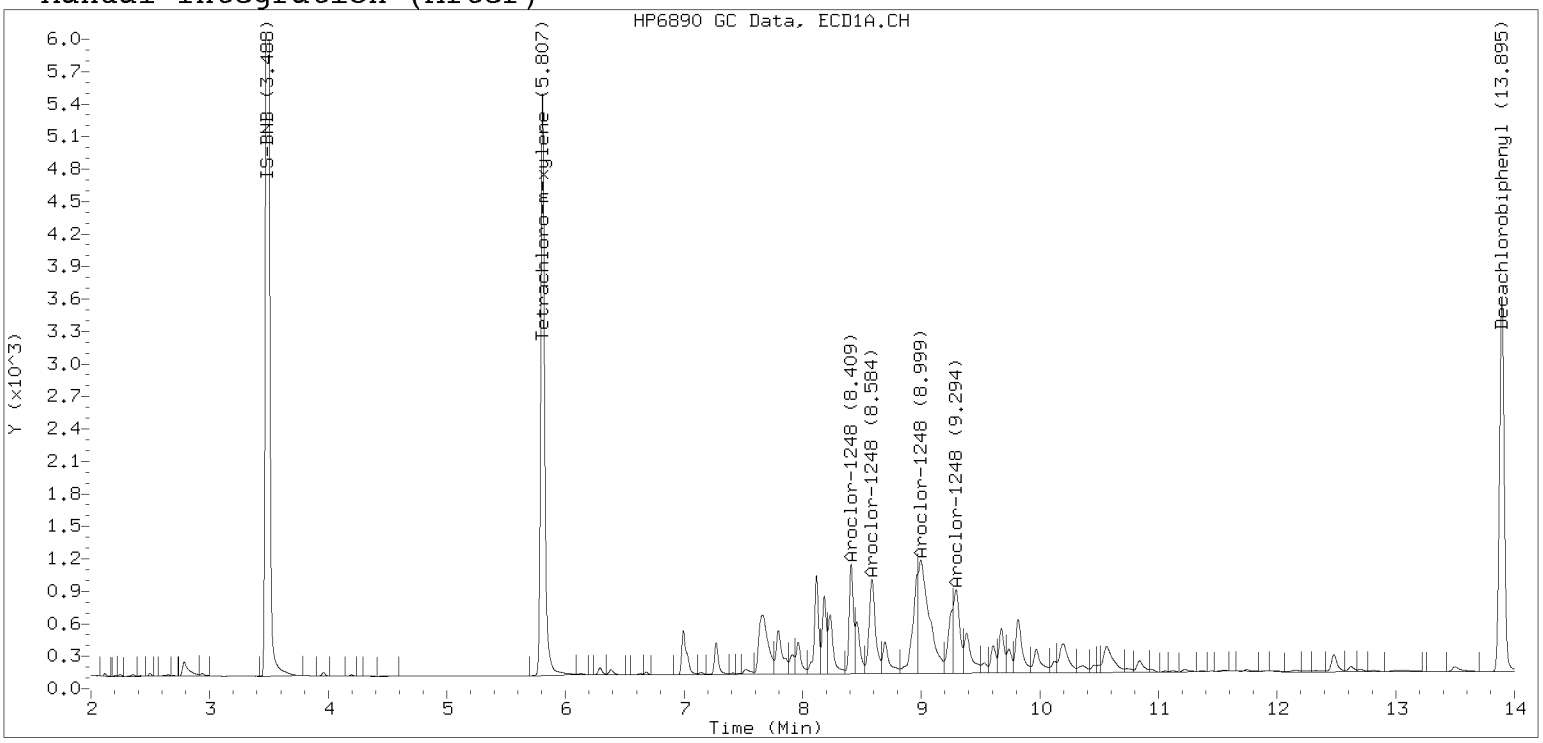


ZB-35 Manual Integration: NO

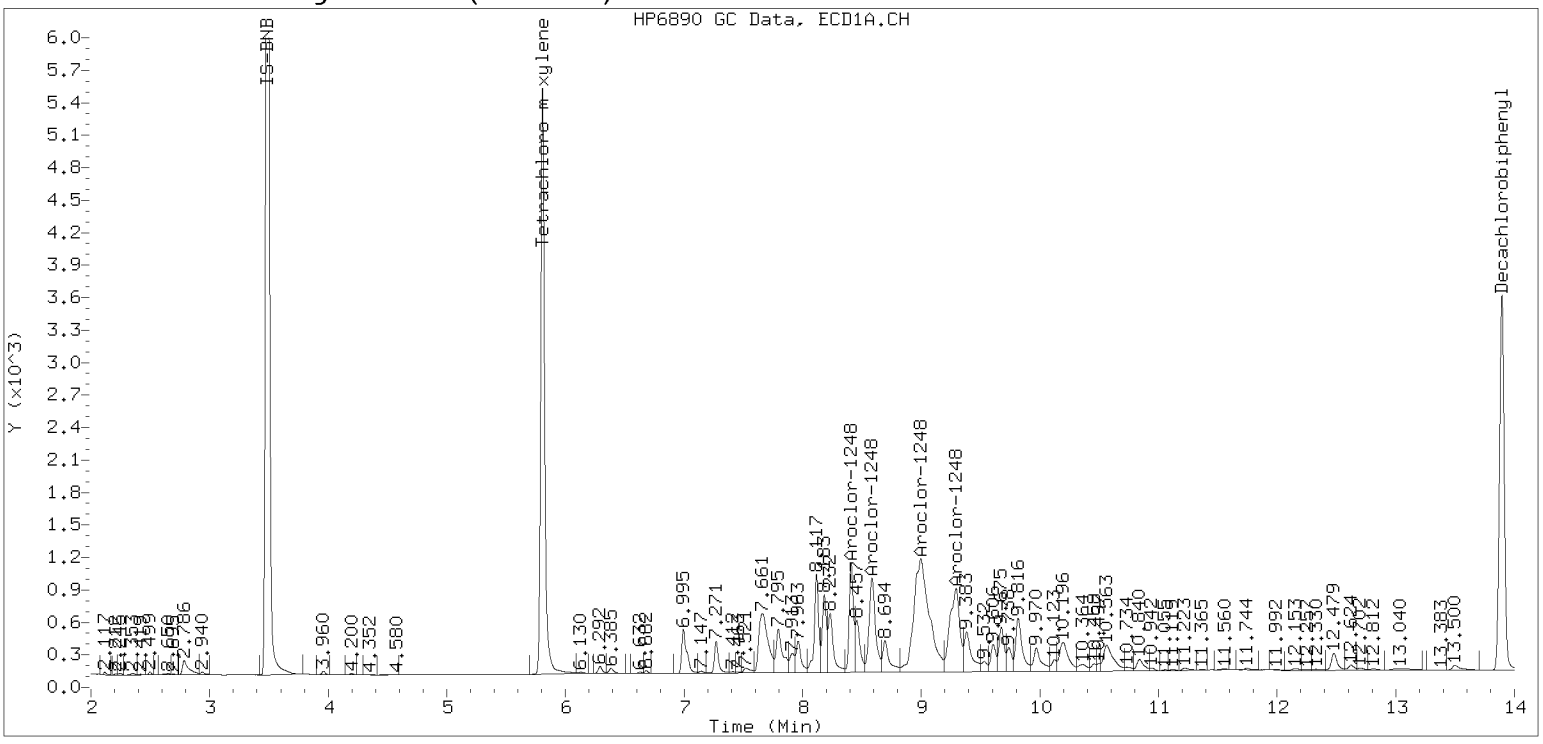
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230314.b/03142339ECD7.D Injection Date: 14-MAR-2023 22:43

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	ECD7	Calibration:	GB00069
Lab File ID:	03142340ECD7.D	Calibration Date:	02/24/2023
Sequence:	SLC0203	Injection Date:	03/14/23
Lab Sample ID:	SLC0203-CCV8	Injection Time:	23:04
Sequence Name:	AR1660CCV8		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT	
Aroclor 1016	A	250.00	253	0.0493662	0.0498940		1.0	+/-20	
Aroclor-1016 (1)	A	250.00	251	0.0303852	0.0304949		0.4		
Aroclor-1016 (2)	A	250.00	249	0.0926308	0.0924181		-0.4		
Aroclor-1016 (3)	A	250.00	266	0.0452180	0.0480740		6.4		
Aroclor-1016 (4)	A	250.00	244	0.0292307	0.0285890		-2.4		
Aroclor 1016 [2C]	A	250.00	263	0.0545857	0.0574780		5.3	+/-20	
Aroclor-1016 (1) [2C]	A	250.00	243	0.0468313	0.0455512		-2.8		
Aroclor-1016 (2) [2C]	A	250.00	263	0.0949676	0.0999894		5.2		
Aroclor-1016 (3) [2C]	A	250.00	291	0.0428922	0.0499051		16.4		
Aroclor-1016 (4) [2C]	A	250.00	256	0.0336515	0.0344664		2.4		
Aroclor 1260	A	250.00	337	0.0392091	0.0530746		34.9	+/-20	*
Aroclor-1260 (1)	A	250.00	327	0.0287785	0.0376668		30.8		
Aroclor-1260 (2)	A	250.00	362	0.0300690	0.0435788		44.8		
Aroclor-1260 (3)	A	250.00	344	0.0797517	0.1098610		37.6		
Aroclor-1260 (4)	A	250.00	319	0.0401599	0.0511825		27.6		
Aroclor-1260 (5)	A	250.00	334	0.0172866	0.0230840		33.6		
Aroclor 1260 [2C]	A	250.00	273	0.0699688	0.0766112		9.2	+/-20	
Aroclor-1260 (1) [2C]	A	250.00	291	0.0470406	0.0548150		16.4		
Aroclor-1260 (2) [2C]	A	250.00	273	0.1200523	0.1311912		9.2		
Aroclor-1260 (3) [2C]	A	250.00	258	0.0318590	0.0329079		3.2		
Aroclor-1260 (4) [2C]	A	250.00	270	0.0809231	0.0875308		8.0		
Decachlorobiphenyl	A	40.000	42.3	0.7878687	0.8339306		5.8	+/-20	
Tetrachlorometaxylene	A	40.000	39.8	1.1944880	1.1871620		-0.5	+/-20	
Decachlorobiphenyl [2C]	A	40.000	40.7	1.2182710	1.2399390		1.8	+/-20	
Tetrachlorometaxylene [2C]	A	40.000	40.5	1.1737210	1.1895740		1.3	+/-20	

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230314.b/03142340ECD7.D
Data file 2: /230314.b/230314.b/03142340ECD7.D
Method: \\target\share\chem4\ecd7.i\230314.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCV8
Client ID:
Injection Date: 14-MAR-2023 23:04
Report Date: 03/15/2023 09:29
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.807	0.000	252745	5.688	0.000	199607	39.8	40.5	2.0	Tetrachloro-m-xylene
13.895	0.000	242934	14.119	0.000	265466	42.3	40.7	3.9	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	673778	425797	-36.8
Hexabromobiphenyl	1429847	582624	-59.3 <-

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	315256	335594	6.5
Hexabromobiphenyl	513946	428192	-16.7

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 24-FEB-2023
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.270	0.000	40577	250.9	1	7.256	0.000	47771	243.2
Aroclor-1016	2	7.662	0.000	122973	249.4	2	7.867	0.000	104862	263.2
Aroclor-1016	3	7.796	0.000	63968	265.8	3	8.066	0.000	52337	290.9
Aroclor-1016	4	8.409	0.000	38041	244.5	4	8.312	0.000	36146	256.1
Total Col1Ave (4 peaks):					252.7	Total Col2Ave (4 peaks):				263.3 RPD = 4
Corrected Ave (3 peaks):					248.3	Corrected Ave (3 peaks):				254.1 RPD = 2
CalAmt %D:					1.1	CalAmt %D:				5.3
Aroclor-1260	1	11.049	0.000	68580	327.2	1	11.656	0.000	73348	291.3
Aroclor-1260	2	11.365	0.000	79344	362.3	2	11.922	0.000	175547	273.2
Aroclor-1260	3	11.740	0.000	200024	344.4	3	12.440	0.000	44034	258.2
Aroclor-1260	4	12.147	0.000	93188	318.6	4	12.506	0.000	117125	270.4
Aroclor-1260	5	12.247	0.000	42029	333.8	NS	---			----
Total Col1Ave (5 peaks):					337.3	Total Col2Ave (4 peaks):				273.3 RPD = 21
Corrected Ave (4 peaks):					331.0	Corrected Ave (3 peaks):				267.3 RPD = 21
CalAmt %D:					34.9	CalAmt %D:				9.3

Total PCB Area Col1 (5.907 - 13.795) = 2275514 Col1 Total PCB = 0.4 ppm*

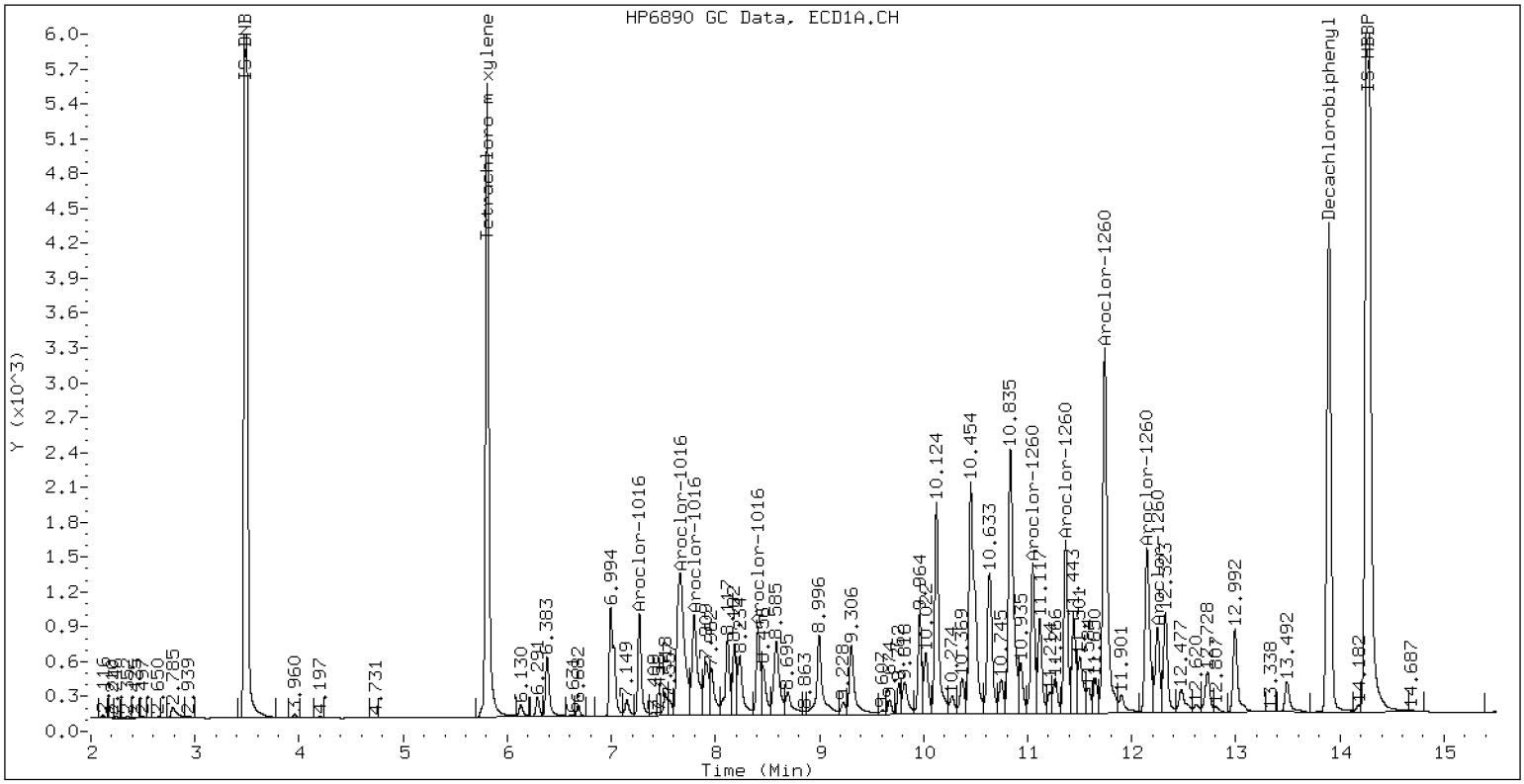
Total PCB Area Col2 (5.788 - 14.019) = 1802338 Col2 Total PCB = 0.4 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

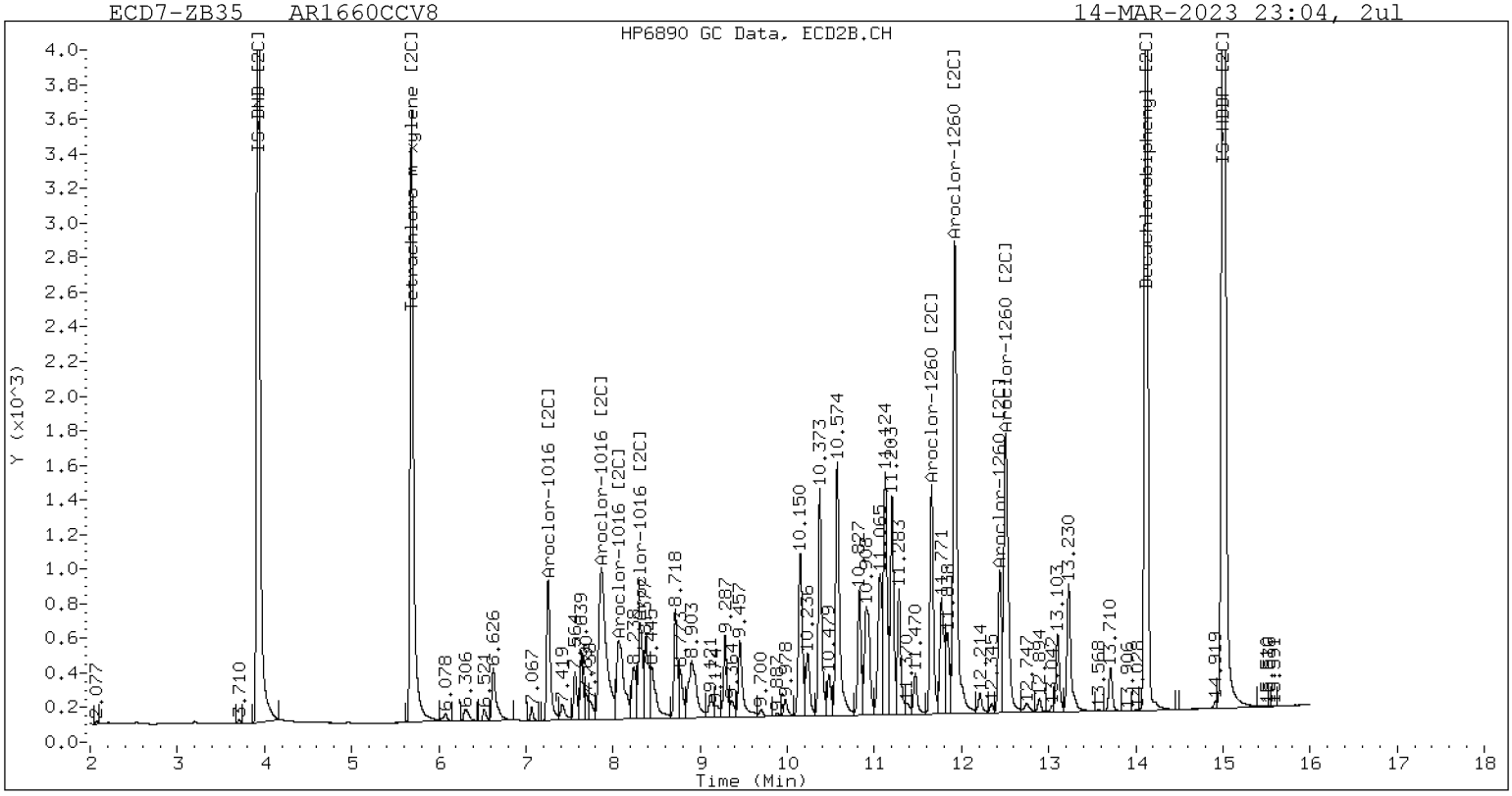
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV8 14-MAR-2023 23:04, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCV8 14-MAR-2023 23:04, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLB0342
Instrument: ECD7
Calibration: GB00069

Sample Name	Lab Sample ID	Column 1 File ID	Column 2 File ID	Matrix	Analysis Date/Time
Cal Standard	SLB0342-CAL1	02242302ECD7.D	02242302ECD7.D	NA	02/24/23 11:12
Cal Standard	SLB0342-CAL2	02242303ECD7.D	02242303ECD7.D	NA	02/24/23 11:33
Cal Standard	SLB0342-CAL3	02242304ECD7.D	02242304ECD7.D	NA	02/24/23 11:54
Cal Standard	SLB0342-CAL4	02242305ECD7.D	02242305ECD7.D	NA	02/24/23 12:15
Cal Standard	SLB0342-CAL5	02242306ECD7.D	02242306ECD7.D	NA	02/24/23 12:36
Cal Standard	SLB0342-CAL6	02242307ECD7.D	02242307ECD7.D	NA	02/24/23 12:57
Cal Standard	SLB0342-CAL7	02242308ECD7.D	02242308ECD7.D	NA	02/24/23 13:18
Cal Standard	SLB0342-CAL8	02242309ECD7.D	02242309ECD7.D	NA	02/24/23 13:39
Cal Standard	SLB0342-CAL9	02242310ECD7.D	02242310ECD7.D	NA	02/24/23 14:00
Cal Standard	SLB0342-CALA	02242311ECD7.D	02242311ECD7.D	NA	02/24/23 14:21
Cal Standard	SLB0342-CALB	02242312ECD7.D	02242312ECD7.D	NA	02/24/23 14:42
Secondary Cal Check	SLB0342-SCV1	02242313ECD7.D	02242313ECD7.D	NA	02/24/23 15:03
Secondary Cal Check	SLB0342-SCV2	02242314ECD7.D	02242314ECD7.D	NA	02/24/23 15:24
Secondary Cal Check	SLB0342-SCV3	02242315ECD7.D	02242315ECD7.D	NA	02/24/23 15:45
Secondary Cal Check	SLB0342-SCV4	02242316ECD7.D	02242316ECD7.D	NA	02/24/23 16:06
Secondary Cal Check	SLB0342-SCV5	02242317ECD7.D	02242317ECD7.D	NA	02/24/23 16:27
Secondary Cal Check	SLB0342-SCV6	02242318ECD7.D	02242318ECD7.D	NA	02/24/23 16:48

Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLC0203
Instrument: ECD7
Calibration: GB00069

Sample Name	Lab Sample ID	Column 1 File ID	Column 2 File ID	Matrix	Analysis Date/Time
Initial Cal Check	SLC0203-ICV1	03142302ECD7.D	03142302ECD7.D	NA	03/14/23 09:51
Initial Cal Check	SLC0203-ICV2	03142303ECD7.D	03142303ECD7.D	NA	03/14/23 10:11
Calibration Check	SLC0203-CCV1	03142309ECD7.D	03142309ECD7.D	NA	03/14/23 12:17
Calibration Check	SLC0203-CCV2	03142310ECD7.D	03142310ECD7.D	NA	03/14/23 12:37
Calibration Check	SLC0203-CCV3	03142316ECD7.D	03142316ECD7.D	NA	03/14/23 14:43
Calibration Check	SLC0203-CCV4	03142317ECD7.D	03142317ECD7.D	NA	03/14/23 15:04
Blank	BLC0124-BLK1	03142318ECD7.D	03142318ECD7.D	Solid	03/14/23 15:24
LCS	BLC0124-BS1	03142319ECD7.D	03142319ECD7.D	Solid	03/14/23 15:45
LCS Dup	BLC0124-BSD1	03142320ECD7.D	03142320ECD7.D	Solid	03/14/23 16:06
Reference	BLC0124-SRM1	03142321ECD7.D	03142321ECD7.D	Solid	03/14/23 16:27
LDW23-SS1000	23C0071-01	03142326ECD7.D	03142326ECD7.D	Solid	03/14/23 18:12
LDW23-SS1037	23C0071-02	03142327ECD7.D	03142327ECD7.D	Solid	03/14/23 18:33
LDW23-SS1036	23C0071-03	03142328ECD7.D	03142328ECD7.D	Solid	03/14/23 18:53
LDW23-SS1044	23C0071-04	03142329ECD7.D	03142329ECD7.D	Solid	03/14/23 19:14
LDW23-SS1048	23C0071-05	03142330ECD7.D	03142330ECD7.D	Solid	03/14/23 19:35
LDW23-SS1054	23C0071-06	03142331ECD7.D	03142331ECD7.D	Solid	03/14/23 19:56
Calibration Check	SLC0203-CCV5	03142332ECD7.D	03142332ECD7.D	NA	03/14/23 20:17
Calibration Check	SLC0203-CCV6	03142333ECD7.D	03142333ECD7.D	NA	03/14/23 20:38
LDW23-SC1054	23C0071-08	03142334ECD7.D	03142334ECD7.D	Solid	03/14/23 20:59
LDW23-SC1048	23C0071-09	03142335ECD7.D	03142335ECD7.D	Solid	03/14/23 21:19
LDW23-SC1036	23C0071-10	03142336ECD7.D	03142336ECD7.D	Solid	03/14/23 21:40
LDW23-SC1036	BLC0124-MS1	03142337ECD7.D	03142337ECD7.D	Solid	03/14/23 22:01
LDW23-SC1036	BLC0124-MSD1	03142338ECD7.D	03142338ECD7.D	Solid	03/14/23 22:22
Calibration Check	SLC0203-CCV7	03142339ECD7.D	03142339ECD7.D	NA	03/14/23 22:43
Calibration Check	SLC0203-CCV8	03142340ECD7.D	03142340ECD7.D	NA	03/14/23 23:04

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS SEQUENCE

SLC0203

Instrument: ECD7
Calibration ID: GB00069

Printed: 3/15/2023 9:52:36AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
SLC0203-ICV1	QC		1		L000862	L000844		
SLC0203-ICV2	QC		2		L000856	L000844		
23C0039-05	8082A PCB Solid 4	A 01	3			L000844	HydroGeoLogic, Inc.	
23C0039-06	8082A PCB Solid 4	A 01	4			L000844	HydroGeoLogic, Inc.	
23C0039-08	8082A PCB Solid 4	A 01	5			L000844	HydroGeoLogic, Inc.	
23C0039-09	8082A PCB Solid 4	A 01	6			L000844	HydroGeoLogic, Inc.	
23C0039-10	8082A PCB Solid 4	A 01	7			L000844	HydroGeoLogic, Inc.	
SLC0203-CCV1	QC		8		L000861	L000844		
SLC0203-CCV2	QC		9		L000856	L000844		
BLC0141-BLK1	QC		10			L000844		
BLC0141-BS1	QC		11			L000844		
BLC0141-BSD1	QC		12			L000844		
23B0491-01	PCB (20 ug/kg) or (MTCA 0.	F 03	13			L000844	Seattle Public Utilities	
23B0491-02	PCB (20 ug/kg) or (MTCA 0.	F 03	14			L000844	Seattle Public Utilities	
SLC0203-CCV3	QC		15		L000860	L000844		
SLC0203-CCV4	QC		16		L000856	L000844		
BLC0124-BLK1	QC		17			L000844		
BLC0124-BS1	QC		18			L000844		
BLC0124-BSD1	QC		19			L000844		
BLC0124-SRM1	QC		20			L000844		
23C0064-01	8082A PCB Solid 4	A 03	21			L000844	GeoEngineers	

Samples Loaded By Date

Data Processed By Date

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS SEQUENCE

SLC0203

Instrument: ECD7
Calibration ID: GB00069

Printed: 3/15/2023 9:52:36AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
23C0064-02	8082A PCB Solid 4	A 03	22			L000844	GeoEngineers	
23C0064-03	8082A PCB Solid 4	A 03	23			L000844	GeoEngineers	
23C0064-04	8082A PCB Solid 4	A 03	24			L000844	GeoEngineers	
23C0071-01	8082A PCB Solid 4	A 03	25			L000844	Anchor QEA, LLC	
23C0071-02	8082A PCB Solid 4	A 03	26			L000844	Anchor QEA, LLC	
23C0071-03	8082A PCB Solid 4	A 03	27			L000844	Anchor QEA, LLC	
23C0071-04	8082A PCB Solid 4	A 03	28			L000844	Anchor QEA, LLC	
23C0071-05	8082A PCB Solid 4	A 03	29			L000844	Anchor QEA, LLC	
23C0071-06	8082A PCB Solid 4	A 03	30			L000844	Anchor QEA, LLC	
SLC0203-CCV5	QC		31		L000862	L000844		
SLC0203-CCV6	QC		32		L000856	L000844		
23C0071-08	8082A PCB Solid 4	A 01	33			L000844	Anchor QEA, LLC	
23C0071-09	8082A PCB Solid 4	A 01	34			L000844	Anchor QEA, LLC	
23C0071-10	8082A PCB Solid 4	A 01	35			L000844	Anchor QEA, LLC	
BLC0124-MS1	QC		36			L000844		
BLC0124-MSD1	QC		37			L000844		
SLC0203-CCV7	QC		38		L000861	L000844		
SLC0203-CCV8	QC		39		L000856	L000844		

Samples Loaded By Date

Data Processed By Date

GC LOG SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230314.b

	Inject Date/Time	Filename	DF	LabID	ClientID
1	14-MAR-2023 09:30	03142301ECD7.D	1	DDTS	
2	14-MAR-2023 09:51	03142302ECD7.D	1	AR1254ICV1	
3	14-MAR-2023 10:11	03142303ECD7.D	1	AR1660ICV2	
4	14-MAR-2023 10:32	03142304ECD7.D	5	23C0039-05RE1	
5	14-MAR-2023 10:53	03142305ECD7.D	5	23C0039-06RE1	
6	14-MAR-2023 11:14	03142306ECD7.D	5	23C0039-08RE1	
7	14-MAR-2023 11:35	03142307ECD7.D	5	23C0039-09RE1	
8	14-MAR-2023 11:56	03142308ECD7.D	5	23C0039-10RE1	
9	14-MAR-2023 12:17	03142309ECD7.D	1	AR1248CCV1	
10	14-MAR-2023 12:37	03142310ECD7.D	1	AR1660CCV2	
11	14-MAR-2023 12:58	03142311ECD7.D	1	BLC0141-BLK1	
12	14-MAR-2023 13:19	03142312ECD7.D	1	BLC0141-BS1	
13	14-MAR-2023 13:40	03142313ECD7.D	1	BLC0141-BSD1	
14	14-MAR-2023 14:01	03142314ECD7.D	1	23B0491-01	
15	14-MAR-2023 14:22	03142315ECD7.D	1	23B0491-02	
16	14-MAR-2023 14:43	03142316ECD7.D	1	AR1242CCV3	
17	14-MAR-2023 15:04	03142317ECD7.D	1	AR1660CCV4	
18	14-MAR-2023 15:24	03142318ECD7.D	1	BLC01~~23~~-BLK1	BLC0124
19	14-MAR-2023 15:45	03142319ECD7.D	1	BLC01~~23~~-BS1	BLC0124
20	14-MAR-2023 16:06	03142320ECD7.D	1	BLC0123-BSD1	BLC0124
21	14-MAR-2023 16:27	03142321ECD7.D	1	BLC0~~12~~3-SRM1	BLC0124
22	14-MAR-2023 16:48	03142322ECD7.D	1	23C0064-01	
23	14-MAR-2023 17:09	03142323ECD7.D	1	23C0064-02	
24	14-MAR-2023 17:30	03142324ECD7.D	1	23C0064-03	
25	14-MAR-2023 17:51	03142325ECD7.D	1	23C0064-04	
26	14-MAR-2023 18:12	03142326ECD7.D	1	23C0071-01	
27	14-MAR-2023 18:33	03142327ECD7.D	1	23C0071-02	
28	14-MAR-2023 18:53	03142328ECD7.D	1	23C0071-03	
29	14-MAR-2023 19:14	03142329ECD7.D	1	23C0071-04	
30	14-MAR-2023 19:35	03142330ECD7.D	1	23C0071-05	
31	14-MAR-2023 19:56	03142331ECD7.D	1	23C0071-06	
32	14-MAR-2023 20:17	03142332ECD7.D	1	AR1254CCV5	
33	14-MAR-2023 20:38	03142333ECD7.D	1	AR1660CCV6	
34	14-MAR-2023 20:59	03142334ECD7.D	1	23C0071-08	
35	14-MAR-2023 21:19	03142335ECD7.D	1	23C0071-09	
36	14-MAR-2023 21:40	03142336ECD7.D	1	23C0071-10	
37	14-MAR-2023 22:01	03142337ECD7.D	1	BLC0123-MS1	
38	14-MAR-2023 22:22	03142338ECD7.D	1	BLC0123-MSD1	
39	14-MAR-2023 22:43	03142339ECD7.D	1	AR1248CCV7	
40	14-MAR-2023 23:04	03142340ECD7.D	1	AR1660CCV8	

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230314.b

ARI Job No.: DDTS Method: PCB.m Instrument: ecd7.i Date: 14-MAR-2023

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0930	03142301ECD7.D	DDTS		1	NO MANUAL INTEGRATION
0951	03142302ECD7.D	AR1254ICV1		1	NO MANUAL INTEGRATION
1011	03142303ECD7.D	AR1660ICV2		1	NO MANUAL INTEGRATION
1032	03142304ECD7.D	23C0039-05RE1		5	Aroclor-1254,
1053	03142305ECD7.D	23C0039-06RE1		5	Aroclor-1254,
1114	03142306ECD7.D	23C0039-08RE1		5	Aroclor-1254,
1135	03142307ECD7.D	23C0039-09RE1		5	Aroclor-1254,
1156	03142308ECD7.D	23C0039-10RE1		5	Aroclor-1254,
1217	03142309ECD7.D	AR1248CCV1		1	Aroclor-1248,
1237	03142310ECD7.D	AR1660CCV2		1	NO MANUAL INTEGRATION
1258	03142311ECD7.D	BLC0141-BLK1		1	NO MANUAL INTEGRATION
1319	03142312ECD7.D	BLC0141-BS1		1	NO MANUAL INTEGRATION
1340	03142313ECD7.D	BLC0141-BSD1		1	NO MANUAL INTEGRATION
1401	03142314ECD7.D	23B0491-01		1	NO MANUAL INTEGRATION
1422	03142315ECD7.D	23B0491-02		1	NO MANUAL INTEGRATION
1443	03142316ECD7.D	AR1242CCV3		1	NO MANUAL INTEGRATION
1504	03142317ECD7.D	AR1660CCV4		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230314.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1524	03142318ECD7.D	BLC0123-BLK1		1	NO MANUAL INTEGRATION
1545	03142319ECD7.D	BLC0123-BS1		1	NO MANUAL INTEGRATION
1606	03142320ECD7.D	BLC0123-BSD1		1	NO MANUAL INTEGRATION
1627	03142321ECD7.D	BLC0123-SRM1		1	NO MANUAL INTEGRATION
1648	03142322ECD7.D	23C0064-01		1	NO MANUAL INTEGRATION
1709	03142323ECD7.D	23C0064-02		1	NO MANUAL INTEGRATION
1730	03142324ECD7.D	23C0064-03		1	NO MANUAL INTEGRATION
1751	03142325ECD7.D	23C0064-04		1	NO MANUAL INTEGRATION
1812	03142326ECD7.D	23C0071-01		1	Aroclor-1254,
1833	03142327ECD7.D	23C0071-02		1	Aroclor-1254,
1853	03142328ECD7.D	23C0071-03		1	NO MANUAL INTEGRATION
1914	03142329ECD7.D	23C0071-04		1	Aroclor-1254,
1935	03142330ECD7.D	23C0071-05		1	Aroclor-1254,
1956	03142331ECD7.D	23C0071-06		1	Aroclor-1254,
2017	03142332ECD7.D	AR1254CCV5		1	NO MANUAL INTEGRATION
2038	03142333ECD7.D	AR1660CCV6		1	NO MANUAL INTEGRATION
2059	03142334ECD7.D	23C0071-08		1	Aroclor-1254,
2119	03142335ECD7.D	23C0071-09		1	Aroclor-1254,

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230314.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
2140	03142336ECD7.D	23C0071-10		1	Aroclor-1254,
2201	03142337ECD7.D	BLC0123-MS1		1	NO MANUAL INTEGRATION
2222	03142338ECD7.D	BLC0123-MSD1		1	NO MANUAL INTEGRATION
2243	03142339ECD7.D	AR1248CCV7		1	Aroclor-1248,
2304	03142340ECD7.D	AR1660CCV8		1	NO MANUAL INTEGRATION
0930	03142301ECD7.D	DDTS		1	NO MANUAL INTEGRATION
0951	03142302ECD7.D	AR1254ICV1		1	NO MANUAL INTEGRATION
1011	03142303ECD7.D	AR1660ICV2		1	NO MANUAL INTEGRATION
1032	03142304ECD7.D	23C0039-05RE1		5	Aroclor-1248 [2C], Aroclor-1254 [2C],
1053	03142305ECD7.D	23C0039-06RE1		5	Aroclor-1248 [2C], Aroclor-1254 [2C],
1114	03142306ECD7.D	23C0039-08RE1		5	Aroclor-1248 [2C], Aroclor-1254 [2C],
1135	03142307ECD7.D	23C0039-09RE1		5	Aroclor-1248 [2C], Aroclor-1254 [2C],
1156	03142308ECD7.D	23C0039-10RE1		5	Aroclor-1248 [2C],
1217	03142309ECD7.D	AR1248CCV1		1	NO MANUAL INTEGRATION
1237	03142310ECD7.D	AR1660CCV2		1	NO MANUAL INTEGRATION
1258	03142311ECD7.D	BLC0141-BLK1		1	NO MANUAL INTEGRATION
1319	03142312ECD7.D	BLC0141-BS1		1	NO MANUAL INTEGRATION
1340	03142313ECD7.D	BLC0141-BSD1		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230314.b\230314.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1401	03142314ECD7.D	23B0491-01		1	NO MANUAL INTEGRATION
1422	03142315ECD7.D	23B0491-02		1	NO MANUAL INTEGRATION
1443	03142316ECD7.D	AR1242CCV3		1	NO MANUAL INTEGRATION
1504	03142317ECD7.D	AR1660CCV4		1	NO MANUAL INTEGRATION
1524	03142318ECD7.D	BLC0123-BLK1		1	NO MANUAL INTEGRATION
1545	03142319ECD7.D	BLC0123-BS1		1	NO MANUAL INTEGRATION
1606	03142320ECD7.D	BLC0123-BSD1		1	NO MANUAL INTEGRATION
1627	03142321ECD7.D	BLC0123-SRM1		1	NO MANUAL INTEGRATION
1648	03142322ECD7.D	23C0064-01		1	NO MANUAL INTEGRATION
1709	03142323ECD7.D	23C0064-02		1	NO MANUAL INTEGRATION
1730	03142324ECD7.D	23C0064-03		1	NO MANUAL INTEGRATION
1751	03142325ECD7.D	23C0064-04		1	NO MANUAL INTEGRATION
1812	03142326ECD7.D	23C0071-01		1	Aroclor-1248 [2C],
1833	03142327ECD7.D	23C0071-02		1	Aroclor-1248 [2C],
1853	03142328ECD7.D	23C0071-03		1	Aroclor-1248 [2C],
1914	03142329ECD7.D	23C0071-04		1	Aroclor-1248 [2C],
1935	03142330ECD7.D	23C0071-05		1	Aroclor-1248 [2C],
1956	03142331ECD7.D	23C0071-06		1	Aroclor-1248 [2C],

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230314.b\230314.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
2017	03142332ECD7.D	AR1254CCV5		1	NO MANUAL INTEGRATION
2038	03142333ECD7.D	AR1660CCV6		1	NO MANUAL INTEGRATION
2059	03142334ECD7.D	23C0071-08		1	Aroclor-1248 [2C],
2119	03142335ECD7.D	23C0071-09		1	Aroclor-1248 [2C],
2140	03142336ECD7.D	23C0071-10		1	Aroclor-1248 [2C],
2201	03142337ECD7.D	BLC0123-MS1		1	NO MANUAL INTEGRATION
2222	03142338ECD7.D	BLC0123-MSD1		1	NO MANUAL INTEGRATION
2243	03142339ECD7.D	AR1248CCV7		1	NO MANUAL INTEGRATION
2304	03142340ECD7.D	AR1660CCV8		1	NO MANUAL INTEGRATION

Security Status Report

Date: 15-Mar-2023 09:47

03142301ECD7.D	Data Locked	richardl, 15-Mar-2023 09:47
03142302ECD7.D	Data Locked	richardl, 15-Mar-2023 09:47
03142303ECD7.D	Data Locked	richardl, 15-Mar-2023 09:47
03142304ECD7.D	Data Locked	richardl, 15-Mar-2023 09:47
03142305ECD7.D	Data Locked	richardl, 15-Mar-2023 09:47
03142306ECD7.D	Data Locked	richardl, 15-Mar-2023 09:47
03142307ECD7.D	Data Locked	richardl, 15-Mar-2023 09:47
03142308ECD7.D	Data Locked	richardl, 15-Mar-2023 09:47
03142309ECD7.D	Data Locked	richardl, 15-Mar-2023 09:47
03142310ECD7.D	Data Locked	richardl, 15-Mar-2023 09:47
03142311ECD7.D	Data Locked	richardl, 15-Mar-2023 09:47
03142312ECD7.D	Data Locked	richardl, 15-Mar-2023 09:47
03142313ECD7.D	Data Locked	richardl, 15-Mar-2023 09:47
03142314ECD7.D	Data Locked	richardl, 15-Mar-2023 09:47
03142315ECD7.D	Data Locked	richardl, 15-Mar-2023 09:47
03142316ECD7.D	Data Locked	richardl, 15-Mar-2023 09:47
03142317ECD7.D	Data Locked	richardl, 15-Mar-2023 09:47
03142318ECD7.D	Data Locked	richardl, 15-Mar-2023 09:47
03142319ECD7.D	Data Locked	richardl, 15-Mar-2023 09:47
03142320ECD7.D	Data Locked	richardl, 15-Mar-2023 09:47
03142321ECD7.D	Data Locked	richardl, 15-Mar-2023 09:47
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03142323ECD7.D	Data Locked	richardl, 15-Mar-2023 09:47
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03142325ECD7.D	Data Locked	richardl, 15-Mar-2023 09:47
03142326ECD7.D	Data Locked	richardl, 15-Mar-2023 09:47
03142327ECD7.D	Data Locked	richardl, 15-Mar-2023 09:47
03142328ECD7.D	Data Locked	richardl, 15-Mar-2023 09:47
03142329ECD7.D	Data Locked	richardl, 15-Mar-2023 09:47
03142330ECD7.D	Data Locked	richardl, 15-Mar-2023 09:47
03142331ECD7.D	Data Locked	richardl, 15-Mar-2023 09:47
03142332ECD7.D	Data Locked	richardl, 15-Mar-2023 09:47
03142333ECD7.D	Data Locked	richardl, 15-Mar-2023 09:47
03142334ECD7.D	Data Locked	richardl, 15-Mar-2023 09:47
03142335ECD7.D	Data Locked	richardl, 15-Mar-2023 09:47
03142336ECD7.D	Data Locked	richardl, 15-Mar-2023 09:47
03142337ECD7.D	Data Locked	richardl, 15-Mar-2023 09:47
03142338ECD7.D	Data Locked	richardl, 15-Mar-2023 09:47
03142339ECD7.D	Data Locked	richardl, 15-Mar-2023 09:47
03142340ECD7.D	Data Locked	richardl, 15-Mar-2023 09:47

SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC
SDG/WO: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLB0342
Instrument: ECD7
Calibration: GB00069
Calibration Date: 02/24/2023

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SLB0342-SCV1 (Water)			Lab File ID: 02242313ECD7.D			Analyzed: 02/24/23 15:03		
Decachlorobiphenyl	40.000	85.8	80 - 120	13.894	13.89483	-0.0008	N/A	
Tetrachlorometaxylene	40.000	87.4	80 - 120	5.807	5.8095	-0.0025	N/A	
Decachlorobiphenyl [2C]	40.000	93.4	80 - 120	14.119	14.11917	-0.0002	N/A	
Tetrachlorometaxylene [2C]	40.000	89.4	80 - 120	5.685	5.687167	-0.0022	N/A	
SLB0342-SCV2 (Water)			Lab File ID: 02242314ECD7.D			Analyzed: 02/24/23 15:24		
Decachlorobiphenyl	40.000	92.5	80 - 120	13.895	13.89483	0.0002	N/A	
Tetrachlorometaxylene	40.000	84.1	80 - 120	5.808	5.8095	-0.0015	N/A	
Decachlorobiphenyl [2C]	40.000	101	80 - 120	14.12	14.11917	0.0008	N/A	
Tetrachlorometaxylene [2C]	40.000	86.3	80 - 120	5.686	5.687167	-0.0012	N/A	
SLB0342-SCV3 (Water)			Lab File ID: 02242315ECD7.D			Analyzed: 02/24/23 15:45		
Decachlorobiphenyl	40.000	82.8	80 - 120	13.893	13.89483	-0.0018	N/A	
Tetrachlorometaxylene	40.000	87.2	80 - 120	5.808	5.8095	-0.0015	N/A	
Decachlorobiphenyl [2C]	40.000	90.8	80 - 120	14.118	14.11917	-0.0012	N/A	
Tetrachlorometaxylene [2C]	40.000	91.0	80 - 120	5.687	5.687167	-0.0002	N/A	
SLB0342-SCV4 (Water)			Lab File ID: 02242316ECD7.D			Analyzed: 02/24/23 16:06		
Decachlorobiphenyl	40.000	86.6	80 - 120	13.894	13.89483	-0.0008	N/A	
Tetrachlorometaxylene	40.000	90.3	80 - 120	5.806	5.8095	-0.0035	N/A	
Decachlorobiphenyl [2C]	40.000	94.8	80 - 120	14.119	14.11917	-0.0002	N/A	
Tetrachlorometaxylene [2C]	40.000	92.7	80 - 120	5.685	5.687167	-0.0022	N/A	
SLB0342-SCV5 (Water)			Lab File ID: 02242317ECD7.D			Analyzed: 02/24/23 16:27		
Decachlorobiphenyl	40.000	86.1	80 - 120	13.894	13.89483	-0.0008	N/A	
Tetrachlorometaxylene	40.000	90.0	80 - 120	5.806	5.8095	-0.0035	N/A	
Decachlorobiphenyl [2C]	40.000	94.6	80 - 120	14.119	14.11917	-0.0002	N/A	
Tetrachlorometaxylene [2C]	40.000	91.6	80 - 120	5.685	5.687167	-0.0022	N/A	
SLB0342-SCV6 (Water)			Lab File ID: 02242318ECD7.D			Analyzed: 02/24/23 16:48		
Decachlorobiphenyl	40.000	128	80 - 120	13.893	13.89483	-0.0018	N/A	
Tetrachlorometaxylene	40.000	92.7	80 - 120	5.806	5.8095	-0.0035	N/A	
Decachlorobiphenyl [2C]	40.000	141	80 - 120	14.118	14.11917	-0.0012	N/A	
Tetrachlorometaxylene [2C]	40.000	95.4	80 - 120	5.685	5.687167	-0.0022	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC
SDG/WO: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLC0203
Instrument: ECD7
Calibration: GB00069
Calibration Date: 02/24/2023

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SLC0203-ICV1 (Solid)			Lab File ID: 03142302ECD7.D			Analyzed: 03/14/23 09:51		
Decachlorobiphenyl	40.000	102	80 - 120	13.896	13.89483	0.0012	N/A	
Tetrachlorometaxylene	40.000	94.5	80 - 120	5.808	5.8095	-0.0015	N/A	
Decachlorobiphenyl [2C]	40.000	94.5	80 - 120	14.12	14.11917	0.0008	N/A	
Tetrachlorometaxylene [2C]	40.000	94.0	80 - 120	5.688	5.687167	0.0008	N/A	
SLC0203-ICV2 (Solid)			Lab File ID: 03142303ECD7.D			Analyzed: 03/14/23 10:11		
Decachlorobiphenyl	40.000	105	80 - 120	13.894	13.89483	-0.0008	N/A	
Tetrachlorometaxylene	40.000	101	80 - 120	5.807	5.8095	-0.0025	N/A	
Decachlorobiphenyl [2C]	40.000	100	80 - 120	14.118	14.11917	-0.0012	N/A	
Tetrachlorometaxylene [2C]	40.000	99.3	80 - 120	5.688	5.687167	0.0008	N/A	
SLC0203-CCV1 (Solid)			Lab File ID: 03142309ECD7.D			Analyzed: 03/14/23 12:17		
Decachlorobiphenyl	40.000	95.3	80 - 120	13.893	13.89483	-0.0018	N/A	
Tetrachlorometaxylene	40.000	92.3	80 - 120	5.806	5.8095	-0.0035	N/A	
Decachlorobiphenyl [2C]	40.000	95.3	80 - 120	14.12	14.11917	0.0008	N/A	
Tetrachlorometaxylene [2C]	40.000	93.5	80 - 120	5.689	5.687167	0.0018	N/A	
SLC0203-CCV2 (Solid)			Lab File ID: 03142310ECD7.D			Analyzed: 03/14/23 12:37		
Decachlorobiphenyl	40.000	101	80 - 120	13.894	13.89483	-0.0008	N/A	
Tetrachlorometaxylene	40.000	98.8	80 - 120	5.807	5.8095	-0.0025	N/A	
Decachlorobiphenyl [2C]	40.000	102	80 - 120	14.119	14.11917	-0.0002	N/A	
Tetrachlorometaxylene [2C]	40.000	97.3	80 - 120	5.689	5.687167	0.0018	N/A	
SLC0203-CCV3 (Solid)			Lab File ID: 03142316ECD7.D			Analyzed: 03/14/23 14:43		
Decachlorobiphenyl	40.000	97.0	80 - 120	13.894	13.89483	-0.0008	N/A	
Tetrachlorometaxylene	40.000	114	80 - 120	5.806	5.8095	-0.0035	N/A	
Decachlorobiphenyl [2C]	40.000	93.3	80 - 120	14.12	14.11917	0.0008	N/A	
Tetrachlorometaxylene [2C]	40.000	113	80 - 120	5.688	5.687167	0.0008	N/A	
SLC0203-CCV4 (Solid)			Lab File ID: 03142317ECD7.D			Analyzed: 03/14/23 15:04		
Decachlorobiphenyl	40.000	106	80 - 120	13.893	13.89483	-0.0018	N/A	
Tetrachlorometaxylene	40.000	99.5	80 - 120	5.807	5.8095	-0.0025	N/A	
Decachlorobiphenyl [2C]	40.000	100	80 - 120	14.119	14.11917	-0.0002	N/A	
Tetrachlorometaxylene [2C]	40.000	97.5	80 - 120	5.69	5.687167	0.0028	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC
SDG/WO: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLC0203
Instrument: ECD7
Calibration: GB00069
Calibration Date: 02/24/2023

Surrogate Compound	Spike Level ug/kg wet	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
BLC0124-BLK1 (Solid)			Lab File ID: 03142318ECD7.D			Analyzed: 03/14/23 15:24		
Decachlorobiphenyl	8.0000	99.6	40 - 126	13.893	13.89483	-0.0018	N/A	
Tetrachlorometaxylene	8.0000	85.3	44 - 120	5.807	5.8095	-0.0025	N/A	
Decachlorobiphenyl [2C]	8.0000	99.3	40 - 126	14.119	14.11917	-0.0002	N/A	
Tetrachlorometaxylene [2C]	8.0000	82.2	44 - 120	5.688	5.687167	0.0008	N/A	
BLC0124-BS1 (Solid)			Lab File ID: 03142319ECD7.D			Analyzed: 03/14/23 15:45		
Decachlorobiphenyl	8.0000	95.8	40 - 126	13.893	13.89483	-0.0018	N/A	
Tetrachlorometaxylene	8.0000	82.0	44 - 120	5.807	5.8095	-0.0025	N/A	
Decachlorobiphenyl [2C]	8.0000	96.3	40 - 126	14.118	14.11917	-0.0012	N/A	
Tetrachlorometaxylene [2C]	8.0000	74.8	44 - 120	5.689	5.687167	0.0018	N/A	
BLC0124-BSD1 (Solid)			Lab File ID: 03142320ECD7.D			Analyzed: 03/14/23 16:06		
Decachlorobiphenyl	8.0000	92.0	40 - 126	13.891	13.89483	-0.0038	N/A	
Tetrachlorometaxylene	8.0000	77.4	44 - 120	5.806	5.8095	-0.0035	N/A	
Decachlorobiphenyl [2C]	8.0000	94.0	40 - 126	14.117	14.11917	-0.0022	N/A	
Tetrachlorometaxylene [2C]	8.0000	71.6	44 - 120	5.688	5.687167	0.0008	N/A	
BLC0124-SRM1 (Solid)			Lab File ID: 03142321ECD7.D			Analyzed: 03/14/23 16:27		
Decachlorobiphenyl	40.000	87.3	40 - 126	13.886	13.89483	-0.0088	N/A	
Tetrachlorometaxylene	40.000	73.6	44 - 120	5.805	5.8095	-0.0045	N/A	
Decachlorobiphenyl [2C]	40.000	79.6	40 - 126	14.114	14.11917	-0.0052	N/A	
Tetrachlorometaxylene [2C]	40.000	74.1	44 - 120	5.686	5.687167	-0.0012	N/A	
23C0071-01 (Solid)			Lab File ID: 03142326ECD7.D			Analyzed: 03/14/23 18:12		
Decachlorobiphenyl	7.9772	82.1	40 - 126	13.884	13.89483	-0.0108	N/A	
Tetrachlorometaxylene	7.9772	58.9	44 - 120	5.803	5.8095	-0.0065	N/A	
Decachlorobiphenyl [2C]	7.9772	74.2	40 - 126	14.111	14.11917	-0.0082	N/A	
Tetrachlorometaxylene [2C]	7.9772	61.9	44 - 120	5.682	5.687167	-0.0052	N/A	
23C0071-02 (Solid)			Lab File ID: 03142327ECD7.D			Analyzed: 03/14/23 18:33		
Decachlorobiphenyl	7.9630	86.7	40 - 126	13.885	13.89483	-0.0098	N/A	
Tetrachlorometaxylene	7.9630	66.3	44 - 120	5.804	5.8095	-0.0055	N/A	
Decachlorobiphenyl [2C]	7.9630	79.7	40 - 126	14.111	14.11917	-0.0082	N/A	
Tetrachlorometaxylene [2C]	7.9630	68.8	44 - 120	5.684	5.687167	-0.0032	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC
SDG/WO: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLC0203
Instrument: ECD7
Calibration: GB00069
Calibration Date: 02/24/2023

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
23C0071-03 (Solid)			Lab File ID: 03142328ECD7.D			Analyzed: 03/14/23 18:53		
Decachlorobiphenyl	7.9779	84.4	40 - 126	13.884	13.89483	-0.0108	N/A	
Tetrachlorometaxylene	7.9779	62.6	44 - 120	5.803	5.8095	-0.0065	N/A	
Decachlorobiphenyl [2C]	7.9779	78.9	40 - 126	14.11	14.11917	-0.0092	N/A	
Tetrachlorometaxylene [2C]	7.9779	65.8	44 - 120	5.683	5.687167	-0.0042	N/A	
23C0071-04 (Solid)			Lab File ID: 03142329ECD7.D			Analyzed: 03/14/23 19:14		
Decachlorobiphenyl	7.9852	86.8	40 - 126	13.883	13.89483	-0.0118	N/A	
Tetrachlorometaxylene	7.9852	64.3	44 - 120	5.803	5.8095	-0.0065	N/A	
Decachlorobiphenyl [2C]	7.9852	81.4	40 - 126	14.11	14.11917	-0.0092	N/A	
Tetrachlorometaxylene [2C]	7.9852	65.9	44 - 120	5.682	5.687167	-0.0052	N/A	
23C0071-05 (Solid)			Lab File ID: 03142330ECD7.D			Analyzed: 03/14/23 19:35		
Decachlorobiphenyl	8.0000	86.7	40 - 126	13.884	13.89483	-0.0108	N/A	
Tetrachlorometaxylene	8.0000	65.1	44 - 120	5.804	5.8095	-0.0055	N/A	
Decachlorobiphenyl [2C]	8.0000	79.1	40 - 126	14.109	14.11917	-0.0102	N/A	
Tetrachlorometaxylene [2C]	8.0000	67.6	44 - 120	5.683	5.687167	-0.0042	N/A	
23C0071-06 (Solid)			Lab File ID: 03142331ECD7.D			Analyzed: 03/14/23 19:56		
Decachlorobiphenyl	7.9958	86.8	40 - 126	13.884	13.89483	-0.0108	N/A	
Tetrachlorometaxylene	7.9958	65.0	44 - 120	5.802	5.8095	-0.0075	N/A	
Decachlorobiphenyl [2C]	7.9958	80.8	40 - 126	14.11	14.11917	-0.0092	N/A	
Tetrachlorometaxylene [2C]	7.9958	68.5	44 - 120	5.681	5.687167	-0.0062	N/A	
SLC0203-CCV5 (Solid)			Lab File ID: 03142332ECD7.D			Analyzed: 03/14/23 20:17		
Decachlorobiphenyl	40.000	98.0	80 - 120	13.894	13.89483	-0.0008	N/A	
Tetrachlorometaxylene	40.000	92.5	80 - 120	5.806	5.8095	-0.0035	N/A	
Decachlorobiphenyl [2C]	40.000	95.3	80 - 120	14.119	14.11917	-0.0002	N/A	
Tetrachlorometaxylene [2C]	40.000	93.3	80 - 120	5.688	5.687167	0.0008	N/A	
SLC0203-CCV6 (Solid)			Lab File ID: 03142333ECD7.D			Analyzed: 03/14/23 20:38		
Decachlorobiphenyl	40.000	107	80 - 120	13.894	13.89483	-0.0008	N/A	
Tetrachlorometaxylene	40.000	100	80 - 120	5.808	5.8095	-0.0015	N/A	
Decachlorobiphenyl [2C]	40.000	103	80 - 120	14.118	14.11917	-0.0012	N/A	
Tetrachlorometaxylene [2C]	40.000	99.3	80 - 120	5.69	5.687167	0.0028	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG/WO:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLC0203	Instrument:	ECD7
Calibration:	GB00069	Calibration Date:	02/24/2023

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
23C0071-08 (Solid)			Lab File ID: 03142334ECD7.D			Analyzed: 03/14/23 20:59		
Decachlorobiphenyl	7.9719	86.5	40 - 126	13.883	13.89483	-0.0118	N/A	
Tetrachlorometaxylene	7.9719	63.5	44 - 120	5.802	5.8095	-0.0075	N/A	
Decachlorobiphenyl [2C]	7.9719	79.7	40 - 126	14.109	14.11917	-0.0102	N/A	
Tetrachlorometaxylene [2C]	7.9719	67.9	44 - 120	5.681	5.687167	-0.0062	N/A	
23C0071-09 (Solid)			Lab File ID: 03142335ECD7.D			Analyzed: 03/14/23 21:19		
Decachlorobiphenyl	7.9750	86.8	40 - 126	13.885	13.89483	-0.0098	N/A	
Tetrachlorometaxylene	7.9750	62.8	44 - 120	5.803	5.8095	-0.0065	N/A	
Decachlorobiphenyl [2C]	7.9750	80.5	40 - 126	14.111	14.11917	-0.0082	N/A	
Tetrachlorometaxylene [2C]	7.9750	66.5	44 - 120	5.682	5.687167	-0.0052	N/A	
23C0071-10 (Solid)			Lab File ID: 03142336ECD7.D			Analyzed: 03/14/23 21:40		
Decachlorobiphenyl	7.9973	87.3	40 - 126	13.883	13.89483	-0.0118	N/A	
Tetrachlorometaxylene	7.9973	68.4	44 - 120	5.803	5.8095	-0.0065	N/A	
Decachlorobiphenyl [2C]	7.9973	81.7	40 - 126	14.111	14.11917	-0.0082	N/A	
Tetrachlorometaxylene [2C]	7.9973	70.2	44 - 120	5.683	5.687167	-0.0042	N/A	
BLC0124-MS1 (Solid)			Lab File ID: 03142337ECD7.D			Analyzed: 03/14/23 22:01		
Decachlorobiphenyl	8.0011	86.0	40 - 126	13.886	13.89483	-0.0088	N/A	
Tetrachlorometaxylene	8.0011	68.2	44 - 120	5.804	5.8095	-0.0055	N/A	
Decachlorobiphenyl [2C]	8.0011	79.8	40 - 126	14.11	14.11917	-0.0092	N/A	
Tetrachlorometaxylene [2C]	8.0011	68.1	44 - 120	5.683	5.687167	-0.0042	N/A	
BLC0124-MSD1 (Solid)			Lab File ID: 03142338ECD7.D			Analyzed: 03/14/23 22:22		
Decachlorobiphenyl	8.0011	83.3	40 - 126	13.885	13.89483	-0.0098	N/A	
Tetrachlorometaxylene	8.0011	65.6	44 - 120	5.803	5.8095	-0.0065	N/A	
Decachlorobiphenyl [2C]	8.0011	78.0	40 - 126	14.111	14.11917	-0.0082	N/A	
Tetrachlorometaxylene [2C]	8.0011	66.4	44 - 120	5.682	5.687167	-0.0052	N/A	
SLC0203-CCV7 (Solid)			Lab File ID: 03142339ECD7.D			Analyzed: 03/14/23 22:43		
Decachlorobiphenyl	40.000	97.5	80 - 120	13.895	13.89483	0.0002	N/A	
Tetrachlorometaxylene	40.000	94.0	80 - 120	5.807	5.8095	-0.0025	N/A	
Decachlorobiphenyl [2C]	40.000	94.5	80 - 120	14.119	14.11917	-0.0002	N/A	
Tetrachlorometaxylene [2C]	40.000	97.8	80 - 120	5.689	5.687167	0.0018	N/A	

SURROGATE RECOVERY AND RT SUMMARY

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG/WO:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLC0203	Instrument:	ECD7
Calibration:	GB00069	Calibration Date:	02/24/2023

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SLC0203-CCV8 (Solid)			Lab File ID: 03142340ECD7.D				Analyzed: 03/14/23 23:04	
Decachlorobiphenyl	40.000	106	80 - 120	13.894	13.89483	-0.0008	N/A	
Tetrachlorometaxylene	40.000	99.5	80 - 120	5.806	5.8095	-0.0035	N/A	
Decachlorobiphenyl [2C]	40.000	102	80 - 120	14.118	14.11917	-0.0012	N/A	
Tetrachlorometaxylene [2C]	40.000	101	80 - 120	5.688	5.687167	0.0008	N/A	

Analytical Resources, LLC
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLB0342	Instrument:	ECD7
		Calibration:	GB00069

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Secondary Cal Check (SLB0342-SCV1)		(Water)	Lab File ID: 02242313ECD7.D				Analyzed: 02/24/23 15:03		
1-Bromo-2-Nitrobenzene	645975	3.489	673778	3.493	96	50 - 200	-0.004	+/-0.50	
Hexabromobiphenyl	1524245	14.268	1429847	14.268	107	50 - 200	0.000	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	316115	3.927	315256	3.928	100	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl [2C]	556950	15.007	513946	15.008	108	50 - 200	-0.001	+/-0.50	
Secondary Cal Check (SLB0342-SCV2)		(Water)	Lab File ID: 02242314ECD7.D				Analyzed: 02/24/23 15:24		
1-Bromo-2-Nitrobenzene	705650	3.493	673778	3.493	105	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	1555683	14.267	1429847	14.268	109	50 - 200	-0.001	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	340433	3.929	315256	3.928	108	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl [2C]	565609	15.008	513946	15.008	110	50 - 200	0.000	+/-0.50	
Secondary Cal Check (SLB0342-SCV3)		(Water)	Lab File ID: 02242315ECD7.D				Analyzed: 02/24/23 15:45		
1-Bromo-2-Nitrobenzene	646554	3.49	673778	3.493	96	50 - 200	-0.003	+/-0.50	
Hexabromobiphenyl	1529451	14.268	1429847	14.268	107	50 - 200	0.000	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	316066	3.928	315256	3.928	100	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	557213	15.008	513946	15.008	108	50 - 200	0.000	+/-0.50	
Secondary Cal Check (SLB0342-SCV4)		(Water)	Lab File ID: 02242316ECD7.D				Analyzed: 02/24/23 16:06		
1-Bromo-2-Nitrobenzene	656887	3.488	673778	3.493	97	50 - 200	-0.005	+/-0.50	
Hexabromobiphenyl	1585505	14.267	1429847	14.268	111	50 - 200	-0.001	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	320936	3.925	315256	3.928	102	50 - 200	-0.003	+/-0.50	
Hexabromobiphenyl [2C]	570006	15.007	513946	15.008	111	50 - 200	-0.001	+/-0.50	
Secondary Cal Check (SLB0342-SCV5)		(Water)	Lab File ID: 02242317ECD7.D				Analyzed: 02/24/23 16:27		
1-Bromo-2-Nitrobenzene	661953	3.489	673778	3.493	98	50 - 200	-0.004	+/-0.50	
Hexabromobiphenyl	1574993	14.268	1429847	14.268	110	50 - 200	0.000	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	317807	3.926	315256	3.928	101	50 - 200	-0.002	+/-0.50	
Hexabromobiphenyl [2C]	565951	15.007	513946	15.008	110	50 - 200	-0.001	+/-0.50	
Secondary Cal Check (SLB0342-SCV6)		(Water)	Lab File ID: 02242318ECD7.D				Analyzed: 02/24/23 16:48		
1-Bromo-2-Nitrobenzene	656592	3.489	673778	3.493	97	50 - 200	-0.004	+/-0.50	
Hexabromobiphenyl	1584453	14.268	1429847	14.268	111	50 - 200	0.000	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	314741	3.926	315256	3.928	100	50 - 200	-0.002	+/-0.50	
Hexabromobiphenyl [2C]	568346	15.007	513946	15.008	111	50 - 200	-0.001	+/-0.50	

Analytical Resources, LLC
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8082A

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLC0203

SDG: 23C0071
Project: AOC5 MR Phase 1
Instrument: ECD7
Calibration: GB00069

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (SLC0203-ICV1)		(Solid)	Lab File ID: 03142302ECD7.D				Analyzed: 03/14/23 09:51		
1-Bromo-2-Nitrobenzene	431215	3.489	431215	3.489	100	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	716208	14.268	716208	14.268	100	50 - 200	0.000	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	343245	3.927	343245	3.927	100	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	473264	15.009	473264	15.009	100	50 - 200	0.000	+/-0.50	
Initial Cal Check (SLC0203-ICV2)		(Solid)	Lab File ID: 03142303ECD7.D				Analyzed: 03/14/23 10:11		
1-Bromo-2-Nitrobenzene	405151	3.488	405151	3.488	100	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	709440	14.267	709440	14.267	100	50 - 200	0.000	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	321714	3.928	321714	3.928	100	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	460374	15.008	460374	15.008	100	50 - 200	0.000	+/-0.50	
Blank (BLC0124-BLK1)		(Solid)	Lab File ID: 03142318ECD7.D				Analyzed: 03/14/23 15:24		
1-Bromo-2-Nitrobenzene	469052	3.488	405151	3.488	116	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	694888	14.267	709440	14.267	98	50 - 200	0.000	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	385225	3.928	321714	3.928	120	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	497244	15.008	460374	15.008	108	50 - 200	0.000	+/-0.50	
LCS (BLC0124-BS1)		(Solid)	Lab File ID: 03142319ECD7.D				Analyzed: 03/14/23 15:45		
1-Bromo-2-Nitrobenzene	480282	3.489	405151	3.488	119	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl	758464	14.265	709440	14.267	107	50 - 200	-0.002	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	391878	3.928	321714	3.928	122	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	540905	15.006	460374	15.008	117	50 - 200	-0.002	+/-0.50	
LCS Dup (BLC0124-BSD1)		(Solid)	Lab File ID: 03142320ECD7.D				Analyzed: 03/14/23 16:06		
1-Bromo-2-Nitrobenzene	488354	3.488	405151	3.488	121	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	808973	14.264	709440	14.267	114	50 - 200	-0.003	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	395768	3.928	321714	3.928	123	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	569500	15.005	460374	15.008	124	50 - 200	-0.003	+/-0.50	
Reference (BLC0124-SRM1)		(Solid)	Lab File ID: 03142321ECD7.D				Analyzed: 03/14/23 16:27		
1-Bromo-2-Nitrobenzene	479121	3.488	405151	3.488	118	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	616918	14.255	709440	14.267	87	50 - 200	-0.012	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	377331	3.927	321714	3.928	117	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl [2C]	498712	15	460374	15.008	108	50 - 200	-0.008	+/-0.50	

Analytical Resources, LLC
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLC0203	Instrument:	ECD7
		Calibration:	GB00069

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
LDW23-SS1000 (23C0071-01)		(Solid)	Lab File ID: 03142326ECD7.D				Analyzed: 03/14/23 18:12		
1-Bromo-2-Nitrobenzene	444429	3.487	405151	3.488	110	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl	411513	14.25	709440	14.267	58	50 - 200	-0.017	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	358191	3.927	321714	3.928	111	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl [2C]	375766	14.995	460374	15.008	82	50 - 200	-0.013	+/-0.50	
LDW23-SS1037 (23C0071-02)		(Solid)	Lab File ID: 03142327ECD7.D				Analyzed: 03/14/23 18:33		
1-Bromo-2-Nitrobenzene	437232	3.488	405151	3.488	108	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	421164	14.25	709440	14.267	59	50 - 200	-0.017	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	363239	3.928	321714	3.928	113	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	378688	14.995	460374	15.008	82	50 - 200	-0.013	+/-0.50	
LDW23-SS1036 (23C0071-03)		(Solid)	Lab File ID: 03142328ECD7.D				Analyzed: 03/14/23 18:53		
1-Bromo-2-Nitrobenzene	443319	3.487	405151	3.488	109	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl	405199	14.251	709440	14.267	57	50 - 200	-0.016	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	362936	3.927	321714	3.928	113	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl [2C]	366678	14.995	460374	15.008	80	50 - 200	-0.013	+/-0.50	
LDW23-SS1044 (23C0071-04)		(Solid)	Lab File ID: 03142329ECD7.D				Analyzed: 03/14/23 19:14		
1-Bromo-2-Nitrobenzene	446487	3.487	405151	3.488	110	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl	400561	14.249	709440	14.267	56	50 - 200	-0.018	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	371624	3.926	321714	3.928	116	50 - 200	-0.002	+/-0.50	
Hexabromobiphenyl [2C]	363756	14.995	460374	15.008	79	50 - 200	-0.013	+/-0.50	
LDW23-SS1048 (23C0071-05)		(Solid)	Lab File ID: 03142330ECD7.D				Analyzed: 03/14/23 19:35		
1-Bromo-2-Nitrobenzene	432095	3.488	405151	3.488	107	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	402676	14.25	709440	14.267	57	50 - 200	-0.017	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	358271	3.928	321714	3.928	111	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	374319	14.995	460374	15.008	81	50 - 200	-0.013	+/-0.50	
LDW23-SS1054 (23C0071-06)		(Solid)	Lab File ID: 03142331ECD7.D				Analyzed: 03/14/23 19:56		
1-Bromo-2-Nitrobenzene	428863	3.487	405151	3.488	106	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl	399444	14.251	709440	14.267	56	50 - 200	-0.016	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	350244	3.926	321714	3.928	109	50 - 200	-0.002	+/-0.50	
Hexabromobiphenyl [2C]	373056	14.995	460374	15.008	81	50 - 200	-0.013	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLC0203
Instrument: ECD7
Calibration: GB00069

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
LDW23-SC1054 (23C0071-08)		(Solid)	Lab File ID: 03142334ECD7.D				Analyzed: 03/14/23 20:59		
1-Bromo-2-Nitrobenzene	444145	3.486	405151	3.488	110	50 - 200	-0.002	+/-0.50	
Hexabromobiphenyl	412748	14.25	709440	14.267	58	50 - 200	-0.017	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	346150	3.926	321714	3.928	108	50 - 200	-0.002	+/-0.50	
Hexabromobiphenyl [2C]	380434	14.993	460374	15.008	83	50 - 200	-0.015	+/-0.50	
LDW23-SC1048 (23C0071-09)		(Solid)	Lab File ID: 03142335ECD7.D				Analyzed: 03/14/23 21:19		
1-Bromo-2-Nitrobenzene	439668	3.486	405151	3.488	109	50 - 200	-0.002	+/-0.50	
Hexabromobiphenyl	396001	14.25	709440	14.267	56	50 - 200	-0.017	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	358192	3.926	321714	3.928	111	50 - 200	-0.002	+/-0.50	
Hexabromobiphenyl [2C]	364125	14.995	460374	15.008	79	50 - 200	-0.013	+/-0.50	
LDW23-SC1036 (23C0071-10)		(Solid)	Lab File ID: 03142336ECD7.D				Analyzed: 03/14/23 21:40		
1-Bromo-2-Nitrobenzene	448357	3.486	405151	3.488	111	50 - 200	-0.002	+/-0.50	
Hexabromobiphenyl	409018	14.25	709440	14.267	58	50 - 200	-0.017	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	369327	3.926	321714	3.928	115	50 - 200	-0.002	+/-0.50	
Hexabromobiphenyl [2C]	369531	14.994	460374	15.008	80	50 - 200	-0.014	+/-0.50	
Matrix Spike (BLC0124-MS1)		(Solid)	Lab File ID: 03142337ECD7.D				Analyzed: 03/14/23 22:01		
1-Bromo-2-Nitrobenzene	446587	3.489	405151	3.488	110	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl	412496	14.25	709440	14.267	58	50 - 200	-0.017	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	369647	3.927	321714	3.928	115	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl [2C]	371828	14.996	460374	15.008	81	50 - 200	-0.012	+/-0.50	
Matrix Spike Dup (BLC0124-MSD1)		(Solid)	Lab File ID: 03142338ECD7.D				Analyzed: 03/14/23 22:22		
1-Bromo-2-Nitrobenzene	457422	3.488	405151	3.488	113	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	423605	14.25	709440	14.267	60	50 - 200	-0.017	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	379627	3.927	321714	3.928	118	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl [2C]	377592	14.995	460374	15.008	82	50 - 200	-0.013	+/-0.50	

Analytical Resources, LLC
Analytical Chemists and Consultants

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	23C0071
Client:	Anchor QEA, LLC			Project:	AOC5 MR Phase 1
Matrix:	Sediment	Laboratory ID:	23C0071-01	File ID:	03142326ECD7.D
Sampled:	03/02/23 09:33	Prepared:	03/07/23 13:30	Analyzed:	03/14/23 18:12
Solids:	46.24	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BLC0124	Sequence:	SLC0203		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	* 1	8.394	8.405	0.011	70760.25	45.5	9.9
	2	8.297	8.307	0.01	38256	41.2	
Aroclor 1254	1	9.284	9.298	0.014	98576.2	52.0	24.6
	* 2	9.436	9.449	0.013	117132.8	66.6	
Aroclor 1260	1	11.031	11.04467	0.0137	72205	71.0	14.7
	* 2	11.639	11.6535	0.0145	90833	61.3	

* Column used for quantitation

Analytical Resources, LLC
Analytical Chemists and Consultants

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	23C0071
Client:	Anchor QEA, LLC			Project:	AOC5 MR Phase 1
Matrix:	Sediment	Laboratory ID:	23C0071-02	File ID:	03142327ECD7.D
Sampled:	03/02/23 09:56	Prepared:	03/07/23 13:30	Analyzed:	03/14/23 18:33
Solids:	50.76	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BLC0124	Sequence:	SLC0203		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	* 1	8.395	8.405	0.01	40187.75	26.3	5.5
	2	8.298	8.307	0.009	23156.25	24.9	
Aroclor 1254	1	9.284	9.298	0.014	55217.6	30.6	20.
	* 2	9.437	9.449	0.012	66951.2	37.4	
Aroclor 1260	1	11.031	11.04467	0.0137	35885	35.1	12.1
	* 2	11.641	11.6535	0.0125	46241	31.1	

* Column used for quantitation

Analytical Resources, LLC
Analytical Chemists and Consultants

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	23C0071
Client:	Anchor QEA, LLC			Project:	AOC5 MR Phase 1
Matrix:	Sediment	Laboratory ID:	23C0071-03	File ID:	03142328ECD7.D
Sampled:	03/02/23 10:10	Prepared:	03/07/23 13:30	Analyzed:	03/14/23 18:53
Solids:	47.57	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BLC0124	Sequence:	SLC0203		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	* 1	8.395	8.405	0.01	55100.5	35.4	5.5
	2	8.298	8.307	0.009	31603.75	33.5	
Aroclor 1254	1	9.284	9.298	0.014	92567	41.9	23.9
	* 2	9.437	9.449	0.012	94946.6	53.3	
Aroclor 1260	1	11.032	11.04467	0.0127	51576.6	53.0	10.7
	* 2	11.641	11.6535	0.0125	68815	47.6	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	23C0071
Client:	Anchor QEA, LLC			Project:	AOC5 MR Phase 1
Matrix:	Sediment	Laboratory ID:	23C0071-04	File ID:	03142329ECD7.D
Sampled:	03/02/23 10:22	Prepared:	03/07/23 13:30	Analyzed:	03/14/23 19:14
Solids:	47.78	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BLC0124	Sequence:	SLC0203		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	* 1	8.394	8.405	0.011	50363	32.5	10.
	2	8.297	8.307	0.01	29013.25	29.4	
Aroclor 1254	1	9.284	9.298	0.014	69267.4	37.7	23.
	* 2	9.436	9.449	0.013	86598	47.5	
Aroclor 1260	1	11.03	11.04467	0.0147	49872.6	50.9	11.2
	* 2	11.64	11.6535	0.0135	65454.25	45.5	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	23C0071
Client:	Anchor QEA, LLC			Project:	AOC5 MR Phase 1
Matrix:	Sediment	Laboratory ID:	23C0071-05	File ID:	03142330ECD7.D
Sampled:	03/02/23 10:32	Prepared:	03/07/23 13:30	Analyzed:	03/14/23 19:35
Solids:	50.00	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BLC0124	Sequence:	SLC0203		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	1	8.394	8.405	0.011	68651.5	46.1	3.2
	* 2	8.297	8.307	0.01	40822.5	47.6	
Aroclor 1254	1	9.283	9.298	0.015	79414.4	45.5	23.6
	* 2	9.436	9.449	0.013	101213.4	57.7	
Aroclor 1260	1	11.031	11.04467	0.0137	57166.4	59.1	14.5
	* 2	11.64	11.6535	0.0135	76083.5	51.1	

* Column used for quantitation

Analytical Resources, LLC
Analytical Chemists and Consultants

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	23C0071
Client:	Anchor QEA, LLC			Project:	AOC5 MR Phase 1
Matrix:	Sediment	Laboratory ID:	23C0071-06	File ID:	03142331ECD7.D
Sampled:	03/02/23 10:41	Prepared:	03/07/23 13:30	Analyzed:	03/14/23 19:56
Solids:	50.43	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BLC0124	Sequence:	SLC0203		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	1	8.395	8.405	0.01	127590.3	87.6	23.6
	* 2	8.297	8.307	0.01	107136.5	111	
Aroclor 1254	1	9.283	9.298	0.015	115754.4	63.2	23.8
	* 2	9.436	9.449	0.013	138367.2	80.3	
Aroclor 1260	1	11.03	11.04467	0.0147	76091.8	79.5	19.8
	* 2	11.64	11.6535	0.0135	98968.5	65.2	

* Column used for quantitation

Analytical Resources, LLC
Analytical Chemists and Consultants

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	23C0071
Client:	Anchor QEA, LLC			Project:	AOC5 MR Phase 1
Matrix:	Sediment	Laboratory ID:	23C0071-08	File ID:	03142334ECD7.D
Sampled:	03/02/23 11:56	Prepared:	03/07/23 13:30	Analyzed:	03/14/23 20:59
Solids:	55.48	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BLC0124	Sequence:	SLC0203		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	1	8.395	8.405	0.01	140081.8	92.4	34.6
	* 2	8.297	8.307	0.01	95014	131	
Aroclor 1254	1	9.283	9.298	0.015	135641.6	61.0	20.1
	* 2	9.436	9.449	0.013	129036.2	74.6	
Aroclor 1260	1	11.031	11.04467	0.0137	72747.2	74.7	20.4
	* 2	11.64	11.6535	0.0135	93652.75	60.9	

* Column used for quantitation

Analytical Resources, LLC
Analytical Chemists and Consultants

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	23C0071
Client:	Anchor QEA, LLC			Project:	AOC5 MR Phase 1
Matrix:	Sediment	Laboratory ID:	23C0071-09	File ID:	03142335ECD7.D
Sampled:	03/02/23 12:27	Prepared:	03/07/23 13:30	Analyzed:	03/14/23 21:19
Solids:	51.39	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BLC0124	Sequence:	SLC0203		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	* 1	8.395	8.405	0.01	60122.5	38.9	5.
	2	8.297	8.307	0.01	34331	37.0	
Aroclor 1254	1	9.284	9.298	0.014	79409.8	43.0	27.1
	* 2	9.435	9.449	0.014	99663	56.5	
Aroclor 1260	1	11.031	11.04467	0.0137	60188.4	63.5	14.2
	* 2	11.641	11.6535	0.0125	80708.75	55.1	

* Column used for quantitation

Analytical Resources, LLC
Analytical Chemists and Consultants

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	23C0071
Client:	Anchor QEA, LLC			Project:	AOC5 MR Phase 1
Matrix:	Sediment	Laboratory ID:	23C0071-10	File ID:	03142336ECD7.D
Sampled:	03/02/23 14:09	Prepared:	03/07/23 13:30	Analyzed:	03/14/23 21:40
Solids:	58.65	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BLC0124	Sequence:	SLC0203		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	* 1	8.395	8.405	0.01	39143	25.0	8.3
	2	8.298	8.307	0.009	22194.25	23.0	
Aroclor 1254	1	9.285	9.298	0.013	57143.2	30.5	19.
	* 2	9.436	9.449	0.013	66379.2	36.9	
Aroclor 1260	1	11.031	11.04467	0.0137	39579.8	40.3	13.2
	* 2	11.641	11.6535	0.0125	52015.25	35.3	

* Column used for quantitation

HOLDING TIME SUMMARY

Analysis: EPA 8082A

Laboratory: Analytical Resources, LLC SDG: 23C0071

Client: Anchor QEA, LLC Project: AOC5 MR Phase 1

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
LDW23-SS1000 23C0071-01	03/02/23 09:33	03/02/23 16:34	03/07/23 13:30	5	365	03/14/23 18:12	7	40	
LDW23-SS1037 23C0071-02	03/02/23 09:56	03/02/23 16:34	03/07/23 13:30	5	365	03/14/23 18:33	7	40	
LDW23-SS1036 23C0071-03	03/02/23 10:10	03/02/23 16:34	03/07/23 13:30	5	365	03/14/23 18:53	7	40	
LDW23-SS1044 23C0071-04	03/02/23 10:22	03/02/23 16:34	03/07/23 13:30	5	365	03/14/23 19:14	7	40	
LDW23-SS1048 23C0071-05	03/02/23 10:32	03/02/23 16:34	03/07/23 13:30	5	365	03/14/23 19:35	7	40	
LDW23-SS1054 23C0071-06	03/02/23 10:41	03/02/23 16:34	03/07/23 13:30	5	365	03/14/23 19:56	7	40	
LDW23-SC1054 23C0071-08	03/02/23 11:56	03/02/23 16:34	03/07/23 13:30	5	365	03/14/23 20:59	7	40	
LDW23-SC1048 23C0071-09	03/02/23 12:27	03/02/23 16:34	03/07/23 13:30	5	365	03/14/23 21:19	7	40	
LDW23-SC1036 23C0071-10	03/02/23 14:09	03/02/23 16:34	03/07/23 13:30	4	365	03/14/23 21:40	7	40	
Matrix Spike BLC0124-MS1	03/02/23 14:09	03/02/23 16:34	03/07/23 13:30	4	365	03/14/23 22:01	7	40	
Matrix Spike Dup BLC0124-MSD1	03/02/23 14:09	03/02/23 16:34	03/07/23 13:30	4	365	03/14/23 22:22	7	40	

* Indicates hold time exceedance.

METHOD DETECTION AND REPORTING LIMITS

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Matrix: Solid
Instrument: ECD7

Analyte	MDL	RL	Units
Aroclor 1016	1.6	4.0	ug/kg
Aroclor 1016 [2C]	1.6	4.0	ug/kg
Aroclor 1221	1.6	4.0	ug/kg
Aroclor 1221 [2C]	1.6	4.0	ug/kg
Aroclor 1232	1.6	4.0	ug/kg
Aroclor 1232 [2C]	1.6	4.0	ug/kg
Aroclor 1242	1.6	4.0	ug/kg
Aroclor 1242 [2C]	1.6	4.0	ug/kg
Aroclor 1248	1.6	4.0	ug/kg
Aroclor 1248 [2C]	1.6	4.0	ug/kg
Aroclor 1254	1.6	4.0	ug/kg
Aroclor 1254 [2C]	1.6	4.0	ug/kg
Aroclor 1260	0.6	4.0	ug/kg
Aroclor 1260 [2C]	0.6	4.0	ug/kg

125 Market Street
New Haven, CT 06513
USA

AccuStandard® Inc.

Tel (203)786-5290
Fax (203)786-5287
www.AccuStandard.com

CERTIFICATE OF ANALYSIS

Catalog No: S-279N
Description: Tetrachloro-m-xylene
Lot: 0052481B-1
Solvent: N/A
Hazards: *Refer to SDS for complete safety information*

Signal Word: Warning

Date Certified: Jul 28, 2005
Expiration: Jul 28, 2015
Sample Size: 100 mg
Components: 1
Storage Condition: Ambient (>5 °C)

Certified Reference Material

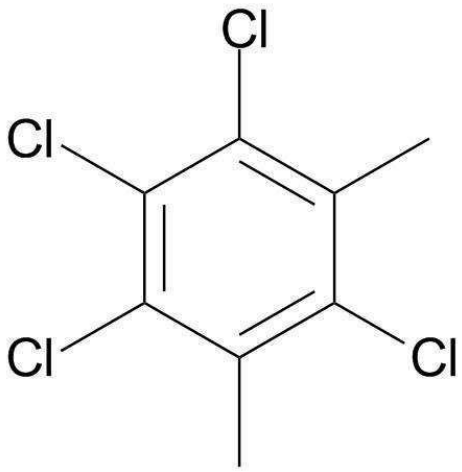
ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER AR-1463

ilac-MRA

Component	CAS #	Purity % (GC/FID)	Prepared Concentration	Certified Analyte Concentration[1]
Tetrachloro-meta-xylene	877-09-8	96.0	N/A	N/A

Identification:

Molecular formula: C8H6Cl4
Molecular weight: 243.94



C000147
tetrachlormetaxylene
Expires 1/15/2020
Prepared By Joshua Rains 1/15/2014

This Certified Reference Material was verified in accordance with ISO/IEC 17025

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

[1] The Uncertainty calculated for this product is ±2.4%. These values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

Metrological traceability is established through in-house validated methods.

Purity, if stated, is equal to 100% minus found impurity components. Impurity components have not been identified.

Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By: Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

AccuStandard is accredited to ISO 17034, ISO/IEC 17025 and certified to ISO 9001:2015

QR-ORG/INO-001
Rev. 5/18

AccuStandard
125 Market Street
New Haven, CT 06513
(203) 786-5290

CERTIFICATE OF PRODUCT DATA

PRODUCT: C-209N
DESCRIPTION: 2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl
LOT #: 990521LB-AC
SOLVENT: N/A

EXPIRATION: Jul 28, 2015

This product is guaranteed accurate to ±0.5% of the Certified Analyte concentration through the Expiration Date on the Label.

Component	CAS #	Purity % (GC/MS)	Prepared Concentration[1]	Certified Analyte Concentration[2]
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	2051-24-3	100	N/A	N/A

C000148
decachlorbiphenyl
Expires 1/15/2020
Prepared By Joshua Rains 1/15/2014

* I1768A

Certified by: R. Cooper

1. All weights are traceable through National Institute of Standards & Technology, Test No. 822/254480
2. Certified Analyte Concentration = Purity x Prepared Concentration. The Uncertainty calculated for this product is ±4% which is the Combined Uncertainty uc(y). It represents an estimated standard deviation equal to the positive square root of the total variance of the uncertainty of components. The Expanded Uncertainty is U which is Uc(y) *K where K is the coverage factor at the 95% confidence level (K=2).
3. A product with a suffix (-1A, -2B, etc.) on its lot# has had its expiration date extended and is identical to the same lot# without the suffix.

Please note: AccuStandard follows the U.S. conventions in reporting numerical values, on both certificates and labels.

A comma (,) is used to separate units of one-thousand or greater.
A period (.) is used as a decimal place marker.

This product was manufactured in accordance to quality system requirements of ISO 9001:2000 and ISO 17025

* Recertified 2 4-6-09 JS

Analytical Standard Record

Standard ID: C000148 **Printed: 4/23/2015 11:54:44AM**

Description:	decachlorbiphenyl	Expires:	15-Jan-2020
Standard Type:	Other	Prepared:	15-Jan-2014
Solvent:	na/a	Prepared By:	Joshua Rains
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	27-Feb-2015 13:03 by JGR
Vendor:	Accustandard	Lot #:	990521lb-ac
Vendor Catalog #:			

Comments

see i1768a
SOM calibrations added 06/12/14 sdrd

Analyte	CAS Number	Concentration	Units
Decachlorobiphenyl [2C]	2051-24-3	1000000	ug/mL
Decachlorobiphenyl	2051-24-3	1000000	ug/mL
DCB 1660 [2C]	2051-24-3	1000000	ug/mL
DCB 1660	2051-24-3	1000000	ug/mL
DCB [2C]	2051-24-3	1000000	ug/mL
DCB (A) [2C]	2051-24-3	1000000	ug/mL
DCB (A)	2051-24-3	1000000	ug/mL
DCB	2051-24-3	1000000	ug/mL

Reviewed By Date

Certificate of Analysis

Phenova Certified Reference Materials are sold by Phenomenex.
411 Madrid Ave., Torrance, CA 90501 USA ■ Tel: 310-212-0555 ■ Fax: 310-328-7768 ■ info@phenomenex.com
Access your MSDS and digital C of A at **www.phenomenex.com/mysupport. Re-order at www.phenomenex.com/standards**

Certified Reference Material

This product is included in Phenova's ISO/IEC 17025 and ISO Guide 34 Scopes of Accreditation

Catalog No.: AL0-101461
Description: Aroclor 1254
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Hexane

Lot Number: CL13053
Certification Date: November 29, 2018
Expiration Date: November 30, 2026

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aroclor 1254	11097-69-1	1000	± 0.246%

I09808
Recd. JP
02/24/20

ACCREDITED
Reference Material Producer
Certificate No. 2427.02

phenova Certified Reference Materials
Manufactured by Phenova, Inc.
Phenova's testing and calibration results are internationally recognized through the ILAC MRA. Phenova is an accredited ISO Guide 34 Reference Material Provider and ISO/IEC 17025 accredited Chemical Testing Laboratory.

ilac-MRA ACCREDITED
Chemical Testing Laboratory
Certificate No. 2427.03

IL111110613_us

Certificate of Analysis

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Certified Reference Materials

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Access your Safety Data Sheets and digital Certificates at **www.phenova.com/documents.**

Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101468
Description: Aroclor 1221
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Isooctane

Lot Number: CL14017
Certification Date: August 20, 2019
Expiration Date: August 31, 2027

Andrea L Gill
Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aroclor 1221	11104-28-2	1000	± 0.553%

J004466
Rec'd
06/18/21

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Reference Material Producer
Certicate No. 2427.02

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Certified Reference Materials

Phenova is an accredited ISO/IEC 17034 Reference Material Producer and ISO/IEC 17025 accredited Chemical Testing Laboratory.

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Chemical Testing Laboratory
Certicate No. 2427.03

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1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31[1] and ISO Guide 35.[2]

2. Quality Standards: Phenova is accredited by A2LA to ISO 17034[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.

4. Handling and Usage Notes: Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.

12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

[1] ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
[3] ISO 17034 – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101469
Description: Aroclor 1232
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Isooctane

Lot Number: CL14914
Certification Date: January 31, 2020
Expiration Date: January 31, 2028

Andrea L Gill
Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aroclor 1232	11141-16-5	1000	± 0.738%

J006467 JR
read
06/18/21

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1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31[1] and ISO Guide 35.[2]

2. Quality Standards: Phenova is accredited by A2LA to ISO 17034[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.

4. Handling and Usage Notes: Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.

12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

[1] ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
[3] ISO 17034 – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.:	AL0-101470	**Lot Number:**	CL14018
Description:	Aroclor 1242	**Certification Date:**	August 20, 2019
Storage:	4 °C	**Expiration Date:**	August 31, 2027
Provided As:	1 mL in 2 mL Ampoule in Isooctane		

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aroclor 1242	53469-21-9	1000	± 0.553%

J006468
Read JR
06/18/21

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Reference Material Producer
Certicate No. 2427.02

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1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31[1] and ISO Guide 35.[2]

2. Quality Standards: Phenova is accredited by A2LA to ISO 17034[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.

4. Handling and Usage Notes: Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.

12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

[1] ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
[3] ISO 17034 – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.:	AL0-101471	**Lot Number:**	CL15384
Description:	Aroclor 1248	**Certification Date:**	June 19, 2020
Storage:	4 °C	**Expiration Date:**	June 30, 2028
Provided As:	1 mL in 2 mL Ampoule in Isooctane		

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aroclor 1248	12672-29-6	1000	± 0.520%

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Reed, JR
06/18/21

ACCREDITED
Reference Material Producer
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1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31[1] and ISO Guide 35.[2]

2. Quality Standards: Phenova is accredited by A2LA to ISO 17034[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.

4. Handling and Usage Notes: Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.

12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

[1] ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
[3] ISO 17034 – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

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Certified Reference Material

This product is included in Phenova's ISO/IEC 17025 and ISO Guide 34 Scopes of Accreditation

Catalog No.: AL0-101474
Description: Aroclor 1262
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Isooctane

Lot Number: CL11330
Certification Date: May 15, 2015
Expiration Date: April 30, 2023
Revision Date: April 2, 2018

Andrea L Gill
Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aroclor 1262	37324-23-5	1000	± 0.516%

J 00647
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Certificate No. 2427.02

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1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31[1] and ISO Guide 35.[2]

2. Quality Standards: Phenova is accredited by A2LA to ISO Guide 34[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in the calibration and calibration verification of chromatographic instrumentation performed in routine laboratory analysis.

4. Instruction: Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all certified analytes in the mixture.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Material Safety Data Sheet (MSDS) is available at www.phenomenex.com/mysupport.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO Guide 34. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO Guide 34.

12. Period of Validity: The Certified Values and their uncertainties are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

[1] ISO Guide 31:2000(E) – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35:2006(E) – Reference Material – General and Statistical Principles for Certification.
[3] ISO Guide 34:2009(E) – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025:2005(E) – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

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Certified Reference Material

This product is included in Phenova's ISO/IEC 17025 and ISO Guide 34 Scopes of Accreditation

Catalog No.:	AL0-101475	**Lot Number:**	CL11331
Description:	Aroclor 1268	**Certification Date:**	May 15, 2015
Storage:	4 °C	**Expiration Date:**	April 30, 2023
Provided As:	1 mL in 2 mL Ampoule in Isooctane	**Revision Date:**	April 2, 2018

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aroclor 1268	11100-14-4	1000	± 0.516%

J006472
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06/18/21

ACCREDITED
Reference Material Producer
Certificate No. 2427.02

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1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31[1] and ISO Guide 35.[2]

2. Quality Standards: Phenova is accredited by A2LA to ISO Guide 34[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in the calibration and calibration verification of chromatographic instrumentation performed in routine laboratory analysis.

4. Instruction: Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all certified analytes in the mixture.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Material Safety Data Sheet (MSDS) is available at www.phenomenex.com/mysupport.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO Guide 34. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO Guide 34.

12. Period of Validity: The Certified Values and their uncertainties are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

[1] ISO Guide 31:2000(E) – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35:2006(E) – Reference Material – General and Statistical Principles for Certification.
[3] ISO Guide 34:2009(E) – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025:2005(E) – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

ACCREDITED
Reference Material Producer
Certificate No. 2427.02

phenova® Certified Reference Materials

Manufactured by Phenova, Inc.
Phenova's testing and calibration results are internationally recognized through the ILAC MRA. Phenova is an accredited ISO Guide 34 Reference Material Provider and ISO/IEC 17025 accredited Chemical Testing Laboratory.

ilac-MRA ACCREDITED
Chemical Testing Laboratory
Certificate No. 2427.03

Certificate of Analysis

Agilent

Aroclor 1016 Solution

Product Number: PP-282 **Page:** 1 of 1

Lot Number: CR-0761 **Lot Issue Date:** 28-Feb-2017 **Expiration Date:** 31-Mar-2025

This ISO Guide 34 Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
Aroclor 1016	012674-11-2	NT01016	100.2 ± 0.5 µg/mL

Matrix: isooctane (2,2,4-trimethylpentane)

Storage: Store at Room Temperature (15° to 30°C).

K1254 Reed JR 02/05/22

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

John Russo
President

Monica Bourgeois
Director of QA/RA

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY

ISO 9001
Registered
TUV USA, Inc.

Agilent

Certificate of Analysis

Product Name: Aroclor 1260 Standard

Product Number: PP-362-1 **Lot Issue Date:** 20-Jan-2021

Lot Number: 0006582048 **Expiration Date:** 28-Feb-2025

Description:
This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	Concentration ± Uncertainty
Aroclor 1260	011096-82-5	NT01023	100.4 ± 0.5 µg/mL

Matrix: isooctane (2,2,4-trimethylpentane)

Storage Conditions: Store at Room Temperature (15° to 30°C).

K 1255

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:
This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Hazards:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this RM.

Expiration of Certification:
The certification of this RM is valid until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.

Maintenance of Certification:
If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:

M Bourgeois

Monica Bourgeois
QMS Representative

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

ISO 17034 Cert
No. AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026

www.agilent.com/quality/
CSD-QA-015.1

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY

ISO 17025 Cert
No. AT-1937

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Agilent

Certificate of Analysis
ISO Guide 34

Aroclor 1242 Solution

Product Number: PP-312 **Page:** 1 of 1

Lot Number: CS-6293 **Lot Issue Date:** 04-Jan-2019 **Expiration Date:** 31-Jan-2023

This ISO Guide 34 Reference Material (RM) was manufactured and verified in accordance with Agilent's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
Aroclor 1242	053469-21-9	NT01020	100.4 ± 0.5 µg/mL

Matrix: isooctane (2,2,4-trimethylpentane)

Storage: Store at Room Temperature (15° to 30°C).

K1256

Agilent uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

M Bourgeois

Monica Bourgeois
QMS Representative

ANAB ACCREDITED ISO GUIDE 34 REFERENCE MATERIAL PRODUCER
ISO Guide 34 Cert No.
AR-1936

Produced in accordance with TUV USA Inc 56 100 18560026
registered ISO 9001 Quality Management System

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY
ISO17025 Cert No.
AT-1937

ISO 17034

Agilent
Trusted Answers

Reference Material Certificate

Product Name:	Aroclor 1248 Standard	**Lot Number:**	0006626997
Product Number:	PP-342-1	**Lot Issue Date:**	17-Aug-2021
Storage Conditions:	Store at Room Temperature (15° to 30°C).	**Expiration Date:**	30-Sep-2025

	CERTIFIED VALUES				
Component Name	Concentration		Expanded Uncertainty	CAS#	Analyte Lot
Aroclor 1248	100.3	±	0.5 µg/mL	012672-29-6	NT01582

Matrix: isooctane (2,2,4-trimethylpentane)

K1257

Description:
This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Safety:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this analytical reference material.

Intended Use:
This analytical reference standard is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Expiration of Certification:
The certification of this analytical reference standard is valid until the expiration date specified above, provided the material is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the material is damaged, contaminated, or otherwise modified.

Certificate of Analysis

Agilent

Aroclor 1254 Solution

Product Number: PP-352 **Page:** 1 of 1

Lot Number: CS-2321 **Lot Issue Date:** 04-May-2018 **Expiration Date:** 31-May-2026

This ISO Guide 34 Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
Aroclor 1254	011097-69-1	RM00922	100.4 ± 0.5 µg/mL

Matrix: isooctane (2,2,4-trimethylpentane)

Storage: Store at Room Temperature (15° to 30°C).

K1258

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

John Russo
President

Monica Bourgeois
Director of QA/RA

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY

ISO 9001
Registered
TUV USA, Inc.

Agilent

Certificate of Analysis

Product Name: Aroclor 1221 Standard

Product Number: PP-292-1 **Lot Issue Date:** 28-Apr-2020

Lot Number: 0006535333 **Expiration Date:** 31-May-2024

Description:

This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system, and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	Concentration ± Uncertainty
Aroclor 1221	011104-28-2	RM04278	100.2 ± 0.5 µg/mL

Matrix: isooctane (2,2,4-trimethylpentane)

Storage Conditions: Store at Room Temperature (15° to 30°C).

K1259

Traceability:

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:

This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:

This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Instructions for Use:

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Hazards:

Refer to the Safety Data Sheet on www.agilent.com for information regarding this RM.

Expiration of Certification:

The certification of this RM is valid until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.

Maintenance of Certification:

If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:

MBourgeois

Monica Bourgeois
QMS Representative

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

ISO 17034 Cert No. AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026

www.agilent.com/quality/
CSD-QA-015.1

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY

ISO 17025 Cert No. AT-1937

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Certificate of Analysis
ISO 17034

Aroclor 1262 Standard

Product Number: PP-372-1 **Page:** 1 of 1

Lot Number: 0006499800 **Lot Issue Date:** 04-Nov-2019 **Expiration Date:** 30-Nov-2023

This ISO 17034 Reference Material (RM) was manufactured and verified in accordance with Agilent Technologies ISO 9001 registered quality system. A review of the gravimetric preparation data by our ISO 17025 accredited laboratory serves to verify the concentration of each analyte. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
Aroclor 1262	037324-23-5	RM14263	100.0 ± 0.5 µg/mL

Matrix: isooctane (2,2,4-trimethylpentane)

Storage: Store at Room Temperature (15° to 30°C).

K1260

Agilent uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

Monica Bourgeois
QMS Representative

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER
ISO 17034 Cert No. AR-1936

Produced in accordance with TUV USA Inc 56 100 18560026 registered ISO 9001 Quality Management System

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY
ISO 17025 Cert No. AT-1937

Agilent

Certificate of Analysis
ISO 17034

Aroclor 1232 Standard

Product Number: PP-302-1 **Page:** 1 of 1

Lot Number: CF-2197A **Lot Issue Date:** 05-Jul-2016 **Expiration Date:** 31-Aug-2023

This ISO 17034 Reference Material (RM) was manufactured and verified in accordance with Agilent's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
Aroclor 1232	011141-16-5	NT01717	100.4 ± 0.5 µg/mL

Matrix: isooctane (2,2,4-trimethylpentane)

Storage: Store at Room Temperature (15° to 30°C).

K1261

Agilent uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

M Bourgeois

Monica Bourgeois
QMS Representative

ANAB ACCREDITED ISO GUIDE 34 REFERENCE MATERIAL PRODUCER
ISO 17034 Cert No. AR-1936

Produced in accordance with TUV USA Inc 56 100 18560026 registered ISO 9001 Quality Management System

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY
ISO17025 Cert No. AT-1937

Agilent

Certificate of Analysis

Product Name: Aroclor 1268 Standard

Product Number: PP-382-1 **Lot Issue Date:** 09-Feb-2021

Lot Number: 0006587800 **Expiration Date:** 31-Mar-2029

Description:
This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	Concentration ± Uncertainty
Aroclor 1268	011100-14-4	RM00937	100.0 ± 0.5 µg/mL

Matrix: isooctane (2,2,4-trimethylpentane)

Storage Conditions: Store at Room Temperature (15° to 30°C).

K1262

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:
This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Hazards:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this RM.

Expiration of Certification:
The certification of this RM is valid until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.

Maintenance of Certification:
If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:

M Bourgeois

Monica Bourgeois
QMS Representative

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

ISO 17034 Cert
No. AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026

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ISO 17025 Cert
No. AT-1937

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Recipient Copy

CHAIN-OF-CUSTODY RECORD

COC No. 15350

Order Number: CB014765 Date Shipped: 4/11/2022 AirBill No(s): 519204140444

From: QATS LABORATORY
2700 CHANDLER AVENUE, BLDG. B
LAS VEGAS, NV 89120
PHONE: 1-702-895-8712

To: Kelly Bottem
Analytical Resources, Inc.
4611 S. 134th Place SUITE 100
Tukwila WA 98168
206-695-6211

K003525
K003528

Sample ID	Qty	Description/Remarks	→ Catalogue Number
PSRM0148	1	PUGET SOUND SEDIMENT RM	PS-SRM
PSRM0149	1	PUGET SOUND SEDIMENT RM	PS-SRM
PSRM0150	1	PUGET SOUND SEDIMENT RM	PS-SRM
PSRM0151	1	PUGET SOUND SEDIMENT RM	PS-SRM

4/11/2022

BOEING PLANT 2

Please use the enclosed Sample Preparation Instructions. If catalogue number(s) are listed at the top of the Sample Preparation Instructions use the Sample Preparation Instructions with catalogue number(s) matching the catalogue number(s) of each of the samples listed above.

Relinquished by: (Signature)	Date/Time 1400 4/11/2022	Received by: (Signature)	Date/Time 0955 04/12/22
Custody Seal(s): Present/Absent PRESENT	Remarks:		
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

PUGET SOUND SEDIMENT REFERENCE MATERIAL
QATS LABORATORY INSTRUCTIONS FOR
HRGC/HRMS CDD/CDF/CB CONGENER AND GC/ECD AROCLOR ANALYSIS

NOTE: These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocols or your contract, disregard these instructions.

APPLICATION: For the analysis of CDD/CDF and CB Congener analytes using project-specified HRGC/HRMS methods, and Aroclors using project-specified GC/ECD methods.

CAUTION: Read instructions carefully before opening bottles and proceeding with the analyses.

Contains CDD/CDF, CB Congener, and/or Aroclors
HAZARDOUS MATERIAL

Safety Data Sheets
Available Upon Request

(A) *SAMPLE DESCRIPTION*

Enclosed is a Puget Sound (Washington State) Sediment Reference Material (SRM) set for chlorinated dibenzo-p-dioxins/chlorinated dibenzofurans (CDD/CDF), and/or chlorinated biphenyl (CB) congener analysis using project-specified high resolution gas chromatography/ high resolution mass spectrometry (HRGC/HRMS) methods. This SRM is also suitable for Aroclors analysis using project-specified gas chromatography/electron capture detection (GC/ECD) methods. This set consists of one (1) or more bottles, each with approximately 30 grams of Puget Sound SRM containing CDD/CDF, CB Congener, and/or Aroclor analytes. Check the chain-of-custody record to determine the number of bottles provided for CDD/CDF, CB Congener, and/or Aroclor analysis. None of the bottles are to be opened until SRM preparation/analysis is to occur.

CAUTION: The SRM could contain compounds that are light sensitive and should be protected from light during storage. Store the SRM at ≤ 6° C, preferably at < 0° C, until SRM preparation and analysis is to occur. Allow the bottle(s) to reach ambient temperature before opening.

(B) *BREAKAGE OR MISSING ITEMS*

Check the contents of the shipment carefully for any broken, leaking, or missing items. Refer to the enclosed chain-of-custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

(C) *ANALYSIS REQUIREMENTS*

The SRM is to be analyzed as described in the project-specified methods employed for the analysis of CDD/CDF and/or CB Congener analytes using HRGC/HRMS instrumentation and/or Aroclors using GC/ECD instrumentation. These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the project-specified methods, or your contract, disregard these instructions.

(D) *SAMPLE ANALYSIS*

General Instructions

The SRM contains CDD/CDF, CB Congener, and Aroclor analytes which are known or suspected to have severe health effects. Employing appropriate safety precautions, this SRM is to be handled, prepared, and analyzed exactly as you would process samples received from a known or suspected hazardous waste site. The SRM should be handled only by trained and experienced analysts in facilities expressly designed to handle such materials. When calculating the concentrations of analytes, use 0% as the soil moisture content.

Allow the bottle(s) to reach ambient temperature before opening and removing gravimetric amounts for sample preparation. To begin the extraction and analysis procedure, break the seal and open the bottle carefully. Weigh out the appropriate aliquot for extraction and analysis as prescribed in the project-specified methods (typically 10 grams for HRGC/HRMS methods and 30 grams for GC/ECD methods), or in accordance with your contract.

Proceed immediately with the extraction and analysis as described in the project-specified methods or your contract.

(E) *REPORTING*

Report the results for the prepared SRM as received.

Report the analytical results for the SRM to EPA or other appropriate Agency, using the format and other instructions for submission of data packages as specified in your contract.

Certificate of Analysis

Phenova Certified Reference Materials are sold by Phenomenex.
411 Madrid Ave., Torrance, CA 90501 USA ▪ Tel: 310-212-0555 ▪ Fax: 310-328-7768 ▪ info@phenomenex.com
Access your MSDS and digital C of A at **www.phenomenex.com/mysupport. Re-order at www.phenomenex.com/standards**

Certified Reference Material

This product is included in Phenova's ISO/IEC 17025 and ISO Guide 34 Scopes of Accreditation

Catalog No.:	AL0-101467	**Lot Number:**	CL12975
Description:	Aroclor 1016	**Certification Date:**	November 19, 2018
Storage:	4 °C	**Expiration Date:**	October 31, 2026
Provided As:	1 mL in 2 mL Ampoule in Isooctane		

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aroclor 1016	12674-11-2	1000	± 0.553%

K5829

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phenova® Certified Reference Materials

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Phenova's testing and calibration results are internationally recognized through the ILAC MRA. Phenova is an accredited ISO Guide 34 Reference Material Provider and ISO/IEC 17025 accredited Chemical Testing Laboratory.

ilac-MRA ACCREDITED
Chemical Testing Laboratory
Certificate No. 2427.03

Certificate of Analysis

Phenova Certified Reference Materials are sold by Phenomenex.
411 Madrid Ave., Torrance, CA 90501 USA ▪ Tel: 310-212-0555 ▪ Fax: 310-328-7768 ▪ info@phenomenex.com
Access your MSDS and digital C of A at www.phenomenex.com/mysupport. Re-order at www.phenomenex.com/standards

1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31[1] and ISO Guide 35.[2]

2. Quality Standards: Phenova is accredited by A2LA to ISO Guide 34[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in the calibration and calibration verification of chromatographic instrumentation performed in routine laboratory analysis.

4. Instruction: Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all certified analytes in the mixture.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Material Safety Data Sheet (MSDS) is available at www.phenomenex.com/mysupport.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

   $$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

   Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO Guide 34. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO Guide 34.

12. Period of Validity: The Certified Values and their uncertainties are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

[1] ISO Guide 31:2000(E) – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35:2006(E) – Reference Material – General and Statistical Principles for Certification.
[3] ISO Guide 34:2009(E) – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025:2005(E) – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

ACCREDITED
Reference Material Producer
Certificate No. 2427.02

phenova® Certified Reference Materials

Manufactured by Phenova, Inc.
Phenova's testing and calibration results are internationally recognized through the ILAC MRA. Phenova is an accredited ISO Guide 34 Reference Material Provider and ISO/IEC 17025 accredited Chemical Testing Laboratory.

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Chemical Testing Laboratory
Certificate No. 2427.03

IL111106I3_US

Certificate of Analysis

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6390 Joyce Drive STE 100, Golden, CO 80403 USA ▪ Tel: 303-940-0033 ▪ Fax: 303-940-0043 ▪ info@phenova.com
Access your Safety Data Sheets and digital Certificates at **www.phenova.com/documents.**

Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101462
Description: Aroclor 1260
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Hexane

Lot Number: CL18021
Certification Date: February 14, 2022
Expiration Date: February 28, 2030

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aroclor 1260	11096-82-5	1000	± 0.553%

K005830

Certificate of Analysis

Produced by Phenova
6390 Joyce Drive STE 100, Golden, CO 80403 USA ▪ Tel: 303-940-0033 ▪ Fax: 303-940-0043 ▪ info@phenova.com
Access your Safety Data Sheets and digital Certificates at **www.phenova.com/documents.**

1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31[1] and ISO Guide 35.[2]

2. Quality Standards: Phenova is accredited by A2LA to ISO 17034[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.

4. Handling and Usage Notes: Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.

12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

[1] ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
[3] ISO 17034 – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

Analytical Resources, LLC
Analytical Chemists and Consultants

LDW23-SS1037

Form 1
ORGANIC ANALYSIS DATA SHEET
EPA 1613B
Dioxins/Furans by HRGC/HRMS

Laboratory:	Analytical Resources, LLC			SDG:	23C0071
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0071-02 A	File ID:	23042427
Sampled:	03/02/23 09:56	Prepared:	03/15/23 06:39	Analyzed:	04/25/23 11:52
% Solids:	49.83	Preparation:	EPA 8290	Initial/Final:	19.84 g Wet / 20 uL
Result Basis:	Dry	Sequence:	SLD0330	Calibration:	GC00015
Batch:	BLC0379	Instrument:	AUTOSPEC01	Column:	RTX-Dioxin2

CAS NO.	COMPOUND	DF/Split	Ion Ratio	Ratio Limits	EDL	RL	Result	Units	Q
51207-31-9	2,3,7,8-TCDF	1	0.835	0.655-0.886	0.242	1.01	0.982	ng/kg	J
1746-01-6	2,3,7,8-TCDD	1	0.451	0.655-0.886	0.183	1.01	0.442	ng/kg	EMPC, J
57117-41-6	1,2,3,7,8-PeCDF	1	1.172	1.318-1.783	0.362	1.01	0.907	ng/kg	EMPC, J
57117-31-4	2,3,4,7,8-PeCDF	1	1.563	1.318-1.783	0.330	1.01	1.57	ng/kg	
40321-76-4	1,2,3,7,8-PeCDD	1	1.986	1.318-1.783	0.496	1.01	1.51	ng/kg	EMPC, B
70648-26-9	1,2,3,4,7,8-HxCDF	1	1.239	1.054-1.426	0.179	1.01	4.70	ng/kg	
57117-44-9	1,2,3,6,7,8-HxCDF	1	1.074	1.054-1.426	0.192	1.01	1.79	ng/kg	
60851-34-5	2,3,4,6,7,8-HxCDF	1	1.196	1.054-1.426	0.187	1.01	2.19	ng/kg	
72918-21-9	1,2,3,7,8,9-HxCDF	1	1.464	1.054-1.426	0.217	1.01	1.03	ng/kg	EMPC
39227-28-6	1,2,3,4,7,8-HxCDD	1	1.103	1.054-1.426	0.322	1.01	1.53	ng/kg	
57653-85-7	1,2,3,6,7,8-HxCDD	1	1.127	1.054-1.426	0.316	1.01	6.46	ng/kg	
19408-74-3	1,2,3,7,8,9-HxCDD	1	1.478	1.054-1.426	0.351	1.01	3.89	ng/kg	EMPC
67562-39-4	1,2,3,4,6,7,8-HpCDF	1	1.020	0.893-1.208	0.247	1.01	42.7	ng/kg	
55673-89-7	1,2,3,4,7,8,9-HpCDF	1	1.071	0.893-1.208	0.385	1.01	3.83	ng/kg	
35822-46-9	1,2,3,4,6,7,8-HpCDD	1	1.039	0.893-1.208	0.843	2.53	206	ng/kg	
39001-02-0	OCDF	1	0.911	0.757-1.024	0.708	2.53	165	ng/kg	
3268-87-9	OCDD	1	0.868	0.757-1.024	0.868	10.1	1700	ng/kg	B

Homologue Groups

55722-27-5	Total TCDF	1	0.000			1.01	12.4	ng/kg	
41903-57-5	Total TCDD	1	0.000			1.01	2.53	ng/kg	
30402-15-4	Total PeCDF	1	0.000			1.01	19.8	ng/kg	
36088-22-9	Total PeCDD	1	0.000			1.01	4.11	ng/kg	
55684-94-1	Total HxCDF	1	0.000			1.01	59.0	ng/kg	
34465-46-8	Total HxCDD	1	0.000			1.01	46.1	ng/kg	
38998-75-3	Total HpCDF	1	0.000			1.01	166	ng/kg	
37871-00-4	Total HpCDD	1	0.000			1.01	483	ng/kg	

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC): 7.79

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 7.79

Analytical Resources, Incorporated
Analytical Chemists and Consultants

LDW23-SS1037

Form 2
ORGANIC ANALYSIS DATA SHEET
EPA 1613B
Dioxins/Furans by HRGC/HRMS

Laboratory:	Analytical Resources, LLC			SDG:	23C0071
Client:	Anchor QEA, LLC			Project:	AOC5 MR Phase 1
Matrix:	Sediment	Laboratory ID:	23C0071-02	File ID:	23042427
Sampled:	03/02/23 09:56	Prepared:	03/15/23 06:39	Analyzed:	04/25/23 11:52
Solids Wt%:	49.83	Preparation:	EPA 8290	Initial/Final:	19.84 g / 20 uL
Result Basis:	Dry	Sequence:	SLD0330	Calibration:	GC00015
Batch:	BLC0379	Instrument:	AUTOSPEC01	Column:	RTX-Dioxin2

Labels	DF/Split	Ion Ratio	Ratio Limits	EDL	% REC	QC LIMITS	Q
13C12-2,3,7,8-TCDF		0.742	0.655-0.886	0.108	60.4	24 - 169 %	
13C12-2,3,7,8-TCDD		0.798	0.655-0.886	0.166	68.2	25 - 164 %	
13C12-1,2,3,7,8-PeCDF		1.539	1.318-1.783	0.176	75.6	24 - 185 %	
13C12-2,3,4,7,8-PeCDF		1.499	1.318-1.783	0.195	78.6	21 - 178 %	
13C12-1,2,3,7,8-PeCDD		1.619	1.318-1.783	0.153	56.5	25 - 181 %	
13C12-1,2,3,4,7,8-HxCDF		0.514	0.434-0.587	0.137	67.0	26 - 152 %	
13C12-1,2,3,6,7,8-HxCDF		0.512	0.434-0.587	0.116	57.5	26 - 123 %	
13C12-2,3,4,6,7,8-HxCDF		0.507	0.434-0.587	0.142	67.2	28 - 136 %	
13C12-1,2,3,7,8,9-HxCDF		0.509	0.434-0.587	0.172	68.0	29 - 147 %	
13C12-1,2,3,4,7,8-HxCDD		1.255	1.054-1.426	0.244	69.7	32 - 141 %	
13C12-1,2,3,6,7,8-HxCDD		1.214	1.054-1.426	0.210	59.0	28 - 130 %	
13C12-1,2,3,4,6,7,8-HpCDF		0.443	0.374-0.506	0.233	78.3	28 - 143 %	
13C12-1,2,3,4,7,8,9-HpCDF		0.451	0.374-0.506	0.271	73.1	26 - 138 %	
13C12-1,2,3,4,6,7,8-HpCDD		1.061	0.893-1.208	0.228	63.9	23 - 140 %	
13C12-OCDD		0.900	0.757-1.024	0.246	61.9	17 - 157 %	
37Cl4-2,3,7,8-TCDD		328.000		0.074	75.9	35 - 197 %	

* Values outside of QC limits

Dataset: T:\Autospec\Processed Data Batch\230424D2.qld
Last Altered: Tuesday, April 25, 2023 14:48:36 Pacific Daylight Time
Printed: Tuesday, April 25, 2023 14:51:01 Pacific Daylight Time

Method: T:\Autospec\Methods\Dioxin230424.mdb 25 Apr 2023 07:59:40
Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 11:57:27

ID: 23C0071-02, Name: 23042427, Date: 25-Apr-2023, Time: 11:52:36, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	25.704	1.001	8.118e2	9.717e2	0.702	0.835	0.770	1165	1040	1.35e4	1.49e4	11.6	14.3	NO	dd	dd	0.486
12378-PeCDF	29.855	1.001	8.249e2	7.037e2	0.679	1.172	1.550	1878	1196	1.37e4	8.66e3	7.3	7.2	YES	bb	bb	0.449
23478-PeCDF	31.204	1.001	1.750e3	1.120e3	0.786	1.563	1.550	1878	1196	2.31e4	1.84e4	12.3	15.4	NO	db	dd	0.776
123478-HxCDF	34.802	1.000	5.468e3	4.414e3	1.166	1.239	1.240	1067	916	8.40e4	6.21e4	78.7	67.8	NO	bd	dd	2.321
234678-HxCDF	35.793	1.000	2.379e3	1.989e3	1.140	1.196	1.240	1067	916	2.74e4	2.12e4	25.6	23.2	NO	bb	bb	1.082
123678-HxCDF	34.947	1.000	1.861e3	1.733e3	1.091	1.074	1.240	1067	916	2.93e4	2.60e4	27.4	28.4	NO	db	db	0.886
123789-HxCDF	36.829	1.000	1.019e3	6.961e2	1.137	1.464	1.240	1067	916	1.51e4	1.11e4	14.1	12.1	YES	bd	MM	0.510
1234678-HpCDF	38.679	1.000	3.496e4	3.427e4	1.003	1.020	1.050	1088	1085	5.72e5	5.60e5	525.7	516.2	NO	bb	bb	21.111
1234789-HpCDF	40.929	1.001	2.448e3	2.284e3	0.953	1.071	1.050	1088	1085	3.58e4	3.05e4	32.8	28.1	NO	bb	bb	1.891
OCDF	45.125	1.006	6.711e4	7.367e4	0.778	0.911	0.890	1147	1249	8.11e5	9.23e5	706.9	739.4	NO	bb	bb	81.607
2378-TCDD	26.339	1.001	3.286e2	7.281e2	1.149	0.451	0.770	1338	839	6.94e3	1.01e4	5.2	12.0	YES	MM	bb	0.219
12378-PeCDD	31.437	1.000	1.269e3	6.391e2	1.022	1.986	1.550	1341	1647	1.81e4	9.40e3	13.5	5.7	YES	bd	MM	0.745
123478-HxCDD	35.949	1.001	1.281e3	1.161e3	0.996	1.103	1.240	1308	1422	1.86e4	1.96e4	14.2	13.8	NO	bd	bd	0.759
123678-HxCDD	36.049	1.000	5.397e3	4.791e3	1.001	1.127	1.240	1308	1422	8.99e4	8.02e4	68.8	56.4	NO	db	dd	3.195
123789-HxCDD	36.428	1.011	3.343e3	2.262e3	0.907	1.478	1.240	1308	1422	5.65e4	3.77e4	43.2	26.5	YES	bb	bb	1.925
1234678-HpCDD	40.172	1.000	1.349e5	1.298e5	1.039	1.039	1.050	3321	2158	2.11e6	2.01e6	635.4	933.6	NO	bb	bb	101.630
OCDD	44.878	1.000	7.957e5	9.165e5	0.920	0.868	0.890	1768	1708	1.01e7	1.16e7	5706.8	6779.9	NO	bb	bb	839.180
13C-2378-TCDF	25.675	1.007	2.230e5	3.005e5	1.620	0.742	0.770	1251	1154	3.36e6	4.57e6	2689.9	3959.8	NO	bb	bb	60.365
13C-12378-PeCDF	29.833	1.170	3.042e5	1.976e5	1.240	1.539	1.550	1764	1231	4.59e6	2.96e6	2604.6	2401.7	NO	bb	bd	75.572
13C-23478-PeCDF	31.170	1.222	2.820e5	1.881e5	1.118	1.499	1.550	1764	1231	4.32e6	2.87e6	2447.3	2331.1	NO	bb	bb	78.574
13C-123478-HxCDF	34.791	0.955	1.240e5	2.412e5	1.168	0.514	0.510	949	1087	1.95e6	3.87e6	2059.8	3562.5	NO	bd	bd	66.991
13C-123678-HxCDF	34.936	0.959	1.259e5	2.458e5	1.386	0.512	0.510	949	1087	1.95e6	3.81e6	2054.5	3506.3	NO	db	db	57.461
13C-234678-HxCDF	35.805	0.983	1.192e5	2.349e5	1.129	0.507	0.510	949	1087	1.90e6	3.63e6	1997.8	3334.9	NO	bb	bb	67.207
13C-123789-HxCDF	36.829	1.011	9.977e4	1.960e5	0.932	0.509	0.510	949	1087	1.64e6	3.18e6	1732.3	2924.1	NO	bb	bb	68.033
13C-1234678-HpCDF	38.668	1.062	1.004e5	2.266e5	0.895	0.443	0.440	1368	1280	1.64e6	3.70e6	1197.1	2888.7	NO	bb	bb	78.285
13C-1234789-HpCDF	40.907	1.123	8.158e4	1.809e5	0.770	0.451	0.440	1368	1280	1.12e6	2.45e6	816.5	1911.6	NO	bb	bd	73.093
13C-1234-TCDD	25.506	0.000	2.370e5	2.983e5	1.000	0.795	0.770	1724	903	3.68e6	4.62e6	2138.0	5119.2	NO	bb	bb	100.000
13C-2378-TCDD	26.311	1.032	1.868e5	2.342e5	1.152	0.798	0.770	1724	903	2.79e6	3.55e6	1618.3	3931.2	NO	bd	bb	68.249
13C-12378-PeCDD	31.426	1.232	1.550e5	9.573e4	0.829	1.619	1.550	822	917	2.21e6	1.40e6	2690.6	1521.9	NO	bb	bd	56.512
13C-123478-HxCDD	35.927	0.987	1.800e5	1.434e5	0.995	1.255	1.240	1911	1166	2.87e6	2.26e6	1503.7	1941.7	NO	bd	bd	69.662
13C-123678-HxCDD	36.038	0.990	1.747e5	1.439e5	1.157	1.214	1.240	1911	1166	2.87e6	2.36e6	1502.4	2022.7	NO	db	db	59.028
13C-1234678-HpCDD	40.160	1.103	1.290e5	1.216e5	0.840	1.061	1.050	1316	1113	1.95e6	1.80e6	1485.1	1616.7	NO	bb	bb	63.943
13C-OCDD	44.859	1.232	2.101e5	2.335e5	0.767	0.900	0.890	1198	1195	2.50e6	2.69e6	2088.5	2252.6	NO	bb	bd	123.883
13C-123789-HxCDD	36.417	0.000	2.612e5	2.054e5	1.000	1.271	1.240	1911	1166	4.31e6	3.37e6	2256.4	2887.1	NO	bb	bb	100.000
37CL-2378-TCDD	26.339	1.033	2.094e5		1.288			1303		3.15e6		2418.9			bb		30.372

Dataset: T:\Autospec\Processed Data Batch\230424D2.qld
Last Altered: Tuesday, April 25, 2023 14:48:36 Pacific Daylight Time
Printed: Tuesday, April 25, 2023 14:51:01 Pacific Daylight Time

ID: 23C0071-02, Name: 23042427, Date: 25-Apr-2023, Time: 11:52:36, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF	22.201	0.865	3.510e2	4.236e2	0.802	0.828	0.770	1165	1040	4.83e3	6.74e3	4.1	6.5	NO	bb	bb	0.185
1289-TCDF					0.678		0.770	1165	1040								
13468-PECDF					1.246		1.550	783	921								
12389-PECDF					0.496		1.550	1878	1196								
123468-HXCDF	33.142	0.953	5.380e3	4.631e3	1.169	1.162	1.240	1067	916	8.30e4	6.80e4	77.8	74.3	NO	bb	bb	2.345
1368-TCDD	23.458	0.892	9.824e2	1.224e3	1.015	0.803	0.770	1338	839	1.50e4	2.09e4	11.2	24.8	NO	bb	bb	0.516
1289-TCDD					0.909		0.770	1338	839								
12479-PECDD	28.741	0.915	3.020e3	2.013e3	2.301	1.500	1.550	1341	1647	3.21e4	1.99e4	23.9	12.1	NO	MM	MM	0.872
12389-PECDD					1.184		1.550	1341	1647								
124679-HXCDD	33.922	0.944	1.525e4	1.242e4	1.115	1.228	1.240	1308	1422	2.38e5	1.89e5	181.9	133.0	NO	bb	bb	7.670
1234679-HPCDD	39.136	0.974	1.976e5	1.928e5	1.137	1.025	1.050	3321	2158	3.17e6	3.16e6	955.0	1463.8	NO	bb	bb	137.003
Total-tetrafurans			9.956e3		0.727			1165		1.42e5							6.109
Total-penta1			1.244e4					783		1.90e5							4.527
Total-pentafurans			1.077e4		0.654			1878		1.37e5							5.238
Total-hexafurans			6.479e4		1.141			1067		9.71e5							29.168
Total-heptafurans			1.243e5		0.978			1088		2.01e6							81.873
Total-Furans			2.893e5		0.922			1165		4.26e6							208.520
Total-tetradioxins			2.361e3		1.024			1338		3.78e4							1.251
Total-pentadioxins			5.596e3		1.502			1341		7.58e4							2.030
Total-hexadioxins			4.169e4		1.005			1308		5.80e5							22.811
Total-heptadioxins			3.325e5		1.088			3321		5.28e6							238.633
Total-Dioxins			1.178e6		1.130			1338		1.61e7							1103.905
Total-TEQ			1.467e6					1338		2.03e7							1312.425
FUNCTION1 PFK			1.326e7					251123		7.63e7							
FUNCTION2 PFK			2.307e5					173818		1.93e6							0.000
FUNCTION3 PFK			4.024e7					323057		3.34e7							0.000
FUNCTION4 PFK			0.000e0					215984		0.00e0							
FUNCTION5 PFK			0.000e0					116477		0.00e0							
FUNCTION1 HXCD...			2.504e3					571		3.77e4							0.000
FUNCTION1 HPCD...																	
FUNCTION2 HPCD...			1.892e2					912		5.37e3							0.000
FUNCTION3 OCDPE			3.215e2					624		5.34e3							0.000
FUNCTION4 NCDPE			9.453e3					743		1.70e5							0.000
FUNCTION5 DCDPE			7.473e1					565		1.41e3							0.000

Method: T:\Autospec\Methods\Dioxin230424.mdb 25 Apr 2023 07:59:40
Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 11:57:27

ID: 23C0071-02, Name: 23042427, Date: 25-Apr-2023, Time: 11:52:36, Conditions: AUTOSPEC01, User: pk

TF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	23.70	8.134e2	1.240e3	0.727	0.66	0.77	11.5	YES	NO	bd	bd	0.539
2	Total-tetrafurans	23.43	1.136e3	1.584e3	0.727	0.72	0.77	16.1	YES	NO	dd	dd	0.715
3	Total-tetrafurans	23.34	2.438e3	3.013e3	0.727	0.81	0.77	25.9	YES	NO	dd	dd	1.432
4	Total-tetrafurans	23.16	9.035e2	1.295e3	0.727	0.70	0.77	9.6	YES	NO	dd	dd	0.578
5	Total-tetrafurans	23.03	1.585e3	2.083e3	0.727	0.76	0.77	18.4	YES	NO	bd	bd	0.964
6	1368-TCDF	22.20	3.510e2	4.236e2	0.802	0.83	0.77	4.1	YES	NO	bb	bb	0.185
7	Total-tetrafurans	27.33	3.211e2	4.418e2	0.727	0.73	0.77	5.0	YES	NO	bb	bb	0.200
8	Total-tetrafurans	25.92	8.175e2	1.243e3	0.727	0.66	0.77	10.5	YES	NO	db	db	0.541
9	2378-TCDF	25.70	8.118e2	9.717e2	0.702	0.84	0.77	11.6	YES	NO	dd	dd	0.486
10	Total-tetrafurans	24.77	7.782e2	1.005e3	0.727	0.77	0.77	9.3	YES	NO	bb	db	0.469

PP

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-penta1	27.12	1.244e4	8.387e3		1.48	1.55	242.2	YES	NO	bb	bb	4.527

PF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-pentafurans	28.77	7.629e3	4.295e3	0.654	1.78	1.55	49.9	YES	NO	MM	db	3.752
2	23478-PeCDF	31.20	1.750e3	1.120e3	0.786	1.56	1.55	12.3	YES	NO	db	dd	0.776
3	Total-pentafurans	31.05	1.392e3	8.597e2	0.654	1.62	1.55	10.9	YES	NO	dd	dd	0.709

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	234678-HxCDF	35.79	2.379e3	1.989e3	1.140	1.20	1.24	25.6	YES	NO	bb	bb	1.082
2	123678-HxCDF	34.95	1.861e3	1.733e3	1.091	1.07	1.24	27.4	YES	NO	db	db	0.886
3	123478-HxCDF	34.80	5.468e3	4.414e3	1.166	1.24	1.24	78.7	YES	NO	bd	dd	2.321
4	Total-hexafurans	34.66	8.669e2	7.178e2	1.141	1.21	1.24	14.4	YES	NO	bb	bd	0.401
5	Total-hexafurans	34.19	3.068e4	2.423e4	1.141	1.27	1.24	436.0	YES	NO	bb	bb	13.886
6	Total-hexafurans	33.90	6.800e2	5.713e2	1.141	1.19	1.24	10.9	YES	NO	bb	bb	0.316
7	Total-hexafurans	33.35	1.748e4	1.387e4	1.141	1.26	1.24	239.3	YES	NO	bb	bd	7.930
8	123468-HXCDF	33.14	5.380e3	4.631e3	1.169	1.16	1.24	77.8	YES	NO	bb	bb	2.345

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HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234789-HpCDF	40.93	2.448e3	2.284e3	0.953	1.07	1.05	32.8	YES	NO	bb	bb	1.891
2	Total-heptafurans	39.35	8.684e4	8.286e4	0.978	1.05	1.05	1286.7	YES	NO	bb	bb	58.870
3	1234678-HpCDF	38.68	3.496e4	3.427e4	1.003	1.02	1.05	525.7	YES	NO	bb	bb	21.111

Furans,TF,PP,PF,HF,HPF,OF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	23.70	8.134e2	1.240e3	0.727	0.66	0.77	11.5	YES	NO	bd	bd	0.539
2	Total-tetrafurans	23.43	1.136e3	1.584e3	0.727	0.72	0.77	16.1	YES	NO	dd	dd	0.715
3	Total-tetrafurans	23.34	2.438e3	3.013e3	0.727	0.81	0.77	25.9	YES	NO	dd	dd	1.432
4	Total-tetrafurans	23.16	9.035e2	1.295e3	0.727	0.70	0.77	9.6	YES	NO	dd	dd	0.578
5	Total-tetrafurans	23.03	1.585e3	2.083e3	0.727	0.76	0.77	18.4	YES	NO	bd	bd	0.964
6	1368-TCDF	22.20	3.510e2	4.236e2	0.802	0.83	0.77	4.1	YES	NO	bb	bb	0.185
7	Total-tetrafurans	27.33	3.211e2	4.418e2	0.727	0.73	0.77	5.0	YES	NO	bb	bb	0.200
8	Total-tetrafurans	25.92	8.175e2	1.243e3	0.727	0.66	0.77	10.5	YES	NO	db	db	0.541
9	2378-TCDF	25.70	8.118e2	9.717e2	0.702	0.84	0.77	11.6	YES	NO	dd	dd	0.486
10	Total-tetrafurans	24.77	7.782e2	1.005e3	0.727	0.77	0.77	9.3	YES	NO	bb	db	0.469
11	Total-pentafurans	28.77	7.629e3	4.295e3	0.654	1.78	1.55	49.9	YES	NO	MM	db	3.752
12	23478-PeCDF	31.20	1.750e3	1.120e3	0.786	1.56	1.55	12.3	YES	NO	db	dd	0.776
13	Total-pentafurans	31.05	1.392e3	8.597e2	0.654	1.62	1.55	10.9	YES	NO	dd	dd	0.709
14	234678-HxCDF	35.79	2.379e3	1.989e3	1.140	1.20	1.24	25.6	YES	NO	bb	bb	1.082
15	123678-HxCDF	34.95	1.861e3	1.733e3	1.091	1.07	1.24	27.4	YES	NO	db	db	0.886
16	123478-HxCDF	34.80	5.468e3	4.414e3	1.166	1.24	1.24	78.7	YES	NO	bd	dd	2.321
17	Total-hexafurans	34.66	8.669e2	7.178e2	1.141	1.21	1.24	14.4	YES	NO	bb	bd	0.401
18	Total-hexafurans	34.19	3.068e4	2.423e4	1.141	1.27	1.24	436.0	YES	NO	bb	bb	13.886
19	Total-hexafurans	33.90	6.800e2	5.713e2	1.141	1.19	1.24	10.9	YES	NO	bb	bb	0.316
20	Total-hexafurans	33.35	1.748e4	1.387e4	1.141	1.26	1.24	239.3	YES	NO	bb	bd	7.930
21	123468-HXCDF	33.14	5.380e3	4.631e3	1.169	1.16	1.24	77.8	YES	NO	bb	bb	2.345
22	1234789-HpCDF	40.93	2.448e3	2.284e3	0.953	1.07	1.05	32.8	YES	NO	bb	bb	1.891
23	Total-heptafurans	39.35	8.684e4	8.286e4	0.978	1.05	1.05	1286.7	YES	NO	bb	bb	58.870
24	1234678-HpCDF	38.68	3.496e4	3.427e4	1.003	1.02	1.05	525.7	YES	NO	bb	bb	21.111
25	OCDF	45.12	6.711e4	7.367e4	0.778	0.91	0.89	706.9	YES	NO	bb	bb	81.607
26	Total-penta1	27.12	1.244e4	8.387e3		1.48	1.55	242.2	YES	NO	bb	bb	4.527

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TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetradioxins	24.46	6.667e2	9.360e2	1.024	0.71	0.77	8.8	YES	NO	bd	bb	0.372
2	1368-TCDD	23.46	9.824e2	1.224e3	1.015	0.80	0.77	11.2	YES	NO	bb	bb	0.516
3	Total-tetradioxins	25.52	2.524e2	3.106e2	1.024	0.81	0.77	3.6	YES	NO	bd	bb	0.131
4	Total-tetradioxins	24.95	4.590e2	5.457e2	1.024	0.84	0.77	4.7	YES	NO	bd	bb	0.233

PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-pentadioxins	30.20	1.093e3	7.675e2	1.502	1.42	1.55	12.7	YES	NO	db	db	0.494
2	Total-pentadioxins	30.06	1.483e3	1.015e3	1.502	1.46	1.55	19.9	YES	NO	bd	bd	0.663
3	12479-PECDD	28.74	3.020e3	2.013e3	2.301	1.50	1.55	23.9	YES	NO	MM	MM	0.872

HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123678-HxCDD	36.05	5.397e3	4.791e3	1.001	1.13	1.24	68.8	YES	NO	db	dd	3.195
2	123478-HxCDD	35.95	1.281e3	1.161e3	0.996	1.10	1.24	14.2	YES	NO	bd	bd	0.759
3	Total-hexadioxins	35.06	1.681e4	1.365e4	1.005	1.23	1.24	142.7	YES	NO	bd	bd	9.444
4	Total-hexadioxins	34.69	2.954e3	2.668e3	1.005	1.11	1.24	35.8	YES	NO	bb	bb	1.743
5	124679-HXCDD	33.92	1.525e4	1.242e4	1.115	1.23	1.24	181.9	YES	NO	bb	bb	7.670

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234679-HPCDD	39.14	1.976e5	1.928e5	1.137	1.02	1.05	955.0	YES	NO	bb	bb	137.003
2	1234678-HpCDD	40.17	1.349e5	1.298e5	1.039	1.04	1.05	635.4	YES	NO	bb	bb	101.630

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Dioxins,TD,PD,HD,HPD,OD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetradioxins	24.46	6.667e2	9.360e2	1.024	0.71	0.77	8.8	YES	NO	bd	bb	0.372
2	1368-TCDD	23.46	9.824e2	1.224e3	1.015	0.80	0.77	11.2	YES	NO	bb	bb	0.516
3	Total-tetradioxins	25.52	2.524e2	3.106e2	1.024	0.81	0.77	3.6	YES	NO	bd	bb	0.131
4	Total-tetradioxins	24.95	4.590e2	5.457e2	1.024	0.84	0.77	4.7	YES	NO	bd	bb	0.233
5	Total-pentadioxins	30.20	1.093e3	7.675e2	1.502	1.42	1.55	12.7	YES	NO	db	db	0.494
6	Total-pentadioxins	30.06	1.483e3	1.015e3	1.502	1.46	1.55	19.9	YES	NO	bd	bd	0.663
7	123678-HxCDD	36.05	5.397e3	4.791e3	1.001	1.13	1.24	68.8	YES	NO	db	dd	3.195
8	123478-HxCDD	35.95	1.281e3	1.161e3	0.996	1.10	1.24	14.2	YES	NO	bd	bd	0.759
9	Total-hexadioxins	35.06	1.681e4	1.365e4	1.005	1.23	1.24	142.7	YES	NO	bd	bd	9.444
10	Total-hexadioxins	34.69	2.954e3	2.668e3	1.005	1.11	1.24	35.8	YES	NO	bb	bb	1.743
11	124679-HXCDD	33.92	1.525e4	1.242e4	1.115	1.23	1.24	181.9	YES	NO	bb	bb	7.670
12	1234679-HPCDD	39.14	1.976e5	1.928e5	1.137	1.02	1.05	955.0	YES	NO	bb	bb	137.003
13	1234678-HpCDD	40.17	1.349e5	1.298e5	1.039	1.04	1.05	635.4	YES	NO	bb	bb	101.630
14	OCDD	44.88	7.957e5	9.165e5	0.920	0.87	0.89	5706.8	YES	NO	bb	bb	839.180
15	12479-PECDD	28.74	3.020e3	2.013e3	2.301	1.50	1.55	23.9	YES	NO	MM	MM	0.872

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TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	23.70	8.134e2	1.240e3	0.727	0.66	0.77	11.5	YES	NO	bd	bd	0.539
2	Total-tetrafurans	23.43	1.136e3	1.584e3	0.727	0.72	0.77	16.1	YES	NO	dd	dd	0.715
3	Total-tetrafurans	23.34	2.438e3	3.013e3	0.727	0.81	0.77	25.9	YES	NO	dd	dd	1.432
4	Total-tetrafurans	23.16	9.035e2	1.295e3	0.727	0.70	0.77	9.6	YES	NO	dd	dd	0.578
5	Total-tetrafurans	23.03	1.585e3	2.083e3	0.727	0.76	0.77	18.4	YES	NO	bd	bd	0.964
6	1368-TCDF	22.20	3.510e2	4.236e2	0.802	0.83	0.77	4.1	YES	NO	bb	bb	0.185
7	Total-tetrafurans	27.33	3.211e2	4.418e2	0.727	0.73	0.77	5.0	YES	NO	bb	bb	0.200
8	Total-tetrafurans	25.92	8.175e2	1.243e3	0.727	0.66	0.77	10.5	YES	NO	db	db	0.541
9	2378-TCDF	25.70	8.118e2	9.717e2	0.702	0.84	0.77	11.6	YES	NO	dd	dd	0.486
10	Total-tetrafurans	24.77	7.782e2	1.005e3	0.727	0.77	0.77	9.3	YES	NO	bb	db	0.469
11	Total-pentafurans	28.77	7.629e3	4.295e3	0.654	1.78	1.55	49.9	YES	NO	MM	db	3.752
12	23478-PeCDF	31.20	1.750e3	1.120e3	0.786	1.56	1.55	12.3	YES	NO	db	dd	0.776
13	Total-pentafurans	31.05	1.392e3	8.597e2	0.654	1.62	1.55	10.9	YES	NO	dd	dd	0.709
14	234678-HxCDF	35.79	2.379e3	1.989e3	1.140	1.20	1.24	25.6	YES	NO	bb	bb	1.082
15	123678-HxCDF	34.95	1.861e3	1.733e3	1.091	1.07	1.24	27.4	YES	NO	db	db	0.886
16	123478-HxCDF	34.80	5.468e3	4.414e3	1.166	1.24	1.24	78.7	YES	NO	bd	dd	2.321
17	Total-hexafurans	34.66	8.669e2	7.178e2	1.141	1.21	1.24	14.4	YES	NO	bb	bd	0.401
18	Total-hexafurans	34.19	3.068e4	2.423e4	1.141	1.27	1.24	436.0	YES	NO	bb	bb	13.886
19	Total-hexafurans	33.90	6.800e2	5.713e2	1.141	1.19	1.24	10.9	YES	NO	bb	bb	0.316
20	Total-hexafurans	33.35	1.748e4	1.387e4	1.141	1.26	1.24	239.3	YES	NO	bb	bd	7.930
21	123468-HXCDF	33.14	5.380e3	4.631e3	1.169	1.16	1.24	77.8	YES	NO	bb	bb	2.345
22	1234789-HpCDF	40.93	2.448e3	2.284e3	0.953	1.07	1.05	32.8	YES	NO	bb	bb	1.891
23	Total-heptafurans	39.35	8.684e4	8.286e4	0.978	1.05	1.05	1286.7	YES	NO	bb	bb	58.870
24	1234678-HpCDF	38.68	3.496e4	3.427e4	1.003	1.02	1.05	525.7	YES	NO	bb	bb	21.111
25	OCDF	45.12	6.711e4	7.367e4	0.778	0.91	0.89	706.9	YES	NO	bb	bb	81.607
26	Total-penta1	27.12	1.244e4	8.387e3		1.48	1.55	242.2	YES	NO	bb	bb	4.527
27	Total-tetradioxins	24.46	6.667e2	9.360e2	1.024	0.71	0.77	8.8	YES	NO	bd	bb	0.372
28	1368-TCDD	23.46	9.824e2	1.224e3	1.015	0.80	0.77	11.2	YES	NO	bb	bb	0.516
29	Total-tetradioxins	25.52	2.524e2	3.106e2	1.024	0.81	0.77	3.6	YES	NO	bd	bb	0.131
30	Total-tetradioxins	24.95	4.590e2	5.457e2	1.024	0.84	0.77	4.7	YES	NO	bd	bb	0.233
31	Total-pentadioxins	30.20	1.093e3	7.675e2	1.502	1.42	1.55	12.7	YES	NO	db	db	0.494
32	Total-pentadioxins	30.06	1.483e3	1.015e3	1.502	1.46	1.55	19.9	YES	NO	bd	bd	0.663
33	123678-HxCDD	36.05	5.397e3	4.791e3	1.001	1.13	1.24	68.8	YES	NO	db	dd	3.195
34	123478-HxCDD	35.95	1.281e3	1.161e3	0.996	1.10	1.24	14.2	YES	NO	bd	bd	0.759
35	Total-hexadioxins	35.06	1.681e4	1.365e4	1.005	1.23	1.24	142.7	YES	NO	bd	bd	9.444
36	Total-hexadioxins	34.69	2.954e3	2.668e3	1.005	1.11	1.24	35.8	YES	NO	bb	bb	1.743
37	124679-HXCDD	33.92	1.525e4	1.242e4	1.115	1.23	1.24	181.9	YES	NO	bb	bb	7.670

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TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	1234679-HPCDD	39.14	1.976e5	1.928e5	1.137	1.02	1.05	955.0	YES	NO	bb	bb	137.003
39	1234678-HpCDD	40.17	1.349e5	1.298e5	1.039	1.04	1.05	635.4	YES	NO	bb	bb	101.630
40	OCDD	44.88	7.957e5	9.165e5	0.920	0.87	0.89	5706.8	YES	NO	bb	bb	839.180
41	12479-PECDD	28.74	3.020e3	2.013e3	2.301	1.50	1.55	23.9	YES	NO	MM	MM	0.872

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PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	23.18	3.714e4					2.5	NO		bd		
2	FUNCTION1 PFK	22.91	4.066e4					2.2	NO		bb		
3	FUNCTION1 PFK	22.41	1.866e5					8.2	YES		db		
4	FUNCTION1 PFK	22.36	1.435e5					9.3	YES		dd		
5	FUNCTION1 PFK	22.23	8.303e5					11.6	YES		bd		
6	FUNCTION1 PFK	21.71	4.667e6					38.3	YES		db		
7	FUNCTION1 PFK	21.41	2.094e6					54.1	YES		bd		
8	FUNCTION1 PFK	21.17	7.665e5					27.9	YES		bb		
9	FUNCTION1 PFK	25.79	1.176e5					3.9	YES		bd		
10	FUNCTION1 PFK	25.58	1.226e4					1.6	NO		bb		
11	FUNCTION1 PFK	25.28	9.928e4					3.4	YES		bb		
12	FUNCTION1 PFK	25.11	5.052e4					3.0	NO		bb		
13	FUNCTION1 PFK	24.83	9.430e3					1.1	NO		bb		
14	FUNCTION1 PFK	24.56	1.983e4					1.4	NO		bb		
15	FUNCTION1 PFK	24.45	2.398e4					1.3	NO		bb		
16	FUNCTION1 PFK	24.18	3.466e4					2.7	NO		db		
17	FUNCTION1 PFK	24.07	1.042e5					5.2	YES		dd		
18	FUNCTION1 PFK	24.01	7.245e4					5.6	YES		dd		
19	FUNCTION1 PFK	23.97	1.011e5					5.2	YES		dd		
20	FUNCTION1 PFK	23.87	4.862e4					5.0	YES		dd		
21	FUNCTION1 PFK	23.78	4.592e5					6.1	YES		dd		
22	FUNCTION1 PFK	23.51	1.459e5					8.0	YES		bd		
23	FUNCTION1 PFK	23.36	1.446e5					7.8	YES		db		
24	FUNCTION1 PFK	23.32	1.397e5					6.7	YES		dd		
25	FUNCTION1 PFK	27.85	9.198e5					10.9	YES		bb		
26	FUNCTION1 PFK	27.50	7.881e5					18.3	YES		db		
27	FUNCTION1 PFK	27.21	4.560e5					9.9	YES		dd		
28	FUNCTION1 PFK	27.17	8.891e4					8.8	YES		dd		
29	FUNCTION1 PFK	27.13	1.050e5					7.9	YES		dd		
30	FUNCTION1 PFK	26.99	1.508e5					5.1	YES		bd		
31	FUNCTION1 PFK	26.71	1.237e4					1.4	NO		bb		
32	FUNCTION1 PFK	26.57	7.058e3					0.8	NO		bb		
33	FUNCTION1 PFK	26.47	1.637e4					1.3	NO		bb		
34	FUNCTION1 PFK	26.28	1.421e4					1.7	NO		db		
35	FUNCTION1 PFK	26.23	4.489e4					2.5	NO		bd		
36	FUNCTION1 PFK	26.07	1.743e5					7.7	YES		db		
37	FUNCTION1 PFK	25.96	1.297e5					5.3	YES		dd		

ID: 23C0071-02, Name: 23042427, Date: 25-Apr-2023, Time: 11:52:36, Conditions: AUTOSPEC01, User: pk

PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	32.30	2.015e5					6.5	YES		bb		0.000
2	FUNCTION2 PFK	29.30	2.921e4					4.6	YES		bb		0.000

PFK3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	37.26	4.929e5					11.3	YES		db		0.000
2	FUNCTION3 PFK	37.20	2.543e6					13.6	YES		bd		0.000
3	FUNCTION3 PFK	36.45	6.715e6					28.1	YES		db		0.000
4	FUNCTION3 PFK	35.72	6.807e5					11.9	YES		dd		0.000
5	FUNCTION3 PFK	35.56	8.150e5					10.6	YES		bd		0.000
6	FUNCTION3 PFK	34.24	2.899e7					27.7	YES		bb		0.000

PFK4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

PFK5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

ID: 23C0071-02, Name: 23042427, Date: 25-Apr-2023, Time: 11:52:36, Conditions: AUTOSPEC01, User: pk

ETHERS1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	23.71	8.618e1					2.8	NO		bb		0.000
2	FUNCTION1 HXCD...	22.13	1.089e2					3.3	YES		bb		0.000
3	FUNCTION1 HXCD...	21.44	9.431e1					3.1	YES		db		0.000
4	FUNCTION1 HXCD...	21.40	1.762e2					2.3	NO		dd		0.000
5	FUNCTION1 HXCD...	21.23	1.988e2					3.9	YES		dd		0.000
6	FUNCTION1 HXCD...	21.14	1.875e2					4.0	YES		bd		0.000
7	FUNCTION1 HXCD...	27.77	7.105e1					2.3	NO		bb		0.000
8	FUNCTION1 HXCD...	27.17	1.488e2					2.9	NO		bb		0.000
9	FUNCTION1 HXCD...	26.34	9.336e1					2.4	NO		bb		0.000
10	FUNCTION1 HXCD...	26.07	1.414e2					5.9	YES		bb		0.000
11	FUNCTION1 HXCD...	25.84	8.412e2					24.0	YES		bb		0.000
12	FUNCTION1 HXCD...	25.45	1.833e2					2.8	NO		bb		0.000
13	FUNCTION1 HXCD...	24.79	9.324e1					2.3	NO		db		0.000
14	FUNCTION1 HXCD...	24.70	7.932e1					3.8	YES		bd		0.000

ETHERS2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	32.51	9.052e1					2.9	NO		bb		0.000
2	FUNCTION2 HPCD...	30.13	9.865e1					3.0	YES		bb		0.000

ETHERS4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	35.94	1.293e2					2.6	NO		bb		0.000
2	FUNCTION3 OCDPE	35.56	1.092e2					3.0	YES		bb		0.000
3	FUNCTION3 OCDPE	33.96	8.293e1					3.0	NO		bb		0.000

ETHERS5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	38.34	9.453e3					229.2	YES		bb		0.000

ID: 23C0071-02, Name: 23042427, Date: 25-Apr-2023, Time: 11:52:36, Conditions: AUTOSPEC01, User: pk

ETHERS6

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 DCDPE	43.06	7.473e1					2.5	NO		bb		0.000

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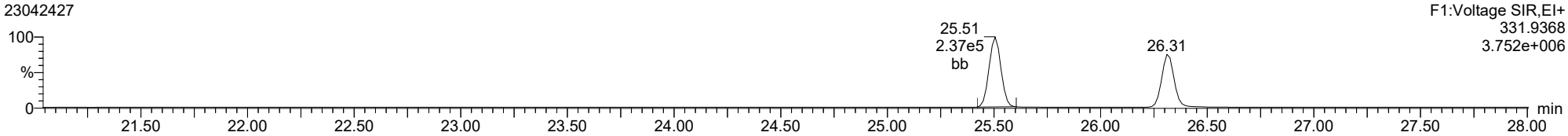

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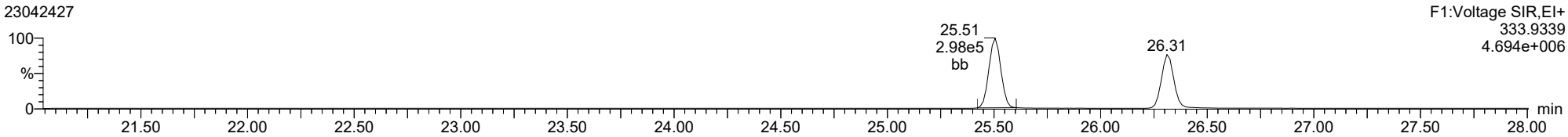

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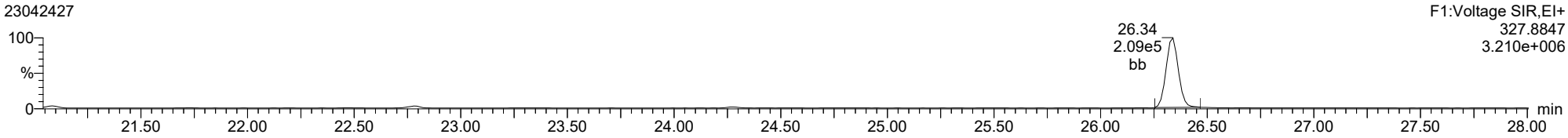

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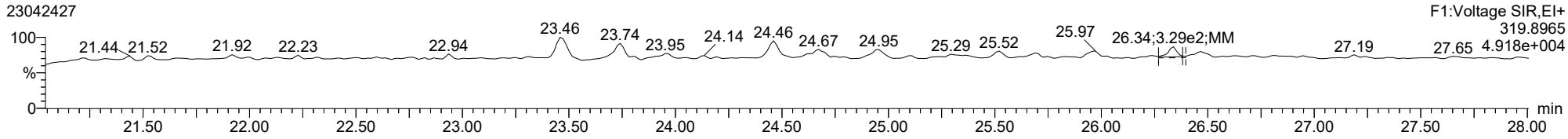

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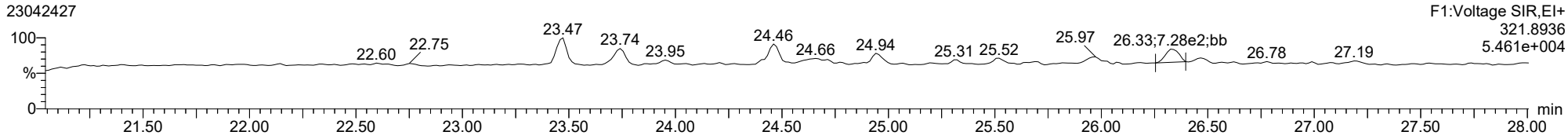

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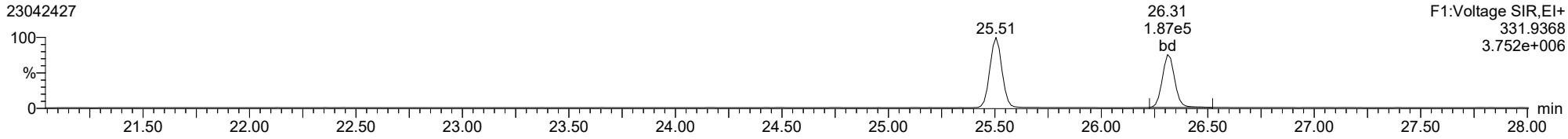

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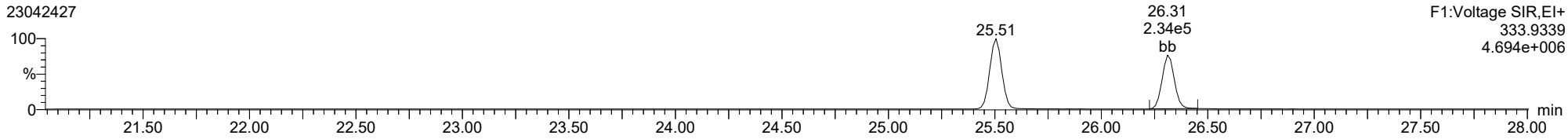

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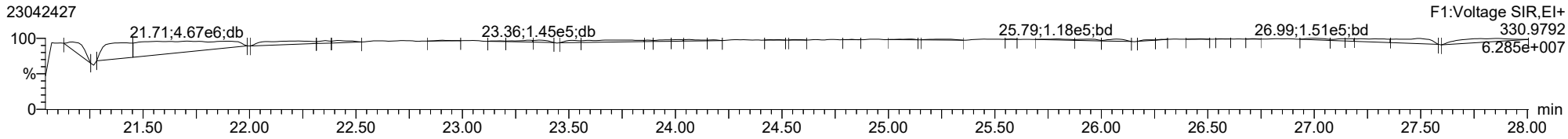

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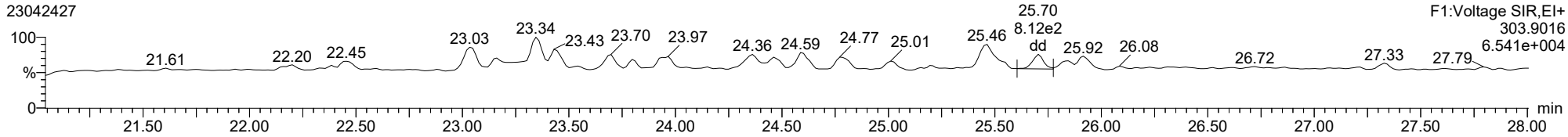

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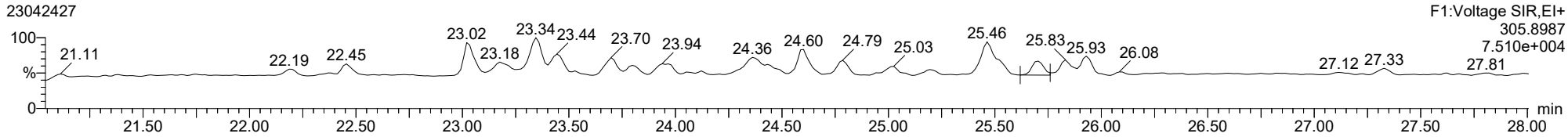

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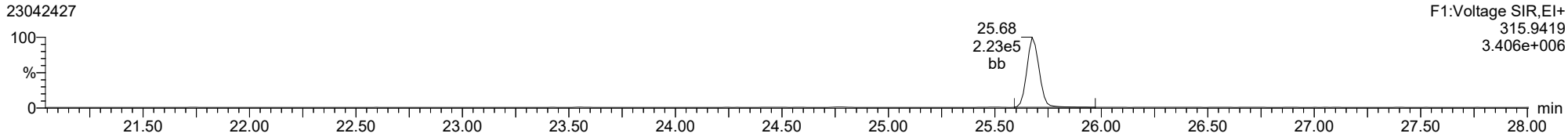

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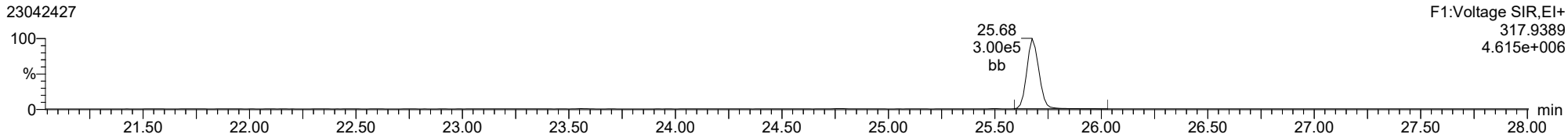

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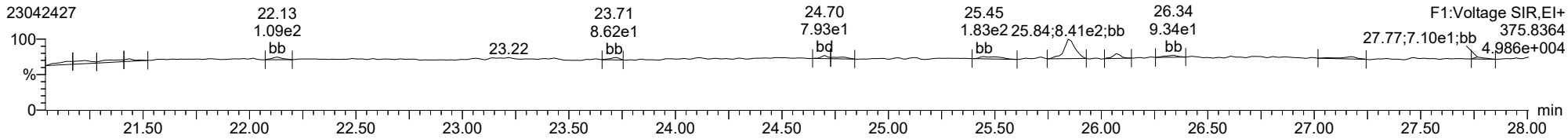

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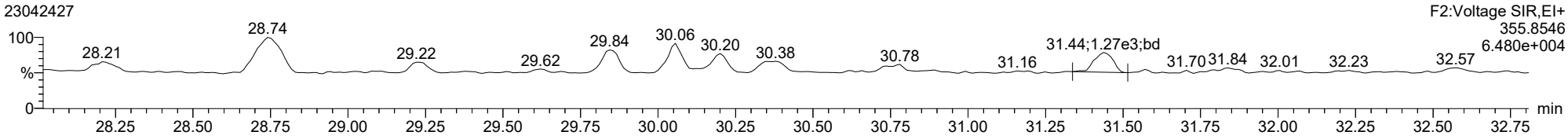
12378-PeCDD



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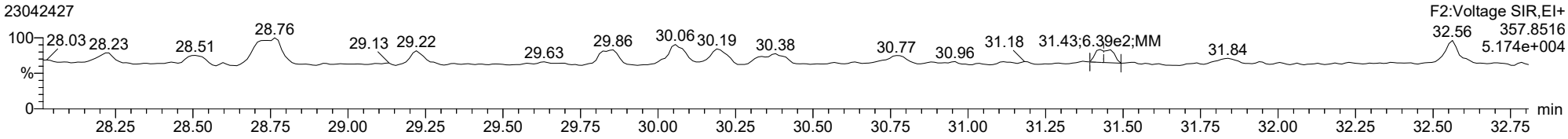

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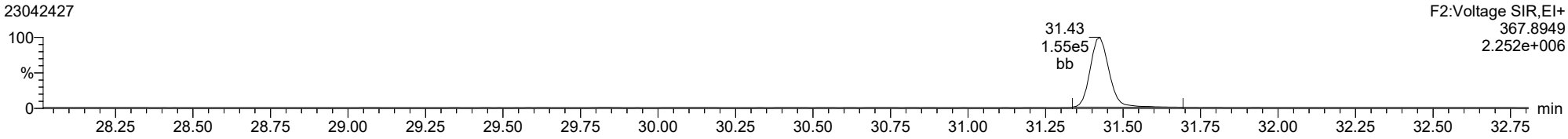

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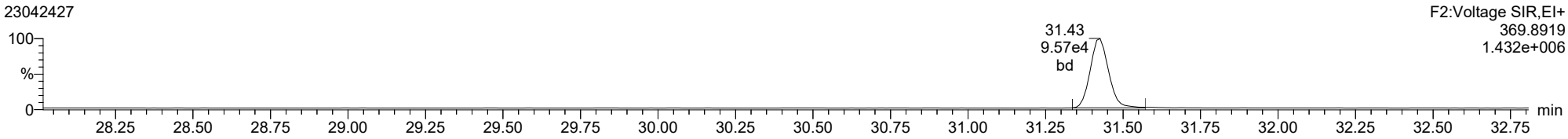
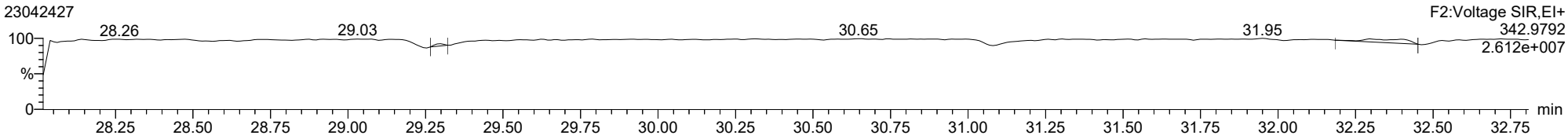


FUNCTION2 PFK



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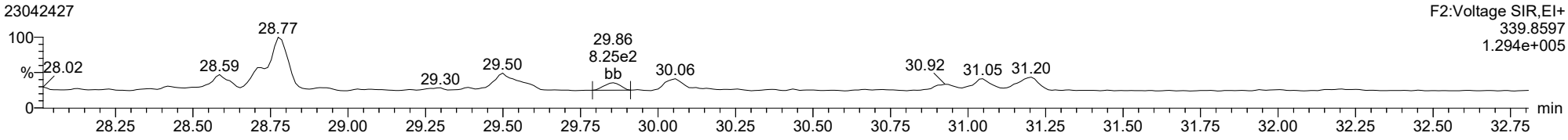

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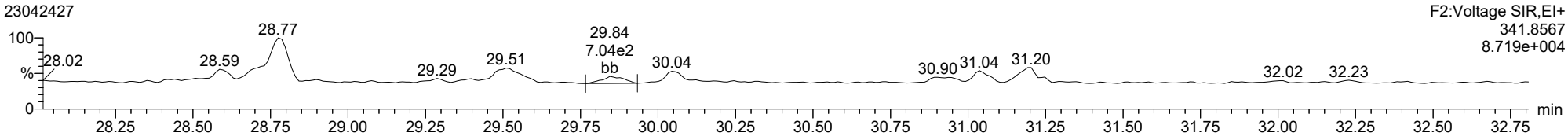

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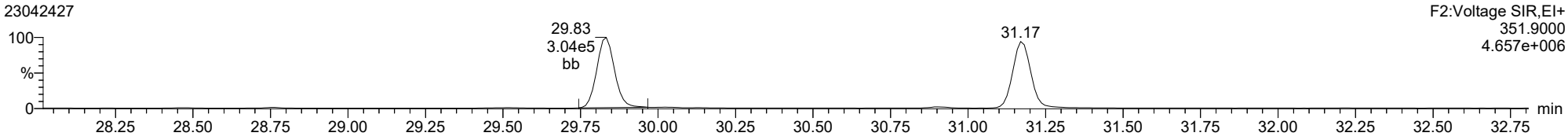

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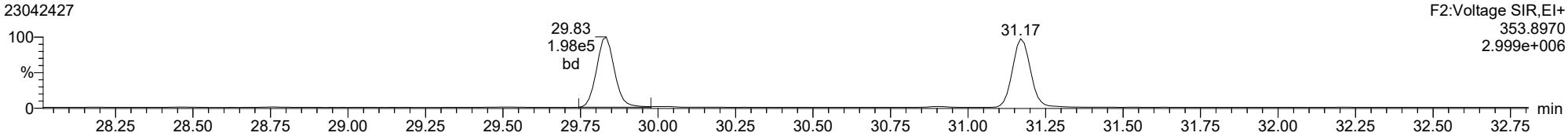

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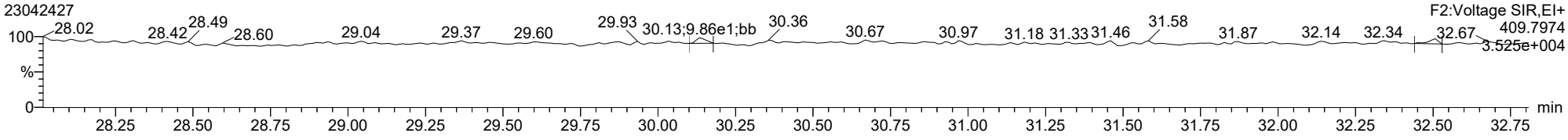

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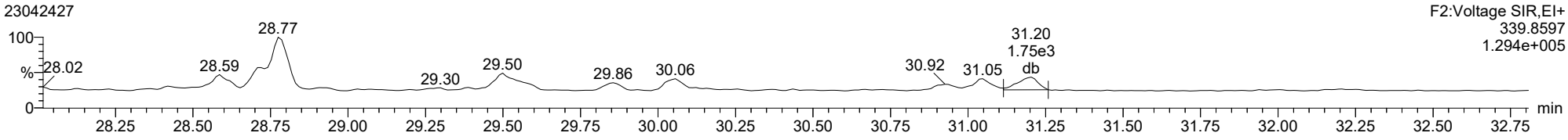

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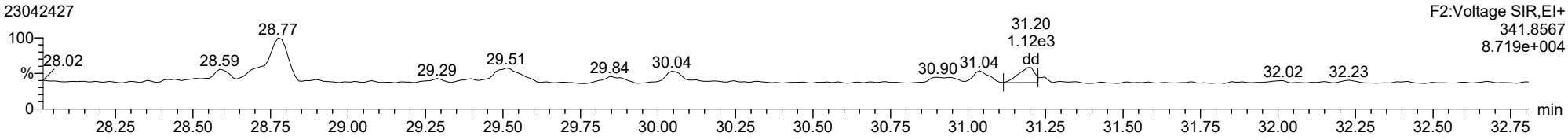

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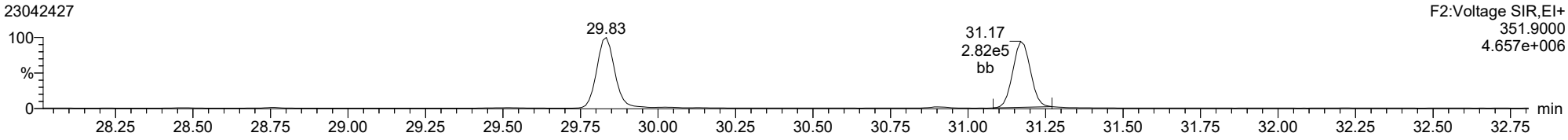

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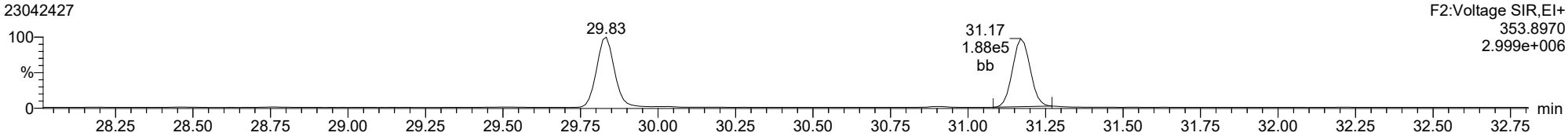

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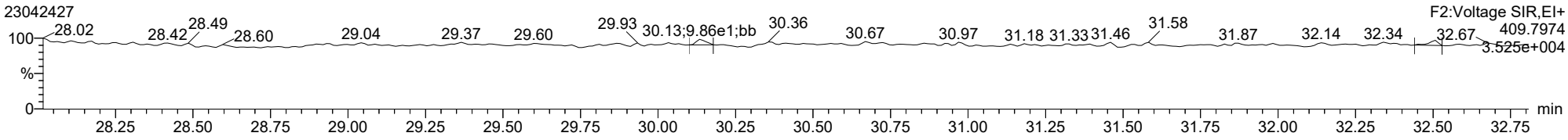

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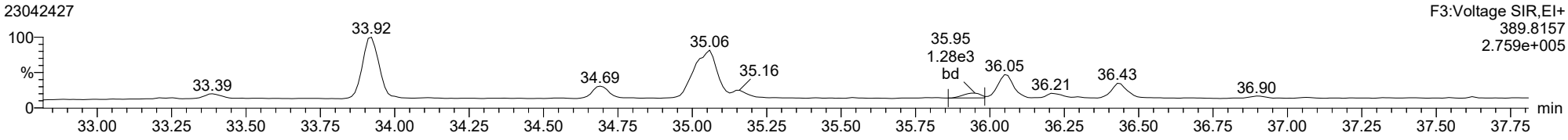

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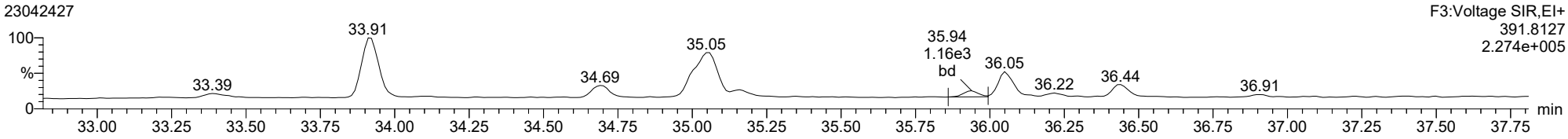

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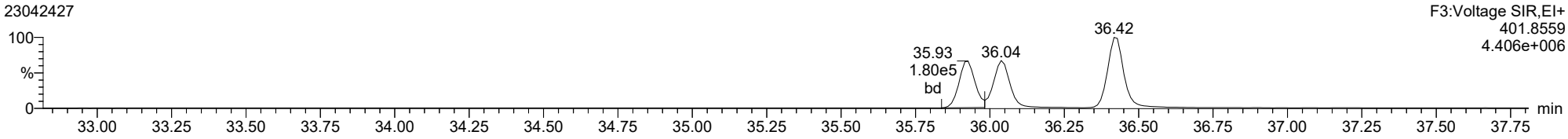

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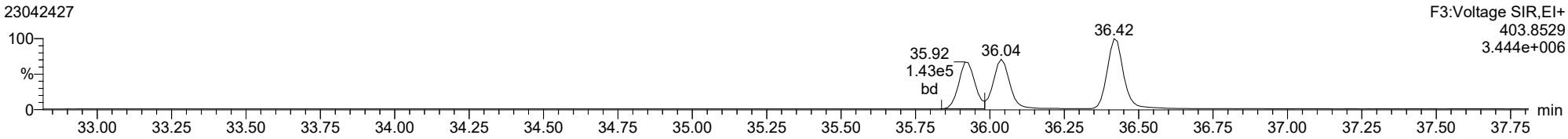

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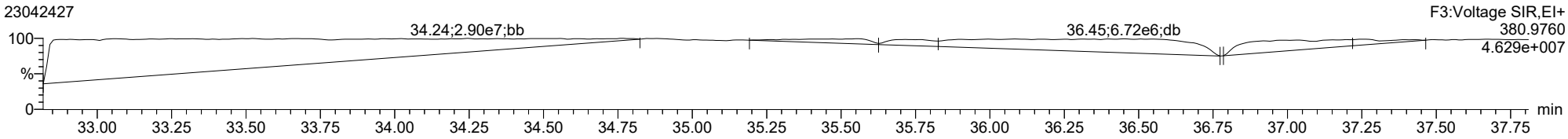

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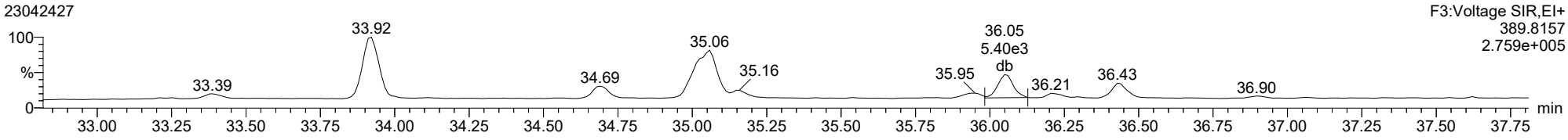
123678-HxCDD



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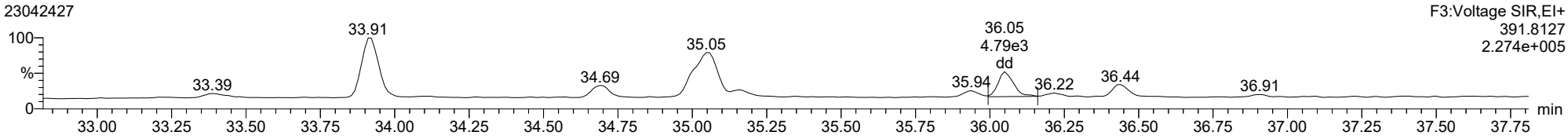

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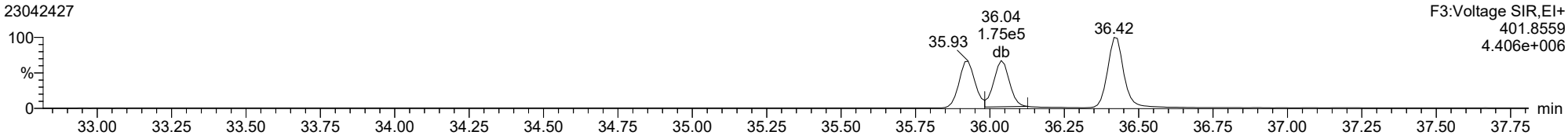

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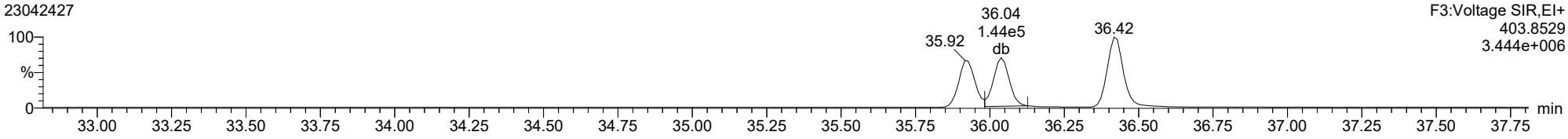

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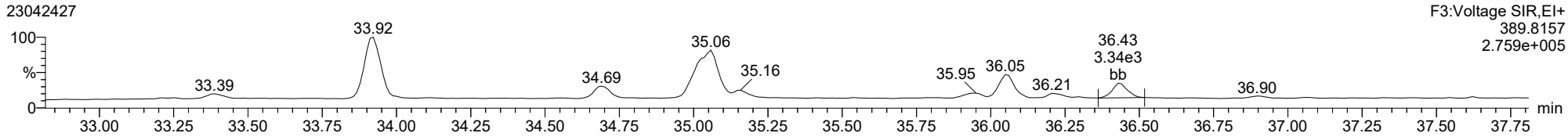

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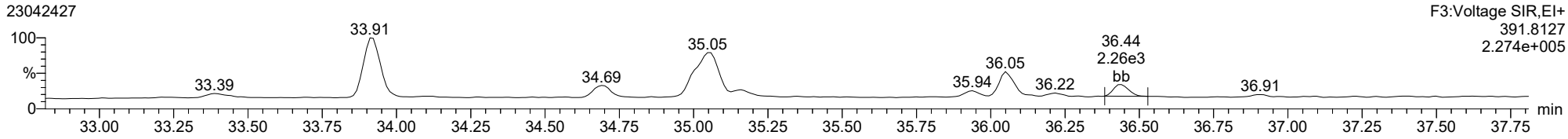

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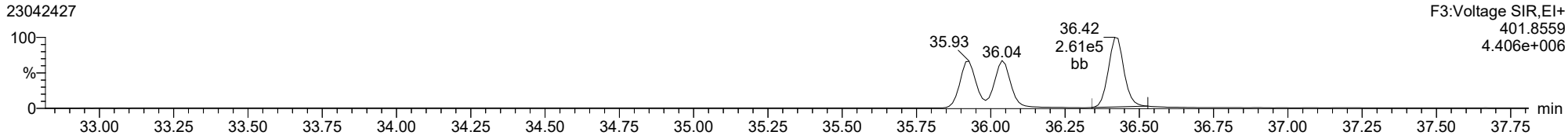

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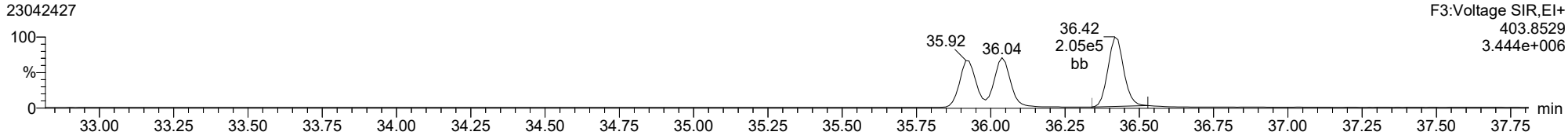

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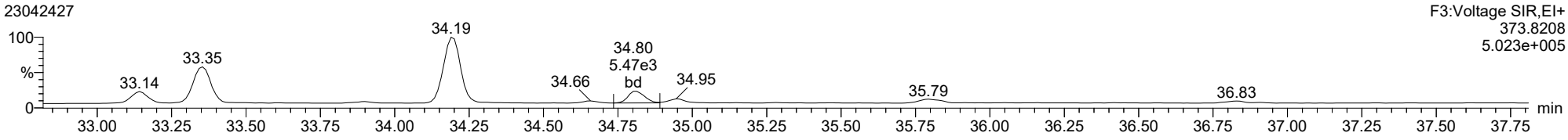

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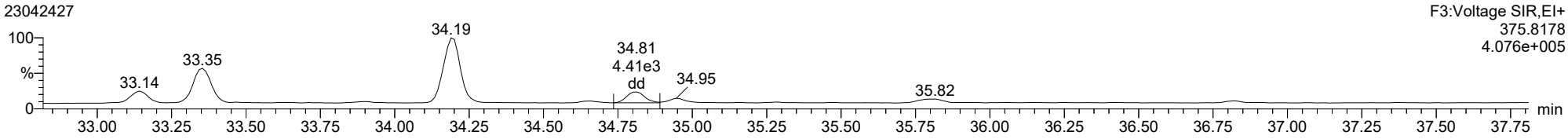

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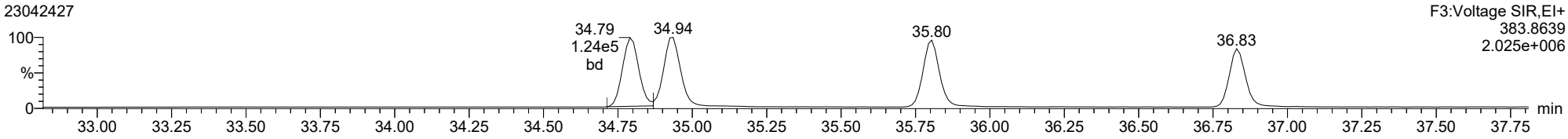

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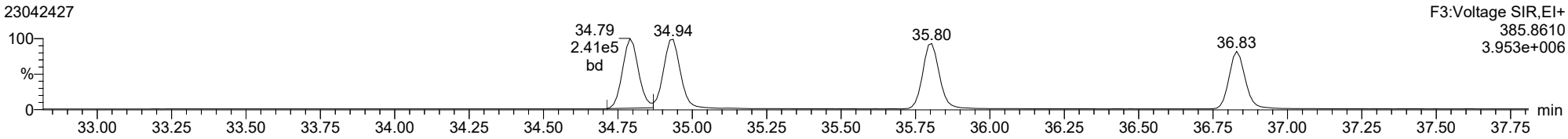

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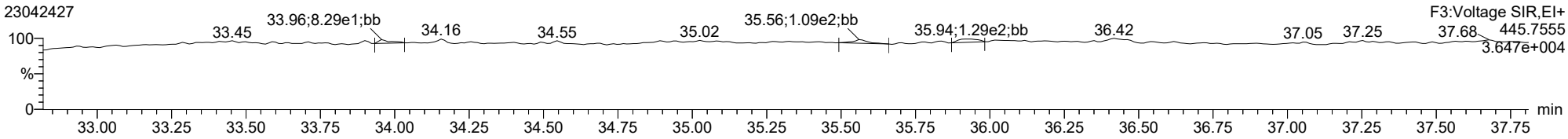

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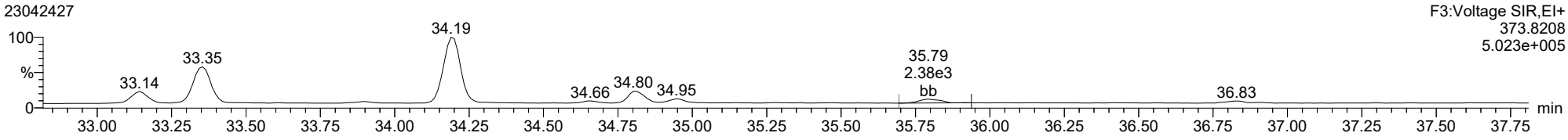

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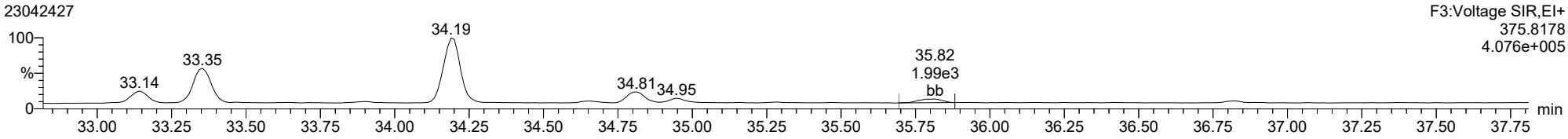

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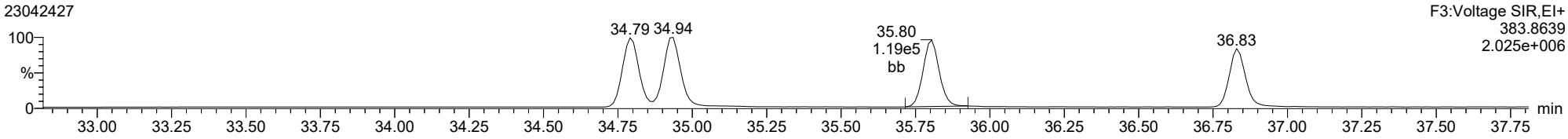

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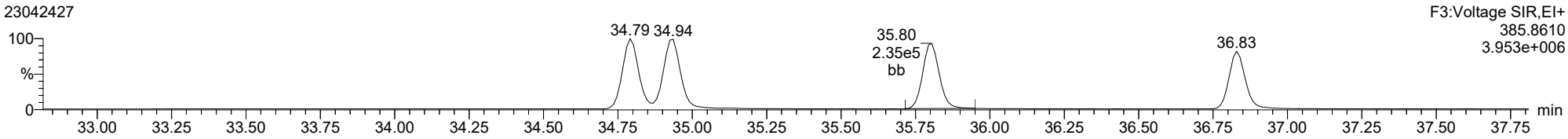

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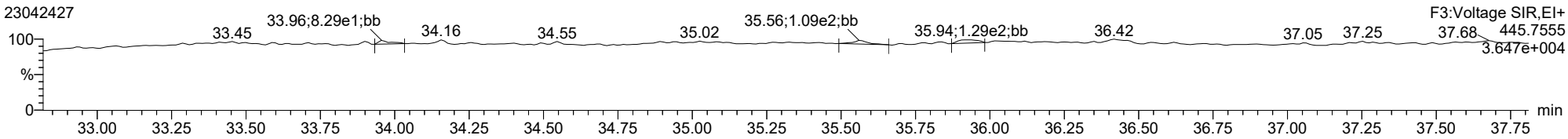

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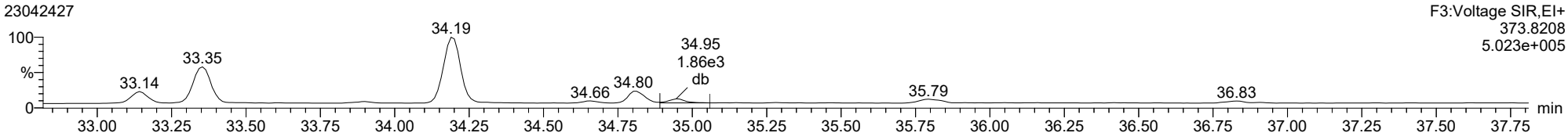

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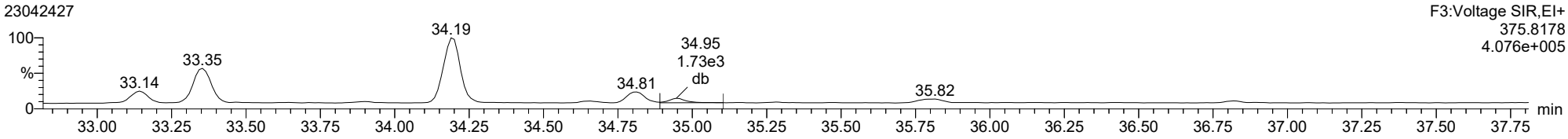

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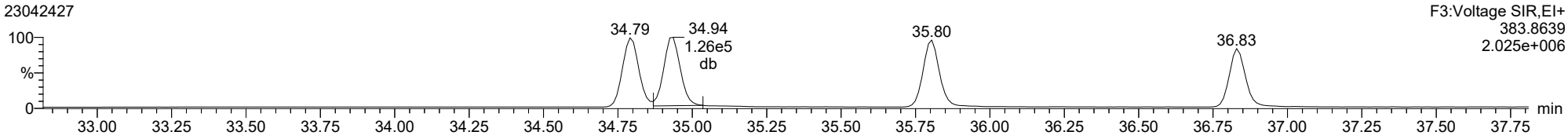

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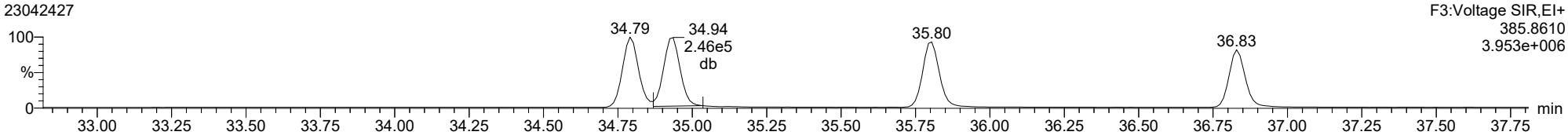

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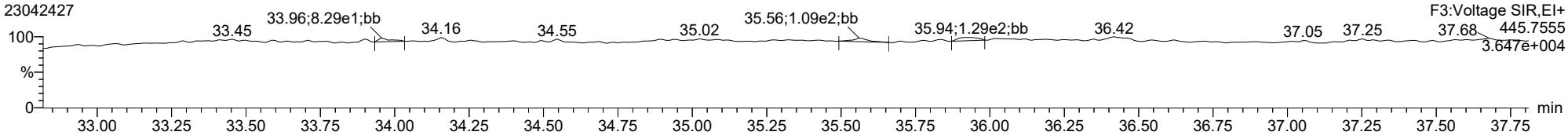

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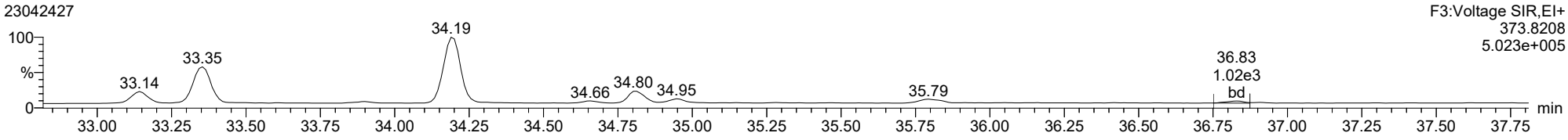

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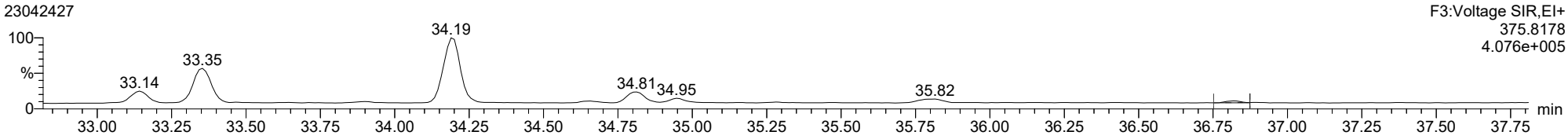

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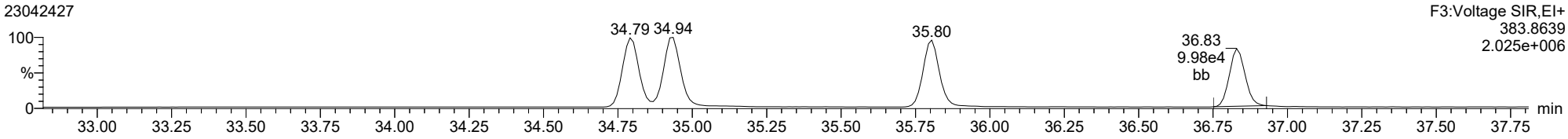

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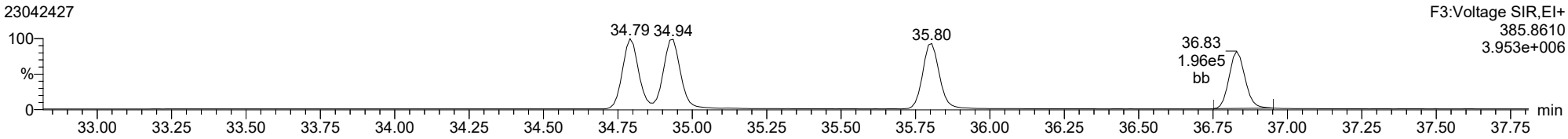

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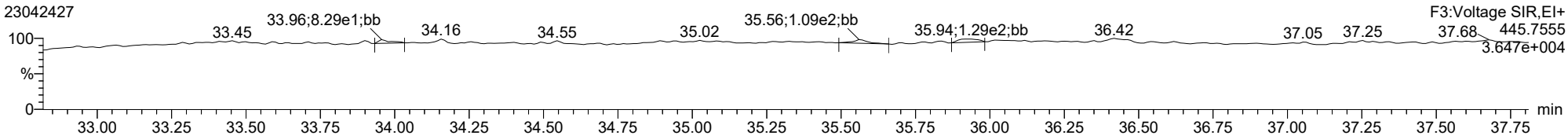

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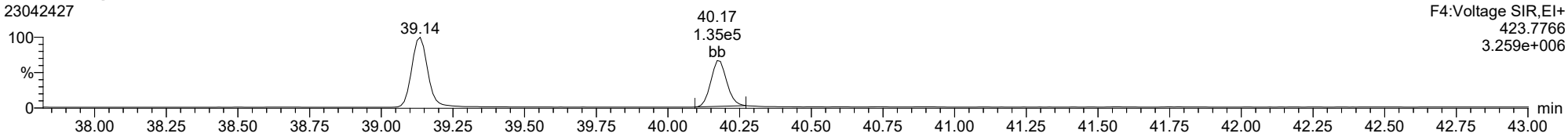

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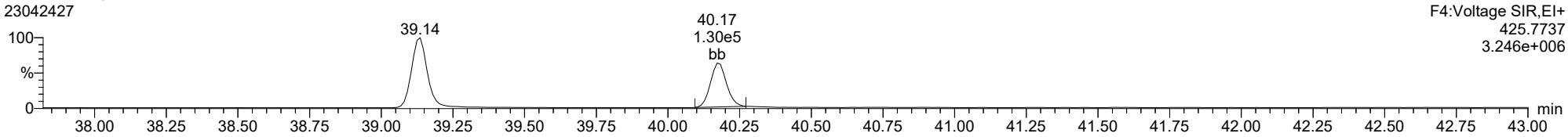

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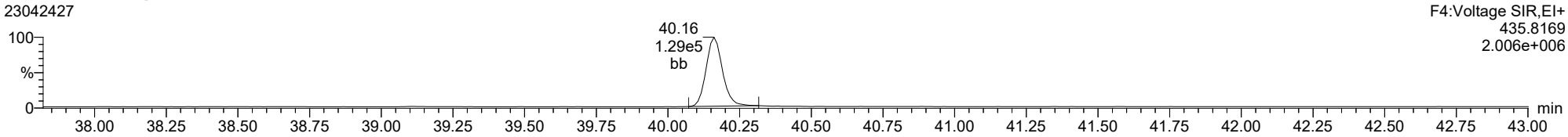

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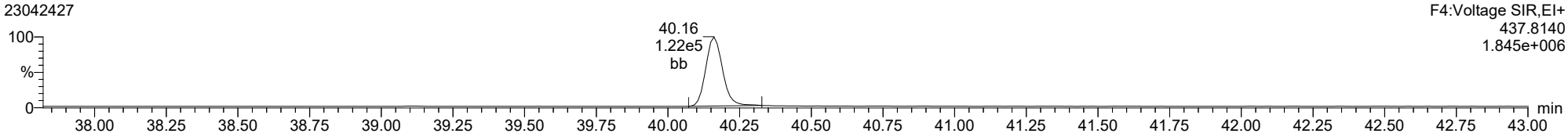

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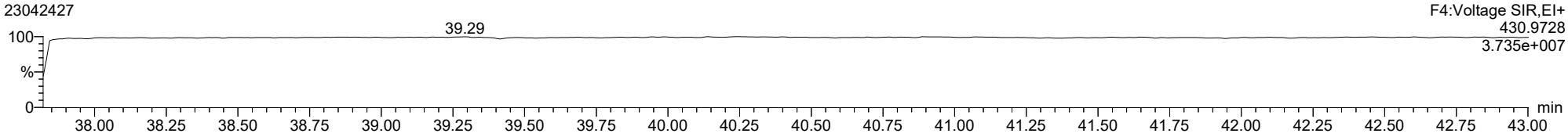

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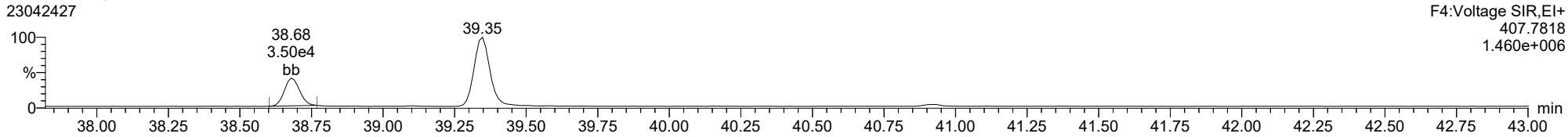

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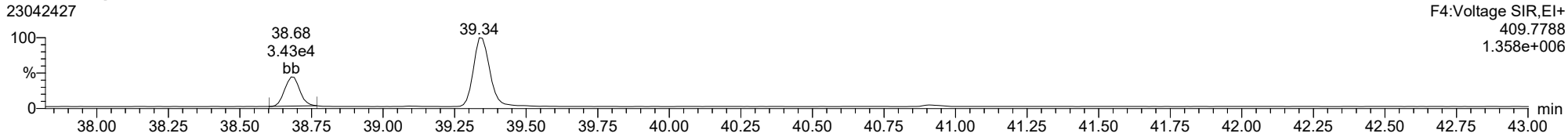

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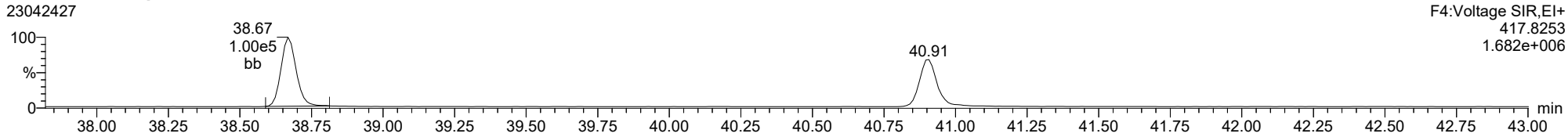

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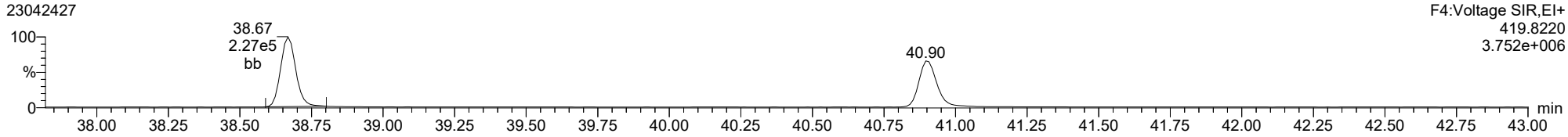

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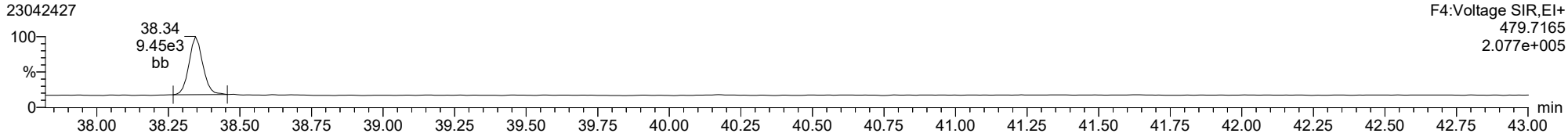

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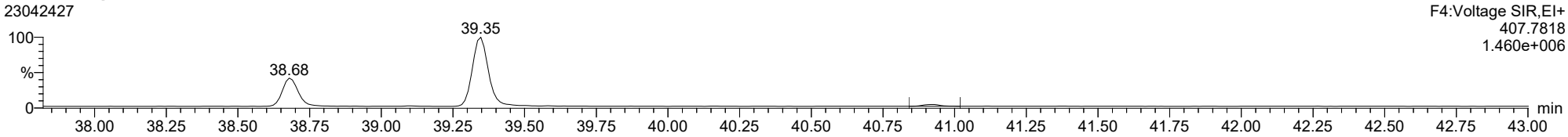

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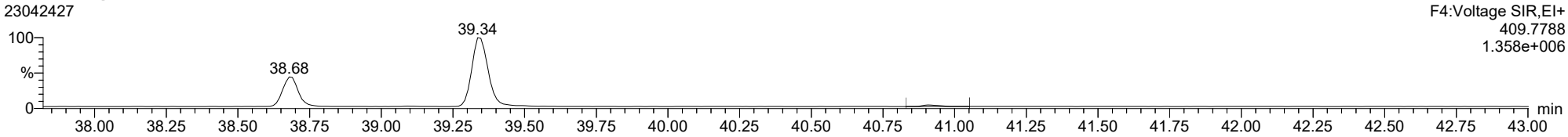

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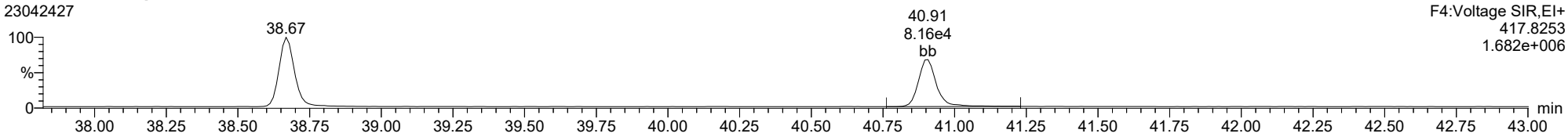

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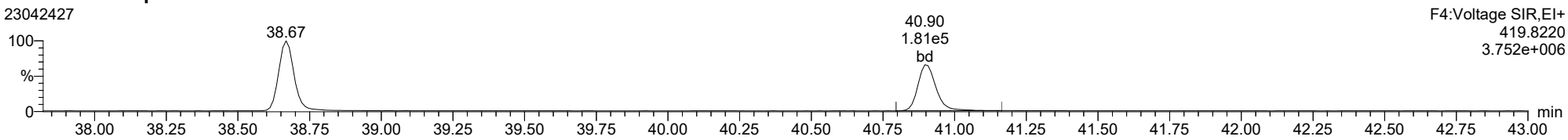

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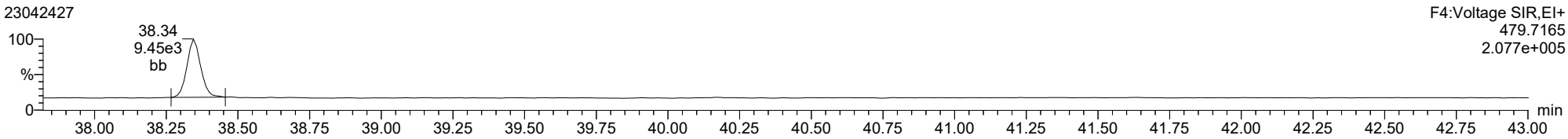

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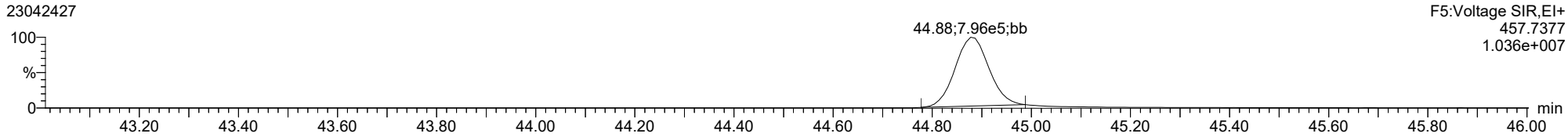

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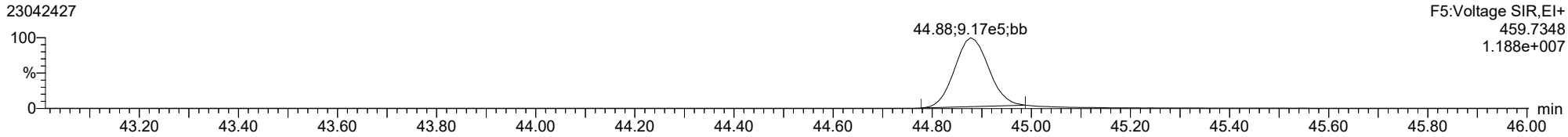

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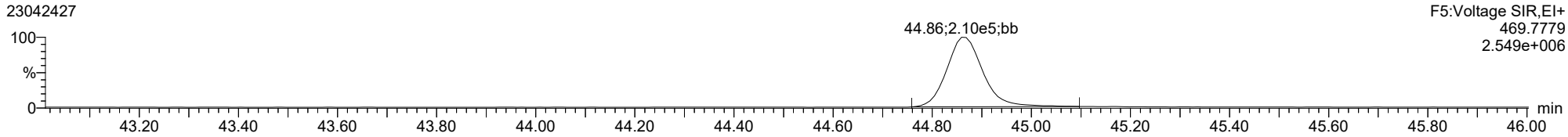

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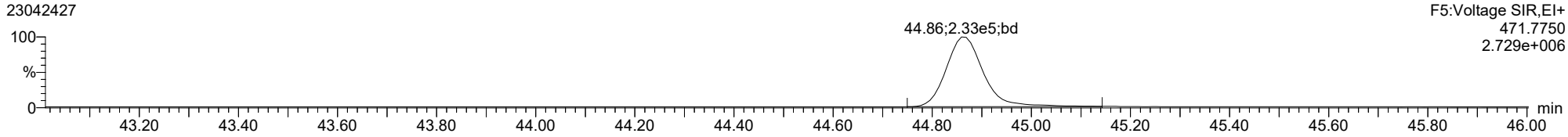

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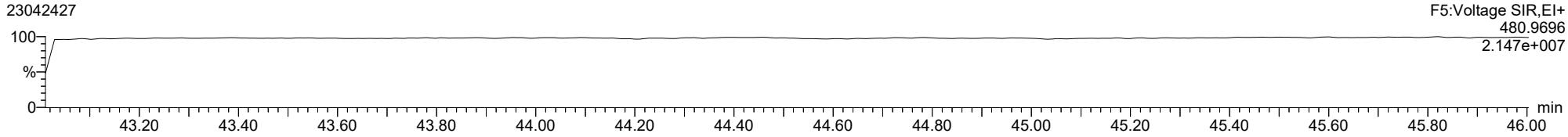

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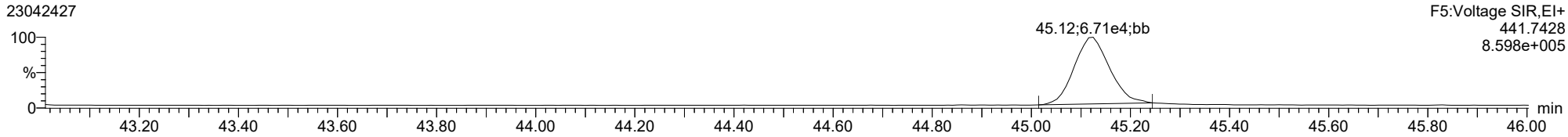
OCDF



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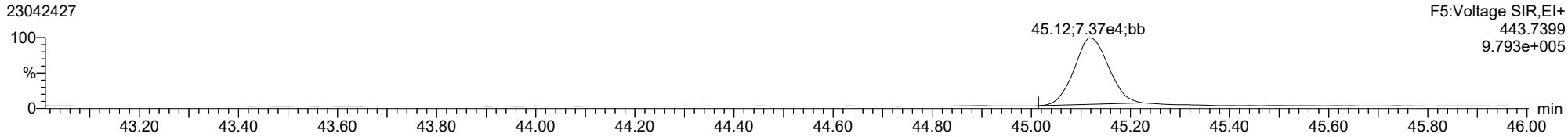
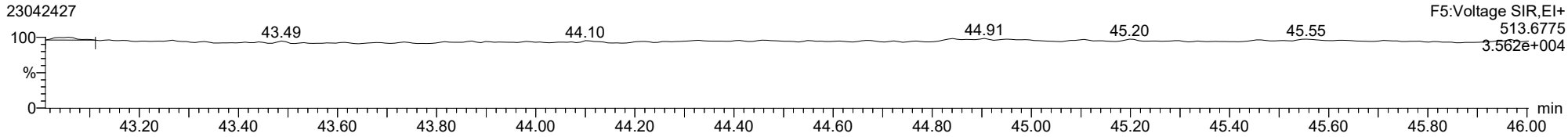


FUNCTION5 DCDPE



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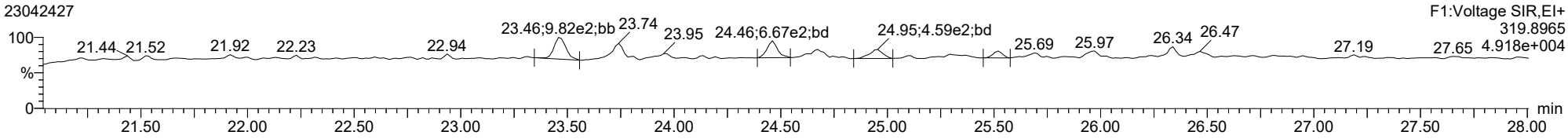
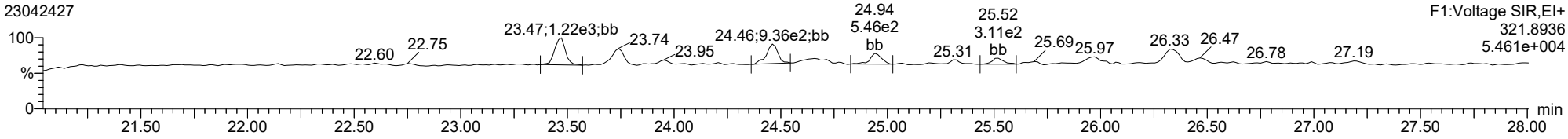
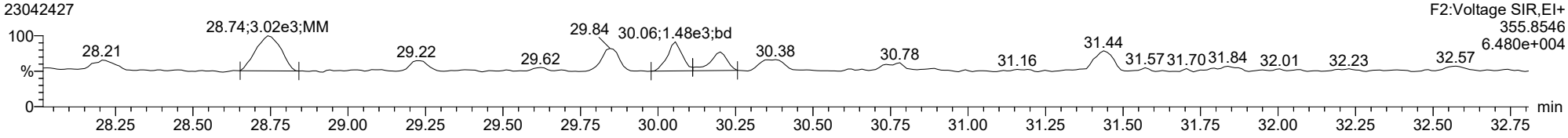
Total-tetradioxins



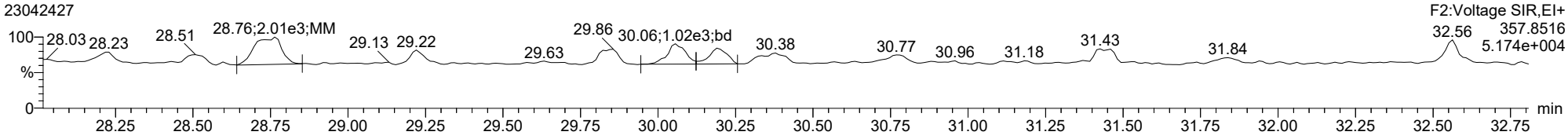
Total-tetradioxins



Total-pentadioxins



Total-pentadioxins



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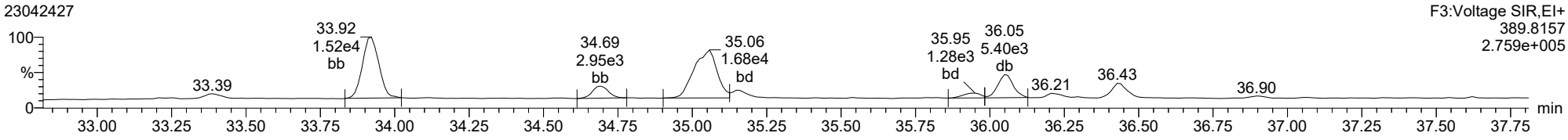
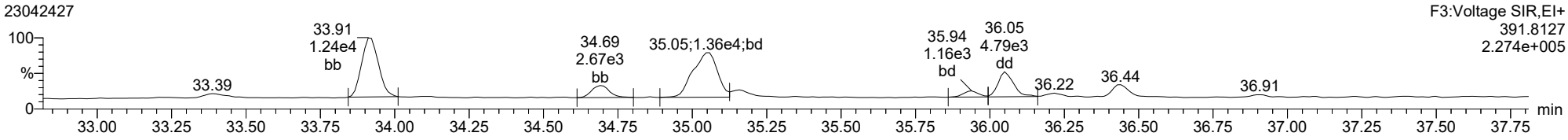
Total-hexadioxins



Total-hexadioxins



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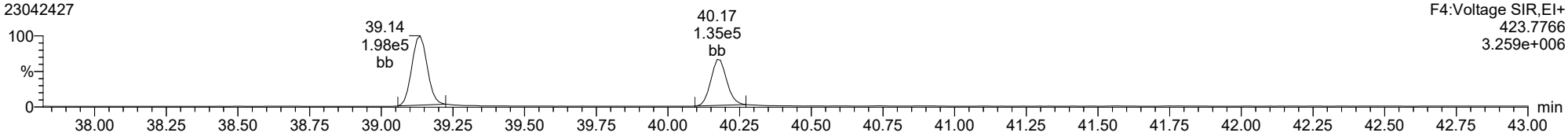
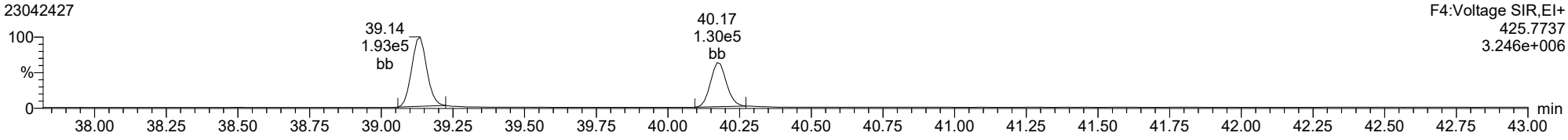
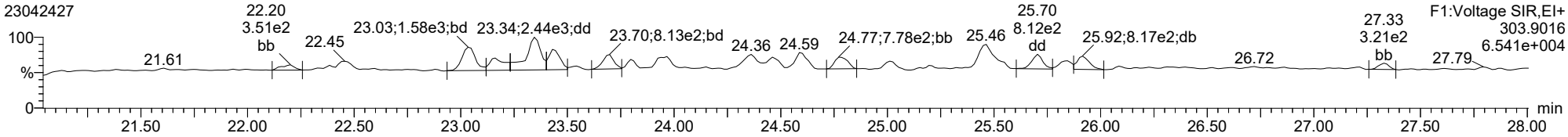


Total-heptadioxins

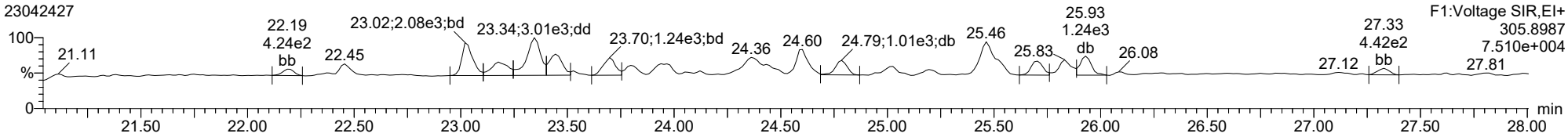


ID: 23C0071-02, Name: 23042427, Date: 25-Apr-2023, Time: 11:52:36, Conditions: AUTOSPEC01, User: pk

Total-tetrafurans



Total-tetrafurans



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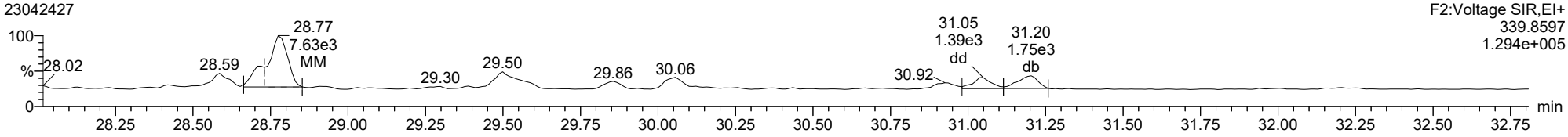
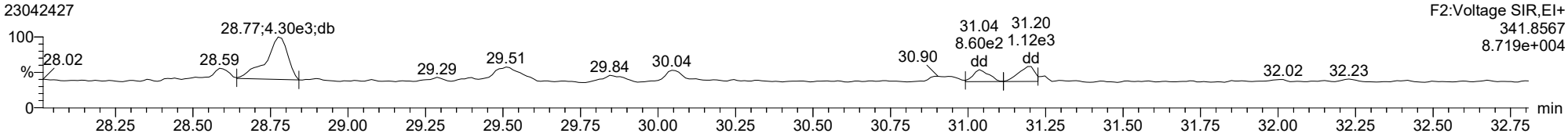


Total-pentafurans



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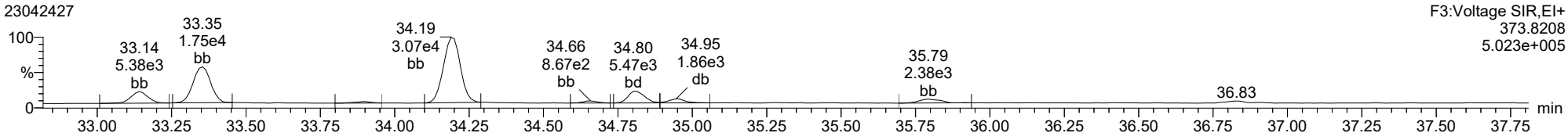
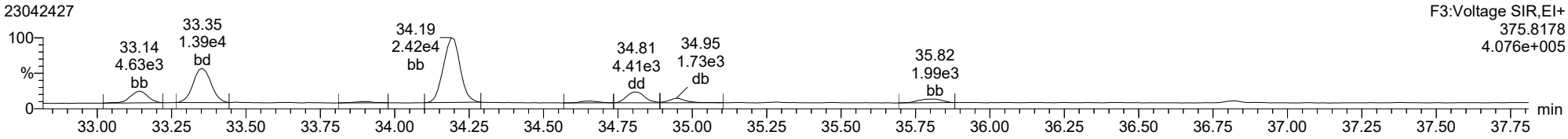
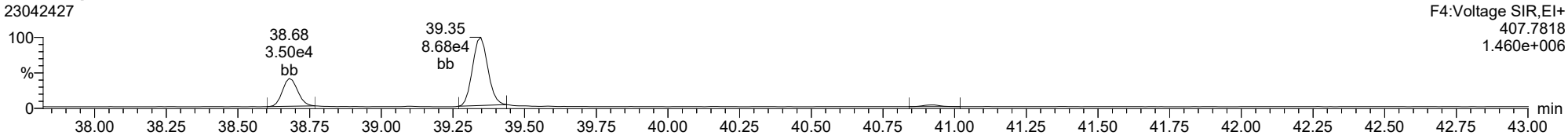
Total-hexafurans



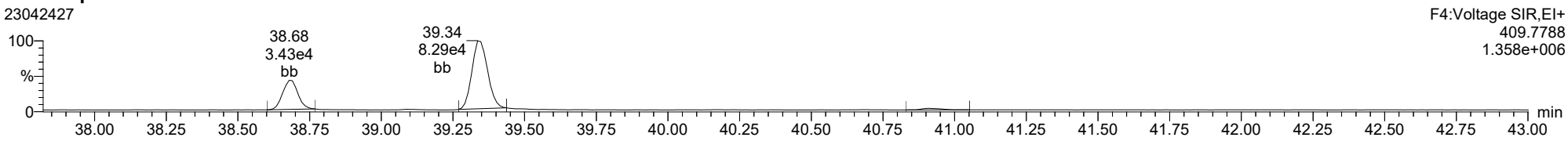
Total-hexafurans



Total-heptafurans



Total-heptafurans



PREPARATION BATCH SUMMARY

EPA 1613B

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Batch: BLC0379 Batch Matrix: Solid
Preparation: EPA 8290

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW23-SS1037	23C0071-02	23042427	03/15/23 06:39	
Blank	BLC0379-BLK1	23042423	03/15/23 06:39	
LCS	BLC0379-BS1	23042424	03/15/23 06:39	
LDW23-SS1037	BLC0379-DUP1	23042426	03/15/23 06:39	
Reference	BLC0379-SRM1	23042425	03/15/23 06:39	

Analytical Resources, LLC
Analytical Chemists and Consultants

HRGCMS Dioxin/Furan Preparation Bench Sheet EPA Methods 8290A or 1613B

Batch: BLC0379

Solid Samples

ARI Work Orders:	23C0071,23C0109,23C0174		
Matrix (circle one)	(Soil) Sediment Oil Tissue		
Extraction Method	Start Date/Time:	End Date/Time:	
(Soxhlet) SepF Shake out	3/21/23 15:43	3/22/23 07:51	

Reagents/Equipment Used	NA	ID / Lot Number	Initials	Date
Glasswool		JD12850	DP	3/23/23
Basic Silica		L0000710	DP	3/23/23
Acid Silica		L001728	DP	3/23/23
Activated Florisil		K005956	DP	3/23/23
Balance		24650344	DP	3/21/23
Toluene		K011233	DP	3/21/23
Hexane		L000957	DP	3/22/23
CH2Cl2		L002621	DP	3/23/23
H2SO4		L001033	DP	3/23/23
Na2SO4		L002484	DP	3/21/23
Other (RM)		L001274	DP	3/21/23
0% Silica		K011054	DP	3/23/23
Nonane		H006038	DP	3/24/23

Lab Number & Container	Sample Name	% Solids	Sample Weight Equal to dry (g) (Target Dry)	Actual	RotoVap 45 °C	Water Trap Vol (mL)	Final Vol. (uL)
23C0071-02 A	LDW23-SS1037	50.61	(19.76)	19.84	1/2	9.0	20
~~23C0071-03 A~~	~~LDW23-SS1037~~	~~50.61~~	~~(19.76)~~		~~1/2~~		~~20~~
23C0109-03 A	LDW23-SS1105	37.08	(26.97)	26.99	1/2	13.6	20
23C0174-01 A	LDW23-DB01 - <2mm	92.31	(10.83)	10.83	1/2	0.7	20
23C0174-02 A	LDW23-DB02 - <2mm	83.3	(12.01)	12.05	1/2	1.7	20
23C0174-03 A	LDW23-DB03 - <2mm	81.77	(12.23)	12.24	1/2	1.9	20
BLC0379-BLK1	Blank	100	()	10.01	1/2	0.0	20
BLC0379-BS1	LCS	100	()	10.01	1/2	0.0	20
BLC0379-DUP1	Duplicate 23C0071-02A	50.61	(19.76)	19.84	1/2	7.0	20
BLC0379-SRM1	Reference	100	()	10.00	1/2	0.0	20
Prep Analyst / Date:	DP 3/21/23				DP 3/22/23	DP 3/22/23	

Standards Used	Vol	ID / Lot Number	Concentration	Expiration Date	Analyst	Witness	Date
Recovery Standard	1.0 mL	L002305	2/4 ng/mL	3/2/23	DP	TW	3/21/23
OPR	1.0 mL	L000046	0.2/1.0/2.0 ng/mL	1/3/24	DP	TW	3/21/23
~~QLS Standard~~	~~1.0 mL~~		~~0.1/0.5/0.1ng/mL ng/L~~				
Cleanu-up Standard	1.0 mL	L001332	0.8 ng/mL	2/8/24	DP	M	3/23/23

Verify Client ID
Analyst / Date: DP 3/21/23

Acid Clean
(Y) N
Analyst / Date: DP 3/23/23

Silica-Florisil Clean
(Y) N
Analyst / Date: DP 3/23/23

Supervisor Review By 4/19/23 Date

Printed: 3/15/2023 6:43:44AM

3083F
Page 1 of 1

TOTAL SOLIDS BENCHSHEET							Batch:	BLC0248
Method HRSM01.2							Date:	3/15/2023 5:03
(dry at 110 C)							Analyst:	NL
Instrumentation							Drying Oven:	18
							Analytical Balance:	24650344

Batch drying time					
Record times as mm/dd/yy hh:mm		Oven Temp, C	TS (%) calculated as:	Oven Temps, °C	
Date/time in oven:	3/14/2023 11:55	112	Final dry wt (g) = (Dry Wt - Tare Wt)	Start Temp:	112
Date/time out:	3/15/2023 5:03	111	TS = (Final Dry Wt X 100)/ (sample & dish -dish tare)	End Temp:	111
Elapsed hrs:	17.1				

SAMPLE ID	Dish Tare Wt (g)	Dish with Sample (g)	Dry Wt (g)	Solids Wt (g)	TS (%)	Sample Decanted
23C0174-01	0.8000	11.9900	11.1300	10.33	**92.31%**	No
23C0174-02	0.8200	11.7200	9.9000	9.08	**83.30%**	No
23C0174-03	0.8100	11.6700	9.6900	8.88	**81.77%**	No

TOTAL SOLIDS BENCHSHEET							Batch:	BLC0248
Method HRSM01.2							Date:	
(dry at 110 C)							Analyst:	M
Instrumentation							Drying Oven:	ϕ18
							Analytical Balance:	2465ϕ374

Batch drying time								
Record times as mm/dd/yy hh:mm			Oven Temp, C	TS (%) calculated as:			Oven Temps, °C	
Date/time in oven:	3/14/23	1155	112 °C	Final dry wt (g) = (Dry Wt - Tare Wt)			Start Temp:	112 °C
Date/time out:	3/15/23	ϕ5ϕ3	111 °C	TS = (Final Dry Wt X 100)/ (sample & dish -dish tare)			End Temp:	111 °C
Elapsed hrs:	0.0							

SAMPLE ID	Dish Tare Wt (g)	Dish with Sample (g)	Dry Wt (g)	Solids Wt (g)	TS (%)	Sample Decanted
23C0174-01	ϕ.8ϕ	11.99	11.13			No
23C0174-02	ϕ.82	11.72	9.9ϕ			No
23C0174-03	ϕ.81	11.67	9.69			No

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Laboratory Analyst Notes

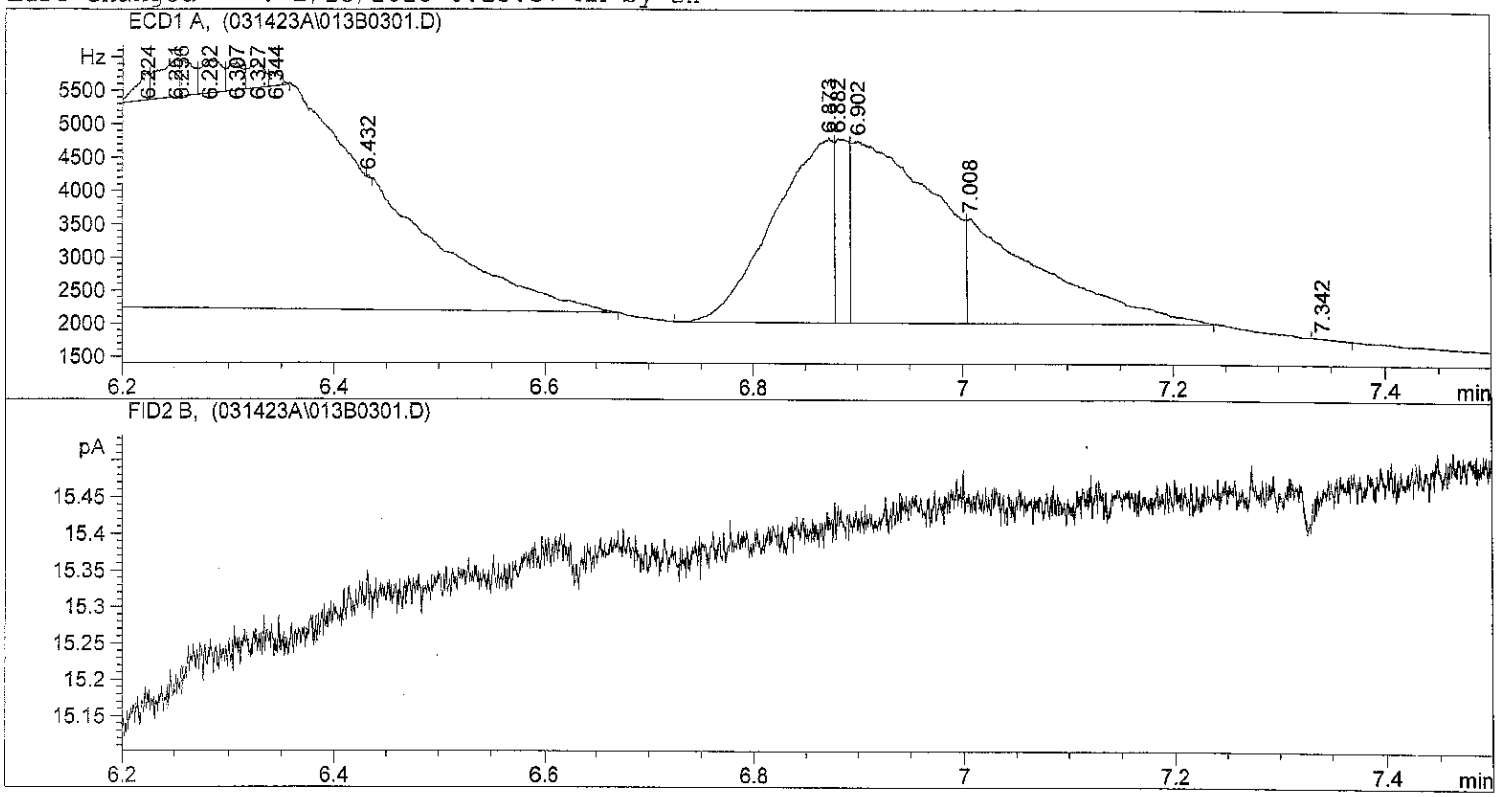
Extraction Parameter: Dioxin Extraction Batch: BLC0379

Total Solids Batch: BLC0248 Work Order(s): 23C0174, ~~23C0254~~ M 3/14/23

Screens: Soil/Sediment/Solid/Other:	Analyst/Date
☒ No Anomalies (standard soil/wet sediment/sand/gravel)= 23C0174-01A-03A	M 3/14/23
☐ Standing Water Decanted (Not shared)=	
☐ Standing Water Homogenized (Shared samples)=	
☐ Clay/Clumps (Difficult to homogenize)=	
☐ Rocks (%+size)?	
☐ Organics (Leaves/sticks/grass)=	
☐ Oily, obvious fuel/sulfur odors=	
☐ Received in 32oz jar(s)=Homogenized in Pyrex dish=	
☐ Previously Frozen =	
☐ Other (Details)=	
Aqueous:	
☐ No Anomalies	
☐ Turbid/Color=	
☐ Particulates(%)=(Note: >5%=Notify Supervisor/Lead)	
☐ Emulsions (%)=	
☐ Oily, obvious fuel/sulfur odors=	
☐ Other (Details)=	
☐ Received in 1.0L Bottle(s)=No Bottle Rinse=	
☒ Other Notes/Comments= (Note problems, concerns, corrective actions).	
Sample 23C0174-02 turned an amber color after addition of H_2O during acid cleaning process. Will have to use 22 DP Scoops of Acid Silica-gel during Silica-florisil cleaning process.	D.S 3/23/23
☐ Share Samples Y / N	
☐ Multiple Jars Y / N	
☐ Sample Pre-Screens indicate analyte activity=	
☐ Sample weights/volumes reduced based on Pre-Screen=	

Injection Date : 3/14/2023 12:06:10 PM Seq. Line : 3
Sample Name : CS4 Location : Vial 13
Acq. Operator : NL Inj : 1
Inj Volume : 1 µl

Sequence File : C:\HPCHEM\2\SEQUENCE\031423A.S
Method : C:\HPCHEM\2\METHODS\DIOXIN.M
Last changed : 2/13/2023 8:23:37 AM by ZH



Area Percent Report

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000

Signal 1: ECD1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
1	5.214	BP S	0.0000	5.49364e4	1583.40137	9.58299
2	5.604	PV S	0.0471	7.62619e4	1.96199e4	13.30294
3	5.709	VB S	0.2237	3.81491e5	2.84278e4	66.54644
4	6.070	BV T	0.0255	7690.04492	3665.06323	1.34143
5	6.085	PV T	0.0389	1.29602e4	3967.91699	2.26076
6	6.194	PV T	3.73e-3	18.28196	63.98528	0.00319
7	6.224	PV T	0.0121	391.26096	411.93863	0.06825
8	6.251	PV T	0.0182	764.08917	551.51709	0.13329
9	6.256	PV T	0.0148	477.40433	538.92969	0.08328
10	6.282	PV T	0.0167	655.57550	499.27142	0.11436
11	6.307	PV T	0.0113	386.36880	411.79239	0.06740
12	6.327	PV T	0.0133	404.48489	384.51236	0.07056
13	6.344	PB T	9.00e-3	141.54907	201.50600	0.02469
14	6.432	BB T	2.82e-3	6.11985	36.10930	0.00107
15	6.873	PV	0.0470	1.11135e4	2779.42871	1.93861
16	6.882	VV	0.0110	2437.28516	2782.53418	0.42515
17	6.902	VV	0.0633	1.47581e4	2745.13745	2.57437

Data File C:\HPCHEM\2\DATA\031423A\013B0301.D Sample Name: CS4

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
18	7.008	VB	0.0625	8352.40723	1580.34497	1.45697
19	7.342	BP	0.0000	3.18111	8.16322	0.00055
20	7.562	PB	3.26e-3	1.99219	8.72389	0.00035
21	7.726	BP	0.0152	16.85583	13.49780	0.00294
22	7.778	BP	4.51e-3	2.39355	7.13862	0.00042
Totals :				5.73271e5	7.02886e4	

Results obtained with enhanced integrator!

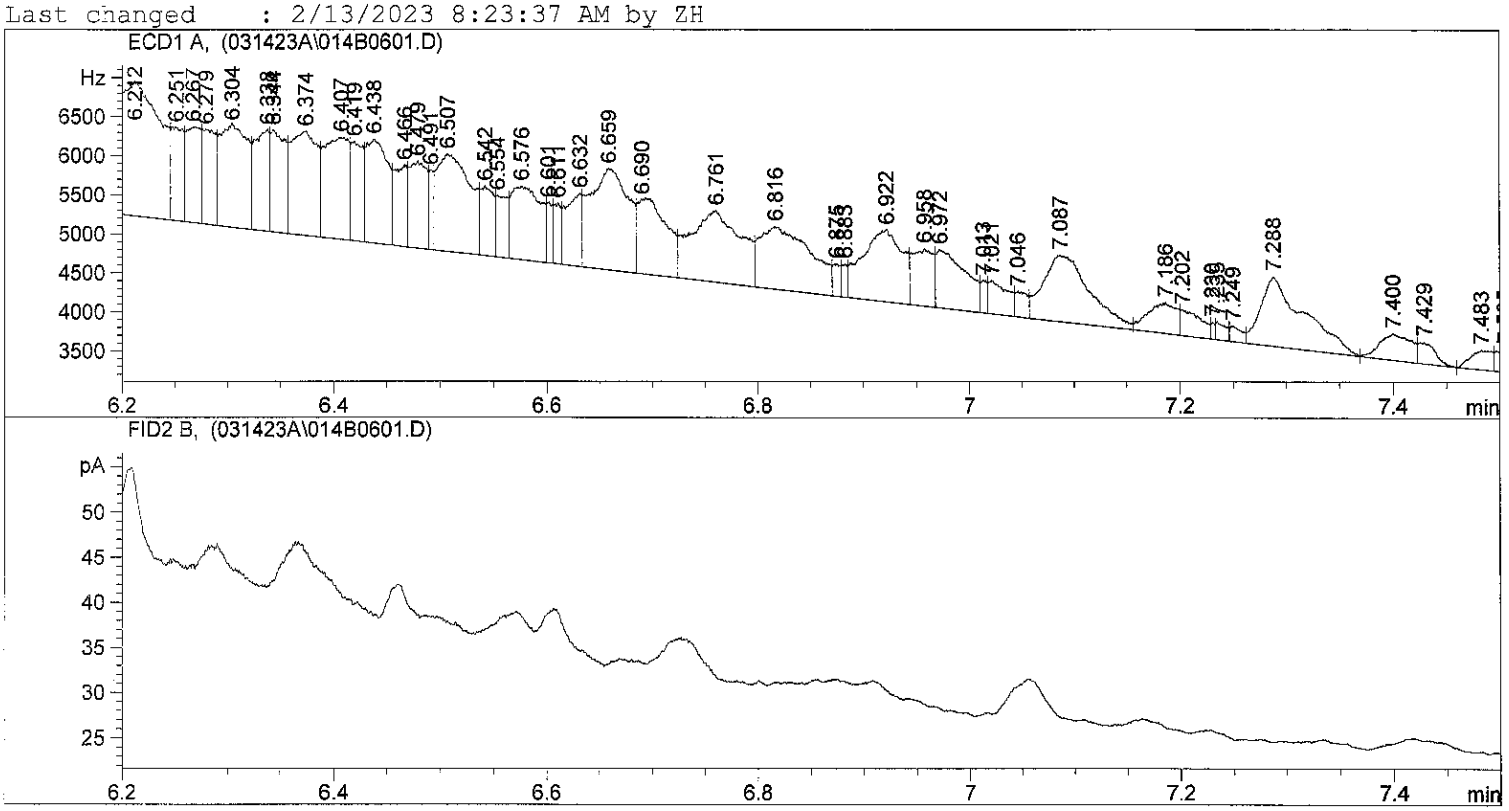
Signal 2: FID2 B,

==========

*** End of Report ***

Injection Date : 3/14/2023 12:39:26 PM Seq. Line : 6
Sample Name : 23C0174-01A Location : Vial 14
Acq. Operator : NL Inj : 1
Inj Volume : 1 µl

Sequence File : C:\HPCHEM\2\SEQUENCE\031423A.S
Method : C:\HPCHEM\2\METHODS\DIOXIN.M
Last changed : 2/13/2023 8:23:37 AM by ZH



Area Percent Report

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000

Signal 1: ECD1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
1	5.244	BV	8.48e-3	135.31116	211.09483	0.11063
2	5.262	VV	8.81e-3	351.29694	487.60226	0.28722
3	5.274	VV	7.53e-3	431.99356	727.02704	0.35320
4	5.283	VV	0.0166	1131.84375	847.63342	0.92540
5	5.339	VV	0.0247	1835.47180	901.67120	1.50070
6	5.361	VV	8.38e-3	525.89319	809.40564	0.42997
7	5.375	VV	0.0209	1748.14197	1027.37842	1.42929
8	5.405	VV	8.11e-3	377.72321	638.04828	0.30883
9	5.415	VV	0.0194	1070.36047	678.38184	0.87514
10	5.444	VV	0.0102	481.56622	587.95819	0.39373
11	5.479	VV	0.0210	3348.48926	2120.86548	2.73775
12	5.503	VV	2.91e-3	154.89325	781.66595	0.12664
13	5.517	VV	0.0202	1466.35449	898.32190	1.19890
14	5.549	VV	0.0143	915.93530	826.44928	0.74888
15	5.558	VV	9.52e-3	643.84100	823.22870	0.52641
16	5.590	VV	0.0226	2051.45093	1088.10315	1.67728
17	5.608	VV	7.27e-3	524.10101	917.00653	0.42851

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
18	5.624	VV	6.90e-3	486.44345	872.57928	0.39772
19	5.638	VV	0.0104	808.72406	1020.95233	0.66122
20	5.651	VV	0.0115	1037.00342	1093.49634	0.84786
21	5.662	VV	0.0147	1368.18481	1116.39709	1.11864
22	5.702	VV	0.0282	4200.98975	1799.87878	3.43476
23	5.736	VV	7.82e-3	770.53107	1245.31653	0.62999
24	5.741	VV	3.28e-3	279.76520	1218.25537	0.22874
25	5.762	VV	0.0226	2612.08496	1387.50525	2.13566
26	5.779	VV	8.52e-3	839.04999	1235.71777	0.68601
27	5.793	VV	7.29e-3	647.05554	1180.41821	0.52904
28	5.813	VV	0.0163	1799.13171	1338.07141	1.47098
29	5.825	VV	6.39e-3	614.47101	1330.03674	0.50240
30	5.832	VV	4.39e-3	437.62659	1348.56519	0.35781
31	5.839	VV	0.0129	1408.84302	1357.73279	1.15188
32	5.873	VV	0.0240	3070.80933	1517.28223	2.51072
33	5.899	VV	8.92e-3	999.93042	1511.52844	0.81755
34	5.904	VV	0.0177	2204.98950	1539.49268	1.80282
35	5.929	VV	4.85e-3	472.04633	1360.98474	0.38595
36	5.941	VV	0.0101	1118.04114	1401.86414	0.91412
37	5.955	VV	0.0144	1780.33276	1483.28442	1.45561
38	5.970	VV	3.83e-3	398.17273	1436.65039	0.32555
39	5.975	VV	5.05e-3	497.48712	1433.32471	0.40675
40	5.985	VV	0.0117	1320.64624	1502.57214	1.07977
41	6.001	VV	9.86e-3	1148.46680	1512.68567	0.93900
42	6.013	VV	0.0115	1451.84717	1553.76721	1.18704
43	6.025	VV	3.98e-3	440.91113	1522.62415	0.36049
44	6.033	VV	8.13e-3	1003.62390	1596.31482	0.82057
45	6.045	VV	6.35e-3	757.26404	1592.97546	0.61915
46	6.051	VV	5.78e-3	676.45947	1584.14978	0.55308
47	6.061	VV	0.0186	2548.51416	1691.00427	2.08369
48	6.088	VV	8.87e-3	1005.43512	1490.96826	0.82205
49	6.094	VV	0.0101	1183.62781	1452.91833	0.96774
50	6.109	VV	4.57e-3	480.24130	1410.82935	0.39265
51	6.121	VV	0.0104	1101.95142	1429.61047	0.90096
52	6.127	VV	6.06e-3	622.30695	1435.51050	0.50880
53	6.137	VV	0.0131	1560.85815	1566.74573	1.27617
54	6.152	VV	6.60e-3	795.04718	1495.93799	0.65004
55	6.164	VV	0.0131	1475.60266	1501.09338	1.20646
56	6.189	VV	0.0130	1536.18005	1522.99731	1.25599
57	6.212	VV	0.0321	4719.25635	1735.30530	3.85850
58	6.251	VV	9.74e-3	915.09381	1193.96533	0.74819
59	6.267	VV	0.0116	1157.85657	1223.81860	0.94667
60	6.279	VV	0.0150	1088.80713	1213.23926	0.89022
61	6.304	VV	0.0216	2362.76416	1327.58057	1.93181
62	6.338	VV	0.0121	1278.51135	1295.99548	1.04532
63	6.344	VV	0.0121	1284.34534	1301.12390	1.05009
64	6.374	VV	0.0209	2253.34961	1331.78857	1.84236
65	6.407	VV	0.0187	2059.63452	1310.62866	1.68397
66	6.419	VV	9.51e-3	926.75696	1270.92700	0.75772
67	6.438	VV	0.0177	1929.64368	1330.55005	1.57769
68	6.466	VV	0.0102	855.19067	1038.61584	0.69921
69	6.479	VV	0.0136	1234.41577	1111.16028	1.00927
70	6.491	VV	4.07e-3	301.55066	1014.21069	0.24655
71	6.507	VV	0.0260	2670.68237	1245.62231	2.18357
72	6.542	VV	0.0107	768.46405	887.08063	0.62830
73	6.554	VV	9.45e-3	582.49078	786.02045	0.47625
74	6.576	VV	0.0228	1775.14392	941.82764	1.45137
75	6.601	VV	5.31e-3	296.18500	766.33215	0.24216
76	6.611	VV	6.13e-3	366.53192	773.71301	0.29968
77	6.632	VV	0.0130	978.07391	933.89996	0.79968
78	6.659	VV	0.0301	3229.69165	1293.62439	2.64062
79	6.690	VV	0.0242	1879.92249	944.92230	1.53704
80	6.761	VV	0.0385	2979.16406	917.02484	2.43579
81	6.816	VV	0.0411	2714.47412	797.16437	2.21938
82	6.875	VV	6.26e-3	200.61087	413.43076	0.16402

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
83	6.883	VV	4.80e-3	152.24152	423.19946	0.12447
84	6.922	VV	0.0311	2390.22119	921.81635	1.95426
85	6.958	VV	0.0165	1007.12854	737.31580	0.82344
86	6.972	VV	0.0235	1459.07739	743.50696	1.19295
87	7.013	VV	5.09e-3	165.89395	412.37143	0.13564
88	7.021	VV	0.0164	557.68848	423.41428	0.45597
89	7.046	VV	0.0102	260.94666	322.16061	0.21335
90	7.087	VV	0.0365	2621.35986	852.56281	2.14324
91	7.186	VV	0.0232	737.15216	390.62408	0.60270
92	7.202	VV	0.0163	444.20804	330.16312	0.36319
93	7.230	VV	3.40e-3	52.50219	218.89160	0.04293
94	7.235	VV	8.34e-3	154.55579	232.96695	0.12637
95	7.249	VV	0.0101	155.97606	199.08194	0.12753
96	7.288	VV	0.0342	2539.27100	887.01160	2.07613
97	7.400	VV	0.0245	679.61578	334.61154	0.55566
98	7.429	VP	0.0139	296.16617	276.24579	0.24215
99	7.483	VV	0.0167	349.04788	250.43810	0.28538
100	7.505	VV	0.0219	529.55371	292.70618	0.43297
101	7.563	VV	0.0122	76.39994	76.74584	0.06247
102	7.583	VV	5.73e-3	22.85288	51.96148	0.01868
103	7.625	VV	0.0383	1883.27917	601.14893	1.53978
104	7.723	VP	0.0342	741.79626	263.48630	0.60650
105	7.771	VV	8.07e-3	22.66486	36.38871	0.01853
106	7.783	VBA	0.0106	44.45074	55.32373	0.03634
Totals :				1.22308e5	1.07198e5	

Results obtained with enhanced integrator!

Signal 2: FID2 B,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Height [pA]	Area %
1	5.286	PB	0.0170	23.44128	21.04000	45.84949
2	5.521	PP	0.0185	27.68530	22.91244	54.15051
Totals :				51.12658	43.95243	

Results obtained with enhanced integrator!

*** End of Report ***

```
Injection Date  : 3/14/2023 12:50:28 PM          Seq. Line :   7
Sample Name     : 23C0174-02C                    Location : Vial 15
Acq. Operator   : NL                                Inj :   1
                                                 Inj Volume : 1 µl
Sequence File   : C:\HPCHEM\2\SEQUENCE\031423A.S
Method          : C:\HPCHEM\2\METHODS\DIOXIN.M
Last changed    : 2/13/2023 8:23:37 AM by ZH
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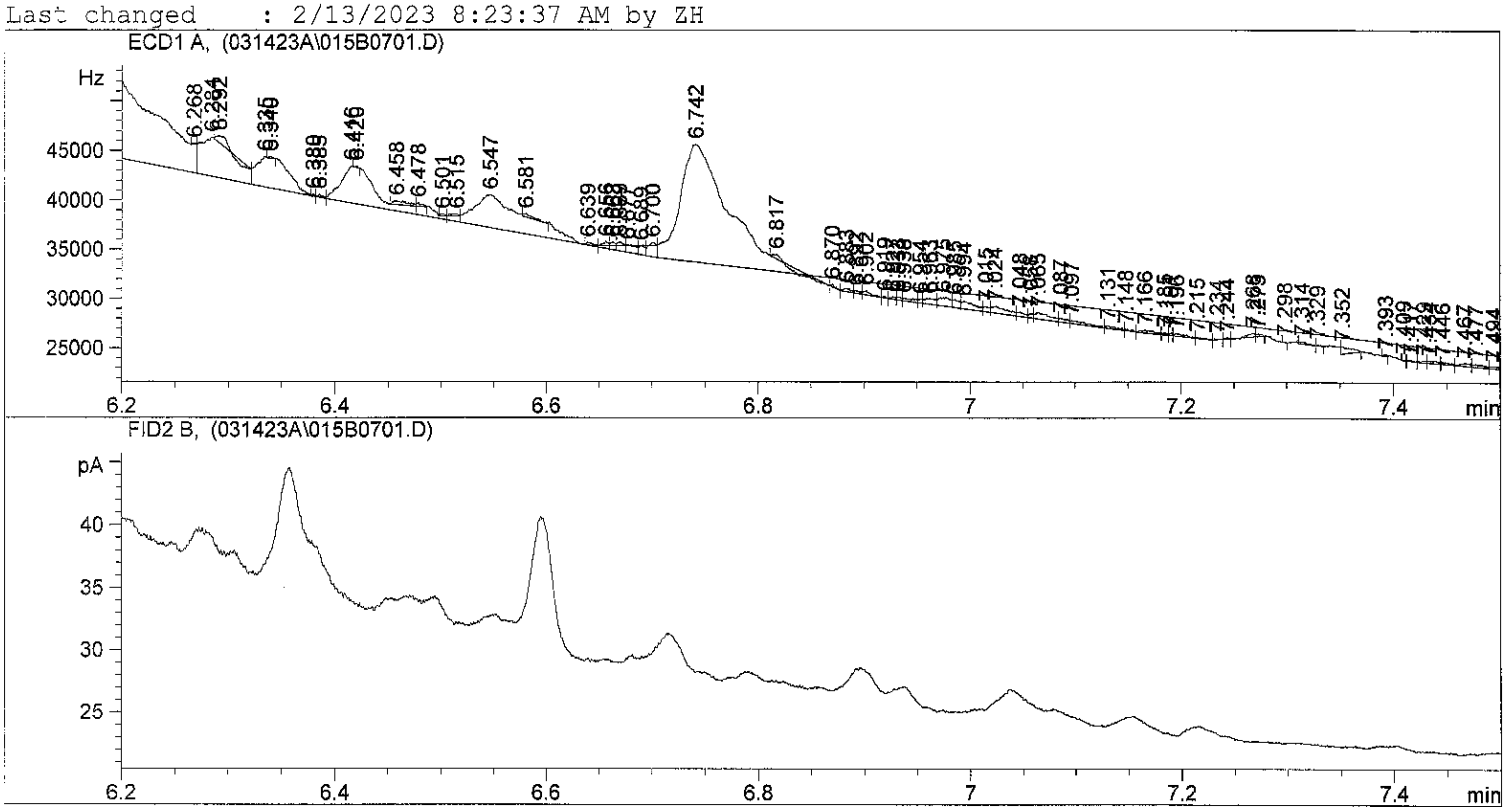

Area Percent Report

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Sorted By             :      Signal
Multiplier            :      1.0000
Dilution              :      1.0000
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Signal 1: ECD1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
1	5.210	BP S	0.0120	1.88592e4	3.07288e4	0.40574
2	5.294	PV S	0.0480	3.14437e6	7.80204e5	67.64869
3	5.370	VV S	0.0262	7.43420e4	4.72405e4	1.59941
4	5.436	PV S	0.0414	9.54301e4	3.83889e4	2.05311
5	5.475	PV S	0.0301	8.76682e4	4.85433e4	1.88612
6	5.505	BV T	0.0103	2004.40234	3232.46094	0.04312
7	5.551	PV S	0.0268	7.80515e4	3.70241e4	1.67922
8	5.579	PV S	0.0211	3.32875e4	2.63362e4	0.71616
9	5.612	PV S	0.0303	4.92333e4	2.71032e4	1.05922
10	5.680	PV S	0.0484	4.17296e5	1.43579e5	8.97781
11	5.721	BB T	3.93e-3	266.39487	1129.46631	0.00573
12	5.808	PV S	0.0322	4.76177e4	2.46100e4	1.02446
13	5.849	PV S	0.0650	8.41276e4	1.82417e4	1.80994
14	5.969	PV S	0.0577	6.79752e4	1.96466e4	1.46244
15	5.983	BV T	0.0114	1091.57788	1596.02576	0.02348
16	6.031	PV S	0.0381	3.17980e5	1.10058e5	6.84109
17	6.154	BB T	6.04e-3	239.23401	513.46576	0.00515

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
18	6.183	BV T	1.66e-3	16.48153	165.10216	0.00035
19	6.193	PV S	0.0377	2.75169e4	8852.03613	0.59201
20	6.268	BV T	3.39e-3	23.10141	113.65953	0.00050
21	6.284	PV S	0.0277	9077.17676	3933.24121	0.19529
22	6.292	BV T	4.29e-3	200.83432	711.91309	0.00432
23	6.335	PV S	0.0252	6428.98535	3079.19141	0.13831
24	6.340	BB T	5.10e-3	44.41954	145.19913	0.00096
25	6.380	PV T	2.86e-3	36.86940	214.67462	0.00079
26	6.385	PV T	3.97e-3	71.57452	247.72218	0.00154
27	6.416	PV S	0.0325	1.01627e4	3790.67627	0.21864
28	6.420	BB T	2.66e-3	28.93526	181.61993	0.00062
29	6.458	BV T	0.0120	365.38943	388.22000	0.00786
30	6.478	PB T	5.57e-3	120.55499	360.51617	0.00259
31	6.501	BV T	4.25e-3	47.85350	187.48595	0.00103
32	6.515	PV T	6.85e-3	114.64233	213.85208	0.00247
33	6.547	PV S	0.0488	1.38797e4	3358.40454	0.29861
34	6.581	BB T	9.67e-3	201.18901	346.77182	0.00433
35	6.639	PV T	6.84e-3	110.70034	269.72830	0.00238
36	6.656	PV T	4.12e-3	126.94320	397.78485	0.00273
37	6.663	PV T	5.63e-3	111.95870	331.42242	0.00241
38	6.669	PV T	5.35e-3	110.49285	344.21487	0.00238
39	6.677	PV T	0.0000	33.21470	96.83375	0.00071
40	6.689	PV T	0.0225	59.70358	32.09608	0.00128
41	6.700	PV T	2.74e-3	54.61771	297.88608	0.00118
42	6.742	PBAS	0.0487	4.79909e4	1.21957e4	1.03249
43	6.817	BV T	0.0000	402.41776	467.13052	0.00866
44	6.870	PP T	3.46e-3	55.06101	265.11090	0.00118
45	6.883	PV T	6.87e-3	154.84917	307.54575	0.00333
46	6.892	PV T	7.09e-3	103.22834	242.71996	0.00222
47	6.902	PP T	5.42e-3	179.44876	434.75775	0.00386
48	6.919	PP T	2.52e-3	25.86490	157.04364	0.00056
49	6.927	PV T	4.03e-3	72.07640	231.82178	0.00155
50	6.933	PV T	5.28e-3	90.88766	286.71432	0.00196
51	6.938	PV T	0.0135	217.61160	269.51294	0.00468
52	6.954	PV T	4.13e-3	97.53401	393.48639	0.00210
53	6.963	PV T	8.99e-3	405.52795	550.77271	0.00872
54	6.975	PV T	0.0109	659.20868	831.17297	0.01418
55	6.985	PV T	7.76e-3	349.17459	750.14197	0.00751
56	6.994	PV T	0.0155	699.04114	752.52533	0.01504
57	7.015	PV T	6.56e-3	192.78549	489.54620	0.00415
58	7.024	PV T	0.0133	717.60571	667.61060	0.01544
59	7.048	PV T	6.08e-3	210.73000	448.30670	0.00453
60	7.058	PV T	5.15e-3	121.17101	391.98807	0.00261
61	7.065	PV T	0.0126	650.93781	645.19812	0.01400
62	7.087	PV T	8.35e-3	193.96429	387.25668	0.00417
63	7.097	PV T	0.0212	363.48627	285.18106	0.00782
64	7.131	PV T	7.82e-3	164.09573	265.05338	0.00353
65	7.148	PP T	6.37e-3	58.90048	154.09196	0.00127
66	7.166	PV T	0.0111	251.86664	281.19077	0.00542
67	7.185	PV T	5.68e-3	64.32018	188.58620	0.00138
68	7.191	PV T	2.95e-3	43.25245	244.08601	0.00093
69	7.196	PV T	8.53e-3	179.69214	257.94055	0.00387
70	7.215	PV T	7.53e-3	59.62972	131.92191	0.00128
71	7.234	PV T	3.93e-3	22.75162	79.73156	0.00049
72	7.244	PV T	2.44e-3	17.18720	117.54468	0.00037
73	7.268	PV T	5.88e-3	162.40701	372.83557	0.00349
74	7.273	PB T	5.18e-3	85.35989	274.55505	0.00184
75	7.298	BB T	3.14e-3	15.96844	84.82069	0.00034
76	7.314	BV T	8.92e-3	109.00119	203.76682	0.00235
77	7.329	PB T	4.32e-3	29.30255	113.16210	0.00063
78	7.352	BB T	0.0113	502.05725	737.96423	0.01080
79	7.393	BB T	3.91e-3	29.76520	126.83228	0.00064
80	7.409	BP T	2.33e-3	14.96584	106.91496	0.00032
81	7.417	PV T	4.68e-3	42.79285	122.27912	0.00092
82	7.429	PV T	5.38e-3	66.34129	205.62740	0.00143

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
83	7.434	PV T	0.0115	147.26259	213.00368	0.00317
84	7.446	PV T	9.42e-3	118.16376	209.04221	0.00254
85	7.467	PV T	7.85e-3	181.27022	283.89264	0.00390
86	7.477	PV T	8.32e-3	220.69246	325.12073	0.00475
87	7.494	PV T	8.51e-3	116.33546	227.83223	0.00250
88	7.504	PV T	6.46e-3	63.62885	164.26941	0.00137
89	7.513	PV T	4.66e-3	63.80362	183.53885	0.00137
90	7.520	PV T	3.67e-3	71.67519	272.57602	0.00154
91	7.525	PV T	6.20e-3	120.95075	325.24683	0.00260
92	7.531	PV T	3.19e-3	75.40353	393.78967	0.00162
93	7.535	PV T	4.01e-3	99.07394	412.13751	0.00213
94	7.540	PV T	8.47e-3	213.01344	419.03806	0.00458
95	7.554	PP T	6.94e-3	92.33861	221.63550	0.00199
96	7.573	BV T	4.62e-3	41.47713	114.66892	0.00089
97	7.582	PV T	2.54e-3	17.67402	115.77402	0.00038
98	7.586	PV T	0.0125	116.40535	155.47432	0.00250
99	7.605	PV T	3.67e-3	45.71692	162.98576	0.00098
100	7.614	PV T	0.0109	307.15131	340.69983	0.00661
101	7.630	PV T	4.95e-3	117.53846	396.14264	0.00253
102	7.637	PV T	6.32e-3	214.51811	437.60248	0.00462
103	7.647	PP T	0.0267	460.88068	287.18719	0.00992
104	7.713	PV T	9.64e-3	199.22612	262.78503	0.00429
105	7.725	PV T	6.48e-3	69.71228	133.84291	0.00150
106	7.739	PP T	6.42e-3	41.00283	106.40665	0.00088
107	7.751	PP T	0.0135	163.59959	152.18378	0.00352
108	7.780	PV T	4.84e-3	38.62769	117.29207	0.00083
109	7.786	PP T	1.70e-3	10.14987	99.25829	0.00022
Totals :				4.64808e6	1.41829e6	

Results obtained with enhanced integrator!

Signal 2: FID2 B,

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Height [pA]	Area %
1	5.338	BB	0.0184	502.77087	407.06705	1.000e2
Totals :				502.77087	407.06705	

Results obtained with enhanced integrator!

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*** End of Report ***

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Injection Date  : 3/14/2023 1:01:12 PM          Seq. Line :   8
Sample Name     : 23C0174-03C pA                 Location : Vial 16
Acq. Operator   : NL  M 3/15/23                      Inj :   1
                                               Inj Volume : 1 µl

Sequence File   : C:\HPCHEM\2\SEQUENCE\031423A.S
Method          : C:\HPCHEM\2\METHODS\DIOXIN.M
Last changed    : 2/13/2023 8:23:37 AM by ZH
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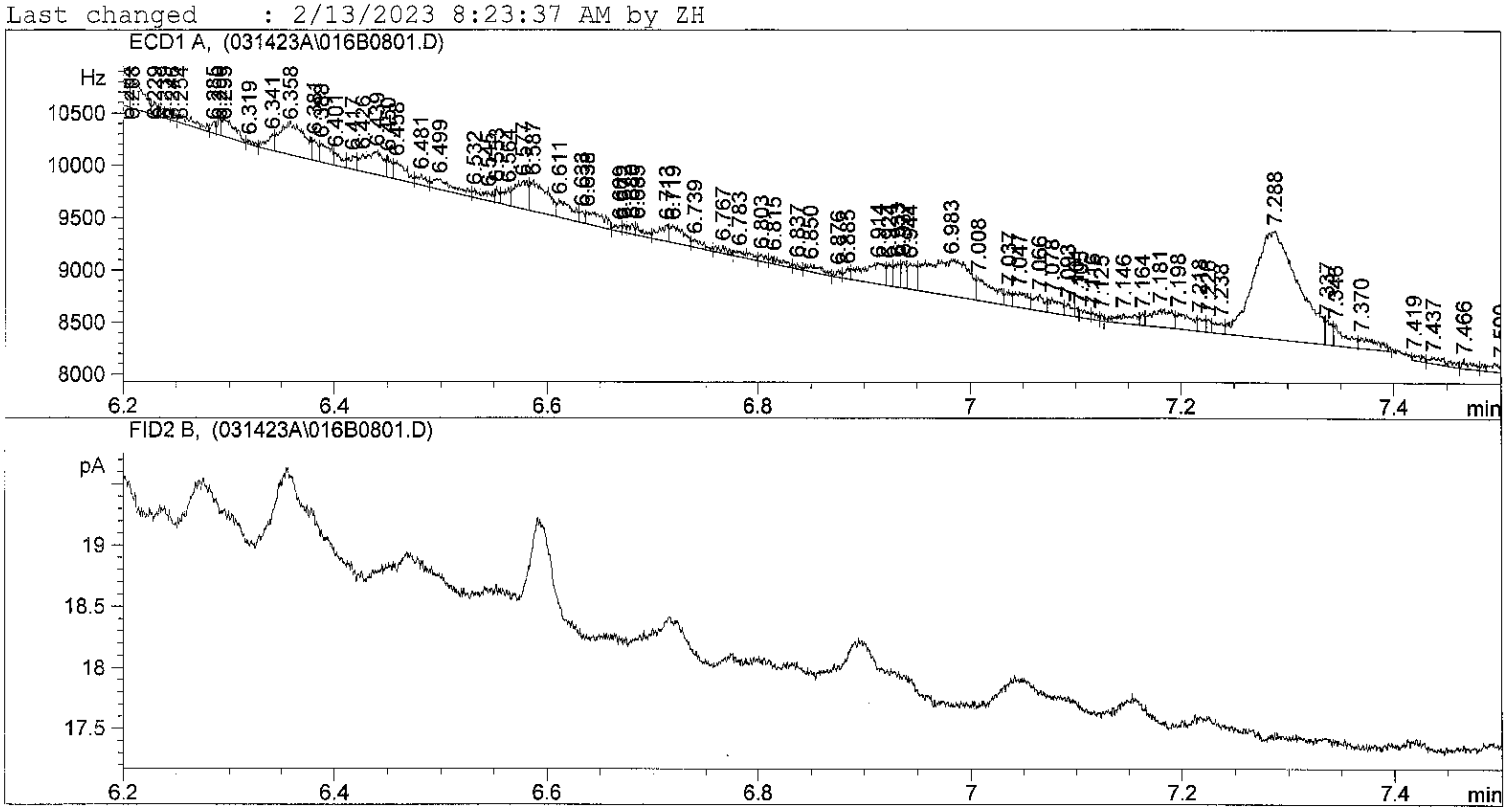

Area Percent Report

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Sorted By             :      Signal
Multiplier            :      1.0000
Dilution              :      1.0000
```

Signal 1: ECD1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
1	5.220	BP	2.72e-3	7.50117	45.48747	0.00405
2	5.253	VV S	0.0189	3524.84692	2729.77173	1.90454
3	5.323	VV S	0.0495	1.47254e5	4.95474e4	79.56434
4	5.476	VV S	0.0611	1.36806e4	3734.65356	7.39188
5	5.564	VB S	0.0120	144.54468	200.61966	0.07810
6	5.588	BV	0.0135	387.09427	380.09509	0.20915
7	5.608	VV	2.92e-3	27.30764	137.55699	0.01475
8	5.617	VP	4.26e-3	14.75872	57.73705	0.00797
9	5.631	VP	4.13e-3	11.58018	38.27291	0.00626
10	5.641	VV	4.73e-3	26.55761	74.95476	0.01435
11	5.664	VV	0.0114	311.75555	336.09622	0.16845
12	5.695	VV	0.0160	789.12366	621.65631	0.42638
13	5.704	VV	0.0139	652.74548	573.00299	0.35269
14	5.739	VV	0.0141	304.79709	266.45685	0.16469
15	5.766	VV	9.66e-3	230.90973	318.52209	0.12477
16	5.775	VV	4.67e-3	85.70340	258.18469	0.04631
17	5.787	VV	0.0116	292.32657	305.02341	0.15795

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
18	5.805	VV	5.45e-3	111.81231	280.83014	0.06041
19	5.819	VV	8.22e-3	219.29353	335.87680	0.11849
20	5.825	VV	0.0128	481.05414	458.97723	0.25992
21	5.842	VV	7.92e-3	235.93092	386.62891	0.12748
22	5.859	VV	6.32e-3	129.05302	272.96283	0.06973
23	5.870	VV	0.0165	547.07147	397.12869	0.29559
24	5.908	VV	0.0258	1073.82788	510.27020	0.58021
25	5.944	VV	0.0106	242.58447	283.73560	0.13107
26	5.958	VV	5.73e-3	122.40913	278.56256	0.06614
27	5.969	VV	5.32e-3	124.18842	294.37451	0.06710
28	5.977	VV	4.19e-3	69.34807	238.58525	0.03747
29	5.983	VV	5.07e-3	103.45338	311.53967	0.05590
30	5.987	VV	7.98e-3	205.59601	316.42883	0.11109
31	6.000	VV	0.0113	244.91130	272.36188	0.13233
32	6.044	VV	0.0256	1054.30469	504.65726	0.56966
33	6.088	VV	9.00e-3	76.06187	108.28308	0.04110
34	6.101	VV	3.36e-3	19.33818	95.62691	0.01045
35	6.111	VV	4.38e-3	46.04485	150.15933	0.02488
36	6.120	VV	9.79e-3	172.47856	218.94055	0.09319
37	6.132	VV	7.58e-3	95.38588	168.99580	0.05154
38	6.147	VV	4.99e-3	43.46783	110.52180	0.02349
39	6.160	VV	7.24e-3	74.38153	130.66673	0.04019
40	6.168	VV	7.94e-3	71.32341	123.41399	0.03854
41	6.204	VV	0.0125	216.31296	223.63963	0.11688
42	6.208	VV	0.0103	229.93333	269.75443	0.12424
43	6.229	VV	4.56e-3	39.86382	123.56844	0.02154
44	6.239	VV	8.04e-3	49.71091	103.03411	0.02686
45	6.246	VV	4.79e-3	21.26930	73.98262	0.01149
46	6.254	VV	0.0131	86.68439	79.90886	0.04684
47	6.285	VV	4.04e-3	29.65246	106.62563	0.01602
48	6.290	VV	2.94e-3	35.73951	178.17195	0.01931
49	6.295	VV	0.0110	142.77982	163.51515	0.07715
50	6.319	VP	5.63e-3	15.49973	39.06751	0.00837
51	6.341	VV	6.31e-3	76.45755	150.98190	0.04131
52	6.358	VV	0.0193	494.35132	319.44028	0.26711
53	6.381	VV	4.86e-3	72.45621	198.64922	0.03915
54	6.388	VV	8.39e-3	123.97485	181.10654	0.06699
55	6.401	VV	6.32e-3	59.10606	120.45298	0.03194
56	6.417	VV	6.01e-3	60.57201	130.68077	0.03273
57	6.426	VV	5.46e-3	66.32854	159.33737	0.03584
58	6.439	VV	0.0121	207.75435	218.98721	0.11225
59	6.450	VV	3.91e-3	59.77384	198.64180	0.03230
60	6.458	VV	0.0128	131.64066	170.79456	0.07113
61	6.481	VV	7.13e-3	56.55396	98.00663	0.03056
62	6.499	VV	0.0177	141.95917	98.28416	0.07670
63	6.532	VV	5.53e-3	27.85579	68.71012	0.01505
64	6.545	VV	7.36e-3	47.91484	80.35039	0.02589
65	6.553	VV	3.13e-3	31.55859	145.28018	0.01705
66	6.564	VV	5.68e-3	72.45133	166.41698	0.03915
67	6.577	VV	0.0105	219.78709	259.05786	0.11876
68	6.587	VV	0.0148	335.33841	287.37112	0.18119
69	6.611	VV	0.0117	158.00035	166.33606	0.08537
70	6.633	VV	4.28e-3	31.41105	105.34776	0.01697
71	6.638	VP	0.0150	140.04869	113.12415	0.07567
72	6.669	VV	5.38e-3	23.78765	60.97904	0.01285
73	6.672	VV	2.66e-3	13.11046	74.20857	0.00708
74	6.680	VV	5.07e-3	34.81982	95.11685	0.01881
75	6.685	VV	5.75e-3	43.94090	99.56055	0.02374
76	6.713	VV	8.53e-3	98.19961	152.08350	0.05306
77	6.719	VV	0.0118	147.88507	165.21779	0.07991
78	6.739	VV	0.0121	54.26189	74.89694	0.02932
79	6.767	VV	7.42e-3	40.37026	69.07764	0.02181
80	6.783	VV	0.0181	59.08351	54.28070	0.03192
81	6.803	VV	5.94e-3	26.85837	66.13947	0.01451
82	6.815	VV	9.18e-3	52.14542	74.38702	0.02818

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
83	6.837	VV	4.40e-3	14.24070	55.40354	0.00769
84	6.850	VP	0.0121	66.64689	67.53774	0.03601
85	6.876	VV	4.53e-3	22.79992	67.61475	0.01232
86	6.885	VV	4.54e-3	32.07681	94.95094	0.01733
87	6.914	VV	0.0176	283.44009	196.60789	0.15315
88	6.924	VV	4.59e-3	68.78997	211.74248	0.03717
89	6.933	VV	6.29e-3	102.74564	235.72748	0.05552
90	6.937	VV	4.35e-3	73.55621	256.26645	0.03974
91	6.944	VV	7.42e-3	141.83034	242.45203	0.07663
92	6.983	VV	0.0320	933.44409	349.28455	0.50436
93	7.008	VV	0.0139	247.05063	217.49065	0.13349
94	7.037	VV	4.77e-3	55.06122	146.89413	0.02975
95	7.047	VV	0.0107	126.49091	143.94821	0.06835
96	7.066	VV	8.23e-3	100.53694	149.72464	0.05432
97	7.078	VV	9.48e-3	105.18003	138.20964	0.05683
98	7.093	VV	5.71e-3	49.74079	113.60343	0.02688
99	7.101	VV	2.87e-3	16.99061	87.25267	0.00918
100	7.105	VV	7.65e-3	40.99239	67.80315	0.02215
101	7.116	VV	4.91e-3	24.20976	65.56054	0.01308
102	7.125	VP	2.47e-3	9.64011	60.25138	0.00521
103	7.146	VV	0.0149	112.45973	91.53671	0.06076
104	7.164	VV	4.07e-3	29.05328	110.23150	0.01570
105	7.181	VV	0.0155	221.33356	170.54831	0.11959
106	7.198	VV	0.0119	152.16208	154.08763	0.08222
107	7.218	VV	5.90e-3	56.28023	128.78162	0.03041
108	7.226	VV	4.30e-3	34.62284	122.39722	0.01871
109	7.238	VV	0.0107	67.65055	105.44421	0.03655
110	7.288	VV	0.0345	3005.95483	1034.59021	1.62418
111	7.337	VV	5.66e-3	99.68207	230.01259	0.05386
112	7.346	VV	0.0128	155.52448	201.77965	0.08403
113	7.370	VB	0.0152	124.94906	104.06893	0.06751
114	7.419	BV	7.22e-3	31.14987	54.91954	0.01683
115	7.437	VP	0.0171	79.91936	58.07606	0.04318
116	7.466	VV	7.84e-3	49.44603	84.28999	0.02672
117	7.500	VV	0.0116	83.58579	88.44738	0.04516
118	7.510	VV	9.85e-3	34.41970	58.21581	0.01860
119	7.525	VV	5.51e-3	26.22462	78.17221	0.01417
120	7.532	VV	2.85e-3	17.72417	91.85520	0.00958
121	7.536	VV	9.60e-3	51.22491	66.37309	0.02768
122	7.553	VV	6.40e-3	56.87804	114.38615	0.03073
123	7.567	VV	5.82e-3	48.25573	107.89821	0.02607
124	7.571	VV	3.24e-3	22.28830	98.44412	0.01204
125	7.576	VV	0.0101	89.16341	107.78403	0.04818
126	7.596	VV	0.0139	130.91917	114.98901	0.07074
127	7.622	VV	8.60e-3	58.49639	85.34068	0.03161
128	7.644	VV	0.0101	36.07378	59.28864	0.01949
129	7.652	VV	3.38e-3	5.81866	24.41294	0.00314
130	7.663	VV	6.27e-3	22.57255	44.89606	0.01220
131	7.683	VV	3.07e-3	7.79349	42.31792	0.00421
132	7.687	VP	3.39e-3	8.15297	34.03513	0.00441
133	7.716	VV	0.0101	64.49178	77.81201	0.03485
134	7.724	VV	0.0114	80.85454	86.11740	0.04369
135	7.745	VP	7.30e-3	38.51700	67.11182	0.02081
136	7.768	VV	9.78e-3	18.82200	32.06019	0.01017
137	7.773	VV	2.65e-3	7.74747	44.15953	0.00419
138	7.785	VV	6.63e-3	27.75259	59.61993	0.01500
139	7.789	VP	4.38e-3	15.34813	47.42707	0.00829
Totals :				1.85076e5	7.89099e4	

Results obtained with enhanced integrator!

Signal 2: FID2 B,

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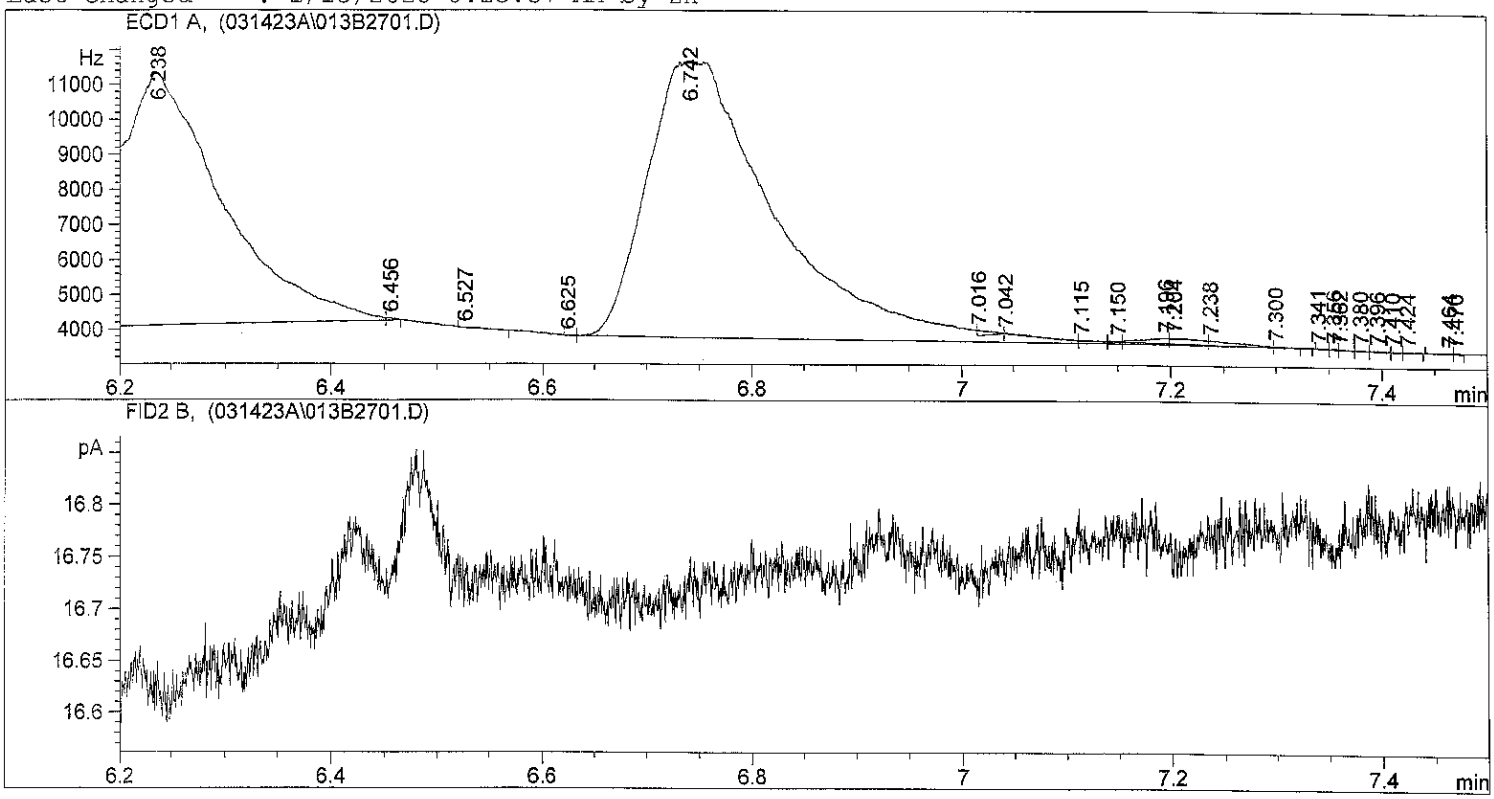
*** End of Report ***

Injection Date : 3/14/2023 4:36:42 PM Seq. Line : 27
Sample Name : CS4 Location : Vial 13
Acq. Operator : NL Inj : 1
Inj Volume : 1 µl

Sequence File : C:\HPCHEM\2\SEQUENCE\031423A.S
Method : C:\HPCHEM\2\METHODS\DIOXIN.M
Last changed : 2/13/2023 8:23:37 AM by ZH



Area Percent Report

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000

Signal 1: ECD1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
1	5.402	BV	2.71e-3	4.53720	25.12735	0.00061
2	5.423	VP	0.0154	248.11606	198.18135	0.03335
3	5.551	VV S	0.0395	1.42081e5	4.31049e4	19.09831
4	5.646	VV S	0.0628	2.14952e5	5.70206e4	28.89348
5	5.690	VV S	0.1024	1.74506e5	2.84042e4	23.45673
6	5.999	VV S	0.0759	6.51887e4	1.43130e4	8.76254
7	6.160	VV S	0.0657	3.15269e4	7998.34570	4.23778
8	6.238	VV S	0.1064	4.61822e4	7232.62451	6.20773
9	6.456	VB S	8.54e-3	40.26383	78.55704	0.00541
10	6.527	PP	0.0184	15.87062	10.68111	0.00213
11	6.625	PP	0.0000	7.17667e-1	12.04725	9.647e-5
12	6.742	BB S	0.1019	6.76390e4	7928.72559	9.09190
13	7.016	BV T	0.0143	130.88925	152.57645	0.01759
14	7.042	VV T	0.0117	15.43120	22.06179	0.00207
15	7.115	PV T	0.0165	15.00419	15.19139	0.00202
16	7.150	PV T	7.03e-3	19.14142	34.75630	0.00257
17	7.196	PV T	0.0202	246.82532	155.05956	0.03318

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
18	7.204	PV T	0.0332	315.98044	158.63301	0.04247
19	7.238	PV T	0.0353	276.47211	130.70572	0.03716
20	7.300	PB T	0.0135	26.53223	32.76727	0.00357
21	7.341	BV	4.51e-3	7.37082	22.01267	0.00099
22	7.356	VV	4.28e-3	8.17334	24.54904	0.00110
23	7.362	VP	7.56e-3	13.73525	23.70329	0.00185
24	7.380	VV	6.57e-3	11.52517	25.98500	0.00155
25	7.396	VP	7.01e-3	14.56911	26.53722	0.00196
26	7.410	VV	5.68e-3	7.74734	17.80936	0.00104
27	7.424	VB	9.49e-3	11.47684	15.41440	0.00154
28	7.464	BV	9.71e-3	20.11128	26.32747	0.00270
29	7.470	VP	3.73e-3	7.27897	25.50533	0.00098
30	7.518	BB	0.0144	37.16281	30.90429	0.00500
31	7.544	BP	0.0228	45.05086	32.93095	0.00606
32	7.580	VV	3.43e-3	4.77479	19.65738	0.00064
33	7.588	VP	3.30e-3	5.26734	22.78809	0.00071
34	7.600	VV	3.02e-3	3.69387	17.78522	0.00050
35	7.652	VV	0.0314	267.13672	101.70028	0.03591
36	7.701	VP	7.32e-3	12.31263	21.38651	0.00166
37	7.737	PP	6.79e-3	5.97875	12.47946	0.00080
38	7.753	VB	5.00e-3	10.74272	27.24611	0.00144
39	7.766	BV	2.80e-3	4.39354	23.30177	0.00059
40	7.772	VV	5.09e-3	8.95851	22.27821	0.00120
41	7.787	VV	2.72e-3	2.35750	14.28920	0.00032
42	7.795	VP	4.05e-3	5.65410	19.13639	0.00076
Totals :				7.43947e5	1.67602e5	

Results obtained with enhanced integrator!

Signal 2: FID2 B,

*** End of Report ***

TOTAL SOLIDS BENCHSHEET

Method HRSM01.2

(dry at 110 C)

Batch:	BLC0098
Date:	3/9/2023 5:07
Analyst:	NL
Drying Oven:	18
Analytical Balance:	24650344

Instrumentation

Batch drying time

Record times as mm/dd/yy hh:mm			Oven Temp, C	TS (%) calculated as:
Date/time in oven:	3/8/2023 12:55		111	Final dry wt (g) = (Dry Wt - Tare Wt)
Date/time out:	3/9/2023 5:07		111	TS = (Final Dry Wt X 100)/ (sample & dish -dish tare)
Elapsed hrs:	16.2			

Oven Temps, °C	
Start Temp:	111
End Temp:	111

SAMPLE ID	Dish Tare Wt (g)	Dish with Sample (g)	Dry Wt (g)	Solids Wt (g)	TS (%)	Sample Decanted
23C0071-02	0.7800	11.4900	6.2000	5.42	**50.61%**	Yes
23C0109-03	0.7900	11.7400	4.8500	4.06	**37.08%**	No

TOTAL SOLIDS BENCHSHEET	Batch:	BLC0098
Method HRSM01.2	Date:	
(dry at 110 C)	Analyst:	M
Instrumentation	Drying Oven:	Φ18
	Analytical Balance:	2465Φ344

Batch drying time			Oven Temp, C	TS (%) calculated as:	Oven Temps, °C	
Record times as mm/dd/yy hh:mm						
Date/time in oven:	3/8/23	1255	111°C	Final dry wt (g) = (Dry Wt - Tare Wt)	Start Temp:	111 °C
Date/time out:	3/9/23	Φ5Φ7	111 °C	TS = (Final Dry Wt X 100)/ (sample & dish -dish tare)	End Temp:	111 c
Elapsed hrs:	0.0					

SAMPLE ID	Dish Tare Wt (g)	Dish with Sample (g)	Dry Wt (g)	Solids Wt (g)	TS (%)	Sample Decanted
23C0071-02	Φ.79	11.49	6.2Φ			~~No~~ Yes
23C0109-03	Φ.79	11.74	4.85			No

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Laboratory
Analyst Notes

Extraction Parameter: Dioxin

Extraction Batch: ~~BLC0097~~ BLC0379 M 3/15/23

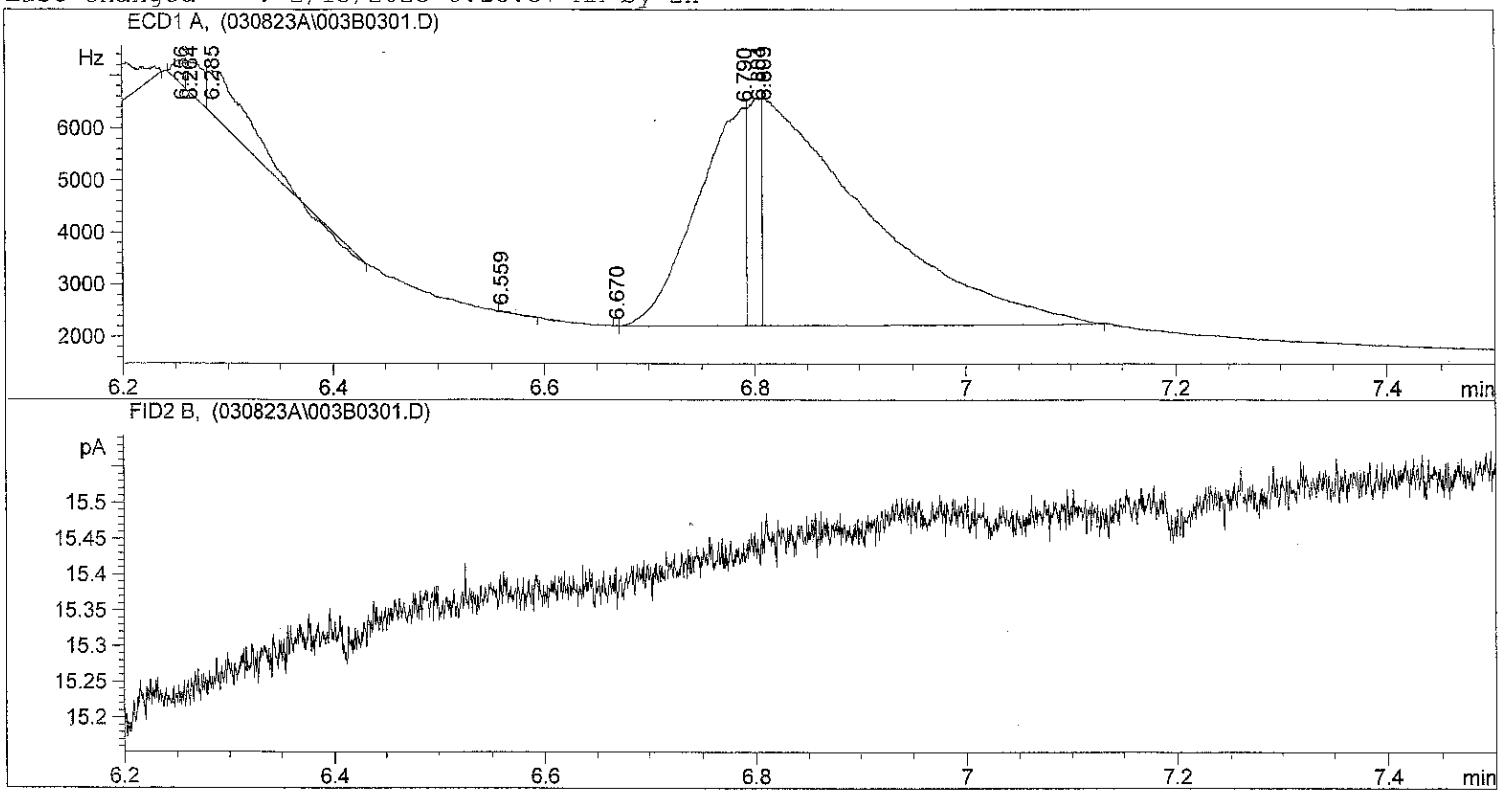
Total Solids Batch: BLC0098

Work Order(s): 23C0071, 23C0109

Screens: Soil/Sediment/Solid/Other:	Analyst/Date
☐ No Anomalies (standard soil/wet sediment/sand/gravel)=	
☒ Standing Water Decanted (Not shared)= 23C0071. 02C	M 3/8/23
☐ Standing Water Homogenized (Shared samples)=	
☐ Clay/Clumps (Difficult to homogenize)=	
☐ Rocks (%+size)?	
☐ Organics (Leaves/sticks/grass)=	
☐ Oily, obvious fuel/sulfur odors=	
☐ Received in 32oz jar(s)=Homogenized in Pyrex dish=	
☒ Previously Frozen = 23C0109.03 : had water, NO decant	M 3/9/23
☐ Other (Details)=	
Aqueous:	
☐ No Anomalies	
☐ Turbid/Color=	
☐ Particulates(%)=(Note: >5%=Notify Supervisor/Lead)	
☐ Emulsions (%)=	
☐ Oily, obvious fuel/sulfur odors=	
☐ Other (Details)=	
☐ Received in 1.0L Bottle(s)=No Bottle Rinse=	
☐ Other Notes/Comments= (Note problems, concerns, corrective actions).	
☐ Share Samples Y / N	
☐ Multiple Jars Y / N	
☐ Sample Pre-Screens indicate analyte activity=	
☐ Sample weights/volumes reduced based on Pre-Screen=	

Injection Date : 3/8/2023 2:25:48 PM Seq. Line : 3
Sample Name : CS4 Location : Vial 3
Acq. Operator : NL Inj : 1
Inj Volume : 1 µl

Sequence File : C:\HPCHEM\2\SEQUENCE\030823A.S
Method : C:\HPCHEM\2\METHODS\DIOXIN.M
Last changed : 2/13/2023 8:23:37 AM by ZH



Area Percent Report

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000

Signal 1: ECD1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
1	5.569	BV S	0.0453	1.07433e5	2.82652e4	21.18272
2	5.657	VV S	0.0967	3.12229e5	3.91724e4	61.56252
3	6.028	VP S	0.0835	3.30322e4	6589.87744	6.51299
4	6.190	VB S	0.0491	3520.30273	1096.12463	0.69410
5	6.256	BV	9.67e-3	319.73190	462.22281	0.06304
6	6.264	VV	0.0157	733.88074	591.26141	0.14470
7	6.285	VP	0.0342	2381.63477	823.25708	0.46959
8	6.559	BB	1.89e-3	1.83387	16.54164	0.00036
9	6.670	PP	2.03e-3	1.34183	10.91438	0.00026
10	6.790	VV	0.0383	1.31891e4	4175.09229	2.60050
11	6.804	VV	0.0124	3883.56909	4376.55029	0.76573
12	6.809	VB	0.0819	3.03815e4	4351.60596	5.99036
13	7.509	BP	3.45e-3	2.77125	11.34186	0.00055
14	7.662	BB	0.0222	61.49093	33.23800	0.01212
15	7.763	PB	1.52e-3	6.25042e-1	7.91456	0.00012
16	7.777	BP	3.08e-3	1.68404	9.42767	0.00033

Totals : 5.07174e5 8.99929e4

Results obtained with enhanced integrator!

Signal 2: FID2 B,

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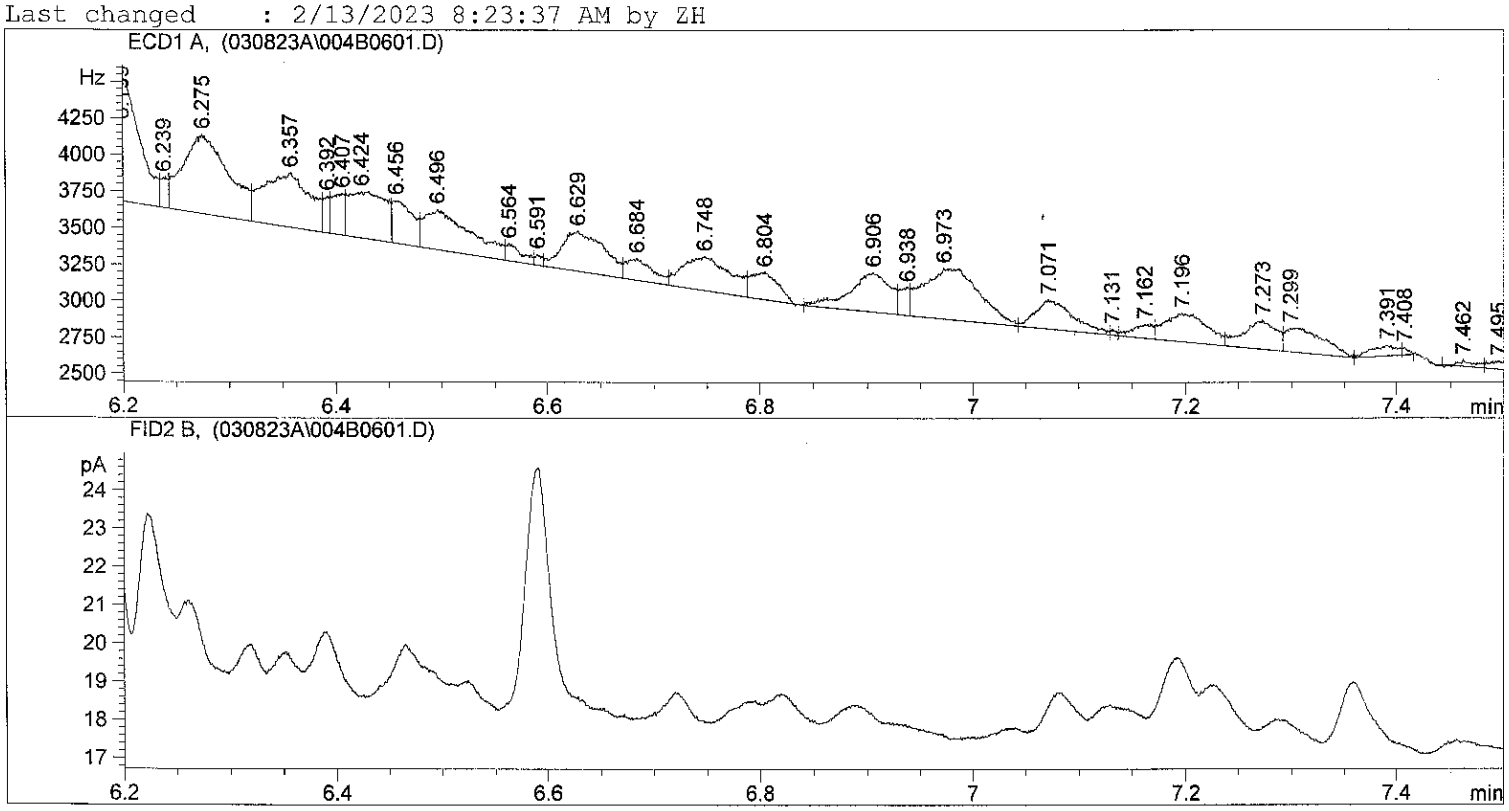
*** End of Report ***

Injection Date : 3/8/2023 2:59:03 PM Seq. Line : 6
Sample Name : 23C0071-02 Location : Vial 4
Acq. Operator : NL Inj : 1
Inj Volume : 1 µl

Sequence File : C:\HPCHEM\2\SEQUENCE\030823A.S
Method : C:\HPCHEM\2\METHODS\DIOXIN.M
Last changed : 2/13/2023 8:23:37 AM by ZH



Area Percent Report

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000

Signal 1: ECD1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
1	5.230	BV	0.0136	590.76941	583.37061	1.43551
2	5.267	VP	0.0150	232.36008	193.45720	0.56461
3	5.289	VB	4.75e-3	10.67875	29.99917	0.02595
4	5.301	BV	5.53e-3	13.83955	32.78109	0.03363
5	5.307	VP	0.0103	42.17324	68.22475	0.10248
6	5.340	VV	0.0105	84.47059	99.58762	0.20525
7	5.371	VV	0.0179	457.80542	316.45322	1.11242
8	5.402	VV	0.0172	470.39029	327.21140	1.14300
9	5.442	VV	0.0192	894.74304	554.09827	2.17413
10	5.474	VV	0.0197	1496.79736	925.28516	3.63706
11	5.510	VV	0.0212	1415.79199	803.07458	3.44023
12	5.596	VV	0.0211	689.30975	399.22910	1.67495
13	5.607	VV	0.0107	262.21744	408.52002	0.63716
14	5.621	VV	0.0105	306.45020	392.64807	0.74464
15	5.631	VV	4.79e-3	112.64177	346.89413	0.27371
16	5.650	VV	0.0127	434.31116	425.88058	1.05533
17	5.658	VV	0.0107	343.57190	414.08972	0.83484

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
18	5.689	VV	0.0223	1909.25867	1043.42749	4.63930
19	5.710	VV	3.84e-3	167.68600	728.32104	0.40746
20	5.714	VV	7.26e-3	418.64441	732.85046	1.01726
21	5.731	VV	9.60e-3	588.67468	780.15955	1.43042
22	5.749	VV	0.0205	1437.01953	834.15686	3.49181
23	5.784	VV	0.0169	925.12115	663.81207	2.24795
24	5.811	VV	0.0235	1478.04785	753.60638	3.59150
25	5.864	VV	0.0313	3094.46313	1222.43567	7.51922
26	5.930	VV	0.0298	1982.93750	809.89801	4.81833
27	5.970	VV	0.0129	563.01520	535.60834	1.36807
28	6.039	VV	0.0477	4207.55811	1041.87793	10.22393
29	6.118	VV	0.0268	1064.41248	485.42163	2.58641
30	6.155	VV	0.0176	711.70203	488.19388	1.72936
31	6.199	VV	0.0312	2170.97754	850.91687	5.27525
32	6.239	VV	6.29e-3	100.66525	206.53131	0.24461
33	6.275	VV	0.0353	1614.80310	539.41418	3.92380
34	6.357	VV	0.0356	1098.79272	370.31665	2.66995
35	6.392	VV	4.86e-3	95.50275	249.92184	0.23206
36	6.407	VV	0.0107	233.98132	284.52301	0.56855
37	6.424	VV	0.0289	760.94659	313.95105	1.84902
38	6.456	VV	0.0172	392.08151	289.32181	0.95272
39	6.496	VV	0.0365	838.29474	272.60794	2.03697
40	6.564	VV	0.0128	121.43579	114.41853	0.29508
41	6.591	VV	6.01e-3	33.69253	72.63834	0.08187
42	6.629	VV	0.0337	763.74976	270.73907	1.85583
43	6.684	VV	0.0210	255.06187	147.28284	0.61977
44	6.748	VV	0.0371	716.08240	231.14709	1.74001
45	6.804	VP	0.0217	330.91284	185.10123	0.80408
46	6.906	VV	0.0329	712.21686	270.99506	1.73061
47	6.938	VV	8.10e-3	119.90234	191.62630	0.29135
48	6.973	VV	0.0436	1289.10437	348.12845	3.13239
49	7.071	VV	0.0304	496.64853	201.20744	1.20680
50	7.131	VV	4.52e-3	13.59890	40.50686	0.03304
51	7.162	VV	0.0162	124.97763	92.39365	0.30368
52	7.196	VV	0.0333	539.28973	192.28218	1.31042
53	7.273	VV	0.0252	415.99533	197.23289	1.01083
54	7.299	VP	0.0305	421.92004	163.71037	1.02522
55	7.391	VV	0.0210	128.94897	74.42352	0.31333
56	7.408	VB	5.03e-3	19.87122	52.36409	0.04829
57	7.462	PV	0.0111	38.73128	43.04371	0.09411
58	7.495	VB	0.0185	83.38814	55.09549	0.20262
59	7.609	PV	0.0420	720.39551	204.23244	1.75049
60	7.681	VV	3.28e-3	10.44647	45.40578	0.02538
61	7.690	VV	0.0109	51.92353	58.61155	0.12617
62	7.707	VB	7.66e-3	26.74164	44.21574	0.06498
63	7.751	PP	3.72e-3	6.07587	22.68828	0.01476
Totals :				4.11540e4	2.31376e4	

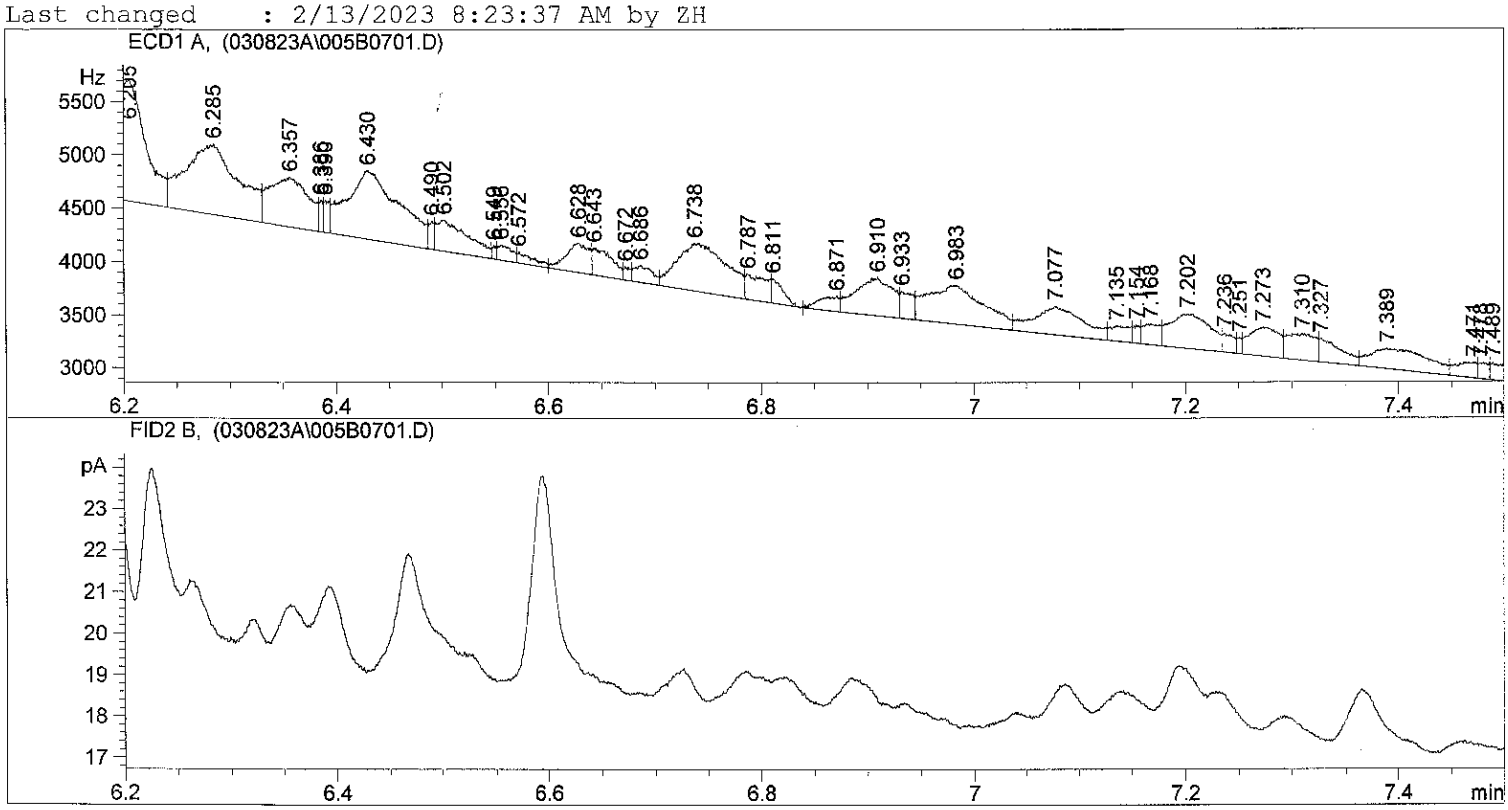
Results obtained with enhanced integrator!

Signal 2: FID2 B,

*** End of Report ***

Injection Date : 3/8/2023 3:10:17 PM Seq. Line : 7
Sample Name : 23C0109-03 Location : Vial 5
Acq. Operator : NL Inj : 1
Inj Volume : 1 µl

Sequence File : C:\HPCHEM\2\SEQUENCE\030823A.S
Method : C:\HPCHEM\2\METHODS\DIOXIN.M
Last changed : 2/13/2023 8:23:37 AM by ZH



Area Percent Report

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000

Signal 1: ECD1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
1	5.228	BV	0.0150	869.53583	856.09216	1.62484
2	5.250	VV	6.76e-3	90.20357	189.21994	0.16856
3	5.267	VV	0.0134	362.73019	329.84357	0.67781
4	5.310	VP	0.0106	88.12709	104.61779	0.16468
5	5.338	VV	9.01e-3	92.44880	134.68872	0.17275
6	5.372	VV	0.0166	665.38818	496.41046	1.24336
7	5.404	VV	0.0148	520.48737	428.84579	0.97260
8	5.416	VV	4.22e-3	100.56081	323.74255	0.18791
9	5.421	VV	5.47e-3	145.63760	363.48987	0.27214
10	5.442	VV	0.0177	937.66962	686.85626	1.75216
11	5.472	VV	0.0192	1734.28113	1090.26660	3.24073
12	5.509	VP	0.0239	1783.60791	950.09021	3.33290
13	5.602	VV	0.0269	1424.57190	647.84930	2.66199
14	5.619	VV	0.0124	586.95911	581.08594	1.09681
15	5.653	VV	0.0184	927.96869	620.50378	1.73403
16	5.668	VV	5.47e-3	215.83397	563.20654	0.40331
17	5.691	VV	0.0254	2685.52808	1265.30786	5.01825

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
18	5.719	VV	8.42e-3	510.85251	824.96802	0.95459
19	5.751	VV	0.0228	2334.03467	1224.78918	4.36144
20	5.789	VV	0.0173	966.24823	668.76532	1.80556
21	5.814	VV	0.0253	1529.71802	751.99261	2.85847
22	5.838	VV	3.88e-3	138.65593	525.08966	0.25910
23	5.866	VV	0.0302	3543.61011	1398.27063	6.62169
24	5.934	VV	0.0245	1896.12036	943.05267	3.54314
25	5.957	VV	7.58e-3	436.77463	729.76703	0.81617
26	5.970	VV	5.21e-3	204.61757	654.69910	0.38235
27	5.974	VV	6.84e-3	347.04880	670.03864	0.64851
28	5.983	VV	5.84e-3	306.04480	681.92499	0.57188
29	6.005	VV	0.0185	1226.48535	791.37720	2.29184
30	6.037	VV	0.0352	3435.43066	1179.20276	6.41954
31	6.096	VV	7.02e-3	221.41660	402.42191	0.41375
32	6.121	VV	0.0246	1039.18201	517.82318	1.94184
33	6.168	VV	0.0188	784.90680	496.69919	1.46670
34	6.205	VV	0.0284	2704.75269	1143.66541	5.05418
35	6.285	VV	0.0416	2275.60889	659.65430	4.25227
36	6.357	VV	0.0325	1185.35583	466.35315	2.21499
37	6.386	VV	3.35e-3	69.38071	294.87302	0.12965
38	6.390	VV	4.79e-3	111.91611	297.34409	0.20913
39	6.430	VV	0.0408	2202.33203	639.03876	4.11534
40	6.490	VV	4.87e-3	96.24266	262.94272	0.17984
41	6.502	VV	0.0260	614.55896	291.74738	1.14838
42	6.549	VV	3.48e-3	32.67639	123.92849	0.06106
43	6.556	VV	0.0114	130.01561	140.10593	0.24295
44	6.572	VV	0.0131	109.43619	102.45862	0.20450
45	6.628	VV	0.0194	401.95242	272.09335	0.75110
46	6.643	VV	0.0216	327.36600	252.88168	0.61173
47	6.672	VV	5.57e-3	51.78649	121.68033	0.09677
48	6.686	VV	0.0156	193.13861	154.62756	0.36090
49	6.738	VV	0.0398	1469.52136	444.25241	2.74599
50	6.787	VV	0.0168	317.48981	235.04054	0.59327
51	6.811	VP	0.0125	171.47704	228.81903	0.32043
52	6.871	VV	0.0155	183.79591	143.80086	0.34345
53	6.910	VV	0.0286	856.65332	358.94659	1.60077
54	6.933	VV	0.0102	205.97411	256.58887	0.38489
55	6.983	VV	0.0430	1335.87427	365.42090	2.49625
56	7.077	VV	0.0384	866.47443	267.31760	1.61912
57	7.135	VV	0.0163	192.90211	143.15361	0.36046
58	7.154	VV	5.51e-3	74.52885	169.99103	0.13927
59	7.168	VV	0.0150	218.81213	193.34039	0.40888
60	7.202	VV	0.0309	842.58502	324.04086	1.57448
61	7.236	VV	0.0123	133.06769	179.80864	0.24865
62	7.251	VV	4.61e-3	51.80455	150.79787	0.09680
63	7.273	VV	0.0230	530.00848	274.20099	0.99039
64	7.310	VV	0.0214	448.60580	251.82141	0.83828
65	7.327	VV	0.0177	327.34732	223.07529	0.61169
66	7.389	VV	0.0456	761.50366	197.61670	1.42297
67	7.471	VV	0.0165	199.91742	146.89915	0.37357
68	7.478	VV	7.92e-3	96.52878	149.73970	0.18038
69	7.489	VB	0.0195	188.96967	161.31317	0.35311
70	7.515	BP	0.0247	331.40039	168.66591	0.61926
71	7.621	VV	0.0385	722.62689	222.17012	1.35032
72	7.666	VB	0.0213	114.38592	89.59958	0.21374
73	7.696	BV	0.0219	143.41730	77.68069	0.26799
74	7.727	VP	9.39e-3	34.45426	46.79237	0.06438
75	7.772	PP	0.0146	35.86742	30.73812	0.06702
Totals :				5.35152e4	3.28180e4	

Results obtained with enhanced integrator!

Signal 2: FID2 B,

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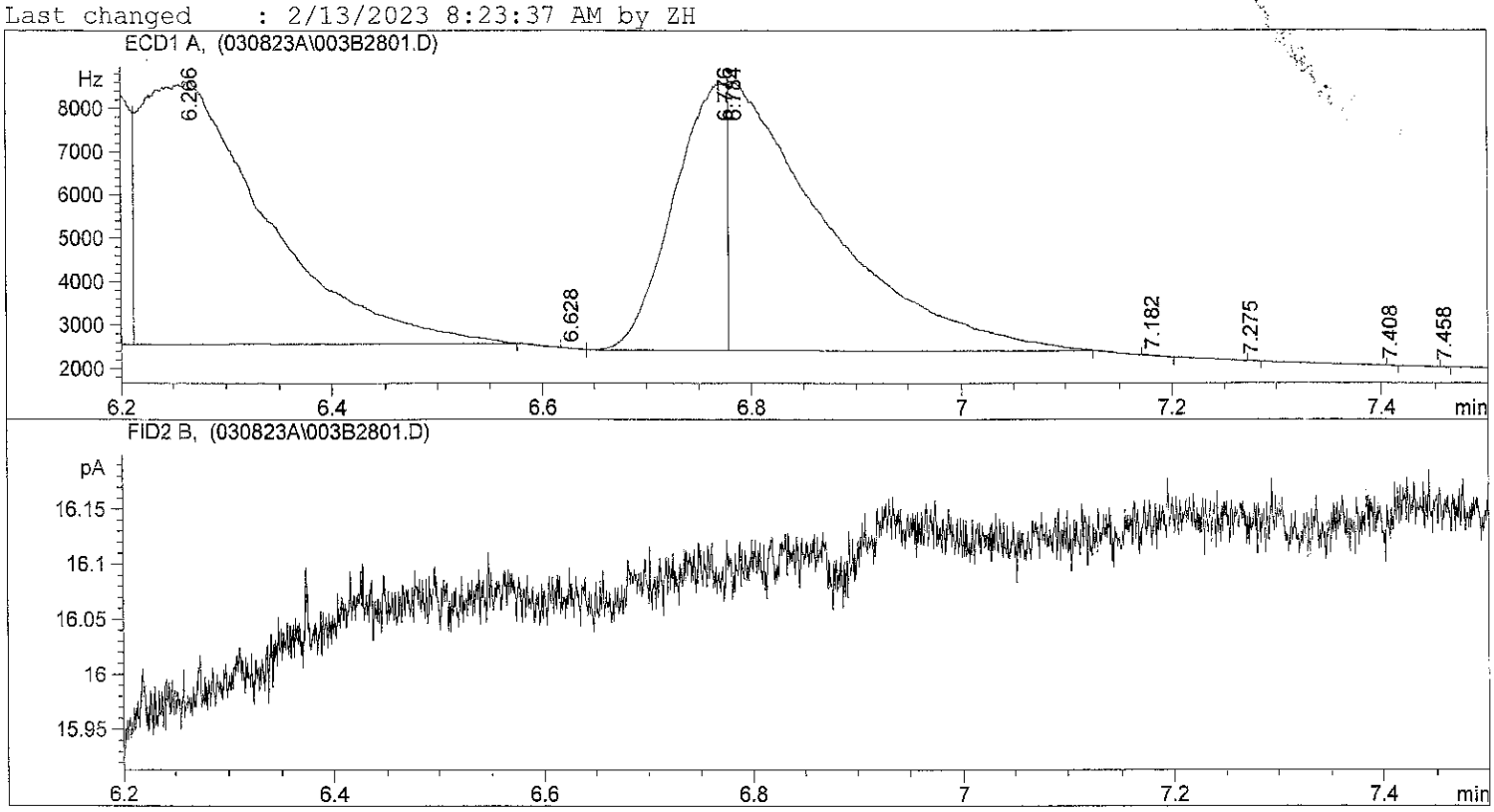
*** End of Report ***

Injection Date : 3/8/2023 7:07:01 PM Seq. Line : 28
Sample Name : CS4 Location : Vial 3
Acq. Operator : NL Inj : 1
Inj Volume : 1 µl

Sequence File : C:\HPCHEM\2\SEQUENCE\030823A.S
Method : C:\HPCHEM\2\METHODS\DIOXIN.M
Last changed : 2/13/2023 8:23:37 AM by ZH



Area Percent Report

Sorted By : Signal
Multiplier : 1.0000
Dilution : 1.0000

Signal 1: ECD1 A,

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
1	5.427	BP	6.06e-3	48.19931	131.97749	0.00685
2	5.564	VV S	0.0440	1.24708e5	3.38237e4	17.71172
3	5.659	VV S	0.1353	3.73967e5	4.60522e4	53.11300
4	6.008	VV S	0.0940	6.42170e4	1.13901e4	9.12046
5	6.178	VV S	0.0782	2.92867e4	6242.62500	4.15946
6	6.266	VB S	0.1384	5.02266e4	6049.24170	7.13347
7	6.628	BP	0.0129	7.19143	6.71433	0.00102
8	6.776	VV	0.0409	2.12391e4	6155.86621	3.01650
9	6.784	VB	0.0763	4.02534e4	6207.53418	5.71703
10	7.182	PP	6.97e-3	6.56058	12.02144	0.00093
11	7.275	PB	0.0000	4.84538e-1	8.45821	6.882e-5
12	7.408	BP	2.47e-3	2.72140	15.31680	0.00039
13	7.458	PB	3.82e-3	3.61904	15.78006	0.00051
14	7.543	PB	2.03e-3	1.47737	10.54609	0.00021
15	7.584	BP	4.32e-3	2.38763	7.90712	0.00034
16	7.603	BP	3.88e-3	1.69931	6.43143	0.00024
17	7.646	BV	0.0263	88.44695	43.20825	0.01256

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
18	7.677	VB	8.85e-3	22.10143	32.86252	0.00314
19	7.701	BV	6.17e-3	8.25233	17.29067	0.00117
20	7.708	VB	5.04e-3	6.51899	17.12311	0.00093

Totals : 7.04098e5 1.16247e5

Results obtained with enhanced integrator!

Signal 2: FID2 B,

*** End of Report ***

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Dioxin Extraction Laboratory – Glassware

Batch ID: BLCØ379 Work Order: 23CØØ71, 23CØ1Ø9, 23Cø174 Extraction Parameter: Dioxin ARI Analyst DP

ARI Sample ID	300 mL Flat Bottom	Small Soxhlet	Large Soxhlet	250 mL Beaker	Funnel	Column	Florisil Column	Turbo Tube	Sep Funnel	Erlenmeyer Flask	Centrifuge Bottle	Turbo-Vap	Vortex Mixer	Heating Mantle
BLCØ379 - BLK1	79	4		37	88	33	24	31				4	4	A1
- BS1	24	24		32	9	145	150	85				4	4	A2
- DUP1	34		25	10	59	48	163	50				4	4	A3
- SRM1	16	14		259	42	75	4	20				4	4	A5
23CØØ71 - Ø2A	18		31	41	61	12	139	25				4	4	A6
23CØ1Ø9 - Ø3A	29		28	138	70	45	16	11				4	4	B1
23CØ174 - Ø1A	4	9		46	89	30	21	55				4	4	B2
- Ø2A	40	41		23	72	229	3	74				4	4	B3
- Ø3A	6	94		4	19	46	168	65				4	4	B4
												4	4	
												4	4	
												4	4	
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												4	4	
												4	4	

CLEANUP BATCH SUMMARY

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Cleanup Batch:	CLC0212	Cleanup Type:	Sulfuric Acid
Cleanup Method:	EPA 3665 Sulfuric Acid Cleanup - uL	Analysis:	EPA 1613B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Reference	BLC0379-SRM1	23042425	03/23/2023	
LCS	BLC0379-BS1	23042424	03/23/2023	
Duplicate	BLC0379-DUP1	23042426	03/23/2023	
Blank	BLC0379-BLK1	23042423	03/23/2023	
LDW23-SS1037	23C0071-02	23042427	03/23/2023	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BENCH SHEET

CLC0212

Matrix: Solid **Cleanup using: HRGCMS - EPA 3665 Sulfuric Acid Cleanup - uL** **Printed: 3/24/2023 1:20:45PM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
23C0071-02	A	LDW23-SS1037	A 06	20	20	8290 Dioxin	3/23/2023	DxP	
23C0071-02	A	LDW23-SS1037	A 06	20	20	1613B Dioxin	3/23/2023	DxP	
23C0109-03	A	LDW23-SS1105	A 06	20	20	1613B Dioxin	3/23/2023	DxP	
23C0174-01	A	LDW23-DB01 - <2mm	A 01	20	20	8290 Dioxin	3/23/2023	DxP	
23C0174-02	A	LDW23-DB02 - <2mm	A 01	20	20	8290 Dioxin	3/23/2023	DxP	
23C0174-03	A	LDW23-DB03 - <2mm	A 01	20	20	8290 Dioxin	3/23/2023	DxP	
BLC0379-BLK1	-	Blank	-	20	20	-	3/23/2023	DxP	
BLC0379-BS1	-	LCS	-	20	20	-	3/23/2023	DxP	
BLC0379-DUP1	-	Duplicate	-	20	20	-	3/23/2023	DxP	
BLC0379-SRM1	-	Reference	-	20	20	-	3/23/2023	DxP	

CLEANUP BATCH SUMMARY

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Cleanup Batch:	CLC0213	Cleanup Type:	Silica Gel
Cleanup Method:	EPA 3630C Silica Gel Cleanup - uL	Analysis:	EPA 1613B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW23-SS1037	23C0071-02	23042427	03/23/2023	
Reference	BLC0379-SRM1	23042425	03/23/2023	
LCS	BLC0379-BS1	23042424	03/23/2023	
Duplicate	BLC0379-DUP1	23042426	03/23/2023	
Blank	BLC0379-BLK1	23042423	03/23/2023	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BENCH SHEET

CLC0213

Matrix: Solid **Cleanup using: HRGCMS - EPA 3630C Silica Gel Cleanup - uL** **Printed: 3/24/2023 1:21:04PM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
23C0071-02	A	LDW23-SS1037	A 06	20	20	8290 Dioxin	3/23/2023	DxP	
23C0071-02	A	LDW23-SS1037	A 06	20	20	1613B Dioxin	3/23/2023	DxP	
23C0109-03	A	LDW23-SS1105	A 06	20	20	1613B Dioxin	3/23/2023	DxP	
23C0174-01	A	LDW23-DB01 - <2mm	A 01	20	20	8290 Dioxin	3/23/2023	DxP	
23C0174-02	A	LDW23-DB02 - <2mm	A 01	20	20	8290 Dioxin	3/23/2023	DxP	
23C0174-03	A	LDW23-DB03 - <2mm	A 01	20	20	8290 Dioxin	3/23/2023	DxP	
BLC0379-BLK1	-	Blank	-	20	20	-	3/23/2023	DxP	
BLC0379-BS1	-	LCS	-	20	20	-	3/23/2023	DxP	
BLC0379-DUP1	-	Duplicate	-	20	20	-	3/23/2023	DxP	
BLC0379-SRM1	-	Reference	-	20	20	-	3/23/2023	DxP	

CLEANUP BATCH SUMMARY

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Cleanup Batch:	CLC0214	Cleanup Type:	Florisil
Cleanup Method:	EPA 3620B Florisil Cleanup (uL)	Analysis:	EPA 1613B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LCS	BLC0379-BS1	23042424	03/23/2023	
Duplicate	BLC0379-DUP1	23042426	03/23/2023	
Blank	BLC0379-BLK1	23042423	03/23/2023	
LDW23-SS1037	23C0071-02	23042427	03/23/2023	
Reference	BLC0379-SRM1	23042425	03/23/2023	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BENCH SHEET

CLC0214

Matrix: Solid **Cleanup using: HRGCMS - EPA 3620B Florisil Cleanup (uL)** **Check Standard: CKK0015-FLO1** **Printed: 3/24/2023 1:21:22PM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
23C0071-02	A	LDW23-SS1037	A 06	20	20	8290 Dioxin	3/23/2023	DxP	
23C0071-02	A	LDW23-SS1037	A 06	20	20	1613B Dioxin	3/23/2023	DxP	
23C0109-03	A	LDW23-SS1105	A 06	20	20	1613B Dioxin	3/23/2023	DxP	
23C0174-01	A	LDW23-DB01 - <2mm	A 01	20	20	8290 Dioxin	3/23/2023	DxP	
23C0174-02	A	LDW23-DB02 - <2mm	A 01	20	20	8290 Dioxin	3/23/2023	DxP	
23C0174-03	A	LDW23-DB03 - <2mm	A 01	20	20	8290 Dioxin	3/23/2023	DxP	
BLC0379-BLK1	-	Blank	-	20	20	-	3/23/2023	DxP	
BLC0379-BS1	-	LCS	-	20	20	-	3/23/2023	DxP	
BLC0379-DUP1	-	Duplicate	-	20	20	-	3/23/2023	DxP	
BLC0379-SRM1	-	Reference	-	20	20	-	3/23/2023	DxP	

Analytical Resources, LLC
Analytical Chemists and Consultants

Blank

Form 1
METHOD BLANK DATA SHEET
EPA 1613B
Dioxins/Furans by HRGC/HRMS

Laboratory:	Analytical Resources, LLC			SDG:	23C0071
Client:	Anchor QEA, LLC			Project:	AOC5 MR Phase 1
Matrix:	Solid	Laboratory ID:	BLC0379-BLK1	File ID:	23042423
Sampled:	N/A	Prepared:	03/15/23 06:39	Analyzed:	04/25/23 08:36
Solids Wt%:		Preparation:	EPA 8290	Initial/Final:	10.01 g / 20 uL
Result Basis:	Dry	Sequence:	SLD0330	Calibration:	GC00015
Batch:	BLC0379	Instrument:	AUTOSPEC01	Column:	RTX-Dioxin2

CAS NO.	COMPOUND	DF/Split	Ion Ratio	Ratio Limits	EDL	RL	Result	Units	Q
51207-31-9	2,3,7,8-TCDF	1	0.000	0.655-0.886	0.215	0.999	ND	ng/kg	U
1746-01-6	2,3,7,8-TCDD	1	0.000	0.655-0.886	0.164	0.999	ND	ng/kg	U
57117-41-6	1,2,3,7,8-PeCDF	1	0.000	1.318-1.783	0.203	0.999	ND	ng/kg	U
57117-31-4	2,3,4,7,8-PeCDF	1	0.000	1.318-1.783	0.192	0.999	ND	ng/kg	U
40321-76-4	1,2,3,7,8-PeCDD	1	1.944	1.318-1.783	0.237	0.999	0.183	ng/kg	EMPC, J
70648-26-9	1,2,3,4,7,8-HxCDF	1	0.000	1.054-1.426	0.141	0.999	ND	ng/kg	U
57117-44-9	1,2,3,6,7,8-HxCDF	1	0.000	1.054-1.426	0.142	0.999	ND	ng/kg	U
60851-34-5	2,3,4,6,7,8-HxCDF	1	0.000	1.054-1.426	0.156	0.999	ND	ng/kg	U
72918-21-9	1,2,3,7,8,9-HxCDF	1	0.000	1.054-1.426	0.193	0.999	ND	ng/kg	U
39227-28-6	1,2,3,4,7,8-HxCDD	1	0.000	1.054-1.426	0.180	0.999	ND	ng/kg	U
57653-85-7	1,2,3,6,7,8-HxCDD	1	0.000	1.054-1.426	0.176	0.999	ND	ng/kg	U
19408-74-3	1,2,3,7,8,9-HxCDD	1	0.000	1.054-1.426	0.195	0.999	ND	ng/kg	U
67562-39-4	1,2,3,4,6,7,8-HpCDF	1	0.000	0.893-1.208	0.142	0.999	ND	ng/kg	U
55673-89-7	1,2,3,4,7,8,9-HpCDF	1	0.000	0.893-1.208	0.225	0.999	ND	ng/kg	U
35822-46-9	1,2,3,4,6,7,8-HpCDD	1	0.000	0.893-1.208	0.231	2.50	ND	ng/kg	U
39001-02-0	OCDF	1	0.000	0.757-1.024	0.474	2.50	ND	ng/kg	U
3268-87-9	OCDD	1	1.217	0.757-1.024	0.347	9.99	0.999	ng/kg	EMPC, J

Homologue Groups

55722-27-5	Total TCDF	1	0.000			0.999	ND	ng/kg
41903-57-5	Total TCDD	1	0.000			0.999	ND	ng/kg
30402-15-4	Total PeCDF	1	0.000			0.999	ND	ng/kg
36088-22-9	Total PeCDD	1	0.000			0.999	ND	ng/kg
55684-94-1	Total HxCDF	1	0.000			0.999	ND	ng/kg
34465-46-8	Total HxCDD	1	0.000			0.999	ND	ng/kg
38998-75-3	Total HpCDF	1	0.000			0.999	ND	ng/kg
37871-00-4	Total HpCDD	1	0.000			0.999	ND	ng/kg

Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=0, Including EMPC): 0.183
Total 2,3,7,8-TCDD Equivalence (WHO2005, ND=1/2 EDL, Including EMPC): 0.370

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Blank

Form 2
METHOD BLANK DATA SHEET
EPA 1613B
Dioxins/Furans by HRGC/HRMS

Laboratory:	Analytical Resources, LLC			SDG:	23C0071
Client:	Anchor QEA, LLC			Project:	AOC5 MR Phase 1
Matrix:	Solid	Laboratory ID:	BLC0379-BLK1	File ID:	23042423
Sampled:	N/A	Prepared:	03/15/23 06:39	Analyzed:	04/25/23 08:36
Solids Wt%:	0.00	Preparation:	EPA 8290	Initial/Final:	10.01 g / 20 uL
Result Basis:	Dry	Sequence:	SLD0330	Calibration:	GC00015
Batch:	BLC0379	Instrument:	AUTOSPEC01	Column:	RTX-Dioxin2

Labels	DF/Split	Ion Ratio	Ratio Limits	EDL	% REC	QC LIMITS	Q
13C12-2,3,7,8-TCDF	1	0.780	0.655-0.886	0.16	56.9	24 - 169 %	
13C12-2,3,7,8-TCDD	1	0.792	0.655-0.886	0.26	67.6	25 - 164 %	
13C12-1,2,3,7,8-PeCDF	1	1.508	1.318-1.783	0.38	90.1	24 - 185 %	
13C12-2,3,4,7,8-PeCDF	1	1.521	1.318-1.783	0.42	88.8	21 - 178 %	
13C12-1,2,3,7,8-PeCDD	1	1.686	1.318-1.783	0.19	68.3	25 - 181 %	
13C12-1,2,3,4,7,8-HxCDF	1	0.511	0.434-0.587	0.45	88.9	26 - 152 %	
13C12-1,2,3,6,7,8-HxCDF	1	0.510	0.434-0.587	0.38	81.5	26 - 123 %	
13C12-2,3,4,6,7,8-HxCDF	1	0.526	0.434-0.587	0.47	88.4	28 - 136 %	
13C12-1,2,3,7,8,9-HxCDF	1	0.507	0.434-0.587	0.56	85.4	29 - 147 %	
13C12-1,2,3,4,7,8-HxCDD	1	1.270	1.054-1.426	0.50	89.2	32 - 141 %	
13C12-1,2,3,6,7,8-HxCDD	1	1.223	1.054-1.426	0.43	82.6	28 - 130 %	
13C12-1,2,3,4,6,7,8-HpCDF	1	0.470	0.374-0.506	0.58	103	28 - 143 %	
13C12-1,2,3,4,7,8,9-HpCDF	1	0.439	0.374-0.506	0.68	90.8	26 - 138 %	
13C12-1,2,3,4,6,7,8-HpCDD	1	1.100	0.893-1.208	0.46	81.6	23 - 140 %	
13C12-OCDD	1	0.903	0.757-1.024	0.49	85.1	17 - 157 %	
37Cl4-2,3,7,8-TCDD	1	328.000		0.08	62.7	35 - 197 %	

* Values outside of QC limits

Dataset: T:\Autospec\Processed Data Batch\230424D2.qld
Last Altered: Tuesday, April 25, 2023 14:48:36 Pacific Daylight Time
Printed: Tuesday, April 25, 2023 14:50:06 Pacific Daylight Time

Method: T:\Autospec\Methods\Dioxin230424.mdb 25 Apr 2023 07:59:40
Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 11:57:27

ID: BLC0379-BLK1, Name: 23042423, Date: 25-Apr-2023, Time: 08:36:28, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF					0.702		0.770	576	796								
12378-PeCDF					0.679		1.550	547	1022								
23478-PeCDF					0.786		1.550	547	1022								
123478-HxCDF					1.166		1.240	652	732								
234678-HxCDF					1.140		1.240	652	732								
123678-HxCDF					1.091		1.240	652	732								
123789-HxCDF					1.137		1.240	652	732								
1234678-HpCDF					1.003		1.050	503	530								
1234789-HpCDF					0.953		1.050	503	530								
OCDF					0.778		0.890	590	740								
2378-TCDD					1.149		0.770	951	551								
12378-PeCDD	31.438	1.001	1.468e2	7.549e1	1.022	1.944	1.550	830	494	2.94e3	1.79e3	3.5	3.6	YES	bb	bd	0.092
123478-HxCDD					0.996		1.240	601	786								
123678-HxCDD					1.001		1.240	601	786								
123789-HxCDD					0.907		1.240	601	786								
1234678-HpCDD					1.039		1.050	655	571								
OCDD	44.860	1.000	5.320e2	4.371e2	0.920	1.217	0.890	503	649	8.99e3	7.36e3	17.9	11.3	YES	MM	MM	0.500
13C-2378-TCDF	25.675	1.007	1.697e5	2.175e5	1.620	0.780	0.770	1631	1115	2.39e6	3.05e6	1467.8	2737.8	NO	bb	bb	56.933
13C-12378-PeCDF	29.822	1.169	2.821e5	1.870e5	1.240	1.508	1.550	1956	2892	4.10e6	2.66e6	2094.6	918.4	NO	bb	bd	90.117
13C-23478-PeCDF	31.159	1.222	2.515e5	1.653e5	1.118	1.521	1.550	1956	2892	3.77e6	2.46e6	1925.3	852.0	NO	bb	bb	88.849
13C-123478-HxCDF	34.780	0.955	1.133e5	2.217e5	1.168	0.511	0.510	2176	2098	1.71e6	3.33e6	784.2	1586.2	NO	bd	bd	88.908
13C-123678-HxCDF	34.925	0.959	1.231e5	2.414e5	1.386	0.510	0.510	2176	2098	1.80e6	3.48e6	828.3	1659.0	NO	db	db	81.509
13C-234678-HxCDF	35.783	0.983	1.110e5	2.109e5	1.129	0.526	0.510	2176	2098	1.61e6	3.09e6	738.1	1474.8	NO	bb	bb	88.395
13C-123789-HxCDF	36.819	1.011	8.642e4	1.703e5	0.932	0.507	0.510	2176	2098	1.27e6	2.46e6	583.8	1173.3	NO	bb	bb	85.422
13C-1234678-HpCDF	38.657	1.062	9.532e4	2.030e5	0.895	0.470	0.440	1519	2722	1.39e6	3.10e6	916.1	1140.2	NO	bd	bb	103.311
13C-1234789-HpCDF	40.896	1.123	6.876e4	1.566e5	0.770	0.439	0.440	1519	2722	8.82e5	2.00e6	580.3	733.6	NO	bd	bb	90.766
13C-1234-TCDD	25.506	0.000	1.850e5	2.347e5	1.000	0.788	0.770	2075	1031	2.74e6	3.46e6	1319.8	3357.4	NO	bb	bb	100.000
13C-2378-TCDD	26.311	1.032	1.445e5	1.824e5	1.152	0.792	0.770	2075	1031	2.12e6	2.67e6	1021.2	2594.2	NO	bb	bb	67.592
13C-12378-PeCDD	31.415	1.232	1.492e5	8.848e4	0.829	1.686	1.550	571	1031	2.05e6	1.22e6	3598.7	1181.2	NO	bb	bd	68.334
13C-123478-HxCDD	35.905	0.986	1.601e5	1.260e5	0.995	1.270	1.240	2081	1938	2.60e6	2.01e6	1249.6	1039.3	NO	bd	bd	89.159
13C-123678-HxCDD	36.017	0.989	1.696e5	1.387e5	1.157	1.223	1.240	2081	1938	2.60e6	2.08e6	1250.2	1073.5	NO	db	db	82.634
13C-1234678-HpCDD	40.150	1.103	1.158e5	1.053e5	0.840	1.100	1.050	1571	1601	1.60e6	1.47e6	1020.6	918.9	NO	bb	bb	81.611
13C-OCDD	44.851	1.232	2.001e5	2.215e5	0.767	0.903	0.890	1317	1716	2.05e6	2.31e6	1560.2	1346.8	NO	bd	bd	170.280
13C-123789-HxCDD	36.407	0.000	1.798e5	1.428e5	1.000	1.259	1.240	2081	1938	2.71e6	2.11e6	1304.9	1089.6	NO	bb	bb	100.000
37CL-2378-TCDD	26.339	1.033	1.355e5		1.288			1076		2.03e6		1890.8			bb		25.077

Dataset: T:\Autospec\Processed Data Batch\230424D2.qld
Last Altered: Tuesday, April 25, 2023 14:48:36 Pacific Daylight Time
Printed: Tuesday, April 25, 2023 14:50:06 Pacific Daylight Time

ID: BLC0379-BLK1, Name: 23042423, Date: 25-Apr-2023, Time: 08:36:28, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF					0.802		0.770	576	796								
1289-TCDF					0.678		0.770	576	796								
13468-PECDF					1.246		1.550	642	930								
12389-PECDF					0.496		1.550	547	1022								
123468-HXCDF					1.169		1.240	652	732								
1368-TCDD					1.015		0.770	951	551								
1289-TCDD					0.909		0.770	951	551								
12479-PECDD					2.301		1.550	830	494								
12389-PECDD					1.184		1.550	830	494								
124679-HXCDD					1.115		1.240	601	786								
1234679-HPCDD	39.103	0.974	1.668e2	9.242e1	1.137	1.805	1.050	655	571	2.77e3	2.02e3	4.2	3.5	YES	bd	bb	0.103
Total-tetrafurans			0.000e0		0.727			576		0.00e0							
Total-penta1			0.000e0					642		0.00e0							
Total-pentafurans			0.000e0		0.654			547		0.00e0							
Total-hexafurans			0.000e0		1.141			652		0.00e0							
Total-heptafurans			0.000e0		0.978			503		0.00e0							
Total-Furans			0.000e0		0.922			576		0.00e0							
Total-tetradioxins			0.000e0		1.024			951		0.00e0							
Total-pentadioxins			0.000e0		1.502			830		0.00e0							
Total-hexadioxins			0.000e0		1.005			601		0.00e0							
Total-heptadioxins			0.000e0		1.088			655		0.00e0							
Total-Dioxins			0.000e0		1.130			951		0.00e0							
Total-TEQ			0.000e0					951		0.00e0							
FUNCTION1 PFK			8.158e7					619018		3.85e8							
FUNCTION2 PFK			1.479e7					277615		1.69e8							0.000
FUNCTION3 PFK			5.304e5					269162		1.20e7							0.000
FUNCTION4 PFK			7.222e5					300375		1.62e7							
FUNCTION5 PFK			1.135e5					153321		3.72e6							
FUNCTION1 HXCD...			8.459e2					673		9.51e3							0.000
FUNCTION1 HPCD...																	
FUNCTION2 HPCD...			3.687e2					1040		8.99e3							0.000
FUNCTION3 OCDPE			1.359e2					505		2.05e3							0.000
FUNCTION4 NCDPE			1.624e2					549		2.88e3							0.000
FUNCTION5 DCDPE			0.000e0					570		0.00e0							

Method: T:\Autospec\Methods\Dioxin230424.mdb 25 Apr 2023 07:59:40
Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 11:57:27

ID: BLC0379-BLK1, Name: 23042423, Date: 25-Apr-2023, Time: 08:36:28, Conditions: AUTOSPEC01, User: pk

TF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

PP

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

PF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

Furans,TF,PP,PF,HF,HPF,OF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

ID: BLC0379-BLK1, Name: 23042423, Date: 25-Apr-2023, Time: 08:36:28, Conditions: AUTOSPEC01, User: pk

HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

Dioxins,TD,PD,HD,HPD,OD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

Dataset: T:\Autospec\Processed Data Batch\230424D2.qld
Last Altered: Tuesday, April 25, 2023 14:48:36 Pacific Daylight Time
Printed: Tuesday, April 25, 2023 14:50:06 Pacific Daylight Time

ID: BLC0379-BLK1, Name: 23042423, Date: 25-Apr-2023, Time: 08:36:28, Conditions: AUTOSPEC01, User: pk

PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	24.05	1.496e6					16.8	YES		dd		
2	FUNCTION1 PFK	23.84	4.148e5					6.6	YES		bd		
3	FUNCTION1 PFK	23.32	4.583e6					24.4	YES		bb		
4	FUNCTION1 PFK	23.02	3.708e6					51.5	YES		db		
5	FUNCTION1 PFK	22.85	3.800e6					49.9	YES		dd		
6	FUNCTION1 PFK	22.79	7.097e6					48.6	YES		dd		
7	FUNCTION1 PFK	22.45	3.974e6					39.0	YES		dd		
8	FUNCTION1 PFK	22.19	4.050e6					37.1	YES		dd		
9	FUNCTION1 PFK	22.07	3.773e6					33.4	YES		bd		
10	FUNCTION1 PFK	21.81	1.388e6					24.5	YES		db		
11	FUNCTION1 PFK	21.49	3.921e6					15.9	YES		bd		
12	FUNCTION1 PFK	21.14	4.029e4					2.2	NO		bb		
13	FUNCTION1 PFK	27.46	4.156e5					6.6	YES		bb		
14	FUNCTION1 PFK	27.24	1.065e6					13.6	YES		db		
15	FUNCTION1 PFK	27.05	2.132e6					16.4	YES		dd		
16	FUNCTION1 PFK	26.83	8.822e5					18.4	YES		dd		
17	FUNCTION1 PFK	26.64	1.753e7					23.0	YES		bd		
18	FUNCTION1 PFK	25.49	3.167e6					28.8	YES		bb		
19	FUNCTION1 PFK	25.31	3.765e6					31.6	YES		db		
20	FUNCTION1 PFK	24.93	6.108e6					30.1	YES		dd		
21	FUNCTION1 PFK	24.69	2.725e6					26.9	YES		dd		
22	FUNCTION1 PFK	24.49	1.968e6					26.8	YES		dd		
23	FUNCTION1 PFK	24.45	1.532e6					25.6	YES		bd		
24	FUNCTION1 PFK	24.23	2.048e6					24.1	YES		db		

ID: BLC0379-BLK1, Name: 23042423, Date: 25-Apr-2023, Time: 08:36:28, Conditions: AUTOSPEC01, User: pk

PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	28.17	9.075e5					50.4	YES		dd		0.000
2	FUNCTION2 PFK	28.14	9.301e5					50.8	YES		dd		0.000
3	FUNCTION2 PFK	28.04	7.986e5					53.2	YES		bd		0.000
4	FUNCTION2 PFK	29.99	2.528e4					2.2	NO		bd		0.000
5	FUNCTION2 PFK	29.74	1.615e5					5.3	YES		db		0.000
6	FUNCTION2 PFK	29.65	7.830e4					7.1	YES		dd		0.000
7	FUNCTION2 PFK	29.61	9.074e4					7.9	YES		dd		0.000
8	FUNCTION2 PFK	29.55	1.452e5					10.2	YES		dd		0.000
9	FUNCTION2 PFK	29.42	4.657e5					15.1	YES		dd		0.000
10	FUNCTION2 PFK	29.29	1.162e6					19.6	YES		dd		0.000
11	FUNCTION2 PFK	29.02	1.990e6					28.4	YES		dd		0.000
12	FUNCTION2 PFK	28.89	3.862e5					31.8	YES		dd		0.000
13	FUNCTION2 PFK	28.83	5.075e5					33.4	YES		dd		0.000
14	FUNCTION2 PFK	28.79	4.271e5					35.2	YES		dd		0.000
15	FUNCTION2 PFK	28.64	3.398e6					39.6	YES		dd		0.000
16	FUNCTION2 PFK	28.40	9.717e5					46.4	YES		dd		0.000
17	FUNCTION2 PFK	28.34	7.363e5					48.5	YES		dd		0.000
18	FUNCTION2 PFK	28.30	5.984e5					48.8	YES		dd		0.000
19	FUNCTION2 PFK	28.25	7.594e5					50.2	YES		dd		0.000
20	FUNCTION2 PFK	31.46	2.251e4					1.8	NO		bb		0.000
21	FUNCTION2 PFK	31.39	1.225e3					0.4	NO		bb		0.000
22	FUNCTION2 PFK	31.35	2.881e4					2.1	NO		bb		0.000
23	FUNCTION2 PFK	31.18	1.383e3					0.4	NO		bb		0.000
24	FUNCTION2 PFK	31.10	1.311e4					1.3	NO		db		0.000
25	FUNCTION2 PFK	31.06	1.213e4					1.4	NO		dd		0.000
26	FUNCTION2 PFK	30.95	2.811e4					1.3	NO		bd		0.000
27	FUNCTION2 PFK	30.89	1.675e4					1.7	NO		db		0.000
28	FUNCTION2 PFK	30.84	1.161e4					1.5	NO		bd		0.000
29	FUNCTION2 PFK	30.70	8.696e3					1.0	NO		bb		0.000
30	FUNCTION2 PFK	30.46	1.660e4					0.9	NO		bb		0.000
31	FUNCTION2 PFK	30.37	3.417e3					0.6	NO		bb		0.000
32	FUNCTION2 PFK	30.25	4.997e3					0.8	NO		bb		0.000
33	FUNCTION2 PFK	30.20	2.810e3					0.6	NO		db		0.000
34	FUNCTION2 PFK	30.16	1.026e4					1.4	NO		bd		0.000
35	FUNCTION2 PFK	30.06	1.125e4					1.2	NO		db		0.000
36	FUNCTION2 PFK	32.56	1.317e4					1.1	NO		bb		0.000
37	FUNCTION2 PFK	32.34	1.283e4					1.6	NO		bb		0.000

ID: BLC0379-BLK1, Name: 23042423, Date: 25-Apr-2023, Time: 08:36:28, Conditions: AUTOSPEC01, User: pk

PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	FUNCTION2 PFK	32.13	9.974e2					0.3	NO		bb		0.000
39	FUNCTION2 PFK	31.93	4.462e3					0.8	NO		bb		0.000
40	FUNCTION2 PFK	31.86	6.144e3					0.8	NO		bb		0.000
41	FUNCTION2 PFK	31.67	8.494e3					1.1	NO		bb		0.000
42	FUNCTION2 PFK	31.54	1.283e4					1.1	NO		bb		0.000

ID: BLC0379-BLK1, Name: 23042423, Date: 25-Apr-2023, Time: 08:36:28, Conditions: AUTOSPEC01, User: pk

PFK3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	33.49	3.003e4					2.4	NO		bd		0.000
2	FUNCTION3 PFK	33.44	3.369e3					1.1	NO		bb		0.000
3	FUNCTION3 PFK	33.40	7.831e3					1.1	NO		db		0.000
4	FUNCTION3 PFK	33.34	1.582e4					1.7	NO		bd		0.000
5	FUNCTION3 PFK	33.14	6.254e4					2.5	NO		db		0.000
6	FUNCTION3 PFK	33.10	1.230e4					1.4	NO		dd		0.000
7	FUNCTION3 PFK	33.02	2.878e4					2.7	NO		bd		0.000
8	FUNCTION3 PFK	32.90	5.980e3					1.4	NO		bb		0.000
9	FUNCTION3 PFK	36.80	1.211e4					1.4	NO		bb		0.000
10	FUNCTION3 PFK	36.17	3.971e4					1.5	NO		bb		0.000
11	FUNCTION3 PFK	36.06	3.617e4					2.1	NO		db		0.000
12	FUNCTION3 PFK	35.99	1.320e4					1.6	NO		bd		0.000
13	FUNCTION3 PFK	35.92	8.643e3					0.6	NO		bb		0.000
14	FUNCTION3 PFK	35.65	3.839e4					1.9	NO		bb		0.000
15	FUNCTION3 PFK	35.48	6.149e3					1.1	NO		bb		0.000
16	FUNCTION3 PFK	35.38	3.440e3					0.5	NO		bb		0.000
17	FUNCTION3 PFK	35.26	1.829e4					1.7	NO		bb		0.000
18	FUNCTION3 PFK	35.19	1.209e4					1.9	NO		bb		0.000
19	FUNCTION3 PFK	35.01	1.573e4					1.3	NO		bb		0.000
20	FUNCTION3 PFK	34.96	1.621e3					0.5	NO		bb		0.000
21	FUNCTION3 PFK	34.85	6.867e3					0.9	NO		bb		0.000
22	FUNCTION3 PFK	34.20	2.613e4					1.9	NO		bb		0.000
23	FUNCTION3 PFK	33.96	1.744e3					0.6	NO		bb		0.000
24	FUNCTION3 PFK	33.58	3.555e4					2.3	NO		db		0.000
25	FUNCTION3 PFK	37.57	9.390e3					1.5	NO		bb		0.000
26	FUNCTION3 PFK	37.45	1.969e4					1.6	NO		bb		0.000
27	FUNCTION3 PFK	37.39	3.197e4					1.7	NO		bb		0.000
28	FUNCTION3 PFK	37.29	3.480e3					0.7	NO		db		0.000
29	FUNCTION3 PFK	37.19	9.952e3					0.9	NO		bd		0.000
30	FUNCTION3 PFK	36.90	5.437e3					0.9	NO		bb		0.000
31	FUNCTION3 PFK	36.85	8.016e3					1.1	NO		bb		0.000

ID: BLC0379-BLK1, Name: 23042423, Date: 25-Apr-2023, Time: 08:36:28, Conditions: AUTOSPEC01, User: pk

PFK4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	38.81	3.590e3					0.7	NO		bb		
2	FUNCTION4 PFK	38.77	1.091e3					0.3	NO		bb		
3	FUNCTION4 PFK	38.36	3.970e4					1.7	NO		db		
4	FUNCTION4 PFK	38.28	1.854e4					2.0	NO		dd		
5	FUNCTION4 PFK	38.20	6.011e4					2.1	NO		dd		
6	FUNCTION4 PFK	38.09	3.760e4					2.9	NO		dd		
7	FUNCTION4 PFK	38.03	3.142e4					3.0	NO		dd		
8	FUNCTION4 PFK	37.96	1.587e4					1.5	NO		bd		
9	FUNCTION4 PFK	40.34	1.835e4					1.1	NO		db		
10	FUNCTION4 PFK	40.25	1.176e4					1.2	NO		bd		
11	FUNCTION4 PFK	40.21	6.240e3					0.6	NO		bb		
12	FUNCTION4 PFK	40.08	4.949e3					0.7	NO		bb		
13	FUNCTION4 PFK	40.04	3.725e3					0.4	NO		bb		
14	FUNCTION4 PFK	39.83	1.275e4					1.6	NO		db		
15	FUNCTION4 PFK	39.82	1.660e4					1.5	NO		bd		
16	FUNCTION4 PFK	39.74	8.626e3					1.0	NO		bb		
17	FUNCTION4 PFK	39.45	1.348e4					1.0	NO		bb		
18	FUNCTION4 PFK	39.39	5.827e3					0.7	NO		bb		
19	FUNCTION4 PFK	39.27	7.541e3					1.2	NO		db		
20	FUNCTION4 PFK	39.24	2.034e4					1.8	NO		dd		
21	FUNCTION4 PFK	39.20	1.809e4					1.7	NO		dd		
22	FUNCTION4 PFK	39.14	2.663e4					1.7	NO		dd		
23	FUNCTION4 PFK	39.02	4.284e4					2.0	NO		dd		
24	FUNCTION4 PFK	38.92	1.948e4					1.2	NO		bd		
25	FUNCTION4 PFK	42.60	2.088e4					1.5	NO		bb		
26	FUNCTION4 PFK	42.41	9.326e3					0.9	NO		bb		
27	FUNCTION4 PFK	42.32	9.211e3					1.2	NO		db		
28	FUNCTION4 PFK	42.24	2.348e4					1.2	NO		bd		
29	FUNCTION4 PFK	42.07	4.494e3					0.8	NO		bb		
30	FUNCTION4 PFK	41.70	2.778e3					0.4	NO		bb		
31	FUNCTION4 PFK	41.62	1.416e4					1.1	NO		bb		
32	FUNCTION4 PFK	41.31	2.838e4					2.1	NO		db		
33	FUNCTION4 PFK	41.22	5.319e4					2.7	NO		dd		
34	FUNCTION4 PFK	41.16	1.450e4					1.5	NO		bd		
35	FUNCTION4 PFK	41.11	1.070e3					0.3	NO		bb		
36	FUNCTION4 PFK	40.90	1.159e4					0.7	NO		bb		
37	FUNCTION4 PFK	40.65	3.018e3					0.5	NO		db		

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PFK4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	FUNCTION4 PFK	40.60	1.415e4					1.3	NO		bd		
39	FUNCTION4 PFK	40.54	6.174e3					0.8	NO		bb		
40	FUNCTION4 PFK	40.42	1.196e4					1.2	NO		bb		
41	FUNCTION4 PFK	42.94	1.950e4					1.4	NO		bb		
42	FUNCTION4 PFK	42.77	2.920e4					0.7	NO		bb		

PFK5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	45.19	1.440e4					1.4	NO		bb		
2	FUNCTION5 PFK	44.89	3.385e3					1.2	NO		bb		
3	FUNCTION5 PFK	44.75	4.568e3					1.2	NO		bb		
4	FUNCTION5 PFK	44.48	4.872e3					1.5	NO		bb		
5	FUNCTION5 PFK	44.37	8.964e3					2.1	NO		bb		
6	FUNCTION5 PFK	44.29	1.580e4					2.1	NO		db		
7	FUNCTION5 PFK	44.23	6.452e3					1.4	NO		bd		
8	FUNCTION5 PFK	44.05	7.064e3					1.4	NO		bb		
9	FUNCTION5 PFK	43.94	4.130e3					1.4	NO		bb		
10	FUNCTION5 PFK	43.68	1.200e4					1.4	NO		bb		
11	FUNCTION5 PFK	43.56	4.815e3					1.4	NO		db		
12	FUNCTION5 PFK	43.53	6.518e3					1.9	NO		bd		
13	FUNCTION5 PFK	43.08	3.985e3					1.5	NO		bb		
14	FUNCTION5 PFK	45.97	6.800e2					0.5	NO		bb		
15	FUNCTION5 PFK	45.71	9.378e3					1.7	NO		bb		
16	FUNCTION5 PFK	45.65	2.865e3					0.9	NO		db		
17	FUNCTION5 PFK	45.61	1.536e3					0.7	NO		bd		
18	FUNCTION5 PFK	45.55	2.047e3					0.7	NO		bb		

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ETHERS1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	26.52	7.399e1					1.6	NO		bb		0.000
2	FUNCTION1 HXCD...	25.93	8.703e1					1.8	NO		db		0.000
3	FUNCTION1 HXCD...	25.83	1.570e2					2.8	NO		bd		0.000
4	FUNCTION1 HXCD...	25.65	1.004e2					2.0	NO		db		0.000
5	FUNCTION1 HXCD...	25.52	2.672e2					3.6	YES		bd		0.000
6	FUNCTION1 HXCD...	22.47	7.811e1					1.2	NO		bb		0.000
7	FUNCTION1 HXCD...	21.73	8.216e1					1.1	NO		bb		0.000

ETHERS2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	31.67	7.826e1					2.1	NO		bb		0.000
2	FUNCTION2 HPCD...	30.21	1.069e2					2.0	NO		bb		0.000
3	FUNCTION2 HPCD...	31.98	8.095e1					2.0	NO		db		0.000
4	FUNCTION2 HPCD...	31.93	1.026e2					2.5	NO		bd		0.000

ETHERS4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	35.93	1.359e2					4.1	YES		bb		0.000

ETHERS5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	41.42	8.507e1					2.4	NO		bb		0.000
2	FUNCTION4 NCDPE	38.46	7.735e1					2.8	NO		bb		0.000

ETHERS6

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

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ID: BLC0379-BLK1, Name: 23042423, Date: 25-Apr-2023, Time: 08:36:28, Conditions: AUTOSPEC01, User: pk

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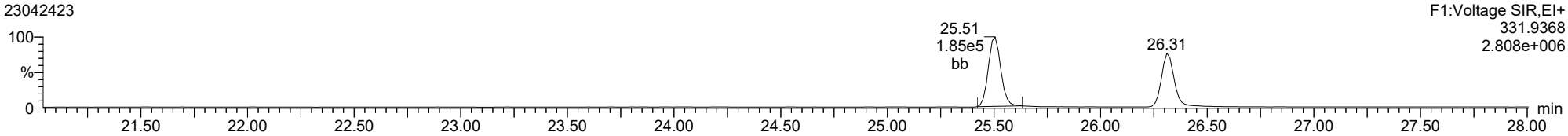

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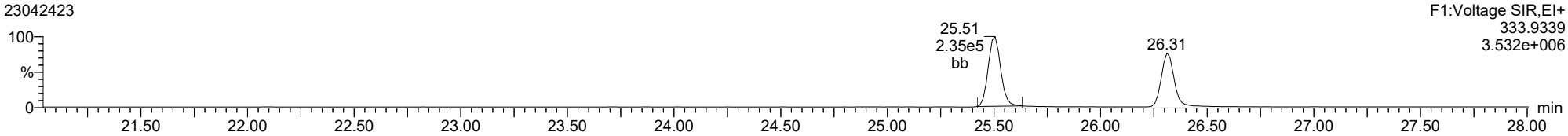
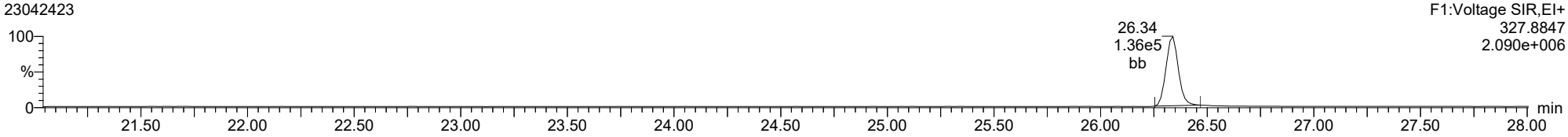


37CL-2378-TCDD



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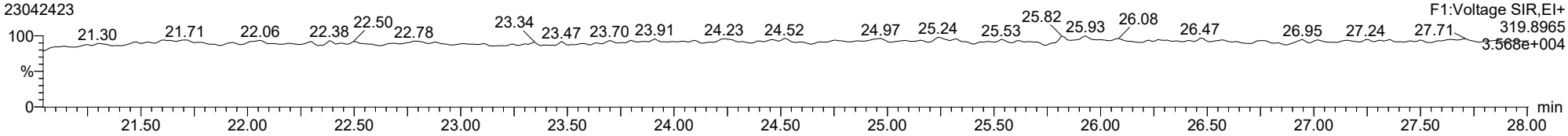

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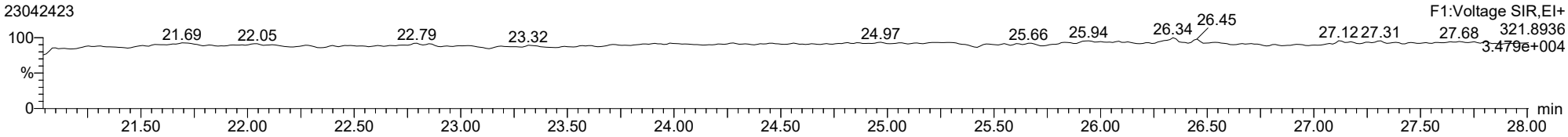

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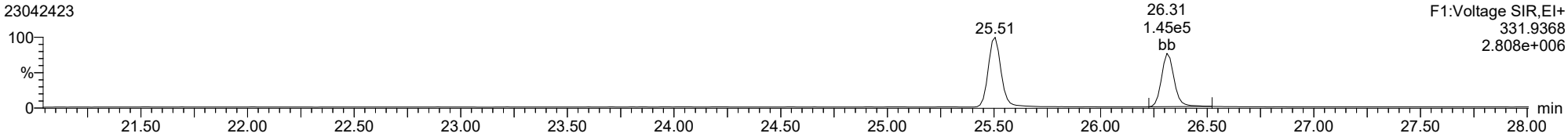

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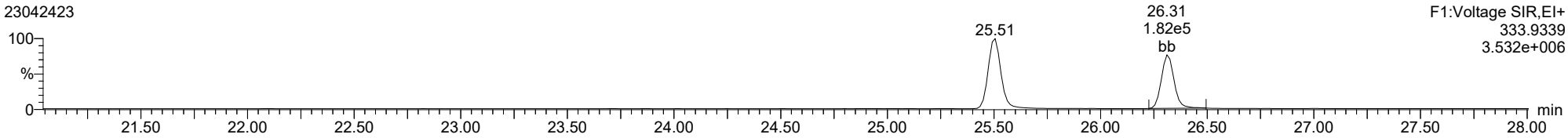
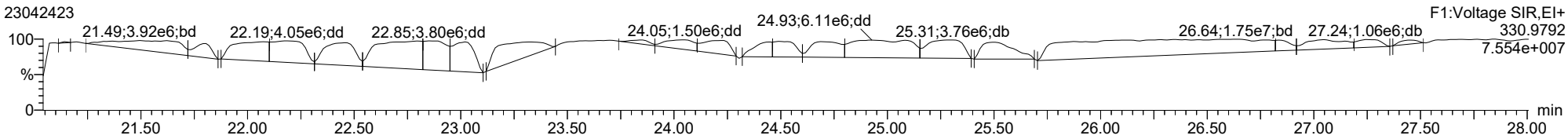


FUNCTION1 PFK



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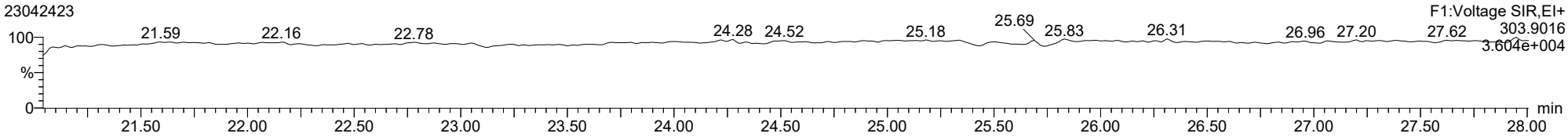
2378-TCDF



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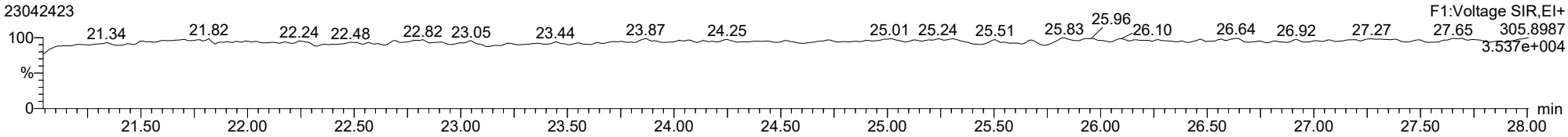

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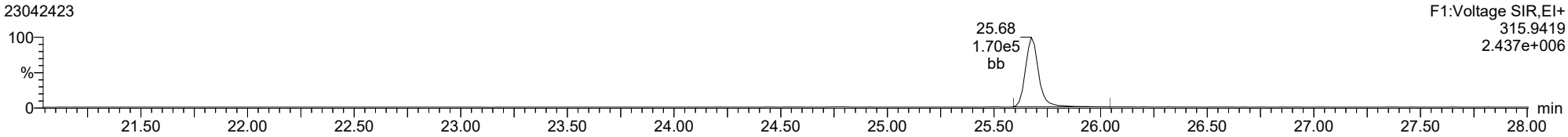

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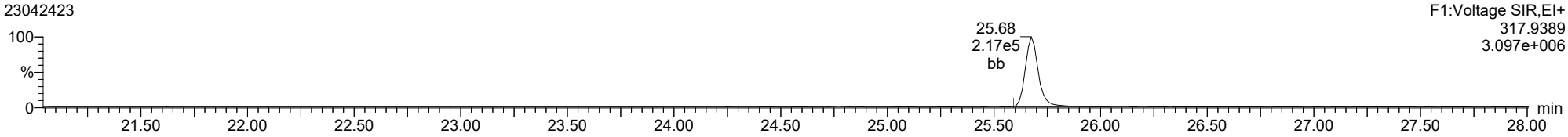
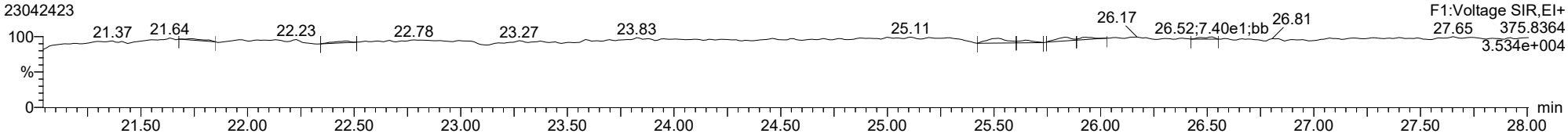


FUNCTION1 HXCDPE



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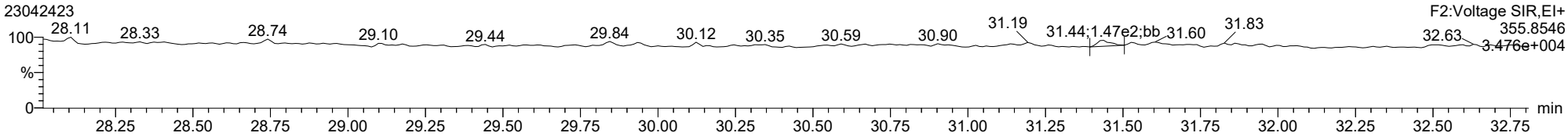
12378-PeCDD



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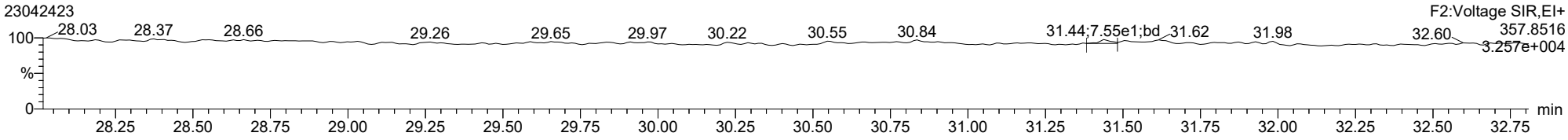

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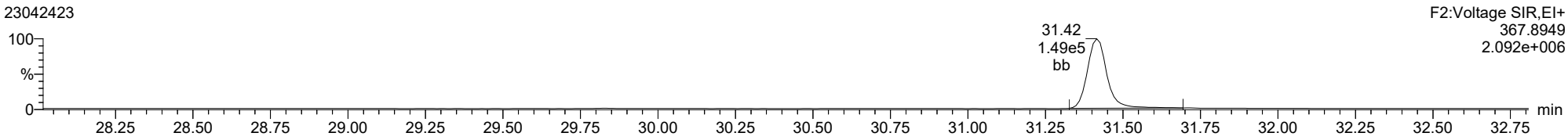

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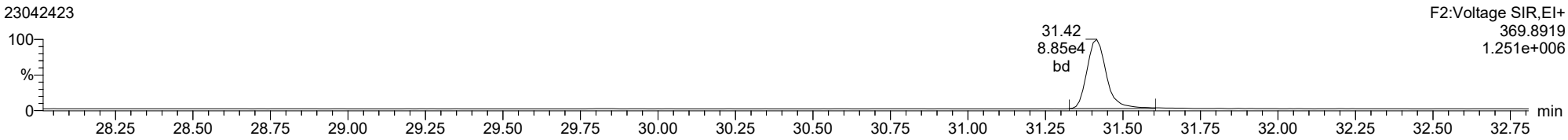
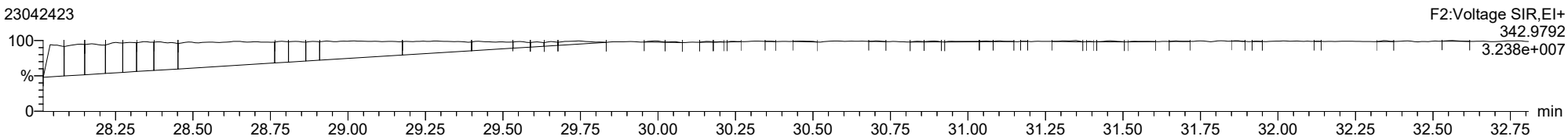


FUNCTION2 PFK



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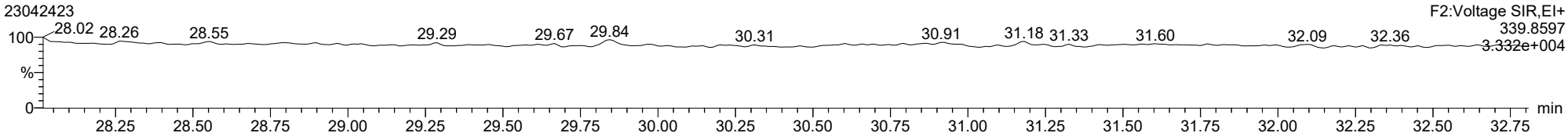
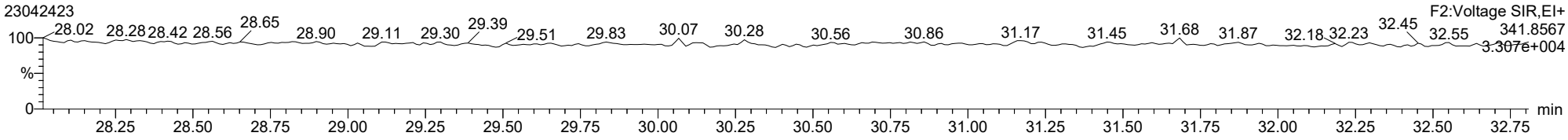
12378-PeCDF



12378-PeCDF



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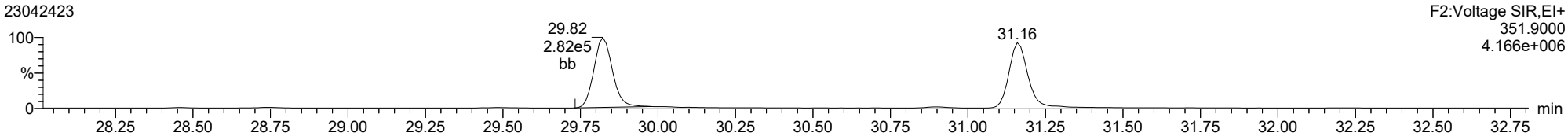

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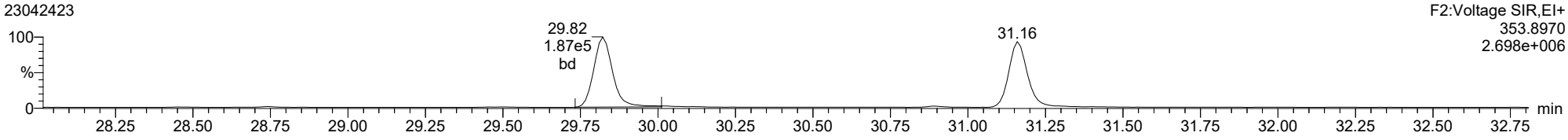

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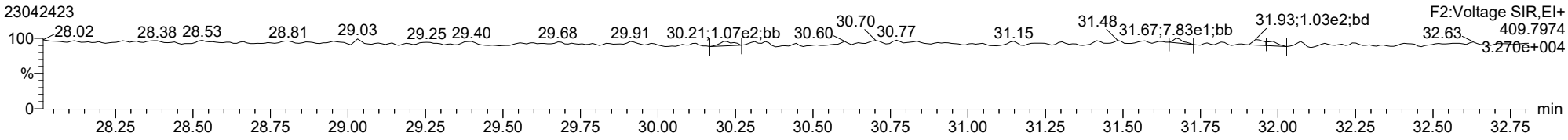

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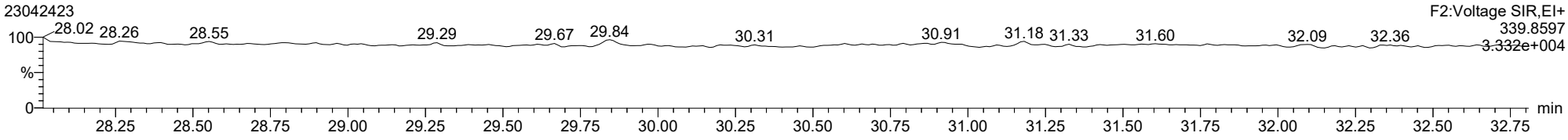

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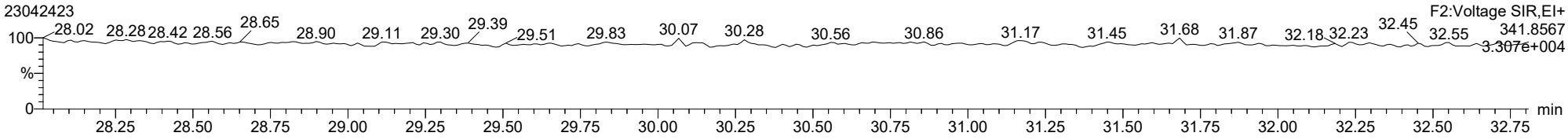

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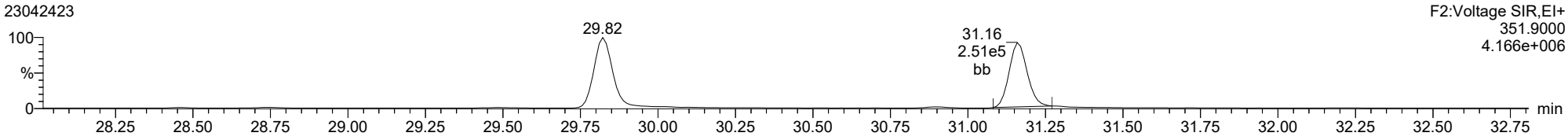

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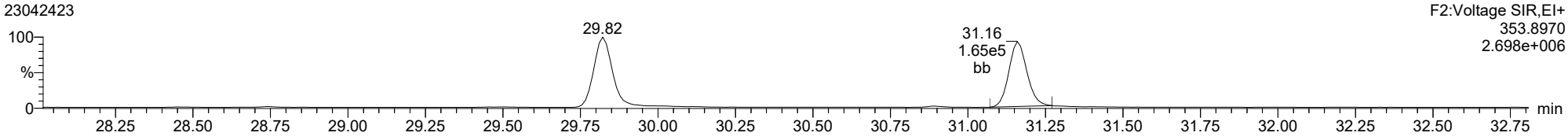

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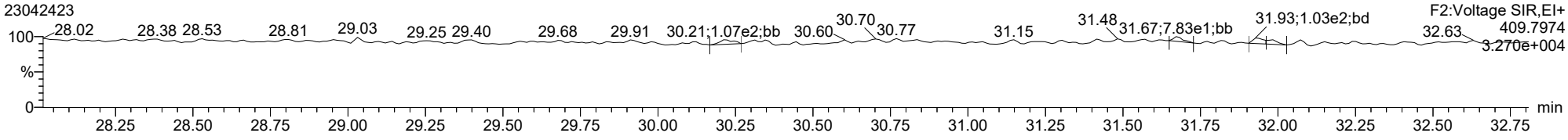

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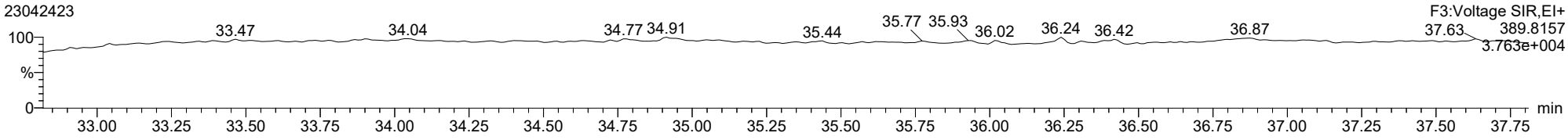

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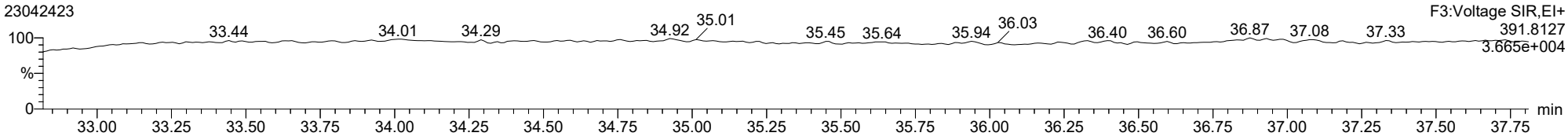

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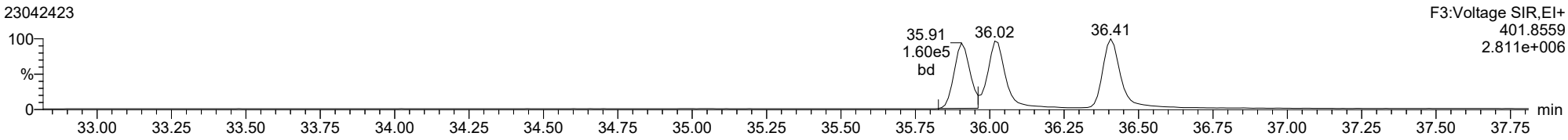

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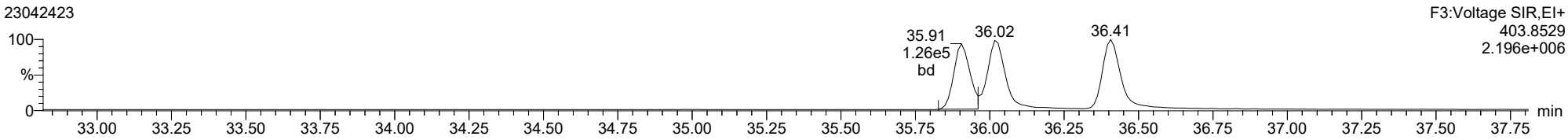

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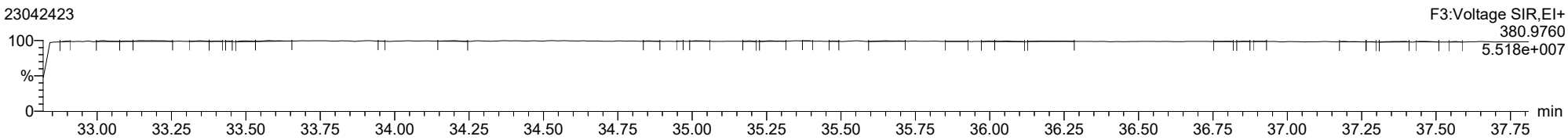

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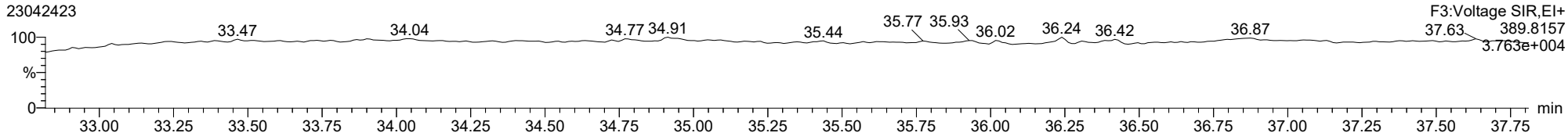

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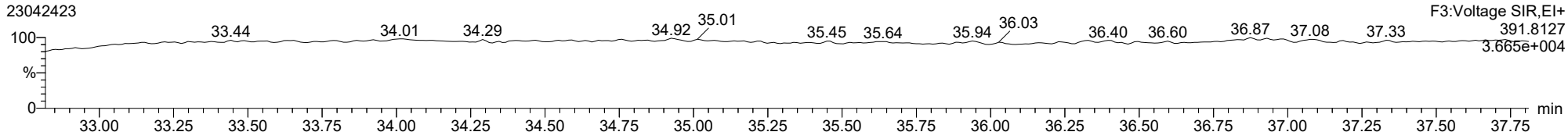

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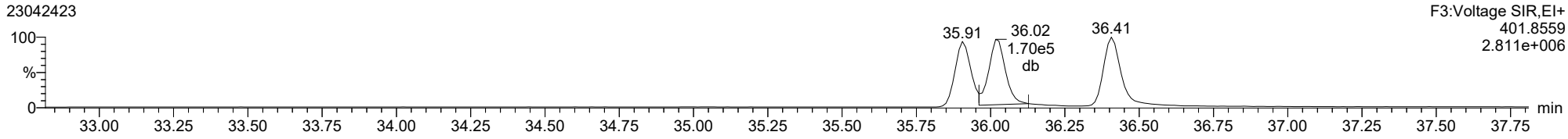

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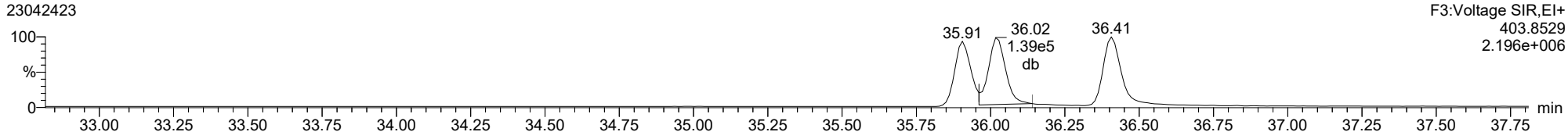

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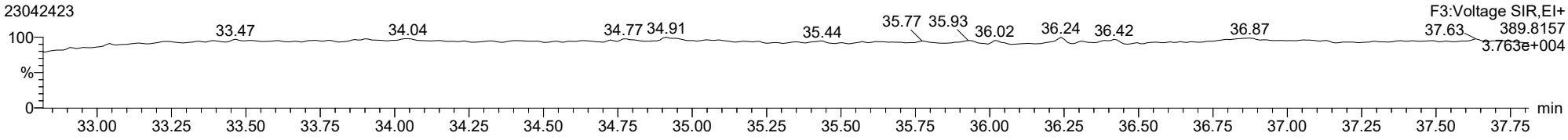

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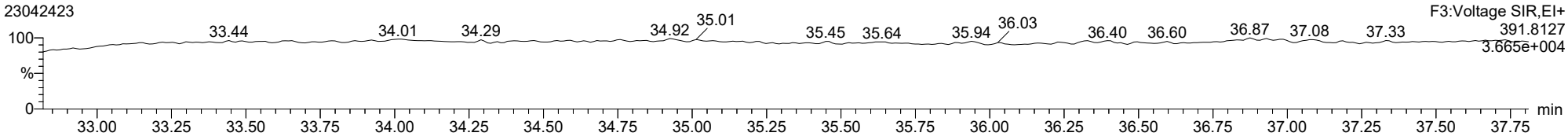

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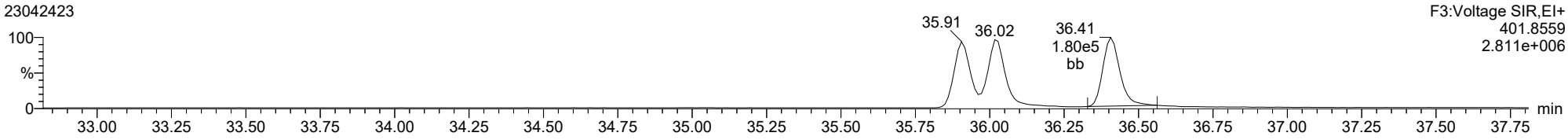

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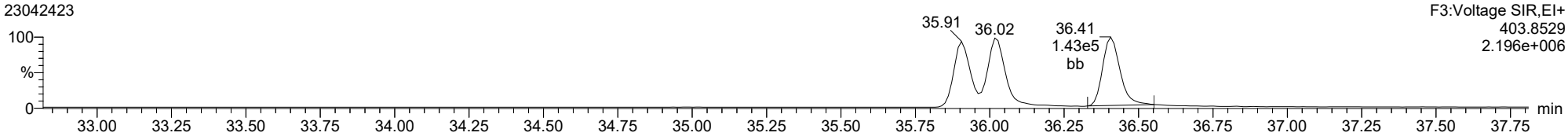

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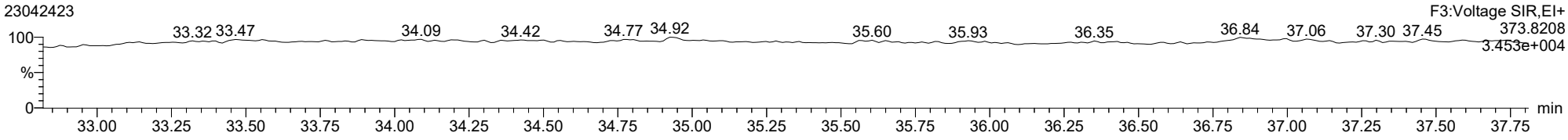

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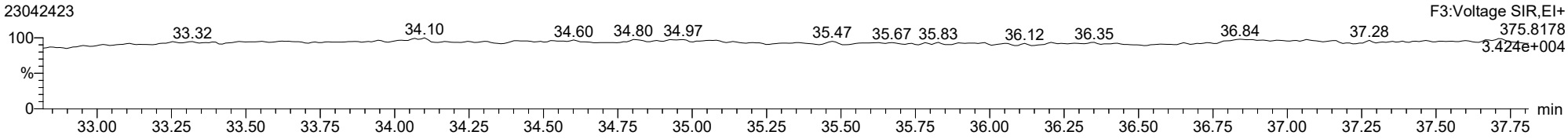

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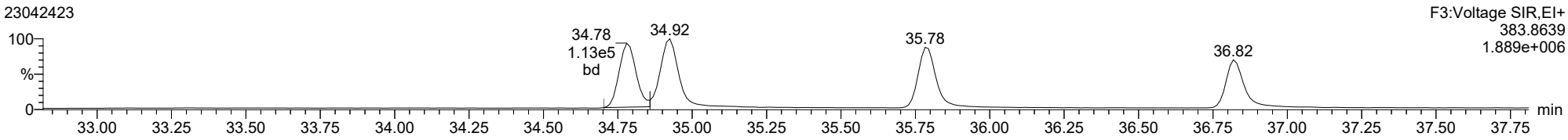

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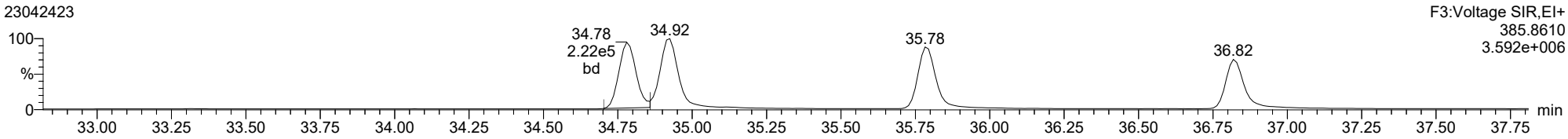

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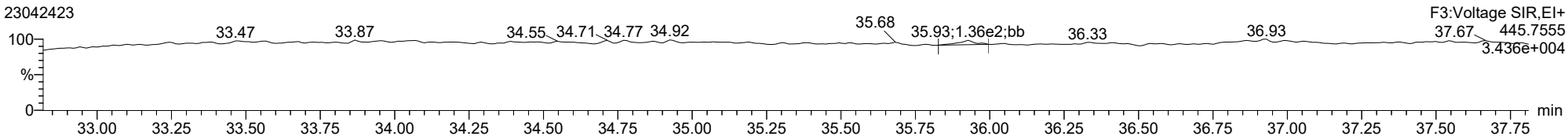

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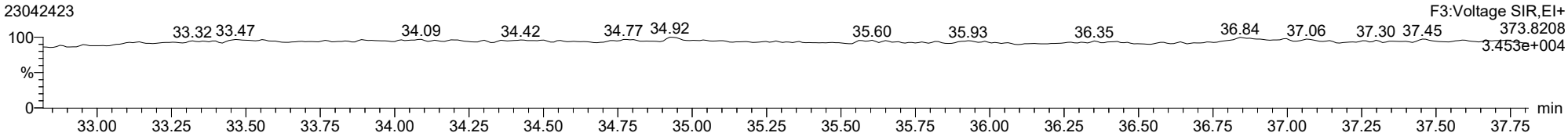

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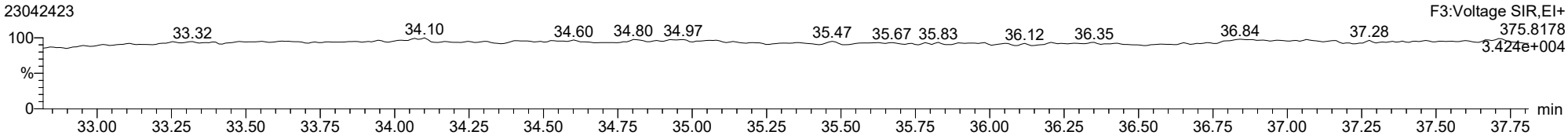

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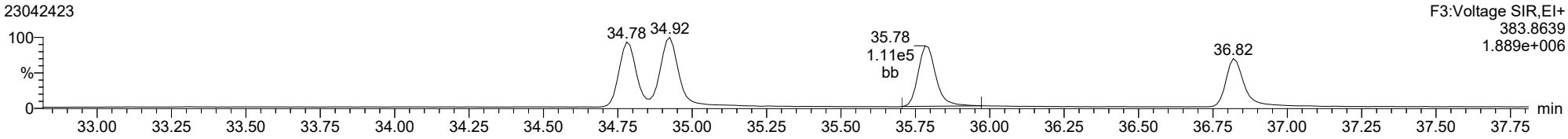

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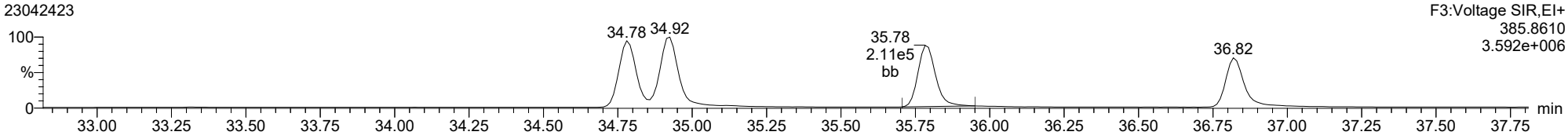

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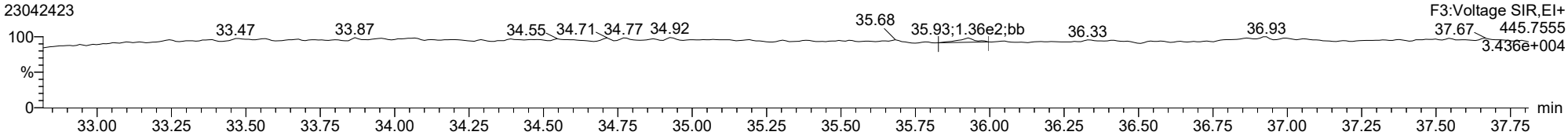

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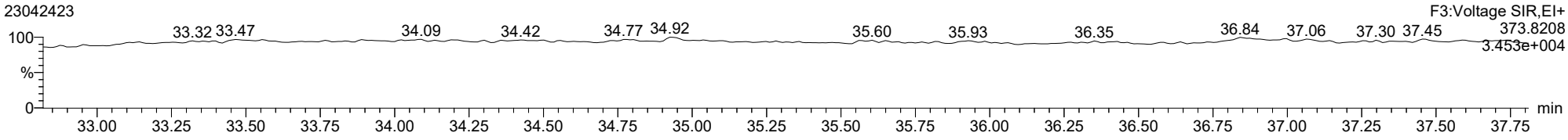

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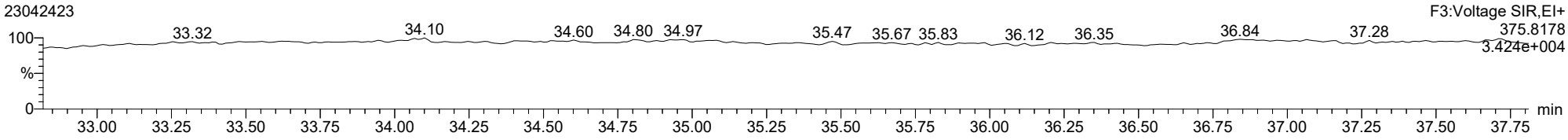

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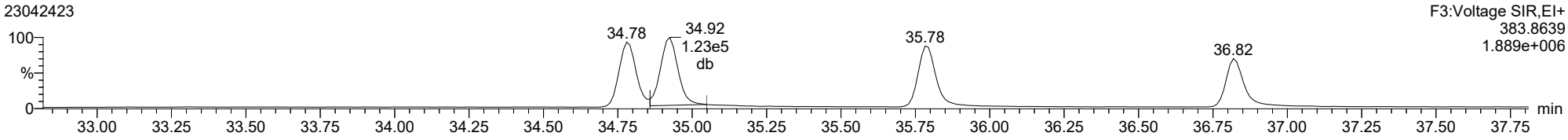

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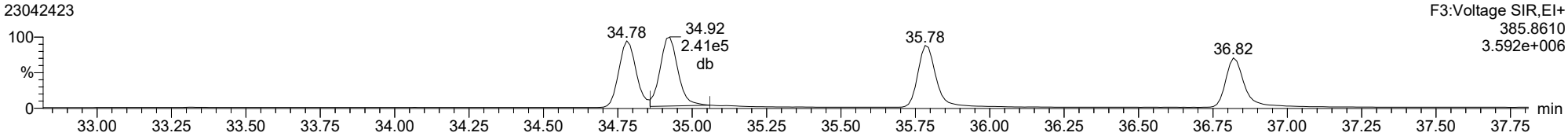

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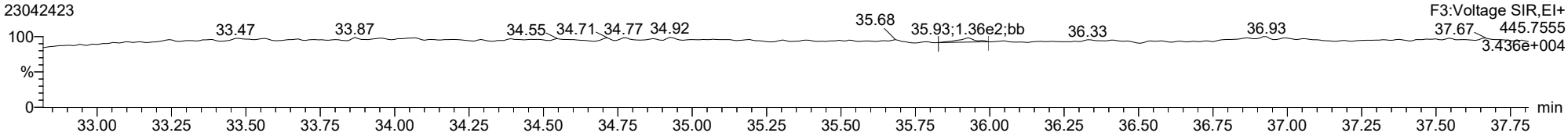

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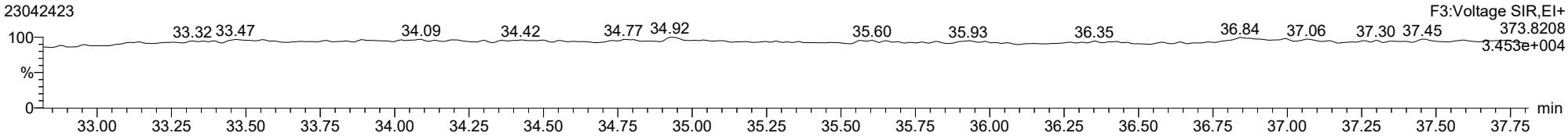

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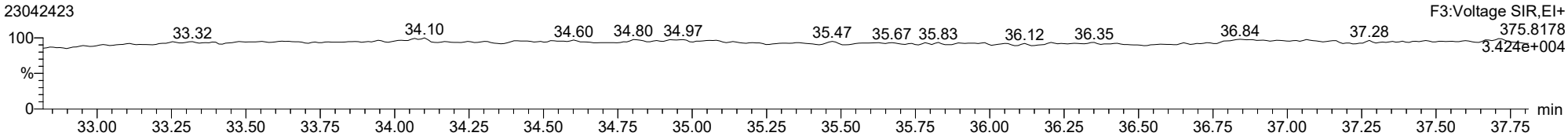

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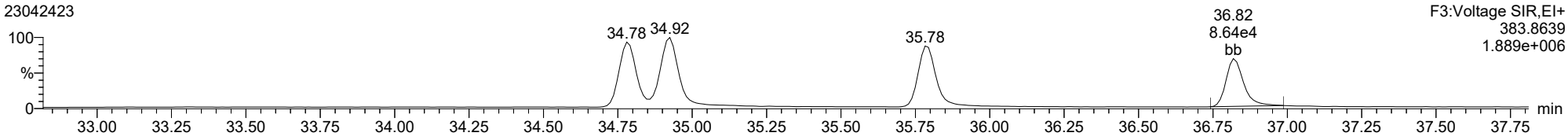

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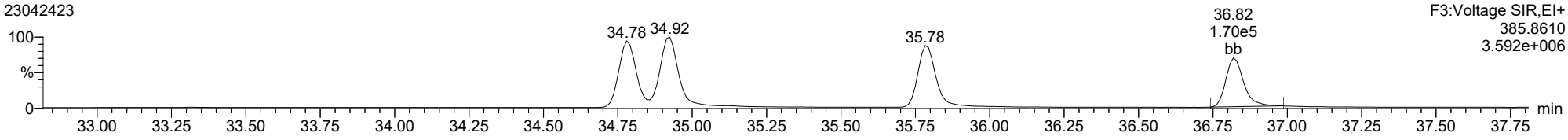

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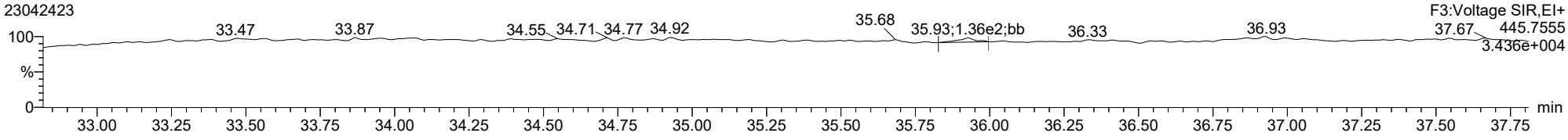

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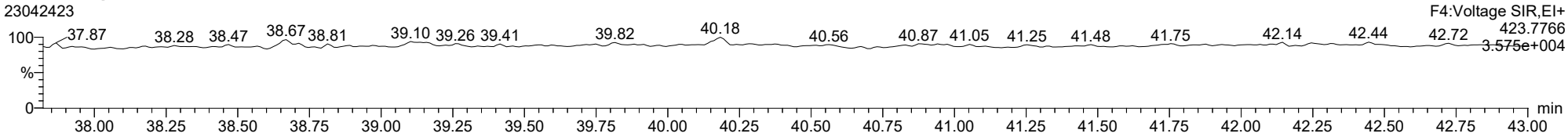

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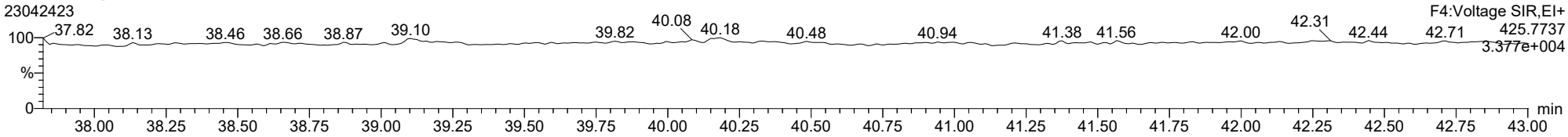

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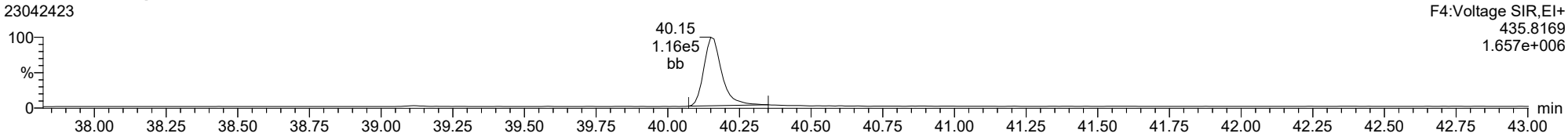

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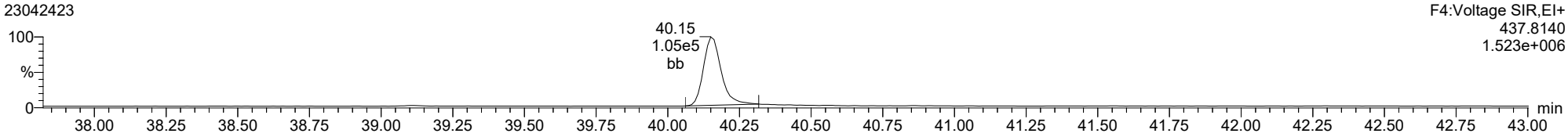

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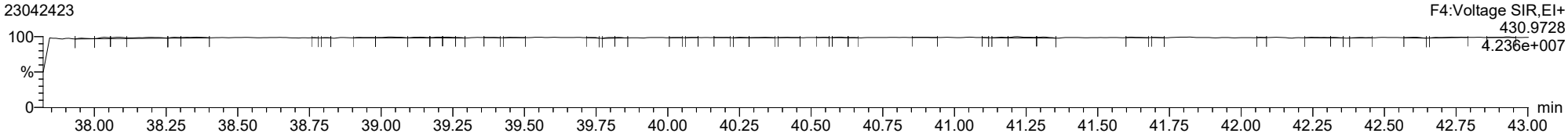

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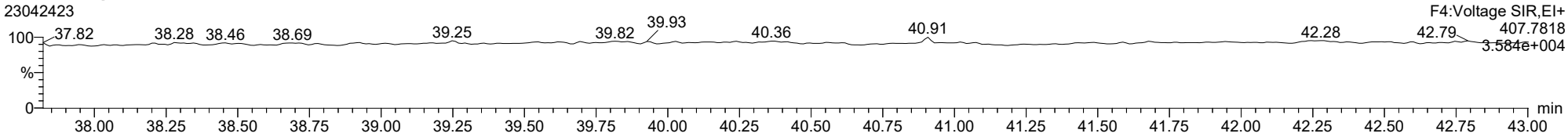
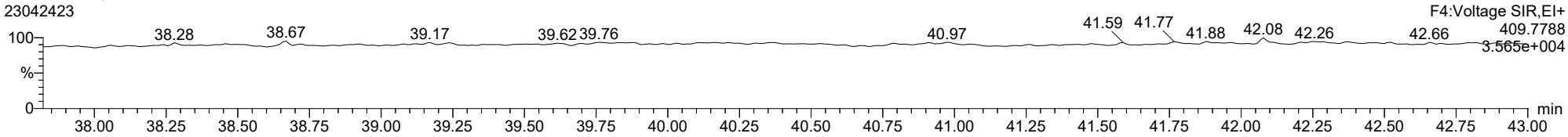


1234678-HpCDF



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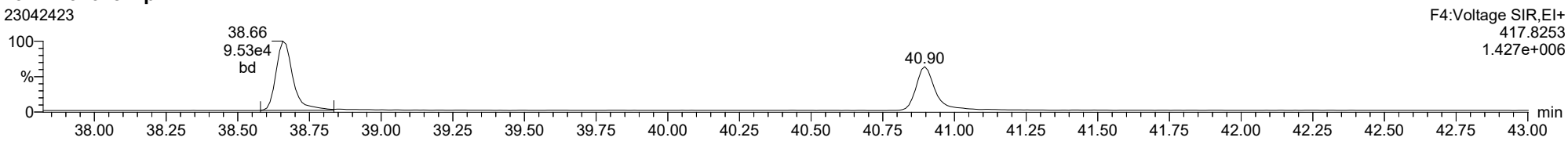

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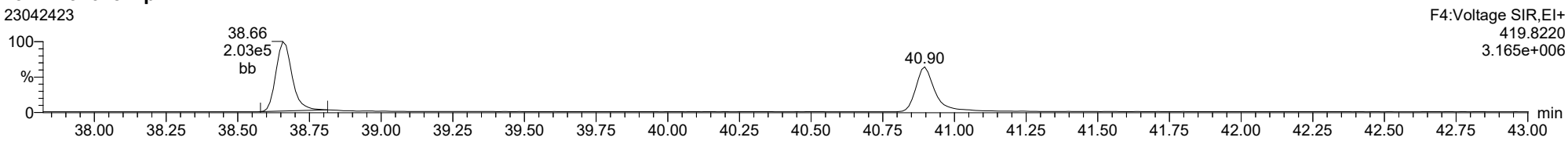
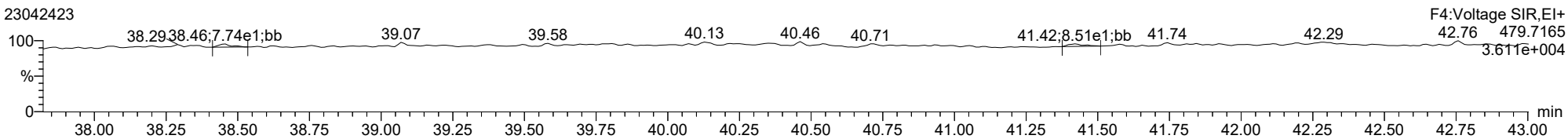
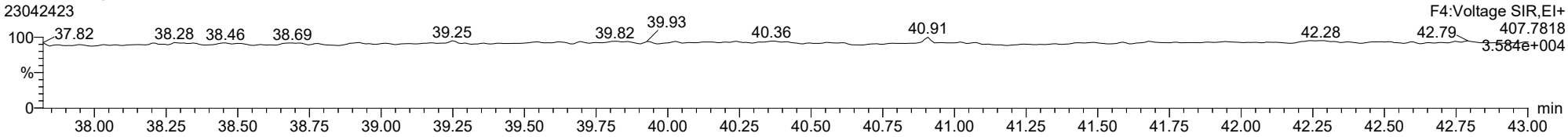


FUNCTION4 NCDPE

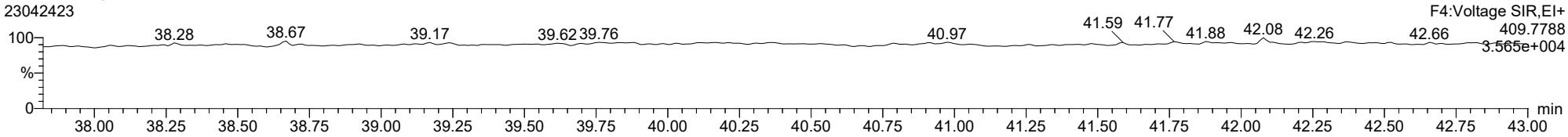


ID: BLC0379-BLK1, Name: 23042423, Date: 25-Apr-2023, Time: 08:36:28, Conditions: AUTOSPEC01, User: pk

1234789-HpCDF



1234789-HpCDF



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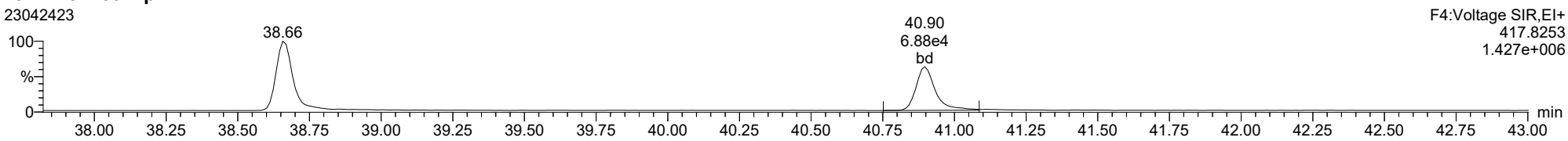

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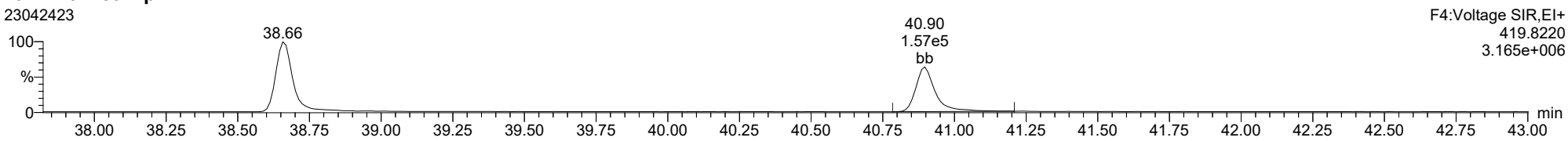
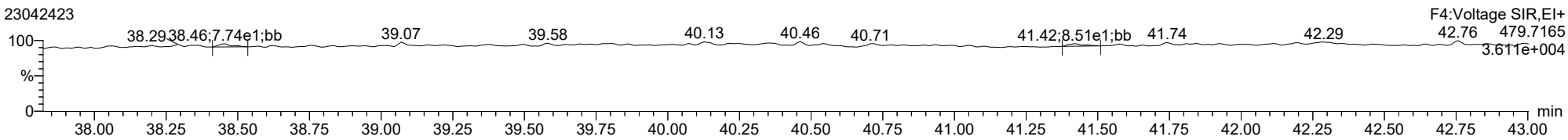
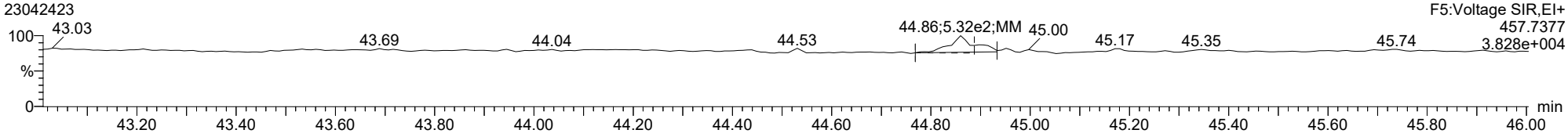


FUNCTION4 NCDPE

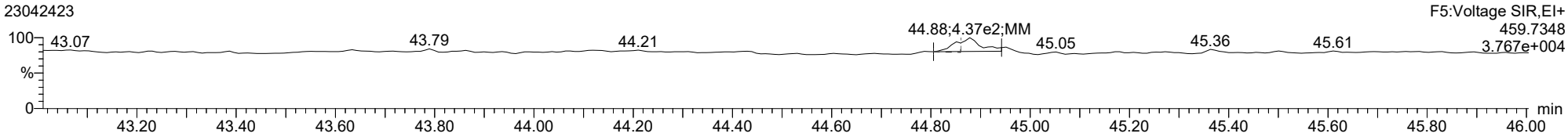


ID: BLC0379-BLK1, Name: 23042423, Date: 25-Apr-2023, Time: 08:36:28, Conditions: AUTOSPEC01, User: pk

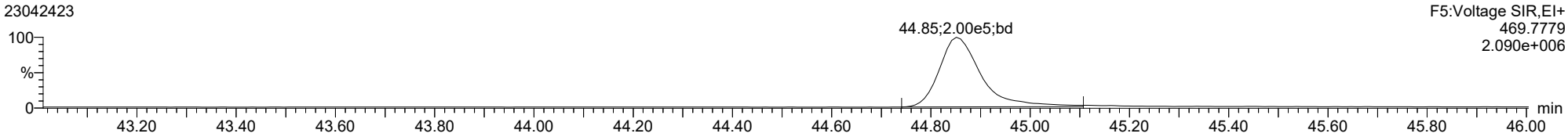
OCDD



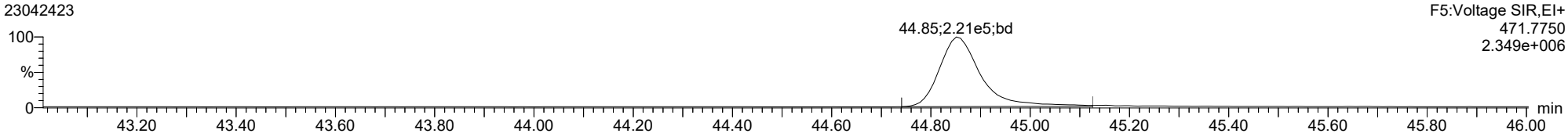
OCDD



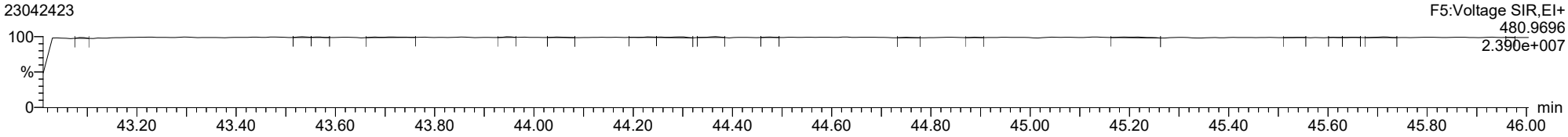
13C-OCDD



13C-OCDD

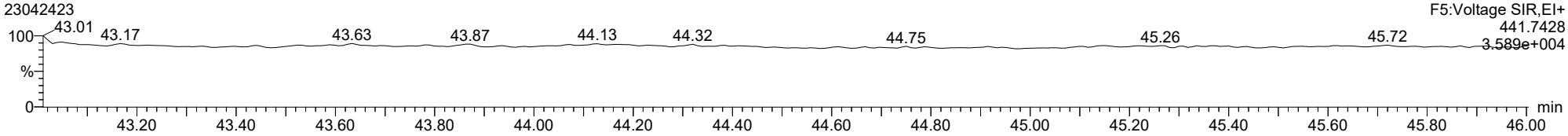


FUNCTION5 PFK

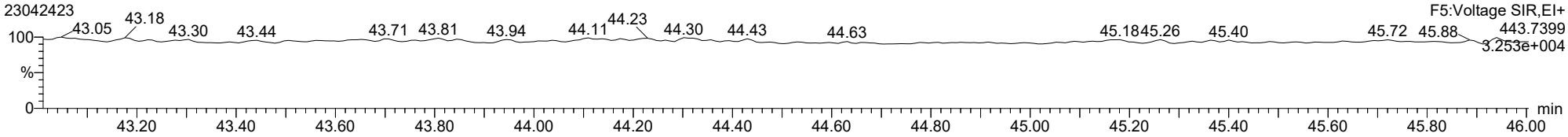


ID: BLC0379-BLK1, Name: 23042423, Date: 25-Apr-2023, Time: 08:36:28, Conditions: AUTOSPEC01, User: pk

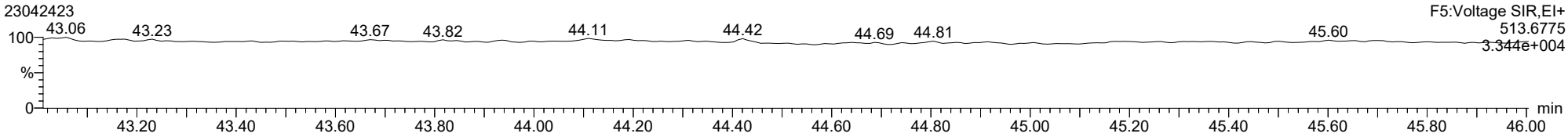
OCDF



OCDF

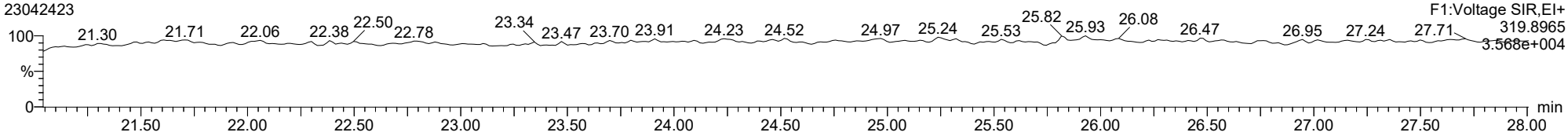


FUNCTION5 DCDPE

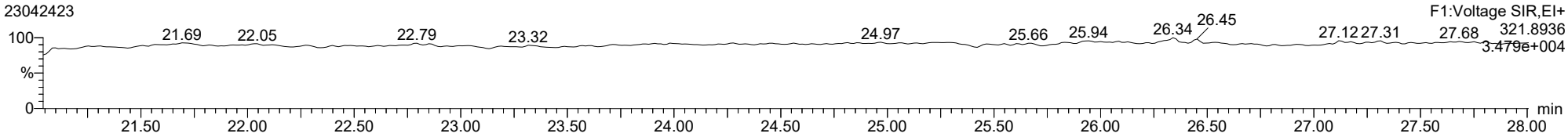


ID: BLC0379-BLK1, Name: 23042423, Date: 25-Apr-2023, Time: 08:36:28, Conditions: AUTOSPEC01, User: pk

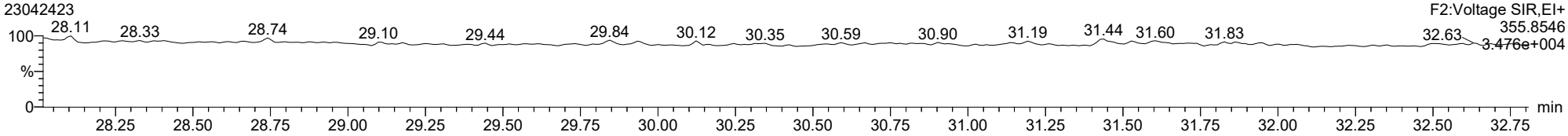
Total-tetradioxins



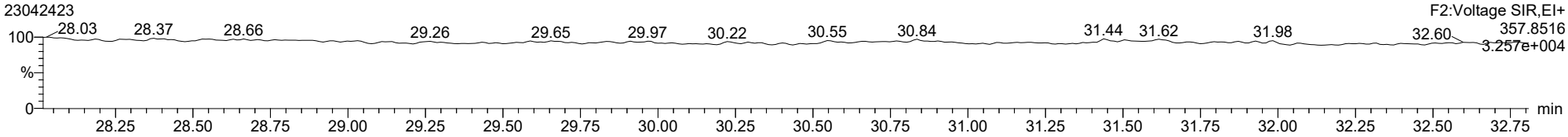
Total-tetradioxins



Total-pentadioxins

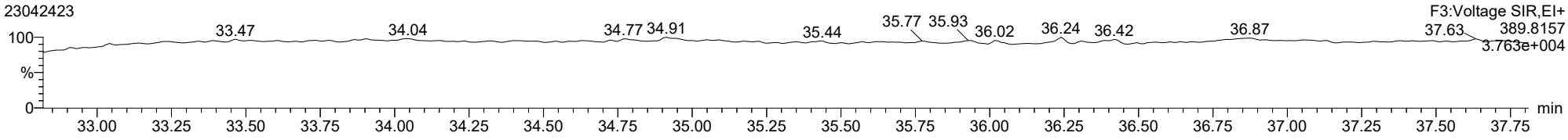


Total-pentadioxins

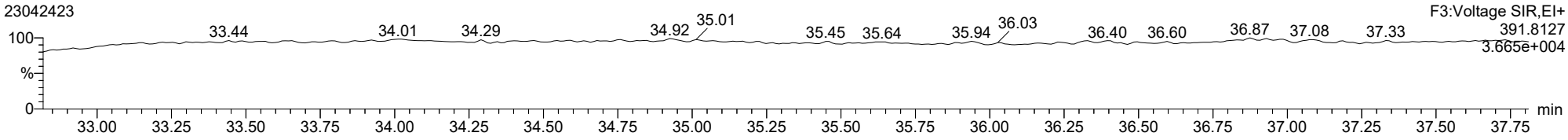


ID: BLC0379-BLK1, Name: 23042423, Date: 25-Apr-2023, Time: 08:36:28, Conditions: AUTOSPEC01, User: pk

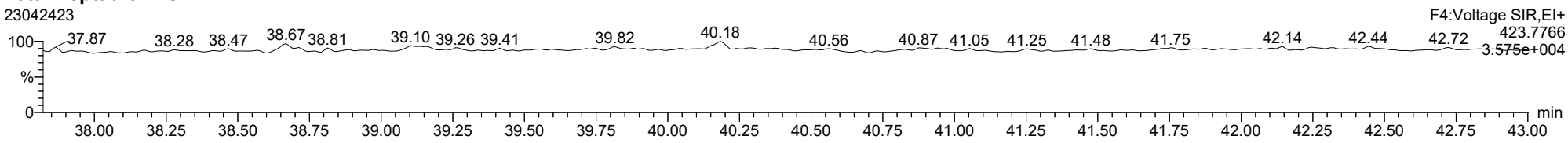
Total-hexadioxins



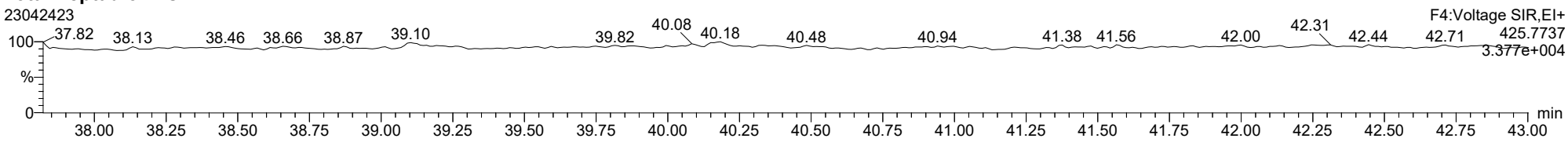
Total-hexadioxins



Total-heptadioxins

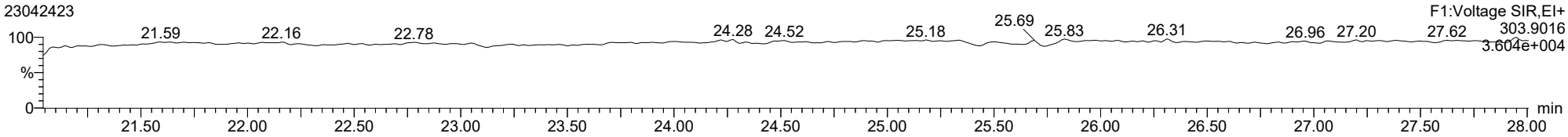


Total-heptadioxins



ID: BLC0379-BLK1, Name: 23042423, Date: 25-Apr-2023, Time: 08:36:28, Conditions: AUTOSPEC01, User: pk

Total-tetrafurans



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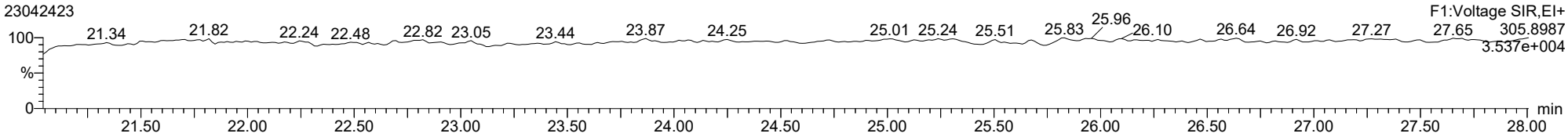
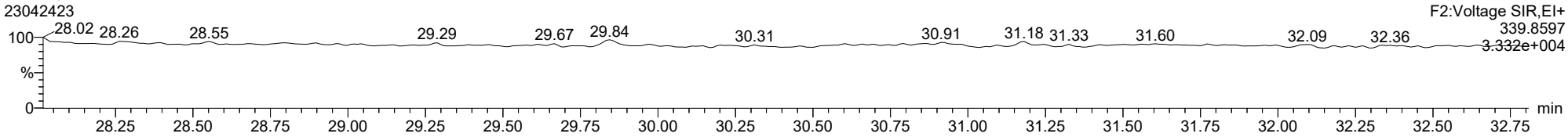
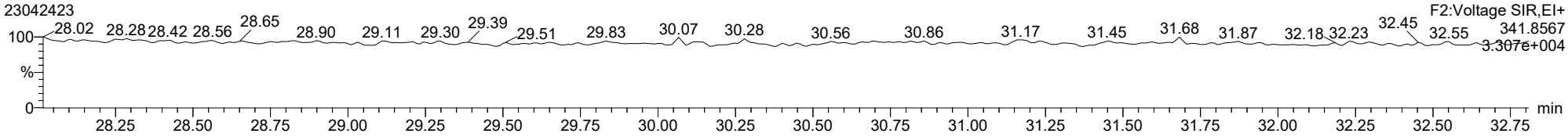


Total-pentafurans

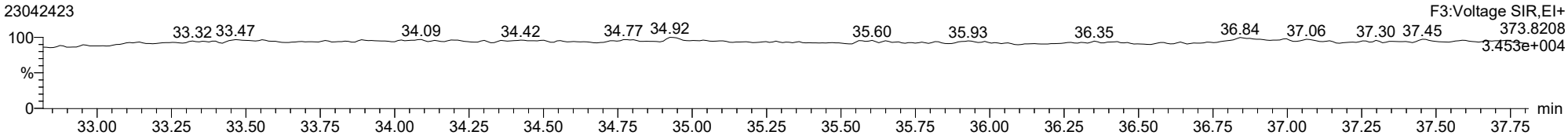


Total-pentafurans

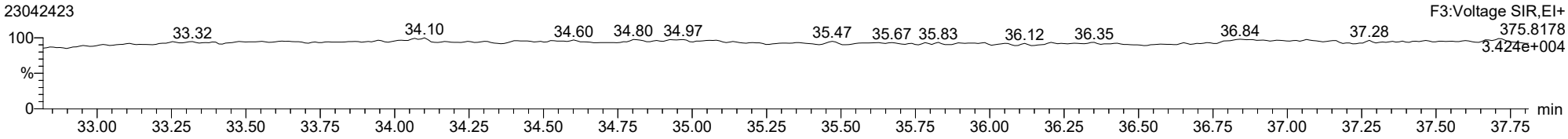


ID: BLC0379-BLK1, Name: 23042423, Date: 25-Apr-2023, Time: 08:36:28, Conditions: AUTOSPEC01, User: pk

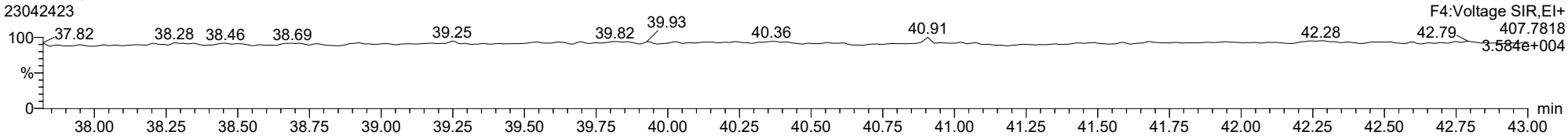
Total-hexafurans



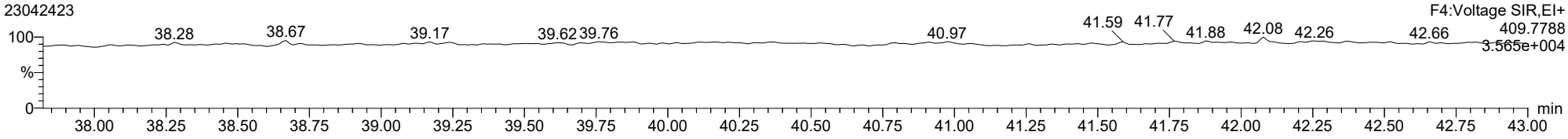
Total-hexafurans



Total-heptafurans



Total-heptafurans



LCS RECOVERY
EPA 1613B

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Matrix:	Solid	Analyzed:	04/25/23 09:25
Batch:	BLC0379	Laboratory ID:	BLC0379-BS1
Preparation:	EPA 8290	Sequence Name:	LCS
Initial/Final:	10.01 g / 20 uL		

COMPOUND	SPIKE ADDED (ng/kg wet)	LCS CONCENTRATION (ng/kg wet)	Q	LCS % REC. #	QC LIMITS REC.
2,3,7,8-TCDF	20.0	21.3		107	75 - 158
2,3,7,8-TCDD	20.0	20.8		104	67 - 158
1,2,3,7,8-PeCDF	99.9	123		123	80 - 134
2,3,4,7,8-PeCDF	99.9	118		118	68 - 160
1,2,3,7,8-PeCDD	99.9	127	B	127	70 - 142
1,2,3,4,7,8-HxCDF	99.9	105		105	72 - 134
1,2,3,6,7,8-HxCDF	99.9	111		111	84 - 130
2,3,4,6,7,8-HxCDF	99.9	105		105	70 - 156
1,2,3,7,8,9-HxCDF	99.9	103		103	78 - 130
1,2,3,4,7,8-HxCDD	99.9	103		103	70 - 164
1,2,3,6,7,8-HxCDD	99.9	115		115	76 - 134
1,2,3,7,8,9-HxCDD	99.9	120		120	64 - 162
1,2,3,4,6,7,8-HpCDF	99.9	101		101	82 - 122
1,2,3,4,7,8,9-HpCDF	99.9	104		104	78 - 138
1,2,3,4,6,7,8-HpCDD	99.9	109		109	70 - 140
OCDF	200	209		105	63 - 170
OCDD	200	200	B	100	78 - 144

* Indicates values outside of QC limits

Dataset: T:\Autospec\Processed Data Batch\230424D2.qld
Last Altered: Tuesday, April 25, 2023 14:48:36 Pacific Daylight Time
Printed: Tuesday, April 25, 2023 14:50:19 Pacific Daylight Time

Method: T:\Autospec\Methods\Dioxin230424.mdb 25 Apr 2023 07:59:40
Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 11:57:27

ID: BLC0379-BS1, Name: 23042424, Date: 25-Apr-2023, Time: 09:25:20, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	25.690	1.001	8.077e3	1.157e4	0.702	0.698	0.770	580	1053	1.16e5	1.85e5	200.3	175.3	NO	bb	bb	10.683
12378-PeCDF	29.844	1.000	1.113e5	7.219e4	0.679	1.541	1.550	1460	1974	1.70e6	1.09e6	1163.6	551.0	NO	bb	bb	61.576
23478-PeCDF	31.181	1.000	1.102e5	7.172e4	0.786	1.537	1.550	1460	1974	1.69e6	1.09e6	1157.1	554.4	NO	bb	bb	59.191
123478-HxCDF	34.802	1.000	1.127e5	8.914e4	1.166	1.265	1.240	2433	2039	1.72e6	1.35e6	707.0	662.1	NO	bd	bd	52.559
234678-HxCDF	35.804	1.000	1.182e5	9.515e4	1.140	1.242	1.240	2433	2039	1.69e6	1.40e6	693.3	685.4	NO	bd	bd	52.713
123678-HxCDF	34.947	1.001	1.300e5	9.843e4	1.091	1.321	1.240	2433	2039	1.85e6	1.46e6	760.1	716.2	NO	dd	db	55.696
123789-HxCDF	36.841	1.000	9.497e4	7.102e4	1.137	1.337	1.240	2433	2039	1.28e6	1.01e6	528.0	494.0	NO	bd	bb	51.536
1234678-HpCDF	38.679	1.000	8.678e4	8.308e4	1.003	1.044	1.050	1781	1866	1.42e6	1.38e6	794.6	740.5	NO	bb	bb	50.488
1234789-HpCDF	40.918	1.001	6.500e4	6.241e4	0.953	1.041	1.050	1781	1866	9.15e5	8.53e5	513.5	457.2	NO	bb	bb	52.003
OCDF	45.116	1.006	9.028e4	1.085e5	0.778	0.832	0.890	861	1423	1.03e6	1.17e6	1198.8	820.6	NO	bb	bd	104.812
2378-TCDD	26.339	1.001	1.208e4	1.591e4	1.149	0.759	0.770	956	575	1.83e5	2.28e5	191.4	395.9	NO	bb	bb	10.393
12378-PeCDD	31.437	1.000	9.045e4	5.884e4	1.022	1.537	1.550	1306	840	1.41e6	9.19e5	1081.5	1094.3	NO	bb	bb	63.723
123478-HxCDD	35.927	1.000	8.203e4	6.729e4	0.996	1.219	1.240	1565	1628	1.30e6	1.08e6	831.8	663.0	NO	bd	bd	51.442
123678-HxCDD	36.038	1.000	9.428e4	7.859e4	1.001	1.200	1.240	1565	1628	1.41e6	1.15e6	900.7	707.6	NO	db	db	57.626
123789-HxCDD	36.428	1.011	8.741e4	7.323e4	0.907	1.194	1.240	1565	1628	1.38e6	1.08e6	880.7	663.0	NO	bb	bb	59.901
1234678-HpCDD	40.172	1.000	7.263e4	7.180e4	1.039	1.012	1.050	1457	1446	1.08e6	1.06e6	743.7	732.1	NO	bb	bb	54.657
OCDD	44.878	1.000	1.074e5	1.177e5	0.920	0.912	0.890	1636	1655	1.27e6	1.42e6	774.5	857.1	NO	bb	bb	100.319
13C-2378-TCDF	25.675	1.007	1.131e5	1.491e5	1.620	0.759	0.770	994	1491	1.56e6	2.07e6	1565.9	1384.9	NO	bb	bb	33.769
13C-12378-PeCDF	29.833	1.170	2.711e5	1.675e5	1.240	1.618	1.550	2454	2022	3.79e6	2.40e6	1544.6	1186.6	NO	bd	bb	73.795
13C-23478-PeCDF	31.170	1.222	2.378e5	1.531e5	1.118	1.553	1.550	2454	2022	3.50e6	2.25e6	1428.1	1114.6	NO	bb	bb	72.985
13C-123478-HxCDF	34.791	0.955	1.110e5	2.184e5	1.168	0.508	0.510	1995	3145	1.73e6	3.35e6	867.9	1065.2	NO	bd	bd	75.090
13C-123678-HxCDF	34.924	0.959	1.297e5	2.463e5	1.386	0.526	0.510	1995	3145	1.89e6	3.65e6	947.3	1160.8	NO	db	db	72.228
13C-234678-HxCDF	35.793	0.983	1.176e5	2.375e5	1.129	0.495	0.510	1995	3145	1.78e6	3.51e6	892.3	1117.0	NO	bb	bd	83.746
13C-123789-HxCDF	36.829	1.011	9.643e4	1.868e5	0.932	0.516	0.510	1995	3145	1.39e6	2.67e6	698.1	848.9	NO	bb	bb	80.961
13C-1234678-HpCDF	38.668	1.062	1.015e5	2.339e5	0.895	0.434	0.440	2009	1963	1.64e6	3.63e6	816.9	1847.7	NO	bb	bb	99.790
13C-1234789-HpCDF	40.896	1.123	7.705e4	1.800e5	0.770	0.428	0.440	2009	1963	9.81e5	2.20e6	488.3	1120.9	NO	bb	bb	88.943
13C-1234-TCDD	25.506	0.000	2.133e5	2.658e5	1.000	0.803	0.770	1764	1140	3.12e6	3.96e6	1771.3	3476.7	NO	bb	bb	100.000
13C-2378-TCDD	26.325	1.032	1.029e5	1.317e5	1.152	0.781	0.770	1764	1140	1.54e6	1.95e6	871.8	1708.3	NO	bb	bb	42.467
13C-12378-PeCDD	31.426	1.232	1.438e5	8.543e4	0.829	1.684	1.550	885	887	1.98e6	1.24e6	2240.7	1401.7	NO	bb	bb	57.729
13C-123478-HxCDD	35.916	0.986	1.632e5	1.284e5	0.995	1.271	1.240	2029	2101	2.56e6	2.01e6	1260.4	956.5	NO	bd	bd	78.040
13C-123678-HxCDD	36.027	0.989	1.673e5	1.325e5	1.157	1.263	1.240	2029	2101	2.68e6	2.06e6	1319.2	979.1	NO	db	db	69.008
13C-1234678-HpCDD	40.160	1.103	1.345e5	1.198e5	0.840	1.123	1.050	1435	1508	1.85e6	1.67e6	1288.6	1106.9	NO	bb	bb	80.625
13C-OCDD	44.859	1.232	2.317e5	2.560e5	0.767	0.905	0.890	1810	1730	2.46e6	2.73e6	1360.8	1578.8	NO	bd	bd	169.244
13C-123789-HxCDD	36.417	0.000	2.071e5	1.684e5	1.000	1.229	1.240	2029	2101	3.16e6	2.54e6	1559.2	1207.7	NO	bb	bb	100.000
37CL-2378-TCDD	26.339	1.033	1.006e5		1.288			1073		1.51e6		1406.1			bb		16.297

Dataset: T:\Autospec\Processed Data Batch\230424D2.qld
Last Altered: Tuesday, April 25, 2023 14:48:36 Pacific Daylight Time
Printed: Tuesday, April 25, 2023 14:50:19 Pacific Daylight Time

ID: BLC0379-BS1, Name: 23042424, Date: 25-Apr-2023, Time: 09:25:20, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF					0.802		0.770	580	1053								
1289-TCDF					0.678		0.770	580	1053								
13468-PECDF					1.246		1.550	707	1102								
12389-PECDF	32.228	1.080	1.027e3	8.069e2	0.496	1.273	1.550	1460	1974	1.47e4	1.19e4	10.1	6.0	YES	bb	bb	0.842
123468-HXCDF					1.169		1.240	2433	2039								
1368-TCDD					1.015		0.770	956	575								
1289-TCDD					0.909		0.770	956	575								
12479-PECDD					2.301		1.550	1306	840								
12389-PECDD	31.816	1.012	1.222e2	1.714e2	1.184	0.713	1.550	1306	840	3.38e3	2.80e3	2.6	3.3	YES	bd	db	0.108
124679-HXCDD					1.115		1.240	1565	1628								
1234679-HPCDD	39.125	0.974	9.622e2	1.134e3	1.137	0.849	1.050	1457	1446	1.58e4	1.97e4	10.8	13.6	YES	bb	bb	0.725
Total-tetrafurans			8.077e3		0.727			580		1.16e5							10.683
Total-penta1			0.000e0					707		0.00e0							
Total-pentafurans			2.215e5		0.654			1460		3.39e6							120.767
Total-hexafurans			4.559e5		1.141			2433		6.54e6							212.504
Total-heptafurans			1.518e5		0.978			1781		2.33e6							102.491
Total-Furans			9.275e5		0.922			580		1.34e7							551.257
Total-tetradioxins			1.208e4		1.024			956		1.83e5							10.393
Total-pentadioxins			9.045e4		1.502			1306		1.41e6							63.723
Total-hexadioxins			2.637e5		1.005			1565		4.09e6							168.969
Total-heptadioxins			7.263e4		1.088			1457		1.08e6							54.657
Total-Dioxins			5.463e5		1.130			956		8.04e6							398.062
Total-TEQ			1.474e6					956		2.14e7							949.319
FUNCTION1 PFK			1.040e8					423310		4.41e8							
FUNCTION2 PFK			2.935e5					282257		8.27e6							0.000
FUNCTION3 PFK			0.000e0					305364		0.00e0							
FUNCTION4 PFK			6.390e4					229584		1.77e6							
FUNCTION5 PFK			9.135e4					160627		3.09e6							
FUNCTION1 HXCD...			4.779e2					616		6.57e3							0.000
FUNCTION1 HPCD...																	
FUNCTION2 HPCD...			8.250e2					1145		1.99e4							0.000
FUNCTION3 OCDPE			1.529e2					588		3.50e3							0.000
FUNCTION4 NCDPE			6.400e2					779		1.09e4							0.000
FUNCTION5 DCDPE			0.000e0					537		0.00e0							

Method: T:\Autospec\Methods\Dioxin230424.mdb 25 Apr 2023 07:59:40
Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 11:57:27

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TF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	25.69	8.077e3	1.157e4	0.702	0.70	0.77	200.3	YES	NO	bb	bb	10.683

PP

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

PF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12378-PeCDF	29.84	1.113e5	7.219e4	0.679	1.54	1.55	1163.6	YES	NO	bb	bb	61.576
2	23478-PeCDF	31.18	1.102e5	7.172e4	0.786	1.54	1.55	1157.1	YES	NO	bb	bb	59.191

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDF	36.84	9.497e4	7.102e4	1.137	1.34	1.24	528.0	YES	NO	bd	bb	51.536
2	234678-HxCDF	35.80	1.182e5	9.515e4	1.140	1.24	1.24	693.3	YES	NO	bd	bd	52.713
3	123678-HxCDF	34.95	1.300e5	9.843e4	1.091	1.32	1.24	760.1	YES	NO	dd	db	55.696
4	123478-HxCDF	34.80	1.127e5	8.914e4	1.166	1.26	1.24	707.0	YES	NO	bd	bd	52.559

HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234789-HpCDF	40.92	6.500e4	6.241e4	0.953	1.04	1.05	513.5	YES	NO	bb	bb	52.003
2	1234678-HpCDF	38.68	8.678e4	8.308e4	1.003	1.04	1.05	794.6	YES	NO	bb	bb	50.488

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Furans,TF,PP,PF,HF,HPF,OF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12378-PeCDF	29.84	1.113e5	7.219e4	0.679	1.54	1.55	1163.6	YES	NO	bb	bb	61.576
2	2378-TCDF	25.69	8.077e3	1.157e4	0.702	0.70	0.77	200.3	YES	NO	bb	bb	10.683
3	23478-PeCDF	31.18	1.102e5	7.172e4	0.786	1.54	1.55	1157.1	YES	NO	bb	bb	59.191
4	123789-HxCDF	36.84	9.497e4	7.102e4	1.137	1.34	1.24	528.0	YES	NO	bd	bb	51.536
5	234678-HxCDF	35.80	1.182e5	9.515e4	1.140	1.24	1.24	693.3	YES	NO	bd	bd	52.713
6	123678-HxCDF	34.95	1.300e5	9.843e4	1.091	1.32	1.24	760.1	YES	NO	dd	db	55.696
7	123478-HxCDF	34.80	1.127e5	8.914e4	1.166	1.26	1.24	707.0	YES	NO	bd	bd	52.559
8	1234789-HpCDF	40.92	6.500e4	6.241e4	0.953	1.04	1.05	513.5	YES	NO	bb	bb	52.003
9	1234678-HpCDF	38.68	8.678e4	8.308e4	1.003	1.04	1.05	794.6	YES	NO	bb	bb	50.488
10	OCDF	45.12	9.028e4	1.085e5	0.778	0.83	0.89	1198.8	YES	NO	bb	bd	104.812

TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDD	26.34	1.208e4	1.591e4	1.149	0.76	0.77	191.4	YES	NO	bb	bb	10.393

PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12378-PeCDD	31.44	9.045e4	5.884e4	1.022	1.54	1.55	1081.5	YES	NO	bb	bb	63.723

HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDD	36.43	8.741e4	7.323e4	0.907	1.19	1.24	880.7	YES	NO	bb	bb	59.901
2	123678-HxCDD	36.04	9.428e4	7.859e4	1.001	1.20	1.24	900.7	YES	NO	db	db	57.626
3	123478-HxCDD	35.93	8.203e4	6.729e4	0.996	1.22	1.24	831.8	YES	NO	bd	bd	51.442

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	40.17	7.263e4	7.180e4	1.039	1.01	1.05	743.7	YES	NO	bb	bb	54.657

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Dioxins,TD,PD,HD,HPD,OD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12378-PeCDD	31.44	9.045e4	5.884e4	1.022	1.54	1.55	1081.5	YES	NO	bb	bb	63.723
2	2378-TCDD	26.34	1.208e4	1.591e4	1.149	0.76	0.77	191.4	YES	NO	bb	bb	10.393
3	123789-HxCDD	36.43	8.741e4	7.323e4	0.907	1.19	1.24	880.7	YES	NO	bb	bb	59.901
4	123678-HxCDD	36.04	9.428e4	7.859e4	1.001	1.20	1.24	900.7	YES	NO	db	db	57.626
5	123478-HxCDD	35.93	8.203e4	6.729e4	0.996	1.22	1.24	831.8	YES	NO	bd	bd	51.442
6	1234678-HpCDD	40.17	7.263e4	7.180e4	1.039	1.01	1.05	743.7	YES	NO	bb	bb	54.657
7	OCDD	44.88	1.074e5	1.177e5	0.920	0.91	0.89	774.5	YES	NO	bb	bb	100.319

TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12378-PeCDF	29.84	1.113e5	7.219e4	0.679	1.54	1.55	1163.6	YES	NO	bb	bb	61.576
2	2378-TCDF	25.69	8.077e3	1.157e4	0.702	0.70	0.77	200.3	YES	NO	bb	bb	10.683
3	23478-PeCDF	31.18	1.102e5	7.172e4	0.786	1.54	1.55	1157.1	YES	NO	bb	bb	59.191
4	123789-HxCDF	36.84	9.497e4	7.102e4	1.137	1.34	1.24	528.0	YES	NO	bd	bb	51.536
5	234678-HxCDF	35.80	1.182e5	9.515e4	1.140	1.24	1.24	693.3	YES	NO	bd	bd	52.713
6	123678-HxCDF	34.95	1.300e5	9.843e4	1.091	1.32	1.24	760.1	YES	NO	dd	db	55.696
7	123478-HxCDF	34.80	1.127e5	8.914e4	1.166	1.26	1.24	707.0	YES	NO	bd	bd	52.559
8	1234789-HpCDF	40.92	6.500e4	6.241e4	0.953	1.04	1.05	513.5	YES	NO	bb	bb	52.003
9	1234678-HpCDF	38.68	8.678e4	8.308e4	1.003	1.04	1.05	794.6	YES	NO	bb	bb	50.488
10	OCDF	45.12	9.028e4	1.085e5	0.778	0.83	0.89	1198.8	YES	NO	bb	bd	104.812
11	12378-PeCDD	31.44	9.045e4	5.884e4	1.022	1.54	1.55	1081.5	YES	NO	bb	bb	63.723
12	2378-TCDD	26.34	1.208e4	1.591e4	1.149	0.76	0.77	191.4	YES	NO	bb	bb	10.393
13	123789-HxCDD	36.43	8.741e4	7.323e4	0.907	1.19	1.24	880.7	YES	NO	bb	bb	59.901
14	123678-HxCDD	36.04	9.428e4	7.859e4	1.001	1.20	1.24	900.7	YES	NO	db	db	57.626
15	123478-HxCDD	35.93	8.203e4	6.729e4	0.996	1.22	1.24	831.8	YES	NO	bd	bd	51.442
16	1234678-HpCDD	40.17	7.263e4	7.180e4	1.039	1.01	1.05	743.7	YES	NO	bb	bb	54.657
17	OCDD	44.88	1.074e5	1.177e5	0.920	0.91	0.89	774.5	YES	NO	bb	bb	100.319

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PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	25.10	7.930e6					54.3	YES		dd		
2	FUNCTION1 PFK	24.70	3.738e6					54.3	YES		dd		
3	FUNCTION1 PFK	24.47	6.203e6					57.6	YES		dd		
4	FUNCTION1 PFK	24.22	4.215e6					61.5	YES		dd		
5	FUNCTION1 PFK	24.04	5.222e6					64.6	YES		dd		
6	FUNCTION1 PFK	23.85	1.316e7					65.6	YES		dd		
7	FUNCTION1 PFK	23.33	7.978e6					66.5	YES		bd		
8	FUNCTION1 PFK	23.02	3.244e6					64.3	YES		db		
9	FUNCTION1 PFK	22.86	4.626e6					61.8	YES		dd		
10	FUNCTION1 PFK	22.75	4.601e6					58.0	YES		dd		
11	FUNCTION1 PFK	22.47	3.502e6					47.3	YES		dd		
12	FUNCTION1 PFK	22.17	6.170e6					41.3	YES		bd		
13	FUNCTION1 PFK	21.81	9.387e5					25.1	YES		db		
14	FUNCTION1 PFK	21.64	3.173e6					23.3	YES		dd		
15	FUNCTION1 PFK	21.20	1.642e5					5.6	YES		bd		
16	FUNCTION1 PFK	27.65	1.951e5					3.7	YES		bb		
17	FUNCTION1 PFK	27.47	6.687e5					14.9	YES		bb		
18	FUNCTION1 PFK	27.29	1.089e6					20.2	YES		db		
19	FUNCTION1 PFK	27.03	2.006e6					24.5	YES		dd		
20	FUNCTION1 PFK	26.78	1.968e6					29.2	YES		dd		
21	FUNCTION1 PFK	26.42	1.549e7					37.4	YES		bd		
22	FUNCTION1 PFK	25.68	1.916e5					10.7	YES		db		
23	FUNCTION1 PFK	25.51	3.187e6					46.0	YES		dd		
24	FUNCTION1 PFK	25.31	2.463e6					52.0	YES		dd		
25	FUNCTION1 PFK	25.27	1.873e6					51.4	YES		dd		

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PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	28.72	2.057e4					2.4	NO		dd		0.000
2	FUNCTION2 PFK	28.67	1.241e4					1.7	NO		bd		0.000
3	FUNCTION2 PFK	28.56	1.029e4					1.0	NO		bb		0.000
4	FUNCTION2 PFK	28.20	6.596e3					1.3	NO		db		0.000
5	FUNCTION2 PFK	28.15	5.950e4					5.1	YES		bd		0.000
6	FUNCTION2 PFK	32.36	1.146e4					1.0	NO		bb		0.000
7	FUNCTION2 PFK	32.26	3.216e3					0.6	NO		bb		0.000
8	FUNCTION2 PFK	32.03	2.462e3					0.5	NO		bb		0.000
9	FUNCTION2 PFK	31.77	2.105e4					1.5	NO		bb		0.000
10	FUNCTION2 PFK	31.59	1.154e4					1.6	NO		bb		0.000
11	FUNCTION2 PFK	30.81	5.371e3					0.8	NO		bb		0.000
12	FUNCTION2 PFK	30.78	1.382e4					1.2	NO		bb		0.000
13	FUNCTION2 PFK	29.97	4.415e3					0.8	NO		bb		0.000
14	FUNCTION2 PFK	29.92	2.333e4					1.3	NO		bb		0.000
15	FUNCTION2 PFK	29.83	1.654e3					0.5	NO		bb		0.000
16	FUNCTION2 PFK	29.79	7.516e3					1.2	NO		db		0.000
17	FUNCTION2 PFK	29.74	1.210e4					1.5	NO		bd		0.000
18	FUNCTION2 PFK	29.31	1.309e3					0.4	NO		bb		0.000
19	FUNCTION2 PFK	29.22	1.682e3					0.5	NO		bb		0.000
20	FUNCTION2 PFK	28.91	9.042e3					1.3	NO		db		0.000
21	FUNCTION2 PFK	28.82	4.870e4					2.3	NO		dd		0.000
22	FUNCTION2 PFK	32.63	5.479e3					0.7	NO		bb		0.000

PFK3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

PFK4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	41.48	5.749e3					1.2	NO		bb		
2	FUNCTION4 PFK	41.31	2.549e4					2.2	NO		bb		
3	FUNCTION4 PFK	41.01	2.177e4					2.3	NO		bb		
4	FUNCTION4 PFK	37.90	1.089e4					1.9	NO		bb		

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PFK5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	44.60	9.197e3					1.8	NO		bd		
2	FUNCTION5 PFK	44.14	1.158e4					2.0	NO		bb		
3	FUNCTION5 PFK	44.10	9.330e2					0.6	NO		bb		
4	FUNCTION5 PFK	43.66	7.086e2					0.5	NO		bb		
5	FUNCTION5 PFK	43.44	2.446e3					0.8	NO		bb		
6	FUNCTION5 PFK	43.18	4.878e3					1.5	NO		bb		
7	FUNCTION5 PFK	43.10	1.504e4					1.9	NO		db		
8	FUNCTION5 PFK	43.07	2.699e3					1.4	NO		bd		
9	FUNCTION5 PFK	45.77	1.093e4					1.6	NO		bb		
10	FUNCTION5 PFK	45.69	5.426e3					1.7	NO		db		
11	FUNCTION5 PFK	45.66	7.672e3					1.9	NO		bd		
12	FUNCTION5 PFK	45.35	2.587e3					0.8	NO		bb		
13	FUNCTION5 PFK	44.68	1.726e4					2.8	NO		db		

ETHERS1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	25.49	1.688e2					2.6	NO		bb		0.000
2	FUNCTION1 HXCD...	25.36	8.568e1					2.6	NO		db		0.000
3	FUNCTION1 HXCD...	25.29	1.420e2					3.7	YES		bd		0.000
4	FUNCTION1 HXCD...	23.57	8.140e1					1.6	NO		bb		0.000

ETHERS2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

ID: BLC0379-BS1, Name: 23042424, Date: 25-Apr-2023, Time: 09:25:20, Conditions: AUTOSPEC01, User: pk

ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	30.65	1.027e2					1.3	NO		bb		0.000
2	FUNCTION2 HPCD...	29.24	7.159e1					2.0	NO		bb		0.000
3	FUNCTION2 HPCD...	29.15	7.017e1					1.8	NO		bb		0.000
4	FUNCTION2 HPCD...	28.91	9.351e1					2.7	NO		bb		0.000
5	FUNCTION2 HPCD...	28.61	7.254e1					1.0	NO		bb		0.000
6	FUNCTION2 HPCD...	32.38	1.053e2					3.2	YES		bb		0.000
7	FUNCTION2 HPCD...	32.01	1.111e2					1.4	NO		db		0.000
8	FUNCTION2 HPCD...	31.95	7.612e1					1.6	NO		bd		0.000
9	FUNCTION2 HPCD...	30.77	1.219e2					2.3	NO		bb		0.000

ETHERS4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	36.40	8.101e1					3.1	YES		bb		0.000
2	FUNCTION3 OCDPE	34.08	7.192e1					2.9	NO		bb		0.000

ETHERS5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	42.69	1.007e2					2.3	NO		bb		0.000
2	FUNCTION4 NCDPE	41.15	1.348e2					2.3	NO		bb		0.000
3	FUNCTION4 NCDPE	39.63	1.074e2					2.3	NO		bb		0.000
4	FUNCTION4 NCDPE	38.98	9.410e1					2.7	NO		bb		0.000
5	FUNCTION4 NCDPE	38.75	8.262e1					2.1	NO		db		0.000
6	FUNCTION4 NCDPE	38.67	1.203e2					2.3	NO		bd		0.000

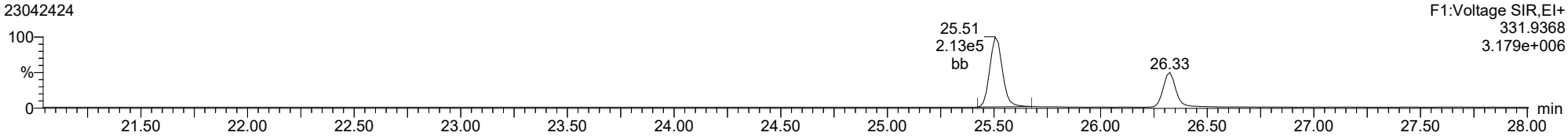
ETHERS6

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

Method: T:\Autospec\Methods\Dioxin230424.mdb 25 Apr 2023 07:59:40
Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 11:57:27

ID: BLC0379-BS1, Name: 23042424, Date: 25-Apr-2023, Time: 09:25:20, Conditions: AUTOSPEC01, User: pk

13C-1234-TCDD



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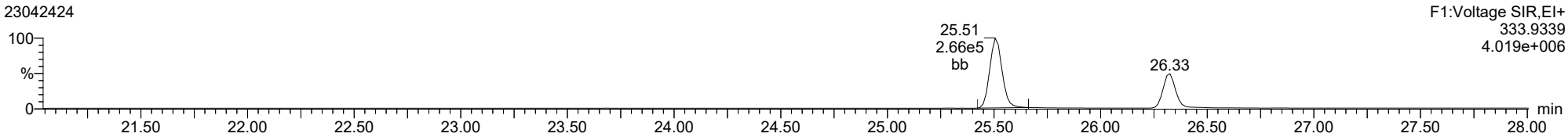

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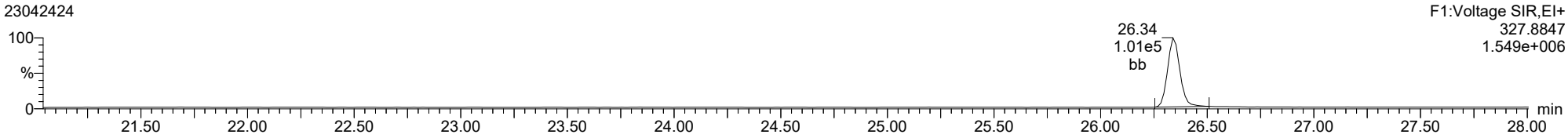

ID: BLC0379-BS1, Name: 23042424, Date: 25-Apr-2023, Time: 09:25:20, Conditions: AUTOSPEC01, User: pk

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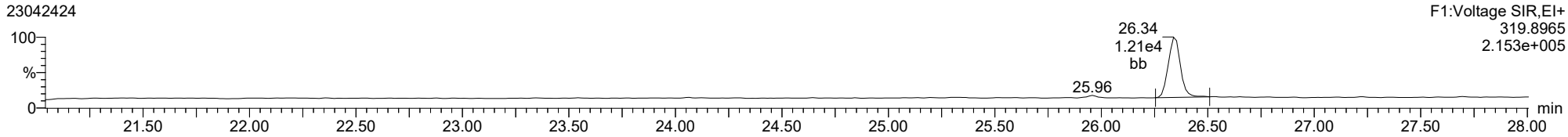

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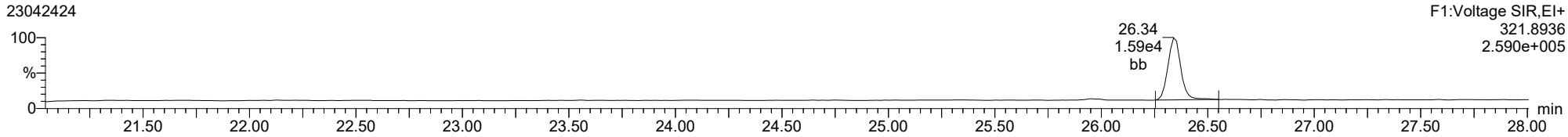

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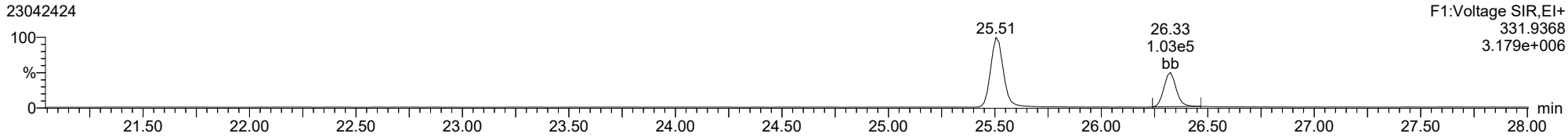

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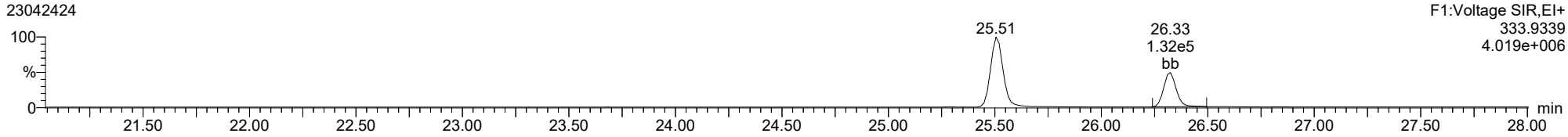
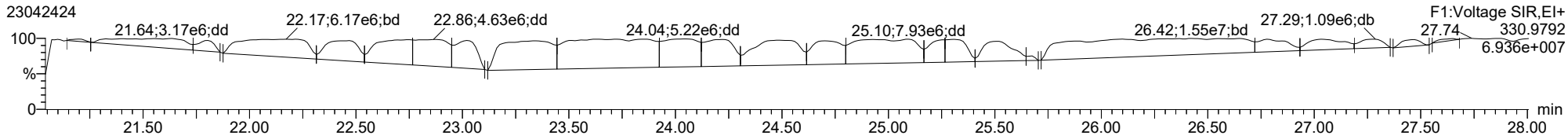


FUNCTION1 PFK



ID: BLC0379-BS1, Name: 23042424, Date: 25-Apr-2023, Time: 09:25:20, Conditions: AUTOSPEC01, User: pk

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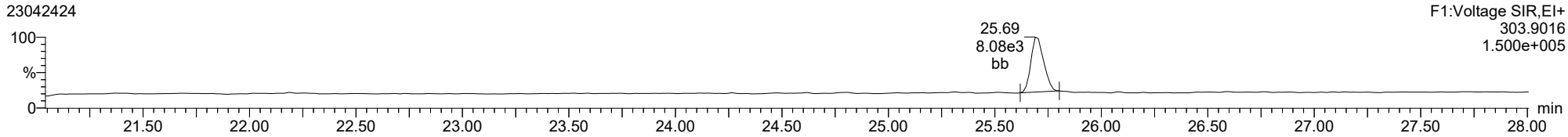

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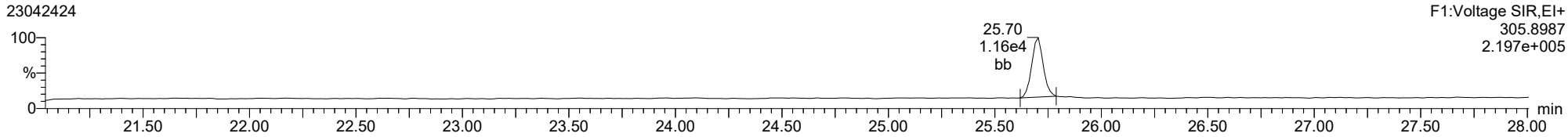

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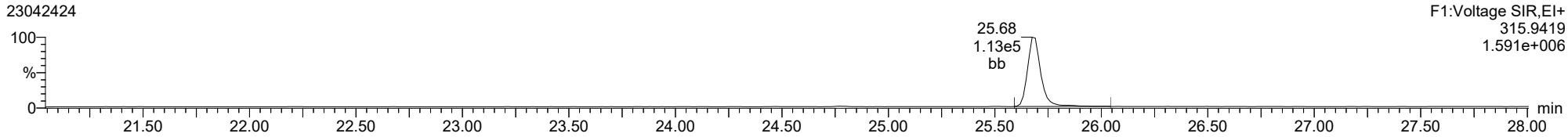

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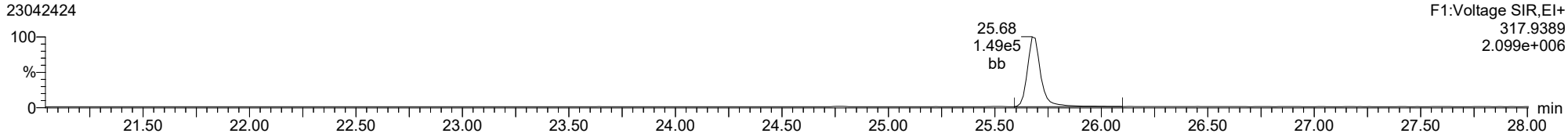

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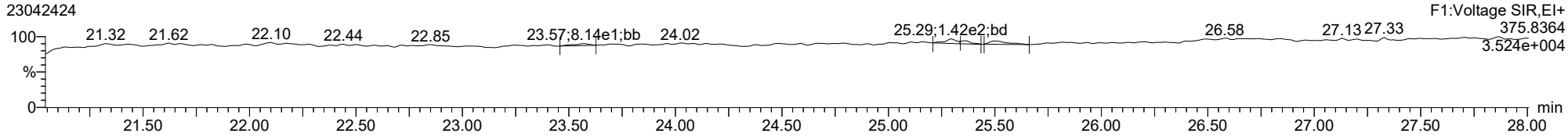
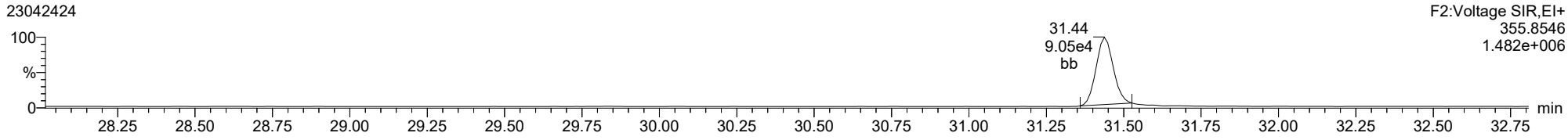


ID: BLC0379-BS1, Name: 23042424, Date: 25-Apr-2023, Time: 09:25:20, Conditions: AUTOSPEC01, User: pk

12378-PeCDD



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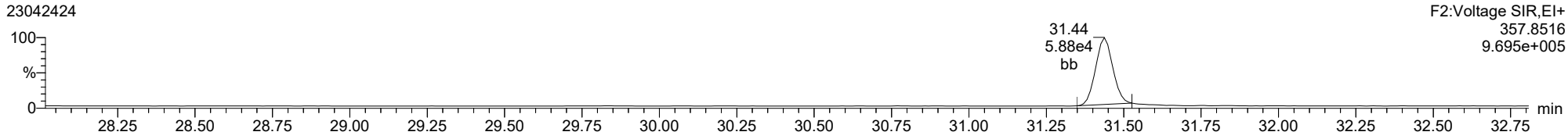

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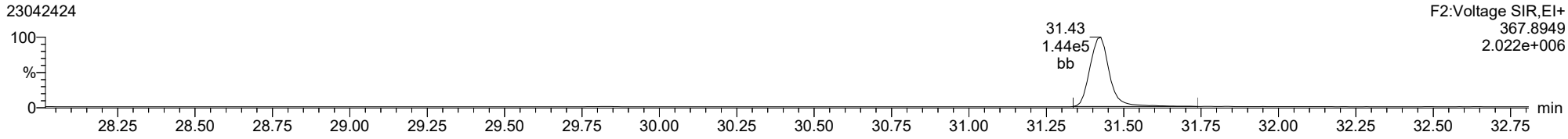

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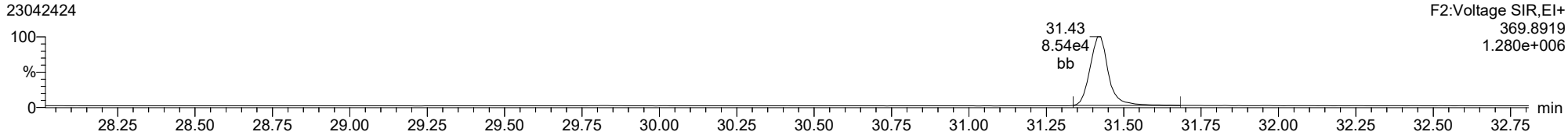

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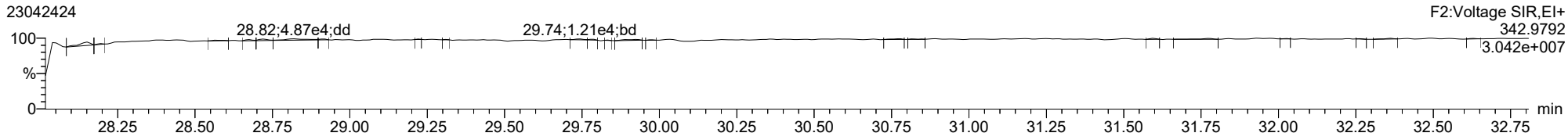

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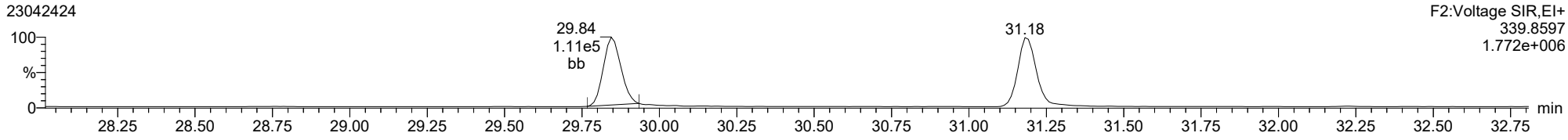

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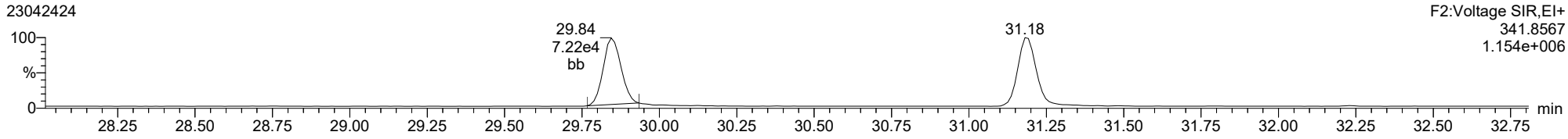

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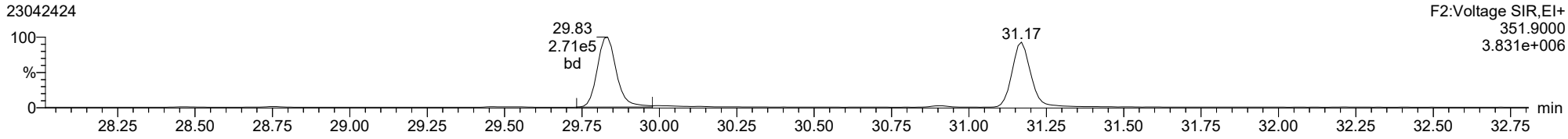

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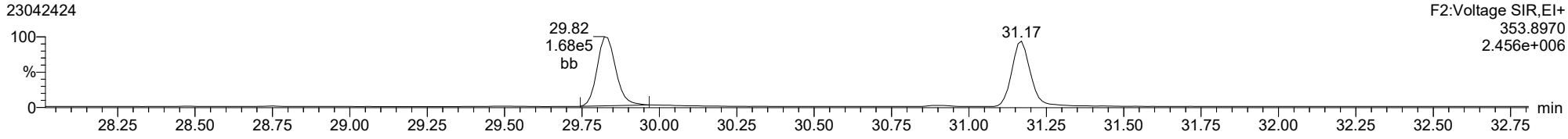
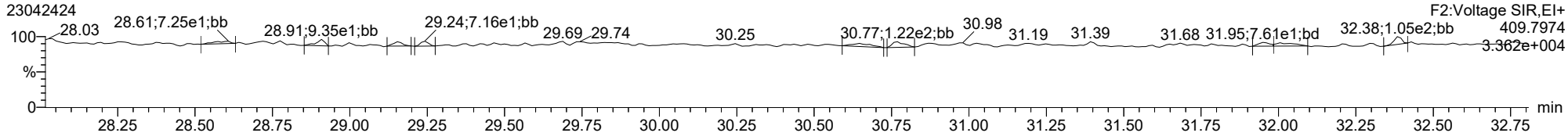


FUNCTION2 HPCDPE



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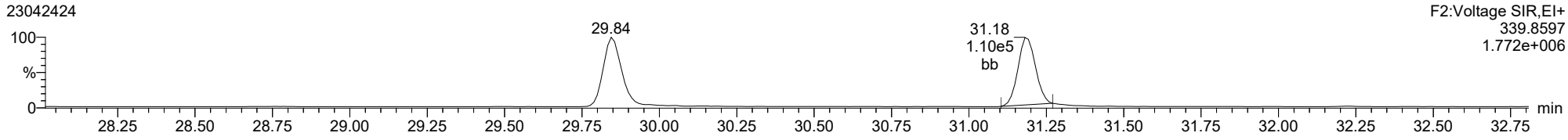
23478-PeCDF



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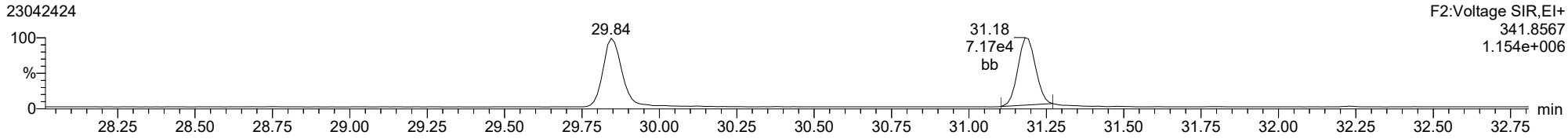

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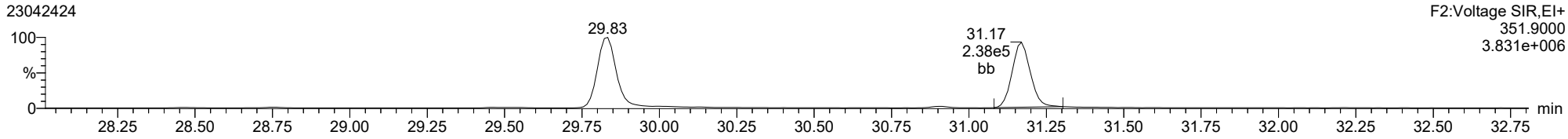

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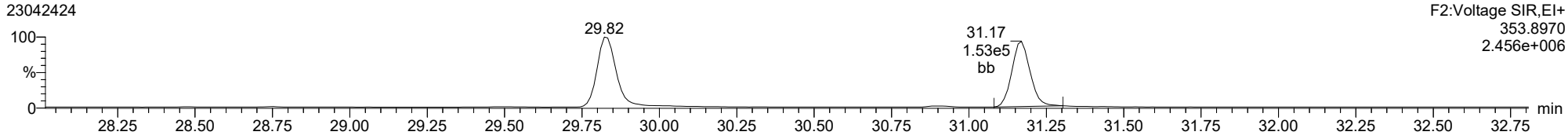

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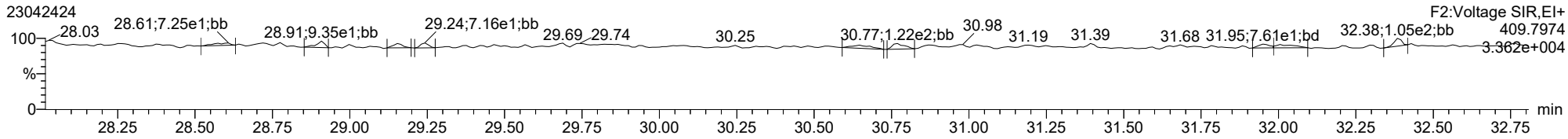

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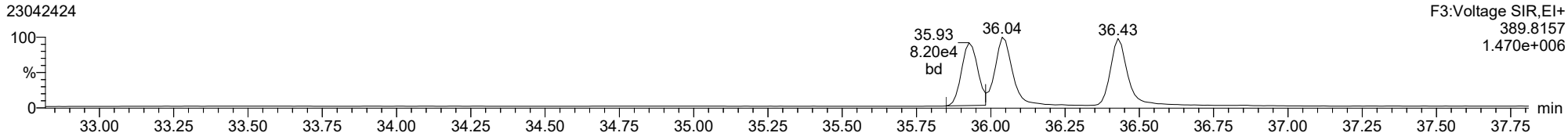
123478-HxCDD



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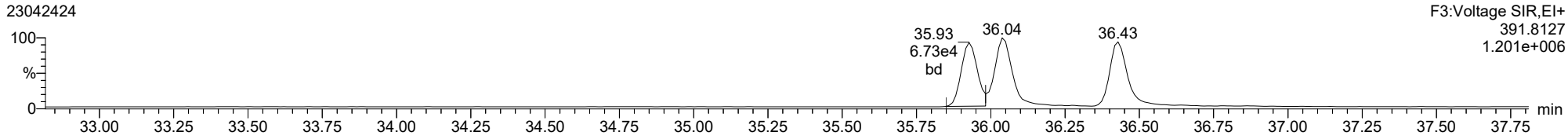

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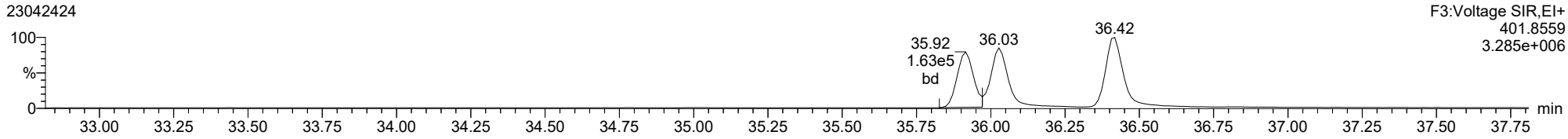

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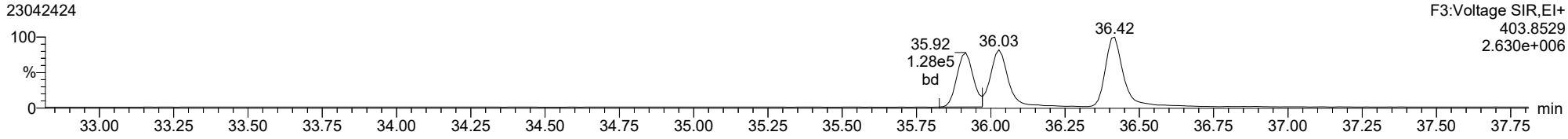

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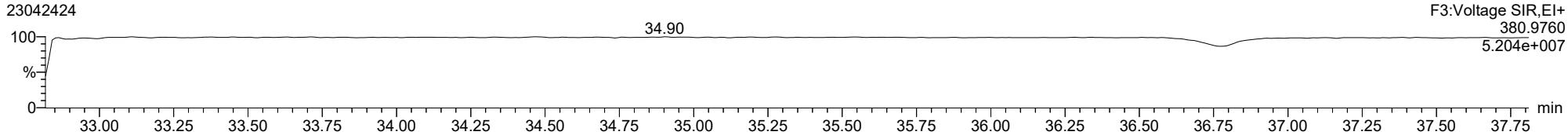

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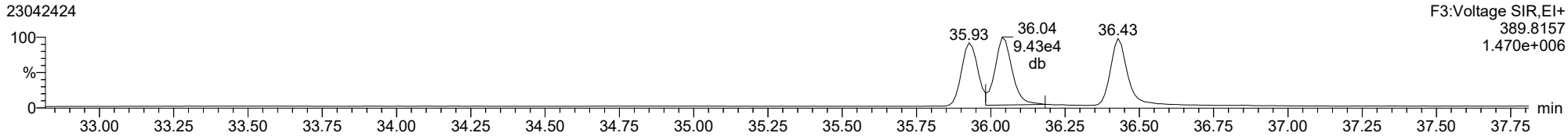

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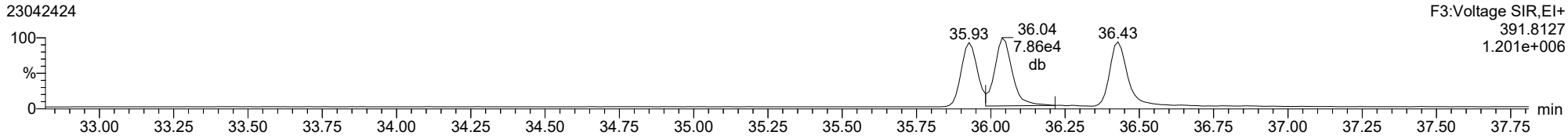

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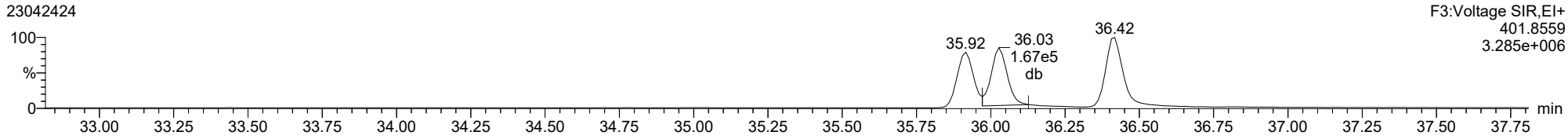

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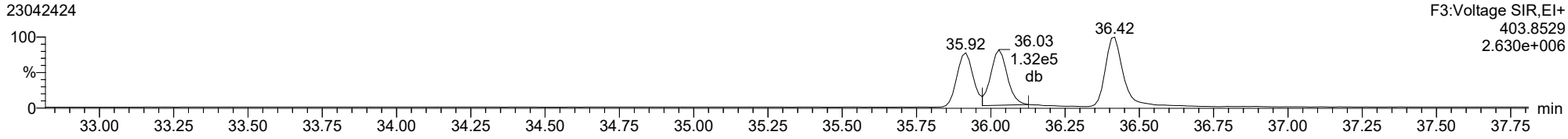

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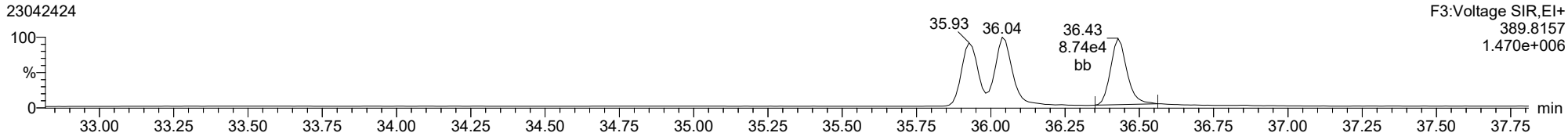

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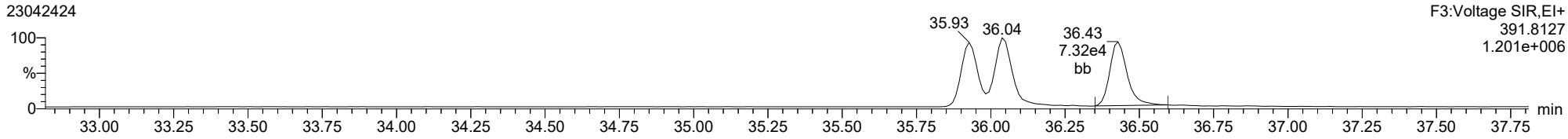

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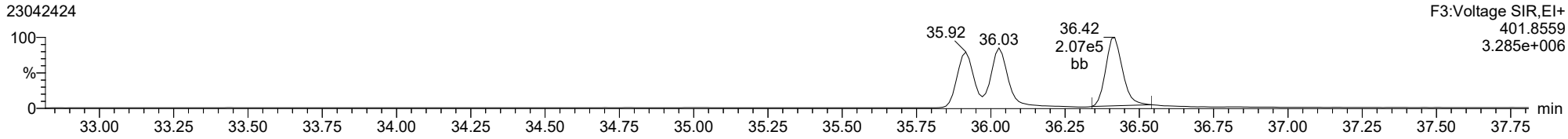

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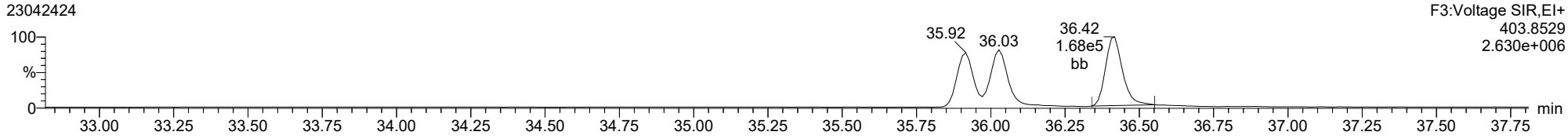

ID: BLC0379-BS1, Name: 23042424, Date: 25-Apr-2023, Time: 09:25:20, Conditions: AUTOSPEC01, User: pk

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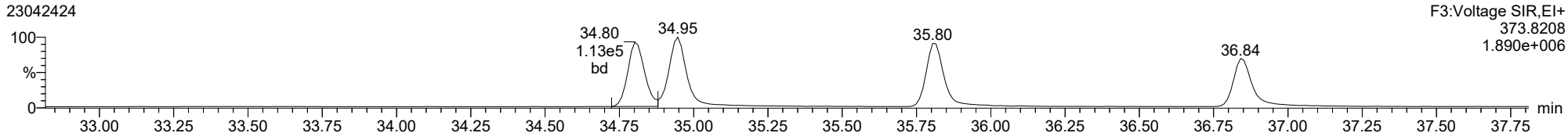

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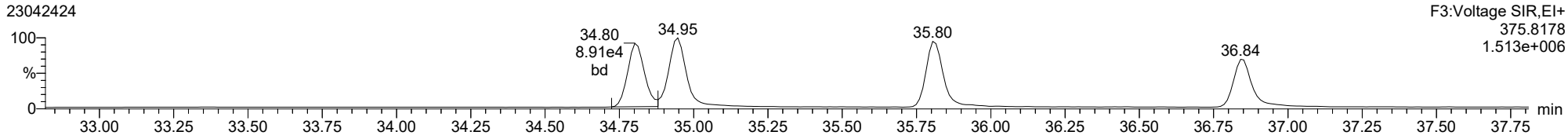

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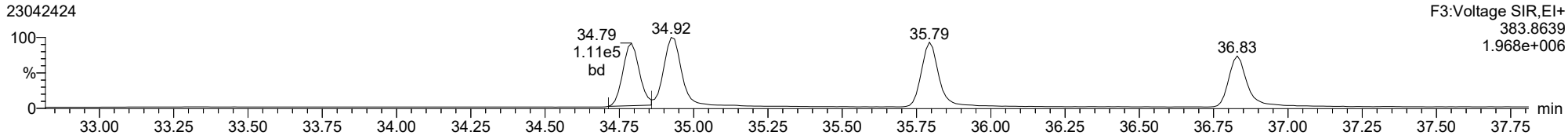

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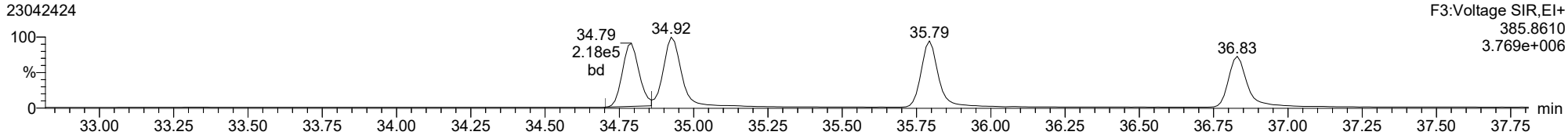

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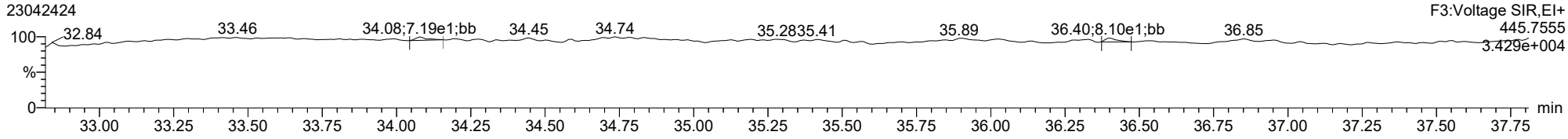

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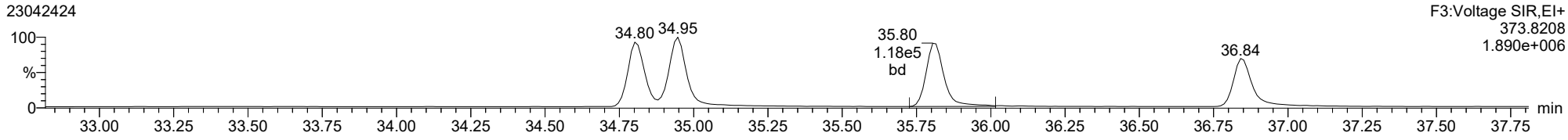

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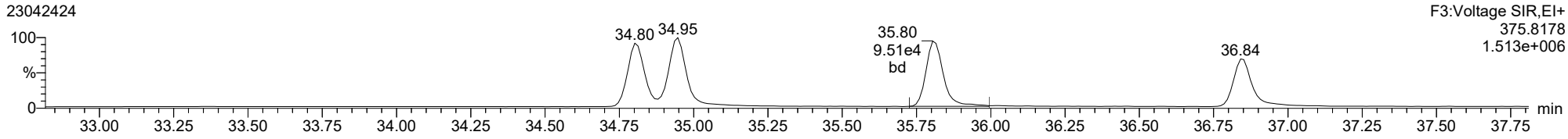

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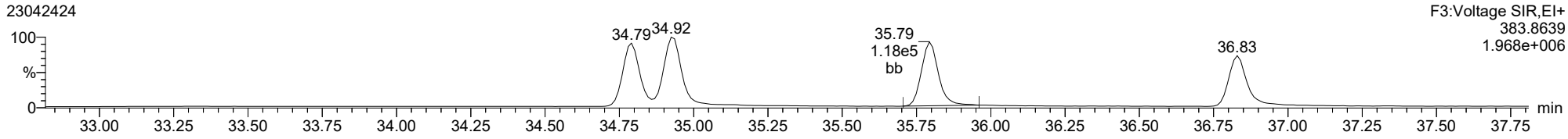

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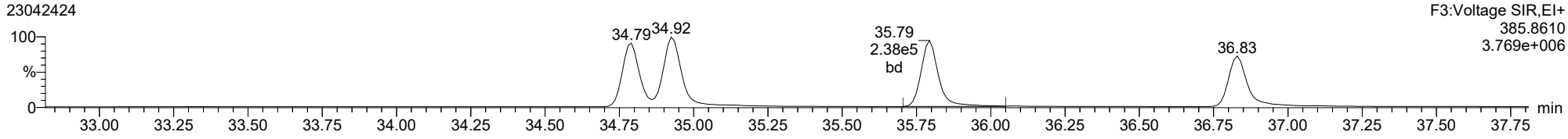

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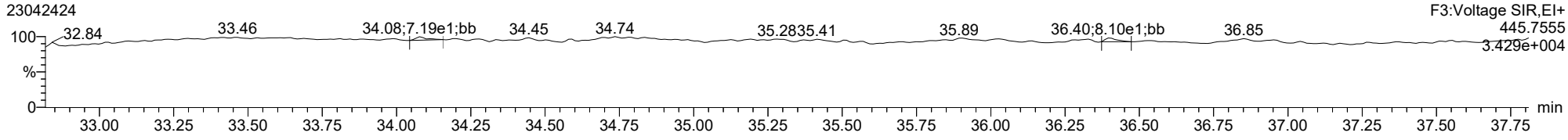

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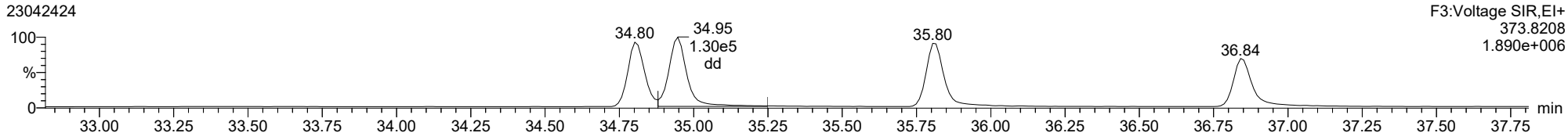

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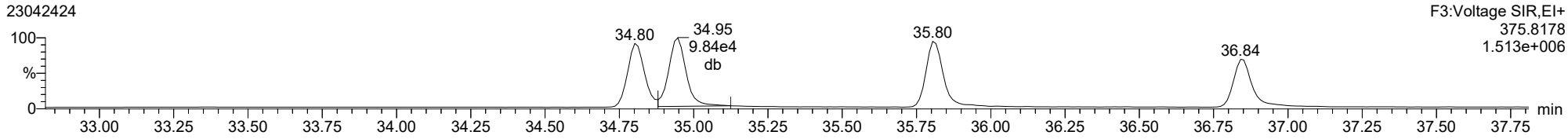

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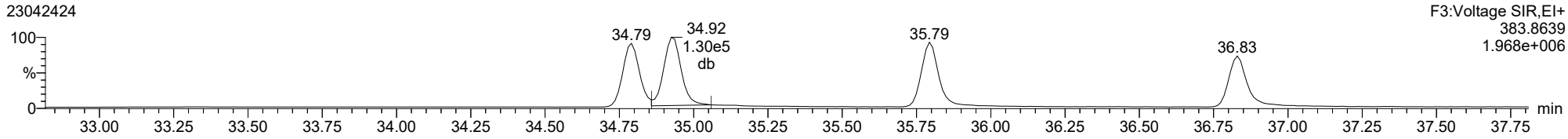

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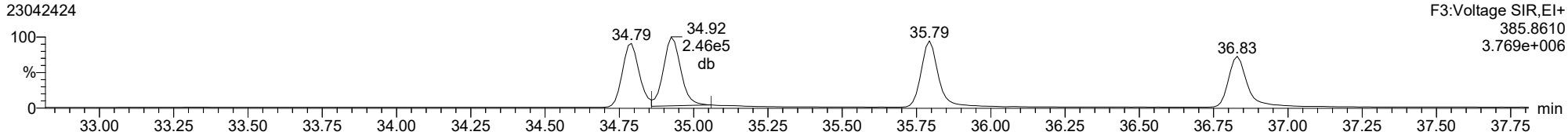

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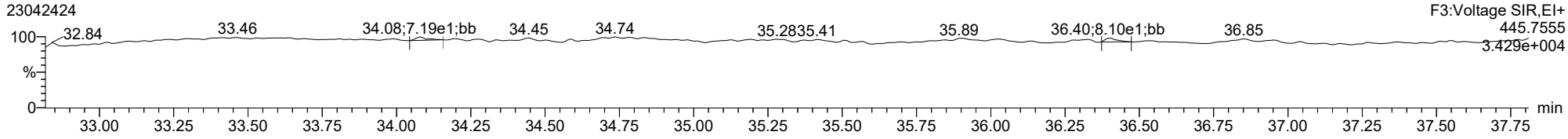

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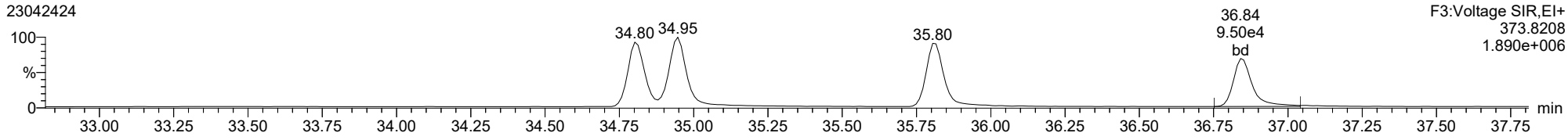

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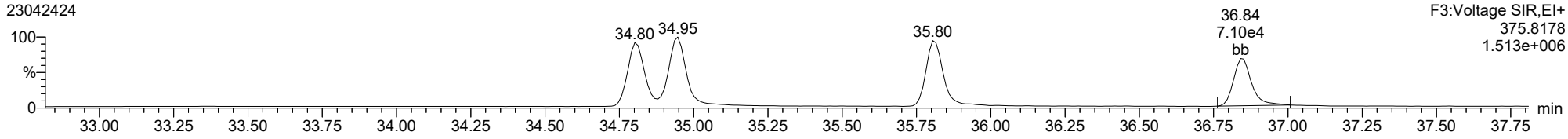

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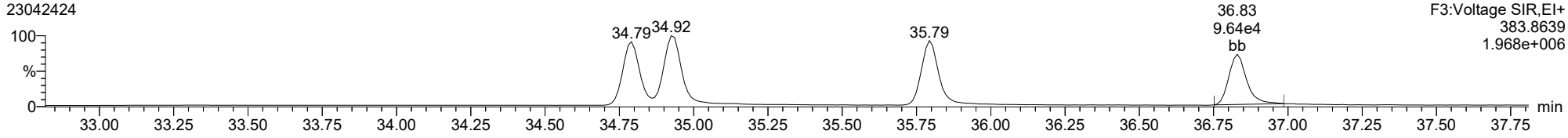

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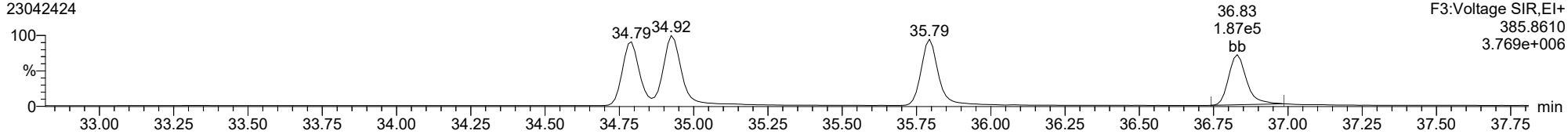

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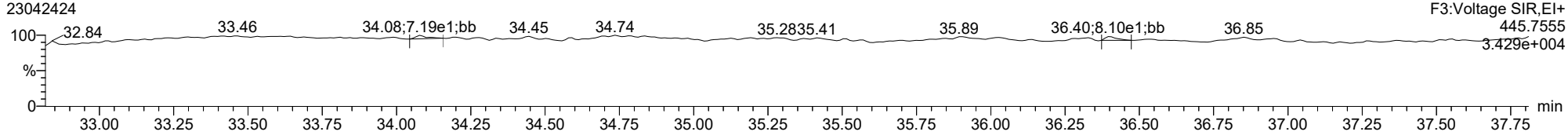

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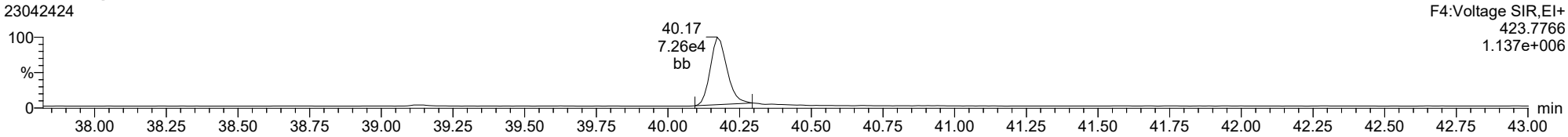

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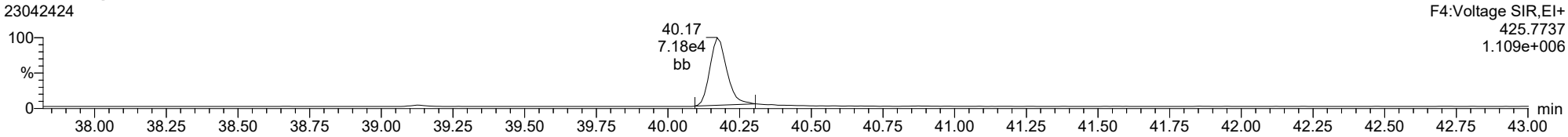

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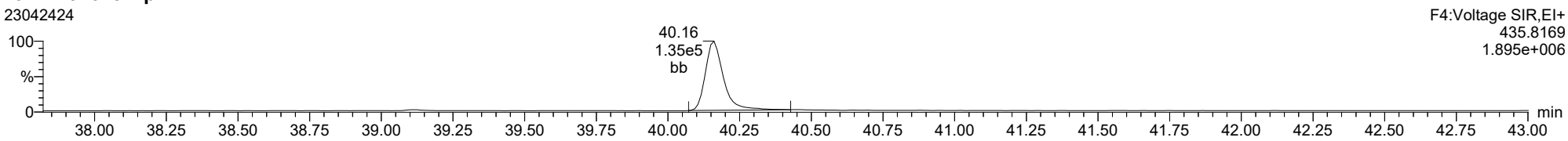

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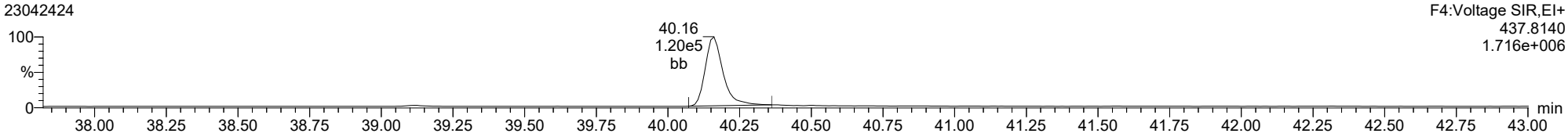

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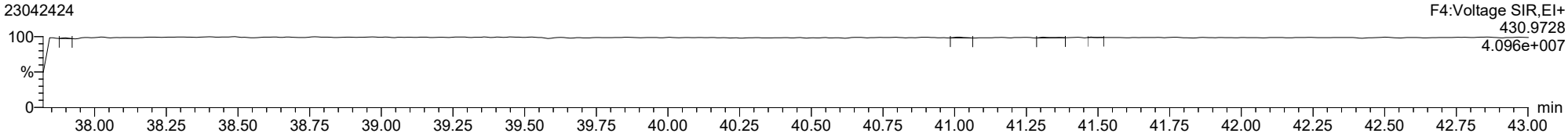

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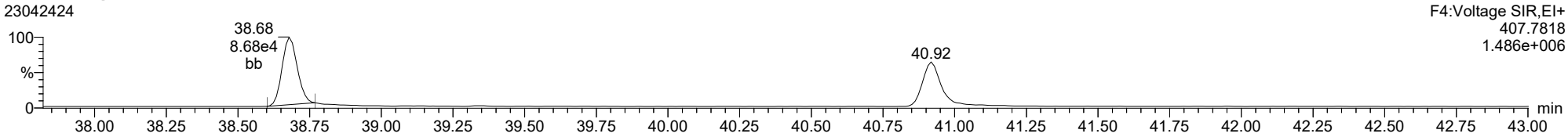

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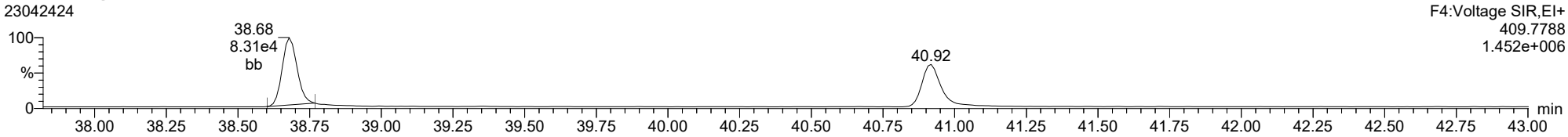

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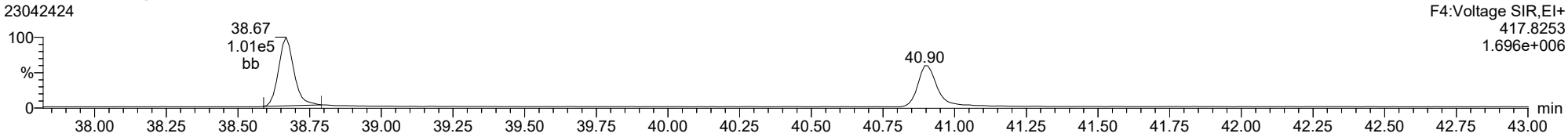

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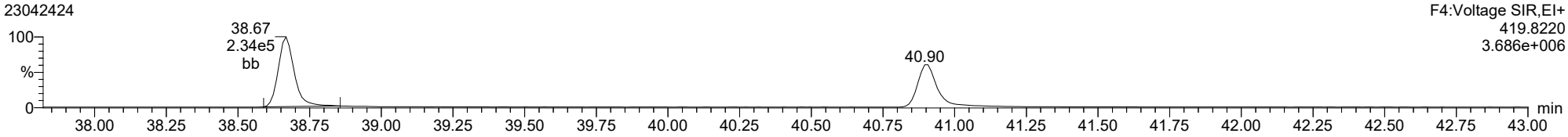
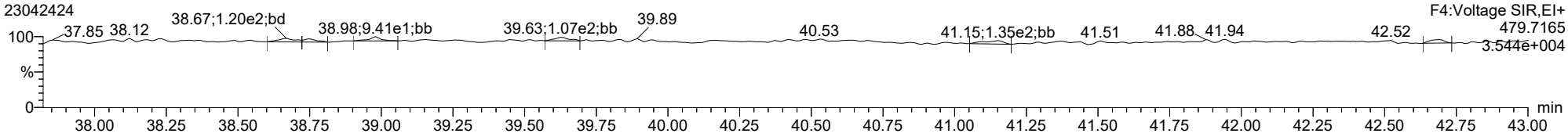


FUNCTION4 NCDPE



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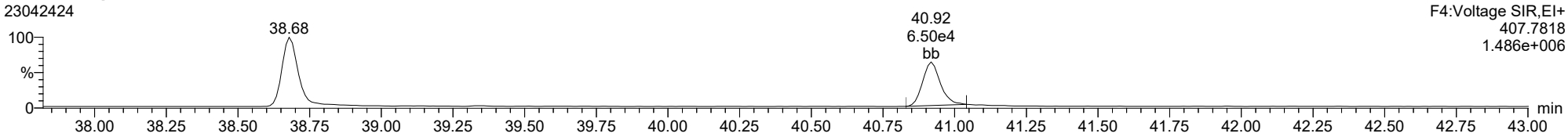

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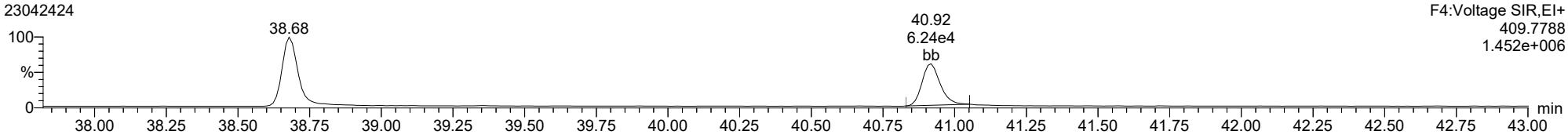

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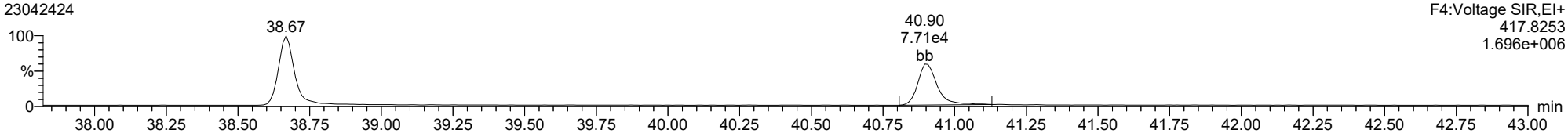

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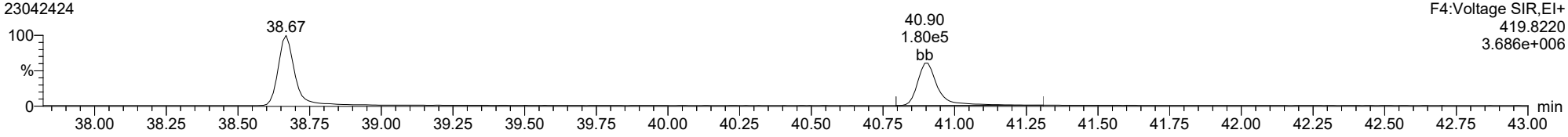

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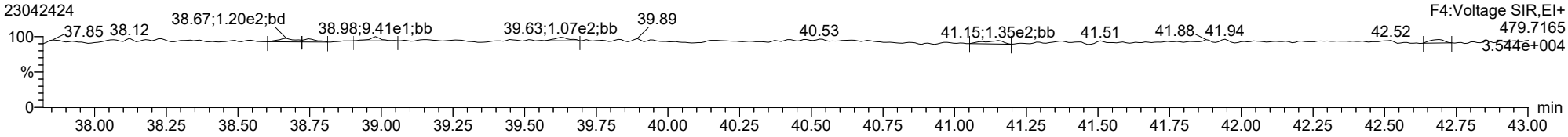

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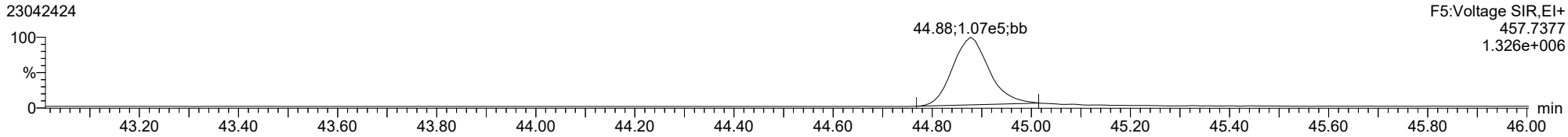

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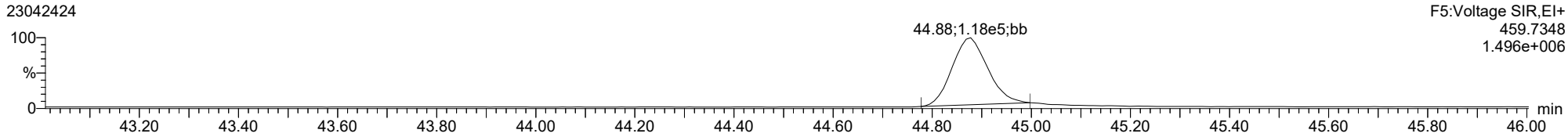

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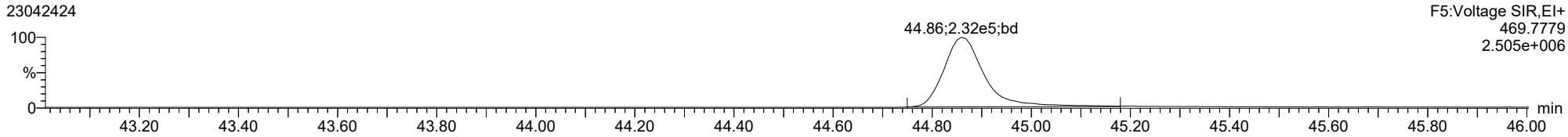

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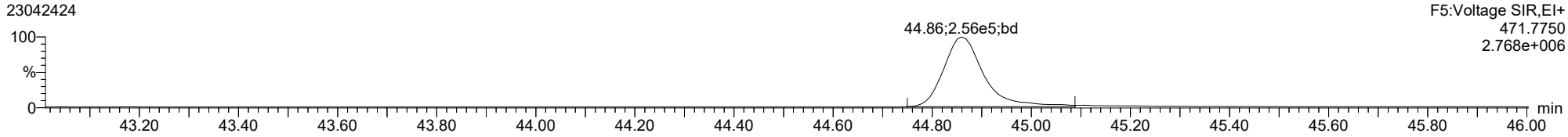
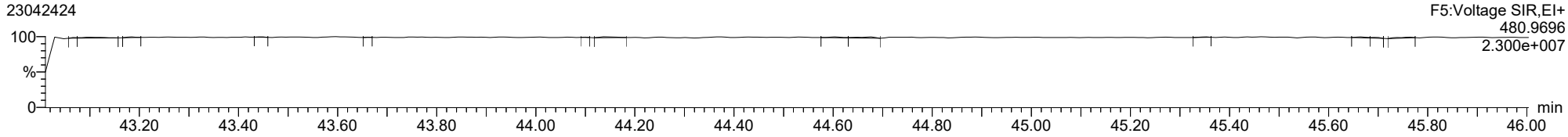


FUNCTION5 PFK



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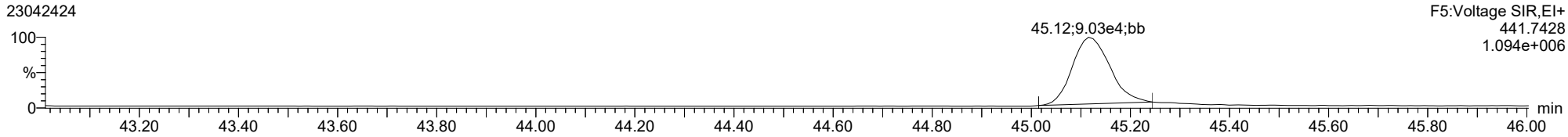
OCDF



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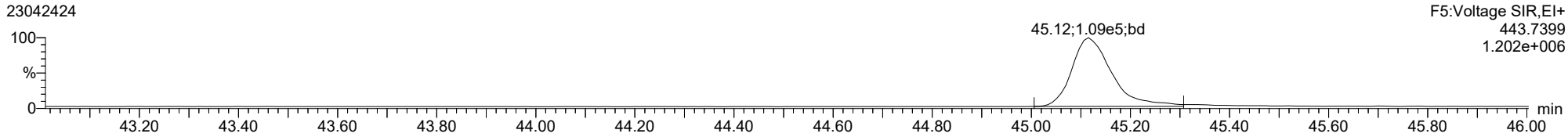
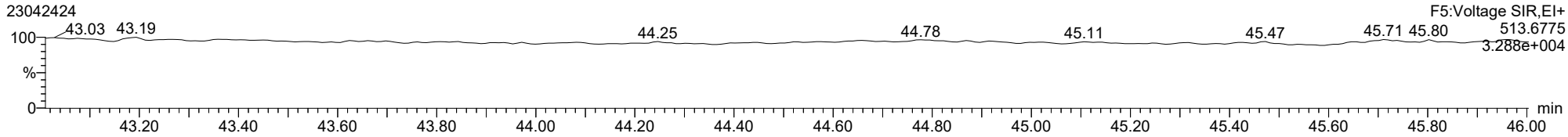


FUNCTION5 DCDPE



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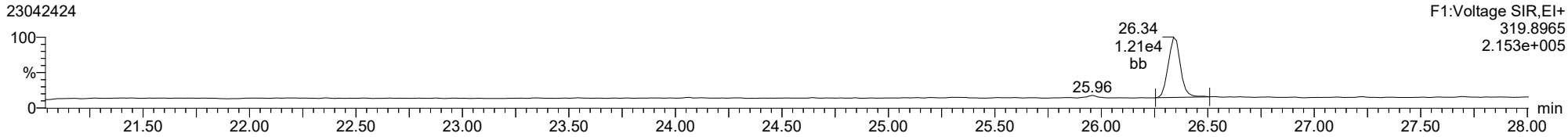
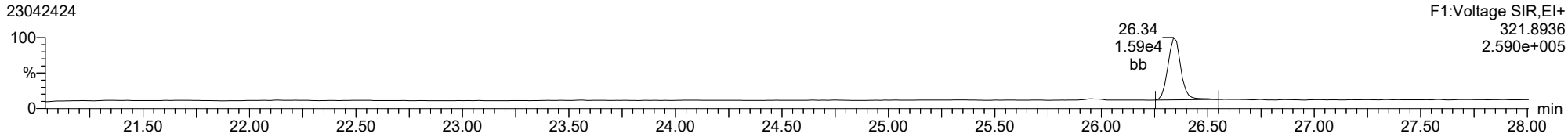
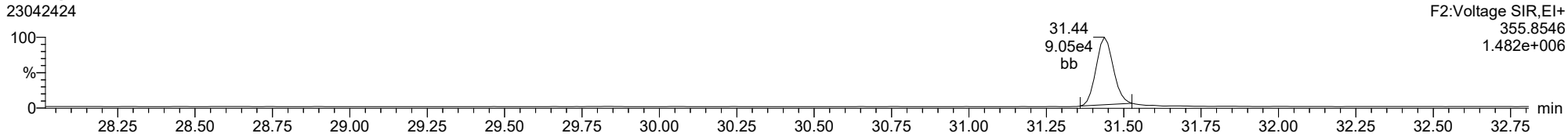
Total-tetradioxins



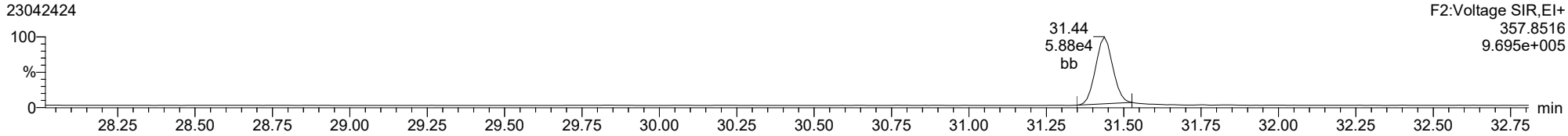
Total-tetradioxins



Total-pentadioxins



Total-pentadioxins



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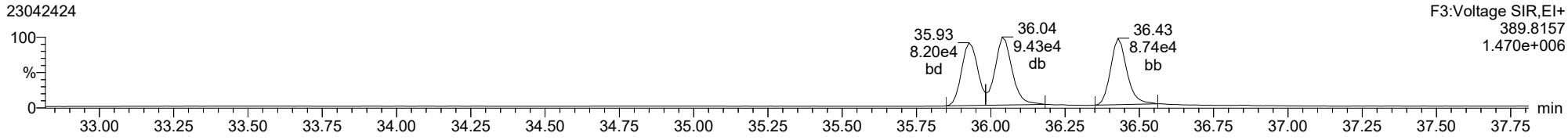
Total-hexadioxins



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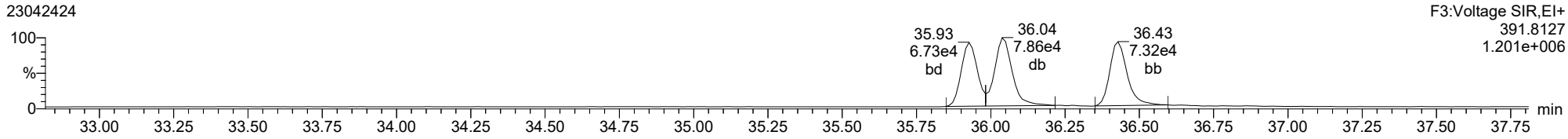

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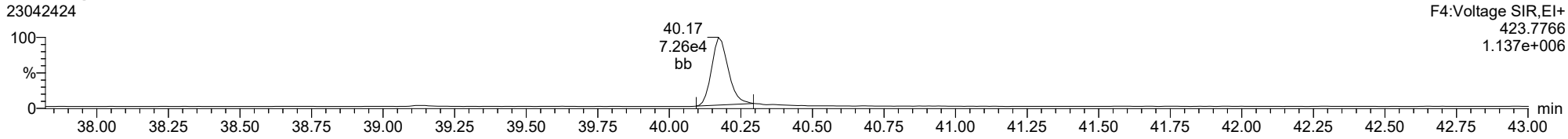

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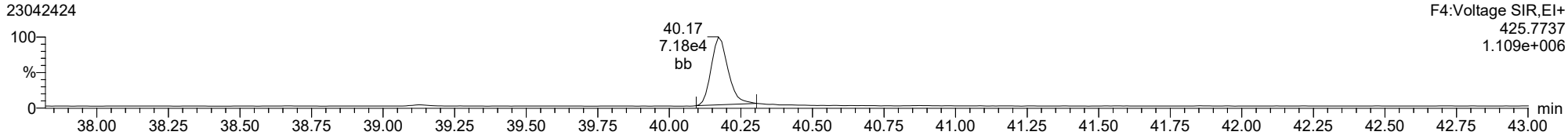
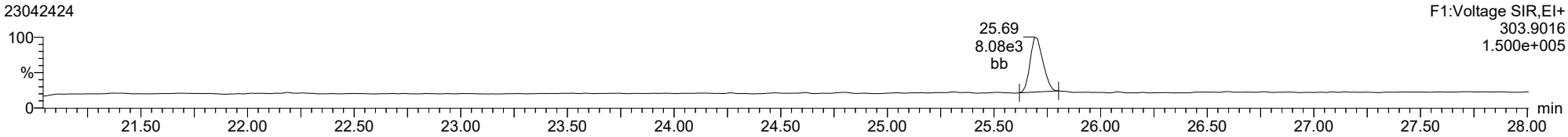
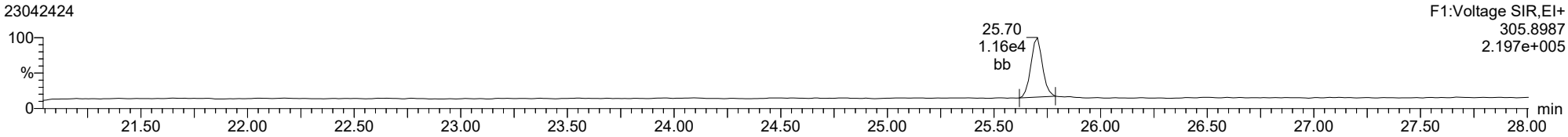


ID: BLC0379-BS1, Name: 23042424, Date: 25-Apr-2023, Time: 09:25:20, Conditions: AUTOSPEC01, User: pk

Total-tetrafurans



Total-tetrafurans



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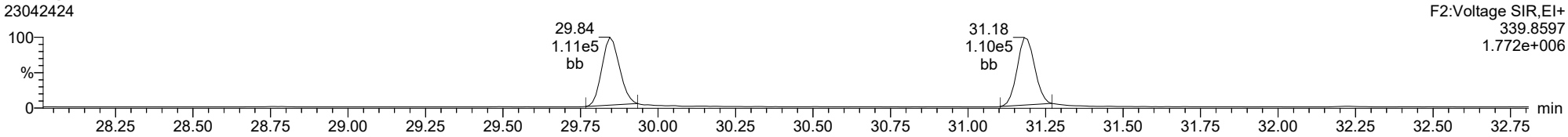

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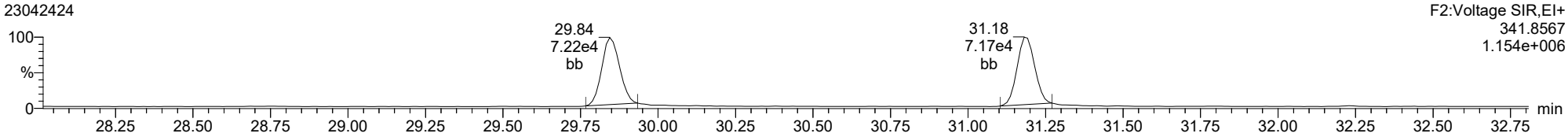

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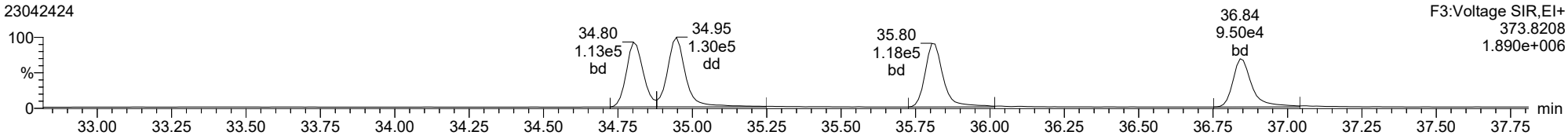
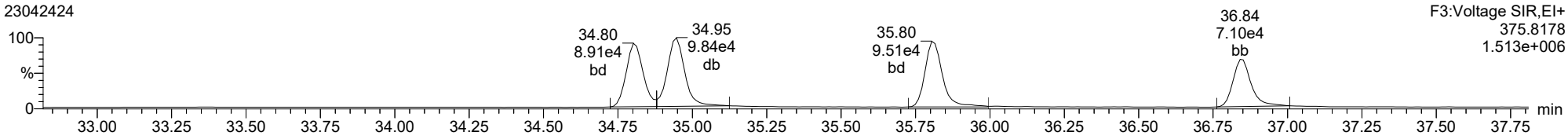
Total-hexafurans



Total-hexafurans



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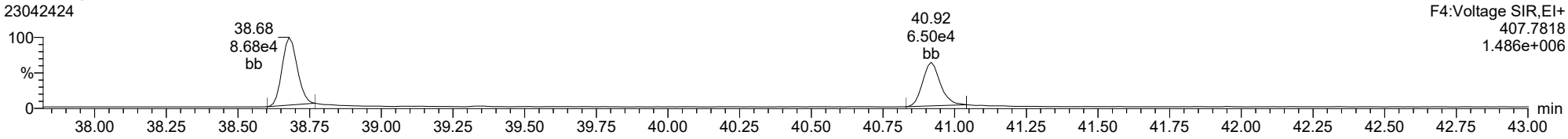

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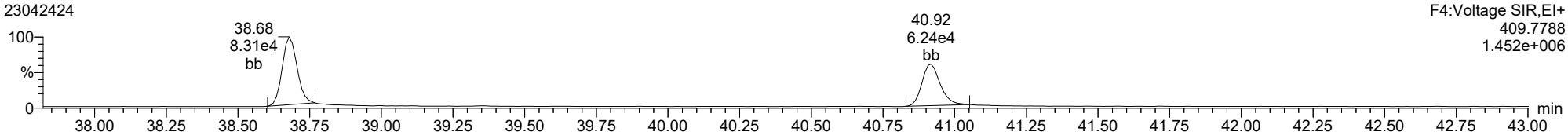

DUPLICATES

EPA 1613B

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Matrix: Solid
Laboratory ID: BLC0379-DUP1
Batch: BLC0379
Lab Source ID: 23C0071-02
Preparation: EPA 8290
Initial/Final: 19.84 g / 20 uL
Source Sample Name: LDW23-SS1037
% Solids: 49.83

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION	DUPLICATE CONCENTRATION	RPD %	Q
2,3,7,8-TCDF	25	0.982	0.959	2.46	
2,3,7,8-TCDD	25	0.442	ND		
1,2,3,7,8-PeCDF	25	0.907	0.979	7.58	
2,3,4,7,8-PeCDF	25	1.57	1.71	8.31	
1,2,3,7,8-PeCDD	25	1.51	1.79	17.0	
1,2,3,4,7,8-HxCDF	25	4.70	4.92	4.76	
1,2,3,6,7,8-HxCDF	25	1.79	1.50	17.7	
2,3,4,6,7,8-HxCDF	25	2.19	ND		
1,2,3,7,8,9-HxCDF	25	1.03	0.800	25.3	*
1,2,3,4,7,8-HxCDD	25	1.53	1.51	1.88	
1,2,3,6,7,8-HxCDD	25	6.46	5.93	8.60	
1,2,3,7,8,9-HxCDD	25	3.89	3.78	2.97	
1,2,3,4,6,7,8-HpCDF	25	42.7	35.2	19.4	
1,2,3,4,7,8,9-HpCDF	25	3.83	3.39	12.1	
1,2,3,4,6,7,8-HpCDD	25	206	175	16.1	
OCDF	25	165	118	33.5	*
OCDD	25	1700	1430	16.9	
Total TCDF	200	12.4	10.6	15.2	
Total TCDD	200	2.53	1.07	80.9	
Total PeCDF	200	19.8	19.0	3.90	
Total PeCDD	200	4.11	4.83	16.2	
Total HxCDF	200	59.0	50.7	15.1	
Total HxCDD	200	46.1	49.0	5.98	
Total HpCDF	200	166	126	27.4	
Total HpCDD	200	483	401	18.4	
13C12-2,3,7,8-TCDF		122	94.1		
13C12-2,3,7,8-TCDD		138	111		

* Values outside of QC limits
L Analyte concentration is <=5 times the reporting limit and the replicate control limit defaults to +/- RL instead of 20% RPD

DUPLICATES

EPA 1613B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Matrix: Solid
Batch: BLC0379
Preparation: EPA 8290
Source Sample Name: LDW23-SS1037

SDG: 23C0071
Project: AOC5 MR Phase 1
Laboratory ID: BLC0379-DUP1
Lab Source ID: 23C0071-02
Initial/Final: 19.84 g / 20 uL
% Solids: 49.83

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION	DUPLICATE CONCENTRATION	RPD %	Q
13C12-1,2,3,7,8-PeCDF		153	144		
13C12-2,3,4,7,8-PeCDF		159	152		
13C12-1,2,3,7,8-PeCDD		114	113		
13C12-1,2,3,4,7,8-HxCDF		136	129		
13C12-1,2,3,6,7,8-HxCDF		116	111		
13C12-2,3,4,6,7,8-HxCDF		136	132		
13C12-1,2,3,7,8,9-HxCDF		138	126		
13C12-1,2,3,4,7,8-HxCDD		141	131		
13C12-1,2,3,6,7,8-HxCDD		119	116		
13C12-1,2,3,4,6,7,8-HpCDF		158	155		
13C12-1,2,3,4,7,8,9-HpCDF		148	143		
13C12-1,2,3,4,6,7,8-HpCDD		129	126		
13C12-OCDD		251	258		
37Cl4-2,3,7,8-TCDD		61.4	46.5		

*: Values outside of QC limits
L: Analyte concentration is <=5 times the reporting limit and the replicate control limit defaults to Dup = +/- RL instead of 20% RPD

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Printed: Tuesday, April 25, 2023 14:50:46 Pacific Daylight Time

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Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 11:57:27

ID: BLC0379-DUP1, Name: 23042426, Date: 25-Apr-2023, Time: 11:03:17, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	25.704	1.001	3.851e2	8.609e2	0.702	0.447	0.770	1392	1231	6.23e3	1.27e4	4.5	10.3	YES	MM	bb	0.474
12378-PeCDF	29.844	1.000	8.314e2	6.166e2	0.679	1.348	1.550	1451	2224	1.15e4	8.50e3	7.9	3.8	NO	bb	bd	0.484
23478-PeCDF	31.204	1.001	1.599e3	1.176e3	0.786	1.359	1.550	1451	2224	2.30e4	1.71e4	15.8	7.7	NO	db	db	0.844
123478-HxCDF	34.825	1.001	5.312e3	4.334e3	1.166	1.226	1.240	702	1076	8.02e4	6.49e4	114.3	60.3	NO	dd	dd	2.434
234678-HxCDF					1.140		1.240	702	1076								
123678-HxCDF	34.969	1.001	1.443e3	1.347e3	1.091	1.071	1.240	702	1076	2.04e4	2.10e4	29.1	19.5	NO	db	db	0.742
123789-HxCDF	36.830	1.000	7.085e2	4.755e2	1.137	1.490	1.240	702	1076	1.25e4	1.03e4	17.8	9.5	YES	bb	MM	0.395
1234678-HpCDF	38.690	1.000	2.724e4	2.721e4	1.003	1.001	1.050	1049	974	4.67e5	4.70e5	445.8	482.2	NO	bb	bb	17.381
1234789-HpCDF	40.930	1.000	1.830e3	2.111e3	0.953	0.867	1.050	1049	974	3.11e4	3.10e4	29.6	31.8	YES	bb	MM	1.675
OCDF	45.134	1.006	4.769e4	5.324e4	0.778	0.896	0.890	1095	1105	6.01e5	6.90e5	549.0	624.4	NO	bb	bb	58.190
2378-TCDD					1.149		0.770	1227	854								
12378-PeCDD	31.438	1.000	1.291e3	7.819e2	1.022	1.651	1.550	1467	1249	1.90e4	1.07e4	13.0	8.6	NO	bb	bb	0.883
123478-HxCDD	35.961	1.001	1.273e3	9.055e2	0.996	1.406	1.240	1045	999	1.84e4	1.31e4	17.6	13.1	NO	bd	bd	0.745
123678-HxCDD	36.072	1.000	4.867e3	3.992e3	1.001	1.219	1.240	1045	999	8.05e4	6.59e4	77.0	66.0	NO	dd	dd	2.932
123789-HxCDD	36.451	1.011	2.639e3	2.410e3	0.907	1.095	1.240	1045	999	4.28e4	3.55e4	41.0	35.6	NO	bb	MM	1.869
1234678-HpCDD	40.183	1.000	1.082e5	1.059e5	1.039	1.022	1.050	2182	1587	1.70e6	1.68e6	779.2	1057.3	NO	bb	bb	86.454
OCDD	44.887	1.000	6.727e5	7.811e5	0.920	0.861	0.890	1293	1213	8.53e6	9.93e6	6598.5	8185.7	NO	bb	bb	708.704
13C-2378-TCDF	25.690	1.007	1.652e5	2.096e5	1.620	0.788	0.770	961	1098	2.46e6	3.19e6	2565.2	2901.8	NO	dd	bb	46.519
13C-12378-PeCDF	29.844	1.169	2.686e5	1.720e5	1.240	1.562	1.550	1159	1550	3.99e6	2.58e6	3439.6	1664.9	NO	bb	bb	71.416
13C-23478-PeCDF	31.181	1.222	2.534e5	1.649e5	1.118	1.537	1.550	1159	1550	3.94e6	2.56e6	3398.8	1653.2	NO	bb	bb	75.244
13C-123478-HxCDF	34.802	0.955	1.156e5	2.243e5	1.168	0.515	0.510	809	1470	1.81e6	3.50e6	2235.1	2380.9	NO	bd	bd	63.970
13C-123678-HxCDF	34.947	0.959	1.175e5	2.271e5	1.386	0.517	0.510	809	1470	1.81e6	3.47e6	2240.1	2360.1	NO	db	db	54.660
13C-234678-HxCDF	35.816	0.983	1.138e5	2.216e5	1.129	0.514	0.510	809	1470	1.81e6	3.48e6	2238.3	2365.8	NO	bb	bb	65.314
13C-123789-HxCDF	36.841	1.011	9.022e4	1.731e5	0.932	0.521	0.510	809	1470	1.51e6	2.93e6	1861.1	1994.6	NO	bb	bb	62.135
13C-1234678-HpCDF	38.679	1.061	9.705e4	2.153e5	0.895	0.451	0.440	1176	1333	1.63e6	3.58e6	1386.0	2683.5	NO	bb	bb	76.721
13C-1234789-HpCDF	40.919	1.123	7.431e4	1.726e5	0.770	0.431	0.440	1176	1333	1.04e6	2.33e6	886.5	1750.5	NO	bb	bb	70.531
13C-1234-TCDD	25.520	0.000	2.214e5	2.759e5	1.000	0.803	0.770	2001	992	3.37e6	4.16e6	1682.2	4190.1	NO	bb	bb	100.000
13C-2378-TCDD	26.325	1.032	1.375e5	1.780e5	1.152	0.772	0.770	2001	992	2.16e6	2.78e6	1077.7	2807.8	NO	bb	bb	55.049
13C-12378-PeCDD	31.438	1.232	1.468e5	8.276e4	0.829	1.774	1.550	854	765	2.21e6	1.26e6	2590.2	1652.0	NO	bb	bb	55.696
13C-123478-HxCDD	35.938	0.986	1.630e5	1.309e5	0.995	1.246	1.240	1123	1270	2.58e6	2.09e6	2297.4	1642.3	NO	bd	bd	64.946
13C-123678-HxCDD	36.061	0.990	1.668e5	1.351e5	1.157	1.234	1.240	1123	1270	2.61e6	2.11e6	2325.9	1660.1	NO	db	db	57.388
13C-1234678-HpCDD	40.172	1.102	1.244e5	1.140e5	0.840	1.092	1.050	1167	1234	1.99e6	1.81e6	1703.1	1464.2	NO	bb	bb	62.398
13C-OCDD	44.878	1.232	2.141e5	2.319e5	0.767	0.923	0.890	995	1270	2.59e6	2.82e6	2604.2	2222.5	NO	bb	bb	127.773
13C-123789-HxCDD	36.440	0.000	2.547e5	2.001e5	1.000	1.273	1.240	1123	1270	4.13e6	3.24e6	3673.9	2548.6	NO	bb	bb	100.000
37CL-2378-TCDD	26.339	1.032	1.471e5		1.288			1254		2.20e6		1755.8			bb		22.965

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ID: BLC0379-DUP1, Name: 23042426, Date: 25-Apr-2023, Time: 11:03:17, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF	22.215	0.865	1.244e2	3.097e2	0.802	0.401	0.770	1392	1231	2.70e3	5.22e3	1.9	4.2	YES	bb	bb	0.144
1289-TCDF					0.678		0.770	1392	1231								
13468-PECDF					1.246		1.550	864	1360								
12389-PECDF					0.496		1.550	1451	2224								
123468-HXCDF	33.153	0.953	4.417e3	3.683e3	1.169	1.199	1.240	702	1076	6.74e4	5.45e4	96.1	50.6	NO	bb	bb	2.038
1368-TCDD	23.500	0.893	3.540e2	5.122e2	1.015	0.691	0.770	1227	854	7.09e3	1.05e4	5.8	12.4	NO	dd	bb	0.270
1289-TCDD	26.904	1.022	2.536e2	2.539e2	0.909	0.999	0.770	1227	854	2.10e3	3.30e3	1.7	3.9	YES	bb	bd	0.177
12479-PECDD	28.764	0.915	2.661e3	1.679e3	2.301	1.585	1.550	1467	1249	2.71e4	1.88e4	18.5	15.1	NO	bb	MM	0.821
12389-PECDD	31.838	1.013	3.066e2	1.744e2	1.184	1.758	1.550	1467	1249	5.00e3	4.47e3	3.4	3.6	NO	bb	bb	0.177
124679-HXCDD	33.933	0.944	1.268e4	1.042e4	1.115	1.218	1.240	1045	999	1.96e5	1.54e5	187.8	154.0	NO	bb	bb	7.046
1234679-HPCDD	39.147	0.974	1.545e5	1.489e5	1.137	1.038	1.050	2182	1587	2.50e6	2.41e6	1145.2	1521.7	NO	bb	bb	111.941
Total-tetrafurans			6.151e3		0.727			1392		8.76e4							5.245
Total-penta1			1.061e4					864		1.53e5							4.324
Total-pentafurans			8.748e3		0.654			1451		1.05e5							5.066
Total-hexafurans			5.088e4		1.141			702		7.91e5							25.072
Total-heptafurans			8.921e4		0.978			1049		1.50e6							62.115
Total-Furans			2.133e5		0.922			1392		3.24e6							160.013
Total-tetradioxins			7.411e2		1.024			1227		1.22e4							0.531
Total-pentadioxins			5.333e3		1.502			1467		6.74e4							2.386
Total-hexadioxins			4.055e4		1.005			1045		5.61e5							24.217
Total-heptadioxins			2.628e5		1.088			2182		4.20e6							198.395
Total-Dioxins			9.821e5		1.130			1227		1.34e7							934.233
Total-TEQ			1.195e6					1227		1.66e7							1094.245
FUNCTION1 PFK			2.067e7					372757		1.26e8							
FUNCTION2 PFK			5.894e5					199488		2.33e6							0.000
FUNCTION3 PFK			1.079e7					322498		1.75e7							0.000
FUNCTION4 PFK			3.026e5					236124		9.35e6							
FUNCTION5 PFK			1.662e5					154090		5.63e6							
FUNCTION1 HXCD...			1.787e3					649		2.79e4							0.000
FUNCTION1 HPCD...																	
FUNCTION2 HPCD...			3.439e2					929		7.02e3							0.000
FUNCTION3 OCDPE			0.000e0					549		0.00e0							
FUNCTION4 NCDPE			5.862e3					795		8.84e4							0.000
FUNCTION5 DCDPE			0.000e0					601		0.00e0							

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Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 11:57:27

ID: BLC0379-DUP1, Name: 23042426, Date: 25-Apr-2023, Time: 11:03:17, Conditions: AUTOSPEC01, User: pk

TF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	23.81	5.070e2	7.576e2	0.727	0.67	0.77	5.5	YES	NO	dd	dd	0.464
2	Total-tetrafurans	23.70	5.885e2	7.911e2	0.727	0.74	0.77	6.4	YES	NO	bd	bd	0.506
3	Total-tetrafurans	23.18	2.566e2	2.954e2	0.727	0.87	0.77	3.5	YES	NO	db	db	0.203
4	Total-tetrafurans	23.05	1.145e3	1.421e3	0.727	0.81	0.77	13.1	YES	NO	bd	bd	0.942
5	Total-tetrafurans	25.94	6.622e2	9.649e2	0.727	0.69	0.77	8.1	YES	NO	db	db	0.597
6	Total-tetrafurans	25.46	1.667e3	2.347e3	0.727	0.71	0.77	13.2	YES	NO	db	db	1.473
7	Total-tetrafurans	24.63	9.021e2	1.055e3	0.727	0.86	0.77	8.4	YES	NO	dd	db	0.718
8	Total-tetrafurans	24.46	4.229e2	5.124e2	0.727	0.83	0.77	4.7	YES	NO	dd	dd	0.343

PP

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-penta1	27.13	1.061e4	6.862e3		1.55	1.55	177.0	YES	NO	bb	bb	4.324

PF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	23478-PeCDF	31.20	1.599e3	1.176e3	0.786	1.36	1.55	15.8	YES	NO	db	db	0.844
2	12378-PeCDF	29.84	8.314e2	6.166e2	0.679	1.35	1.55	7.9	YES	NO	bb	bd	0.484
3	Total-pentafurans	28.80	6.318e3	4.182e3	0.654	1.51	1.55	48.6	YES	NO	MM	MM	3.739

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-hexafurans	33.88	4.305e2	3.440e2	1.141	1.25	1.24	8.3	YES	NO	bb	bb	0.212
2	Total-hexafurans	33.37	1.505e4	1.236e4	1.141	1.22	1.24	319.2	YES	NO	bb	bb	7.489
3	123468-HXCDF	33.15	4.417e3	3.683e3	1.169	1.20	1.24	96.1	YES	NO	bb	bb	2.038
4	123678-HxCDF	34.97	1.443e3	1.347e3	1.091	1.07	1.24	29.1	YES	NO	db	db	0.742
5	123478-HxCDF	34.82	5.312e3	4.334e3	1.166	1.23	1.24	114.3	YES	NO	dd	dd	2.434
6	Total-hexafurans	34.66	8.626e2	6.084e2	1.141	1.42	1.24	19.6	YES	NO	bd	bd	0.402
7	Total-hexafurans	34.20	2.337e4	1.964e4	1.141	1.19	1.24	540.8	YES	NO	bb	bb	11.754

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HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-heptafurans	39.36	6.139e4	5.979e4	0.978	1.03	1.05	974.5	YES	NO	bb	bb	44.310
2	Total-heptafurans	39.12	5.782e2	5.815e2	0.978	0.99	1.05	7.9	YES	NO	bb	bb	0.424
3	1234678-HpCDF	38.69	2.724e4	2.721e4	1.003	1.00	1.05	445.8	YES	NO	bb	bb	17.381

Furans,TF,PP,PF,HF,HPF,OF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	23.81	5.070e2	7.576e2	0.727	0.67	0.77	5.5	YES	NO	dd	dd	0.464
2	Total-tetrafurans	23.70	5.885e2	7.911e2	0.727	0.74	0.77	6.4	YES	NO	bd	bd	0.506
3	Total-tetrafurans	23.18	2.566e2	2.954e2	0.727	0.87	0.77	3.5	YES	NO	db	db	0.203
4	Total-tetrafurans	23.05	1.145e3	1.421e3	0.727	0.81	0.77	13.1	YES	NO	bd	bd	0.942
5	Total-tetrafurans	25.94	6.622e2	9.649e2	0.727	0.69	0.77	8.1	YES	NO	db	db	0.597
6	Total-tetrafurans	25.46	1.667e3	2.347e3	0.727	0.71	0.77	13.2	YES	NO	db	db	1.473
7	Total-tetrafurans	24.63	9.021e2	1.055e3	0.727	0.86	0.77	8.4	YES	NO	dd	db	0.718
8	Total-tetrafurans	24.46	4.229e2	5.124e2	0.727	0.83	0.77	4.7	YES	NO	dd	dd	0.343
9	23478-PeCDF	31.20	1.599e3	1.176e3	0.786	1.36	1.55	15.8	YES	NO	db	db	0.844
10	12378-PeCDF	29.84	8.314e2	6.166e2	0.679	1.35	1.55	7.9	YES	NO	bb	bd	0.484
11	Total-hexafurans	33.88	4.305e2	3.440e2	1.141	1.25	1.24	8.3	YES	NO	bb	bb	0.212
12	Total-hexafurans	33.37	1.505e4	1.236e4	1.141	1.22	1.24	319.2	YES	NO	bb	bb	7.489
13	123468-HXCDF	33.15	4.417e3	3.683e3	1.169	1.20	1.24	96.1	YES	NO	bb	bb	2.038
14	123678-HxCDF	34.97	1.443e3	1.347e3	1.091	1.07	1.24	29.1	YES	NO	db	db	0.742
15	123478-HxCDF	34.82	5.312e3	4.334e3	1.166	1.23	1.24	114.3	YES	NO	dd	dd	2.434
16	Total-hexafurans	34.66	8.626e2	6.084e2	1.141	1.42	1.24	19.6	YES	NO	bd	bd	0.402
17	Total-hexafurans	34.20	2.337e4	1.964e4	1.141	1.19	1.24	540.8	YES	NO	bb	bb	11.754
18	Total-heptafurans	39.36	6.139e4	5.979e4	0.978	1.03	1.05	974.5	YES	NO	bb	bb	44.310
19	Total-heptafurans	39.12	5.782e2	5.815e2	0.978	0.99	1.05	7.9	YES	NO	bb	bb	0.424
20	1234678-HpCDF	38.69	2.724e4	2.721e4	1.003	1.00	1.05	445.8	YES	NO	bb	bb	17.381
21	OCDF	45.13	4.769e4	5.324e4	0.778	0.90	0.89	549.0	YES	NO	bb	bb	58.190
22	Total-penta1	27.13	1.061e4	6.862e3		1.55	1.55	177.0	YES	NO	bb	bb	4.324
23	Total-pentafurans	28.80	6.318e3	4.182e3	0.654	1.51	1.55	48.6	YES	NO	MM	MM	3.739

TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetradioxins	24.97	3.871e2	4.540e2	1.024	0.85	0.77	4.2	YES	NO	bb	bb	0.260
2	1368-TCDD	23.50	3.540e2	5.122e2	1.015	0.69	0.77	5.8	YES	NO	dd	bb	0.270

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PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-pentadioxins	30.07	1.075e3	6.661e2	1.502	1.61	1.55	11.1	YES	NO	bd	bd	0.505
2	12479-PECDD	28.76	2.661e3	1.679e3	2.301	1.58	1.55	18.5	YES	NO	bb	MM	0.821
3	12389-PECDD	31.84	3.066e2	1.744e2	1.184	1.76	1.55	3.4	YES	NO	bb	bb	0.177
4	12378-PeCDD	31.44	1.291e3	7.819e2	1.022	1.65	1.55	13.0	YES	NO	bb	bb	0.883

HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-hexadioxins	35.17	1.773e3	1.539e3	1.005	1.15	1.24	25.6	YES	NO	db	db	1.106
2	Total-hexadioxins	35.07	1.486e4	1.191e4	1.005	1.25	1.24	152.9	YES	NO	bd	bd	8.944
3	Total-hexadioxins	34.70	2.453e3	2.259e3	1.005	1.09	1.24	35.2	YES	NO	bb	bb	1.574
4	124679-HXCDD	33.93	1.268e4	1.042e4	1.115	1.22	1.24	187.8	YES	NO	bb	bb	7.046
5	123789-HxCDD	36.45	2.639e3	2.410e3	0.907	1.10	1.24	41.0	YES	NO	bb	MM	1.869
6	123678-HxCDD	36.07	4.867e3	3.992e3	1.001	1.22	1.24	77.0	YES	NO	dd	dd	2.932
7	123478-HxCDD	35.96	1.273e3	9.055e2	0.996	1.41	1.24	17.6	YES	NO	bd	bd	0.745

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	40.18	1.082e5	1.059e5	1.039	1.02	1.05	779.2	YES	NO	bb	bb	86.454
2	1234679-HPCDD	39.15	1.545e5	1.489e5	1.137	1.04	1.05	1145.2	YES	NO	bb	bb	111.941

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Dioxins,TD,PD,HD,HPD,OD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetradioxins	24.97	3.871e2	4.540e2	1.024	0.85	0.77	4.2	YES	NO	bb	bb	0.260
2	1368-TCDD	23.50	3.540e2	5.122e2	1.015	0.69	0.77	5.8	YES	NO	dd	bb	0.270
3	Total-pentadioxins	30.07	1.075e3	6.661e2	1.502	1.61	1.55	11.1	YES	NO	bd	bd	0.505
4	12479-PECDD	28.76	2.661e3	1.679e3	2.301	1.58	1.55	18.5	YES	NO	bb	MM	0.821
5	12389-PECDD	31.84	3.066e2	1.744e2	1.184	1.76	1.55	3.4	YES	NO	bb	bb	0.177
6	12378-PeCDD	31.44	1.291e3	7.819e2	1.022	1.65	1.55	13.0	YES	NO	bb	bb	0.883
7	Total-hexadioxins	35.17	1.773e3	1.539e3	1.005	1.15	1.24	25.6	YES	NO	db	db	1.106
8	Total-hexadioxins	35.07	1.486e4	1.191e4	1.005	1.25	1.24	152.9	YES	NO	bd	bd	8.944
9	Total-hexadioxins	34.70	2.453e3	2.259e3	1.005	1.09	1.24	35.2	YES	NO	bb	bb	1.574
10	124679-HXCDD	33.93	1.268e4	1.042e4	1.115	1.22	1.24	187.8	YES	NO	bb	bb	7.046
11	123789-HxCDD	36.45	2.639e3	2.410e3	0.907	1.10	1.24	41.0	YES	NO	bb	MM	1.869
12	123678-HxCDD	36.07	4.867e3	3.992e3	1.001	1.22	1.24	77.0	YES	NO	dd	dd	2.932
13	123478-HxCDD	35.96	1.273e3	9.055e2	0.996	1.41	1.24	17.6	YES	NO	bd	bd	0.745
14	1234678-HpCDD	40.18	1.082e5	1.059e5	1.039	1.02	1.05	779.2	YES	NO	bb	bb	86.454
15	1234679-HPCDD	39.15	1.545e5	1.489e5	1.137	1.04	1.05	1145.2	YES	NO	bb	bb	111.941
16	OCDD	44.89	6.727e5	7.811e5	0.920	0.86	0.89	6598.5	YES	NO	bb	bb	708.704

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TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	23.81	5.070e2	7.576e2	0.727	0.67	0.77	5.5	YES	NO	dd	dd	0.464
2	Total-tetrafurans	23.70	5.885e2	7.911e2	0.727	0.74	0.77	6.4	YES	NO	bd	bd	0.506
3	Total-tetrafurans	23.18	2.566e2	2.954e2	0.727	0.87	0.77	3.5	YES	NO	db	db	0.203
4	Total-tetrafurans	23.05	1.145e3	1.421e3	0.727	0.81	0.77	13.1	YES	NO	bd	bd	0.942
5	Total-tetrafurans	25.94	6.622e2	9.649e2	0.727	0.69	0.77	8.1	YES	NO	db	db	0.597
6	Total-tetrafurans	25.46	1.667e3	2.347e3	0.727	0.71	0.77	13.2	YES	NO	db	db	1.473
7	Total-tetrafurans	24.63	9.021e2	1.055e3	0.727	0.86	0.77	8.4	YES	NO	dd	db	0.718
8	Total-tetrafurans	24.46	4.229e2	5.124e2	0.727	0.83	0.77	4.7	YES	NO	dd	dd	0.343
9	23478-PeCDF	31.20	1.599e3	1.176e3	0.786	1.36	1.55	15.8	YES	NO	db	db	0.844
10	12378-PeCDF	29.84	8.314e2	6.166e2	0.679	1.35	1.55	7.9	YES	NO	bb	bd	0.484
11	Total-hexafurans	33.88	4.305e2	3.440e2	1.141	1.25	1.24	8.3	YES	NO	bb	bb	0.212
12	Total-hexafurans	33.37	1.505e4	1.236e4	1.141	1.22	1.24	319.2	YES	NO	bb	bb	7.489
13	123468-HXCDF	33.15	4.417e3	3.683e3	1.169	1.20	1.24	96.1	YES	NO	bb	bb	2.038
14	123678-HxCDF	34.97	1.443e3	1.347e3	1.091	1.07	1.24	29.1	YES	NO	db	db	0.742
15	123478-HxCDF	34.82	5.312e3	4.334e3	1.166	1.23	1.24	114.3	YES	NO	dd	dd	2.434
16	Total-hexafurans	34.66	8.626e2	6.084e2	1.141	1.42	1.24	19.6	YES	NO	bd	bd	0.402
17	Total-hexafurans	34.20	2.337e4	1.964e4	1.141	1.19	1.24	540.8	YES	NO	bb	bb	11.754
18	Total-heptafurans	39.36	6.139e4	5.979e4	0.978	1.03	1.05	974.5	YES	NO	bb	bb	44.310
19	Total-heptafurans	39.12	5.782e2	5.815e2	0.978	0.99	1.05	7.9	YES	NO	bb	bb	0.424
20	1234678-HpCDF	38.69	2.724e4	2.721e4	1.003	1.00	1.05	445.8	YES	NO	bb	bb	17.381
21	OCDF	45.13	4.769e4	5.324e4	0.778	0.90	0.89	549.0	YES	NO	bb	bb	58.190
22	Total-penta1	27.13	1.061e4	6.862e3		1.55	1.55	177.0	YES	NO	bb	bb	4.324
23	Total-pentafurans	28.80	6.318e3	4.182e3	0.654	1.51	1.55	48.6	YES	NO	MM	MM	3.739
24	Total-tetradioxins	24.97	3.871e2	4.540e2	1.024	0.85	0.77	4.2	YES	NO	bb	bb	0.260
25	1368-TCDD	23.50	3.540e2	5.122e2	1.015	0.69	0.77	5.8	YES	NO	dd	bb	0.270
26	Total-pentadioxins	30.07	1.075e3	6.661e2	1.502	1.61	1.55	11.1	YES	NO	bd	bd	0.505
27	12479-PECDD	28.76	2.661e3	1.679e3	2.301	1.58	1.55	18.5	YES	NO	bb	MM	0.821
28	12389-PECDD	31.84	3.066e2	1.744e2	1.184	1.76	1.55	3.4	YES	NO	bb	bb	0.177
29	12378-PeCDD	31.44	1.291e3	7.819e2	1.022	1.65	1.55	13.0	YES	NO	bb	bb	0.883
30	Total-hexadioxins	35.17	1.773e3	1.539e3	1.005	1.15	1.24	25.6	YES	NO	db	db	1.106
31	Total-hexadioxins	35.07	1.486e4	1.191e4	1.005	1.25	1.24	152.9	YES	NO	bd	bd	8.944
32	Total-hexadioxins	34.70	2.453e3	2.259e3	1.005	1.09	1.24	35.2	YES	NO	bb	bb	1.574
33	124679-HXCDD	33.93	1.268e4	1.042e4	1.115	1.22	1.24	187.8	YES	NO	bb	bb	7.046
34	123789-HxCDD	36.45	2.639e3	2.410e3	0.907	1.10	1.24	41.0	YES	NO	bb	MM	1.869
35	123678-HxCDD	36.07	4.867e3	3.992e3	1.001	1.22	1.24	77.0	YES	NO	dd	dd	2.932
36	123478-HxCDD	35.96	1.273e3	9.055e2	0.996	1.41	1.24	17.6	YES	NO	bd	bd	0.745
37	1234678-HpCDD	40.18	1.082e5	1.059e5	1.039	1.02	1.05	779.2	YES	NO	bb	bb	86.454

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TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	1234679-HPCDD	39.15	1.545e5	1.489e5	1.137	1.04	1.05	1145.2	YES	NO	bb	bb	111.941
39	OCDD	44.89	6.727e5	7.811e5	0.920	0.86	0.89	6598.5	YES	NO	bb	bb	708.704

PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	23.27	8.025e5					14.7	YES		bd		
2	FUNCTION1 PFK	23.03	7.839e5					20.3	YES		db		
3	FUNCTION1 PFK	22.75	2.158e6					20.1	YES		dd		
4	FUNCTION1 PFK	22.62	4.626e5					16.4	YES		dd		
5	FUNCTION1 PFK	22.48	4.070e5					17.6	YES		dd		
6	FUNCTION1 PFK	22.43	7.225e5					17.8	YES		dd		
7	FUNCTION1 PFK	22.19	1.141e6					19.8	YES		dd		
8	FUNCTION1 PFK	22.12	5.146e5					16.9	YES		bd		
9	FUNCTION1 PFK	21.95	4.326e5					14.7	YES		db		
10	FUNCTION1 PFK	21.81	2.212e5					6.4	YES		bd		
11	FUNCTION1 PFK	27.89	1.838e6					11.2	YES		bb		
12	FUNCTION1 PFK	27.50	1.178e6					22.2	YES		db		
13	FUNCTION1 PFK	27.33	2.585e5					12.0	YES		dd		
14	FUNCTION1 PFK	27.26	3.603e5					10.2	YES		bd		
15	FUNCTION1 PFK	27.12	3.689e4					2.3	NO		bb		
16	FUNCTION1 PFK	26.06	1.646e6					7.8	YES		bb		
17	FUNCTION1 PFK	25.59	9.809e5					24.9	YES		db		
18	FUNCTION1 PFK	25.53	1.175e6					24.4	YES		dd		
19	FUNCTION1 PFK	25.35	3.964e5					16.4	YES		bd		
20	FUNCTION1 PFK	25.10	3.702e6					21.8	YES		bb		
21	FUNCTION1 PFK	24.07	8.491e5					6.4	YES		bb		
22	FUNCTION1 PFK	23.32	6.061e5					14.3	YES		db		

PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	29.63	5.515e5					6.4	YES		bb		0.000
2	FUNCTION2 PFK	29.30	3.791e4					5.3	YES		bb		0.000

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PFK3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	37.26	3.407e6					9.0	YES		bb		0.000
2	FUNCTION3 PFK	36.54	7.181e6					39.0	YES		bb		0.000
3	FUNCTION3 PFK	33.03	2.054e5					6.3	YES		bb		0.000

ID: BLC0379-DUP1, Name: 23042426, Date: 25-Apr-2023, Time: 11:03:17, Conditions: AUTOSPEC01, User: pk

PFK4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	39.12	1.003e4					1.6	NO		bd		
2	FUNCTION4 PFK	39.07	3.044e3					0.7	NO		bb		
3	FUNCTION4 PFK	39.02	2.867e3					0.6	NO		bb		
4	FUNCTION4 PFK	38.94	5.089e3					0.6	NO		bb		
5	FUNCTION4 PFK	38.86	7.578e3					1.4	NO		bb		
6	FUNCTION4 PFK	38.72	4.105e3					0.9	NO		bb		
7	FUNCTION4 PFK	38.58	4.637e3					0.3	NO		bb		
8	FUNCTION4 PFK	38.49	1.533e4					1.1	NO		bb		
9	FUNCTION4 PFK	38.40	6.611e3					1.0	NO		bb		
10	FUNCTION4 PFK	38.30	2.645e3					0.6	NO		bb		
11	FUNCTION4 PFK	38.07	3.254e3					0.6	NO		bb		
12	FUNCTION4 PFK	37.92	1.974e3					0.8	NO		bb		
13	FUNCTION4 PFK	41.25	1.075e4					1.3	NO		bb		
14	FUNCTION4 PFK	41.14	9.447e3					1.7	NO		db		
15	FUNCTION4 PFK	41.10	3.181e4					2.3	NO		bd		
16	FUNCTION4 PFK	40.90	6.578e3					1.1	NO		bb		
17	FUNCTION4 PFK	40.83	2.106e4					1.3	NO		bb		
18	FUNCTION4 PFK	40.50	3.008e3					0.7	NO		bb		
19	FUNCTION4 PFK	40.37	1.265e4					1.5	NO		db		
20	FUNCTION4 PFK	40.34	3.041e3					0.8	NO		dd		
21	FUNCTION4 PFK	40.33	4.715e3					0.6	NO		bd		
22	FUNCTION4 PFK	40.16	2.420e3					0.5	NO		bb		
23	FUNCTION4 PFK	39.95	9.784e2					0.4	NO		bb		
24	FUNCTION4 PFK	39.68	2.564e4					1.5	NO		bb		
25	FUNCTION4 PFK	39.59	9.604e3					1.1	NO		bb		
26	FUNCTION4 PFK	39.25	1.012e3					0.4	NO		bb		
27	FUNCTION4 PFK	39.21	1.213e3					0.5	NO		bb		
28	FUNCTION4 PFK	39.17	3.148e3					0.9	NO		db		
29	FUNCTION4 PFK	42.76	4.700e3					0.6	NO		bb		
30	FUNCTION4 PFK	42.65	1.587e4					1.8	NO		bb		
31	FUNCTION4 PFK	42.57	1.106e4					1.5	NO		bb		
32	FUNCTION4 PFK	42.41	1.738e3					0.4	NO		db		
33	FUNCTION4 PFK	42.37	7.484e3					1.4	NO		dd		
34	FUNCTION4 PFK	42.33	1.057e4					1.5	NO		dd		
35	FUNCTION4 PFK	42.29	7.032e3					1.0	NO		bd		
36	FUNCTION4 PFK	42.22	2.824e3					0.7	NO		bb		
37	FUNCTION4 PFK	42.18	8.840e3					1.2	NO		bb		

ID: BLC0379-DUP1, Name: 23042426, Date: 25-Apr-2023, Time: 11:03:17, Conditions: AUTOSPEC01, User: pk

PFK4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	FUNCTION4 PFK	41.98	2.863e3					0.6	NO		bb		
39	FUNCTION4 PFK	41.71	7.376e3					1.3	NO		bb		
40	FUNCTION4 PFK	41.56	8.026e3					0.6	NO		bb		

ID: BLC0379-DUP1, Name: 23042426, Date: 25-Apr-2023, Time: 11:03:17, Conditions: AUTOSPEC01, User: pk

PFK5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	43.16	1.777e3					0.9	NO		bd		
2	FUNCTION5 PFK	43.10	4.418e3					1.2	NO		bb		
3	FUNCTION5 PFK	43.06	3.436e3					1.1	NO		bb		
4	FUNCTION5 PFK	44.99	2.617e3					1.0	NO		db		
5	FUNCTION5 PFK	44.94	7.827e3					1.3	NO		bd		
6	FUNCTION5 PFK	44.90	3.146e3					1.0	NO		bb		
7	FUNCTION5 PFK	44.74	5.828e3					0.9	NO		db		
8	FUNCTION5 PFK	44.66	1.015e4					1.3	NO		bd		
9	FUNCTION5 PFK	44.46	7.829e3					1.3	NO		bb		
10	FUNCTION5 PFK	44.40	4.098e3					1.1	NO		bb		
11	FUNCTION5 PFK	44.27	3.153e3					0.8	NO		bb		
12	FUNCTION5 PFK	44.10	5.558e3					1.3	NO		bb		
13	FUNCTION5 PFK	43.69	4.898e3					1.1	NO		bb		
14	FUNCTION5 PFK	43.64	1.973e3					0.8	NO		bb		
15	FUNCTION5 PFK	43.43	5.100e3					1.4	NO		db		
16	FUNCTION5 PFK	43.40	4.272e3					1.0	NO		bd		
17	FUNCTION5 PFK	43.30	1.076e3					0.6	NO		bb		
18	FUNCTION5 PFK	43.27	4.948e3					1.3	NO		db		
19	FUNCTION5 PFK	43.19	1.839e4					2.5	NO		dd		
20	FUNCTION5 PFK	45.92	2.422e3					0.7	NO		db		
21	FUNCTION5 PFK	45.88	3.291e3					1.0	NO		bd		
22	FUNCTION5 PFK	45.78	3.067e3					1.1	NO		bb		
23	FUNCTION5 PFK	45.61	3.554e3					1.1	NO		bb		
24	FUNCTION5 PFK	45.56	1.510e4					1.7	NO		db		
25	FUNCTION5 PFK	45.50	5.186e3					1.6	NO		dd		
26	FUNCTION5 PFK	45.46	1.174e4					2.3	NO		dd		
27	FUNCTION5 PFK	45.42	1.015e4					2.1	NO		dd		
28	FUNCTION5 PFK	45.38	1.576e3					0.8	NO		bd		
29	FUNCTION5 PFK	45.26	5.042e3					1.2	NO		bb		
30	FUNCTION5 PFK	45.21	9.223e2					0.5	NO		bb		
31	FUNCTION5 PFK	45.09	3.668e3					0.9	NO		bb		

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ETHERS1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	23.09	1.534e2					2.8	NO		bb		0.000
2	FUNCTION1 HXCD...	22.06	9.258e1					1.8	NO		bb		0.000
3	FUNCTION1 HXCD...	21.24	9.829e1					2.8	NO		bb		0.000
4	FUNCTION1 HXCD...	26.89	7.689e1					1.5	NO		bb		0.000
5	FUNCTION1 HXCD...	26.62	8.095e1					2.6	NO		db		0.000
6	FUNCTION1 HXCD...	26.52	7.950e1					2.3	NO		dd		0.000
7	FUNCTION1 HXCD...	26.45	1.101e2					2.8	NO		dd		0.000
8	FUNCTION1 HXCD...	26.38	8.869e1					3.1	YES		dd		0.000
9	FUNCTION1 HXCD...	26.31	1.969e2					3.8	YES		dd		0.000
10	FUNCTION1 HXCD...	26.20	7.172e1					2.0	NO		dd		0.000
11	FUNCTION1 HXCD...	26.04	1.694e2					3.3	YES		bd		0.000
12	FUNCTION1 HXCD...	25.86	4.595e2					12.5	YES		bb		0.000
13	FUNCTION1 HXCD...	23.54	1.087e2					1.8	NO		bb		0.000

ETHERS2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	31.56	7.676e1					2.4	NO		bb		0.000
2	FUNCTION2 HPCD...	29.74	1.067e2					2.4	NO		bb		0.000
3	FUNCTION2 HPCD...	28.90	7.013e1					1.3	NO		bb		0.000
4	FUNCTION2 HPCD...	28.60	9.027e1					1.4	NO		bb		0.000

ETHERS4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

ETHERS5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	38.36	5.862e3					111.2	YES		bb		0.000

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Printed: Tuesday, April 25, 2023 14:50:46 Pacific Daylight Time

ID: BLC0379-DUP1, Name: 23042426, Date: 25-Apr-2023, Time: 11:03:17, Conditions: AUTOSPEC01, User: pk

ETHERS6

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

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ID: BLC0379-DUP1, Name: 23042426, Date: 25-Apr-2023, Time: 11:03:17, Conditions: AUTOSPEC01, User: pk

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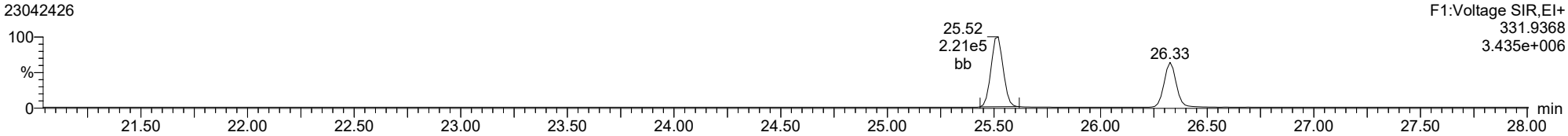

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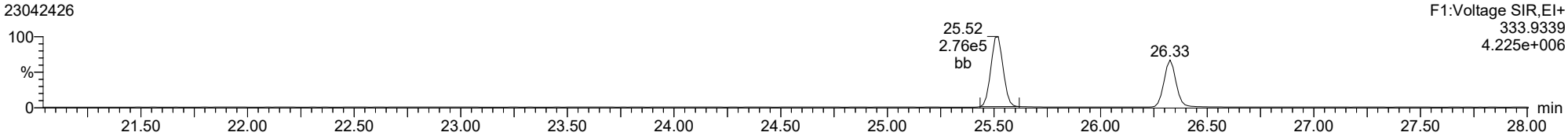

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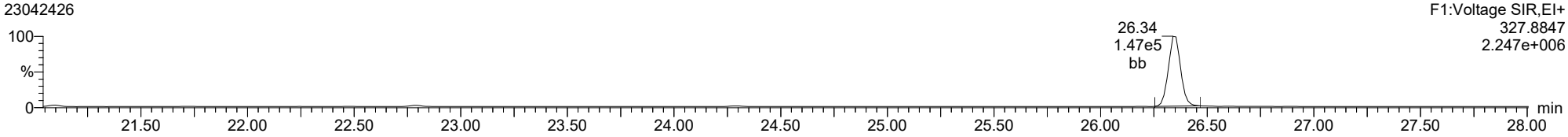

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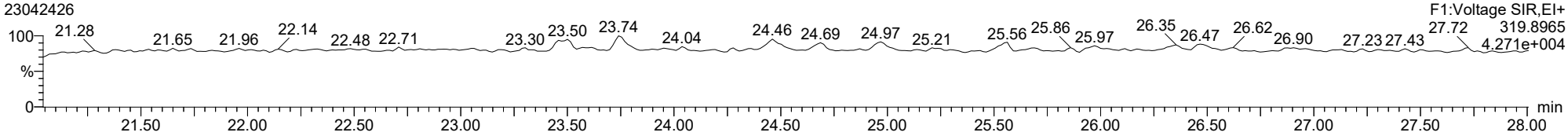

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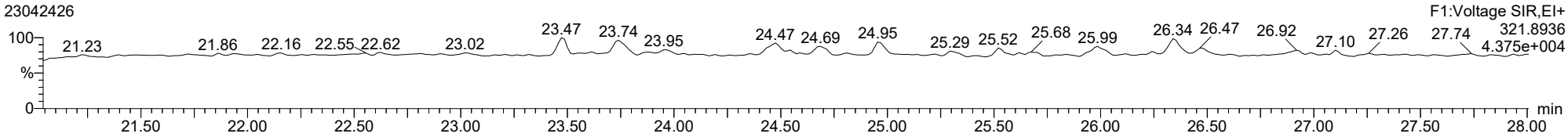

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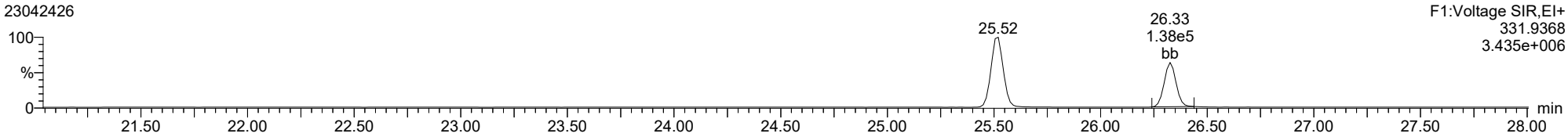

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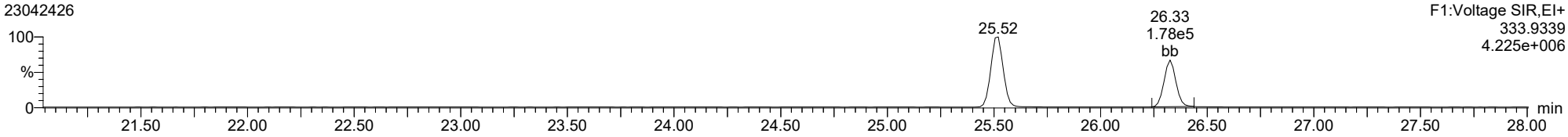
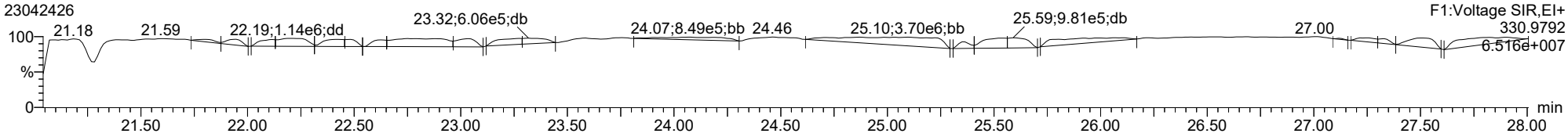


FUNCTION1 PFK



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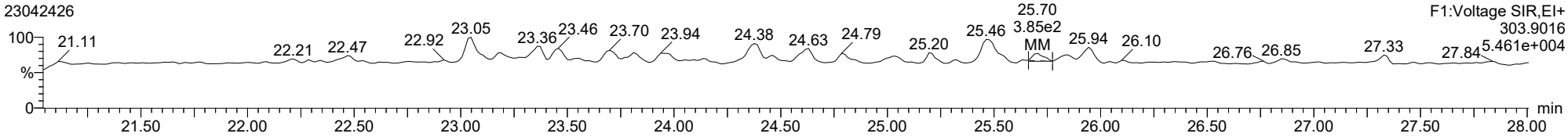

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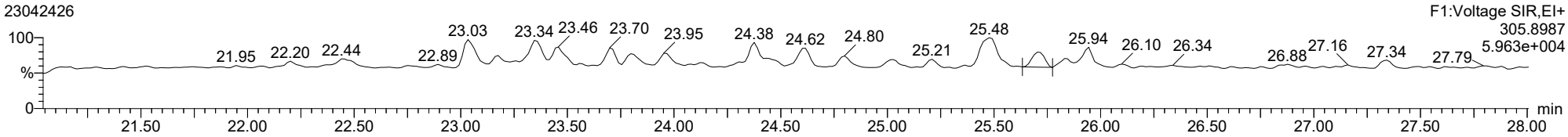

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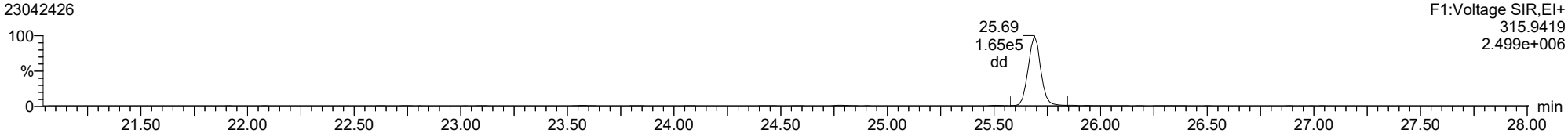

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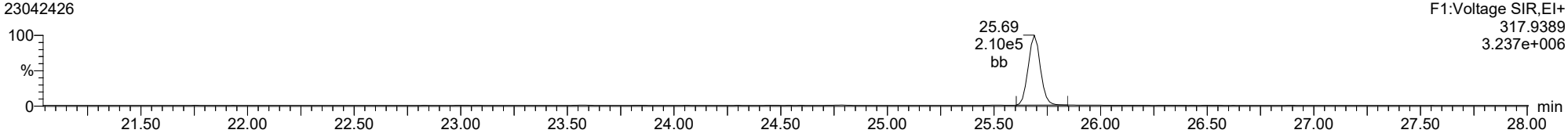
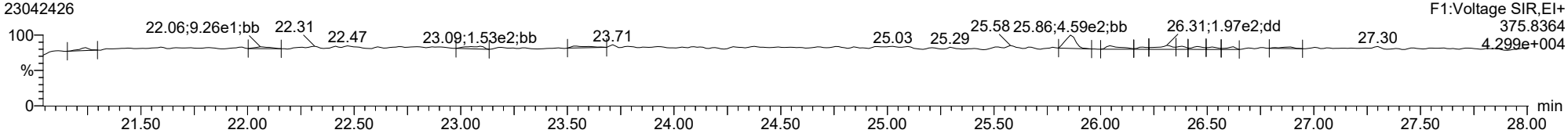


FUNCTION1 HXCDPE



ID: BLC0379-DUP1, Name: 23042426, Date: 25-Apr-2023, Time: 11:03:17, Conditions: AUTOSPEC01, User: pk

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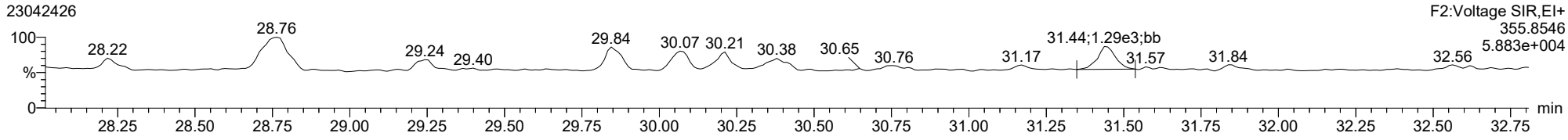

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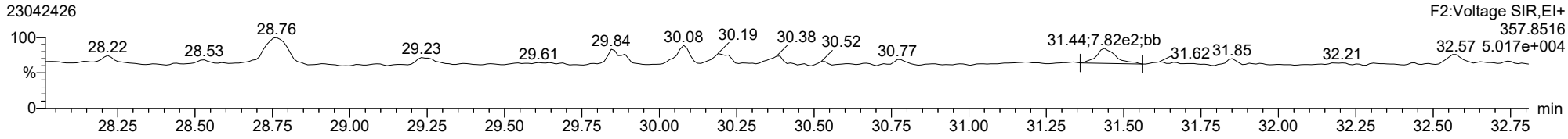

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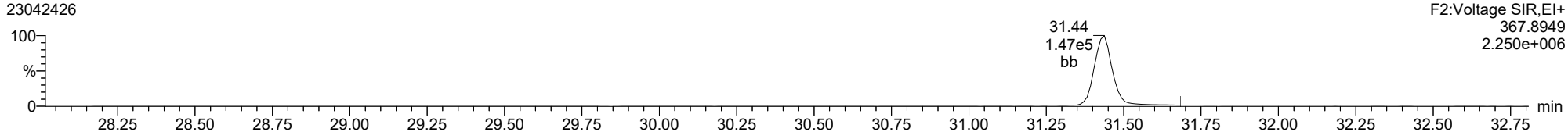

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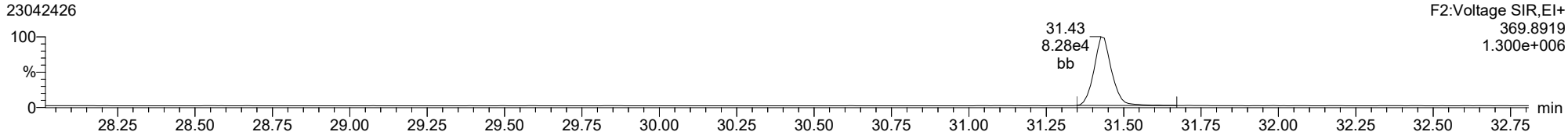
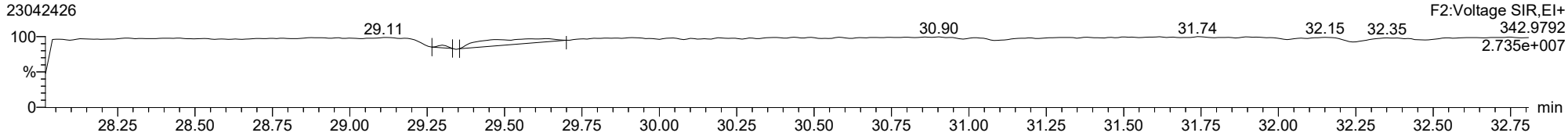


FUNCTION2 PFK



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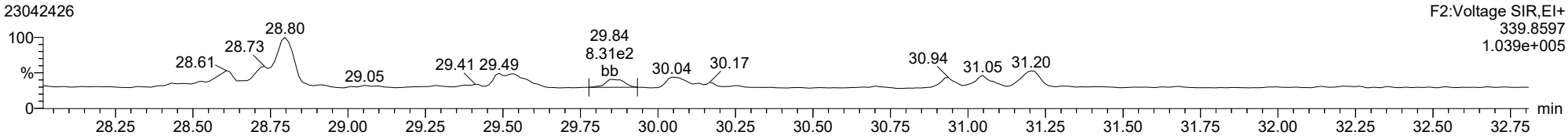

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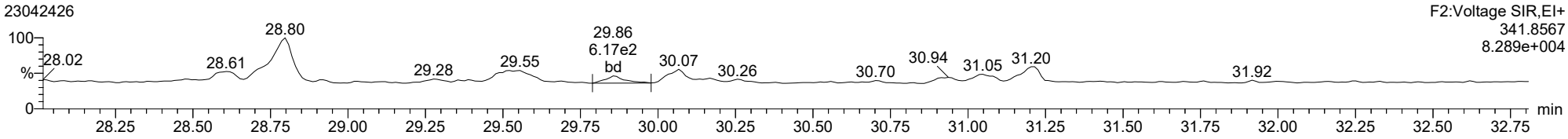

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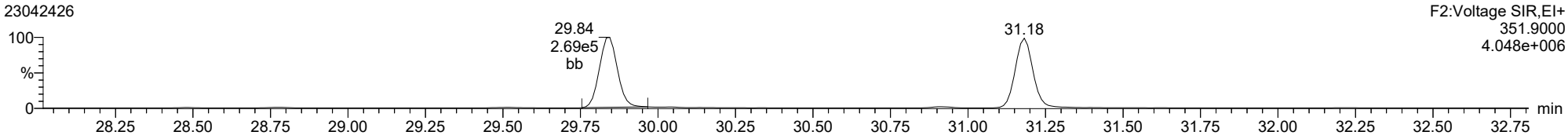

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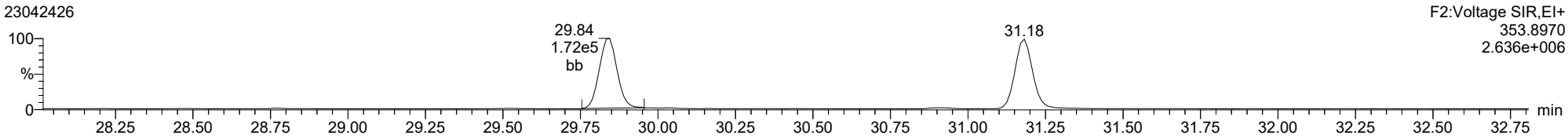

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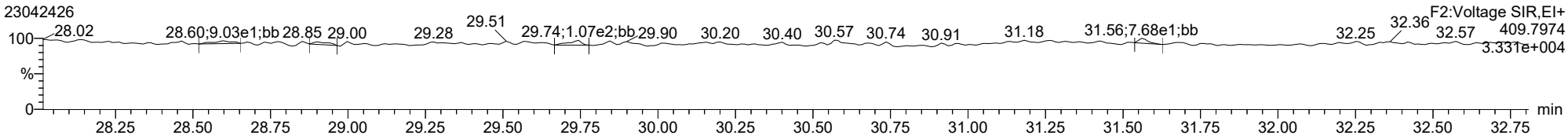

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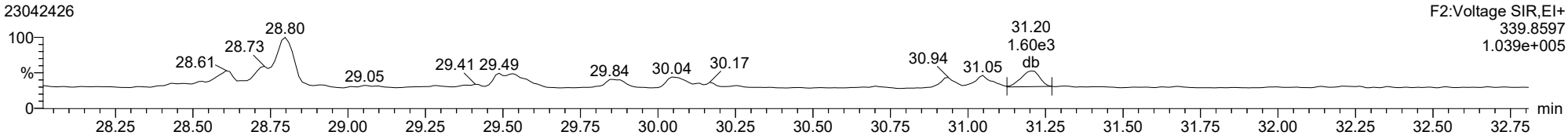
23478-PeCDF



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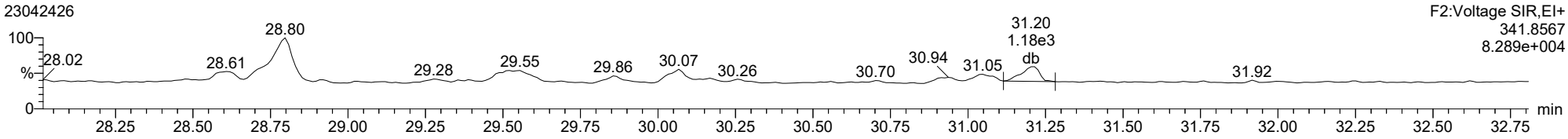

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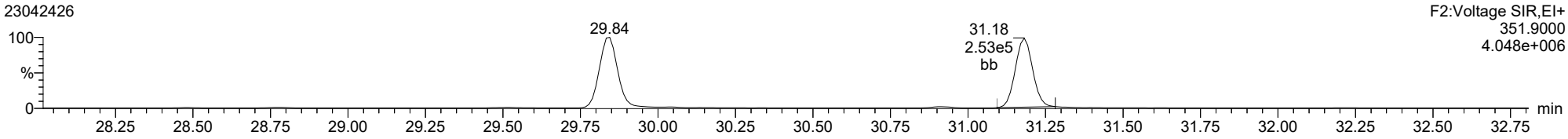

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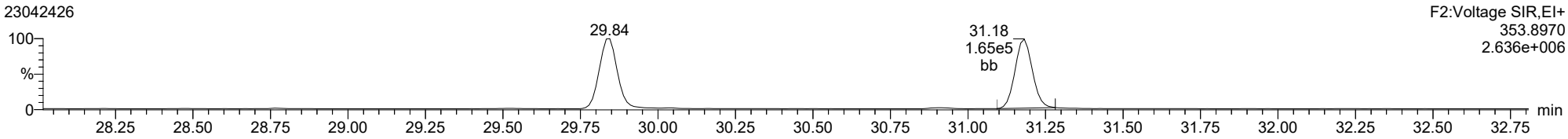
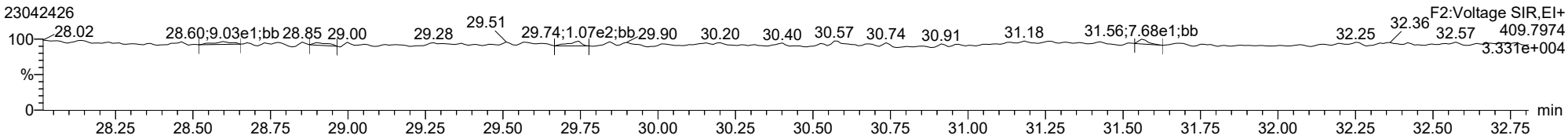


FUNCTION2 HPCDPE



ID: BLC0379-DUP1, Name: 23042426, Date: 25-Apr-2023, Time: 11:03:17, Conditions: AUTOSPEC01, User: pk

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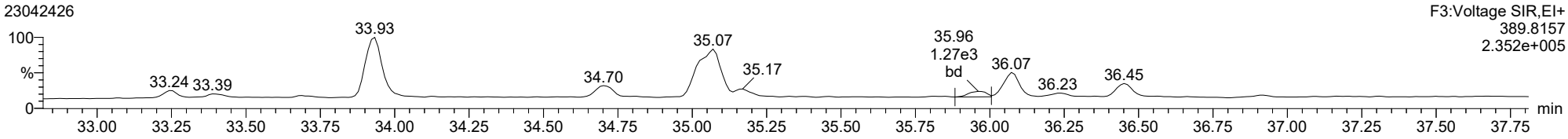

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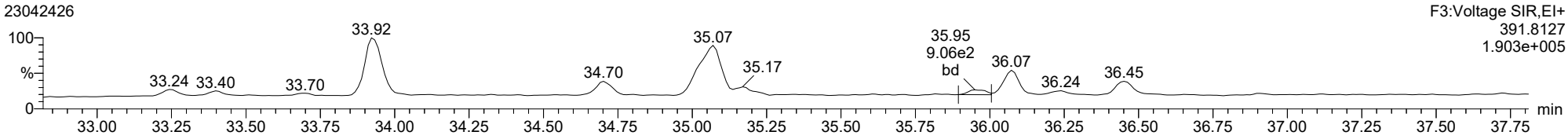

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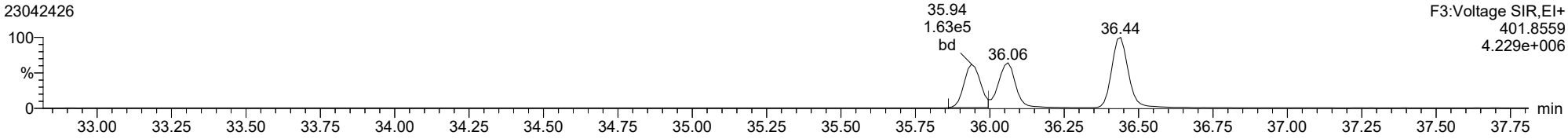

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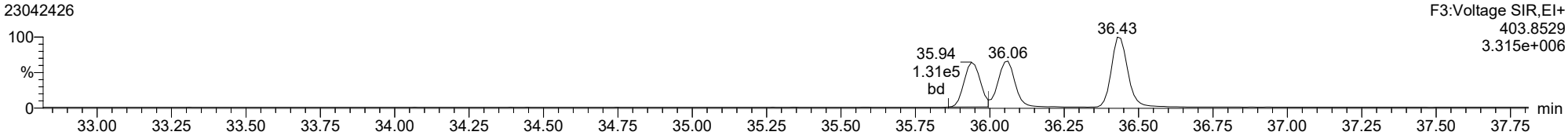

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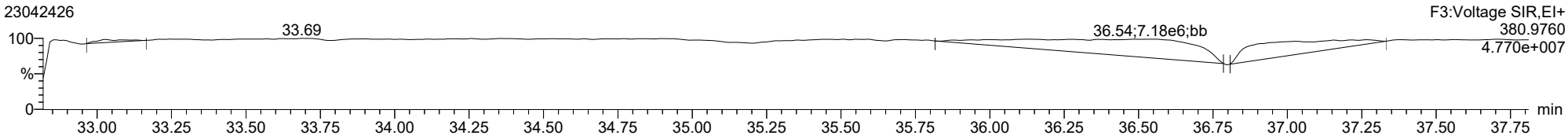

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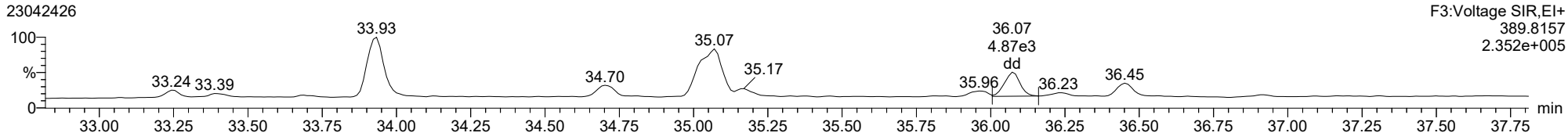

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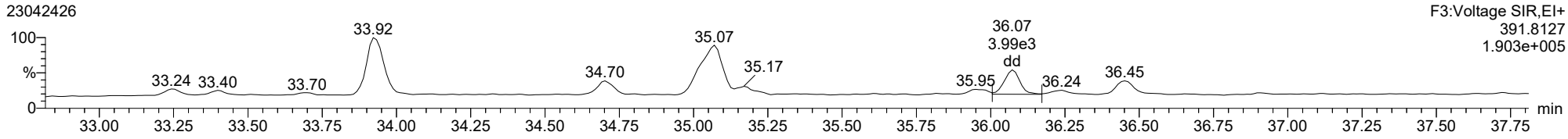

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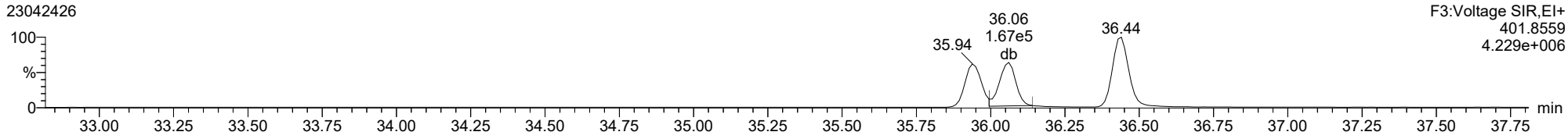

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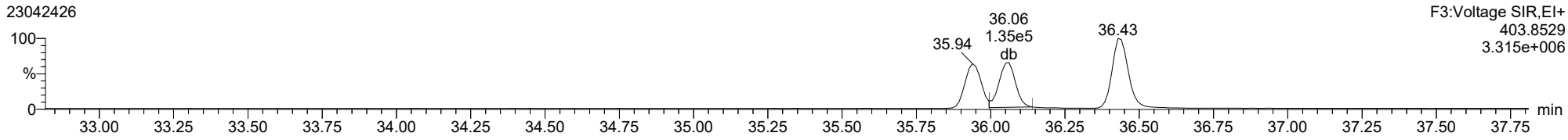

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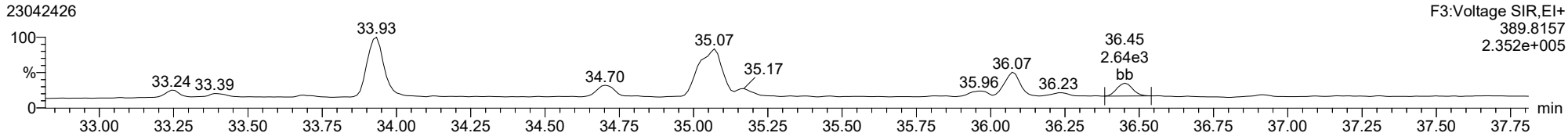

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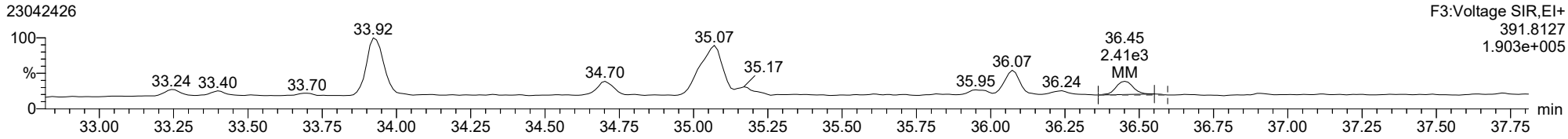

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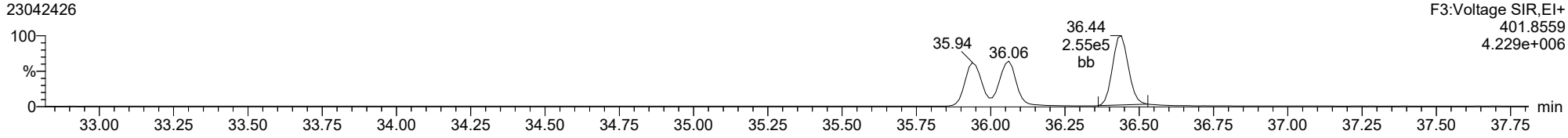

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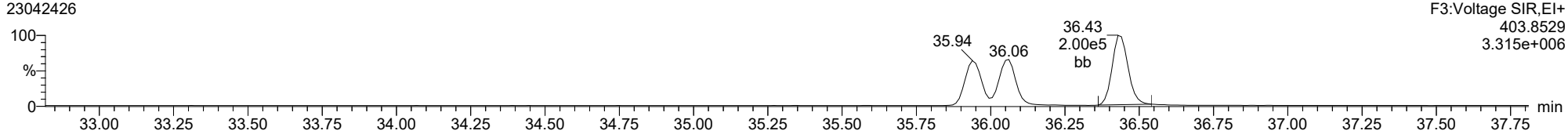

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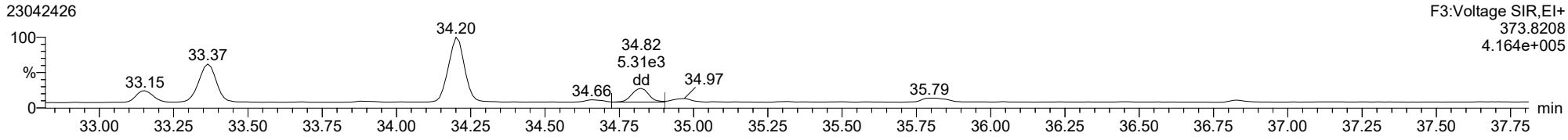

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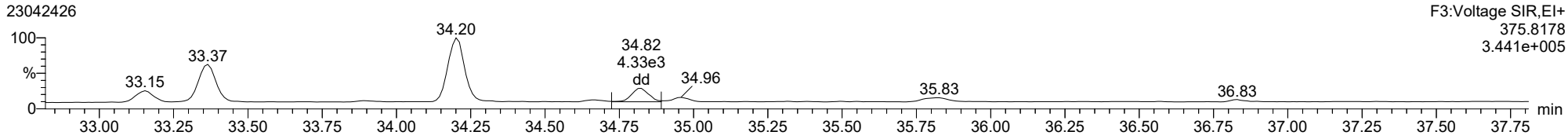

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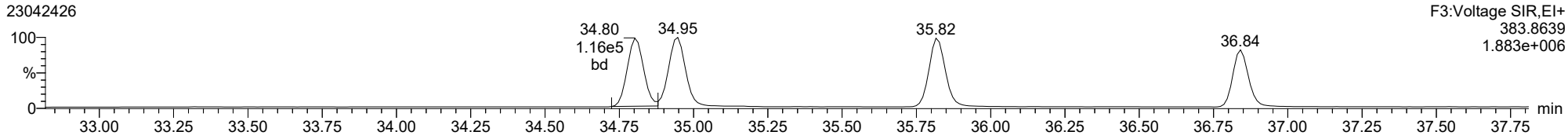

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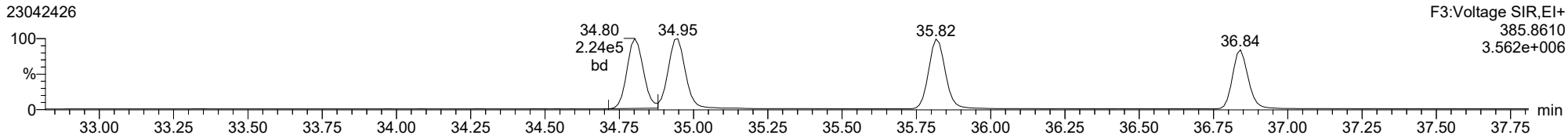

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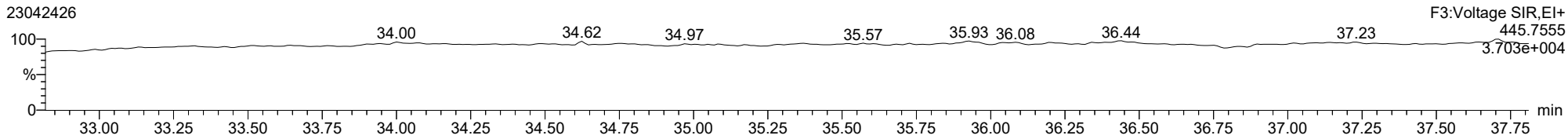

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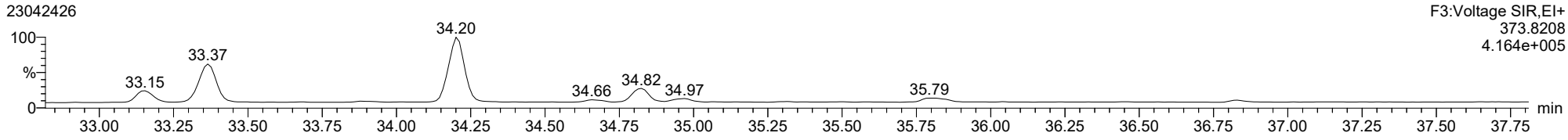
234678-HxCDF



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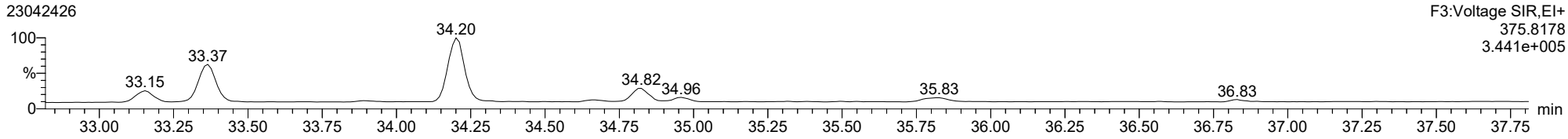

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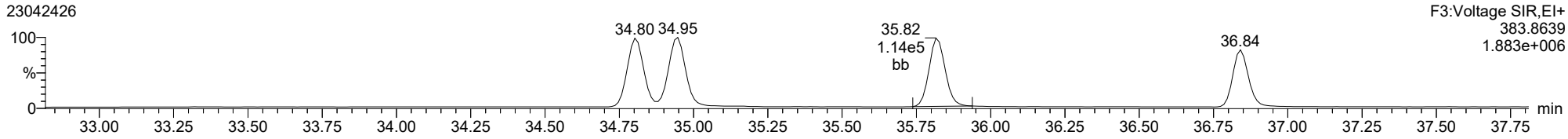

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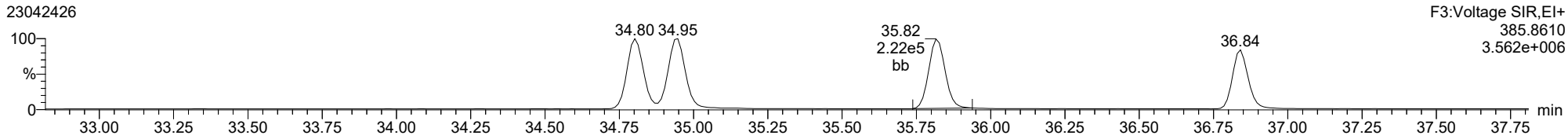
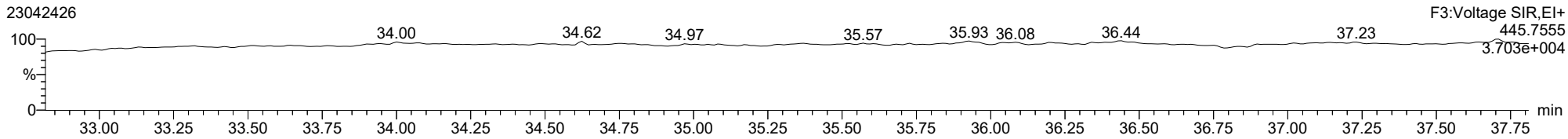


FUNCTION3 OCDPE



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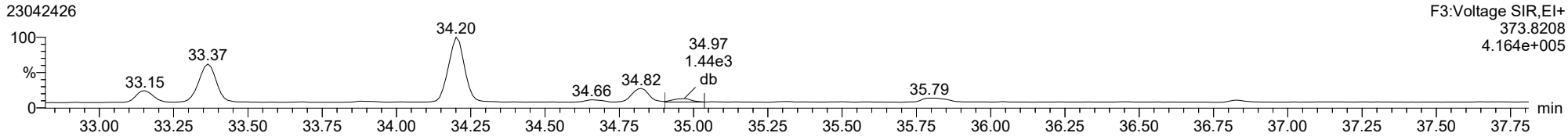

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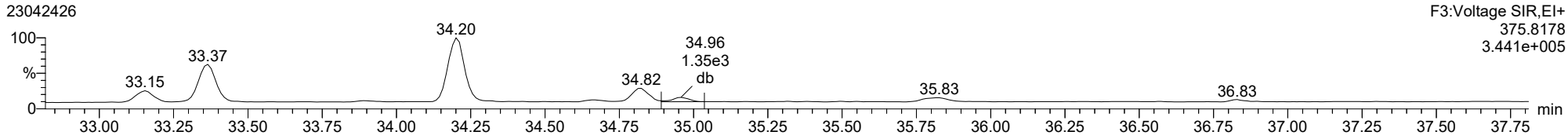

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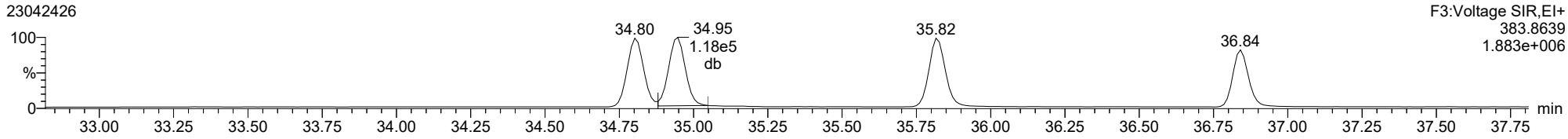

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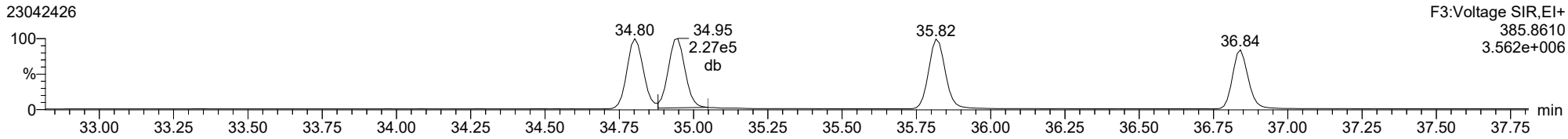
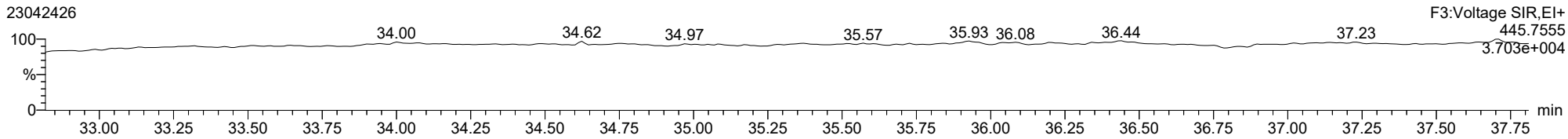


FUNCTION3 OCDPE



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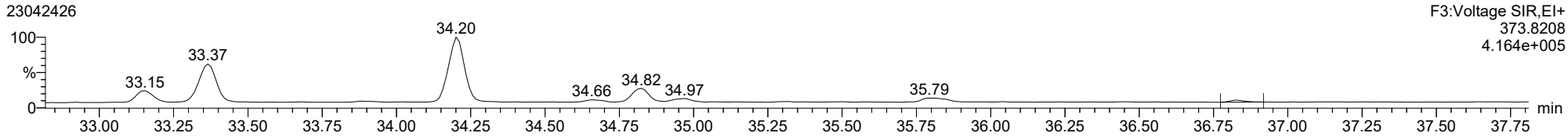

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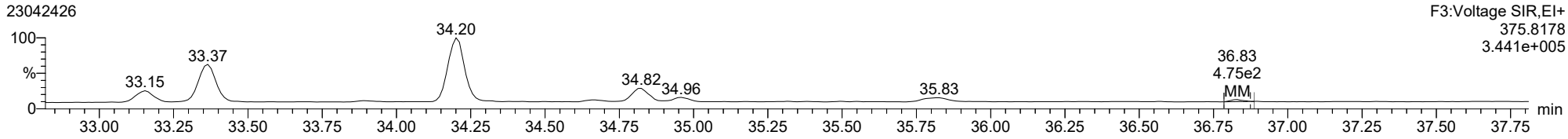

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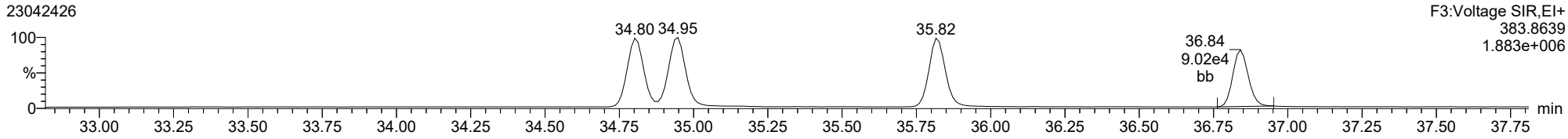

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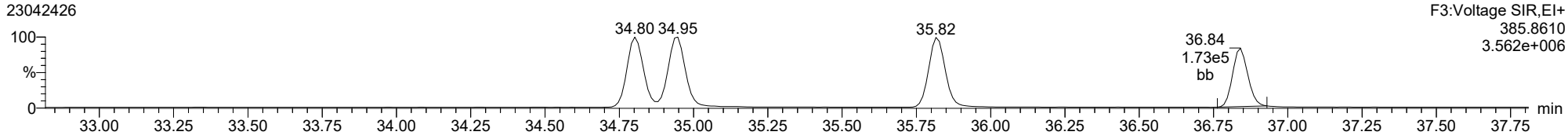
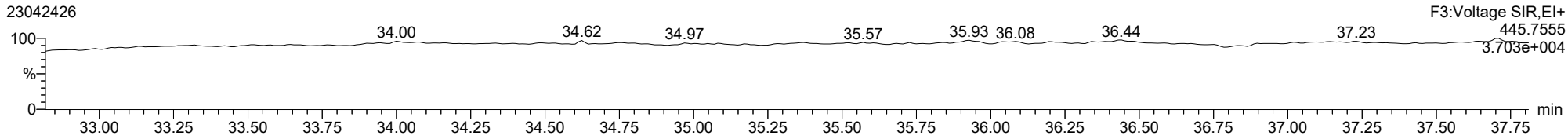


FUNCTION3 OCDPE



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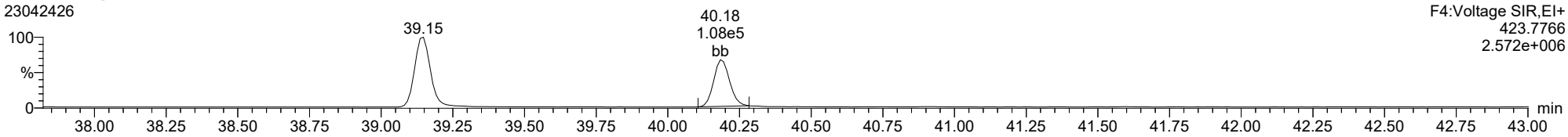
1234678-HpCDD



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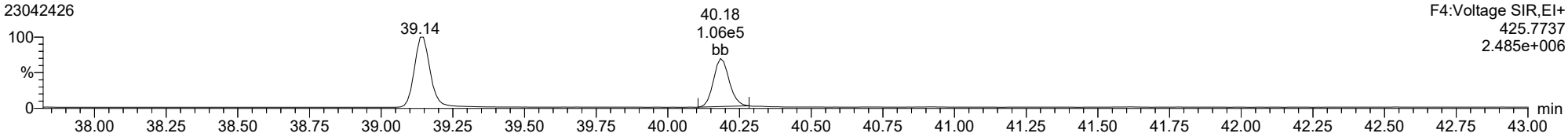

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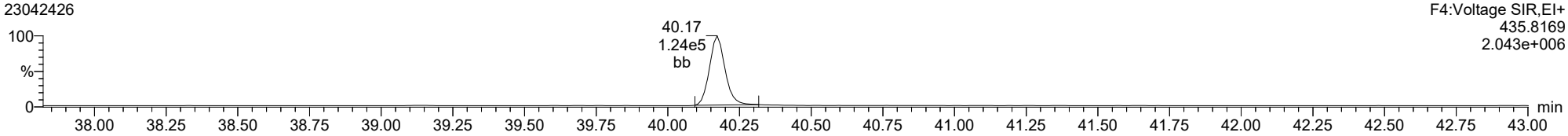

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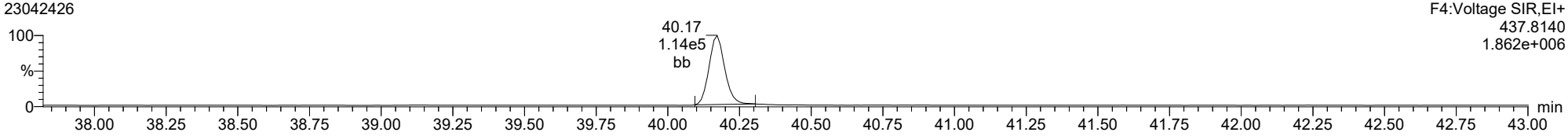
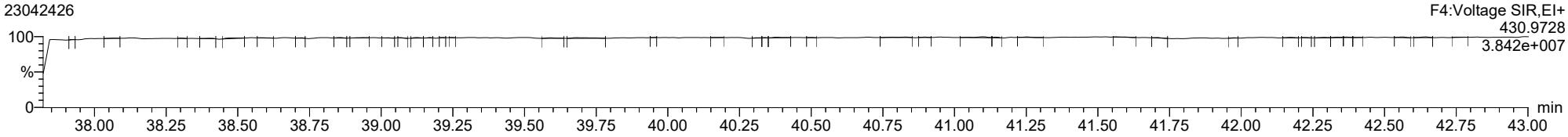


FUNCTION4 PFK



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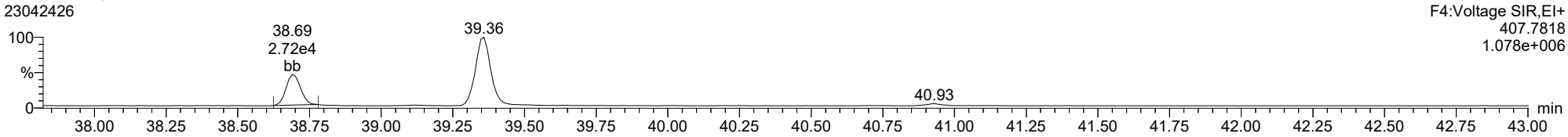

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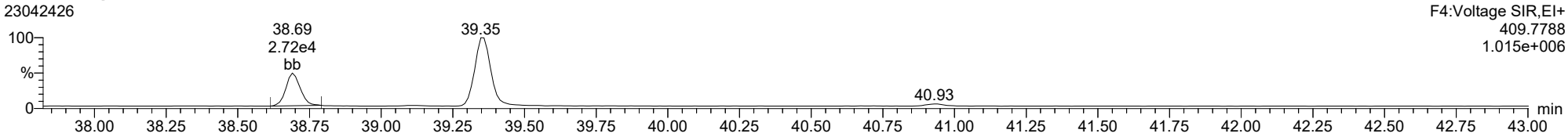

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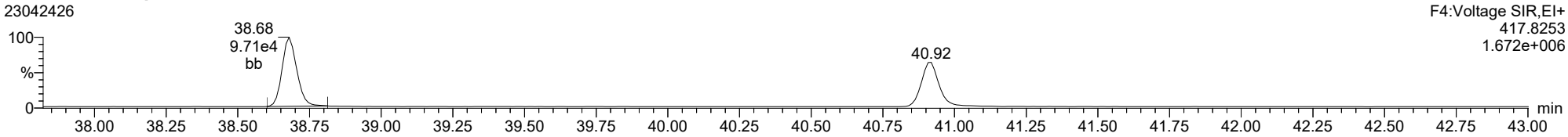

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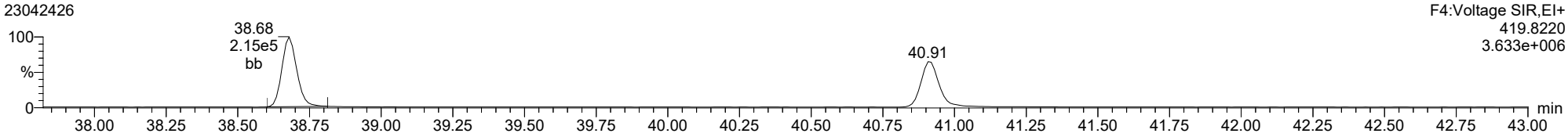
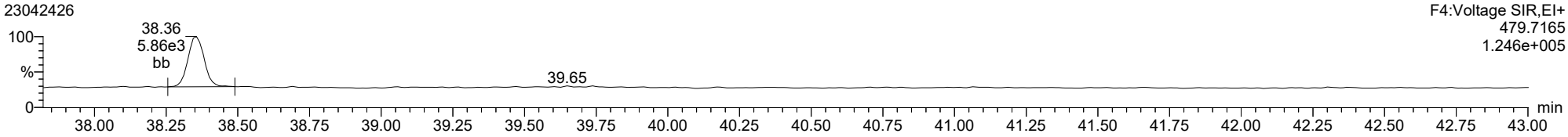


FUNCTION4 NCDPE



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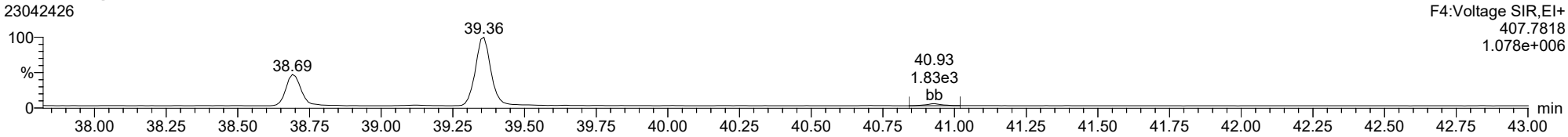
1234789-HpCDF



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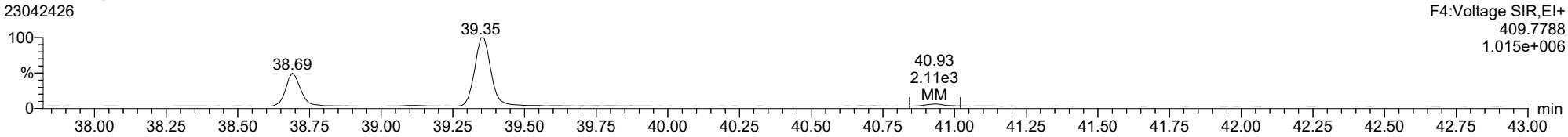

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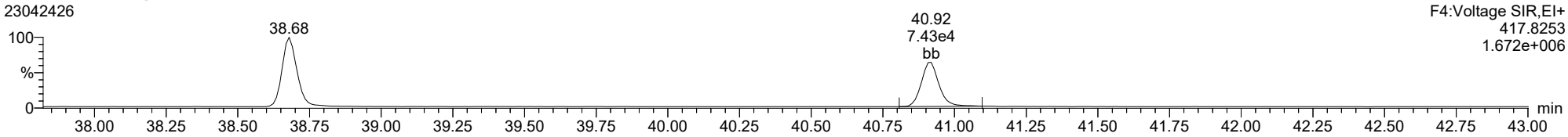

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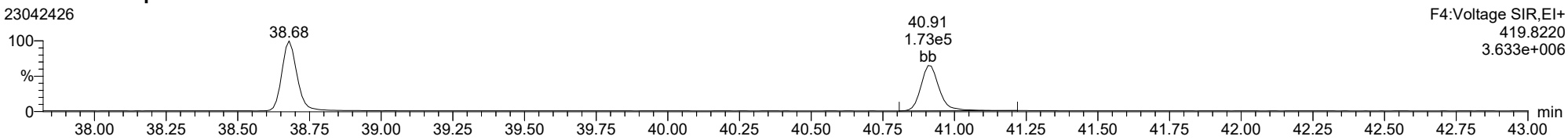
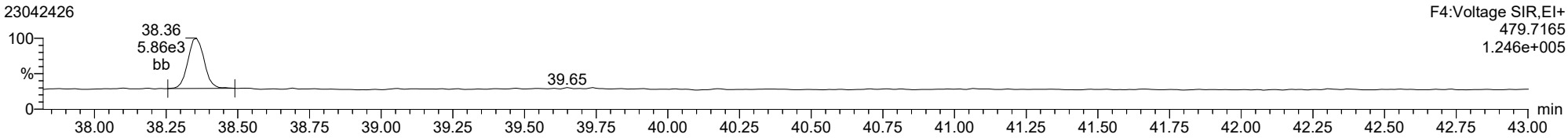
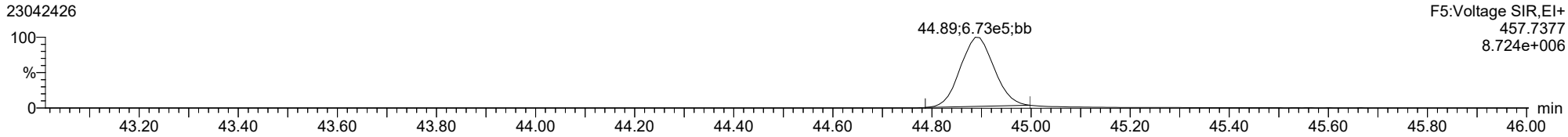


FUNCTION4 NCDPE



ID: BLC0379-DUP1, Name: 23042426, Date: 25-Apr-2023, Time: 11:03:17, Conditions: AUTOSPEC01, User: pk

OCDD



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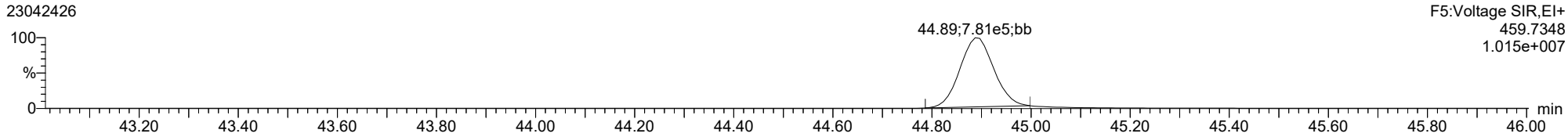
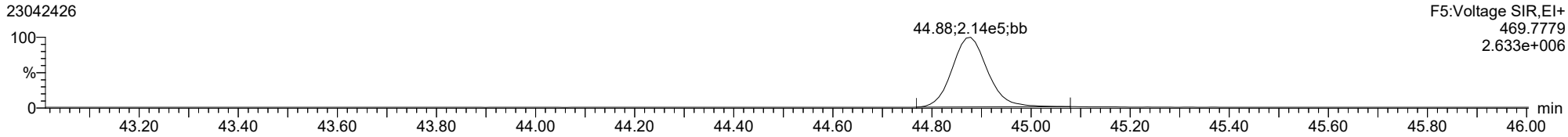
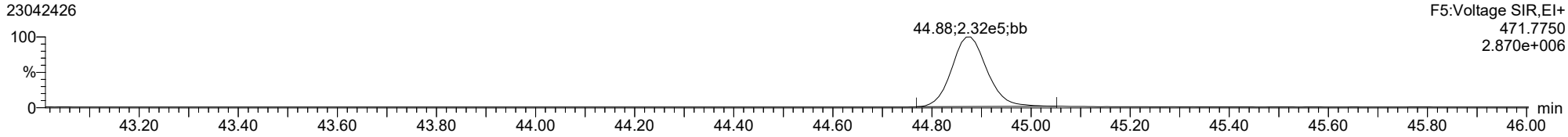


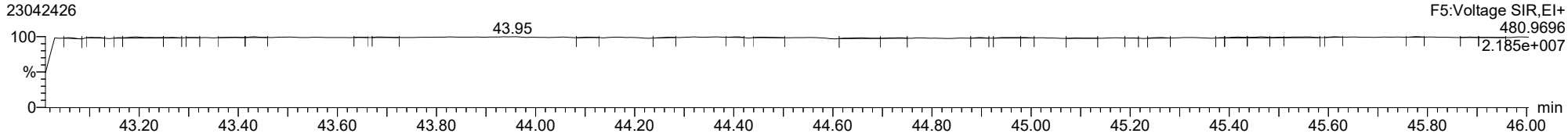
13C-OCDD



13C-OCDD

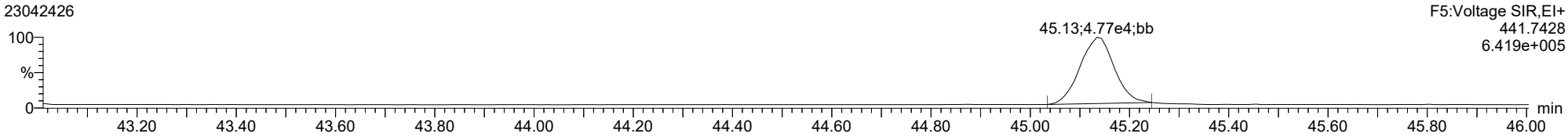


FUNCTION5 PFK

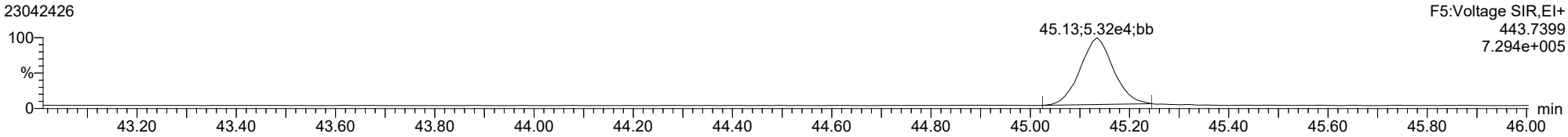


ID: BLC0379-DUP1, Name: 23042426, Date: 25-Apr-2023, Time: 11:03:17, Conditions: AUTOSPEC01, User: pk

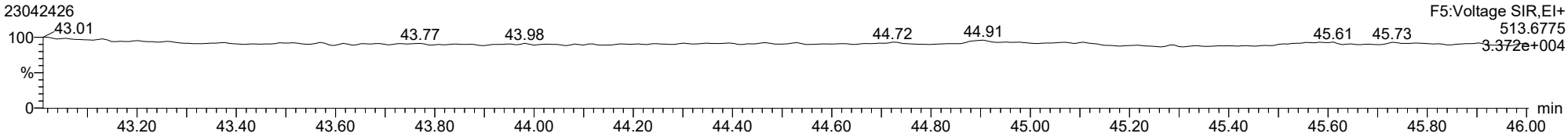
OCDF



OCDF

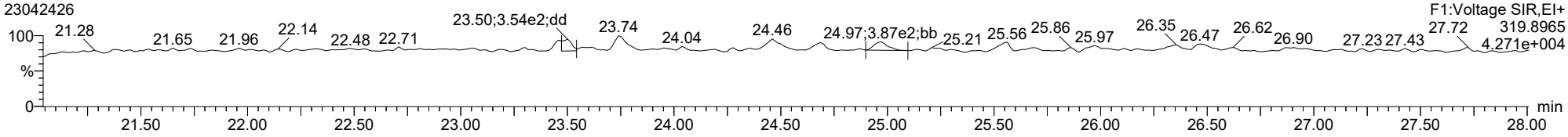


FUNCTION5 DCDPE

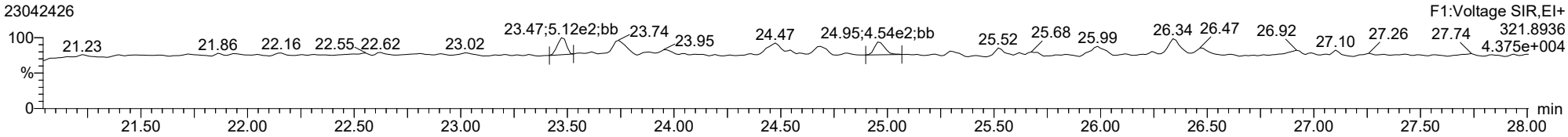


ID: BLC0379-DUP1, Name: 23042426, Date: 25-Apr-2023, Time: 11:03:17, Conditions: AUTOSPEC01, User: pk

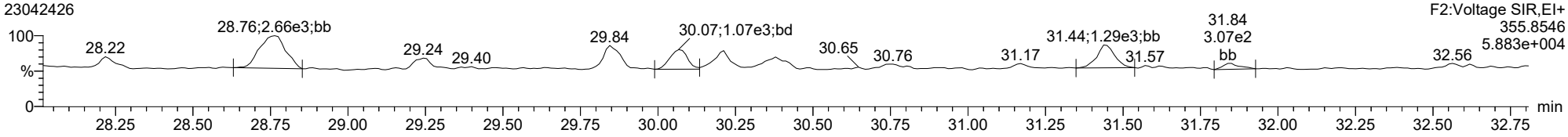
Total-tetradioxins



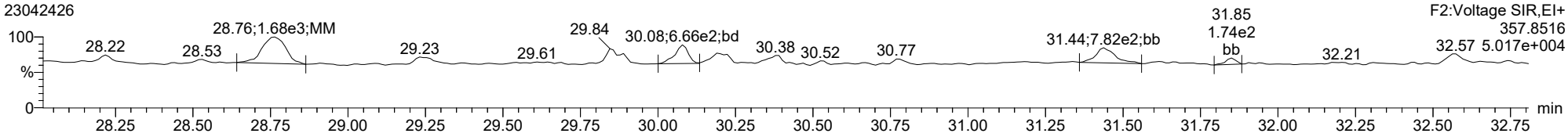
Total-tetradioxins



Total-pentadioxins



Total-pentadioxins



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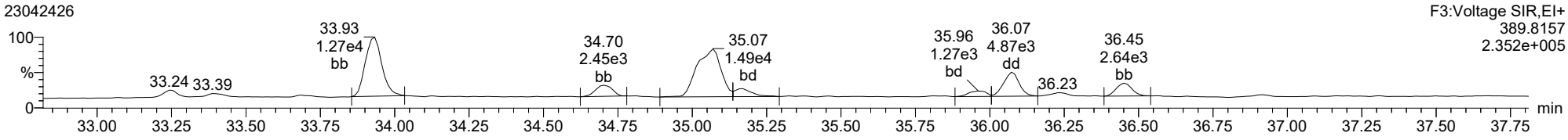
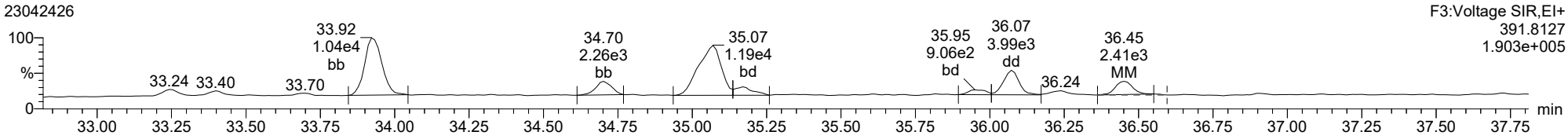
Total-hexadioxins



Total-hexadioxins



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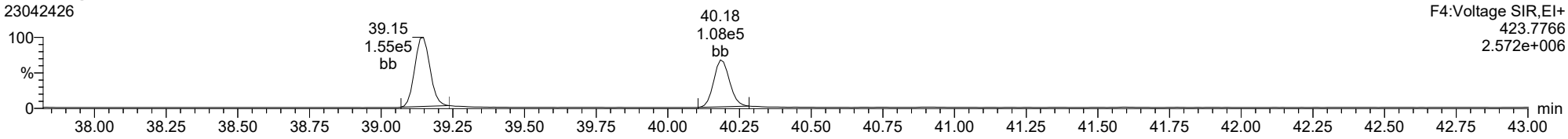
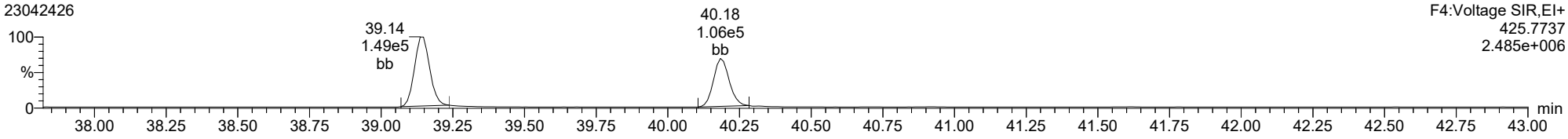
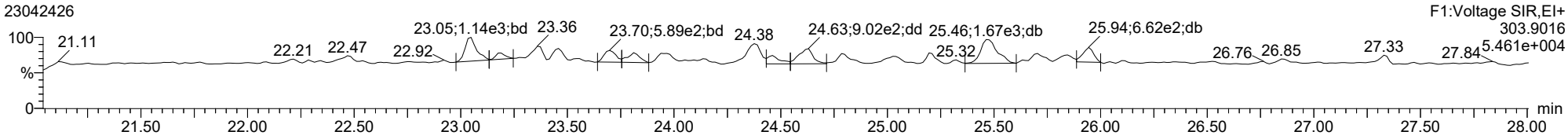


Total-heptadioxins



ID: BLC0379-DUP1, Name: 23042426, Date: 25-Apr-2023, Time: 11:03:17, Conditions: AUTOSPEC01, User: pk

Total-tetrafurans



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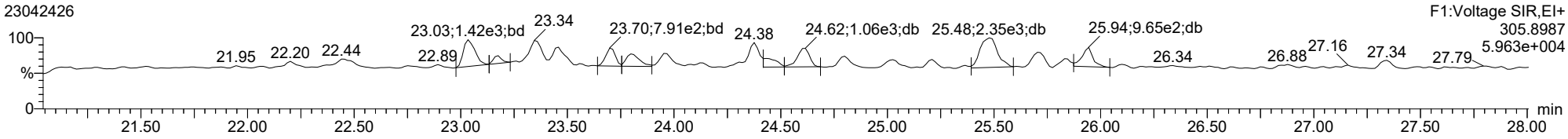

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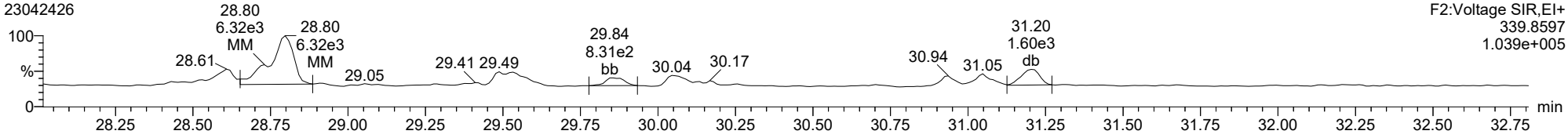
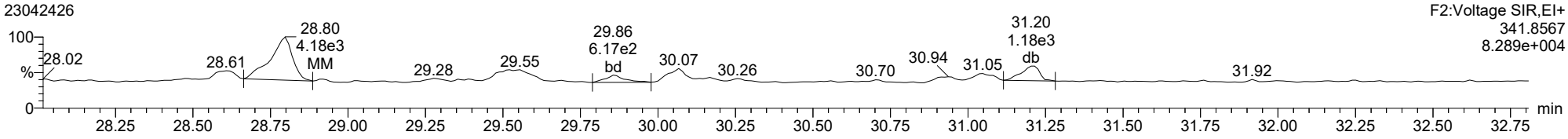
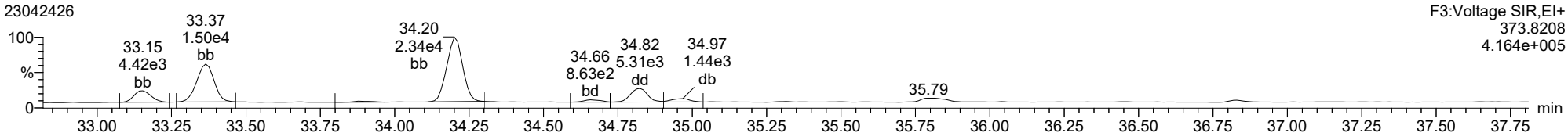


Total-pentafurans

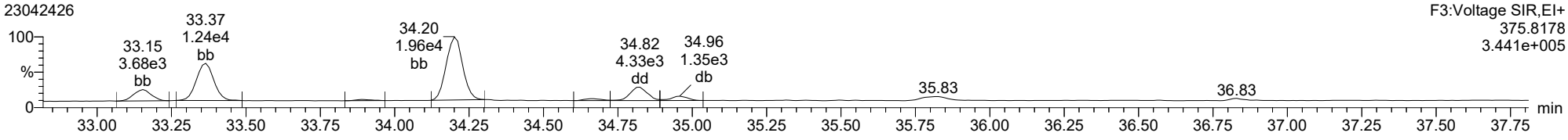


ID: BLC0379-DUP1, Name: 23042426, Date: 25-Apr-2023, Time: 11:03:17, Conditions: AUTOSPEC01, User: pk

Total-hexafurans



Total-hexafurans



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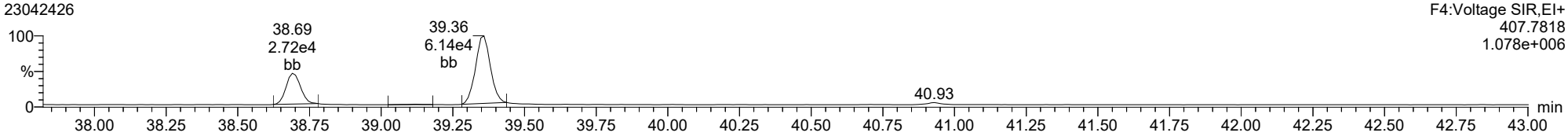
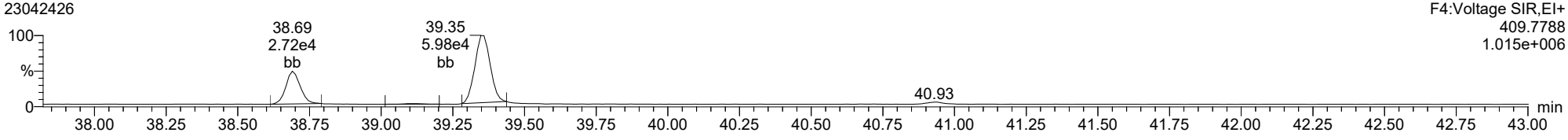


Total-heptafurans



Analytical Resources, LLC
Analytical Chemists and Consultants

STANDARD REFERENCE MATERIAL RECOVERY

EPA 1613B

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Matrix: Solid
Laboratory ID: BLC0379-SRM1
Batch: BLC0379
Initial/Final: 10 g / 20 uL
Preparation: EPA 8290
Analyzed: 04/25/2023 10:14
Standard ID: L001274
Expires: 08/05/2023
Standard Lot#: PSRM0173
Description: Puget Sound reference-SRM

ANALYTE	TRUE (ng/kg wet)	FOUND (ng/kg wet)	MDL	MRL	Q	SRM % REC.	QC LIMITS REC.
2,3,7,8-TCDF	1.1100	1.06	0.804	1.00		95.2	50 - 150
2,3,7,8-TCDD	1.0500	0.995	0.380	1.00	J	94.7	50 - 150
1,2,3,7,8-PeCDF	1.2300	2.15	0.396	1.00	*	175 *	50 - 150
2,3,4,7,8-PeCDF	1.0700	1.67	0.377	1.00	*	156 *	50 - 150
1,2,3,7,8-PeCDD	1.0800	2.22	0.390	1.00	*, B	205 *	50 - 150
1,2,3,4,7,8-HxCDF	3.0200	3.11	0.280	1.00		103	50 - 150
1,2,3,6,7,8-HxCDF	1.0900	1.35	0.200	1.00		124	50 - 150
2,3,4,6,7,8-HxCDF	1.8300	1.91	0.170	1.00		104	50 - 150
1,2,3,7,8,9-HxCDF	0.51100	1.17	0.190	1.00	*	228 *	50 - 150
1,2,3,4,7,8-HxCDD	1.5900	1.93	0.301	1.00		121	50 - 150
1,2,3,6,7,8-HxCDD	3.8800	4.50	0.270	1.00		116	50 - 150
1,2,3,7,8,9-HxCDD	3.0400	4.27	0.313	1.00		141	50 - 150
1,2,3,4,6,7,8-HpCDF	18.700	20.1	0.210	1.00		108	50 - 150
1,2,3,4,7,8,9-HpCDF	1.6300	2.15	0.262	1.00		132	50 - 150
1,2,3,4,6,7,8-HpCDD	90.600	107	0.560	2.50		118	50 - 150
OCDF	58.400	64.0	1.10	2.50		110	50 - 150
OCDD	811.00	1010	4.60	10.0	B	125	50 - 150

* Values outside of QC limits

Dataset: T:\Autospec\Processed Data Batch\230424D2.qld
Last Altered: Tuesday, April 25, 2023 14:48:36 Pacific Daylight Time
Printed: Tuesday, April 25, 2023 14:50:33 Pacific Daylight Time

Method: T:\Autospec\Methods\Dioxin230424.mdb 25 Apr 2023 07:59:40
Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 11:57:27

ID: BLC0379-SRM1, Name: 23042425, Date: 25-Apr-2023, Time: 10:14:25, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	25.689	1.001	3.957e2	4.473e2	0.702	0.885	0.770	998	2103	5.44e3	7.90e3	5.4	3.8	NO	MM	bd	0.529
12378-PeCDF	29.855	1.001	1.866e3	1.268e3	0.679	1.472	1.550	1392	1407	2.84e4	1.70e4	20.4	12.1	NO	bb	bd	1.076
23478-PeCDF	31.192	1.001	1.453e3	1.055e3	0.786	1.378	1.550	1392	1407	1.92e4	1.35e4	13.8	9.6	NO	bb	bb	0.833
123478-HxCDF	34.824	1.001	3.814e3	3.088e3	1.166	1.235	1.240	897	633	5.57e4	4.96e4	62.1	78.4	NO	dd	bd	1.553
234678-HxCDF	35.838	1.000	2.627e3	2.492e3	1.140	1.054	1.240	897	633	3.48e4	3.55e4	38.8	56.1	NO	bb	MM	0.953
123678-HxCDF	34.969	1.001	1.778e3	1.417e3	1.091	1.255	1.240	897	633	2.78e4	2.35e4	31.0	37.1	NO	db	db	0.677
123789-HxCDF	36.841	1.000	1.292e3	1.092e3	1.137	1.183	1.240	897	633	1.86e4	1.48e4	20.7	23.4	NO	bb	bb	0.583
1234678-HpCDF	38.690	1.000	2.194e4	2.132e4	1.003	1.029	1.050	852	1084	3.70e5	3.55e5	434.3	327.1	NO	bb	bb	10.061
1234789-HpCDF	40.941	1.001	2.021e3	1.535e3	0.953	1.317	1.050	852	1084	3.05e4	2.43e4	35.8	22.5	YES	bb	bb	1.073
OCDF	45.153	1.006	3.742e4	4.254e4	0.778	0.880	0.890	959	794	4.40e5	5.22e5	458.2	657.8	NO	bb	bb	31.979
2378-TCDD	26.353	1.001	5.185e2	5.948e2	1.149	0.872	0.770	987	1069	7.68e3	9.32e3	7.8	8.7	NO	MM	bb	0.497
12378-PeCDD	31.437	1.000	1.627e3	9.176e2	1.022	1.773	1.550	1212	925	2.58e4	1.42e4	21.3	15.4	NO	bb	bb	1.108
123478-HxCDD	35.961	1.000	1.676e3	1.473e3	0.996	1.138	1.240	1603	948	2.59e4	2.34e4	16.2	24.7	NO	bd	bd	0.964
123678-HxCDD	36.083	1.001	4.334e3	3.692e3	1.001	1.174	1.240	1603	948	7.10e4	5.53e4	44.3	58.3	NO	dd	dd	2.252
123789-HxCDD	36.462	1.011	3.599e3	3.032e3	0.907	1.187	1.240	1603	948	6.02e4	4.87e4	37.6	51.3	NO	bb	bb	2.137
1234678-HpCDD	40.183	1.000	9.424e4	9.265e4	1.039	1.017	1.050	1676	2132	1.43e6	1.41e6	851.1	660.8	NO	bb	bb	53.368
OCDD	44.905	1.000	6.922e5	8.019e5	0.920	0.863	0.890	2727	1562	8.50e6	9.74e6	3115.8	6232.2	NO	bb	bb	505.208
13C-2378-TCDF	25.675	1.007	9.731e4	1.301e5	1.620	0.748	0.770	1270	1056	1.41e6	1.90e6	1111.1	1800.8	NO	bb	bd	25.847
13C-12378-PeCDF	29.833	1.170	2.635e5	1.652e5	1.240	1.595	1.550	1428	2396	3.84e6	2.47e6	2687.4	1029.1	NO	bd	bb	63.653
13C-23478-PeCDF	31.170	1.222	2.333e5	1.498e5	1.118	1.558	1.550	1428	2396	3.46e6	2.26e6	2418.9	943.3	NO	bb	bb	63.119
13C-123478-HxCDF	34.802	0.955	1.293e5	2.519e5	1.168	0.513	0.510	1189	2487	1.94e6	3.87e6	1631.8	1555.4	NO	bd	bd	64.483
13C-123678-HxCDF	34.947	0.959	1.474e5	2.854e5	1.386	0.516	0.510	1189	2487	2.17e6	4.29e6	1822.8	1725.0	NO	db	db	61.689
13C-234678-HxCDF	35.827	0.983	1.625e5	3.090e5	1.129	0.526	0.510	1189	2487	2.44e6	4.63e6	2053.3	1861.9	NO	bb	bb	82.510
13C-123789-HxCDF	36.841	1.011	1.223e5	2.369e5	0.932	0.516	0.510	1189	2487	2.17e6	4.22e6	1821.2	1695.6	NO	bb	bb	76.198
13C-1234678-HpCDF	38.679	1.061	1.326e5	2.961e5	0.895	0.448	0.440	924	1349	2.10e6	4.77e6	2278.2	3540.3	NO	bb	bb	94.644
13C-1234789-HpCDF	40.907	1.123	1.068e5	2.410e5	0.770	0.443	0.440	924	1349	1.43e6	3.22e6	1546.7	2389.3	NO	bb	bb	89.283
13C-1234-TCDD	25.506	0.000	2.395e5	3.035e5	1.000	0.789	0.770	1531	1002	3.62e6	4.57e6	2366.9	4563.7	NO	bb	bb	100.000
13C-2378-TCDD	26.325	1.032	8.494e4	1.099e5	1.152	0.773	0.770	1531	1002	1.23e6	1.63e6	804.2	1621.4	NO	bb	bb	31.141
13C-12378-PeCDD	31.426	1.232	1.381e5	8.660e4	0.829	1.595	1.550	1218	1004	1.98e6	1.21e6	1623.8	1203.3	NO	bb	bb	49.940
13C-123478-HxCDD	35.950	0.987	1.836e5	1.444e5	0.995	1.272	1.240	1755	1872	2.86e6	2.35e6	1628.5	1254.7	NO	bd	bd	65.142
13C-123678-HxCDD	36.061	0.990	2.008e5	1.553e5	1.157	1.293	1.240	1755	1872	3.20e6	2.52e6	1823.2	1344.3	NO	db	db	60.837
13C-1234678-HpCDD	40.172	1.102	1.761e5	1.610e5	0.840	1.094	1.050	1163	1400	2.66e6	2.43e6	2285.7	1735.5	NO	bb	bb	79.286
13C-OCDD	44.887	1.232	3.092e5	3.337e5	0.767	0.927	0.890	1677	1476	3.43e6	3.82e6	2046.4	2585.1	NO	bd	bb	165.555
13C-123789-HxCDD	36.440	0.000	2.766e5	2.294e5	1.000	1.206	1.240	1755	1872	4.41e6	3.63e6	2514.5	1938.5	NO	bb	bb	100.000
37CL-2378-TCDD	26.339	1.033	8.120e4		1.288			1320		1.24e6		936.7			bb		11.612

Dataset: T:\Autospec\Processed Data Batch\230424D2.qld
Last Altered: Tuesday, April 25, 2023 14:48:36 Pacific Daylight Time
Printed: Tuesday, April 25, 2023 14:50:33 Pacific Daylight Time

ID: BLC0379-SRM1, Name: 23042425, Date: 25-Apr-2023, Time: 10:14:25, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF					0.802		0.770	998	2103								
1289-TCDF					0.678		0.770	998	2103								
13468-PECDF	27.045	0.907	8.233e2	4.299e2	1.246	1.915	1.550	741	977	1.42e4	8.76e3	19.2	9.0	YES	dd	bd	0.235
12389-PECDF					0.496		1.550	1392	1407								
123468-HXCDF	33.142	0.952	3.803e3	2.925e3	1.169	1.300	1.240	897	633	5.44e4	4.45e4	60.7	70.3	NO	bd	bb	1.510
1368-TCDD	23.458	0.891	2.965e2	2.604e2	1.015	1.138	0.770	987	1069	3.87e3	4.00e3	3.9	3.7	YES	db	bb	0.281
1289-TCDD	26.876	1.021	6.016e2	6.317e2	0.909	0.952	0.770	987	1069	8.22e3	8.37e3	8.3	7.8	YES	db	bb	0.697
12479-PECDD	28.775	0.916	8.722e2	6.625e2	2.301	1.317	1.550	1212	925	1.38e4	1.04e4	11.4	11.2	YES	db	db	0.297
12389-PECDD	31.850	1.013	2.944e2	2.418e2	1.184	1.218	1.550	1212	925	5.40e3	4.91e3	4.5	5.3	YES	bb	bd	0.202
124679-HXCDD	33.933	0.944	9.832e3	8.181e3	1.115	1.202	1.240	1603	948	1.48e5	1.17e5	92.5	123.2	NO	bb	bb	4.924
1234679-HPCDD	39.147	0.974	1.368e5	1.300e5	1.137	1.052	1.050	1676	2132	2.26e6	2.14e6	1346.2	1003.0	NO	bb	bb	69.626
Total-tetrafurans			2.171e3		0.727			998		3.05e4							3.037
Total-penta1			6.328e3					741		8.62e4							2.579
Total-pentafurans			6.670e3		0.654			1392		1.01e5							3.970
Total-hexafurans			3.884e4		1.141			897		5.63e5							14.937
Total-heptafurans			6.258e4		0.978			852		9.99e5							30.892
Total-Furans			1.540e5		0.922			998		2.22e6							87.394
Total-tetradioxins			1.086e3		1.024			987		1.57e4							1.201
Total-pentadioxins			2.104e3		1.502			1212		3.25e4							1.349
Total-hexadioxins			3.334e4		1.005			1603		4.70e5							17.575
Total-heptadioxins			2.310e5		1.088			1676		3.68e6							122.994
Total-Dioxins			9.597e5		1.130			987		1.27e7							648.327
Total-TEQ			1.114e6					987		1.49e7							735.721
FUNCTION1 PFK			9.296e6					466047		4.22e7							
FUNCTION2 PFK			5.827e5					242151		5.00e6							0.000
FUNCTION3 PFK			1.532e7					238632		3.26e7							0.000
FUNCTION4 PFK			1.719e5					286570		3.26e6							
FUNCTION5 PFK			0.000e0					148018		0.00e0							
FUNCTION1 HXCD...			1.273e3					597		1.72e4							0.000
FUNCTION1 HPCD...																	
FUNCTION2 HPCD...			1.572e2					895		3.94e3							0.000
FUNCTION3 OCDPE			1.866e2					553		3.04e3							0.000
FUNCTION4 NCDPE			1.779e3					711		2.92e4							0.000
FUNCTION5 DCDPE			9.314e1					546		1.66e3							0.000

Method: T:\Autospec\Methods\Dioxin230424.mdb 25 Apr 2023 07:59:40
Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 11:57:27

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TF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	23.82	3.803e2	5.596e2	0.727	0.68	0.77	5.3	YES	NO	dd	dd	0.569
2	2378-TCDF	25.69	3.957e2	4.473e2	0.702	0.88	0.77	5.4	YES	NO	MM	bd	0.529
3	Total-tetrafurans	25.46	4.847e2	6.663e2	0.727	0.73	0.77	7.8	YES	NO	dd	bb	0.696
4	Total-tetrafurans	24.79	6.248e2	7.300e2	0.727	0.86	0.77	8.7	YES	NO	db	db	0.820
5	Total-tetrafurans	24.60	2.858e2	4.152e2	0.727	0.69	0.77	3.3	YES	NO	dd	bd	0.424

PP

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-penta1	27.13	6.328e3	3.810e3		1.66	1.55	116.3	YES	NO	db	db	2.579

PF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	23478-PeCDF	31.19	1.453e3	1.055e3	0.786	1.38	1.55	13.8	YES	NO	bb	bb	0.833
2	Total-pentafurans	31.05	4.642e2	2.837e2	0.654	1.64	1.55	5.7	YES	NO	bb	db	0.282
3	12378-PeCDF	29.86	1.866e3	1.268e3	0.679	1.47	1.55	20.4	YES	NO	bb	bd	1.076
4	Total-pentafurans	28.80	1.932e3	1.280e3	0.654	1.51	1.55	19.6	YES	NO	db	db	1.210
5	Total-pentafurans	28.72	9.544e2	5.563e2	0.654	1.72	1.55	12.9	YES	NO	dd	dd	0.569

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-hexafurans	34.67	4.405e2	3.961e2	1.141	1.11	1.24	8.3	YES	NO	bd	bb	0.178
2	Total-hexafurans	34.20	1.306e4	1.003e4	1.141	1.30	1.24	220.0	YES	NO	bd	bb	4.924
3	Total-hexafurans	33.36	1.203e4	9.356e3	1.141	1.29	1.24	186.5	YES	NO	db	bb	4.560
4	123468-HXCDF	33.14	3.803e3	2.925e3	1.169	1.30	1.24	60.7	YES	NO	bd	bb	1.510
5	123789-HxCDF	36.84	1.292e3	1.092e3	1.137	1.18	1.24	20.7	YES	NO	bb	bb	0.583
6	234678-HxCDF	35.84	2.627e3	2.492e3	1.140	1.05	1.24	38.8	YES	NO	bb	MM	0.953
7	123678-HxCDF	34.97	1.778e3	1.417e3	1.091	1.25	1.24	31.0	YES	NO	db	db	0.677
8	123478-HxCDF	34.82	3.814e3	3.088e3	1.166	1.24	1.24	62.1	YES	NO	dd	bd	1.553

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HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-heptafurans	39.36	4.064e4	3.846e4	0.978	1.06	1.05	739.2	YES	NO	bb	bb	20.831
2	1234678-HpCDF	38.69	2.194e4	2.132e4	1.003	1.03	1.05	434.3	YES	NO	bb	bb	10.061

Furans,TF,PP,PF,HF,HPF,OF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	23.82	3.803e2	5.596e2	0.727	0.68	0.77	5.3	YES	NO	dd	dd	0.569
2	2378-TCDF	25.69	3.957e2	4.473e2	0.702	0.88	0.77	5.4	YES	NO	MM	bd	0.529
3	Total-tetrafurans	25.46	4.847e2	6.663e2	0.727	0.73	0.77	7.8	YES	NO	dd	bb	0.696
4	Total-tetrafurans	24.79	6.248e2	7.300e2	0.727	0.86	0.77	8.7	YES	NO	db	db	0.820
5	Total-tetrafurans	24.60	2.858e2	4.152e2	0.727	0.69	0.77	3.3	YES	NO	dd	bd	0.424
6	23478-PeCDF	31.19	1.453e3	1.055e3	0.786	1.38	1.55	13.8	YES	NO	bb	bb	0.833
7	Total-pentafurans	31.05	4.642e2	2.837e2	0.654	1.64	1.55	5.7	YES	NO	bb	db	0.282
8	12378-PeCDF	29.86	1.866e3	1.268e3	0.679	1.47	1.55	20.4	YES	NO	bb	bd	1.076
9	Total-pentafurans	28.80	1.932e3	1.280e3	0.654	1.51	1.55	19.6	YES	NO	db	db	1.210
10	Total-pentafurans	28.72	9.544e2	5.563e2	0.654	1.72	1.55	12.9	YES	NO	dd	dd	0.569
11	Total-hexafurans	34.67	4.405e2	3.961e2	1.141	1.11	1.24	8.3	YES	NO	bd	bb	0.178
12	Total-hexafurans	34.20	1.306e4	1.003e4	1.141	1.30	1.24	220.0	YES	NO	bd	bb	4.924
13	Total-hexafurans	33.36	1.203e4	9.356e3	1.141	1.29	1.24	186.5	YES	NO	db	bb	4.560
14	123468-HXCDF	33.14	3.803e3	2.925e3	1.169	1.30	1.24	60.7	YES	NO	bd	bb	1.510
15	123789-HxCDF	36.84	1.292e3	1.092e3	1.137	1.18	1.24	20.7	YES	NO	bb	bb	0.583
16	234678-HxCDF	35.84	2.627e3	2.492e3	1.140	1.05	1.24	38.8	YES	NO	bb	MM	0.953
17	123678-HxCDF	34.97	1.778e3	1.417e3	1.091	1.25	1.24	31.0	YES	NO	db	db	0.677
18	123478-HxCDF	34.82	3.814e3	3.088e3	1.166	1.24	1.24	62.1	YES	NO	dd	bd	1.553
19	Total-heptafurans	39.36	4.064e4	3.846e4	0.978	1.06	1.05	739.2	YES	NO	bb	bb	20.831
20	1234678-HpCDF	38.69	2.194e4	2.132e4	1.003	1.03	1.05	434.3	YES	NO	bb	bb	10.061
21	OCDF	45.15	3.742e4	4.254e4	0.778	0.88	0.89	458.2	YES	NO	bb	bb	31.979
22	Total-penta1	27.13	6.328e3	3.810e3		1.66	1.55	116.3	YES	NO	db	db	2.579

TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetradioxins	23.73	2.517e2	3.678e2	1.024	0.68	0.77	3.6	YES	NO	bb	bb	0.310
2	2378-TCDD	26.35	5.185e2	5.948e2	1.149	0.87	0.77	7.8	YES	NO	MM	bb	0.497
3	Total-tetradioxins	24.45	3.163e2	4.684e2	1.024	0.68	0.77	4.5	YES	NO	bb	bb	0.393

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PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-pentadioxins	29.24	4.772e2	3.384e2	1.502	1.41	1.55	5.5	YES	NO	bb	bb	0.242
2	12378-PeCDD	31.44	1.627e3	9.176e2	1.022	1.77	1.55	21.3	YES	NO	bb	bb	1.108

HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDD	36.46	3.599e3	3.032e3	0.907	1.19	1.24	37.6	YES	NO	bb	bb	2.137
2	Total-hexadioxins	36.24	7.304e2	6.550e2	1.005	1.12	1.24	8.8	YES	NO	db	db	0.403
3	123678-HxCDD	36.08	4.334e3	3.692e3	1.001	1.17	1.24	44.3	YES	NO	dd	dd	2.252
4	123478-HxCDD	35.96	1.676e3	1.473e3	0.996	1.14	1.24	16.2	YES	NO	bd	bd	0.964
5	Total-hexadioxins	35.07	1.134e4	8.891e3	1.005	1.28	1.24	73.9	YES	NO	bd	bd	5.887
6	Total-hexadioxins	34.70	1.823e3	1.639e3	1.005	1.11	1.24	19.8	YES	NO	bb	bb	1.007
7	124679-HXCDD	33.93	9.832e3	8.181e3	1.115	1.20	1.24	92.5	YES	NO	bb	bb	4.924

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234679-HPCDD	39.15	1.368e5	1.300e5	1.137	1.05	1.05	1346.2	YES	NO	bb	bb	69.626
2	1234678-HpCDD	40.18	9.424e4	9.265e4	1.039	1.02	1.05	851.1	YES	NO	bb	bb	53.368

Dataset: T:\Autospec\Processed Data Batch\230424D2.qld
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Dioxins,TD,PD,HD,HPD,OD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetradioxins	23.73	2.517e2	3.678e2	1.024	0.68	0.77	3.6	YES	NO	bb	bb	0.310
2	2378-TCDD	26.35	5.185e2	5.948e2	1.149	0.87	0.77	7.8	YES	NO	MM	bb	0.497
3	Total-tetradioxins	24.45	3.163e2	4.684e2	1.024	0.68	0.77	4.5	YES	NO	bb	bb	0.393
4	Total-pentadioxins	29.24	4.772e2	3.384e2	1.502	1.41	1.55	5.5	YES	NO	bb	bb	0.242
5	12378-PeCDD	31.44	1.627e3	9.176e2	1.022	1.77	1.55	21.3	YES	NO	bb	bb	1.108
6	123789-HxCDD	36.46	3.599e3	3.032e3	0.907	1.19	1.24	37.6	YES	NO	bb	bb	2.137
7	Total-hexadioxins	36.24	7.304e2	6.550e2	1.005	1.12	1.24	8.8	YES	NO	db	db	0.403
8	123678-HxCDD	36.08	4.334e3	3.692e3	1.001	1.17	1.24	44.3	YES	NO	dd	dd	2.252
9	123478-HxCDD	35.96	1.676e3	1.473e3	0.996	1.14	1.24	16.2	YES	NO	bd	bd	0.964
10	Total-hexadioxins	35.07	1.134e4	8.891e3	1.005	1.28	1.24	73.9	YES	NO	bd	bd	5.887
11	Total-hexadioxins	34.70	1.823e3	1.639e3	1.005	1.11	1.24	19.8	YES	NO	bb	bb	1.007
12	124679-HXCDD	33.93	9.832e3	8.181e3	1.115	1.20	1.24	92.5	YES	NO	bb	bb	4.924
13	1234679-HPCDD	39.15	1.368e5	1.300e5	1.137	1.05	1.05	1346.2	YES	NO	bb	bb	69.626
14	OCDD	44.91	6.922e5	8.019e5	0.920	0.86	0.89	3115.8	YES	NO	bb	bb	505.208
15	1234678-HpCDD	40.18	9.424e4	9.265e4	1.039	1.02	1.05	851.1	YES	NO	bb	bb	53.368

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TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetrafurans	23.82	3.803e2	5.596e2	0.727	0.68	0.77	5.3	YES	NO	dd	dd	0.569
2	2378-TCDF	25.69	3.957e2	4.473e2	0.702	0.88	0.77	5.4	YES	NO	MM	bd	0.529
3	Total-tetrafurans	25.46	4.847e2	6.663e2	0.727	0.73	0.77	7.8	YES	NO	dd	bb	0.696
4	Total-tetrafurans	24.79	6.248e2	7.300e2	0.727	0.86	0.77	8.7	YES	NO	db	db	0.820
5	Total-tetrafurans	24.60	2.858e2	4.152e2	0.727	0.69	0.77	3.3	YES	NO	dd	bd	0.424
6	23478-PeCDF	31.19	1.453e3	1.055e3	0.786	1.38	1.55	13.8	YES	NO	bb	bb	0.833
7	Total-pentafurans	31.05	4.642e2	2.837e2	0.654	1.64	1.55	5.7	YES	NO	bb	db	0.282
8	12378-PeCDF	29.86	1.866e3	1.268e3	0.679	1.47	1.55	20.4	YES	NO	bb	bd	1.076
9	Total-pentafurans	28.80	1.932e3	1.280e3	0.654	1.51	1.55	19.6	YES	NO	db	db	1.210
10	Total-pentafurans	28.72	9.544e2	5.563e2	0.654	1.72	1.55	12.9	YES	NO	dd	dd	0.569
11	Total-hexafurans	34.67	4.405e2	3.961e2	1.141	1.11	1.24	8.3	YES	NO	bd	bb	0.178
12	Total-hexafurans	34.20	1.306e4	1.003e4	1.141	1.30	1.24	220.0	YES	NO	bd	bb	4.924
13	Total-hexafurans	33.36	1.203e4	9.356e3	1.141	1.29	1.24	186.5	YES	NO	db	bb	4.560
14	123468-HXCDF	33.14	3.803e3	2.925e3	1.169	1.30	1.24	60.7	YES	NO	bd	bb	1.510
15	123789-HxCDF	36.84	1.292e3	1.092e3	1.137	1.18	1.24	20.7	YES	NO	bb	bb	0.583
16	234678-HxCDF	35.84	2.627e3	2.492e3	1.140	1.05	1.24	38.8	YES	NO	bb	MM	0.953
17	123678-HxCDF	34.97	1.778e3	1.417e3	1.091	1.25	1.24	31.0	YES	NO	db	db	0.677
18	123478-HxCDF	34.82	3.814e3	3.088e3	1.166	1.24	1.24	62.1	YES	NO	dd	bd	1.553
19	Total-heptafurans	39.36	4.064e4	3.846e4	0.978	1.06	1.05	739.2	YES	NO	bb	bb	20.831
20	1234678-HpCDF	38.69	2.194e4	2.132e4	1.003	1.03	1.05	434.3	YES	NO	bb	bb	10.061
21	OCDF	45.15	3.742e4	4.254e4	0.778	0.88	0.89	458.2	YES	NO	bb	bb	31.979
22	Total-penta1	27.13	6.328e3	3.810e3		1.66	1.55	116.3	YES	NO	db	db	2.579
23	Total-tetradioxins	23.73	2.517e2	3.678e2	1.024	0.68	0.77	3.6	YES	NO	bb	bb	0.310
24	2378-TCDD	26.35	5.185e2	5.948e2	1.149	0.87	0.77	7.8	YES	NO	MM	bb	0.497
25	Total-tetradioxins	24.45	3.163e2	4.684e2	1.024	0.68	0.77	4.5	YES	NO	bb	bb	0.393
26	Total-pentadioxins	29.24	4.772e2	3.384e2	1.502	1.41	1.55	5.5	YES	NO	bb	bb	0.242
27	12378-PeCDD	31.44	1.627e3	9.176e2	1.022	1.77	1.55	21.3	YES	NO	bb	bb	1.108
28	123789-HxCDD	36.46	3.599e3	3.032e3	0.907	1.19	1.24	37.6	YES	NO	bb	bb	2.137
29	Total-hexadioxins	36.24	7.304e2	6.550e2	1.005	1.12	1.24	8.8	YES	NO	db	db	0.403
30	123678-HxCDD	36.08	4.334e3	3.692e3	1.001	1.17	1.24	44.3	YES	NO	dd	dd	2.252
31	123478-HxCDD	35.96	1.676e3	1.473e3	0.996	1.14	1.24	16.2	YES	NO	bd	bd	0.964
32	Total-hexadioxins	35.07	1.134e4	8.891e3	1.005	1.28	1.24	73.9	YES	NO	bd	bd	5.887
33	Total-hexadioxins	34.70	1.823e3	1.639e3	1.005	1.11	1.24	19.8	YES	NO	bb	bb	1.007
34	124679-HXCDD	33.93	9.832e3	8.181e3	1.115	1.20	1.24	92.5	YES	NO	bb	bb	4.924
35	1234679-HPCDD	39.15	1.368e5	1.300e5	1.137	1.05	1.05	1346.2	YES	NO	bb	bb	69.626
36	OCDD	44.91	6.922e5	8.019e5	0.920	0.86	0.89	3115.8	YES	NO	bb	bb	505.208
37	1234678-HpCDD	40.18	9.424e4	9.265e4	1.039	1.02	1.05	851.1	YES	NO	bb	bb	53.368

ID: BLC0379-SRM1, Name: 23042425, Date: 25-Apr-2023, Time: 10:14:25, Conditions: AUTOSPEC01, User: pk

PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	27.24	5.646e5					9.9	YES		db		
2	FUNCTION1 PFK	27.23	2.372e5					10.1	YES		bd		
3	FUNCTION1 PFK	25.89	4.822e5					3.9	YES		bb		
4	FUNCTION1 PFK	22.50	2.987e4					2.0	NO		bb		
5	FUNCTION1 PFK	22.21	1.202e6					9.2	YES		bb		
6	FUNCTION1 PFK	21.54	3.889e6					14.7	YES		db		
7	FUNCTION1 PFK	21.35	6.618e5					12.2	YES		bd		
8	FUNCTION1 PFK	21.20	1.610e5					6.1	YES		bb		
9	FUNCTION1 PFK	27.85	1.046e6					6.8	YES		bb		
10	FUNCTION1 PFK	27.50	1.023e6					15.5	YES		bb		

PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	32.53	4.105e4					3.3	YES		bb		0.000
2	FUNCTION2 PFK	32.13	2.111e5					6.3	YES		bb		0.000
3	FUNCTION2 PFK	29.51	2.404e5					3.9	YES		bb		0.000
4	FUNCTION2 PFK	29.28	4.605e4					4.2	YES		bb		0.000
5	FUNCTION2 PFK	28.98	4.406e4					3.0	YES		bb		0.000

PFK3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	37.67	6.524e6					14.8	YES		db		0.000
2	FUNCTION3 PFK	36.90	1.387e6					57.7	YES		bd		0.000
3	FUNCTION3 PFK	36.52	7.199e6					56.2	YES		bb		0.000
4	FUNCTION3 PFK	33.04	2.051e5					7.9	YES		bb		0.000

ID: BLC0379-SRM1, Name: 23042425, Date: 25-Apr-2023, Time: 10:14:25, Conditions: AUTOSPEC01, User: pk

PFK4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	38.37	5.664e4					2.7	NO		bb		
2	FUNCTION4 PFK	38.16	4.329e3					0.8	NO		bb		
3	FUNCTION4 PFK	42.07	1.340e3					0.4	NO		bb		
4	FUNCTION4 PFK	41.81	2.098e3					0.7	NO		bb		
5	FUNCTION4 PFK	41.71	1.286e3					0.4	NO		bb		
6	FUNCTION4 PFK	41.32	1.107e4					1.0	NO		bb		
7	FUNCTION4 PFK	40.28	8.094e3					1.1	NO		bb		
8	FUNCTION4 PFK	39.34	3.870e3					0.7	NO		bb		
9	FUNCTION4 PFK	39.16	2.036e4					1.3	NO		bb		
10	FUNCTION4 PFK	38.86	3.437e3					0.7	NO		bb		
11	FUNCTION4 PFK	38.57	5.933e4					1.6	NO		bb		

PFK5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

ETHERS1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	24.73	8.043e1					2.9	NO		bb		0.000
2	FUNCTION1 HXCD...	23.54	8.944e1					2.7	NO		bb		0.000
3	FUNCTION1 HXCD...	22.24	1.080e2					2.2	NO		bb		0.000
4	FUNCTION1 HXCD...	21.40	9.608e1					2.3	NO		bb		0.000
5	FUNCTION1 HXCD...	21.14	1.287e2					1.5	NO		bb		0.000
6	FUNCTION1 HXCD...	27.74	7.644e1					1.9	NO		db		0.000
7	FUNCTION1 HXCD...	27.55	1.548e2					3.0	YES		dd		0.000
8	FUNCTION1 HXCD...	27.43	7.705e1					2.3	NO		bd		0.000
9	FUNCTION1 HXCD...	27.23	1.608e2					2.8	NO		bb		0.000
10	FUNCTION1 HXCD...	25.86	3.010e2					7.0	YES		bb		0.000

ETHERS2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

ID: BLC0379-SRM1, Name: 23042425, Date: 25-Apr-2023, Time: 10:14:25, Conditions: AUTOSPEC01, User: pk

ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	28.89	7.332e1					2.2	NO		bb		0.000
2	FUNCTION2 HPCD...	28.43	8.387e1					2.2	NO		bb		0.000

ETHERS4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	36.45	9.044e1					2.6	NO		bb		0.000
2	FUNCTION3 OCDPE	36.08	9.616e1					2.9	NO		bb		0.000

ETHERS5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	38.35	1.779e3					41.1	YES		bb		0.000

ETHERS6

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 DCDPE	43.62	9.314e1					3.0	YES		bb		0.000

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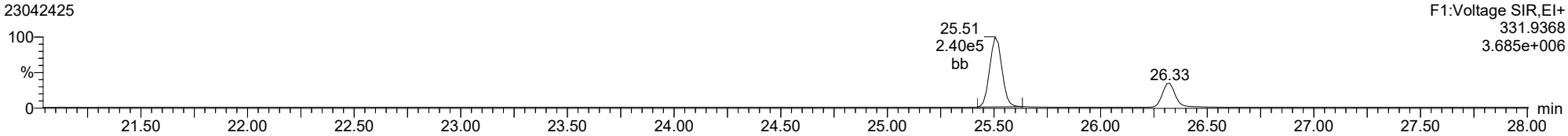
ID: BLC0379-SRM1, Name: 23042425, Date: 25-Apr-2023, Time: 10:14:25, Conditions: AUTOSPEC01, User: pk

13C-1234-TCDD



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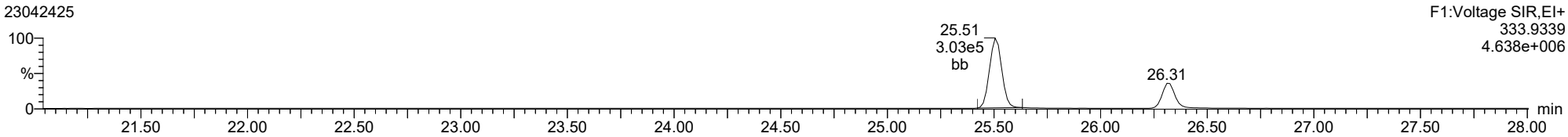
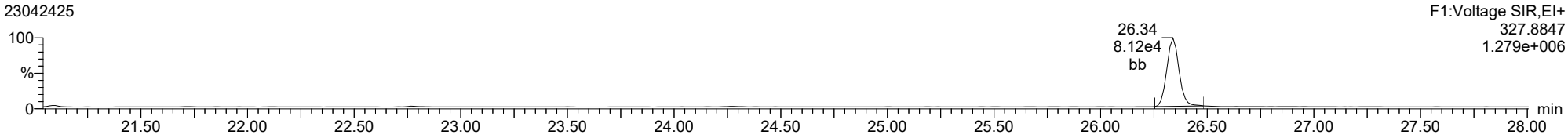


37CL-2378-TCDD



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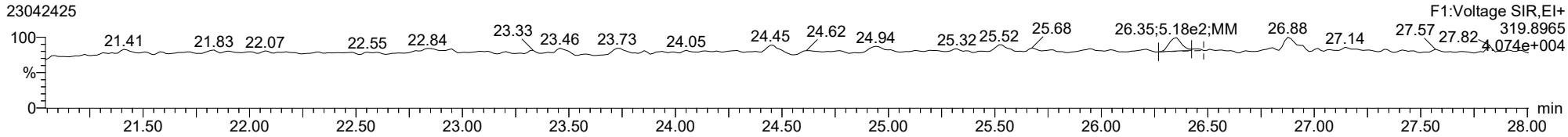

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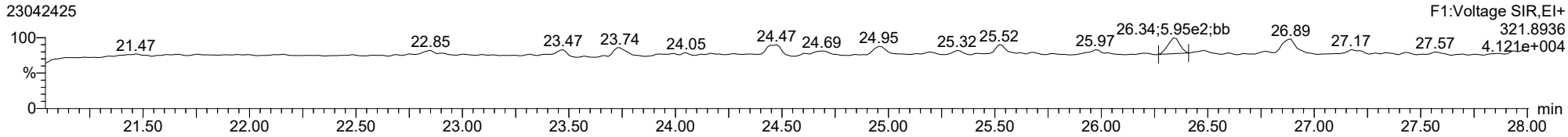

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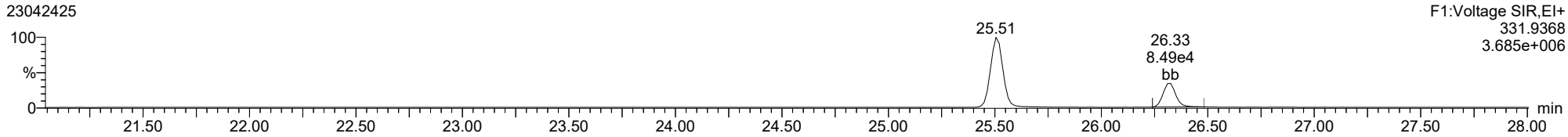

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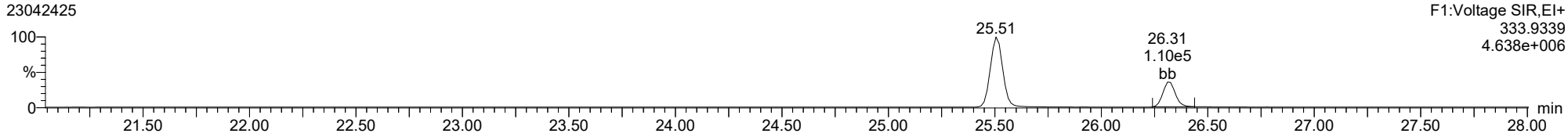

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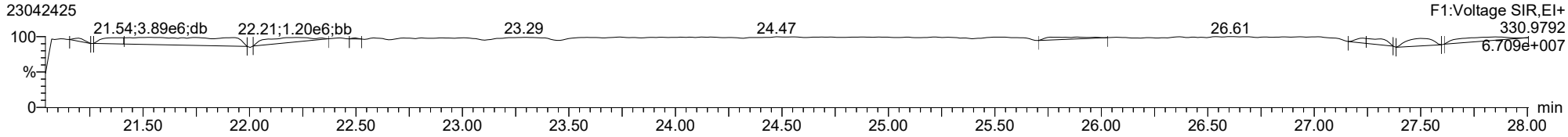
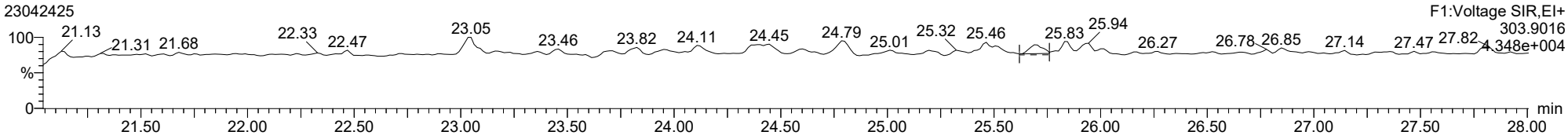


ID: BLC0379-SRM1, Name: 23042425, Date: 25-Apr-2023, Time: 10:14:25, Conditions: AUTOSPEC01, User: pk

2378-TCDF



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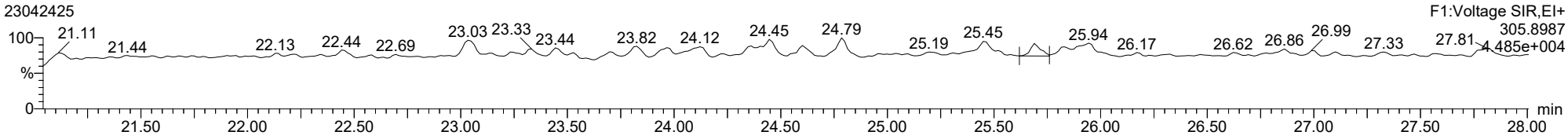

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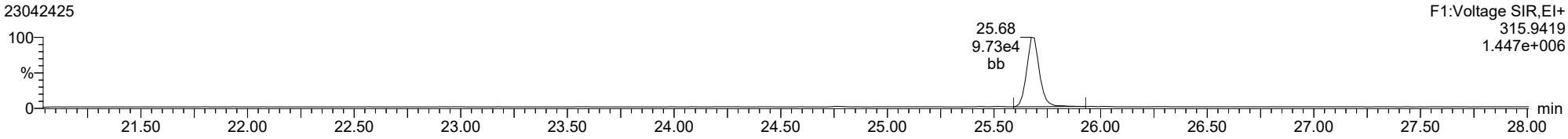

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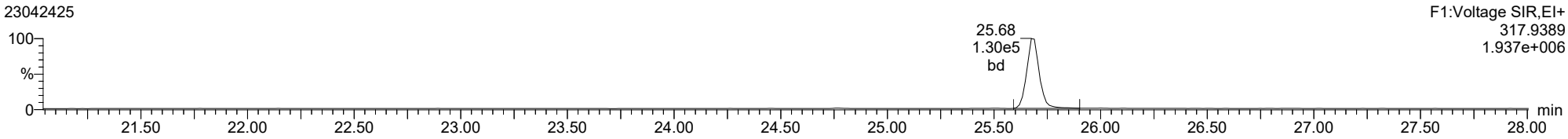
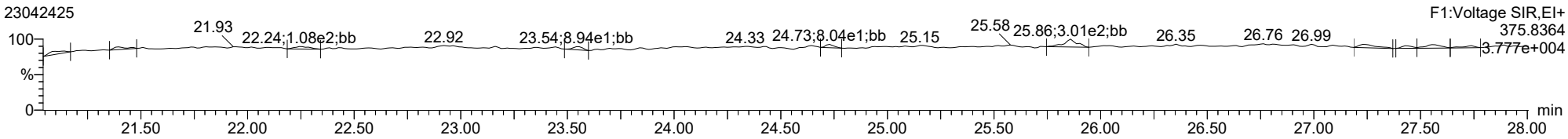
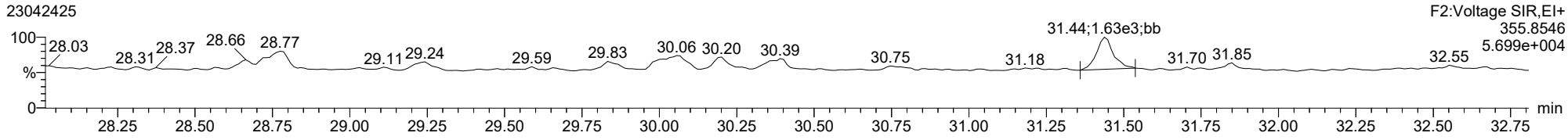


FUNCTION1 HXCDPE



ID: BLC0379-SRM1, Name: 23042425, Date: 25-Apr-2023, Time: 10:14:25, Conditions: AUTOSPEC01, User: pk

12378-PeCDD



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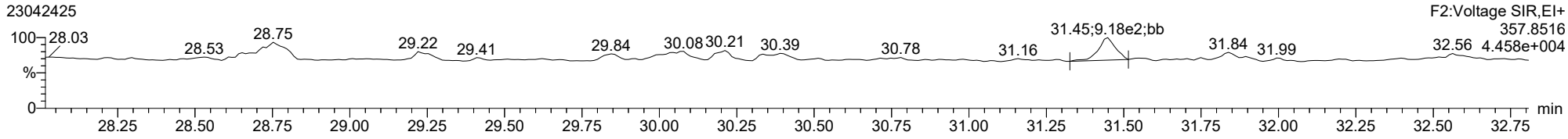

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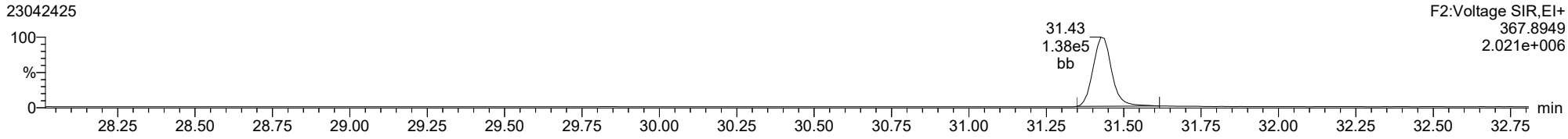

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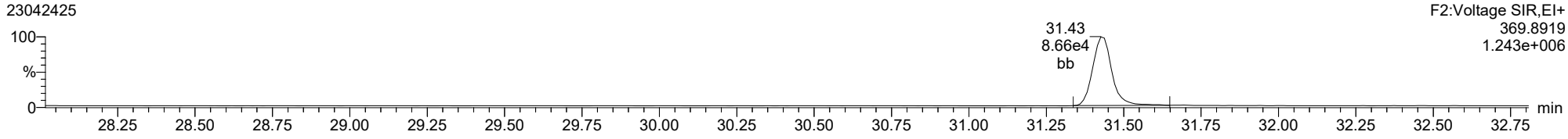
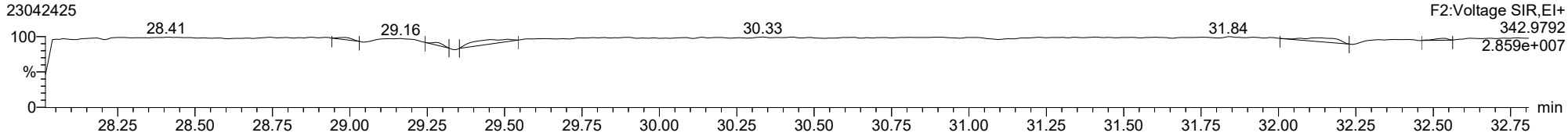


FUNCTION2 PFK



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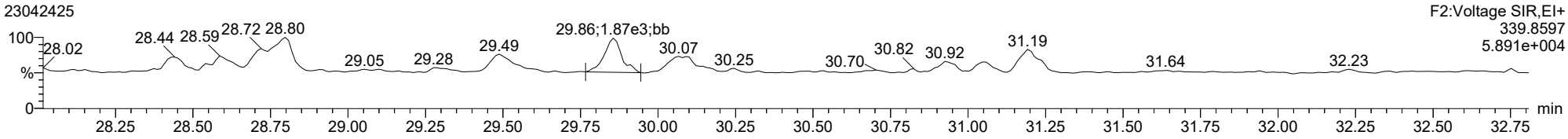

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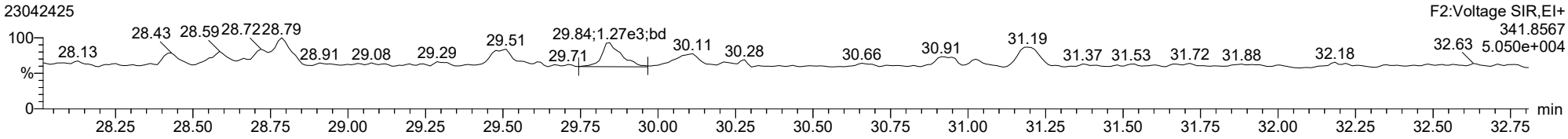

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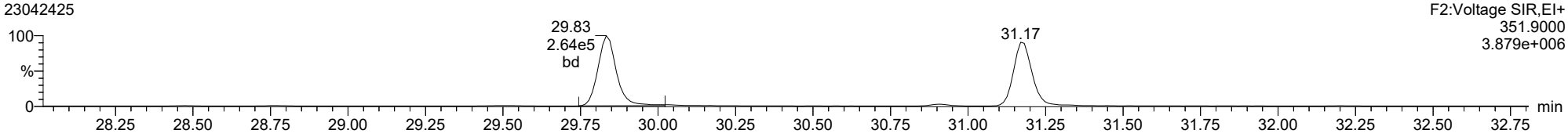

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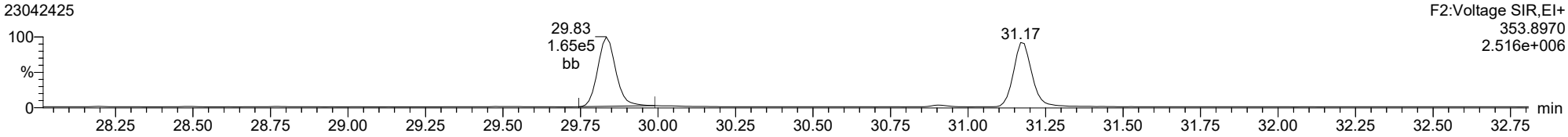
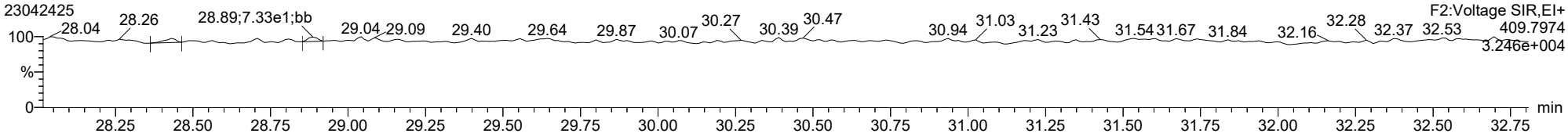


FUNCTION2 HPCDPE



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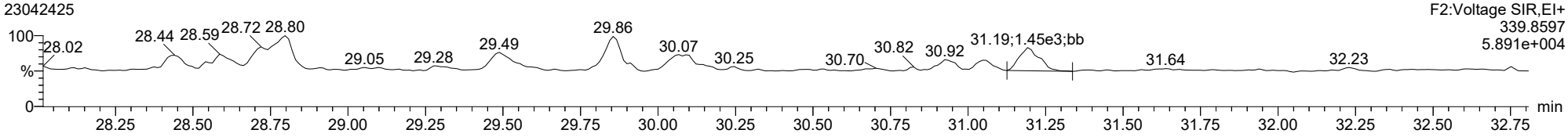
23478-PeCDF



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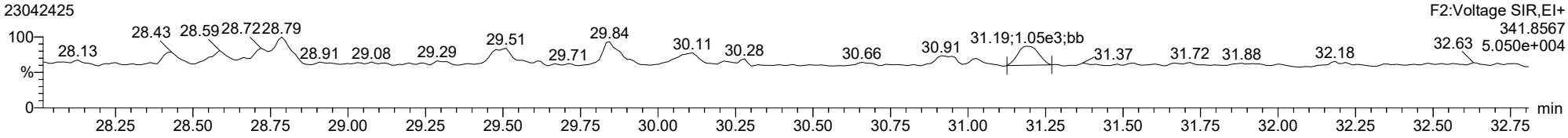

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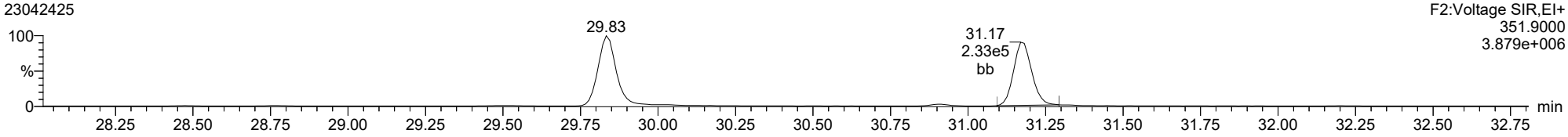

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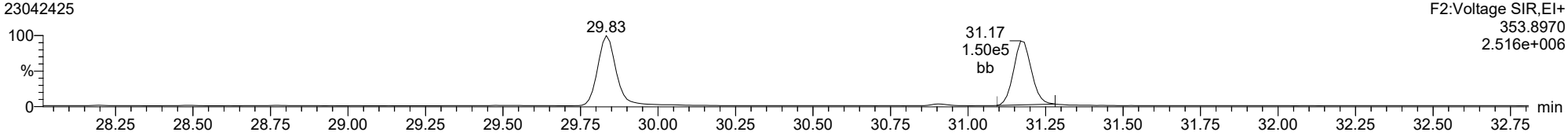
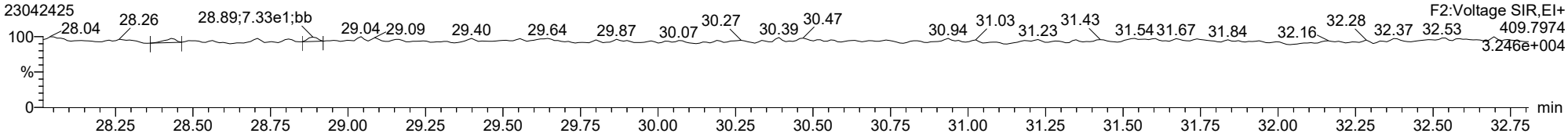


FUNCTION2 HPCDPE



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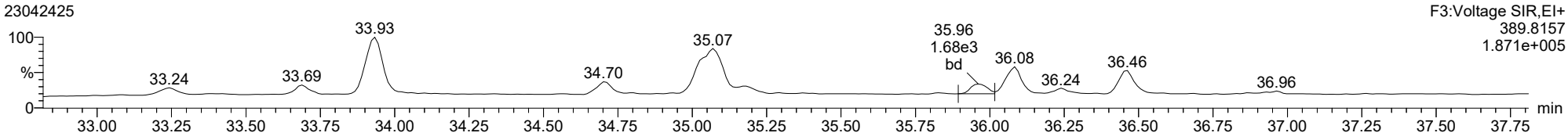
123478-HxCDD



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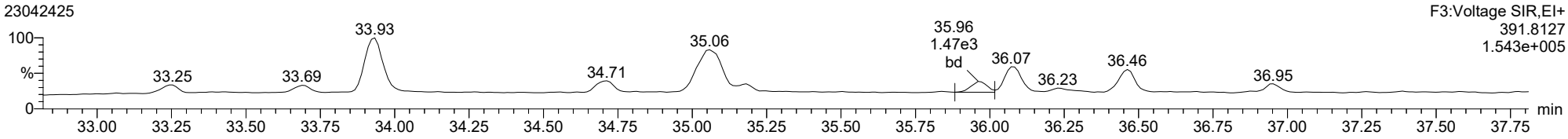

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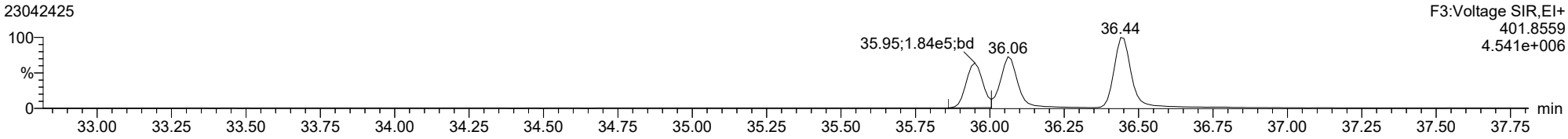

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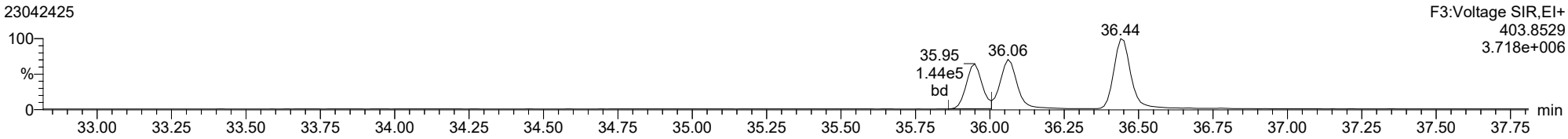
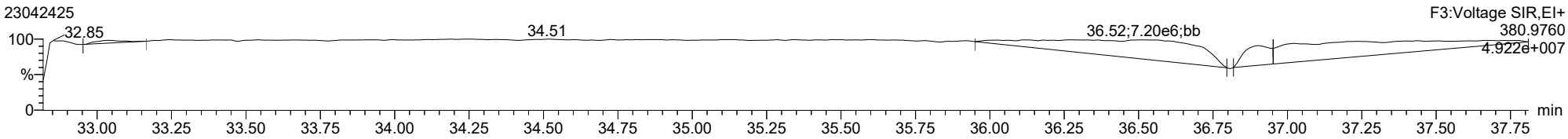


FUNCTION3 PFK



ID: BLC0379-SRM1, Name: 23042425, Date: 25-Apr-2023, Time: 10:14:25, Conditions: AUTOSPEC01, User: pk

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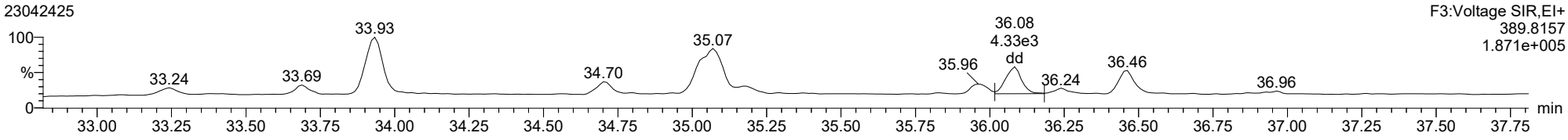

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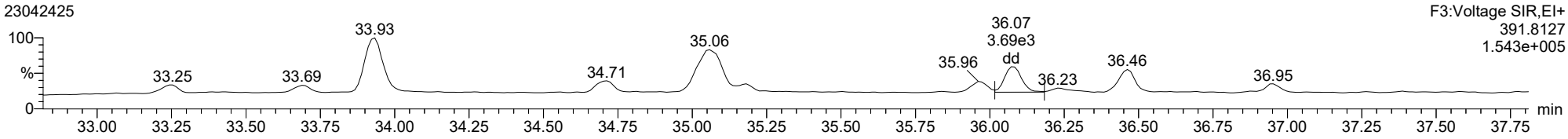

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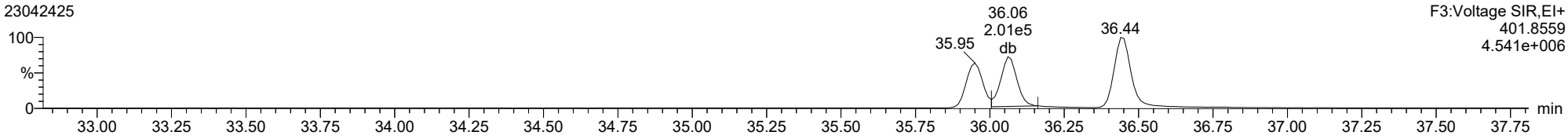

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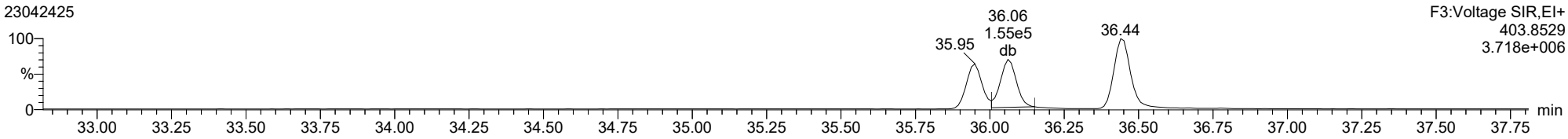

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ID: BLC0379-SRM1, Name: 23042425, Date: 25-Apr-2023, Time: 10:14:25, Conditions: AUTOSPEC01, User: pk

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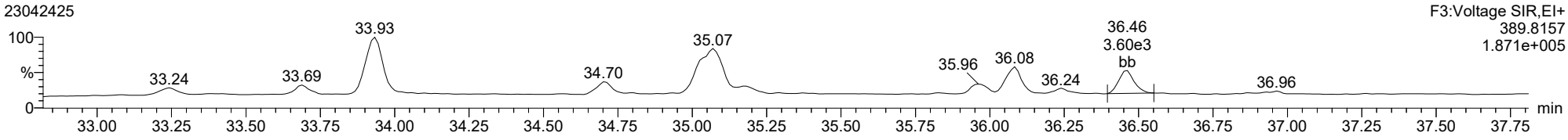

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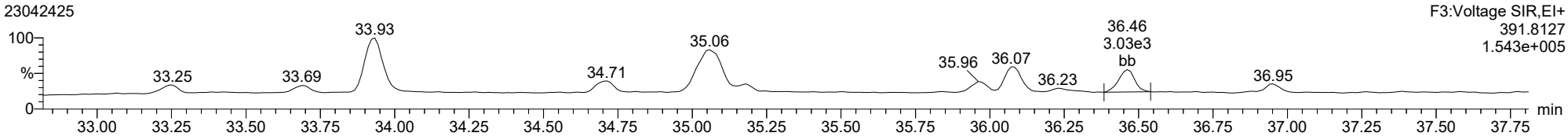

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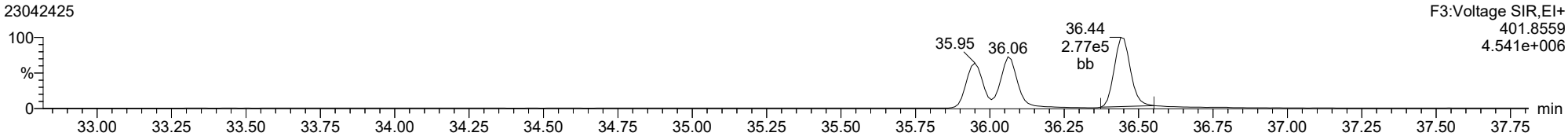

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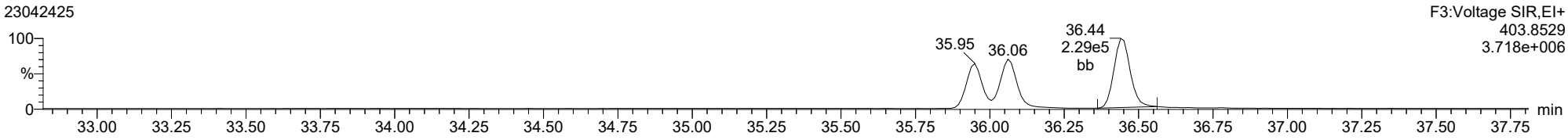

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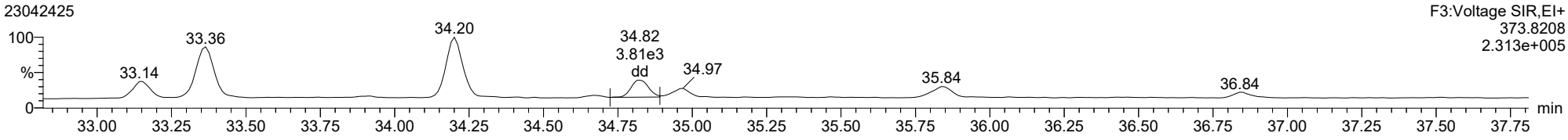

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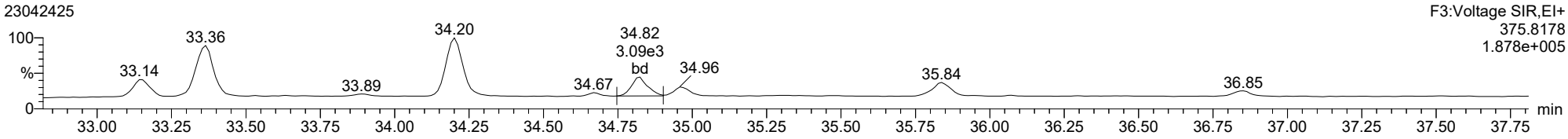

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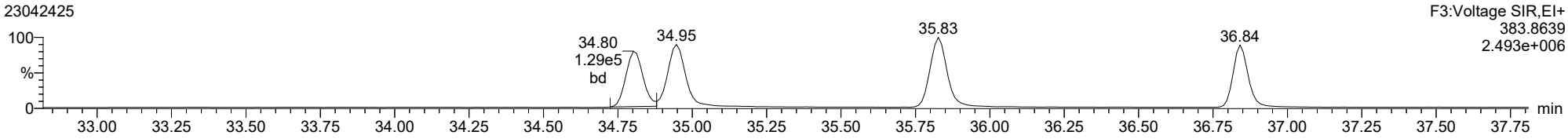

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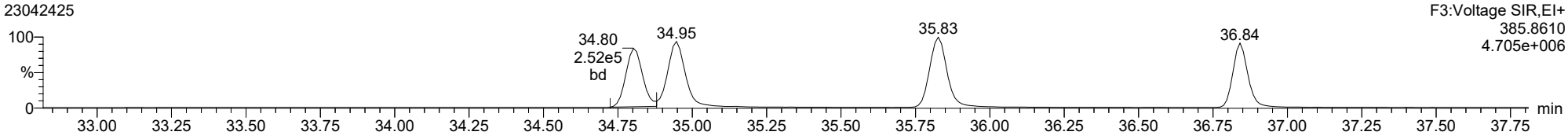

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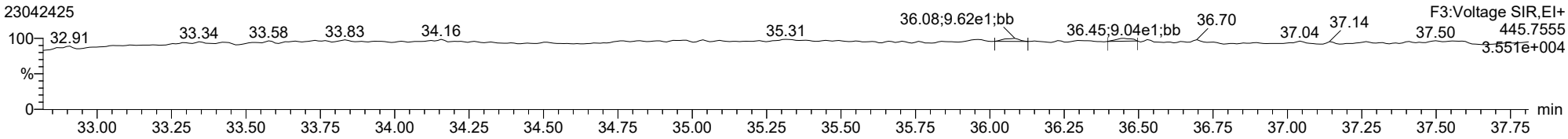

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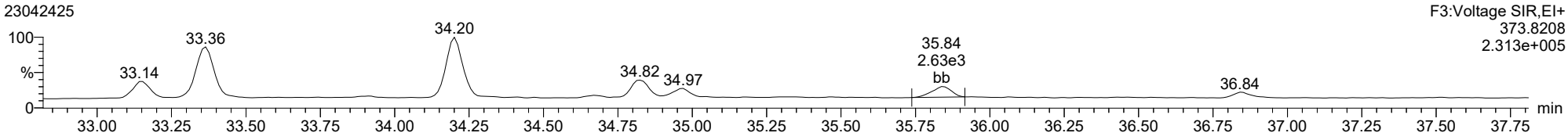

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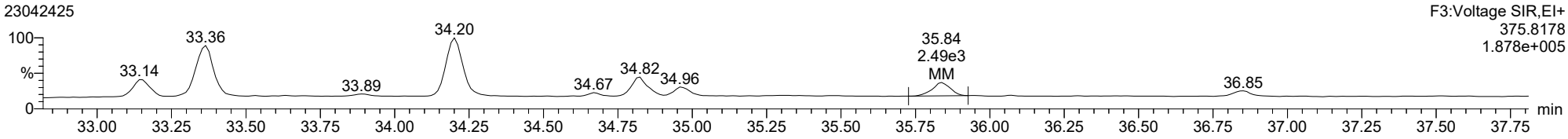

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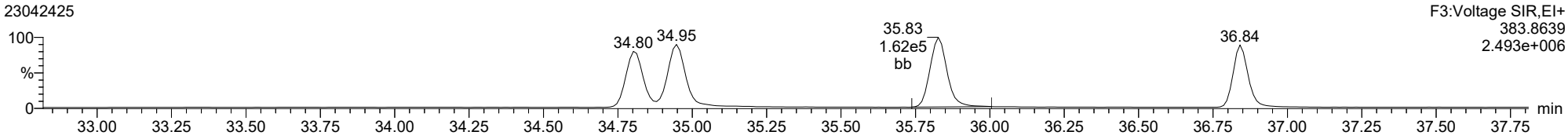

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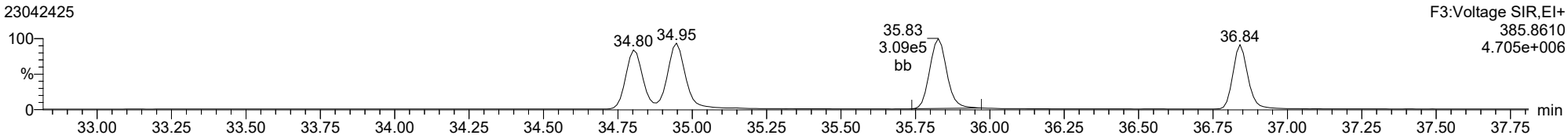

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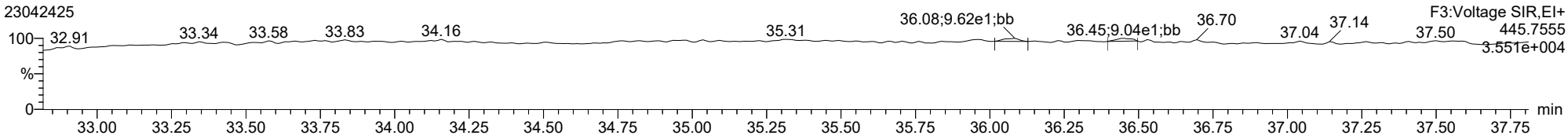

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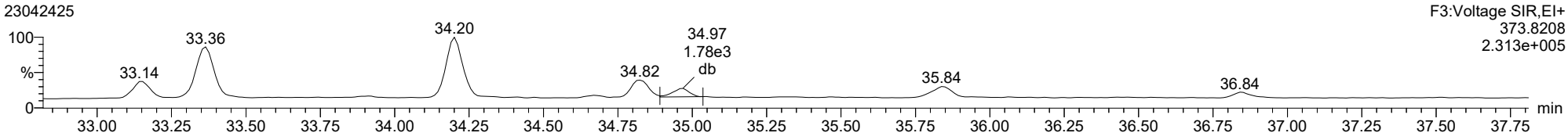

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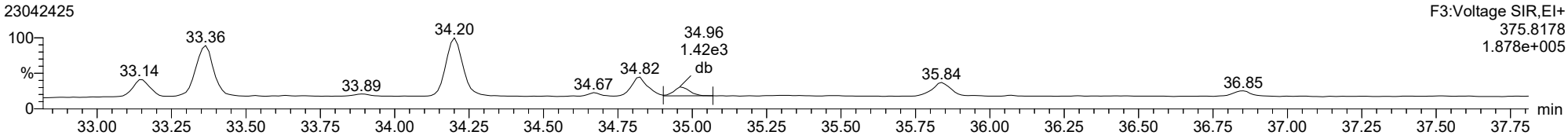

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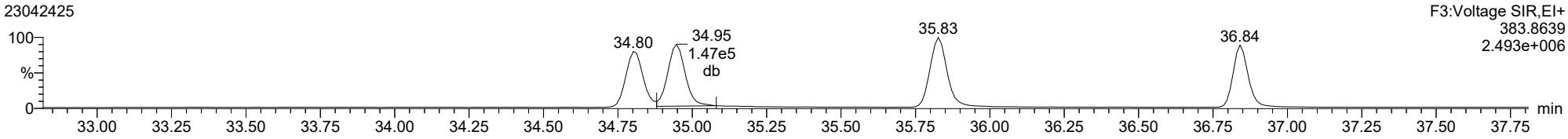

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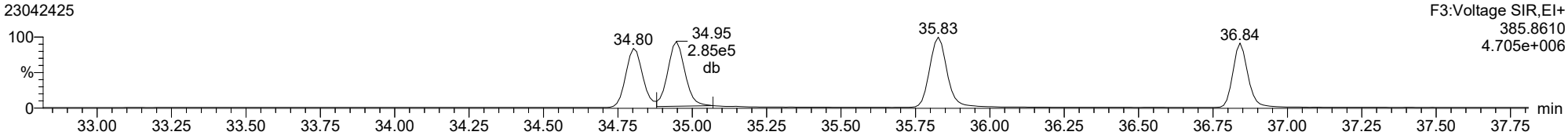

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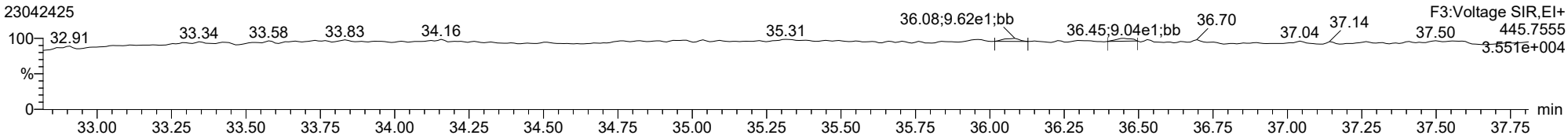

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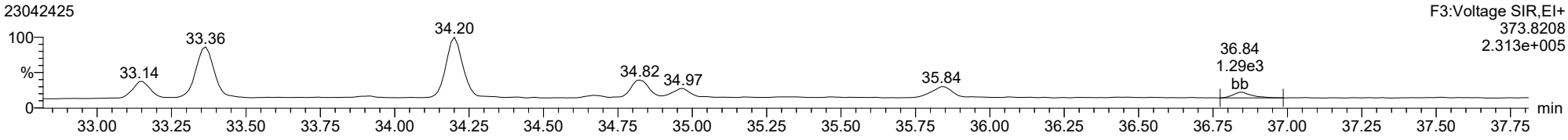

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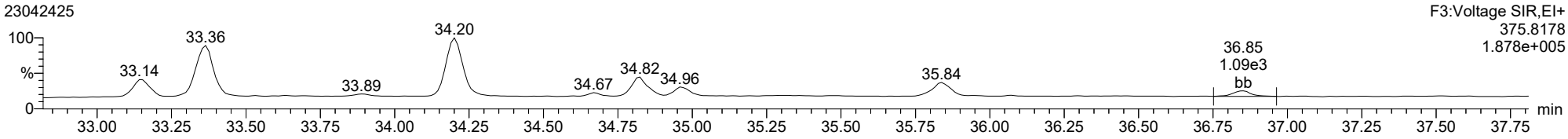

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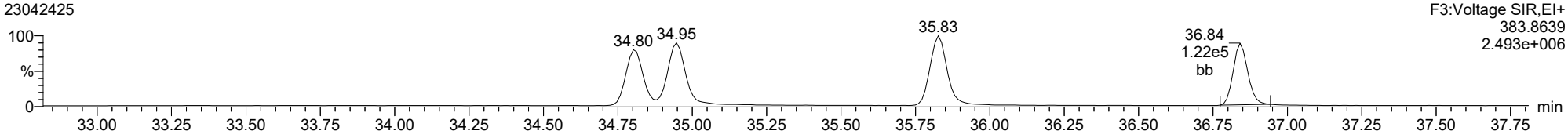

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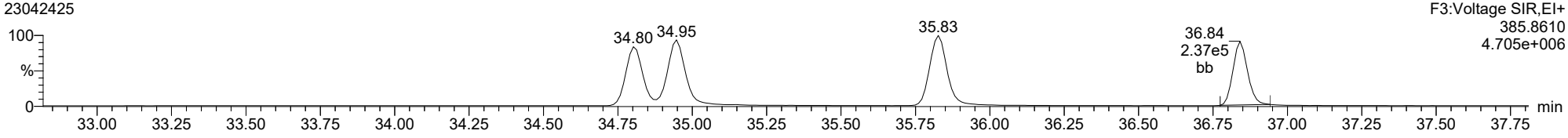

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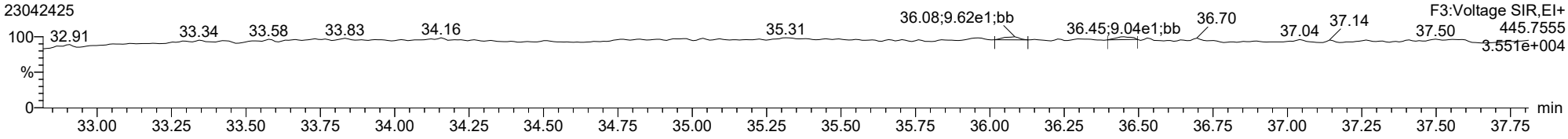

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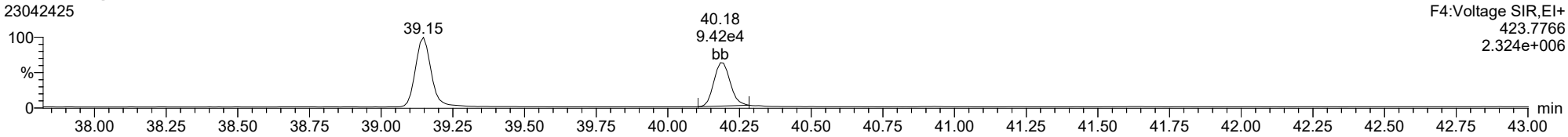

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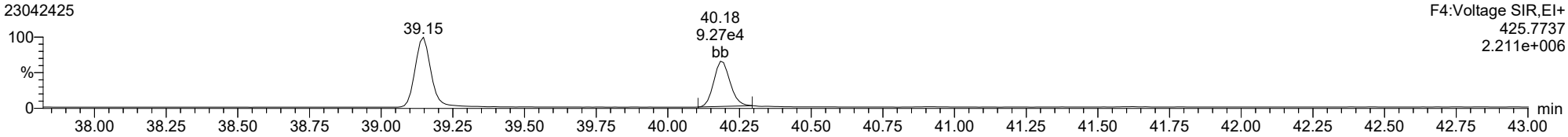

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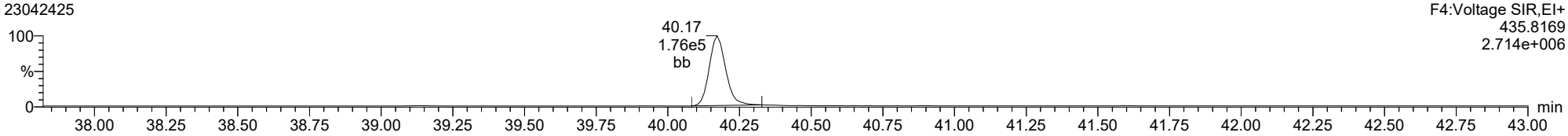

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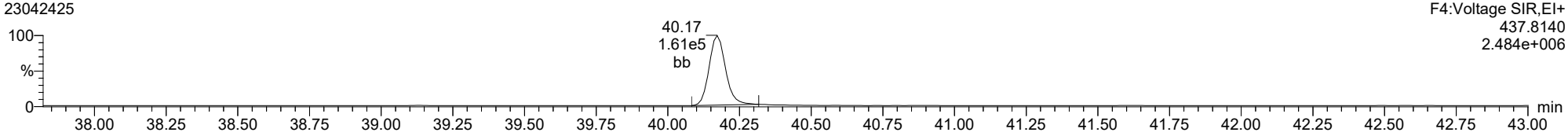

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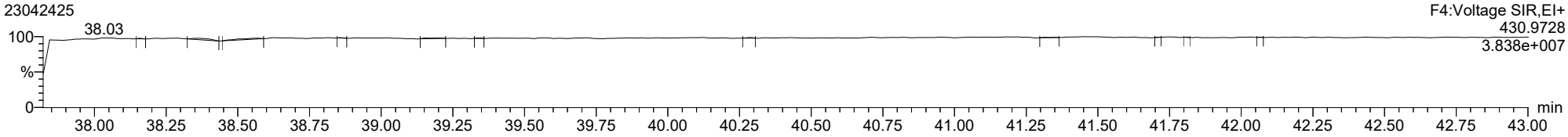

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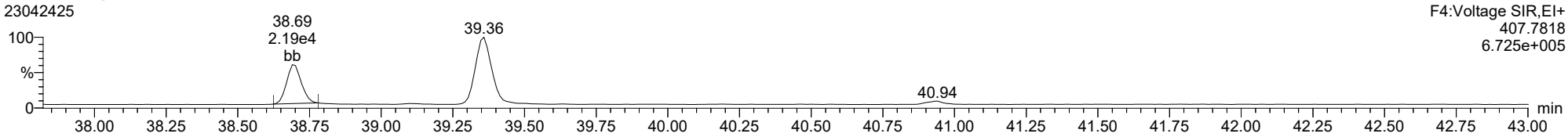

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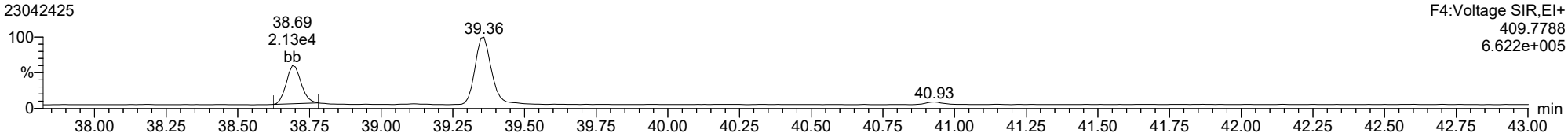

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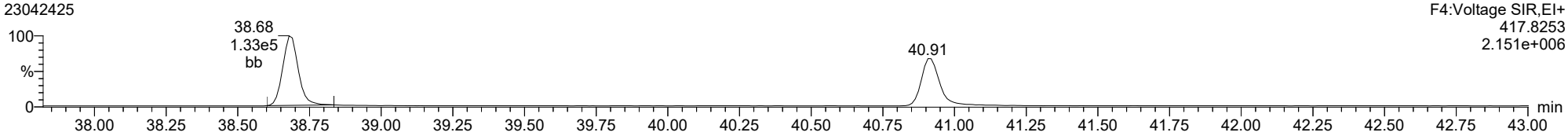

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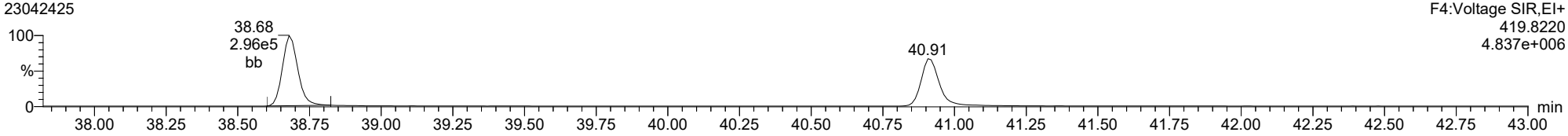
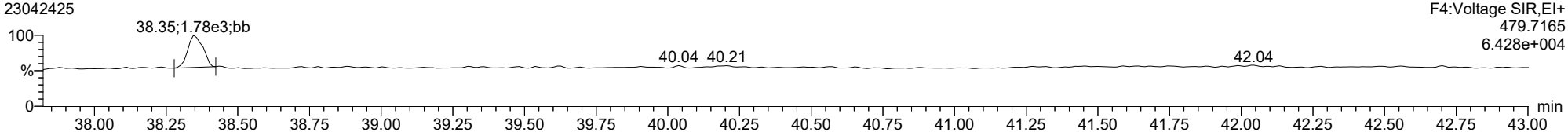


FUNCTION4 NCDPE



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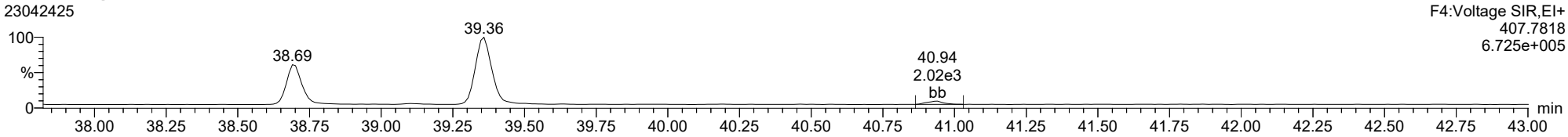

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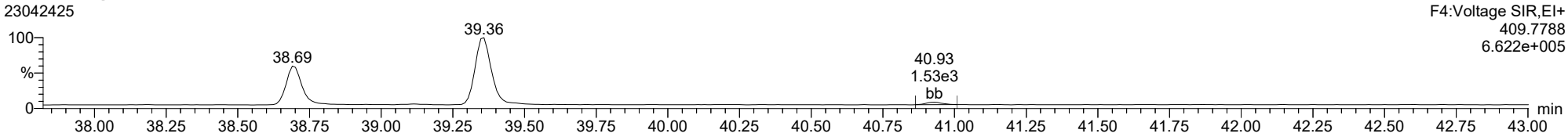

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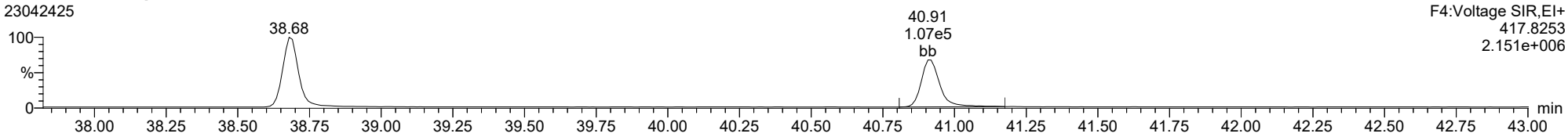

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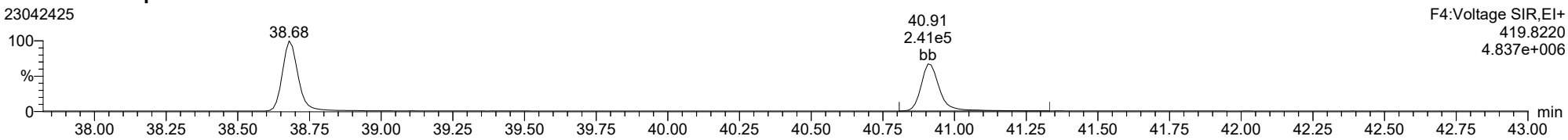

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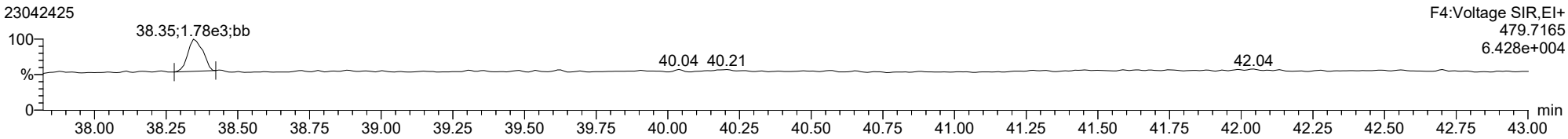

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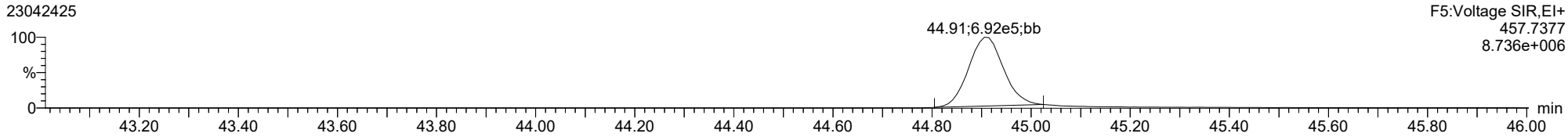
OCDD



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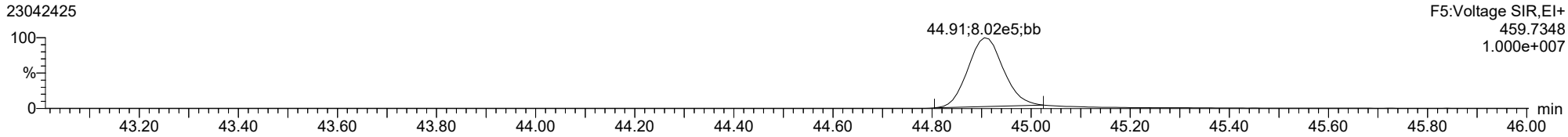

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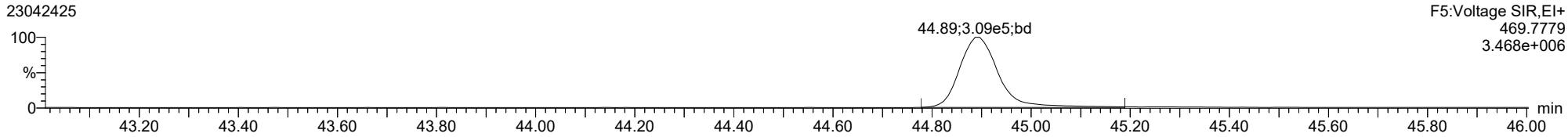

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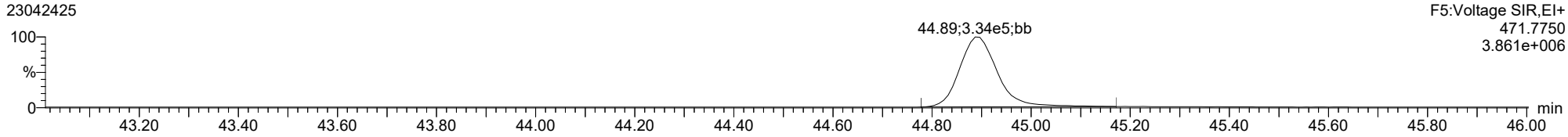
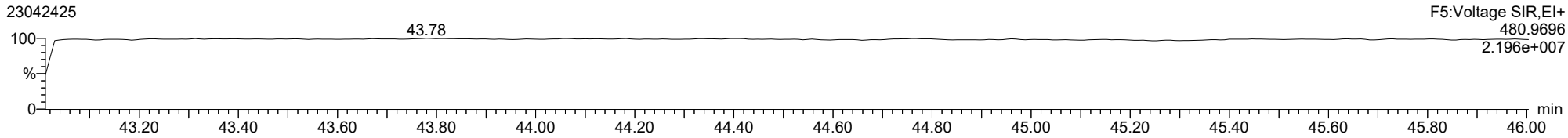


FUNCTION5 PFK



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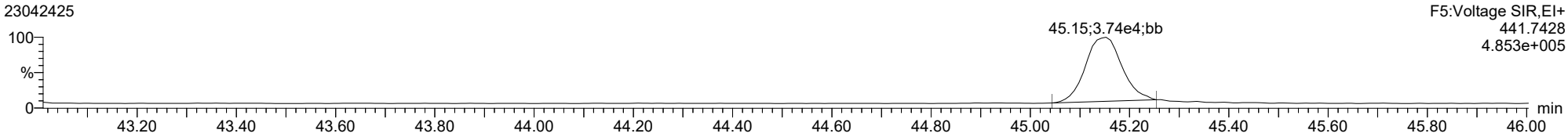
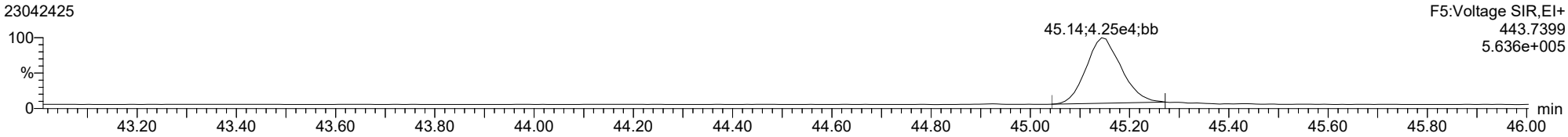
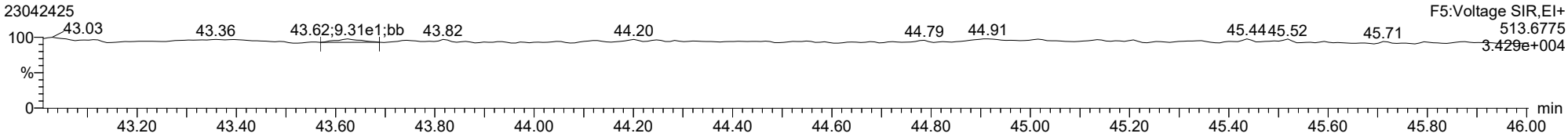
OCDF



OCDF



FUNCTION5 DCDPE



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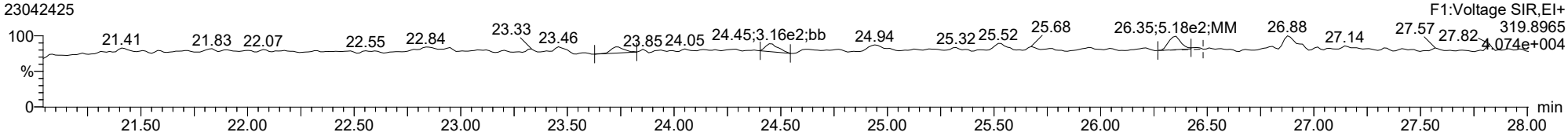
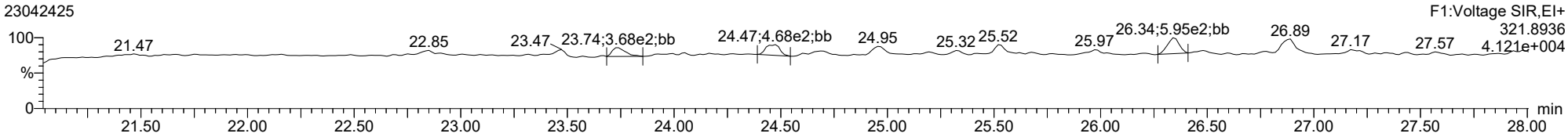
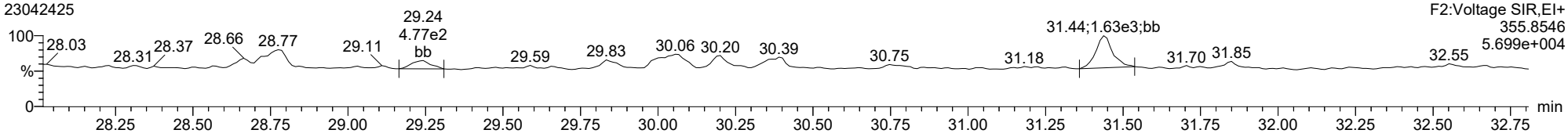
Total-tetradioxins



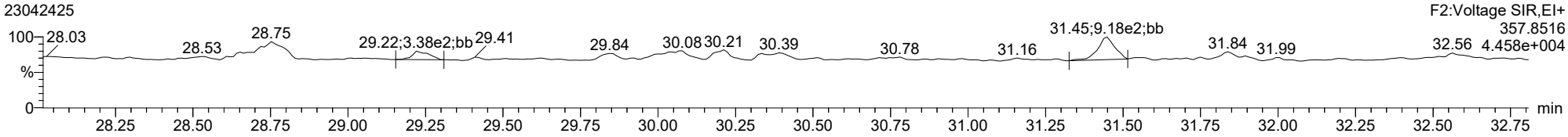
Total-tetradioxins



Total-pentadioxins



Total-pentadioxins



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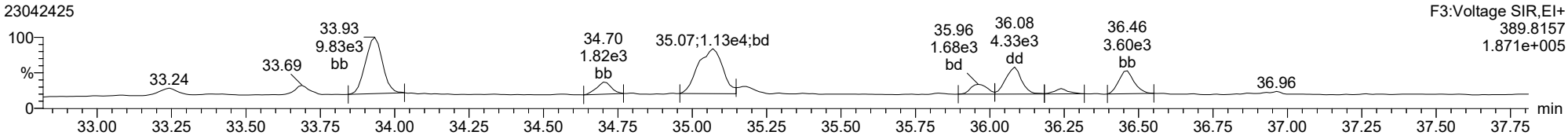
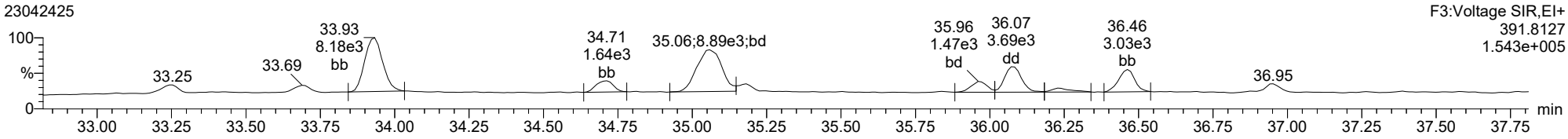
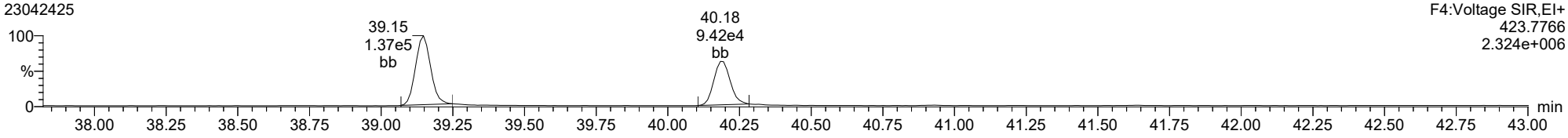
Total-hexadioxins



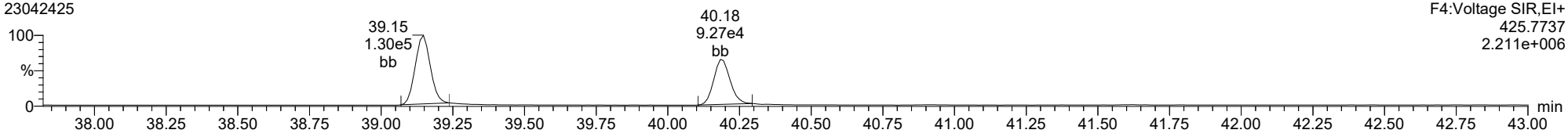
Total-hexadioxins



Total-heptadioxins



Total-heptadioxins



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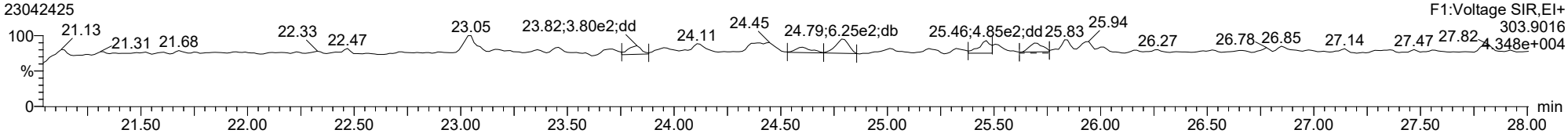
ID: BLC0379-SRM1, Name: 23042425, Date: 25-Apr-2023, Time: 10:14:25, Conditions: AUTOSPEC01, User: pk

Total-tetrafurans



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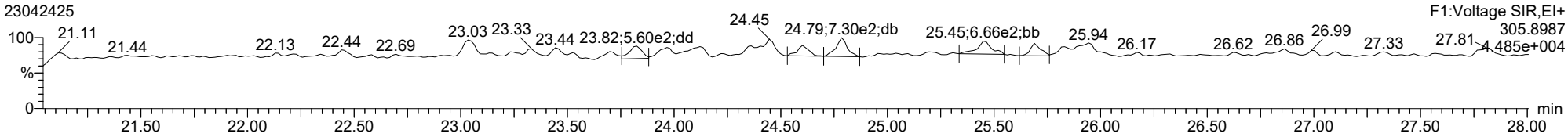

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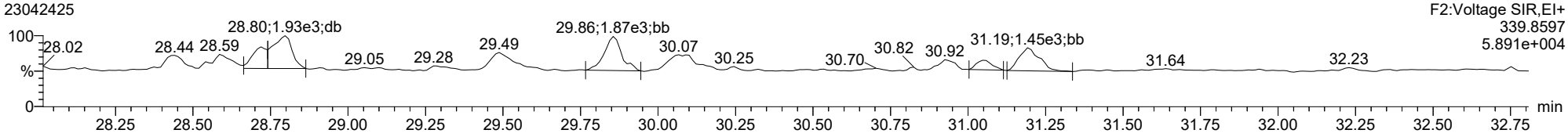

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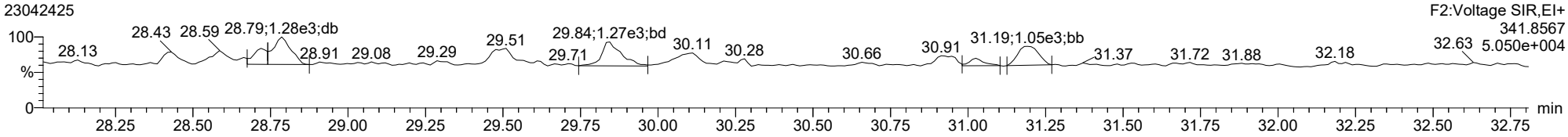

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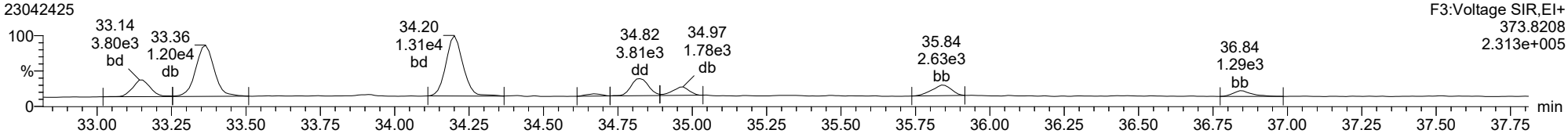
ID: BLC0379-SRM1, Name: 23042425, Date: 25-Apr-2023, Time: 10:14:25, Conditions: AUTOSPEC01, User: pk

Total-hexafurans



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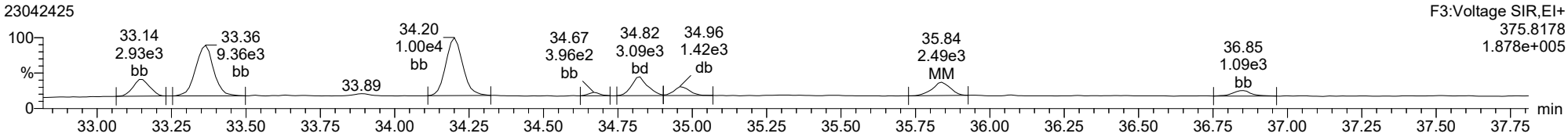

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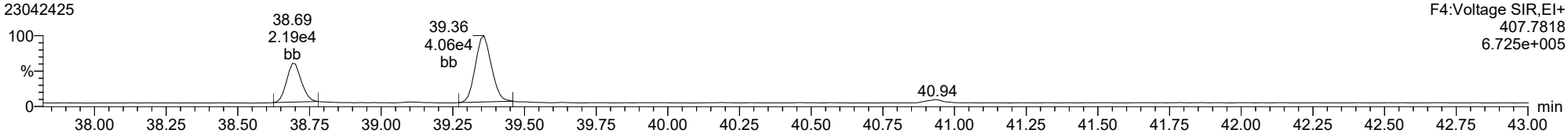
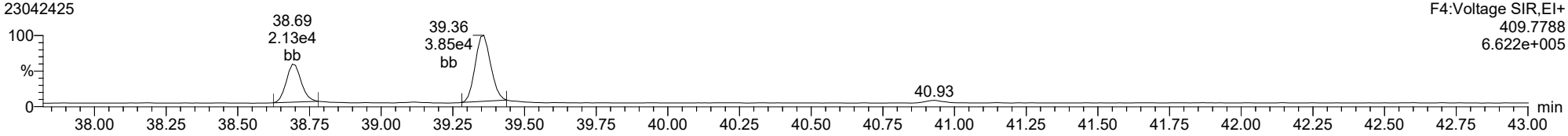


Total-heptafurans



INITIAL CALIBRATION DATA

EPA 1613B

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GC00015	Instrument:	AUTOSPEC01
Calibration Date:	03/03/2023	Column (1):	RTX-Dioxin2

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
2,3,7,8-TCDF			0.5	0.6926363	2	0.6813225	10	0.7107923	40	0.719723	200	0.703162
2,3,7,8-TCDD			0.5	1.116738	2	1.187915	10	1.134128	40	1.147736	200	1.156792
1,2,3,7,8-PeCDF	0.5	0.7064839	2.5	0.5889757	10	0.710829	50	0.6668491	200	0.6891968	1000	0.7130453
2,3,4,7,8-PeCDF	0.5	0.7979673	2.5	0.750268	10	0.8092124	50	0.7777683	200	0.7907891	1000	0.7910175
1,2,3,7,8-PeCDD	0.5	1.103364	2.5	0.959607	10	1.01992	50	1.019473	200	1.01999	1000	1.008719
1,2,3,4,7,8-HxCDF	0.5	1.217557	2.5	1.181192	10	1.149885	50	1.142227	200	1.15269	1000	1.152678
1,2,3,6,7,8-HxCDF	0.5	1.080855	2.5	1.053928	10	1.175308	50	1.102076	200	1.035098	1000	1.097184
2,3,4,6,7,8-HxCDF	0.5	1.045907	2.5	1.140857	10	1.199347	50	1.11691	200	1.197861	1000	1.13731
1,2,3,7,8,9-HxCDF	0.5	1.190403	2.5	1.119796	10	1.130872	50	1.147742	200	1.139146	1000	1.094601
1,2,3,4,7,8-HxCDD	0.5	1.079554	2.5	0.961704	10	0.973768	50	0.967789	200	0.9862736	1000	1.004325
1,2,3,6,7,8-HxCDD	0.5	0.9586431	2.5	0.9983677	10	0.9838912	50	1.030566	200	1.022077	1000	1.012084
1,2,3,7,8,9-HxCDD	0.5	0.930997	2.5	0.8854269	10	0.8092562	50	0.9267543	200	0.9251392	1000	0.9651099
1,2,3,4,6,7,8-HpCDF	0.5	0.934103	2.5	1.075239	10	1.011687	50	0.9661089	200	1.026311	1000	1.004508
1,2,3,4,7,8,9-HpCDF	0.5	0.8861422	2.5	0.8930411	10	1.006144	50	0.9387033	200	0.9934576	1000	1.001203
1,2,3,4,6,7,8-HpCDD	0.5	1.103772	2.5	0.971421	10	1.040117	50	1.038088	200	1.030577	1000	1.050103
OCDF	1	0.8118871	5	0.7091624	20	0.7657645	100	0.7266152	400	0.8162858	2000	0.8371317
OCDD			5	1.012935	20	0.8906655	100	0.878436	400	0.9061913	2000	0.9115405
13C12-2,3,7,8-TCDF	100	1.631571	100	1.588495	100	1.670669	100	1.492829	100	1.645068	100	1.692541
13C12-2,3,7,8-TCDD	100	1.103543	100	1.165686	100	1.103763	100	1.147762	100	1.181831	100	1.211872
13C12-1,2,3,7,8-PeCDF	100	1.373516	100	0.8861478	100	1.254697	100	1.157546	100	1.425701	100	1.345107
13C12-2,3,4,7,8-PeCDF	100	1.219579	100	0.8983995	100	1.113808	100	0.8611233	100	1.32733	100	1.286474
13C12-1,2,3,7,8-PeCDD	100	0.9177021	100	0.7002528	100	0.8365419	100	0.5962156	100	0.9821822	100	0.939983
13C12-1,2,3,4,7,8-HxCDF	100	1.152029	100	1.095885	100	1.513935	100	1.121285	100	1.094572	100	1.032122
13C12-1,2,3,6,7,8-HxCDF	100	1.353853	100	1.348693	100	1.689158	100	1.367383	100	1.37092	100	1.188788
13C12-2,3,4,6,7,8-HxCDF	100	1.092029	100	1.127896	100	1.240354	100	1.126074	100	1.087409	100	1.101774
13C12-1,2,3,7,8,9-HxCDF	100	0.8958406	100	0.9493947	100	0.9152119	100	0.9630403	100	0.8996667	100	0.9673701
13C12-1,2,3,4,7,8-HxCDD	100	0.9718531	100	0.9656819	100	1.113686	100	0.9864835	100	0.9766715	100	0.95586
13C12-1,2,3,6,7,8-HxCDD	100	1.184228	100	1.157253	100	1.278683	100	1.163318	100	1.111106	100	1.045546

INITIAL CALIBRATION DATA

EPA 1613B

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GC00015	Instrument:	AUTOSPEC01
Calibration Date:	03/03/2023	Column (1):	RTX-Dioxin2

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RRF	Conc	**RRF**	Conc	RRF	Conc	RRF	Conc	**RRF**	Conc	**RRF**
13C12-1,2,3,4,6,7,8-HpCDF	100	0.7396157	100	0.9023055	100	1.063192	100	0.9589237	100	0.7622694	100	0.9449039
13C12-1,2,3,4,7,8,9-HpCDF	100	0.6488087	100	0.8119515	100	0.8176949	100	0.8667001	100	0.665459	100	0.8078955
13C12-1,2,3,4,6,7,8-HpCDD	100	0.724191	100	0.8737196	100	0.9555336	100	0.9094052	100	0.7229358	100	0.8549505
13C12-OCDD	200	0.701507	200	0.6312376	200	0.823691	200	0.8980531	200	0.7066522	200	0.8436876
37Cl4-2,3,7,8-TCDD	0.1	1.576039	0.5	1.320077	2	1.177166	10	1.132717	40	1.2366	200	1.284223
13C12-1,2,3,4-TCDD	100	1	100	1	100	1	100	1	100	1	100	1
13C12-1,2,3,7,8,9-HxCDD	100	1	100	1	100	1	100	1	100	1	100	1

INITIAL CALIBRATION DATA

EPA 1613B

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GC00015	Instrument:	AUTOSPEC01
Calibration Date:	03/03/2023	Column (1):	RTX-Dioxin2

COMPOUND	Mean RRF	RRF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
2,3,7,8-TCDF	0.7015272	2.1			RSD ()	
2,3,7,8-TCDD	1.148662	2.3			RSD ()	
1,2,3,7,8-PeCDF	0.67923	7.0			RSD ()	
2,3,4,7,8-PeCDF	0.7861704	2.6			RSD ()	
1,2,3,7,8-PeCDD	1.021845	4.5			RSD ()	
1,2,3,4,7,8-HxCDF	1.166038	2.4			RSD ()	
1,2,3,6,7,8-HxCDF	1.090741	4.5			RSD ()	
2,3,4,6,7,8-HxCDF	1.139699	5.0			RSD ()	
1,2,3,7,8,9-HxCDF	1.137093	2.8			RSD ()	
1,2,3,4,7,8-HxCDD	0.9955689	4.4			RSD ()	
1,2,3,6,7,8-HxCDD	1.000938	2.7			RSD ()	
1,2,3,7,8,9-HxCDD	0.9071139	6.0			RSD ()	
1,2,3,4,6,7,8-HpCDF	1.002993	4.9			RSD ()	
1,2,3,4,7,8,9-HpCDF	0.9531152	5.8			RSD ()	
1,2,3,4,6,7,8-HpCDD	1.039013	4.1			RSD ()	
OCDF	0.7778078	6.7			RSD ()	
OCDD	0.9199537	5.8			RSD ()	
13C12-2,3,7,8-TCDF	1.620196	4.4			RSD ()	
13C12-2,3,7,8-TCDD	1.152409	3.8			RSD ()	
13C12-1,2,3,7,8-PeCDF	1.240452	15.9			RSD ()	
13C12-2,3,4,7,8-PeCDF	1.117786	17.7			RSD ()	
13C12-1,2,3,7,8-PeCDD	0.8288129	18.3			RSD ()	
13C12-1,2,3,4,7,8-HxCDF	1.168305	14.9			RSD ()	
13C12-1,2,3,6,7,8-HxCDF	1.386466	11.8			RSD ()	
13C12-2,3,4,6,7,8-HxCDF	1.129256	5.0			RSD ()	
13C12-1,2,3,7,8,9-HxCDF	0.9317541	3.4			RSD ()	
13C12-1,2,3,4,7,8-HxCDD	0.9950393	5.9			RSD ()	
13C12-1,2,3,6,7,8-HxCDD	1.156689	6.7			RSD ()	
13C12-1,2,3,4,6,7,8-HpCDF	0.8952017	13.8			RSD ()	
13C12-1,2,3,4,7,8,9-HpCDF	0.7697516	11.7			RSD ()	
13C12-1,2,3,4,6,7,8-HpCDD	0.8401226	11.5			RSD ()	

INITIAL CALIBRATION DATA

EPA 1613B

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GC00015	Instrument:	AUTOSPEC01
Calibration Date:	03/03/2023	Column (1):	RTX-Dioxin2

COMPOUND	Mean RRF	RRF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
13C12-OCDD	0.7674714	13.4			RSD ()	
37Cl4-2,3,7,8-TCDD	1.287804	12.2			RSD ()	
13C12-1,2,3,4-TCDD	1	0.0			RSD ()	
13C12-1,2,3,7,8,9-HxCDD	1	0.0			RSD ()	

ANALYSIS SEQUENCE

SLC0045

Instrument: AUTOSPEC01 HRGCMS Column ID: K2310
Calibration ID: GC00015 Tune File: FEB0923_1-5
EM Voltage: 350 Resolution check times : 9:51, 18:18

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SLC0045-RES1	ISCW1	QC		2	L002084		03/03/2023 10:39	23030303	PK	
SLC0045-CAL1	CSLCW	QC		3	I005460		03/03/2023 11:28	23030304	PK	
SLC0045-CAL2	CS1CW	QC		4	I005456		03/03/2023 12:23	23030305	PK	
SLC0045-CAL3	CS2CW	QC		5	I005457		03/03/2023 13:16	23030306	PK	
SLC0045-CAL4	CS3CW	QC		6	K009821		03/03/2023 14:06	23030307	PK	
SLC0045-CAL5	CS4CW	QC		7	I005458		03/03/2023 14:59	23030308	PK	
SLC0045-CAL6	CS5CW	QC		8	I005459		03/03/2023 15:47	23030309	PK	
SLC0045-SCV1	ICVCW	QC		9	H008219		03/03/2023 16:36	23030310	PK	
SLC0045-CCV1	CS3V4	QC		10	K009821		03/03/2023 17:25	23030311	PK	
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Last Altered: Monday, March 06, 2023 10:57:27 Pacific Standard Time
Printed: Monday, March 06, 2023 10:58:44 Pacific Standard Time

3/6/23 PK

Event	Details	Sample ID
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Process Integrate		
Process Calibrate		
Process Quantify		
Dataset Created		
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Peak deleted	Sample:23030304, Compound:OD, RT:44.990	1
Peak deleted	Sample:23030304, Compound:TF, RT:25.774	1
Pre modification peak	Sample:23030305, Compound:TF, RT:25.774	2
Peak modified	Sample:23030305, Compound:TF, RT:25.774	2
Pre modification peak	Sample:23030304, Compound:HPD, RT:40.261	1
Peak modified	Sample:23030304, Compound:HPD, RT:40.261	1
Peak deleted	Sample:23030308, Compound:PF, RT:32.328	5
Peak deleted	Sample:23030309, Compound:PF, RT:32.307	6
Peak deleted	Sample:23030309, Compound:HF, RT:33.220	6
Peak deleted	Sample:23030309, Compound:TD, RT:27.017	6
Peak deleted	Sample:23030309, Compound:PD, RT:31.995	6
Peak deleted	Sample:23030309, Compound:PD, RT:31.917	6
Peak deleted	Sample:23030308, Compound:HD, RT:34.000	5
Peak deleted	Sample:23030308, Compound:HPD, RT:39.225	5
Peak deleted	Sample:23030309, Compound:HPD, RT:39.214	6
Pre modification peak	Sample:23030305, Compound:OF, RT:45.237	2
Peak modified	Sample:23030305, Compound:OF, RT:45.237	2
Dataset Saved	Saved to 'T:\Autospec\Processed Data Batch\230303ICIH.qld'	

Dataset: T:\Autospec\Processed Data Batch\230303IHOP.qld
Last Altered: Monday, March 06, 2023 11:36:30 Pacific Standard Time
Printed: Monday, March 06, 2023 11:37:17 Pacific Standard Time

Method: T:\Autospec\Methods\Dioxin230303.mdb 03 Mar 2023 14:58:50
Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 10:57:27

ID: CS3W1, Name: 23030302, Date: 03-Mar-2023, Time: 09:51:40, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	25.788	1.001	4.469e4	5.839e4	0.702	0.765	0.770	894	1638	6.87e5	9.09e5	769.3	554.8	NO	bb	bb	9.550
12378-PeCDF	29.956	1.001	2.355e5	1.540e5	0.679	1.529	1.550	2187	1572	3.61e6	2.40e6	1652.4	1526.9	NO	bb	bb	49.641
23478-PeCDF	31.293	1.001	2.214e5	1.482e5	0.786	1.494	1.550	2187	1572	3.41e6	2.30e6	1560.8	1464.8	NO	bb	bb	47.528
123478-HxCDF	34.914	1.001	2.600e5	2.102e5	1.166	1.237	1.240	1592	1910	4.13e6	3.31e6	2594.2	1730.9	NO	bd	bd	47.118
234678-HxCDF	35.917	1.001	2.733e5	2.175e5	1.140	1.257	1.240	1592	1910	4.33e6	3.47e6	2719.2	1818.9	NO	bb	bb	49.341
123678-HxCDF	35.048	1.000	2.727e5	2.151e5	1.091	1.268	1.240	1592	1910	4.23e6	3.33e6	2659.9	1743.3	NO	db	db	49.569
123789-HxCDF	36.941	1.000	2.420e5	1.912e5	1.137	1.266	1.240	1592	1910	3.95e6	3.13e6	2482.2	1637.3	NO	bb	bb	46.959
1234678-HpCDF	38.780	1.000	1.767e5	1.776e5	1.003	0.995	1.050	1849	2300	2.99e6	3.02e6	1618.0	1311.0	NO	bb	bb	47.490
1234789-HpCDF	41.019	1.000	1.595e5	1.575e5	0.953	1.013	1.050	1849	2300	2.36e6	2.33e6	1274.2	1012.6	NO	bb	bb	50.221
OCDF	45.246	1.005	2.326e5	2.612e5	0.778	0.891	0.890	910	1225	2.82e6	3.14e6	3100.2	2559.9	NO	bb	bb	88.591
2378-TCDD	26.438	1.001	5.709e4	7.150e4	1.149	0.798	0.770	1506	757	9.09e5	1.12e6	603.1	1485.0	NO	bb	bb	9.450
12378-PeCDD	31.549	1.001	2.156e5	1.424e5	1.022	1.514	1.550	2044	1419	3.32e6	2.17e6	1626.0	1530.4	NO	bb	bb	49.654
123478-HxCDD	36.028	1.000	2.225e5	1.815e5	0.996	1.226	1.240	1845	1377	3.65e6	2.93e6	1979.4	2130.4	NO	bd	bd	50.053
123678-HxCDD	36.150	1.000	2.361e5	1.995e5	1.001	1.184	1.240	1845	1377	3.83e6	3.15e6	2076.5	2285.7	NO	db	db	49.648
123789-HxCDD	36.529	1.011	2.267e5	1.883e5	0.907	1.204	1.240	1845	1377	3.65e6	3.02e6	1979.8	2191.3	NO	bb	bb	54.229
1234678-HpCDD	40.284	1.001	1.918e5	1.891e5	1.039	1.015	1.050	2026	1655	2.99e6	2.92e6	1477.4	1764.9	NO	bb	bb	47.619
OCDD	45.008	1.000	3.015e5	3.475e5	0.920	0.868	0.890	1418	1100	3.70e6	4.29e6	2606.9	3904.9	NO	bb	bb	98.432
13C-2378-TCDF	25.774	1.007	6.611e5	8.775e5	1.620	0.753	0.770	2458	1918	1.00e7	1.34e7	4080.0	6997.2	NO	bb	bb	94.015
13C-12378-PeCDF	29.934	1.169	6.937e5	4.618e5	1.240	1.502	1.550	2176	1857	1.07e7	7.10e6	4925.2	3826.5	NO	bb	bb	92.213
13C-23478-PeCDF	31.271	1.221	5.928e5	3.963e5	1.118	1.496	1.550	2176	1857	9.20e6	6.25e6	4229.1	3368.5	NO	bb	bb	87.601
13C-123478-HxCDF	34.891	0.955	2.871e5	5.687e5	1.168	0.505	0.510	1657	1593	4.56e6	9.04e6	2750.7	5674.1	NO	bd	bd	84.013
13C-123678-HxCDF	35.036	0.959	3.069e5	5.954e5	1.386	0.515	0.510	1657	1593	4.75e6	9.14e6	2868.0	5738.5	NO	db	db	74.642
13C-234678-HxCDF	35.894	0.983	2.954e5	5.775e5	1.129	0.512	0.510	1657	1593	4.85e6	9.48e6	2926.1	5951.0	NO	bb	bb	88.651
13C-123789-HxCDF	36.930	1.011	2.724e5	5.390e5	0.932	0.505	0.510	1657	1593	4.39e6	8.57e6	2648.2	5379.8	NO	bb	bb	99.871
13C-1234678-HpCDF	38.769	1.062	2.262e5	5.177e5	0.895	0.437	0.440	2036	2545	3.83e6	8.70e6	1881.8	3416.5	NO	bb	bb	95.295
13C-1234789-HpCDF	41.008	1.123	1.995e5	4.627e5	0.770	0.431	0.440	2036	2545	2.95e6	6.70e6	1450.8	2632.3	NO	bb	bb	98.667
13C-1234-TCDD	25.605	0.000	4.500e5	5.601e5	1.000	0.803	0.770	1910	1117	7.08e6	8.81e6	3705.2	7891.1	NO	bb	bb	100.000
13C-2378-TCDD	26.424	1.032	5.241e5	6.605e5	1.152	0.794	0.770	1910	1117	7.92e6	9.96e6	4144.8	8917.7	NO	bb	bb	101.762
13C-12378-PeCDD	31.527	1.231	4.348e5	2.708e5	0.829	1.606	1.550	951	872	6.72e6	4.16e6	7062.4	4771.1	NO	bb	bb	84.283
13C-123478-HxCDD	36.017	0.986	4.575e5	3.533e5	0.995	1.295	1.240	1714	1036	7.67e6	5.90e6	4475.1	5696.2	NO	bd	bd	93.458
13C-123678-HxCDD	36.139	0.990	4.929e5	3.835e5	1.157	1.285	1.240	1714	1036	7.72e6	6.07e6	4504.9	5859.4	NO	db	db	86.905
13C-1234678-HpCDD	40.262	1.103	3.870e5	3.828e5	0.840	1.011	1.050	1736	1260	5.92e6	5.62e6	3411.3	4462.2	NO	bb	bb	105.085
13C-OCDD	44.999	1.232	6.781e5	7.554e5	0.767	0.898	0.890	1440	1232	8.22e6	9.13e6	5710.3	7413.0	NO	bb	bb	214.218
13C-123789-HxCDD	36.518	0.000	4.889e5	3.830e5	1.000	1.277	1.240	1714	1036	7.91e6	6.13e6	4618.2	5918.8	NO	bb	bb	100.000
37CL-2378-TCDD	26.438	1.033	1.177e5		1.288			2053		1.80e6		877.6			bb		9.046

Dataset: T:\Autospec\Processed Data Batch\230303IHOP.qld
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ID: CS3W1, Name: 23030302, Date: 03-Mar-2023, Time: 09:51:40, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF	22.285	0.865	4.825e4	6.619e4	0.802	0.729	0.770	894	1638	7.69e5	1.08e6	860.8	657.5	NO	bb	bb	9.280
1289-TCDF	27.286	1.059	4.233e4	5.922e4	0.678	0.715	0.770	894	1638	6.48e5	8.96e5	725.0	547.0	NO	db	db	9.735
13468-PECDF	27.145	0.907	4.529e5	2.964e5	1.246	1.528	1.550	639	866	7.07e6	4.64e6	11052.6	5356.5	NO	bb	bb	52.031
12389-PECDF	32.329	1.080	1.727e5	1.137e5	0.496	1.519	1.550	2187	1572	2.66e6	1.70e6	1217.2	1080.5	NO	bb	bb	49.938
123468-HXCDF	33.243	0.953	2.450e5	1.964e5	1.169	1.248	1.240	1592	1910	3.71e6	2.99e6	2333.1	1567.3	NO	bb	bb	44.113
1368-TCDD	23.571	0.892	5.082e4	6.674e4	1.015	0.761	0.770	1506	757	8.30e5	1.09e6	551.2	1438.0	NO	bb	bb	9.774
1289-TCDD	27.031	1.023	4.817e4	6.482e4	0.909	0.743	0.770	1506	757	7.39e5	9.76e5	490.7	1289.2	NO	bb	bb	10.496
12479-PECDD	28.831	0.914	4.117e5	2.743e5	2.301	1.501	1.550	2044	1419	3.99e6	2.64e6	1950.7	1862.6	NO	bb	bb	42.238
12389-PECDD	31.939	1.013	2.280e5	1.502e5	1.184	1.518	1.550	2044	1419	3.50e6	2.32e6	1711.4	1633.6	NO	bb	bb	45.288
124679-HXCDD	34.022	0.945	2.111e5	1.738e5	1.115	1.214	1.240	1845	1377	3.36e6	2.72e6	1819.4	1971.8	NO	bb	bb	42.563
1234679-HPCDD	39.236	0.975	2.063e5	2.043e5	1.137	1.010	1.050	2026	1655	3.38e6	3.38e6	1668.0	2041.4	NO	bb	bb	46.924
Total-tetrafurans			1.368e5		0.727			894		2.13e6							28.888
Total-penta1			4.529e5					639		7.07e6							52.031
Total-pentafurans			6.685e5		0.654			2187		1.03e7							156.333
Total-hexafurans			1.293e6		1.141			1592		2.04e7							237.100
Total-heptafurans			3.381e5		0.978			1849		5.38e6							98.217
Total-Furans			3.122e6		0.922			894		4.80e7							661.160
Total-tetradioxins			2.626e5		1.024			1506		3.74e6							49.711
Total-pentadioxins			8.563e5		1.502			2044		1.08e7							137.339
Total-hexadioxins			8.975e5		1.005			1845		1.45e7							196.701
Total-heptadioxins			3.982e5		1.088			2026		6.38e6							94.566
Total-Dioxins			2.716e6		1.130			1506		3.92e7							576.750
Total-TEQ			5.838e6					1506		8.72e7							1237.909
FUNCTION1 PFK			0.000e0					705807		0.00e0							
FUNCTION2 PFK			1.098e6					272509		2.65e6							0.000
FUNCTION3 PFK			8.030e5					419872		3.44e6							0.000
FUNCTION4 PFK			2.346e5					346452		6.90e6							
FUNCTION5 PFK			5.429e4					176842		2.44e6							
FUNCTION1 HXCD...			8.708e2					511		1.38e4							0.000
FUNCTION1 HPCD...																	
FUNCTION2 HPCD...			1.374e3					1181		2.70e4							0.000
FUNCTION3 OCDPE			4.232e2					570		6.10e3							0.000
FUNCTION4 NCDPE			7.938e2					683		4.57e3							0.000
FUNCTION5 DCDPE			0.000e0					526		0.00e0							

Method: T:\Autospec\Methods\Dioxin230303.mdb 03 Mar 2023 14:58:50
Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 10:57:27

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TF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.29	4.233e4	5.922e4	0.678	0.71	0.77	725.0	YES	NO	db	db	9.735
2	Total-tetrafurans	27.16	6.976e2	1.059e3	0.727	0.66	0.77	14.1	YES	NO	bd	bd	0.157
3	2378-TCDF	25.79	4.469e4	5.839e4	0.702	0.77	0.77	769.3	YES	NO	bb	bb	9.550
4	Total-tetrafurans	24.88	4.805e2	5.664e2	0.727	0.85	0.77	7.5	YES	NO	bb	bb	0.094
5	Total-tetrafurans	24.57	3.491e2	4.664e2	0.727	0.75	0.77	6.2	YES	NO	bd	bd	0.073
6	1368-TCDF	22.29	4.825e4	6.619e4	0.802	0.73	0.77	860.8	YES	NO	bb	bb	9.280

PP

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	13468-PECDF	27.14	4.529e5	2.964e5	1.246	1.53	1.55	11052.6	YES	NO	bb	bb	52.031

PF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12378-PeCDF	29.96	2.355e5	1.540e5	0.679	1.53	1.55	1652.4	YES	NO	bb	bb	49.641
2	Total-pentafurans	28.81	3.891e4	2.579e4	0.654	1.51	1.55	273.1	YES	NO	bb	bb	9.226
3	12389-PECDF	32.33	1.727e5	1.137e5	0.496	1.52	1.55	1217.2	YES	NO	bb	bb	49.938
4	23478-PeCDF	31.29	2.214e5	1.482e5	0.786	1.49	1.55	1560.8	YES	NO	bb	bb	47.528

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDF	36.94	2.420e5	1.912e5	1.137	1.27	1.24	2482.2	YES	NO	bb	bb	46.959
2	234678-HxCDF	35.92	2.733e5	2.175e5	1.140	1.26	1.24	2719.2	YES	NO	bb	bb	49.341
3	123678-HxCDF	35.05	2.727e5	2.151e5	1.091	1.27	1.24	2659.9	YES	NO	db	db	49.569
4	123478-HxCDF	34.91	2.600e5	2.102e5	1.166	1.24	1.24	2594.2	YES	NO	bd	bd	47.118
5	123468-HXCDF	33.24	2.450e5	1.964e5	1.169	1.25	1.24	2333.1	YES	NO	bb	bb	44.113

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HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-heptafurans	41.38	1.097e2	1.037e2	0.978	1.06	1.05	1.8	NO	NO	bb	bb	0.031
2	1234789-HpCDF	41.02	1.595e5	1.575e5	0.953	1.01	1.05	1274.2	YES	NO	bb	bb	50.221
3	Total-heptafurans	39.45	1.654e3	1.420e3	0.978	1.17	1.05	14.3	YES	NO	bb	bb	0.447
4	Total-heptafurans	39.28	9.725e1	9.433e1	0.978	1.03	1.05	1.5	NO	NO	bb	bb	0.028
5	1234678-HpCDF	38.78	1.767e5	1.776e5	1.003	1.00	1.05	1618.0	YES	NO	bb	bb	47.490

Furans,TF,PP,PF,HF,HPF,OF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.29	4.233e4	5.922e4	0.678	0.71	0.77	725.0	YES	NO	db	db	9.735
2	Total-tetrafurans	27.16	6.976e2	1.059e3	0.727	0.66	0.77	14.1	YES	NO	bd	bd	0.157
3	2378-TCDF	25.79	4.469e4	5.839e4	0.702	0.77	0.77	769.3	YES	NO	bb	bb	9.550
4	Total-tetrafurans	24.88	4.805e2	5.664e2	0.727	0.85	0.77	7.5	YES	NO	bb	bb	0.094
5	Total-tetrafurans	24.57	3.491e2	4.664e2	0.727	0.75	0.77	6.2	YES	NO	bd	bd	0.073
6	1368-TCDF	22.29	4.825e4	6.619e4	0.802	0.73	0.77	860.8	YES	NO	bb	bb	9.280
7	12378-PeCDF	29.96	2.355e5	1.540e5	0.679	1.53	1.55	1652.4	YES	NO	bb	bb	49.641
8	Total-pentafurans	28.81	3.891e4	2.579e4	0.654	1.51	1.55	273.1	YES	NO	bb	bb	9.226
9	12389-PECDF	32.33	1.727e5	1.137e5	0.496	1.52	1.55	1217.2	YES	NO	bb	bb	49.938
10	23478-PeCDF	31.29	2.214e5	1.482e5	0.786	1.49	1.55	1560.8	YES	NO	bb	bb	47.528
11	123789-HxCDF	36.94	2.420e5	1.912e5	1.137	1.27	1.24	2482.2	YES	NO	bb	bb	46.959
12	234678-HxCDF	35.92	2.733e5	2.175e5	1.140	1.26	1.24	2719.2	YES	NO	bb	bb	49.341
13	123678-HxCDF	35.05	2.727e5	2.151e5	1.091	1.27	1.24	2659.9	YES	NO	db	db	49.569
14	123478-HxCDF	34.91	2.600e5	2.102e5	1.166	1.24	1.24	2594.2	YES	NO	bd	bd	47.118
15	123468-HXCDF	33.24	2.450e5	1.964e5	1.169	1.25	1.24	2333.1	YES	NO	bb	bb	44.113
16	Total-heptafurans	41.38	1.097e2	1.037e2	0.978	1.06	1.05	1.8	NO	NO	bb	bb	0.031
17	1234789-HpCDF	41.02	1.595e5	1.575e5	0.953	1.01	1.05	1274.2	YES	NO	bb	bb	50.221
18	Total-heptafurans	39.45	1.654e3	1.420e3	0.978	1.17	1.05	14.3	YES	NO	bb	bb	0.447
19	Total-heptafurans	39.28	9.725e1	9.433e1	0.978	1.03	1.05	1.5	NO	NO	bb	bb	0.028
20	1234678-HpCDF	38.78	1.767e5	1.776e5	1.003	1.00	1.05	1618.0	YES	NO	bb	bb	47.490
21	OCDF	45.25	2.326e5	2.612e5	0.778	0.89	0.89	3100.2	YES	NO	bb	bb	88.591
22	13468-PECDF	27.14	4.529e5	2.964e5	1.246	1.53	1.55	11052.6	YES	NO	bb	bb	52.031

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TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1368-TCDD	23.57	5.082e4	6.674e4	1.015	0.76	0.77	551.2	YES	NO	bb	bb	9.774
2	1289-TCDD	27.03	4.817e4	6.482e4	0.909	0.74	0.77	490.7	YES	NO	bb	bb	10.496
3	2378-TCDD	26.44	5.709e4	7.150e4	1.149	0.80	0.77	603.1	YES	NO	bb	bb	9.450
4	Total-tetradioxins	26.11	8.149e4	1.045e5	1.024	0.78	0.77	583.1	YES	NO	bb	bb	15.330
5	Total-tetradioxins	25.62	2.499e4	3.156e4	1.024	0.79	0.77	257.1	YES	NO	bb	bb	4.660

PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12389-PECDD	31.94	2.280e5	1.502e5	1.184	1.52	1.55	1711.4	YES	NO	bb	bb	45.288
2	12378-PeCDD	31.55	2.156e5	1.424e5	1.022	1.51	1.55	1626.0	YES	NO	bb	bb	49.654
3	Total-pentadioxins	30.87	1.016e3	6.817e2	1.502	1.49	1.55	7.9	YES	NO	bb	bb	0.160
4	12479-PECDD	28.83	4.117e5	2.743e5	2.301	1.50	1.55	1950.7	YES	NO	bb	bb	42.238

HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDD	36.53	2.267e5	1.883e5	0.907	1.20	1.24	1979.8	YES	NO	bb	bb	54.229
2	123678-HxCDD	36.15	2.361e5	1.995e5	1.001	1.18	1.24	2076.5	YES	NO	db	db	49.648
3	123478-HxCDD	36.03	2.225e5	1.815e5	0.996	1.23	1.24	1979.4	YES	NO	bd	bd	50.053
4	Total-hexadioxins	35.14	9.946e2	7.755e2	1.005	1.28	1.24	9.3	YES	NO	db	bd	0.209
5	124679-HXCDD	34.02	2.111e5	1.738e5	1.115	1.21	1.24	1819.4	YES	NO	bb	bb	42.563

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234679-HPCDD	39.24	2.063e5	2.043e5	1.137	1.01	1.05	1668.0	YES	NO	bb	bb	46.924
2	Total-heptadioxins	40.58	1.040e2	8.729e1	1.088	1.19	1.05	2.1	NO	NO	bb	bb	0.023
3	1234678-HpCDD	40.28	1.918e5	1.891e5	1.039	1.01	1.05	1477.4	YES	NO	bb	bb	47.619

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Dioxins,TD,PD,HD,HPD,OD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1368-TCDD	23.57	5.082e4	6.674e4	1.015	0.76	0.77	551.2	YES	NO	bb	bb	9.774
2	1289-TCDD	27.03	4.817e4	6.482e4	0.909	0.74	0.77	490.7	YES	NO	bb	bb	10.496
3	2378-TCDD	26.44	5.709e4	7.150e4	1.149	0.80	0.77	603.1	YES	NO	bb	bb	9.450
4	Total-tetradioxins	26.11	8.149e4	1.045e5	1.024	0.78	0.77	583.1	YES	NO	bb	bb	15.330
5	Total-tetradioxins	25.62	2.499e4	3.156e4	1.024	0.79	0.77	257.1	YES	NO	bb	bb	4.660
6	12389-PECDD	31.94	2.280e5	1.502e5	1.184	1.52	1.55	1711.4	YES	NO	bb	bb	45.288
7	12378-PeCDD	31.55	2.156e5	1.424e5	1.022	1.51	1.55	1626.0	YES	NO	bb	bb	49.654
8	Total-pentadioxins	30.87	1.016e3	6.817e2	1.502	1.49	1.55	7.9	YES	NO	bb	bb	0.160
9	12479-PECDD	28.83	4.117e5	2.743e5	2.301	1.50	1.55	1950.7	YES	NO	bb	bb	42.238
10	123789-HxCDD	36.53	2.267e5	1.883e5	0.907	1.20	1.24	1979.8	YES	NO	bb	bb	54.229
11	123678-HxCDD	36.15	2.361e5	1.995e5	1.001	1.18	1.24	2076.5	YES	NO	db	db	49.648
12	123478-HxCDD	36.03	2.225e5	1.815e5	0.996	1.23	1.24	1979.4	YES	NO	bd	bd	50.053
13	Total-hexadioxins	35.14	9.946e2	7.755e2	1.005	1.28	1.24	9.3	YES	NO	db	bd	0.209
14	124679-HXCDD	34.02	2.111e5	1.738e5	1.115	1.21	1.24	1819.4	YES	NO	bb	bb	42.563
15	1234679-HPCDD	39.24	2.063e5	2.043e5	1.137	1.01	1.05	1668.0	YES	NO	bb	bb	46.924
16	Total-heptadioxins	40.58	1.040e2	8.729e1	1.088	1.19	1.05	2.1	NO	NO	bb	bb	0.023
17	1234678-HpCDD	40.28	1.918e5	1.891e5	1.039	1.01	1.05	1477.4	YES	NO	bb	bb	47.619
18	OCDD	45.01	3.015e5	3.475e5	0.920	0.87	0.89	2606.9	YES	NO	bb	bb	98.432

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TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.29	4.233e4	5.922e4	0.678	0.71	0.77	725.0	YES	NO	db	db	9.735
2	Total-tetrafurans	27.16	6.976e2	1.059e3	0.727	0.66	0.77	14.1	YES	NO	bd	bd	0.157
3	2378-TCDF	25.79	4.469e4	5.839e4	0.702	0.77	0.77	769.3	YES	NO	bb	bb	9.550
4	Total-tetrafurans	24.88	4.805e2	5.664e2	0.727	0.85	0.77	7.5	YES	NO	bb	bb	0.094
5	Total-tetrafurans	24.57	3.491e2	4.664e2	0.727	0.75	0.77	6.2	YES	NO	bd	bd	0.073
6	1368-TCDF	22.29	4.825e4	6.619e4	0.802	0.73	0.77	860.8	YES	NO	bb	bb	9.280
7	12378-PeCDF	29.96	2.355e5	1.540e5	0.679	1.53	1.55	1652.4	YES	NO	bb	bb	49.641
8	Total-pentafurans	28.81	3.891e4	2.579e4	0.654	1.51	1.55	273.1	YES	NO	bb	bb	9.226
9	12389-PECDF	32.33	1.727e5	1.137e5	0.496	1.52	1.55	1217.2	YES	NO	bb	bb	49.938
10	23478-PeCDF	31.29	2.214e5	1.482e5	0.786	1.49	1.55	1560.8	YES	NO	bb	bb	47.528
11	123789-HxCDF	36.94	2.420e5	1.912e5	1.137	1.27	1.24	2482.2	YES	NO	bb	bb	46.959
12	234678-HxCDF	35.92	2.733e5	2.175e5	1.140	1.26	1.24	2719.2	YES	NO	bb	bb	49.341
13	123678-HxCDF	35.05	2.727e5	2.151e5	1.091	1.27	1.24	2659.9	YES	NO	db	db	49.569
14	123478-HxCDF	34.91	2.600e5	2.102e5	1.166	1.24	1.24	2594.2	YES	NO	bd	bd	47.118
15	123468-HXCDF	33.24	2.450e5	1.964e5	1.169	1.25	1.24	2333.1	YES	NO	bb	bb	44.113
16	Total-heptafurans	41.38	1.097e2	1.037e2	0.978	1.06	1.05	1.8	NO	NO	bb	bb	0.031
17	1234789-HpCDF	41.02	1.595e5	1.575e5	0.953	1.01	1.05	1274.2	YES	NO	bb	bb	50.221
18	Total-heptafurans	39.45	1.654e3	1.420e3	0.978	1.17	1.05	14.3	YES	NO	bb	bb	0.447
19	Total-heptafurans	39.28	9.725e1	9.433e1	0.978	1.03	1.05	1.5	NO	NO	bb	bb	0.028
20	1234678-HpCDF	38.78	1.767e5	1.776e5	1.003	1.00	1.05	1618.0	YES	NO	bb	bb	47.490
21	OCDF	45.25	2.326e5	2.612e5	0.778	0.89	0.89	3100.2	YES	NO	bb	bb	88.591
22	13468-PECDF	27.14	4.529e5	2.964e5	1.246	1.53	1.55	11052.6	YES	NO	bb	bb	52.031
23	1368-TCDD	23.57	5.082e4	6.674e4	1.015	0.76	0.77	551.2	YES	NO	bb	bb	9.774
24	1289-TCDD	27.03	4.817e4	6.482e4	0.909	0.74	0.77	490.7	YES	NO	bb	bb	10.496
25	2378-TCDD	26.44	5.709e4	7.150e4	1.149	0.80	0.77	603.1	YES	NO	bb	bb	9.450
26	Total-tetradioxins	26.11	8.149e4	1.045e5	1.024	0.78	0.77	583.1	YES	NO	bb	bb	15.330
27	Total-tetradioxins	25.62	2.499e4	3.156e4	1.024	0.79	0.77	257.1	YES	NO	bb	bb	4.660
28	12389-PECDD	31.94	2.280e5	1.502e5	1.184	1.52	1.55	1711.4	YES	NO	bb	bb	45.288
29	12378-PeCDD	31.55	2.156e5	1.424e5	1.022	1.51	1.55	1626.0	YES	NO	bb	bb	49.654
30	Total-pentadioxins	30.87	1.016e3	6.817e2	1.502	1.49	1.55	7.9	YES	NO	bb	bb	0.160
31	12479-PECDD	28.83	4.117e5	2.743e5	2.301	1.50	1.55	1950.7	YES	NO	bb	bb	42.238
32	123789-HxCDD	36.53	2.267e5	1.883e5	0.907	1.20	1.24	1979.8	YES	NO	bb	bb	54.229
33	123678-HxCDD	36.15	2.361e5	1.995e5	1.001	1.18	1.24	2076.5	YES	NO	db	db	49.648
34	123478-HxCDD	36.03	2.225e5	1.815e5	0.996	1.23	1.24	1979.4	YES	NO	bd	bd	50.053
35	Total-hexadioxins	35.14	9.946e2	7.755e2	1.005	1.28	1.24	9.3	YES	NO	db	bd	0.209
36	124679-HXCDD	34.02	2.111e5	1.738e5	1.115	1.21	1.24	1819.4	YES	NO	bb	bb	42.563
37	1234679-HPCDD	39.24	2.063e5	2.043e5	1.137	1.01	1.05	1668.0	YES	NO	bb	bb	46.924

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TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	Total-heptadioxins	40.58	1.040e2	8.729e1	1.088	1.19	1.05	2.1	NO	NO	bb	bb	0.023
39	1234678-HpCDD	40.28	1.918e5	1.891e5	1.039	1.01	1.05	1477.4	YES	NO	bb	bb	47.619
40	OCDD	45.01	3.015e5	3.475e5	0.920	0.87	0.89	2606.9	YES	NO	bb	bb	98.432

PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	30.96	1.058e5					1.1	NO		bb		0.000
2	FUNCTION2 PFK	30.15	5.471e5					3.7	YES		bb		0.000
3	FUNCTION2 PFK	28.28	4.455e5					4.9	YES		bb		0.000

PFK3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	35.89	2.667e5					4.7	YES		bb		0.000
2	FUNCTION3 PFK	33.03	5.362e5					3.5	YES		bb		0.000

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PFK4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	38.07	4.905e4					2.0	NO		db		
2	FUNCTION4 PFK	37.96	1.071e4					1.3	NO		bd		
3	FUNCTION4 PFK	37.89	4.848e3					0.7	NO		bb		
4	FUNCTION4 PFK	42.18	1.359e4					1.2	NO		bb		
5	FUNCTION4 PFK	41.91	8.056e3					0.9	NO		db		
6	FUNCTION4 PFK	41.83	2.292e4					1.6	NO		bd		
7	FUNCTION4 PFK	41.77	1.673e4					1.5	NO		bb		
8	FUNCTION4 PFK	41.48	1.418e4					1.4	NO		bb		
9	FUNCTION4 PFK	41.32	2.104e3					0.5	NO		bb		
10	FUNCTION4 PFK	41.13	8.695e3					1.0	NO		bb		
11	FUNCTION4 PFK	40.63	8.163e3					0.8	NO		bb		
12	FUNCTION4 PFK	40.08	1.008e4					1.1	NO		db		
13	FUNCTION4 PFK	40.04	1.572e4					1.4	NO		bd		
14	FUNCTION4 PFK	39.51	7.181e3					1.0	NO		bb		
15	FUNCTION4 PFK	39.44	5.021e3					0.7	NO		bb		
16	FUNCTION4 PFK	38.96	9.511e3					1.3	NO		db		
17	FUNCTION4 PFK	38.92	2.806e4					1.5	NO		bd		

PFK5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	42.57	1.411e3					0.9	NO		bb		
2	FUNCTION5 PFK	45.95	2.307e4					3.9	YES		bb		
3	FUNCTION5 PFK	45.69	1.018e3					0.6	NO		bb		
4	FUNCTION5 PFK	45.54	1.146e3					0.7	NO		bb		
5	FUNCTION5 PFK	45.12	9.805e3					2.3	NO		bb		
6	FUNCTION5 PFK	44.83	5.276e3					1.3	NO		bb		
7	FUNCTION5 PFK	44.58	5.554e3					1.4	NO		bb		
8	FUNCTION5 PFK	44.38	2.760e3					0.9	NO		db		
9	FUNCTION5 PFK	44.35	3.252e3					1.1	NO		bd		
10	FUNCTION5 PFK	42.99	9.959e2					0.6	NO		bb		

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ETHERS1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	25.01	7.970e1					3.2	YES		bb		0.000
2	FUNCTION1 HXCD...	23.47	8.919e1					3.0	YES		db		0.000
3	FUNCTION1 HXCD...	23.40	8.065e1					2.9	NO		dd		0.000
4	FUNCTION1 HXCD...	23.32	1.305e2					3.4	YES		dd		0.000
5	FUNCTION1 HXCD...	23.22	1.146e2					2.8	NO		bd		0.000
6	FUNCTION1 HXCD...	22.41	7.936e1					4.3	YES		bb		0.000
7	FUNCTION1 HXCD...	27.40	7.698e1					2.2	NO		bb		0.000
8	FUNCTION1 HXCD...	27.14	1.376e2					3.3	YES		bb		0.000
9	FUNCTION1 HXCD...	25.79	8.222e1					1.9	NO		bb		0.000

ETHERS2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	31.53	2.999e2					2.9	NO		bb		0.000
2	FUNCTION2 HPCD...	31.17	3.219e2					4.5	YES		bb		0.000
3	FUNCTION2 HPCD...	29.58	8.369e1					1.2	NO		db		0.000
4	FUNCTION2 HPCD...	29.50	8.185e1					1.4	NO		bd		0.000
5	FUNCTION2 HPCD...	29.43	9.066e1					2.2	NO		bb		0.000
6	FUNCTION2 HPCD...	28.26	1.049e2					2.5	NO		db		0.000
7	FUNCTION2 HPCD...	28.22	1.658e2					2.8	NO		bd		0.000
8	FUNCTION2 HPCD...	28.15	1.360e2					3.3	YES		db		0.000
9	FUNCTION2 HPCD...	28.11	8.921e1					2.1	NO		bd		0.000

ETHERS4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	36.53	2.562e2					6.2	YES		bb		0.000
2	FUNCTION3 OCDPE	36.14	1.671e2					4.5	YES		bb		0.000

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ETHERS5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	42.04	8.282e1					2.4	NO		bb		0.000
2	FUNCTION4 NCDPE	38.07	5.777e2					4.3	YES		bb		0.000
3	FUNCTION4 NCDPE	37.82	1.333e2					0.0	NO		bb		0.000

ETHERS6

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

Method: T:\Autospec\Methods\Dioxin230303.mdb 03 Mar 2023 14:58:50
Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 10:57:27

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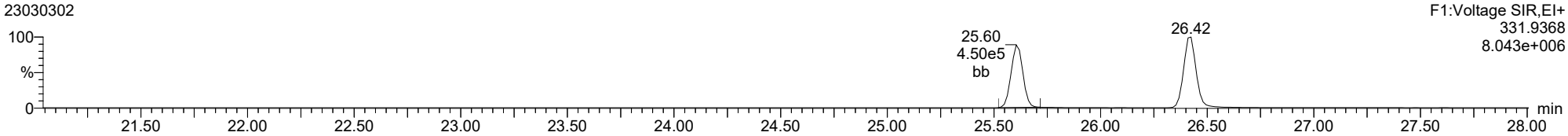
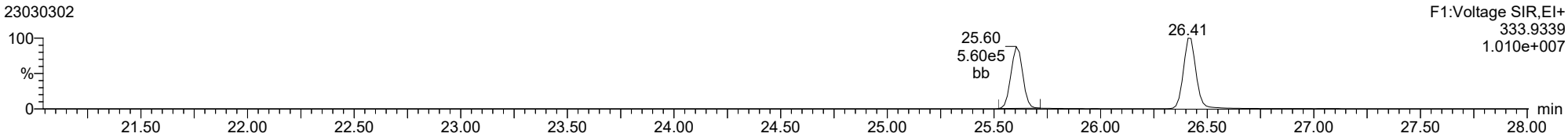
13C-1234-TCDD



13C-1234-TCDD



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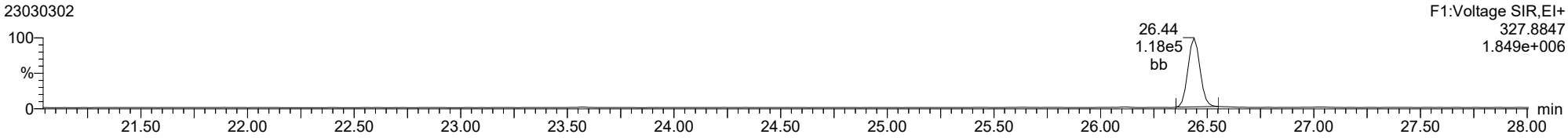

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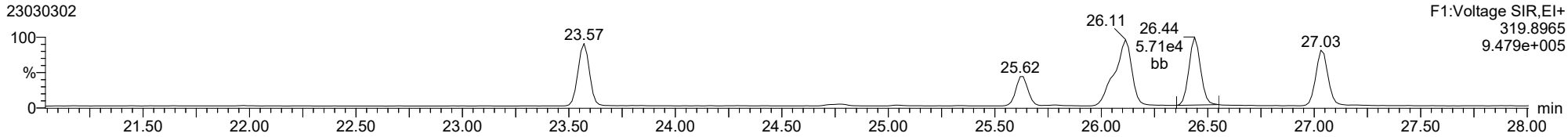
2378-TCDD



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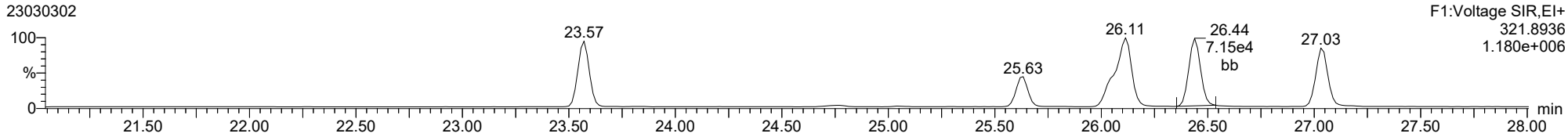

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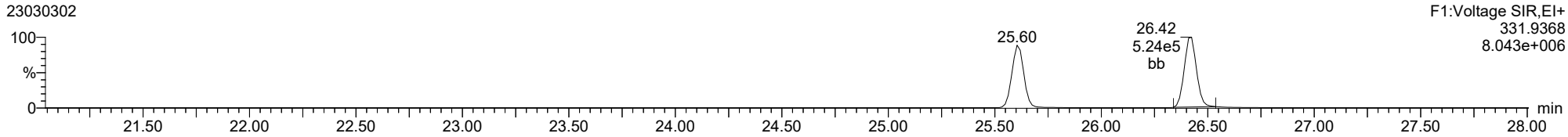
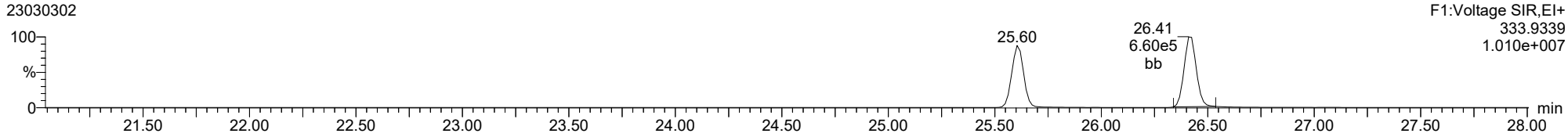
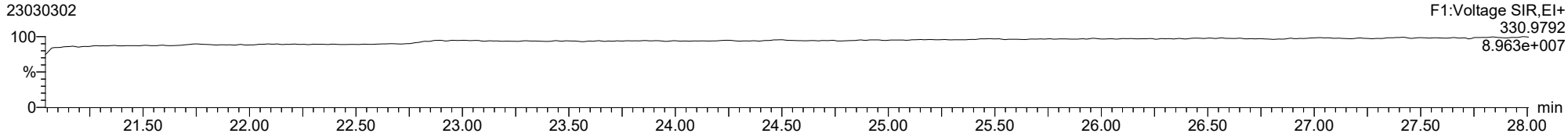


13C-2378-TCDD



FUNCTION1 PFK



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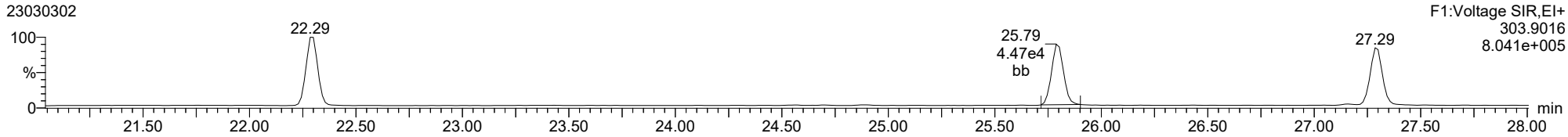
2378-TCDF



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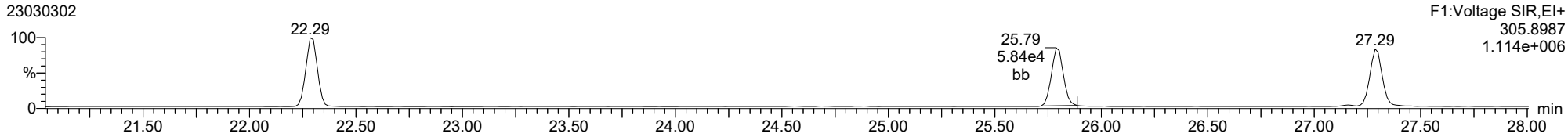

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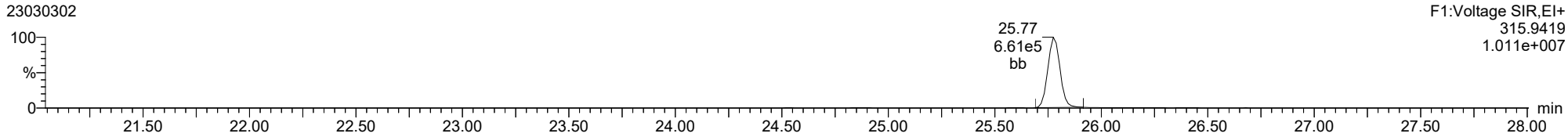

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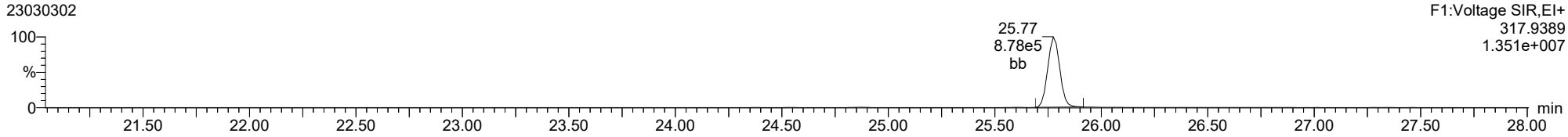

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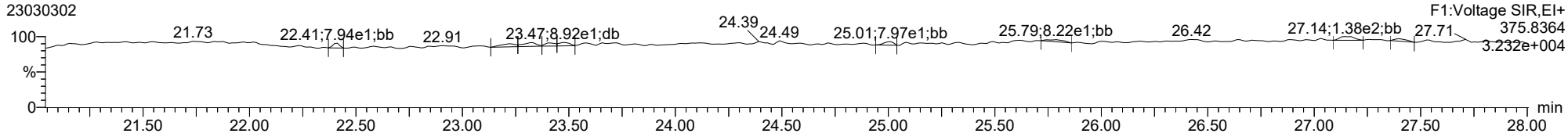

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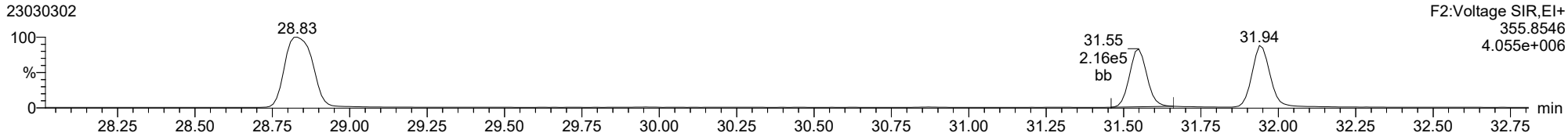
12378-PeCDD



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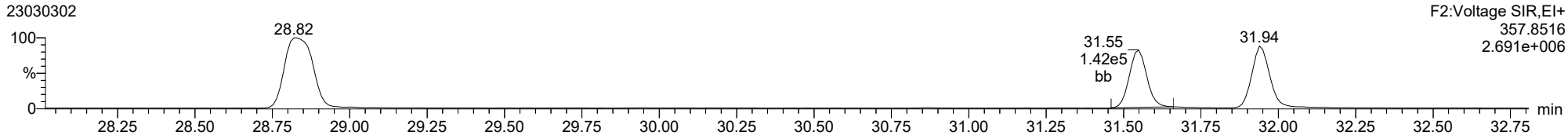

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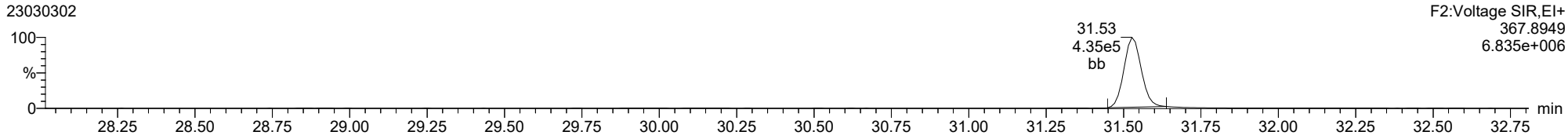

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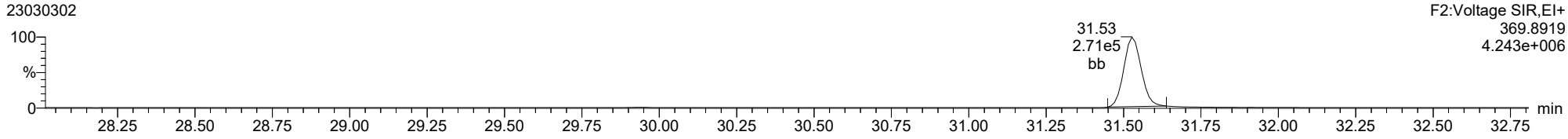

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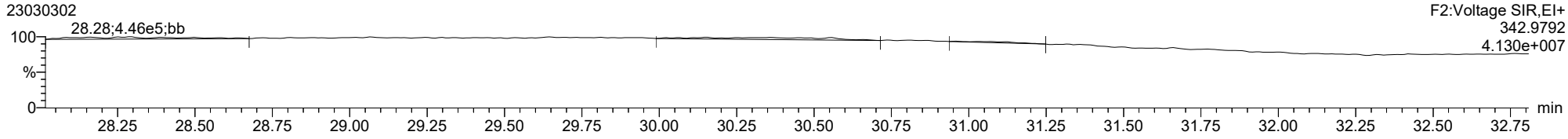

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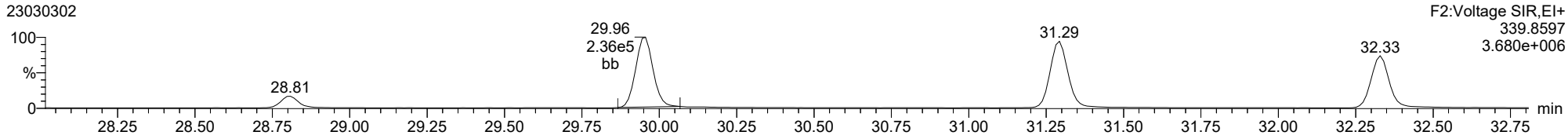

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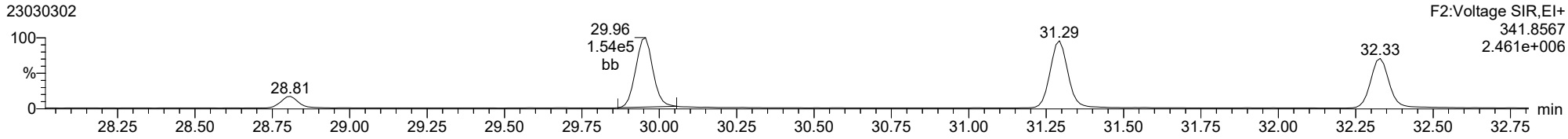

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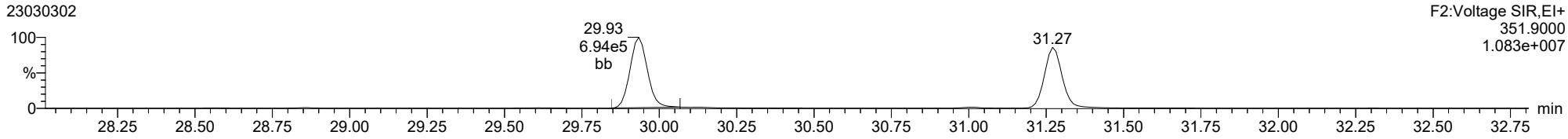

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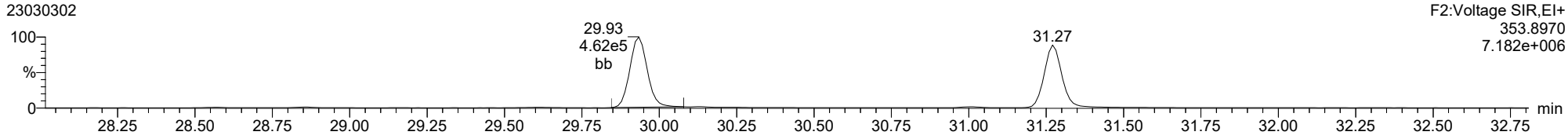
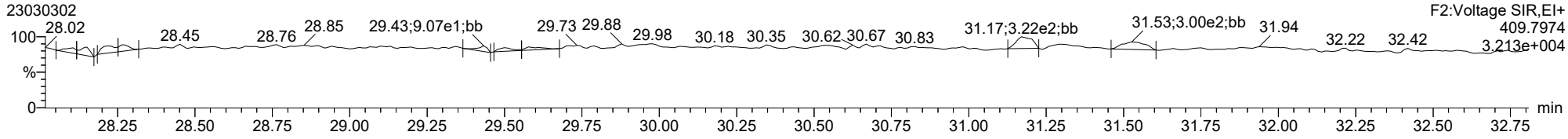


FUNCTION2 HPCDPE



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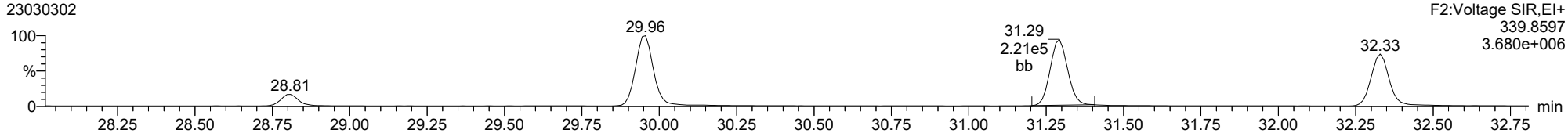
23478-PeCDF



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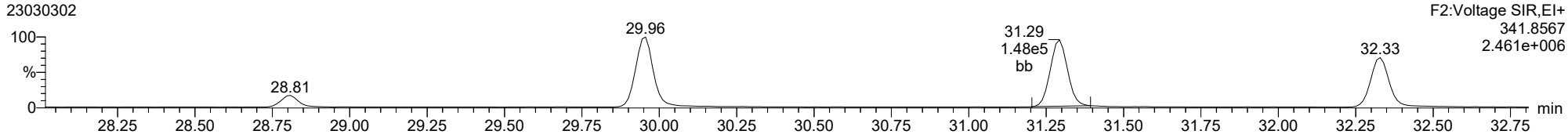

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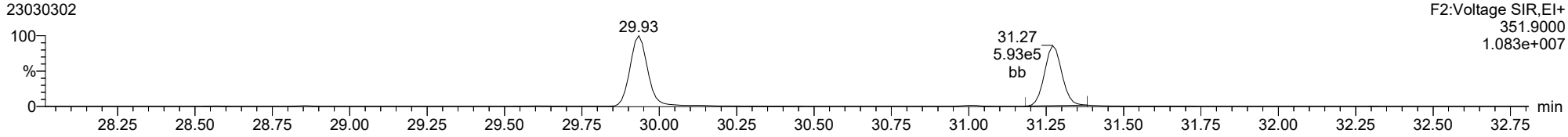

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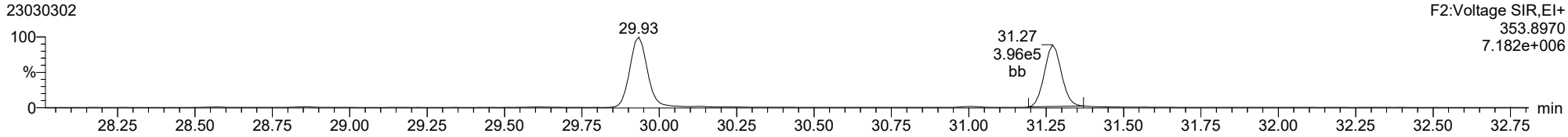
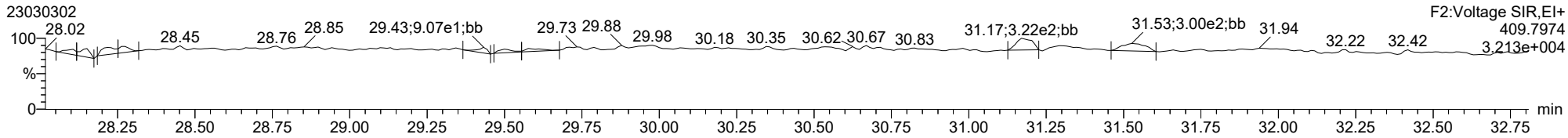


FUNCTION2 HPCDPE



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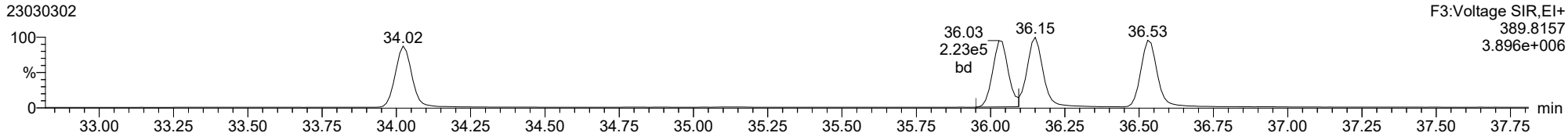

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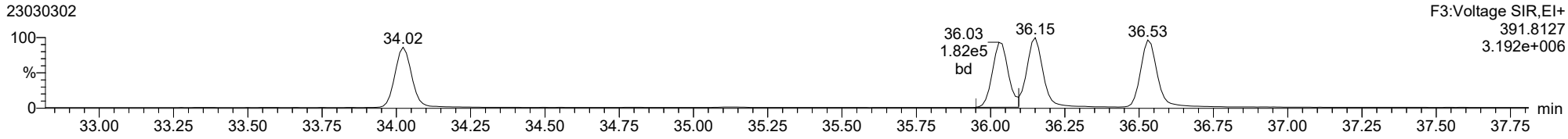

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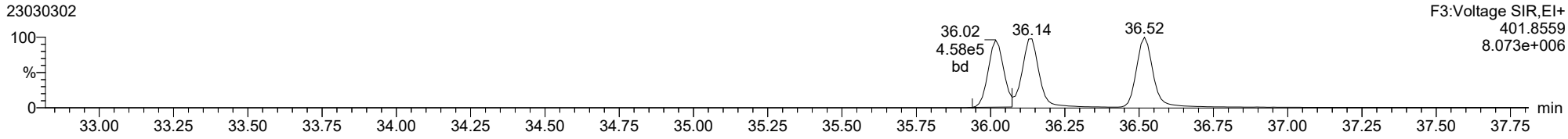

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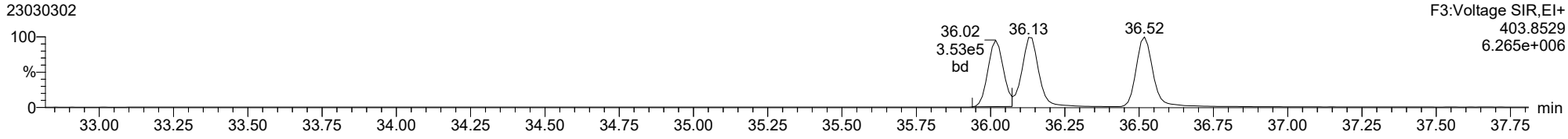
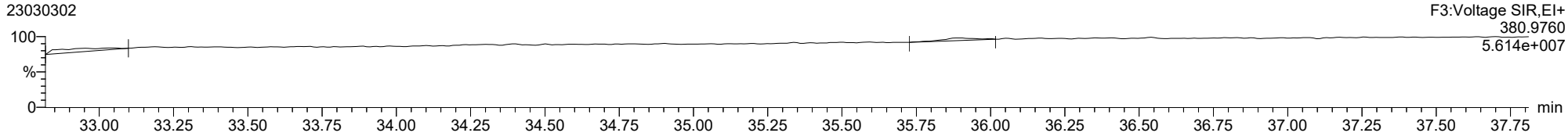


FUNCTION3 PFK



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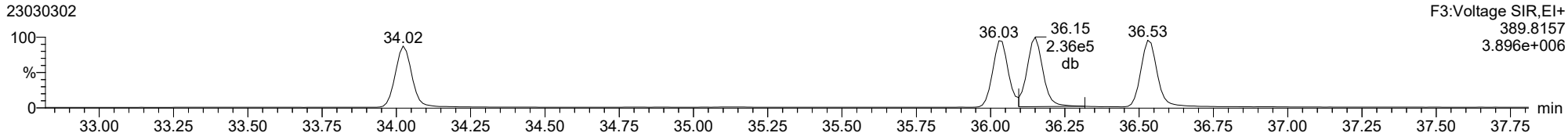

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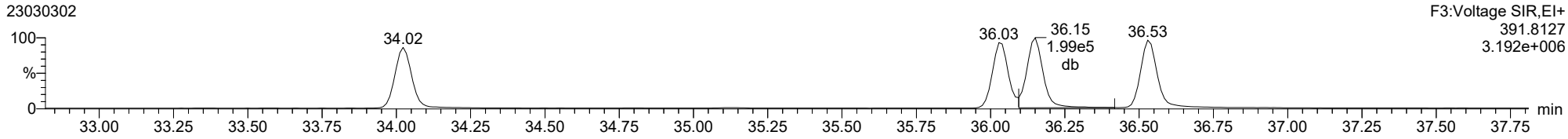

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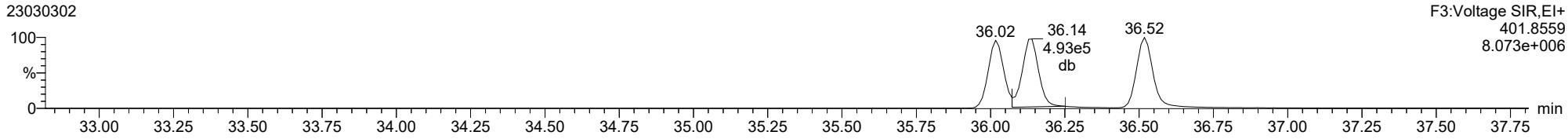

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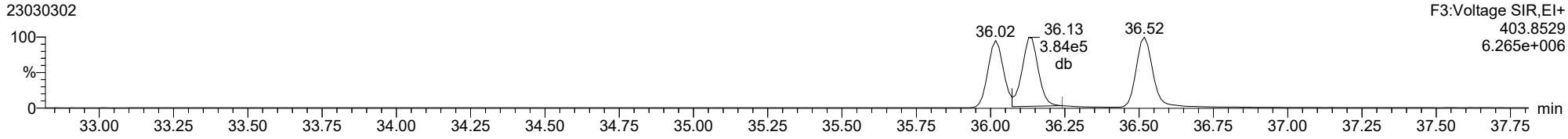

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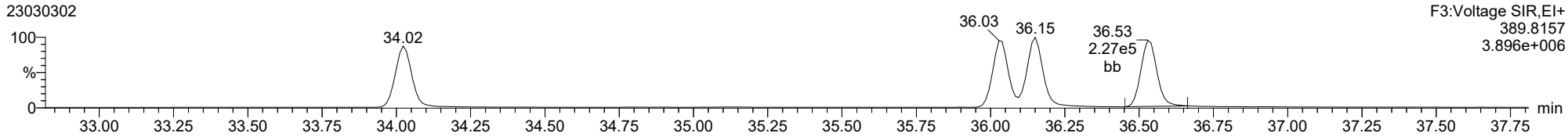

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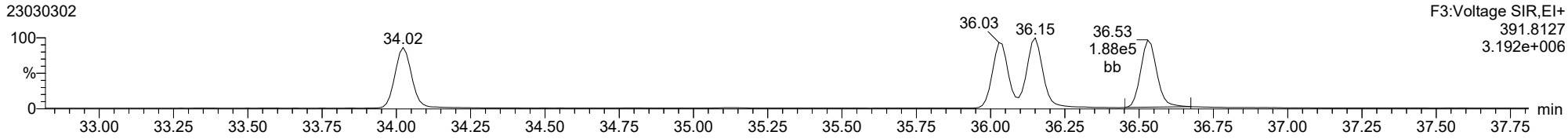

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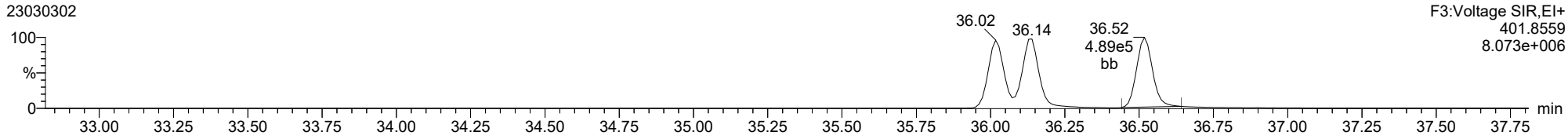

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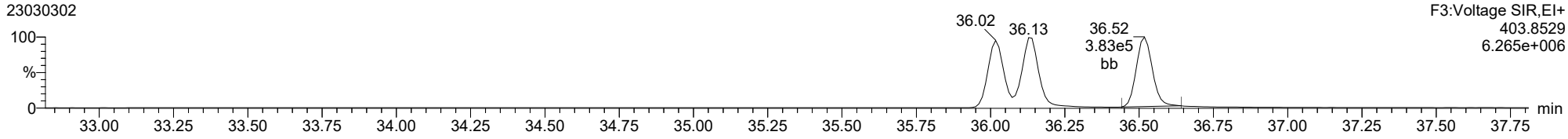

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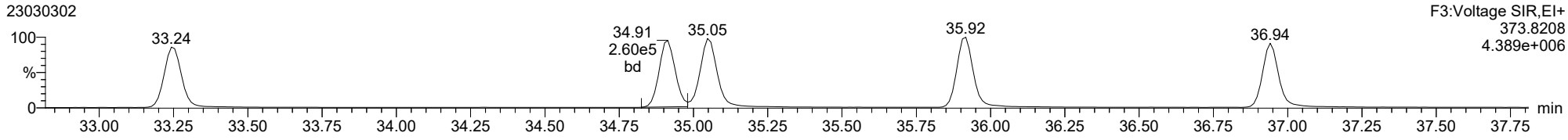

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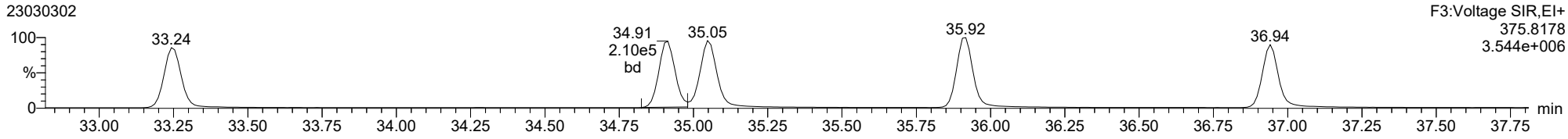

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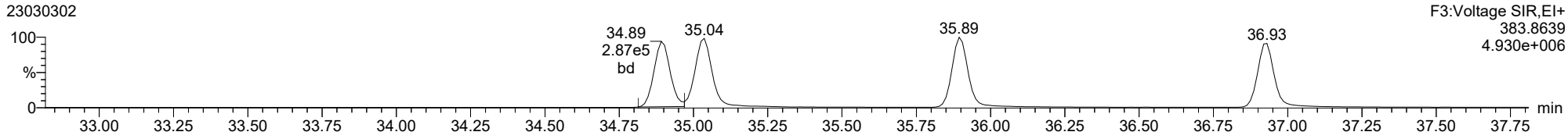

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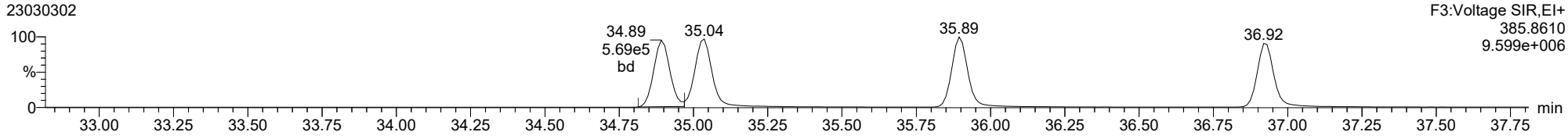

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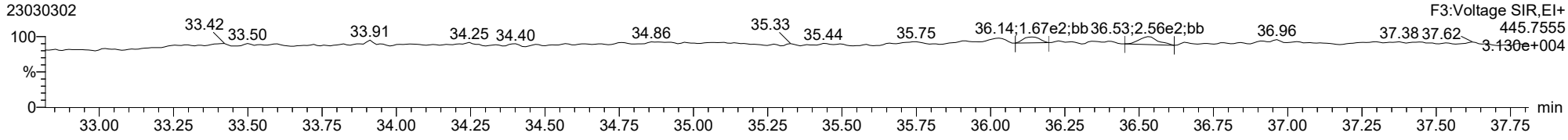

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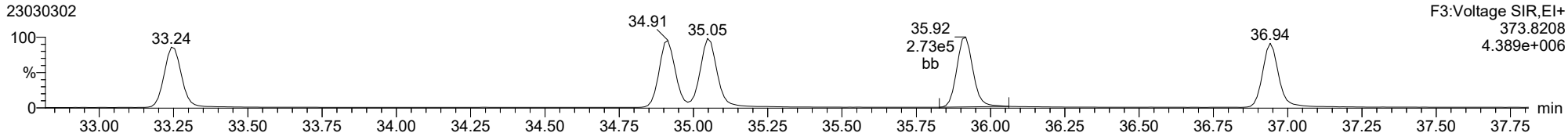
234678-HxCDF



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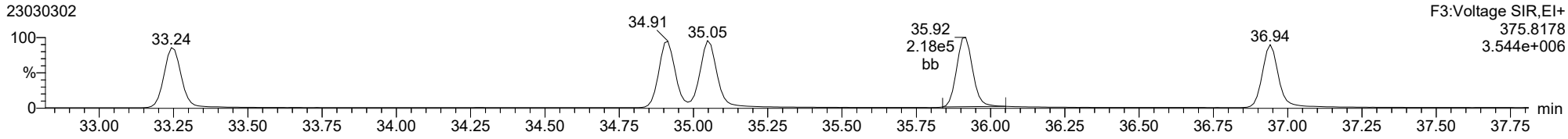

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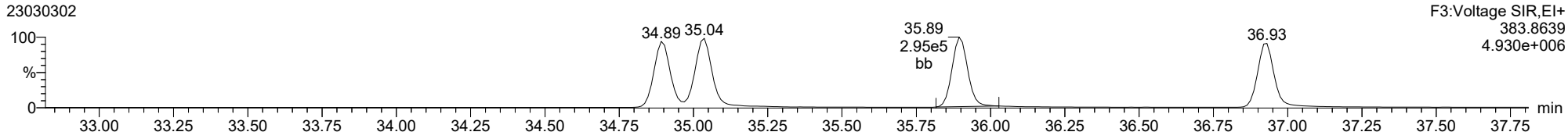

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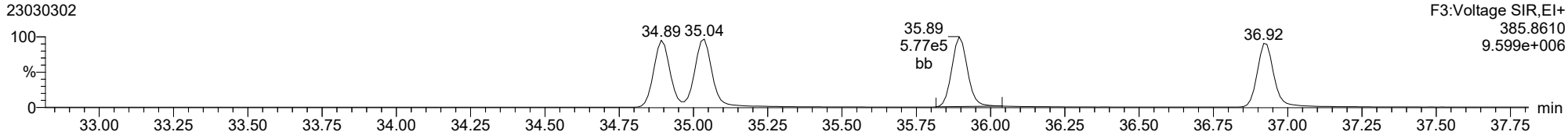
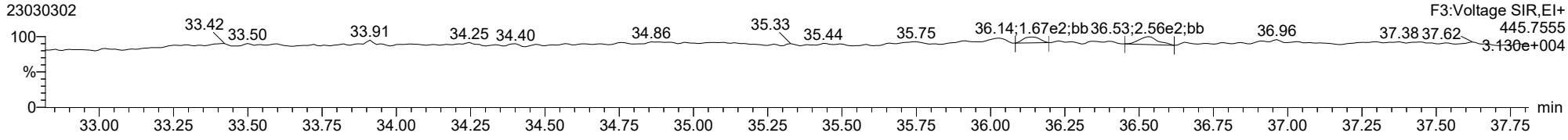


FUNCTION3 OCDPE



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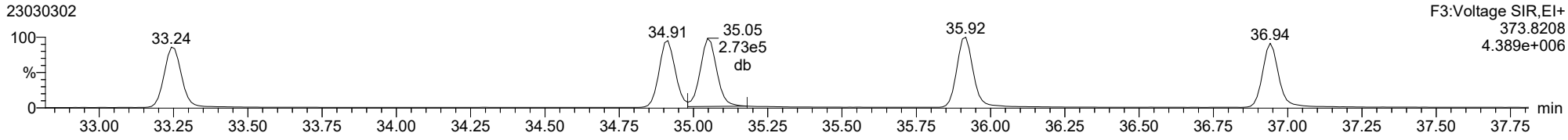

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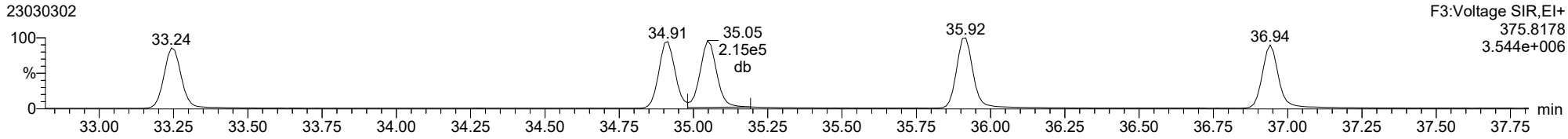

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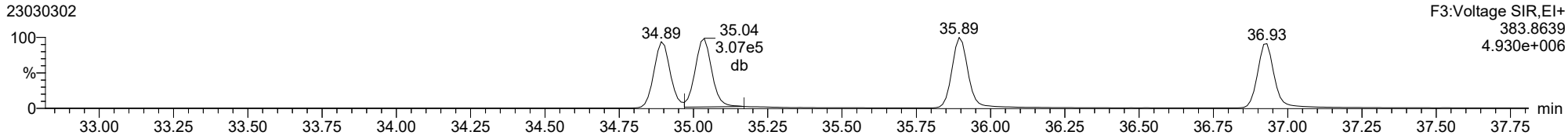

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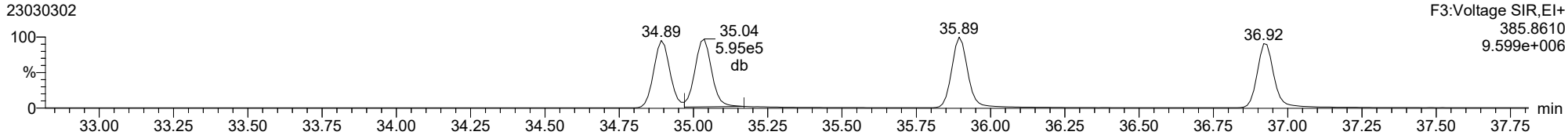

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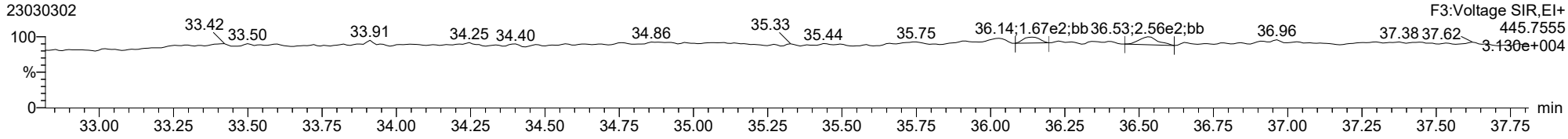

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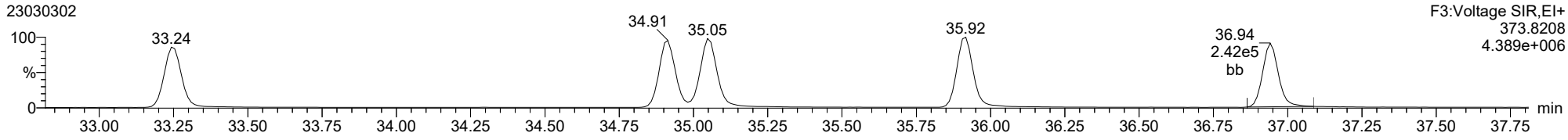

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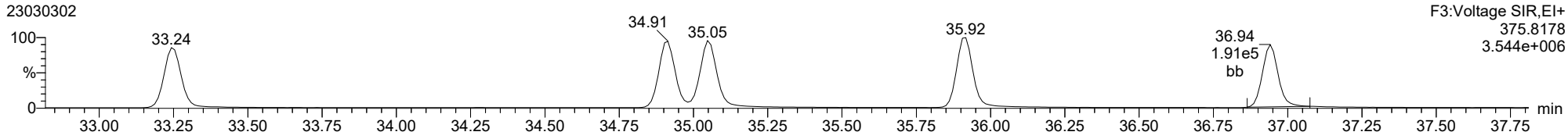

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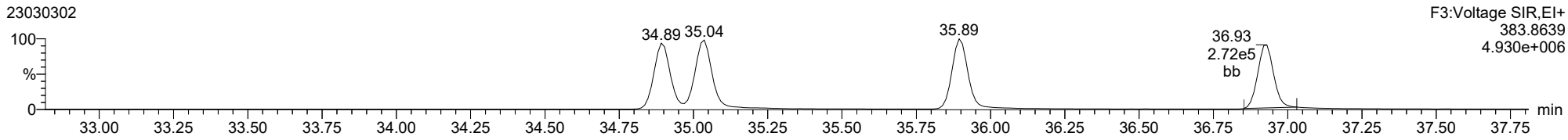

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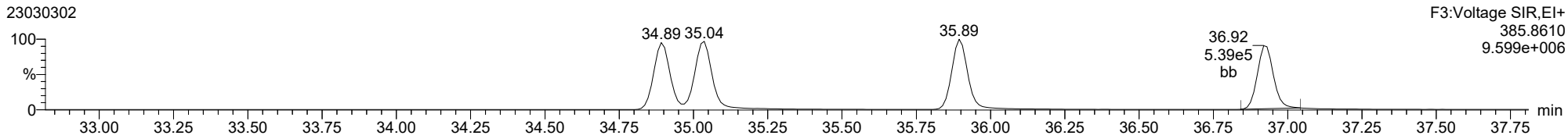

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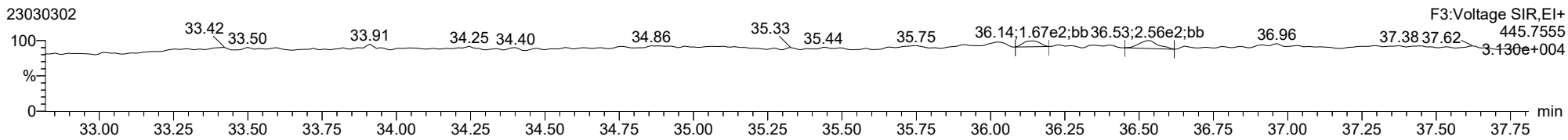

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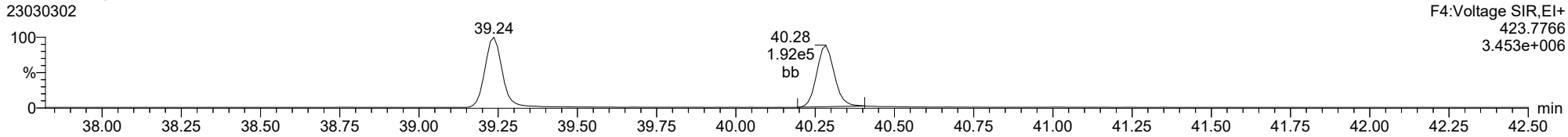

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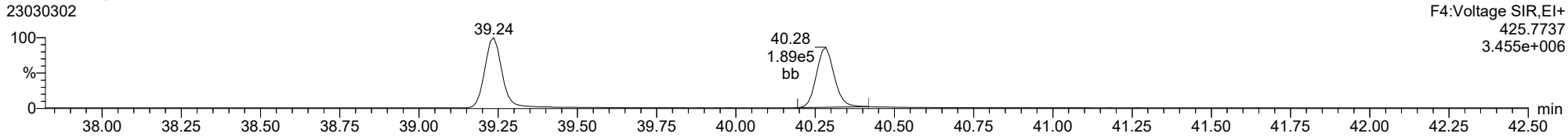

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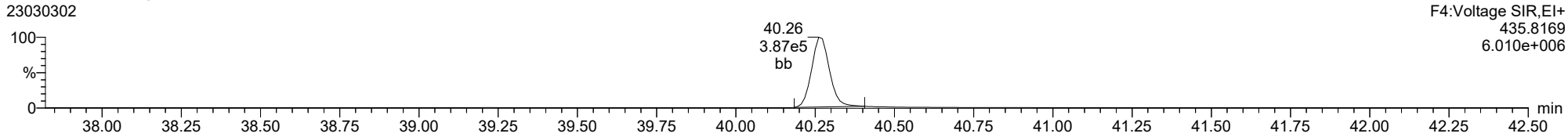

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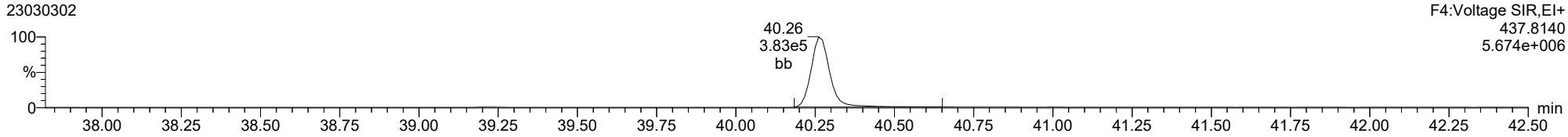

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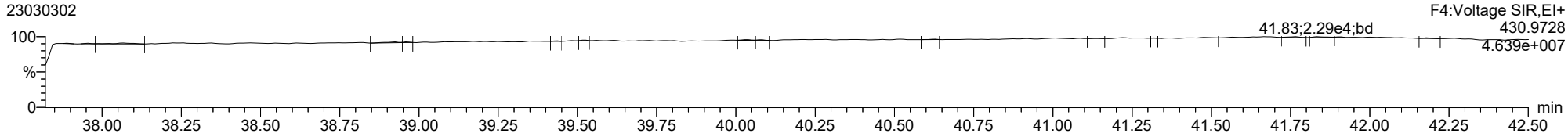

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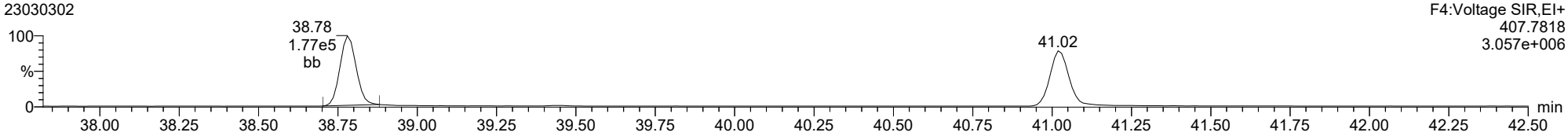

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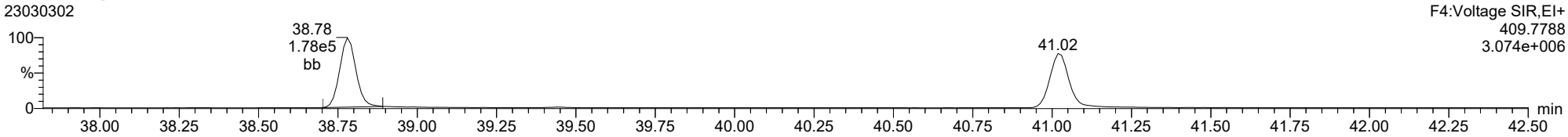

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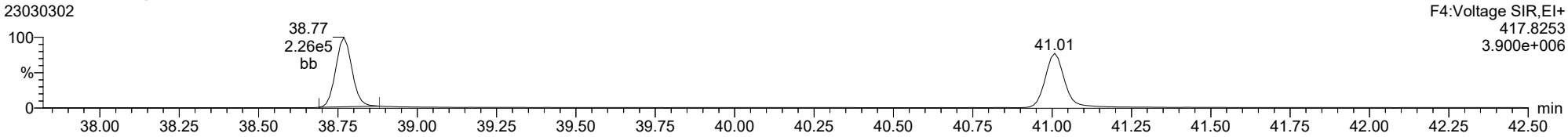

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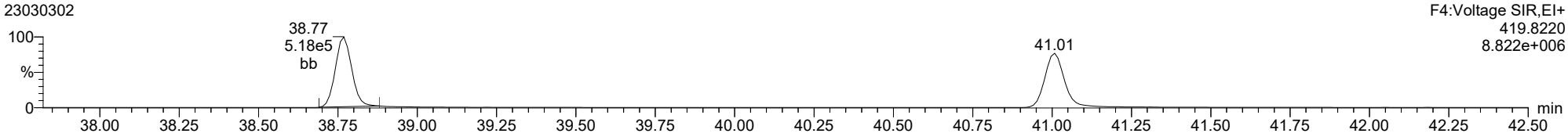

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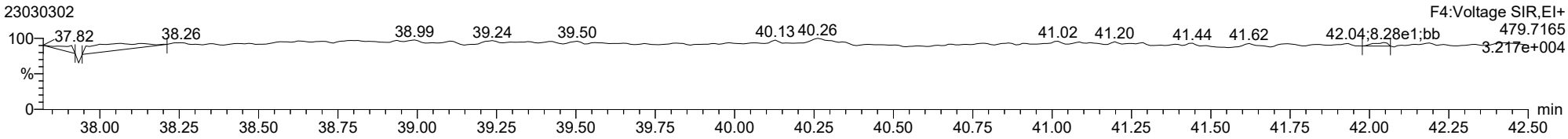

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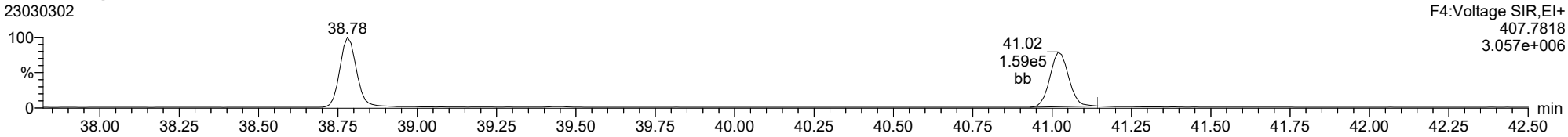

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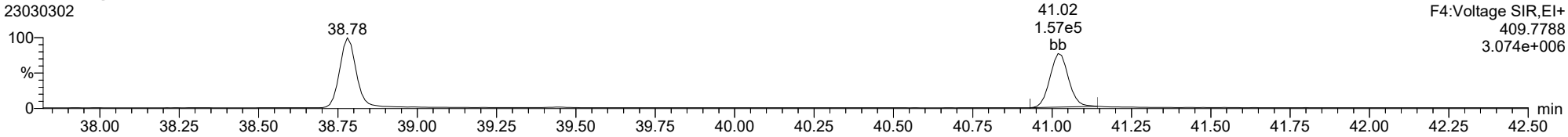

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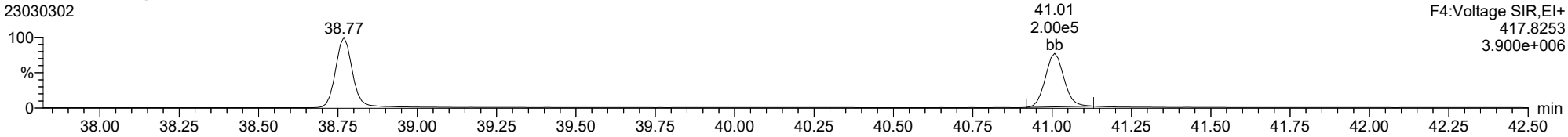

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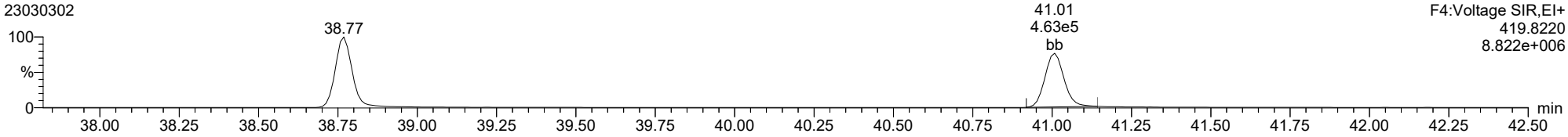

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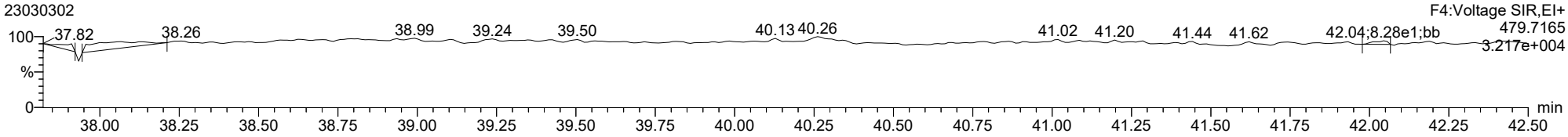

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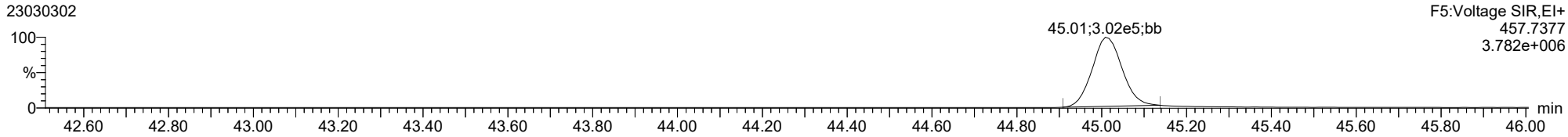

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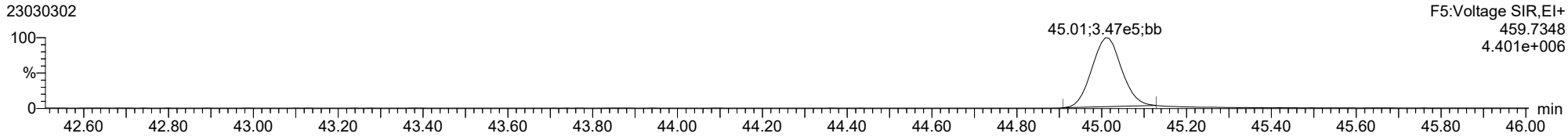

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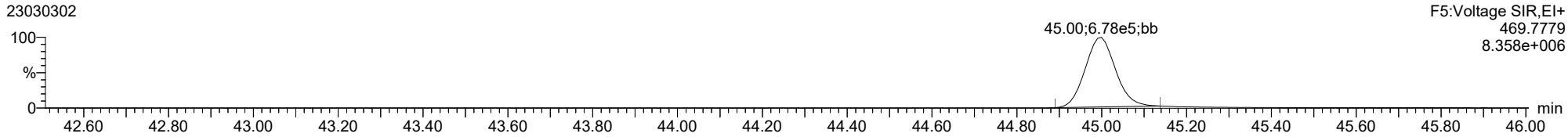

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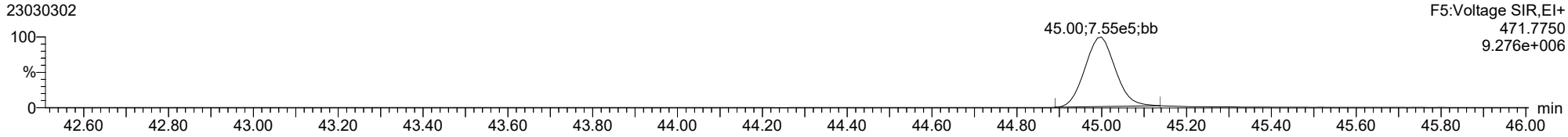

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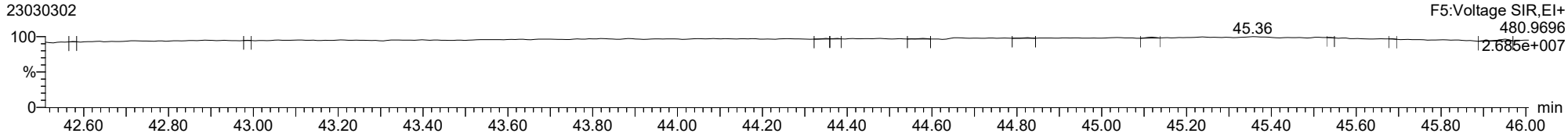

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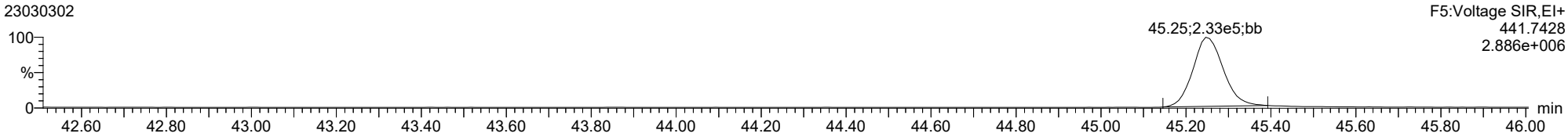

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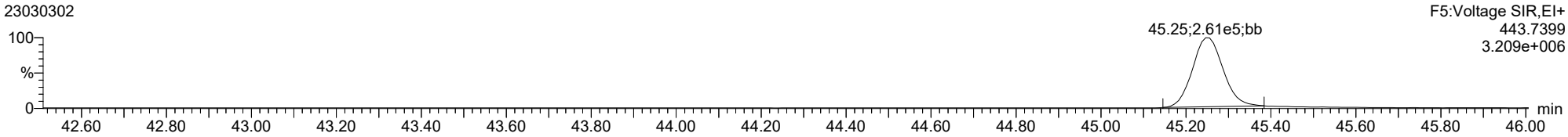

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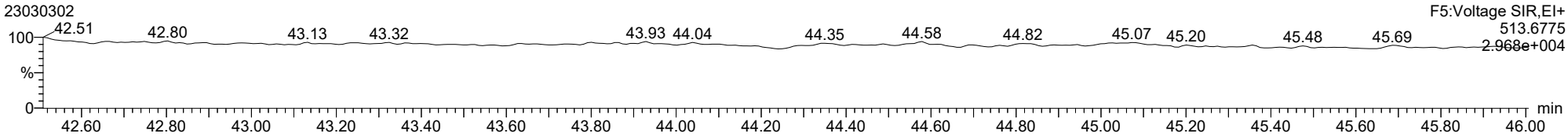

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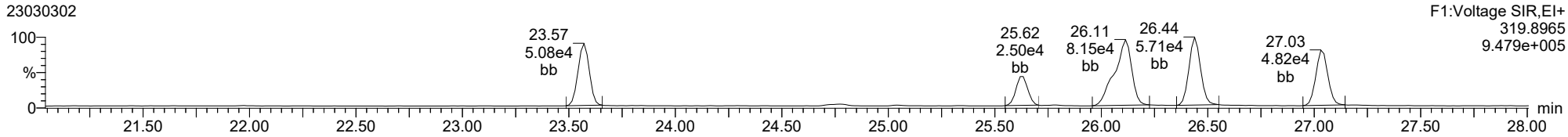
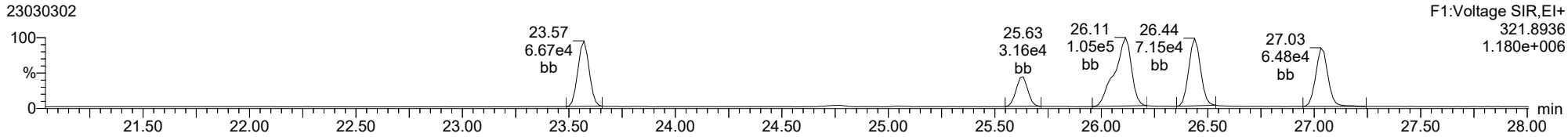
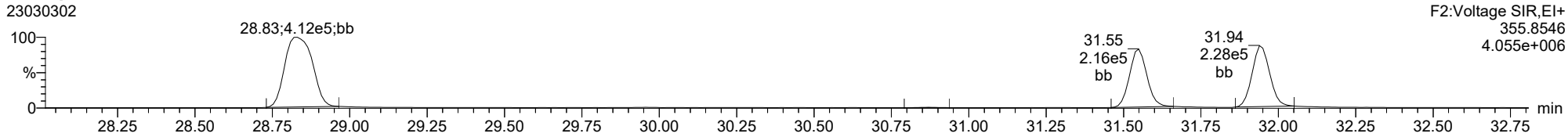
Total-tetradioxins



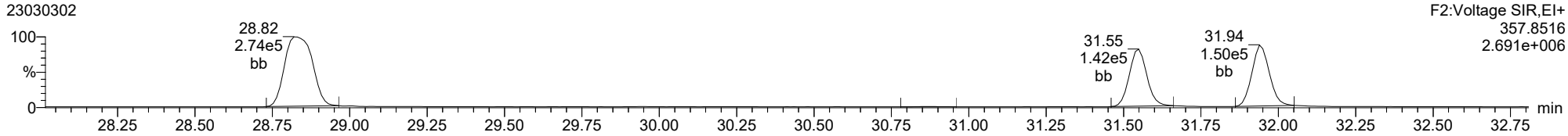
Total-tetradioxins



Total-pentadioxins



Total-pentadioxins



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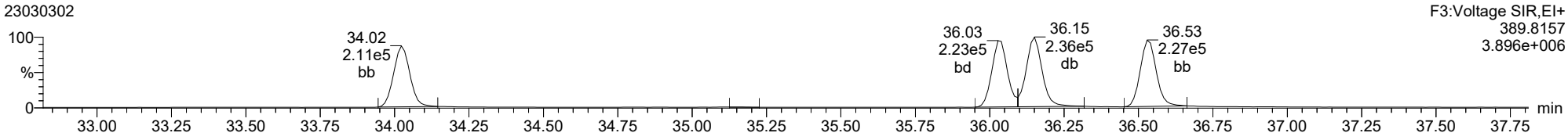

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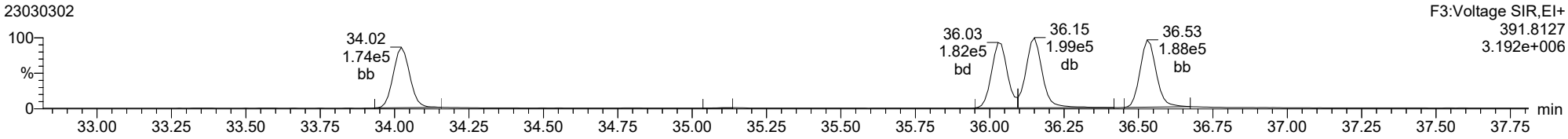

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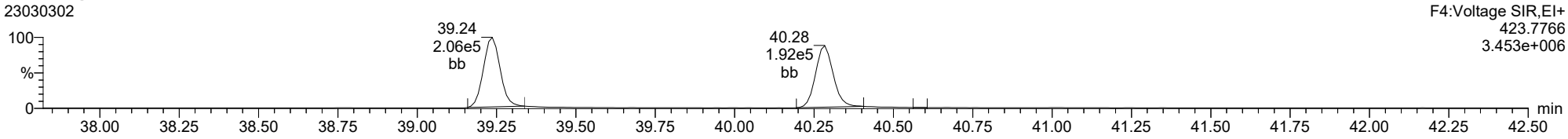

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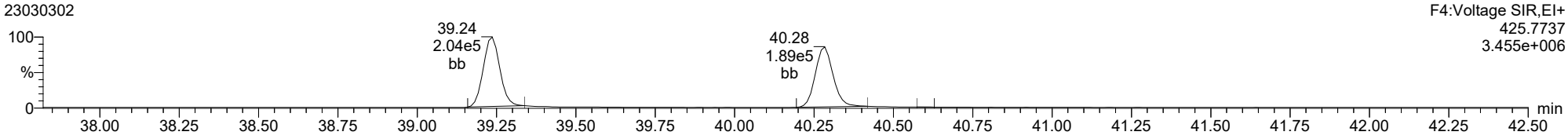

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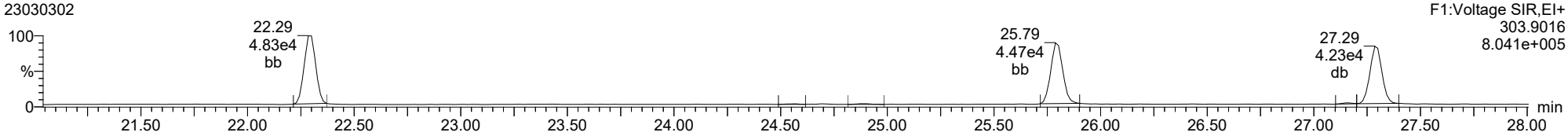
Total-tetrafurans



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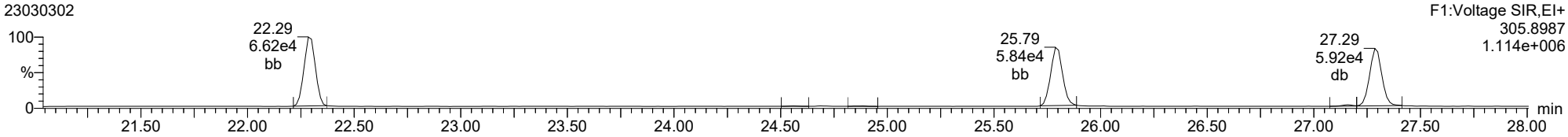

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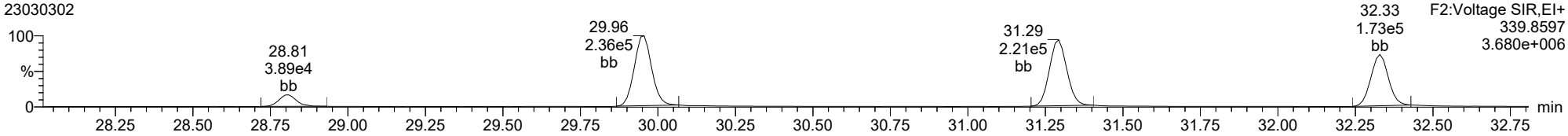

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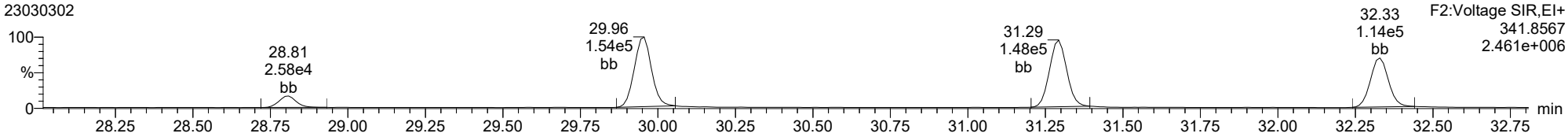

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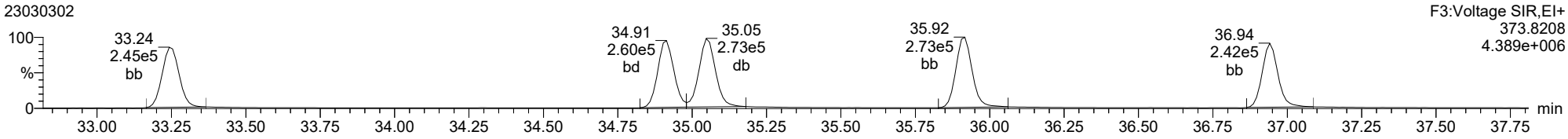

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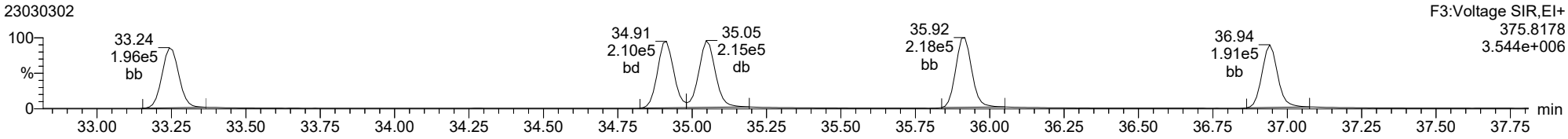

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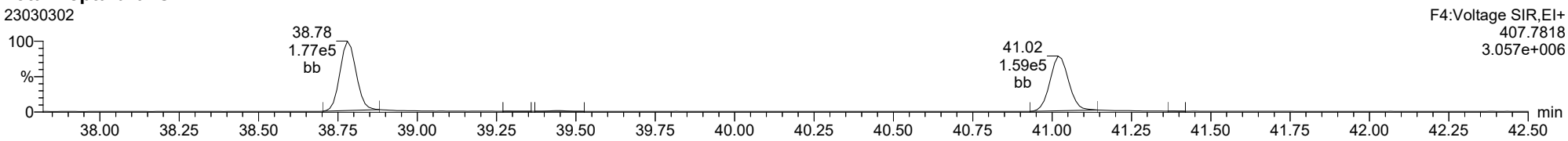

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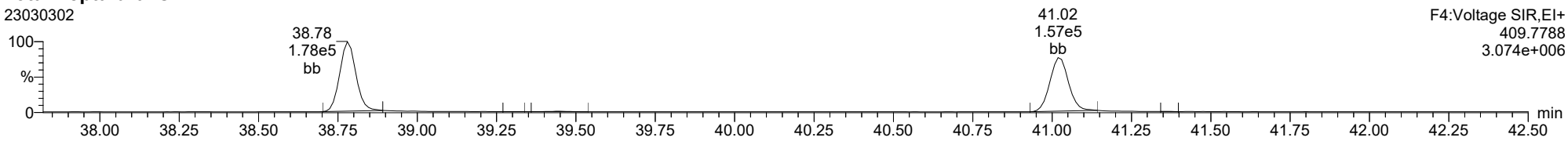

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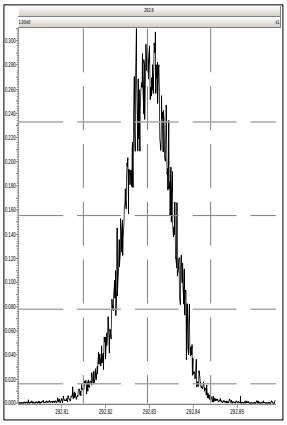

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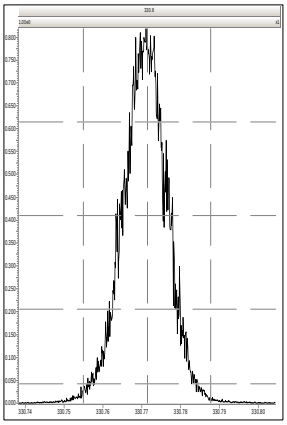

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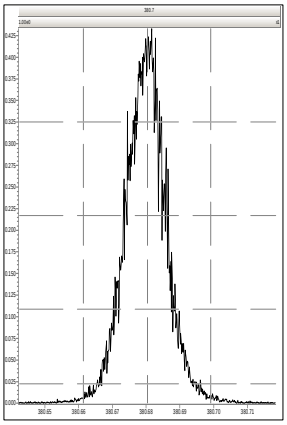

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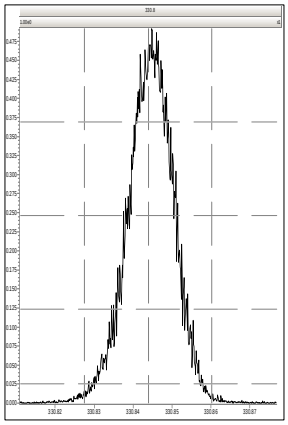
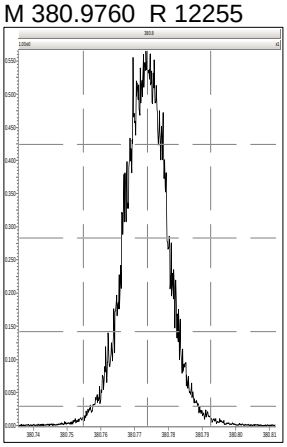
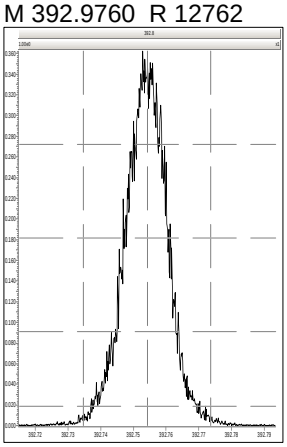


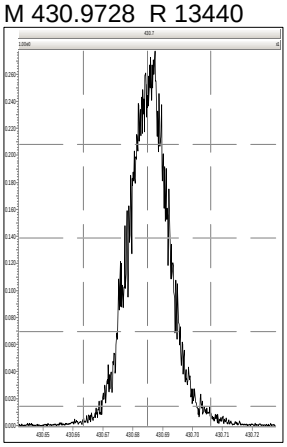
M 380.9760 R 12255



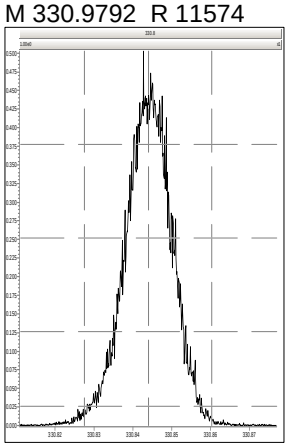
M 392.9760 R 12762



M 430.9728 R 13440



M 330.9792 R 11574



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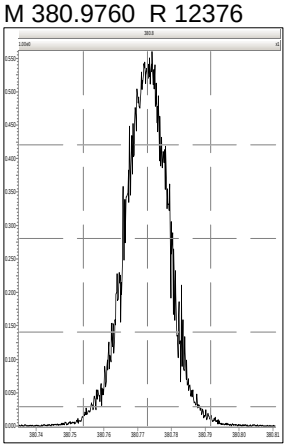
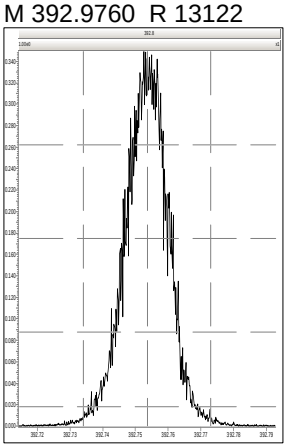
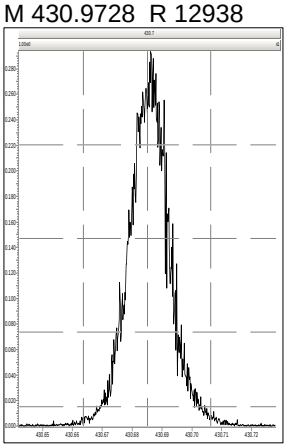


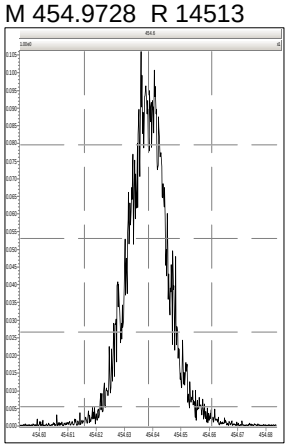
M 392.9760 R 13122



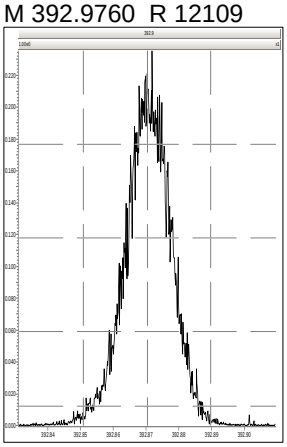
M 430.9728 R 12938



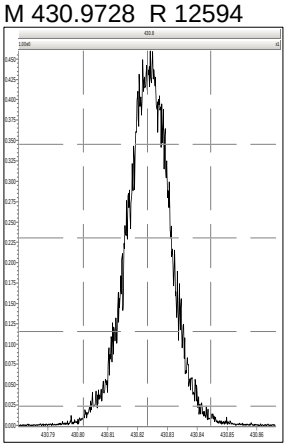
M 454.9728 R 14513



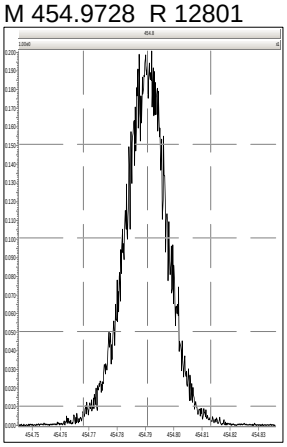
M 392.9760 R 12109



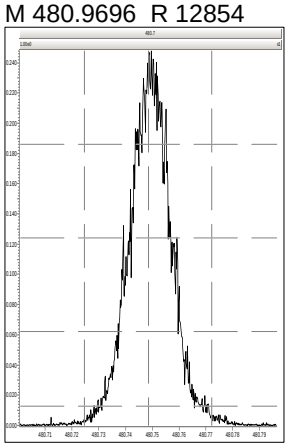
M 430.9728 R 12594



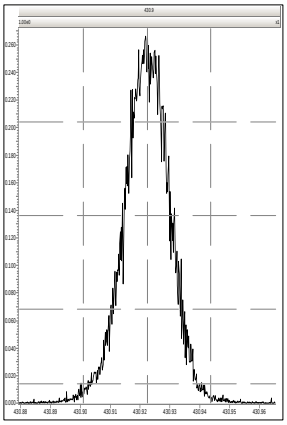
M 454.9728 R 12801



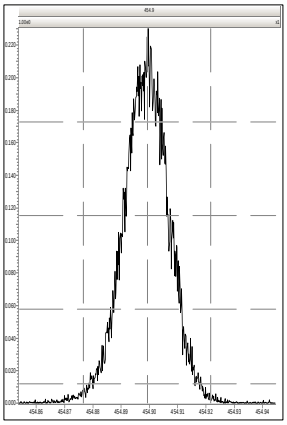
M 480.9696 R 12854



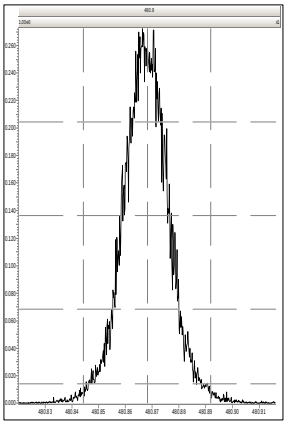
M 430.9728 R 12109



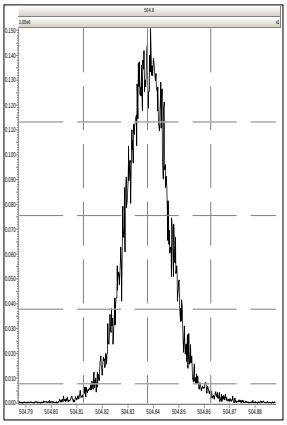
M 454.9728 R 12077



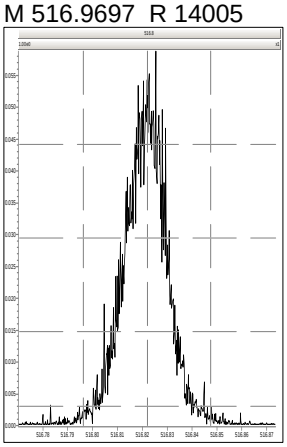
M 480.9696 R 11443

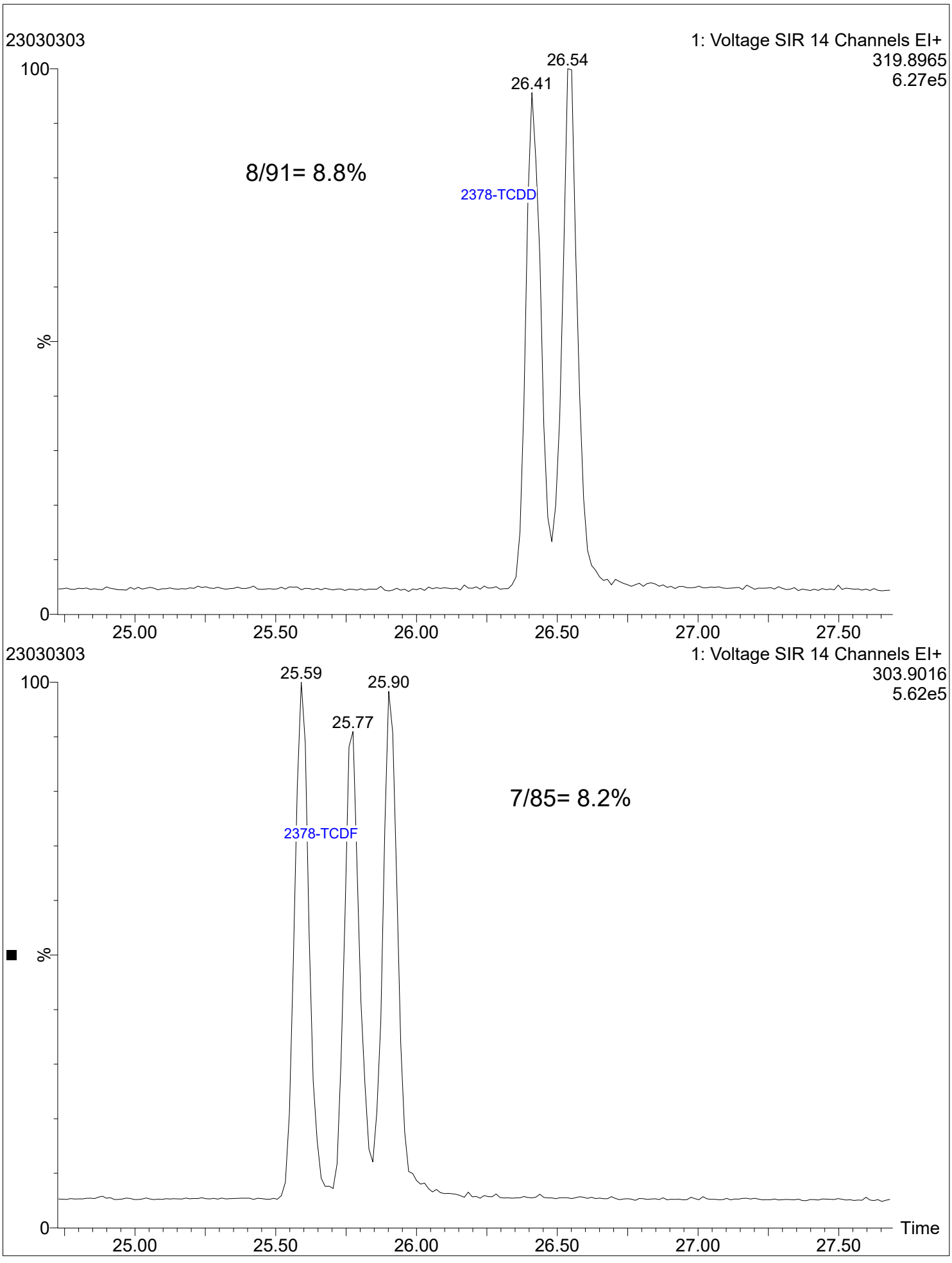


M 504.9696 R 12722



M 516.9697 R 14005




23030303
1: Voltage SIR 14 Channels EI+
319.8965
6.27e5
100
26.54
26.41
8/91= 8.8%
2378-TCDD
%
0
25.00
25.50
26.00
26.50
27.00
27.50
23030303
1: Voltage SIR 14 Channels EI+
303.9016
5.62e5
100
25.59
25.90
25.77
7/85= 8.2%
2378-TCDF
%
0
Time
25.00
25.50
26.00
26.50
27.00
27.50

Dataset: T:\Autospec\Processed Data Batch\230303ICIH.qld
Last Altered: Monday, March 06, 2023 10:57:27 Pacific Standard Time
Printed: Monday, March 06, 2023 11:33:58 Pacific Standard Time

Method: T:\Autospec\Methods\Dioxin230303.mdb 03 Mar 2023 14:58:50
Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 10:57:27

ID: CSLCW, Name: 23030304, Date: 03-Mar-2023, Time: 11:28:13, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF					0.702		0.770	1141	1568								
12378-PeCDF	29.922	1.000	2.331e3	1.631e3	0.679	1.429	1.550	717	1165	3.89e4	2.49e4	54.3	21.4	NO	bb	bd	0.520
23478-PeCDF	31.270	1.001	2.446e3	1.527e3	0.786	1.602	1.550	717	1165	3.60e4	2.25e4	50.1	19.4	NO	bb	bb	0.508
123478-HxCDF	34.891	1.001	2.740e3	2.578e3	1.166	1.063	1.240	675	706	4.36e4	3.63e4	64.6	51.5	NO	bd	bd	0.522
234678-HxCDF	35.894	1.001	2.363e3	1.967e3	1.140	1.201	1.240	675	706	3.52e4	3.17e4	52.2	44.9	NO	bb	bb	0.459
123678-HxCDF	35.025	1.000	2.955e3	2.593e3	1.091	1.140	1.240	675	706	3.97e4	3.71e4	58.8	52.6	NO	db	dd	0.495
123789-HxCDF	36.919	1.000	2.292e3	1.751e3	1.137	1.309	1.240	675	706	3.51e4	2.45e4	52.0	34.7	NO	bd	bb	0.523
1234678-HpCDF	38.769	1.001	1.264e3	1.356e3	1.003	0.932	1.050	1176	1150	2.17e4	2.11e4	18.4	18.3	NO	bd	bb	0.466
1234789-HpCDF	40.997	1.000	1.144e3	1.036e3	0.953	1.105	1.050	1176	1150	1.78e4	1.51e4	15.1	13.1	NO	bb	bd	0.465
OCDF	45.228	1.006	2.105e3	2.214e3	0.778	0.951	0.890	762	984	2.31e4	2.16e4	30.2	22.0	NO	bb	bb	1.044
2378-TCDD					1.149		0.770	1186	741								
12378-PeCDD	31.527	1.001	2.628e3	1.506e3	1.022	1.745	1.550	935	615	3.66e4	1.58e4	39.1	25.7	NO	bb	bb	0.540
123478-HxCDD	36.016	1.001	2.113e3	1.865e3	0.996	1.133	1.240	725	812	3.30e4	2.93e4	45.6	36.1	NO	dd	bd	0.542
123678-HxCDD	36.128	1.001	2.428e3	1.876e3	1.001	1.294	1.240	725	812	3.70e4	2.39e4	51.1	29.5	NO	db	db	0.479
123789-HxCDD	36.507	1.011	2.154e3	1.651e3	0.907	1.304	1.240	725	812	3.30e4	2.34e4	45.5	28.9	NO	bd	bb	0.513
1234678-HpCDD	40.261	1.000	1.634e3	1.397e3	1.039	1.170	1.050	985	1205	2.31e4	2.24e4	23.5	18.6	NO	MM	bb	0.531
OCDD					0.920		0.890	1090	941								
13C-2378-TCDF	25.746	1.007	5.730e5	7.592e5	1.620	0.755	0.770	2498	2006	8.42e6	1.11e7	3371.3	5556.4	NO	bb	bb	100.702
13C-12378-PeCDF	29.911	1.169	6.805e5	4.409e5	1.240	1.543	1.550	2678	2220	9.20e6	6.10e6	3433.8	2749.3	NO	bb	bd	110.727
13C-23478-PeCDF	31.248	1.222	6.001e5	3.956e5	1.118	1.517	1.550	2678	2220	8.66e6	5.74e6	3235.2	2585.6	NO	bb	bb	109.107
13C-123478-HxCDF	34.869	0.955	2.965e5	5.770e5	1.168	0.514	0.510	1558	3112	4.38e6	8.54e6	2813.2	2745.5	NO	bd	bd	98.607
13C-123678-HxCDF	35.014	0.959	3.446e5	6.820e5	1.386	0.505	0.510	1558	3112	4.56e6	9.02e6	2927.1	2898.6	NO	db	dd	97.648
13C-234678-HxCDF	35.872	0.983	2.821e5	5.460e5	1.129	0.517	0.510	1558	3112	4.13e6	8.00e6	2652.6	2572.0	NO	bb	bb	96.703
13C-123789-HxCDF	36.908	1.011	2.282e5	4.511e5	0.932	0.506	0.510	1558	3112	3.31e6	6.47e6	2122.2	2079.8	NO	bb	bb	96.146
13C-1234678-HpCDF	38.746	1.062	1.794e5	3.814e5	0.895	0.470	0.440	2435	3572	2.60e6	5.93e6	1069.0	1659.1	NO	bd	bb	82.620
13C-1234789-HpCDF	40.986	1.123	1.404e5	3.516e5	0.770	0.399	0.440	2435	3572	1.98e6	4.51e6	813.8	1262.1	NO	bb	bb	84.288
13C-1234-TCDD	25.576	0.000	3.640e5	4.524e5	1.000	0.805	0.770	1931	1352	5.55e6	6.91e6	2875.2	5114.0	NO	bb	bb	100.000
13C-2378-TCDD	26.396	1.032	4.012e5	4.998e5	1.152	0.803	0.770	1931	1352	5.75e6	7.10e6	2979.4	5249.9	NO	bb	bb	95.760
13C-12378-PeCDD	31.504	1.232	4.613e5	2.880e5	0.829	1.602	1.550	1401	1533	6.70e6	4.14e6	4781.1	2700.1	NO	bb	bb	110.725
13C-123478-HxCDD	35.994	0.986	4.133e5	3.236e5	0.995	1.277	1.240	1744	1461	6.55e6	5.10e6	3756.0	3493.2	NO	bd	bd	97.670
13C-123678-HxCDD	36.106	0.989	5.195e5	3.785e5	1.157	1.372	1.240	1744	1461	6.84e6	5.29e6	3920.0	3622.3	NO	db	db	102.381
13C-1234678-HpCDD	40.250	1.103	2.785e5	2.707e5	0.840	1.029	1.050	1497	2275	3.82e6	3.65e6	2553.8	1605.5	NO	bb	bd	86.201
13C-OCDD	44.972	1.232	5.210e5	5.429e5	0.767	0.960	0.890	2989	1436	5.87e6	6.48e6	1964.2	4513.5	NO	bd	bb	182.810
13C-123789-HxCDD	36.496	0.000	4.181e5	3.402e5	1.000	1.229	1.240	1744	1461	6.11e6	4.85e6	3503.9	3317.8	NO	bb	bb	100.000
37CL-2378-TCDD	26.410	1.033	1.287e3		1.288			1959		1.53e4		7.8			db		0.122

Dataset: T:\Autospec\Processed Data Batch\230303ICIH.qld
Last Altered: Monday, March 06, 2023 10:57:27 Pacific Standard Time
Printed: Monday, March 06, 2023 11:33:58 Pacific Standard Time

ID: CSLCW, Name: 23030304, Date: 03-Mar-2023, Time: 11:28:13, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF					0.802		0.770	1141	1568								
1289-TCDF					0.678		0.770	1141	1568								
13468-PECDF					1.246		1.550	669	893								
12389-PECDF					0.496		1.550	717	1165								
123468-HXCDF					1.169		1.240	675	706								
1368-TCDD					1.015		0.770	1186	741								
1289-TCDD					0.909		0.770	1186	741								
12479-PECDD					2.301		1.550	935	615								
12389-PECDD					1.184		1.550	935	615								
124679-HXCDD					1.115		1.240	725	812								
1234679-HPCDD					1.137		1.050	985	1205								
Total-tetrafurans			0.000e0		0.727			1141		0.00e0							
Total-penta1			0.000e0					669		0.00e0							
Total-pentafurans			4.777e3		0.654			717		7.49e4							1.028
Total-hexafurans			1.035e4		1.141			675		1.54e5							2.000
Total-heptafurans			2.408e3		0.978			1176		3.94e4							0.931
Total-Furans			1.971e4		0.922			1141		2.93e5							5.016
Total-tetradioxins			0.000e0		1.024			1186		0.00e0							
Total-pentadioxins			2.628e3		1.502			935		3.66e4							0.540
Total-hexadioxins			6.694e3		1.005			725		1.03e5							1.534
Total-heptadioxins			1.634e3		1.088			985		2.31e4							0.531
Total-Dioxins			1.096e4		1.130			1186		1.63e5							2.605
Total-TEQ			3.067e4					1186		4.55e5							7.621
FUNCTION1 PFK			3.116e6					620464		1.62e6							
FUNCTION2 PFK			1.698e6					301200		2.24e6							0.000
FUNCTION3 PFK			5.380e7					450736		2.93e7							0.000
FUNCTION4 PFK			1.391e7					291095		1.60e7							
FUNCTION5 PFK			7.208e4					238350		2.59e6							
FUNCTION1 HXCD...			4.809e2					559		5.84e3							0.000
FUNCTION1 HPCD...																	
FUNCTION2 HPCD...			8.084e2					933		1.50e4							0.000
FUNCTION3 OCDPE			0.000e0					494		0.00e0							
FUNCTION4 NCDPE			6.931e2					845		1.26e4							0.000
FUNCTION5 DCDPE			7.511e2					821		1.86e4							0.000

Method: T:\Autospec\Methods\Dioxin230303.mdb 03 Mar 2023 14:58:50
Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 10:57:27

ID: CSLCW, Name: 23030304, Date: 03-Mar-2023, Time: 11:28:13, Conditions: AUTOSPEC01, User: pk

TF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

PP

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

PF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	23478-PeCDF	31.27	2.446e3	1.527e3	0.786	1.60	1.55	50.1	YES	NO	bb	bb	0.508
2	12378-PeCDF	29.92	2.331e3	1.631e3	0.679	1.43	1.55	54.3	YES	NO	bb	bd	0.520

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDF	36.92	2.292e3	1.751e3	1.137	1.31	1.24	52.0	YES	NO	bd	bb	0.523
2	234678-HxCDF	35.89	2.363e3	1.967e3	1.140	1.20	1.24	52.2	YES	NO	bb	bb	0.459
3	123678-HxCDF	35.03	2.955e3	2.593e3	1.091	1.14	1.24	58.8	YES	NO	db	dd	0.495
4	123478-HxCDF	34.89	2.740e3	2.578e3	1.166	1.06	1.24	64.6	YES	NO	bd	bd	0.522

HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDF	38.77	1.264e3	1.356e3	1.003	0.93	1.05	18.4	YES	NO	bd	bb	0.466
2	1234789-HpCDF	41.00	1.144e3	1.036e3	0.953	1.10	1.05	15.1	YES	NO	bb	bd	0.465

ID: CSLCW, Name: 23030304, Date: 03-Mar-2023, Time: 11:28:13, Conditions: AUTOSPEC01, User: pk

Furans,TF,PP,PF,HF,HPF,OF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-Furans	21.68	7.033e1	1.021e2	0.922	0.69	0.77	1.5	NO	NO	bb	bb	0.014
2	123789-HxCDF	36.92	2.292e3	1.751e3	1.137	1.31	1.24	52.0	YES	NO	bd	bb	0.523
3	234678-HxCDF	35.89	2.363e3	1.967e3	1.140	1.20	1.24	52.2	YES	NO	bb	bb	0.459
4	123678-HxCDF	35.03	2.955e3	2.593e3	1.091	1.14	1.24	58.8	YES	NO	db	dd	0.495
5	123478-HxCDF	34.89	2.740e3	2.578e3	1.166	1.06	1.24	64.6	YES	NO	bd	bd	0.522
6	23478-PeCDF	31.27	2.446e3	1.527e3	0.786	1.60	1.55	50.1	YES	NO	bb	bb	0.508
7	12378-PeCDF	29.92	2.331e3	1.631e3	0.679	1.43	1.55	54.3	YES	NO	bb	bd	0.520
8	1234678-HpCDF	38.77	1.264e3	1.356e3	1.003	0.93	1.05	18.4	YES	NO	bd	bb	0.466
9	1234789-HpCDF	41.00	1.144e3	1.036e3	0.953	1.10	1.05	15.1	YES	NO	bb	bd	0.465
10	OCDF	45.23	2.105e3	2.214e3	0.778	0.95	0.89	30.2	YES	NO	bb	bb	1.044

TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12378-PeCDD	31.53	2.628e3	1.506e3	1.022	1.75	1.55	39.1	YES	NO	bb	bb	0.540

HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDD	36.51	2.154e3	1.651e3	0.907	1.30	1.24	45.5	YES	NO	bd	bb	0.513
2	123678-HxCDD	36.13	2.428e3	1.876e3	1.001	1.29	1.24	51.1	YES	NO	db	db	0.479
3	123478-HxCDD	36.02	2.113e3	1.865e3	0.996	1.13	1.24	45.6	YES	NO	dd	bd	0.542

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	40.26	1.634e3	1.397e3	1.039	1.17	1.05	23.5	YES	NO	MM	bb	0.531

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Dioxins,TD,PD,HD,HPD,OD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12378-PeCDD	31.53	2.628e3	1.506e3	1.022	1.75	1.55	39.1	YES	NO	bb	bb	0.540
2	123789-HxCDD	36.51	2.154e3	1.651e3	0.907	1.30	1.24	45.5	YES	NO	bd	bb	0.513
3	123678-HxCDD	36.13	2.428e3	1.876e3	1.001	1.29	1.24	51.1	YES	NO	db	db	0.479
4	123478-HxCDD	36.02	2.113e3	1.865e3	0.996	1.13	1.24	45.6	YES	NO	dd	bd	0.542
5	1234678-HpCDD	40.26	1.634e3	1.397e3	1.039	1.17	1.05	23.5	YES	NO	MM	bb	0.531

TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-Furans	21.68	7.033e1	1.021e2	0.922	0.69	0.77	1.5	NO	NO	bb	bb	0.014
2	123789-HxCDF	36.92	2.292e3	1.751e3	1.137	1.31	1.24	52.0	YES	NO	bd	bb	0.523
3	234678-HxCDF	35.89	2.363e3	1.967e3	1.140	1.20	1.24	52.2	YES	NO	bb	bb	0.459
4	123678-HxCDF	35.03	2.955e3	2.593e3	1.091	1.14	1.24	58.8	YES	NO	db	dd	0.495
5	123478-HxCDF	34.89	2.740e3	2.578e3	1.166	1.06	1.24	64.6	YES	NO	bd	bd	0.522
6	23478-PeCDF	31.27	2.446e3	1.527e3	0.786	1.60	1.55	50.1	YES	NO	bb	bb	0.508
7	12378-PeCDF	29.92	2.331e3	1.631e3	0.679	1.43	1.55	54.3	YES	NO	bb	bd	0.520
8	1234678-HpCDF	38.77	1.264e3	1.356e3	1.003	0.93	1.05	18.4	YES	NO	bd	bb	0.466
9	1234789-HpCDF	41.00	1.144e3	1.036e3	0.953	1.10	1.05	15.1	YES	NO	bb	bd	0.465
10	OCDF	45.23	2.105e3	2.214e3	0.778	0.95	0.89	30.2	YES	NO	bb	bb	1.044
11	12378-PeCDD	31.53	2.628e3	1.506e3	1.022	1.75	1.55	39.1	YES	NO	bb	bb	0.540
12	123789-HxCDD	36.51	2.154e3	1.651e3	0.907	1.30	1.24	45.5	YES	NO	bd	bb	0.513
13	123678-HxCDD	36.13	2.428e3	1.876e3	1.001	1.29	1.24	51.1	YES	NO	db	db	0.479
14	123478-HxCDD	36.02	2.113e3	1.865e3	0.996	1.13	1.24	45.6	YES	NO	dd	bd	0.542
15	1234678-HpCDD	40.26	1.634e3	1.397e3	1.039	1.17	1.05	23.5	YES	NO	MM	bb	0.531

PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	24.18	3.116e6					2.6	NO		bb		

PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	30.19	1.560e6					3.1	YES		bb		0.000
2	FUNCTION2 PFK	28.13	1.376e5					4.3	YES		bb		0.000

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PFK3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	37.12	2.560e6					15.7	YES		db		0.000
2	FUNCTION3 PFK	36.37	7.058e6					24.4	YES		dd		0.000
3	FUNCTION3 PFK	36.11	4.418e7					24.8	YES		bd		0.000

PFK4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	42.43	1.404e5					1.6	NO		bb		
2	FUNCTION4 PFK	37.89	1.377e7					53.2	YES		bb		

PFK5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	45.15	7.152e3					1.1	NO		bb		
2	FUNCTION5 PFK	45.07	1.178e3					0.5	NO		bb		
3	FUNCTION5 PFK	44.98	1.177e3					0.5	NO		bb		
4	FUNCTION5 PFK	44.19	7.772e3					0.8	NO		bb		
5	FUNCTION5 PFK	43.72	7.921e3					1.3	NO		bb		
6	FUNCTION5 PFK	43.60	4.474e3					0.7	NO		bb		
7	FUNCTION5 PFK	43.17	6.636e3					1.2	NO		bb		
8	FUNCTION5 PFK	43.01	5.001e3					0.7	NO		bb		
9	FUNCTION5 PFK	42.76	1.253e4					1.4	NO		bb		
10	FUNCTION5 PFK	45.91	8.220e3					0.4	NO		bb		
11	FUNCTION5 PFK	45.75	6.523e3					1.4	NO		bb		
12	FUNCTION5 PFK	45.25	3.501e3					0.7	NO		bb		

ETHERS1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	27.60	9.542e1					2.4	NO		bb		0.000
2	FUNCTION1 HXCD...	26.42	7.837e1					1.9	NO		bb		0.000
3	FUNCTION1 HXCD...	25.58	1.709e2					3.5	YES		bb		0.000
4	FUNCTION1 HXCD...	23.40	1.362e2					2.7	NO		bb		0.000

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ETHERS2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	32.36	1.308e2					1.8	NO		bb		0.000
2	FUNCTION2 HPCD...	31.75	8.377e1					1.7	NO		bb		0.000
3	FUNCTION2 HPCD...	31.30	1.170e2					2.2	NO		db		0.000
4	FUNCTION2 HPCD...	31.24	1.138e2					2.6	NO		bd		0.000
5	FUNCTION2 HPCD...	30.92	1.786e2					3.2	YES		bb		0.000
6	FUNCTION2 HPCD...	30.04	8.034e1					1.7	NO		bb		0.000
7	FUNCTION2 HPCD...	29.47	1.041e2					2.9	NO		bb		0.000

ETHERS4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

ETHERS5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	42.04	9.826e1					2.2	NO		bb		0.000
2	FUNCTION4 NCDPE	41.83	1.085e2					2.1	NO		bb		0.000
3	FUNCTION4 NCDPE	41.67	8.318e1					2.8	NO		db		0.000
4	FUNCTION4 NCDPE	41.58	1.047e2					2.5	NO		bd		0.000
5	FUNCTION4 NCDPE	41.32	1.741e2					2.4	NO		bb		0.000
6	FUNCTION4 NCDPE	41.15	1.244e2					2.8	NO		bb		0.000

ETHERS6

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 DCDPE	43.53	7.557e1					1.5	NO		bb		0.000
2	FUNCTION5 DCDPE	43.39	1.767e2					2.9	NO		bb		0.000
3	FUNCTION5 DCDPE	43.31	8.303e1					2.9	NO		db		0.000
4	FUNCTION5 DCDPE	43.27	1.217e2					4.5	YES		bd		0.000
5	FUNCTION5 DCDPE	43.04	1.550e2					3.9	YES		bb		0.000
6	FUNCTION5 DCDPE	42.73	1.390e2					7.0	YES		bb		0.000

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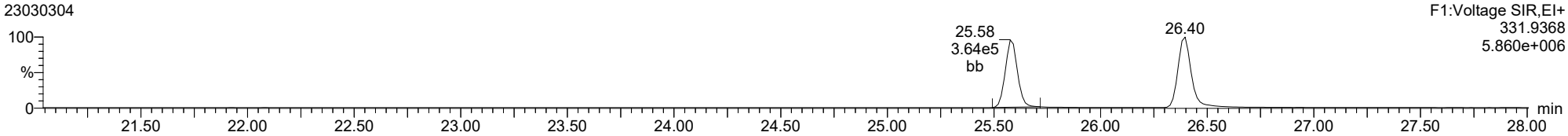

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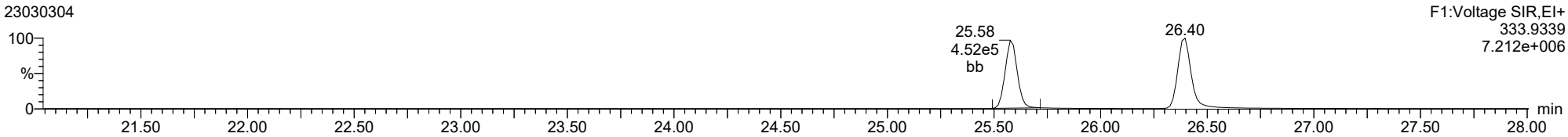

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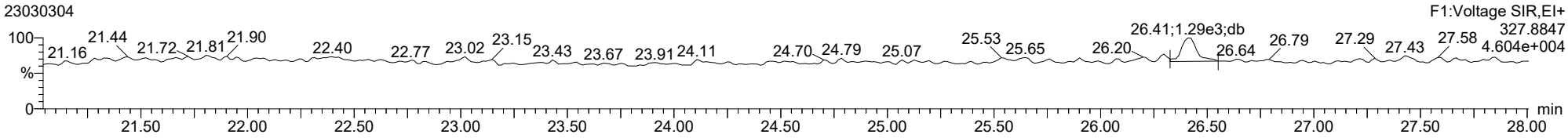

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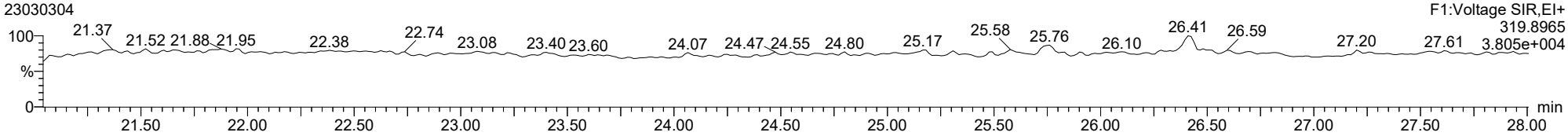

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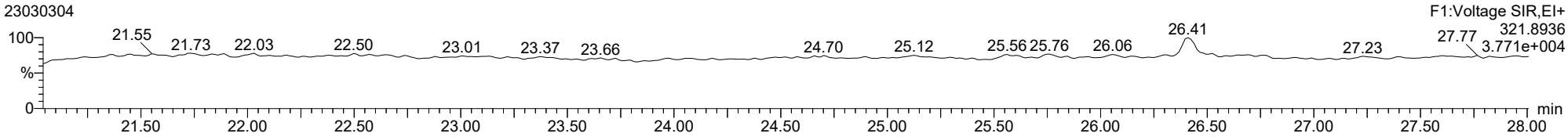

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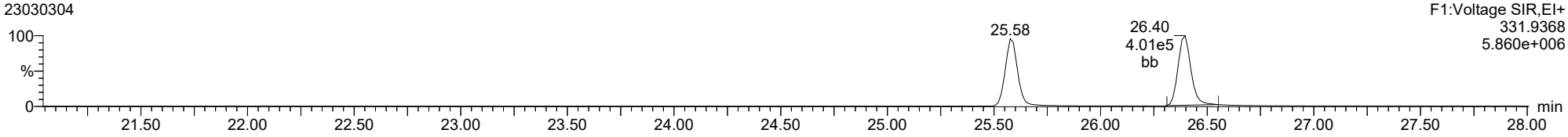

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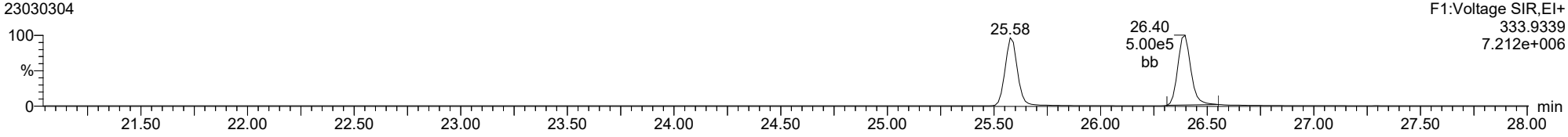
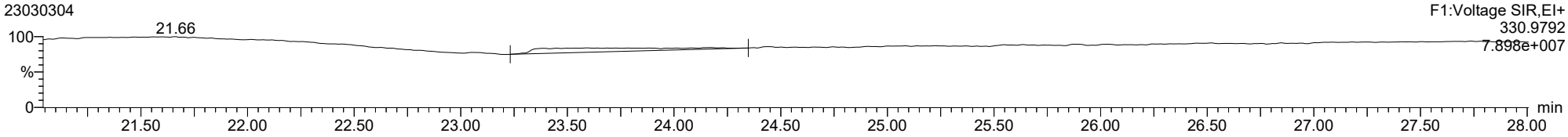


FUNCTION1 PFK



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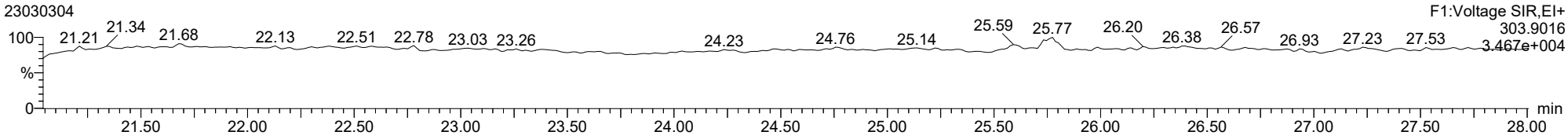

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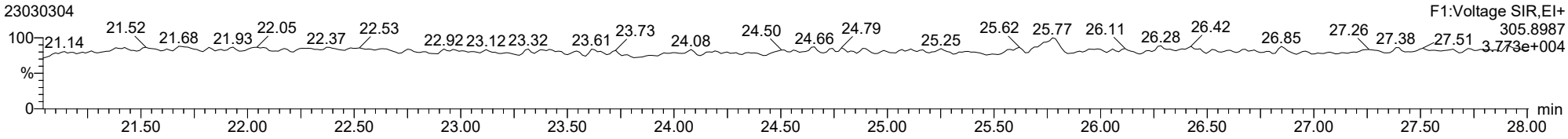

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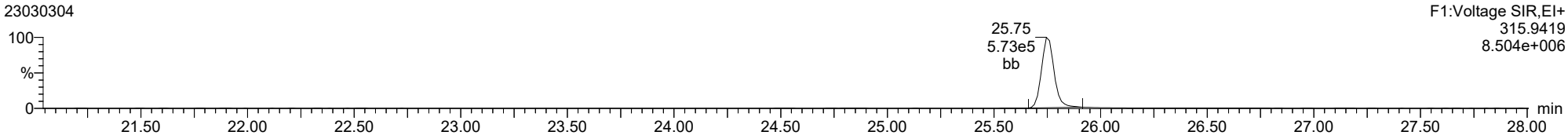

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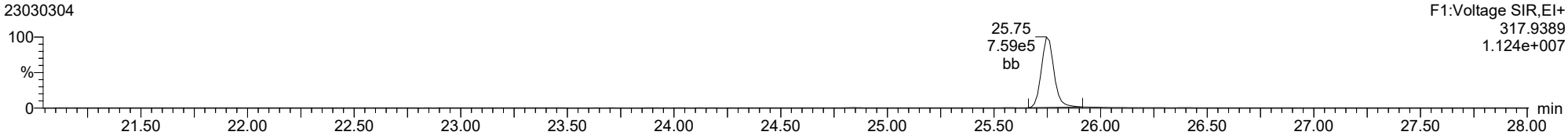

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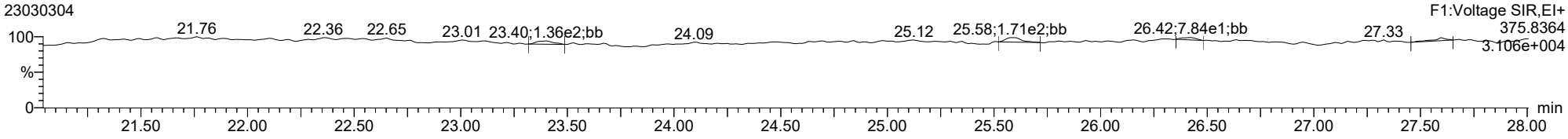

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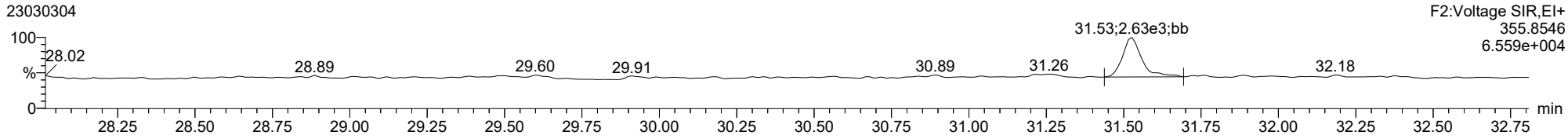
12378-PeCDD



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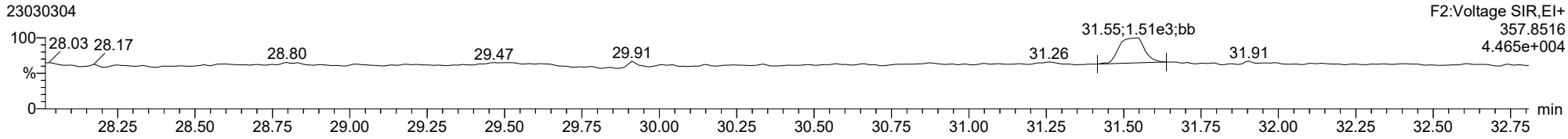

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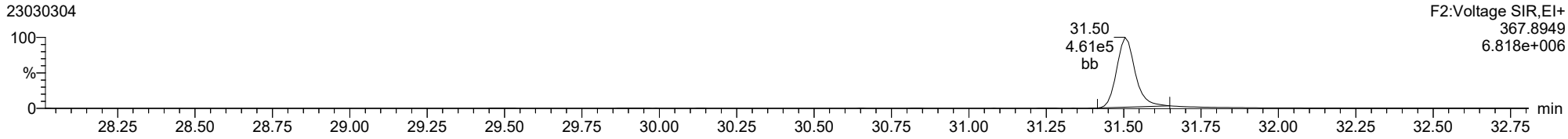

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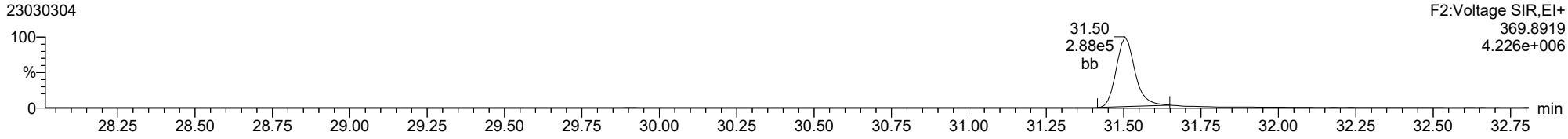

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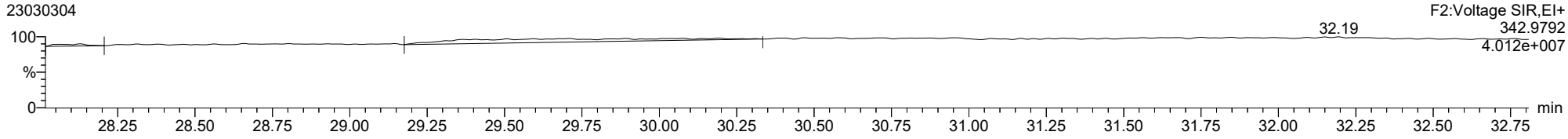

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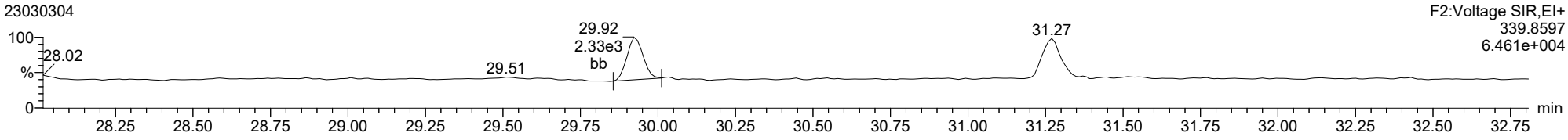
12378-PeCDF



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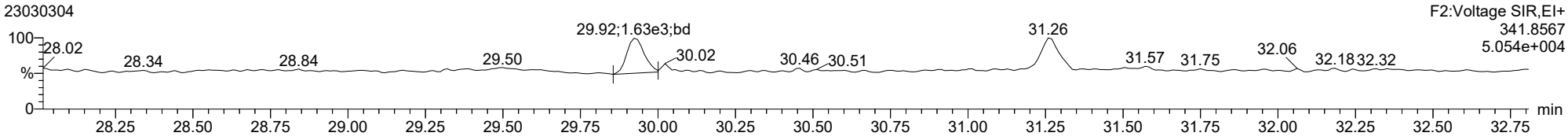

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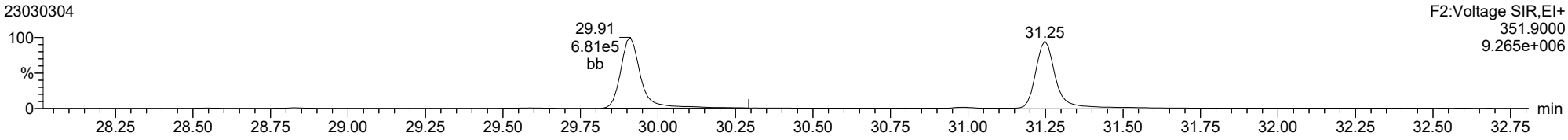

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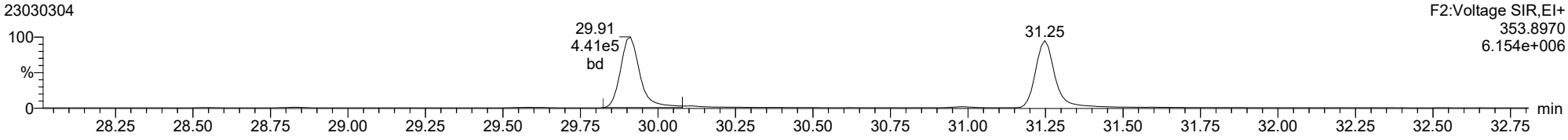

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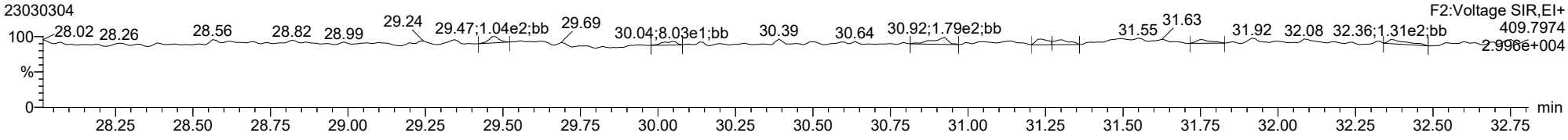

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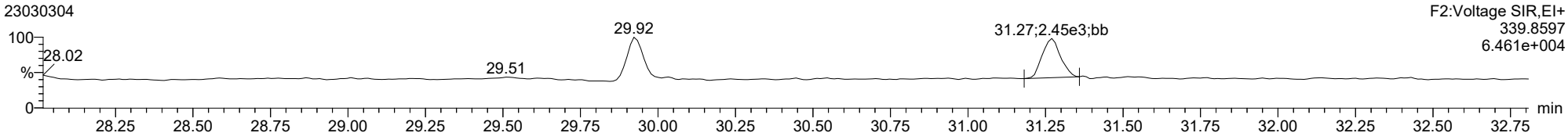

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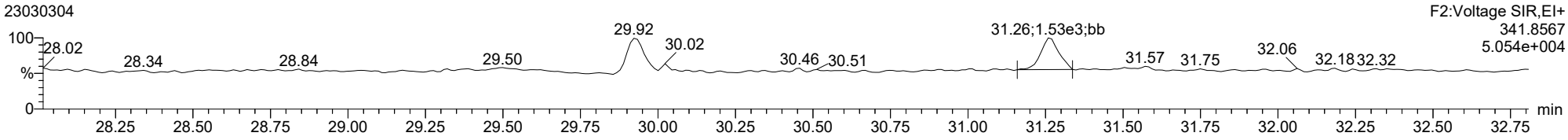

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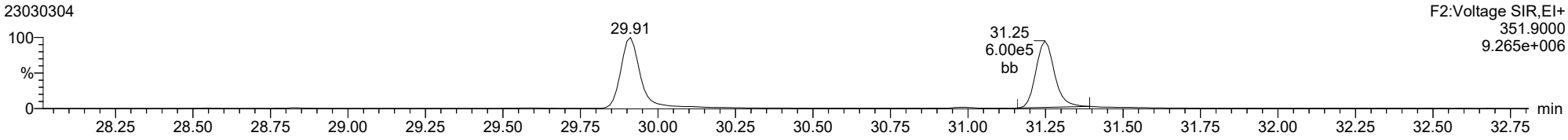

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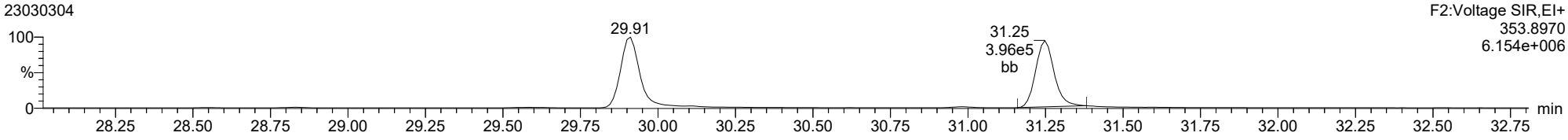

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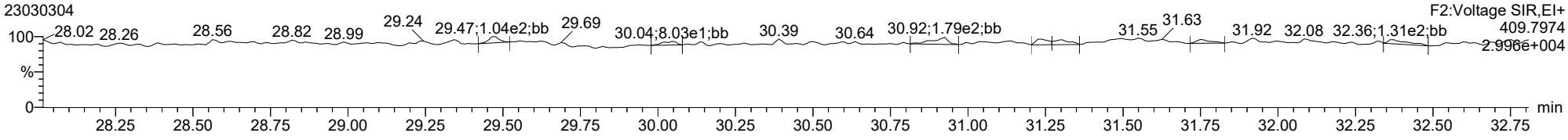

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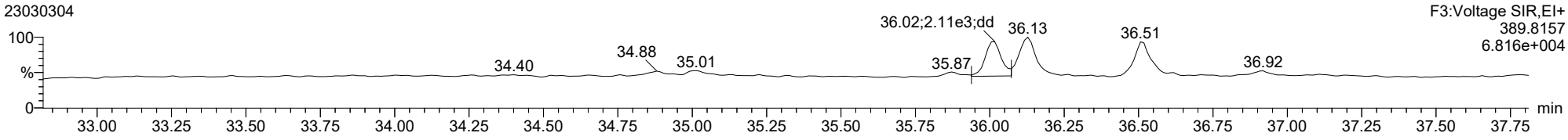

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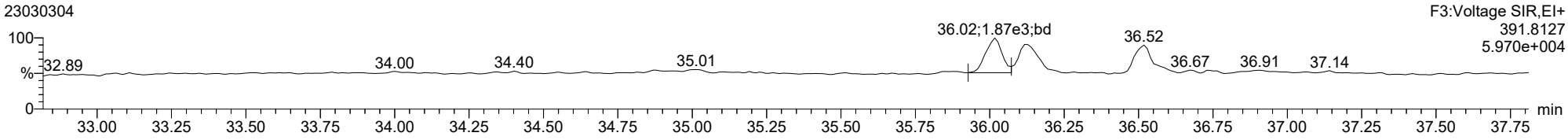

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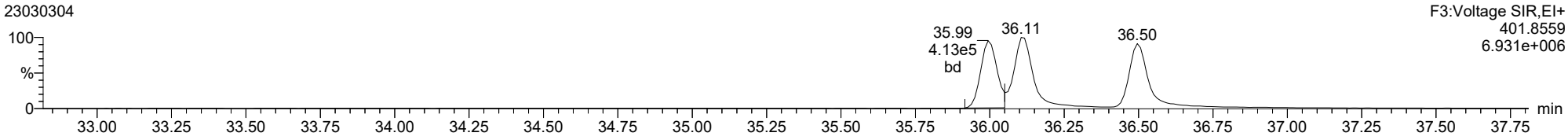

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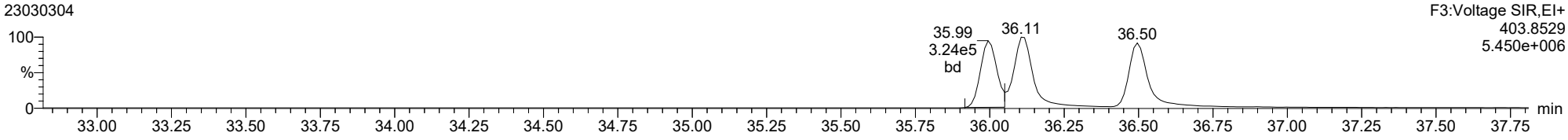

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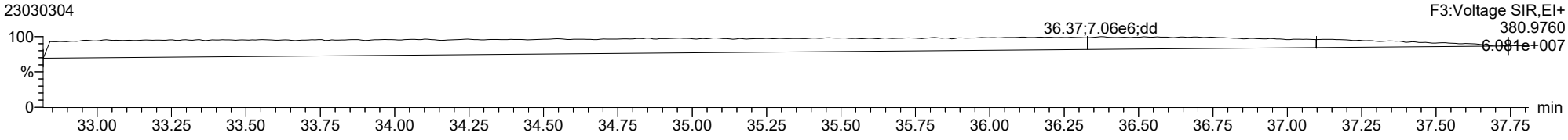

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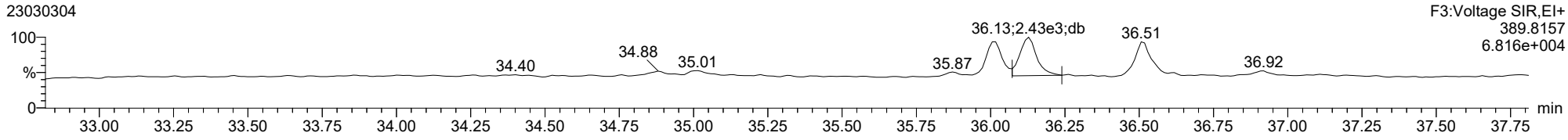

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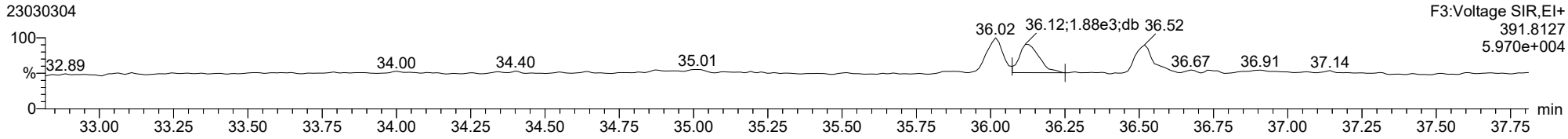

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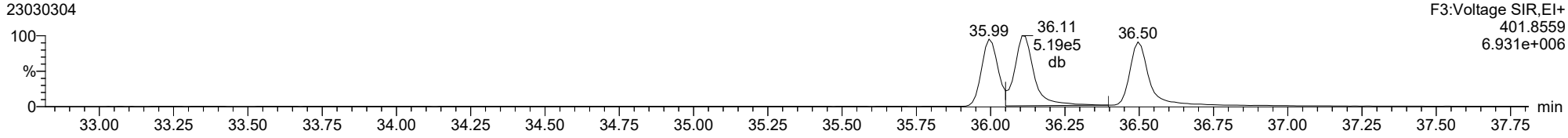

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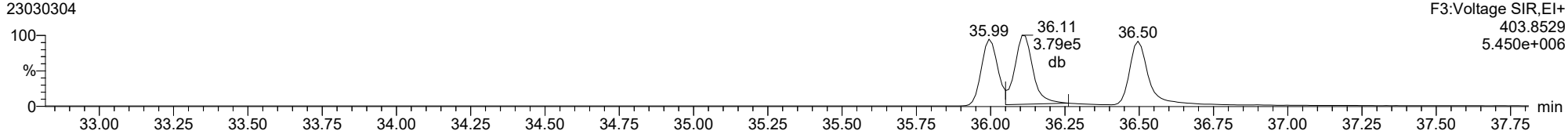

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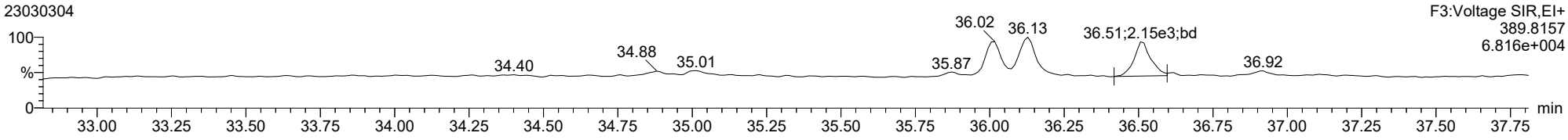

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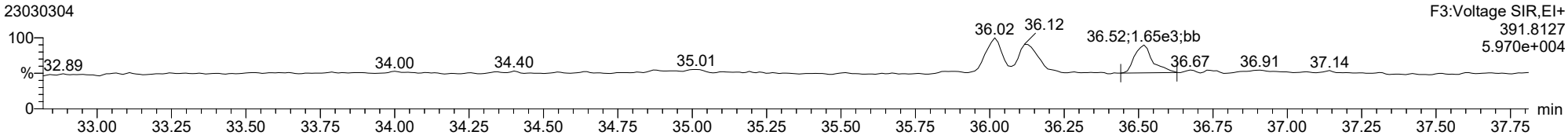

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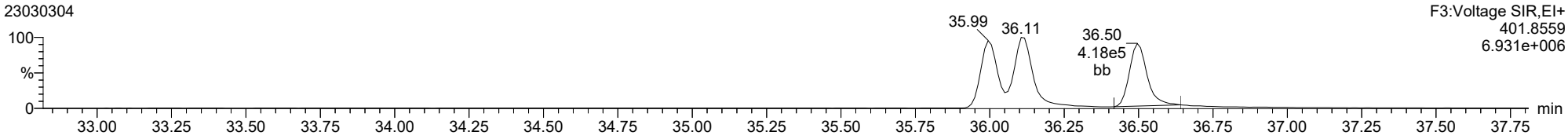

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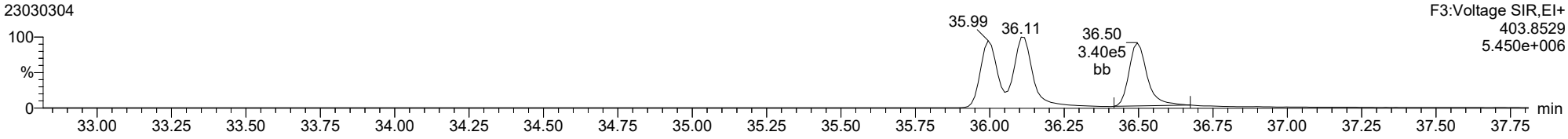

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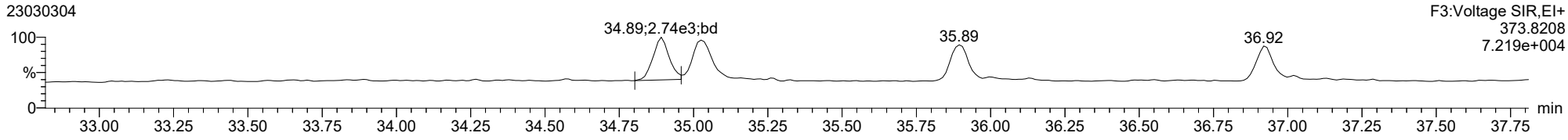

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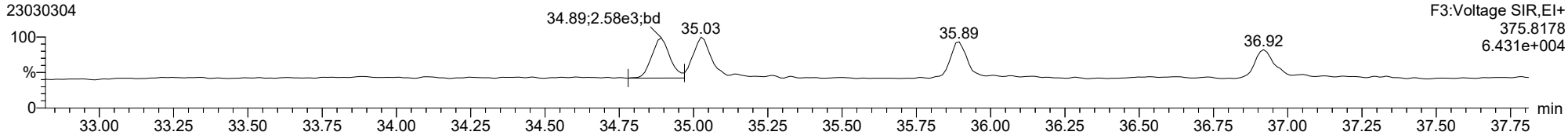

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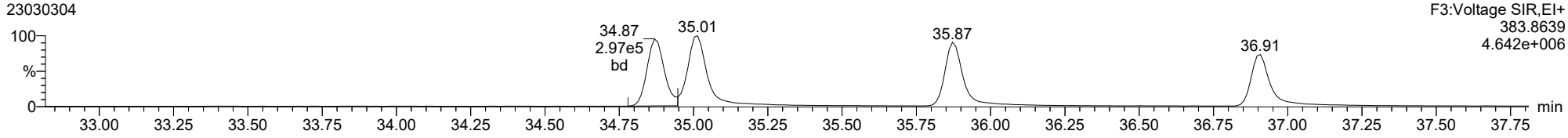

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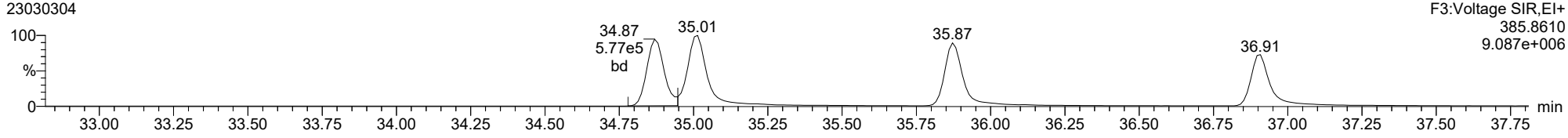

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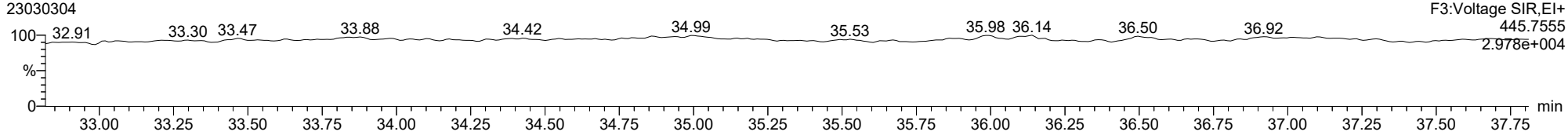

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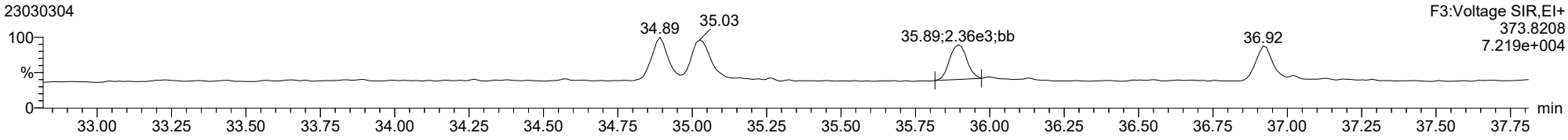

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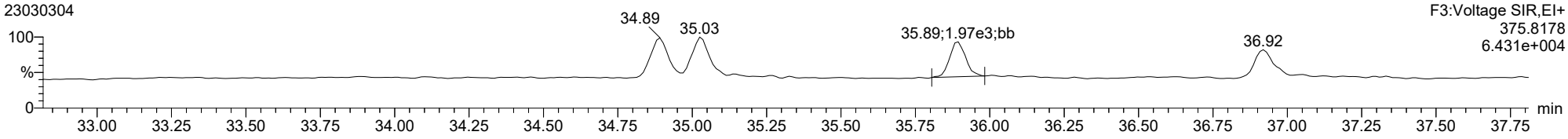

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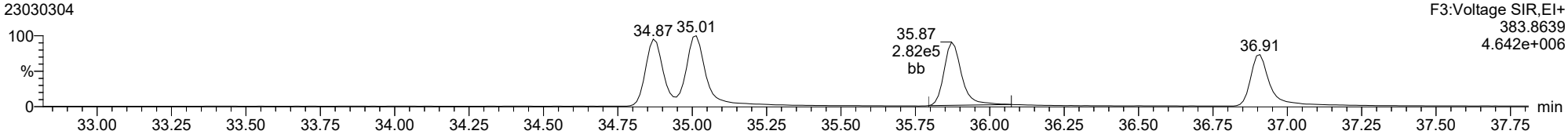

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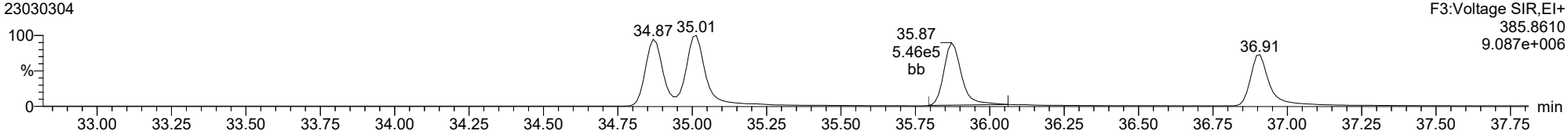

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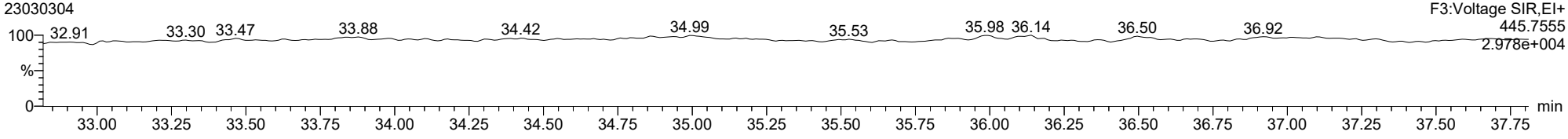

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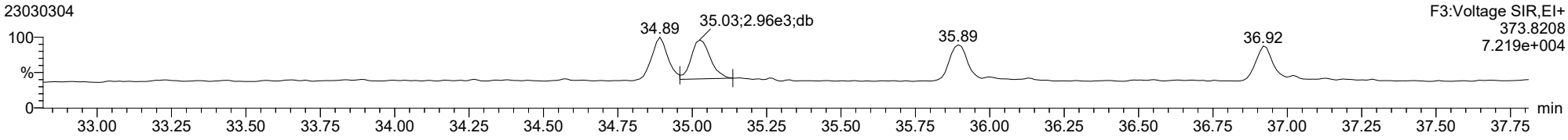

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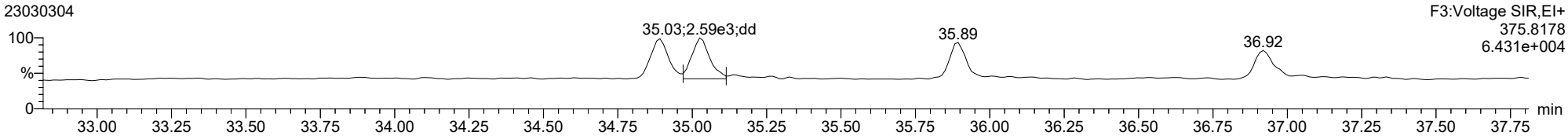

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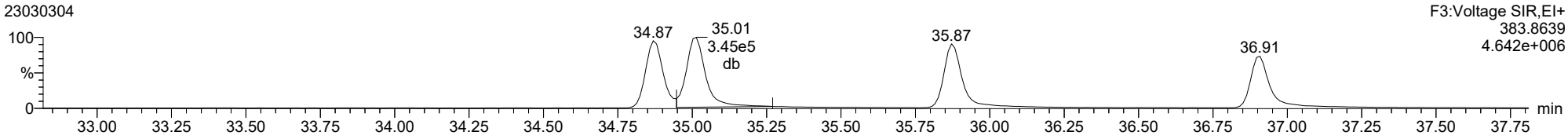

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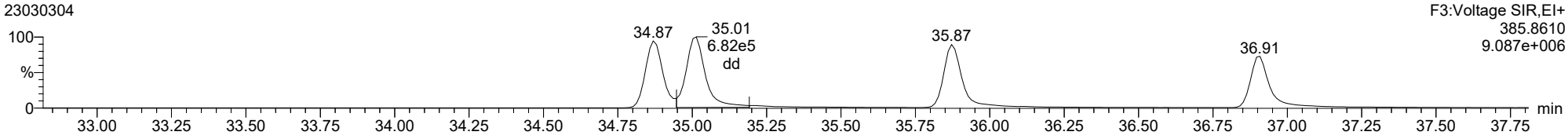

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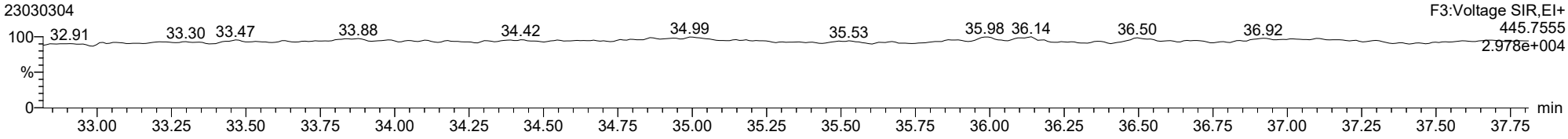

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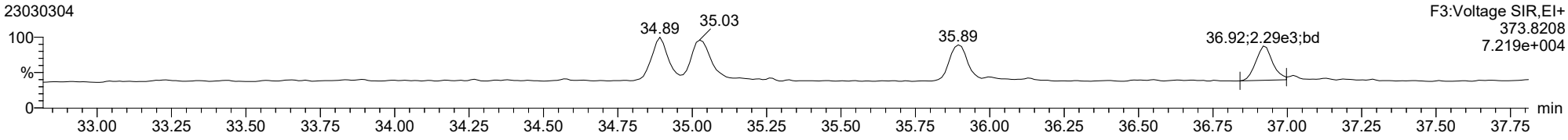

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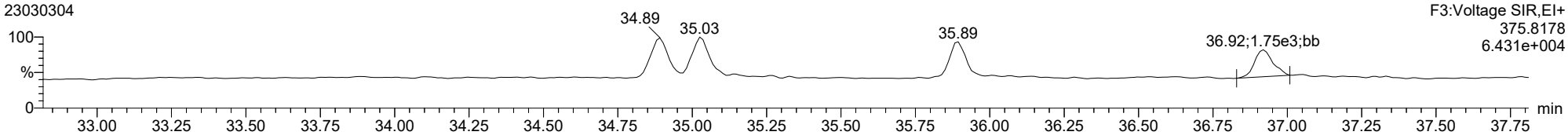

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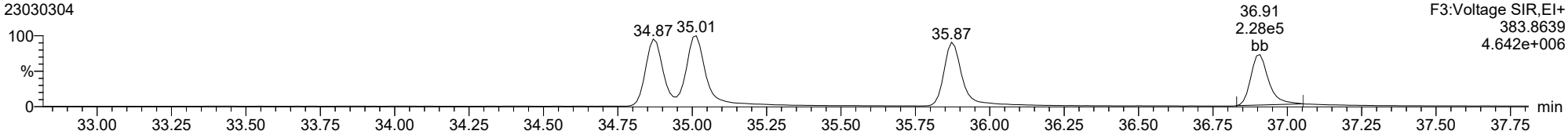

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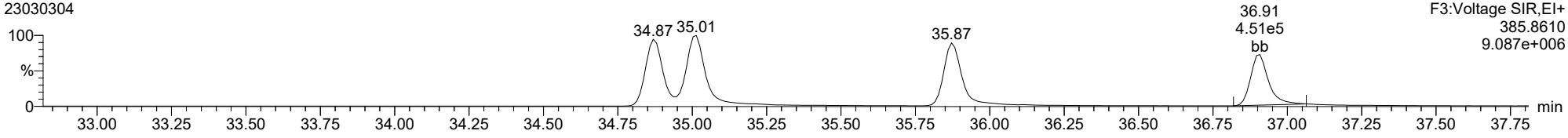

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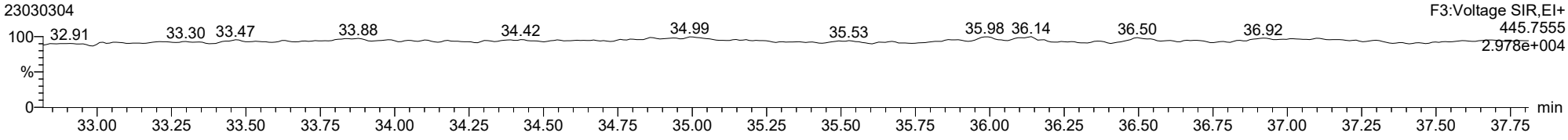

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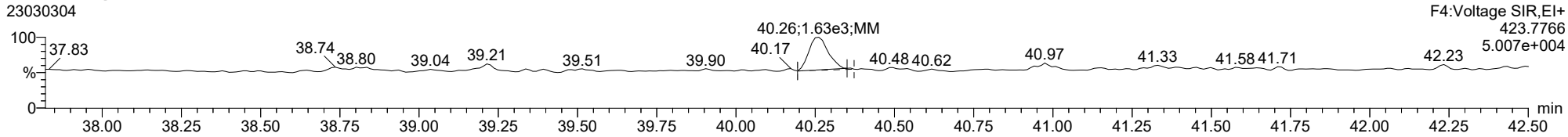

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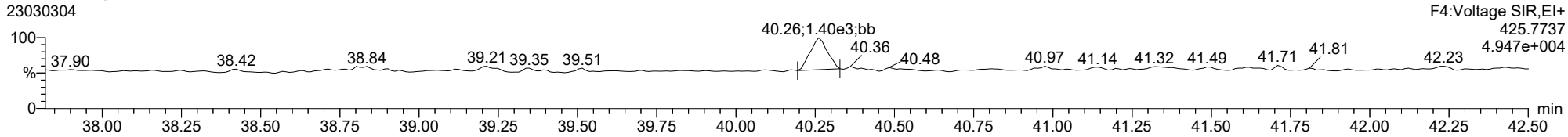

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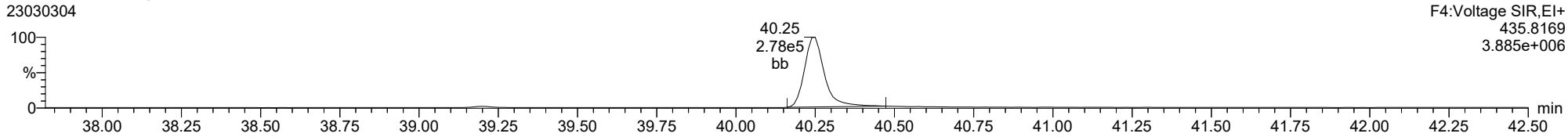

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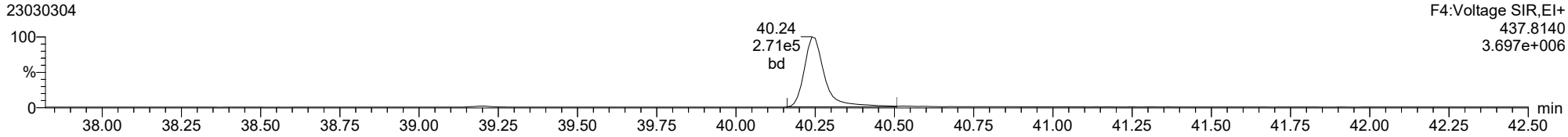

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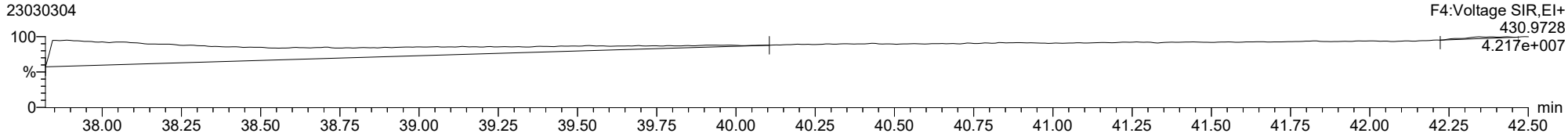

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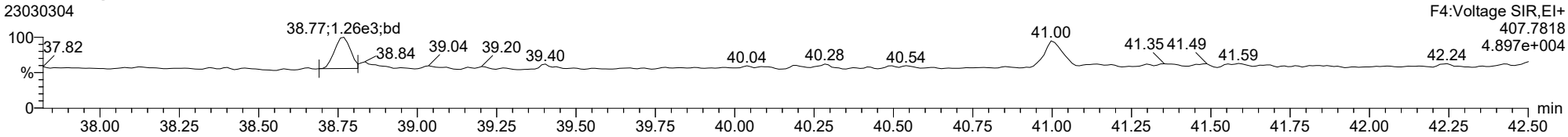

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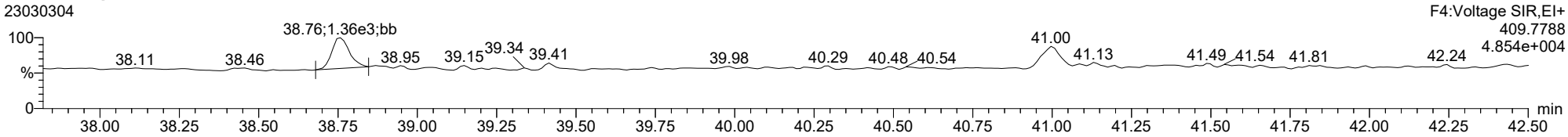

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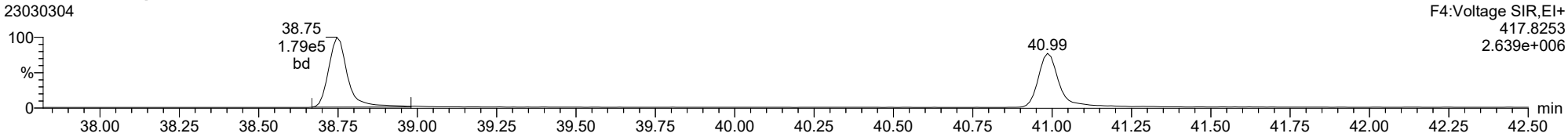

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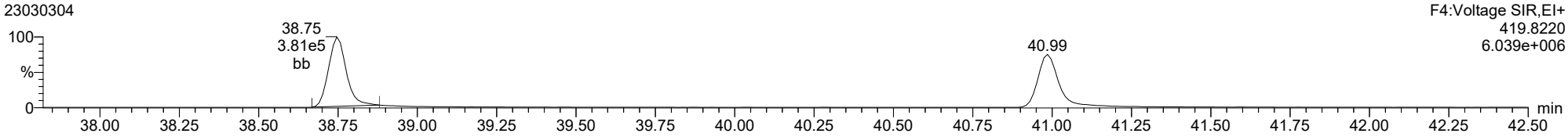
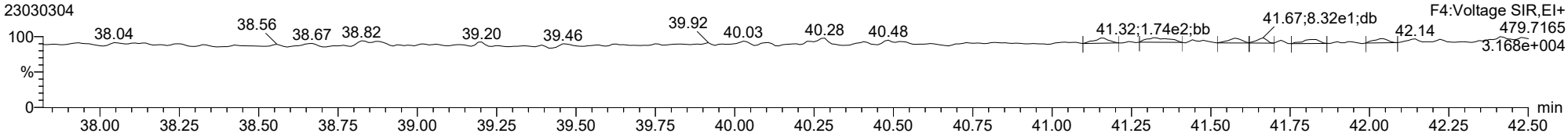


FUNCTION4 NCDPE



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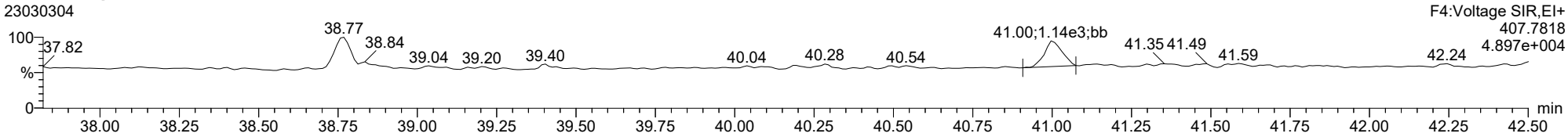

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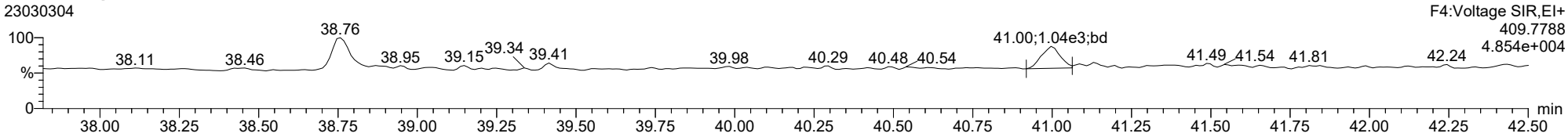

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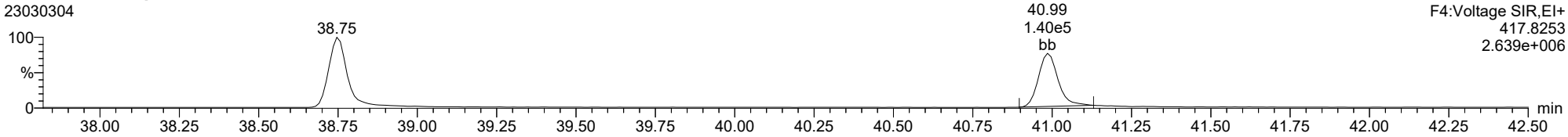

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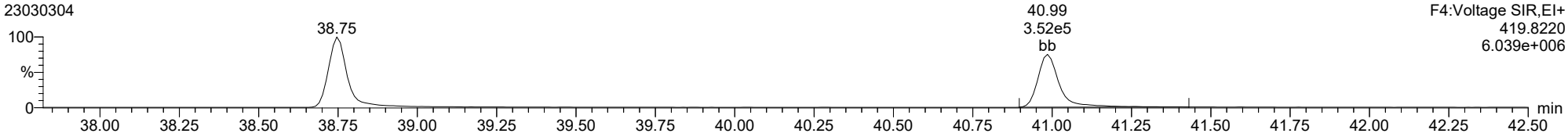
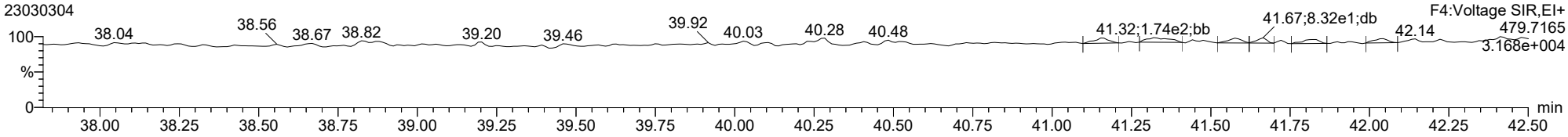


FUNCTION4 NCDPE



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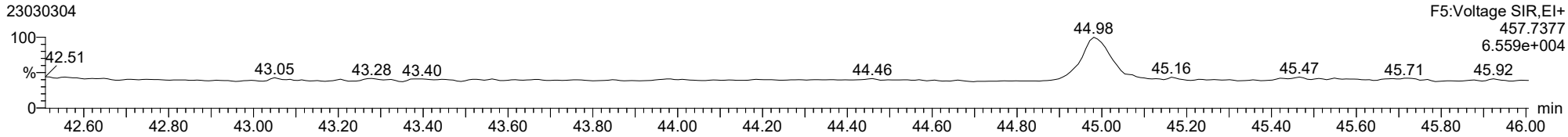

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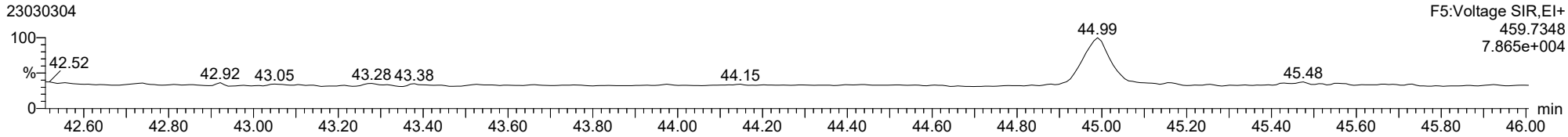

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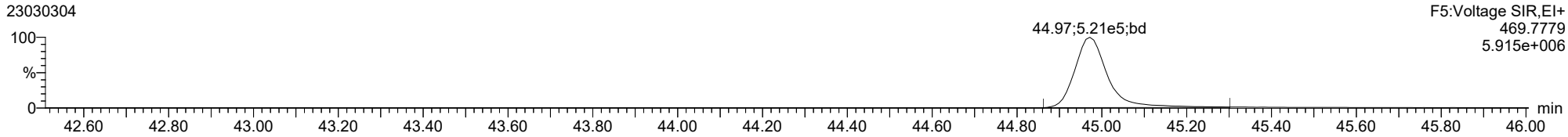

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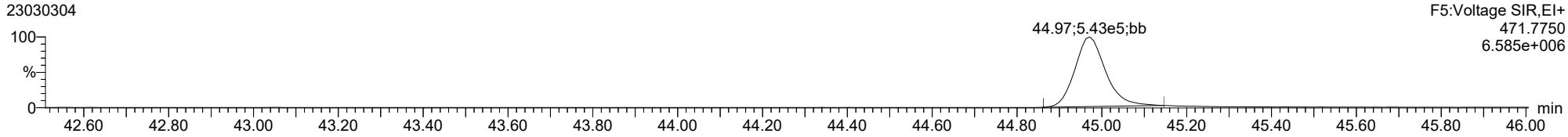
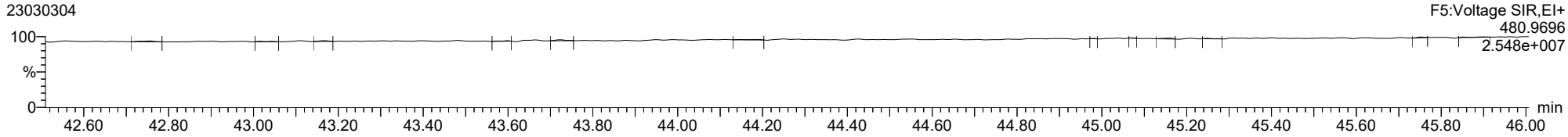


FUNCTION5 PFK



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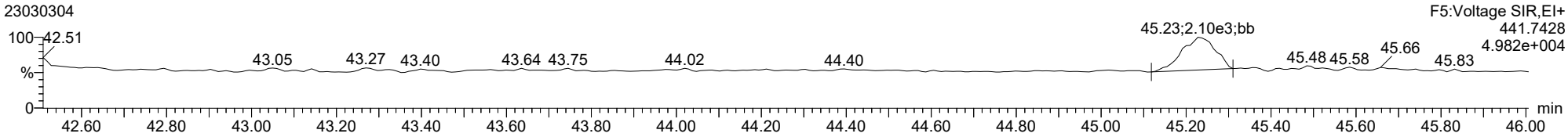
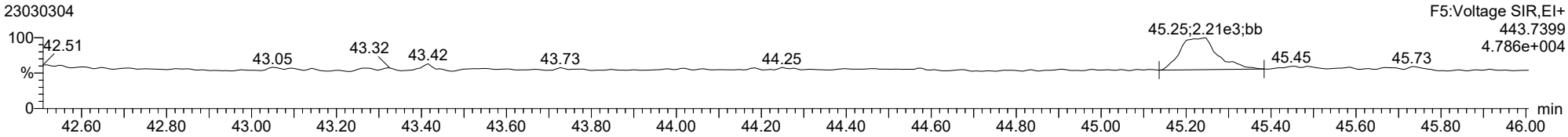
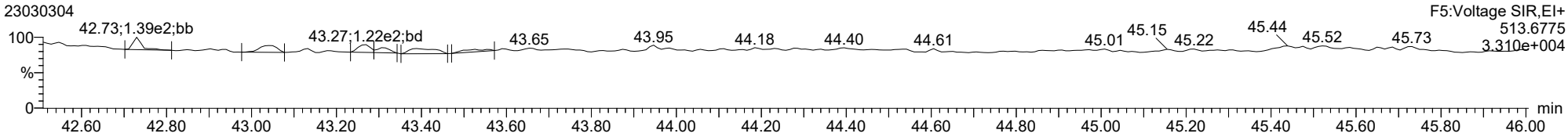


OCDF



FUNCTION5 DCDPE



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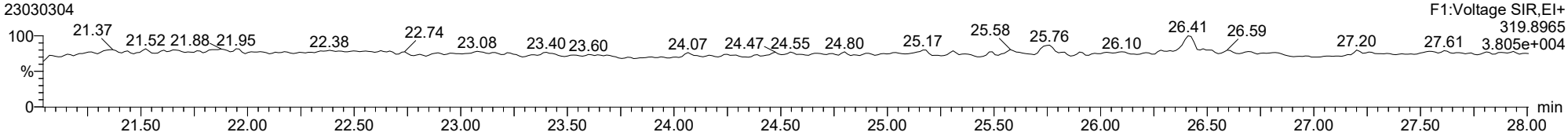
Total-tetradioxins



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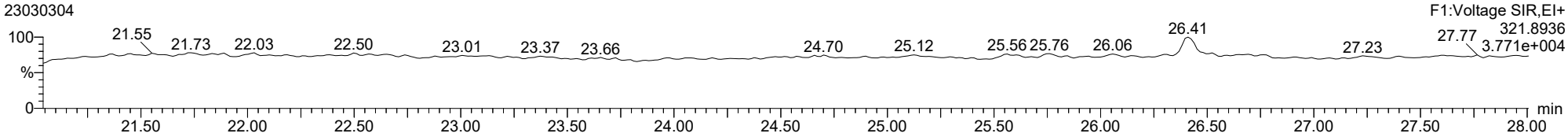
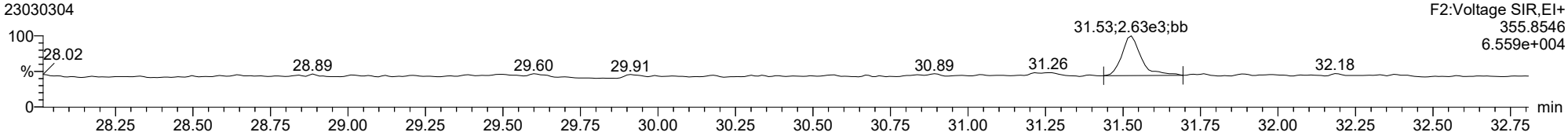


Total-pentadioxins



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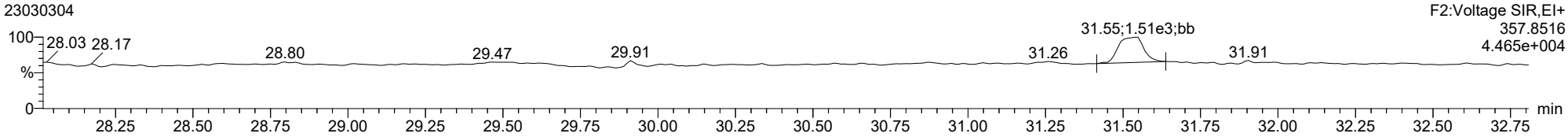

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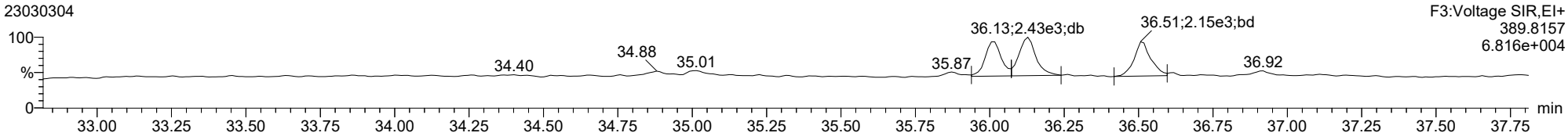

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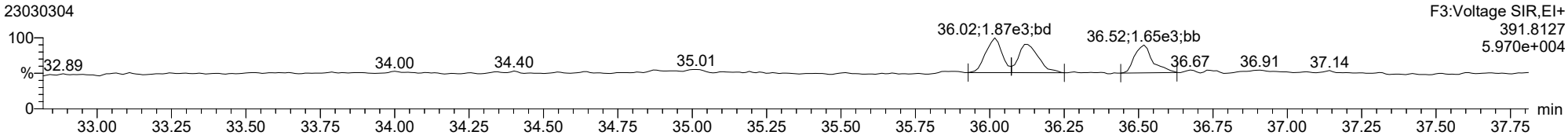

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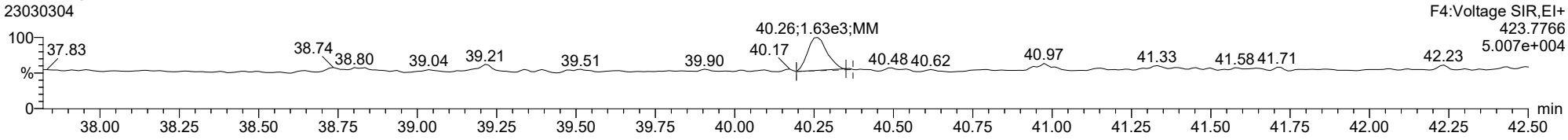

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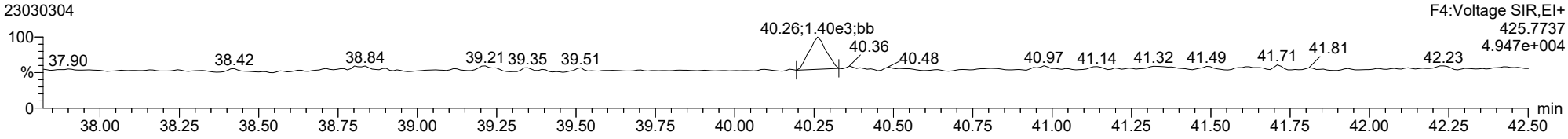

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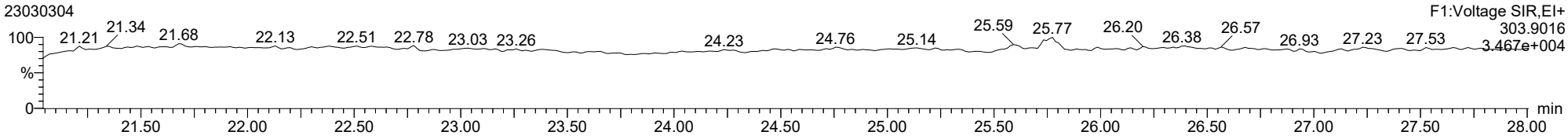
Total-tetrafurans



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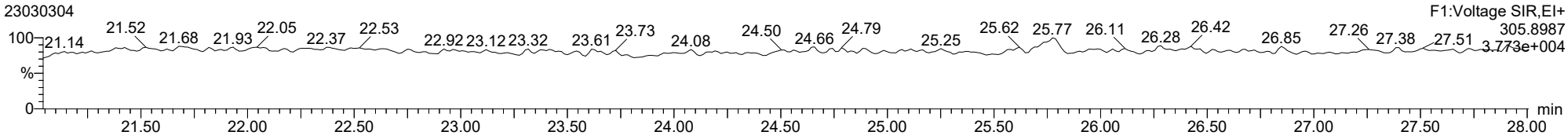

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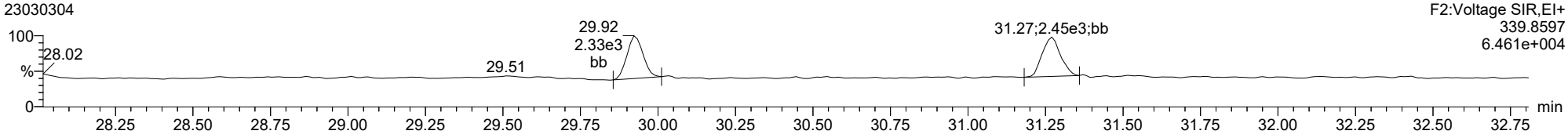

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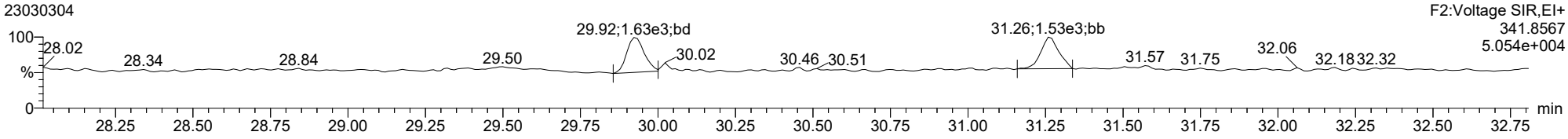

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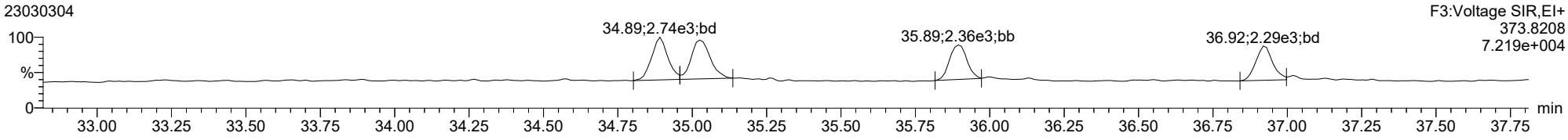
Printed: Monday, March 06, 2023 11:33:58 Pacific Standard Time

ID: CSLCW, Name: 23030304, Date: 03-Mar-2023, Time: 11:28:13, Conditions: AUTOSPEC01, User: pk

Total-hexafurans



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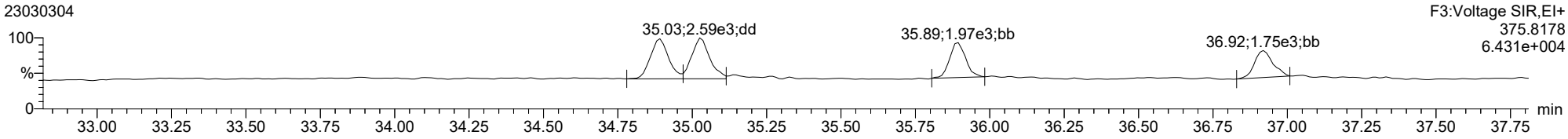
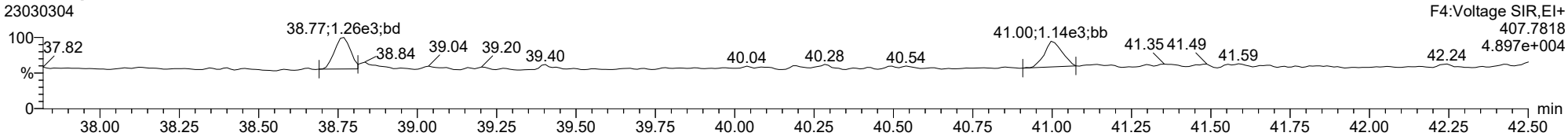
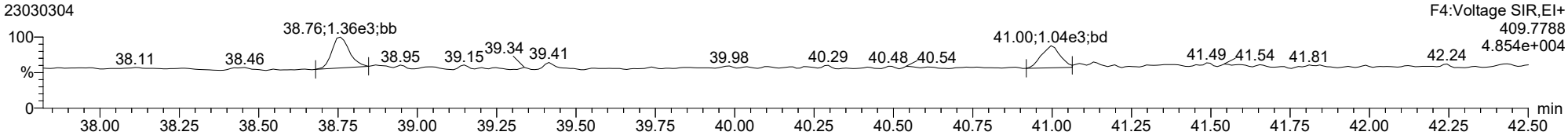


Total-heptafurans



Total-heptafurans



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Method: T:\Autospec\Methods\Dioxin230303.mdb 03 Mar 2023 14:58:50
Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 10:57:27

ID: CS1CW, Name: 23030305, Date: 03-Mar-2023, Time: 12:23:58, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	25.788	1.001	1.705e3	2.516e3	0.702	0.678	0.770	886	1799	2.34e4	3.87e4	26.4	21.5	NO	bb	MM	0.494
12378-PeCDF	29.933	1.000	5.914e3	4.099e3	0.679	1.442	1.550	1151	1276	9.10e4	6.48e4	79.1	50.8	NO	bb	bb	2.168
23478-PeCDF	31.270	1.000	7.974e3	4.958e3	0.786	1.608	1.550	1151	1276	1.22e5	6.97e4	106.1	54.6	NO	bb	bb	2.386
123478-HxCDF	34.891	1.000	1.063e4	7.851e3	1.166	1.354	1.240	1046	1170	1.58e5	1.17e5	151.4	100.1	NO	bd	bd	2.532
234678-HxCDF	35.894	1.000	1.057e4	7.802e3	1.140	1.354	1.240	1046	1170	1.51e5	1.18e5	143.9	100.6	NO	bb	bb	2.503
123678-HxCDF	35.036	1.001	1.161e4	8.676e3	1.091	1.339	1.240	1046	1170	1.53e5	1.27e5	146.1	108.8	NO	dd	dd	2.416
123789-HxCDF	36.930	1.001	8.482e3	6.693e3	1.137	1.267	1.240	1046	1170	1.18e5	8.92e4	112.7	76.2	NO	bd	bb	2.462
1234678-HpCDF	38.768	1.000	7.253e3	6.596e3	1.003	1.100	1.050	811	627	1.05e5	9.73e4	128.9	155.1	NO	bb	bb	2.680
1234789-HpCDF	41.008	1.000	5.116e3	5.234e3	0.953	0.978	1.050	811	627	7.22e4	7.17e4	89.0	114.3	NO	bb	bb	2.342
OCDF	45.237	1.006	5.981e3	6.798e3	0.778	0.880	0.890	709	890	6.92e4	8.13e4	97.6	91.3	NO	MM	bd	4.559
2378-TCDD	26.424	1.001	2.272e3	2.723e3	1.149	0.834	0.770	1286	820	3.35e4	3.73e4	26.0	45.5	NO	bb	bb	0.486
12378-PeCDD	31.538	1.001	7.831e3	5.061e3	1.022	1.548	1.550	902	618	1.00e5	7.05e4	111.4	114.0	NO	bb	bd	2.348
123478-HxCDD	36.016	1.000	7.381e3	5.875e3	0.996	1.256	1.240	655	843	1.17e5	9.68e4	178.2	114.9	NO	bd	bd	2.415
123678-HxCDD	36.139	1.001	9.152e3	7.340e3	1.001	1.247	1.240	655	843	1.26e5	9.90e4	192.8	117.4	NO	db	dd	2.494
123789-HxCDD	36.518	1.011	7.480e3	5.936e3	0.907	1.260	1.240	655	843	1.06e5	8.62e4	162.4	102.3	NO	bd	bd	2.440
1234678-HpCDD	40.272	1.001	6.283e3	5.832e3	1.039	1.077	1.050	694	917	8.98e4	8.16e4	129.4	89.0	NO	bb	bd	2.337
OCDD	44.999	1.000	8.578e3	9.676e3	0.920	0.887	0.890	635	634	9.84e4	1.12e5	154.9	175.9	NO	bd	bb	5.505
13C-2378-TCDF	25.760	1.007	5.230e5	6.960e5	1.620	0.752	0.770	2566	1723	7.68e6	1.02e7	2994.2	5911.4	NO	bb	bb	98.043
13C-12378-PeCDF	29.922	1.169	4.082e5	2.718e5	1.240	1.502	1.550	3092	2294	5.44e6	3.64e6	1758.1	1584.9	NO	bd	bb	71.437
13C-23478-PeCDF	31.259	1.222	4.106e5	2.788e5	1.118	1.473	1.550	3092	2294	5.91e6	4.02e6	1912.5	1751.3	NO	bb	bb	80.373
13C-123478-HxCDF	34.880	0.955	2.117e5	4.140e5	1.168	0.511	0.510	1778	2186	3.18e6	6.21e6	1786.5	2841.3	NO	bd	bd	93.801
13C-123678-HxCDF	35.014	0.959	2.754e5	4.947e5	1.386	0.557	0.510	1778	2186	3.40e6	6.43e6	1911.3	2941.0	NO	db	db	97.276
13C-234678-HxCDF	35.882	0.983	2.122e5	4.318e5	1.129	0.491	0.510	1778	2186	3.04e6	5.98e6	1709.4	2734.1	NO	bb	bd	99.880
13C-123789-HxCDF	36.908	1.011	1.853e5	3.568e5	0.932	0.519	0.510	1778	2186	2.62e6	5.01e6	1471.0	2293.6	NO	bb	bb	101.893
13C-1234678-HpCDF	38.757	1.062	1.579e5	3.573e5	0.895	0.442	0.440	2049	3174	2.36e6	5.45e6	1151.3	1718.3	NO	bb	bb	100.794
13C-1234789-HpCDF	40.997	1.123	1.372e5	3.264e5	0.770	0.420	0.440	2049	3174	1.74e6	3.92e6	851.0	1236.7	NO	bd	bd	105.482
13C-1234-TCDD	25.591	0.000	3.429e5	4.245e5	1.000	0.808	0.770	2519	1748	5.22e6	6.49e6	2072.6	3712.2	NO	bb	bb	100.000
13C-2378-TCDD	26.396	1.031	3.982e5	4.964e5	1.152	0.802	0.770	2519	1748	5.51e6	6.93e6	2188.2	3962.8	NO	bb	bb	101.152
13C-12378-PeCDD	31.515	1.232	3.242e5	2.131e5	0.829	1.521	1.550	1586	877	4.46e6	2.78e6	2809.5	3168.1	NO	bb	bd	84.489
13C-123478-HxCDD	36.005	0.986	3.100e5	2.413e5	0.995	1.285	1.240	2517	1649	4.83e6	3.77e6	1920.9	2283.3	NO	bd	bd	97.050
13C-123678-HxCDD	36.117	0.989	3.700e5	2.908e5	1.157	1.273	1.240	2517	1649	5.06e6	4.03e6	2012.2	2442.3	NO	db	db	100.049
13C-1234678-HpCDD	40.250	1.102	2.556e5	2.433e5	0.840	1.051	1.050	2183	1602	3.48e6	3.29e6	1594.9	2052.3	NO	bb	bb	103.999
13C-OCDD	44.980	1.232	3.386e5	3.823e5	0.767	0.886	0.890	3187	1733	3.80e6	4.27e6	1193.7	2462.5	NO	bb	bb	164.498
13C-123789-HxCDD	36.507	0.000	3.194e5	2.515e5	1.000	1.270	1.240	2517	1649	4.46e6	3.59e6	1770.5	2177.4	NO	bb	bb	100.000
37CL-2378-TCDD	26.424	1.033	5.065e3		1.288			2040		7.28e4		35.7			bb		0.513

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Last Altered: Monday, March 06, 2023 10:57:27 Pacific Standard Time
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ID: CS1CW, Name: 23030305, Date: 03-Mar-2023, Time: 12:23:58, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF					0.802		0.770	886	1799								
1289-TCDF					0.678		0.770	886	1799								
13468-PECDF					1.246		1.550	811	1221								
12389-PECDF					0.496		1.550	1151	1276								
123468-HXCDF					1.169		1.240	1046	1170								
1368-TCDD					1.015		0.770	1286	820								
1289-TCDD					0.909		0.770	1286	820								
12479-PECDD					2.301		1.550	902	618								
12389-PECDD					1.184		1.550	902	618								
124679-HXCDD					1.115		1.240	655	843								
1234679-HPCDD					1.137		1.050	694	917								
Total-tetrafurans			1.705e3		0.727			886		2.34e4							0.494
Total-penta1			0.000e0					811		0.00e0							
Total-pentafurans			1.389e4		0.654			1151		2.13e5							4.554
Total-hexafurans			4.139e4		1.141			1046		5.82e5							9.938
Total-heptafurans			1.237e4		0.978			811		1.77e5							5.023
Total-Furans			7.533e4		0.922			886		1.06e6							24.566
Total-tetradioxins			2.272e3		1.024			1286		3.35e4							0.486
Total-pentadioxins			7.831e3		1.502			902		1.00e5							2.348
Total-hexadioxins			2.401e4		1.005			655		3.49e5							7.349
Total-heptadioxins			6.283e3		1.088			694		8.98e4							2.337
Total-Dioxins			4.898e4		1.130			1286		6.72e5							18.025
Total-TEQ			1.243e5					1286		1.74e6							42.592
FUNCTION1 PFK			0.000e0					501375		0.00e0							
FUNCTION2 PFK			7.687e6					300953		7.99e6							0.000
FUNCTION3 PFK			1.081e7					473463		1.95e7							0.000
FUNCTION4 PFK			1.035e7					332160		2.87e6							
FUNCTION5 PFK			6.101e5					195111		8.38e5							
FUNCTION1 HXCD...			6.739e2					611		6.36e3							0.000
FUNCTION1 HPCD...																	
FUNCTION2 HPCD...			7.361e2					923		1.83e4							0.000
FUNCTION3 OCDPE			2.008e2					596		2.61e3							0.000
FUNCTION4 NCDPE			9.397e1					539		1.40e3							0.000
FUNCTION5 DCDPE			1.677e2					561		3.39e3							0.000

Method: T:\Autospec\Methods\Dioxin230303.mdb 03 Mar 2023 14:58:50
Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 10:57:27

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TF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	25.79	1.705e3	2.516e3	0.702	0.68	0.77	26.4	YES	NO	bb	MM	0.494

PP

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

PF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	23478-PeCDF	31.27	7.974e3	4.958e3	0.786	1.61	1.55	106.1	YES	NO	bb	bb	2.386
2	12378-PeCDF	29.93	5.914e3	4.099e3	0.679	1.44	1.55	79.1	YES	NO	bb	bb	2.168

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDF	36.93	8.482e3	6.693e3	1.137	1.27	1.24	112.7	YES	NO	bd	bb	2.462
2	234678-HxCDF	35.89	1.057e4	7.802e3	1.140	1.35	1.24	143.9	YES	NO	bb	bb	2.503
3	Total-hexafurans	35.23	1.011e2	8.523e1	1.141	1.19	1.24	2.2	NO	NO	db	db	0.025
4	123678-HxCDF	35.04	1.161e4	8.676e3	1.091	1.34	1.24	146.1	YES	NO	dd	dd	2.416
5	123478-HxCDF	34.89	1.063e4	7.851e3	1.166	1.35	1.24	151.4	YES	NO	bd	bd	2.532

HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDF	38.77	7.253e3	6.596e3	1.003	1.10	1.05	128.9	YES	NO	bb	bb	2.680
2	1234789-HpCDF	41.01	5.116e3	5.234e3	0.953	0.98	1.05	89.0	YES	NO	bb	bb	2.342

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Furans,TF,PP,PF,HF,HPF,OF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	23478-PeCDF	31.27	7.974e3	4.958e3	0.786	1.61	1.55	106.1	YES	NO	bb	bb	2.386
2	12378-PeCDF	29.93	5.914e3	4.099e3	0.679	1.44	1.55	79.1	YES	NO	bb	bb	2.168
3	2378-TCDF	25.79	1.705e3	2.516e3	0.702	0.68	0.77	26.4	YES	NO	bb	MM	0.494
4	123789-HxCDF	36.93	8.482e3	6.693e3	1.137	1.27	1.24	112.7	YES	NO	bd	bb	2.462
5	234678-HxCDF	35.89	1.057e4	7.802e3	1.140	1.35	1.24	143.9	YES	NO	bb	bb	2.503
6	Total-hexafurans	35.23	1.011e2	8.523e1	1.141	1.19	1.24	2.2	NO	NO	db	db	0.025
7	123678-HxCDF	35.04	1.161e4	8.676e3	1.091	1.34	1.24	146.1	YES	NO	dd	dd	2.416
8	123478-HxCDF	34.89	1.063e4	7.851e3	1.166	1.35	1.24	151.4	YES	NO	bd	bd	2.532
9	1234678-HpCDF	38.77	7.253e3	6.596e3	1.003	1.10	1.05	128.9	YES	NO	bb	bb	2.680
10	OCDF	45.24	5.981e3	6.798e3	0.778	0.88	0.89	97.6	YES	NO	MM	bd	4.559
11	1234789-HpCDF	41.01	5.116e3	5.234e3	0.953	0.98	1.05	89.0	YES	NO	bb	bb	2.342

TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDD	26.42	2.272e3	2.723e3	1.149	0.83	0.77	26.0	YES	NO	bb	bb	0.486

PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12378-PeCDD	31.54	7.831e3	5.061e3	1.022	1.55	1.55	111.4	YES	NO	bb	bd	2.348

HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDD	36.52	7.480e3	5.936e3	0.907	1.26	1.24	162.4	YES	NO	bd	bd	2.440
2	123678-HxCDD	36.14	9.152e3	7.340e3	1.001	1.25	1.24	192.8	YES	NO	db	dd	2.494
3	123478-HxCDD	36.02	7.381e3	5.875e3	0.996	1.26	1.24	178.2	YES	NO	bd	bd	2.415

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	40.27	6.283e3	5.832e3	1.039	1.08	1.05	129.4	YES	NO	bb	bd	2.337

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Dioxins,TD,PD,HD,HPD,OD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDD	26.42	2.272e3	2.723e3	1.149	0.83	0.77	26.0	YES	NO	bb	bb	0.486
2	123789-HxCDD	36.52	7.480e3	5.936e3	0.907	1.26	1.24	162.4	YES	NO	bd	bd	2.440
3	123678-HxCDD	36.14	9.152e3	7.340e3	1.001	1.25	1.24	192.8	YES	NO	db	dd	2.494
4	123478-HxCDD	36.02	7.381e3	5.875e3	0.996	1.26	1.24	178.2	YES	NO	bd	bd	2.415
5	12378-PeCDD	31.54	7.831e3	5.061e3	1.022	1.55	1.55	111.4	YES	NO	bb	bd	2.348
6	1234678-HpCDD	40.27	6.283e3	5.832e3	1.039	1.08	1.05	129.4	YES	NO	bb	bd	2.337
7	OCDD	45.00	8.578e3	9.676e3	0.920	0.89	0.89	154.9	YES	NO	bd	bb	5.505

TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	23478-PeCDF	31.27	7.974e3	4.958e3	0.786	1.61	1.55	106.1	YES	NO	bb	bb	2.386
2	12378-PeCDF	29.93	5.914e3	4.099e3	0.679	1.44	1.55	79.1	YES	NO	bb	bb	2.168
3	2378-TCDF	25.79	1.705e3	2.516e3	0.702	0.68	0.77	26.4	YES	NO	bb	MM	0.494
4	123789-HxCDF	36.93	8.482e3	6.693e3	1.137	1.27	1.24	112.7	YES	NO	bd	bb	2.462
5	234678-HxCDF	35.89	1.057e4	7.802e3	1.140	1.35	1.24	143.9	YES	NO	bb	bb	2.503
6	Total-hexafurans	35.23	1.011e2	8.523e1	1.141	1.19	1.24	2.2	NO	NO	db	db	0.025
7	123678-HxCDF	35.04	1.161e4	8.676e3	1.091	1.34	1.24	146.1	YES	NO	dd	dd	2.416
8	123478-HxCDF	34.89	1.063e4	7.851e3	1.166	1.35	1.24	151.4	YES	NO	bd	bd	2.532
9	1234678-HpCDF	38.77	7.253e3	6.596e3	1.003	1.10	1.05	128.9	YES	NO	bb	bb	2.680
10	OCDF	45.24	5.981e3	6.798e3	0.778	0.88	0.89	97.6	YES	NO	MM	bd	4.559
11	1234789-HpCDF	41.01	5.116e3	5.234e3	0.953	0.98	1.05	89.0	YES	NO	bb	bb	2.342
12	2378-TCDD	26.42	2.272e3	2.723e3	1.149	0.83	0.77	26.0	YES	NO	bb	bb	0.486
13	123789-HxCDD	36.52	7.480e3	5.936e3	0.907	1.26	1.24	162.4	YES	NO	bd	bd	2.440
14	123678-HxCDD	36.14	9.152e3	7.340e3	1.001	1.25	1.24	192.8	YES	NO	db	dd	2.494
15	123478-HxCDD	36.02	7.381e3	5.875e3	0.996	1.26	1.24	178.2	YES	NO	bd	bd	2.415
16	12378-PeCDD	31.54	7.831e3	5.061e3	1.022	1.55	1.55	111.4	YES	NO	bb	bd	2.348
17	1234678-HpCDD	40.27	6.283e3	5.832e3	1.039	1.08	1.05	129.4	YES	NO	bb	bd	2.337
18	OCDD	45.00	8.578e3	9.676e3	0.920	0.89	0.89	154.9	YES	NO	bd	bb	5.505

PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

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PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	30.41	6.929e5					4.3	YES		bb		0.000
2	FUNCTION2 PFK	28.05	6.994e6					22.3	YES		bb		0.000

PFK3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	37.60	1.788e4					1.3	NO		bb		0.000
2	FUNCTION3 PFK	36.61	1.585e4					1.4	NO		bb		0.000
3	FUNCTION3 PFK	36.53	6.942e3					0.8	NO		bb		0.000
4	FUNCTION3 PFK	33.99	9.502e3					0.9	NO		bb		0.000
5	FUNCTION3 PFK	33.78	4.298e6					7.0	YES		db		0.000
6	FUNCTION3 PFK	33.15	6.467e6					29.8	YES		bd		0.000

PFK4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	38.85	1.035e7					8.6	YES		bb		

PFK5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	42.97	6.101e5					4.3	YES		bb		

ETHERS1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	27.27	8.033e1					1.9	NO		bb		0.000
2	FUNCTION1 HXCD...	24.98	2.706e2					3.4	YES		bb		0.000
3	FUNCTION1 HXCD...	22.17	1.286e2					2.0	NO		bb		0.000
4	FUNCTION1 HXCD...	21.47	8.089e1					1.9	NO		bb		0.000
5	FUNCTION1 HXCD...	21.17	1.135e2					1.3	NO		bb		0.000

ETHERS2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

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ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	32.66	1.045e2					4.3	YES		db		0.000
2	FUNCTION2 HPCD...	32.58	1.134e2					3.0	NO		bd		0.000
3	FUNCTION2 HPCD...	31.88	7.272e1					1.9	NO		bb		0.000
4	FUNCTION2 HPCD...	30.71	7.070e1					1.8	NO		bb		0.000
5	FUNCTION2 HPCD...	30.13	1.134e2					2.5	NO		bb		0.000
6	FUNCTION2 HPCD...	28.92	7.142e1					2.0	NO		bb		0.000
7	FUNCTION2 HPCD...	28.66	9.983e1					2.2	NO		bb		0.000
8	FUNCTION2 HPCD...	28.24	9.016e1					2.1	NO		bb		0.000

ETHERS4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	36.50	2.008e2					4.4	YES		bb		0.000

ETHERS5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	41.59	9.397e1					2.6	NO		bb		0.000

ETHERS6

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 DCDPE	44.72	7.355e1					2.5	NO		bb		0.000
2	FUNCTION5 DCDPE	44.30	9.416e1					3.6	YES		bb		0.000

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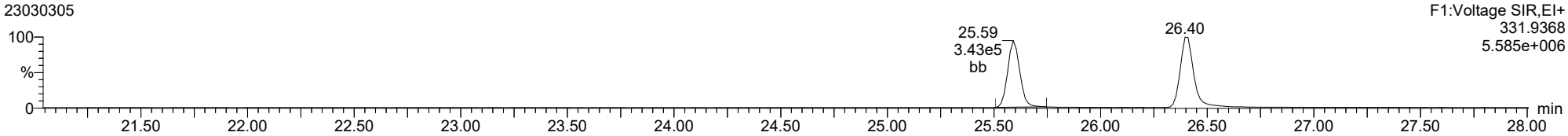
13C-1234-TCDD



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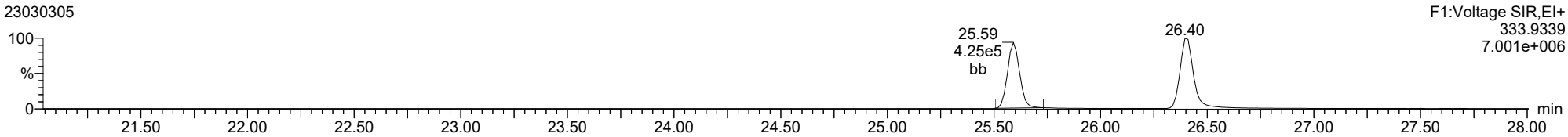

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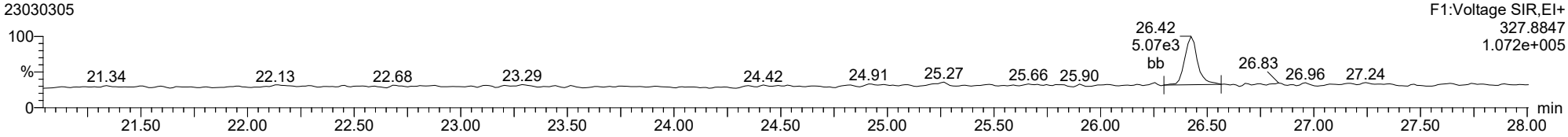

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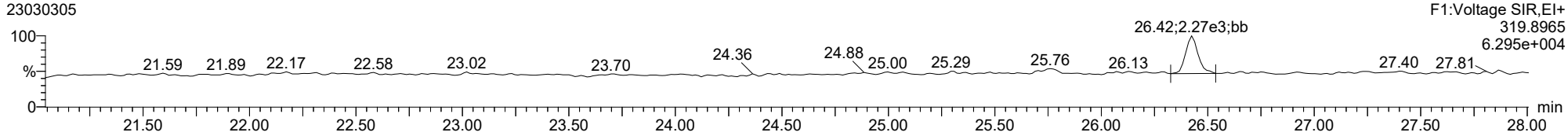
2378-TCDD



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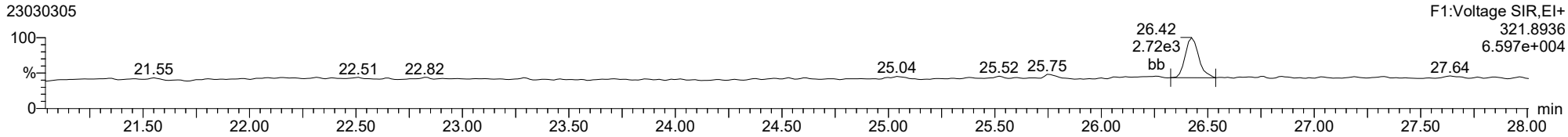

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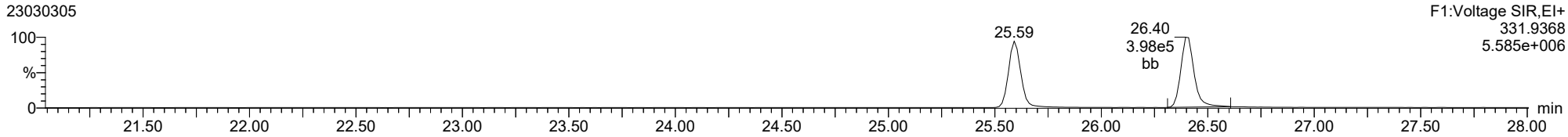

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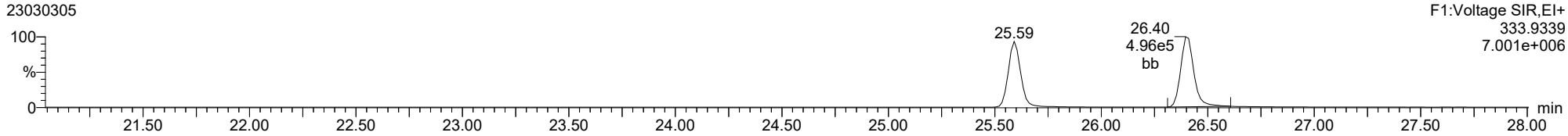
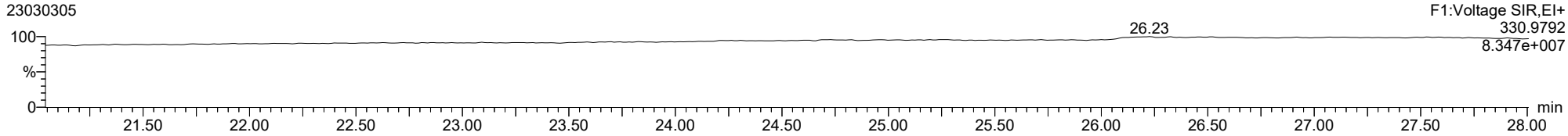


FUNCTION1 PFK



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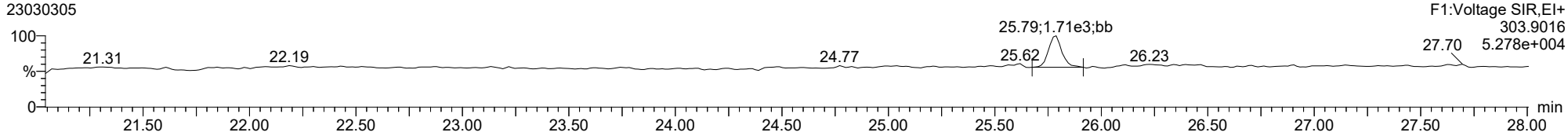
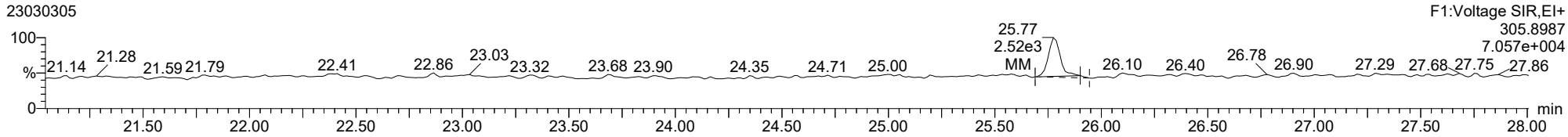
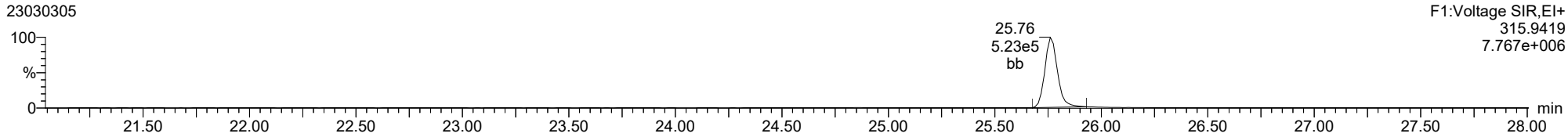
2378-TCDF



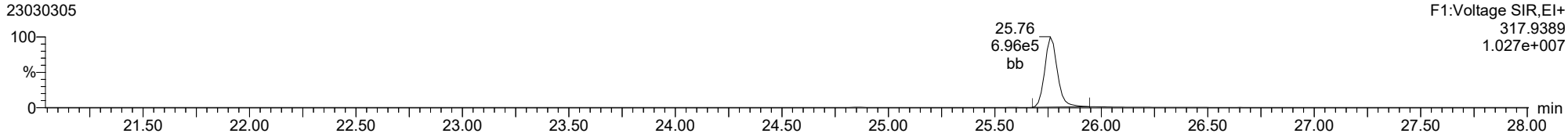
2378-TCDF



13C-2378-TCDF



13C-2378-TCDF



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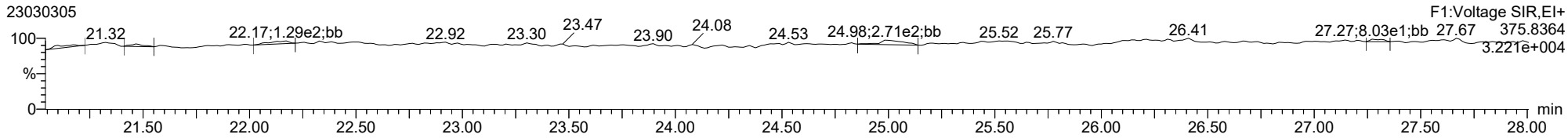

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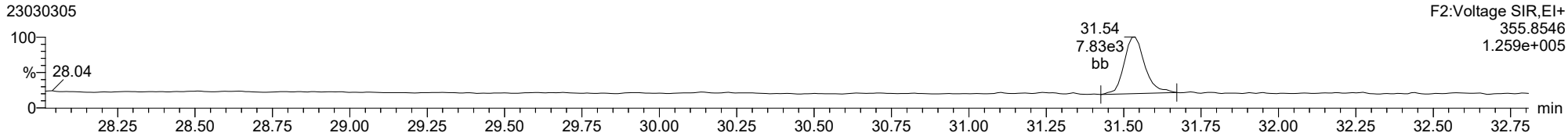
12378-PeCDD



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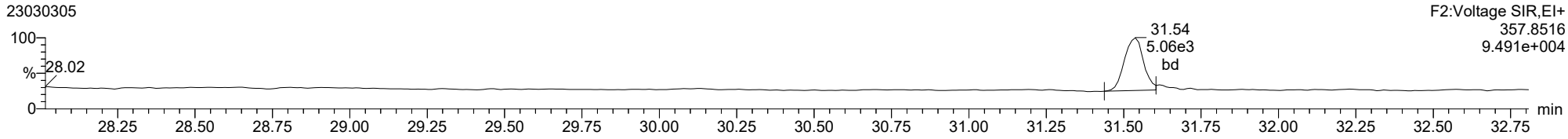

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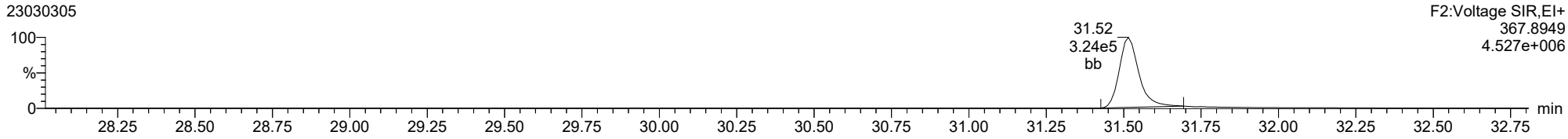

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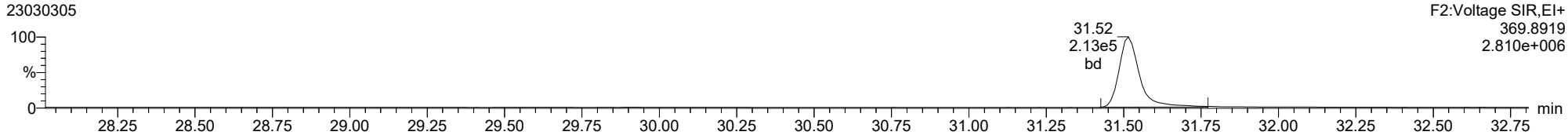

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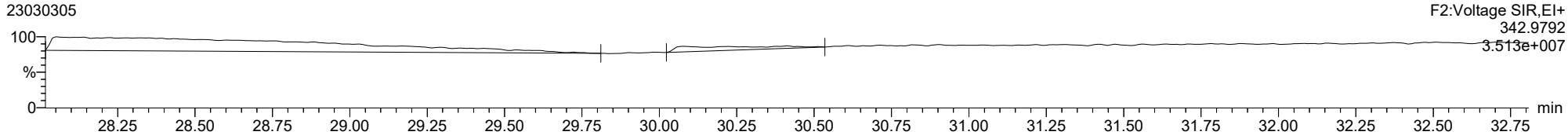

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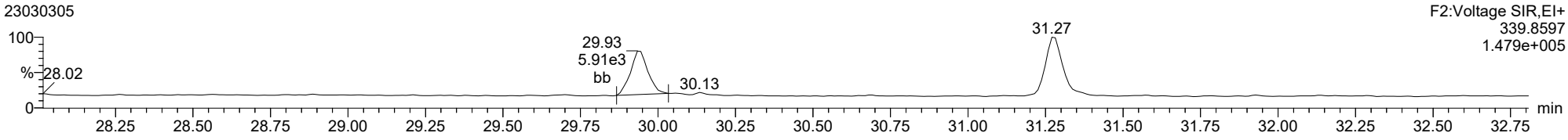
12378-PeCDF



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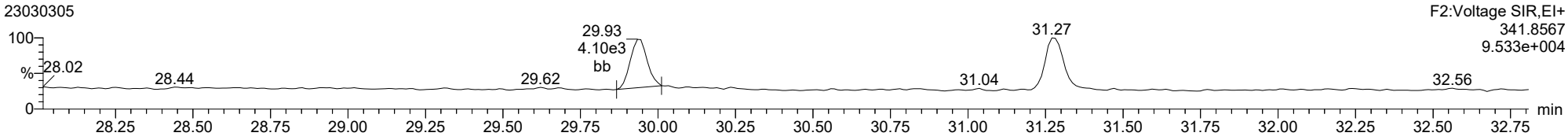

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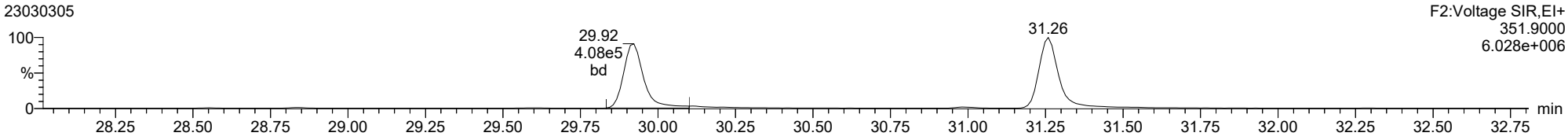

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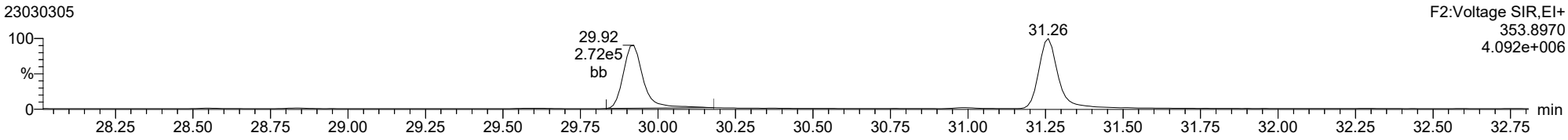

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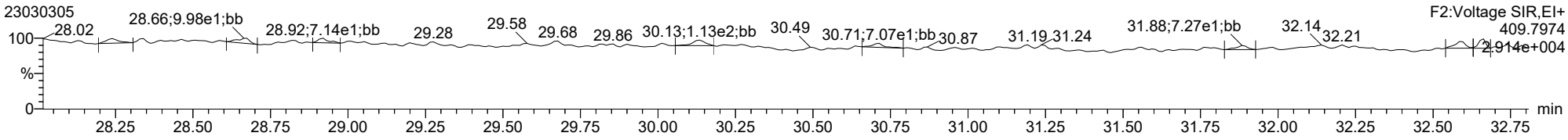

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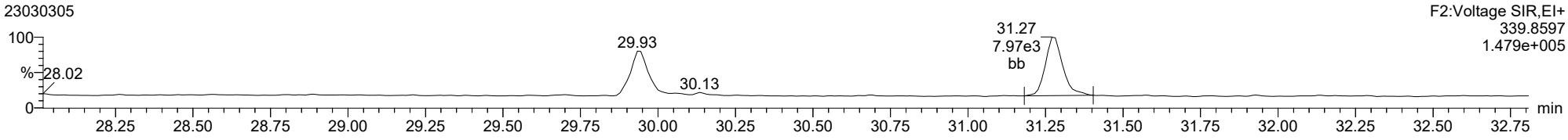
23478-PeCDF



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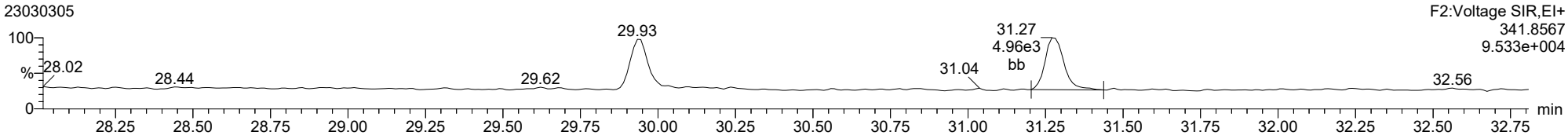

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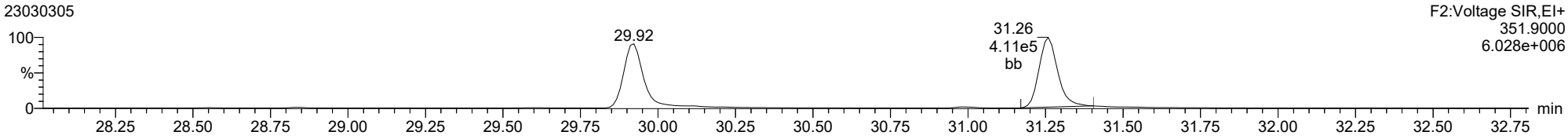

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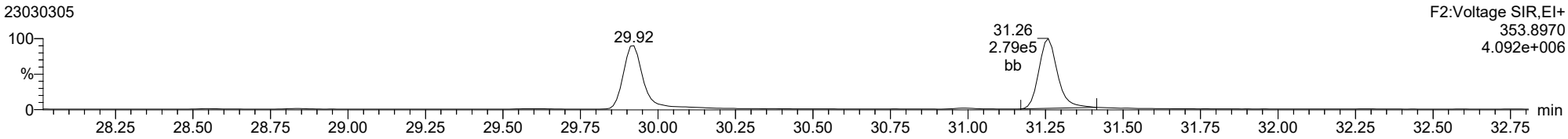

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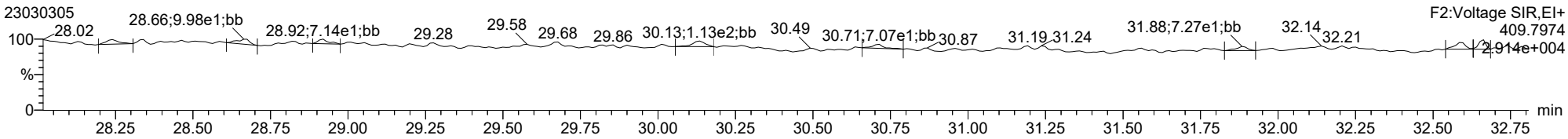

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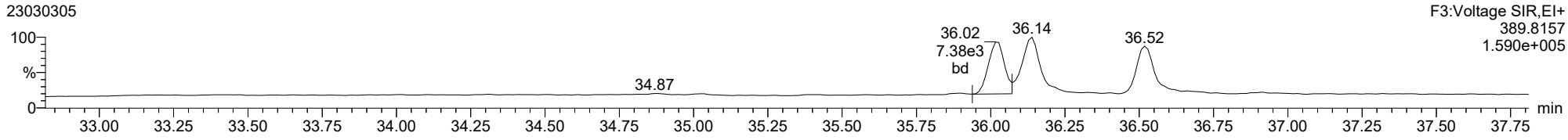

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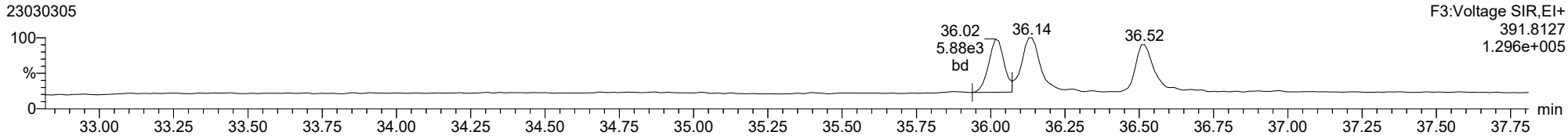

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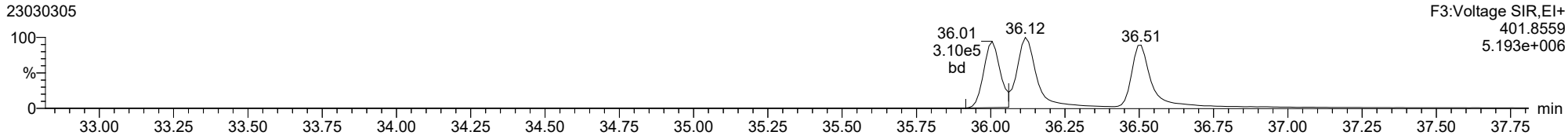

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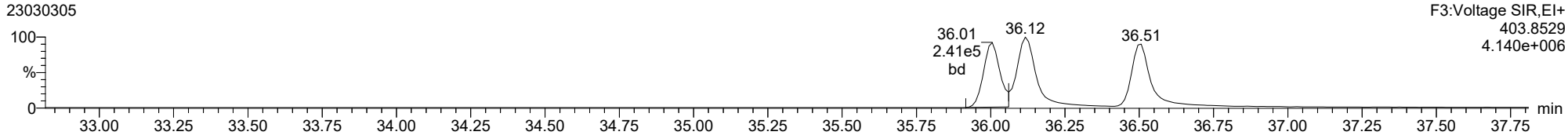
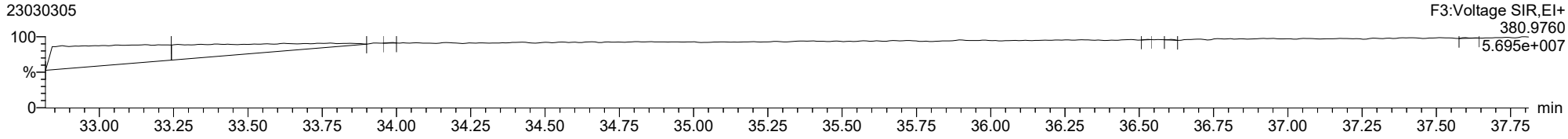


FUNCTION3 PFK



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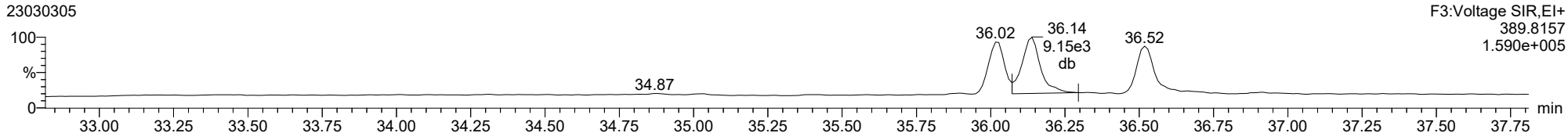

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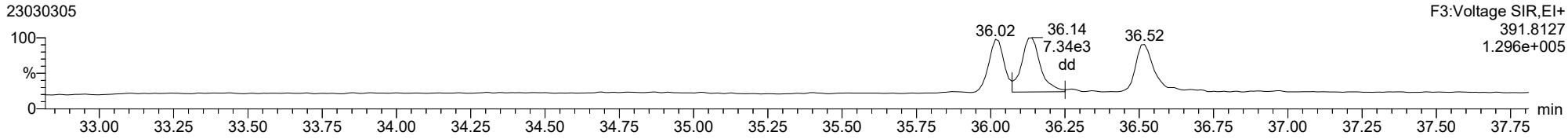

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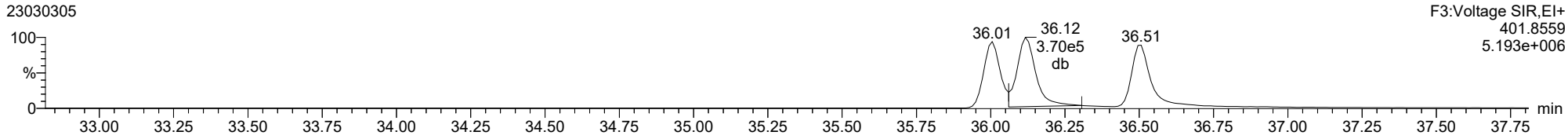

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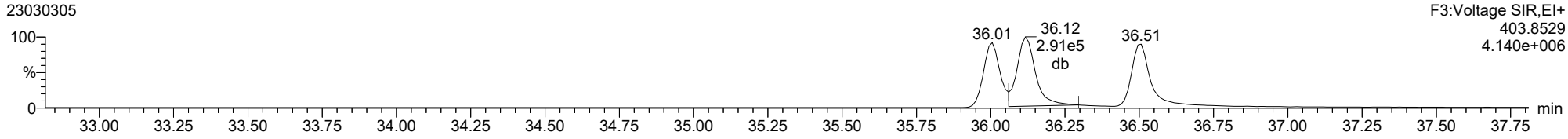

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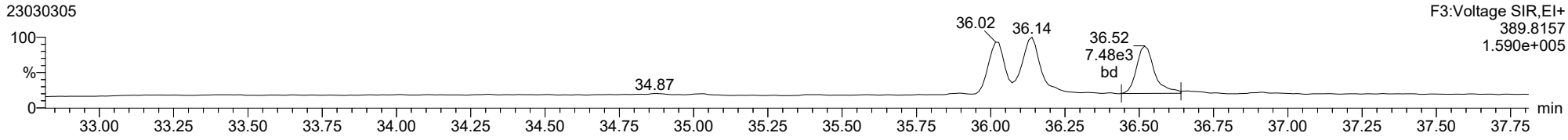
123789-HxCDD



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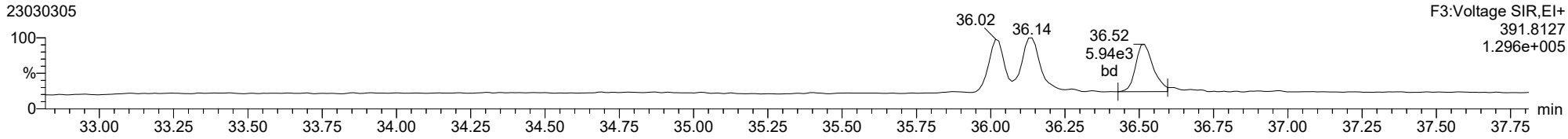

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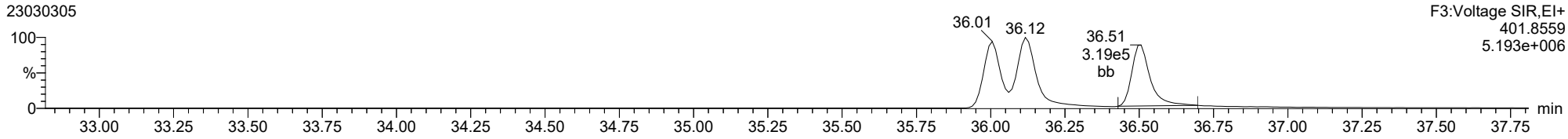

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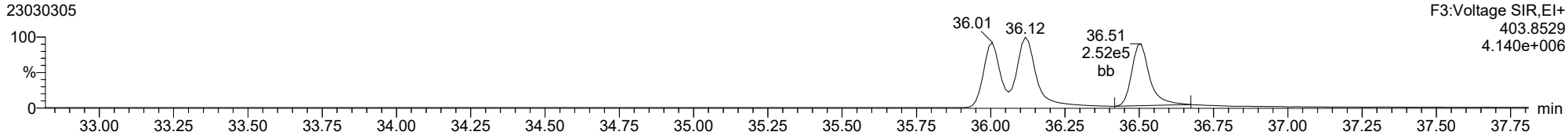

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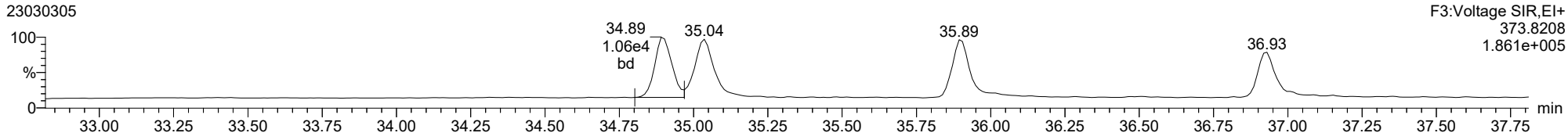

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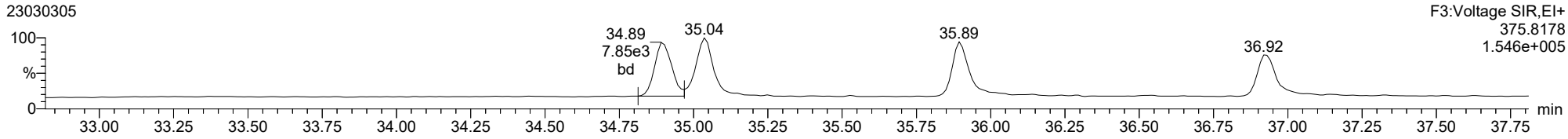

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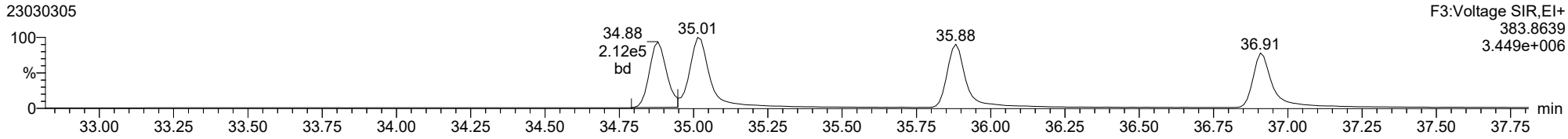

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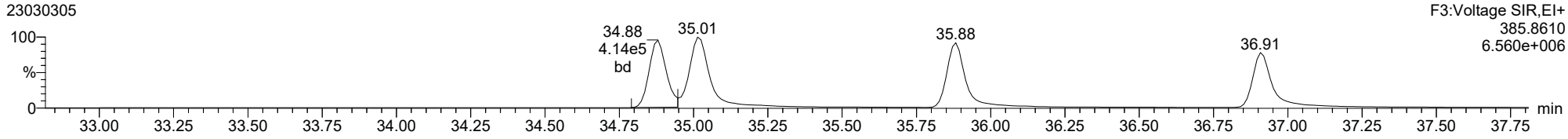

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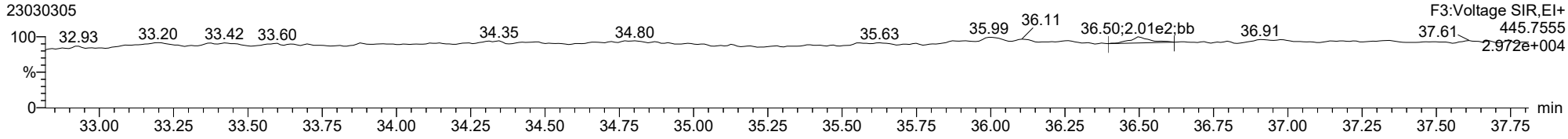

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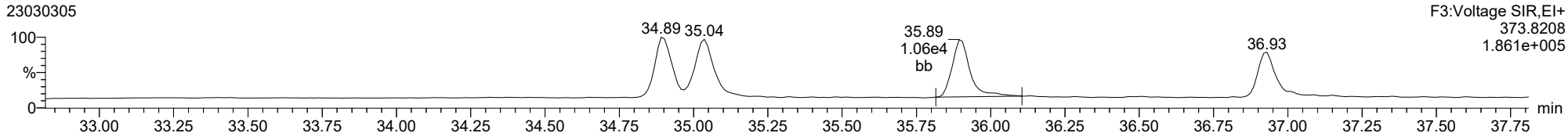
234678-HxCDF



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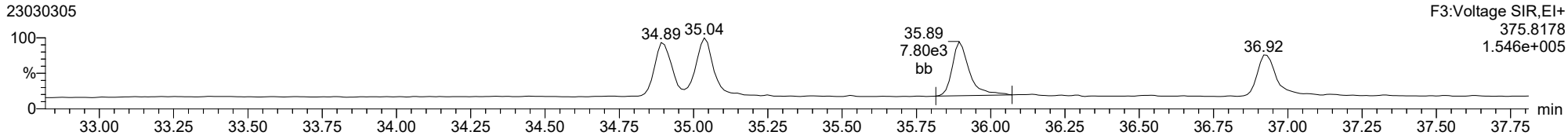

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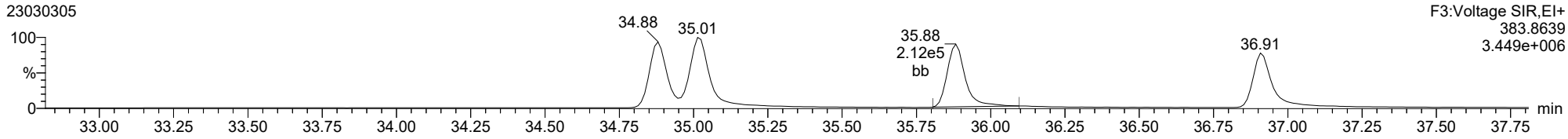

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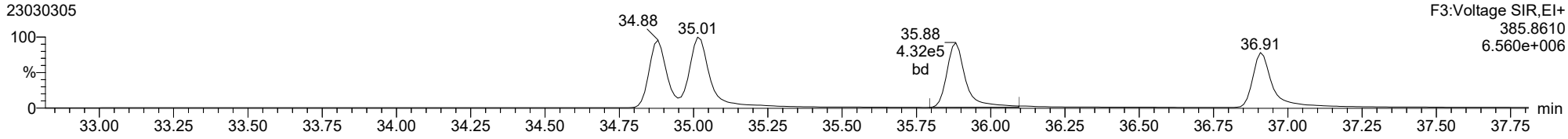

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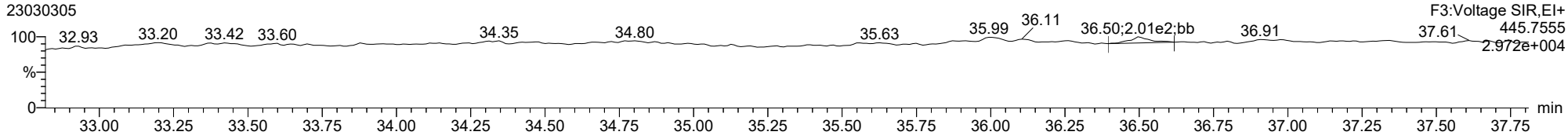

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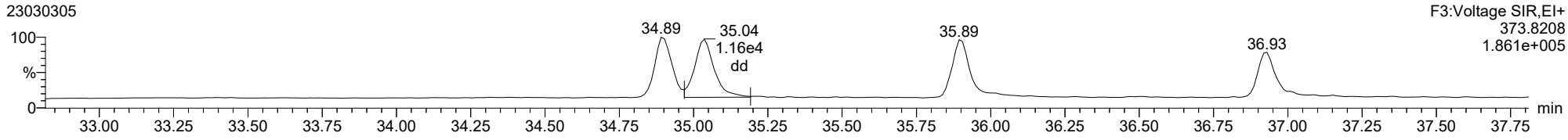

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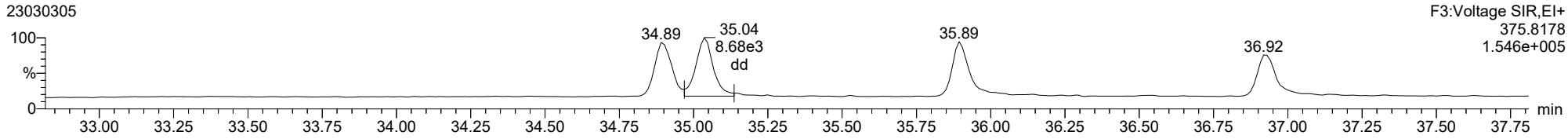

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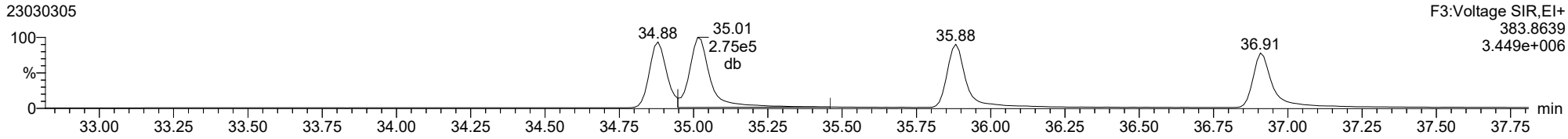

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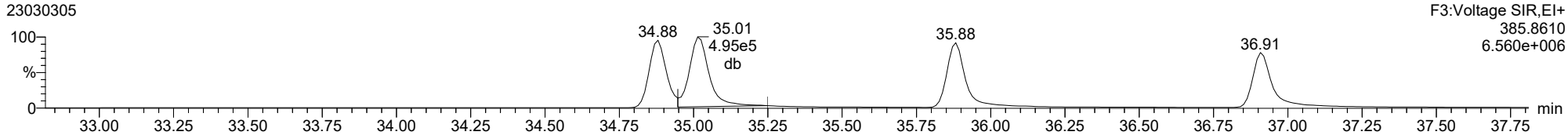
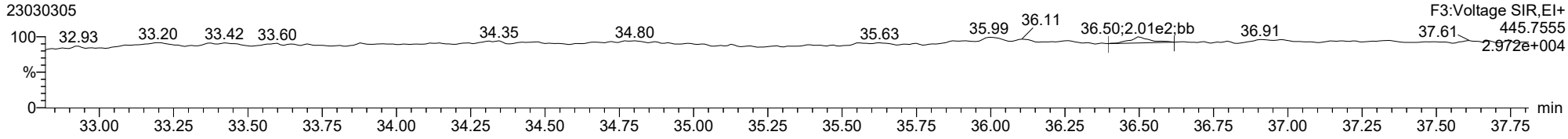


FUNCTION3 OCDPE



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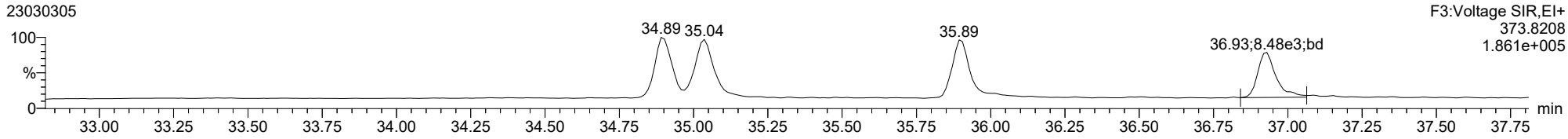

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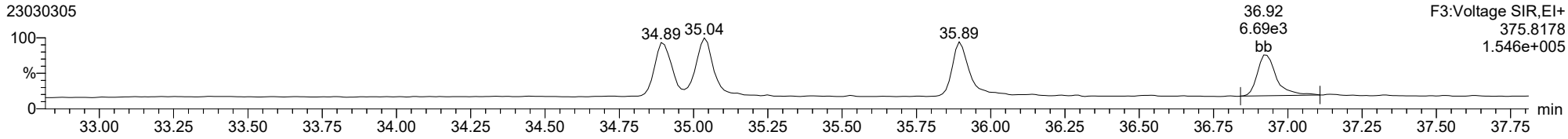

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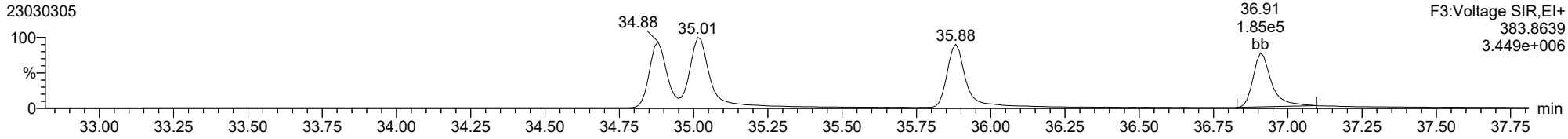

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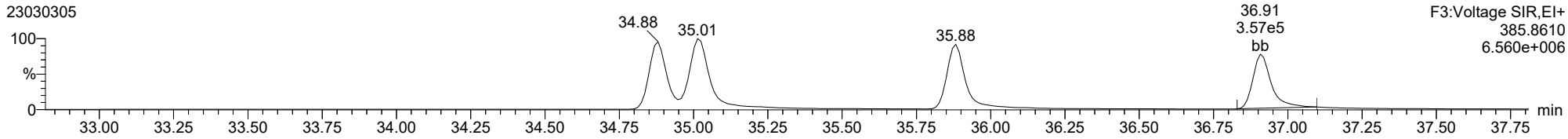
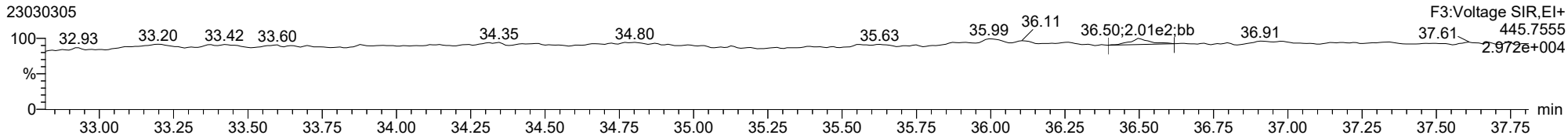


FUNCTION3 OCDPE



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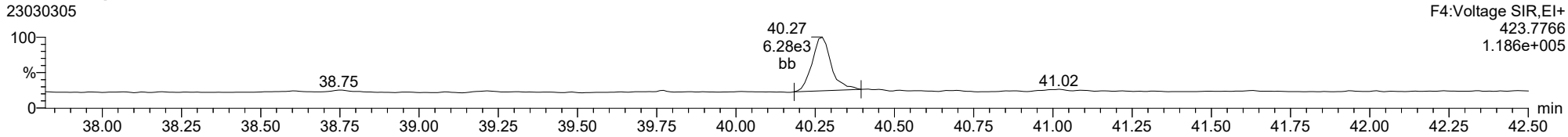

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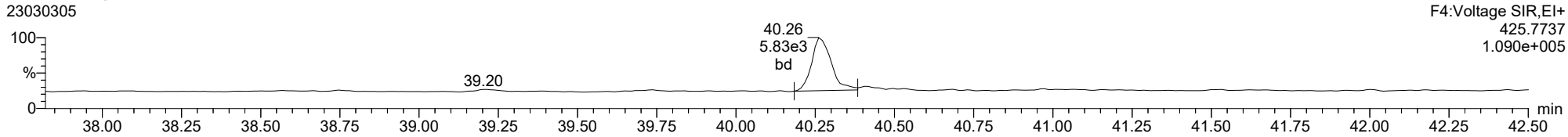

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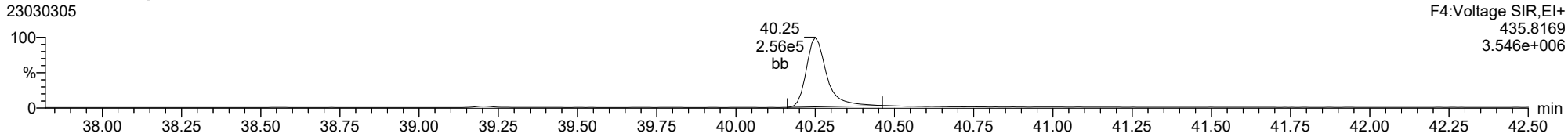

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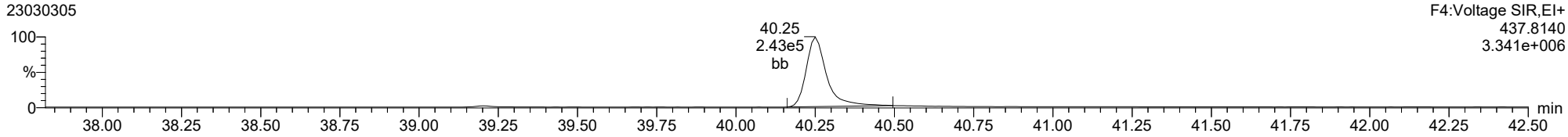
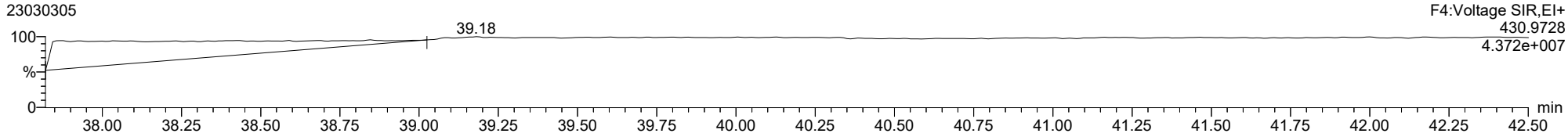


FUNCTION4 PFK



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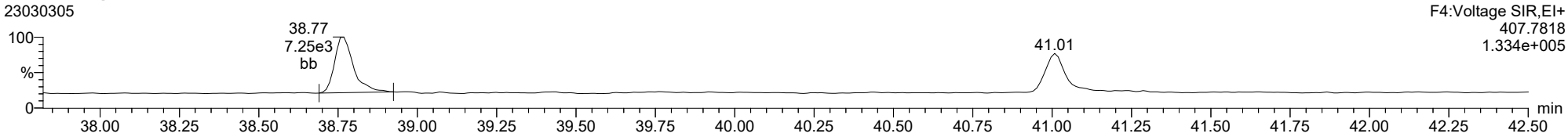

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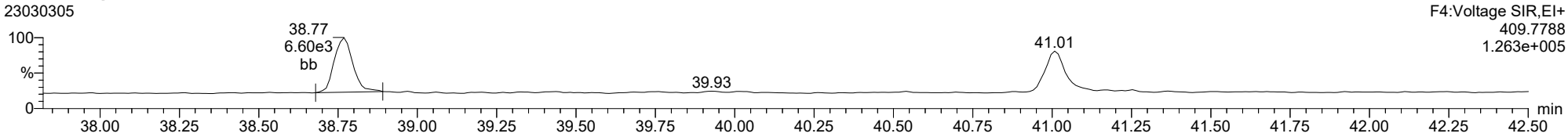

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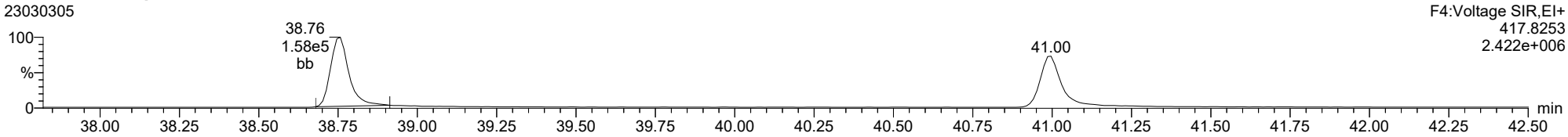

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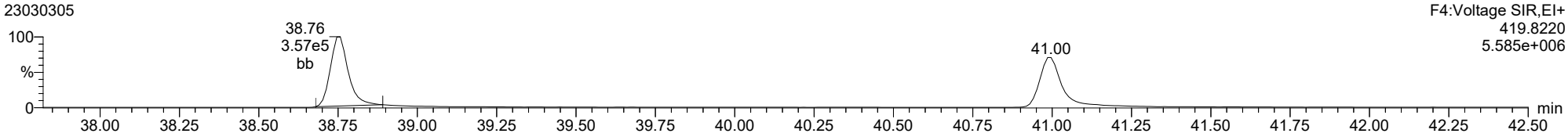

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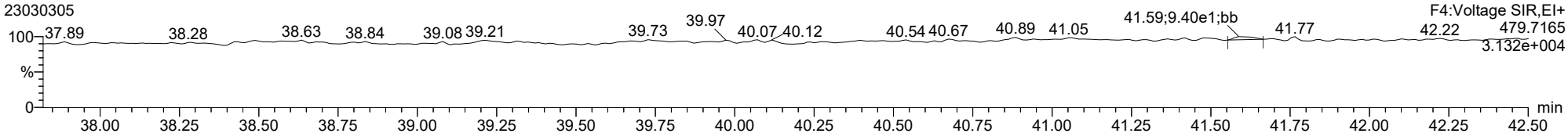

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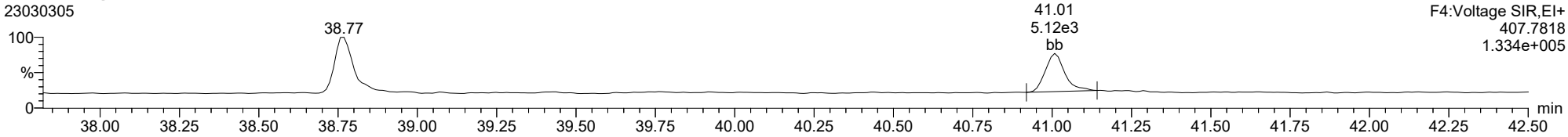

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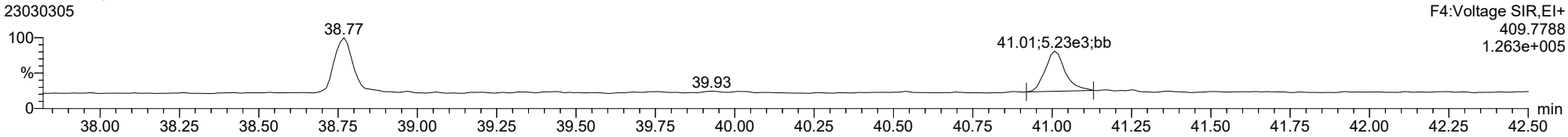

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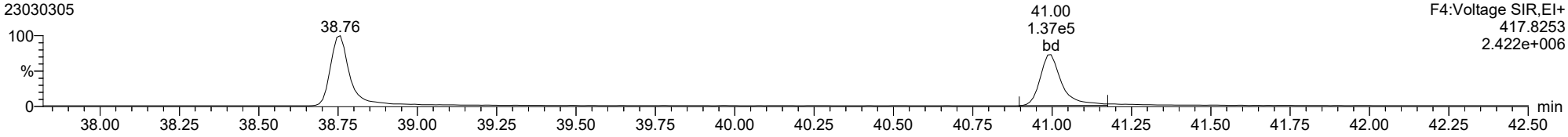

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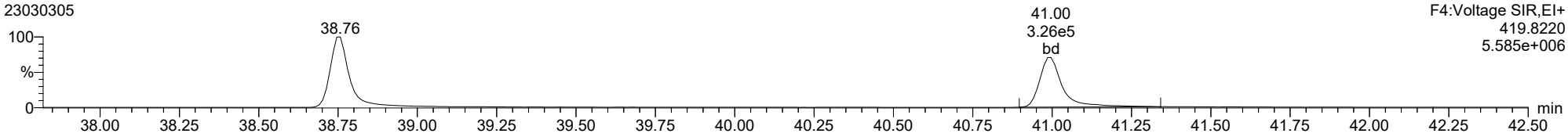
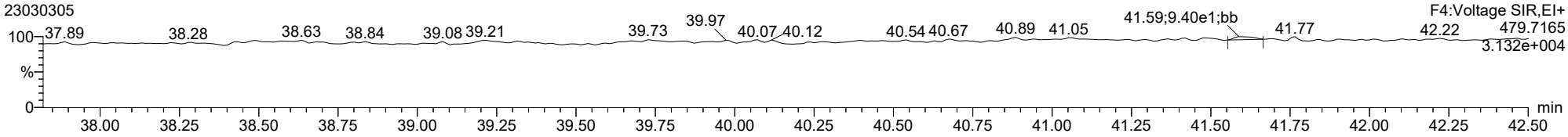


FUNCTION4 NCDPE



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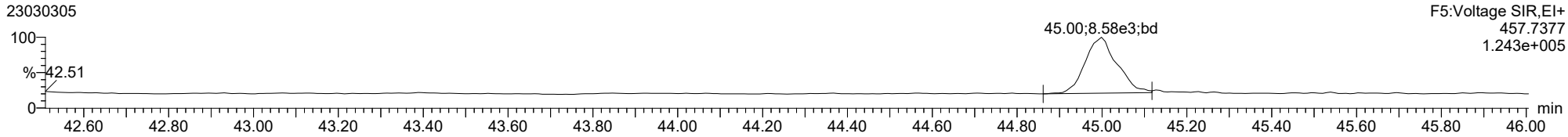

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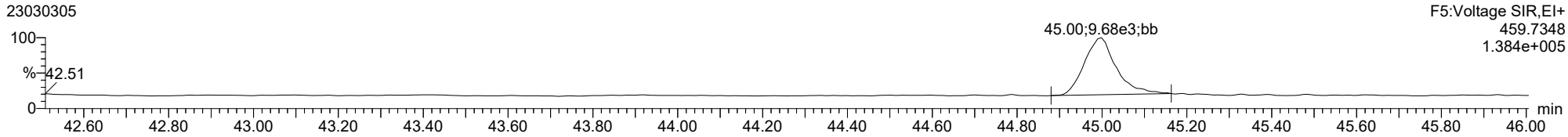

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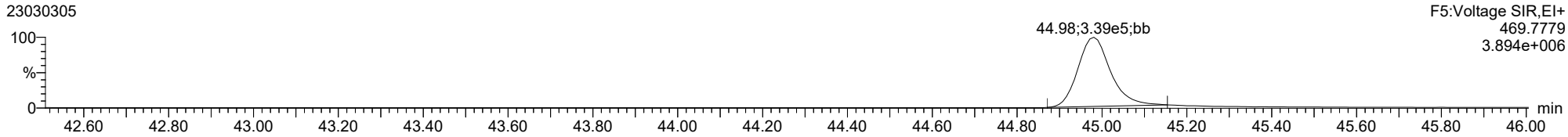

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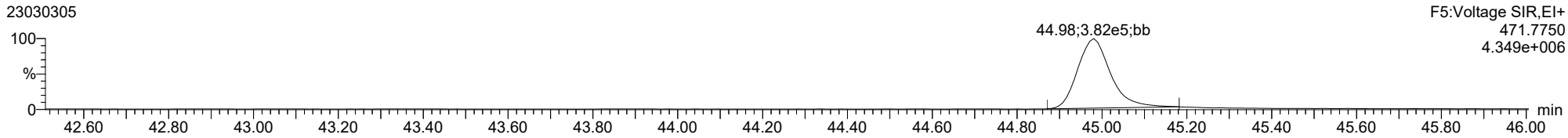
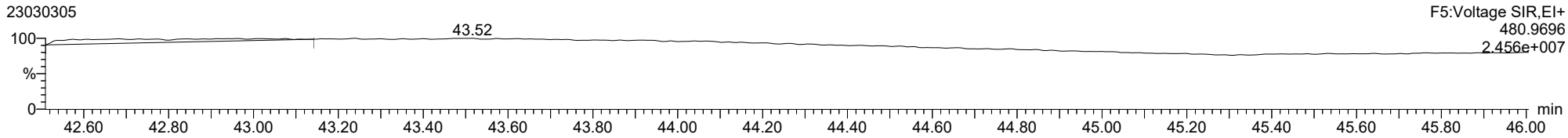


FUNCTION5 PFK



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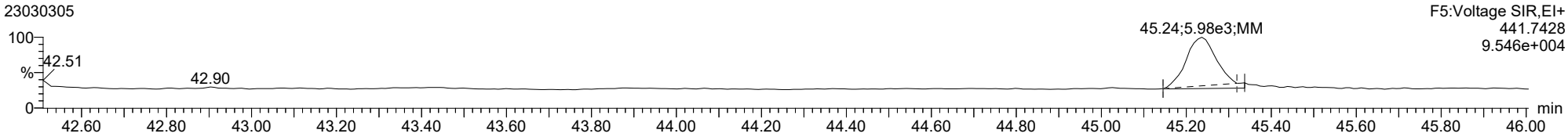

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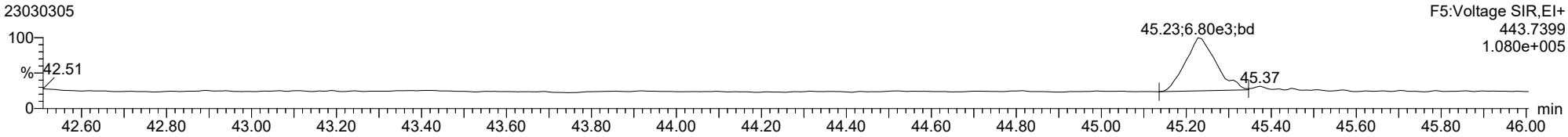
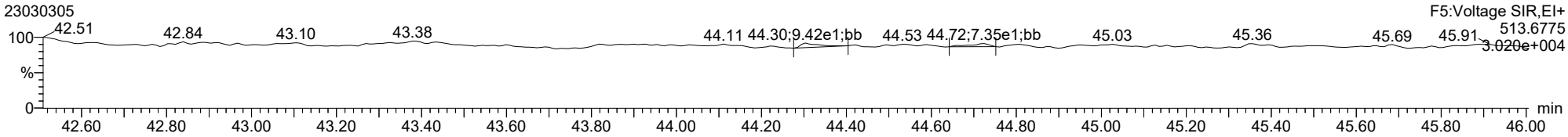


FUNCTION5 DCDPE



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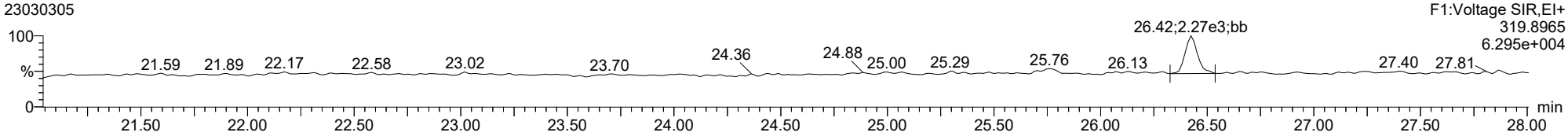
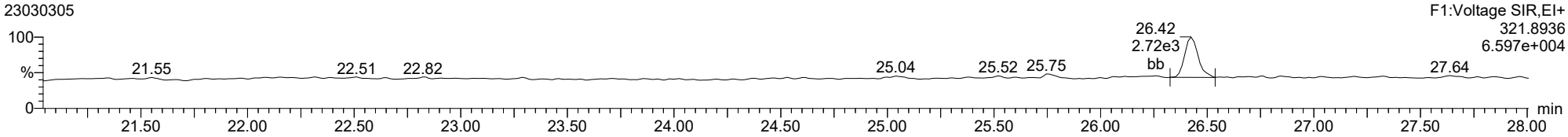
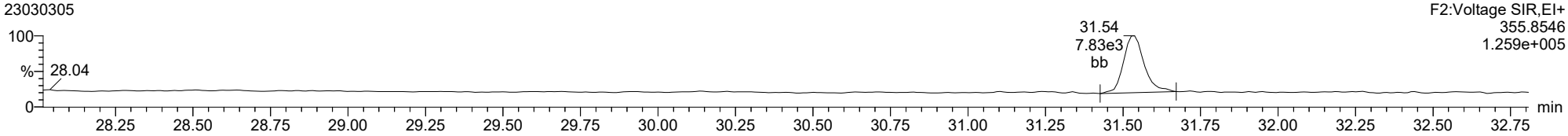


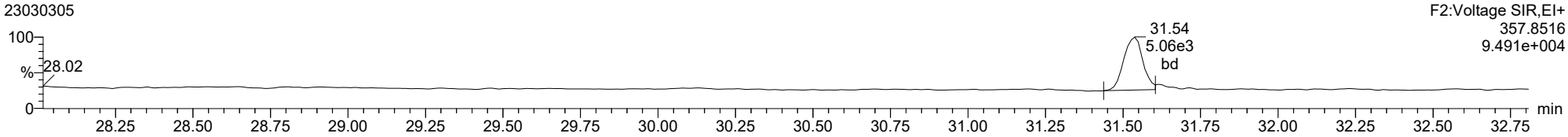
Total-tetradioxins



Total-pentadioxins



Total-pentadioxins



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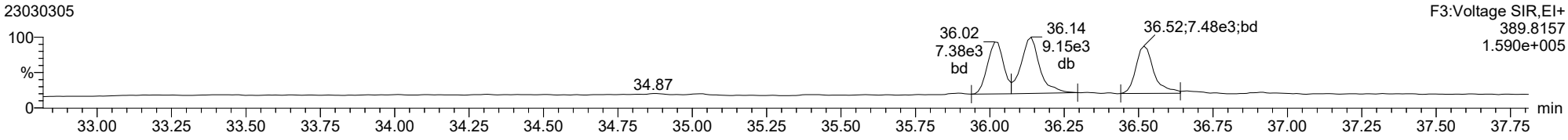
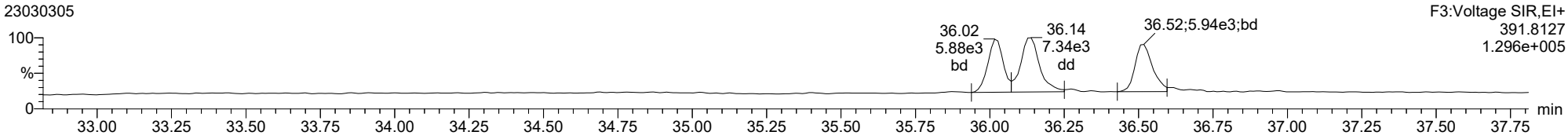
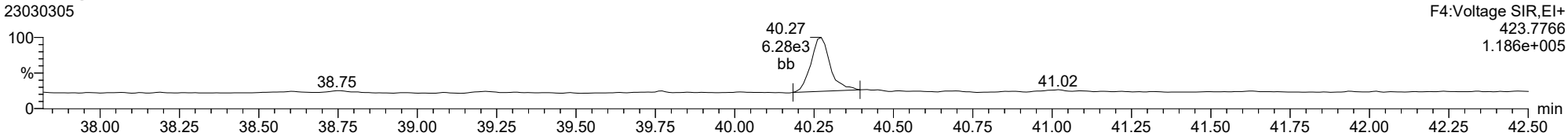
Total-hexadioxins



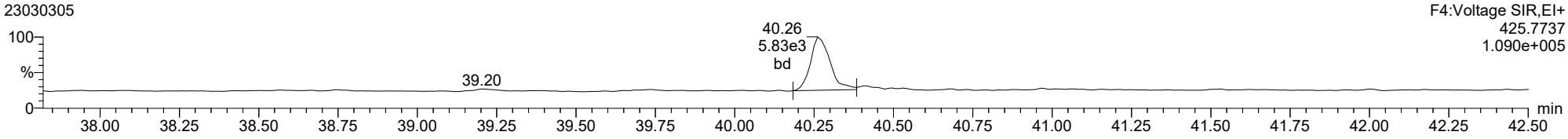
Total-hexadioxins



Total-heptadioxins



Total-heptadioxins



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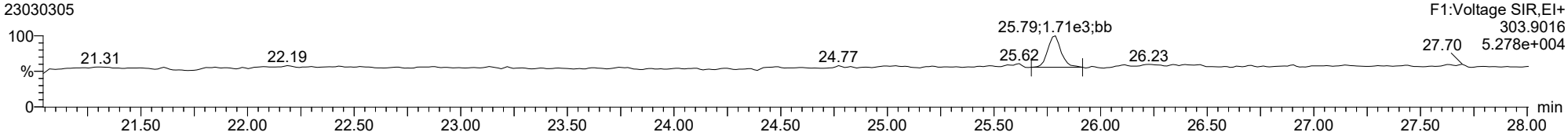
Total-tetrafurans



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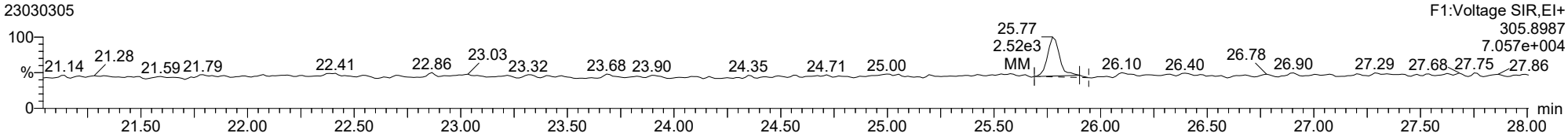

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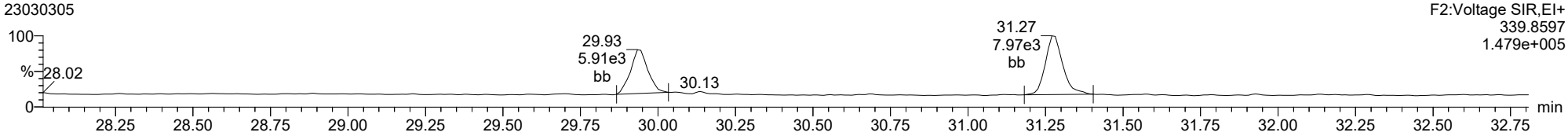

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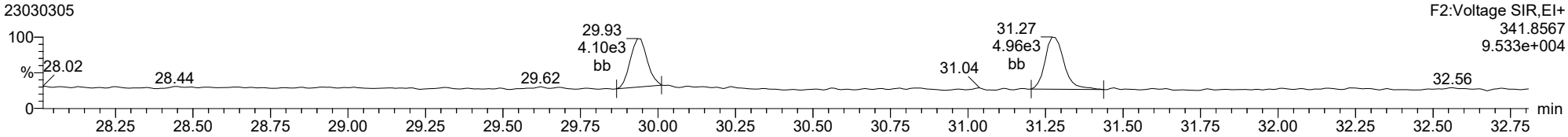

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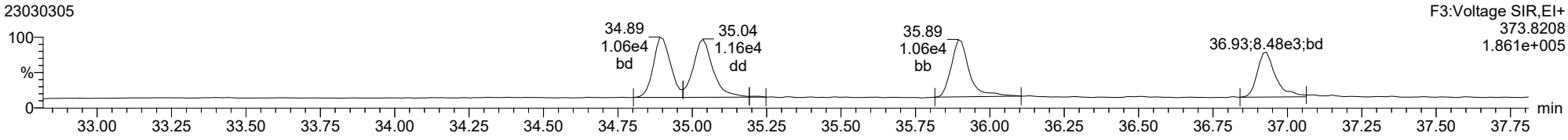
Total-hexafurans



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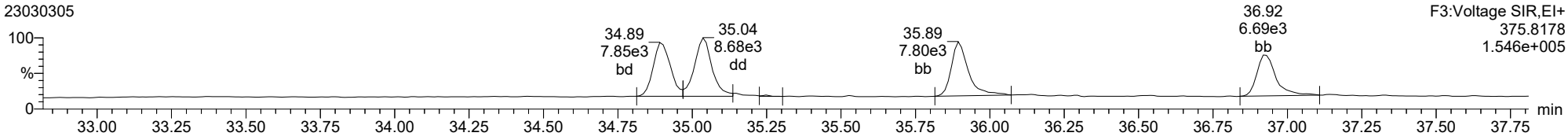

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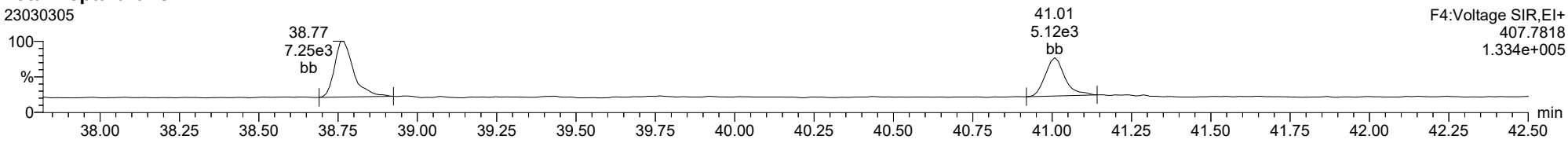
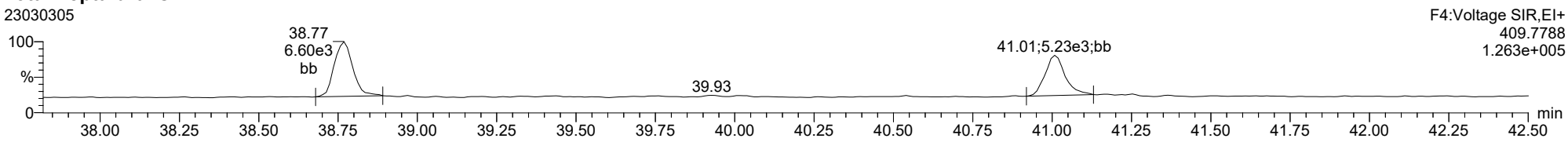


Total-heptafurans



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Last Altered: Monday, March 06, 2023 10:57:27 Pacific Standard Time
Printed: Monday, March 06, 2023 11:34:24 Pacific Standard Time

Method: T:\Autospec\Methods\Dioxin230303.mdb 03 Mar 2023 14:58:50
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ID: CS2CW, Name: 23030306, Date: 03-Mar-2023, Time: 13:16:24, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	25.789	1.001	8.311e3	1.080e4	0.702	0.769	0.770	1017	2375	1.17e5	1.59e5	114.9	67.2	NO	bd	bb	1.942
12378-PeCDF	29.945	1.001	4.669e4	2.820e4	0.679	1.656	1.550	1114	1452	6.51e5	4.26e5	583.9	293.2	NO	bd	bb	10.465
23478-PeCDF	31.282	1.000	4.676e4	2.892e4	0.786	1.617	1.550	1114	1452	6.63e5	4.21e5	595.0	289.8	NO	bb	bb	10.293
123478-HxCDF	34.903	1.000	5.097e4	3.855e4	1.166	1.322	1.240	1081	974	7.67e5	5.88e5	709.2	604.2	NO	bd	bd	9.861
234678-HxCDF	35.906	1.000	4.287e4	3.364e4	1.140	1.274	1.240	1081	974	6.16e5	4.95e5	570.0	508.0	NO	bd	bb	10.523
123678-HxCDF	35.048	1.001	5.830e4	4.380e4	1.091	1.331	1.240	1081	974	7.78e5	6.16e5	719.4	632.0	NO	dd	db	10.775
123789-HxCDF	36.942	1.001	3.050e4	2.273e4	1.137	1.342	1.240	1081	974	4.14e5	3.24e5	383.3	332.2	NO	bb	bb	9.945
1234678-HpCDF	38.780	1.001	2.871e4	2.660e4	1.003	1.079	1.050	1234	1299	4.33e5	4.29e5	350.5	330.3	NO	bd	bb	10.087
1234789-HpCDF	41.020	1.000	2.198e4	2.032e4	0.953	1.082	1.050	1234	1299	3.09e5	2.76e5	250.5	212.3	NO	bb	bb	10.556
OCDF	45.247	1.006	3.160e4	3.327e4	0.778	0.950	0.890	832	1108	3.53e5	3.88e5	424.8	350.5	NO	bd	bb	19.690
2378-TCDD	26.438	1.001	9.033e3	1.299e4	1.149	0.696	0.770	1078	937	1.34e5	1.84e5	124.1	196.6	NO	bb	bb	2.068
12378-PeCDD	31.538	1.000	4.287e4	2.877e4	1.022	1.490	1.550	1012	882	6.26e5	3.88e5	618.4	440.6	NO	bb	bb	9.981
123478-HxCDD	36.028	1.001	3.011e4	2.566e4	0.996	1.173	1.240	1087	1355	4.81e5	4.17e5	442.1	307.5	NO	bd	bd	9.781
123678-HxCDD	36.140	1.000	3.660e4	2.810e4	1.001	1.303	1.240	1087	1355	5.13e5	3.98e5	471.9	293.4	NO	dd	db	9.830
123789-HxCDD	36.530	1.011	2.694e4	2.285e4	0.907	1.179	1.240	1087	1355	3.87e5	3.22e5	355.7	237.4	NO	bb	bb	8.921
1234678-HpCDD	40.273	1.000	2.448e4	2.664e4	1.039	0.919	1.050	853	881	3.43e5	3.58e5	402.1	405.9	NO	bb	bd	10.011
OCDD	45.009	1.000	3.531e4	4.015e4	0.920	0.879	0.890	1050	1012	4.08e5	4.99e5	388.3	492.6	NO	bb	bb	19.363
13C-2378-TCDF	25.774	1.007	6.035e5	7.993e5	1.620	0.755	0.770	2457	1835	8.64e6	1.14e7	3516.1	6186.3	NO	bb	bb	103.115
13C-12378-PeCDF	29.923	1.169	6.526e5	4.010e5	1.240	1.628	1.550	3002	2090	8.73e6	5.82e6	2907.1	2783.7	NO	bb	bb	101.148
13C-23478-PeCDF	31.271	1.221	5.554e5	3.799e5	1.118	1.462	1.550	3002	2090	8.01e6	5.41e6	2667.8	2586.4	NO	bb	bb	99.644
13C-123478-HxCDF	34.892	0.956	2.641e5	5.144e5	1.168	0.513	0.510	1857	2488	3.90e6	7.62e6	2100.8	3063.0	NO	bd	bd	129.584
13C-123678-HxCDF	35.026	0.959	2.932e5	5.755e5	1.386	0.510	0.510	1857	2488	4.18e6	8.13e6	2249.4	3269.5	NO	db	db	121.832
13C-234678-HxCDF	35.895	0.983	2.180e5	4.199e5	1.129	0.519	0.510	1857	2488	3.14e6	6.08e6	1689.2	2442.9	NO	bb	bb	109.838
13C-123789-HxCDF	36.920	1.011	1.570e5	3.137e5	0.932	0.501	0.510	1857	2488	2.29e6	4.45e6	1232.1	1790.1	NO	bb	bb	98.225
13C-1234678-HpCDF	38.758	1.062	1.644e5	3.823e5	0.895	0.430	0.440	2012	3375	2.57e6	5.95e6	1277.0	1763.6	NO	bb	bb	118.766
13C-1234789-HpCDF	40.998	1.123	1.271e5	2.934e5	0.770	0.433	0.440	2012	3375	1.71e6	4.02e6	850.7	1191.4	NO	bb	bb	106.228
13C-1234-TCDD	25.605	0.000	3.763e5	4.634e5	1.000	0.812	0.770	2552	2183	5.75e6	7.05e6	2254.8	3231.1	NO	bb	bb	100.000
13C-2378-TCDD	26.410	1.031	4.085e5	5.183e5	1.152	0.788	0.770	2552	2183	5.98e6	7.56e6	2342.4	3461.2	NO	bb	bb	95.779
13C-12378-PeCDD	31.527	1.231	4.337e5	2.688e5	0.829	1.614	1.550	1077	1542	6.15e6	3.74e6	5715.6	2425.2	NO	bb	bb	100.933
13C-123478-HxCDD	36.006	0.986	3.223e5	2.505e5	0.995	1.287	1.240	2237	1883	4.87e6	3.76e6	2175.2	1999.6	NO	bd	bd	111.924
13C-123678-HxCDD	36.129	0.990	3.608e5	2.967e5	1.157	1.216	1.240	2237	1883	5.10e6	4.02e6	2277.5	2137.4	NO	db	db	110.547
13C-1234678-HpCDD	40.262	1.103	2.573e5	2.341e5	0.840	1.099	1.050	2349	1481	3.41e6	3.22e6	1450.8	2172.3	NO	bd	bb	113.737
13C-OCDD	44.991	1.232	4.017e5	4.455e5	0.767	0.902	0.890	2278	1800	4.53e6	5.05e6	1990.6	2807.7	NO	bb	bb	214.651
13C-123789-HxCDD	36.507	0.000	2.902e5	2.240e5	1.000	1.296	1.240	2237	1883	4.20e6	3.27e6	1878.6	1737.5	NO	bb	bb	100.000
37CL-2378-TCDD	26.424	1.032	1.977e4		1.288			2484		2.93e5		117.9			bb		1.828

Dataset: T:\Autospec\Processed Data Batch\230303ICIH.qld
Last Altered: Monday, March 06, 2023 10:57:27 Pacific Standard Time
Printed: Monday, March 06, 2023 11:34:24 Pacific Standard Time

ID: CS2CW, Name: 23030306, Date: 03-Mar-2023, Time: 13:16:24, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF					0.802		0.770	1017	2375								
1289-TCDF					0.678		0.770	1017	2375								
13468-PECDF					1.246		1.550	633	1159								
12389-PECDF					0.496		1.550	1114	1452								
123468-HXCDF					1.169		1.240	1081	974								
1368-TCDD					1.015		0.770	1078	937								
1289-TCDD					0.909		0.770	1078	937								
12479-PECDD					2.301		1.550	1012	882								
12389-PECDD					1.184		1.550	1012	882								
124679-HXCDD					1.115		1.240	1087	1355								
1234679-HPCDD					1.137		1.050	853	881								
Total-tetrafurans			8.311e3		0.727			1017		1.17e5							1.942
Total-penta1			0.000e0					633		0.00e0							
Total-pentafurans			9.345e4		0.654			1114		1.31e6							20.758
Total-hexafurans			1.826e5		1.141			1081		2.58e6							41.105
Total-heptafurans			5.070e4		0.978			1234		7.42e5							20.643
Total-Furans			3.667e5		0.922			1017		5.10e6							104.140
Total-tetradioxins			9.033e3		1.024			1078		1.34e5							2.068
Total-pentadioxins			4.287e4		1.502			1012		6.26e5							9.981
Total-hexadioxins			9.364e4		1.005			1087		1.38e6							28.532
Total-heptadioxins			2.448e4		1.088			853		3.43e5							10.011
Total-Dioxins			2.053e5		1.130			1078		2.89e6							69.955
Total-TEQ			5.720e5					1078		7.99e6							174.095
FUNCTION1 PFK			1.995e6					567717		7.69e6							
FUNCTION2 PFK			1.258e5					282093		4.74e6							0.000
FUNCTION3 PFK			4.711e7					382868		3.34e7							0.000
FUNCTION4 PFK			2.092e7					278389		1.32e7							
FUNCTION5 PFK			6.777e4					239180		2.68e6							
FUNCTION1 HXCD...			0.000e0					613		0.00e0							
FUNCTION1 HPCD...																	
FUNCTION2 HPCD...			1.408e2					965		2.85e3							0.000
FUNCTION3 OCDPE			0.000e0					571		0.00e0							
FUNCTION4 NCDPE			3.810e2					638		4.39e3							0.000
FUNCTION5 DCDPE			0.000e0					603		0.00e0							

Method: T:\Autospec\Methods\Dioxin230303.mdb 03 Mar 2023 14:58:50
Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 10:57:27

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TF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	25.79	8.311e3	1.080e4	0.702	0.77	0.77	114.9	YES	NO	bd	bb	1.942

PP

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

PF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	23478-PeCDF	31.28	4.676e4	2.892e4	0.786	1.62	1.55	595.0	YES	NO	bb	bb	10.293
2	12378-PeCDF	29.94	4.669e4	2.820e4	0.679	1.66	1.55	583.9	YES	NO	bd	bb	10.465

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDF	36.94	3.050e4	2.273e4	1.137	1.34	1.24	383.3	YES	NO	bb	bb	9.945
2	234678-HxCDF	35.91	4.287e4	3.364e4	1.140	1.27	1.24	570.0	YES	NO	bd	bb	10.523
3	123678-HxCDF	35.05	5.830e4	4.380e4	1.091	1.33	1.24	719.4	YES	NO	dd	db	10.775
4	123478-HxCDF	34.90	5.097e4	3.855e4	1.166	1.32	1.24	709.2	YES	NO	bd	bd	9.861

HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234789-HpCDF	41.02	2.198e4	2.032e4	0.953	1.08	1.05	250.5	YES	NO	bb	bb	10.556
2	1234678-HpCDF	38.78	2.871e4	2.660e4	1.003	1.08	1.05	350.5	YES	NO	bd	bb	10.087

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Furans,TF,PP,PF,HF,HPF,OF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	23478-PeCDF	31.28	4.676e4	2.892e4	0.786	1.62	1.55	595.0	YES	NO	bb	bb	10.293
2	12378-PeCDF	29.94	4.669e4	2.820e4	0.679	1.66	1.55	583.9	YES	NO	bd	bb	10.465
3	2378-TCDF	25.79	8.311e3	1.080e4	0.702	0.77	0.77	114.9	YES	NO	bd	bb	1.942
4	123789-HxCDF	36.94	3.050e4	2.273e4	1.137	1.34	1.24	383.3	YES	NO	bb	bb	9.945
5	234678-HxCDF	35.91	4.287e4	3.364e4	1.140	1.27	1.24	570.0	YES	NO	bd	bb	10.523
6	123678-HxCDF	35.05	5.830e4	4.380e4	1.091	1.33	1.24	719.4	YES	NO	dd	db	10.775
7	123478-HxCDF	34.90	5.097e4	3.855e4	1.166	1.32	1.24	709.2	YES	NO	bd	bd	9.861
8	1234789-HpCDF	41.02	2.198e4	2.032e4	0.953	1.08	1.05	250.5	YES	NO	bb	bb	10.556
9	1234678-HpCDF	38.78	2.871e4	2.660e4	1.003	1.08	1.05	350.5	YES	NO	bd	bb	10.087
10	OCDF	45.25	3.160e4	3.327e4	0.778	0.95	0.89	424.8	YES	NO	bd	bb	19.690

TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDD	26.44	9.033e3	1.299e4	1.149	0.70	0.77	124.1	YES	NO	bb	bb	2.068

PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12378-PeCDD	31.54	4.287e4	2.877e4	1.022	1.49	1.55	618.4	YES	NO	bb	bb	9.981

HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDD	36.53	2.694e4	2.285e4	0.907	1.18	1.24	355.7	YES	NO	bb	bb	8.921
2	123678-HxCDD	36.14	3.660e4	2.810e4	1.001	1.30	1.24	471.9	YES	NO	dd	db	9.830
3	123478-HxCDD	36.03	3.011e4	2.566e4	0.996	1.17	1.24	442.1	YES	NO	bd	bd	9.781

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	40.27	2.448e4	2.664e4	1.039	0.92	1.05	402.1	YES	NO	bb	bd	10.011

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Dioxins,TD,PD,HD,HPD,OD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12378-PeCDD	31.54	4.287e4	2.877e4	1.022	1.49	1.55	618.4	YES	NO	bb	bb	9.981
2	2378-TCDD	26.44	9.033e3	1.299e4	1.149	0.70	0.77	124.1	YES	NO	bb	bb	2.068
3	123789-HxCDD	36.53	2.694e4	2.285e4	0.907	1.18	1.24	355.7	YES	NO	bb	bb	8.921
4	123678-HxCDD	36.14	3.660e4	2.810e4	1.001	1.30	1.24	471.9	YES	NO	dd	db	9.830
5	123478-HxCDD	36.03	3.011e4	2.566e4	0.996	1.17	1.24	442.1	YES	NO	bd	bd	9.781
6	1234678-HpCDD	40.27	2.448e4	2.664e4	1.039	0.92	1.05	402.1	YES	NO	bb	bd	10.011
7	OCDD	45.01	3.531e4	4.015e4	0.920	0.88	0.89	388.3	YES	NO	bb	bb	19.363

TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	23478-PeCDF	31.28	4.676e4	2.892e4	0.786	1.62	1.55	595.0	YES	NO	bb	bb	10.293
2	12378-PeCDF	29.94	4.669e4	2.820e4	0.679	1.66	1.55	583.9	YES	NO	bd	bb	10.465
3	2378-TCDF	25.79	8.311e3	1.080e4	0.702	0.77	0.77	114.9	YES	NO	bd	bb	1.942
4	123789-HxCDF	36.94	3.050e4	2.273e4	1.137	1.34	1.24	383.3	YES	NO	bb	bb	9.945
5	234678-HxCDF	35.91	4.287e4	3.364e4	1.140	1.27	1.24	570.0	YES	NO	bd	bb	10.523
6	123678-HxCDF	35.05	5.830e4	4.380e4	1.091	1.33	1.24	719.4	YES	NO	dd	db	10.775
7	123478-HxCDF	34.90	5.097e4	3.855e4	1.166	1.32	1.24	709.2	YES	NO	bd	bd	9.861
8	1234789-HpCDF	41.02	2.198e4	2.032e4	0.953	1.08	1.05	250.5	YES	NO	bb	bb	10.556
9	1234678-HpCDF	38.78	2.871e4	2.660e4	1.003	1.08	1.05	350.5	YES	NO	bd	bb	10.087
10	OCDF	45.25	3.160e4	3.327e4	0.778	0.95	0.89	424.8	YES	NO	bd	bb	19.690
11	12378-PeCDD	31.54	4.287e4	2.877e4	1.022	1.49	1.55	618.4	YES	NO	bb	bb	9.981
12	2378-TCDD	26.44	9.033e3	1.299e4	1.149	0.70	0.77	124.1	YES	NO	bb	bb	2.068
13	123789-HxCDD	36.53	2.694e4	2.285e4	0.907	1.18	1.24	355.7	YES	NO	bb	bb	8.921
14	123678-HxCDD	36.14	3.660e4	2.810e4	1.001	1.30	1.24	471.9	YES	NO	dd	db	9.830
15	123478-HxCDD	36.03	3.011e4	2.566e4	0.996	1.17	1.24	442.1	YES	NO	bd	bd	9.781
16	1234678-HpCDD	40.27	2.448e4	2.664e4	1.039	0.92	1.05	402.1	YES	NO	bb	bd	10.011
17	OCDD	45.01	3.531e4	4.015e4	0.920	0.88	0.89	388.3	YES	NO	bb	bb	19.363

PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	25.73	8.333e5					6.7	YES		bb		
2	FUNCTION1 PFK	21.10	1.162e6					6.9	YES		bb		

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PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	28.61	1.110e4					1.3	NO		bb		0.000
2	FUNCTION2 PFK	28.31	1.183e4					1.5	NO		bb		0.000
3	FUNCTION2 PFK	31.85	7.066e3					1.3	NO		bb		0.000
4	FUNCTION2 PFK	31.75	1.168e4					1.4	NO		bb		0.000
5	FUNCTION2 PFK	30.95	1.613e4					2.1	NO		bb		0.000
6	FUNCTION2 PFK	30.06	7.806e3					1.3	NO		bb		0.000
7	FUNCTION2 PFK	29.77	1.198e4					1.4	NO		bb		0.000
8	FUNCTION2 PFK	29.47	1.476e4					2.1	NO		bb		0.000
9	FUNCTION2 PFK	29.28	1.360e4					2.0	NO		db		0.000
10	FUNCTION2 PFK	29.22	1.980e4					2.4	NO		bd		0.000

PFK3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	34.30	3.856e7					44.6	YES		db		0.000
2	FUNCTION3 PFK	33.18	8.558e6					42.7	YES		bd		0.000

PFK4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	40.24	1.285e7					8.2	YES		db		
2	FUNCTION4 PFK	38.41	8.070e6					39.3	YES		bd		

PFK5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	42.68	1.647e4					1.8	NO		bb		
2	FUNCTION5 PFK	45.75	3.282e3					1.0	NO		bb		
3	FUNCTION5 PFK	45.28	6.957e3					1.1	NO		bb		
4	FUNCTION5 PFK	44.90	6.364e3					1.0	NO		bb		
5	FUNCTION5 PFK	44.84	1.531e3					0.5	NO		bb		
6	FUNCTION5 PFK	44.40	6.282e3					1.0	NO		bb		
7	FUNCTION5 PFK	44.21	4.626e3					1.1	NO		bb		
8	FUNCTION5 PFK	44.03	7.842e3					1.2	NO		bb		
9	FUNCTION5 PFK	43.96	6.415e3					1.4	NO		bb		
10	FUNCTION5 PFK	43.84	7.992e3					1.2	NO		bb		

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ETHERS1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

ETHERS2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	31.54	1.408e2					3.0	NO		bb		0.000

ETHERS4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

ETHERS5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	40.65	1.069e2					1.9	NO		bb		0.000
2	FUNCTION4 NCDPE	40.25	1.358e2					2.2	NO		bb		0.000
3	FUNCTION4 NCDPE	41.02	1.383e2					2.8	NO		bb		0.000

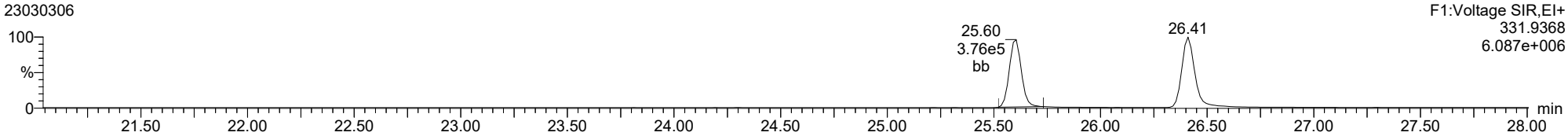
ETHERS6

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

Method: T:\Autospec\Methods\Dioxin230303.mdb 03 Mar 2023 14:58:50
Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 10:57:27

ID: CS2CW, Name: 23030306, Date: 03-Mar-2023, Time: 13:16:24, Conditions: AUTOSPEC01, User: pk

13C-1234-TCDD



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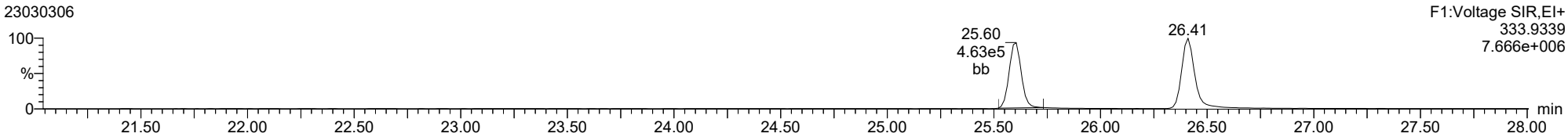
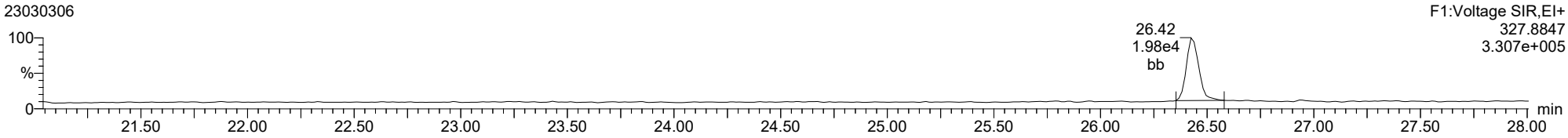


37CL-2378-TCDD



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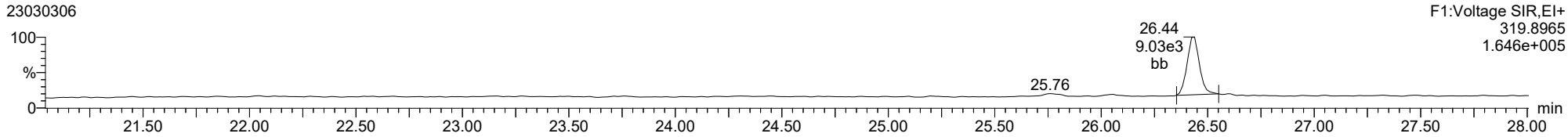

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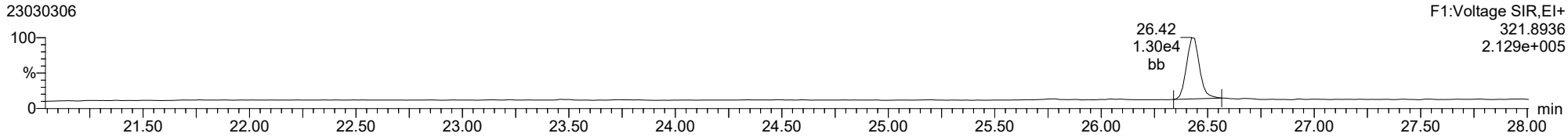

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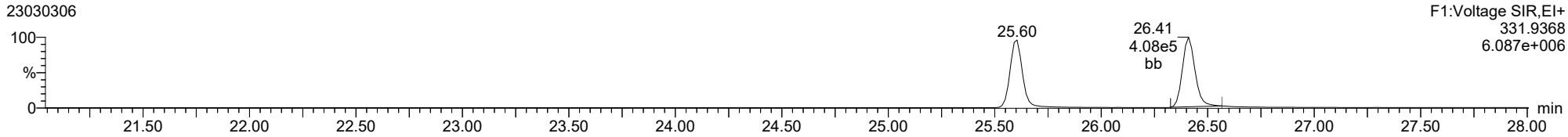

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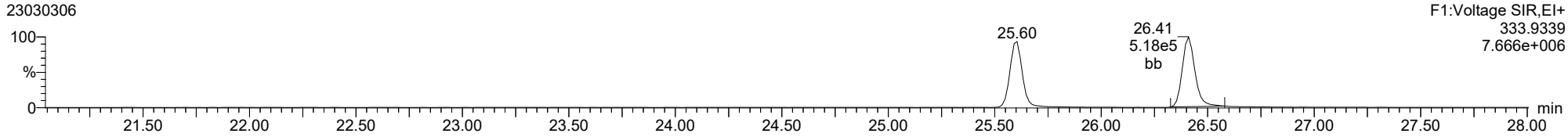

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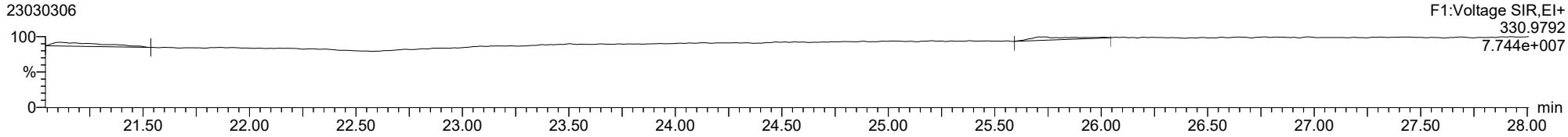

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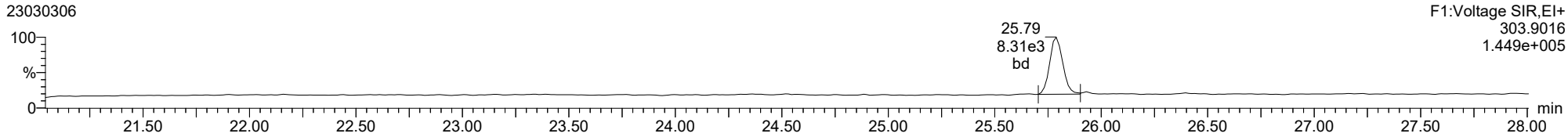

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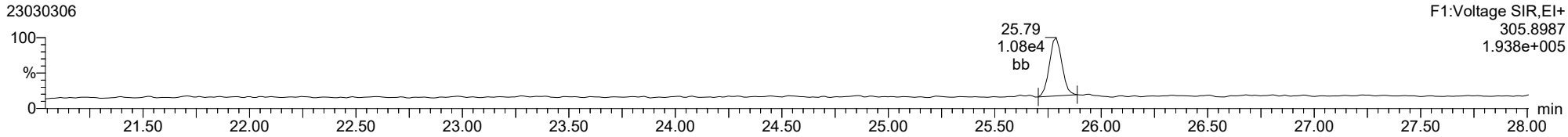

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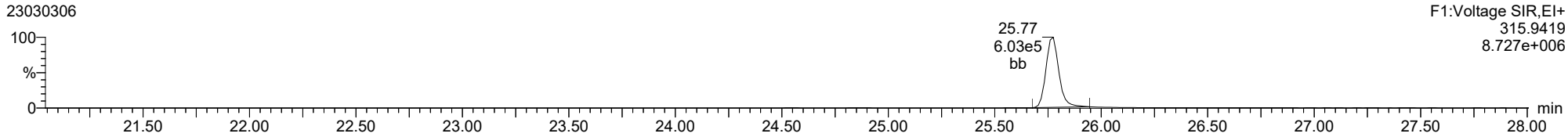

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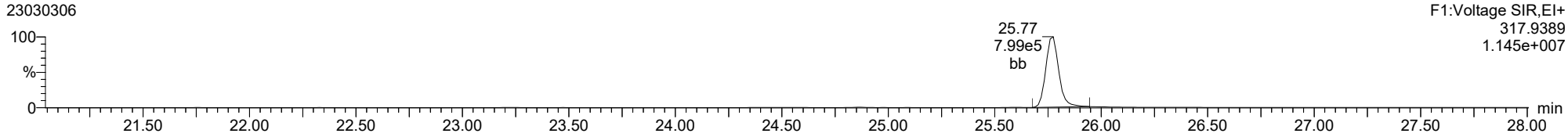

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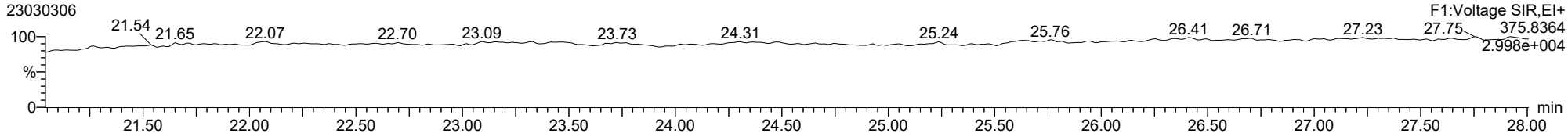

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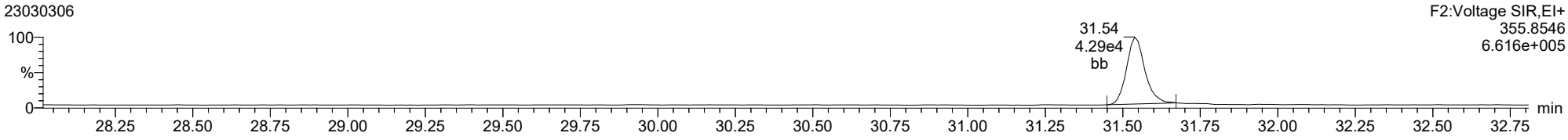
12378-PeCDD



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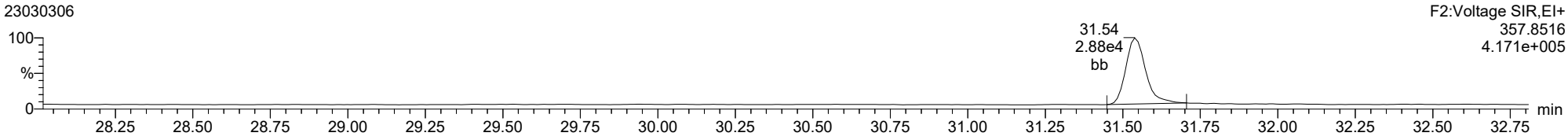

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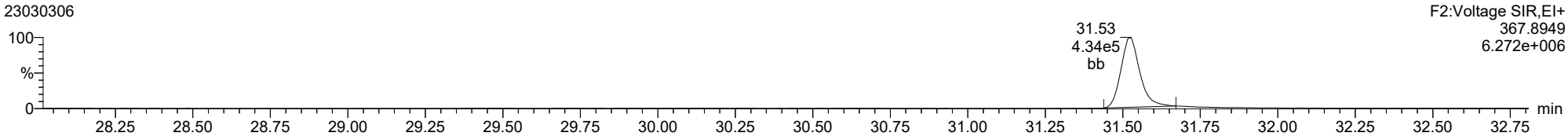

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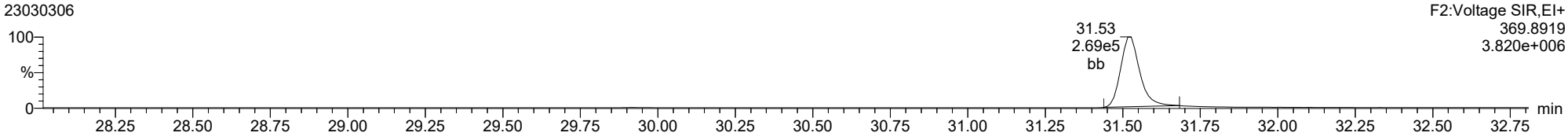

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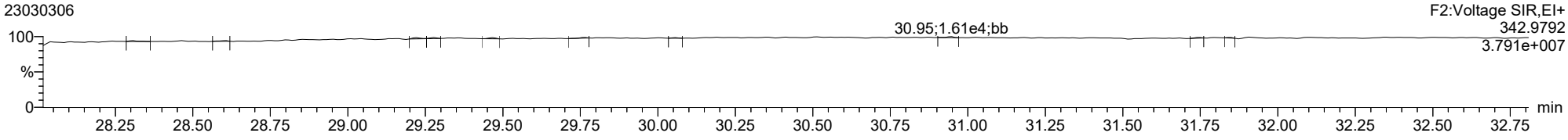

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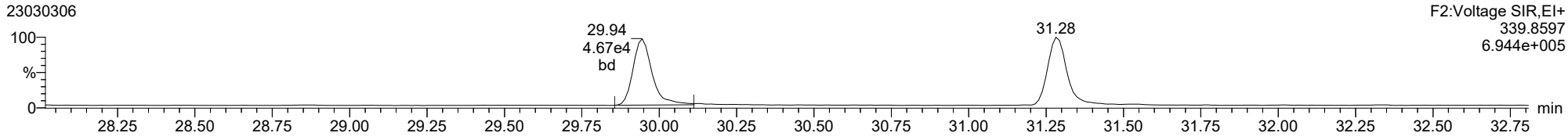

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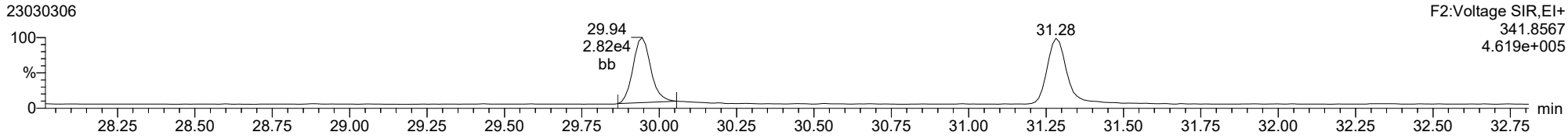

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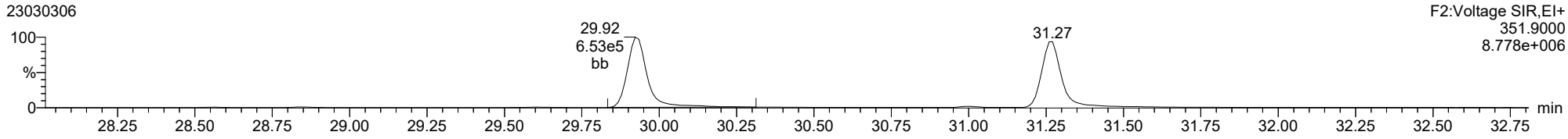

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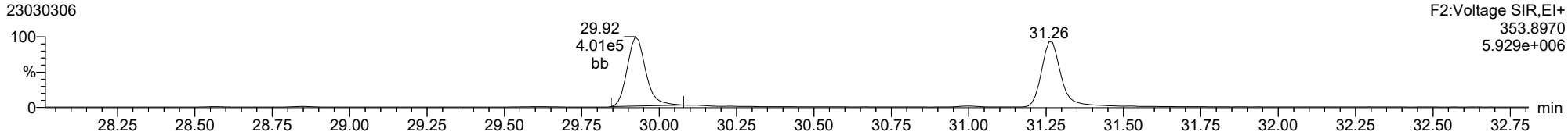

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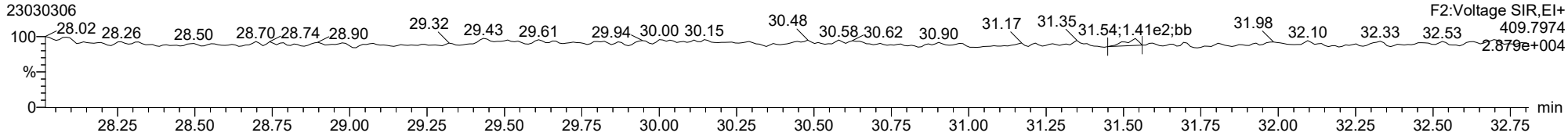

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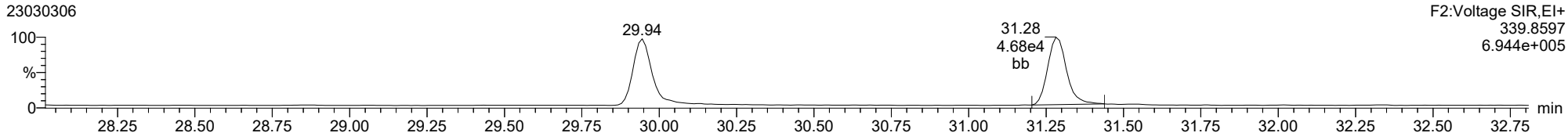

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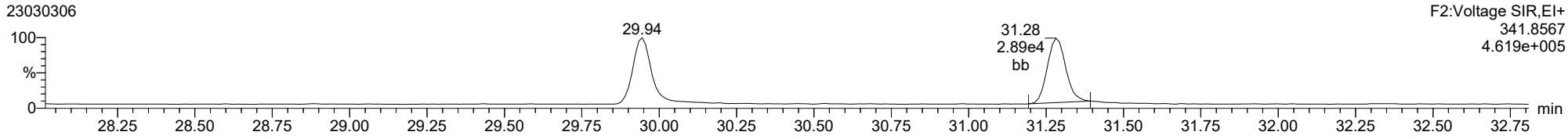

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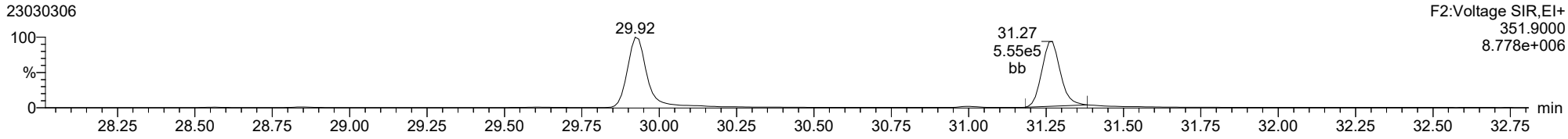

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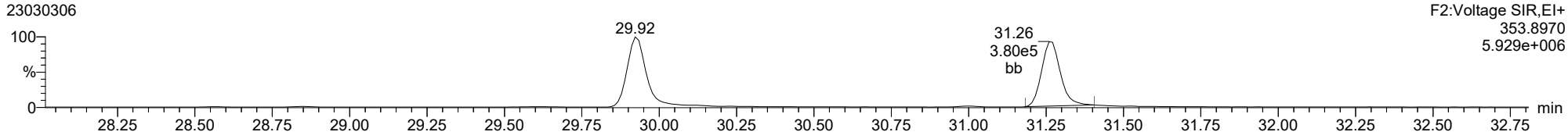

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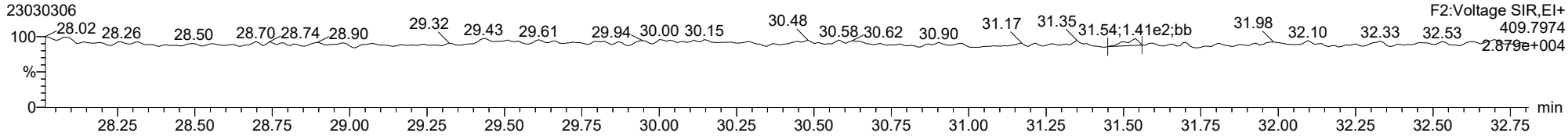

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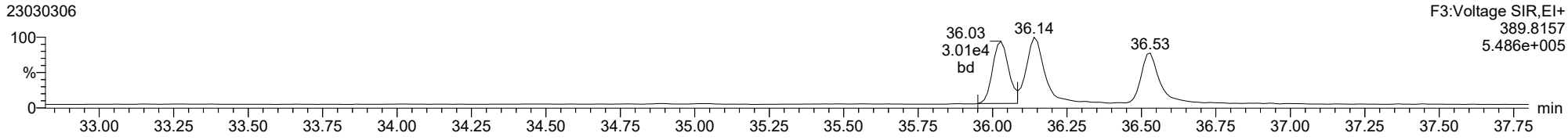

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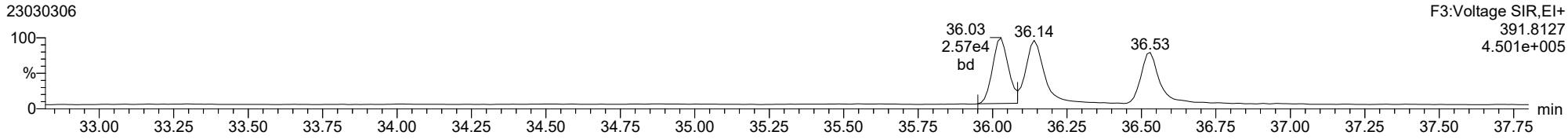

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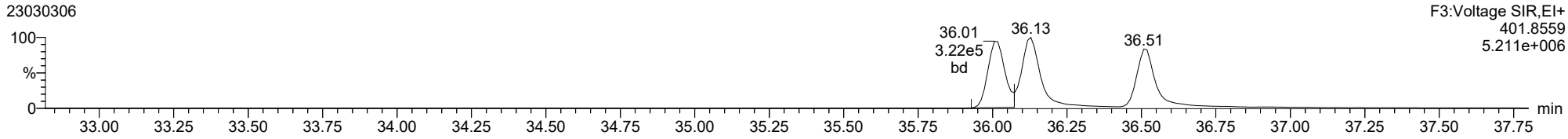

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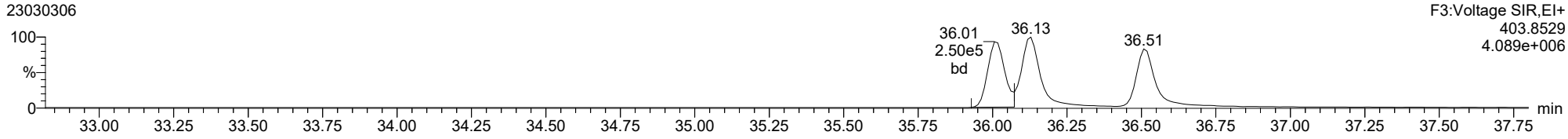

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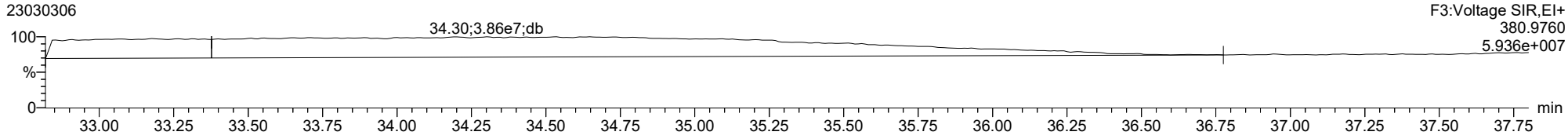

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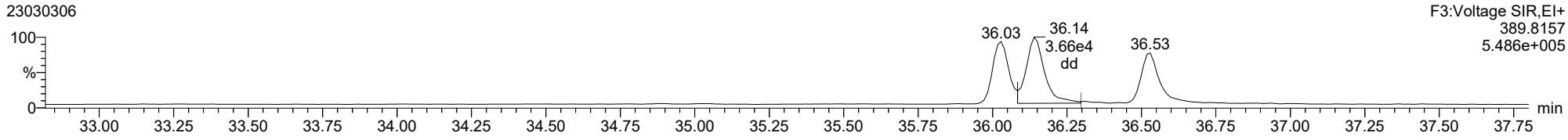

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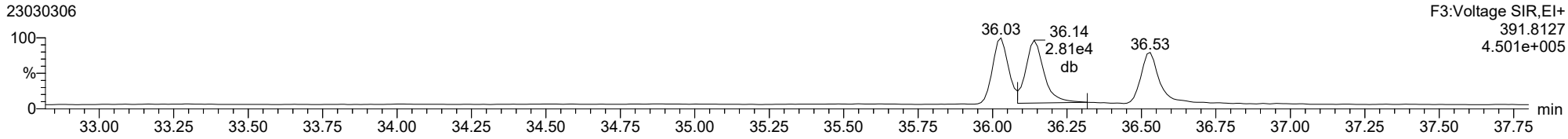

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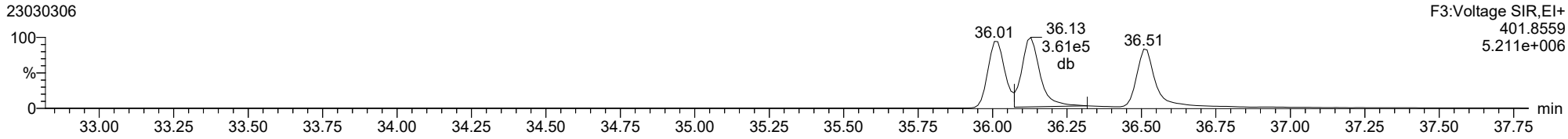

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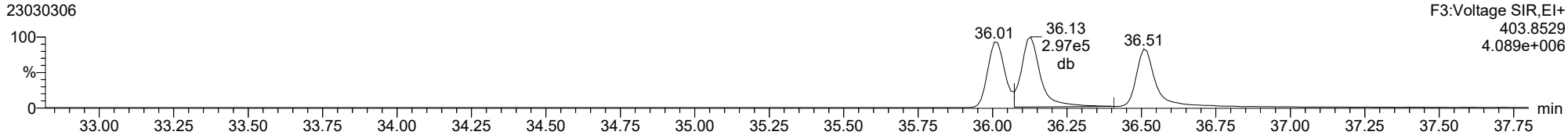

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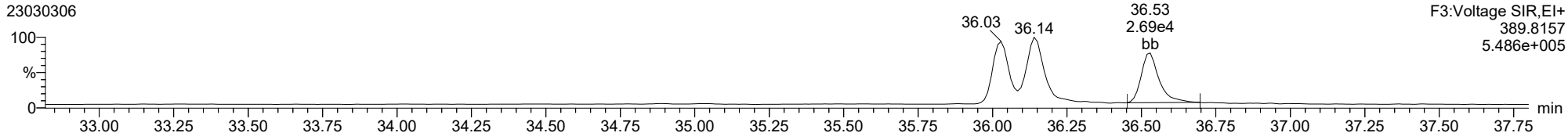

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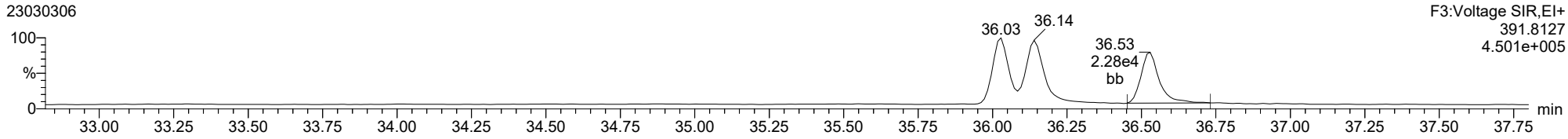

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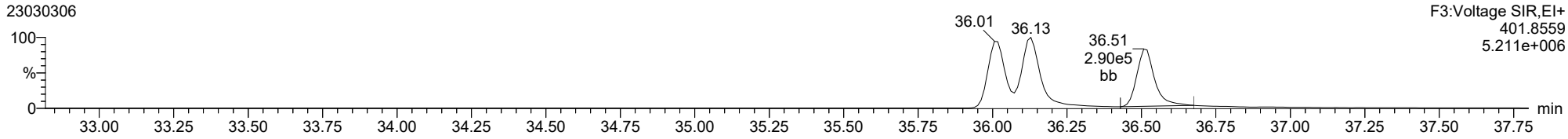

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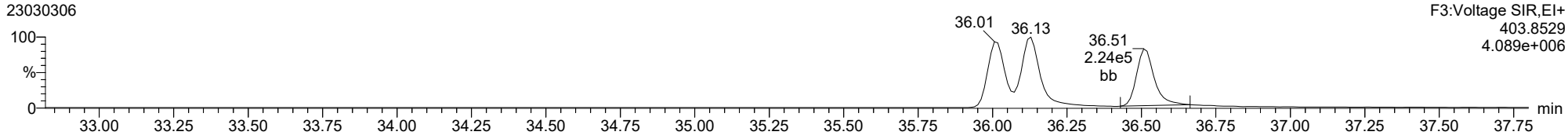

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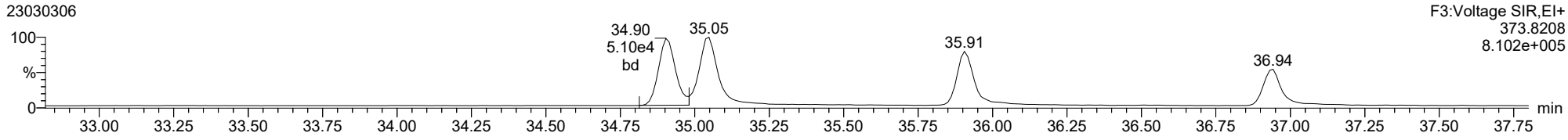

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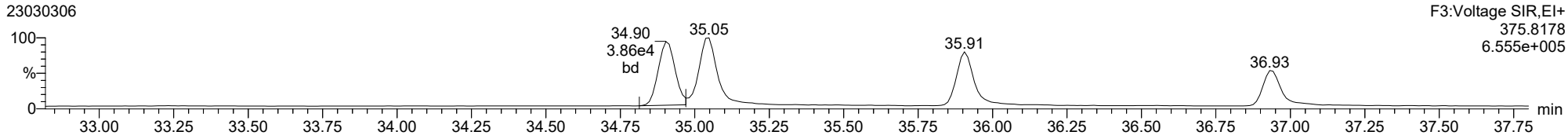

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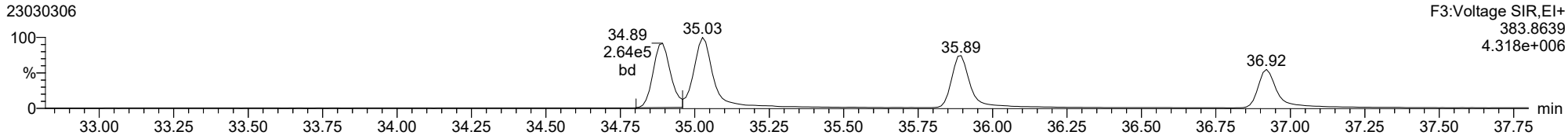

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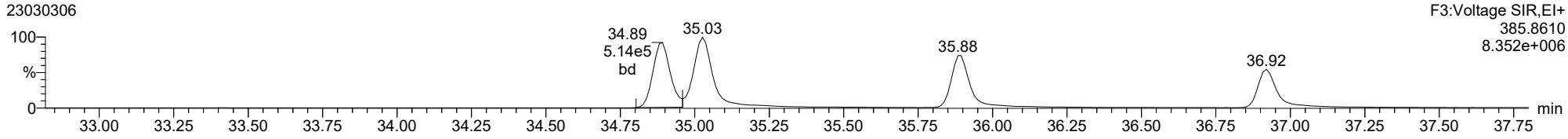

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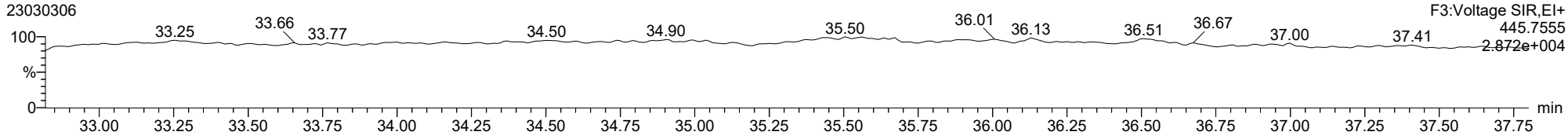

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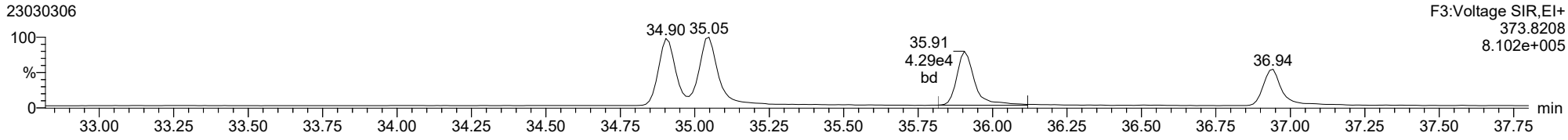

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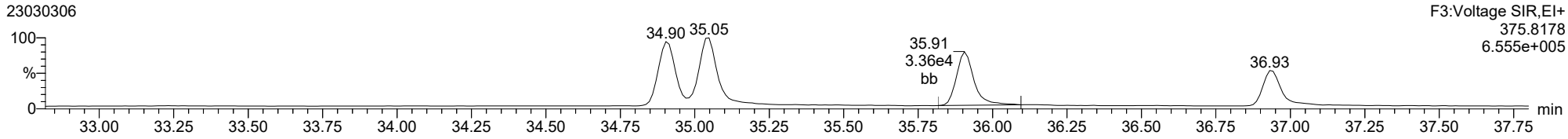

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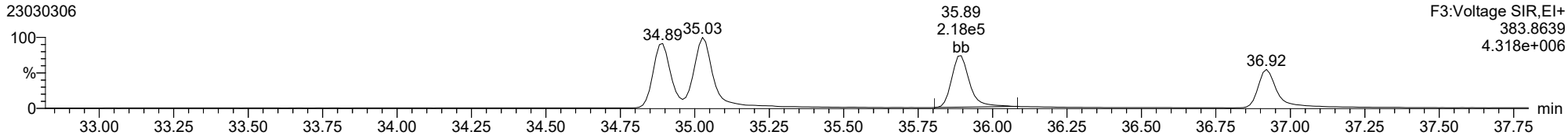

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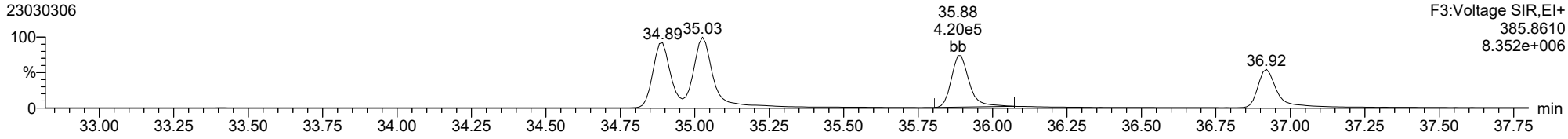

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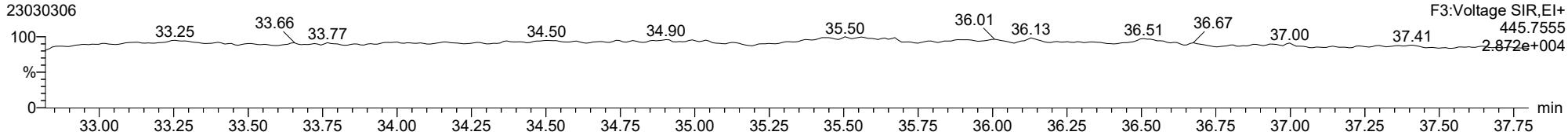

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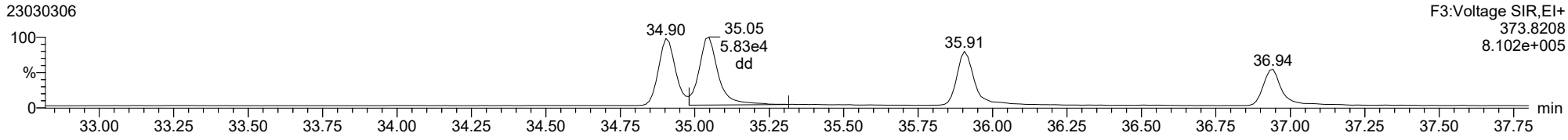

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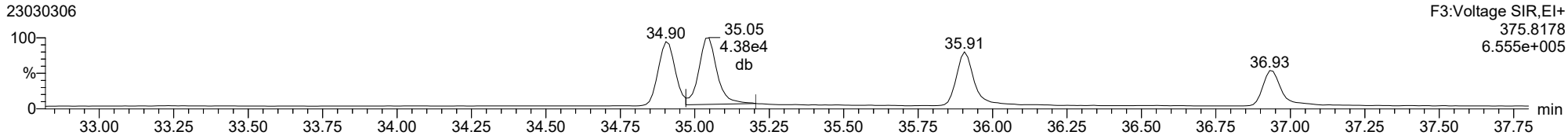

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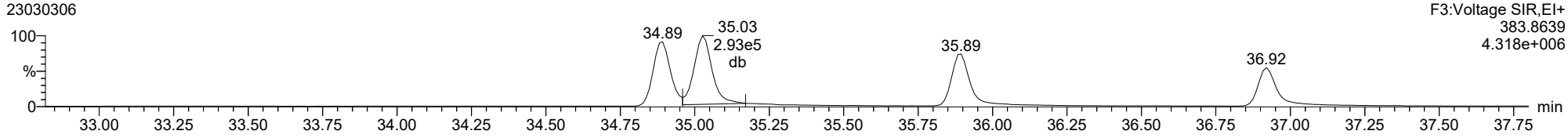

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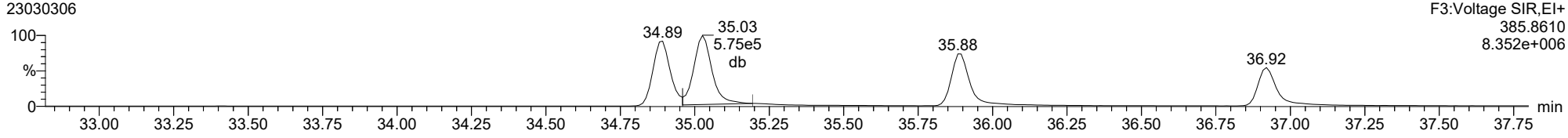

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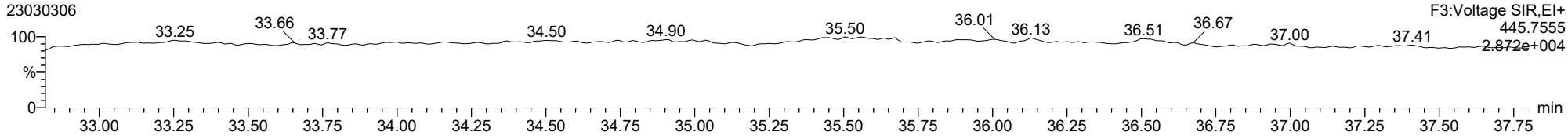

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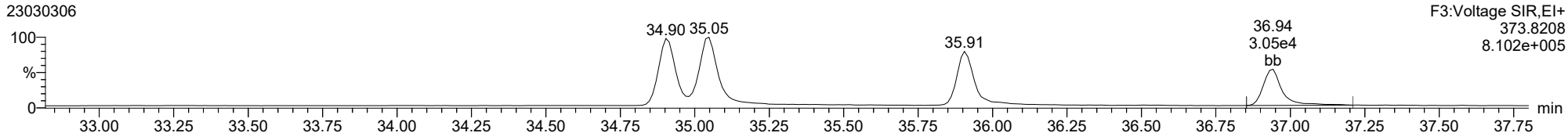

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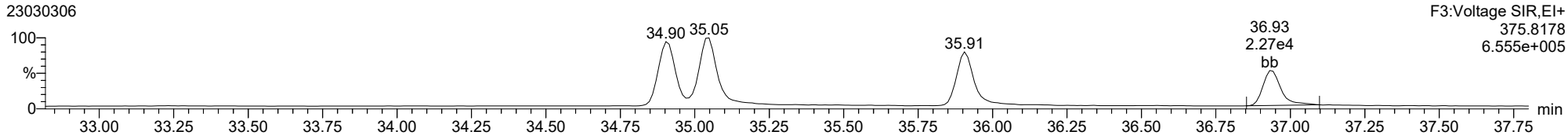

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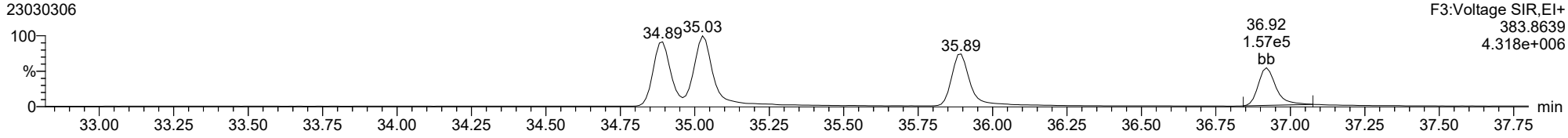

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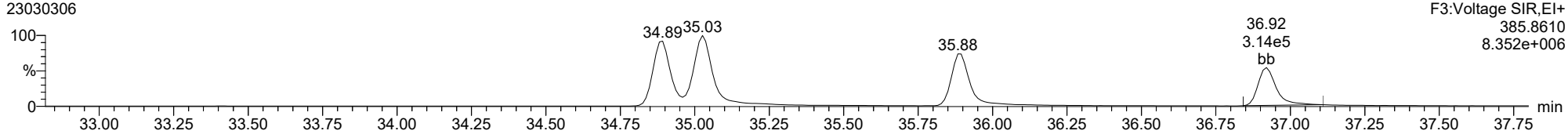

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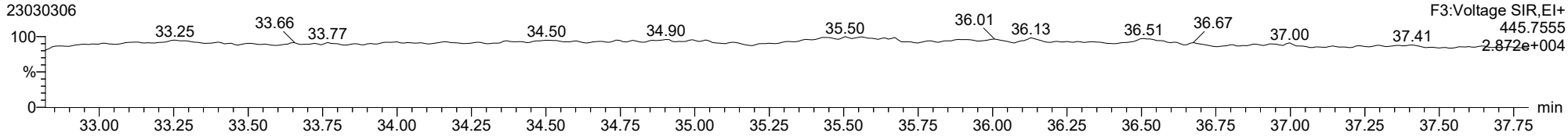

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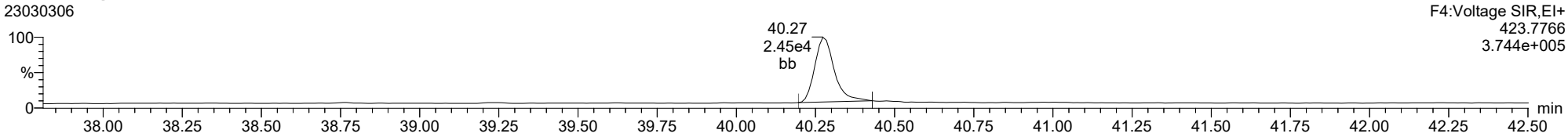

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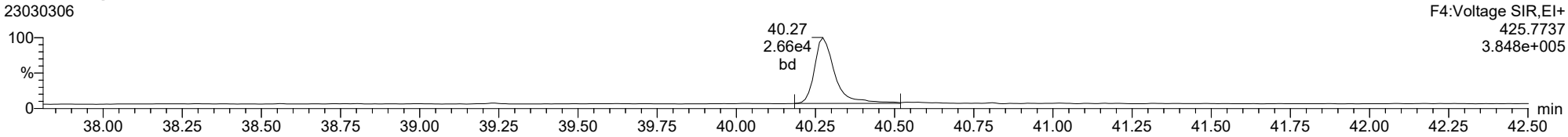

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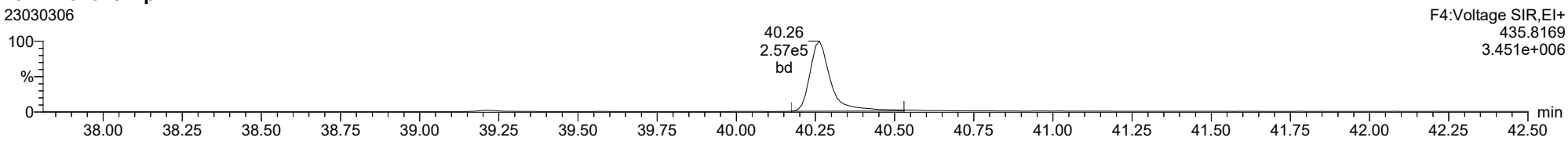

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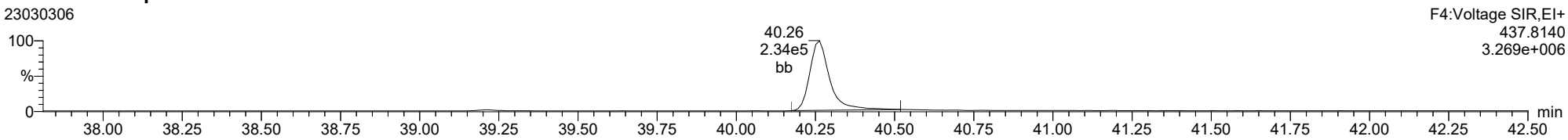

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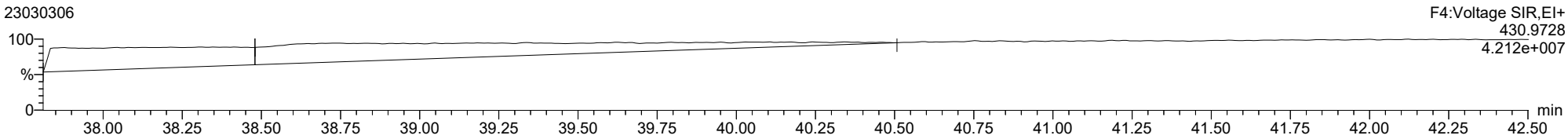

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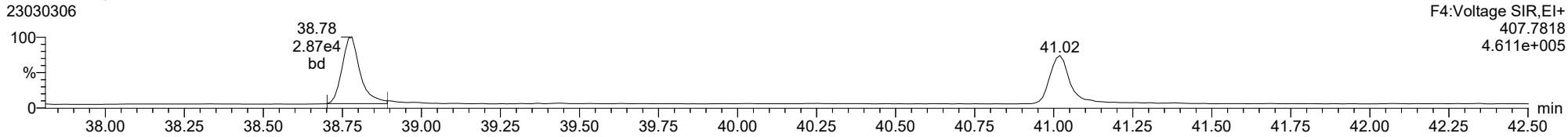

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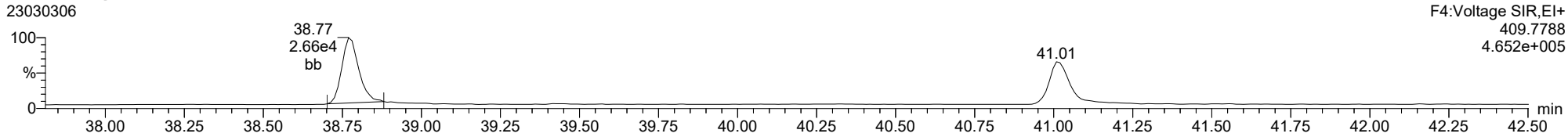

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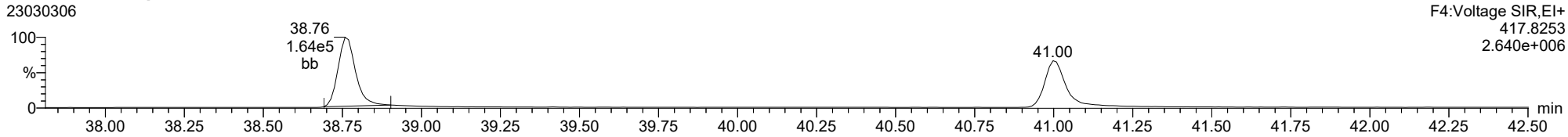

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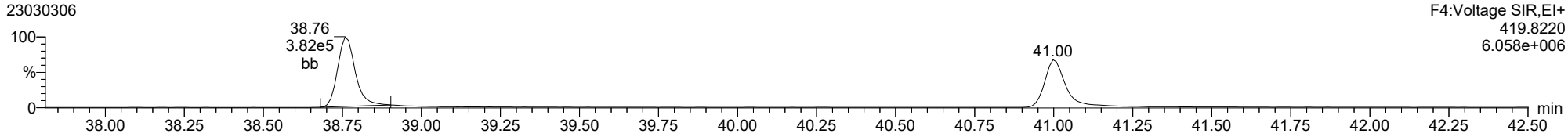

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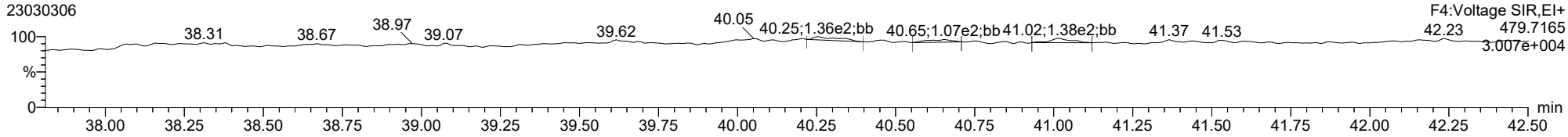

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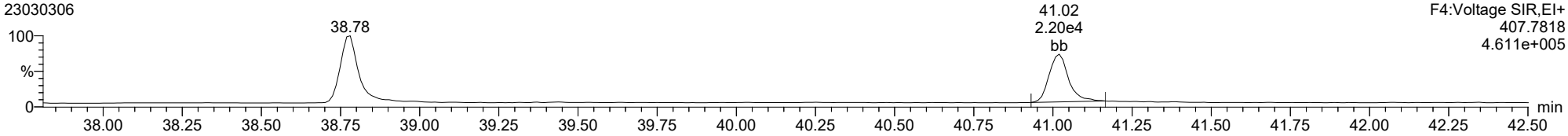

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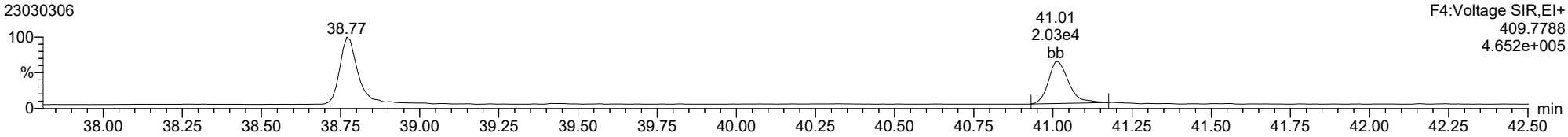

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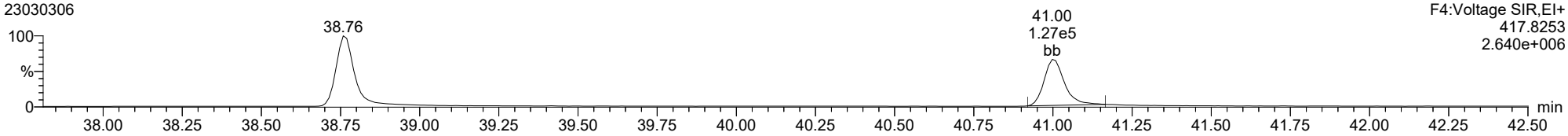

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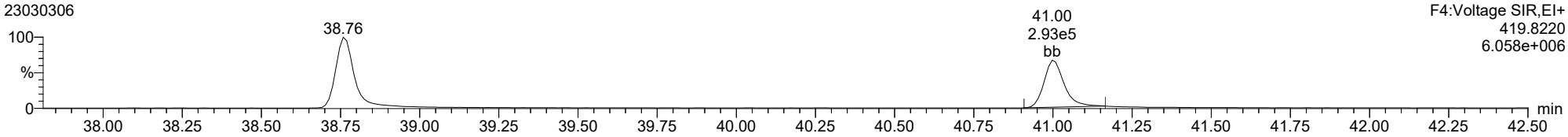

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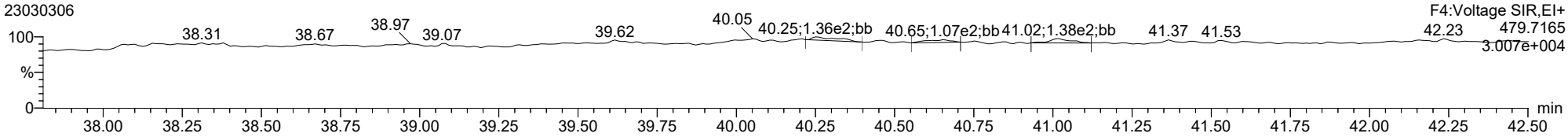

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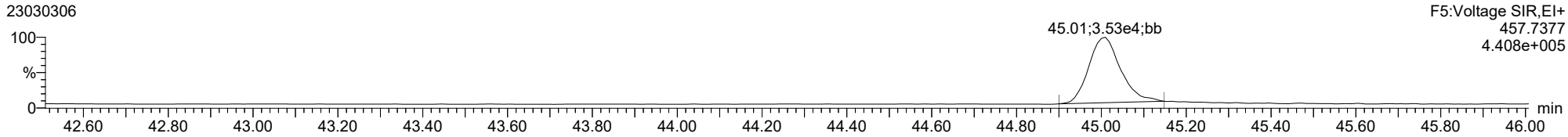

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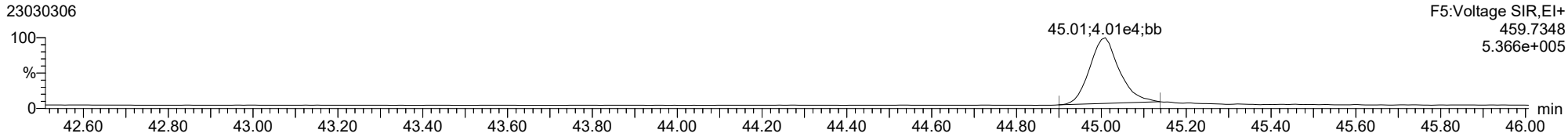

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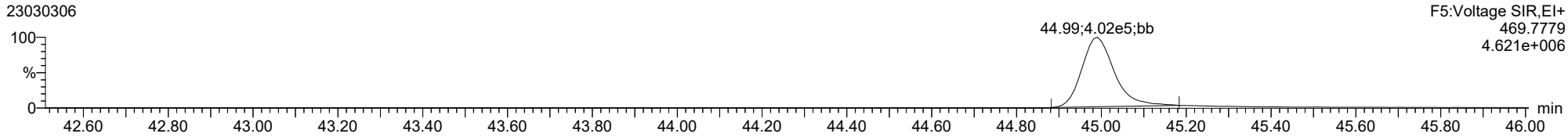

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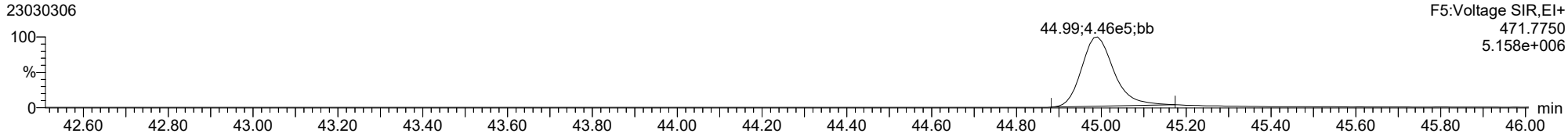
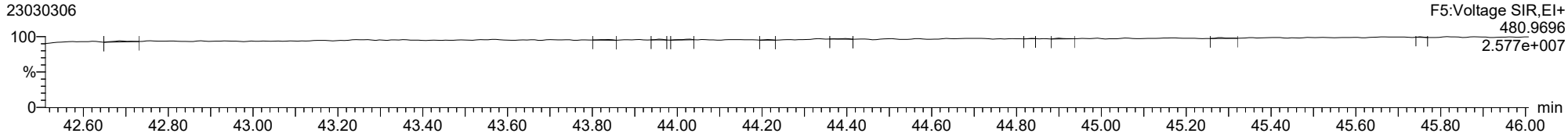


FUNCTION5 PFK



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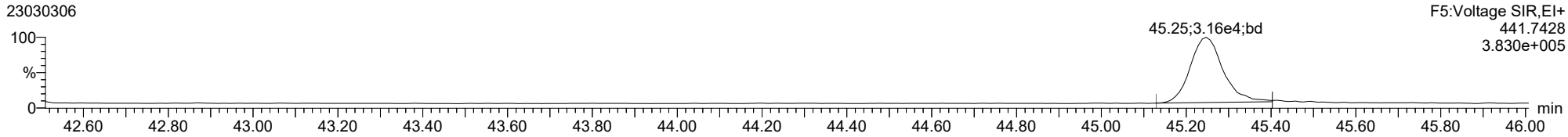
OCDF



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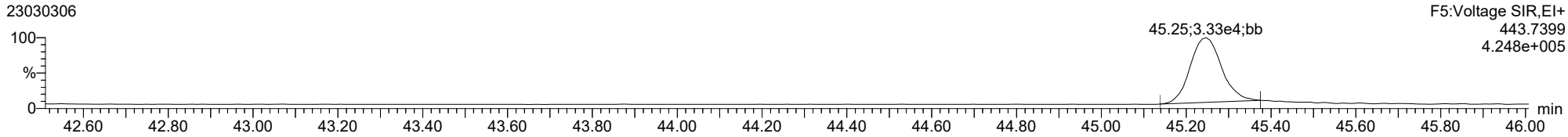

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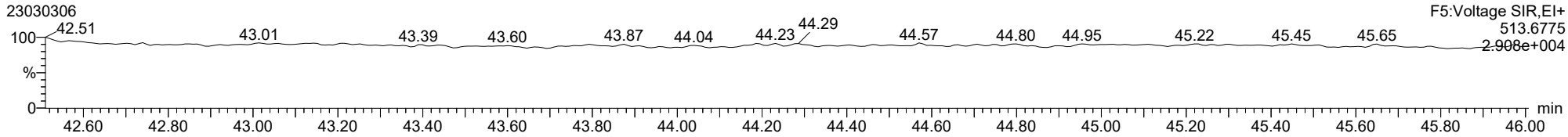

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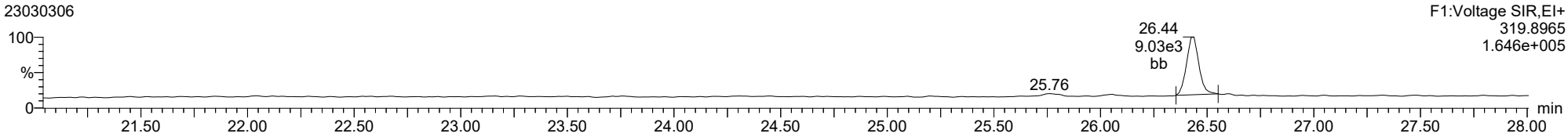
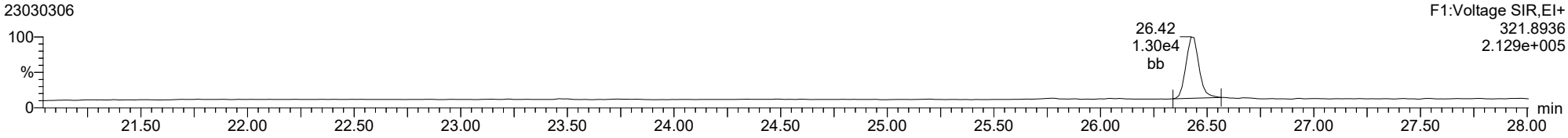


Total-tetradioxins



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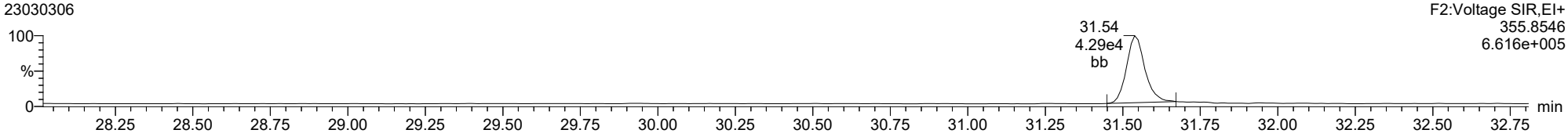
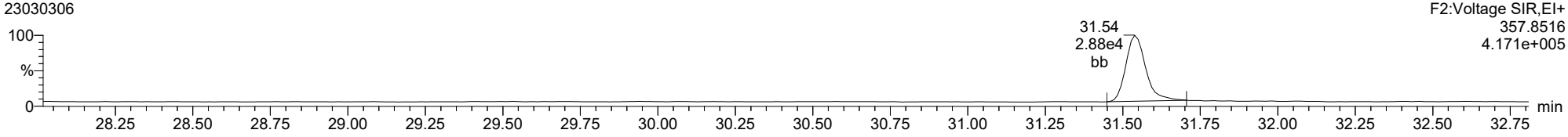


Total-pentadioxins



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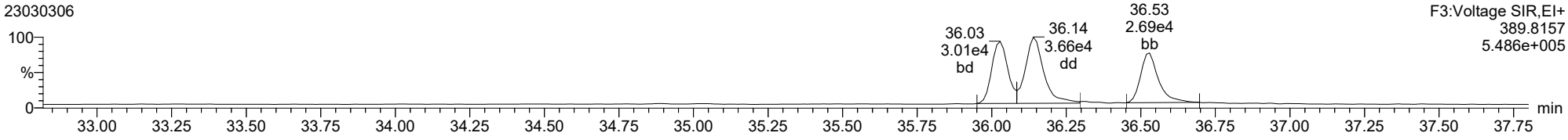
Total-hexadioxins



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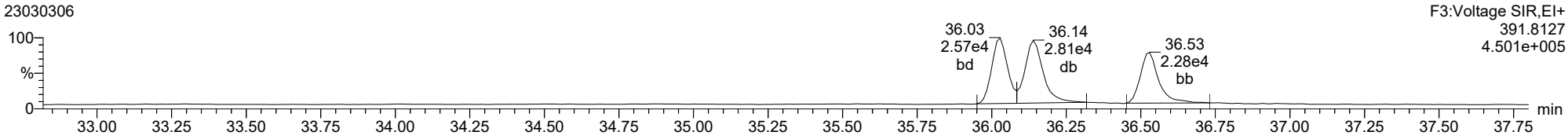
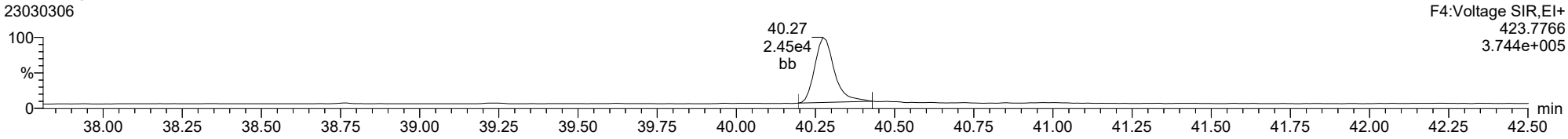
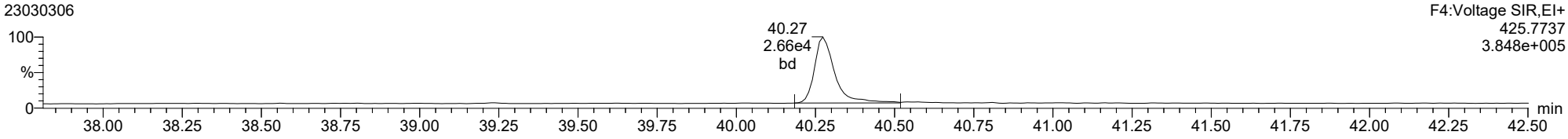


Total-heptadioxins



Total-heptadioxins



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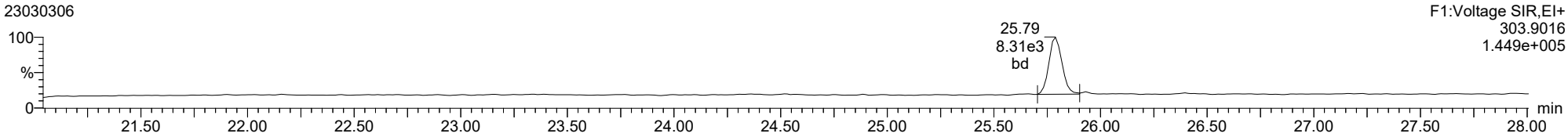
Total-tetrafurans



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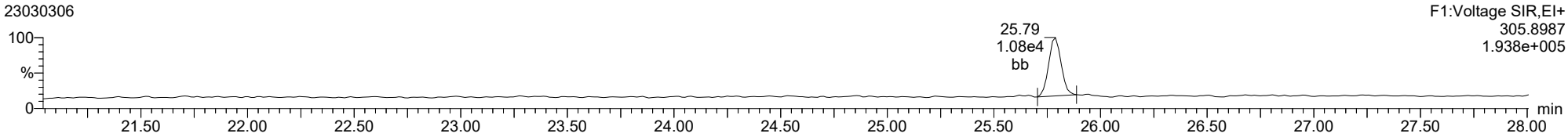

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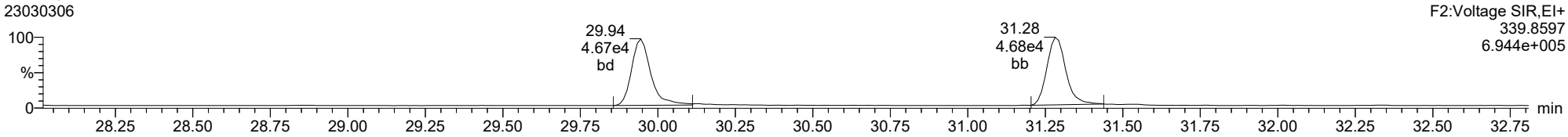

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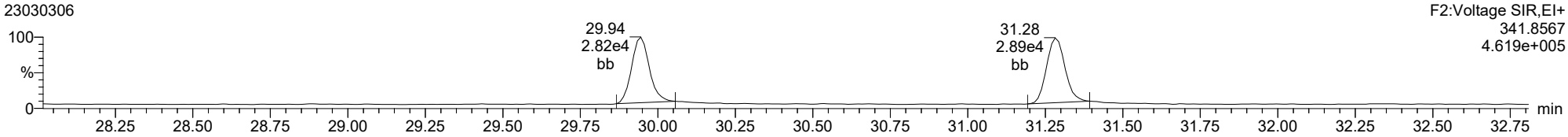

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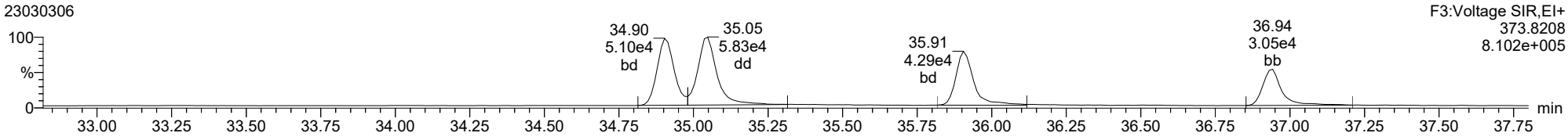
Total-hexafurans



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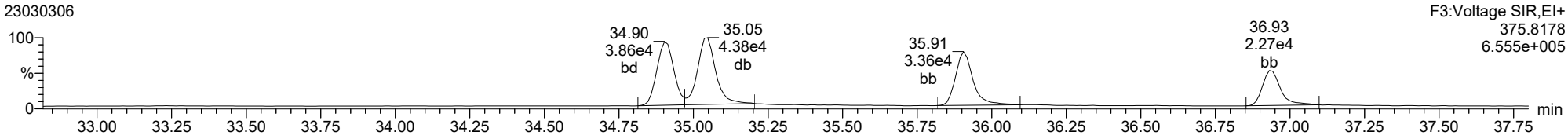

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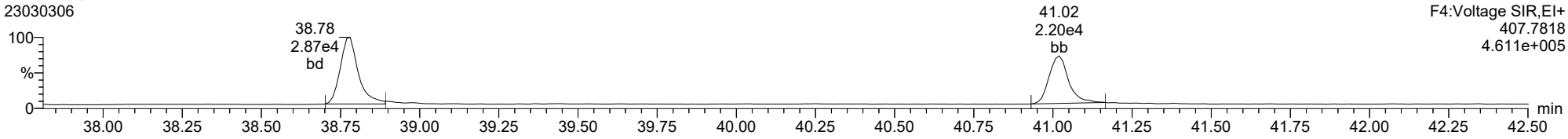

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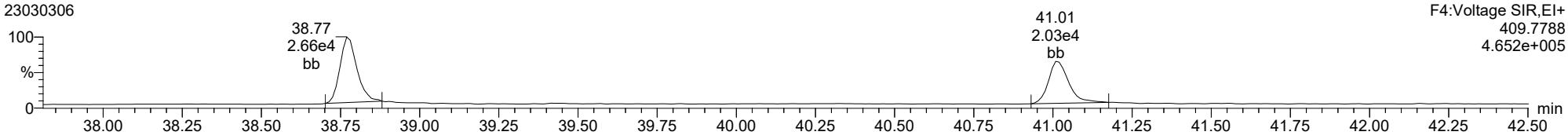

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Last Altered: Monday, March 06, 2023 10:57:27 Pacific Standard Time
Printed: Monday, March 06, 2023 11:34:37 Pacific Standard Time

Method: T:\Autospec\Methods\Dioxin230303.mdb 03 Mar 2023 14:58:50
Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 10:57:27

ID: CS3CW, Name: 23030307, Date: 03-Mar-2023, Time: 14:06:39, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	25.788	1.001	4.563e4	6.298e4	0.702	0.724	0.770	1455	2151	7.03e5	9.46e5	483.4	440.0	NO	bb	bb	10.132
12378-PeCDF	29.945	1.001	2.374e5	1.577e5	0.679	1.505	1.550	2714	2519	3.51e6	2.28e6	1294.3	903.8	NO	bb	bb	49.089
23478-PeCDF	31.282	1.001	2.063e5	1.364e5	0.786	1.512	1.550	2714	2519	3.03e6	1.99e6	1118.0	788.5	NO	bb	bb	49.466
123478-HxCDF	34.903	1.000	2.473e5	1.941e5	1.166	1.275	1.240	3008	2708	3.76e6	2.98e6	1248.4	1099.9	NO	bd	bd	48.979
234678-HxCDF	35.905	1.000	2.404e5	1.930e5	1.140	1.246	1.240	3008	2708	3.53e6	2.85e6	1172.2	1053.8	NO	bb	bb	49.000
123678-HxCDF	35.048	1.001	2.970e5	2.223e5	1.091	1.336	1.240	3008	2708	3.95e6	3.09e6	1312.5	1142.3	NO	db	db	50.520
123789-HxCDF	36.942	1.001	2.103e5	1.706e5	1.137	1.233	1.240	3008	2708	2.89e6	2.30e6	959.2	849.3	NO	bd	bd	50.468
1234678-HpCDF	38.780	1.000	1.592e5	1.601e5	1.003	0.994	1.050	2672	2189	2.51e6	2.53e6	939.2	1157.5	NO	bb	bb	48.161
1234789-HpCDF	41.019	1.000	1.361e5	1.443e5	0.953	0.943	1.050	2672	2189	1.84e6	1.86e6	689.1	851.7	NO	bb	bd	49.244
OCDF	45.247	1.006	2.019e5	2.478e5	0.778	0.815	0.890	1393	1380	2.32e6	2.62e6	1663.0	1900.3	NO	bb	bd	93.418
2378-TCDD	26.424	1.000	5.877e4	7.446e4	1.149	0.789	0.770	1483	1021	8.00e5	1.03e6	539.5	1013.7	NO	bd	bb	9.873
12378-PeCDD	31.538	1.000	1.890e5	1.221e5	1.022	1.548	1.550	1651	2172	2.74e6	1.77e6	1662.3	815.6	NO	bb	bb	49.884
123478-HxCDD	36.028	1.000	1.812e5	1.479e5	0.996	1.225	1.240	1690	2600	2.90e6	2.38e6	1717.5	913.7	NO	bd	bd	48.605
123678-HxCDD	36.139	1.000	2.270e5	1.862e5	1.001	1.219	1.240	1690	2600	3.05e6	2.54e6	1803.3	977.3	NO	db	db	51.480
123789-HxCDD	36.529	1.011	1.887e5	1.546e5	0.907	1.221	1.240	1690	2600	2.71e6	2.20e6	1606.4	846.3	NO	bb	bb	51.083
1234678-HpCDD	40.273	1.000	1.573e5	1.681e5	1.039	0.936	1.050	2523	2313	2.21e6	2.22e6	874.4	957.9	NO	bb	bd	49.956
OCDD	45.009	1.000	2.508e5	2.930e5	0.920	0.856	0.890	1279	1652	2.91e6	3.41e6	2272.5	2065.6	NO	bb	bb	95.487
13C-2378-TCDF	25.774	1.007	6.575e5	8.705e5	1.620	0.755	0.770	2127	1667	9.70e6	1.27e7	4562.2	7600.8	NO	bb	bb	92.139
13C-12378-PeCDF	29.922	1.169	7.106e5	4.742e5	1.240	1.498	1.550	3150	3257	9.76e6	6.54e6	3098.5	2009.5	NO	bd	bd	93.316
13C-23478-PeCDF	31.259	1.221	5.241e5	3.573e5	1.118	1.467	1.550	3150	3257	7.68e6	5.27e6	2437.6	1617.5	NO	bb	bb	77.038
13C-123478-HxCDF	34.891	0.956	2.605e5	5.124e5	1.168	0.508	0.510	2130	2302	3.94e6	7.71e6	1851.1	3349.5	NO	bd	bd	95.975
13C-123678-HxCDF	35.025	0.959	3.029e5	6.396e5	1.386	0.474	0.510	2130	2302	4.25e6	8.39e6	1994.1	3646.7	NO	db	db	98.624
13C-234678-HxCDF	35.894	0.983	2.705e5	5.057e5	1.129	0.535	0.510	2130	2302	3.77e6	7.17e6	1772.4	3115.7	NO	bd	bb	99.718
13C-123789-HxCDF	36.919	1.011	2.253e5	4.385e5	0.932	0.514	0.510	2130	2302	3.30e6	6.48e6	1548.0	2814.2	NO	bb	bb	103.358
13C-1234678-HpCDF	38.769	1.062	2.032e5	4.578e5	0.895	0.444	0.440	2209	3025	3.15e6	7.13e6	1428.1	2357.0	NO	bb	bb	107.118
13C-1234789-HpCDF	41.008	1.123	1.757e5	4.217e5	0.770	0.417	0.440	2209	3025	2.29e6	5.20e6	1036.4	1717.4	NO	bb	bb	112.595
13C-1234-TCDD	25.605	0.000	4.555e5	5.681e5	1.000	0.802	0.770	2485	1606	6.85e6	8.57e6	2757.9	5335.2	NO	bb	bb	100.000
13C-2378-TCDD	26.410	1.031	5.228e5	6.520e5	1.152	0.802	0.770	2485	1606	7.70e6	9.63e6	3097.5	5999.3	NO	bb	bb	99.597
13C-12378-PeCDD	31.527	1.231	3.747e5	2.356e5	0.829	1.590	1.550	1413	1348	5.28e6	3.29e6	3736.6	2437.5	NO	bb	bb	71.936
13C-123478-HxCDD	36.017	0.986	3.837e5	2.963e5	0.995	1.295	1.240	1796	1719	5.91e6	4.54e6	3293.9	2638.3	NO	bd	bd	99.140
13C-123678-HxCDD	36.128	0.989	4.675e5	3.344e5	1.157	1.398	1.240	1796	1719	6.38e6	4.87e6	3554.2	2831.4	NO	db	db	100.573
13C-1234678-HpCDD	40.262	1.102	3.210e5	3.059e5	0.840	1.049	1.050	2165	1959	4.38e6	4.15e6	2024.2	2117.7	NO	bb	bb	108.247
13C-OCDD	44.990	1.232	6.075e5	6.305e5	0.767	0.963	0.890	2629	1930	6.50e6	7.26e6	2473.3	3761.0	NO	bd	bb	234.029
13C-123789-HxCDD	36.518	0.000	3.849e5	3.043e5	1.000	1.265	1.240	1796	1719	5.52e6	4.36e6	3076.5	2537.0	NO	bb	bb	100.000
37CL-2378-TCDD	26.424	1.032	1.159e5		1.288			2383		1.68e6		703.2			bb		8.796

Dataset: T:\Autospec\Processed Data Batch\230303ICIH.qld
Last Altered: Monday, March 06, 2023 10:57:27 Pacific Standard Time
Printed: Monday, March 06, 2023 11:34:37 Pacific Standard Time

ID: CS3CW, Name: 23030307, Date: 03-Mar-2023, Time: 14:06:39, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF	22.285	0.865	5.143e4	7.104e4	0.802	0.724	0.770	1455	2151	8.64e5	1.17e6	593.7	544.2	NO	bb	bb	10.000
1289-TCDF	27.286	1.059	4.449e4	5.910e4	0.678	0.753	0.770	1455	2151	6.41e5	8.65e5	440.8	402.3	NO	bb	db	10.000
13468-PECDF	27.144	0.907	4.471e5	2.913e5	1.246	1.535	1.550	765	1431	6.85e6	4.42e6	8952.4	3092.4	NO	bb	bb	50.000
12389-PECDF	32.318	1.080	1.756e5	1.185e5	0.496	1.482	1.550	2714	2519	2.46e6	1.67e6	905.1	663.5	NO	bb	bb	50.000
123468-HXCDF	33.243	0.953	2.474e5	2.044e5	1.169	1.210	1.240	3008	2708	3.57e6	2.89e6	1187.3	1066.9	NO	bb	bd	50.000
1368-TCDD	23.557	0.892	5.333e4	6.596e4	1.015	0.808	0.770	1483	1021	8.25e5	1.09e6	556.5	1064.4	NO	bb	bb	10.000
1289-TCDD	27.031	1.023	4.649e4	6.027e4	0.909	0.771	0.770	1483	1021	6.71e5	8.87e5	452.4	868.9	NO	bb	bb	10.000
12479-PECDD	28.830	0.914	4.152e5	2.870e5	2.301	1.447	1.550	1651	2172	3.89e6	2.64e6	2354.1	1214.5	NO	bb	bd	50.000
12389-PECDD	31.939	1.013	2.202e5	1.409e5	1.184	1.563	1.550	1651	2172	2.97e6	1.93e6	1798.8	887.7	NO	bd	bd	50.000
124679-HXCDD	34.011	0.944	2.133e5	1.659e5	1.115	1.286	1.240	1690	2600	2.98e6	2.42e6	1762.3	930.8	NO	bd	bb	50.000
1234679-HPCDD	39.225	0.974	1.868e5	1.696e5	1.137	1.101	1.050	2523	2313	2.68e6	2.60e6	1062.7	1125.2	NO	bd	bb	50.000
Total-tetrafurans			1.415e5		0.727			1455		2.21e6							30.132
Total-penta1			4.471e5					765		6.85e6							50.000
Total-pentafurans			6.595e5		0.654			2714		9.58e6							158.378
Total-hexafurans			1.243e6		1.141			3008		1.77e7							249.074
Total-heptafurans			2.965e5		0.978			2672		4.37e6							97.824
Total-Furans			2.990e6		0.922			1455		4.30e7							678.826
Total-tetradioxins			2.666e5		1.024			1483		3.52e6							50.252
Total-pentadioxins			8.253e5		1.502			1651		9.61e6							150.025
Total-hexadioxins			8.102e5		1.005			1690		1.16e7							201.167
Total-heptadioxins			3.440e5		1.088			2523		4.89e6							99.956
Total-Dioxins			2.497e6		1.130			1483		3.26e7							596.887
Total-TEQ			5.487e6					1483		7.56e7							1275.713
FUNCTION1 PFK			2.078e5					640846		4.44e6							
FUNCTION2 PFK			1.544e7					302960		1.17e7							0.000
FUNCTION3 PFK			6.335e6					441696		3.43e7							0.000
FUNCTION4 PFK			1.606e7					302692		2.36e6							
FUNCTION5 PFK			3.357e4					240421		1.60e6							
FUNCTION1 HXCD...			1.444e3					587		1.68e4							0.000
FUNCTION1 HPCD...																	
FUNCTION2 HPCD...			9.034e2					1003		1.66e4							0.000
FUNCTION3 OCDPE			5.560e2					494		8.57e3							0.000
FUNCTION4 NCDPE			9.205e2					776		1.78e4							0.000
FUNCTION5 DCDPE			9.291e1					548		1.29e3							0.000

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Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 10:57:27

ID: CS3CW, Name: 23030307, Date: 03-Mar-2023, Time: 14:06:39, Conditions: AUTOSPEC01, User: pk

TF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.29	4.449e4	5.910e4	0.678	0.75	0.77	440.8	YES	NO	bb	db	10.000
2	2378-TCDF	25.79	4.563e4	6.298e4	0.702	0.72	0.77	483.4	YES	NO	bb	bb	10.132
3	1368-TCDF	22.29	5.143e4	7.104e4	0.802	0.72	0.77	593.7	YES	NO	bb	bb	10.000

PP

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	13468-PECDF	27.14	4.471e5	2.913e5	1.246	1.53	1.55	8952.4	YES	NO	bb	bb	50.000

PF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12389-PECDF	32.32	1.756e5	1.185e5	0.496	1.48	1.55	905.1	YES	NO	bb	bb	50.000
2	23478-PeCDF	31.28	2.063e5	1.364e5	0.786	1.51	1.55	1118.0	YES	NO	bb	bb	49.466
3	Total-pentafurans	30.13	4.319e2	3.264e2	0.654	1.32	1.55	1.8	NO	NO	bb	bb	0.112
4	12378-PeCDF	29.94	2.374e5	1.577e5	0.679	1.51	1.55	1294.3	YES	NO	bb	bb	49.089
5	Total-pentafurans	28.80	3.978e4	2.583e4	0.654	1.54	1.55	212.5	YES	NO	bb	bb	9.712

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-hexafurans	37.33	5.073e2	4.522e2	1.141	1.12	1.24	4.2	YES	NO	db	dd	0.107
2	123789-HxCDF	36.94	2.103e5	1.706e5	1.137	1.23	1.24	959.2	YES	NO	bd	bd	50.468
3	234678-HxCDF	35.91	2.404e5	1.930e5	1.140	1.25	1.24	1172.2	YES	NO	bb	bb	49.000
4	123678-HxCDF	35.05	2.970e5	2.223e5	1.091	1.34	1.24	1312.5	YES	NO	db	db	50.520
5	123478-HxCDF	34.90	2.473e5	1.941e5	1.166	1.27	1.24	1248.4	YES	NO	bd	bd	48.979
6	123468-HXCDF	33.24	2.474e5	2.044e5	1.169	1.21	1.24	1187.3	YES	NO	bb	bd	50.000

HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234789-HpCDF	41.02	1.361e5	1.443e5	0.953	0.94	1.05	689.1	YES	NO	bb	bd	49.244
2	Total-heptafurans	39.44	1.302e3	1.273e3	0.978	1.02	1.05	8.5	YES	NO	bb	bb	0.418
3	1234678-HpCDF	38.78	1.592e5	1.601e5	1.003	0.99	1.05	939.2	YES	NO	bb	bb	48.161

ID: CS3CW, Name: 23030307, Date: 03-Mar-2023, Time: 14:06:39, Conditions: AUTOSPEC01, User: pk

Furans,TF,PP,PF,HF,HPF,OF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.29	4.449e4	5.910e4	0.678	0.75	0.77	440.8	YES	NO	bb	db	10.000
2	2378-TCDF	25.79	4.563e4	6.298e4	0.702	0.72	0.77	483.4	YES	NO	bb	bb	10.132
3	1368-TCDF	22.29	5.143e4	7.104e4	0.802	0.72	0.77	593.7	YES	NO	bb	bb	10.000
4	12389-PECDF	32.32	1.756e5	1.185e5	0.496	1.48	1.55	905.1	YES	NO	bb	bb	50.000
5	23478-PeCDF	31.28	2.063e5	1.364e5	0.786	1.51	1.55	1118.0	YES	NO	bb	bb	49.466
6	Total-pentafurans	30.13	4.319e2	3.264e2	0.654	1.32	1.55	1.8	NO	NO	bb	bb	0.112
7	12378-PeCDF	29.94	2.374e5	1.577e5	0.679	1.51	1.55	1294.3	YES	NO	bb	bb	49.089
8	Total-pentafurans	28.80	3.978e4	2.583e4	0.654	1.54	1.55	212.5	YES	NO	bb	bb	9.712
9	Total-hexafurans	37.33	5.073e2	4.522e2	1.141	1.12	1.24	4.2	YES	NO	db	dd	0.107
10	123789-HxCDF	36.94	2.103e5	1.706e5	1.137	1.23	1.24	959.2	YES	NO	bd	bd	50.468
11	234678-HxCDF	35.91	2.404e5	1.930e5	1.140	1.25	1.24	1172.2	YES	NO	bb	bb	49.000
12	123678-HxCDF	35.05	2.970e5	2.223e5	1.091	1.34	1.24	1312.5	YES	NO	db	db	50.520
13	123478-HxCDF	34.90	2.473e5	1.941e5	1.166	1.27	1.24	1248.4	YES	NO	bd	bd	48.979
14	123468-HXCDF	33.24	2.474e5	2.044e5	1.169	1.21	1.24	1187.3	YES	NO	bb	bd	50.000
15	1234789-HpCDF	41.02	1.361e5	1.443e5	0.953	0.94	1.05	689.1	YES	NO	bb	bd	49.244
16	Total-heptafurans	39.44	1.302e3	1.273e3	0.978	1.02	1.05	8.5	YES	NO	bb	bb	0.418
17	1234678-HpCDF	38.78	1.592e5	1.601e5	1.003	0.99	1.05	939.2	YES	NO	bb	bb	48.161
18	OCDF	45.25	2.019e5	2.478e5	0.778	0.81	0.89	1663.0	YES	NO	bb	bd	93.418
19	13468-PECDF	27.14	4.471e5	2.913e5	1.246	1.53	1.55	8952.4	YES	NO	bb	bb	50.000

TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1368-TCDD	23.56	5.333e4	6.596e4	1.015	0.81	0.77	556.5	YES	NO	bb	bb	10.000
2	1289-TCDD	27.03	4.649e4	6.027e4	0.909	0.77	0.77	452.4	YES	NO	bb	bb	10.000
3	2378-TCDD	26.42	5.877e4	7.446e4	1.149	0.79	0.77	539.5	YES	NO	bd	bb	9.873
4	Total-tetradioxins	26.10	8.105e4	1.035e5	1.024	0.78	0.77	553.1	YES	NO	bb	bb	15.333
5	Total-tetradioxins	25.62	2.642e4	3.299e4	1.024	0.80	0.77	267.0	YES	NO	bd	bb	4.937
6	Total-tetradioxins	25.04	5.856e2	7.161e2	1.024	0.82	0.77	7.0	YES	NO	bb	bb	0.108

PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12389-PECDD	31.94	2.202e5	1.409e5	1.184	1.56	1.55	1798.8	YES	NO	bd	bd	50.000
2	12378-PeCDD	31.54	1.890e5	1.221e5	1.022	1.55	1.55	1662.3	YES	NO	bb	bb	49.884
3	Total-pentadioxins	30.88	8.263e2	4.657e2	1.502	1.77	1.55	8.6	YES	NO	bb	bb	0.141
4	12479-PECDD	28.83	4.152e5	2.870e5	2.301	1.45	1.55	2354.1	YES	NO	bb	bd	50.000

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HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDD	36.53	1.887e5	1.546e5	0.907	1.22	1.24	1606.4	YES	NO	bb	bb	51.083
2	123678-HxCDD	36.14	2.270e5	1.862e5	1.001	1.22	1.24	1803.3	YES	NO	db	db	51.480
3	123478-HxCDD	36.03	1.812e5	1.479e5	0.996	1.23	1.24	1717.5	YES	NO	bd	bd	48.605
4	124679-HXCDD	34.01	2.133e5	1.659e5	1.115	1.29	1.24	1762.3	YES	NO	bd	bb	50.000

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	40.27	1.573e5	1.681e5	1.039	0.94	1.05	874.4	YES	NO	bb	bd	49.956
2	1234679-HPCDD	39.23	1.868e5	1.696e5	1.137	1.10	1.05	1062.7	YES	NO	bd	bb	50.000

Dioxins,TD,PD,HD,HPD,OD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1368-TCDD	23.56	5.333e4	6.596e4	1.015	0.81	0.77	556.5	YES	NO	bb	bb	10.000
2	1289-TCDD	27.03	4.649e4	6.027e4	0.909	0.77	0.77	452.4	YES	NO	bb	bb	10.000
3	2378-TCDD	26.42	5.877e4	7.446e4	1.149	0.79	0.77	539.5	YES	NO	bd	bb	9.873
4	Total-tetradioxins	26.10	8.105e4	1.035e5	1.024	0.78	0.77	553.1	YES	NO	bb	bb	15.333
5	Total-tetradioxins	25.62	2.642e4	3.299e4	1.024	0.80	0.77	267.0	YES	NO	bd	bb	4.937
6	Total-tetradioxins	25.04	5.856e2	7.161e2	1.024	0.82	0.77	7.0	YES	NO	bb	bb	0.108
7	12389-PECDD	31.94	2.202e5	1.409e5	1.184	1.56	1.55	1798.8	YES	NO	bd	bd	50.000
8	12378-PeCDD	31.54	1.890e5	1.221e5	1.022	1.55	1.55	1662.3	YES	NO	bb	bb	49.884
9	Total-pentadioxins	30.88	8.263e2	4.657e2	1.502	1.77	1.55	8.6	YES	NO	bb	bb	0.141
10	12479-PECDD	28.83	4.152e5	2.870e5	2.301	1.45	1.55	2354.1	YES	NO	bb	bd	50.000
11	123789-HxCDD	36.53	1.887e5	1.546e5	0.907	1.22	1.24	1606.4	YES	NO	bb	bb	51.083
12	123678-HxCDD	36.14	2.270e5	1.862e5	1.001	1.22	1.24	1803.3	YES	NO	db	db	51.480
13	123478-HxCDD	36.03	1.812e5	1.479e5	0.996	1.23	1.24	1717.5	YES	NO	bd	bd	48.605
14	124679-HXCDD	34.01	2.133e5	1.659e5	1.115	1.29	1.24	1762.3	YES	NO	bd	bb	50.000
15	1234678-HpCDD	40.27	1.573e5	1.681e5	1.039	0.94	1.05	874.4	YES	NO	bb	bd	49.956
16	1234679-HPCDD	39.23	1.868e5	1.696e5	1.137	1.10	1.05	1062.7	YES	NO	bd	bb	50.000
17	OCDD	45.01	2.508e5	2.930e5	0.920	0.86	0.89	2272.5	YES	NO	bb	bb	95.487

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TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.29	4.449e4	5.910e4	0.678	0.75	0.77	440.8	YES	NO	bb	db	10.000
2	2378-TCDF	25.79	4.563e4	6.298e4	0.702	0.72	0.77	483.4	YES	NO	bb	bb	10.132
3	1368-TCDF	22.29	5.143e4	7.104e4	0.802	0.72	0.77	593.7	YES	NO	bb	bb	10.000
4	12389-PECDF	32.32	1.756e5	1.185e5	0.496	1.48	1.55	905.1	YES	NO	bb	bb	50.000
5	23478-PeCDF	31.28	2.063e5	1.364e5	0.786	1.51	1.55	1118.0	YES	NO	bb	bb	49.466
6	Total-pentafurans	30.13	4.319e2	3.264e2	0.654	1.32	1.55	1.8	NO	NO	bb	bb	0.112
7	12378-PeCDF	29.94	2.374e5	1.577e5	0.679	1.51	1.55	1294.3	YES	NO	bb	bb	49.089
8	Total-pentafurans	28.80	3.978e4	2.583e4	0.654	1.54	1.55	212.5	YES	NO	bb	bb	9.712
9	Total-hexafurans	37.33	5.073e2	4.522e2	1.141	1.12	1.24	4.2	YES	NO	db	dd	0.107
10	123789-HxCDF	36.94	2.103e5	1.706e5	1.137	1.23	1.24	959.2	YES	NO	bd	bd	50.468
11	234678-HxCDF	35.91	2.404e5	1.930e5	1.140	1.25	1.24	1172.2	YES	NO	bb	bb	49.000
12	123678-HxCDF	35.05	2.970e5	2.223e5	1.091	1.34	1.24	1312.5	YES	NO	db	db	50.520
13	123478-HxCDF	34.90	2.473e5	1.941e5	1.166	1.27	1.24	1248.4	YES	NO	bd	bd	48.979
14	123468-HXCDF	33.24	2.474e5	2.044e5	1.169	1.21	1.24	1187.3	YES	NO	bb	bd	50.000
15	1234789-HpCDF	41.02	1.361e5	1.443e5	0.953	0.94	1.05	689.1	YES	NO	bb	bd	49.244
16	Total-heptafurans	39.44	1.302e3	1.273e3	0.978	1.02	1.05	8.5	YES	NO	bb	bb	0.418
17	1234678-HpCDF	38.78	1.592e5	1.601e5	1.003	0.99	1.05	939.2	YES	NO	bb	bb	48.161
18	OCDF	45.25	2.019e5	2.478e5	0.778	0.81	0.89	1663.0	YES	NO	bb	bd	93.418
19	13468-PECDF	27.14	4.471e5	2.913e5	1.246	1.53	1.55	8952.4	YES	NO	bb	bb	50.000
20	1368-TCDD	23.56	5.333e4	6.596e4	1.015	0.81	0.77	556.5	YES	NO	bb	bb	10.000
21	1289-TCDD	27.03	4.649e4	6.027e4	0.909	0.77	0.77	452.4	YES	NO	bb	bb	10.000
22	2378-TCDD	26.42	5.877e4	7.446e4	1.149	0.79	0.77	539.5	YES	NO	bd	bb	9.873
23	Total-tetradioxins	26.10	8.105e4	1.035e5	1.024	0.78	0.77	553.1	YES	NO	bb	bb	15.333
24	Total-tetradioxins	25.62	2.642e4	3.299e4	1.024	0.80	0.77	267.0	YES	NO	bd	bb	4.937
25	Total-tetradioxins	25.04	5.856e2	7.161e2	1.024	0.82	0.77	7.0	YES	NO	bb	bb	0.108
26	12389-PECDD	31.94	2.202e5	1.409e5	1.184	1.56	1.55	1798.8	YES	NO	bd	bd	50.000
27	12378-PeCDD	31.54	1.890e5	1.221e5	1.022	1.55	1.55	1662.3	YES	NO	bb	bb	49.884
28	Total-pentadioxins	30.88	8.263e2	4.657e2	1.502	1.77	1.55	8.6	YES	NO	bb	bb	0.141
29	12479-PECDD	28.83	4.152e5	2.870e5	2.301	1.45	1.55	2354.1	YES	NO	bb	bd	50.000
30	123789-HxCDD	36.53	1.887e5	1.546e5	0.907	1.22	1.24	1606.4	YES	NO	bb	bb	51.083
31	123678-HxCDD	36.14	2.270e5	1.862e5	1.001	1.22	1.24	1803.3	YES	NO	db	db	51.480
32	123478-HxCDD	36.03	1.812e5	1.479e5	0.996	1.23	1.24	1717.5	YES	NO	bd	bd	48.605
33	124679-HXCDD	34.01	2.133e5	1.659e5	1.115	1.29	1.24	1762.3	YES	NO	bd	bb	50.000
34	1234678-HpCDD	40.27	1.573e5	1.681e5	1.039	0.94	1.05	874.4	YES	NO	bb	bd	49.956
35	1234679-HPCDD	39.23	1.868e5	1.696e5	1.137	1.10	1.05	1062.7	YES	NO	bd	bb	50.000
36	OCDD	45.01	2.508e5	2.930e5	0.920	0.86	0.89	2272.5	YES	NO	bb	bb	95.487

Dataset: T:\Autospec\Processed Data Batch\230303ICIH.qld
Last Altered: Monday, March 06, 2023 10:57:27 Pacific Standard Time
Printed: Monday, March 06, 2023 11:34:37 Pacific Standard Time

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PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	27.24	1.621e5					3.0	YES		bb		
2	FUNCTION1 PFK	26.04	7.004e3					0.8	NO		bb		
3	FUNCTION1 PFK	25.20	1.505e4					1.0	NO		bb		
4	FUNCTION1 PFK	24.33	1.235e4					0.8	NO		bb		
5	FUNCTION1 PFK	23.94	5.589e3					0.6	NO		bb		
6	FUNCTION1 PFK	23.61	5.711e3					0.6	NO		bb		

PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	32.40	1.216e5					2.2	NO		bb		0.000
2	FUNCTION2 PFK	29.43	1.324e7					19.8	YES		db		0.000
3	FUNCTION2 PFK	28.41	2.080e6					16.6	YES		bd		0.000

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PFK3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	33.64	4.177e4					1.9	NO		bb		0.000
2	FUNCTION3 PFK	33.49	1.199e5					5.0	YES		db		0.000
3	FUNCTION3 PFK	33.44	2.654e6					7.0	YES		dd		0.000
4	FUNCTION3 PFK	33.06	2.958e6					23.7	YES		bd		0.000
5	FUNCTION3 PFK	35.38	2.169e4					1.0	NO		bb		0.000
6	FUNCTION3 PFK	35.25	5.928e3					0.6	NO		bb		0.000
7	FUNCTION3 PFK	35.11	7.037e3					0.7	NO		bb		0.000
8	FUNCTION3 PFK	34.99	1.627e4					1.0	NO		bb		0.000
9	FUNCTION3 PFK	34.92	1.103e4					1.1	NO		db		0.000
10	FUNCTION3 PFK	34.86	1.305e4					1.0	NO		bd		0.000
11	FUNCTION3 PFK	34.80	9.642e3					0.9	NO		bb		0.000
12	FUNCTION3 PFK	34.66	1.233e4					0.9	NO		db		0.000
13	FUNCTION3 PFK	34.64	7.688e3					0.8	NO		bd		0.000
14	FUNCTION3 PFK	34.57	9.132e3					0.8	NO		bb		0.000
15	FUNCTION3 PFK	34.47	7.208e3					0.8	NO		bb		0.000
16	FUNCTION3 PFK	34.31	1.503e4					1.0	NO		bb		0.000
17	FUNCTION3 PFK	34.22	2.675e4					1.4	NO		bb		0.000
18	FUNCTION3 PFK	34.01	3.007e4					2.1	NO		db		0.000
19	FUNCTION3 PFK	33.97	1.328e4					1.1	NO		bd		0.000
20	FUNCTION3 PFK	33.91	6.249e3					0.6	NO		bb		0.000
21	FUNCTION3 PFK	36.99	2.219e4					1.1	NO		bd		0.000
22	FUNCTION3 PFK	36.87	2.133e3					0.4	NO		bb		0.000
23	FUNCTION3 PFK	36.83	5.225e3					0.6	NO		bb		0.000
24	FUNCTION3 PFK	36.70	4.929e4					1.7	NO		bb		0.000
25	FUNCTION3 PFK	36.43	1.980e4					1.2	NO		bb		0.000
26	FUNCTION3 PFK	36.38	7.184e3					0.9	NO		bb		0.000
27	FUNCTION3 PFK	36.27	4.220e3					0.5	NO		bb		0.000
28	FUNCTION3 PFK	36.24	2.102e3					0.4	NO		bb		0.000
29	FUNCTION3 PFK	36.19	3.748e3					0.5	NO		bb		0.000
30	FUNCTION3 PFK	35.87	3.133e4					1.6	NO		db		0.000
31	FUNCTION3 PFK	35.83	1.912e4					1.5	NO		bd		0.000
32	FUNCTION3 PFK	35.78	2.675e3					0.4	NO		db		0.000
33	FUNCTION3 PFK	35.74	3.023e4					1.5	NO		dd		0.000
34	FUNCTION3 PFK	35.67	1.673e4					1.4	NO		bd		0.000
35	FUNCTION3 PFK	35.58	2.145e4					1.4	NO		db		0.000
36	FUNCTION3 PFK	35.53	1.268e4					1.1	NO		bd		0.000
37	FUNCTION3 PFK	37.67	2.243e4					1.6	NO		bb		0.000

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PFK3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	FUNCTION3 PFK	37.45	8.583e3					0.7	NO		db		0.000
39	FUNCTION3 PFK	37.43	4.891e3					0.7	NO		bd		0.000
40	FUNCTION3 PFK	37.30	6.956e3					0.6	NO		bb		0.000
41	FUNCTION3 PFK	37.23	5.682e3					0.7	NO		db		0.000
42	FUNCTION3 PFK	37.20	9.815e3					0.9	NO		dd		0.000
43	FUNCTION3 PFK	37.15	5.475e3					0.6	NO		dd		0.000
44	FUNCTION3 PFK	37.11	7.631e3					0.8	NO		bd		0.000
45	FUNCTION3 PFK	37.06	2.709e4					1.4	NO		db		0.000

PFK4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	40.40	1.889e5					2.4	NO		bb		
2	FUNCTION4 PFK	39.68	1.587e7					5.4	YES		bb		

PFK5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	43.63	9.422e3					1.5	NO		bb		
2	FUNCTION5 PFK	43.24	1.576e3					0.7	NO		bb		
3	FUNCTION5 PFK	43.00	1.263e4					1.7	NO		bb		
4	FUNCTION5 PFK	45.90	6.371e3					1.4	NO		bb		
5	FUNCTION5 PFK	45.34	1.310e3					0.6	NO		bb		
6	FUNCTION5 PFK	43.79	2.270e3					0.7	NO		bb		

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ETHERS1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	27.16	2.360e2					3.4	YES		bb		0.000
2	FUNCTION1 HXCD...	26.52	1.410e2					3.2	YES		db		0.000
3	FUNCTION1 HXCD...	26.41	1.480e2					3.3	YES		bd		0.000
4	FUNCTION1 HXCD...	26.16	8.707e1					1.9	NO		db		0.000
5	FUNCTION1 HXCD...	26.10	7.515e1					2.1	NO		bd		0.000
6	FUNCTION1 HXCD...	25.79	8.971e1					2.2	NO		bb		0.000
7	FUNCTION1 HXCD...	25.63	1.156e2					2.5	NO		bb		0.000
8	FUNCTION1 HXCD...	24.52	1.119e2					2.7	NO		db		0.000
9	FUNCTION1 HXCD...	24.43	1.844e2					3.5	YES		bd		0.000
10	FUNCTION1 HXCD...	23.75	1.728e2					2.1	NO		bb		0.000
11	FUNCTION1 HXCD...	21.31	8.251e1					1.7	NO		bb		0.000

ETHERS2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	31.95	1.010e2					1.7	NO		bb		0.000
2	FUNCTION2 HPCD...	31.18	4.333e2					5.6	YES		bb		0.000
3	FUNCTION2 HPCD...	30.70	7.244e1					2.1	NO		bb		0.000
4	FUNCTION2 HPCD...	30.31	7.131e1					1.6	NO		bb		0.000
5	FUNCTION2 HPCD...	29.76	7.422e1					1.6	NO		bb		0.000
6	FUNCTION2 HPCD...	29.04	7.307e1					1.9	NO		bb		0.000
7	FUNCTION2 HPCD...	28.55	7.813e1					2.1	NO		bb		0.000

ETHERS4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	36.51	1.400e2					5.4	YES		bb		0.000
2	FUNCTION3 OCDPE	35.04	1.909e2					5.6	YES		db		0.000
3	FUNCTION3 OCDPE	34.94	2.251e2					6.4	YES		bd		0.000

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ETHERS5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	40.60	9.374e1					3.5	YES		bb		0.000
2	FUNCTION4 NCDPE	40.25	1.903e2					3.2	YES		bb		0.000
3	FUNCTION4 NCDPE	39.09	7.390e1					1.9	NO		bb		0.000
4	FUNCTION4 NCDPE	38.97	7.768e1					2.4	NO		bb		0.000
5	FUNCTION4 NCDPE	41.21	8.604e1					3.3	YES		bb		0.000
6	FUNCTION4 NCDPE	41.01	1.089e2					3.1	YES		bb		0.000
7	FUNCTION4 NCDPE	40.86	1.930e2					2.9	NO		db		0.000
8	FUNCTION4 NCDPE	40.74	9.692e1					2.6	NO		bd		0.000

ETHERS6

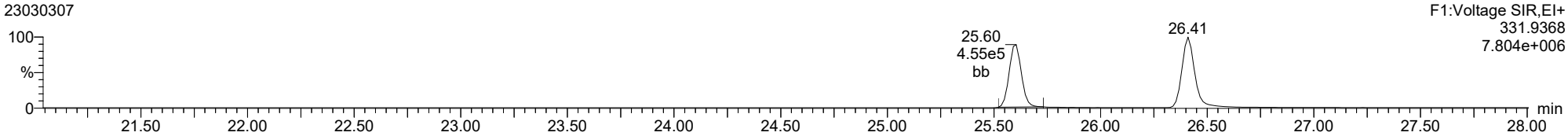
	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 DCDPE	44.90	9.291e1					2.4	NO		bb		0.000

Dataset: T:\Autospec\Processed Data Batch\230303ICIH.qld
Last Altered: Monday, March 06, 2023 10:57:27 Pacific Standard Time
Printed: Monday, March 06, 2023 11:34:37 Pacific Standard Time

Method: T:\Autospec\Methods\Dioxin230303.mdb 03 Mar 2023 14:58:50
Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 10:57:27

ID: CS3CW, Name: 23030307, Date: 03-Mar-2023, Time: 14:06:39, Conditions: AUTOSPEC01, User: pk

13C-1234-TCDD



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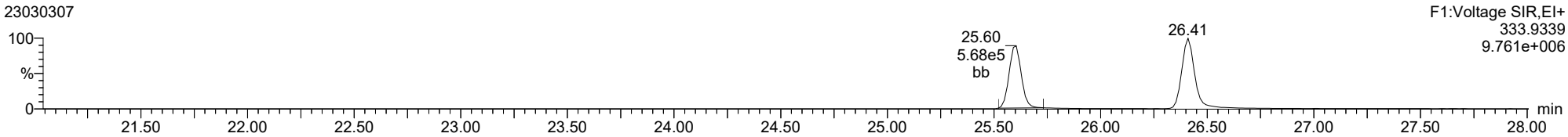
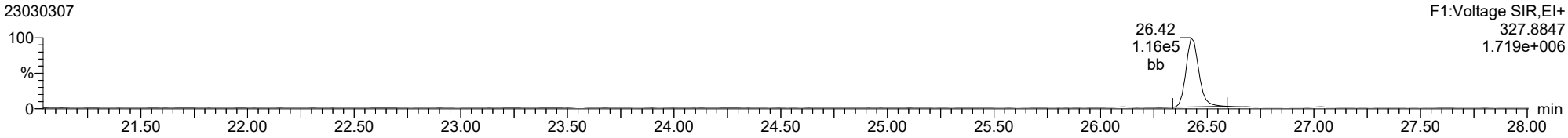


37CL-2378-TCDD



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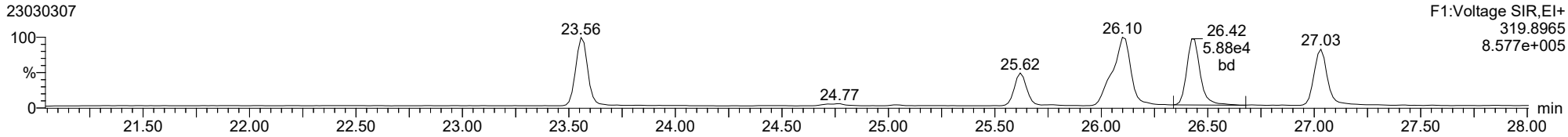

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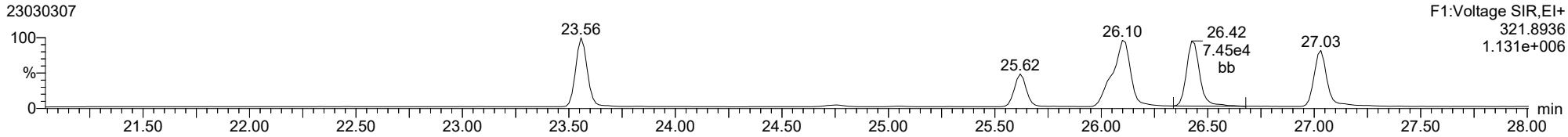

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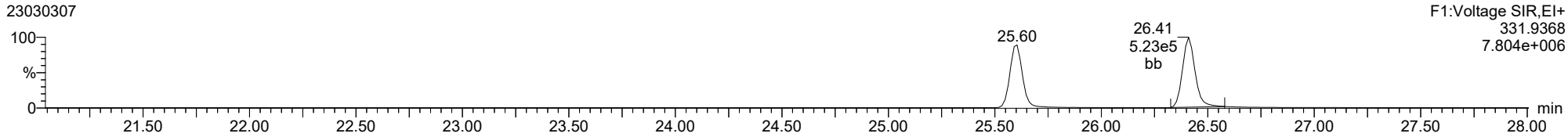

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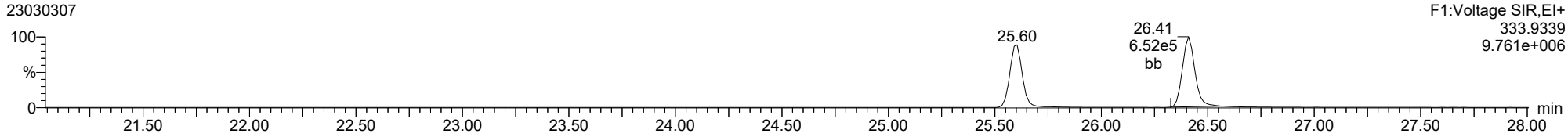

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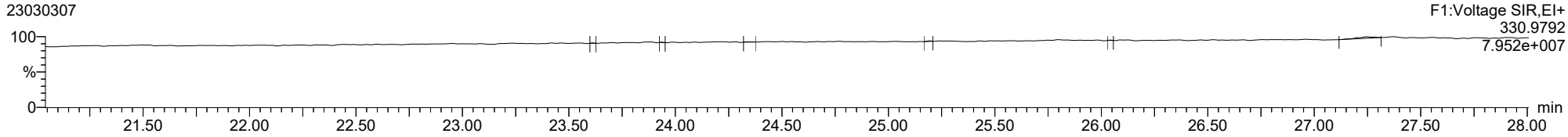

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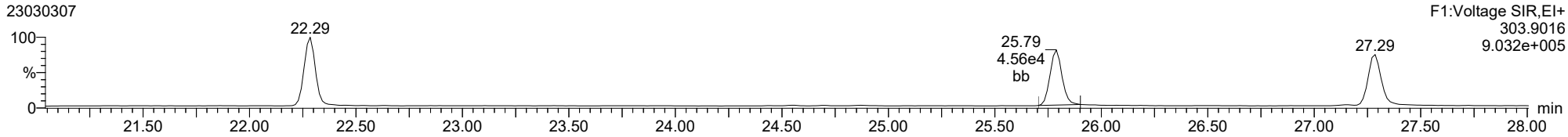

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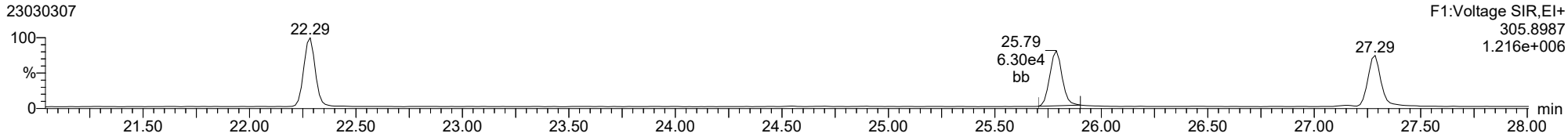

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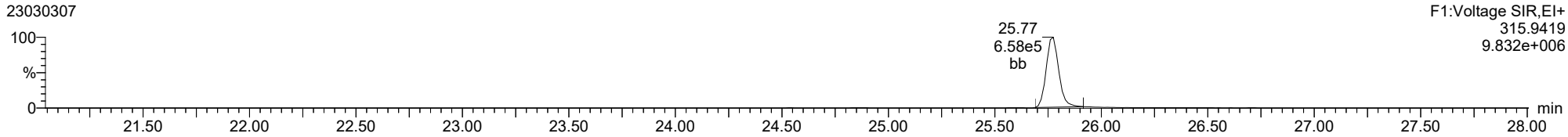

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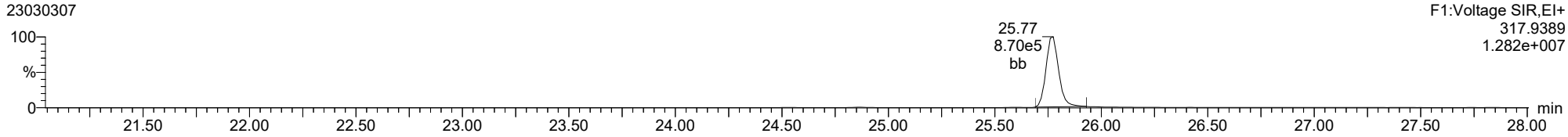

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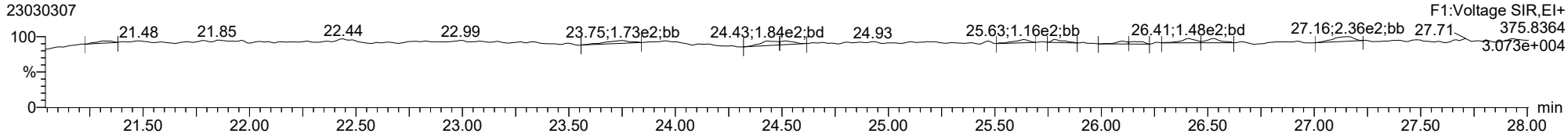

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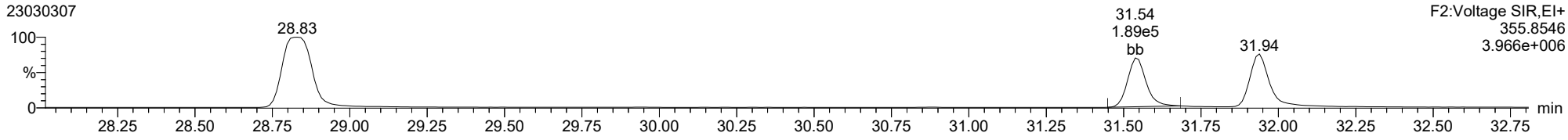
12378-PeCDD



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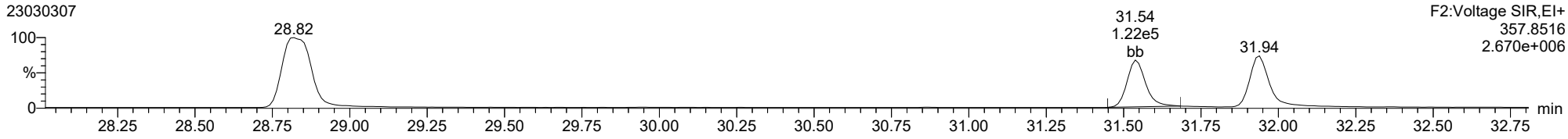

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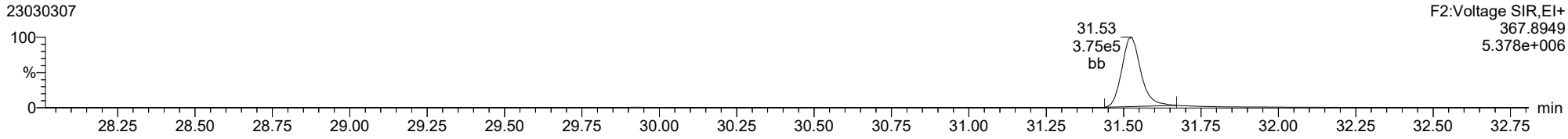

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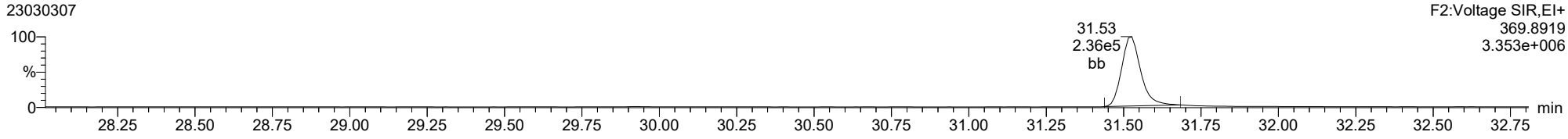

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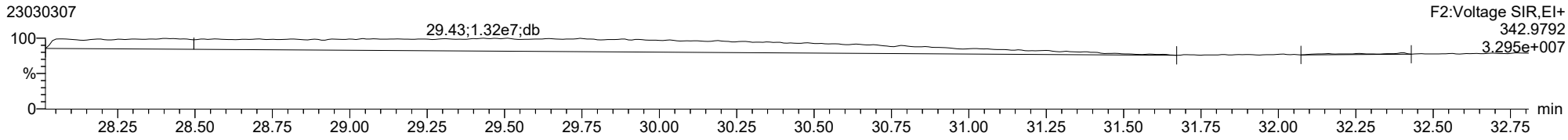

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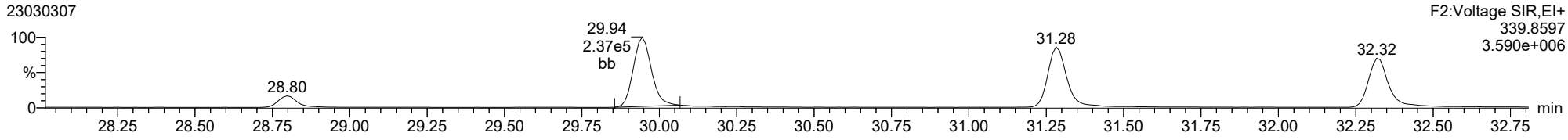

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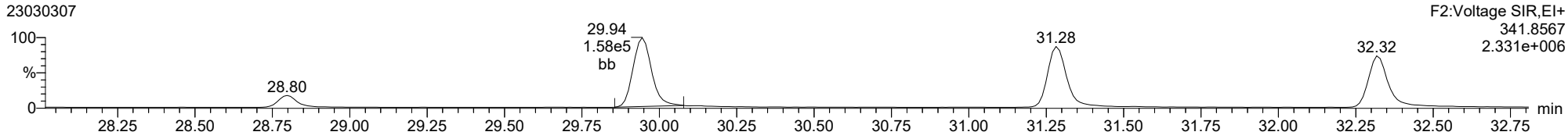

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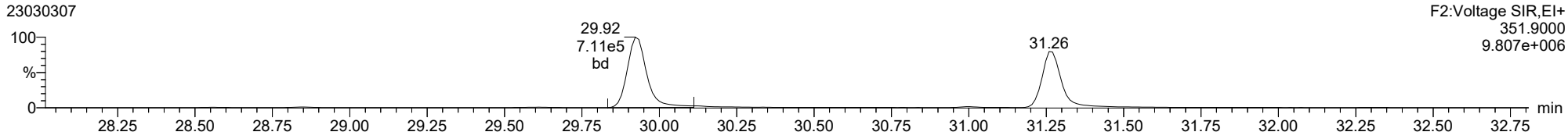

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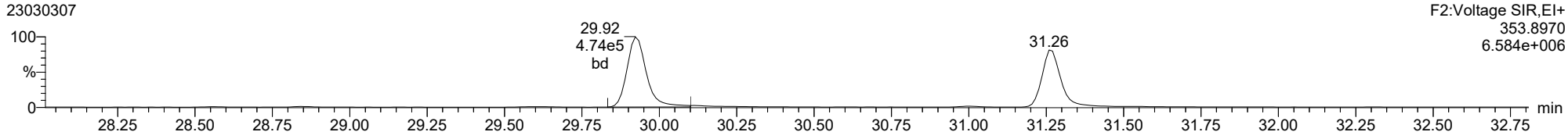

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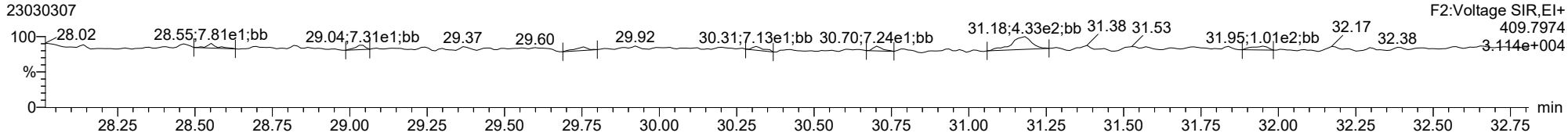

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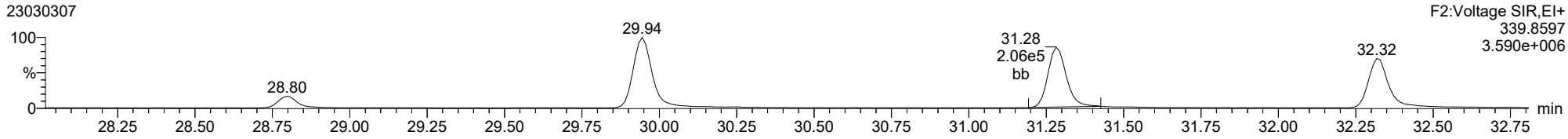

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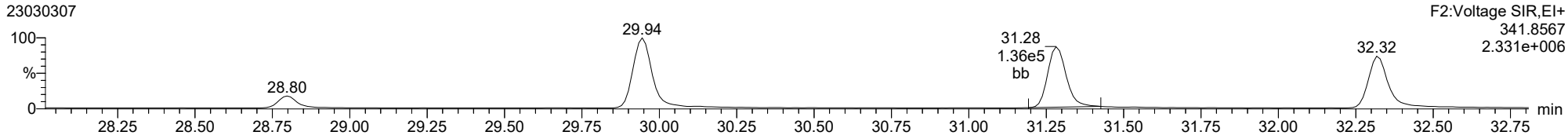

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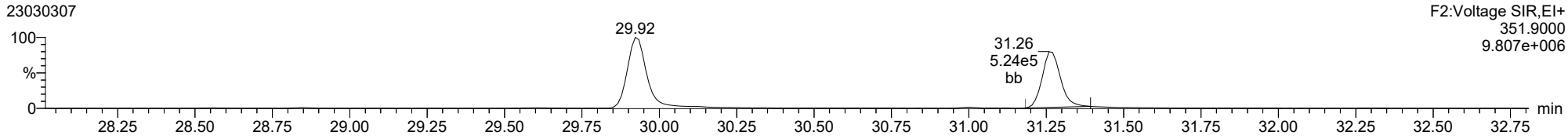

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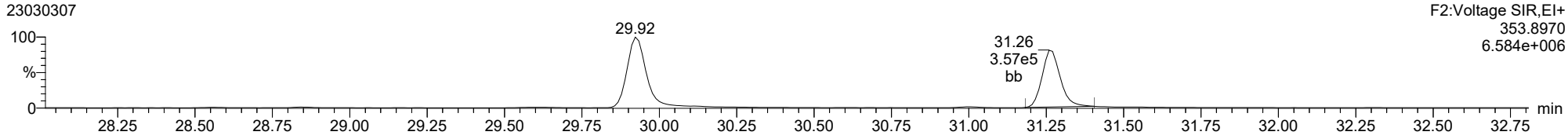

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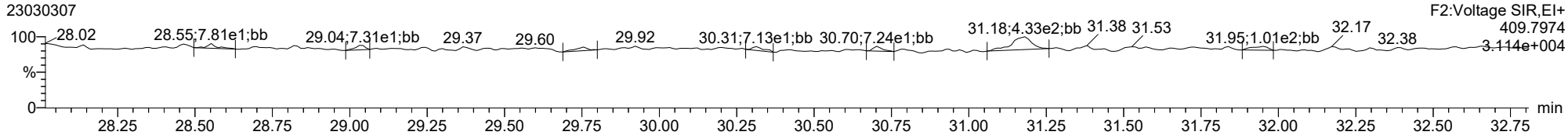

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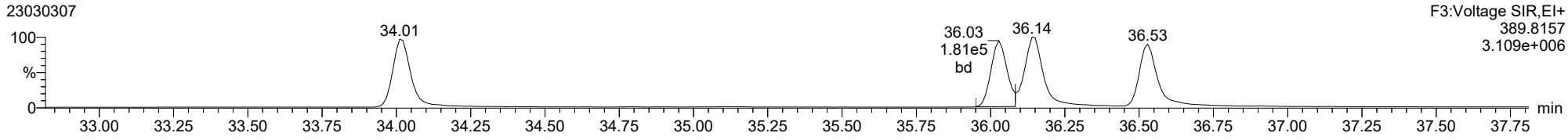

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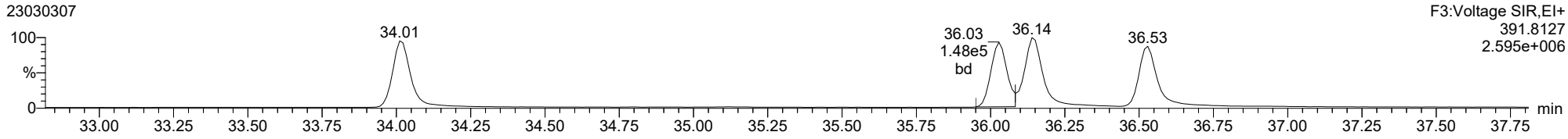

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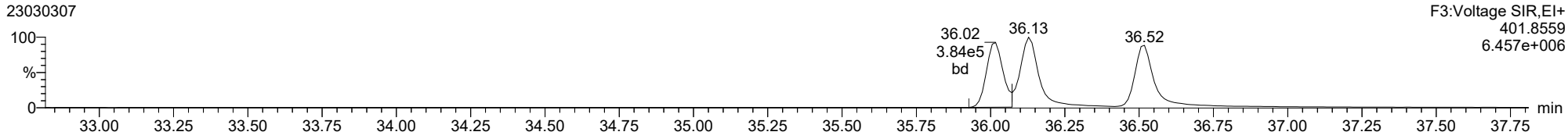

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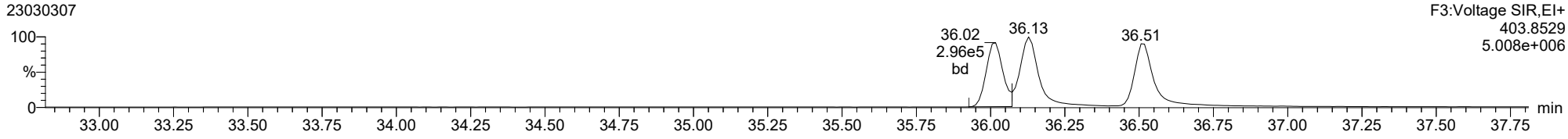

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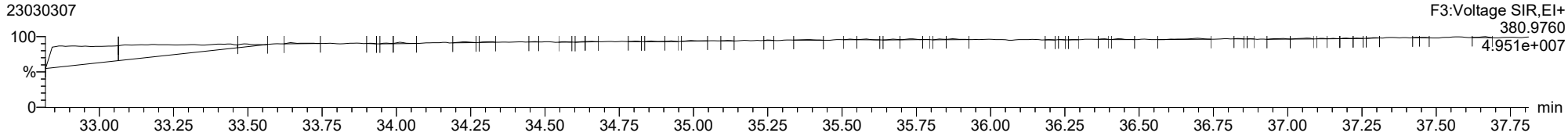

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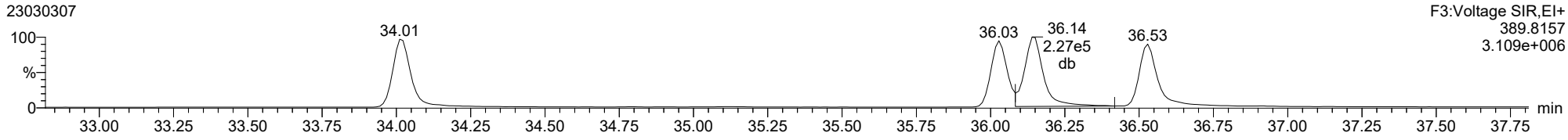

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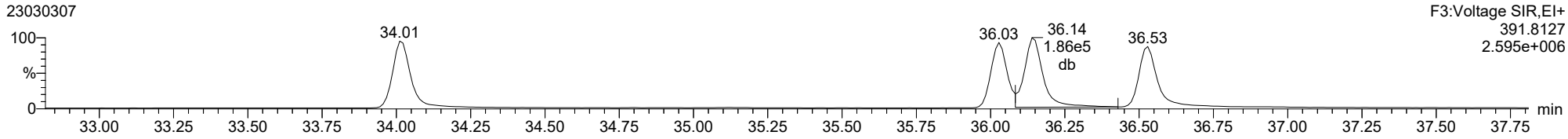

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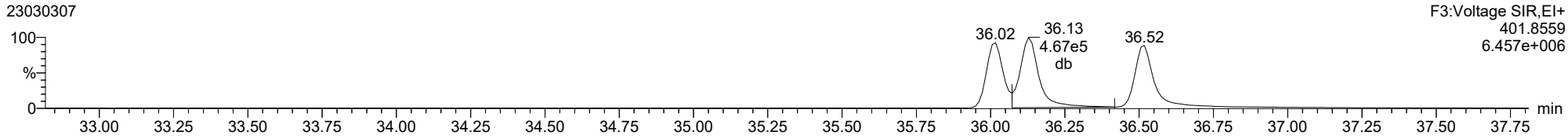

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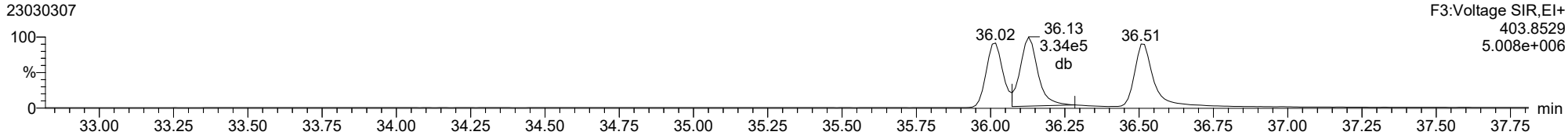

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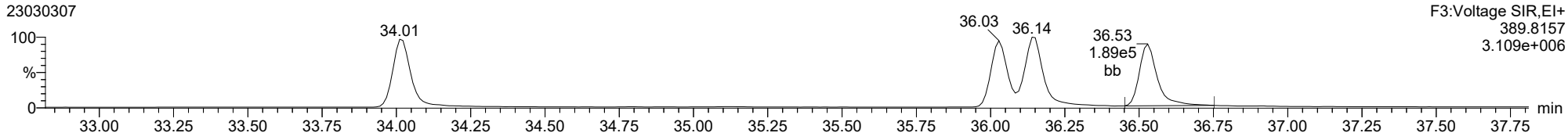

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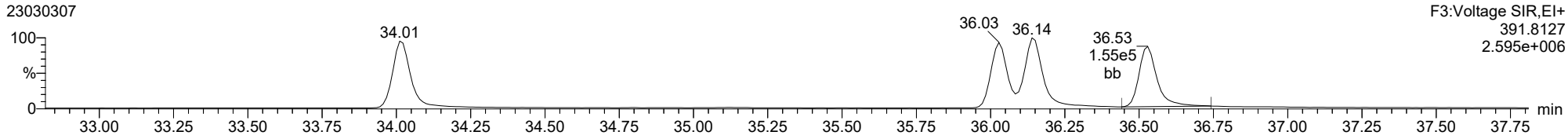

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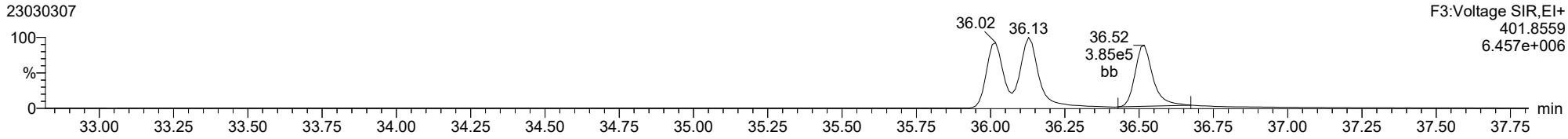

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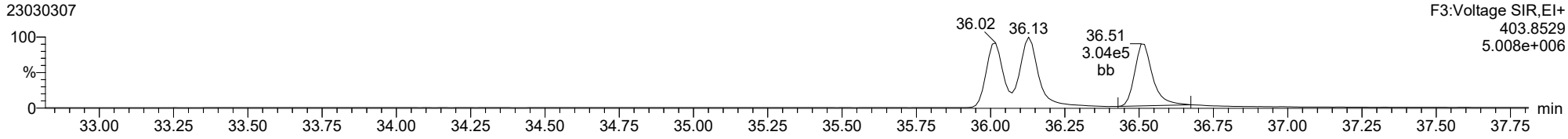

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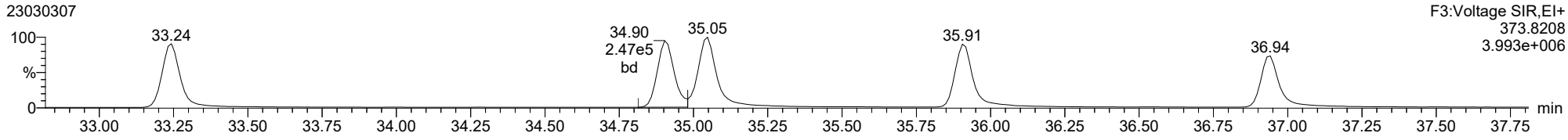

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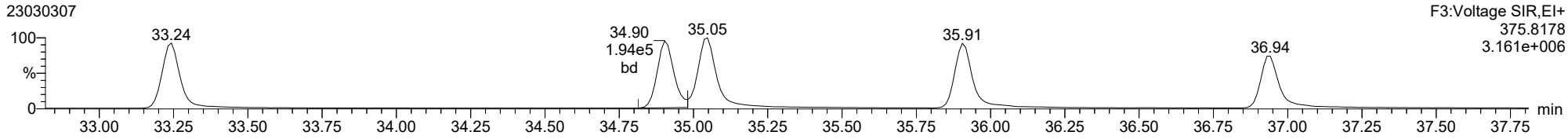

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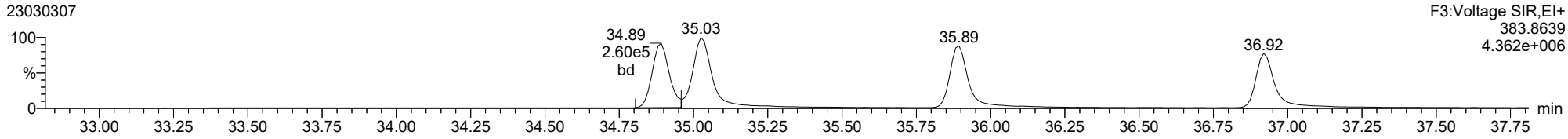

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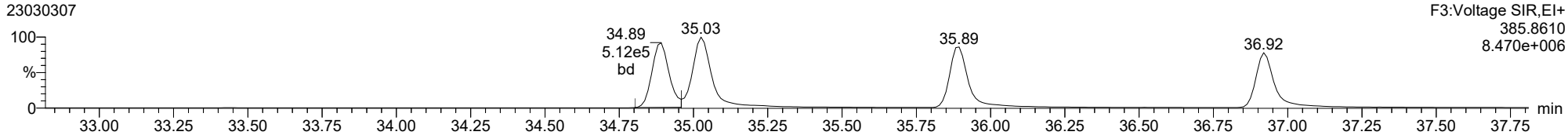
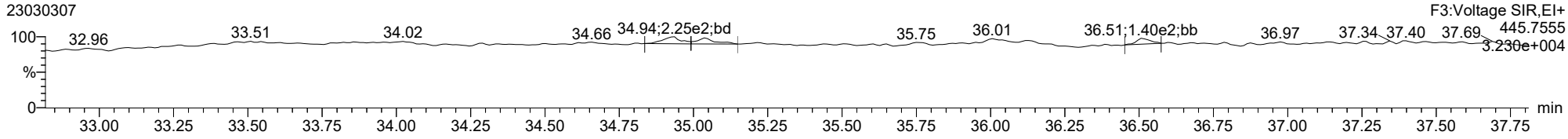


FUNCTION3 OCDPE



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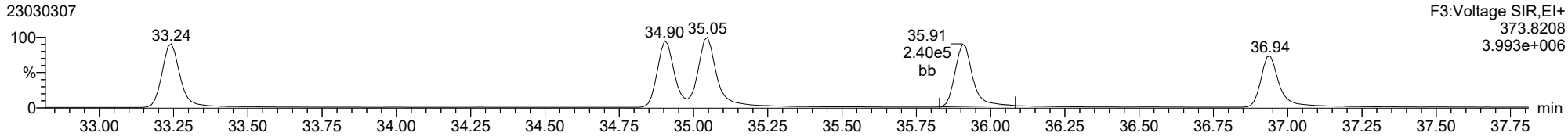

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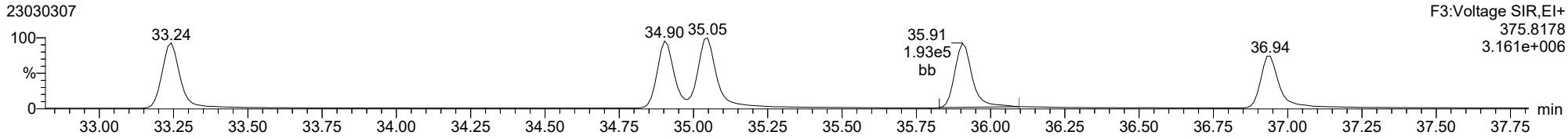

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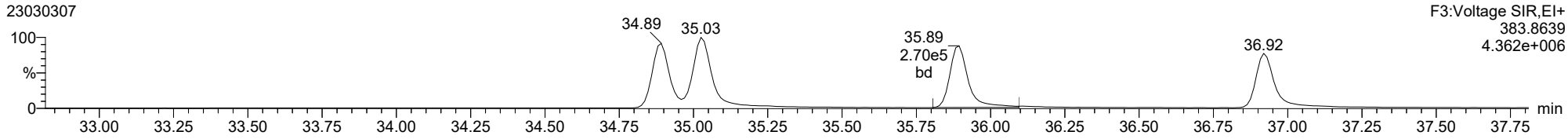

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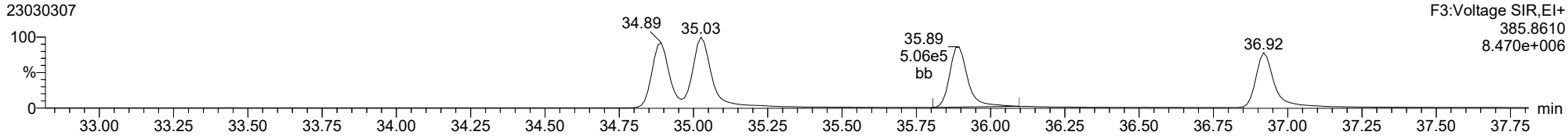

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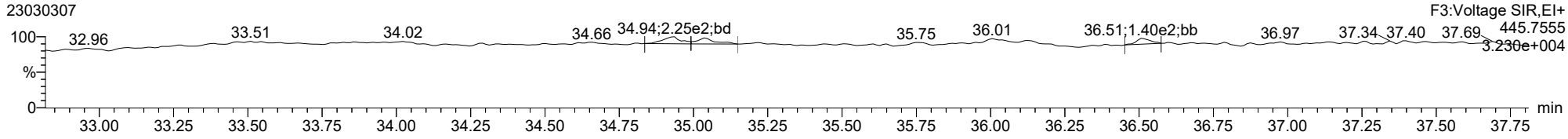

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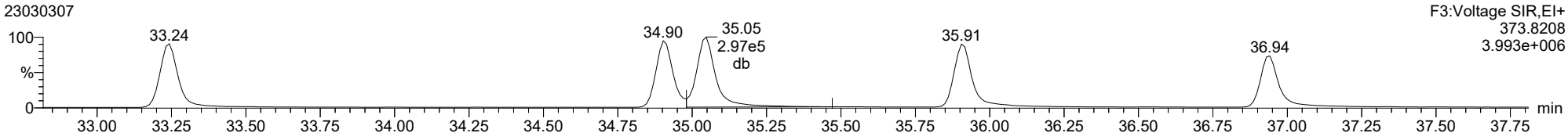

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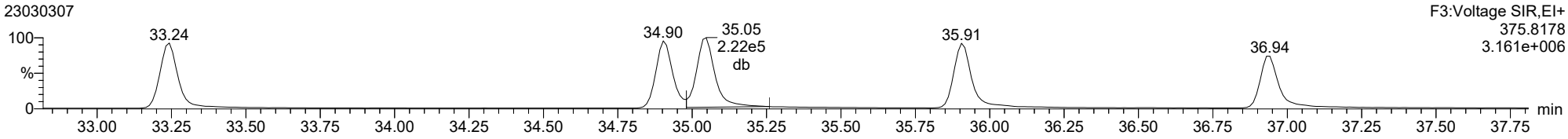

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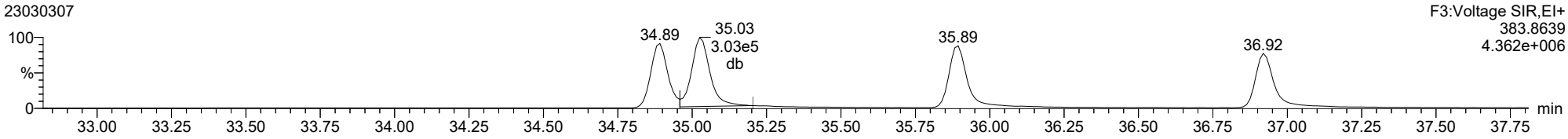

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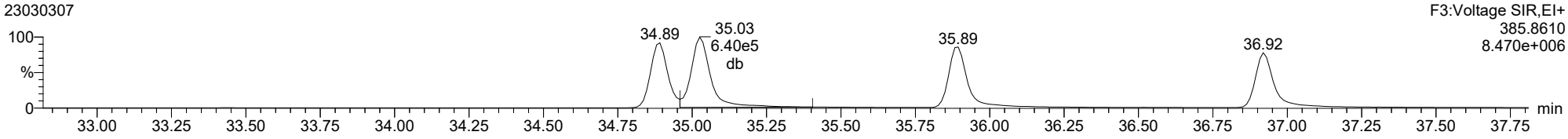

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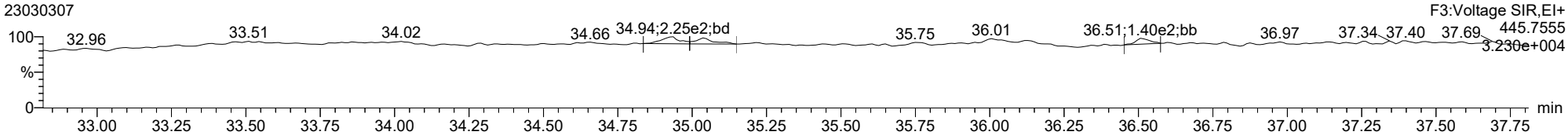

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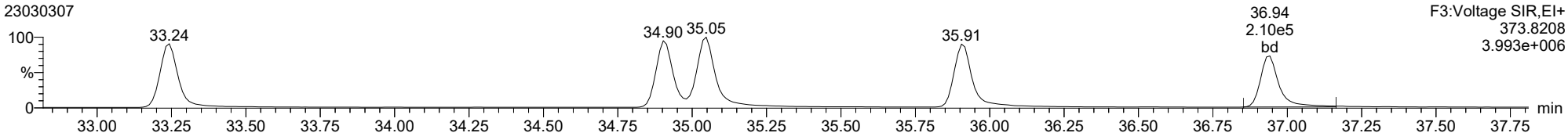

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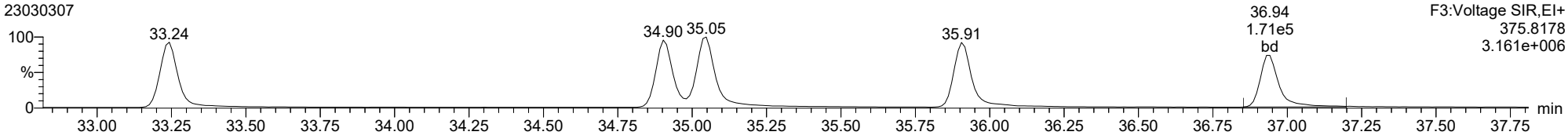

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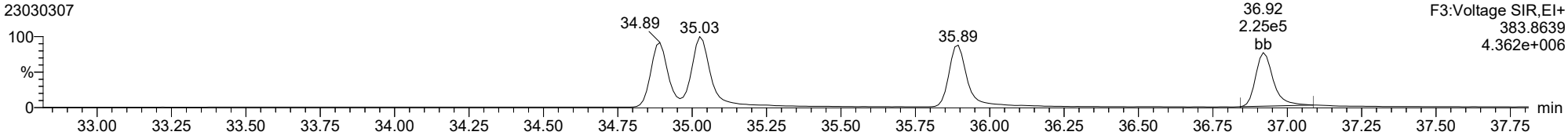

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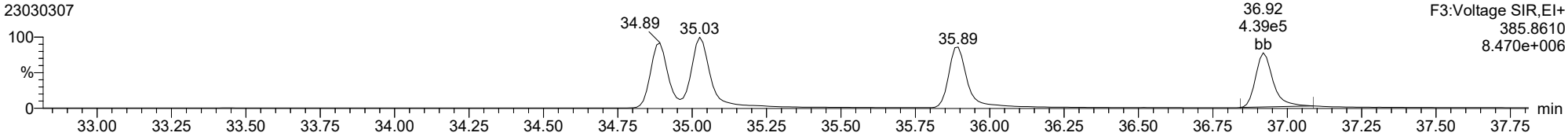

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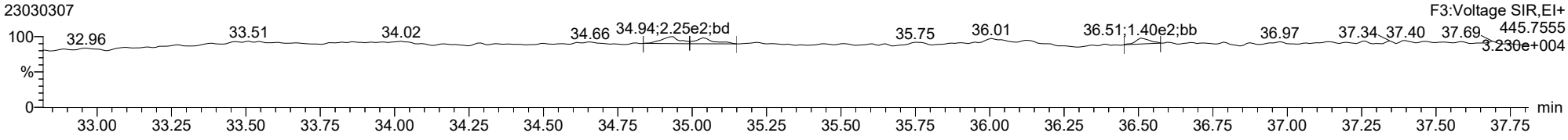

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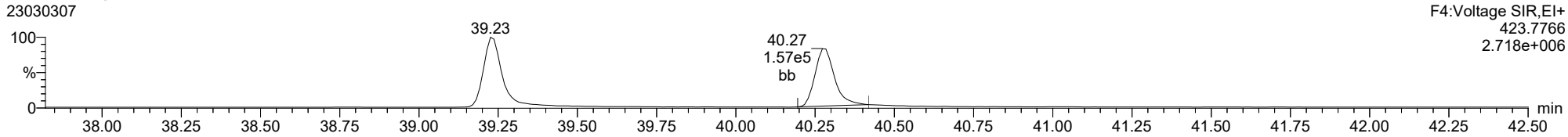

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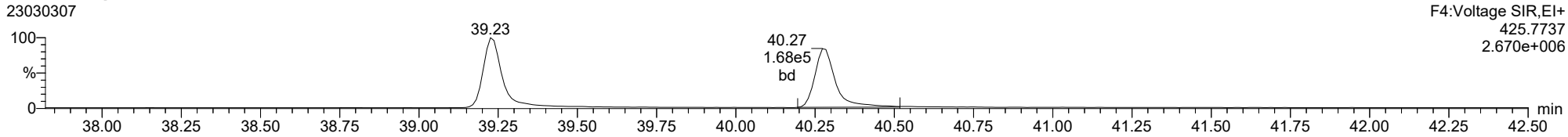

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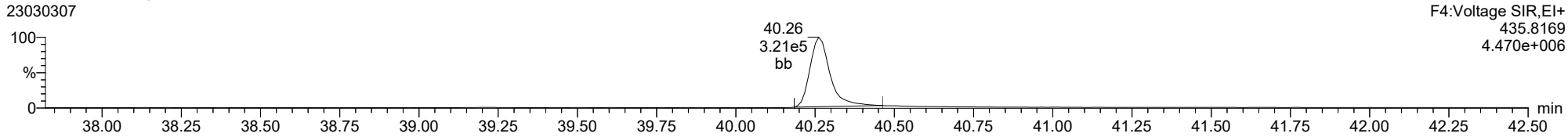

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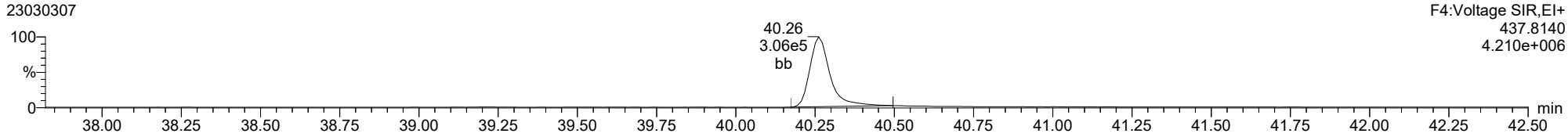
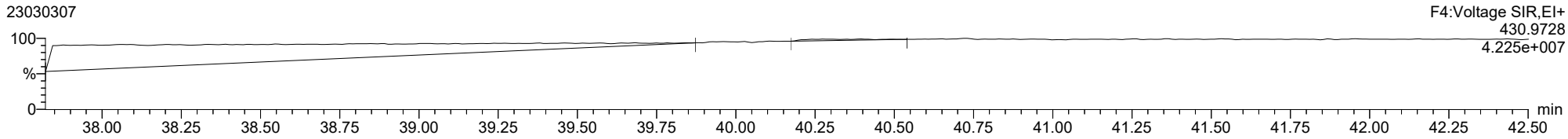


FUNCTION4 PFK



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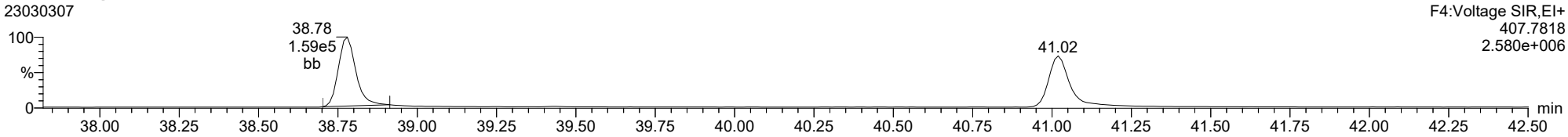

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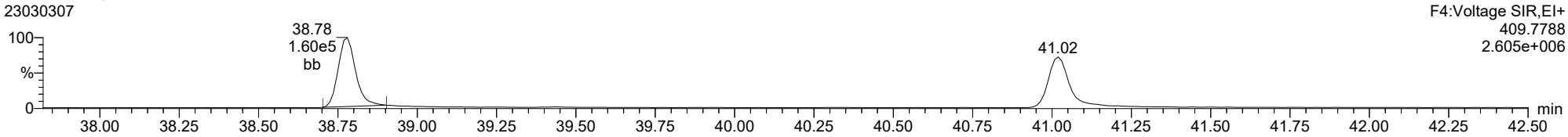

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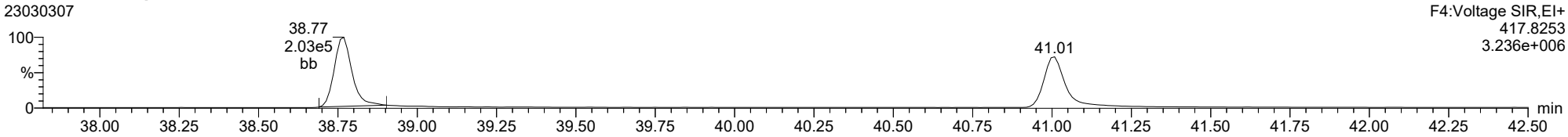

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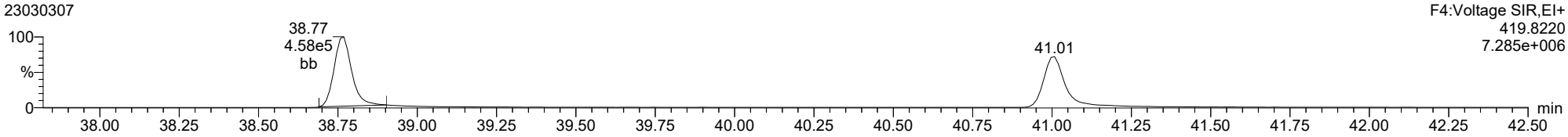
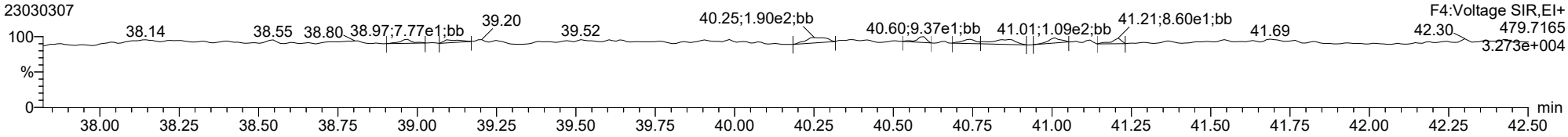


FUNCTION4 NCDPE



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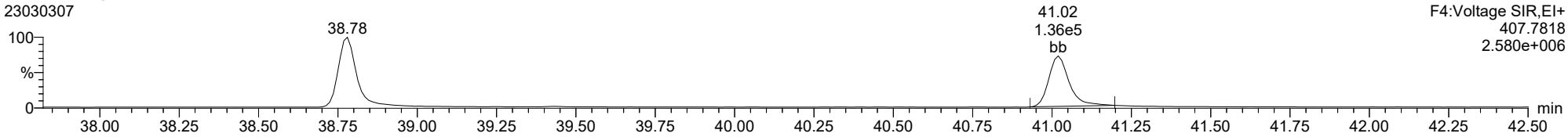

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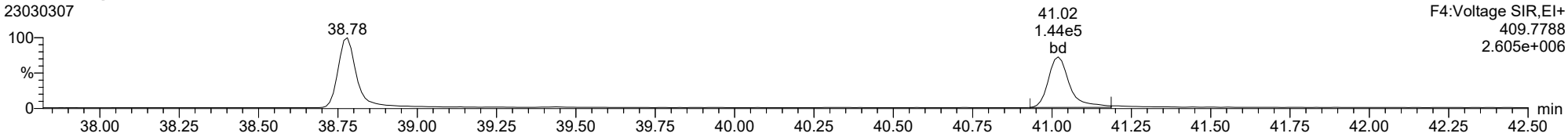

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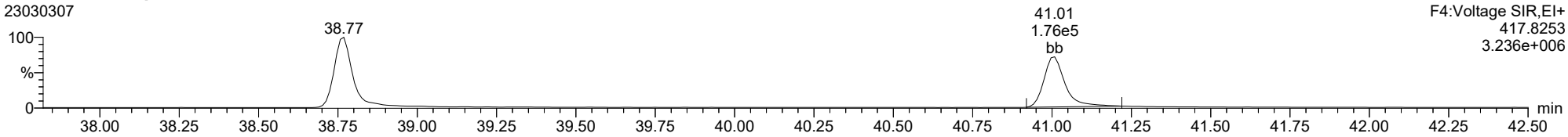

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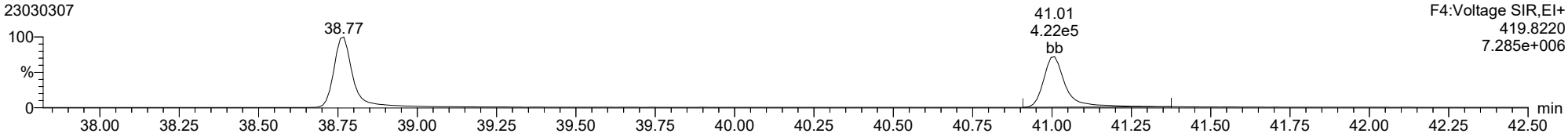

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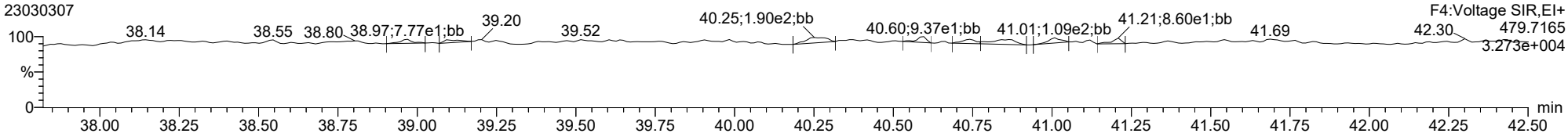

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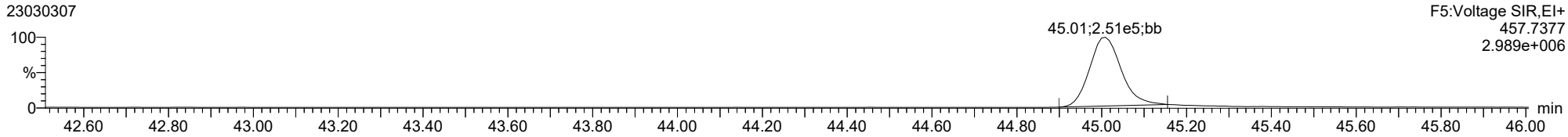

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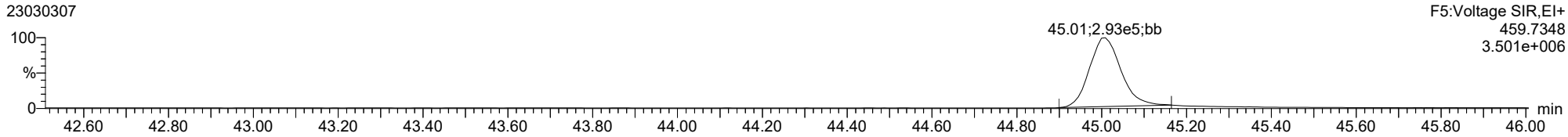

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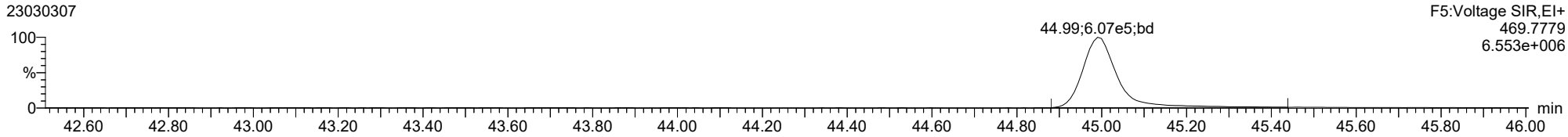

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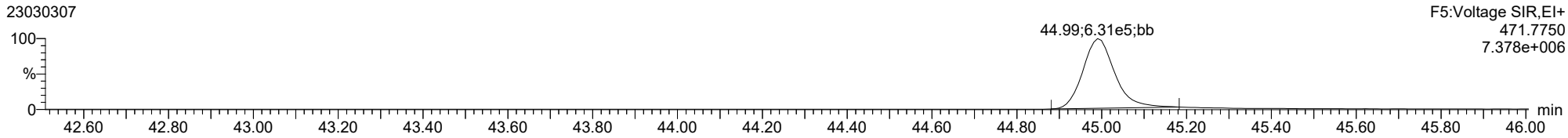
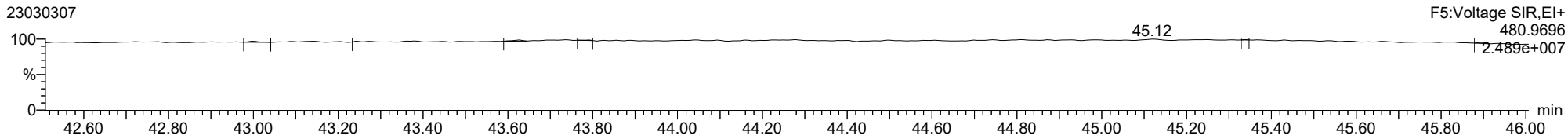


FUNCTION5 PFK



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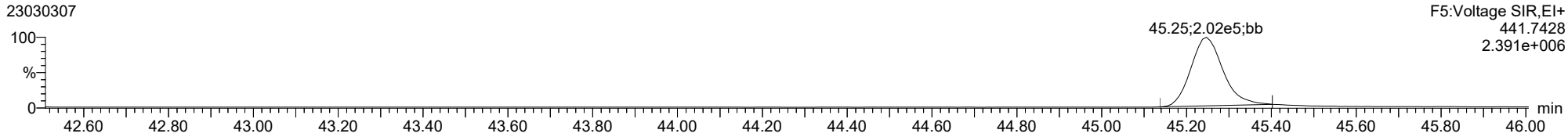

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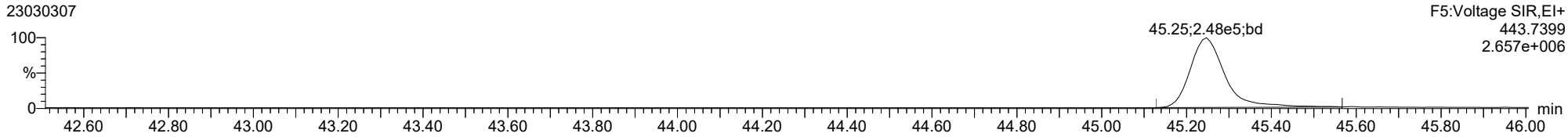

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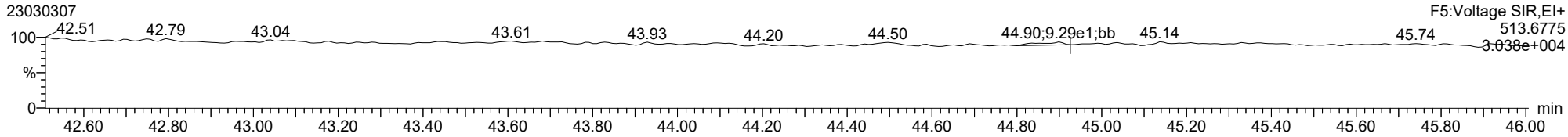

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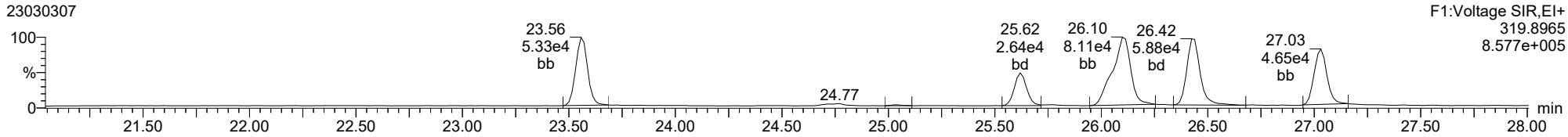
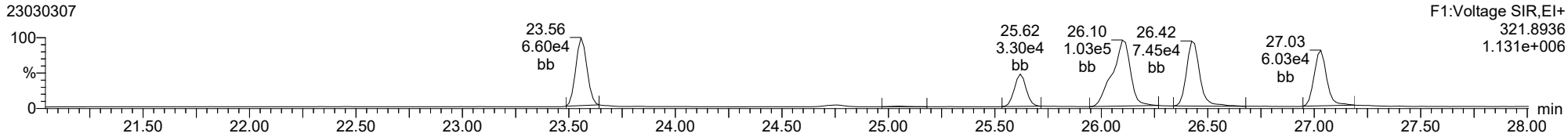
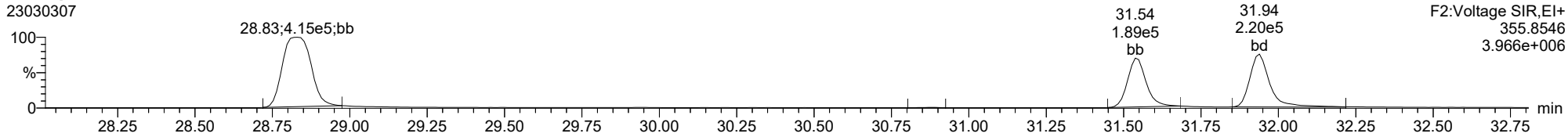
Total-tetradioxins



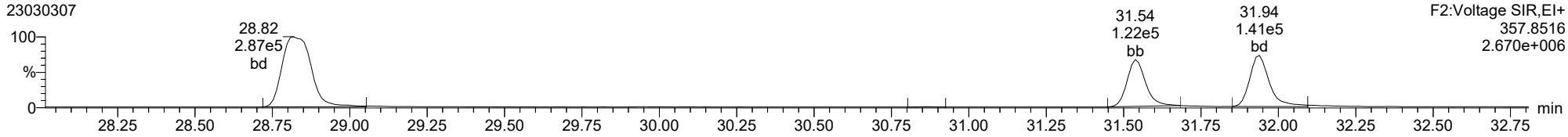
Total-tetradioxins



Total-pentadioxins



Total-pentadioxins



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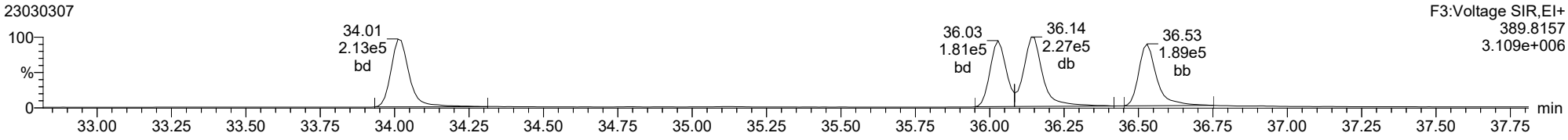
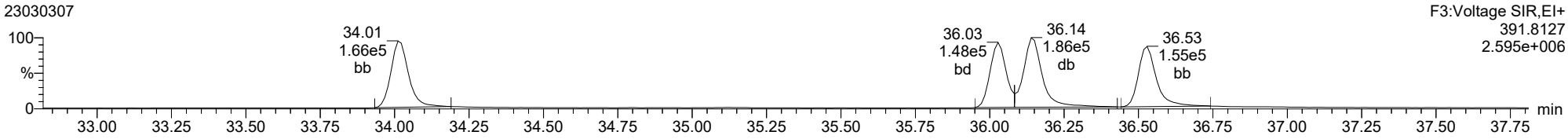
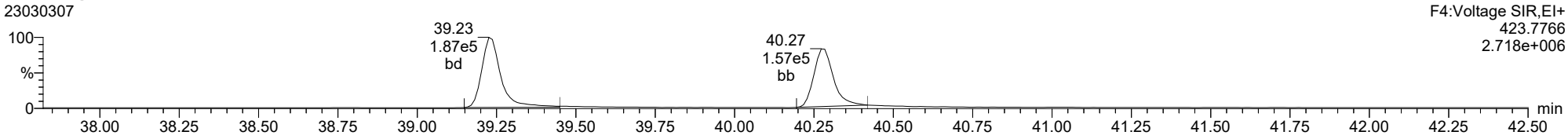
Total-hexadioxins



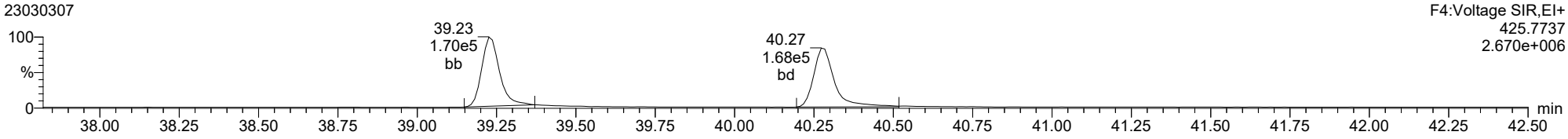
Total-hexadioxins



Total-heptadioxins



Total-heptadioxins



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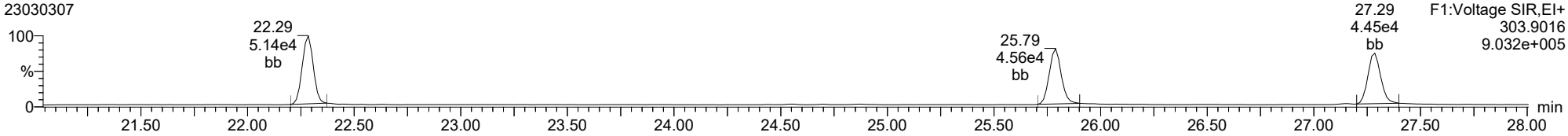
Total-tetrafurans



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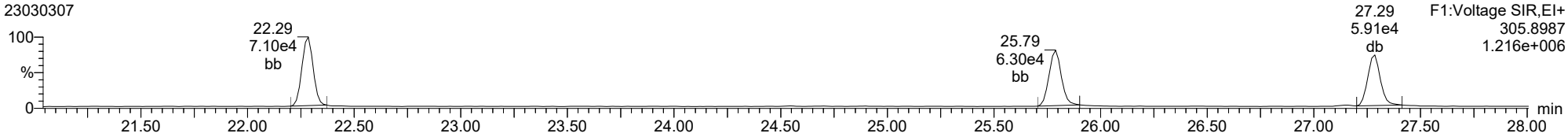

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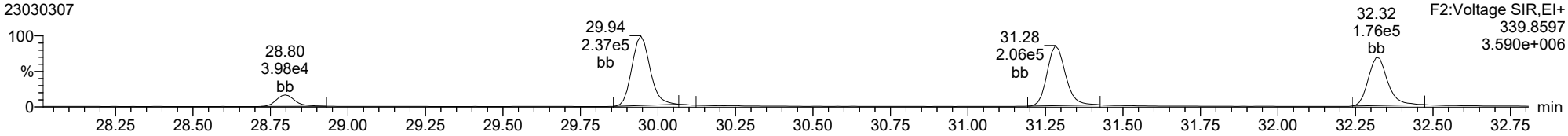

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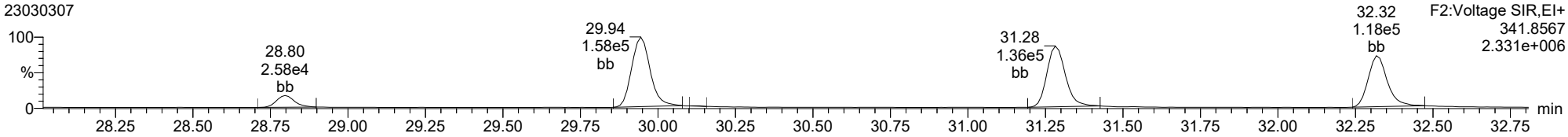

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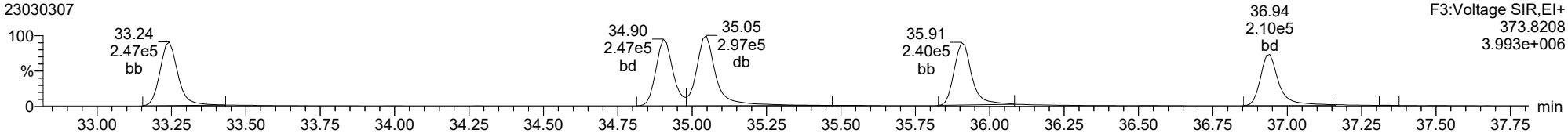
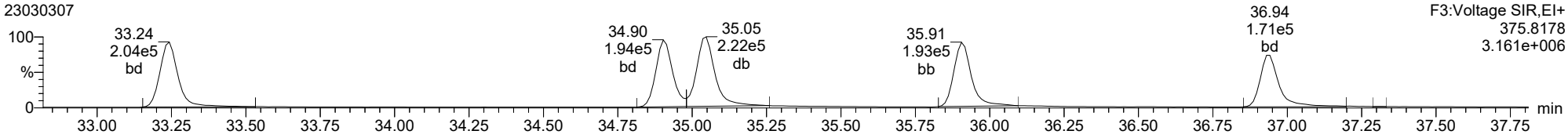
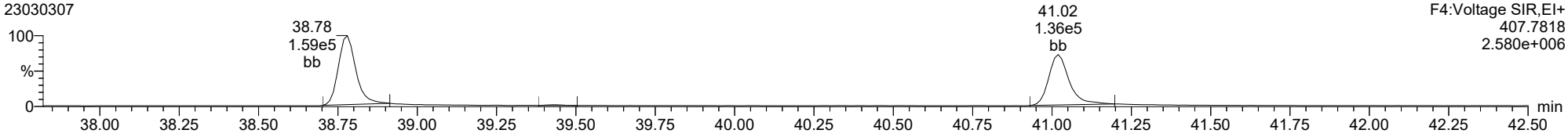
Total-hexafurans



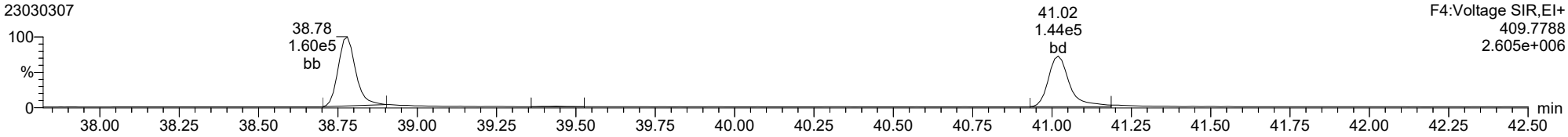
Total-hexafurans



Total-heptafurans



Total-heptafurans



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Last Altered: Monday, March 06, 2023 10:57:27 Pacific Standard Time
Printed: Monday, March 06, 2023 11:34:51 Pacific Standard Time

Method: T:\Autospec\Methods\Dioxin230303.mdb 03 Mar 2023 14:58:50
Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 10:57:27

ID: CS4CW, Name: 23030308, Date: 03-Mar-2023, Time: 14:59:53, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	25.788	1.001	2.145e5	2.910e5	0.702	0.737	0.770	1085	2356	3.19e6	4.36e6	2939.3	1849.8	NO	bb	bb	41.038
12378-PeCDF	29.944	1.000	1.256e6	8.416e5	0.679	1.492	1.550	4273	3650	1.86e7	1.25e7	4360.5	3425.9	NO	bb	bb	202.935
23478-PeCDF	31.292	1.001	1.346e6	8.943e5	0.786	1.505	1.550	4273	3650	2.02e7	1.34e7	4738.5	3680.0	NO	bb	bb	201.175
123478-HxCDF	34.913	1.001	1.546e6	1.218e6	1.166	1.269	1.240	1919	2508	2.36e7	1.86e7	12323.4	7421.9	NO	bd	bd	197.711
234678-HxCDF	35.916	1.001	1.547e6	1.307e6	1.140	1.184	1.240	1919	2508	2.33e7	1.85e7	12125.4	7387.3	NO	bb	bd	210.207
123678-HxCDF	35.047	1.000	1.740e6	1.369e6	1.091	1.271	1.240	1919	2508	2.57e7	2.04e7	13394.0	8153.6	NO	db	db	189.797
123789-HxCDF	36.941	1.000	1.209e6	1.036e6	1.137	1.167	1.240	1919	2508	1.81e7	1.44e7	9441.6	5749.5	NO	bb	bd	200.361
1234678-HpCDF	38.779	1.000	8.720e5	8.418e5	1.003	1.036	1.050	3326	3780	1.44e7	1.42e7	4339.3	3745.4	NO	bb	bb	204.650
1234789-HpCDF	41.019	1.000	7.221e5	7.262e5	0.953	0.994	1.050	3326	3780	1.01e7	1.02e7	3041.3	2689.4	NO	bb	bb	208.465
OCDF	45.255	1.006	1.195e6	1.333e6	0.778	0.897	0.890	1809	2070	1.43e7	1.59e7	7923.8	7701.9	NO	bb	bb	419.788
2378-TCDD	26.438	1.001	2.573e5	3.218e5	1.149	0.799	0.770	1559	1107	3.81e6	4.84e6	2446.0	4371.1	NO	bb	bb	39.968
12378-PeCDD	31.549	1.001	1.294e6	8.446e5	1.022	1.532	1.550	1566	1736	1.89e7	1.24e7	12077.0	7164.9	NO	bb	bb	199.637
123478-HxCDD	36.027	1.000	1.162e6	9.482e5	0.996	1.225	1.240	1816	1276	1.93e7	1.57e7	10622.2	12327.7	NO	bd	bd	198.133
123678-HxCDD	36.150	1.001	1.363e6	1.125e6	1.001	1.212	1.240	1816	1276	1.97e7	1.61e7	10823.8	12618.8	NO	db	db	204.224
123789-HxCDD	36.528	1.011	1.168e6	9.477e5	0.907	1.232	1.240	1816	1276	1.77e7	1.44e7	9764.9	11291.0	NO	bb	bb	203.974
1234678-HpCDD	40.283	1.001	8.284e5	8.038e5	1.039	1.031	1.050	3177	2938	1.22e7	1.19e7	3841.2	4046.8	NO	bb	bb	198.376
OCDD	45.008	1.000	1.293e6	1.512e6	0.920	0.855	0.890	1475	2373	1.59e7	1.85e7	10744.0	7810.6	NO	bb	bb	394.016
13C-2378-TCDF	25.774	1.007	7.645e5	9.914e5	1.620	0.771	0.770	1843	2282	1.15e7	1.49e7	6238.3	6526.6	NO	bb	bb	101.535
13C-12378-PeCDF	29.933	1.169	9.119e5	6.098e5	1.240	1.495	1.550	3738	4574	1.28e7	8.50e6	3418.3	1857.5	NO	bd	bd	114.934
13C-23478-PeCDF	31.270	1.221	8.522e5	5.645e5	1.118	1.510	1.550	3738	4574	1.28e7	8.47e6	3423.2	1851.3	NO	bb	bb	118.746
13C-123478-HxCDF	34.891	0.956	4.043e5	7.946e5	1.168	0.509	0.510	3379	2646	6.26e6	1.23e7	1851.5	4643.3	NO	bd	bd	93.689
13C-123678-HxCDF	35.036	0.959	5.122e5	9.895e5	1.386	0.518	0.510	3379	2646	6.72e6	1.32e7	1988.7	4975.1	NO	db	dd	98.879
13C-234678-HxCDF	35.894	0.983	4.066e5	7.845e5	1.129	0.518	0.510	3379	2646	6.03e6	1.18e7	1785.1	4452.3	NO	bb	bb	96.294
13C-123789-HxCDF	36.930	1.011	3.312e5	6.542e5	0.932	0.506	0.510	3379	2646	4.85e6	9.52e6	1434.9	3598.2	NO	bb	bb	96.556
13C-1234678-HpCDF	38.768	1.062	2.524e5	5.825e5	0.895	0.433	0.440	1935	3511	4.16e6	9.49e6	2148.5	2703.4	NO	bb	bb	85.151
13C-1234789-HpCDF	41.007	1.123	2.205e5	5.084e5	0.770	0.434	0.440	1935	3511	3.02e6	6.92e6	1559.8	1971.4	NO	bb	bb	86.451
13C-1234-TCDD	25.605	0.000	4.743e5	5.931e5	1.000	0.800	0.770	2271	1813	7.33e6	9.12e6	3228.4	5028.5	NO	bb	bb	100.000
13C-2378-TCDD	26.410	1.031	5.640e5	6.974e5	1.152	0.809	0.770	2271	1813	8.09e6	1.01e7	3563.4	5571.0	NO	bb	bb	102.553
13C-12378-PeCDD	31.526	1.231	6.480e5	4.003e5	0.829	1.619	1.550	1212	1529	9.47e6	5.85e6	7814.9	3827.1	NO	bb	bb	118.505
13C-123478-HxCDD	36.016	0.986	6.052e5	4.646e5	0.995	1.303	1.240	1807	1475	9.78e6	7.54e6	5412.5	5108.2	NO	bd	bd	98.154
13C-123678-HxCDD	36.127	0.989	6.753e5	5.418e5	1.157	1.246	1.240	1807	1475	1.01e7	8.01e6	5594.1	5426.8	NO	db	db	96.059
13C-1234678-HpCDD	40.261	1.102	3.968e5	3.950e5	0.840	1.005	1.050	2357	2248	5.68e6	5.37e6	2408.3	2387.8	NO	bb	bb	86.051
13C-OCDD	44.999	1.232	7.332e5	8.149e5	0.767	0.900	0.890	1459	1173	8.67e6	9.61e6	5943.8	8191.6	NO	bb	bb	184.151
13C-123789-HxCDD	36.518	0.000	6.173e5	4.781e5	1.000	1.291	1.240	1807	1475	9.34e6	7.24e6	5171.1	4908.4	NO	bb	bb	100.000
37CL-2378-TCDD	26.438	1.033	5.280e5		1.288			2576		7.74e6		3003.1			bb		38.410

Dataset: T:\Autospec\Processed Data Batch\230303ICIH.qld
Last Altered: Monday, March 06, 2023 10:57:27 Pacific Standard Time
Printed: Monday, March 06, 2023 11:34:51 Pacific Standard Time

ID: CS4CW, Name: 23030308, Date: 03-Mar-2023, Time: 14:59:53, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF					0.802		0.770	1085	2356								
1289-TCDF					0.678		0.770	1085	2356								
13468-PECDF					1.246		1.550	728	1112								
12389-PECDF					0.496		1.550	4273	3650								
123468-HXCDF					1.169		1.240	1919	2508								
1368-TCDD					1.015		0.770	1559	1107								
1289-TCDD					0.909		0.770	1559	1107								
12479-PECDD					2.301		1.550	1566	1736								
12389-PECDD					1.184		1.550	1566	1736								
124679-HXCDD					1.115		1.240	1816	1276								
1234679-HPCDD					1.137		1.050	3177	2938								
Total-tetrafurans			2.178e5		0.727			1085		3.24e6							41.692
Total-penta1			0.000e0					728		0.00e0							
Total-pentafurans			2.604e6		0.654			4273		3.89e7							404.382
Total-hexafurans			6.043e6		1.141			1919		9.07e7							798.266
Total-heptafurans			1.594e6		0.978			3326		2.45e7							413.115
Total-Furans			1.165e7		0.922			1085		1.72e8							2077.243
Total-tetradioxins			2.634e5		1.024			1559		3.88e6							41.026
Total-pentadioxins			1.295e6		1.502			1566		1.89e7							199.743
Total-hexadioxins			3.693e6		1.005			1816		5.67e7							606.331
Total-heptadioxins			8.286e5		1.088			3177		1.22e7							198.425
Total-Dioxins			7.373e6		1.130			1559		1.08e8							1439.540
Total-TEQ			1.903e7					1559		2.79e8							3516.783
FUNCTION1 PFK			2.654e6					566854		2.19e6							
FUNCTION2 PFK			2.398e5					242860		6.75e6							0.000
FUNCTION3 PFK			5.441e7					394639		2.11e7							0.000
FUNCTION4 PFK			0.000e0					306708		0.00e0							
FUNCTION5 PFK			3.395e4					230570		1.65e6							
FUNCTION1 HXCD...			4.934e2					625		6.74e3							0.000
FUNCTION1 HPCD...																	
FUNCTION2 HPCD...			1.574e3					915		2.35e4							0.000
FUNCTION3 OCDPE			8.696e2					844		1.47e4							0.000
FUNCTION4 NCDPE			3.767e2					925		5.85e3							0.000
FUNCTION5 DCDPE			0.000e0					629		0.00e0							

Method: T:\Autospec\Methods\Dioxin230303.mdb 03 Mar 2023 14:58:50
Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 10:57:27

ID: CS4CW, Name: 23030308, Date: 03-Mar-2023, Time: 14:59:53, Conditions: AUTOSPEC01, User: pk

TF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	25.79	2.145e5	2.910e5	0.702	0.74	0.77	2939.3	YES	NO	bb	bb	41.038
2	Total-tetrafurans	24.88	1.531e3	2.327e3	0.727	0.66	0.77	20.3	YES	NO	bb	bb	0.302
3	Total-tetrafurans	24.56	1.778e3	2.714e3	0.727	0.66	0.77	29.5	YES	NO	bb	bb	0.352

PP

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

PF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-pentafurans	31.01	1.644e3	9.764e2	0.654	1.68	1.55	5.6	YES	NO	db	bd	0.273
2	12378-PeCDF	29.94	1.256e6	8.416e5	0.679	1.49	1.55	4360.5	YES	NO	bb	bb	202.935
3	23478-PeCDF	31.29	1.346e6	8.943e5	0.786	1.51	1.55	4738.5	YES	NO	bb	bb	201.175

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDF	36.94	1.209e6	1.036e6	1.137	1.17	1.24	9441.6	YES	NO	bb	bd	200.361
2	234678-HxCDF	35.92	1.547e6	1.307e6	1.140	1.18	1.24	12125.4	YES	NO	bb	bd	210.207
3	Total-hexafurans	35.77	1.562e2	1.389e2	1.141	1.12	1.24	3.4	NO	NO	bb	bb	0.021
4	123678-HxCDF	35.05	1.740e6	1.369e6	1.091	1.27	1.24	13394.0	YES	NO	db	db	189.797
5	123478-HxCDF	34.91	1.546e6	1.218e6	1.166	1.27	1.24	12323.4	YES	NO	bd	bd	197.711
6	Total-hexafurans	34.76	1.255e3	1.100e3	1.141	1.14	1.24	11.9	YES	NO	bb	bb	0.169

HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDF	38.78	8.720e5	8.418e5	1.003	1.04	1.05	4339.3	YES	NO	bb	bb	204.650
2	1234789-HpCDF	41.02	7.221e5	7.262e5	0.953	0.99	1.05	3041.3	YES	NO	bb	bb	208.465

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Furans,TF,PP,PF,HF,HPF,OF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	25.79	2.145e5	2.910e5	0.702	0.74	0.77	2939.3	YES	NO	bb	bb	41.038
2	Total-tetrafurans	24.88	1.531e3	2.327e3	0.727	0.66	0.77	20.3	YES	NO	bb	bb	0.302
3	Total-tetrafurans	24.56	1.778e3	2.714e3	0.727	0.66	0.77	29.5	YES	NO	bb	bb	0.352
4	Total-pentafurans	31.01	1.644e3	9.764e2	0.654	1.68	1.55	5.6	YES	NO	db	bd	0.273
5	12378-PeCDF	29.94	1.256e6	8.416e5	0.679	1.49	1.55	4360.5	YES	NO	bb	bb	202.935
6	23478-PeCDF	31.29	1.346e6	8.943e5	0.786	1.51	1.55	4738.5	YES	NO	bb	bb	201.175
7	123789-HxCDF	36.94	1.209e6	1.036e6	1.137	1.17	1.24	9441.6	YES	NO	bb	bd	200.361
8	234678-HxCDF	35.92	1.547e6	1.307e6	1.140	1.18	1.24	12125.4	YES	NO	bb	bd	210.207
9	Total-hexafurans	35.77	1.562e2	1.389e2	1.141	1.12	1.24	3.4	NO	NO	bb	bb	0.021
10	123678-HxCDF	35.05	1.740e6	1.369e6	1.091	1.27	1.24	13394.0	YES	NO	db	db	189.797
11	123478-HxCDF	34.91	1.546e6	1.218e6	1.166	1.27	1.24	12323.4	YES	NO	bd	bd	197.711
12	Total-hexafurans	34.76	1.255e3	1.100e3	1.141	1.14	1.24	11.9	YES	NO	bb	bb	0.169
13	1234678-HpCDF	38.78	8.720e5	8.418e5	1.003	1.04	1.05	4339.3	YES	NO	bb	bb	204.650
14	1234789-HpCDF	41.02	7.221e5	7.262e5	0.953	0.99	1.05	3041.3	YES	NO	bb	bb	208.465
15	OCDF	45.26	1.195e6	1.333e6	0.778	0.90	0.89	7923.8	YES	NO	bb	bb	419.788

TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDD	26.44	2.573e5	3.218e5	1.149	0.80	0.77	2446.0	YES	NO	bb	bb	39.968
2	Total-tetradioxins	26.06	6.115e3	7.563e3	1.024	0.81	0.77	45.2	YES	NO	bb	bb	1.059

PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12378-PeCDD	31.55	1.294e6	8.446e5	1.022	1.53	1.55	12077.0	YES	NO	bb	bb	199.637
2	Total-pentadioxins	29.94	9.896e2	6.778e2	1.502	1.46	1.55	7.8	YES	NO	bb	bb	0.106

HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDD	36.53	1.168e6	9.477e5	0.907	1.23	1.24	9764.9	YES	NO	bb	bb	203.974
2	123678-HxCDD	36.15	1.363e6	1.125e6	1.001	1.21	1.24	10823.8	YES	NO	db	db	204.224
3	123478-HxCDD	36.03	1.162e6	9.482e5	0.996	1.23	1.24	10622.2	YES	NO	bd	bd	198.133

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HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-heptadioxins	40.57	2.148e2	2.026e2	1.088	1.06	1.05	2.3	NO	NO	bb	bb	0.048
2	1234678-HpCDD	40.28	8.284e5	8.038e5	1.039	1.03	1.05	3841.2	YES	NO	bb	bb	198.376

Dioxins,TD,PD,HD,HPD,OD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDD	26.44	2.573e5	3.218e5	1.149	0.80	0.77	2446.0	YES	NO	bb	bb	39.968
2	Total-tetradioxins	26.06	6.115e3	7.563e3	1.024	0.81	0.77	45.2	YES	NO	bb	bb	1.059
3	12378-PeCDD	31.55	1.294e6	8.446e5	1.022	1.53	1.55	12077.0	YES	NO	bb	bb	199.637
4	Total-pentadioxins	29.94	9.896e2	6.778e2	1.502	1.46	1.55	7.8	YES	NO	bb	bb	0.106
5	123789-HxCDD	36.53	1.168e6	9.477e5	0.907	1.23	1.24	9764.9	YES	NO	bb	bb	203.974
6	123678-HxCDD	36.15	1.363e6	1.125e6	1.001	1.21	1.24	10823.8	YES	NO	db	db	204.224
7	123478-HxCDD	36.03	1.162e6	9.482e5	0.996	1.23	1.24	10622.2	YES	NO	bd	bd	198.133
8	Total-heptadioxins	40.57	2.148e2	2.026e2	1.088	1.06	1.05	2.3	NO	NO	bb	bb	0.048
9	1234678-HpCDD	40.28	8.284e5	8.038e5	1.039	1.03	1.05	3841.2	YES	NO	bb	bb	198.376
10	OCDD	45.01	1.293e6	1.512e6	0.920	0.86	0.89	10744.0	YES	NO	bb	bb	394.016

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TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	25.79	2.145e5	2.910e5	0.702	0.74	0.77	2939.3	YES	NO	bb	bb	41.038
2	Total-tetrafurans	24.88	1.531e3	2.327e3	0.727	0.66	0.77	20.3	YES	NO	bb	bb	0.302
3	Total-tetrafurans	24.56	1.778e3	2.714e3	0.727	0.66	0.77	29.5	YES	NO	bb	bb	0.352
4	Total-pentafurans	31.01	1.644e3	9.764e2	0.654	1.68	1.55	5.6	YES	NO	db	bd	0.273
5	12378-PeCDF	29.94	1.256e6	8.416e5	0.679	1.49	1.55	4360.5	YES	NO	bb	bb	202.935
6	23478-PeCDF	31.29	1.346e6	8.943e5	0.786	1.51	1.55	4738.5	YES	NO	bb	bb	201.175
7	123789-HxCDF	36.94	1.209e6	1.036e6	1.137	1.17	1.24	9441.6	YES	NO	bb	bd	200.361
8	234678-HxCDF	35.92	1.547e6	1.307e6	1.140	1.18	1.24	12125.4	YES	NO	bb	bd	210.207
9	Total-hexafurans	35.77	1.562e2	1.389e2	1.141	1.12	1.24	3.4	NO	NO	bb	bb	0.021
10	123678-HxCDF	35.05	1.740e6	1.369e6	1.091	1.27	1.24	13394.0	YES	NO	db	db	189.797
11	123478-HxCDF	34.91	1.546e6	1.218e6	1.166	1.27	1.24	12323.4	YES	NO	bd	bd	197.711
12	Total-hexafurans	34.76	1.255e3	1.100e3	1.141	1.14	1.24	11.9	YES	NO	bb	bb	0.169
13	1234678-HpCDF	38.78	8.720e5	8.418e5	1.003	1.04	1.05	4339.3	YES	NO	bb	bb	204.650
14	1234789-HpCDF	41.02	7.221e5	7.262e5	0.953	0.99	1.05	3041.3	YES	NO	bb	bb	208.465
15	OCDF	45.26	1.195e6	1.333e6	0.778	0.90	0.89	7923.8	YES	NO	bb	bb	419.788
16	2378-TCDD	26.44	2.573e5	3.218e5	1.149	0.80	0.77	2446.0	YES	NO	bb	bb	39.968
17	Total-tetradioxins	26.06	6.115e3	7.563e3	1.024	0.81	0.77	45.2	YES	NO	bb	bb	1.059
18	12378-PeCDD	31.55	1.294e6	8.446e5	1.022	1.53	1.55	12077.0	YES	NO	bb	bb	199.637
19	Total-pentadioxins	29.94	9.896e2	6.778e2	1.502	1.46	1.55	7.8	YES	NO	bb	bb	0.106
20	123789-HxCDD	36.53	1.168e6	9.477e5	0.907	1.23	1.24	9764.9	YES	NO	bb	bb	203.974
21	123678-HxCDD	36.15	1.363e6	1.125e6	1.001	1.21	1.24	10823.8	YES	NO	db	db	204.224
22	123478-HxCDD	36.03	1.162e6	9.482e5	0.996	1.23	1.24	10622.2	YES	NO	bd	bd	198.133
23	Total-heptadioxins	40.57	2.148e2	2.026e2	1.088	1.06	1.05	2.3	NO	NO	bb	bb	0.048
24	1234678-HpCDD	40.28	8.284e5	8.038e5	1.039	1.03	1.05	3841.2	YES	NO	bb	bb	198.376
25	OCDD	45.01	1.293e6	1.512e6	0.920	0.86	0.89	10744.0	YES	NO	bb	bb	394.016

PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	26.75	1.219e6					0.4	NO		bb		
2	FUNCTION1 PFK	21.17	1.435e6					3.4	YES		bb		

ID: CS4CW, Name: 23030308, Date: 03-Mar-2023, Time: 14:59:53, Conditions: AUTOSPEC01, User: pk

PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	28.26	4.048e3					0.9	NO		bb		0.000
2	FUNCTION2 PFK	28.22	4.511e3					0.9	NO		bb		0.000
3	FUNCTION2 PFK	28.09	1.180e4					1.6	NO		bb		0.000
4	FUNCTION2 PFK	32.40	7.400e3					1.4	NO		bd		0.000
5	FUNCTION2 PFK	31.78	3.780e3					0.8	NO		db		0.000
6	FUNCTION2 PFK	31.75	1.880e3					0.6	NO		bd		0.000
7	FUNCTION2 PFK	31.70	9.648e3					1.7	NO		db		0.000
8	FUNCTION2 PFK	31.63	2.054e4					2.2	NO		bd		0.000
9	FUNCTION2 PFK	31.52	5.247e4					2.4	NO		db		0.000
10	FUNCTION2 PFK	31.37	1.454e4					1.4	NO		bd		0.000
11	FUNCTION2 PFK	31.10	7.031e3					1.1	NO		bb		0.000
12	FUNCTION2 PFK	30.32	1.036e4					1.3	NO		bb		0.000
13	FUNCTION2 PFK	30.01	2.058e3					0.8	NO		bb		0.000
14	FUNCTION2 PFK	29.82	6.711e3					1.2	NO		db		0.000
15	FUNCTION2 PFK	29.78	1.288e4					1.7	NO		bd		0.000
16	FUNCTION2 PFK	29.02	5.997e3					0.8	NO		bb		0.000
17	FUNCTION2 PFK	28.82	2.827e4					1.7	NO		bb		0.000
18	FUNCTION2 PFK	28.47	4.519e3					0.9	NO		bb		0.000
19	FUNCTION2 PFK	28.42	5.823e3					1.1	NO		bb		0.000
20	FUNCTION2 PFK	32.71	1.137e4					1.6	NO		bb		0.000
21	FUNCTION2 PFK	32.44	1.418e4					1.8	NO		db		0.000

PFK3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	36.64	7.406e6					25.3	YES		db		0.000
2	FUNCTION3 PFK	36.25	4.701e7					28.1	YES		bd		0.000

PFK4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

ID: CS4CW, Name: 23030308, Date: 03-Mar-2023, Time: 14:59:53, Conditions: AUTOSPEC01, User: pk

PFK5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	45.68	7.516e3					1.5	NO		bb		
2	FUNCTION5 PFK	45.50	5.255e3					1.2	NO		bb		
3	FUNCTION5 PFK	43.66	5.108e3					1.2	NO		bb		
4	FUNCTION5 PFK	43.06	3.867e3					1.1	NO		bb		
5	FUNCTION5 PFK	42.63	1.220e4					2.1	NO		bb		

ETHERS1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	21.64	8.072e1					1.8	NO		bb		0.000
2	FUNCTION1 HXCD...	21.44	1.165e2					2.1	NO		db		0.000
3	FUNCTION1 HXCD...	21.34	7.544e1					2.3	NO		bd		0.000
4	FUNCTION1 HXCD...	26.42	1.399e2					2.7	NO		bb		0.000
5	FUNCTION1 HXCD...	21.99	8.086e1					2.0	NO		bb		0.000

ETHERS2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	31.18	1.574e3					25.7	YES		bb		0.000

ETHERS4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	36.15	3.227e2					5.7	YES		db		0.000
2	FUNCTION3 OCDPE	36.03	2.331e2					4.4	YES		bd		0.000
3	FUNCTION3 OCDPE	35.36	1.234e2					4.0	YES		bb		0.000
4	FUNCTION3 OCDPE	35.06	1.904e2					3.3	YES		bb		0.000

ETHERS5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	39.00	2.677e2					3.2	YES		bb		0.000
2	FUNCTION4 NCDPE	38.18	1.090e2					3.1	YES		bb		0.000

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ETHERS6

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

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ID: CS4CW, Name: 23030308, Date: 03-Mar-2023, Time: 14:59:53, Conditions: AUTOSPEC01, User: pk

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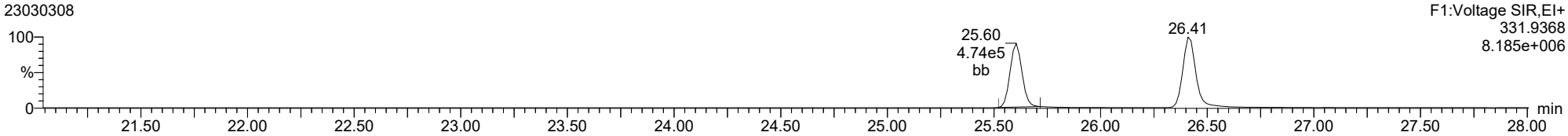

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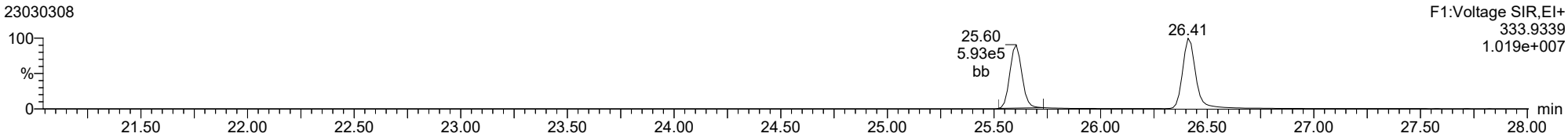
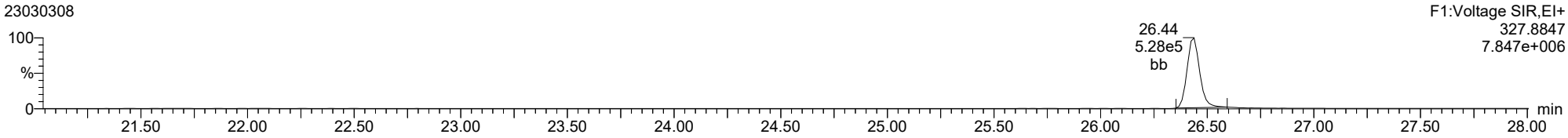


37CL-2378-TCDD



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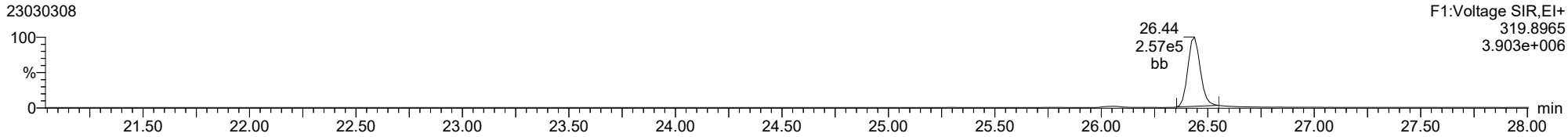

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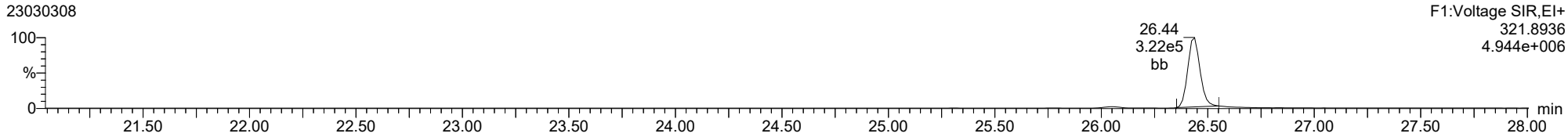

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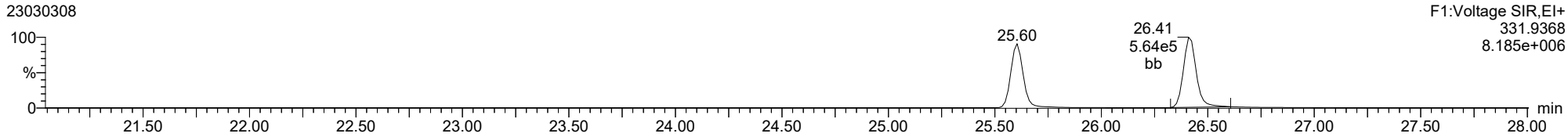

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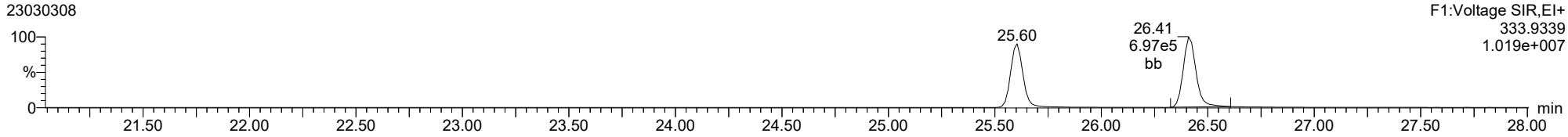
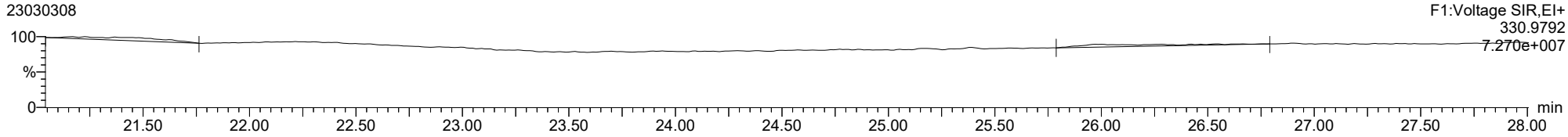


FUNCTION1 PFK



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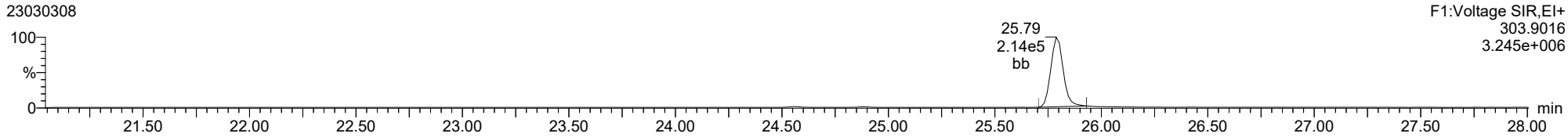

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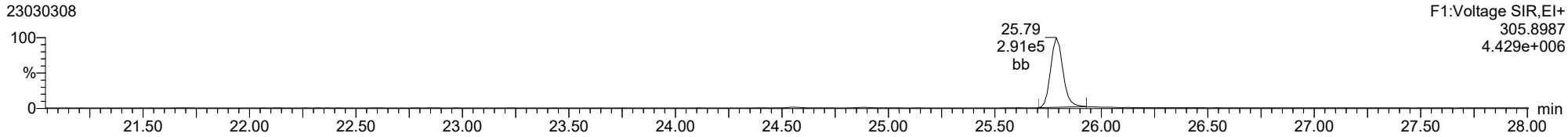

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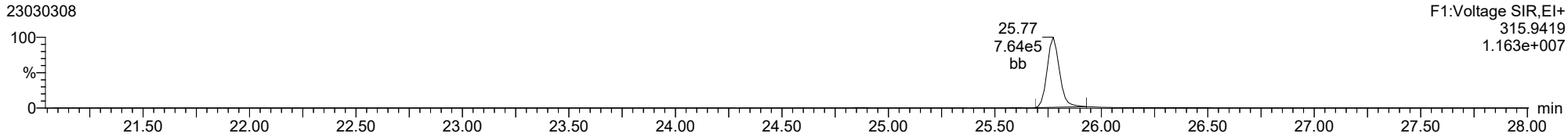

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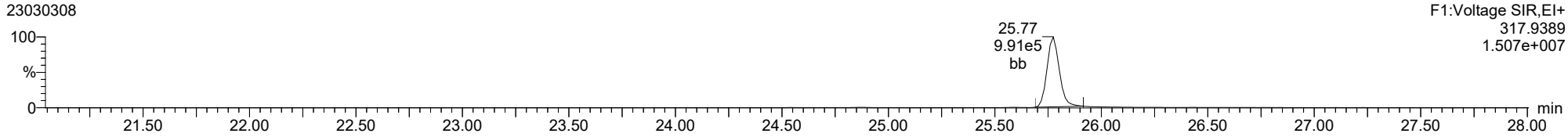

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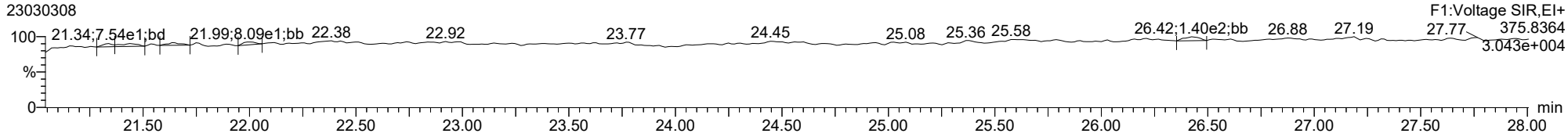

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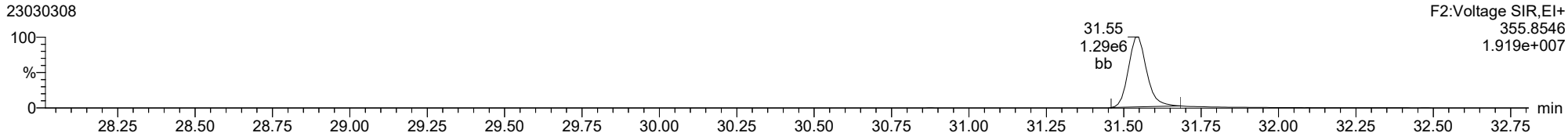

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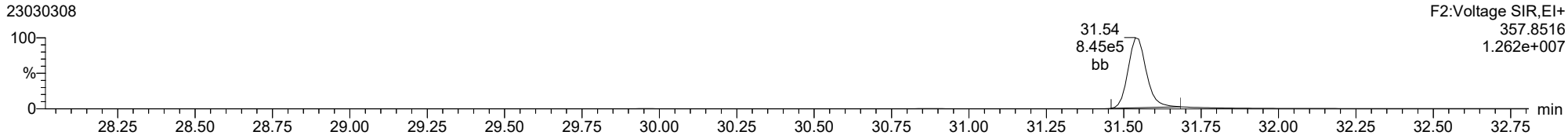

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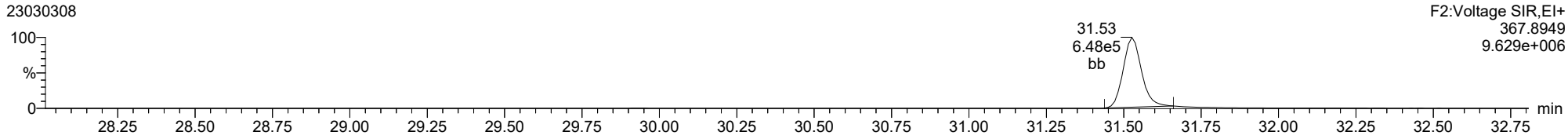

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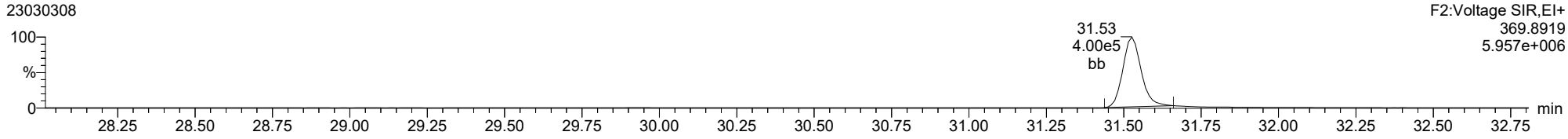
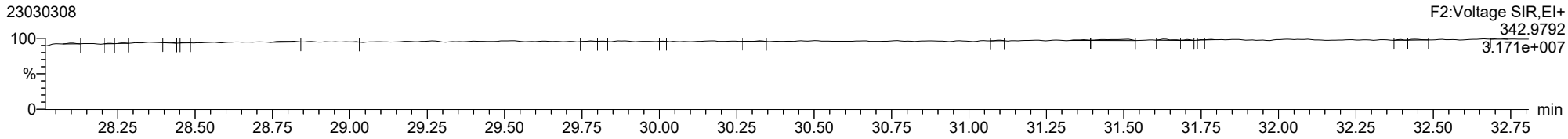


FUNCTION2 PFK



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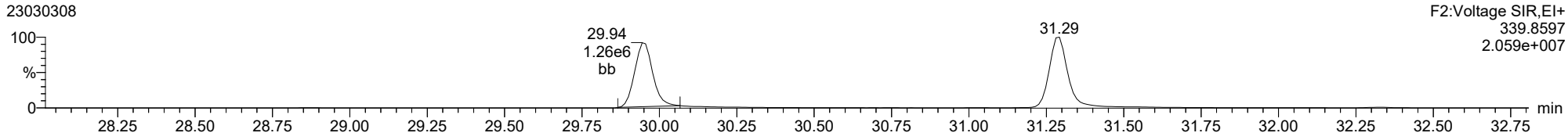

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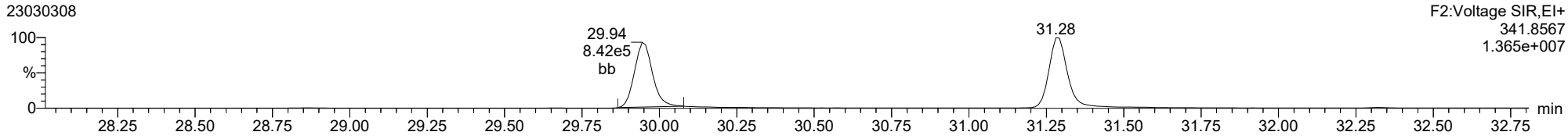

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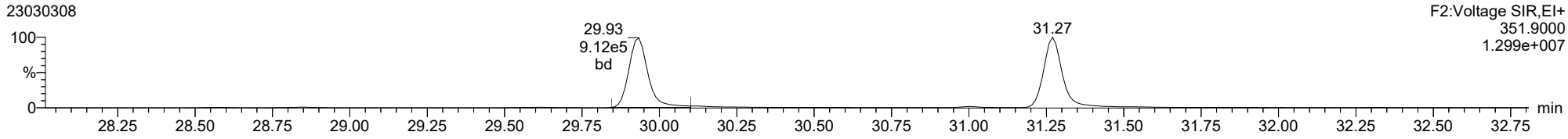

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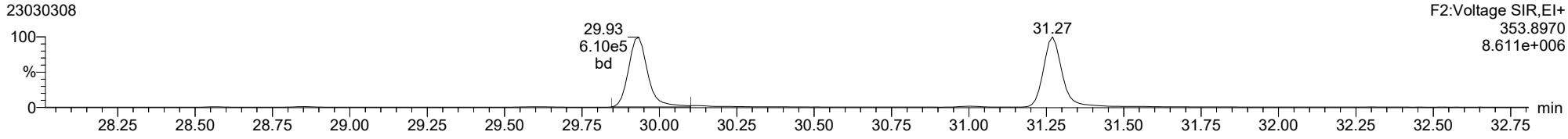
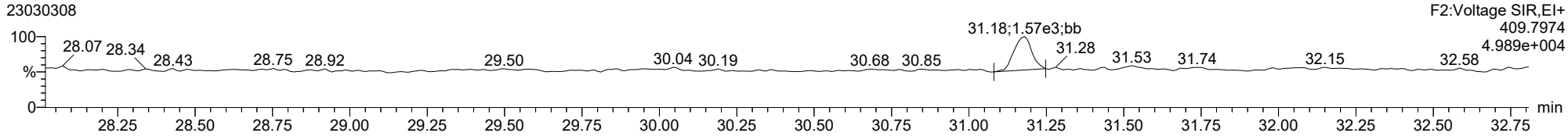


FUNCTION2 HPCDPE



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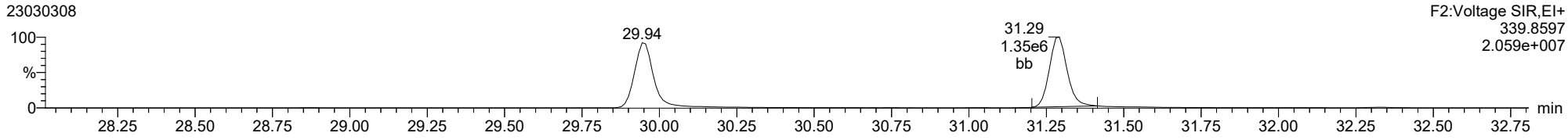
23478-PeCDF



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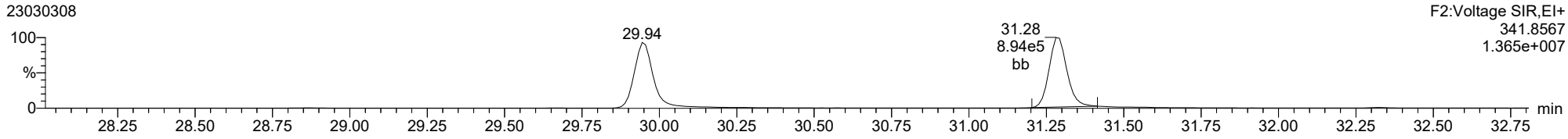

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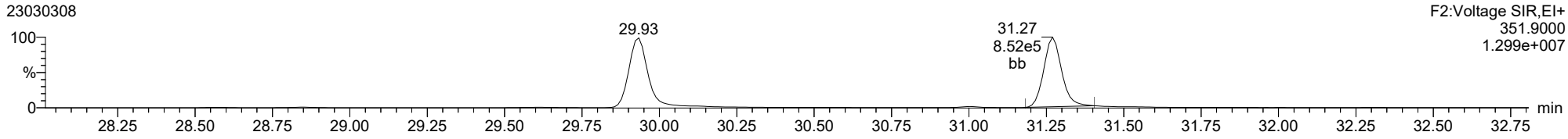

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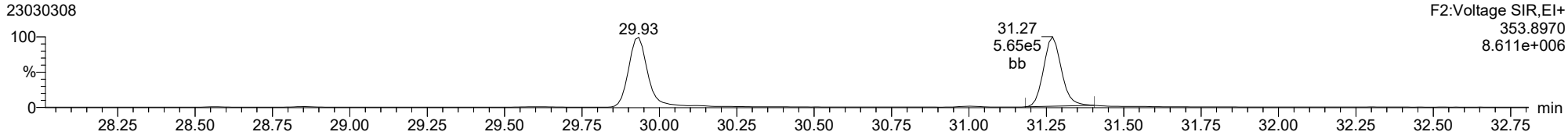
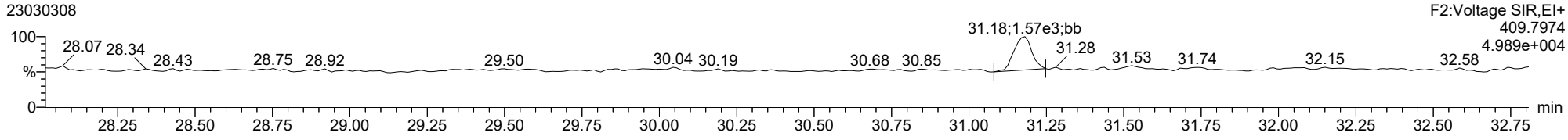


FUNCTION2 HPCDPE



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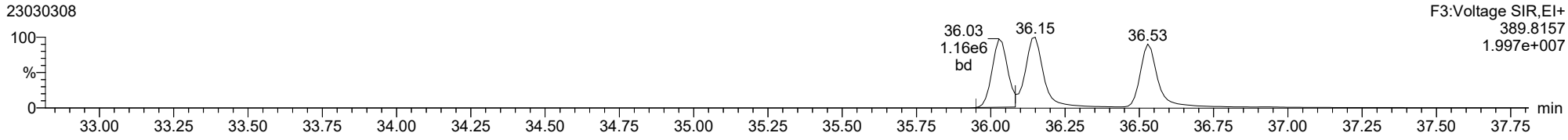

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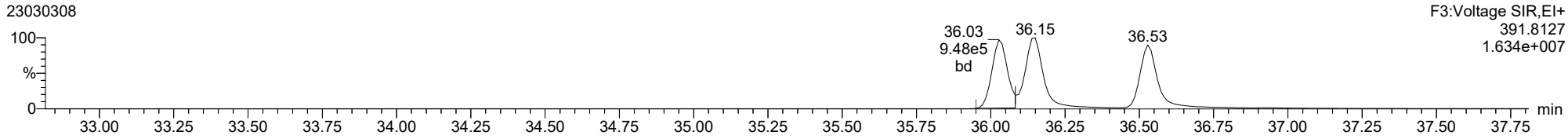

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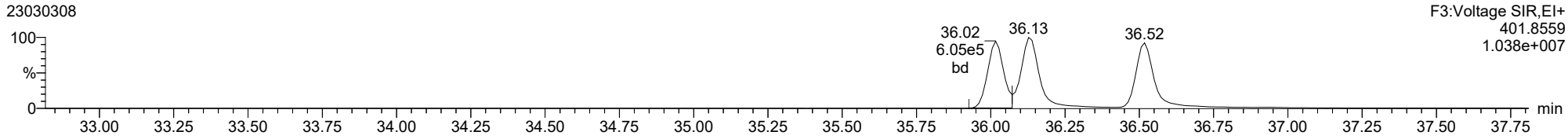

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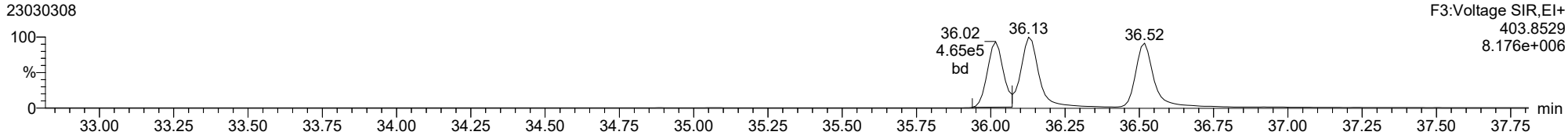

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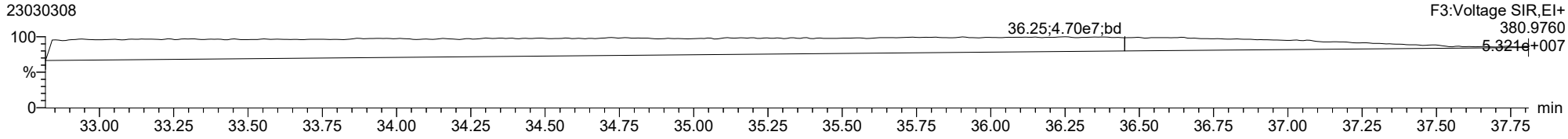

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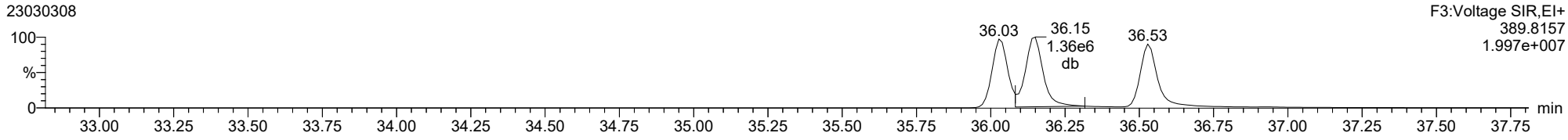

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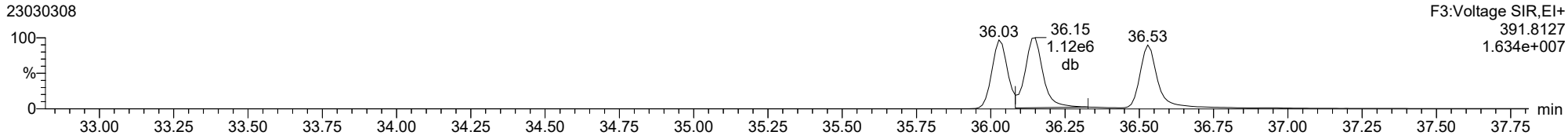

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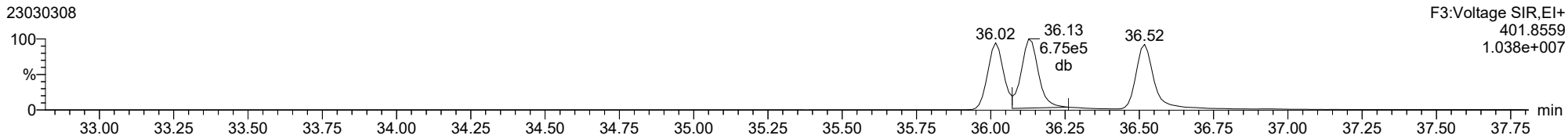

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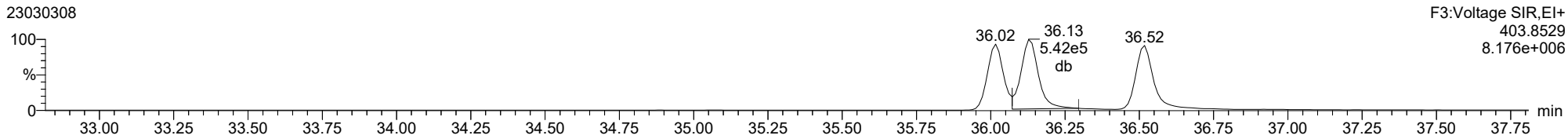

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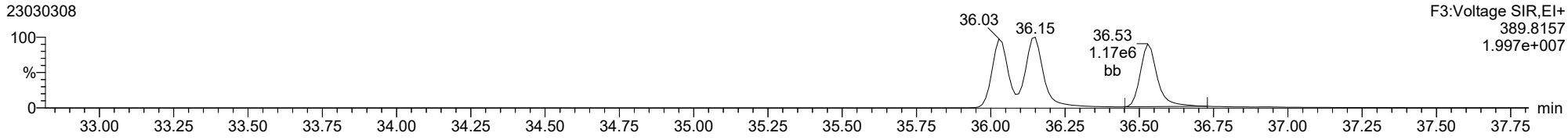

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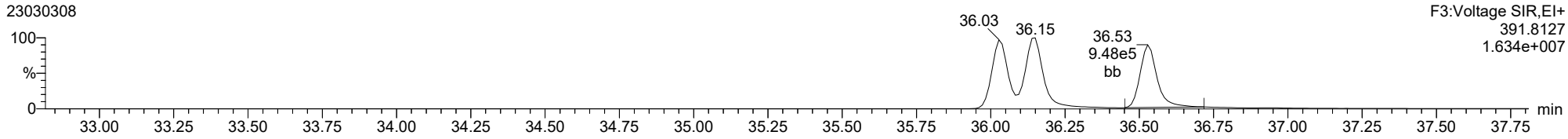

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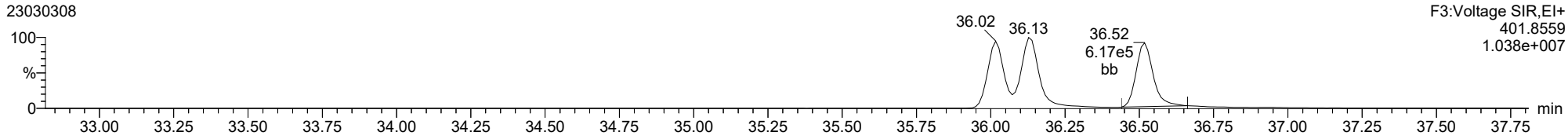

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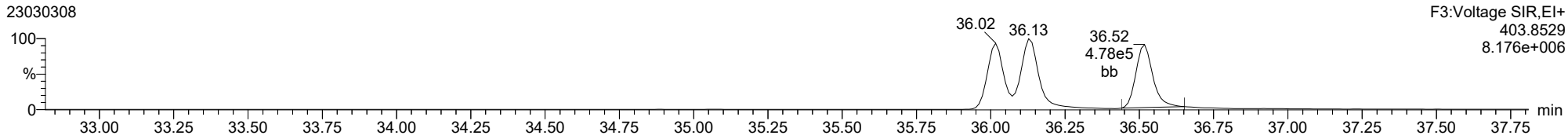

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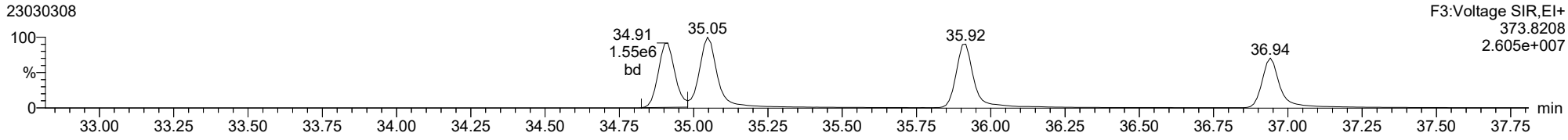

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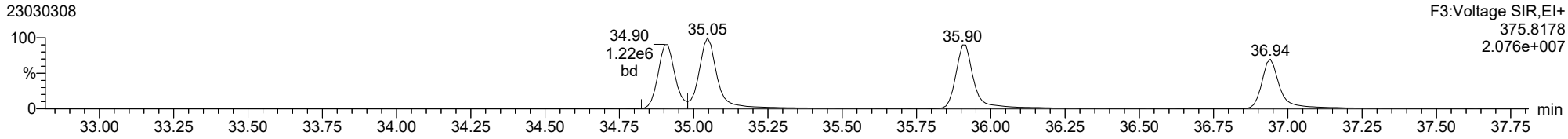

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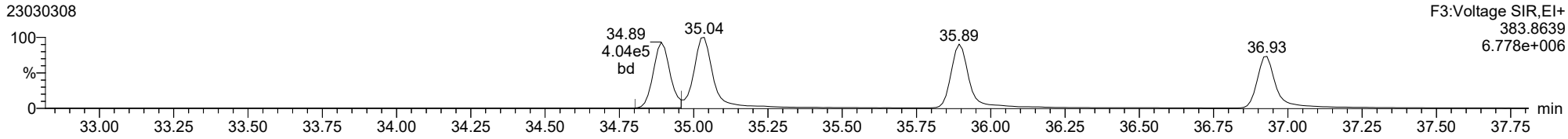

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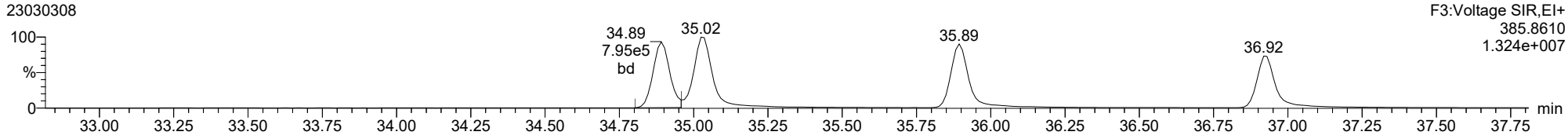
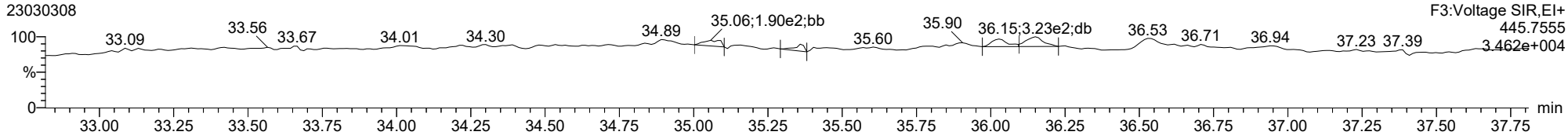


FUNCTION3 OCDPE



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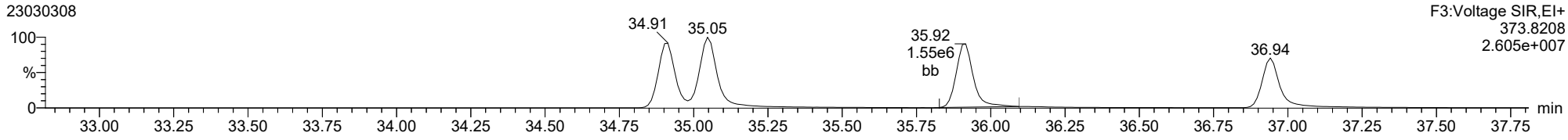
234678-HxCDF



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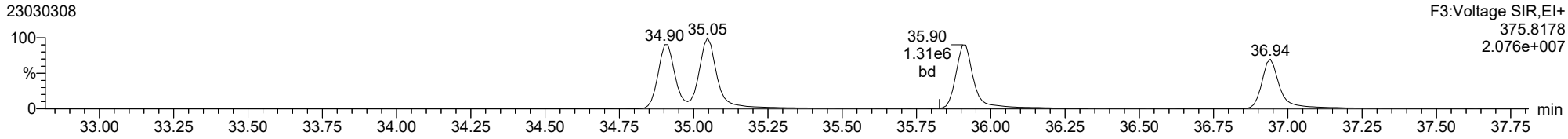

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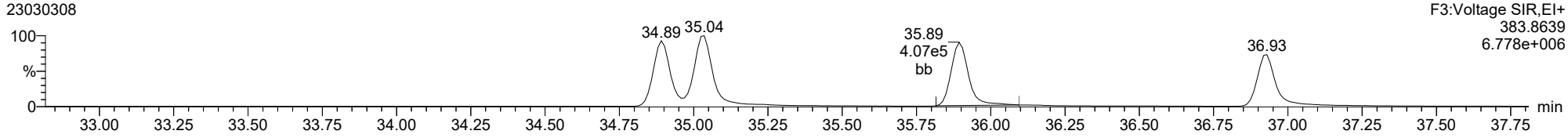

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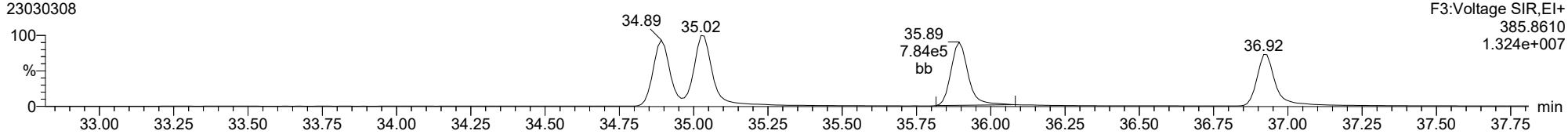
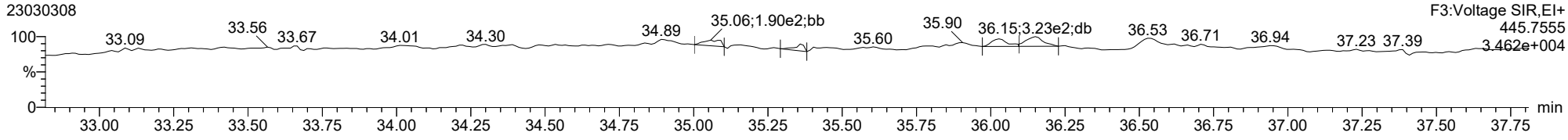


FUNCTION3 OCDPE



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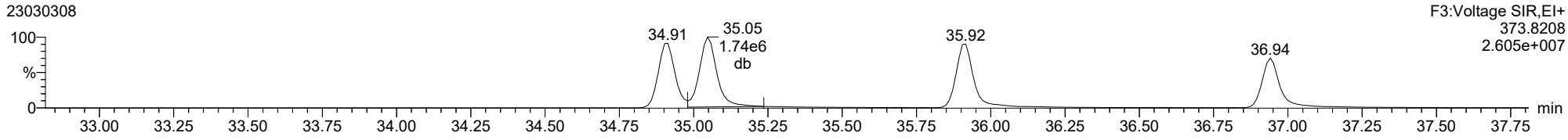

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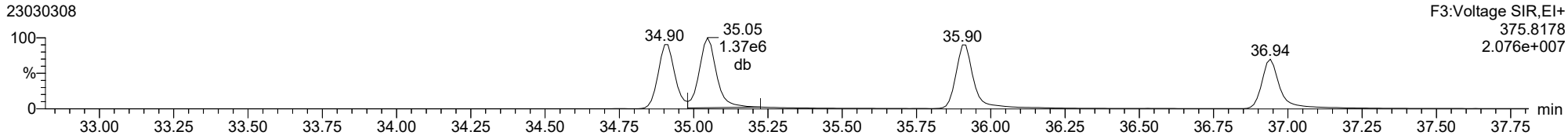

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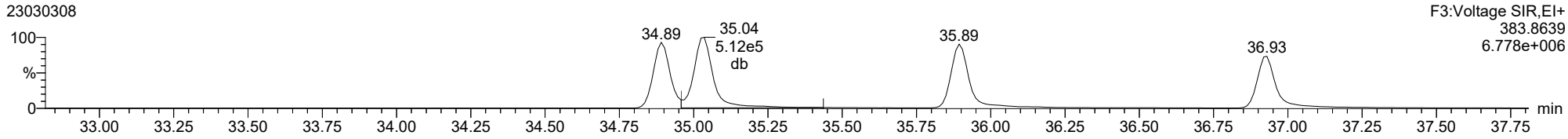

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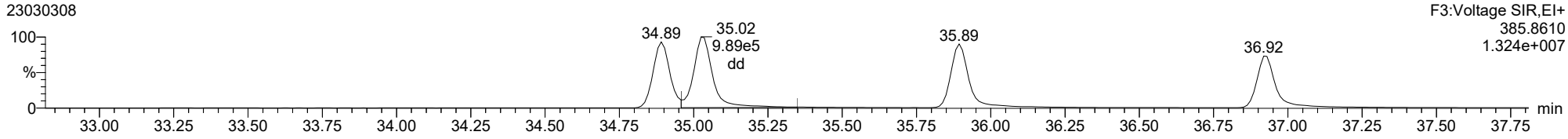

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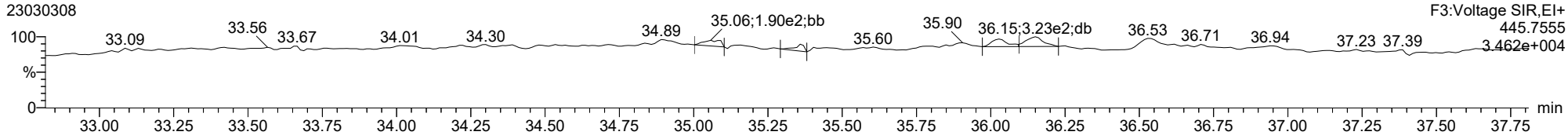

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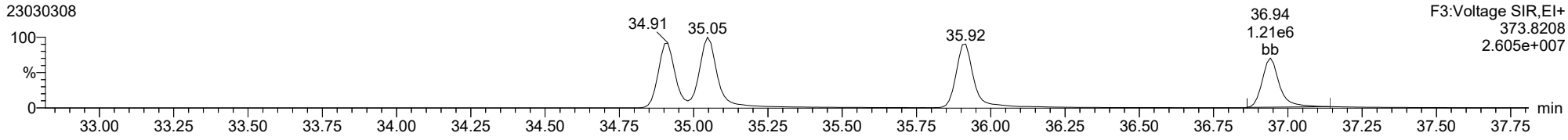

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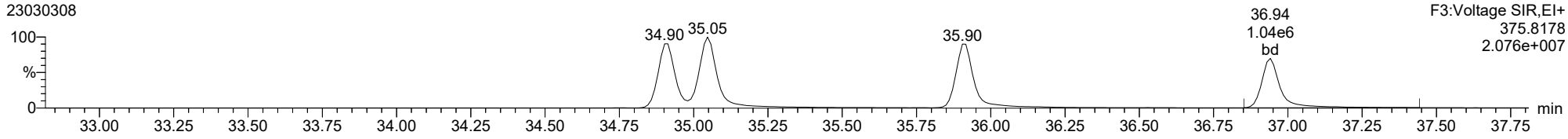

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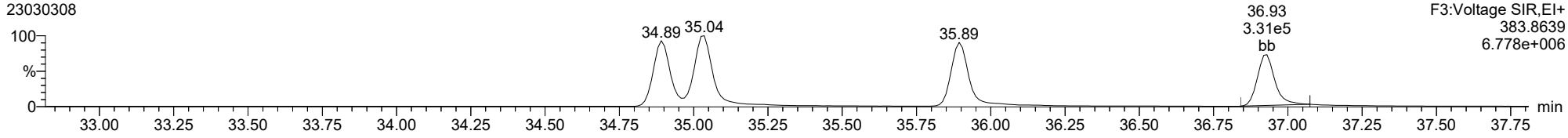

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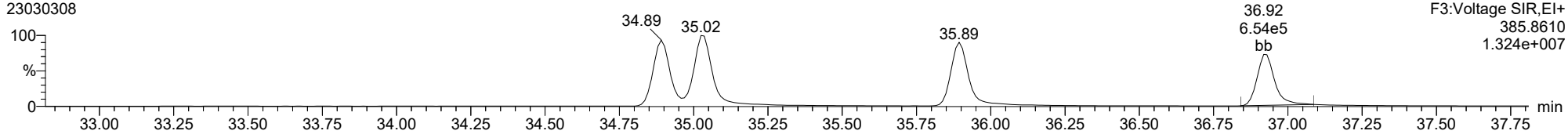
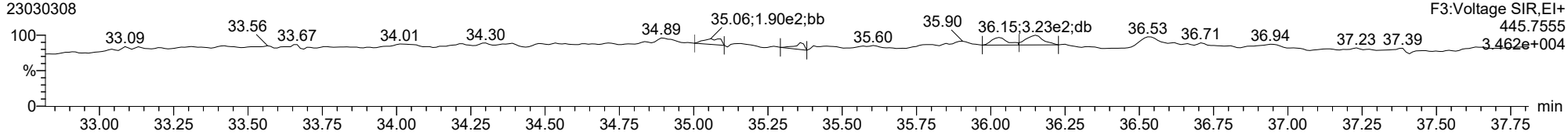


FUNCTION3 OCDPE



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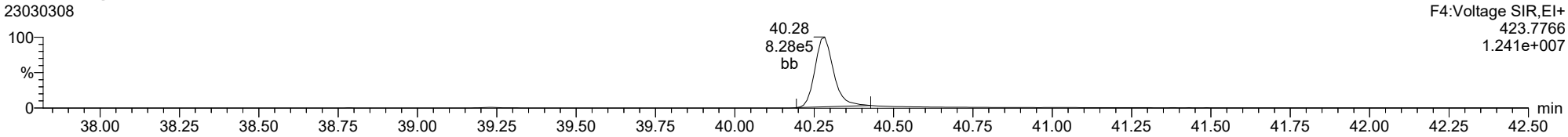
1234678-HpCDD



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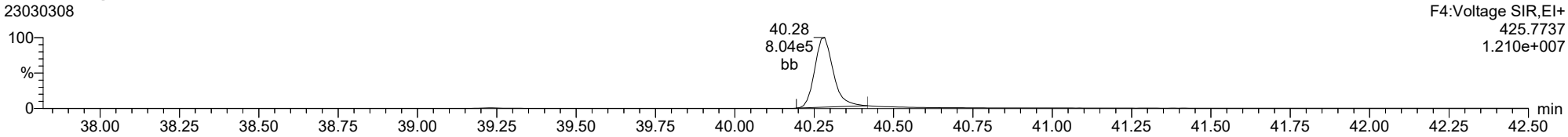

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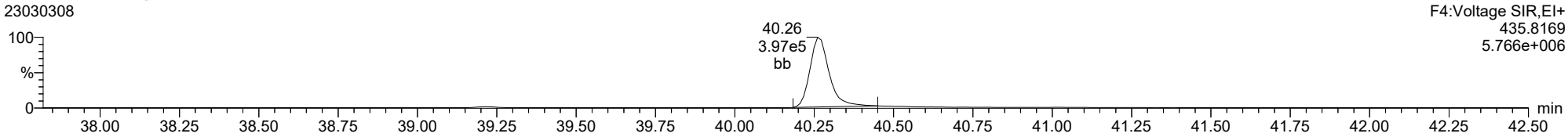

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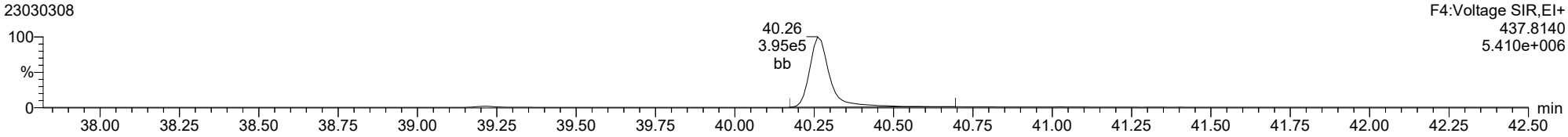
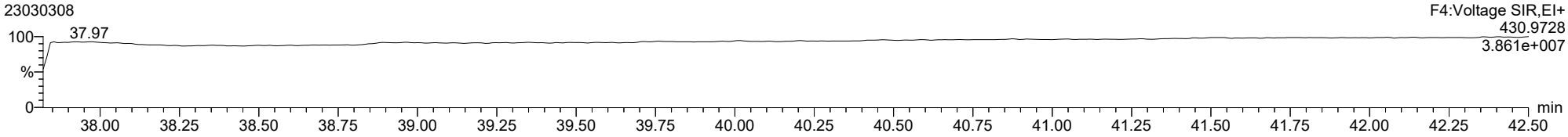


FUNCTION4 PFK



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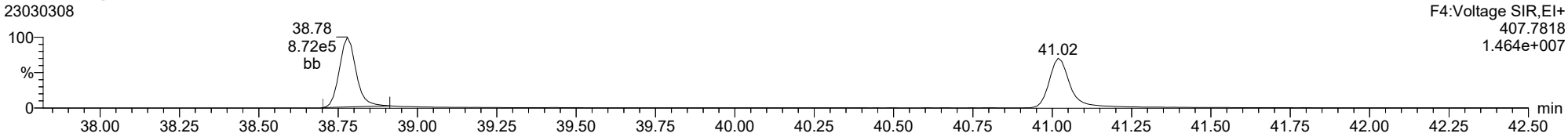

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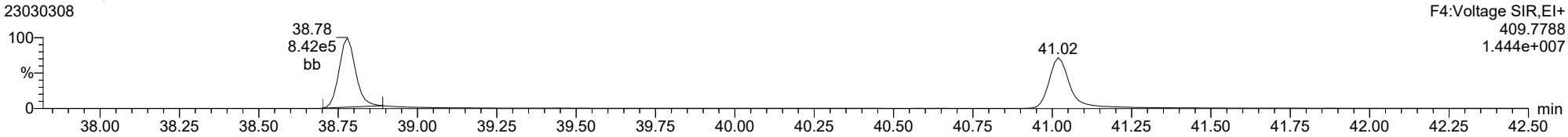

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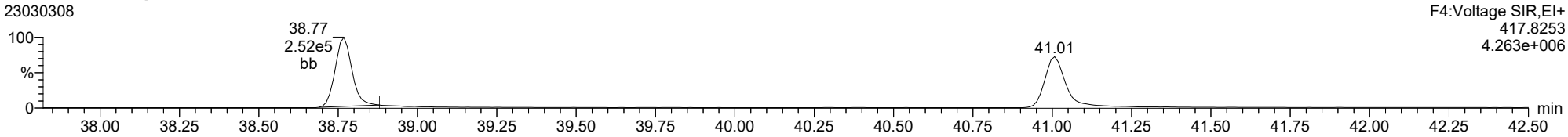

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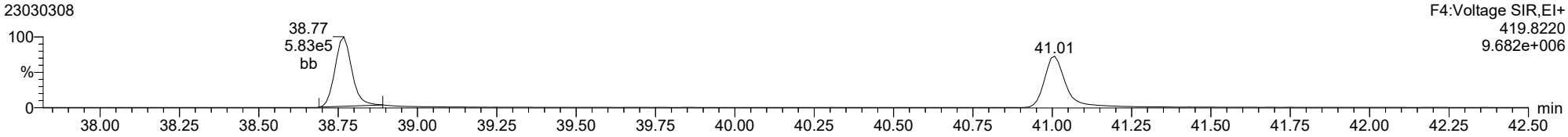

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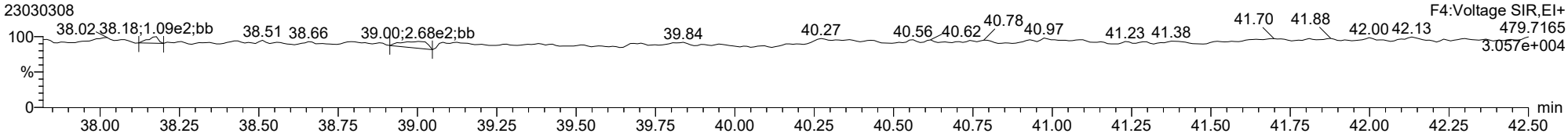

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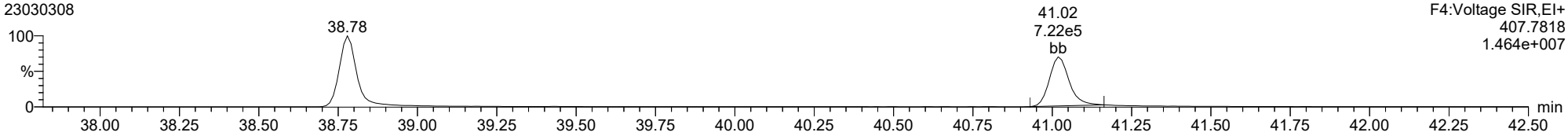

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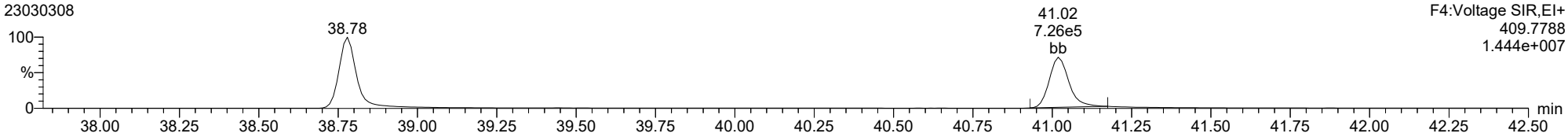

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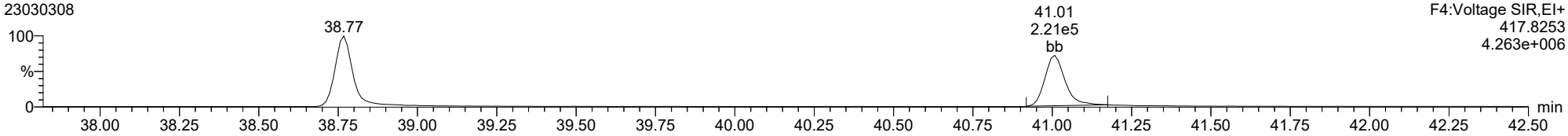

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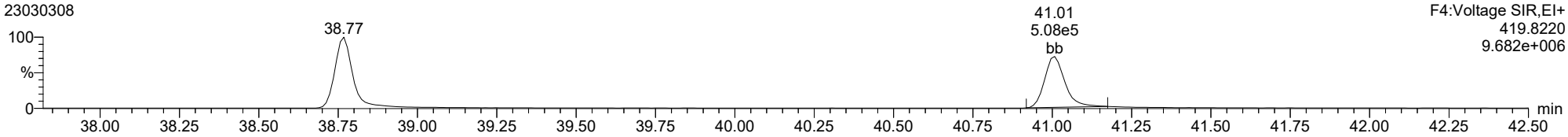
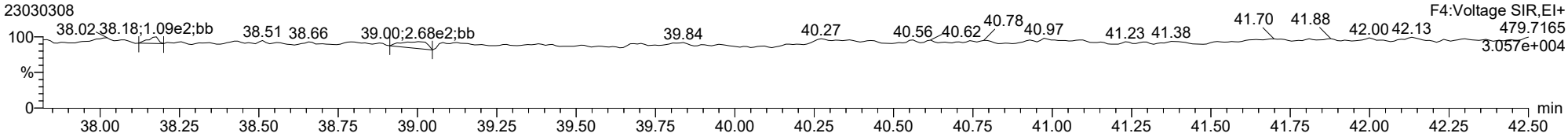


FUNCTION4 NCDPE



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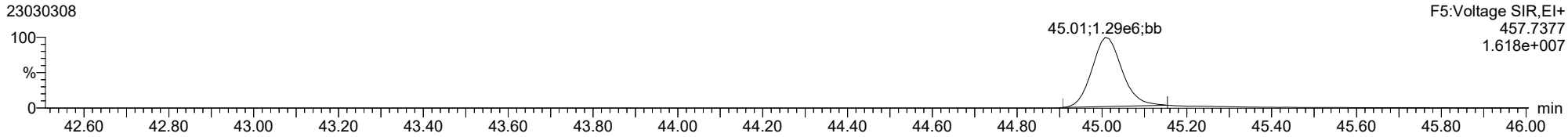
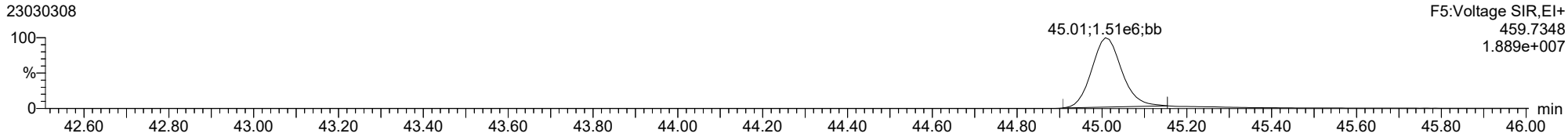
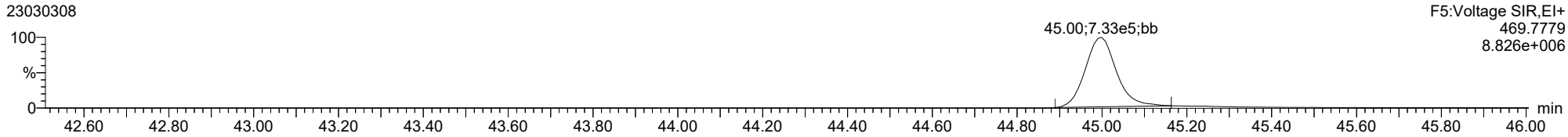
OCDD



OCDD



13C-OCDD



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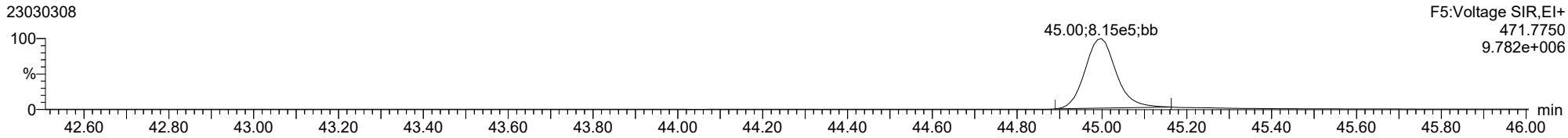
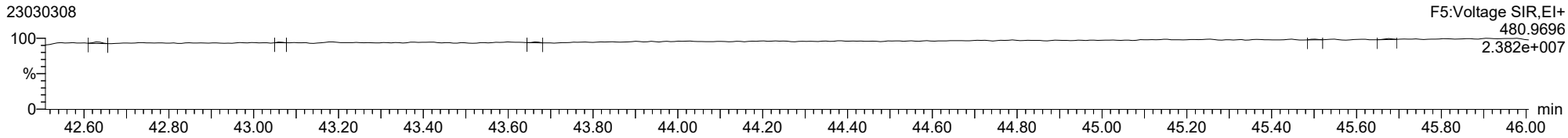


FUNCTION5 PFK



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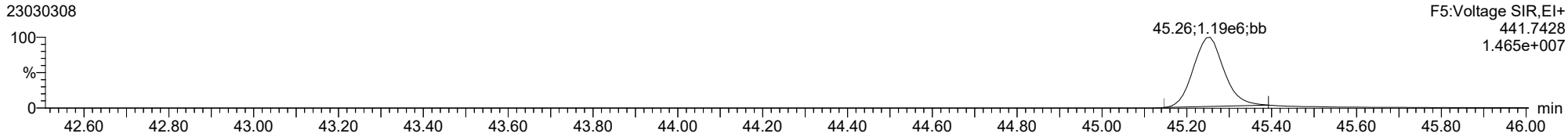
OCDF



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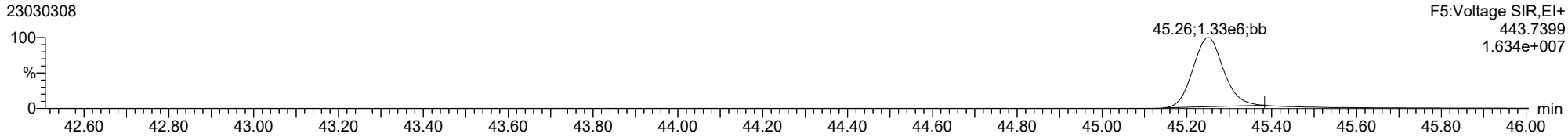
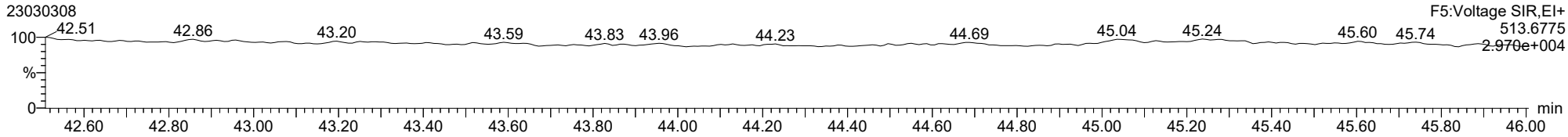


FUNCTION5 DCDPE



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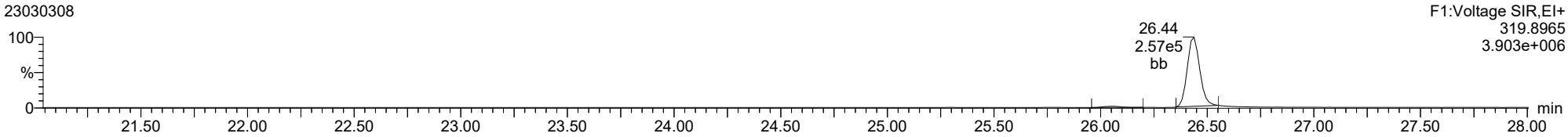
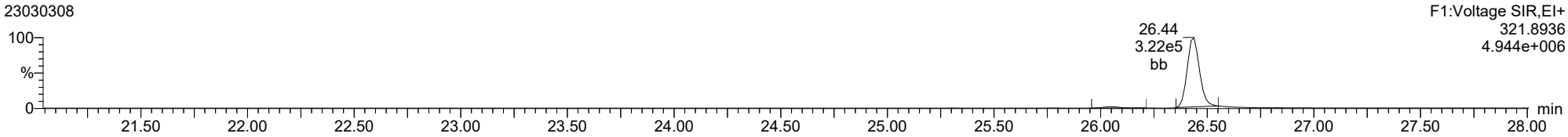
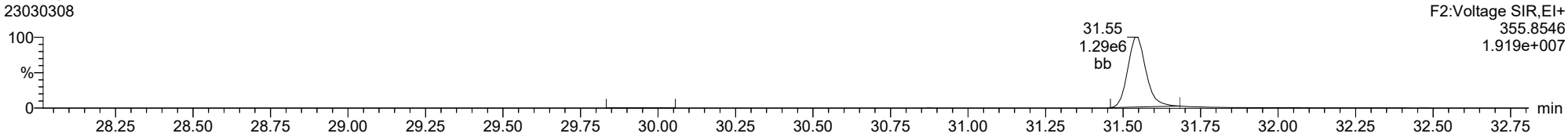
Total-tetradioxins



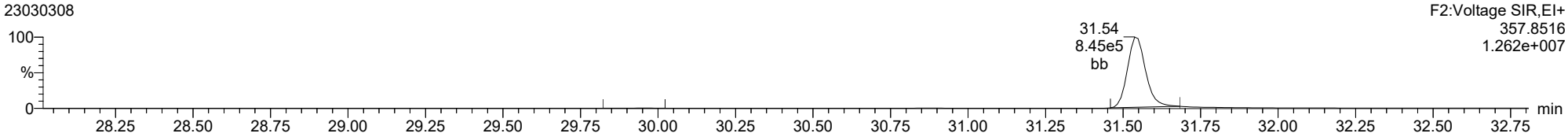
Total-tetradioxins



Total-pentadioxins



Total-pentadioxins



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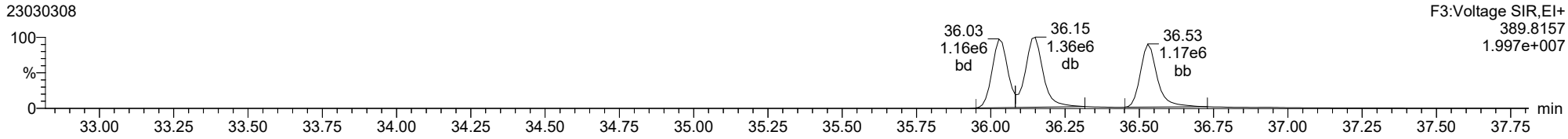
Total-hexadioxins



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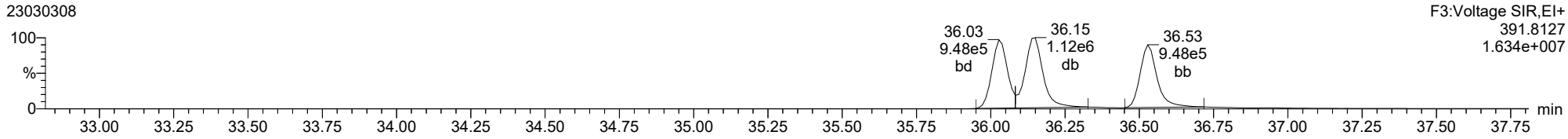

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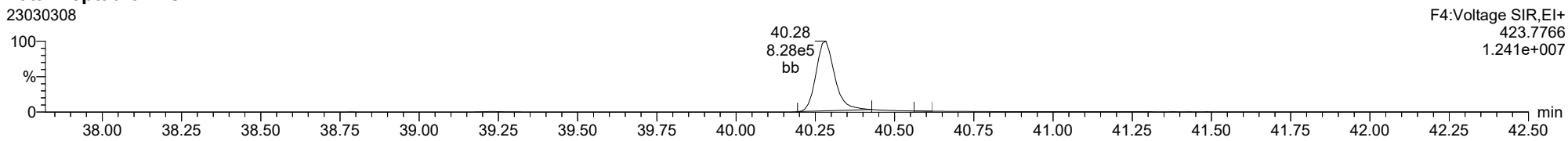
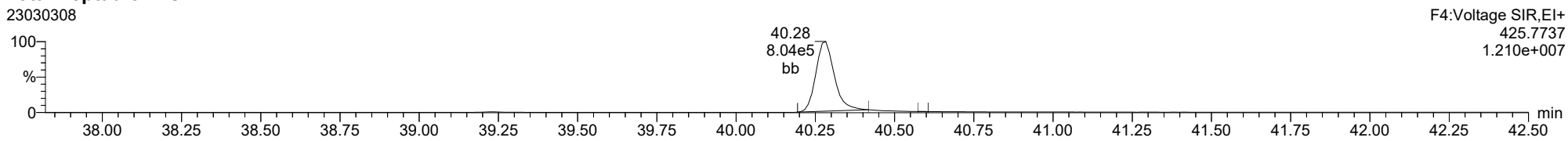


Total-heptadioxins



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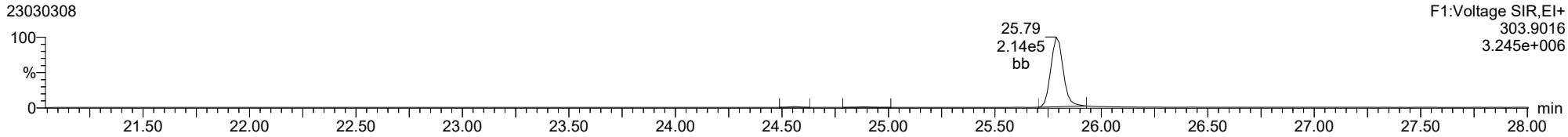
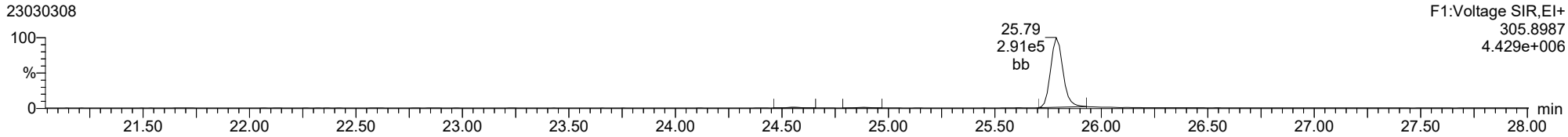
Total-tetrafurans



Total-tetrafurans



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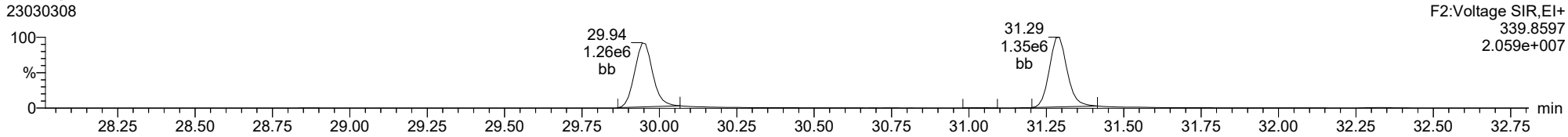

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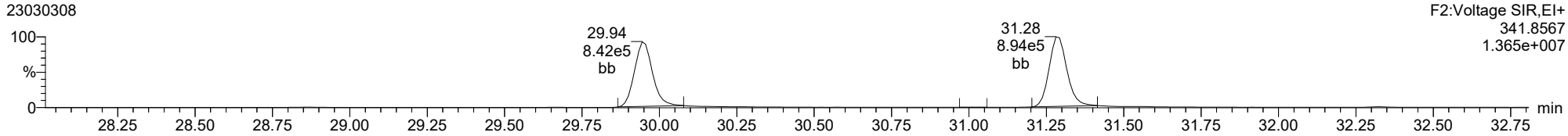

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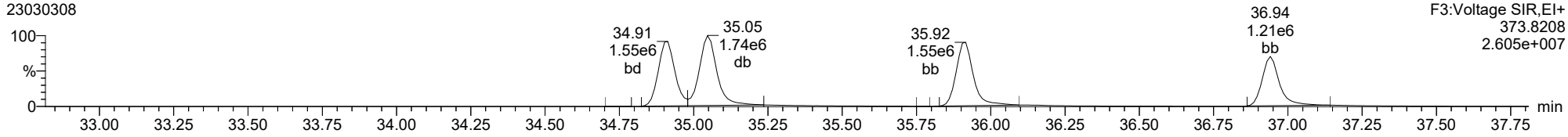
Total-hexafurans



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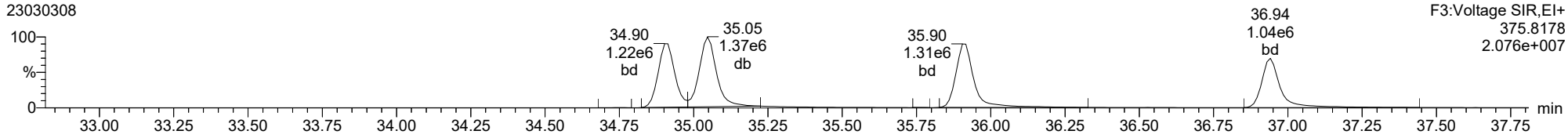

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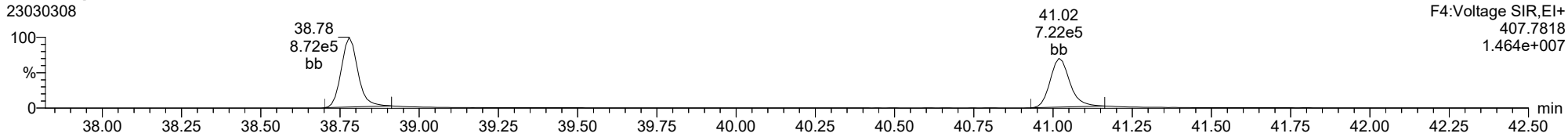

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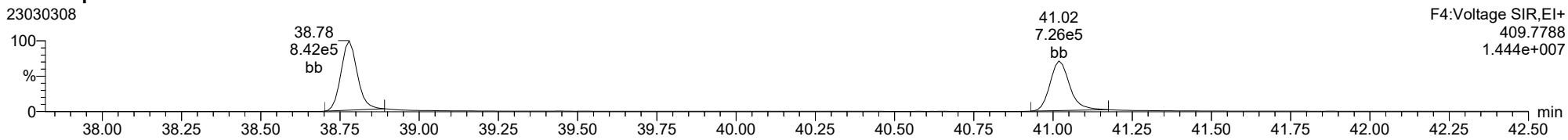

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Method: T:\Autospec\Methods\Dioxin230303.mdb 03 Mar 2023 14:58:50
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ID: CS5CW, Name: 23030309, Date: 03-Mar-2023, Time: 15:47:43, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	25.774	1.000	1.334e6	1.787e6	0.702	0.746	0.770	1816	2705	2.07e7	2.78e7	11389.3	10270.6	NO	bb	bb	200.466
12378-PeCDF	29.934	1.000	7.598e6	4.979e6	0.679	1.526	1.550	4787	5694	1.20e8	7.84e7	24983.0	13764.4	NO	bb	bb	1049.785
23478-PeCDF	31.271	1.000	8.034e6	5.310e6	0.786	1.513	1.550	4787	5694	1.23e8	8.18e7	25734.3	14361.4	NO	bb	bb	1006.165
123478-HxCDF	34.903	1.001	7.954e6	6.371e6	1.166	1.248	1.240	1657	3079	1.28e8	1.02e8	76946.6	33145.2	NO	bd	bd	988.542
234678-HxCDF	35.894	1.000	8.440e6	6.648e6	1.140	1.270	1.240	1657	3079	1.32e8	1.04e8	79492.3	33730.7	NO	bd	bd	997.904
123678-HxCDF	35.036	1.000	8.729e6	6.976e6	1.091	1.251	1.240	1657	3079	1.37e8	1.09e8	82564.4	35544.8	NO	db	db	1005.907
123789-HxCDF	36.930	1.000	7.107e6	5.643e6	1.137	1.259	1.240	1657	3079	1.15e8	9.05e7	69330.3	29396.1	NO	bb	bb	962.631
1234678-HpCDF	38.769	1.000	5.729e6	5.700e6	1.003	1.005	1.050	5984	6276	9.87e7	9.77e7	16498.3	15567.0	NO	bb	bb	1001.511
1234789-HpCDF	41.008	1.000	4.891e6	4.848e6	0.953	1.009	1.050	5984	6276	7.31e7	7.29e7	12213.8	11617.0	NO	bb	bb	1050.453
OCDF	45.246	1.006	8.007e6	9.001e6	0.778	0.890	0.890	617	1698	1.01e8	1.14e8	163878.0	67066.1	NO	bb	bb	2152.541
2378-TCDD	26.424	1.001	1.623e6	2.053e6	1.149	0.791	0.770	1583	1421	2.49e7	3.15e7	15719.4	22173.2	NO	bb	bb	201.416
12378-PeCDD	31.527	1.000	7.500e6	4.933e6	1.022	1.520	1.550	3207	3258	1.15e8	7.59e7	35906.6	23308.0	NO	bb	bb	987.154
123478-HxCDD	36.017	1.000	6.446e6	5.113e6	0.996	1.261	1.240	1269	1319	1.05e8	8.63e7	82869.7	65420.3	NO	bd	bd	1008.795
123678-HxCDD	36.139	1.001	6.944e6	5.798e6	1.001	1.198	1.240	1269	1319	1.11e8	8.98e7	87214.8	68064.1	NO	db	db	1011.135
123789-HxCDD	36.518	1.011	6.387e6	5.242e6	0.907	1.218	1.240	1269	1319	1.04e8	8.52e7	81996.1	64539.0	NO	bb	bb	1063.935
1234678-HpCDD	40.273	1.000	5.468e6	5.342e6	1.039	1.023	1.050	4639	3285	8.81e7	8.56e7	19002.3	26055.7	NO	bb	bb	1010.673
OCDD	45.008	1.000	8.523e6	9.997e6	0.920	0.853	0.890	1224	2738	1.09e8	1.28e8	89206.2	46574.8	NO	bb	bb	1981.710
13C-2378-TCDF	25.760	1.007	9.657e5	1.254e6	1.620	0.770	0.770	2759	1757	1.47e7	1.88e7	5325.4	10693.5	NO	bb	bb	104.465
13C-12378-PeCDF	29.923	1.169	1.058e6	7.059e5	1.240	1.499	1.550	2137	2181	1.59e7	1.06e7	7426.1	4845.6	NO	bb	bb	108.437
13C-23478-PeCDF	31.259	1.222	1.010e6	6.768e5	1.118	1.492	1.550	2137	2181	1.54e7	1.03e7	7192.1	4709.7	NO	bb	bb	115.091
13C-123478-HxCDF	34.880	0.955	4.197e5	8.230e5	1.168	0.510	0.510	2074	3087	6.86e6	1.33e7	3308.7	4323.9	NO	bd	bd	88.344
13C-123678-HxCDF	35.025	0.959	4.843e5	9.471e5	1.386	0.511	0.510	2074	3087	7.37e6	1.42e7	3551.0	4614.4	NO	db	db	85.742
13C-234678-HxCDF	35.883	0.983	4.483e5	8.783e5	1.129	0.510	0.510	2074	3087	6.95e6	1.37e7	3352.7	4438.0	NO	bd	bd	97.566
13C-123789-HxCDF	36.919	1.011	3.958e5	7.690e5	0.932	0.515	0.510	2074	3087	6.35e6	1.23e7	3061.9	3979.7	NO	bb	bb	103.822
13C-1234678-HpCDF	38.757	1.062	3.445e5	7.933e5	0.895	0.434	0.440	2404	3556	5.77e6	1.33e7	2401.1	3732.0	NO	bb	bb	105.552
13C-1234789-HpCDF	40.997	1.123	2.963e5	6.765e5	0.770	0.438	0.440	2404	3556	4.35e6	9.96e6	1811.4	2800.3	NO	bb	bb	104.955
13C-1234-TCDD	25.591	0.000	5.845e5	7.267e5	1.000	0.804	0.770	2994	1335	8.98e6	1.11e7	2999.9	8316.3	NO	bb	bb	100.000
13C-2378-TCDD	26.396	1.031	7.030e5	8.860e5	1.152	0.794	0.770	2994	1335	1.05e7	1.32e7	3492.1	9847.6	NO	bb	bb	105.160
13C-12378-PeCDD	31.515	1.232	7.626e5	4.699e5	0.829	1.623	1.550	1207	1205	1.17e7	7.16e6	9657.3	5939.7	NO	bb	bb	113.413
13C-123478-HxCDD	36.006	0.986	6.492e5	5.017e5	0.995	1.294	1.240	1422	1281	1.08e7	8.26e6	7562.7	6444.6	NO	bd	bd	96.063
13C-123678-HxCDD	36.117	0.989	7.072e5	5.517e5	1.157	1.282	1.240	1422	1281	1.11e7	8.74e6	7828.3	6824.3	NO	db	db	90.391
13C-1234678-HpCDD	40.262	1.103	5.341e5	4.953e5	0.840	1.078	1.050	2026	1583	8.10e6	7.45e6	3998.5	4702.7	NO	bb	bb	101.765
13C-OCDD	44.990	1.232	9.650e5	1.067e6	0.767	0.905	0.890	1467	1005	1.21e7	1.35e7	8264.7	13401.8	NO	bb	bb	219.862
13C-123789-HxCDD	36.507	0.000	6.722e5	5.319e5	1.000	1.264	1.240	1422	1281	1.10e7	8.62e6	7719.2	6727.3	NO	bb	bb	100.000
37CL-2378-TCDD	26.424	1.033	3.368e6		1.288			2667		5.07e7		19022.1			bb		199.444

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ID: CS5CW, Name: 23030309, Date: 03-Mar-2023, Time: 15:47:43, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF					0.802		0.770	1816	2705								
1289-TCDF					0.678		0.770	1816	2705								
13468-PECDF					1.246		1.550	665	1133								
12389-PECDF					0.496		1.550	4787	5694								
123468-HXCDF					1.169		1.240	1657	3079								
1368-TCDD					1.015		0.770	1583	1421								
1289-TCDD					0.909		0.770	1583	1421								
12479-PECDD					2.301		1.550	3207	3258								
12389-PECDD					1.184		1.550	3207	3258								
124679-HXCDD					1.115		1.240	1269	1319								
1234679-HPCDD					1.137		1.050	4639	3285								
Total-tetrafurans			1.355e6		0.727			1816		2.10e7							203.619
Total-penta1			0.000e0					665		0.00e0							
Total-pentafurans			1.567e7		0.654			4787		2.43e8							2061.969
Total-hexafurans			3.237e7		1.141			1657		5.13e8							3971.633
Total-heptafurans			1.063e7		0.978			5984		1.72e8							2053.620
Total-Furans			6.803e7		0.922			1816		1.05e9							10443.382
Total-tetradioxins			1.660e6		1.024			1583		2.53e7							206.551
Total-pentadioxins			7.518e6		1.502			3207		1.15e8							988.757
Total-hexadioxins			1.981e7		1.005			1269		3.20e8							3089.249
Total-heptadioxins			5.468e6		1.088			4639		8.81e7							1010.701
Total-Dioxins			4.298e7		1.130			1583		6.58e8							7276.969
Total-TEQ			1.110e8					1583		1.71e9							17720.350
FUNCTION1 PFK			8.364e4					590794		3.29e6							
FUNCTION2 PFK			1.452e7					287139		1.24e7							0.000
FUNCTION3 PFK			2.904e5					447834		7.86e6							0.000
FUNCTION4 PFK			1.983e5					258971		5.49e6							
FUNCTION5 PFK			1.360e5					213310		3.56e6							
FUNCTION1 HXCD...			9.848e2					660		1.37e4							0.000
FUNCTION1 HPCD...																	
FUNCTION2 HPCD...			9.974e3					875		1.52e5							0.000
FUNCTION3 OCDPE			5.118e3					487		5.72e4							0.000
FUNCTION4 NCDPE			1.842e3					616		1.81e4							0.000
FUNCTION5 DCDPE			3.423e3					534		2.47e4							0.000

Method: T:\Autospec\Methods\Dioxin230303.mdb 03 Mar 2023 14:58:50
Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 10:57:27

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TF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	25.77	1.334e6	1.787e6	0.702	0.75	0.77	11389.3	YES	NO	bb	bb	200.466
2	Total-tetrafurans	24.87	8.544e3	1.186e4	0.727	0.72	0.77	70.8	YES	NO	bb	bb	1.264
3	Total-tetrafurans	24.67	1.054e3	1.493e3	0.727	0.71	0.77	9.1	YES	NO	db	db	0.158
4	Total-tetrafurans	24.55	1.152e4	1.641e4	0.727	0.70	0.77	91.4	YES	NO	bd	bd	1.731

PP

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

PF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	23478-PeCDF	31.27	8.034e6	5.310e6	0.786	1.51	1.55	25734.3	YES	NO	bb	bb	1006.1...
2	Total-pentafurans	31.00	7.155e3	5.348e3	0.654	1.34	1.55	24.5	YES	NO	bb	bb	1.108
3	Total-pentafurans	30.22	6.707e3	3.991e3	0.654	1.68	1.55	18.6	YES	NO	bb	bb	0.948
4	12378-PeCDF	29.93	7.598e6	4.979e6	0.679	1.53	1.55	24983.0	YES	NO	bb	bb	1049.7...
5	Total-pentafurans	29.57	3.743e3	2.429e3	0.654	1.54	1.55	12.5	YES	NO	bd	bd	0.547
6	Total-pentafurans	28.85	2.348e4	1.505e4	0.654	1.56	1.55	59.4	YES	NO	bb	bb	3.415

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123678-HxCDF	35.04	8.729e6	6.976e6	1.091	1.25	1.24	82564.4	YES	NO	db	db	1005.9...
2	123478-HxCDF	34.90	7.954e6	6.371e6	1.166	1.25	1.24	76946.6	YES	NO	bd	bd	988.542
3	Total-hexafurans	34.75	7.748e3	5.706e3	1.141	1.36	1.24	87.3	YES	NO	bb	bb	0.913
4	Total-hexafurans	33.44	5.026e3	3.534e3	1.141	1.42	1.24	38.8	YES	NO	db	bb	0.581
5	123789-HxCDF	36.93	7.107e6	5.643e6	1.137	1.26	1.24	69330.3	YES	NO	bb	bb	962.631
6	Total-hexafurans	36.53	1.628e4	1.267e4	1.141	1.29	1.24	124.4	YES	NO	dd	bd	1.966
7	Total-hexafurans	36.13	1.100e5	8.424e4	1.141	1.31	1.24	706.6	YES	NO	dd	dd	13.189
8	234678-HxCDF	35.89	8.440e6	6.648e6	1.140	1.27	1.24	79492.3	YES	NO	bd	bd	997.904

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HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234789-HpCDF	41.01	4.891e6	4.848e6	0.953	1.01	1.05	12213.8	YES	NO	bb	bb	1050.4...
2	Total-heptafurans	39.43	9.256e3	7.833e3	0.978	1.18	1.05	24.5	YES	NO	bb	bb	1.656
3	1234678-HpCDF	38.77	5.729e6	5.700e6	1.003	1.01	1.05	16498.3	YES	NO	bb	bb	1001.5...

Furans,TF,PP,PF,HF,HPF,OF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	25.77	1.334e6	1.787e6	0.702	0.75	0.77	11389.3	YES	NO	bb	bb	200.466
2	Total-tetrafurans	24.87	8.544e3	1.186e4	0.727	0.72	0.77	70.8	YES	NO	bb	bb	1.264
3	Total-tetrafurans	24.67	1.054e3	1.493e3	0.727	0.71	0.77	9.1	YES	NO	db	db	0.158
4	Total-tetrafurans	24.55	1.152e4	1.641e4	0.727	0.70	0.77	91.4	YES	NO	bd	bd	1.731
5	23478-PeCDF	31.27	8.034e6	5.310e6	0.786	1.51	1.55	25734.3	YES	NO	bb	bb	1006.1...
6	Total-pentafurans	31.00	7.155e3	5.348e3	0.654	1.34	1.55	24.5	YES	NO	bb	bb	1.108
7	Total-pentafurans	30.22	6.707e3	3.991e3	0.654	1.68	1.55	18.6	YES	NO	bb	bb	0.948
8	12378-PeCDF	29.93	7.598e6	4.979e6	0.679	1.53	1.55	24983.0	YES	NO	bb	bb	1049.7...
9	Total-pentafurans	29.57	3.743e3	2.429e3	0.654	1.54	1.55	12.5	YES	NO	bd	bd	0.547
10	Total-pentafurans	28.85	2.348e4	1.505e4	0.654	1.56	1.55	59.4	YES	NO	bb	bb	3.415
11	123678-HxCDF	35.04	8.729e6	6.976e6	1.091	1.25	1.24	82564.4	YES	NO	db	db	1005.9...
12	123478-HxCDF	34.90	7.954e6	6.371e6	1.166	1.25	1.24	76946.6	YES	NO	bd	bd	988.542
13	Total-hexafurans	34.75	7.748e3	5.706e3	1.141	1.36	1.24	87.3	YES	NO	bb	bb	0.913
14	Total-hexafurans	33.44	5.026e3	3.534e3	1.141	1.42	1.24	38.8	YES	NO	db	bb	0.581
15	123789-HxCDF	36.93	7.107e6	5.643e6	1.137	1.26	1.24	69330.3	YES	NO	bb	bb	962.631
16	Total-hexafurans	36.53	1.628e4	1.267e4	1.141	1.29	1.24	124.4	YES	NO	dd	bd	1.966
17	Total-hexafurans	36.13	1.100e5	8.424e4	1.141	1.31	1.24	706.6	YES	NO	dd	dd	13.189
18	234678-HxCDF	35.89	8.440e6	6.648e6	1.140	1.27	1.24	79492.3	YES	NO	bd	bd	997.904
19	1234789-HpCDF	41.01	4.891e6	4.848e6	0.953	1.01	1.05	12213.8	YES	NO	bb	bb	1050.4...
20	Total-heptafurans	39.43	9.256e3	7.833e3	0.978	1.18	1.05	24.5	YES	NO	bb	bb	1.656
21	1234678-HpCDF	38.77	5.729e6	5.700e6	1.003	1.01	1.05	16498.3	YES	NO	bb	bb	1001.5...
22	OCDF	45.25	8.007e6	9.001e6	0.778	0.89	0.89	16387...	YES	NO	bb	bb	2152.5...

TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDD	26.42	1.623e6	2.053e6	1.149	0.79	0.77	15719.4	YES	NO	bb	bb	201.416
2	Total-tetradioxins	26.03	3.492e4	4.469e4	1.024	0.78	0.77	261.5	YES	NO	bb	bb	4.891
3	Total-tetradioxins	25.59	3.088e2	4.283e2	1.024	0.72	0.77	3.2	YES	NO	bb	bb	0.045
4	Total-tetradioxins	25.29	1.293e3	1.946e3	1.024	0.66	0.77	15.2	YES	NO	bb	bb	0.199

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PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-pentadioxins	30.29	1.049e3	6.224e2	1.502	1.68	1.55	4.4	YES	NO	dd	db	0.090
2	Total-pentadioxins	30.15	1.847e3	1.302e3	1.502	1.42	1.55	8.1	YES	NO	dd	dd	0.170
3	Total-pentadioxins	29.93	6.137e3	4.352e3	1.502	1.41	1.55	24.1	YES	NO	bd	bd	0.567
4	12378-PeCDD	31.53	7.500e6	4.933e6	1.022	1.52	1.55	35906.6	YES	NO	bb	bb	987.154
5	Total-pentadioxins	30.86	8.777e3	5.596e3	1.502	1.57	1.55	39.8	YES	NO	bd	bb	0.776

HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-hexadioxins	36.92	3.612e4	2.906e4	1.005	1.24	1.24	377.1	YES	NO	bb	bb	5.383
2	123789-HxCDD	36.52	6.387e6	5.242e6	0.907	1.22	1.24	81996.1	YES	NO	bb	bb	1063.9...
3	123678-HxCDD	36.14	6.944e6	5.798e6	1.001	1.20	1.24	87214.8	YES	NO	db	db	1011.1...
4	123478-HxCDD	36.02	6.446e6	5.113e6	0.996	1.26	1.24	82869.7	YES	NO	bd	bd	1008.7...

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-heptadioxins	40.66	1.670e2	1.486e2	1.088	1.12	1.05	0.0	NO	NO	bb	bb	0.028
2	1234678-HpCDD	40.27	5.468e6	5.342e6	1.039	1.02	1.05	19002.3	YES	NO	bb	bb	1010.6...

Dataset: T:\Autospec\Processed Data Batch\230303ICIH.qld
Last Altered: Monday, March 06, 2023 10:57:27 Pacific Standard Time
Printed: Monday, March 06, 2023 11:35:04 Pacific Standard Time

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Dioxins,TD,PD,HD,HPD,OD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDD	26.42	1.623e6	2.053e6	1.149	0.79	0.77	15719.4	YES	NO	bb	bb	201.416
2	Total-tetradioxins	26.03	3.492e4	4.469e4	1.024	0.78	0.77	261.5	YES	NO	bb	bb	4.891
3	Total-tetradioxins	25.59	3.088e2	4.283e2	1.024	0.72	0.77	3.2	YES	NO	bb	bb	0.045
4	Total-tetradioxins	25.29	1.293e3	1.946e3	1.024	0.66	0.77	15.2	YES	NO	bb	bb	0.199
5	Total-pentadioxins	30.29	1.049e3	6.224e2	1.502	1.68	1.55	4.4	YES	NO	dd	db	0.090
6	Total-pentadioxins	30.15	1.847e3	1.302e3	1.502	1.42	1.55	8.1	YES	NO	dd	dd	0.170
7	Total-pentadioxins	29.93	6.137e3	4.352e3	1.502	1.41	1.55	24.1	YES	NO	bd	bd	0.567
8	12378-PeCDD	31.53	7.500e6	4.933e6	1.022	1.52	1.55	35906.6	YES	NO	bb	bb	987.154
9	Total-pentadioxins	30.86	8.777e3	5.596e3	1.502	1.57	1.55	39.8	YES	NO	bd	bb	0.776
10	Total-hexadioxins	36.92	3.612e4	2.906e4	1.005	1.24	1.24	377.1	YES	NO	bb	bb	5.383
11	123789-HxCDD	36.52	6.387e6	5.242e6	0.907	1.22	1.24	81996.1	YES	NO	bb	bb	1063.9...
12	123678-HxCDD	36.14	6.944e6	5.798e6	1.001	1.20	1.24	87214.8	YES	NO	db	db	1011.1...
13	123478-HxCDD	36.02	6.446e6	5.113e6	0.996	1.26	1.24	82869.7	YES	NO	bd	bd	1008.7...
14	Total-heptadioxins	40.66	1.670e2	1.486e2	1.088	1.12	1.05	0.0	NO	NO	bb	bb	0.028
15	1234678-HpCDD	40.27	5.468e6	5.342e6	1.039	1.02	1.05	19002.3	YES	NO	bb	bb	1010.6...
16	OCDD	45.01	8.523e6	9.997e6	0.920	0.85	0.89	89206.2	YES	NO	bb	bb	1981.7...

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TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	2378-TCDF	25.77	1.334e6	1.787e6	0.702	0.75	0.77	11389.3	YES	NO	bb	bb	200.466
2	Total-tetrafurans	24.87	8.544e3	1.186e4	0.727	0.72	0.77	70.8	YES	NO	bb	bb	1.264
3	Total-tetrafurans	24.67	1.054e3	1.493e3	0.727	0.71	0.77	9.1	YES	NO	db	db	0.158
4	Total-tetrafurans	24.55	1.152e4	1.641e4	0.727	0.70	0.77	91.4	YES	NO	bd	bd	1.731
5	23478-PeCDF	31.27	8.034e6	5.310e6	0.786	1.51	1.55	25734.3	YES	NO	bb	bb	1006.1...
6	Total-pentafurans	31.00	7.155e3	5.348e3	0.654	1.34	1.55	24.5	YES	NO	bb	bb	1.108
7	Total-pentafurans	30.22	6.707e3	3.991e3	0.654	1.68	1.55	18.6	YES	NO	bb	bb	0.948
8	12378-PeCDF	29.93	7.598e6	4.979e6	0.679	1.53	1.55	24983.0	YES	NO	bb	bb	1049.7...
9	Total-pentafurans	29.57	3.743e3	2.429e3	0.654	1.54	1.55	12.5	YES	NO	bd	bd	0.547
10	Total-pentafurans	28.85	2.348e4	1.505e4	0.654	1.56	1.55	59.4	YES	NO	bb	bb	3.415
11	123678-HxCDF	35.04	8.729e6	6.976e6	1.091	1.25	1.24	82564.4	YES	NO	db	db	1005.9...
12	123478-HxCDF	34.90	7.954e6	6.371e6	1.166	1.25	1.24	76946.6	YES	NO	bd	bd	988.542
13	Total-hexafurans	34.75	7.748e3	5.706e3	1.141	1.36	1.24	87.3	YES	NO	bb	bb	0.913
14	Total-hexafurans	33.44	5.026e3	3.534e3	1.141	1.42	1.24	38.8	YES	NO	db	bb	0.581
15	123789-HxCDF	36.93	7.107e6	5.643e6	1.137	1.26	1.24	69330.3	YES	NO	bb	bb	962.631
16	Total-hexafurans	36.53	1.628e4	1.267e4	1.141	1.29	1.24	124.4	YES	NO	dd	bd	1.966
17	Total-hexafurans	36.13	1.100e5	8.424e4	1.141	1.31	1.24	706.6	YES	NO	dd	dd	13.189
18	234678-HxCDF	35.89	8.440e6	6.648e6	1.140	1.27	1.24	79492.3	YES	NO	bd	bd	997.904
19	1234789-HpCDF	41.01	4.891e6	4.848e6	0.953	1.01	1.05	12213.8	YES	NO	bb	bb	1050.4...
20	Total-heptafurans	39.43	9.256e3	7.833e3	0.978	1.18	1.05	24.5	YES	NO	bb	bb	1.656
21	1234678-HpCDF	38.77	5.729e6	5.700e6	1.003	1.01	1.05	16498.3	YES	NO	bb	bb	1001.5...
22	OCDF	45.25	8.007e6	9.001e6	0.778	0.89	0.89	16387...	YES	NO	bb	bb	2152.5...
23	2378-TCDD	26.42	1.623e6	2.053e6	1.149	0.79	0.77	15719.4	YES	NO	bb	bb	201.416
24	Total-tetradioxins	26.03	3.492e4	4.469e4	1.024	0.78	0.77	261.5	YES	NO	bb	bb	4.891
25	Total-tetradioxins	25.59	3.088e2	4.283e2	1.024	0.72	0.77	3.2	YES	NO	bb	bb	0.045
26	Total-tetradioxins	25.29	1.293e3	1.946e3	1.024	0.66	0.77	15.2	YES	NO	bb	bb	0.199
27	Total-pentadioxins	30.29	1.049e3	6.224e2	1.502	1.68	1.55	4.4	YES	NO	dd	db	0.090
28	Total-pentadioxins	30.15	1.847e3	1.302e3	1.502	1.42	1.55	8.1	YES	NO	dd	dd	0.170
29	Total-pentadioxins	29.93	6.137e3	4.352e3	1.502	1.41	1.55	24.1	YES	NO	bd	bd	0.567
30	12378-PeCDD	31.53	7.500e6	4.933e6	1.022	1.52	1.55	35906.6	YES	NO	bb	bb	987.154
31	Total-pentadioxins	30.86	8.777e3	5.596e3	1.502	1.57	1.55	39.8	YES	NO	bd	bb	0.776
32	Total-hexadioxins	36.92	3.612e4	2.906e4	1.005	1.24	1.24	377.1	YES	NO	bb	bb	5.383
33	123789-HxCDD	36.52	6.387e6	5.242e6	0.907	1.22	1.24	81996.1	YES	NO	bb	bb	1063.9...
34	123678-HxCDD	36.14	6.944e6	5.798e6	1.001	1.20	1.24	87214.8	YES	NO	db	db	1011.1...
35	123478-HxCDD	36.02	6.446e6	5.113e6	0.996	1.26	1.24	82869.7	YES	NO	bd	bd	1008.7...
36	Total-heptadioxins	40.66	1.670e2	1.486e2	1.088	1.12	1.05	0.0	NO	NO	bb	bb	0.028
37	1234678-HpCDD	40.27	5.468e6	5.342e6	1.039	1.02	1.05	19002.3	YES	NO	bb	bb	1010.6...

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TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	OCDD	45.01	8.523e6	9.997e6	0.920	0.85	0.89	89206.2	YES	NO	bb	bb	1981.7...

PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	23.64	6.068e3					0.7	NO		bb		
2	FUNCTION1 PFK	21.78	2.376e4					1.4	NO		bb		
3	FUNCTION1 PFK	26.65	6.322e3					0.8	NO		bb		
4	FUNCTION1 PFK	26.20	6.018e3					0.7	NO		bb		
5	FUNCTION1 PFK	24.62	4.147e4					1.9	NO		bb		

PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	31.96	1.329e6					11.3	YES		db		0.000
2	FUNCTION2 PFK	29.68	9.729e6					13.1	YES		dd		0.000
3	FUNCTION2 PFK	29.12	3.197e6					12.0	YES		dd		0.000
4	FUNCTION2 PFK	28.11	2.639e5					6.8	YES		bd		0.000

PFK3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	35.58	5.268e3					0.6	NO		bb		0.000
2	FUNCTION3 PFK	35.20	2.459e4					1.4	NO		bb		0.000
3	FUNCTION3 PFK	34.94	1.904e4					1.3	NO		bb		0.000
4	FUNCTION3 PFK	34.64	1.893e4					1.6	NO		bb		0.000
5	FUNCTION3 PFK	34.45	3.091e4					1.7	NO		bb		0.000
6	FUNCTION3 PFK	34.20	2.876e3					0.6	NO		bb		0.000
7	FUNCTION3 PFK	34.01	8.291e4					2.8	NO		bb		0.000
8	FUNCTION3 PFK	37.45	2.878e4					1.5	NO		bb		0.000
9	FUNCTION3 PFK	37.14	1.025e4					1.2	NO		bb		0.000
10	FUNCTION3 PFK	36.92	2.201e4					1.4	NO		bb		0.000
11	FUNCTION3 PFK	36.82	6.882e3					0.7	NO		bb		0.000
12	FUNCTION3 PFK	36.27	2.697e4					1.6	NO		bb		0.000
13	FUNCTION3 PFK	35.83	1.096e4					1.2	NO		bb		0.000

ID: CS5CW, Name: 23030309, Date: 03-Mar-2023, Time: 15:47:43, Conditions: AUTOSPEC01, User: pk

PFK4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	40.36	1.487e4					2.2	NO		db		
2	FUNCTION4 PFK	40.28	5.399e4					2.8	NO		bd		
3	FUNCTION4 PFK	39.84	7.632e3					1.3	NO		bb		
4	FUNCTION4 PFK	39.63	5.817e3					1.3	NO		bb		
5	FUNCTION4 PFK	39.58	2.233e4					2.4	NO		bb		
6	FUNCTION4 PFK	39.26	1.840e3					0.6	NO		bb		
7	FUNCTION4 PFK	39.15	1.821e4					2.0	NO		bb		
8	FUNCTION4 PFK	38.75	4.539e3					0.9	NO		bb		
9	FUNCTION4 PFK	38.40	3.735e3					0.9	NO		bb		
10	FUNCTION4 PFK	42.22	2.101e4					1.9	NO		bb		
11	FUNCTION4 PFK	41.91	9.871e3					1.2	NO		bb		
12	FUNCTION4 PFK	41.56	2.609e4					2.3	NO		bb		
13	FUNCTION4 PFK	40.96	8.343e3					1.4	NO		bb		

PFK5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	45.55	1.986e4					1.8	NO		bb		
2	FUNCTION5 PFK	44.84	1.038e4					2.0	NO		bb		
3	FUNCTION5 PFK	44.32	5.641e3					1.1	NO		bb		
4	FUNCTION5 PFK	44.16	5.508e3					1.3	NO		bb		
5	FUNCTION5 PFK	43.92	3.533e3					1.2	NO		bb		
6	FUNCTION5 PFK	43.74	1.099e4					1.6	NO		bb		
7	FUNCTION5 PFK	43.65	5.197e4					3.3	YES		db		
8	FUNCTION5 PFK	43.53	1.828e4					2.1	NO		bd		
9	FUNCTION5 PFK	42.94	8.618e3					1.5	NO		bb		
10	FUNCTION5 PFK	42.73	1.271e3					0.6	NO		bb		

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ETHERS1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	27.02	8.181e1					1.9	NO		bb		0.000
2	FUNCTION1 HXCD...	26.42	2.971e2					5.1	YES		bb		0.000
3	FUNCTION1 HXCD...	25.83	8.848e1					2.3	NO		db		0.000
4	FUNCTION1 HXCD...	25.77	1.170e2					2.5	NO		dd		0.000
5	FUNCTION1 HXCD...	25.59	1.285e2					2.6	NO		bd		0.000
6	FUNCTION1 HXCD...	24.84	1.183e2					1.2	NO		bb		0.000
7	FUNCTION1 HXCD...	24.11	7.501e1					1.5	NO		bb		0.000
8	FUNCTION1 HXCD...	22.26	7.865e1					3.6	YES		bb		0.000

ETHERS2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	31.55	8.739e2					12.4	YES		bb		0.000
2	FUNCTION2 HPCD...	31.16	9.100e3					161.2	YES		bb		0.000

ETHERS4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	36.02	1.011e3					23.2	YES		dd		0.000
2	FUNCTION3 OCDPE	35.92	4.171e2					12.8	YES		bd		0.000
3	FUNCTION3 OCDPE	35.05	6.001e2					12.0	YES		db		0.000
4	FUNCTION3 OCDPE	34.90	4.386e2					11.4	YES		bd		0.000
5	FUNCTION3 OCDPE	36.94	5.713e2					12.4	YES		bb		0.000
6	FUNCTION3 OCDPE	36.52	9.647e2					21.7	YES		bb		0.000
7	FUNCTION3 OCDPE	36.14	1.116e3					24.0	YES		db		0.000

ETHERS5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	41.03	4.935e2					7.5	YES		bb		0.000
2	FUNCTION4 NCDPE	40.28	7.486e2					12.2	YES		bb		0.000
3	FUNCTION4 NCDPE	38.78	6.004e2					9.6	YES		bb		0.000

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ETHERS6

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 DCDPE	45.26	1.761e3					22.2	YES		db		0.000
2	FUNCTION5 DCDPE	45.02	1.661e3					24.0	YES		bd		0.000

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ID: CS5CW, Name: 23030309, Date: 03-Mar-2023, Time: 15:47:43, Conditions: AUTOSPEC01, User: pk

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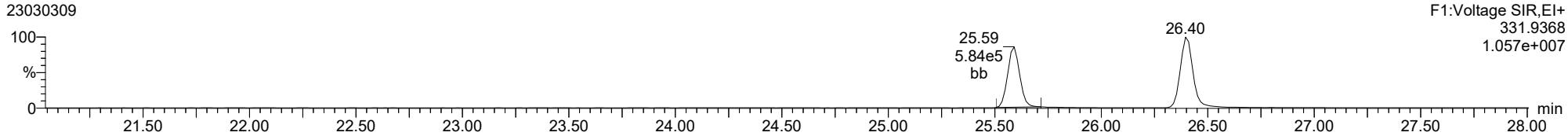

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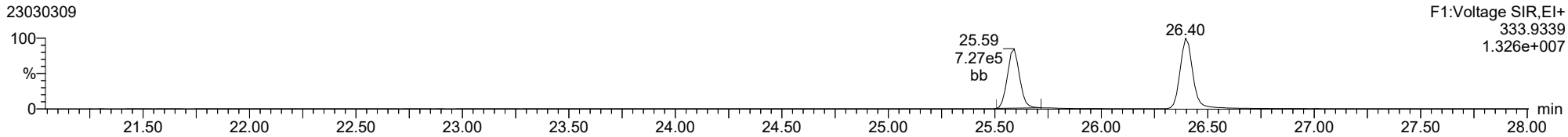

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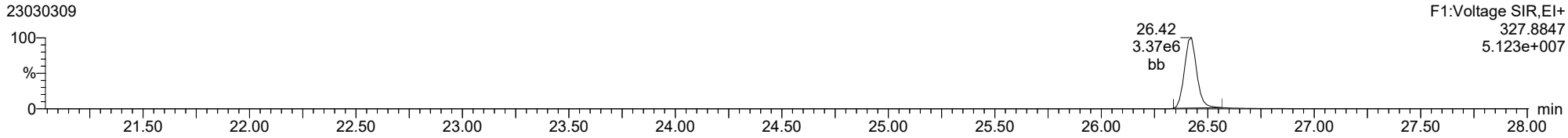

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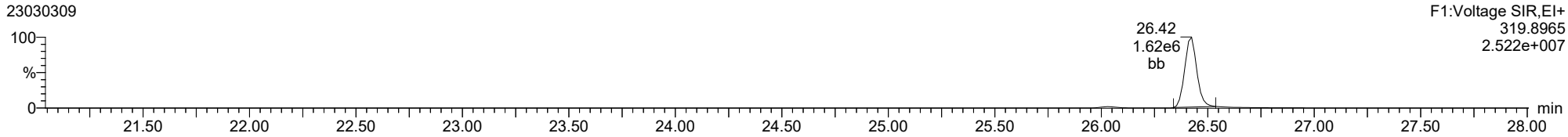

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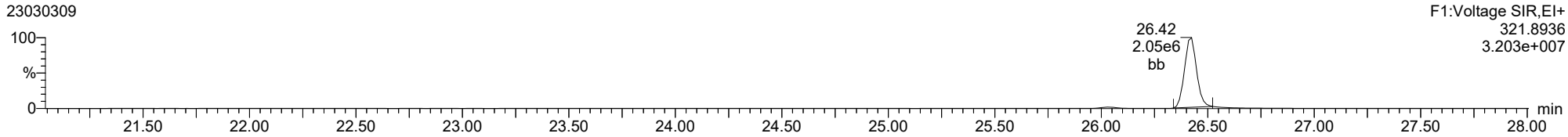

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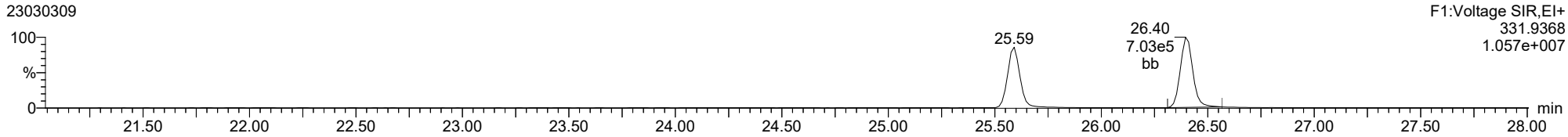

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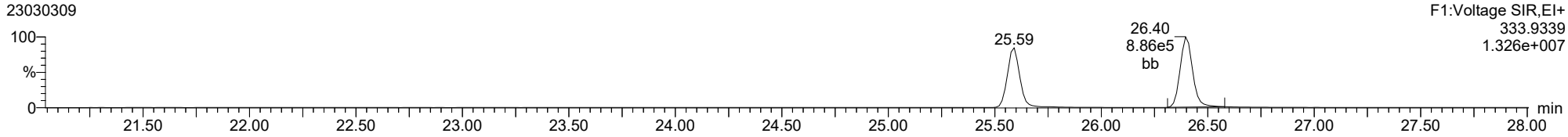

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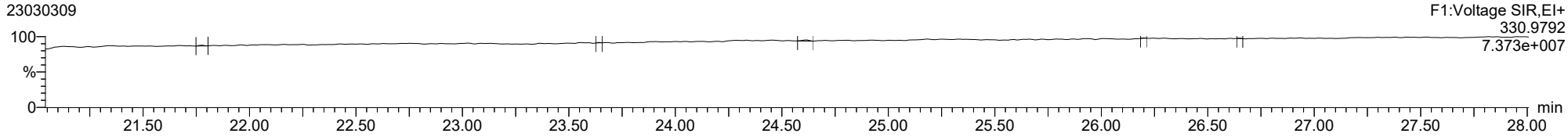

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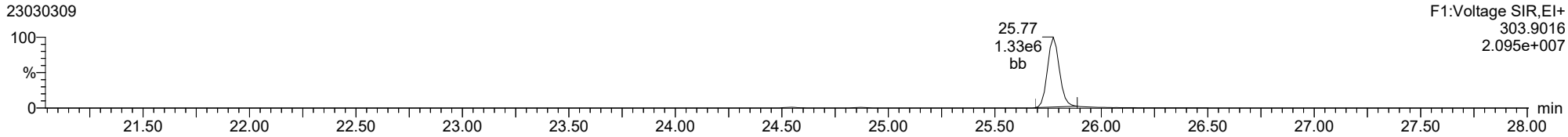

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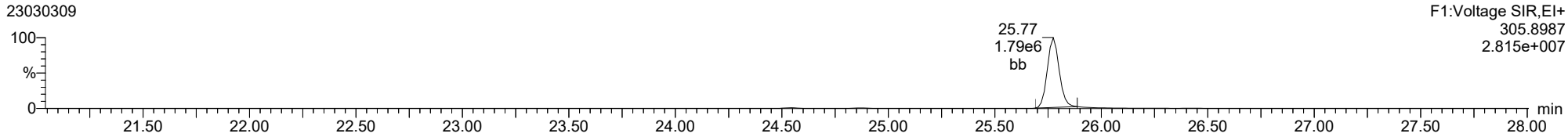

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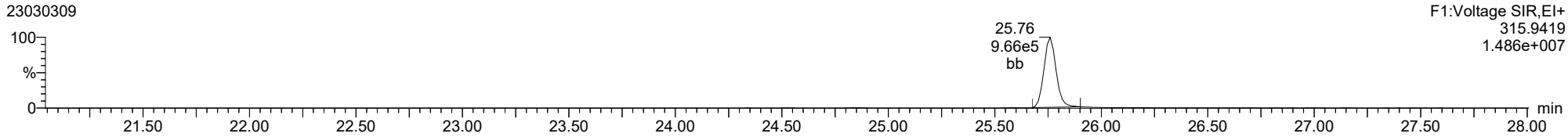

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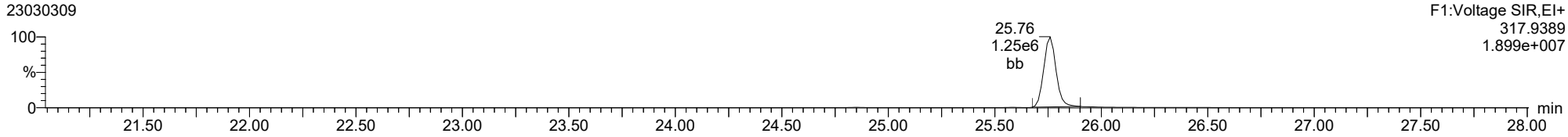

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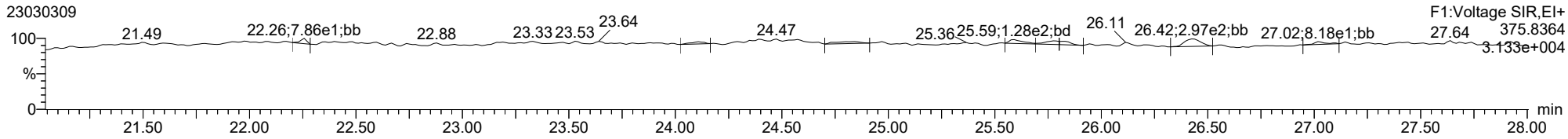

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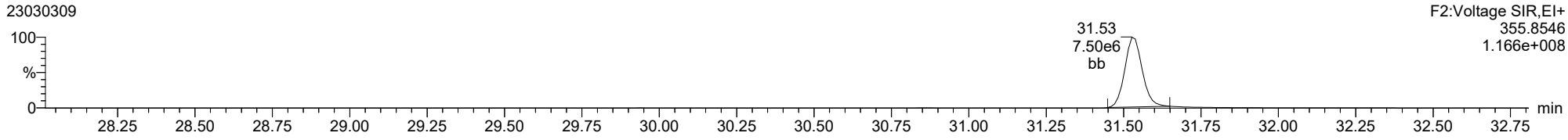

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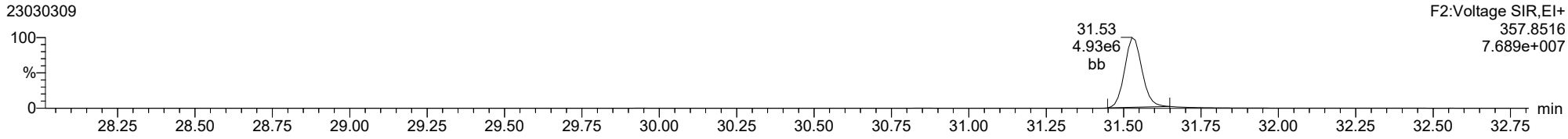

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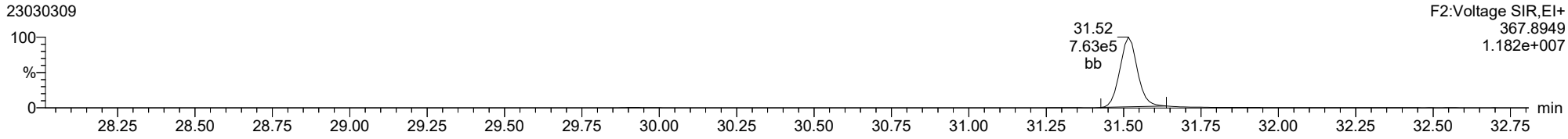

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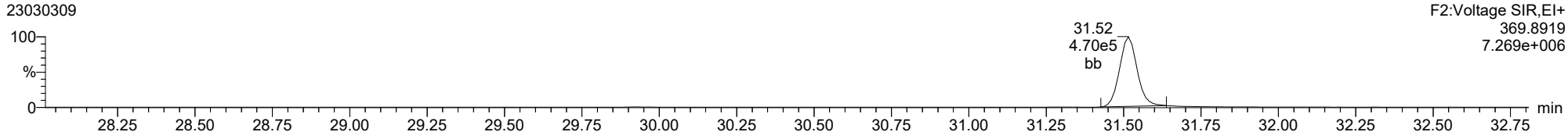

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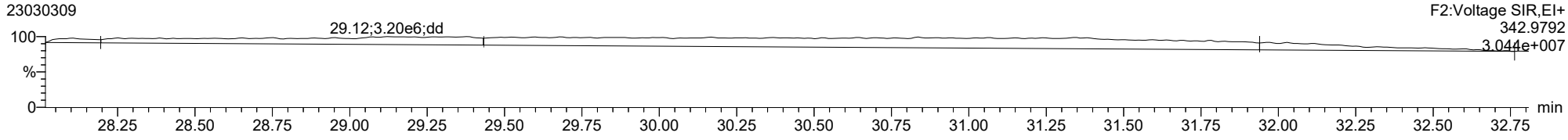

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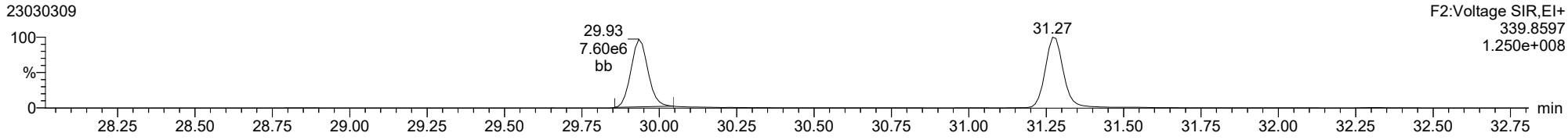

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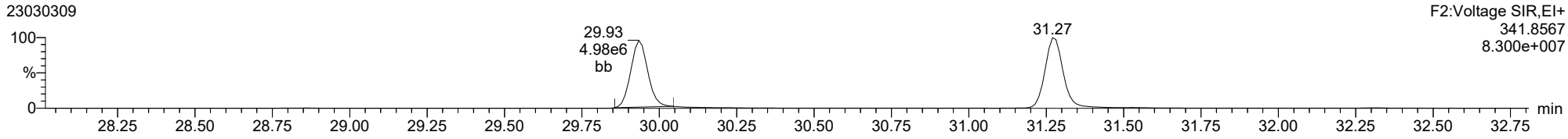

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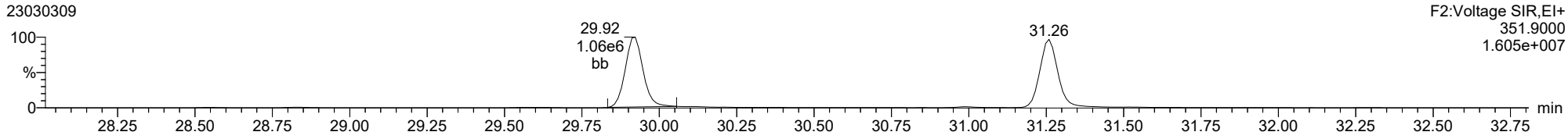

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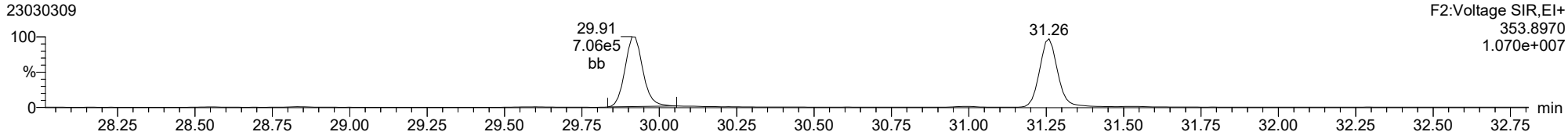
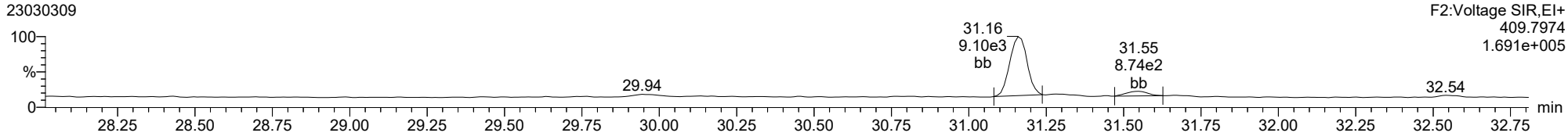


FUNCTION2 HPCDPE



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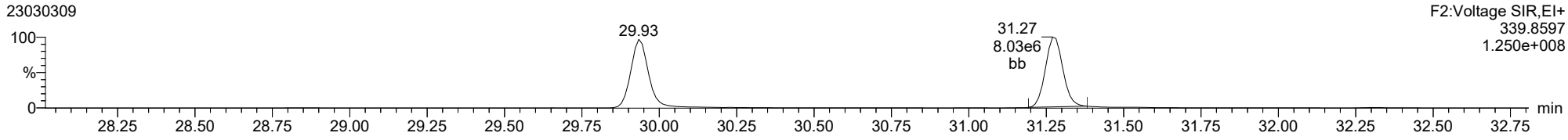
23478-PeCDF



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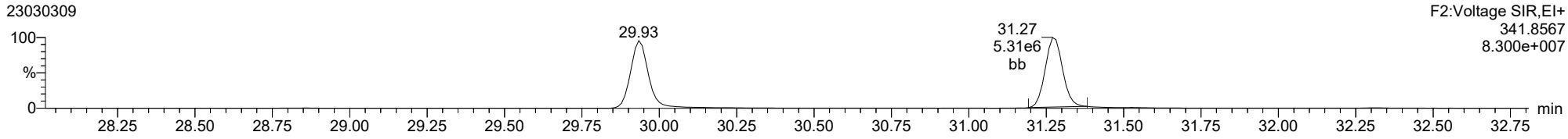

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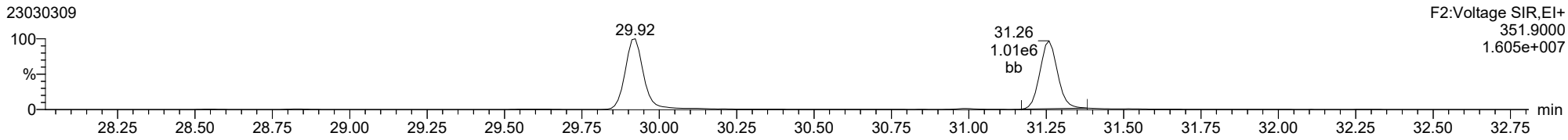

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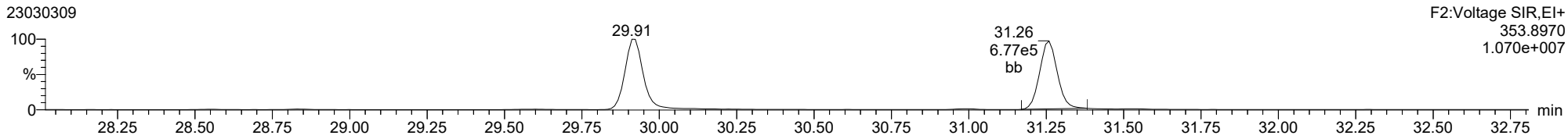

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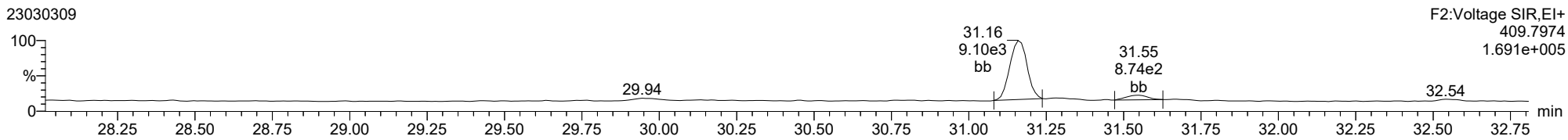

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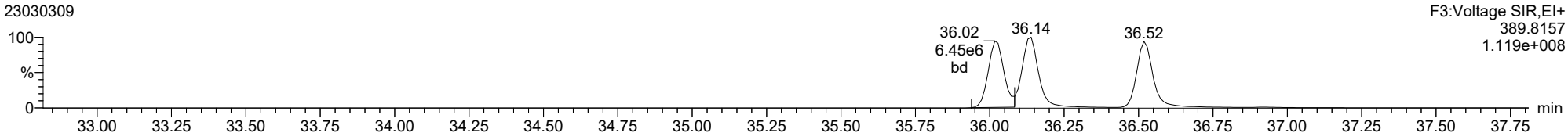

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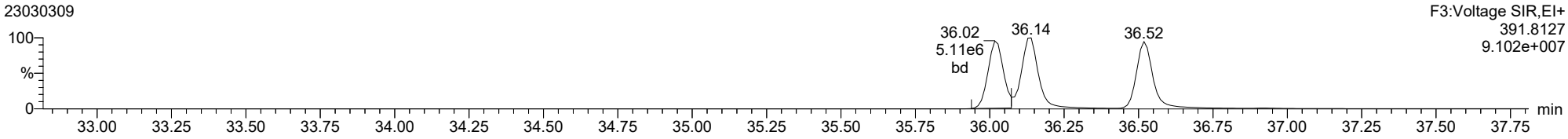

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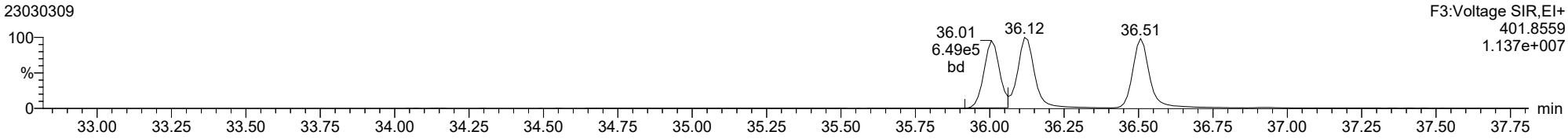

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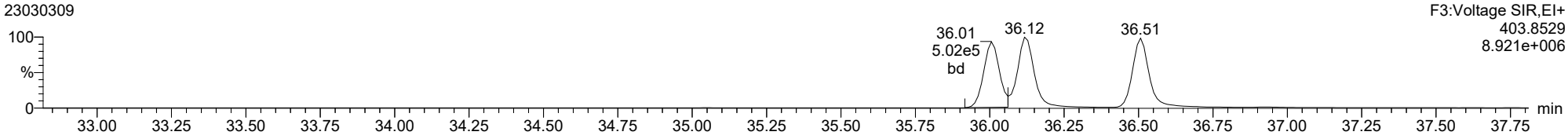

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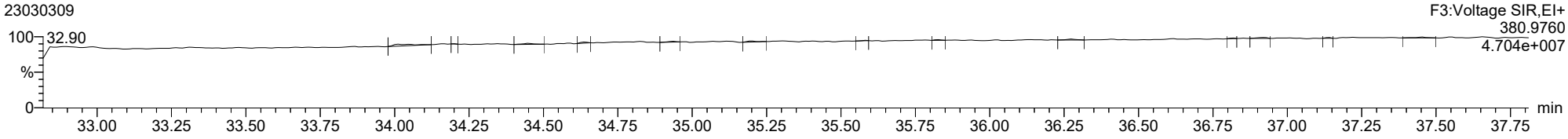

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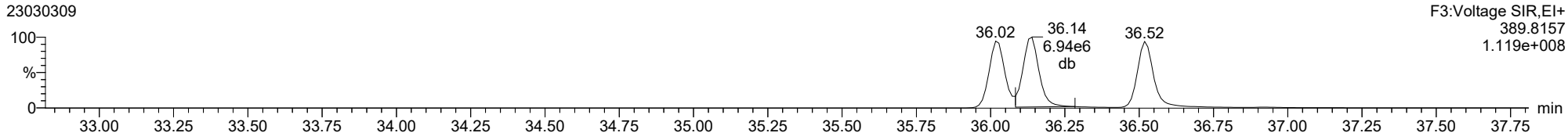

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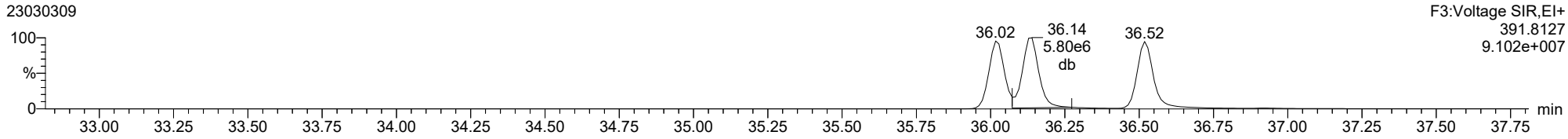

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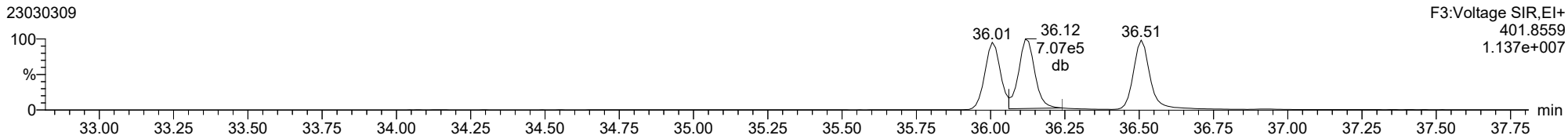

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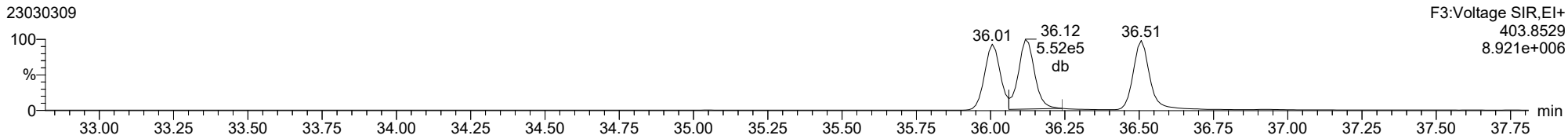

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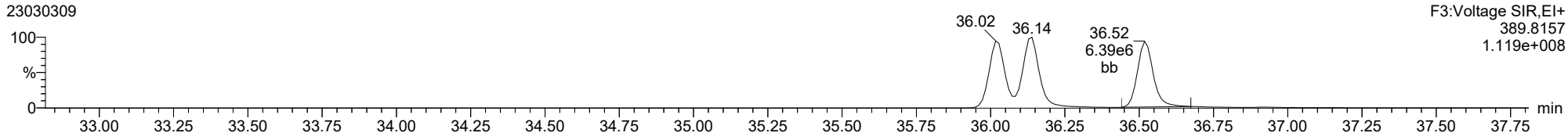

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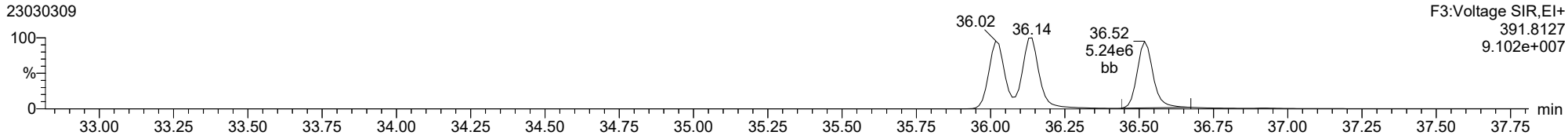

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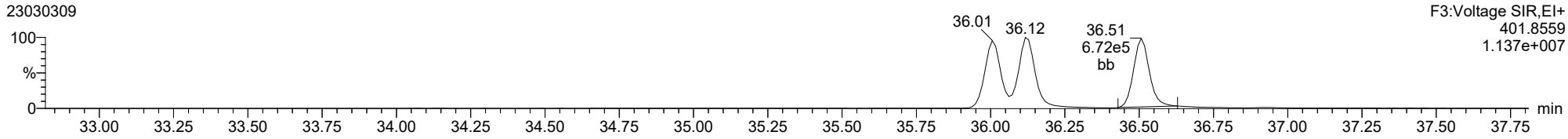

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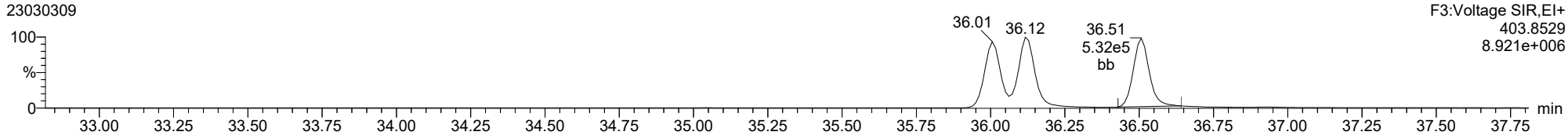

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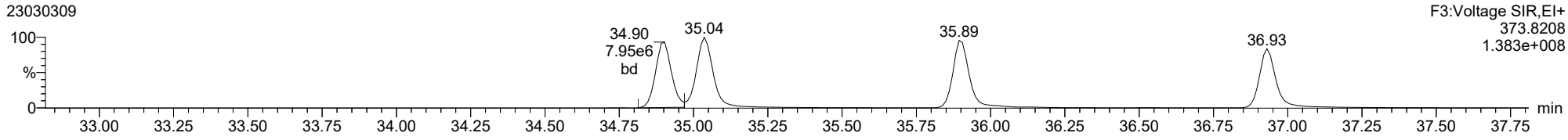

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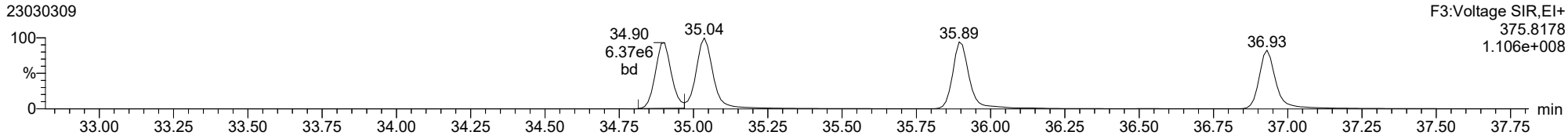

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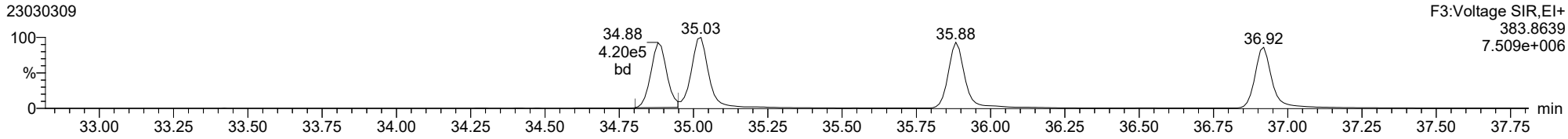

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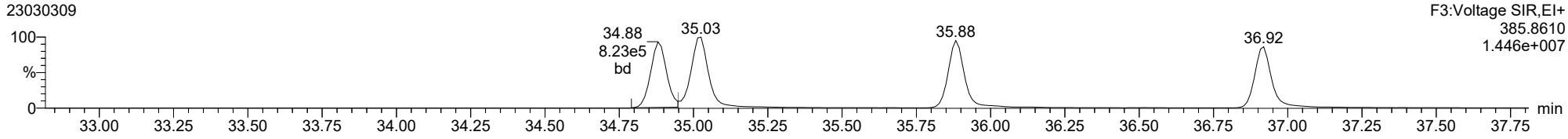

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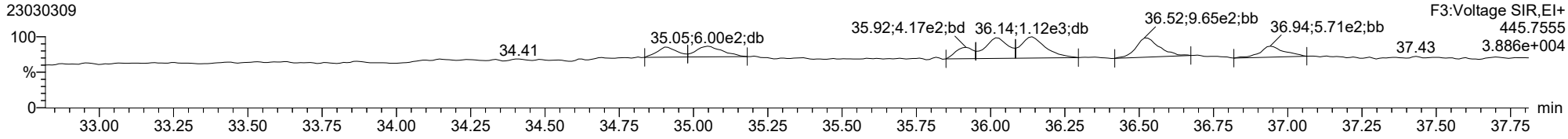

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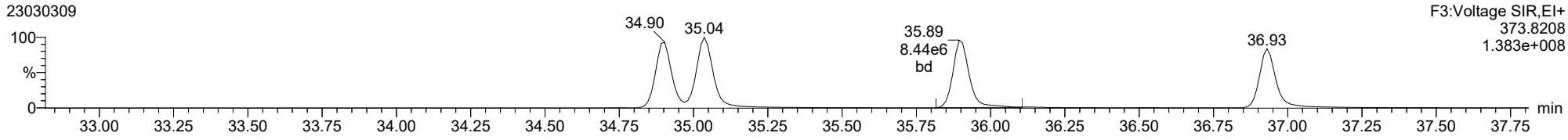

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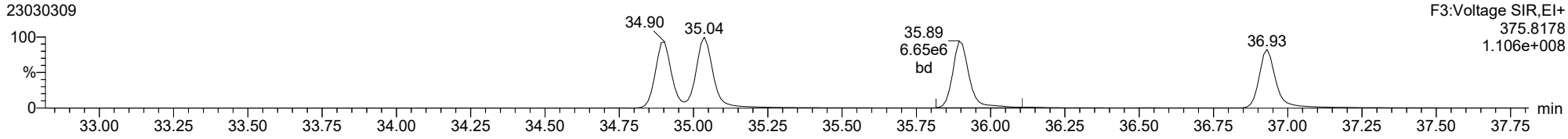

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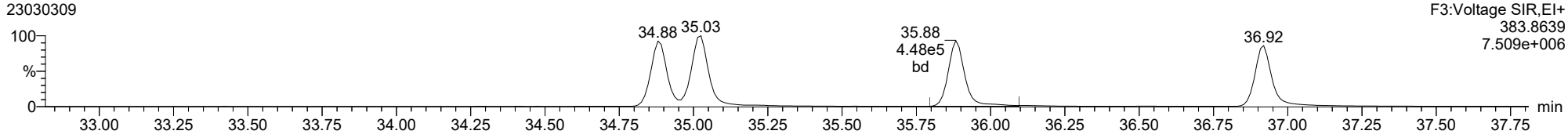

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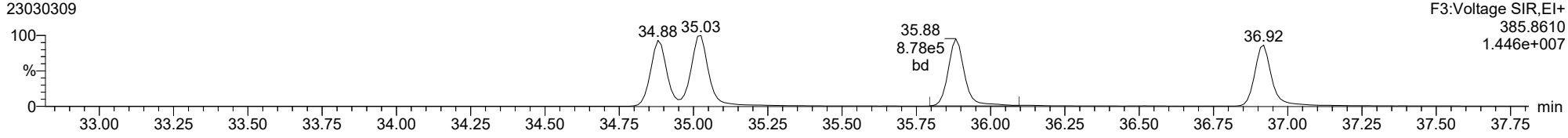

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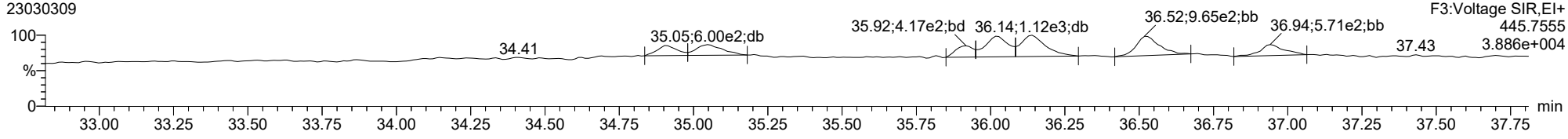

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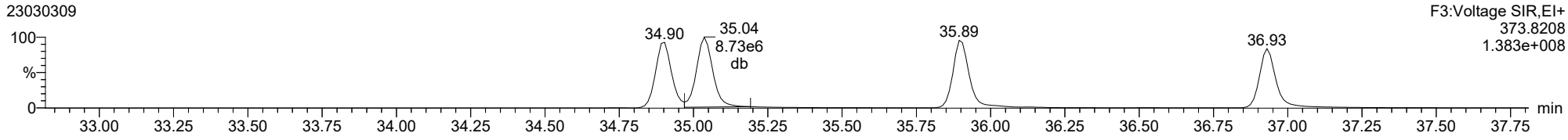

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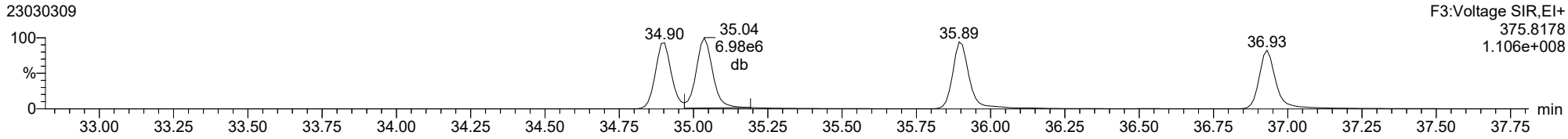

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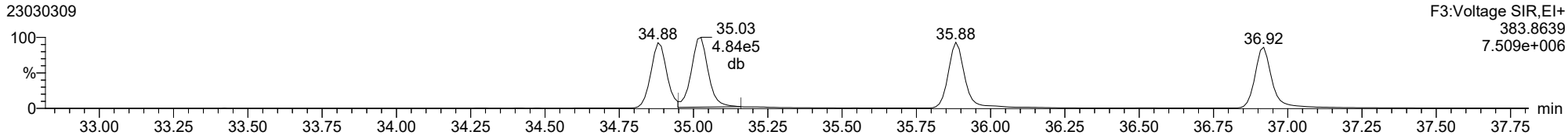

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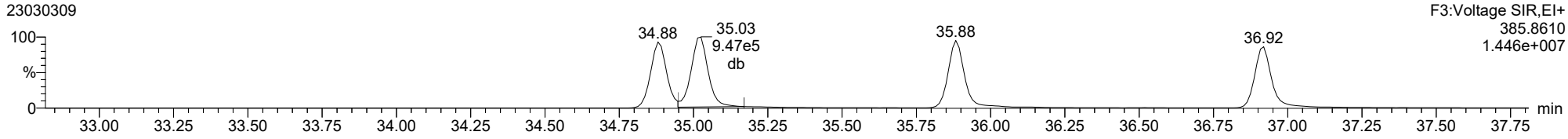

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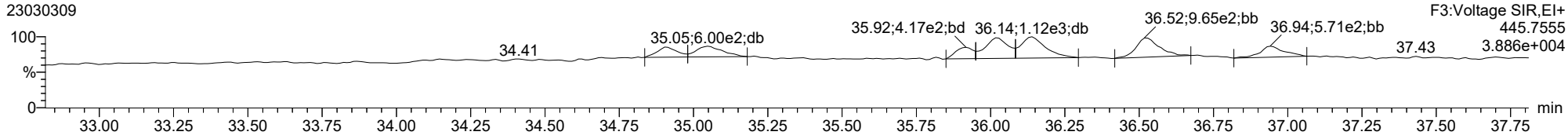

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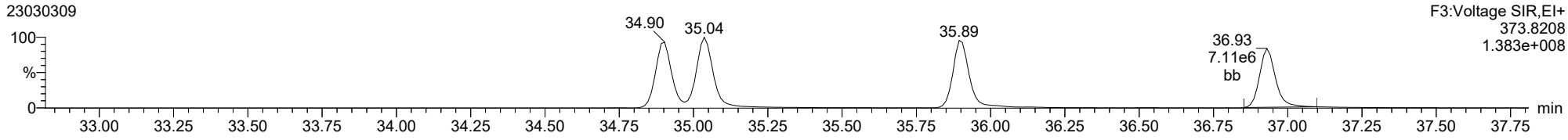

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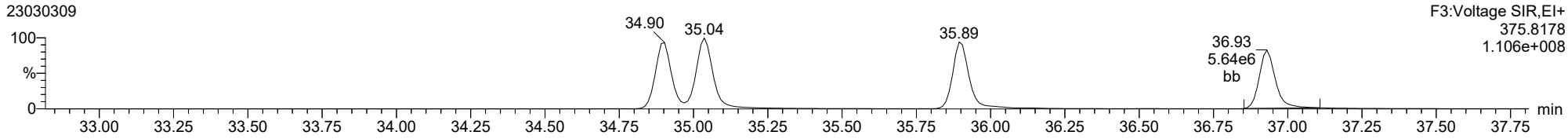

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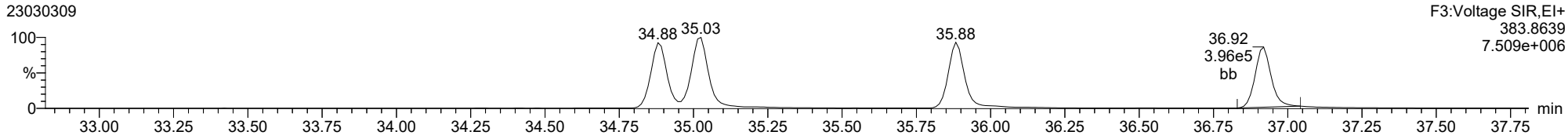

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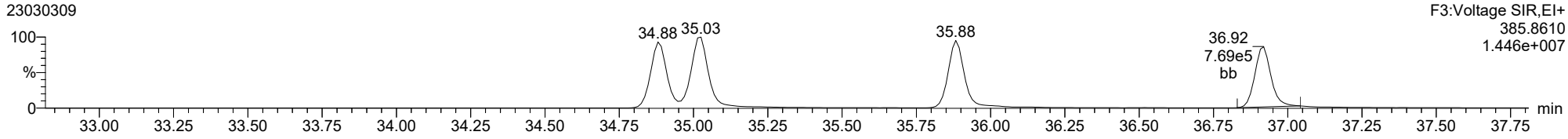

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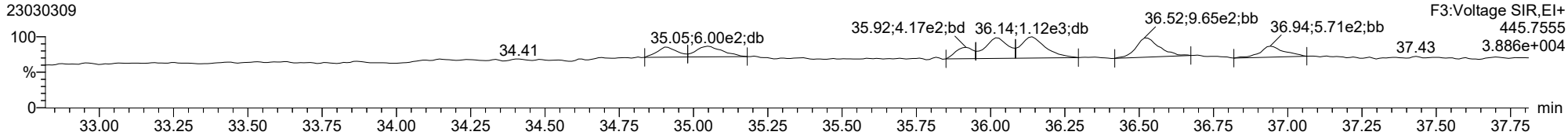

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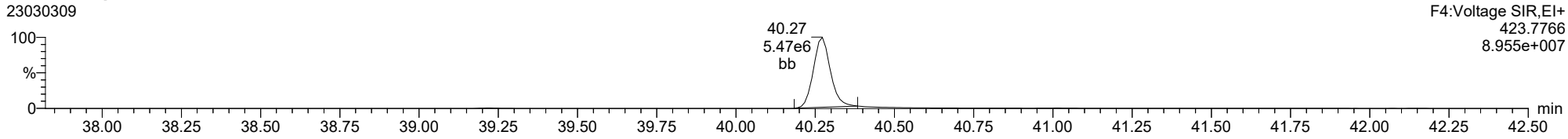

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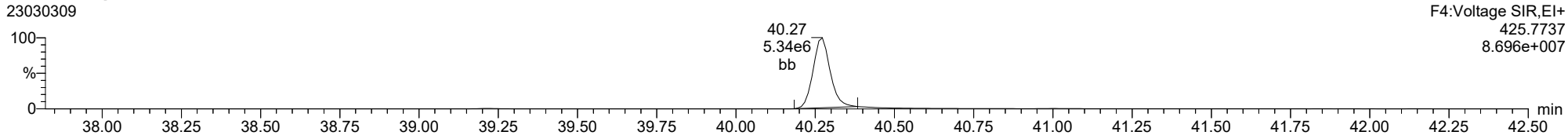

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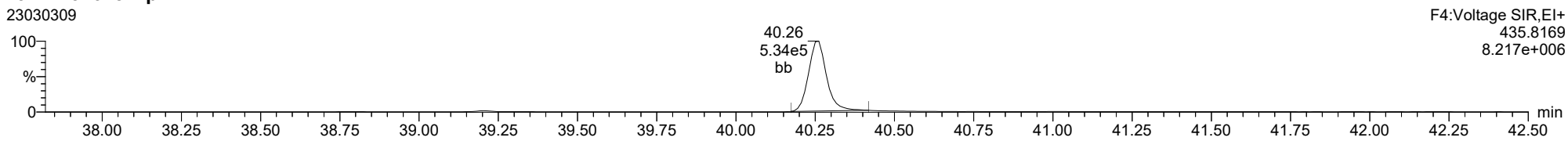

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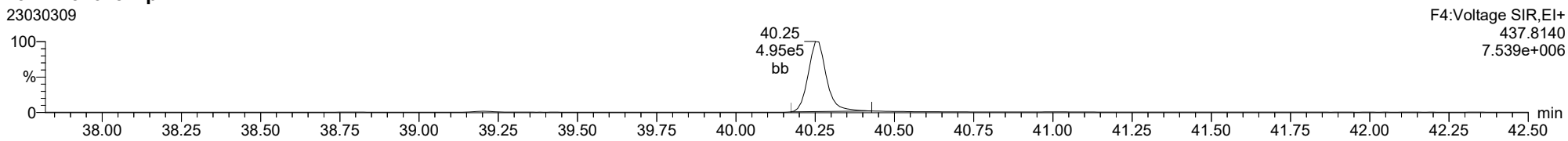

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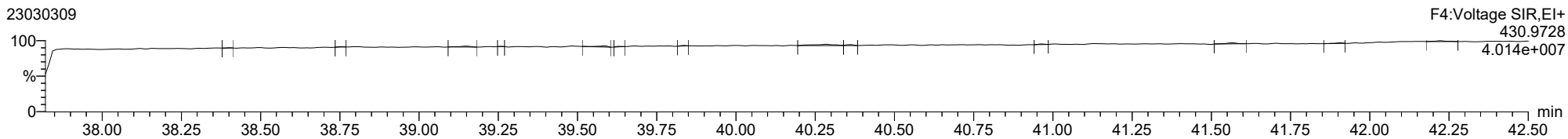

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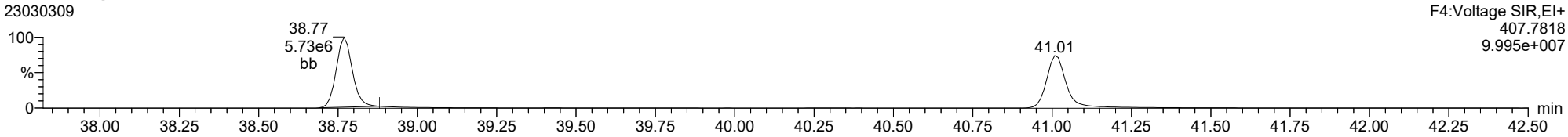

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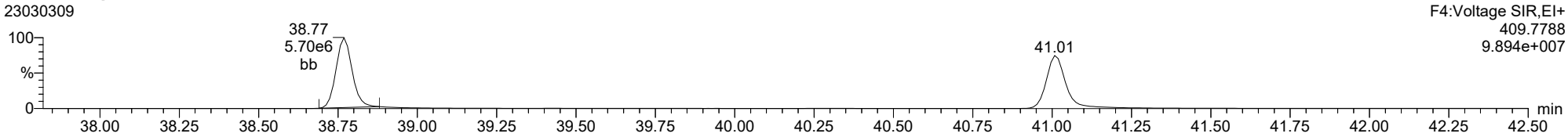

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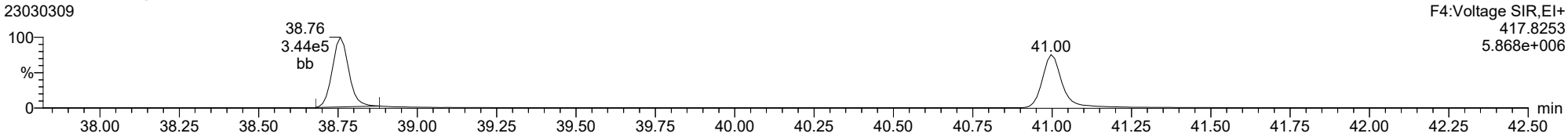

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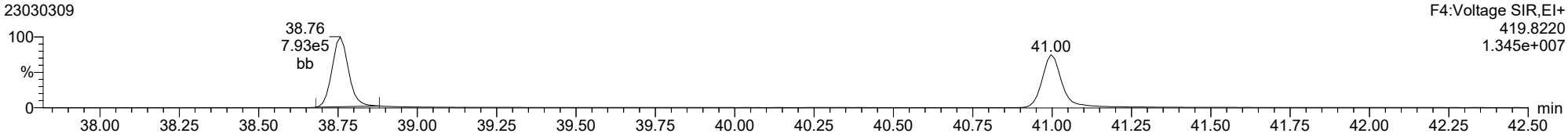

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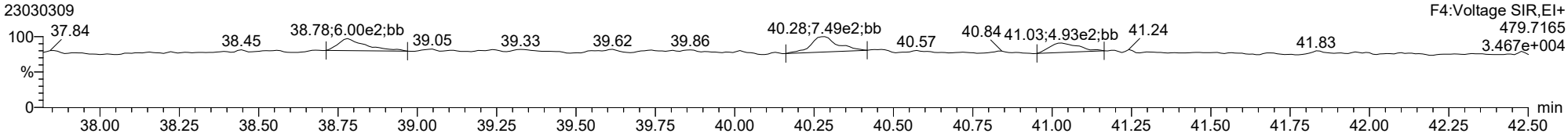

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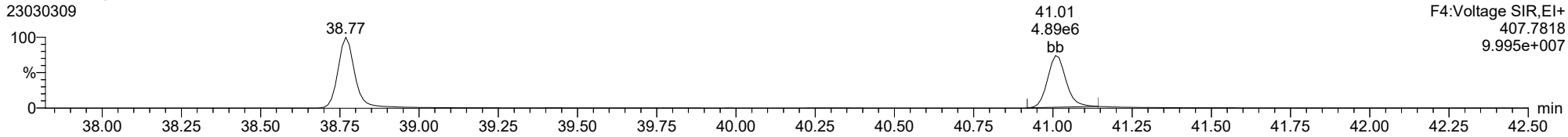

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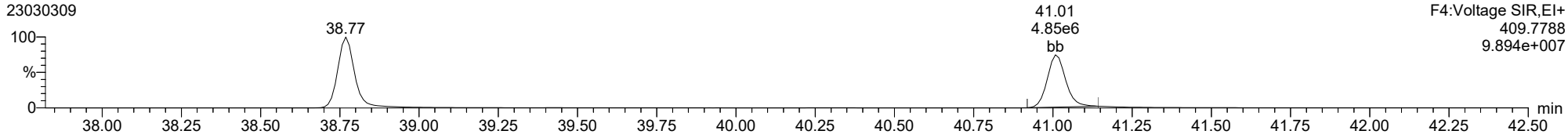

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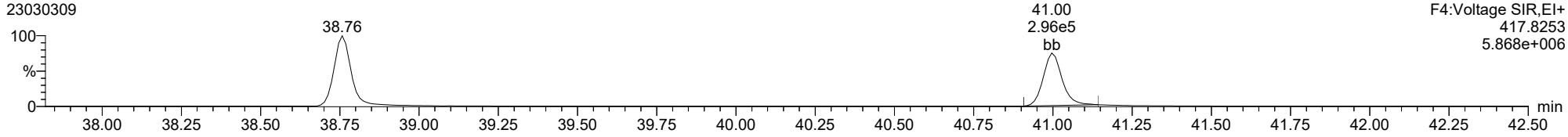

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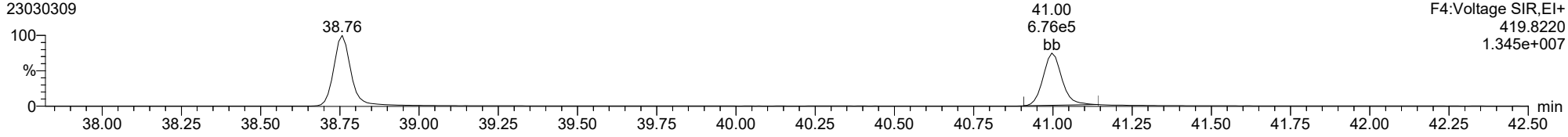

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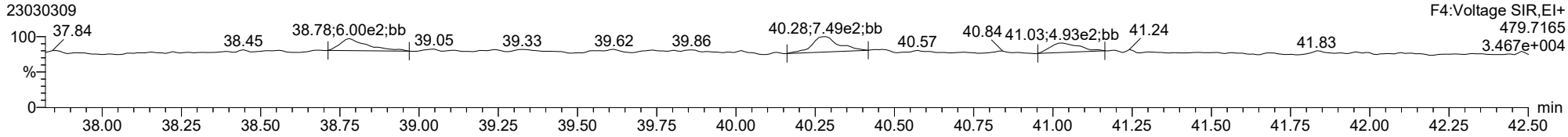

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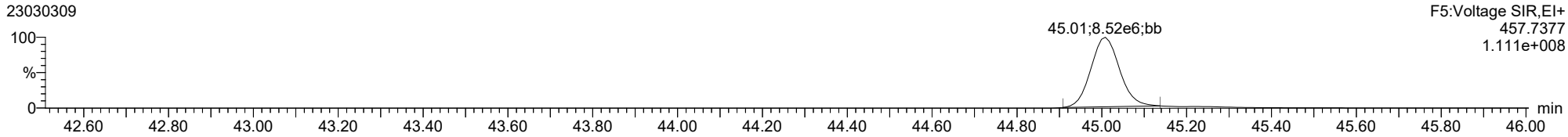

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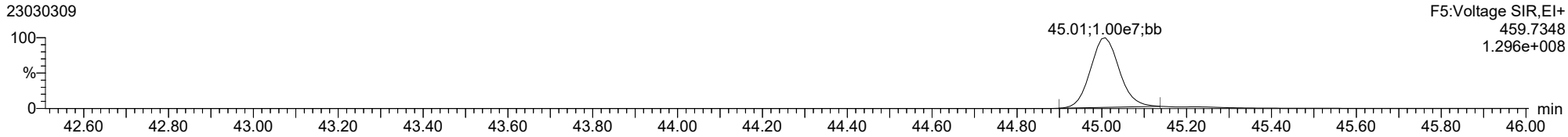

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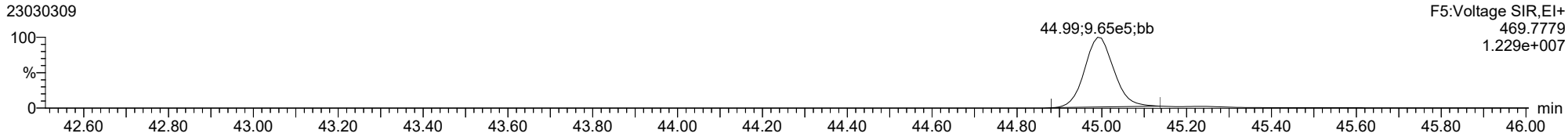

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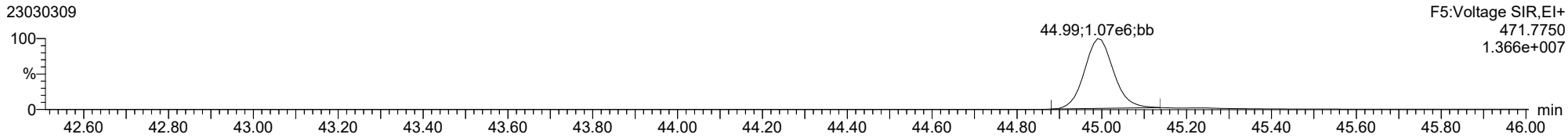
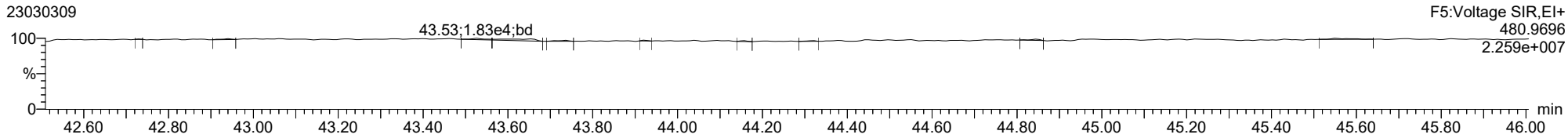


FUNCTION5 PFK



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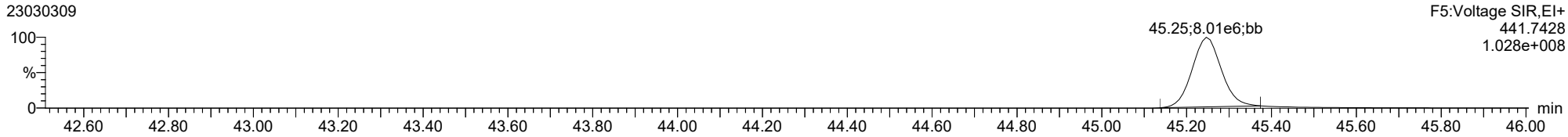
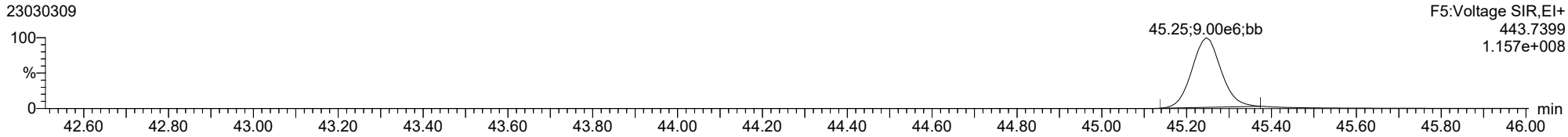
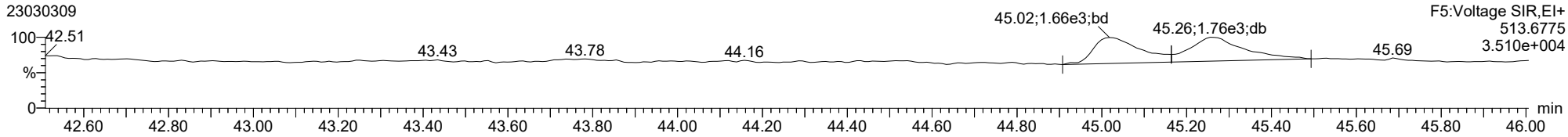


OCDF



FUNCTION5 DCDPE



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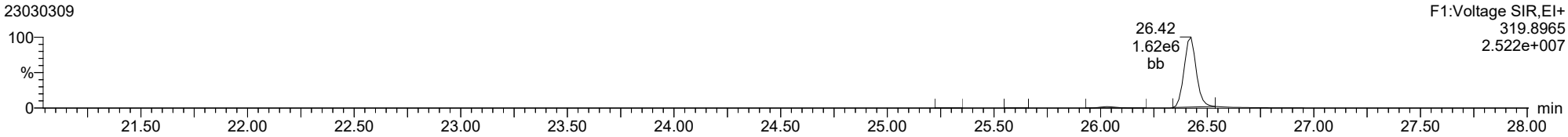

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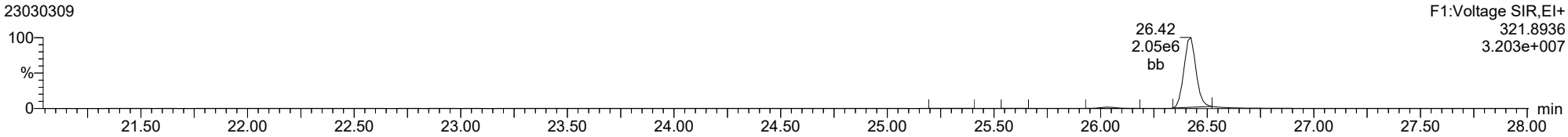

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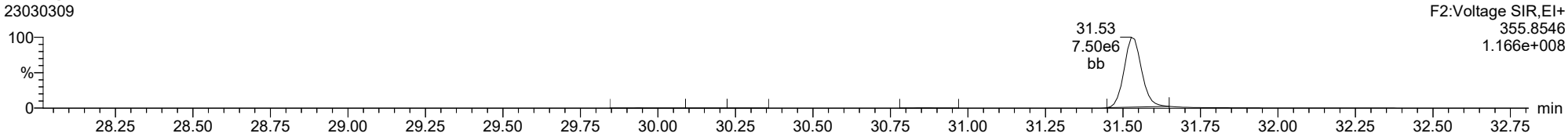

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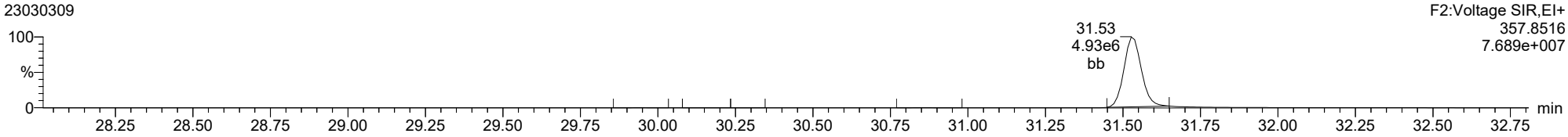

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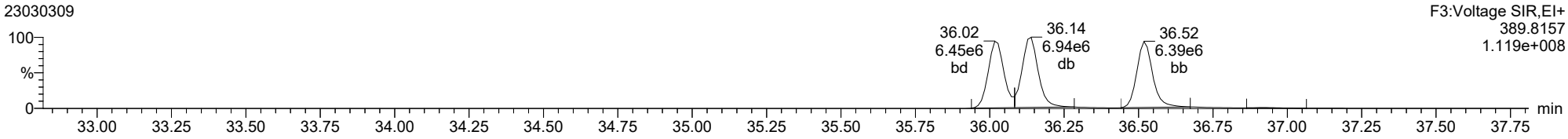
Total-hexadioxins



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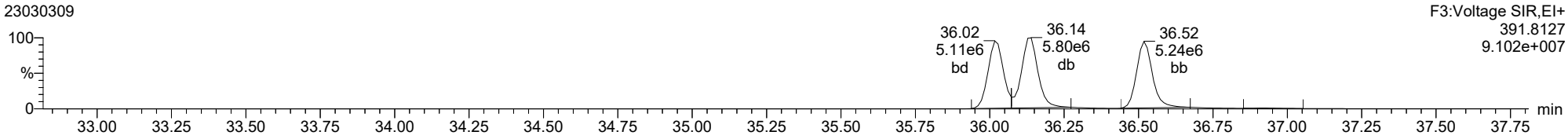

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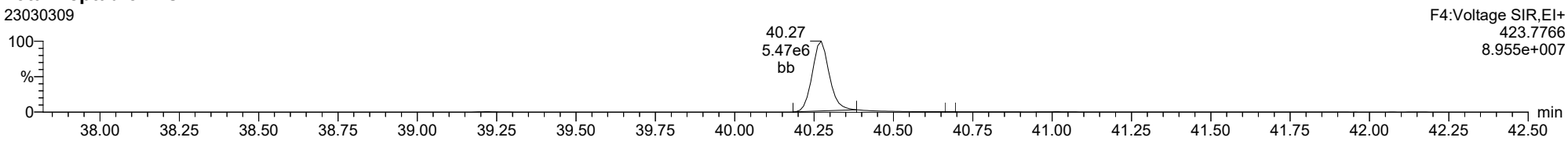

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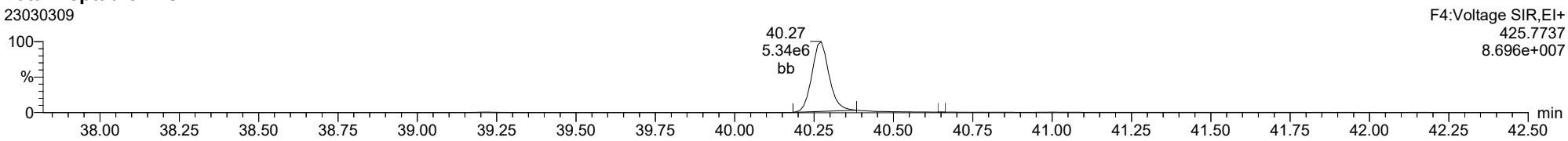

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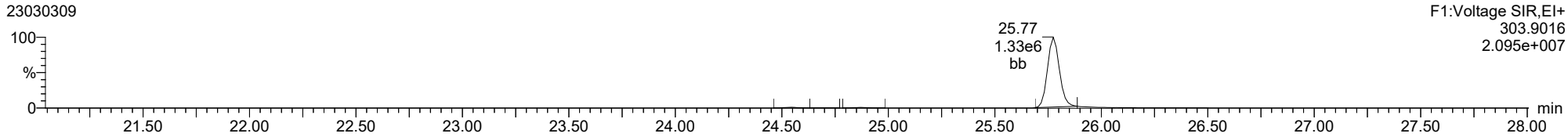
Total-tetrafurans



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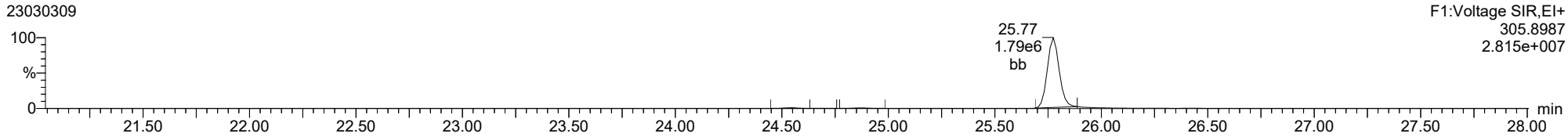

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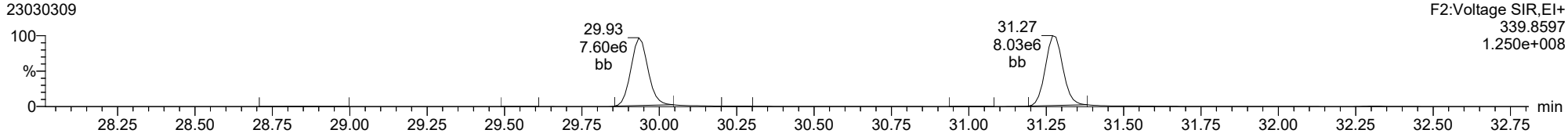

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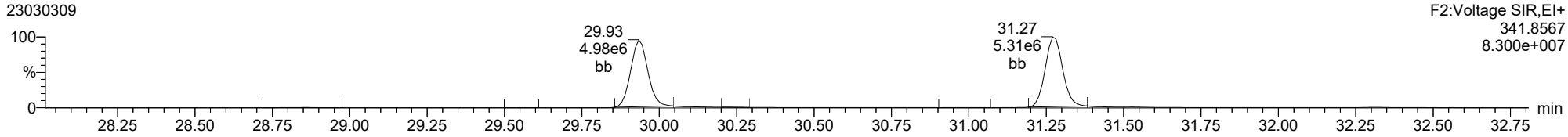

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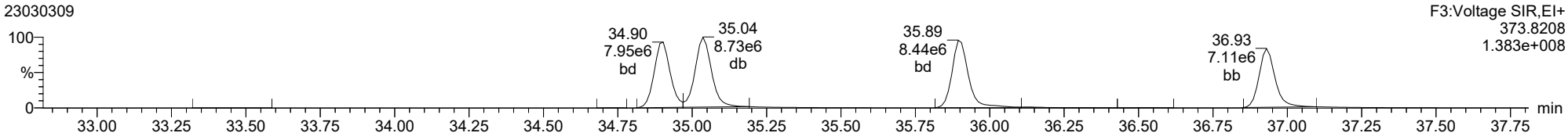
Total-hexafurans



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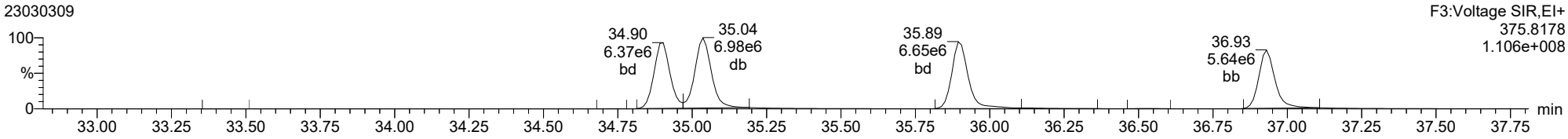

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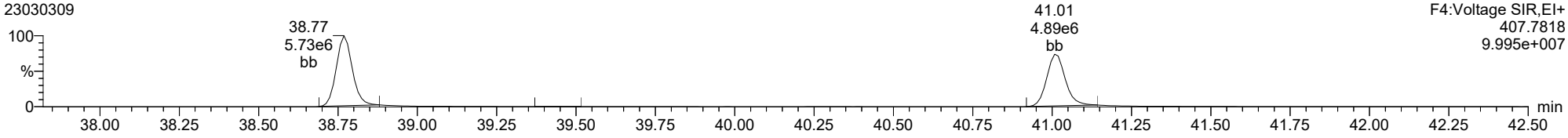

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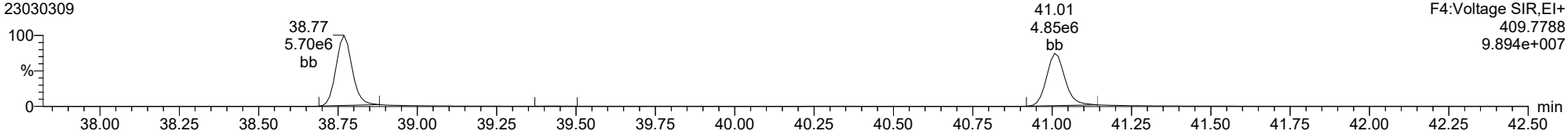

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Last Altered: Monday, March 06, 2023 11:49:27 Pacific Standard Time
Printed: Monday, March 06, 2023 14:47:19 Pacific Standard Time

Method: T:\Autospec\Methods\Dioxin230303.mdb 03 Mar 2023 14:58:50
Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 10:57:27

ID: ICVCW, Name: 23030310, Date: 03-Mar-2023, Time: 16:36:24, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	25.774	1.000	5.338e4	7.452e4	0.702	0.716	0.770	1163	2029	8.36e5	1.13e6	718.7	556.3	NO	bb	bb	9.838
12378-PeCDF	29.934	1.000	2.214e5	1.526e5	0.679	1.451	1.550	3022	2812	3.24e6	2.15e6	1073.8	764.7	NO	bb	bd	51.391
23478-PeCDF	31.271	1.000	2.350e5	1.508e5	0.786	1.559	1.550	3022	2812	3.42e6	2.23e6	1131.6	792.3	NO	bb	bb	48.980
123478-HxCDF	34.903	1.001	2.903e5	2.325e5	1.166	1.248	1.240	3142	2543	4.30e6	3.42e6	1370.1	1344.7	NO	bd	bd	48.245
234678-HxCDF	35.905	1.001	2.873e5	2.291e5	1.140	1.254	1.240	3142	2543	4.27e6	3.38e6	1358.7	1330.7	NO	bb	bb	50.224
123678-HxCDF	35.036	1.001	3.271e5	2.812e5	1.091	1.163	1.240	3142	2543	4.70e6	3.76e6	1497.0	1479.3	NO	db	db	47.992
123789-HxCDF	36.930	1.001	2.403e5	1.952e5	1.137	1.231	1.240	3142	2543	3.49e6	2.77e6	1110.7	1088.1	NO	bb	bb	49.077
1234678-HpCDF	38.769	1.000	2.051e5	2.017e5	1.003	1.017	1.050	2774	2508	3.29e6	3.29e6	1185.4	1309.8	NO	bb	bb	51.838
1234789-HpCDF	41.008	1.000	1.584e5	1.578e5	0.953	1.004	1.050	2774	2508	2.19e6	2.22e6	790.9	884.0	NO	bb	bb	48.461
OCDF	45.237	1.006	2.094e5	2.177e5	0.778	0.962	0.890	1876	1660	2.24e6	2.46e6	1194.3	1483.7	NO	bd	bb	103.506
2378-TCDD	26.424	1.001	6.583e4	8.225e4	1.149	0.800	0.770	1514	1206	9.92e5	1.24e6	654.9	1028.2	NO	bb	bb	9.815
12378-PeCDD	31.538	1.001	2.257e5	1.459e5	1.022	1.547	1.550	2000	2144	3.28e6	2.13e6	1638.2	994.7	NO	bb	bb	48.547
123478-HxCDD	36.016	1.000	2.316e5	1.815e5	0.996	1.276	1.240	2983	1710	3.62e6	3.01e6	1214.5	1762.3	NO	bd	bd	50.799
123678-HxCDD	36.139	1.001	2.694e5	2.159e5	1.001	1.248	1.240	2983	1710	3.76e6	3.05e6	1260.5	1785.9	NO	db	db	50.174
123789-HxCDD	36.518	1.011	2.330e5	1.844e5	0.907	1.263	1.240	2983	1710	3.29e6	2.69e6	1104.0	1571.7	NO	bd	bb	51.608
1234678-HpCDD	40.272	1.001	1.962e5	1.803e5	1.039	1.088	1.050	2922	2339	2.72e6	2.60e6	932.5	1113.0	NO	bd	bb	49.199
OCDD	44.999	1.000	2.234e5	2.618e5	0.920	0.853	0.890	1774	1393	2.65e6	3.06e6	1496.5	2199.2	NO	bb	bb	99.422
13C-2378-TCDF	25.760	1.007	7.988e5	1.054e6	1.620	0.758	0.770	2799	1492	1.21e7	1.60e7	4320.8	10737.9	NO	bb	bb	96.925
13C-12378-PeCDF	29.923	1.169	6.425e5	4.290e5	1.240	1.498	1.550	3398	4585	8.78e6	5.86e6	2583.4	1278.4	NO	bd	bd	73.193
13C-23478-PeCDF	31.259	1.222	6.035e5	3.982e5	1.118	1.515	1.550	3398	4585	8.73e6	5.79e6	2568.3	1261.6	NO	bb	bb	75.943
13C-123478-HxCDF	34.880	0.955	3.186e5	6.107e5	1.168	0.522	0.510	2913	2215	4.74e6	9.25e6	1627.4	4175.4	NO	bd	bd	92.972
13C-123678-HxCDF	35.014	0.959	3.885e5	7.735e5	1.386	0.502	0.510	2913	2215	5.29e6	1.03e7	1816.0	4636.7	NO	dd	db	97.958
13C-234678-HxCDF	35.883	0.983	3.009e5	6.013e5	1.129	0.500	0.510	2913	2215	4.56e6	8.94e6	1567.0	4037.6	NO	bb	bb	93.371
13C-123789-HxCDF	36.908	1.011	2.634e5	5.171e5	0.932	0.509	0.510	2913	2215	3.83e6	7.41e6	1313.2	3346.2	NO	bb	bb	97.906
13C-1234678-HpCDF	38.757	1.062	2.395e5	5.428e5	0.895	0.441	0.440	2666	4327	3.79e6	8.70e6	1422.6	2009.5	NO	bb	bb	102.148
13C-1234789-HpCDF	40.997	1.123	1.971e5	4.875e5	0.770	0.404	0.440	2666	4327	2.64e6	6.15e6	990.0	1422.1	NO	bb	bb	103.953
13C-1234-TCDD	25.591	0.000	5.239e5	6.562e5	1.000	0.798	0.770	2541	1448	8.13e6	1.01e7	3200.8	6994.1	NO	bb	bb	100.000
13C-2378-TCDD	26.396	1.031	5.859e5	7.277e5	1.152	0.805	0.770	2541	1448	8.48e6	1.06e7	3338.5	7327.1	NO	bb	bb	96.583
13C-12378-PeCDD	31.515	1.232	4.640e5	2.850e5	0.829	1.628	1.550	1690	813	6.82e6	4.16e6	4037.7	5122.1	NO	bb	bb	76.570
13C-123478-HxCDD	36.005	0.986	4.566e5	3.601e5	0.995	1.268	1.240	2230	1571	7.33e6	5.72e6	3288.3	3642.7	NO	bd	bd	95.938
13C-123678-HxCDD	36.117	0.989	5.277e5	4.388e5	1.157	1.203	1.240	2230	1571	7.53e6	5.98e6	3378.3	3806.0	NO	db	db	97.660
13C-1234678-HpCDD	40.250	1.102	3.788e5	3.578e5	0.840	1.059	1.050	1327	2781	5.06e6	4.73e6	3813.0	1700.4	NO	bd	bb	102.476
13C-OCDD	44.981	1.232	5.015e5	5.594e5	0.767	0.896	0.890	2228	1562	5.65e6	6.37e6	2536.4	4080.5	NO	bb	bb	161.563
13C-123789-HxCDD	36.507	0.000	4.814e5	3.742e5	1.000	1.287	1.240	2230	1571	7.02e6	5.48e6	3149.1	3490.5	NO	bb	bb	100.000
37CL-2378-TCDD	26.424	1.033	1.324e5		1.288			2249		1.92e6		853.0			bb		8.714

Dataset: T:\Autospec\Processed Data Batch\230303IHICV.qld
Last Altered: Monday, March 06, 2023 11:49:27 Pacific Standard Time
Printed: Monday, March 06, 2023 14:47:19 Pacific Standard Time

ID: ICVCW, Name: 23030310, Date: 03-Mar-2023, Time: 16:36:24, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF	22.271	0.865	6.666e4	8.755e4	0.802	0.761	0.770	1163	2029	1.09e6	1.45e6	933.7	713.4	NO	bb	bb	10.382
1289-TCDF	27.272	1.059	5.306e4	7.400e4	0.678	0.717	0.770	1163	2029	8.00e5	1.11e6	688.3	549.0	NO	bb	db	10.112
13468-PECDF	27.130	0.907	5.428e5	3.536e5	1.246	1.535	1.550	921	1306	8.56e6	5.56e6	9287.8	4254.6	NO	bb	bb	67.124
12389-PECDF	32.307	1.080	2.363e5	1.551e5	0.496	1.524	1.550	3022	2812	3.29e6	2.19e6	1088.1	777.6	NO	bb	bb	73.589
123468-HXCDF	33.231	0.953	3.102e5	2.472e5	1.169	1.255	1.240	3142	2543	4.60e6	3.67e6	1465.3	1443.2	NO	bb	bb	51.304
1368-TCDD	23.557	0.892	6.641e4	8.365e4	1.015	0.794	0.770	1514	1206	1.07e6	1.32e6	704.3	1092.4	NO	bb	bb	11.251
1289-TCDD	27.017	1.023	6.055e4	8.062e4	0.909	0.751	0.770	1514	1206	8.59e5	1.12e6	567.6	932.6	NO	bd	bd	11.826
12479-PECDD	28.819	0.914	4.776e5	3.067e5	2.301	1.557	1.550	2000	2144	4.46e6	2.89e6	2227.8	1348.6	NO	bb	bb	45.504
12389-PECDD	31.928	1.013	2.675e5	1.746e5	1.184	1.532	1.550	2000	2144	3.96e6	2.51e6	1980.6	1171.6	NO	bb	bb	49.870
124679-HXCDD	34.011	0.945	2.545e5	2.054e5	1.115	1.239	1.240	2983	1710	3.72e6	3.05e6	1245.7	1780.9	NO	bb	bb	50.484
1234679-HPCDD	39.225	0.975	2.082e5	2.022e5	1.137	1.029	1.050	2922	2339	3.21e6	3.09e6	1099.8	1322.5	NO	bb	bb	49.010
Total-tetrafurans			1.731e5		0.727			1163		2.72e6							30.332
Total-penta1			5.428e5					921		8.56e6							67.124
Total-pentafurans			7.375e5		0.654			3022		1.06e7							184.995
Total-hexafurans			1.455e6		1.141			3142		2.14e7							246.841
Total-heptafurans			3.635e5		0.978			2774		5.48e6							100.299
Total-Furans			3.482e6		0.922			1163		5.10e7							733.097
Total-tetradioxins			3.292e5		1.024			1514		4.53e6							56.345
Total-pentadioxins			9.708e5		1.502			2000		1.17e7							143.922
Total-hexadioxins			9.885e5		1.005			2983		1.44e7							203.065
Total-heptadioxins			4.044e5		1.088			2922		5.94e6							98.208
Total-Dioxins			2.916e6		1.130			1514		3.92e7							600.962
Total-TEQ			6.398e6					1514		9.02e7							1334.059
FUNCTION1 PFK			0.000e0					539943		0.00e0							
FUNCTION2 PFK			2.253e6					228820		1.84e6							0.000
FUNCTION3 PFK			3.977e4					386595		8.75e5							0.000
FUNCTION4 PFK			7.296e4					280107		2.70e6							
FUNCTION5 PFK			1.323e3					209307		1.46e5							
FUNCTION1 HXCD...			6.633e2					708		9.34e3							0.000
FUNCTION1 HPCD...																	
FUNCTION2 HPCD...			5.152e2					1165		9.44e3							0.000
FUNCTION3 OCDPE			5.246e2					459		6.83e3							0.000
FUNCTION4 NCDPE			4.889e2					641		6.04e3							0.000
FUNCTION5 DCDPE			0.000e0					644		0.00e0							

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Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 10:57:27

ID: ICVCW, Name: 23030310, Date: 03-Mar-2023, Time: 16:36:24, Conditions: AUTOSPEC01, User: pk

TF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.27	5.306e4	7.400e4	0.678	0.72	0.77	688.3	YES	NO	bb	db	10.112
2	2378-TCDF	25.77	5.338e4	7.452e4	0.702	0.72	0.77	718.7	YES	NO	bb	bb	9.838
3	1368-TCDF	22.27	6.666e4	8.755e4	0.802	0.76	0.77	933.7	YES	NO	bb	bb	10.382

PP

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	13468-PECDF	27.13	5.428e5	3.536e5	1.246	1.54	1.55	9287.8	YES	NO	bb	bb	67.124

PF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12389-PECDF	32.31	2.363e5	1.551e5	0.496	1.52	1.55	1088.1	YES	NO	bb	bb	73.589
2	23478-PeCDF	31.27	2.350e5	1.508e5	0.786	1.56	1.55	1131.6	YES	NO	bb	bb	48.980
3	12378-PeCDF	29.93	2.214e5	1.526e5	0.679	1.45	1.55	1073.8	YES	NO	bb	bd	51.391
4	Total-pentafurans	28.79	4.479e4	3.002e4	0.654	1.49	1.55	225.2	YES	NO	bb	bb	11.035

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123478-HxCDF	34.90	2.903e5	2.325e5	1.166	1.25	1.24	1370.1	YES	NO	bd	bd	48.245
2	123468-HXCDF	33.23	3.102e5	2.472e5	1.169	1.26	1.24	1465.3	YES	NO	bb	bb	51.304
3	123789-HxCDF	36.93	2.403e5	1.952e5	1.137	1.23	1.24	1110.7	YES	NO	bb	bb	49.077
4	234678-HxCDF	35.91	2.873e5	2.291e5	1.140	1.25	1.24	1358.7	YES	NO	bb	bb	50.224
5	123678-HxCDF	35.04	3.271e5	2.812e5	1.091	1.16	1.24	1497.0	YES	NO	db	db	47.992

HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDF	38.77	2.051e5	2.017e5	1.003	1.02	1.05	1185.4	YES	NO	bb	bb	51.838
2	1234789-HpCDF	41.01	1.584e5	1.578e5	0.953	1.00	1.05	790.9	YES	NO	bb	bb	48.461

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Furans,TF,PP,PF,HF,HPF,OF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.27	5.306e4	7.400e4	0.678	0.72	0.77	688.3	YES	NO	bb	db	10.112
2	2378-TCDF	25.77	5.338e4	7.452e4	0.702	0.72	0.77	718.7	YES	NO	bb	bb	9.838
3	1368-TCDF	22.27	6.666e4	8.755e4	0.802	0.76	0.77	933.7	YES	NO	bb	bb	10.382
4	12389-PECDF	32.31	2.363e5	1.551e5	0.496	1.52	1.55	1088.1	YES	NO	bb	bb	73.589
5	23478-PeCDF	31.27	2.350e5	1.508e5	0.786	1.56	1.55	1131.6	YES	NO	bb	bb	48.980
6	12378-PeCDF	29.93	2.214e5	1.526e5	0.679	1.45	1.55	1073.8	YES	NO	bb	bd	51.391
7	Total-pentafurans	28.79	4.479e4	3.002e4	0.654	1.49	1.55	225.2	YES	NO	bb	bb	11.035
8	123478-HxCDF	34.90	2.903e5	2.325e5	1.166	1.25	1.24	1370.1	YES	NO	bd	bd	48.245
9	123468-HXCDF	33.23	3.102e5	2.472e5	1.169	1.26	1.24	1465.3	YES	NO	bb	bb	51.304
10	123789-HxCDF	36.93	2.403e5	1.952e5	1.137	1.23	1.24	1110.7	YES	NO	bb	bb	49.077
11	234678-HxCDF	35.91	2.873e5	2.291e5	1.140	1.25	1.24	1358.7	YES	NO	bb	bb	50.224
12	123678-HxCDF	35.04	3.271e5	2.812e5	1.091	1.16	1.24	1497.0	YES	NO	db	db	47.992
13	1234678-HpCDF	38.77	2.051e5	2.017e5	1.003	1.02	1.05	1185.4	YES	NO	bb	bb	51.838
14	1234789-HpCDF	41.01	1.584e5	1.578e5	0.953	1.00	1.05	790.9	YES	NO	bb	bb	48.461
15	OCDF	45.24	2.094e5	2.177e5	0.778	0.96	0.89	1194.3	YES	NO	bd	bb	103.506
16	13468-PECDF	27.13	5.428e5	3.536e5	1.246	1.54	1.55	9287.8	YES	NO	bb	bb	67.124

TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetradioxins	25.60	3.327e4	3.983e4	1.024	0.84	0.77	333.8	YES	NO	bd	bb	5.433
2	Total-tetradioxins	25.04	8.004e2	1.202e3	1.024	0.67	0.77	7.4	YES	NO	bb	db	0.149
3	Total-tetradioxins	24.74	2.704e3	4.097e3	1.024	0.66	0.77	17.7	YES	NO	bb	bd	0.506
4	1368-TCDD	23.56	6.641e4	8.365e4	1.015	0.79	0.77	704.3	YES	NO	bb	bb	11.251
5	1289-TCDD	27.02	6.055e4	8.062e4	0.909	0.75	0.77	567.6	YES	NO	bd	bd	11.826
6	Total-tetradioxins	26.76	1.054e2	1.391e2	1.024	0.76	0.77	2.1	NO	NO	bb	bb	0.018
7	2378-TCDD	26.42	6.583e4	8.225e4	1.149	0.80	0.77	654.9	YES	NO	bb	bb	9.815
8	Total-tetradioxins	26.10	9.949e4	1.339e5	1.024	0.74	0.77	703.4	YES	NO	bb	bb	17.347

PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12389-PECDD	31.93	2.675e5	1.746e5	1.184	1.53	1.55	1980.6	YES	NO	bb	bb	49.870
2	12378-PeCDD	31.54	2.257e5	1.459e5	1.022	1.55	1.55	1638.2	YES	NO	bb	bb	48.547
3	12479-PECDD	28.82	4.776e5	3.067e5	2.301	1.56	1.55	2227.8	YES	NO	bb	bb	45.504

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HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	124679-HXCDD	34.01	2.545e5	2.054e5	1.115	1.24	1.24	1245.7	YES	NO	bb	bb	50.484
2	123789-HxCDD	36.52	2.330e5	1.844e5	0.907	1.26	1.24	1104.0	YES	NO	bd	bb	51.608
3	123678-HxCDD	36.14	2.694e5	2.159e5	1.001	1.25	1.24	1260.5	YES	NO	db	db	50.174
4	123478-HxCDD	36.02	2.316e5	1.815e5	0.996	1.28	1.24	1214.5	YES	NO	bd	bd	50.799

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234679-HPCDD	39.23	2.082e5	2.022e5	1.137	1.03	1.05	1099.8	YES	NO	bb	bb	49.010
2	1234678-HpCDD	40.27	1.962e5	1.803e5	1.039	1.09	1.05	932.5	YES	NO	bd	bb	49.199

Dioxins,TD,PD,HD,HPD,OD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetradioxins	25.60	3.327e4	3.983e4	1.024	0.84	0.77	333.8	YES	NO	bd	bb	5.433
2	Total-tetradioxins	25.04	8.004e2	1.202e3	1.024	0.67	0.77	7.4	YES	NO	bb	db	0.149
3	Total-tetradioxins	24.74	2.704e3	4.097e3	1.024	0.66	0.77	17.7	YES	NO	bb	bd	0.506
4	1368-TCDD	23.56	6.641e4	8.365e4	1.015	0.79	0.77	704.3	YES	NO	bb	bb	11.251
5	1289-TCDD	27.02	6.055e4	8.062e4	0.909	0.75	0.77	567.6	YES	NO	bd	bd	11.826
6	Total-tetradioxins	26.76	1.054e2	1.391e2	1.024	0.76	0.77	2.1	NO	NO	bb	bb	0.018
7	2378-TCDD	26.42	6.583e4	8.225e4	1.149	0.80	0.77	654.9	YES	NO	bb	bb	9.815
8	Total-tetradioxins	26.10	9.949e4	1.339e5	1.024	0.74	0.77	703.4	YES	NO	bb	bb	17.347
9	12389-PECDD	31.93	2.675e5	1.746e5	1.184	1.53	1.55	1980.6	YES	NO	bb	bb	49.870
10	12378-PeCDD	31.54	2.257e5	1.459e5	1.022	1.55	1.55	1638.2	YES	NO	bb	bb	48.547
11	12479-PECDD	28.82	4.776e5	3.067e5	2.301	1.56	1.55	2227.8	YES	NO	bb	bb	45.504
12	124679-HXCDD	34.01	2.545e5	2.054e5	1.115	1.24	1.24	1245.7	YES	NO	bb	bb	50.484
13	123789-HxCDD	36.52	2.330e5	1.844e5	0.907	1.26	1.24	1104.0	YES	NO	bd	bb	51.608
14	123678-HxCDD	36.14	2.694e5	2.159e5	1.001	1.25	1.24	1260.5	YES	NO	db	db	50.174
15	123478-HxCDD	36.02	2.316e5	1.815e5	0.996	1.28	1.24	1214.5	YES	NO	bd	bd	50.799
16	1234679-HPCDD	39.23	2.082e5	2.022e5	1.137	1.03	1.05	1099.8	YES	NO	bb	bb	49.010
17	1234678-HpCDD	40.27	1.962e5	1.803e5	1.039	1.09	1.05	932.5	YES	NO	bd	bb	49.199
18	OCDD	45.00	2.234e5	2.618e5	0.920	0.85	0.89	1496.5	YES	NO	bb	bb	99.422

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TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.27	5.306e4	7.400e4	0.678	0.72	0.77	688.3	YES	NO	bb	db	10.112
2	2378-TCDF	25.77	5.338e4	7.452e4	0.702	0.72	0.77	718.7	YES	NO	bb	bb	9.838
3	1368-TCDF	22.27	6.666e4	8.755e4	0.802	0.76	0.77	933.7	YES	NO	bb	bb	10.382
4	12389-PECDF	32.31	2.363e5	1.551e5	0.496	1.52	1.55	1088.1	YES	NO	bb	bb	73.589
5	23478-PeCDF	31.27	2.350e5	1.508e5	0.786	1.56	1.55	1131.6	YES	NO	bb	bb	48.980
6	12378-PeCDF	29.93	2.214e5	1.526e5	0.679	1.45	1.55	1073.8	YES	NO	bb	bd	51.391
7	Total-pentafurans	28.79	4.479e4	3.002e4	0.654	1.49	1.55	225.2	YES	NO	bb	bb	11.035
8	123478-HxCDF	34.90	2.903e5	2.325e5	1.166	1.25	1.24	1370.1	YES	NO	bd	bd	48.245
9	123468-HXCDF	33.23	3.102e5	2.472e5	1.169	1.26	1.24	1465.3	YES	NO	bb	bb	51.304
10	123789-HxCDF	36.93	2.403e5	1.952e5	1.137	1.23	1.24	1110.7	YES	NO	bb	bb	49.077
11	234678-HxCDF	35.91	2.873e5	2.291e5	1.140	1.25	1.24	1358.7	YES	NO	bb	bb	50.224
12	123678-HxCDF	35.04	3.271e5	2.812e5	1.091	1.16	1.24	1497.0	YES	NO	db	db	47.992
13	1234678-HpCDF	38.77	2.051e5	2.017e5	1.003	1.02	1.05	1185.4	YES	NO	bb	bb	51.838
14	1234789-HpCDF	41.01	1.584e5	1.578e5	0.953	1.00	1.05	790.9	YES	NO	bb	bb	48.461
15	OCDF	45.24	2.094e5	2.177e5	0.778	0.96	0.89	1194.3	YES	NO	bd	bb	103.506
16	13468-PECDF	27.13	5.428e5	3.536e5	1.246	1.54	1.55	9287.8	YES	NO	bb	bb	67.124
17	Total-tetradioxins	25.60	3.327e4	3.983e4	1.024	0.84	0.77	333.8	YES	NO	bd	bb	5.433
18	Total-tetradioxins	25.04	8.004e2	1.202e3	1.024	0.67	0.77	7.4	YES	NO	bb	db	0.149
19	Total-tetradioxins	24.74	2.704e3	4.097e3	1.024	0.66	0.77	17.7	YES	NO	bb	bd	0.506
20	1368-TCDD	23.56	6.641e4	8.365e4	1.015	0.79	0.77	704.3	YES	NO	bb	bb	11.251
21	1289-TCDD	27.02	6.055e4	8.062e4	0.909	0.75	0.77	567.6	YES	NO	bd	bd	11.826
22	Total-tetradioxins	26.76	1.054e2	1.391e2	1.024	0.76	0.77	2.1	NO	NO	bb	bb	0.018
23	2378-TCDD	26.42	6.583e4	8.225e4	1.149	0.80	0.77	654.9	YES	NO	bb	bb	9.815
24	Total-tetradioxins	26.10	9.949e4	1.339e5	1.024	0.74	0.77	703.4	YES	NO	bb	bb	17.347
25	12389-PECDD	31.93	2.675e5	1.746e5	1.184	1.53	1.55	1980.6	YES	NO	bb	bb	49.870
26	12378-PeCDD	31.54	2.257e5	1.459e5	1.022	1.55	1.55	1638.2	YES	NO	bb	bb	48.547
27	12479-PECDD	28.82	4.776e5	3.067e5	2.301	1.56	1.55	2227.8	YES	NO	bb	bb	45.504
28	124679-HXCDD	34.01	2.545e5	2.054e5	1.115	1.24	1.24	1245.7	YES	NO	bb	bb	50.484
29	123789-HxCDD	36.52	2.330e5	1.844e5	0.907	1.26	1.24	1104.0	YES	NO	bd	bb	51.608
30	123678-HxCDD	36.14	2.694e5	2.159e5	1.001	1.25	1.24	1260.5	YES	NO	db	db	50.174
31	123478-HxCDD	36.02	2.316e5	1.815e5	0.996	1.28	1.24	1214.5	YES	NO	bd	bd	50.799
32	1234679-HPCDD	39.23	2.082e5	2.022e5	1.137	1.03	1.05	1099.8	YES	NO	bb	bb	49.010
33	1234678-HpCDD	40.27	1.962e5	1.803e5	1.039	1.09	1.05	932.5	YES	NO	bd	bb	49.199
34	OCDD	45.00	2.234e5	2.618e5	0.920	0.85	0.89	1496.5	YES	NO	bb	bb	99.422

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PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	28.14	2.253e6					8.0	YES		bb		0.000

PFK3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	34.08	3.977e4					2.3	NO		bb		0.000

PFK4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	41.32	4.162e3					0.8	NO		bb		
2	FUNCTION4 PFK	40.68	1.340e4					1.2	NO		bb		
3	FUNCTION4 PFK	40.50	1.024e4					1.3	NO		bb		
4	FUNCTION4 PFK	40.07	1.056e4					1.2	NO		bb		
5	FUNCTION4 PFK	39.50	1.007e4					1.4	NO		bb		
6	FUNCTION4 PFK	42.14	1.085e4					1.0	NO		bb		
7	FUNCTION4 PFK	42.10	6.400e3					1.1	NO		bb		
8	FUNCTION4 PFK	41.87	1.885e3					0.6	NO		bb		
9	FUNCTION4 PFK	41.61	5.389e3					0.9	NO		bb		

PFK5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	43.23	1.323e3					0.7	NO		bb		

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ETHERS1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	26.55	1.589e2					2.0	NO		db		0.000
2	FUNCTION1 HXCD...	26.42	1.755e2					3.2	YES		bd		0.000
3	FUNCTION1 HXCD...	25.59	9.854e1					1.9	NO		bb		0.000
4	FUNCTION1 HXCD...	23.87	7.096e1					1.9	NO		bb		0.000
5	FUNCTION1 HXCD...	23.56	8.003e1					2.4	NO		bb		0.000
6	FUNCTION1 HXCD...	22.40	7.940e1					1.8	NO		bb		0.000

ETHERS2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	30.33	1.101e2					1.7	NO		bb		0.000
2	FUNCTION2 HPCD...	28.89	7.875e1					1.7	NO		bb		0.000
3	FUNCTION2 HPCD...	31.17	3.263e2					4.7	YES		bb		0.000

ETHERS4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	36.51	1.586e2					5.0	YES		bb		0.000
2	FUNCTION3 OCDPE	36.13	1.909e2					4.9	YES		db		0.000
3	FUNCTION3 OCDPE	35.99	1.751e2					5.1	YES		bd		0.000

ETHERS5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	41.06	1.247e2					2.2	NO		db		0.000
2	FUNCTION4 NCDPE	40.94	7.187e1					1.7	NO		bd		0.000
3	FUNCTION4 NCDPE	40.37	7.003e1					1.7	NO		db		0.000
4	FUNCTION4 NCDPE	40.26	2.223e2					3.8	YES		bd		0.000

ETHERS6

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

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Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 10:57:27

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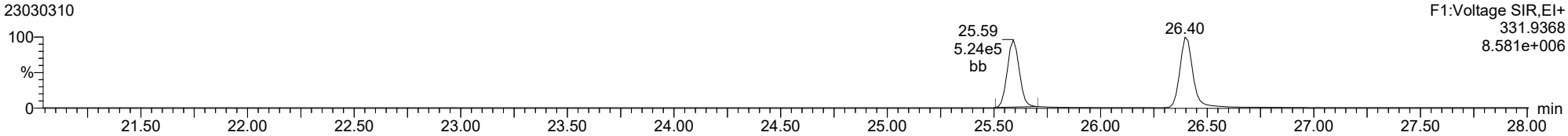
13C-1234-TCDD



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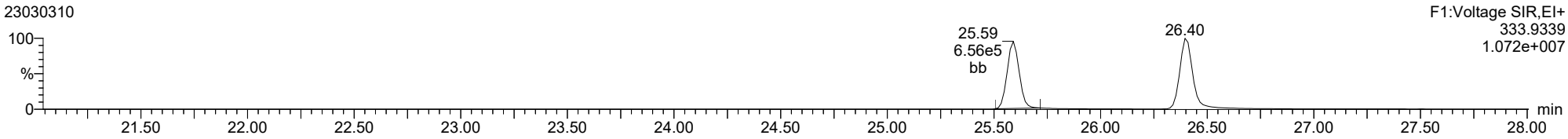

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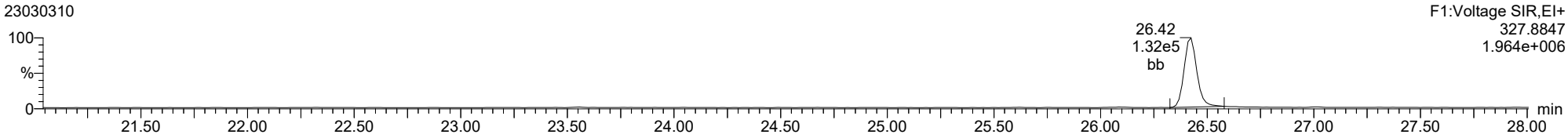
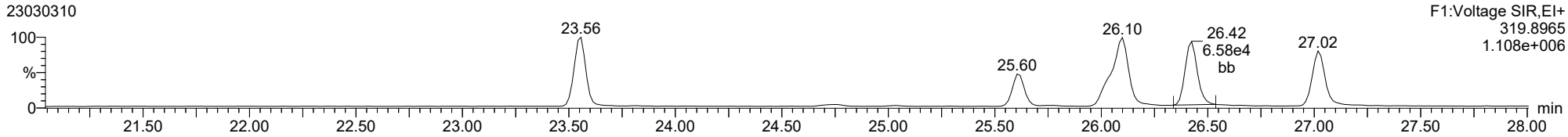


ID: ICVCW, Name: 23030310, Date: 03-Mar-2023, Time: 16:36:24, Conditions: AUTOSPEC01, User: pk

2378-TCDD



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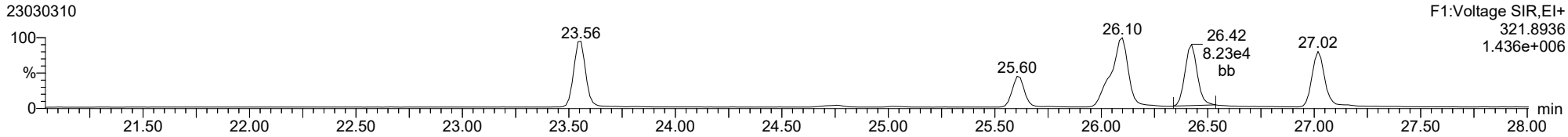
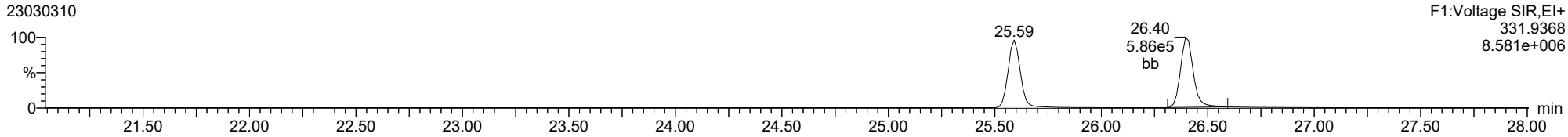


13C-2378-TCDD



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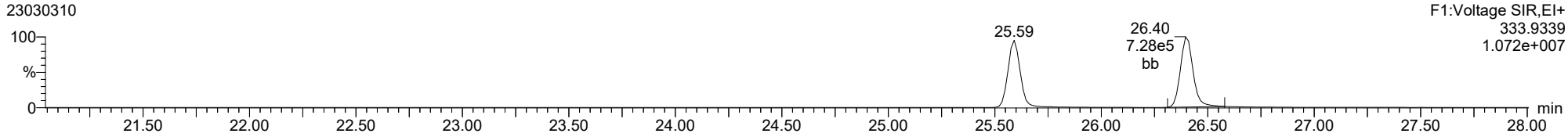

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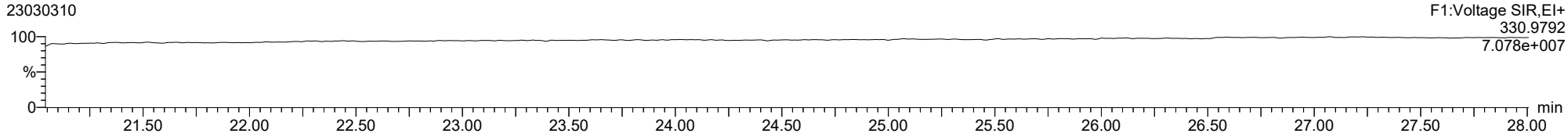

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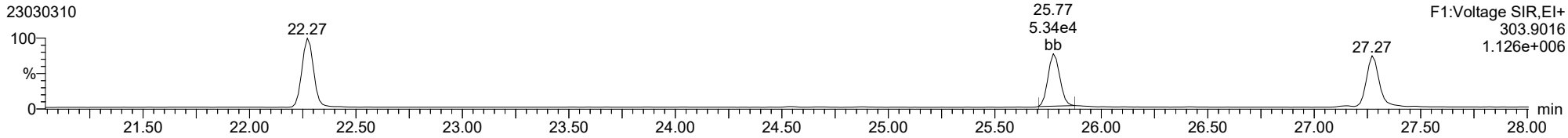

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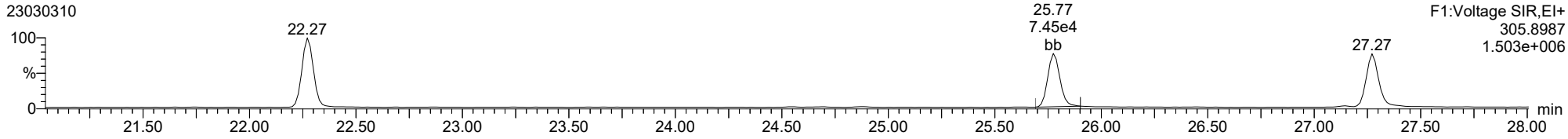

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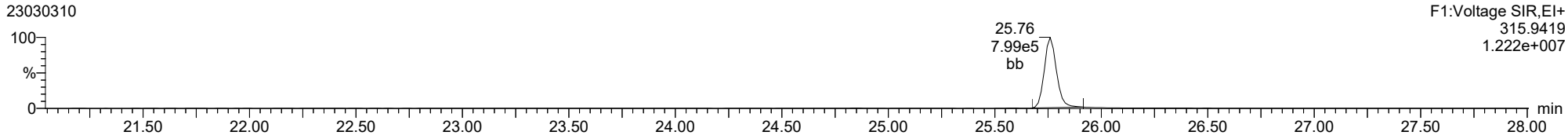

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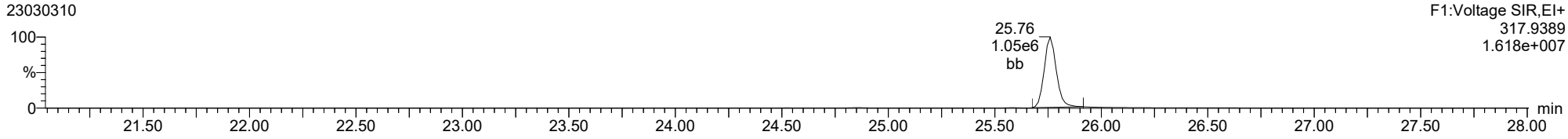

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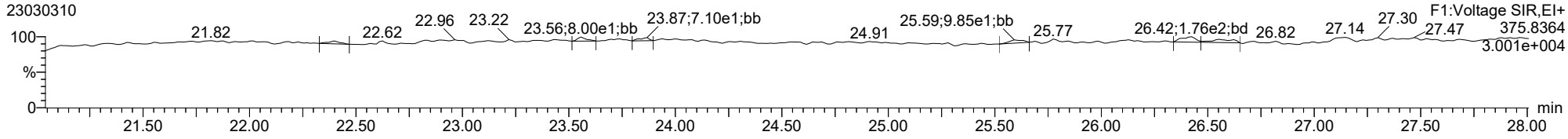

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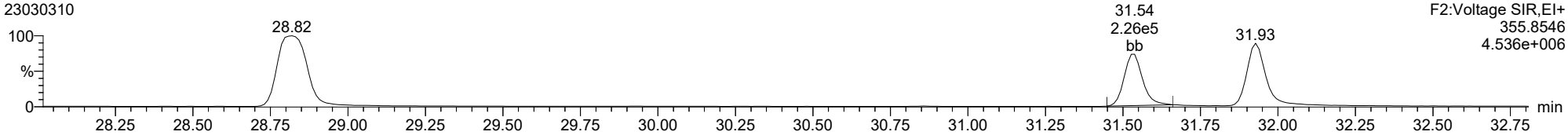

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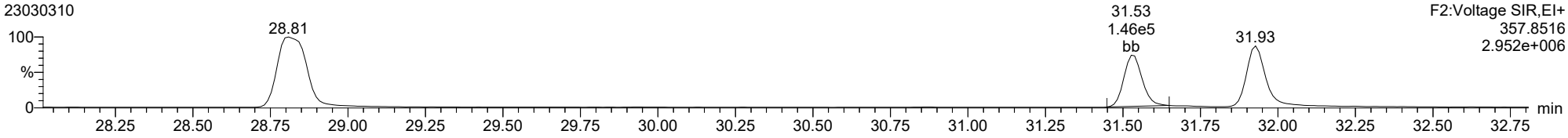

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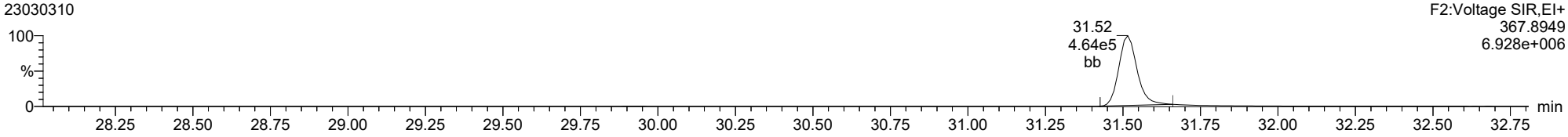

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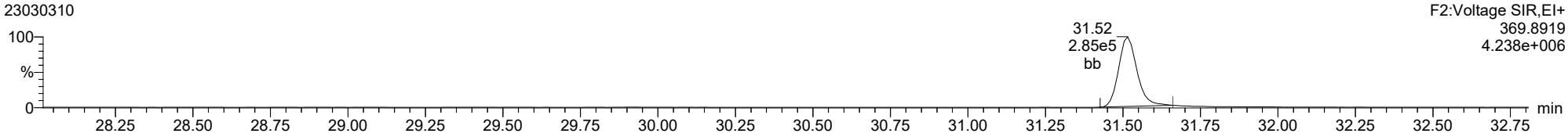
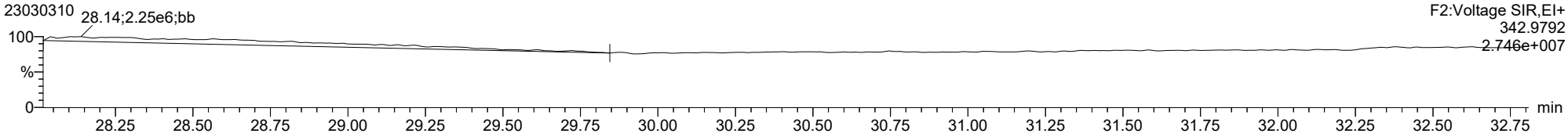


FUNCTION2 PFK



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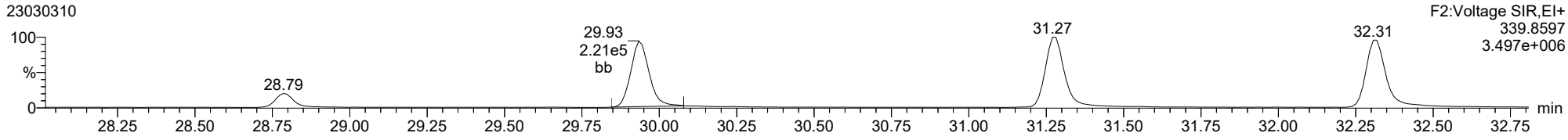

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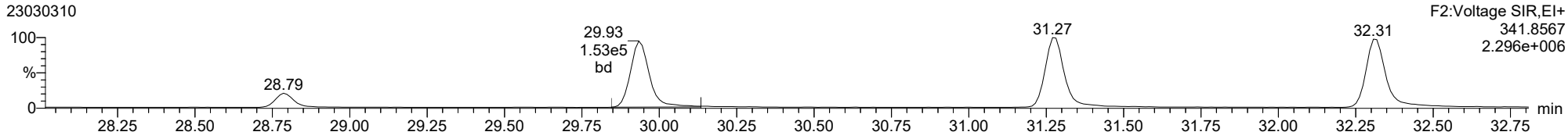

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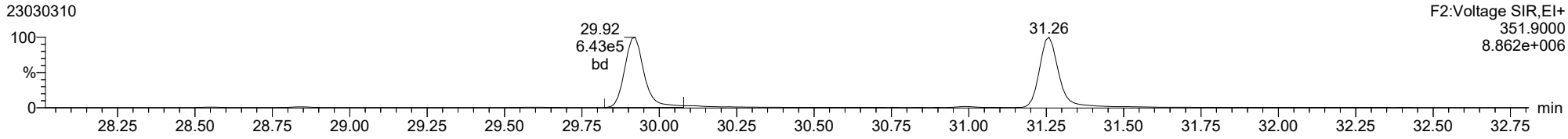

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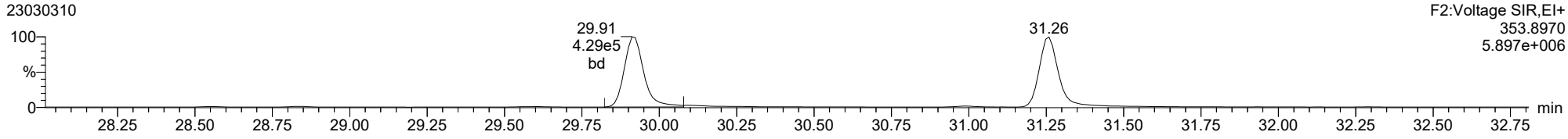
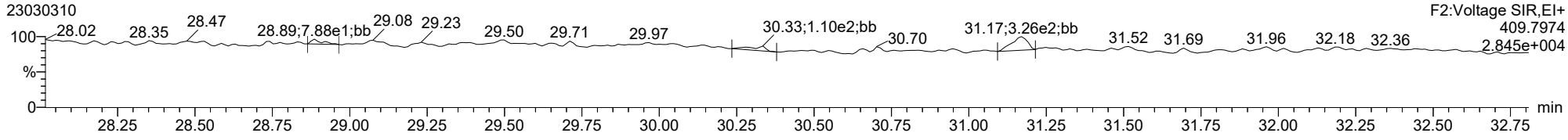


FUNCTION2 HPCDPE



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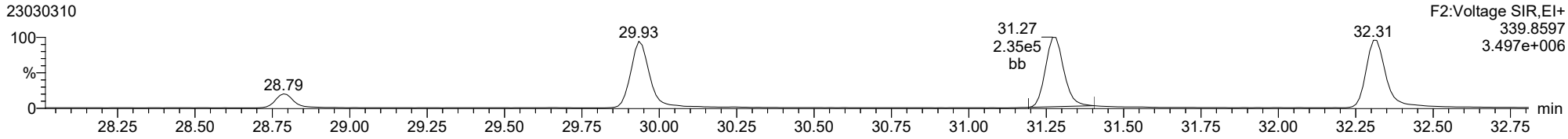
23478-PeCDF



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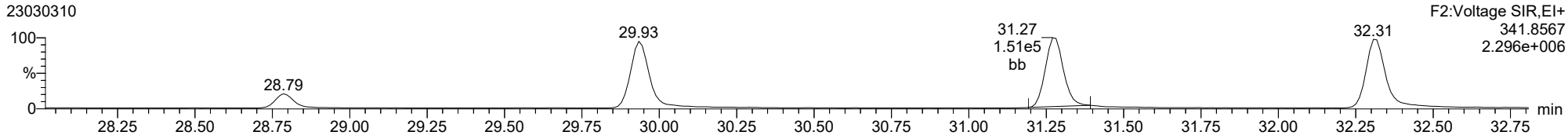

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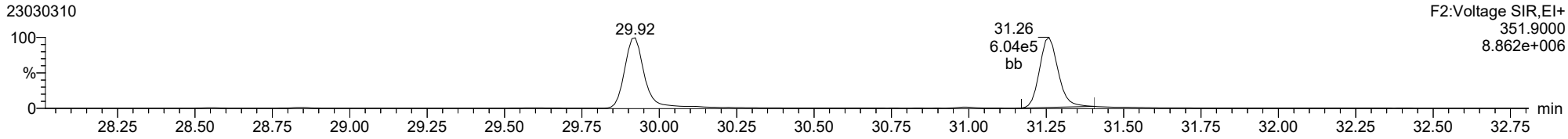

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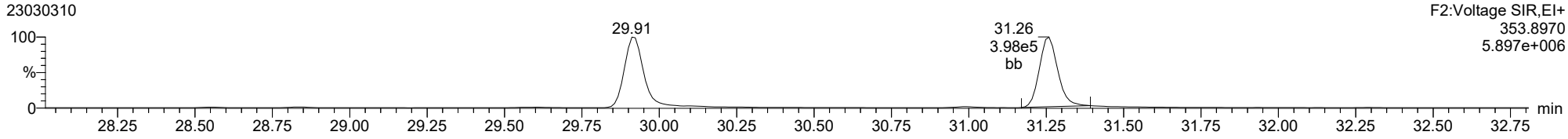

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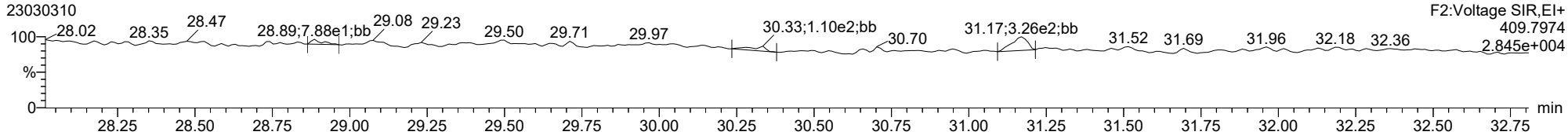

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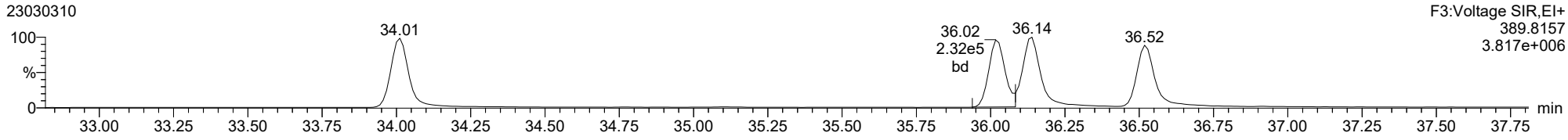

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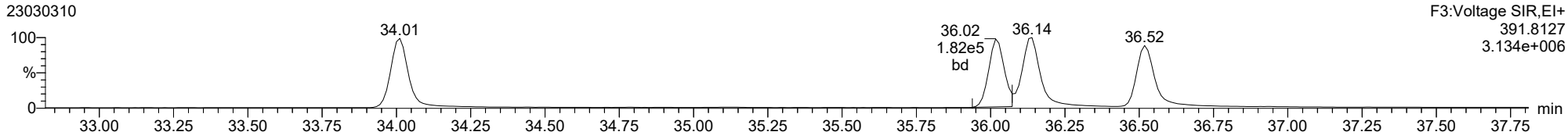

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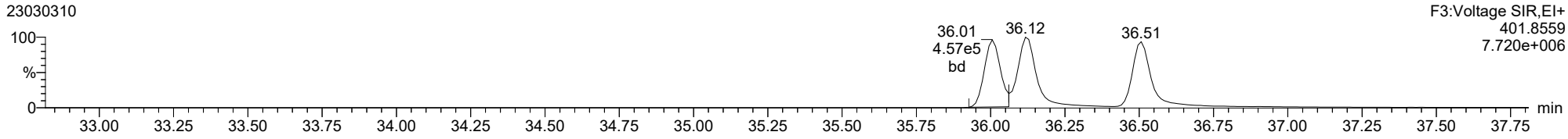

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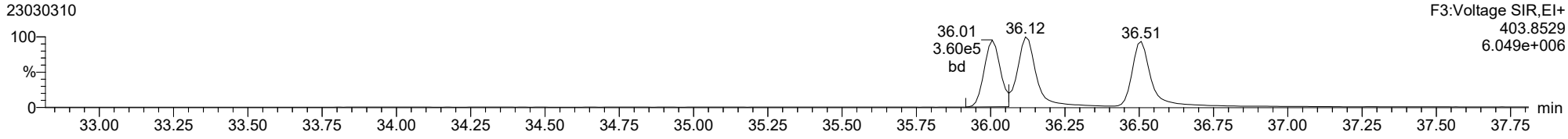

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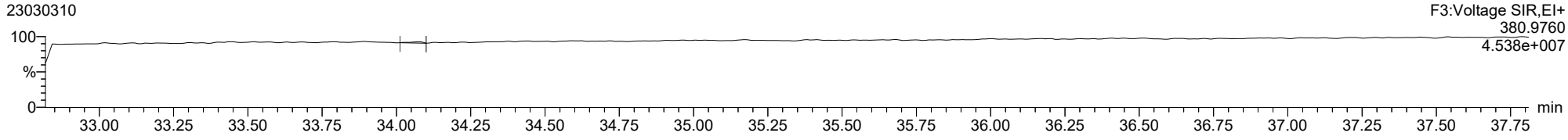

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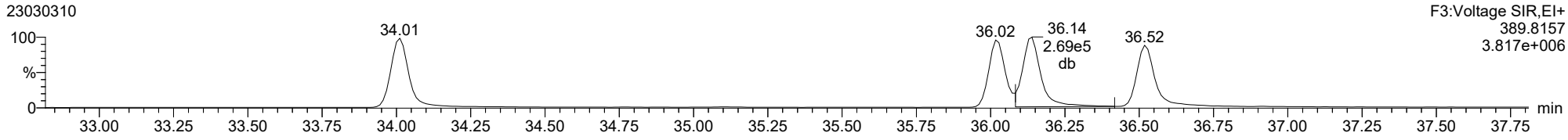

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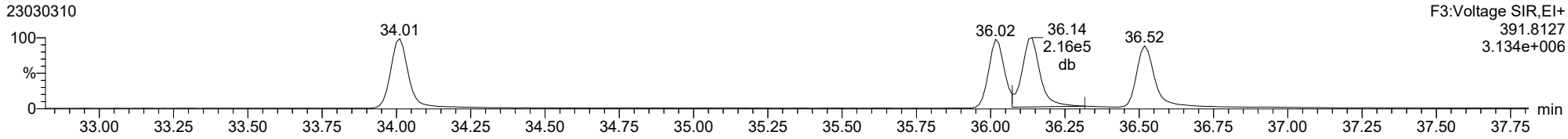

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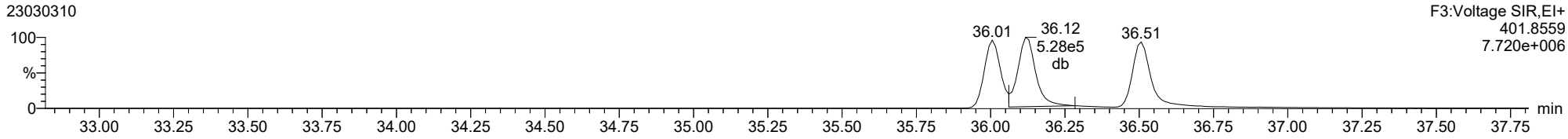

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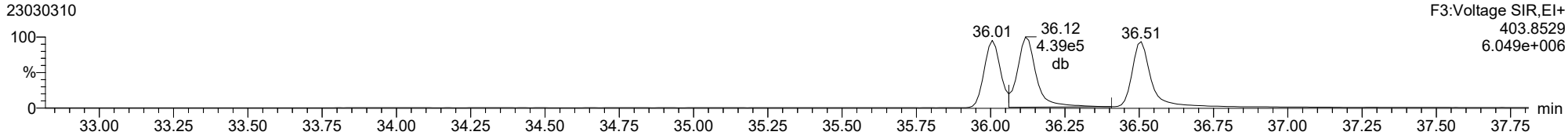

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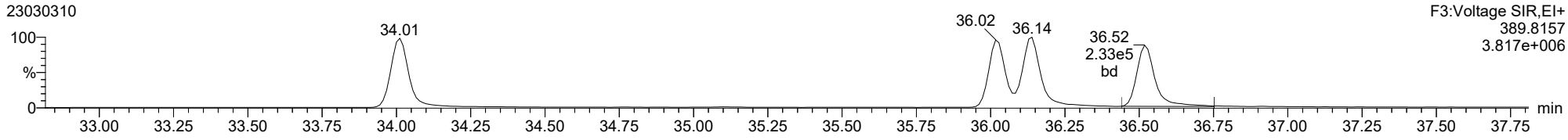

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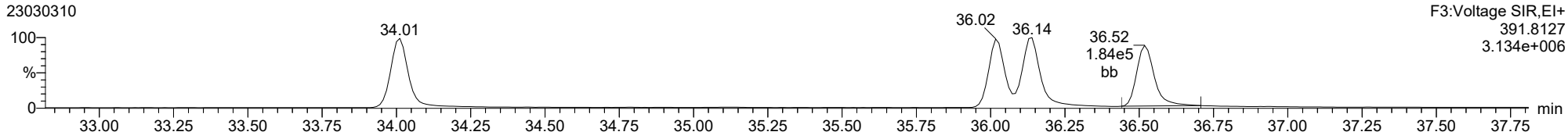

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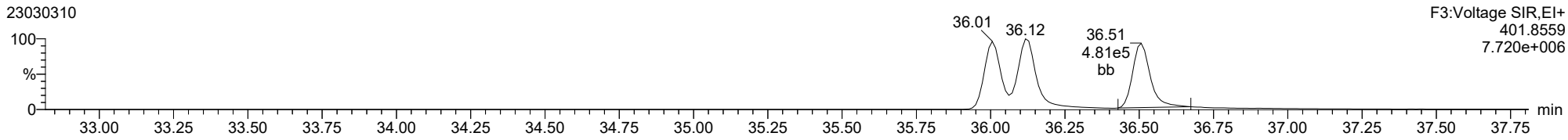

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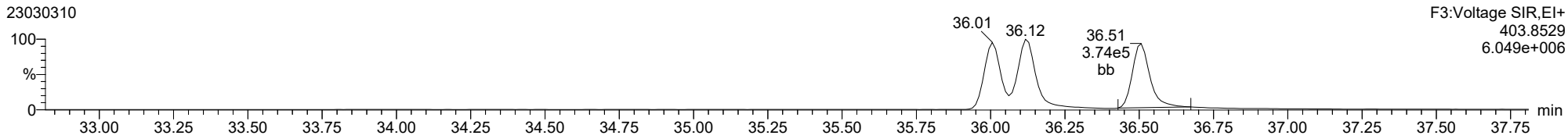

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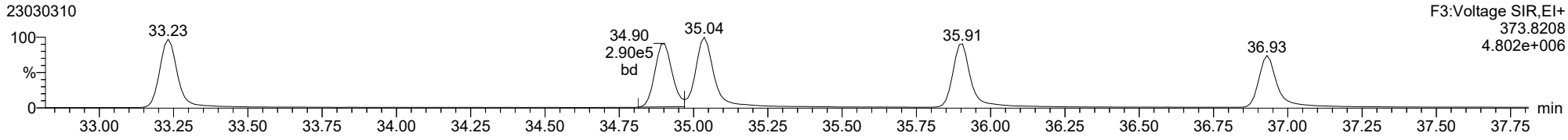

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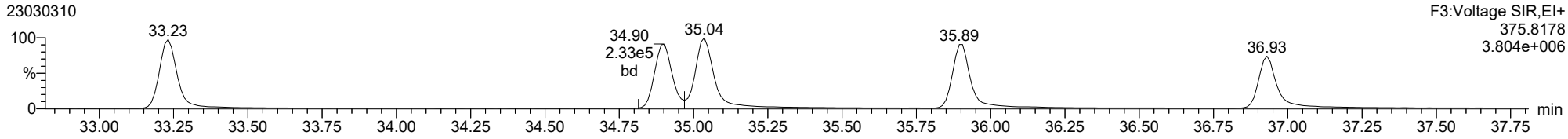

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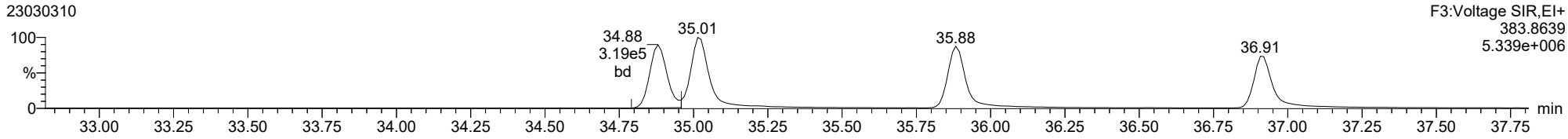

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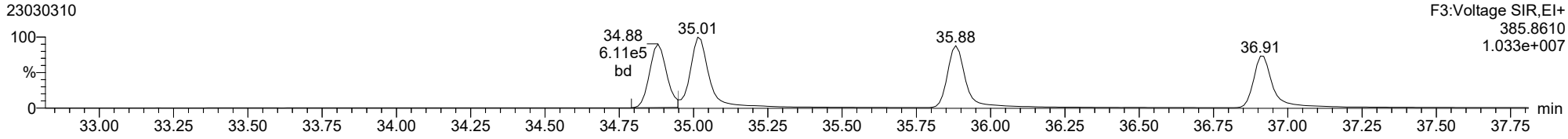
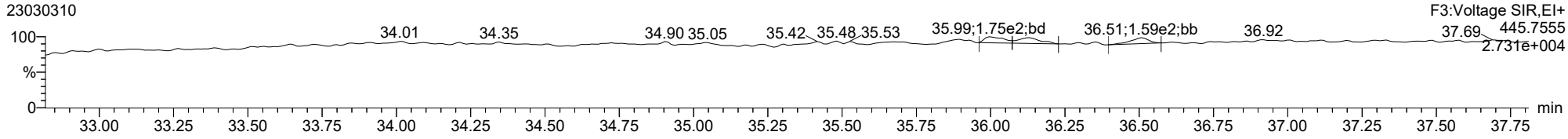


FUNCTION3 OCDPE



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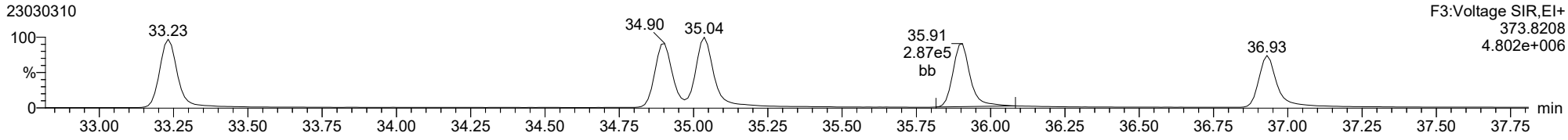
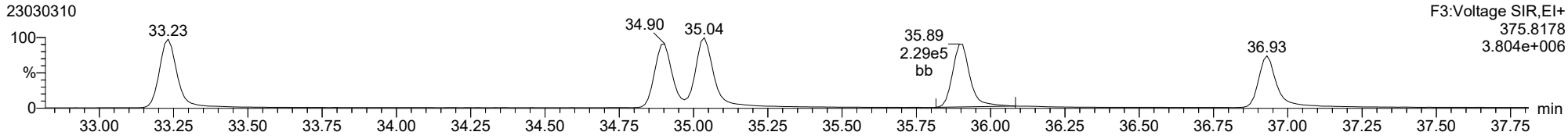
234678-HxCDF



234678-HxCDF



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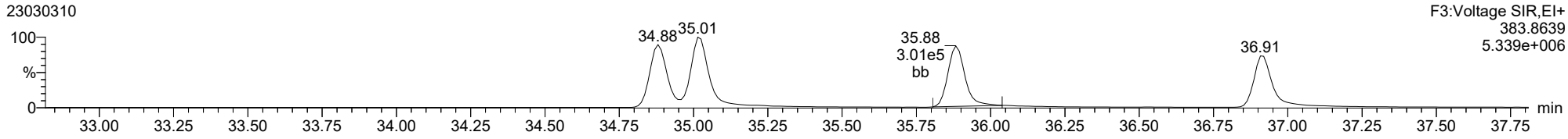

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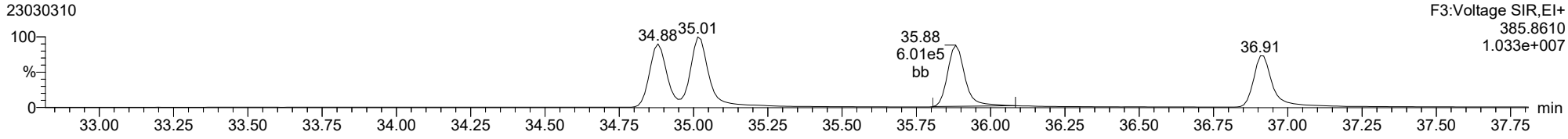
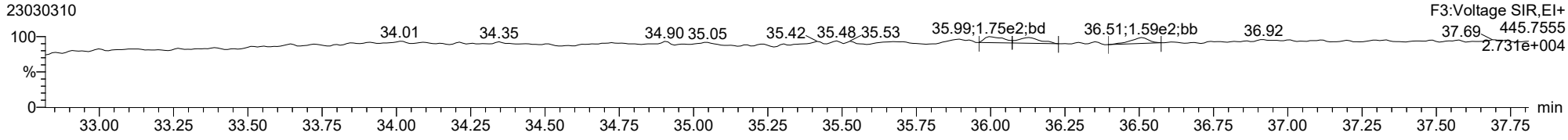


FUNCTION3 OCDPE



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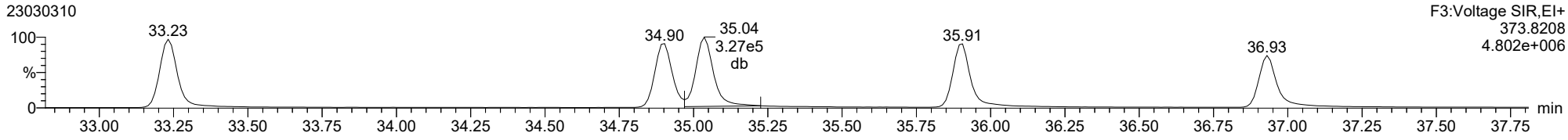
123678-HxCDF



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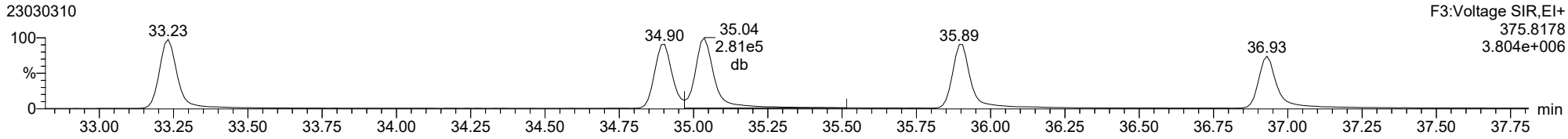

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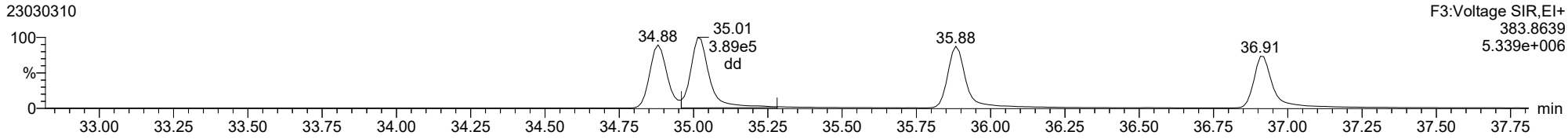

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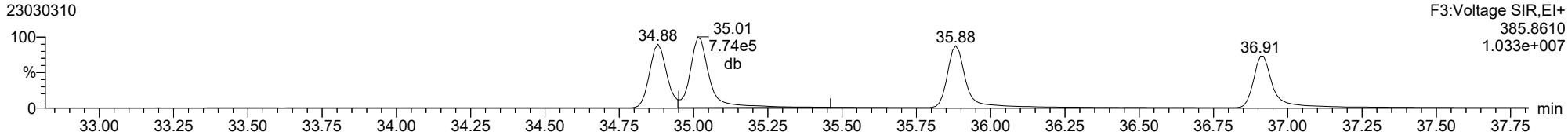

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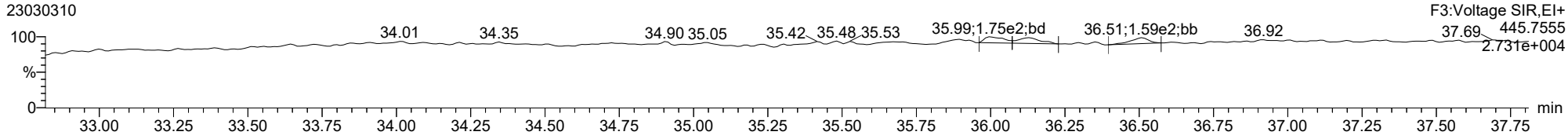

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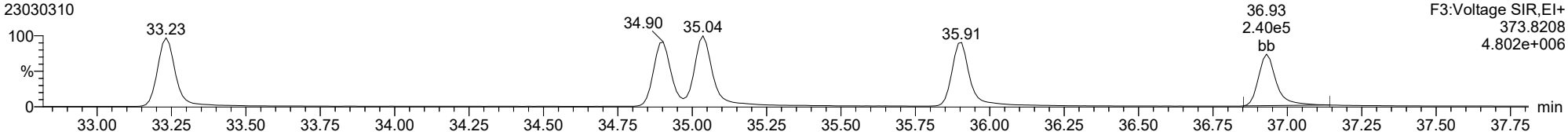

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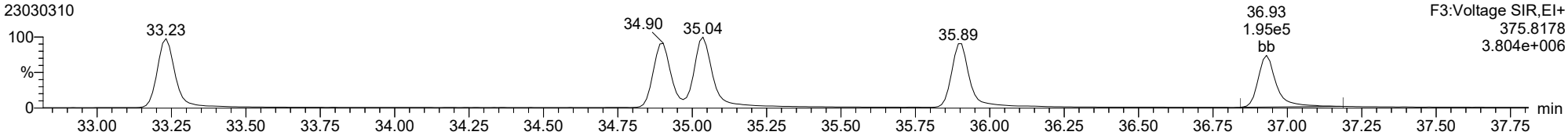

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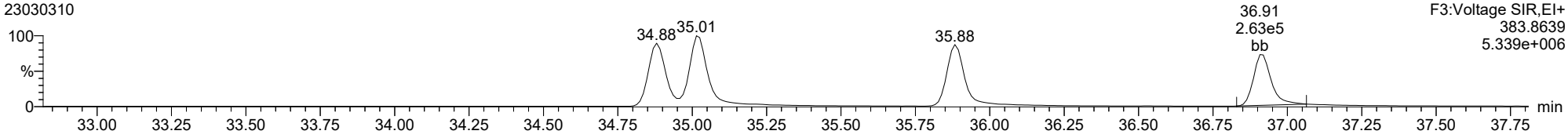

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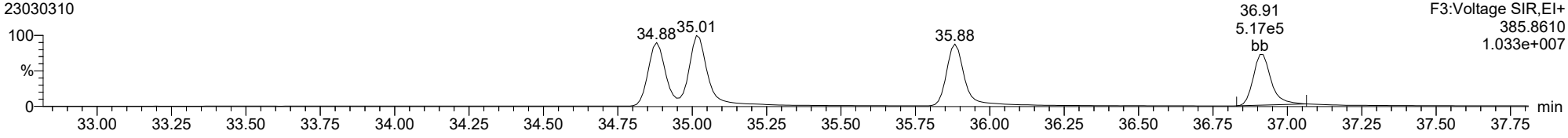

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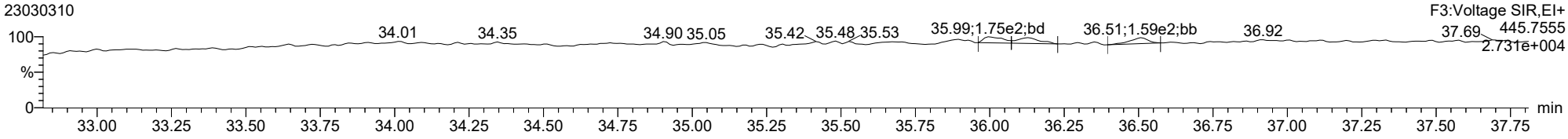

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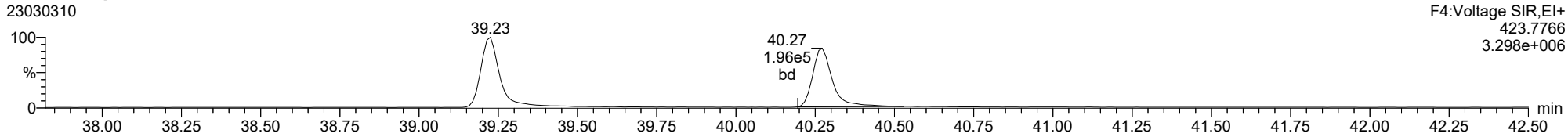

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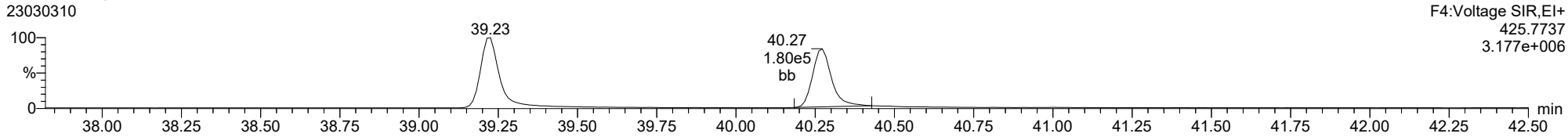

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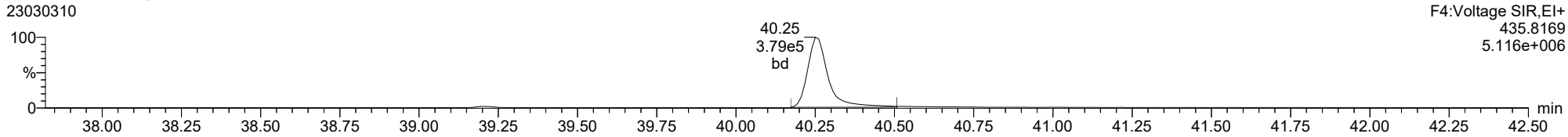

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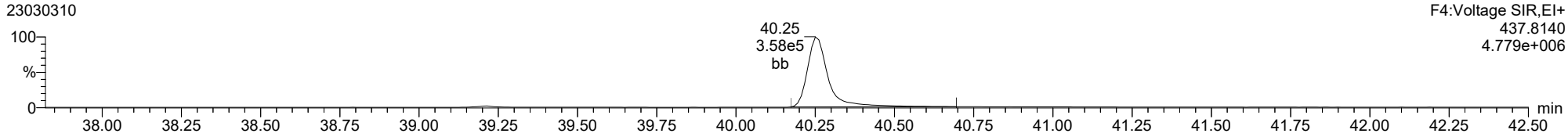

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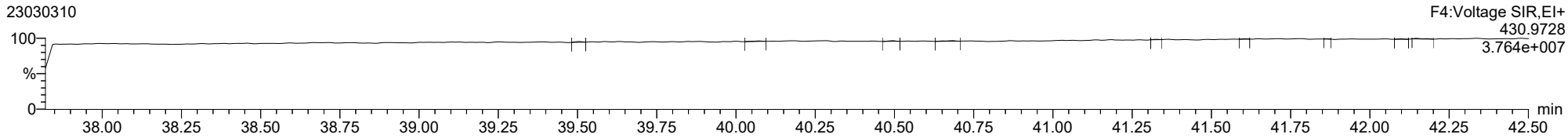

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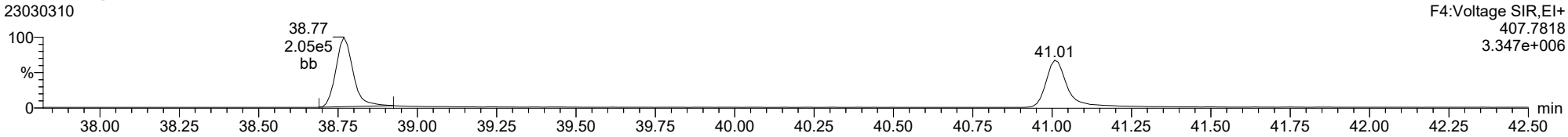

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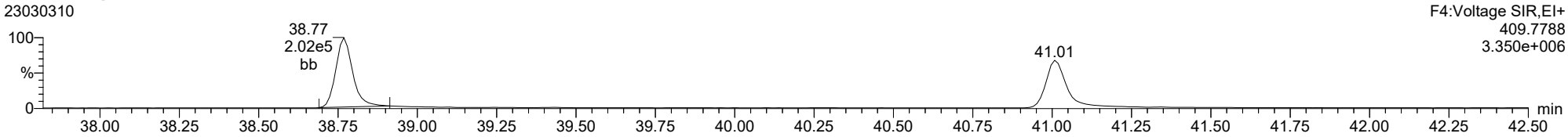

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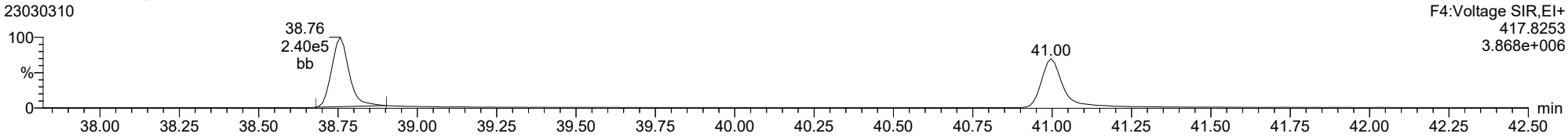

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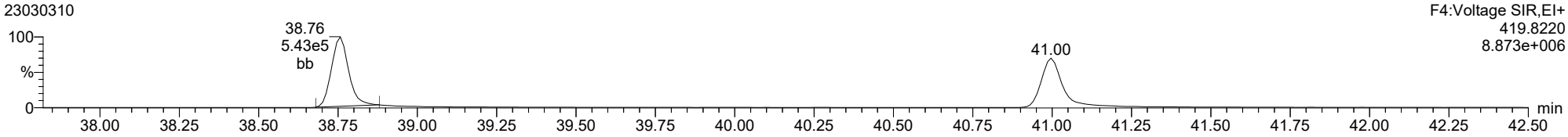

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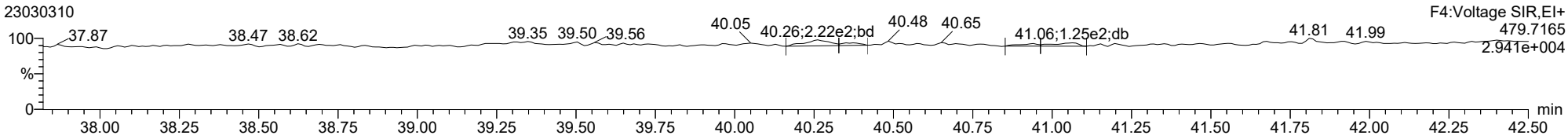

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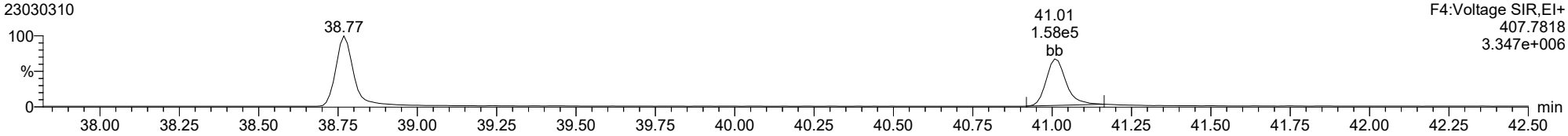

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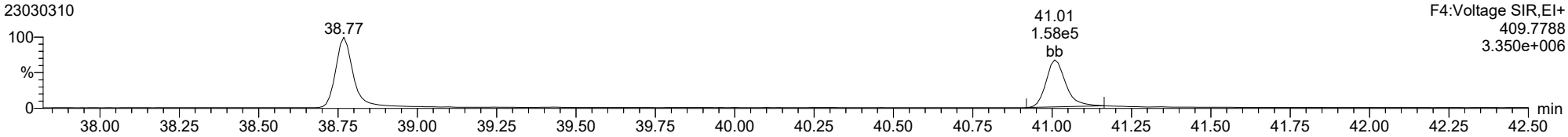

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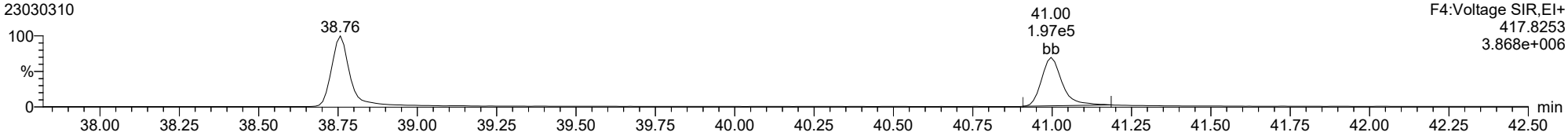

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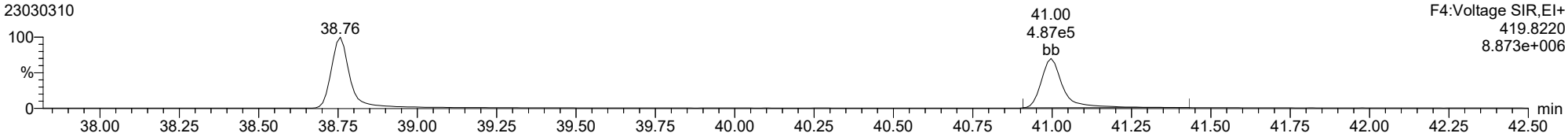

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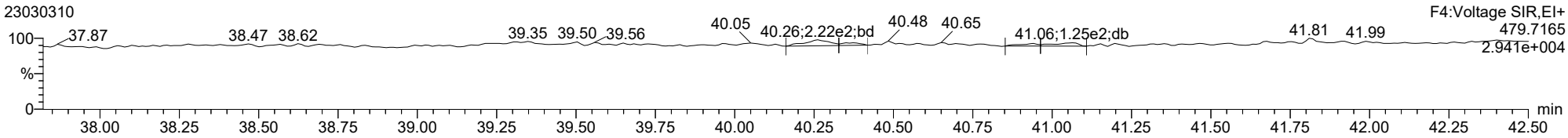

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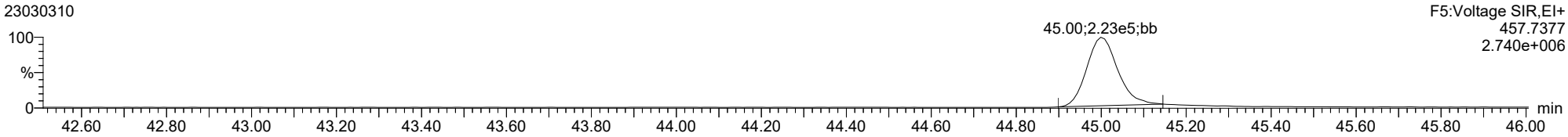

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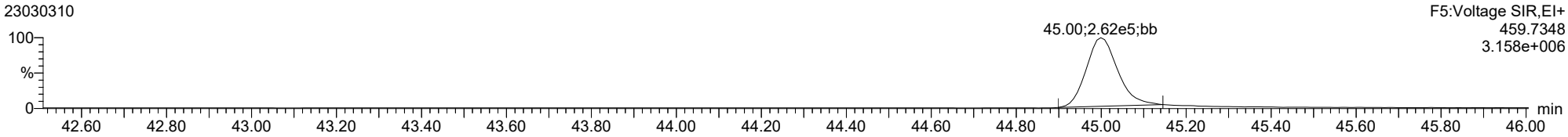

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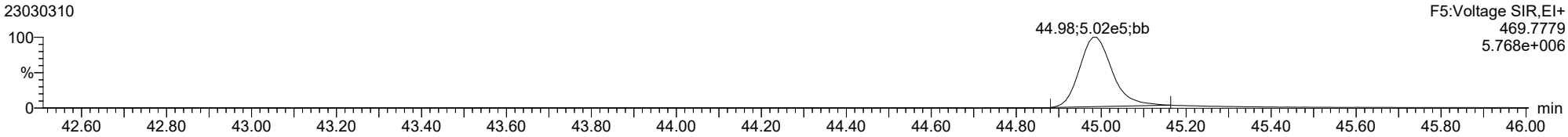

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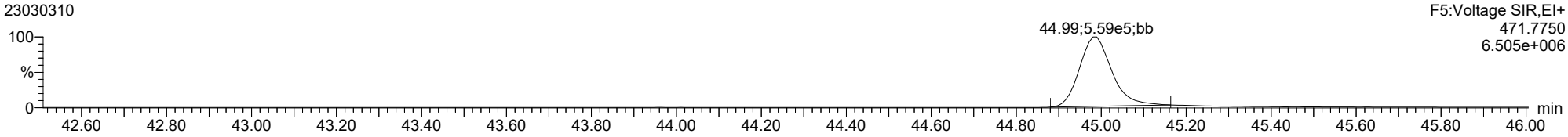

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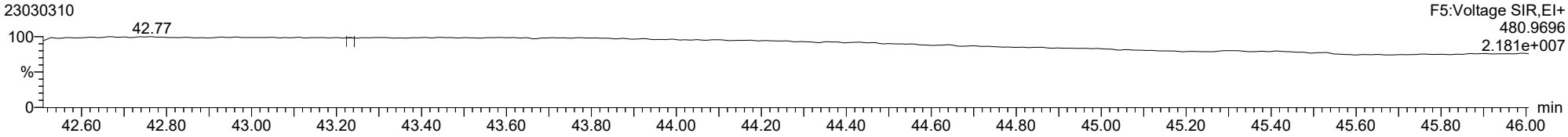

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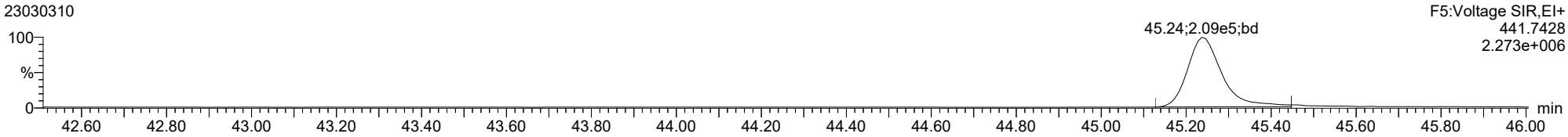

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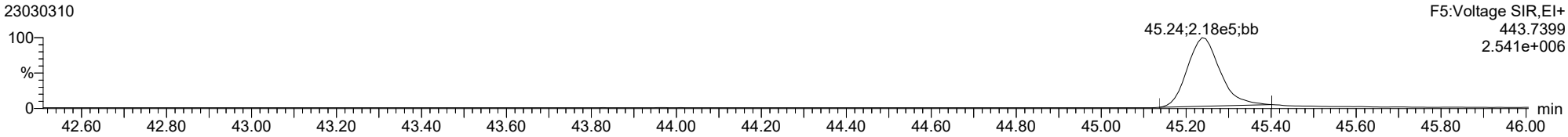

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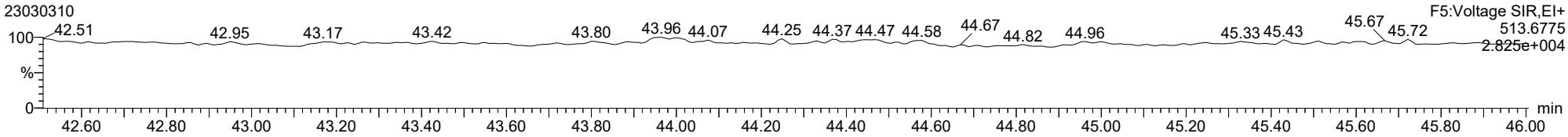

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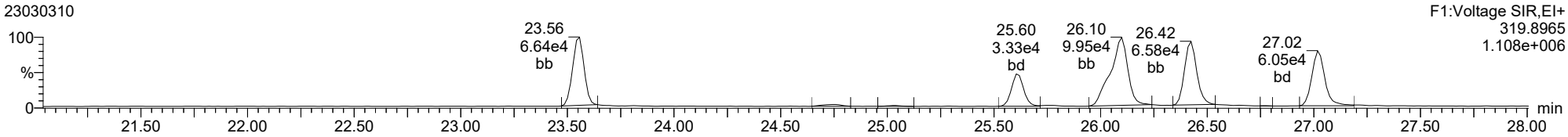
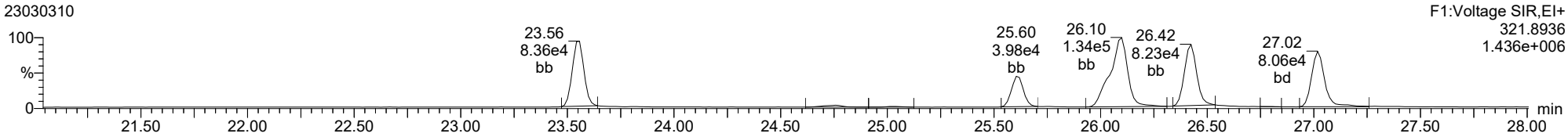


Total-tetradioxins



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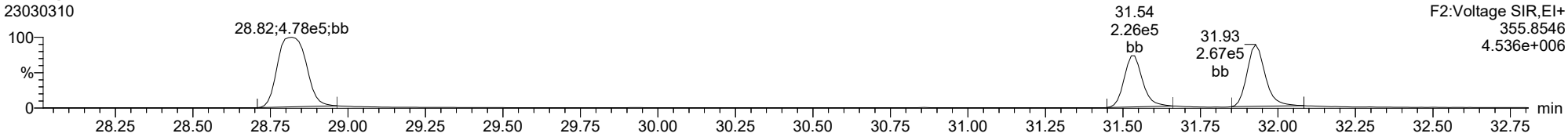

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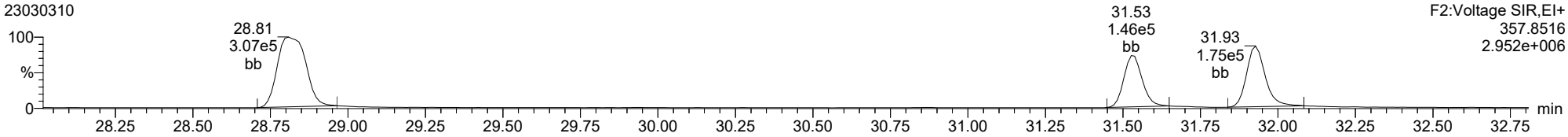

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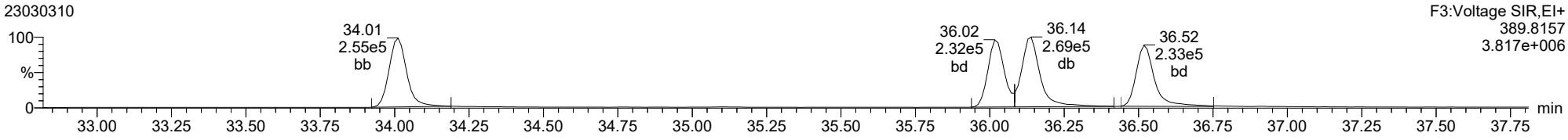

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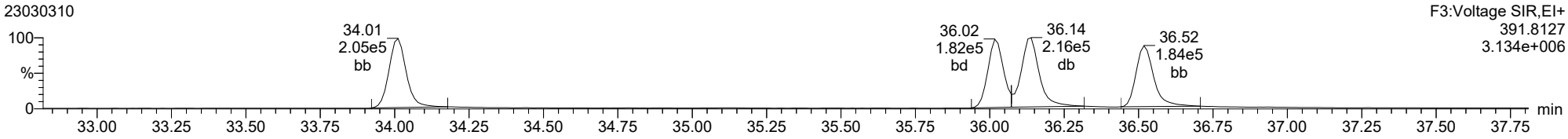

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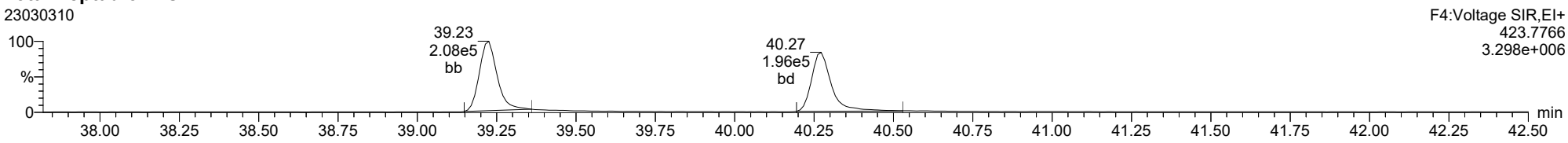

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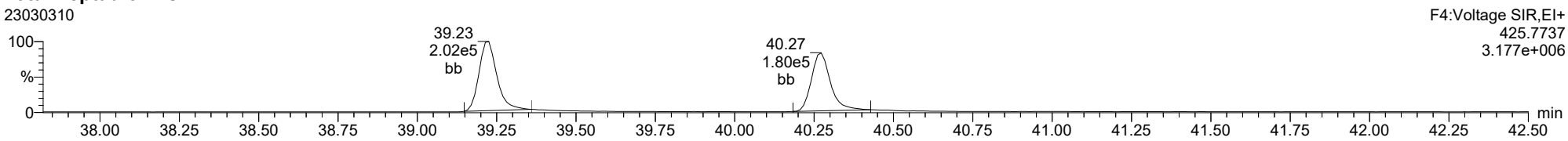

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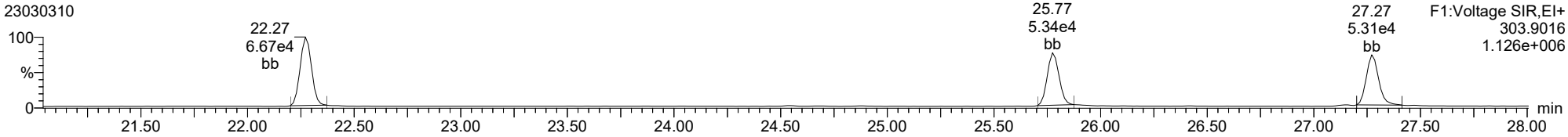
Total-tetrafurans



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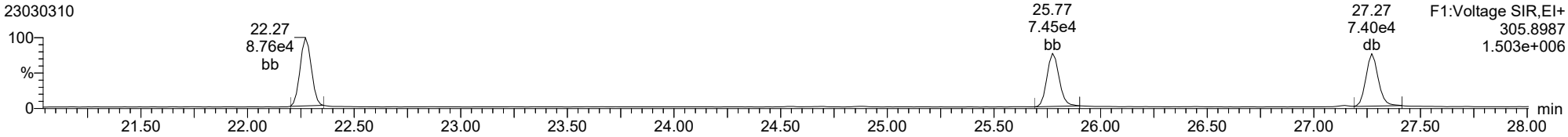

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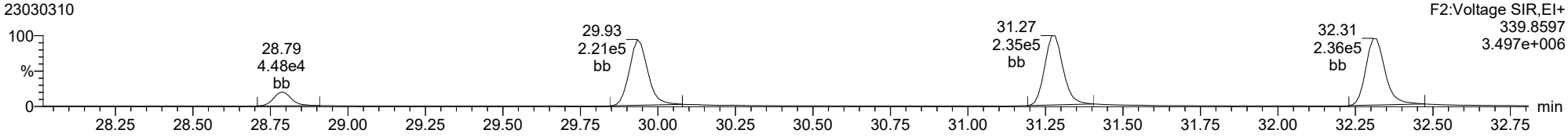

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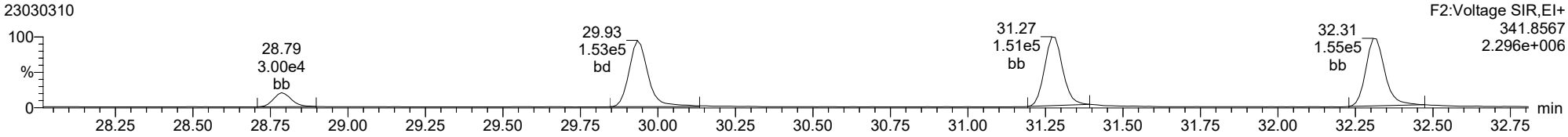

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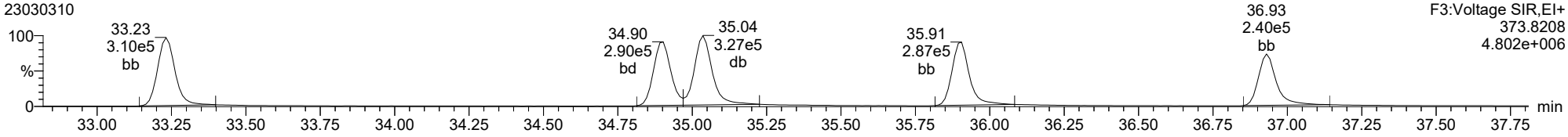

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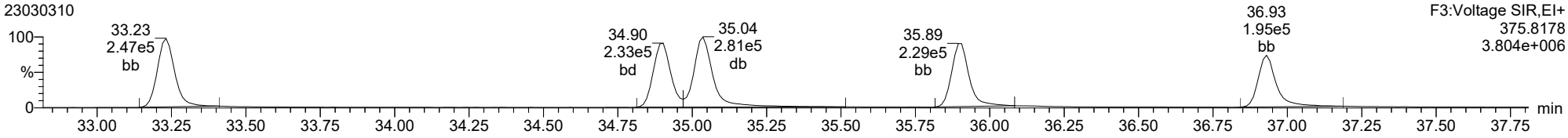

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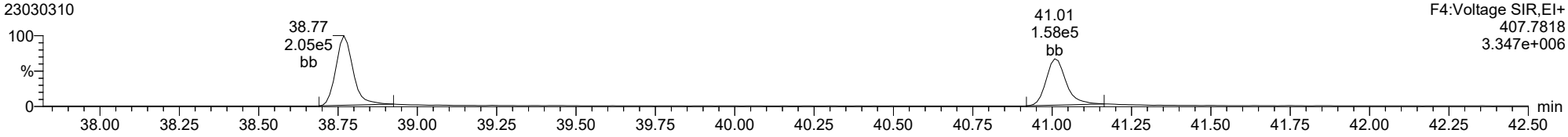

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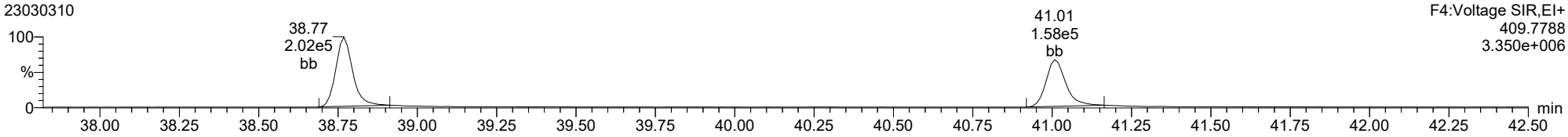

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ID: CS3W2, Name: 23030311, Date: 03-Mar-2023, Time: 17:25:01, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	25.774	1.000	4.131e4	5.488e4	0.702	0.753	0.770	1493	2220	6.02e5	8.13e5	403.0	366.2	NO	bb	bb	10.126
12378-PeCDF	29.934	1.000	2.094e5	1.387e5	0.679	1.510	1.550	3237	2768	3.10e6	2.08e6	956.2	750.8	NO	bb	bb	47.721
23478-PeCDF	31.282	1.001	2.189e5	1.466e5	0.786	1.493	1.550	3237	2768	3.25e6	2.13e6	1004.6	769.0	NO	bb	bb	48.580
123478-HxCDF	34.903	1.001	2.702e5	2.168e5	1.166	1.247	1.240	2948	2161	4.14e6	3.34e6	1404.3	1544.7	NO	bd	bd	47.304
234678-HxCDF	35.905	1.001	2.808e5	2.345e5	1.140	1.198	1.240	2948	2161	4.05e6	3.23e6	1375.6	1495.3	NO	bb	bd	52.050
123678-HxCDF	35.036	1.000	3.125e5	2.496e5	1.091	1.252	1.240	2948	2161	4.44e6	3.55e6	1506.3	1641.4	NO	db	db	51.387
123789-HxCDF	36.931	1.000	2.304e5	1.857e5	1.137	1.240	1.240	2948	2161	3.37e6	2.68e6	1143.7	1240.6	NO	bb	bb	48.904
1234678-HpCDF	38.769	1.000	1.725e5	1.737e5	1.003	0.993	1.050	2044	2260	2.71e6	2.74e6	1326.3	1210.9	NO	bb	bb	47.690
1234789-HpCDF	41.008	1.000	1.395e5	1.236e5	0.953	1.128	1.050	2044	2260	1.71e6	1.64e6	836.3	725.6	NO	bd	bb	53.601
OCDF	45.237	1.005	1.863e5	1.970e5	0.778	0.946	0.890	1162	1746	2.03e6	2.27e6	1745.6	1302.8	NO	bd	bb	95.021
2378-TCDD	26.424	1.001	4.111e4	5.488e4	1.149	0.749	0.770	1210	797	6.31e5	8.06e5	521.2	1010.5	NO	bb	bb	9.017
12378-PeCDD	31.538	1.001	2.212e5	1.442e5	1.022	1.534	1.550	2794	1649	3.14e6	2.05e6	1124.1	1244.9	NO	bb	bb	50.849
123478-HxCDD	36.017	1.000	2.147e5	1.744e5	0.996	1.231	1.240	3133	1871	3.31e6	2.68e6	1055.8	1434.4	NO	bd	bd	50.696
123678-HxCDD	36.139	1.001	2.532e5	2.091e5	1.001	1.211	1.240	3133	1871	3.49e6	2.85e6	1112.6	1520.4	NO	db	db	51.126
123789-HxCDD	36.518	1.011	2.114e5	1.814e5	0.907	1.166	1.240	3133	1871	3.08e6	2.54e6	982.1	1355.5	NO	bb	bd	51.723
1234678-HpCDD	40.273	1.000	1.700e5	1.663e5	1.039	1.022	1.050	1948	2105	2.22e6	2.15e6	1138.4	1022.1	NO	bd	bd	52.721
OCDD	45.000	1.000	2.152e5	2.483e5	0.920	0.867	0.890	885	1554	2.46e6	2.84e6	2785.0	1828.9	NO	bb	bb	97.150
13C-2378-TCDF	25.760	1.007	5.853e5	7.688e5	1.620	0.761	0.770	1921	2018	8.54e6	1.13e7	4445.5	5599.2	NO	bb	bb	89.420
13C-12378-PeCDF	29.923	1.169	6.466e5	4.272e5	1.240	1.513	1.550	2442	3390	8.85e6	5.90e6	3622.7	1739.1	NO	bb	bd	92.612
13C-23478-PeCDF	31.259	1.222	5.702e5	3.869e5	1.118	1.474	1.550	2442	3390	8.42e6	5.62e6	3447.3	1659.1	NO	bb	bb	91.616
13C-123478-HxCDF	34.881	0.955	2.992e5	5.837e5	1.168	0.513	0.510	2430	2952	4.46e6	8.67e6	1835.4	2935.2	NO	bd	bd	95.179
13C-123678-HxCDF	35.025	0.959	3.347e5	6.682e5	1.386	0.501	0.510	2430	2952	4.76e6	9.19e6	1958.9	3111.9	NO	db	db	91.102
13C-234678-HxCDF	35.883	0.983	2.956e5	5.730e5	1.129	0.516	0.510	2430	2952	4.27e6	8.35e6	1756.5	2829.2	NO	bb	bb	96.885
13C-123789-HxCDF	36.919	1.011	2.519e5	4.965e5	0.932	0.507	0.510	2430	2952	3.69e6	7.15e6	1518.9	2421.6	NO	bb	bb	101.167
13C-1234678-HpCDF	38.758	1.062	2.307e5	4.931e5	0.895	0.468	0.440	2487	3339	3.35e6	7.56e6	1347.2	2263.7	NO	bd	bb	101.839
13C-1234789-HpCDF	40.997	1.123	1.602e5	3.548e5	0.770	0.452	0.440	2487	3339	2.05e6	4.72e6	823.7	1413.6	NO	bb	bb	84.268
13C-1234-TCDD	25.591	0.000	4.152e5	5.195e5	1.000	0.799	0.770	2224	1360	6.53e6	8.14e6	2938.6	5984.1	NO	bb	bb	100.000
13C-2378-TCDD	26.396	1.031	4.083e5	5.184e5	1.152	0.788	0.770	2224	1360	5.76e6	7.36e6	2588.5	5411.0	NO	bb	bb	86.032
13C-12378-PeCDD	31.516	1.232	4.323e5	2.709e5	0.829	1.595	1.550	1217	913	6.32e6	3.99e6	5187.9	4362.9	NO	bb	bb	90.774
13C-123478-HxCDD	36.006	0.986	4.338e5	3.372e5	0.995	1.286	1.240	3851	1371	6.85e6	5.33e6	1778.6	3884.7	NO	bd	bd	97.589
13C-123678-HxCDD	36.117	0.989	5.114e5	3.919e5	1.157	1.305	1.240	3851	1371	7.20e6	5.65e6	1870.4	4120.3	NO	db	db	98.370
13C-1234678-HpCDD	40.262	1.103	3.166e5	2.972e5	0.840	1.065	1.050	1699	1520	4.20e6	3.95e6	2473.2	2598.3	NO	bb	bb	92.030
13C-OCDD	44.990	1.232	5.160e5	5.214e5	0.767	0.990	0.890	2001	1870	5.29e6	5.84e6	2645.0	3123.1	NO	bd	bb	170.247
13C-123789-HxCDD	36.507	0.000	4.452e5	3.487e5	1.000	1.277	1.240	3851	1371	6.49e6	5.07e6	1686.5	3694.9	NO	bb	bb	100.000
37CL-2378-TCDD	26.424	1.033	9.071e4		1.288			1721		1.34e6		776.4			bb		7.536

Dataset: T:\Autospec\Processed Data Batch\230303IHICV.qld
Last Altered: Monday, March 06, 2023 11:49:27 Pacific Standard Time
Printed: Monday, March 06, 2023 14:47:33 Pacific Standard Time

ID: CS3W2, Name: 23030311, Date: 03-Mar-2023, Time: 17:25:01, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF	22.271	0.865	5.764e4	7.805e4	0.802	0.738	0.770	1493	2220	9.22e5	1.25e6	617.6	564.2	NO	bb	bb	12.503
1289-TCDF	27.272	1.059	3.446e4	4.665e4	0.678	0.739	0.770	1493	2220	5.07e5	6.62e5	339.5	298.3	NO	bb	db	8.835
13468-PECDF	27.130	0.907	3.611e5	2.330e5	1.246	1.550	1.550	743	1090	5.44e6	3.55e6	7323.2	3255.0	NO	bb	bb	44.390
12389-PECDF	32.318	1.080	2.101e5	1.516e5	0.496	1.387	1.550	3237	2768	2.95e6	1.97e6	910.6	713.0	NO	bb	bd	67.866
123468-HXCDF	33.231	0.953	2.880e5	2.384e5	1.169	1.208	1.240	2948	2161	4.12e6	3.25e6	1397.4	1503.0	NO	bb	bb	51.002
1368-TCDD	23.557	0.892	5.668e4	7.180e4	1.015	0.789	0.770	1210	797	9.15e5	1.16e6	755.8	1460.4	NO	bb	bb	13.654
1289-TCDD	27.017	1.023	3.648e4	4.783e4	0.909	0.763	0.770	1210	797	5.40e5	6.90e5	445.8	865.4	NO	bb	bb	10.012
12479-PECDD	28.819	0.914	3.593e5	2.367e5	2.301	1.518	1.550	2794	1649	3.42e6	2.21e6	1224.5	1341.7	NO	bb	bb	36.832
12389-PECDD	31.928	1.013	2.423e5	1.700e5	1.184	1.426	1.550	2794	1649	3.48e6	2.31e6	1246.0	1399.4	NO	bb	bd	49.543
124679-HXCDD	34.011	0.945	2.330e5	1.909e5	1.115	1.220	1.240	3133	1871	3.38e6	2.76e6	1078.1	1473.6	NO	bb	bb	49.292
1234679-HPCDD	39.225	0.974	2.020e5	1.832e5	1.137	1.103	1.050	1948	2105	2.83e6	2.72e6	1451.0	1293.3	NO	bd	bb	55.196
Total-tetrafurans			1.346e5		0.727			1493		2.05e6							31.724
Total-penta1			3.611e5					743		5.44e6							44.390
Total-pentafurans			6.730e5		0.654			3237		9.80e6							172.856
Total-hexafurans			1.382e6		1.141			2948		2.01e7							250.647
Total-heptafurans			3.120e5		0.978			2044		4.42e6							101.291
Total-Furans			3.049e6		0.922			1493		4.39e7							695.930
Total-tetradioxins			2.249e5		1.024			1210		3.13e6							54.516
Total-pentadioxins			8.229e5		1.502			2794		1.00e7							137.223
Total-hexadioxins			9.123e5		1.005			3133		1.32e7							202.837
Total-heptadioxins			3.720e5		1.088			1948		5.04e6							107.918
Total-Dioxins			2.547e6		1.130			1210		3.39e7							599.643
Total-TEQ			5.596e6					1210		7.78e7							1295.573
FUNCTION1 PFK			7.521e6					557945		8.00e6							
FUNCTION2 PFK			4.110e5					226700		1.13e7							0.000
FUNCTION3 PFK			8.443e6					414812		2.82e6							0.000
FUNCTION4 PFK			2.598e7					304689		2.22e7							
FUNCTION5 PFK			7.163e4					189891		2.74e6							
FUNCTION1 HXCD...			3.794e2					593		5.61e3							0.000
FUNCTION1 HPCD...																	
FUNCTION2 HPCD...			8.042e2					818		1.73e4							0.000
FUNCTION3 OCDPE			9.563e1					429		1.87e3							0.000
FUNCTION4 NCDPE			0.000e0					545		0.00e0							
FUNCTION5 DCDPE			0.000e0					542		0.00e0							

Method: T:\Autospec\Methods\Dioxin230303.mdb 03 Mar 2023 14:58:50
Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 10:57:27

ID: CS3W2, Name: 23030311, Date: 03-Mar-2023, Time: 17:25:01, Conditions: AUTOSPEC01, User: pk

TF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.27	3.446e4	4.665e4	0.678	0.74	0.77	339.5	YES	NO	bb	db	8.835
2	2378-TCDF	25.77	4.131e4	5.488e4	0.702	0.75	0.77	403.0	YES	NO	bb	bb	10.126
3	Total-tetrafurans	24.86	6.389e2	7.978e2	0.727	0.80	0.77	6.2	YES	NO	bb	bb	0.146
4	Total-tetrafurans	24.55	5.238e2	5.981e2	0.727	0.88	0.77	6.0	YES	NO	bb	bb	0.114
5	1368-TCDF	22.27	5.764e4	7.805e4	0.802	0.74	0.77	617.6	YES	NO	bb	bb	12.503

PP

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	13468-PECDF	27.13	3.611e5	2.330e5	1.246	1.55	1.55	7323.2	YES	NO	bb	bb	44.390

PF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12389-PECDF	32.32	2.101e5	1.516e5	0.496	1.39	1.55	910.6	YES	NO	bb	bd	67.866
2	23478-PeCDF	31.28	2.189e5	1.466e5	0.786	1.49	1.55	1004.6	YES	NO	bb	bb	48.580
3	12378-PeCDF	29.93	2.094e5	1.387e5	0.679	1.51	1.55	956.2	YES	NO	bb	bb	47.721
4	Total-pentafurans	28.80	3.458e4	2.311e4	0.654	1.50	1.55	155.8	YES	NO	bb	bb	8.688

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123478-HxCDF	34.90	2.702e5	2.168e5	1.166	1.25	1.24	1404.3	YES	NO	bd	bd	47.304
2	123468-HXCDF	33.23	2.880e5	2.384e5	1.169	1.21	1.24	1397.4	YES	NO	bb	bb	51.002
3	123789-HxCDF	36.93	2.304e5	1.857e5	1.137	1.24	1.24	1143.7	YES	NO	bb	bb	48.904
4	234678-HxCDF	35.91	2.808e5	2.345e5	1.140	1.20	1.24	1375.6	YES	NO	bb	bd	52.050
5	123678-HxCDF	35.04	3.125e5	2.496e5	1.091	1.25	1.24	1506.3	YES	NO	db	db	51.387

HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234789-HpCDF	41.01	1.395e5	1.236e5	0.953	1.13	1.05	836.3	YES	NO	bd	bb	53.601
2	1234678-HpCDF	38.77	1.725e5	1.737e5	1.003	0.99	1.05	1326.3	YES	NO	bb	bb	47.690

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Furans,TF,PP,PF,HF,HPF,OF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.27	3.446e4	4.665e4	0.678	0.74	0.77	339.5	YES	NO	bb	db	8.835
2	2378-TCDF	25.77	4.131e4	5.488e4	0.702	0.75	0.77	403.0	YES	NO	bb	bb	10.126
3	Total-tetrafurans	24.86	6.389e2	7.978e2	0.727	0.80	0.77	6.2	YES	NO	bb	bb	0.146
4	Total-tetrafurans	24.55	5.238e2	5.981e2	0.727	0.88	0.77	6.0	YES	NO	bb	bb	0.114
5	1368-TCDF	22.27	5.764e4	7.805e4	0.802	0.74	0.77	617.6	YES	NO	bb	bb	12.503
6	12389-PECDF	32.32	2.101e5	1.516e5	0.496	1.39	1.55	910.6	YES	NO	bb	bd	67.866
7	23478-PeCDF	31.28	2.189e5	1.466e5	0.786	1.49	1.55	1004.6	YES	NO	bb	bb	48.580
8	12378-PeCDF	29.93	2.094e5	1.387e5	0.679	1.51	1.55	956.2	YES	NO	bb	bb	47.721
9	Total-pentafurans	28.80	3.458e4	2.311e4	0.654	1.50	1.55	155.8	YES	NO	bb	bb	8.688
10	123478-HxCDF	34.90	2.702e5	2.168e5	1.166	1.25	1.24	1404.3	YES	NO	bd	bd	47.304
11	123468-HXCDF	33.23	2.880e5	2.384e5	1.169	1.21	1.24	1397.4	YES	NO	bb	bb	51.002
12	123789-HxCDF	36.93	2.304e5	1.857e5	1.137	1.24	1.24	1143.7	YES	NO	bb	bb	48.904
13	234678-HxCDF	35.91	2.808e5	2.345e5	1.140	1.20	1.24	1375.6	YES	NO	bb	bd	52.050
14	123678-HxCDF	35.04	3.125e5	2.496e5	1.091	1.25	1.24	1506.3	YES	NO	db	db	51.387
15	1234789-HpCDF	41.01	1.395e5	1.236e5	0.953	1.13	1.05	836.3	YES	NO	bd	bb	53.601
16	1234678-HpCDF	38.77	1.725e5	1.737e5	1.003	0.99	1.05	1326.3	YES	NO	bb	bb	47.690
17	OCDF	45.24	1.863e5	1.970e5	0.778	0.95	0.89	1745.6	YES	NO	bd	bb	95.021
18	13468-PECDF	27.13	3.611e5	2.330e5	1.246	1.55	1.55	7323.2	YES	NO	bb	bb	44.390

TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1368-TCDD	23.56	5.668e4	7.180e4	1.015	0.79	0.77	755.8	YES	NO	bb	bb	13.654
2	1289-TCDD	27.02	3.648e4	4.783e4	0.909	0.76	0.77	445.8	YES	NO	bb	bb	10.012
3	2378-TCDD	26.42	4.111e4	5.488e4	1.149	0.75	0.77	521.2	YES	NO	bb	bb	9.017
4	Total-tetradioxins	26.10	6.719e4	8.697e4	1.024	0.77	0.77	561.8	YES	NO	bb	bb	16.242
5	Total-tetradioxins	25.60	2.343e4	2.963e4	1.024	0.79	0.77	301.6	YES	NO	bb	bb	5.591

PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12389-PECDD	31.93	2.423e5	1.700e5	1.184	1.43	1.55	1246.0	YES	NO	bb	bd	49.543
2	12378-PeCDD	31.54	2.212e5	1.442e5	1.022	1.53	1.55	1124.1	YES	NO	bb	bb	50.849
3	12479-PECDD	28.82	3.593e5	2.367e5	2.301	1.52	1.55	1224.5	YES	NO	bb	bb	36.832

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HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	124679-HXCDD	34.01	2.330e5	1.909e5	1.115	1.22	1.24	1078.1	YES	NO	bb	bb	49.292
2	123789-HxCDD	36.52	2.114e5	1.814e5	0.907	1.17	1.24	982.1	YES	NO	bb	bd	51.723
3	123678-HxCDD	36.14	2.532e5	2.091e5	1.001	1.21	1.24	1112.6	YES	NO	db	db	51.126
4	123478-HxCDD	36.02	2.147e5	1.744e5	0.996	1.23	1.24	1055.8	YES	NO	bd	bd	50.696

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	40.27	1.700e5	1.663e5	1.039	1.02	1.05	1138.4	YES	NO	bd	bd	52.721
2	1234679-HPCDD	39.23	2.020e5	1.832e5	1.137	1.10	1.05	1451.0	YES	NO	bd	bb	55.196

Dioxins,TD,PD,HD,HPD,OD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1368-TCDD	23.56	5.668e4	7.180e4	1.015	0.79	0.77	755.8	YES	NO	bb	bb	13.654
2	1289-TCDD	27.02	3.648e4	4.783e4	0.909	0.76	0.77	445.8	YES	NO	bb	bb	10.012
3	2378-TCDD	26.42	4.111e4	5.488e4	1.149	0.75	0.77	521.2	YES	NO	bb	bb	9.017
4	Total-tetradioxins	26.10	6.719e4	8.697e4	1.024	0.77	0.77	561.8	YES	NO	bb	bb	16.242
5	Total-tetradioxins	25.60	2.343e4	2.963e4	1.024	0.79	0.77	301.6	YES	NO	bb	bb	5.591
6	12389-PECDD	31.93	2.423e5	1.700e5	1.184	1.43	1.55	1246.0	YES	NO	bb	bd	49.543
7	12378-PeCDD	31.54	2.212e5	1.442e5	1.022	1.53	1.55	1124.1	YES	NO	bb	bb	50.849
8	12479-PECDD	28.82	3.593e5	2.367e5	2.301	1.52	1.55	1224.5	YES	NO	bb	bb	36.832
9	124679-HXCDD	34.01	2.330e5	1.909e5	1.115	1.22	1.24	1078.1	YES	NO	bb	bb	49.292
10	123789-HxCDD	36.52	2.114e5	1.814e5	0.907	1.17	1.24	982.1	YES	NO	bb	bd	51.723
11	123678-HxCDD	36.14	2.532e5	2.091e5	1.001	1.21	1.24	1112.6	YES	NO	db	db	51.126
12	123478-HxCDD	36.02	2.147e5	1.744e5	0.996	1.23	1.24	1055.8	YES	NO	bd	bd	50.696
13	1234678-HpCDD	40.27	1.700e5	1.663e5	1.039	1.02	1.05	1138.4	YES	NO	bd	bd	52.721
14	1234679-HPCDD	39.23	2.020e5	1.832e5	1.137	1.10	1.05	1451.0	YES	NO	bd	bb	55.196
15	OCDD	45.00	2.152e5	2.483e5	0.920	0.87	0.89	2785.0	YES	NO	bb	bb	97.150

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TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.27	3.446e4	4.665e4	0.678	0.74	0.77	339.5	YES	NO	bb	db	8.835
2	2378-TCDF	25.77	4.131e4	5.488e4	0.702	0.75	0.77	403.0	YES	NO	bb	bb	10.126
3	Total-tetrafurans	24.86	6.389e2	7.978e2	0.727	0.80	0.77	6.2	YES	NO	bb	bb	0.146
4	Total-tetrafurans	24.55	5.238e2	5.981e2	0.727	0.88	0.77	6.0	YES	NO	bb	bb	0.114
5	1368-TCDF	22.27	5.764e4	7.805e4	0.802	0.74	0.77	617.6	YES	NO	bb	bb	12.503
6	12389-PECDF	32.32	2.101e5	1.516e5	0.496	1.39	1.55	910.6	YES	NO	bb	bd	67.866
7	23478-PeCDF	31.28	2.189e5	1.466e5	0.786	1.49	1.55	1004.6	YES	NO	bb	bb	48.580
8	12378-PeCDF	29.93	2.094e5	1.387e5	0.679	1.51	1.55	956.2	YES	NO	bb	bb	47.721
9	Total-pentafurans	28.80	3.458e4	2.311e4	0.654	1.50	1.55	155.8	YES	NO	bb	bb	8.688
10	123478-HxCDF	34.90	2.702e5	2.168e5	1.166	1.25	1.24	1404.3	YES	NO	bd	bd	47.304
11	123468-HXCDF	33.23	2.880e5	2.384e5	1.169	1.21	1.24	1397.4	YES	NO	bb	bb	51.002
12	123789-HxCDF	36.93	2.304e5	1.857e5	1.137	1.24	1.24	1143.7	YES	NO	bb	bb	48.904
13	234678-HxCDF	35.91	2.808e5	2.345e5	1.140	1.20	1.24	1375.6	YES	NO	bb	bd	52.050
14	123678-HxCDF	35.04	3.125e5	2.496e5	1.091	1.25	1.24	1506.3	YES	NO	db	db	51.387
15	1234789-HpCDF	41.01	1.395e5	1.236e5	0.953	1.13	1.05	836.3	YES	NO	bd	bb	53.601
16	1234678-HpCDF	38.77	1.725e5	1.737e5	1.003	0.99	1.05	1326.3	YES	NO	bb	bb	47.690
17	OCDF	45.24	1.863e5	1.970e5	0.778	0.95	0.89	1745.6	YES	NO	bd	bb	95.021
18	13468-PECDF	27.13	3.611e5	2.330e5	1.246	1.55	1.55	7323.2	YES	NO	bb	bb	44.390
19	1368-TCDD	23.56	5.668e4	7.180e4	1.015	0.79	0.77	755.8	YES	NO	bb	bb	13.654
20	1289-TCDD	27.02	3.648e4	4.783e4	0.909	0.76	0.77	445.8	YES	NO	bb	bb	10.012
21	2378-TCDD	26.42	4.111e4	5.488e4	1.149	0.75	0.77	521.2	YES	NO	bb	bb	9.017
22	Total-tetradioxins	26.10	6.719e4	8.697e4	1.024	0.77	0.77	561.8	YES	NO	bb	bb	16.242
23	Total-tetradioxins	25.60	2.343e4	2.963e4	1.024	0.79	0.77	301.6	YES	NO	bb	bb	5.591
24	12389-PECDD	31.93	2.423e5	1.700e5	1.184	1.43	1.55	1246.0	YES	NO	bb	bd	49.543
25	12378-PeCDD	31.54	2.212e5	1.442e5	1.022	1.53	1.55	1124.1	YES	NO	bb	bb	50.849
26	12479-PECDD	28.82	3.593e5	2.367e5	2.301	1.52	1.55	1224.5	YES	NO	bb	bb	36.832
27	124679-HXCDD	34.01	2.330e5	1.909e5	1.115	1.22	1.24	1078.1	YES	NO	bb	bb	49.292
28	123789-HxCDD	36.52	2.114e5	1.814e5	0.907	1.17	1.24	982.1	YES	NO	bb	bd	51.723
29	123678-HxCDD	36.14	2.532e5	2.091e5	1.001	1.21	1.24	1112.6	YES	NO	db	db	51.126
30	123478-HxCDD	36.02	2.147e5	1.744e5	0.996	1.23	1.24	1055.8	YES	NO	bd	bd	50.696
31	1234678-HpCDD	40.27	1.700e5	1.663e5	1.039	1.02	1.05	1138.4	YES	NO	bd	bd	52.721
32	1234679-HPCDD	39.23	2.020e5	1.832e5	1.137	1.10	1.05	1451.0	YES	NO	bd	bb	55.196
33	OCDD	45.00	2.152e5	2.483e5	0.920	0.87	0.89	2785.0	YES	NO	bb	bb	97.150

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PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	22.45	3.397e6					9.1	YES		db		
2	FUNCTION1 PFK	22.00	4.124e6					5.2	YES		bd		

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PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	28.25	2.674e4					2.5	NO		db		0.000
2	FUNCTION2 PFK	28.20	5.558e3					1.1	NO		dd		0.000
3	FUNCTION2 PFK	28.15	1.333e4					1.7	NO		bd		0.000
4	FUNCTION2 PFK	28.11	4.408e3					0.8	NO		bb		0.000
5	FUNCTION2 PFK	30.52	5.287e3					0.9	NO		bd		0.000
6	FUNCTION2 PFK	30.38	1.568e4					1.4	NO		bb		0.000
7	FUNCTION2 PFK	30.23	2.380e4					1.5	NO		db		0.000
8	FUNCTION2 PFK	30.10	2.694e4					1.7	NO		bd		0.000
9	FUNCTION2 PFK	29.99	2.076e3					0.5	NO		bb		0.000
10	FUNCTION2 PFK	29.89	7.421e3					1.2	NO		bb		0.000
11	FUNCTION2 PFK	29.80	6.022e3					0.5	NO		bb		0.000
12	FUNCTION2 PFK	29.62	1.101e4					1.2	NO		bb		0.000
13	FUNCTION2 PFK	29.52	2.200e4					2.0	NO		bb		0.000
14	FUNCTION2 PFK	29.42	7.036e3					1.0	NO		bb		0.000
15	FUNCTION2 PFK	29.29	2.309e4					2.2	NO		bb		0.000
16	FUNCTION2 PFK	29.03	1.036e4					1.7	NO		db		0.000
17	FUNCTION2 PFK	29.00	8.382e3					1.3	NO		bd		0.000
18	FUNCTION2 PFK	28.80	5.680e3					0.9	NO		bb		0.000
19	FUNCTION2 PFK	28.70	1.413e4					1.3	NO		bb		0.000
20	FUNCTION2 PFK	28.60	2.690e3					0.7	NO		bb		0.000
21	FUNCTION2 PFK	32.35	9.362e3					1.3	NO		bd		0.000
22	FUNCTION2 PFK	32.28	5.282e3					0.9	NO		bb		0.000
23	FUNCTION2 PFK	31.94	5.478e3					0.6	NO		bb		0.000
24	FUNCTION2 PFK	31.86	9.539e3					1.3	NO		bb		0.000
25	FUNCTION2 PFK	31.70	8.598e3					0.9	NO		bb		0.000
26	FUNCTION2 PFK	31.56	1.164e4					1.5	NO		bb		0.000
27	FUNCTION2 PFK	31.44	9.870e3					1.2	NO		bb		0.000
28	FUNCTION2 PFK	31.37	5.651e3					1.2	NO		bb		0.000
29	FUNCTION2 PFK	31.16	3.906e3					0.7	NO		db		0.000
30	FUNCTION2 PFK	31.10	5.259e3					1.0	NO		bd		0.000
31	FUNCTION2 PFK	31.00	2.220e3					0.5	NO		bb		0.000
32	FUNCTION2 PFK	30.93	4.197e3					0.6	NO		bb		0.000
33	FUNCTION2 PFK	30.84	1.813e4					1.7	NO		bb		0.000
34	FUNCTION2 PFK	30.68	6.046e3					1.3	NO		db		0.000
35	FUNCTION2 PFK	30.64	6.706e3					1.2	NO		dd		0.000
36	FUNCTION2 PFK	30.58	1.475e4					1.4	NO		dd		0.000
37	FUNCTION2 PFK	32.74	9.704e3					1.1	NO		bb		0.000

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PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	FUNCTION2 PFK	32.61	1.975e3					0.6	NO		bb		0.000
39	FUNCTION2 PFK	32.55	1.171e3					0.5	NO		bb		0.000
40	FUNCTION2 PFK	32.51	7.325e3					1.0	NO		db		0.000
41	FUNCTION2 PFK	32.45	9.340e3					1.3	NO		dd		0.000
42	FUNCTION2 PFK	32.41	1.322e4					1.9	NO		dd		0.000

PFK3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	37.70	5.175e4					1.9	NO		bb		0.000
2	FUNCTION3 PFK	35.52	3.681e5					3.3	YES		bb		0.000
3	FUNCTION3 PFK	34.42	8.023e6					1.5	NO		bb		0.000

PFK4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	40.67	5.668e6					23.1	YES		db		
2	FUNCTION4 PFK	39.84	1.814e7					26.9	YES		dd		
3	FUNCTION4 PFK	38.09	2.173e6					22.8	YES		bd		

PFK5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	42.82	4.953e3					1.4	NO		bb		
2	FUNCTION5 PFK	45.79	4.078e3					1.3	NO		db		
3	FUNCTION5 PFK	45.76	2.296e3					0.8	NO		bd		
4	FUNCTION5 PFK	45.37	1.499e4					1.8	NO		bb		
5	FUNCTION5 PFK	45.31	3.040e3					1.0	NO		bb		
6	FUNCTION5 PFK	44.94	1.866e3					0.7	NO		bb		
7	FUNCTION5 PFK	44.62	4.342e3					1.3	NO		bb		
8	FUNCTION5 PFK	43.85	4.909e3					1.2	NO		bb		
9	FUNCTION5 PFK	43.55	9.698e3					1.7	NO		bb		
10	FUNCTION5 PFK	43.31	1.818e4					2.2	NO		bb		
11	FUNCTION5 PFK	43.18	3.274e3					1.0	NO		bb		

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ETHERS1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	27.14	7.703e1					2.6	NO		bb		0.000
2	FUNCTION1 HXCD...	25.58	1.369e2					3.0	NO		bb		0.000
3	FUNCTION1 HXCD...	24.29	7.654e1					1.4	NO		bb		0.000
4	FUNCTION1 HXCD...	23.49	8.895e1					2.4	NO		bb		0.000

ETHERS2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	32.41	1.026e2					2.4	NO		db		0.000
2	FUNCTION2 HPCD...	32.32	1.299e2					2.2	NO		bd		0.000
3	FUNCTION2 HPCD...	31.19	1.035e2					3.9	YES		db		0.000
4	FUNCTION2 HPCD...	31.15	2.274e2					6.9	YES		bd		0.000
5	FUNCTION2 HPCD...	29.21	1.504e2					2.9	NO		bb		0.000
6	FUNCTION2 HPCD...	28.77	9.035e1					2.8	NO		bb		0.000

ETHERS4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	36.51	9.563e1					4.4	YES		bb		0.000

ETHERS5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

ETHERS6

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

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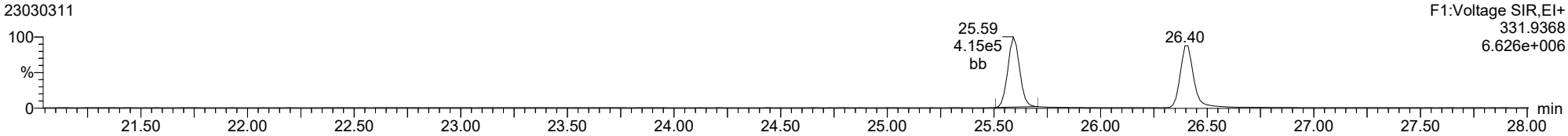
ID: CS3W2, Name: 23030311, Date: 03-Mar-2023, Time: 17:25:01, Conditions: AUTOSPEC01, User: pk

13C-1234-TCDD



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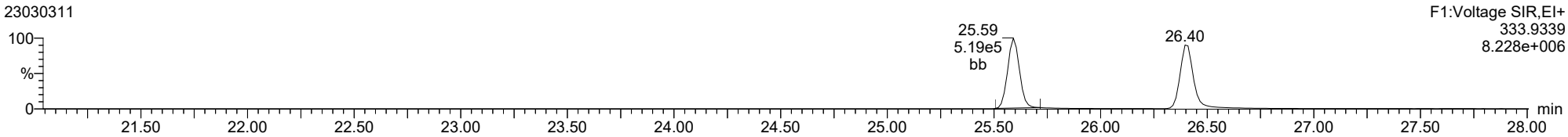

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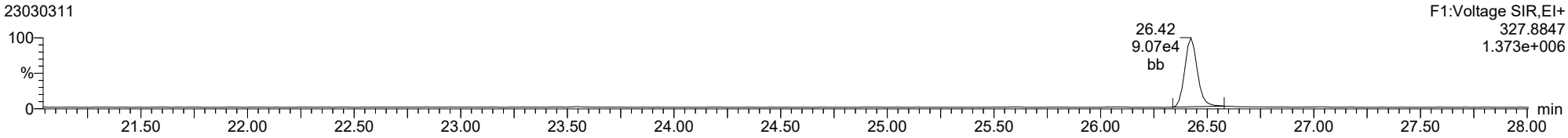

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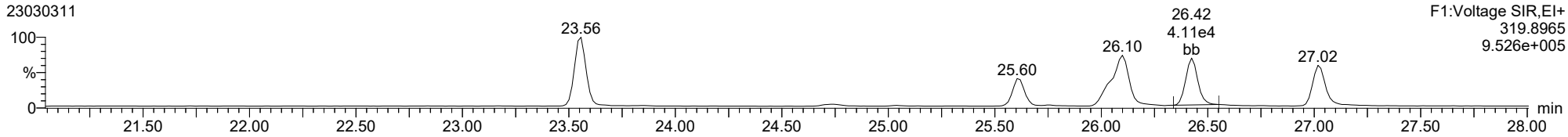
2378-TCDD



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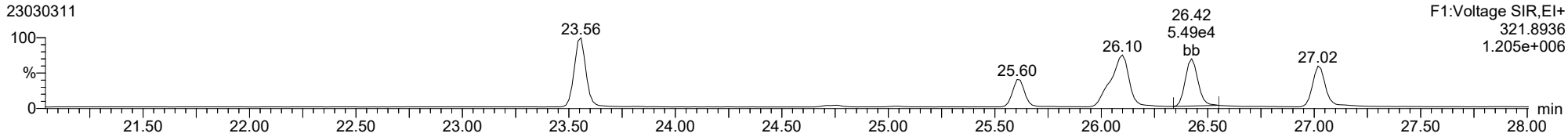

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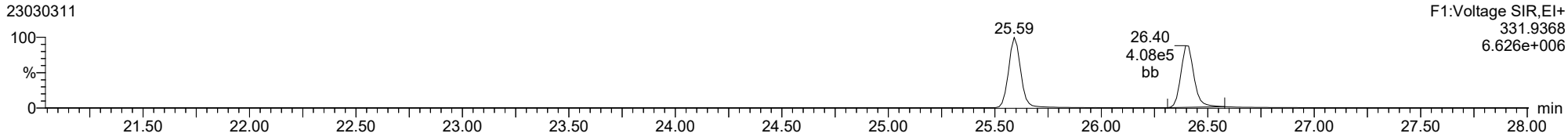

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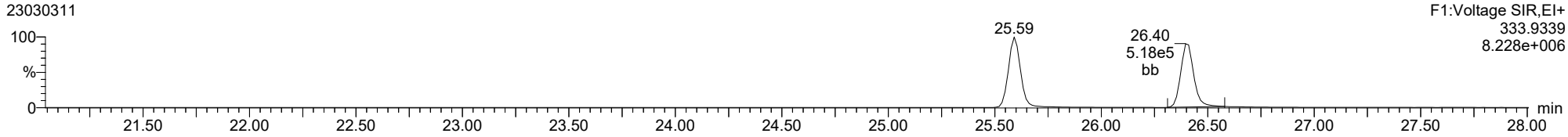

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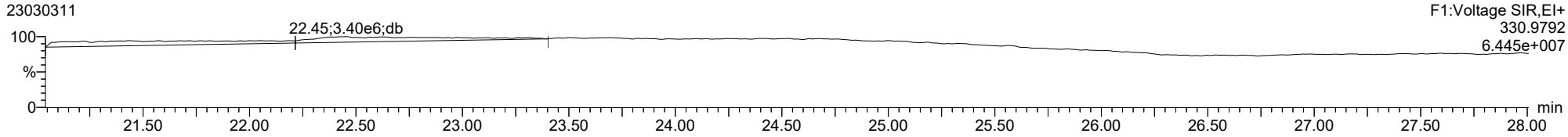

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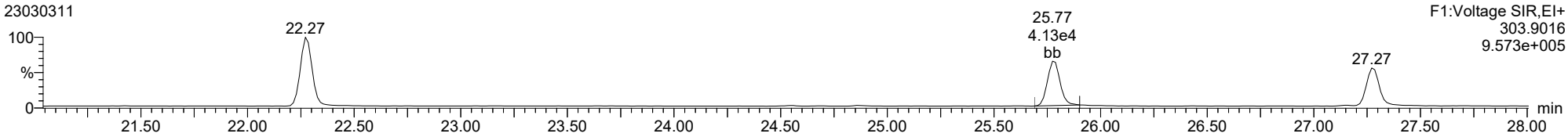
2378-TCDF



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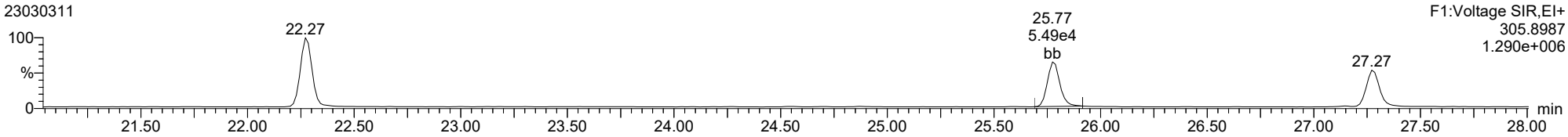

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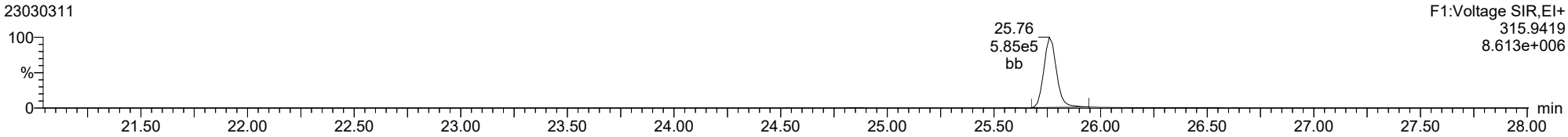

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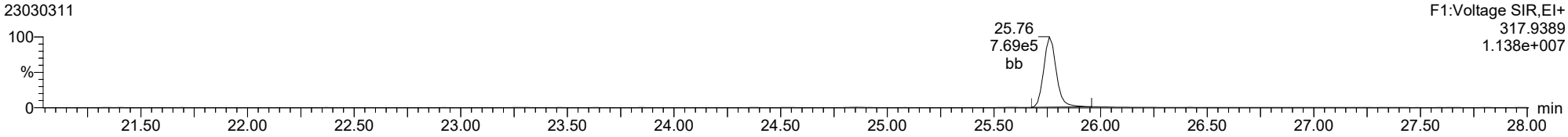

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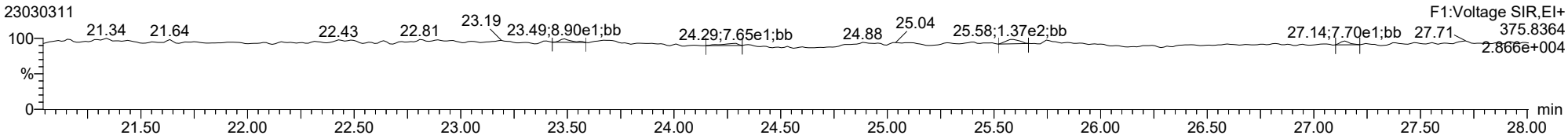

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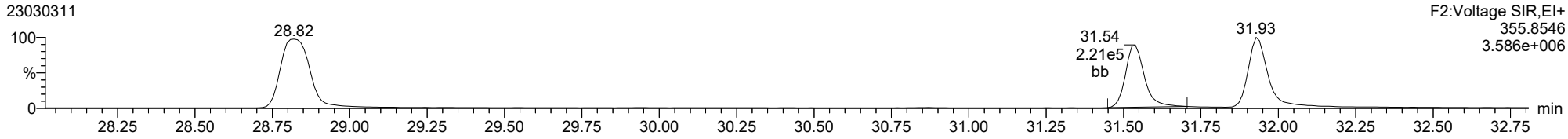
12378-PeCDD



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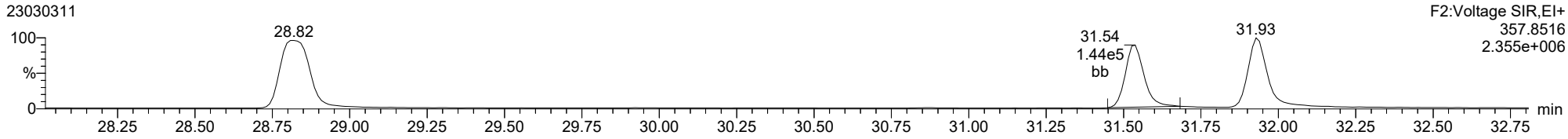

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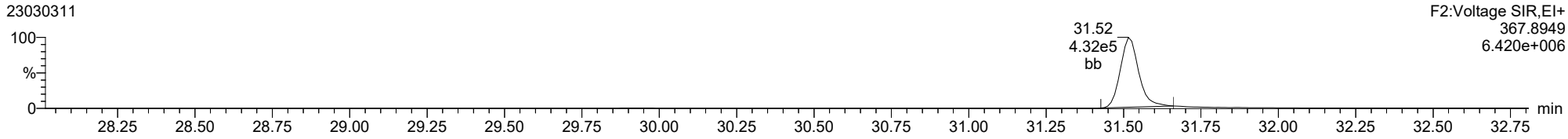

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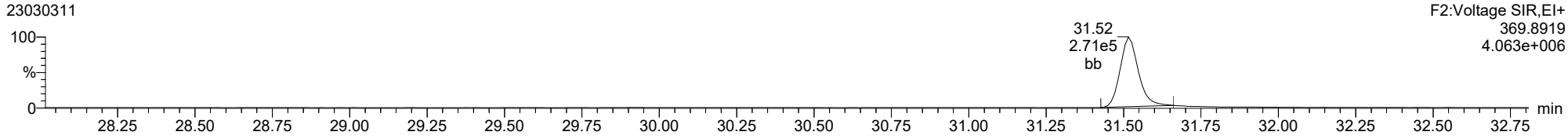

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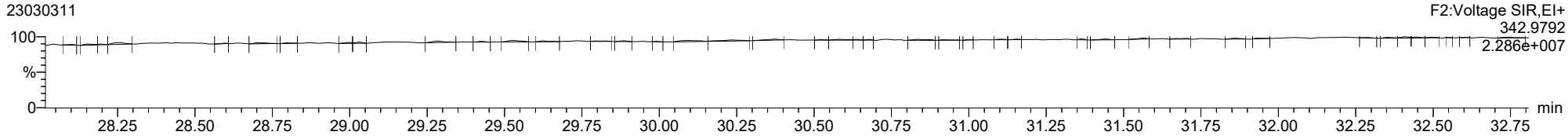

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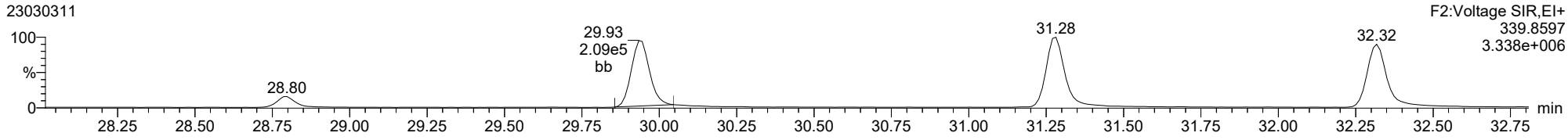

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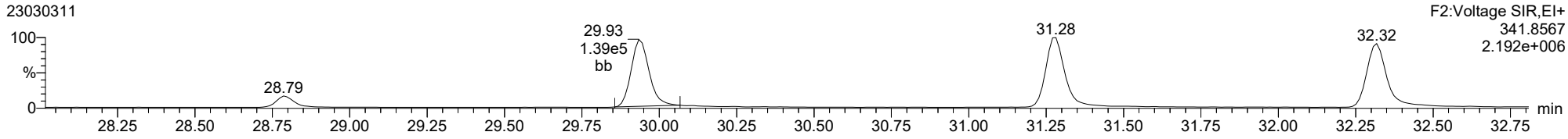

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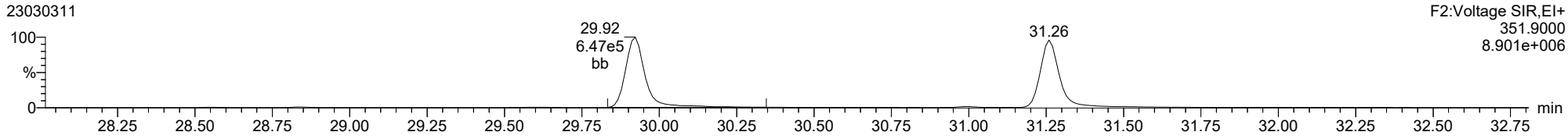

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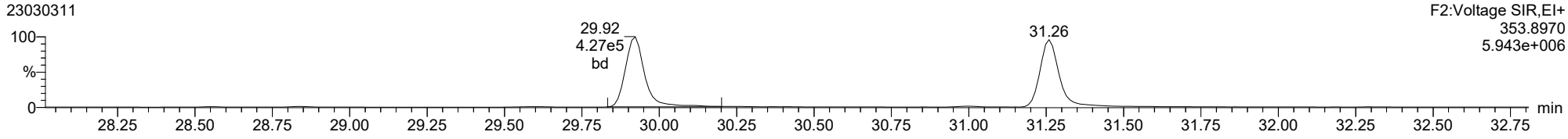

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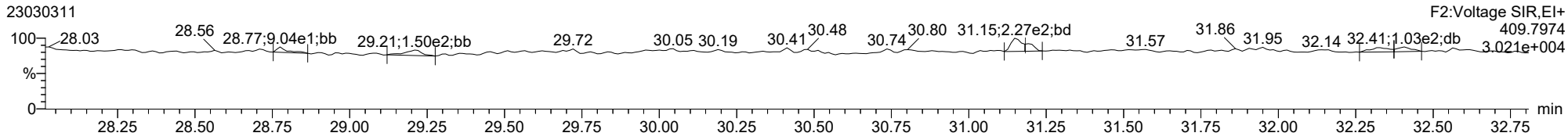

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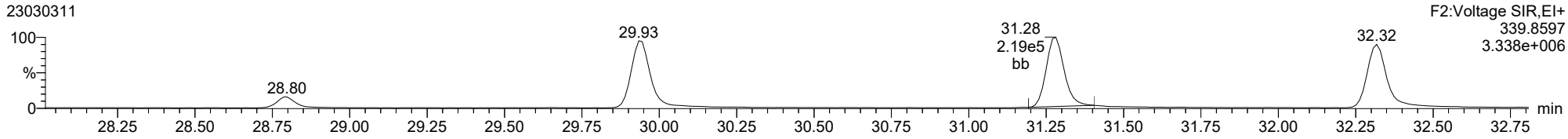

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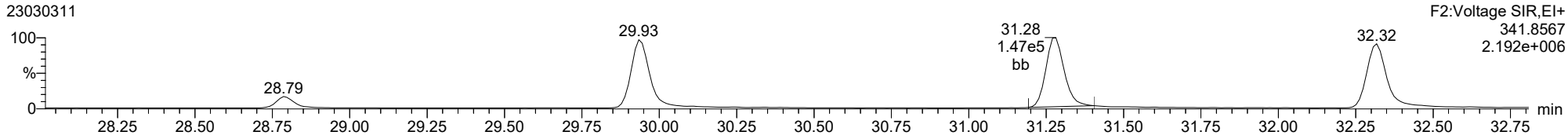

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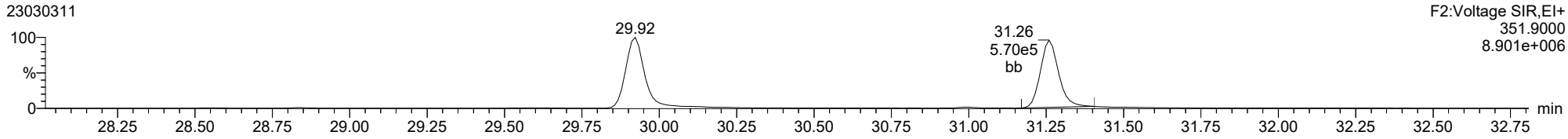

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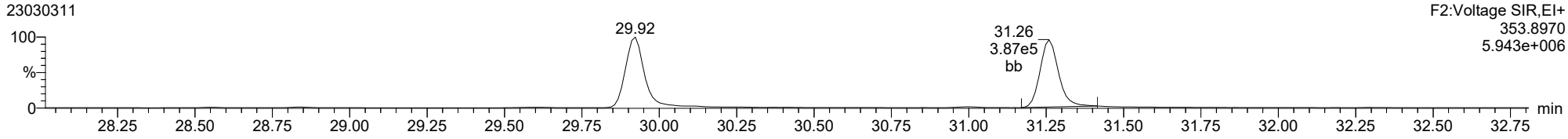

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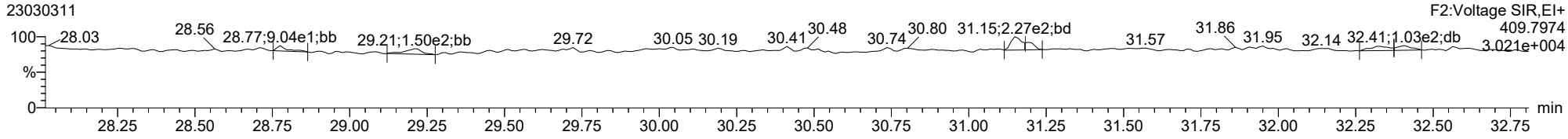

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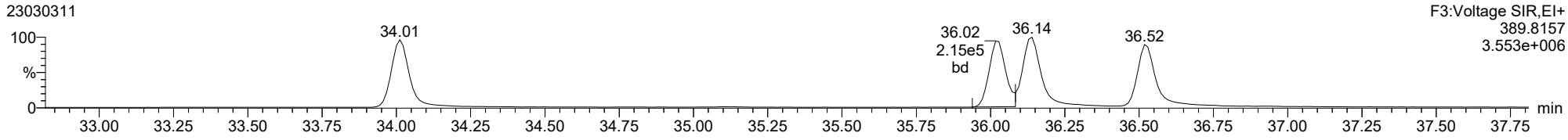

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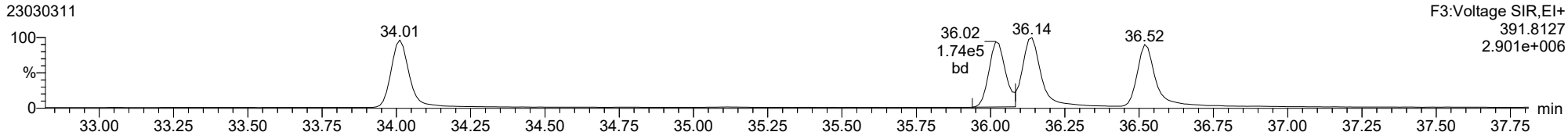

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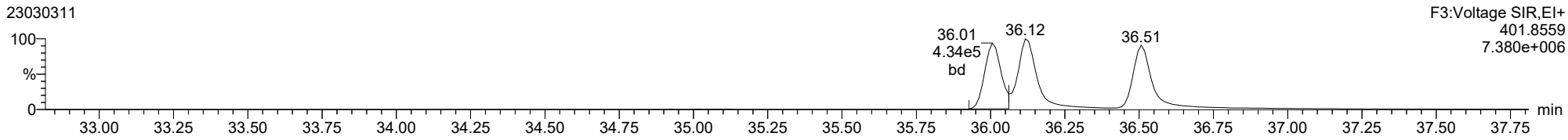

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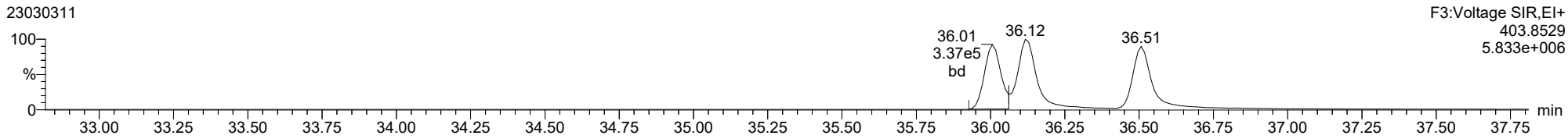

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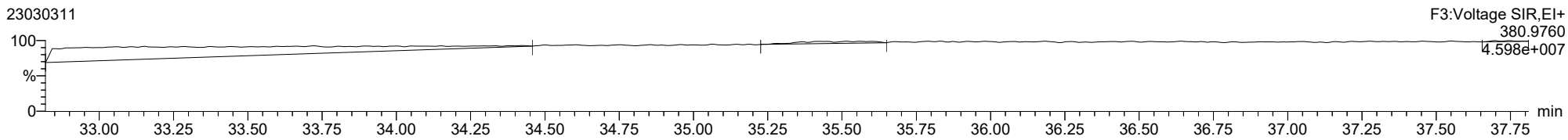

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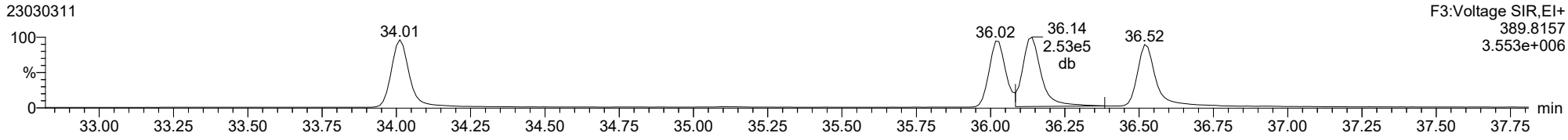

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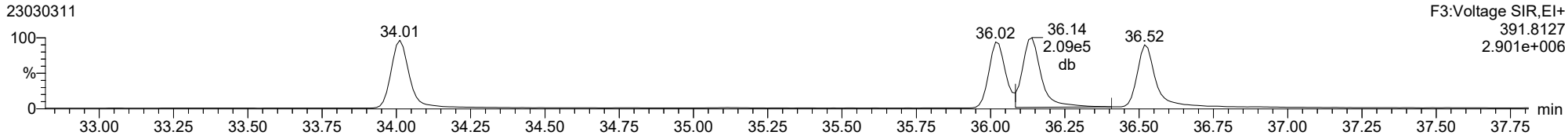

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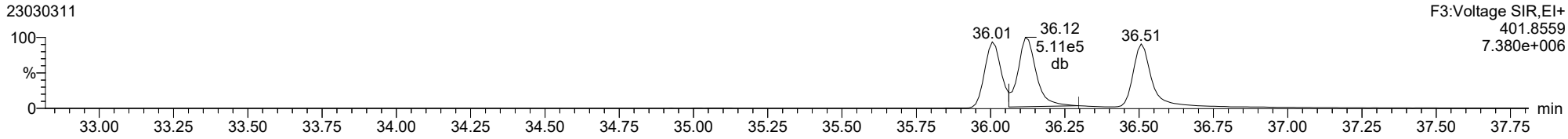

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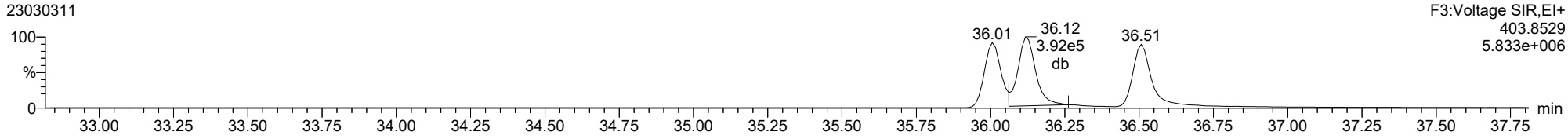

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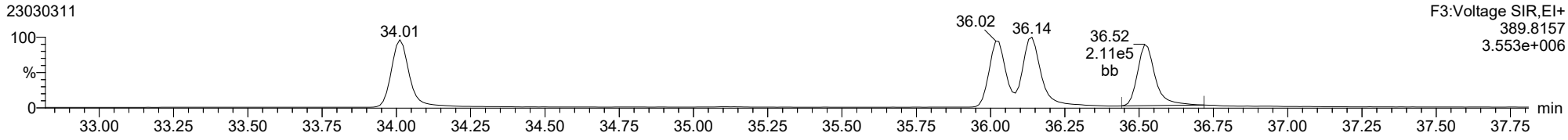

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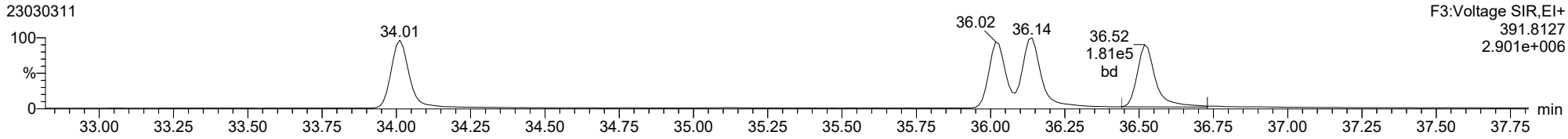

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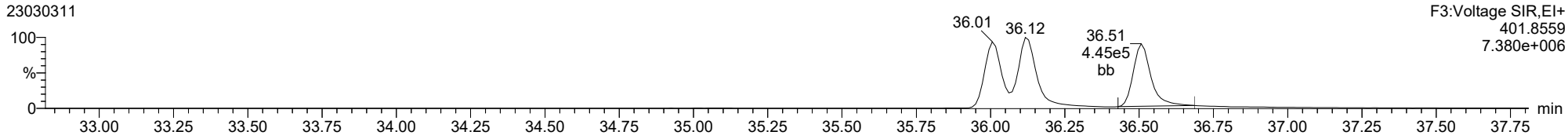

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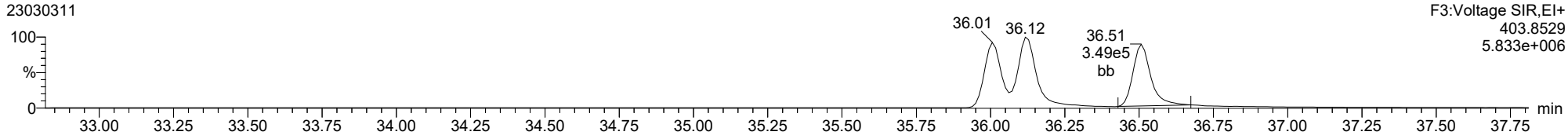

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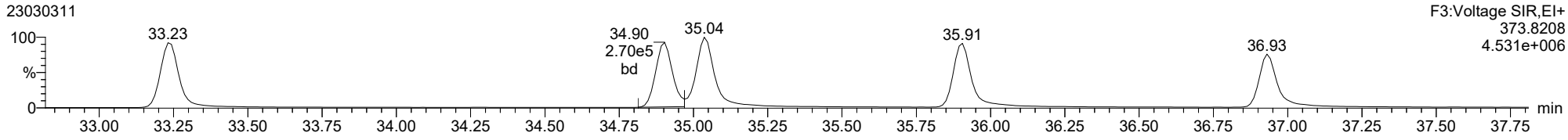

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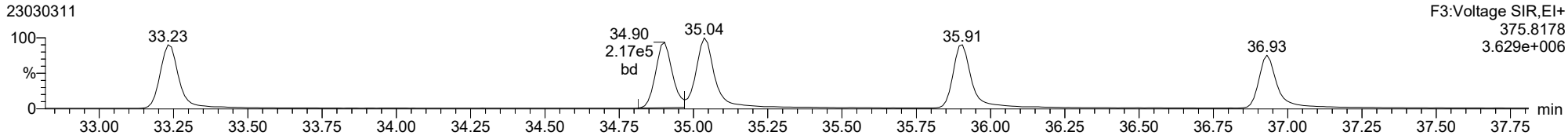

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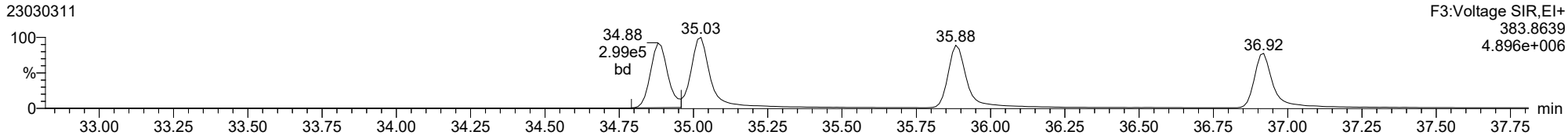

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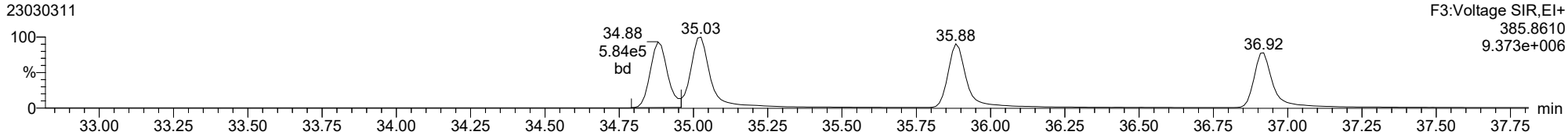

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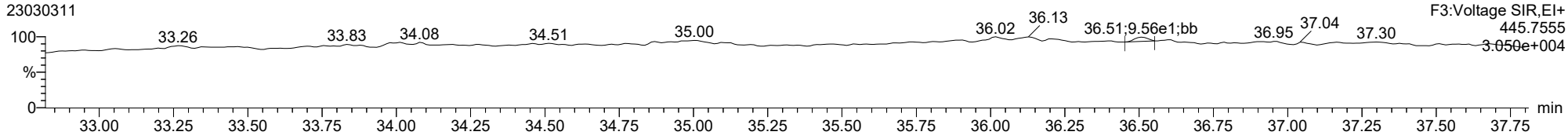

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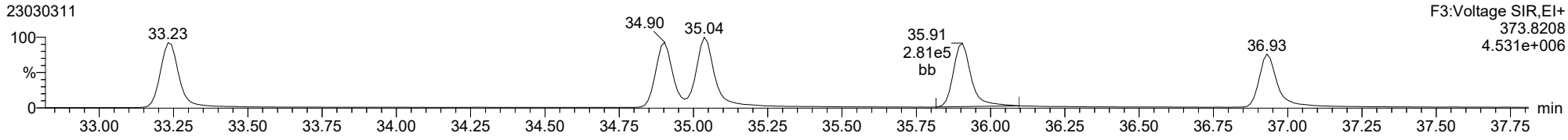

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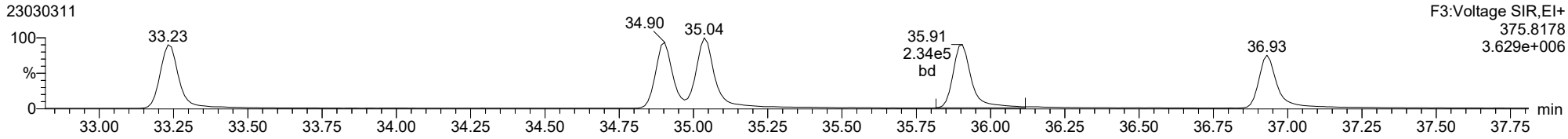

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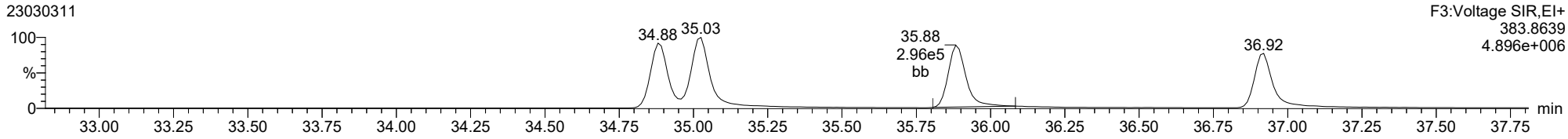

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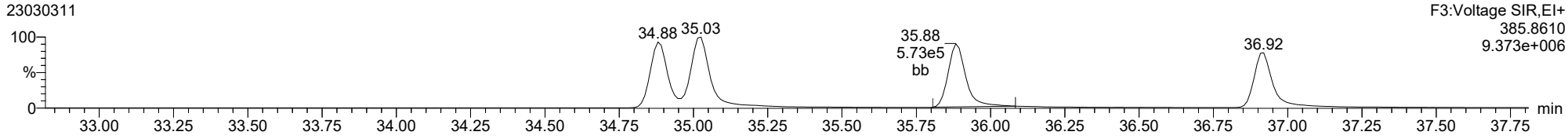

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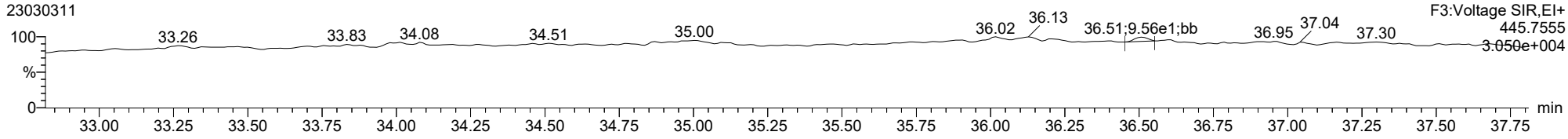

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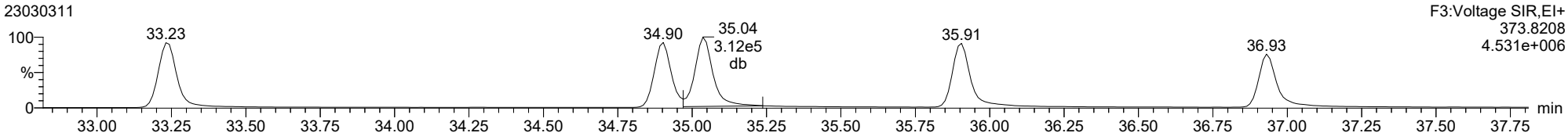

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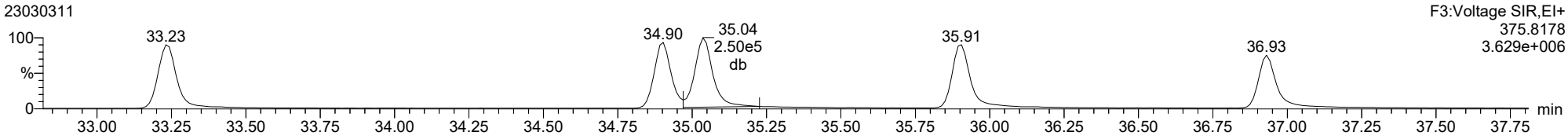

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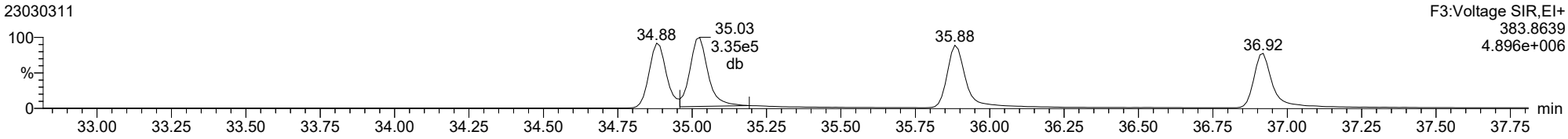

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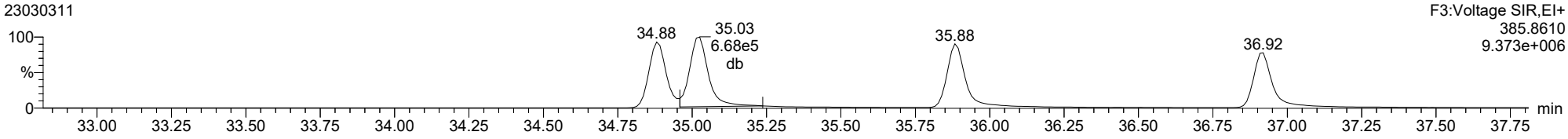

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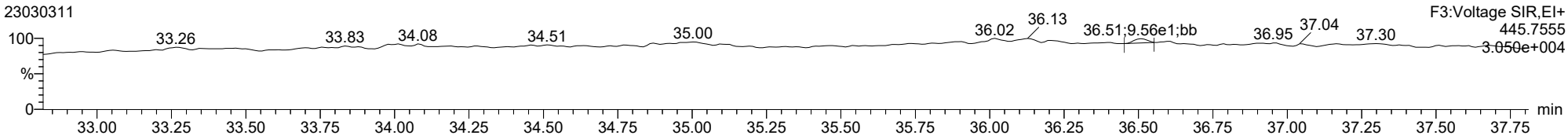

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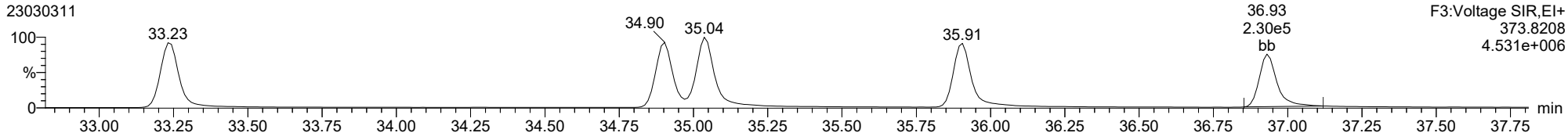

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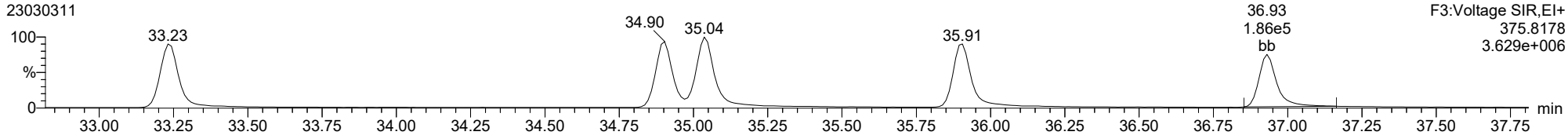

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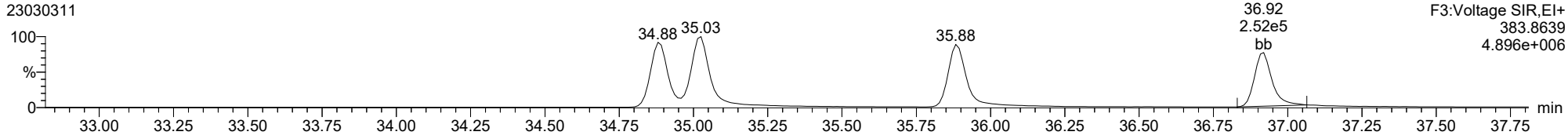

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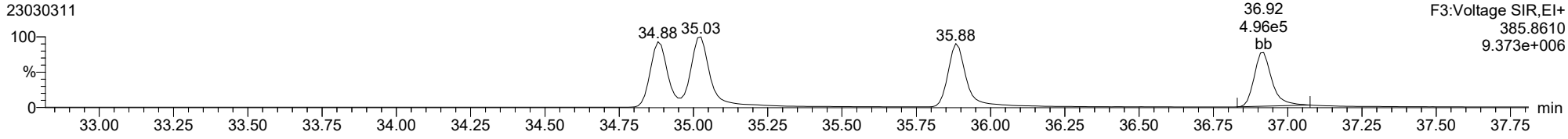

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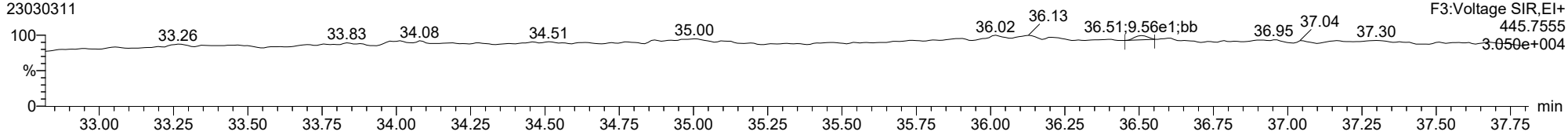

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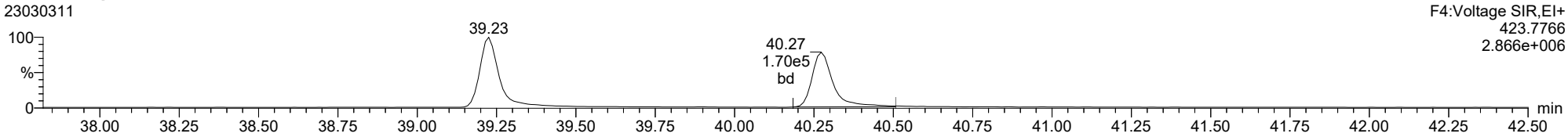

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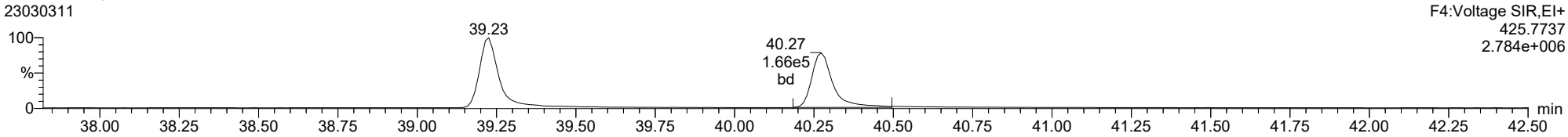

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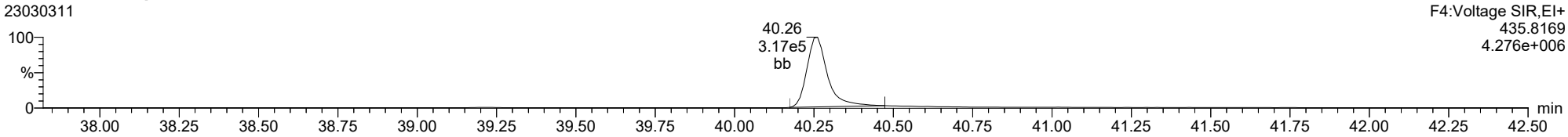

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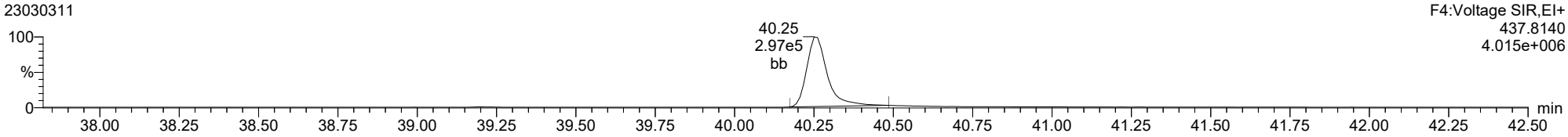

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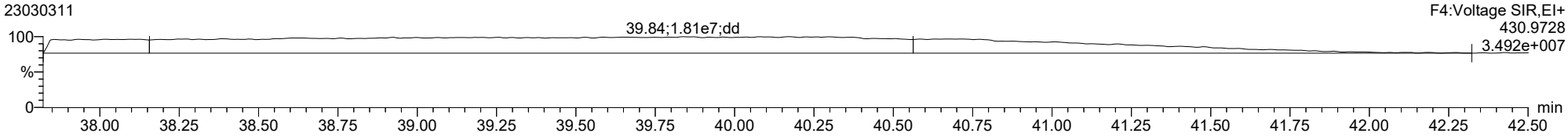

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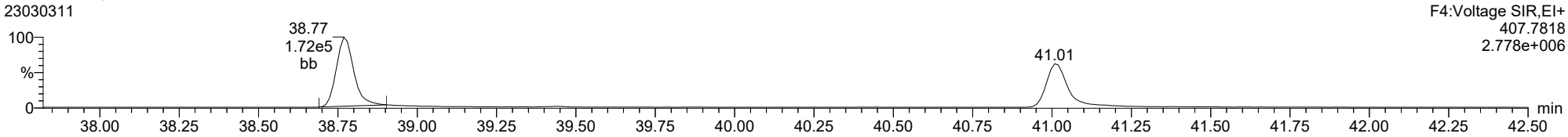

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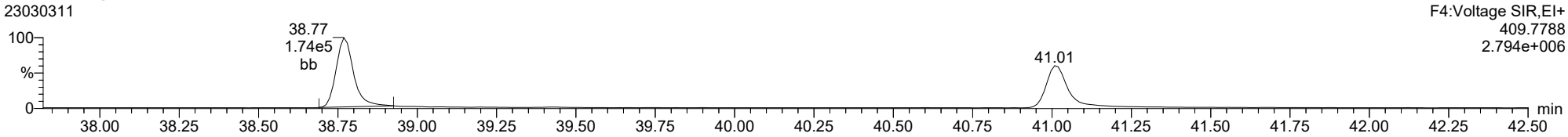

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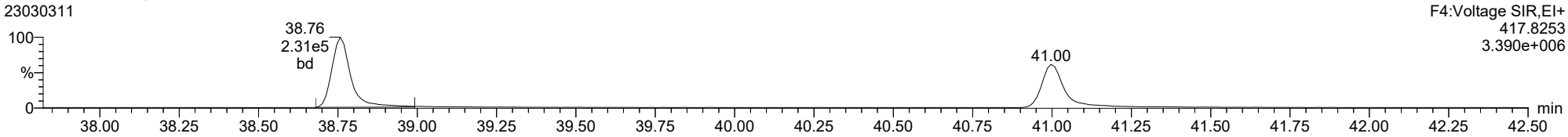

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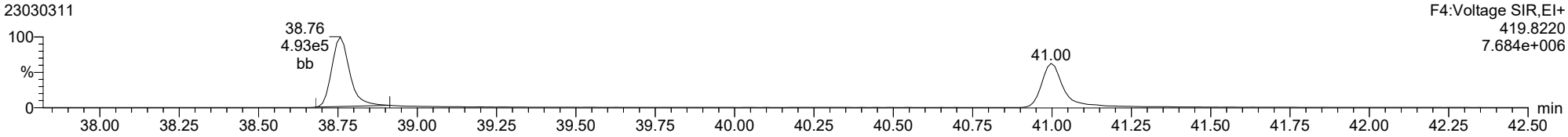

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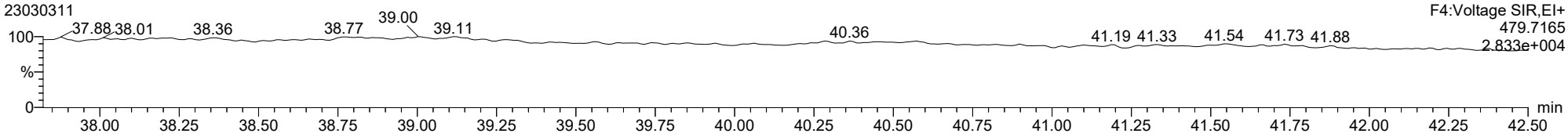

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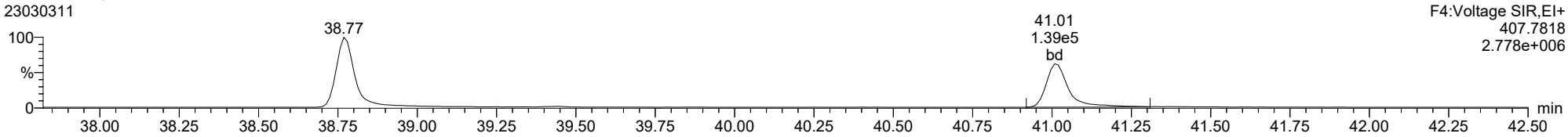

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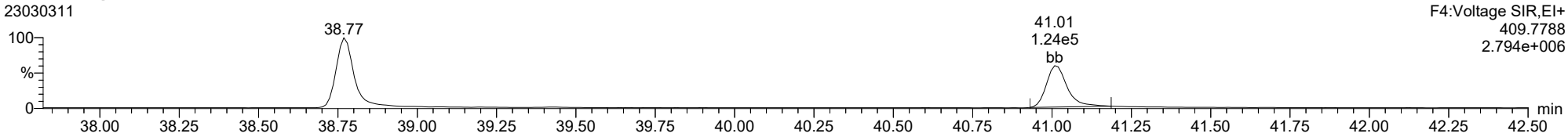

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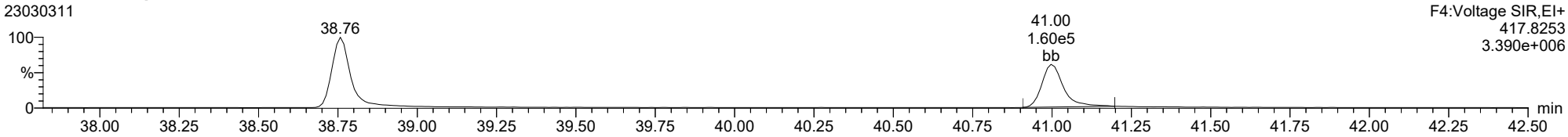

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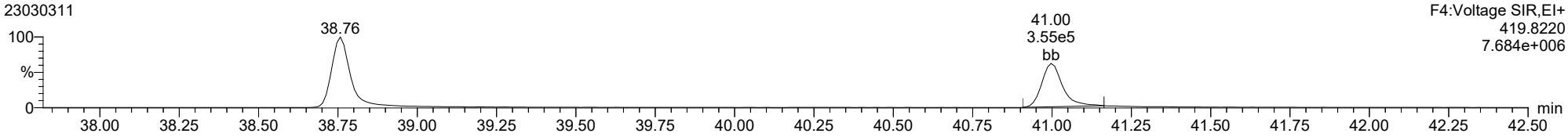
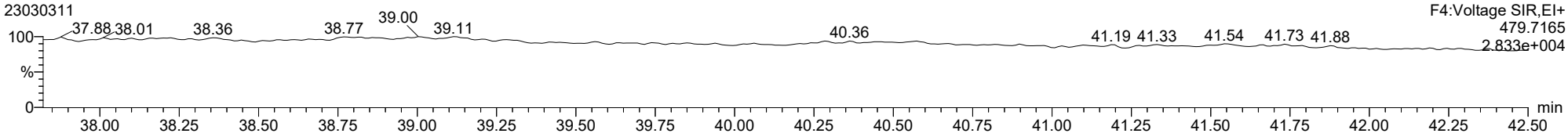


FUNCTION4 NCDPE



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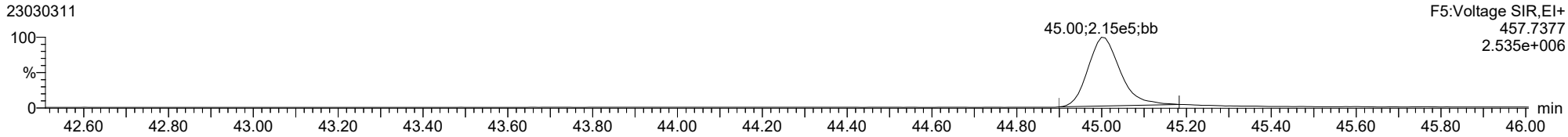

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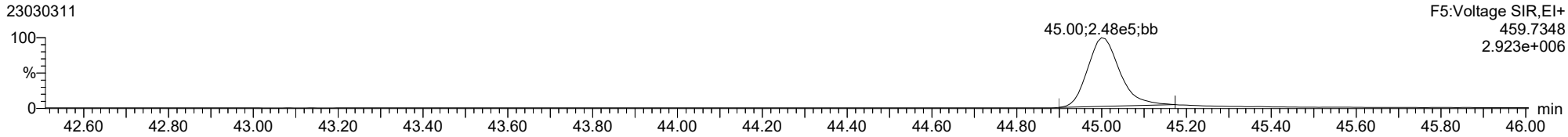

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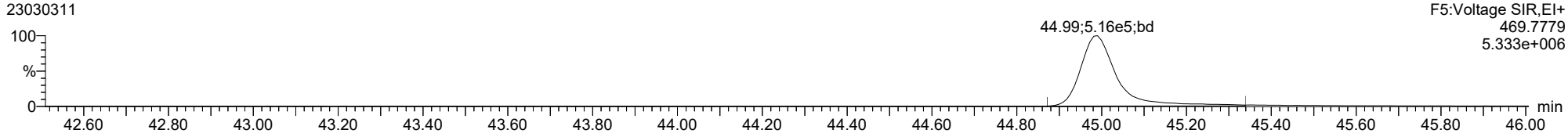

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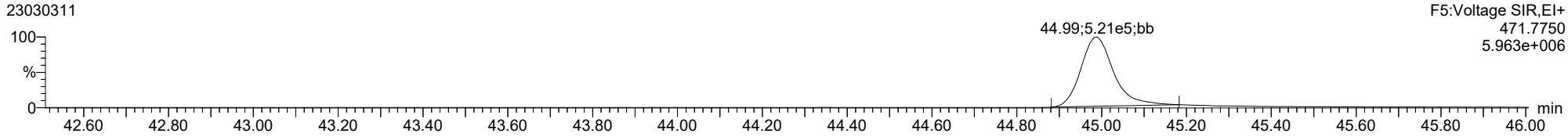

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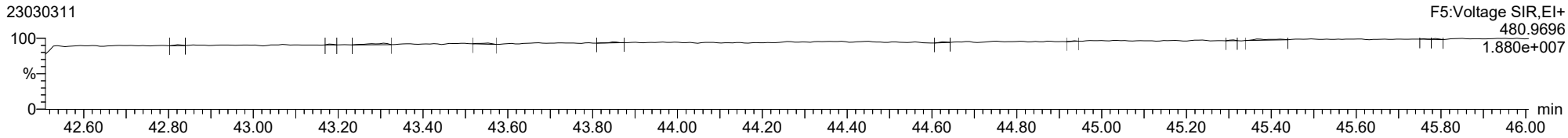

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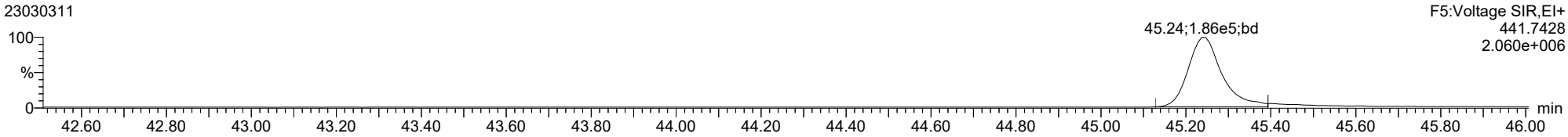

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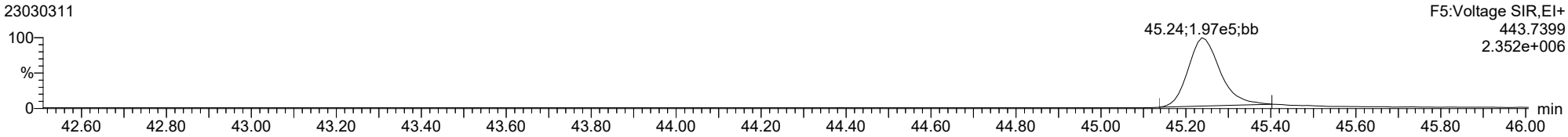
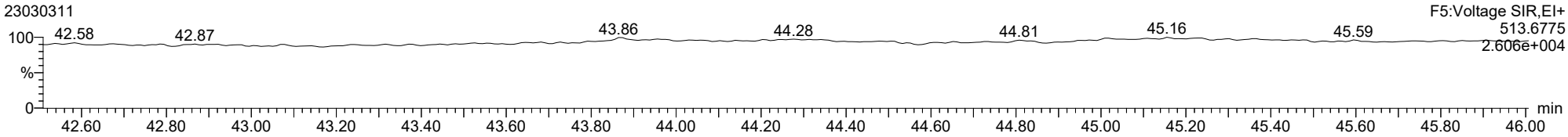


FUNCTION5 DCDPE



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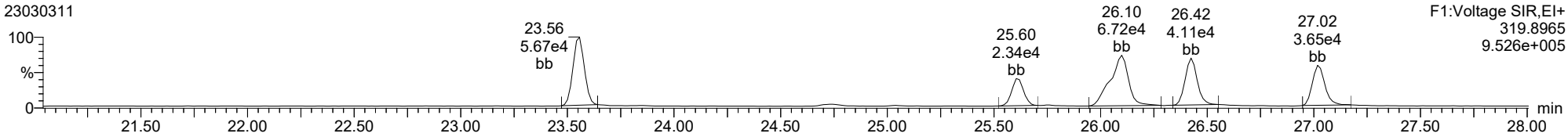

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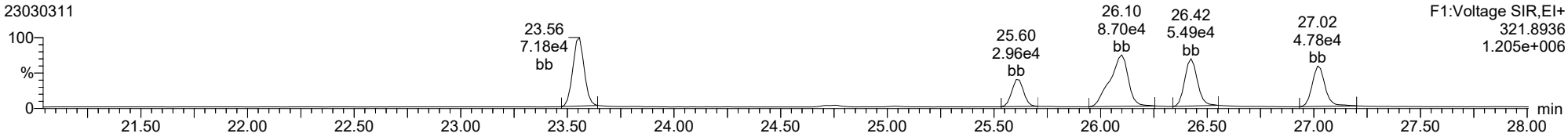

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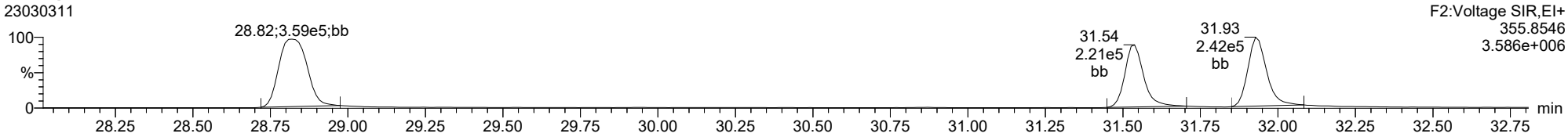

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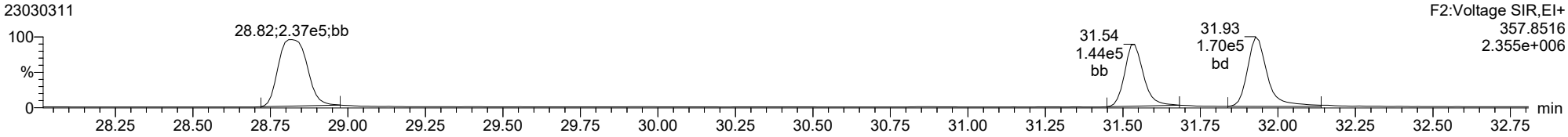

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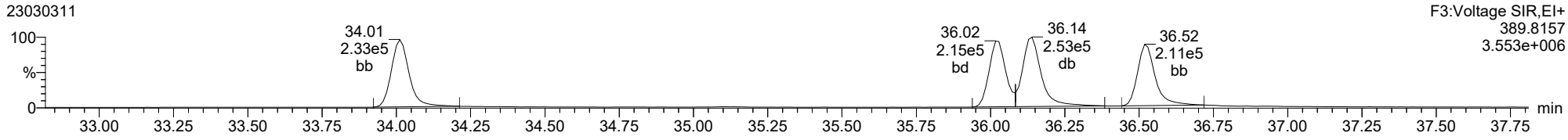

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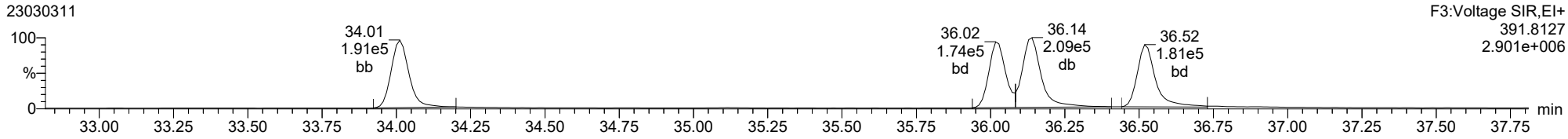

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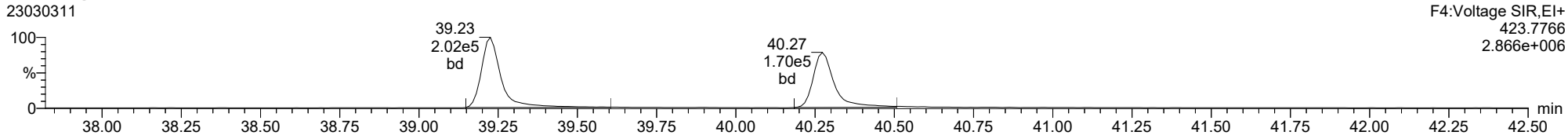

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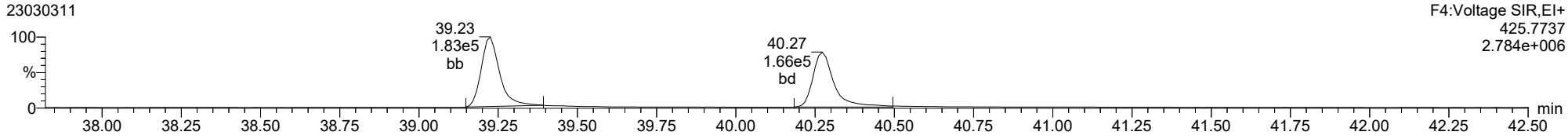

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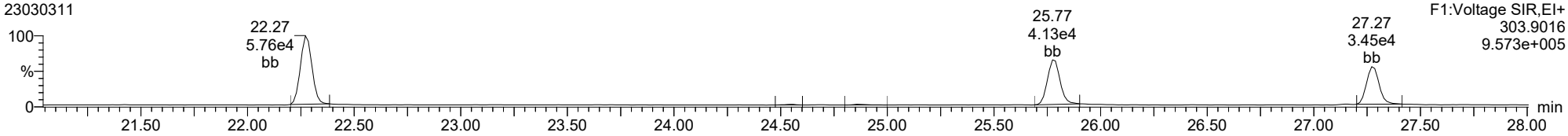

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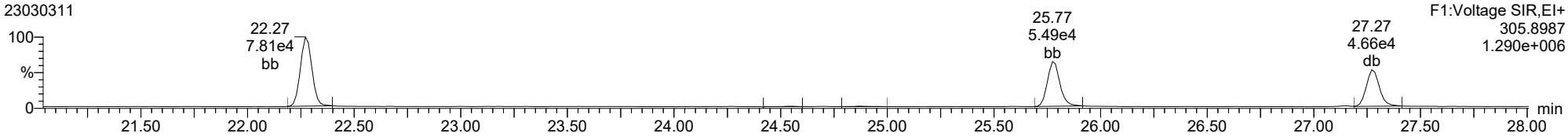

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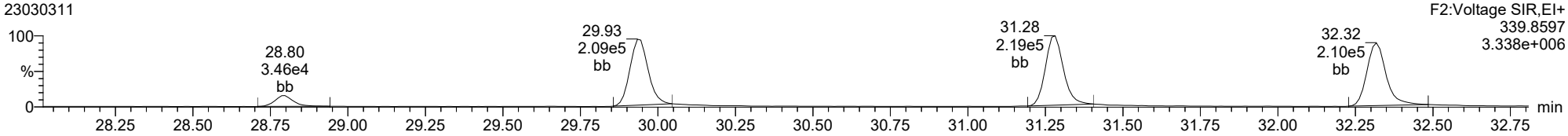

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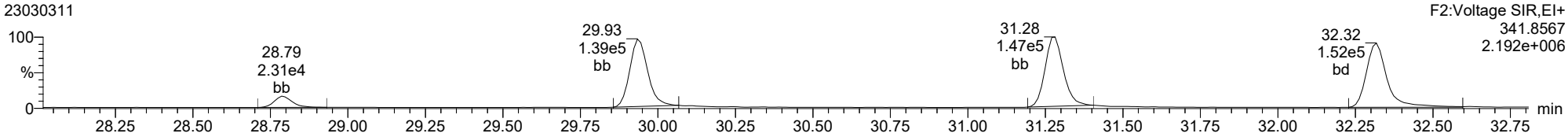

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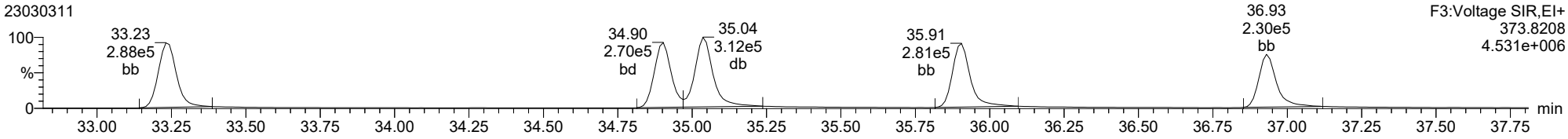

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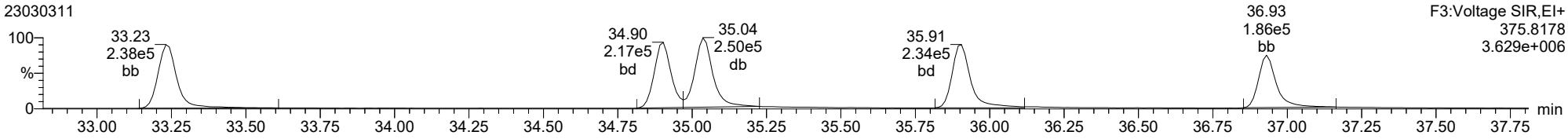

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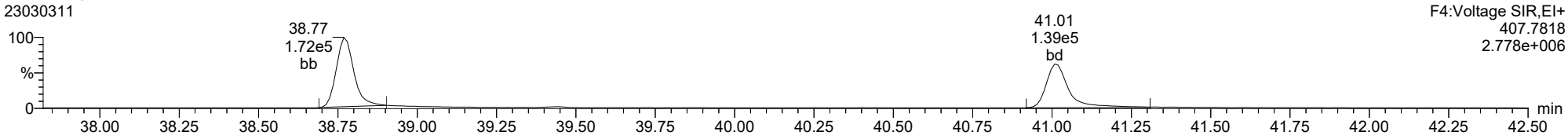

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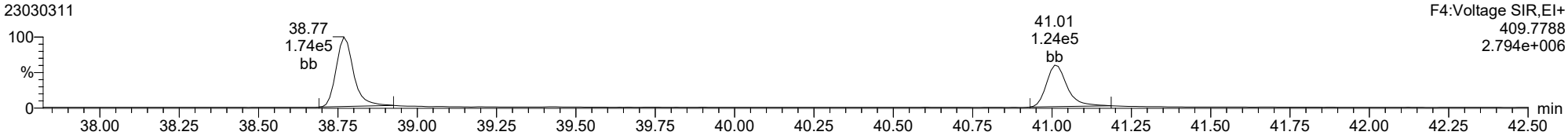

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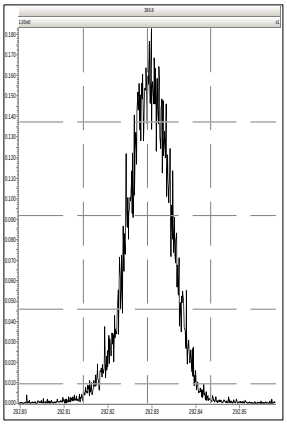

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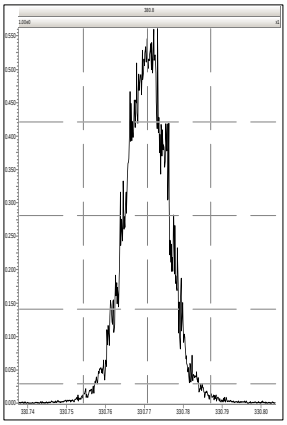

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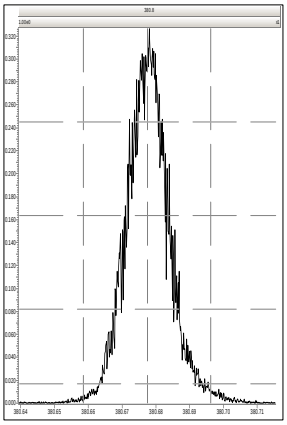

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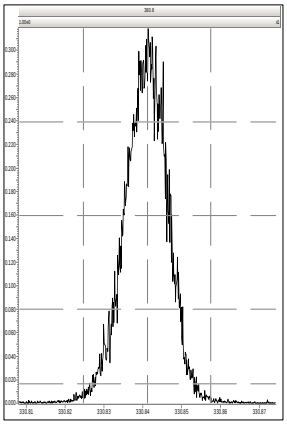

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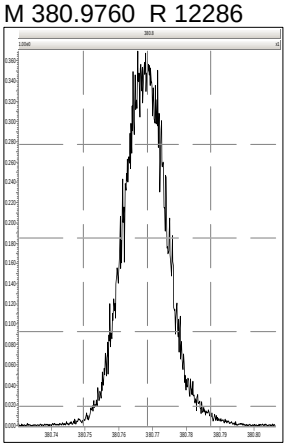

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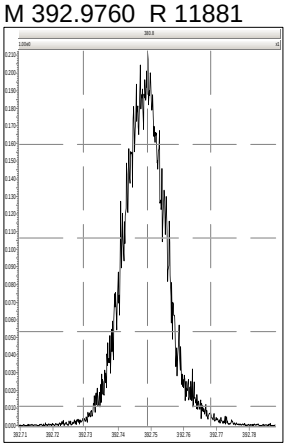

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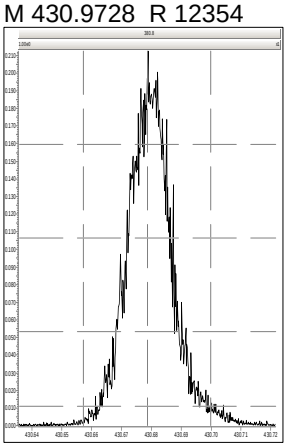

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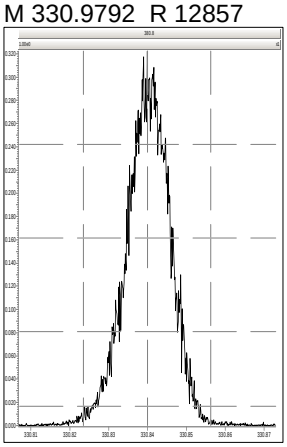

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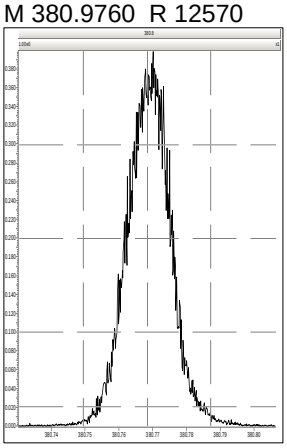

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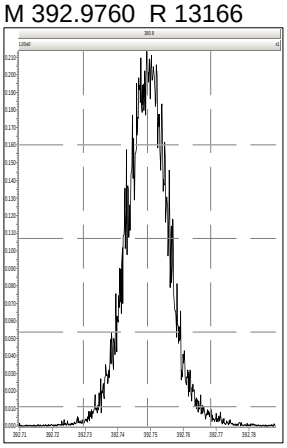

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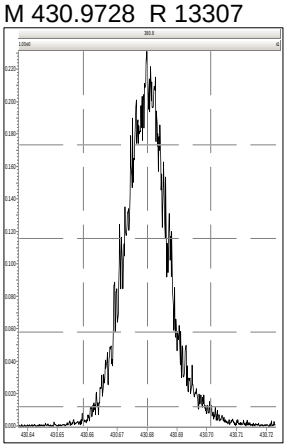
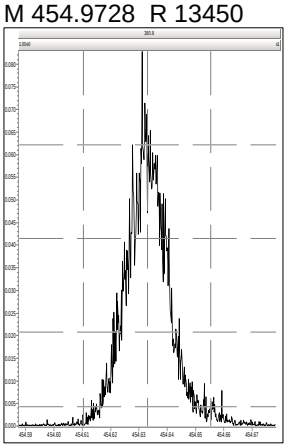
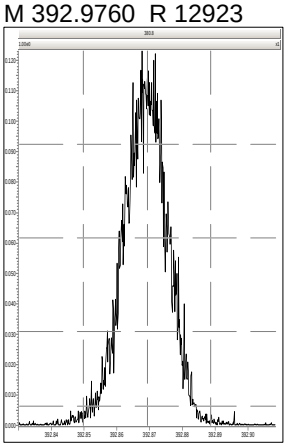


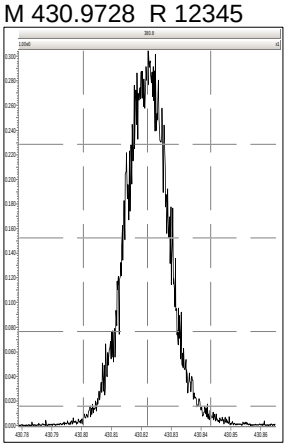
M 454.9728 R 13450



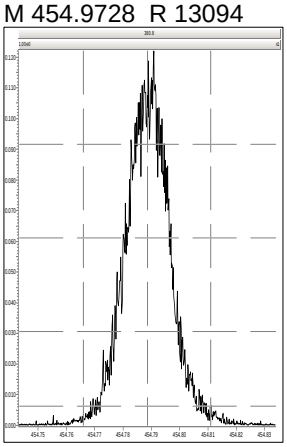
M 392.9760 R 12923



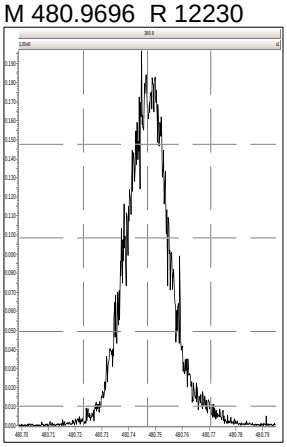
M 430.9728 R 12345



M 454.9728 R 13094

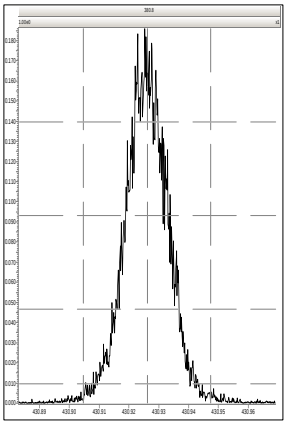


M 480.9696 R 12230

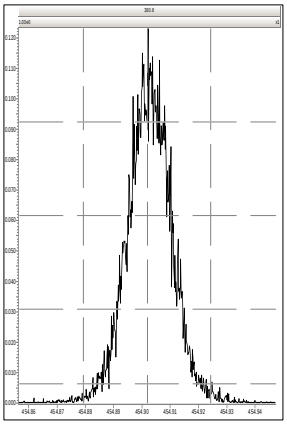


Printed: Friday, March 03, 2023 18:18:18 Pacific Standard Time

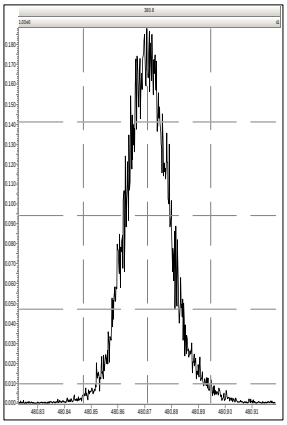
M 430.9728 R 12854



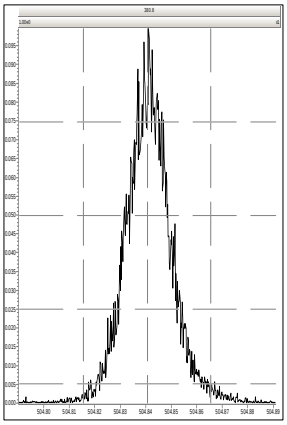
M 454.9728 R 13400



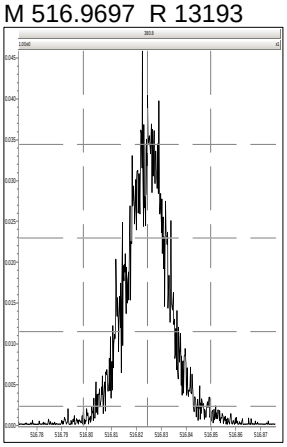
M 480.9696 R 11904

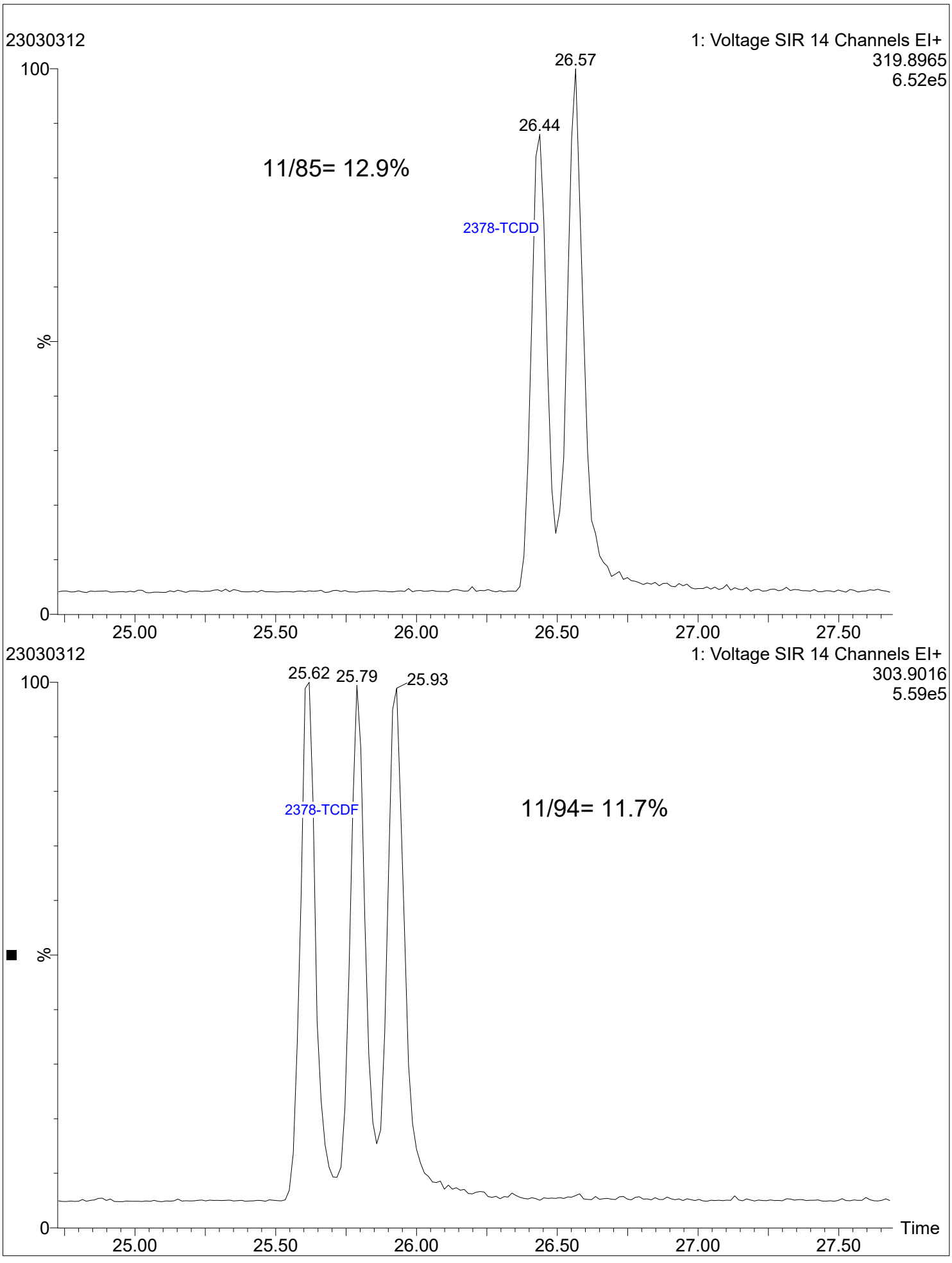


M 504.9696 R 12168



M 516.9697 R 13193




23030312
1: Voltage SIR 14 Channels EI+
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6.52e5
26.57
26.44
11/85= 12.9%
2378-TCDD
100
%
0
25.00
25.50
26.00
26.50
27.00
27.50
23030312
1: Voltage SIR 14 Channels EI+
303.9016
5.59e5
25.62
25.79
25.93
2378-TCDF
11/94= 11.7%
100
%
0
Time
25.00
25.50
26.00
26.50
27.00
27.50

Analytical Resources, LLC
Analytical Chemists and Consultants

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 1613B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Calibration: GC00015
Sequence: SLC0045

SDG: 23C0071
Project: AOC5 MR Phase 1
Laboratory ID: SLC0045-SCV1
Sequence Name: ICVCW
Standard ID: H008219

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
2,3,7,8-TCDF	10.000	9.84	-1.6	
2,3,7,8-TCDD	10.000	9.81	-1.9	
1,2,3,7,8-PeCDF	50.000	51.4	2.8	
2,3,4,7,8-PeCDF	50.000	49.0	-2.0	
1,2,3,7,8-PeCDD	50.000	48.5	-2.9	
1,2,3,4,7,8-HxCDF	50.000	48.2	-3.5	
1,2,3,6,7,8-HxCDF	50.000	48.0	-4.0	
2,3,4,6,7,8-HxCDF	50.000	50.2	0.4	
1,2,3,7,8,9-HxCDF	50.000	49.1	-1.8	
1,2,3,4,7,8-HxCDD	50.000	50.8	1.6	
1,2,3,6,7,8-HxCDD	50.000	50.2	0.3	
1,2,3,7,8,9-HxCDD	50.000	51.6	3.2	
1,2,3,4,6,7,8-HpCDF	50.000	51.8	3.7	
1,2,3,4,7,8,9-HpCDF	50.000	48.5	-3.1	
1,2,3,4,6,7,8-HpCDD	50.000	49.2	-1.6	
OCDF	100.00	104	3.5	
OCDD	100.00	99.4	-0.6	
13C12-2,3,7,8-TCDF	100.00	96.9	-3.1	
13C12-2,3,7,8-TCDD	100.00	96.6	-3.4	
13C12-1,2,3,7,8-PeCDF	100.00	73.2	-26.8	
13C12-2,3,4,7,8-PeCDF	100.00	75.9	-24.1	
13C12-1,2,3,7,8-PeCDD	100.00	76.6	-23.4	
13C12-1,2,3,4,7,8-HxCDF	100.00	93.0	-7.0	
13C12-1,2,3,6,7,8-HxCDF	100.00	98.0	-2.0	
13C12-2,3,4,6,7,8-HxCDF	100.00	93.4	-6.6	
13C12-1,2,3,7,8,9-HxCDF	100.00	97.9	-2.1	
13C12-1,2,3,4,7,8-HxCDD	100.00	95.9	-4.1	
13C12-1,2,3,6,7,8-HxCDD	100.00	97.7	-2.3	
13C12-1,2,3,4,6,7,8-HpCDF	100.00	102	2.1	
13C12-1,2,3,4,7,8,9-HpCDF	100.00	104	4.0	
13C12-1,2,3,4,6,7,8-HpCDD	100.00	102	2.5	
13C12-OCDD	200.00	162	-19.2	
37Cl4-2,3,7,8-TCDD	10.000	8.71	-12.9	

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 1613B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Calibration: GC00015
Sequence: SLC0045

SDG: 23C0071
Project: AOC5 MR Phase 1
Laboratory ID: SLC0045-SCV1
Sequence Name: ICVCW
Standard ID: H008219

* Indicates values outside of QC limits

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 1613B

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GC00015
Laboratory ID: SLC0045-SCV1
Sequence: SLC0045
Standard ID: H008219

ANALYTE	EXPECTED (ng/mL)	FOUND (ng/mL)	% DRIFT	QC LIMIT
OCDF	100.00	104	3.5	
OCDD	100.00	99.4	-0.6	
13C12-2,3,7,8-TCDF	100.00	96.9	-3.1	
13C12-2,3,7,8-TCDD	100.00	96.6	-3.4	
13C12-1,2,3,7,8-PeCDF	100.00	73.2	-26.8	
13C12-2,3,4,7,8-PeCDF	100.00	75.9	-24.1	
13C12-1,2,3,7,8-PeCDD	100.00	76.6	-23.4	
13C12-1,2,3,4,7,8-HxCDF	100.00	93.0	-7.0	
13C12-1,2,3,6,7,8-HxCDF	100.00	98.0	-2.0	
13C12-2,3,4,6,7,8-HxCDF	100.00	93.4	-6.6	
13C12-1,2,3,7,8,9-HxCDF	100.00	97.9	-2.1	
13C12-1,2,3,4,7,8-HxCDD	100.00	95.9	-4.1	
13C12-1,2,3,6,7,8-HxCDD	100.00	97.7	-2.3	
13C12-1,2,3,4,6,7,8-HpCDF	100.00	102	2.1	
13C12-1,2,3,4,7,8,9-HpCDF	100.00	104	4.0	
13C12-1,2,3,4,6,7,8-HpCDD	100.00	102	2.5	
13C12-OCDD	200.00	162	-19.2	
37Cl4-2,3,7,8-TCDD	10.000	8.71	-12.9	

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 1613B

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	AUTOSPEC01	Calibration:	GC00015
Lab File ID:	23030302	Calibration Date:	03/03/2023
Sequence:	SLC0045	Injection Date:	03/03/23
Lab Sample ID:	SLC0045-ICV1	Injection Time:	09:51
Sequence Name:	CS3W1		

		CONC. (ng/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
2,3,7,8-TCDF	A	10.000	9.55	0.7015272	0.6699659		-4.5	+/-16
2,3,7,8-TCDD	A	10.000	9.45	1.1486620	1.0855020		-5.5	+/-22
1,2,3,7,8-PeCDF	A	50.000	49.6	0.6792300	0.6743560		-0.7	+/-18
2,3,4,7,8-PeCDF	A	50.000	47.5	0.7861704	0.7472986		-4.9	+/-18
1,2,3,7,8-PeCDD	A	50.000	49.7	1.0218450	1.0147700		-0.7	+/-22
1,2,3,4,7,8-HxCDF	A	50.000	47.1	1.1660380	1.0988190		-5.8	+/-10
1,2,3,6,7,8-HxCDF	A	50.000	49.6	1.0907410	1.0813380		-0.9	+/-12
2,3,4,6,7,8-HxCDF	A	50.000	49.3	1.1396990	1.1246750		-1.3	+/-12
1,2,3,7,8,9-HxCDF	A	50.000	47.0	1.1370930	1.0679460		-6.1	+/-10
1,2,3,4,7,8-HxCDD	A	50.000	50.1	0.9955689	0.9966266		0.1	+/-22
1,2,3,6,7,8-HxCDD	A	50.000	49.6	1.0009380	0.9938861		-0.7	+/-22
1,2,3,7,8,9-HxCDD	A	50.000	54.2	0.9071139	0.9838286		8.5	+/-18
1,2,3,4,6,7,8-HpCDF	A	50.000	47.5	1.0029930	0.9526502		-5.0	+/-10
1,2,3,4,7,8,9-HpCDF	A	50.000	50.2	0.9531152	0.9573187		0.4	+/-14
1,2,3,4,6,7,8-HpCDD	A	50.000	47.6	1.0390130	0.9895371		-4.8	+/-14
OCDF	A	100.00	88.6	0.7778078	0.6890651		-11.4	+/-37
OCDD	A	100.00	98.4	0.9199537	0.9055309		-1.6	+/-21
13C12-2,3,7,8-TCDF	A	100.00	94.0	1.6201960	1.5232274		-6.0	+/-29
13C12-2,3,7,8-TCDD	A	100.00	102	1.1524090	1.1727116		1.8	+/-18
13C12-1,2,3,7,8-PeCDF	A	100.00	92.2	1.2404520	1.1438587		-7.8	+/-24
13C12-2,3,4,7,8-PeCDF	A	100.00	87.6	1.1177860	0.9791895		-12.4	+/-23
13C12-1,2,3,7,8-PeCDD	A	100.00	84.3	0.8288129	0.6985475		-15.7	+/-38
13C12-1,2,3,4,7,8-HxCDF	A	100.00	84.0	1.1683050	0.9815313		-16.0	+/-24
13C12-1,2,3,6,7,8-HxCDF	A	100.00	74.6	1.3864660	1.0348865		-25.4	+/-30
13C12-2,3,4,6,7,8-HxCDF	A	100.00	88.7	1.1292560	1.0010969		-11.3	+/-27
13C12-1,2,3,7,8,9-HxCDF	A	100.00	99.9	0.9317541	0.9305560		-0.1	+/-26
13C12-1,2,3,4,7,8-HxCDD	A	100.00	93.5	0.9950393	0.9299453		-6.5	+/-15
13C12-1,2,3,6,7,8-HxCDD	A	100.00	86.9	1.1566890	1.0052205		-13.1	+/-15
13C12-1,2,3,4,6,7,8-HpCDF	A	100.00	95.3	0.8952017	0.8530837		-4.7	+/-22
13C12-1,2,3,4,7,8,9-HpCDF	A	100.00	98.7	0.7697516	0.7594900		-1.3	+/-23

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 1613B

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	AUTOSPEC01	Calibration:	GC00015
Lab File ID:	23030302	Calibration Date:	03/03/2023
Sequence:	SLC0045	Injection Date:	03/03/23
Lab Sample ID:	SLC0045-ICV1	Injection Time:	09:51
Sequence Name:	CS3W1		

		CONC. (ng/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
13C12-1,2,3,4,6,7,8-HpCDD	A	100.00	105	0.8401226	0.8828452		5.1	+/-28
13C12-OCDD	A	200.00	214	0.7674714	0.8220320		7.1	+/-52
37Cl4-2,3,7,8-TCDD	A	10.000	9.05	1.2878040	1.1649542		-9.5	

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 1613B

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	AUTOSPEC01	Calibration:	GC00015
Lab File ID:	23042402	Calibration Date:	03/03/2023
Sequence:	SLD0330	Injection Date:	04/24/23
Lab Sample ID:	SLD0330-ICV1	Injection Time:	14:09
Sequence Name:	CS3H1		

		CONC. (ng/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
2,3,7,8-TCDF	A	10.000	10.4	0.7015272	0.7264294		3.5	+/-16
2,3,7,8-TCDD	A	10.000	9.66	1.1486620	1.1099480		-3.4	+/-22
1,2,3,7,8-PeCDF	A	50.000	55.8	0.6792300	0.7579148		11.6	+/-18
2,3,4,7,8-PeCDF	A	50.000	56.0	0.7861704	0.8797639		11.9	+/-18
1,2,3,7,8-PeCDD	A	50.000	51.7	1.0218450	1.0576040		3.5	+/-22
1,2,3,4,7,8-HxCDF	A	50.000	48.2	1.1660380	1.1236810		-3.6	+/-10
1,2,3,6,7,8-HxCDF	A	50.000	54.2	1.0907410	1.1813550		8.3	+/-12
2,3,4,6,7,8-HxCDF	A	50.000	52.2	1.1396990	1.1896070		4.4	+/-12
1,2,3,7,8,9-HxCDF	A	50.000	49.4	1.1370930	1.1231330		-1.2	+/-10
1,2,3,4,7,8-HxCDD	A	50.000	47.9	0.9955689	0.9528554		-4.3	+/-22
1,2,3,6,7,8-HxCDD	A	50.000	51.7	1.0009380	1.0355710		3.5	+/-22
1,2,3,7,8,9-HxCDD	A	50.000	50.9	0.9071139	0.9233348		1.8	+/-18
1,2,3,4,6,7,8-HpCDF	A	50.000	48.1	1.0029930	0.9644220		-3.8	+/-10
1,2,3,4,7,8,9-HpCDF	A	50.000	50.8	0.9531152	0.9676364		1.5	+/-14
1,2,3,4,6,7,8-HpCDD	A	50.000	49.8	1.0390130	1.0343960		-0.4	+/-14
OCDF	A	100.00	120	0.7778078	0.9302962		19.6	+/-37
OCDD	A	100.00	100	0.9199537	0.9219826		0.2	+/-21
13C12-2,3,7,8-TCDF	A	100.00	95.5	1.6201960	1.5474233		-4.5	+/-29
13C12-2,3,7,8-TCDD	A	100.00	95.8	1.1524090	1.1041460		-4.2	+/-18
13C12-1,2,3,7,8-PeCDF	A	100.00	104	1.2404520	1.2960622		4.5	+/-24
13C12-2,3,4,7,8-PeCDF	A	100.00	102	1.1177860	1.1400831		2.0	+/-23
13C12-1,2,3,7,8-PeCDD	A	100.00	85.1	0.8288129	0.7051279		-14.9	+/-38
13C12-1,2,3,4,7,8-HxCDF	A	100.00	93.2	1.1683050	1.0886806		-6.8	+/-24
13C12-1,2,3,6,7,8-HxCDF	A	100.00	87.5	1.3864660	1.2137673		-12.5	+/-30
13C12-2,3,4,6,7,8-HxCDF	A	100.00	92.9	1.1292560	1.0495020		-7.1	+/-27
13C12-1,2,3,7,8,9-HxCDF	A	100.00	92.4	0.9317541	0.8608178		-7.6	+/-26
13C12-1,2,3,4,7,8-HxCDD	A	100.00	97.4	0.9950393	0.9690900		-2.6	+/-15
13C12-1,2,3,6,7,8-HxCDD	A	100.00	91.0	1.1566890	1.0527379		-9.0	+/-15
13C12-1,2,3,4,6,7,8-HpCDF	A	100.00	117	0.8952017	1.0492407		17.2	+/-22
13C12-1,2,3,4,7,8,9-HpCDF	A	100.00	105	0.7697516	0.8053194		4.6	+/-23

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 1613B

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	AUTOSPEC01	Calibration:	GC00015
Lab File ID:	23042402	Calibration Date:	03/03/2023
Sequence:	SLD0330	Injection Date:	04/24/23
Lab Sample ID:	SLD0330-ICV1	Injection Time:	14:09
Sequence Name:	CS3H1		

		CONC. (ng/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
13C12-1,2,3,4,6,7,8-HpCDD	A	100.00	92.0	0.8401226	0.7732523		-8.0	+/-28
13C12-OCDD	A	200.00	201	0.7674714	0.7729152		0.7	+/-52
37Cl4-2,3,7,8-TCDD	A	10.000	8.51	1.2878040	1.0962038		-14.9	

* Values outside of QC limits

Dataset: T:\Autospec\Processed Data Batch\230424D1.qld
Last Altered: Tuesday, April 25, 2023 10:49:58 Pacific Daylight Time
Printed: Tuesday, April 25, 2023 11:17:39 Pacific Daylight Time

Method: T:\Autospec\Methods\Dioxin230424.mdb 25 Apr 2023 07:59:40
Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 11:57:27

ID: CS3H1, Name: 23042402, Date: 24-Apr-2023, Time: 14:09:14, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	25.732	1.000	3.468e4	4.452e4	0.702	0.779	0.770	1087	2280	5.16e5	6.56e5	474.4	287.6	NO	bb	bb	10.355
12378-PeCDF	29.878	1.001	2.071e5	1.390e5	0.679	1.490	1.550	3409	2638	3.08e6	2.08e6	903.6	786.8	NO	bb	bb	55.792
23478-PeCDF	31.215	1.000	2.162e5	1.372e5	0.786	1.576	1.550	3409	2638	3.23e6	2.02e6	946.6	765.4	NO	bb	bb	55.952
123478-HxCDF	34.835	1.001	1.891e5	1.496e5	1.166	1.263	1.240	2594	2516	2.79e6	2.21e6	1075.1	879.1	NO	bd	bd	48.184
234678-HxCDF	35.838	1.001	1.903e5	1.554e5	1.140	1.224	1.240	2594	2516	2.66e6	2.10e6	1026.6	834.6	NO	bd	bb	52.190
123678-HxCDF	34.969	1.000	2.156e5	1.814e5	1.091	1.188	1.240	2594	2516	2.90e6	2.39e6	1118.5	948.0	NO	db	dd	54.154
123789-HxCDF	36.863	1.000	1.522e5	1.155e5	1.137	1.318	1.240	2594	2516	1.92e6	1.55e6	741.3	615.9	NO	bb	bb	49.386
1234678-HpCDF	38.701	1.000	1.420e5	1.382e5	1.003	1.028	1.050	2795	2566	2.38e6	2.27e6	850.0	885.5	NO	bb	bb	48.077
1234789-HpCDF	40.930	1.000	1.112e5	1.046e5	0.953	1.063	1.050	2795	2566	1.49e6	1.41e6	532.1	551.2	NO	bb	bb	50.762
OCDF	45.134	1.006	1.985e5	1.996e5	0.778	0.995	0.890	1380	1957	2.07e6	2.19e6	1498.9	1117.6	NO	bd	bb	119.605
2378-TCDD	26.368	1.000	3.904e4	4.730e4	1.149	0.825	0.770	1387	1505	5.44e5	6.74e5	392.2	447.6	NO	bd	bb	9.663
12378-PeCDD	31.471	1.000	1.597e5	1.030e5	1.022	1.550	1.550	2074	2271	2.38e6	1.52e6	1146.3	668.7	NO	bb	bb	51.750
123478-HxCDD	35.949	1.000	1.410e5	1.146e5	0.996	1.230	1.240	2161	2161	2.14e6	1.73e6	990.8	800.8	NO	bd	bd	47.855
123678-HxCDD	36.072	1.001	1.665e5	1.353e5	1.001	1.231	1.240	2161	2161	2.26e6	1.85e6	1047.4	854.9	NO	db	dd	51.730
123789-HxCDD	36.451	1.011	1.366e5	1.219e5	0.907	1.121	1.240	2161	2161	2.02e6	1.66e6	933.6	769.4	NO	bb	dd	50.894
1234678-HpCDD	40.194	1.000	1.103e5	1.112e5	1.039	0.992	1.050	2574	1959	1.55e6	1.53e6	602.7	780.4	NO	bb	bb	49.778
OCDD	44.896	1.000	1.901e5	2.045e5	0.920	0.930	0.890	2810	1828	2.04e6	2.29e6	724.9	1251.4	NO	bd	bb	100.221
13C-2378-TCDF	25.718	1.007	4.704e5	6.199e5	1.620	0.759	0.770	1522	1099	6.36e6	8.47e6	4177.8	7708.4	NO	bb	bd	95.508
13C-12378-PeCDF	29.855	1.169	5.554e5	3.578e5	1.240	1.553	1.550	3675	3593	7.32e6	4.78e6	1992.2	1331.6	NO	bd	bd	104.483
13C-23478-PeCDF	31.203	1.222	4.844e5	3.189e5	1.118	1.519	1.550	3675	3593	6.76e6	4.36e6	1839.4	1214.0	NO	bb	bb	101.995
13C-123478-HxCDF	34.813	0.955	2.041e5	3.988e5	1.168	0.512	0.510	2383	2771	2.98e6	5.82e6	1249.1	2099.1	NO	bd	bd	93.185
13C-123678-HxCDF	34.958	0.959	2.282e5	4.439e5	1.386	0.514	0.510	2383	2771	3.21e6	6.20e6	1348.4	2238.5	NO	db	db	87.544
13C-234678-HxCDF	35.816	0.983	1.988e5	3.823e5	1.129	0.520	0.510	2383	2771	2.90e6	5.58e6	1216.0	2015.3	NO	bb	bb	92.937
13C-123789-HxCDF	36.852	1.011	1.621e5	3.146e5	0.932	0.515	0.510	2383	2771	2.21e6	4.28e6	925.9	1543.7	NO	bb	bb	92.387
13C-1234678-HpCDF	38.690	1.062	1.802e5	4.008e5	0.895	0.449	0.440	2165	3100	2.67e6	6.02e6	1231.6	1942.7	NO	bb	bb	117.207
13C-1234789-HpCDF	40.918	1.123	1.336e5	3.123e5	0.770	0.428	0.440	2165	3100	1.71e6	3.92e6	788.7	1265.4	NO	bd	bb	104.621
13C-1234-TCDD	25.534	0.000	3.133e5	3.913e5	1.000	0.801	0.770	2069	1262	4.54e6	5.72e6	2194.4	4535.0	NO	bb	bb	100.000
13C-2378-TCDD	26.353	1.032	3.450e5	4.329e5	1.152	0.797	0.770	2069	1262	4.90e6	6.17e6	2367.8	4891.2	NO	bb	bb	95.812
13C-12378-PeCDD	31.459	1.232	3.171e5	1.797e5	0.829	1.765	1.550	1470	1312	4.05e6	2.47e6	2756.3	1879.9	NO	bb	bb	85.077
13C-123478-HxCDD	35.938	0.986	3.007e5	2.359e5	0.995	1.275	1.240	2947	2079	4.77e6	3.68e6	1618.4	1767.8	NO	bd	bd	97.392
13C-123678-HxCDD	36.050	0.989	3.210e5	2.620e5	1.157	1.225	1.240	2947	2079	4.65e6	3.75e6	1576.7	1804.1	NO	db	db	91.013
13C-1234678-HpCDD	40.183	1.103	2.255e5	2.027e5	0.840	1.112	1.050	2003	2247	2.90e6	2.64e6	1447.5	1174.0	NO	bd	bb	92.040
13C-OCDD	44.878	1.232	4.078e5	4.482e5	0.767	0.910	0.890	1810	1396	4.21e6	4.62e6	2323.0	3312.4	NO	bd	bd	201.419
13C-123789-HxCDD	36.439	0.000	3.114e5	2.424e5	1.000	1.285	1.240	2947	2079	4.48e6	3.53e6	1521.7	1699.4	NO	bb	bb	100.000
37CL-2378-TCDD	26.368	1.033	7.724e4		1.288			2226		1.08e6		484.4			bb		8.512

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Last Altered: Tuesday, April 25, 2023 10:49:58 Pacific Daylight Time
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ID: CS3H1, Name: 23042402, Date: 24-Apr-2023, Time: 14:09:14, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF	22.229	0.864	4.700e4	6.185e4	0.802	0.760	0.770	1087	2280	7.11e5	9.51e5	653.8	417.4	NO	bb	bb	12.456
1289-TCDF	27.229	1.059	3.297e4	3.925e4	0.678	0.840	0.770	1087	2280	4.59e5	5.49e5	422.2	240.7	NO	bb	bb	9.770
13468-PECDF	27.074	0.907	3.285e5	2.157e5	1.246	1.523	1.550	672	1051	4.84e6	3.20e6	7210.3	3042.6	NO	bb	bb	47.812
12389-PECDF	32.251	1.080	1.906e5	1.217e5	0.496	1.566	1.550	3409	2638	2.65e6	1.69e6	777.1	638.9	NO	bb	bb	68.890
123468-HXCDF	33.164	0.953	2.103e5	1.656e5	1.169	1.270	1.240	2594	2516	3.01e6	2.37e6	1159.3	940.4	NO	bb	bb	53.332
1368-TCDD	23.500	0.892	3.993e4	5.082e4	1.015	0.786	0.770	1387	1505	5.99e5	7.37e5	432.1	489.9	NO	bb	bd	11.488
1289-TCDD	26.975	1.024	3.283e4	3.934e4	0.909	0.835	0.770	1387	1505	4.49e5	5.38e5	323.9	357.8	NO	bb	bd	10.210
12479-PECDD	28.753	0.914	2.954e5	1.977e5	2.301	1.494	1.550	2074	2271	2.84e6	1.84e6	1367.8	809.7	NO	bb	bb	43.119
12389-PECDD	31.872	1.013	1.820e5	1.160e5	1.184	1.570	1.550	2074	2271	2.56e6	1.65e6	1233.1	725.1	NO	bb	bb	50.670
124679-HXCDD	33.944	0.945	1.623e5	1.310e5	1.115	1.238	1.240	2161	2161	2.32e6	1.87e6	1074.8	867.2	NO	bb	bb	48.999
1234679-HPCDD	39.147	0.974	1.367e5	1.389e5	1.137	0.984	1.050	2574	1959	2.01e6	1.96e6	779.3	1001.4	NO	bb	bd	56.620
Total-tetrafurans			1.147e5		0.727			1087		1.68e6							32.581
Total-penta1			3.285e5					672		4.84e6							47.812
Total-pentafurans			6.501e5		0.654			3409		9.47e6							191.098
Total-hexafurans			9.574e5		1.141			2594		1.33e7							257.245
Total-heptafurans			2.535e5		0.978			2795		3.87e6							98.961
Total-Furans			2.503e6		0.922			1087		3.52e7							747.302
Total-tetradioxins			1.857e5		1.024			1387		2.44e6							52.605
Total-pentadioxins			6.371e5		1.502			2074		7.77e6							145.539
Total-hexadioxins			6.064e5		1.005			2161		8.75e6							199.478
Total-heptadioxins			2.470e5		1.088			2574		3.56e6							106.398
Total-Dioxins			1.866e6		1.130			1387		2.46e7							604.241
Total-TEQ			4.369e6					1387		5.98e7							1351.543
FUNCTION1 PFK			6.743e3					420852		4.79e5							
FUNCTION2 PFK			7.398e5					233034		1.70e7							0.000
FUNCTION3 PFK			0.000e0					242598		0.00e0							
FUNCTION4 PFK			2.668e5					289517		7.60e6							
FUNCTION5 PFK			0.000e0					147338		0.00e0							
FUNCTION1 HXCD...			2.149e2					667		3.51e3							0.000
FUNCTION1 HPCD...																	
FUNCTION2 HPCD...			1.384e3					1045		2.97e4							0.000
FUNCTION3 OCDPE			3.105e2					788		5.38e3							0.000
FUNCTION4 NCDPE			4.952e2					622		9.28e3							0.000
FUNCTION5 DCDPE			0.000e0					572		0.00e0							

Method: T:\Autospec\Methods\Dioxin230424.mdb 25 Apr 2023 07:59:40
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TF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.23	3.297e4	3.925e4	0.678	0.84	0.77	422.2	YES	NO	bb	bb	9.770
2	2378-TCDF	25.73	3.468e4	4.452e4	0.702	0.78	0.77	474.4	YES	NO	bb	bb	10.355
3	1368-TCDF	22.23	4.700e4	6.185e4	0.802	0.76	0.77	653.8	YES	NO	bb	bb	12.456

PP

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	13468-PECDF	27.07	3.285e5	2.157e5	1.246	1.52	1.55	7210.3	YES	NO	bb	bb	47.812

PF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12389-PECDF	32.25	1.906e5	1.217e5	0.496	1.57	1.55	777.1	YES	NO	bb	bb	68.890
2	23478-PeCDF	31.21	2.162e5	1.372e5	0.786	1.58	1.55	946.6	YES	NO	bb	bb	55.952
3	12378-PeCDF	29.88	2.071e5	1.390e5	0.679	1.49	1.55	903.6	YES	NO	bb	bb	55.792
4	Total-pentafurans	28.74	3.620e4	2.252e4	0.654	1.61	1.55	152.2	YES	NO	bb	bb	10.463

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	234678-HxCDF	35.84	1.903e5	1.554e5	1.140	1.22	1.24	1026.6	YES	NO	bd	bb	52.190
2	123678-HxCDF	34.97	2.156e5	1.814e5	1.091	1.19	1.24	1118.5	YES	NO	db	dd	54.154
3	123478-HxCDF	34.84	1.891e5	1.496e5	1.166	1.26	1.24	1075.1	YES	NO	bd	bd	48.184
4	123468-HXCDF	33.16	2.103e5	1.656e5	1.169	1.27	1.24	1159.3	YES	NO	bb	bb	53.332
5	123789-HxCDF	36.86	1.522e5	1.155e5	1.137	1.32	1.24	741.3	YES	NO	bb	bb	49.386

HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234789-HpCDF	40.93	1.112e5	1.046e5	0.953	1.06	1.05	532.1	YES	NO	bb	bb	50.762
2	Total-heptafurans	39.16	3.033e2	3.092e2	0.978	0.98	1.05	2.6	NO	NO	bb	dd	0.122
3	1234678-HpCDF	38.70	1.420e5	1.382e5	1.003	1.03	1.05	850.0	YES	NO	bb	bb	48.077

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Furans,TF,PP,PF,HF,HPF,OF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.23	3.297e4	3.925e4	0.678	0.84	0.77	422.2	YES	NO	bb	bb	9.770
2	2378-TCDF	25.73	3.468e4	4.452e4	0.702	0.78	0.77	474.4	YES	NO	bb	bb	10.355
3	1368-TCDF	22.23	4.700e4	6.185e4	0.802	0.76	0.77	653.8	YES	NO	bb	bb	12.456
4	12389-PECDF	32.25	1.906e5	1.217e5	0.496	1.57	1.55	777.1	YES	NO	bb	bb	68.890
5	23478-PeCDF	31.21	2.162e5	1.372e5	0.786	1.58	1.55	946.6	YES	NO	bb	bb	55.952
6	12378-PeCDF	29.88	2.071e5	1.390e5	0.679	1.49	1.55	903.6	YES	NO	bb	bb	55.792
7	Total-pentafurans	28.74	3.620e4	2.252e4	0.654	1.61	1.55	152.2	YES	NO	bb	bb	10.463
8	234678-HxCDF	35.84	1.903e5	1.554e5	1.140	1.22	1.24	1026.6	YES	NO	bd	bb	52.190
9	123678-HxCDF	34.97	2.156e5	1.814e5	1.091	1.19	1.24	1118.5	YES	NO	db	dd	54.154
10	123478-HxCDF	34.84	1.891e5	1.496e5	1.166	1.26	1.24	1075.1	YES	NO	bd	bd	48.184
11	123468-HXCDF	33.16	2.103e5	1.656e5	1.169	1.27	1.24	1159.3	YES	NO	bb	bb	53.332
12	123789-HxCDF	36.86	1.522e5	1.155e5	1.137	1.32	1.24	741.3	YES	NO	bb	bb	49.386
13	1234789-HpCDF	40.93	1.112e5	1.046e5	0.953	1.06	1.05	532.1	YES	NO	bb	bb	50.762
14	Total-heptafurans	39.16	3.033e2	3.092e2	0.978	0.98	1.05	2.6	NO	NO	bb	dd	0.122
15	1234678-HpCDF	38.70	1.420e5	1.382e5	1.003	1.03	1.05	850.0	YES	NO	bb	bb	48.077
16	OCDF	45.13	1.985e5	1.996e5	0.778	0.99	0.89	1498.9	YES	NO	bd	bb	119.605
17	13468-PECDF	27.07	3.285e5	2.157e5	1.246	1.52	1.55	7210.3	YES	NO	bb	bb	47.812

TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1368-TCDD	23.50	3.993e4	5.082e4	1.015	0.79	0.77	432.1	YES	NO	bb	bd	11.488
2	1289-TCDD	26.97	3.283e4	3.934e4	0.909	0.83	0.77	323.9	YES	NO	bb	bd	10.210
3	2378-TCDD	26.37	3.904e4	4.730e4	1.149	0.83	0.77	392.2	YES	NO	bd	bb	9.663
4	Total-tetradioxins	26.04	5.548e4	7.115e4	1.024	0.78	0.77	406.3	YES	NO	bb	bb	15.893
5	Total-tetradioxins	25.56	1.795e4	2.352e4	1.024	0.76	0.77	199.2	YES	NO	bb	bb	5.205
6	Total-tetradioxins	25.00	5.075e2	6.678e2	1.024	0.76	0.77	5.8	YES	NO	bb	bb	0.147

PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12389-PECDD	31.87	1.820e5	1.160e5	1.184	1.57	1.55	1233.1	YES	NO	bb	bb	50.670
2	12378-PeCDD	31.47	1.597e5	1.030e5	1.022	1.55	1.55	1146.3	YES	NO	bb	bb	51.750
3	12479-PECDD	28.75	2.954e5	1.977e5	2.301	1.49	1.55	1367.8	YES	NO	bb	bb	43.119

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HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	124679-HXCDD	33.94	1.623e5	1.310e5	1.115	1.24	1.24	1074.8	YES	NO	bb	bb	48.999
2	123789-HxCDD	36.45	1.366e5	1.219e5	0.907	1.12	1.24	933.6	YES	NO	bb	dd	50.894
3	123678-HxCDD	36.07	1.665e5	1.353e5	1.001	1.23	1.24	1047.4	YES	NO	db	dd	51.730
4	123478-HxCDD	35.95	1.410e5	1.146e5	0.996	1.23	1.24	990.8	YES	NO	bd	bd	47.855

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	40.19	1.103e5	1.112e5	1.039	0.99	1.05	602.7	YES	NO	bb	bb	49.778
2	1234679-HPCDD	39.15	1.367e5	1.389e5	1.137	0.98	1.05	779.3	YES	NO	bb	bd	56.620

Dioxins,TD,PD,HD,HPD,OD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1368-TCDD	23.50	3.993e4	5.082e4	1.015	0.79	0.77	432.1	YES	NO	bb	bd	11.488
2	1289-TCDD	26.97	3.283e4	3.934e4	0.909	0.83	0.77	323.9	YES	NO	bb	bd	10.210
3	2378-TCDD	26.37	3.904e4	4.730e4	1.149	0.83	0.77	392.2	YES	NO	bd	bb	9.663
4	Total-tetradioxins	26.04	5.548e4	7.115e4	1.024	0.78	0.77	406.3	YES	NO	bb	bb	15.893
5	Total-tetradioxins	25.56	1.795e4	2.352e4	1.024	0.76	0.77	199.2	YES	NO	bb	bb	5.205
6	Total-tetradioxins	25.00	5.075e2	6.678e2	1.024	0.76	0.77	5.8	YES	NO	bb	bb	0.147
7	12389-PECDD	31.87	1.820e5	1.160e5	1.184	1.57	1.55	1233.1	YES	NO	bb	bb	50.670
8	12378-PeCDD	31.47	1.597e5	1.030e5	1.022	1.55	1.55	1146.3	YES	NO	bb	bb	51.750
9	12479-PECDD	28.75	2.954e5	1.977e5	2.301	1.49	1.55	1367.8	YES	NO	bb	bb	43.119
10	124679-HXCDD	33.94	1.623e5	1.310e5	1.115	1.24	1.24	1074.8	YES	NO	bb	bb	48.999
11	123789-HxCDD	36.45	1.366e5	1.219e5	0.907	1.12	1.24	933.6	YES	NO	bb	dd	50.894
12	123678-HxCDD	36.07	1.665e5	1.353e5	1.001	1.23	1.24	1047.4	YES	NO	db	dd	51.730
13	123478-HxCDD	35.95	1.410e5	1.146e5	0.996	1.23	1.24	990.8	YES	NO	bd	bd	47.855
14	1234678-HpCDD	40.19	1.103e5	1.112e5	1.039	0.99	1.05	602.7	YES	NO	bb	bb	49.778
15	1234679-HPCDD	39.15	1.367e5	1.389e5	1.137	0.98	1.05	779.3	YES	NO	bb	bd	56.620
16	OCDD	44.90	1.901e5	2.045e5	0.920	0.93	0.89	724.9	YES	NO	bd	bb	100.221

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TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.23	3.297e4	3.925e4	0.678	0.84	0.77	422.2	YES	NO	bb	bb	9.770
2	2378-TCDF	25.73	3.468e4	4.452e4	0.702	0.78	0.77	474.4	YES	NO	bb	bb	10.355
3	1368-TCDF	22.23	4.700e4	6.185e4	0.802	0.76	0.77	653.8	YES	NO	bb	bb	12.456
4	12389-PECDF	32.25	1.906e5	1.217e5	0.496	1.57	1.55	777.1	YES	NO	bb	bb	68.890
5	23478-PeCDF	31.21	2.162e5	1.372e5	0.786	1.58	1.55	946.6	YES	NO	bb	bb	55.952
6	12378-PeCDF	29.88	2.071e5	1.390e5	0.679	1.49	1.55	903.6	YES	NO	bb	bb	55.792
7	Total-pentafurans	28.74	3.620e4	2.252e4	0.654	1.61	1.55	152.2	YES	NO	bb	bb	10.463
8	234678-HxCDF	35.84	1.903e5	1.554e5	1.140	1.22	1.24	1026.6	YES	NO	bd	bb	52.190
9	123678-HxCDF	34.97	2.156e5	1.814e5	1.091	1.19	1.24	1118.5	YES	NO	db	dd	54.154
10	123478-HxCDF	34.84	1.891e5	1.496e5	1.166	1.26	1.24	1075.1	YES	NO	bd	bd	48.184
11	123468-HXCDF	33.16	2.103e5	1.656e5	1.169	1.27	1.24	1159.3	YES	NO	bb	bb	53.332
12	123789-HxCDF	36.86	1.522e5	1.155e5	1.137	1.32	1.24	741.3	YES	NO	bb	bb	49.386
13	1234789-HpCDF	40.93	1.112e5	1.046e5	0.953	1.06	1.05	532.1	YES	NO	bb	bb	50.762
14	Total-heptafurans	39.16	3.033e2	3.092e2	0.978	0.98	1.05	2.6	NO	NO	bb	dd	0.122
15	1234678-HpCDF	38.70	1.420e5	1.382e5	1.003	1.03	1.05	850.0	YES	NO	bb	bb	48.077
16	OCDF	45.13	1.985e5	1.996e5	0.778	0.99	0.89	1498.9	YES	NO	bd	bb	119.605
17	13468-PECDF	27.07	3.285e5	2.157e5	1.246	1.52	1.55	7210.3	YES	NO	bb	bb	47.812
18	1368-TCDD	23.50	3.993e4	5.082e4	1.015	0.79	0.77	432.1	YES	NO	bb	bd	11.488
19	1289-TCDD	26.97	3.283e4	3.934e4	0.909	0.83	0.77	323.9	YES	NO	bb	bd	10.210
20	2378-TCDD	26.37	3.904e4	4.730e4	1.149	0.83	0.77	392.2	YES	NO	bd	bb	9.663
21	Total-tetradioxins	26.04	5.548e4	7.115e4	1.024	0.78	0.77	406.3	YES	NO	bb	bb	15.893
22	Total-tetradioxins	25.56	1.795e4	2.352e4	1.024	0.76	0.77	199.2	YES	NO	bb	bb	5.205
23	Total-tetradioxins	25.00	5.075e2	6.678e2	1.024	0.76	0.77	5.8	YES	NO	bb	bb	0.147
24	12389-PECDD	31.87	1.820e5	1.160e5	1.184	1.57	1.55	1233.1	YES	NO	bb	bb	50.670
25	12378-PeCDD	31.47	1.597e5	1.030e5	1.022	1.55	1.55	1146.3	YES	NO	bb	bb	51.750
26	12479-PECDD	28.75	2.954e5	1.977e5	2.301	1.49	1.55	1367.8	YES	NO	bb	bb	43.119
27	124679-HXCDD	33.94	1.623e5	1.310e5	1.115	1.24	1.24	1074.8	YES	NO	bb	bb	48.999
28	123789-HxCDD	36.45	1.366e5	1.219e5	0.907	1.12	1.24	933.6	YES	NO	bb	dd	50.894
29	123678-HxCDD	36.07	1.665e5	1.353e5	1.001	1.23	1.24	1047.4	YES	NO	db	dd	51.730
30	123478-HxCDD	35.95	1.410e5	1.146e5	0.996	1.23	1.24	990.8	YES	NO	bd	bd	47.855
31	1234678-HpCDD	40.19	1.103e5	1.112e5	1.039	0.99	1.05	602.7	YES	NO	bb	bb	49.778
32	1234679-HPCDD	39.15	1.367e5	1.389e5	1.137	0.98	1.05	779.3	YES	NO	bb	bd	56.620
33	OCDD	44.90	1.901e5	2.045e5	0.920	0.93	0.89	724.9	YES	NO	bd	bb	100.221

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PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	21.24	6.743e3					1.1	NO		bb		

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PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	28.60	3.337e4					2.6	NO		dd		0.000
2	FUNCTION2 PFK	28.45	5.779e4					2.4	NO		dd		0.000
3	FUNCTION2 PFK	28.40	3.019e4					3.7	YES		dd		0.000
4	FUNCTION2 PFK	28.35	4.599e4					3.6	YES		dd		0.000
5	FUNCTION2 PFK	28.24	7.808e4					4.1	YES		bd		0.000
6	FUNCTION2 PFK	29.82	4.429e3					0.8	NO		bb		0.000
7	FUNCTION2 PFK	29.68	1.480e4					1.3	NO		db		0.000
8	FUNCTION2 PFK	29.57	2.454e4					2.0	NO		dd		0.000
9	FUNCTION2 PFK	29.47	1.392e4					2.0	NO		dd		0.000
10	FUNCTION2 PFK	29.42	1.551e4					1.8	NO		dd		0.000
11	FUNCTION2 PFK	29.33	2.398e4					1.8	NO		dd		0.000
12	FUNCTION2 PFK	29.29	1.166e4					1.3	NO		bd		0.000
13	FUNCTION2 PFK	29.21	4.199e3					0.6	NO		bb		0.000
14	FUNCTION2 PFK	29.12	3.054e3					0.7	NO		bb		0.000
15	FUNCTION2 PFK	29.06	1.233e3					0.5	NO		bb		0.000
16	FUNCTION2 PFK	29.01	6.716e3					1.0	NO		bb		0.000
17	FUNCTION2 PFK	28.92	7.596e2					0.3	NO		bb		0.000
18	FUNCTION2 PFK	28.88	8.025e3					1.3	NO		db		0.000
19	FUNCTION2 PFK	28.82	2.600e4					1.9	NO		dd		0.000
20	FUNCTION2 PFK	28.74	2.651e4					2.4	NO		dd		0.000
21	FUNCTION2 PFK	28.65	2.076e4					1.8	NO		dd		0.000
22	FUNCTION2 PFK	31.60	7.547e3					1.0	NO		bb		0.000
23	FUNCTION2 PFK	31.45	1.132e3					0.4	NO		bb		0.000
24	FUNCTION2 PFK	31.36	2.797e3					0.6	NO		bb		0.000
25	FUNCTION2 PFK	31.23	1.763e4					1.6	NO		db		0.000
26	FUNCTION2 PFK	31.13	2.840e4					2.6	NO		bd		0.000
27	FUNCTION2 PFK	30.99	2.041e4					1.7	NO		bb		0.000
28	FUNCTION2 PFK	30.89	3.633e3					0.9	NO		bb		0.000
29	FUNCTION2 PFK	30.81	9.225e3					1.7	NO		bb		0.000
30	FUNCTION2 PFK	30.66	1.064e4					1.0	NO		bb		0.000
31	FUNCTION2 PFK	30.41	3.972e3					0.6	NO		bb		0.000
32	FUNCTION2 PFK	30.37	5.950e3					1.2	NO		bb		0.000
33	FUNCTION2 PFK	30.26	3.900e3					0.7	NO		db		0.000
34	FUNCTION2 PFK	30.20	2.901e3					0.5	NO		bd		0.000
35	FUNCTION2 PFK	30.12	5.635e3					0.9	NO		db		0.000
36	FUNCTION2 PFK	30.08	1.093e4					1.6	NO		bd		0.000
37	FUNCTION2 PFK	29.91	4.217e3					0.7	NO		bb		0.000

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PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	FUNCTION2 PFK	32.75	1.036e4					1.1	NO		bb		0.000
39	FUNCTION2 PFK	32.62	4.585e3					1.0	NO		db		0.000
40	FUNCTION2 PFK	32.58	1.874e4					1.2	NO		dd		0.000
41	FUNCTION2 PFK	32.50	7.540e3					1.2	NO		bd		0.000
42	FUNCTION2 PFK	32.42	4.111e3					0.7	NO		bb		0.000
43	FUNCTION2 PFK	32.25	5.382e3					0.9	NO		bb		0.000
44	FUNCTION2 PFK	32.21	9.670e3					1.6	NO		db		0.000
45	FUNCTION2 PFK	32.16	5.434e3					0.8	NO		bd		0.000
46	FUNCTION2 PFK	32.07	5.891e3					1.0	NO		bb		0.000
47	FUNCTION2 PFK	31.94	2.146e4					1.8	NO		db		0.000
48	FUNCTION2 PFK	31.86	2.212e4					2.1	NO		dd		0.000
49	FUNCTION2 PFK	31.81	1.203e4					1.5	NO		bd		0.000
50	FUNCTION2 PFK	31.70	2.076e4					1.7	NO		db		0.000
51	FUNCTION2 PFK	31.65	1.257e3					0.4	NO		bd		0.000

PFK3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

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PFK4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	40.80	6.912e3					1.0	NO		bb		
2	FUNCTION4 PFK	40.74	1.007e4					1.2	NO		bb		
3	FUNCTION4 PFK	40.55	1.272e3					0.4	NO		bb		
4	FUNCTION4 PFK	40.34	1.743e4					1.2	NO		db		
5	FUNCTION4 PFK	40.26	9.429e3					1.1	NO		dd		
6	FUNCTION4 PFK	40.22	7.232e3					1.1	NO		bd		
7	FUNCTION4 PFK	39.48	3.282e3					0.6	NO		bb		
8	FUNCTION4 PFK	39.33	4.282e3					0.8	NO		bb		
9	FUNCTION4 PFK	38.80	1.631e4					1.2	NO		bb		
10	FUNCTION4 PFK	38.67	1.228e3					0.4	NO		bb		
11	FUNCTION4 PFK	38.53	2.525e4					0.7	NO		bb		
12	FUNCTION4 PFK	38.17	2.871e3					0.6	NO		bb		
13	FUNCTION4 PFK	38.12	3.455e3					0.6	NO		bb		
14	FUNCTION4 PFK	38.07	1.515e4					1.4	NO		db		
15	FUNCTION4 PFK	38.00	9.558e3					1.2	NO		dd		
16	FUNCTION4 PFK	37.92	2.626e4					1.6	NO		bd		
17	FUNCTION4 PFK	42.73	1.232e4					0.9	NO		db		
18	FUNCTION4 PFK	42.70	3.260e3					0.7	NO		bd		
19	FUNCTION4 PFK	42.54	3.229e4					1.7	NO		bb		
20	FUNCTION4 PFK	41.90	1.020e4					1.2	NO		db		
21	FUNCTION4 PFK	41.85	9.516e3					1.3	NO		bd		
22	FUNCTION4 PFK	41.76	5.645e3					0.9	NO		bb		
23	FUNCTION4 PFK	41.62	1.715e4					1.4	NO		bb		
24	FUNCTION4 PFK	41.41	3.662e3					0.7	NO		bb		
25	FUNCTION4 PFK	41.21	4.380e3					0.9	NO		bb		
26	FUNCTION4 PFK	41.15	4.561e3					0.8	NO		bb		
27	FUNCTION4 PFK	41.02	3.850e3					0.7	NO		bb		

PFK5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

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ETHERS1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	23.56	1.243e2					2.6	NO		bb		0.000
2	FUNCTION1 HXCD...	21.85	9.055e1					2.6	NO		bb		0.000

ETHERS2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	32.53	9.864e1					1.4	NO		bb		0.000
2	FUNCTION2 HPCD...	32.40	1.293e2					3.4	YES		bb		0.000
3	FUNCTION2 HPCD...	32.17	8.502e1					3.0	NO		bb		0.000
4	FUNCTION2 HPCD...	31.87	8.398e1					1.1	NO		bb		0.000
5	FUNCTION2 HPCD...	31.77	9.722e1					2.2	NO		bb		0.000
6	FUNCTION2 HPCD...	31.62	7.751e1					1.9	NO		bb		0.000
7	FUNCTION2 HPCD...	31.10	8.571e1					1.9	NO		bb		0.000
8	FUNCTION2 HPCD...	30.30	8.760e1					1.7	NO		bb		0.000
9	FUNCTION2 HPCD...	29.94	7.882e1					1.9	NO		db		0.000
10	FUNCTION2 HPCD...	29.88	1.057e2					1.7	NO		dd		0.000
11	FUNCTION2 HPCD...	29.77	9.508e1					1.4	NO		dd		0.000
12	FUNCTION2 HPCD...	29.67	9.015e1					1.8	NO		bd		0.000
13	FUNCTION2 HPCD...	28.80	1.155e2					2.2	NO		db		0.000
14	FUNCTION2 HPCD...	28.72	8.253e1					1.1	NO		bd		0.000
15	FUNCTION2 HPCD...	28.15	7.075e1					1.9	NO		bb		0.000

ETHERS4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	36.43	1.368e2					3.0	NO		bb		0.000
2	FUNCTION3 OCDPE	35.94	9.948e1					2.1	NO		bb		0.000
3	FUNCTION3 OCDPE	34.81	7.419e1					1.7	NO		bb		0.000

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ETHERS5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	41.78	8.596e1					2.8	NO		db		0.000
2	FUNCTION4 NCDPE	41.72	8.929e1					2.2	NO		dd		0.000
3	FUNCTION4 NCDPE	41.64	8.338e1					2.1	NO		dd		0.000
4	FUNCTION4 NCDPE	41.54	7.945e1					2.4	NO		bd		0.000
5	FUNCTION4 NCDPE	40.18	7.042e1					2.0	NO		bb		0.000
6	FUNCTION4 NCDPE	39.07	8.671e1					3.4	YES		bb		0.000

ETHERS6

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

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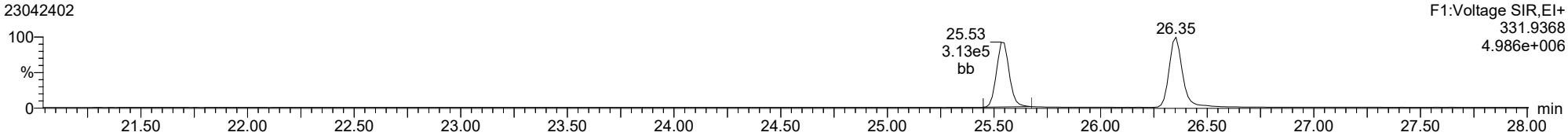
Printed: Tuesday, April 25, 2023 11:17:39 Pacific Daylight Time

Method: T:\Autospec\Methods\Dioxin230424.mdb 25 Apr 2023 07:59:40
Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 11:57:27

ID: CS3H1, Name: 23042402, Date: 24-Apr-2023, Time: 14:09:14, Conditions: AUTOSPEC01, User: pk

13C-1234-TCDD



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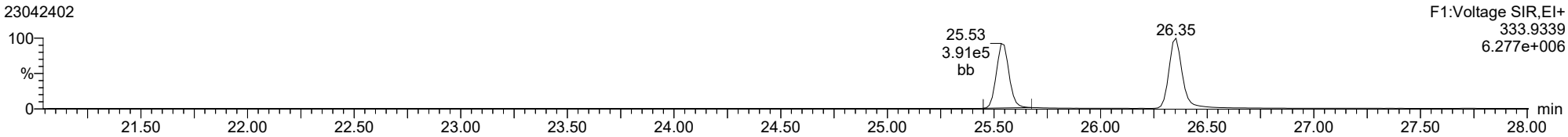

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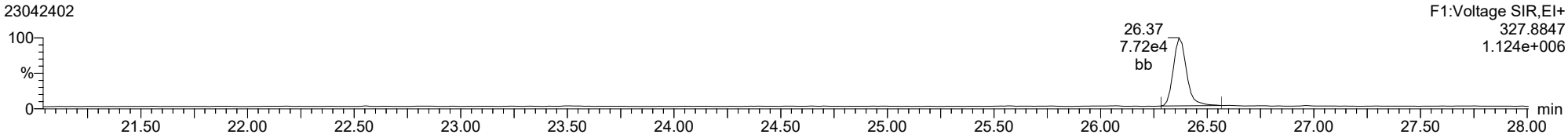

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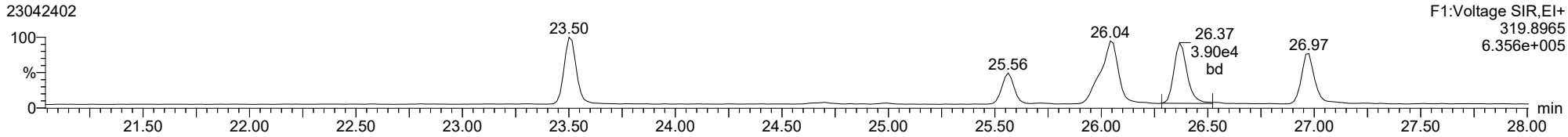
2378-TCDD



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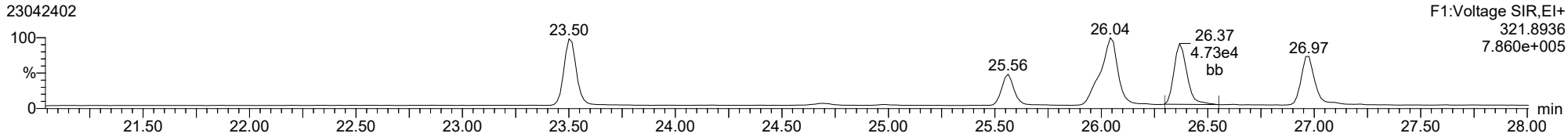
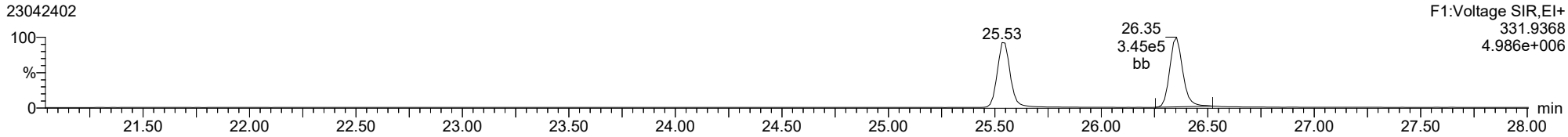
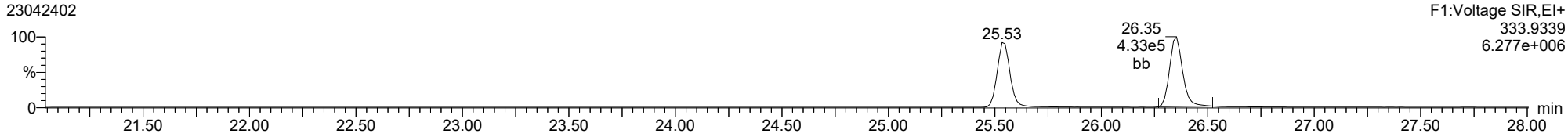


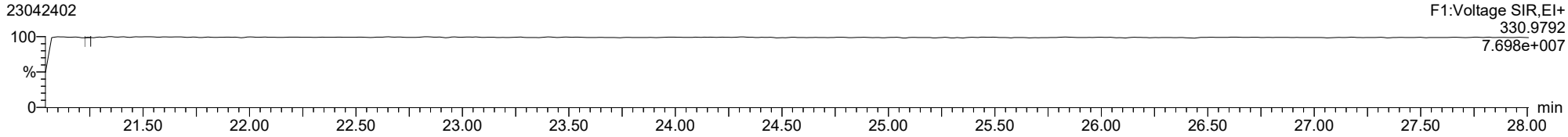
13C-2378-TCDD



13C-2378-TCDD



FUNCTION1 PFK



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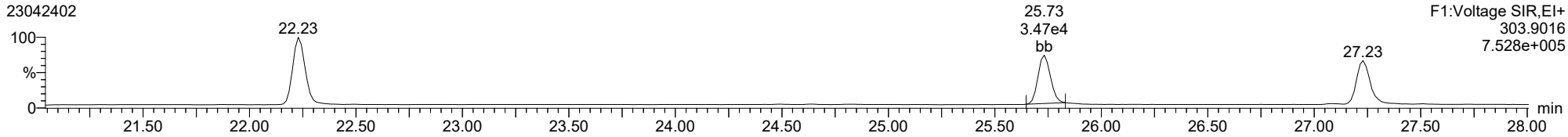
2378-TCDF



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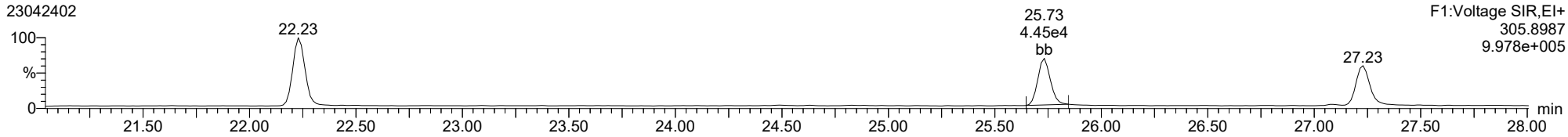

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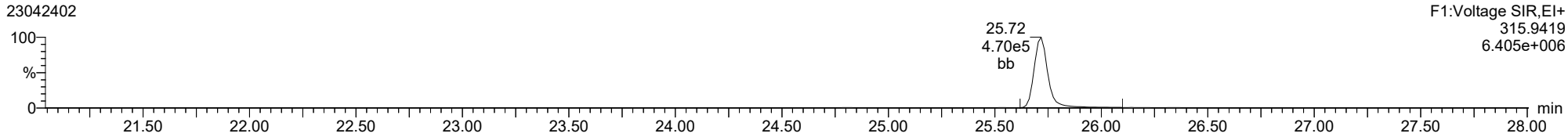

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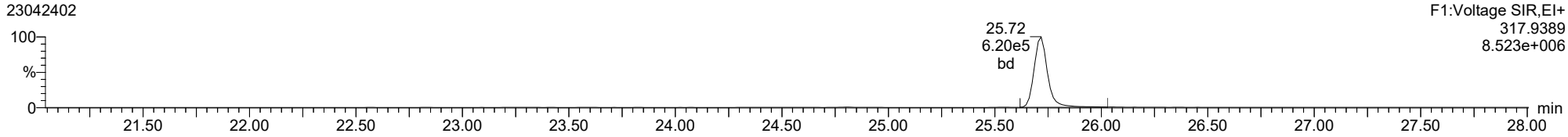

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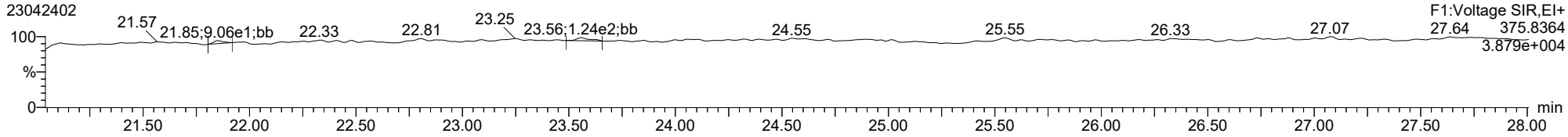

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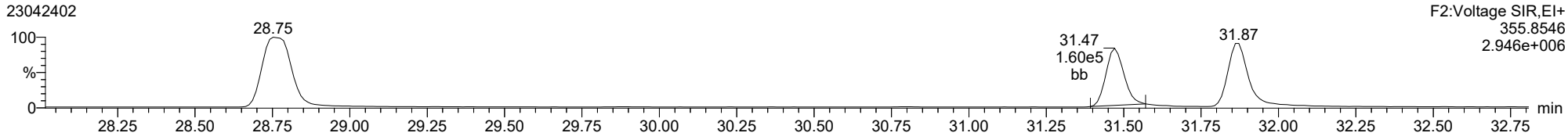
12378-PeCDD



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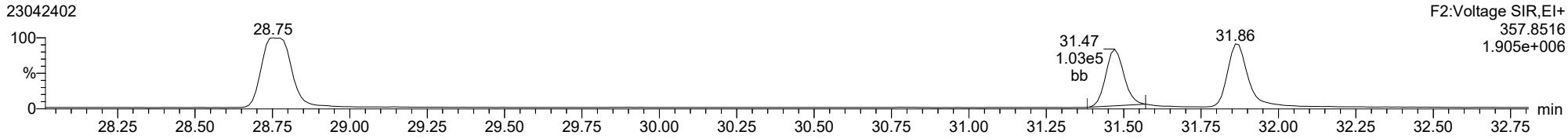

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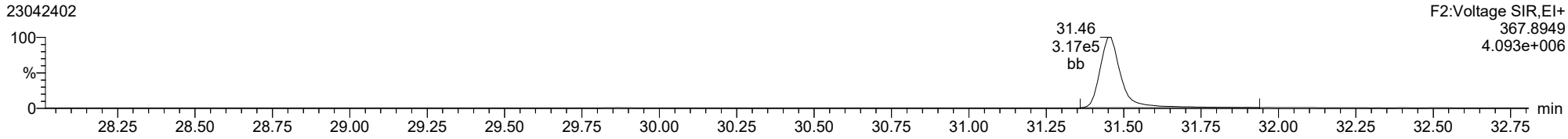

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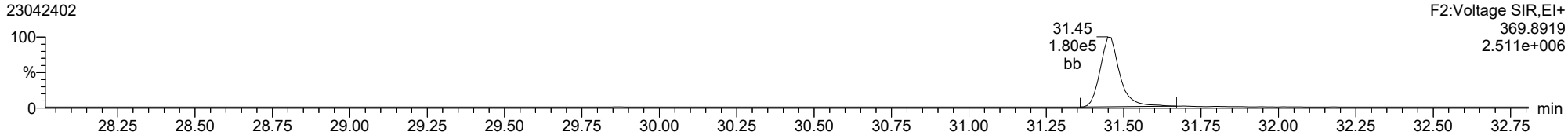

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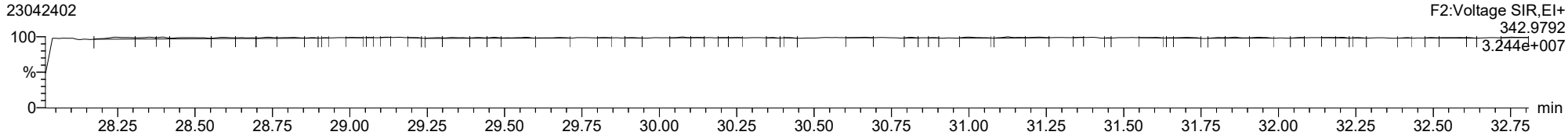

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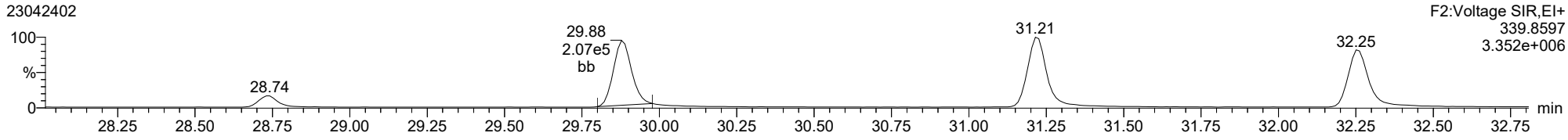

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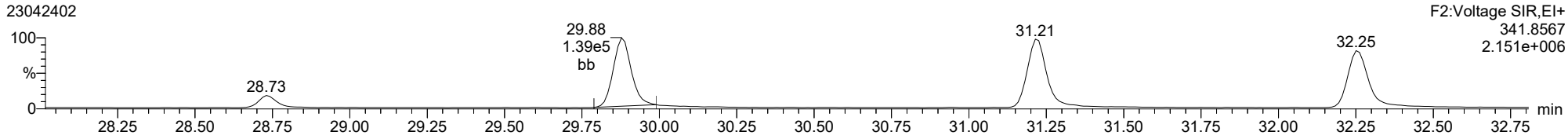

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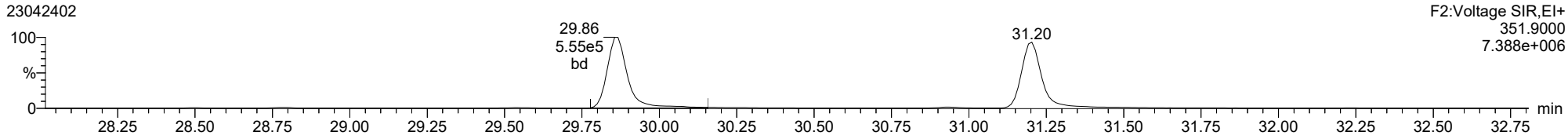

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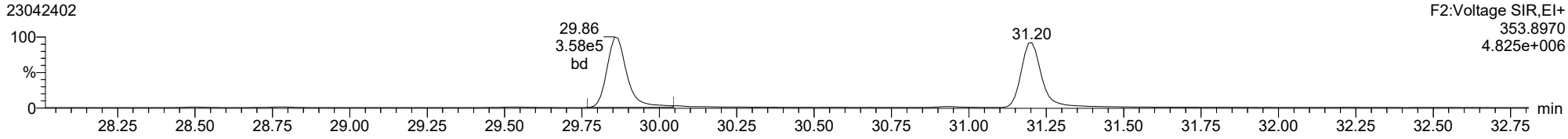
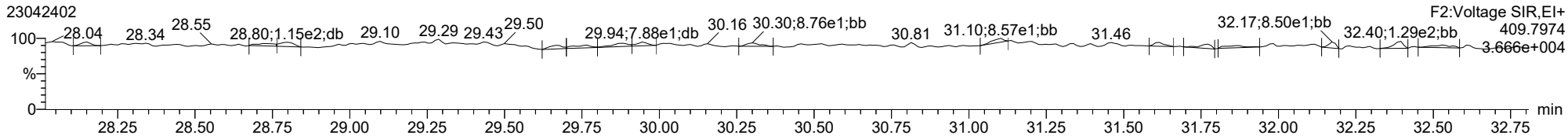


FUNCTION2 HPCDPE



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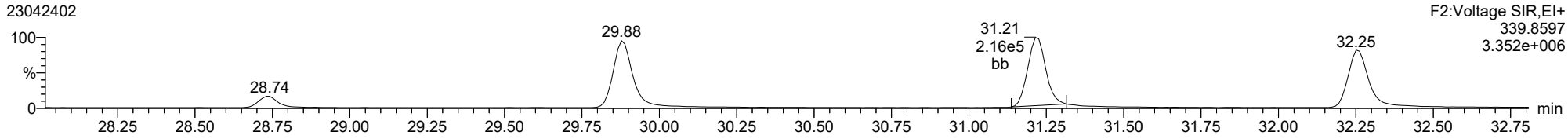
23478-PeCDF



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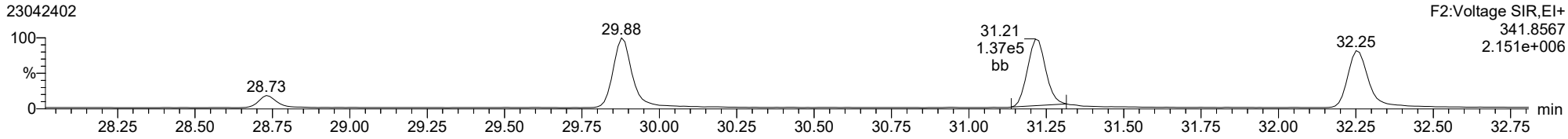

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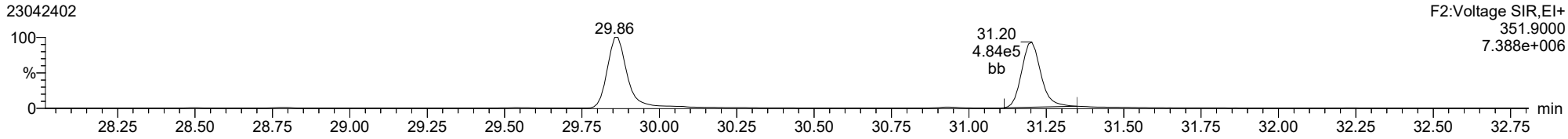

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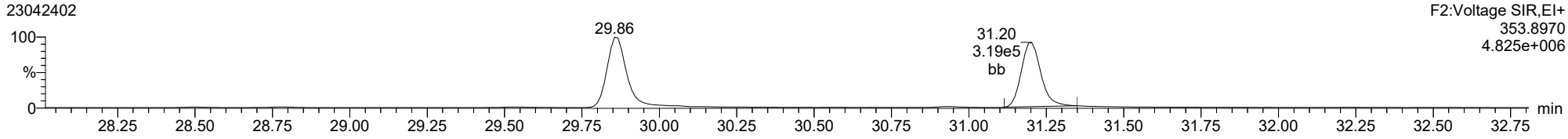

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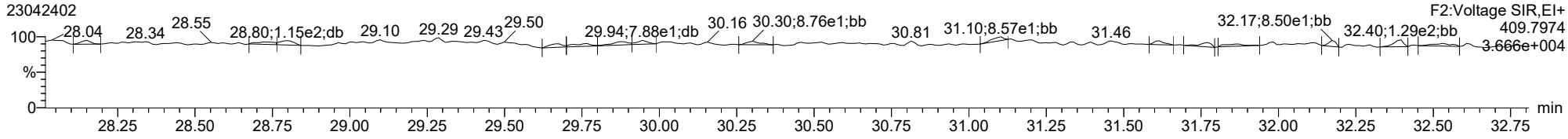

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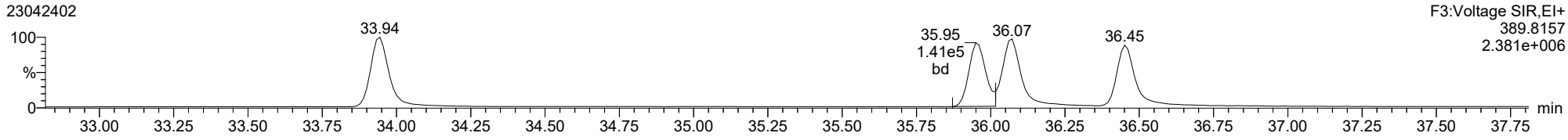

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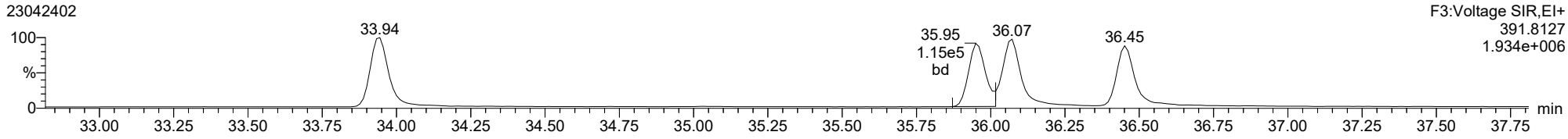

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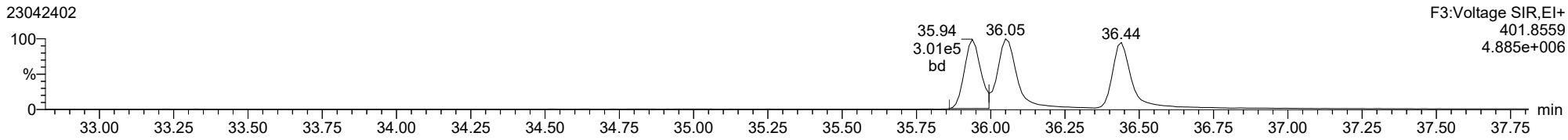

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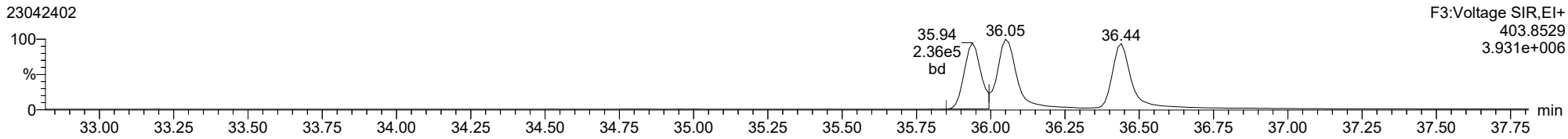
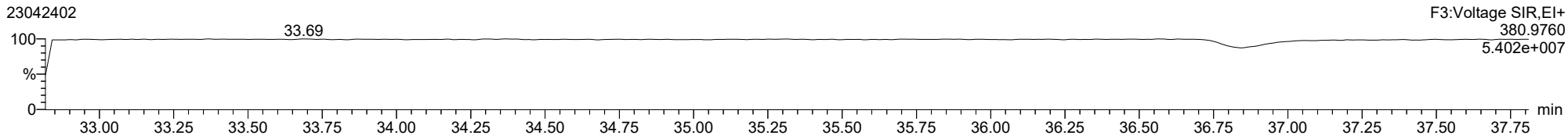


FUNCTION3 PFK



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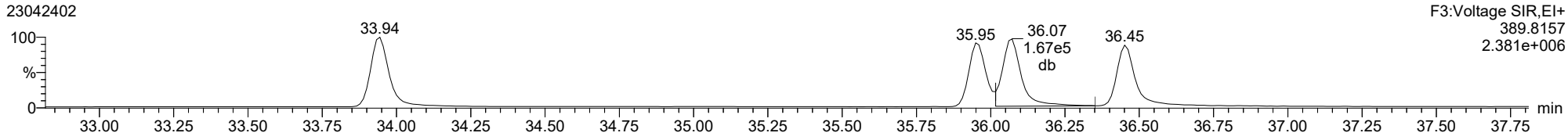

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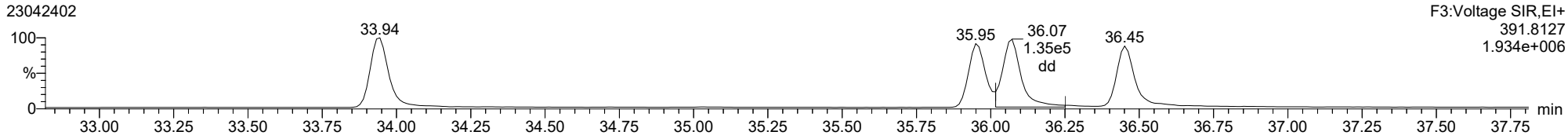

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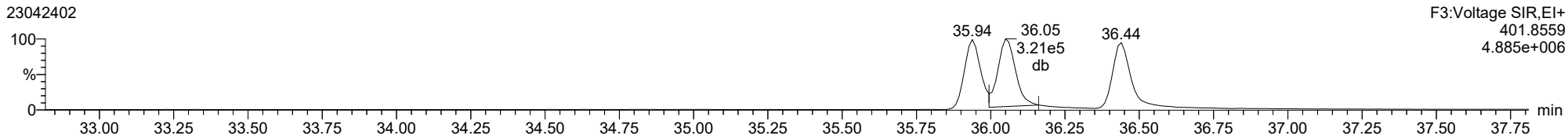

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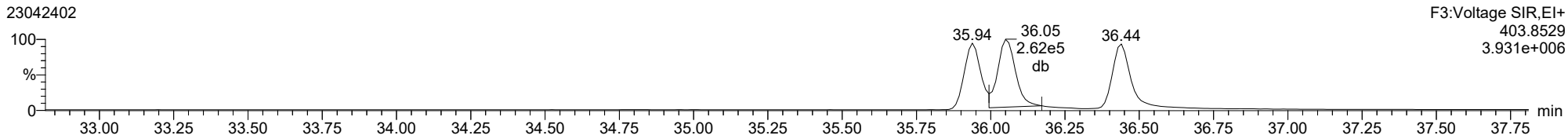

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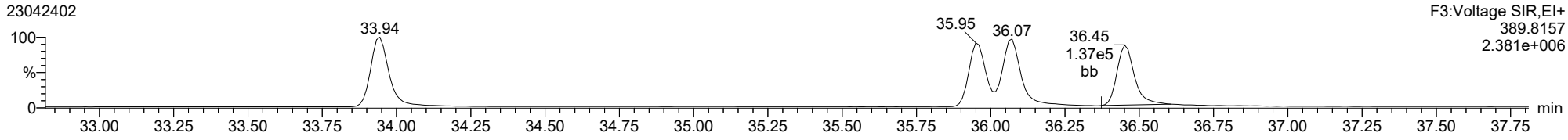

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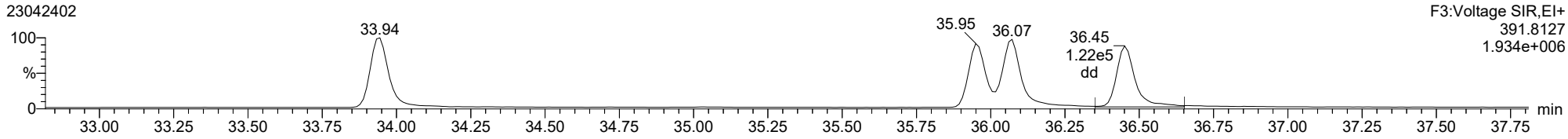

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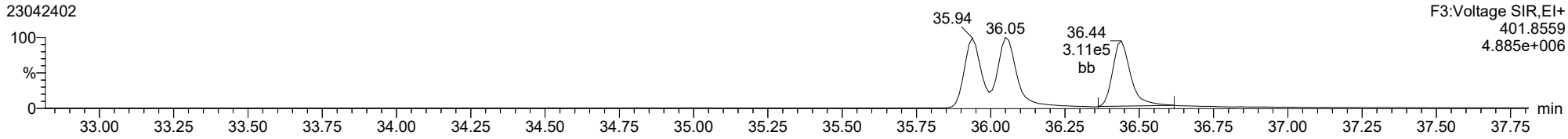

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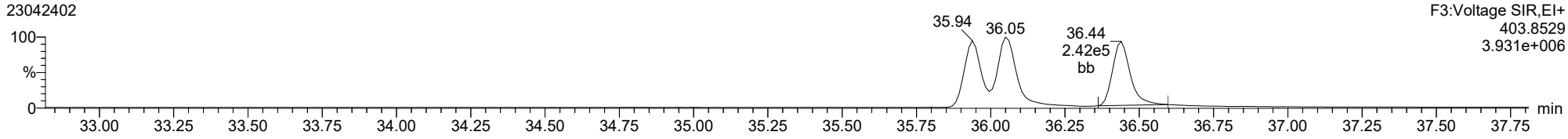

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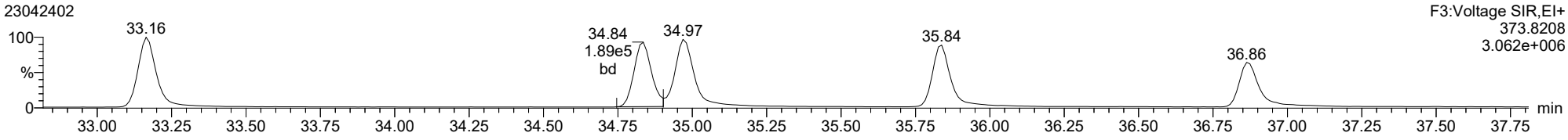
123478-HxCDF



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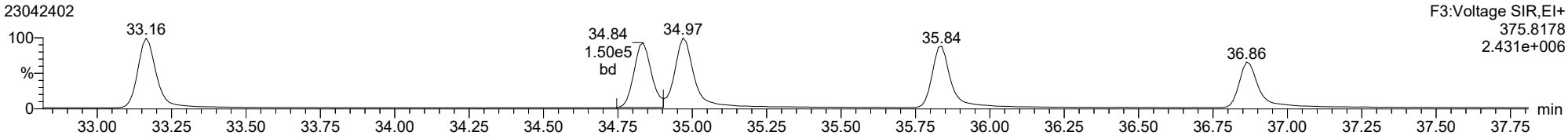

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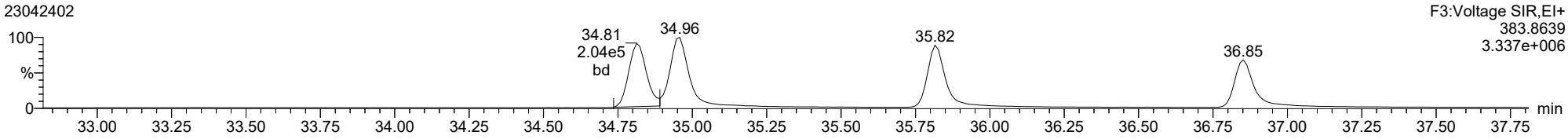

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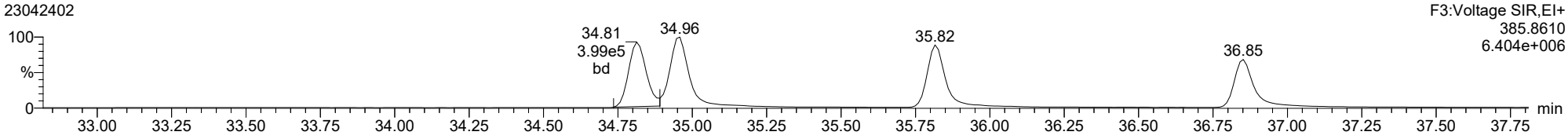
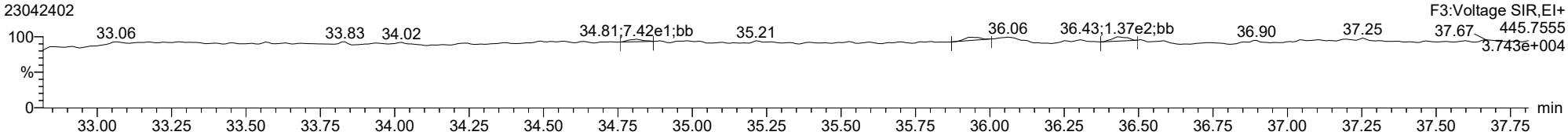


FUNCTION3 OCDPE



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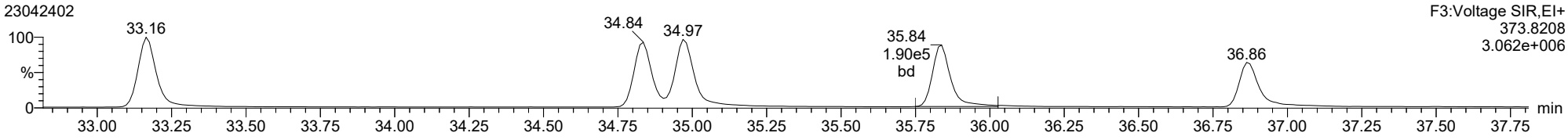
234678-HxCDF



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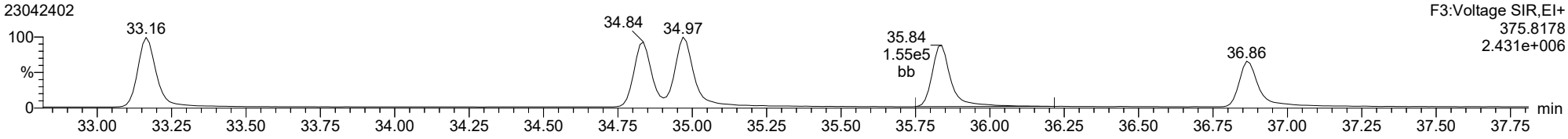

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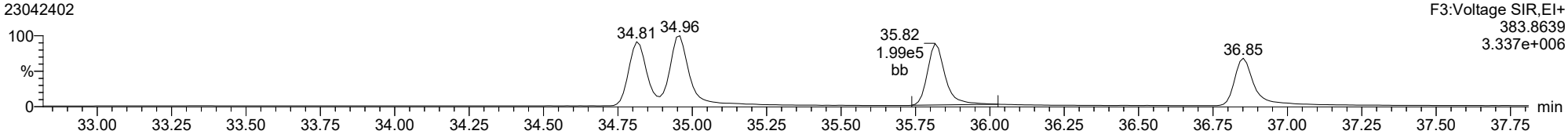

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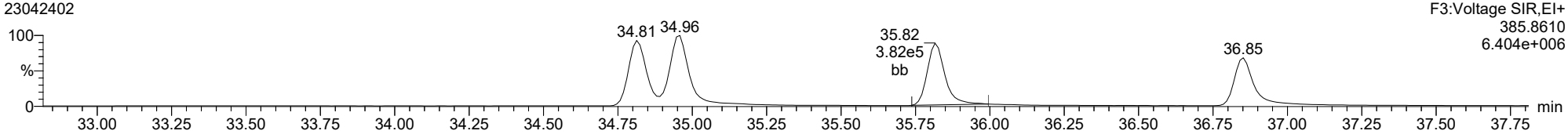
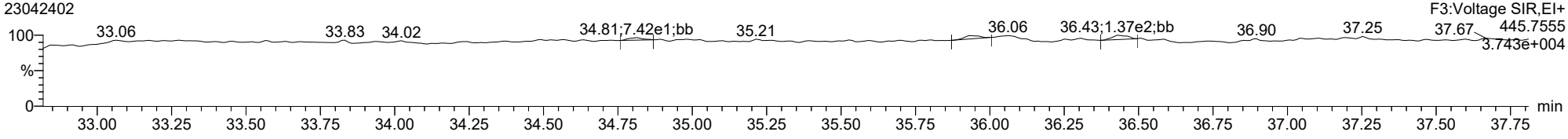


FUNCTION3 OCDPE



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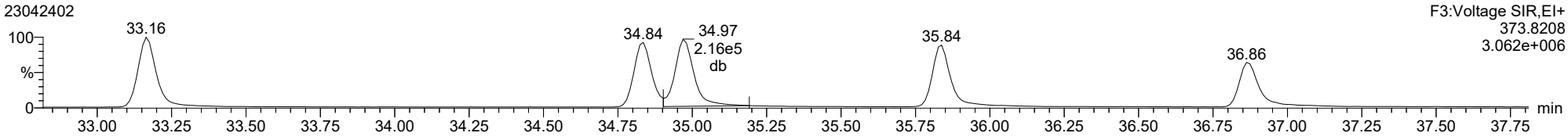

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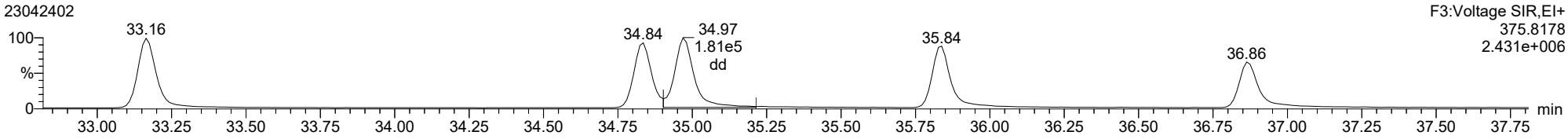

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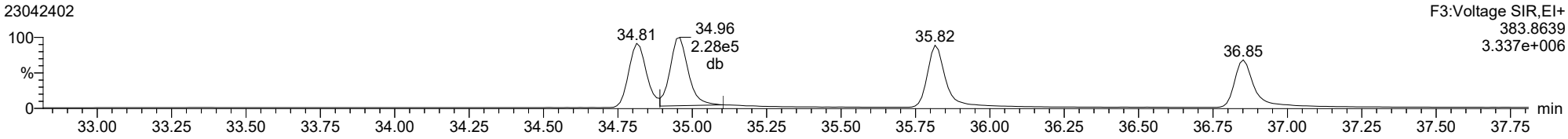

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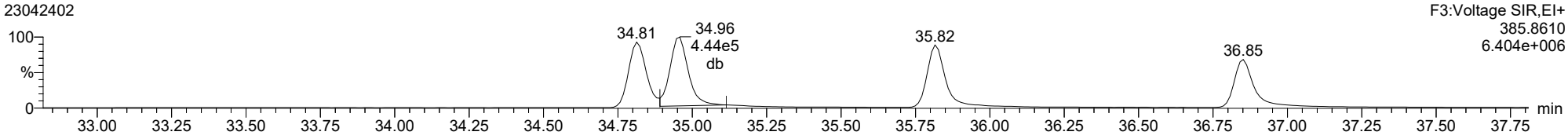

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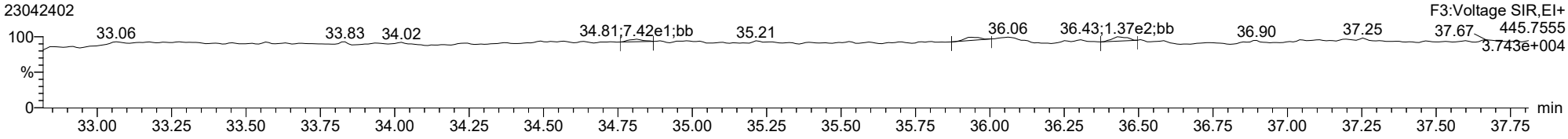

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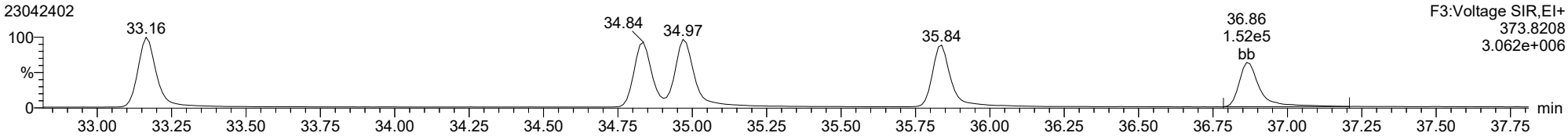

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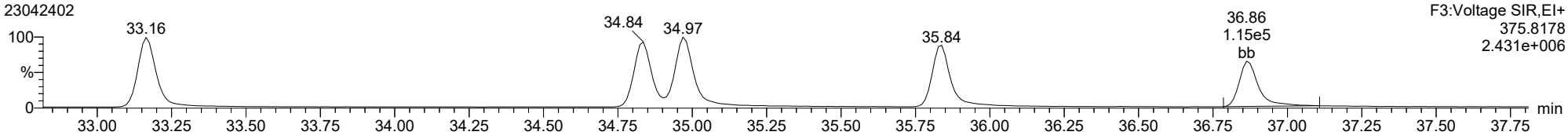

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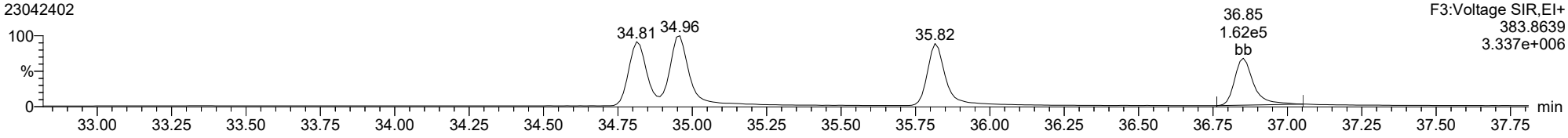

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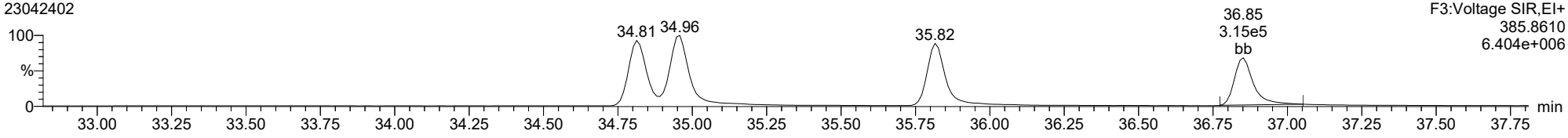

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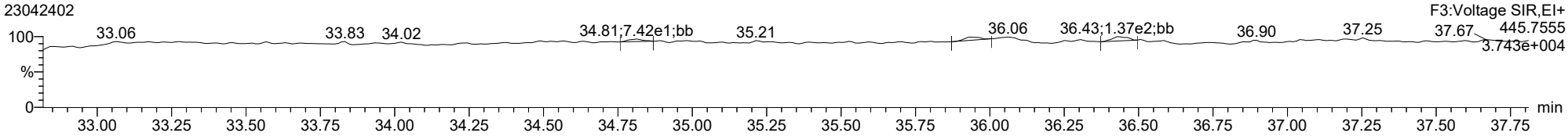

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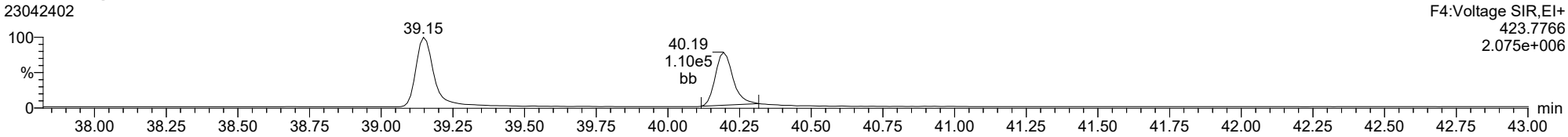

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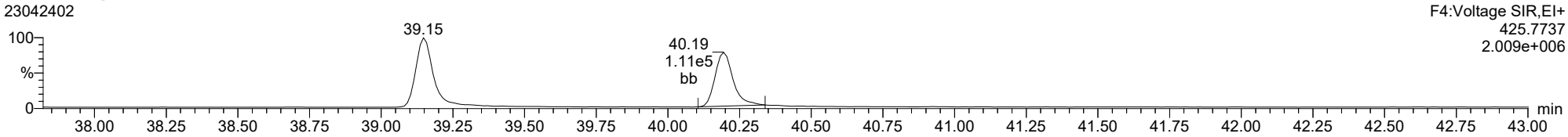

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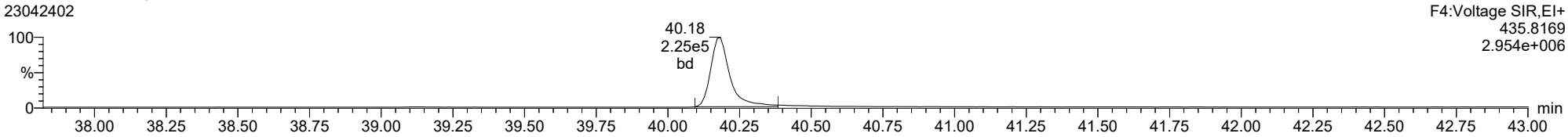

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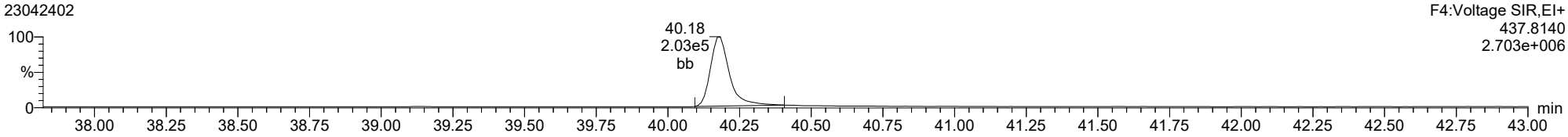

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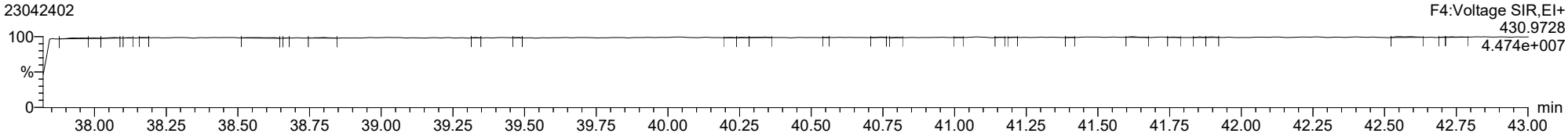

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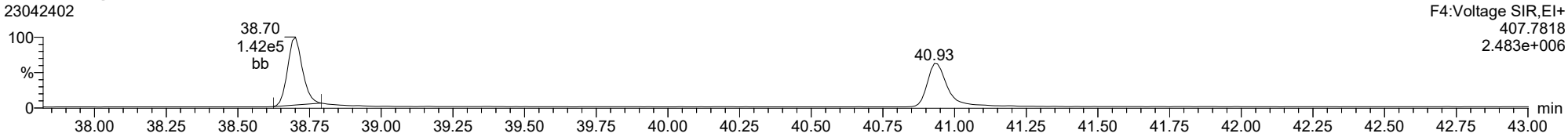

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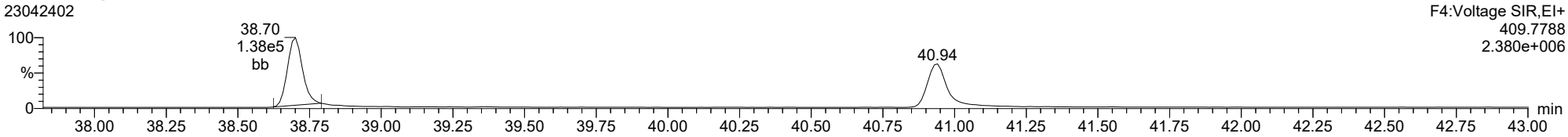

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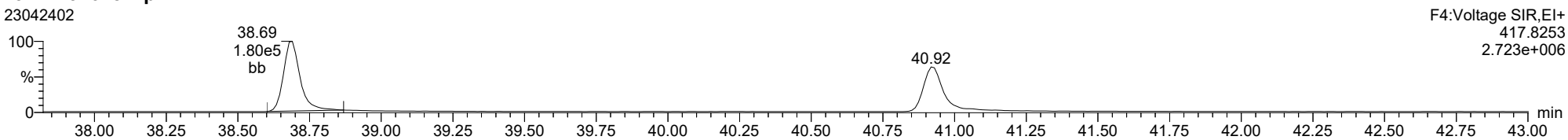

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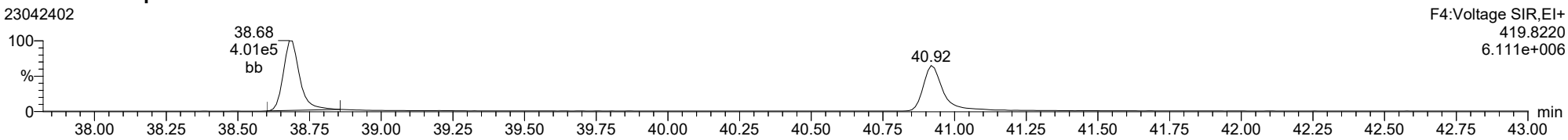

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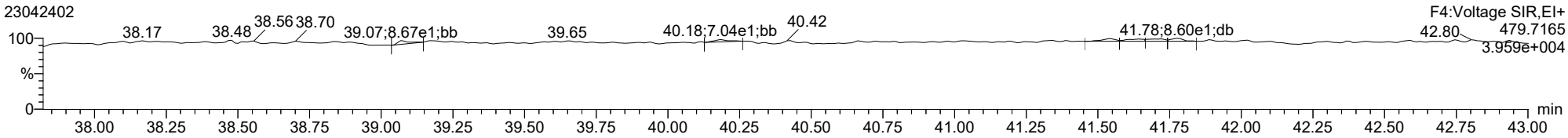

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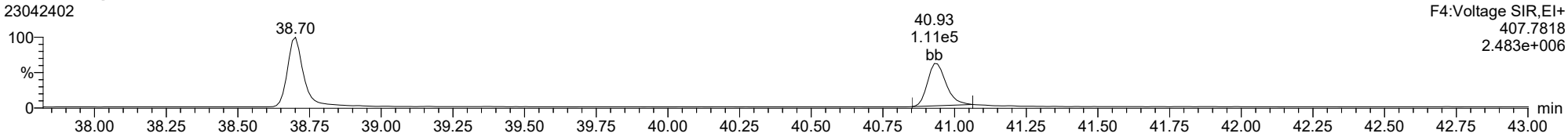

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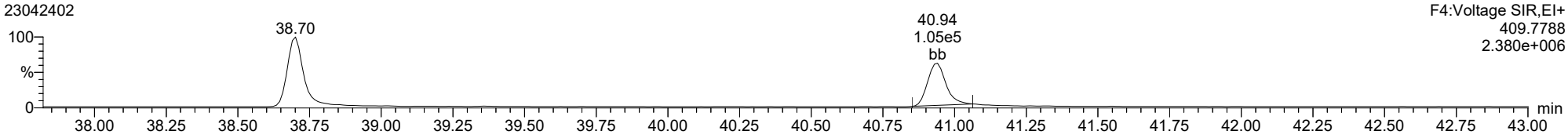

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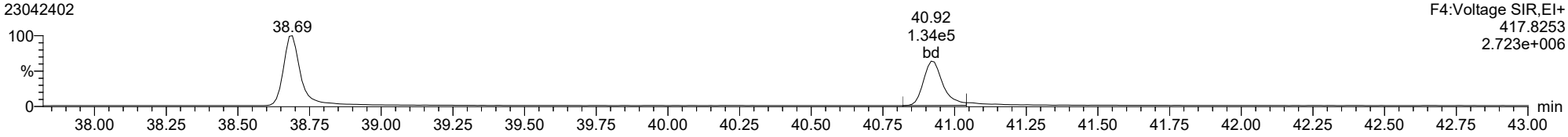

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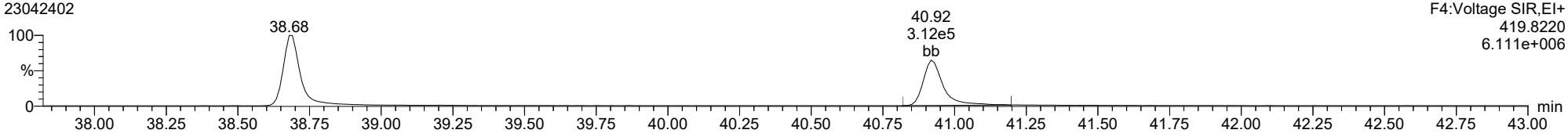

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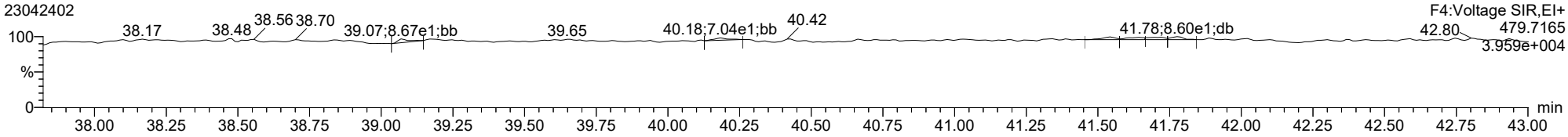

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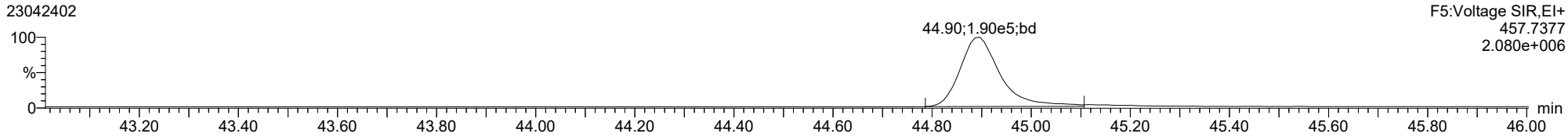

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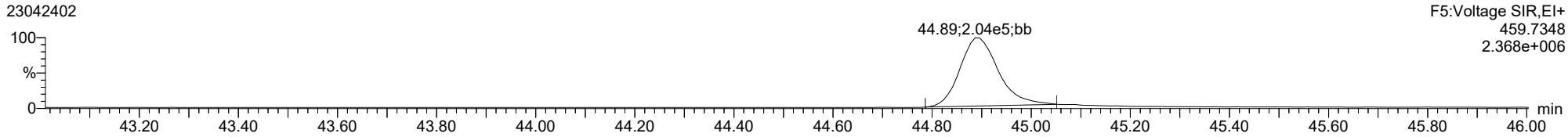

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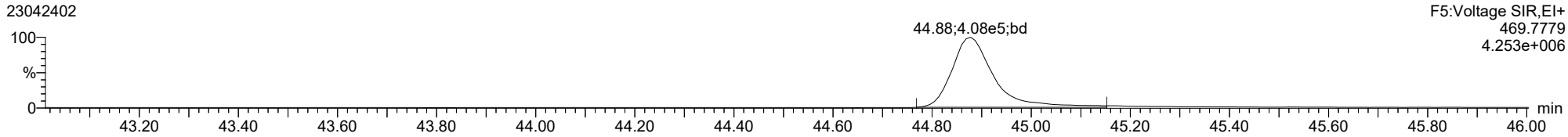

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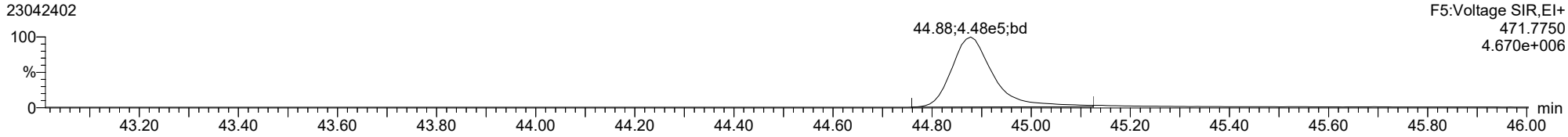

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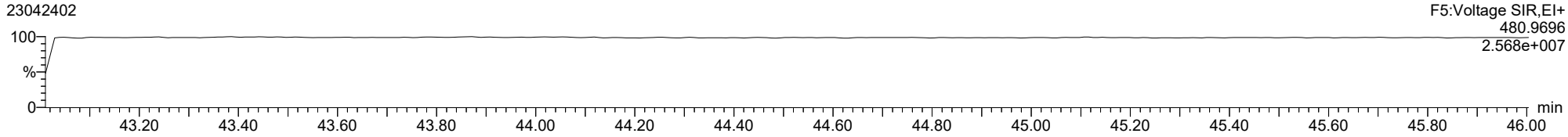

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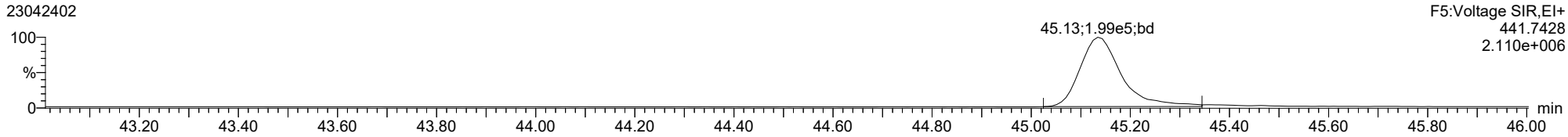

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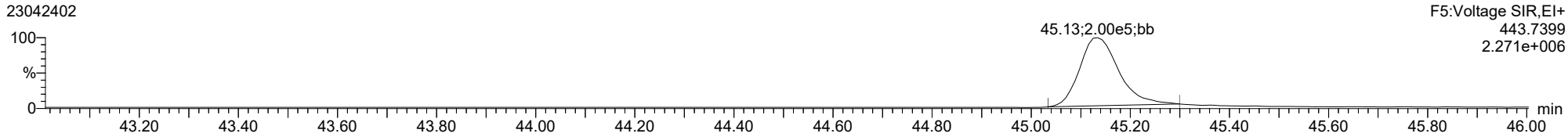

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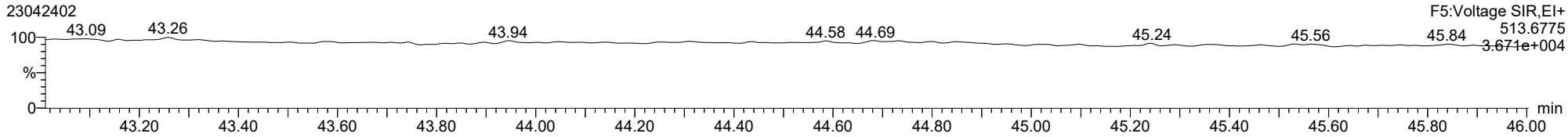

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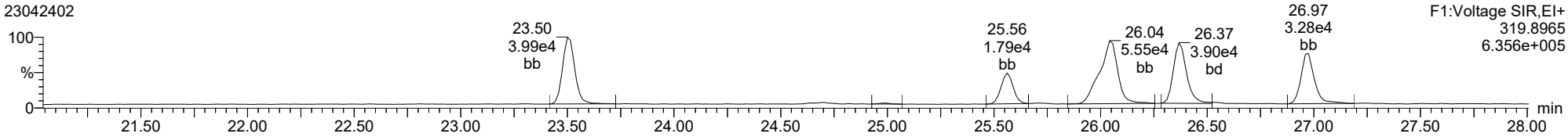
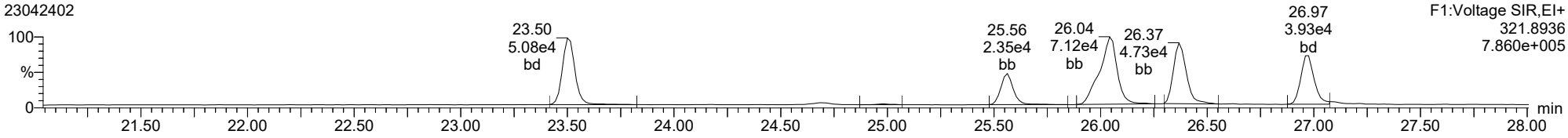
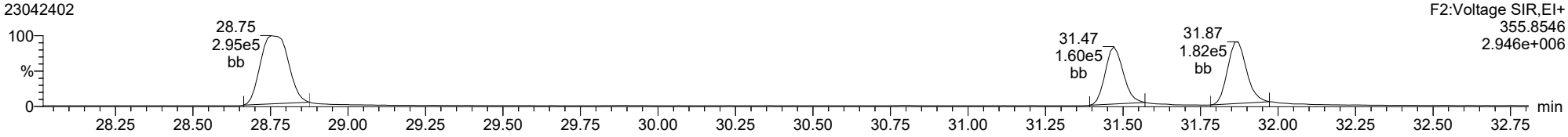


Total-tetradioxins



Total-pentadioxins



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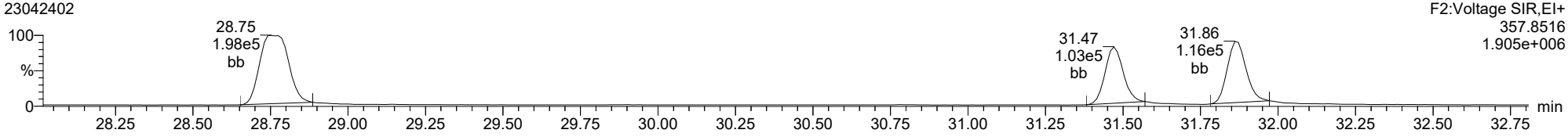

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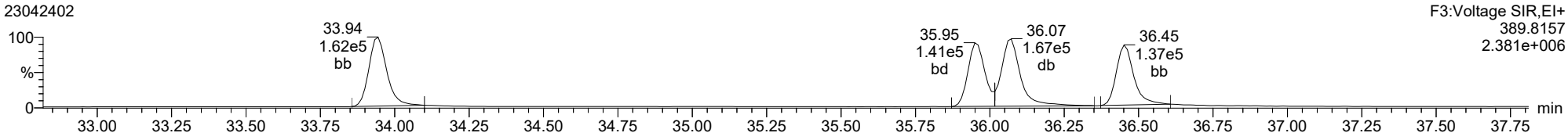

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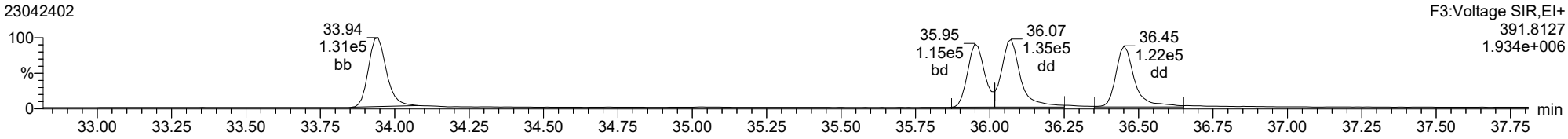

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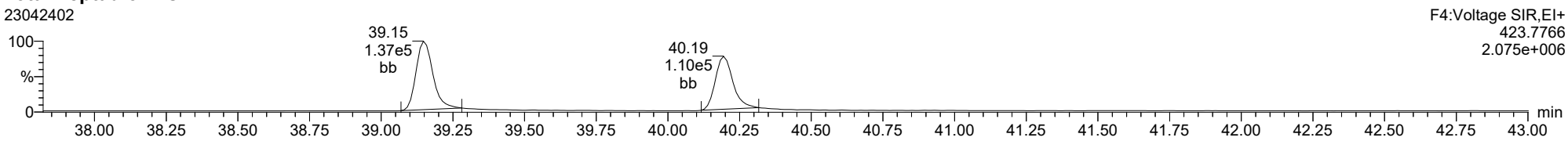

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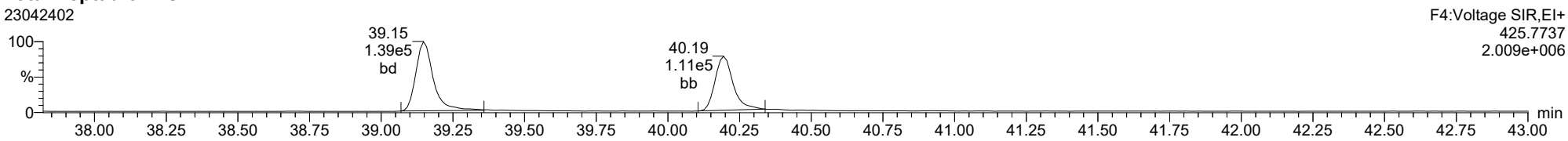

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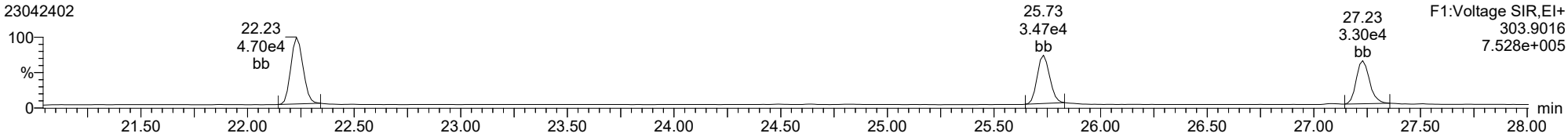
Total-tetrafurans



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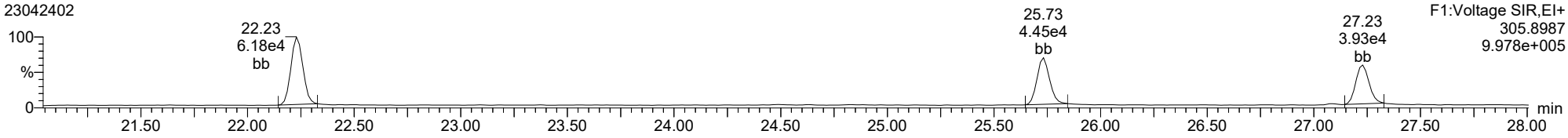

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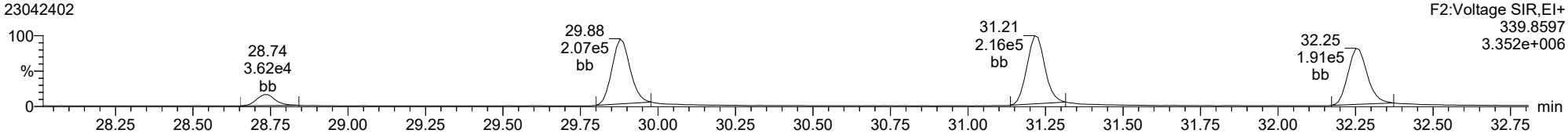

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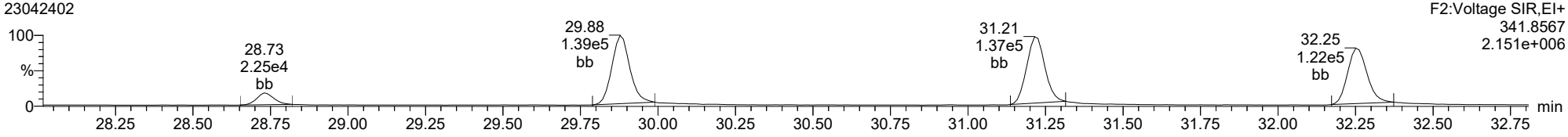

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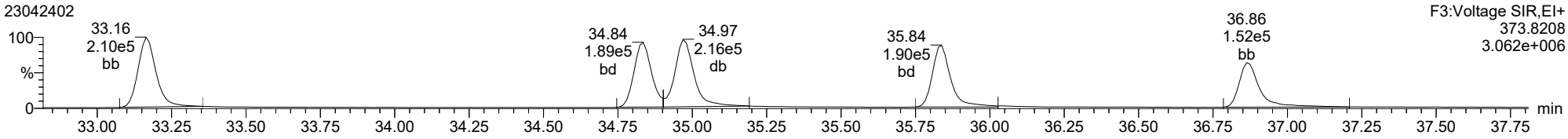

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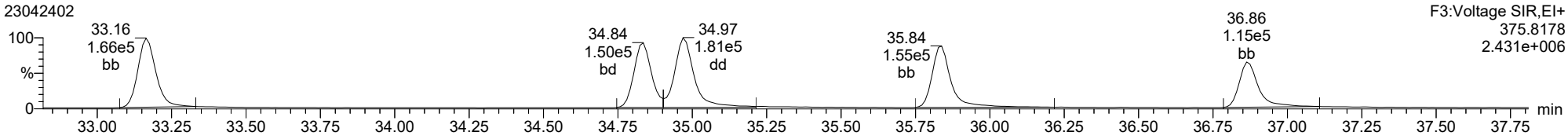

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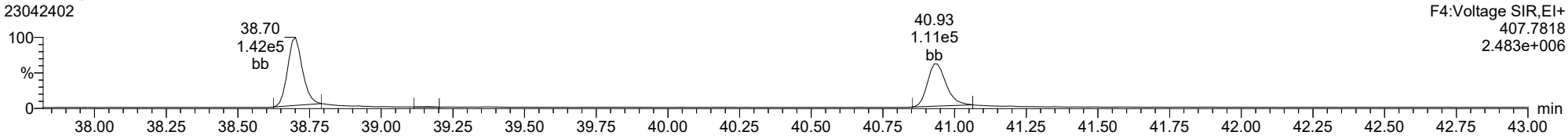

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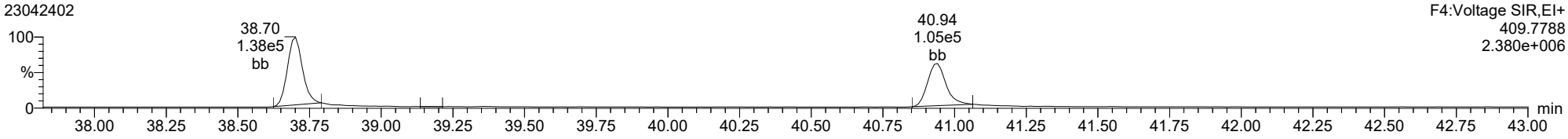

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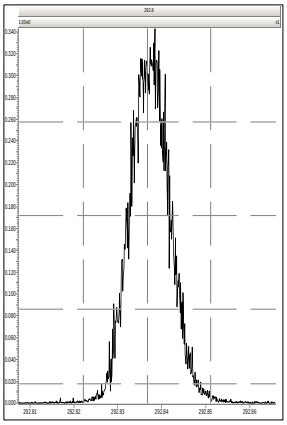

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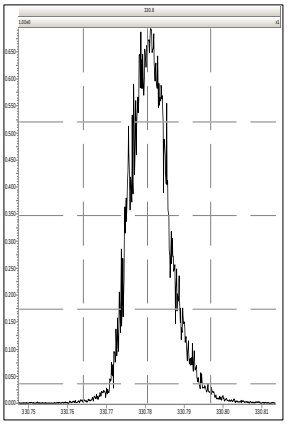
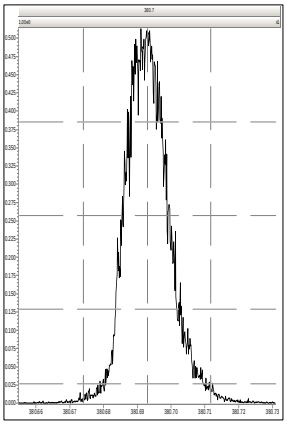
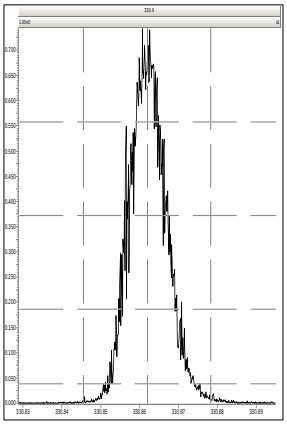


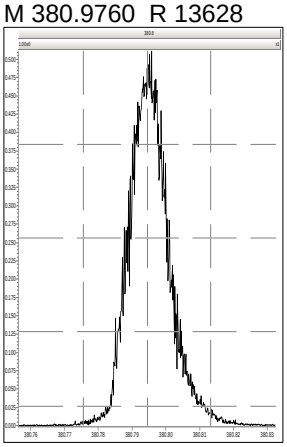
M 380.9760 R 13090



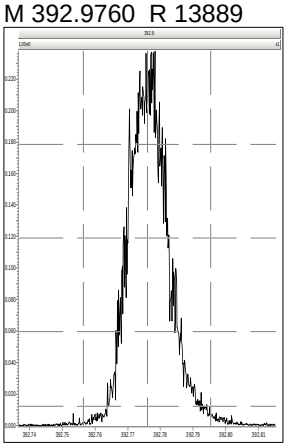
M 330.9792 R 14839



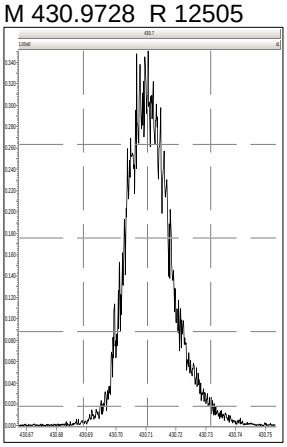
M 380.9760 R 13628



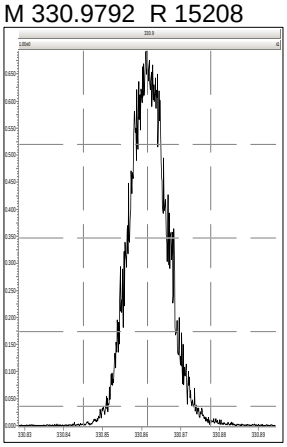
M 392.9760 R 13889



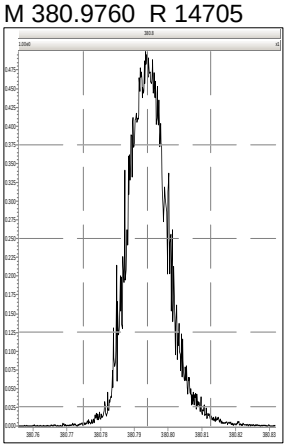
M 430.9728 R 12505



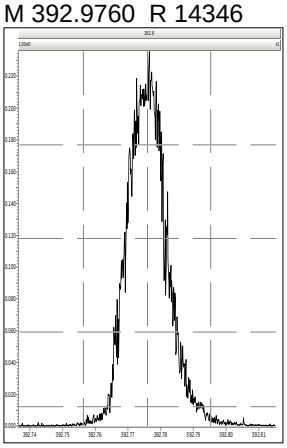
M 330.9792 R 15208



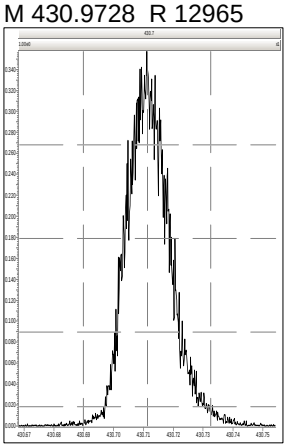
M 380.9760 R 14705



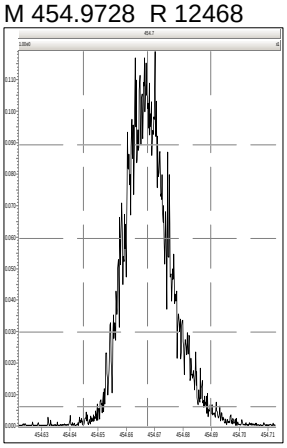
M 392.9760 R 14346



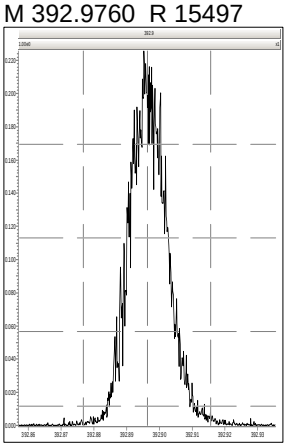
M 430.9728 R 12965



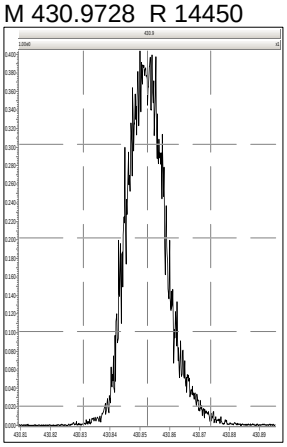
M 454.9728 R 12468



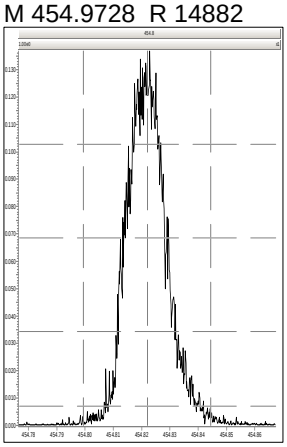
M 392.9760 R 15497



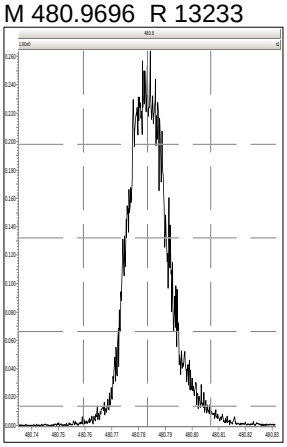
M 430.9728 R 14450



M 454.9728 R 14882

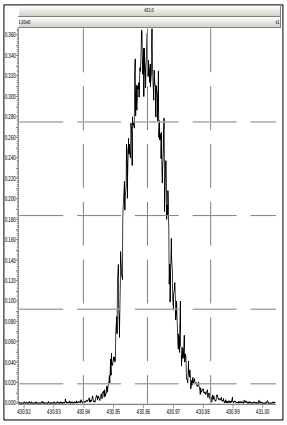


M 480.9696 R 13233

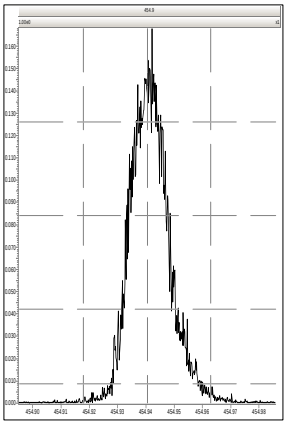


Printed: Monday, April 24, 2023 14:04:01 Pacific Daylight Time

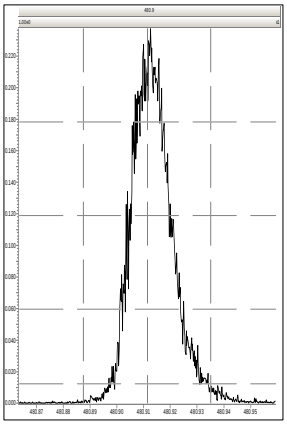
M 430.9728 R 15479



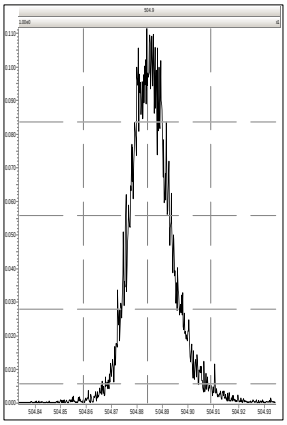
M 454.9728 R 14662



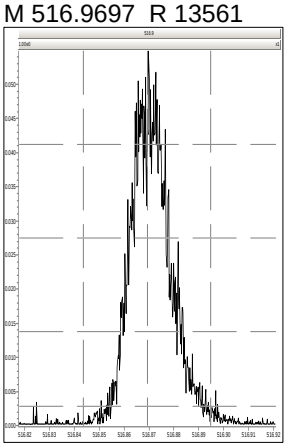
M 480.9696 R 13932

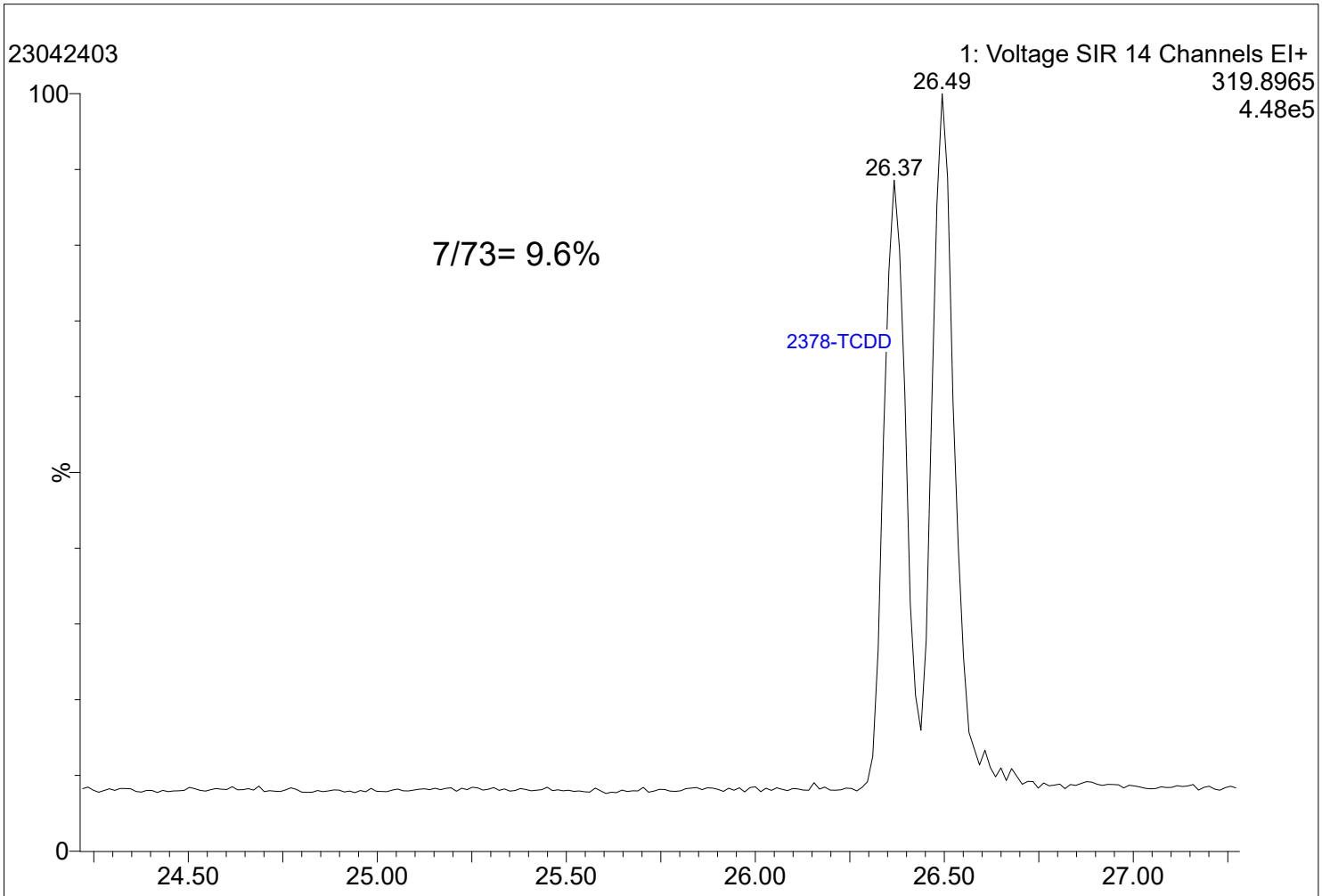


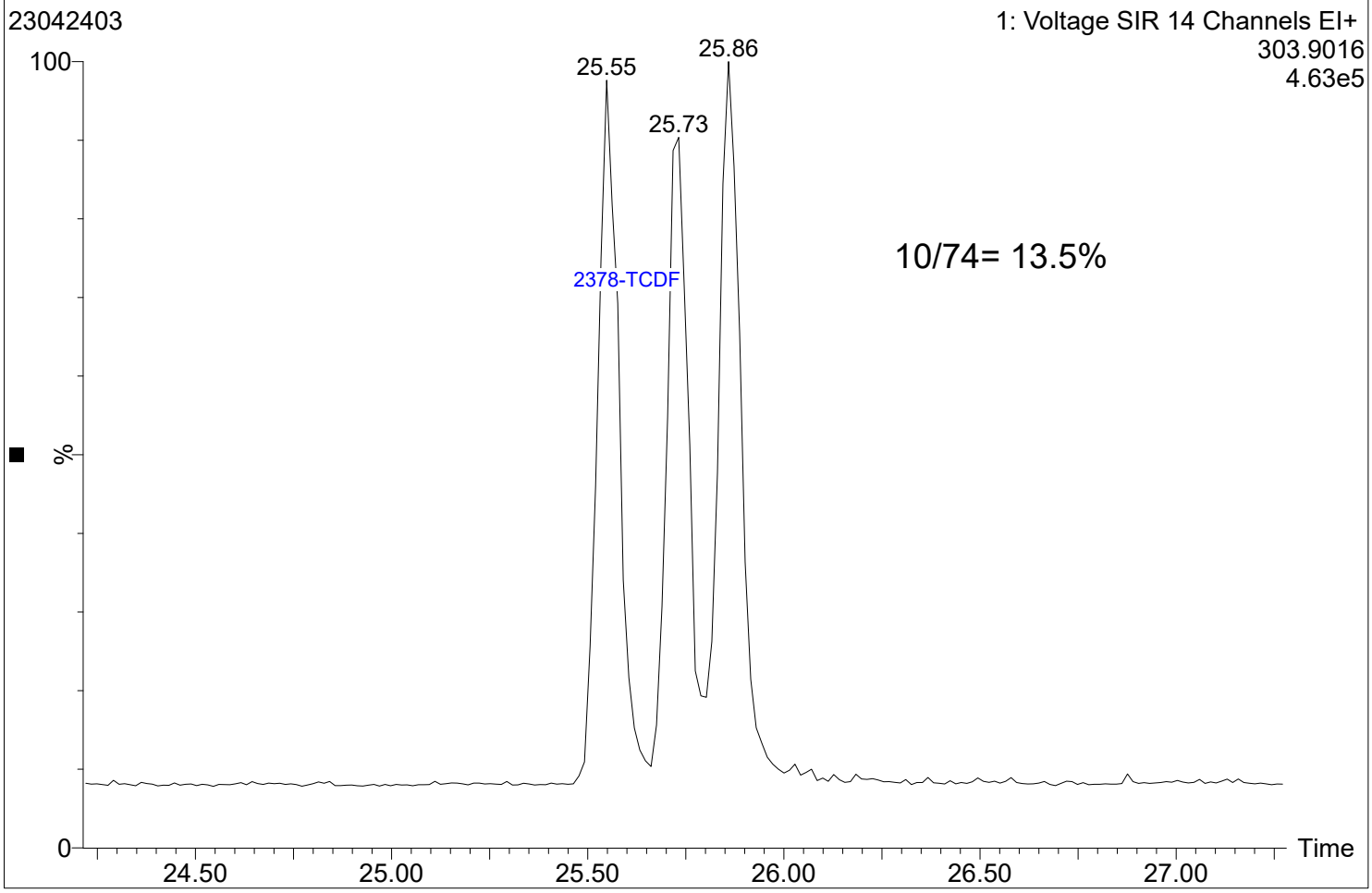
M 504.9696 R 13774



M 516.9697 R 13561




23042403
1: Voltage SIR 14 Channels EI+
319.8965
4.48e5
26.49
26.37
7/73= 9.6%
2378-TCDD
100
%
0
24.50
25.00
25.50
26.00
26.50
27.00


23042403
1: Voltage SIR 14 Channels EI+
303.9016
4.63e5
25.86
25.55
25.73
10/74= 13.5%
2378-TCDF
100
%
0
Time
24.50
25.00
25.50
26.00
26.50
27.00

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 1613B

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	AUTOSPEC01	Calibration:	GC00015
Lab File ID:	23030311	Calibration Date:	03/03/2023
Sequence:	SLC0045	Injection Date:	03/03/23
Lab Sample ID:	SLC0045-CCV1	Injection Time:	17:25
Sequence Name:	CS3V4		

		CONC. (ng/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
2,3,7,8-TCDF	A	10.000	10.1	0.7015272	0.7103909		1.3	+/-16
2,3,7,8-TCDD	A	10.000	9.02	1.1486620	1.0358000		-9.8	+/-22
1,2,3,7,8-PeCDF	A	50.000	47.7	0.6792300	0.6482723		-4.6	+/-18
2,3,4,7,8-PeCDF	A	50.000	48.6	0.7861704	0.7638484		-2.8	+/-18
1,2,3,7,8-PeCDD	A	50.000	50.8	1.0218450	1.0391930		1.7	+/-22
1,2,3,4,7,8-HxCDF	A	50.000	47.3	1.1660380	1.1031690		-5.4	+/-10
1,2,3,6,7,8-HxCDF	A	50.000	51.4	1.0907410	1.1209930		2.8	+/-12
2,3,4,6,7,8-HxCDF	A	50.000	52.1	1.1396990	1.1864330		4.1	+/-12
1,2,3,7,8,9-HxCDF	A	50.000	48.9	1.1370930	1.1121660		-2.2	+/-10
1,2,3,4,7,8-HxCDD	A	50.000	50.7	0.9955689	1.0094320		1.4	+/-22
1,2,3,6,7,8-HxCDD	A	50.000	51.1	1.0009380	1.0234880		2.3	+/-22
1,2,3,7,8,9-HxCDD	A	50.000	51.7	0.9071139	0.9383686		3.4	+/-18
1,2,3,4,6,7,8-HpCDF	A	50.000	47.7	1.0029930	0.9566603		-4.6	+/-10
1,2,3,4,7,8,9-HpCDF	A	50.000	53.6	0.9531152	1.0217610		7.2	+/-14
1,2,3,4,6,7,8-HpCDD	A	50.000	52.7	1.0390130	1.0955650		5.4	+/-14
OCDF	A	100.00	95.0	0.7778078	0.7390842		-5.0	+/-37
OCDD	A	100.00	97.1	0.9199537	0.8937318		-2.9	+/-21
13C12-2,3,7,8-TCDF	A	100.00	89.4	1.6201960	1.4487738		-10.6	+/-29
13C12-2,3,7,8-TCDD	A	100.00	86.0	1.1524090	0.9914363		-14.0	+/-18
13C12-1,2,3,7,8-PeCDF	A	100.00	92.6	1.2404520	1.1488109		-7.4	+/-24
13C12-2,3,4,7,8-PeCDF	A	100.00	91.6	1.1177860	1.0240744		-8.4	+/-23
13C12-1,2,3,7,8-PeCDD	A	100.00	90.8	0.8288129	0.7523463		-9.2	+/-38
13C12-1,2,3,4,7,8-HxCDF	A	100.00	95.2	1.1683050	1.1119828		-4.8	+/-24
13C12-1,2,3,6,7,8-HxCDF	A	100.00	91.1	1.3864660	1.2630996		-8.9	+/-30
13C12-2,3,4,6,7,8-HxCDF	A	100.00	96.9	1.1292560	1.0940819		-3.1	+/-27
13C12-1,2,3,7,8,9-HxCDF	A	100.00	101	0.9317541	0.9426254		1.2	+/-26
13C12-1,2,3,4,7,8-HxCDD	A	100.00	97.6	0.9950393	0.9710534		-2.4	+/-15
13C12-1,2,3,6,7,8-HxCDD	A	100.00	98.4	1.1566890	1.1378328		-1.6	+/-15
13C12-1,2,3,4,6,7,8-HpCDF	A	100.00	102	0.8952017	0.9116661		1.8	+/-22
13C12-1,2,3,4,7,8,9-HpCDF	A	100.00	84.3	0.7697516	0.6486548		-15.7	+/-23
13C12-1,2,3,4,6,7,8-HpCDD	A	100.00	92.0	0.8401226	0.7731635		-8.0	+/-28
13C12-OCDD	A	200.00	170	0.7674714	0.6532994		-14.9	+/-52
37Cl4-2,3,7,8-TCDD	A	10.000	7.54	1.2878040	0.9705402		-24.6	

* Values outside of QC limits

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

SECOND-SOURCE
CONTINUING CALIBRATION CHECK
EPA 1613B

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	AUTOSPEC01	Calibration:	GC00015
Lab File ID:	23030310	Calibration Date:	03/03/2023
Sequence:	SLC0045	Injection Date:	03/03/23
Lab Sample ID:	SLC0045-SCV1	Injection Time:	16:36
Sequence Name:	ICVCW		

		CONC. (ng/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
2,3,7,8-TCDF	A	10.000	9.84	0.7015272	0.6901560		-1.6	
2,3,7,8-TCDD	A	10.000	9.81	1.1486620	1.1273700		-1.9	
1,2,3,7,8-PeCDF	A	50.000	51.4	0.6792300	0.6981249		2.8	
2,3,4,7,8-PeCDF	A	50.000	49.0	0.7861704	0.7701368		-2.0	
1,2,3,7,8-PeCDD	A	50.000	48.5	1.0218450	0.9921504		-2.9	
1,2,3,4,7,8-HxCDF	A	50.000	48.2	1.1660380	1.1251100		-3.5	
1,2,3,6,7,8-HxCDF	A	50.000	48.0	1.0907410	1.0469270		-4.0	
2,3,4,6,7,8-HxCDF	A	50.000	50.2	1.1396990	1.1448090		0.4	
1,2,3,7,8,9-HxCDF	A	50.000	49.1	1.1370930	1.1161010		-1.8	
1,2,3,4,7,8-HxCDD	A	50.000	50.8	0.9955689	1.0114830		1.6	
1,2,3,6,7,8-HxCDD	A	50.000	50.2	1.0009380	1.0044310		0.3	
1,2,3,7,8,9-HxCDD	A	50.000	51.6	0.9071139	8347.938		3.2	
1,2,3,4,6,7,8-HpCDF	A	50.000	51.8	1.0029930	1.0398620		3.7	
1,2,3,4,7,8,9-HpCDF	A	50.000	48.5	0.9531152	0.9237809		-3.1	
1,2,3,4,6,7,8-HpCDD	A	50.000	49.2	1.0390130	1.0223590		-1.6	
OCDF	A	100.00	104	0.7778078	0.8050743		3.5	
OCDD	A	100.00	99.4	0.9199537	0.9146365		-0.6	
13C12-2,3,7,8-TCDF	A	100.00	96.9	1.6201960	1.5703703		-3.1	
13C12-2,3,7,8-TCDD	A	100.00	96.6	1.1524090	1.1130294		-3.4	
13C12-1,2,3,7,8-PeCDF	A	100.00	73.2	1.2404520	0.9079224		-26.8	
13C12-2,3,4,7,8-PeCDF	A	100.00	75.9	1.1177860	0.8488817		-24.1	
13C12-1,2,3,7,8-PeCDD	A	100.00	76.6	0.8288129	0.6346243		-23.4	
13C12-1,2,3,4,7,8-HxCDF	A	100.00	93.0	1.1683050	1.0861993		-7.0	
13C12-1,2,3,6,7,8-HxCDF	A	100.00	98.0	1.3864660	1.3581552		-2.0	
13C12-2,3,4,6,7,8-HxCDF	A	100.00	93.4	1.1292560	1.0544008		-6.6	
13C12-1,2,3,7,8,9-HxCDF	A	100.00	97.9	0.9317541	0.9122440		-2.1	
13C12-1,2,3,4,7,8-HxCDD	A	100.00	95.9	0.9950393	0.9546162		-4.1	
13C12-1,2,3,6,7,8-HxCDD	A	100.00	97.7	1.1566890	1.1296183		-2.3	
13C12-1,2,3,4,6,7,8-HpCDF	A	100.00	102	0.8952017	0.9144345		2.1	
13C12-1,2,3,4,7,8,9-HpCDF	A	100.00	104	0.7697516	0.8001798		4.0	
13C12-1,2,3,4,6,7,8-HpCDD	A	100.00	102	0.8401226	0.8609226		2.5	
13C12-OCDD	A	200.00	162	0.7674714	0.6199758		-19.2	
37Cl4-2,3,7,8-TCDD	A	10.000	8.71	1.2878040	1.1221835		-12.9	

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 1613B

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	AUTOSPEC01	Calibration:	GC00015
Lab File ID:	23042412	Calibration Date:	03/03/2023
Sequence:	SLD0330	Injection Date:	04/24/23
Lab Sample ID:	SLD0330-CCV1	Injection Time:	23:24
Sequence Name:	CS3H2		

		CONC. (ng/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
2,3,7,8-TCDF	A	10.000	9.90	0.7015272	0.6944122		-1.0	+/-16
2,3,7,8-TCDD	A	10.000	9.66	1.1486620	1.1101490		-3.4	+/-22
1,2,3,7,8-PeCDF	A	50.000	56.3	0.6792300	0.7652336		12.7	+/-18
2,3,4,7,8-PeCDF	A	50.000	55.8	0.7861704	0.8781388		11.7	+/-18
1,2,3,7,8-PeCDD	A	50.000	57.4	1.0218450	1.1726760		14.8	+/-22
1,2,3,4,7,8-HxCDF	A	50.000	46.9	1.1660380	1.0935520		-6.2	+/-10
1,2,3,6,7,8-HxCDF	A	50.000	52.3	1.0907410	1.1415920		4.7	+/-12
2,3,4,6,7,8-HxCDF	A	50.000	50.0	1.1396990	1.1392720		-0.04	+/-12
1,2,3,7,8,9-HxCDF	A	50.000	49.5	1.1370930	1.1248120		-1.1	+/-10
1,2,3,4,7,8-HxCDD	A	50.000	47.0	0.9955689	0.9355558		-6.0	+/-22
1,2,3,6,7,8-HxCDD	A	50.000	49.5	1.0009380	0.9911102		-1.0	+/-22
1,2,3,7,8,9-HxCDD	A	50.000	49.7	0.9071139	0.9020172		-0.6	+/-18
1,2,3,4,6,7,8-HpCDF	A	50.000	46.7	1.0029930	0.9368372		-6.6	+/-10
1,2,3,4,7,8,9-HpCDF	A	50.000	48.6	0.9531152	0.9263722		-2.8	+/-14
1,2,3,4,6,7,8-HpCDD	A	50.000	54.0	1.0390130	1.1219930		8.0	+/-14
OCDF	A	100.00	87.3	0.7778078	0.6788068		-12.7	+/-37
OCDD	A	100.00	95.5	0.9199537	0.8786901		-4.5	+/-21
13C12-2,3,7,8-TCDF	A	100.00	88.5	1.6201960	1.4340779		-11.5	+/-29
13C12-2,3,7,8-TCDD	A	100.00	95.3	1.1524090	1.0981698		-4.7	+/-18
13C12-1,2,3,7,8-PeCDF	A	100.00	101	1.2404520	1.2483417		0.6	+/-24
13C12-2,3,4,7,8-PeCDF	A	100.00	99.1	1.1177860	1.1081110		-0.9	+/-23
13C12-1,2,3,7,8-PeCDD	A	100.00	77.9	0.8288129	0.6459942		-22.1	+/-38
13C12-1,2,3,4,7,8-HxCDF	A	100.00	95.7	1.1683050	1.1184467		-4.3	+/-24
13C12-1,2,3,6,7,8-HxCDF	A	100.00	88.8	1.3864660	1.2306426		-11.2	+/-30
13C12-2,3,4,6,7,8-HxCDF	A	100.00	96.2	1.1292560	1.0862550		-3.8	+/-27
13C12-1,2,3,7,8,9-HxCDF	A	100.00	89.8	0.9317541	0.8363495		-10.2	+/-26
13C12-1,2,3,4,7,8-HxCDD	A	100.00	98.5	0.9950393	0.9802430		-1.5	+/-15
13C12-1,2,3,6,7,8-HxCDD	A	100.00	90.4	1.1566890	1.0460008		-9.6	+/-15
13C12-1,2,3,4,6,7,8-HpCDF	A	100.00	117	0.8952017	1.0438366		16.6	+/-22
13C12-1,2,3,4,7,8,9-HpCDF	A	100.00	98.2	0.7697516	0.7559233		-1.8	+/-23
13C12-1,2,3,4,6,7,8-HpCDD	A	100.00	92.2	0.8401226	0.7745414		-7.8	+/-28
13C12-OCDD	A	200.00	208	0.7674714	0.8000736		4.2	+/-52
37Cl4-2,3,7,8-TCDD	A	10.000	8.12	1.2878040	1.0462190		-18.8	

* Values outside of QC limits

* Values outside of QC limits

* Values outside of QC limits

Dataset: T:\Autospec\Processed Data Batch\230424D1.qld
Last Altered: Tuesday, April 25, 2023 10:49:58 Pacific Daylight Time
Printed: Tuesday, April 25, 2023 11:20:46 Pacific Daylight Time

Method: T:\Autospec\Methods\Dioxin230424.mdb 25 Apr 2023 07:59:40
Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 11:57:27

ID: CS3H2, Name: 23042412, Date: 24-Apr-2023, Time: 23:24:30, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	25.704	1.001	3.678e4	4.731e4	0.702	0.777	0.770	1440	1836	5.20e5	7.00e5	361.4	381.1	NO	bb	bb	9.899
12378-PeCDF	29.855	1.001	2.454e5	1.580e5	0.679	1.554	1.550	3525	2680	3.63e6	2.26e6	1029.9	845.0	NO	bb	bb	56.331
23478-PeCDF	31.192	1.001	2.490e5	1.619e5	0.786	1.538	1.550	3525	2680	3.77e6	2.46e6	1070.2	917.5	NO	bb	bb	55.849
123478-HxCDF	34.813	1.001	2.320e5	1.889e5	1.166	1.228	1.240	2316	2449	3.52e6	2.86e6	1520.9	1167.0	NO	bd	bd	46.892
234678-HxCDF	35.816	1.000	2.453e5	1.806e5	1.140	1.358	1.240	2316	2449	3.44e6	2.76e6	1483.4	1126.2	NO	bb	bb	49.981
123678-HxCDF	34.947	1.000	2.603e5	2.231e5	1.091	1.167	1.240	2316	2449	3.51e6	2.94e6	1514.7	1201.4	NO	db	dd	52.331
123789-HxCDF	36.852	1.001	1.767e5	1.470e5	1.137	1.202	1.240	2316	2449	2.45e6	1.97e6	1058.6	806.2	NO	bb	bd	49.460
1234678-HpCDF	38.679	1.000	1.708e5	1.657e5	1.003	1.031	1.050	2163	2322	2.72e6	2.63e6	1256.7	1132.0	NO	bb	bb	46.702
1234789-HpCDF	40.918	1.000	1.234e5	1.176e5	0.953	1.050	1.050	2163	2322	1.67e6	1.60e6	771.8	687.0	NO	bb	bb	48.597
OCDF	45.125	1.006	1.781e5	1.957e5	0.778	0.910	0.890	1519	1933	2.10e6	2.24e6	1384.7	1160.2	NO	bb	bb	87.272
2378-TCDD	26.339	1.000	4.559e4	5.736e4	1.149	0.795	0.770	1292	867	6.27e5	8.29e5	485.5	956.1	NO	dd	bd	9.665
12378-PeCDD	31.448	1.001	1.924e5	1.274e5	1.022	1.510	1.550	2370	2511	2.79e6	1.84e6	1175.9	734.7	NO	bb	bb	57.380
123478-HxCDD	35.927	1.000	1.754e5	1.401e5	0.996	1.252	1.240	2005	2287	2.65e6	2.12e6	1322.4	926.1	NO	bd	bd	46.986
123678-HxCDD	36.050	1.000	1.957e5	1.611e5	1.001	1.215	1.240	2005	2287	2.96e6	2.38e6	1478.3	1038.5	NO	db	db	49.509
123789-HxCDD	36.429	1.011	1.757e5	1.388e5	0.907	1.266	1.240	2005	2287	2.56e6	2.00e6	1274.7	876.6	NO	bb	bb	49.719
1234678-HpCDD	40.183	1.001	1.573e5	1.417e5	1.039	1.110	1.050	2643	2502	2.00e6	1.94e6	756.6	774.5	NO	bd	bb	53.993
OCDD	44.878	1.000	2.227e5	2.611e5	0.920	0.853	0.890	2770	2117	2.51e6	2.90e6	908.1	1371.8	NO	bb	bb	95.515
13C-2378-TCDF	25.690	1.007	5.192e5	6.918e5	1.620	0.751	0.770	1213	1425	7.10e6	9.32e6	5851.9	6542.2	NO	bb	bb	88.513
13C-12378-PeCDF	29.833	1.170	6.392e5	4.150e5	1.240	1.540	1.550	3491	2952	8.87e6	5.76e6	2540.2	1952.4	NO	bd	bd	100.636
13C-23478-PeCDF	31.170	1.222	5.631e5	3.726e5	1.118	1.511	1.550	3491	2952	8.12e6	5.43e6	2326.3	1838.4	NO	bb	bb	99.135
13C-123478-HxCDF	34.791	0.955	2.582e5	5.115e5	1.168	0.505	0.510	2127	2447	3.82e6	7.50e6	1796.8	3066.5	NO	bd	bd	95.732
13C-123678-HxCDF	34.936	0.959	2.870e5	5.600e5	1.386	0.512	0.510	2127	2447	4.14e6	8.07e6	1948.4	3299.1	NO	db	db	88.761
13C-234678-HxCDF	35.805	0.983	2.543e5	4.933e5	1.129	0.516	0.510	2127	2447	3.70e6	7.15e6	1738.0	2922.2	NO	bb	bb	96.192
13C-123789-HxCDF	36.830	1.011	1.954e5	3.802e5	0.932	0.514	0.510	2127	2447	2.70e6	5.21e6	1269.2	2130.1	NO	bb	bb	89.761
13C-1234678-HpCDF	38.668	1.062	2.222e5	4.962e5	0.895	0.448	0.440	2260	4531	3.37e6	7.59e6	1489.3	1675.0	NO	bb	bb	116.603
13C-1234789-HpCDF	40.907	1.123	1.583e5	3.620e5	0.770	0.437	0.440	2260	4531	1.98e6	4.49e6	874.1	991.1	NO	bd	bd	98.204
13C-1234-TCDD	25.506	0.000	3.766e5	4.679e5	1.000	0.805	0.770	2079	1360	5.54e6	7.02e6	2662.2	5158.3	NO	bb	bb	100.000
13C-2378-TCDD	26.325	1.032	4.067e5	5.206e5	1.152	0.781	0.770	2079	1360	5.72e6	7.29e6	2750.3	5357.6	NO	bb	bb	95.293
13C-12378-PeCDD	31.426	1.232	3.390e5	2.065e5	0.829	1.641	1.550	962	1072	4.67e6	2.81e6	4851.1	2621.8	NO	bb	bb	77.942
13C-123478-HxCDD	35.916	0.986	3.819e5	2.927e5	0.995	1.305	1.240	1834	2085	5.84e6	4.66e6	3183.8	2236.6	NO	bd	bd	98.513
13C-123678-HxCDD	36.039	0.990	3.995e5	3.204e5	1.157	1.247	1.240	1834	2085	5.78e6	4.67e6	3150.0	2241.3	NO	db	db	90.431
13C-1234678-HpCDD	40.161	1.103	2.771e5	2.560e5	0.840	1.082	1.050	2022	1617	3.64e6	3.40e6	1801.8	2103.7	NO	bb	bb	92.194
13C-OCDD	44.869	1.232	5.250e5	5.762e5	0.767	0.911	0.890	2028	1780	5.48e6	6.10e6	2702.4	3427.4	NO	bd	bd	208.496
13C-123789-HxCDD	36.417	0.000	3.813e5	3.069e5	1.000	1.242	1.240	1834	2085	5.53e6	4.50e6	3013.8	2159.7	NO	bb	bb	100.000
37CL-2378-TCDD	26.339	1.033	8.835e4		1.288			2377		1.29e6		543.0			bb		8.124

Dataset: T:\Autospec\Processed Data Batch\230424D1.qld
Last Altered: Tuesday, April 25, 2023 10:49:58 Pacific Daylight Time
Printed: Tuesday, April 25, 2023 11:20:46 Pacific Daylight Time

ID: CS3H2, Name: 23042412, Date: 24-Apr-2023, Time: 23:24:30, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF	22.201	0.864	4.790e4	6.389e4	0.802	0.750	0.770	1440	1836	7.13e5	9.66e5	495.3	526.0	NO	bb	bb	11.517
1289-TCDF	27.201	1.059	3.337e4	4.363e4	0.678	0.765	0.770	1440	1836	4.79e5	6.06e5	332.9	330.2	NO	bb	db	9.379
13468-PECDF	27.045	0.907	3.976e5	2.639e5	1.246	1.506	1.550	637	1093	5.89e6	3.93e6	9257.2	3598.4	NO	bb	bb	50.342
12389-PECDF	32.228	1.080	2.091e5	1.391e5	0.496	1.503	1.550	3525	2680	3.04e6	1.99e6	861.8	742.0	NO	bb	bb	66.540
123468-HXCDF	33.142	0.953	2.542e5	2.011e5	1.169	1.264	1.240	2316	2449	3.58e6	2.90e6	1545.5	1184.2	NO	bb	bb	50.598
1368-TCDD	23.472	0.892	4.390e4	5.724e4	1.015	0.767	0.770	1292	867	6.60e5	8.76e5	511.2	1010.3	NO	bb	bd	10.740
1289-TCDD	26.933	1.023	3.732e4	4.813e4	0.909	0.775	0.770	1292	867	5.14e5	6.47e5	397.9	745.5	NO	bb	bd	10.140
12479-PECDD	28.719	0.914	3.406e5	2.207e5	2.301	1.543	1.550	2370	2511	3.29e6	2.13e6	1389.9	848.4	NO	bb	bb	44.703
12389-PECDD	31.838	1.013	2.192e5	1.406e5	1.184	1.559	1.550	2370	2511	3.19e6	2.08e6	1347.9	828.5	NO	bb	bb	55.717
124679-HXCDD	33.922	0.945	2.153e5	1.672e5	1.115	1.287	1.240	2005	2287	3.01e6	2.40e6	1503.8	1047.6	NO	bd	bb	50.838
1234679-HPCDD	39.136	0.975	1.664e5	1.630e5	1.137	1.021	1.050	2643	2502	2.61e6	2.50e6	986.1	1000.2	NO	bb	bb	54.361
Total-tetrafurans			1.184e5		0.727			1440		1.72e6							30.876
Total-penta1			3.976e5					637		5.89e6							50.342
Total-pentafurans			7.454e5		0.654			3525		1.11e7							189.374
Total-hexafurans			1.168e6		1.141			2316		1.65e7							249.262
Total-heptafurans			2.945e5		0.978			2163		4.40e6							95.381
Total-Furans			2.902e6		0.922			1440		4.17e7							702.506
Total-tetradioxins			2.170e5		1.024			1292		2.81e6							51.811
Total-pentadioxins			7.521e5		1.502			2370		9.27e6							157.801
Total-hexadioxins			7.622e5		1.005			2005		1.12e7							197.052
Total-heptadioxins			3.237e5		1.088			2643		4.61e6							108.355
Total-Dioxins			2.278e6		1.130			1292		3.04e7							610.532
Total-TEQ			5.180e6					1292		7.21e7							1313.038
FUNCTION1 PFK			6.636e5					387587		1.62e7							
FUNCTION2 PFK			1.514e5					227864		5.24e6							0.000
FUNCTION3 PFK			4.502e6					272014		9.44e6							0.000
FUNCTION4 PFK			0.000e0					216462		0.00e0							
FUNCTION5 PFK			6.120e4					162318		2.36e6							
FUNCTION1 HXCD...			4.242e2					770		6.02e3							0.000
FUNCTION1 HPCD...																	
FUNCTION2 HPCD...			9.470e2					1334		2.38e4							0.000
FUNCTION3 OCDPE			0.000e0					547		0.00e0							
FUNCTION4 NCDPE			2.240e2					626		3.64e3							0.000
FUNCTION5 DCDPE			8.616e1					598		1.48e3							0.000

Method: T:\Autospec\Methods\Dioxin230424.mdb 25 Apr 2023 07:59:40
Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 11:57:27

ID: CS3H2, Name: 23042412, Date: 24-Apr-2023, Time: 23:24:30, Conditions: AUTOSPEC01, User: pk

TF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.20	3.337e4	4.363e4	0.678	0.76	0.77	332.9	YES	NO	bb	db	9.379
2	2378-TCDF	25.70	3.678e4	4.731e4	0.702	0.78	0.77	361.4	YES	NO	bb	bb	9.899
3	Total-tetrafurans	24.47	3.025e2	4.142e2	0.727	0.73	0.77	2.7	NO	NO	bb	bb	0.081
4	1368-TCDF	22.20	4.790e4	6.389e4	0.802	0.75	0.77	495.3	YES	NO	bb	bb	11.517

PP

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	13468-PECDF	27.05	3.976e5	2.639e5	1.246	1.51	1.55	9257.2	YES	NO	bb	bb	50.342

PF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	23478-PeCDF	31.19	2.490e5	1.619e5	0.786	1.54	1.55	1070.2	YES	NO	bb	bb	55.849
2	12378-PeCDF	29.86	2.454e5	1.580e5	0.679	1.55	1.55	1029.9	YES	NO	bb	bb	56.331
3	Total-pentafurans	28.71	4.195e4	2.737e4	0.654	1.53	1.55	177.1	YES	NO	bb	bb	10.654
4	12389-PECDF	32.23	2.091e5	1.391e5	0.496	1.50	1.55	861.8	YES	NO	bb	bb	66.540

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDF	36.85	1.767e5	1.470e5	1.137	1.20	1.24	1058.6	YES	NO	bb	bd	49.460
2	234678-HxCDF	35.82	2.453e5	1.806e5	1.140	1.36	1.24	1483.4	YES	NO	bb	bb	49.981
3	123678-HxCDF	34.95	2.603e5	2.231e5	1.091	1.17	1.24	1514.7	YES	NO	db	dd	52.331
4	123478-HxCDF	34.81	2.320e5	1.889e5	1.166	1.23	1.24	1520.9	YES	NO	bd	bd	46.892
5	123468-HXCDF	33.14	2.542e5	2.011e5	1.169	1.26	1.24	1545.5	YES	NO	bb	bb	50.598

HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-heptafurans	41.20	2.571e2	2.382e2	0.978	1.08	1.05	4.8	NO	NO	bb	bb	0.082
2	1234789-HpCDF	40.92	1.234e5	1.176e5	0.953	1.05	1.05	771.8	YES	NO	bb	bb	48.597
3	1234678-HpCDF	38.68	1.708e5	1.657e5	1.003	1.03	1.05	1256.7	YES	NO	bb	bb	46.702

ID: CS3H2, Name: 23042412, Date: 24-Apr-2023, Time: 23:24:30, Conditions: AUTOSPEC01, User: pk

Furans,TF,PP,PF,HF,HPF,OF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.20	3.337e4	4.363e4	0.678	0.76	0.77	332.9	YES	NO	bb	db	9.379
2	2378-TCDF	25.70	3.678e4	4.731e4	0.702	0.78	0.77	361.4	YES	NO	bb	bb	9.899
3	Total-tetrafurans	24.47	3.025e2	4.142e2	0.727	0.73	0.77	2.7	NO	NO	bb	bb	0.081
4	1368-TCDF	22.20	4.790e4	6.389e4	0.802	0.75	0.77	495.3	YES	NO	bb	bb	11.517
5	23478-PeCDF	31.19	2.490e5	1.619e5	0.786	1.54	1.55	1070.2	YES	NO	bb	bb	55.849
6	12378-PeCDF	29.86	2.454e5	1.580e5	0.679	1.55	1.55	1029.9	YES	NO	bb	bb	56.331
7	Total-pentafurans	28.71	4.195e4	2.737e4	0.654	1.53	1.55	177.1	YES	NO	bb	bb	10.654
8	12389-PECDF	32.23	2.091e5	1.391e5	0.496	1.50	1.55	861.8	YES	NO	bb	bb	66.540
9	123789-HxCDF	36.85	1.767e5	1.470e5	1.137	1.20	1.24	1058.6	YES	NO	bb	bd	49.460
10	234678-HxCDF	35.82	2.453e5	1.806e5	1.140	1.36	1.24	1483.4	YES	NO	bb	bb	49.981
11	123678-HxCDF	34.95	2.603e5	2.231e5	1.091	1.17	1.24	1514.7	YES	NO	db	dd	52.331
12	123478-HxCDF	34.81	2.320e5	1.889e5	1.166	1.23	1.24	1520.9	YES	NO	bd	bd	46.892
13	123468-HXCDF	33.14	2.542e5	2.011e5	1.169	1.26	1.24	1545.5	YES	NO	bb	bb	50.598
14	Total-heptafurans	41.20	2.571e2	2.382e2	0.978	1.08	1.05	4.8	NO	NO	bb	bb	0.082
15	1234789-HpCDF	40.92	1.234e5	1.176e5	0.953	1.05	1.05	771.8	YES	NO	bb	bb	48.597
16	1234678-HpCDF	38.68	1.708e5	1.657e5	1.003	1.03	1.05	1256.7	YES	NO	bb	bb	46.702
17	OCDF	45.13	1.781e5	1.957e5	0.778	0.91	0.89	1384.7	YES	NO	bb	bb	87.272
18	13468-PECDF	27.05	3.976e5	2.639e5	1.246	1.51	1.55	9257.2	YES	NO	bb	bb	50.342

TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetradioxins	25.53	2.156e4	2.753e4	1.024	0.78	0.77	238.1	YES	NO	bd	bd	5.168
2	Total-tetradioxins	24.67	2.176e3	2.700e3	1.024	0.81	0.77	15.3	YES	NO	bd	bb	0.513
3	1368-TCDD	23.47	4.390e4	5.724e4	1.015	0.77	0.77	511.2	YES	NO	bb	bd	10.740
4	1289-TCDD	26.93	3.732e4	4.813e4	0.909	0.78	0.77	397.9	YES	NO	bb	bd	10.140
5	2378-TCDD	26.34	4.559e4	5.736e4	1.149	0.79	0.77	485.5	YES	NO	dd	bd	9.665
6	Total-tetradioxins	26.01	6.647e4	8.157e4	1.024	0.81	0.77	526.8	YES	NO	dd	bb	15.585

PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12389-PECDD	31.84	2.192e5	1.406e5	1.184	1.56	1.55	1347.9	YES	NO	bb	bb	55.717
2	12378-PeCDD	31.45	1.924e5	1.274e5	1.022	1.51	1.55	1175.9	YES	NO	bb	bb	57.380
3	12479-PECDD	28.72	3.406e5	2.207e5	2.301	1.54	1.55	1389.9	YES	NO	bb	bb	44.703

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HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	124679-HXCDD	33.92	2.153e5	1.672e5	1.115	1.29	1.24	1503.8	YES	NO	bd	bb	50.838
2	123789-HxCDD	36.43	1.757e5	1.388e5	0.907	1.27	1.24	1274.7	YES	NO	bb	bb	49.719
3	123678-HxCDD	36.05	1.957e5	1.611e5	1.001	1.22	1.24	1478.3	YES	NO	db	db	49.509
4	123478-HxCDD	35.93	1.754e5	1.401e5	0.996	1.25	1.24	1322.4	YES	NO	bd	bd	46.986

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	40.18	1.573e5	1.417e5	1.039	1.11	1.05	756.6	YES	NO	bd	bb	53.993
2	1234679-HPCDD	39.14	1.664e5	1.630e5	1.137	1.02	1.05	986.1	YES	NO	bb	bb	54.361

Dioxins,TD,PD,HD,HPD,OD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-tetradioxins	25.53	2.156e4	2.753e4	1.024	0.78	0.77	238.1	YES	NO	bd	bd	5.168
2	Total-tetradioxins	24.67	2.176e3	2.700e3	1.024	0.81	0.77	15.3	YES	NO	bd	bb	0.513
3	1368-TCDD	23.47	4.390e4	5.724e4	1.015	0.77	0.77	511.2	YES	NO	bb	bd	10.740
4	1289-TCDD	26.93	3.732e4	4.813e4	0.909	0.78	0.77	397.9	YES	NO	bb	bd	10.140
5	2378-TCDD	26.34	4.559e4	5.736e4	1.149	0.79	0.77	485.5	YES	NO	dd	bd	9.665
6	Total-tetradioxins	26.01	6.647e4	8.157e4	1.024	0.81	0.77	526.8	YES	NO	dd	bb	15.585
7	12389-PECDD	31.84	2.192e5	1.406e5	1.184	1.56	1.55	1347.9	YES	NO	bb	bb	55.717
8	12378-PeCDD	31.45	1.924e5	1.274e5	1.022	1.51	1.55	1175.9	YES	NO	bb	bb	57.380
9	12479-PECDD	28.72	3.406e5	2.207e5	2.301	1.54	1.55	1389.9	YES	NO	bb	bb	44.703
10	124679-HXCDD	33.92	2.153e5	1.672e5	1.115	1.29	1.24	1503.8	YES	NO	bd	bb	50.838
11	123789-HxCDD	36.43	1.757e5	1.388e5	0.907	1.27	1.24	1274.7	YES	NO	bb	bb	49.719
12	123678-HxCDD	36.05	1.957e5	1.611e5	1.001	1.22	1.24	1478.3	YES	NO	db	db	49.509
13	123478-HxCDD	35.93	1.754e5	1.401e5	0.996	1.25	1.24	1322.4	YES	NO	bd	bd	46.986
14	1234678-HpCDD	40.18	1.573e5	1.417e5	1.039	1.11	1.05	756.6	YES	NO	bd	bb	53.993
15	1234679-HPCDD	39.14	1.664e5	1.630e5	1.137	1.02	1.05	986.1	YES	NO	bb	bb	54.361
16	OCDD	44.88	2.227e5	2.611e5	0.920	0.85	0.89	908.1	YES	NO	bb	bb	95.515

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TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.20	3.337e4	4.363e4	0.678	0.76	0.77	332.9	YES	NO	bb	db	9.379
2	2378-TCDF	25.70	3.678e4	4.731e4	0.702	0.78	0.77	361.4	YES	NO	bb	bb	9.899
3	Total-tetrafurans	24.47	3.025e2	4.142e2	0.727	0.73	0.77	2.7	NO	NO	bb	bb	0.081
4	1368-TCDF	22.20	4.790e4	6.389e4	0.802	0.75	0.77	495.3	YES	NO	bb	bb	11.517
5	23478-PeCDF	31.19	2.490e5	1.619e5	0.786	1.54	1.55	1070.2	YES	NO	bb	bb	55.849
6	12378-PeCDF	29.86	2.454e5	1.580e5	0.679	1.55	1.55	1029.9	YES	NO	bb	bb	56.331
7	Total-pentafurans	28.71	4.195e4	2.737e4	0.654	1.53	1.55	177.1	YES	NO	bb	bb	10.654
8	12389-PECDF	32.23	2.091e5	1.391e5	0.496	1.50	1.55	861.8	YES	NO	bb	bb	66.540
9	123789-HxCDF	36.85	1.767e5	1.470e5	1.137	1.20	1.24	1058.6	YES	NO	bb	bd	49.460
10	234678-HxCDF	35.82	2.453e5	1.806e5	1.140	1.36	1.24	1483.4	YES	NO	bb	bb	49.981
11	123678-HxCDF	34.95	2.603e5	2.231e5	1.091	1.17	1.24	1514.7	YES	NO	db	dd	52.331
12	123478-HxCDF	34.81	2.320e5	1.889e5	1.166	1.23	1.24	1520.9	YES	NO	bd	bd	46.892
13	123468-HXCDF	33.14	2.542e5	2.011e5	1.169	1.26	1.24	1545.5	YES	NO	bb	bb	50.598
14	Total-heptafurans	41.20	2.571e2	2.382e2	0.978	1.08	1.05	4.8	NO	NO	bb	bb	0.082
15	1234789-HpCDF	40.92	1.234e5	1.176e5	0.953	1.05	1.05	771.8	YES	NO	bb	bb	48.597
16	1234678-HpCDF	38.68	1.708e5	1.657e5	1.003	1.03	1.05	1256.7	YES	NO	bb	bb	46.702
17	OCDF	45.13	1.781e5	1.957e5	0.778	0.91	0.89	1384.7	YES	NO	bb	bb	87.272
18	13468-PECDF	27.05	3.976e5	2.639e5	1.246	1.51	1.55	9257.2	YES	NO	bb	bb	50.342
19	Total-tetradioxins	25.53	2.156e4	2.753e4	1.024	0.78	0.77	238.1	YES	NO	bd	bd	5.168
20	Total-tetradioxins	24.67	2.176e3	2.700e3	1.024	0.81	0.77	15.3	YES	NO	bd	bb	0.513
21	1368-TCDD	23.47	4.390e4	5.724e4	1.015	0.77	0.77	511.2	YES	NO	bb	bd	10.740
22	1289-TCDD	26.93	3.732e4	4.813e4	0.909	0.78	0.77	397.9	YES	NO	bb	bd	10.140
23	2378-TCDD	26.34	4.559e4	5.736e4	1.149	0.79	0.77	485.5	YES	NO	dd	bd	9.665
24	Total-tetradioxins	26.01	6.647e4	8.157e4	1.024	0.81	0.77	526.8	YES	NO	dd	bb	15.585
25	12389-PECDD	31.84	2.192e5	1.406e5	1.184	1.56	1.55	1347.9	YES	NO	bb	bb	55.717
26	12378-PeCDD	31.45	1.924e5	1.274e5	1.022	1.51	1.55	1175.9	YES	NO	bb	bb	57.380
27	12479-PECDD	28.72	3.406e5	2.207e5	2.301	1.54	1.55	1389.9	YES	NO	bb	bb	44.703
28	124679-HXCDD	33.92	2.153e5	1.672e5	1.115	1.29	1.24	1503.8	YES	NO	bd	bb	50.838
29	123789-HxCDD	36.43	1.757e5	1.388e5	0.907	1.27	1.24	1274.7	YES	NO	bb	bb	49.719
30	123678-HxCDD	36.05	1.957e5	1.611e5	1.001	1.22	1.24	1478.3	YES	NO	db	db	49.509
31	123478-HxCDD	35.93	1.754e5	1.401e5	0.996	1.25	1.24	1322.4	YES	NO	bd	bd	46.986
32	1234678-HpCDD	40.18	1.573e5	1.417e5	1.039	1.11	1.05	756.6	YES	NO	bd	bb	53.993
33	1234679-HPCDD	39.14	1.664e5	1.630e5	1.137	1.02	1.05	986.1	YES	NO	bb	bb	54.361
34	OCDD	44.88	2.227e5	2.611e5	0.920	0.85	0.89	908.1	YES	NO	bb	bb	95.515

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PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	22.65	3.183e4					1.3	NO		bb		
2	FUNCTION1 PFK	22.53	2.529e4					1.2	NO		bb		
3	FUNCTION1 PFK	22.43	1.256e4					1.1	NO		bb		
4	FUNCTION1 PFK	22.07	2.699e4					1.4	NO		bb		
5	FUNCTION1 PFK	21.89	4.939e4					1.4	NO		db		
6	FUNCTION1 PFK	21.85	1.044e4					0.8	NO		bd		
7	FUNCTION1 PFK	21.68	4.560e3					0.6	NO		bb		
8	FUNCTION1 PFK	21.62	2.578e3					0.4	NO		db		
9	FUNCTION1 PFK	21.58	3.454e3					0.5	NO		bd		
10	FUNCTION1 PFK	21.31	3.385e4					1.7	NO		bb		
11	FUNCTION1 PFK	21.21	6.306e3					1.2	NO		bb		
12	FUNCTION1 PFK	21.16	2.232e4					1.9	NO		bb		
13	FUNCTION1 PFK	25.42	1.900e4					1.2	NO		dd		
14	FUNCTION1 PFK	25.35	1.455e4					1.3	NO		dd		
15	FUNCTION1 PFK	25.27	1.578e4					1.0	NO		bd		
16	FUNCTION1 PFK	24.98	1.538e4					1.2	NO		db		
17	FUNCTION1 PFK	24.90	3.355e4					1.3	NO		dd		
18	FUNCTION1 PFK	24.76	2.780e4					1.0	NO		bd		
19	FUNCTION1 PFK	24.56	6.805e3					0.7	NO		bb		
20	FUNCTION1 PFK	24.50	1.898e3					0.3	NO		bb		
21	FUNCTION1 PFK	24.31	1.206e4					0.9	NO		db		
22	FUNCTION1 PFK	24.25	2.636e4					1.6	NO		dd		
23	FUNCTION1 PFK	24.16	1.391e4					0.9	NO		bd		
24	FUNCTION1 PFK	23.80	1.506e4					1.1	NO		db		
25	FUNCTION1 PFK	23.73	1.947e4					1.1	NO		bd		
26	FUNCTION1 PFK	23.47	1.166e4					0.8	NO		bb		
27	FUNCTION1 PFK	23.36	1.248e4					0.9	NO		bb		
28	FUNCTION1 PFK	22.91	1.129e4					0.9	NO		bb		
29	FUNCTION1 PFK	27.92	2.354e4					0.9	NO		bb		
30	FUNCTION1 PFK	27.41	2.068e4					1.8	NO		db		
31	FUNCTION1 PFK	27.37	1.960e4					1.4	NO		bd		
32	FUNCTION1 PFK	27.27	7.930e3					0.7	NO		bb		
33	FUNCTION1 PFK	27.00	1.367e4					1.0	NO		bb		
34	FUNCTION1 PFK	26.89	5.019e3					0.6	NO		bb		
35	FUNCTION1 PFK	26.68	4.925e3					0.5	NO		bb		
36	FUNCTION1 PFK	26.42	2.049e4					0.8	NO		bb		
37	FUNCTION1 PFK	26.30	1.658e4					0.6	NO		bb		

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PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	FUNCTION1 PFK	26.24	1.017e4					1.0	NO		bb		
39	FUNCTION1 PFK	25.89	1.099e4					1.1	NO		bb		
40	FUNCTION1 PFK	25.56	8.447e3					0.8	NO		bb		
41	FUNCTION1 PFK	25.48	1.490e4					1.0	NO		db		

PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	28.26	1.221e4					1.4	NO		bb		0.000
2	FUNCTION2 PFK	28.07	1.329e3					0.5	NO		bb		0.000
3	FUNCTION2 PFK	31.99	6.583e3					1.0	NO		bb		0.000
4	FUNCTION2 PFK	31.84	5.849e3					0.8	NO		bb		0.000
5	FUNCTION2 PFK	31.74	3.066e3					0.6	NO		bb		0.000
6	FUNCTION2 PFK	31.62	1.964e3					0.8	NO		bb		0.000
7	FUNCTION2 PFK	31.53	3.164e3					0.8	NO		bb		0.000
8	FUNCTION2 PFK	31.40	1.082e4					0.9	NO		bb		0.000
9	FUNCTION2 PFK	30.98	3.405e3					0.7	NO		bb		0.000
10	FUNCTION2 PFK	30.87	1.150e3					0.5	NO		bb		0.000
11	FUNCTION2 PFK	30.61	1.615e3					0.6	NO		bb		0.000
12	FUNCTION2 PFK	30.29	3.557e3					0.9	NO		bb		0.000
13	FUNCTION2 PFK	29.80	1.469e4					2.1	NO		bb		0.000
14	FUNCTION2 PFK	29.54	1.431e4					1.0	NO		bb		0.000
15	FUNCTION2 PFK	29.37	9.278e3					1.2	NO		bb		0.000
16	FUNCTION2 PFK	29.20	6.507e3					1.2	NO		bb		0.000
17	FUNCTION2 PFK	28.98	4.838e3					1.1	NO		bb		0.000
18	FUNCTION2 PFK	28.52	7.941e3					1.3	NO		bb		0.000
19	FUNCTION2 PFK	32.60	1.864e3					0.5	NO		bb		0.000
20	FUNCTION2 PFK	32.41	8.213e3					1.2	NO		db		0.000
21	FUNCTION2 PFK	32.36	2.329e4					2.4	NO		bd		0.000
22	FUNCTION2 PFK	32.30	4.193e3					0.9	NO		bb		0.000
23	FUNCTION2 PFK	32.25	1.573e3					0.6	NO		bb		0.000

PFK3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	37.22	2.092e6					10.9	YES		bb		0.000
2	FUNCTION3 PFK	36.57	2.410e6					23.8	YES		bb		0.000

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PFK4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

PFK5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	44.44	4.109e3					1.1	NO		bd		
2	FUNCTION5 PFK	43.49	9.665e3					1.1	NO		db		
3	FUNCTION5 PFK	43.42	6.455e3					1.4	NO		bd		
4	FUNCTION5 PFK	43.37	2.249e3					0.7	NO		bb		
5	FUNCTION5 PFK	43.17	6.893e2					0.5	NO		bb		
6	FUNCTION5 PFK	43.10	5.581e3					1.7	NO		bb		
7	FUNCTION5 PFK	45.82	6.716e3					1.7	NO		bb		
8	FUNCTION5 PFK	45.78	5.843e3					1.4	NO		bb		
9	FUNCTION5 PFK	45.34	2.140e3					0.7	NO		bb		
10	FUNCTION5 PFK	45.22	1.137e4					2.1	NO		bb		
11	FUNCTION5 PFK	44.94	4.435e3					1.4	NO		bb		
12	FUNCTION5 PFK	44.48	1.948e3					0.7	NO		db		

ETHERS1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	27.05	9.774e1					2.3	NO		bb		0.000
2	FUNCTION1 HXCD...	26.35	9.621e1					2.0	NO		bb		0.000
3	FUNCTION1 HXCD...	23.29	1.580e2					1.9	NO		bb		0.000
4	FUNCTION1 HXCD...	21.90	7.225e1					1.6	NO		bb		0.000

ETHERS2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

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ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	31.06	2.475e2					4.5	YES		bb		0.000
2	FUNCTION2 HPCD...	30.81	1.103e2					3.1	YES		bb		0.000
3	FUNCTION2 HPCD...	28.71	7.488e1					1.7	NO		bb		0.000
4	FUNCTION2 HPCD...	28.07	7.794e1					1.8	NO		bb		0.000
5	FUNCTION2 HPCD...	32.13	7.489e1					1.2	NO		bb		0.000
6	FUNCTION2 HPCD...	31.57	9.130e1					1.9	NO		bb		0.000
7	FUNCTION2 HPCD...	31.44	1.308e2					1.9	NO		bb		0.000
8	FUNCTION2 HPCD...	31.31	1.394e2					1.8	NO		bb		0.000

ETHERS4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

ETHERS5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	42.24	1.488e2					3.8	YES		bb		0.000
2	FUNCTION4 NCDPE	41.28	7.527e1					2.0	NO		bb		0.000

ETHERS6

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 DCDPE	45.55	8.616e1					2.5	NO		bb		0.000

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Last Altered: Tuesday, April 25, 2023 10:49:58 Pacific Daylight Time
Printed: Tuesday, April 25, 2023 11:20:46 Pacific Daylight Time

Method: T:\Autospec\Methods\Dioxin230424.mdb 25 Apr 2023 07:59:40
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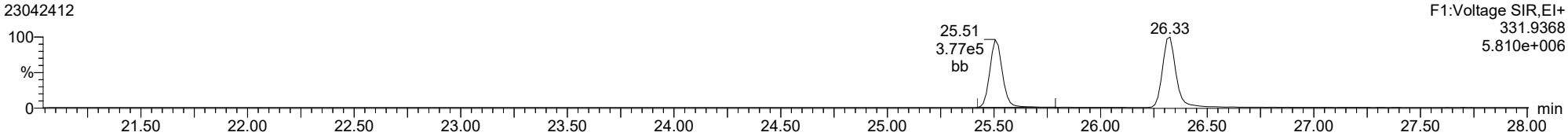
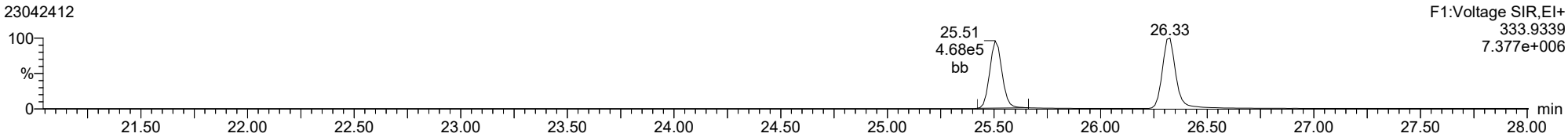
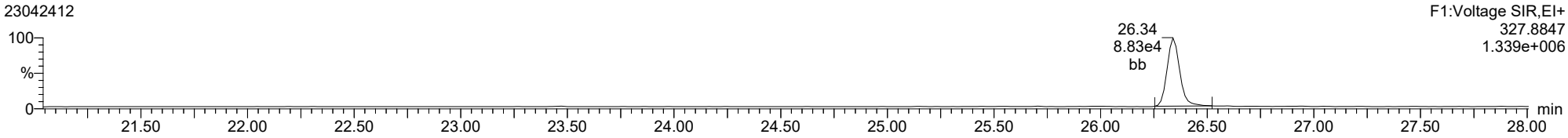
13C-1234-TCDD



13C-1234-TCDD



37CL-2378-TCDD



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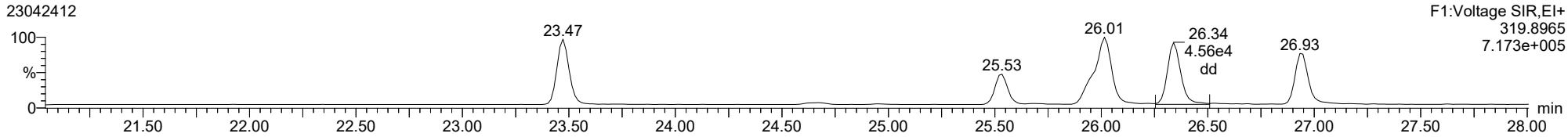

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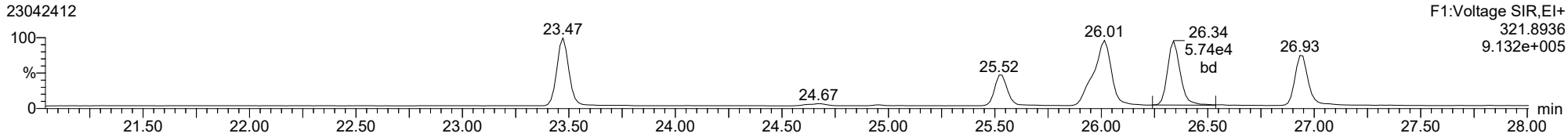

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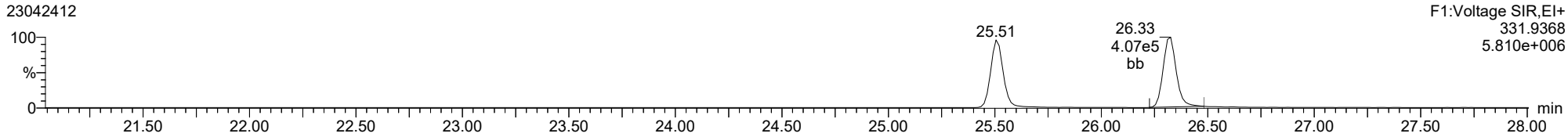

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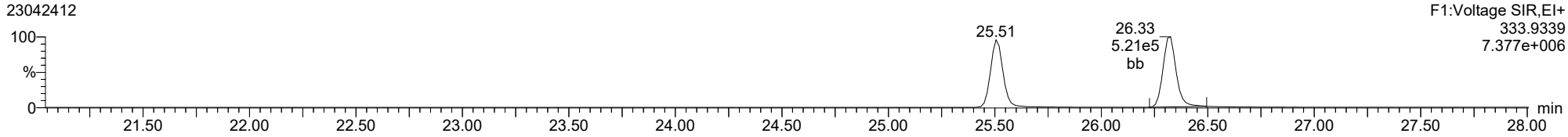

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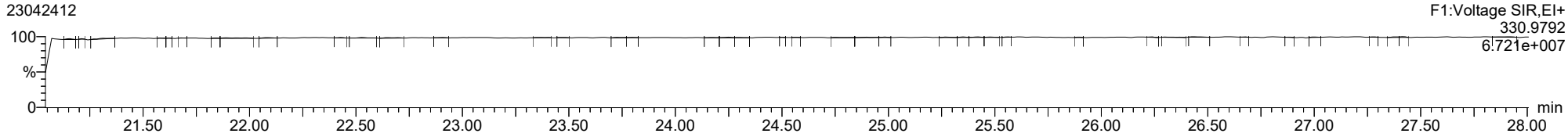

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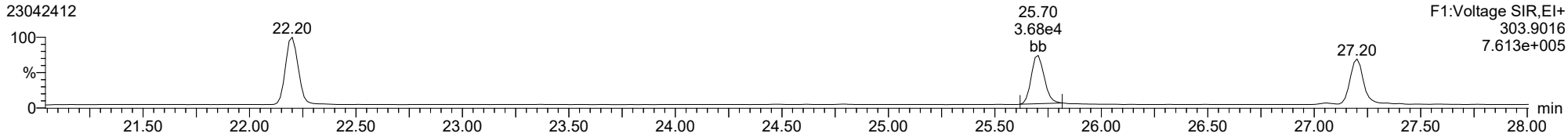

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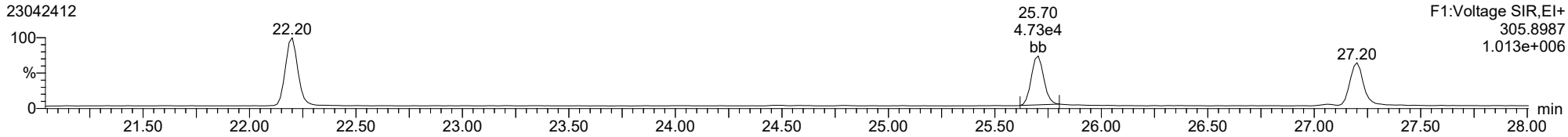

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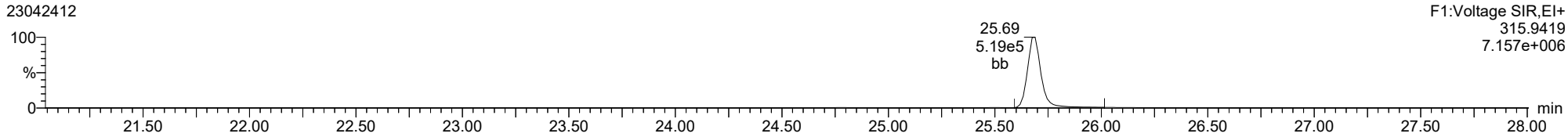

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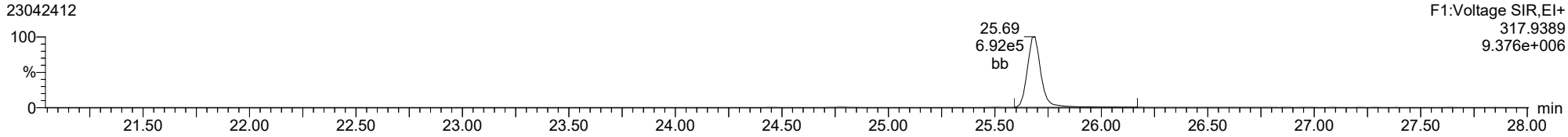

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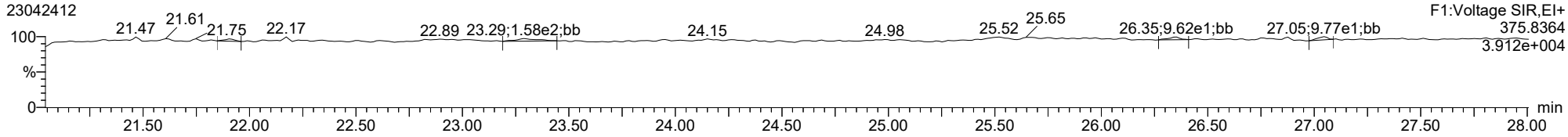

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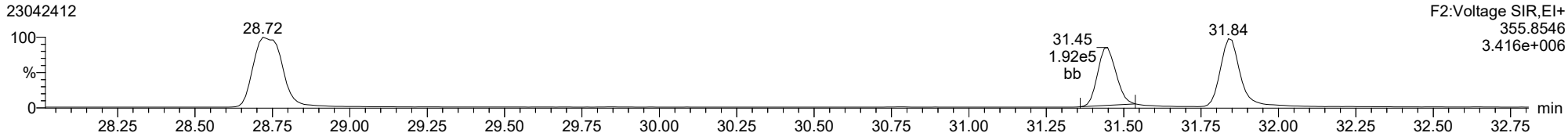

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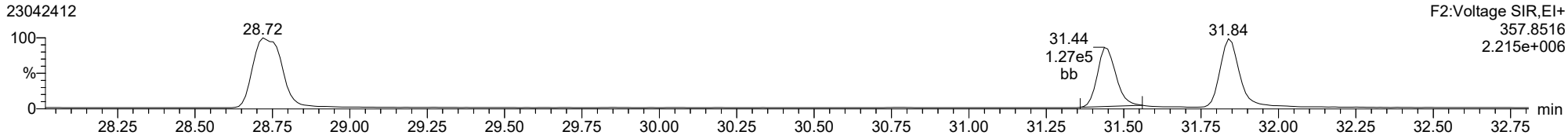

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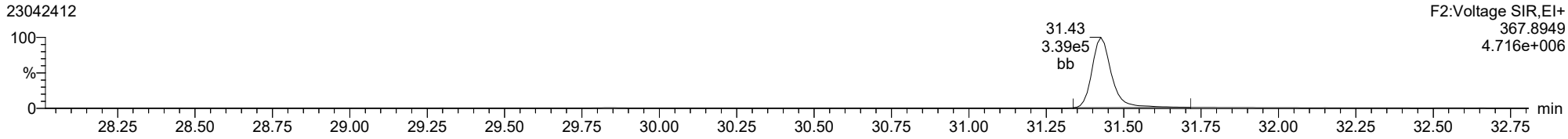

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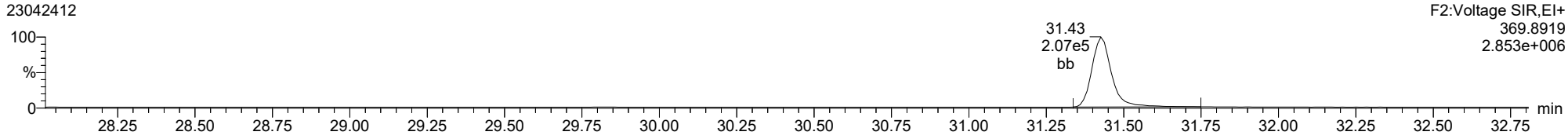

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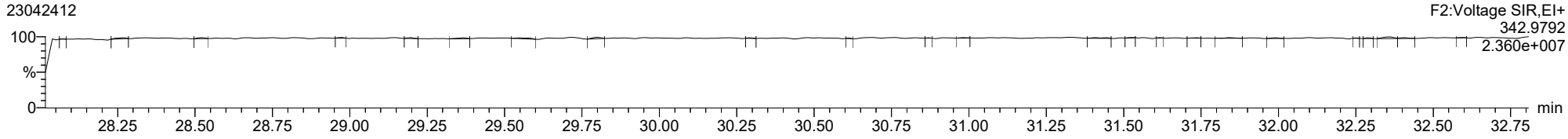

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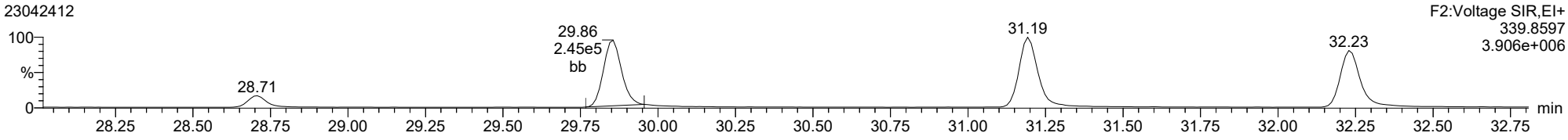

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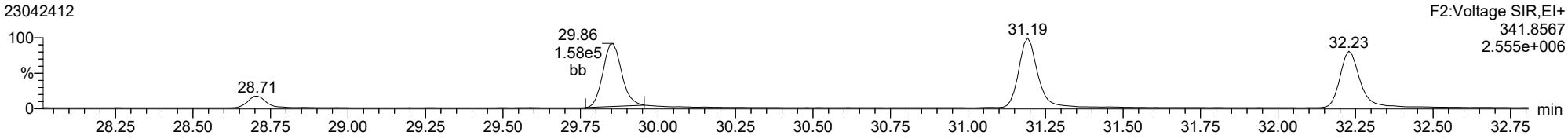

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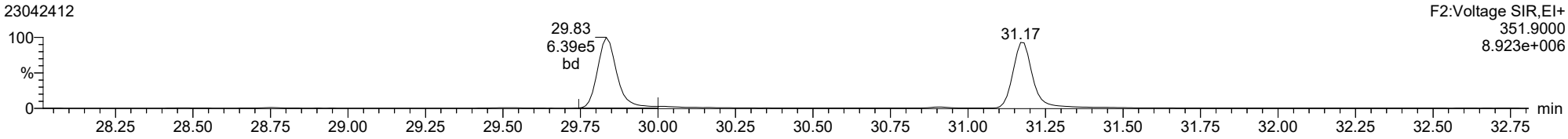

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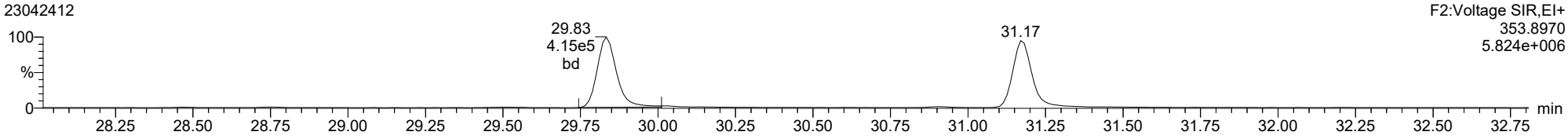

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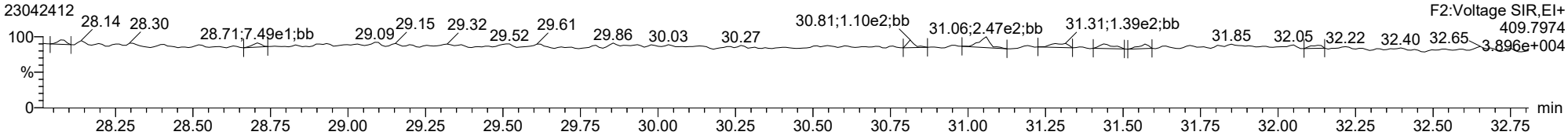

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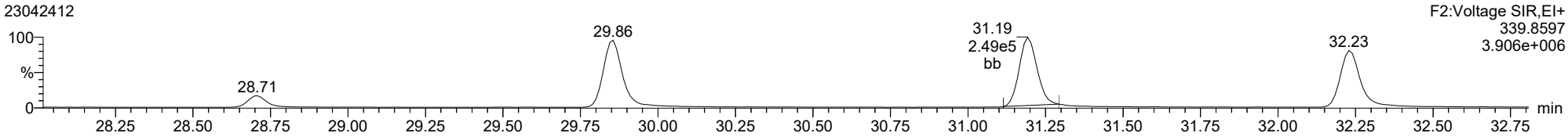

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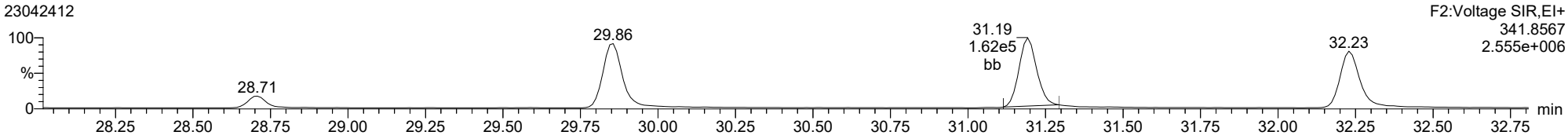

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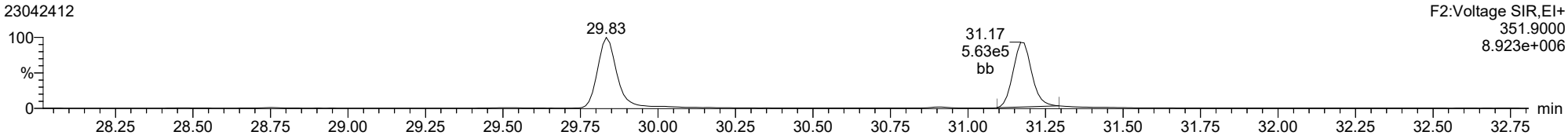

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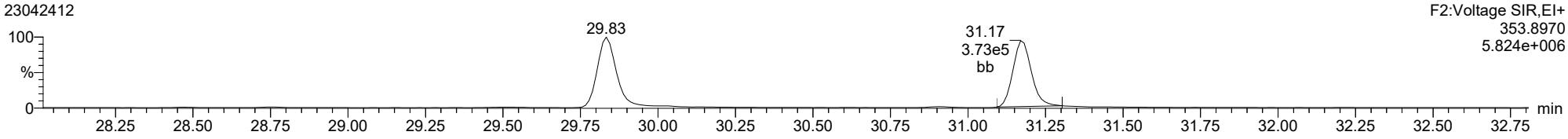

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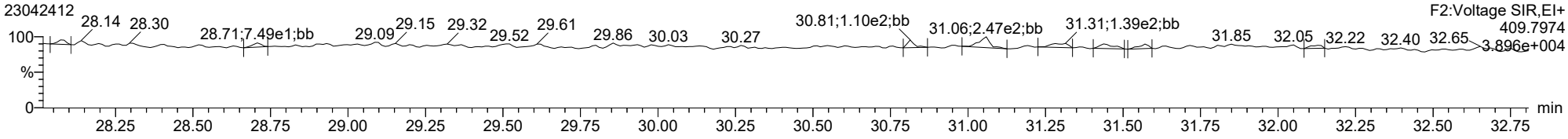

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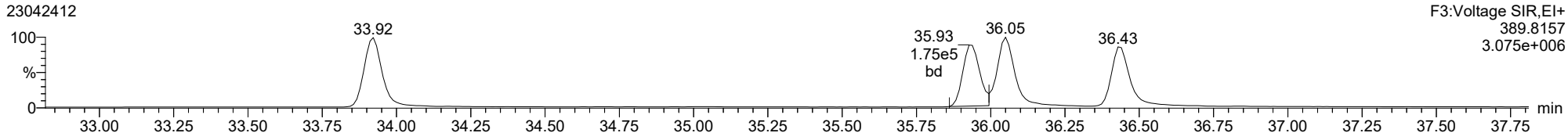

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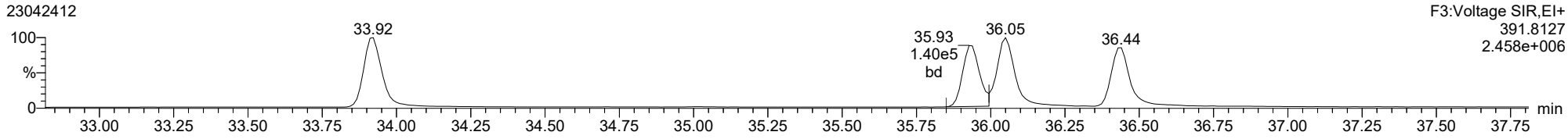

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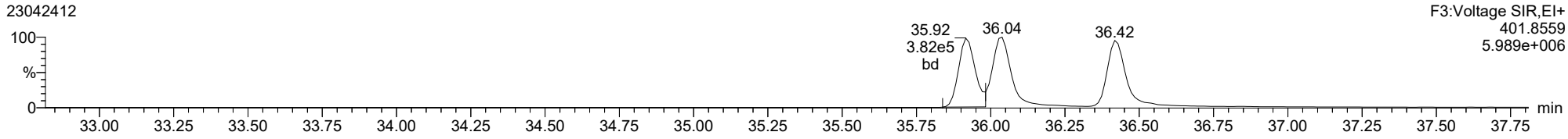

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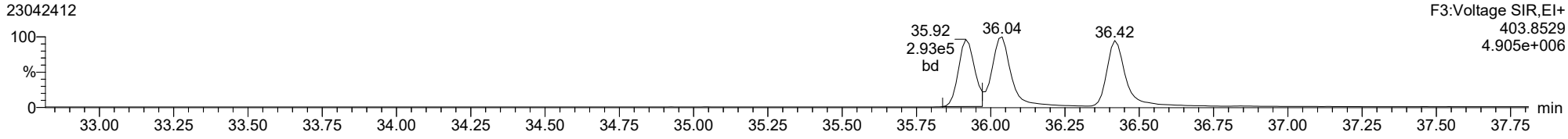

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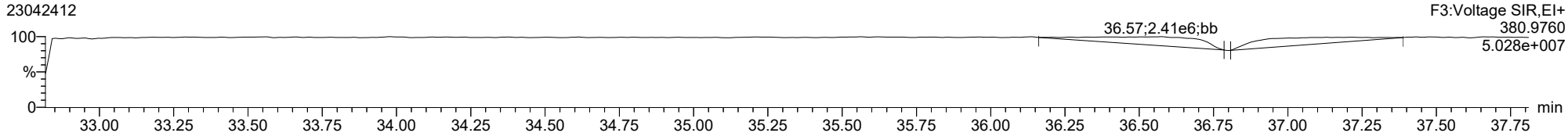

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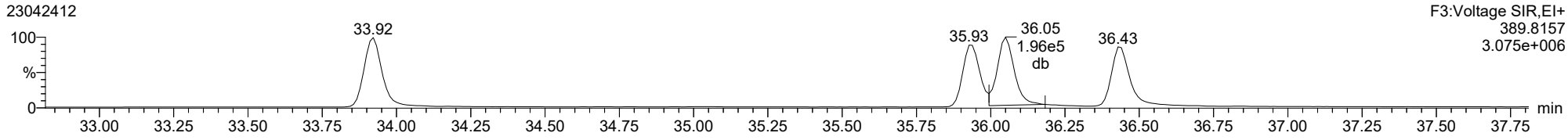

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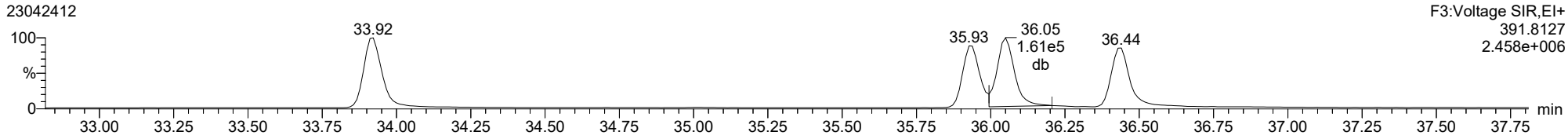

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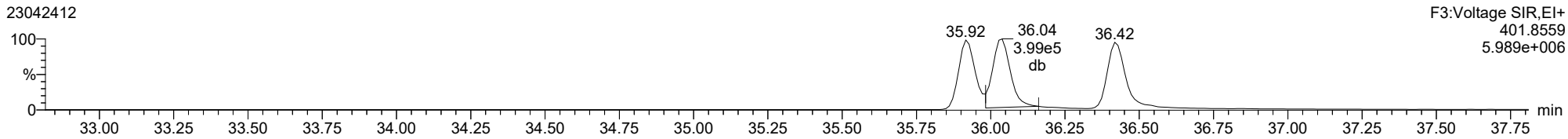

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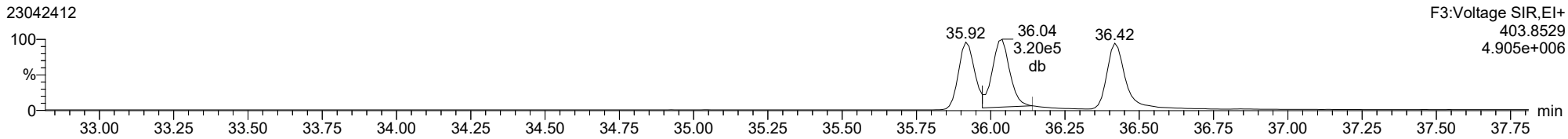

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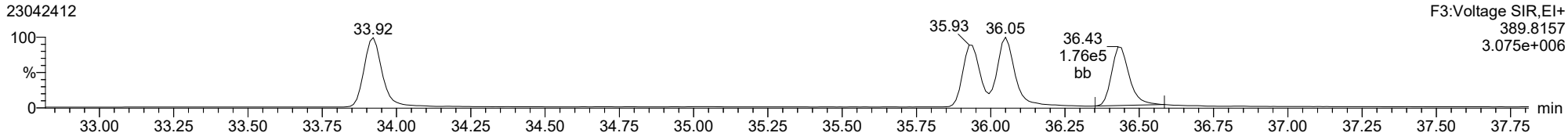

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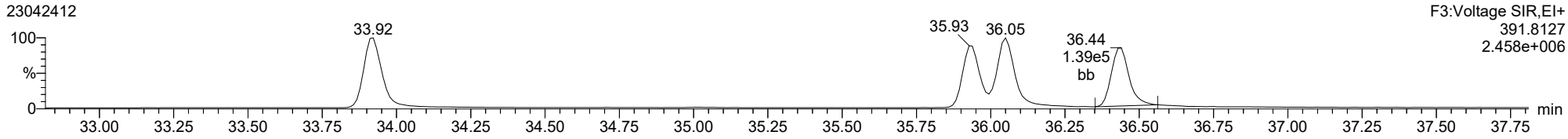

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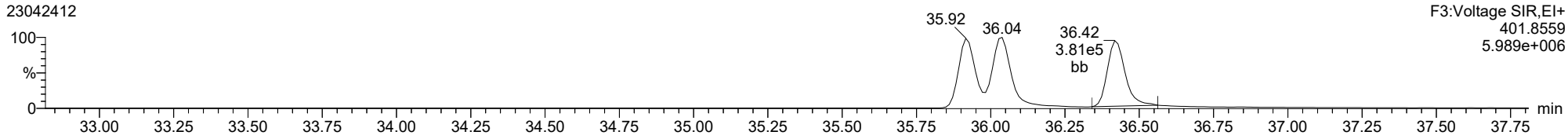

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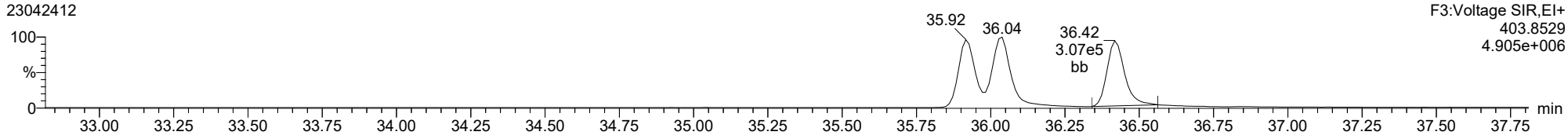

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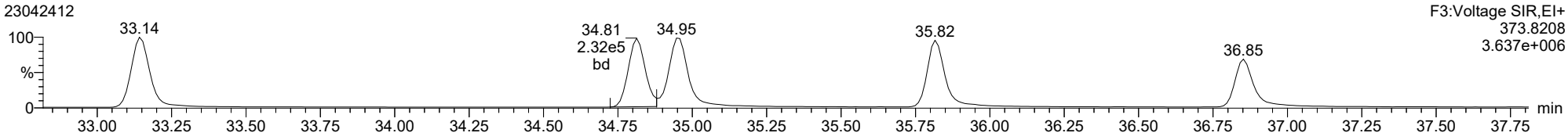

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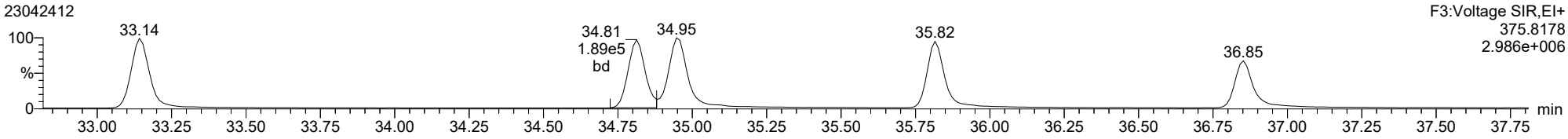

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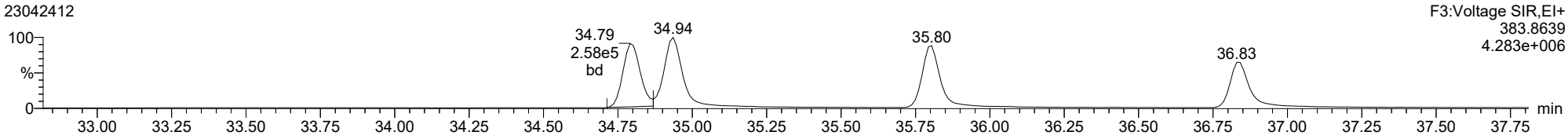

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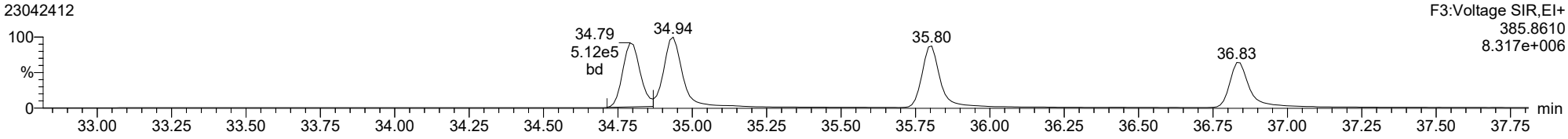
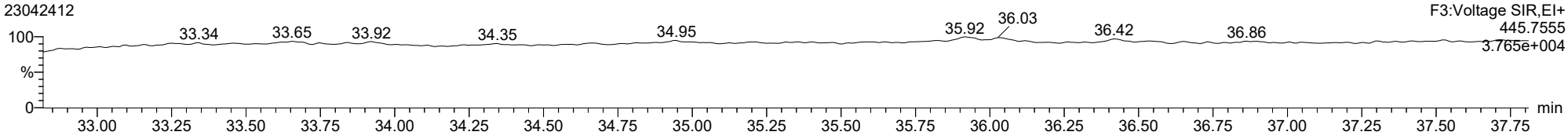


FUNCTION3 OCDPE



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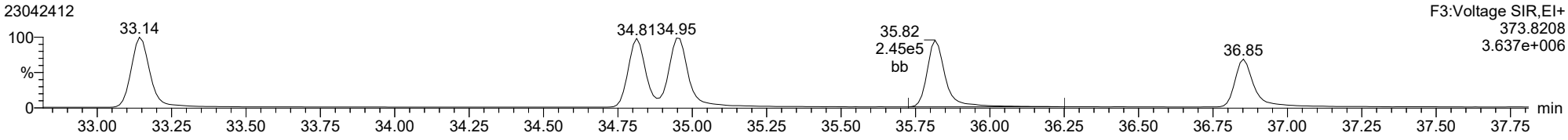

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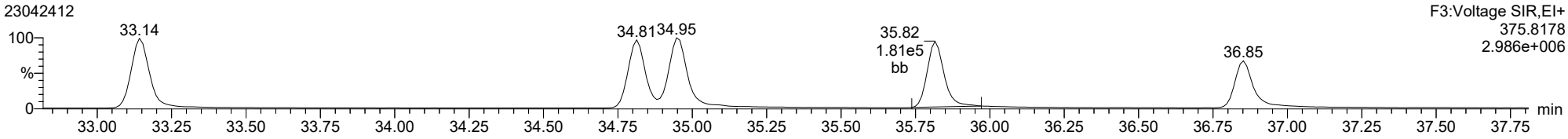

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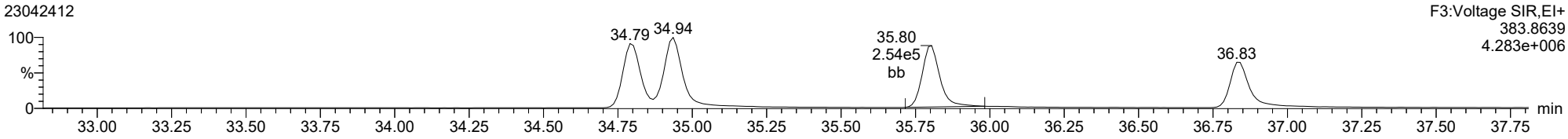

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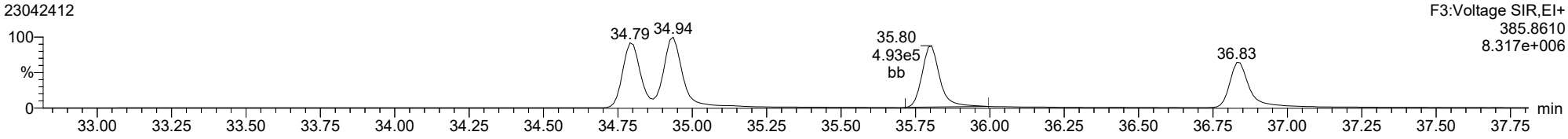

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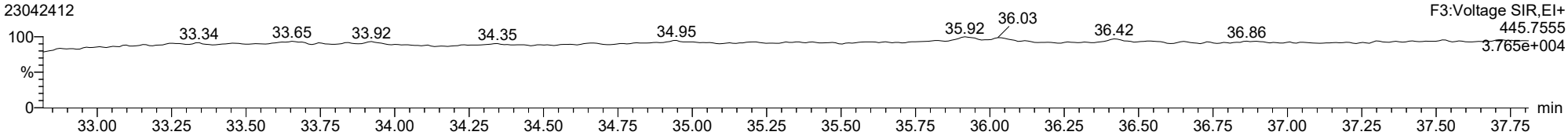

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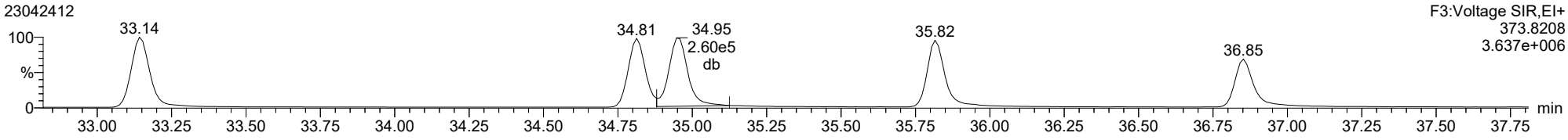

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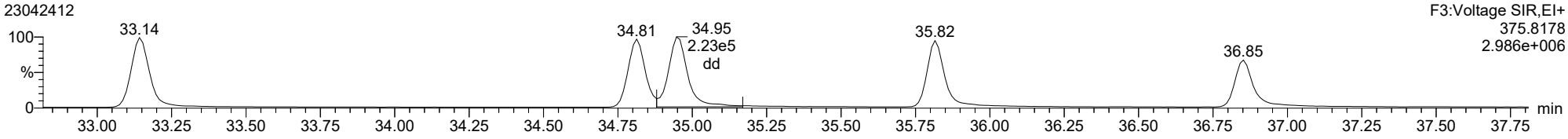

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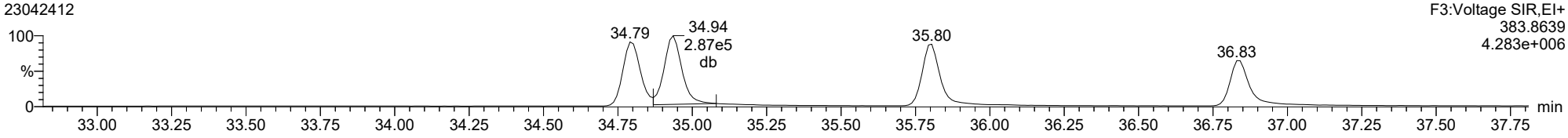

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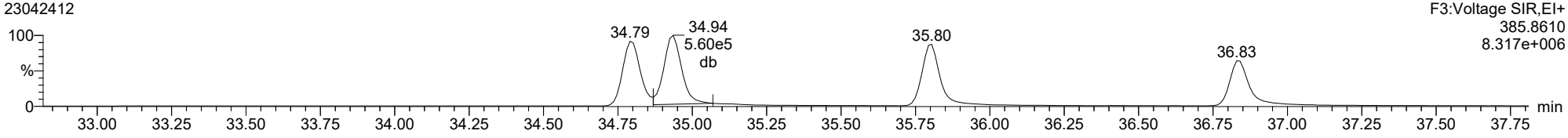

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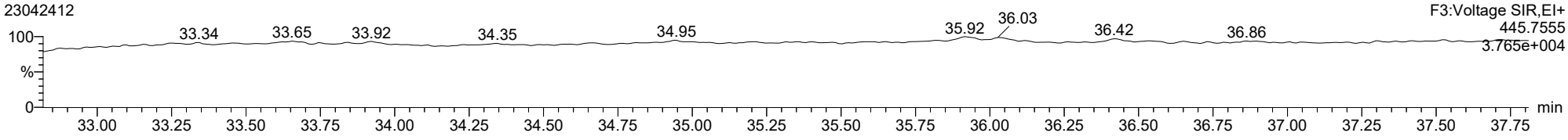

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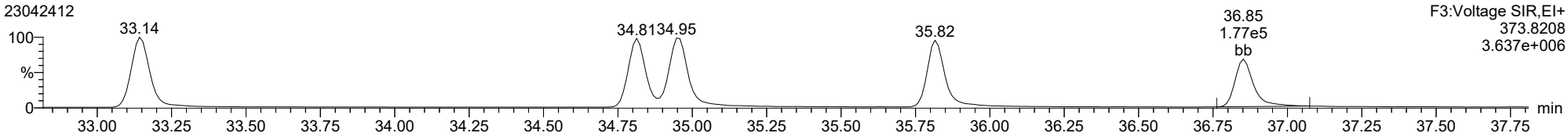

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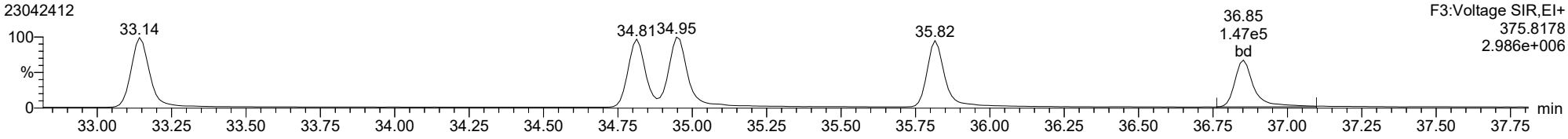

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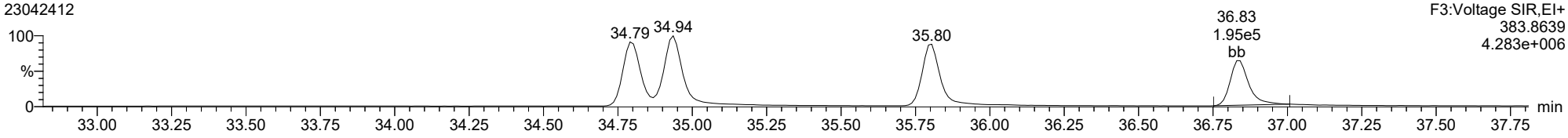

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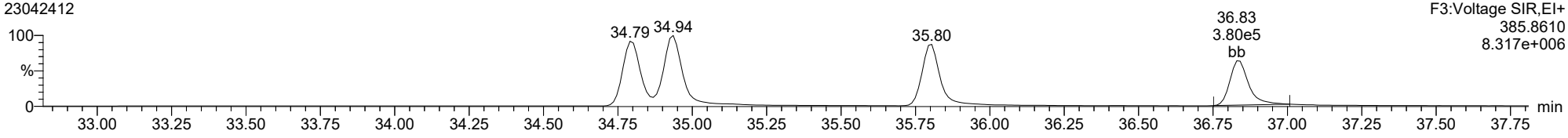

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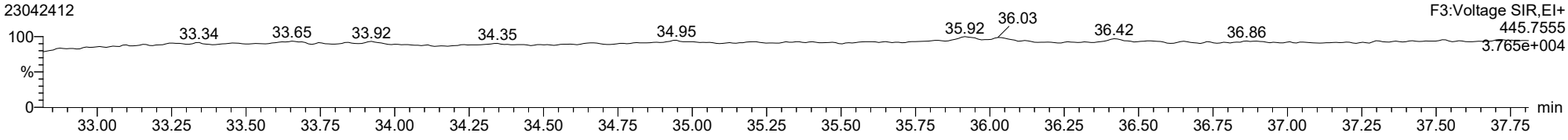

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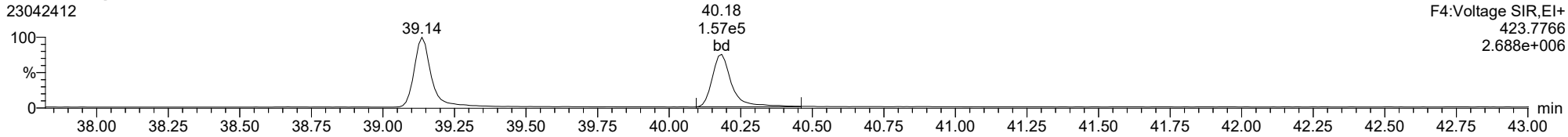

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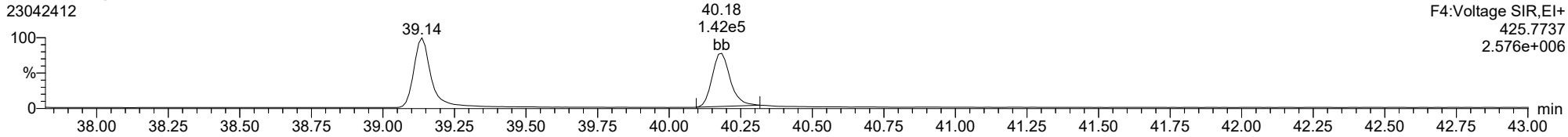

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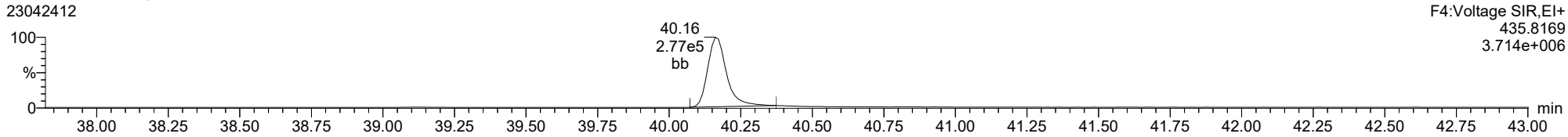

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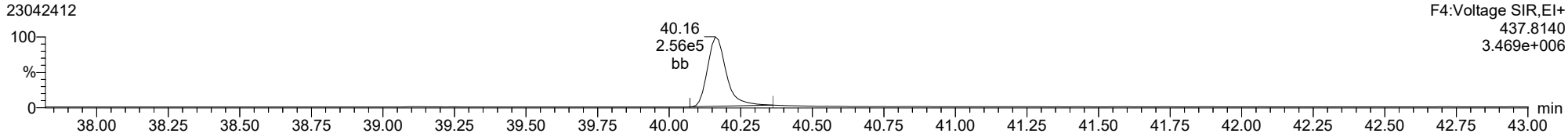

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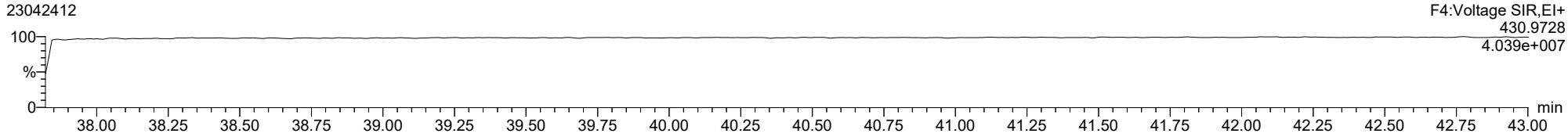

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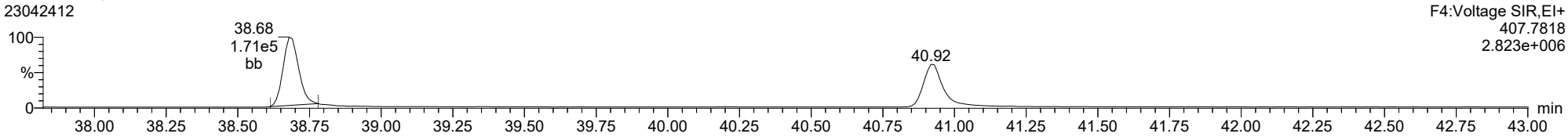

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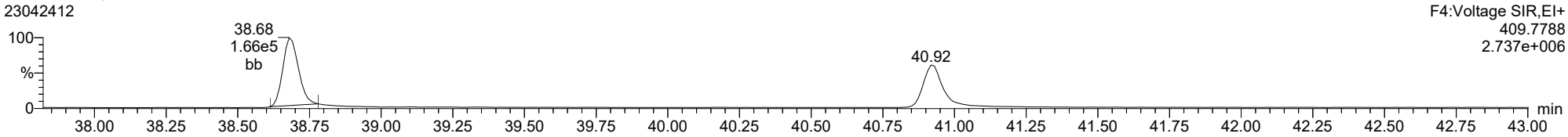

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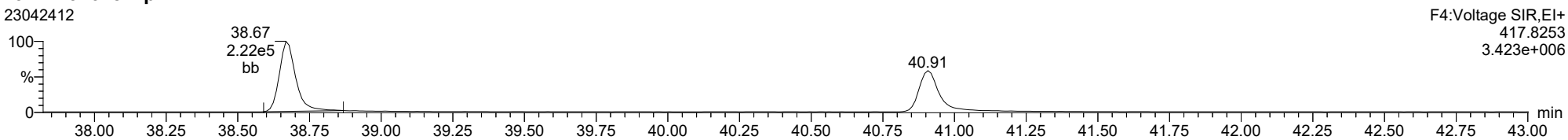

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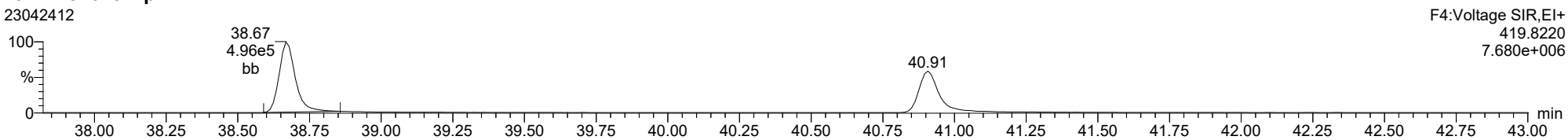
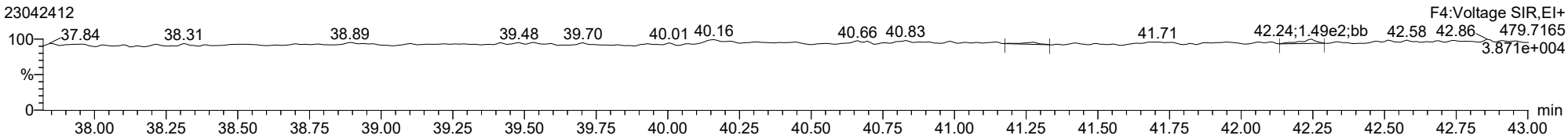


FUNCTION4 NCDPE



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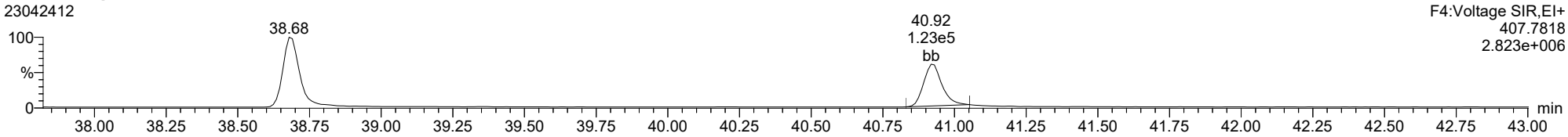

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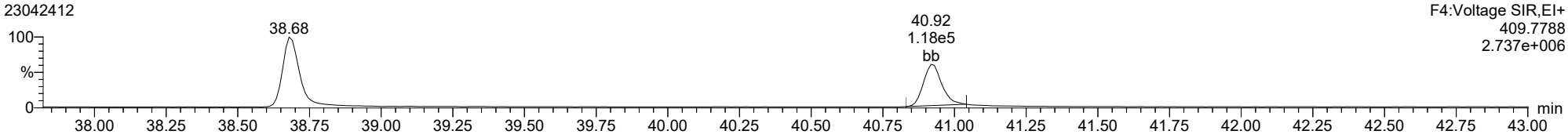

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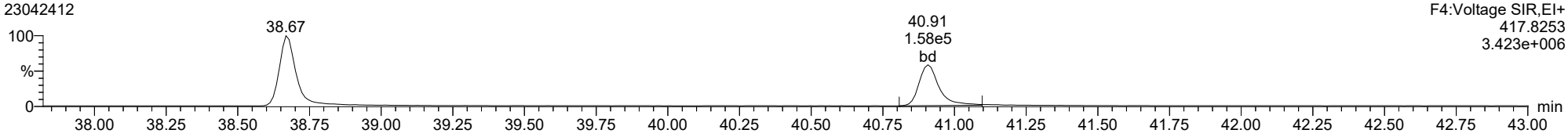

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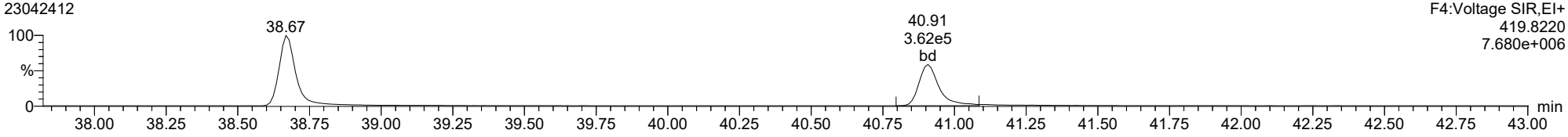

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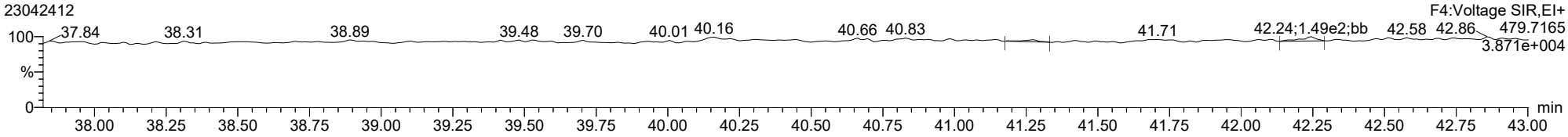

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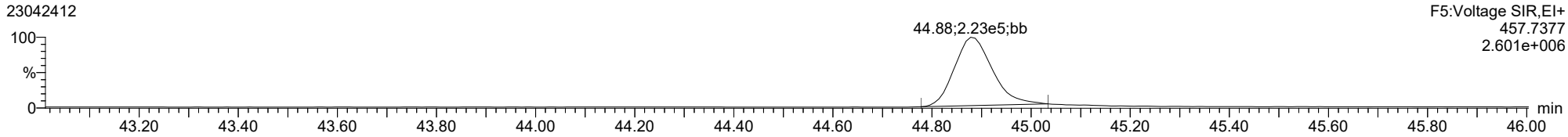

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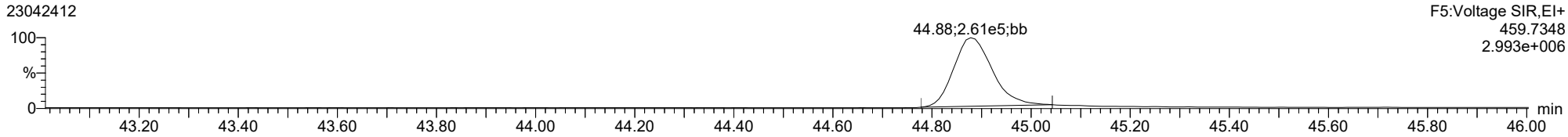

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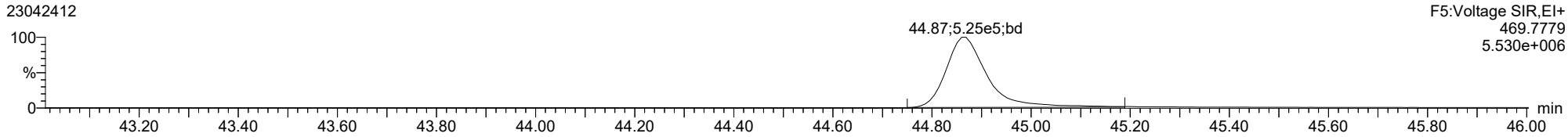

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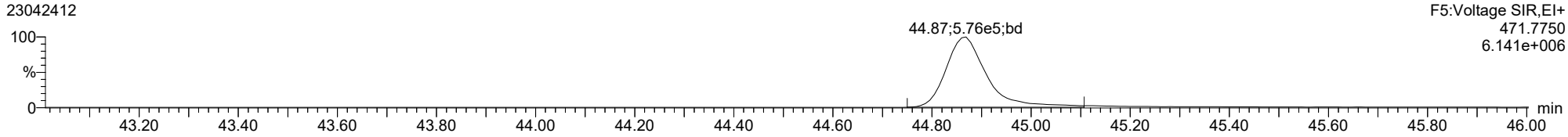

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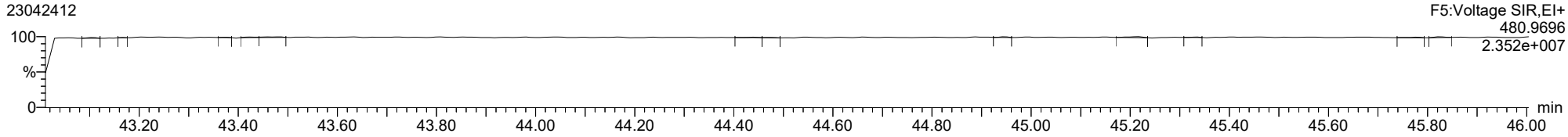

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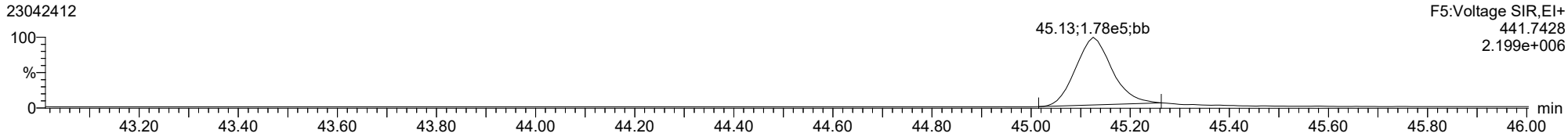

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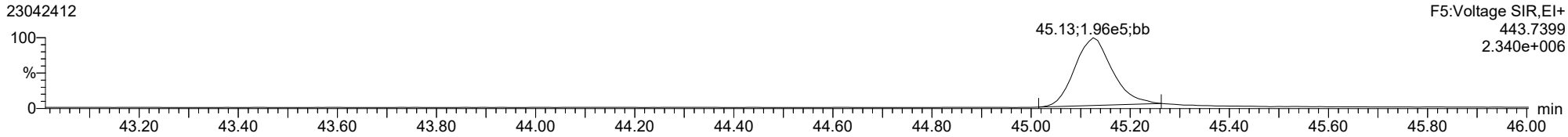

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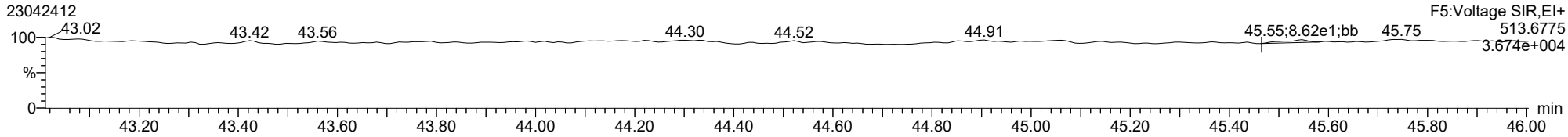

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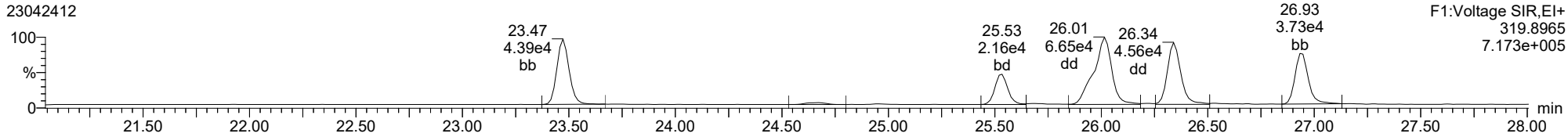
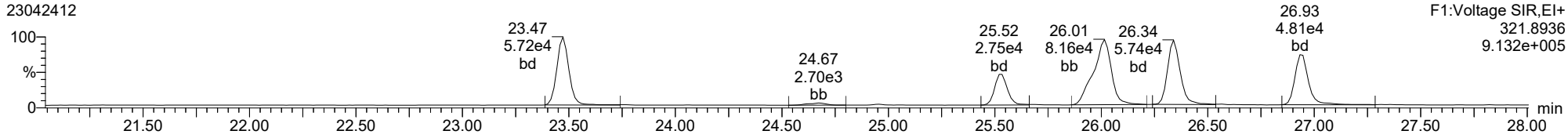
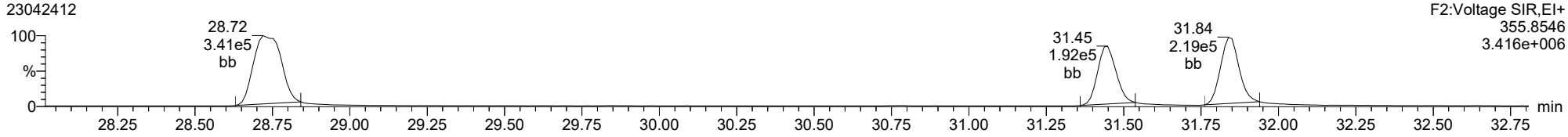
Total-tetradioxins



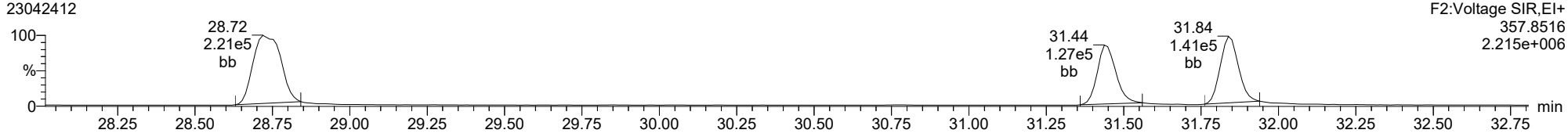
Total-tetradioxins



Total-pentadioxins



Total-pentadioxins



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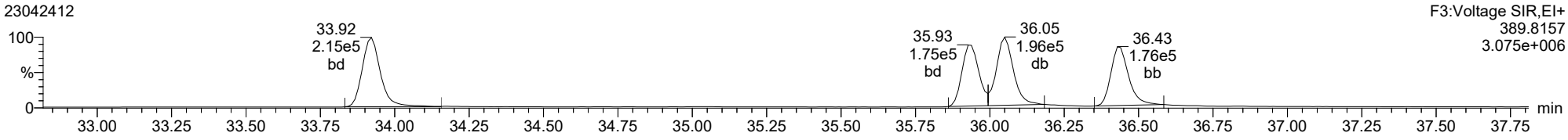
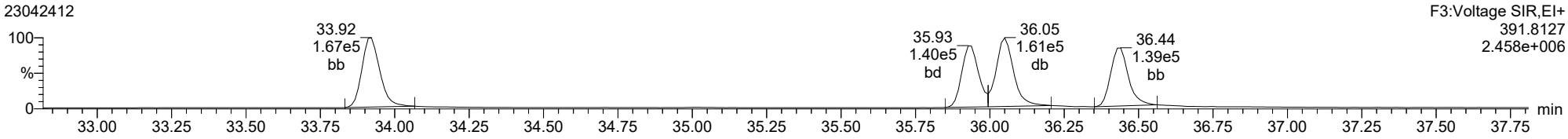
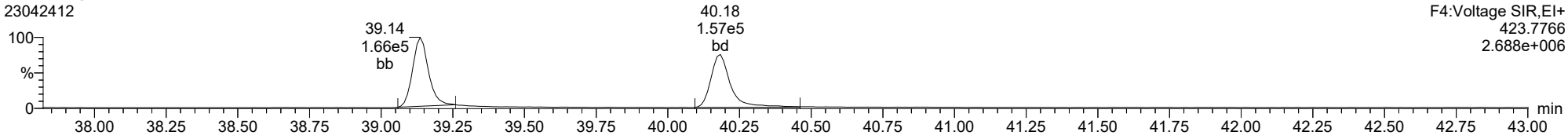
Total-hexadioxins



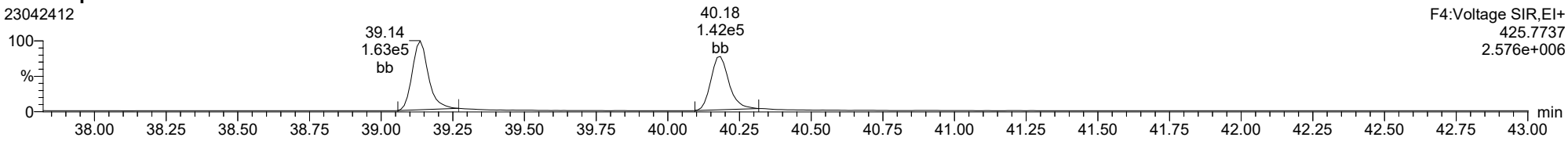
Total-hexadioxins



Total-heptadioxins



Total-heptadioxins



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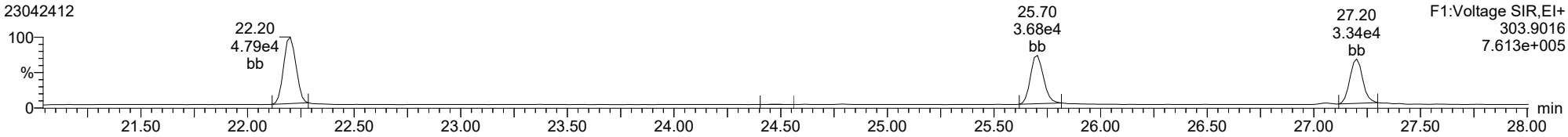
Total-tetrafurans



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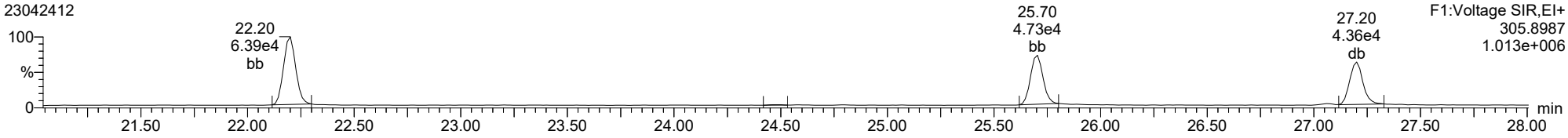

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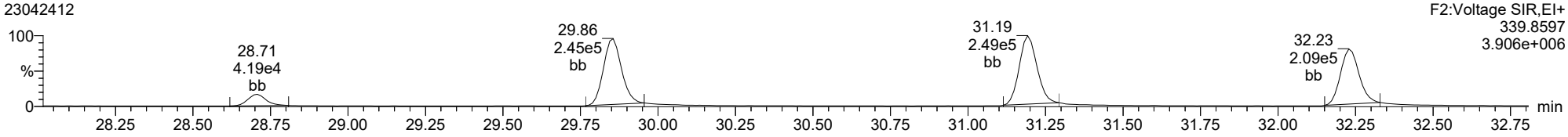

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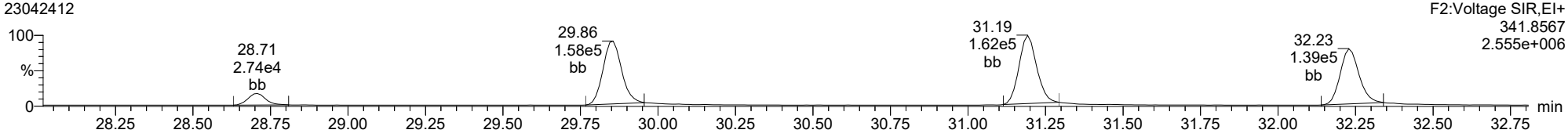

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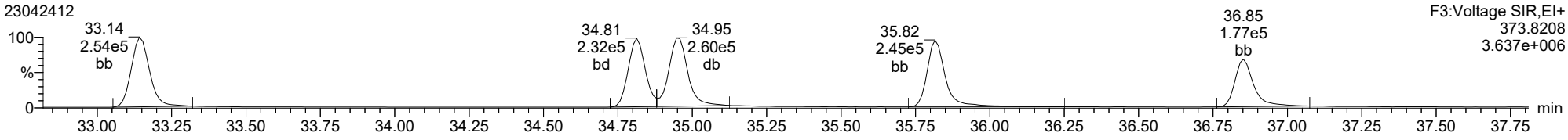
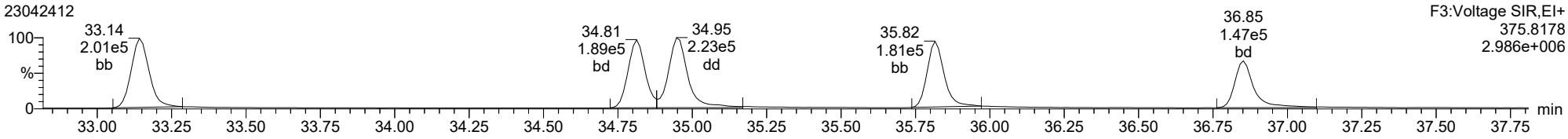
Total-hexafurans



Total-hexafurans



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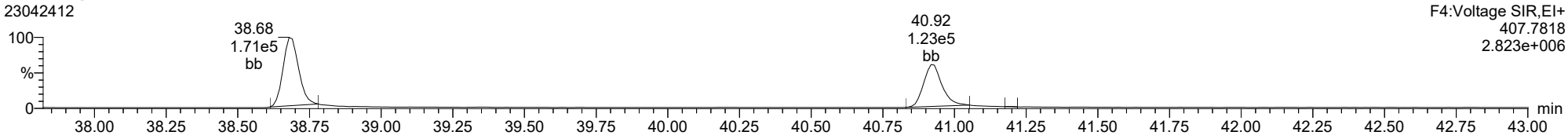

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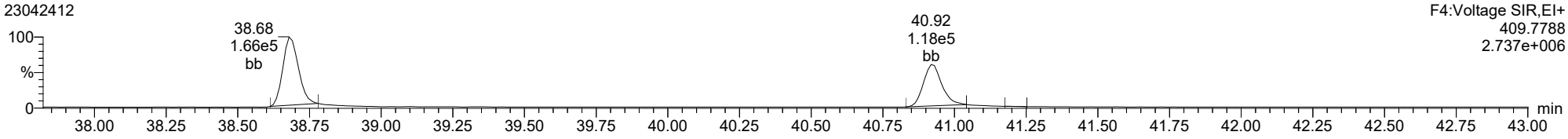

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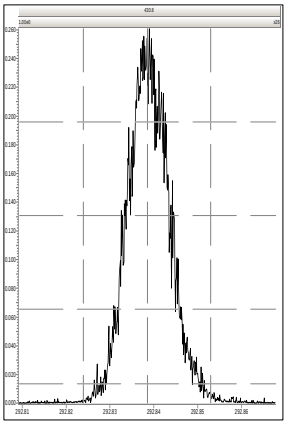
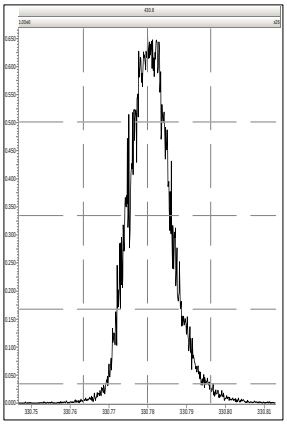
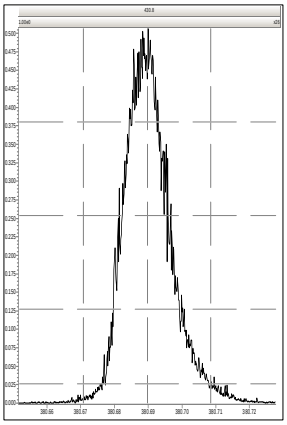
M 292.9824 R 13442



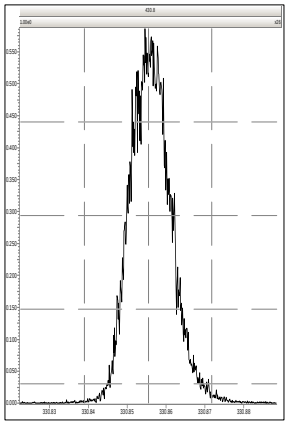
M 330.9792 R 13194



M 380.9760 R 12048



M 330.9792 R 14583



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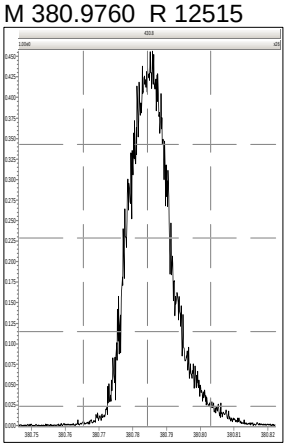

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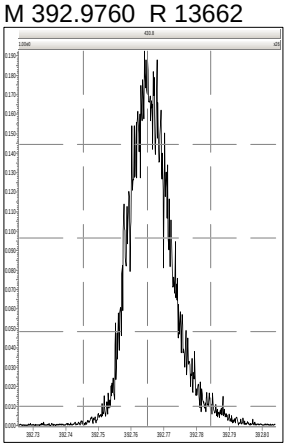
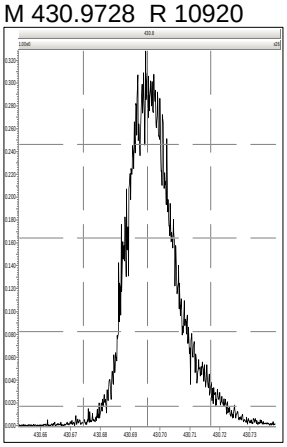


M 430.9728 R 10920



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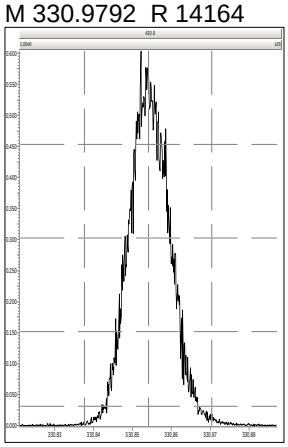

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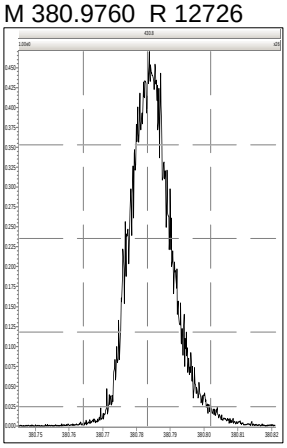
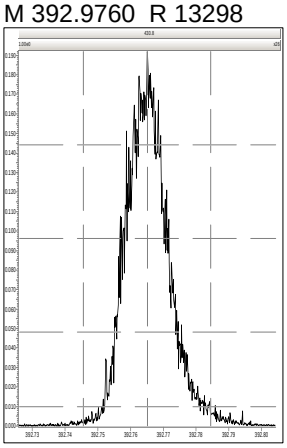
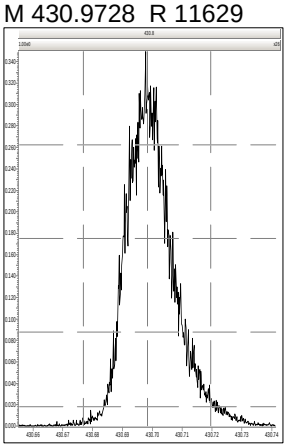


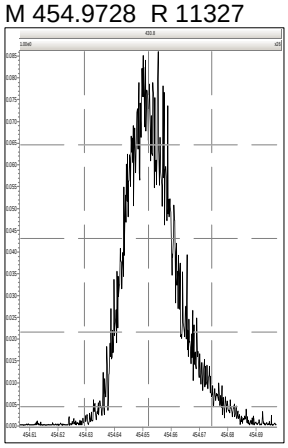
M 392.9760 R 13298



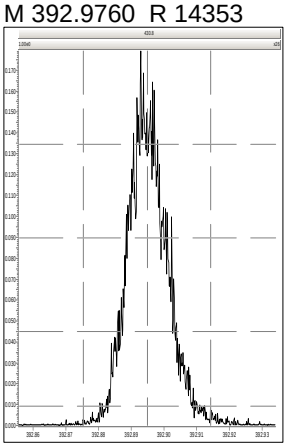
M 430.9728 R 11629



M 454.9728 R 11327



M 392.9760 R 14353



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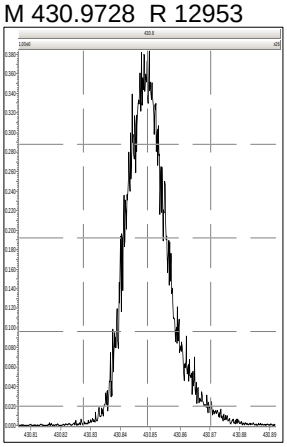
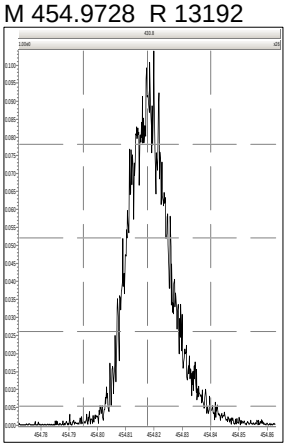
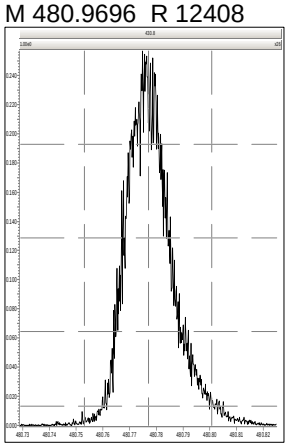


M 454.9728 R 13192



M 480.9696 R 12408



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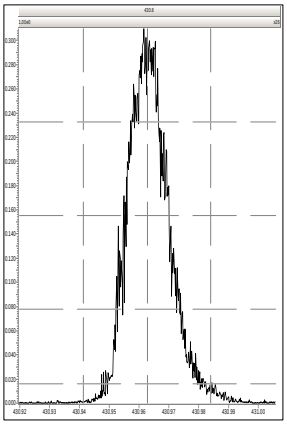
M 430.9728 R 13628



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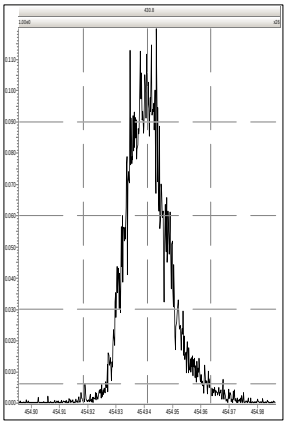
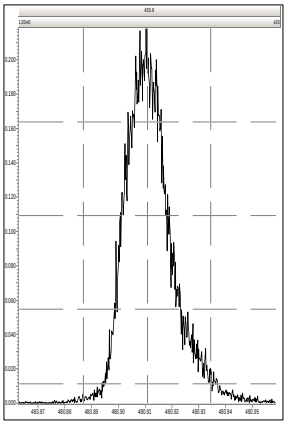
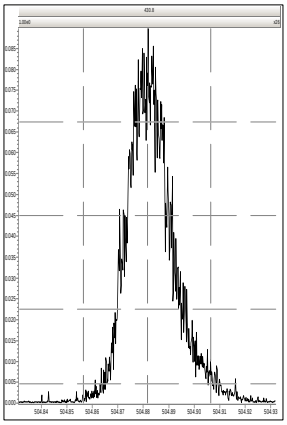


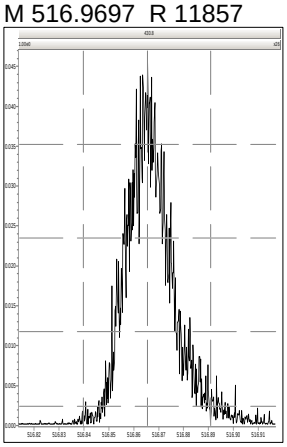
M 480.9696 R 12140

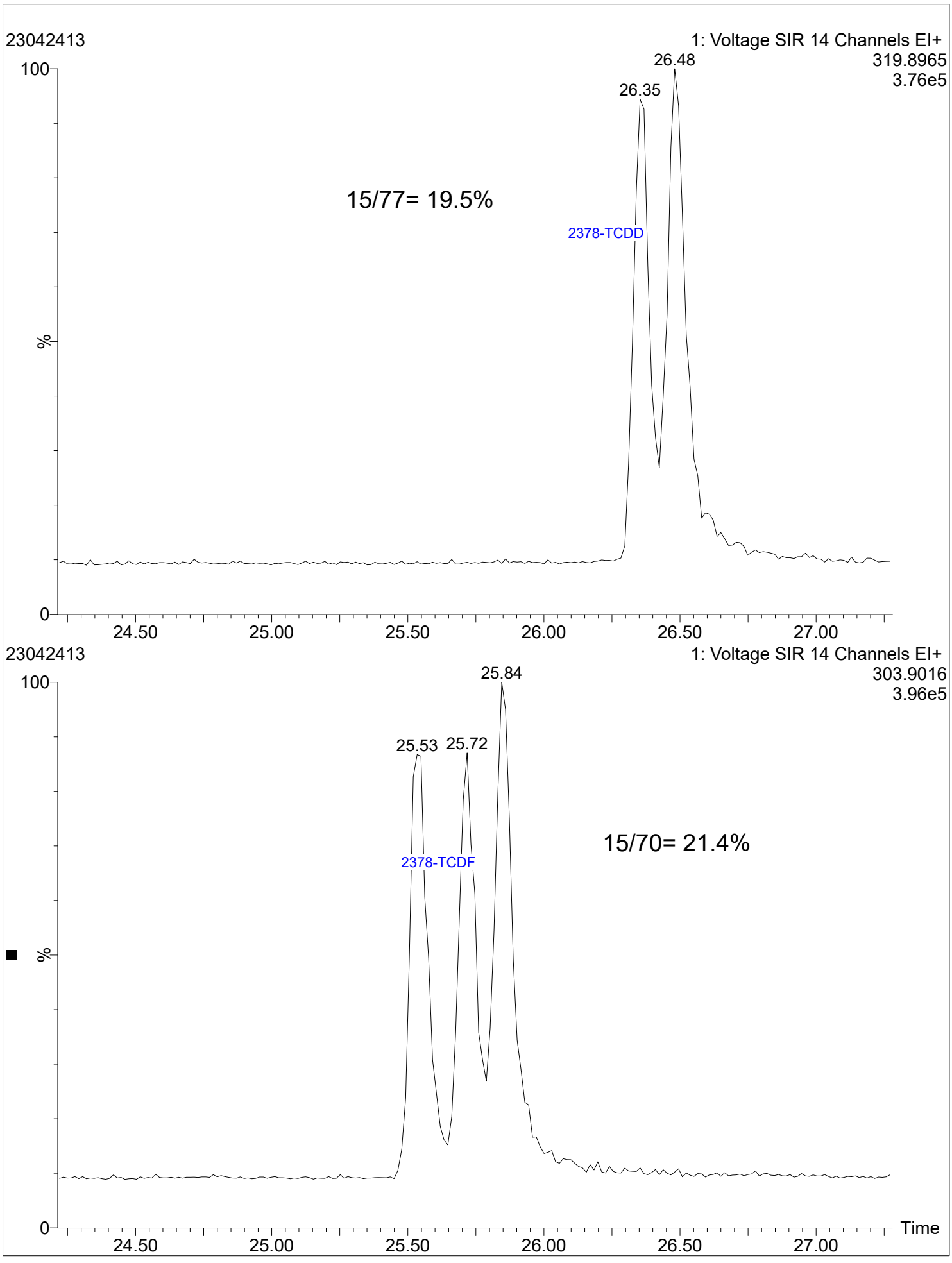


M 504.9696 R 12791



M 516.9697 R 11857




23042413
1: Voltage SIR 14 Channels EI+
319.8965
3.76e5
26.48
26.35
15/77= 19.5%
2378-TCDD
100
%
0
24.50
25.00
25.50
26.00
26.50
27.00
23042413
1: Voltage SIR 14 Channels EI+
303.9016
3.96e5
25.84
25.53
25.72
15/70= 21.4%
2378-TCDF
100
%
0
Time
24.50
25.00
25.50
26.00
26.50
27.00

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 1613B

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	AUTOSPEC01	Calibration:	GC00015
Lab File ID:	23042421	Calibration Date:	03/03/2023
Sequence:	SLD0330	Injection Date:	04/25/23
Lab Sample ID:	SLD0330-CCV2	Injection Time:	06:52
Sequence Name:	CS3H3		

		CONC. (ng/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
2,3,7,8-TCDF	A	10.000	10.2	0.7015272	0.7182209		2.4	+/-16
2,3,7,8-TCDD	A	10.000	9.30	1.1486620	1.0681480		-7.0	+/-22
1,2,3,7,8-PeCDF	A	50.000	58.1	0.6792300	0.7891171		16.2	+/-18
2,3,4,7,8-PeCDF	A	50.000	54.4	0.7861704	0.8559960		8.9	+/-18
1,2,3,7,8-PeCDD	A	50.000	56.0	1.0218450	1.1442470		12.0	+/-22
1,2,3,4,7,8-HxCDF	A	50.000	46.8	1.1660380	1.0915770		-6.4	+/-10
1,2,3,6,7,8-HxCDF	A	50.000	49.2	1.0907410	1.0739260		-1.5	+/-12
2,3,4,6,7,8-HxCDF	A	50.000	47.7	1.1396990	1.0881760		-4.5	+/-12
1,2,3,7,8,9-HxCDF	A	50.000	46.3	1.1370930	1.0530250		-7.4	+/-10
1,2,3,4,7,8-HxCDD	A	50.000	46.9	0.9955689	0.9342354		-6.2	+/-22
1,2,3,6,7,8-HxCDD	A	50.000	50.0	1.0009380	1.0011860		0.02	+/-22
1,2,3,7,8,9-HxCDD	A	50.000	51.8	0.9071139	0.9397122		3.6	+/-18
1,2,3,4,6,7,8-HpCDF	A	50.000	46.4	1.0029930	0.9307525		-7.2	+/-10
1,2,3,4,7,8,9-HpCDF	A	50.000	48.6	0.9531152	0.9266867		-2.8	+/-14
1,2,3,4,6,7,8-HpCDD	A	50.000	49.4	1.0390130	1.0271350		-1.1	+/-14
OCDF	A	100.00	90.2	0.7778078	0.7019156		-9.8	+/-37
OCDD	A	100.00	99.3	0.9199537	0.9132202		-0.7	+/-21
13C12-2,3,7,8-TCDF	A	100.00	88.1	1.6201960	1.4273653		-11.9	+/-29
13C12-2,3,7,8-TCDD	A	100.00	98.9	1.1524090	1.1393374		-1.1	+/-18
13C12-1,2,3,7,8-PeCDF	A	100.00	103	1.2404520	1.2726844		2.6	+/-24
13C12-2,3,4,7,8-PeCDF	A	100.00	108	1.1177860	1.2110728		8.3	+/-23
13C12-1,2,3,7,8-PeCDD	A	100.00	86.8	0.8288129	0.7194208		-13.2	+/-38
13C12-1,2,3,4,7,8-HxCDF	A	100.00	92.3	1.1683050	1.0788000		-7.7	+/-24
13C12-1,2,3,6,7,8-HxCDF	A	100.00	83.8	1.3864660	1.1617231		-16.2	+/-30
13C12-2,3,4,6,7,8-HxCDF	A	100.00	94.3	1.1292560	1.0649716		-5.7	+/-27
13C12-1,2,3,7,8,9-HxCDF	A	100.00	91.8	0.9317541	0.8553225		-8.2	+/-26
13C12-1,2,3,4,7,8-HxCDD	A	100.00	97.3	0.9950393	0.9678997		-2.7	+/-15
13C12-1,2,3,6,7,8-HxCDD	A	100.00	87.9	1.1566890	1.0167500		-12.1	+/-15
13C12-1,2,3,4,6,7,8-HpCDF	A	100.00	111	0.8952017	0.9919779		10.8	+/-22
13C12-1,2,3,4,7,8,9-HpCDF	A	100.00	98.9	0.7697516	0.7609049		-1.1	+/-23
13C12-1,2,3,4,6,7,8-HpCDD	A	100.00	94.8	0.8401226	0.7963563		-5.2	+/-28
13C12-OCDD	A	200.00	201	0.7674714	0.7724502		0.6	+/-52
37Cl4-2,3,7,8-TCDD	A	10.000	8.29	1.2878040	1.0673418		-17.1	

* Values outside of QC limits

* Values outside of QC limits

Dataset: T:\Autospec\Processed Data Batch\230424D1.qld
Last Altered: Tuesday, April 25, 2023 10:49:58 Pacific Daylight Time
Printed: Tuesday, April 25, 2023 11:22:57 Pacific Daylight Time

Method: T:\Autospec\Methods\Dioxin230424.mdb 25 Apr 2023 07:59:40
Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 11:57:27

ID: CS3H3, Name: 23042421, Date: 25-Apr-2023, Time: 06:52:00, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	25.689	1.000	4.034e4	5.338e4	0.702	0.756	0.770	796	1180	5.96e5	8.11e5	748.8	687.1	NO	bb	bb	10.238
12378-PeCDF	29.844	1.001	2.807e5	1.784e5	0.679	1.574	1.550	2211	2850	4.23e6	2.72e6	1913.2	954.2	NO	bb	bb	58.089
23478-PeCDF	31.181	1.000	2.857e5	1.882e5	0.786	1.518	1.550	2211	2850	4.35e6	2.83e6	1965.8	993.1	NO	bb	bb	54.441
123478-HxCDF	34.802	1.000	2.878e5	2.308e5	1.166	1.247	1.240	2001	2221	4.44e6	3.56e6	2216.7	1601.5	NO	bd	bd	46.807
234678-HxCDF	35.816	1.001	2.825e5	2.278e5	1.140	1.240	1.240	2001	2221	4.20e6	3.39e6	2098.3	1526.3	NO	bb	bb	47.740
123678-HxCDF	34.947	1.001	3.043e5	2.451e5	1.091	1.241	1.240	2001	2221	4.54e6	3.56e6	2266.1	1603.6	NO	db	db	49.229
123789-HxCDF	36.841	1.000	2.212e5	1.755e5	1.137	1.260	1.240	2001	2221	3.19e6	2.53e6	1592.4	1138.5	NO	bb	bb	46.303
1234678-HpCDF	38.679	1.000	2.057e5	2.009e5	1.003	1.024	1.050	2467	1788	3.41e6	3.31e6	1381.1	1850.0	NO	bb	bb	46.399
1234789-HpCDF	40.918	1.000	1.576e5	1.529e5	0.953	1.031	1.050	2467	1788	2.20e6	2.16e6	889.8	1205.4	NO	bb	bb	48.614
OCDF	45.116	1.006	2.315e5	2.460e5	0.778	0.941	0.890	1767	1653	2.65e6	2.86e6	1496.9	1729.5	NO	bb	bb	90.243
2378-TCDD	26.339	1.001	4.808e4	6.317e4	1.149	0.761	0.770	1254	1244	6.83e5	8.69e5	545.0	698.4	NO	bb	dd	9.299
12378-PeCDD	31.437	1.001	2.288e5	1.475e5	1.022	1.551	1.550	1429	1627	3.42e6	2.24e6	2396.1	1373.8	NO	bb	bb	55.989
123478-HxCDD	35.927	1.000	2.188e5	1.794e5	0.996	1.220	1.240	1933	1758	3.55e6	2.91e6	1837.9	1653.7	NO	bd	bd	46.920
123678-HxCDD	36.039	1.000	2.390e5	2.092e5	1.001	1.142	1.240	1933	1758	3.59e6	2.96e6	1859.5	1685.2	NO	db	db	50.012
123789-HxCDD	36.428	1.011	2.250e5	1.857e5	0.907	1.212	1.240	1933	1758	3.43e6	2.84e6	1771.9	1616.3	NO	bb	bb	51.797
1234678-HpCDD	40.172	1.000	1.822e5	1.780e5	1.039	1.024	1.050	2039	2006	2.70e6	2.63e6	1324.0	1313.1	NO	bb	bb	49.428
OCDD	44.878	1.000	2.903e5	3.310e5	0.920	0.877	0.890	2548	1810	3.53e6	4.02e6	1385.1	2223.9	NO	bb	bb	99.268
13C-2378-TCDF	25.675	1.007	5.571e5	7.478e5	1.620	0.745	0.770	2173	1270	8.05e6	1.09e7	3703.2	8611.8	NO	bb	bd	88.098
13C-12378-PeCDF	29.822	1.169	7.015e5	4.619e5	1.240	1.519	1.550	2605	2030	1.01e7	6.74e6	3890.5	3319.3	NO	bb	bb	102.598
13C-23478-PeCDF	31.170	1.222	6.724e5	4.348e5	1.118	1.546	1.550	2605	2030	1.01e7	6.51e6	3859.9	3207.4	NO	bb	bb	108.346
13C-123478-HxCDF	34.791	0.955	3.186e5	6.316e5	1.168	0.504	0.510	1893	2084	4.97e6	9.81e6	2624.6	4708.6	NO	bd	bd	92.339
13C-123678-HxCDF	34.924	0.959	3.484e5	6.748e5	1.386	0.516	0.510	1893	2084	5.11e6	1.00e7	2700.2	4812.3	NO	db	db	83.790
13C-234678-HxCDF	35.793	0.983	3.291e5	6.088e5	1.129	0.541	0.510	1893	2084	4.84e6	9.47e6	2558.0	4543.1	NO	bb	bb	94.307
13C-123789-HxCDF	36.829	1.011	2.550e5	4.983e5	0.932	0.512	0.510	1893	2084	3.85e6	7.42e6	2031.4	3560.1	NO	bb	bb	91.797
13C-1234678-HpCDF	38.668	1.062	2.683e5	6.054e5	0.895	0.443	0.440	1558	2932	4.21e6	9.57e6	2699.3	3262.7	NO	bb	bb	110.811
13C-1234789-HpCDF	40.907	1.123	2.082e5	4.619e5	0.770	0.451	0.440	1558	2932	2.67e6	6.08e6	1716.2	2072.1	NO	bb	bb	98.851
13C-1234-TCDD	25.506	0.000	4.025e5	5.117e5	1.000	0.787	0.770	1663	1264	6.12e6	7.73e6	3678.3	6120.8	NO	bb	bb	100.000
13C-2378-TCDD	26.311	1.032	4.576e5	5.839e5	1.152	0.784	0.770	1663	1264	6.67e6	8.56e6	4007.6	6775.0	NO	bb	bb	98.866
13C-12378-PeCDD	31.415	1.232	4.155e5	2.421e5	0.829	1.716	1.550	1088	930	5.73e6	3.46e6	5268.6	3721.9	NO	bb	bd	86.801
13C-123478-HxCDD	35.916	0.986	4.761e5	3.764e5	0.995	1.265	1.240	1524	1777	7.49e6	5.93e6	4914.0	3335.5	NO	bd	bd	97.272
13C-123678-HxCDD	36.027	0.989	4.937e5	4.018e5	1.157	1.229	1.240	1524	1777	7.77e6	6.26e6	5095.8	3524.7	NO	db	db	87.902
13C-1234678-HpCDD	40.161	1.103	3.549e5	3.465e5	0.840	1.024	1.050	2066	1953	5.08e6	4.72e6	2459.1	2418.1	NO	bb	bd	94.790
13C-OCDD	44.860	1.232	6.448e5	7.159e5	0.767	0.901	0.890	1595	1270	7.28e6	8.12e6	4563.8	6398.1	NO	bd	bb	201.297
13C-123789-HxCDD	36.417	0.000	4.858e5	3.949e5	1.000	1.230	1.240	1524	1777	7.49e6	5.99e6	4912.0	3368.1	NO	bb	bb	100.000
37CL-2378-TCDD	26.339	1.033	9.757e4		1.288			2025		1.40e6		693.3			bb		8.288

Dataset: T:\Autospec\Processed Data Batch\230424D1.qld
Last Altered: Tuesday, April 25, 2023 10:49:58 Pacific Daylight Time
Printed: Tuesday, April 25, 2023 11:22:57 Pacific Daylight Time

ID: CS3H3, Name: 23042421, Date: 25-Apr-2023, Time: 06:52:00, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF	22.187	0.864	5.039e4	6.421e4	0.802	0.785	0.770	796	1180	7.82e5	9.99e5	981.9	846.8	NO	bb	bb	10.958
1289-TCDF	27.187	1.059	3.483e4	4.900e4	0.678	0.711	0.770	796	1180	5.25e5	7.34e5	659.6	622.1	NO	bb	db	9.476
13468-PECDF	27.045	0.907	4.326e5	2.861e5	1.246	1.512	1.550	584	1073	6.54e6	4.27e6	11207.5	3981.1	NO	bb	bb	49.561
12389-PECDF	32.228	1.081	2.651e5	1.697e5	0.496	1.562	1.550	2211	2850	3.85e6	2.41e6	1739.3	845.1	NO	bb	bb	75.293
123468-HXCDF	33.142	0.953	2.907e5	2.331e5	1.169	1.247	1.240	2001	2221	4.25e6	3.39e6	2123.2	1526.3	NO	bb	bb	47.158
1368-TCDD	23.472	0.892	4.662e4	6.053e4	1.015	0.770	0.770	1254	1244	6.82e5	9.13e5	543.9	734.4	NO	bd	bb	10.131
1289-TCDD	26.932	1.024	4.182e4	5.388e4	0.909	0.776	0.770	1254	1244	5.80e5	7.80e5	462.8	627.6	NO	bb	bd	10.111
12479-PECDD	28.719	0.914	3.964e5	2.496e5	2.301	1.588	1.550	1429	1627	3.86e6	2.46e6	2703.6	1509.1	NO	bb	bb	42.685
12389-PECDD	31.838	1.013	2.651e5	1.644e5	1.184	1.612	1.550	1429	1627	3.99e6	2.42e6	2791.8	1486.4	NO	bb	bb	55.184
124679-HXCDD	33.910	0.944	2.574e5	1.989e5	1.115	1.294	1.240	1933	1758	3.74e6	3.00e6	1936.3	1705.1	NO	bb	bb	47.984
1234679-HPCDD	39.125	0.974	2.072e5	1.979e5	1.137	1.047	1.050	2039	2006	3.31e6	3.12e6	1623.0	1557.7	NO	bb	bb	50.805
Total-tetrafurans			1.256e5		0.727			796		1.90e6							30.671
Total-penta1			4.326e5					584		6.54e6							49.561
Total-pentafurans			8.777e5		0.654			2211		1.31e7							198.022
Total-hexafurans			1.386e6		1.141			2001		2.06e7							237.237
Total-heptafurans			3.644e5		0.978			2467		5.62e6							95.290
Total-Furans			3.418e6		0.922			796		5.04e7							701.026
Total-tetradioxins			2.299e5		1.024			1254		3.00e6							49.563
Total-pentadioxins			8.903e5		1.502			1429		1.13e7							153.858
Total-hexadioxins			9.419e5		1.005			1933		1.43e7							197.047
Total-heptadioxins			3.896e5		1.088			2039		6.02e6							100.288
Total-Dioxins			2.742e6		1.130			1254		3.82e7							600.024
Total-TEQ			6.160e6					1254		8.86e7							1301.050
FUNCTION1 PFK			3.528e5					333501		9.18e6							
FUNCTION2 PFK			2.459e5					168519		6.84e6							0.000
FUNCTION3 PFK			1.852e4					211347		7.74e5							0.000
FUNCTION4 PFK			2.991e5					205340		8.98e6							
FUNCTION5 PFK			2.608e4					131510		9.50e5							
FUNCTION1 HXCD...			4.151e2					598		5.19e3							0.000
FUNCTION1 HPCD...																	
FUNCTION2 HPCD...			1.045e3					1177		2.11e4							0.000
FUNCTION3 OCDPE			4.026e2					506		6.22e3							0.000
FUNCTION4 NCDPE			2.932e2					784		4.26e3							0.000
FUNCTION5 DCDPE			0.000e0					598		0.00e0							

Method: T:\Autospec\Methods\Dioxin230424.mdb 25 Apr 2023 07:59:40
Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 11:57:27

ID: CS3H3, Name: 23042421, Date: 25-Apr-2023, Time: 06:52:00, Conditions: AUTOSPEC01, User: pk

TF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.19	3.483e4	4.900e4	0.678	0.71	0.77	659.6	YES	NO	bb	db	9.476
2	2378-TCDF	25.69	4.034e4	5.338e4	0.702	0.76	0.77	748.8	YES	NO	bb	bb	10.238
3	1368-TCDF	22.19	5.039e4	6.421e4	0.802	0.78	0.77	981.9	YES	NO	bb	bb	10.958

PP

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	13468-PECDF	27.05	4.326e5	2.861e5	1.246	1.51	1.55	11207.5	YES	NO	bb	bb	49.561

PF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12389-PECDF	32.23	2.651e5	1.697e5	0.496	1.56	1.55	1739.3	YES	NO	bb	bb	75.293
2	23478-PeCDF	31.18	2.857e5	1.882e5	0.786	1.52	1.55	1965.8	YES	NO	bb	bb	54.441
3	12378-PeCDF	29.84	2.807e5	1.784e5	0.679	1.57	1.55	1913.2	YES	NO	bb	bb	58.089
4	Total-pentafurans	28.70	4.616e4	2.956e4	0.654	1.56	1.55	317.0	YES	NO	bb	bb	10.199

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123478-HxCDF	34.80	2.878e5	2.308e5	1.166	1.25	1.24	2216.7	YES	NO	bd	bd	46.807
2	123468-HXCDF	33.14	2.907e5	2.331e5	1.169	1.25	1.24	2123.2	YES	NO	bb	bb	47.158
3	123789-HxCDF	36.84	2.212e5	1.755e5	1.137	1.26	1.24	1592.4	YES	NO	bb	bb	46.303
4	234678-HxCDF	35.82	2.825e5	2.278e5	1.140	1.24	1.24	2098.3	YES	NO	bb	bb	47.740
5	123678-HxCDF	34.95	3.043e5	2.451e5	1.091	1.24	1.24	2266.1	YES	NO	db	db	49.229

HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234789-HpCDF	40.92	1.576e5	1.529e5	0.953	1.03	1.05	889.8	YES	NO	bb	bb	48.614
2	Total-heptafurans	39.35	1.054e3	1.046e3	0.978	1.01	1.05	6.0	YES	NO	bb	bb	0.278
3	1234678-HpCDF	38.68	2.057e5	2.009e5	1.003	1.02	1.05	1381.1	YES	NO	bb	bb	46.399

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Furans,TF,PP,PF,HF,HPF,OF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.19	3.483e4	4.900e4	0.678	0.71	0.77	659.6	YES	NO	bb	db	9.476
2	2378-TCDF	25.69	4.034e4	5.338e4	0.702	0.76	0.77	748.8	YES	NO	bb	bb	10.238
3	1368-TCDF	22.19	5.039e4	6.421e4	0.802	0.78	0.77	981.9	YES	NO	bb	bb	10.958
4	12389-PECDF	32.23	2.651e5	1.697e5	0.496	1.56	1.55	1739.3	YES	NO	bb	bb	75.293
5	23478-PeCDF	31.18	2.857e5	1.882e5	0.786	1.52	1.55	1965.8	YES	NO	bb	bb	54.441
6	12378-PeCDF	29.84	2.807e5	1.784e5	0.679	1.57	1.55	1913.2	YES	NO	bb	bb	58.089
7	Total-pentafurans	28.70	4.616e4	2.956e4	0.654	1.56	1.55	317.0	YES	NO	bb	bb	10.199
8	123478-HxCDF	34.80	2.878e5	2.308e5	1.166	1.25	1.24	2216.7	YES	NO	bd	bd	46.807
9	123468-HXCDF	33.14	2.907e5	2.331e5	1.169	1.25	1.24	2123.2	YES	NO	bb	bb	47.158
10	123789-HxCDF	36.84	2.212e5	1.755e5	1.137	1.26	1.24	1592.4	YES	NO	bb	bb	46.303
11	234678-HxCDF	35.82	2.825e5	2.278e5	1.140	1.24	1.24	2098.3	YES	NO	bb	bb	47.740
12	123678-HxCDF	34.95	3.043e5	2.451e5	1.091	1.24	1.24	2266.1	YES	NO	db	db	49.229
13	1234789-HpCDF	40.92	1.576e5	1.529e5	0.953	1.03	1.05	889.8	YES	NO	bb	bb	48.614
14	Total-heptafurans	39.35	1.054e3	1.046e3	0.978	1.01	1.05	6.0	YES	NO	bb	bb	0.278
15	1234678-HpCDF	38.68	2.057e5	2.009e5	1.003	1.02	1.05	1381.1	YES	NO	bb	bb	46.399
16	OCDF	45.12	2.315e5	2.460e5	0.778	0.94	0.89	1496.9	YES	NO	bb	bb	90.243
17	13468-PECDF	27.05	4.326e5	2.861e5	1.246	1.51	1.55	11207.5	YES	NO	bb	bb	49.561

TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDD	26.93	4.182e4	5.388e4	0.909	0.78	0.77	462.8	YES	NO	bb	bd	10.111
2	2378-TCDD	26.34	4.808e4	6.317e4	1.149	0.76	0.77	545.0	YES	NO	bb	dd	9.299
3	Total-tetradioxins	26.01	7.053e4	9.140e4	1.024	0.77	0.77	564.2	YES	NO	bd	bd	15.178
4	Total-tetradioxins	25.52	2.289e4	2.878e4	1.024	0.80	0.77	280.5	YES	NO	bd	bb	4.844
5	1368-TCDD	23.47	4.662e4	6.053e4	1.015	0.77	0.77	543.9	YES	NO	bd	bb	10.131

PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12378-PeCDD	31.44	2.288e5	1.475e5	1.022	1.55	1.55	2396.1	YES	NO	bb	bb	55.989
2	12479-PECDD	28.72	3.964e5	2.496e5	2.301	1.59	1.55	2703.6	YES	NO	bb	bb	42.685
3	12389-PECDD	31.84	2.651e5	1.644e5	1.184	1.61	1.55	2791.8	YES	NO	bb	bb	55.184

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HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDD	36.43	2.250e5	1.857e5	0.907	1.21	1.24	1771.9	YES	NO	bb	bb	51.797
2	123678-HxCDD	36.04	2.390e5	2.092e5	1.001	1.14	1.24	1859.5	YES	NO	db	db	50.012
3	123478-HxCDD	35.93	2.188e5	1.794e5	0.996	1.22	1.24	1837.9	YES	NO	bd	bd	46.920
4	Total-hexadioxins	35.01	1.685e3	1.246e3	1.005	1.35	1.24	8.8	YES	NO	db	bb	0.334
5	124679-HXCDD	33.91	2.574e5	1.989e5	1.115	1.29	1.24	1936.3	YES	NO	bb	bb	47.984

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	Total-heptadioxins	40.45	2.173e2	2.030e2	1.088	1.07	1.05	4.5	YES	NO	bb	bb	0.055
2	1234678-HpCDD	40.17	1.822e5	1.780e5	1.039	1.02	1.05	1324.0	YES	NO	bb	bb	49.428
3	1234679-HPCDD	39.12	2.072e5	1.979e5	1.137	1.05	1.05	1623.0	YES	NO	bb	bb	50.805

Dioxins,TD,PD,HD,HPD,OD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDD	26.93	4.182e4	5.388e4	0.909	0.78	0.77	462.8	YES	NO	bb	bd	10.111
2	2378-TCDD	26.34	4.808e4	6.317e4	1.149	0.76	0.77	545.0	YES	NO	bb	dd	9.299
3	Total-tetradioxins	26.01	7.053e4	9.140e4	1.024	0.77	0.77	564.2	YES	NO	bd	bd	15.178
4	Total-tetradioxins	25.52	2.289e4	2.878e4	1.024	0.80	0.77	280.5	YES	NO	bd	bb	4.844
5	1368-TCDD	23.47	4.662e4	6.053e4	1.015	0.77	0.77	543.9	YES	NO	bd	bb	10.131
6	12378-PeCDD	31.44	2.288e5	1.475e5	1.022	1.55	1.55	2396.1	YES	NO	bb	bb	55.989
7	12479-PECDD	28.72	3.964e5	2.496e5	2.301	1.59	1.55	2703.6	YES	NO	bb	bb	42.685
8	123789-HxCDD	36.43	2.250e5	1.857e5	0.907	1.21	1.24	1771.9	YES	NO	bb	bb	51.797
9	123678-HxCDD	36.04	2.390e5	2.092e5	1.001	1.14	1.24	1859.5	YES	NO	db	db	50.012
10	123478-HxCDD	35.93	2.188e5	1.794e5	0.996	1.22	1.24	1837.9	YES	NO	bd	bd	46.920
11	Total-hexadioxins	35.01	1.685e3	1.246e3	1.005	1.35	1.24	8.8	YES	NO	db	bb	0.334
12	124679-HXCDD	33.91	2.574e5	1.989e5	1.115	1.29	1.24	1936.3	YES	NO	bb	bb	47.984
13	12389-PECDD	31.84	2.651e5	1.644e5	1.184	1.61	1.55	2791.8	YES	NO	bb	bb	55.184
14	Total-heptadioxins	40.45	2.173e2	2.030e2	1.088	1.07	1.05	4.5	YES	NO	bb	bb	0.055
15	1234678-HpCDD	40.17	1.822e5	1.780e5	1.039	1.02	1.05	1324.0	YES	NO	bb	bb	49.428
16	1234679-HPCDD	39.12	2.072e5	1.979e5	1.137	1.05	1.05	1623.0	YES	NO	bb	bb	50.805
17	OCDD	44.88	2.903e5	3.310e5	0.920	0.88	0.89	1385.1	YES	NO	bb	bb	99.268

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TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.19	3.483e4	4.900e4	0.678	0.71	0.77	659.6	YES	NO	bb	db	9.476
2	2378-TCDF	25.69	4.034e4	5.338e4	0.702	0.76	0.77	748.8	YES	NO	bb	bb	10.238
3	1368-TCDF	22.19	5.039e4	6.421e4	0.802	0.78	0.77	981.9	YES	NO	bb	bb	10.958
4	12389-PECDF	32.23	2.651e5	1.697e5	0.496	1.56	1.55	1739.3	YES	NO	bb	bb	75.293
5	23478-PeCDF	31.18	2.857e5	1.882e5	0.786	1.52	1.55	1965.8	YES	NO	bb	bb	54.441
6	12378-PeCDF	29.84	2.807e5	1.784e5	0.679	1.57	1.55	1913.2	YES	NO	bb	bb	58.089
7	Total-pentafurans	28.70	4.616e4	2.956e4	0.654	1.56	1.55	317.0	YES	NO	bb	bb	10.199
8	123478-HxCDF	34.80	2.878e5	2.308e5	1.166	1.25	1.24	2216.7	YES	NO	bd	bd	46.807
9	123468-HXCDF	33.14	2.907e5	2.331e5	1.169	1.25	1.24	2123.2	YES	NO	bb	bb	47.158
10	123789-HxCDF	36.84	2.212e5	1.755e5	1.137	1.26	1.24	1592.4	YES	NO	bb	bb	46.303
11	234678-HxCDF	35.82	2.825e5	2.278e5	1.140	1.24	1.24	2098.3	YES	NO	bb	bb	47.740
12	123678-HxCDF	34.95	3.043e5	2.451e5	1.091	1.24	1.24	2266.1	YES	NO	db	db	49.229
13	1234789-HpCDF	40.92	1.576e5	1.529e5	0.953	1.03	1.05	889.8	YES	NO	bb	bb	48.614
14	Total-heptafurans	39.35	1.054e3	1.046e3	0.978	1.01	1.05	6.0	YES	NO	bb	bb	0.278
15	1234678-HpCDF	38.68	2.057e5	2.009e5	1.003	1.02	1.05	1381.1	YES	NO	bb	bb	46.399
16	OCDF	45.12	2.315e5	2.460e5	0.778	0.94	0.89	1496.9	YES	NO	bb	bb	90.243
17	13468-PECDF	27.05	4.326e5	2.861e5	1.246	1.51	1.55	11207.5	YES	NO	bb	bb	49.561
18	1289-TCDD	26.93	4.182e4	5.388e4	0.909	0.78	0.77	462.8	YES	NO	bb	bd	10.111
19	2378-TCDD	26.34	4.808e4	6.317e4	1.149	0.76	0.77	545.0	YES	NO	bb	dd	9.299
20	Total-tetradioxins	26.01	7.053e4	9.140e4	1.024	0.77	0.77	564.2	YES	NO	bd	bd	15.178
21	Total-tetradioxins	25.52	2.289e4	2.878e4	1.024	0.80	0.77	280.5	YES	NO	bd	bb	4.844
22	1368-TCDD	23.47	4.662e4	6.053e4	1.015	0.77	0.77	543.9	YES	NO	bd	bb	10.131
23	12378-PeCDD	31.44	2.288e5	1.475e5	1.022	1.55	1.55	2396.1	YES	NO	bb	bb	55.989
24	12479-PECDD	28.72	3.964e5	2.496e5	2.301	1.59	1.55	2703.6	YES	NO	bb	bb	42.685
25	123789-HxCDD	36.43	2.250e5	1.857e5	0.907	1.21	1.24	1771.9	YES	NO	bb	bb	51.797
26	123678-HxCDD	36.04	2.390e5	2.092e5	1.001	1.14	1.24	1859.5	YES	NO	db	db	50.012
27	123478-HxCDD	35.93	2.188e5	1.794e5	0.996	1.22	1.24	1837.9	YES	NO	bd	bd	46.920
28	Total-hexadioxins	35.01	1.685e3	1.246e3	1.005	1.35	1.24	8.8	YES	NO	db	bb	0.334
29	124679-HXCDD	33.91	2.574e5	1.989e5	1.115	1.29	1.24	1936.3	YES	NO	bb	bb	47.984
30	12389-PECDD	31.84	2.651e5	1.644e5	1.184	1.61	1.55	2791.8	YES	NO	bb	bb	55.184
31	Total-heptadioxins	40.45	2.173e2	2.030e2	1.088	1.07	1.05	4.5	YES	NO	bb	bb	0.055
32	1234678-HpCDD	40.17	1.822e5	1.780e5	1.039	1.02	1.05	1324.0	YES	NO	bb	bb	49.428
33	1234679-HPCDD	39.12	2.072e5	1.979e5	1.137	1.05	1.05	1623.0	YES	NO	bb	bb	50.805
34	OCDD	44.88	2.903e5	3.310e5	0.920	0.88	0.89	1385.1	YES	NO	bb	bb	99.268

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PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	23.40	2.562e3					0.5	NO		bb		
2	FUNCTION1 PFK	23.13	2.582e3					0.5	NO		bb		
3	FUNCTION1 PFK	23.01	2.000e3					0.4	NO		bb		
4	FUNCTION1 PFK	21.47	2.065e3					0.4	NO		bb		
5	FUNCTION1 PFK	21.21	3.745e4					3.0	YES		db		
6	FUNCTION1 PFK	21.14	5.376e4					3.3	YES		bd		
7	FUNCTION1 PFK	27.91	1.885e3					0.4	NO		bb		
8	FUNCTION1 PFK	27.24	1.636e4					1.0	NO		bb		
9	FUNCTION1 PFK	26.88	8.796e3					0.9	NO		bb		
10	FUNCTION1 PFK	26.17	1.559e4					1.1	NO		db		
11	FUNCTION1 PFK	26.10	1.027e4					1.0	NO		bd		
12	FUNCTION1 PFK	25.75	1.590e4					1.0	NO		bb		
13	FUNCTION1 PFK	24.93	5.919e3					0.8	NO		bb		
14	FUNCTION1 PFK	24.87	2.628e4					2.2	NO		db		
15	FUNCTION1 PFK	24.77	5.113e4					2.1	NO		dd		
16	FUNCTION1 PFK	24.73	2.027e4					2.2	NO		bd		
17	FUNCTION1 PFK	24.66	1.833e4					1.5	NO		bb		
18	FUNCTION1 PFK	24.52	7.732e3					0.8	NO		bb		
19	FUNCTION1 PFK	24.45	1.072e4					1.0	NO		db		
20	FUNCTION1 PFK	24.40	2.640e4					1.5	NO		bd		
21	FUNCTION1 PFK	23.95	2.163e3					0.5	NO		bb		
22	FUNCTION1 PFK	23.58	1.467e4					1.3	NO		bb		

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PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	30.00	1.235e4					1.9	NO		bb		0.000
2	FUNCTION2 PFK	29.80	1.671e4					2.2	NO		bb		0.000
3	FUNCTION2 PFK	29.65	8.983e3					1.0	NO		db		0.000
4	FUNCTION2 PFK	29.62	5.606e3					1.3	NO		bd		0.000
5	FUNCTION2 PFK	29.42	1.164e4					1.5	NO		bb		0.000
6	FUNCTION2 PFK	29.18	7.045e3					1.1	NO		bb		0.000
7	FUNCTION2 PFK	28.89	3.196e3					0.9	NO		db		0.000
8	FUNCTION2 PFK	28.81	9.626e3					1.4	NO		bd		0.000
9	FUNCTION2 PFK	28.67	2.969e3					0.8	NO		bb		0.000
10	FUNCTION2 PFK	28.59	5.346e3					1.1	NO		db		0.000
11	FUNCTION2 PFK	28.53	8.407e3					1.5	NO		bd		0.000
12	FUNCTION2 PFK	28.34	2.478e3					0.7	NO		db		0.000
13	FUNCTION2 PFK	28.30	1.027e4					1.8	NO		dd		0.000
14	FUNCTION2 PFK	28.27	1.341e4					1.1	NO		bd		0.000
15	FUNCTION2 PFK	28.17	4.551e3					1.2	NO		bb		0.000
16	FUNCTION2 PFK	32.56	1.004e4					1.3	NO		bb		0.000
17	FUNCTION2 PFK	32.45	3.923e3					0.9	NO		bb		0.000
18	FUNCTION2 PFK	32.17	4.066e3					1.0	NO		bb		0.000
19	FUNCTION2 PFK	31.92	1.529e4					1.6	NO		bb		0.000
20	FUNCTION2 PFK	31.74	9.082e3					1.8	NO		bb		0.000
21	FUNCTION2 PFK	31.66	7.338e3					1.1	NO		bb		0.000
22	FUNCTION2 PFK	31.58	2.692e3					0.7	NO		bb		0.000
23	FUNCTION2 PFK	31.37	1.038e3					0.6	NO		bb		0.000
24	FUNCTION2 PFK	31.33	3.357e3					1.0	NO		bb		0.000
25	FUNCTION2 PFK	30.96	3.125e3					0.8	NO		bb		0.000
26	FUNCTION2 PFK	30.68	4.786e3					0.7	NO		bb		0.000
27	FUNCTION2 PFK	30.51	1.215e4					1.6	NO		db		0.000
28	FUNCTION2 PFK	30.43	1.225e4					1.4	NO		bd		0.000
29	FUNCTION2 PFK	30.25	4.794e3					1.1	NO		bb		0.000
30	FUNCTION2 PFK	30.19	2.785e3					1.0	NO		bb		0.000
31	FUNCTION2 PFK	30.15	5.202e3					1.1	NO		bb		0.000
32	FUNCTION2 PFK	32.73	1.754e4					2.0	NO		db		0.000
33	FUNCTION2 PFK	32.69	3.840e3					1.1	NO		bd		0.000

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PFK3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	32.99	1.852e4					3.7	YES		bb		0.000

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PFK4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	39.57	1.866e4					2.0	NO		bb		
2	FUNCTION4 PFK	39.02	9.528e3					1.2	NO		bb		
3	FUNCTION4 PFK	38.83	6.290e3					1.2	NO		bb		
4	FUNCTION4 PFK	38.58	5.750e3					1.2	NO		bb		
5	FUNCTION4 PFK	38.52	7.848e3					1.3	NO		bb		
6	FUNCTION4 PFK	38.39	1.179e3					0.5	NO		bb		
7	FUNCTION4 PFK	38.34	2.416e3					0.7	NO		bb		
8	FUNCTION4 PFK	38.28	1.115e4					1.7	NO		bb		
9	FUNCTION4 PFK	38.22	3.858e3					1.0	NO		bb		
10	FUNCTION4 PFK	38.08	6.637e3					1.2	NO		db		
11	FUNCTION4 PFK	38.03	3.955e3					0.8	NO		bd		
12	FUNCTION4 PFK	42.17	8.867e3					1.8	NO		bd		
13	FUNCTION4 PFK	41.97	1.378e4					1.6	NO		bb		
14	FUNCTION4 PFK	41.45	7.751e3					1.2	NO		bb		
15	FUNCTION4 PFK	41.38	5.091e3					0.9	NO		bb		
16	FUNCTION4 PFK	41.30	1.040e4					1.7	NO		db		
17	FUNCTION4 PFK	41.24	1.090e4					1.2	NO		bd		
18	FUNCTION4 PFK	41.17	1.033e4					1.4	NO		bb		
19	FUNCTION4 PFK	40.99	1.483e4					2.0	NO		bb		
20	FUNCTION4 PFK	40.90	1.357e4					1.7	NO		db		
21	FUNCTION4 PFK	40.82	5.556e3					1.2	NO		bd		
22	FUNCTION4 PFK	40.70	1.040e4					1.5	NO		bb		
23	FUNCTION4 PFK	40.49	6.520e3					1.3	NO		db		
24	FUNCTION4 PFK	40.46	1.805e4					1.5	NO		bd		
25	FUNCTION4 PFK	40.05	1.693e4					1.9	NO		db		
26	FUNCTION4 PFK	40.00	1.139e4					1.7	NO		bd		
27	FUNCTION4 PFK	39.70	3.329e3					0.7	NO		bb		
28	FUNCTION4 PFK	42.69	1.119e4					1.1	NO		bb		
29	FUNCTION4 PFK	42.61	1.908e3					0.5	NO		bb		
30	FUNCTION4 PFK	42.39	5.446e3					0.9	NO		bb		
31	FUNCTION4 PFK	42.33	1.519e4					1.8	NO		db		
32	FUNCTION4 PFK	42.26	1.184e4					1.6	NO		bd		
33	FUNCTION4 PFK	42.20	8.565e3					1.6	NO		db		

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PFK5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 PFK	45.34	8.253e2					0.7	NO		bb		
2	FUNCTION5 PFK	45.26	1.014e4					1.7	NO		bb		
3	FUNCTION5 PFK	44.83	6.721e2					0.6	NO		bb		
4	FUNCTION5 PFK	44.69	5.022e3					1.6	NO		bb		
5	FUNCTION5 PFK	43.27	6.724e2					0.6	NO		bb		
6	FUNCTION5 PFK	43.16	8.751e3					2.2	NO		bb		

ETHERS1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	27.13	8.586e1					2.2	NO		db		0.000
2	FUNCTION1 HXCD...	27.05	1.814e2					3.7	YES		bd		0.000
3	FUNCTION1 HXCD...	27.61	1.478e2					2.8	NO		bb		0.000

ETHERS2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	32.55	1.191e2					2.7	NO		bb		0.000
2	FUNCTION2 HPCD...	32.38	1.275e2					1.3	NO		bb		0.000
3	FUNCTION2 HPCD...	31.81	1.523e2					1.9	NO		bb		0.000
4	FUNCTION2 HPCD...	31.23	8.509e1					1.9	NO		bb		0.000
5	FUNCTION2 HPCD...	31.07	1.505e2					2.6	NO		bb		0.000
6	FUNCTION2 HPCD...	30.90	1.155e2					2.4	NO		bb		0.000
7	FUNCTION2 HPCD...	30.02	8.221e1					1.3	NO		bb		0.000
8	FUNCTION2 HPCD...	29.74	1.040e2					2.2	NO		bb		0.000
9	FUNCTION2 HPCD...	28.23	1.090e2					1.7	NO		bb		0.000

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ETHERS4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	36.89	1.034e2					3.1	YES		bb		0.000
2	FUNCTION3 OCDPE	36.42	1.867e2					5.2	YES		bb		0.000
3	FUNCTION3 OCDPE	35.93	1.126e2					4.0	YES		bb		0.000

ETHERS5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	42.30	9.767e1					1.6	NO		bb		0.000
2	FUNCTION4 NCDPE	40.16	1.187e2					2.4	NO		bb		0.000
3	FUNCTION4 NCDPE	38.71	7.687e1					1.5	NO		bb		0.000

ETHERS6

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

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Printed: Tuesday, April 25, 2023 11:22:57 Pacific Daylight Time

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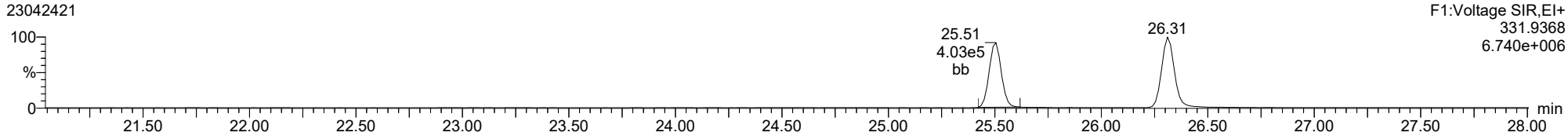
ID: CS3H3, Name: 23042421, Date: 25-Apr-2023, Time: 06:52:00, Conditions: AUTOSPEC01, User: pk

13C-1234-TCDD



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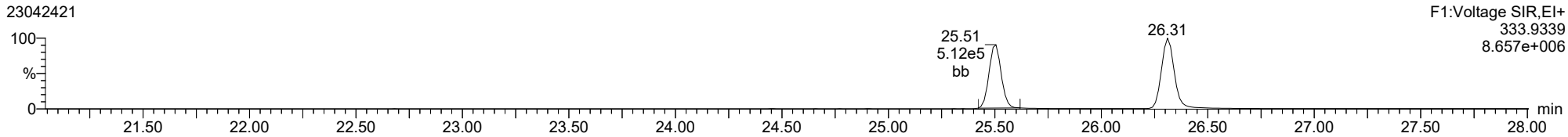

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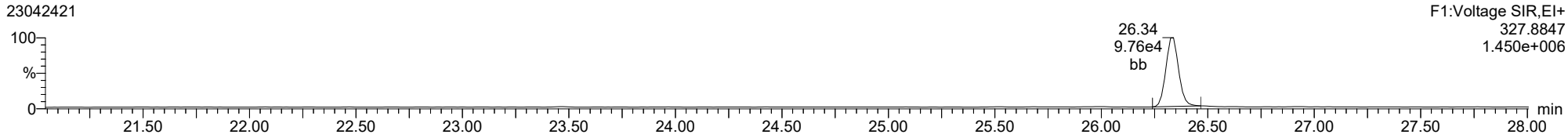

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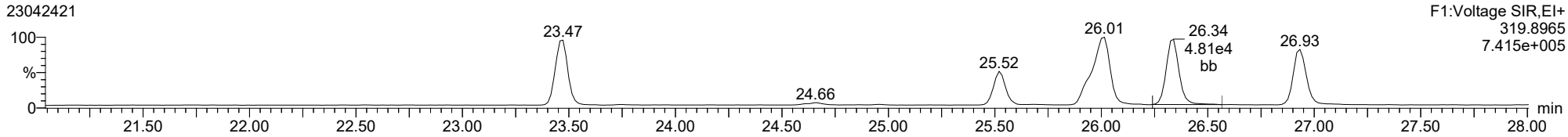
2378-TCDD



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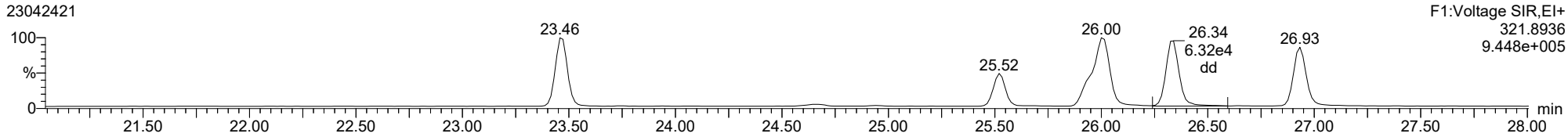

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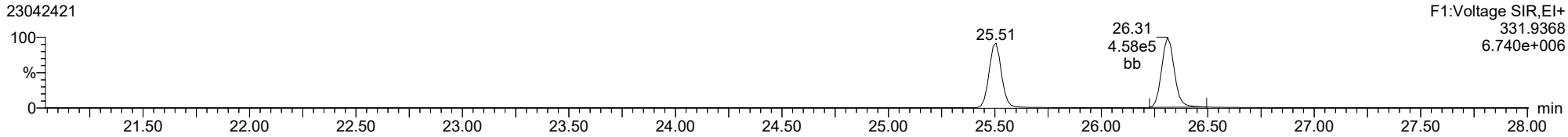

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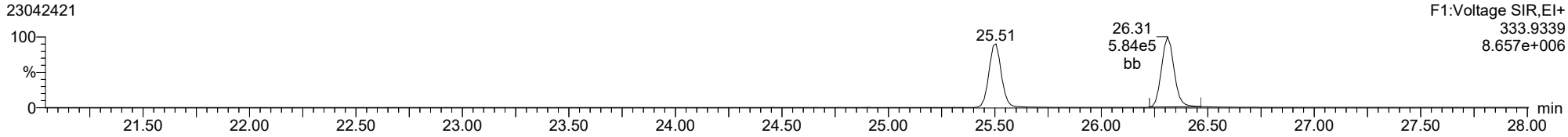

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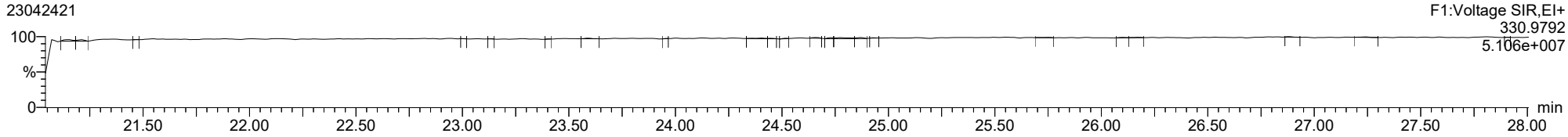

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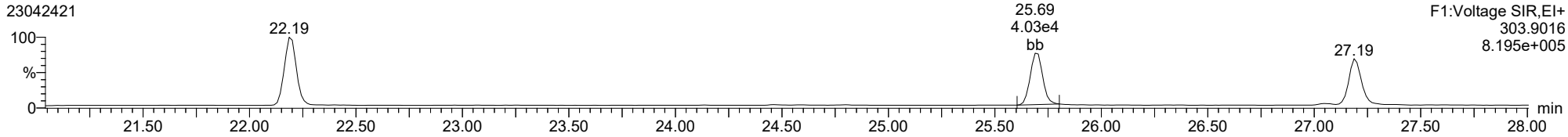
2378-TCDF



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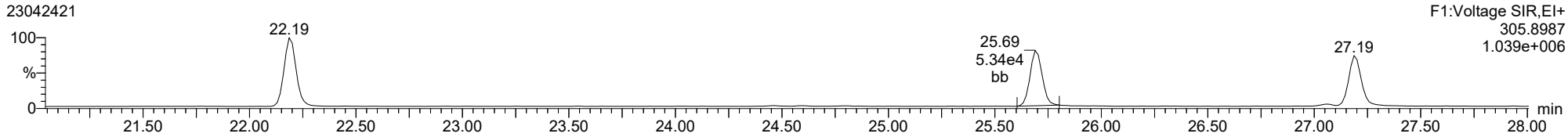

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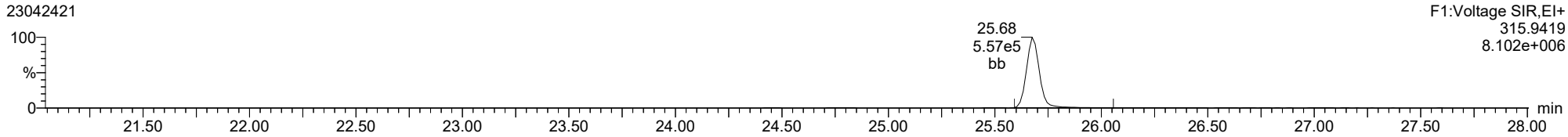

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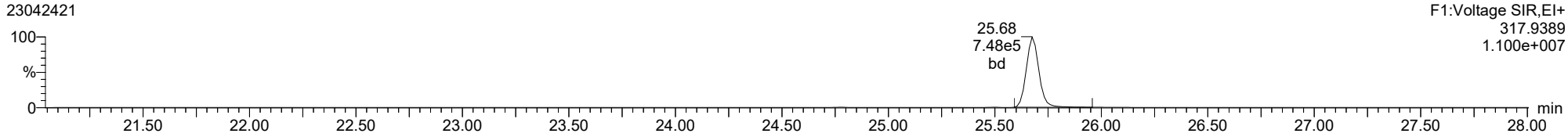

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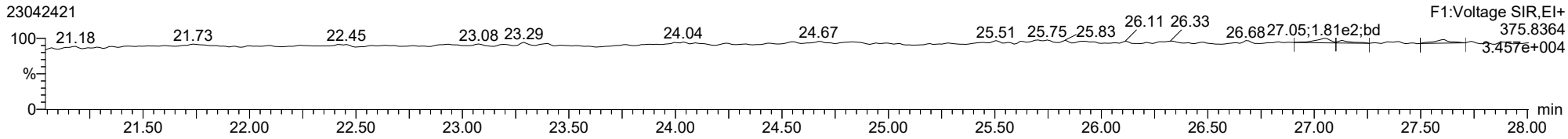

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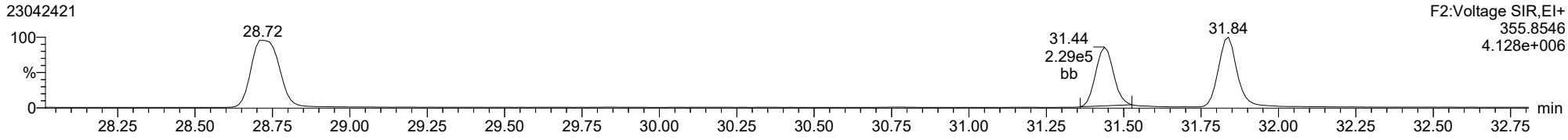
12378-PeCDD



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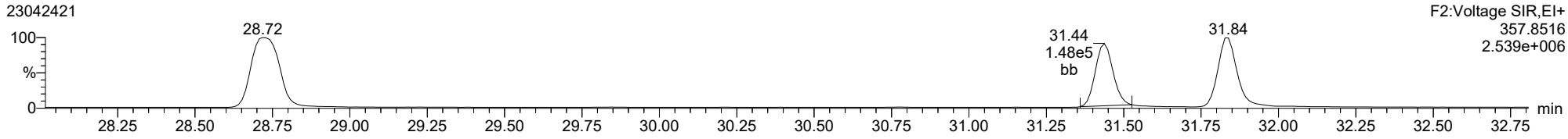

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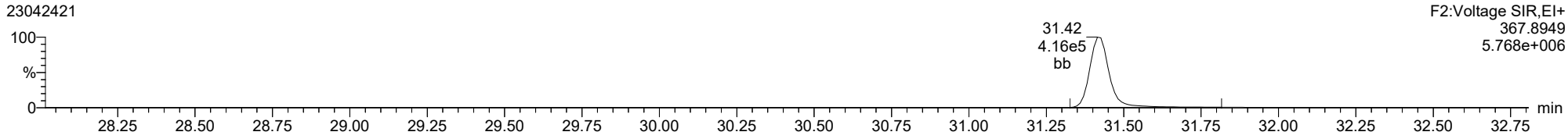

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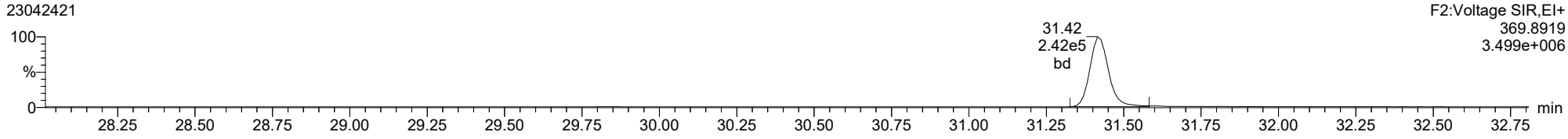

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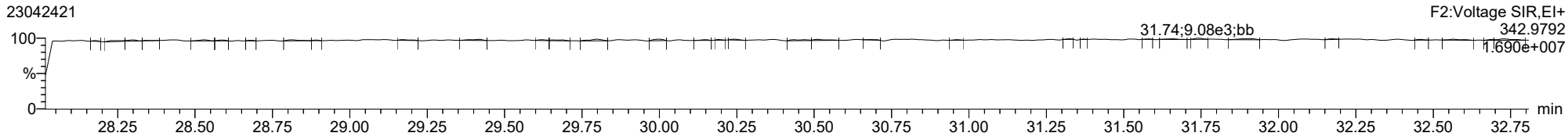

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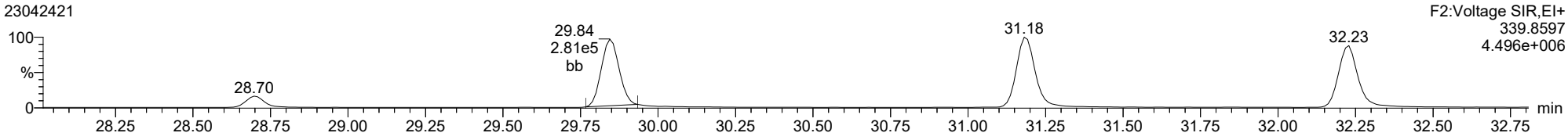

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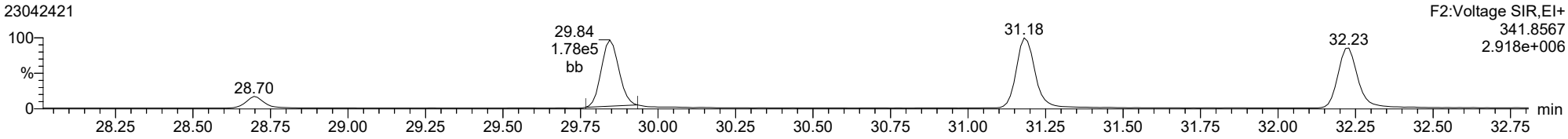

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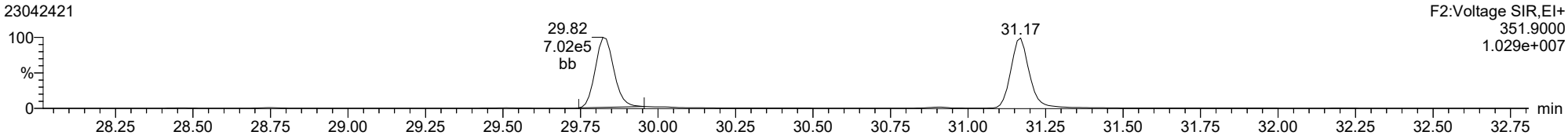

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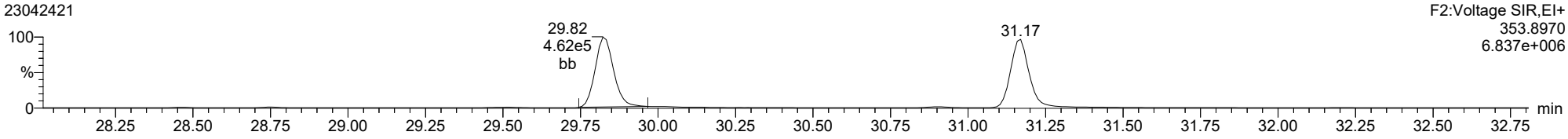

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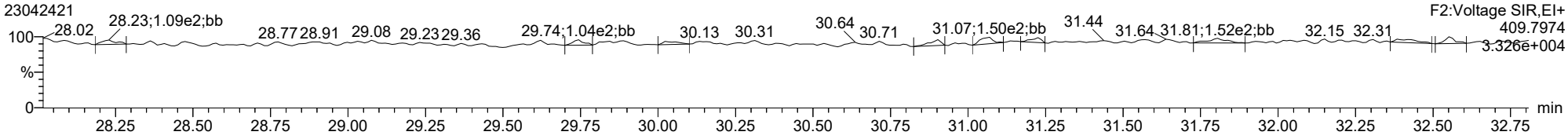

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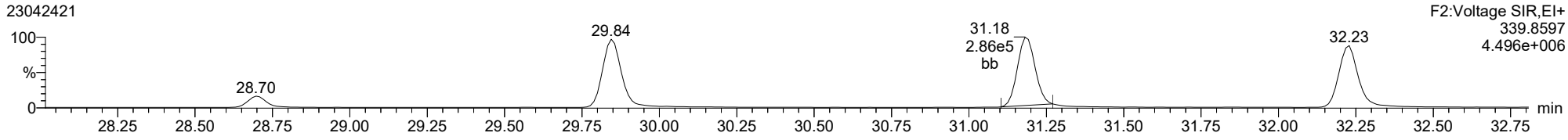
23478-PeCDF



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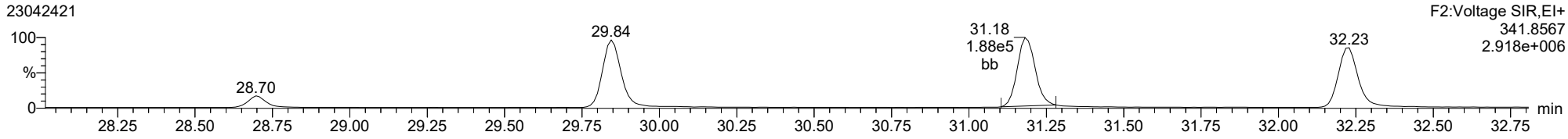

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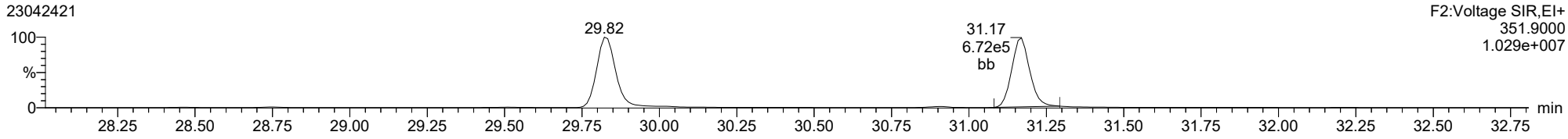

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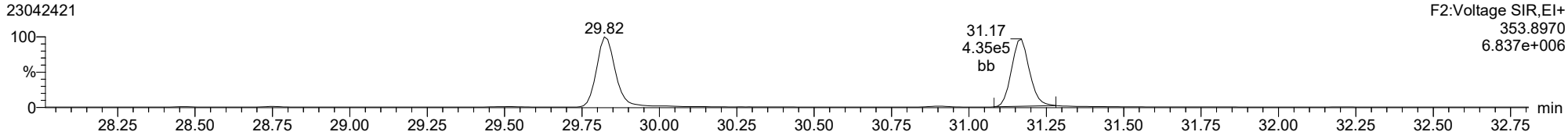

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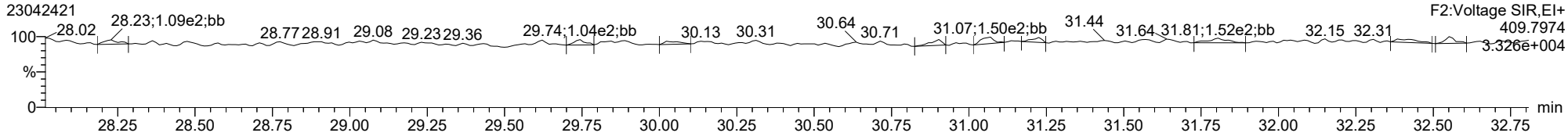

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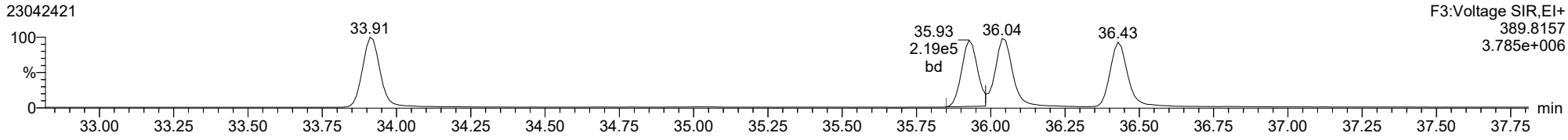

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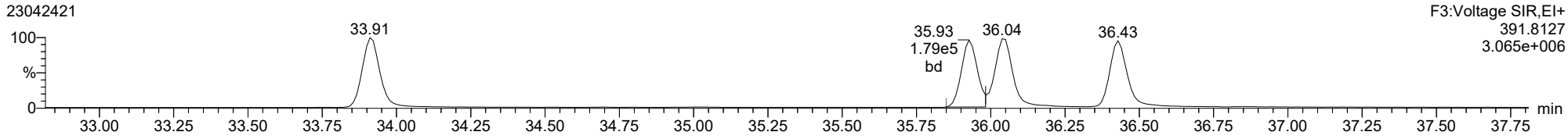

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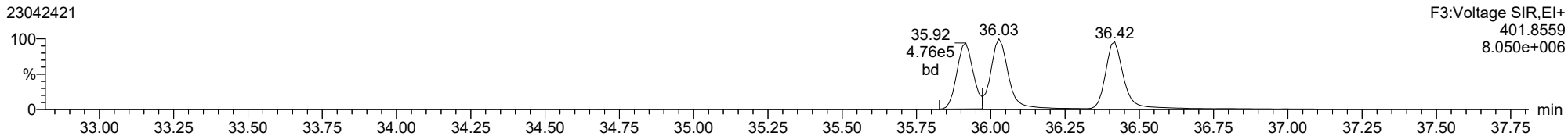

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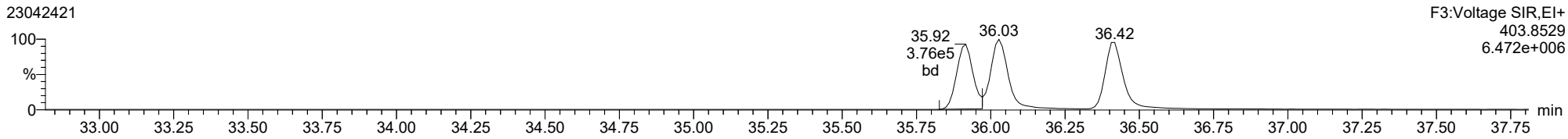

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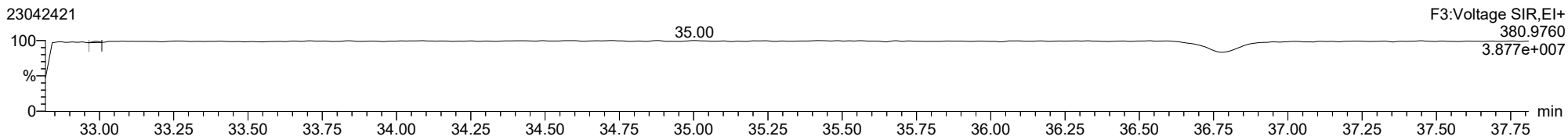

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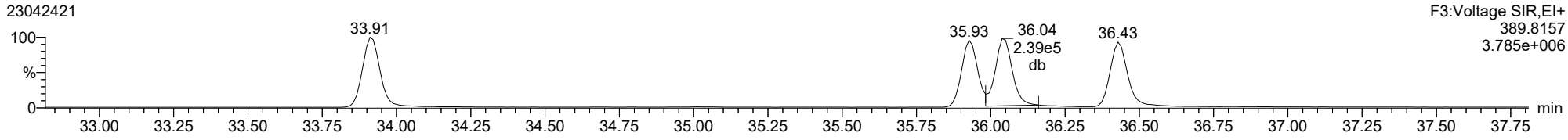

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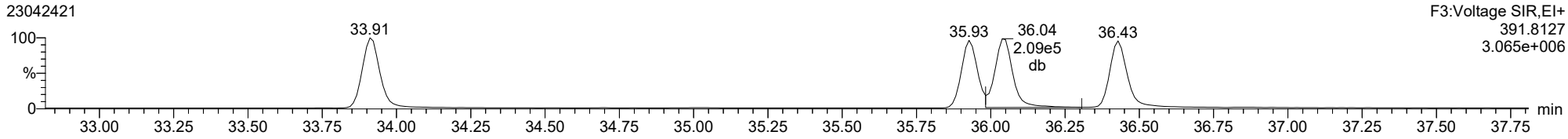

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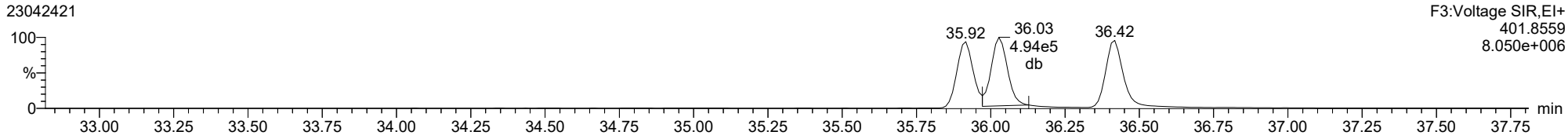

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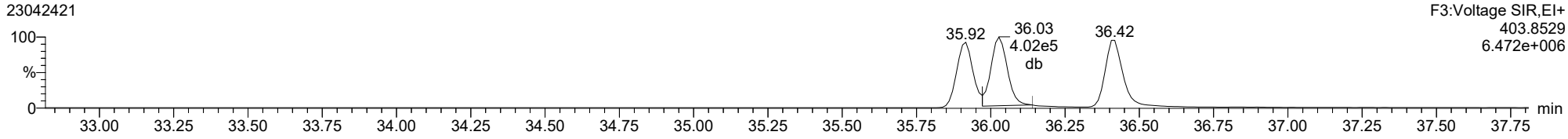

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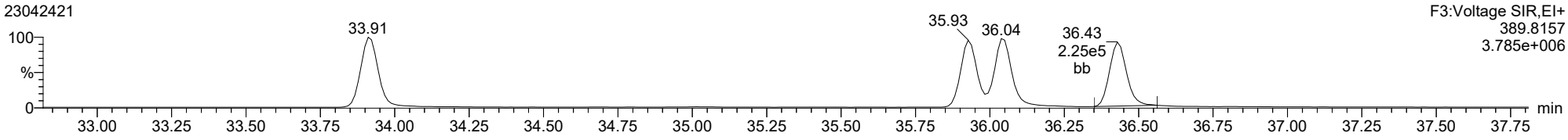

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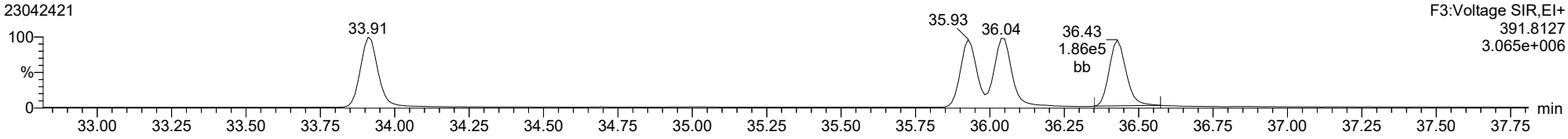

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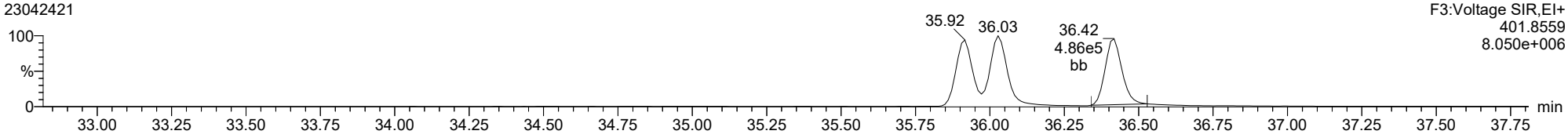

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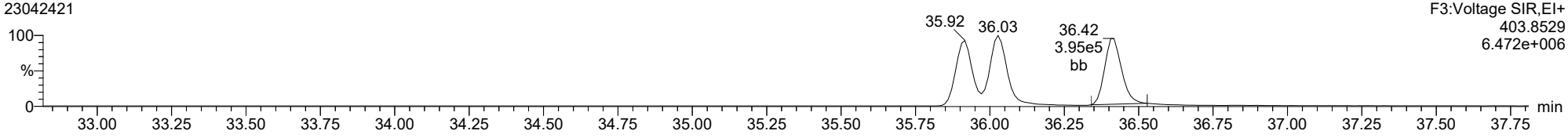

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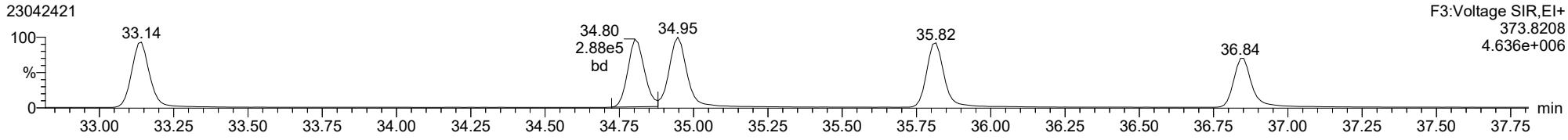

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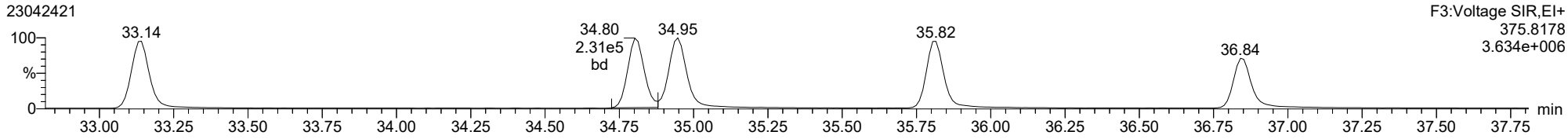

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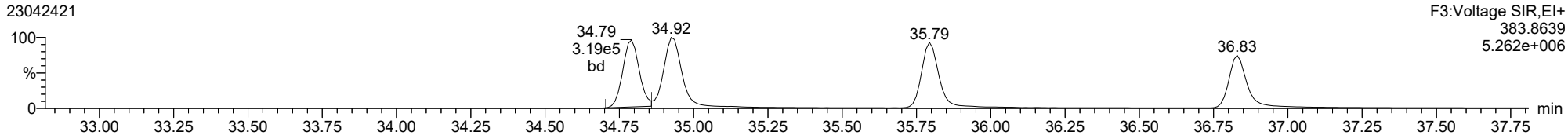

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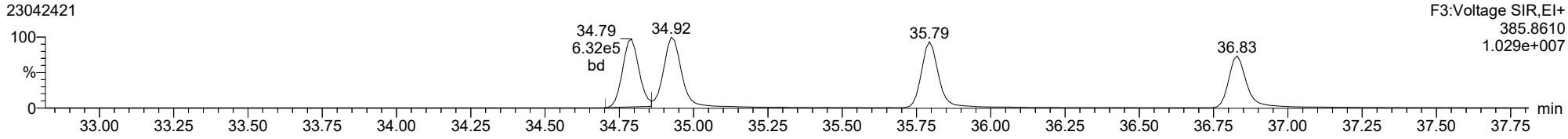
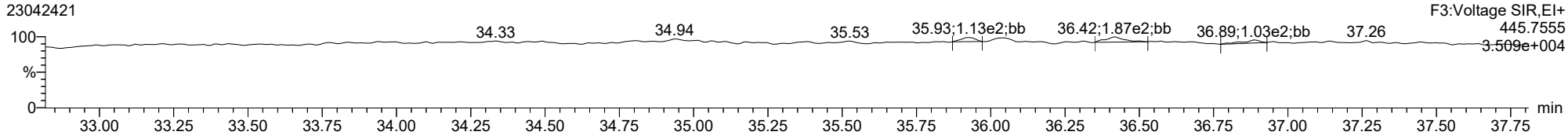


FUNCTION3 OCDPE



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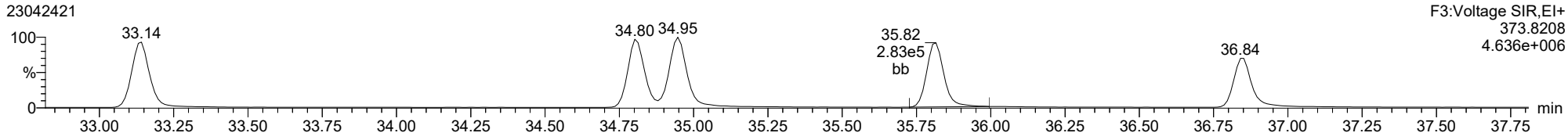
234678-HxCDF



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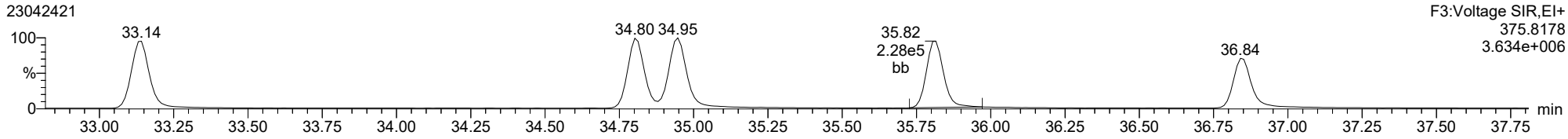

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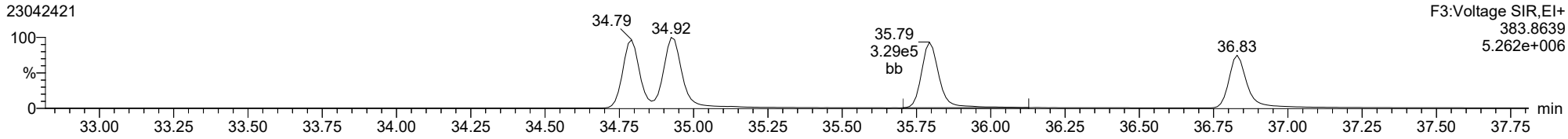

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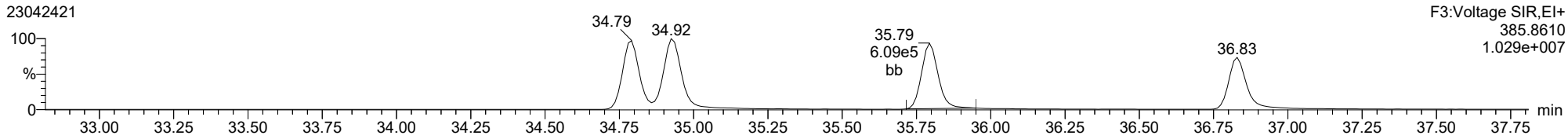

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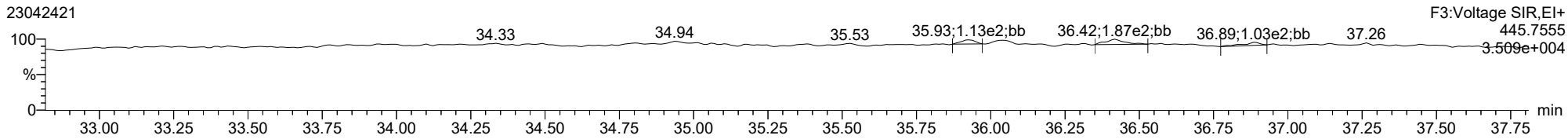

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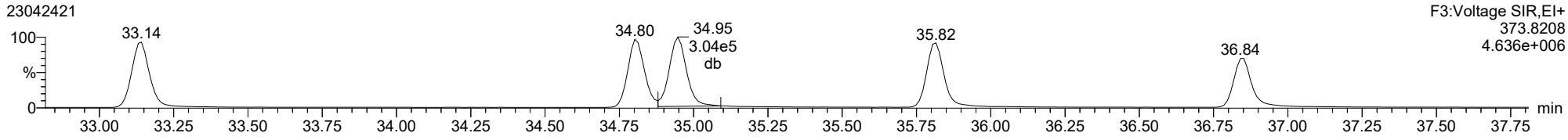

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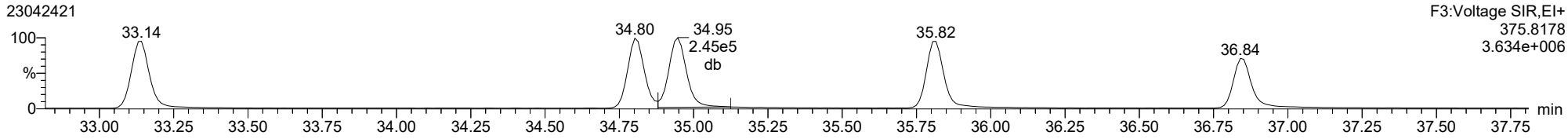

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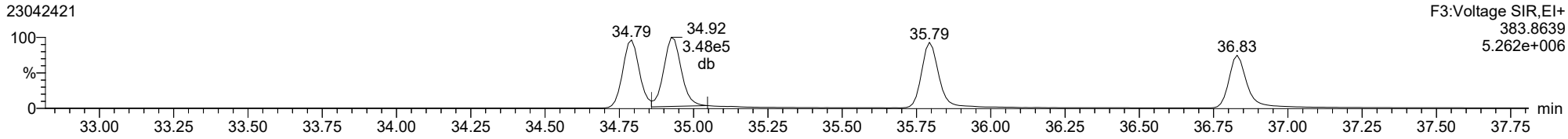

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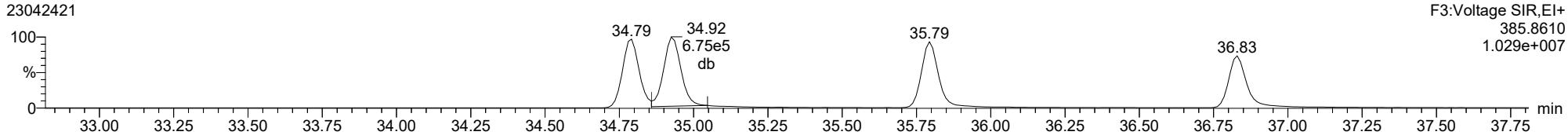
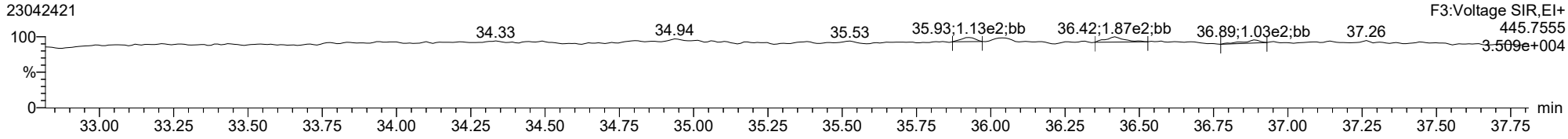


FUNCTION3 OCDPE



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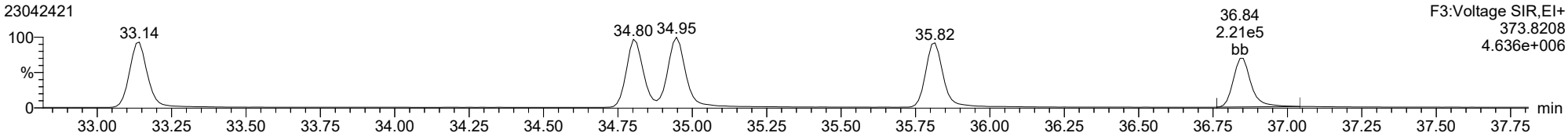

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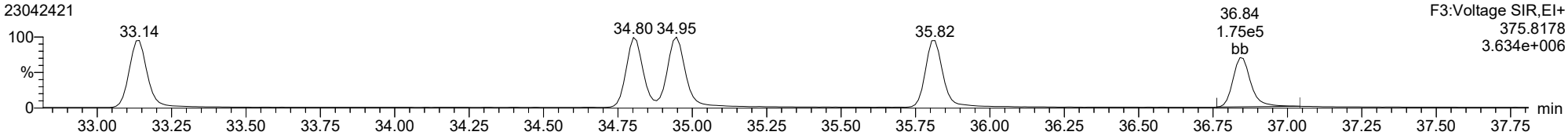

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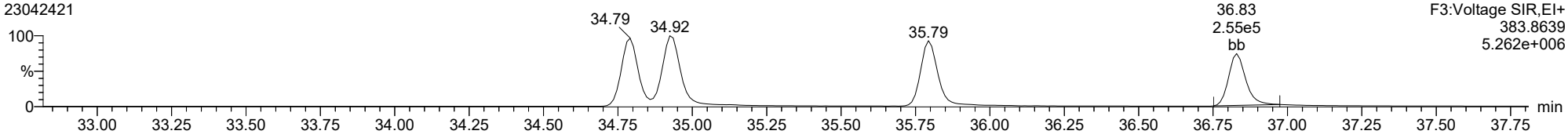

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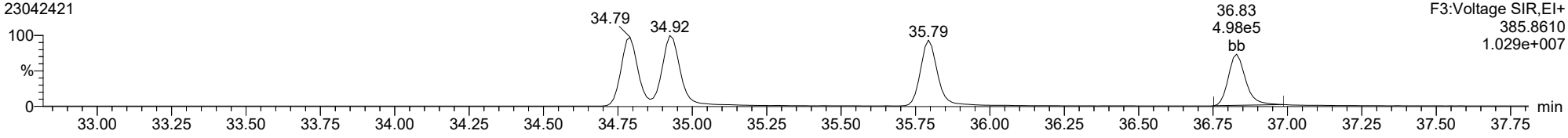
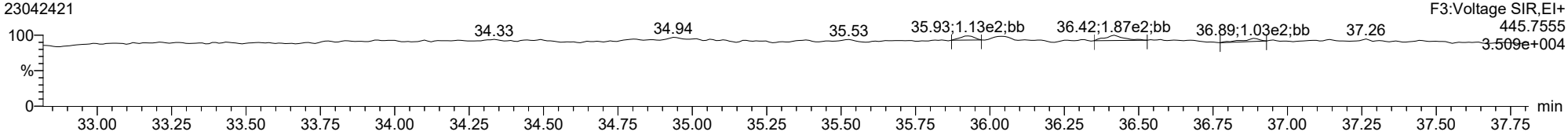


FUNCTION3 OCDPE



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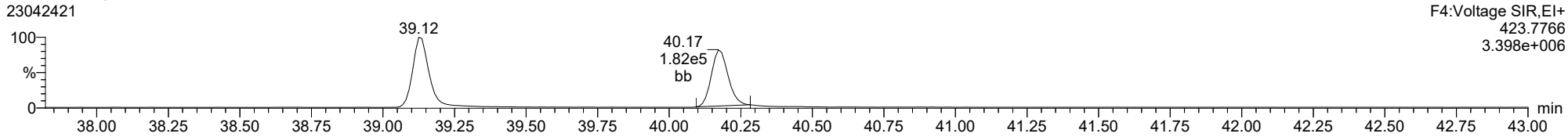
1234678-HpCDD



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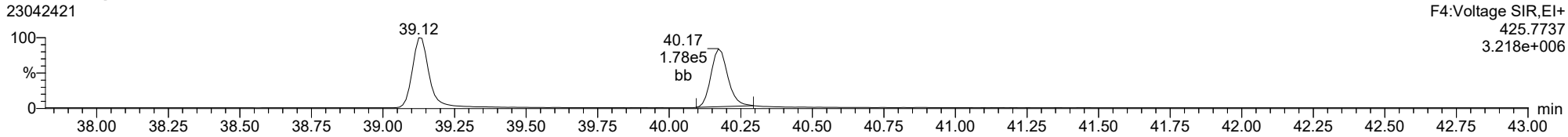

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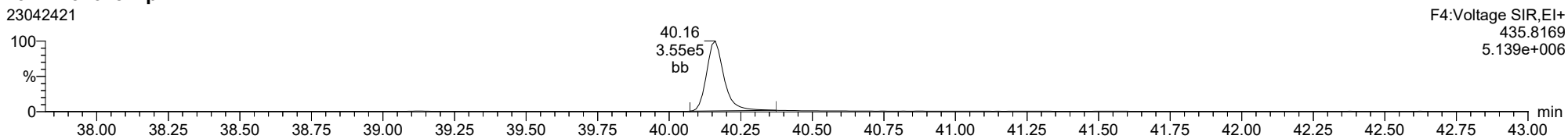

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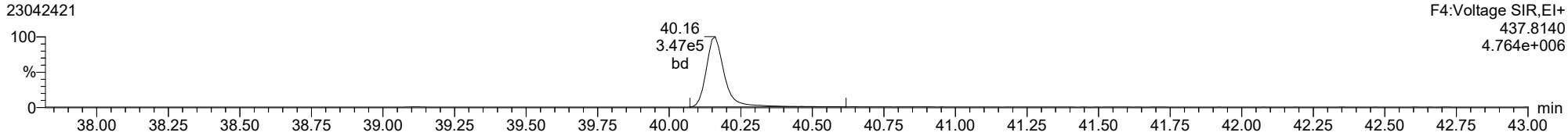

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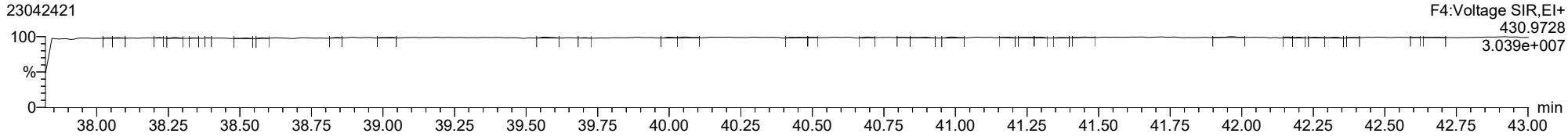

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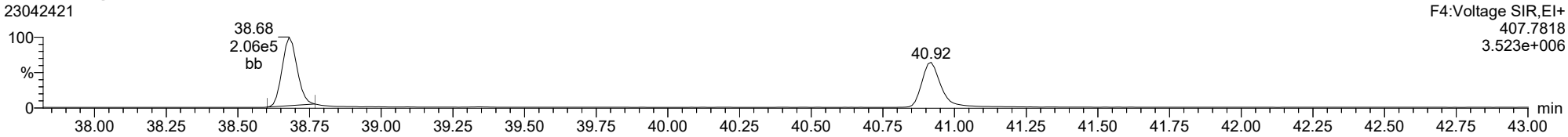

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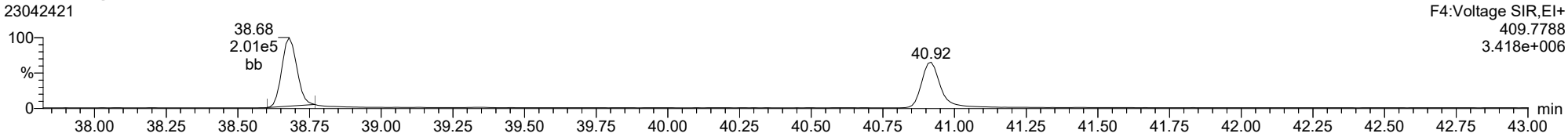

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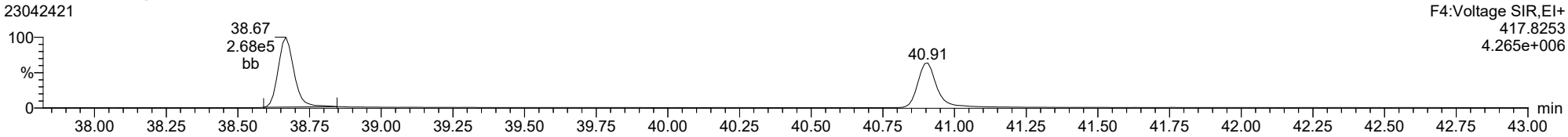

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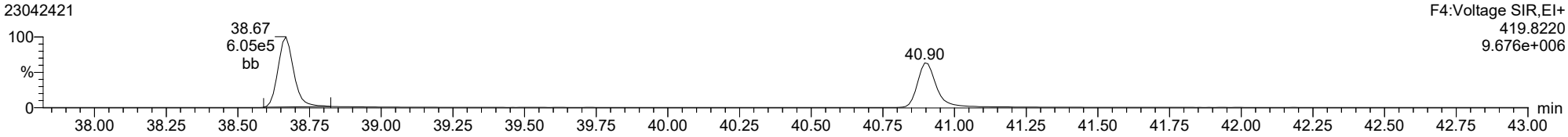

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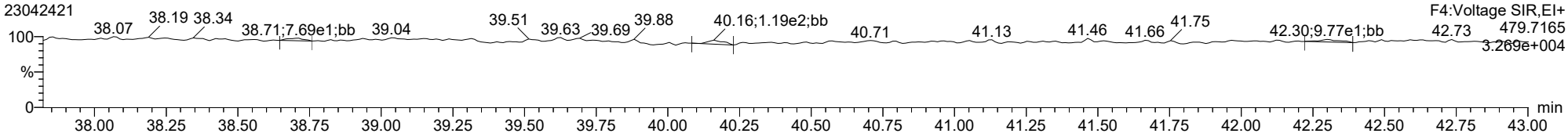

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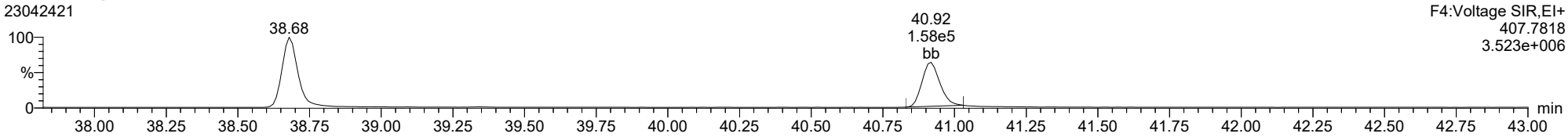

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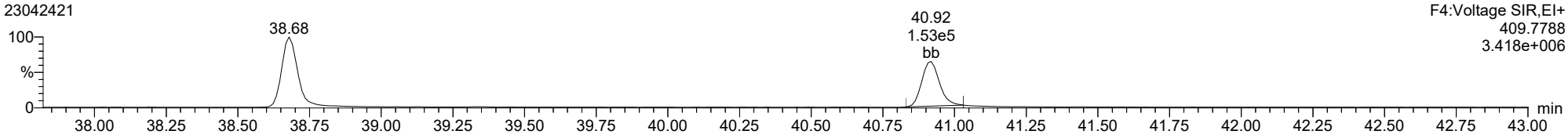

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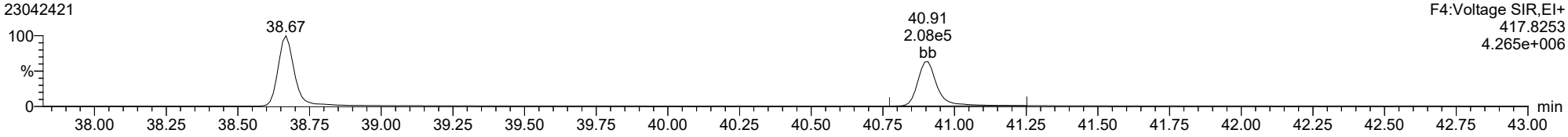

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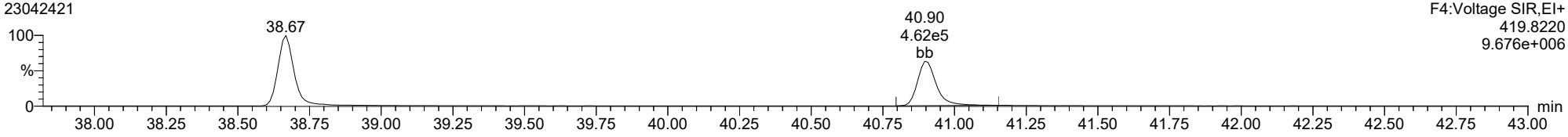

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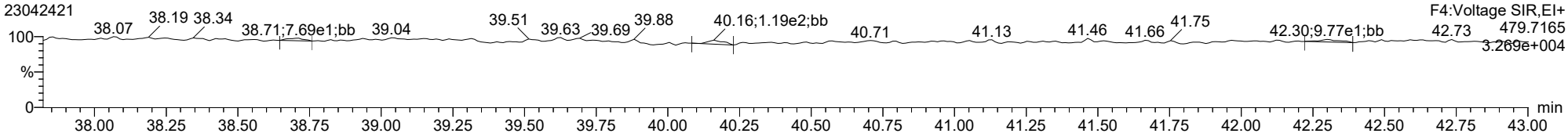

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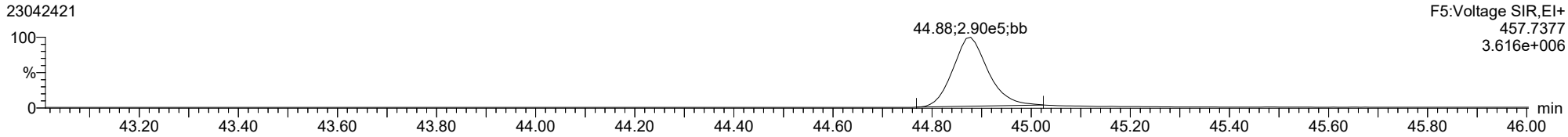

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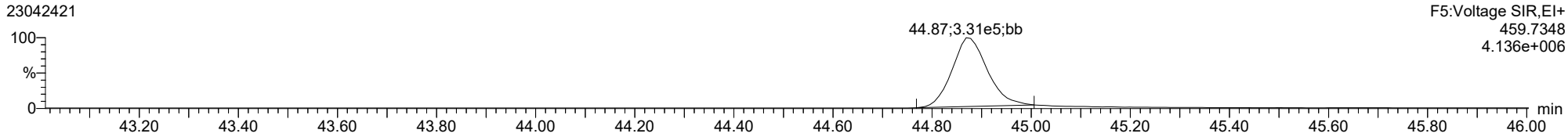

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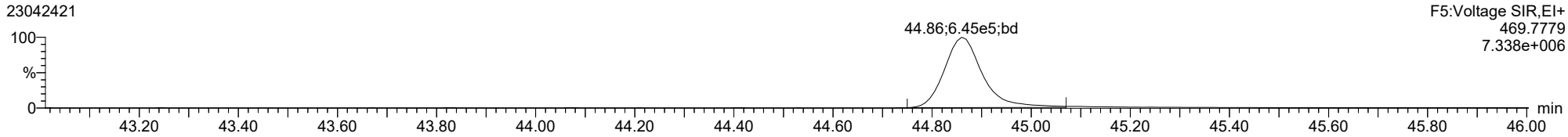

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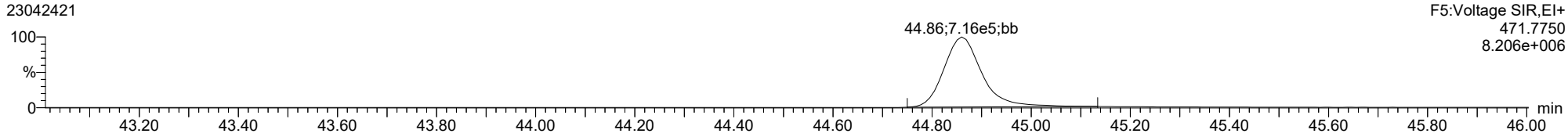

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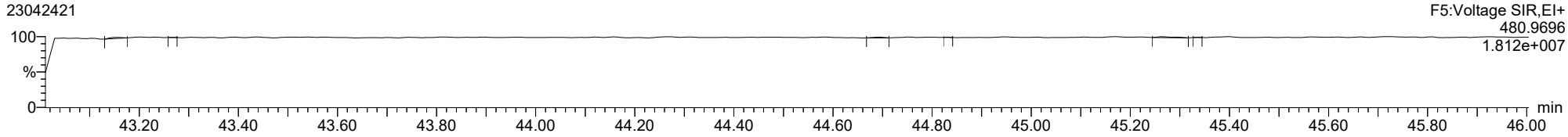

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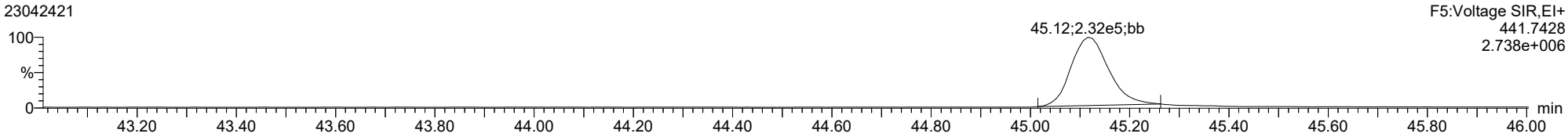

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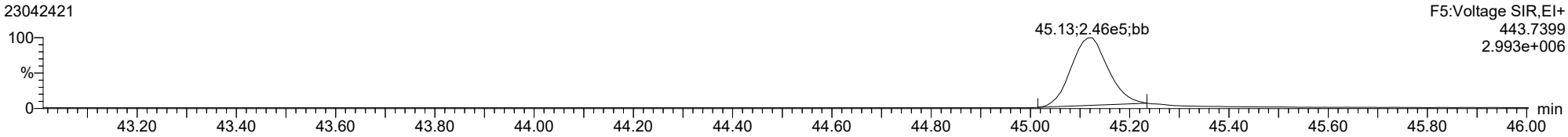

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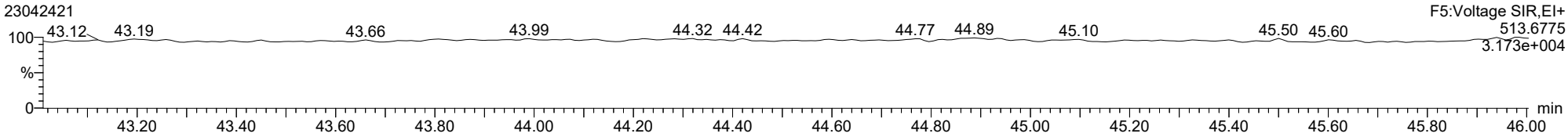

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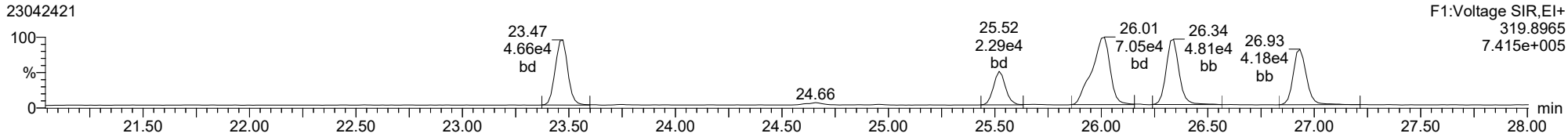

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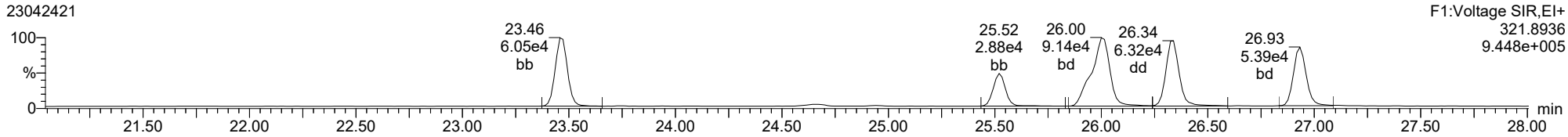

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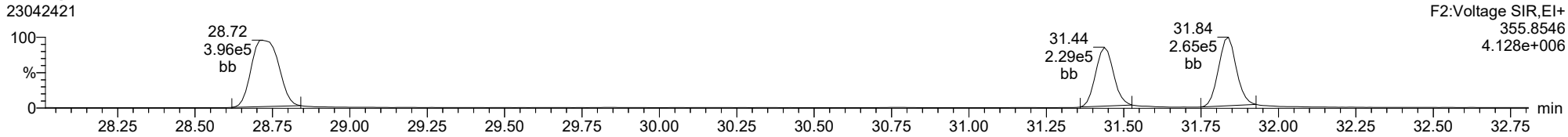

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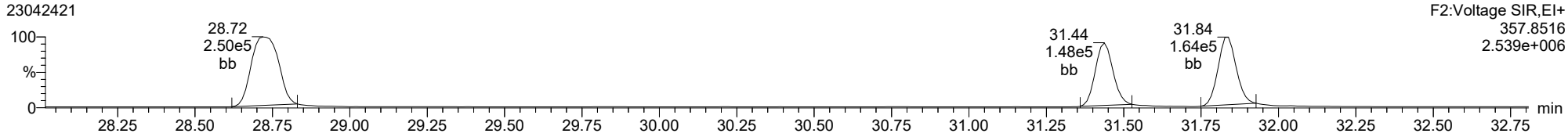

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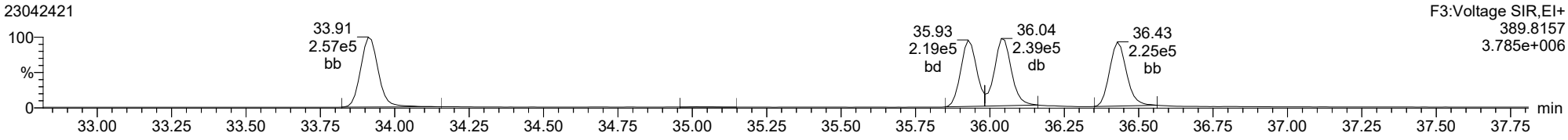

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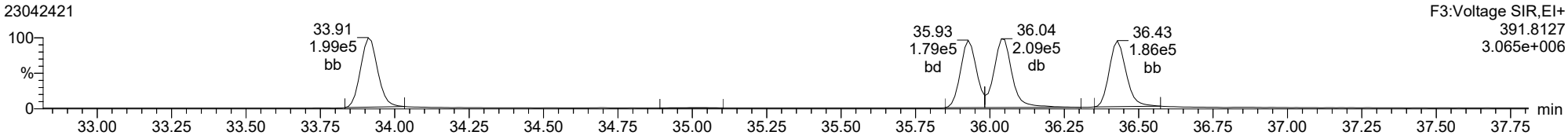

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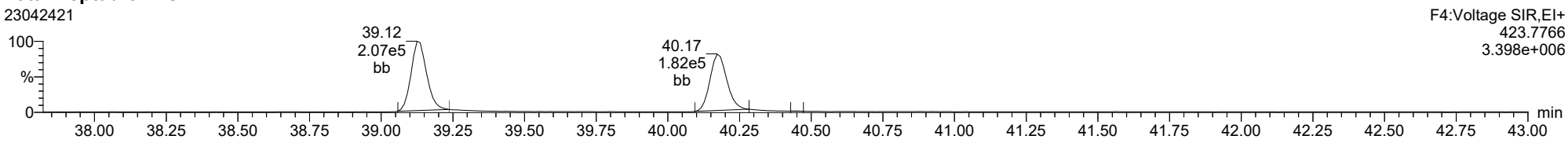

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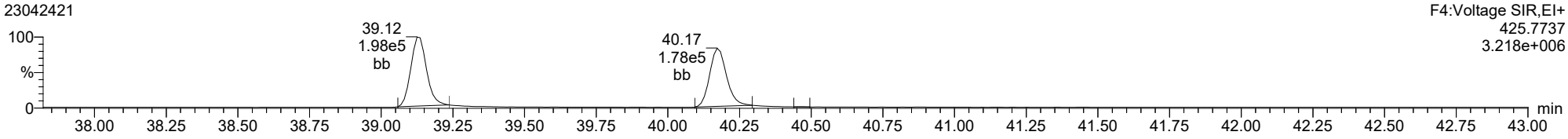

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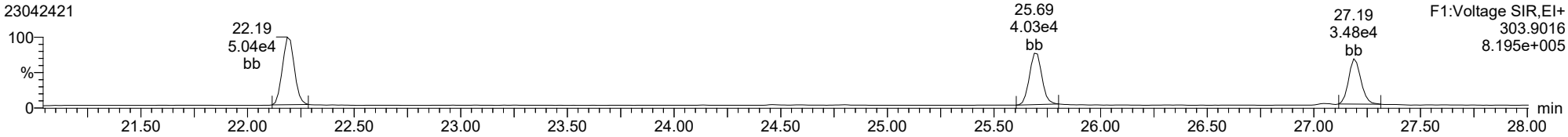

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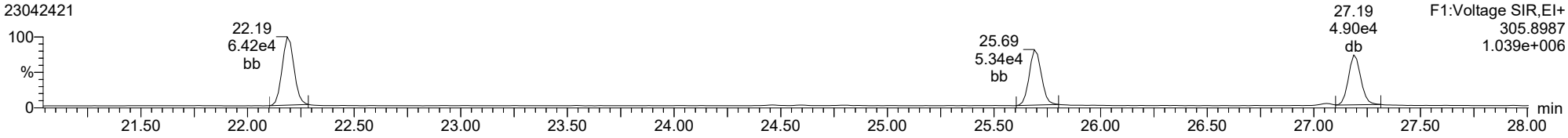

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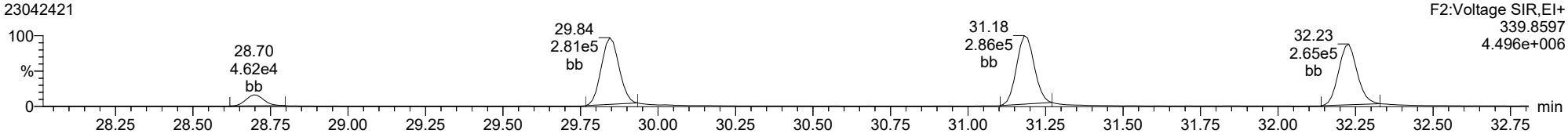

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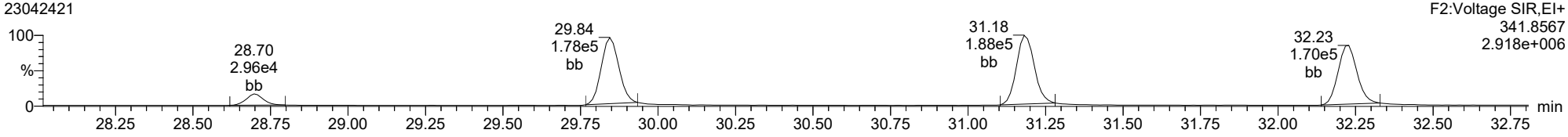

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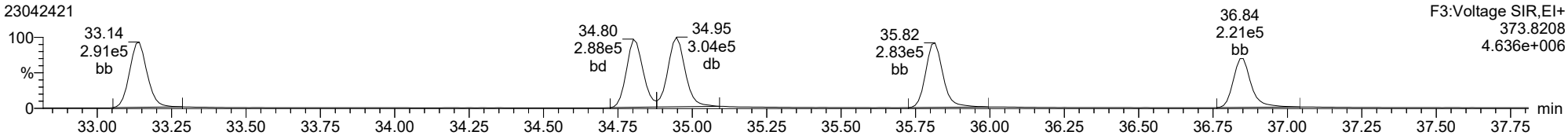

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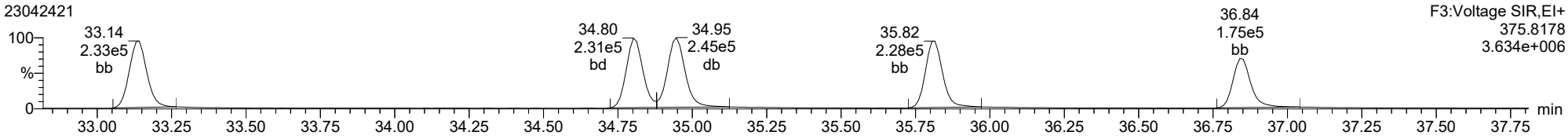

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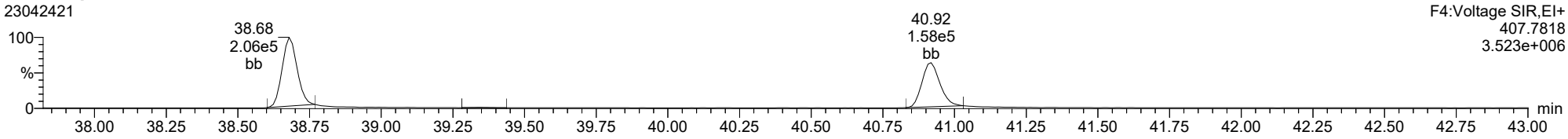

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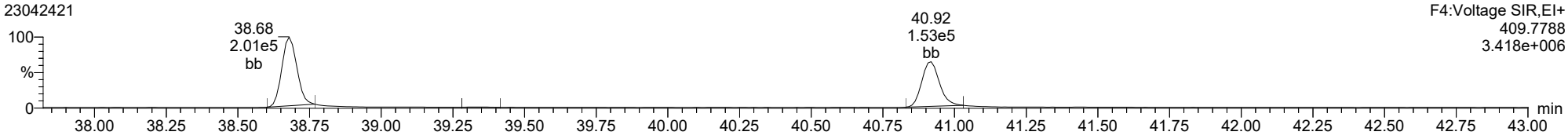

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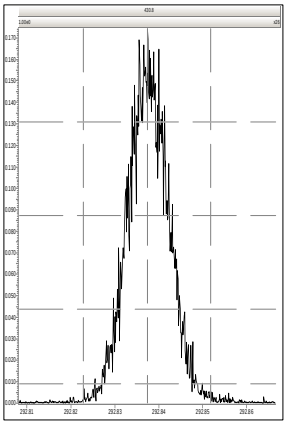

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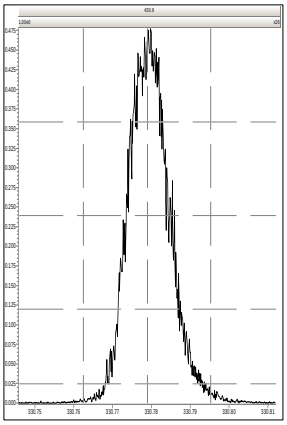

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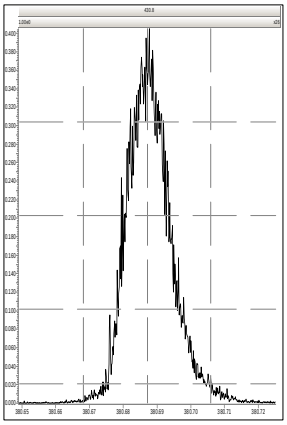

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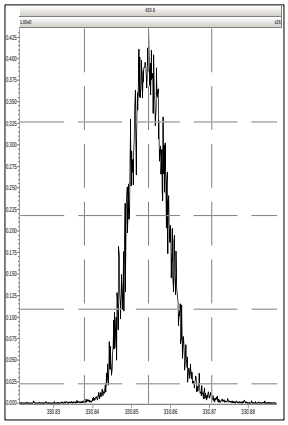

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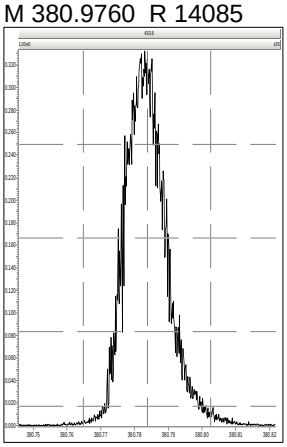

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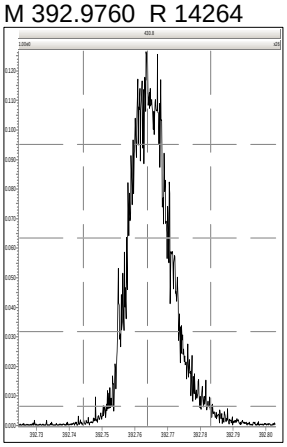

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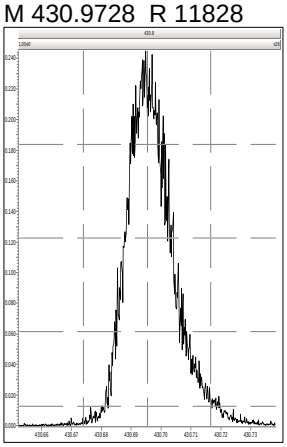

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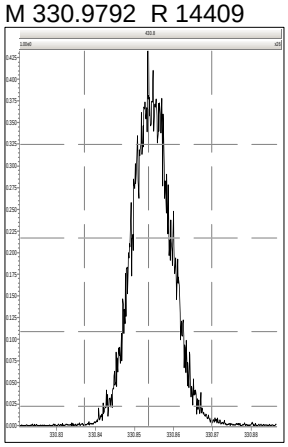

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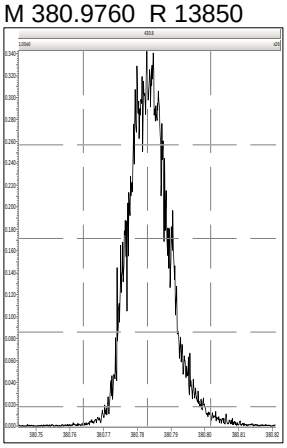

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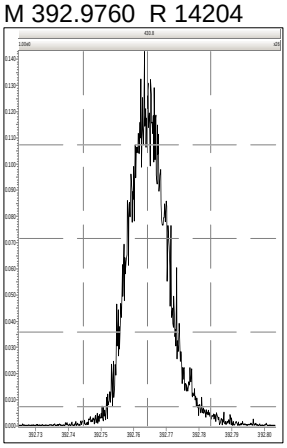

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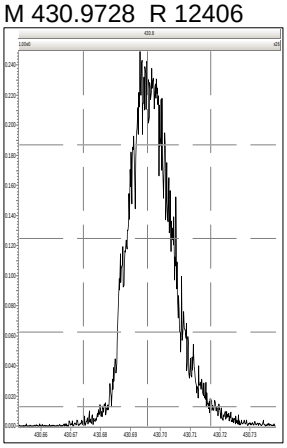

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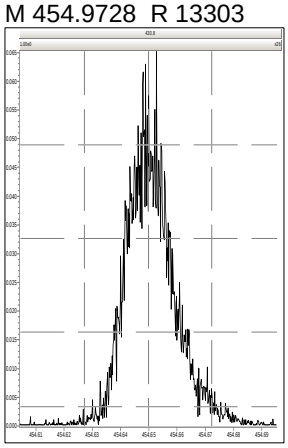

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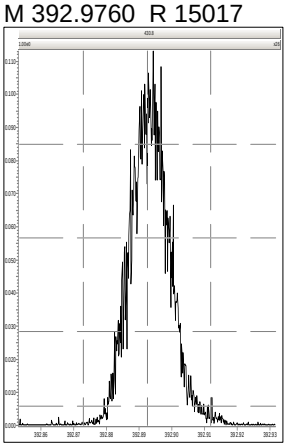
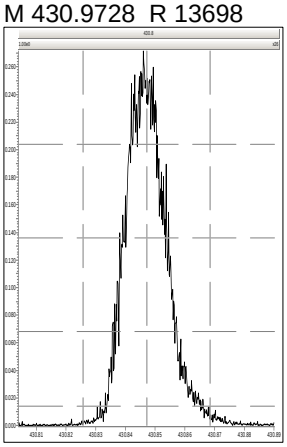
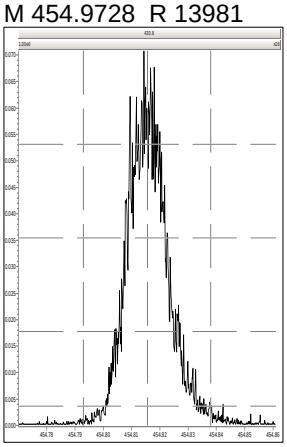


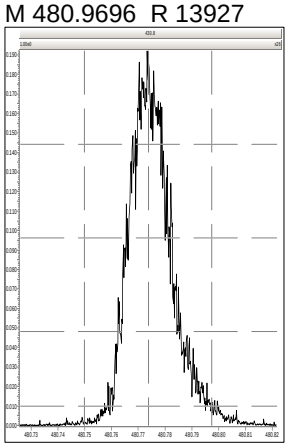
M 430.9728 R 13698



M 454.9728 R 13981

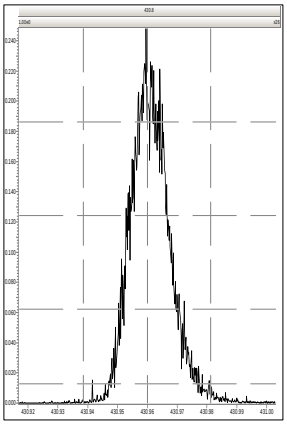


M 480.9696 R 13927

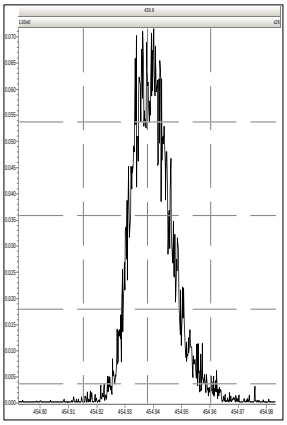


Printed: Tuesday, April 25, 2023 07:44:50 Pacific Daylight Time

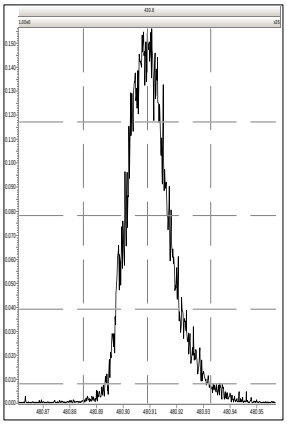
M 430.9728 R 14408



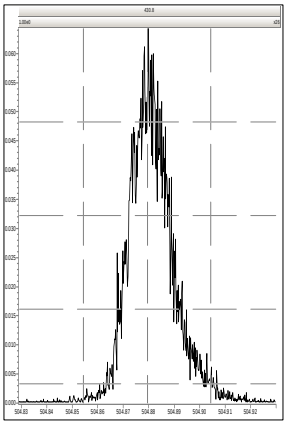
M 454.9728 R 15068



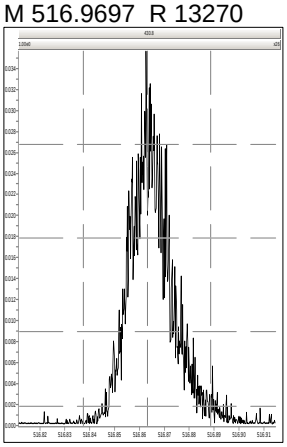
M 480.9696 R 13023

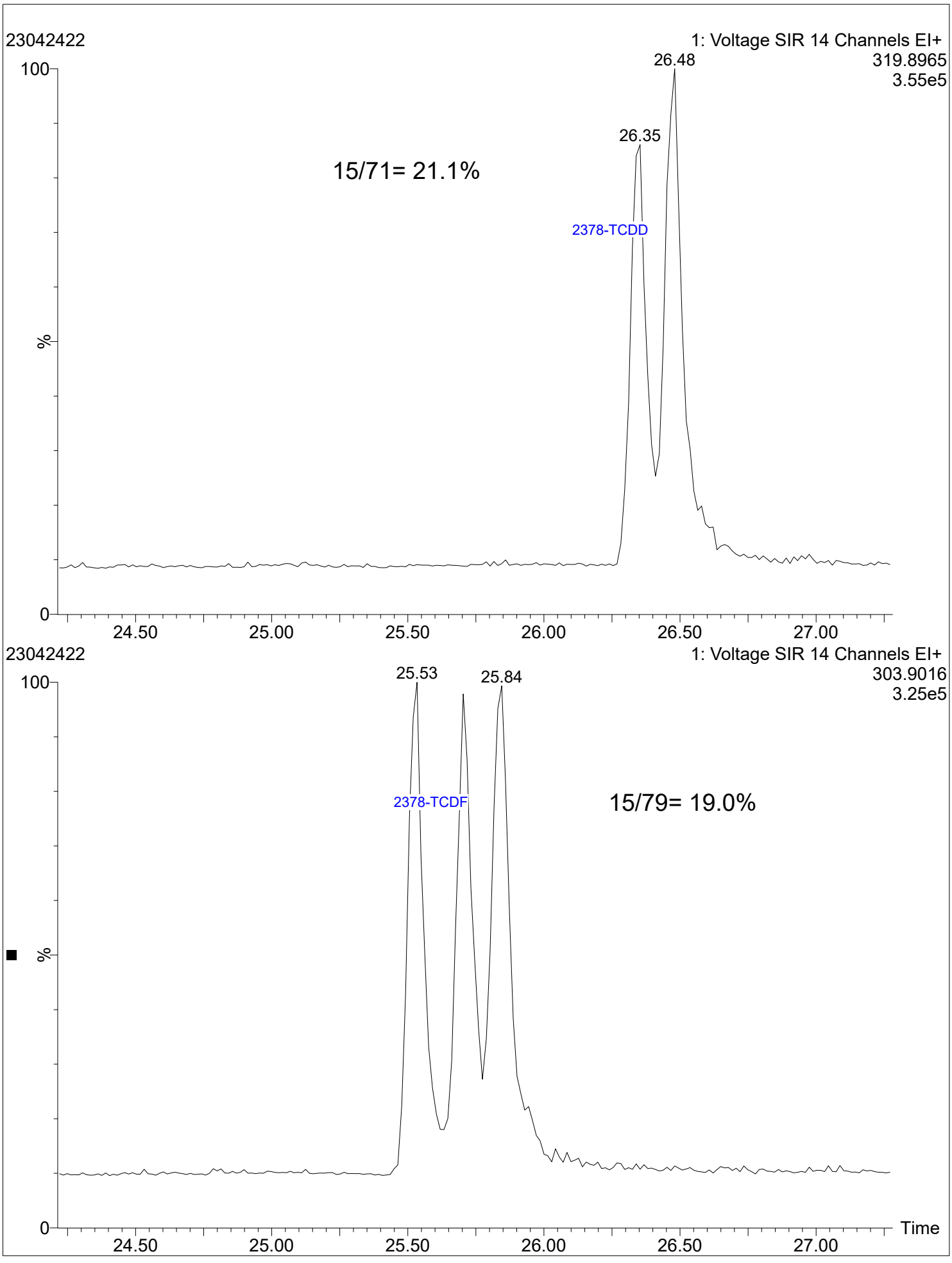


M 504.9696 R 12891



M 516.9697 R 13270




23042422
1: Voltage SIR 14 Channels EI+
319.8965
3.55e5
26.48
26.35
15/71= 21.1%
2378-TCDD
100
%
0
24.50
25.00
25.50
26.00
26.50
27.00
23042422
1: Voltage SIR 14 Channels EI+
303.9016
3.25e5
25.53
25.84
2378-TCDF
15/79= 19.0%
100
%
0
Time
24.50
25.00
25.50
26.00
26.50
27.00

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 1613B

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Instrument ID:	AUTOSPEC01	Calibration:	GC00015
Lab File ID:	23042432	Calibration Date:	03/03/2023
Sequence:	SLD0330	Injection Date:	04/25/23
Lab Sample ID:	SLD0330-CCV3	Injection Time:	15:57
Sequence Name:	CS3H4		

		CONC. (ng/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT	
2,3,7,8-TCDF	A	10.000	9.91	0.7015272	0.6950099		-0.9	+/-16	
2,3,7,8-TCDD	A	10.000	9.32	1.1486620	1.0705120		-6.8	+/-22	
1,2,3,7,8-PeCDF	A	50.000	59.5	0.6792300	0.8082688		19.0	+/-18	
2,3,4,7,8-PeCDF	A	50.000	58.4	0.7861704	0.9187243		16.9	+/-18	
1,2,3,7,8-PeCDD	A	50.000	63.8	1.0218450	1.3048270		27.7	+/-22	
1,2,3,4,7,8-HxCDF	A	50.000	47.3	1.1660380	1.1020340		-5.5	+/-10	
1,2,3,6,7,8-HxCDF	A	50.000	50.5	1.0907410	1.1013280		1.0	+/-12	
2,3,4,6,7,8-HxCDF	A	50.000	49.4	1.1396990	1.1250930		-1.3	+/-12	
1,2,3,7,8,9-HxCDF	A	50.000	48.1	1.1370930	1.0930290		-3.9	+/-10	
1,2,3,4,7,8-HxCDD	A	50.000	51.3	0.9955689	1.0212500		2.6	+/-22	
1,2,3,6,7,8-HxCDD	A	50.000	51.6	1.0009380	1.0319940		3.1	+/-22	
1,2,3,7,8,9-HxCDD	A	50.000	57.6	0.9071139	1.0445200		15.1	+/-18	
1,2,3,4,6,7,8-HpCDF	A	50.000	46.8	1.0029930	0.9393190		-6.3	+/-10	
1,2,3,4,7,8,9-HpCDF	A	50.000	47.2	0.9531152	0.8992606		-5.7	+/-14	
1,2,3,4,6,7,8-HpCDD	A	50.000	52.6	1.0390130	1.0923470		5.1	+/-14	
OCDF	A	100.00	89.2	0.7778078	0.6939731		-10.8	+/-37	
OCDD	A	100.00	100	0.9199537	0.9199764		0.003	+/-21	
13C12-2,3,7,8-TCDF	A	100.00	89.8	1.6201960	1.4543682		-10.2	+/-29	
13C12-2,3,7,8-TCDD	A	100.00	100	1.1524090	1.1525714		0.01	+/-18	
13C12-1,2,3,7,8-PeCDF	A	100.00	110	1.2404520	1.3609447		9.7	+/-24	
13C12-2,3,4,7,8-PeCDF	A	100.00	115	1.1177860	1.2871132		15.1	+/-23	
13C12-1,2,3,7,8-PeCDD	A	100.00	80.2	0.8288129	0.6646713		-19.8	+/-38	
13C12-1,2,3,4,7,8-HxCDF	A	100.00	95.5	1.1683050	1.1155204		-4.5	+/-24	
13C12-1,2,3,6,7,8-HxCDF	A	100.00	83.0	1.3864660	1.1504893		-17.0	+/-30	
13C12-2,3,4,6,7,8-HxCDF	A	100.00	95.6	1.1292560	1.0790172		-4.4	+/-27	
13C12-1,2,3,7,8,9-HxCDF	A	100.00	95.4	0.9317541	0.8885925		-4.6	+/-26	
13C12-1,2,3,4,7,8-HxCDD	A	100.00	93.0	0.9950393	0.9249542		-7.0	+/-15	
13C12-1,2,3,6,7,8-HxCDD	A	100.00	81.4	1.1566890	0.9419700		-18.6	+/-15	*
13C12-1,2,3,4,6,7,8-HpCDF	A	100.00	120	0.8952017	1.0727353		19.8	+/-22	
13C12-1,2,3,4,7,8,9-HpCDF	A	100.00	111	0.7697516	0.8551528		11.1	+/-23	
13C12-1,2,3,4,6,7,8-HpCDD	A	100.00	101	0.8401226	0.8479809		0.9	+/-28	
13C12-OCDD	A	200.00	215	0.7674714	0.8241873		7.4	+/-52	
37Cl4-2,3,7,8-TCDD	A	10.000	8.73	1.2878040	1.1240730		-12.7		

* Values outside of QC limits

Dataset: T:\Autospec\Processed Data Batch\230424D3.qld
Last Altered: Wednesday, April 26, 2023 10:40:47 Pacific Daylight Time
Printed: Wednesday, April 26, 2023 10:56:55 Pacific Daylight Time

Method: T:\Autospec\Methods\Dioxin230424.mdb 25 Apr 2023 07:59:40
Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 11:57:27

ID: CS3H4, Name: 23042432, Date: 25-Apr-2023, Time: 15:57:20, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
2378-TCDF	25.704	1.001	4.804e4	6.329e4	0.702	0.759	0.770	1237	1459	7.03e5	9.74e5	568.1	667.7	NO	bb	bb	9.907
12378-PeCDF	29.855	1.000	3.692e5	2.366e5	0.679	1.560	1.550	4672	3864	5.71e6	3.64e6	1222.3	941.5	NO	bb	bb	59.499
23478-PeCDF	31.204	1.001	3.954e5	2.558e5	0.786	1.546	1.550	4672	3864	6.07e6	3.92e6	1299.1	1014.9	NO	bb	bb	58.430
123478-HxCDF	34.824	1.001	3.594e5	2.892e5	1.166	1.243	1.240	1949	2384	5.65e6	4.49e6	2899.3	1882.9	NO	bd	bd	47.256
234678-HxCDF	35.827	1.001	3.539e5	2.867e5	1.140	1.234	1.240	1949	2384	5.53e6	4.39e6	2835.2	1839.8	NO	bb	bb	49.359
123678-HxCDF	34.958	1.000	3.686e5	2.999e5	1.091	1.229	1.240	1949	2384	5.78e6	4.62e6	2966.7	1938.8	NO	db	db	50.485
123789-HxCDF	36.863	1.001	2.812e5	2.313e5	1.137	1.216	1.240	1949	2384	4.27e6	3.43e6	2189.5	1437.6	NO	bb	bd	48.062
1234678-HpCDF	38.690	1.000	2.679e5	2.637e5	1.003	1.016	1.050	1981	1960	4.58e6	4.43e6	2309.9	2262.0	NO	bb	bb	46.826
1234789-HpCDF	40.930	1.000	2.087e5	1.971e5	0.953	1.059	1.050	1981	1960	3.06e6	2.93e6	1542.8	1493.3	NO	bb	bb	47.175
OCDF	45.134	1.006	2.889e5	3.146e5	0.778	0.918	0.890	1001	1975	3.52e6	3.69e6	3515.7	1869.7	NO	bb	bb	89.222
2378-TCDD	26.353	1.001	6.011e4	7.578e4	1.149	0.793	0.770	1378	839	8.81e5	1.11e6	639.5	1321.0	NO	bd	bd	9.320
12378-PeCDD	31.448	1.001	2.907e5	1.868e5	1.022	1.556	1.550	1718	1304	4.40e6	2.88e6	2558.6	2206.3	NO	bb	bb	63.847
123478-HxCDD	35.938	1.000	2.817e5	2.167e5	0.996	1.300	1.240	1549	1628	4.62e6	3.61e6	2979.0	2220.5	NO	bd	bd	51.290
123678-HxCDD	36.061	1.001	2.778e5	2.352e5	1.001	1.181	1.240	1549	1628	4.37e6	3.65e6	2818.8	2242.3	NO	db	db	51.551
123789-HxCDD	36.440	1.011	2.828e5	2.317e5	0.907	1.221	1.240	1549	1628	4.55e6	3.69e6	2938.6	2264.0	NO	bb	bb	57.574
1234678-HpCDD	40.183	1.000	2.487e5	2.400e5	1.039	1.036	1.050	2177	1769	3.79e6	3.65e6	1741.8	2064.3	NO	bb	bb	52.567
OCDD	44.896	1.000	3.707e5	4.294e5	0.920	0.863	0.890	1430	1850	4.56e6	5.31e6	3187.3	2869.3	NO	bb	bb	100.002
13C-2378-TCDF	25.689	1.007	6.886e5	9.132e5	1.620	0.754	0.770	1562	1335	1.02e7	1.37e7	6523.4	10248.9	NO	bb	bb	89.765
13C-12378-PeCDF	29.844	1.169	9.106e5	5.882e5	1.240	1.548	1.550	3094	2143	1.37e7	8.85e6	4441.2	4129.1	NO	bb	bb	109.714
13C-23478-PeCDF	31.181	1.222	8.591e5	5.584e5	1.118	1.538	1.550	3094	2143	1.30e7	8.45e6	4203.2	3943.5	NO	bb	bb	115.149
13C-123478-HxCDF	34.802	0.955	4.011e5	7.761e5	1.168	0.517	0.510	2168	2032	6.31e6	1.22e7	2912.7	6017.0	NO	bd	bd	95.482
13C-123678-HxCDF	34.947	0.959	4.082e5	8.058e5	1.386	0.507	0.510	2168	2032	6.38e6	1.23e7	2940.7	6048.6	NO	db	db	82.980
13C-234678-HxCDF	35.805	0.983	3.889e5	7.497e5	1.129	0.519	0.510	2168	2032	6.06e6	1.18e7	2797.0	5800.6	NO	bb	bb	95.551
13C-123789-HxCDF	36.841	1.011	3.199e5	6.178e5	0.932	0.518	0.510	2168	2032	5.00e6	9.77e6	2307.9	4808.5	NO	bb	bb	95.368
13C-1234678-HpCDF	38.679	1.062	3.538e5	7.782e5	0.895	0.455	0.440	1790	2499	5.75e6	1.27e7	3214.3	5094.1	NO	bb	bb	119.832
13C-1234789-HpCDF	40.918	1.123	2.765e5	6.259e5	0.770	0.442	0.440	1790	2499	3.71e6	8.38e6	2073.5	3351.2	NO	bd	bd	111.095
13C-1234-TCDD	25.520	0.000	4.894e5	6.119e5	1.000	0.800	0.770	2234	1122	7.38e6	9.24e6	3302.6	8240.0	NO	bb	bb	100.000
13C-2378-TCDD	26.325	1.032	5.598e5	7.096e5	1.152	0.789	0.770	2234	1122	8.51e6	1.09e7	3811.2	9714.5	NO	bb	bb	100.014
13C-12378-PeCDD	31.426	1.231	4.629e5	2.691e5	0.829	1.720	1.550	1174	2023	6.58e6	3.80e6	5601.4	1878.4	NO	bd	bb	80.196
13C-123478-HxCDD	35.927	0.986	5.531e5	4.230e5	0.995	1.308	1.240	2519	2480	9.13e6	6.76e6	3626.0	2725.5	NO	bd	bd	92.957
13C-123678-HxCDD	36.039	0.989	5.514e5	4.427e5	1.157	1.246	1.240	2519	2480	8.70e6	7.08e6	3454.0	2856.4	NO	db	db	81.437
13C-1234678-HpCDD	40.172	1.103	4.638e5	4.310e5	0.840	1.076	1.050	1815	1540	7.00e6	6.46e6	3858.5	4194.7	NO	bb	bb	100.935
13C-OCDD	44.878	1.232	8.269e5	9.125e5	0.767	0.906	0.890	2135	1223	9.65e6	1.07e7	4519.8	8747.5	NO	bb	bb	214.780
13C-123789-HxCDD	36.429	0.000	5.919e5	4.634e5	1.000	1.277	1.240	2519	2480	9.77e6	7.43e6	3876.9	2996.9	NO	bb	bb	100.000
37CL-2378-TCDD	26.339	1.032	1.238e5		1.288			2172		1.81e6		833.4			bb		8.729

Dataset: T:\Autospec\Processed Data Batch\230424D3.qld
Last Altered: Wednesday, April 26, 2023 10:40:47 Pacific Daylight Time
Printed: Wednesday, April 26, 2023 10:56:55 Pacific Daylight Time

ID: CS3H4, Name: 23042432, Date: 25-Apr-2023, Time: 15:57:20, Conditions: AUTOSPEC01, User: pk

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	S/N 2	EMPC	Int.1	Int.2	pg
1368-TCDF	22.201	0.864	5.679e4	7.226e4	0.802	0.786	0.770	1237	1459	9.22e5	1.13e6	744.9	774.9	NO	bb	bb	10.052
1289-TCDF	27.201	1.059	4.447e4	5.787e4	0.678	0.768	0.770	1237	1459	6.79e5	8.64e5	548.5	592.2	NO	bb	bb	9.424
13468-PECDF	27.059	0.907	5.134e5	3.388e5	1.246	1.515	1.550	693	1219	7.78e6	5.10e6	11223.7	4184.2	NO	bb	bb	45.612
12389-PECDF	32.239	1.080	3.650e5	2.317e5	0.496	1.575	1.550	4672	3864	5.39e6	3.42e6	1154.5	884.5	NO	bb	bb	80.196
123468-HXCDF	33.153	0.953	3.686e5	2.896e5	1.169	1.273	1.240	1949	2384	5.52e6	4.31e6	2831.2	1809.3	NO	bb	bb	47.830
1368-TCDD	23.472	0.892	5.611e4	7.158e4	1.015	0.784	0.770	1378	839	8.74e5	1.09e6	634.3	1297.8	NO	bb	bb	9.906
1289-TCDD	26.947	1.024	5.080e4	6.562e4	0.909	0.774	0.770	1378	839	7.53e5	9.58e5	546.9	1141.6	NO	bb	bb	10.093
12479-PECDD	28.730	0.914	4.905e5	3.133e5	2.301	1.565	1.550	1718	1304	4.71e6	3.05e6	2741.1	2339.9	NO	bb	bb	47.711
12389-PECDD	31.850	1.013	3.361e5	2.203e5	1.184	1.526	1.550	1718	1304	5.21e6	3.37e6	3034.1	2584.7	NO	bb	bb	64.212
124679-HXCDD	33.933	0.945	2.933e5	2.413e5	1.115	1.216	1.240	1549	1628	4.61e6	3.83e6	2975.5	2350.4	NO	bb	bb	49.104
1234679-HPCDD	39.147	0.975	2.786e5	2.706e5	1.137	1.030	1.050	2177	1769	4.42e6	4.22e6	2030.1	2385.8	NO	bb	bb	53.996
Total-tetrafurans			1.509e5		0.727			1237		2.33e6							29.681
Total-penta1			5.134e5					693		7.78e6							45.612
Total-pentafurans			1.191e6		0.654			4672		1.81e7							208.597
Total-hexafurans			1.732e6		1.141			1949		2.67e7							242.992
Total-heptafurans			4.779e5		0.978			1981		7.65e6							94.251
Total-Furans			4.353e6		0.922			1237		6.62e7							710.354
Total-tetradioxins			2.864e5		1.024			1378		3.87e6							50.081
Total-pentadioxins			1.119e6		1.502			1718		1.43e7							176.073
Total-hexadioxins			1.136e6		1.005			1549		1.82e7							209.634
Total-heptadioxins			5.273e5		1.088			2177		8.21e6							106.563
Total-Dioxins			3.440e6		1.130			1378		4.91e7							642.352
Total-TEQ			7.793e6					1378		1.15e8							1352.706
FUNCTION1 PFK			4.990e7					395454		3.57e8							
FUNCTION2 PFK			1.428e5					232168		4.47e6							0.000
FUNCTION3 PFK			4.218e7					308610		2.56e7							0.000
FUNCTION4 PFK			1.045e5					257096		4.60e6							
FUNCTION5 PFK			0.000e0					187549		0.00e0							
FUNCTION1 HXCD...			1.126e3					722		1.65e4							0.000
FUNCTION1 HPCD...																	
FUNCTION2 HPCD...			1.843e3					1786		4.09e4							0.000
FUNCTION3 OCDPE			1.074e3					715		1.66e4							0.000
FUNCTION4 NCDPE			3.398e2					746		7.72e3							0.000
FUNCTION5 DCDPE			2.411e2					760		5.58e3							0.000

Method: T:\Autospec\Methods\Dioxin230424.mdb 25 Apr 2023 07:59:40
Calibration: T:\Autospec\Curves\230303ICIH.cdb 06 Mar 2023 11:57:27

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TF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.20	4.447e4	5.787e4	0.678	0.77	0.77	548.5	YES	NO	bb	bb	9.424
2	Total-tetrafurans	27.07	1.094e3	1.272e3	0.727	0.86	0.77	16.1	YES	NO	bb	bb	0.203
3	2378-TCDF	25.70	4.804e4	6.329e4	0.702	0.76	0.77	568.1	YES	NO	bb	bb	9.907
4	Total-tetrafurans	24.80	4.744e2	6.309e2	0.727	0.75	0.77	4.4	YES	NO	bb	bb	0.095
5	1368-TCDF	22.20	5.679e4	7.226e4	0.802	0.79	0.77	744.9	YES	NO	bb	bb	10.052

PP

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	13468-PECDF	27.06	5.134e5	3.388e5	1.246	1.52	1.55	11223.7	YES	NO	bb	bb	45.612

PF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12389-PECDF	32.24	3.650e5	2.317e5	0.496	1.58	1.55	1154.5	YES	NO	bb	bb	80.196
2	23478-PeCDF	31.20	3.954e5	2.558e5	0.786	1.55	1.55	1299.1	YES	NO	bb	bb	58.430
3	12378-PeCDF	29.86	3.692e5	2.366e5	0.679	1.56	1.55	1222.3	YES	NO	bb	bb	59.499
4	Total-pentafurans	28.71	6.113e4	3.872e4	0.654	1.58	1.55	205.4	YES	NO	bb	bb	10.472

HF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123789-HxCDF	36.86	2.812e5	2.313e5	1.137	1.22	1.24	2189.5	YES	NO	bb	bd	48.062
2	234678-HxCDF	35.83	3.539e5	2.867e5	1.140	1.23	1.24	2835.2	YES	NO	bb	bb	49.359
3	123678-HxCDF	34.96	3.686e5	2.999e5	1.091	1.23	1.24	2966.7	YES	NO	db	db	50.485
4	123478-HxCDF	34.82	3.594e5	2.892e5	1.166	1.24	1.24	2899.3	YES	NO	bd	bd	47.256
5	123468-HXCDF	33.15	3.686e5	2.896e5	1.169	1.27	1.24	2831.2	YES	NO	bb	bb	47.830

HPF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDF	38.69	2.679e5	2.637e5	1.003	1.02	1.05	2309.9	YES	NO	bb	bb	46.826
2	1234789-HpCDF	40.93	2.087e5	1.971e5	0.953	1.06	1.05	1542.8	YES	NO	bb	bb	47.175
3	Total-heptafurans	39.36	1.280e3	1.214e3	0.978	1.05	1.05	10.9	YES	NO	bb	bb	0.251

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Furans,TF,PP,PF,HF,HPF,OF

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.20	4.447e4	5.787e4	0.678	0.77	0.77	548.5	YES	NO	bb	bb	9.424
2	Total-tetrafurans	27.07	1.094e3	1.272e3	0.727	0.86	0.77	16.1	YES	NO	bb	bb	0.203
3	2378-TCDF	25.70	4.804e4	6.329e4	0.702	0.76	0.77	568.1	YES	NO	bb	bb	9.907
4	Total-tetrafurans	24.80	4.744e2	6.309e2	0.727	0.75	0.77	4.4	YES	NO	bb	bb	0.095
5	1368-TCDF	22.20	5.679e4	7.226e4	0.802	0.79	0.77	744.9	YES	NO	bb	bb	10.052
6	12389-PECDF	32.24	3.650e5	2.317e5	0.496	1.58	1.55	1154.5	YES	NO	bb	bb	80.196
7	23478-PeCDF	31.20	3.954e5	2.558e5	0.786	1.55	1.55	1299.1	YES	NO	bb	bb	58.430
8	12378-PeCDF	29.86	3.692e5	2.366e5	0.679	1.56	1.55	1222.3	YES	NO	bb	bb	59.499
9	Total-pentafurans	28.71	6.113e4	3.872e4	0.654	1.58	1.55	205.4	YES	NO	bb	bb	10.472
10	123789-HxCDF	36.86	2.812e5	2.313e5	1.137	1.22	1.24	2189.5	YES	NO	bb	bd	48.062
11	234678-HxCDF	35.83	3.539e5	2.867e5	1.140	1.23	1.24	2835.2	YES	NO	bb	bb	49.359
12	123678-HxCDF	34.96	3.686e5	2.999e5	1.091	1.23	1.24	2966.7	YES	NO	db	db	50.485
13	123478-HxCDF	34.82	3.594e5	2.892e5	1.166	1.24	1.24	2899.3	YES	NO	bd	bd	47.256
14	123468-HXCDF	33.15	3.686e5	2.896e5	1.169	1.27	1.24	2831.2	YES	NO	bb	bb	47.830
15	1234678-HpCDF	38.69	2.679e5	2.637e5	1.003	1.02	1.05	2309.9	YES	NO	bb	bb	46.826
16	1234789-HpCDF	40.93	2.087e5	1.971e5	0.953	1.06	1.05	1542.8	YES	NO	bb	bb	47.175
17	Total-heptafurans	39.36	1.280e3	1.214e3	0.978	1.05	1.05	10.9	YES	NO	bb	bb	0.251
18	OCDF	45.13	2.889e5	3.146e5	0.778	0.92	0.89	3515.7	YES	NO	bb	bb	89.222
19	13468-PECDF	27.06	5.134e5	3.388e5	1.246	1.52	1.55	11223.7	YES	NO	bb	bb	45.612

TD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDD	26.95	5.080e4	6.562e4	0.909	0.77	0.77	546.9	YES	NO	bb	bb	10.093
2	2378-TCDD	26.35	6.011e4	7.578e4	1.149	0.79	0.77	639.5	YES	NO	bd	bd	9.320
3	Total-tetradioxins	26.03	8.787e4	1.115e5	1.024	0.79	0.77	644.0	YES	NO	bb	bb	15.331
4	Total-tetradioxins	25.53	2.809e4	3.486e4	1.024	0.81	0.77	320.8	YES	NO	bd	bb	4.842
5	Total-tetradioxins	24.97	8.353e2	9.441e2	1.024	0.88	0.77	9.5	YES	NO	bb	bb	0.137
6	Total-tetradioxins	24.67	2.584e3	3.303e3	1.024	0.78	0.77	17.0	YES	NO	bb	bb	0.453
7	1368-TCDD	23.47	5.611e4	7.158e4	1.015	0.78	0.77	634.3	YES	NO	bb	bb	9.906

Dataset: T:\Autospec\Processed Data Batch\230424D3.qld
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PD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	12389-PECDD	31.85	3.361e5	2.203e5	1.184	1.53	1.55	3034.1	YES	NO	bb	bb	64.212
2	12378-PeCDD	31.45	2.907e5	1.868e5	1.022	1.56	1.55	2558.6	YES	NO	bb	bb	63.847
3	Total-pentadioxins	30.79	1.267e3	7.723e2	1.502	1.64	1.55	9.8	YES	NO	bb	bb	0.185
4	Total-pentadioxins	29.87	8.270e2	4.704e2	1.502	1.76	1.55	7.6	YES	NO	bb	bb	0.118
5	12479-PECDD	28.73	4.905e5	3.133e5	2.301	1.57	1.55	2741.1	YES	NO	bb	bb	47.711

HD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	123678-HxCDD	36.06	2.778e5	2.352e5	1.001	1.18	1.24	2818.8	YES	NO	db	db	51.551
2	123478-HxCDD	35.94	2.817e5	2.167e5	0.996	1.30	1.24	2979.0	YES	NO	bd	bd	51.290
3	Total-hexadioxins	34.70	5.861e2	5.492e2	1.005	1.07	1.24	6.6	YES	NO	bb	bb	0.115
4	124679-HXCDD	33.93	2.933e5	2.413e5	1.115	1.22	1.24	2975.5	YES	NO	bb	bb	49.104
5	123789-HxCDD	36.44	2.828e5	2.317e5	0.907	1.22	1.24	2938.6	YES	NO	bb	bb	57.574

HPD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1234678-HpCDD	40.18	2.487e5	2.400e5	1.039	1.04	1.05	1741.8	YES	NO	bb	bb	52.567
2	1234679-HPCDD	39.15	2.786e5	2.706e5	1.137	1.03	1.05	2030.1	YES	NO	bb	bb	53.996

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Dioxins,TD,PD,HD,HPD,OD

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDD	26.95	5.080e4	6.562e4	0.909	0.77	0.77	546.9	YES	NO	bb	bb	10.093
2	2378-TCDD	26.35	6.011e4	7.578e4	1.149	0.79	0.77	639.5	YES	NO	bd	bd	9.320
3	Total-tetradioxins	26.03	8.787e4	1.115e5	1.024	0.79	0.77	644.0	YES	NO	bb	bb	15.331
4	Total-tetradioxins	25.53	2.809e4	3.486e4	1.024	0.81	0.77	320.8	YES	NO	bd	bb	4.842
5	Total-tetradioxins	24.97	8.353e2	9.441e2	1.024	0.88	0.77	9.5	YES	NO	bb	bb	0.137
6	Total-tetradioxins	24.67	2.584e3	3.303e3	1.024	0.78	0.77	17.0	YES	NO	bb	bb	0.453
7	1368-TCDD	23.47	5.611e4	7.158e4	1.015	0.78	0.77	634.3	YES	NO	bb	bb	9.906
8	12389-PECDD	31.85	3.361e5	2.203e5	1.184	1.53	1.55	3034.1	YES	NO	bb	bb	64.212
9	12378-PeCDD	31.45	2.907e5	1.868e5	1.022	1.56	1.55	2558.6	YES	NO	bb	bb	63.847
10	Total-pentadioxins	30.79	1.267e3	7.723e2	1.502	1.64	1.55	9.8	YES	NO	bb	bb	0.185
11	Total-pentadioxins	29.87	8.270e2	4.704e2	1.502	1.76	1.55	7.6	YES	NO	bb	bb	0.118
12	12479-PECDD	28.73	4.905e5	3.133e5	2.301	1.57	1.55	2741.1	YES	NO	bb	bb	47.711
13	123678-HxCDD	36.06	2.778e5	2.352e5	1.001	1.18	1.24	2818.8	YES	NO	db	db	51.551
14	123478-HxCDD	35.94	2.817e5	2.167e5	0.996	1.30	1.24	2979.0	YES	NO	bd	bd	51.290
15	Total-hexadioxins	34.70	5.861e2	5.492e2	1.005	1.07	1.24	6.6	YES	NO	bb	bb	0.115
16	124679-HXCDD	33.93	2.933e5	2.413e5	1.115	1.22	1.24	2975.5	YES	NO	bb	bb	49.104
17	123789-HxCDD	36.44	2.828e5	2.317e5	0.907	1.22	1.24	2938.6	YES	NO	bb	bb	57.574
18	1234678-HpCDD	40.18	2.487e5	2.400e5	1.039	1.04	1.05	1741.8	YES	NO	bb	bb	52.567
19	1234679-HPCDD	39.15	2.786e5	2.706e5	1.137	1.03	1.05	2030.1	YES	NO	bb	bb	53.996
20	OCDD	44.90	3.707e5	4.294e5	0.920	0.86	0.89	3187.3	YES	NO	bb	bb	100.002

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TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	1289-TCDF	27.20	4.447e4	5.787e4	0.678	0.77	0.77	548.5	YES	NO	bb	bb	9.424
2	Total-tetrafurans	27.07	1.094e3	1.272e3	0.727	0.86	0.77	16.1	YES	NO	bb	bb	0.203
3	2378-TCDF	25.70	4.804e4	6.329e4	0.702	0.76	0.77	568.1	YES	NO	bb	bb	9.907
4	Total-tetrafurans	24.80	4.744e2	6.309e2	0.727	0.75	0.77	4.4	YES	NO	bb	bb	0.095
5	1368-TCDF	22.20	5.679e4	7.226e4	0.802	0.79	0.77	744.9	YES	NO	bb	bb	10.052
6	12389-PECDF	32.24	3.650e5	2.317e5	0.496	1.58	1.55	1154.5	YES	NO	bb	bb	80.196
7	23478-PeCDF	31.20	3.954e5	2.558e5	0.786	1.55	1.55	1299.1	YES	NO	bb	bb	58.430
8	12378-PeCDF	29.86	3.692e5	2.366e5	0.679	1.56	1.55	1222.3	YES	NO	bb	bb	59.499
9	Total-pentafurans	28.71	6.113e4	3.872e4	0.654	1.58	1.55	205.4	YES	NO	bb	bb	10.472
10	123789-HxCDF	36.86	2.812e5	2.313e5	1.137	1.22	1.24	2189.5	YES	NO	bb	bd	48.062
11	234678-HxCDF	35.83	3.539e5	2.867e5	1.140	1.23	1.24	2835.2	YES	NO	bb	bb	49.359
12	123678-HxCDF	34.96	3.686e5	2.999e5	1.091	1.23	1.24	2966.7	YES	NO	db	db	50.485
13	123478-HxCDF	34.82	3.594e5	2.892e5	1.166	1.24	1.24	2899.3	YES	NO	bd	bd	47.256
14	123468-HXCDF	33.15	3.686e5	2.896e5	1.169	1.27	1.24	2831.2	YES	NO	bb	bb	47.830
15	1234678-HpCDF	38.69	2.679e5	2.637e5	1.003	1.02	1.05	2309.9	YES	NO	bb	bb	46.826
16	1234789-HpCDF	40.93	2.087e5	1.971e5	0.953	1.06	1.05	1542.8	YES	NO	bb	bb	47.175
17	Total-heptafurans	39.36	1.280e3	1.214e3	0.978	1.05	1.05	10.9	YES	NO	bb	bb	0.251
18	OCDF	45.13	2.889e5	3.146e5	0.778	0.92	0.89	3515.7	YES	NO	bb	bb	89.222
19	13468-PECDF	27.06	5.134e5	3.388e5	1.246	1.52	1.55	11223.7	YES	NO	bb	bb	45.612
20	1289-TCDD	26.95	5.080e4	6.562e4	0.909	0.77	0.77	546.9	YES	NO	bb	bb	10.093
21	2378-TCDD	26.35	6.011e4	7.578e4	1.149	0.79	0.77	639.5	YES	NO	bd	bd	9.320
22	Total-tetradioxins	26.03	8.787e4	1.115e5	1.024	0.79	0.77	644.0	YES	NO	bb	bb	15.331
23	Total-tetradioxins	25.53	2.809e4	3.486e4	1.024	0.81	0.77	320.8	YES	NO	bd	bb	4.842
24	Total-tetradioxins	24.97	8.353e2	9.441e2	1.024	0.88	0.77	9.5	YES	NO	bb	bb	0.137
25	Total-tetradioxins	24.67	2.584e3	3.303e3	1.024	0.78	0.77	17.0	YES	NO	bb	bb	0.453
26	1368-TCDD	23.47	5.611e4	7.158e4	1.015	0.78	0.77	634.3	YES	NO	bb	bb	9.906
27	12389-PECDD	31.85	3.361e5	2.203e5	1.184	1.53	1.55	3034.1	YES	NO	bb	bb	64.212
28	12378-PeCDD	31.45	2.907e5	1.868e5	1.022	1.56	1.55	2558.6	YES	NO	bb	bb	63.847
29	Total-pentadioxins	30.79	1.267e3	7.723e2	1.502	1.64	1.55	9.8	YES	NO	bb	bb	0.185
30	Total-pentadioxins	29.87	8.270e2	4.704e2	1.502	1.76	1.55	7.6	YES	NO	bb	bb	0.118
31	12479-PECDD	28.73	4.905e5	3.133e5	2.301	1.57	1.55	2741.1	YES	NO	bb	bb	47.711
32	123678-HxCDD	36.06	2.778e5	2.352e5	1.001	1.18	1.24	2818.8	YES	NO	db	db	51.551
33	123478-HxCDD	35.94	2.817e5	2.167e5	0.996	1.30	1.24	2979.0	YES	NO	bd	bd	51.290
34	Total-hexadioxins	34.70	5.861e2	5.492e2	1.005	1.07	1.24	6.6	YES	NO	bb	bb	0.115
35	124679-HXCDD	33.93	2.933e5	2.413e5	1.115	1.22	1.24	2975.5	YES	NO	bb	bb	49.104
36	123789-HxCDD	36.44	2.828e5	2.317e5	0.907	1.22	1.24	2938.6	YES	NO	bb	bb	57.574
37	1234678-HpCDD	40.18	2.487e5	2.400e5	1.039	1.04	1.05	1741.8	YES	NO	bb	bb	52.567

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TotalTEQ,Furans,Dioxins

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	1234679-HPCDD	39.15	2.786e5	2.706e5	1.137	1.03	1.05	2030.1	YES	NO	bb	bb	53.996
39	OCDD	44.90	3.707e5	4.294e5	0.920	0.86	0.89	3187.3	YES	NO	bb	bb	100.002

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PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 PFK	21.59	2.119e6					76.9	YES		dd		
2	FUNCTION1 PFK	21.32	9.214e6					87.0	YES		dd		
3	FUNCTION1 PFK	21.24	1.941e6					88.3	YES		dd		
4	FUNCTION1 PFK	21.16	2.993e6					90.9	YES		dd		
5	FUNCTION1 PFK	21.11	3.073e6					92.8	YES		bd		
6	FUNCTION1 PFK	24.55	3.557e4					1.3	NO		bd		
7	FUNCTION1 PFK	24.38	1.635e3					0.3	NO		bb		
8	FUNCTION1 PFK	24.04	5.033e3					0.9	NO		bb		
9	FUNCTION1 PFK	23.94	8.212e3					0.9	NO		bb		
10	FUNCTION1 PFK	23.85	4.869e3					0.5	NO		bb		
11	FUNCTION1 PFK	23.77	1.921e4					1.0	NO		bb		
12	FUNCTION1 PFK	23.50	2.131e5					7.1	YES		db		
13	FUNCTION1 PFK	23.49	2.757e5					7.1	YES		dd		
14	FUNCTION1 PFK	23.29	2.571e6					15.4	YES		dd		
15	FUNCTION1 PFK	22.89	3.221e6					29.2	YES		dd		
16	FUNCTION1 PFK	22.34	7.581e6					49.7	YES		dd		
17	FUNCTION1 PFK	22.24	1.478e6					53.8	YES		dd		
18	FUNCTION1 PFK	22.06	5.128e6					59.5	YES		dd		
19	FUNCTION1 PFK	21.82	5.079e6					68.4	YES		dd		
20	FUNCTION1 PFK	21.73	1.950e6					71.4	YES		dd		
21	FUNCTION1 PFK	21.65	2.444e6					74.3	YES		dd		
22	FUNCTION1 PFK	26.49	6.108e4					1.6	NO		dd		
23	FUNCTION1 PFK	26.44	1.553e4					1.4	NO		bd		
24	FUNCTION1 PFK	26.23	2.337e4					1.3	NO		bb		
25	FUNCTION1 PFK	26.14	2.506e3					0.4	NO		bb		
26	FUNCTION1 PFK	26.08	1.110e4					1.0	NO		db		
27	FUNCTION1 PFK	26.04	1.252e4					0.8	NO		bd		
28	FUNCTION1 PFK	25.96	1.334e4					1.0	NO		bb		
29	FUNCTION1 PFK	25.83	3.622e4					1.9	NO		bb		
30	FUNCTION1 PFK	25.70	1.114e4					0.4	NO		db		
31	FUNCTION1 PFK	25.66	6.875e3					0.7	NO		bd		
32	FUNCTION1 PFK	25.56	5.111e4					2.0	NO		bb		
33	FUNCTION1 PFK	25.41	6.036e3					0.6	NO		bb		
34	FUNCTION1 PFK	25.31	2.057e3					0.4	NO		bb		
35	FUNCTION1 PFK	25.14	6.250e3					0.7	NO		bb		
36	FUNCTION1 PFK	24.73	7.489e3					0.7	NO		bb		
37	FUNCTION1 PFK	24.66	1.350e4					1.1	NO		db		

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PFK1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
38	FUNCTION1 PFK	27.89	4.255e4					2.0	NO		db		
39	FUNCTION1 PFK	27.84	7.142e3					0.8	NO		dd		
40	FUNCTION1 PFK	27.79	1.927e4					1.3	NO		bd		
41	FUNCTION1 PFK	27.71	6.402e4					2.7	NO		db		
42	FUNCTION1 PFK	27.60	1.930e4					1.0	NO		bd		
43	FUNCTION1 PFK	27.00	1.653e3					0.3	NO		bb		
44	FUNCTION1 PFK	26.76	8.933e4					1.5	NO		bb		
45	FUNCTION1 PFK	26.61	2.061e4					1.5	NO		db		

PFK2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 PFK	30.30	6.759e3					1.3	NO		bb		0.000
2	FUNCTION2 PFK	30.02	9.102e3					1.2	NO		bb		0.000
3	FUNCTION2 PFK	29.20	1.510e4					2.0	NO		bb		0.000
4	FUNCTION2 PFK	29.11	8.042e3					1.4	NO		bb		0.000
5	FUNCTION2 PFK	28.24	5.507e3					0.8	NO		bb		0.000
6	FUNCTION2 PFK	28.18	6.984e3					1.3	NO		bb		0.000
7	FUNCTION2 PFK	28.11	1.102e4					1.9	NO		bb		0.000
8	FUNCTION2 PFK	32.61	2.522e4					1.7	NO		bb		0.000
9	FUNCTION2 PFK	32.11	1.736e4					2.3	NO		db		0.000
10	FUNCTION2 PFK	32.06	1.376e4					1.6	NO		bd		0.000
11	FUNCTION2 PFK	30.71	1.283e4					1.5	NO		bb		0.000
12	FUNCTION2 PFK	30.66	4.148e3					1.0	NO		bb		0.000
13	FUNCTION2 PFK	30.36	6.997e3					1.3	NO		bb		0.000

PFK3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 PFK	37.13	4.774e6					23.8	YES		bb		0.000
2	FUNCTION3 PFK	35.97	4.709e6					8.3	YES		bb		0.000
3	FUNCTION3 PFK	33.79	3.270e7					50.7	YES		bb		0.000

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PFK4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 PFK	38.62	1.910e3					0.7	NO		bb		
2	FUNCTION4 PFK	38.43	2.813e3					0.7	NO		bb		
3	FUNCTION4 PFK	38.04	1.656e3					0.6	NO		bb		
4	FUNCTION4 PFK	38.00	3.293e3					1.1	NO		bb		
5	FUNCTION4 PFK	37.96	1.649e3					0.6	NO		bb		
6	FUNCTION4 PFK	42.67	5.857e3					0.7	NO		bb		
7	FUNCTION4 PFK	42.50	8.674e3					1.3	NO		bb		
8	FUNCTION4 PFK	42.29	6.239e3					1.0	NO		bb		
9	FUNCTION4 PFK	42.19	6.946e3					1.1	NO		bb		
10	FUNCTION4 PFK	41.87	1.701e4					1.7	NO		bb		
11	FUNCTION4 PFK	41.68	3.367e3					0.7	NO		bb		
12	FUNCTION4 PFK	41.24	6.385e3					1.0	NO		db		
13	FUNCTION4 PFK	41.20	6.806e3					1.2	NO		bd		
14	FUNCTION4 PFK	40.66	5.602e3					1.0	NO		bb		
15	FUNCTION4 PFK	40.03	2.687e3					0.9	NO		bb		
16	FUNCTION4 PFK	39.97	1.012e4					1.1	NO		bb		
17	FUNCTION4 PFK	39.47	8.488e3					1.2	NO		bb		
18	FUNCTION4 PFK	39.36	1.231e3					0.4	NO		bb		
19	FUNCTION4 PFK	38.85	3.796e3					0.8	NO		bb		

PFK5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

ETHERS1

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION1 HXCD...	27.92	8.044e1					2.0	NO		bb		0.000
2	FUNCTION1 HXCD...	27.06	2.793e2					4.3	YES		bb		0.000
3	FUNCTION1 HXCD...	25.72	9.661e1					2.6	NO		bb		0.000
4	FUNCTION1 HXCD...	25.38	7.250e1					1.7	NO		bb		0.000
5	FUNCTION1 HXCD...	22.24	8.399e1					1.9	NO		bb		0.000
6	FUNCTION1 HXCD...	21.96	9.625e1					2.8	NO		db		0.000
7	FUNCTION1 HXCD...	21.81	8.592e1					1.6	NO		bd		0.000
8	FUNCTION1 HXCD...	21.16	3.315e2					5.8	YES		bb		0.000

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ETHERS2

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1													

ETHERS3

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION2 HPCD...	31.84	1.549e2					2.7	NO		bb		0.000
2	FUNCTION2 HPCD...	31.56	7.391e1					1.4	NO		bb		0.000
3	FUNCTION2 HPCD...	31.06	7.348e1					1.6	NO		bb		0.000
4	FUNCTION2 HPCD...	30.72	8.770e1					1.3	NO		bb		0.000
5	FUNCTION2 HPCD...	29.98	1.181e2					1.4	NO		db		0.000
6	FUNCTION2 HPCD...	29.87	2.493e2					1.7	NO		bd		0.000
7	FUNCTION2 HPCD...	28.31	1.197e2					1.2	NO		bb		0.000
8	FUNCTION2 HPCD...	32.73	3.152e2					2.9	NO		db		0.000
9	FUNCTION2 HPCD...	32.65	1.083e2					1.5	NO		dd		0.000
10	FUNCTION2 HPCD...	32.61	1.424e2					2.7	NO		dd		0.000
11	FUNCTION2 HPCD...	32.51	2.204e2					2.2	NO		bd		0.000
12	FUNCTION2 HPCD...	32.35	1.794e2					2.2	NO		bb		0.000

ETHERS4

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION3 OCDPE	36.43	2.220e2					4.4	YES		bb		0.000
2	FUNCTION3 OCDPE	36.04	2.012e2					4.7	YES		db		0.000
3	FUNCTION3 OCDPE	35.92	2.713e2					5.3	YES		dd		0.000
4	FUNCTION3 OCDPE	35.83	1.196e2					2.9	NO		bd		0.000
5	FUNCTION3 OCDPE	35.20	9.131e1					2.0	NO		bb		0.000
6	FUNCTION3 OCDPE	34.81	7.676e1					2.1	NO		bb		0.000
7	FUNCTION3 OCDPE	34.63	9.213e1					1.8	NO		bb		0.000

ETHERS5

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION4 NCDPE	38.69	1.455e2					4.9	YES		bb		0.000
2	FUNCTION4 NCDPE	38.38	1.137e2					3.1	YES		bb		0.000
3	FUNCTION4 NCDPE	41.14	8.055e1					2.3	NO		bb		0.000

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ETHERS6

	Compound	RT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
1	FUNCTION5 DCDPE	45.82	7.034e1					2.0	NO		bb		0.000
2	FUNCTION5 DCDPE	44.31	8.003e1					3.0	YES		db		0.000
3	FUNCTION5 DCDPE	44.25	9.076e1					2.4	NO		bd		0.000

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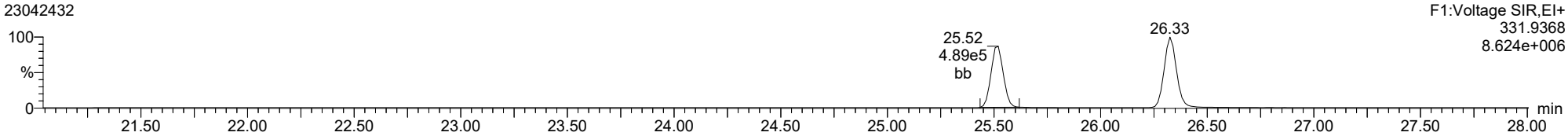

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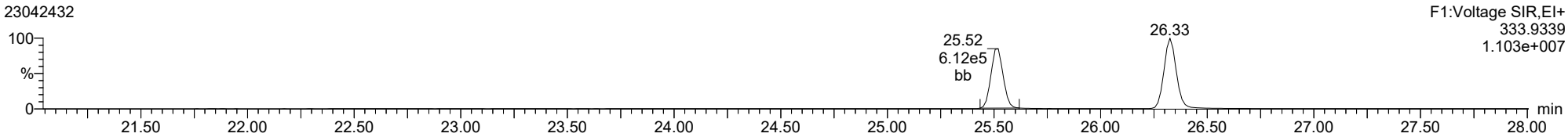

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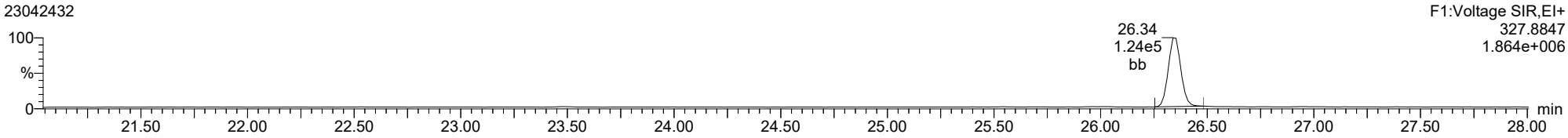

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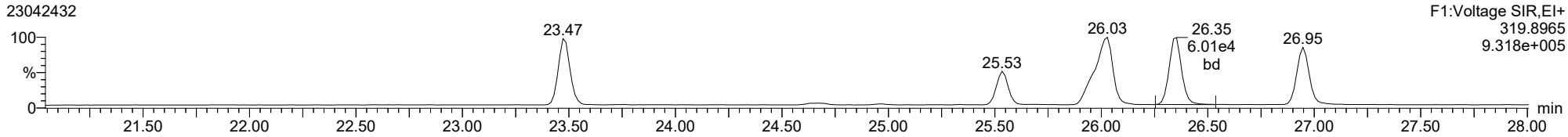

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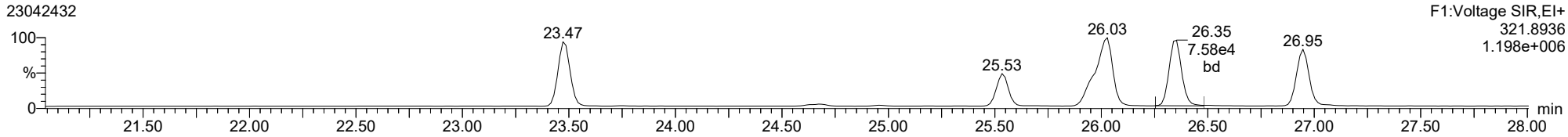

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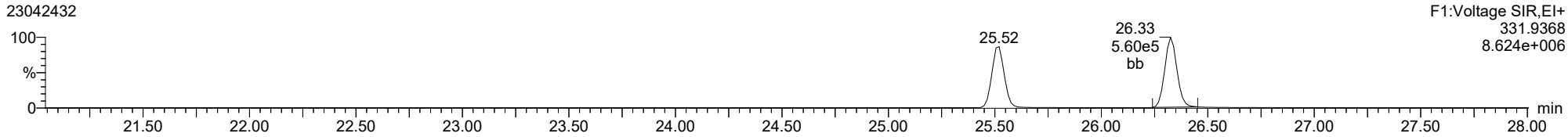

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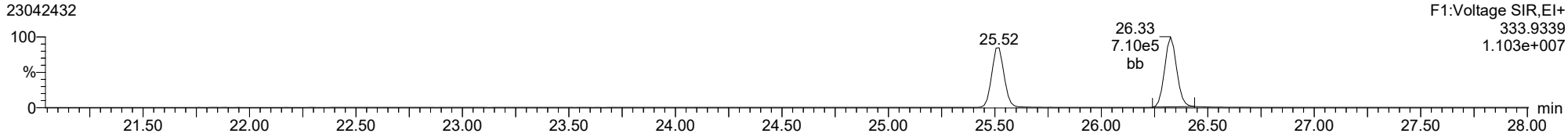

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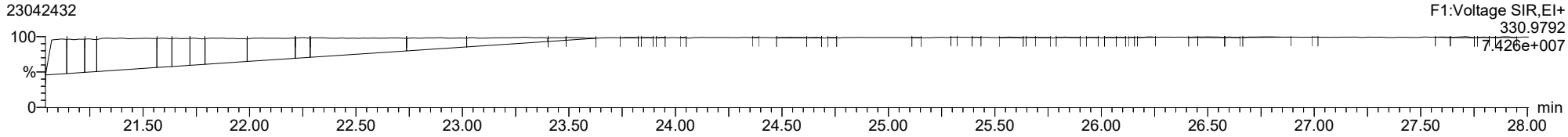

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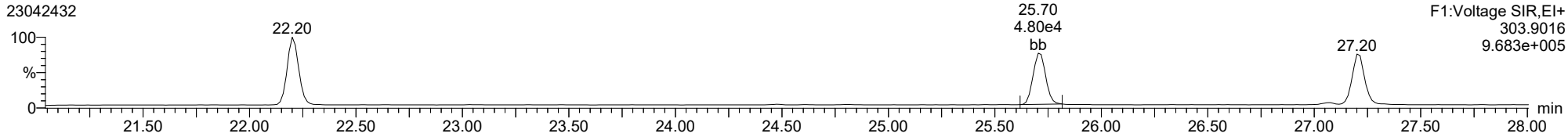

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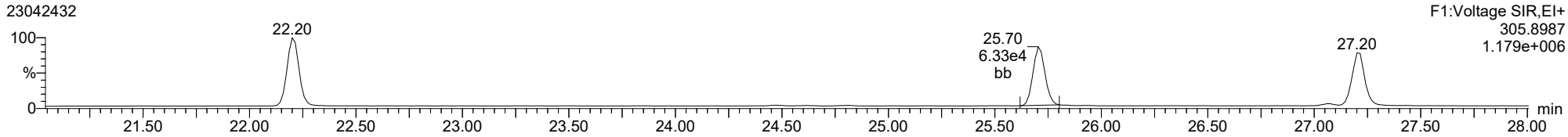

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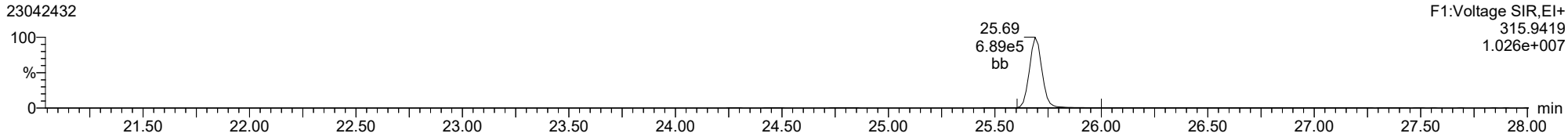

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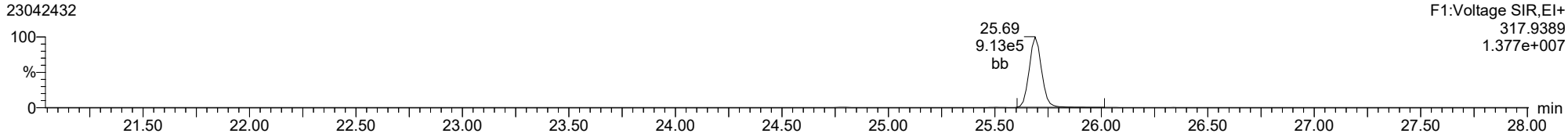

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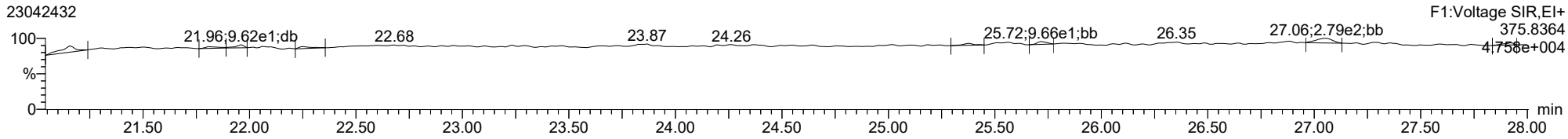

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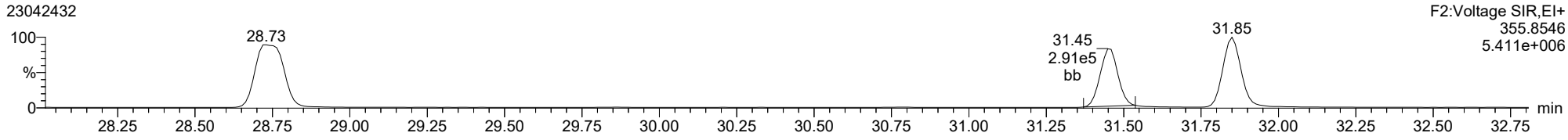

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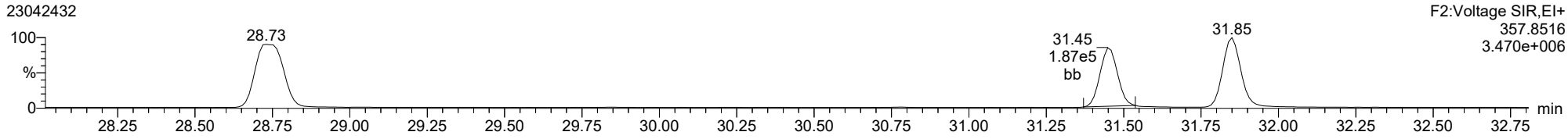

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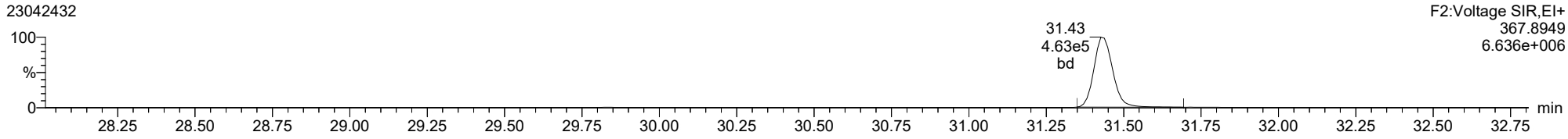

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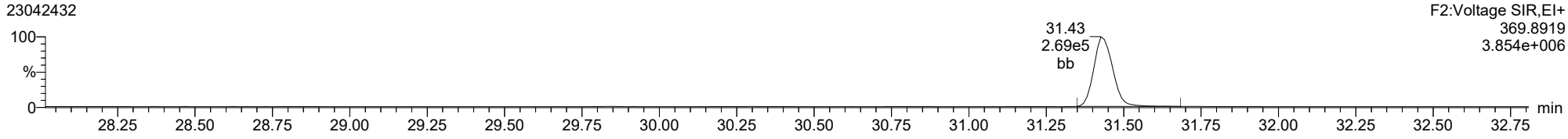

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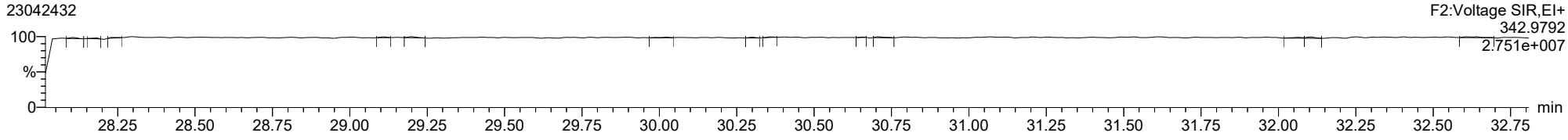

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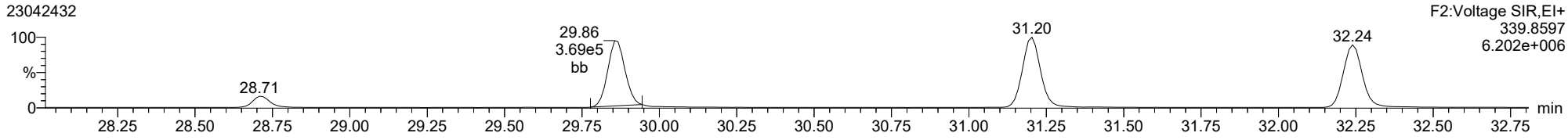

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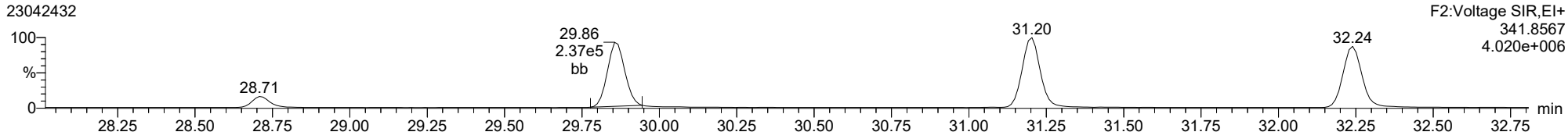

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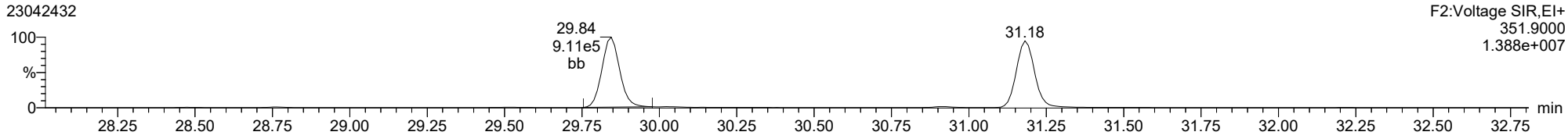

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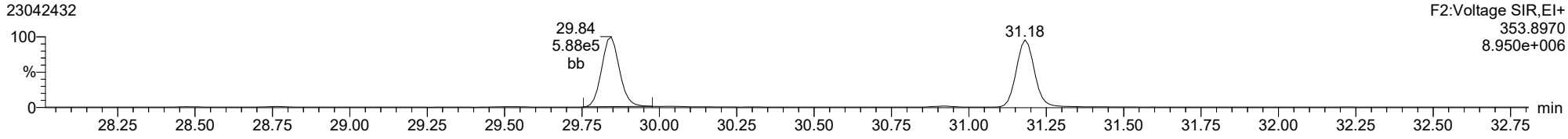

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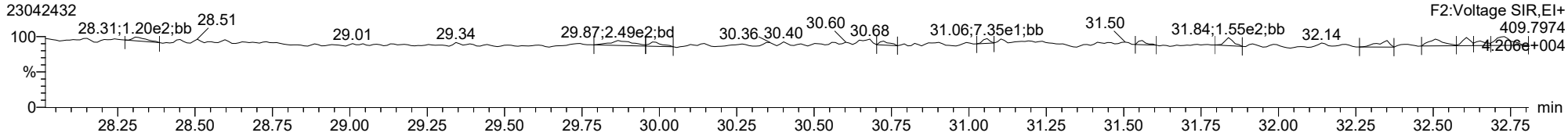

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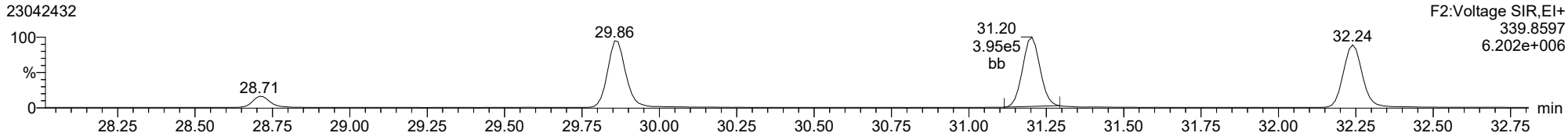

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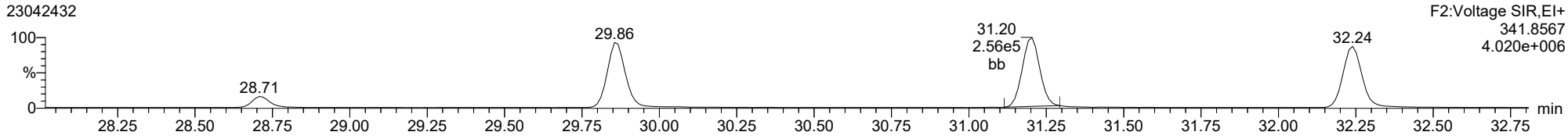

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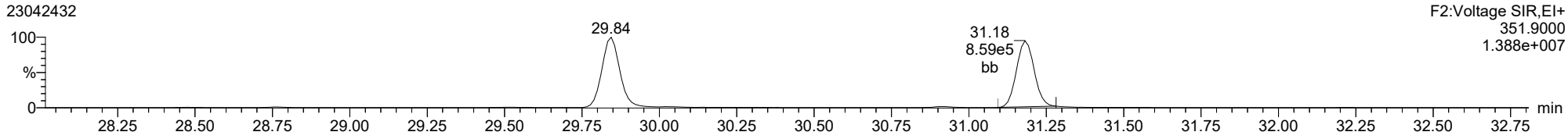

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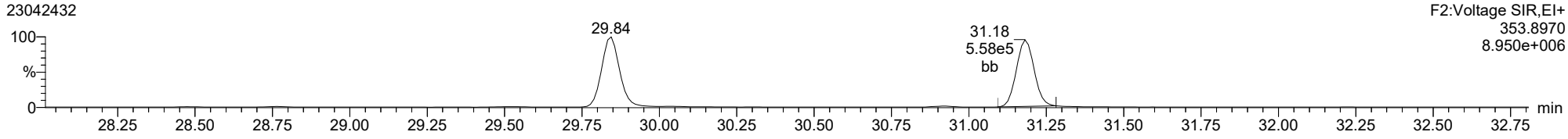

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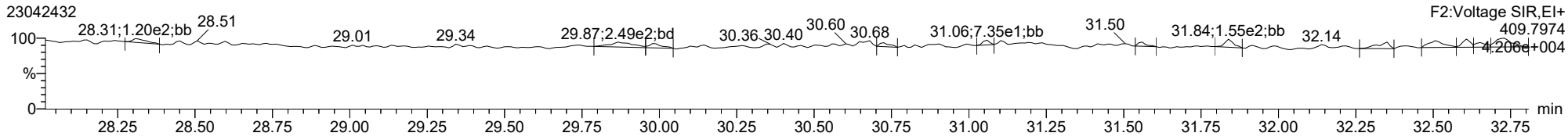

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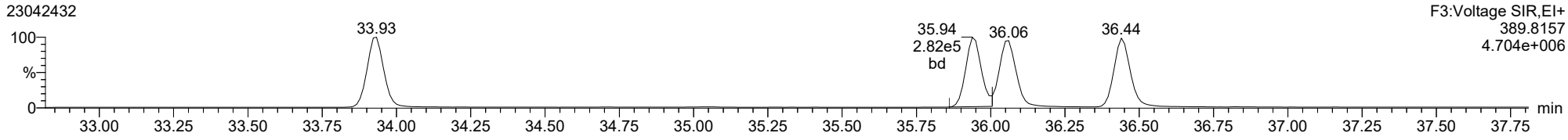

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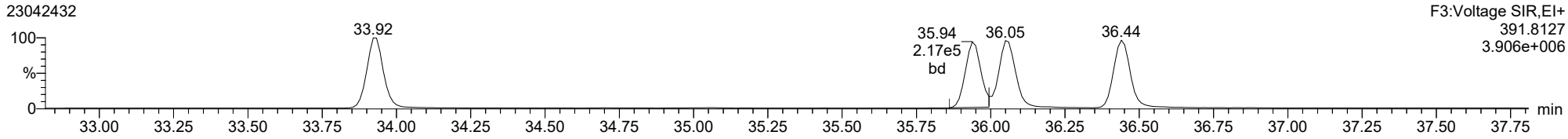

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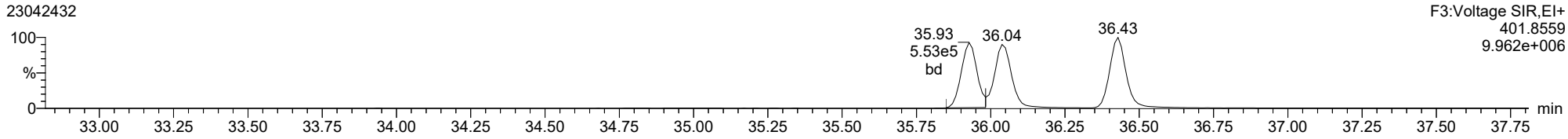

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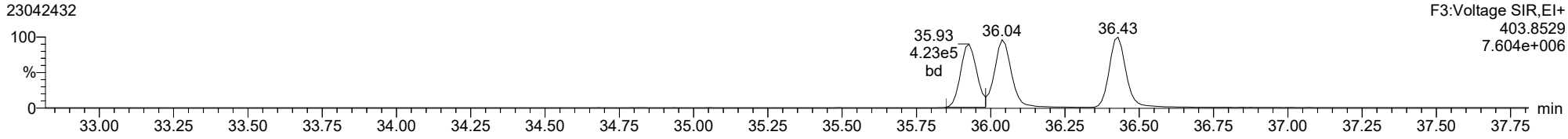

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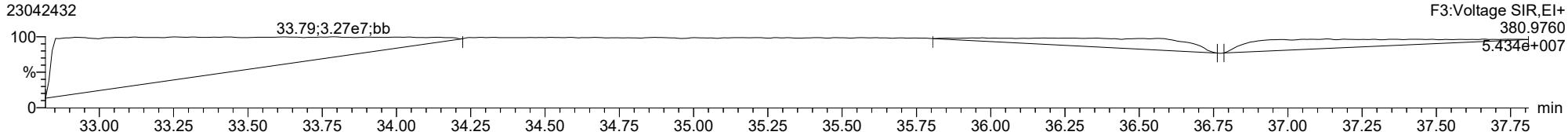

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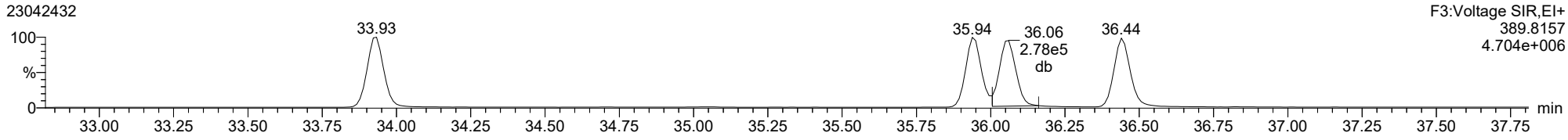

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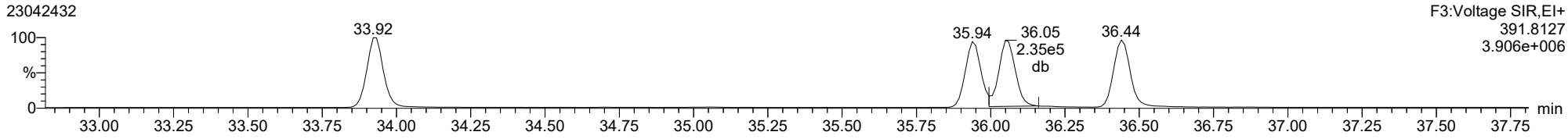

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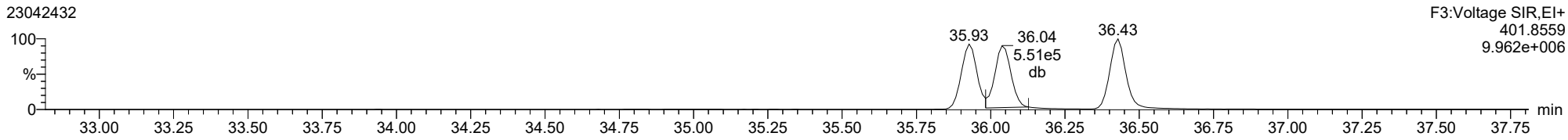

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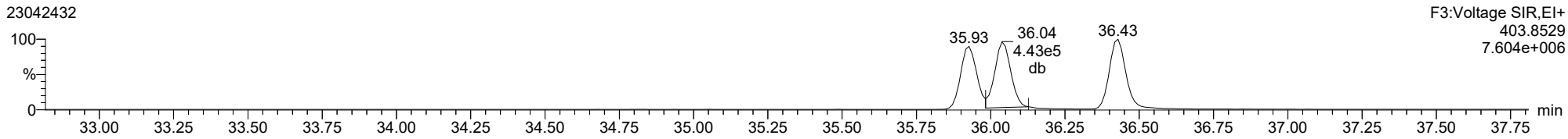

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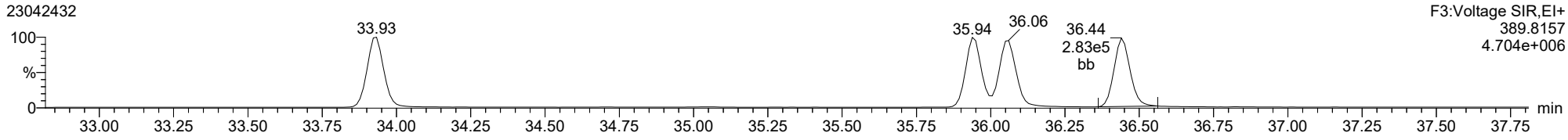

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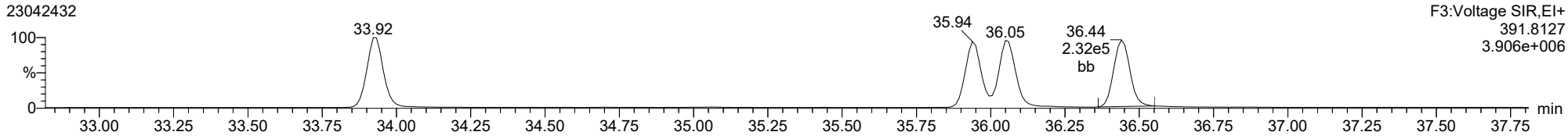

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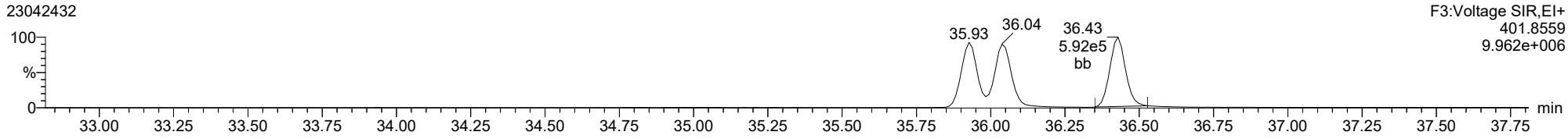

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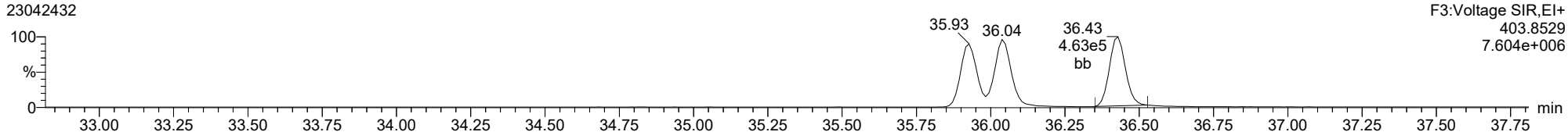

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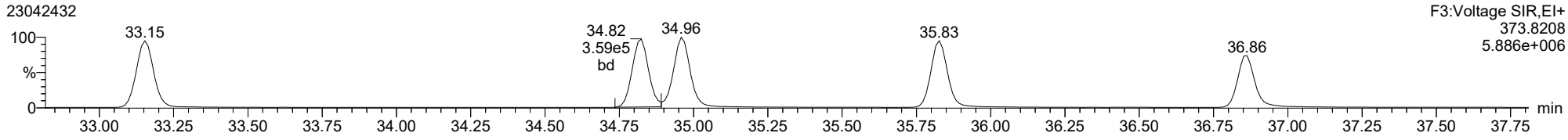

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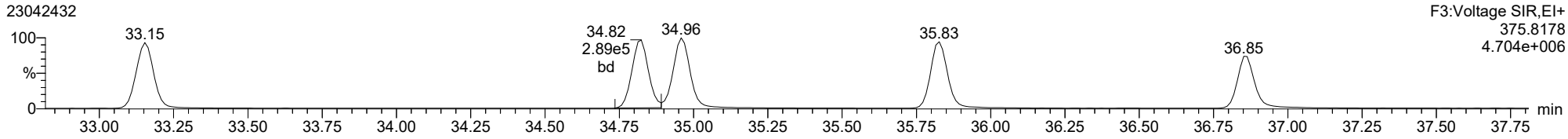

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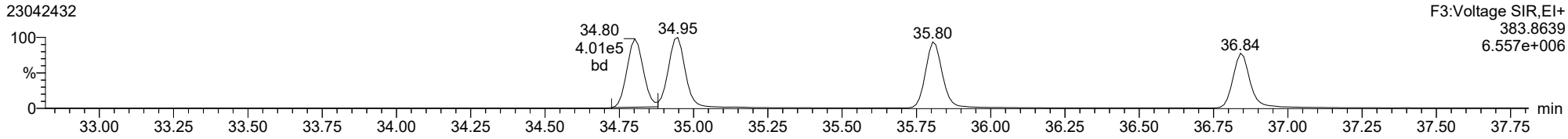

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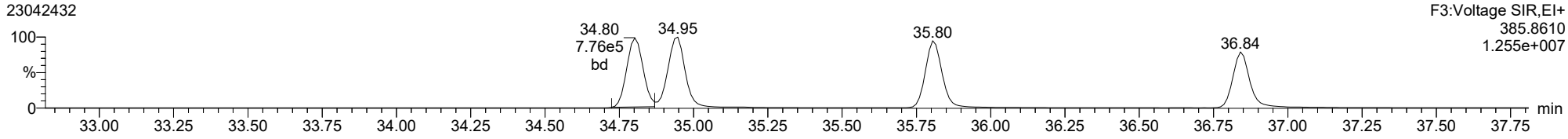

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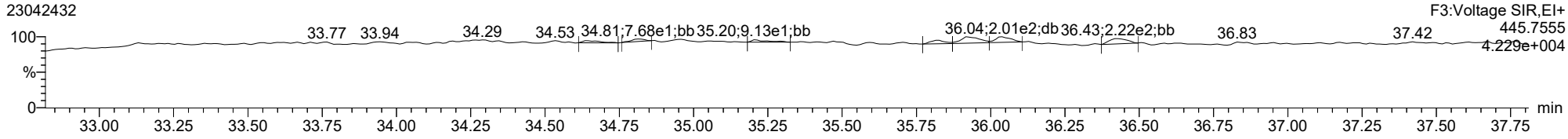

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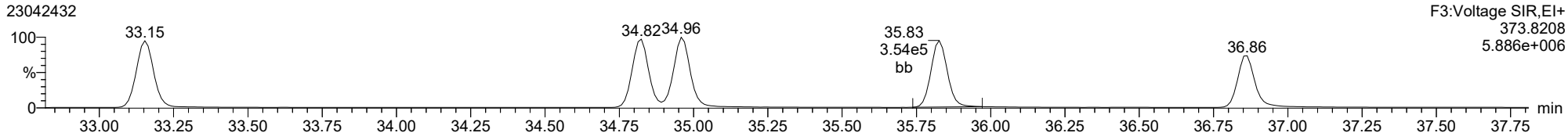

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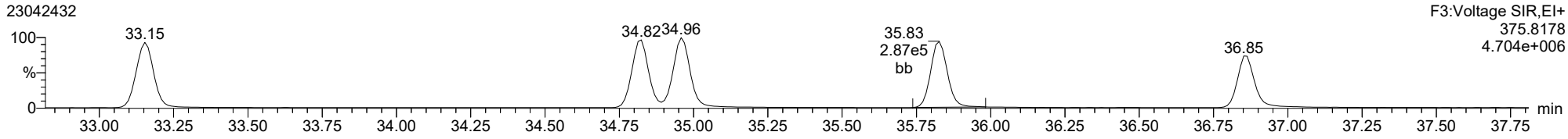

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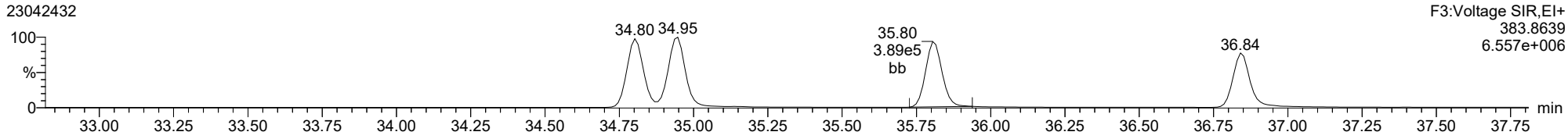

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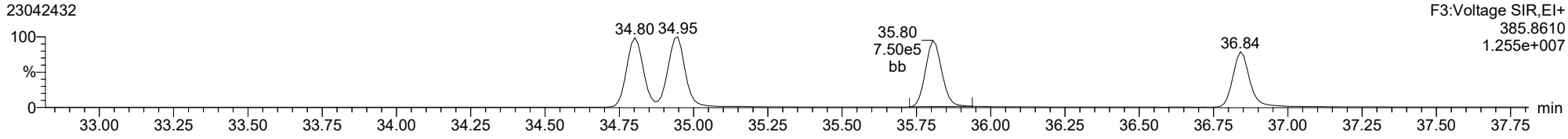

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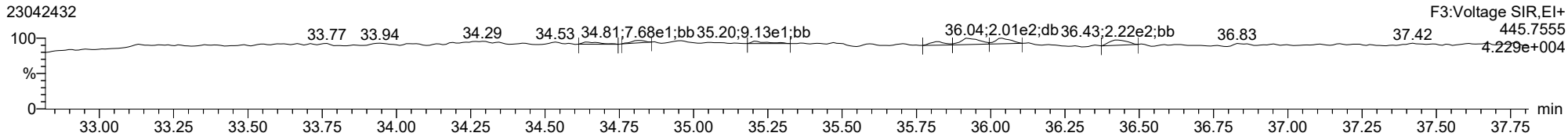

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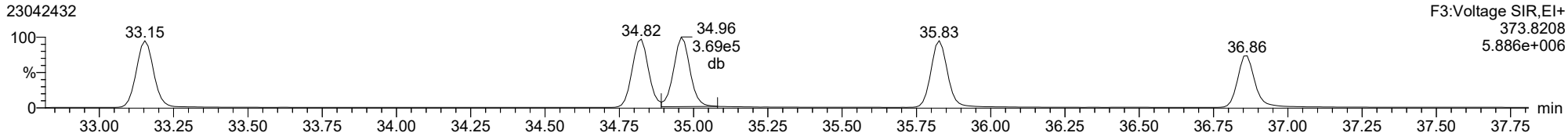

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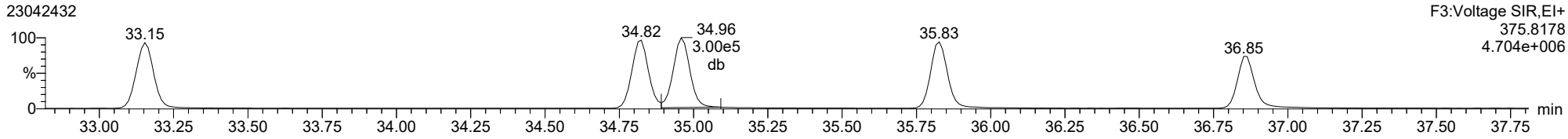

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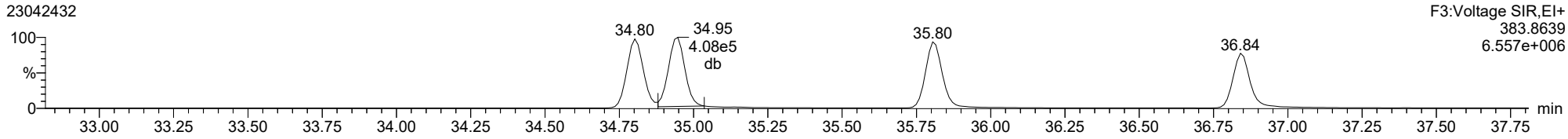

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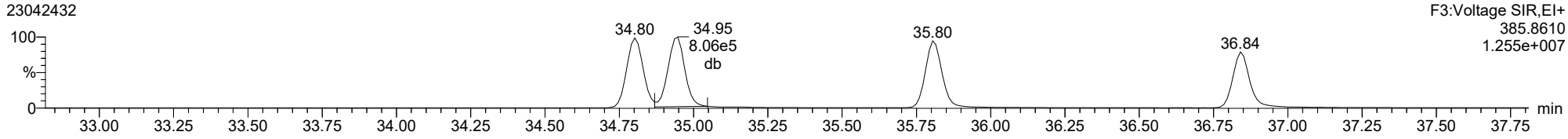

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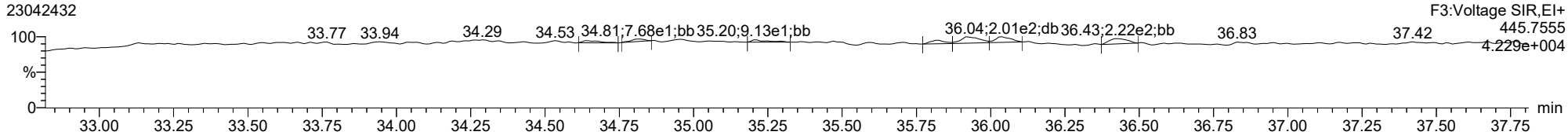

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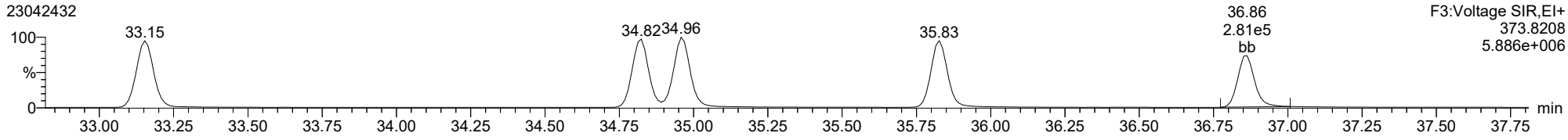

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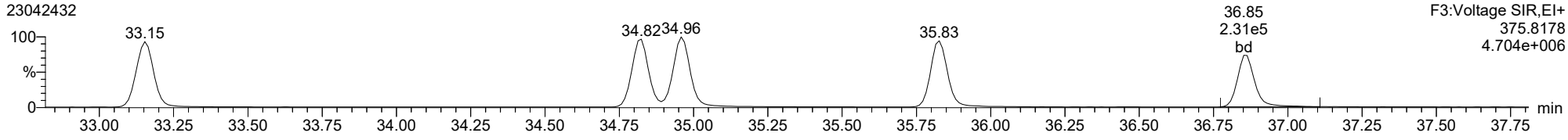

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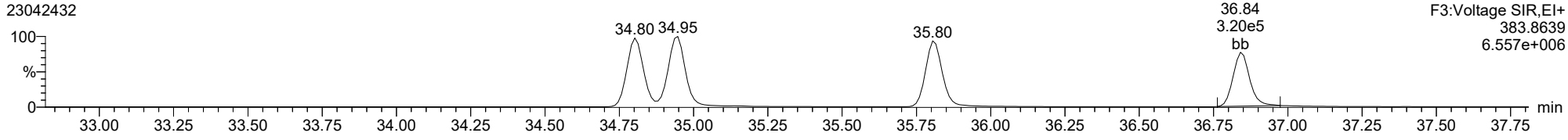

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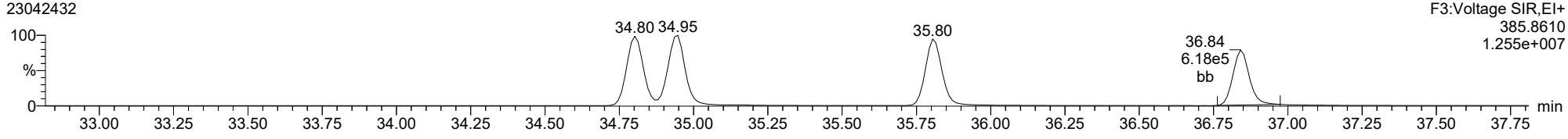

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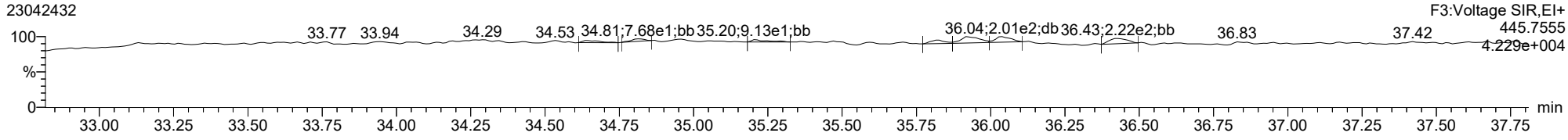

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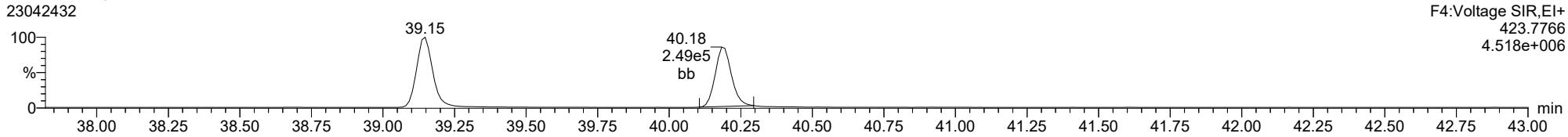

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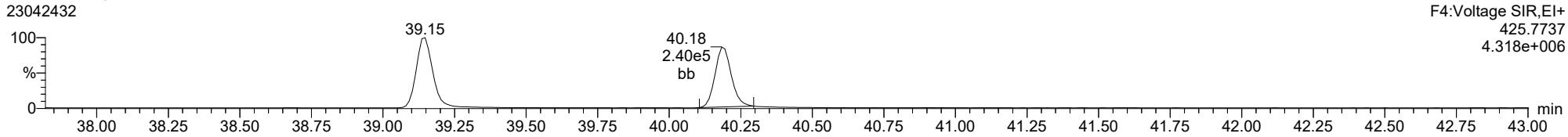

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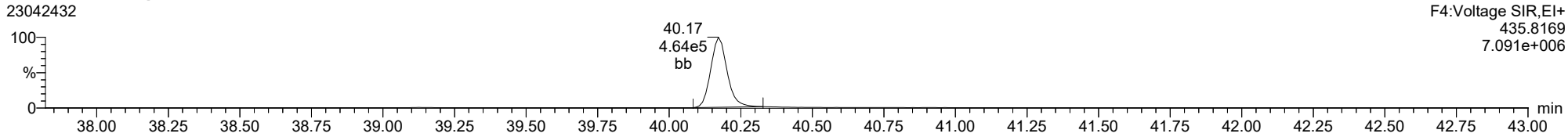

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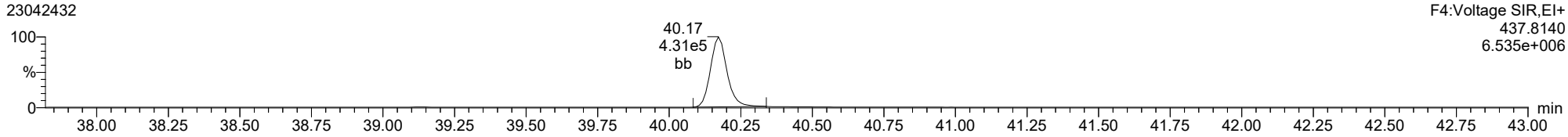

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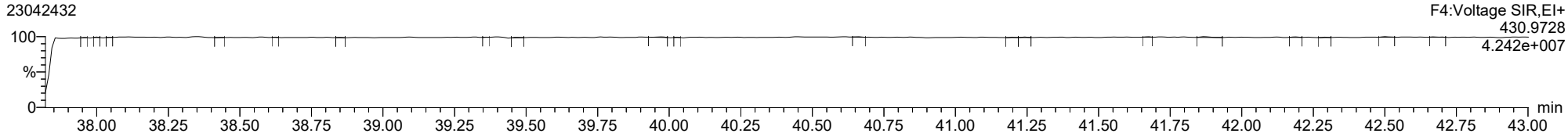

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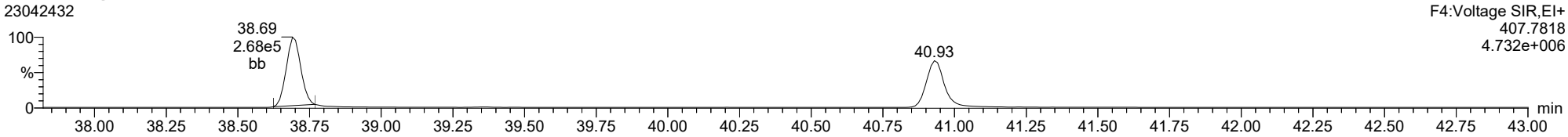

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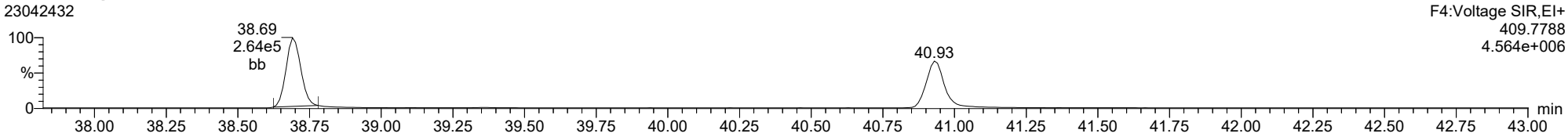

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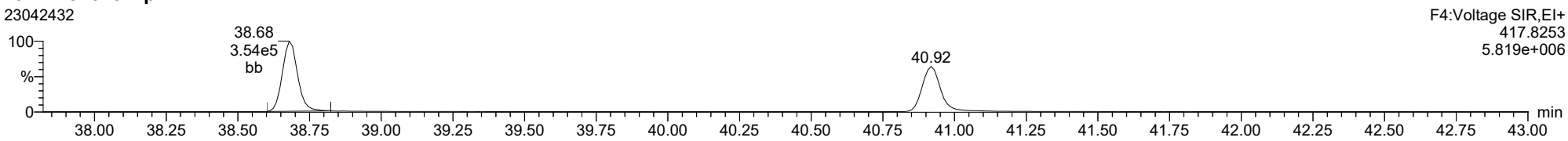

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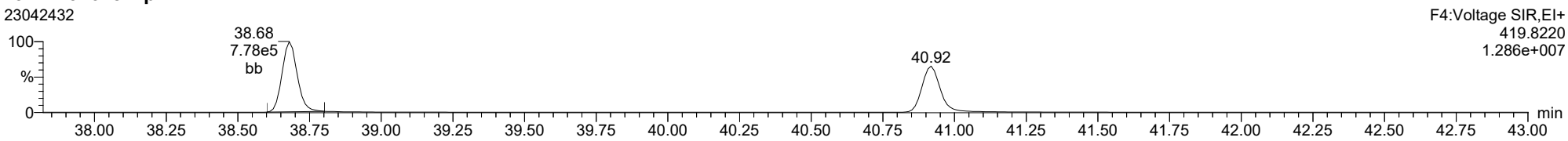

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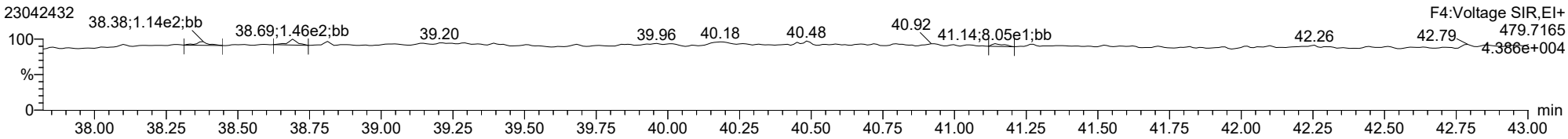

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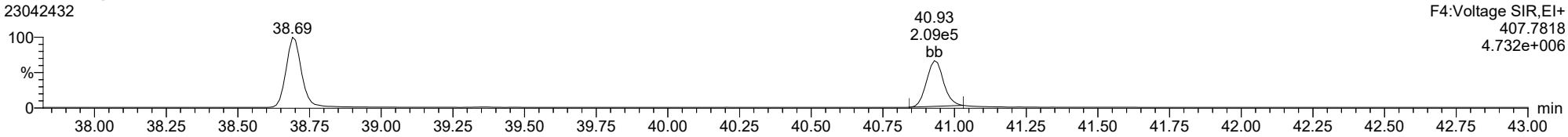

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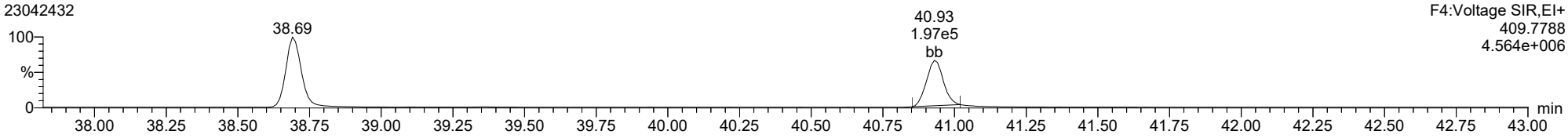

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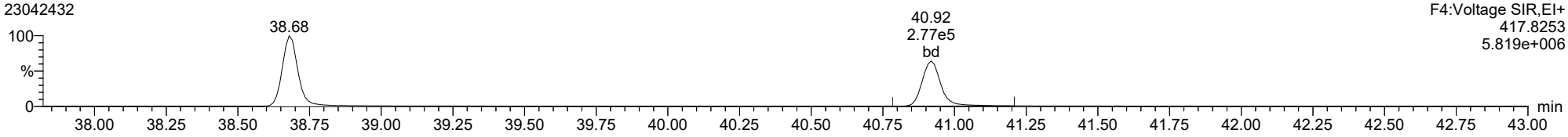

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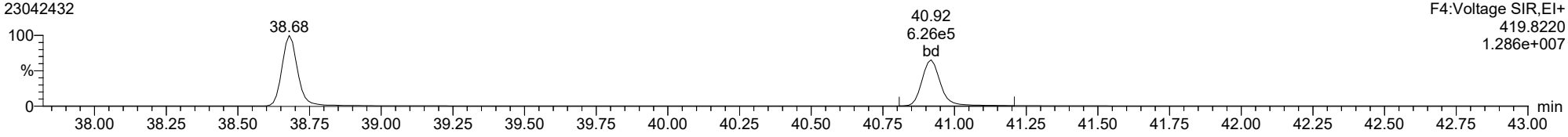

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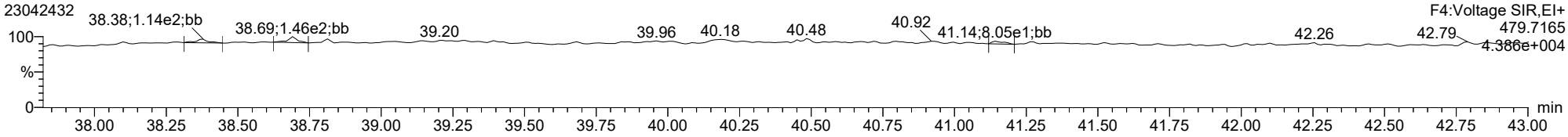

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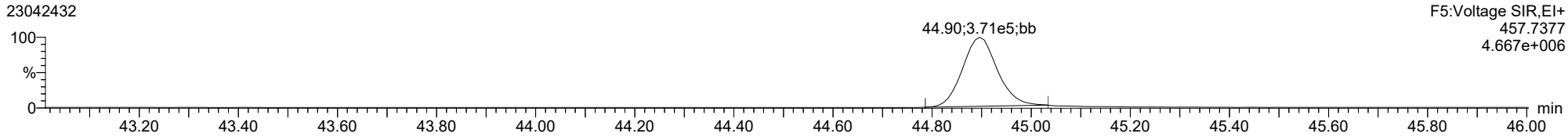

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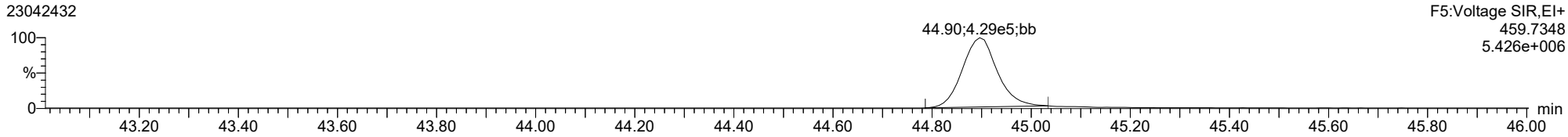

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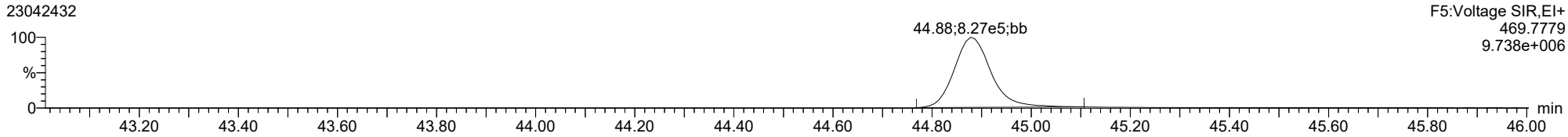

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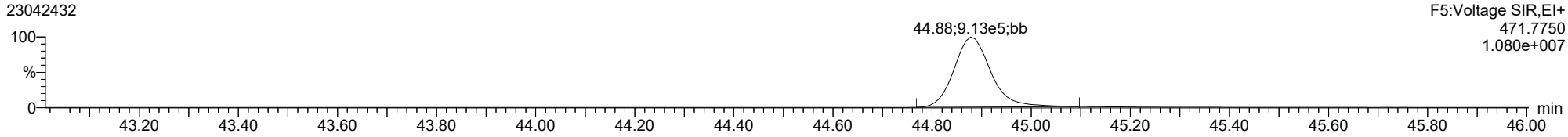
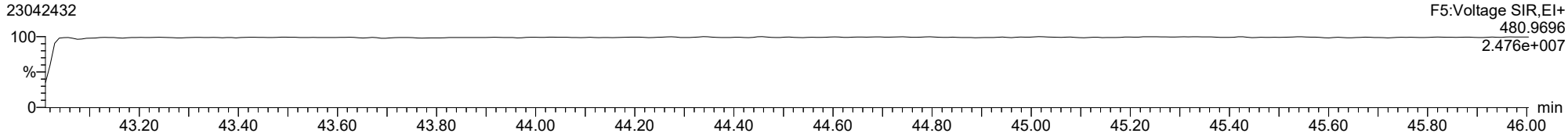


FUNCTION5 PFK



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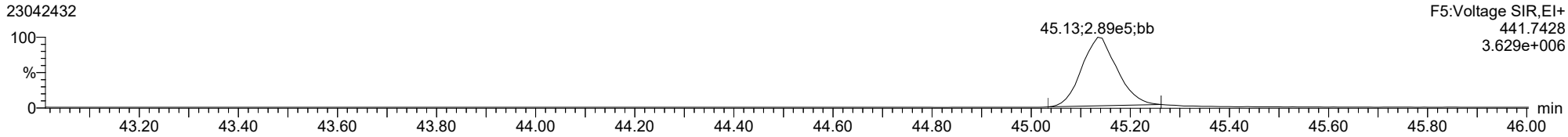
ID: CS3H4, Name: 23042432, Date: 25-Apr-2023, Time: 15:57:20, Conditions: AUTOSPEC01, User: pk

OCDF



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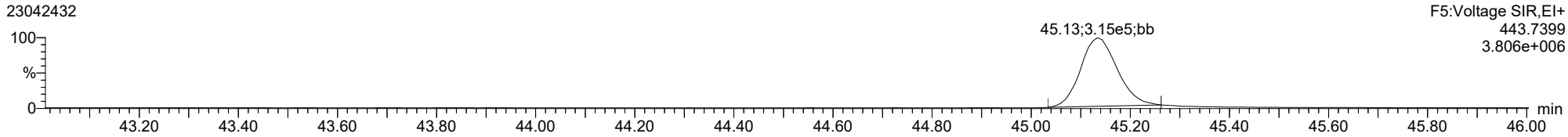
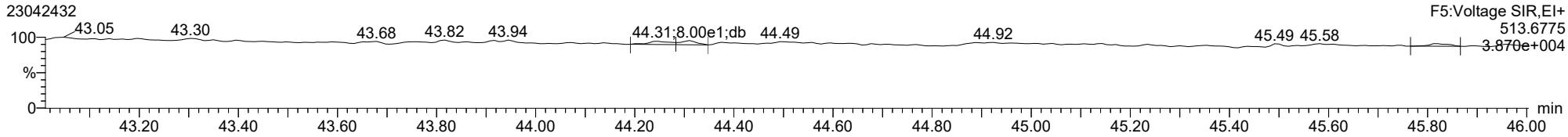


FUNCTION5 DCDPE



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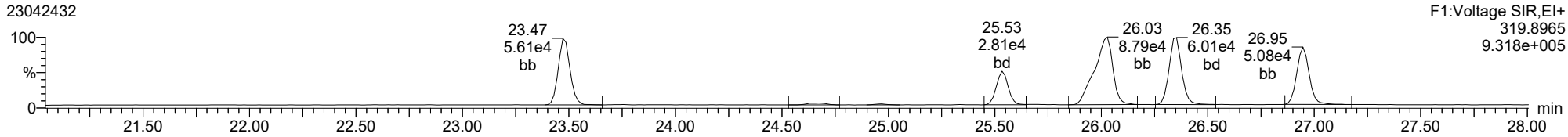
ID: CS3H4, Name: 23042432, Date: 25-Apr-2023, Time: 15:57:20, Conditions: AUTOSPEC01, User: pk

Total-tetradioxins



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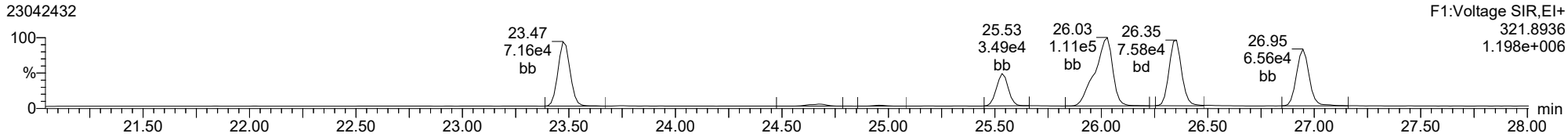
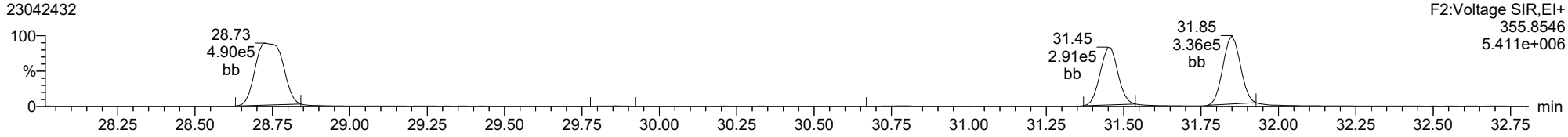
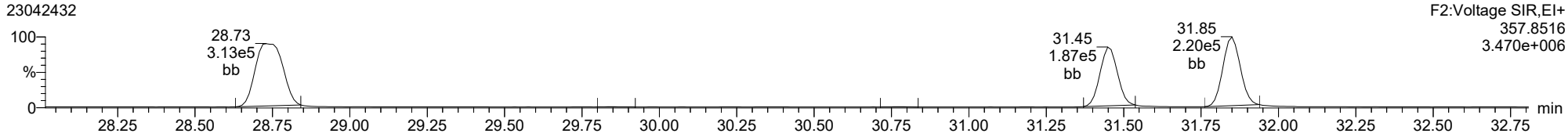


Total-pentadioxins



Total-pentadioxins



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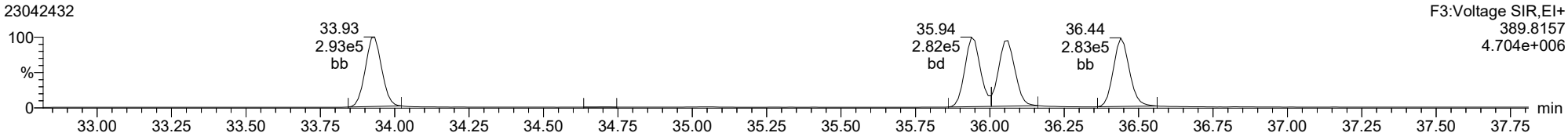

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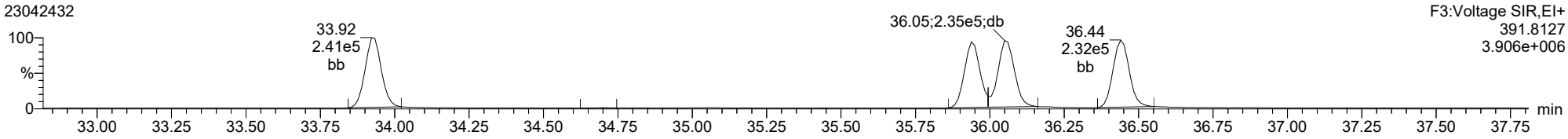

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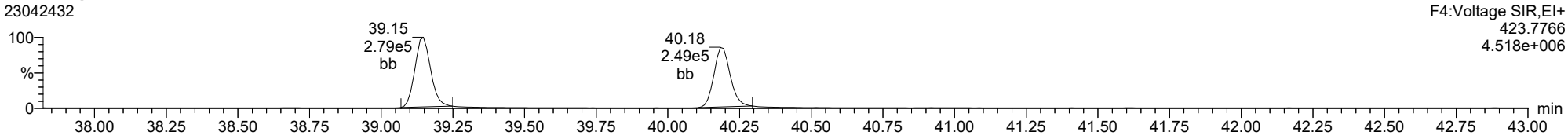

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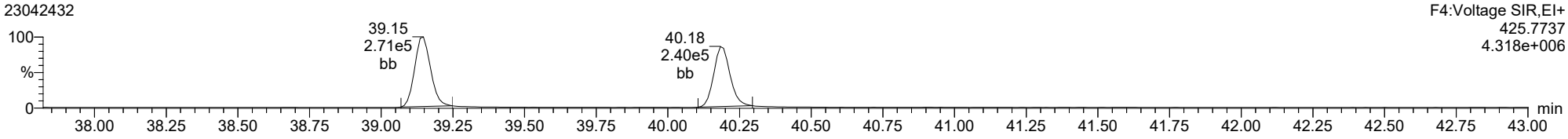

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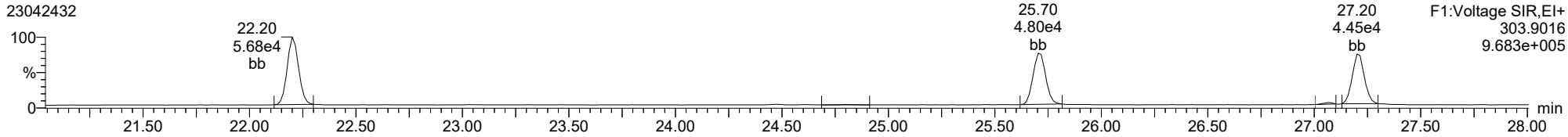
Total-tetrafurans



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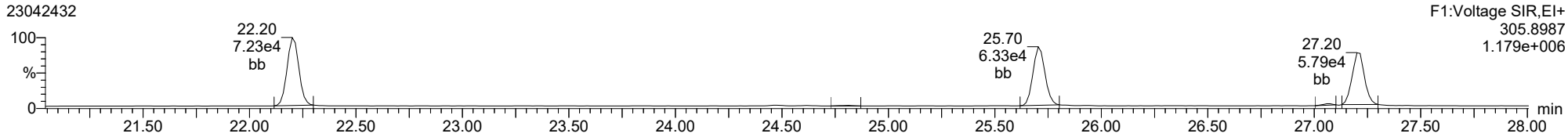

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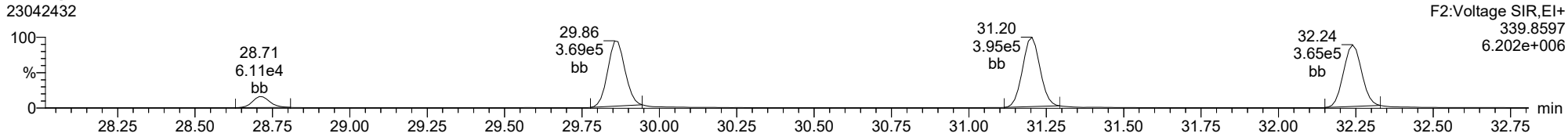

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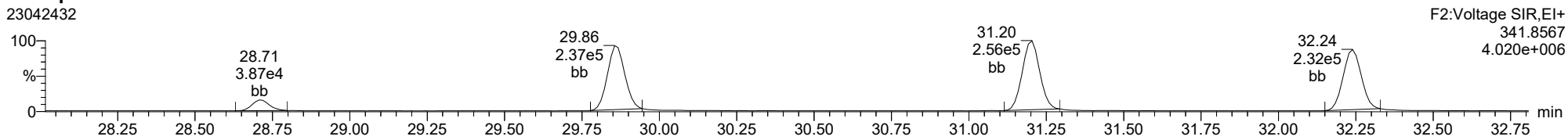

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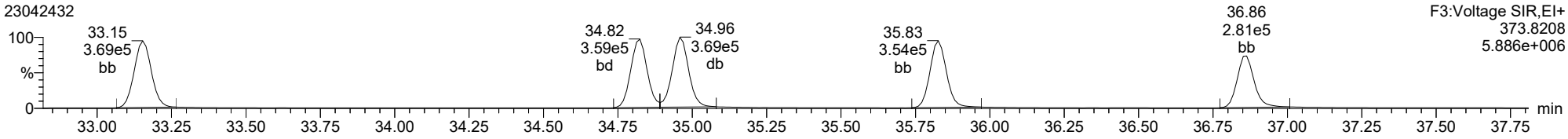
Total-hexafurans



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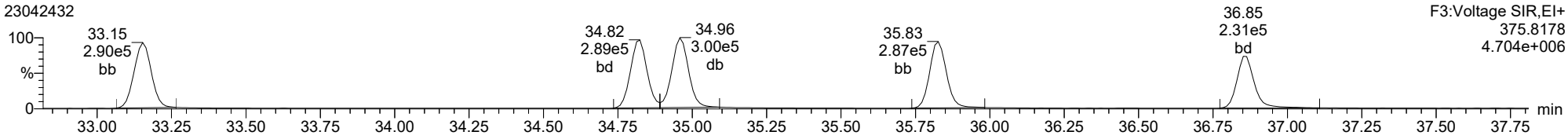

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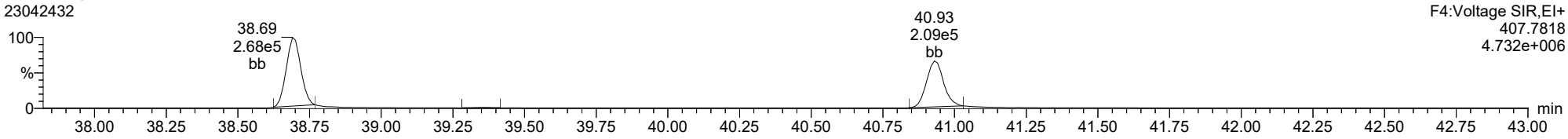

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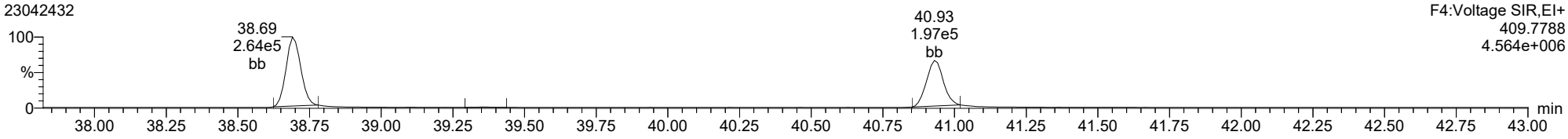

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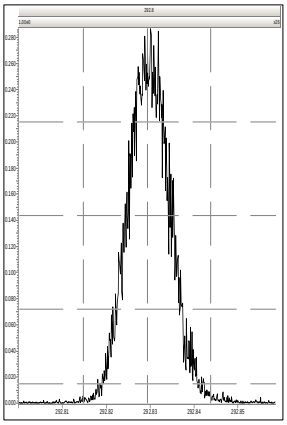

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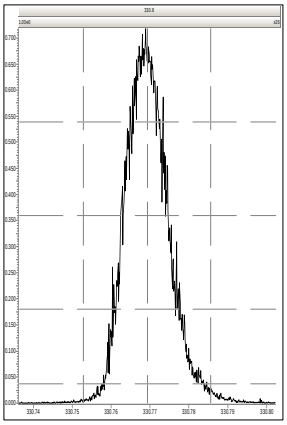

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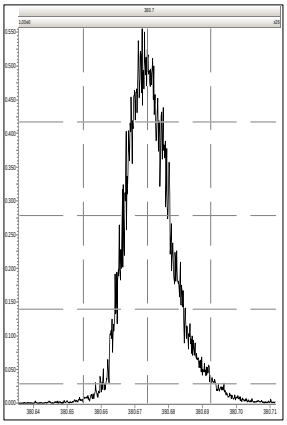

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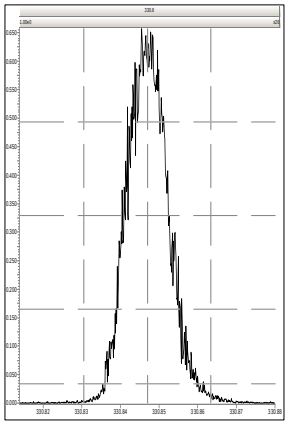

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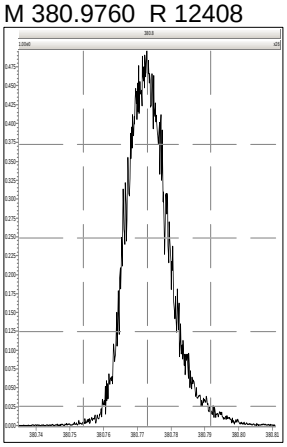

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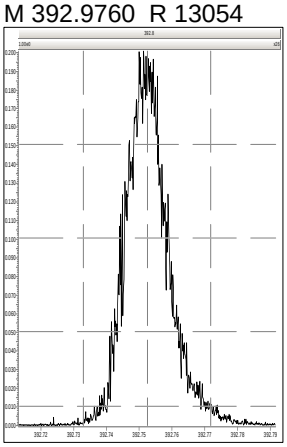

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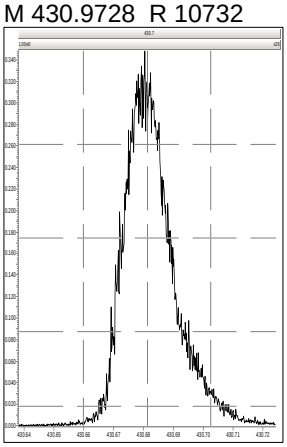

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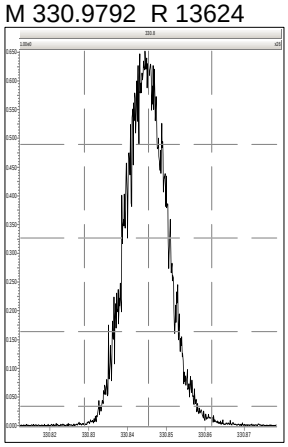

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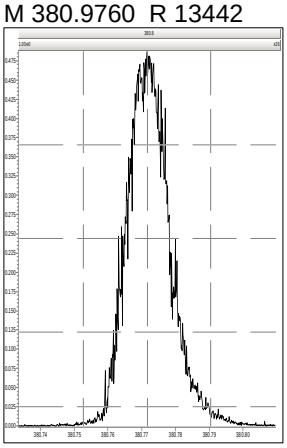

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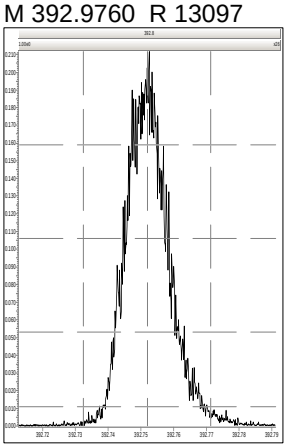

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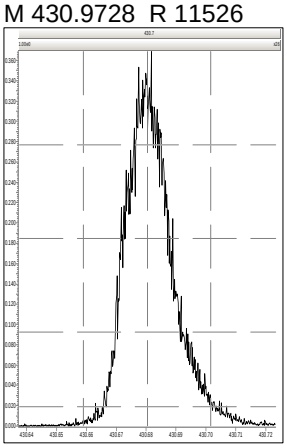

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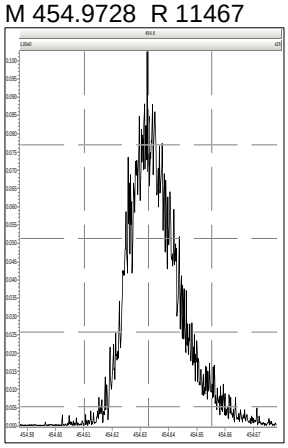

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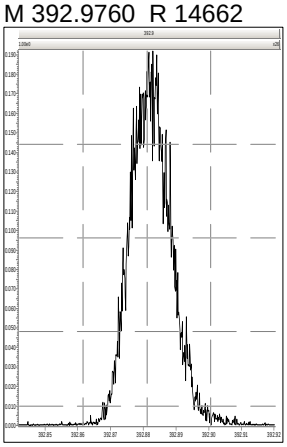

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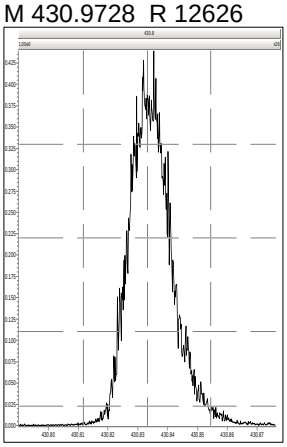

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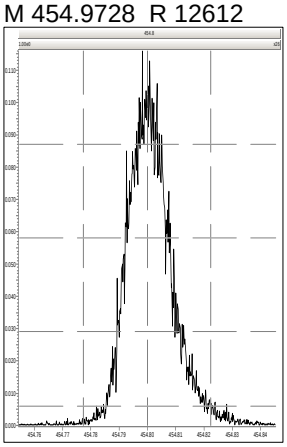

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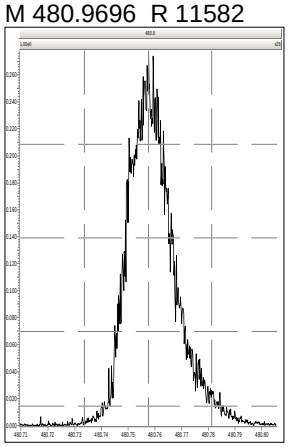

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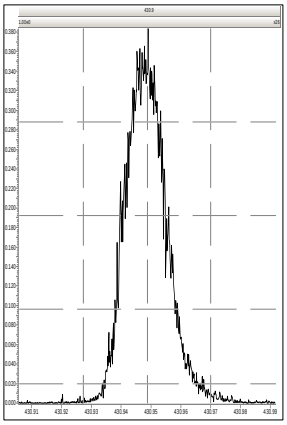

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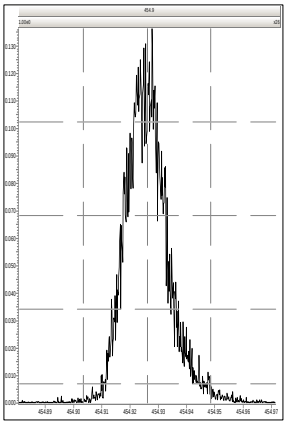

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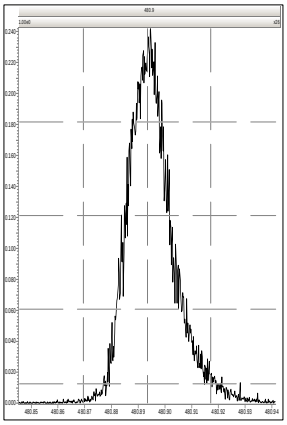

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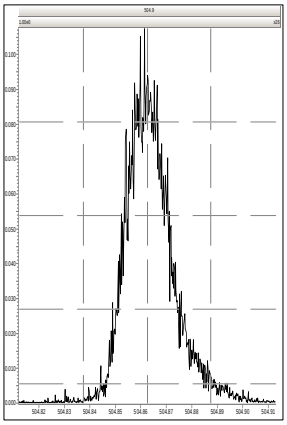
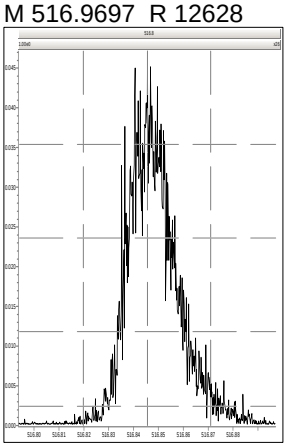
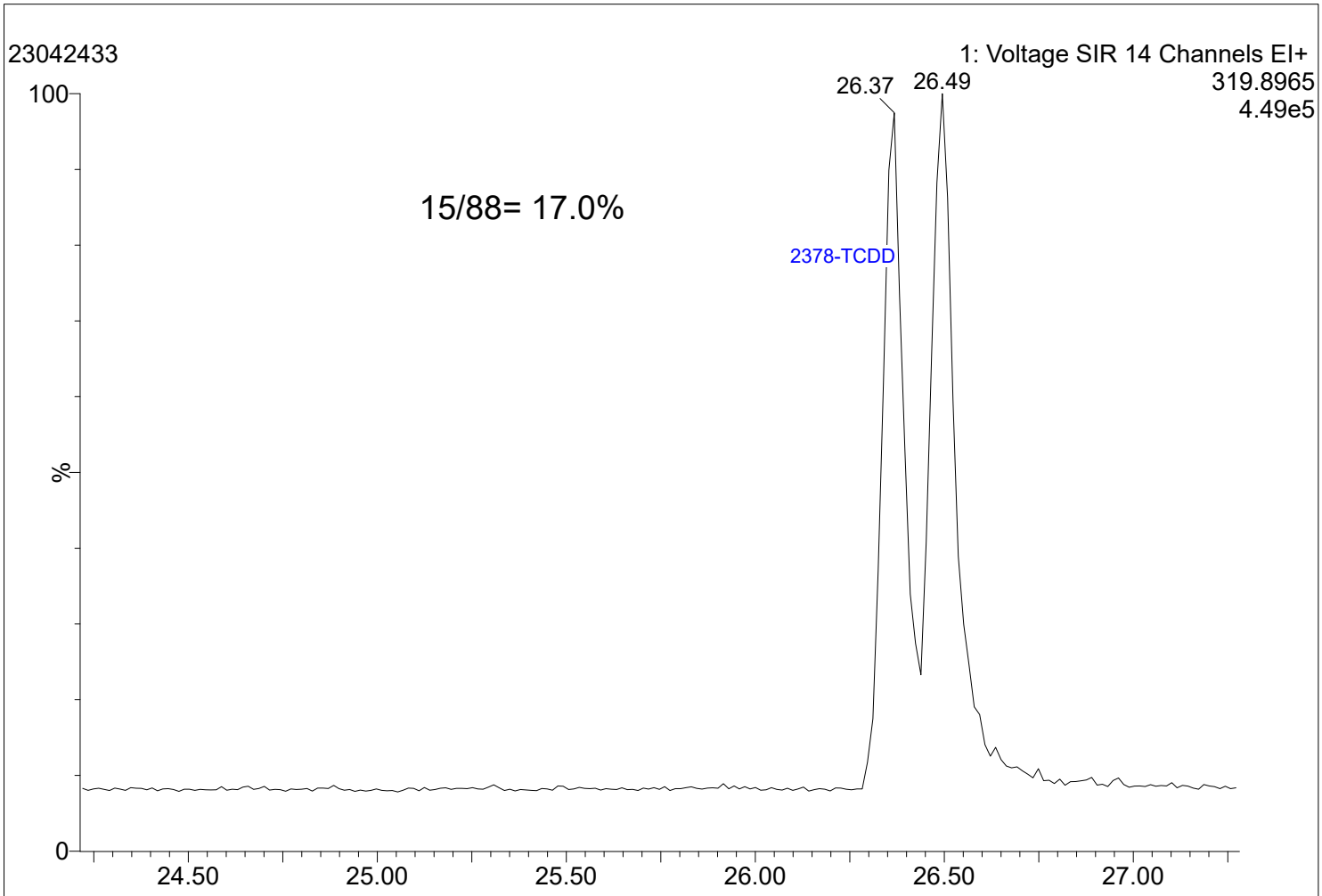
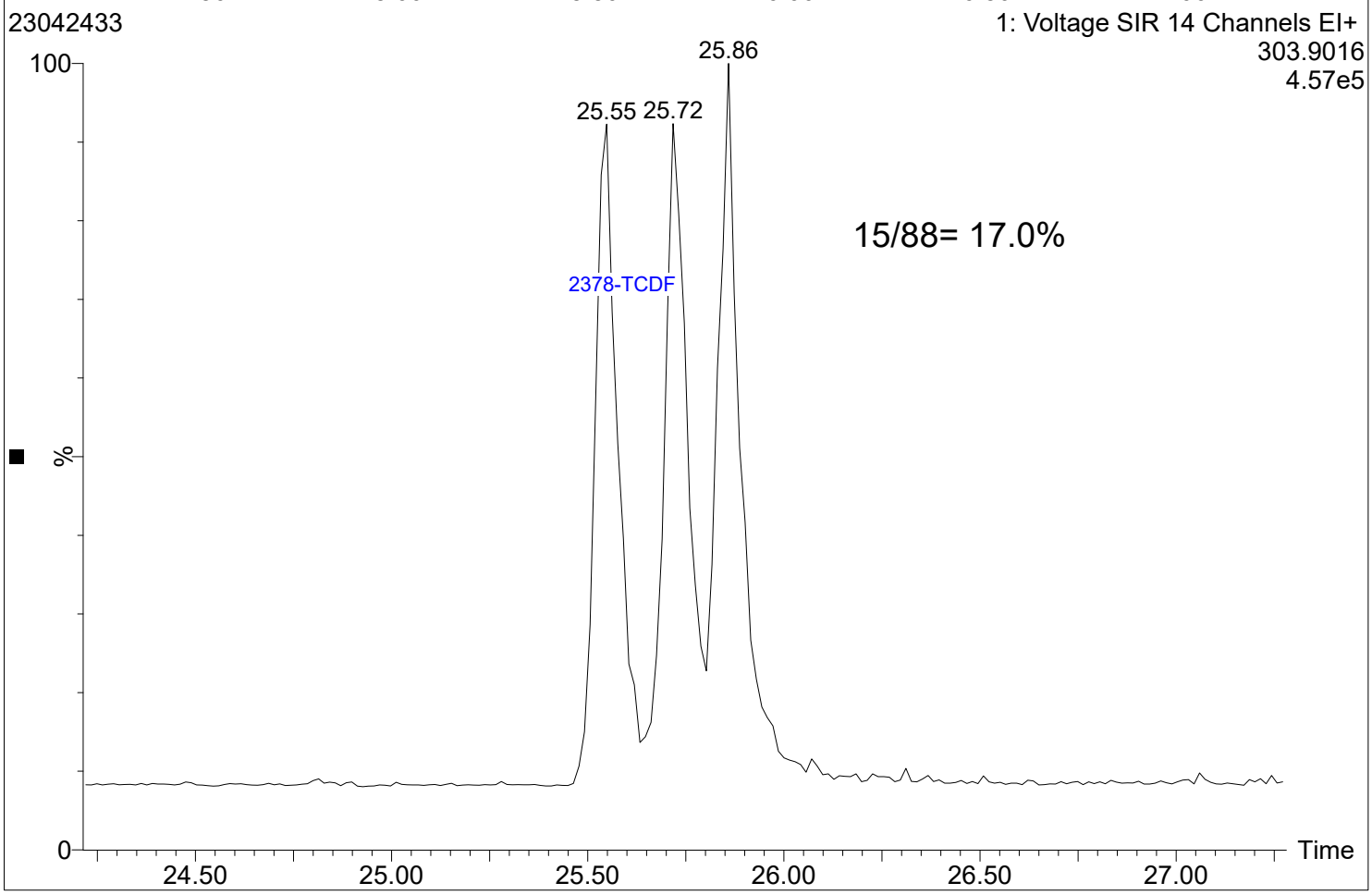


M 516.9697 R 12628




23042433
1: Voltage SIR 14 Channels EI+
319.8965
4.49e5
26.37
26.49
15/88= 17.0%
2378-TCDD
100
%
0
24.50
25.00
25.50
26.00
26.50
27.00


23042433
1: Voltage SIR 14 Channels EI+
303.9016
4.57e5
25.86
25.55
25.72
15/88= 17.0%
2378-TCDF
100
%
0
Time
24.50
25.00
25.50
26.00
26.50
27.00

Analytical Resources, LLC
Analytical Chemists and Consultants

CDD/CDF CHROMATOGRAPHIC RESOLUTION SUMMARY

EPA 1613B

Lab Name: Analytical Resources, LLC SDG: 23C0071

Instrument .ID: AUTOSPEC01 Lab File ID: 23030303

Date Analyzed: 03/03/23 Time Analyzed: 10:39

Lab Sample ID: SLC0045-RES1 Sequence: SLC0045

Percent Valley Determination for Column: RTX-Dioxin2 ID: 0.25 (mm)

1278-TCDD/2378-TCDD: 8.8

3467-TCDF/2378-TCDF: 8.2

Quality Control (QC) Limits: ≤ 25%

Lab Sample ID	Sample Name	Lab File ID	Data Analyzed	Time Analyzed
SLC0045-ICV1	CS3W1	23030302	03/03/2023	09:51
SLC0045-RES1	ISCW1	23030303	03/03/2023	10:39
SLC0045-CAL1	CSLCW	23030304	03/03/2023	11:28
SLC0045-CAL2	CS1CW	23030305	03/03/2023	12:23
SLC0045-CAL3	CS2CW	23030306	03/03/2023	13:16
SLC0045-CAL4	CS3CW	23030307	03/03/2023	14:06
SLC0045-CAL5	CS4CW	23030308	03/03/2023	14:59
SLC0045-CAL6	CS5CW	23030309	03/03/2023	15:47
SLC0045-SCV1	ICVCW	23030310	03/03/2023	16:36
SLC0045-CCV1	CS3V4	23030311	03/03/2023	17:25
SLC0045-RES2	ISCV4	23030312	03/03/2023	18:18

Analytical Resources, LLC
Analytical Chemists and Consultants

CDD/CDF CHROMATOGRAPHIC RESOLUTION SUMMARY

EPA 1613B

Lab Name: Analytical Resources, LLC
SDG: 23C0071
Instrument .ID: AUTOSPEC01
Lab File ID: 23030312
Date Analyzed: 03/03/23
Time Analyzed: 18:18
Lab Sample ID: SLC0045-RES2
Sequence: SLC0045

Percent Valley Determination for Column: RTX-Dioxin2 ID: 0.25 (mm)

1278-TCDD/2378-TCDD: 12.9

3467-TCDF/2378-TCDF: 11.7

Quality Control (QC) Limits: ≤ 25%

Lab Sample ID	Sample Name	Lab File ID	Data Analyzed	Time Analyzed
SLC0045-ICV1	CS3W1	23030302	03/03/2023	09:51
SLC0045-RES1	ISCW1	23030303	03/03/2023	10:39
SLC0045-CAL1	CSLCW	23030304	03/03/2023	11:28
SLC0045-CAL2	CS1CW	23030305	03/03/2023	12:23
SLC0045-CAL3	CS2CW	23030306	03/03/2023	13:16
SLC0045-CAL4	CS3CW	23030307	03/03/2023	14:06
SLC0045-CAL5	CS4CW	23030308	03/03/2023	14:59
SLC0045-CAL6	CS5CW	23030309	03/03/2023	15:47
SLC0045-SCV1	ICVCW	23030310	03/03/2023	16:36
SLC0045-CCV1	CS3V4	23030311	03/03/2023	17:25
SLC0045-RES2	ISCV4	23030312	03/03/2023	18:18

Analytical Resources, LLC
Analytical Chemists and Consultants

CDD/CDF CHROMATOGRAPHIC RESOLUTION SUMMARY

EPA 1613B

Lab Name: Analytical Resources, LLC SDG: 23C0071

Instrument .ID: AUTOSPEC01 Lab File ID: 23042403

Date Analyzed: 04/24/23 Time Analyzed: 16:04

Lab Sample ID: SLD0330-RES1 Sequence: SLD0330

Percent Valley Determination for Column: RTX-Dioxin2 ID: 0.25 (mm)

1278-TCDD/2378-TCDD: 9.6

3467-TCDF/2378-TCDF: 13.5

Quality Control (QC) Limits: ≤ 25%

Lab Sample ID	Sample Name	Lab File ID	Data Analyzed	Time Analyzed
SLD0330-ICV1	CS3H1	23042402	04/24/2023	14:09
SLD0330-RES1	ISCH1	23042403	04/24/2023	16:04
SLD0330-CCV1	CS3H2	23042412	04/24/2023	23:24
SLD0330-RES2	ISCH2	23042413	04/25/2023	00:17
SLD0330-CCV2	CS3H3	23042421	04/25/2023	06:52
SLD0330-RES3	ISCH3	23042422	04/25/2023	07:44
BLC0379-BLK1	Blank	23042423	04/25/2023	08:36
BLC0379-BS1	LCS	23042424	04/25/2023	09:25
BLC0379-SRM1	Reference	23042425	04/25/2023	10:14
BLC0379-DUP1	Duplicate	23042426	04/25/2023	11:03
23C0071-02	LDW23-SS1037	23042427	04/25/2023	11:52
SLD0330-CCV3	CS3H4	23042432	04/25/2023	15:57
SLD0330-RES4	ISCH4	23042433	04/25/2023	16:50

Analytical Resources, LLC
Analytical Chemists and Consultants

CDD/CDF CHROMATOGRAPHIC RESOLUTION SUMMARY

EPA 1613B

Lab Name: Analytical Resources, LLC
SDG: 23C0071
Instrument .ID: AUTOSPEC01
Lab File ID: 23042413
Date Analyzed: 04/25/23
Time Analyzed: 00:17
Lab Sample ID: SLD0330-RES2
Sequence: SLD0330

Percent Valley Determination for Column: RTX-Dioxin2 ID: 0.25 (mm)

1278-TCDD/2378-TCDD: 19.5

3467-TCDF/2378-TCDF: 21.4

Quality Control (QC) Limits: ≤ 25%

Lab Sample ID	Sample Name	Lab File ID	Data Analyzed	Time Analyzed
SLD0330-ICV1	CS3H1	23042402	04/24/2023	14:09
SLD0330-RES1	ISCH1	23042403	04/24/2023	16:04
SLD0330-CCV1	CS3H2	23042412	04/24/2023	23:24
SLD0330-RES2	ISCH2	23042413	04/25/2023	00:17
SLD0330-CCV2	CS3H3	23042421	04/25/2023	06:52
SLD0330-RES3	ISCH3	23042422	04/25/2023	07:44
BLC0379-BLK1	Blank	23042423	04/25/2023	08:36
BLC0379-BS1	LCS	23042424	04/25/2023	09:25
BLC0379-SRM1	Reference	23042425	04/25/2023	10:14
BLC0379-DUP1	Duplicate	23042426	04/25/2023	11:03
23C0071-02	LDW23-SS1037	23042427	04/25/2023	11:52
SLD0330-CCV3	CS3H4	23042432	04/25/2023	15:57
SLD0330-RES4	ISCH4	23042433	04/25/2023	16:50

Analytical Resources, LLC
Analytical Chemists and Consultants

CDD/CDF CHROMATOGRAPHIC RESOLUTION SUMMARY

EPA 1613B

Lab Name: Analytical Resources, LLC
SDG: 23C0071
Instrument .ID: AUTOSPEC01
Lab File ID: 23042422
Date Analyzed: 04/25/23
Time Analyzed: 07:44
Lab Sample ID: SLD0330-RES3
Sequence: SLD0330

Percent Valley Determination for Column: RTX-Dioxin2 ID: 0.25 (mm)

1278-TCDD/2378-TCDD: 21.1

3467-TCDF/2378-TCDF: 19

Quality Control (QC) Limits: ≤ 25%

Lab Sample ID	Sample Name	Lab File ID	Data Analyzed	Time Analyzed
SLD0330-ICV1	CS3H1	23042402	04/24/2023	14:09
SLD0330-RES1	ISCH1	23042403	04/24/2023	16:04
SLD0330-CCV1	CS3H2	23042412	04/24/2023	23:24
SLD0330-RES2	ISCH2	23042413	04/25/2023	00:17
SLD0330-CCV2	CS3H3	23042421	04/25/2023	06:52
SLD0330-RES3	ISCH3	23042422	04/25/2023	07:44
BLC0379-BLK1	Blank	23042423	04/25/2023	08:36
BLC0379-BS1	LCS	23042424	04/25/2023	09:25
BLC0379-SRM1	Reference	23042425	04/25/2023	10:14
BLC0379-DUP1	Duplicate	23042426	04/25/2023	11:03
23C0071-02	LDW23-SS1037	23042427	04/25/2023	11:52
SLD0330-CCV3	CS3H4	23042432	04/25/2023	15:57
SLD0330-RES4	ISCH4	23042433	04/25/2023	16:50

Analytical Resources, LLC
Analytical Chemists and Consultants

CDD/CDF CHROMATOGRAPHIC RESOLUTION SUMMARY

EPA 1613B

Lab Name: Analytical Resources, LLC
SDG: 23C0071
Instrument .ID: AUTOSPEC01
Lab File ID: 23042433
Date Analyzed: 04/25/23
Time Analyzed: 16:50
Lab Sample ID: SLD0330-RES4
Sequence: SLD0330

Percent Valley Determination for Column: RTX-Dioxin2 ID: 0.25 (mm)

1278-TCDD/2378-TCDD: 17

3467-TCDF/2378-TCDF: 17

Quality Control (QC) Limits: ≤ 25%

Lab Sample ID	Sample Name	Lab File ID	Data Analyzed	Time Analyzed
SLD0330-ICV1	CS3H1	23042402	04/24/2023	14:09
SLD0330-RES1	ISCH1	23042403	04/24/2023	16:04
SLD0330-CCV1	CS3H2	23042412	04/24/2023	23:24
SLD0330-RES2	ISCH2	23042413	04/25/2023	00:17
SLD0330-CCV2	CS3H3	23042421	04/25/2023	06:52
SLD0330-RES3	ISCH3	23042422	04/25/2023	07:44
BLC0379-BLK1	Blank	23042423	04/25/2023	08:36
BLC0379-BS1	LCS	23042424	04/25/2023	09:25
BLC0379-SRM1	Reference	23042425	04/25/2023	10:14
BLC0379-DUP1	Duplicate	23042426	04/25/2023	11:03
23C0071-02	LDW23-SS1037	23042427	04/25/2023	11:52
SLD0330-CCV3	CS3H4	23042432	04/25/2023	15:57
SLD0330-RES4	ISCH4	23042433	04/25/2023	16:50

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 1613B

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLC0045	Instrument:	AUTOSPEC01
		Calibration:	GC00015

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
CS3W1	SLC0045-ICV1	23030302	NA	03/03/23 09:51
ISCW1	SLC0045-RES1	23030303	NA	03/03/23 10:39
CSLCW	SLC0045-CAL1	23030304	NA	03/03/23 11:28
CS1CW	SLC0045-CAL2	23030305	NA	03/03/23 12:23
CS2CW	SLC0045-CAL3	23030306	NA	03/03/23 13:16
CS3CW	SLC0045-CAL4	23030307	NA	03/03/23 14:06
CS4CW	SLC0045-CAL5	23030308	NA	03/03/23 14:59
CS5CW	SLC0045-CAL6	23030309	NA	03/03/23 15:47
ICVCW	SLC0045-SCV1	23030310	NA	03/03/23 16:36
CS3V4	SLC0045-CCV1	23030311	NA	03/03/23 17:25
ISCV4	SLC0045-RES2	23030312	NA	03/03/23 18:18

ANALYSIS SEQUENCE

SLC0045

Instrument: AUTOSPEC01 HRGCMS Column ID: K2310
Calibration ID: GC00015 Tune File: FEB0923_1-5
EM Voltage: 350 Resolution check times : 9:51, 18:18

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	File ID	Analyst	Comments
SLC0045-ICV1	CS3W1	QC		1	K009821		03/03/2023 09:51	23030302	PK	
SLC0045-RES1	ISCW1	QC		2	L002084		03/03/2023 10:39	23030303	PK	
SLC0045-CAL1	CSLCW	QC		3	I005460		03/03/2023 11:28	23030304	PK	
SLC0045-CAL2	CS1CW	QC		4	I005456		03/03/2023 12:23	23030305	PK	
SLC0045-CAL3	CS2CW	QC		5	I005457		03/03/2023 13:16	23030306	PK	
SLC0045-CAL4	CS3CW	QC		6	K009821		03/03/2023 14:06	23030307	PK	
SLC0045-CAL5	CS4CW	QC		7	I005458		03/03/2023 14:59	23030308	PK	
SLC0045-CAL6	CS5CW	QC		8	I005459		03/03/2023 15:47	23030309	PK	
SLC0045-SCV1	ICVCW	QC		9	H008219		03/03/2023 16:36	23030310	PK	
SLC0045-CCV1	CS3V4	QC		10	K009821		03/03/2023 17:25	23030311	PK	
SLC0045-RES2	ISCV4	QC		11	L002084		03/03/2023 18:18	23030312	PK	

Dataset: T:\Autospec\Processed Data Batch\230303ICIH.qld
Last Altered: Monday, March 06, 2023 10:57:27 Pacific Standard Time
Printed: Monday, March 06, 2023 10:58:44 Pacific Standard Time

3/6/23 PK

Event	Details	Sample ID
Process Extract		
Process Integrate		
Process Calibrate		
Process Quantify		
Dataset Created		
Peak deleted	Sample:23030304, Compound:TD, RT:26.410	1
Peak deleted	Sample:23030304, Compound:OD, RT:44.990	1
Peak deleted	Sample:23030304, Compound:TF, RT:25.774	1
Pre modification peak	Sample:23030305, Compound:TF, RT:25.774	2
Peak modified	Sample:23030305, Compound:TF, RT:25.774	2
Pre modification peak	Sample:23030304, Compound:HPD, RT:40.261	1
Peak modified	Sample:23030304, Compound:HPD, RT:40.261	1
Peak deleted	Sample:23030308, Compound:PF, RT:32.328	5
Peak deleted	Sample:23030309, Compound:PF, RT:32.307	6
Peak deleted	Sample:23030309, Compound:HF, RT:33.220	6
Peak deleted	Sample:23030309, Compound:TD, RT:27.017	6
Peak deleted	Sample:23030309, Compound:PD, RT:31.995	6
Peak deleted	Sample:23030309, Compound:PD, RT:31.917	6
Peak deleted	Sample:23030308, Compound:HD, RT:34.000	5
Peak deleted	Sample:23030308, Compound:HPD, RT:39.225	5
Peak deleted	Sample:23030309, Compound:HPD, RT:39.214	6
Pre modification peak	Sample:23030305, Compound:OF, RT:45.237	2
Peak modified	Sample:23030305, Compound:OF, RT:45.237	2
Dataset Saved	Saved to 'T:\Autospec\Processed Data Batch\230303ICIH.qld'	

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 1613B

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLD0330	Instrument:	AUTOSPEC01
		Calibration:	GC00015

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
CS3H1	SLD0330-ICV1	23042402	NA	04/24/23 14:09
ISCH1	SLD0330-RES1	23042403	NA	04/24/23 16:04
CS3H2	SLD0330-CCV1	23042412	NA	04/24/23 23:24
ISCH2	SLD0330-RES2	23042413	NA	04/25/23 00:17
CS3H3	SLD0330-CCV2	23042421	NA	04/25/23 06:52
ISCH3	SLD0330-RES3	23042422	NA	04/25/23 07:44
Blank	BLC0379-BLK1	23042423	Solid	04/25/23 08:36
LCS	BLC0379-BS1	23042424	Solid	04/25/23 09:25
Reference	BLC0379-SRM1	23042425	Solid	04/25/23 10:14
LDW23-SS1037	BLC0379-DUP1	23042426	Solid	04/25/23 11:03
LDW23-SS1037	23C0071-02	23042427	Solid	04/25/23 11:52
CS3H4	SLD0330-CCV3	23042432	NA	04/25/23 15:57
ISCH4	SLD0330-RES4	23042433	NA	04/25/23 16:50

ANALYSIS SEQUENCE

SLD0330

Instrument: AUTOSPEC01 HRGCMS Column ID: L2312
Calibration ID: GC00015 Tune File: MAR2023_1-5
EM Voltage: 350 Resolution check times : 14:04, 00:17, 07:44, 16:50

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	File ID	Analyst	Comments
SLD0330-ICV1	CS3H1	QC		1	K009821		04/24/2023 14:09	23042402	PK	
SLD0330-RES1	ISCH1	QC		2	L002084		04/24/2023 16:04	23042403	PK	
BLD0089-SRM1	Reference	QC		3		K011414	04/24/2023 18:30	23042406	PK	
BLD0089-DUP1	Duplicate	QC		4		K011414	04/24/2023 19:19	23042407	PK	
23C0619-03	SED-08C:0-1	1613B Dioxin	C 01	5		K011414	04/24/2023 20:08	23042408	PK	
23C0619-05	SED-09C:0-1	1613B Dioxin	C 01	6		K011414	04/24/2023 20:57	23042409	PK	
23C0619-06	SED-09C:1-3	1613B Dioxin	C 01	7		K011414	04/24/2023 21:46	23042410	PK	
23C0619-07	SED-12C:0-1	1613B Dioxin	A 01	8		K011414	04/24/2023 22:35	23042411	PK	
SLD0330-CCV1	CS3H2	QC		9	K009821		04/24/2023 23:24	23042412	PK	
SLD0330-RES2	ISCH2	QC		10	L002084		04/25/2023 00:17	23042413	PK	
23C0619-08	SED-26C:0-1	1613B Dioxin	C 01	11		K011414	04/25/2023 01:09	23042414	PK	
23C0619-10	SED-25C:0-1	1613B Dioxin	C 01	12		K011414	04/25/2023 01:58	23042415	PK	
23C0619-12	SED-10C:0-1	1613B Dioxin	C 01	13		K011414	04/25/2023 02:47	23042416	PK	
23C0619-13	SED-10C:1-3	1613B Dioxin	C 01	14		K011414	04/25/2023 03:36	23042417	PK	
23C0619-14	SED-11C:0-1	1613B Dioxin	A 01	15		K011414	04/25/2023 04:24	23042418	PK	
23C0619-15	SED-11C:1-3	1613B Dioxin	A 01	16		K011414	04/25/2023 05:14	23042419	PK	
23D0008-01	LDW23-SS1816	1613B Dioxin	C 01	17		K011414	04/25/2023 06:02	23042420	PK	
SLD0330-CCV2	CS3H3	QC		18	K009821		04/25/2023 06:52	23042421	PK	
SLD0330-RES3	ISCH3	QC		19	K003933		04/25/2023 07:44	23042422	PK	
BLC0379-BLK1	Blank	QC		20		K011414	04/25/2023 08:36	23042423	PK	
BLC0379-BS1	LCS	QC		21		K011414	04/25/2023 09:25	23042424	PK	
BLC0379-SRM1	Reference	QC		22		K011414	04/25/2023 10:14	23042425	PK	

ANALYSIS SEQUENCE

SLD0330

Instrument: AUTOSPEC01 HRGCMS Column ID: L2312
Calibration ID: GC00015 Tune File: MAR2023_1-5
EM Voltage: 350 Resolution check times : 14:04, 00:17, 07:44, 16:50

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	File ID	Analyst	Comments
BLC0379-DUP1	Duplicate	QC		23		K011414	04/25/2023 11:03	23042426	PK	
23C0071-02	LDW23-SS1037	1613B Dioxin	A 06	24		K011414	04/25/2023 11:52	23042427	PK	
23C0109-03	LDW23-SS1105	1613B Dioxin	A 06	25		K011414	04/25/2023 12:41	23042428	PK	
23C0174-01	LDW23-DB01 - <2mm	8290 Dioxin	A 03	26		K011414	04/25/2023 13:30	23042429	PK	
23C0174-02	LDW23-DB02 - <2mm	8290 Dioxin	A 03	27		K011414	04/25/2023 14:19	23042430	PK	
23C0174-03	LDW23-DB03 - <2mm	8290 Dioxin	A 03	28		K011414	04/25/2023 15:08	23042431	PK	
SLD0330-CCV3	CS3H4	QC		29	K009821		04/25/2023 15:57	23042432	PK	
SLD0330-RES4	ISCH4	QC		30	K003933		04/25/2023 16:50	23042433	PK	

Dataset: T:\Autospec\Processed Data Batch\230424D1.qld
Last Altered: Tuesday, April 25, 2023 11:51:13 Pacific Daylight Time
Printed: Tuesday, April 25, 2023 11:54:33 Pacific Daylight Time 4/25/23 PK

Event	Details	Sample ID
Process Quantify		
Process Integrate		
Process Extract		
Pre modification peak	Sample:23042406, Compound:PF, RT:29.867	5
Pre modification peak	Sample:23042408, Compound:HF, RT:35.003	7
Pre modification peak	Sample:23042408, Compound:TD, RT:26.354	7
Pre modification peak	Sample:23042409, Compound:PF, RT:31.204	8
Pre modification peak	Sample:23042411, Compound:HD, RT:36.440	10
Pre modification peak	Sample:23042411, Compound:HD, RT:36.440	10
Pre modification peak	Sample:23042414, Compound:HF, RT:36.841	13
Pre modification peak	Sample:23042415, Compound:HF, RT:34.958	14
Pre modification peak	Sample:23042416, Compound:HF, RT:36.819	15
Pre modification peak	Sample:23042417, Compound:HF, RT:35.816	16
Pre modification peak	Sample:23042417, Compound:HF, RT:35.793	16
Pre modification peak	Sample:23042418, Compound:HF, RT:36.830	17
Pre modification peak	Sample:23042419, Compound:PD, RT:31.437	18
Pre modification peak	Sample:23042420, Compound:HF, RT:35.850	19
Pre modification peak	Sample:23042406, Compound:PF, RT:28.786	5
Pre modification peak	Sample:23042406, Compound:PF, RT:28.797	5
Pre modification peak	Sample:23042407, Compound:PF, RT:28.864	6
Pre modification peak	Sample:23042407, Compound:PF, RT:28.864	6
Pre modification peak	Sample:23042409, Compound:PF, RT:28.875	8
Pre modification peak	Sample:23042409, Compound:PF, RT:28.864	8
Pre modification peak	Sample:23042414, Compound:PF, RT:28.853	13
Pre modification peak	Sample:23042414, Compound:PF, RT:28.853	13
Pre modification peak	Sample:23042414, Compound:PF, RT:29.510	13
Pre modification peak	Sample:23042414, Compound:PF, RT:29.521	13
Pre modification peak	Sample:23042420, Compound:13C-12378-PeCDD, RT:31.438	19
Peak modified	Sample:23042406, Compound:PF, RT:29.867	5
Peak modified	Sample:23042408, Compound:HF, RT:35.003	7
Peak modified	Sample:23042408, Compound:TD, RT:26.354	7
Peak modified	Sample:23042409, Compound:PF, RT:31.204	8
Peak modified	Sample:23042411, Compound:HD, RT:36.440	10
Peak modified	Sample:23042411, Compound:HD, RT:36.440	10
Peak modified	Sample:23042414, Compound:HF, RT:36.841	13
Peak modified	Sample:23042415, Compound:HF, RT:34.958	14
Peak modified	Sample:23042416, Compound:HF, RT:36.819	15
Peak modified	Sample:23042417, Compound:HF, RT:35.816	16
Peak modified	Sample:23042417, Compound:HF, RT:35.793	16
Peak modified	Sample:23042418, Compound:HF, RT:36.830	17
Peak modified	Sample:23042419, Compound:PD, RT:31.437	18
Peak modified	Sample:23042420, Compound:HF, RT:35.850	19
Peak modified	Sample:23042406, Compound:PF, RT:28.786	5
Peak modified	Sample:23042406, Compound:PF, RT:28.797	5
Peak modified	Sample:23042407, Compound:PF, RT:28.864	6
Peak modified	Sample:23042407, Compound:PF, RT:28.864	6
Peak modified	Sample:23042409, Compound:PF, RT:28.875	8
Peak modified	Sample:23042409, Compound:PF, RT:28.864	8
Peak modified	Sample:23042414, Compound:PF, RT:28.853	13
Peak modified	Sample:23042414, Compound:PF, RT:28.853	13
Peak modified	Sample:23042414, Compound:PF, RT:29.510	13
Peak modified	Sample:23042414, Compound:PF, RT:29.521	13
Peak modified	Sample:23042420, Compound:13C-12378-PeCDD, RT:31.438	19
Peak deleted	Sample:23042411, Compound:TF, RT:25.732	10
Peak deleted	Sample:23042411, Compound:PF, RT:31.360	10

Event	Details	Sample ID
Peak deleted	Sample:23042417, Compound:TD, RT:26.311	16
Peak deleted	Sample:23042419, Compound:PF, RT:29.844	18
Peak deleted	Sample:23042419, Compound:PF, RT:31.192	18
Peak deleted	Sample:23042419, Compound:TD, RT:26.339	18
Peak deleted	Sample:23042406, Compound:TF, RT:24.235	5
Peak deleted	Sample:23042406, Compound:PP, RT:27.031	5
Peak deleted	Sample:23042407, Compound:TF, RT:22.243	6
Peak deleted	Sample:23042407, Compound:TF, RT:25.237	6
Peak deleted	Sample:23042407, Compound:TF, RT:25.054	6
Peak deleted	Sample:23042409, Compound:HD, RT:36.919	8
Peak deleted	Sample:23042411, Compound:TF, RT:25.944	10
Peak deleted	Sample:23042414, Compound:TF, RT:22.766	13
Peak deleted	Sample:23042414, Compound:TF, RT:27.639	13
Peak deleted	Sample:23042414, Compound:HD, RT:36.919	13
Peak deleted	Sample:23042415, Compound:TF, RT:22.879	14
Peak deleted	Sample:23042415, Compound:TF, RT:25.930	14
Peak deleted	Sample:23042415, Compound:TF, RT:25.817	14
Peak deleted	Sample:23042415, Compound:TF, RT:25.209	14
Peak deleted	Sample:23042415, Compound:TF, RT:26.622	14
Peak deleted	Sample:23042415, Compound:TF, RT:23.542	14
Peak deleted	Sample:23042415, Compound:TF, RT:23.444	14
Peak deleted	Sample:23042415, Compound:PF, RT:31.928	14
Peak deleted	Sample:23042415, Compound:PF, RT:31.037	14
Peak deleted	Sample:23042415, Compound:TD, RT:25.690	14
Peak deleted	Sample:23042416, Compound:PF, RT:28.920	15
Peak deleted	Sample:23042416, Compound:PF, RT:29.387	15
Peak deleted	Sample:23042416, Compound:TD, RT:25.223	15
Peak deleted	Sample:23042416, Compound:PD, RT:30.379	15
Peak deleted	Sample:23042416, Compound:HD, RT:36.908	15
Peak deleted	Sample:23042417, Compound:PF, RT:29.265	16
Peak deleted	Sample:23042418, Compound:TF, RT:22.907	17
Peak deleted	Sample:23042418, Compound:TF, RT:27.314	17
Peak deleted	Sample:23042418, Compound:TF, RT:27.187	17
Peak deleted	Sample:23042418, Compound:TF, RT:27.102	17
Peak deleted	Sample:23042418, Compound:HPD, RT:39.404	17
Peak deleted	Sample:23042419, Compound:PF, RT:30.034	18
Peak deleted	Sample:23042419, Compound:HPD, RT:40.361	18
Peak deleted	Sample:23042420, Compound:TF, RT:24.235	19
Peak deleted	Sample:23042420, Compound:PD, RT:31.549	19
Peak added	Sample:23042405, Compound:13C-1234-TCDD, RT:25.506	4
Peak added	Sample:23042405, Compound:13C-1234-TCDD, RT:25.506	4
Peak added	Sample:23042416, Compound:PF, RT:29.855	15
Peak added	Sample:23042416, Compound:PF, RT:29.855	15
Peak added	Sample:23042420, Compound:HF, RT:35.827	19
Peak added	Sample:23042420, Compound:HF, RT:35.850	19
Peak added	Sample:23042406, Compound:PF, RT:28.441	5
Peak added	Sample:23042406, Compound:PF, RT:28.441	5
Peak added	Sample:23042406, Compound:TD, RT:24.461	5
Peak added	Sample:23042406, Compound:TD, RT:24.461	5
Peak added	Sample:23042406, Compound:PD, RT:29.855	5
Peak added	Sample:23042406, Compound:PD, RT:29.855	5
Peak added	Sample:23042407, Compound:PD, RT:29.276	6
Peak added	Sample:23042407, Compound:PD, RT:28.819	6
Peak added	Sample:23042407, Compound:PD, RT:29.276	6
Peak added	Sample:23042407, Compound:PD, RT:28.819	6

Dataset: T:\Autospec\Processed Data Batch\230424D1.qld
Last Altered: Tuesday, April 25, 2023 11:51:13 Pacific Daylight Time
Printed: Tuesday, April 25, 2023 11:54:33 Pacific Daylight Time

Event	Details	Sample ID
Peak added	Sample:23042415, Compound:PF, RT:28.775	14
Peak added	Sample:23042415, Compound:PF, RT:28.775	14
Peak added	Sample:23042416, Compound:PD, RT:28.786	15
Peak added	Sample:23042416, Compound:PD, RT:28.752	15
Peak added	Sample:23042420, Compound:HF, RT:35.816	19
Peak added	Sample:23042420, Compound:HF, RT:35.805	19
Dataset Saved	Saved to 'T:\Autospec\Processed Data Batch\230424D1.qld'	
Dataset Saved	Saved to 'T:\Autospec\Processed Data Batch\230424D1.qld'	
Dataset Saved	Saved to 'T:\Autospec\Processed Data Batch\230424D1.qld'	
Dataset Saved	Saved to 'T:\Autospec\Processed Data Batch\230424D1.qld'	
Dataset Created		

Dataset: T:\Autospec\Processed Data Batch\230424D2.qld
Last Altered: Tuesday, April 25, 2023 14:48:36 Pacific Daylight Time
Printed: Tuesday, April 25, 2023 14:49:25 Pacific Daylight Time 4/25/23 PK

Event	Details	Sample ID
Process Quantify		
Process Integrate		
Process Extract		
Pre modification peak	Sample:23042423, Compound:OD, RT:44.878	1
Pre modification peak	Sample:23042423, Compound:OD, RT:44.860	1
Pre modification peak	Sample:23042425, Compound:TD, RT:26.353	3
Pre modification peak	Sample:23042425, Compound:TF, RT:25.689	3
Pre modification peak	Sample:23042426, Compound:HF, RT:36.830	4
Pre modification peak	Sample:23042426, Compound:HD, RT:36.451	4
Pre modification peak	Sample:23042427, Compound:HF, RT:36.818	5
Pre modification peak	Sample:23042427, Compound:TD, RT:26.339	5
Pre modification peak	Sample:23042427, Compound:PD, RT:31.426	5
Pre modification peak	Sample:23042428, Compound:HF, RT:36.819	6
Pre modification peak	Sample:23042428, Compound:TD, RT:26.339	6
Pre modification peak	Sample:23042428, Compound:HD, RT:35.961	6
Pre modification peak	Sample:23042429, Compound:HF, RT:36.841	7
Pre modification peak	Sample:23042429, Compound:TD, RT:26.353	7
Pre modification peak	Sample:23042429, Compound:HD, RT:36.083	7
Pre modification peak	Sample:23042429, Compound:HD, RT:35.972	7
Pre modification peak	Sample:23042425, Compound:PF, RT:30.914	3
Pre modification peak	Sample:23042426, Compound:TF, RT:25.704	4
Pre modification peak	Sample:23042427, Compound:PF, RT:28.775	5
Pre modification peak	Sample:23042428, Compound:PD, RT:28.786	6
Peak modified	Sample:23042423, Compound:OD, RT:44.878	1
Peak modified	Sample:23042423, Compound:OD, RT:44.860	1
Peak modified	Sample:23042425, Compound:TD, RT:26.353	3
Peak modified	Sample:23042425, Compound:TF, RT:25.689	3
Peak modified	Sample:23042425, Compound:TF, RT:25.689	3
Peak modified	Sample:23042426, Compound:HF, RT:36.830	4
Peak modified	Sample:23042426, Compound:HD, RT:36.451	4
Peak modified	Sample:23042427, Compound:HF, RT:36.818	5
Peak modified	Sample:23042427, Compound:TD, RT:26.339	5
Peak modified	Sample:23042427, Compound:PD, RT:31.426	5
Peak modified	Sample:23042428, Compound:HF, RT:36.819	6
Peak modified	Sample:23042428, Compound:TD, RT:26.339	6
Peak modified	Sample:23042428, Compound:HD, RT:35.961	6
Peak modified	Sample:23042429, Compound:HF, RT:36.841	7
Peak modified	Sample:23042429, Compound:TD, RT:26.353	7
Peak modified	Sample:23042429, Compound:HD, RT:36.083	7
Peak modified	Sample:23042429, Compound:HD, RT:36.083	7
Peak modified	Sample:23042429, Compound:HD, RT:35.972	7
Peak modified	Sample:23042429, Compound:HD, RT:35.972	7
Peak modified	Sample:23042425, Compound:PF, RT:30.914	3
Peak modified	Sample:23042427, Compound:TD, RT:26.339	5
Peak modified	Sample:23042426, Compound:TF, RT:25.704	4
Peak modified	Sample:23042427, Compound:PF, RT:28.775	5
Peak modified	Sample:23042428, Compound:PD, RT:28.786	6
Peak deleted	Sample:23042423, Compound:TF, RT:25.675	1
Peak deleted	Sample:23042423, Compound:PF, RT:29.833	1
Peak deleted	Sample:23042423, Compound:PF, RT:31.170	1
Peak deleted	Sample:23042423, Compound:HPF, RT:38.668	1
Peak deleted	Sample:23042426, Compound:TD, RT:26.339	4
Peak deleted	Sample:23042423, Compound:TF, RT:25.831	1
Peak deleted	Sample:23042424, Compound:HD, RT:36.863	2
Peak deleted	Sample:23042425, Compound:TF, RT:26.170	3

Dataset: T:\Autospec\Processed Data Batch\230424D2.qld
Last Altered: Tuesday, April 25, 2023 14:48:36 Pacific Daylight Time
Printed: Tuesday, April 25, 2023 14:49:25 Pacific Daylight Time

Event	Details	Sample ID
Peak deleted	Sample:23042425, Compound:HD, RT:33.688	3
Peak deleted	Sample:23042426, Compound:TD, RT:25.986	4
Peak deleted	Sample:23042426, Compound:HD, RT:33.699	4
Peak deleted	Sample:23042427, Compound:HPF, RT:39.570	5
Peak deleted	Sample:23042428, Compound:TF, RT:26.382	6
Peak deleted	Sample:23042428, Compound:TF, RT:27.144	6
Peak deleted	Sample:23042428, Compound:TF, RT:22.356	6
Peak deleted	Sample:23042428, Compound:HPF, RT:39.537	6
Peak deleted	Sample:23042428, Compound:PD, RT:31.671	6
Peak deleted	Sample:23042428, Compound:HD, RT:33.688	6
Peak deleted	Sample:23042428, Compound:HD, RT:36.908	6
Peak deleted	Sample:23042429, Compound:TD, RT:25.223	7
Peak deleted	Sample:23042429, Compound:HD, RT:36.919	7
Peak deleted	Sample:23042429, Compound:HD, RT:33.699	7
Peak deleted	Sample:23042429, Compound:HPD, RT:40.373	7
Peak added	Sample:23042425, Compound:HF, RT:35.838	3
Peak added	Sample:23042425, Compound:HF, RT:35.838	3
Peak added	Sample:23042427, Compound:TF, RT:25.463	5
Peak added	Sample:23042427, Compound:TF, RT:25.463	5
Peak added	Sample:23042427, Compound:PD, RT:28.764	5
Peak added	Sample:23042427, Compound:PD, RT:28.741	5
Peak added	Sample:23042426, Compound:PF, RT:28.797	4
Peak added	Sample:23042426, Compound:PF, RT:28.797	4
Peak added	Sample:23042426, Compound:HPF, RT:40.930	4
Peak added	Sample:23042426, Compound:HPF, RT:40.930	4
Peak added	Sample:23042426, Compound:PD, RT:28.764	4
Peak added	Sample:23042426, Compound:PD, RT:28.764	4
Peak added	Sample:23042428, Compound:PD, RT:30.067	6
Peak added	Sample:23042428, Compound:PD, RT:30.067	6
Peak added	Sample:23042428, Compound:PD, RT:28.786	6
Peak added	Sample:23042428, Compound:PD, RT:28.775	6
Peak added	Sample:23042429, Compound:PF, RT:28.797	7
Peak added	Sample:23042429, Compound:PF, RT:28.808	7
Peak added	Sample:23042429, Compound:PD, RT:30.078	7
Peak added	Sample:23042429, Compound:PD, RT:30.078	7
Dataset Saved	Saved to 'T:\Autospec\Processed Data Batch\230424D2.qld'	
Dataset Saved	Saved to 'T:\Autospec\Processed Data Batch\230424D2.qld'	
Dataset Created		

Dataset: T:\Autospec\Processed Data Batch\230424D3.qld
Last Altered: Wednesday, April 26, 2023 10:40:47 Pacific Daylight Time
Printed: Wednesday, April 26, 2023 10:41:57 Pacific Daylight Time 4/26/23 pk

Event	Details	Sample ID
Process Quantify		
Process Integrate		
Process Extract		
Pre modification peak	Sample:23042431, Compound:13C-12378-PeCDD, RT:31.437	2
Pre modification peak	Sample:23042431, Compound:13C-12378-PeCDD, RT:31.437	2
Peak modified	Sample:23042431, Compound:13C-12378-PeCDD, RT:31.437	2
Peak modified	Sample:23042431, Compound:13C-12378-PeCDD, RT:31.437	2
Peak modified	Sample:23042431, Compound:13C-12378-PeCDD, RT:31.437	2
Peak deleted	Sample:23042431, Compound:TF, RT:27.328	2
Peak deleted	Sample:23042431, Compound:HD, RT:36.907	2
Peak deleted	Sample:23042431, Compound:HD, RT:33.688	2
Peak added	Sample:23042430, Compound:PF, RT:29.098	1
Peak added	Sample:23042430, Compound:PF, RT:29.098	1
Peak added	Sample:23042431, Compound:PD, RT:30.212	2
Peak added	Sample:23042431, Compound:PD, RT:30.212	2
Peak added	Sample:23042431, Compound:PD, RT:30.067	2
Peak added	Sample:23042431, Compound:PD, RT:30.067	2
Peak added	Sample:23042431, Compound:PD, RT:30.379	2
Peak added	Sample:23042431, Compound:PD, RT:30.379	2
Dataset Saved	Saved to 'T:\Autospec\Processed Data Batch\230424D3.qld'	
Dataset Created		

SURROGATE RECOVERY AND RT SUMMARY

EPA 1613B

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLC0045	Instrument:	AUTOSPEC01
Sample ID:	SLC0045-ICV1	Calibration:	GC00015
File ID:	23030302	Analyzed:	03/03/23 09:51

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	100.00	94.0	71 - 129	25.7745	25.76487	0.0096	N/A	
13C12-2,3,7,8-TCDD	100.00	102	82 - 118	26.4242	26.40287	0.0213	N/A	
13C12-1,2,3,7,8-PeCDF	100.00	92.2	76 - 124	29.9337	29.92235	0.0114	N/A	
13C12-2,3,4,7,8-PeCDF	100.00	87.6	77 - 123	31.2707	31.2611	0.0096	N/A	
13C12-1,2,3,7,8-PeCDD	100.00	84.3	62 - 138	31.5268	31.5192	0.0076	N/A	
13C12-1,2,3,4,7,8-HxCDF	100.00	84.0	76 - 124	34.8915	34.88393	0.0076	N/A	
13C12-1,2,3,6,7,8-HxCDF	100.00	74.6	70 - 130	35.0363	35.02318	0.0131	N/A	
13C12-2,3,4,6,7,8-HxCDF	100.00	88.7	73 - 127	35.8942	35.88653	0.0077	N/A	
13C12-1,2,3,7,8,9-HxCDF	100.00	99.9	74 - 126	36.9303	36.91718	0.0131	N/A	
13C12-1,2,3,4,7,8-HxCDD	100.00	93.5	85 - 115	36.0167	36.00728	0.0094	N/A	
13C12-1,2,3,6,7,8-HxCDD	100.00	86.9	85 - 115	36.1393	36.12053	0.0188	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	100.00	95.3	78 - 122	38.7685	38.7593	0.0092	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	100.00	98.7	77 - 123	41.008	40.99867	0.0093	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	100.00	105	72 - 128	40.2615	40.25773	0.0038	N/A	
13C12-OCDD	200.00	107	48 - 152	44.9993	44.98705	0.0122	N/A	
37Cl4-2,3,7,8-TCDD	10.000	90.5	0 - 200	26.4383	26.42402	0.0143	N/A	

* Values outside of QC limits

SURROGATE RECOVERY AND RT SUMMARY

EPA 1613B

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLC0045	Instrument:	AUTOSPEC01
Sample ID:	SLC0045-SCV1	Calibration:	GC00015
File ID:	23030310	Analyzed:	03/03/23 16:36

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	100.00	96.9	0 - 200	25.7602	25.76487	-0.0047	N/A	
13C12-2,3,7,8-TCDD	100.00	96.6	0 - 200	26.3958	26.40287	-0.0071	N/A	
13C12-1,2,3,7,8-PeCDF	100.00	73.2	0 - 200	29.9225	29.92235	0.0001	N/A	
13C12-2,3,4,7,8-PeCDF	100.00	75.9	0 - 200	31.2593	31.2611	-0.0018	N/A	
13C12-1,2,3,7,8-PeCDD	100.00	76.6	0 - 200	31.5155	31.5192	-0.0037	N/A	
13C12-1,2,3,4,7,8-HxCDF	100.00	93.0	0 - 200	34.8802	34.88393	-0.0037	N/A	
13C12-1,2,3,6,7,8-HxCDF	100.00	98.0	0 - 200	35.014	35.02318	-0.0092	N/A	
13C12-2,3,4,6,7,8-HxCDF	100.00	93.4	0 - 200	35.8828	35.88653	-0.0037	N/A	
13C12-1,2,3,7,8,9-HxCDF	100.00	97.9	0 - 200	36.9078	36.91718	-0.0094	N/A	
13C12-1,2,3,4,7,8-HxCDD	100.00	95.9	0 - 200	36.0053	36.00728	-0.0020	N/A	
13C12-1,2,3,6,7,8-HxCDD	100.00	97.7	0 - 200	36.1168	36.12053	-0.0037	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	100.00	102	0 - 200	38.7573	38.7593	-0.0020	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	100.00	104	0 - 200	40.9967	40.99867	-0.0020	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	100.00	102	0 - 200	40.2502	40.25773	-0.0075	N/A	
13C12-OCDD	200.00	80.8	0 - 200	44.9807	44.98705	-0.0064	N/A	
37Cl4-2,3,7,8-TCDD	10.000	87.1	0 - 200	26.4242	26.42402	0.0002	N/A	

* Values outside of QC limits

SURROGATE RECOVERY AND RT SUMMARY

EPA 1613B

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLC0045	Instrument:	AUTOSPEC01
Sample ID:	SLC0045-CCV1	Calibration:	GC00015
File ID:	23030311	Analyzed:	03/03/23 17:25

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	100.00	89.4	71 - 129	25.7602	25.76487	-0.0047	N/A	
13C12-2,3,7,8-TCDD	100.00	86.0	82 - 118	26.3958	26.40287	-0.0071	N/A	
13C12-1,2,3,7,8-PeCDF	100.00	92.6	76 - 124	29.9225	29.92235	0.0001	N/A	
13C12-2,3,4,7,8-PeCDF	100.00	91.6	77 - 123	31.2593	31.2611	-0.0018	N/A	
13C12-1,2,3,7,8-PeCDD	100.00	90.8	62 - 138	31.5157	31.5192	-0.0035	N/A	
13C12-1,2,3,4,7,8-HxCDF	100.00	95.2	76 - 124	34.8805	34.88393	-0.0034	N/A	
13C12-1,2,3,6,7,8-HxCDF	100.00	91.1	70 - 130	35.0253	35.02318	0.0021	N/A	
13C12-2,3,4,6,7,8-HxCDF	100.00	96.9	73 - 127	35.883	35.88653	-0.0035	N/A	
13C12-1,2,3,7,8,9-HxCDF	100.00	101	74 - 126	36.9193	36.91718	0.0021	N/A	
13C12-1,2,3,4,7,8-HxCDD	100.00	97.6	85 - 115	36.0057	36.00728	-0.0016	N/A	
13C12-1,2,3,6,7,8-HxCDD	100.00	98.4	85 - 115	36.117	36.12053	-0.0035	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	100.00	102	78 - 122	38.7577	38.7593	-0.0016	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	100.00	84.3	77 - 123	40.997	40.99867	-0.0017	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	100.00	92.0	72 - 128	40.2617	40.25773	0.0040	N/A	
13C12-OCDD	200.00	85.1	48 - 152	44.9903	44.98705	0.0032	N/A	
37Cl4-2,3,7,8-TCDD	10.000	75.4	0 - 200	26.424	26.42402	0.0000	N/A	

* Values outside of QC limits

SURROGATE RECOVERY AND RT SUMMARY

EPA 1613B

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLD0330	Instrument:	AUTOSPEC01
Sample ID:	SLD0330-ICV1	Calibration:	GC00015
File ID:	23042402	Analyzed:	04/24/23 14:09

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	100.00	95.5	71 - 129	25.7177	25.76487	-0.0472	N/A	
13C12-2,3,7,8-TCDD	100.00	95.8	82 - 118	26.3533	26.40287	-0.0496	N/A	
13C12-1,2,3,7,8-PeCDF	100.00	104	76 - 124	29.8553	29.92235	-0.0671	N/A	
13C12-2,3,4,7,8-PeCDF	100.00	102	77 - 123	31.2033	31.2611	-0.0578	N/A	
13C12-1,2,3,7,8-PeCDD	100.00	85.1	62 - 138	31.4595	31.5192	-0.0597	N/A	
13C12-1,2,3,4,7,8-HxCDF	100.00	93.2	76 - 124	34.813	34.88393	-0.0709	N/A	
13C12-1,2,3,6,7,8-HxCDF	100.00	87.5	70 - 130	34.958	35.02318	-0.0652	N/A	
13C12-2,3,4,6,7,8-HxCDF	100.00	92.9	73 - 127	35.8157	35.88653	-0.0708	N/A	
13C12-1,2,3,7,8,9-HxCDF	100.00	92.4	74 - 126	36.8518	36.91718	-0.0654	N/A	
13C12-1,2,3,4,7,8-HxCDD	100.00	97.4	85 - 115	35.9382	36.00728	-0.0691	N/A	
13C12-1,2,3,6,7,8-HxCDD	100.00	91.0	85 - 115	36.0497	36.12053	-0.0708	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	100.00	117	78 - 122	38.6902	38.7593	-0.0691	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	100.00	105	77 - 123	40.9183	40.99867	-0.0804	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	100.00	92.0	72 - 128	40.183	40.25773	-0.0747	N/A	
13C12-OCDD	200.00	101	48 - 152	44.8778	44.98705	-0.1093	N/A	
37Cl4-2,3,7,8-TCDD	10.000	85.1	0 - 200	26.3675	26.42402	-0.0565	N/A	

* Values outside of QC limits

SURROGATE RECOVERY AND RT SUMMARY

EPA 1613B

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLD0330	Instrument:	AUTOSPEC01
Sample ID:	SLD0330-CCV1	Calibration:	GC00015
File ID:	23042412	Analyzed:	04/24/23 23:24

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	100.00	88.5	71 - 129	25.6895	25.76487	-0.0754	N/A	
13C12-2,3,7,8-TCDD	100.00	95.3	82 - 118	26.3252	26.40287	-0.0777	N/A	
13C12-1,2,3,7,8-PeCDF	100.00	101	76 - 124	29.8332	29.92235	-0.0892	N/A	
13C12-2,3,4,7,8-PeCDF	100.00	99.1	77 - 123	31.17	31.2611	-0.0911	N/A	
13C12-1,2,3,7,8-PeCDD	100.00	77.9	62 - 138	31.4262	31.5192	-0.0930	N/A	
13C12-1,2,3,4,7,8-HxCDF	100.00	95.7	76 - 124	34.7908	34.88393	-0.0931	N/A	
13C12-1,2,3,6,7,8-HxCDF	100.00	88.8	70 - 130	34.9357	35.02318	-0.0875	N/A	
13C12-2,3,4,6,7,8-HxCDF	100.00	96.2	73 - 127	35.8047	35.88653	-0.0818	N/A	
13C12-1,2,3,7,8,9-HxCDF	100.00	89.8	74 - 126	36.8297	36.91718	-0.0875	N/A	
13C12-1,2,3,4,7,8-HxCDD	100.00	98.5	85 - 115	35.916	36.00728	-0.0913	N/A	
13C12-1,2,3,6,7,8-HxCDD	100.00	90.4	85 - 115	36.0387	36.12053	-0.0818	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	100.00	117	78 - 122	38.668	38.7593	-0.0913	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	100.00	98.2	77 - 123	40.9073	40.99867	-0.0914	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	100.00	92.2	72 - 128	40.161	40.25773	-0.0967	N/A	
13C12-OCDD	200.00	104	48 - 152	44.8688	44.98705	-0.1183	N/A	
37Cl4-2,3,7,8-TCDD	10.000	81.2	0 - 200	26.3392	26.42402	-0.0848	N/A	

* Values outside of QC limits

SURROGATE RECOVERY AND RT SUMMARY

EPA 1613B

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLD0330	Instrument:	AUTOSPEC01
Sample ID:	SLD0330-CCV2	Calibration:	GC00015
File ID:	23042421	Analyzed:	04/25/23 06:52

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	100.00	88.1	71 - 129	25.6752	25.76487	-0.0897	N/A	
13C12-2,3,7,8-TCDD	100.00	98.9	82 - 118	26.3108	26.40287	-0.0921	N/A	
13C12-1,2,3,7,8-PeCDF	100.00	103	76 - 124	29.8218	29.92235	-0.1006	N/A	
13C12-2,3,4,7,8-PeCDF	100.00	108	77 - 123	31.17	31.2611	-0.0911	N/A	
13C12-1,2,3,7,8-PeCDD	100.00	86.8	62 - 138	31.415	31.5192	-0.1042	N/A	
13C12-1,2,3,4,7,8-HxCDF	100.00	92.3	76 - 124	34.7908	34.88393	-0.0931	N/A	
13C12-1,2,3,6,7,8-HxCDF	100.00	83.8	70 - 130	34.9245	35.02318	-0.0987	N/A	
13C12-2,3,4,6,7,8-HxCDF	100.00	94.3	73 - 127	35.7933	35.88653	-0.0932	N/A	
13C12-1,2,3,7,8,9-HxCDF	100.00	91.8	74 - 126	36.8295	36.91718	-0.0877	N/A	
13C12-1,2,3,4,7,8-HxCDD	100.00	97.3	85 - 115	35.9158	36.00728	-0.0915	N/A	
13C12-1,2,3,6,7,8-HxCDD	100.00	87.9	85 - 115	36.0273	36.12053	-0.0932	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	100.00	111	78 - 122	38.6678	38.7593	-0.0915	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	100.00	98.9	77 - 123	40.9073	40.99867	-0.0914	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	100.00	94.8	72 - 128	40.1607	40.25773	-0.0970	N/A	
13C12-OCDD	200.00	101	48 - 152	44.8597	44.98705	-0.1274	N/A	
37Cl4-2,3,7,8-TCDD	10.000	82.9	0 - 200	26.3392	26.42402	-0.0848	N/A	

* Values outside of QC limits

SURROGATE RECOVERY AND RT SUMMARY

EPA 1613B

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLD0330	Instrument:	AUTOSPEC01
Sample ID:	BLC0379-BLK1	Calibration:	GC00015
File ID:	23042423	Analyzed:	04/25/23 08:36

Surrogate Compound	Spike Level ng/kg wet	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	199.80	56.9	24 - 169	25.6753	25.76487	-0.0896	N/A	
13C12-2,3,7,8-TCDD	199.80	67.6	25 - 164	26.311	26.40287	-0.0919	N/A	
13C12-1,2,3,7,8-PeCDF	199.80	90.1	24 - 185	29.822	29.92235	-0.1004	N/A	
13C12-2,3,4,7,8-PeCDF	199.80	88.8	21 - 178	31.159	31.2611	-0.1021	N/A	
13C12-1,2,3,7,8-PeCDD	199.80	68.3	25 - 181	31.4153	31.5192	-0.1039	N/A	
13C12-1,2,3,4,7,8-HxCDF	199.80	88.9	26 - 152	34.78	34.88393	-0.1039	N/A	
13C12-1,2,3,6,7,8-HxCDF	199.80	81.5	26 - 123	34.9248	35.02318	-0.0984	N/A	
13C12-2,3,4,6,7,8-HxCDF	199.80	88.4	28 - 136	35.7827	35.88653	-0.1038	N/A	
13C12-1,2,3,7,8,9-HxCDF	199.80	85.4	29 - 147	36.8188	36.91718	-0.0984	N/A	
13C12-1,2,3,4,7,8-HxCDD	199.80	89.2	32 - 141	35.9052	36.00728	-0.1021	N/A	
13C12-1,2,3,6,7,8-HxCDD	199.80	82.6	28 - 130	36.0167	36.12053	-0.1038	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	199.80	103	28 - 143	38.6572	38.7593	-0.1021	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	199.80	90.8	26 - 138	40.8965	40.99867	-0.1022	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	199.80	81.6	23 - 140	40.15	40.25773	-0.1077	N/A	
13C12-OCDD	399.60	85.1	17 - 157	44.851	44.98705	-0.1361	N/A	
37Cl4-2,3,7,8-TCDD	79.920	62.7	35 - 197	26.3392	26.42402	-0.0848	N/A	

* Values outside of QC limits

SURROGATE RECOVERY AND RT SUMMARY

EPA 1613B

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLD0330	Instrument:	AUTOSPEC01
Sample ID:	BLC0379-BS1	Calibration:	GC00015
File ID:	23042424	Analyzed:	04/25/23 09:25

Surrogate Compound	Spike Level ng/kg wet	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	199.80	33.8	24 - 169	25.6753	25.76487	-0.0896	N/A	
13C12-2,3,7,8-TCDD	199.80	42.5	25 - 164	26.325	26.40287	-0.0779	N/A	
13C12-1,2,3,7,8-PeCDF	199.80	73.8	24 - 185	29.833	29.92235	-0.0894	N/A	
13C12-2,3,4,7,8-PeCDF	199.80	73.0	21 - 178	31.1698	31.2611	-0.0913	N/A	
13C12-1,2,3,7,8-PeCDD	199.80	57.7	25 - 181	31.4262	31.5192	-0.0930	N/A	
13C12-1,2,3,4,7,8-HxCDF	199.80	75.1	26 - 152	34.7907	34.88393	-0.0932	N/A	
13C12-1,2,3,6,7,8-HxCDF	199.80	72.2	26 - 123	34.9245	35.02318	-0.0987	N/A	
13C12-2,3,4,6,7,8-HxCDF	199.80	83.7	28 - 136	35.7933	35.88653	-0.0932	N/A	
13C12-1,2,3,7,8,9-HxCDF	199.80	81.0	29 - 147	36.8295	36.91718	-0.0877	N/A	
13C12-1,2,3,4,7,8-HxCDD	199.80	78.0	32 - 141	35.9158	36.00728	-0.0915	N/A	
13C12-1,2,3,6,7,8-HxCDD	199.80	69.0	28 - 130	36.0273	36.12053	-0.0932	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	199.80	99.8	28 - 143	38.6677	38.7593	-0.0916	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	199.80	88.9	26 - 138	40.8958	40.99867	-0.1029	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	199.80	80.6	23 - 140	40.1605	40.25773	-0.0972	N/A	
13C12-OCDD	399.60	84.6	17 - 157	44.8593	44.98705	-0.1278	N/A	
37Cl4-2,3,7,8-TCDD	79.920	40.7	35 - 197	26.3392	26.42402	-0.0848	N/A	

* Values outside of QC limits

SURROGATE RECOVERY AND RT SUMMARY

EPA 1613B

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLD0330	Instrument:	AUTOSPEC01
Sample ID:	BLC0379-SRM1	Calibration:	GC00015
File ID:	23042425	Analyzed:	04/25/23 10:14

Surrogate Compound	Spike Level ng/kg wet	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	200.00	25.8	24 - 169	25.6753	25.76487	-0.0896	N/A	
13C12-2,3,7,8-TCDD	200.00	31.1	25 - 164	26.325	26.40287	-0.0779	N/A	
13C12-1,2,3,7,8-PeCDF	200.00	63.7	24 - 185	29.833	29.92235	-0.0894	N/A	
13C12-2,3,4,7,8-PeCDF	200.00	63.1	21 - 178	31.17	31.2611	-0.0911	N/A	
13C12-1,2,3,7,8-PeCDD	200.00	49.9	25 - 181	31.4262	31.5192	-0.0930	N/A	
13C12-1,2,3,4,7,8-HxCDF	200.00	64.5	26 - 152	34.802	34.88393	-0.0819	N/A	
13C12-1,2,3,6,7,8-HxCDF	200.00	61.7	26 - 123	34.9468	35.02318	-0.0764	N/A	
13C12-2,3,4,6,7,8-HxCDF	200.00	82.5	28 - 136	35.8268	35.88653	-0.0597	N/A	
13C12-1,2,3,7,8,9-HxCDF	200.00	76.2	29 - 147	36.8408	36.91718	-0.0764	N/A	
13C12-1,2,3,4,7,8-HxCDD	200.00	65.1	32 - 141	35.9495	36.00728	-0.0578	N/A	
13C12-1,2,3,6,7,8-HxCDD	200.00	60.8	28 - 130	36.061	36.12053	-0.0595	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	200.00	94.6	28 - 143	38.6792	38.7593	-0.0801	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	200.00	89.3	26 - 138	40.9073	40.99867	-0.0914	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	200.00	79.3	23 - 140	40.172	40.25773	-0.0857	N/A	
13C12-OCDD	400.00	82.8	17 - 157	44.8872	44.98705	-0.0999	N/A	
37Cl4-2,3,7,8-TCDD	80.000	29.0	35 - 197	26.3392	26.42402	-0.0848	N/A	*

* Values outside of QC limits

SURROGATE RECOVERY AND RT SUMMARY

EPA 1613B

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLD0330	Instrument:	AUTOSPEC01
Sample ID:	BLC0379-DUP1	Calibration:	GC00015
File ID:	23042426	Analyzed:	04/25/23 11:03

Surrogate Compound	Spike Level ng/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	202.30	46.5	24 - 169	25.6895	25.76487	-0.0754	N/A	
13C12-2,3,7,8-TCDD	202.30	55.0	25 - 164	26.3252	26.40287	-0.0777	N/A	
13C12-1,2,3,7,8-PeCDF	202.30	71.4	24 - 185	29.8443	29.92235	-0.0781	N/A	
13C12-2,3,4,7,8-PeCDF	202.30	75.2	21 - 178	31.1813	31.2611	-0.0798	N/A	
13C12-1,2,3,7,8-PeCDD	202.30	55.7	25 - 181	31.4375	31.5192	-0.0817	N/A	
13C12-1,2,3,4,7,8-HxCDF	202.30	64.0	26 - 152	34.8022	34.88393	-0.0817	N/A	
13C12-1,2,3,6,7,8-HxCDF	202.30	54.7	26 - 123	34.947	35.02318	-0.0762	N/A	
13C12-2,3,4,6,7,8-HxCDF	202.30	65.3	28 - 136	35.816	35.88653	-0.0705	N/A	
13C12-1,2,3,7,8,9-HxCDF	202.30	62.1	29 - 147	36.8408	36.91718	-0.0764	N/A	
13C12-1,2,3,4,7,8-HxCDD	202.30	64.9	32 - 141	35.9385	36.00728	-0.0688	N/A	
13C12-1,2,3,6,7,8-HxCDD	202.30	57.4	28 - 130	36.061	36.12053	-0.0595	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	202.30	76.7	28 - 143	38.6792	38.7593	-0.0801	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	202.30	70.5	26 - 138	40.9187	40.99867	-0.0800	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	202.30	62.4	23 - 140	40.1722	40.25773	-0.0855	N/A	
13C12-OCDD	404.61	63.9	17 - 157	44.8782	44.98705	-0.1089	N/A	
37Cl4-2,3,7,8-TCDD	80.922	57.4	35 - 197	26.3393	26.42402	-0.0847	N/A	

* Values outside of QC limits

SURROGATE RECOVERY AND RT SUMMARY

EPA 1613B

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLD0330	Instrument:	AUTOSPEC01
Sample ID:	23C0071-02	Calibration:	GC00015
File ID:	23042427	Analyzed:	04/25/23 11:52

Surrogate Compound	Spike Level ng/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	202.30	60.4	24 - 169	25.6753	25.76487	-0.0896	N/A	
13C12-2,3,7,8-TCDD	202.30	68.2	25 - 164	26.3108	26.40287	-0.0921	N/A	
13C12-1,2,3,7,8-PeCDF	202.30	75.6	24 - 185	29.833	29.92235	-0.0894	N/A	
13C12-2,3,4,7,8-PeCDF	202.30	78.6	21 - 178	31.17	31.2611	-0.0911	N/A	
13C12-1,2,3,7,8-PeCDD	202.30	56.5	25 - 181	31.4262	31.5192	-0.0930	N/A	
13C12-1,2,3,4,7,8-HxCDF	202.30	67.0	26 - 152	34.7907	34.88393	-0.0932	N/A	
13C12-1,2,3,6,7,8-HxCDF	202.30	57.5	26 - 123	34.9355	35.02318	-0.0877	N/A	
13C12-2,3,4,6,7,8-HxCDF	202.30	67.2	28 - 136	35.8045	35.88653	-0.0820	N/A	
13C12-1,2,3,7,8,9-HxCDF	202.30	68.0	29 - 147	36.8293	36.91718	-0.0879	N/A	
13C12-1,2,3,4,7,8-HxCDD	202.30	69.7	32 - 141	35.927	36.00728	-0.0803	N/A	
13C12-1,2,3,6,7,8-HxCDD	202.30	59.0	28 - 130	36.0383	36.12053	-0.0822	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	202.30	78.3	28 - 143	38.6678	38.7593	-0.0915	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	202.30	73.1	26 - 138	40.907	40.99867	-0.0917	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	202.30	63.9	23 - 140	40.1605	40.25773	-0.0972	N/A	
13C12-OCDD	404.61	61.9	17 - 157	44.8593	44.98705	-0.1278	N/A	
37Cl4-2,3,7,8-TCDD	80.922	75.9	35 - 197	26.3392	26.42402	-0.0848	N/A	

* Values outside of QC limits

SURROGATE RECOVERY AND RT SUMMARY

EPA 1613B

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLD0330	Instrument:	AUTOSPEC01
Sample ID:	SLD0330-CCV3	Calibration:	GC00015
File ID:	23042432	Analyzed:	04/25/23 15:57

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	100.00	89.8	71 - 129	25.6893	25.76487	-0.0756	N/A	
13C12-2,3,7,8-TCDD	100.00	100	82 - 118	26.325	26.40287	-0.0779	N/A	
13C12-1,2,3,7,8-PeCDF	100.00	110	76 - 124	29.8442	29.92235	-0.0782	N/A	
13C12-2,3,4,7,8-PeCDF	100.00	115	77 - 123	31.1812	31.2611	-0.0799	N/A	
13C12-1,2,3,7,8-PeCDD	100.00	80.2	62 - 138	31.4263	31.5192	-0.0929	N/A	
13C12-1,2,3,4,7,8-HxCDF	100.00	95.5	76 - 124	34.802	34.88393	-0.0819	N/A	
13C12-1,2,3,6,7,8-HxCDF	100.00	83.0	70 - 130	34.9468	35.02318	-0.0764	N/A	
13C12-2,3,4,6,7,8-HxCDF	100.00	95.6	73 - 127	35.8047	35.88653	-0.0818	N/A	
13C12-1,2,3,7,8,9-HxCDF	100.00	95.4	74 - 126	36.8407	36.91718	-0.0765	N/A	
13C12-1,2,3,4,7,8-HxCDD	100.00	93.0	85 - 115	35.9272	36.00728	-0.0801	N/A	
13C12-1,2,3,6,7,8-HxCDD	100.00	81.4	85 - 115	36.0385	36.12053	-0.0820	N/A	*
13C12-1,2,3,4,6,7,8-HpCDF	100.00	120	78 - 122	38.6792	38.7593	-0.0801	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	100.00	111	77 - 123	40.9185	40.99867	-0.0802	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	100.00	101	72 - 128	40.172	40.25773	-0.0857	N/A	
13C12-OCDD	200.00	107	48 - 152	44.8778	44.98705	-0.1093	N/A	
37Cl4-2,3,7,8-TCDD	10.000	87.3	0 - 200	26.3392	26.42402	-0.0848	N/A	

* Values outside of QC limits

HOLDING TIME SUMMARY

Analysis: EPA 1613B

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
LDW23-SS1037 23C0071-02	03/02/23 09:56	03/02/23 16:34	03/15/23 06:39	12	365	04/25/23 11:52	41	365	
Duplicate BLC0379-DUP1	03/02/23 09:56	03/02/23 16:34	03/15/23 06:39	12	365	04/25/23 11:03	41	365	

* Indicates hold time exceedance.

METHOD DETECTION AND REPORTING LIMITS

EPA 1613B

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Matrix: Solid
Instrument: AUTOSPEC01

Analyte	MDL	RL	Units
2,3,7,8-TCDF	0.058	1.00	ng/kg
2,3,7,8-TCDD	0.150	1.00	ng/kg
1,2,3,7,8-PeCDF	0.240	1.00	ng/kg
2,3,4,7,8-PeCDF	0.220	1.00	ng/kg
1,2,3,7,8-PeCDD	0.170	1.00	ng/kg
1,2,3,4,7,8-HxCDF	0.280	1.00	ng/kg
1,2,3,6,7,8-HxCDF	0.200	1.00	ng/kg
2,3,4,6,7,8-HxCDF	0.170	1.00	ng/kg
1,2,3,7,8,9-HxCDF	0.190	1.00	ng/kg
1,2,3,4,7,8-HxCDD	0.170	1.00	ng/kg
1,2,3,6,7,8-HxCDD	0.180	1.00	ng/kg
1,2,3,7,8,9-HxCDD	0.220	1.00	ng/kg
1,2,3,4,6,7,8-HpCDF	0.210	1.00	ng/kg
1,2,3,4,7,8,9-HpCDF	0.240	1.00	ng/kg
1,2,3,4,6,7,8-HpCDD	0.560	2.50	ng/kg
OCDF	1.10	2.50	ng/kg
OCDD	4.60	10.0	ng/kg
Total TCDF		1.00	ng/kg
Total TCDD		1.00	ng/kg
Total PeCDF		1.00	ng/kg
Total PeCDD		1.00	ng/kg
Total HxCDF		1.00	ng/kg
Total HxCDD		1.00	ng/kg
Total HpCDF		1.00	ng/kg
Total HpCDD		1.00	ng/kg

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

CS3WT

Calibration and Verification Solution (EPA-1613CS3) combined with Window Defining and 2,3,7,8-TCDD Resolution Testing Congeners

PRODUCT CODE:	CS3WT
LOT NUMBER:	CS3WT0918
SOLVENT(S):	Nonane/Toluene
DATE PREPARED: (mm/dd/yyyy)	10/24/2018
LAST TESTED: (mm/dd/yyyy)	10/29/2018
EXPIRY DATE: (mm/dd/yyyy)	10/29/2025
RECOMMENDED STORAGE:	Store ampoule in a cool, dark place

DESCRIPTION:

CS3WT is a solution/mixture of native and $^{13}C_{12}$-labelled chlorinated dibenzo-p-dioxins (PCDDs) and dibenzofurans (PCDFs). The components and their concentrations are given in Table A.

CS3WT was designed and prepared to be used as a HRMS calibration standard according to U.S. EPA Method 1613B.

It is to be used for calibration verification in place of EPA-1613CS3 (Lot: 13CS30918). It also contains the PCDD and PCDF window defining congeners for a DB-5 (or equivalent) capillary column as well as the TCDD isomers required to test and confirm the resolution of 2,3,7,8-TCDD.

The individual ^{13}C-labelled PCDDs and PCDFs all have chemical purities of >98% and isotopic purities of ≥99%. The 2,3,7,8-$^{37}Cl_4$-tetrachlorodibenzo-p-dioxin has a chemical purity of >98% and an isotopic (^{37}Cl) purity of ≥95%. The individual native 2,3,7,8-substituted PCDD and PCDF congeners all have chemical purities of >98%; the other congeners (window defining and resolution testing) should only be considered semi-quantitative.

This current lot of CS3WT is to be used with the 1613 calibration solutions having the following lot numbers:

PRODUCT CODE	LOT NUMBER
EPA-1613CS1	13CS10918
EPA-1613CS2	13CS20918
EPA-1613CS3	13CS30918
EPA-1613CS4	13CS40918
EPA-1613CS5	13CS50918
EPA-1613CSL	13CSL0918
EPA-1613CS0.5	13CS0.50918

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Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

DOCUMENTATION/ DATA ATTACHED:

Table A: Components and Concentrations of the Solution/Mixture
Figure 1: HRGC/HRMS Data (SIR; 10,000 mass resolving power)

ADDITIONAL INFORMATION:

- See page 3 for further details.
- Only the 2,3,7,8-substituted PCDDs and PCDFs should be used for quantitation. The other congeners (window defining and 2378-TCDD resolution testing) should be considered semi-quantitative (within ±20% of their design value). Impurities have been identified where possible.

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compounds it contains.

HANDLING:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products, as well as mixtures and calibration solutions, are compared to older lots in a similar manner. This further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2,...x_n on which it depends is:

$$u_c(y(x_1, x_2, ...x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ±5% (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO 17034 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).

CALA Testing Accreditation No. A1226

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Table A: **CS3WT; Components and Concentrations (ng/ml, in nonane/4.5% toluene)**

QUANTITATIVE ANALYTES (ng/ml, ±5%)	
Native PCDDs & PCDFs:	
2,3,7,8-TCDD	10
2,3,7,8-TCDF	10
1,2,3,7,8-PeCDD	50
1,2,3,7,8-PeCDF	50
2,3,4,7,8-PeCDF	50
1,2,3,4,7,8-HxCDD	50
1,2,3,6,7,8-HxCDD	50
1,2,3,7,8,9-HxCDD	50
1,2,3,4,7,8-HxCDF	50
1,2,3,6,7,8-HxCDF	50
1,2,3,7,8,9-HxCDF	50
2,3,4,6,7,8-HxCDF	50
1,2,3,4,6,7,8-HpCDD *(WD)*	50
1,2,3,4,6,7,8-HpCDF *(WD)*	50
1,2,3,4,7,8,9-HpCDF *(WD)*	50
OCDD	100
OCDF	100
Labelled PCDDs & PCDFs:	
$^{13}C_{12}$-2,3,7,8-TCDD	100
$^{13}C_{12}$-2,3,7,8-TCDF	100
$^{13}C_{12}$-1,2,3,7,8-PeCDD	100
$^{13}C_{12}$-1,2,3,7,8-PeCDF	100
$^{13}C_{12}$-2,3,4,7,8-PeCDF	100
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	100
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	100
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	100
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	100
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	100
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	100
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	100
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	100
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	100
$^{13}C_{12}$-OCDD	200
Cleanup Standard:	
$^{37}Cl_4$-2,3,7,8-TCDD	10
Internal Standards:	
$^{13}C_{12}$-1,2,3,4-TCDD	100
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	100

SEMI-QUANTITATIVE ANALYTES (ng/ml, ±20%)	
Window Definers:*	
1,3,6,8-TCDD	10
1,2,8,9-TCDD	10
1,3,6,8-TCDF	10
1,2,8,9-TCDF	10
1,2,4,6,8/1,2,4,7,9-PeCDD	50
1,2,3,8,9-PeCDD	50
1,3,4,6,8-PeCDF	50
1,2,3,8,9-PeCDF	50
1,2,4,6,7,9-HxCDD	50
1,2,3,4,6,8-HxCDF	50
1,2,3,4,6,7,9-HpCDD	50
2378-TCDD Resolution Testing Isomers:	
1,2,3,4-TCDD	5
1,2,3,7/1,2,3,8-TCDD	5
1,2,3,9-TCDD	10

** 1,2,3,4,6,7-HxCDD (last eluting HxCDD) not included; coelutes with 1,2,3,7,8,9-HxCDD. Use 1,2,3,4,6,7,9-HpCDD to set window.*

** 1,2,3,4,8,9-HxCDF (last eluting HxCDF) not included; can interfere with 1,2,3,7,8,9-HxCDF. Use 1,2,3,4,6,7,8-HpCDF to set window.*

WD – Window Definer

Certified By: _____ **Date:** 10/30/2018 (mm/dd/yyyy)

B.G. Chittim, General Manager

Figure 1: **CS3WT; HRGC/HRMS Data (60 m DB-5 Column)**

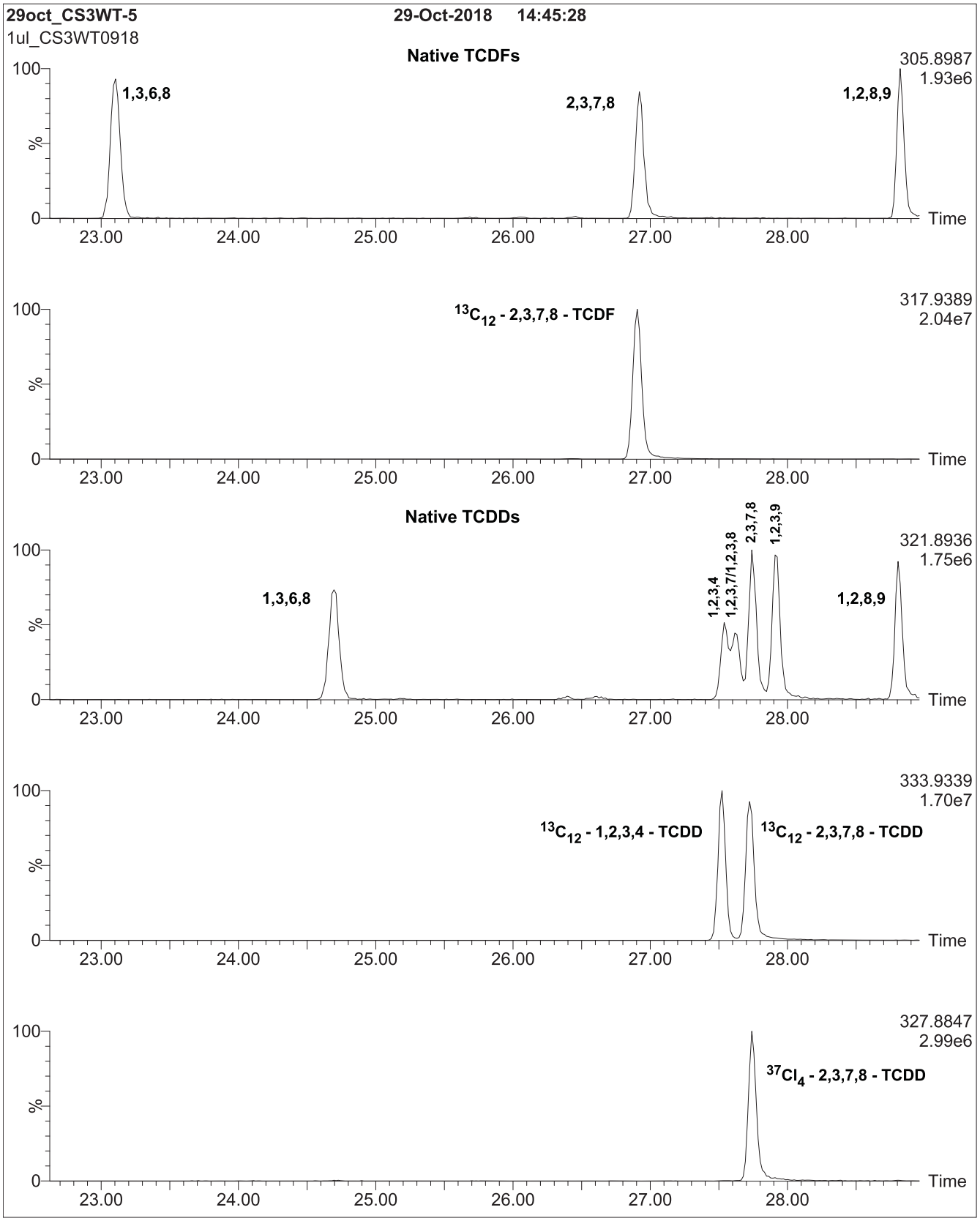


Figure 1: **CS3WT; HRGC/HRMS Data (60 m DB-5 Column)**

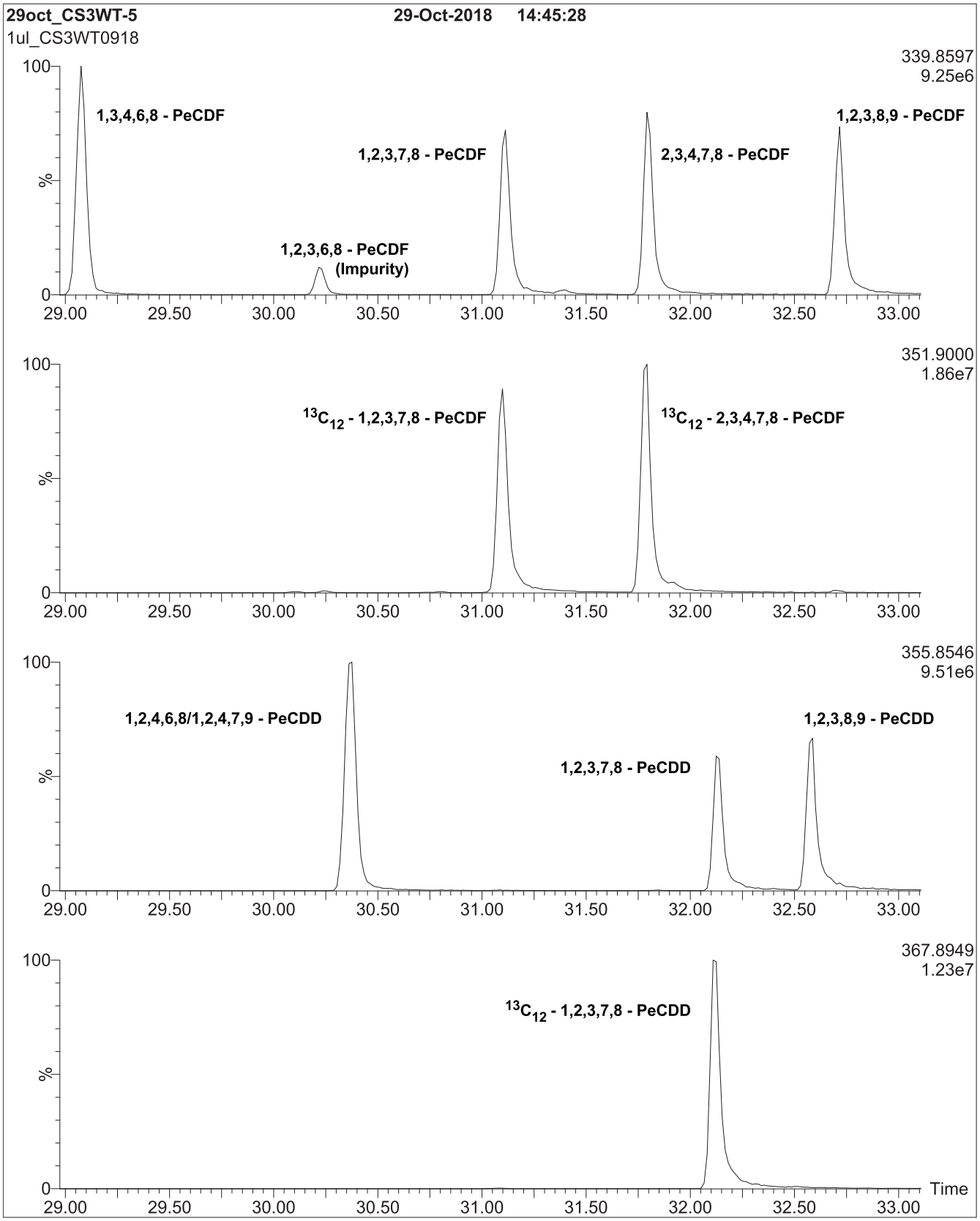


Figure 1: **CS3WT; HRGC/HRMS Data (60 m DB-5 Column)**

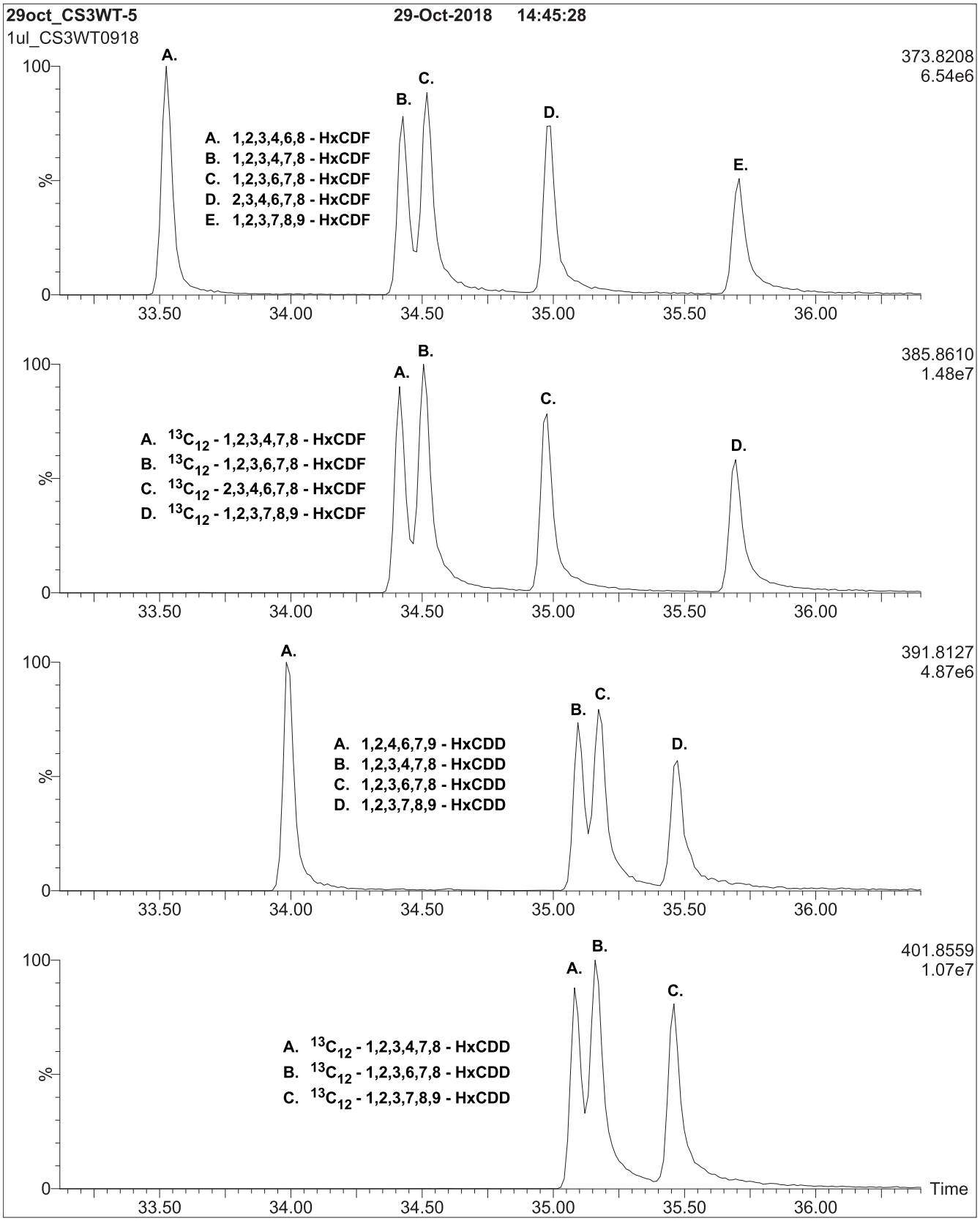


Figure 1: **CS3WT; HRGC/HRMS Data (60 m DB-5 Column)**

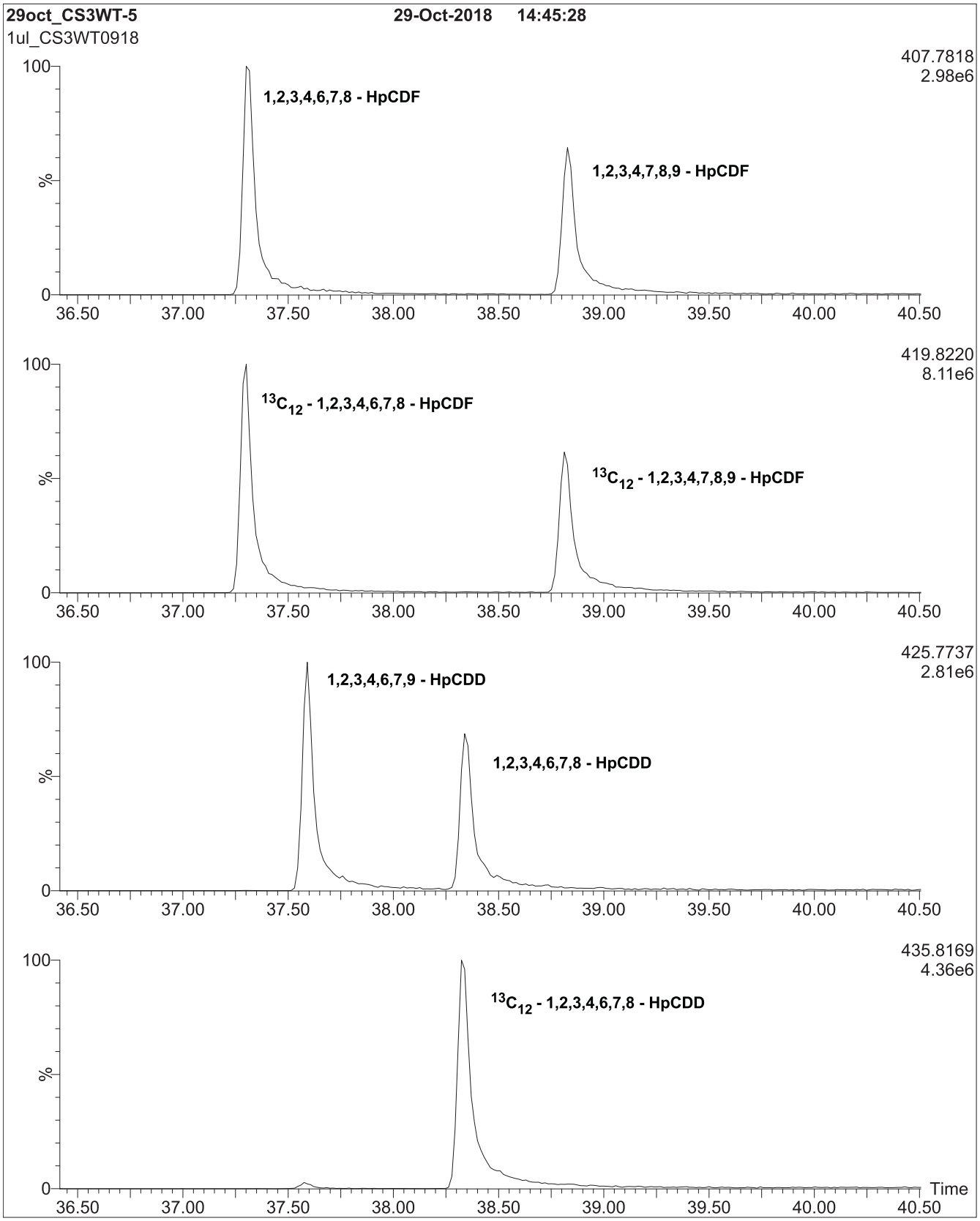
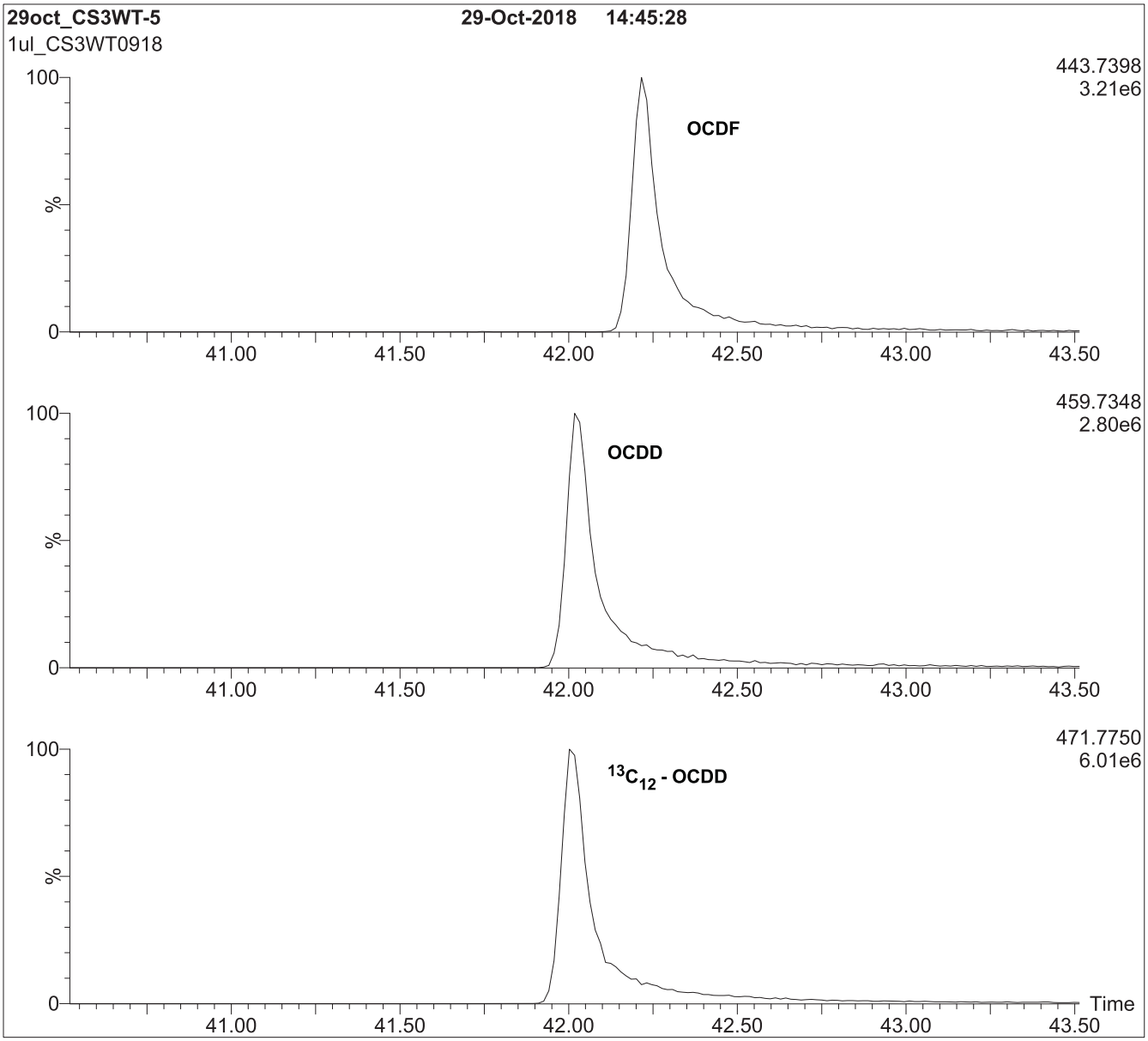


Figure 1: **CS3WT; HRGC/HRMS Data (60 m DB-5 Column)**



HRGC/HRMS:

Agilent 6890N (HRGC)
Autospec Ultima (HRMS)

Chromatographic Conditions:

Column: 60 m DB-5 (0.25 mm id, 0.25 µm film thickness) Agilent J&W

Flow:	Constant at 1 ml/min	Oven:	150 °C (1 min)
Injector:	280 °C (Splitless Injection)		12 °C/min to 200 °C
Ionization:	EI+		3 °C/min to 235 °C
Detector:	280 °C		235 °C (8 min)
	SIR at 10,000 mass resolving power		8 °C/min to 310 °C
			310 °C (8 min)

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

EPA-1613CVS

U.S. EPA Method 1613 Calibration and Verification Solutions
plus Supplemental Calibration Solutions EPA-1613CSL & EPA-1613CS0.5

PRODUCT CODES:	EPA-1613CVS	**LOT NUMBERS:**	(see below)
	EPA-1613CS1		13CS11019
	EPA-1613CS2		13CS21019
	EPA-1613CS3		13CS31019
	EPA-1613CS4		13CS41019
	EPA-1613CS5		13CS51019

Note: EPA-1613CSL and EPA-1613CS0.5 are lower level extensions to this calibration set that must be ordered separately.

EPA-1613CS0.5	13CS0.51019
EPA-1613CSL	13CSL1019

SOLVENT(S):	Nonane/Toluene
DATE PREPARED: (mm/dd/yyyy)	10/22/2019
LAST TESTED: (mm/dd/yyyy)	10/24/2019
EXPIRY DATE: (mm/dd/yyyy)	10/24/2026
RECOMMENDED STORAGE:	Store ampoules in a cool, dark place

I005456
1613 CS1 CAL STD
Expires 10/24/2026
Prepared By Joshua Rains 6/23/2020

DESCRIPTION:

EPA-1613CVS is a series of 5 calibration solutions containing native ($^{12}C_{12}$) and mass-labelled ($^{13}C_{12}$ and $^{37}Cl_4$) chlorinated dibenzo-p-dioxins (PCDDs) and dibenzofurans (PCDFs). The components of each solution, and their concentrations, are given in Table A.

They were designed for, and prepared to be used according to, U.S. EPA Method 1613 (Revision B). They are to be used as received.

EPA-1613CSL and EPA-1613CS0.5 are lower level extensions to EPA-1613CVS. Neither is required by the method, but either or both can be used to extend the calibration to lower levels.

The individual native PCDDs and PCDFs all have chemical purities of >98%. The individual ^{13}C-labelled PCDDs and PCDFs all have chemical purities of >98% and isotopic purities of ≥99%. The 2,3,7,8-$^{37}Cl_4$-Tetrachlorodibenzo-p-dioxin has a chemical purity of >98% and an isotopic (^{37}Cl) purity of ≥95%.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

DOCUMENTATION/ DATA ATTACHED:

Table A: Components and Concentrations
Table B: 5-point HRGC/HRMS Calibration and RRF Summary
Table C: 7-point HRGC/HRMS Calibration and RRF Summary
Figure 1: HRGC/HRMS Data for EPA-1613CS3 (SIR; 10,000 mass resolving power)

ADDITIONAL INFORMATION:

- See page 3 for further details.

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a series of standards for the identification and quantification of specific chemical compounds.

HANDLING:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products, as well as mixtures and calibration solutions, are compared to older lots in a similar manner. This further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned values, and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2,...x_n on which it depends is:

$$u_c(y(x_1, x_2, ...x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ±5% (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analytes is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO 17034 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).

CALA Testing Accreditation No. A 1226

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Table A: **EPA-1613CVS (with EPA-1613CSL and EPA-1613CS0.5); Components and Concentrations (ng/ml, ± 5% in nonane/toluene)**

Compound	Concentration (ng/ml)						
Native PCDDs and PCDFs:	**CS1**	**CS2**	**CS3**	**CS4**	**CS5**	**CSL**	**CS0.5**
2,3,7,8-TCDD	0.5	2	10	40	200	0.1	0.25
2,3,7,8-TCDF	0.5	2	10	40	200	0.1	0.25
1,2,3,7,8-PeCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,7,8-PeCDF	2.5	10	50	200	1000	0.5	1.25
2,3,4,7,8-PeCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,7,8-HxCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,6,7,8-HxCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,7,8,9-HxCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,7,8-HxCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,6,7,8-HxCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,7,8,9-HxCDF	2.5	10	50	200	1000	0.5	1.25
2,3,4,6,7,8-HxCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,6,7,8-HpCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,6,7,8-HpCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,7,8,9-HpCDF	2.5	10	50	200	1000	0.5	1.25
OCDD	5.0	20	100	400	2000	1.0	2.5
OCDF	5.0	20	100	400	2000	1.0	2.5
Labelled PCDDs and PCDFs:							
$^{13}C_{12}$-2,3,7,8-TCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-2,3,7,8-TCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,7,8-PeCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,7,8-PeCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-2,3,4,7,8-PeCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-OCDD	200	200	200	200	200	200	200
Cleanup Standard:							
$^{37}Cl_4$-2,3,7,8-TCDD	0.5	2	10	40	200	0.1	0.25
Internal Standards:							
$^{13}C_{12}$-1,2,3,4-TCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	100	100	100	100	100	100	100
Percent toluene (v/v)	3.6%	3.7%	4.2%	6.1%	16.2%	3.6%	3.6%

Certified By: _____ **Date:** 10/25/2019
(mm/dd/yyyy)
B.G. Chittim, General Manager

Table B: **EPA-1613CVS; 5-point HRGC/HRMS Calibration and RRF Summary**

Calibration RRF Summary				Calibration Standard				
Calibration Filename: 24oct_EPA1613CVS-CAL.QLD				CS1	CS2	CS3	CS4	CS5
Name	Mean	S. D.	%RSD	RRF#1	RRF#2	RRF#3	RRF#4	RRF#5
2,3,7,8-TCDF	0.93	0.013	1.4	0.92	0.95	0.93	0.92	0.95
1,2,3,7,8-PeCDF	0.93	0.015	1.6	0.92	0.92	0.93	0.93	0.95
2,3,4,7,8-PeCDF	1.04	0.019	1.8	1.03	1.02	1.05	1.05	1.07
1,2,3,4,7,8-HxCDF	0.96	0.035	3.7	0.94	0.92	0.98	0.99	1.00
1,2,3,6,7,8-HxCDF	0.93	0.013	1.4	0.92	0.94	0.94	0.91	0.94
2,3,4,6,7,8-HxCDF	0.96	0.022	2.3	0.95	0.94	0.97	0.97	0.99
1,2,3,7,8,9-HxCDF	0.89	0.021	2.4	0.87	0.88	0.90	0.90	0.92
1,2,3,4,6,7,8-HpCDF	0.91	0.011	1.2	0.90	0.90	0.90	0.92	0.92
1,2,3,4,7,8,9-HpCDF	0.91	0.010	1.1	0.90	0.90	0.92	0.91	0.92
OCDF	1.19	0.056	4.7	1.11	1.17	1.19	1.23	1.26
2,3,7,8-TCDD	1.05	0.023	2.2	1.01	1.06	1.05	1.05	1.07
1,2,3,7,8-PeCDD	0.97	0.018	1.9	0.95	0.95	0.98	0.97	0.99
1,2,3,4,7,8-HxCDD	1.00	0.019	1.9	1.01	1.00	1.00	0.96	1.01
1,2,3,6,7,8-HxCDD	0.98	0.032	3.2	0.93	0.98	0.99	1.01	1.01
1,2,3,7,8,9-HxCDD	0.97	0.016	1.6	0.95	0.96	0.98	0.99	0.98
1,2,3,4,6,7,8-HpCDD	1.01	0.025	2.5	1.01	0.97	1.02	1.03	1.04
OCDD	1.00	0.013	1.3	1.00	0.99	1.02	1.02	1.00
$^{13}C_{12}$-2,3,7,8-TCDF	1.57	0.047	3.0	1.52	1.55	1.55	1.57	1.65
$^{13}C_{12}$-1,2,3,7,8-PeCDF	1.21	0.078	6.5	1.13	1.20	1.17	1.20	1.34
$^{13}C_{12}$-2,3,4,7,8-PeCDF	1.17	0.081	6.9	1.09	1.15	1.13	1.17	1.31
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	1.33	0.020	1.5	1.35	1.33	1.33	1.32	1.30
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	1.51	0.034	2.2	1.47	1.48	1.53	1.53	1.54
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	1.38	0.012	0.9	1.38	1.38	1.40	1.37	1.36
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	1.19	0.014	1.2	1.18	1.16	1.20	1.19	1.20
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	1.31	0.033	2.5	1.31	1.26	1.33	1.31	1.35
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	1.08	0.046	4.3	1.06	1.03	1.09	1.08	1.15
$^{13}C_{12}$-2,3,7,8-TCDD	1.13	0.036	3.2	1.10	1.11	1.11	1.13	1.19
$^{13}C_{12}$-1,2,3,7,8-PeCDD	0.79	0.047	5.9	0.74	0.78	0.75	0.79	0.86
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	0.87	0.027	3.1	0.85	0.83	0.89	0.88	0.89
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	1.04	0.010	1.0	1.05	1.05	1.04	1.05	1.03
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	0.81	0.017	2.1	0.81	0.80	0.80	0.81	0.84
$^{13}C_{12}$-OCDD	0.74	0.055	7.4	0.70	0.70	0.73	0.72	0.83
$^{13}C_{12}$-1,2,3,4-TCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00
$^{37}Cl_4$-2,3,7,8-TCDD	0.97	0.026	2.6	0.95	0.94	0.99	0.99	0.99

Table C: **EPA-1613CVS (with EPA-1613CSL and EPA-1613CS0.5); 7-point HRGC/HRMS Calibration and RRF Summary**

Calibration RRF Summary				Calibration Standard						
Calibration Filename: 24oct_EPA1613CVS-CAL.QLD				CSL	CS0.5	CS1	CS2	CS3	CS4	CS5
Name	Mean	S. D.	%RSD	RRF#1	RRF#2	RRF#3	RRF#4	RRF#5	RRF#6	RRF#7
2,3,7,8-TCDF	0.92	0.045	4.8	0.96	0.83	0.92	0.95	0.93	0.92	0.95
1,2,3,7,8-PeCDF	0.93	0.013	1.4	0.94	0.92	0.92	0.92	0.93	0.93	0.95
2,3,4,7,8-PeCDF	1.02	0.058	5.7	0.90	1.00	1.03	1.02	1.05	1.05	1.07
1,2,3,4,7,8-HxCDF	0.96	0.029	3.0	0.96	0.97	0.94	0.92	0.98	0.99	1.00
1,2,3,6,7,8-HxCDF	0.92	0.030	3.3	0.90	0.86	0.92	0.94	0.94	0.91	0.94
2,3,4,6,7,8-HxCDF	0.94	0.047	5.0	0.87	0.89	0.95	0.94	0.97	0.97	0.99
1,2,3,7,8,9-HxCDF	0.88	0.029	3.3	0.83	0.88	0.87	0.88	0.90	0.90	0.92
1,2,3,4,6,7,8-HpCDF	0.90	0.033	3.7	0.83	0.93	0.90	0.90	0.90	0.92	0.92
1,2,3,4,7,8,9-HpCDF	0.91	0.018	1.9	0.89	0.94	0.90	0.90	0.92	0.91	0.92
OCDF	1.18	0.052	4.4	1.15	1.14	1.11	1.17	1.19	1.23	1.26
2,3,7,8-TCDD	1.03	0.051	5.0	1.03	0.92	1.01	1.06	1.05	1.05	1.07
1,2,3,7,8-PeCDD	0.95	0.042	4.4	0.87	0.98	0.95	0.95	0.98	0.97	0.99
1,2,3,4,7,8-HxCDD	0.97	0.066	6.8	0.83	0.98	1.01	1.00	1.00	0.96	1.01
1,2,3,6,7,8-HxCDD	0.96	0.044	4.5	0.90	0.92	0.93	0.98	0.99	1.01	1.01
1,2,3,7,8,9-HxCDD	0.94	0.054	5.7	0.83	0.92	0.95	0.96	0.98	0.99	0.98
1,2,3,4,6,7,8-HpCDD	1.01	0.033	3.3	0.95	1.03	1.01	0.97	1.02	1.03	1.04
OCDD	1.00	0.023	2.3	0.95	1.00	1.00	0.99	1.02	1.02	1.00
$^{13}C_{12}$-2,3,7,8-TCDF	1.56	0.042	2.7	1.52	1.54	1.52	1.55	1.55	1.57	1.65
$^{13}C_{12}$-1,2,3,7,8-PeCDF	1.20	0.066	5.5	1.18	1.17	1.13	1.20	1.17	1.20	1.34
$^{13}C_{12}$-2,3,4,7,8-PeCDF	1.16	0.071	6.1	1.12	1.13	1.09	1.15	1.13	1.17	1.31
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	1.33	0.018	1.4	1.32	1.35	1.35	1.33	1.33	1.32	1.30
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	1.53	0.045	3.0	1.60	1.56	1.47	1.48	1.53	1.53	1.54
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	1.39	0.019	1.4	1.39	1.42	1.38	1.38	1.40	1.37	1.36
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	1.19	0.012	1.0	1.19	1.19	1.18	1.16	1.20	1.19	1.20
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	1.31	0.028	2.2	1.30	1.33	1.31	1.26	1.33	1.31	1.35
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	1.07	0.045	4.2	1.02	1.08	1.06	1.03	1.09	1.08	1.15
$^{13}C_{12}$-2,3,7,8-TCDD	1.12	0.033	3.0	1.09	1.11	1.10	1.11	1.11	1.13	1.19
$^{13}C_{12}$-1,2,3,7,8-PeCDD	0.78	0.040	5.1	0.75	0.78	0.74	0.78	0.75	0.79	0.86
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	0.87	0.025	2.9	0.86	0.90	0.85	0.83	0.89	0.88	0.89
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	1.05	0.015	1.5	1.08	1.06	1.05	1.05	1.04	1.05	1.03
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	0.81	0.016	2.0	0.79	0.81	0.81	0.80	0.80	0.81	0.84
$^{13}C_{12}$-OCDD	0.73	0.046	6.3	0.71	0.72	0.70	0.70	0.73	0.72	0.83
$^{13}C_{12}$-1,2,3,4-TCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
$^{37}Cl_4$-2,3,7,8-TCDD	0.97	0.053	5.4	0.90	1.07	0.95	0.94	0.99	0.99	0.99

Figure 1: **EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**

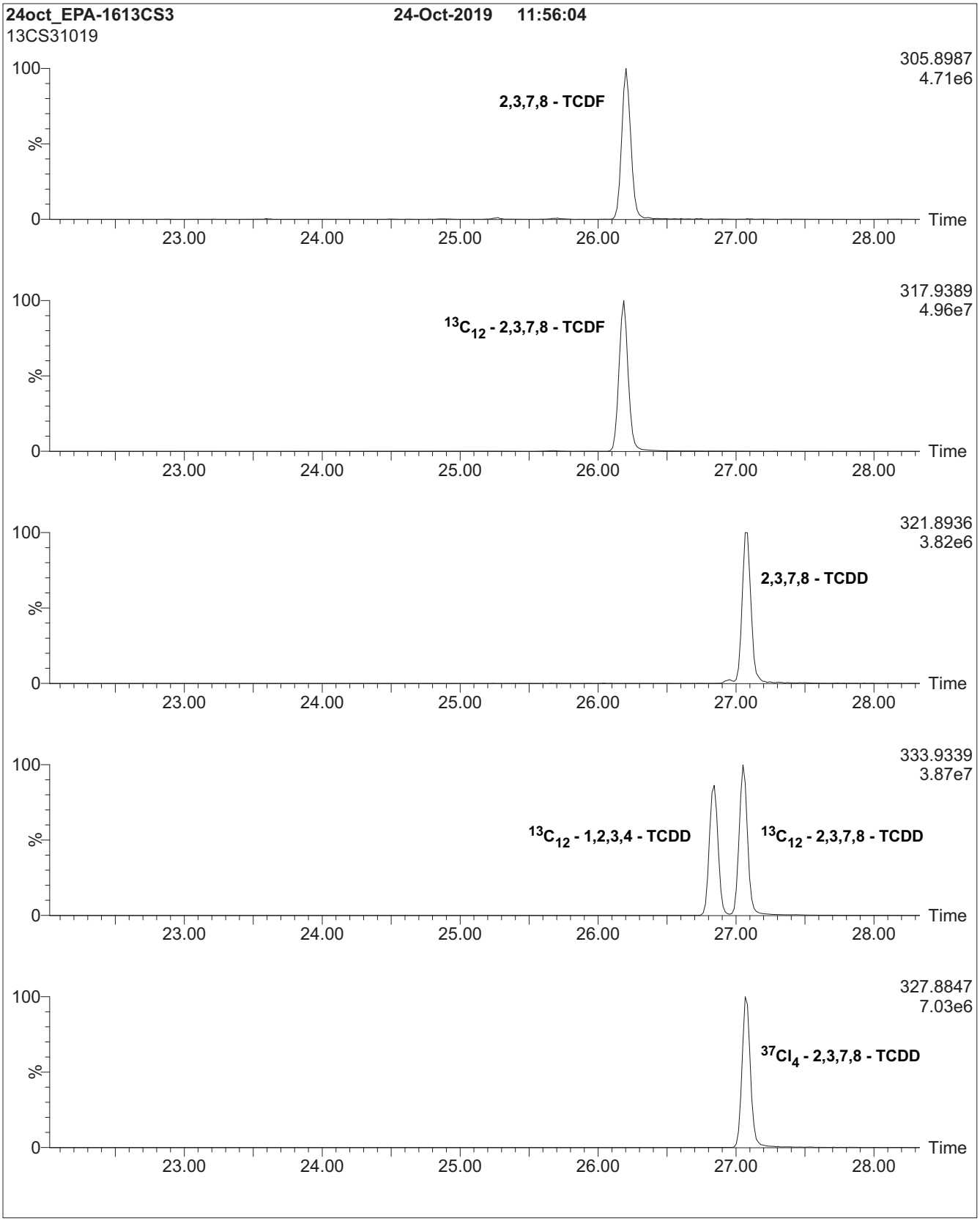


Figure 1: **EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**

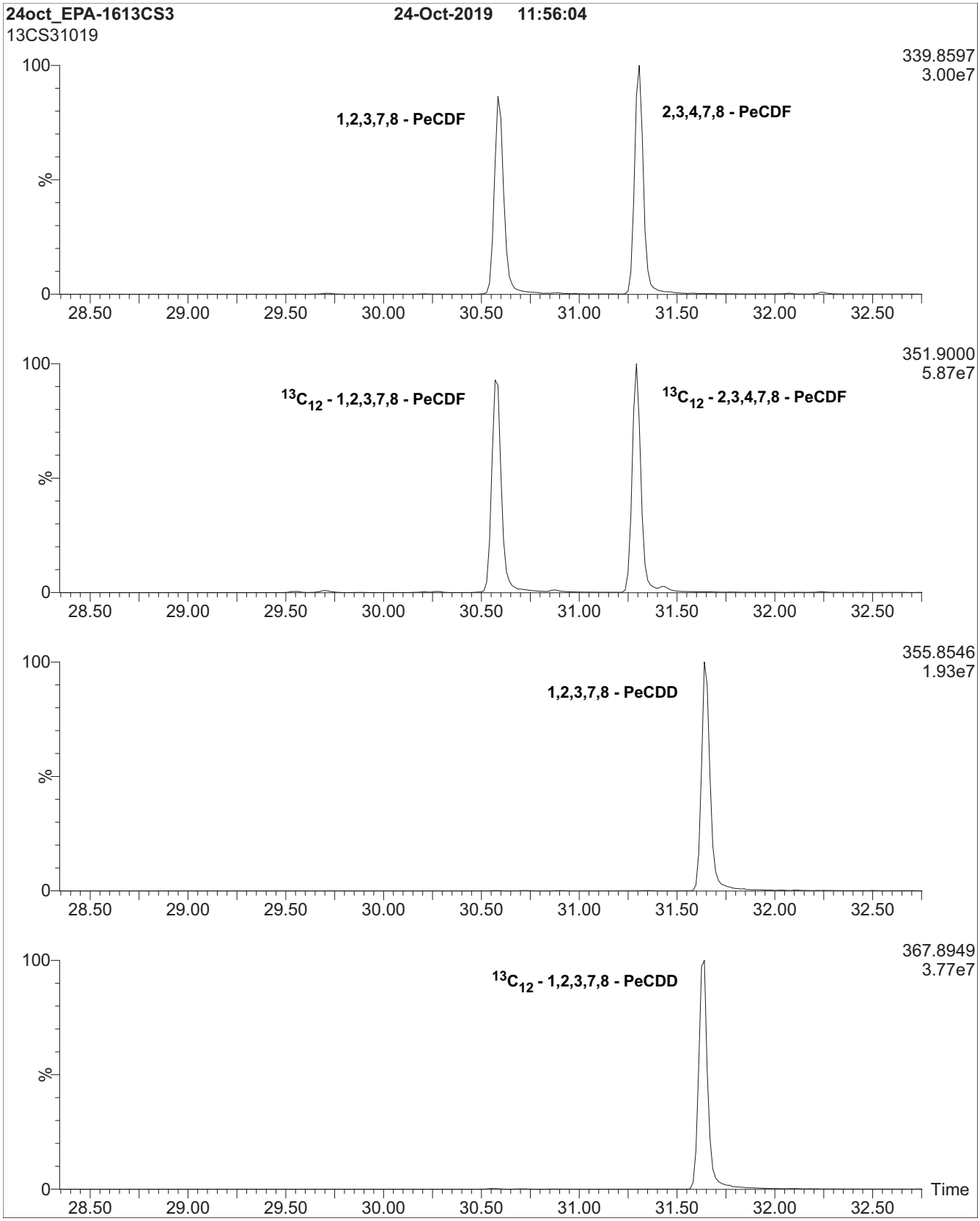


Figure 1: **EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**

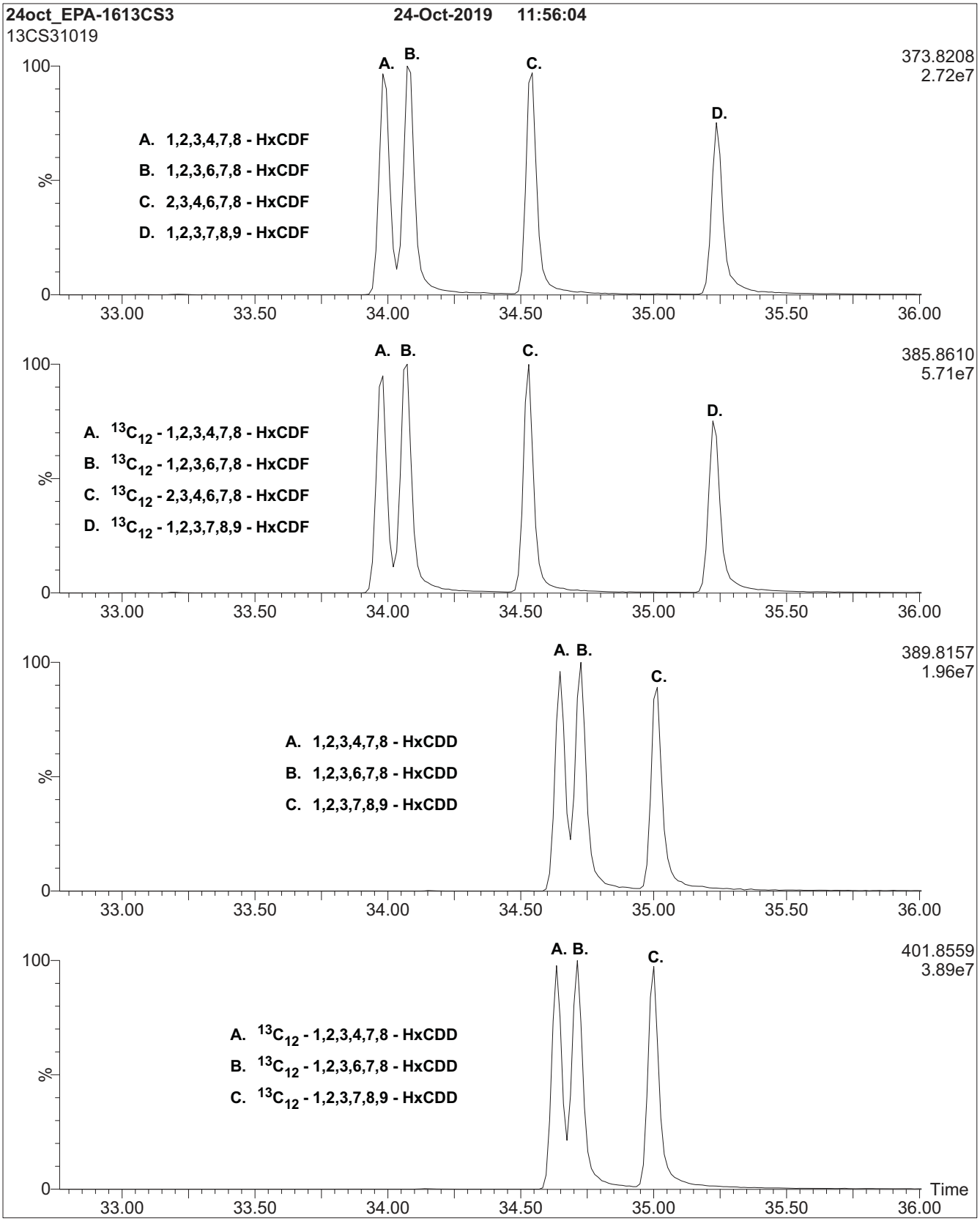


Figure 1: **EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**

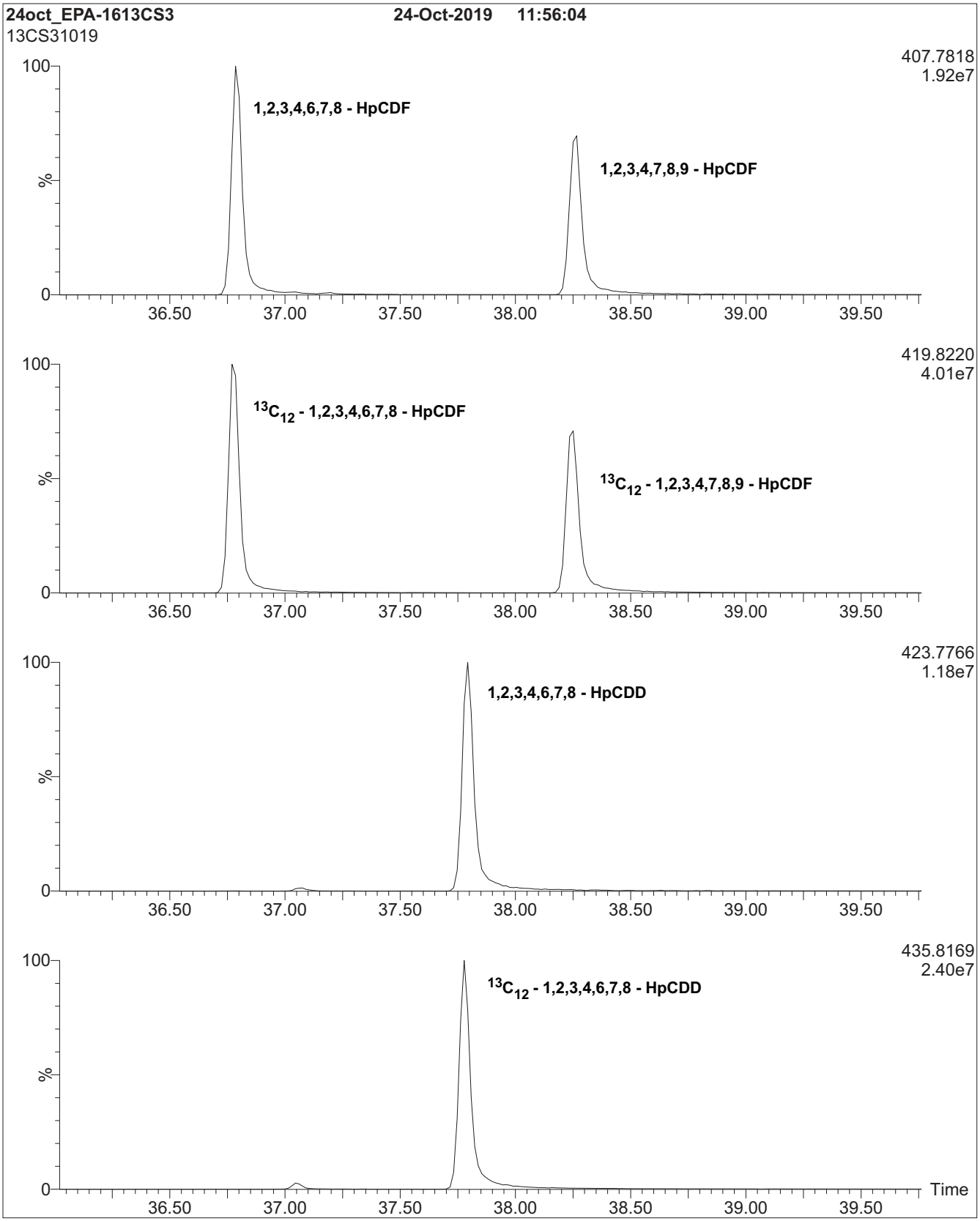
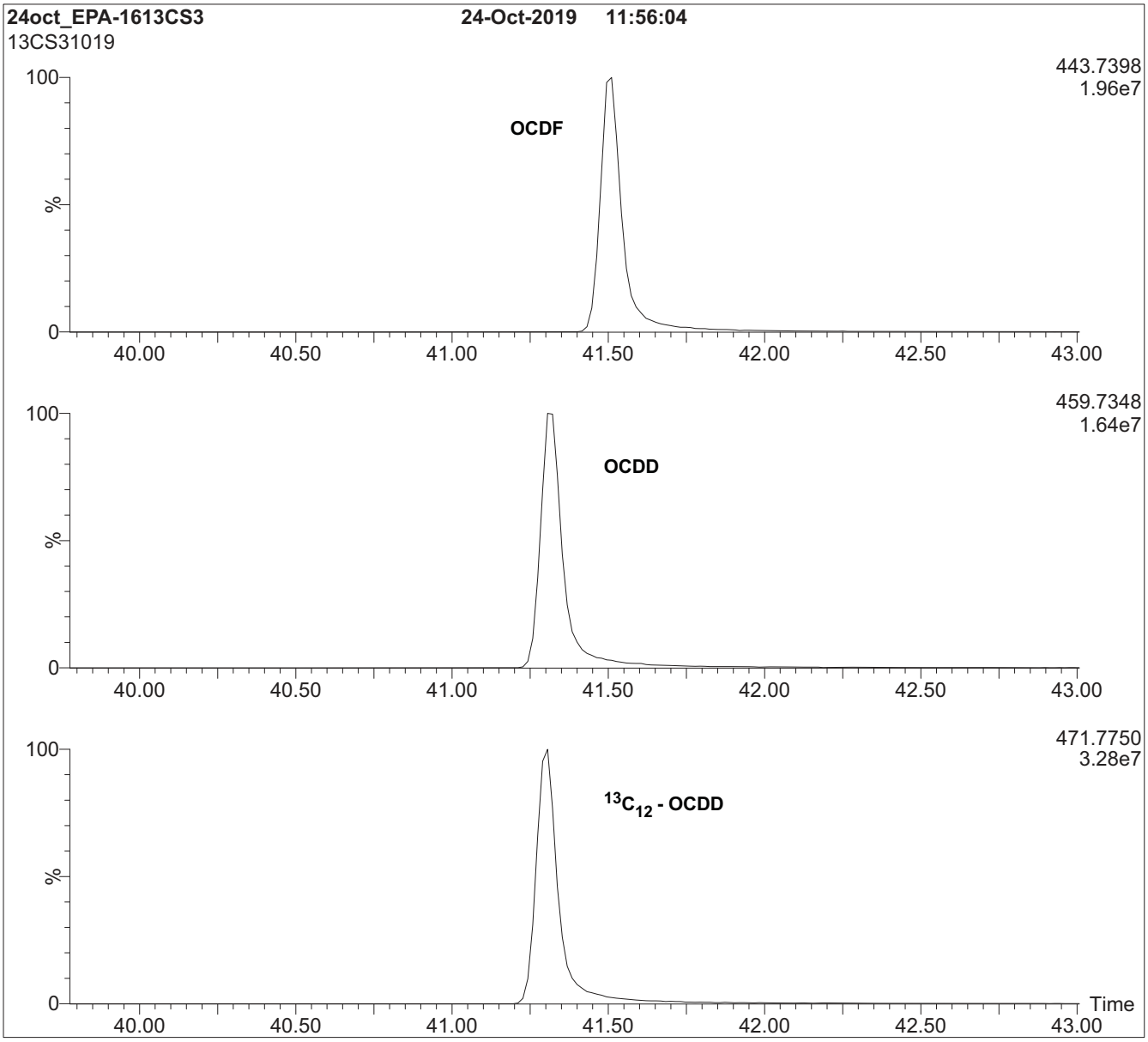


Figure 1: **EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**



HRGC/HRMS:

Agilent 6890N (HRGC)
Autospec Ultima (HRMS)

Chromatographic Conditions:

Column: 60 m DB-5 (0.25 mm id, 0.25 µm film thickness) Agilent J&W

Flow:	Constant at 1 ml/min	Oven:	150 °C (1 min)
Injector:	280 °C (Splitless Injection)		12 °C/min to 200 °C
Ionization:	EI+		3 °C/min to 235 °C
Detector:	280 °C		235 °C (8 min)
	SIR at 10,000 mass resolving power		8 °C/min to 310 °C
			310 °C (8 min)

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

EPA-1613CVS

U.S. EPA Method 1613 Calibration and Verification Solutions
plus Supplemental Calibration Solutions EPA-1613CSL & EPA-1613CS0.5

PRODUCT CODES:	EPA-1613CVS	**LOT NUMBERS:**	(see below)
	EPA-1613CS1		13CS11019
	EPA-1613CS2		13CS21019
	EPA-1613CS3		13CS31019
	EPA-1613CS4		13CS41019
	EPA-1613CS5		13CS51019

Note: EPA-1613CSL and EPA-1613CS0.5 are lower level extensions to this calibration set that must be ordered separately.

EPA-1613CS0.5	13CS0.51019
EPA-1613CSL	13CSL1019

SOLVENT(S):	Nonane/Toluene
DATE PREPARED: (mm/dd/yyyy)	10/22/2019
LAST TESTED: (mm/dd/yyyy)	10/24/2019
EXPIRY DATE: (mm/dd/yyyy)	10/24/2026
RECOMMENDED STORAGE:	Store ampoules in a cool, dark place

I005457
1613 CS2 CAL STD
Expires 10/24/2026
Prepared By Joshua Rains 6/23/2020

DESCRIPTION:

EPA-1613CVS is a series of 5 calibration solutions containing native ($^{12}C_{12}$) and mass-labelled ($^{13}C_{12}$ and $^{37}Cl_4$) chlorinated dibenzo-p-dioxins (PCDDs) and dibenzofurans (PCDFs). The components of each solution, and their concentrations, are given in Table A.

They were designed for, and prepared to be used according to, U.S. EPA Method 1613 (Revision B). They are to be used as received.

EPA-1613CSL and EPA-1613CS0.5 are lower level extensions to EPA-1613CVS. Neither is required by the method, but either or both can be used to extend the calibration to lower levels.

The individual native PCDDs and PCDFs all have chemical purities of >98%. The individual ^{13}C-labelled PCDDs and PCDFs all have chemical purities of >98% and isotopic purities of ≥99%. The 2,3,7,8-$^{37}Cl_4$-Tetrachlorodibenzo-p-dioxin has a chemical purity of >98% and an isotopic (^{37}Cl) purity of ≥95%.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

DOCUMENTATION/ DATA ATTACHED:

Table A: Components and Concentrations
Table B: 5-point HRGC/HRMS Calibration and RRF Summary
Table C: 7-point HRGC/HRMS Calibration and RRF Summary
Figure 1: HRGC/HRMS Data for EPA-1613CS3 (SIR; 10,000 mass resolving power)

ADDITIONAL INFORMATION:

- See page 3 for further details.

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a series of standards for the identification and quantification of specific chemical compounds.

HANDLING:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products, as well as mixtures and calibration solutions, are compared to older lots in a similar manner. This further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned values, and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2,...x_n on which it depends is:

$$u_c(y(x_1, x_2, ...x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ±5% (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analytes is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO 17034 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).

CALA Testing Accreditation No. A 1226

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Table A: **EPA-1613CVS (with EPA-1613CSL and EPA-1613CS0.5); Components and Concentrations (ng/ml, ± 5% in nonane/toluene)**

Compound	Concentration (ng/ml)						
Native PCDDs and PCDFs:	**CS1**	**CS2**	**CS3**	**CS4**	**CS5**	**CSL**	**CS0.5**
2,3,7,8-TCDD	0.5	2	10	40	200	0.1	0.25
2,3,7,8-TCDF	0.5	2	10	40	200	0.1	0.25
1,2,3,7,8-PeCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,7,8-PeCDF	2.5	10	50	200	1000	0.5	1.25
2,3,4,7,8-PeCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,7,8-HxCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,6,7,8-HxCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,7,8,9-HxCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,7,8-HxCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,6,7,8-HxCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,7,8,9-HxCDF	2.5	10	50	200	1000	0.5	1.25
2,3,4,6,7,8-HxCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,6,7,8-HpCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,6,7,8-HpCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,7,8,9-HpCDF	2.5	10	50	200	1000	0.5	1.25
OCDD	5.0	20	100	400	2000	1.0	2.5
OCDF	5.0	20	100	400	2000	1.0	2.5
Labelled PCDDs and PCDFs:							
$^{13}C_{12}$-2,3,7,8-TCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-2,3,7,8-TCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,7,8-PeCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,7,8-PeCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-2,3,4,7,8-PeCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-OCDD	200	200	200	200	200	200	200
Cleanup Standard:							
$^{37}Cl_4$-2,3,7,8-TCDD	0.5	2	10	40	200	0.1	0.25
Internal Standards:							
$^{13}C_{12}$-1,2,3,4-TCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	100	100	100	100	100	100	100
Percent toluene (v/v)	3.6%	3.7%	4.2%	6.1%	16.2%	3.6%	3.6%

Certified By: _____ **Date:** 10/25/2019
(mm/dd/yyyy)
B.G. Chittim, General Manager

Table B: **EPA-1613CVS; 5-point HRGC/HRMS Calibration and RRF Summary**

Calibration RRF Summary				Calibration Standard				
Calibration Filename: 24oct_EPA1613CVS-CAL.QLD				CS1	CS2	CS3	CS4	CS5
Name	Mean	S. D.	%RSD	RRF#1	RRF#2	RRF#3	RRF#4	RRF#5
2,3,7,8-TCDF	0.93	0.013	1.4	0.92	0.95	0.93	0.92	0.95
1,2,3,7,8-PeCDF	0.93	0.015	1.6	0.92	0.92	0.93	0.93	0.95
2,3,4,7,8-PeCDF	1.04	0.019	1.8	1.03	1.02	1.05	1.05	1.07
1,2,3,4,7,8-HxCDF	0.96	0.035	3.7	0.94	0.92	0.98	0.99	1.00
1,2,3,6,7,8-HxCDF	0.93	0.013	1.4	0.92	0.94	0.94	0.91	0.94
2,3,4,6,7,8-HxCDF	0.96	0.022	2.3	0.95	0.94	0.97	0.97	0.99
1,2,3,7,8,9-HxCDF	0.89	0.021	2.4	0.87	0.88	0.90	0.90	0.92
1,2,3,4,6,7,8-HpCDF	0.91	0.011	1.2	0.90	0.90	0.90	0.92	0.92
1,2,3,4,7,8,9-HpCDF	0.91	0.010	1.1	0.90	0.90	0.92	0.91	0.92
OCDF	1.19	0.056	4.7	1.11	1.17	1.19	1.23	1.26
2,3,7,8-TCDD	1.05	0.023	2.2	1.01	1.06	1.05	1.05	1.07
1,2,3,7,8-PeCDD	0.97	0.018	1.9	0.95	0.95	0.98	0.97	0.99
1,2,3,4,7,8-HxCDD	1.00	0.019	1.9	1.01	1.00	1.00	0.96	1.01
1,2,3,6,7,8-HxCDD	0.98	0.032	3.2	0.93	0.98	0.99	1.01	1.01
1,2,3,7,8,9-HxCDD	0.97	0.016	1.6	0.95	0.96	0.98	0.99	0.98
1,2,3,4,6,7,8-HpCDD	1.01	0.025	2.5	1.01	0.97	1.02	1.03	1.04
OCDD	1.00	0.013	1.3	1.00	0.99	1.02	1.02	1.00
$^{13}C_{12}$-2,3,7,8-TCDF	1.57	0.047	3.0	1.52	1.55	1.55	1.57	1.65
$^{13}C_{12}$-1,2,3,7,8-PeCDF	1.21	0.078	6.5	1.13	1.20	1.17	1.20	1.34
$^{13}C_{12}$-2,3,4,7,8-PeCDF	1.17	0.081	6.9	1.09	1.15	1.13	1.17	1.31
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	1.33	0.020	1.5	1.35	1.33	1.33	1.32	1.30
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	1.51	0.034	2.2	1.47	1.48	1.53	1.53	1.54
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	1.38	0.012	0.9	1.38	1.38	1.40	1.37	1.36
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	1.19	0.014	1.2	1.18	1.16	1.20	1.19	1.20
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	1.31	0.033	2.5	1.31	1.26	1.33	1.31	1.35
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	1.08	0.046	4.3	1.06	1.03	1.09	1.08	1.15
$^{13}C_{12}$-2,3,7,8-TCDD	1.13	0.036	3.2	1.10	1.11	1.11	1.13	1.19
$^{13}C_{12}$-1,2,3,7,8-PeCDD	0.79	0.047	5.9	0.74	0.78	0.75	0.79	0.86
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	0.87	0.027	3.1	0.85	0.83	0.89	0.88	0.89
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	1.04	0.010	1.0	1.05	1.05	1.04	1.05	1.03
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	0.81	0.017	2.1	0.81	0.80	0.80	0.81	0.84
$^{13}C_{12}$-OCDD	0.74	0.055	7.4	0.70	0.70	0.73	0.72	0.83
$^{13}C_{12}$-1,2,3,4-TCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00
$^{37}Cl_4$-2,3,7,8-TCDD	0.97	0.026	2.6	0.95	0.94	0.99	0.99	0.99

Table C: **EPA-1613CVS (with EPA-1613CSL and EPA-1613CS0.5); 7-point HRGC/HRMS Calibration and RRF Summary**

Calibration RRF Summary				Calibration Standard						
Calibration Filename: 24oct_EPA1613CVS-CAL.QLD				CSL	CS0.5	CS1	CS2	CS3	CS4	CS5
Name	Mean	S. D.	%RSD	RRF#1	RRF#2	RRF#3	RRF#4	RRF#5	RRF#6	RRF#7
2,3,7,8-TCDF	0.92	0.045	4.8	0.96	0.83	0.92	0.95	0.93	0.92	0.95
1,2,3,7,8-PeCDF	0.93	0.013	1.4	0.94	0.92	0.92	0.92	0.93	0.93	0.95
2,3,4,7,8-PeCDF	1.02	0.058	5.7	0.90	1.00	1.03	1.02	1.05	1.05	1.07
1,2,3,4,7,8-HxCDF	0.96	0.029	3.0	0.96	0.97	0.94	0.92	0.98	0.99	1.00
1,2,3,6,7,8-HxCDF	0.92	0.030	3.3	0.90	0.86	0.92	0.94	0.94	0.91	0.94
2,3,4,6,7,8-HxCDF	0.94	0.047	5.0	0.87	0.89	0.95	0.94	0.97	0.97	0.99
1,2,3,7,8,9-HxCDF	0.88	0.029	3.3	0.83	0.88	0.87	0.88	0.90	0.90	0.92
1,2,3,4,6,7,8-HpCDF	0.90	0.033	3.7	0.83	0.93	0.90	0.90	0.90	0.92	0.92
1,2,3,4,7,8,9-HpCDF	0.91	0.018	1.9	0.89	0.94	0.90	0.90	0.92	0.91	0.92
OCDF	1.18	0.052	4.4	1.15	1.14	1.11	1.17	1.19	1.23	1.26
2,3,7,8-TCDD	1.03	0.051	5.0	1.03	0.92	1.01	1.06	1.05	1.05	1.07
1,2,3,7,8-PeCDD	0.95	0.042	4.4	0.87	0.98	0.95	0.95	0.98	0.97	0.99
1,2,3,4,7,8-HxCDD	0.97	0.066	6.8	0.83	0.98	1.01	1.00	1.00	0.96	1.01
1,2,3,6,7,8-HxCDD	0.96	0.044	4.5	0.90	0.92	0.93	0.98	0.99	1.01	1.01
1,2,3,7,8,9-HxCDD	0.94	0.054	5.7	0.83	0.92	0.95	0.96	0.98	0.99	0.98
1,2,3,4,6,7,8-HpCDD	1.01	0.033	3.3	0.95	1.03	1.01	0.97	1.02	1.03	1.04
OCDD	1.00	0.023	2.3	0.95	1.00	1.00	0.99	1.02	1.02	1.00
$^{13}C_{12}$-2,3,7,8-TCDF	1.56	0.042	2.7	1.52	1.54	1.52	1.55	1.55	1.57	1.65
$^{13}C_{12}$-1,2,3,7,8-PeCDF	1.20	0.066	5.5	1.18	1.17	1.13	1.20	1.17	1.20	1.34
$^{13}C_{12}$-2,3,4,7,8-PeCDF	1.16	0.071	6.1	1.12	1.13	1.09	1.15	1.13	1.17	1.31
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	1.33	0.018	1.4	1.32	1.35	1.35	1.33	1.33	1.32	1.30
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	1.53	0.045	3.0	1.60	1.56	1.47	1.48	1.53	1.53	1.54
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	1.39	0.019	1.4	1.39	1.42	1.38	1.38	1.40	1.37	1.36
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	1.19	0.012	1.0	1.19	1.19	1.18	1.16	1.20	1.19	1.20
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	1.31	0.028	2.2	1.30	1.33	1.31	1.26	1.33	1.31	1.35
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	1.07	0.045	4.2	1.02	1.08	1.06	1.03	1.09	1.08	1.15
$^{13}C_{12}$-2,3,7,8-TCDD	1.12	0.033	3.0	1.09	1.11	1.10	1.11	1.11	1.13	1.19
$^{13}C_{12}$-1,2,3,7,8-PeCDD	0.78	0.040	5.1	0.75	0.78	0.74	0.78	0.75	0.79	0.86
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	0.87	0.025	2.9	0.86	0.90	0.85	0.83	0.89	0.88	0.89
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	1.05	0.015	1.5	1.08	1.06	1.05	1.05	1.04	1.05	1.03
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	0.81	0.016	2.0	0.79	0.81	0.81	0.80	0.80	0.81	0.84
$^{13}C_{12}$-OCDD	0.73	0.046	6.3	0.71	0.72	0.70	0.70	0.73	0.72	0.83
$^{13}C_{12}$-1,2,3,4-TCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
$^{37}Cl_4$-2,3,7,8-TCDD	0.97	0.053	5.4	0.90	1.07	0.95	0.94	0.99	0.99	0.99

Figure 1: **EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**

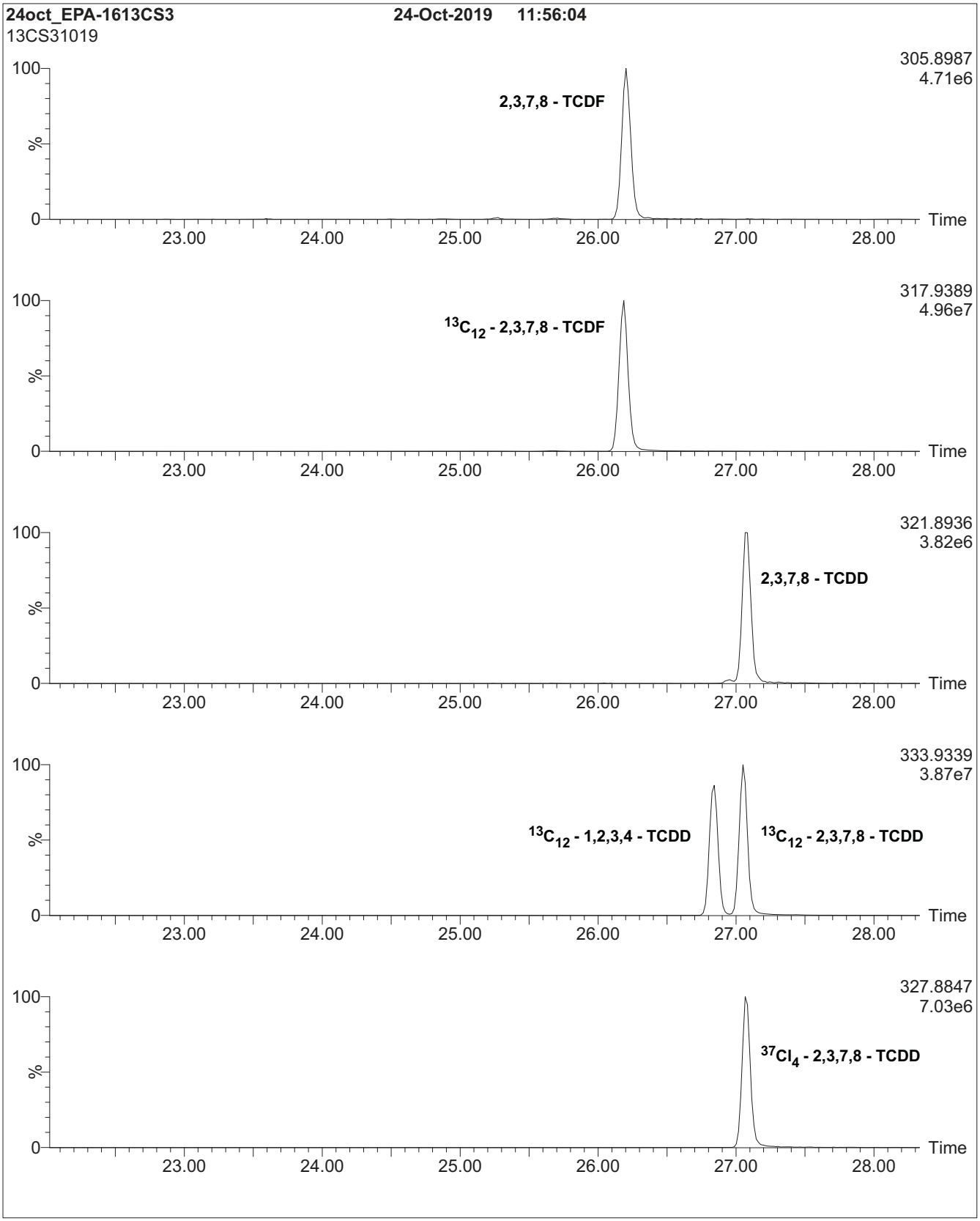


Figure 1: **EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**

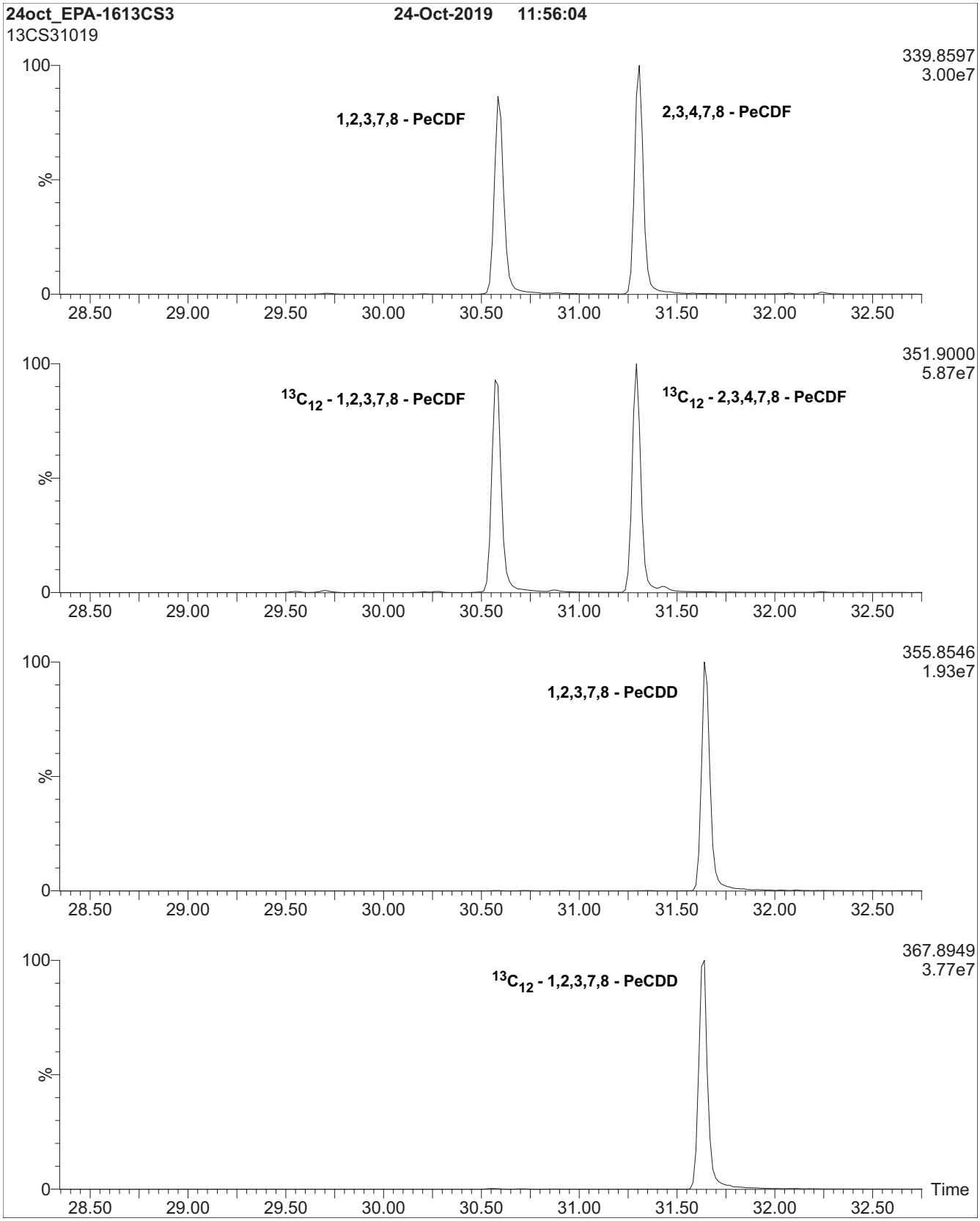


Figure 1: **EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**

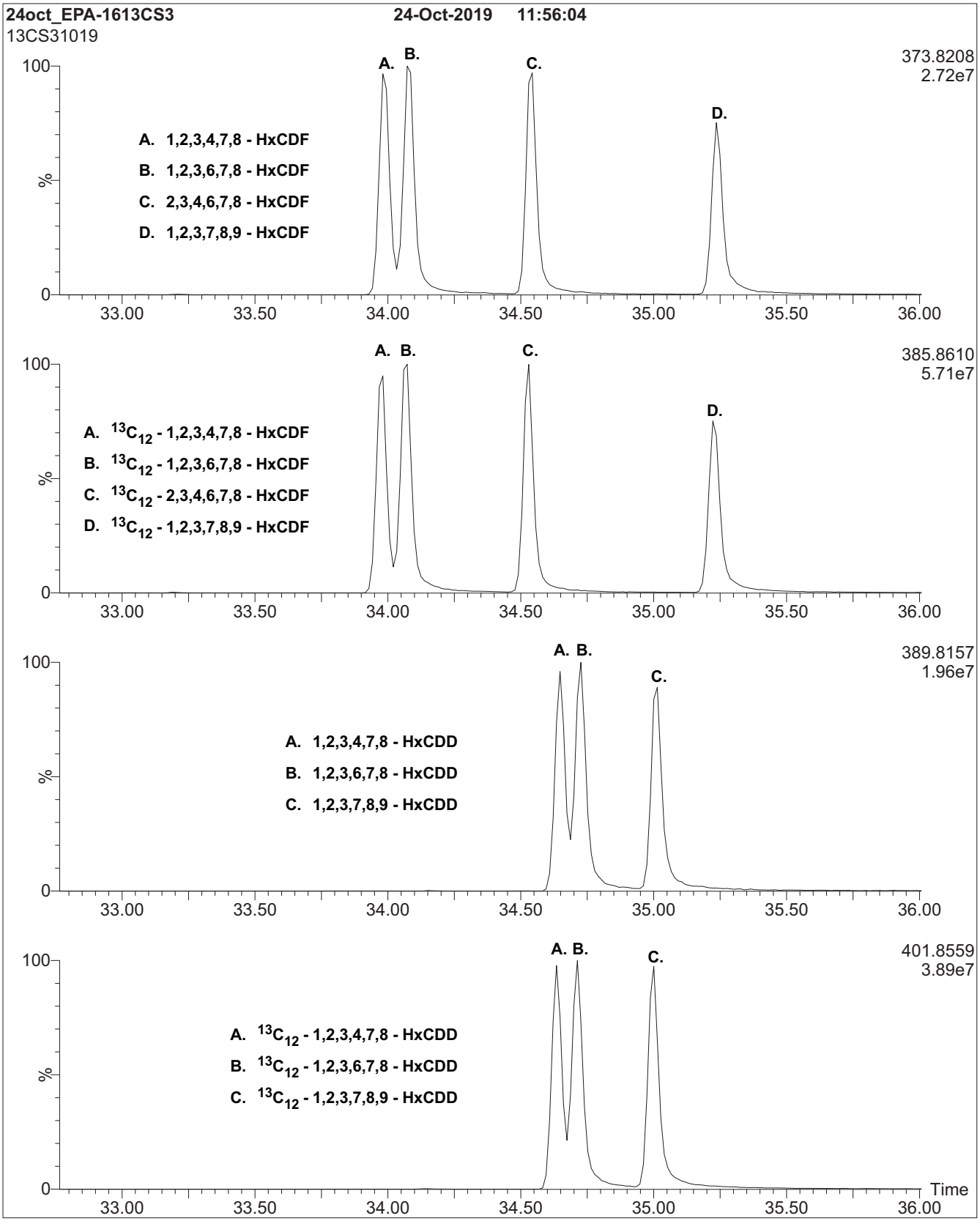


Figure 1: **EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**

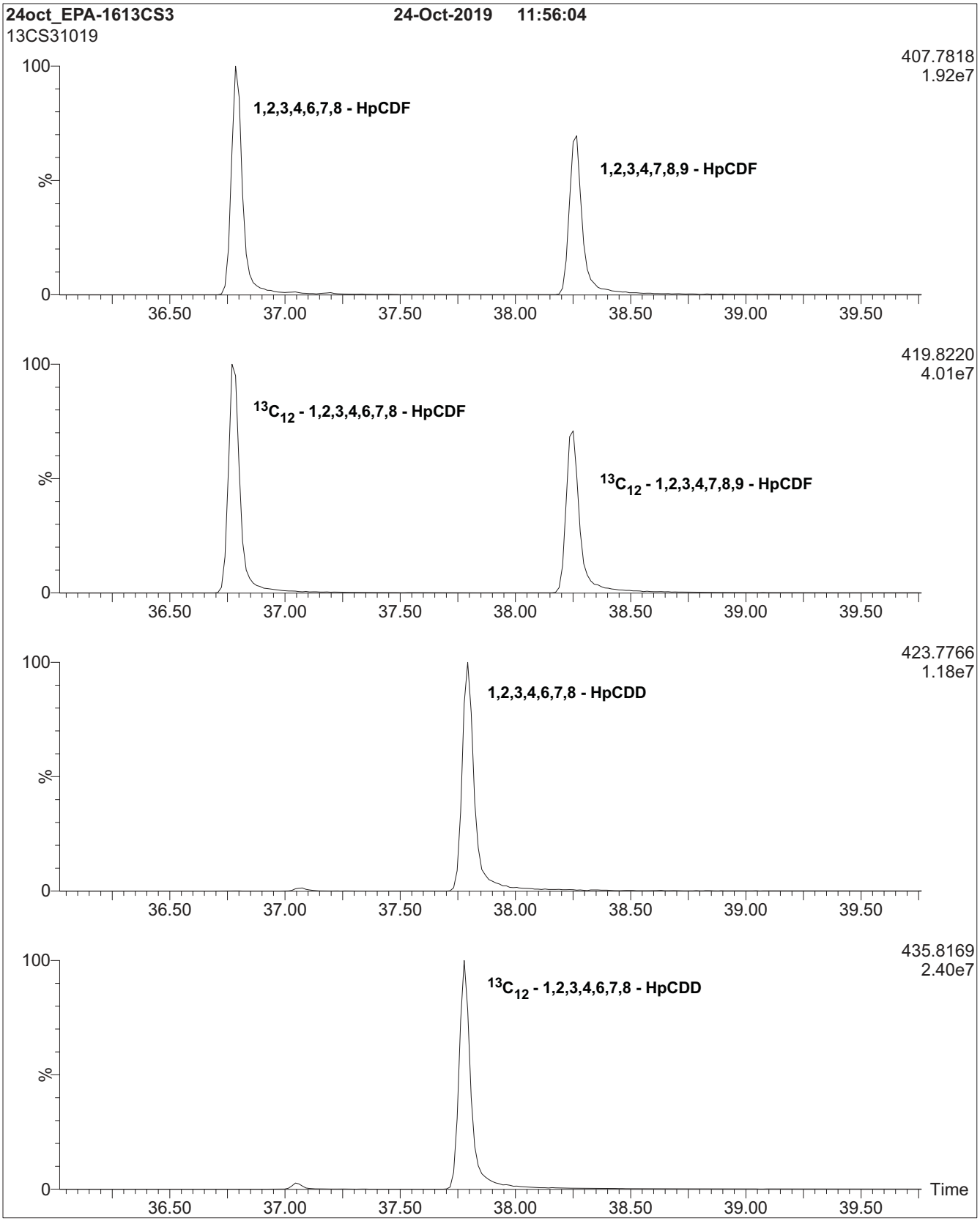
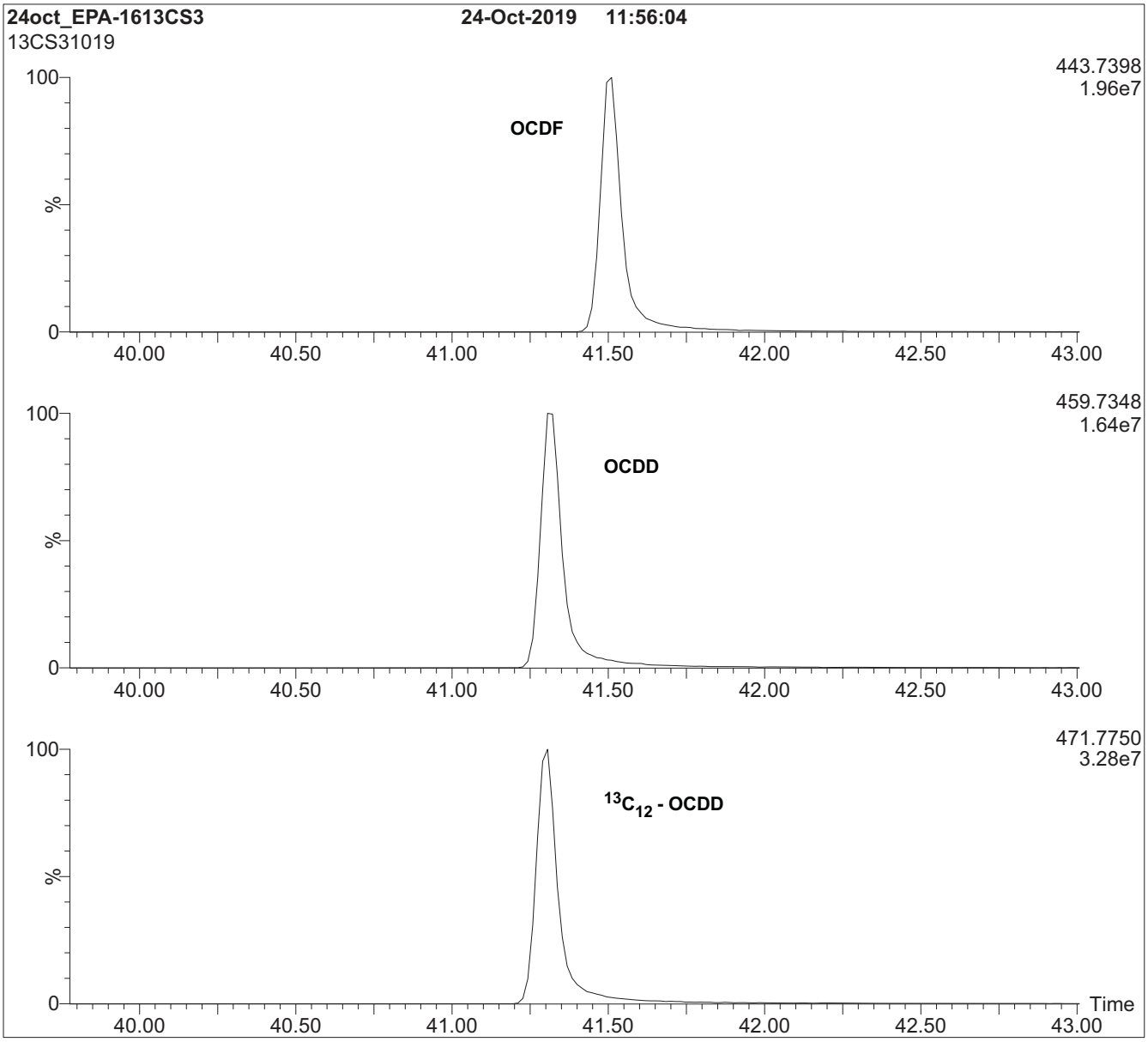


Figure 1: **EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**



HRGC/HRMS:

Agilent 6890N (HRGC)
Autospec Ultima (HRMS)

Chromatographic Conditions:

Column: 60 m DB-5 (0.25 mm id, 0.25 µm film thickness) Agilent J&W

Flow: Constant at 1 ml/min
Injector: 280 °C (Splitless Injection)
Ionization: EI+
Detector: 280 °C
SIR at 10,000 mass resolving power

Oven: 150 °C (1 min)
12 °C/min to 200 °C
3 °C/min to 235 °C
235 °C (8 min)
8 °C/min to 310 °C
310 °C (8 min)

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

EPA-1613CVS

U.S. EPA Method 1613 Calibration and Verification Solutions
plus Supplemental Calibration Solutions EPA-1613CSL & EPA-1613CS0.5

PRODUCT CODES:	EPA-1613CVS	**LOT NUMBERS:**	(see below)
	EPA-1613CS1		13CS11019
	EPA-1613CS2		13CS21019
	EPA-1613CS3		13CS31019
	EPA-1613CS4		13CS41019
	EPA-1613CS5		13CS51019

Note: EPA-1613CSL and EPA-1613CS0.5 are lower level extensions to this calibration set that must be ordered separately.

EPA-1613CS0.5	13CS0.51019
EPA-1613CSL	13CSL1019

SOLVENT(S):	Nonane/Toluene
DATE PREPARED: (mm/dd/yyyy)	10/22/2019
LAST TESTED: (mm/dd/yyyy)	10/24/2019
EXPIRY DATE: (mm/dd/yyyy)	10/24/2026
RECOMMENDED STORAGE:	Store ampoules in a cool, dark place

I005458
1613 CS4 CAL STD
Expires 10/24/2026
Prepared By Joshua Rains 6/23/2020

DESCRIPTION:

EPA-1613CVS is a series of 5 calibration solutions containing native ($^{12}C_{12}$) and mass-labelled ($^{13}C_{12}$ and $^{37}Cl_4$) chlorinated dibenzo-p-dioxins (PCDDs) and dibenzofurans (PCDFs). The components of each solution, and their concentrations, are given in Table A.

They were designed for, and prepared to be used according to, U.S. EPA Method 1613 (Revision B). They are to be used as received.

EPA-1613CSL and EPA-1613CS0.5 are lower level extensions to EPA-1613CVS. Neither is required by the method, but either or both can be used to extend the calibration to lower levels.

The individual native PCDDs and PCDFs all have chemical purities of >98%. The individual ^{13}C-labelled PCDDs and PCDFs all have chemical purities of >98% and isotopic purities of ≥99%. The 2,3,7,8-$^{37}Cl_4$-Tetrachlorodibenzo-p-dioxin has a chemical purity of >98% and an isotopic (^{37}Cl) purity of ≥95%.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

DOCUMENTATION/ DATA ATTACHED:

Table A: Components and Concentrations
Table B: 5-point HRGC/HRMS Calibration and RRF Summary
Table C: 7-point HRGC/HRMS Calibration and RRF Summary
Figure 1: HRGC/HRMS Data for EPA-1613CS3 (SIR; 10,000 mass resolving power)

ADDITIONAL INFORMATION:

- See page 3 for further details.

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a series of standards for the identification and quantification of specific chemical compounds.

HANDLING:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products, as well as mixtures and calibration solutions, are compared to older lots in a similar manner. This further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned values, and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2,...x_n on which it depends is:

$$u_c(y(x_1, x_2, ...x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ±5% (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analytes is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO 17034 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).

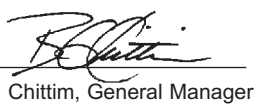
CALA Testing Accreditation No. A 1226

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Table A: **EPA-1613CVS (with EPA-1613CSL and EPA-1613CS0.5); Components and Concentrations (ng/ml, ± 5% in nonane/toluene)**

Compound	Concentration (ng/ml)						
Native PCDDs and PCDFs:	**CS1**	**CS2**	**CS3**	**CS4**	**CS5**	**CSL**	**CS0.5**
2,3,7,8-TCDD	0.5	2	10	40	200	0.1	0.25
2,3,7,8-TCDF	0.5	2	10	40	200	0.1	0.25
1,2,3,7,8-PeCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,7,8-PeCDF	2.5	10	50	200	1000	0.5	1.25
2,3,4,7,8-PeCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,7,8-HxCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,6,7,8-HxCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,7,8,9-HxCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,7,8-HxCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,6,7,8-HxCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,7,8,9-HxCDF	2.5	10	50	200	1000	0.5	1.25
2,3,4,6,7,8-HxCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,6,7,8-HpCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,6,7,8-HpCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,7,8,9-HpCDF	2.5	10	50	200	1000	0.5	1.25
OCDD	5.0	20	100	400	2000	1.0	2.5
OCDF	5.0	20	100	400	2000	1.0	2.5
Labelled PCDDs and PCDFs:							
$^{13}C_{12}$-2,3,7,8-TCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-2,3,7,8-TCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,7,8-PeCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,7,8-PeCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-2,3,4,7,8-PeCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-OCDD	200	200	200	200	200	200	200
Cleanup Standard:							
$^{37}Cl_4$-2,3,7,8-TCDD	0.5	2	10	40	200	0.1	0.25
Internal Standards:							
$^{13}C_{12}$-1,2,3,4-TCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	100	100	100	100	100	100	100
Percent toluene (v/v)	3.6%	3.7%	4.2%	6.1%	16.2%	3.6%	3.6%

Certified By:  **Date:** 10/25/2019
(mm/dd/yyyy)

B.G. Chittim, General Manager

Table B: **EPA-1613CVS; 5-point HRGC/HRMS Calibration and RRF Summary**

Calibration RRF Summary				Calibration Standard				
Calibration Filename: 24oct_EPA1613CVS-CAL.QLD				CS1	CS2	CS3	CS4	CS5
Name	Mean	S. D.	%RSD	RRF#1	RRF#2	RRF#3	RRF#4	RRF#5
2,3,7,8-TCDF	0.93	0.013	1.4	0.92	0.95	0.93	0.92	0.95
1,2,3,7,8-PeCDF	0.93	0.015	1.6	0.92	0.92	0.93	0.93	0.95
2,3,4,7,8-PeCDF	1.04	0.019	1.8	1.03	1.02	1.05	1.05	1.07
1,2,3,4,7,8-HxCDF	0.96	0.035	3.7	0.94	0.92	0.98	0.99	1.00
1,2,3,6,7,8-HxCDF	0.93	0.013	1.4	0.92	0.94	0.94	0.91	0.94
2,3,4,6,7,8-HxCDF	0.96	0.022	2.3	0.95	0.94	0.97	0.97	0.99
1,2,3,7,8,9-HxCDF	0.89	0.021	2.4	0.87	0.88	0.90	0.90	0.92
1,2,3,4,6,7,8-HpCDF	0.91	0.011	1.2	0.90	0.90	0.90	0.92	0.92
1,2,3,4,7,8,9-HpCDF	0.91	0.010	1.1	0.90	0.90	0.92	0.91	0.92
OCDF	1.19	0.056	4.7	1.11	1.17	1.19	1.23	1.26
2,3,7,8-TCDD	1.05	0.023	2.2	1.01	1.06	1.05	1.05	1.07
1,2,3,7,8-PeCDD	0.97	0.018	1.9	0.95	0.95	0.98	0.97	0.99
1,2,3,4,7,8-HxCDD	1.00	0.019	1.9	1.01	1.00	1.00	0.96	1.01
1,2,3,6,7,8-HxCDD	0.98	0.032	3.2	0.93	0.98	0.99	1.01	1.01
1,2,3,7,8,9-HxCDD	0.97	0.016	1.6	0.95	0.96	0.98	0.99	0.98
1,2,3,4,6,7,8-HpCDD	1.01	0.025	2.5	1.01	0.97	1.02	1.03	1.04
OCDD	1.00	0.013	1.3	1.00	0.99	1.02	1.02	1.00
$^{13}C_{12}$-2,3,7,8-TCDF	1.57	0.047	3.0	1.52	1.55	1.55	1.57	1.65
$^{13}C_{12}$-1,2,3,7,8-PeCDF	1.21	0.078	6.5	1.13	1.20	1.17	1.20	1.34
$^{13}C_{12}$-2,3,4,7,8-PeCDF	1.17	0.081	6.9	1.09	1.15	1.13	1.17	1.31
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	1.33	0.020	1.5	1.35	1.33	1.33	1.32	1.30
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	1.51	0.034	2.2	1.47	1.48	1.53	1.53	1.54
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	1.38	0.012	0.9	1.38	1.38	1.40	1.37	1.36
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	1.19	0.014	1.2	1.18	1.16	1.20	1.19	1.20
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	1.31	0.033	2.5	1.31	1.26	1.33	1.31	1.35
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	1.08	0.046	4.3	1.06	1.03	1.09	1.08	1.15
$^{13}C_{12}$-2,3,7,8-TCDD	1.13	0.036	3.2	1.10	1.11	1.11	1.13	1.19
$^{13}C_{12}$-1,2,3,7,8-PeCDD	0.79	0.047	5.9	0.74	0.78	0.75	0.79	0.86
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	0.87	0.027	3.1	0.85	0.83	0.89	0.88	0.89
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	1.04	0.010	1.0	1.05	1.05	1.04	1.05	1.03
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	0.81	0.017	2.1	0.81	0.80	0.80	0.81	0.84
$^{13}C_{12}$-OCDD	0.74	0.055	7.4	0.70	0.70	0.73	0.72	0.83
$^{13}C_{12}$-1,2,3,4-TCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00
$^{37}Cl_4$-2,3,7,8-TCDD	0.97	0.026	2.6	0.95	0.94	0.99	0.99	0.99

Table C: **EPA-1613CVS (with EPA-1613CSL and EPA-1613CS0.5); 7-point HRGC/HRMS Calibration and RRF Summary**

Calibration RRF Summary				Calibration Standard						
Calibration Filename: 24oct_EPA1613CVS-CAL.QLD				CSL	CS0.5	CS1	CS2	CS3	CS4	CS5
Name	Mean	S. D.	%RSD	RRF#1	RRF#2	RRF#3	RRF#4	RRF#5	RRF#6	RRF#7
2,3,7,8-TCDF	0.92	0.045	4.8	0.96	0.83	0.92	0.95	0.93	0.92	0.95
1,2,3,7,8-PeCDF	0.93	0.013	1.4	0.94	0.92	0.92	0.92	0.93	0.93	0.95
2,3,4,7,8-PeCDF	1.02	0.058	5.7	0.90	1.00	1.03	1.02	1.05	1.05	1.07
1,2,3,4,7,8-HxCDF	0.96	0.029	3.0	0.96	0.97	0.94	0.92	0.98	0.99	1.00
1,2,3,6,7,8-HxCDF	0.92	0.030	3.3	0.90	0.86	0.92	0.94	0.94	0.91	0.94
2,3,4,6,7,8-HxCDF	0.94	0.047	5.0	0.87	0.89	0.95	0.94	0.97	0.97	0.99
1,2,3,7,8,9-HxCDF	0.88	0.029	3.3	0.83	0.88	0.87	0.88	0.90	0.90	0.92
1,2,3,4,6,7,8-HpCDF	0.90	0.033	3.7	0.83	0.93	0.90	0.90	0.90	0.92	0.92
1,2,3,4,7,8,9-HpCDF	0.91	0.018	1.9	0.89	0.94	0.90	0.90	0.92	0.91	0.92
OCDF	1.18	0.052	4.4	1.15	1.14	1.11	1.17	1.19	1.23	1.26
2,3,7,8-TCDD	1.03	0.051	5.0	1.03	0.92	1.01	1.06	1.05	1.05	1.07
1,2,3,7,8-PeCDD	0.95	0.042	4.4	0.87	0.98	0.95	0.95	0.98	0.97	0.99
1,2,3,4,7,8-HxCDD	0.97	0.066	6.8	0.83	0.98	1.01	1.00	1.00	0.96	1.01
1,2,3,6,7,8-HxCDD	0.96	0.044	4.5	0.90	0.92	0.93	0.98	0.99	1.01	1.01
1,2,3,7,8,9-HxCDD	0.94	0.054	5.7	0.83	0.92	0.95	0.96	0.98	0.99	0.98
1,2,3,4,6,7,8-HpCDD	1.01	0.033	3.3	0.95	1.03	1.01	0.97	1.02	1.03	1.04
OCDD	1.00	0.023	2.3	0.95	1.00	1.00	0.99	1.02	1.02	1.00
$^{13}C_{12}$-2,3,7,8-TCDF	1.56	0.042	2.7	1.52	1.54	1.52	1.55	1.55	1.57	1.65
$^{13}C_{12}$-1,2,3,7,8-PeCDF	1.20	0.066	5.5	1.18	1.17	1.13	1.20	1.17	1.20	1.34
$^{13}C_{12}$-2,3,4,7,8-PeCDF	1.16	0.071	6.1	1.12	1.13	1.09	1.15	1.13	1.17	1.31
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	1.33	0.018	1.4	1.32	1.35	1.35	1.33	1.33	1.32	1.30
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	1.53	0.045	3.0	1.60	1.56	1.47	1.48	1.53	1.53	1.54
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	1.39	0.019	1.4	1.39	1.42	1.38	1.38	1.40	1.37	1.36
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	1.19	0.012	1.0	1.19	1.19	1.18	1.16	1.20	1.19	1.20
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	1.31	0.028	2.2	1.30	1.33	1.31	1.26	1.33	1.31	1.35
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	1.07	0.045	4.2	1.02	1.08	1.06	1.03	1.09	1.08	1.15
$^{13}C_{12}$-2,3,7,8-TCDD	1.12	0.033	3.0	1.09	1.11	1.10	1.11	1.11	1.13	1.19
$^{13}C_{12}$-1,2,3,7,8-PeCDD	0.78	0.040	5.1	0.75	0.78	0.74	0.78	0.75	0.79	0.86
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	0.87	0.025	2.9	0.86	0.90	0.85	0.83	0.89	0.88	0.89
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	1.05	0.015	1.5	1.08	1.06	1.05	1.05	1.04	1.05	1.03
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	0.81	0.016	2.0	0.79	0.81	0.81	0.80	0.80	0.81	0.84
$^{13}C_{12}$-OCDD	0.73	0.046	6.3	0.71	0.72	0.70	0.70	0.73	0.72	0.83
$^{13}C_{12}$-1,2,3,4-TCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
$^{37}Cl_4$-2,3,7,8-TCDD	0.97	0.053	5.4	0.90	1.07	0.95	0.94	0.99	0.99	0.99

Figure 1: **EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**

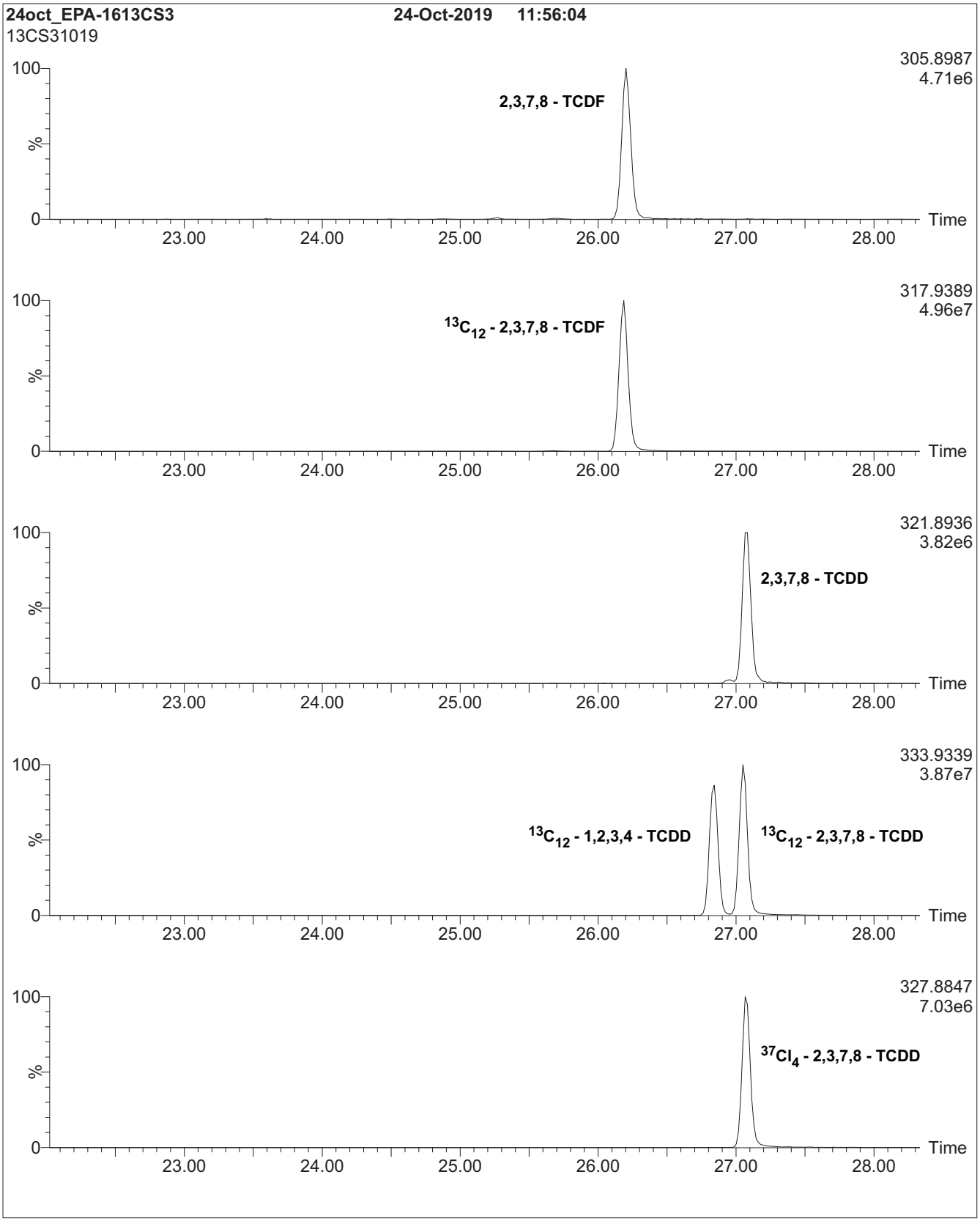


Figure 1: **EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**

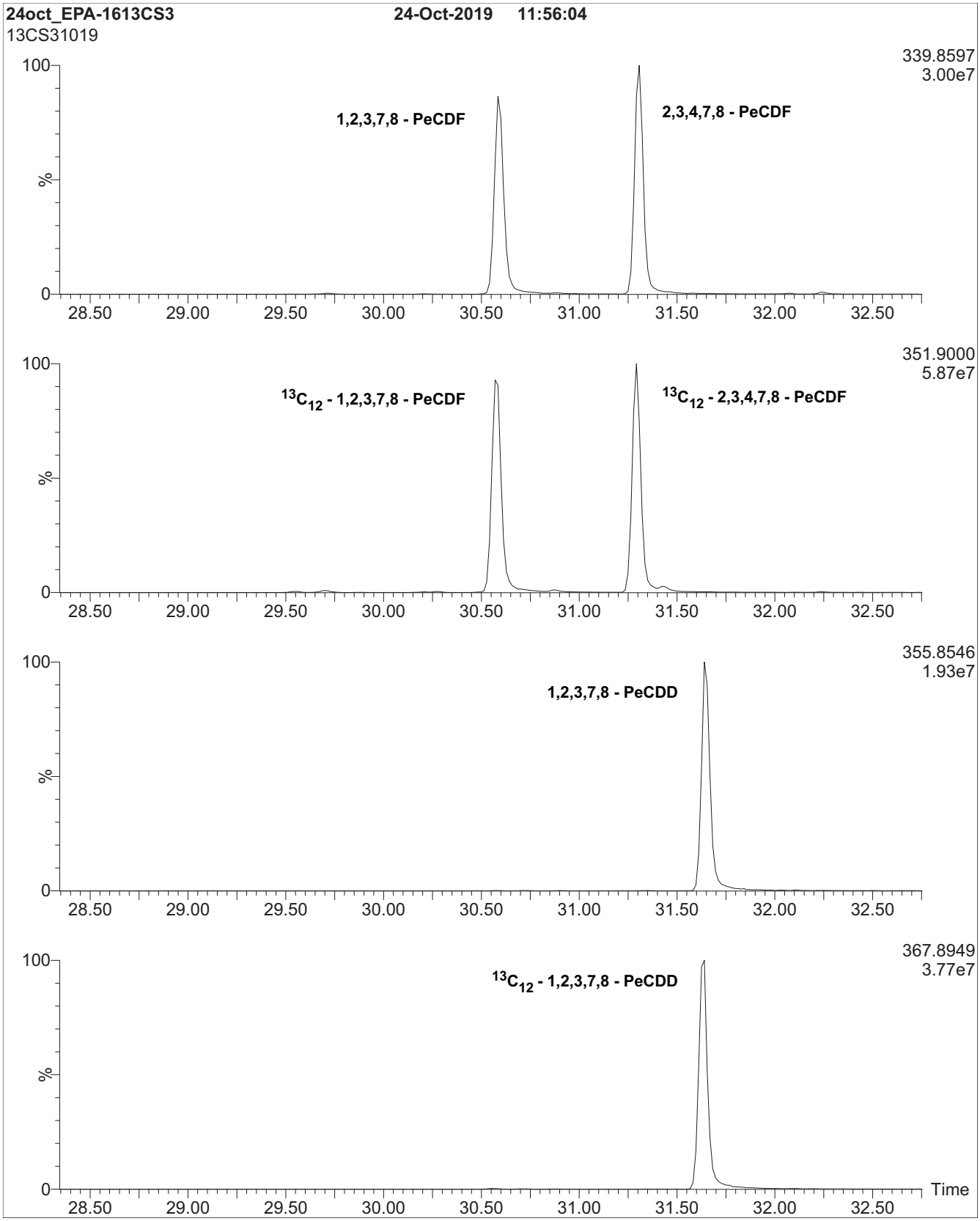


Figure 1: **EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**

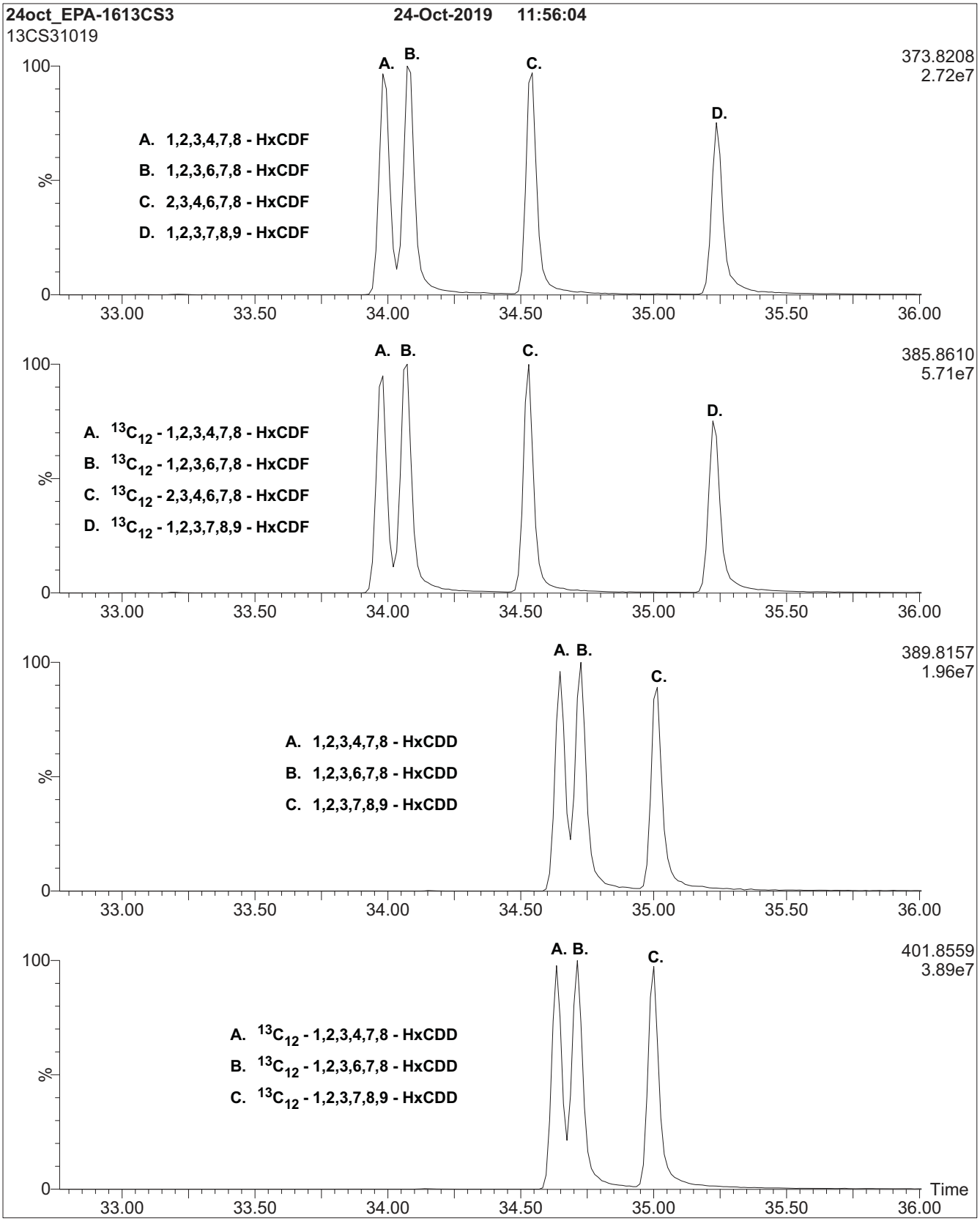


Figure 1: **EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**

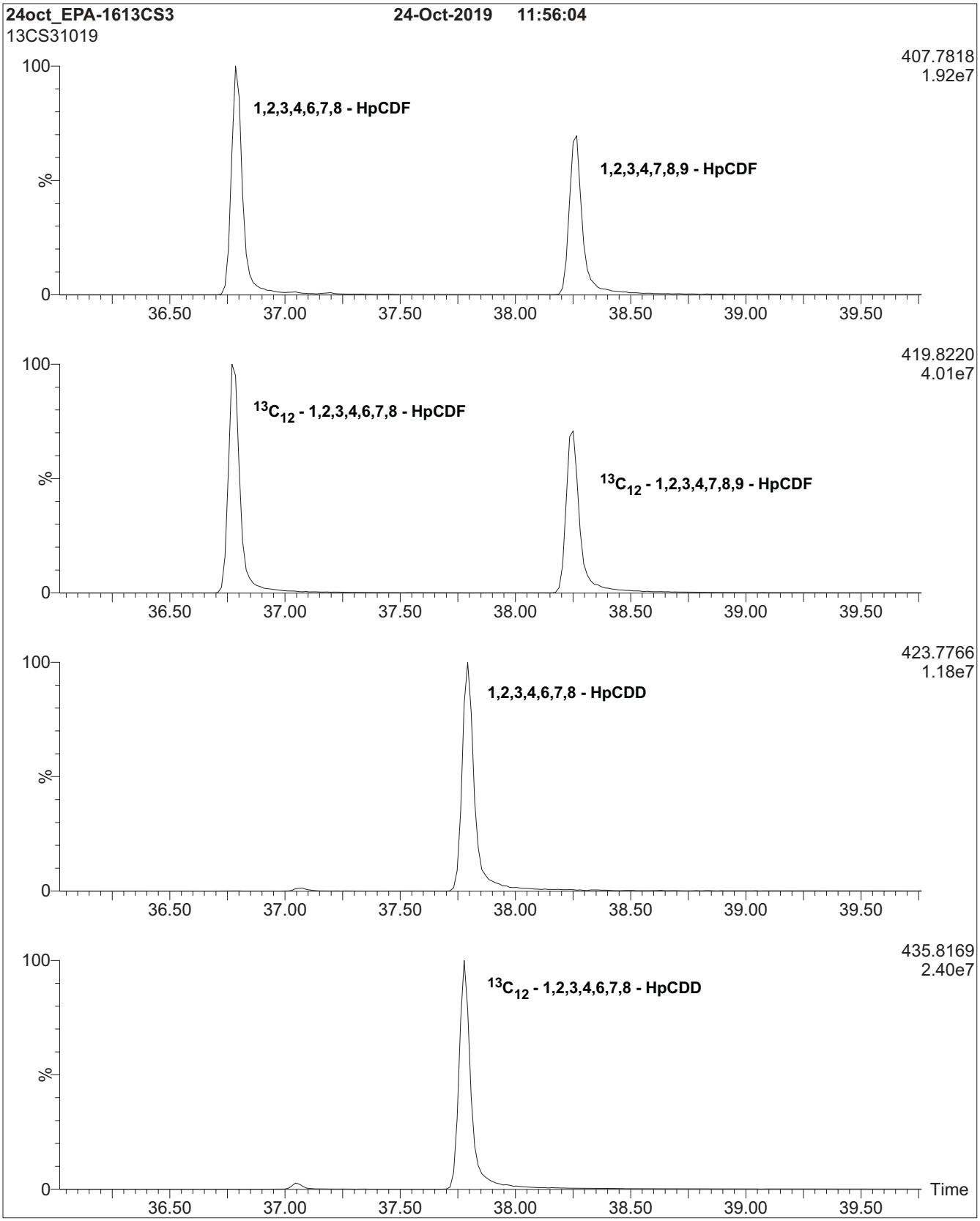
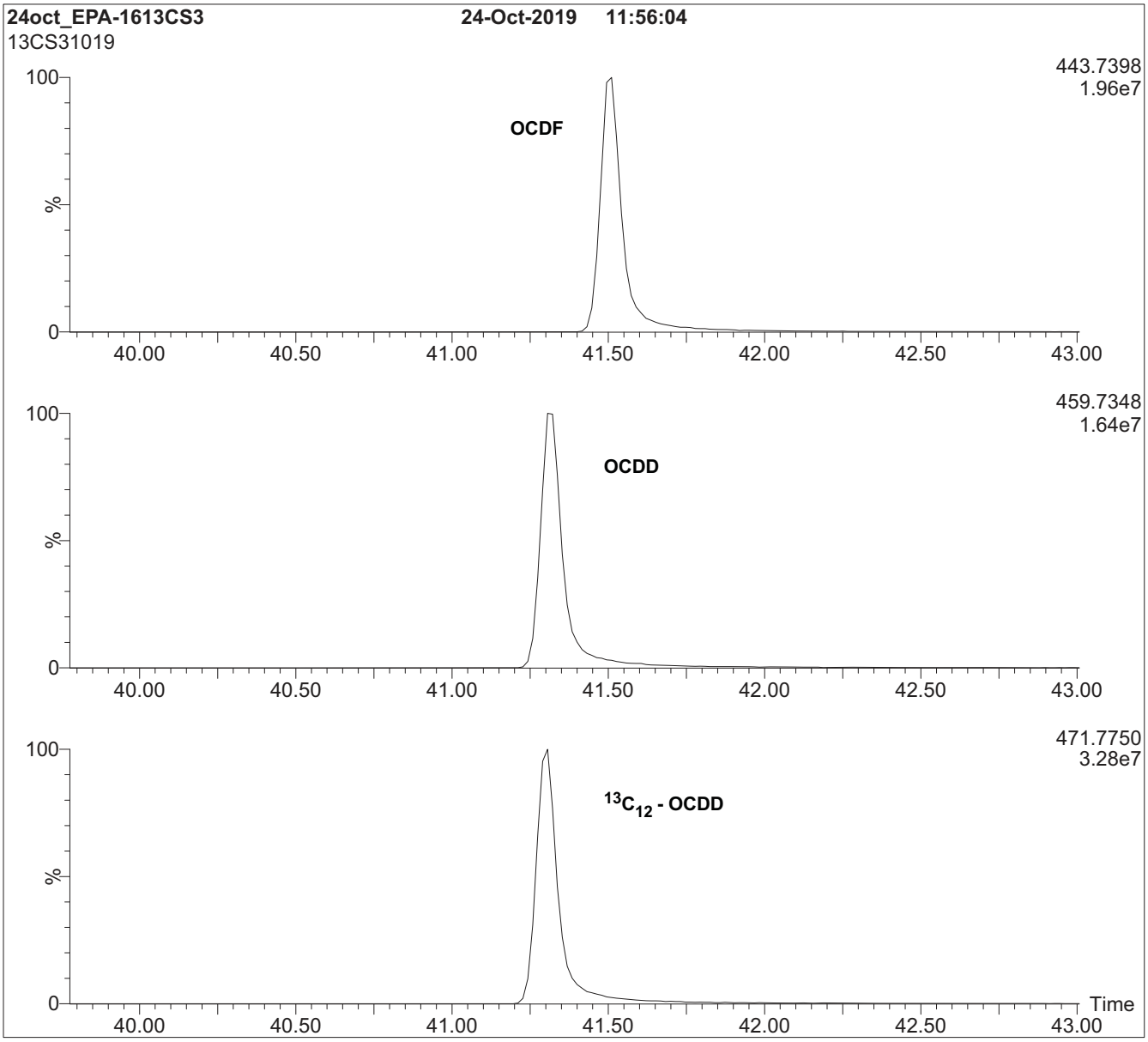


Figure 1: **EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**



HRGC/HRMS:

Agilent 6890N (HRGC)
Autospec Ultima (HRMS)

Chromatographic Conditions:

Column: 60 m DB-5 (0.25 mm id, 0.25 µm film thickness) Agilent J&W

Flow:	Constant at 1 ml/min	Oven:	150 °C (1 min)
Injector:	280 °C (Splitless Injection)		12 °C/min to 200 °C
Ionization:	EI+		3 °C/min to 235 °C
Detector:	280 °C		235 °C (8 min)
	SIR at 10,000 mass resolving power		8 °C/min to 310 °C
			310 °C (8 min)

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

EPA-1613CVS

U.S. EPA Method 1613 Calibration and Verification Solutions
plus Supplemental Calibration Solutions EPA-1613CSL & EPA-1613CS0.5

PRODUCT CODES:	EPA-1613CVS	**LOT NUMBERS:**	(see below)
	EPA-1613CS1		13CS11019
	EPA-1613CS2		13CS21019
	EPA-1613CS3		13CS31019
	EPA-1613CS4		13CS41019
	EPA-1613CS5		13CS51019

Note: EPA-1613CSL and EPA-1613CS0.5 are lower level extensions to this calibration set that must be ordered separately.

EPA-1613CS0.5	13CS0.51019
EPA-1613CSL	13CSL1019

SOLVENT(S):	Nonane/Toluene
DATE PREPARED: (mm/dd/yyyy)	10/22/2019
LAST TESTED: (mm/dd/yyyy)	10/24/2019
EXPIRY DATE: (mm/dd/yyyy)	10/24/2026
RECOMMENDED STORAGE:	Store ampoules in a cool, dark place

I005459
1613 CS5 CAL STD
Expires 10/24/2026
Prepared By Joshua Rains 6/23/2020

DESCRIPTION:

EPA-1613CVS is a series of 5 calibration solutions containing native ($^{12}C_{12}$) and mass-labelled ($^{13}C_{12}$ and $^{37}Cl_4$) chlorinated dibenzo-p-dioxins (PCDDs) and dibenzofurans (PCDFs). The components of each solution, and their concentrations, are given in Table A.

They were designed for, and prepared to be used according to, U.S. EPA Method 1613 (Revision B). They are to be used as received.

EPA-1613CSL and EPA-1613CS0.5 are lower level extensions to EPA-1613CVS. Neither is required by the method, but either or both can be used to extend the calibration to lower levels.

The individual native PCDDs and PCDFs all have chemical purities of >98%. The individual ^{13}C-labelled PCDDs and PCDFs all have chemical purities of >98% and isotopic purities of ≥99%. The 2,3,7,8-$^{37}Cl_4$-Tetrachlorodibenzo-p-dioxin has a chemical purity of >98% and an isotopic (^{37}Cl) purity of ≥95%.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

DOCUMENTATION/ DATA ATTACHED:

Table A: Components and Concentrations
Table B: 5-point HRGC/HRMS Calibration and RRF Summary
Table C: 7-point HRGC/HRMS Calibration and RRF Summary
Figure 1: HRGC/HRMS Data for EPA-1613CS3 (SIR; 10,000 mass resolving power)

ADDITIONAL INFORMATION:

- See page 3 for further details.

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a series of standards for the identification and quantification of specific chemical compounds.

HANDLING:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products, as well as mixtures and calibration solutions, are compared to older lots in a similar manner. This further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned values, and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2,...x_n on which it depends is:

$$u_c(y(x_1, x_2, ...x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ±5% (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analytes is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO 17034 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).

CALA Testing Accreditation No. A 1226

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Table A: **EPA-1613CVS (with EPA-1613CSL and EPA-1613CS0.5); Components and Concentrations (ng/ml, ± 5% in nonane/toluene)**

Compound	Concentration (ng/ml)						
Native PCDDs and PCDFs:	**CS1**	**CS2**	**CS3**	**CS4**	**CS5**	**CSL**	**CS0.5**
2,3,7,8-TCDD	0.5	2	10	40	200	0.1	0.25
2,3,7,8-TCDF	0.5	2	10	40	200	0.1	0.25
1,2,3,7,8-PeCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,7,8-PeCDF	2.5	10	50	200	1000	0.5	1.25
2,3,4,7,8-PeCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,7,8-HxCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,6,7,8-HxCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,7,8,9-HxCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,7,8-HxCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,6,7,8-HxCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,7,8,9-HxCDF	2.5	10	50	200	1000	0.5	1.25
2,3,4,6,7,8-HxCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,6,7,8-HpCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,6,7,8-HpCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,7,8,9-HpCDF	2.5	10	50	200	1000	0.5	1.25
OCDD	5.0	20	100	400	2000	1.0	2.5
OCDF	5.0	20	100	400	2000	1.0	2.5
Labelled PCDDs and PCDFs:							
$^{13}C_{12}$-2,3,7,8-TCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-2,3,7,8-TCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,7,8-PeCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,7,8-PeCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-2,3,4,7,8-PeCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-OCDD	200	200	200	200	200	200	200
Cleanup Standard:							
$^{37}Cl_4$-2,3,7,8-TCDD	0.5	2	10	40	200	0.1	0.25
Internal Standards:							
$^{13}C_{12}$-1,2,3,4-TCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	100	100	100	100	100	100	100
Percent toluene (v/v)	3.6%	3.7%	4.2%	6.1%	16.2%	3.6%	3.6%

Certified By: _____ **Date:** 10/25/2019
(mm/dd/yyyy)
B.G. Chittim, General Manager

Table B: **EPA-1613CVS; 5-point HRGC/HRMS Calibration and RRF Summary**

Calibration RRF Summary				Calibration Standard				
Calibration Filename: 24oct_EPA1613CVS-CAL.QLD				CS1	CS2	CS3	CS4	CS5
Name	Mean	S. D.	%RSD	RRF#1	RRF#2	RRF#3	RRF#4	RRF#5
2,3,7,8-TCDF	0.93	0.013	1.4	0.92	0.95	0.93	0.92	0.95
1,2,3,7,8-PeCDF	0.93	0.015	1.6	0.92	0.92	0.93	0.93	0.95
2,3,4,7,8-PeCDF	1.04	0.019	1.8	1.03	1.02	1.05	1.05	1.07
1,2,3,4,7,8-HxCDF	0.96	0.035	3.7	0.94	0.92	0.98	0.99	1.00
1,2,3,6,7,8-HxCDF	0.93	0.013	1.4	0.92	0.94	0.94	0.91	0.94
2,3,4,6,7,8-HxCDF	0.96	0.022	2.3	0.95	0.94	0.97	0.97	0.99
1,2,3,7,8,9-HxCDF	0.89	0.021	2.4	0.87	0.88	0.90	0.90	0.92
1,2,3,4,6,7,8-HpCDF	0.91	0.011	1.2	0.90	0.90	0.90	0.92	0.92
1,2,3,4,7,8,9-HpCDF	0.91	0.010	1.1	0.90	0.90	0.92	0.91	0.92
OCDF	1.19	0.056	4.7	1.11	1.17	1.19	1.23	1.26
2,3,7,8-TCDD	1.05	0.023	2.2	1.01	1.06	1.05	1.05	1.07
1,2,3,7,8-PeCDD	0.97	0.018	1.9	0.95	0.95	0.98	0.97	0.99
1,2,3,4,7,8-HxCDD	1.00	0.019	1.9	1.01	1.00	1.00	0.96	1.01
1,2,3,6,7,8-HxCDD	0.98	0.032	3.2	0.93	0.98	0.99	1.01	1.01
1,2,3,7,8,9-HxCDD	0.97	0.016	1.6	0.95	0.96	0.98	0.99	0.98
1,2,3,4,6,7,8-HpCDD	1.01	0.025	2.5	1.01	0.97	1.02	1.03	1.04
OCDD	1.00	0.013	1.3	1.00	0.99	1.02	1.02	1.00
$^{13}C_{12}$-2,3,7,8-TCDF	1.57	0.047	3.0	1.52	1.55	1.55	1.57	1.65
$^{13}C_{12}$-1,2,3,7,8-PeCDF	1.21	0.078	6.5	1.13	1.20	1.17	1.20	1.34
$^{13}C_{12}$-2,3,4,7,8-PeCDF	1.17	0.081	6.9	1.09	1.15	1.13	1.17	1.31
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	1.33	0.020	1.5	1.35	1.33	1.33	1.32	1.30
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	1.51	0.034	2.2	1.47	1.48	1.53	1.53	1.54
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	1.38	0.012	0.9	1.38	1.38	1.40	1.37	1.36
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	1.19	0.014	1.2	1.18	1.16	1.20	1.19	1.20
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	1.31	0.033	2.5	1.31	1.26	1.33	1.31	1.35
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	1.08	0.046	4.3	1.06	1.03	1.09	1.08	1.15
$^{13}C_{12}$-2,3,7,8-TCDD	1.13	0.036	3.2	1.10	1.11	1.11	1.13	1.19
$^{13}C_{12}$-1,2,3,7,8-PeCDD	0.79	0.047	5.9	0.74	0.78	0.75	0.79	0.86
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	0.87	0.027	3.1	0.85	0.83	0.89	0.88	0.89
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	1.04	0.010	1.0	1.05	1.05	1.04	1.05	1.03
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	0.81	0.017	2.1	0.81	0.80	0.80	0.81	0.84
$^{13}C_{12}$-OCDD	0.74	0.055	7.4	0.70	0.70	0.73	0.72	0.83
$^{13}C_{12}$-1,2,3,4-TCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00
$^{37}Cl_4$-2,3,7,8-TCDD	0.97	0.026	2.6	0.95	0.94	0.99	0.99	0.99

Table C: **EPA-1613CVS (with EPA-1613CSL and EPA-1613CS0.5); 7-point HRGC/HRMS Calibration and RRF Summary**

Calibration RRF Summary				Calibration Standard						
Calibration Filename: 24oct_EPA1613CVS-CAL.QLD				CSL	CS0.5	CS1	CS2	CS3	CS4	CS5
Name	Mean	S. D.	%RSD	RRF#1	RRF#2	RRF#3	RRF#4	RRF#5	RRF#6	RRF#7
2,3,7,8-TCDF	0.92	0.045	4.8	0.96	0.83	0.92	0.95	0.93	0.92	0.95
1,2,3,7,8-PeCDF	0.93	0.013	1.4	0.94	0.92	0.92	0.92	0.93	0.93	0.95
2,3,4,7,8-PeCDF	1.02	0.058	5.7	0.90	1.00	1.03	1.02	1.05	1.05	1.07
1,2,3,4,7,8-HxCDF	0.96	0.029	3.0	0.96	0.97	0.94	0.92	0.98	0.99	1.00
1,2,3,6,7,8-HxCDF	0.92	0.030	3.3	0.90	0.86	0.92	0.94	0.94	0.91	0.94
2,3,4,6,7,8-HxCDF	0.94	0.047	5.0	0.87	0.89	0.95	0.94	0.97	0.97	0.99
1,2,3,7,8,9-HxCDF	0.88	0.029	3.3	0.83	0.88	0.87	0.88	0.90	0.90	0.92
1,2,3,4,6,7,8-HpCDF	0.90	0.033	3.7	0.83	0.93	0.90	0.90	0.90	0.92	0.92
1,2,3,4,7,8,9-HpCDF	0.91	0.018	1.9	0.89	0.94	0.90	0.90	0.92	0.91	0.92
OCDF	1.18	0.052	4.4	1.15	1.14	1.11	1.17	1.19	1.23	1.26
2,3,7,8-TCDD	1.03	0.051	5.0	1.03	0.92	1.01	1.06	1.05	1.05	1.07
1,2,3,7,8-PeCDD	0.95	0.042	4.4	0.87	0.98	0.95	0.95	0.98	0.97	0.99
1,2,3,4,7,8-HxCDD	0.97	0.066	6.8	0.83	0.98	1.01	1.00	1.00	0.96	1.01
1,2,3,6,7,8-HxCDD	0.96	0.044	4.5	0.90	0.92	0.93	0.98	0.99	1.01	1.01
1,2,3,7,8,9-HxCDD	0.94	0.054	5.7	0.83	0.92	0.95	0.96	0.98	0.99	0.98
1,2,3,4,6,7,8-HpCDD	1.01	0.033	3.3	0.95	1.03	1.01	0.97	1.02	1.03	1.04
OCDD	1.00	0.023	2.3	0.95	1.00	1.00	0.99	1.02	1.02	1.00
$^{13}C_{12}$-2,3,7,8-TCDF	1.56	0.042	2.7	1.52	1.54	1.52	1.55	1.55	1.57	1.65
$^{13}C_{12}$-1,2,3,7,8-PeCDF	1.20	0.066	5.5	1.18	1.17	1.13	1.20	1.17	1.20	1.34
$^{13}C_{12}$-2,3,4,7,8-PeCDF	1.16	0.071	6.1	1.12	1.13	1.09	1.15	1.13	1.17	1.31
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	1.33	0.018	1.4	1.32	1.35	1.35	1.33	1.33	1.32	1.30
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	1.53	0.045	3.0	1.60	1.56	1.47	1.48	1.53	1.53	1.54
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	1.39	0.019	1.4	1.39	1.42	1.38	1.38	1.40	1.37	1.36
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	1.19	0.012	1.0	1.19	1.19	1.18	1.16	1.20	1.19	1.20
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	1.31	0.028	2.2	1.30	1.33	1.31	1.26	1.33	1.31	1.35
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	1.07	0.045	4.2	1.02	1.08	1.06	1.03	1.09	1.08	1.15
$^{13}C_{12}$-2,3,7,8-TCDD	1.12	0.033	3.0	1.09	1.11	1.10	1.11	1.11	1.13	1.19
$^{13}C_{12}$-1,2,3,7,8-PeCDD	0.78	0.040	5.1	0.75	0.78	0.74	0.78	0.75	0.79	0.86
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	0.87	0.025	2.9	0.86	0.90	0.85	0.83	0.89	0.88	0.89
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	1.05	0.015	1.5	1.08	1.06	1.05	1.05	1.04	1.05	1.03
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	0.81	0.016	2.0	0.79	0.81	0.81	0.80	0.80	0.81	0.84
$^{13}C_{12}$-OCDD	0.73	0.046	6.3	0.71	0.72	0.70	0.70	0.73	0.72	0.83
$^{13}C_{12}$-1,2,3,4-TCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
$^{37}Cl_4$-2,3,7,8-TCDD	0.97	0.053	5.4	0.90	1.07	0.95	0.94	0.99	0.99	0.99

Figure 1: **EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**

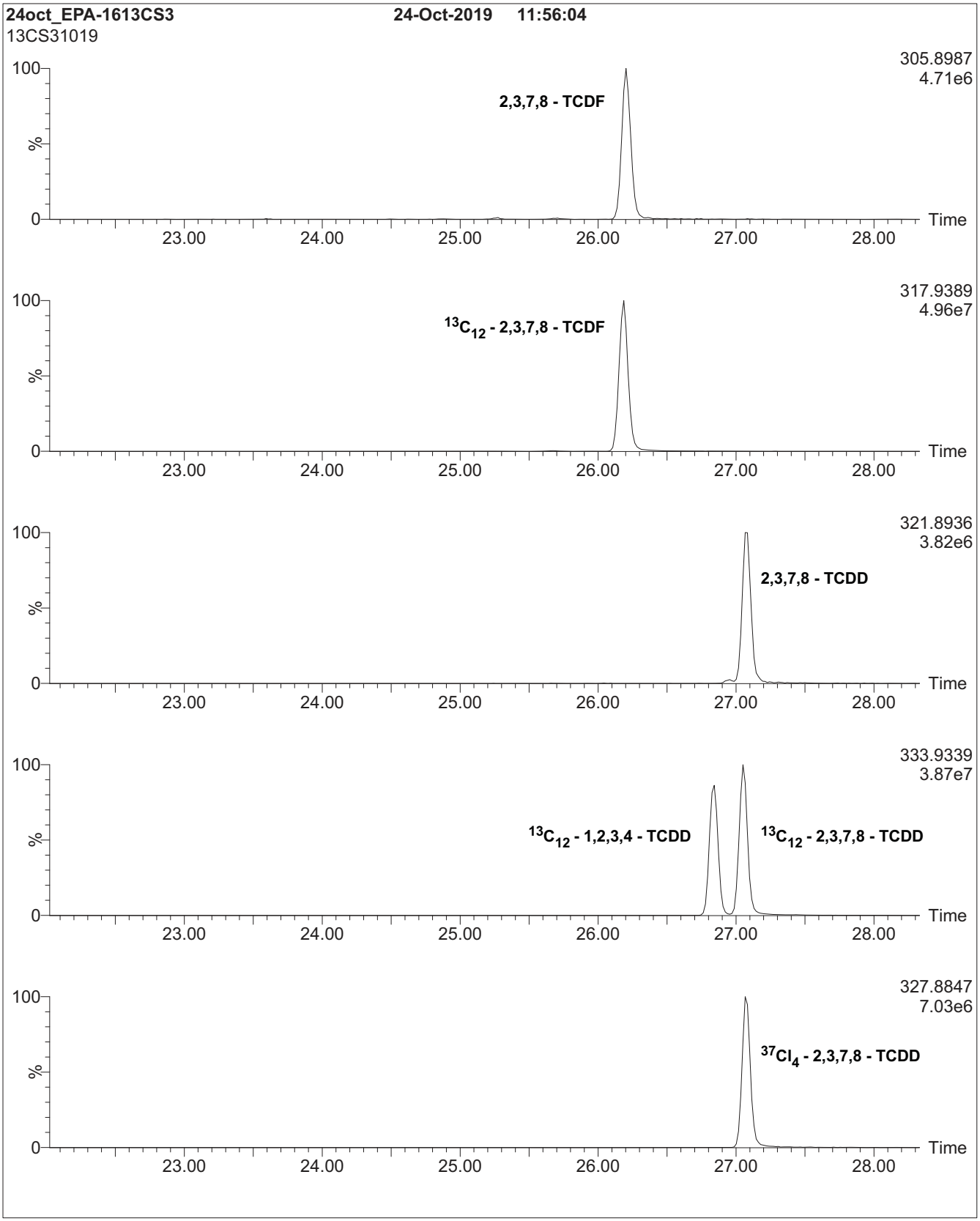


Figure 1: **EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**

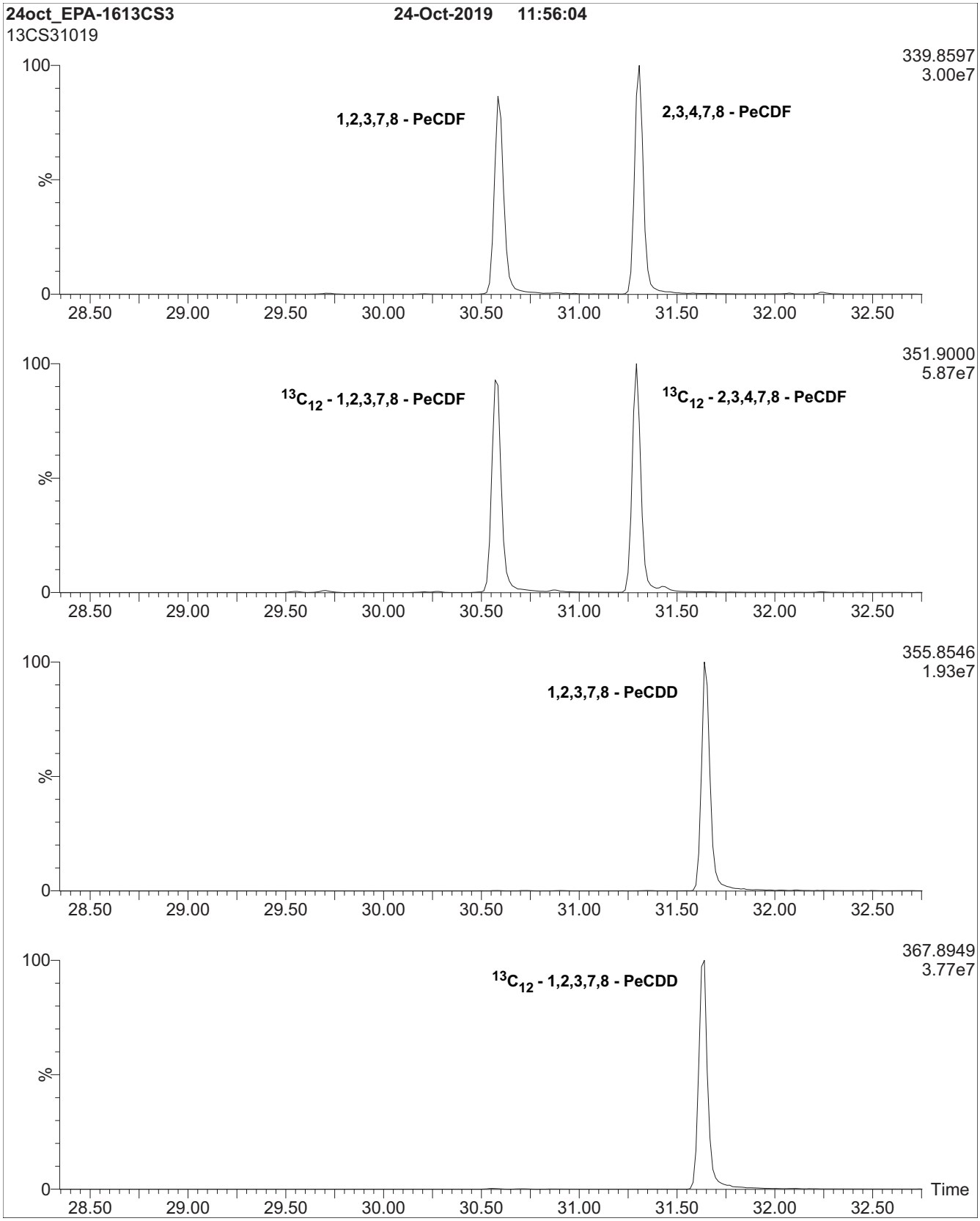


Figure 1: **EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**

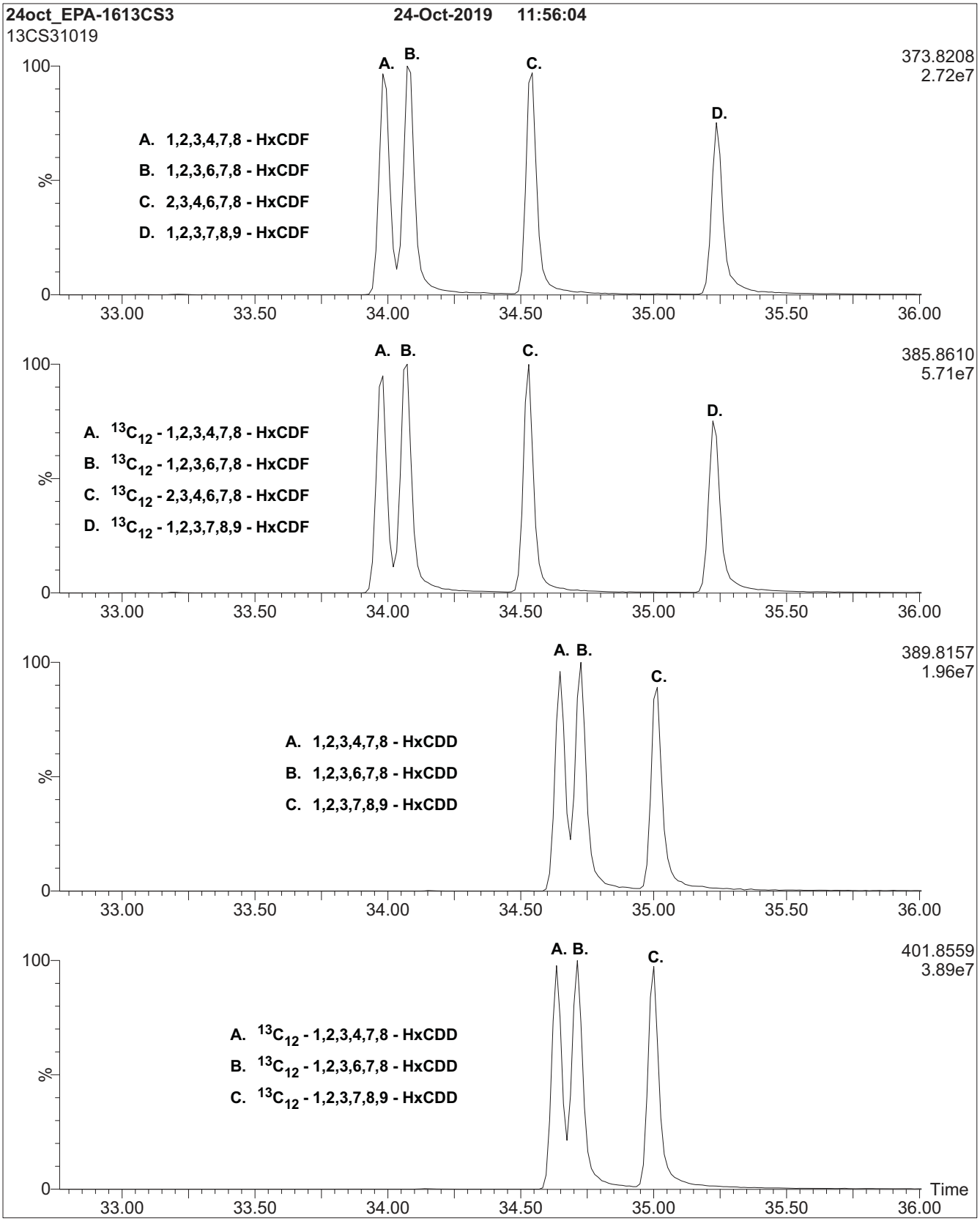


Figure 1: **EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**

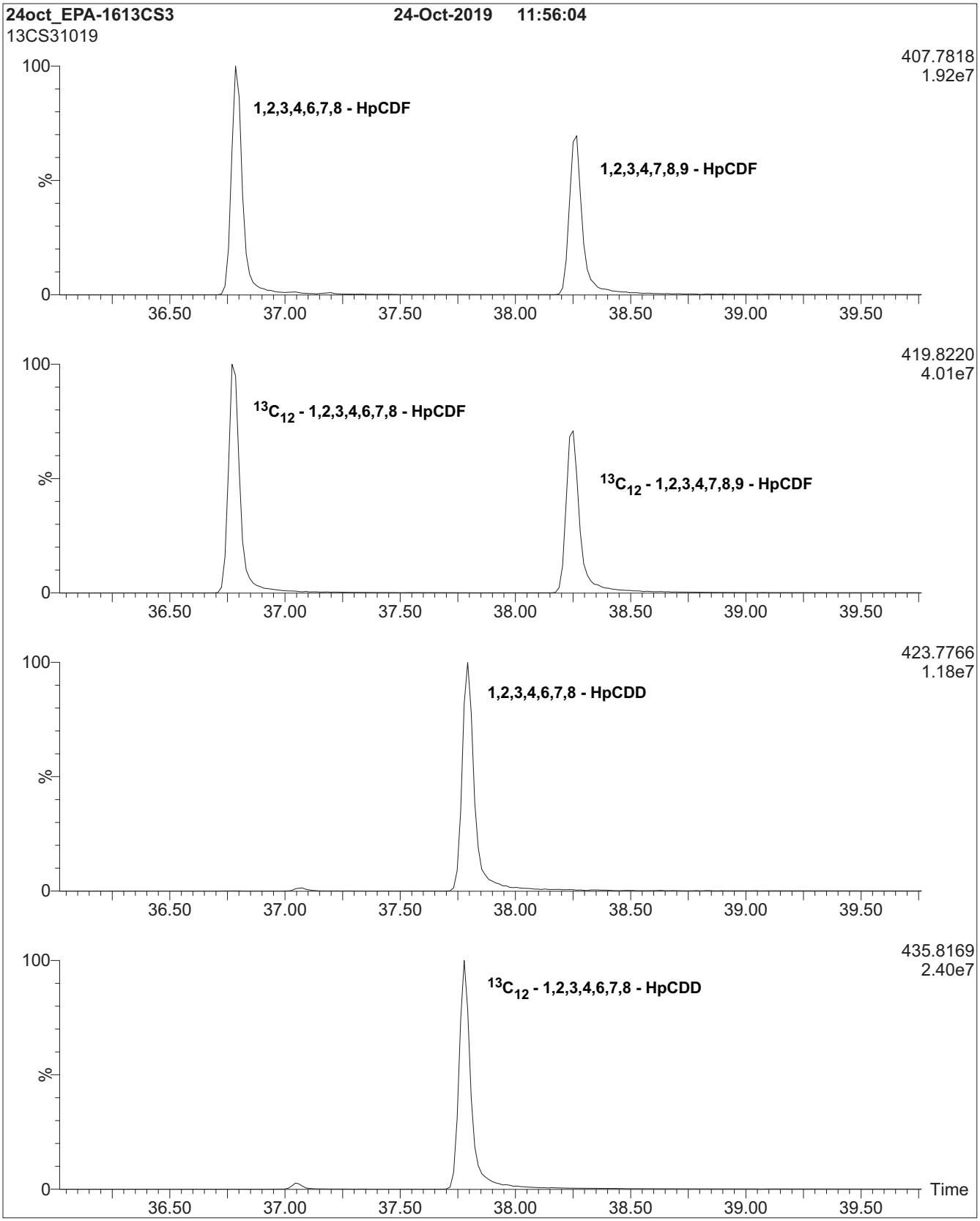
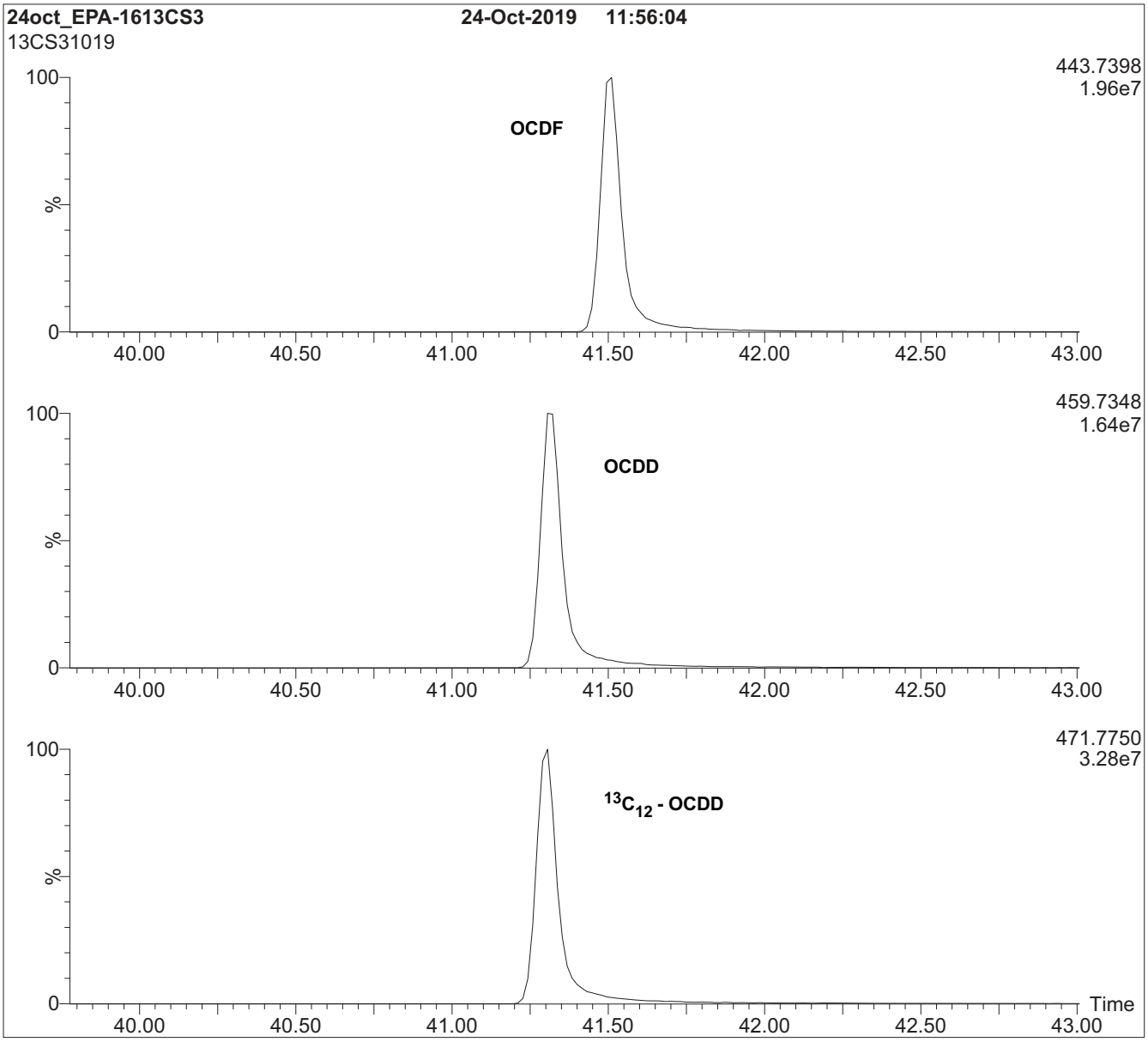


Figure 1: **EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**



HRGC/HRMS:

Agilent 6890N (HRGC)
Autospec Ultima (HRMS)

Chromatographic Conditions:

Column: 60 m DB-5 (0.25 mm id, 0.25 µm film thickness) Agilent J&W

Flow:	Constant at 1 ml/min	Oven:	150 °C (1 min)
Injector:	280 °C (Splitless Injection)		12 °C/min to 200 °C
Ionization:	EI+		3 °C/min to 235 °C
Detector:	280 °C		235 °C (8 min)
	SIR at 10,000 mass resolving power		8 °C/min to 310 °C
			310 °C (8 min)

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

EPA-1613CVS

U.S. EPA Method 1613 Calibration and Verification Solutions
plus Supplemental Calibration Solutions EPA-1613CSL & EPA-1613CS0.5

PRODUCT CODES:	EPA-1613CVS	**LOT NUMBERS:**	(see below)
	EPA-1613CS1		13CS11019
	EPA-1613CS2		13CS21019
	EPA-1613CS3		13CS31019
	EPA-1613CS4		13CS41019
	EPA-1613CS5		13CS51019

Note: EPA-1613CSL and EPA-1613CS0.5 are lower level extensions to this calibration set that must be ordered separately.

EPA-1613CS0.5	13CS0.51019
EPA-1613CSL	13CSL1019

SOLVENT(S):	Nonane/Toluene
DATE PREPARED: (mm/dd/yyyy)	10/22/2019
LAST TESTED: (mm/dd/yyyy)	10/24/2019
EXPIRY DATE: (mm/dd/yyyy)	10/24/2026
RECOMMENDED STORAGE:	Store ampoules in a cool, dark place

I005460
1613 CSL CAL STD
Expires 10/24/2026
Prepared By Joshua Rains 6/23/2020

DESCRIPTION:

EPA-1613CVS is a series of 5 calibration solutions containing native ($^{12}C_{12}$) and mass-labelled ($^{13}C_{12}$ and $^{37}Cl_4$) chlorinated dibenzo-p-dioxins (PCDDs) and dibenzofurans (PCDFs). The components of each solution, and their concentrations, are given in Table A.

They were designed for, and prepared to be used according to, U.S. EPA Method 1613 (Revision B). They are to be used as received.

EPA-1613CSL and EPA-1613CS0.5 are lower level extensions to EPA-1613CVS. Neither is required by the method, but either or both can be used to extend the calibration to lower levels.

The individual native PCDDs and PCDFs all have chemical purities of >98%. The individual ^{13}C-labelled PCDDs and PCDFs all have chemical purities of >98% and isotopic purities of ≥99%. The 2,3,7,8-$^{37}Cl_4$-Tetrachlorodibenzo-p-dioxin has a chemical purity of >98% and an isotopic (^{37}Cl) purity of ≥95%.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

DOCUMENTATION/ DATA ATTACHED:

Table A: Components and Concentrations
Table B: 5-point HRGC/HRMS Calibration and RRF Summary
Table C: 7-point HRGC/HRMS Calibration and RRF Summary
Figure 1: HRGC/HRMS Data for EPA-1613CS3 (SIR; 10,000 mass resolving power)

ADDITIONAL INFORMATION:

- See page 3 for further details.

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a series of standards for the identification and quantification of specific chemical compounds.

HANDLING:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products, as well as mixtures and calibration solutions, are compared to older lots in a similar manner. This further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned values, and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2,...x_n on which it depends is:

$$u_c(y(x_1, x_2, ...x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ±5% (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analytes is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A 1226), and ISO 17034 by ANSI-ASQ National Accreditation Board (ANAB; AR-1523).

CALA Testing Accreditation No. A 1226

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Table A: **EPA-1613CVS (with EPA-1613CSL and EPA-1613CS0.5); Components and Concentrations (ng/ml, ± 5% in nonane/toluene)**

Compound	Concentration (ng/ml)						
Native PCDDs and PCDFs:	**CS1**	**CS2**	**CS3**	**CS4**	**CS5**	**CSL**	**CS0.5**
2,3,7,8-TCDD	0.5	2	10	40	200	0.1	0.25
2,3,7,8-TCDF	0.5	2	10	40	200	0.1	0.25
1,2,3,7,8-PeCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,7,8-PeCDF	2.5	10	50	200	1000	0.5	1.25
2,3,4,7,8-PeCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,7,8-HxCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,6,7,8-HxCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,7,8,9-HxCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,7,8-HxCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,6,7,8-HxCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,7,8,9-HxCDF	2.5	10	50	200	1000	0.5	1.25
2,3,4,6,7,8-HxCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,6,7,8-HpCDD	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,6,7,8-HpCDF	2.5	10	50	200	1000	0.5	1.25
1,2,3,4,7,8,9-HpCDF	2.5	10	50	200	1000	0.5	1.25
OCDD	5.0	20	100	400	2000	1.0	2.5
OCDF	5.0	20	100	400	2000	1.0	2.5
Labelled PCDDs and PCDFs:							
$^{13}C_{12}$-2,3,7,8-TCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-2,3,7,8-TCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,7,8-PeCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,7,8-PeCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-2,3,4,7,8-PeCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	100	100	100	100	100	100	100
$^{13}C_{12}$-OCDD	200	200	200	200	200	200	200
Cleanup Standard:							
$^{37}Cl_4$-2,3,7,8-TCDD	0.5	2	10	40	200	0.1	0.25
Internal Standards:							
$^{13}C_{12}$-1,2,3,4-TCDD	100	100	100	100	100	100	100
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	100	100	100	100	100	100	100
Percent toluene (v/v)	3.6%	3.7%	4.2%	6.1%	16.2%	3.6%	3.6%

Certified By: _____ **Date:** 10/25/2019
(mm/dd/yyyy)
B.G. Chittim, General Manager

Table B: **EPA-1613CVS; 5-point HRGC/HRMS Calibration and RRF Summary**

Calibration RRF Summary				Calibration Standard				
Calibration Filename: 24oct_EPA1613CVS-CAL.QLD				CS1	CS2	CS3	CS4	CS5
Name	Mean	S. D.	%RSD	RRF#1	RRF#2	RRF#3	RRF#4	RRF#5
2,3,7,8-TCDF	0.93	0.013	1.4	0.92	0.95	0.93	0.92	0.95
1,2,3,7,8-PeCDF	0.93	0.015	1.6	0.92	0.92	0.93	0.93	0.95
2,3,4,7,8-PeCDF	1.04	0.019	1.8	1.03	1.02	1.05	1.05	1.07
1,2,3,4,7,8-HxCDF	0.96	0.035	3.7	0.94	0.92	0.98	0.99	1.00
1,2,3,6,7,8-HxCDF	0.93	0.013	1.4	0.92	0.94	0.94	0.91	0.94
2,3,4,6,7,8-HxCDF	0.96	0.022	2.3	0.95	0.94	0.97	0.97	0.99
1,2,3,7,8,9-HxCDF	0.89	0.021	2.4	0.87	0.88	0.90	0.90	0.92
1,2,3,4,6,7,8-HpCDF	0.91	0.011	1.2	0.90	0.90	0.90	0.92	0.92
1,2,3,4,7,8,9-HpCDF	0.91	0.010	1.1	0.90	0.90	0.92	0.91	0.92
OCDF	1.19	0.056	4.7	1.11	1.17	1.19	1.23	1.26
2,3,7,8-TCDD	1.05	0.023	2.2	1.01	1.06	1.05	1.05	1.07
1,2,3,7,8-PeCDD	0.97	0.018	1.9	0.95	0.95	0.98	0.97	0.99
1,2,3,4,7,8-HxCDD	1.00	0.019	1.9	1.01	1.00	1.00	0.96	1.01
1,2,3,6,7,8-HxCDD	0.98	0.032	3.2	0.93	0.98	0.99	1.01	1.01
1,2,3,7,8,9-HxCDD	0.97	0.016	1.6	0.95	0.96	0.98	0.99	0.98
1,2,3,4,6,7,8-HpCDD	1.01	0.025	2.5	1.01	0.97	1.02	1.03	1.04
OCDD	1.00	0.013	1.3	1.00	0.99	1.02	1.02	1.00
$^{13}C_{12}$-2,3,7,8-TCDF	1.57	0.047	3.0	1.52	1.55	1.55	1.57	1.65
$^{13}C_{12}$-1,2,3,7,8-PeCDF	1.21	0.078	6.5	1.13	1.20	1.17	1.20	1.34
$^{13}C_{12}$-2,3,4,7,8-PeCDF	1.17	0.081	6.9	1.09	1.15	1.13	1.17	1.31
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	1.33	0.020	1.5	1.35	1.33	1.33	1.32	1.30
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	1.51	0.034	2.2	1.47	1.48	1.53	1.53	1.54
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	1.38	0.012	0.9	1.38	1.38	1.40	1.37	1.36
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	1.19	0.014	1.2	1.18	1.16	1.20	1.19	1.20
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	1.31	0.033	2.5	1.31	1.26	1.33	1.31	1.35
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	1.08	0.046	4.3	1.06	1.03	1.09	1.08	1.15
$^{13}C_{12}$-2,3,7,8-TCDD	1.13	0.036	3.2	1.10	1.11	1.11	1.13	1.19
$^{13}C_{12}$-1,2,3,7,8-PeCDD	0.79	0.047	5.9	0.74	0.78	0.75	0.79	0.86
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	0.87	0.027	3.1	0.85	0.83	0.89	0.88	0.89
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	1.04	0.010	1.0	1.05	1.05	1.04	1.05	1.03
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	0.81	0.017	2.1	0.81	0.80	0.80	0.81	0.84
$^{13}C_{12}$-OCDD	0.74	0.055	7.4	0.70	0.70	0.73	0.72	0.83
$^{13}C_{12}$-1,2,3,4-TCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00
$^{37}Cl_4$-2,3,7,8-TCDD	0.97	0.026	2.6	0.95	0.94	0.99	0.99	0.99

Table C: **EPA-1613CVS (with EPA-1613CSL and EPA-1613CS0.5); 7-point HRGC/HRMS Calibration and RRF Summary**

Calibration RRF Summary				Calibration Standard						
Calibration Filename: 24oct_EPA1613CVS-CAL.QLD				CSL	CS0.5	CS1	CS2	CS3	CS4	CS5
Name	Mean	S. D.	%RSD	RRF#1	RRF#2	RRF#3	RRF#4	RRF#5	RRF#6	RRF#7
2,3,7,8-TCDF	0.92	0.045	4.8	0.96	0.83	0.92	0.95	0.93	0.92	0.95
1,2,3,7,8-PeCDF	0.93	0.013	1.4	0.94	0.92	0.92	0.92	0.93	0.93	0.95
2,3,4,7,8-PeCDF	1.02	0.058	5.7	0.90	1.00	1.03	1.02	1.05	1.05	1.07
1,2,3,4,7,8-HxCDF	0.96	0.029	3.0	0.96	0.97	0.94	0.92	0.98	0.99	1.00
1,2,3,6,7,8-HxCDF	0.92	0.030	3.3	0.90	0.86	0.92	0.94	0.94	0.91	0.94
2,3,4,6,7,8-HxCDF	0.94	0.047	5.0	0.87	0.89	0.95	0.94	0.97	0.97	0.99
1,2,3,7,8,9-HxCDF	0.88	0.029	3.3	0.83	0.88	0.87	0.88	0.90	0.90	0.92
1,2,3,4,6,7,8-HpCDF	0.90	0.033	3.7	0.83	0.93	0.90	0.90	0.90	0.92	0.92
1,2,3,4,7,8,9-HpCDF	0.91	0.018	1.9	0.89	0.94	0.90	0.90	0.92	0.91	0.92
OCDF	1.18	0.052	4.4	1.15	1.14	1.11	1.17	1.19	1.23	1.26
2,3,7,8-TCDD	1.03	0.051	5.0	1.03	0.92	1.01	1.06	1.05	1.05	1.07
1,2,3,7,8-PeCDD	0.95	0.042	4.4	0.87	0.98	0.95	0.95	0.98	0.97	0.99
1,2,3,4,7,8-HxCDD	0.97	0.066	6.8	0.83	0.98	1.01	1.00	1.00	0.96	1.01
1,2,3,6,7,8-HxCDD	0.96	0.044	4.5	0.90	0.92	0.93	0.98	0.99	1.01	1.01
1,2,3,7,8,9-HxCDD	0.94	0.054	5.7	0.83	0.92	0.95	0.96	0.98	0.99	0.98
1,2,3,4,6,7,8-HpCDD	1.01	0.033	3.3	0.95	1.03	1.01	0.97	1.02	1.03	1.04
OCDD	1.00	0.023	2.3	0.95	1.00	1.00	0.99	1.02	1.02	1.00
$^{13}C_{12}$-2,3,7,8-TCDF	1.56	0.042	2.7	1.52	1.54	1.52	1.55	1.55	1.57	1.65
$^{13}C_{12}$-1,2,3,7,8-PeCDF	1.20	0.066	5.5	1.18	1.17	1.13	1.20	1.17	1.20	1.34
$^{13}C_{12}$-2,3,4,7,8-PeCDF	1.16	0.071	6.1	1.12	1.13	1.09	1.15	1.13	1.17	1.31
$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	1.33	0.018	1.4	1.32	1.35	1.35	1.33	1.33	1.32	1.30
$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	1.53	0.045	3.0	1.60	1.56	1.47	1.48	1.53	1.53	1.54
$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	1.39	0.019	1.4	1.39	1.42	1.38	1.38	1.40	1.37	1.36
$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	1.19	0.012	1.0	1.19	1.19	1.18	1.16	1.20	1.19	1.20
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	1.31	0.028	2.2	1.30	1.33	1.31	1.26	1.33	1.31	1.35
$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	1.07	0.045	4.2	1.02	1.08	1.06	1.03	1.09	1.08	1.15
$^{13}C_{12}$-2,3,7,8-TCDD	1.12	0.033	3.0	1.09	1.11	1.10	1.11	1.11	1.13	1.19
$^{13}C_{12}$-1,2,3,7,8-PeCDD	0.78	0.040	5.1	0.75	0.78	0.74	0.78	0.75	0.79	0.86
$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	0.87	0.025	2.9	0.86	0.90	0.85	0.83	0.89	0.88	0.89
$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	1.05	0.015	1.5	1.08	1.06	1.05	1.05	1.04	1.05	1.03
$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	0.81	0.016	2.0	0.79	0.81	0.81	0.80	0.80	0.81	0.84
$^{13}C_{12}$-OCDD	0.73	0.046	6.3	0.71	0.72	0.70	0.70	0.73	0.72	0.83
$^{13}C_{12}$-1,2,3,4-TCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	1.00	0.000	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
$^{37}Cl_4$-2,3,7,8-TCDD	0.97	0.053	5.4	0.90	1.07	0.95	0.94	0.99	0.99	0.99

Figure 1: **EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**

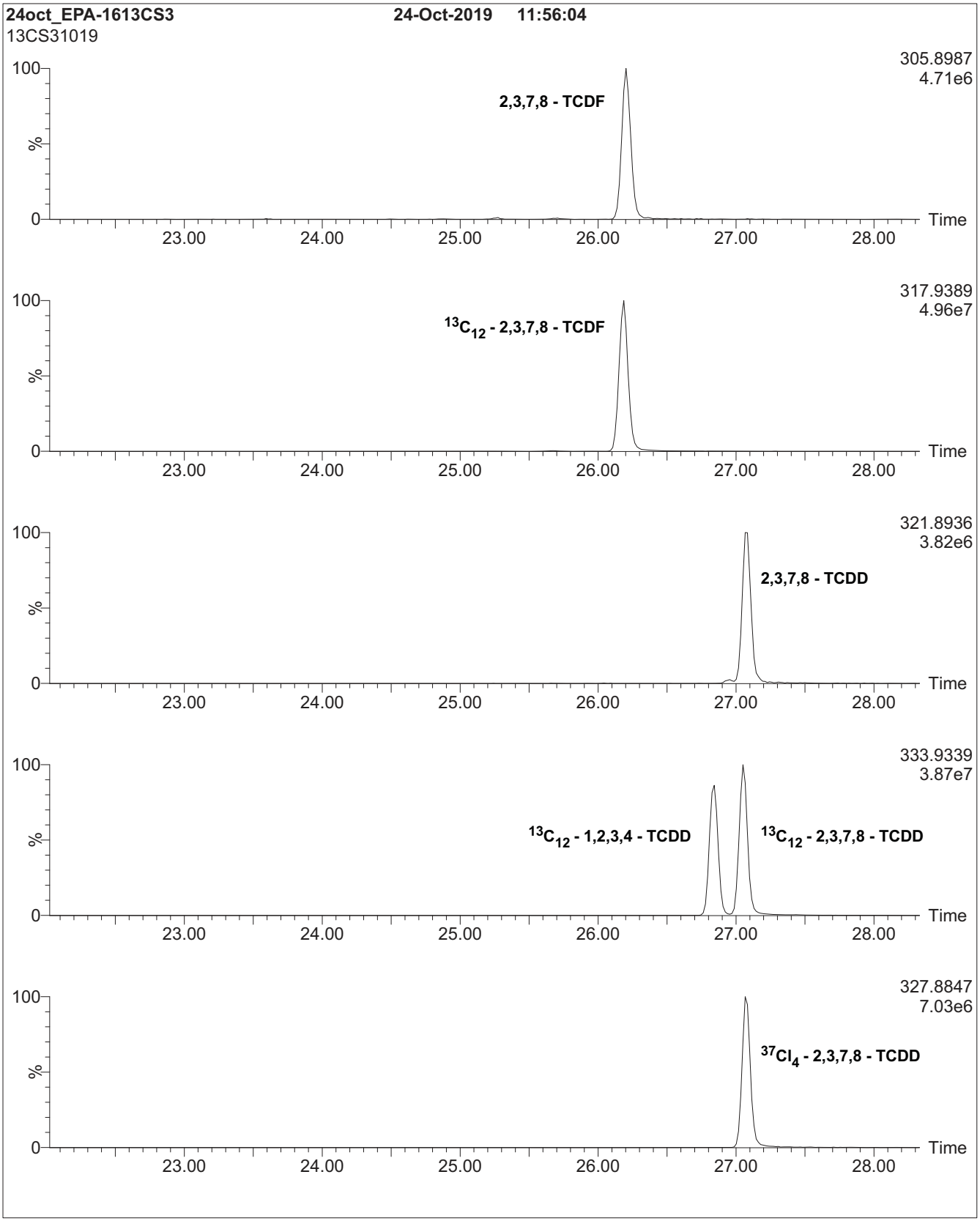


Figure 1: **EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**

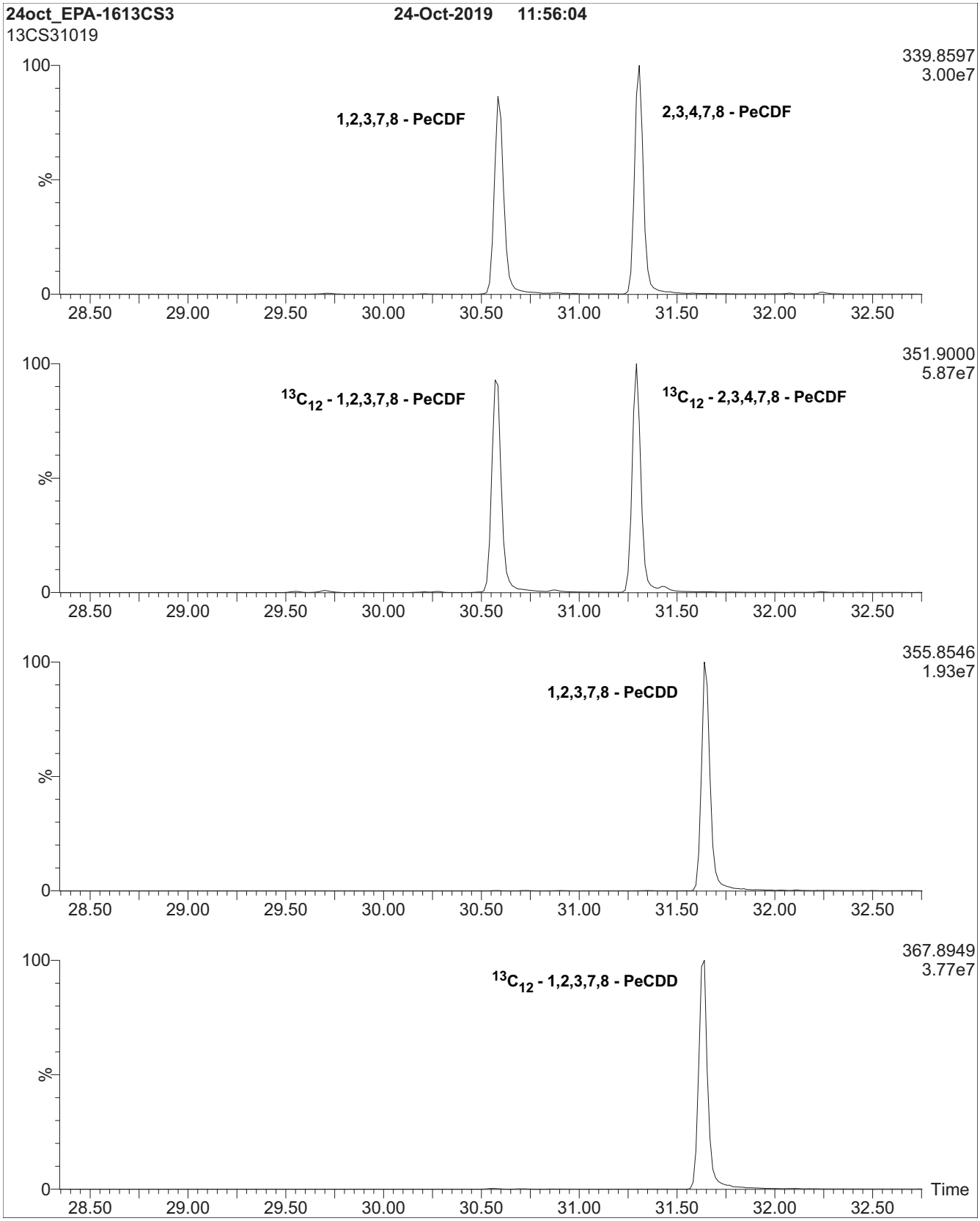


Figure 1: **EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**

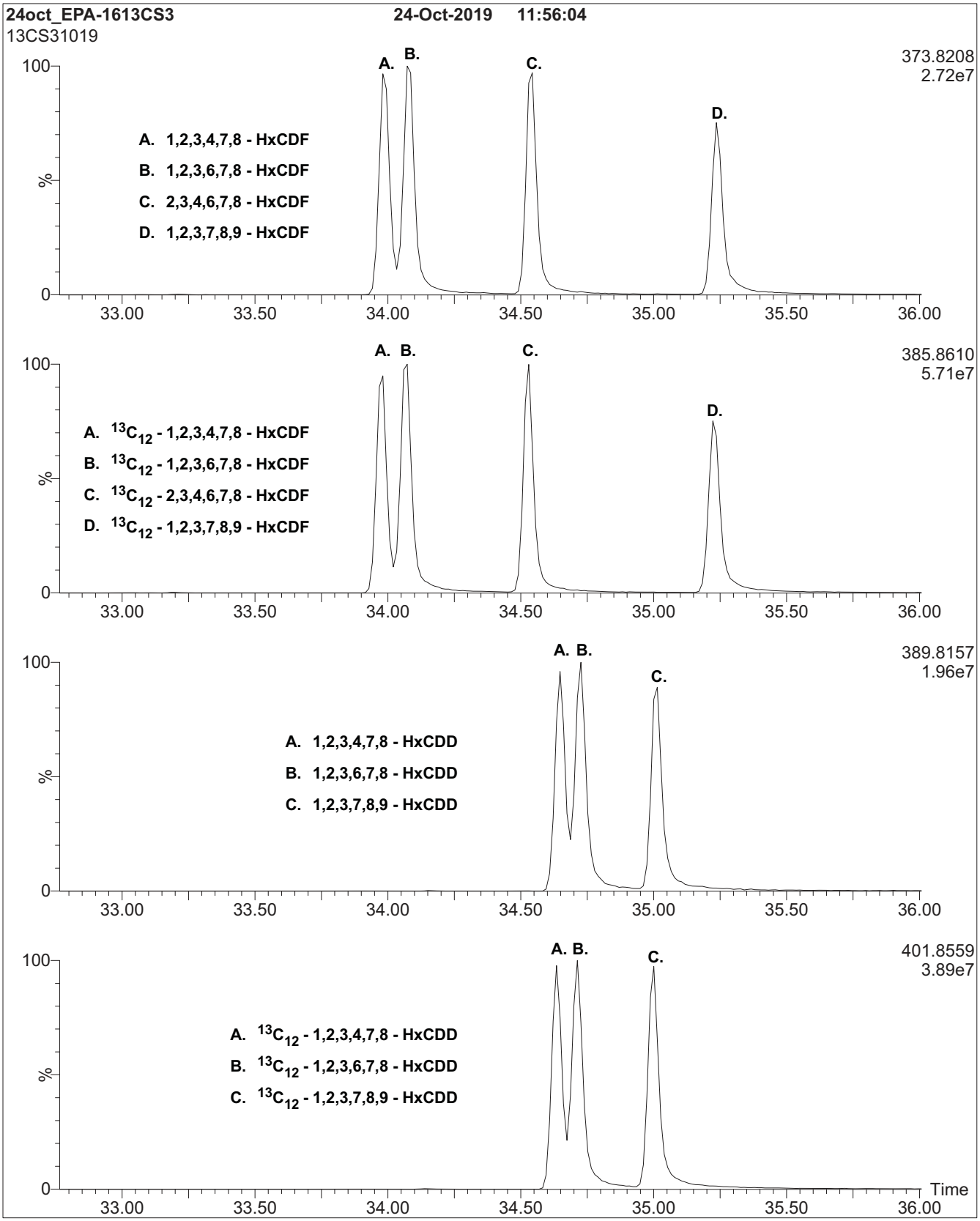


Figure 1: **EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**

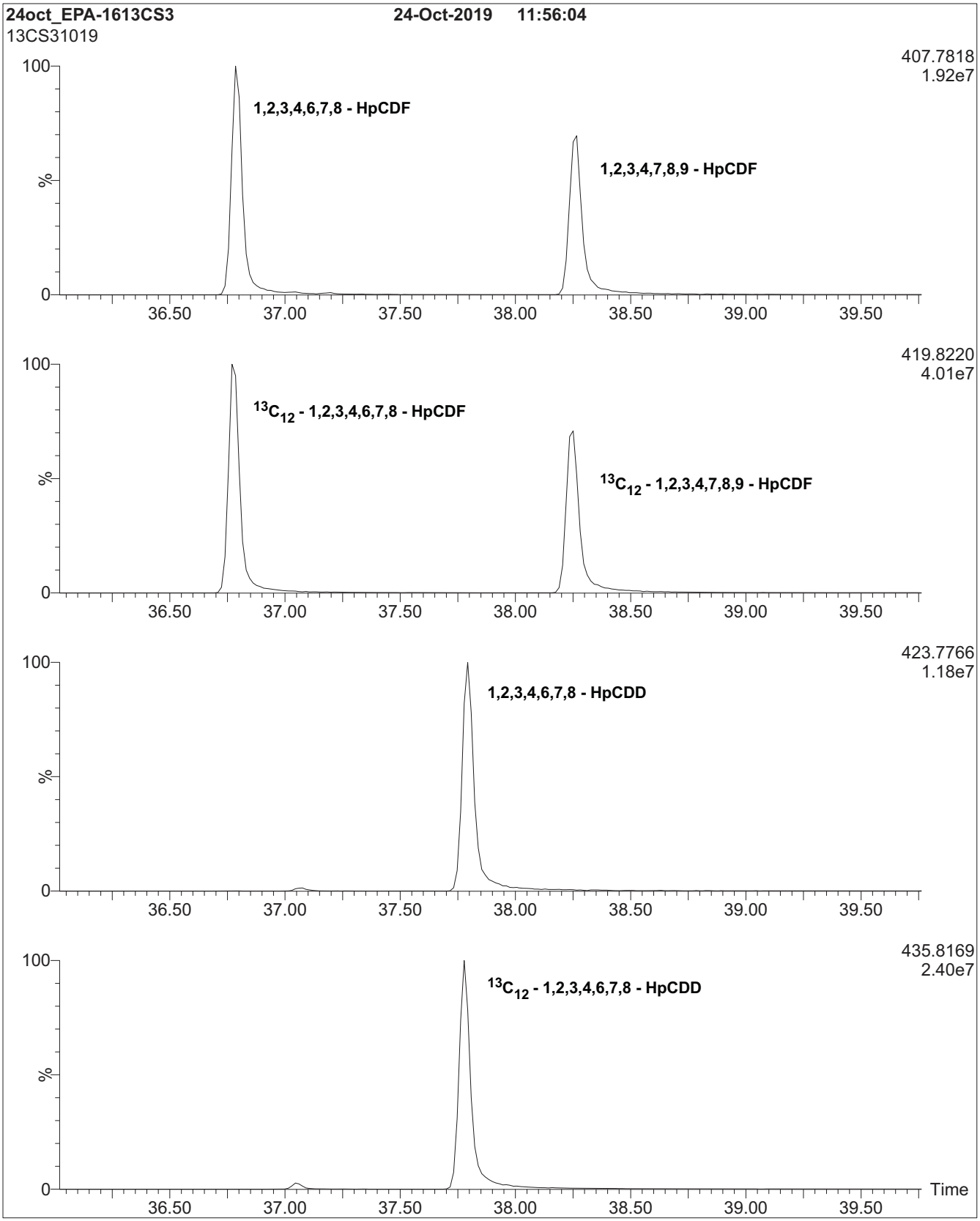
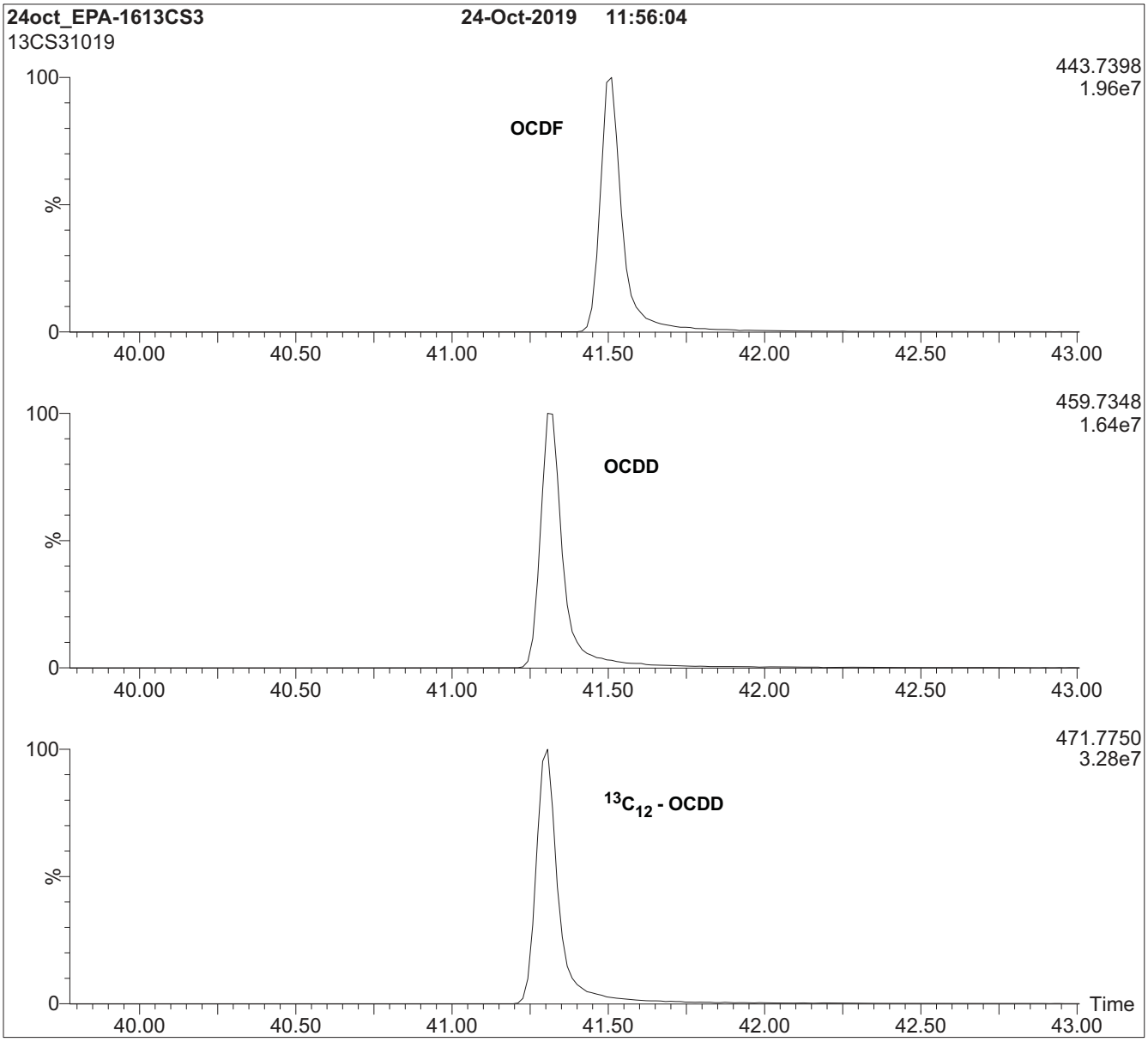


Figure 1: **EPA-1613CS3; HRGC/HRMS Data (60 m DB-5 Column)**



HRGC/HRMS:

Agilent 6890N (HRGC)
Autospec Ultima (HRMS)

Chromatographic Conditions:

Column: 60 m DB-5 (0.25 mm id, 0.25 µm film thickness) Agilent J&W

Flow:	Constant at 1 ml/min	Oven:	150 °C (1 min)
Injector:	280 °C (Splitless Injection)		12 °C/min to 200 °C
Ionization:	EI+		3 °C/min to 235 °C
Detector:	280 °C		235 °C (8 min)
	SIR at 10,000 mass resolving power		8 °C/min to 310 °C
			310 °C (8 min)

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

EPA-1613PAR

U.S. EPA Method 1613 Native PCDD/PCDF Precision and Recovery Stock Solution

PRODUCT CODE:	EPA-1613PAR
LOT NUMBER:	13PAR1021
SOLVENT(S):	Nonane/Toluene
DATE PREPARED: (mm/dd/yyyy)	10/25/2021
LAST TESTED: (mm/dd/yyyy)	11/03/2021
EXPIRY DATE: (mm/dd/yyyy)	11/03/2028
RECOMMENDED STORAGE:	Store ampoule in a cool, dark place

J013397
Recd. JR
12/20/21

DESCRIPTION:

EPA-1613PAR is a solution/mixture of all the 2,3,7,8-substituted polychlorinated dibenzo-*p*-dioxins (PCDDs) and dibenzofurans (PCDFs). The components and their concentrations are given in Table A.

EPA-1613PAR was designed and prepared to be used according to U.S. EPA Method 1613, Revision B.

The individual PCDDs and PCDFs all have chemical purities of >98%.

DOCUMENTATION/ DATA ATTACHED:

Table A: Components and Concentrations of the Solution/Mixture
Figure 1: HRGC/HRMS Data (SIR; 10,000 mass resolving power)

ADDITIONAL INFORMATION:

- See page 2 for further details.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

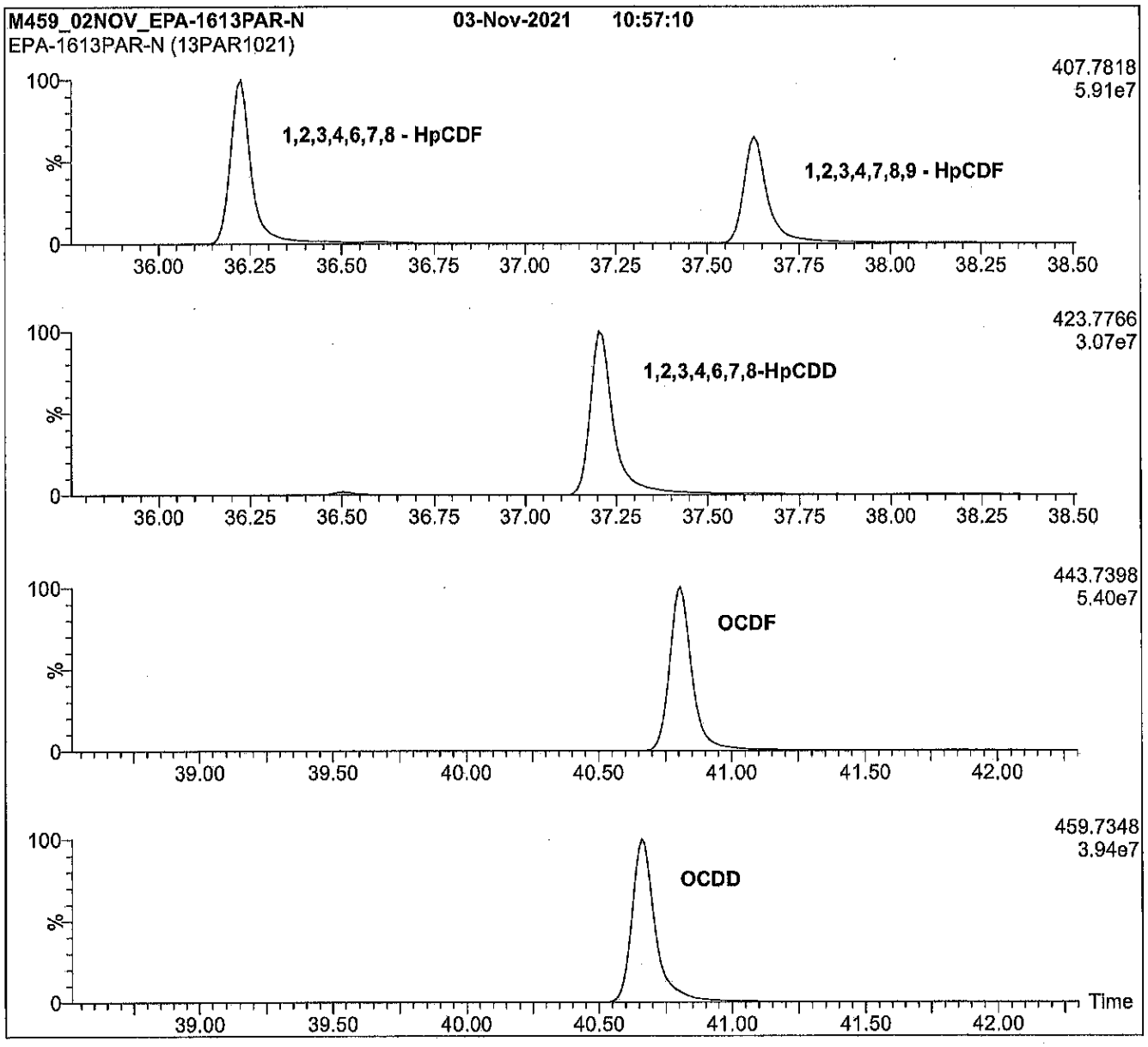
Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

Table A: **EPA-1613PAR; Components and Concentrations (ng/mL, ± 5% in nonane/2.4% toluene)**

Compound	Acronym	CAS #	Concentration (ng/mL)
PCDDs:			
2,3,7,8-Tetrachlorodibenzo-*p*-dioxin	2,3,7,8-TCDD	1746-01-6	40.0
1,2,3,7,8-Pentachlorodibenzo-*p*-dioxin	1,2,3,7,8-PeCDD	40321-76-4	200
1,2,3,4,7,8-Hexachlorodibenzo-*p*-dioxin	1,2,3,4,7,8-HxCDD	39227-28-6	200
1,2,3,6,7,8-Hexachlorodibenzo-*p*-dioxin	1,2,3,6,7,8-HxCDD	57653-85-7	200
1,2,3,7,8,9-Hexachlorodibenzo-*p*-dioxin	1,2,3,7,8,9-HxCDD	19408-74-3	200
1,2,3,4,6,7,8-Heptachlorodibenzo-*p*-dioxin	1,2,3,4,6,7,8-HpCDD	35822-46-9	200
Octachlorodibenzo-*p*-dioxin	OCDD	3268-87-9	400
PCDFs:			
2,3,7,8-Tetrachlorodibenzofuran	2,3,7,8-TCDF	51207-31-9	40.0
1,2,3,7,8-Pentachlorodibenzofuran	1,2,3,7,8-PeCDF	57117-41-6	200
2,3,4,7,8-Pentachlorodibenzofuran	2,3,4,7,8-PeCDF	57117-31-4	200
1,2,3,4,7,8-Hexachlorodibenzofuran	1,2,3,4,7,8-HxCDF	70648-26-9	200
1,2,3,6,7,8-Hexachlorodibenzofuran	1,2,3,6,7,8-HxCDF	57117-44-9	200
1,2,3,7,8,9-Hexachlorodibenzofuran	1,2,3,7,8,9-HxCDF	72918-21-9	200
2,3,4,6,7,8-Hexachlorodibenzofuran	2,3,4,6,7,8-HxCDF	60851-34-5	200
1,2,3,4,6,7,8-Heptachlorodibenzofuran	1,2,3,4,6,7,8-HpCDF	67562-39-4	200
1,2,3,4,7,8,9-Heptachlorodibenzofuran	1,2,3,4,7,8,9-HpCDF	55673-89-7	200
Octachlorodibenzofuran	OCDF	39001-02-0	400

Certified By: _____ **Date:** 11/05/2021
(mm/dd/yyyy)
B.G. Chittim, General Manager

Figure 1: **EPA-1613PAR; HRGC/HRMS Data (60 m DB-5 Column)**



Conditions for Figure 1:

Agilent 6890N HRGC
Autospec Ultima HRMS

Chromatographic Conditions:

Column:	60 m DB-5 (0.25 mm id, 0.25 µm film thickness) Agilent J&W		
Flow:	Constant at 1.4 mL/min	Oven:	150°C (1 min)
Injector:	280°C (Splitless Injection)		12°C/min to 200°C
Ionization:	EI+		3°C/min to 235°C
Detector:	280°C		235°C (8 min)
	SIR at 10,000 mass resolving power		8°C/min to 310°C
			310°C (8 min)

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

EPA-1613PAR

U.S. EPA Method 1613 Native PCDD/PCDF
Precision and Recovery Stock Solution

PRODUCT CODE:	EPA-1613PAR
LOT NUMBER:	13PAR1021
SOLVENT(S):	Nonane/Toluene
DATE PREPARED: (mm/dd/yyyy)	10/25/2021
LAST TESTED: (mm/dd/yyyy)	11/03/2021
EXPIRY DATE: (mm/dd/yyyy)	11/03/2028
RECOMMENDED STORAGE:	Store ampoule in a cool, dark place

J013397
Recd. JR
12/20/21

DESCRIPTION:

EPA-1613PAR is a solution/mixture of all the 2,3,7,8-substituted polychlorinated dibenzo-*p*-dioxins (PCDDs) and dibenzofurans (PCDFs). The components and their concentrations are given in Table A.

EPA-1613PAR was designed and prepared to be used according to U.S. EPA Method 1613, Revision B.

The individual PCDDs and PCDFs all have chemical purities of >98%.

DOCUMENTATION/ DATA ATTACHED:

Table A: Components and Concentrations of the Solution/Mixture
Figure 1: HRGC/HRMS Data (SIR; 10,000 mass resolving power)

ADDITIONAL INFORMATION:

- See page 2 for further details.

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compounds it contains.

HANDLING:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products, as well as mixtures and calibration solutions, are compared to older lots in a similar manner. This further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters $x_1, x_2, ...x_n$ on which it depends is:

$$u_c(y(x_1, x_2, ...x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ±5% (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A1226), and ISO 17034 by ANSI National Accreditation Board (ANAB; AR-1523).

CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Table A: **EPA-1613PAR; Components and Concentrations (ng/mL, ± 5% in nonane/2.4% toluene)**

Compound	Acronym	CAS #	Concentration (ng/mL)
PCDDs:			
2,3,7,8-Tetrachlorodibenzo-*p*-dioxin	2,3,7,8-TCDD	1746-01-6	40.0
1,2,3,7,8-Pentachlorodibenzo-*p*-dioxin	1,2,3,7,8-PeCDD	40321-76-4	200
1,2,3,4,7,8-Hexachlorodibenzo-*p*-dioxin	1,2,3,4,7,8-HxCDD	39227-28-6	200
1,2,3,6,7,8-Hexachlorodibenzo-*p*-dioxin	1,2,3,6,7,8-HxCDD	57653-85-7	200
1,2,3,7,8,9-Hexachlorodibenzo-*p*-dioxin	1,2,3,7,8,9-HxCDD	19408-74-3	200
1,2,3,4,6,7,8-Heptachlorodibenzo-*p*-dioxin	1,2,3,4,6,7,8-HpCDD	35822-46-9	200
Octachlorodibenzo-*p*-dioxin	OCDD	3268-87-9	400
PCDFs:			
2,3,7,8-Tetrachlorodibenzofuran	2,3,7,8-TCDF	51207-31-9	40.0
1,2,3,7,8-Pentachlorodibenzofuran	1,2,3,7,8-PeCDF	57117-41-6	200
2,3,4,7,8-Pentachlorodibenzofuran	2,3,4,7,8-PeCDF	57117-31-4	200
1,2,3,4,7,8-Hexachlorodibenzofuran	1,2,3,4,7,8-HxCDF	70648-26-9	200
1,2,3,6,7,8-Hexachlorodibenzofuran	1,2,3,6,7,8-HxCDF	57117-44-9	200
1,2,3,7,8,9-Hexachlorodibenzofuran	1,2,3,7,8,9-HxCDF	72918-21-9	200
2,3,4,6,7,8-Hexachlorodibenzofuran	2,3,4,6,7,8-HxCDF	60851-34-5	200
1,2,3,4,6,7,8-Heptachlorodibenzofuran	1,2,3,4,6,7,8-HpCDF	67562-39-4	200
1,2,3,4,7,8,9-Heptachlorodibenzofuran	1,2,3,4,7,8,9-HpCDF	55673-89-7	200
Octachlorodibenzofuran	OCDF	39001-02-0	400

Certified By: _____ **Date:** 11/05/2021
(mm/dd/yyyy)
B.G. Chittim, General Manager

Figure 1: **EPA-1613PAR; HRGC/HRMS Data (60 m DB-5 Column)**

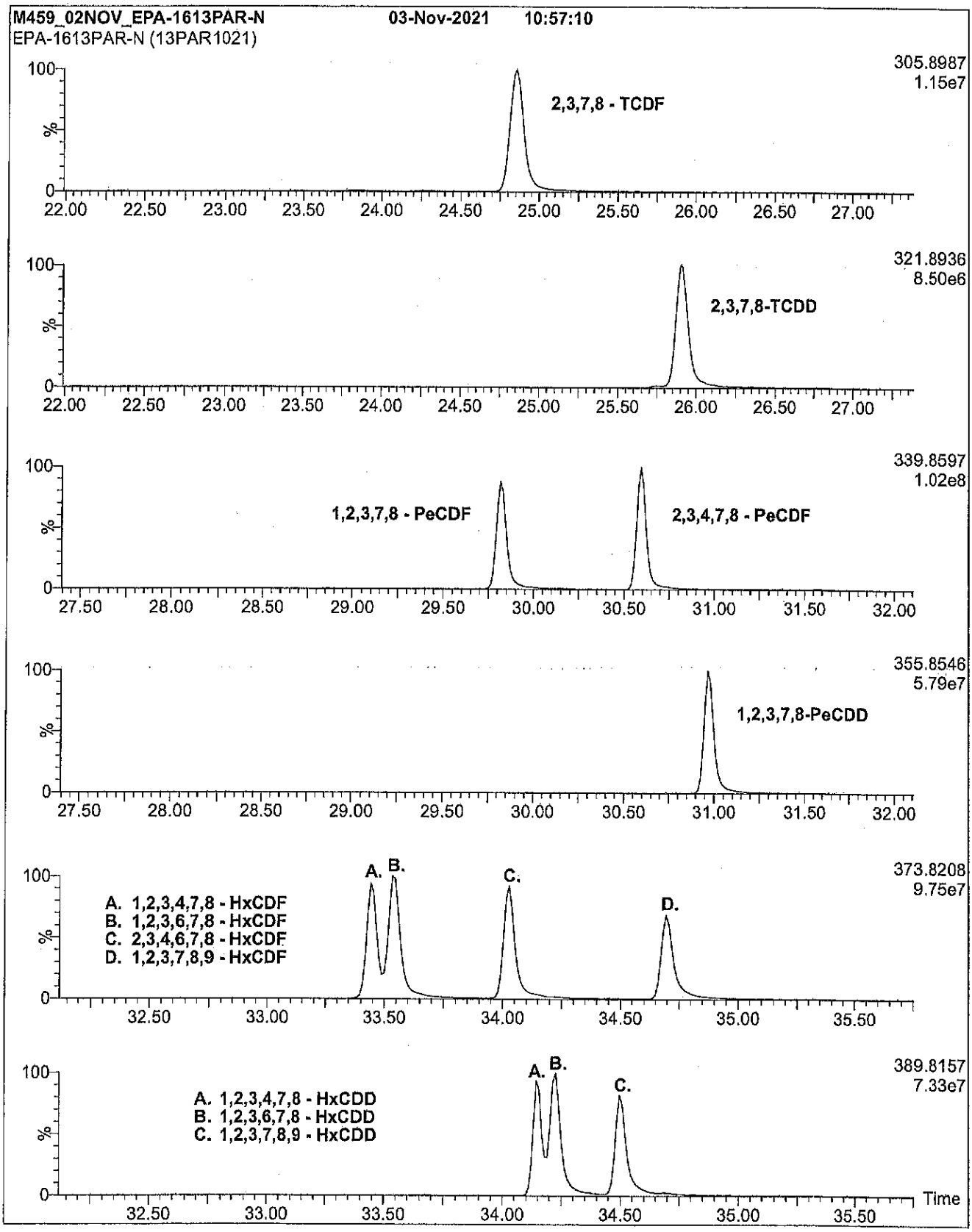
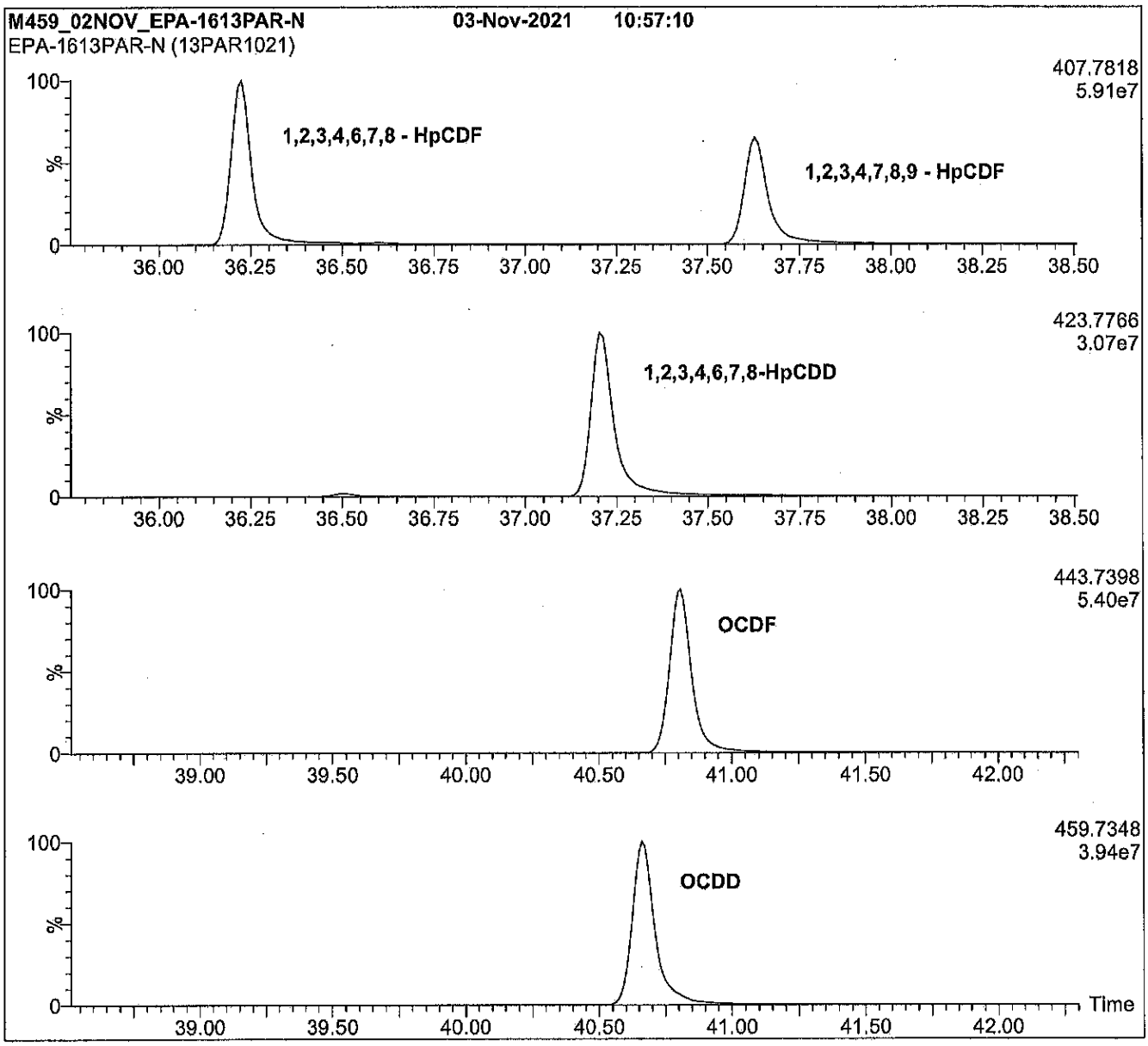


Figure 1: **EPA-1613PAR; HRGC/HRMS Data (60 m DB-5 Column)**



Conditions for Figure 1:

Agilent 6890N HRGC
Autospec Ultima HRMS

Chromatographic Conditions:

Column:	60 m DB-5 (0.25 mm id, 0.25 µm film thickness) Agilent J&W		
Flow:	Constant at 1.4 mL/min	Oven:	150°C (1 min)
Injector:	280°C (Splitless Injection)		12°C/min to 200°C
Ionization:	EI+		3°C/min to 235°C
Detector:	280°C		235°C (8 min)
	SIR at 10,000 mass resolving power		8°C/min to 310°C
			310°C (8 min)

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

EPA-1613CSS

U.S. EPA Method 1613 Cleanup Standard Spiking Solution

PRODUCT CODE:	EPA-1613CSS
LOT NUMBER:	13CSS1021
SOLVENT(S):	Nonane
DATE PREPARED: (mm/dd/yyyy)	10/29/2021
LAST TESTED: (mm/dd/yyyy)	10/31/2021
EXPIRY DATE: (mm/dd/yyyy)	10/31/2028
RECOMMENDED STORAGE:	Store ampoule in a cool, dark place

DESCRIPTION: K003104

EPA-1613CSS contains 2,3,7,8-($^{37}Cl_4$)tetrachlorodibenzo-*p*-dioxin at the concentration given in Table A.

EPA-1613CSS was designed and prepared to be used according to U.S. EPA Method 1613, Revision B.

2,3,7,8-($^{37}Cl_4$)Tetrachlorodibenzo-*p*-dioxin has a chemical purity of >98% and an isotopic (^{37}Cl) purity of ≥95%.

DOCUMENTATION/ DATA ATTACHED:

Table A: Components and Concentrations of the Solution
Figure 1: HRGC/HRMS Data (SIR; 10,000 mass resolving power)

ADDITIONAL INFORMATION:

- See page 2 for further details.

Table A: **EPA-1613CSS; Components and Concentrations (ng/mL, ± 5% in nonane)**

Compound	Acronym	CAS #	Concentration (ng/mL)
2,3,7,8-($^{37}Cl_4$)Tetrachlorodibenzo-*p*-dioxin	$^{37}Cl_4$-2,3,7,8-TCDD	85508-50-5	40.0

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: _____ **Date:** 11/05/2021 (mm/dd/yyyy)
B.G. Chittim, General Manager

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

INTENDED USE:

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HANDLING:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products, as well as mixtures and calibration solutions, are compared to older lots in a similar manner. This further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters $x_1, x_2, \ldots x_n$ on which it depends is:

$$u_c(y(x_1, x_2, \ldots x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ±5% (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

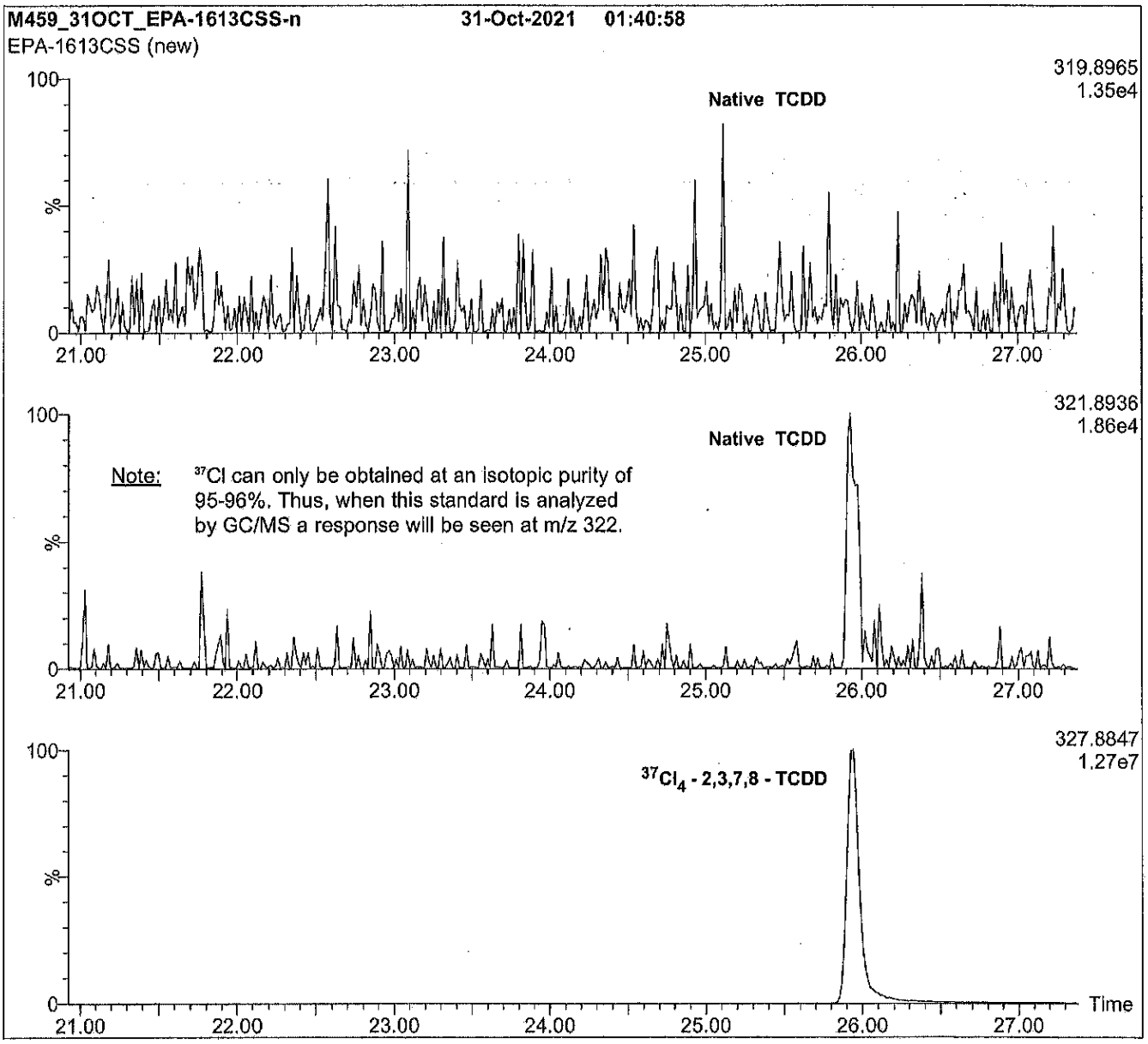
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A1226), and ISO 17034 by ANSI National Accreditation Board (ANAB; AR-1523).

CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Figure 1: **EPA-1613CSS; HRGC/HRMS Data (60 m DB-5 Column)**



Conditions for Figure 1:

Agilent 6890N HRGC
Autospec Ultima HRMS

Chromatographic Conditions:

Column:	60 m DB-5 (0.25 mm id, 0.25 µm film thickness) Agilent J&W		
Flow:	Constant at 1.4 mL/min	Oven:	150°C (1 min)
Injector:	280°C (Splitless Injection)		12°C/min to 200°C
Ionization:	EI+		3°C/min to 235°C
Detector:	280°C		235°C (8 min)
	SIR at 10,000 mass resolving power		8°C/min to 310°C
			310°C (8 min)

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

K9821

CS3WT

Calibration and Verification Solution (EPA-1613CS3) combined with Window Defining and 2,3,7,8-TCDD Resolution Testing Congeners

PRODUCT CODE:	CS3WT
LOT NUMBER:	CS3WT1021
SOLVENT(S):	Nonane/Toluene
DATE PREPARED: (mm/dd/yyyy)	11/01/2021
LAST TESTED: (mm/dd/yyyy)	11/02/2021
EXPIRY DATE: (mm/dd/yyyy)	11/02/2028
RECOMMENDED STORAGE:	Store ampoule in a cool, dark place

DESCRIPTION:

CS3WT is a solution/mixture of native ($^{12}C_{12}$) and mass-labelled ($^{13}C_{12}$) polychlorinated dibenzo-*p*-dioxins (PCDDs) and dibenzofurans (PCDFs). The components and their concentrations are given in Tables A and B.

CS3WT is an HRGC/HRMS calibration solution that was designed and prepared to be used according to U.S. EPA Method 1613, Revision B, in place of EPA-1613CS3 (lot: 13CS31021). Additionally, it contains the PCDD and PCDF isomers required to set retention time windows as well as test and establish isomer specificity for 2,3,7,8-TCDD on a DB-5 (or equivalent) capillary column.

The individual ^{13}C-labelled PCDDs and PCDFs all have chemical purities of >98% and isotopic purities of ≥99%. The 2,3,7,8-($^{37}Cl_4$)tetrachlorodibenzo-*p*-dioxin has a chemical purity of >98% and an isotopic (^{37}Cl) purity of ≥95%. The individual native 2,3,7,8-substituted PCDD and PCDF congeners all have chemical purities of >98%; the other congeners (window defining and resolution testing) should only be considered semi-quantitative.

This current lot of CS3WT is to be used with the 1613 calibration solutions having the following lot numbers:

PRODUCT CODE	LOT NUMBER
EPA-1613CS1	13CS11021
EPA-1613CS2	13CS21021
EPA-1613CS3	13CS31021
EPA-1613CS4	13CS41021
EPA-1613CS5	13CS51021
EPA-1613CSL	13CSL1021
EPA-1613CS0.5	13CS0.51021

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Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compounds it contains.

HANDLING:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products, as well as mixtures and calibration solutions, are compared to older lots in a similar manner. This further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2,...x_n on which it depends is:

$$u_c(y(x_1, x_2, ...x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ±5% (calculated with a coverage factor of 2 and a level of confidence of 95%) has been assigned to the quantitative components in this product. A maximum combined percent relative uncertainty of ±20% has been assigned to the semi-quantitative components in this product.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A1226), and ISO 17034 by ANSI National Accreditation Board (ANAB; AR-1523).

CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO17034 REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Table A: **CS3WT; Quantitative Components and Concentrations (ng/mL, ± 5%, in nonane/4.5% toluene)**

Compound		Acronym	CAS #	Concentration (ng/mL)
Native PCDDs:	**Designation[a]**			
2,3,7,8-Tetrachlorodibenzo-*p*-dioxin		2,3,7,8-TCDD	1746-01-6	10.0
1,2,3,7,8-Pentachlorodibenzo-*p*-dioxin		1,2,3,7,8-PeCDD	40321-76-4	50.0
1,2,3,4,7,8-Hexachlorodibenzo-*p*-dioxin		1,2,3,4,7,8-HxCDD	39227-28-6	50.0
1,2,3,6,7,8-Hexachlorodibenzo-*p*-dioxin		1,2,3,6,7,8-HxCDD	57653-85-7	50.0
1,2,3,7,8,9-Hexachlorodibenzo-*p*-dioxin	Last HxCDD[b]	1,2,3,7,8,9-HxCDD	19408-74-3	50.0
1,2,3,4,6,7,8-Heptachlorodibenzo-*p*-dioxin	Last HpCDD	1,2,3,4,6,7,8-HpCDD	35822-46-9	50.0
Octachlorodibenzo-*p*-dioxin		OCDD	3268-87-9	100
Native PCDFs:	**Designation[a]**			
2,3,7,8-Tetrachlorodibenzofuran		2,3,7,8-TCDF	51207-31-9	10.0
1,2,3,7,8-Pentachlorodibenzofuran		1,2,3,7,8-PeCDF	57117-41-6	50.0
2,3,4,7,8-Pentachlorodibenzofuran		2,3,4,7,8-PeCDF	57117-31-4	50.0
1,2,3,4,7,8-Hexachlorodibenzofuran		1,2,3,4,7,8-HxCDF	70648-26-9	50.0
1,2,3,6,7,8-Hexachlorodibenzofuran		1,2,3,6,7,8-HxCDF	57117-44-9	50.0
1,2,3,7,8,9-Hexachlorodibenzofuran		1,2,3,7,8,9-HxCDF	72918-21-9	50.0
2,3,4,6,7,8-Hexachlorodibenzofuran		2,3,4,6,7,8-HxCDF	60851-34-5	50.0
1,2,3,4,6,7,8-Heptachlorodibenzofuran	First HpCDF[c]	1,2,3,4,6,7,8-HpCDF	67562-39-4	50.0
1,2,3,4,7,8,9-Heptachlorodibenzofuran	Last HpCDF	1,2,3,4,7,8,9-HpCDF	55673-89-7	50.0
Octachlorodibenzofuran		OCDF	39001-02-0	100
Mass-Labelled PCDDs:				
2,3,7,8-Tetrachloro($^{13}C_{12}$)dibenzo-*p*-dioxin		$^{13}C_{12}$-2,3,7,8-TCDD	76523-40-5	100
1,2,3,7,8-Pentachloro($^{13}C_{12}$)dibenzo-*p*-dioxin		$^{13}C_{12}$-1,2,3,7,8-PeCDD	109719-79-1	100
1,2,3,4,7,8-Hexachloro($^{13}C_{12}$)dibenzo-*p*-dioxin		$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	109719-80-4	100
1,2,3,6,7,8-Hexachloro($^{13}C_{12}$)dibenzo-*p*-dioxin		$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	109719-81-5	100
1,2,3,4,6,7,8-Heptachloro($^{13}C_{12}$)dibenzo-*p*-dioxin		$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	109719-83-7	100
Octachloro($^{13}C_{12}$)dibenzo-*p*-dioxin		$^{13}C_{12}$-OCDD	114423-97-1	200
Mass-Labelled PCDFs:				
2,3,7,8-Tetrachloro($^{13}C_{12}$)dibenzofuran		$^{13}C_{12}$-2,3,7,8-TCDF	89059-46-1	100
1,2,3,7,8-Pentachloro($^{13}C_{12}$)dibenzofuran		$^{13}C_{12}$-1,2,3,7,8-PeCDF	109719-77-9	100
2,3,4,7,8-Pentachloro($^{13}C_{12}$)dibenzofuran		$^{13}C_{12}$-2,3,4,7,8-PeCDF	116843-02-8	100
1,2,3,4,7,8-Hexachloro($^{13}C_{12}$)dibenzofuran		$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	114423-98-2	100
1,2,3,6,7,8-Hexachloro($^{13}C_{12}$)dibenzofuran		$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	116843-03-9	100
1,2,3,7,8,9-Hexachloro($^{13}C_{12}$)dibenzofuran		$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	116843-04-0	100
2,3,4,6,7,8-Hexachloro($^{13}C_{12}$)dibenzofuran		$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	116843-05-1	100
1,2,3,4,6,7,8-Heptachloro($^{13}C_{12}$)dibenzofuran		$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	109719-84-8	100
1,2,3,4,7,8,9-Heptachloro($^{13}C_{12}$)dibenzofuran		$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	109719-94-0	100
Cleanup Standard:				
2,3,7,8-($^{37}Cl_4$)Tetrachlorodibenzo-*p*-dioxin		$^{37}Cl_4$-2,3,7,8-TCDD	85508-50-5	10.0
Internal Standards:				
1,2,3,4-Tetrachloro($^{13}C_{12}$)dibenzo-*p*-dioxin		$^{13}C_{12}$-1,2,3,4-TCDD	114423-99-3	100
1,2,3,7,8,9-Hexachloro($^{13}C_{12}$)dibenzo-*p*-dioxin		$^{13}C_{12}$-1,2,3,7,8,9-HxCDD	109719-82-6	100

[a] First/Last eluting isomer for the specified homologue group (see Table B for additional Window Definers).
[b, c] – see Table B for footnote.

Table B: **CS3WT; Semi-Quantitative Components and Concentrations (ng/mL, ± 20%, in nonane/4.5% toluene)**

Compound		Acronym	CAS #	Concentration (ng/mL)
PCDD Window Definers:	**Designation[a]**			
1,3,6,8-Tetrachlorodibenzo-*p*-dioxin	First TCDD	1,3,6,8-TCDD	33423-92-6	10.0
1,2,8,9-Tetrachlorodibenzo-*p*-dioxin	Last TCDD	1,2,8,9-TCDD	62470-54-6	10.0
1,2,4,6,8-/1,2,4,7,9-Pentachlorodibenzo-*p*-dioxin	First PeCDD	1,2,4,6,8-PeCDD 1,2,4,7,9-PeCDD	71998-76-0 82291-37-0	50.0[d]
1,2,3,8,9-Pentachlorodibenzo-*p*-dioxin	Last PeCDD	1,2,3,8,9-PeCDD	71925-18-3	50.0
1,2,4,6,7,9-Hexachlorodibenzo-*p*-dioxin	First HxCDD	1,2,4,6,7,9-HxCDD	39227-62-8	50.0
1,2,3,4,6,7,9-Heptachlorodibenzo-*p*-dioxin	First HpCDD	1,2,3,4,6,7,9-HpCDD	58200-70-7	50.0
PCDF Window Definers:	**Designation[a]**			
1,3,6,8-Tetrachlorodibenzofuran	First TCDF	1,3,6,8-TCDF	71998-72-6	10.0
1,2,8,9-Tetrachlorodibenzofuran	Last TCDF	1,2,8,9-TCDF	70648-22-5	10.0
1,3,4,6,8-Pentachlorodibenzofuran	First PeCDF	1,3,4,6,8-PeCDF	83704-55-6	50.0
1,2,3,8,9-Pentachlorodibenzofuran	Last PeCDF	1,2,3,8,9-PeCDF	83704-54-5	50.0
1,2,3,4,6,8-Hexachlorodibenzofuran	First HxCDF	1,2,3,4,6,8-HxCDF	69698-60-8	50.0
2,3,7,8-TCDD Resolution Testing Isomers:				
1,2,3,4-Tetrachlorodibenzo-*p*-dioxin		1,2,3,4-TCDD	30746-58-8	5.00
1,2,3,7-/1,2,3,8-Tetrachlorodibenzo-*p*-dioxin		1,2,3,7-TCDD 1,2,3,8-TCDD	67028-18-6 53555-02-5	5.00[d]
1,2,3,9-Tetrachlorodibenzo-*p*-dioxin		1,2,3,9-TCDD	71669-26-6	10.0

[a] First/Last eluting isomer for the specified homologue group (see Table A for additional Window Definers).

[b] 1,2,3,4,6,7-HxCDD (last eluting HxCDD) not included; coelutes with 1,2,3,7,8,9-HxCDD on a 60 m DB-5 column. Use 1,2,3,7,8,9-HxCDD (see Table A) and 1,2,3,4,6,7,9-HpCDD to approximate the end of the HxCDD window.

[c] 1,2,3,4,8,9-HxCDF (last eluting HxCDF) not included; can interfere with 1,2,3,7,8,9-HxCDF on a 60 m DB-5 column. Use 1,2,3,4,6,7,8-HpCDF (see Table A) to approximate the end of the HxCDF window.

[d] Total concentration of isomers.

Certified By: _____ **Date:** 11/05/2021 (mm/dd/yyyy)

B.G. Chittim, General Manager

Figure 1: **CS3WT; HRGC/HRMS Data (60 m DB-5 Column)**

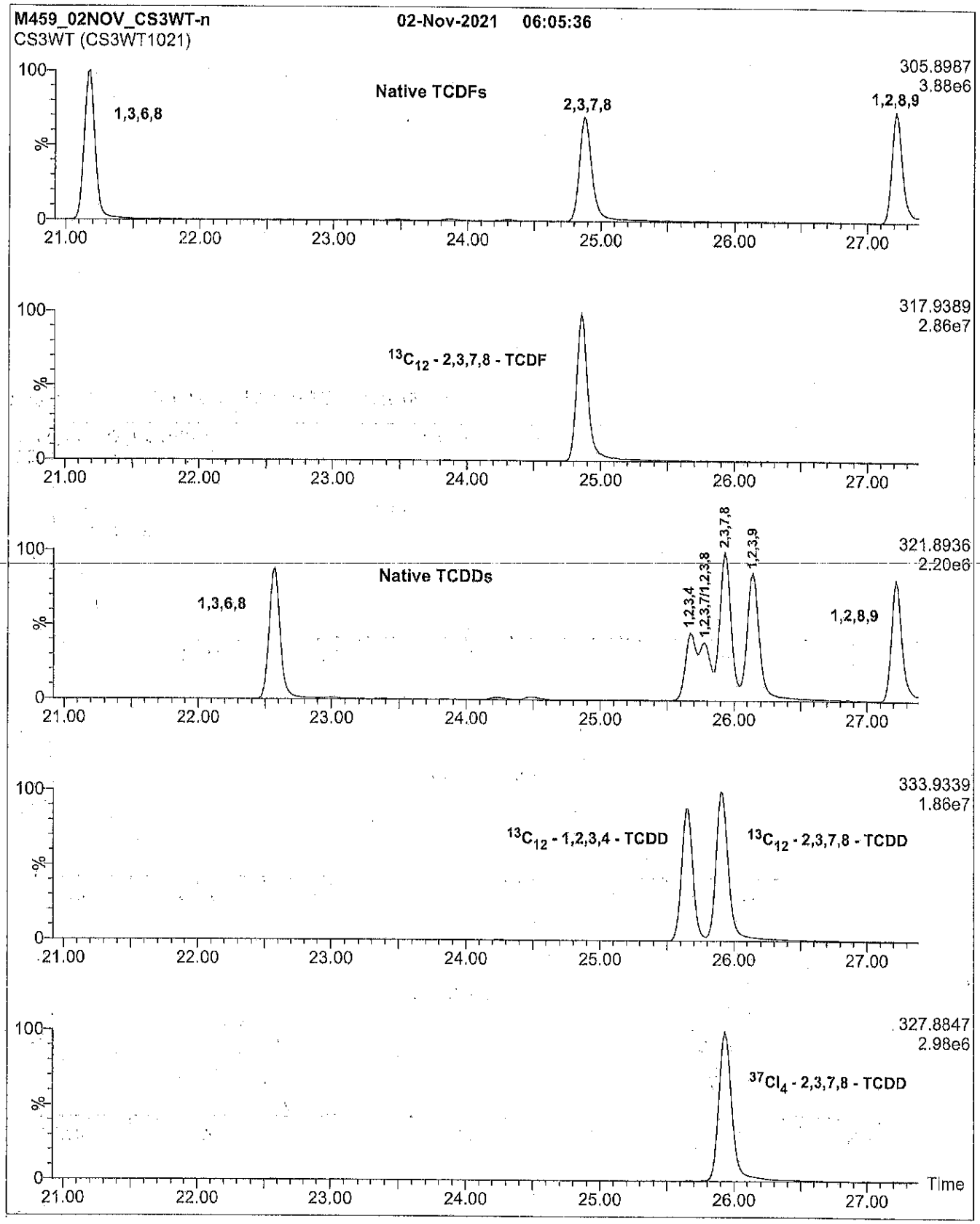


Figure 1: **CS3WT; HRGC/HRMS Data (60 m DB-5 Column)**

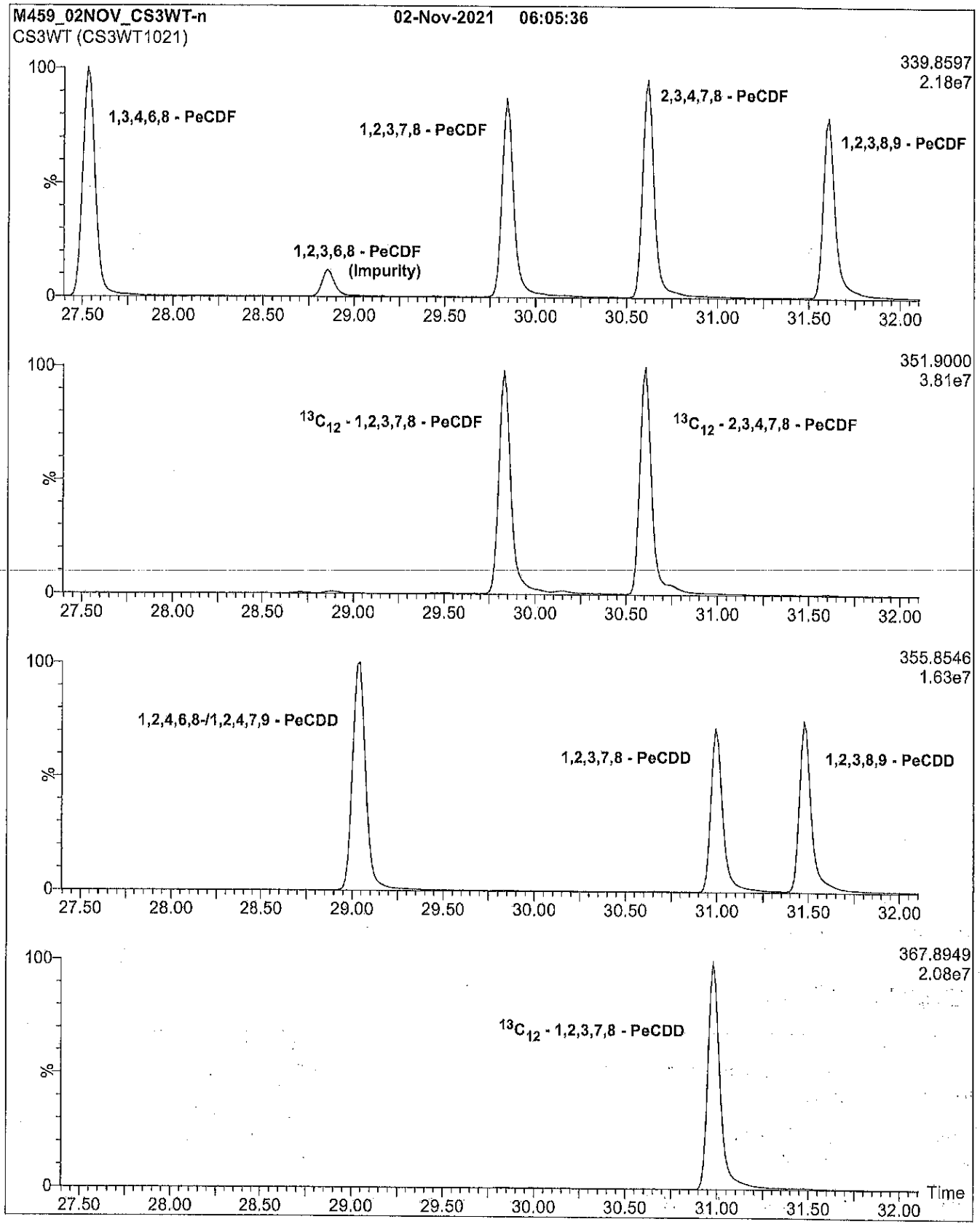


Figure 1: **CS3WT; HRGC/HRMS Data (60 m DB-5 Column)**

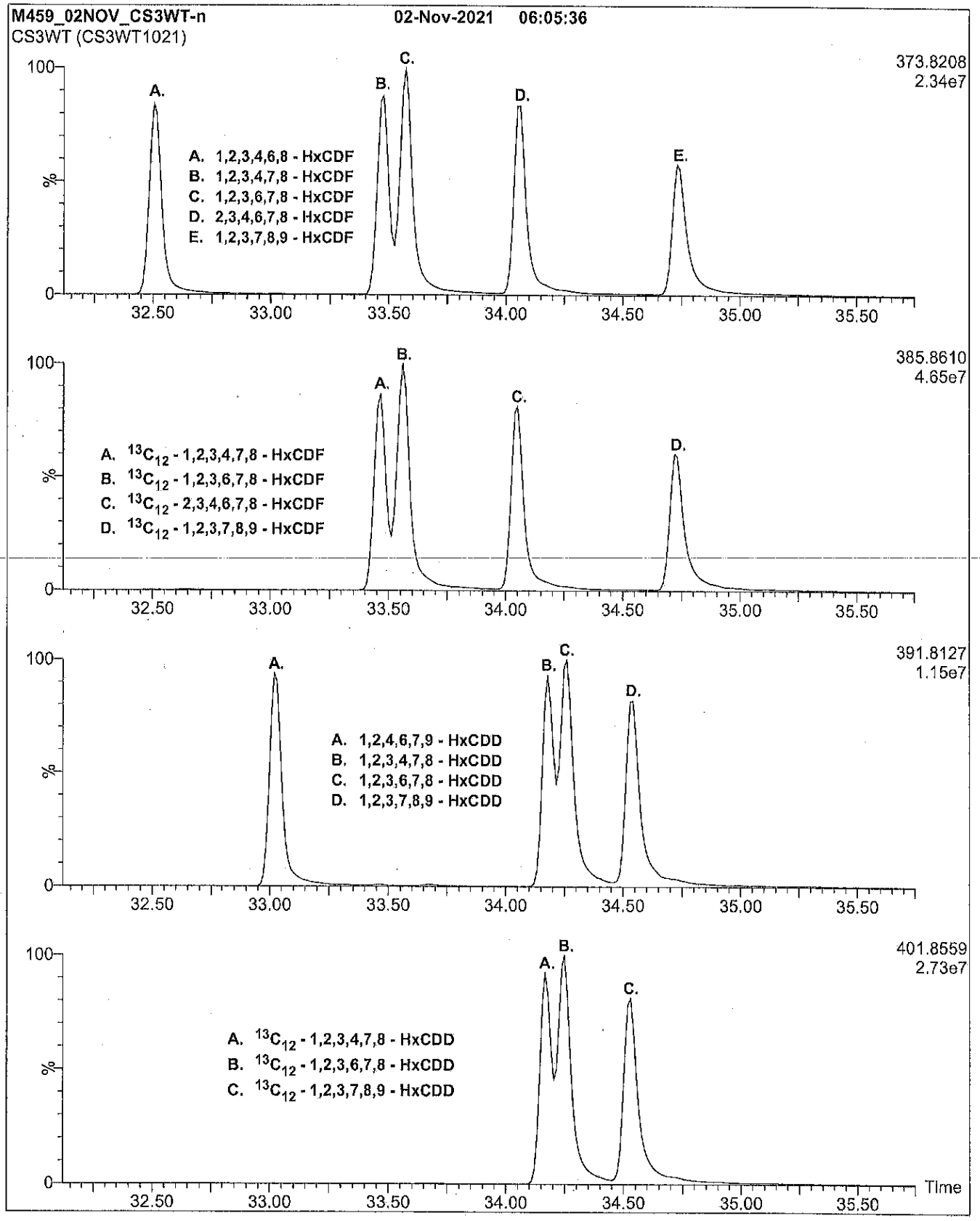


Figure 1: **CS3WT; HRGC/HRMS Data (60 m DB-5 Column)**

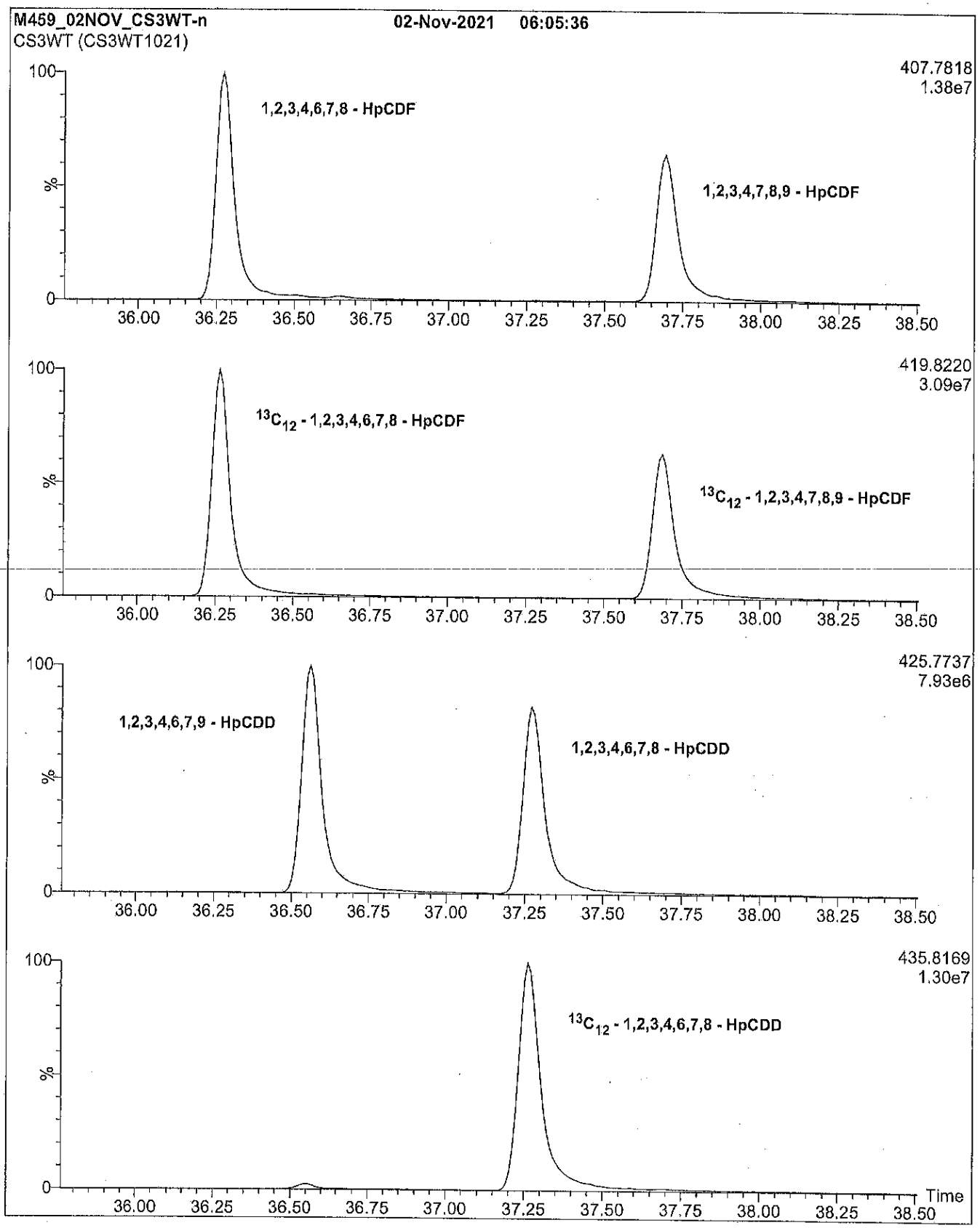
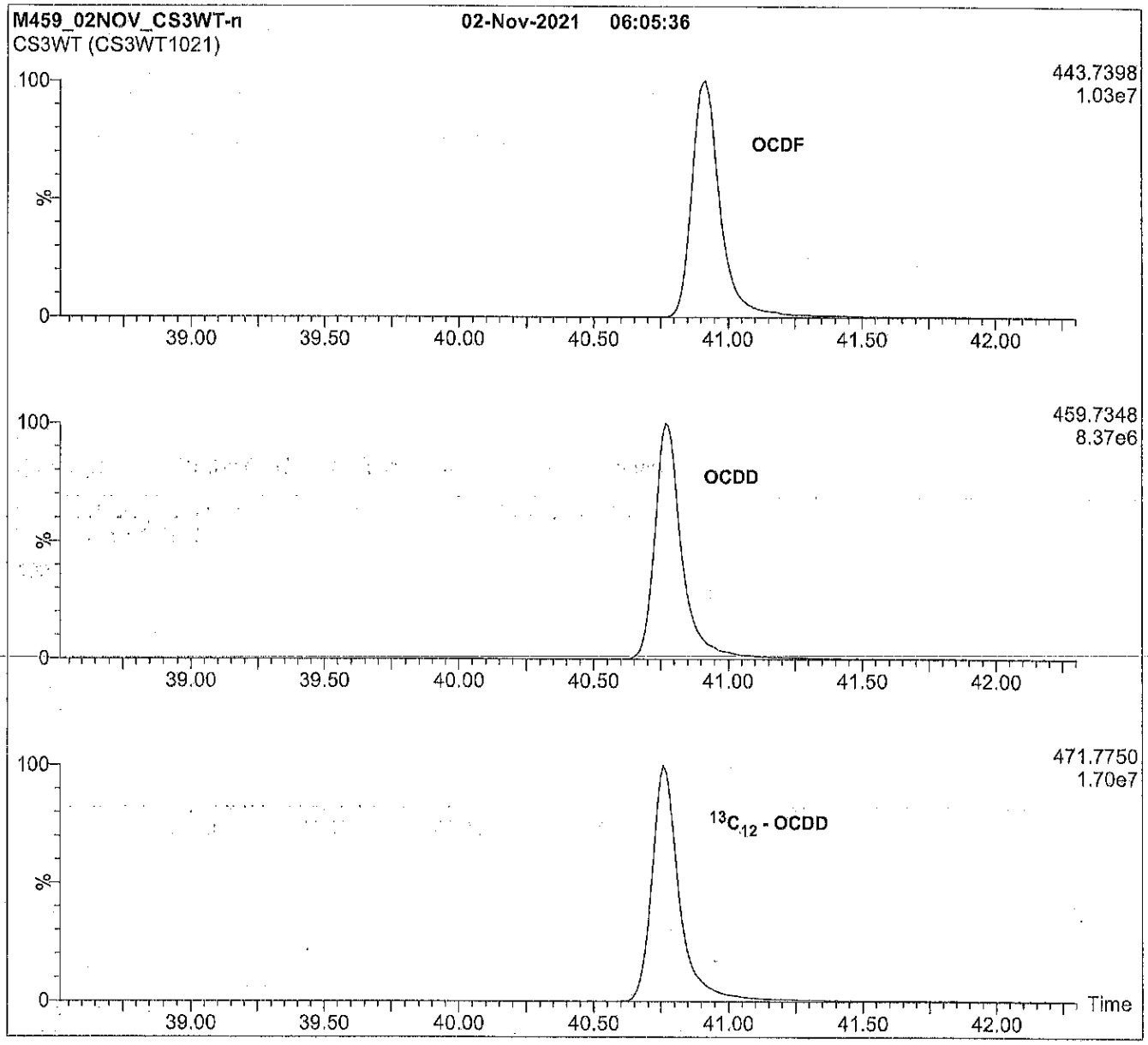


Figure 1: **CS3WT; HRGC/HRMS Data (60 m DB-5 Column)**



Conditions for Figure 1:

Agilent 6890N HRGC
Autospec Ultima HRMS

Chromatographic Conditions:

Column:	60 m DB-5 (0.25 mm id, 0.25 µm film thickness) Agilent J&W		
Flow:	Constant at 1.4 mL/min	Oven:	150°C (1 min)
Injector:	280°C (Splitless Injection)		12°C/min to 200°C
Ionization:	EI+		3°C/min to 235°C
Detector:	280°C		235°C (8 min)
	SIR at 10,000 mass resolving power		8°C/min to 310°C
			310°C (8 min)

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

EPA-1613LCS

U.S. EPA Method 1613
Labelled Compound Stock Solution

PRODUCT CODE:	EPA-1613LCS
LOT NUMBER:	13LCS1021
SOLVENT(S):	Nonane/Toluene
DATE PREPARED: (mm/dd/yyyy)	10/29/2021
LAST TESTED: (mm/dd/yyyy)	10/31/2021
EXPIRY DATE: (mm/dd/yyyy)	10/31/2028
RECOMMENDED STORAGE:	Store ampoule in a cool, dark place

K 9985
JK Reed
10/27/22

DESCRIPTION:

EPA-1613LCS is a solution/mixture of mass-labelled ($^{13}C_{12}$) polychlorinated dibenzo-*p*-dioxins (PCDDs) and dibenzofurans (PCDFs). The components and their concentrations are given in Table A.

EPA-1613LCS was designed and prepared to be used according to U.S. EPA Method 1613, Revision B.

The individual ^{13}C-labelled PCDDs and PCDFs all have chemical purities of >98% and isotopic purities of ≥99%.

DOCUMENTATION/ DATA ATTACHED:

Table A: Components and Concentrations
Figure 1: HRGC/HRMS Data (SIR; 10,000 mass resolving power)

ADDITIONAL INFORMATION:

- See page 2 for further details.

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519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compounds it contains.

HANDLING:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products, as well as mixtures and calibration solutions, are compared to older lots in a similar manner. This further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters $x_1, x_2, \ldots x_n$ on which it depends is:

$$u_c(y(x_1, x_2, \ldots, x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ±5% (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A1226), and ISO 17034 by ANSI National Accreditation Board (ANAB; AR-1523).

CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Table A: **EPA-1613LCS; Components and Concentrations (ng/mL, ± 5% in nonane/3.2% toluene)**

Compound	Acronym	CAS #	Concentration (ng/mL)
Mass-Labelled PCDDs:			
2,3,7,8-Tetrachloro($^{13}C_{12}$)dibenzo-*p*-dioxin	$^{13}C_{12}$-2,3,7,8-TCDD	76523-40-5	100
1,2,3,7,8-Pentachloro($^{13}C_{12}$)dibenzo-*p*-dioxin	$^{13}C_{12}$-1,2,3,7,8-PeCDD	109719-79-1	100
1,2,3,4,7,8-Hexachloro($^{13}C_{12}$)dibenzo-*p*-dioxin	$^{13}C_{12}$-1,2,3,4,7,8-HxCDD	109719-80-4	100
1,2,3,6,7,8-Hexachloro($^{13}C_{12}$)dibenzo-*p*-dioxin	$^{13}C_{12}$-1,2,3,6,7,8-HxCDD	109719-81-5	100
1,2,3,4,6,7,8-Heptachloro($^{13}C_{12}$)dibenzo-*p*-dioxin	$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDD	109719-83-7	100
Octachloro($^{13}C_{12}$)dibenzo-*p*-dioxin	$^{13}C_{12}$-OCDD	114423-97-1	200
Mass-Labelled PCDFs:			
2,3,7,8-Tetrachloro($^{13}C_{12}$)dibenzofuran	$^{13}C_{12}$-2,3,7,8-TCDF	89059-46-1	100
1,2,3,7,8-Pentachloro($^{13}C_{12}$)dibenzofuran	$^{13}C_{12}$-1,2,3,7,8-PeCDF	109719-77-9	100
2,3,4,7,8-Pentachloro($^{13}C_{12}$)dibenzofuran	$^{13}C_{12}$-2,3,4,7,8-PeCDF	116843-02-8	100
1,2,3,4,7,8-Hexachloro($^{13}C_{12}$)dibenzofuran	$^{13}C_{12}$-1,2,3,4,7,8-HxCDF	114423-98-2	100
1,2,3,6,7,8-Hexachloro($^{13}C_{12}$)dibenzofuran	$^{13}C_{12}$-1,2,3,6,7,8-HxCDF	116843-03-9	100
1,2,3,7,8,9-Hexachloro($^{13}C_{12}$)dibenzofuran	$^{13}C_{12}$-1,2,3,7,8,9-HxCDF	116843-04-0	100
2,3,4,6,7,8-Hexachloro($^{13}C_{12}$)dibenzofuran	$^{13}C_{12}$-2,3,4,6,7,8-HxCDF	116843-05-1	100
1,2,3,4,6,7,8-Heptachloro($^{13}C_{12}$)dibenzofuran	$^{13}C_{12}$-1,2,3,4,6,7,8-HpCDF	109719-84-8	100
1,2,3,4,7,8,9-Heptachloro($^{13}C_{12}$)dibenzofuran	$^{13}C_{12}$-1,2,3,4,7,8,9-HpCDF	109719-94-0	100

Certified By: _____ **Date:** 11/05/2021
(mm/dd/yyyy)
B.G. Chittim, General Manager

Figure 1: **EPA-1613LCS; HRGC/HRMS Data (60 m DB-5 Column)**

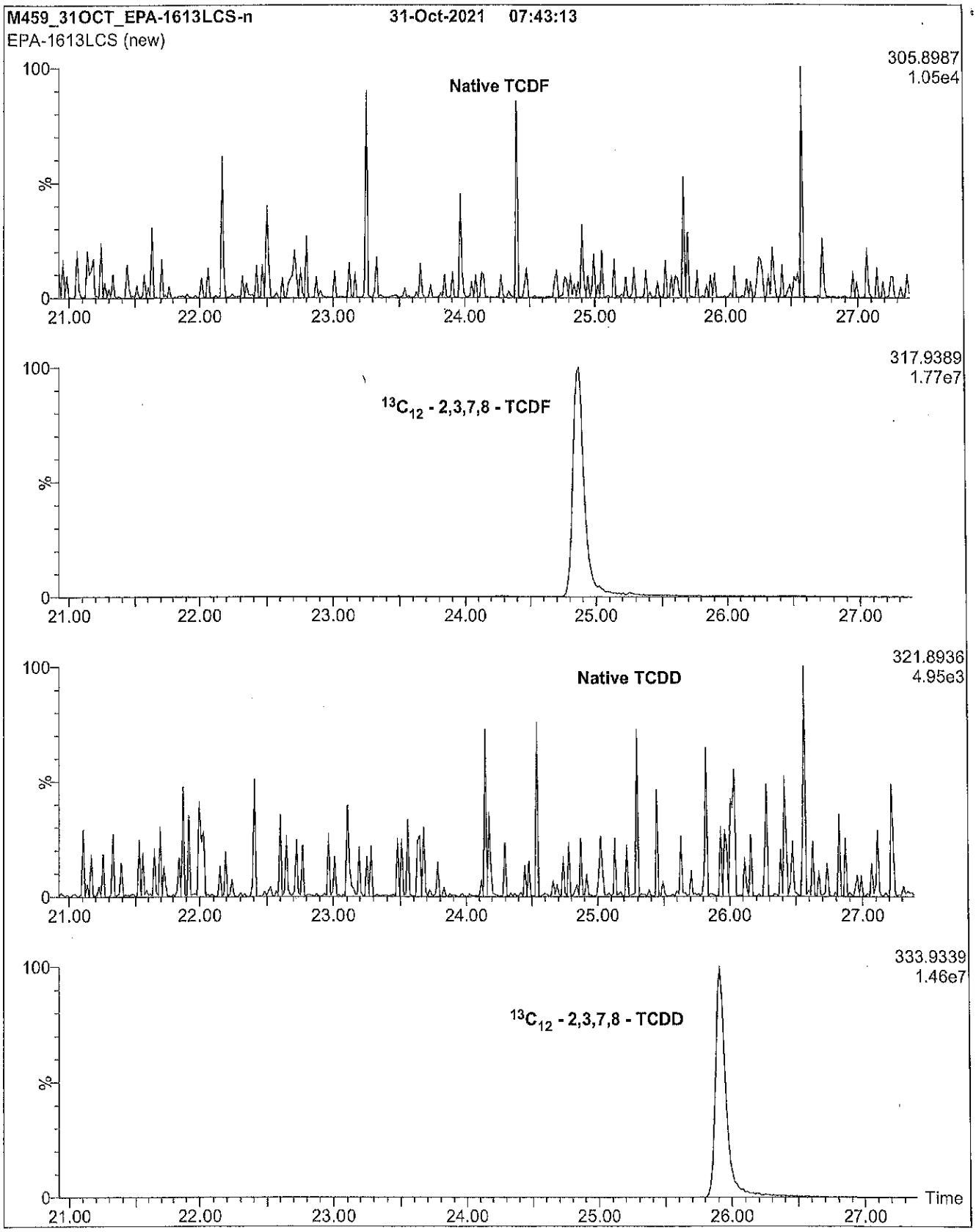


Figure 1: EPA-1613LCS; HRGC/HRMS Data (60 m DB-5 Column)

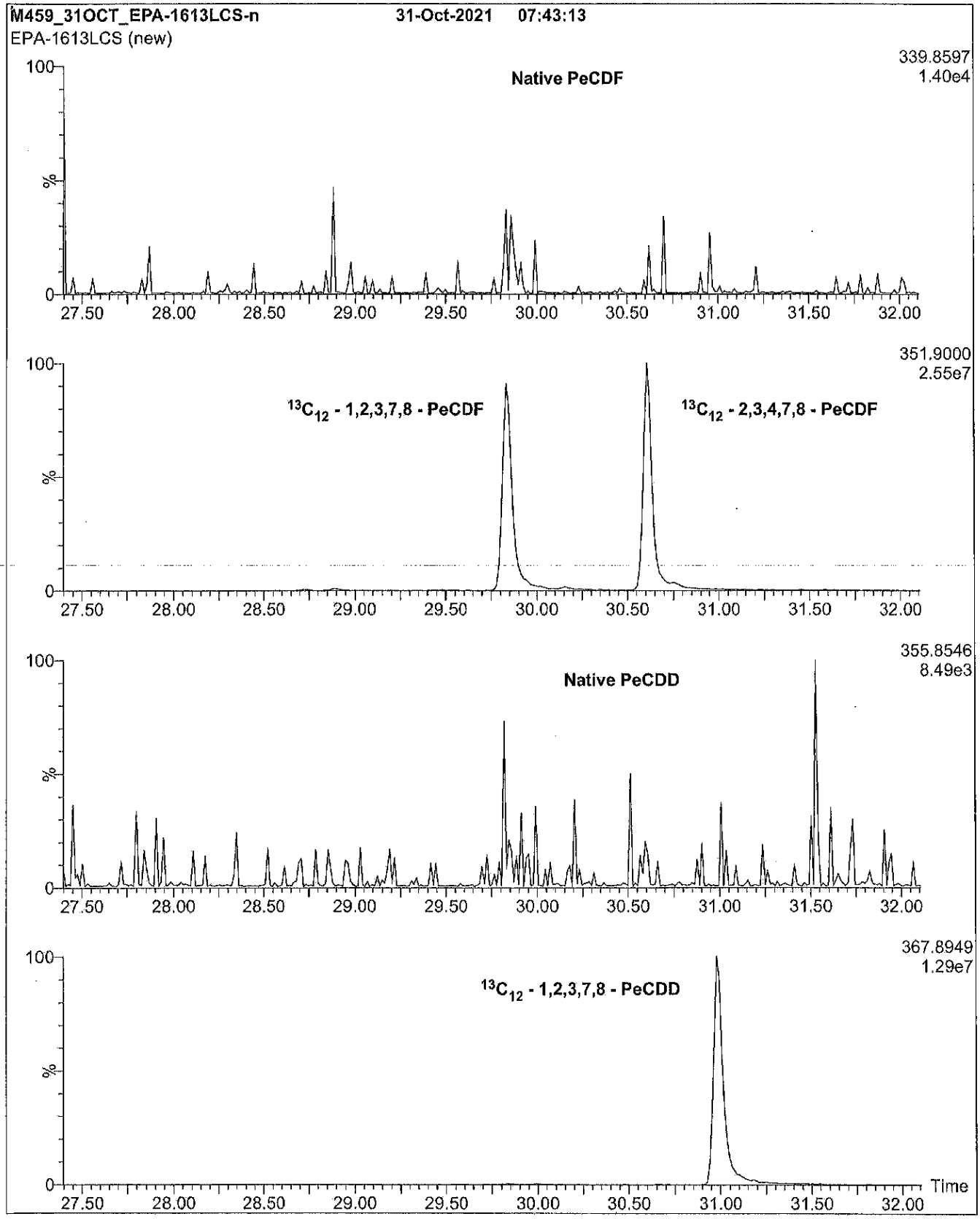


Figure 1: **EPA-1613LCS; HRGC/HRMS Data (60 m DB-5 Column)**

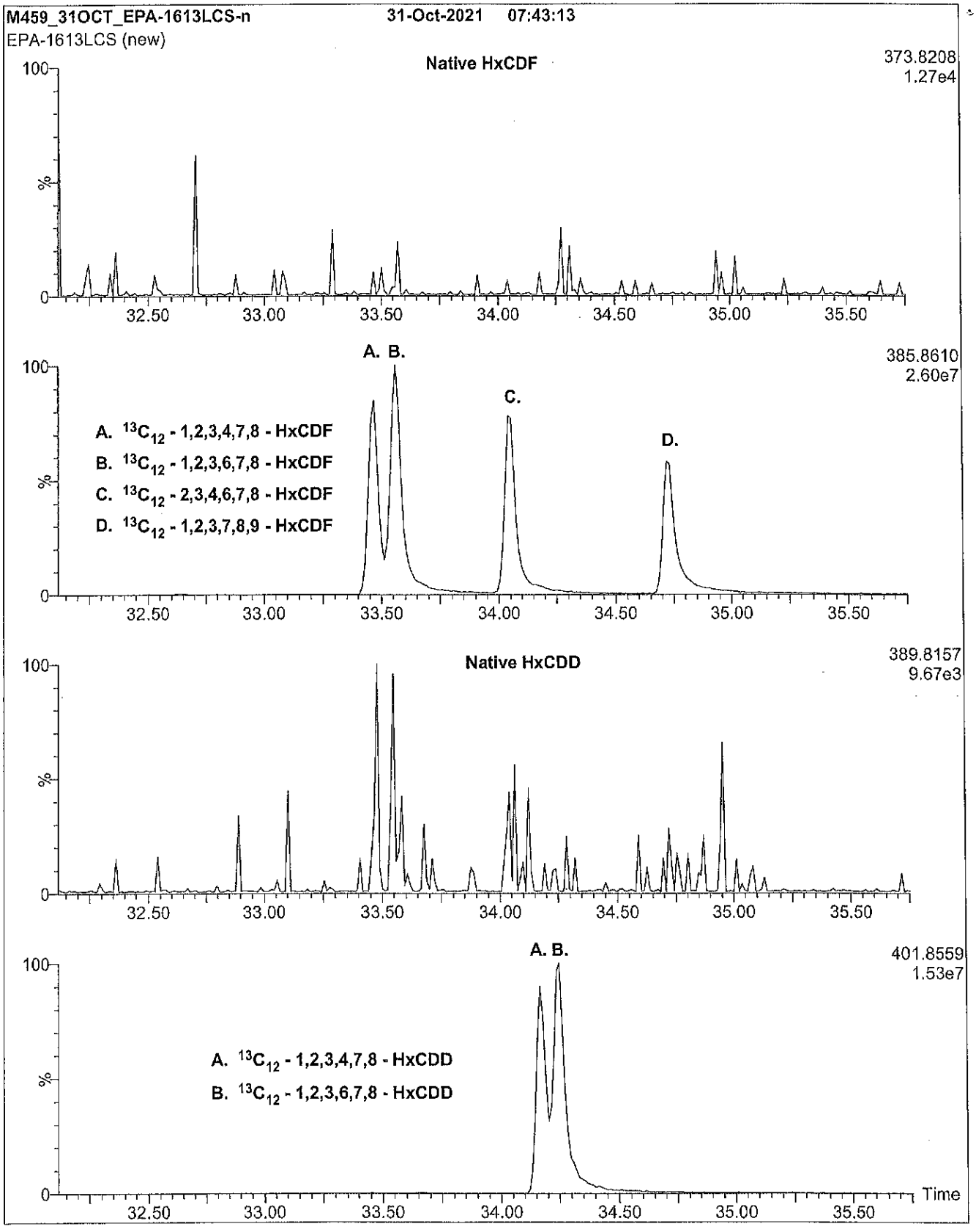


Figure 1: **EPA-1613LCS; HRGC/HRMS Data (60 m DB-5 Column)**

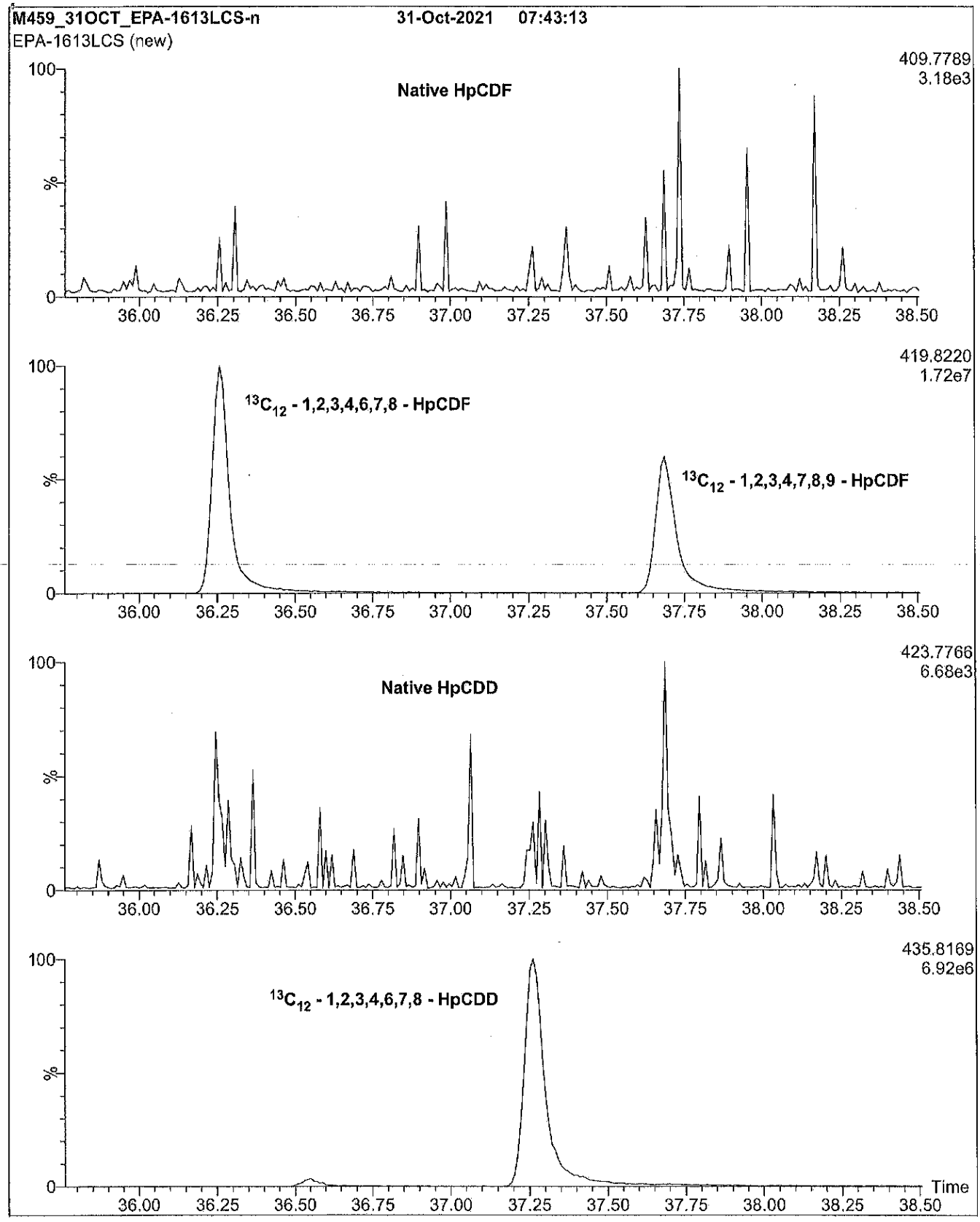
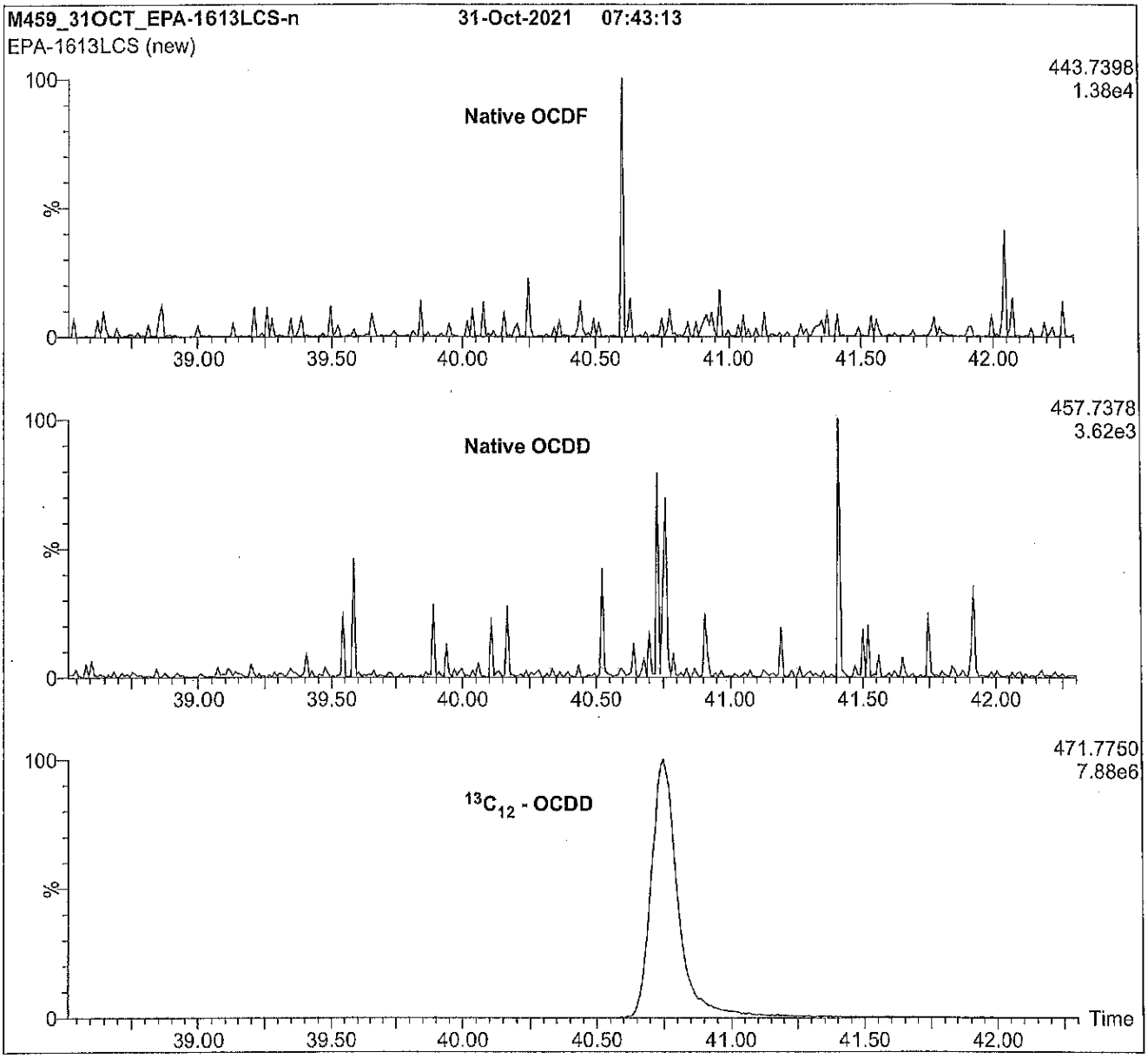


Figure 1: **EPA-1613LCS; HRGC/HRMS Data (60 m DB-5 Column)**



Conditions for Figure 1:

Agilent 6890N HRGC
Autospec Ultima HRMS

Chromatographic Conditions:

Column:	60 m DB-5 (0.25 mm id, 0.25 µm film thickness) Agilent J&W		
Flow:	Constant at 1.4 mL/min	Oven:	150°C (1 min)
Injector:	280°C (Splitless Injection)		12°C/min to 200°C
Ionization:	EI+		3°C/min to 235°C
Detector:	280°C		235°C (8 min)
	SIR at 10,000 mass resolving power		8°C/min to 310°C
			310°C (8 min)

WELLINGTON LABORATORIES

CERTIFICATE OF ANALYSIS
DOCUMENTATION

EPA-1613CSS

U.S. EPA Method 1613 Cleanup Standard Spiking Solution

PRODUCT CODE:	EPA-1613CSS
LOT NUMBER:	13CSS1021
SOLVENT(S):	Nonane
DATE PREPARED: (mm/dd/yyyy)	10/29/2021
LAST TESTED: (mm/dd/yyyy)	10/31/2021
EXPIRY DATE: (mm/dd/yyyy)	10/31/2028
RECOMMENDED STORAGE:	Store ampoule in a cool, dark place

K 9986
Recd. 10/27/22 JR

DESCRIPTION:

EPA-1613CSS contains 2,3,7,8-($^{37}Cl_4$)tetrachlorodibenzo-*p*-dioxin at the concentration given in Table A.

EPA-1613CSS was designed and prepared to be used according to U.S. EPA Method 1613, Revision B.

2,3,7,8-($^{37}Cl_4$)Tetrachlorodibenzo-*p*-dioxin has a chemical purity of >98% and an isotopic (^{37}Cl) purity of ≥95%.

DOCUMENTATION/ DATA ATTACHED:

Table A: Components and Concentrations of the Solution
Figure 1: HRGC/HRMS Data (SIR; 10,000 mass resolving power)

ADDITIONAL INFORMATION:

- See page 2 for further details.

Table A: **EPA-1613CSS; Components and Concentrations (ng/mL, ± 5% in nonane)**

Compound	Acronym	CAS #	Concentration (ng/mL)
2,3,7,8-($^{37}Cl_4$)Tetrachlorodibenzo-*p*-dioxin	$^{37}Cl_4$-2,3,7,8-TCDD	85508-50-5	40.0

FOR LABORATORY USE ONLY: NOT FOR HUMAN OR DRUG USE

Certified By: _____ **Date:** 11/05/2021 (mm/dd/yyyy)
B.G. Chittim, General Manager

Wellington Laboratories Inc., 345 Southgate Dr. Guelph ON N1G 3M5 CANADA
519-822-2436 • Fax: 519-822-2849 • info@well-labs.com

INTENDED USE:

The products prepared by Wellington Laboratories Inc. are for laboratory use only. This certified reference material (CRM) was designed to be used as a standard for the identification and/or quantification of the specific chemical compounds it contains.

HANDLING:

This product should only be used by qualified personnel familiar with its potential hazards and trained in the handling of hazardous chemicals. Due care should be exercised to prevent unnecessary human contact or ingestion. All procedures should be carried out in a well-functioning fume hood and suitable gloves, eye protection, and clothing should be worn at all times. Waste should be disposed of according to national and regional regulations. Safety Data Sheets (SDSs) are available upon request.

SYNTHESIS / CHARACTERIZATION:

Our products are synthesized using single-product unambiguous routes whenever possible. They are then characterized, and their structures and purities confirmed, using a combination of the most relevant techniques, such as NMR, GC/MS, LC/MS/MS, SFC/UV/MS/MS, x-ray crystallography, and melting point. Isotopic purities of mass-labelled compounds are also confirmed using HRGC/HRMS and/or LC/MS/MS.

HOMOGENEITY:

Prior to solution preparation, crystalline material is tested for homogeneity using a variety of techniques (as stated above) and its solubility in a given diluent is taken into consideration. Duplicate solutions of a new product are prepared from the same crystalline lot and, after the addition of an appropriate internal standard, they are compared by GC/MS, LC/MS/MS, and/or SFC/UV/MS/MS. The relative response factors of the analyte of interest in each solution are required to be <5% RSD. New solution lots of existing products, as well as mixtures and calibration solutions, are compared to older lots in a similar manner. This further confirms the homogeneity of the crystalline material as well as the stability and homogeneity of the solutions in the storage containers. In order to maintain the integrity of the assigned value(s), and associated uncertainty, the dilution or injection of a subsample of this product should be performed using calibrated measuring equipment.

UNCERTAINTY:

The maximum combined relative standard uncertainty of our reference standard solutions is calculated using the following equation:

The combined relative standard uncertainty, $u_c(y)$, of a value y and the uncertainty of the independent parameters x_1, x_2,...x_n on which it depends is:

$$u_c(y(x_1, x_2, ...x_n)) = \sqrt{\sum_{i=1}^{n} u(y, x_i)^2}$$

where x is expressed as a relative standard uncertainty of the individual parameter.

The individual uncertainties taken into account include those associated with weights (calibration of the balance) and volumes (calibration of the volumetric glassware). An expanded maximum combined percent relative uncertainty of ±5% (calculated with a coverage factor of 2 and a level of confidence of 95%) is stated on the Certificate of Analysis for all of our products.

TRACEABILITY:

All reference standard solutions are traceable to specific crystalline lots. The microbalances used for solution preparation are regularly calibrated by an external ISO/IEC 17025 accredited laboratory. In addition, their calibration is verified prior to each weighing using calibrated external weights traceable to an ISO/IEC 17025 accredited laboratory. All volumetric glassware used is calibrated, of Class A tolerance, and traceable to an ISO/IEC 17025 accredited laboratory. For certain products, traceability to international interlaboratory studies has also been established.

EXPIRY DATE / PERIOD OF VALIDITY:

Ongoing stability studies of this product have demonstrated stability in its composition and concentration, until the specified expiry date, in the unopened ampoule. Monitoring for any degradation or change in concentration of the listed analyte(s) is performed on a routine basis.

LIMITED WARRANTY:

At the time of shipment, all products are warranted to be free of defects in material and workmanship and to conform to the stated technical and purity specifications.

QUALITY MANAGEMENT:

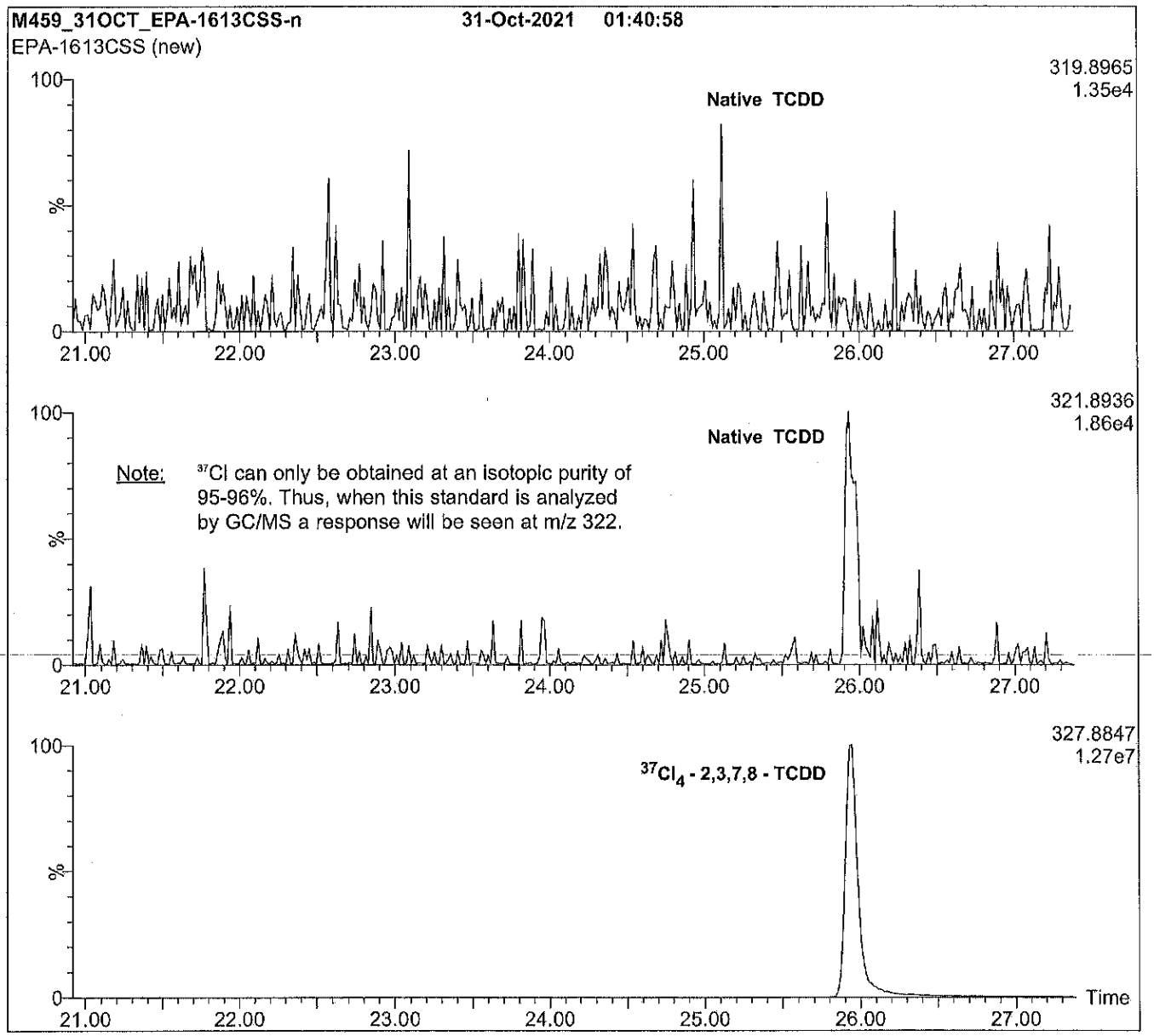
This product was produced using a Quality Management System registered to the latest versions of ISO 9001 by SAI Global, ISO/IEC 17025 by the Canadian Association for Laboratory Accreditation Inc. (CALA; A1226), and ISO 17034 by ANSI National Accreditation Board (ANAB; AR-1523).

CALA Testing Accreditation No. A1226

ANAB ANSI National Accreditation Board ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

For additional information or assistance concerning this or any other products from Wellington Laboratories Inc., please visit our website at www.well-labs.com or contact us directly at info@well-labs.com

Figure 1: **EPA-1613CSS; HRGC/HRMS Data (60 m DB-5 Column)**



Conditions for Figure 1:

Agilent 6890N HRGC
Autospec Ultima HRMS

Chromatographic Conditions:

Column:	60 m DB-5 (0.25 mm id, 0.25 µm film thickness) Agilent J&W		
Flow:	Constant at 1.4 mL/min	Oven:	150°C (1 min)
Injector:	280°C (Splitless Injection)		12°C/min to 200°C
Ionization:	EI+		3°C/min to 235°C
Detector:	280°C		235°C (8 min)
	SIR at 10,000 mass resolving power		8°C/min to 310°C
			310°C (8 min)

Recipient Copy

CHAIN-OF-CUSTODY RECORD

COC No. 15600

Order Number: CB015015 Date Shipped: 1/31/2023 AirBill No(s): 633163298570

From: QATS LABORATORY
2700 CHANDLER AVENUE, BLDG. B
LAS VEGAS, NV 89120
PHONE: 1-702-895-8712

To: SUE DUNNIHOO
ANALYTICAL RESOURCES INC.
4611 S. 134TH PLACE SUITE 100
TUKWILA WA 98168
250-695-6207

Sample ID	Qty	Description/Remarks	→ Catalogue Number
PSRM0172 - L441373	1	PUGET SOUND SEDIMENT RM	PS-SRM
PSRM0173 - L441374	1	PUGET SOUND SEDIMENT RM	PS-SRM
PSRM0174 - ~~L441374~~ L441375 JS- 02/06/23	1	PUGET SOUND SEDIMENT RM	PS-SRM

01/31/2023

PUGET SOUND SRM FOR THE DUWAMISH AOC5 PROJECT

Please use the enclosed Sample Preparation Instructions. If catalogue number(s) are listed at the top of the Sample Preparation Instructions use the Sample Preparation Instructions with catalogue number(s) matching the catalogue number(s) of each of the samples listed above.

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
[signature]	(1400) 01/31/2023	[signature]	02/06/23 1415
Custody Seal(s): Present/Absent	Remarks:		
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

Report No. 00, 9/11/2014 *SMP Version 3.3*

Analytical Resources, LLC
Analytical Chemists and Consultants

Analytical Standard Record

Standard ID: L002084

Printed: 3/2/2023 8:59:18AM

Description:	Dioxin ISC Mix	Expires:	24-Feb-2024
Standard Type:	Other	Prepared:	24-Feb-2023
Solvent:	Nonane	Prepared By:	Peter Kepler
Final Volume (mls):	1	Department:	HRGCMS
Vials:	1	Last Edit:	24-Feb-2023 11:19 by PK
Vendor:	NA	Lot #:	1234
Vendor Catalog #:			

Comments

Stock: H9902: 2378-TCDF, 3467-TCDF, 2348-TCDF, 1278-TCDD, 2378-TCDD. each @ 1000 ng/mL

10 ul to 1 mL FV in Nonane. Final Conc = 10 ng/mL. Analytes and units not available in Element.

Analyte	CAS Number	Concentration	Units
2,3,7,8-TCDF	51207-31-9	10	ug/mL
2,3,7,8-TCDD	1746-01-6	10	ug/mL

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 7471B

Total Metals

LDW23-SS1000

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0071-01 B	SDG:	23C0071
Sampled:	03/02/23 09:33	Prepared:	04/20/23 14:10	File ID:	SMM 04-21-23-035
% Solids:	43.84	Preparation:	SMM EPA 7471B	Analyzed:	04/21/23 13:50
Batch:	BLD0453	Sequence:	SLD0304	Initial/Final:	0.22 g Wet / 50 mL
Instrument:	HYDRA			Calibration:	GD00055

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7439-97-6	Mercury	0.227	1	0.0109	0.0518	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 7471B

Total Metals

LDW23-SS1037

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0071-02 B	SDG:	23C0071
Sampled:	03/02/23 09:56	Prepared:	04/20/23 14:10	File ID:	SMM 04-21-23-036
% Solids:	49.83	Preparation:	SMM EPA 7471B	Analyzed:	04/21/23 13:53
Batch:	BLD0453	Sequence:	SLD0304	Initial/Final:	0.273 g Wet / 50 mL
Instrument:	HYDRA			Calibration:	GD00055

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7439-97-6	Mercury	0.133	1	0.00772	0.0368	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 7471B

Total Metals

LDW23-SS1036

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0071-03 B	SDG:	23C0071
Sampled:	03/02/23 10:10	Prepared:	04/20/23 14:10	File ID:	SMM 04-21-23-037
% Solids:	47.90	Preparation:	SMM EPA 7471B	Analyzed:	04/21/23 13:55
Batch:	BLD0453	Sequence:	SLD0304	Initial/Final:	0.241 g Wet / 50 mL
Instrument:	HYDRA			Calibration:	GD00055

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7439-97-6	Mercury	0.200	1	0.00910	0.0433	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 7471B

Total Metals

LDW23-SS1044

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0071-04 B	SDG:	23C0071
Sampled:	03/02/23 10:22	Prepared:	04/20/23 14:10	File ID:	SMM 04-21-23-038
% Solids:	43.23	Preparation:	SMM EPA 7471B	Analyzed:	04/21/23 13:57
Batch:	BLD0453	Sequence:	SLD0304	Initial/Final:	0.281 g Wet / 50 mL
Instrument:	HYDRA			Calibration:	GD00055

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7439-97-6	Mercury	0.160	1	0.00864	0.0412	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 7471B

Total Metals

LDW23-SS1048

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0071-05 B	SDG:	23C0071
Sampled:	03/02/23 10:32	Prepared:	04/20/23 14:10	File ID:	SMM 04-21-23-039
% Solids:	49.02	Preparation:	SMM EPA 7471B	Analyzed:	04/21/23 14:00
Batch:	BLD0453	Sequence:	SLD0304	Initial/Final:	0.251 g Wet / 50 mL
Instrument:	HYDRA			Calibration:	GD00055

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7439-97-6	Mercury	0.148	1	0.00853	0.0406	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 7471B

Total Metals

LDW23-SS1054

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0071-06 B	SDG:	23C0071
Sampled:	03/02/23 10:41	Prepared:	04/20/23 14:10	File ID:	SMM 04-21-23-042
% Solids:	47.49	Preparation:	SMM EPA 7471B	Analyzed:	04/21/23 14:07
Batch:	BLD0453	Sequence:	SLD0304	Initial/Final:	0.217 g Wet / 50 mL
Instrument:	HYDRA			Calibration:	GD00055

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7439-97-6	Mercury	0.116	1	0.0102	0.0485	

PREPARATION BATCH SUMMARY

EPA 7471B

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Batch: BLD0453 Batch Matrix: Solid
Preparation: SMM EPA 7471B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW23-SS1000	23C0071-01	SMM 04-21-23-035	04/20/23 14:10	Store frozen; FROZEN VOLUME USED
LDW23-SS1037	23C0071-02	SMM 04-21-23-036	04/20/23 14:10	Store frozen; FROZEN VOLUME USED
LDW23-SS1036	23C0071-03	SMM 04-21-23-037	04/20/23 14:10	Store frozen; FROZEN VOLUME USED
LDW23-SS1044	23C0071-04	SMM 04-21-23-038	04/20/23 14:10	Store frozen; FROZEN VOLUME USED
LDW23-SS1048	23C0071-05	SMM 04-21-23-039	04/20/23 14:10	Store frozen; FROZEN VOLUME USED
LDW23-SS1054	23C0071-06	SMM 04-21-23-042	04/20/23 14:10	Store frozen; FROZEN VOLUME USED
Blank	BLD0453-BLK1	SMM 04-21-23-012	04/20/23 14:10	
LCS	BLD0453-BS1	SMM 04-21-23-013	04/20/23 14:10	

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Mercury Digestion Log

Prep Code: SMM | Balance ID: BAL10 | Matrix: SOIL
Analyst: AR | Block ID: 9 | Date: 04/20/23
Bath Temp: 97C | Start Time: 1315 | End Time: 1410

ARI Sample ID	Sample Bottle #	pH<2	Initial Weight (g) Volume (mL)	Final Volume (mL)	# $KMnO_4$ Aliquots	CLP	Comments
23A419-01	D		0.231	50	1		
-02			0.230				
-03			0.262				
-04			0.213				
-05			0.249				
-06			0.227				
-07			0.215				
-08			0.286				
-09			0.209				
-10			0.252				
-11			0.217				
-12			0.260				
23C71-01	B		0.220				
-02			0.273				
-03			0.241				
-04			0.281				
-05			0.251				
-06			0.217				
23C109-02			0.205				
-03	C		0.245				
BLD453-blk	—		—				23A419-01
-bs	—		—				
-dup	—		0.236				
-MS	—		0.236				
-MSD	—		0.232				

Chemical/Reagent ID:

HNO_3: L2678 | H_2SO_4: L922 | HCl: —
5% $K_2S_2O_8$: L3350 | 5% $KMnO_4$: K11727 | Digest Tube Lot: 221017

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Mercury Digestion Log

Prep Code: SMM | Balance ID: BAL10 | Matrix: Soil
Analyst: AR | Block ID: 9 | Date: 04/20/23
Bath Temp: 97C | Start Time: 1315 | End Time: 1410

ARI Sample ID	Sample Bottle #	pH<2	Initial Weight (g) Volume (mL)	Final Volume (mL)	# $KMnO_4$ Aliquots	CLP	Comments
23A419-01	D		0.231	50	1		
-02			0.230				
-03			0.262				
-04			0.213				
-05			0.249				
-06			0.227				
-07			0.215				
-08			0.286				
-09			0.209				
-10			0.252				
-11			0.217				
-12			0.260				
23C71-01	B		0.220				
-02			0.273				
-03			0.241				
-04			0.281				
-05			0.251				
-06			0.217				
23C109-02			0.205				
-03	C		0.245				
BLD453-blk	—		—				23A419-01
-DS	—		—				
-dup	—		0.236				
-MS	—		0.236				
-MSD	—		0.232				

Chemical/Reagent ID:

HNO_3: L2678 | H_2SO_4: L922 | HCl: —
5% $K_2S_2O_8$: L3350 | 5% $KMnO_4$: K1727 | Digest Tube Lot: 221017

Form I

METHOD BLANK DATA SHEET

EPA 7471B

Total Metals

Blank

Laboratory: Analytical Resources, LLC | SDG: 23C0071

Client: Anchor QEA, LLC | Project: AOC5 MR Phase 1

Batch: BLD0453 | Laboratory ID: BLD0453-BLK1 | Prepared: 04/20/23 14:10

Matrix: Solid | Preparation: SMM EPA 7471B | Analyzed: 04/21/23 11:35

Sequence: SLD0304 | Calibration: GD00055 | Instrument: HYDRA

CAS NO.	Analyte	Concentration (mg/kg wet)	Dilution Factor	MDL	MRL	Q
7439-97-6	Mercury	ND	1	0.00525	0.0250	U

LCS / LCS DUPLICATE RECOVERY

EPA 7471B

Total Metals

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Matrix:	Solid	Analyzed:	04/21/23 11:38
Batch:	BLD0453	Laboratory ID:	BLD0453-BS1
Preparation:	SMM EPA 7471B	Sequence Name:	LCS
Initial/Final:	0.2 g / 50 mL		

COMPOUND	SPIKE ADDED (mg/kg wet)	LCS CONCENTRATION (mg/kg wet)	Q	LCS % REC. #	QC LIMITS REC.
Mercury	0.500	0.437		87.5	80 - 120

* Indicates values outside of QC limits

INITIAL CALIBRATION DATA

EPA 7471B

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GD00055	Instrument:	HYDRA
Calibration Date:	04/21/2023 15:34		

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF
Mercury	0	0	0.0001	6770000	0.0005	6186000	0.001	6026000	0.002	6393000	0.005	6055400

INITIAL CALIBRATION DATA

EPA 7471B

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GD00055	Instrument:	HYDRA
Calibration Date:	04/21/2023 15:34		

COMPOUND	Mean RF	RF RSD	Linear COD	Quad COD	COD Limit	Q
Mercury	5238400	49.3	0.9995		0.99	

SMM 04-21-23 SLD0304 GD00055

Method: ARI 5 ppb (NO 0.05) Operator: Admin Date of Analysis: 21 Apr 2023 10:17:59

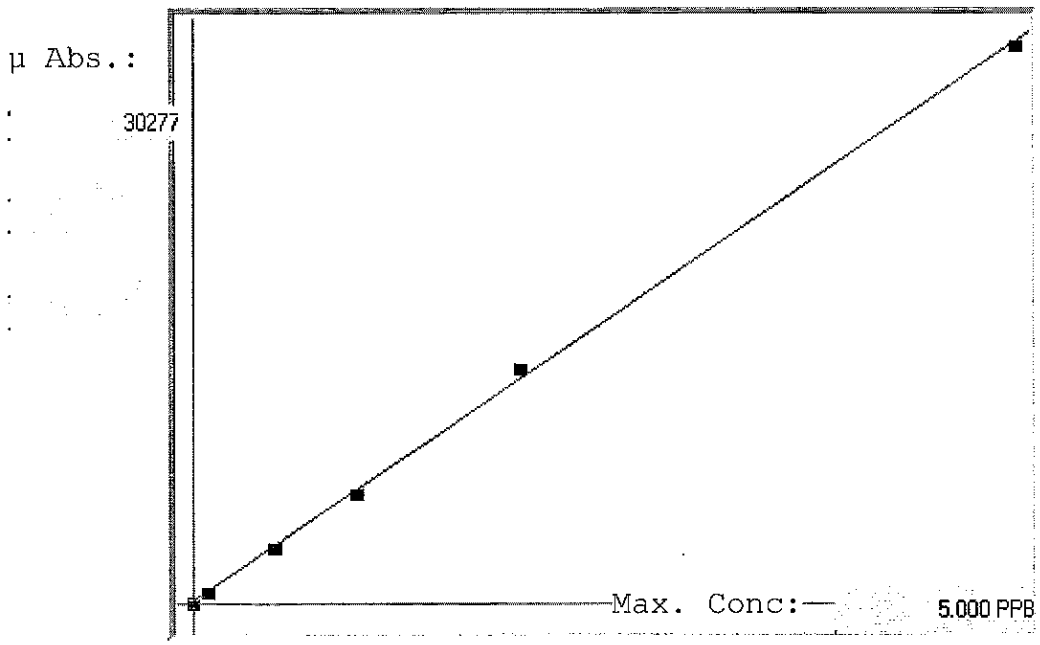
Sample ID	Mean	Units		Date	Method
SEQ-CAL1	52	PPB		21 Apr 2023 10:18:28	ARI 5 ppb (NO 0.05)
SEQ-CAL2	677	PPB		21 Apr 2023 10:20:50	ARI 5 ppb (NO 0.05)
SEQ-CAL3	3093	PPB		21 Apr 2023 10:23:12	ARI 5 ppb (NO 0.05)
SEQ-CAL4	6026	PPB		21 Apr 2023 10:25:32	ARI 5 ppb (NO 0.05)
SEQ-CAL5	12786	PPB		21 Apr 2023 10:27:53	ARI 5 ppb (NO 0.05)
SEQ-CAL6	30277	PPB		21 Apr 2023 10:30:12	ARI 5 ppb (NO 0.05)
SEQ-ICV	96.3% 3.8526	PPB	✓	21 Apr 2023 11:24:03	ARI 5 ppb (NO 0.05)
SEQ-ICB	-0.0204	PPB	✓	21 Apr 2023 11:26:21	ARI 5 ppb (NO 0.05)
SEQ-CRL	87.8% 0.0878	PPB	✓	21 Apr 2023 11:28:43	ARI 5 ppb (NO 0.05)
SEQ-CCV	97.4% 3.8947	PPB	✓	21 Apr 2023 11:31:04	ARI 5 ppb (NO 0.05)
SEQ-CCB	-0.0201	PPB	✓	21 Apr 2023 11:33:22	ARI 5 ppb (NO 0.05)
BLD0453-BLK1	-0.0117	PPB		21 Apr 2023 11:35:44	ARI 5 ppb (NO 0.05)
BLD0453-BS1	1.7499	PPB	✓	21 Apr 2023 11:38:03	ARI 5 ppb (NO 0.05)
SEQ-CCV	96.1% 3.8457	PPB	✓	21 Apr 2023 11:40:22	ARI 5 ppb (NO 0.05)
SEQ-CCB	-0.0216	PPB	✓	21 Apr 2023 11:42:40	ARI 5 ppb (NO 0.05)
SEQ-CCV	93.9% 3.7566	PPB	✓	21 Apr 2023 13:06:38	ARI 5 ppb (NO 0.05)
SEQ-CCB	-0.0191	PPB		21 Apr 2023 13:08:57	ARI 5 ppb (NO 0.05)
23A0419-01	0.0502	PPB		21 Apr 2023 13:11:19	ARI 5 ppb (NO 0.05)
BLD0453-DUP1	0.0479	PPB		21 Apr 2023 13:13:38	ARI 5 ppb (NO 0.05)
BLD0453-MS1	0.7932	PPB	X	21 Apr 2023 13:15:57	ARI 5 ppb (NO 0.05)
BLD0453-MSD1	0.8306	PPB	✓	21 Apr 2023 13:18:16	ARI 5 ppb (NO 0.05)
23A0419-02	0.2599	PPB		21 Apr 2023 13:20:36	ARI 5 ppb (NO 0.05)
23A0419-03	0.2184	PPB		21 Apr 2023 13:22:55	ARI 5 ppb (NO 0.05)
23A0419-04	0.0886	PPB		21 Apr 2023 13:25:14	ARI 5 ppb (NO 0.05)
23A0419-05	0.1289	PPB		21 Apr 2023 13:27:34	ARI 5 ppb (NO 0.05)
23A0419-06	0.0715	PPB		21 Apr 2023 13:29:54	ARI 5 ppb (NO 0.05)
23A0419-07	0.2057	PPB		21 Apr 2023 13:32:14	ARI 5 ppb (NO 0.05)
SEQ-CCV	93.8% 3.7518	PPB	✓	21 Apr 2023 13:34:34	ARI 5 ppb (NO 0.05)
SEQ-CCB	-0.0191	PPB	✓	21 Apr 2023 13:36:53	ARI 5 ppb (NO 0.05)
23A0419-08	0.1321	PPB		21 Apr 2023 13:39:14	ARI 5 ppb (NO 0.05)
23A0419-09	0.7933	PPB		21 Apr 2023 13:41:35	ARI 5 ppb (NO 0.05)
23A0419-10	0.1222	PPB		21 Apr 2023 13:43:57	ARI 5 ppb (NO 0.05)
23A0419-11	0.2446	PPB		21 Apr 2023 13:46:15	ARI 5 ppb (NO 0.05)
23A0419-12	0.3827	PPB		21 Apr 2023 13:48:34	ARI 5 ppb (NO 0.05)
23C0071-01	0.4371	PPB		21 Apr 2023 13:50:53	ARI 5 ppb (NO 0.05)
23C0071-02	0.3614	PPB		21 Apr 2023 13:53:12	ARI 5 ppb (NO 0.05)
23C0071-03	0.4621	PPB		21 Apr 2023 13:55:31	ARI 5 ppb (NO 0.05)
23C0071-04	0.3890	PPB		21 Apr 2023 13:57:50	ARI 5 ppb (NO 0.05)
23C0071-05	0.3645	PPB		21 Apr 2023 14:00:09	ARI 5 ppb (NO 0.05)
SEQ-CCV	96.6% 3.8653	PPB	✓	21 Apr 2023 14:02:30	ARI 5 ppb (NO 0.05)
SEQ-CCB	-0.0182	PPB	✓	21 Apr 2023 14:04:48	ARI 5 ppb (NO 0.05)
23C0071-06	0.2400	PPB		21 Apr 2023 14:07:11	ARI 5 ppb (NO 0.05)
23C0109-02	0.4256	PPB		21 Apr 2023 14:09:31	ARI 5 ppb (NO 0.05)
23C0109-03	0.3485	PPB		21 Apr 2023 14:11:51	ARI 5 ppb (NO 0.05)
BLD0453-PS1	1.0515	PPB		21 Apr 2023 14:14:12	ARI 5 ppb (NO 0.05)
BLD0469-BLK1	-0.0121	PPB		21 Apr 2023 14:16:33	ARI 5 ppb (NO 0.05)
BLD0469-BS1	1.6697	PPB	✓	21 Apr 2023 14:18:52	ARI 5 ppb (NO 0.05)
23D0274-01	-0.0036	PPB		21 Apr 2023 14:21:12	ARI 5 ppb (NO 0.05)
BLD0469-DUP1	0.0000	PPB		21 Apr 2023 14:23:31	ARI 5 ppb (NO 0.05)
BLD0469-MS1	0.8678	PPB	✓	21 Apr 2023 14:25:51	ARI 5 ppb (NO 0.05)
23D0095-01	0.0546	PPB		21 Apr 2023 14:28:10	ARI 5 ppb (NO 0.05)
SEQ-CCV	97.0% 3.8816	PPB	✓	21 Apr 2023 14:30:29	ARI 5 ppb (NO 0.05)
SEQ-CCB	-0.0169	PPB	✓	21 Apr 2023 14:32:48	ARI 5 ppb (NO 0.05)
23D0095-02	0.1498	PPB		21 Apr 2023 14:35:10	ARI 5 ppb (NO 0.05)
23D0104-01	0.1694	PPB		21 Apr 2023 14:37:30	ARI 5 ppb (NO 0.05)
23D0131-01	0.1511	PPB		21 Apr 2023 14:39:50	ARI 5 ppb (NO 0.05)
23D0131-02	0.1350	PPB		21 Apr 2023 14:42:10	ARI 5 ppb (NO 0.05)
23D0131-03	0.0081	PPB		21 Apr 2023 14:44:31	ARI 5 ppb (NO 0.05)
23D0303-03	0.0604	PPB		21 Apr 2023 14:46:51	ARI 5 ppb (NO 0.05)
23D0336-01	-0.0020	PPB		21 Apr 2023 14:49:13	ARI 5 ppb (NO 0.05)

SMM 04-21-23

Method: ARI 5 ppb (NO 0.05) Operator: Admin Date of Analysis: 21 Apr 2023 10:17:59

Sample ID	Mean	Units	Date	Method
SEQ-CCV	96.5% 3.8586	PPB ✓	21 Apr 2023 14:51:32	ARI 5 ppb (NO 0.05)
SEQ-CCB	-0.0181	PPB ✓	21 Apr 2023 14:53:51	ARI 5 ppb (NO 0.05)

ARI 5 ppb (NO 0.05)



Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
SEQ-CAL1 - Blank	0.000	-0.011	-0.011	52	2.160	54	53	49		
SEQ-CAL2 - 0.1 PPB	0.100	0.092	-0.008	676	0.9 %	685	671	674		
SEQ-CAL3 - 0.5 PPB	0.500	0.490	-0.010	3093	0.5 %	3071	3100	3108		
SEQ-CAL4 - 1.0 PPB	1.000	0.973	-0.027	6026	0.6 %	6062	6034	5982		
SEQ-CAL5 - 2.0 PPB	2.000	2.087	0.087	12786	0.2 %	12815	12789	12755		
SEQ-CAL6 - 5.0 PPB	5.000	4.970	-0.030	30277	0.7 %	30053	30241	30538		

Mercury Analysis Log

Analyst: ML
Instrument: HYDRA

Date: 04/21/23
Page: 1 of 3

ARI Sample ID		Prep Code	Dilution	QC Data (ppb)	Comments
SEQ	-cal1	SMM	1X		
	-cal2				
	-cal3				
	-cal4				
	-cal5				
	-cal6				
	-ICV			✓3.85	
	-ICB			✓-0.02	
	-CRL			✓0.087	
	-CCV			✓3.89	
↓	-CCB			✓-0.02	
BLD0453	-BIK1				
↓	-BS1			✓1.749	87.4 %R
SEQ	-CCV			✓3.84	
	-CCB			✓-0.02	
	-CCV			✓3.75	
↓	-CCB			✓-0.019	
23A0419	-01				
BLD0453	-DUP1				ND RPD
	-MS1			✗0.793	74.3 %R
↓	-MSD1			✓0.83	78 %R
23A0419	-02				
	-03				
	-04				
	-05				
	-06				
↓	-07				
SEQ	-CCV			✓3.75	
↓	-CCB			✓-0.019	
23A0419	-08				

Chemical/Reagent ID:
10% $SnCl_2$: L4336

14% NH_2OH/NaCl: L4337

Standard ID:
Standard: L4372-L4377

ICV/CCV: L4379

Mercury Analysis Log

Analyst: —

Instrument: —

Date: —

Page: 2 of 3

ARI Sample ID	Prep Code	Dilution	QC Data (ppb)	Comments
-09				
-10				
-11				
-12				
23C0071 -01				
-02				
-03				
-04				
-05				
SEQ -CCV			✓9.86	
-CCB			✓-0.018	
23C0071 -06				
23C0109 -02				
-03				
BLD0453 -PS1			✓1.051	100.1 %R
BLD0453 -BIK1				
-BS1			✓1.669	83.4 %R
23D0274 -01				
BLD0453 -DUP1				NO RPD
-MS1			✓0.867	87.1 %R
23D0095 -01				
SEQ -CCV				
-CCB				
23D0095 -02				
23D0104 -01				
23D0131 -01				
-02				
-03				
23D0303 -03				
23D0336 -01				

Chemical/Reagent ID:

10% $SnCl_2$: —

Standard ID:

Standard: —

14% NH_2OH/NaCl: —

ICV/CCV: —

5026F

Mercury Analysis Log

Analyst: — Date: —

Instrument: — Page: 3 of 3

ARI Sample ID	Prep Code	Dilution	QC Data (ppb)	Comments
STD -CCV			√ 3.85	
↓ -CCB			√ -0.018	

MM 04/21/23

Chemical/Reagent ID:

10% $SnCl_2$: — 14% NH_2OH/NaCl: —

Standard ID:

Standard: — ICV/CCV: —

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 7471B

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: HYDRA
Calibration: GD00055
Control Limt: +/- 20.00%
Sequence: SLD0304

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLD0304-ICV1	Mercury	0.0040000	0.00385	96.3	mg/L	EPA 7471B
SLD0304-CCV1	Mercury	0.0040000	0.00389	97.4	mg/L	EPA 7471B
SLD0304-CCV2	Mercury	0.0040000	0.00385	96.1	mg/L	EPA 7471B
SLD0304-CCV3	Mercury	0.0040000	0.00376	93.9	mg/L	EPA 7471B
SLD0304-CCV4	Mercury	0.0040000	0.00375	93.8	mg/L	EPA 7471B
SLD0304-CCV5	Mercury	0.0040000	0.00387	96.6	mg/L	EPA 7471B
SLD0304-CCV6	Mercury	0.0040000	0.00388	97.0	mg/L	EPA 7471B
SLD0304-CCV7	Mercury	0.0040000	0.00386	96.5	mg/L	EPA 7471B

* Values outside of QC limits

INSTRUMENT BLANKS
EPA 7471B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: HYDRA
Sequence: SLD0304

SDG: 23C0071
Project: AOC5 MR Phase 1
Calibration: GD00055
Date Analyzed: 04/21/23 11:26

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLD0304-ICB1	Mercury	-0.000020	0.000021	0.000100	mg/L	
SLD0304-CCB1	Mercury	-0.000020	0.000021	0.000100	mg/L	
SLD0304-CCB2	Mercury	-0.000022	0.000021	0.000100	mg/L	
SLD0304-CCB3	Mercury	-0.000019	0.000021	0.000100	mg/L	
SLD0304-CCB4	Mercury	-0.000019	0.000021	0.000100	mg/L	
SLD0304-CCB5	Mercury	-0.000018	0.000021	0.000100	mg/L	
SLD0304-CCB6	Mercury	-0.000017	0.000021	0.000100	mg/L	
SLD0304-CCB7	Mercury	-0.000018	0.000021	0.000100	mg/L	

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 7471B

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLD0304
Instrument: HYDRA
Calibration: GD00055

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Cal Standard	SLD0304-CAL1	SMM 04-21-23-001	NA	04/21/23 10:18
Cal Standard	SLD0304-CAL2	SMM 04-21-23-002	NA	04/21/23 10:20
Cal Standard	SLD0304-CAL3	SMM 04-21-23-003	NA	04/21/23 10:23
Cal Standard	SLD0304-CAL4	SMM 04-21-23-004	NA	04/21/23 10:25
Cal Standard	SLD0304-CAL5	SMM 04-21-23-005	NA	04/21/23 10:27
Cal Standard	SLD0304-CAL6	SMM 04-21-23-006	NA	04/21/23 10:30
Initial Cal Check	SLD0304-ICV1	SMM 04-21-23-007	NA	04/21/23 11:24
Initial Cal Blank	SLD0304-ICB1	SMM 04-21-23-008	NA	04/21/23 11:26
Instrument RL Check	SLD0304-CRL1	SMM 04-21-23-009	NA	04/21/23 11:28
Calibration Check	SLD0304-CCV1	SMM 04-21-23-010	NA	04/21/23 11:31
Calibration Blank	SLD0304-CCB1	SMM 04-21-23-011	NA	04/21/23 11:33
Blank	BLD0453-BLK1	SMM 04-21-23-012	Solid	04/21/23 11:35
LCS	BLD0453-BS1	SMM 04-21-23-013	Solid	04/21/23 11:38
Calibration Check	SLD0304-CCV2	SMM 04-21-23-014	NA	04/21/23 11:40
Calibration Blank	SLD0304-CCB2	SMM 04-21-23-015	NA	04/21/23 11:42
Calibration Check	SLD0304-CCV3	SMM 04-21-23-016	NA	04/21/23 13:06
Calibration Blank	SLD0304-CCB3	SMM 04-21-23-017	NA	04/21/23 13:08
Calibration Check	SLD0304-CCV4	SMM 04-21-23-028	NA	04/21/23 13:34
Calibration Blank	SLD0304-CCB4	SMM 04-21-23-029	NA	04/21/23 13:36
LDW23-SS1000	23C0071-01	SMM 04-21-23-035	Solid	04/21/23 13:50
LDW23-SS1037	23C0071-02	SMM 04-21-23-036	Solid	04/21/23 13:53
LDW23-SS1036	23C0071-03	SMM 04-21-23-037	Solid	04/21/23 13:55
LDW23-SS1044	23C0071-04	SMM 04-21-23-038	Solid	04/21/23 13:57
LDW23-SS1048	23C0071-05	SMM 04-21-23-039	Solid	04/21/23 14:00
Calibration Check	SLD0304-CCV5	SMM 04-21-23-040	NA	04/21/23 14:02
Calibration Blank	SLD0304-CCB5	SMM 04-21-23-041	NA	04/21/23 14:04
LDW23-SS1054	23C0071-06	SMM 04-21-23-042	Solid	04/21/23 14:07
Calibration Check	SLD0304-CCV6	SMM 04-21-23-052	NA	04/21/23 14:30
Calibration Blank	SLD0304-CCB6	SMM 04-21-23-053	NA	04/21/23 14:32

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 7471B

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLD0304	Instrument:	HYDRA
		Calibration:	GD00055

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Calibration Check	SLD0304-CCV7	SMM 04-21-23-061	NA	04/21/23 14:51
Calibration Blank	SLD0304-CCB7	SMM 04-21-23-062	NA	04/21/23 14:53

DETECTION LEVEL STANDARD
EPA 7471B

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: HYDRA
Calibration: GD00055
Sequence: SLD0304
Lab Sample ID: SLD0304-CRL1

Analyte	True	Found	%R	Units	QC Limts
Mercury	0.000100	0.000088	87.8	mg/L	70 - 130

* Values outside of QC limits

HOLDING TIME SUMMARY

Analysis: EPA 7471B

Laboratory: Analytical Resources, LLC SDG: 23C0071

Client: Anchor QEA, LLC Project: AOC5 MR Phase 1

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
LDW23-SS1000 23C0071-01	03/02/23 09:33	03/02/23 16:34	04/20/23 14:10	49	180	04/21/23 13:50	50	180	
LDW23-SS1037 23C0071-02	03/02/23 09:56	03/02/23 16:34	04/20/23 14:10	49	180	04/21/23 13:53	50	180	
LDW23-SS1036 23C0071-03	03/02/23 10:10	03/02/23 16:34	04/20/23 14:10	49	180	04/21/23 13:55	50	180	
LDW23-SS1044 23C0071-04	03/02/23 10:22	03/02/23 16:34	04/20/23 14:10	49	180	04/21/23 13:57	50	180	
LDW23-SS1048 23C0071-05	03/02/23 10:32	03/02/23 16:34	04/20/23 14:10	49	180	04/21/23 14:00	50	180	
LDW23-SS1054 23C0071-06	03/02/23 10:41	03/02/23 16:34	04/20/23 14:10	49	180	04/21/23 14:07	50	180	

* Indicates hold time exceedance.

METHOD DETECTION AND REPORTING LIMITS

EPA 7471B

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Matrix: Solid
Instrument: HYDRA

Analyte	MDL	RL	Units
Mercury	0.00525	0.0250	mg/kg

INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGHG1
Lot Number:	S2-HG711246
Matrix:	5% (v/v) HNO3
Value / Analyte(s):	1 000 µg/mL ea: Mercury
Starting Material:	Hg Metal
Starting Material Lot#:	1959
Starting Material Purity:	99.9993%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 1000 ± 3 µg/mL

Density: 1.026 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **1004 ± 6 µg/mL**
ICP Assay NIST SRM 3133 Lot Number: 160921

Assay Method #2 **998 ± 3 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **1001 ± 3 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000210	M	Eu	<	0.000210	O	Na		0.000626	M	Se	<	0.008100	M	Zn	<	0.000810
M	Al		0.000161	O	Fe	<	0.001600	M	Nb	<	0.000410	O	Si		0.000626	M	Zr	<	0.000410
M	As	<	0.002500	M	Ga	<	0.000210	M	Nd	<	0.000210	M	Sm	<	0.000210				
O	Au	<	0.001700	M	Gd	<	0.000210	O	Ni	<	0.001400	M	Sn	<	0.000410				
M	B	<	0.008500	M	Ge	<	0.000410	M	Os	<	0.003900	O	Sr	<	0.000110				
M	Ba	<	0.000210	M	Hf	<	0.000210	O	P	<	0.029000	M	Ta	<	0.000210				
O	Be	<	0.000110	s	Hg	<		M	Pb	<	0.000210	M	Tb	<	0.000210				
M	Bi	<	0.001100	M	Ho	<	0.000210	M	Pd	<	0.003500	M	Te	<	0.005700				
O	Ca		0.004754	M	In	<	0.000210	M	Pr	<	0.000210	M	Th	<	0.000210				
M	Cd	<	0.000210	M	Ir	<	0.000210	M	Pt	<	0.000210	O	Ti	<	0.000430				
M	Ce	<	0.000210	O	K		0.000731	M	Rb	<	0.000210	O	Tl	<	0.005400				
M	Co	<	0.000210	M	La	<	0.000210	M	Re	<	0.000210	M	Tm	<	0.000210				
O	Cr	<	0.003300	O	Li	<	0.000110	M	Rh	<	0.001100	M	U	<	0.000410				
M	Cs	<	0.000410	M	Lu	<	0.000210	M	Ru	<	0.000810	M	V	<	0.000210				
M	Cu	<	0.000810	O	Mg		0.000104	O	S	<	0.022000	M	W	<	0.001100				
M	Dy	<	0.000210	O	Mn	<	0.000430	M	Sb	<	0.000210	M	Y	<	0.000210				
M	Er	<	0.000210	M	Mo	<	0.000210	M	Sc	<	0.000210	M	Yb	<	0.000210				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 200.59 +2 4 Hg(OH)(aq) 1+
Chemical Compatibility - Stable in HNO3. Avoid basic media forming insoluble carbonate. The sulfide, basic carbonate, oxalate, phosphate, arsenite, arsenate and iodide are insoluble in water.
Stability - 2-100 ppb levels not stable in 1% HNO3 / LDPE container, stable in 10% HNO3 packaged in borosilicate glass. 1-100 ppm levels stable in 7% HNO3 packaged in borosilicate glass. 1000-10,000 ppm solutions are chemically stable for years in 5-10% HNO3 / LDPE container.
Hg Containing Samples (Preparation and Solution) - Metal (soluble in HNO3); Oxide (Soluble in HNO3); Ores and Organic based (The literature has more references to the preparation of Hg containing samples than any other element. Please consult the literature for your specific sample type, since such preparations are prone to error. Or e-mail our technical staff and we will contact you to discuss your particular sample preparation questions in further detail.).
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 202 amu	9 ppt	n/a	186W16O
ICP-OES 184.950 nm	0.03 / 0.005 µg/mL	1	
ICP-OES 194.227 nm	0.03 / 0.005 µg/mL	1	V
ICP-OES 253.652 nm	0.1 / 0.03 µg/mL	1	Ta, Co, Th ,Rh , Fe, U

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

November 18, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **November 18, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Supervisor, Product Documentation

Certificate Approved By:

Michael Booth
Director, Technical

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	QCP-QCS-4
Lot Number:	R2-MEB695951
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	5 µg/mL ea: Mercury

Second Source: Whenever possible, this solution was manufactured from a second set of concentrates in our manufacturing facility.

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Mercury, Hg	**5.011 ± 0.023 µg/mL**		

Density: 1.035 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Hg	ICP Assay	3133	061204
Hg	EDTA	928	928
Hg	Calculated		See Sec. 4.2

The follow ing equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

August 20, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **August 20, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
SM 2540 G-97

LDW23-SS1000

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0071-01 D	SDG:	23C0071
Sampled:	03/02/23 09:33	Prepared:	03/09/23 10:26	File ID:	
% Solids:	43.84	Preparation:	No Prep Wet Chem	Analyzed:	03/09/23 10:28
Batch:	BLC0224	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	43.84	1	0.04	0.04	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
SM 2540 G-97

LDW23-SS1037

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0071-02 D	SDG:	23C0071
Sampled:	03/02/23 09:56	Prepared:	03/09/23 10:26	File ID:	
% Solids:	49.83	Preparation:	No Prep Wet Chem	Analyzed:	03/09/23 10:28
Batch:	BLC0224	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	49.83	1	0.04	0.04	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
SM 2540 G-97

LDW23-SS1036

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0071-03 D	SDG:	23C0071
Sampled:	03/02/23 10:10	Prepared:	03/09/23 10:26	File ID:	
% Solids:	47.90	Preparation:	No Prep Wet Chem	Analyzed:	03/09/23 10:28
Batch:	BLC0224	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	47.90	1	0.04	0.04	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
SM 2540 G-97

LDW23-SS1044

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0071-04 D	SDG:	23C0071
Sampled:	03/02/23 10:22	Prepared:	03/09/23 10:26	File ID:	
% Solids:	43.23	Preparation:	No Prep Wet Chem	Analyzed:	03/09/23 10:28
Batch:	BLC0224	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	43.23	1	0.04	0.04	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
SM 2540 G-97

LDW23-SS1048

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0071-05 D	SDG:	23C0071
Sampled:	03/02/23 10:32	Prepared:	03/09/23 10:26	File ID:	
% Solids:	49.02	Preparation:	No Prep Wet Chem	Analyzed:	03/09/23 10:28
Batch:	BLC0224	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	49.02	1	0.04	0.04	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
SM 2540 G-97

LDW23-SS1054

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0071-06 D	SDG:	23C0071
Sampled:	03/02/23 10:41	Prepared:	03/09/23 10:26	File ID:	
% Solids:	47.49	Preparation:	No Prep Wet Chem	Analyzed:	03/09/23 10:28
Batch:	BLC0224	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	47.49	1	0.04	0.04	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
SM 2540 G-97

LDW23-SC1054

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0071-08 C	SDG:	23C0071
Sampled:	03/02/23 11:56	Prepared:	03/09/23 10:26	File ID:	
% Solids:	55.95	Preparation:	No Prep Wet Chem	Analyzed:	03/09/23 10:28
Batch:	BLC0224	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	55.95	1	0.04	0.04	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
SM 2540 G-97

LDW23-SC1048

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0071-09 C	SDG:	23C0071
Sampled:	03/02/23 12:27	Prepared:	03/09/23 10:26	File ID:	
% Solids:	52.43	Preparation:	No Prep Wet Chem	Analyzed:	03/09/23 10:28
Batch:	BLC0224	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	52.43	1	0.04	0.04	

Form I
INORGANIC ANALYSIS DATA SHEET
SM 2540 G-97

LDW23-SC1036

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0071-10 C	SDG:	23C0071
Sampled:	03/02/23 14:09	Prepared:	03/09/23 10:26	File ID:	
% Solids:	59.05	Preparation:	No Prep Wet Chem	Analyzed:	03/09/23 10:28
Batch:	BLC0224	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	59.05	1	0.04	0.04	

PREPARATION BATCH SUMMARY

SM 2540 G-97

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Batch: BLC0224 Batch Matrix: Solid
Preparation: No Prep Wet Chem

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW23-SS1000	23C0071-01		03/09/23 10:26	
LDW23-SS1037	23C0071-02		03/09/23 10:26	
LDW23-SS1036	23C0071-03		03/09/23 10:26	
LDW23-SS1044	23C0071-04		03/09/23 10:26	
LDW23-SS1048	23C0071-05		03/09/23 10:26	
LDW23-SS1054	23C0071-06		03/09/23 10:26	
LDW23-SC1054	23C0071-08		03/09/23 10:26	
LDW23-SC1048	23C0071-09		03/09/23 10:26	
LDW23-SC1036	23C0071-10		03/09/23 10:26	
Blank	BLC0224-BLK1		03/09/23 10:26	
LDW23-SS1000	BLC0224-DUP1		03/09/23 10:26	
LDW23-SS1000	BLC0224-DUP2		03/09/23 10:26	

TOTAL SOLIDS/VOLATILE SOLIDS (TS / TVS) BENCHSHEET for Solid samples

Method: PSEP 1986, SM2540, EPA 160.1

(dry at 104 (12-24 hr) then combust at 550 (30 min))

Batch:	BLC0224
Date:	3/9/2023 10:28
Analyst:	UW

Instrumentation

Drying Ovens:	12	**Analytical Balance:**	BAL2
Muffle Furnace:	2		

Batch drying time

record times as mm/dd/yy hh:mm

date/time in oven:	3/9/2023 11:05	
date/time out:	3/10/2023 13:35	
elapsed hrs =	26.5	> 24 hr

TS (%) calculated as:
Final dry wt (g) = (Dry Wt - Tare Wt)
TS = (Final Dry Wt)/ (grams Sample-Tare)

Oven Temps, °C	
Start Temp	106
Dry Cycle 1	105
Dry Cycle 2	
Dry Cycle 3	

TVS (mg/kg dry wt) calculated as:
Final ash wt (g) = (min ash wt - tare wt)
TVS (mg/kg) = [(Dry wt-Ash wt)/ (dry weight)] *1,000,000
if ash wt > dry wt, "Chk for Err"
if dry wt-ash wt < 0.001 g, "< (1/dry wt)*1,000,000

Balance Calibration Check

Record weights to 4 places

Cal Weight ID:	CV-02	CV-02	CV-02	CV-02	CV-02		CV-02	CV-02	CV-02	
Date & Time:	3/9/23 10:30	3/9/23 10:40	3/10/23 14:10							
Cal Wt (g): 10.0000	10.0000	10.0000	9.9999							
	Cal OK!	Cal OK!	Cal OK!							

Sample ID	Dish #	Tare Wt. (g)	Dish & Sample (g)	Dry Wt 104C (grams) 1	2	3	dry Wt (g)	TS (%)	Notes	ASH WT 550C (grams) 1	2	3	Ash Wt (g)	TVS (mg/kg)	TVS (%)	Notes
BLC0224-BLK1	20	0.8311	0.0000	0.8309			-0.0002	0.02%								
23C0061-01	21	0.8144	8.6404	7.1543			6.3399	81.01%								
23C0071-01	22	0.8186	6.8121	3.4464			2.6278	43.84%								
BLC0224-DUP1	23	0.8176	7.2617	3.6383			2.8207	43.77%	RPD=0.2							
BLC0224-DUP2	24	0.8430	6.2316	3.2090			2.3660	43.91%	RSD=0.2							
23C0071-02	25	0.8067	7.4452	4.1146			3.3079	49.83%								
23C0071-03	26	0.8182	8.2009	4.3545			3.5363	47.90%								
23C0071-04	27	0.7826	8.8119	4.2534			3.4708	43.23%								
23C0071-05	28	0.7956	7.6034	4.1325			3.3369	49.02%								
23C0071-06	29	0.8049	6.3114	3.4197			2.6148	47.49%								
23C0071-08	30	0.7924	6.0927	3.7577			2.9653	55.95%								
23C0071-09	31	0.7968	6.9724	4.0347			3.2379	52.43%								
23C0071-10	32	0.7779	8.8184	5.5255			4.7476	59.05%								
23C0127-01	33	0.8148	5.4431	2.0113			1.1965	25.85%								
23C0142-01	34	0.8205	8.3750	6.7765			5.9560	78.84%								
23C0142-02	35	0.8359	8.2336	6.7575			5.9216	80.05%								

Form I

METHOD BLANK DATA SHEET

SM 2540 G-97

TotalAnalytes

Blank

Laboratory: Analytical Resources, LLC | SDG: 23C0071

Client: Anchor QEA, LLC | Project: AOC5 MR Phase 1

Batch: BLC0224 | Laboratory ID: BLC0224-BLK1 | Prepared: 03/09/23 10:26

Matrix: Solid | Preparation: No Prep Wet Chem | Analyzed: 03/09/23 10:28

Sequence: | Calibration: | Instrument: BAL2

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	ND	1	0.04	0.04	U

DUPLICATES

SM 2540 G-97

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Matrix: Solid
Laboratory ID: BLC0224-DUP1
Batch: BLC0224
Lab Source ID: 23C0071-01
Preparation: No Prep Wet Chem
Initial/Final: 5 g / 5 g
Source Sample Name: LDW23-SS1000
% Solids: 43.84

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION	DUPLICATE CONCENTRATION	RPD %	Q
Total Solids	20	43.84	43.77	0.165	

*: Values outside of QC limits
L: Analyte concentration is <=5 times the reporting limit and the replicate control limit defaults to Dup = +/- RL instead of 20% RPD

DUPLICATES

SM 2540 G-97

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Matrix: Solid
Laboratory ID: BLC0224-DUP2
Batch: BLC0224
Lab Source ID: 23C0071-01
Preparation: No Prep Wet Chem
Initial/Final: 5 g / 5 g
Source Sample Name: LDW23-SS1000
% Solids: 43.84

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION	DUPLICATE CONCENTRATION	RPD %	Q
Total Solids	20	43.84	43.91	0.144	

*: Values outside of QC limits
L: Analyte concentration is <=5 times the reporting limit and the replicate control limit defaults to Dup = +/- RL instead of 20% RPD

HOLDING TIME SUMMARY

Analysis: SM 2540 G-97

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
LDW23-SS1000 23C0071-01	03/02/23 09:33	03/02/23 16:34	03/09/23 10:26	7	180	03/09/23 10:28	7	180	
LDW23-SS1037 23C0071-02	03/02/23 09:56	03/02/23 16:34	03/09/23 10:26	7	180	03/09/23 10:28	7	180	
LDW23-SS1036 23C0071-03	03/02/23 10:10	03/02/23 16:34	03/09/23 10:26	7	180	03/09/23 10:28	7	180	
LDW23-SS1044 23C0071-04	03/02/23 10:22	03/02/23 16:34	03/09/23 10:26	7	180	03/09/23 10:28	7	180	
LDW23-SS1048 23C0071-05	03/02/23 10:32	03/02/23 16:34	03/09/23 10:26	6	180	03/09/23 10:28	7	180	
LDW23-SS1054 23C0071-06	03/02/23 10:41	03/02/23 16:34	03/09/23 10:26	6	180	03/09/23 10:28	7	180	
LDW23-SC1054 23C0071-08	03/02/23 11:56	03/02/23 16:34	03/09/23 10:26	6	180	03/09/23 10:28	7	180	
LDW23-SC1048 23C0071-09	03/02/23 12:27	03/02/23 16:34	03/09/23 10:26	6	180	03/09/23 10:28	7	180	
LDW23-SC1036 23C0071-10	03/02/23 14:09	03/02/23 16:34	03/09/23 10:26	6	180	03/09/23 10:28	7	180	
Duplicate BLC0224-DUP1	03/02/23 09:33	03/02/23 16:34	03/09/23 10:26	7	180	03/09/23 10:28	7	180	
Duplicate BLC0224-DUP2	03/02/23 09:33	03/02/23 16:34	03/09/23 10:26	7	180	03/09/23 10:28	7	180	

* Indicates hold time exceedance.

METHOD DETECTION AND REPORTING LIMITS

SM 2540 G-97

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Matrix: Solid
Instrument:

Analyte	MDL	RL	Units
Total Solids	0.04	0.04	%

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Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 6020B

Total Metals

LDW23-SS1000

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0071-01 B	SDG:	23C0071
Sampled:	03/02/23 09:33	Prepared:	04/19/23 12:43	File ID:	XDT_m1230510A-095
% Solids:	43.84	Preparation:	SWN EPA 3050B	Analyzed:	05/10/23 23:33
Batch:	BLD0452	Sequence:	SLE0204	Initial/Final:	1.088 g Wet / 50 mL
Instrument:	ICPMS1			Calibration:	GE00040

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7440-47-3	Chromium	30.9	20	0.55	1.05	
7439-92-1	Lead	31.4	20	0.11	0.21	
7440-22-4	Silver	0.35	20	0.05	0.42	J

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Form I
INORGANIC ANALYSIS DATA SHEET
EPA 6020B

Total Metals

LDW23-SS1037

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0071-02 B	SDG:	23C0071
Sampled:	03/02/23 09:56	Prepared:	04/19/23 12:43	File ID:	XDT_m1230510A-096
% Solids:	49.83	Preparation:	SWN EPA 3050B	Analyzed:	05/10/23 23:37
Batch:	BLD0452	Sequence:	SLE0204	Initial/Final:	1.003 g Wet / 50 mL
Instrument:	ICPMS1			Calibration:	GE00040

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7440-47-3	Chromium	27.2	20	0.52	1.00	
7439-92-1	Lead	21.9	20	0.10	0.20	
7440-22-4	Silver	0.22	20	0.04	0.40	J

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Form I
INORGANIC ANALYSIS DATA SHEET
EPA 6020B

Total Metals

LDW23-SS1036

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0071-03 B	SDG:	23C0071
Sampled:	03/02/23 10:10	Prepared:	04/19/23 12:43	File ID:	XDT_m1230511-123
% Solids:	47.90	Preparation:	SWN EPA 3050B	Analyzed:	05/11/23 22:27
Batch:	BLD0452	Sequence:	SLE0209	Initial/Final:	1.032 g Wet / 50 mL
Instrument:	ICPMS1			Calibration:	GE00042

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7440-47-3	Chromium	28.9	20	0.53	1.01	
7439-92-1	Lead	27.8	20	0.11	0.20	
7440-22-4	Silver	0.30	20	0.04	0.40	J

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Form I
INORGANIC ANALYSIS DATA SHEET
EPA 6020B

Total Metals

LDW23-SS1044

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0071-04 B	SDG:	23C0071
Sampled:	03/02/23 10:22	Prepared:	04/19/23 12:43	File ID:	XDT_m1230510A-098
% Solids:	43.23	Preparation:	SWN EPA 3050B	Analyzed:	05/10/23 23:46
Batch:	BLD0452	Sequence:	SLE0204	Initial/Final:	1.037 g Wet / 50 mL
Instrument:	ICPMS1			Calibration:	GE00040

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7440-47-3	Chromium	31.8	20	0.58	1.12	
7439-92-1	Lead	30.5	20	0.12	0.22	
7440-22-4	Silver	0.30	20	0.05	0.45	J

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Form I
INORGANIC ANALYSIS DATA SHEET
EPA 6020B

Total Metals

LDW23-SS1048

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0071-05 B	SDG:	23C0071
Sampled:	03/02/23 10:32	Prepared:	04/19/23 12:43	File ID:	XDT_m1230510A-099
% Solids:	49.02	Preparation:	SWN EPA 3050B	Analyzed:	05/10/23 23:50
Batch:	BLD0452	Sequence:	SLE0204	Initial/Final:	1.049 g Wet / 50 mL
Instrument:	ICPMS1			Calibration:	GE00040

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7440-47-3	Chromium	27.2	20	0.51	0.97	
7439-92-1	Lead	27.9	20	0.10	0.19	
7440-22-4	Silver	0.27	20	0.04	0.39	J

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Form I
INORGANIC ANALYSIS DATA SHEET
EPA 6020B

Total Metals

LDW23-SS1054

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0071-06 B	SDG:	23C0071
Sampled:	03/02/23 10:41	Prepared:	04/19/23 12:43	File ID:	XDT_m1230510A-100
% Solids:	47.49	Preparation:	SWN EPA 3050B	Analyzed:	05/10/23 23:55
Batch:	BLD0452	Sequence:	SLE0204	Initial/Final:	1.075 g Wet / 50 mL
Instrument:	ICPMS1			Calibration:	GE00040

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7440-47-3	Chromium	26.6	20	0.51	0.98	
7439-92-1	Lead	39.0	20	0.10	0.20	
7440-22-4	Silver	0.26	20	0.04	0.39	J

PREPARATION BATCH SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Batch: BLD0452 Batch Matrix: Solid
Preparation: SWN EPA 3050B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW23-SS1000	23C0071-01	XDT_m1230510A-095	04/19/23 12:43	
LDW23-SS1037	23C0071-02	XDT_m1230510A-096	04/19/23 12:43	
LDW23-SS1036	23C0071-03	XDT_m1230511-123	04/19/23 12:43	
LDW23-SS1044	23C0071-04	XDT_m1230510A-098	04/19/23 12:43	
LDW23-SS1048	23C0071-05	XDT_m1230510A-099	04/19/23 12:43	
LDW23-SS1054	23C0071-06	XDT_m1230510A-100	04/19/23 12:43	
Blank	BLD0452-BLK1	XDT_m1230501-162	04/19/23 12:52	
LCS	BLD0452-BS1	XDT_m1230501-163	04/19/23 12:52	

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Digestion Log

4/18/23 4/19/23

Analyst: AR Date: 4/18/23- Time: 1543 - 1252 Balance ID: BAL10

Matrix: Soil Block ID: 16 Block Temp: 93°C Thermometer: 20-4

ARI Sample ID	Btl #	pH<2	Prep Code: SWN Initial Wt (g) Vol (mL)	Prep Code: SWN Final Vol (mL)	Prep Code: Initial Wt (g) Vol (mL)	Prep Code: Final Vol (mL)	Comments
23A419-01	D		1.041	50			
-02			1.013				
-03			1.046				
-04			1.009				
-05			1.060				
-06			1.087				
-07			1.069				
-08			1.050				
-09			1.013				
-10			1.046				
-11			1.038				
-12			1.034				
23C71-01	B		1.088				
-02			1.003				
-03			1.032				
-04			1.037				
-05			1.049				
-06			1.075				
23C109-02			1.077				
-03	C		1.049				
BLD452-blk	—		—				23A419-01
-bs	—		—				
-dup	—		1.045				
-MS	—		1.045				
-MSD	—		1.041				
—	—	—	—	—	—	—	—

Chemical/Reagent ID:

HNO_3: L26078 1:1 HNO_3: L33605 HCl: — H_2O_2: K1105L6

Tube Lot#: 2210117 Boiling Chip Lot#: — (DoD Only)

Form I

METHOD BLANK DATA SHEET

EPA 6020B

Total Metals

Blank

Laboratory: Analytical Resources, LLC | SDG: 23C0071

Client: Anchor QEA, LLC | Project: AOC5 MR Phase 1

Batch: BLD0452 | Laboratory ID: BLD0452-BLK1 | Prepared: 04/19/23 12:52

Matrix: Solid | Preparation: SWN EPA 3050B | Analyzed: 05/02/23 04:20

Sequence: SLE0017 | Calibration: GE00007 | Instrument: ICPMS1

CAS NO.	Analyte	Concentration (mg/kg wet)	Dilution Factor	MDL	MRL	Q
7440-47-3	Chromium-52	ND	20	0.26	0.50	U
7439-92-1	Lead-208	ND	20	0.05	0.10	U
7440-22-4	Silver-107	ND	20	0.02	0.20	U

LCS / LCS DUPLICATE RECOVERY

EPA 6020B

Total Metals

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Matrix:	Solid	Analyzed:	05/02/23 04:25
Batch:	BLD0452	Laboratory ID:	BLD0452-BS1
Preparation:	SWN EPA 3050B	Sequence Name:	LCS
Initial/Final:	1 g / 50 mL		

COMPOUND	SPIKE ADDED (mg/kg wet)	LCS CONCENTRATION (mg/kg wet)	Q	LCS % REC. #	QC LIMITS REC.
Chromium-52	25.0	24.2		96.7	80 - 120
Lead-208	25.0	27.8		111	80 - 120
Silver-107	25.0	26.4		106	80 - 120

* Indicates values outside of QC limits

INITIAL CALIBRATION DATA

EPA 6020B

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GE00042	Instrument:	ICPMS1
Calibration Date:	05/11/2023 13:56		

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF
Silver-107	0	0	0.2	14605	10	14850.5	20	14243.6	50	13620.14	100	13175.56
Chromium-52	0	0	0.5	31826	10	14601.9	20	13940.65	50	12586.68	100	12285.63
Chromium-53	0	0	0.5	1730	10	1565.3	20	1561.7	50	1453.62	100	1404.46
Lead-208	0	0	0.1	90790	10	90159.3	20	88189.75	50	84692.68	100	81042.75

INITIAL CALIBRATION DATA

EPA 6020B

Laboratory: Analytical Resources, LLC
Instrument: ICPMS1
Calibration: GE00042
Calibration Date: 5/11/2023

COMPOUND	Mean RF	RF RSD	Linear COD	Quad COD	COD Limit	Q
Silver-107	11749.13	49.3	0.9995		0.998	
Chromium-52	14206.81	71.7	0.9995		0.998	
Chromium-53	1285.847	49.8	0.9994		0.998	
Lead-208	72479.08	49.2	0.9993		0.998	

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 85DN5032601

Analysis Date: 5/11/23 **Analyst:** MB **Sequence:** SLEΦ2Φ9 **Cal:** GEΦΦΦ42

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ-CAL1	L5316		
		-CAL2	L5225		
		-CAL3	L5226		
		-CAL4	L5227		In-1 sl. noisy - %R ΦAnalytes OK
		-CAL5	L5317		
		-CAL6	L5229		
		-IBL1	—		
		-ICV1	L3575		
		-ICB1	L5316		
	✓	-CAL1	—		
	✓	-CAL1	—		
	✓	-CCV1	—		Std Mode Sl. noisy
		-CCV1	L5317		
		-CCB1	L5316		
		-CRL1	L5225		
		-IFA1	L5318		Cr^{53} ↑
		-IFB1	L5319		
		-MCV1	L4780		
		-MCV2	L4781		
		-IBL2	—		(Cd↑/Cd noisy)
		-IBL3	—		
		-CCV2			
		-CCB2			
	✓	-CAL1			

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 85DN5032601

Analysis Date: 5/11/23 **Analyst:** MB **Sequence:** _____ **Cal:** _____

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ-CCV3			
		↓ -CCB3			
		BLEΦΦ72-BS2	SWN	20	Ag, Cr, Pb only
		BLEΦ342-BLK1	REN		
		↓ -BS1	↓		
	✓	BS TEST OLD SPIKE			TEST ONLY
	✓	↓ NEW SPIKE			↓
		23EΦ271-Φ1		5	
		23EΦ239-Φ1	↓	2	
		SEQ-IBL4			
		23DΦΦ74-13	REN	100	Mn only
		SEQ-IBL5			
		↓ -CCV4			
		↓ -CCB4			
		23DΦ477-Φ4	REN		Pb only
		↓ -Φ8	↓		↓
		-1Φ			
		-12			
		-18			
		↓ -2Φ		2	
		BLEΦ1Φ6-DUP2		↓	
		↓ -MS2			
		↓ -MSD2	↓	↓	↓
		SEQ-IBL6			TUBE Empty

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 85DN5032601

Analysis Date: 5/11/23 **Analyst:** MB **Sequence:** — **Cal:** —

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ-CCV5			
		↓ -CCB5			
		230Φ477-Φ1	REN	5	Pb only
		↓ -Φ7	↓	↓	↓
		↓ -Φ9	↓	↓	↓
		230Φ48Φ-Φ1	↓	↓	↓
		SEQ-IBL7			
		230Φ477-Φ2	REN	2	Pb only
		↓ -Φ3	↓	↓	↓
		↓ -Φ6	↓	↓	↓
		↓ -11	↓	↓	↓
		SEQ-IBL8			
		↓ -CCV6			
		↓ -CCB6			
		230Φ477-13	REN	2	Pb only
		↓ -14	↓	↓	↓
		↓ -16	↓	↓	
		↓ -15	↓	10	↓
		SEQ-IBL9			
		230Φ7Φ2-Φ4	REN		
		BLEΦ342-DUP1	↓		
		↓ -MS1	↓		
		↓ -MSD1	↓		
		SEQ-IBLA			

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 85DN5032601

Analysis Date: 5/11/23 **Analyst:** MB **Sequence:** _____ **Cal:** _____

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ-CCV7			
		-CCB7			
	✓	-CAL1			
		-CCV8			
		-CCB8			
	✓	23DΦ171-Φ1	REN	20	SCT Mn only
		-Φ2			
		-1Φ		↓	
		-11		100	
		-12		↓	
	↓	-ΦC0	↓	50	↓ ↓
		SEQ-IBLB			
		-CCV9			SCT
		-CCB9			
	✓	-CAL1			
		-CCVA			
		-CCBA			
		23DΦ636-Φ1	REN	10	Ba, Pb only
		BLEΦ298-DUP2			
		-MS2			
		-MSD2			
		SEQ-IBLC			
		23DΦ568-Φ8	SWN	20	Cr NR
		BLEΦ143-DUP1	↓	↓	As, Pb RPD↑ ↓

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 85DN5032601

Analysis Date: 5/11/23 **Analyst:** MB **Sequence:** — **Cal:** —

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		BLEΦ143-MS1	SWN	20	Pb %R↓ Cr NR
		↓ -MS01	↓	↓	Se↑/As %R↓/ω STL ↓
		SEQ-IBLD			(Ge noisy)
		-CCVB			
		-CCBB			
		23DΦ568-Φ2	SWN	20	
		-Φ3			Pb↑ Pb NR
		-Φ4			
		-Φ5			
		-Φ6			
		-Φ7			Sc, Tb↑ Cr, Pb NR
		SEQ-IBLE			
	✓	BLEΦ143-MS01	SWN	20	Se, Tb↑
		SEQ-IBLF			
		-CCVC			
		-CCBC			
	✓	-CAL1			Ba, Mn, N. Removed
		-CCVD			
		-CCBD			
		23AΦ467-Φ3	SWN	20	Ag, Cr, Pb only
		23CΦΦ71-Φ3			↓
		230ΦΦΦ8-Φ1			
		230Φ136-Φ1			
		↓ -Φ3	↓	↓	

Analytical Resources, Incorporated
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ICP/MS - 01 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 85DN5032601

Analysis Date: 5/11/23 **Analyst:** MB **Sequence:** — **Cal:** —

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		230Φ396-Φ1	SWN	20	
		↓ -Φ3	↓	↓	
		230Φ394-Φ2	↓	↓	
		↓ -Φ4	↓	↓	
		SEQ-IBLG			
		↓ -CCVE			
		↓ -CCBE			
		230Φ394-Φ6	SWN	20	
		-Φ7	↓	↓	
		-Φ8	↓	↓	
		-11	↓	↓	Zn↑/Cd noisy — No Cd, Zn
		-12	↓	↓	
		↓ -13	↓	↓	
		230Φ393-24	↓	↓	
		↓ -28	↓	↓	
		↓ -29	↓	↓	
		SEQ-IBLH			
		↓ -CCVF			
		↓ -CCBF			
		230Φ393-1Φ	SWN	20	
		-11	↓	↓	
		-12	↓	↓	In-1st.noisy-%R/Ge noisy + Analytes OK — No As, Cu, Zn
		-15	↓	↓	
		↓ -16	↓	↓	

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 85DN5032601

Analysis Date: 5/14/23 **Analyst:** MB **Sequence:** — **Cal:** —

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		230Φ393-17	SWN	20	
		-18	↓	↓	
		-19	↓	↓	
		-22	↓	↓	Cu↑ No Cu
		SEQ-IBL1			
		-CCVG			
		-CCBG			
		230Φ393-Φ4RE1	SWN	2000	Cu, Zn only
		BLEΦΦ72-DUP3	↓	↓	↓
		-MS3	↓	↓	Cu, Zn STL
		-MSD3	↓	↓	↓
		230Φ393-Φ4	↓	200	Cu, Zn↑ Ag, As, Cd, Pb only / Cu, Zn NR
		BLEΦΦ72-DUP2	↓	↓	↓
		-MS2	↓	↓	Ag %R↓ / As, Pb STL
		-MSD2	↓	↓	↓
		-PS2	↓	↓	50 mL IK7409
		SEQ-IBL3			
		-CCVH			
		-CCBH			
		230Φ568-Φ3RE1	SWN	200	Pb only
		230Φ568-Φ7RE1	↓	50	Cr, Pb only
		-Φ8RE1	↓	↓	Cr only
		BLEΦ143-DUP2	↓	↓	↓
		-MS2	↓	↓	↓

Analytical Resources, Incorporated
Analytical Chemists and Consultants

ICP/MS - 01 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 85DN5032601

Analysis Date: 5/11/23 **Analyst:** MB **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted. MB 5/11/23

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		BLE0143-MSD2	SWN	50	Cr only
		SEQ-IBLK			
	✓	230D393-02	SWN	200	Re-run @ 20x
	✓	↓ -03	↓	↓	↓
		SEQ-IBLL			
		-CCVI			
		-CCBI			
	✓	-CAL1			
		-CCVJ			
		-CCBJ			
		230D393-05	SWN	200	Zn↑ - Not Needed ~~No Zn~~
		-06			
	✓	-08			Re-run @ 20x
		SEQ-IBLM			
		230D412-02	REN		
		-03			
		-04			
		-05			
		-06			
		SEQ-IBLN			
		-CCVK			
		-CCBK			
		230D412-07	REN		
		↓ -08	↓		

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 85DN5032601

Analysis Date: 5/11/23 **Analyst:** MB **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		230Φ412-Φ9	REN		
		-10			
		-11			
		-12			
		-13			
		-14			
		-15			
		SEQ-IBLO			
		-CCVL			
		-CCBL			
		230Φ442-Φ3	REN		Sc↑ - Not Needed
		-Φ4			
	✓	-Φ5			Sc↑ - Not Needed / Ge noisy
		-Φ6			↓ ↓
	✓	230Φ598-Φ4			Sc, Ge, In, In-1, Tb ↓
		-Φ6			Ge, In-1, In, Tb ↓ Cr only
		-Φ8			Sc↑ No Cr
		-10			↓ ↓
		-12			
		SEQ-IBLP			(Cr53↑)
		-CCVM			
		-CCBM			
		230Φ514-Φ2	REN		Sc↑ - Not Needed
		↓ -Φ3	↓		↓ ↓

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 85DN5032601

Analysis Date: 5/11/23 **Analyst:** MB **Sequence:** _____ **Cal:** _____

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		230Φ514-Φ4	REN		ScT - Not Needed
		↓ -Φ6	↓		
		SEQ-IBLQ			
	✓	230Φ598-Φ2	REN		Int. STDs↓
		BLEΦ119-DLP1			
		-MS1			
		-MSD1			
		SEQ-IBLR			(Sc, GeT / Cr53T)
		-CCVN			Cr↓
		-CCBN			
	✓	-CAL1			
		-CCVO			Cr↓
		-CCBO			
		230Φ537-Φ2	REN	2	
		-Φ3		↓	
		-Φ4			ScT - Not Needed
		230Φ494-Φ1			
		-Φ2			
		-Φ3			ScT - Not Needed
		-Φ4			
		-Φ5			
		-Φ6			
		SEQ-IBLS			
		↓ -CCVP			Cr↓ / P6T

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 85DN5032601

Analysis Date: 5/11/23 **Analyst:** MB **Sequence:** — **Cal:** —

All corrections made by analyst unless otherwise noted. MB 5/14/23

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ-CCBP			
		230Φ494-Φ7	REN		
	✓	-Φ8			As noisy
		-Φ9			
		-1Φ			
		-11			
		230Φ578-Φ2		25	As only
		BLEΦ134-OUP1		↓	↓
		-MS1			
	✓	-MSD1	↓	↓	Ge noisy
		SEQ-IBLT			
		-CCVQ			
		-CCBQ			
		230Φ588-Φ1	REN		
		-Φ3			
		-Φ5			
		-Φ7			
		-Φ9			
		-11			
		-13			
		-15			
		230Φ587-Φ3	↓		
		SEQ-IBLU			
		-CCVR			

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 85DN5032601

Analysis Date: 5/11/23 **Analyst:** MB **Sequence:** ~~~~ **Cal:** ~~~~

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ-CCBR			
		230ϕ587-ϕ2	REN	2	
		-ϕ4		5	
		-ϕ5		↓	
		230ϕ578-ϕ7			
		-ϕ8		↓	
		-ϕ4		2	
		-ϕ6		↓	
		-ϕ3			
		-ϕ5	↓		
		SEQ-IBLV			
		-CCVS			
		-CCBS			
		Rinse/DF			
			MB 5/11/23		

Performance Check Report

Sample ID: STD Performance Check
Sample Date/Time: Thursday, May 11, 2023 12:49:24
Sample Description:
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\STD Performance Check.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Default\STD Performance Check.159
MassCal File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Conditions File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Dual Detector Mode: Pulse
Acq. Dead Time (ns): 35
Current Dead Time (ns): 35
Torch Z position (mm): 0.00

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD	Mode
	Be	9.0	6461.2	6461.194	108.647	1.7	Standard
	In	114.9	67625.0	67624.969	851.616	1.3	Standard
	U	238.1	94250.1	94250.125	1957.526	2.1	Standard
⎡	CeO	155.9	1249.3	0.013	0.000	1.9	Standard
⎢>	Ce	139.9	93503.0	93502.957	927.845	1.0	Standard
⎣	Ce++	70.0	612.9	0.007	0.000	6.9	Standard
	Bkgd	220.0	1.7	1.667	0.264	15.8	Standard

Current Conditions File Data

Current Value	Description
0.92	Nebulizer Gas Flow STD/KED [NEB]
1.20	Auxiliary Gas Flow
17.50	Plasma Gas Flow
-10.75	Deflector Voltage
1600.00	ICP RF Power
-1600.00	Analog Stage Voltage
1000.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset STD [QRO]
-10.00	Cell Rod Offset STD [CRO]
14.00	Discriminator Threshold
-5.00	Cell Entrance/Exit Voltage STD
0.00	RPa
0.45	RPq
0.92	DRC Mode NEB
-7.50	DRC Mode QRO
-2.00	DRC Mode CRO
-5.00	DRC Mode Cell Entrance/Exit Voltage
0.60	Cell Gas A
0.00	Cell Gas B
200.00	Axial Field Voltage
-11.00	KED Mode CRO
-12.00	KED Mode QRO
-11.00	KED Mode Cell Entrance Voltage
-33.00	KED Mode Cell Exit Voltage
0.00	KED Cell Gas A
3.00	KED Cell Gas B
0.00	KED RPa
0.25	KED RPq
125.00	KED Mode Axial Field Voltage

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDailyUCT.swz

Start Time: 5/11/2023 12:49:13 PM
End Time: 5/11/2023 12:54:25 PM

STD Performance Check - [Passed] Optimum value(s): N/A
Obtained Intensity (Be 9): 6461.19
Obtained Intensity (In 115): 67624.97
Obtained Intensity (U 238): 94250.13
Obtained Intensity (Bkgd 220): 1.67
Obtained Formula (Ce++ 70 / Ce 140): 0.007 (=612.88 / 93502.96)
Obtained Formula (CeO 156 / Ce 140): 0.013 (=1249.32 / 93502.96)
Obtained RSD (Be 9): 0.0168
Obtained RSD (In 115): 0.0126
Obtained RSD (U 238): 0.0208

Torch Alignment - [Passed]

Vertical	Horizontal	Intensity
1.14 mm	1.04 mm	76323.34

Nebulizer Gas Flow STD/KED [NEB] - [Passed] Optimum value(s): 0.93
Obtained Intensity (In 115): 79740.93
Obtained Formula (CeO 156 / Ce 140): 0.0170 (=1741.11 / 102470.19)

Mass Calibration and Resolution - [Passed] Optimum value(s): N/A
Target/Obtained mass (7.016/7.025), Target/Obtained resolution (0.7/0.713)
Target/Obtained mass (23.985/23.975), Target/Obtained resolution (0.7/0.675)
Target/Obtained mass (114.904/114.925), Target/Obtained resolution (0.7/0.680)
Target/Obtained mass (238.05/238.025), Target/Obtained resolution (0.7/0.703)

SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDailyUCT.swz

Optimization Status

Start Time: 5/11/2023 12:49:13 PM

STD Performance Check
	Optimization Settings:
		Method: STD Performance Check.mth.
		Intensity Criterion: Be 9 > 2000
		Intensity Criterion: In 115 > 40000
		Intensity Criterion: U 238 > 30000
		Intensity Criterion: Bkgd 220 <= 5
		Formula Criterion: Ce++ 70 / Ce 140 <= 0.03
		Formula Criterion: CeO 156 / Ce 140 <= 0.025
		RSD Criterion: Be 9.0122 < 0.05
		RSD Criterion: In 114.904 < 0.05
		RSD Criterion: U 238.05 < 0.05

	Optimization Results:
	Initial Try
		Obtained Intensity (Be 9): 6461.19
		Obtained Intensity (In 115): 67624.97
		Obtained Intensity (U 238): 94250.13
		Obtained Intensity (Bkgd 220): 1.67
		Obtained Formula (Ce++ 70 / Ce 140): 0.007 (=612.88 / 93502.96)
		Obtained Formula (CeO 156 / Ce 140): 0.013 (=1249.32 / 93502.96)
		Obtained RSD (Be 9): 0.0168
		Obtained RSD (In 115): 0.0126
		Obtained RSD (U 238): 0.0208

[Passed] Optimum value(s): N/A

Torch Alignment
	Optimization Settings:
		Method: Torch Alignment.mth.
		Intensity Criterion: In 115 Maximum

	Optimization Results:
		Vertical	Horizontal	Intensity
[Passed]	1.14 mm	1.04 mm	76323.34

Nebulizer Gas Flow STD/KED [NEB]
	Optimization Settings:
		Method: Optimize.mth.
			Initial Try - Start/End/Step: 0.91/0.93/0.01.
		Intensity Criterion: In 115 Maximum
		Formula Criterion: CeO 156 / Ce 140 <= 0.025

	Optimization Results:
	Initial Try

		Obtained Intensity (In 115): 79740.93
		Obtained Formula (CeO 156 / Ce 140): 0.0170 (=1741.11 / 102470.19)
[Passed] Optimum value(s): 0.93

Mass Calibration and Resolution
Optimization Settings:
Method: Tuning.mth.
MassCal File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Iterations: 6
Target accuracy (+/- amu): 0.05 for Mass Cal. and 0.03 for Resolution
Peak height (%) for Res. Opt.: 10

Optimization Results:
Initial Try
Target/Obtained mass (7.016/7.025), Target/Obtained resolution (0.7/0.713)
Target/Obtained mass (23.985/23.975), Target/Obtained resolution (0.7/0.675)
Target/Obtained mass (114.904/114.925), Target/Obtained resolution (0.7/0.680)
Target/Obtained mass (238.05/238.025), Target/Obtained resolution (0.7/0.703)
[Passed] Optimum value(s): N/A

End Time: 5/11/2023 12:54:25 PM

Performance Check Report

Sample ID: STD Performance Check
Sample Date/Time: Thursday, May 11, 2023 12:59:23
Sample Description:
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\STD Performance Check.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Default\STD Performance Check.167
MassCal File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Conditions File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Dual Detector Mode: Pulse
Acq. Dead Time (ns): 35
Current Dead Time (ns): 35
Torch Z position (mm): 0.00

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD	Mode
	Be	9.0	7408.7	7408.655	153.896	2.1	Standard
	In	114.9	77950.1	77950.141	1370.420	1.8	Standard
	U	238.1	111916.6	111916.599	2616.965	2.3	Standard
⌈	CeO	155.9	1830.2	0.018	0.001	3.8	Standard
| >	Ce	139.9	104042.3	104042.336	1986.057	1.9	Standard
⌊	Ce++	70.0	670.5	0.006	0.000	3.2	Standard
	Bkgd	220.0	1.6	1.633	0.701	42.9	Standard

Current Conditions File Data

Current Value	Description
0.93	Nebulizer Gas Flow STD/KED [NEB]
1.20	Auxiliary Gas Flow
17.50	Plasma Gas Flow
-10.75	Deflector Voltage
1600.00	ICP RF Power
-1600.00	Analog Stage Voltage
1000.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset STD [QRO]
-10.00	Cell Rod Offset STD [CRO]
14.00	Discriminator Threshold
-5.00	Cell Entrance/Exit Voltage STD
0.00	RPa
0.45	RPq
0.93	DRC Mode NEB
-7.50	DRC Mode QRO
-2.00	DRC Mode CRO
-5.00	DRC Mode Cell Entrance/Exit Voltage
0.60	Cell Gas A
0.00	Cell Gas B
200.00	Axial Field Voltage
-11.00	KED Mode CRO
-12.00	KED Mode QRO
-11.00	KED Mode Cell Entrance Voltage
-33.00	KED Mode Cell Exit Voltage
0.00	KED Cell Gas A
3.00	KED Cell Gas B
0.00	KED RPa
0.25	KED RPq
125.00	KED Mode Axial Field Voltage

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDailyUCT.swz

Start Time: 5/11/2023 12:54:40 PM
End Time: 5/11/2023 1:01:27 PM

Nebulizer Gas Flow STD/KED [NEB] - [Passed] Optimum value(s): 0.93
Obtained Intensity (In 115): 84178.28
Obtained Formula (CeO 156 / Ce 140): 0.0181 (=1892.13 / 104805.04)

Mass Calibration and Resolution - [Passed] Optimum value(s): N/A
Target/Obtained mass (7.016/7.025), Target/Obtained resolution (0.7/0.707)
Target/Obtained mass (23.985/23.975), Target/Obtained resolution (0.7/0.687)
Target/Obtained mass (114.904/114.875), Target/Obtained resolution (0.7/0.692)
Target/Obtained mass (238.05/238.025), Target/Obtained resolution (0.7/0.694)

QID STD/DRC - Optimum value(s): Correlation Coefficient = 0.997; Intercept = -15.68

KED Mode QID - Optimum value(s): Correlation Coefficient = 0.996; Intercept = -14.78

STD Performance Check - [Passed] Optimum value(s): N/A
Obtained Intensity (Be 9): 7408.65
Obtained Intensity (In 115): 77950.14
Obtained Intensity (U 238): 111916.60
Obtained Intensity (Bkgd 220): 1.63
Obtained Formula (Ce++ 70 / Ce 140): 0.006 (=670.55 / 104042.34)
Obtained Formula (CeO 156 / Ce 140): 0.018 (=1830.18 / 104042.34)
Obtained RSD (Be 9): 0.0208
Obtained RSD (In 115): 0.0176
Obtained RSD (U 238): 0.0234

SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDailyUCT.swz

Optimization Status

Start Time: 5/11/2023 12:54:40 PM

Nebulizer Gas Flow STD/KED [NEB]
	Optimization Settings:
		Method: Optimize.mth.
			Initial Try - Start/End/Step: 0.93/0.96/0.01.
		Intensity Criterion: In 115 Maximum
		Formula Criterion: CeO 156 / Ce 140 <= 0.025

	Optimization Results:
	Initial Try

		Obtained Intensity (In 115): 84178.28
		Obtained Formula (CeO 156 / Ce 140): 0.0181 (=1892.13 / 104805.04)
[Passed] Optimum value(s): 0.93

Mass Calibration and Resolution
	Optimization Settings:
		Method: Tuning.mth.
		MassCal File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
		Iterations: 6
		Target accuracy (+/- amu): 0.05 for Mass Cal. and 0.03 for Resolution
		Peak height (%) for Res. Opt.: 10

	Optimization Results:
	Initial Try
		Target/Obtained mass (7.016/7.025), Target/Obtained resolution (0.7/0.707)
		Target/Obtained mass (23.985/23.975), Target/Obtained resolution (0.7/0.687)
		Target/Obtained mass (114.904/114.875), Target/Obtained resolution (0.7/0.692)
		Target/Obtained mass (238.05/238.025), Target/Obtained resolution (0.7/0.694)
[Passed] Optimum value(s): N/A

QID STD/DRC
	Optimization Settings:
		Method: QID Calibration.mth.
			Initial Try - Start/End/Step: -20/0/0.5.

	Optimization Results:
	Initial Try

  Optimum value(s): Correlation Coefficient = 0.997; Intercept = -15.68

	Analyte	Mass	Points	DAC	MaxIntensity

		Li	7	41	-16	50196
		Mg	24	41	-16.5	36699.1
		In	115	41	-13	81861.9
		Ce	140	41	-12.5	103929
		Pb	208	41	-11.5	62620.9
		U	238	41	-11.5	115279

KED Mode QID

Optimization Settings:
Method: QID Calibration.mth.
Initial Try - Start/End/Step: -20/0/0.5.

Optimization Results:
Initial Try

Optimum value(s): Correlation Coefficient = 0.996; Intercept = -14.78

Analyte	Mass	Points	DAC	MaxIntensity
Li	7	41	-15	35371.7
Mg	24	41	-15	56081.9
In	115	41	-12.5	122297
Ce	140	41	-11.5	105528
Pb	208	41	-11	58326.8
U	238	41	-10.5	137434

STD Performance Check
Optimization Settings:
Method: STD Performance Check.mth.
Intensity Criterion: Be 9 > 2000
Intensity Criterion: In 115 > 40000
Intensity Criterion: U 238 > 30000
Intensity Criterion: Bkgd 220 <= 5
Formula Criterion: Ce++ 70 / Ce 140 <= 0.03
Formula Criterion: CeO 156 / Ce 140 <= 0.025
RSD Criterion: Be 9.0122 < 0.05
RSD Criterion: In 114.904 < 0.05
RSD Criterion: U 238.05 < 0.05

Optimization Results:
Initial Try
Obtained Intensity (Be 9): 7408.65
Obtained Intensity (In 115): 77950.14
Obtained Intensity (U 238): 111916.60
Obtained Intensity (Bkgd 220): 1.63
Obtained Formula (Ce++ 70 / Ce 140): 0.006 (=670.55 / 104042.34)
Obtained Formula (CeO 156 / Ce 140): 0.018 (=1830.18 / 104042.34)
Obtained RSD (Be 9): 0.0208
Obtained RSD (In 115): 0.0176
Obtained RSD (U 238): 0.0234

[Passed] Optimum value(s): N/A

End Time: 5/11/2023 1:01:27 PM

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 13:56:25
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				29450	1	Standard
	Cl	**37**		ug/L				2929441	2	Standard
>	**Sc**	**45**		ug/L				500966	2	Standard
	Cr	**52**		ug/L				9079	1	Standard
	Cr	**53**		ug/L				93	12	Standard
	Mn	**55**		ug/L				264	2	Standard
>	**Ge**	**72**		ug/L				31052	2	KED
	Ni	**60**		ug/L				26	31	KED
	Ni	**62**		ug/L				6	62	KED
	Cu	**63**		ug/L				43	5	KED
	Cu	**65**		ug/L				30	21	KED
	Zn	**66**		ug/L				36	31	KED
	Zn	**67**		ug/L				6	31	KED
	As	**75**		ug/L				3	18	KED
	Y	**89**		ug/L				40261	2	Standard
	Kr	**83**		ug/L				50	4	Standard
>	**In-1**	**115**		ug/L				6674	2	KED
	Cd	**111**		ug/L				2	115	KED
	Cd	**114**		ug/L				3	72	KED
>	**In**	**115**		ug/L				458892	1	Standard
	Ag	**107**		ug/L				13	24	Standard
	Ba	**135**		ug/L				43	11	Standard
	Ba	**137**		ug/L				78	10	Standard
>	**Tb**	**159**		ug/L				181387	1	Standard
	Pb	**208**		ug/L				323	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL2
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 14:00:57
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			29450	31832	4	Standard
	Cl	**37**		ug/L			2929441	2839755	4	Standard
⌈>	**Sc**	**45**		ug/L			500966	496983	3	Standard
|	**Cr**	**52**	**0.500**	ug/L	0.014	2	9079	15913	2	Standard
|	**Cr**	**53**	**0.500**	ug/L	0.035	6	93	865	3	Standard
⌊	**Mn**	**55**	**0.500**	ug/L	0.011	2	264	9923	5	Standard
⌈>	**Ge**	**72**		ug/L			31052	31441	1	KED
|	**Ni**	**60**	**0.500**	ug/L	0.026	5	26	775	5	KED
|	**Ni**	**62**	**0.500**	ug/L	0.077	15	6	130	13	KED
|	**Cu**	**63**	**0.500**	ug/L	0.006	1	43	2353	0	KED
|	**Cu**	**65**	**0.500**	ug/L	0.019	3	30	1191	4	KED
|	**Zn**	**66**	**6.000**	ug/L	0.188	3	36	3261	4	KED
|	**Zn**	**67**	**6.000**	ug/L	0.586	9	6	482	8	KED
⌊	**As**	**75**	**0.200**	ug/L	0.018	8	3	52	9	KED
	Y	**89**		ug/L			40261	40194	3	Standard
	Kr	**83**		ug/L			50	41	23	Standard
⌈>	**In-1**	**115**		ug/L			6674	6464	1	KED
|	**Cd**	**111**	**0.100**	ug/L	0.023	22	2	21	18	KED
⌊	**Cd**	**114**	**0.100**	ug/L	0.011	10	3	65	9	KED
⌈>	**In**	**115**		ug/L			458892	444022	3	Standard
|	**Ag**	**107**	**0.200**	ug/L	0.003	1	13	2921	2	Standard
|	**Ba**	**135**	**0.500**	ug/L	0.038	7	43	2729	4	Standard
⌊	**Ba**	**137**	**0.500**	ug/L	0.011	2	78	4854	3	Standard
⌈>	**Tb**	**159**		ug/L			181387	179115	3	Standard
⌊	**Pb**	**208**	**0.100**	ug/L	0.003	3	323	9079	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL3
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 14:05:29
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			29450	38615	2	Standard
	Cl	**37**		ug/L			2929441	2965976	5	Standard
⌈>	**Sc**	**45**		ug/L			500966	492932	2	Standard
|	**Cr**	**52**	**10.000**	ug/L	0.241	2	9079	146019	1	Standard
|	**Cr**	**53**	**10.000**	ug/L	0.340	3	93	15653	2	Standard
⌊	**Mn**	**55**	**10.001**	ug/L	0.292	2	264	199231	2	Standard
⌈>	**Ge**	**72**		ug/L			31052	30729	2	KED
|	**Ni**	**60**	**10.001**	ug/L	0.207	2	26	15213	1	KED
|	**Ni**	**62**	**10.000**	ug/L	0.242	2	6	2455	1	KED
|	**Cu**	**63**	**10.000**	ug/L	0.230	2	43	44916	3	KED
|	**Cu**	**65**	**9.999**	ug/L	0.275	2	30	22153	0	KED
|	**Zn**	**66**	**10.082**	ug/L	0.165	1	36	5453	1	KED
|	**Zn**	**67**	**10.273**	ug/L	0.327	3	6	867	2	KED
⌊	**As**	**75**	**10.000**	ug/L	0.240	2	3	2547	0	KED
	Y	**89**		ug/L			40261	41417	3	Standard
	Kr	**83**		ug/L			50	38	27	Standard
⌈>	**In-1**	**115**		ug/L			6674	6340	1	KED
|	**Cd**	**111**	**10.000**	ug/L	0.152	1	2	2394	2	KED
⌊	**Cd**	**114**	**10.000**	ug/L	0.216	2	3	6112	2	KED
⌈>	**In**	**115**		ug/L			458892	456528	2	Standard
|	**Ag**	**107**	**10.000**	ug/L	0.035	0	13	148505	2	Standard
|	**Ba**	**135**	**10.000**	ug/L	0.120	1	43	55666	1	Standard
⌊	**Ba**	**137**	**10.000**	ug/L	0.049	0	78	97151	2	Standard
⌈>	**Tb**	**159**		ug/L			181387	182174	3	Standard
⌊	**Pb**	**208**	**10.000**	ug/L	0.225	2	323	901593	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL4
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 14:10:15
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			29450	37598	5	Standard
	Cl	**37**		ug/L			2929441	3016985	5	Standard
⌈>	**Sc**	**45**		ug/L			500966	495356	3	Standard
|	**Cr**	**52**	**19.915**	ug/L	0.230	1	9079	278813	3	Standard
|	**Cr**	**53**	**19.982**	ug/L	0.307	1	93	31234	2	Standard
⌊	**Mn**	**55**	**19.853**	ug/L	0.270	1	264	385814	2	Standard
⌈>	**Ge**	**72**		ug/L			31052	31142	1	KED
|	**Ni**	**60**	**19.875**	ug/L	0.193	0	26	29873	1	KED
|	**Ni**	**62**	**19.829**	ug/L	0.427	2	6	4767	2	KED
|	**Cu**	**63**	**19.810**	ug/L	0.617	3	43	86810	1	KED
|	**Cu**	**65**	**19.924**	ug/L	0.406	2	30	44058	2	KED
|	**Zn**	**66**	**19.808**	ug/L	0.324	1	36	10528	1	KED
|	**Zn**	**67**	**20.108**	ug/L	0.353	1	6	1742	0	KED
⌊	**As**	**75**	**19.858**	ug/L	0.037	0	3	4985	1	KED
	Y	**89**		ug/L			40261	40956	0	Standard
	Kr	**83**		ug/L			50	36	10	Standard
⌈>	**In-1**	**115**		ug/L			6674	6162	6	KED
|	**Cd**	**111**	**19.961**	ug/L	1.156	5	2	4594	0	KED
⌊	**Cd**	**114**	**19.948**	ug/L	1.052	5	3	11699	1	KED
⌈>	**In**	**115**		ug/L			458892	442261	2	Standard
|	**Ag**	**107**	**19.961**	ug/L	0.488	2	13	284872	2	Standard
|	**Ba**	**135**	**19.961**	ug/L	0.460	2	43	106756	1	Standard
⌊	**Ba**	**137**	**20.053**	ug/L	0.424	2	78	190616	0	Standard
⌈>	**Tb**	**159**		ug/L			181387	182067	1	Standard
⌊	**Pb**	**208**	**19.912**	ug/L	0.188	0	323	1763795	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL5
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 14:15:10
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			29450	27882	6	Standard
	Cl	**37**		ug/L			2929441	3034849	2	Standard
⌈>	**Sc**	**45**		ug/L			500966	458587	1	Standard
|	**Cr**	**52**	**49.922**	ug/L	1.876	3	9079	629334	1	Standard
|	**Cr**	**53**	**50.053**	ug/L	0.603	1	93	72681	0	Standard
⌊	**Mn**	**55**	**49.996**	ug/L	0.842	1	264	898883	1	Standard
⌈>	**Ge**	**72**		ug/L			31052	29579	0	KED
|	**Ni**	**60**	**49.802**	ug/L	0.895	1	26	69689	2	KED
|	**Ni**	**62**	**49.780**	ug/L	1.236	2	6	11116	3	KED
|	**Cu**	**63**	**49.652**	ug/L	0.326	0	43	199706	1	KED
|	**Cu**	**65**	**49.521**	ug/L	0.703	1	30	99217	1	KED
|	**Zn**	**66**	**49.752**	ug/L	0.177	0	36	24501	0	KED
|	**Zn**	**67**	**49.966**	ug/L	1.333	2	6	4090	1	KED
⌊	**As**	**75**	**49.927**	ug/L	0.338	0	3	11813	0	KED
	Y	**89**		ug/L			40261	39593	0	Standard
	Kr	**83**		ug/L			50	45	19	Standard
⌈>	**In-1**	**115**		ug/L			6674	6012	0	KED
|	**Cd**	**111**	**49.812**	ug/L	0.438	0	2	11006	1	KED
⌊	**Cd**	**114**	**49.795**	ug/L	0.668	1	3	27985	0	KED
⌈>	**In**	**115**		ug/L			458892	422438	0	Standard
|	**Ag**	**107**	**49.993**	ug/L	1.404	2	13	681007	2	Standard
|	**Ba**	**135**	**49.990**	ug/L	0.567	1	43	255103	0	Standard
⌊	**Ba**	**137**	**49.864**	ug/L	1.049	2	78	446649	1	Standard
⌈>	**Tb**	**159**		ug/L			181387	174003	0	Standard
⌊	**Pb**	**208**	**50.004**	ug/L	0.350	0	323	4234634	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL6
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 14:21:46
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			29450	34721	5	Standard
	Cl	**37**		ug/L			2929441	3166160	3	Standard
⌈>	**Sc**	**45**		ug/L			500966	449933	0	Standard
|	**Cr**	**52**	**99.986**	ug/L	2.146	2	9079	1228563	2	Standard
|	**Cr**	**53**	**99.676**	ug/L	2.337	2	93	140446	3	Standard
⌊	**Mn**	**55**	**100.252**	ug/L	0.264	0	264	1783305	0	Standard
⌈>	**Ge**	**72**		ug/L			31052	28460	0	KED
|	**Ni**	**60**	**100.032**	ug/L	0.974	0	26	134792	1	KED
|	**Ni**	**62**	**99.699**	ug/L	0.385	0	6	21199	0	KED
|	**Cu**	**63**	**99.310**	ug/L	1.347	1	43	375622	0	KED
|	**Cu**	**65**	**99.902**	ug/L	1.609	1	30	191910	0	KED
|	**Zn**	**66**	**99.787**	ug/L	2.048	2	36	46918	1	KED
|	**Zn**	**67**	**99.193**	ug/L	0.682	0	6	7606	0	KED
⌊	**As**	**75**	**100.196**	ug/L	1.478	1	3	22957	0	KED
	Y	**89**		ug/L			40261	38715	1	Standard
	Kr	**83**		ug/L			50	53	10	Standard
⌈>	**In-1**	**115**		ug/L			6674	5881	2	KED
|	**Cd**	**111**	**99.523**	ug/L	0.347	0	2	21169	2	KED
⌊	**Cd**	**114**	**99.612**	ug/L	1.244	1	3	54050	1	KED
⌈>	**In**	**115**		ug/L			458892	403500	0	Standard
|	**Ag**	**107**	**100.284**	ug/L	0.965	0	13	1317556	1	Standard
|	**Ba**	**135**	**100.098**	ug/L	1.034	1	43	489484	0	Standard
⌊	**Ba**	**137**	**100.577**	ug/L	1.052	1	78	877436	1	Standard
⌈>	**Tb**	**159**		ug/L			181387	168275	2	Standard
⌊	**Pb**	**208**	**99.769**	ug/L	2.754	2	323	8104275	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 14:29:03
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			29450	27815	3	Standard
	Cl	**37**		ug/L			2929441	2895451	4	Standard
⌈>	**Sc**	**45**		ug/L			500966	437362	3	Standard
|	**Cr**	**52**	**0.041**	ug/L	0.030	72	9079	8419	7	Standard
|	**Cr**	**53**	**0.006**	ug/L	0.037	599	93	91	59	Standard
⌊	**Mn**	**55**	**0.029**	ug/L	0.051	179	264	743	124	Standard
⌈>	**Ge**	**72**		ug/L			31052	28653	0	KED
|	**Ni**	**60**	**0.002**	ug/L	0.010	401	26	27	47	KED
|	**Ni**	**62**	**0.005**	ug/L	0.005	97	6	6	15	KED
|	**Cu**	**63**	**0.002**	ug/L	0.004	188	43	48	34	KED
|	**Cu**	**65**	**-0.004**	ug/L	0.002	37	30	20	14	KED
|	**Zn**	**66**	**-0.016**	ug/L	0.023	147	36	26	41	KED
|	**Zn**	**67**	**-0.034**	ug/L	0.025	72	6	3	50	KED
⌊	**As**	**75**	**0.011**	ug/L	0.009	76	3	5	36	KED
	Y	**89**		ug/L			40261	37510	2	Standard
	Kr	**83**		ug/L			50	50	13	Standard
⌈>	**In-1**	**115**		ug/L			6674	5933	1	KED
|	**Cd**	**111**	**0.006**	ug/L	0.015	259	2	3	86	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.002	367	3	3	35	KED
⌈>	**In**	**115**		ug/L			458892	409881	3	Standard
|	**Ag**	**107**	**0.035**	ug/L	0.051	145	13	488	142	Standard
|	**Ba**	**135**	**0.021**	ug/L	0.038	176	43	145	130	Standard
⌊	**Ba**	**137**	**0.022**	ug/L	0.042	189	78	267	139	Standard
⌈>	**Tb**	**159**		ug/L			181387	165152	2	Standard
⌊	**Pb**	**208**	**0.018**	ug/L	0.032	172	323	1800	144	Standard

Sample Information

Sample Date/Time: Thursday, May 11, 2023 14:21:46
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.m
Mass Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Conditions File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

Calibration

Analyte	Mass	**r Corr Coef**	Slope	Std 1 Conc	Std 2 Conc	Std 3 Conc	Std 4 Conc	Std 5 Conc
C	13							
Cl	37							
Sc	45							
Cr	52	**1.0000**	0.027	0.50	10	20	50	100
Cr	53	**1.0000**	0.003	0.50	10	20	50	100
Mn	55	**1.0000**	0.040	0.50	10	20	50	100
Ge	72							
Ni	60	**1.0000**	0.047	0.50	10	20	50	100
Ni	62	**1.0000**	0.007	0.50	10	20	50	100
Cu	63	**0.9999**	0.133	0.50	10	20	50	100
Cu	65	**0.9999**	0.067	0.50	10	20	50	100
Zn	66	**1.0000**	0.017	6.00	10	20	50	100
Zn	67	**0.9999**	0.003	6.00	10	20	50	100
As	75	**1.0000**	0.008	0.20	10	20	50	100
Y	89							
Kr	83							
In-1	115							
Cd	111	**1.0000**	0.036	0.10	10	20	50	100
Cd	114	**1.0000**	0.092	0.10	10	20	50	100
In	115							
Ag	107	**1.0000**	0.033	0.20	10	20	50	100
Ba	135	**1.0000**	0.012	0.50	10	20	50	100
Ba	137	**0.9999**	0.022	0.50	10	20	50	100
Tb	159							
Pb	208	**1.0000**	0.483	0.10	10	20	50	100

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-ICV1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 14:34:59
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			29450	32734	2	Standard
	Cl	**37**		ug/L			2929441	3121402	2	Standard
⌈>	**Sc**	**45**		ug/L			500966	460267	1	Standard
|	**Cr**	**52**	**51.318**	ug/L	0.712	1	9079	649020	0	Standard
|	**Cr**	**53**	**51.236**	ug/L	0.611	1	93	73879	0	Standard
⌊	**Mn**	**55**	**51.172**	ug/L	0.995	1	264	931167	1	Standard
⌈>	**Ge**	**72**		ug/L			31052	29525	1	KED
|	**Ni**	**60**	**52.057**	ug/L	0.958	1	26	72781	1	KED
|	**Ni**	**62**	**52.067**	ug/L	1.276	2	6	11487	2	KED
|	**Cu**	**63**	**52.782**	ug/L	0.236	0	43	207145	1	KED
|	**Cu**	**65**	**51.949**	ug/L	0.255	0	30	103549	1	KED
|	**Zn**	**66**	**50.602**	ug/L	1.227	2	36	24700	2	KED
|	**Zn**	**67**	**50.874**	ug/L	3.016	5	6	4052	6	KED
⌊	**As**	**75**	**48.312**	ug/L	0.218	0	3	11486	1	KED
	Y	**89**		ug/L			40261	39977	0	Standard
	Kr	**83**		ug/L			50	42	20	Standard
⌈>	**In-1**	**115**		ug/L			6674	6124	0	KED
|	**Cd**	**111**	**50.931**	ug/L	1.126	2	2	11283	2	KED
⌊	**Cd**	**114**	**50.926**	ug/L	1.309	2	3	28780	2	KED
⌈>	**In**	**115**		ug/L			458892	418731	1	Standard
|	**Ag**	**107**	**51.018**	ug/L	0.913	1	13	695521	1	Standard
|	**Ba**	**135**	**50.635**	ug/L	0.899	1	43	256949	0	Standard
⌊	**Ba**	**137**	**51.005**	ug/L	0.239	0	78	461777	0	Standard
⌈>	**Tb**	**159**		ug/L			181387	173193	1	Standard
⌊	**Pb**	**208**	**51.355**	ug/L	1.100	2	323	4294627	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-ICB1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 14:42:15
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			29450	27252	2	Standard
	Cl	**37**		ug/L			2929441	2901324	2	Standard
⌈>	**Sc**	**45**		ug/L			500966	435323	2	Standard
|	**Cr**	**52**	**0.031**	ug/L	0.014	45	9079	8249	2	Standard
|	**Cr**	**53**	**-0.007**	ug/L	0.002	27	93	71	0	Standard
⌊	**Mn**	**55**	**-0.001**	ug/L	0.001	81	264	219	2	Standard
⌈>	**Ge**	**72**		ug/L			31052	29290	1	KED
|	**Ni**	**60**	**-0.000**	ug/L	0.004	1473	26	24	20	KED
|	**Ni**	**62**	**0.019**	ug/L	0.014	72	6	10	28	KED
|	**Cu**	**63**	**-0.004**	ug/L	0.001	17	43	24	12	KED
|	**Cu**	**65**	**-0.008**	ug/L	0.000	1	30	13	0	KED
|	**Zn**	**66**	**0.000**	ug/L	0.009	2333	36	34	11	KED
|	**Zn**	**67**	**-0.051**	ug/L	0.014	28	6	2	43	KED
⌊	**As**	**75**	**0.002**	ug/L	0.005	257	3	3	37	KED
	Y	**89**		ug/L			40261	37372	2	Standard
	Kr	**83**		ug/L			50	38	10	Standard
⌈>	**In-1**	**115**		ug/L			6674	6114	0	KED
|	**Cd**	**111**	**0.004**	ug/L	0.015	382	2	3	95	KED
⌊	**Cd**	**114**	**0.000**	ug/L	0.002	438	3	3	34	KED
⌈>	**In**	**115**		ug/L			458892	415249	2	Standard
|	**Ag**	**107**	**0.004**	ug/L	0.000	8	13	63	9	Standard
|	**Ba**	**135**	**-0.001**	ug/L	0.003	537	43	36	37	Standard
⌊	**Ba**	**137**	**-0.001**	ug/L	0.001	158	78	62	18	Standard
⌈>	**Tb**	**159**		ug/L			181387	163951	1	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.001	113	323	249	17	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 14:46:58
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				27246	4	Standard
	Cl	**37**		ug/L				2837394	3	Standard
⌈>	**Sc**	**45**		ug/L				433133	1	Standard
|	**Cr**	**52**		ug/L				8166	2	Standard
|	**Cr**	**53**		ug/L				76	12	Standard
⌊	**Mn**	**55**		ug/L				206	7	Standard
⌈>	**Ge**	**72**		ug/L				28633	1	KED
|	**Ni**	**60**		ug/L				24	13	KED
|	**Ni**	**62**		ug/L				1	86	KED
|	**Cu**	**63**		ug/L				24	19	KED
|	**Cu**	**65**		ug/L				15	33	KED
|	**Zn**	**66**		ug/L				23	32	KED
|	**Zn**	**67**		ug/L				6	124	KED
⌊	**As**	**75**		ug/L				1	78	KED
	Y	**89**		ug/L				37407	4	Standard
	Kr	**83**		ug/L				39	7	Standard
⌈>	**In-1**	**115**		ug/L				6039	1	KED
|	**Cd**	**111**		ug/L				2	145	KED
⌊	**Cd**	**114**		ug/L				2	117	KED
⌈>	**In**	**115**		ug/L				409433	1	Standard
|	**Ag**	**107**		ug/L				34	22	Standard
|	**Ba**	**135**		ug/L				38	7	Standard
⌊	**Ba**	**137**		ug/L				64	17	Standard
⌈>	**Tb**	**159**		ug/L				161761	1	Standard
⌊	**Pb**	**208**		ug/L				227	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 14:54:54
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				27289	5	Standard
>	**Sc**	**45**		ug/L				453480	1	Standard
	Cr	**52**		ug/L				8256	1	Standard
	Cr	**53**		ug/L				77	3	Standard
	Mn	**55**		ug/L				193	3	Standard
>	**Ge**	**72**		ug/L				28304	1	KED
	Ni	**60**		ug/L				22	14	KED
	Ni	**62**		ug/L				1	86	KED
	Cu	**63**		ug/L				24	44	KED
	Cu	**65**		ug/L				12	18	KED
	Zn	**66**		ug/L				26	18	KED
	Zn	**67**		ug/L				5	0	KED
	As	**75**		ug/L				2	10	KED
	Y	**89**		ug/L				38013	1	Standard
	Kr	**83**		ug/L				36	13	Standard
>	**In-1**	**115**		ug/L				5725	0	KED
	Cd	**111**		ug/L				4	70	KED
	Cd	**114**		ug/L				3	87	KED
>	**In**	**115**		ug/L				411490	1	Standard
	Ag	**107**		ug/L				27	3	Standard
	Ba	**135**		ug/L				32	0	Standard
	Ba	**137**		ug/L				62	16	Standard
>	**Tb**	**159**		ug/L				164240	3	Standard
	Pb	**208**		ug/L				214	14	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV1
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Thursday, May 11, 2023 14:59:25
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27289	27062	2	Standard
>	**Sc**	**45**		ug/L			453480	440161	7	Standard
	Cr	**52**	**50.337**	ug/L	3.140	6	8256	607294	2	Standard
	Cr	**53**	**51.443**	ug/L	3.485	6	77	70699	1	Standard
	Mn	**55**	**50.441**	ug/L	2.492	4	193	875712	2	Standard
>	**Ge**	**72**		ug/L			28304	29116	2	KED
	Ni	**60**	**50.025**	ug/L	0.415	0	22	68966	2	KED
	Ni	**62**	**50.660**	ug/L	1.091	2	1	11014	1	KED
	Cu	**63**	**50.669**	ug/L	0.680	1	24	196030	1	KED
	Cu	**65**	**50.092**	ug/L	1.903	3	12	98378	1	KED
	Zn	**66**	**50.553**	ug/L	1.736	3	26	24313	1	KED
	Zn	**67**	**51.938**	ug/L	2.526	4	5	4074	3	KED
	As	**75**	**49.544**	ug/L	1.372	2	2	11609	0	KED
	Y	**89**		ug/L			38013	37634	8	Standard
	Kr	**83**		ug/L			36	52	23	Standard
>	**In-1**	**115**		ug/L			5725	6030	2	KED
	Cd	**111**	**50.347**	ug/L	1.224	2	4	10979	0	KED
	Cd	**114**	**50.833**	ug/L	1.154	2	3	28277	0	KED
>	**In**	**115**		ug/L			411490	395011	7	Standard
	Ag	**107**	**51.162**	ug/L	2.079	4	27	656715	3	Standard
	Ba	**135**	**51.093**	ug/L	2.849	5	32	243997	3	Standard
	Ba	**137**	**50.478**	ug/L	3.171	6	62	429804	1	Standard
>	**Tb**	**159**		ug/L			164240	165110	7	Standard
	Pb	**208**	**51.095**	ug/L	3.200	6	214	4061166	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 15:06:40
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27289	28083	4	Standard
⌈>	**Sc**	**45**		ug/L			453480	460376	2	Standard
|	**Cr**	**52**	**49.268**	ug/L	0.237	0	8256	623624	2	Standard
|	**Cr**	**53**	**48.687**	ug/L	0.344	0	77	70224	2	Standard
⌊	**Mn**	**55**	**49.182**	ug/L	0.910	1	193	895012	1	Standard
⌈>	**Ge**	**72**		ug/L			28304	29239	2	KED
|	**Ni**	**60**	**50.169**	ug/L	0.848	1	22	69473	3	KED
|	**Ni**	**62**	**50.974**	ug/L	1.193	2	1	11133	3	KED
|	**Cu**	**63**	**50.018**	ug/L	0.409	0	24	194361	1	KED
|	**Cu**	**65**	**49.969**	ug/L	0.555	1	12	98612	1	KED
|	**Zn**	**66**	**50.950**	ug/L	0.867	1	26	24617	0	KED
|	**Zn**	**67**	**50.684**	ug/L	0.714	1	5	3994	0	KED
⌊	**As**	**75**	**49.714**	ug/L	0.612	1	2	11702	0	KED
	Y	**89**		ug/L			38013	39217	2	Standard
	Kr	**83**		ug/L			36	42	25	Standard
⌈>	**In-1**	**115**		ug/L			5725	6156	1	KED
|	**Cd**	**111**	**50.268**	ug/L	0.769	1	4	11197	1	KED
⌊	**Cd**	**114**	**49.967**	ug/L	0.817	1	3	28389	1	KED
⌈>	**In**	**115**		ug/L			411490	411382	1	Standard
|	**Ag**	**107**	**50.038**	ug/L	0.943	1	27	670246	2	Standard
|	**Ba**	**135**	**48.789**	ug/L	1.142	2	32	243298	3	Standard
⌊	**Ba**	**137**	**49.603**	ug/L	0.657	1	62	441251	2	Standard
⌈>	**Tb**	**159**		ug/L			164240	172225	2	Standard
⌊	**Pb**	**208**	**49.434**	ug/L	0.951	1	214	4111011	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 15:13:55
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27289	27314	3	Standard
⌈>	**Sc**	**45**		ug/L			453480	456632	1	Standard
|	**Cr**	**52**	**0.002**	ug/L	0.009	627	8256	8331	1	Standard
|	**Cr**	**53**	**-0.012**	ug/L	0.007	63	77	61	18	Standard
⌊	**Mn**	**55**	**0.002**	ug/L	0.001	58	193	228	9	Standard
⌈>	**Ge**	**72**		ug/L			28304	29402	1	KED
|	**Ni**	**60**	**0.001**	ug/L	0.009	676	22	25	45	KED
|	**Ni**	**62**	**0.017**	ug/L	0.019	107	1	5	78	KED
|	**Cu**	**63**	**0.003**	ug/L	0.001	47	24	36	16	KED
|	**Cu**	**65**	**0.002**	ug/L	0.003	167	12	16	40	KED
|	**Zn**	**66**	**0.011**	ug/L	0.007	64	26	32	11	KED
|	**Zn**	**67**	**0.005**	ug/L	0.015	286	5	6	17	KED
⌊	**As**	**75**	**0.008**	ug/L	0.002	26	2	4	11	KED
	Y	**89**		ug/L			38013	38102	2	Standard
	Kr	**83**		ug/L			36	40	26	Standard
⌈>	**In-1**	**115**		ug/L			5725	6168	0	KED
|	**Cd**	**111**	**-0.013**	ug/L	0.007	51	4	1	91	KED
⌊	**Cd**	**114**	**-0.004**	ug/L	0.003	89	3	1	103	KED
⌈>	**In**	**115**		ug/L			411490	415787	1	Standard
|	**Ag**	**107**	**0.003**	ug/L	0.000	15	27	70	9	Standard
|	**Ba**	**135**	**0.002**	ug/L	0.002	81	32	43	20	Standard
⌊	**Ba**	**137**	**0.001**	ug/L	0.001	97	62	74	14	Standard
⌈>	**Tb**	**159**		ug/L			164240	164798	2	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	46	214	285	13	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CRL1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 15:18:52
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27289	31340	3	Standard
⌈>	**Sc**	**45**		ug/L			453480	457759	1	Standard
|	**Cr**	**52**	**0.497**	ug/L	0.030	6	8256	14505	1	Standard
|	**Cr**	**53**	**0.480**	ug/L	0.006	1	77	766	2	Standard
⌊	**Mn**	**55**	**0.503**	ug/L	0.008	1	193	9302	0	Standard
⌈>	**Ge**	**72**		ug/L			28304	29147	0	KED
|	**Ni**	**60**	**0.526**	ug/L	0.038	7	22	749	6	KED
|	**Ni**	**62**	**0.510**	ug/L	0.024	4	1	112	5	KED
|	**Cu**	**63**	**0.700**	ug/L	0.033	4	24	2736	4	KED
|	**Cu**	**65**	**0.654**	ug/L	0.037	5	12	1299	5	KED
|	**Zn**	**66**	**6.516**	ug/L	0.092	1	26	3162	1	KED
|	**Zn**	**67**	**5.954**	ug/L	0.279	4	5	473	4	KED
⌊	**As**	**75**	**0.199**	ug/L	0.021	10	2	49	9	KED
	Y	**89**		ug/L			38013	38127	2	Standard
	Kr	**83**		ug/L			36	44	40	Standard
⌈>	**In-1**	**115**		ug/L			5725	5964	0	KED
|	**Cd**	**111**	**0.083**	ug/L	0.014	16	4	22	13	KED
⌊	**Cd**	**114**	**0.085**	ug/L	0.020	23	3	50	21	KED
⌈>	**In**	**115**		ug/L			411490	416552	1	Standard
|	**Ag**	**107**	**0.206**	ug/L	0.010	4	27	2817	4	Standard
|	**Ba**	**135**	**0.486**	ug/L	0.006	1	32	2485	1	Standard
⌊	**Ba**	**137**	**0.497**	ug/L	0.008	1	62	4542	2	Standard
⌈>	**Tb**	**159**		ug/L			164240	163726	0	Standard
⌊	**Pb**	**208**	**0.113**	ug/L	0.001	0	214	9144	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IFA1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 15:23:30
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27289	97217	3	Standard
>	Sc	45		ug/L			453480	450990	1	Standard
	Cr	52	0.619	ug/L	0.009	1	8256	15784	2	Standard
	Cr	53	1.691	ug/L	0.026	1	77	2463	3	Standard
	Mn	55	0.128	ug/L	0.002	1	193	2482	1	Standard
>	Ge	72		ug/L			28304	27762	1	KED
	Ni	60	0.098	ug/L	0.014	14	22	151	12	KED
	Ni	62	0.126	ug/L	0.038	30	1	27	28	KED
	Cu	63	0.045	ug/L	0.008	17	24	189	14	KED
	Cu	65	0.054	ug/L	0.007	13	12	112	11	KED
	Zn	66	0.231	ug/L	0.023	10	26	131	7	KED
	Zn	67	0.163	ug/L	0.041	25	5	17	16	KED
	As	75	0.021	ug/L	0.011	52	2	7	35	KED
	Y	89		ug/L			38013	38861	1	Standard
	Kr	83		ug/L			36	71	17	Standard
>	In-1	115		ug/L			5725	5764	1	KED
	Cd	111	0.047	ug/L	0.016	33	4	13	21	KED
	Cd	114	0.044	ug/L	0.005	11	3	27	8	KED
>	In	115		ug/L			411490	393779	0	Standard
	Ag	107	0.004	ug/L	0.002	42	27	79	28	Standard
	Ba	135	0.107	ug/L	0.010	9	32	544	9	Standard
	Ba	137	0.101	ug/L	0.006	6	62	920	6	Standard
>	Tb	159		ug/L			164240	161181	0	Standard
	Pb	208	0.017	ug/L	0.001	6	214	1535	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IFB1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 15:28:01
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27289	95582	3	Standard
⌈>	**Sc**	**45**		ug/L			453480	451501	3	Standard
|	**Cr**	**52**	**19.309**	ug/L	0.190	0	8256	244658	2	Standard
|	**Cr**	**53**	**20.701**	ug/L	0.085	0	77	29324	3	Standard
⌊	**Mn**	**55**	**19.005**	ug/L	0.376	1	193	339259	1	Standard
⌈>	**Ge**	**72**		ug/L			28304	27187	1	KED
|	**Ni**	**60**	**20.096**	ug/L	0.486	2	22	25881	1	KED
|	**Ni**	**62**	**20.993**	ug/L	0.239	1	1	4264	1	KED
|	**Cu**	**63**	**20.032**	ug/L	0.187	0	24	72395	1	KED
|	**Cu**	**65**	**20.081**	ug/L	0.166	0	12	36858	1	KED
|	**Zn**	**66**	**19.222**	ug/L	0.170	0	26	8652	0	KED
|	**Zn**	**67**	**18.232**	ug/L	0.644	3	5	1339	3	KED
⌊	**As**	**75**	**19.554**	ug/L	0.554	2	2	4280	1	KED
	Y	**89**		ug/L			38013	38083	1	Standard
	Kr	**83**		ug/L			36	75	20	Standard
⌈>	**In-1**	**115**		ug/L			5725	5656	2	KED
|	**Cd**	**111**	**18.852**	ug/L	0.493	2	4	3859	1	KED
⌊	**Cd**	**114**	**18.980**	ug/L	0.824	4	3	9903	2	KED
⌈>	**In**	**115**		ug/L			411490	394438	3	Standard
|	**Ag**	**107**	**18.557**	ug/L	0.095	0	27	238342	3	Standard
|	**Ba**	**135**	**0.109**	ug/L	0.004	3	32	553	6	Standard
⌊	**Ba**	**137**	**0.103**	ug/L	0.003	3	62	939	2	Standard
⌈>	**Tb**	**159**		ug/L			164240	161935	2	Standard
⌊	**Pb**	**208**	**0.019**	ug/L	0.001	6	214	1687	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-HCV1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 15:32:34
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27289	31805	1	Standard
⌈>	**Sc**	**45**		ug/L			453480	454340	1	Standard
|	**Cr**	**52**	**193.447**	ug/L	1.846	0	8256	2392229	0	Standard
|	**Cr**	**53**	**189.875**	ug/L	3.302	1	77	269997	0	Standard
⌊	**Mn**	**55**	**197.868**	ug/L	1.246	0	193	3553689	1	Standard
⌈>	**Ge**	**72**		ug/L			28304	27450	1	KED
|	**Ni**	**60**	**192.267**	ug/L	5.856	3	22	249819	2	KED
|	**Ni**	**62**	**196.530**	ug/L	4.033	2	1	40290	0	KED
|	**Cu**	**63**	**191.286**	ug/L	3.025	1	24	697752	0	KED
|	**Cu**	**65**	**190.234**	ug/L	3.652	1	12	352415	0	KED
|	**Zn**	**66**	**192.981**	ug/L	3.879	2	26	87475	0	KED
|	**Zn**	**67**	**189.380**	ug/L	2.775	1	5	14001	1	KED
⌊	**As**	**75**	**197.010**	ug/L	2.672	1	2	43533	0	KED
	Y	**89**		ug/L			38013	39134	3	Standard
	Kr	**83**		ug/L			36	62	16	Standard
⌈>	**In-1**	**115**		ug/L			5725	5844	2	KED
|	**Cd**	**111**	**192.594**	ug/L	5.941	3	4	40691	1	KED
⌊	**Cd**	**114**	**193.758**	ug/L	8.282	4	3	104415	1	KED
⌈>	**In**	**115**		ug/L			411490	380931	1	Standard
|	**Ag**	**107**	**200.601**	ug/L	2.547	1	27	2487769	0	Standard
|	**Ba**	**135**	**198.373**	ug/L	1.293	0	32	915840	2	Standard
⌊	**Ba**	**137**	**195.380**	ug/L	0.838	0	62	1609046	1	Standard
⌈>	**Tb**	**159**		ug/L			164240	163550	1	Standard
⌊	**Pb**	**208**	**195.400**	ug/L	2.950	1	214	15432200	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-HCV2
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 15:37:04
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27289	33722	4	Standard
⌈>	**Sc**	**45**		ug/L			453480	441731	1	Standard
|	**Cr**	**52**	**305.091**	ug/L	5.565	1	8256	3663729	2	Standard
|	**Cr**	**53**	**291.524**	ug/L	3.403	1	77	403107	2	Standard
⌊	**Mn**	**55**	**309.118**	ug/L	3.307	1	193	5397400	0	Standard
⌈>	**Ge**	**72**		ug/L			28304	27437	2	KED
|	**Ni**	**60**	**286.248**	ug/L	4.261	1	22	371797	2	KED
|	**Ni**	**62**	**294.176**	ug/L	9.832	3	1	60269	2	KED
|	**Cu**	**63**	**283.486**	ug/L	4.433	1	24	1033499	1	KED
|	**Cu**	**65**	**282.457**	ug/L	3.737	1	12	522986	0	KED
|	**Zn**	**66**	**280.790**	ug/L	3.654	1	26	127206	1	KED
|	**Zn**	**67**	**275.224**	ug/L	2.531	0	5	20333	1	KED
⌊	**As**	**75**	**296.499**	ug/L	4.791	1	2	65477	0	KED
	Y	**89**		ug/L			38013	36418	0	Standard
	Kr	**83**		ug/L			36	125	5	Standard
⌈>	**In-1**	**115**		ug/L			5725	5693	1	KED
|	**Cd**	**111**	**284.581**	ug/L	0.587	0	4	58604	1	KED
⌊	**Cd**	**114**	**287.279**	ug/L	2.990	1	3	150943	2	KED
⌈>	**In**	**115**		ug/L			411490	368922	1	Standard
|	**Ag**	**107**	**295.425**	ug/L	4.404	1	27	3548209	0	Standard
|	**Ba**	**135**	**285.410**	ug/L	2.244	0	32	1275959	0	Standard
⌊	**Ba**	**137**	**297.174**	ug/L	7.652	2	62	2369613	1	Standard
⌈>	**Tb**	**159**		ug/L			164240	153395	0	Standard
⌊	**Pb**	**208**	**299.935**	ug/L	6.119	2	214	22217572	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL2
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 15:50:08
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27289	32080	5	Standard
>	**Sc**	**45**		ug/L			453480	462017	3	Standard
	Cr	**52**	**0.029**	ug/L	0.011	37	8256	8782	4	Standard
	Cr	**53**	**0.033**	ug/L	0.009	27	77	126	12	Standard
	Mn	**55**	**0.008**	ug/L	0.000	4	193	346	5	Standard
>	**Ge**	**72**		ug/L			28304	31188	2	KED
	Ni	**60**	**0.010**	ug/L	0.003	31	22	40	12	KED
	Ni	**62**	**0.018**	ug/L	0.028	152	1	5	115	KED
	Cu	**63**	**0.005**	ug/L	0.002	33	24	46	14	KED
	Cu	**65**	**0.008**	ug/L	0.004	50	12	31	30	KED
	Zn	**66**	**0.067**	ug/L	0.033	48	26	63	27	KED
	Zn	**67**	**0.030**	ug/L	0.033	107	5	8	32	KED
	As	**75**	**0.035**	ug/L	0.003	8	2	11	8	KED
	Y	**89**		ug/L			38013	37074	2	Standard
	Kr	**83**		ug/L			36	41	16	Standard
>	**In-1**	**115**		ug/L			5725	6678	0	KED
	Cd	**111**	**0.344**	ug/L	0.610	177	4	88	167	KED
	Cd	**114**	**0.415**	ug/L	0.712	171	3	260	168	KED
>	**In**	**115**		ug/L			411490	405907	5	Standard
	Ag	**107**	**0.008**	ug/L	0.000	4	27	138	3	Standard
	Ba	**135**	**0.011**	ug/L	0.002	15	32	84	9	Standard
	Ba	**137**	**0.012**	ug/L	0.001	10	62	166	9	Standard
>	**Tb**	**159**		ug/L			164240	165413	2	Standard
	Pb	**208**	**0.007**	ug/L	0.001	7	214	765	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL3
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 15:56:33
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27289	32817	6	Standard
⌈>	**Sc**	**45**		ug/L			453480	465595	0	Standard
|	**Cr**	**52**	**0.033**	ug/L	0.029	89	8256	8891	4	Standard
|	**Cr**	**53**	**0.022**	ug/L	0.008	36	77	112	10	Standard
⌊	**Mn**	**55**	**0.007**	ug/L	0.001	16	193	324	6	Standard
⌈>	**Ge**	**72**		ug/L			28304	30609	0	KED
|	**Ni**	**60**	**0.006**	ug/L	0.004	63	22	33	16	KED
|	**Ni**	**62**	**0.022**	ug/L	0.005	21	1	6	17	KED
|	**Cu**	**63**	**0.007**	ug/L	0.001	12	24	53	7	KED
|	**Cu**	**65**	**0.006**	ug/L	0.002	42	12	24	20	KED
|	**Zn**	**66**	**0.061**	ug/L	0.030	49	26	59	25	KED
|	**Zn**	**67**	**0.110**	ug/L	0.022	20	5	15	12	KED
⌊	**As**	**75**	**0.017**	ug/L	0.009	50	2	6	30	KED
	Y	**89**		ug/L			38013	37828	1	Standard
	Kr	**83**		ug/L			36	46	19	Standard
⌈>	**In-1**	**115**		ug/L			5725	6380	1	KED
|	**Cd**	**111**	**-0.006**	ug/L	0.009	141	4	3	62	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.004	208	3	3	71	KED
⌈>	**In**	**115**		ug/L			411490	411081	2	Standard
|	**Ag**	**107**	**0.003**	ug/L	0.001	38	27	61	18	Standard
|	**Ba**	**135**	**0.009**	ug/L	0.000	2	32	76	1	Standard
⌊	**Ba**	**137**	**0.008**	ug/L	0.001	19	62	129	8	Standard
⌈>	**Tb**	**159**		ug/L			164240	168060	0	Standard
⌊	**Pb**	**208**	**0.006**	ug/L	0.000	6	214	699	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV2
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 16:02:10
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27289	28875	4	Standard
⌈>	**Sc**	**45**		ug/L			453480	482814	0	Standard
|	**Cr**	**52**	**48.915**	ug/L	1.071	2	8256	649472	2	Standard
|	**Cr**	**53**	**48.922**	ug/L	0.840	1	77	74007	2	Standard
⌊	**Mn**	**55**	**48.618**	ug/L	1.178	2	193	928265	3	Standard
⌈>	**Ge**	**72**		ug/L			28304	31467	1	KED
|	**Ni**	**60**	**47.900**	ug/L	0.847	1	22	71376	2	KED
|	**Ni**	**62**	**48.879**	ug/L	1.757	3	1	11486	2	KED
|	**Cu**	**63**	**48.723**	ug/L	0.352	0	24	203768	0	KED
|	**Cu**	**65**	**48.305**	ug/L	0.286	0	12	102604	1	KED
|	**Zn**	**66**	**49.318**	ug/L	0.810	1	26	25649	1	KED
|	**Zn**	**67**	**49.869**	ug/L	0.085	0	5	4231	1	KED
⌊	**As**	**75**	**48.603**	ug/L	0.330	0	2	12314	0	KED
	Y	**89**		ug/L			38013	39328	2	Standard
	Kr	**83**		ug/L			36	48	6	Standard
⌈>	**In-1**	**115**		ug/L			5725	6414	1	KED
|	**Cd**	**111**	**48.597**	ug/L	0.674	1	4	11277	0	KED
⌊	**Cd**	**114**	**47.948**	ug/L	0.913	1	3	28379	0	KED
⌈>	**In**	**115**		ug/L			411490	417201	1	Standard
|	**Ag**	**107**	**49.941**	ug/L	0.254	0	27	678388	1	Standard
|	**Ba**	**135**	**50.373**	ug/L	0.671	1	32	254680	0	Standard
⌊	**Ba**	**137**	**50.599**	ug/L	0.533	1	62	456395	1	Standard
⌈>	**Tb**	**159**		ug/L			164240	175544	1	Standard
⌊	**Pb**	**208**	**48.892**	ug/L	0.986	2	214	4144705	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB2
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 16:09:26
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27289	27823	4	Standard
⌈>	**Sc**	**45**		ug/L			453480	465227	3	Standard
|	**Cr**	**52**	**0.015**	ug/L	0.021	141	8256	8652	0	Standard
|	**Cr**	**53**	**0.001**	ug/L	0.006	536	77	81	8	Standard
⌊	**Mn**	**55**	**0.002**	ug/L	0.001	58	193	232	8	Standard
⌈>	**Ge**	**72**		ug/L			28304	30317	1	KED
|	**Ni**	**60**	**0.002**	ug/L	0.007	437	22	26	35	KED
|	**Ni**	**62**	**0.016**	ug/L	0.005	30	1	5	21	KED
|	**Cu**	**63**	**0.002**	ug/L	0.001	88	24	32	17	KED
|	**Cu**	**65**	**0.005**	ug/L	0.002	42	12	22	17	KED
|	**Zn**	**66**	**0.047**	ug/L	0.018	38	26	51	18	KED
|	**Zn**	**67**	**0.057**	ug/L	0.047	82	5	10	36	KED
⌊	**As**	**75**	**0.016**	ug/L	0.005	33	2	6	18	KED
	Y	**89**		ug/L			38013	37122	1	Standard
	Kr	**83**		ug/L			36	37	32	Standard
⌈>	**In-1**	**115**		ug/L			5725	6495	4	KED
|	**Cd**	**111**	**-0.005**	ug/L	0.006	118	4	3	41	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.002	61	3	2	45	KED
⌈>	**In**	**115**		ug/L			411490	406741	3	Standard
|	**Ag**	**107**	**0.004**	ug/L	0.001	22	27	74	16	Standard
|	**Ba**	**135**	**0.003**	ug/L	0.001	26	32	47	6	Standard
⌊	**Ba**	**137**	**0.001**	ug/L	0.000	28	62	73	1	Standard
⌈>	**Tb**	**159**		ug/L			164240	165879	2	Standard
⌊	**Pb**	**208**	**0.002**	ug/L	0.000	24	214	357	12	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 16:15:15
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				27225	3	Standard
⎡>	**Sc**	**45**		ug/L				460122	1	Standard
⎢	**Cr**	**52**		ug/L				8551	1	Standard
⎢	**Cr**	**53**		ug/L				93	7	Standard
⎣	**Mn**	**55**		ug/L				219	2	Standard
⎡>	**Ge**	**72**		ug/L				30494	0	KED
⎢	**Ni**	**60**		ug/L				28	24	KED
⎢	**Ni**	**62**		ug/L				3	0	KED
⎢	**Cu**	**63**		ug/L				26	37	KED
⎢	**Cu**	**65**		ug/L				10	54	KED
⎢	**Zn**	**66**		ug/L				19	49	KED
⎢	**Zn**	**67**		ug/L				3	91	KED
⎣	**As**	**75**		ug/L				2	57	KED
	Y	**89**		ug/L				38927	1	Standard
	Kr	**83**		ug/L				46	28	Standard
⎡>	**In-1**	**115**		ug/L				6386	0	KED
⎢	**Cd**	**111**		ug/L				4	135	KED
⎣	**Cd**	**114**		ug/L				13	137	KED
⎡>	**In**	**115**		ug/L				414575	1	Standard
⎢	**Ag**	**107**		ug/L				42	6	Standard
⎢	**Ba**	**135**		ug/L				38	10	Standard
⎣	**Ba**	**137**		ug/L				52	20	Standard
⎡>	**Tb**	**159**		ug/L				165965	0	Standard
⎣	**Pb**	**208**		ug/L				210	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV3
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 16:19:47
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27225	28719	3	Standard
⌈>	**Sc**	**45**		ug/L			460122	479980	1	Standard
|	**Cr**	**52**	**48.714**	ug/L	0.892	1	8551	643070	0	Standard
|	**Cr**	**53**	**49.494**	ug/L	0.747	1	93	74427	0	Standard
⌊	**Mn**	**55**	**49.581**	ug/L	1.295	2	219	940735	1	Standard
⌈>	**Ge**	**72**		ug/L			30494	30799	1	KED
|	**Ni**	**60**	**49.076**	ug/L	0.404	0	28	71585	1	KED
|	**Ni**	**62**	**50.137**	ug/L	0.582	1	3	11536	0	KED
|	**Cu**	**63**	**49.653**	ug/L	0.328	0	26	203267	1	KED
|	**Cu**	**65**	**49.757**	ug/L	0.853	1	10	103428	0	KED
|	**Zn**	**66**	**51.089**	ug/L	0.637	1	19	25996	0	KED
|	**Zn**	**67**	**49.790**	ug/L	0.492	0	3	4132	2	KED
⌊	**As**	**75**	**49.584**	ug/L	0.515	1	2	12295	0	KED
	Y	**89**		ug/L			38927	40383	1	Standard
	Kr	**83**		ug/L			46	45	18	Standard
⌈>	**In-1**	**115**		ug/L			6386	6468	3	KED
|	**Cd**	**111**	**48.415**	ug/L	0.738	1	4	11326	1	KED
⌊	**Cd**	**114**	**48.721**	ug/L	0.964	1	13	29080	1	KED
⌈>	**In**	**115**		ug/L			414575	414534	0	Standard
|	**Ag**	**107**	**51.238**	ug/L	1.337	2	42	691635	2	Standard
|	**Ba**	**135**	**50.227**	ug/L	0.731	1	38	252349	1	Standard
⌊	**Ba**	**137**	**50.308**	ug/L	0.936	1	52	450887	1	Standard
⌈>	**Tb**	**159**		ug/L			165965	174759	1	Standard
⌊	**Pb**	**208**	**48.648**	ug/L	1.114	2	210	4105611	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB3
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 16:27:02
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27225	27300	2	Standard
⌈>	**Sc**	**45**		ug/L			460122	470436	2	Standard
|	**Cr**	**52**	**-0.018**	ug/L	0.009	52	8551	8514	4	Standard
|	**Cr**	**53**	**-0.003**	ug/L	0.004	131	93	90	5	Standard
⌊	**Mn**	**55**	**-0.000**	ug/L	0.002	781	219	220	13	Standard
⌈>	**Ge**	**72**		ug/L			30494	30726	0	KED
|	**Ni**	**60**	**-0.001**	ug/L	0.005	459	28	27	24	KED
|	**Ni**	**62**	**0.008**	ug/L	0.029	350	3	5	115	KED
|	**Cu**	**63**	**0.001**	ug/L	0.001	93	26	32	15	KED
|	**Cu**	**65**	**0.004**	ug/L	0.001	39	10	17	16	KED
|	**Zn**	**66**	**-0.005**	ug/L	0.008	142	19	17	22	KED
|	**Zn**	**67**	**0.007**	ug/L	0.023	312	3	3	50	KED
⌊	**As**	**75**	**0.006**	ug/L	0.006	100	2	4	33	KED
	Y	**89**		ug/L			38927	38371	2	Standard
	Kr	**83**		ug/L			46	50	12	Standard
⌈>	**In-1**	**115**		ug/L			6386	6581	0	KED
|	**Cd**	**111**	**-0.011**	ug/L	0.005	40	4	1	69	KED
⌊	**Cd**	**114**	**-0.018**	ug/L	0.004	20	13	2	74	KED
⌈>	**In**	**115**		ug/L			414575	415511	1	Standard
|	**Ag**	**107**	**0.002**	ug/L	0.001	45	42	74	17	Standard
|	**Ba**	**135**	**0.004**	ug/L	0.002	41	38	56	14	Standard
⌊	**Ba**	**137**	**0.002**	ug/L	0.001	31	52	67	5	Standard
⌈>	**Tb**	**159**		ug/L			165965	170390	1	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	34	210	278	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0072-BS2
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 16:37:38
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27225	36179	3	Standard
>	Sc	45		ug/L			460122	489899	1	Standard
	Cr	52	24.960	ug/L	0.316	1	8551	340780	0	Standard
	Cr	53	25.380	ug/L	0.338	1	93	39004	0	Standard
	Mn	55	25.393	ug/L	0.561	2	219	491901	0	Standard
>	Ge	72		ug/L			30494	32242	1	KED
	Ni	60	25.240	ug/L	0.314	1	28	38550	1	KED
	Ni	62	25.783	ug/L	0.109	0	3	6213	1	KED
	Cu	63	26.359	ug/L	0.566	2	26	112958	1	KED
	Cu	65	25.384	ug/L	0.481	1	10	55248	2	KED
	Zn	66	79.567	ug/L	1.920	2	19	42370	1	KED
	Zn	67	75.736	ug/L	2.160	2	3	6576	1	KED
	As	75	24.433	ug/L	0.538	2	2	6343	1	KED
	Y	89		ug/L			38927	40159	1	Standard
	Kr	83		ug/L			46	43	4	Standard
>	In-1	115		ug/L			6386	6957	2	KED
	Cd	111	23.957	ug/L	0.603	2	4	6030	1	KED
	Cd	114	24.072	ug/L	0.683	2	13	15459	0	KED
>	In	115		ug/L			414575	431799	0	Standard
	Ag	107	26.127	ug/L	0.824	3	42	367351	3	Standard
	Ba	135	25.404	ug/L	0.211	0	38	132968	0	Standard
	Ba	137	25.330	ug/L	0.211	0	52	236512	1	Standard
>	Tb	159		ug/L			165965	174231	1	Standard
	Pb	208	25.433	ug/L	0.192	0	210	2140092	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0342-BLK1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 16:42:09
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27225	40021	2	Standard
⌈>	Sc	45		ug/L			460122	473873	0	Standard
|	Cr	52	0.097	ug/L	0.010	10	8551	10051	0	Standard
|	Cr	53	0.105	ug/L	0.018	17	93	251	9	Standard
⌊	Mn	55	0.033	ug/L	0.002	5	219	837	3	Standard
⌈>	Ge	72		ug/L			30494	31264	2	KED
|	Ni	60	0.022	ug/L	0.015	70	28	60	35	KED
|	Ni	62	0.016	ug/L	0.016	103	3	7	50	KED
|	Cu	63	0.049	ug/L	0.014	29	26	232	24	KED
|	Cu	65	0.056	ug/L	0.016	28	10	128	24	KED
|	Zn	66	0.470	ug/L	0.069	14	19	262	12	KED
|	Zn	67	0.497	ug/L	0.014	2	3	45	4	KED
⌊	As	75	0.015	ug/L	0.027	177	2	6	98	KED
	Y	89		ug/L			38927	39917	0	Standard
	Kr	83		ug/L			46	39	7	Standard
⌈>	In-1	115		ug/L			6386	6540	1	KED
|	Cd	111	-0.002	ug/L	0.012	633	4	3	75	KED
⌊	Cd	114	-0.006	ug/L	0.013	209	13	9	77	KED
⌈>	In	115		ug/L			414575	415543	1	Standard
|	Ag	107	0.003	ug/L	0.000	11	42	83	6	Standard
|	Ba	135	0.026	ug/L	0.003	12	38	171	9	Standard
⌊	Ba	137	0.029	ug/L	0.003	9	52	314	6	Standard
⌈>	Tb	159		ug/L			165965	169922	1	Standard
⌊	Pb	208	0.006	ug/L	0.001	14	210	718	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0342-BS1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 16:46:40
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27225	39027	2	Standard
>	Sc	45		ug/L			460122	461654	2	Standard
	Cr	52	25.238	ug/L	0.287	1	8551	324601	2	Standard
	Cr	53	25.440	ug/L	0.296	1	93	36851	3	Standard
	Mn	55	25.373	ug/L	0.120	0	219	463229	2	Standard
>	Ge	72		ug/L			30494	30211	2	KED
	Ni	60	26.185	ug/L	0.273	1	28	37483	3	KED
	Ni	62	26.338	ug/L	0.301	1	3	5947	3	KED
	Cu	63	27.433	ug/L	0.170	0	26	110164	2	KED
	Cu	65	26.596	ug/L	0.313	1	10	54234	2	KED
	Zn	66	83.932	ug/L	1.655	1	19	41884	3	KED
	Zn	67	80.250	ug/L	2.169	2	3	6529	3	KED
	As	75	25.370	ug/L	0.056	0	2	6172	2	KED
	Y	89		ug/L			38927	38192	1	Standard
	Kr	83		ug/L			46	52	11	Standard
>	In-1	115		ug/L			6386	6501	3	KED
	Cd	111	25.134	ug/L	1.192	4	4	5907	1	KED
	Cd	114	25.194	ug/L	0.793	3	13	15119	1	KED
>	In	115		ug/L			414575	410527	2	Standard
	Ag	107	25.608	ug/L	0.856	3	42	342138	0	Standard
	Ba	135	25.741	ug/L	0.306	1	38	128095	2	Standard
	Ba	137	25.254	ug/L	0.068	0	52	224183	2	Standard
>	Tb	159		ug/L			165965	165111	0	Standard
	Pb	208	25.619	ug/L	0.557	2	210	2043320	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BS TEST OLD SPIKE
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 16:51:12

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27225	40627	4	Standard
>	Sc	45		ug/L			460122	458950	2	Standard
	Cr	52	26.766	ug/L	0.345	1	8551	341750	2	Standard
	Cr	53	26.847	ug/L	0.458	1	93	38641	0	Standard
	Mn	55	27.372	ug/L	0.430	1	219	496744	2	Standard
>	Ge	72		ug/L			30494	30230	0	KED
	Ni	60	27.633	ug/L	0.426	1	28	39570	1	KED
	Ni	62	28.064	ug/L	0.431	1	3	6340	1	KED
	Cu	63	29.127	ug/L	0.178	0	26	117038	0	KED
	Cu	65	28.454	ug/L	0.497	1	10	58061	1	KED
	Zn	66	89.908	ug/L	0.386	0	19	44892	0	KED
	Zn	67	86.177	ug/L	1.866	2	3	7016	1	KED
	As	75	27.188	ug/L	0.020	0	2	6619	0	KED
	Y	89		ug/L			38927	38692	1	Standard
	Kr	83		ug/L			46	45	39	Standard
>	In-1	115		ug/L			6386	6224	1	KED
	Cd	111	27.062	ug/L	0.623	2	4	6094	0	KED
	Cd	114	27.613	ug/L	0.405	1	13	15870	0	KED
>	In	115		ug/L			414575	412256	1	Standard
	Ag	107	27.469	ug/L	0.347	1	42	368710	1	Standard
	Ba	135	26.960	ug/L	0.678	2	38	134694	1	Standard
	Ba	137	26.753	ug/L	0.291	1	52	238470	1	Standard
>	Tb	159		ug/L			165965	167858	1	Standard
	Pb	208	26.566	ug/L	0.294	1	210	2153961	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BS TEST NEW SPIKE
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 16:55:43

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27225	38854	7	Standard
⌈>	**Sc**	**45**		ug/L			460122	468192	3	Standard
|	**Cr**	**52**	**23.853**	ug/L	0.197	0	8551	311663	3	Standard
|	**Cr**	**53**	**23.892**	ug/L	0.082	0	93	35097	3	Standard
⌊	**Mn**	**55**	**24.567**	ug/L	0.042	0	219	454908	3	Standard
⌈>	**Ge**	**72**		ug/L			30494	30816	1	KED
|	**Ni**	**60**	**24.684**	ug/L	0.484	1	28	36037	2	KED
|	**Ni**	**62**	**24.520**	ug/L	0.523	2	3	5646	1	KED
|	**Cu**	**63**	**25.318**	ug/L	0.217	0	26	103704	1	KED
|	**Cu**	**65**	**25.251**	ug/L	0.532	2	10	52519	1	KED
|	**Zn**	**66**	**78.571**	ug/L	1.426	1	19	39990	1	KED
|	**Zn**	**67**	**74.287**	ug/L	2.241	3	3	6164	1	KED
⌊	**As**	**75**	**23.647**	ug/L	0.271	1	2	5868	0	KED
	Y	**89**		ug/L			38927	39003	4	Standard
	Kr	**83**		ug/L			46	53	14	Standard
⌈>	**In-1**	**115**		ug/L			6386	6281	2	KED
|	**Cd**	**111**	**24.475**	ug/L	0.467	1	4	5562	0	KED
⌊	**Cd**	**114**	**24.380**	ug/L	0.860	3	13	14138	1	KED
⌈>	**In**	**115**		ug/L			414575	423587	2	Standard
|	**Ag**	**107**	**24.883**	ug/L	0.677	2	42	343351	4	Standard
|	**Ba**	**135**	**23.986**	ug/L	0.495	2	38	123196	3	Standard
⌊	**Ba**	**137**	**23.662**	ug/L	0.444	1	52	216790	3	Standard
⌈>	**Tb**	**159**		ug/L			165965	168602	1	Standard
⌊	**Pb**	**208**	**24.317**	ug/L	0.313	1	210	1980323	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23E0271-01
Sample Dil Factor: 5
Comments:
Sample Date/Time: Thursday, May 11, 2023 17:00:14
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27225	142251	4	Standard
>	Sc	45		ug/L			460122	446369	1	Standard
	Cr	52	1.076	ug/L	0.027	2	8551	21317	1	Standard
	Cr	53	0.715	ug/L	0.034	4	93	1087	3	Standard
	Mn	55	5.426	ug/L	0.020	0	219	95958	1	Standard
>	Ge	72		ug/L			30494	28103	0	KED
	Ni	60	0.941	ug/L	0.024	2	28	1278	2	KED
	Ni	62	0.875	ug/L	0.099	11	3	187	11	KED
	Cu	63	0.069	ug/L	0.007	9	26	280	9	KED
	Cu	65	0.063	ug/L	0.007	11	10	128	10	KED
	Zn	66	0.679	ug/L	0.039	5	19	333	5	KED
	Zn	67	1.086	ug/L	0.037	3	3	85	3	KED
	As	75	0.096	ug/L	0.026	26	2	24	23	KED
	Y	89		ug/L			38927	39499	0	Standard
	Kr	83		ug/L			46	41	20	Standard
>	In-1	115		ug/L			6386	5644	1	KED
	Cd	111	-0.006	ug/L	0.010	172	4	2	78	KED
	Cd	114	-0.012	ug/L	0.008	67	13	5	79	KED
>	In	115		ug/L			414575	389922	0	Standard
	Ag	107	0.003	ug/L	0.001	22	42	83	12	Standard
	Ba	135	5.108	ug/L	0.029	0	38	24174	1	Standard
	Ba	137	5.077	ug/L	0.055	1	52	42850	1	Standard
>	Tb	159		ug/L			165965	163179	1	Standard
	Pb	208	0.011	ug/L	0.001	10	210	1069	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23E0239-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Thursday, May 11, 2023 17:05:14
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27225	40361	4	Standard
>	Sc	45		ug/L			460122	468394	2	Standard
	Cr	52	100.505	ug/L	1.370	1	8551	1285499	0	Standard
	Cr	53	102.580	ug/L	0.852	0	93	150438	1	Standard
	Mn	55	1.875	ug/L	0.033	1	219	34923	0	Standard
>	Ge	72		ug/L			30494	28568	2	KED
	Ni	60	1.933	ug/L	0.084	4	28	2638	2	KED
	Ni	62	1.986	ug/L	0.028	1	3	427	1	KED
	Cu	63	15.980	ug/L	0.165	1	26	60693	2	KED
	Cu	65	15.923	ug/L	0.257	1	10	30705	0	KED
	Zn	66	12.253	ug/L	0.340	2	19	5796	1	KED
	Zn	67	11.501	ug/L	0.878	7	3	888	9	KED
	As	75	0.246	ug/L	0.030	12	2	59	9	KED
	Y	89		ug/L			38927	38347	2	Standard
	Kr	83		ug/L			46	35	17	Standard
>	In-1	115		ug/L			6386	5914	2	KED
	Cd	111	0.242	ug/L	0.044	18	4	55	17	KED
	Cd	114	0.250	ug/L	0.010	3	13	148	5	KED
>	In	115		ug/L			414575	390354	0	Standard
	Ag	107	0.013	ug/L	0.003	21	42	200	17	Standard
	Ba	135	1.685	ug/L	0.029	1	38	8004	1	Standard
	Ba	137	1.639	ug/L	0.020	1	52	13878	1	Standard
>	Tb	159		ug/L			165965	163119	1	Standard
	Pb	208	0.270	ug/L	0.002	0	210	21458	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL4
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 17:10:26
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27225	31547	4	Standard
⌈>	**Sc**	**45**		ug/L			460122	443747	2	Standard
|	**Cr**	**52**	**0.140**	ug/L	0.050	35	8551	9920	3	Standard
|	**Cr**	**53**	**0.065**	ug/L	0.038	58	93	179	27	Standard
⌊	**Mn**	**55**	**0.003**	ug/L	0.001	34	219	256	5	Standard
⌈>	**Ge**	**72**		ug/L			30494	28983	0	KED
|	**Ni**	**60**	**0.007**	ug/L	0.004	57	28	36	13	KED
|	**Ni**	**62**	**0.018**	ug/L	0.023	126	3	7	66	KED
|	**Cu**	**63**	**0.004**	ug/L	0.002	61	26	39	22	KED
|	**Cu**	**65**	**0.008**	ug/L	0.004	47	10	25	30	KED
|	**Zn**	**66**	**0.104**	ug/L	0.017	16	19	68	12	KED
|	**Zn**	**67**	**0.124**	ug/L	0.038	30	3	12	22	KED
⌊	**As**	**75**	**0.003**	ug/L	0.008	231	2	3	51	KED
	Y	**89**		ug/L			38927	38028	2	Standard
	Kr	**83**		ug/L			46	40	21	Standard
⌈>	**In-1**	**115**		ug/L			6386	5864	1	KED
|	**Cd**	**111**	**-0.010**	ug/L	0.005	48	4	1	69	KED
⌊	**Cd**	**114**	**-0.013**	ug/L	0.004	30	13	4	44	KED
⌈>	**In**	**115**		ug/L			414575	408589	0	Standard
|	**Ag**	**107**	**-0.001**	ug/L	0.000	68	42	33	16	Standard
|	**Ba**	**135**	**0.006**	ug/L	0.003	56	38	67	24	Standard
⌊	**Ba**	**137**	**0.010**	ug/L	0.002	18	52	135	11	Standard
⌈>	**Tb**	**159**		ug/L			165965	162358	0	Standard
⌊	**Pb**	**208**	**0.003**	ug/L	0.000	3	210	469	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0074-13
Sample Dil Factor: 100
Comments:
Sample Date/Time: Thursday, May 11, 2023 17:16:23
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27225	49095	3	Standard
⌈>	**Sc**	**45**		ug/L			460122	458570	1	Standard
|	**Cr**	**52**	**0.121**	ug/L	0.004	3	8551	10023	0	Standard
|	**Cr**	**53**	**0.117**	ug/L	0.006	5	93	260	3	Standard
⌊	**Mn**	**55**	**62.290**	ug/L	0.696	1	219	1129343	1	Standard
⌈>	**Ge**	**72**		ug/L			30494	29462	1	KED
|	**Ni**	**60**	**0.271**	ug/L	0.028	10	28	405	10	KED
|	**Ni**	**62**	**0.312**	ug/L	0.043	13	3	72	14	KED
|	**Cu**	**63**	**0.012**	ug/L	0.004	34	26	73	23	KED
|	**Cu**	**65**	**0.017**	ug/L	0.007	38	10	43	30	KED
|	**Zn**	**66**	**0.253**	ug/L	0.025	9	19	142	7	KED
|	**Zn**	**67**	**0.330**	ug/L	0.119	36	3	29	32	KED
⌊	**As**	**75**	**0.024**	ug/L	0.006	23	2	8	17	KED
	Y	**89**		ug/L			38927	38051	5	Standard
	Kr	**83**		ug/L			46	41	4	Standard
⌈>	**In-1**	**115**		ug/L			6386	6228	4	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.003	106	4	3	15	KED
⌊	**Cd**	**114**	**-0.017**	ug/L	0.004	21	13	3	72	KED
⌈>	**In**	**115**		ug/L			414575	414433	0	Standard
|	**Ag**	**107**	**-0.001**	ug/L	0.001	51	42	29	22	Standard
|	**Ba**	**135**	**1.303**	ug/L	0.021	1	38	6583	1	Standard
⌊	**Ba**	**137**	**1.275**	ug/L	0.021	1	52	11471	1	Standard
⌈>	**Tb**	**159**		ug/L			165965	164391	0	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	15	210	306	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL5
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 17:21:10
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27225	32250	3	Standard
⌈>	**Sc**	**45**		ug/L			460122	448029	3	Standard
|	**Cr**	**52**	**0.100**	ug/L	0.015	14	8551	9535	1	Standard
|	**Cr**	**53**	**0.007**	ug/L	0.002	32	93	99	4	Standard
⌊	**Mn**	**55**	**0.003**	ug/L	0.000	15	219	269	6	Standard
⌈>	**Ge**	**72**		ug/L			30494	29530	2	KED
|	**Ni**	**60**	**0.005**	ug/L	0.004	76	28	34	14	KED
|	**Ni**	**62**	**0.015**	ug/L	0.026	175	3	6	83	KED
|	**Cu**	**63**	**0.007**	ug/L	0.002	31	26	53	15	KED
|	**Cu**	**65**	**0.009**	ug/L	0.006	67	10	27	45	KED
|	**Zn**	**66**	**0.101**	ug/L	0.022	21	19	68	16	KED
|	**Zn**	**67**	**0.145**	ug/L	0.017	11	3	14	7	KED
⌊	**As**	**75**	**-0.006**	ug/L	0.000	2	2	1	0	KED
	Y	**89**		ug/L			38927	37386	3	Standard
	Kr	**83**		ug/L			46	36	27	Standard
⌈>	**In-1**	**115**		ug/L			6386	6171	1	KED
|	**Cd**	**111**	**-0.011**	ug/L	0.002	22	4	1	34	KED
⌊	**Cd**	**114**	**-0.019**	ug/L	0.003	17	13	1	107	KED
⌈>	**In**	**115**		ug/L			414575	410481	2	Standard
|	**Ag**	**107**	**-0.002**	ug/L	0.001	39	42	17	53	Standard
|	**Ba**	**135**	**0.009**	ug/L	0.001	12	38	81	8	Standard
⌊	**Ba**	**137**	**0.010**	ug/L	0.002	16	52	140	7	Standard
⌈>	**Tb**	**159**		ug/L			165965	159373	2	Standard
⌊	**Pb**	**208**	**0.003**	ug/L	0.000	6	210	454	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV4
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 17:25:41
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27225	28398	4	Standard
⎡>	**Sc**	**45**		ug/L			460122	469913	2	Standard
⎢	**Cr**	**52**	**48.856**	ug/L	0.643	1	8551	631392	1	Standard
⎢	**Cr**	**53**	**49.223**	ug/L	1.281	2	93	72464	2	Standard
⎣	**Mn**	**55**	**49.560**	ug/L	1.224	2	219	920566	1	Standard
⎡>	**Ge**	**72**		ug/L			30494	30063	1	KED
⎢	**Ni**	**60**	**49.867**	ug/L	0.782	1	28	70999	2	KED
⎢	**Ni**	**62**	**50.197**	ug/L	0.689	1	3	11275	1	KED
⎢	**Cu**	**63**	**50.159**	ug/L	0.576	1	26	200413	0	KED
⎢	**Cu**	**65**	**48.899**	ug/L	0.492	1	10	99227	1	KED
⎢	**Zn**	**66**	**51.739**	ug/L	1.386	2	19	25699	2	KED
⎢	**Zn**	**67**	**50.185**	ug/L	0.498	0	3	4065	2	KED
⎣	**As**	**75**	**50.172**	ug/L	0.623	1	2	12145	1	KED
	Y	**89**		ug/L			38927	39969	1	Standard
	Kr	**83**		ug/L			46	45	37	Standard
⎡>	**In-1**	**115**		ug/L			6386	6279	1	KED
⎢	**Cd**	**111**	**49.539**	ug/L	0.842	1	4	11251	0	KED
⎣	**Cd**	**114**	**49.229**	ug/L	0.544	1	13	28533	0	KED
⎡>	**In**	**115**		ug/L			414575	411972	1	Standard
⎢	**Ag**	**107**	**50.177**	ug/L	0.802	1	42	673041	1	Standard
⎢	**Ba**	**135**	**49.679**	ug/L	1.413	2	38	248006	1	Standard
⎣	**Ba**	**137**	**49.119**	ug/L	1.140	2	52	437442	1	Standard
⎡>	**Tb**	**159**		ug/L			165965	171214	1	Standard
⎣	**Pb**	**208**	**49.862**	ug/L	0.645	1	210	4122760	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB4
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 17:32:56
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27225	27717	4	Standard
⌈>	**Sc**	**45**		ug/L			460122	450724	2	Standard
|	**Cr**	**52**	**0.003**	ug/L	0.014	418	8551	8421	4	Standard
|	**Cr**	**53**	**-0.005**	ug/L	0.009	182	93	84	12	Standard
⌊	**Mn**	**55**	**-0.001**	ug/L	0.000	23	219	200	3	Standard
⌈>	**Ge**	**72**		ug/L			30494	29445	3	KED
|	**Ni**	**60**	**0.006**	ug/L	0.005	79	28	35	15	KED
|	**Ni**	**62**	**0.012**	ug/L	0.036	300	3	6	124	KED
|	**Cu**	**63**	**0.001**	ug/L	0.002	144	26	31	23	KED
|	**Cu**	**65**	**0.003**	ug/L	0.005	179	10	15	62	KED
|	**Zn**	**66**	**0.011**	ug/L	0.008	78	19	24	16	KED
|	**Zn**	**67**	**0.002**	ug/L	0.029	1588	3	3	69	KED
⌊	**As**	**75**	**-0.000**	ug/L	0.001	460	2	2	10	KED
	Y	**89**		ug/L			38927	37726	1	Standard
	Kr	**83**		ug/L			46	40	4	Standard
⌈>	**In-1**	**115**		ug/L			6386	6165	2	KED
|	**Cd**	**111**	**-0.004**	ug/L	0.003	78	4	3	17	KED
⌊	**Cd**	**114**	**-0.017**	ug/L	0.002	11	13	3	35	KED
⌈>	**In**	**115**		ug/L			414575	396753	2	Standard
|	**Ag**	**107**	**0.001**	ug/L	0.000	50	42	48	9	Standard
|	**Ba**	**135**	**0.002**	ug/L	0.002	114	38	46	26	Standard
⌊	**Ba**	**137**	**0.004**	ug/L	0.001	13	52	86	5	Standard
⌈>	**Tb**	**159**		ug/L			165965	158887	2	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	54	210	264	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0477-04
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 17:42:07
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_pb only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27225	61757	0	Standard
	Kr	**83**		ug/L			46	46	14	Standard
>	**Tb**	**159**		ug/L			165965	165213	1	Standard
	Pb	**208**	**0.043**	ug/L	0.001	1	210	3630	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0477-08
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 17:43:29
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_pb only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27225	58213	2	Standard
	Kr	**83**		ug/L			46	52	9	Standard
>	**Tb**	**159**		ug/L			165965	164898	0	Standard
	Pb	**208**	**0.131**	ug/L	0.002	1	210	10648	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0477-10
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 17:44:51
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_pb only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27225	58428	1	Standard
	Kr	**83**		ug/L			46	45	11	Standard
>	**Tb**	**159**		ug/L			165965	163874	1	Standard
	Pb	**208**	**0.109**	ug/L	0.003	2	210	8815	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0477-12
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 17:46:12
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_pb only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27225	61012	1	Standard
	Kr	**83**		ug/L			46	47	28	Standard
>	**Tb**	**159**		ug/L			165965	164973	2	Standard
	Pb	**208**	**0.029**	ug/L	0.001	3	210	2478	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0477-18
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 17:47:34
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_pb only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27225	61398	0	Standard
	Kr	**83**		ug/L			46	51	16	Standard
>	**Tb**	**159**		ug/L			165965	165020	0	Standard
	Pb	**208**	**0.197**	ug/L	0.005	2	210	15939	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0477-20
Sample Dil Factor: 2
Comments:
Sample Date/Time: Thursday, May 11, 2023 17:48:56
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_pb only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27225	50771	1	Standard
	Kr	**83**		ug/L			46	48	13	Standard
>	**Tb**	**159**		ug/L			165965	171143	0	Standard
	Pb	**208**	**0.113**	ug/L	0.002	1	210	9556	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0106-DUP2
Sample Dil Factor: 2
Comments:
Sample Date/Time: Thursday, May 11, 2023 17:50:18
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_pb only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27225	49235	1	Standard
	Kr	**83**		ug/L			46	48	43	Standard
>	**Tb**	**159**		ug/L			165965	167068	1	Standard
	Pb	**208**	**0.116**	ug/L	0.001	1	210	9571	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0106-MS2
Sample Dil Factor: 2
Comments:
Sample Date/Time: Thursday, May 11, 2023 17:51:39
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_pb only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27225	49614	2	Standard
	Kr	**83**		ug/L			46	50	9	Standard
>	**Tb**	**159**		ug/L			165965	170031	2	Standard
	Pb	**208**	**13.734**	ug/L	0.344	2	210	1127528	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0106-MSD2
Sample Dil Factor: 2
Comments:
Sample Date/Time: Thursday, May 11, 2023 17:53:01
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_pb only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27225	48805	2	Standard
	Kr	**83**		ug/L			46	50	14	Standard
>	**Tb**	**159**		ug/L			165965	167377	0	Standard
	Pb	**208**	**13.869**	ug/L	0.177	1	210	1121192	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL6
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 17:54:24

TUBE EMPTY

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_pb only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27225	27210	4	Standard
	Kr	**83**		ug/L			46	144	17	Standard
>	**Tb**	**159**		ug/L			165965	327175	4	Standard
	Pb	**208**	**-0.001**	ug/L	0.000	9	210	260	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV5
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 17:55:46
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_pb only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27225	34810	2	Standard
	Kr	**83**		ug/L			46	52	17	Standard
>	**Tb**	**159**		ug/L			165965	161330	1	Standard
	Pb	**208**	**50.918**	ug/L	1.253	2	210	3966283	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB5
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 17:59:52
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_pb only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27225	34296	0	Standard
	Kr	**83**		ug/L			46	49	26	Standard
>	**Tb**	**159**		ug/L			165965	159481	1	Standard
	Pb	**208**	**0.001**	ug/L	0.000	24	210	259	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0477-01
Sample Dil Factor: 5
Comments:
Sample Date/Time: Thursday, May 11, 2023 18:02:23
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_pb only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27225	44018	1	Standard
	Kr	**83**		ug/L			46	46	26	Standard
>	**Tb**	**159**		ug/L			165965	161506	3	Standard
	Pb	**208**	**0.215**	ug/L	0.005	2	210	16953	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0477-07
Sample Dil Factor: 5
Comments:
Sample Date/Time: Thursday, May 11, 2023 18:03:45
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_pb only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27225	44977	1	Standard
	Kr	**83**		ug/L			46	49	3	Standard
>	**Tb**	**159**		ug/L			165965	163185	2	Standard
	Pb	**208**	**0.528**	ug/L	0.010	1	210	41772	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0477-09
Sample Dil Factor: 5
Comments:
Sample Date/Time: Thursday, May 11, 2023 18:05:07
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_pb only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27225	44276	1	Standard
	Kr	**83**		ug/L			46	57	30	Standard
>	**Tb**	**159**		ug/L			165965	165180	0	Standard
	Pb	**208**	**0.532**	ug/L	0.007	1	210	42672	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0480-01
Sample Dil Factor: 5
Comments:
Sample Date/Time: Thursday, May 11, 2023 18:06:29
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_pb only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27225	122185	1	Standard
	Kr	**83**		ug/L			46	67	9	Standard
>	**Tb**	**159**		ug/L			165965	154453	0	Standard
	Pb	**208**	**0.031**	ug/L	0.001	2	210	2487	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL7
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 18:08:15
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_pb only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27225	38187	0	Standard
	Kr	**83**		ug/L			46	53	19	Standard
>	**Tb**	**159**		ug/L			165965	155231	2	Standard
	Pb	**208**	**-0.000**	ug/L	0.000	290	210	190	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0477-02
Sample Dil Factor: 2
Comments:
Sample Date/Time: Thursday, May 11, 2023 18:09:37
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_pb only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27225	49595	1	Standard
	Kr	**83**		ug/L			46	44	8	Standard
>	**Tb**	**159**		ug/L			165965	163100	0	Standard
	Pb	**208**	**0.240**	ug/L	0.001	0	210	19113	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0477-03
Sample Dil Factor: 2
Comments:
Sample Date/Time: Thursday, May 11, 2023 18:10:59
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_pb only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27225	51006	1	Standard
	Kr	**83**		ug/L			46	44	6	Standard
>	**Tb**	**159**		ug/L			165965	164539	0	Standard
	Pb	**208**	**0.146**	ug/L	0.002	1	210	11808	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0477-06
Sample Dil Factor: 2
Comments:
Sample Date/Time: Thursday, May 11, 2023 18:12:21
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_pb only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27225	50541	0	Standard
	Kr	**83**		ug/L			46	42	6	Standard
>	**Tb**	**159**		ug/L			165965	165015	2	Standard
	Pb	**208**	**0.314**	ug/L	0.005	1	210	25260	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0477-11
Sample Dil Factor: 2
Comments:
Sample Date/Time: Thursday, May 11, 2023 18:13:43
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_pb only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27225	49047	2	Standard
	Kr	**83**		ug/L			46	53	25	Standard
>	**Tb**	**159**		ug/L			165965	163377	0	Standard
	Pb	**208**	**0.285**	ug/L	0.003	1	210	22689	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL8
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 18:15:05
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_pb only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27225	39344	0	Standard
	Kr	**83**		ug/L			46	51	14	Standard
⌈>	**Tb**	**159**		ug/L			165965	155831	1	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	3427	210	198	12	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV6
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 18:16:27
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_pb only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27225	36226	0	Standard
	Kr	**83**		ug/L			46	58	6	Standard
⌈>	**Tb**	**159**		ug/L			165965	164187	0	Standard
⌊	**Pb**	**208**	**50.229**	ug/L	0.094	0	210	3982976	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB6
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 18:20:33
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_pb only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27225	34920	2	Standard
	Kr	**83**		ug/L			46	49	10	Standard
⌈>	**Tb**	**159**		ug/L			165965	158492	1	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	129	210	228	16	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0477-13
Sample Dil Factor: 2
Comments:
Sample Date/Time: Thursday, May 11, 2023 18:24:04
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_pb only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27225	51951	0	Standard
	Kr	**83**		ug/L			46	52	12	Standard
>	**Tb**	**159**		ug/L			165965	160838	0	Standard
	Pb	**208**	**0.115**	ug/L	0.000	0	210	9164	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0477-14
Sample Dil Factor: 2
Comments:
Sample Date/Time: Thursday, May 11, 2023 18:25:26
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_pb only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27225	53936	0	Standard
	Kr	**83**		ug/L			46	53	22	Standard
>	**Tb**	**159**		ug/L			165965	160287	1	Standard
	Pb	**208**	**0.483**	ug/L	0.007	1	210	37574	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0477-16
Sample Dil Factor: 2
Comments:
Sample Date/Time: Thursday, May 11, 2023 18:26:47
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_pb only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27225	56772	2	Standard
	Kr	**83**		ug/L			46	48	8	Standard
>	**Tb**	**159**		ug/L			165965	163973	0	Standard
	Pb	**208**	**0.145**	ug/L	0.004	2	210	11656	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0477-15
Sample Dil Factor: 10
Comments:
Sample Date/Time: Thursday, May 11, 2023 18:28:09
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_pb only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27225	42521	0	Standard
	Kr	**83**		ug/L			46	53	16	Standard
>	**Tb**	**159**		ug/L			165965	161089	0	Standard
	Pb	**208**	**0.551**	ug/L	0.003	0	210	43096	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL9
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 18:29:33
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27225	33768	5	Standard
⌈>	**Sc**	**45**		ug/L			460122	479753	3	Standard
|	**Cr**	**52**	**0.041**	ug/L	0.014	35	8551	9448	2	Standard
|	**Cr**	**53**	**0.006**	ug/L	0.009	149	93	106	16	Standard
⌊	**Mn**	**55**	**-0.001**	ug/L	0.000	25	219	206	4	Standard
⌈>	**Ge**	**72**		ug/L			30494	30106	2	KED
|	**Ni**	**60**	**0.011**	ug/L	0.003	30	28	43	11	KED
|	**Ni**	**62**	**0.012**	ug/L	0.028	237	3	6	96	KED
|	**Cu**	**63**	**0.002**	ug/L	0.002	101	26	33	23	KED
|	**Cu**	**65**	**0.002**	ug/L	0.002	118	10	13	28	KED
|	**Zn**	**66**	**0.035**	ug/L	0.003	9	19	36	2	KED
|	**Zn**	**67**	**0.040**	ug/L	0.015	37	3	6	17	KED
⌊	**As**	**75**	**-0.006**	ug/L	0.009	154	2	1	145	KED
	Y	**89**		ug/L			38927	40722	4	Standard
	Kr	**83**		ug/L			46	36	13	Standard
⌈>	**In-1**	**115**		ug/L			6386	7035	3	KED
|	**Cd**	**111**	**-0.005**	ug/L	0.002	39	4	3	17	KED
⌊	**Cd**	**114**	**-0.015**	ug/L	0.005	30	13	5	58	KED
⌈>	**In**	**115**		ug/L			414575	426936	2	Standard
|	**Ag**	**107**	**-0.002**	ug/L	0.001	38	42	20	47	Standard
|	**Ba**	**135**	**0.004**	ug/L	0.002	61	38	58	21	Standard
⌊	**Ba**	**137**	**0.003**	ug/L	0.002	60	52	85	23	Standard
⌈>	**Tb**	**159**		ug/L			165965	162029	1	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	24	210	219	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0702-04
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 18:34:36
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27225	50071	6	Standard
>	Sc	45		ug/L			460122	559108	3	Standard
	Cr	52	2.801	ug/L	0.106	3	8551	52852	2	Standard
	Cr	53	5.604	ug/L	0.159	2	93	9911	0	Standard
	Mn	55	89.383	ug/L	2.391	2	219	1974612	1	Standard
>	Ge	72		ug/L			30494	29308	1	KED
	Ni	60	4.352	ug/L	0.054	1	28	6064	1	KED
	Ni	62	4.366	ug/L	0.070	1	3	959	1	KED
	Cu	63	2.289	ug/L	0.036	1	26	8941	1	KED
	Cu	65	2.249	ug/L	0.100	4	10	4457	3	KED
	Zn	66	3.039	ug/L	0.133	4	19	1489	4	KED
	Zn	67	3.825	ug/L	0.302	7	3	304	7	KED
	As	75	10.055	ug/L	0.105	1	2	2374	0	KED
	Y	89		ug/L			38927	89604	2	Standard
	Kr	83		ug/L			46	51	9	Standard
>	In-1	115		ug/L			6386	6158	1	KED
	Cd	111	0.002	ug/L	0.017	872	4	4	86	KED
	Cd	114	-0.004	ug/L	0.009	233	13	10	49	KED
>	In	115		ug/L			414575	377047	1	Standard
	Ag	107	0.011	ug/L	0.002	21	42	168	14	Standard
	Ba	135	15.590	ug/L	0.479	3	38	71246	1	Standard
	Ba	137	15.628	ug/L	0.167	1	52	127422	0	Standard
>	Tb	159		ug/L			165965	170609	1	Standard
	Pb	208	0.223	ug/L	0.005	2	210	18620	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0342-DUP1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 18:40:05
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27225	51084	4	Standard
>	Sc	45		ug/L			460122	568350	2	Standard
	Cr	52	2.833	ug/L	0.035	1	8551	54242	2	Standard
	Cr	53	5.610	ug/L	0.098	1	93	10090	2	Standard
	Mn	55	89.613	ug/L	3.327	3	219	2014004	5	Standard
>	Ge	72		ug/L			30494	28802	0	KED
	Ni	60	4.291	ug/L	0.110	2	28	5876	2	KED
	Ni	62	4.641	ug/L	0.202	4	3	1001	3	KED
	Cu	63	2.274	ug/L	0.042	1	26	8728	1	KED
	Cu	65	2.249	ug/L	0.100	4	10	4381	4	KED
	Zn	66	2.824	ug/L	0.077	2	19	1361	2	KED
	Zn	67	3.785	ug/L	0.579	15	3	296	15	KED
	As	75	10.016	ug/L	0.092	0	2	2324	0	KED
	Y	89		ug/L			38927	89267	1	Standard
	Kr	83		ug/L			46	47	8	Standard
>	In-1	115		ug/L			6386	5985	1	KED
	Cd	111	0.003	ug/L	0.009	346	4	4	44	KED
	Cd	114	-0.007	ug/L	0.003	51	13	8	22	KED
>	In	115		ug/L			414575	388034	3	Standard
	Ag	107	0.011	ug/L	0.001	6	42	176	8	Standard
	Ba	135	15.387	ug/L	0.337	2	38	72354	1	Standard
	Ba	137	15.411	ug/L	0.319	2	52	129265	1	Standard
>	Tb	159		ug/L			165965	172113	0	Standard
	Pb	208	0.238	ug/L	0.003	1	210	20000	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0342-MS1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 18:45:00
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27225	51186	5	Standard
>	Sc	45		ug/L			460122	570416	2	Standard
	Cr	52	21.874	ug/L	0.296	1	8551	349015	1	Standard
	Cr	53	24.410	ug/L	0.481	1	93	43677	0	Standard
	Mn	55	112.129	ug/L	1.042	0	219	2528412	1	Standard
>	Ge	72		ug/L			30494	29271	0	KED
	Ni	60	27.840	ug/L	0.280	1	28	38602	0	KED
	Ni	62	27.779	ug/L	0.122	0	3	6076	0	KED
	Cu	63	25.033	ug/L	0.213	0	26	97401	0	KED
	Cu	65	25.046	ug/L	0.184	0	10	49488	0	KED
	Zn	66	72.190	ug/L	1.687	2	19	34903	1	KED
	Zn	67	69.774	ug/L	2.572	3	3	5500	3	KED
	As	75	33.963	ug/L	0.148	0	2	8005	0	KED
	Y	89		ug/L			38927	86850	1	Standard
	Kr	83		ug/L			46	47	10	Standard
>	In-1	115		ug/L			6386	5917	3	KED
	Cd	111	22.714	ug/L	1.260	5	4	4858	2	KED
	Cd	114	22.672	ug/L	0.714	3	13	12384	2	KED
>	In	115		ug/L			414575	385596	1	Standard
	Ag	107	21.779	ug/L	0.668	3	42	273430	2	Standard
	Ba	135	41.119	ug/L	0.845	2	38	192158	1	Standard
	Ba	137	40.806	ug/L	0.502	1	52	340176	0	Standard
>	Tb	159		ug/L			165965	173214	0	Standard
	Pb	208	21.567	ug/L	0.124	0	210	1804350	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0342-MSD1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 18:50:55
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27225	50121	5	Standard
>	Sc	45		ug/L			460122	566649	2	Standard
	Cr	52	21.819	ug/L	0.163	0	8551	345942	3	Standard
	Cr	53	24.581	ug/L	0.115	0	93	43704	2	Standard
	Mn	55	110.088	ug/L	0.947	0	219	2466602	3	Standard
>	Ge	72		ug/L			30494	28743	0	KED
	Ni	60	27.761	ug/L	0.348	1	28	37800	1	KED
	Ni	62	28.514	ug/L	0.618	2	3	6125	1	KED
	Cu	63	25.533	ug/L	0.214	0	26	97557	1	KED
	Cu	65	25.563	ug/L	0.514	2	10	49604	2	KED
	Zn	66	73.567	ug/L	1.366	1	19	34930	1	KED
	Zn	67	71.696	ug/L	1.628	2	3	5550	2	KED
	As	75	34.650	ug/L	0.590	1	2	8020	1	KED
	Y	89		ug/L			38927	87094	1	Standard
	Kr	83		ug/L			46	47	4	Standard
>	In-1	115		ug/L			6386	5969	3	KED
	Cd	111	22.427	ug/L	0.921	4	4	4840	0	KED
	Cd	114	22.421	ug/L	0.824	3	13	12352	1	KED
>	In	115		ug/L			414575	377052	2	Standard
	Ag	107	21.519	ug/L	0.480	2	42	264134	1	Standard
	Ba	135	41.712	ug/L	0.827	1	38	190601	2	Standard
	Ba	137	41.496	ug/L	0.365	0	52	338248	1	Standard
>	Tb	159		ug/L			165965	171228	0	Standard
	Pb	208	21.433	ug/L	0.437	2	210	1772521	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLA
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 18:55:21
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27225	32104	2	Standard
⌈>	**Sc**	**45**		ug/L			460122	484185	0	Standard
|	**Cr**	**52**	**0.052**	ug/L	0.019	37	8551	9682	2	Standard
|	**Cr**	**53**	**0.125**	ug/L	0.020	16	93	287	10	Standard
⌊	**Mn**	**55**	**0.003**	ug/L	0.001	20	219	288	4	Standard
⌈>	**Ge**	**72**		ug/L			30494	31140	1	KED
|	**Ni**	**60**	**0.002**	ug/L	0.008	354	28	32	35	KED
|	**Ni**	**62**	**0.008**	ug/L	0.022	275	3	5	88	KED
|	**Cu**	**63**	**0.004**	ug/L	0.000	10	26	44	4	KED
|	**Cu**	**65**	**0.005**	ug/L	0.002	32	10	20	15	KED
|	**Zn**	**66**	**0.050**	ug/L	0.004	8	19	45	4	KED
|	**Zn**	**67**	**0.007**	ug/L	0.022	337	3	3	50	KED
⌊	**As**	**75**	**-0.005**	ug/L	0.001	23	2	1	15	KED
	Y	**89**		ug/L			38927	38904	1	Standard
	Kr	**83**		ug/L			46	44	25	Standard
⌈>	**In-1**	**115**		ug/L			6386	6374	1	KED
|	**Cd**	**111**	**-0.008**	ug/L	0.002	27	4	2	24	KED
⌊	**Cd**	**114**	**-0.018**	ug/L	0.002	11	13	2	47	KED
⌈>	**In**	**115**		ug/L			414575	414400	0	Standard
|	**Ag**	**107**	**-0.000**	ug/L	0.000	199	42	39	16	Standard
|	**Ba**	**135**	**0.005**	ug/L	0.002	36	38	62	13	Standard
⌊	**Ba**	**137**	**0.005**	ug/L	0.000	5	52	99	3	Standard
⌈>	**Tb**	**159**		ug/L			165965	170024	1	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	22	210	321	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV7
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 18:59:52
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27225	29882	5	Standard
⌈>	**Sc**	**45**		ug/L			460122	492719	1	Standard
|	**Cr**	**52**	**46.862**	ug/L	0.898	1	8551	635602	3	Standard
|	**Cr**	**53**	**47.446**	ug/L	0.957	2	93	73242	0	Standard
⌊	**Mn**	**55**	**47.412**	ug/L	0.375	0	219	923706	1	Standard
⌈>	**Ge**	**72**		ug/L			30494	31679	0	KED
|	**Ni**	**60**	**49.451**	ug/L	0.657	1	28	74185	0	KED
|	**Ni**	**62**	**50.710**	ug/L	1.000	1	3	12004	2	KED
|	**Cu**	**63**	**50.219**	ug/L	0.881	1	26	211426	0	KED
|	**Cu**	**65**	**49.462**	ug/L	0.399	0	10	105774	1	KED
|	**Zn**	**66**	**51.028**	ug/L	0.143	0	19	26710	1	KED
|	**Zn**	**67**	**51.839**	ug/L	0.935	1	3	4424	2	KED
⌊	**As**	**75**	**49.952**	ug/L	0.538	1	2	12741	0	KED
	Y	**89**		ug/L			38927	39628	2	Standard
	Kr	**83**		ug/L			46	42	9	Standard
⌈>	**In-1**	**115**		ug/L			6386	6648	0	KED
|	**Cd**	**111**	**49.226**	ug/L	1.079	2	4	11839	1	KED
⌊	**Cd**	**114**	**49.147**	ug/L	0.723	1	13	30162	0	KED
⌈>	**In**	**115**		ug/L			414575	414854	2	Standard
|	**Ag**	**107**	**48.728**	ug/L	1.030	2	42	657999	1	Standard
|	**Ba**	**135**	**49.989**	ug/L	0.737	1	38	251298	1	Standard
⌊	**Ba**	**137**	**49.163**	ug/L	1.103	2	52	440803	0	Standard
⌈>	**Tb**	**159**		ug/L			165965	172287	1	Standard
⌊	**Pb**	**208**	**49.027**	ug/L	0.734	1	210	4078768	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB7
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 19:07:08
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27225	44107	2	Standard
⌈>	**Sc**	**45**		ug/L			460122	467848	1	Standard
|	**Cr**	**52**	**0.056**	ug/L	0.025	44	8551	9400	1	Standard
|	**Cr**	**53**	**0.022**	ug/L	0.020	92	93	126	21	Standard
⌊	**Mn**	**55**	**0.009**	ug/L	0.013	149	219	383	61	Standard
⌈>	**Ge**	**72**		ug/L			30494	30626	1	KED
|	**Ni**	**60**	**0.009**	ug/L	0.002	19	28	41	4	KED
|	**Ni**	**62**	**0.042**	ug/L	0.017	41	3	13	28	KED
|	**Cu**	**63**	**0.003**	ug/L	0.003	87	26	39	26	KED
|	**Cu**	**65**	**0.007**	ug/L	0.002	31	10	24	16	KED
|	**Zn**	**66**	**0.020**	ug/L	0.005	25	19	29	9	KED
|	**Zn**	**67**	**0.023**	ug/L	0.059	256	3	5	94	KED
⌊	**As**	**75**	**0.004**	ug/L	0.005	127	2	3	33	KED
	Y	**89**		ug/L			38927	37362	2	Standard
	Kr	**83**		ug/L			46	31	27	Standard
⌈>	**In-1**	**115**		ug/L			6386	6407	3	KED
|	**Cd**	**111**	**-0.012**	ug/L	0.002	17	4	1	43	KED
⌊	**Cd**	**114**	**-0.019**	ug/L	0.003	17	13	1	100	KED
⌈>	**In**	**115**		ug/L			414575	406141	1	Standard
|	**Ag**	**107**	**0.010**	ug/L	0.015	155	42	172	116	Standard
|	**Ba**	**135**	**0.014**	ug/L	0.019	129	38	107	83	Standard
⌊	**Ba**	**137**	**0.014**	ug/L	0.017	117	52	173	82	Standard
⌈>	**Tb**	**159**		ug/L			165965	163351	3	Standard
⌊	**Pb**	**208**	**0.011**	ug/L	0.016	144	210	1026	113	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 19:14:00
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				35375	4	Standard
>	**Sc**	**45**		ug/L				473417	1	Standard
	Cr	**52**		ug/L				9091	2	Standard
	Cr	**53**		ug/L				128	3	Standard
	Mn	**55**		ug/L				216	3	Standard
>	**Ge**	**72**		ug/L				31041	1	KED
	Ni	**60**		ug/L				38	41	KED
	Ni	**62**		ug/L				3	50	KED
	Cu	**63**		ug/L				33	3	KED
	Cu	**65**		ug/L				13	78	KED
	Zn	**66**		ug/L				24	7	KED
	Zn	**67**		ug/L				5	141	KED
	As	**75**		ug/L				2	52	KED
	Y	**89**		ug/L				39379	3	Standard
	Kr	**83**		ug/L				33	20	Standard
>	**In-1**	**115**		ug/L				6479	2	KED
	Cd	**111**		ug/L				0	173	KED
	Cd	**114**		ug/L				3	50	KED
>	**In**	**115**		ug/L				411466	2	Standard
	Ag	**107**		ug/L				26	25	Standard
	Ba	**135**		ug/L				57	20	Standard
	Ba	**137**		ug/L				109	19	Standard
>	**Tb**	**159**		ug/L				168748	1	Standard
	Pb	**208**		ug/L				245	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV8
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 19:18:32
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35375	31956	3	Standard
⌈>	**Sc**	**45**		ug/L			473417	483579	1	Standard
|	**Cr**	**52**	**48.033**	ug/L	1.112	2	9091	639308	1	Standard
|	**Cr**	**53**	**48.743**	ug/L	0.741	1	128	73885	0	Standard
⌊	**Mn**	**55**	**48.910**	ug/L	0.430	0	216	935147	1	Standard
⌈>	**Ge**	**72**		ug/L			31041	31531	2	KED
|	**Ni**	**60**	**48.774**	ug/L	2.327	4	38	72774	1	KED
|	**Ni**	**62**	**49.943**	ug/L	0.902	1	3	11762	1	KED
|	**Cu**	**63**	**49.777**	ug/L	1.894	3	33	208463	0	KED
|	**Cu**	**65**	**48.767**	ug/L	1.443	2	13	103739	0	KED
|	**Zn**	**66**	**50.712**	ug/L	1.224	2	24	26415	1	KED
|	**Zn**	**67**	**51.263**	ug/L	0.826	1	5	4356	3	KED
⌊	**As**	**75**	**49.678**	ug/L	1.461	2	2	12605	0	KED
	Y	**89**		ug/L			39379	39569	1	Standard
	Kr	**83**		ug/L			33	34	25	Standard
⌈>	**In-1**	**115**		ug/L			6479	6461	1	KED
|	**Cd**	**111**	**49.132**	ug/L	0.667	1	0	11482	2	KED
⌊	**Cd**	**114**	**48.849**	ug/L	0.955	1	3	29126	2	KED
⌈>	**In**	**115**		ug/L			411466	414070	2	Standard
|	**Ag**	**107**	**49.450**	ug/L	1.680	3	26	666438	2	Standard
|	**Ba**	**135**	**49.266**	ug/L	1.389	2	57	247159	0	Standard
⌊	**Ba**	**137**	**49.289**	ug/L	1.165	2	109	441153	0	Standard
⌈>	**Tb**	**159**		ug/L			168748	170066	1	Standard
⌊	**Pb**	**208**	**49.517**	ug/L	0.438	0	245	4066889	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB8
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 19:25:48
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35375	30742	2	Standard
⌈>	**Sc**	**45**		ug/L			473417	484633	4	Standard
|	**Cr**	**52**	**-0.019**	ug/L	0.032	173	9091	9049	1	Standard
|	**Cr**	**53**	**-0.016**	ug/L	0.017	102	128	106	19	Standard
⌊	**Mn**	**55**	**0.008**	ug/L	0.014	178	216	363	67	Standard
⌈>	**Ge**	**72**		ug/L			31041	31356	0	KED
|	**Ni**	**60**	**-0.004**	ug/L	0.011	291	38	33	46	KED
|	**Ni**	**62**	**0.035**	ug/L	0.013	36	3	12	24	KED
|	**Cu**	**63**	**0.001**	ug/L	0.002	267	33	36	20	KED
|	**Cu**	**65**	**-0.001**	ug/L	0.002	192	13	11	44	KED
|	**Zn**	**66**	**-0.008**	ug/L	0.003	44	24	20	9	KED
|	**Zn**	**67**	**-0.008**	ug/L	0.047	590	5	4	89	KED
⌊	**As**	**75**	**0.003**	ug/L	0.004	130	2	3	31	KED
	Y	**89**		ug/L			39379	40092	3	Standard
	Kr	**83**		ug/L			33	52	21	Standard
⌈>	**In-1**	**115**		ug/L			6479	6545	2	KED
|	**Cd**	**111**	**0.003**	ug/L	0.004	149	0	0	100	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.003	271	3	3	71	KED
⌈>	**In**	**115**		ug/L			411466	418771	3	Standard
|	**Ag**	**107**	**0.008**	ug/L	0.012	139	26	137	111	Standard
|	**Ba**	**135**	**0.007**	ug/L	0.013	191	57	92	69	Standard
⌊	**Ba**	**137**	**0.005**	ug/L	0.013	257	109	154	70	Standard
⌈>	**Tb**	**159**		ug/L			168748	167031	2	Standard
⌊	**Pb**	**208**	**0.010**	ug/L	0.016	161	245	1004	121	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0171-01
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 19:33:25

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_mn only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	**13**		ug/L			35375	40750	2	Standard
> **Sc**	**45**		ug/L			473417	593182	1	Standard
Mn	**55**	**83.233**	ug/L	1.216	1	216	1952262	3	Standard
Kr	**83**		ug/L			33	43	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0171-02
Sample Dil Factor: 20
DEL
Comments:
Sample Date/Time: Thursday, May 11, 2023 19:35:51
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_mn only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35375	42093	1	Standard
>	**Sc**	**45**		ug/L			473417	615694	3	Standard
	Mn	**55**	**78.026**	ug/L	0.148	0	216	1899382	3	Standard
	Kr	**83**		ug/L			33	39	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0171-10
Sample Dil Factor: 20
DEL
Comments:
Sample Date/Time: Thursday, May 11, 2023 19:37:13
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_mn only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35375	43142	3	Standard
>	**Sc**	**45**		ug/L			473417	601761	2	Standard
	Mn	**55**	**232.522**	ug/L	2.348	1	216	5531685	3	Standard
	Kr	**83**		ug/L			33	54	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0171-11
Sample Dil Factor: 100
Comments:
Sample Date/Time: Thursday, May 11, 2023 19:38:35

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_mn only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35375	39783	0	Standard
>	**Sc**	**45**		ug/L			473417	599154	0	Standard
	Mn	**55**	**79.755**	ug/L	2.106	2	216	1889365	3	Standard
	Kr	**83**		ug/L			33	48	29	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0171-12
Sample Dil Factor: 100
Comments:
Sample Date/Time: Thursday, May 11, 2023 19:39:56

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_mn only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	**13**		ug/L			35375	40719	0	Standard
> **Sc**	**45**		ug/L			473417	604640	2	Standard
Mn	**55**	**76.016**	ug/L	1.025	1	216	1817530	3	Standard
Kr	**83**		ug/L			33	45	31	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0171-06

Sample Dil Factor: 50

DEL

Comments:

Sample Date/Time: Thursday, May 11, 2023 19:41:18

Number of Replicates: 3

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_mn only.mth

Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun

Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac

Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35375	40463	2	Standard
>	**Sc**	**45**		ug/L			473417	603703	4	Standard
	Mn	**55**	**56.639**	ug/L	1.334	2	216	1351242	3	Standard
	Kr	**83**		ug/L			33	48	33	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLB
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 19:42:52
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_mn only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35375	40240	2	Standard
⌈>	**Sc**	**45**		ug/L			473417	591422	1	Standard
⌊	**Mn**	**55**	**0.004**	ug/L	0.001	27	216	365	5	Standard
	Kr	**83**		ug/L			33	42	41	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV9
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 19:44:45
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_mn only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35375	36689	1	Standard
>	**Sc**	**45**		ug/L			473417	610131	2	Standard
	Mn	**55**	**45.712**	ug/L	0.619	1	216	1103017	3	Standard
	Kr	**83**		ug/L			33	55	27	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB9
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 19:48:51
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_mn only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35375	35587	0	Standard
⌈>	**Sc**	**45**		ug/L			473417	576301	3	Standard
⌊	**Mn**	**55**	**0.001**	ug/L	0.001	46	216	287	2	Standard
	Kr	**83**		ug/L			33	41	25	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 19:51:06
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				30125	1	Standard
>	**Sc**	**45**		ug/L				488451	2	Standard
	Cr	**52**		ug/L				8929	3	Standard
	Cr	**53**		ug/L				95	11	Standard
	Mn	**55**		ug/L				208	10	Standard
>	**Ge**	**72**		ug/L				31094	1	KED
	Ni	**60**		ug/L				36	9	KED
	Ni	**62**		ug/L				5	78	KED
	Cu	**63**		ug/L				24	13	KED
	Cu	**65**		ug/L				18	36	KED
	Zn	**66**		ug/L				23	23	KED
	Zn	**67**		ug/L				4	49	KED
	As	**75**		ug/L				2	68	KED
	Y	**89**		ug/L				40140	3	Standard
	Kr	**83**		ug/L				40	38	Standard
>	**In-1**	**115**		ug/L				6950	2	KED
	Cd	**111**		ug/L				3	56	KED
	Cd	**114**		ug/L				0	180	KED
>	**In**	**115**		ug/L				429431	3	Standard
	Ag	**107**		ug/L				24	13	Standard
	Ba	**135**		ug/L				46	4	Standard
	Ba	**137**		ug/L				85	12	Standard
>	**Tb**	**159**		ug/L				166755	2	Standard
	Pb	**208**		ug/L				213	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVA
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 19:55:38
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30125	31068	6	Standard
⌈>	**Sc**	**45**		ug/L			488451	496953	2	Standard
|	**Cr**	**52**	**47.887**	ug/L	0.305	0	8929	654584	1	Standard
|	**Cr**	**53**	**48.282**	ug/L	0.759	1	95	75177	2	Standard
⌊	**Mn**	**55**	**48.329**	ug/L	0.366	0	208	949563	1	Standard
⌈>	**Ge**	**72**		ug/L			31094	31335	1	KED
|	**Ni**	**60**	**49.504**	ug/L	1.097	2	36	73453	0	KED
|	**Ni**	**62**	**50.840**	ug/L	1.958	3	5	11900	2	KED
|	**Cu**	**63**	**49.902**	ug/L	1.103	2	24	207822	2	KED
|	**Cu**	**65**	**49.025**	ug/L	0.755	1	18	103691	0	KED
|	**Zn**	**66**	**51.257**	ug/L	1.113	2	23	26540	2	KED
|	**Zn**	**67**	**51.830**	ug/L	2.221	4	4	4375	3	KED
⌊	**As**	**75**	**50.761**	ug/L	0.849	1	2	12805	0	KED
	Y	**89**		ug/L			40140	41623	2	Standard
	Kr	**83**		ug/L			40	43	15	Standard
⌈>	**In-1**	**115**		ug/L			6950	6586	1	KED
|	**Cd**	**111**	**48.710**	ug/L	0.857	1	3	11605	0	KED
⌊	**Cd**	**114**	**49.769**	ug/L	0.997	2	0	30244	0	KED
⌈>	**In**	**115**		ug/L			429431	422607	0	Standard
|	**Ag**	**107**	**50.288**	ug/L	1.632	3	24	691847	2	Standard
|	**Ba**	**135**	**48.585**	ug/L	0.946	1	46	248842	1	Standard
⌊	**Ba**	**137**	**48.718**	ug/L	0.733	1	85	445176	1	Standard
⌈>	**Tb**	**159**		ug/L			166755	174363	1	Standard
⌊	**Pb**	**208**	**48.985**	ug/L	1.030	2	213	4124375	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBA
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 20:00:09
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30125	29186	4	Standard
⌈>	**Sc**	**45**		ug/L			488451	490772	1	Standard
|	**Cr**	**52**	**0.009**	ug/L	0.042	453	8929	9089	4	Standard
|	**Cr**	**53**	**0.023**	ug/L	0.036	157	95	130	41	Standard
⌊	**Mn**	**55**	**0.019**	ug/L	0.031	161	208	581	102	Standard
⌈>	**Ge**	**72**		ug/L			31094	31384	2	KED
|	**Ni**	**60**	**-0.004**	ug/L	0.004	106	36	31	18	KED
|	**Ni**	**62**	**-0.000**	ug/L	0.012	3657	5	5	57	KED
|	**Cu**	**63**	**0.003**	ug/L	0.002	59	24	38	20	KED
|	**Cu**	**65**	**0.001**	ug/L	0.002	433	18	19	24	KED
|	**Zn**	**66**	**0.010**	ug/L	0.020	208	23	28	35	KED
|	**Zn**	**67**	**0.022**	ug/L	0.034	155	4	6	45	KED
⌊	**As**	**75**	**0.003**	ug/L	0.003	90	2	3	24	KED
	Y	**89**		ug/L			40140	40666	1	Standard
	Kr	**83**		ug/L			40	40	25	Standard
⌈>	**In-1**	**115**		ug/L			6950	6471	0	KED
|	**Cd**	**111**	**0.001**	ug/L	0.002	220	3	3	15	KED
⌊	**Cd**	**114**	**0.008**	ug/L	0.004	50	0	5	43	KED
⌈>	**In**	**115**		ug/L			429431	430476	1	Standard
|	**Ag**	**107**	**0.022**	ug/L	0.034	155	24	335	144	Standard
|	**Ba**	**135**	**0.015**	ug/L	0.027	179	46	126	113	Standard
⌊	**Ba**	**137**	**0.014**	ug/L	0.023	164	85	219	101	Standard
⌈>	**Tb**	**159**		ug/L			166755	169298	1	Standard
⌊	**Pb**	**208**	**0.017**	ug/L	0.027	157	213	1621	137	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0636-01
Sample Dil Factor: 10
Comments:
Sample Date/Time: Thursday, May 11, 2023 20:07:00
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30125	37533	4	Standard
⌈>	**Sc**	**45**		ug/L			488451	529062	2	Standard
|	**Cr**	**52**	**0.541**	ug/L	0.003	0	8929	17434	2	Standard
|	**Cr**	**53**	**0.601**	ug/L	0.008	1	95	1098	1	Standard
⌊	**Mn**	**55**	**88.376**	ug/L	0.740	0	208	1848790	3	Standard
⌈>	**Ge**	**72**		ug/L			31094	31864	2	KED
|	**Ni**	**60**	**0.988**	ug/L	0.024	2	36	1526	2	KED
|	**Ni**	**62**	**1.021**	ug/L	0.115	11	5	247	8	KED
|	**Cu**	**63**	**1.647**	ug/L	0.021	1	24	6997	1	KED
|	**Cu**	**65**	**1.686**	ug/L	0.054	3	18	3643	1	KED
|	**Zn**	**66**	**4.041**	ug/L	0.149	3	23	2151	6	KED
|	**Zn**	**67**	**3.780**	ug/L	0.373	9	4	328	7	KED
⌊	**As**	**75**	**0.565**	ug/L	0.012	2	2	147	4	KED
	Y	**89**		ug/L			40140	56560	3	Standard
	Kr	**83**		ug/L			40	39	14	Standard
⌈>	**In-1**	**115**		ug/L			6950	6868	0	KED
|	**Cd**	**111**	**0.005**	ug/L	0.015	289	3	4	80	KED
⌊	**Cd**	**114**	**0.012**	ug/L	0.004	30	0	8	28	KED
⌈>	**In**	**115**		ug/L			429431	448110	1	Standard
|	**Ag**	**107**	**0.004**	ug/L	0.001	29	24	85	19	Standard
|	**Ba**	**135**	**2.679**	ug/L	0.043	1	46	14596	2	Standard
⌊	**Ba**	**137**	**2.633**	ug/L	0.026	0	85	25592	1	Standard
⌈>	**Tb**	**159**		ug/L			166755	178597	0	Standard
⌊	**Pb**	**208**	**0.679**	ug/L	0.008	1	213	58760	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0298-DUP2
Sample Dil Factor: 10
Comments:
Sample Date/Time: Thursday, May 11, 2023 20:11:31
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			30125	37041	3	Standard
⌈>	Sc	45		ug/L			488451	517410	0	Standard
|	Cr	52	0.555	ug/L	0.014	2	8929	17251	1	Standard
|	Cr	53	0.620	ug/L	0.016	2	95	1105	2	Standard
⌊	Mn	55	90.495	ug/L	1.649	1	208	1851260	2	Standard
⌈>	Ge	72		ug/L			31094	31715	1	KED
|	Ni	60	0.992	ug/L	0.041	4	36	1525	2	KED
|	Ni	62	1.008	ug/L	0.067	6	5	243	5	KED
|	Cu	63	1.724	ug/L	0.022	1	24	7293	2	KED
|	Cu	65	1.698	ug/L	0.014	0	18	3653	1	KED
|	Zn	66	4.083	ug/L	0.167	4	23	2161	2	KED
|	Zn	67	3.985	ug/L	0.154	3	4	344	3	KED
⌊	As	75	0.571	ug/L	0.021	3	2	147	2	KED
	Y	89		ug/L			40140	56345	3	Standard
	Kr	83		ug/L			40	34	11	Standard
⌈>	In-1	115		ug/L			6950	6841	0	KED
|	Cd	111	-0.004	ug/L	0.006	159	3	2	57	KED
⌊	Cd	114	0.007	ug/L	0.001	21	0	4	19	KED
⌈>	In	115		ug/L			429431	437724	2	Standard
|	Ag	107	0.002	ug/L	0.001	47	24	54	24	Standard
|	Ba	135	2.795	ug/L	0.102	3	46	14868	1	Standard
⌊	Ba	137	2.763	ug/L	0.058	2	85	26229	0	Standard
⌈>	Tb	159		ug/L			166755	175911	0	Standard
⌊	Pb	208	0.692	ug/L	0.006	0	213	59009	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0298-MS2
Sample Dil Factor: 10
Comments:
Sample Date/Time: Thursday, May 11, 2023 20:16:02
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			30125	37834	4	Standard
⌈>	Sc	45		ug/L			488451	509796	3	Standard
|	Cr	52	2.928	ug/L	0.050	1	8929	49799	3	Standard
|	Cr	53	3.034	ug/L	0.078	2	95	4936	1	Standard
⌊	Mn	55	95.427	ug/L	2.392	2	208	1922397	2	Standard
⌈>	Ge	72		ug/L			31094	32404	0	KED
|	Ni	60	3.516	ug/L	0.048	1	36	5431	1	KED
|	Ni	62	3.710	ug/L	0.182	4	5	902	3	KED
|	Cu	63	4.318	ug/L	0.048	1	24	18621	0	KED
|	Cu	65	4.255	ug/L	0.153	3	18	9322	2	KED
|	Zn	66	12.225	ug/L	0.290	2	23	6564	1	KED
|	Zn	67	11.985	ug/L	0.075	0	4	1050	1	KED
⌊	As	75	3.013	ug/L	0.134	4	2	788	5	KED
	Y	89		ug/L			40140	57255	3	Standard
	Kr	83		ug/L			40	37	36	Standard
⌈>	In-1	115		ug/L			6950	6696	3	KED
|	Cd	111	2.447	ug/L	0.099	4	3	595	4	KED
⌊	Cd	114	2.438	ug/L	0.131	5	0	1507	7	KED
⌈>	In	115		ug/L			429431	437727	1	Standard
|	Ag	107	2.205	ug/L	0.040	1	24	31452	3	Standard
|	Ba	135	5.278	ug/L	0.058	1	46	28043	1	Standard
⌊	Ba	137	5.274	ug/L	0.063	1	85	49996	1	Standard
⌈>	Tb	159		ug/L			166755	177766	1	Standard
⌊	Pb	208	3.166	ug/L	0.042	1	213	272094	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0298-MSD2
Sample Dil Factor: 10
Comments:
Sample Date/Time: Thursday, May 11, 2023 20:20:33
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			30125	36979	2	Standard
>	Sc	45		ug/L			488451	525686	2	Standard
	Cr	52	2.854	ug/L	0.078	2	8929	50302	2	Standard
	Cr	53	2.930	ug/L	0.007	0	95	4922	2	Standard
	Mn	55	91.394	ug/L	1.596	1	208	1899162	2	Standard
>	Ge	72		ug/L			31094	31781	0	KED
	Ni	60	3.555	ug/L	0.073	2	36	5384	1	KED
	Ni	62	3.613	ug/L	0.131	3	5	862	3	KED
	Cu	63	4.211	ug/L	0.090	2	24	17809	2	KED
	Cu	65	4.197	ug/L	0.110	2	18	9021	2	KED
	Zn	66	12.756	ug/L	0.172	1	23	6717	0	KED
	Zn	67	12.102	ug/L	0.236	1	4	1040	2	KED
	As	75	3.007	ug/L	0.093	3	2	771	2	KED
	Y	89		ug/L			40140	58514	3	Standard
	Kr	83		ug/L			40	45	23	Standard
>	In-1	115		ug/L			6950	6582	3	KED
	Cd	111	2.475	ug/L	0.049	1	3	592	2	KED
	Cd	114	2.509	ug/L	0.189	7	0	1521	3	KED
>	In	115		ug/L			429431	439755	2	Standard
	Ag	107	2.234	ug/L	0.064	2	24	32023	5	Standard
	Ba	135	5.335	ug/L	0.152	2	46	28465	0	Standard
	Ba	137	5.240	ug/L	0.130	2	85	49891	1	Standard
>	Tb	159		ug/L			166755	179008	1	Standard
	Pb	208	3.173	ug/L	0.034	1	213	274515	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLC
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 20:25:57
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30125	32810	3	Standard
⌈>	**Sc**	**45**		ug/L			488451	483754	2	Standard
|	**Cr**	**52**	**0.011**	ug/L	0.007	59	8929	8990	3	Standard
|	**Cr**	**53**	**0.002**	ug/L	0.003	137	95	97	4	Standard
⌊	**Mn**	**55**	**0.004**	ug/L	0.001	24	208	274	5	Standard
⌈>	**Ge**	**72**		ug/L			31094	32249	0	KED
|	**Ni**	**60**	**-0.003**	ug/L	0.008	290	36	33	38	KED
|	**Ni**	**62**	**0.012**	ug/L	0.017	133	5	8	48	KED
|	**Cu**	**63**	**0.003**	ug/L	0.002	58	24	39	20	KED
|	**Cu**	**65**	**-0.000**	ug/L	0.001	410	18	18	15	KED
|	**Zn**	**66**	**0.043**	ug/L	0.009	20	23	46	9	KED
|	**Zn**	**67**	**0.086**	ug/L	0.054	63	4	12	39	KED
⌊	**As**	**75**	**-0.003**	ug/L	0.002	78	2	1	34	KED
	Y	**89**		ug/L			40140	40596	0	Standard
	Kr	**83**		ug/L			40	33	8	Standard
⌈>	**In-1**	**115**		ug/L			6950	6409	1	KED
|	**Cd**	**111**	**-0.000**	ug/L	0.002	1237	3	3	17	KED
⌊	**Cd**	**114**	**0.005**	ug/L	0.003	59	0	3	51	KED
⌈>	**In**	**115**		ug/L			429431	430809	3	Standard
|	**Ag**	**107**	**-0.000**	ug/L	0.000	73	24	20	15	Standard
|	**Ba**	**135**	**0.001**	ug/L	0.002	228	46	50	17	Standard
⌊	**Ba**	**137**	**0.001**	ug/L	0.001	53	85	95	2	Standard
⌈>	**Tb**	**159**		ug/L			166755	168692	2	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	26	213	286	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0568-08
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 20:30:29
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			30125	37172	2	Standard
>	Sc	45		ug/L			488451	585054	3	Standard
	Cr	52	19.035	ug/L	0.241	1	8929	312715	2	Standard
	Cr	53	19.184	ug/L	0.461	2	95	35219	0	Standard
	Mn	55	408.963	ug/L	6.469	1	208	9455468	1	Standard
>	Ge	72		ug/L			31094	29441	1	KED
	Ni	60	49.353	ug/L	1.005	2	36	68810	1	KED
	Ni	62	50.923	ug/L	1.247	2	5	11201	1	KED
	Cu	63	159.251	ug/L	4.042	2	24	623033	2	KED
	Cu	65	156.890	ug/L	1.546	0	18	311752	0	KED
	Zn	66	74.362	ug/L	1.528	2	23	36163	1	KED
	Zn	67	68.154	ug/L	1.445	2	4	5407	3	KED
	As	75	2.157	ug/L	0.080	3	2	513	3	KED
	Y	89		ug/L			40140	317948	1	Standard
	Kr	83		ug/L			40	200	9	Standard
>	In-1	115		ug/L			6950	6095	0	KED
	Cd	111	0.136	ug/L	0.011	8	3	33	7	KED
	Cd	114	0.132	ug/L	0.037	28	0	74	28	KED
>	In	115		ug/L			429431	379319	1	Standard
	Ag	107	0.141	ug/L	0.009	6	24	1757	6	Standard
	Ba	135	13.381	ug/L	0.231	1	46	61552	2	Standard
	Ba	137	13.256	ug/L	0.124	0	85	108769	0	Standard
>	Tb	159		ug/L			166755	185408	1	Standard
	Pb	208	11.928	ug/L	0.058	0	213	1068245	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0143-DUP1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 20:35:32
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			30125	38308	4	Standard
>	Sc	45		ug/L			488451	581455	1	Standard
	Cr	52	18.454	ug/L	0.322	1	8929	301660	0	Standard
	Cr	53	18.605	ug/L	0.072	0	95	33968	1	Standard
	Mn	55	351.407	ug/L	4.276	1	208	8077094	1	Standard
>	Ge	72		ug/L			31094	29946	1	KED
	Ni	60	41.402	ug/L	0.644	1	36	58719	0	KED
	Ni	62	42.603	ug/L	1.363	3	5	9532	2	KED
	Cu	63	160.484	ug/L	4.473	2	24	638555	1	KED
	Cu	65	157.043	ug/L	1.660	1	18	317422	1	KED
	Zn	66	72.547	ug/L	1.040	1	23	35889	1	KED
	Zn	67	70.143	ug/L	1.933	2	4	5659	3	KED
	As	75	3.128	ug/L	0.080	2	2	756	1	KED
	Y	89		ug/L			40140	333817	0	Standard
	Kr	83		ug/L			40	213	3	Standard
>	In-1	115		ug/L			6950	6142	2	KED
	Cd	111	0.193	ug/L	0.048	24	3	46	22	KED
	Cd	114	0.180	ug/L	0.019	10	0	102	9	KED
>	In	115		ug/L			429431	386154	1	Standard
	Ag	107	0.157	ug/L	0.005	3	24	2002	4	Standard
	Ba	135	13.196	ug/L	0.309	2	46	61784	1	Standard
	Ba	137	12.810	ug/L	0.121	0	85	107005	0	Standard
>	Tb	159		ug/L			166755	190251	0	Standard
	Pb	208	15.187	ug/L	0.119	0	213	1395652	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0143-MS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 20:40:03
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			30125	35682	6	Standard
>	Sc	45		ug/L			488451	602861	3	Standard
	Cr	52	40.501	ug/L	0.519	1	8929	673139	2	Standard
	Cr	53	40.134	ug/L	0.661	1	95	75801	2	Standard
	Mn	55	403.696	ug/L	9.605	2	208	9614903	1	Standard
>	Ge	72		ug/L			31094	29627	2	KED
	Ni	60	71.332	ug/L	2.031	2	36	100046	1	KED
	Ni	62	72.084	ug/L	1.289	1	5	15953	1	KED
	Cu	63	178.612	ug/L	3.276	1	24	703091	0	KED
	Cu	65	175.823	ug/L	4.358	2	18	351477	0	KED
	Zn	66	139.753	ug/L	1.404	1	23	68375	1	KED
	Zn	67	133.587	ug/L	5.323	3	4	10654	2	KED
	As	75	22.806	ug/L	0.374	1	2	5440	2	KED
	Y	89		ug/L			40140	354871	3	Standard
	Kr	83		ug/L			40	207	16	Standard
>	In-1	115		ug/L			6950	6155	1	KED
	Cd	111	24.652	ug/L	0.177	0	3	5491	2	KED
	Cd	114	24.512	ug/L	0.441	1	0	13920	0	KED
>	In	115		ug/L			429431	386831	1	Standard
	Ag	107	24.681	ug/L	0.253	1	24	310888	2	Standard
	Ba	135	34.380	ug/L	0.768	2	46	161198	2	Standard
	Ba	137	33.167	ug/L	0.625	1	85	277407	1	Standard
>	Tb	159		ug/L			166755	193863	2	Standard
	Pb	208	30.586	ug/L	0.566	1	213	2863025	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0143-MSD1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 20:44:34
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			30125	36215	3	Standard
>	Sc	45		ug/L			488451	614737	1	Standard
	Cr	52	38.157	ug/L	0.751	1	8929	647469	1	Standard
	Cr	53	38.387	ug/L	0.645	1	95	73963	1	Standard
	Mn	55	373.236	ug/L	6.598	1	208	9069303	1	Standard
>	Ge	72		ug/L			31094	30940	0	KED
	Ni	60	64.989	ug/L	0.830	1	36	95219	1	KED
	Ni	62	66.779	ug/L	0.835	1	5	15436	0	KED
	Cu STL	63	158.301	ug/L	0.895	0	24	650906	0	KED
	Cu	65	158.710	ug/L	3.040	1	18	331427	1	KED
	Zn	66	144.837	ug/L	0.207	0	23	74011	0	KED
	Zn	67	137.610	ug/L	0.372	0	4	11466	0	KED
	As	75	20.547	ug/L	0.227	1	2	5119	0	KED
	Y	89		ug/L			40140	374892	2	Standard
	Kr	83		ug/L			40	194	15	Standard
>	In-1	115		ug/L			6950	6616	2	KED
	Cd	111	23.308	ug/L	0.995	4	3	5576	1	KED
	Cd	114	23.131	ug/L	0.515	2	0	14117	1	KED
>	In	115		ug/L			429431	390014	1	Standard
	Ag	107	25.024	ug/L	0.651	2	24	317728	1	Standard
	Ba	135	34.183	ug/L	0.292	0	46	161600	1	Standard
	Ba	137	33.671	ug/L	0.711	2	85	283919	0	Standard
>	Tb	159		ug/L			166755	198813	0	Standard
	Pb	208	31.952	ug/L	0.481	1	213	3067852	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLD
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 20:49:06
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30125	33486	2	Standard
>	**Sc**	**45**		ug/L			488451	492138	0	Standard
	Cr	**52**	**-0.020**	ug/L	0.018	90	8929	8729	3	Standard
	Cr	**53**	**-0.008**	ug/L	0.003	44	95	84	6	Standard
	Mn	**55**	**0.017**	ug/L	0.004	23	208	536	13	Standard
>	**Ge**	**72**		ug/L			31094	29224	18	KED
	Ni	**60**	**0.004**	ug/L	0.010	275	36	37	15	KED
	Ni	**62**	**0.001**	ug/L	0.024	1900	5	5	114	KED
	Cu	**63**	**0.016**	ug/L	0.004	28	24	81	4	KED
	Cu	**65**	**0.009**	ug/L	0.004	44	18	33	3	KED
	Zn	**66**	**0.058**	ug/L	0.014	23	23	49	7	KED
	Zn	**67**	**0.080**	ug/L	0.103	128	4	9	60	KED
	As	**75**	**0.006**	ug/L	0.005	91	2	3	43	KED
	Y	**89**		ug/L			40140	40341	2	Standard
	Kr	**83**		ug/L			40	39	12	Standard
>	**In-1**	**115**		ug/L			6950	6607	3	KED
	Cd	**111**	**0.053**	ug/L	0.050	94	3	15	75	KED
	Cd	**114**	**0.057**	ug/L	0.050	88	0	34	86	KED
>	**In**	**115**		ug/L			429431	424681	1	Standard
	Ag	**107**	**0.002**	ug/L	0.001	61	24	47	28	Standard
	Ba	**135**	**0.001**	ug/L	0.003	304	46	51	29	Standard
	Ba	**137**	**0.002**	ug/L	0.001	35	85	102	5	Standard
>	**Tb**	**159**		ug/L			166755	172906	0	Standard
	Pb	**208**	**0.002**	ug/L	0.000	18	213	376	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVB
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 20:53:38
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30125	30349	2	Standard
⌈>	**Sc**	**45**		ug/L			488451	500151	1	Standard
|	**Cr**	**52**	**47.797**	ug/L	0.682	1	8929	657554	0	Standard
|	**Cr**	**53**	**47.780**	ug/L	0.772	1	95	74890	2	Standard
⌊	**Mn**	**55**	**48.138**	ug/L	0.695	1	208	951850	0	Standard
⌈>	**Ge**	**72**		ug/L			31094	31557	1	KED
|	**Ni**	**60**	**49.111**	ug/L	0.948	1	36	73390	1	KED
|	**Ni**	**62**	**50.092**	ug/L	1.814	3	5	11808	2	KED
|	**Cu**	**63**	**50.292**	ug/L	0.819	1	24	210903	0	KED
|	**Cu**	**65**	**49.462**	ug/L	0.808	1	18	105355	1	KED
|	**Zn**	**66**	**50.887**	ug/L	0.866	1	23	26532	0	KED
|	**Zn**	**67**	**50.159**	ug/L	1.636	3	4	4266	4	KED
⌊	**As**	**75**	**50.279**	ug/L	1.185	2	2	12772	0	KED
	Y	**89**		ug/L			40140	41165	1	Standard
	Kr	**83**		ug/L			40	45	19	Standard
⌈>	**In-1**	**115**		ug/L			6950	6605	2	KED
|	**Cd**	**111**	**48.346**	ug/L	0.954	1	3	11548	0	KED
⌊	**Cd**	**114**	**49.017**	ug/L	1.180	2	0	29865	0	KED
⌈>	**In**	**115**		ug/L			429431	430018	0	Standard
|	**Ag**	**107**	**48.606**	ug/L	0.839	1	24	680582	1	Standard
|	**Ba**	**135**	**48.913**	ug/L	0.978	2	46	254944	2	Standard
⌊	**Ba**	**137**	**48.708**	ug/L	0.267	0	85	452897	0	Standard
⌈>	**Tb**	**159**		ug/L			166755	176847	0	Standard
⌊	**Pb**	**208**	**48.974**	ug/L	0.478	0	213	4182898	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBB
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 21:00:53
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30125	29643	3	Standard
⌈>	**Sc**	**45**		ug/L			488451	487286	0	Standard
|	**Cr**	**52**	**0.000**	ug/L	0.006	21725	8929	8908	0	Standard
|	**Cr**	**53**	**-0.004**	ug/L	0.005	120	95	89	7	Standard
⌊	**Mn**	**55**	**0.002**	ug/L	0.000	12	208	253	2	Standard
⌈>	**Ge**	**72**		ug/L			31094	32611	0	KED
|	**Ni**	**60**	**-0.003**	ug/L	0.006	214	36	33	27	KED
|	**Ni**	**62**	**0.009**	ug/L	0.020	219	5	7	66	KED
|	**Cu**	**63**	**0.004**	ug/L	0.002	51	24	41	19	KED
|	**Cu**	**65**	**-0.001**	ug/L	0.003	424	18	17	37	KED
|	**Zn**	**66**	**0.020**	ug/L	0.002	9	23	35	3	KED
|	**Zn**	**67**	**0.041**	ug/L	0.013	31	4	8	13	KED
⌊	**As**	**75**	**0.003**	ug/L	0.008	234	2	3	62	KED
	Y	**89**		ug/L			40140	39383	1	Standard
	Kr	**83**		ug/L			40	33	18	Standard
⌈>	**In-1**	**115**		ug/L			6950	6576	2	KED
|	**Cd**	**111**	**-0.004**	ug/L	0.005	105	3	2	49	KED
⌊	**Cd**	**114**	**0.008**	ug/L	0.008	97	0	5	88	KED
⌈>	**In**	**115**		ug/L			429431	427806	1	Standard
|	**Ag**	**107**	**0.002**	ug/L	0.001	35	24	45	14	Standard
|	**Ba**	**135**	**0.000**	ug/L	0.003	825	46	48	25	Standard
⌊	**Ba**	**137**	**0.000**	ug/L	0.003	817	85	88	26	Standard
⌈>	**Tb**	**159**		ug/L			166755	168082	0	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	33	213	311	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0568-02
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 21:06:41
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			30125	46985	4	Standard
>	Sc	45		ug/L			488451	534721	1	Standard
	Cr	52	27.742	ug/L	0.720	2	8929	412240	3	Standard
	Cr	53	28.038	ug/L	0.287	1	95	47020	1	Standard
	Mn	55	1064.142	ug/L	28.598	2	208	22494749	3	Standard
>	Ge	72		ug/L			31094	32051	1	KED
	Ni	60	15.678	ug/L	0.036	0	36	23824	1	KED
	Ni	62	16.233	ug/L	0.031	0	5	3891	1	KED
	Cu	63	46.517	ug/L	0.453	0	24	198148	0	KED
	Cu	65	45.801	ug/L	0.802	1	18	99088	1	KED
	Zn	66	173.657	ug/L	4.375	2	23	91903	1	KED
	Zn	67	165.252	ug/L	1.668	1	4	14262	0	KED
	As	75	12.925	ug/L	0.220	1	2	3336	0	KED
	Y	89		ug/L			40140	142103	1	Standard
	Kr	83		ug/L			40	71	10	Standard
>	In-1	115		ug/L			6950	6885	2	KED
	Cd	111	0.414	ug/L	0.001	0	3	106	2	KED
	Cd	114	0.366	ug/L	0.022	5	0	233	4	KED
>	In	115		ug/L			429431	393324	2	Standard
	Ag	107	0.162	ug/L	0.006	3	24	2101	6	Standard
	Ba	135	31.697	ug/L	0.823	2	46	151057	0	Standard
	Ba	137	30.637	ug/L	0.149	0	85	260595	2	Standard
>	Tb	159		ug/L			166755	168476	0	Standard
	Pb	208	151.589	ug/L	2.471	1	213	12335180	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0568-03
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 21:11:12
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			30125	46502	4	Standard
>	Sc	45		ug/L			488451	543996	2	Standard
	Cr	52	30.867	ug/L	0.240	0	8929	465460	2	Standard
	Cr	53	31.076	ug/L	0.581	1	95	53005	2	Standard
	Mn	55	455.053	ug/L	4.939	1	208	9786918	3	Standard
>	Ge	72		ug/L			31094	30784	1	KED
	Ni	60	15.099	ug/L	0.155	1	36	22037	1	KED
	Ni	62	14.992	ug/L	0.644	4	5	3451	3	KED
	Cu	63	131.128	ug/L	5.499	4	24	536254	2	KED
	Cu	65	131.305	ug/L	2.284	1	18	272796	0	KED
	Zn	66	169.823	ug/L	4.654	2	23	86314	1	KED
	Zn	67	157.006	ug/L	1.585	1	4	13016	1	KED
	As	75	18.607	ug/L	0.104	0	2	4613	1	KED
	Y	89		ug/L			40140	155497	1	Standard
	Kr	83		ug/L			40	89	14	Standard
>	In-1	115		ug/L			6950	6472	1	KED
	Cd	111	12.622	ug/L	0.366	2	3	2957	2	KED
	Cd	114	12.499	ug/L	0.041	0	0	7466	1	KED
>	In	115		ug/L			429431	414369	2	Standard
	Ag	107	0.148	ug/L	0.002	1	24	2024	3	Standard
	Ba	135	21.870	ug/L	0.587	2	46	109854	2	Standard
	Ba	137	21.381	ug/L	0.340	1	85	191573	1	Standard
>	Tb	159		ug/L			166755	179904	3	Standard
	Pb	208	745.655	ug/L	14.614	1	213	64757164	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0568-04
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 21:15:43
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			30125	49445	4	Standard
>	Sc	45		ug/L			488451	557144	2	Standard
	Cr	52	21.947	ug/L	0.141	0	8929	341879	2	Standard
	Cr	53	22.190	ug/L	0.381	1	95	38788	2	Standard
	Mn	55	329.777	ug/L	2.960	0	208	7262106	1	Standard
>	Ge	72		ug/L			31094	31410	1	KED
	Ni	60	12.193	ug/L	0.133	1	36	18167	1	KED
	Ni	62	12.756	ug/L	0.087	0	5	2997	0	KED
	Cu	63	87.915	ug/L	0.516	0	24	366988	0	KED
	Cu	65	86.966	ug/L	1.593	1	18	184386	2	KED
	Zn	66	133.428	ug/L	1.490	1	23	69214	0	KED
	Zn	67	126.587	ug/L	0.681	0	4	10708	0	KED
	As	75	6.938	ug/L	0.154	2	2	1756	1	KED
	Y	89		ug/L			40140	162765	0	Standard
	Kr	83		ug/L			40	78	14	Standard
>	In-1	115		ug/L			6950	6408	2	KED
	Cd	111	0.222	ug/L	0.004	1	3	54	1	KED
	Cd	114	0.192	ug/L	0.008	4	0	114	6	KED
>	In	115		ug/L			429431	423474	3	Standard
	Ag	107	0.121	ug/L	0.012	9	24	1683	6	Standard
	Ba	135	23.608	ug/L	0.725	3	46	121113	0	Standard
	Ba	137	23.286	ug/L	0.661	2	85	213135	1	Standard
>	Tb	159		ug/L			166755	190018	1	Standard
	Pb	208	268.236	ug/L	5.726	2	213	24611827	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0568-05
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 21:20:14
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			30125	43125	3	Standard
>	Sc	45		ug/L			488451	568425	3	Standard
	Cr	52	11.128	ug/L	0.256	2	8929	181902	1	Standard
	Cr	53	11.274	ug/L	0.144	1	95	20167	3	Standard
	Mn	55	78.112	ug/L	0.641	0	208	1755331	3	Standard
>	Ge	72		ug/L			31094	31370	1	KED
	Ni	60	8.987	ug/L	0.100	1	36	13381	1	KED
	Ni	62	9.507	ug/L	0.203	2	5	2232	1	KED
	Cu	63	15.324	ug/L	0.349	2	24	63896	0	KED
	Cu	65	15.022	ug/L	0.351	2	18	31818	1	KED
	Zn	66	62.987	ug/L	1.489	2	23	32641	1	KED
	Zn	67	62.205	ug/L	0.150	0	4	5258	1	KED
	As	75	4.223	ug/L	0.106	2	2	1068	2	KED
	Y	89		ug/L			40140	164869	4	Standard
	Kr	83		ug/L			40	59	23	Standard
>	In-1	115		ug/L			6950	6674	2	KED
	Cd	111	0.164	ug/L	0.029	17	3	42	13	KED
	Cd	114	0.184	ug/L	0.005	2	0	113	1	KED
>	In	115		ug/L			429431	436073	0	Standard
	Ag	107	0.055	ug/L	0.004	7	24	800	8	Standard
	Ba	135	31.748	ug/L	0.181	0	46	167824	1	Standard
	Ba	137	31.695	ug/L	0.503	1	85	298917	2	Standard
>	Tb	159		ug/L			166755	198717	1	Standard
	Pb	208	11.851	ug/L	0.067	0	213	1137514	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0568-06
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 21:24:45
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			30125	52682	5	Standard
>	Sc	45		ug/L			488451	588362	2	Standard
	Cr	52	9.639	ug/L	0.081	0	8929	164582	2	Standard
	Cr	53	9.847	ug/L	0.196	1	95	18240	1	Standard
	Mn	55	236.529	ug/L	1.621	0	208	5500825	2	Standard
>	Ge	72		ug/L			31094	33225	0	KED
	Ni	60	8.532	ug/L	0.131	1	36	13457	1	KED
	Ni	62	8.750	ug/L	0.263	3	5	2176	2	KED
	Cu	63	18.273	ug/L	0.399	2	24	80703	1	KED
	Cu	65	18.279	ug/L	0.790	4	18	41002	3	KED
	Zn	66	78.244	ug/L	1.706	2	23	42943	1	KED
	Zn	67	75.675	ug/L	1.756	2	4	6773	2	KED
	As	75	5.178	ug/L	0.031	0	2	1387	0	KED
	Y	89		ug/L			40140	155868	1	Standard
	Kr	83		ug/L			40	63	14	Standard
>	In-1	115		ug/L			6950	6990	1	KED
	Cd	111	0.159	ug/L	0.055	34	3	43	32	KED
	Cd	114	0.216	ug/L	0.010	4	0	139	5	KED
>	In	115		ug/L			429431	457253	0	Standard
	Ag	107	0.098	ug/L	0.004	3	24	1487	3	Standard
	Ba	135	26.043	ug/L	0.215	0	46	144364	1	Standard
	Ba	137	26.184	ug/L	0.847	3	85	258950	3	Standard
>	Tb	159		ug/L			166755	203335	0	Standard
	Pb	208	44.443	ug/L	0.772	1	213	4364411	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0568-07
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 21:29:16
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			30125	50602	3	Standard
> Sc	45		ug/L			488451	631146	5	Standard
Cr	52	15.659	ug/L	0.589	3	8929	279291	2	Standard
Cr	53	15.823	ug/L	0.301	1	95	31355	3	Standard
Mn	55	235.921	ug/L	3.276	1	208	5884205	4	Standard
> Ge	72		ug/L			31094	33332	1	KED
Ni	60	19.230	ug/L	0.351	1	36	30377	0	KED
Ni	62	19.008	ug/L	0.180	0	5	4737	1	KED
Cu	63	54.270	ug/L	0.333	0	24	240431	1	KED
Cu	65	54.135	ug/L	0.602	1	18	121818	2	KED
Zn	66	194.999	ug/L	3.341	1	23	107329	1	KED
Zn	67	185.832	ug/L	0.783	0	4	16680	1	KED
As	75	5.114	ug/L	0.095	1	2	1374	1	KED
Y	89		ug/L			40140	233218	3	Standard
Kr	83		ug/L			40	90	12	Standard
> In-1	115		ug/L			6950	6868	1	KED
Cd	111	0.418	ug/L	0.031	7	3	107	5	KED
Cd	114	0.429	ug/L	0.029	6	0	272	6	KED
> In	115		ug/L			429431	446354	3	Standard
Ag	107	0.123	ug/L	0.002	1	24	1805	2	Standard
Ba	135	34.836	ug/L	0.436	1	46	188478	3	Standard
Ba	137	34.431	ug/L	0.869	2	85	332185	2	Standard
> Tb	159		ug/L			166755	209030	2	Standard
Pb	208	24.530	ug/L	0.094	0	213	2476421	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLE
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 21:34:12
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30125	33902	4	Standard
⌈>	**Sc**	**45**		ug/L			488451	509317	2	Standard
|	**Cr**	**52**	**-0.010**	ug/L	0.003	34	8929	9169	1	Standard
|	**Cr**	**53**	**-0.014**	ug/L	0.004	29	95	76	10	Standard
⌊	**Mn**	**55**	**0.009**	ug/L	0.002	25	208	392	11	Standard
⌈>	**Ge**	**72**		ug/L			31094	33105	3	KED
|	**Ni**	**60**	**-0.010**	ug/L	0.004	40	36	23	28	KED
|	**Ni**	**62**	**-0.014**	ug/L	0.000	1	5	1		KED
|	**Cu**	**63**	**0.007**	ug/L	0.002	25	24	58	14	KED
|	**Cu**	**65**	**0.005**	ug/L	0.004	80	18	30	28	KED
|	**Zn**	**66**	**0.032**	ug/L	0.022	68	23	42	29	KED
|	**Zn**	**67**	**0.061**	ug/L	0.054	88	4	10	47	KED
⌊	**As**	**75**	**-0.002**	ug/L	0.002	98	2	1	31	KED
	Y	**89**		ug/L			40140	40283	2	Standard
	Kr	**83**		ug/L			40	36	9	Standard
⌈>	**In-1**	**115**		ug/L			6950	6626	2	KED
|	**Cd**	**111**	**-0.003**	ug/L	0.002	66	3	2	21	KED
⌊	**Cd**	**114**	**0.008**	ug/L	0.003	40	0	5	35	KED
⌈>	**In**	**115**		ug/L			429431	437233	1	Standard
|	**Ag**	**107**	**-0.001**	ug/L	0.000	21	24	14	15	Standard
|	**Ba**	**135**	**-0.001**	ug/L	0.000	64	46	44	6	Standard
⌊	**Ba**	**137**	**0.000**	ug/L	0.001	198	85	91	7	Standard
⌈>	**Tb**	**159**		ug/L			166755	178936	1	Standard
⌊	**Pb**	**208**	**0.003**	ug/L	0.000	6	213	482	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0143-MSD1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 21:40:52

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			30125	38182	4	Standard
> Sc	45		ug/L			488451	677388	3	Standard
Cr	52	38.068	ug/L	0.685	1	8929	711624	1	Standard
Cr	53	38.733	ug/L	1.470	3	95	82170	1	Standard
Mn	55	373.479	ug/L	7.490	2	208	9996495	1	Standard
> Ge	72		ug/L			31094	32777	1	KED
Ni	60	66.532	ug/L	2.386	3	36	103242	2	KED
Ni	62	67.162	ug/L	1.345	2	5	16448	2	KED
Cu	63	165.307	ug/L	1.190	0	24	720130	1	KED
Cu	65	163.973	ug/L	2.411	1	18	362734	0	KED
Zn	66	148.455	ug/L	3.061	2	23	80352	0	KED
Zn	67	141.313	ug/L	2.921	2	4	12472	0	KED
As	75	21.021	ug/L	0.453	2	2	5548	0	KED
Y	89		ug/L			40140	388292	2	Standard
Kr	83		ug/L			40	179	8	Standard
> In-1	115		ug/L			6950	6715	2	KED
Cd	111	24.505	ug/L	0.693	2	3	5952	1	KED
Cd	114	24.265	ug/L	0.380	1	0	15034	0	KED
> In	115		ug/L			429431	410418	2	Standard
Ag	107	24.850	ug/L	0.270	1	24	332055	1	Standard
Ba	135	35.070	ug/L	0.499	1	46	174462	2	Standard
Ba	137	33.654	ug/L	0.449	1	85	298697	3	Standard
> Tb	159		ug/L			166755	214273	1	Standard
Pb	208	31.024	ug/L	0.787	2	213	3210544	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLF
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 21:46:13
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30125	34214	5	Standard
⌈>	**Sc**	**45**		ug/L			488451	519979	1	Standard
|	**Cr**	**52**	**-0.024**	ug/L	0.004	16	8929	9169	2	Standard
|	**Cr**	**53**	**-0.017**	ug/L	0.004	24	95	73	11	Standard
⌊	**Mn**	**55**	**0.005**	ug/L	0.001	25	208	320	5	Standard
⌈>	**Ge**	**72**		ug/L			31094	33035	3	KED
|	**Ni**	**60**	**0.061**	ug/L	0.059	95	36	132	68	KED
|	**Ni**	**62**	**0.033**	ug/L	0.048	144	5	13	86	KED
|	**Cu**	**63**	**0.179**	ug/L	0.156	87	24	801	85	KED
|	**Cu**	**65**	**0.164**	ug/L	0.157	95	18	382	91	KED
|	**Zn**	**66**	**0.164**	ug/L	0.147	89	23	113	69	KED
|	**Zn**	**67**	**0.135**	ug/L	0.173	128	4	16	93	KED
⌊	**As**	**75**	**0.029**	ug/L	0.026	86	2	10	67	KED
	Y	**89**		ug/L			40140	40195	1	Standard
	Kr	**83**		ug/L			40	44	19	Standard
⌈>	**In-1**	**115**		ug/L			6950	6917	1	KED
|	**Cd**	**111**	**0.001**	ug/L	0.004	291	3	3	25	KED
⌊	**Cd**	**114**	**0.005**	ug/L	0.003	61	0	3	51	KED
⌈>	**In**	**115**		ug/L			429431	432133	1	Standard
|	**Ag**	**107**	**0.000**	ug/L	0.001	905	24	26	37	Standard
|	**Ba**	**135**	**-0.001**	ug/L	0.002	129	46	40	21	Standard
⌊	**Ba**	**137**	**-0.003**	ug/L	0.001	43	85	56	21	Standard
⌈>	**Tb**	**159**		ug/L			166755	179540	0	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	44	213	278	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVC
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 21:50:45
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30125	31361	3	Standard
⌈>	**Sc**	**45**		ug/L			488451	510631	1	Standard
|	**Cr**	**52**	**48.852**	ug/L	1.102	2	8929	685926	1	Standard
|	**Cr**	**53**	**48.864**	ug/L	0.948	1	95	78172	1	Standard
⌊	**Mn**	**55**	**48.790**	ug/L	1.863	3	208	984808	2	Standard
⌈>	**Ge**	**72**		ug/L			31094	33139	0	KED
|	**Ni**	**60**	**49.000**	ug/L	0.527	1	36	76909	1	KED
|	**Ni**	**62**	**49.629**	ug/L	0.936	1	5	12290	2	KED
|	**Cu**	**63**	**49.216**	ug/L	0.050	0	24	216780	0	KED
|	**Cu**	**65**	**48.963**	ug/L	0.852	1	18	109532	1	KED
|	**Zn**	**66**	**51.210**	ug/L	1.079	2	23	28043	1	KED
|	**Zn**	**67**	**50.210**	ug/L	0.199	0	4	4484	0	KED
⌊	**As**	**75**	**49.346**	ug/L	0.471	0	2	13167	1	KED
	Y	**89**		ug/L			40140	40043	0	Standard
	Kr	**83**		ug/L			40	41	15	Standard
⌈>	**In-1**	**115**		ug/L			6950	6706	1	KED
|	**Cd**	**111**	**49.190**	ug/L	1.141	2	3	11934	2	KED
⌊	**Cd**	**114**	**48.845**	ug/L	0.837	1	0	30229	2	KED
⌈>	**In**	**115**		ug/L			429431	427274	0	Standard
|	**Ag**	**107**	**49.191**	ug/L	1.107	2	24	684390	2	Standard
|	**Ba**	**135**	**50.763**	ug/L	0.378	0	46	262894	0	Standard
⌊	**Ba**	**137**	**50.712**	ug/L	1.304	2	85	468482	2	Standard
⌈>	**Tb**	**159**		ug/L			166755	182549	2	Standard
⌊	**Pb**	**208**	**48.451**	ug/L	0.915	1	213	4270718	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBC
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 21:58:00
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			30125	29097	5	Standard
⌈>	**Sc**	**45**		ug/L			488451	490683	2	Standard
|	**Cr**	**52**	**-0.027**	ug/L	0.016	57	8929	8604	2	Standard
|	**Cr**	**53**	**-0.020**	ug/L	0.005	26	95	65	10	Standard
⌊	**Mn**	**55**	**0.003**	ug/L	0.001	42	208	264	6	Standard
⌈>	**Ge**	**72**		ug/L			31094	31437	2	KED
|	**Ni**	**60**	**-0.003**	ug/L	0.004	119	36	31	21	KED
|	**Ni**	**62**	**0.002**	ug/L	0.001	26	5	5	0	KED
|	**Cu**	**63**	**0.007**	ug/L	0.001	7	24	54	4	KED
|	**Cu**	**65**	**0.006**	ug/L	0.004	71	18	31	30	KED
|	**Zn**	**66**	**0.027**	ug/L	0.015	56	23	38	22	KED
|	**Zn**	**67**	**0.007**	ug/L	0.012	172	4	5	21	KED
⌊	**As**	**75**	**0.007**	ug/L	0.006	88	2	3	36	KED
	Y	**89**		ug/L			40140	39951	3	Standard
	Kr	**83**		ug/L			40	38	10	Standard
⌈>	**In-1**	**115**		ug/L			6950	6671	1	KED
|	**Cd**	**111**	**-0.005**	ug/L	0.004	94	3	2	49	KED
⌊	**Cd**	**114**	**0.007**	ug/L	0.004	50	0	4	45	KED
⌈>	**In**	**115**		ug/L			429431	425844	1	Standard
|	**Ag**	**107**	**0.002**	ug/L	0.001	42	24	47	20	Standard
|	**Ba**	**135**	**0.002**	ug/L	0.002	99	46	59	19	Standard
⌊	**Ba**	**137**	**-0.002**	ug/L	0.000	17	85	68	2	Standard
⌈>	**Tb**	**159**		ug/L			166755	170214	1	Standard
⌊	**Pb**	**208**	**0.003**	ug/L	0.000	17	213	433	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 22:03:46
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				28285	5	Standard
⎡>	**Sc**	**45**		ug/L				489773	1	Standard
⎢	**Cr**	**52**		ug/L				8505	2	Standard
⎣	**Cr**	**53**		ug/L				60	5	Standard
⎡>	**Ge**	**72**		ug/L				31037	2	KED
⎢	**Cu**	**63**		ug/L				42	18	KED
⎢	**Cu**	**65**		ug/L				15	79	KED
⎢	**Zn**	**66**		ug/L				22	36	KED
⎢	**Zn**	**67**		ug/L				4	65	KED
⎣	**As**	**75**		ug/L				3	34	KED
	Y	**89**		ug/L				38706	2	Standard
	Kr	**83**		ug/L				31	34	Standard
⎡>	**In-1**	**115**		ug/L				6431	1	KED
⎢	**Cd**	**111**		ug/L				3	75	KED
⎣	**Cd**	**114**		ug/L				0	208	KED
⎡>	**In**	**115**		ug/L				415168	1	Standard
⎣	**Ag**	**107**		ug/L				37	32	Standard
⎡>	**Tb**	**159**		ug/L				170846	0	Standard
⎣	**Pb**	**208**		ug/L				364	19	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVD
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 22:08:08
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28285	29789	4	Standard
⌈>	**Sc**	**45**		ug/L			489773	492820	1	Standard
|	**Cr**	**52**	**47.526**	ug/L	0.881	1	8505	643953	2	Standard
⌊	**Cr**	**53**	**48.003**	ug/L	0.353	0	60	74096	1	Standard
⌈>	**Ge**	**72**		ug/L			31037	31517	1	KED
|	**Cu**	**63**	**48.957**	ug/L	0.528	1	42	205076	0	KED
|	**Cu**	**65**	**48.445**	ug/L	0.610	1	15	103059	1	KED
|	**Zn**	**66**	**50.910**	ug/L	0.274	0	22	26515	1	KED
|	**Zn**	**67**	**49.932**	ug/L	2.398	4	4	4240	4	KED
⌊	**As**	**75**	**49.739**	ug/L	0.385	0	3	12622	0	KED
	Y	**89**		ug/L			38706	39760	2	Standard
	Kr	**83**		ug/L			31	36	10	Standard
⌈>	**In-1**	**115**		ug/L			6431	6548	0	KED
|	**Cd**	**111**	**48.693**	ug/L	0.226	0	3	11534	0	KED
⌊	**Cd**	**114**	**49.288**	ug/L	0.311	0	0	29781	0	KED
⌈>	**In**	**115**		ug/L			415168	405853	1	Standard
⌊	**Ag**	**107**	**50.361**	ug/L	1.548	3	37	665305	1	Standard
⌈>	**Tb**	**159**		ug/L			170846	174104	1	Standard
⌊	**Pb**	**208**	**49.105**	ug/L	0.386	0	364	4128822	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBD
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 22:15:13
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28285	28697	2	Standard
⌈>	**Sc**	**45**		ug/L			489773	484962	1	Standard
|	**Cr**	**52**	**-0.004**	ug/L	0.008	205	8505	8370	2	Standard
⌊	**Cr**	**53**	**0.007**	ug/L	0.006	90	60	70	14	Standard
⌈>	**Ge**	**72**		ug/L			31037	31012	0	KED
|	**Cu**	**63**	**0.002**	ug/L	0.002	78	42	52	14	KED
|	**Cu**	**65**	**0.006**	ug/L	0.005	87	15	27	37	KED
|	**Zn**	**66**	**0.030**	ug/L	0.010	32	22	38	13	KED
|	**Zn**	**67**	**0.023**	ug/L	0.095	417	4	6	124	KED
⌊	**As**	**75**	**-0.001**	ug/L	0.002	343	3	3	18	KED
	Y	**89**		ug/L			38706	38893	2	Standard
	Kr	**83**		ug/L			31	50	28	Standard
⌈>	**In-1**	**115**		ug/L			6431	6579	1	KED
|	**Cd**	**111**	**-0.004**	ug/L	0.006	138	3	2	65	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.002	190	0	1	99	KED
⌈>	**In**	**115**		ug/L			415168	423463	0	Standard
⌊	**Ag**	**107**	**0.000**	ug/L	0.001	205	37	43	26	Standard
⌈>	**Tb**	**159**		ug/L			170846	170623	0	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.001	203	364	394	15	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0467-03
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 22:22:47
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28285	48851	3	Standard
⌈>	Sc	45		ug/L			489773	577049	3	Standard
|	Cr	52	13.738	ug/L	0.110	0	8505	225029	3	Standard
⌊	Cr	53	13.944	ug/L	0.189	1	60	25244	2	Standard
⌈>	Ge	72		ug/L			31037	31520	0	KED
|	Cu	63	31.485	ug/L	1.089	3	42	131942	3	KED
|	Cu	65	31.317	ug/L	0.931	2	15	66646	3	KED
|	Zn	66	59.634	ug/L	0.617	1	22	31058	1	KED
|	Zn	67	56.517	ug/L	1.374	2	4	4800	2	KED
⌊	As	75	6.809	ug/L	0.157	2	3	1731	2	KED
	Y	89		ug/L			38706	202589	3	Standard
	Kr	83		ug/L			31	67	21	Standard
⌈>	In-1	115		ug/L			6431	6849	3	KED
|	Cd	111	0.194	ug/L	0.034	17	3	51	16	KED
⌊	Cd	114	0.228	ug/L	0.029	12	0	143	9	KED
⌈>	In	115		ug/L			415168	425958	2	Standard
⌊	Ag	107	0.147	ug/L	0.007	4	37	2083	5	Standard
⌈>	Tb	159		ug/L			170846	199303	2	Standard
⌊	Pb	208	12.702	ug/L	0.088	0	364	1223123	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0071-03
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 22:27:08
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28285	52612	4	Standard
⌈>	**Sc**	**45**		ug/L			489773	588040	1	Standard
|	**Cr**	**52**	**14.298**	ug/L	0.054	0	8505	238304	2	Standard
⌊	**Cr**	**53**	**14.269**	ug/L	0.142	0	60	26330	2	Standard
⌈>	**Ge**	**72**		ug/L			31037	31325	1	KED
|	**Cu**	**63**	**34.136**	ug/L	0.313	0	42	142137	0	KED
|	**Cu**	**65**	**33.400**	ug/L	0.799	2	15	70615	0	KED
|	**Zn**	**66**	**65.895**	ug/L	1.586	2	22	34095	0	KED
|	**Zn**	**67**	**65.267**	ug/L	0.838	1	4	5508	1	KED
⌊	**As**	**75**	**7.587**	ug/L	0.122	1	3	1916	1	KED
	Y	**89**		ug/L			38706	205508	0	Standard
	Kr	**83**		ug/L			31	71	24	Standard
⌈>	**In-1**	**115**		ug/L			6431	6667	2	KED
|	**Cd**	**111**	**0.243**	ug/L	0.027	11	3	61	9	KED
⌊	**Cd**	**114**	**0.225**	ug/L	0.042	18	0	138	16	KED
⌈>	**In**	**115**		ug/L			415168	427225	1	Standard
⌊	**Ag**	**107**	**0.148**	ug/L	0.004	2	37	2103	1	Standard
⌈>	**Tb**	**159**		ug/L			170846	203411	2	Standard
⌊	**Pb**	**208**	**13.736**	ug/L	0.326	2	364	1349193	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0008-01
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 22:31:29
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28285	47376	4	Standard
⌈>	**Sc**	**45**		ug/L			489773	581887	0	Standard
|	**Cr**	**52**	**12.314**	ug/L	0.033	0	8505	204488	0	Standard
⌊	**Cr**	**53**	**12.138**	ug/L	0.153	1	60	22175	2	Standard
⌈>	**Ge**	**72**		ug/L			31037	30368	4	KED
|	**Cu**	**63**	**27.278**	ug/L	0.612	2	42	110055	2	KED
|	**Cu**	**65**	**26.800**	ug/L	0.990	3	15	54888	1	KED
|	**Zn**	**66**	**96.499**	ug/L	2.661	2	22	48366	1	KED
|	**Zn**	**67**	**93.435**	ug/L	1.571	1	4	7639	2	KED
⌊	**As**	**75**	**5.151**	ug/L	0.287	5	3	1260	1	KED
	Y	**89**		ug/L			38706	199023	1	Standard
	Kr	**83**		ug/L			31	67	18	Standard
⌈>	**In-1**	**115**		ug/L			6431	6421	1	KED
|	**Cd**	**111**	**0.175**	ug/L	0.034	19	3	43	19	KED
⌊	**Cd**	**114**	**0.155**	ug/L	0.039	24	0	91	22	KED
⌈>	**In**	**115**		ug/L			415168	421474	3	Standard
⌊	**Ag**	**107**	**0.108**	ug/L	0.006	5	37	1521	2	Standard
⌈>	**Tb**	**159**		ug/L			170846	200348	1	Standard
⌊	**Pb**	**208**	**10.076**	ug/L	0.105	1	364	975298	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0136-01
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 22:35:50
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28285	53073	3	Standard
⌈>	Sc	45		ug/L			489773	576636	1	Standard
|	Cr	52	14.019	ug/L	0.167	1	8505	229281	1	Standard
⌊	Cr	53	14.292	ug/L	0.280	1	60	25856	1	Standard
⌈>	Ge	72		ug/L			31037	30759	0	KED
|	Cu	63	37.943	ug/L	0.461	1	42	155136	0	KED
|	Cu	65	37.261	ug/L	0.388	1	15	77367	0	KED
|	Zn	66	84.809	ug/L	1.417	1	22	43090	1	KED
|	Zn	67	82.483	ug/L	1.771	2	4	6834	2	KED
⌊	As	75	9.140	ug/L	0.287	3	3	2266	2	KED
	Y	89		ug/L			38706	203759	0	Standard
	Kr	83		ug/L			31	71	15	Standard
⌈>	In-1	115		ug/L			6431	6435	0	KED
|	Cd	111	0.194	ug/L	0.021	10	3	48	10	KED
⌊	Cd	114	0.249	ug/L	0.007	2	0	148	3	KED
⌈>	In	115		ug/L			415168	422509	1	Standard
⌊	Ag	107	0.157	ug/L	0.006	3	37	2198	4	Standard
⌈>	Tb	159		ug/L			170846	198005	0	Standard
⌊	Pb	208	15.362	ug/L	0.160	1	364	1469423	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0136-03
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 22:40:11
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28285	50849	3	Standard
⌈>	Sc	45		ug/L			489773	582688	1	Standard
|	Cr	52	14.489	ug/L	0.118	0	8505	239127	1	Standard
⌊	Cr	53	14.675	ug/L	0.275	1	60	26833	3	Standard
⌈>	Ge	72		ug/L			31037	31484	1	KED
|	Cu	63	35.162	ug/L	0.415	1	42	147153	0	KED
|	Cu	65	34.804	ug/L	0.505	1	15	73971	1	KED
|	Zn	66	65.580	ug/L	0.825	1	22	34111	0	KED
|	Zn	67	63.513	ug/L	0.902	1	4	5387	1	KED
⌊	As	75	8.323	ug/L	0.120	1	3	2112	0	KED
	Y	89		ug/L			38706	200945	1	Standard
	Kr	83		ug/L			31	82	5	Standard
⌈>	In-1	115		ug/L			6431	6536	1	KED
|	Cd	111	0.233	ug/L	0.021	8	3	58	8	KED
⌊	Cd	114	0.235	ug/L	0.013	5	0	142	4	KED
⌈>	In	115		ug/L			415168	431832	2	Standard
⌊	Ag	107	0.161	ug/L	0.009	5	37	2299	3	Standard
⌈>	Tb	159		ug/L			170846	200028	1	Standard
⌊	Pb	208	14.745	ug/L	0.110	0	364	1424758	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0396-01
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 22:44:32
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28285	55864	5	Standard
⌈>	**Sc**	**45**		ug/L			489773	589497	0	Standard
|	**Cr**	**52**	**14.311**	ug/L	0.130	0	8505	239086	0	Standard
⌊	**Cr**	**53**	**14.650**	ug/L	0.191	1	60	27097	0	Standard
⌈>	**Ge**	**72**		ug/L			31037	31122	1	KED
|	**Cu**	**63**	**38.316**	ug/L	0.293	0	42	158513	1	KED
|	**Cu**	**65**	**38.064**	ug/L	0.356	0	15	79961	1	KED
|	**Zn**	**66**	**71.053**	ug/L	1.084	1	22	36536	2	KED
|	**Zn**	**67**	**67.339**	ug/L	2.040	3	4	5646	3	KED
⌊	**As**	**75**	**7.097**	ug/L	0.133	1	3	1781	3	KED
	Y	**89**		ug/L			38706	215059	2	Standard
	Kr	**83**		ug/L			31	78	33	Standard
⌈>	**In-1**	**115**		ug/L			6431	6493	3	KED
|	**Cd**	**111**	**0.193**	ug/L	0.054	27	3	48	21	KED
⌊	**Cd**	**114**	**0.220**	ug/L	0.020	9	0	132	8	KED
⌈>	**In**	**115**		ug/L			415168	424926	1	Standard
⌊	**Ag**	**107**	**0.157**	ug/L	0.006	4	37	2216	3	Standard
⌈>	**Tb**	**159**		ug/L			170846	201951	1	Standard
⌊	**Pb**	**208**	**15.085**	ug/L	0.363	2	364	1471359	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0396-03
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 22:48:53
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28285	55777	3	Standard
⌈>	Sc	45		ug/L			489773	572796	2	Standard
|	Cr	52	14.013	ug/L	0.199	1	8505	227627	1	Standard
⌊	Cr	53	14.110	ug/L	0.283	2	60	25353	1	Standard
⌈>	Ge	72		ug/L			31037	31260	0	KED
|	Cu	63	34.557	ug/L	0.140	0	42	143608	1	KED
|	Cu	65	34.753	ug/L	0.496	1	15	73336	1	KED
|	Zn	66	66.426	ug/L	0.936	1	22	34305	1	KED
|	Zn	67	63.224	ug/L	1.361	2	4	5325	2	KED
⌊	As	75	6.306	ug/L	0.132	2	3	1589	1	KED
	Y	89		ug/L			38706	202469	0	Standard
	Kr	83		ug/L			31	66	5	Standard
⌈>	In-1	115		ug/L			6431	6464	0	KED
|	Cd	111	0.194	ug/L	0.009	4	3	48	5	KED
⌊	Cd	114	0.184	ug/L	0.007	3	0	110	3	KED
⌈>	In	115		ug/L			415168	425206	0	Standard
⌊	Ag	107	0.138	ug/L	0.002	1	37	1953	0	Standard
⌈>	Tb	159		ug/L			170846	197182	1	Standard
⌊	Pb	208	13.939	ug/L	0.210	1	364	1327642	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0394-02
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 22:53:14
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28285	46448	5	Standard
⌈>	Sc	45		ug/L			489773	549846	2	Standard
|	Cr	52	17.371	ug/L	0.291	1	8505	268634	2	Standard
⌊	Cr	53	17.651	ug/L	0.219	1	60	30439	3	Standard
⌈>	Ge	72		ug/L			31037	31365	0	KED
|	Cu	63	25.021	ug/L	0.154	0	42	104333	0	KED
|	Cu	65	24.851	ug/L	0.217	0	15	52626	1	KED
|	Zn	66	57.690	ug/L	0.363	0	22	29897	0	KED
|	Zn	67	56.329	ug/L	3.259	5	4	4759	4	KED
⌊	As	75	5.835	ug/L	0.052	0	3	1476	1	KED
	Y	89		ug/L			38706	164691	2	Standard
	Kr	83		ug/L			31	52	18	Standard
⌈>	In-1	115		ug/L			6431	6493	1	KED
|	Cd	111	0.078	ug/L	0.024	30	3	21	24	KED
⌊	Cd	114	0.080	ug/L	0.018	22	0	48	20	KED
⌈>	In	115		ug/L			415168	421529	1	Standard
⌊	Ag	107	0.242	ug/L	0.008	3	37	3355	4	Standard
⌈>	Tb	159		ug/L			170846	194334	0	Standard
⌊	Pb	208	11.882	ug/L	0.325	2	364	1115373	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0394-04
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 22:57:35
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28285	43461	2	Standard
⌈>	**Sc**	**45**		ug/L			489773	545974	1	Standard
|	**Cr**	**52**	**17.152**	ug/L	0.276	1	8505	263488	1	Standard
⌊	**Cr**	**53**	**16.985**	ug/L	0.153	0	60	29086	0	Standard
⌈>	**Ge**	**72**		ug/L			31037	31095	0	KED
|	**Cu**	**63**	**43.419**	ug/L	1.078	2	42	179456	2	KED
|	**Cu**	**65**	**43.123**	ug/L	0.628	1	15	90515	0	KED
|	**Zn**	**66**	**109.906**	ug/L	1.583	1	22	56445	0	KED
|	**Zn**	**67**	**104.388**	ug/L	2.835	2	4	8742	2	KED
⌊	**As**	**75**	**4.796**	ug/L	0.203	4	3	1203	3	KED
	Y	**89**		ug/L			38706	160463	1	Standard
	Kr	**83**		ug/L			31	53	15	Standard
⌈>	**In-1**	**115**		ug/L			6431	6538	2	KED
|	**Cd**	**111**	**0.076**	ug/L	0.028	37	3	21	33	KED
⌊	**Cd**	**114**	**0.090**	ug/L	0.014	15	0	54	13	KED
⌈>	**In**	**115**		ug/L			415168	418749	2	Standard
⌊	**Ag**	**107**	**0.052**	ug/L	0.003	6	37	748	3	Standard
⌈>	**Tb**	**159**		ug/L			170846	193022	1	Standard
⌊	**Pb**	**208**	**23.659**	ug/L	0.416	1	364	2205491	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLG
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 23:02:41
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28285	31345	5	Standard
⌈>	**Sc**	**45**		ug/L			489773	473998	2	Standard
|	**Cr**	**52**	**0.011**	ug/L	0.017	149	8505	8374	2	Standard
⌊	**Cr**	**53**	**-0.002**	ug/L	0.001	62	60	55	5	Standard
⌈>	**Ge**	**72**		ug/L			31037	31201	1	KED
|	**Cu**	**63**	**0.014**	ug/L	0.023	158	42	101	91	KED
|	**Cu**	**65**	**0.017**	ug/L	0.023	134	15	51	91	KED
|	**Zn**	**66**	**0.030**	ug/L	0.050	168	22	38	66	KED
|	**Zn**	**67**	**0.030**	ug/L	0.048	159	4	6	56	KED
⌊	**As**	**75**	**-0.008**	ug/L	0.003	38	3	1	57	KED
	Y	**89**		ug/L			38706	39592	4	Standard
	Kr	**83**		ug/L			31	40	23	Standard
⌈>	**In-1**	**115**		ug/L			6431	6544	1	KED
|	**Cd**	**111**	**0.001**	ug/L	0.003	223	3	3	15	KED
⌊	**Cd**	**114**	**-0.000**	ug/L	0.002	7103	0	0	209	KED
⌈>	**In**	**115**		ug/L			415168	422329	2	Standard
⌊	**Ag**	**107**	**-0.002**	ug/L	0.000	17	37	15	25	Standard
⌈>	**Tb**	**159**		ug/L			170846	170875	1	Standard
⌊	**Pb**	**208**	**-0.002**	ug/L	0.000	17	364	216	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVE
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 23:07:02
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28285	28899	5	Standard
⌈>	**Sc**	**45**		ug/L			489773	482605	1	Standard
|	**Cr**	**52**	**48.592**	ug/L	0.483	0	8505	644491	1	Standard
⌊	**Cr**	**53**	**48.168**	ug/L	0.910	1	60	72792	0	Standard
⌈>	**Ge**	**72**		ug/L			31037	31124	2	KED
|	**Cu**	**63**	**49.252**	ug/L	0.912	1	42	203714	1	KED
|	**Cu**	**65**	**49.051**	ug/L	1.631	3	15	103007	1	KED
|	**Zn**	**66**	**50.122**	ug/L	1.329	2	22	25769	0	KED
|	**Zn**	**67**	**50.418**	ug/L	2.174	4	4	4226	2	KED
⌊	**As**	**75**	**49.790**	ug/L	1.321	2	3	12473	0	KED
	Y	**89**		ug/L			38706	40740	2	Standard
	Kr	**83**		ug/L			31	43	13	Standard
⌈>	**In-1**	**115**		ug/L			6431	6726	3	KED
|	**Cd**	**111**	**48.091**	ug/L	1.867	3	3	11693	1	KED
⌊	**Cd**	**114**	**48.760**	ug/L	1.508	3	0	30247	0	KED
⌈>	**In**	**115**		ug/L			415168	420228	3	Standard
⌊	**Ag**	**107**	**49.016**	ug/L	1.974	4	37	670195	1	Standard
⌈>	**Tb**	**159**		ug/L			170846	175745	2	Standard
⌊	**Pb**	**208**	**49.189**	ug/L	0.972	1	364	4174139	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBE
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 23:14:08
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28285	28266	3	Standard
⌈>	**Sc**	**45**		ug/L			489773	475445	3	Standard
|	**Cr**	**52**	**-0.004**	ug/L	0.009	207	8505	8197	2	Standard
⌊	**Cr**	**53**	**-0.000**	ug/L	0.005	7964	60	58	11	Standard
⌈>	**Ge**	**72**		ug/L			31037	31118	1	KED
|	**Cu**	**63**	**0.002**	ug/L	0.001	39	42	50	5	KED
|	**Cu**	**65**	**0.007**	ug/L	0.005	67	15	31	33	KED
|	**Zn**	**66**	**0.026**	ug/L	0.007	27	22	36	9	KED
|	**Zn**	**67**	**0.038**	ug/L	0.047	122	4	7	50	KED
⌊	**As**	**75**	**0.001**	ug/L	0.005	385	3	3	34	KED
	Y	**89**		ug/L			38706	38769	1	Standard
	Kr	**83**		ug/L			31	29	43	Standard
⌈>	**In-1**	**115**		ug/L			6431	6283	2	KED
|	**Cd**	**111**	**-0.001**	ug/L	0.011	917	3	2	88	KED
⌊	**Cd**	**114**	**0.006**	ug/L	0.003	54	0	3	49	KED
⌈>	**In**	**115**		ug/L			415168	422915	1	Standard
⌊	**Ag**	**107**	**-0.000**	ug/L	0.001	294	37	35	24	Standard
⌈>	**Tb**	**159**		ug/L			170846	169400	1	Standard
⌊	**Pb**	**208**	**-0.000**	ug/L	0.000	639	364	356	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0394-06
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 23:18:41
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28285	38997	5	Standard
⌈>	Sc	45		ug/L			489773	553643	1	Standard
|	Cr	52	9.316	ug/L	0.259	2	8505	149520	2	Standard
⌊	Cr	53	9.373	ug/L	0.208	2	60	16308	2	Standard
⌈>	Ge	72		ug/L			31037	31627	2	KED
|	Cu	63	29.984	ug/L	0.541	1	42	126045	0	KED
|	Cu	65	29.430	ug/L	0.324	1	15	62837	2	KED
|	Zn	66	52.353	ug/L	1.686	3	22	27351	1	KED
|	Zn	67	52.332	ug/L	1.242	2	4	4459	0	KED
⌊	As	75	3.039	ug/L	0.073	2	3	777	3	KED
	Y	89		ug/L			38706	164478	3	Standard
	Kr	83		ug/L			31	56	15	Standard
⌈>	In-1	115		ug/L			6431	6291	1	KED
|	Cd	111	0.028	ug/L	0.007	25	3	9	17	KED
⌊	Cd	114	0.043	ug/L	0.005	11	0	25	12	KED
⌈>	In	115		ug/L			415168	427999	3	Standard
⌊	Ag	107	0.030	ug/L	0.002	8	37	455	11	Standard
⌈>	Tb	159		ug/L			170846	198983	0	Standard
⌊	Pb	208	3.822	ug/L	0.050	1	364	367686	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0394-07
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 23:23:02
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28285	38286	3	Standard
⌈>	Sc	45		ug/L			489773	519453	1	Standard
|	Cr	52	7.712	ug/L	0.073	0	8505	117692	1	Standard
⌊	Cr	53	7.871	ug/L	0.226	2	60	12861	4	Standard
⌈>	Ge	72		ug/L			31037	31448	2	KED
|	Cu	63	14.996	ug/L	0.166	1	42	62705	1	KED
|	Cu	65	14.792	ug/L	0.208	1	15	31405	0	KED
|	Zn	66	25.340	ug/L	0.850	3	22	13173	1	KED
|	Zn	67	26.232	ug/L	0.411	1	4	2224	0	KED
⌊	As	75	2.215	ug/L	0.093	4	3	563	1	KED
	Y	89		ug/L			38706	152163	1	Standard
	Kr	83		ug/L			31	47	22	Standard
⌈>	In-1	115		ug/L			6431	6420	1	KED
|	Cd	111	0.030	ug/L	0.016	53	3	10	35	KED
⌊	Cd	114	0.035	ug/L	0.004	11	0	21	11	KED
⌈>	In	115		ug/L			415168	430376	2	Standard
⌊	Ag	107	0.025	ug/L	0.002	8	37	391	7	Standard
⌈>	Tb	159		ug/L			170846	195224	1	Standard
⌊	Pb	208	1.547	ug/L	0.006	0	364	146221	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0394-08
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 23:27:23
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28285	42020	3	Standard
⌈>	Sc	45		ug/L			489773	531122	1	Standard
|	Cr	52	41.170	ug/L	0.332	0	8505	602419	2	Standard
⌊	Cr	53	40.854	ug/L	0.232	0	60	67969	1	Standard
⌈>	Ge	72		ug/L			31037	31204	0	KED
|	Cu	63	64.749	ug/L	0.743	1	42	268545	1	KED
|	Cu	65	63.857	ug/L	0.789	1	15	134517	2	KED
|	Zn	66	98.107	ug/L	1.480	1	22	50571	2	KED
|	Zn	67	104.940	ug/L	1.572	1	4	8819	1	KED
⌊	As	75	7.411	ug/L	0.058	0	3	1865	1	KED
	Y	89		ug/L			38706	146162	2	Standard
	Kr	83		ug/L			31	64	15	Standard
⌈>	In-1	115		ug/L			6431	6268	1	KED
|	Cd	111	0.233	ug/L	0.047	19	3	55	17	KED
⌊	Cd	114	0.227	ug/L	0.012	5	0	131	5	KED
⌈>	In	115		ug/L			415168	410437	2	Standard
⌊	Ag	107	0.161	ug/L	0.004	2	37	2188	3	Standard
⌈>	Tb	159		ug/L			170846	186241	1	Standard
⌊	Pb	208	49.354	ug/L	0.874	1	364	4438659	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0394-11
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 23:31:44
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28285	46824	4	Standard
>	Sc	45		ug/L			489773	553481	1	Standard
	Cr	52	16.703	ug/L	0.354	2	8505	260343	0	Standard
	Cr	53	16.901	ug/L	0.438	2	60	29335	1	Standard
>	Ge	72		ug/L			31037	31314	1	KED
	Cu	63	117.753	ug/L	1.729	1	42	490034	0	KED
	Cu	65	115.655	ug/L	2.577	2	15	244431	1	KED
	Zn	66	370.231	ug/L	7.694	2	22	191412	1	KED
	Zn	67	351.821	ug/L	4.197	1	4	29662	0	KED
	As	75	11.920	ug/L	0.103	0	3	3008	0	KED
	Y	89		ug/L			38706	209610	2	Standard
	Kr	83		ug/L			31	71	24	Standard
>	In-1	115		ug/L			6431	6464	4	KED
	Cd	111	0.784	ug/L	0.104	13	3	185	8	KED
	Cd	114	0.780	ug/L	0.055	7	0	466	11	KED
>	In	115		ug/L			415168	414094	1	Standard
	Ag	107	0.213	ug/L	0.008	3	37	2914	5	Standard
>	Tb	159		ug/L			170846	199232	1	Standard
	Pb	208	155.646	ug/L	2.153	1	364	14974835	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0394-12
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 23:36:05
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28285	43502	3	Standard
⌈>	**Sc**	**45**		ug/L			489773	536443	1	Standard
|	**Cr**	**52**	**15.990**	ug/L	0.351	2	8505	241957	1	Standard
⌊	**Cr**	**53**	**16.015**	ug/L	0.115	0	60	26951	1	Standard
⌈>	**Ge**	**72**		ug/L			31037	31252	0	KED
|	**Cu**	**63**	**23.396**	ug/L	0.365	1	42	97218	2	KED
|	**Cu**	**65**	**23.203**	ug/L	0.190	0	15	48957	0	KED
|	**Zn**	**66**	**55.790**	ug/L	0.407	0	22	28810	0	KED
|	**Zn**	**67**	**53.318**	ug/L	1.275	2	4	4490	1	KED
⌊	**As**	**75**	**5.847**	ug/L	0.035	0	3	1474	0	KED
	Y	**89**		ug/L			38706	147591	2	Standard
	Kr	**83**		ug/L			31	50	12	Standard
⌈>	**In-1**	**115**		ug/L			6431	6546	2	KED
|	**Cd**	**111**	**0.077**	ug/L	0.019	24	3	21	21	KED
⌊	**Cd**	**114**	**0.058**	ug/L	0.020	33	0	36	35	KED
⌈>	**In**	**115**		ug/L			415168	418793	1	Standard
⌊	**Ag**	**107**	**0.049**	ug/L	0.002	5	37	704	4	Standard
⌈>	**Tb**	**159**		ug/L			170846	192806	0	Standard
⌊	**Pb**	**208**	**23.560**	ug/L	0.293	1	364	2194229	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0394-13
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 23:40:26
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28285	40353	3	Standard
⌈>	**Sc**	**45**		ug/L			489773	529737	1	Standard
|	**Cr**	**52**	**14.653**	ug/L	0.363	2	8505	219719	1	Standard
⌊	**Cr**	**53**	**14.593**	ug/L	0.216	1	60	24257	2	Standard
⌈>	**Ge**	**72**		ug/L			31037	31322	0	KED
|	**Cu**	**63**	**21.651**	ug/L	0.262	1	42	90163	0	KED
|	**Cu**	**65**	**21.097**	ug/L	0.151	0	15	44614	0	KED
|	**Zn**	**66**	**67.677**	ug/L	0.813	1	22	35021	1	KED
|	**Zn**	**67**	**66.149**	ug/L	2.076	3	4	5582	2	KED
⌊	**As**	**75**	**4.939**	ug/L	0.116	2	3	1248	2	KED
	Y	**89**		ug/L			38706	148354	1	Standard
	Kr	**83**		ug/L			31	45	0	Standard
⌈>	**In-1**	**115**		ug/L			6431	6500	1	KED
|	**Cd**	**111**	**0.116**	ug/L	0.022	19	3	30	16	KED
⌊	**Cd**	**114**	**0.122**	ug/L	0.045	37	0	73	36	KED
⌈>	**In**	**115**		ug/L			415168	418029	0	Standard
⌊	**Ag**	**107**	**0.073**	ug/L	0.002	2	37	1027	1	Standard
⌈>	**Tb**	**159**		ug/L			170846	195302	0	Standard
⌊	**Pb**	**208**	**32.536**	ug/L	0.079	0	364	3069165	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0393-24
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 23:44:47
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28285	46655	4	Standard
⌈>	Sc	45		ug/L			489773	577415	1	Standard
|	Cr	52	15.546	ug/L	0.231	1	8505	253510	1	Standard
⌊	Cr	53	15.712	ug/L	0.183	1	60	28460	1	Standard
⌈>	Ge	72		ug/L			31037	30637	0	KED
|	Cu	63	39.182	ug/L	0.791	2	42	159565	1	KED
|	Cu	65	38.956	ug/L	0.839	2	15	80566	1	KED
|	Zn	66	72.613	ug/L	0.513	0	22	36752	0	KED
|	Zn	67	72.912	ug/L	3.167	4	4	6017	4	KED
⌊	As	75	7.143	ug/L	0.074	1	3	1764	1	KED
	Y	89		ug/L			38706	212682	1	Standard
	Kr	83		ug/L			31	72	9	Standard
⌈>	In-1	115		ug/L			6431	6400	2	KED
|	Cd	111	0.210	ug/L	0.016	7	3	51	8	KED
⌊	Cd	114	0.220	ug/L	0.010	4	0	130	7	KED
⌈>	In	115		ug/L			415168	420678	0	Standard
⌊	Ag	107	0.179	ug/L	0.003	1	37	2485	1	Standard
⌈>	Tb	159		ug/L			170846	202518	1	Standard
⌊	Pb	208	17.818	ug/L	0.280	1	364	1742837	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0393-28
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 23:49:08
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28285	51881	3	Standard
⌈>	**Sc**	**45**		ug/L			489773	566930	1	Standard
|	**Cr**	**52**	**14.201**	ug/L	0.102	0	8505	228254	1	Standard
⌊	**Cr**	**53**	**14.083**	ug/L	0.278	1	60	25058	2	Standard
⌈>	**Ge**	**72**		ug/L			31037	30561	1	KED
|	**Cu**	**63**	**28.446**	ug/L	0.330	1	42	115562	1	KED
|	**Cu**	**65**	**28.645**	ug/L	0.218	0	15	59097	1	KED
|	**Zn**	**66**	**56.512**	ug/L	0.566	1	22	28538	2	KED
|	**Zn**	**67**	**53.910**	ug/L	1.956	3	4	4438	1	KED
⌊	**As**	**75**	**7.179**	ug/L	0.024	0	3	1769	1	KED
	Y	**89**		ug/L			38706	208995	2	Standard
	Kr	**83**		ug/L			31	51	20	Standard
⌈>	**In-1**	**115**		ug/L			6431	6279	2	KED
|	**Cd**	**111**	**0.182**	ug/L	0.035	19	3	44	19	KED
⌊	**Cd**	**114**	**0.199**	ug/L	0.017	8	0	115	9	KED
⌈>	**In**	**115**		ug/L			415168	417569	1	Standard
⌊	**Ag**	**107**	**0.138**	ug/L	0.006	4	37	1912	4	Standard
⌈>	**Tb**	**159**		ug/L			170846	201351	0	Standard
⌊	**Pb**	**208**	**10.669**	ug/L	0.139	1	364	1037851	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0393-29
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 23:53:29
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28285	49899	2	Standard
⌈>	Sc	45		ug/L			489773	567089	0	Standard
|	Cr	52	12.901	ug/L	0.140	1	8505	208311	1	Standard
⌊	Cr	53	13.083	ug/L	0.127	0	60	23287	1	Standard
⌈>	Ge	72		ug/L			31037	30821	0	KED
|	Cu	63	28.687	ug/L	0.561	1	42	117542	2	KED
|	Cu	65	28.326	ug/L	0.191	0	15	58942	1	KED
|	Zn	66	52.330	ug/L	0.021	0	22	26652	0	KED
|	Zn	67	50.585	ug/L	1.246	2	4	4201	1	KED
⌊	As	75	6.717	ug/L	0.081	1	3	1669	1	KED
	Y	89		ug/L			38706	187086	0	Standard
	Kr	83		ug/L			31	66	7	Standard
⌈>	In-1	115		ug/L			6431	6311	1	KED
|	Cd	111	0.155	ug/L	0.022	13	3	38	12	KED
⌊	Cd	114	0.143	ug/L	0.032	22	0	83	22	KED
⌈>	In	115		ug/L			415168	420809	2	Standard
⌊	Ag	107	0.143	ug/L	0.009	6	37	1999	6	Standard
⌈>	Tb	159		ug/L			170846	200244	0	Standard
⌊	Pb	208	11.420	ug/L	0.084	0	364	1104767	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLH
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 23:58:08
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28285	31832	0	Standard
⌈>	**Sc**	**45**		ug/L			489773	467299	0	Standard
|	**Cr**	**52**	**0.004**	ug/L	0.018	499	8505	8160	2	Standard
⌊	**Cr**	**53**	**-0.009**	ug/L	0.006	64	60	44	20	Standard
⌈>	**Ge**	**72**		ug/L			31037	29981	2	KED
|	**Cu**	**63**	**0.002**	ug/L	0.004	215	42	47	28	KED
|	**Cu**	**65**	**0.005**	ug/L	0.001	11	15	25	4	KED
|	**Zn**	**66**	**-0.004**	ug/L	0.003	85	22	20	5	KED
|	**Zn**	**67**	**-0.014**	ug/L	0.036	251	4	3	91	KED
⌊	**As**	**75**	**-0.004**	ug/L	0.003	67	3	2	35	KED
	Y	**89**		ug/L			38706	38062	2	Standard
	Kr	**83**		ug/L			31	41	19	Standard
⌈>	**In-1**	**115**		ug/L			6431	6328	1	KED
|	**Cd**	**111**	**-0.003**	ug/L	0.006	254	3	2	57	KED
⌊	**Cd**	**114**	**0.003**	ug/L	0.002	61	0	2	47	KED
⌈>	**In**	**115**		ug/L			415168	418180	1	Standard
⌊	**Ag**	**107**	**-0.002**	ug/L	0.000	12	37	9	34	Standard
⌈>	**Tb**	**159**		ug/L			170846	168893	0	Standard
⌊	**Pb**	**208**	**-0.002**	ug/L	0.000	3	364	226	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVF
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 00:02:30
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28285	29659	3	Standard
⌈>	**Sc**	**45**		ug/L			489773	480703	0	Standard
|	**Cr**	**52**	**48.479**	ug/L	0.498	1	8505	640524	1	Standard
⌊	**Cr**	**53**	**48.514**	ug/L	0.954	1	60	73036	1	Standard
⌈>	**Ge**	**72**		ug/L			31037	31103	1	KED
|	**Cu**	**63**	**49.409**	ug/L	1.022	2	42	204227	0	KED
|	**Cu**	**65**	**48.614**	ug/L	0.529	1	15	102058	0	KED
|	**Zn**	**66**	**49.228**	ug/L	0.915	1	22	25297	0	KED
|	**Zn**	**67**	**50.442**	ug/L	1.345	2	4	4227	1	KED
⌊	**As**	**75**	**49.437**	ug/L	0.931	1	3	12379	0	KED
	Y	**89**		ug/L			38706	40704	0	Standard
	Kr	**83**		ug/L			31	31	3	Standard
⌈>	**In-1**	**115**		ug/L			6431	6305	2	KED
|	**Cd**	**111**	**48.641**	ug/L	1.833	3	3	11089	1	KED
⌊	**Cd**	**114**	**49.361**	ug/L	0.357	0	0	28717	1	KED
⌈>	**In**	**115**		ug/L			415168	414363	1	Standard
⌊	**Ag**	**107**	**50.273**	ug/L	1.203	2	37	678201	1	Standard
⌈>	**Tb**	**159**		ug/L			170846	177904	0	Standard
⌊	**Pb**	**208**	**49.193**	ug/L	0.355	0	364	4226831	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBF
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 00:09:36
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28285	27567	4	Standard
⌈>	**Sc**	**45**		ug/L			489773	470683	3	Standard
|	**Cr**	**52**	**0.001**	ug/L	0.013	1520	8505	8184	3	Standard
⌊	**Cr**	**53**	**0.000**	ug/L	0.001	1858	60	58	6	Standard
⌈>	**Ge**	**72**		ug/L			31037	30027	1	KED
|	**Cu**	**63**	**0.001**	ug/L	0.005	399	42	45	40	KED
|	**Cu**	**65**	**0.006**	ug/L	0.003	57	15	27	26	KED
|	**Zn**	**66**	**0.016**	ug/L	0.003	20	22	29	3	KED
|	**Zn**	**67**	**0.057**	ug/L	0.076	132	4	8	68	KED
⌊	**As**	**75**	**0.002**	ug/L	0.004	183	3	3	30	KED
	Y	**89**		ug/L			38706	39448	2	Standard
	Kr	**83**		ug/L			31	39	18	Standard
⌈>	**In-1**	**115**		ug/L			6431	6410	1	KED
|	**Cd**	**111**	**-0.010**	ug/L	0.000	0	3	0		KED
⌊	**Cd**	**114**	**0.007**	ug/L	0.007	103	0	4	91	KED
⌈>	**In**	**115**		ug/L			415168	414592	2	Standard
⌊	**Ag**	**107**	**0.000**	ug/L	0.001	12572	37	37	36	Standard
⌈>	**Tb**	**159**		ug/L			170846	169619	2	Standard
⌊	**Pb**	**208**	**-0.000**	ug/L	0.000	58	364	342	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0393-10
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, May 12, 2023 00:14:44
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28285	41192	3	Standard
⌈>	Sc	45		ug/L			489773	537924	1	Standard
|	Cr	52	17.195	ug/L	0.038	0	8505	260259	1	Standard
⌊	Cr	53	17.114	ug/L	0.108	0	60	28878	1	Standard
⌈>	Ge	72		ug/L			31037	30751	1	KED
|	Cu	63	32.218	ug/L	0.519	1	42	131679	0	KED
|	Cu	65	32.308	ug/L	0.742	2	15	67054	1	KED
|	Zn	66	103.263	ug/L	1.686	1	22	52440	0	KED
|	Zn	67	99.525	ug/L	3.246	3	4	8240	1	KED
⌊	As	75	24.542	ug/L	0.621	2	3	6077	1	KED
	Y	89		ug/L			38706	170292	1	Standard
	Kr	83		ug/L			31	60	10	Standard
⌈>	In-1	115		ug/L			6431	6331	1	KED
|	Cd	111	0.161	ug/L	0.013	7	3	40	8	KED
⌊	Cd	114	0.152	ug/L	0.010	6	0	89	5	KED
⌈>	In	115		ug/L			415168	437202	2	Standard
⌊	Ag	107	0.058	ug/L	0.004	6	37	866	3	Standard
⌈>	Tb	159		ug/L			170846	199684	1	Standard
⌊	Pb	208	42.091	ug/L	0.667	1	364	4059151	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0393-11
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, May 12, 2023 00:19:05
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28285	46899	1	Standard
⌈>	Sc	45		ug/L			489773	576312	1	Standard
|	Cr	52	13.207	ug/L	0.143	1	8505	216473	1	Standard
⌊	Cr	53	13.305	ug/L	0.255	1	60	24062	1	Standard
⌈>	Ge	72		ug/L			31037	30903	1	KED
|	Cu	63	26.300	ug/L	0.203	0	42	108053	1	KED
|	Cu	65	26.266	ug/L	0.263	0	15	54801	1	KED
|	Zn	66	67.223	ug/L	1.562	2	22	34315	1	KED
|	Zn	67	64.105	ug/L	1.911	2	4	5338	3	KED
⌊	As	75	7.939	ug/L	0.077	0	3	1978	2	KED
	Y	89		ug/L			38706	227750	2	Standard
	Kr	83		ug/L			31	74	23	Standard
⌈>	In-1	115		ug/L			6431	6240	1	KED
|	Cd	111	0.262	ug/L	0.029	11	3	62	11	KED
⌊	Cd	114	0.272	ug/L	0.019	6	0	157	8	KED
⌈>	In	115		ug/L			415168	425917	1	Standard
⌊	Ag	107	0.191	ug/L	0.006	3	37	2691	2	Standard
⌈>	Tb	159		ug/L			170846	202880	0	Standard
⌊	Pb	208	11.807	ug/L	0.091	0	364	1157220	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0393-12
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, May 12, 2023 00:23:26
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28285	41484	3	Standard
>	Sc	45		ug/L			489773	546627	3	Standard
	Cr	52	9.010	ug/L	0.019	0	8505	143092	3	Standard
	Cr	53	9.160	ug/L	0.059	0	60	15738	3	Standard
>	Ge	72		ug/L			31037	28599	12	KED
	Cu	63	14.960	ug/L	1.707	11	42	56374	1	KED
	Cu	65	14.786	ug/L	1.491	10	15	28324	2	KED
	Zn	66	34.869	ug/L	3.250	9	22	16363	3	KED
	Zn	67	33.803	ug/L	2.720	8	4	2591	6	KED
	As	75	2.476	ug/L	0.217	8	3	569	6	KED
	Y	89		ug/L			38706	154862	1	Standard
	Kr	83		ug/L			31	59	6	Standard
>	In-1	115		ug/L			6431	6434	6	KED
	Cd	111	0.075	ug/L	0.026	34	3	20	23	KED
	Cd	114	0.103	ug/L	0.042	40	0	60	33	KED
>	In	115		ug/L			415168	445756	1	Standard
	Ag	107	0.045	ug/L	0.002	4	37	696	3	Standard
>	Tb	159		ug/L			170846	199553	2	Standard
	Pb	208	5.418	ug/L	0.046	0	364	522497	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0393-15
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, May 12, 2023 00:27:56
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28285	42224	2	Standard
⌈>	Sc	45		ug/L			489773	535637	0	Standard
|	Cr	52	9.457	ug/L	0.202	2	8505	146712	2	Standard
⌊	Cr	53	9.378	ug/L	0.119	1	60	15786	1	Standard
⌈>	Ge	72		ug/L			31037	31058	1	KED
|	Cu	63	75.439	ug/L	1.685	2	42	311361	1	KED
|	Cu	65	74.439	ug/L	0.979	1	15	156046	1	KED
|	Zn	66	43.994	ug/L	0.484	1	22	22580	0	KED
|	Zn	67	42.128	ug/L	0.370	0	4	3526	0	KED
⌊	As	75	8.261	ug/L	0.192	2	3	2069	3	KED
	Y	89		ug/L			38706	139700	1	Standard
	Kr	83		ug/L			31	55	3	Standard
⌈>	In-1	115		ug/L			6431	6514	2	KED
|	Cd	111	0.032	ug/L	0.007	22	3	10	13	KED
⌊	Cd	114	0.043	ug/L	0.012	28	0	26	28	KED
⌈>	In	115		ug/L			415168	444508	1	Standard
⌊	Ag	107	0.042	ug/L	0.001	2	37	654	2	Standard
⌈>	Tb	159		ug/L			170846	195982	1	Standard
⌊	Pb	208	28.410	ug/L	0.566	1	364	2689074	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0393-16
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, May 12, 2023 00:34:00
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28285	43330	4	Standard
⌈>	**Sc**	**45**		ug/L			489773	543847	1	Standard
|	**Cr**	**52**	**14.647**	ug/L	0.188	1	8505	225535	2	Standard
⌊	**Cr**	**53**	**14.718**	ug/L	0.010	0	60	25116	1	Standard
⌈>	**Ge**	**72**		ug/L			31037	30556	0	KED
|	**Cu**	**63**	**14.442**	ug/L	0.034	0	42	58689	0	KED
|	**Cu**	**65**	**14.013**	ug/L	0.412	2	15	28913	2	KED
|	**Zn**	**66**	**41.095**	ug/L	0.502	1	22	20756	1	KED
|	**Zn**	**67**	**40.225**	ug/L	0.124	0	4	3313	0	KED
⌊	**As**	**75**	**2.709**	ug/L	0.046	1	3	669	1	KED
	Y	**89**		ug/L			38706	151607	1	Standard
	Kr	**83**		ug/L			31	50	19	Standard
⌈>	**In-1**	**115**		ug/L			6431	6526	3	KED
|	**Cd**	**111**	**0.069**	ug/L	0.014	20	3	19	15	KED
⌊	**Cd**	**114**	**0.034**	ug/L	0.006	16	0	21	19	KED
⌈>	**In**	**115**		ug/L			415168	430357	1	Standard
⌊	**Ag**	**107**	**0.046**	ug/L	0.005	11	37	678	8	Standard
⌈>	**Tb**	**159**		ug/L			170846	196157	0	Standard
⌊	**Pb**	**208**	**8.682**	ug/L	0.035	0	364	822876	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0393-17
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, May 12, 2023 00:38:45
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28285	39815	5	Standard
⌈>	**Sc**	**45**		ug/L			489773	532303	1	Standard
|	**Cr**	**52**	**12.534**	ug/L	0.232	1	8505	190251	2	Standard
⌊	**Cr**	**53**	**12.561**	ug/L	0.168	1	60	20988	1	Standard
⌈>	**Ge**	**72**		ug/L			31037	30796	1	KED
|	**Cu**	**63**	**14.010**	ug/L	0.306	2	42	57374	1	KED
|	**Cu**	**65**	**13.817**	ug/L	0.060	0	15	28734	0	KED
|	**Zn**	**66**	**45.726**	ug/L	0.267	0	22	23273	1	KED
|	**Zn**	**67**	**44.094**	ug/L	1.961	4	4	3659	3	KED
⌊	**As**	**75**	**3.287**	ug/L	0.027	0	3	818	0	KED
	Y	**89**		ug/L			38706	134234	3	Standard
	Kr	**83**		ug/L			31	50	15	Standard
⌈>	**In-1**	**115**		ug/L			6431	6444	1	KED
|	**Cd**	**111**	**0.048**	ug/L	0.004	9	3	14	6	KED
⌊	**Cd**	**114**	**0.053**	ug/L	0.005	9	0	32	9	KED
⌈>	**In**	**115**		ug/L			415168	439159	1	Standard
⌊	**Ag**	**107**	**0.041**	ug/L	0.002	5	37	619	4	Standard
⌈>	**Tb**	**159**		ug/L			170846	196027	0	Standard
⌊	**Pb**	**208**	**19.957**	ug/L	0.049	0	364	1889730	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0393-18
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, May 12, 2023 00:43:06
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28285	50409	2	Standard
⌈>	**Sc**	**45**		ug/L			489773	544792	1	Standard
|	**Cr**	**52**	**7.985**	ug/L	0.015	0	8505	127459	1	Standard
⌊	**Cr**	**53**	**8.110**	ug/L	0.084	1	60	13892	1	Standard
⌈>	**Ge**	**72**		ug/L			31037	30737	1	KED
|	**Cu**	**63**	**15.977**	ug/L	0.152	0	42	65303	0	KED
|	**Cu**	**65**	**16.043**	ug/L	0.241	1	15	33296	0	KED
|	**Zn**	**66**	**16.443**	ug/L	0.313	1	22	8366	0	KED
|	**Zn**	**67**	**16.934**	ug/L	0.147	0	4	1405	1	KED
⌊	**As**	**75**	**3.950**	ug/L	0.069	1	3	980	0	KED
	Y	**89**		ug/L			38706	126181	1	Standard
	Kr	**83**		ug/L			31	52	5	Standard
⌈>	**In-1**	**115**		ug/L			6431	6406	2	KED
|	**Cd**	**111**	**0.022**	ug/L	0.018	80	3	8	48	KED
⌊	**Cd**	**114**	**0.022**	ug/L	0.003	15	0	13	15	KED
⌈>	**In**	**115**		ug/L			415168	442957	1	Standard
⌊	**Ag**	**107**	**0.047**	ug/L	0.000	0	37	723	1	Standard
⌈>	**Tb**	**159**		ug/L			170846	195223	1	Standard
⌊	**Pb**	**208**	**4.130**	ug/L	0.011	0	364	389818	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0393-19
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, May 12, 2023 00:47:27
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28285	37159	5	Standard
⌈>	Sc	45		ug/L			489773	548709	2	Standard
|	Cr	52	15.393	ug/L	0.345	2	8505	238573	0	Standard
⌊	Cr	53	15.508	ug/L	0.188	1	60	26691	1	Standard
⌈>	Ge	72		ug/L			31037	30172	1	KED
|	Cu	63	48.799	ug/L	0.476	0	42	195698	0	KED
|	Cu	65	48.099	ug/L	0.245	0	15	97965	1	KED
|	Zn	66	140.370	ug/L	0.622	0	22	69950	1	KED
|	Zn	67	133.546	ug/L	3.576	2	4	10852	3	KED
⌊	As	75	15.238	ug/L	0.247	1	3	3703	0	KED
	Y	89		ug/L			38706	186543	3	Standard
	Kr	83		ug/L			31	55	5	Standard
⌈>	In-1	115		ug/L			6431	6548	1	KED
|	Cd	111	0.120	ug/L	0.036	30	3	31	27	KED
⌊	Cd	114	0.071	ug/L	0.012	16	0	43	16	KED
⌈>	In	115		ug/L			415168	438647	1	Standard
⌊	Ag	107	0.043	ug/L	0.002	5	37	652	6	Standard
⌈>	Tb	159		ug/L			170846	199150	1	Standard
⌊	Pb	208	28.845	ug/L	0.420	1	364	2774307	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0393-22
Sample Dil Factor: 20
Comments:
Sample Date/Time: Friday, May 12, 2023 00:51:48
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28285	43064	3	Standard
⌈>	Sc	45		ug/L			489773	558439	1	Standard
|	Cr	52	44.150	ug/L	0.302	0	8505	678482	0	Standard
⌊	Cr	53	43.988	ug/L	0.585	1	60	76948	2	Standard
⌈>	Ge	72		ug/L			31037	30590	0	KED
|	Cu	63	595.340	ug/L	7.490	1	42	2420198	1	KED
|	Cu	65	551.170	ug/L	3.704	0	15	1137954	0	KED
|	Zn	66	207.307	ug/L	3.398	1	22	104721	1	KED
|	Zn	67	197.681	ug/L	3.122	1	4	16283	1	KED
⌊	As	75	8.626	ug/L	0.068	0	3	2127	1	KED
	Y	89		ug/L			38706	220432	1	Standard
	Kr	83		ug/L			31	66	9	Standard
⌈>	In-1	115		ug/L			6431	6200	1	KED
|	Cd	111	0.300	ug/L	0.036	12	3	70	10	KED
⌊	Cd	114	0.328	ug/L	0.046	14	0	188	15	KED
⌈>	In	115		ug/L			415168	414710	1	Standard
⌊	Ag	107	0.141	ug/L	0.008	5	37	1944	7	Standard
⌈>	Tb	159		ug/L			170846	198068	1	Standard
⌊	Pb	208	104.657	ug/L	2.616	2	364	10008661	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLI
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 00:56:10
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28285	31692	4	Standard
⌈>	**Sc**	**45**		ug/L			489773	462144	1	Standard
|	**Cr**	**52**	**0.022**	ug/L	0.008	38	8505	8304	2	Standard
⌊	**Cr**	**53**	**-0.004**	ug/L	0.003	82	60	52	6	Standard
⌈>	**Ge**	**72**		ug/L			31037	30135	0	KED
|	**Cu**	**63**	**0.053**	ug/L	0.005	9	42	253	7	KED
|	**Cu**	**65**	**0.060**	ug/L	0.004	7	15	137	6	KED
|	**Zn**	**66**	**0.032**	ug/L	0.016	49	22	38	20	KED
|	**Zn**	**67**	**0.025**	ug/L	0.076	300	4	6	96	KED
⌊	**As**	**75**	**0.001**	ug/L	0.002	185	3	3	14	KED
	Y	**89**		ug/L			38706	38668	3	Standard
	Kr	**83**		ug/L			31	33	37	Standard
⌈>	**In-1**	**115**		ug/L			6431	6204	1	KED
|	**Cd**	**111**	**-0.008**	ug/L	0.002	29	3	1	43	KED
⌊	**Cd**	**114**	**0.004**	ug/L	0.002	38	0	2	32	KED
⌈>	**In**	**115**		ug/L			415168	416951	4	Standard
⌊	**Ag**	**107**	**-0.002**	ug/L	0.000	21	37	13	34	Standard
⌈>	**Tb**	**159**		ug/L			170846	171074	0	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	20	364	461	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVG
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 01:00:32
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28285	28687	6	Standard
⌈>	**Sc**	**45**		ug/L			489773	479894	2	Standard
|	**Cr**	**52**	**48.044**	ug/L	0.832	1	8505	633573	1	Standard
⌊	**Cr**	**53**	**48.145**	ug/L	0.311	0	60	72354	2	Standard
⌈>	**Ge**	**72**		ug/L			31037	30420	1	KED
|	**Cu**	**63**	**50.248**	ug/L	1.371	2	42	203123	1	KED
|	**Cu**	**65**	**49.783**	ug/L	0.973	1	15	102219	1	KED
|	**Zn**	**66**	**50.436**	ug/L	1.595	3	22	25347	2	KED
|	**Zn**	**67**	**52.050**	ug/L	1.297	2	4	4266	0	KED
⌊	**As**	**75**	**49.192**	ug/L	0.767	1	3	12048	0	KED
	Y	**89**		ug/L			38706	39850	1	Standard
	Kr	**83**		ug/L			31	45	7	Standard
⌈>	**In-1**	**115**		ug/L			6431	6340	1	KED
|	**Cd**	**111**	**48.689**	ug/L	0.297	0	3	11168	1	KED
⌊	**Cd**	**114**	**49.469**	ug/L	1.021	2	0	28938	0	KED
⌈>	**In**	**115**		ug/L			415168	415978	1	Standard
⌊	**Ag**	**107**	**48.907**	ug/L	0.542	1	37	662378	1	Standard
⌈>	**Tb**	**159**		ug/L			170846	177816	0	Standard
⌊	**Pb**	**208**	**49.451**	ug/L	0.721	1	364	4246608	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBG
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 01:07:38
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28285	27566	2	Standard
⌈>	**Sc**	**45**		ug/L			489773	475006	1	Standard
|	**Cr**	**52**	**-0.004**	ug/L	0.008	216	8505	8199	2	Standard
⌊	**Cr**	**53**	**-0.008**	ug/L	0.008	92	60	46	26	Standard
⌈>	**Ge**	**72**		ug/L			31037	29889	0	KED
|	**Cu**	**63**	**0.014**	ug/L	0.007	50	42	95	28	KED
|	**Cu**	**65**	**0.019**	ug/L	0.004	21	15	53	15	KED
|	**Zn**	**66**	**0.013**	ug/L	0.017	125	22	28	29	KED
|	**Zn**	**67**	**0.010**	ug/L	0.037	360	4	5	57	KED
⌊	**As**	**75**	**0.000**	ug/L	0.006	1348	3	3	48	KED
	Y	**89**		ug/L			38706	38925	1	Standard
	Kr	**83**		ug/L			31	48	8	Standard
⌈>	**In-1**	**115**		ug/L			6431	6244	0	KED
|	**Cd**	**111**	**0.006**	ug/L	0.010	161	3	4	49	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.002	185	0	1	102	KED
⌈>	**In**	**115**		ug/L			415168	430066	1	Standard
⌊	**Ag**	**107**	**-0.000**	ug/L	0.001	220	37	32	45	Standard
⌈>	**Tb**	**159**		ug/L			170846	168062	0	Standard
⌊	**Pb**	**208**	**-0.000**	ug/L	0.000	17	364	328	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0393-04RE1
Sample Dil Factor: 2000
Comments:
Sample Date/Time: Friday, May 12, 2023 01:12:00
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28285	30551	4	Standard
⌈>	**Sc**	**45**		ug/L			489773	472324	2	Standard
|	**Cr**	**52**	**1.000**	ug/L	0.022	2	8505	21019	2	Standard
⌊	**Cr**	**53**	**1.004**	ug/L	0.006	0	60	1541	1	Standard
⌈>	**Ge**	**72**		ug/L			31037	30398	2	KED
|	**Cu**	**63**	**28.936**	ug/L	0.761	2	42	116874	0	KED
|	**Cu**	**65**	**29.260**	ug/L	0.186	0	15	60048	3	KED
|	**Zn**	**66**	**87.620**	ug/L	1.525	1	22	43982	1	KED
|	**Zn**	**67**	**83.917**	ug/L	1.102	1	4	6870	1	KED
⌊	**As**	**75**	**11.907**	ug/L	0.373	3	3	2915	1	KED
	Y	**89**		ug/L			38706	41079	3	Standard
	Kr	**83**		ug/L			31	46	31	Standard
⌈>	**In-1**	**115**		ug/L			6431	6427	0	KED
|	**Cd**	**111**	**0.057**	ug/L	0.014	23	3	16	18	KED
⌊	**Cd**	**114**	**0.069**	ug/L	0.014	20	0	41	20	KED
⌈>	**In**	**115**		ug/L			415168	427647	2	Standard
⌊	**Ag**	**107**	**0.017**	ug/L	0.002	9	37	274	10	Standard
⌈>	**Tb**	**159**		ug/L			170846	174643	0	Standard
⌊	**Pb**	**208**	**11.481**	ug/L	0.110	0	364	968692	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0072-DUP3
Sample Dil Factor: 2000
Comments:
Sample Date/Time: Friday, May 12, 2023 01:16:22
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28285	30898	3	Standard
⌈>	**Sc**	**45**		ug/L			489773	488984	1	Standard
|	**Cr**	**52**	**0.958**	ug/L	0.014	1	8505	21205	2	Standard
⌊	**Cr**	**53**	**0.982**	ug/L	0.028	2	60	1564	3	Standard
⌈>	**Ge**	**72**		ug/L			31037	31407	0	KED
|	**Cu**	**63**	**31.207**	ug/L	0.191	0	42	130300	1	KED
|	**Cu**	**65**	**30.125**	ug/L	0.377	1	15	63877	1	KED
|	**Zn**	**66**	**86.830**	ug/L	0.595	0	22	45047	0	KED
|	**Zn**	**67**	**84.346**	ug/L	1.688	2	4	7135	1	KED
⌊	**As**	**75**	**11.642**	ug/L	0.015	0	3	2946	0	KED
	Y	**89**		ug/L			38706	43238	2	Standard
	Kr	**83**		ug/L			31	40	2	Standard
⌈>	**In-1**	**115**		ug/L			6431	6515	3	KED
|	**Cd**	**111**	**0.052**	ug/L	0.019	36	3	15	30	KED
⌊	**Cd**	**114**	**0.078**	ug/L	0.002	2	0	47	1	KED
⌈>	**In**	**115**		ug/L			415168	444475	1	Standard
⌊	**Ag**	**107**	**0.016**	ug/L	0.002	10	37	276	7	Standard
⌈>	**Tb**	**159**		ug/L			170846	175642	1	Standard
⌊	**Pb**	**208**	**11.306**	ug/L	0.135	1	364	959316	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0072-MS3
Sample Dil Factor: 2000
Comments:
Sample Date/Time: Friday, May 12, 2023 01:20:43
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte		Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C		13		ug/L			28285	30807	4	Standard
⌈>	Sc		45		ug/L			489773	490648	1	Standard
|	Cr		52	1.258	ug/L	0.023	1	8505	25260	2	Standard
⌊	Cr		53	1.264	ug/L	0.044	3	60	2001	3	Standard
⌈>	Ge		72		ug/L			31037	31055	2	KED
|	Cu	STL	63	33.693	ug/L	0.891	2	42	139054	2	KED
|	Cu		65	33.044	ug/L	0.837	2	15	69247	0	KED
|	Zn	STL	66	94.281	ug/L	1.711	1	22	48349	0	KED
|	Zn		67	86.973	ug/L	1.658	1	4	7273	0	KED
⌊	As		75	12.936	ug/L	0.137	1	3	3237	2	KED
	Y		89		ug/L			38706	42287	1	Standard
	Kr		83		ug/L			31	35	18	Standard
⌈>	In-1		115		ug/L			6431	6456	2	KED
|	Cd		111	0.280	ug/L	0.068	24	3	68	24	KED
⌊	Cd		114	0.306	ug/L	0.047	15	0	182	13	KED
⌈>	In		115		ug/L			415168	450507	2	Standard
⌊	Ag		107	0.101	ug/L	0.002	2	37	1523	3	Standard
⌈>	Tb		159		ug/L			170846	179202	1	Standard
⌊	Pb		208	11.787	ug/L	0.139	1	364	1020315	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0072-MSD3
Sample Dil Factor: 2000
Comments:
Sample Date/Time: Friday, May 12, 2023 01:25:04
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte		Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C		13		ug/L			28285	30391	3	Standard
>	Sc		45		ug/L			489773	486050	0	Standard
	Cr		52	1.289	ug/L	0.016	1	8505	25435	0	Standard
	Cr		53	1.272	ug/L	0.034	2	60	1995	2	Standard
>	Ge		72		ug/L			31037	30597	0	KED
	Cu	STL	63	31.232	ug/L	0.304	0	42	127032	0	KED
	Cu		65	30.820	ug/L	0.571	1	15	63657	1	KED
	Zn	STL	66	95.342	ug/L	2.089	2	22	48183	1	KED
	Zn		67	92.251	ug/L	0.612	0	4	7603	0	KED
	As		75	14.360	ug/L	0.327	2	3	3539	1	KED
	Y		89		ug/L			38706	43671	3	Standard
	Kr		83		ug/L			31	26	14	Standard
>	In-1		115		ug/L			6431	6440	1	KED
	Cd		111	0.295	ug/L	0.047	15	3	71	14	KED
	Cd		114	0.338	ug/L	0.041	12	0	201	11	KED
>	In		115		ug/L			415168	449398	1	Standard
	Ag		107	0.102	ug/L	0.001	1	37	1530	2	Standard
>	Tb		159		ug/L			170846	179486	1	Standard
	Pb		208	12.545	ug/L	0.158	1	364	1087663	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0393-04
Sample Dil Factor: 200
Comments:
Sample Date/Time: Friday, May 12, 2023 01:29:20
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28285	30631	5	Standard
⌈>	**Sc**	**45**		ug/L			489773	493335	3	Standard
|	**Cr**	**52**	**9.547**	ug/L	0.169	1	8505	136286	1	Standard
⌊	**Cr**	**53**	**9.509**	ug/L	0.285	2	60	14734	2	Standard
⌈>	**Ge**	**72**		ug/L			31037	31482	0	KED
|	**Cu**	**63**	**281.221**	ug/L	1.937	0	42	1176615	0	KED
|	**Cu**	**65**	**277.319**	ug/L	2.161	0	15	589274	0	KED
|	**Zn**	**66**	**852.097**	ug/L	9.023	1	22	442931	1	KED
|	**Zn**	**67**	**803.366**	ug/L	16.409	2	4	68094	2	KED
⌊	**As**	**75**	**115.076**	ug/L	0.981	0	3	29167	0	KED
	Y	**89**		ug/L			38706	61146	0	Standard
	Kr	**83**		ug/L			31	47	8	Standard
⌈>	**In-1**	**115**		ug/L			6431	7352	1	KED
|	**Cd**	**111**	**0.508**	ug/L	0.035	6	3	138	5	KED
⌊	**Cd**	**114**	**0.493**	ug/L	0.037	7	0	334	6	KED
⌈>	**In**	**115**		ug/L			415168	503740	1	Standard
⌊	**Ag**	**107**	**0.156**	ug/L	0.005	3	37	2600	2	Standard
⌈>	**Tb**	**159**		ug/L			170846	182208	1	Standard
⌊	**Pb**	**208**	**115.229**	ug/L	1.114	0	364	10140173	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0072-DUP2
Sample Dil Factor: 200
Comments:
Sample Date/Time: Friday, May 12, 2023 01:34:05
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28285	30139	3	Standard
>	Sc	45		ug/L			489773	482233	0	Standard
	Cr	52	9.224	ug/L	0.039	0	8505	129036	0	Standard
	Cr	53	9.294	ug/L	0.107	1	60	14085	0	Standard
>	Ge	72		ug/L			31037	31019	0	KED
	Cu	63	296.799	ug/L	8.170	2	42	1223536	2	KED
	Cu	65	290.840	ug/L	4.591	1	15	608916	1	KED
	Zn	66	837.327	ug/L	7.595	0	22	428850	0	KED
	Zn	67	797.723	ug/L	16.671	2	4	66622	2	KED
	As	75	113.575	ug/L	1.088	0	3	28363	0	KED
	Y	89		ug/L			38706	62481	1	Standard
	Kr	83		ug/L			31	47	6	Standard
>	In-1	115		ug/L			6431	7466	2	KED
	Cd	111	0.597	ug/L	0.075	12	3	164	11	KED
	Cd	114	0.556	ug/L	0.063	11	0	384	12	KED
>	In	115		ug/L			415168	489865	2	Standard
	Ag	107	0.164	ug/L	0.005	3	37	2658	4	Standard
>	Tb	159		ug/L			170846	177530	2	Standard
	Pb	208	114.260	ug/L	2.317	2	364	9793943	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0072-MS2
Sample Dil Factor: 200
Comments:
Sample Date/Time: Friday, May 12, 2023 01:38:51
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28285	29199	3	Standard
>	Sc	45		ug/L			489773	481935	1	Standard
	Cr	52	12.086	ug/L	0.171	1	8505	166389	2	Standard
	Cr	53	12.337	ug/L	0.230	1	60	18663	1	Standard
>	Ge	72		ug/L			31037	30385	2	KED
	Cu	63	324.911	ug/L	8.767	2	42	1311520	1	KED
	Cu	65	320.907	ug/L	4.283	1	15	657992	1	KED
	Zn	66	913.322	ug/L	20.769	2	22	458051	0	KED
	Zn	67	843.494	ug/L	16.438	1	4	68983	0	KED
	As STL	75	126.687	ug/L	2.649	2	3	30981	0	KED
	Y	89		ug/L			38706	60811	5	Standard
	Kr	83		ug/L			31	49	7	Standard
>	In-1	115		ug/L			6431	7279	1	KED
	Cd	111	2.577	ug/L	0.147	5	3	681	4	KED
	Cd	114	2.545	ug/L	0.104	4	0	1709	2	KED
>	In	115		ug/L			415168	491629	0	Standard
	Ag	107	0.914	ug/L	0.033	3	37	14672	3	Standard
>	Tb	159		ug/L			170846	175848	2	Standard
	Pb STL	208	123.651	ug/L	2.529	2	364	10499446	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0072-MSD2
Sample Dil Factor: 200
Comments:
Sample Date/Time: Friday, May 12, 2023 01:43:36
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			28285	29253	2	Standard
>	Sc	45		ug/L			489773	478491	1	Standard
	Cr	52	12.000	ug/L	0.155	1	8505	164058	1	Standard
	Cr	53	12.342	ug/L	0.018	0	60	18540	1	Standard
>	Ge	72		ug/L			31037	29516	1	KED
	Cu	63	298.398	ug/L	6.261	2	42	1170402	1	KED
	Cu	65	299.647	ug/L	9.493	3	15	596840	2	KED
	Zn	66	934.941	ug/L	10.807	1	22	455607	0	KED
	Zn	67	876.581	ug/L	20.255	2	4	69647	1	KED
	As STL	75	139.598	ug/L	2.184	1	3	33169	0	KED
	Y	89		ug/L			38706	61352	0	Standard
	Kr	83		ug/L			31	49	0	Standard
>	In-1	115		ug/L			6431	7369	0	KED
	Cd	111	2.591	ug/L	0.172	6	3	694	6	KED
	Cd	114	2.626	ug/L	0.197	7	0	1786	8	KED
>	In	115		ug/L			415168	485755	2	Standard
	Ag	107	0.915	ug/L	0.014	1	37	14513	1	Standard
>	Tb	159		ug/L			170846	177756	1	Standard
	Pb STL	208	127.749	ug/L	2.128	1	364	10965682	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0072-PS2
Sample Dil Factor: 200
Comments:
Sample Date/Time: Friday, May 12, 2023 01:49:22
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28285	30713	3	Standard
⌈>	**Sc**	**45**		ug/L			489773	480926	2	Standard
|	**Cr**	**52**	**33.128**	ug/L	0.619	1	8505	440421	1	Standard
⌊	**Cr**	**53**	**33.458**	ug/L	0.662	1	60	50398	0	Standard
⌈>	**Ge**	**72**		ug/L			31037	29561	0	KED
|	**Cu**	**63**	**308.592**	ug/L	4.739	1	42	1212252	0	KED
|	**Cu**	**65**	**304.340**	ug/L	5.202	1	15	607177	0	KED
|	**Zn**	**66**	**946.721**	ug/L	8.030	0	22	462068	0	KED
|	**Zn**	**67**	**878.577**	ug/L	8.175	0	4	69928	1	KED
⌊	**As**	**75**	**140.870**	ug/L	1.866	1	3	33524	0	KED
	Y	**89**		ug/L			38706	65298	1	Standard
	Kr	**83**		ug/L			31	56	10	Standard
⌈>	**In-1**	**115**		ug/L			6431	6960	1	KED
|	**Cd**	**111**	**22.267**	ug/L	0.592	2	3	5608	2	KED
⌊	**Cd**	**114**	**22.783**	ug/L	0.148	0	0	14632	0	KED
⌈>	**In**	**115**		ug/L			415168	488552	0	Standard
⌊	**Ag**	**107**	**22.205**	ug/L	0.197	0	37	353249	0	Standard
⌈>	**Tb**	**159**		ug/L			170846	174800	0	Standard
⌊	**Pb**	**208**	**146.960**	ug/L	0.816	0	364	12406204	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLJ
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 01:54:08
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28285	29657	1	Standard
⌈>	**Sc**	**45**		ug/L			489773	453739	1	Standard
|	**Cr**	**52**	**0.003**	ug/L	0.008	251	8505	7919	1	Standard
⌊	**Cr**	**53**	**-0.012**	ug/L	0.002	16	60	39	6	Standard
⌈>	**Ge**	**72**		ug/L			31037	28655	1	KED
|	**Cu**	**63**	**0.053**	ug/L	0.003	5	42	242	5	KED
|	**Cu**	**65**	**0.049**	ug/L	0.002	4	15	109	2	KED
|	**Zn**	**66**	**0.043**	ug/L	0.013	29	22	41	14	KED
|	**Zn**	**67**	**0.013**	ug/L	0.029	227	4	5	43	KED
⌊	**As**	**75**	**0.018**	ug/L	0.009	50	3	7	29	KED
	Y	**89**		ug/L			38706	39024	2	Standard
	Kr	**83**		ug/L			31	44	19	Standard
⌈>	**In-1**	**115**		ug/L			6431	6089	2	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.005	222	3	2	43	KED
⌊	**Cd**	**114**	**0.009**	ug/L	0.015	166	0	5	151	KED
⌈>	**In**	**115**		ug/L			415168	420505	1	Standard
⌊	**Ag**	**107**	**0.000**	ug/L	0.001	261	37	40	17	Standard
⌈>	**Tb**	**159**		ug/L			170846	168070	1	Standard
⌊	**Pb**	**208**	**0.002**	ug/L	0.000	11	364	556	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVH
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 01:58:24
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28285	28472	1	Standard
⌈>	**Sc**	**45**		ug/L			489773	474949	1	Standard
|	**Cr**	**52**	**47.965**	ug/L	0.470	0	8505	626152	1	Standard
⌊	**Cr**	**53**	**47.875**	ug/L	0.742	1	60	71220	2	Standard
⌈>	**Ge**	**72**		ug/L			31037	29215	0	KED
|	**Cu**	**63**	**50.335**	ug/L	0.996	1	42	195466	1	KED
|	**Cu**	**65**	**50.159**	ug/L	1.239	2	15	98918	2	KED
|	**Zn**	**66**	**49.688**	ug/L	0.599	1	22	23989	1	KED
|	**Zn**	**67**	**50.926**	ug/L	2.453	4	4	4010	5	KED
⌊	**As**	**75**	**50.121**	ug/L	0.499	0	3	11791	0	KED
	Y	**89**		ug/L			38706	40881	2	Standard
	Kr	**83**		ug/L			31	43	18	Standard
⌈>	**In-1**	**115**		ug/L			6431	6076	4	KED
|	**Cd**	**111**	**49.124**	ug/L	0.705	1	3	10793	3	KED
⌊	**Cd**	**114**	**49.453**	ug/L	1.521	3	0	27702	1	KED
⌈>	**In**	**115**		ug/L			415168	418925	2	Standard
⌊	**Ag**	**107**	**49.536**	ug/L	1.188	2	37	675500	1	Standard
⌈>	**Tb**	**159**		ug/L			170846	174901	0	Standard
⌊	**Pb**	**208**	**50.663**	ug/L	0.504	0	364	4279485	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBH
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 02:05:31
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28285	26731	1	Standard
⌈>	**Sc**	**45**		ug/L			489773	453624	3	Standard
|	**Cr**	**52**	**0.014**	ug/L	0.017	125	8505	8044	1	Standard
⌊	**Cr**	**53**	**0.002**	ug/L	0.005	261	60	59	11	Standard
⌈>	**Ge**	**72**		ug/L			31037	29444	1	KED
|	**Cu**	**63**	**0.032**	ug/L	0.005	15	42	165	12	KED
|	**Cu**	**65**	**0.029**	ug/L	0.003	11	15	71	9	KED
|	**Zn**	**66**	**0.025**	ug/L	0.016	65	22	33	23	KED
|	**Zn**	**67**	**-0.021**	ug/L	0.036	168	4	2	114	KED
⌊	**As**	**75**	**-0.001**	ug/L	0.004	330	3	2	36	KED
	Y	**89**		ug/L			38706	38946	2	Standard
	Kr	**83**		ug/L			31	37	32	Standard
⌈>	**In-1**	**115**		ug/L			6431	6118	1	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.007	303	3	2	57	KED
⌊	**Cd**	**114**	**0.004**	ug/L	0.002	39	0	2	34	KED
⌈>	**In**	**115**		ug/L			415168	413830	2	Standard
⌊	**Ag**	**107**	**0.000**	ug/L	0.001	422	37	39	21	Standard
⌈>	**Tb**	**159**		ug/L			170846	164294	1	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	30	364	455	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0568-03RE1
Sample Dil Factor: 200
Comments:
Sample Date/Time: Friday, May 12, 2023 02:09:53
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28285	30624	3	Standard
⌈>	**Sc**	**45**		ug/L			489773	487192	2	Standard
|	**Cr**	**52**	**3.273**	ug/L	0.129	3	8505	51694	1	Standard
⌊	**Cr**	**53**	**3.350**	ug/L	0.083	2	60	5165	0	Standard
⌈>	**Ge**	**72**		ug/L			31037	29906	1	KED
|	**Cu**	**63**	**13.945**	ug/L	0.345	2	42	55451	1	KED
|	**Cu**	**65**	**13.640**	ug/L	0.160	1	15	27545	0	KED
|	**Zn**	**66**	**18.522**	ug/L	0.095	0	22	9167	0	KED
|	**Zn**	**67**	**17.125**	ug/L	0.234	1	4	1382	0	KED
⌊	**As**	**75**	**1.939**	ug/L	0.093	4	3	470	5	KED
	Y	**89**		ug/L			38706	51426	1	Standard
	Kr	**83**		ug/L			31	39	7	Standard
⌈>	**In-1**	**115**		ug/L			6431	6213	2	KED
|	**Cd**	**111**	**1.349**	ug/L	0.021	1	3	306	3	KED
⌊	**Cd**	**114**	**1.338**	ug/L	0.052	3	0	767	4	KED
⌈>	**In**	**115**		ug/L			415168	433493	2	Standard
⌊	**Ag**	**107**	**0.013**	ug/L	0.001	7	37	228	4	Standard
⌈>	**Tb**	**159**		ug/L			170846	176763	1	Standard
⌊	**Pb**	**208**	**78.292**	ug/L	0.952	1	364	6682947	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0568-07RE1
Sample Dil Factor: 50
Comments:
Sample Date/Time: Friday, May 12, 2023 02:14:09
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28285	35262	3	Standard
⌈>	**Sc**	**45**		ug/L			489773	498833	2	Standard
|	**Cr**	**52**	**6.919**	ug/L	0.161	2	8505	102262	1	Standard
⌊	**Cr**	**53**	**7.160**	ug/L	0.284	3	60	11232	1	Standard
⌈>	**Ge**	**72**		ug/L			31037	29425	2	KED
|	**Cu**	**63**	**21.746**	ug/L	0.149	0	42	85074	2	KED
|	**Cu**	**65**	**21.605**	ug/L	0.331	1	15	42917	2	KED
|	**Zn**	**66**	**78.657**	ug/L	1.499	1	22	38225	0	KED
|	**Zn**	**67**	**75.072**	ug/L	3.238	4	4	5947	1	KED
⌊	**As**	**75**	**2.013**	ug/L	0.032	1	3	479	1	KED
	Y	**89**		ug/L			38706	110324	2	Standard
	Kr	**83**		ug/L			31	43	5	Standard
⌈>	**In-1**	**115**		ug/L			6431	6245	0	KED
|	**Cd**	**111**	**0.158**	ug/L	0.056	35	3	38	31	KED
⌊	**Cd**	**114**	**0.213**	ug/L	0.003	1	0	122	2	KED
⌈>	**In**	**115**		ug/L			415168	417940	1	Standard
⌊	**Ag**	**107**	**0.054**	ug/L	0.002	3	37	767	1	Standard
⌈>	**Tb**	**159**		ug/L			170846	184577	1	Standard
⌊	**Pb**	**208**	**10.989**	ug/L	0.080	0	364	979909	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0568-08RE1
Sample Dil Factor: 50
Comments:
Sample Date/Time: Friday, May 12, 2023 02:18:24
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28285	31596	3	Standard
⌈>	**Sc**	**45**		ug/L			489773	517960	2	Standard
|	**Cr**	**52**	**8.543**	ug/L	0.115	1	8505	129008	2	Standard
⌊	**Cr**	**53**	**8.743**	ug/L	0.132	1	60	14233	2	Standard
⌈>	**Ge**	**72**		ug/L			31037	29166	1	KED
|	**Cu**	**63**	**65.938**	ug/L	0.910	1	42	255577	0	KED
|	**Cu**	**65**	**66.039**	ug/L	2.091	3	15	129965	1	KED
|	**Zn**	**66**	**30.904**	ug/L	1.722	5	22	14892	3	KED
|	**Zn**	**67**	**29.801**	ug/L	1.213	4	4	2343	2	KED
⌊	**As**	**75**	**0.908**	ug/L	0.052	5	3	216	3	KED
	Y	**89**		ug/L			38706	155291	2	Standard
	Kr	**83**		ug/L			31	84	7	Standard
⌈>	**In-1**	**115**		ug/L			6431	5942	1	KED
|	**Cd**	**111**	**0.044**	ug/L	0.019	43	3	12	33	KED
⌊	**Cd**	**114**	**0.065**	ug/L	0.016	24	0	35	23	KED
⌈>	**In**	**115**		ug/L			415168	407971	1	Standard
⌊	**Ag**	**107**	**0.050**	ug/L	0.006	11	37	695	10	Standard
⌈>	**Tb**	**159**		ug/L			170846	188018	3	Standard
⌊	**Pb**	**208**	**5.214**	ug/L	0.135	2	364	473576	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0143-DUP2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Friday, May 12, 2023 02:22:46
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28285	32188	4	Standard
⌈>	**Sc**	**45**		ug/L			489773	514224	0	Standard
|	**Cr**	**52**	**8.460**	ug/L	0.137	1	8505	126940	1	Standard
⌊	**Cr**	**53**	**8.562**	ug/L	0.143	1	60	13842	1	Standard
⌈>	**Ge**	**72**		ug/L			31037	28889	0	KED
|	**Cu**	**63**	**67.265**	ug/L	0.792	1	42	258273	0	KED
|	**Cu**	**65**	**68.236**	ug/L	0.153	0	15	133063	0	KED
|	**Zn**	**66**	**31.600**	ug/L	0.647	2	22	15092	1	KED
|	**Zn**	**67**	**30.536**	ug/L	1.112	3	4	2379	3	KED
⌊	**As**	**75**	**1.361**	ug/L	0.052	3	3	319	3	KED
	Y	**89**		ug/L			38706	163418	3	Standard
	Kr	**83**		ug/L			31	85	25	Standard
⌈>	**In-1**	**115**		ug/L			6431	5786	1	KED
|	**Cd**	**111**	**0.070**	ug/L	0.027	38	3	17	33	KED
⌊	**Cd**	**114**	**0.068**	ug/L	0.017	25	0	36	26	KED
⌈>	**In**	**115**		ug/L			415168	413285	2	Standard
⌊	**Ag**	**107**	**0.063**	ug/L	0.006	9	37	889	6	Standard
⌈>	**Tb**	**159**		ug/L			170846	188901	1	Standard
⌊	**Pb**	**208**	**6.697**	ug/L	0.064	0	364	611329	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0143-MS2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Friday, May 12, 2023 02:27:07
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28285	31313	3	Standard
⌈>	**Sc**	**45**		ug/L			489773	510684	2	Standard
|	**Cr**	**52**	**18.655**	ug/L	0.323	1	8505	267255	1	Standard
⌊	**Cr**	**53**	**18.746**	ug/L	0.348	1	60	30022	2	Standard
⌈>	**Ge**	**72**		ug/L			31037	28790	1	KED
|	**Cu**	**63**	**76.495**	ug/L	0.327	0	42	292713	1	KED
|	**Cu**	**65**	**76.368**	ug/L	0.858	1	15	148397	0	KED
|	**Zn**	**66**	**60.624**	ug/L	0.247	0	22	28838	1	KED
|	**Zn**	**67**	**56.389**	ug/L	2.283	4	4	4375	4	KED
⌊	**As**	**75**	**9.360**	ug/L	0.068	0	3	2172	0	KED
	Y	**89**		ug/L			38706	166225	3	Standard
	Kr	**83**		ug/L			31	65	24	Standard
⌈>	**In-1**	**115**		ug/L			6431	5934	1	KED
|	**Cd**	**111**	**10.090**	ug/L	0.243	2	3	2168	2	KED
⌊	**Cd**	**114**	**10.347**	ug/L	0.182	1	0	5666	1	KED
⌈>	**In**	**115**		ug/L			415168	407600	1	Standard
⌊	**Ag**	**107**	**9.938**	ug/L	0.212	2	37	131911	1	Standard
⌈>	**Tb**	**159**		ug/L			170846	186852	1	Standard
⌊	**Pb**	**208**	**13.748**	ug/L	0.170	1	364	1240887	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0143-MSD2
Sample Dil Factor: 50
Comments:
Sample Date/Time: Friday, May 12, 2023 02:31:23
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28285	31044	4	Standard
⌈>	**Sc**	**45**		ug/L			489773	518699	1	Standard
|	**Cr**	**52**	**17.572**	ug/L	0.147	0	8505	256239	1	Standard
⌊	**Cr**	**53**	**17.644**	ug/L	0.164	0	60	28701	1	Standard
⌈>	**Ge**	**72**		ug/L			31037	29185	0	KED
|	**Cu**	**63**	**69.683**	ug/L	0.325	0	42	270307	0	KED
|	**Cu**	**65**	**68.472**	ug/L	1.336	1	15	134892	2	KED
|	**Zn**	**66**	**64.007**	ug/L	1.086	1	22	30862	1	KED
|	**Zn**	**67**	**63.315**	ug/L	1.110	1	4	4978	1	KED
⌊	**As**	**75**	**8.715**	ug/L	0.136	1	3	2050	1	KED
	Y	**89**		ug/L			38706	175850	1	Standard
	Kr	**83**		ug/L			31	71	8	Standard
⌈>	**In-1**	**115**		ug/L			6431	6045	1	KED
|	**Cd**	**111**	**10.400**	ug/L	0.308	2	3	2276	1	KED
⌊	**Cd**	**114**	**10.110**	ug/L	0.094	0	0	5640	2	KED
⌈>	**In**	**115**		ug/L			415168	412014	1	Standard
⌊	**Ag**	**107**	**9.935**	ug/L	0.244	2	37	133316	2	Standard
⌈>	**Tb**	**159**		ug/L			170846	191323	0	Standard
⌊	**Pb**	**208**	**14.236**	ug/L	0.104	0	364	1315763	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLK
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 02:36:09
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28285	30359	5	Standard
⌈>	**Sc**	**45**		ug/L			489773	453998	1	Standard
|	**Cr**	**52**	**0.007**	ug/L	0.007	104	8505	7970	1	Standard
⌊	**Cr**	**53**	**-0.007**	ug/L	0.007	105	60	46	21	Standard
⌈>	**Ge**	**72**		ug/L			31037	28893	1	KED
|	**Cu**	**63**	**0.016**	ug/L	0.002	12	42	100	8	KED
|	**Cu**	**65**	**0.013**	ug/L	0.004	30	15	40	17	KED
|	**Zn**	**66**	**0.014**	ug/L	0.009	66	22	27	14	KED
|	**Zn**	**67**	**0.037**	ug/L	0.077	206	4	6	83	KED
⌊	**As**	**75**	**-0.006**	ug/L	0.006	96	3	1	100	KED
	Y	**89**		ug/L			38706	38306	2	Standard
	Kr	**83**		ug/L			31	40	33	Standard
⌈>	**In-1**	**115**		ug/L			6431	5811	3	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.003	193	3	2	21	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.004	309	0	1	188	KED
⌈>	**In**	**115**		ug/L			415168	413827	1	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.001	151	37	29	43	Standard
⌈>	**Tb**	**159**		ug/L			170846	166016	1	Standard
⌊	**Pb**	**208**	**-0.000**	ug/L	0.000	68	364	330	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0393-02
Sample Dil Factor: 200
Comments:
Sample Date/Time: Friday, May 12, 2023 02:40:32

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28285	45434	2	Standard
⌈>	**Sc**	**45**		ug/L			489773	482968	3	Standard
|	**Cr**	**52**	**2.353**	ug/L	0.019	0	8505	39210	2	Standard
⌊	**Cr**	**53**	**2.336**	ug/L	0.038	1	60	3590	3	Standard
⌈>	**Ge**	**72**		ug/L			31037	29490	1	KED
|	**Cu**	**63**	**7.628**	ug/L	0.205	2	42	29929	1	KED
|	**Cu**	**65**	**7.670**	ug/L	0.201	2	15	15279	2	KED
|	**Zn**	**66**	**15.420**	ug/L	0.323	2	22	7528	0	KED
|	**Zn**	**67**	**15.652**	ug/L	0.735	4	4	1247	5	KED
⌊	**As**	**75**	**2.343**	ug/L	0.048	2	3	559	1	KED
	Y	**89**		ug/L			38706	70245	4	Standard
	Kr	**83**		ug/L			31	35	3	Standard
⌈>	**In-1**	**115**		ug/L			6431	6169	1	KED
|	**Cd**	**111**	**0.026**	ug/L	0.011	43	3	8	26	KED
⌊	**Cd**	**114**	**0.028**	ug/L	0.007	26	0	16	23	KED
⌈>	**In**	**115**		ug/L			415168	420907	1	Standard
⌊	**Ag**	**107**	**0.034**	ug/L	0.002	6	37	505	5	Standard
⌈>	**Tb**	**159**		ug/L			170846	177257	1	Standard
⌊	**Pb**	**208**	**2.067**	ug/L	0.021	0	364	177307	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0393-03
Sample Dil Factor: 200
DEL
Comments:
Sample Date/Time: Friday, May 12, 2023 02:48:17
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28285	33604	1	Standard
⌈>	**Sc**	**45**		ug/L			489773	487278	2	Standard
|	**Cr**	**52**	**2.160**	ug/L	0.027	1	8505	37006	1	Standard
⌊	**Cr**	**53**	**2.152**	ug/L	0.038	1	60	3341	1	Standard
⌈>	**Ge**	**72**		ug/L			31037	30046	1	KED
|	**Cu**	**63**	**8.181**	ug/L	0.073	0	42	32709	1	KED
|	**Cu**	**65**	**8.188**	ug/L	0.175	2	15	16622	3	KED
|	**Zn**	**66**	**14.978**	ug/L	0.559	3	22	7450	2	KED
|	**Zn**	**67**	**15.756**	ug/L	0.427	2	4	1278	2	KED
⌊	**As**	**75**	**1.829**	ug/L	0.095	5	3	445	6	KED
	Y	**89**		ug/L			38706	83285	1	Standard
	Kr	**83**		ug/L			31	36	10	Standard
⌈>	**In-1**	**115**		ug/L			6431	6234	1	KED
|	**Cd**	**111**	**0.016**	ug/L	0.008	48	3	6	24	KED
⌊	**Cd**	**114**	**0.021**	ug/L	0.012	57	0	12	54	KED
⌈>	**In**	**115**		ug/L			415168	418765	2	Standard
⌊	**Ag**	**107**	**0.023**	ug/L	0.001	3	37	356	0	Standard
⌈>	**Tb**	**159**		ug/L			170846	178718	0	Standard
⌊	**Pb**	**208**	**2.555**	ug/L	0.004	0	364	220947	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLL
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 02:56:03
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28285	30836	3	Standard
⌈>	**Sc**	**45**		ug/L			489773	469752	4	Standard
|	**Cr**	**52**	**-0.003**	ug/L	0.010	348	8505	8120	3	Standard
⌊	**Cr**	**53**	**-0.006**	ug/L	0.004	62	60	49	15	Standard
⌈>	**Ge**	**72**		ug/L			31037	29085	0	KED
|	**Cu**	**63**	**0.017**	ug/L	0.003	17	42	104	10	KED
|	**Cu**	**65**	**0.019**	ug/L	0.002	8	15	52	5	KED
|	**Zn**	**66**	**0.014**	ug/L	0.002	14	22	27	3	KED
|	**Zn**	**67**	**-0.021**	ug/L	0.014	68	4	2	43	KED
⌊	**As**	**75**	**-0.007**	ug/L	0.003	42	3	1	57	KED
	Y	**89**		ug/L			38706	40136	2	Standard
	Kr	**83**		ug/L			31	29	24	Standard
⌈>	**In-1**	**115**		ug/L			6431	6211	3	KED
|	**Cd**	**111**	**-0.001**	ug/L	0.012	1346	3	2	88	KED
⌊	**Cd**	**114**	**0.003**	ug/L	0.002	61	0	2	47	KED
⌈>	**In**	**115**		ug/L			415168	424538	4	Standard
⌊	**Ag**	**107**	**-0.002**	ug/L	0.000	9	37	17	11	Standard
⌈>	**Tb**	**159**		ug/L			170846	172024	1	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.000	19	364	267	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVI
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 03:00:49
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28285	27412	4	Standard
⌈>	**Sc**	**45**		ug/L			489773	472142	2	Standard
|	**Cr**	**52**	**48.525**	ug/L	0.359	0	8505	629678	2	Standard
⌊	**Cr**	**53**	**48.055**	ug/L	0.480	0	60	71053	1	Standard
⌈>	**Ge**	**72**		ug/L			31037	29986	0	KED
|	**Cu**	**63**	**49.546**	ug/L	0.423	0	42	197473	0	KED
|	**Cu**	**65**	**49.314**	ug/L	0.707	1	15	99822	1	KED
|	**Zn**	**66**	**49.844**	ug/L	0.989	1	22	24698	1	KED
|	**Zn**	**67**	**50.845**	ug/L	1.890	3	4	4108	3	KED
⌊	**As**	**75**	**49.357**	ug/L	0.317	0	3	11917	0	KED
	Y	**89**		ug/L			38706	40632	1	Standard
	Kr	**83**		ug/L			31	43	11	Standard
⌈>	**In-1**	**115**		ug/L			6431	6181	2	KED
|	**Cd**	**111**	**48.743**	ug/L	1.451	2	3	10895	1	KED
⌊	**Cd**	**114**	**49.281**	ug/L	1.152	2	0	28100	0	KED
⌈>	**In**	**115**		ug/L			415168	420245	0	Standard
⌊	**Ag**	**107**	**48.692**	ug/L	0.848	1	37	666249	1	Standard
⌈>	**Tb**	**159**		ug/L			170846	174791	1	Standard
⌊	**Pb**	**208**	**50.739**	ug/L	1.441	2	364	4282243	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBI
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 03:07:55
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			28285	27232	4	Standard
⌈>	**Sc**	**45**		ug/L			489773	460997	2	Standard
|	**Cr**	**52**	**-0.015**	ug/L	0.013	86	8505	7820	2	Standard
⌊	**Cr**	**53**	**-0.006**	ug/L	0.003	56	60	48	8	Standard
⌈>	**Ge**	**72**		ug/L			31037	28836	1	KED
|	**Cu**	**63**	**0.004**	ug/L	0.005	138	42	53	37	KED
|	**Cu**	**65**	**0.005**	ug/L	0.005	102	15	23	37	KED
|	**Zn**	**66**	**0.056**	ug/L	0.019	33	22	47	17	KED
|	**Zn**	**67**	**0.004**	ug/L	0.015	360	4	4	24	KED
⌊	**As**	**75**	**-0.005**	ug/L	0.004	88	3	1	50	KED
	Y	**89**		ug/L			38706	38610	2	Standard
	Kr	**83**		ug/L			31	39	48	Standard
⌈>	**In-1**	**115**		ug/L			6431	6029	4	KED
|	**Cd**	**111**	**-0.003**	ug/L	0.011	312	3	2	107	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.004	370	0	1	205	KED
⌈>	**In**	**115**		ug/L			415168	414487	1	Standard
⌊	**Ag**	**107**	**0.000**	ug/L	0.000	275	37	38	5	Standard
⌈>	**Tb**	**159**		ug/L			170846	165442	0	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	87	364	398	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 03:12:17
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				26244	0	Standard
⌈>	**Sc**	**45**		ug/L				448237	0	Standard
|	**Cr**	**52**		ug/L				8038	0	Standard
⌊	**Cr**	**53**		ug/L				50	7	Standard
⌈>	**Ge**	**72**		ug/L				28647	1	KED
|	**Cu**	**63**		ug/L				51	22	KED
|	**Cu**	**65**		ug/L				25	22	KED
|	**Zn**	**66**		ug/L				36	18	KED
|	**Zn**	**67**		ug/L				6	15	KED
⌊	**As**	**75**		ug/L				2	21	KED
	Y	**89**		ug/L				38752	1	Standard
	Kr	**83**		ug/L				40	21	Standard
⌈>	**In-1**	**115**		ug/L				6124	1	KED
|	**Cd**	**111**		ug/L				4	48	KED
⌊	**Cd**	**114**		ug/L				3	51	KED
⌈>	**In**	**115**		ug/L				412702	0	Standard
⌊	**Ag**	**107**		ug/L				17	19	Standard
⌈>	**Tb**	**159**		ug/L				165777	0	Standard
⌊	**Pb**	**208**		ug/L				350	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVJ
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 03:16:39
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26244	27528	3	Standard
⌈>	**Sc**	**45**		ug/L			448237	465302	1	Standard
|	**Cr**	**52**	**48.195**	ug/L	1.071	2	8038	616725	3	Standard
⌊	**Cr**	**53**	**48.451**	ug/L	1.053	2	50	70619	3	Standard
⌈>	**Ge**	**72**		ug/L			28647	29088	1	KED
|	**Cu**	**63**	**49.523**	ug/L	0.747	1	51	191468	0	KED
|	**Cu**	**65**	**49.587**	ug/L	0.811	1	25	97364	0	KED
|	**Zn**	**66**	**50.764**	ug/L	1.787	3	36	24410	2	KED
|	**Zn**	**67**	**51.486**	ug/L	0.785	1	6	4038	0	KED
⌊	**As**	**75**	**49.815**	ug/L	0.738	1	2	11666	0	KED
	Y	**89**		ug/L			38752	39682	1	Standard
	Kr	**83**		ug/L			40	38	10	Standard
⌈>	**In-1**	**115**		ug/L			6124	5986	1	KED
|	**Cd**	**111**	**50.165**	ug/L	0.768	1	4	10864	0	KED
⌊	**Cd**	**114**	**50.376**	ug/L	0.553	1	3	27830	1	KED
⌈>	**In**	**115**		ug/L			412702	414779	3	Standard
⌊	**Ag**	**107**	**48.657**	ug/L	0.166	0	17	657183	3	Standard
⌈>	**Tb**	**159**		ug/L			165777	173047	1	Standard
⌊	**Pb**	**208**	**51.251**	ug/L	0.610	1	350	4282878	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBJ
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 03:23:45
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26244	27346	3	Standard
⌈>	**Sc**	**45**		ug/L			448237	461077	0	Standard
|	**Cr**	**52**	**-0.024**	ug/L	0.006	22	8038	7967	1	Standard
⌊	**Cr**	**53**	**-0.003**	ug/L	0.003	107	50	47	11	Standard
⌈>	**Ge**	**72**		ug/L			28647	29348	3	KED
|	**Cu**	**63**	**-0.002**	ug/L	0.002	94	51	45	18	KED
|	**Cu**	**65**	**0.004**	ug/L	0.005	131	25	33	27	KED
|	**Zn**	**66**	**-0.007**	ug/L	0.009	130	36	34	9	KED
|	**Zn**	**67**	**-0.010**	ug/L	0.016	161	6	6	17	KED
⌊	**As**	**75**	**0.000**	ug/L	0.005	1211	2	2	44	KED
	Y	**89**		ug/L			38752	38899	0	Standard
	Kr	**83**		ug/L			40	36	32	Standard
⌈>	**In-1**	**115**		ug/L			6124	6057	3	KED
|	**Cd**	**111**	**-0.003**	ug/L	0.007	242	4	3	41	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.003	104	3	1	101	KED
⌈>	**In**	**115**		ug/L			412702	421771	1	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.001	50	17	44	31	Standard
⌈>	**Tb**	**159**		ug/L			165777	166182	0	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.001	74	350	409	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0393-05
Sample Dil Factor: 200
Comments:
Sample Date/Time: Friday, May 12, 2023 03:28:07
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26244	28967	3	Standard
⌈>	**Sc**	**45**		ug/L			448237	473662	1	Standard
|	**Cr**	**52**	**6.951**	ug/L	0.009	0	8038	97812	1	Standard
⌊	**Cr**	**53**	**7.122**	ug/L	0.149	2	50	10613	3	Standard
⌈>	**Ge**	**72**		ug/L			28647	29878	1	KED
|	**Cu**	**63**	**140.074**	ug/L	4.444	3	51	556090	2	KED
|	**Cu**	**65**	**137.686**	ug/L	3.184	2	25	277626	1	KED
|	**Zn**	**66**	**432.085**	ug/L	1.353	0	36	213184	1	KED
|	**Zn**	**67**	**396.702**	ug/L	8.330	2	6	31911	1	KED
⌊	**As**	**75**	**58.904**	ug/L	1.212	2	2	14168	1	KED
	Y	**89**		ug/L			38752	55902	2	Standard
	Kr	**83**		ug/L			40	50	26	Standard
⌈>	**In-1**	**115**		ug/L			6124	6550	1	KED
|	**Cd**	**111**	**0.239**	ug/L	0.038	15	4	60	13	KED
⌊	**Cd**	**114**	**0.272**	ug/L	0.015	5	3	168	6	KED
⌈>	**In**	**115**		ug/L			412702	459125	2	Standard
⌊	**Ag**	**107**	**0.090**	ug/L	0.003	3	17	1366	3	Standard
⌈>	**Tb**	**159**		ug/L			165777	177424	1	Standard
⌊	**Pb**	**208**	**56.336**	ug/L	1.570	2	350	4826184	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0393-06
Sample Dil Factor: 200
Comments:
Sample Date/Time: Friday, May 12, 2023 03:32:53
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			26244	30367	2	Standard
⌈>	Sc	45		ug/L			448237	479266	1	Standard
|	Cr	52	3.211	ug/L	0.045	1	8038	50334	0	Standard
⌊	Cr	53	3.248	ug/L	0.092	2	50	4923	1	Standard
⌈>	Ge	72		ug/L			28647	30135	1	KED
|	~~Cu~~	~~63~~	50.976	ug/L	0.858	1	51	204186	1	KED
|	Cu	65	49.940	ug/L	0.275	0	25	101598	1	KED
|	Zn	66	188.164	ug/L	2.067	1	36	93651	0	KED
|	Zn	67	176.994	ug/L	2.872	1	6	14365	1	KED
⌊	As	75	26.612	ug/L	0.314	1	2	6457	0	KED
	Y	89		ug/L			38752	53142	2	Standard
	Kr	83		ug/L			40	43	19	Standard
⌈>	In-1	115		ug/L			6124	6312	2	KED
|	Cd	111	0.085	ug/L	0.040	46	4	23	38	KED
⌊	Cd	114	0.093	ug/L	0.015	16	3	58	17	KED
⌈>	In	115		ug/L			412702	435687	2	Standard
⌊	Ag	107	0.036	ug/L	0.001	3	17	523	2	Standard
⌈>	Tb	159		ug/L			165777	175550	0	Standard
⌊	Pb	208	25.843	ug/L	0.460	1	350	2191176	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0393-08
Sample Dil Factor: 200
DEL
Comments:
Sample Date/Time: Friday, May 12, 2023 03:40:38
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26244	31181	3	Standard
⌈>	**Sc**	**45**		ug/L			448237	478509	1	Standard
|	**Cr**	**52**	**1.220**	ug/L	0.043	3	8038	24407	0	Standard
⌊	**Cr**	**53**	**1.282**	ug/L	0.063	4	50	1973	3	Standard
⌈>	**Ge**	**72**		ug/L			28647	30151	1	KED
|	**Cu**	**63**	**6.754**	ug/L	0.133	1	51	27113	1	KED
|	**Cu**	**65**	**6.604**	ug/L	0.067	1	25	13465	0	KED
|	**Zn**	**66**	**6.390**	ug/L	0.314	4	36	3218	3	KED
|	**Zn**	**67**	**6.099**	ug/L	0.366	5	6	502	5	KED
⌊	**As**	**75**	**0.351**	ug/L	0.020	5	2	87	6	KED
	Y	**89**		ug/L			38752	50471	3	Standard
	Kr	**83**		ug/L			40	45	8	Standard
⌈>	**In-1**	**115**		ug/L			6124	6249	2	KED
|	**Cd**	**111**	**0.001**	ug/L	0.007	618	4	4	32	KED
⌊	**Cd**	**114**	**0.004**	ug/L	0.004	79	3	6	34	KED
⌈>	**In**	**115**		ug/L			412702	436235	1	Standard
⌊	**Ag**	**107**	**0.007**	ug/L	0.001	18	17	115	17	Standard
⌈>	**Tb**	**159**		ug/L			165777	178703	0	Standard
⌊	**Pb**	**208**	**2.526**	ug/L	0.011	0	350	218384	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLM
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 03:46:25
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26244	30527	5	Standard
⌈>	**Sc**	**45**		ug/L			448237	458442	0	Standard
|	**Cr**	**52**	**-0.015**	ug/L	0.025	167	8038	8039	3	Standard
⌊	**Cr**	**53**	**-0.006**	ug/L	0.005	93	50	43	18	Standard
⌈>	**Ge**	**72**		ug/L			28647	29142	1	KED
|	**Cu**	**63**	**-0.001**	ug/L	0.001	98	51	48	8	KED
|	**Cu**	**65**	**-0.002**	ug/L	0.002	84	25	22	13	KED
|	**Zn**	**66**	**-0.020**	ug/L	0.026	134	36	27	43	KED
|	**Zn**	**67**	**-0.058**	ug/L	0.037	63	6	2	114	KED
⌊	**As**	**75**	**0.000**	ug/L	0.004	856	2	2	36	KED
	Y	**89**		ug/L			38752	38600	1	Standard
	Kr	**83**		ug/L			40	36	5	Standard
⌈>	**In-1**	**115**		ug/L			6124	6084	3	KED
|	**Cd**	**111**	**-0.001**	ug/L	0.005	392	4	3	25	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.010	432	3	4	111	KED
⌈>	**In**	**115**		ug/L			412702	419892	1	Standard
⌊	**Ag**	**107**	**-0.000**	ug/L	0.000	154	17	13	49	Standard
⌈>	**Tb**	**159**		ug/L			165777	169399	0	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.001	83	350	293	18	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0412-02
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 03:50:41
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26244	42650	4	Standard
⌈>	**Sc**	**45**		ug/L			448237	530401	2	Standard
|	**Cr**	**52**	**0.120**	ug/L	0.007	5	8038	11239	1	Standard
⌊	**Cr**	**53**	**0.474**	ug/L	0.007	1	50	846	3	Standard
⌈>	**Ge**	**72**		ug/L			28647	28591	0	KED
|	**Cu**	**63**	**1.290**	ug/L	0.027	2	51	4951	1	KED
|	**Cu**	**65**	**1.301**	ug/L	0.021	1	25	2536	0	KED
|	**Zn**	**66**	**1.290**	ug/L	0.052	4	36	645	4	KED
|	**Zn**	**67**	**1.518**	ug/L	0.137	9	6	123	8	KED
⌊	**As**	**75**	**0.485**	ug/L	0.024	5	2	114	4	KED
	Y	**89**		ug/L			38752	47886	3	Standard
	Kr	**83**		ug/L			40	40	23	Standard
⌈>	**In-1**	**115**		ug/L			6124	5788	1	KED
|	**Cd**	**111**	**0.012**	ug/L	0.007	62	4	6	22	KED
⌊	**Cd**	**114**	**0.017**	ug/L	0.004	20	3	12	17	KED
⌈>	**In**	**115**		ug/L			412702	424716	1	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.001	132	17	27	48	Standard
⌈>	**Tb**	**159**		ug/L			165777	173082	0	Standard
⌊	**Pb**	**208**	**0.007**	ug/L	0.000	7	350	953	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0412-03
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 03:55:02
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26244	36089	1	Standard
⌈>	**Sc**	**45**		ug/L			448237	508981	1	Standard
|	**Cr**	**52**	**0.007**	ug/L	0.014	208	8038	9222	2	Standard
⌊	**Cr**	**53**	**0.471**	ug/L	0.036	7	50	807	7	Standard
⌈>	**Ge**	**72**		ug/L			28647	27519	2	KED
|	**Cu**	**63**	**0.413**	ug/L	0.017	4	51	1558	1	KED
|	**Cu**	**65**	**0.399**	ug/L	0.054	13	25	765	12	KED
|	**Zn**	**66**	**1.670**	ug/L	0.134	8	36	793	6	KED
|	**Zn**	**67**	**1.816**	ug/L	0.419	23	6	140	20	KED
⌊	**As**	**75**	**0.386**	ug/L	0.025	6	2	87	3	KED
	Y	**89**		ug/L			38752	41667	3	Standard
	Kr	**83**		ug/L			40	36	7	Standard
⌈>	**In-1**	**115**		ug/L			6124	5550	0	KED
|	**Cd**	**111**	**-0.004**	ug/L	0.010	220	4	2	66	KED
⌊	**Cd**	**114**	**0.006**	ug/L	0.002	38	3	6	17	KED
⌈>	**In**	**115**		ug/L			412702	419007	2	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.000	74	17	25	24	Standard
⌈>	**Tb**	**159**		ug/L			165777	168327	2	Standard
⌊	**Pb**	**208**	**0.011**	ug/L	0.000	2	350	1228	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0412-04
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 03:59:23
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26244	36160	3	Standard
⌈>	**Sc**	**45**		ug/L			448237	501329	0	Standard
|	**Cr**	**52**	**0.098**	ug/L	0.027	27	8038	10320	3	Standard
⌊	**Cr**	**53**	**0.469**	ug/L	0.026	5	50	792	5	Standard
⌈>	**Ge**	**72**		ug/L			28647	26746	0	KED
|	**Cu**	**63**	**0.693**	ug/L	0.024	3	51	2510	3	KED
|	**Cu**	**65**	**0.676**	ug/L	0.022	3	25	1245	3	KED
|	**Zn**	**66**	**1.511**	ug/L	0.056	3	36	701	2	KED
|	**Zn**	**67**	**1.478**	ug/L	0.150	10	6	113	10	KED
⌊	**As**	**75**	**0.114**	ug/L	0.017	14	2	26	14	KED
	Y	**89**		ug/L			38752	40879	1	Standard
	Kr	**83**		ug/L			40	35	26	Standard
⌈>	**In-1**	**115**		ug/L			6124	5352	2	KED
|	**Cd**	**111**	**0.006**	ug/L	0.010	170	4	4	40	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.004	126	3	1	112	KED
⌈>	**In**	**115**		ug/L			412702	403498	1	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.001	116	17	24	35	Standard
⌈>	**Tb**	**159**		ug/L			165777	165184	1	Standard
⌊	**Pb**	**208**	**0.005**	ug/L	0.001	11	350	784	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0412-05
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 04:03:39
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26244	42590	6	Standard
⌈>	**Sc**	**45**		ug/L			448237	522766	2	Standard
|	**Cr**	**52**	**0.344**	ug/L	0.007	1	8038	14260	2	Standard
⌊	**Cr**	**53**	**0.595**	ug/L	0.019	3	50	1031	1	Standard
⌈>	**Ge**	**72**		ug/L			28647	26398	0	KED
|	**Cu**	**63**	**0.272**	ug/L	0.019	6	51	1002	6	KED
|	**Cu**	**65**	**0.264**	ug/L	0.020	7	25	493	6	KED
|	**Zn**	**66**	**1.455**	ug/L	0.138	9	36	667	8	KED
|	**Zn**	**67**	**1.581**	ug/L	0.242	15	6	118	14	KED
⌊	**As**	**75**	**1.568**	ug/L	0.081	5	2	335	4	KED
	Y	**89**		ug/L			38752	48893	0	Standard
	Kr	**83**		ug/L			40	33	31	Standard
⌈>	**In-1**	**115**		ug/L			6124	5519	2	KED
|	**Cd**	**111**	**-0.006**	ug/L	0.007	120	4	2	57	KED
⌊	**Cd**	**114**	**0.007**	ug/L	0.006	83	3	6	41	KED
⌈>	**In**	**115**		ug/L			412702	410491	1	Standard
⌊	**Ag**	**107**	**0.000**	ug/L	0.001	299	17	20	48	Standard
⌈>	**Tb**	**159**		ug/L			165777	168884	2	Standard
⌊	**Pb**	**208**	**0.014**	ug/L	0.001	3	350	1517	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0412-06
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 04:08:24
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26244	37374	6	Standard
⌈>	**Sc**	**45**		ug/L			448237	543142	1	Standard
|	**Cr**	**52**	**0.110**	ug/L	0.011	10	8038	11359	1	Standard
⌊	**Cr**	**53**	**0.280**	ug/L	0.014	5	50	536	4	Standard
⌈>	**Ge**	**72**		ug/L			28647	26365	1	KED
|	**Cu**	**63**	**0.140**	ug/L	0.007	5	51	536	4	KED
|	**Cu**	**65**	**0.131**	ug/L	0.015	11	25	256	9	KED
|	**Zn**	**66**	**2.253**	ug/L	0.100	4	36	1014	2	KED
|	**Zn**	**67**	**2.603**	ug/L	0.114	4	6	191	3	KED
⌊	**As**	**75**	**1.190**	ug/L	0.034	2	2	255	4	KED
	Y	**89**		ug/L			38752	41959	1	Standard
	Kr	**83**		ug/L			40	33	26	Standard
⌈>	**In-1**	**115**		ug/L			6124	5401	2	KED
|	**Cd**	**111**	**-0.004**	ug/L	0.005	117	4	2	33	KED
⌊	**Cd**	**114**	**0.003**	ug/L	0.006	180	3	4	57	KED
⌈>	**In**	**115**		ug/L			412702	406534	2	Standard
⌊	**Ag**	**107**	**0.000**	ug/L	0.000	39	17	22	8	Standard
⌈>	**Tb**	**159**		ug/L			165777	172296	2	Standard
⌊	**Pb**	**208**	**0.006**	ug/L	0.001	14	350	834	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLN
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 04:12:47
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26244	27561	3	Standard
⌈>	**Sc**	**45**		ug/L			448237	445679	2	Standard
|	**Cr**	**52**	**0.037**	ug/L	0.012	31	8038	8433	2	Standard
⌊	**Cr**	**53**	**0.005**	ug/L	0.007	155	50	56	17	Standard
⌈>	**Ge**	**72**		ug/L			28647	28593	1	KED
|	**Cu**	**63**	**-0.004**	ug/L	0.002	44	51	36	18	KED
|	**Cu**	**65**	**-0.007**	ug/L	0.003	53	25	12	52	KED
|	**Zn**	**66**	**-0.023**	ug/L	0.019	82	36	26	32	KED
|	**Zn**	**67**	**-0.033**	ug/L	0.028	86	6	4	49	KED
⌊	**As**	**75**	**-0.001**	ug/L	0.009	1538	2	2	87	KED
	Y	**89**		ug/L			38752	38260	2	Standard
	Kr	**83**		ug/L			40	36	13	Standard
⌈>	**In-1**	**115**		ug/L			6124	5663	2	KED
|	**Cd**	**111**	**-0.009**	ug/L	0.005	50	4	1	50	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.004	117	3	1	104	KED
⌈>	**In**	**115**		ug/L			412702	414879	1	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.000	41	17	10	28	Standard
⌈>	**Tb**	**159**		ug/L			165777	167727	0	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.000	30	350	254	11	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVK
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 04:17:08
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26244	25817	5	Standard
⌈>	**Sc**	**45**		ug/L			448237	458964	2	Standard
|	**Cr**	**52**	**47.339**	ug/L	0.616	1	8038	597481	1	Standard
⌊	**Cr**	**53**	**47.127**	ug/L	1.094	2	50	67723	2	Standard
⌈>	**Ge**	**72**		ug/L			28647	28285	1	KED
|	**Cu**	**63**	**49.769**	ug/L	1.510	3	51	187053	1	KED
|	**Cu**	**65**	**49.726**	ug/L	1.311	2	25	94927	1	KED
|	**Zn**	**66**	**50.171**	ug/L	1.805	3	36	23455	1	KED
|	**Zn**	**67**	**50.152**	ug/L	1.339	2	6	3824	1	KED
⌊	**As**	**75**	**49.459**	ug/L	1.582	3	2	11259	1	KED
	Y	**89**		ug/L			38752	39627	0	Standard
	Kr	**83**		ug/L			40	34	16	Standard
⌈>	**In-1**	**115**		ug/L			6124	5651	4	KED
|	**Cd**	**111**	**51.104**	ug/L	1.817	3	4	10440	2	KED
⌊	**Cd**	**114**	**51.219**	ug/L	2.169	4	3	26683	1	KED
⌈>	**In**	**115**		ug/L			412702	416361	1	Standard
⌊	**Ag**	**107**	**47.224**	ug/L	1.028	2	17	640079	0	Standard
⌈>	**Tb**	**159**		ug/L			165777	173175	2	Standard
⌊	**Pb**	**208**	**52.054**	ug/L	1.042	2	350	4352693	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBK
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 04:24:14
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26244	25999	3	Standard
⌈>	**Sc**	**45**		ug/L			448237	447350	1	Standard
|	**Cr**	**52**	**-0.006**	ug/L	0.013	225	8038	7953	3	Standard
⌊	**Cr**	**53**	**0.002**	ug/L	0.004	191	50	53	11	Standard
⌈>	**Ge**	**72**		ug/L			28647	28109	1	KED
|	**Cu**	**63**	**-0.005**	ug/L	0.001	14	51	31	9	KED
|	**Cu**	**65**	**-0.003**	ug/L	0.002	88	25	19	22	KED
|	**Zn**	**66**	**-0.022**	ug/L	0.005	22	36	26	8	KED
|	**Zn**	**67**	**0.010**	ug/L	0.090	914	6	7	90	KED
⌊	**As**	**75**	**0.000**	ug/L	0.004	1855	2	2	39	KED
	Y	**89**		ug/L			38752	38816	1	Standard
	Kr	**83**		ug/L			40	33	28	Standard
⌈>	**In-1**	**115**		ug/L			6124	5534	2	KED
|	**Cd**	**111**	**-0.012**	ug/L	0.007	57	4	1	114	KED
⌊	**Cd**	**114**	**0.006**	ug/L	0.002	36	3	6	17	KED
⌈>	**In**	**115**		ug/L			412702	422383	1	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.001	36	17	43	21	Standard
⌈>	**Tb**	**159**		ug/L			165777	167282	0	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	62	350	417	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0412-07
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 04:28:37
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26244	34980	4	Standard
⌈>	**Sc**	**45**		ug/L			448237	507391	2	Standard
|	**Cr**	**52**	**-0.000**	ug/L	0.011	2810	8038	9093	2	Standard
⌊	**Cr**	**53**	**0.283**	ug/L	0.019	6	50	507	7	Standard
⌈>	**Ge**	**72**		ug/L			28647	26697	1	KED
|	**Cu**	**63**	**0.111**	ug/L	0.003	3	51	440	2	KED
|	**Cu**	**65**	**0.116**	ug/L	0.014	11	25	232	10	KED
|	**Zn**	**66**	**1.554**	ug/L	0.157	10	36	718	8	KED
|	**Zn**	**67**	**2.143**	ug/L	0.179	8	6	160	8	KED
⌊	**As**	**75**	**0.679**	ug/L	0.053	7	2	148	7	KED
	Y	**89**		ug/L			38752	40544	3	Standard
	Kr	**83**		ug/L			40	34	14	Standard
⌈>	**In-1**	**115**		ug/L			6124	5355	3	KED
|	**Cd**	**111**	**-0.009**	ug/L	0.000	3	4	1		KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.010	458	3	4	111	KED
⌈>	**In**	**115**		ug/L			412702	406592	2	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.001	121	17	26	42	Standard
⌈>	**Tb**	**159**		ug/L			165777	167561	1	Standard
⌊	**Pb**	**208**	**0.011**	ug/L	0.001	4	350	1221	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0412-08
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 04:32:58
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26244	34708	3	Standard
⌈>	**Sc**	**45**		ug/L			448237	521894	3	Standard
|	**Cr**	**52**	**0.034**	ug/L	0.013	37	8038	9842	3	Standard
⌊	**Cr**	**53**	**0.532**	ug/L	0.008	1	50	927	4	Standard
⌈>	**Ge**	**72**		ug/L			28647	25650	1	KED
|	**Cu**	**63**	**0.549**	ug/L	0.013	2	51	1918	2	KED
|	**Cu**	**65**	**0.549**	ug/L	0.010	1	25	972	1	KED
|	**Zn**	**66**	**2.235**	ug/L	0.080	3	36	979	4	KED
|	**Zn**	**67**	**2.713**	ug/L	0.101	3	6	193	4	KED
⌊	**As**	**75**	**0.376**	ug/L	0.019	4	2	80	4	KED
	Y	**89**		ug/L			38752	42727	2	Standard
	Kr	**83**		ug/L			40	34	20	Standard
⌈>	**In-1**	**115**		ug/L			6124	5228	2	KED
|	**Cd**	**111**	**0.018**	ug/L	0.002	12	4	6	7	KED
⌊	**Cd**	**114**	**0.023**	ug/L	0.005	23	3	14	20	KED
⌈>	**In**	**115**		ug/L			412702	418045	2	Standard
⌊	**Ag**	**107**	**-0.000**	ug/L	0.001	3271	17	17	50	Standard
⌈>	**Tb**	**159**		ug/L			165777	167064	0	Standard
⌊	**Pb**	**208**	**0.012**	ug/L	0.001	5	350	1348	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0412-09
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 04:37:19
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26244	39008	4	Standard
⌈>	**Sc**	**45**		ug/L			448237	523709	2	Standard
|	**Cr**	**52**	**-0.003**	ug/L	0.009	298	8038	9348	1	Standard
⌊	**Cr**	**53**	**0.423**	ug/L	0.025	5	50	751	3	Standard
⌈>	**Ge**	**72**		ug/L			28647	25094	2	KED
|	**Cu**	**63**	**1.206**	ug/L	0.033	2	51	4065	1	KED
|	**Cu**	**65**	**1.210**	ug/L	0.034	2	25	2071	0	KED
|	**Zn**	**66**	**2.156**	ug/L	0.124	5	36	925	5	KED
|	**Zn**	**67**	**2.797**	ug/L	0.633	22	6	194	19	KED
⌊	**As**	**75**	**0.379**	ug/L	0.019	5	2	78	4	KED
	Y	**89**		ug/L			38752	56516	3	Standard
	Kr	**83**		ug/L			40	35	24	Standard
⌈>	**In-1**	**115**		ug/L			6124	5268	2	KED
|	**Cd**	**111**	**0.056**	ug/L	0.012	21	4	14	17	KED
⌊	**Cd**	**114**	**0.050**	ug/L	0.008	16	3	27	16	KED
⌈>	**In**	**115**		ug/L			412702	413918	1	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.000	24	17	24	7	Standard
⌈>	**Tb**	**159**		ug/L			165777	165395	1	Standard
⌊	**Pb**	**208**	**0.009**	ug/L	0.001	10	350	1075	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0412-10
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 04:41:41
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26244	37328	5	Standard
⌈>	**Sc**	**45**		ug/L			448237	514346	2	Standard
|	**Cr**	**52**	**0.138**	ug/L	0.014	10	8038	11152	3	Standard
⌊	**Cr**	**53**	**1.128**	ug/L	0.011	1	50	1873	1	Standard
⌈>	**Ge**	**72**		ug/L			28647	25872	0	KED
|	**Cu**	**63**	**0.438**	ug/L	0.009	1	51	1551	1	KED
|	**Cu**	**65**	**0.422**	ug/L	0.030	7	25	759	7	KED
|	**Zn**	**66**	**3.277**	ug/L	0.134	4	36	1433	3	KED
|	**Zn**	**67**	**3.610**	ug/L	0.275	7	6	257	7	KED
⌊	**As**	**75**	**0.154**	ug/L	0.008	5	2	34	4	KED
	Y	**89**		ug/L			38752	45722	0	Standard
	Kr	**83**		ug/L			40	34	14	Standard
⌈>	**In-1**	**115**		ug/L			6124	5294	3	KED
|	**Cd**	**111**	**0.013**	ug/L	0.010	77	4	6	32	KED
⌊	**Cd**	**114**	**0.008**	ug/L	0.007	88	3	7	52	KED
⌈>	**In**	**115**		ug/L			412702	418437	1	Standard
⌊	**Ag**	**107**	**-0.000**	ug/L	0.000	74	17	13	24	Standard
⌈>	**Tb**	**159**		ug/L			165777	172510	1	Standard
⌊	**Pb**	**208**	**0.005**	ug/L	0.000	6	350	793	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0412-11
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 04:46:02
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26244	36551	3	Standard
⌈>	**Sc**	**45**		ug/L			448237	478649	2	Standard
|	**Cr**	**52**	**0.539**	ug/L	0.040	7	8038	15579	1	Standard
⌊	**Cr**	**53**	**0.643**	ug/L	0.009	1	50	1016	1	Standard
⌈>	**Ge**	**72**		ug/L			28647	27659	0	KED
|	**Cu**	**63**	**0.716**	ug/L	0.012	1	51	2680	1	KED
|	**Cu**	**65**	**0.697**	ug/L	0.024	3	25	1325	3	KED
|	**Zn**	**66**	**1.435**	ug/L	0.052	3	36	690	3	KED
|	**Zn**	**67**	**1.726**	ug/L	0.266	15	6	135	14	KED
⌊	**As**	**75**	**0.107**	ug/L	0.004	3	2	26	3	KED
	Y	**89**		ug/L			38752	44581	2	Standard
	Kr	**83**		ug/L			40	34	14	Standard
⌈>	**In-1**	**115**		ug/L			6124	5619	1	KED
|	**Cd**	**111**	**-0.006**	ug/L	0.006	90	4	2	43	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.004	104	3	1	115	KED
⌈>	**In**	**115**		ug/L			412702	423122	1	Standard
⌊	**Ag**	**107**	**-0.000**	ug/L	0.000	42	17	12	18	Standard
⌈>	**Tb**	**159**		ug/L			165777	172262	1	Standard
⌊	**Pb**	**208**	**0.007**	ug/L	0.001	17	350	942	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0412-12
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 04:50:23
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26244	37463	6	Standard
⌈>	**Sc**	**45**		ug/L			448237	481580	2	Standard
|	**Cr**	**52**	**0.475**	ug/L	0.016	3	8038	14843	2	Standard
⌊	**Cr**	**53**	**0.571**	ug/L	0.031	5	50	914	3	Standard
⌈>	**Ge**	**72**		ug/L			28647	27543	0	KED
|	**Cu**	**63**	**0.659**	ug/L	0.006	0	51	2462	1	KED
|	**Cu**	**65**	**0.637**	ug/L	0.030	4	25	1208	3	KED
|	**Zn**	**66**	**1.718**	ug/L	0.054	3	36	816	3	KED
|	**Zn**	**67**	**1.809**	ug/L	0.237	13	6	140	13	KED
⌊	**As**	**75**	**0.103**	ug/L	0.014	13	2	25	11	KED
	Y	**89**		ug/L			38752	44952	0	Standard
	Kr	**83**		ug/L			40	34	14	Standard
⌈>	**In-1**	**115**		ug/L			6124	5573	3	KED
|	**Cd**	**111**	**-0.014**	ug/L	0.005	35	4	0	100	KED
⌊	**Cd**	**114**	**0.004**	ug/L	0.010	228	3	5	91	KED
⌈>	**In**	**115**		ug/L			412702	425006	2	Standard
⌊	**Ag**	**107**	**-0.000**	ug/L	0.001	511	17	15	54	Standard
⌈>	**Tb**	**159**		ug/L			165777	174747	2	Standard
⌊	**Pb**	**208**	**0.006**	ug/L	0.001	11	350	860	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0412-13
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 04:54:45
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26244	50151	4	Standard
⌈>	**Sc**	**45**		ug/L			448237	515471	4	Standard
|	**Cr**	**52**	**1.036**	ug/L	0.051	4	8038	23717	2	Standard
⌊	**Cr**	**53**	**1.163**	ug/L	0.031	2	50	1932	2	Standard
⌈>	**Ge**	**72**		ug/L			28647	26794	2	KED
|	**Cu**	**63**	**4.548**	ug/L	0.126	2	51	16238	1	KED
|	**Cu**	**65**	**4.399**	ug/L	0.140	3	25	7976	1	KED
|	**Zn**	**66**	**1.833**	ug/L	0.087	4	36	845	3	KED
|	**Zn**	**67**	**2.737**	ug/L	0.334	12	6	203	10	KED
⌊	**As**	**75**	**0.367**	ug/L	0.023	6	2	81	4	KED
	Y	**89**		ug/L			38752	55318	0	Standard
	Kr	**83**		ug/L			40	29	7	Standard
⌈>	**In-1**	**115**		ug/L			6124	5465	4	KED
|	**Cd**	**111**	**0.011**	ug/L	0.014	128	4	5	44	KED
⌊	**Cd**	**114**	**0.012**	ug/L	0.015	119	3	9	74	KED
⌈>	**In**	**115**		ug/L			412702	417323	2	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.000	11	17	34	3	Standard
⌈>	**Tb**	**159**		ug/L			165777	171029	1	Standard
⌊	**Pb**	**208**	**0.011**	ug/L	0.000	4	350	1292	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0412-14
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 04:59:00
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26244	60913	5	Standard
⌈>	**Sc**	**45**		ug/L			448237	519319	2	Standard
|	**Cr**	**52**	**0.917**	ug/L	0.019	2	8038	22240	3	Standard
⌊	**Cr**	**53**	**1.086**	ug/L	0.010	0	50	1823	2	Standard
⌈>	**Ge**	**72**		ug/L			28647	26673	0	KED
|	**Cu**	**63**	**12.597**	ug/L	0.095	0	51	44697	0	KED
|	**Cu**	**65**	**12.583**	ug/L	0.156	1	25	22674	0	KED
|	**Zn**	**66**	**1.341**	ug/L	0.039	2	36	624	3	KED
|	**Zn**	**67**	**1.414**	ug/L	0.270	19	6	107	17	KED
⌊	**As**	**75**	**54.959**	ug/L	0.366	0	2	11803	1	KED
	Y	**89**		ug/L			38752	51441	2	Standard
	Kr	**83**		ug/L			40	36	7	Standard
⌈>	**In-1**	**115**		ug/L			6124	5208	1	KED
|	**Cd**	**111**	**0.064**	ug/L	0.017	26	4	15	19	KED
⌊	**Cd**	**114**	**0.052**	ug/L	0.025	47	3	28	41	KED
⌈>	**In**	**115**		ug/L			412702	399894	2	Standard
⌊	**Ag**	**107**	**0.021**	ug/L	0.001	6	17	295	7	Standard
⌈>	**Tb**	**159**		ug/L			165777	171823	1	Standard
⌊	**Pb**	**208**	**3.243**	ug/L	0.018	0	350	269471	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0412-15
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 05:03:46
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26244	35421	4	Standard
⌈>	**Sc**	**45**		ug/L			448237	497187	2	Standard
|	**Cr**	**52**	**1.002**	ug/L	0.021	2	8038	22430	1	Standard
⌊	**Cr**	**53**	**1.130**	ug/L	0.046	4	50	1815	5	Standard
⌈>	**Ge**	**72**		ug/L			28647	27665	0	KED
|	**Cu**	**63**	**0.293**	ug/L	0.005	1	51	1126	2	KED
|	**Cu**	**65**	**0.310**	ug/L	0.011	3	25	603	2	KED
|	**Zn**	**66**	**1.461**	ug/L	0.088	6	36	702	5	KED
|	**Zn**	**67**	**1.589**	ug/L	0.353	22	6	125	20	KED
⌊	**As**	**75**	**0.176**	ug/L	0.005	2	2	41	2	KED
	Y	**89**		ug/L			38752	41465	0	Standard
	Kr	**83**		ug/L			40	33	34	Standard
⌈>	**In-1**	**115**		ug/L			6124	5424	0	KED
|	**Cd**	**111**	**-0.014**	ug/L	0.008	61	4	0	173	KED
⌊	**Cd**	**114**	**0.006**	ug/L	0.006	102	3	6	47	KED
⌈>	**In**	**115**		ug/L			412702	422790	3	Standard
⌊	**Ag**	**107**	**-0.000**	ug/L	0.000	186	17	14	41	Standard
⌈>	**Tb**	**159**		ug/L			165777	173661	1	Standard
⌊	**Pb**	**208**	**0.005**	ug/L	0.000	8	350	790	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLO
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 05:08:08
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26244	26979	3	Standard
⌈>	**Sc**	**45**		ug/L			448237	446006	2	Standard
|	**Cr**	**52**	**0.014**	ug/L	0.020	146	8038	8160	1	Standard
⌊	**Cr**	**53**	**0.005**	ug/L	0.008	143	50	57	16	Standard
⌈>	**Ge**	**72**		ug/L			28647	27330	2	KED
|	**Cu**	**63**	**-0.008**	ug/L	0.001	10	51	19	14	KED
|	**Cu**	**65**	**-0.008**	ug/L	0.002	27	25	8	44	KED
|	**Zn**	**66**	**-0.033**	ug/L	0.006	18	36	20	14	KED
|	**Zn**	**67**	**-0.004**	ug/L	0.041	1039	6	6	45	KED
⌊	**As**	**75**	**-0.003**	ug/L	0.005	169	2	1	62	KED
	Y	**89**		ug/L			38752	39183	1	Standard
	Kr	**83**		ug/L			40	40	37	Standard
⌈>	**In-1**	**115**		ug/L			6124	5504	2	KED
|	**Cd**	**111**	**-0.012**	ug/L	0.005	44	4	1	86	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.004	123	3	1	100	KED
⌈>	**In**	**115**		ug/L			412702	427851	2	Standard
⌊	**Ag**	**107**	**-0.000**	ug/L	0.000	45	17	10	26	Standard
⌈>	**Tb**	**159**		ug/L			165777	170202	0	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.000	15	350	252	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVL
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 05:12:29
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26244	24982	6	Standard
⌈>	**Sc**	**45**		ug/L			448237	453215	3	Standard
|	**Cr**	**52**	**46.451**	ug/L	0.802	1	8038	579315	4	Standard
⌊	**Cr**	**53**	**46.660**	ug/L	1.299	2	50	66213	3	Standard
⌈>	**Ge**	**72**		ug/L			28647	27759	1	KED
|	**Cu**	**63**	**50.342**	ug/L	0.608	1	51	185775	2	KED
|	**Cu**	**65**	**49.546**	ug/L	0.295	0	25	92845	0	KED
|	**Zn**	**66**	**51.625**	ug/L	0.166	0	36	23695	1	KED
|	**Zn**	**67**	**50.095**	ug/L	1.491	2	6	3749	2	KED
⌊	**As**	**75**	**49.557**	ug/L	0.556	1	2	11076	1	KED
	Y	**89**		ug/L			38752	39500	1	Standard
	Kr	**83**		ug/L			40	34	16	Standard
⌈>	**In-1**	**115**		ug/L			6124	5581	2	KED
|	**Cd**	**111**	**50.088**	ug/L	2.172	4	4	10108	2	KED
⌊	**Cd**	**114**	**50.711**	ug/L	2.220	4	3	26104	1	KED
⌈>	**In**	**115**		ug/L			412702	408762	1	Standard
⌊	**Ag**	**107**	**47.187**	ug/L	0.917	1	17	628146	3	Standard
⌈>	**Tb**	**159**		ug/L			165777	170367	0	Standard
⌊	**Pb**	**208**	**53.286**	ug/L	0.162	0	350	4384594	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBL
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 05:19:36
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26244	24546	5	Standard
⌈>	**Sc**	**45**		ug/L			448237	439611	0	Standard
|	**Cr**	**52**	**-0.027**	ug/L	0.003	10	8038	7559	0	Standard
⌊	**Cr**	**53**	**0.001**	ug/L	0.003	232	50	51	6	Standard
⌈>	**Ge**	**72**		ug/L			28647	27443	2	KED
|	**Cu**	**63**	**0.019**	ug/L	0.029	156	51	119	93	KED
|	**Cu**	**65**	**0.012**	ug/L	0.026	220	25	46	106	KED
|	**Zn**	**66**	**0.036**	ug/L	0.050	137	36	52	46	KED
|	**Zn**	**67**	**-0.023**	ug/L	0.051	227	6	5	78	KED
⌊	**As**	**75**	**0.028**	ug/L	0.028	101	2	8	75	KED
	Y	**89**		ug/L			38752	38324	0	Standard
	Kr	**83**		ug/L			40	34	39	Standard
⌈>	**In-1**	**115**		ug/L			6124	5670	1	KED
|	**Cd**	**111**	**-0.011**	ug/L	0.005	48	4	1	69	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.004	225	3	4	49	KED
⌈>	**In**	**115**		ug/L			412702	412049	0	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.000	8	17	31	3	Standard
⌈>	**Tb**	**159**		ug/L			165777	164866	1	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	67	350	402	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0442-03
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 05:23:58
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26244	40373	7	Standard
>	**Sc**	**45**		ug/L			448237	599787	2	Standard
	Cr	**52**	**0.551**	ug/L	0.022	3	8038	19717	3	Standard
	Cr	**53**	**0.814**	ug/L	0.039	4	50	1596	5	Standard
>	**Ge**	**72**		ug/L			28647	24092	0	KED
	Cu	**63**	**0.283**	ug/L	0.020	7	51	950	7	KED
	Cu	**65**	**0.276**	ug/L	0.023	8	25	469	7	KED
	Zn	**66**	**1.464**	ug/L	0.041	2	36	613	1	KED
	Zn	**67**	**2.906**	ug/L	0.225	7	6	194	6	KED
	As	**75**	**12.475**	ug/L	0.185	1	2	2421	0	KED
	Y	**89**		ug/L			38752	68837	1	Standard
	Kr	**83**		ug/L			40	35	8	Standard
>	**In-1**	**115**		ug/L			6124	4859	2	KED
	Cd	**111**	**0.005**	ug/L	0.013	259	4	4	53	KED
	Cd	**114**	**0.007**	ug/L	0.007	88	3	6	45	KED
>	**In**	**115**		ug/L			412702	328354	3	Standard
	Ag	**107**	**0.010**	ug/L	0.002	20	17	118	19	Standard
>	**Tb**	**159**		ug/L			165777	138260	3	Standard
	Pb	**208**	**0.026**	ug/L	0.001	3	350	2038	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0442-04
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 05:28:19
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26244	34260	5	Standard
⌈>	**Sc**	**45**		ug/L			448237	526058	2	Standard
|	**Cr**	**52**	**0.649**	ug/L	0.021	3	8038	18686	2	Standard
⌊	**Cr**	**53**	**0.860**	ug/L	0.041	4	50	1475	7	Standard
⌈>	**Ge**	**72**		ug/L			28647	24934	2	KED
|	**Cu**	**63**	**3.118**	ug/L	0.123	3	51	10370	2	KED
|	**Cu**	**65**	**3.010**	ug/L	0.078	2	25	5085	2	KED
|	**Zn**	**66**	**8.387**	ug/L	0.245	2	36	3483	1	KED
|	**Zn**	**67**	**8.270**	ug/L	0.453	5	6	561	5	KED
⌊	**As**	**75**	**1.589**	ug/L	0.068	4	2	320	2	KED
	Y	**89**		ug/L			38752	57215	1	Standard
	Kr	**83**		ug/L			40	37	25	Standard
⌈>	**In-1**	**115**		ug/L			6124	4993	2	KED
|	**Cd**	**111**	**0.004**	ug/L	0.011	258	4	4	48	KED
⌊	**Cd**	**114**	**0.009**	ug/L	0.013	140	3	7	80	KED
⌈>	**In**	**115**		ug/L			412702	389749	2	Standard
⌊	**Ag**	**107**	**0.011**	ug/L	0.001	7	17	161	4	Standard
⌈>	**Tb**	**159**		ug/L			165777	166152	1	Standard
⌊	**Pb**	**208**	**0.068**	ug/L	0.002	2	350	5824	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0442-05
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 05:32:40

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26244	33105	5	Standard
>	**Sc**	**45**		ug/L			448237	607600	1	Standard
	Cr	**52**	**0.733**	ug/L	0.031	4	8038	22967	0	Standard
	Cr	**53**	**0.959**	ug/L	0.018	1	50	1891	0	Standard
>	**Ge**	**72**		ug/L			28647	21788	15	KED
	Cu	**63**	**0.125**	ug/L	0.022	17	51	395	4	KED
	Cu	**65**	**0.137**	ug/L	0.035	25	25	215	6	KED
	Zn	**66**	**1.022**	ug/L	0.258	25	36	386	6	KED
	Zn	**67**	**2.284**	ug/L	0.788	34	6	134	15	KED
	As	**75**	**21.548**	ug/L	2.498	11	2	3736	4	KED
	Y	**89**		ug/L			38752	64840	2	Standard
	Kr	**83**		ug/L			40	35	15	Standard
>	**In-1**	**115**		ug/L			6124	4804	2	KED
	Cd	**111**	**-0.008**	ug/L	0.005	70	4	1	50	KED
	Cd	**114**	**-0.005**	ug/L	0.002	45	3	0	135	KED
>	**In**	**115**		ug/L			412702	373853	1	Standard
	Ag	**107**	**0.005**	ug/L	0.001	14	17	74	11	Standard
>	**Tb**	**159**		ug/L			165777	159311	2	Standard
	Pb	**208**	**0.019**	ug/L	0.001	5	350	1763	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0442-06
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 05:36:56
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			26244	38801	5	Standard
>	Sc	45		ug/L			448237	625527	2	Standard
	Cr	52	0.747	ug/L	0.006	0	8038	23900	2	Standard
	Cr	53	1.077	ug/L	0.007	0	50	2178	2	Standard
>	Ge	72		ug/L			28647	23769	0	KED
	Cu	63	0.058	ug/L	0.006	9	51	226	7	KED
	Cu	65	0.058	ug/L	0.007	12	25	113	10	KED
	Zn	66	0.539	ug/L	0.030	5	36	241	4	KED
	Zn	67	2.082	ug/L	0.155	7	6	139	7	KED
	As	75	5.811	ug/L	0.095	1	2	1114	1	KED
	Y	89		ug/L			38752	67879	0	Standard
	Kr	83		ug/L			40	35	17	Standard
>	In-1	115		ug/L			6124	4815	3	KED
	Cd	111	0.005	ug/L	0.009	175	4	4	35	KED
	Cd	114	-0.002	ug/L	0.005	305	3	2	101	KED
>	In	115		ug/L			412702	358808	1	Standard
	Ag	107	0.004	ug/L	0.000	10	17	57	8	Standard
>	Tb	159		ug/L			165777	152290	1	Standard
	Pb	208	0.009	ug/L	0.000	2	350	1012	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0598-04
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 05:42:41

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			26244	17761	6	Standard
> Sc	45		ug/L			448237	231078	5	Standard
Cr	52	0.723	ug/L	0.026	3	8038	8673	3	Standard
Cr	53	52.191	ug/L	0.345	0	50	37759	4	Standard
> Ge	72		ug/L			28647	8352	0	KED
Cu	63	1.544	ug/L	0.059	3	51	1729	4	KED
Cu	65	1.599	ug/L	0.122	7	25	908	6	KED
Zn	66	8.637	ug/L	0.767	8	36	1201	7	KED
Zn	67	10.530	ug/L	1.169	11	6	238	10	KED
As	75	1.235	ug/L	0.043	3	2	83	4	KED
Y	89		ug/L			38752	19425	4	Standard
Kr	83		ug/L			40	1582	3	Standard
> In-1	115		ug/L			6124	1935	1	KED
Cd	111	0.108	ug/L	0.063	58	4	8	50	KED
Cd	114	0.056	ug/L	0.012	21	3	11	17	KED
> In	115		ug/L			412702	116852	4	Standard
Ag	107	0.011	ug/L	0.000	3	17	48	6	Standard
> Tb	159		ug/L			165777	51852	3	Standard
Pb	208	0.021	ug/L	0.000	1	350	647	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0598-06
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 05:47:03
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			26244	30698	5	Standard
> Sc	45		ug/L			448237	363422	3	Standard
Cr	52	0.375	ug/L	0.020	5	8038	10218	3	Standard
Cr	53	22.456	ug/L	0.436	1	50	25575	3	Standard
> Ge	72		ug/L			28647	15417	1	KED
Cu	63	0.551	ug/L	0.018	3	51	1156	3	KED
Cu	65	0.543	ug/L	0.028	5	25	578	4	KED
Zn	66	2.326	ug/L	0.100	4	36	612	5	KED
Zn	67	5.124	ug/L	0.163	3	6	216	4	KED
As	75	1.788	ug/L	0.044	2	2	223	3	KED
Y	89		ug/L			38752	26993	4	Standard
Kr	83		ug/L			40	332	6	Standard
> In-1	115		ug/L			6124	3207	1	KED
Cd	111	0.058	ug/L	0.013	22	4	8	16	KED
Cd	114	0.042	ug/L	0.010	23	3	14	20	KED
> In	115		ug/L			412702	197126	2	Standard
Ag	107	0.003	ug/L	0.002	58	17	24	38	Standard
> Tb	159		ug/L			165777	90869	2	Standard
Pb	208	0.018	ug/L	0.000	1	350	984	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0598-08
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 05:51:24
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			26244	59809	4	Standard
> Sc	45		ug/L			448237	608571	1	Standard
Cr	52	0.829	ug/L	0.027	3	8038	24593	1	Standard
Cr	53	5.633	ug/L	0.074	1	50	10796	2	Standard
> Ge	72		ug/L			28647	31934	0	KED
Cu	63	3.272	ug/L	0.072	2	51	13944	1	KED
Cu	65	3.165	ug/L	0.081	2	25	6849	2	KED
Zn	66	0.823	ug/L	0.007	0	36	474	0	KED
Zn	67	0.803	ug/L	0.073	9	6	76	7	KED
As	75	1.529	ug/L	0.088	5	2	395	5	KED
Y	89		ug/L			38752	57187	1	Standard
Kr	83		ug/L			40	43	11	Standard
> In-1	115		ug/L			6124	6343	2	KED
Cd	111	-0.001	ug/L	0.012	1465	4	4	70	KED
Cd	114	-0.001	ug/L	0.005	539	3	3	98	KED
> In	115		ug/L			412702	392034	3	Standard
Ag	107	0.001	ug/L	0.001	70	17	25	22	Standard
> Tb	159		ug/L			165777	178669	0	Standard
Pb	208	0.014	ug/L	0.000	3	350	1605	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0598-10
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 05:55:40
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			26244	58330	4	Standard
>	Sc	45		ug/L			448237	572775	1	Standard
	Cr	52	0.948	ug/L	0.041	4	8038	24998	1	Standard
	Cr	53	4.323	ug/L	0.041	0	50	7812	1	Standard
>	Ge	72		ug/L			28647	30641	1	KED
	Cu	63	3.485	ug/L	0.041	1	51	14244	0	KED
	Cu	65	3.457	ug/L	0.077	2	25	7174	0	KED
	Zn	66	1.100	ug/L	0.065	5	36	595	5	KED
	Zn	67	0.972	ug/L	0.110	11	6	87	9	KED
	As	75	1.541	ug/L	0.122	7	2	382	6	KED
	Y	89		ug/L			38752	53861	2	Standard
	Kr	83		ug/L			40	51	25	Standard
>	In-1	115		ug/L			6124	6056	1	KED
	Cd	111	-0.006	ug/L	0.011	196	4	2	88	KED
	Cd	114	-0.002	ug/L	0.005	286	3	2	110	KED
>	In	115		ug/L			412702	378024	1	Standard
	Ag	107	0.002	ug/L	0.001	49	17	37	28	Standard
>	Tb	159		ug/L			165777	174038	1	Standard
	Pb	208	0.022	ug/L	0.001	4	350	2214	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0598-12
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 06:00:25
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			26244	46185	4	Standard
>	Sc	45		ug/L			448237	544548	1	Standard
	Cr	52	0.246	ug/L	0.027	10	8038	13403	2	Standard
	Cr	53	0.968	ug/L	0.041	4	50	1710	3	Standard
>	Ge	72		ug/L			28647	33646	1	KED
	Cu	63	0.532	ug/L	0.002	0	51	2440	1	KED
	Cu	65	0.517	ug/L	0.033	6	25	1203	7	KED
	Zn	66	0.649	ug/L	0.047	7	36	403	5	KED
	Zn	67	0.792	ug/L	0.115	14	6	80	13	KED
	As	75	0.001	ug/L	0.003	384	2	3	22	KED
	Y	89		ug/L			38752	38286	3	Standard
	Kr	83		ug/L			40	50	30	Standard
>	In-1	115		ug/L			6124	6661	2	KED
	Cd	111	-0.011	ug/L	0.004	38	4	1	50	KED
	Cd	114	0.000	ug/L	0.005	4473	3	4	70	KED
>	In	115		ug/L			412702	424435	1	Standard
	Ag	107	-0.000	ug/L	0.000	66	17	15	12	Standard
>	Tb	159		ug/L			165777	183413	1	Standard
	Pb	208	0.008	ug/L	0.001	7	350	1083	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLP
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 06:04:47
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26244	31558	2	Standard
⌈>	**Sc**	**45**		ug/L			448237	504623	2	Standard
|	**Cr**	**52**	**0.042**	ug/L	0.026	61	8038	9628	4	Standard
⌊	**Cr**	**53**	**0.566**	ug/L	0.015	2	50	950	3	Standard
⌈>	**Ge**	**72**		ug/L			28647	32567	3	KED
|	**Cu**	**63**	**-0.006**	ug/L	0.001	11	51	33	6	KED
|	**Cu**	**65**	**-0.007**	ug/L	0.003	43	25	13	51	KED
|	**Zn**	**66**	**-0.011**	ug/L	0.005	47	36	36	10	KED
|	**Zn**	**67**	**-0.040**	ug/L	0.032	79	6	4	65	KED
⌊	**As**	**75**	**-0.000**	ug/L	0.006	8494	2	2	50	KED
	Y	**89**		ug/L			38752	36421	2	Standard
	Kr	**83**		ug/L			40	50	28	Standard
⌈>	**In-1**	**115**		ug/L			6124	6465	1	KED
|	**Cd**	**111**	**0.002**	ug/L	0.008	469	4	4	40	KED
⌊	**Cd**	**114**	**-0.005**	ug/L	0.002	39	3	1	94	KED
⌈>	**In**	**115**		ug/L			412702	404097	3	Standard
⌊	**Ag**	**107**	**-0.000**	ug/L	0.000	250	17	14	41	Standard
⌈>	**Tb**	**159**		ug/L			165777	173806	2	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.000	62	350	307	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVM
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 06:09:09
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26244	28089	4	Standard
⎡>	**Sc**	**45**		ug/L			448237	500238	2	Standard
⎢	**Cr**	**52**	**46.342**	ug/L	1.666	3	8038	637635	2	Standard
⎣	**Cr**	**53**	**46.258**	ug/L	1.384	2	50	72443	1	Standard
⎡>	**Ge**	**72**		ug/L			28647	31798	1	KED
⎢	**Cu**	**63**	**49.989**	ug/L	0.628	1	51	211286	0	KED
⎢	**Cu**	**65**	**48.835**	ug/L	0.757	1	25	104828	1	KED
⎢	**Zn**	**66**	**50.384**	ug/L	0.727	1	36	26491	1	KED
⎢	**Zn**	**67**	**50.846**	ug/L	1.716	3	6	4360	2	KED
⎣	**As**	**75**	**49.456**	ug/L	0.873	1	2	12661	0	KED
	Y	**89**		ug/L			38752	36596	0	Standard
	Kr	**83**		ug/L			40	48	17	Standard
⎡>	**In-1**	**115**		ug/L			6124	6257	4	KED
⎢	**Cd**	**111**	**48.679**	ug/L	2.211	4	4	11005	0	KED
⎣	**Cd**	**114**	**50.875**	ug/L	1.485	2	3	29353	1	KED
⎡>	**In**	**115**		ug/L			412702	394200	1	Standard
⎣	**Ag**	**107**	**48.362**	ug/L	1.578	3	17	620685	3	Standard
⎡>	**Tb**	**159**		ug/L			165777	177982	1	Standard
⎣	**Pb**	**208**	**50.250**	ug/L	0.383	0	350	4319833	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBM
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 06:16:15
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26244	26594	2	Standard
⌈>	**Sc**	**45**		ug/L			448237	488958	3	Standard
|	**Cr**	**52**	**-0.022**	ug/L	0.004	18	8038	8484	4	Standard
⌊	**Cr**	**53**	**0.321**	ug/L	0.023	7	50	546	9	Standard
⌈>	**Ge**	**72**		ug/L			28647	31070	2	KED
|	**Cu**	**63**	**-0.007**	ug/L	0.004	62	51	27	64	KED
|	**Cu**	**65**	**-0.007**	ug/L	0.004	59	25	12	67	KED
|	**Zn**	**66**	**-0.017**	ug/L	0.001	5	36	31	3	KED
|	**Zn**	**67**	**0.024**	ug/L	0.024	103	6	9	20	KED
⌊	**As**	**75**	**0.007**	ug/L	0.003	34	2	4	11	KED
	Y	**89**		ug/L			38752	37149	2	Standard
	Kr	**83**		ug/L			40	43	15	Standard
⌈>	**In-1**	**115**		ug/L			6124	6245	1	KED
|	**Cd**	**111**	**-0.003**	ug/L	0.007	207	4	3	41	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.004	412	3	4	50	KED
⌈>	**In**	**115**		ug/L			412702	405028	1	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.001	23	17	45	15	Standard
⌈>	**Tb**	**159**		ug/L			165777	173523	1	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	7	350	428	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0514-02
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 06:20:37
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26244	42525	2	Standard
⌈>	**Sc**	**45**		ug/L			448237	694230	1	Standard
|	**Cr**	**52**	**0.236**	ug/L	0.020	8	8038	16904	2	Standard
⌊	**Cr**	**53**	**0.703**	ug/L	0.020	2	50	1605	2	Standard
⌈>	**Ge**	**72**		ug/L			28647	28128	1	KED
|	**Cu**	**63**	**0.138**	ug/L	0.007	4	51	566	5	KED
|	**Cu**	**65**	**0.147**	ug/L	0.014	9	25	304	8	KED
|	**Zn**	**66**	**1.017**	ug/L	0.040	3	36	508	4	KED
|	**Zn**	**67**	**1.370**	ug/L	0.197	14	6	110	11	KED
⌊	**As**	**75**	**2.219**	ug/L	0.058	2	2	504	2	KED
	Y	**89**		ug/L			38752	47039	3	Standard
	Kr	**83**		ug/L			40	53	30	Standard
⌈>	**In-1**	**115**		ug/L			6124	5687	4	KED
|	**Cd**	**111**	**0.017**	ug/L	0.012	70	4	7	32	KED
⌊	**Cd**	**114**	**0.015**	ug/L	0.010	62	3	11	43	KED
⌈>	**In**	**115**		ug/L			412702	371523	1	Standard
⌊	**Ag**	**107**	**0.004**	ug/L	0.002	47	17	64	35	Standard
⌈>	**Tb**	**159**		ug/L			165777	163663	1	Standard
⌊	**Pb**	**208**	**0.071**	ug/L	0.003	3	350	5976	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0514-03
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 06:24:58
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			26244	49735	5	Standard
>	Sc	45		ug/L			448237	570785	3	Standard
	Cr	52	0.511	ug/L	0.020	3	8038	18141	1	Standard
	Cr	53	0.873	ug/L	0.037	4	50	1624	5	Standard
>	Ge	72		ug/L			28647	29362	0	KED
	Cu	63	5.258	ug/L	0.024	0	51	20569	0	KED
	Cu	65	5.291	ug/L	0.056	1	25	10511	1	KED
	Zn	66	11.958	ug/L	0.123	1	36	5834	1	KED
	Zn	67	11.733	ug/L	0.504	4	6	934	4	KED
	As	75	1.838	ug/L	0.059	3	2	437	3	KED
	Y	89		ug/L			38752	48599	3	Standard
	Kr	83		ug/L			40	41	23	Standard
>	In-1	115		ug/L			6124	5717	3	KED
	Cd	111	0.126	ug/L	0.016	12	4	29	10	KED
	Cd	114	0.101	ug/L	0.030	29	3	56	26	KED
>	In	115		ug/L			412702	403369	0	Standard
	Ag	107	0.016	ug/L	0.003	21	17	224	20	Standard
>	Tb	159		ug/L			165777	178062	0	Standard
	Pb	208	0.305	ug/L	0.006	1	350	26620	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0514-04
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 06:29:20
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			26244	41883	1	Standard
>	Sc	45		ug/L			448237	685666	2	Standard
	Cr	52	0.283	ug/L	0.016	5	8038	17558	2	Standard
	Cr	53	0.708	ug/L	0.006	0	50	1596	2	Standard
>	Ge	72		ug/L			28647	26983	1	KED
	Cu	63	0.137	ug/L	0.006	4	51	539	5	KED
	Cu	65	0.142	ug/L	0.007	4	25	282	5	KED
	Zn	66	1.440	ug/L	0.092	6	36	676	6	KED
	Zn	67	2.462	ug/L	0.159	6	6	185	5	KED
	As	75	1.745	ug/L	0.086	4	2	381	5	KED
	Y	89		ug/L			38752	46722	1	Standard
	Kr	83		ug/L			40	34	22	Standard
>	In-1	115		ug/L			6124	5415	3	KED
	Cd	111	-0.004	ug/L	0.010	231	4	2	66	KED
	Cd	114	0.008	ug/L	0.004	45	3	7	28	KED
>	In	115		ug/L			412702	366298	3	Standard
	Ag	107	0.002	ug/L	0.000	23	17	34	15	Standard
>	Tb	159		ug/L			165777	159318	1	Standard
	Pb	208	0.019	ug/L	0.001	5	350	1767	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0514-06
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 06:33:35
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26244	47810	6	Standard
⌈>	**Sc**	**45**		ug/L			448237	543763	2	Standard
|	**Cr**	**52**	**0.830**	ug/L	0.029	3	8038	21986	1	Standard
⌊	**Cr**	**53**	**1.101**	ug/L	0.010	0	50	1935	3	Standard
⌈>	**Ge**	**72**		ug/L			28647	26460	0	KED
|	**Cu**	**63**	**2.170**	ug/L	0.030	1	51	7677	1	KED
|	**Cu**	**65**	**2.101**	ug/L	0.035	1	25	3775	1	KED
|	**Zn**	**66**	**2.952**	ug/L	0.169	5	36	1323	5	KED
|	**Zn**	**67**	**3.421**	ug/L	0.336	9	6	250	9	KED
⌊	**As**	**75**	**3.319**	ug/L	0.074	2	2	709	1	KED
	Y	**89**		ug/L			38752	45453	1	Standard
	Kr	**83**		ug/L			40	45	17	Standard
⌈>	**In-1**	**115**		ug/L			6124	5459	3	KED
|	**Cd**	**111**	**0.041**	ug/L	0.006	15	4	11	9	KED
⌊	**Cd**	**114**	**0.061**	ug/L	0.023	37	3	34	30	KED
⌈>	**In**	**115**		ug/L			412702	373404	1	Standard
⌊	**Ag**	**107**	**0.011**	ug/L	0.002	16	17	153	14	Standard
⌈>	**Tb**	**159**		ug/L			165777	163816	0	Standard
⌊	**Pb**	**208**	**0.135**	ug/L	0.004	3	350	11014	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLQ
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 06:37:58
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26244	27742	3	Standard
⌈>	**Sc**	**45**		ug/L			448237	457309	2	Standard
|	**Cr**	**52**	**-0.042**	ug/L	0.020	48	8038	7672	2	Standard
⌊	**Cr**	**53**	**0.192**	ug/L	0.011	5	50	326	6	Standard
⌈>	**Ge**	**72**		ug/L			28647	28109	0	KED
|	**Cu**	**63**	**-0.007**	ug/L	0.001	15	51	24	16	KED
|	**Cu**	**65**	**-0.002**	ug/L	0.001	60	25	20	14	KED
|	**Zn**	**66**	**-0.045**	ug/L	0.011	24	36	15	33	KED
|	**Zn**	**67**	**-0.049**	ug/L	0.014	29	6	3	34	KED
⌊	**As**	**75**	**-0.002**	ug/L	0.004	227	2	2	48	KED
	Y	**89**		ug/L			38752	36044	2	Standard
	Kr	**83**		ug/L			40	33	13	Standard
⌈>	**In-1**	**115**		ug/L			6124	5782	2	KED
|	**Cd**	**111**	**-0.014**	ug/L	0.004	31	4	0	100	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.002	92	3	2	46	KED
⌈>	**In**	**115**		ug/L			412702	400011	1	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.000	79	17	8	68	Standard
⌈>	**Tb**	**159**		ug/L			165777	168328	1	Standard
⌊	**Pb**	**208**	**-0.002**	ug/L	0.000	1	350	154	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0598-02
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Friday, May 12, 2023 06:42:20
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			26244	17383	7	Standard
> Sc	45		ug/L			448237	262738	5	Standard
Cr	52	1.775	ug/L	0.041	2	8038	17357	4	Standard
Cr	53	28.313	ug/L	0.623	2	50	23306	5	Standard
> Ge	72		ug/L			28647	9849	3	KED
Cu	63	1.282	ug/L	0.041	3	51	1695	4	KED
Cu	65	1.311	ug/L	0.020	1	25	880	3	KED
Zn	66	1.433	ug/L	0.203	14	36	245	10	KED
Zn	67	2.135	ug/L	0.094	4	6	59	6	KED
As	75	0.799	ug/L	0.049	6	2	64	9	KED
Y	89		ug/L			38752	21862	3	Standard
Kr	83		ug/L			40	427	11	Standard
> In-1	115		ug/L			6124	2264	3	KED
Cd	111	0.047	ug/L	0.012	24	4	5	20	KED
Cd	114	0.032	ug/L	0.011	33	3	7	26	KED
> In	115		ug/L			412702	153829	2	Standard
Ag	107	0.009	ug/L	0.001	7	17	50	5	Standard
> Tb	159		ug/L			165777	69804	1	Standard
Pb	208	0.022	ug/L	0.002	7	350	878	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0119-DUP1
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Friday, May 12, 2023 06:46:41
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			26244	19225	8	Standard
> Sc	45		ug/L			448237	275105	4	Standard
Cr	52	1.762	ug/L	0.046	2	8038	18085	5	Standard
Cr	53	26.406	ug/L	0.418	1	50	22755	3	Standard
> Ge	72		ug/L			28647	10607	1	KED
Cu	63	1.177	ug/L	0.025	2	51	1678	2	KED
Cu	65	1.181	ug/L	0.074	6	25	855	7	KED
Zn	66	1.257	ug/L	0.109	8	36	233	7	KED
Zn	67	2.666	ug/L	0.397	14	6	78	14	KED
As	75	0.734	ug/L	0.064	8	2	63	9	KED
Y	89		ug/L			38752	21868	3	Standard
Kr	83		ug/L			40	403	11	Standard
> In-1	115		ug/L			6124	2247	3	KED
Cd	111	0.021	ug/L	0.029	137	4	3	69	KED
Cd	114	0.031	ug/L	0.036	115	3	8	98	KED
> In	115		ug/L			412702	153606	3	Standard
Ag	107	0.008	ug/L	0.002	22	17	47	17	Standard
> Tb	159		ug/L			165777	70087	1	Standard
Pb	208	0.022	ug/L	0.001	4	350	903	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0119-MS1
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 06:50:57

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			26244	19786	7	Standard
> Sc	45		ug/L			448237	271230	3	Standard
Cr	52	22.694	ug/L	0.111	0	8038	171840	3	Standard
Cr	53	48.152	ug/L	0.772	1	50	40887	1	Standard
> Ge	72		ug/L			28647	10203	0	KED
Cu	63	23.880	ug/L	0.347	1	51	32394	0	KED
Cu	65	23.525	ug/L	0.285	1	25	16209	1	KED
Zn	66	54.684	ug/L	1.607	2	36	9223	2	KED
Zn	67	52.527	ug/L	1.653	3	6	1445	2	KED
As	75	22.030	ug/L	0.207	0	2	1810	0	KED
Y	89		ug/L			38752	21673	2	Standard
Kr	83		ug/L			40	396	7	Standard
> In-1	115		ug/L			6124	2158	4	KED
Cd	111	18.081	ug/L	0.659	3	4	1411	0	KED
Cd	114	18.159	ug/L	1.307	7	3	3610	2	KED
> In	115		ug/L			412702	146661	2	Standard
Ag	107	19.086	ug/L	0.043	0	17	91147	2	Standard
> Tb	159		ug/L			165777	68582	0	Standard
Pb	208	18.976	ug/L	0.354	1	350	628618	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0119-MSD1
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 06:55:42

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			26244	18283	7	Standard
> Sc	45		ug/L			448237	267654	4	Standard
Cr	52	22.434	ug/L	0.131	0	8038	167669	3	Standard
Cr	53	47.760	ug/L	1.118	2	50	40059	6	Standard
> Ge	72		ug/L			28647	9434	10	KED
Cu	63	25.810	ug/L	2.584	10	51	32147	1	KED
Cu	65	25.541	ug/L	2.840	11	25	16143	1	KED
Zn	66	58.973	ug/L	6.566	11	36	9126	2	KED
Zn	67	59.017	ug/L	7.534	12	6	1487	2	KED
As	75	24.201	ug/L	2.608	10	2	1824	0	KED
Y	89		ug/L			38752	21695	2	Standard
Kr	83		ug/L			40	455	15	Standard
> In-1	115		ug/L			6124	2156	4	KED
Cd	111	17.767	ug/L	1.089	6	4	1384	3	KED
Cd	114	18.136	ug/L	1.419	7	3	3601	3	KED
> In	115		ug/L			412702	143050	1	Standard
Ag	107	19.186	ug/L	0.138	0	17	89372	2	Standard
> Tb	159		ug/L			165777	67422	1	Standard
Pb	208	19.372	ug/L	0.410	2	350	630859	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLR
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 07:00:05
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			26244	31830	1	Standard
> Sc	45		ug/L			448237	567342	1	Standard
Cr	52	0.053	ug/L	0.016	29	8038	10997	3	Standard
Cr	53	0.841	ug/L	0.029	3	50	1557	4	Standard
> Ge	72		ug/L			28647	36154	0	KED
Cu	63	-0.003	ug/L	0.001	21	51	51	6	KED
Cu	65	-0.005	ug/L	0.001	13	25	19	10	KED
Zn	66	-0.003	ug/L	0.012	356	36	44	16	KED
Zn	67	-0.013	ug/L	0.051	408	6	7	66	KED
As	75	0.000	ug/L	0.009	1846	2	3	75	KED
Y	89		ug/L			38752	37108	4	Standard
Kr	83		ug/L			40	24	7	Standard
> In-1	115		ug/L			6124	6953	2	KED
Cd	111	-0.001	ug/L	0.009	836	4	4	53	KED
Cd	114	0.000	ug/L	0.002	3619	3	4	26	KED
> In	115		ug/L			412702	402007	1	Standard
Ag	107	0.001	ug/L	0.000	28	17	25	11	Standard
> Tb	159		ug/L			165777	180143	0	Standard
Pb	208	0.004	ug/L	0.001	16	350	743	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVN
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 07:04:27
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26244	25754	4	Standard
⌈>	**Sc**	**45**		ug/L			448237	474757	2	Standard
|	**Cr**	**52**	**43.291**	ug/L	1.489	3	8038	565734	1	Standard
⌊	**Cr**	**53**	**42.910**	ug/L	1.575	3	50	63770	1	Standard
⌈>	**Ge**	**72**		ug/L			28647	30689	1	KED
|	**Cu**	**63**	**49.123**	ug/L	1.272	2	51	200344	1	KED
|	**Cu**	**65**	**49.656**	ug/L	1.766	3	25	102847	2	KED
|	**Zn**	**66**	**50.650**	ug/L	1.285	2	36	25703	2	KED
|	**Zn**	**67**	**49.862**	ug/L	0.427	0	6	4127	2	KED
⌊	**As**	**75**	**50.245**	ug/L	1.001	1	2	12413	0	KED
	Y	**89**		ug/L			38752	35167	1	Standard
	Kr	**83**		ug/L			40	36	24	Standard
⌈>	**In-1**	**115**		ug/L			6124	5715	1	KED
|	**Cd**	**111**	**51.094**	ug/L	0.347	0	4	10567	2	KED
⌊	**Cd**	**114**	**52.390**	ug/L	0.384	0	3	27634	1	KED
⌈>	**In**	**115**		ug/L			412702	369882	1	Standard
⌊	**Ag**	**107**	**49.464**	ug/L	1.593	3	17	595465	1	Standard
⌈>	**Tb**	**159**		ug/L			165777	164981	1	Standard
⌊	**Pb**	**208**	**51.634**	ug/L	0.630	1	350	4113891	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBN
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 07:11:32
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26244	23764	2	Standard
⌈>	**Sc**	**45**		ug/L			448237	443773	0	Standard
|	**Cr**	**52**	**-0.062**	ug/L	0.026	41	8038	7214	3	Standard
⌊	**Cr**	**53**	**0.364**	ug/L	0.031	8	50	554	7	Standard
⌈>	**Ge**	**72**		ug/L			28647	28900	2	KED
|	**Cu**	**63**	**-0.004**	ug/L	0.003	71	51	36	32	KED
|	**Cu**	**65**	**-0.006**	ug/L	0.001	16	25	13	15	KED
|	**Zn**	**66**	**-0.024**	ug/L	0.036	153	36	26	67	KED
|	**Zn**	**67**	**-0.009**	ug/L	0.016	184	6	6	17	KED
⌊	**As**	**75**	**0.009**	ug/L	0.003	36	2	4	15	KED
	Y	**89**		ug/L			38752	34249	3	Standard
	Kr	**83**		ug/L			40	29	24	Standard
⌈>	**In-1**	**115**		ug/L			6124	5750	0	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.009	511	4	3	56	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.007	1391	3	3	102	KED
⌈>	**In**	**115**		ug/L			412702	368942	2	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.001	58	17	40	37	Standard
⌈>	**Tb**	**159**		ug/L			165777	159010	0	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	89	350	368	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 07:15:54
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				23953	4	Standard
⌈>	**Sc**	**45**		ug/L				443281	1	Standard
|	**Cr**	**52**		ug/L				7163	2	Standard
⌊	**Cr**	**53**		ug/L				487	7	Standard
⌈>	**Ge**	**72**		ug/L				28284	0	KED
|	**Cu**	**63**		ug/L				33	17	KED
|	**Cu**	**65**		ug/L				11	60	KED
|	**Zn**	**66**		ug/L				33	8	KED
|	**Zn**	**67**		ug/L				6	62	KED
⌊	**As**	**75**		ug/L				2	0	KED
	Y	**89**		ug/L				34497	2	Standard
	Kr	**83**		ug/L				33	8	Standard
⌈>	**In-1**	**115**		ug/L				5536	3	KED
|	**Cd**	**111**		ug/L				4	107	KED
⌊	**Cd**	**114**		ug/L				6	129	KED
⌈>	**In**	**115**		ug/L				370942	2	Standard
⌊	**Ag**	**107**		ug/L				18	51	Standard
⌈>	**Tb**	**159**		ug/L				161944	3	Standard
⌊	**Pb**	**208**		ug/L				380	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVO
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 07:20:16
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	23823	6	Standard
⌈>	**Sc**	**45**		ug/L			443281	457972	4	Standard
|	**Cr**	**52**	**43.059**	ug/L	0.364	0	7163	542248	3	Standard
⌊	**Cr**	**53**	**42.527**	ug/L	0.121	0	487	61452	4	Standard
⌈>	**Ge**	**72**		ug/L			28284	28052	2	KED
|	**Cu**	**63**	**49.368**	ug/L	1.094	2	33	184033	2	KED
|	**Cu**	**65**	**47.907**	ug/L	1.398	2	11	90672	0	KED
|	**Zn**	**66**	**49.389**	ug/L	0.984	1	33	22904	2	KED
|	**Zn**	**67**	**49.684**	ug/L	1.707	3	6	3756	1	KED
⌊	**As**	**75**	**49.256**	ug/L	1.063	2	2	11121	0	KED
	Y	**89**		ug/L			34497	36275	2	Standard
	Kr	**83**		ug/L			33	35	34	Standard
⌈>	**In-1**	**115**		ug/L			5536	5491	2	KED
|	**Cd**	**111**	**49.085**	ug/L	1.079	2	4	9749	1	KED
⌊	**Cd**	**114**	**50.502**	ug/L	0.827	1	6	25592	1	KED
⌈>	**In**	**115**		ug/L			370942	367831	2	Standard
⌊	**Ag**	**107**	**49.011**	ug/L	1.052	2	18	586941	2	Standard
⌈>	**Tb**	**159**		ug/L			161944	163763	1	Standard
⌊	**Pb**	**208**	**51.969**	ug/L	0.843	1	380	4110823	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBO
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 07:27:22
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	23985	3	Standard
⌈>	**Sc**	**45**		ug/L			443281	435790	1	Standard
|	**Cr**	**52**	**-0.005**	ug/L	0.004	87	7163	6989	2	Standard
⌊	**Cr**	**53**	**-0.046**	ug/L	0.015	31	487	416	5	Standard
⌈>	**Ge**	**72**		ug/L			28284	28183	2	KED
|	**Cu**	**63**	**0.001**	ug/L	0.002	135	33	37	17	KED
|	**Cu**	**65**	**0.001**	ug/L	0.005	440	11	13	65	KED
|	**Zn**	**66**	**-0.005**	ug/L	0.007	128	33	31	12	KED
|	**Zn**	**67**	**0.066**	ug/L	0.087	133	6	11	60	KED
⌊	**As**	**75**	**0.006**	ug/L	0.008	120	2	3	45	KED
	Y	**89**		ug/L			34497	34563	2	Standard
	Kr	**83**		ug/L			33	38	18	Standard
⌈>	**In-1**	**115**		ug/L			5536	5562	2	KED
|	**Cd**	**111**	**-0.006**	ug/L	0.008	121	4	3	45	KED
⌊	**Cd**	**114**	**-0.010**	ug/L	0.004	38	6	1	105	KED
⌈>	**In**	**115**		ug/L			370942	361618	3	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.001	57	18	34	28	Standard
⌈>	**Tb**	**159**		ug/L			161944	156559	2	Standard
⌊	**Pb**	**208**	**-0.000**	ug/L	0.000	322	380	358	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0537-02
Sample Dil Factor: 2
Comments:
Sample Date/Time: Friday, May 12, 2023 07:31:44
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	32368	2	Standard
⌈>	**Sc**	**45**		ug/L			443281	546623	2	Standard
|	**Cr**	**52**	**0.360**	ug/L	0.012	3	7163	14164	2	Standard
⌊	**Cr**	**53**	**0.388**	ug/L	0.008	2	487	1265	1	Standard
⌈>	**Ge**	**72**		ug/L			28284	26609	2	KED
|	**Cu**	**63**	**0.390**	ug/L	0.026	6	33	1410	7	KED
|	**Cu**	**65**	**0.375**	ug/L	0.008	2	11	683	1	KED
|	**Zn**	**66**	**4.759**	ug/L	0.218	4	33	2121	2	KED
|	**Zn**	**67**	**5.219**	ug/L	0.327	6	6	379	5	KED
⌊	**As**	**75**	**0.789**	ug/L	0.033	4	2	171	4	KED
	Y	**89**		ug/L			34497	42005	1	Standard
	Kr	**83**		ug/L			33	32	21	Standard
⌈>	**In-1**	**115**		ug/L			5536	5208	2	KED
|	**Cd**	**111**	**0.033**	ug/L	0.036	106	4	10	63	KED
⌊	**Cd**	**114**	**0.041**	ug/L	0.052	126	6	26	94	KED
⌈>	**In**	**115**		ug/L			370942	353505	0	Standard
⌊	**Ag**	**107**	**0.005**	ug/L	0.001	15	18	74	12	Standard
⌈>	**Tb**	**159**		ug/L			161944	154792	1	Standard
⌊	**Pb**	**208**	**0.225**	ug/L	0.004	1	380	17208	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0537-03
Sample Dil Factor: 2
Comments:
Sample Date/Time: Friday, May 12, 2023 07:36:05
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	34681	2	Standard
⌈>	**Sc**	**45**		ug/L			443281	547793	2	Standard
|	**Cr**	**52**	**0.346**	ug/L	0.018	5	7163	13991	1	Standard
⌊	**Cr**	**53**	**0.376**	ug/L	0.020	5	487	1246	2	Standard
⌈>	**Ge**	**72**		ug/L			28284	26586	0	KED
|	**Cu**	**63**	**0.085**	ug/L	0.008	9	33	332	7	KED
|	**Cu**	**65**	**0.093**	ug/L	0.008	8	11	177	7	KED
|	**Zn**	**66**	**0.616**	ug/L	0.002	0	33	302	0	KED
|	**Zn**	**67**	**0.972**	ug/L	0.185	19	6	75	17	KED
⌊	**As**	**75**	**40.903**	ug/L	0.639	1	2	8755	0	KED
	Y	**89**		ug/L			34497	56833	3	Standard
	Kr	**83**		ug/L			33	43	31	Standard
⌈>	**In-1**	**115**		ug/L			5536	5061	1	KED
|	**Cd**	**111**	**0.023**	ug/L	0.047	204	4	8	103	KED
⌊	**Cd**	**114**	**0.016**	ug/L	0.038	236	6	13	128	KED
⌈>	**In**	**115**		ug/L			370942	354300	2	Standard
⌊	**Ag**	**107**	**0.006**	ug/L	0.003	61	18	81	49	Standard
⌈>	**Tb**	**159**		ug/L			161944	154731	1	Standard
⌊	**Pb**	**208**	**0.019**	ug/L	0.004	22	380	1782	16	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0537-04
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 07:40:20
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			23953	38975	5	Standard
> Sc	45		ug/L			443281	600053	3	Standard
Cr	52	0.158	ug/L	0.011	7	7163	12262	2	Standard
Cr	53	0.223	ug/L	0.010	4	487	1079	3	Standard
> Ge	72		ug/L			28284	25951	1	KED
Cu	63	0.081	ug/L	0.011	13	33	309	12	KED
Cu	65	0.076	ug/L	0.015	19	11	143	19	KED
Zn	66	0.845	ug/L	0.080	9	33	393	9	KED
Zn	67	1.434	ug/L	0.338	23	6	106	22	KED
As	75	1.392	ug/L	0.082	5	2	293	6	KED
Y	89		ug/L			34497	41556	1	Standard
Kr	83		ug/L			33	31	27	Standard
> In-1	115		ug/L			5536	5022	3	KED
Cd	111	-0.005	ug/L	0.006	137	4	3	34	KED
Cd	114	-0.007	ug/L	0.006	80	6	2	94	KED
> In	115		ug/L			370942	343665	0	Standard
Ag	107	0.001	ug/L	0.000	58	18	22	14	Standard
> Tb	159		ug/L			161944	152798	1	Standard
Pb	208	0.005	ug/L	0.000	4	380	755	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0494-01
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 07:45:06
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	32947	4	Standard
⌈>	**Sc**	**45**		ug/L			443281	523130	1	Standard
|	**Cr**	**52**	**3.049**	ug/L	0.019	0	7163	51723	0	Standard
⌊	**Cr**	**53**	**2.997**	ug/L	0.101	3	487	5480	1	Standard
⌈>	**Ge**	**72**		ug/L			28284	26198	1	KED
|	**Cu**	**63**	**0.207**	ug/L	0.013	6	33	751	6	KED
|	**Cu**	**65**	**0.197**	ug/L	0.016	8	11	359	6	KED
|	**Zn**	**66**	**0.798**	ug/L	0.056	6	33	376	6	KED
|	**Zn**	**67**	**1.112**	ug/L	0.183	16	6	84	16	KED
⌊	**As**	**75**	**1.668**	ug/L	0.095	5	2	353	6	KED
	Y	**89**		ug/L			34497	35978	1	Standard
	Kr	**83**		ug/L			33	37	20	Standard
⌈>	**In-1**	**115**		ug/L			5536	5284	2	KED
|	**Cd**	**111**	**-0.007**	ug/L	0.009	119	4	2	57	KED
⌊	**Cd**	**114**	**-0.010**	ug/L	0.004	37	6	1	126	KED
⌈>	**In**	**115**		ug/L			370942	365163	1	Standard
⌊	**Ag**	**107**	**0.000**	ug/L	0.000	264	18	20	28	Standard
⌈>	**Tb**	**159**		ug/L			161944	158726	1	Standard
⌊	**Pb**	**208**	**0.012**	ug/L	0.001	7	380	1262	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0494-02
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 07:49:27
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	34191	0	Standard
⌈>	**Sc**	**45**		ug/L			443281	516002	2	Standard
|	**Cr**	**52**	**-0.006**	ug/L	0.011	179	7163	8248	1	Standard
⌊	**Cr**	**53**	**0.032**	ug/L	0.005	15	487	619	2	Standard
⌈>	**Ge**	**72**		ug/L			28284	25749	0	KED
|	**Cu**	**63**	**0.378**	ug/L	0.009	2	33	1324	2	KED
|	**Cu**	**65**	**0.373**	ug/L	0.016	4	11	659	4	KED
|	**Zn**	**66**	**1.026**	ug/L	0.143	13	33	467	13	KED
|	**Zn**	**67**	**1.694**	ug/L	0.044	2	6	123	2	KED
⌊	**As**	**75**	**1.550**	ug/L	0.094	6	2	323	5	KED
	Y	**89**		ug/L			34497	36548	0	Standard
	Kr	**83**		ug/L			33	38	5	Standard
⌈>	**In-1**	**115**		ug/L			5536	4911	2	KED
|	**Cd**	**111**	**0.028**	ug/L	0.014	50	4	8	26	KED
⌊	**Cd**	**114**	**0.011**	ug/L	0.005	42	6	10	17	KED
⌈>	**In**	**115**		ug/L			370942	370348	2	Standard
⌊	**Ag**	**107**	**0.000**	ug/L	0.001	579	18	19	39	Standard
⌈>	**Tb**	**159**		ug/L			161944	160625	1	Standard
⌊	**Pb**	**208**	**0.026**	ug/L	0.003	9	380	2387	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0494-03
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 07:53:49
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			23953	35272	2	Standard
> Sc	45		ug/L			443281	555008	1	Standard
Cr	52	1.088	ug/L	0.016	1	7163	25353	2	Standard
Cr	53	1.102	ug/L	0.017	1	487	2524	0	Standard
> Ge	72		ug/L			28284	26216	2	KED
Cu	63	0.672	ug/L	0.029	4	33	2370	3	KED
Cu	65	0.645	ug/L	0.018	2	11	1151	2	KED
Zn	66	1.342	ug/L	0.058	4	33	612	4	KED
Zn	67	2.072	ug/L	0.217	10	6	152	12	KED
As	75	1.109	ug/L	0.036	3	2	236	1	KED
Y	89		ug/L			34497	35884	0	Standard
Kr	83		ug/L			33	29	39	Standard
> In-1	115		ug/L			5536	5217	0	KED
Cd	111	0.001	ug/L	0.015	1144	4	4	65	KED
Cd	114	-0.005	ug/L	0.006	113	6	4	72	KED
> In	115		ug/L			370942	366141	1	Standard
Ag	107	0.008	ug/L	0.001	9	18	116	8	Standard
> Tb	159		ug/L			161944	158946	1	Standard
Pb	208	0.018	ug/L	0.001	3	380	1760	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0494-04
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 07:58:10
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	36798	3	Standard
⌈>	**Sc**	**45**		ug/L			443281	544050	2	Standard
|	**Cr**	**52**	**-0.054**	ug/L	0.011	20	7163	7999	2	Standard
⌊	**Cr**	**53**	**-0.025**	ug/L	0.011	43	487	556	6	Standard
⌈>	**Ge**	**72**		ug/L			28284	26708	0	KED
|	**Cu**	**63**	**0.838**	ug/L	0.016	1	33	3003	0	KED
|	**Cu**	**65**	**0.846**	ug/L	0.014	1	11	1535	1	KED
|	**Zn**	**66**	**0.633**	ug/L	0.066	10	33	311	10	KED
|	**Zn**	**67**	**1.047**	ug/L	0.035	3	6	81	2	KED
⌊	**As**	**75**	**1.910**	ug/L	0.048	2	2	412	1	KED
	Y	**89**		ug/L			34497	36725	2	Standard
	Kr	**83**		ug/L			33	29	3	Standard
⌈>	**In-1**	**115**		ug/L			5536	5148	2	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.006	341	4	3	25	KED
⌊	**Cd**	**114**	**-0.004**	ug/L	0.004	117	6	4	46	KED
⌈>	**In**	**115**		ug/L			370942	365824	4	Standard
⌊	**Ag**	**107**	**0.000**	ug/L	0.001	338	18	22	71	Standard
⌈>	**Tb**	**159**		ug/L			161944	160908	1	Standard
⌊	**Pb**	**208**	**0.007**	ug/L	0.001	14	380	956	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0494-05
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 08:02:31
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	33011	2	Standard
⌈>	**Sc**	**45**		ug/L			443281	509288	2	Standard
|	**Cr**	**52**	**-0.004**	ug/L	0.002	69	7163	8181	2	Standard
⌊	**Cr**	**53**	**-0.019**	ug/L	0.020	105	487	530	8	Standard
⌈>	**Ge**	**72**		ug/L			28284	26402	2	KED
|	**Cu**	**63**	**0.237**	ug/L	0.027	11	33	859	8	KED
|	**Cu**	**65**	**0.242**	ug/L	0.021	8	11	441	10	KED
|	**Zn**	**66**	**1.050**	ug/L	0.024	2	33	488	0	KED
|	**Zn**	**67**	**1.334**	ug/L	0.162	12	6	100	14	KED
⌊	**As**	**75**	**4.736**	ug/L	0.192	4	2	1007	1	KED
	Y	**89**		ug/L			34497	35818	2	Standard
	Kr	**83**		ug/L			33	32	10	Standard
⌈>	**In-1**	**115**		ug/L			5536	5114	2	KED
|	**Cd**	**111**	**-0.003**	ug/L	0.006	162	4	3	31	KED
⌊	**Cd**	**114**	**-0.006**	ug/L	0.000	1	6	3	1	KED
⌈>	**In**	**115**		ug/L			370942	371382	2	Standard
⌊	**Ag**	**107**	**-0.000**	ug/L	0.001	185	18	14	52	Standard
⌈>	**Tb**	**159**		ug/L			161944	160844	0	Standard
⌊	**Pb**	**208**	**0.022**	ug/L	0.000	0	380	2106	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0494-06
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 08:06:53
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	33260	5	Standard
⌈>	**Sc**	**45**		ug/L			443281	520994	3	Standard
|	**Cr**	**52**	**0.001**	ug/L	0.021	4047	7163	8419	0	Standard
⌊	**Cr**	**53**	**-0.004**	ug/L	0.018	446	487	566	7	Standard
⌈>	**Ge**	**72**		ug/L			28284	25960	2	KED
|	**Cu**	**63**	**0.316**	ug/L	0.022	7	33	1118	5	KED
|	**Cu**	**65**	**0.311**	ug/L	0.013	4	11	554	4	KED
|	**Zn**	**66**	**0.932**	ug/L	0.103	11	33	430	10	KED
|	**Zn**	**67**	**1.015**	ug/L	0.185	18	6	76	17	KED
⌊	**As**	**75**	**12.863**	ug/L	0.161	1	2	2690	1	KED
	Y	**89**		ug/L			34497	35627	1	Standard
	Kr	**83**		ug/L			33	32	15	Standard
⌈>	**In-1**	**115**		ug/L			5536	5174	1	KED
|	**Cd**	**111**	**-0.007**	ug/L	0.005	78	4	2	33	KED
⌊	**Cd**	**114**	**0.000**	ug/L	0.012	3000	6	6	86	KED
⌈>	**In**	**115**		ug/L			370942	378984	3	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.001	67	18	36	33	Standard
⌈>	**Tb**	**159**		ug/L			161944	157933	1	Standard
⌊	**Pb**	**208**	**0.008**	ug/L	0.000	1	380	960	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLS
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 08:11:15
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	24312	3	Standard
⌈>	**Sc**	**45**		ug/L			443281	423709	1	Standard
|	**Cr**	**52**	**-0.017**	ug/L	0.018	103	7163	6650	4	Standard
⌊	**Cr**	**53**	**-0.157**	ug/L	0.017	11	487	257	9	Standard
⌈>	**Ge**	**72**		ug/L			28284	26243	0	KED
|	**Cu**	**63**	**-0.002**	ug/L	0.004	200	33	24	55	KED
|	**Cu**	**65**	**0.003**	ug/L	0.001	43	11	15	12	KED
|	**Zn**	**66**	**-0.031**	ug/L	0.003	8	33	17	6	KED
|	**Zn**	**67**	**-0.030**	ug/L	0.071	236	6	3	132	KED
⌊	**As**	**75**	**0.001**	ug/L	0.002	271	2	2	20	KED
	Y	**89**		ug/L			34497	34766	2	Standard
	Kr	**83**		ug/L			33	34	8	Standard
⌈>	**In-1**	**115**		ug/L			5536	5110	2	KED
|	**Cd**	**111**	**-0.007**	ug/L	0.010	146	4	2	66	KED
⌊	**Cd**	**114**	**-0.009**	ug/L	0.006	72	6	2	125	KED
⌈>	**In**	**115**		ug/L			370942	363346	3	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.000	31	18	7	43	Standard
⌈>	**Tb**	**159**		ug/L			161944	156921	0	Standard
⌊	**Pb**	**208**	**-0.003**	ug/L	0.000	5	380	127	11	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVP
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 08:15:37
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	23131	6	Standard
⌈>	**Sc**	**45**		ug/L			443281	429452	4	Standard
|	**Cr**	**52**	**43.137**	ug/L	1.283	2	7163	509091	2	Standard
⌊	**Cr**	**53**	**42.532**	ug/L	1.016	2	487	57617	4	Standard
⌈>	**Ge**	**72**		ug/L			28284	26845	1	KED
|	**Cu**	**63**	**48.586**	ug/L	1.204	2	33	173318	0	KED
|	**Cu**	**65**	**47.759**	ug/L	1.161	2	11	86522	1	KED
|	**Zn**	**66**	**48.700**	ug/L	0.829	1	33	21613	1	KED
|	**Zn**	**67**	**49.974**	ug/L	1.175	2	6	3617	2	KED
⌊	**As**	**75**	**48.187**	ug/L	0.497	1	2	10414	0	KED
	Y	**89**		ug/L			34497	35680	2	Standard
	Kr	**83**		ug/L			33	40	7	Standard
⌈>	**In-1**	**115**		ug/L			5536	5483	1	KED
|	**Cd**	**111**	**47.087**	ug/L	0.889	1	4	9340	0	KED
⌊	**Cd**	**114**	**47.831**	ug/L	1.184	2	6	24201	0	KED
⌈>	**In**	**115**		ug/L			370942	373329	1	Standard
⌊	**Ag**	**107**	**48.273**	ug/L	0.181	0	18	586801	1	Standard
⌈>	**Tb**	**159**		ug/L			161944	157225	4	Standard
⌊	**Pb**	**208**	**55.524**	ug/L	1.115	2	380	4214059	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBP
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 08:22:42
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051123_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	23153	6	Standard
⌈>	**Sc**	**45**		ug/L			443281	426749	1	Standard
|	**Cr**	**52**	**-0.033**	ug/L	0.016	49	7163	6515	2	Standard
⌊	**Cr**	**53**	**-0.183**	ug/L	0.014	7	487	225	9	Standard
⌈>	**Ge**	**72**		ug/L			28284	27054	1	KED
|	**Cu**	**63**	**0.001**	ug/L	0.001	206	33	33	13	KED
|	**Cu**	**65**	**0.001**	ug/L	0.001	59	11	12	8	KED
|	**Zn**	**66**	**-0.029**	ug/L	0.016	53	33	19	36	KED
|	**Zn**	**67**	**-0.014**	ug/L	0.031	226	6	5	43	KED
⌊	**As**	**75**	**0.011**	ug/L	0.006	51	2	4	26	KED
	Y	**89**		ug/L			34497	35176	3	Standard
	Kr	**83**		ug/L			33	33	28	Standard
⌈>	**In-1**	**115**		ug/L			5536	5166	3	KED
|	**Cd**	**111**	**-0.007**	ug/L	0.006	81	4	2	33	KED
⌊	**Cd**	**114**	**-0.008**	ug/L	0.006	72	6	2	122	KED
⌈>	**In**	**115**		ug/L			370942	374701	4	Standard
⌊	**Ag**	**107**	**0.000**	ug/L	0.001	150	18	24	35	Standard
⌈>	**Tb**	**159**		ug/L			161944	156776	3	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.000	60	380	318	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0494-07
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 08:27:32
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_as only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	30709	1	Standard
⌈>	**Ge**	**72**		ug/L			28284	26538	1	KED
⌊	**As**	**75**	**12.441**	ug/L	0.226	1	2	2660	2	KED
	Y	**89**		ug/L			34497	36716	2	Standard
	Kr	**83**		ug/L			33	37	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0494-08
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Friday, May 12, 2023 08:30:59
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_as only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	32393	0	Standard
⌈>	**Ge**	**72**		ug/L			28284	25720	1	KED
⌊	**As**	**75**	**1.257**	ug/L	0.241	19	2	262	17	KED
	Y	**89**		ug/L			34497	35640	3	Standard
	Kr	**83**		ug/L			33	45	21	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0494-09
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 08:34:26
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_as only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	38746	1	Standard
⌈>	**Ge**	**72**		ug/L			28284	25415	1	KED
⌊	**As**	**75**	**1.516**	ug/L	0.073	4	2	312	4	KED
	Y	**89**		ug/L			34497	36620	0	Standard
	Kr	**83**		ug/L			33	33	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0494-10
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 08:37:48
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_as only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	57220	3	Standard
⌈>	**Ge**	**72**		ug/L			28284	25650	1	KED
⌊	**As**	**75**	**3.368**	ug/L	0.033	0	2	697	0	KED
	Y	**89**		ug/L			34497	44371	2	Standard
	Kr	**83**		ug/L			33	36	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0494-11
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 08:41:40
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_as only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	39588	3	Standard
⌈>	**Ge**	**72**		ug/L			28284	26578	1	KED
⌊	**As**	**75**	**1.334**	ug/L	0.072	5	2	287	5	KED
	Y	**89**		ug/L			34497	37588	2	Standard
	Kr	**83**		ug/L			33	37	17	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0578-02
Sample Dil Factor: 5
Comments:
Sample Date/Time: Friday, May 12, 2023 08:46:32
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_as only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	25866	1	Standard
⌈>	**Ge**	**72**		ug/L			28284	25532	1	KED
⌊	**As**	**75**	**2.267**	ug/L	0.082	3	2	468	4	KED
	Y	**89**		ug/L			34497	41271	3	Standard
	Kr	**83**		ug/L			33	34	20	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0134-DUP1
Sample Dil Factor: 5
Comments:
Sample Date/Time: Friday, May 12, 2023 08:50:00
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_as only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	25448	0	Standard
⌈>	**Ge**	**72**		ug/L			28284	25336	0	KED
⌊	**As**	**75**	**2.271**	ug/L	0.019	0	2	465	1	KED
	Y	**89**		ug/L			34497	40019	5	Standard
	Kr	**83**		ug/L			33	24	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0134-MS1
Sample Dil Factor: 5
Comments:
Sample Date/Time: Friday, May 12, 2023 08:53:22
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_as only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	**13**		ug/L			23953	25656	2	Standard
Ge	**72**		ug/L			28284	25138	0	KED
As	**75**	**7.526**	ug/L	0.068	0	2	1525	0	KED
Y	**89**		ug/L			34497	40825	2	Standard
Kr	**83**		ug/L			33	40	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0134-MSD1
Sample Dil Factor: 5
Comments:

DEL

Sample Date/Time: Friday, May 12, 2023 08:57:14
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_as only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	25165	4	Standard
⌈>	**Ge**	**72**		ug/L			28284	22831	11	KED
⌊	**As**	**75**	**8.315**	ug/L	0.579	6	2	1523	6	KED
	Y	**89**		ug/L			34497	41090	2	Standard
	Kr	**83**		ug/L			33	44	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLT
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 09:00:43
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_as only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	21044	3	Standard
⌈>	**Ge**	**72**		ug/L			28284	25195	1	KED
⌊	**As**	**75**	**0.005**	ug/L	0.005	97	2	3	31	KED
	Y	**89**		ug/L			34497	36387	4	Standard
	Kr	**83**		ug/L			33	32	21	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVQ
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 09:04:11
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_as only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	19365	3	Standard
⌈>	**Ge**	**72**		ug/L			28284	25866	2	KED
⌊	**As**	**75**	**48.718**	ug/L	1.079	2	2	10142	0	KED
	Y	**89**		ug/L			34497	35732	3	Standard
	Kr	**83**		ug/L			33	40	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBQ
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 09:10:23
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_as only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	19521	6	Standard
⌈>	**Ge**	**72**		ug/L			28284	26236	1	KED
⌊	**As**	**75**	**0.004**	ug/L	0.007	188	2	3	50	KED
	Y	**89**		ug/L			34497	36358	4	Standard
	Kr	**83**		ug/L			33	42	13	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0588-01
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 09:13:52
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_as only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	32027	1	Standard
⌈>	**Ge**	**72**		ug/L			28284	26007	1	KED
⌊	**As**	**75**	**0.890**	ug/L	0.049	5	2	188	4	KED
	Y	**89**		ug/L			34497	40247	1	Standard
	Kr	**83**		ug/L			33	39	27	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0588-03
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 09:17:19
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_as only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	30397	2	Standard
⌈>	**Ge**	**72**		ug/L			28284	25458	1	KED
⌊	**As**	**75**	**0.855**	ug/L	0.006	0	2	177	2	KED
	Y	**89**		ug/L			34497	38663	1	Standard
	Kr	**83**		ug/L			33	40	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0588-05
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 09:20:47
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_as only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	31369	1	Standard
⌈>	**Ge**	**72**		ug/L			28284	25256	1	KED
⌊	**As**	**75**	**0.674**	ug/L	0.013	1	2	139	3	KED
	Y	**89**		ug/L			34497	37846	4	Standard
	Kr	**83**		ug/L			33	38	31	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0588-07
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 09:24:15
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_as only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	31068	2	Standard
⌈>	**Ge**	**72**		ug/L			28284	25354	1	KED
⌊	**As**	**75**	**0.819**	ug/L	0.024	2	2	169	3	KED
	Y	**89**		ug/L			34497	38519	3	Standard
	Kr	**83**		ug/L			33	41	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0588-09
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 09:27:43
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_as only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	28545	3	Standard
>	**Ge**	**72**		ug/L			28284	25863	0	KED
	As	**75**	**1.364**	ug/L	0.085	6	2	286	5	KED
	Y	**89**		ug/L			34497	41558	3	Standard
	Kr	**83**		ug/L			33	36	13	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0588-11
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 09:31:10
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_as only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	30064	0	Standard
⌈>	**Ge**	**72**		ug/L			28284	25241	1	KED
⌊	**As**	**75**	**0.975**	ug/L	0.091	9	2	200	8	KED
	Y	**89**		ug/L			34497	41326	4	Standard
	Kr	**83**		ug/L			33	38	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0588-13
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 09:34:38
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_as only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	34038	1	Standard
⌈>	**Ge**	**72**		ug/L			28284	25584	0	KED
⌊	**As**	**75**	**0.431**	ug/L	0.040	9	2	90	8	KED
	Y	**89**		ug/L			34497	37964	2	Standard
	Kr	**83**		ug/L			33	34	29	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0588-15
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 09:38:00
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_as only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	31176	2	Standard
⌈>	**Ge**	**72**		ug/L			28284	25211	1	KED
⌊	**As**	**75**	**0.971**	ug/L	0.064	6	2	199	5	KED
	Y	**89**		ug/L			34497	38058	1	Standard
	Kr	**83**		ug/L			33	44	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0587-03
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 09:41:51
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_as only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	29462	1	Standard
[>	**Ge**	**72**		ug/L			28284	26481	1	KED
[	**As**	**75**	**-0.001**	ug/L	0.002	158	2	1	25	KED
	Y	**89**		ug/L			34497	37168	0	Standard
	Kr	**83**		ug/L			33	33	43	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLU
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 09:45:20
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_as only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	21654	1	Standard
⌈>	**Ge**	**72**		ug/L			28284	25096	1	KED
⌊	**As**	**75**	**0.007**	ug/L	0.007	97	2	3	39	KED
	Y	**89**		ug/L			34497	35617	3	Standard
	Kr	**83**		ug/L			33	26	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVR
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 09:48:48
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_as only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	20136	4	Standard
⌈>	**Ge**	**72**		ug/L			28284	25943	0	KED
⌊	**As**	**75**	**48.782**	ug/L	0.808	1	2	10190	1	KED
	Y	**89**		ug/L			34497	35774	1	Standard
	Kr	**83**		ug/L			33	40	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBR
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 09:55:00
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_as only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	20341	2	Standard
⌈>	**Ge**	**72**		ug/L			28284	26117	1	KED
⌊	**As**	**75**	**0.002**	ug/L	0.009	576	2	2	75	KED
	Y	**89**		ug/L			34497	36037	3	Standard
	Kr	**83**		ug/L			33	38	15	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0587-02
Sample Dil Factor: 2
Comments:
Sample Date/Time: Friday, May 12, 2023 09:58:29
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_as only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	25634	2	Standard
⌈>	**Ge**	**72**		ug/L			28284	25170	1	KED
⌊	**As**	**75**	**1.899**	ug/L	0.067	3	2	386	1	KED
	Y	**89**		ug/L			34497	47569	1	Standard
	Kr	**83**		ug/L			33	41	20	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0587-04
Sample Dil Factor: 5
Comments:
Sample Date/Time: Friday, May 12, 2023 10:01:57
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_as only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	23088	1	Standard
⌈>	**Ge**	**72**		ug/L			28284	25083	0	KED
⌊	**As**	**75**	**2.690**	ug/L	0.083	3	2	545	3	KED
	Y	**89**		ug/L			34497	39491	2	Standard
	Kr	**83**		ug/L			33	38	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0587-05
Sample Dil Factor: 5
Comments:
Sample Date/Time: Friday, May 12, 2023 10:05:19
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_as only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	24086	2	Standard
⌈>	**Ge**	**72**		ug/L			28284	25297	0	KED
⌊	**As**	**75**	**2.679**	ug/L	0.061	2	2	547	2	KED
	Y	**89**		ug/L			34497	39866	2	Standard
	Kr	**83**		ug/L			33	38	43	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0578-07
Sample Dil Factor: 5
Comments:
Sample Date/Time: Friday, May 12, 2023 10:09:11
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_as only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	28092	1	Standard
⌈>	**Ge**	**72**		ug/L			28284	24265	2	KED
⌊	**As**	**75**	**3.647**	ug/L	0.045	1	2	714	2	KED
	Y	**89**		ug/L			34497	36517	3	Standard
	Kr	**83**		ug/L			33	48	19	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0578-08
Sample Dil Factor: 5
Comments:
Sample Date/Time: Friday, May 12, 2023 10:12:39
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_as only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	24129	1	Standard
⌈>	**Ge**	**72**		ug/L			28284	24842	1	KED
⌊	**As**	**75**	**1.946**	ug/L	0.065	3	2	391	2	KED
	Y	**89**		ug/L			34497	39994	1	Standard
	Kr	**83**		ug/L			33	40	19	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0578-04
Sample Dil Factor: 2
Comments:
Sample Date/Time: Friday, May 12, 2023 10:16:01
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_as only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	27316	1	Standard
⌈>	**Ge**	**72**		ug/L			28284	25745	2	KED
⌊	**As**	**75**	**0.925**	ug/L	0.064	6	2	193	4	KED
	Y	**89**		ug/L			34497	51126	1	Standard
	Kr	**83**		ug/L			33	34	24	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0578-06
Sample Dil Factor: 2
Comments:
Sample Date/Time: Friday, May 12, 2023 10:19:28
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_as only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	26836	1	Standard
⌈>	**Ge**	**72**		ug/L			28284	24007	0	KED
⌊	**As**	**75**	**3.754**	ug/L	0.071	1	2	727	2	KED
	Y	**89**		ug/L			34497	40963	1	Standard
	Kr	**83**		ug/L			33	40	28	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0578-03
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 10:23:20
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_as only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	29306	2	Standard
⌈>	**Ge**	**72**		ug/L			28284	25776	3	KED
⌊	**As**	**75**	**0.007**	ug/L	0.005	71	2	3	27	KED
	Y	**89**		ug/L			34497	36300	2	Standard
	Kr	**83**		ug/L			33	45	17	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0578-05
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 10:26:48
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_as only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	31168	1	Standard
⌈>	**Ge**	**72**		ug/L			28284	23049	3	KED
⌊	**As**	**75**	**12.233**	ug/L	0.459	3	2	2270	1	KED
	Y	**89**		ug/L			34497	42422	0	Standard
	Kr	**83**		ug/L			33	52	20	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLV
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 10:30:17
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_as only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	22595	1	Standard
⌈>	**Ge**	**72**		ug/L			28284	25718	0	KED
⌊	**As**	**75**	**-0.000**	ug/L	0.001	291	2	2	13	KED
	Y	**89**		ug/L			34497	35195	5	Standard
	Kr	**83**		ug/L			33	40	18	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVS
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 10:33:45
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_as only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	20551	1	Standard
⌈>	**Ge**	**72**		ug/L			28284	24988	0	KED
⌊	**As**	**75**	**50.067**	ug/L	1.149	2	2	10073	2	KED
	Y	**89**		ug/L			34497	35581	2	Standard
	Kr	**83**		ug/L			33	49	21	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBS
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 10:39:57
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_as only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	20489	2	Standard
⌈>	**Ge**	**72**		ug/L			28284	25090	0	KED
⌊	**As**	**75**	**0.002**	ug/L	0.006	279	2	2	47	KED
	Y	**89**		ug/L			34497	35714	2	Standard
	Kr	**83**		ug/L			33	38	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 10:43:25
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_as only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	25632	2	Standard
⌈>	**Ge**	**72**		ug/L			28284	26454	1	KED
⌊	**As**	**75**	**0.006**	ug/L	0.010	169	2	3	61	KED
	Y	**89**		ug/L			34497	41214	3	Standard
	Kr	**83**		ug/L			33	38	24	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 10:46:53
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_as only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	24859	4	Standard
⌈>	**Ge**	**72**		ug/L			28284	26414	1	KED
⌊	**As**	**75**	**0.000**	ug/L	0.005	9977	2	2	49	KED
	Y	**89**		ug/L			34497	38257	2	Standard
	Kr	**83**		ug/L			33	41	25	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 10:50:22
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_as only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	25074	4	Standard
⌈>	**Ge**	**72**		ug/L			28284	25856	5	KED
⌊	**As**	**75**	**0.004**	ug/L	0.009	256	2	3	71	KED
	Y	**89**		ug/L			34497	40670	1	Standard
	Kr	**83**		ug/L			33	42	28	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 10:53:49
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_as only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	21544	0	Standard
⌈>	**Ge**	**72**		ug/L			28284	24979	2	KED
⌊	**As**	**75**	**-0.004**	ug/L	0.001	29	2	1	21	KED
	Y	**89**		ug/L			34497	33632	2	Standard
	Kr	**83**		ug/L			33	40	12	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 10:57:18
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_as only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	21498	3	Standard
⌈>	**Ge**	**72**		ug/L			28284	24196	2	KED
⌊	**As**	**75**	**0.000**	ug/L	0.004	2080	2	2	35	KED
	Y	**89**		ug/L			34497	33753	1	Standard
	Kr	**83**		ug/L			33	36	26	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI
Sample Dil Factor:
Comments:
Sample Date/Time: Friday, May 12, 2023 11:00:46
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_dailymethod_ked_uct_as only.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23953	21398	1	Standard
⌈>	**Ge**	**72**		ug/L			28284	25308	0	KED
⌊	**As**	**75**	**0.000**	ug/L	0.010	2112	2	2	89	KED
	Y	**89**		ug/L			34497	34273	1	Standard
	Kr	**83**		ug/L			33	34	14	Standard

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00007
Control Limt: +/- 10.00%
Sequence: SLE0017

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLE0017-ICV1	Chromium-52	50.000	50.7	101	ug/L	EPA 6020B
	Chromium-53	50.000	50.0	99.9	ug/L	EPA 6020B
	Lead-208	50.000	51.2	102	ug/L	EPA 6020B
	Silver-107	50.000	52.3	105	ug/L	EPA 6020B
SLE0017-CCV1	Chromium-52	50.000	49.6	99.3	ug/L	EPA 6020B
	Chromium-53	50.000	48.9	97.8	ug/L	EPA 6020B
	Lead-208	50.000	50.7	101	ug/L	EPA 6020B
	Silver-107	50.000	50.9	102	ug/L	EPA 6020B
SLE0017-CCV2	Chromium-52	50.000	49.2	98.5	ug/L	EPA 6020B
	Chromium-53	50.000	49.1	98.2	ug/L	EPA 6020B
	Lead-208	50.000	51.4	103	ug/L	EPA 6020B
	Silver-107	50.000	50.6	101	ug/L	EPA 6020B
SLE0017-CCV3	Chromium-52	50.000	49.0	98.0	ug/L	EPA 6020B
	Chromium-53	50.000	48.9	97.7	ug/L	EPA 6020B
	Lead-208	50.000	52.2	104	ug/L	EPA 6020B
	Silver-107	50.000	49.6	99.2	ug/L	EPA 6020B
SLE0017-CCV4	Chromium-52	50.000	47.9	95.9	ug/L	EPA 6020B
	Chromium-53	50.000	47.8	95.6	ug/L	EPA 6020B
	Lead-208	50.000	54.1	108	ug/L	EPA 6020B
	Silver-107	50.000	49.2	98.4	ug/L	EPA 6020B
SLE0017-CCV5	Chromium-52	50.000	47.5	95.0	ug/L	EPA 6020B
	Chromium-53	50.000	47.0	93.9	ug/L	EPA 6020B
	Lead-208	50.000	54.1	108	ug/L	EPA 6020B
	Silver-107	50.000	50.4	101	ug/L	EPA 6020B
SLE0017-CCV6	Chromium-52	50.000	48.1	96.3	ug/L	EPA 6020B
	Chromium-53	50.000	47.6	95.2	ug/L	EPA 6020B
	Lead-208	50.000	53.5	107	ug/L	EPA 6020B
	Silver-107	50.000	50.4	101	ug/L	EPA 6020B
SLE0017-CCV7	Chromium-52	50.000	47.3	94.6	ug/L	EPA 6020B
	Chromium-53	50.000	47.1	94.2	ug/L	EPA 6020B
	Lead-208	50.000	53.0	106	ug/L	EPA 6020B
	Silver-107	50.000	50.6	101	ug/L	EPA 6020B
SLE0017-CCV8	Chromium-52	50.000	48.1	96.3	ug/L	EPA 6020B
	Chromium-53	50.000	48.0	95.9	ug/L	EPA 6020B

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00007
Control Limt: +/- 10.00%
Sequence: SLE0017

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLE0017-CCV8	Lead-208	50.000	52.3	105	ug/L	EPA 6020B
	Silver-107	50.000	50.3	101	ug/L	EPA 6020B
SLE0017-CCV9	Chromium-52	50.000	47.6	95.2	ug/L	EPA 6020B
	Chromium-53	50.000	47.7	95.4	ug/L	EPA 6020B
	Lead-208	50.000	52.5	105	ug/L	EPA 6020B
	Silver-107	50.000	51.7	103	ug/L	EPA 6020B
SLE0017-CCVA	Chromium-52	50.000	47.9	95.9	ug/L	EPA 6020B
	Chromium-53	50.000	47.4	94.8	ug/L	EPA 6020B
	Lead-208	50.000	53.5	107	ug/L	EPA 6020B
	Silver-107	50.000	51.0	102	ug/L	EPA 6020B
SLE0017-CCVB	Chromium-52	50.000	48.3	96.6	ug/L	EPA 6020B
	Chromium-53	50.000	47.8	95.7	ug/L	EPA 6020B
	Lead-208	50.000	52.8	106	ug/L	EPA 6020B
	Silver-107	50.000	51.0	102	ug/L	EPA 6020B
SLE0017-CCVC	Chromium-52	50.000	47.0	93.9	ug/L	EPA 6020B
	Chromium-53	50.000	47.0	94.0	ug/L	EPA 6020B
	Lead-208	50.000	54.5	109	ug/L	EPA 6020B
	Silver-107	50.000	50.5	101	ug/L	EPA 6020B
SLE0017-CCVD	Chromium-52	50.000	46.8	93.6	ug/L	EPA 6020B
	Chromium-53	50.000	47.4	94.7	ug/L	EPA 6020B
	Lead-208	50.000	54.8	110	ug/L	EPA 6020B
	Silver-107	50.000	50.0	100	ug/L	EPA 6020B
SLE0017-CCVE	Chromium-52	50.000	47.4	94.8	ug/L	EPA 6020B
	Chromium-53	50.000	48.0	95.9	ug/L	EPA 6020B
	Lead-208	50.000	54.5	109	ug/L	EPA 6020B
	Silver-107	50.000	51.5	103	ug/L	EPA 6020B
SLE0017-CCVF	Chromium-52	50.000	47.1	94.3	ug/L	EPA 6020B
	Chromium-53	50.000	47.1	94.3	ug/L	EPA 6020B
	Lead-208	50.000	54.5	109	ug/L	EPA 6020B
	Silver-107	50.000	50.6	101	ug/L	EPA 6020B
SLE0017-CCVG	Chromium-52	50.000	47.0	94.0	ug/L	EPA 6020B
	Chromium-53	50.000	46.8	93.6	ug/L	EPA 6020B
	Lead-208	50.000	54.1	108	ug/L	EPA 6020B
	Silver-107	50.000	49.9	99.9	ug/L	EPA 6020B

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00007
Control Limt: +/- 10.00%
Sequence: SLE0017

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLE0017-CCVH	Chromium-52	50.000	46.8	93.6	ug/L	EPA 6020B
	Chromium-53	50.000	47.3	94.6	ug/L	EPA 6020B
	Lead-208	50.000	54.6	109	ug/L	EPA 6020B
	Silver-107	50.000	49.8	99.6	ug/L	EPA 6020B
SLE0017-CCVI	Chromium-52	50.000	47.0	94.0	ug/L	EPA 6020B
	Chromium-53	50.000	47.0	94.0	ug/L	EPA 6020B
	Lead-208	50.000	53.8	108	ug/L	EPA 6020B
	Silver-107	50.000	49.8	99.6	ug/L	EPA 6020B
SLE0017-CCVJ	Chromium-52	50.000	47.2	94.5	ug/L	EPA 6020B
	Chromium-53	50.000	47.5	95.0	ug/L	EPA 6020B
	Lead-208	50.000	54.6	109	ug/L	EPA 6020B
	Silver-107	50.000	51.7	103	ug/L	EPA 6020B
SLE0017-CCVK	Chromium-52	50.000	47.7	95.3	ug/L	EPA 6020B
	Chromium-53	50.000	46.9	93.7	ug/L	EPA 6020B
	Lead-208	50.000	54.4	109	ug/L	EPA 6020B
	Silver-107	50.000	50.6	101	ug/L	EPA 6020B
SLE0017-CCVL	Chromium-52	50.000	45.2	90.5	ug/L	EPA 6020B
	Chromium-53	50.000	45.7	91.4	ug/L	EPA 6020B
	Lead-208	50.000	57.5	115	ug/L	EPA 6020B
	Silver-107	50.000	49.9	99.7	ug/L	EPA 6020B

* Values outside of QC limits

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00013
Control Limt: +/- 10.00%
Sequence: SLE0043

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLE0043-ICV1	Chromium-52	50.000	50.6	101	ug/L	EPA 6020B
	Chromium-53	50.000	51.5	103	ug/L	EPA 6020B
	Lead-208	50.000	51.5	103	ug/L	EPA 6020B
	Silver-107	50.000	52.3	105	ug/L	EPA 6020B
SLE0043-CCV1	Chromium-52	50.000	49.1	98.1	ug/L	EPA 6020B
	Chromium-53	50.000	50.0	100	ug/L	EPA 6020B
	Lead-208	50.000	50.5	101	ug/L	EPA 6020B
	Silver-107	50.000	49.9	99.7	ug/L	EPA 6020B
SLE0043-CCV2	Chromium-52	50.000	49.4	98.7	ug/L	EPA 6020B
	Chromium-53	50.000	49.3	98.5	ug/L	EPA 6020B
	Lead-208	50.000	52.1	104	ug/L	EPA 6020B
	Silver-107	50.000	49.3	98.6	ug/L	EPA 6020B
SLE0043-CCV3	Chromium-52	50.000	48.6	97.2	ug/L	EPA 6020B
	Chromium-53	50.000	49.4	98.7	ug/L	EPA 6020B
	Lead-208	50.000	50.7	101	ug/L	EPA 6020B
	Silver-107	50.000	49.1	98.1	ug/L	EPA 6020B
SLE0043-CCV4	Chromium-52	50.000	50.0	100	ug/L	EPA 6020B
	Chromium-53	50.000	50.2	100	ug/L	EPA 6020B
	Lead-208	50.000	52.0	104	ug/L	EPA 6020B
	Silver-107	50.000	50.1	100	ug/L	EPA 6020B
SLE0043-CCV5	Chromium-52	50.000	49.8	99.7	ug/L	EPA 6020B
	Chromium-53	50.000	50.6	101	ug/L	EPA 6020B
	Lead-208	50.000	51.5	103	ug/L	EPA 6020B
	Silver-107	50.000	50.7	101	ug/L	EPA 6020B
SLE0043-CCV6	Chromium-52	50.000	49.6	99.1	ug/L	EPA 6020B
	Chromium-53	50.000	50.3	101	ug/L	EPA 6020B
	Lead-208	50.000	52.7	105	ug/L	EPA 6020B
	Silver-107	50.000	50.7	101	ug/L	EPA 6020B
SLE0043-CCV7	Chromium-52	50.000	50.0	100	ug/L	EPA 6020B
	Chromium-53	50.000	50.6	101	ug/L	EPA 6020B
	Lead-208	50.000	54.2	108	ug/L	EPA 6020B
	Silver-107	50.000	51.5	103	ug/L	EPA 6020B
SLE0043-CCV8	Chromium-52	50.000	49.7	99.3	ug/L	EPA 6020B
	Chromium-53	50.000	50.3	101	ug/L	EPA 6020B

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00013
Control Limt: +/- 10.00%
Sequence: SLE0043

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLE0043-CCV8	Lead-208	50.000	54.5	109	ug/L	EPA 6020B
	Silver-107	50.000	50.7	101	ug/L	EPA 6020B
SLE0043-CCV9	Chromium-52	50.000	50.6	101	ug/L	EPA 6020B
	Chromium-53	50.000	51.2	102	ug/L	EPA 6020B
	Lead-208	50.000	54.5	109	ug/L	EPA 6020B
	Silver-107	50.000	50.8	102	ug/L	EPA 6020B
SLE0043-CCVA	Chromium-52	50.000	50.0	100	ug/L	EPA 6020B
	Chromium-53	50.000	50.4	101	ug/L	EPA 6020B
	Lead-208	50.000	53.6	107	ug/L	EPA 6020B
	Silver-107	50.000	50.5	101	ug/L	EPA 6020B
SLE0043-CCVB	Chromium-52	50.000	50.1	100	ug/L	EPA 6020B
	Chromium-53	50.000	50.9	102	ug/L	EPA 6020B
	Lead-208	50.000	55.4	111	ug/L	EPA 6020B
	Silver-107	50.000	49.9	99.9	ug/L	EPA 6020B
SLE0043-CCVC	Chromium-52	50.000	50.1	100	ug/L	EPA 6020B
	Chromium-53	50.000	50.5	101	ug/L	EPA 6020B
	Lead-208	50.000	55.4	111	ug/L	EPA 6020B
	Silver-107	50.000	49.3	98.5	ug/L	EPA 6020B
SLE0043-CCVD	Chromium-52	50.000	49.8	99.5	ug/L	EPA 6020B
	Chromium-53	50.000	51.0	102	ug/L	EPA 6020B
	Lead-208	50.000	56.3	113	ug/L	EPA 6020B
	Silver-107	50.000	49.6	99.1	ug/L	EPA 6020B
SLE0043-CCVE	Chromium-52	50.000	50.0	100	ug/L	EPA 6020B
	Chromium-53	50.000	50.6	101	ug/L	EPA 6020B
	Lead-208	50.000	55.3	111	ug/L	EPA 6020B
	Silver-107	50.000	50.0	100	ug/L	EPA 6020B
SLE0043-CCVF	Chromium-52	50.000	51.0	102	ug/L	EPA 6020B
	Chromium-53	50.000	50.8	102	ug/L	EPA 6020B
	Lead-208	50.000	56.2	112	ug/L	EPA 6020B
	Silver-107	50.000	49.1	98.1	ug/L	EPA 6020B
SLE0043-CCVG	Chromium-52	50.000	49.7	99.4	ug/L	EPA 6020B
	Chromium-53	50.000	50.7	101	ug/L	EPA 6020B
	Lead-208	50.000	56.6	113	ug/L	EPA 6020B
	Silver-107	50.000	49.5	98.9	ug/L	EPA 6020B

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00013
Control Limt: +/- 10.00%
Sequence: SLE0043

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLE0043-CCVH	Chromium-52	50.000	52.7	105	ug/L	EPA 6020B
	Chromium-53	50.000	53.4	107	ug/L	EPA 6020B
	Lead-208	50.000	60.1	120	ug/L	EPA 6020B
	Silver-107	50.000	52.8	106	ug/L	EPA 6020B
SLE0043-CCVI	Chromium-52	50.000	49.3	98.6	ug/L	EPA 6020B
	Chromium-53	50.000	50.1	100	ug/L	EPA 6020B
	Lead-208	50.000	58.4	117	ug/L	EPA 6020B
	Silver-107	50.000	49.0	98.0	ug/L	EPA 6020B
SLE0043-CCVJ	Chromium-52	50.000	49.7	99.4	ug/L	EPA 6020B
	Chromium-53	50.000	50.2	100	ug/L	EPA 6020B
	Lead-208	50.000	57.9	116	ug/L	EPA 6020B
	Silver-107	50.000	49.2	98.5	ug/L	EPA 6020B
SLE0043-CCVK	Chromium-52	50.000	50.5	101	ug/L	EPA 6020B
	Chromium-53	50.000	51.8	104	ug/L	EPA 6020B
	Lead-208	50.000	57.8	116	ug/L	EPA 6020B
	Silver-107	50.000	49.8	99.6	ug/L	EPA 6020B

* Values outside of QC limits

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00019
Control Limt: +/- 10.00%
Sequence: SLE0071

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLE0071-ICV1	Lead-208	50.000	52.0	104	ug/L	EPA 6020B
SLE0071-CCV1	Lead-208	50.000	50.5	101	ug/L	EPA 6020B
SLE0071-CCV2	Lead-208	50.000	51.0	102	ug/L	EPA 6020B
SLE0071-CCV3	Lead-208	50.000	52.3	105	ug/L	EPA 6020B
SLE0071-CCV4	Lead-208	50.000	51.7	103	ug/L	EPA 6020B
SLE0071-CCV5	Lead-208	50.000	51.3	103	ug/L	EPA 6020B
SLE0071-CCV6	Lead-208	50.000	51.9	104	ug/L	EPA 6020B
SLE0071-CCV7	Lead-208	50.000	52.4	105	ug/L	EPA 6020B
SLE0071-CCV8	Lead-208	50.000	52.0	104	ug/L	EPA 6020B
SLE0071-CCV9	Lead-208	50.000	51.1	102	ug/L	EPA 6020B
SLE0071-CCVA	Lead-208	50.000	50.5	101	ug/L	EPA 6020B
SLE0071-CCVB	Lead-208	50.000	51.5	103	ug/L	EPA 6020B
SLE0071-CCVC	Lead-208	50.000	51.7	103	ug/L	EPA 6020B
SLE0071-CCVD	Lead-208	50.000	52.9	106	ug/L	EPA 6020B
SLE0071-CCVE	Lead-208	50.000	50.8	102	ug/L	EPA 6020B
SLE0071-CCVF	Lead-208	50.000	52.2	104	ug/L	EPA 6020B
SLE0071-CCVG	Lead-208	50.000	52.0	104	ug/L	EPA 6020B
SLE0071-CCVH	Lead-208	50.000	52.1	104	ug/L	EPA 6020B
SLE0071-CCVI	Lead-208	50.000	54.4	109	ug/L	EPA 6020B
SLE0071-CCVJ	Lead-208	50.000	54.0	108	ug/L	EPA 6020B
SLE0071-CCVK	Lead-208	50.000	53.4	107	ug/L	EPA 6020B
SLE0071-CCVL	Lead-208	50.000	52.9	106	ug/L	EPA 6020B
SLE0071-CCVM	Lead-208	50.000	50.9	102	ug/L	EPA 6020B
SLE0071-CCVN	Lead-208	50.000	52.2	104	ug/L	EPA 6020B

* Values outside of QC limits

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00040
Control Limt: +/- 10.00%
Sequence: SLE0204

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLE0204-ICV1	Chromium-52	50.000	52.9	106	ug/L	EPA 6020B
	Chromium-53	50.000	51.3	103	ug/L	EPA 6020B
	Lead-208	50.000	52.6	105	ug/L	EPA 6020B
	Silver-107	50.000	50.8	102	ug/L	EPA 6020B
SLE0204-CCV1	Chromium-52	50.000	51.5	103	ug/L	EPA 6020B
	Chromium-53	50.000	50.5	101	ug/L	EPA 6020B
	Lead-208	50.000	50.3	101	ug/L	EPA 6020B
	Silver-107	50.000	50.1	100	ug/L	EPA 6020B
SLE0204-CCV2	Chromium-52	50.000	49.6	99.2	ug/L	EPA 6020B
	Chromium-53	50.000	49.3	98.6	ug/L	EPA 6020B
	Lead-208	50.000	50.8	102	ug/L	EPA 6020B
	Silver-107	50.000	48.8	97.6	ug/L	EPA 6020B
SLE0204-CCV3	Chromium-52	50.000	50.1	100	ug/L	EPA 6020B
	Chromium-53	50.000	49.4	98.7	ug/L	EPA 6020B
	Lead-208	50.000	50.4	101	ug/L	EPA 6020B
	Silver-107	50.000	49.2	98.5	ug/L	EPA 6020B
SLE0204-CCV4	Chromium-52	50.000	50.6	101	ug/L	EPA 6020B
	Chromium-53	50.000	49.5	99.0	ug/L	EPA 6020B
	Lead-208	50.000	51.7	103	ug/L	EPA 6020B
	Silver-107	50.000	49.8	99.6	ug/L	EPA 6020B
SLE0204-CCV5	Chromium-52	50.000	51.1	102	ug/L	EPA 6020B
	Chromium-53	50.000	49.5	98.9	ug/L	EPA 6020B
	Lead-208	50.000	52.8	106	ug/L	EPA 6020B
	Silver-107	50.000	48.1	96.2	ug/L	EPA 6020B
SLE0204-CCV6	Chromium-52	50.000	49.2	98.3	ug/L	EPA 6020B
	Chromium-53	50.000	49.2	98.4	ug/L	EPA 6020B
	Lead-208	50.000	49.6	99.2	ug/L	EPA 6020B
	Silver-107	50.000	47.6	95.1	ug/L	EPA 6020B
SLE0204-CCV7	Chromium-52	50.000	49.7	99.4	ug/L	EPA 6020B
	Chromium-53	50.000	48.4	96.8	ug/L	EPA 6020B
	Lead-208	50.000	50.5	101	ug/L	EPA 6020B
	Silver-107	50.000	48.6	97.2	ug/L	EPA 6020B
SLE0204-CCV8	Chromium-52	50.000	50.7	101	ug/L	EPA 6020B
	Chromium-53	50.000	49.7	99.4	ug/L	EPA 6020B

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00040
Control Limt: +/- 10.00%
Sequence: SLE0204

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLE0204-CCV8	Lead-208	50.000	50.1	100	ug/L	EPA 6020B
	Silver-107	50.000	49.5	99.1	ug/L	EPA 6020B
SLE0204-CCV9	Chromium-52	50.000	49.4	98.8	ug/L	EPA 6020B
	Chromium-53	50.000	48.4	96.8	ug/L	EPA 6020B
	Lead-208	50.000	52.2	104	ug/L	EPA 6020B
	Silver-107	50.000	48.8	97.6	ug/L	EPA 6020B
SLE0204-CCVA	Chromium-52	50.000	50.2	100	ug/L	EPA 6020B
	Chromium-53	50.000	49.4	98.7	ug/L	EPA 6020B
	Lead-208	50.000	51.6	103	ug/L	EPA 6020B
	Silver-107	50.000	48.9	97.9	ug/L	EPA 6020B
SLE0204-CCVB	Chromium-52	50.000	50.3	101	ug/L	EPA 6020B
	Chromium-53	50.000	49.0	98.1	ug/L	EPA 6020B
	Lead-208	50.000	51.7	103	ug/L	EPA 6020B
	Silver-107	50.000	48.8	97.6	ug/L	EPA 6020B
SLE0204-CCVC	Chromium-52	50.000	49.0	98.0	ug/L	EPA 6020B
	Chromium-53	50.000	48.4	96.7	ug/L	EPA 6020B
	Lead-208	50.000	51.2	102	ug/L	EPA 6020B
	Silver-107	50.000	48.1	96.2	ug/L	EPA 6020B
SLE0204-CCVD	Chromium-52	50.000	49.9	99.8	ug/L	EPA 6020B
	Chromium-53	50.000	48.9	97.8	ug/L	EPA 6020B
	Lead-208	50.000	53.3	107	ug/L	EPA 6020B
	Silver-107	50.000	46.0	92.1	ug/L	EPA 6020B
SLE0204-CCVE	Chromium-52	50.000	48.9	97.7	ug/L	EPA 6020B
	Chromium-53	50.000	48.1	96.3	ug/L	EPA 6020B
	Lead-208	50.000	54.9	110	ug/L	EPA 6020B
	Silver-107	50.000	46.3	92.6	ug/L	EPA 6020B
SLE0204-CCVF	Chromium-52	50.000	48.7	97.4	ug/L	EPA 6020B
	Chromium-53	50.000	47.7	95.4	ug/L	EPA 6020B
	Lead-208	50.000	55.3	111	ug/L	EPA 6020B
	Silver-107	50.000	45.7	91.5	ug/L	EPA 6020B
SLE0204-CCVG	Chromium-52	50.000	49.5	99.0	ug/L	EPA 6020B
	Chromium-53	50.000	48.8	97.5	ug/L	EPA 6020B
	Lead-208	50.000	55.0	110	ug/L	EPA 6020B
	Silver-107	50.000	46.7	93.3	ug/L	EPA 6020B

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00040
Control Limt: +/- 10.00%
Sequence: SLE0204

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLE0204-CCVH	Chromium-52	50.000	49.5	99.0	ug/L	EPA 6020B
	Chromium-53	50.000	48.3	96.7	ug/L	EPA 6020B
	Lead-208	50.000	55.5	111	ug/L	EPA 6020B
	Silver-107	50.000	46.7	93.4	ug/L	EPA 6020B
SLE0204-CCVI	Chromium-52	50.000	50.2	100	ug/L	EPA 6020B
	Chromium-53	50.000	48.3	96.6	ug/L	EPA 6020B
	Lead-208	50.000	54.3	109	ug/L	EPA 6020B
	Silver-107	50.000	46.8	93.5	ug/L	EPA 6020B
SLE0204-CCVJ	Chromium-52	50.000	49.8	99.7	ug/L	EPA 6020B
	Chromium-53	50.000	49.3	98.5	ug/L	EPA 6020B
	Lead-208	50.000	55.8	112	ug/L	EPA 6020B
	Silver-107	50.000	45.7	91.4	ug/L	EPA 6020B

* Values outside of QC limits

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00042
Control Limt: +/- 10.00%
Sequence: SLE0209

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLE0209-ICV1	Chromium-52	50.000	51.3	103	ug/L	EPA 6020B
	Chromium-53	50.000	51.2	102	ug/L	EPA 6020B
	Lead-208	50.000	51.4	103	ug/L	EPA 6020B
	Silver-107	50.000	51.0	102	ug/L	EPA 6020B
SLE0209-CCV1	Chromium-52	50.000	49.3	98.5	ug/L	EPA 6020B
	Chromium-53	50.000	48.7	97.4	ug/L	EPA 6020B
	Lead-208	50.000	49.4	98.9	ug/L	EPA 6020B
	Silver-107	50.000	50.0	100	ug/L	EPA 6020B
SLE0209-CCV2	Chromium-52	50.000	48.9	97.8	ug/L	EPA 6020B
	Chromium-53	50.000	48.9	97.8	ug/L	EPA 6020B
	Lead-208	50.000	48.9	97.8	ug/L	EPA 6020B
	Silver-107	50.000	49.9	99.9	ug/L	EPA 6020B
SLE0209-CCV3	Chromium-52	50.000	48.7	97.4	ug/L	EPA 6020B
	Chromium-53	50.000	49.5	99.0	ug/L	EPA 6020B
	Lead-208	50.000	48.6	97.3	ug/L	EPA 6020B
	Silver-107	50.000	51.2	102	ug/L	EPA 6020B
SLE0209-CCV4	Chromium-52	50.000	48.9	97.7	ug/L	EPA 6020B
	Chromium-53	50.000	49.2	98.4	ug/L	EPA 6020B
	Lead-208	50.000	49.9	99.7	ug/L	EPA 6020B
	Silver-107	50.000	50.2	100	ug/L	EPA 6020B
SLE0209-CCV5	Lead-208	50.000	50.9	102	ug/L	EPA 6020B
SLE0209-CCV6	Lead-208	50.000	50.2	100	ug/L	EPA 6020B
SLE0209-CCV7	Chromium-52	50.000	46.9	93.7	ug/L	EPA 6020B
	Chromium-53	50.000	47.4	94.9	ug/L	EPA 6020B
	Lead-208	50.000	49.0	98.1	ug/L	EPA 6020B
	Silver-107	50.000	48.7	97.5	ug/L	EPA 6020B
SLE0209-CCV8	Chromium-52	50.000	48.0	96.1	ug/L	EPA 6020B
	Chromium-53	50.000	48.7	97.5	ug/L	EPA 6020B
	Lead-208	50.000	49.5	99.0	ug/L	EPA 6020B
	Silver-107	50.000	49.5	98.9	ug/L	EPA 6020B
SLE0209-CCVA	Chromium-52	50.000	47.9	95.8	ug/L	EPA 6020B
	Chromium-53	50.000	48.3	96.6	ug/L	EPA 6020B
	Lead-208	50.000	49.0	98.0	ug/L	EPA 6020B
	Silver-107	50.000	50.3	101	ug/L	EPA 6020B

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00042
Control Limt: +/- 10.00%
Sequence: SLE0209

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLE0209-CCVB	Chromium-52	50.000	47.8	95.6	ug/L	EPA 6020B
	Chromium-53	50.000	47.8	95.6	ug/L	EPA 6020B
	Lead-208	50.000	49.0	97.9	ug/L	EPA 6020B
	Silver-107	50.000	48.6	97.2	ug/L	EPA 6020B
SLE0209-CCVC	Chromium-52	50.000	48.9	97.7	ug/L	EPA 6020B
	Chromium-53	50.000	48.9	97.7	ug/L	EPA 6020B
	Lead-208	50.000	48.5	96.9	ug/L	EPA 6020B
	Silver-107	50.000	49.2	98.4	ug/L	EPA 6020B
SLE0209-CCVD	Chromium-52	50.000	47.5	95.1	ug/L	EPA 6020B
	Chromium-53	50.000	48.0	96.0	ug/L	EPA 6020B
	Lead-208	50.000	49.1	98.2	ug/L	EPA 6020B
	Silver-107	50.000	50.4	101	ug/L	EPA 6020B
SLE0209-CCVE	Chromium-52	50.000	48.6	97.2	ug/L	EPA 6020B
	Chromium-53	50.000	48.2	96.3	ug/L	EPA 6020B
	Lead-208	50.000	49.2	98.4	ug/L	EPA 6020B
	Silver-107	50.000	49.0	98.0	ug/L	EPA 6020B
SLE0209-CCVF	Chromium-52	50.000	48.5	97.0	ug/L	EPA 6020B
	Chromium-53	50.000	48.5	97.0	ug/L	EPA 6020B
	Lead-208	50.000	49.2	98.4	ug/L	EPA 6020B
	Silver-107	50.000	50.3	101	ug/L	EPA 6020B
SLE0209-CCVG	Chromium-52	50.000	48.0	96.1	ug/L	EPA 6020B
	Chromium-53	50.000	48.1	96.3	ug/L	EPA 6020B
	Lead-208	50.000	49.5	98.9	ug/L	EPA 6020B
	Silver-107	50.000	48.9	97.8	ug/L	EPA 6020B
SLE0209-CCVH	Chromium-52	50.000	48.0	95.9	ug/L	EPA 6020B
	Chromium-53	50.000	47.9	95.8	ug/L	EPA 6020B
	Lead-208	50.000	50.7	101	ug/L	EPA 6020B
	Silver-107	50.000	49.5	99.1	ug/L	EPA 6020B
SLE0209-CCVI	Chromium-52	50.000	48.5	97.1	ug/L	EPA 6020B
	Chromium-53	50.000	48.1	96.1	ug/L	EPA 6020B
	Lead-208	50.000	50.7	101	ug/L	EPA 6020B
	Silver-107	50.000	48.7	97.4	ug/L	EPA 6020B
SLE0209-CCVJ	Chromium-52	50.000	48.2	96.4	ug/L	EPA 6020B
	Chromium-53	50.000	48.5	96.9	ug/L	EPA 6020B

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00042
Control Limt: +/- 10.00%
Sequence: SLE0209

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLE0209-CCVJ	Lead-208	50.000	51.3	103	ug/L	EPA 6020B
	Silver-107	50.000	48.7	97.3	ug/L	EPA 6020B
SLE0209-CCVK	Chromium-52	50.000	47.3	94.7	ug/L	EPA 6020B
	Chromium-53	50.000	47.1	94.3	ug/L	EPA 6020B
	Lead-208	50.000	52.1	104	ug/L	EPA 6020B
	Silver-107	50.000	47.2	94.4	ug/L	EPA 6020B
SLE0209-CCVL	Chromium-52	50.000	46.5	92.9	ug/L	EPA 6020B
	Chromium-53	50.000	46.7	93.3	ug/L	EPA 6020B
	Lead-208	50.000	53.3	107	ug/L	EPA 6020B
	Silver-107	50.000	47.2	94.4	ug/L	EPA 6020B
SLE0209-CCVM	Chromium-52	50.000	46.3	92.7	ug/L	EPA 6020B
	Chromium-53	50.000	46.3	92.5	ug/L	EPA 6020B
	Lead-208	50.000	50.3	101	ug/L	EPA 6020B
	Silver-107	50.000	48.4	96.7	ug/L	EPA 6020B
SLE0209-CCVN	Chromium-52	50.000	43.3	86.6	ug/L	EPA 6020B
	Chromium-53	50.000	42.9	85.8	ug/L	EPA 6020B
	Lead-208	50.000	51.6	103	ug/L	EPA 6020B
	Silver-107	50.000	49.5	98.9	ug/L	EPA 6020B
SLE0209-CCVO	Chromium-52	50.000	43.1	86.1	ug/L	EPA 6020B
	Chromium-53	50.000	42.5	85.1	ug/L	EPA 6020B
	Lead-208	50.000	52.0	104	ug/L	EPA 6020B
	Silver-107	50.000	49.0	98.0	ug/L	EPA 6020B
SLE0209-CCVP	Chromium-52	50.000	43.1	86.3	ug/L	EPA 6020B
	Chromium-53	50.000	42.5	85.1	ug/L	EPA 6020B
	Lead-208	50.000	55.5	111	ug/L	EPA 6020B
	Silver-107	50.000	48.3	96.5	ug/L	EPA 6020B

* Values outside of QC limits

INSTRUMENT BLANKS
EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0017

SDG: 23C0071
Project: AOC5 MR Phase 1
Calibration: GE00007
Date Analyzed: 05/01/23 15:43

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0017-IBL1	Chromium-52	0.0150	0.26	0.500	ug/L	
SLE0017-IBL1	Chromium-53	-0.00500	0.239	0.500	ug/L	
SLE0017-IBL1	Lead-208	0.00	0.0513	0.100	ug/L	
SLE0017-IBL1	Silver-107	0.00400	0.022	0.200	ug/L	
SLE0017-ICB1	Chromium-52	-0.0130	0.26	0.500	ug/L	
SLE0017-ICB1	Chromium-53	-0.00100	0.239	0.500	ug/L	
SLE0017-ICB1	Lead-208	0.00	0.0513	0.100	ug/L	
SLE0017-ICB1	Silver-107	0.00200	0.022	0.200	ug/L	
SLE0017-CCB1	Chromium-52	-0.00600	0.26	0.500	ug/L	
SLE0017-CCB1	Chromium-53	-0.00500	0.239	0.500	ug/L	
SLE0017-CCB1	Lead-208	0.00	0.0513	0.100	ug/L	
SLE0017-CCB1	Silver-107	0.00100	0.022	0.200	ug/L	
SLE0017-IBL2	Chromium-52	0.00800	0.26	0.500	ug/L	
SLE0017-IBL2	Chromium-53	0.0470	0.239	0.500	ug/L	
SLE0017-IBL2	Lead-208	0.00	0.0513	0.100	ug/L	
SLE0017-IBL2	Silver-107	0.0100	0.022	0.200	ug/L	
SLE0017-CCB2	Chromium-52	-0.00400	0.26	0.500	ug/L	
SLE0017-CCB2	Chromium-53	0.0240	0.239	0.500	ug/L	
SLE0017-CCB2	Lead-208	0.00	0.0513	0.100	ug/L	
SLE0017-CCB2	Silver-107	0.00200	0.022	0.200	ug/L	
SLE0017-IBL3	Chromium-52	0.00300	0.26	0.500	ug/L	
SLE0017-IBL3	Chromium-53	0.0640	0.239	0.500	ug/L	
SLE0017-IBL3	Lead-208	0.0110	0.0513	0.100	ug/L	
SLE0017-IBL3	Silver-107	-0.00300	0.022	0.200	ug/L	
SLE0017-CCB3	Chromium-52	-0.0300	0.26	0.500	ug/L	
SLE0017-CCB3	Chromium-53	0.00800	0.239	0.500	ug/L	
SLE0017-CCB3	Lead-208	0.00	0.0513	0.100	ug/L	
SLE0017-CCB3	Silver-107	-0.00200	0.022	0.200	ug/L	
SLE0017-IBL4	Chromium-52	-0.00700	0.26	0.500	ug/L	
SLE0017-IBL4	Chromium-53	0.0470	0.239	0.500	ug/L	
SLE0017-IBL4	Lead-208	0.00	0.0513	0.100	ug/L	
SLE0017-IBL4	Silver-107	-0.00400	0.022	0.200	ug/L	
SLE0017-CCB4	Chromium-52	-0.0500	0.26	0.500	ug/L	
SLE0017-CCB4	Chromium-53	0.00300	0.239	0.500	ug/L	
SLE0017-CCB4	Lead-208	0.00	0.0513	0.100	ug/L	

INSTRUMENT BLANKS
EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0017

SDG: 23C0071
Project: AOC5 MR Phase 1
Calibration: GE00007
Date Analyzed: 05/01/23 19:15

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0017-CCB4	Silver-107	-0.00200	0.022	0.200	ug/L	
SLE0017-IBL5	Chromium-52	0.0700	0.26	0.500	ug/L	
SLE0017-IBL5	Chromium-53	0.0140	0.239	0.500	ug/L	
SLE0017-IBL5	Lead-208	0.00	0.0513	0.100	ug/L	
SLE0017-IBL5	Silver-107	-0.00600	0.022	0.200	ug/L	
SLE0017-CCB5	Chromium-52	-0.0600	0.26	0.500	ug/L	
SLE0017-CCB5	Chromium-53	-0.00900	0.239	0.500	ug/L	
SLE0017-CCB5	Lead-208	-0.00200	0.0513	0.100	ug/L	
SLE0017-CCB5	Silver-107	-0.00200	0.022	0.200	ug/L	
SLE0017-CCB6	Chromium-52	-0.0170	0.26	0.500	ug/L	
SLE0017-CCB6	Chromium-53	-0.00600	0.239	0.500	ug/L	
SLE0017-CCB6	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0017-CCB6	Silver-107	0.00400	0.022	0.200	ug/L	
SLE0017-IBL6	Chromium-52	0.0980	0.26	0.500	ug/L	
SLE0017-IBL6	Chromium-53	0.0150	0.239	0.500	ug/L	
SLE0017-IBL6	Lead-208	0.00400	0.0513	0.100	ug/L	
SLE0017-IBL6	Silver-107	-0.00200	0.022	0.200	ug/L	
SLE0017-IBL7	Chromium-52	0.0310	0.26	0.500	ug/L	
SLE0017-IBL7	Chromium-53	-0.00200	0.239	0.500	ug/L	
SLE0017-IBL7	Lead-208	0.00800	0.0513	0.100	ug/L	
SLE0017-IBL7	Silver-107	0.00200	0.022	0.200	ug/L	
SLE0017-CCB7	Chromium-52	-0.0120	0.26	0.500	ug/L	
SLE0017-CCB7	Chromium-53	-0.0150	0.239	0.500	ug/L	
SLE0017-CCB7	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0017-CCB7	Silver-107	0.00200	0.022	0.200	ug/L	
SLE0017-IBL8	Chromium-52	0.0190	0.26	0.500	ug/L	
SLE0017-IBL8	Chromium-53	0.00700	0.239	0.500	ug/L	
SLE0017-IBL8	Lead-208	0.00800	0.0513	0.100	ug/L	
SLE0017-IBL8	Silver-107	0.00100	0.022	0.200	ug/L	
SLE0017-CCB8	Chromium-52	-0.0140	0.26	0.500	ug/L	
SLE0017-CCB8	Chromium-53	-0.00200	0.239	0.500	ug/L	
SLE0017-CCB8	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0017-CCB8	Silver-107	0.00100	0.022	0.200	ug/L	
SLE0017-IBL9	Chromium-52	0.0210	0.26	0.500	ug/L	
SLE0017-IBL9	Chromium-53	0.0110	0.239	0.500	ug/L	
SLE0017-IBL9	Lead-208	0.00700	0.0513	0.100	ug/L	

Analytical Resources, LLC
Analytical Chemists and Consultants

INSTRUMENT BLANKS
EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0017

SDG: 23C0071
Project: AOC5 MR Phase 1
Calibration: GE00007
Date Analyzed: 05/01/23 23:42

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0017-IBL9	Silver-107	-0.00200	0.022	0.200	ug/L	
SLE0017-CCB9	Chromium-52	0.0110	0.26	0.500	ug/L	
SLE0017-CCB9	Chromium-53	0.00	0.239	0.500	ug/L	
SLE0017-CCB9	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0017-CCB9	Silver-107	0.00	0.022	0.200	ug/L	
SLE0017-IBLA	Chromium-52	0.0490	0.26	0.500	ug/L	
SLE0017-IBLA	Chromium-53	0.299	0.239	0.500	ug/L	
SLE0017-IBLA	Lead-208	0.00800	0.0513	0.100	ug/L	
SLE0017-IBLA	Silver-107	-0.00200	0.022	0.200	ug/L	
SLE0017-CCBA	Chromium-52	0.0260	0.26	0.500	ug/L	
SLE0017-CCBA	Chromium-53	0.121	0.239	0.500	ug/L	
SLE0017-CCBA	Lead-208	0.00	0.0513	0.100	ug/L	
SLE0017-CCBA	Silver-107	0.00	0.022	0.200	ug/L	
SLE0017-CCBB	Chromium-52	-0.00800	0.26	0.500	ug/L	
SLE0017-CCBB	Chromium-53	-0.0380	0.239	0.500	ug/L	
SLE0017-CCBB	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0017-CCBB	Silver-107	0.00200	0.022	0.200	ug/L	
SLE0017-IBLB	Chromium-52	0.0210	0.26	0.500	ug/L	
SLE0017-IBLB	Chromium-53	0.148	0.239	0.500	ug/L	
SLE0017-IBLB	Lead-208	0.00800	0.0513	0.100	ug/L	
SLE0017-IBLB	Silver-107	-0.00200	0.022	0.200	ug/L	
SLE0017-CCBC	Chromium-52	-0.0550	0.26	0.500	ug/L	
SLE0017-CCBC	Chromium-53	0.0180	0.239	0.500	ug/L	
SLE0017-CCBC	Lead-208	0.00	0.0513	0.100	ug/L	
SLE0017-CCBC	Silver-107	0.00100	0.022	0.200	ug/L	
SLE0017-IBLC	Chromium-52	-0.0420	0.26	0.500	ug/L	
SLE0017-IBLC	Chromium-53	0.0140	0.239	0.500	ug/L	
SLE0017-IBLC	Lead-208	0.00800	0.0513	0.100	ug/L	
SLE0017-IBLC	Silver-107	-0.00200	0.022	0.200	ug/L	
SLE0017-CCBD	Chromium-52	-0.0520	0.26	0.500	ug/L	
SLE0017-CCBD	Chromium-53	-0.0430	0.239	0.500	ug/L	
SLE0017-CCBD	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0017-CCBD	Silver-107	0.00200	0.022	0.200	ug/L	
SLE0017-IBLD	Chromium-52	-0.0270	0.26	0.500	ug/L	
SLE0017-IBLD	Chromium-53	-0.0750	0.239	0.500	ug/L	
SLE0017-IBLD	Lead-208	0.0130	0.0513	0.100	ug/L	

INSTRUMENT BLANKS
EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0017

SDG: 23C0071
Project: AOC5 MR Phase 1
Calibration: GE00007
Date Analyzed: 05/02/23 04:04

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0017-IBLD	Silver-107	0.00400	0.022	0.200	ug/L	
SLE0017-CCBE	Chromium-52	-0.0460	0.26	0.500	ug/L	
SLE0017-CCBE	Chromium-53	-0.0880	0.239	0.500	ug/L	
SLE0017-CCBE	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0017-CCBE	Silver-107	0.00100	0.022	0.200	ug/L	
SLE0017-IBLE	Chromium-52	-0.00800	0.26	0.500	ug/L	
SLE0017-IBLE	Chromium-53	-0.0430	0.239	0.500	ug/L	
SLE0017-IBLE	Lead-208	0.00800	0.0513	0.100	ug/L	
SLE0017-IBLE	Silver-107	-0.00100	0.022	0.200	ug/L	
SLE0017-IBLF	Chromium-52	-0.0340	0.26	0.500	ug/L	
SLE0017-IBLF	Chromium-53	-0.0650	0.239	0.500	ug/L	
SLE0017-IBLF	Lead-208	0.0110	0.0513	0.100	ug/L	
SLE0017-IBLF	Silver-107	0.00300	0.022	0.200	ug/L	
SLE0017-CCBF	Chromium-52	-0.0510	0.26	0.500	ug/L	
SLE0017-CCBF	Chromium-53	-0.0880	0.239	0.500	ug/L	
SLE0017-CCBF	Lead-208	0.00	0.0513	0.100	ug/L	
SLE0017-CCBF	Silver-107	0.00100	0.022	0.200	ug/L	
SLE0017-CCBG	Chromium-52	-0.0120	0.26	0.500	ug/L	
SLE0017-CCBG	Chromium-53	-0.00900	0.239	0.500	ug/L	
SLE0017-CCBG	Lead-208	0.00	0.0513	0.100	ug/L	
SLE0017-CCBG	Silver-107	0.00200	0.022	0.200	ug/L	
SLE0017-IBLG	Chromium-52	0.0330	0.26	0.500	ug/L	
SLE0017-IBLG	Chromium-53	0.0310	0.239	0.500	ug/L	
SLE0017-IBLG	Lead-208	0.00500	0.0513	0.100	ug/L	
SLE0017-IBLG	Silver-107	-0.00200	0.022	0.200	ug/L	
SLE0017-IBLH	Chromium-52	0.0280	0.26	0.500	ug/L	
SLE0017-IBLH	Chromium-53	0.0250	0.239	0.500	ug/L	
SLE0017-IBLH	Lead-208	0.00500	0.0513	0.100	ug/L	
SLE0017-IBLH	Silver-107	0.00200	0.022	0.200	ug/L	
SLE0017-CCBH	Chromium-52	-0.0170	0.26	0.500	ug/L	
SLE0017-CCBH	Chromium-53	0.00	0.239	0.500	ug/L	
SLE0017-CCBH	Lead-208	0.00200	0.0513	0.100	ug/L	
SLE0017-CCBH	Silver-107	0.00300	0.022	0.200	ug/L	
SLE0017-IBLI	Chromium-52	0.0130	0.26	0.500	ug/L	
SLE0017-IBLI	Chromium-53	0.0180	0.239	0.500	ug/L	
SLE0017-IBLI	Lead-208	0.00700	0.0513	0.100	ug/L	

INSTRUMENT BLANKS
EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0017

SDG: 23C0071
Project: AOC5 MR Phase 1
Calibration: GE00007
Date Analyzed: 05/02/23 06:50

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0017-IBLI	Silver-107	0.00300	0.022	0.200	ug/L	
SLE0017-IBLJ	Chromium-52	-0.0140	0.26	0.500	ug/L	
SLE0017-IBLJ	Chromium-53	-0.0130	0.239	0.500	ug/L	
SLE0017-IBLJ	Lead-208	0.00600	0.0513	0.100	ug/L	
SLE0017-IBLJ	Silver-107	0.00300	0.022	0.200	ug/L	
SLE0017-CCBI	Chromium-52	-0.0170	0.26	0.500	ug/L	
SLE0017-CCBI	Chromium-53	-0.0180	0.239	0.500	ug/L	
SLE0017-CCBI	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0017-CCBI	Silver-107	0.00200	0.022	0.200	ug/L	
SLE0017-IBLK	Chromium-52	0.0130	0.26	0.500	ug/L	
SLE0017-IBLK	Chromium-53	0.0450	0.239	0.500	ug/L	
SLE0017-IBLK	Lead-208	0.00600	0.0513	0.100	ug/L	
SLE0017-IBLK	Silver-107	0.00300	0.022	0.200	ug/L	
SLE0017-IBLL	Chromium-52	-0.0450	0.26	0.500	ug/L	
SLE0017-IBLL	Chromium-53	-0.00500	0.239	0.500	ug/L	
SLE0017-IBLL	Lead-208	0.00900	0.0513	0.100	ug/L	
SLE0017-IBLL	Silver-107	0.00500	0.022	0.200	ug/L	
SLE0017-CCBJ	Chromium-52	-0.0230	0.26	0.500	ug/L	
SLE0017-CCBJ	Chromium-53	-0.0160	0.239	0.500	ug/L	
SLE0017-CCBJ	Lead-208	0.00200	0.0513	0.100	ug/L	
SLE0017-CCBJ	Silver-107	0.00200	0.022	0.200	ug/L	
SLE0017-IBLM	Chromium-52	-0.0160	0.26	0.500	ug/L	
SLE0017-IBLM	Chromium-53	-0.00800	0.239	0.500	ug/L	
SLE0017-IBLM	Lead-208	0.00600	0.0513	0.100	ug/L	
SLE0017-IBLM	Silver-107	0.00200	0.022	0.200	ug/L	
SLE0017-IBLN	Chromium-52	-0.0370	0.26	0.500	ug/L	
SLE0017-IBLN	Chromium-53	-0.00700	0.239	0.500	ug/L	
SLE0017-IBLN	Lead-208	0.0110	0.0513	0.100	ug/L	
SLE0017-IBLN	Silver-107	0.00600	0.022	0.200	ug/L	
SLE0017-CCBK	Chromium-52	-0.0240	0.26	0.500	ug/L	
SLE0017-CCBK	Chromium-53	-0.0200	0.239	0.500	ug/L	
SLE0017-CCBK	Lead-208	0.00	0.0513	0.100	ug/L	
SLE0017-CCBK	Silver-107	0.00300	0.022	0.200	ug/L	
SLE0017-IBLO	Chromium-52	-0.0610	0.26	0.500	ug/L	
SLE0017-IBLO	Chromium-53	-0.00600	0.239	0.500	ug/L	
SLE0017-IBLO	Lead-208	0.00800	0.0513	0.100	ug/L	

INSTRUMENT BLANKS
EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0017

SDG: 23C0071
Project: AOC5 MR Phase 1
Calibration: GE00007
Date Analyzed: 05/02/23 10:11

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0017-IBLO	Silver-107	0.00300	0.022	0.200	ug/L	
SLE0017-CCBL	Chromium-52	-0.0830	0.26	0.500	ug/L	
SLE0017-CCBL	Chromium-53	-0.0170	0.239	0.500	ug/L	
SLE0017-CCBL	Lead-208	0.00200	0.0513	0.100	ug/L	
SLE0017-CCBL	Silver-107	0.00200	0.022	0.200	ug/L	

INSTRUMENT BLANKS
EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0043

SDG: 23C0071
Project: AOC5 MR Phase 1
Calibration: GE00013
Date Analyzed: 05/02/23 14:19

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0043-IBL1	Chromium-52	0.00100	0.26	0.500	ug/L	
SLE0043-IBL1	Chromium-53	-0.00500	0.239	0.500	ug/L	
SLE0043-IBL1	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0043-IBL1	Silver-107	0.00300	0.022	0.200	ug/L	
SLE0043-ICB1	Chromium-52	0.0110	0.26	0.500	ug/L	
SLE0043-ICB1	Chromium-53	-0.00900	0.239	0.500	ug/L	
SLE0043-ICB1	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0043-ICB1	Silver-107	0.00300	0.022	0.200	ug/L	
SLE0043-CCB1	Chromium-52	0.00500	0.26	0.500	ug/L	
SLE0043-CCB1	Chromium-53	-0.0100	0.239	0.500	ug/L	
SLE0043-CCB1	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0043-CCB1	Silver-107	0.00200	0.022	0.200	ug/L	
SLE0043-IBL2	Chromium-52	0.100	0.26	0.500	ug/L	
SLE0043-IBL2	Chromium-53	0.131	0.239	0.500	ug/L	
SLE0043-IBL2	Lead-208	0.113	0.0513	0.100	ug/L	
SLE0043-IBL2	Silver-107	0.113	0.022	0.200	ug/L	
SLE0043-IBL3	Chromium-52	-0.0110	0.26	0.500	ug/L	
SLE0043-IBL3	Chromium-53	0.0160	0.239	0.500	ug/L	
SLE0043-IBL3	Lead-208	0.00200	0.0513	0.100	ug/L	
SLE0043-IBL3	Silver-107	0.00400	0.022	0.200	ug/L	
SLE0043-CCB2	Chromium-52	-0.0100	0.26	0.500	ug/L	
SLE0043-CCB2	Chromium-53	0.00400	0.239	0.500	ug/L	
SLE0043-CCB2	Lead-208	0.00300	0.0513	0.100	ug/L	
SLE0043-CCB2	Silver-107	0.00600	0.022	0.200	ug/L	
SLE0043-IBL4	Chromium-52	-0.00800	0.26	0.500	ug/L	
SLE0043-IBL4	Chromium-53	0.0820	0.239	0.500	ug/L	
SLE0043-IBL4	Lead-208	0.00200	0.0513	0.100	ug/L	
SLE0043-IBL4	Silver-107	-0.00100	0.022	0.200	ug/L	
SLE0043-CCB3	Chromium-52	-0.0160	0.26	0.500	ug/L	
SLE0043-CCB3	Chromium-53	0.0180	0.239	0.500	ug/L	
SLE0043-CCB3	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0043-CCB3	Silver-107	0.00300	0.022	0.200	ug/L	
SLE0043-CCB4	Chromium-52	0.00	0.26	0.500	ug/L	
SLE0043-CCB4	Chromium-53	-0.00600	0.239	0.500	ug/L	
SLE0043-CCB4	Lead-208	0.00100	0.0513	0.100	ug/L	

INSTRUMENT BLANKS
EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0043

SDG: 23C0071
Project: AOC5 MR Phase 1
Calibration: GE00013
Date Analyzed: 05/02/23 17:18

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0043-CCB4	Silver-107	0.00300	0.022	0.200	ug/L	
SLE0043-CCB5	Chromium-52	0.00800	0.26	0.500	ug/L	
SLE0043-CCB5	Chromium-53	-0.0150	0.239	0.500	ug/L	
SLE0043-CCB5	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0043-CCB5	Silver-107	0.00200	0.022	0.200	ug/L	
SLE0043-CCB6	Chromium-52	-0.0140	0.26	0.500	ug/L	
SLE0043-CCB6	Chromium-53	-0.0230	0.239	0.500	ug/L	
SLE0043-CCB6	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0043-CCB6	Silver-107	0.00100	0.022	0.200	ug/L	
SLE0043-CCB7	Chromium-52	0.00700	0.26	0.500	ug/L	
SLE0043-CCB7	Chromium-53	-0.0190	0.239	0.500	ug/L	
SLE0043-CCB7	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0043-CCB7	Silver-107	0.00100	0.022	0.200	ug/L	
SLE0043-CCB8	Chromium-52	-0.0210	0.26	0.500	ug/L	
SLE0043-CCB8	Chromium-53	-0.0250	0.239	0.500	ug/L	
SLE0043-CCB8	Lead-208	0.00200	0.0513	0.100	ug/L	
SLE0043-CCB8	Silver-107	0.00100	0.022	0.200	ug/L	
SLE0043-CCB9	Chromium-52	-0.0130	0.26	0.500	ug/L	
SLE0043-CCB9	Chromium-53	-0.0280	0.239	0.500	ug/L	
SLE0043-CCB9	Lead-208	0.00300	0.0513	0.100	ug/L	
SLE0043-CCB9	Silver-107	0.00300	0.022	0.200	ug/L	
SLE0043-CCBA	Chromium-52	-0.0110	0.26	0.500	ug/L	
SLE0043-CCBA	Chromium-53	0.00400	0.239	0.500	ug/L	
SLE0043-CCBA	Lead-208	0.00	0.0513	0.100	ug/L	
SLE0043-CCBA	Silver-107	0.00100	0.022	0.200	ug/L	
SLE0043-IBL5	Chromium-52	-0.0200	0.26	0.500	ug/L	
SLE0043-IBL5	Chromium-53	-0.0110	0.239	0.500	ug/L	
SLE0043-IBL5	Lead-208	0.00200	0.0513	0.100	ug/L	
SLE0043-IBL5	Silver-107	-0.00100	0.022	0.200	ug/L	
SLE0043-CCBB	Chromium-52	-0.0310	0.26	0.500	ug/L	
SLE0043-CCBB	Chromium-53	-0.00700	0.239	0.500	ug/L	
SLE0043-CCBB	Lead-208	0.00	0.0513	0.100	ug/L	
SLE0043-CCBB	Silver-107	0.00100	0.022	0.200	ug/L	
SLE0043-IBL6	Chromium-52	0.0350	0.26	0.500	ug/L	
SLE0043-IBL6	Chromium-53	0.0120	0.239	0.500	ug/L	
SLE0043-IBL6	Lead-208	0.00200	0.0513	0.100	ug/L	

INSTRUMENT BLANKS
EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0043

SDG: 23C0071
Project: AOC5 MR Phase 1
Calibration: GE00013
Date Analyzed: 05/02/23 23:43

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0043-IBL6	Silver-107	-0.00100	0.022	0.200	ug/L	
SLE0043-IBL7	Chromium-52	-0.0210	0.26	0.500	ug/L	
SLE0043-IBL7	Chromium-53	0.0290	0.239	0.500	ug/L	
SLE0043-IBL7	Lead-208	0.00300	0.0513	0.100	ug/L	
SLE0043-IBL7	Silver-107	0.00100	0.022	0.200	ug/L	
SLE0043-CCBC	Chromium-52	-0.0450	0.26	0.500	ug/L	
SLE0043-CCBC	Chromium-53	0.0110	0.239	0.500	ug/L	
SLE0043-CCBC	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0043-CCBC	Silver-107	0.00100	0.022	0.200	ug/L	
SLE0043-IBL8	Chromium-52	-0.0430	0.26	0.500	ug/L	
SLE0043-IBL8	Chromium-53	0.0200	0.239	0.500	ug/L	
SLE0043-IBL8	Lead-208	0.00300	0.0513	0.100	ug/L	
SLE0043-IBL8	Silver-107	0.00100	0.022	0.200	ug/L	
SLE0043-CCBD	Chromium-52	-0.0360	0.26	0.500	ug/L	
SLE0043-CCBD	Chromium-53	0.00900	0.239	0.500	ug/L	
SLE0043-CCBD	Lead-208	0.00	0.0513	0.100	ug/L	
SLE0043-CCBD	Silver-107	0.00100	0.022	0.200	ug/L	
SLE0043-IBL9	Chromium-52	-0.00100	0.26	0.500	ug/L	
SLE0043-IBL9	Chromium-53	0.325	0.239	0.500	ug/L	
SLE0043-IBL9	Lead-208	0.00200	0.0513	0.100	ug/L	
SLE0043-IBL9	Silver-107	-0.00100	0.022	0.200	ug/L	
SLE0043-CCBE	Chromium-52	-0.0380	0.26	0.500	ug/L	
SLE0043-CCBE	Chromium-53	0.133	0.239	0.500	ug/L	
SLE0043-CCBE	Lead-208	0.00	0.0513	0.100	ug/L	
SLE0043-CCBE	Silver-107	0.00200	0.022	0.200	ug/L	
SLE0043-CCBF	Chromium-52	0.00400	0.26	0.500	ug/L	
SLE0043-CCBF	Chromium-53	-0.0270	0.239	0.500	ug/L	
SLE0043-CCBF	Lead-208	0.00	0.0513	0.100	ug/L	
SLE0043-CCBF	Silver-107	0.00200	0.022	0.200	ug/L	
SLE0043-IBLA	Chromium-52	-0.00700	0.26	0.500	ug/L	
SLE0043-IBLA	Chromium-53	0.0290	0.239	0.500	ug/L	
SLE0043-IBLA	Lead-208	0.00300	0.0513	0.100	ug/L	
SLE0043-IBLA	Silver-107	-0.00100	0.022	0.200	ug/L	
SLE0043-CCBG	Chromium-52	0.0110	0.26	0.500	ug/L	
SLE0043-CCBG	Chromium-53	-0.0490	0.239	0.500	ug/L	
SLE0043-CCBG	Lead-208	0.00	0.0513	0.100	ug/L	

INSTRUMENT BLANKS
EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0043

SDG: 23C0071
Project: AOC5 MR Phase 1
Calibration: GE00013
Date Analyzed: 05/03/23 03:06

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0043-CCBG	Silver-107	0.00200	0.022	0.200	ug/L	
SLE0043-IBLB	Chromium-52	0.00100	0.26	0.500	ug/L	
SLE0043-IBLB	Chromium-53	-0.0220	0.239	0.500	ug/L	
SLE0043-IBLB	Lead-208	0.00200	0.0513	0.100	ug/L	
SLE0043-IBLB	Silver-107	-0.00100	0.022	0.200	ug/L	
SLE0043-CCBH	Chromium-52	-0.0180	0.26	0.500	ug/L	
SLE0043-CCBH	Chromium-53	-0.0670	0.239	0.500	ug/L	
SLE0043-CCBH	Lead-208	0.00	0.0513	0.100	ug/L	
SLE0043-CCBH	Silver-107	0.00100	0.022	0.200	ug/L	
SLE0043-IBLC	Chromium-52	-0.00800	0.26	0.500	ug/L	
SLE0043-IBLC	Chromium-53	-0.0600	0.239	0.500	ug/L	
SLE0043-IBLC	Lead-208	0.00200	0.0513	0.100	ug/L	
SLE0043-IBLC	Silver-107	-0.00100	0.022	0.200	ug/L	
SLE0043-CCBI	Chromium-52	-0.0150	0.26	0.500	ug/L	
SLE0043-CCBI	Chromium-53	-0.0950	0.239	0.500	ug/L	
SLE0043-CCBI	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0043-CCBI	Silver-107	0.00200	0.022	0.200	ug/L	
SLE0043-IBLD	Chromium-52	0.0780	0.26	0.500	ug/L	
SLE0043-IBLD	Chromium-53	0.0800	0.239	0.500	ug/L	
SLE0043-IBLD	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0043-IBLD	Silver-107	-0.00100	0.022	0.200	ug/L	
SLE0043-CCBJ	Chromium-52	-0.00300	0.26	0.500	ug/L	
SLE0043-CCBJ	Chromium-53	-0.0520	0.239	0.500	ug/L	
SLE0043-CCBJ	Lead-208	0.00	0.0513	0.100	ug/L	
SLE0043-CCBJ	Silver-107	0.00200	0.022	0.200	ug/L	
SLE0043-IBLE	Chromium-52	0.0270	0.26	0.500	ug/L	
SLE0043-IBLE	Chromium-53	0.266	0.239	0.500	ug/L	
SLE0043-IBLE	Lead-208	0.00	0.0513	0.100	ug/L	
SLE0043-IBLE	Silver-107	-0.00100	0.022	0.200	ug/L	
SLE0043-CCBK	Chromium-52	0.0510	0.26	0.500	ug/L	
SLE0043-CCBK	Chromium-53	0.0500	0.239	0.500	ug/L	
SLE0043-CCBK	Lead-208	0.0320	0.0513	0.100	ug/L	
SLE0043-CCBK	Silver-107	0.0250	0.022	0.200	ug/L	

INSTRUMENT BLANKS
EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0071

SDG: 23C0071
Project: AOC5 MR Phase 1
Calibration: GE00019
Date Analyzed: 05/03/23 14:07

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0071-IBL1	Lead-208	0.00200	0.0513	0.100	ug/L	
SLE0071-ICB1	Lead-208	0.00400	0.0513	0.100	ug/L	
SLE0071-CCB1	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0071-IBL2	Lead-208	0.0120	0.0513	0.100	ug/L	
SLE0071-IBL3	Lead-208	0.00900	0.0513	0.100	ug/L	
SLE0071-CCB2	Lead-208	0.00200	0.0513	0.100	ug/L	
SLE0071-IBL4	Lead-208	0.00300	0.0513	0.100	ug/L	
SLE0071-CCB3	Lead-208	0.00200	0.0513	0.100	ug/L	
SLE0071-CCB4	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0071-IBL5	Lead-208	0.00300	0.0513	0.100	ug/L	
SLE0071-CCB5	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0071-IBL6	Lead-208	0.00200	0.0513	0.100	ug/L	
SLE0071-CCB6	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0071-IBL7	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0071-IBL8	Lead-208	0.00400	0.0513	0.100	ug/L	
SLE0071-CCB7	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0071-CCB8	Lead-208	0.00	0.0513	0.100	ug/L	
SLE0071-IBL9	Lead-208	0.00300	0.0513	0.100	ug/L	
SLE0071-CCB9	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0071-IBLA	Lead-208	0.00300	0.0513	0.100	ug/L	
SLE0071-CCBA	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0071-IBLB	Lead-208	0.00300	0.0513	0.100	ug/L	
SLE0071-IBLC	Lead-208	0.00300	0.0513	0.100	ug/L	
SLE0071-CCBB	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0071-IBLD	Lead-208	0.00200	0.0513	0.100	ug/L	
SLE0071-IBLE	Lead-208	0.00200	0.0513	0.100	ug/L	
SLE0071-CCBC	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0071-IBLF	Lead-208	0.00300	0.0513	0.100	ug/L	
SLE0071-IBLG	Lead-208	0.00200	0.0513	0.100	ug/L	
SLE0071-CCBD	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0071-CCBE	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0071-IBLH	Lead-208	-0.00100	0.0513	0.100	ug/L	
SLE0071-CCBF	Lead-208	0.00	0.0513	0.100	ug/L	
SLE0071-IBLI	Lead-208	-0.00100	0.0513	0.100	ug/L	
SLE0071-CCBG	Lead-208	0.00	0.0513	0.100	ug/L	

INSTRUMENT BLANKS
EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0071

SDG: 23C0071
Project: AOC5 MR Phase 1
Calibration: GE00019
Date Analyzed: 05/04/23 03:15

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0071-CCBH	Lead-208	0.00	0.0513	0.100	ug/L	
SLE0071-IBLJ	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0071-CCBI	Lead-208	0.00	0.0513	0.100	ug/L	
SLE0071-CCBJ	Lead-208	-0.00100	0.0513	0.100	ug/L	
SLE0071-CCBK	Lead-208	-0.00100	0.0513	0.100	ug/L	
SLE0071-IBLK	Lead-208	0.00	0.0513	0.100	ug/L	
SLE0071-CCBL	Lead-208	-0.00100	0.0513	0.100	ug/L	
SLE0071-IBLL	Lead-208	0.00	0.0513	0.100	ug/L	
SLE0071-CCBM	Lead-208	0.0280	0.0513	0.100	ug/L	
SLE0071-IBLM	Lead-208	0.00	0.0513	0.100	ug/L	
SLE0071-CCBN	Lead-208	0.00	0.0513	0.100	ug/L	

INSTRUMENT BLANKS
EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0204

SDG: 23C0071
Project: AOC5 MR Phase 1
Calibration: GE00040
Date Analyzed: 05/10/23 16:19

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0204-IBL1	Chromium-52	0.0110	0.26	0.500	ug/L	
SLE0204-IBL1	Chromium-53	0.00400	0.239	0.500	ug/L	
SLE0204-IBL1	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0204-IBL1	Silver-107	0.00400	0.022	0.200	ug/L	
SLE0204-ICB1	Chromium-52	0.0170	0.26	0.500	ug/L	
SLE0204-ICB1	Chromium-53	-0.00200	0.239	0.500	ug/L	
SLE0204-ICB1	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0204-ICB1	Silver-107	0.00200	0.022	0.200	ug/L	
SLE0204-CCB1	Chromium-52	0.00600	0.26	0.500	ug/L	
SLE0204-CCB1	Chromium-53	-0.00500	0.239	0.500	ug/L	
SLE0204-CCB1	Lead-208	0.00	0.0513	0.100	ug/L	
SLE0204-CCB1	Silver-107	0.00200	0.022	0.200	ug/L	
SLE0204-IBL2	Chromium-52	0.0130	0.26	0.500	ug/L	
SLE0204-IBL2	Chromium-53	0.00600	0.239	0.500	ug/L	
SLE0204-IBL2	Lead-208	0.00200	0.0513	0.100	ug/L	
SLE0204-IBL2	Silver-107	0.00800	0.022	0.200	ug/L	
SLE0204-CCB2	Chromium-52	0.0230	0.26	0.500	ug/L	
SLE0204-CCB2	Chromium-53	0.0280	0.239	0.500	ug/L	
SLE0204-CCB2	Lead-208	0.0300	0.0513	0.100	ug/L	
SLE0204-CCB2	Silver-107	0.0300	0.022	0.200	ug/L	
SLE0204-CCB3	Chromium-52	-0.0200	0.26	0.500	ug/L	
SLE0204-CCB3	Chromium-53	-0.00800	0.239	0.500	ug/L	
SLE0204-CCB3	Lead-208	0.00400	0.0513	0.100	ug/L	
SLE0204-CCB3	Silver-107	0.00600	0.022	0.200	ug/L	
SLE0204-IBL3	Chromium-52	-0.0220	0.26	0.500	ug/L	
SLE0204-IBL3	Chromium-53	-0.0170	0.239	0.500	ug/L	
SLE0204-IBL3	Lead-208	0.00400	0.0513	0.100	ug/L	
SLE0204-IBL3	Silver-107	-0.00100	0.022	0.200	ug/L	
SLE0204-CCB4	Chromium-52	-0.0320	0.26	0.500	ug/L	
SLE0204-CCB4	Chromium-53	-0.0110	0.239	0.500	ug/L	
SLE0204-CCB4	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0204-CCB4	Silver-107	0.00100	0.022	0.200	ug/L	
SLE0204-IBL4	Chromium-52	-0.00700	0.26	0.500	ug/L	
SLE0204-IBL4	Chromium-53	0.00500	0.239	0.500	ug/L	
SLE0204-IBL4	Lead-208	0.00400	0.0513	0.100	ug/L	

INSTRUMENT BLANKS
EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0204

SDG: 23C0071
Project: AOC5 MR Phase 1
Calibration: GE00040
Date Analyzed: 05/10/23 19:33

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0204-IBL4	Silver-107	-0.00100	0.022	0.200	ug/L	
SLE0204-IBL5	Chromium-52	0.0360	0.26	0.500	ug/L	
SLE0204-IBL5	Chromium-53	0.0240	0.239	0.500	ug/L	
SLE0204-IBL5	Lead-208	0.00300	0.0513	0.100	ug/L	
SLE0204-IBL5	Silver-107	-0.00100	0.022	0.200	ug/L	
SLE0204-CCB5	Chromium-52	-0.0410	0.26	0.500	ug/L	
SLE0204-CCB5	Chromium-53	-0.0180	0.239	0.500	ug/L	
SLE0204-CCB5	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0204-CCB5	Silver-107	0.00100	0.022	0.200	ug/L	
SLE0204-CCB6	Chromium-52	-0.0280	0.26	0.500	ug/L	
SLE0204-CCB6	Chromium-53	-0.0190	0.239	0.500	ug/L	
SLE0204-CCB6	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0204-CCB6	Silver-107	0.00400	0.022	0.200	ug/L	
SLE0204-IBL6	Chromium-52	-0.0170	0.26	0.500	ug/L	
SLE0204-IBL6	Chromium-53	0.00200	0.239	0.500	ug/L	
SLE0204-IBL6	Lead-208	0.00	0.0513	0.100	ug/L	
SLE0204-IBL6	Silver-107	0.00200	0.022	0.200	ug/L	
SLE0204-CCB7	Chromium-52	-0.00900	0.26	0.500	ug/L	
SLE0204-CCB7	Chromium-53	0.0110	0.239	0.500	ug/L	
SLE0204-CCB7	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0204-CCB7	Silver-107	0.00300	0.022	0.200	ug/L	
SLE0204-IBL7	Chromium-52	-0.0510	0.26	0.500	ug/L	
SLE0204-IBL7	Chromium-53	-0.0130	0.239	0.500	ug/L	
SLE0204-IBL7	Lead-208	0.00	0.0513	0.100	ug/L	
SLE0204-IBL7	Silver-107	0.00200	0.022	0.200	ug/L	
SLE0204-CCB8	Chromium-52	-0.0260	0.26	0.500	ug/L	
SLE0204-CCB8	Chromium-53	-0.00500	0.239	0.500	ug/L	
SLE0204-CCB8	Lead-208	0.00	0.0513	0.100	ug/L	
SLE0204-CCB8	Silver-107	0.00200	0.022	0.200	ug/L	
SLE0204-IBL8	Chromium-52	0.0300	0.26	0.500	ug/L	
SLE0204-IBL8	Chromium-53	0.0250	0.239	0.500	ug/L	
SLE0204-IBL8	Lead-208	0.275	0.0513	0.100	ug/L	
SLE0204-IBL8	Silver-107	0.00800	0.022	0.200	ug/L	
SLE0204-CCB9	Chromium-52	-0.0280	0.26	0.500	ug/L	
SLE0204-CCB9	Chromium-53	-0.0110	0.239	0.500	ug/L	
SLE0204-CCB9	Lead-208	0.00700	0.0513	0.100	ug/L	

INSTRUMENT BLANKS
EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0204

SDG: 23C0071
Project: AOC5 MR Phase 1
Calibration: GE00040
Date Analyzed: 05/10/23 23:28

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0204-CCB9	Silver-107	0.00300	0.022	0.200	ug/L	
SLE0204-IBL9	Chromium-52	-0.0200	0.26	0.500	ug/L	
SLE0204-IBL9	Chromium-53	-0.00900	0.239	0.500	ug/L	
SLE0204-IBL9	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0204-IBL9	Silver-107	-0.00100	0.022	0.200	ug/L	
SLE0204-CCBA	Chromium-52	-0.0330	0.26	0.500	ug/L	
SLE0204-CCBA	Chromium-53	-0.00800	0.239	0.500	ug/L	
SLE0204-CCBA	Lead-208	0.00200	0.0513	0.100	ug/L	
SLE0204-CCBA	Silver-107	0.00200	0.022	0.200	ug/L	
SLE0204-IBLA	Chromium-52	-0.0310	0.26	0.500	ug/L	
SLE0204-IBLA	Chromium-53	-0.0120	0.239	0.500	ug/L	
SLE0204-IBLA	Lead-208	0.00400	0.0513	0.100	ug/L	
SLE0204-IBLA	Silver-107	-0.00100	0.022	0.200	ug/L	
SLE0204-CCBB	Chromium-52	-0.0160	0.26	0.500	ug/L	
SLE0204-CCBB	Chromium-53	-0.0100	0.239	0.500	ug/L	
SLE0204-CCBB	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0204-CCBB	Silver-107	0.00100	0.022	0.200	ug/L	
SLE0204-CCBC	Chromium-52	0.0180	0.26	0.500	ug/L	
SLE0204-CCBC	Chromium-53	-0.00300	0.239	0.500	ug/L	
SLE0204-CCBC	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0204-CCBC	Silver-107	0.00300	0.022	0.200	ug/L	
SLE0204-IBLB	Chromium-52	-0.0440	0.26	0.500	ug/L	
SLE0204-IBLB	Chromium-53	0.00800	0.239	0.500	ug/L	
SLE0204-IBLB	Lead-208	0.00	0.0513	0.100	ug/L	
SLE0204-IBLB	Silver-107	-0.00100	0.022	0.200	ug/L	
SLE0204-CCBD	Chromium-52	-0.0360	0.26	0.500	ug/L	
SLE0204-CCBD	Chromium-53	-0.00800	0.239	0.500	ug/L	
SLE0204-CCBD	Lead-208	-0.00300	0.0513	0.100	ug/L	
SLE0204-CCBD	Silver-107	0.00100	0.022	0.200	ug/L	
SLE0204-IBLC	Chromium-52	0.0230	0.26	0.500	ug/L	
SLE0204-IBLC	Chromium-53	-0.00900	0.239	0.500	ug/L	
SLE0204-IBLC	Lead-208	-0.00100	0.0513	0.100	ug/L	
SLE0204-IBLC	Silver-107	0.00	0.022	0.200	ug/L	
SLE0204-IBLD	Chromium-52	-0.0450	0.26	0.500	ug/L	
SLE0204-IBLD	Chromium-53	-0.00600	0.239	0.500	ug/L	
SLE0204-IBLD	Lead-208	-0.00100	0.0513	0.100	ug/L	

INSTRUMENT BLANKS
EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0204

SDG: 23C0071
Project: AOC5 MR Phase 1
Calibration: GE00040
Date Analyzed: 05/11/23 03:20

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0204-IBLD	Silver-107	-0.00100	0.022	0.200	ug/L	
SLE0204-CCBE	Chromium-52	-0.0500	0.26	0.500	ug/L	
SLE0204-CCBE	Chromium-53	-0.0140	0.239	0.500	ug/L	
SLE0204-CCBE	Lead-208	-0.00200	0.0513	0.100	ug/L	
SLE0204-CCBE	Silver-107	0.00200	0.022	0.200	ug/L	
SLE0204-IBLE	Chromium-52	-0.0460	0.26	0.500	ug/L	
SLE0204-IBLE	Chromium-53	-0.00500	0.239	0.500	ug/L	
SLE0204-IBLE	Lead-208	-0.00300	0.0513	0.100	ug/L	
SLE0204-IBLE	Silver-107	0.00	0.022	0.200	ug/L	
SLE0204-IBLF	Chromium-52	-0.0490	0.26	0.500	ug/L	
SLE0204-IBLF	Chromium-53	-0.00100	0.239	0.500	ug/L	
SLE0204-IBLF	Lead-208	-0.00300	0.0513	0.100	ug/L	
SLE0204-IBLF	Silver-107	0.00	0.022	0.200	ug/L	
SLE0204-CCBF	Chromium-52	-0.0610	0.26	0.500	ug/L	
SLE0204-CCBF	Chromium-53	-0.00600	0.239	0.500	ug/L	
SLE0204-CCBF	Lead-208	-0.00300	0.0513	0.100	ug/L	
SLE0204-CCBF	Silver-107	0.00100	0.022	0.200	ug/L	
SLE0204-CCBG	Chromium-52	0.0140	0.26	0.500	ug/L	
SLE0204-CCBG	Chromium-53	-0.00900	0.239	0.500	ug/L	
SLE0204-CCBG	Lead-208	-0.00300	0.0513	0.100	ug/L	
SLE0204-CCBG	Silver-107	0.00100	0.022	0.200	ug/L	
SLE0204-IBLG	Chromium-52	0.0210	0.26	0.500	ug/L	
SLE0204-IBLG	Chromium-53	0.00400	0.239	0.500	ug/L	
SLE0204-IBLG	Lead-208	0.00	0.0513	0.100	ug/L	
SLE0204-IBLG	Silver-107	0.00300	0.022	0.200	ug/L	
SLE0204-CCBH	Chromium-52	-0.00600	0.26	0.500	ug/L	
SLE0204-CCBH	Chromium-53	-0.00800	0.239	0.500	ug/L	
SLE0204-CCBH	Lead-208	-0.00300	0.0513	0.100	ug/L	
SLE0204-CCBH	Silver-107	0.00100	0.022	0.200	ug/L	
SLE0204-IBLH	Chromium-52	0.0130	0.26	0.500	ug/L	
SLE0204-IBLH	Chromium-53	0.00100	0.239	0.500	ug/L	
SLE0204-IBLH	Lead-208	-0.00400	0.0513	0.100	ug/L	
SLE0204-IBLH	Silver-107	-0.00100	0.022	0.200	ug/L	
SLE0204-CCBI	Chromium-52	0.00400	0.26	0.500	ug/L	
SLE0204-CCBI	Chromium-53	0.00100	0.239	0.500	ug/L	
SLE0204-CCBI	Lead-208	-0.00300	0.0513	0.100	ug/L	

INSTRUMENT BLANKS
EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0204

SDG: 23C0071
Project: AOC5 MR Phase 1
Calibration: GE00040
Date Analyzed: 05/11/23 06:42

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0204-CCBI	Silver-107	0.00100	0.022	0.200	ug/L	
SLE0204-IBLI	Chromium-52	0.0160	0.26	0.500	ug/L	
SLE0204-IBLI	Chromium-53	0.00500	0.239	0.500	ug/L	
SLE0204-IBLI	Lead-208	-0.00300	0.0513	0.100	ug/L	
SLE0204-IBLI	Silver-107	-0.00100	0.022	0.200	ug/L	
SLE0204-IBLJ	Chromium-52	0.00900	0.26	0.500	ug/L	
SLE0204-IBLJ	Chromium-53	-0.00200	0.239	0.500	ug/L	
SLE0204-IBLJ	Lead-208	-0.00300	0.0513	0.100	ug/L	
SLE0204-IBLJ	Silver-107	-0.00100	0.022	0.200	ug/L	
SLE0204-CCBJ	Chromium-52	0.0140	0.26	0.500	ug/L	
SLE0204-CCBJ	Chromium-53	-0.00300	0.239	0.500	ug/L	
SLE0204-CCBJ	Lead-208	-0.00300	0.0513	0.100	ug/L	
SLE0204-CCBJ	Silver-107	0.00100	0.022	0.200	ug/L	

INSTRUMENT BLANKS
EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0209

SDG: 23C0071
Project: AOC5 MR Phase 1
Calibration: GE00042
Date Analyzed: 05/11/23 14:29

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0209-IBL1	Chromium-52	0.0410	0.26	0.500	ug/L	
SLE0209-IBL1	Chromium-53	0.00600	0.239	0.500	ug/L	
SLE0209-IBL1	Lead-208	0.0180	0.0513	0.100	ug/L	
SLE0209-IBL1	Silver-107	0.0350	0.022	0.200	ug/L	
SLE0209-ICB1	Chromium-52	0.0310	0.26	0.500	ug/L	
SLE0209-ICB1	Chromium-53	-0.00700	0.239	0.500	ug/L	
SLE0209-ICB1	Lead-208	-0.00100	0.0513	0.100	ug/L	
SLE0209-ICB1	Silver-107	0.00400	0.022	0.200	ug/L	
SLE0209-CCB1	Chromium-52	0.00200	0.26	0.500	ug/L	
SLE0209-CCB1	Chromium-53	-0.0120	0.239	0.500	ug/L	
SLE0209-CCB1	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0209-CCB1	Silver-107	0.00300	0.022	0.200	ug/L	
SLE0209-IBL2	Chromium-52	0.0290	0.26	0.500	ug/L	
SLE0209-IBL2	Chromium-53	0.0330	0.239	0.500	ug/L	
SLE0209-IBL2	Lead-208	0.00700	0.0513	0.100	ug/L	
SLE0209-IBL2	Silver-107	0.00800	0.022	0.200	ug/L	
SLE0209-IBL3	Chromium-52	0.0330	0.26	0.500	ug/L	
SLE0209-IBL3	Chromium-53	0.0220	0.239	0.500	ug/L	
SLE0209-IBL3	Lead-208	0.00600	0.0513	0.100	ug/L	
SLE0209-IBL3	Silver-107	0.00300	0.022	0.200	ug/L	
SLE0209-CCB2	Chromium-52	0.0150	0.26	0.500	ug/L	
SLE0209-CCB2	Chromium-53	0.00100	0.239	0.500	ug/L	
SLE0209-CCB2	Lead-208	0.00200	0.0513	0.100	ug/L	
SLE0209-CCB2	Silver-107	0.00400	0.022	0.200	ug/L	
SLE0209-CCB3	Chromium-52	-0.0180	0.26	0.500	ug/L	
SLE0209-CCB3	Chromium-53	-0.00300	0.239	0.500	ug/L	
SLE0209-CCB3	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0209-CCB3	Silver-107	0.00200	0.022	0.200	ug/L	
SLE0209-IBL4	Chromium-52	0.140	0.26	0.500	ug/L	
SLE0209-IBL4	Chromium-53	0.0650	0.239	0.500	ug/L	
SLE0209-IBL4	Lead-208	0.00300	0.0513	0.100	ug/L	
SLE0209-IBL4	Silver-107	-0.00100	0.022	0.200	ug/L	
SLE0209-IBL5	Chromium-52	0.100	0.26	0.500	ug/L	
SLE0209-IBL5	Chromium-53	0.00700	0.239	0.500	ug/L	
SLE0209-IBL5	Lead-208	0.00300	0.0513	0.100	ug/L	

INSTRUMENT BLANKS
EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0209

SDG: 23C0071
Project: AOC5 MR Phase 1
Calibration: GE00042
Date Analyzed: 05/11/23 17:21

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0209-IBL5	Silver-107	-0.00200	0.022	0.200	ug/L	
SLE0209-CCB4	Chromium-52	0.00300	0.26	0.500	ug/L	
SLE0209-CCB4	Chromium-53	-0.00500	0.239	0.500	ug/L	
SLE0209-CCB4	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0209-CCB4	Silver-107	0.00100	0.022	0.200	ug/L	
SLE0209-IBL6	Lead-208	-0.00100	0.0513	0.100	ug/L	
SLE0209-CCB5	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0209-IBL7	Lead-208	0.00	0.0513	0.100	ug/L	
SLE0209-IBL8	Lead-208	0.00	0.0513	0.100	ug/L	
SLE0209-CCB6	Lead-208	0.00	0.0513	0.100	ug/L	
SLE0209-IBL9	Chromium-52	0.0410	0.26	0.500	ug/L	
SLE0209-IBL9	Chromium-53	0.00600	0.239	0.500	ug/L	
SLE0209-IBL9	Lead-208	0.00	0.0513	0.100	ug/L	
SLE0209-IBL9	Silver-107	-0.00200	0.022	0.200	ug/L	
SLE0209-IBLA	Chromium-52	0.0520	0.26	0.500	ug/L	
SLE0209-IBLA	Chromium-53	0.125	0.239	0.500	ug/L	
SLE0209-IBLA	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0209-IBLA	Silver-107	0.00	0.022	0.200	ug/L	
SLE0209-CCB7	Chromium-52	0.0560	0.26	0.500	ug/L	
SLE0209-CCB7	Chromium-53	0.0220	0.239	0.500	ug/L	
SLE0209-CCB7	Lead-208	0.0110	0.0513	0.100	ug/L	
SLE0209-CCB7	Silver-107	0.0100	0.022	0.200	ug/L	
SLE0209-CCB8	Chromium-52	-0.0190	0.26	0.500	ug/L	
SLE0209-CCB8	Chromium-53	-0.0160	0.239	0.500	ug/L	
SLE0209-CCB8	Lead-208	0.0100	0.0513	0.100	ug/L	
SLE0209-CCB8	Silver-107	0.00800	0.022	0.200	ug/L	
SLE0209-CCBA	Chromium-52	0.00900	0.26	0.500	ug/L	
SLE0209-CCBA	Chromium-53	0.0230	0.239	0.500	ug/L	
SLE0209-CCBA	Lead-208	0.0170	0.0513	0.100	ug/L	
SLE0209-CCBA	Silver-107	0.0220	0.022	0.200	ug/L	
SLE0209-IBLC	Chromium-52	0.0110	0.26	0.500	ug/L	
SLE0209-IBLC	Chromium-53	0.00200	0.239	0.500	ug/L	
SLE0209-IBLC	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0209-IBLC	Silver-107	0.00	0.022	0.200	ug/L	
SLE0209-IBLD	Chromium-52	-0.0200	0.26	0.500	ug/L	
SLE0209-IBLD	Chromium-53	-0.00800	0.239	0.500	ug/L	

INSTRUMENT BLANKS
EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0209

SDG: 23C0071
Project: AOC5 MR Phase 1
Calibration: GE00042
Date Analyzed: 05/11/23 20:49

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0209-IBLD	Lead-208	0.00200	0.0513	0.100	ug/L	
SLE0209-IBLD	Silver-107	0.00200	0.022	0.200	ug/L	
SLE0209-CCBB	Chromium-52	0.00	0.26	0.500	ug/L	
SLE0209-CCBB	Chromium-53	-0.00400	0.239	0.500	ug/L	
SLE0209-CCBB	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0209-CCBB	Silver-107	0.00200	0.022	0.200	ug/L	
SLE0209-IBLE	Chromium-52	-0.0100	0.26	0.500	ug/L	
SLE0209-IBLE	Chromium-53	-0.0140	0.239	0.500	ug/L	
SLE0209-IBLE	Lead-208	0.00300	0.0513	0.100	ug/L	
SLE0209-IBLE	Silver-107	-0.00100	0.022	0.200	ug/L	
SLE0209-IBLF	Chromium-52	-0.0240	0.26	0.500	ug/L	
SLE0209-IBLF	Chromium-53	-0.0170	0.239	0.500	ug/L	
SLE0209-IBLF	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0209-IBLF	Silver-107	0.00	0.022	0.200	ug/L	
SLE0209-CCBC	Chromium-52	-0.0270	0.26	0.500	ug/L	
SLE0209-CCBC	Chromium-53	-0.0200	0.239	0.500	ug/L	
SLE0209-CCBC	Lead-208	0.00300	0.0513	0.100	ug/L	
SLE0209-CCBC	Silver-107	0.00200	0.022	0.200	ug/L	
SLE0209-CCBD	Chromium-52	-0.00400	0.26	0.500	ug/L	
SLE0209-CCBD	Chromium-53	0.00700	0.239	0.500	ug/L	
SLE0209-CCBD	Lead-208	0.00	0.0513	0.100	ug/L	
SLE0209-CCBD	Silver-107	0.00	0.022	0.200	ug/L	
SLE0209-IBLG	Chromium-52	0.0110	0.26	0.500	ug/L	
SLE0209-IBLG	Chromium-53	-0.00200	0.239	0.500	ug/L	
SLE0209-IBLG	Lead-208	-0.00200	0.0513	0.100	ug/L	
SLE0209-IBLG	Silver-107	-0.00200	0.022	0.200	ug/L	
SLE0209-CCBE	Chromium-52	-0.00400	0.26	0.500	ug/L	
SLE0209-CCBE	Chromium-53	0.00	0.239	0.500	ug/L	
SLE0209-CCBE	Lead-208	0.00	0.0513	0.100	ug/L	
SLE0209-CCBE	Silver-107	0.00	0.022	0.200	ug/L	
SLE0209-IBLH	Chromium-52	0.00400	0.26	0.500	ug/L	
SLE0209-IBLH	Chromium-53	-0.00900	0.239	0.500	ug/L	
SLE0209-IBLH	Lead-208	-0.00200	0.0513	0.100	ug/L	
SLE0209-IBLH	Silver-107	-0.00200	0.022	0.200	ug/L	
SLE0209-CCBF	Chromium-52	0.00100	0.26	0.500	ug/L	
SLE0209-CCBF	Chromium-53	0.00	0.239	0.500	ug/L	

INSTRUMENT BLANKS
EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0209

SDG: 23C0071
Project: AOC5 MR Phase 1
Calibration: GE00042
Date Analyzed: 05/12/23 00:09

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0209-CCBF	Lead-208	0.00	0.0513	0.100	ug/L	
SLE0209-CCBF	Silver-107	0.00	0.022	0.200	ug/L	
SLE0209-IBLI	Chromium-52	0.0220	0.26	0.500	ug/L	
SLE0209-IBLI	Chromium-53	-0.00400	0.239	0.500	ug/L	
SLE0209-IBLI	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0209-IBLI	Silver-107	-0.00200	0.022	0.200	ug/L	
SLE0209-CCBG	Chromium-52	-0.00400	0.26	0.500	ug/L	
SLE0209-CCBG	Chromium-53	-0.00800	0.239	0.500	ug/L	
SLE0209-CCBG	Lead-208	0.00	0.0513	0.100	ug/L	
SLE0209-CCBG	Silver-107	0.00	0.022	0.200	ug/L	
SLE0209-IBLJ	Chromium-52	0.00300	0.26	0.500	ug/L	
SLE0209-IBLJ	Chromium-53	-0.0120	0.239	0.500	ug/L	
SLE0209-IBLJ	Lead-208	0.00200	0.0513	0.100	ug/L	
SLE0209-IBLJ	Silver-107	0.00	0.022	0.200	ug/L	
SLE0209-CCBH	Chromium-52	0.0140	0.26	0.500	ug/L	
SLE0209-CCBH	Chromium-53	0.00200	0.239	0.500	ug/L	
SLE0209-CCBH	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0209-CCBH	Silver-107	0.00	0.022	0.200	ug/L	
SLE0209-IBLK	Chromium-52	0.00700	0.26	0.500	ug/L	
SLE0209-IBLK	Chromium-53	-0.00700	0.239	0.500	ug/L	
SLE0209-IBLK	Lead-208	0.00	0.0513	0.100	ug/L	
SLE0209-IBLK	Silver-107	-0.00100	0.022	0.200	ug/L	
SLE0209-IBLL	Chromium-52	-0.00300	0.26	0.500	ug/L	
SLE0209-IBLL	Chromium-53	-0.00600	0.239	0.500	ug/L	
SLE0209-IBLL	Lead-208	-0.00100	0.0513	0.100	ug/L	
SLE0209-IBLL	Silver-107	-0.00200	0.022	0.200	ug/L	
SLE0209-CCBI	Chromium-52	-0.0150	0.26	0.500	ug/L	
SLE0209-CCBI	Chromium-53	-0.00600	0.239	0.500	ug/L	
SLE0209-CCBI	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0209-CCBI	Silver-107	0.00	0.022	0.200	ug/L	
SLE0209-CCBJ	Chromium-52	-0.0240	0.26	0.500	ug/L	
SLE0209-CCBJ	Chromium-53	-0.00300	0.239	0.500	ug/L	
SLE0209-CCBJ	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0209-CCBJ	Silver-107	0.00200	0.022	0.200	ug/L	
SLE0209-IBLM	Chromium-52	-0.0150	0.26	0.500	ug/L	
SLE0209-IBLM	Chromium-53	-0.00600	0.239	0.500	ug/L	

INSTRUMENT BLANKS
EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0209

SDG: 23C0071
Project: AOC5 MR Phase 1
Calibration: GE00042
Date Analyzed: 05/12/23 03:46

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0209-IBLM	Lead-208	-0.00100	0.0513	0.100	ug/L	
SLE0209-IBLM	Silver-107	0.00	0.022	0.200	ug/L	
SLE0209-IBLN	Chromium-52	0.0370	0.26	0.500	ug/L	
SLE0209-IBLN	Chromium-53	0.00500	0.239	0.500	ug/L	
SLE0209-IBLN	Lead-208	-0.00100	0.0513	0.100	ug/L	
SLE0209-IBLN	Silver-107	-0.00100	0.022	0.200	ug/L	
SLE0209-CCBK	Chromium-52	-0.00600	0.26	0.500	ug/L	
SLE0209-CCBK	Chromium-53	0.00200	0.239	0.500	ug/L	
SLE0209-CCBK	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0209-CCBK	Silver-107	0.00200	0.022	0.200	ug/L	
SLE0209-IBLO	Chromium-52	0.0140	0.26	0.500	ug/L	
SLE0209-IBLO	Chromium-53	0.00500	0.239	0.500	ug/L	
SLE0209-IBLO	Lead-208	-0.00100	0.0513	0.100	ug/L	
SLE0209-IBLO	Silver-107	0.00	0.022	0.200	ug/L	
SLE0209-CCBL	Chromium-52	-0.0270	0.26	0.500	ug/L	
SLE0209-CCBL	Chromium-53	0.00100	0.239	0.500	ug/L	
SLE0209-CCBL	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0209-CCBL	Silver-107	0.00100	0.022	0.200	ug/L	
SLE0209-IBLP	Chromium-52	0.0420	0.26	0.500	ug/L	
SLE0209-IBLP	Chromium-53	0.566	0.239	0.500	ug/L	
SLE0209-IBLP	Lead-208	-0.00100	0.0513	0.100	ug/L	
SLE0209-IBLP	Silver-107	0.00	0.022	0.200	ug/L	
SLE0209-CCBM	Chromium-52	-0.0220	0.26	0.500	ug/L	
SLE0209-CCBM	Chromium-53	0.321	0.239	0.500	ug/L	
SLE0209-CCBM	Lead-208	0.00100	0.0513	0.100	ug/L	
SLE0209-CCBM	Silver-107	0.00200	0.022	0.200	ug/L	
SLE0209-IBLQ	Chromium-52	-0.0420	0.26	0.500	ug/L	
SLE0209-IBLQ	Chromium-53	0.192	0.239	0.500	ug/L	
SLE0209-IBLQ	Lead-208	-0.00200	0.0513	0.100	ug/L	
SLE0209-IBLQ	Silver-107	-0.00100	0.022	0.200	ug/L	
SLE0209-IBLR	Chromium-52	0.0530	0.26	0.500	ug/L	
SLE0209-IBLR	Chromium-53	0.841	0.239	0.500	ug/L	
SLE0209-IBLR	Lead-208	0.00400	0.0513	0.100	ug/L	
SLE0209-IBLR	Silver-107	0.00100	0.022	0.200	ug/L	
SLE0209-CCBN	Chromium-52	-0.0620	0.26	0.500	ug/L	
SLE0209-CCBN	Chromium-53	0.364	0.239	0.500	ug/L	

INSTRUMENT BLANKS
EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0209

SDG: 23C0071
Project: AOC5 MR Phase 1
Calibration: GE00042
Date Analyzed: 05/12/23 07:11

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0209-CCBN	Lead-208	0.00	0.0513	0.100	ug/L	
SLE0209-CCBN	Silver-107	0.00200	0.022	0.200	ug/L	
SLE0209-CCBO	Chromium-52	-0.00500	0.26	0.500	ug/L	
SLE0209-CCBO	Chromium-53	-0.0460	0.239	0.500	ug/L	
SLE0209-CCBO	Lead-208	0.00	0.0513	0.100	ug/L	
SLE0209-CCBO	Silver-107	0.00100	0.022	0.200	ug/L	
SLE0209-IBLS	Chromium-52	-0.0170	0.26	0.500	ug/L	
SLE0209-IBLS	Chromium-53	-0.157	0.239	0.500	ug/L	
SLE0209-IBLS	Lead-208	-0.00300	0.0513	0.100	ug/L	
SLE0209-IBLS	Silver-107	-0.00100	0.022	0.200	ug/L	
SLE0209-CCBP	Chromium-52	-0.0330	0.26	0.500	ug/L	
SLE0209-CCBP	Chromium-53	-0.183	0.239	0.500	ug/L	
SLE0209-CCBP	Lead-208	-0.00100	0.0513	0.100	ug/L	
SLE0209-CCBP	Silver-107	0.00	0.022	0.200	ug/L	

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLE0017
Instrument: ICPMS1
Calibration: GE00007

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
CAL 0	SLE0017-CAL1	XDT_m1230501-013	NA	05/01/23 15:09
CAL 1 - LOW CHECK	SLE0017-CAL2	XDT_m1230501-014	NA	05/01/23 15:14
CAL 2	SLE0017-CAL3	XDT_m1230501-015	NA	05/01/23 15:19
CAL 3	SLE0017-CAL4	XDT_m1230501-016	NA	05/01/23 15:24
CAL 4	SLE0017-CAL5	XDT_m1230501-017	NA	05/01/23 15:29
CAL 5	SLE0017-CAL6	XDT_m1230501-018	NA	05/01/23 15:36
RINSE	SLE0017-IBL1	XDT_m1230501-019	NA	05/01/23 15:43
Initial Cal Check	SLE0017-ICV1	XDT_m1230501-021	NA	05/01/23 15:49
Initial Cal Blank	SLE0017-ICB1	XDT_m1230501-022	NA	05/01/23 15:57
Calibration Check	SLE0017-CCV1	XDT_m1230501-023	NA	05/01/23 16:02
Calibration Blank	SLE0017-CCB1	XDT_m1230501-024	NA	05/01/23 16:09
Instrument RL Check	SLE0017-CRL1	XDT_m1230501-027	NA	05/01/23 16:29
Interference Check A	SLE0017-IFA1	XDT_m1230501-028	NA	05/01/23 16:34
Interference Check B	SLE0017-IFB1	XDT_m1230501-029	NA	05/01/23 16:38
LR200	SLE0017-HCV1	XDT_m1230501-030	NA	05/01/23 16:43
LR300	SLE0017-HCV2	XDT_m1230501-031	NA	05/01/23 16:48
Instrument Blank	SLE0017-IBL2	XDT_m1230501-032	NA	05/01/23 16:55
Calibration Check	SLE0017-CCV2	XDT_m1230501-033	NA	05/01/23 17:02
Calibration Blank	SLE0017-CCB2	XDT_m1230501-034	NA	05/01/23 17:09
ZZZZZ	BLD0785-BLK2	XDT_m1230501-037	Water	05/01/23 17:26
ZZZZZ	BLD0785-BS2	XDT_m1230501-038	Water	05/01/23 17:31
ZZZZZ	23C0678-09	XDT_m1230501-042	Water	05/01/23 17:50
ZZZZZ	23C0678-08	XDT_m1230501-043	Water	05/01/23 17:55
Instrument Blank	SLE0017-IBL3	XDT_m1230501-044	NA	05/01/23 18:00
Calibration Check	SLE0017-CCV3	XDT_m1230501-045	NA	05/01/23 18:05
Calibration Blank	SLE0017-CCB3	XDT_m1230501-046	NA	05/01/23 18:12
ZZZZZ	23C0690-01	XDT_m1230501-052	Water	05/01/23 18:43
ZZZZZ	23C0690-01	XDT_m1230501-052	Water	05/01/23 18:43
ZZZZZ	23C0690-01	XDT_m1230501-052	Water	05/01/23 18:43

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLE0017

SDG: 23C0071
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GE00007

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	23C0690-01	XDT_m1230501-052	Water	05/01/23 18:43
ZZZZZ	23C0690-01	XDT_m1230501-052	Water	05/01/23 18:43
ZZZZZ	BLD0292-DUP2	XDT_m1230501-053	Water	05/01/23 18:49
ZZZZZ	BLD0292-MS2	XDT_m1230501-054	Water	05/01/23 18:53
ZZZZZ	BLD0292-MSD2	XDT_m1230501-055	Water	05/01/23 18:58
Instrument Blank	SLE0017-IBL4	XDT_m1230501-056	NA	05/01/23 19:03
Calibration Check	SLE0017-CCV4	XDT_m1230501-057	NA	05/01/23 19:08
Calibration Blank	SLE0017-CCB4	XDT_m1230501-058	NA	05/01/23 19:15
ZZZZZ	23C0584-02	XDT_m1230501-059	Water	05/01/23 19:21
ZZZZZ	23C0584-02	XDT_m1230501-059	Water	05/01/23 19:21
ZZZZZ	23C0584-02	XDT_m1230501-059	Water	05/01/23 19:21
ZZZZZ	23C0584-02	XDT_m1230501-059	Water	05/01/23 19:21
ZZZZZ	23D0525-10	XDT_m1230501_PRE-066	Water	05/01/23 19:59
ZZZZZ	23D0525-11	XDT_m1230501_PRE-067	Water	05/01/23 20:04
Instrument Blank	SLE0017-IBL5	XDT_m1230501-068	NA	05/01/23 20:09
Calibration Check	SLE0017-CCV5	XDT_m1230501-069	NA	05/01/23 20:13
Calibration Blank	SLE0017-CCB5	XDT_m1230501-070	NA	05/01/23 20:21
Calibration Check	SLE0017-CCV6	XDT_m1230501-073	NA	05/01/23 20:42
Calibration Blank	SLE0017-CCB6	XDT_m1230501-074	NA	05/01/23 20:49
ZZZZZ	23D0525-09	XDT_m1230501-076	Water	05/01/23 21:04
ZZZZZ	23D0525-12	XDT_m1230501-077	Water	05/01/23 21:08
Instrument Blank	SLE0017-IBL6	XDT_m1230501-078	NA	05/01/23 21:14
ZZZZZ	23D0525-08	XDT_m1230501-079	Water	05/01/23 21:19
ZZZZZ	23D0525-07	XDT_m1230501-080	Water	05/01/23 21:24
ZZZZZ	BLD0785-DUP2	XDT_m1230501-081	Water	05/01/23 21:29
ZZZZZ	BLD0785-MS2	XDT_m1230501-082	Water	05/01/23 21:34
ZZZZZ	BLD0785-MSD2	XDT_m1230501-083	Water	05/01/23 21:40
Instrument Blank	SLE0017-IBL7	XDT_m1230501-084	NA	05/01/23 21:44
Calibration Check	SLE0017-CCV7	XDT_m1230501-085	NA	05/01/23 21:49

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLE0017

SDG: 23C0071
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GE00007

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Calibration Blank	SLE0017-CCB7	XDT_m1230501-086	NA	05/01/23 21:56
ZZZZZ	23C0584-01	XDT_m1230501-093	Water	05/01/23 22:28
ZZZZZ	23C0584-01	XDT_m1230501-093	Water	05/01/23 22:28
ZZZZZ	BLD0180-DUP3	XDT_m1230501-094	Water	05/01/23 22:33
ZZZZZ	BLD0180-MS3	XDT_m1230501-095	Water	05/01/23 22:39
Instrument Blank	SLE0017-IBL8	XDT_m1230501-096	NA	05/01/23 22:43
Calibration Check	SLE0017-CCV8	XDT_m1230501-097	NA	05/01/23 22:48
Calibration Blank	SLE0017-CCB8	XDT_m1230501-098	NA	05/01/23 22:55
Instrument Blank	SLE0017-IBL9	XDT_m1230501-108	NA	05/01/23 23:42
Calibration Check	SLE0017-CCV9	XDT_m1230501-109	NA	05/01/23 23:47
Calibration Blank	SLE0017-CCB9	XDT_m1230501-110	NA	05/01/23 23:54
Instrument Blank	SLE0017-IBLA	XDT_m1230501-120	NA	05/02/23 00:44
Calibration Check	SLE0017-CCVA	XDT_m1230501-121	NA	05/02/23 00:49
Calibration Blank	SLE0017-CCBA	XDT_m1230501-122	NA	05/02/23 00:56
Calibration Check	SLE0017-CCVB	XDT_m1230501-124	NA	05/02/23 01:05
Calibration Blank	SLE0017-CCBB	XDT_m1230501-125	NA	05/02/23 01:12
ZZZZZ	23C0584-04	XDT_m1230501-126	Water	05/02/23 01:17
ZZZZZ	23C0584-03	XDT_m1230501-127	Water	05/02/23 01:22
ZZZZZ	23C0584-03	XDT_m1230501-127	Water	05/02/23 01:22
ZZZZZ	23C0584-13	XDT_m1230501-128	Water	05/02/23 01:26
ZZZZZ	23C0584-13	XDT_m1230501-128	Water	05/02/23 01:26
ZZZZZ	23C0584-05	XDT_m1230501-129	Water	05/02/23 01:31
ZZZZZ	23C0584-05	XDT_m1230501-129	Water	05/02/23 01:31
ZZZZZ	23C0584-07	XDT_m1230501-130	Water	05/02/23 01:35
ZZZZZ	23C0584-07	XDT_m1230501-130	Water	05/02/23 01:35
ZZZZZ	23C0584-09	XDT_m1230501-131	Water	05/02/23 01:40
ZZZZZ	23C0584-09	XDT_m1230501-131	Water	05/02/23 01:40
ZZZZZ	23C0584-11	XDT_m1230501-132	Water	05/02/23 01:46
ZZZZZ	23C0584-11	XDT_m1230501-132	Water	05/02/23 01:46

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLE0017
SDG: 23C0071
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GE00007

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Instrument Blank	SLE0017-IBLB	XDT_m1230501-135	NA	05/02/23 02:03
Calibration Check	SLE0017-CCVC	XDT_m1230501-136	NA	05/02/23 02:07
Calibration Blank	SLE0017-CCBC	XDT_m1230501-137	NA	05/02/23 02:15
ZZZZZ	23C0584-14	XDT_m1230501-138	Water	05/02/23 02:19
ZZZZZ	23C0584-15	XDT_m1230501-139	Water	05/02/23 02:24
ZZZZZ	23C0584-16	XDT_m1230501-140	Water	05/02/23 02:28
ZZZZZ	23C0584-17	XDT_m1230501-141	Water	05/02/23 02:33
ZZZZZ	23C0584-18	XDT_m1230501-142	Water	05/02/23 02:37
ZZZZZ	23C0584-19	XDT_m1230501-143	Water	05/02/23 02:42
ZZZZZ	23C0584-20	XDT_m1230501-144	Water	05/02/23 02:48
Instrument Blank	SLE0017-IBLC	XDT_m1230501-147	NA	05/02/23 03:05
Calibration Check	SLE0017-CCVD	XDT_m1230501-148	NA	05/02/23 03:10
Calibration Blank	SLE0017-CCBD	XDT_m1230501-149	NA	05/02/23 03:17
ZZZZZ	BLD0396-BLK1	XDT_m1230501-150	Solid	05/02/23 03:21
ZZZZZ	BLD0396-BS1	XDT_m1230501-151	Solid	05/02/23 03:26
ZZZZZ	23D0062-02	XDT_m1230501-152	Water	05/02/23 03:31
ZZZZZ	23D0062-04	XDT_m1230501-153	Water	05/02/23 03:35
ZZZZZ	23D0062-06	XDT_m1230501-154	Water	05/02/23 03:40
ZZZZZ	23D0062-08	XDT_m1230501-155	Water	05/02/23 03:44
Instrument Blank	SLE0017-IBLD	XDT_m1230501-159	NA	05/02/23 04:04
Calibration Check	SLE0017-CCVE	XDT_m1230501-160	NA	05/02/23 04:08
Calibration Blank	SLE0017-CCBE	XDT_m1230501-161	NA	05/02/23 04:16
Blank	BLD0452-BLK1	XDT_m1230501-162	Solid	05/02/23 04:20
LCS	BLD0452-BS1	XDT_m1230501-163	Solid	05/02/23 04:25
ZZZZZ	23C0658-01	XDT_m1230501-164	Water	05/02/23 04:29
ZZZZZ	23C0658-05	XDT_m1230501-165	Water	05/02/23 04:34
ZZZZZ	23C0690-07	XDT_m1230501-166	Water	05/02/23 04:40
Instrument Blank	SLE0017-IBLE	XDT_m1230501-167	NA	05/02/23 04:45
Instrument Blank	SLE0017-IBLF	XDT_m1230501-171	NA	05/02/23 05:04

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLE0017

SDG: 23C0071
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GE00007

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Calibration Check	SLE0017-CCVF	XDT_m1230501-172	NA	05/02/23 05:08
Calibration Blank	SLE0017-CCBF	XDT_m1230501-173	NA	05/02/23 05:16
Calibration Check	SLE0017-CCVG	XDT_m1230501-175	NA	05/02/23 05:25
Calibration Blank	SLE0017-CCBG	XDT_m1230501-176	NA	05/02/23 05:32
ZZZZZ	BLD0504-BLK1	XDT_m1230501-177	Solid	05/02/23 05:36
ZZZZZ	BLD0504-BS1	XDT_m1230501-178	Solid	05/02/23 05:41
ZZZZZ	23C0715-03	XDT_m1230501-179	Water	05/02/23 05:46
ZZZZZ	23C0715-05	XDT_m1230501-180	Water	05/02/23 05:51
ZZZZZ	23C0715-07	XDT_m1230501-181	Water	05/02/23 05:56
Instrument Blank	SLE0017-IBLG	XDT_m1230501-182	NA	05/02/23 06:01
Instrument Blank	SLE0017-IBLH	XDT_m1230501-186	NA	05/02/23 06:20
Calibration Check	SLE0017-CCVH	XDT_m1230501-187	NA	05/02/23 06:24
Calibration Blank	SLE0017-CCBH	XDT_m1230501-188	NA	05/02/23 06:32
Instrument Blank	SLE0017-IBLI	XDT_m1230501-192	NA	05/02/23 06:50
ZZZZZ	23A0417-01	XDT_m1230501-193	Solid	05/02/23 06:55
ZZZZZ	23A0417-01	XDT_m1230501-193	Solid	05/02/23 06:55
ZZZZZ	23A0417-01	XDT_m1230501-193	Solid	05/02/23 06:55
ZZZZZ	BLD0396-DUP1	XDT_m1230501-194	Solid	05/02/23 06:59
ZZZZZ	BLD0396-MS1	XDT_m1230501-195	Solid	05/02/23 07:04
ZZZZZ	BLD0396-MSD1	XDT_m1230501-196	Solid	05/02/23 07:09
Instrument Blank	SLE0017-IBLJ	XDT_m1230501-198	NA	05/02/23 07:18
Calibration Check	SLE0017-CCVI	XDT_m1230501-199	NA	05/02/23 07:22
Calibration Blank	SLE0017-CCBI	XDT_m1230501-200	NA	05/02/23 07:29
Instrument Blank	SLE0017-IBLK	XDT_m1230501-204	NA	05/02/23 07:48
ZZZZZ	23A0419-01	XDT_m1230501-205	Solid	05/02/23 07:53
ZZZZZ	23A0419-01	XDT_m1230501-205	Solid	05/02/23 07:53
ZZZZZ	23A0419-01	XDT_m1230501-205	Solid	05/02/23 07:53
Instrument Blank	SLE0017-IBLL	XDT_m1230501-210	NA	05/02/23 08:15
Calibration Check	SLE0017-CCVJ	XDT_m1230501-211	NA	05/02/23 08:20

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLE0017

SDG: 23C0071
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GE00007

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Calibration Blank	SLE0017-CCBJ	XDT_m1230501-212	NA	05/02/23 08:27
Instrument Blank	SLE0017-IBLM	XDT_m1230501-216	NA	05/02/23 08:46
ZZZZZ	23A0455-01	XDT_m1230501-217	Solid	05/02/23 08:50
ZZZZZ	23A0455-01	XDT_m1230501-217	Solid	05/02/23 08:50
ZZZZZ	23A0455-01	XDT_m1230501-217	Solid	05/02/23 08:50
ZZZZZ	BLD0504-DUP1	XDT_m1230501-218	Solid	05/02/23 08:55
ZZZZZ	BLD0504-MS1	XDT_m1230501-219	Solid	05/02/23 08:59
ZZZZZ	BLD0504-MSD1	XDT_m1230501-220	Solid	05/02/23 09:04
ZZZZZ	BLD0504-PS1	XDT_m1230501-221	Solid	05/02/23 09:08
Instrument Blank	SLE0017-IBLN	XDT_m1230501-222	NA	05/02/23 09:13
Calibration Check	SLE0017-CCVK	XDT_m1230501-223	NA	05/02/23 09:18
Calibration Blank	SLE0017-CCBK	XDT_m1230501-224	NA	05/02/23 09:25
Instrument Blank	SLE0017-IBLO	XDT_m1230501-234	NA	05/02/23 10:11
Calibration Check	SLE0017-CCVL	XDT_m1230501-235	NA	05/02/23 10:15
Calibration Blank	SLE0017-CCBL	XDT_m1230501-236	NA	05/02/23 10:22

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLE0043
Instrument: ICPMS1
Calibration: GE00013

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
CAL 0	SLE0043-CAL1	XDT_m1230502-013	NA	05/02/23 13:47
CAL 1 - LOW CHECK	SLE0043-CAL2	XDT_m1230502-014	NA	05/02/23 13:52
CAL 2	SLE0043-CAL3	XDT_m1230502-015	NA	05/02/23 13:56
CAL 3	SLE0043-CAL4	XDT_m1230502-016	NA	05/02/23 14:01
CAL 4	SLE0043-CAL5	XDT_m1230502-017	NA	05/02/23 14:06
CAL 5	SLE0043-CAL6	XDT_m1230502-018	NA	05/02/23 14:12
RINSE	SLE0043-IBL1	XDT_m1230502-019	NA	05/02/23 14:19
Initial Cal Check	SLE0043-ICV1	XDT_m1230502-021	NA	05/02/23 14:30
Initial Cal Blank	SLE0043-ICB1	XDT_m1230502-022	NA	05/02/23 14:37
Calibration Check	SLE0043-CCV1	XDT_m1230502-023	NA	05/02/23 14:42
Calibration Blank	SLE0043-CCB1	XDT_m1230502-024	NA	05/02/23 14:49
Instrument RL Check	SLE0043-CRL1	XDT_m1230502-026	NA	05/02/23 15:04
Interference Check A	SLE0043-IFA1	XDT_m1230502-027	NA	05/02/23 15:08
Interference Check B	SLE0043-IFB1	XDT_m1230502-028	NA	05/02/23 15:13
LR200	SLE0043-HCV1	XDT_m1230502-029	NA	05/02/23 15:18
LR300	SLE0043-HCV2	XDT_m1230502-030	NA	05/02/23 15:22
Instrument Blank	SLE0043-IBL2	XDT_m1230502-031	NA	05/02/23 15:31
Instrument Blank	SLE0043-IBL3	XDT_m1230502-032	NA	05/02/23 15:37
Calibration Check	SLE0043-CCV2	XDT_m1230502-034	NA	05/02/23 15:50
Calibration Blank	SLE0043-CCB2	XDT_m1230502-035	NA	05/02/23 15:57
Instrument Blank	SLE0043-IBL4	XDT_m1230502-044	NA	05/02/23 16:49
Calibration Check	SLE0043-CCV3	XDT_m1230502-045	NA	05/02/23 16:54
Calibration Blank	SLE0043-CCB3	XDT_m1230502-046	NA	05/02/23 17:01
Calibration Check	SLE0043-CCV4	XDT_m1230502-048	NA	05/02/23 17:11
Calibration Blank	SLE0043-CCB4	XDT_m1230502-049	NA	05/02/23 17:18
ZZZZZ	23A0417-02	XDT_m1230502-050	Solid	05/02/23 17:24
ZZZZZ	23A0417-02	XDT_m1230502-050	Solid	05/02/23 17:24
ZZZZZ	23A0417-02	XDT_m1230502-050	Solid	05/02/23 17:24
ZZZZZ	23A0417-03	XDT_m1230502-051	Solid	05/02/23 17:28

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLE0043
Instrument: ICPMS1
Calibration: GE00013

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	23A0417-03	XDT_m1230502-051	Solid	05/02/23 17:28
ZZZZZ	23A0417-04	XDT_m1230502-052	Solid	05/02/23 17:32
ZZZZZ	23A0417-04	XDT_m1230502-052	Solid	05/02/23 17:32
ZZZZZ	23A0417-04	XDT_m1230502-052	Solid	05/02/23 17:32
ZZZZZ	23A0417-05	XDT_m1230502-053	Solid	05/02/23 17:37
ZZZZZ	23A0417-05	XDT_m1230502-053	Solid	05/02/23 17:37
ZZZZZ	23A0417-05	XDT_m1230502-053	Solid	05/02/23 17:37
ZZZZZ	23A0417-06	XDT_m1230502-054	Solid	05/02/23 17:41
ZZZZZ	23A0417-06	XDT_m1230502-054	Solid	05/02/23 17:41
ZZZZZ	23A0417-06	XDT_m1230502-054	Solid	05/02/23 17:41
ZZZZZ	23A0417-07	XDT_m1230502-055	Solid	05/02/23 17:46
ZZZZZ	23A0417-07	XDT_m1230502-055	Solid	05/02/23 17:46
ZZZZZ	23A0417-07	XDT_m1230502-055	Solid	05/02/23 17:46
ZZZZZ	23A0417-08	XDT_m1230502-056	Solid	05/02/23 17:50
ZZZZZ	23A0417-08	XDT_m1230502-056	Solid	05/02/23 17:50
ZZZZZ	23A0417-09	XDT_m1230502-057	Solid	05/02/23 17:55
ZZZZZ	23A0417-09	XDT_m1230502-057	Solid	05/02/23 17:55
ZZZZZ	23A0417-09	XDT_m1230502-057	Solid	05/02/23 17:55
ZZZZZ	23A0417-10	XDT_m1230502-058	Solid	05/02/23 17:59
ZZZZZ	23A0417-10	XDT_m1230502-058	Solid	05/02/23 17:59
ZZZZZ	23A0417-10	XDT_m1230502-058	Solid	05/02/23 17:59
ZZZZZ	23A0417-11	XDT_m1230502-059	Solid	05/02/23 18:03
ZZZZZ	23A0417-11	XDT_m1230502-059	Solid	05/02/23 18:03
ZZZZZ	23A0417-11	XDT_m1230502-059	Solid	05/02/23 18:03
Calibration Check	SLE0043-CCV5	XDT_m1230502-060	NA	05/02/23 18:09
Calibration Blank	SLE0043-CCB5	XDT_m1230502-061	NA	05/02/23 18:16
ZZZZZ	23A0417-12	XDT_m1230502-062	Solid	05/02/23 18:24
ZZZZZ	23A0417-12	XDT_m1230502-062	Solid	05/02/23 18:24
ZZZZZ	23A0417-12	XDT_m1230502-062	Solid	05/02/23 18:24

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLE0043
Instrument: ICPMS1
Calibration: GE00013

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	23A0417-13	XDT_m1230502-063	Solid	05/02/23 18:28
ZZZZZ	23A0417-13	XDT_m1230502-063	Solid	05/02/23 18:28
ZZZZZ	23A0417-13	XDT_m1230502-063	Solid	05/02/23 18:28
ZZZZZ	23A0417-14	XDT_m1230502-064	Solid	05/02/23 18:33
ZZZZZ	23A0417-14	XDT_m1230502-064	Solid	05/02/23 18:33
ZZZZZ	23A0417-15	XDT_m1230502-065	Solid	05/02/23 18:37
ZZZZZ	23A0417-15	XDT_m1230502-065	Solid	05/02/23 18:37
ZZZZZ	23A0417-15	XDT_m1230502-065	Solid	05/02/23 18:37
ZZZZZ	23A0420-01	XDT_m1230502-066	Solid	05/02/23 18:42
ZZZZZ	23A0420-01	XDT_m1230502-066	Solid	05/02/23 18:42
ZZZZZ	23A0420-07	XDT_m1230502-067	Solid	05/02/23 18:46
ZZZZZ	23A0420-07	XDT_m1230502-067	Solid	05/02/23 18:46
ZZZZZ	23A0420-08	XDT_m1230502-068	Solid	05/02/23 18:50
ZZZZZ	23A0420-08	XDT_m1230502-068	Solid	05/02/23 18:50
ZZZZZ	23A0420-08	XDT_m1230502-068	Solid	05/02/23 18:50
ZZZZZ	23A0420-09	XDT_m1230502-069	Solid	05/02/23 18:55
ZZZZZ	23A0420-09	XDT_m1230502-069	Solid	05/02/23 18:55
ZZZZZ	23A0419-02	XDT_m1230502-070	Solid	05/02/23 18:59
ZZZZZ	23A0419-02	XDT_m1230502-070	Solid	05/02/23 18:59
Calibration Check	SLE0043-CCV6	XDT_m1230502-072	NA	05/02/23 19:09
Calibration Blank	SLE0043-CCB6	XDT_m1230502-073	NA	05/02/23 19:16
ZZZZZ	23A0419-04	XDT_m1230502-080	Solid	05/02/23 19:47
ZZZZZ	23A0419-04	XDT_m1230502-080	Solid	05/02/23 19:47
ZZZZZ	23A0419-04	XDT_m1230502-080	Solid	05/02/23 19:47
ZZZZZ	23A0419-05	XDT_m1230502-081	Solid	05/02/23 19:52
ZZZZZ	23A0419-05	XDT_m1230502-081	Solid	05/02/23 19:52
ZZZZZ	23A0419-05	XDT_m1230502-081	Solid	05/02/23 19:52
ZZZZZ	23A0419-06	XDT_m1230502-082	Solid	05/02/23 19:56
ZZZZZ	23A0419-06	XDT_m1230502-082	Solid	05/02/23 19:56

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLE0043
Instrument: ICPMS1
Calibration: GE00013

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	23A0419-06	XDT_m1230502-082	Solid	05/02/23 19:56
ZZZZZ	23A0419-07	XDT_m1230502-083	Solid	05/02/23 20:00
ZZZZZ	23A0419-07	XDT_m1230502-083	Solid	05/02/23 20:00
ZZZZZ	23A0419-07	XDT_m1230502-083	Solid	05/02/23 20:00
Calibration Check	SLE0043-CCV7	XDT_m1230502-084	NA	05/02/23 20:06
Calibration Blank	SLE0043-CCB7	XDT_m1230502-085	NA	05/02/23 20:13
ZZZZZ	23A0419-09	XDT_m1230502-087	Solid	05/02/23 20:22
ZZZZZ	23A0419-09	XDT_m1230502-087	Solid	05/02/23 20:22
ZZZZZ	23A0419-09	XDT_m1230502-087	Solid	05/02/23 20:22
ZZZZZ	23A0419-10	XDT_m1230502-088	Solid	05/02/23 20:26
ZZZZZ	23A0419-10	XDT_m1230502-088	Solid	05/02/23 20:26
ZZZZZ	23A0419-10	XDT_m1230502-088	Solid	05/02/23 20:26
ZZZZZ	23A0419-11	XDT_m1230502-089	Solid	05/02/23 20:31
ZZZZZ	23A0419-11	XDT_m1230502-089	Solid	05/02/23 20:31
ZZZZZ	23A0419-11	XDT_m1230502-089	Solid	05/02/23 20:31
ZZZZZ	23A0419-12	XDT_m1230502-090	Solid	05/02/23 20:35
ZZZZZ	23A0419-12	XDT_m1230502-090	Solid	05/02/23 20:35
ZZZZZ	23A0419-12	XDT_m1230502-090	Solid	05/02/23 20:35
ZZZZZ	23C0752-01	XDT_m1230502-091	Solid	05/02/23 20:40
ZZZZZ	23C0752-01	XDT_m1230502-091	Solid	05/02/23 20:40
ZZZZZ	23C0752-01	XDT_m1230502-091	Solid	05/02/23 20:40
ZZZZZ	23C0752-02	XDT_m1230502-092	Solid	05/02/23 20:44
ZZZZZ	23C0752-02	XDT_m1230502-092	Solid	05/02/23 20:44
ZZZZZ	23C0752-02	XDT_m1230502-092	Solid	05/02/23 20:44
ZZZZZ	23C0752-03	XDT_m1230502-093	Solid	05/02/23 20:49
ZZZZZ	23C0752-03	XDT_m1230502-093	Solid	05/02/23 20:49
ZZZZZ	23C0752-03	XDT_m1230502-093	Solid	05/02/23 20:49
ZZZZZ	23C0752-04	XDT_m1230502-094	Solid	05/02/23 20:53
ZZZZZ	23C0752-04	XDT_m1230502-094	Solid	05/02/23 20:53

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLE0043

SDG: 23C0071
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GE00013

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	23C0752-04	XDT_m1230502-094	Solid	05/02/23 20:53
ZZZZZ	23C0752-06	XDT_m1230502-095	Solid	05/02/23 20:58
ZZZZZ	23C0752-06	XDT_m1230502-095	Solid	05/02/23 20:58
ZZZZZ	23C0752-06	XDT_m1230502-095	Solid	05/02/23 20:58
Calibration Check	SLE0043-CCV8	XDT_m1230502-096	NA	05/02/23 21:03
Calibration Blank	SLE0043-CCB8	XDT_m1230502-097	NA	05/02/23 21:10
ZZZZZ	23A0455-02	XDT_m1230502-098	Solid	05/02/23 21:15
ZZZZZ	23A0455-02	XDT_m1230502-098	Solid	05/02/23 21:15
ZZZZZ	23A0455-02	XDT_m1230502-098	Solid	05/02/23 21:15
ZZZZZ	23A0455-03	XDT_m1230502-099	Solid	05/02/23 21:19
ZZZZZ	23A0455-03	XDT_m1230502-099	Solid	05/02/23 21:19
ZZZZZ	23A0455-03	XDT_m1230502-099	Solid	05/02/23 21:19
ZZZZZ	23A0455-04	XDT_m1230502-100	Solid	05/02/23 21:24
ZZZZZ	23A0455-04	XDT_m1230502-100	Solid	05/02/23 21:24
ZZZZZ	23A0455-04	XDT_m1230502-100	Solid	05/02/23 21:24
ZZZZZ	23A0455-05	XDT_m1230502-101	Solid	05/02/23 21:28
ZZZZZ	23A0455-05	XDT_m1230502-101	Solid	05/02/23 21:28
ZZZZZ	23A0455-05	XDT_m1230502-101	Solid	05/02/23 21:28
ZZZZZ	23A0455-06	XDT_m1230502-102	Solid	05/02/23 21:32
ZZZZZ	23A0455-06	XDT_m1230502-102	Solid	05/02/23 21:32
ZZZZZ	23A0455-06	XDT_m1230502-102	Solid	05/02/23 21:32
ZZZZZ	23A0455-07	XDT_m1230502-103	Solid	05/02/23 21:37
ZZZZZ	23A0455-07	XDT_m1230502-103	Solid	05/02/23 21:37
ZZZZZ	23A0455-07	XDT_m1230502-103	Solid	05/02/23 21:37
ZZZZZ	23A0455-08	XDT_m1230502-104	Solid	05/02/23 21:41
ZZZZZ	23A0455-08	XDT_m1230502-104	Solid	05/02/23 21:41
ZZZZZ	23A0455-08	XDT_m1230502-104	Solid	05/02/23 21:41
ZZZZZ	23A0455-10	XDT_m1230502-106	Solid	05/02/23 21:50
ZZZZZ	23A0455-10	XDT_m1230502-106	Solid	05/02/23 21:50

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLE0043

SDG: 23C0071
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GE00013

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	23A0455-10	XDT_m1230502-106	Solid	05/02/23 21:50
ZZZZZ	23A0455-11	XDT_m1230502-107	Solid	05/02/23 21:55
ZZZZZ	23A0455-11	XDT_m1230502-107	Solid	05/02/23 21:55
ZZZZZ	23A0455-11	XDT_m1230502-107	Solid	05/02/23 21:55
Calibration Check	SLE0043-CCV9	XDT_m1230502-108	NA	05/02/23 22:00
Calibration Blank	SLE0043-CCB9	XDT_m1230502-109	NA	05/02/23 22:07
Calibration Check	SLE0043-CCVA	XDT_m1230502-111	NA	05/02/23 22:16
Calibration Blank	SLE0043-CCBA	XDT_m1230502-112	NA	05/02/23 22:23
ZZZZZ	23A0455-12	XDT_m1230502-113	Solid	05/02/23 22:28
ZZZZZ	23A0455-13	XDT_m1230502-114	Solid	05/02/23 22:32
ZZZZZ	23A0455-14	XDT_m1230502-115	Solid	05/02/23 22:37
ZZZZZ	23A0455-15	XDT_m1230502-116	Solid	05/02/23 22:41
ZZZZZ	23A0455-15	XDT_m1230502-116	Solid	05/02/23 22:41
ZZZZZ	23A0455-16	XDT_m1230502-117	Solid	05/02/23 22:45
ZZZZZ	23A0455-16	XDT_m1230502-117	Solid	05/02/23 22:45
ZZZZZ	23A0455-17	XDT_m1230502-118	Solid	05/02/23 22:50
ZZZZZ	23A0455-17	XDT_m1230502-118	Solid	05/02/23 22:50
Instrument Blank	SLE0043-IBL5	XDT_m1230502-122	NA	05/02/23 23:07
Calibration Check	SLE0043-CCVB	XDT_m1230502-123	NA	05/02/23 23:12
Calibration Blank	SLE0043-CCBB	XDT_m1230502-124	NA	05/02/23 23:19
Instrument Blank	SLE0043-IBL6	XDT_m1230502-129	NA	05/02/23 23:43
Instrument Blank	SLE0043-IBL7	XDT_m1230502-134	NA	05/03/23 00:07
Calibration Check	SLE0043-CCVC	XDT_m1230502-135	NA	05/03/23 00:11
Calibration Blank	SLE0043-CCBC	XDT_m1230502-136	NA	05/03/23 00:18
Instrument Blank	SLE0043-IBL8	XDT_m1230502-146	NA	05/03/23 01:06
Calibration Check	SLE0043-CCVD	XDT_m1230502-147	NA	05/03/23 01:10
Calibration Blank	SLE0043-CCBD	XDT_m1230502-148	NA	05/03/23 01:17
Instrument Blank	SLE0043-IBL9	XDT_m1230502-158	NA	05/03/23 01:56
Calibration Check	SLE0043-CCVE	XDT_m1230502-159	NA	05/03/23 02:00

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLE0043	Instrument:	ICPMS1
		Calibration:	GE00013

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Calibration Blank	SLE0043-CCBE	XDT_m1230502-160	NA	05/03/23 02:06
Calibration Check	SLE0043-CCVF	XDT_m1230502-162	NA	05/03/23 02:14
Calibration Blank	SLE0043-CCBF	XDT_m1230502-163	NA	05/03/23 02:20
Instrument Blank	SLE0043-IBLA	XDT_m1230502-173	NA	05/03/23 02:56
Calibration Check	SLE0043-CCVG	XDT_m1230502-174	NA	05/03/23 03:00
Calibration Blank	SLE0043-CCBG	XDT_m1230502-175	NA	05/03/23 03:06
Instrument Blank	SLE0043-IBLB	XDT_m1230502-185	NA	05/03/23 03:43
Calibration Check	SLE0043-CCVH	XDT_m1230502-186	NA	05/03/23 03:47
Calibration Blank	SLE0043-CCBH	XDT_m1230502-187	NA	05/03/23 03:53
Instrument Blank	SLE0043-IBLC	XDT_m1230502-197	NA	05/03/23 04:29
Calibration Check	SLE0043-CCVI	XDT_m1230502-198	NA	05/03/23 04:33
Calibration Blank	SLE0043-CCBI	XDT_m1230502-199	NA	05/03/23 04:39
Instrument Blank	SLE0043-IBLD	XDT_m1230502-209	NA	05/03/23 05:16
Calibration Check	SLE0043-CCVJ	XDT_m1230502-210	NA	05/03/23 05:21
Calibration Blank	SLE0043-CCBJ	XDT_m1230502-211	NA	05/03/23 05:27
Instrument Blank	SLE0043-IBLE	XDT_m1230502-221	NA	05/03/23 06:04
Calibration Check	SLE0043-CCVK	XDT_m1230502-222	NA	05/03/23 06:08
Calibration Blank	SLE0043-CCBK	XDT_m1230502-223	NA	05/03/23 06:12

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLE0071
Instrument: ICPMS1
Calibration: GE00019

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
CAL 0	SLE0071-CAL1	XDT_m1230503-010	NA	05/03/23 13:32
CAL 1 - LOW CHECK	SLE0071-CAL2	XDT_m1230503-011	NA	05/03/23 13:37
CAL 2	SLE0071-CAL3	XDT_m1230503-012	NA	05/03/23 13:42
CAL 3	SLE0071-CAL4	XDT_m1230503-013	NA	05/03/23 13:47
CAL 4	SLE0071-CAL5	XDT_m1230503-014	NA	05/03/23 13:52
CAL 5	SLE0071-CAL6	XDT_m1230503-015	NA	05/03/23 13:59
RINSE	SLE0071-IBL1	XDT_m1230503-016	NA	05/03/23 14:07
Initial Cal Check	SLE0071-ICV1	XDT_m1230503-018	NA	05/03/23 14:14
Initial Cal Blank	SLE0071-ICB1	XDT_m1230503-019	NA	05/03/23 14:22
Calibration Check	SLE0071-CCV1	XDT_m1230503-020	NA	05/03/23 14:27
Calibration Blank	SLE0071-CCB1	XDT_m1230503-021	NA	05/03/23 14:34
Instrument RL Check	SLE0071-CRL1	XDT_m1230503-022	NA	05/03/23 14:43
Interference Check A	SLE0071-IFA1	XDT_m1230503-023	NA	05/03/23 14:51
Interference Check B	SLE0071-IFB1	XDT_m1230503-024	NA	05/03/23 14:56
LR200	SLE0071-HCV1	XDT_m1230503-025	NA	05/03/23 15:01
LR300	SLE0071-HCV2	XDT_m1230503-026	NA	05/03/23 15:06
Instrument Blank	SLE0071-IBL2	XDT_m1230503-027	NA	05/03/23 15:13
Instrument Blank	SLE0071-IBL3	XDT_m1230503-028	NA	05/03/23 15:27
Calibration Check	SLE0071-CCV2	XDT_m1230503-029	NA	05/03/23 15:33
Calibration Blank	SLE0071-CCB2	XDT_m1230503-030	NA	05/03/23 15:44
Instrument Blank	SLE0071-IBL4	XDT_m1230503-040	NA	05/03/23 16:42
Calibration Check	SLE0071-CCV3	XDT_m1230503-041	NA	05/03/23 16:47
Calibration Blank	SLE0071-CCB3	XDT_m1230503-042	NA	05/03/23 16:55
Calibration Check	SLE0071-CCV4	XDT_m1230503-044	NA	05/03/23 17:08
Calibration Blank	SLE0071-CCB4	XDT_m1230503-045	NA	05/03/23 17:15
Instrument Blank	SLE0071-IBL5	XDT_m1230503-055	NA	05/03/23 18:09
Calibration Check	SLE0071-CCV5	XDT_m1230503-056	NA	05/03/23 18:14
Calibration Blank	SLE0071-CCB5	XDT_m1230503-057	NA	05/03/23 18:22
Instrument Blank	SLE0071-IBL6	XDT_m1230503-067	NA	05/03/23 19:15

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLE0071

SDG: 23C0071
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GE00019

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Calibration Check	SLE0071-CCV6	XDT_m1230503-068	NA	05/03/23 19:20
Calibration Blank	SLE0071-CCB6	XDT_m1230503-069	NA	05/03/23 19:27
Instrument Blank	SLE0071-IBL7	XDT_m1230503-075	NA	05/03/23 20:01
Instrument Blank	SLE0071-IBL8	XDT_m1230503-079	NA	05/03/23 20:21
Calibration Check	SLE0071-CCV7	XDT_m1230503-080	NA	05/03/23 20:26
Calibration Blank	SLE0071-CCB7	XDT_m1230503-081	NA	05/03/23 20:34
Calibration Check	SLE0071-CCV8	XDT_m1230503-083	NA	05/03/23 20:47
Calibration Blank	SLE0071-CCB8	XDT_m1230503-084	NA	05/03/23 20:53
Instrument Blank	SLE0071-IBL9	XDT_m1230503-094	NA	05/03/23 21:41
Calibration Check	SLE0071-CCV9	XDT_m1230503-095	NA	05/03/23 21:45
Calibration Blank	SLE0071-CCB9	XDT_m1230503-096	NA	05/03/23 21:51
Instrument Blank	SLE0071-IBLA	XDT_m1230503-106	NA	05/03/23 22:34
Calibration Check	SLE0071-CCVA	XDT_m1230503-107	NA	05/03/23 22:38
Calibration Blank	SLE0071-CCBA	XDT_m1230503-108	NA	05/03/23 22:45
Instrument Blank	SLE0071-IBLB	XDT_m1230503-113	NA	05/03/23 23:07
Instrument Blank	SLE0071-IBLC	XDT_m1230503-118	NA	05/03/23 23:29
Calibration Check	SLE0071-CCVB	XDT_m1230503-119	NA	05/03/23 23:33
Calibration Blank	SLE0071-CCBB	XDT_m1230503-120	NA	05/03/23 23:39
Instrument Blank	SLE0071-IBLD	XDT_m1230503-125	NA	05/03/23 23:57
Instrument Blank	SLE0071-IBLE	XDT_m1230503-130	NA	05/04/23 00:14
Calibration Check	SLE0071-CCVC	XDT_m1230503-131	NA	05/04/23 00:17
Calibration Blank	SLE0071-CCBC	XDT_m1230503-132	NA	05/04/23 00:23
Instrument Blank	SLE0071-IBLF	XDT_m1230503-137	NA	05/04/23 00:40
Instrument Blank	SLE0071-IBLG	XDT_m1230503-142	NA	05/04/23 00:55
Calibration Check	SLE0071-CCVD	XDT_m1230503-143	NA	05/04/23 00:58
Calibration Blank	SLE0071-CCBD	XDT_m1230503-144	NA	05/04/23 01:04
Calibration Check	SLE0071-CCVE	XDT_m1230503-146	NA	05/04/23 01:10
Calibration Blank	SLE0071-CCBE	XDT_m1230503-147	NA	05/04/23 01:16
Instrument Blank	SLE0071-IBLH	XDT_m1230503-157	NA	05/04/23 01:46

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLE0071

SDG: 23C0071
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GE00019

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Calibration Check	SLE0071-CCVF	XDT_m1230503-158	NA	05/04/23 01:49
Calibration Blank	SLE0071-CCBF	XDT_m1230503-159	NA	05/04/23 01:55
Instrument Blank	SLE0071-IBLI	XDT_m1230503-169	NA	05/04/23 02:25
Calibration Check	SLE0071-CCVG	XDT_m1230503-170	NA	05/04/23 02:28
Calibration Blank	SLE0071-CCBG	XDT_m1230503-171	NA	05/04/23 02:34
Calibration Check	SLE0071-CCVH	XDT_m1230503-182	NA	05/04/23 03:09
Calibration Blank	SLE0071-CCBH	XDT_m1230503-183	NA	05/04/23 03:15
ZZZZZ	23A0455-15	XDT_m1230503-192	Solid	05/04/23 03:42
Instrument Blank	SLE0071-IBLJ	XDT_m1230503-193	NA	05/04/23 03:45
Calibration Check	SLE0071-CCVI	XDT_m1230503-194	NA	05/04/23 03:48
Calibration Blank	SLE0071-CCBI	XDT_m1230503-195	NA	05/04/23 03:54
Calibration Check	SLE0071-CCVJ	XDT_m1230503-197	NA	05/04/23 04:00
Calibration Blank	SLE0071-CCBJ	XDT_m1230503-198	NA	05/04/23 04:06
ZZZZZ	23A0455-16	XDT_m1230503-208	Solid	05/04/23 04:37
Calibration Check	SLE0071-CCVK	XDT_m1230503-209	NA	05/04/23 04:41
Calibration Blank	SLE0071-CCBK	XDT_m1230503-210	NA	05/04/23 04:46
ZZZZZ	23A0455-17	XDT_m1230503-211	Solid	05/04/23 04:50
Instrument Blank	SLE0071-IBLK	XDT_m1230503-220	NA	05/04/23 05:17
Calibration Check	SLE0071-CCVL	XDT_m1230503-221	NA	05/04/23 05:20
Calibration Blank	SLE0071-CCBL	XDT_m1230503-222	NA	05/04/23 05:26
Instrument Blank	SLE0071-IBLL	XDT_m1230503-232	NA	05/04/23 05:57
Calibration Check	SLE0071-CCVM	XDT_m1230503-233	NA	05/04/23 06:00
Calibration Blank	SLE0071-CCBM	XDT_m1230503-234	NA	05/04/23 06:06
Instrument Blank	SLE0071-IBLM	XDT_m1230503-244	NA	05/04/23 06:38
Calibration Check	SLE0071-CCVN	XDT_m1230503-245	NA	05/04/23 06:41
Calibration Blank	SLE0071-CCBN	XDT_m1230503-246	NA	05/04/23 06:47

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLE0204
Instrument: ICPMS1
Calibration: GE00040

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
CAL 0	SLE0204-CAL1	XDT_m1230510A-008	NA	05/10/23 15:47
CAL 1 - LOW CHECK	SLE0204-CAL2	XDT_m1230510A-009	NA	05/10/23 15:51
CAL 2	SLE0204-CAL3	XDT_m1230510A-010	NA	05/10/23 15:56
CAL 3	SLE0204-CAL4	XDT_m1230510A-011	NA	05/10/23 16:01
CAL 4	SLE0204-CAL5	XDT_m1230510A-012	NA	05/10/23 16:05
CAL 5	SLE0204-CAL6	XDT_m1230510A-013	NA	05/10/23 16:12
RINSE	SLE0204-IBL1	XDT_m1230510A-014	NA	05/10/23 16:19
Initial Cal Check	SLE0204-ICV1	XDT_m1230510A-016	NA	05/10/23 16:25
Initial Cal Blank	SLE0204-ICB1	XDT_m1230510A-017	NA	05/10/23 16:32
Calibration Check	SLE0204-CCV1	XDT_m1230510A-018	NA	05/10/23 16:37
Calibration Blank	SLE0204-CCB1	XDT_m1230510A-019	NA	05/10/23 16:44
Instrument RL Check	SLE0204-CRL1	XDT_m1230510A-020	NA	05/10/23 16:49
Interference Check A	SLE0204-IFA1	XDT_m1230510A-021	NA	05/10/23 16:56
Interference Check B	SLE0204-IFB1	XDT_m1230510A-022	NA	05/10/23 17:00
LR200	SLE0204-HCV1	XDT_m1230510A-023	NA	05/10/23 17:06
LR300	SLE0204-HCV2	XDT_m1230510A-024	NA	05/10/23 17:11
Instrument Blank	SLE0204-IBL2	XDT_m1230510A-025	NA	05/10/23 17:18
Calibration Check	SLE0204-CCV2	XDT_m1230510A-026	NA	05/10/23 17:24
Calibration Blank	SLE0204-CCB2	XDT_m1230510A-027	NA	05/10/23 17:32
Calibration Check	SLE0204-CCV3	XDT_m1230510A-029	NA	05/10/23 17:41
Calibration Blank	SLE0204-CCB3	XDT_m1230510A-030	NA	05/10/23 17:49
ZZZZZ	BLD0687-BLK2	XDT_m1230510A-031	Solid	05/10/23 17:54
ZZZZZ	BLD0687-BS2	XDT_m1230510A-033	Solid	05/10/23 18:05
ZZZZZ	BLE0298-BLK1	XDT_m1230510A-034	Water	05/10/23 18:11
ZZZZZ	BLE0298-BS1	XDT_m1230510A-035	Water	05/10/23 18:15
ZZZZZ	23D0297-01	XDT_m1230510A-037	Solid	05/10/23 18:27
ZZZZZ	23D0297-01	XDT_m1230510A-037	Solid	05/10/23 18:27
ZZZZZ	BLD0728-DUP2	XDT_m1230510A-038	Solid	05/10/23 18:32
Instrument Blank	SLE0204-IBL3	XDT_m1230510A-040	NA	05/10/23 18:41

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLE0204

SDG: 23C0071
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GE00040

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Calibration Check	SLE0204-CCV4	XDT_m1230510A-041	NA	05/10/23 18:45
Calibration Blank	SLE0204-CCB4	XDT_m1230510A-042	NA	05/10/23 18:53
ZZZZZ	BLE0143-BLK1	XDT_m1230510A-045	Solid	05/10/23 19:07
ZZZZZ	BLE0143-BS1	XDT_m1230510A-047	Solid	05/10/23 19:19
ZZZZZ	BLD0728-MS2	XDT_m1230510A-048	Solid	05/10/23 19:23
Instrument Blank	SLE0204-IBL4	XDT_m1230510A-050	NA	05/10/23 19:33
Instrument Blank	SLE0204-IBL5	XDT_m1230510A-052	NA	05/10/23 19:44
Calibration Check	SLE0204-CCV5	XDT_m1230510A-053	NA	05/10/23 19:48
Calibration Blank	SLE0204-CCB5	XDT_m1230510A-054	NA	05/10/23 19:56
Calibration Check	SLE0204-CCV6	XDT_m1230510A-057	NA	05/10/23 20:30
Calibration Blank	SLE0204-CCB6	XDT_m1230510A-058	NA	05/10/23 20:37
ZZZZZ	BLD0578-BLK1	XDT_m1230510A-059	Solid	05/10/23 20:44
ZZZZZ	BLD0578-BS1	XDT_m1230510A-060	Solid	05/10/23 20:48
ZZZZZ	BLE0072-BLK1	XDT_m1230510A-061	Solid	05/10/23 20:53
ZZZZZ	23D0394-01	XDT_m1230510A-063	Solid	05/10/23 21:02
ZZZZZ	23D0394-01	XDT_m1230510A-063	Solid	05/10/23 21:02
ZZZZZ	23D0394-01	XDT_m1230510A-063	Solid	05/10/23 21:02
ZZZZZ	BLD0687-DUP2	XDT_m1230510A-064	Solid	05/10/23 21:07
ZZZZZ	BLD0687-MS2	XDT_m1230510A-065	Solid	05/10/23 21:12
ZZZZZ	BLD0687-MSD2	XDT_m1230510A-066	Solid	05/10/23 21:16
ZZZZZ	BLD0687-PS2	XDT_m1230510A-067	Solid	05/10/23 21:21
Instrument Blank	SLE0204-IBL6	XDT_m1230510A-068	NA	05/10/23 21:25
Calibration Check	SLE0204-CCV7	XDT_m1230510A-069	NA	05/10/23 21:29
Calibration Blank	SLE0204-CCB7	XDT_m1230510A-070	NA	05/10/23 21:37
ZZZZZ	23A0467-02	XDT_m1230510A-071	Solid	05/10/23 21:41
ZZZZZ	23A0467-02	XDT_m1230510A-071	Solid	05/10/23 21:41
ZZZZZ	23A0467-02	XDT_m1230510A-071	Solid	05/10/23 21:41
ZZZZZ	23A0467-04	XDT_m1230510A-073	Solid	05/10/23 21:50
ZZZZZ	23A0467-04	XDT_m1230510A-073	Solid	05/10/23 21:50

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLE0204
Instrument: ICPMS1
Calibration: GE00040

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	23A0467-04	XDT_m1230510A-073	Solid	05/10/23 21:50
ZZZZZ	23A0467-05	XDT_m1230510A-074	Solid	05/10/23 21:54
ZZZZZ	23A0467-05	XDT_m1230510A-074	Solid	05/10/23 21:54
ZZZZZ	23A0467-05	XDT_m1230510A-074	Solid	05/10/23 21:54
ZZZZZ	23A0467-01	XDT_m1230510A-075	Solid	05/10/23 21:59
ZZZZZ	23A0467-01	XDT_m1230510A-075	Solid	05/10/23 21:59
ZZZZZ	23A0467-01	XDT_m1230510A-075	Solid	05/10/23 21:59
ZZZZZ	BLD0578-DUP1	XDT_m1230510A-076	Solid	05/10/23 22:03
ZZZZZ	BLD0578-MS1	XDT_m1230510A-077	Solid	05/10/23 22:08
ZZZZZ	BLD0578-MSD1	XDT_m1230510A-078	Solid	05/10/23 22:12
ZZZZZ	BLD0578-PS1	XDT_m1230510A-079	Solid	05/10/23 22:16
Instrument Blank	SLE0204-IBL7	XDT_m1230510A-080	NA	05/10/23 22:21
Calibration Check	SLE0204-CCV8	XDT_m1230510A-081	NA	05/10/23 22:25
Calibration Blank	SLE0204-CCB8	XDT_m1230510A-082	NA	05/10/23 22:32
ZZZZZ	23A0467-06	XDT_m1230510A-083	Solid	05/10/23 22:37
ZZZZZ	23A0467-06	XDT_m1230510A-083	Solid	05/10/23 22:37
ZZZZZ	23A0467-06	XDT_m1230510A-083	Solid	05/10/23 22:37
ZZZZZ	23A0467-07	XDT_m1230510A-084	Solid	05/10/23 22:41
ZZZZZ	23A0467-07	XDT_m1230510A-084	Solid	05/10/23 22:41
ZZZZZ	23A0467-07	XDT_m1230510A-084	Solid	05/10/23 22:41
ZZZZZ	23A0467-08	XDT_m1230510A-085	Solid	05/10/23 22:46
ZZZZZ	23A0467-08	XDT_m1230510A-085	Solid	05/10/23 22:46
ZZZZZ	23A0467-08	XDT_m1230510A-085	Solid	05/10/23 22:46
ZZZZZ	23A0467-09	XDT_m1230510A-086	Solid	05/10/23 22:50
ZZZZZ	23A0467-09	XDT_m1230510A-086	Solid	05/10/23 22:50
ZZZZZ	23A0467-09	XDT_m1230510A-086	Solid	05/10/23 22:50
ZZZZZ	23D0393-04	XDT_m1230510A-087	Solid	05/10/23 22:54
ZZZZZ	BLE0072-DUP1	XDT_m1230510A-088	Solid	05/10/23 22:59
ZZZZZ	BLE0072-MS1	XDT_m1230510A-089	Solid	05/10/23 23:03

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLE0204

SDG: 23C0071
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GE00040

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	BLE0072-MSD1	XDT_m1230510A-090	Solid	05/10/23 23:08
Instrument Blank	SLE0204-IBL8	XDT_m1230510A-092	NA	05/10/23 23:16
Calibration Check	SLE0204-CCV9	XDT_m1230510A-093	NA	05/10/23 23:21
Calibration Blank	SLE0204-CCB9	XDT_m1230510A-094	NA	05/10/23 23:28
LDW23-SS1000	23C0071-01	XDT_m1230510A-095	Solid	05/10/23 23:33
LDW23-SS1000	23C0071-01	XDT_m1230510A-095	Solid	05/10/23 23:33
LDW23-SS1000	23C0071-01	XDT_m1230510A-095	Solid	05/10/23 23:33
LDW23-SS1037	23C0071-02	XDT_m1230510A-096	Solid	05/10/23 23:37
LDW23-SS1037	23C0071-02	XDT_m1230510A-096	Solid	05/10/23 23:37
LDW23-SS1037	23C0071-02	XDT_m1230510A-096	Solid	05/10/23 23:37
LDW23-SS1044	23C0071-04	XDT_m1230510A-098	Solid	05/10/23 23:46
LDW23-SS1044	23C0071-04	XDT_m1230510A-098	Solid	05/10/23 23:46
LDW23-SS1044	23C0071-04	XDT_m1230510A-098	Solid	05/10/23 23:46
LDW23-SS1048	23C0071-05	XDT_m1230510A-099	Solid	05/10/23 23:50
LDW23-SS1048	23C0071-05	XDT_m1230510A-099	Solid	05/10/23 23:50
LDW23-SS1048	23C0071-05	XDT_m1230510A-099	Solid	05/10/23 23:50
LDW23-SS1054	23C0071-06	XDT_m1230510A-100	Solid	05/10/23 23:55
LDW23-SS1054	23C0071-06	XDT_m1230510A-100	Solid	05/10/23 23:55
LDW23-SS1054	23C0071-06	XDT_m1230510A-100	Solid	05/10/23 23:55
ZZZZZ	23C0109-02	XDT_m1230510A-101	Solid	05/10/23 23:59
ZZZZZ	23C0109-02	XDT_m1230510A-101	Solid	05/10/23 23:59
ZZZZZ	23C0109-02	XDT_m1230510A-101	Solid	05/10/23 23:59
ZZZZZ	23C0109-03	XDT_m1230510A-102	Solid	05/11/23 00:03
ZZZZZ	23C0109-03	XDT_m1230510A-102	Solid	05/11/23 00:03
ZZZZZ	23C0109-03	XDT_m1230510A-102	Solid	05/11/23 00:03
ZZZZZ	23C0108-02	XDT_m1230510A-103	Solid	05/11/23 00:08
ZZZZZ	23C0108-02	XDT_m1230510A-103	Solid	05/11/23 00:08
ZZZZZ	23C0108-02	XDT_m1230510A-103	Solid	05/11/23 00:08
Instrument Blank	SLE0204-IBL9	XDT_m1230510A-104	NA	05/11/23 00:12

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLE0204

SDG: 23C0071
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GE00040

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Calibration Check	SLE0204-CCVA	XDT_m1230510A-105	NA	05/11/23 00:16
Calibration Blank	SLE0204-CCBA	XDT_m1230510A-106	NA	05/11/23 00:24
ZZZZZ	23C0108-06	XDT_m1230510A-107	Solid	05/11/23 00:28
ZZZZZ	23C0108-06	XDT_m1230510A-107	Solid	05/11/23 00:28
ZZZZZ	23C0108-06	XDT_m1230510A-107	Solid	05/11/23 00:28
ZZZZZ	23C0108-07	XDT_m1230510A-108	Solid	05/11/23 00:32
ZZZZZ	23C0108-07	XDT_m1230510A-108	Solid	05/11/23 00:32
ZZZZZ	23C0108-07	XDT_m1230510A-108	Solid	05/11/23 00:32
ZZZZZ	23C0108-08	XDT_m1230510A-109	Solid	05/11/23 00:37
ZZZZZ	23C0108-08	XDT_m1230510A-109	Solid	05/11/23 00:37
ZZZZZ	23C0108-08	XDT_m1230510A-109	Solid	05/11/23 00:37
ZZZZZ	23C0108-09	XDT_m1230510A-110	Solid	05/11/23 00:41
ZZZZZ	23C0108-09	XDT_m1230510A-110	Solid	05/11/23 00:41
ZZZZZ	23C0108-09	XDT_m1230510A-110	Solid	05/11/23 00:41
ZZZZZ	23D0008-03	XDT_m1230510A-112	Solid	05/11/23 00:50
ZZZZZ	23D0008-03	XDT_m1230510A-112	Solid	05/11/23 00:50
ZZZZZ	23D0008-03	XDT_m1230510A-112	Solid	05/11/23 00:50
ZZZZZ	23D0037-01	XDT_m1230510A-113	Solid	05/11/23 00:54
ZZZZZ	23D0037-01	XDT_m1230510A-113	Solid	05/11/23 00:54
ZZZZZ	23D0037-01	XDT_m1230510A-113	Solid	05/11/23 00:54
ZZZZZ	23D0037-03	XDT_m1230510A-114	Solid	05/11/23 00:59
ZZZZZ	23D0037-03	XDT_m1230510A-114	Solid	05/11/23 00:59
ZZZZZ	23D0037-03	XDT_m1230510A-114	Solid	05/11/23 00:59
Instrument Blank	SLE0204-IBLA	XDT_m1230510A-116	NA	05/11/23 01:08
Calibration Check	SLE0204-CCVB	XDT_m1230510A-117	NA	05/11/23 01:12
Calibration Blank	SLE0204-CCBB	XDT_m1230510A-118	NA	05/11/23 01:19
Calibration Check	SLE0204-CCVC	XDT_m1230510A-120	NA	05/11/23 01:28
Calibration Blank	SLE0204-CCBC	XDT_m1230510A-121	NA	05/11/23 01:35
ZZZZZ	23D0063-01	XDT_m1230510A-123	Solid	05/11/23 01:44

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLE0204

SDG: 23C0071
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GE00040

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	23D0063-01	XDT_m1230510A-123	Solid	05/11/23 01:44
ZZZZZ	23D0063-01	XDT_m1230510A-123	Solid	05/11/23 01:44
ZZZZZ	23D0063-03	XDT_m1230510A-124	Solid	05/11/23 01:49
ZZZZZ	23D0063-03	XDT_m1230510A-124	Solid	05/11/23 01:49
ZZZZZ	23D0063-03	XDT_m1230510A-124	Solid	05/11/23 01:49
Instrument Blank	SLE0204-IBLB	XDT_m1230510A-131	NA	05/11/23 02:21
Calibration Check	SLE0204-CCVD	XDT_m1230510A-132	NA	05/11/23 02:26
Calibration Blank	SLE0204-CCBD	XDT_m1230510A-133	NA	05/11/23 02:33
Instrument Blank	SLE0204-IBLC	XDT_m1230510A-138	NA	05/11/23 02:57
ZZZZZ	23D0477-21	XDT_m1230510A-141	Water	05/11/23 03:11
ZZZZZ	23D0477-22	XDT_m1230510A-142	Water	05/11/23 03:15
Instrument Blank	SLE0204-IBLD	XDT_m1230510A-143	NA	05/11/23 03:20
Calibration Check	SLE0204-CCVE	XDT_m1230510A-144	NA	05/11/23 03:24
Calibration Blank	SLE0204-CCBE	XDT_m1230510A-145	NA	05/11/23 03:31
Instrument Blank	SLE0204-IBLE	XDT_m1230510A-150	NA	05/11/23 03:57
Instrument Blank	SLE0204-IBLF	XDT_m1230510A-155	NA	05/11/23 04:21
Calibration Check	SLE0204-CCVF	XDT_m1230510A-156	NA	05/11/23 04:26
Calibration Blank	SLE0204-CCBF	XDT_m1230510A-157	NA	05/11/23 04:33
Calibration Check	SLE0204-CCVG	XDT_m1230510A-159	NA	05/11/23 04:42
Calibration Blank	SLE0204-CCBG	XDT_m1230510A-160	NA	05/11/23 04:49
Instrument Blank	SLE0204-IBLG	XDT_m1230510A-170	NA	05/11/23 05:33
Calibration Check	SLE0204-CCVH	XDT_m1230510A-171	NA	05/11/23 05:38
Calibration Blank	SLE0204-CCBH	XDT_m1230510A-172	NA	05/11/23 05:45
Instrument Blank	SLE0204-IBLH	XDT_m1230510A-182	NA	05/11/23 06:31
Calibration Check	SLE0204-CCVI	XDT_m1230510A-183	NA	05/11/23 06:35
Calibration Blank	SLE0204-CCBI	XDT_m1230510A-184	NA	05/11/23 06:42
Instrument Blank	SLE0204-IBLI	XDT_m1230510A-189	NA	05/11/23 07:05
ZZZZZ	23D0636-01	XDT_m1230510A-190	Water	05/11/23 07:09
ZZZZZ	BLE0298-DUP1	XDT_m1230510A-191	Water	05/11/23 07:14

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLE0204	Instrument:	ICPMS1
		Calibration:	GE00040

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	BLE0298-MS1	XDT_m1230510A-192	Water	05/11/23 07:19
ZZZZZ	BLE0298-MSD1	XDT_m1230510A-193	Water	05/11/23 07:25
Instrument Blank	SLE0204-IBLJ	XDT_m1230510A-194	NA	05/11/23 07:29
Calibration Check	SLE0204-CCVJ	XDT_m1230510A-195	NA	05/11/23 07:34
Calibration Blank	SLE0204-CCBJ	XDT_m1230510A-196	NA	05/11/23 07:41

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLE0209

SDG: 23C0071
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GE00042

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
CAL 0	SLE0209-CAL1	XDT_m1230511-006	NA	05/11/23 13:56
CAL 1 - LOW CHECK	SLE0209-CAL2	XDT_m1230511-007	NA	05/11/23 14:00
CAL 2	SLE0209-CAL3	XDT_m1230511-008	NA	05/11/23 14:05
CAL 3	SLE0209-CAL4	XDT_m1230511-009	NA	05/11/23 14:10
CAL 4	SLE0209-CAL5	XDT_m1230511-010	NA	05/11/23 14:15
CAL 5	SLE0209-CAL6	XDT_m1230511-011	NA	05/11/23 14:21
RINSE	SLE0209-IBL1	XDT_m1230511-012	NA	05/11/23 14:29
Initial Cal Check	SLE0209-ICV1	XDT_m1230511-014	NA	05/11/23 14:34
Initial Cal Blank	SLE0209-ICB1	XDT_m1230511-015	NA	05/11/23 14:42
Calibration Check	SLE0209-CCV1	XDT_m1230511-019	NA	05/11/23 15:06
Calibration Blank	SLE0209-CCB1	XDT_m1230511-020	NA	05/11/23 15:13
Instrument RL Check	SLE0209-CRL1	XDT_m1230511-021	NA	05/11/23 15:18
Interference Check A	SLE0209-IFA1	XDT_m1230511-022	NA	05/11/23 15:23
Interference Check B	SLE0209-IFB1	XDT_m1230511-023	NA	05/11/23 15:28
LR200	SLE0209-HCV1	XDT_m1230511-024	NA	05/11/23 15:32
LR300	SLE0209-HCV2	XDT_m1230511-025	NA	05/11/23 15:37
Instrument Blank	SLE0209-IBL2	XDT_m1230511-026	NA	05/11/23 15:50
Instrument Blank	SLE0209-IBL3	XDT_m1230511-027	NA	05/11/23 15:56
Calibration Check	SLE0209-CCV2	XDT_m1230511-028	NA	05/11/23 16:02
Calibration Blank	SLE0209-CCB2	XDT_m1230511-029	NA	05/11/23 16:09
Calibration Check	SLE0209-CCV3	XDT_m1230511-031	NA	05/11/23 16:19
Calibration Blank	SLE0209-CCB3	XDT_m1230511-032	NA	05/11/23 16:27
ZZZZZ	BLE0072-BS2	XDT_m1230511-033	Solid	05/11/23 16:37
ZZZZZ	BLE0342-BLK1	XDT_m1230511-034	Water	05/11/23 16:42
ZZZZZ	BLE0342-BS1	XDT_m1230511-035	Water	05/11/23 16:46
Instrument Blank	SLE0209-IBL4	XDT_m1230511-040	NA	05/11/23 17:10
Instrument Blank	SLE0209-IBL5	XDT_m1230511-042	NA	05/11/23 17:21
Calibration Check	SLE0209-CCV4	XDT_m1230511-043	NA	05/11/23 17:25
Calibration Blank	SLE0209-CCB4	XDT_m1230511-044	NA	05/11/23 17:32

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLE0209
Instrument: ICPMS1
Calibration: GE00042

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	23D0477-04	XDT_m1230511-045	Water	05/11/23 17:42
ZZZZZ	23D0477-08	XDT_m1230511-046	Water	05/11/23 17:43
ZZZZZ	23D0477-10	XDT_m1230511-047	Water	05/11/23 17:44
ZZZZZ	23D0477-12	XDT_m1230511-048	Water	05/11/23 17:46
ZZZZZ	23D0477-18	XDT_m1230511-049	Water	05/11/23 17:47
ZZZZZ	23D0477-20	XDT_m1230511-050	Water	05/11/23 17:48
Instrument Blank	SLE0209-IBL6	XDT_m1230511-054	NA	05/11/23 17:54
Calibration Check	SLE0209-CCV5	XDT_m1230511-055	NA	05/11/23 17:55
Calibration Blank	SLE0209-CCB5	XDT_m1230511-056	NA	05/11/23 17:59
ZZZZZ	23D0477-01	XDT_m1230511-057	Water	05/11/23 18:02
ZZZZZ	23D0477-07	XDT_m1230511-058	Water	05/11/23 18:03
ZZZZZ	23D0477-09	XDT_m1230511-059	Water	05/11/23 18:05
Instrument Blank	SLE0209-IBL7	XDT_m1230511-061	NA	05/11/23 18:08
ZZZZZ	23D0477-02	XDT_m1230511-062	Water	05/11/23 18:09
ZZZZZ	23D0477-03	XDT_m1230511-063	Water	05/11/23 18:10
ZZZZZ	23D0477-06	XDT_m1230511-064	Water	05/11/23 18:12
ZZZZZ	23D0477-11	XDT_m1230511-065	Water	05/11/23 18:13
Instrument Blank	SLE0209-IBL8	XDT_m1230511-066	NA	05/11/23 18:15
Calibration Check	SLE0209-CCV6	XDT_m1230511-067	NA	05/11/23 18:16
Calibration Blank	SLE0209-CCB6	XDT_m1230511-068	NA	05/11/23 18:20
ZZZZZ	23D0477-13	XDT_m1230511-069	Water	05/11/23 18:24
ZZZZZ	23D0477-14	XDT_m1230511-070	Water	05/11/23 18:25
ZZZZZ	23D0477-16	XDT_m1230511-071	Water	05/11/23 18:26
ZZZZZ	23D0477-15	XDT_m1230511-072	Water	05/11/23 18:28
Instrument Blank	SLE0209-IBL9	XDT_m1230511-073	NA	05/11/23 18:29
ZZZZZ	23D0702-04	XDT_m1230511-074	Water	05/11/23 18:34
ZZZZZ	23D0702-04	XDT_m1230511-074	Water	05/11/23 18:34
ZZZZZ	23D0702-04	XDT_m1230511-074	Water	05/11/23 18:34
ZZZZZ	BLE0342-DUP1	XDT_m1230511-075	Water	05/11/23 18:40

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLE0209

SDG: 23C0071
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GE00042

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	BLE0342-MS1	XDT_m1230511-076	Water	05/11/23 18:45
ZZZZZ	BLE0342-MSD1	XDT_m1230511-077	Water	05/11/23 18:50
Instrument Blank	SLE0209-IBLA	XDT_m1230511-078	NA	05/11/23 18:55
Calibration Check	SLE0209-CCV7	XDT_m1230511-079	NA	05/11/23 18:59
Calibration Blank	SLE0209-CCB7	XDT_m1230511-080	NA	05/11/23 19:07
Calibration Check	SLE0209-CCV8	XDT_m1230511-082	NA	05/11/23 19:18
Calibration Blank	SLE0209-CCB8	XDT_m1230511-083	NA	05/11/23 19:25
Calibration Check	SLE0209-CCVA	XDT_m1230511-094	NA	05/11/23 19:55
Calibration Blank	SLE0209-CCBA	XDT_m1230511-095	NA	05/11/23 20:00
ZZZZZ	23D0636-01	XDT_m1230511-096	Water	05/11/23 20:07
ZZZZZ	23D0636-01	XDT_m1230511-096	Water	05/11/23 20:07
ZZZZZ	BLE0298-DUP2	XDT_m1230511-097	Water	05/11/23 20:11
ZZZZZ	BLE0298-MS2	XDT_m1230511-098	Water	05/11/23 20:16
ZZZZZ	BLE0298-MSD2	XDT_m1230511-099	Water	05/11/23 20:20
Instrument Blank	SLE0209-IBLC	XDT_m1230511-100	NA	05/11/23 20:25
ZZZZZ	23D0568-08	XDT_m1230511-101	Solid	05/11/23 20:30
ZZZZZ	23D0568-08	XDT_m1230511-101	Solid	05/11/23 20:30
ZZZZZ	23D0568-08	XDT_m1230511-101	Solid	05/11/23 20:30
ZZZZZ	BLE0143-DUP1	XDT_m1230511-102	Solid	05/11/23 20:35
ZZZZZ	BLE0143-MS1	XDT_m1230511-103	Solid	05/11/23 20:40
ZZZZZ	BLE0143-MSD1	XDT_m1230511-104	Solid	05/11/23 20:44
Instrument Blank	SLE0209-IBLD	XDT_m1230511-105	NA	05/11/23 20:49
Calibration Check	SLE0209-CCVB	XDT_m1230511-106	NA	05/11/23 20:53
Calibration Blank	SLE0209-CCBB	XDT_m1230511-107	NA	05/11/23 21:00
ZZZZZ	23D0568-02	XDT_m1230511-108	Solid	05/11/23 21:06
ZZZZZ	23D0568-02	XDT_m1230511-108	Solid	05/11/23 21:06
ZZZZZ	23D0568-02	XDT_m1230511-108	Solid	05/11/23 21:06
ZZZZZ	23D0568-03	XDT_m1230511-109	Solid	05/11/23 21:11
ZZZZZ	23D0568-03	XDT_m1230511-109	Solid	05/11/23 21:11

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLE0209
Instrument: ICPMS1
Calibration: GE00042

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	23D0568-03	XDT_m1230511-109	Solid	05/11/23 21:11
ZZZZZ	23D0568-04	XDT_m1230511-110	Solid	05/11/23 21:15
ZZZZZ	23D0568-04	XDT_m1230511-110	Solid	05/11/23 21:15
ZZZZZ	23D0568-04	XDT_m1230511-110	Solid	05/11/23 21:15
ZZZZZ	23D0568-05	XDT_m1230511-111	Solid	05/11/23 21:20
ZZZZZ	23D0568-05	XDT_m1230511-111	Solid	05/11/23 21:20
ZZZZZ	23D0568-05	XDT_m1230511-111	Solid	05/11/23 21:20
ZZZZZ	23D0568-06	XDT_m1230511-112	Solid	05/11/23 21:24
ZZZZZ	23D0568-06	XDT_m1230511-112	Solid	05/11/23 21:24
ZZZZZ	23D0568-06	XDT_m1230511-112	Solid	05/11/23 21:24
ZZZZZ	23D0568-07	XDT_m1230511-113	Solid	05/11/23 21:29
ZZZZZ	23D0568-07	XDT_m1230511-113	Solid	05/11/23 21:29
ZZZZZ	23D0568-07	XDT_m1230511-113	Solid	05/11/23 21:29
Instrument Blank	SLE0209-IBLE	XDT_m1230511-114	NA	05/11/23 21:34
Instrument Blank	SLE0209-IBLF	XDT_m1230511-116	NA	05/11/23 21:46
Calibration Check	SLE0209-CCVC	XDT_m1230511-117	NA	05/11/23 21:50
Calibration Blank	SLE0209-CCBC	XDT_m1230511-118	NA	05/11/23 21:58
Calibration Check	SLE0209-CCVD	XDT_m1230511-120	NA	05/11/23 22:08
Calibration Blank	SLE0209-CCBD	XDT_m1230511-121	NA	05/11/23 22:15
ZZZZZ	23A0467-03	XDT_m1230511-122	Solid	05/11/23 22:22
ZZZZZ	23A0467-03	XDT_m1230511-122	Solid	05/11/23 22:22
ZZZZZ	23A0467-03	XDT_m1230511-122	Solid	05/11/23 22:22
LDW23-SS1036	23C0071-03	XDT_m1230511-123	Solid	05/11/23 22:27
LDW23-SS1036	23C0071-03	XDT_m1230511-123	Solid	05/11/23 22:27
LDW23-SS1036	23C0071-03	XDT_m1230511-123	Solid	05/11/23 22:27
ZZZZZ	23D0008-01	XDT_m1230511-124	Solid	05/11/23 22:31
ZZZZZ	23D0008-01	XDT_m1230511-124	Solid	05/11/23 22:31
ZZZZZ	23D0008-01	XDT_m1230511-124	Solid	05/11/23 22:31
ZZZZZ	23D0136-01	XDT_m1230511-125	Solid	05/11/23 22:35

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLE0209
Instrument: ICPMS1
Calibration: GE00042

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	23D0136-01	XDT_m1230511-125	Solid	05/11/23 22:35
ZZZZZ	23D0136-01	XDT_m1230511-125	Solid	05/11/23 22:35
ZZZZZ	23D0136-03	XDT_m1230511-126	Solid	05/11/23 22:40
ZZZZZ	23D0136-03	XDT_m1230511-126	Solid	05/11/23 22:40
ZZZZZ	23D0136-03	XDT_m1230511-126	Solid	05/11/23 22:40
ZZZZZ	23D0396-01	XDT_m1230511-127	Solid	05/11/23 22:44
ZZZZZ	23D0396-01	XDT_m1230511-127	Solid	05/11/23 22:44
ZZZZZ	23D0396-01	XDT_m1230511-127	Solid	05/11/23 22:44
ZZZZZ	23D0396-03	XDT_m1230511-128	Solid	05/11/23 22:48
ZZZZZ	23D0396-03	XDT_m1230511-128	Solid	05/11/23 22:48
ZZZZZ	23D0396-03	XDT_m1230511-128	Solid	05/11/23 22:48
ZZZZZ	23D0394-02	XDT_m1230511-129	Solid	05/11/23 22:53
ZZZZZ	23D0394-02	XDT_m1230511-129	Solid	05/11/23 22:53
ZZZZZ	23D0394-02	XDT_m1230511-129	Solid	05/11/23 22:53
ZZZZZ	23D0394-04	XDT_m1230511-130	Solid	05/11/23 22:57
ZZZZZ	23D0394-04	XDT_m1230511-130	Solid	05/11/23 22:57
ZZZZZ	23D0394-04	XDT_m1230511-130	Solid	05/11/23 22:57
Instrument Blank	SLE0209-IBLG	XDT_m1230511-131	NA	05/11/23 23:02
Calibration Check	SLE0209-CCVE	XDT_m1230511-132	NA	05/11/23 23:07
Calibration Blank	SLE0209-CCBE	XDT_m1230511-133	NA	05/11/23 23:14
ZZZZZ	23D0394-06	XDT_m1230511-134	Solid	05/11/23 23:18
ZZZZZ	23D0394-06	XDT_m1230511-134	Solid	05/11/23 23:18
ZZZZZ	23D0394-06	XDT_m1230511-134	Solid	05/11/23 23:18
ZZZZZ	23D0394-07	XDT_m1230511-135	Solid	05/11/23 23:23
ZZZZZ	23D0394-07	XDT_m1230511-135	Solid	05/11/23 23:23
ZZZZZ	23D0394-07	XDT_m1230511-135	Solid	05/11/23 23:23
ZZZZZ	23D0394-08	XDT_m1230511-136	Solid	05/11/23 23:27
ZZZZZ	23D0394-08	XDT_m1230511-136	Solid	05/11/23 23:27
ZZZZZ	23D0394-08	XDT_m1230511-136	Solid	05/11/23 23:27

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLE0209
Instrument: ICPMS1
Calibration: GE00042

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	23D0394-11	XDT_m1230511-137	Solid	05/11/23 23:31
ZZZZZ	23D0394-11	XDT_m1230511-137	Solid	05/11/23 23:31
ZZZZZ	23D0394-11	XDT_m1230511-137	Solid	05/11/23 23:31
ZZZZZ	23D0394-12	XDT_m1230511-138	Solid	05/11/23 23:36
ZZZZZ	23D0394-12	XDT_m1230511-138	Solid	05/11/23 23:36
ZZZZZ	23D0394-12	XDT_m1230511-138	Solid	05/11/23 23:36
ZZZZZ	23D0394-13	XDT_m1230511-139	Solid	05/11/23 23:40
ZZZZZ	23D0394-13	XDT_m1230511-139	Solid	05/11/23 23:40
ZZZZZ	23D0394-13	XDT_m1230511-139	Solid	05/11/23 23:40
ZZZZZ	23D0393-24	XDT_m1230511-140	Solid	05/11/23 23:44
ZZZZZ	23D0393-24	XDT_m1230511-140	Solid	05/11/23 23:44
ZZZZZ	23D0393-24	XDT_m1230511-140	Solid	05/11/23 23:44
ZZZZZ	23D0393-28	XDT_m1230511-141	Solid	05/11/23 23:49
ZZZZZ	23D0393-28	XDT_m1230511-141	Solid	05/11/23 23:49
ZZZZZ	23D0393-28	XDT_m1230511-141	Solid	05/11/23 23:49
ZZZZZ	23D0393-29	XDT_m1230511-142	Solid	05/11/23 23:53
ZZZZZ	23D0393-29	XDT_m1230511-142	Solid	05/11/23 23:53
ZZZZZ	23D0393-29	XDT_m1230511-142	Solid	05/11/23 23:53
Instrument Blank	SLE0209-IBLH	XDT_m1230511-143	NA	05/11/23 23:58
Calibration Check	SLE0209-CCVF	XDT_m1230511-144	NA	05/12/23 00:02
Calibration Blank	SLE0209-CCBF	XDT_m1230511-145	NA	05/12/23 00:09
ZZZZZ	23D0393-10	XDT_m1230511-146	Solid	05/12/23 00:14
ZZZZZ	23D0393-10	XDT_m1230511-146	Solid	05/12/23 00:14
ZZZZZ	23D0393-10	XDT_m1230511-146	Solid	05/12/23 00:14
ZZZZZ	23D0393-11	XDT_m1230511-147	Solid	05/12/23 00:19
ZZZZZ	23D0393-11	XDT_m1230511-147	Solid	05/12/23 00:19
ZZZZZ	23D0393-11	XDT_m1230511-147	Solid	05/12/23 00:19
ZZZZZ	23D0393-12	XDT_m1230511-148	Solid	05/12/23 00:23
ZZZZZ	23D0393-12	XDT_m1230511-148	Solid	05/12/23 00:23

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLE0209
Instrument: ICPMS1
Calibration: GE00042

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	23D0393-12	XDT_m1230511-148	Solid	05/12/23 00:23
ZZZZZ	23D0393-15	XDT_m1230511-149	Solid	05/12/23 00:27
ZZZZZ	23D0393-15	XDT_m1230511-149	Solid	05/12/23 00:27
ZZZZZ	23D0393-15	XDT_m1230511-149	Solid	05/12/23 00:27
ZZZZZ	23D0393-16	XDT_m1230511-150	Solid	05/12/23 00:34
ZZZZZ	23D0393-16	XDT_m1230511-150	Solid	05/12/23 00:34
ZZZZZ	23D0393-16	XDT_m1230511-150	Solid	05/12/23 00:34
ZZZZZ	23D0393-17	XDT_m1230511-151	Solid	05/12/23 00:38
ZZZZZ	23D0393-17	XDT_m1230511-151	Solid	05/12/23 00:38
ZZZZZ	23D0393-17	XDT_m1230511-151	Solid	05/12/23 00:38
ZZZZZ	23D0393-18	XDT_m1230511-152	Solid	05/12/23 00:43
ZZZZZ	23D0393-18	XDT_m1230511-152	Solid	05/12/23 00:43
ZZZZZ	23D0393-18	XDT_m1230511-152	Solid	05/12/23 00:43
ZZZZZ	23D0393-19	XDT_m1230511-153	Solid	05/12/23 00:47
ZZZZZ	23D0393-19	XDT_m1230511-153	Solid	05/12/23 00:47
ZZZZZ	23D0393-19	XDT_m1230511-153	Solid	05/12/23 00:47
ZZZZZ	23D0393-22	XDT_m1230511-154	Solid	05/12/23 00:51
ZZZZZ	23D0393-22	XDT_m1230511-154	Solid	05/12/23 00:51
ZZZZZ	23D0393-22	XDT_m1230511-154	Solid	05/12/23 00:51
Instrument Blank	SLE0209-IBLI	XDT_m1230511-155	NA	05/12/23 00:56
Calibration Check	SLE0209-CCVG	XDT_m1230511-156	NA	05/12/23 01:00
Calibration Blank	SLE0209-CCBG	XDT_m1230511-157	NA	05/12/23 01:07
ZZZZZ	23D0393-04	XDT_m1230511-162	Solid	05/12/23 01:29
ZZZZZ	23D0393-04	XDT_m1230511-162	Solid	05/12/23 01:29
ZZZZZ	BLE0072-DUP2	XDT_m1230511-163	Solid	05/12/23 01:34
ZZZZZ	BLE0072-MS2	XDT_m1230511-164	Solid	05/12/23 01:38
ZZZZZ	BLE0072-MSD2	XDT_m1230511-165	Solid	05/12/23 01:43
ZZZZZ	BLE0072-PS2	XDT_m1230511-166	Solid	05/12/23 01:49
Instrument Blank	SLE0209-IBLJ	XDT_m1230511-167	NA	05/12/23 01:54

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLE0209

SDG: 23C0071
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GE00042

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Calibration Check	SLE0209-CCVH	XDT_m1230511-168	NA	05/12/23 01:58
Calibration Blank	SLE0209-CCBH	XDT_m1230511-169	NA	05/12/23 02:05
ZZZZZ	23D0568-03RE1	XDT_m1230511-170	Solid	05/12/23 02:09
ZZZZZ	23D0568-07RE1	XDT_m1230511-171	Solid	05/12/23 02:14
ZZZZZ	23D0568-07RE1	XDT_m1230511-171	Solid	05/12/23 02:14
ZZZZZ	23D0568-08RE1	XDT_m1230511-172	Solid	05/12/23 02:18
ZZZZZ	BLE0143-DUP2	XDT_m1230511-173	Solid	05/12/23 02:22
ZZZZZ	BLE0143-MS2	XDT_m1230511-174	Solid	05/12/23 02:27
ZZZZZ	BLE0143-MSD2	XDT_m1230511-175	Solid	05/12/23 02:31
Instrument Blank	SLE0209-IBLK	XDT_m1230511-176	NA	05/12/23 02:36
Instrument Blank	SLE0209-IBLL	XDT_m1230511-179	NA	05/12/23 02:56
Calibration Check	SLE0209-CCVI	XDT_m1230511-180	NA	05/12/23 03:00
Calibration Blank	SLE0209-CCBI	XDT_m1230511-181	NA	05/12/23 03:07
Calibration Check	SLE0209-CCVJ	XDT_m1230511-183	NA	05/12/23 03:16
Calibration Blank	SLE0209-CCBJ	XDT_m1230511-184	NA	05/12/23 03:23
ZZZZZ	23D0393-06	XDT_m1230511-186	Solid	05/12/23 03:32
ZZZZZ	23D0393-06	XDT_m1230511-186	Solid	05/12/23 03:32
ZZZZZ	23D0393-06	XDT_m1230511-186	Solid	05/12/23 03:32
Instrument Blank	SLE0209-IBLM	XDT_m1230511-188	NA	05/12/23 03:46
Instrument Blank	SLE0209-IBLN	XDT_m1230511-194	NA	05/12/23 04:12
Calibration Check	SLE0209-CCVK	XDT_m1230511-195	NA	05/12/23 04:17
Calibration Blank	SLE0209-CCBK	XDT_m1230511-196	NA	05/12/23 04:24
Instrument Blank	SLE0209-IBLO	XDT_m1230511-206	NA	05/12/23 05:08
Calibration Check	SLE0209-CCVL	XDT_m1230511-207	NA	05/12/23 05:12
Calibration Blank	SLE0209-CCBL	XDT_m1230511-208	NA	05/12/23 05:19
ZZZZZ	23D0598-06	XDT_m1230511-214	Water	05/12/23 05:47
ZZZZZ	23D0598-08	XDT_m1230511-215	Water	05/12/23 05:51
ZZZZZ	23D0598-10	XDT_m1230511-216	Water	05/12/23 05:55
ZZZZZ	23D0598-12	XDT_m1230511-217	Water	05/12/23 06:00

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLE0209

SDG: 23C0071
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GE00042

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	23D0598-12	XDT_m1230511-217	Water	05/12/23 06:00
Instrument Blank	SLE0209-IBLP	XDT_m1230511-218	NA	05/12/23 06:04
Calibration Check	SLE0209-CCVM	XDT_m1230511-219	NA	05/12/23 06:09
Calibration Blank	SLE0209-CCBM	XDT_m1230511-220	NA	05/12/23 06:16
Instrument Blank	SLE0209-IBLQ	XDT_m1230511-225	NA	05/12/23 06:37
Instrument Blank	SLE0209-IBLR	XDT_m1230511-230	NA	05/12/23 07:00
Calibration Check	SLE0209-CCVN	XDT_m1230511-231	NA	05/12/23 07:04
Calibration Blank	SLE0209-CCBN	XDT_m1230511-232	NA	05/12/23 07:11
Calibration Check	SLE0209-CCVO	XDT_m1230511-234	NA	05/12/23 07:20
Calibration Blank	SLE0209-CCBO	XDT_m1230511-235	NA	05/12/23 07:27
Instrument Blank	SLE0209-IBLS	XDT_m1230511-245	NA	05/12/23 08:11
Calibration Check	SLE0209-CCVP	XDT_m1230511-246	NA	05/12/23 08:15
Calibration Blank	SLE0209-CCBP	XDT_m1230511-247	NA	05/12/23 08:22

ICP INTERFERENCE CHECK SAMPLE

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00007
Sequence: SLE0017
Standard ID: L004688

Lab Sample ID	Analyte	True	Found	%R	Units
SLE0017-IFA1	Chromium-52	0	0.6540		ug/L
	Chromium-53	0	4.7850		ug/L
	Lead-208	0	0.0330		ug/L
	Silver-107	0	0.0400		ug/L

* Indicates %R outside of QC limits

NOTE: True value and %R are populated only for analytes found in the interference check standards, and will be seen only if those analytes were requested.

ICP INTERFERENCE CHECK SAMPLE

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00007
Sequence: SLE0017
Standard ID: L004688

Lab Sample ID	Analyte	True	Found	%R	Units
SLE0017-IFB1	Chromium-52	20.000	19.156	95.8	ug/L
	Chromium-53	20.000	23.432	117	ug/L
	Lead-208	0	0.0140		ug/L
	Silver-107	20.000	18.383	91.9	ug/L

* Indicates %R outside of QC limits

NOTE: True value and %R are populated only for analytes found in the interference check standards, and will be seen only if those analytes were requested.

Analytical Resources, LLC
Analytical Chemists and Consultants

ICP INTERFERENCE CHECK SAMPLE

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00013
Sequence: SLE0043
Standard ID: L004688

Lab Sample ID	Analyte	True	Found	%R	Units
SLE0043-IFA1	Chromium-52	0	0.6710		ug/L
	Chromium-53	0	4.4590		ug/L
	Lead-208	0	0.0370		ug/L
	Silver-107	0	0.0150		ug/L

* Indicates %R outside of QC limits

NOTE: True value and %R are populated only for analytes found in the interference check standards, and will be seen only if those analytes were requested.

ICP INTERFERENCE CHECK SAMPLE

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00013
Sequence: SLE0043
Standard ID: L004688

Lab Sample ID	Analyte	True	Found	%R	Units
SLE0043-IFB1	Chromium-52	20.000	19.543	97.7	ug/L
	Chromium-53	20.000	23.879	119	ug/L
	Lead-208	0	0.0200		ug/L
	Silver-107	20.000	18.302	91.5	ug/L

* Indicates %R outside of QC limits

NOTE: True value and %R are populated only for analytes found in the interference check standards, and will be seen only if those analytes were requested.

ICP INTERFERENCE CHECK SAMPLE

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00019
Sequence: SLE0071
Standard ID: L004688

Lab Sample ID	Analyte	True	Found	%R	Units
SLE0071-IFA1	Lead-208	0	0.0270		ug/L

* Indicates %R outside of QC limits

NOTE: True value and %R are populated only for analytes found in the interference check standards, and will be seen only if those analytes were requested.

ICP INTERFERENCE CHECK SAMPLE

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00019
Sequence: SLE0071
Standard ID: L004688

Lab Sample ID	Analyte	True	Found	%R	Units
SLE0071-IFB1	Lead-208	0	0.0210		ug/L

* Indicates %R outside of QC limits
NOTE: True value and %R are populated only for analytes found in the interference check standards, and will be seen only if those analytes were requested.

ICP INTERFERENCE CHECK SAMPLE

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00040
Sequence: SLE0204
Standard ID: L004688

Lab Sample ID	Analyte	True	Found	%R	Units
SLE0204-IFA1	Chromium-52	0	0.6610		ug/L
	Chromium-53	0	1.7410		ug/L
	Lead-208	0	0.0270		ug/L
	Silver-107	0	0.0050		ug/L

* Indicates %R outside of QC limits

NOTE: True value and %R are populated only for analytes found in the interference check standards, and will be seen only if those analytes were requested.

ICP INTERFERENCE CHECK SAMPLE

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00040
Sequence: SLE0204
Standard ID: L004688

Lab Sample ID	Analyte	True	Found	%R	Units
SLE0204-IFB1	Chromium-52	20.000	20.186	101	ug/L
	Chromium-53	20.000	21.276	106	ug/L
	Lead-208	0	0.0180		ug/L
	Silver-107	20.000	18.002	90.0	ug/L

* Indicates %R outside of QC limits

NOTE: True value and %R are populated only for analytes found in the interference check standards, and will be seen only if those analytes were requested.

ICP INTERFERENCE CHECK SAMPLE

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00042
Sequence: SLE0209
Standard ID: L005318

Lab Sample ID	Analyte	True	Found	%R	Units
SLE0209-IFA1	Chromium-52	0	0.6190		ug/L
	Chromium-53	0	1.6910		ug/L
	Lead-208	0	0.0170		ug/L
	Silver-107	0	0.0040		ug/L

* Indicates %R outside of QC limits

NOTE: True value and %R are populated only for analytes found in the interference check standards, and will be seen only if those analytes were requested.

ICP INTERFERENCE CHECK SAMPLE

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00042
Sequence: SLE0209
Standard ID: L005318

Lab Sample ID	Analyte	True	Found	%R	Units
SLE0209-IFB1	Chromium-52	20.000	19.309	96.5	ug/L
	Chromium-53	20.000	20.701	104	ug/L
	Lead-208	0	0.0190		ug/L
	Silver-107	20.000	18.557	92.8	ug/L

* Indicates %R outside of QC limits

NOTE: True value and %R are populated only for analytes found in the interference check standards, and will be seen only if those analytes were requested.

DETECTION LEVEL STANDARD
EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00007
Sequence: SLE0017
Lab Sample ID: SLE0017-CRL1

Analyte	True	Found	%R	Units	QC Limts
Chromium-52	0.50000	0.471	94.2	ug/L	50 - 150
Chromium-53	0.50000	0.467	93.4	ug/L	50 - 150
Lead-208	0.10000	0.0950	95.0	ug/L	50 - 150
Silver-107	0.20000	0.192	96.0	ug/L	50 - 150

* Values outside of QC limits

DETECTION LEVEL STANDARD
EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00013
Sequence: SLE0043
Lab Sample ID: SLE0043-CRL1

Analyte	True	Found	%R	Units	QC Limts
Chromium-52	0.50000	0.518	104	ug/L	50 - 150
Chromium-53	0.50000	0.521	104	ug/L	50 - 150
Lead-208	0.10000	0.105	105	ug/L	50 - 150
Silver-107	0.20000	0.216	108	ug/L	50 - 150

* Values outside of QC limits

DETECTION LEVEL STANDARD
EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00019
Sequence: SLE0071
Lab Sample ID: SLE0071-CRL1

Analyte	True	Found	%R	Units	QC Limts
Lead-208	0.10000	0.111	111	ug/L	50 - 150

* Values outside of QC limits

DETECTION LEVEL STANDARD
EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00040
Sequence: SLE0204
Lab Sample ID: SLE0204-CRL1

Analyte	True	Found	%R	Units	QC Limts
Chromium-52	0.50000	0.523	105	ug/L	50 - 150
Chromium-53	0.50000	0.501	100	ug/L	50 - 150
Lead-208	0.10000	0.107	107	ug/L	50 - 150
Silver-107	0.20000	0.202	101	ug/L	50 - 150

* Values outside of QC limits

DETECTION LEVEL STANDARD
EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00042
Sequence: SLE0209
Lab Sample ID: SLE0209-CRL1

Analyte	True	Found	%R	Units	QC Limts
Chromium-52	0.50000	0.497	99.4	ug/L	50 - 150
Chromium-53	0.50000	0.480	96.0	ug/L	50 - 150
Lead-208	0.10000	0.113	113	ug/L	50 - 150
Silver-107	0.20000	0.206	103	ug/L	50 - 150

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

HIGH-CONCENTRATION CALIBRATION VERIFICATION

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GE00007
Laboratory ID: SLE0017-HCV1
Sequence: SLE0017
Standard ID: L004780

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Chromium-52	200.00	191	-4.7	10.00
Chromium-53	200.00	188	-5.9	10.00
Lead-208	200.00	205	2.5	10.00
Silver-107	200.00	195	-2.4	10.00

* Values outside of QC limits

HIGH-CONCENTRATION CALIBRATION VERIFICATION

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GE00007
Laboratory ID: SLE0017-HCV2
Sequence: SLE0017
Standard ID: L004781

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Chromium-52	300.00	296	-1.4	10.00
Chromium-53	300.00	290	-3.4	10.00
Lead-208	300.00	315	5.1	10.00
Silver-107	300.00	290	-3.3	10.00

* Values outside of QC limits

HIGH-CONCENTRATION CALIBRATION VERIFICATION

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GE00013
Laboratory ID: SLE0043-HCV1
Sequence: SLE0043
Standard ID: L004780

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Chromium-52	200.00	194	-2.9	10.00
Chromium-53	200.00	196	-1.9	10.00
Lead-208	200.00	212	5.9	10.00
Silver-107	200.00	189	-5.3	10.00

* Values outside of QC limits

HIGH-CONCENTRATION CALIBRATION VERIFICATION

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GE00013
Laboratory ID: SLE0043-HCV2
Sequence: SLE0043
Standard ID: L004781

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Chromium-52	300.00	303	1.1	10.00
Chromium-53	300.00	300	0.08	10.00
Lead-208	300.00	337	12.5	10.00
Silver-107	300.00	293	-2.3	10.00

* Values outside of QC limits

HIGH-CONCENTRATION CALIBRATION VERIFICATION

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GE00019
Laboratory ID: SLE0071-HCV1
Sequence: SLE0071
Standard ID: L004780

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Lead-208	200.00	201	0.5	10.00

* Values outside of QC limits

HIGH-CONCENTRATION CALIBRATION VERIFICATION

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GE00019
Laboratory ID: SLE0071-HCV2
Sequence: SLE0071
Standard ID: L004781

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Lead-208	300.00	305	1.7	10.00

* Values outside of QC limits

HIGH-CONCENTRATION CALIBRATION VERIFICATION

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GE00040
Laboratory ID: SLE0204-HCV1
Sequence: SLE0204
Standard ID: L004780

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Chromium-52	200.00	198	-0.8	10.00
Chromium-53	200.00	195	-2.5	10.00
Lead-208	200.00	200	0.004	10.00
Silver-107	200.00	194	-3.2	10.00

* Values outside of QC limits

HIGH-CONCENTRATION CALIBRATION VERIFICATION

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GE00040
Laboratory ID: SLE0204-HCV2
Sequence: SLE0204
Standard ID: L004781

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Chromium-52	300.00	306	1.9	10.00
Chromium-53	300.00	295	-1.7	10.00
Lead-208	300.00	317	5.5	10.00
Silver-107	300.00	311	3.6	10.00

* Values outside of QC limits

HIGH-CONCENTRATION CALIBRATION VERIFICATION

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GE00042
Laboratory ID: SLE0209-HCV1
Sequence: SLE0209
Standard ID: L004780

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Chromium-52	200.00	193	-3.3	10.00
Chromium-53	200.00	190	-5.1	10.00
Lead-208	200.00	195	-2.3	10.00
Silver-107	200.00	201	0.3	10.00

* Values outside of QC limits

HIGH-CONCENTRATION CALIBRATION VERIFICATION

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GE00042
Laboratory ID: SLE0209-HCV2
Sequence: SLE0209
Standard ID: L004781

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Chromium-52	300.00	305	1.7	10.00
Chromium-53	300.00	292	-2.8	10.00
Lead-208	300.00	300	-0.02	10.00
Silver-107	300.00	295	-1.5	10.00

* Values outside of QC limits

HOLDING TIME SUMMARY

Analysis: EPA 6020B

Laboratory: Analytical Resources, LLC SDG: 23C0071

Client: Anchor QEA, LLC Project: AOC5 MR Phase 1

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
LDW23-SS1000 23C0071-01	03/02/23 09:33	03/02/23 16:34	04/19/23 12:43	48	180	05/10/23 23:33	70	180	
LDW23-SS1037 23C0071-02	03/02/23 09:56	03/02/23 16:34	04/19/23 12:43	48	180	05/10/23 23:37	70	180	
LDW23-SS1036 23C0071-03	03/02/23 10:10	03/02/23 16:34	04/19/23 12:43	48	180	05/11/23 22:27	71	180	
LDW23-SS1044 23C0071-04	03/02/23 10:22	03/02/23 16:34	04/19/23 12:43	48	180	05/10/23 23:46	70	180	
LDW23-SS1048 23C0071-05	03/02/23 10:32	03/02/23 16:34	04/19/23 12:43	48	180	05/10/23 23:50	70	180	
LDW23-SS1054 23C0071-06	03/02/23 10:41	03/02/23 16:34	04/19/23 12:43	48	180	05/10/23 23:55	70	180	

* Indicates hold time exceedance.

METHOD DETECTION AND REPORTING LIMITS

EPA 6020B

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Matrix: Solid
Instrument: ICPMS1

Analyte	MDL	RL	Units
Chromium-52	0.26	0.50	mg/kg
Chromium-53	0.24	0.50	mg/kg
Lead-208	0.05	0.10	mg/kg
Silver-107	0.02	0.20	mg/kg

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGCU10
Lot Number:	P2-CU682108
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Copper
Starting Material:	Cu Metal
Starting Material Lot#:	2095
Starting Material Purity:	99.9996%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10013 ± 30 µg/mL

Density: 1.032 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **9977 ± 50 µg/mL**
ICP Assay NIST SRM 3114 Lot Number: 121207

Assay Method #2 **10024 ± 26 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **10007 ± 46 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.007542	M	Eu	<	0.000942	O	Na		0.001434	M	Se	<	0.016971	M	Zn	<	0.005657
O	Al	<	0.000609	O	Fe		0.008700	M	Nb	<	0.000942	O	Si		0.003052	M	Zr	<	0.000942
M	As	<	0.010371	M	Ga	<	0.000942	M	Nd	<	0.000942	M	Sm	<	0.000942				
M	Au	<	0.001885	M	Gd	<	0.000942	M	Ni		0.003781	M	Sn	<	0.005657				
O	B		0.003663	M	Ge	<	0.005657	M	Os	<	0.000942	M	Sr	<	0.000942				
M	Ba		0.004253	M	Hf	<	0.000942	O	P	<	0.031668	M	Ta	<	0.000942				
M	Be	<	0.000942	O	Hg	<	0.007064	M	Pb		0.005789	M	Tb	<	0.000942				
M	Bi	<	0.000942	M	Ho	<	0.000942	M	Pd	<	0.000942	M	Te	<	0.004714				
O	Ca		0.002304	M	In	<	0.000942	M	Pr	<	0.000942	M	Th	<	0.000942				
M	Cd	<	0.000942	M	Ir	<	0.000942	M	Pt	<	0.000942	O	Ti	<	0.002801				
M	Ce	<	0.000942	O	K		0.000763	M	Rb	<	0.000942	M	Tl	<	0.000942				
M	Co		0.001890	M	La	<	0.000942	M	Re	<	0.000942	M	Tm	<	0.000942				
M	Cr	<	0.005657	O	Li	<	0.000243	i	Rh	<		M	U	<	0.000942				
M	Cs	<	0.000942	M	Lu	<	0.000942	M	Ru	<	0.039588	M	V	<	0.003771				
s	Cu	<		O	Mg		0.000320	O	S		0.007174	M	W	<	0.005657				
M	Dy	<	0.000942	O	Mn		0.000793	M	Sb	<	0.001885	M	Y	<	0.000942				
M	Er	<	0.000942	M	Mo	<	0.005657	M	Sc	<	0.000942	M	Yb	<	0.000942				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 63.55 +2 6 $Cu(H_2O)_6^{2+}$

Chemical Compatibility -Stable in HCl, HNO_3, H_2SO_4, HF, H_3PO_4. Avoid basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO_3 / LDPE container.

Cu Containing Samples (Preparation and Solution) -Metal (soluble in HNO_3); Oxides (Soluble in HCl); Ores (Dissolve in HCl / HNO_3).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 63 amu	10 ppt	n/a	40Ar23Na 47Ti16O, 14N12C37Cl, 16O12C35Cl, 23Na40Ca
ICP-OES 219.958 nm	0.01/.002 µg/mL	1	Th, Ta, Nb, U, Hf
ICP-OES 224.700 nm	0.01/.001 µg/mL	1	Pb, Ir, Ni, W
ICP-OES 324.754 nm	0.06/.001 µg/mL		Nb, U, Th, Mo, Hf

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

August 24, 2019

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **August 24, 2023**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

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Refine your results. Redefine your industry.

Certificate of Analysis

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Christiansburg, VA 24073 USA
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F: 540-585-3012
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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGPB10
Lot Number:	S2-PB713228
Matrix:	0.5% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Lead
Starting Material:	Lead Nitrate
Starting Material Lot#:	2343
Starting Material Purity:	99.9995%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10042 ± 31 µg/mL

Density: 1.015 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10024 ± 41 µg/mL**
ICP Assay NIST SRM 3128 Lot Number: 101026

Assay Method #2 **10054 ± 32 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000310	M	Eu	<	0.000310	M	Na		0.001470	M	Se	<	0.009100	O	Zn	0.006155
O	Al		0.017098	O	Fe		0.002496	M	Nb	<	0.000310	O	Si		0.003761	O	Zr	< 0.001700
M	As	<	0.003100	M	Ga	<	0.000310	M	Nd	<	0.000310	M	Sm	<	0.000310			
M	Au	<	0.000910	M	Gd	<	0.000310	O	Ni		0.001709	M	Sn	<	0.001300			
O	B	<	0.005600	M	Ge	<	0.002200	M	Os	<	0.000310	O	Sr		0.000444			
O	Ba		0.007865	M	Hf	<	0.000310	O	P	<	0.038000	M	Ta	<	0.000310			
O	Be	<	0.000320	M	Hg	<	0.002200	s	Pb	<		M	Tb	<	0.000610			
M	Bi	<	0.028000	M	Ho	<	0.000310	M	Pd	<	0.000610	M	Te	<	0.000310			
O	Ca		0.019834	M	In	<	0.000310	M	Pr	<	0.000310	M	Th	<	0.000310			
O	Cd	<	0.000630	M	Ir	<	0.000310	M	Pt	<	0.000910	O	Ti		0.005129			
M	Ce		0.004787	O	K		0.008207	M	Rb	<	0.006700	M	Tl	<	0.016000			
M	Co	<	0.000610	M	La	<	0.001900	M	Re	<	0.000310	M	Tm	<	0.000310			
O	Cr	<	0.001500	O	Li	<	0.000110	O	Rh	<	0.007700	M	U	<	0.000310			
M	Cs	<	0.006100	M	Lu	<	0.000310	M	Ru	<	0.001300	M	V	<	0.001600			
M	Cu	<	0.001600	O	Mg		0.003317	O	S	<	0.052000	M	W	<	0.000910			
M	Dy	<	0.000310	O	Mn	<	0.001600	O	Sb	<	0.015000	M	Y	<	0.000310			
M	Er	<	0.000310	M	Mo	<	0.000610	O	Sc	<	0.000630	M	Yb	<	0.000310			

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 207.20 +2 6 $Pb(H_2O)_6^{+2}$

Chemical Compatibility - Soluble in HCl, HF and HNO_3. Avoid H_2SO_4. Stable with most metals and inorganic anions forming insoluble carbonate, borate, sulfate, sulfite, sulfide, phosphate, oxalate, chromate, tannate, iodate, and cyanide in neutral aqueous media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO_3 / LDPE container.

Pb Containing Samples (Preparation and Solution) -Metal (Best dissolved in 1:1 H_2O / HNO_3); Oxides (The many different Pb oxides are soluble in HNO_3 with the exception of PbO_2 which is soluble in HCl or HF); Ores and Alloys (Best attacked using 1:1 H_2O / HNO_3); Organic Matrices (Dry ash and dissolve in dilute HCl).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 208 amu	5 ppt	n/a	192Pt16O, 192Os16O
ICP-OES 168.215 nm	0.03 / 0.003 µg/mL	1	Co
ICP-OES 217.000 nm	0.09 / 0.03 µg/mL	1	W, Ir, Hf, Sb, Th
ICP-OES 220.353 nm	0.04 / 0.006 µg/mL	1	Bi, Nb

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

January 10, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **January 10, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

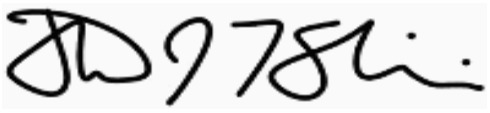
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGZN10
Lot Number:	S2-ZN711249
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Zinc
Starting Material:	Zinc Metal
Starting Material Lot#:	2349
Starting Material Purity:	99.9988%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 9992 ± 30 µg/mL

Density: 1.029 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **9981 ± 56 µg/mL**
ICP Assay NIST SRM 3168a Lot Number: 120629

Assay Method #2 **9987 ± 32 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **10002 ± 32 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.002000	M	Eu	<	0.000500	O	Na		0.008713	M	Se	<	0.048000	s	Zn	<	
O	Al	<	0.011000	O	Fe		0.015467	M	Nb	<	0.000500	O	Si		0.007842	M	Zr	<	0.000500
O	As	<	0.012000	M	Ga	<	0.004900	M	Nd	<	0.000500	M	Sm	<	0.000500				
M	Au	<	0.006500	M	Gd	<	0.000500	O	Ni		0.003049	M	Sn		0.002614				
O	B	<	0.019000	M	Ge	<	0.009100	M	Os	<	0.000500	M	Sr	<	0.000500				
M	Ba	<	0.000500	M	Hf	<	0.000500	O	P	<	0.059000	M	Ta	<	0.000500				
O	Be	<	0.000230	O	Hg	<	0.003800	M	Pb		0.016774	M	Tb	<	0.000500				
M	Bi	<	0.002400	M	Ho	<	0.000500	M	Pd	<	0.001000	M	Te	<	0.017000				
O	Ca		0.052283	M	In	<	0.003500	M	Pr	<	0.000500	M	Th	<	0.000500				
O	Cd		0.000588	M	Ir	<	0.001000	M	Pt	<	0.000500	M	Ti	<	0.002000				
M	Ce	<	0.000500	O	K		0.017209	M	Rb	<	0.002500	M	Tl	<	0.000500				
M	Co		0.000653	M	La	<	0.000500	M	Re	<	0.000500	M	Tm	<	0.000500				
O	Cr		0.001089	O	Li	<	0.000230	M	Rh	<	0.000500	M	U	<	0.000500				
M	Cs	<	0.000500	M	Lu	<	0.000500	M	Ru	<	0.005000	M	V	<	0.000500				
O	Cu		0.001938	O	Mg		0.000871	O	S	<	0.048000	M	W	<	0.001000				
M	Dy	<	0.000500	O	Mn		0.000172	M	Sb	<	0.004300	M	Y	<	0.000500				
M	Er	<	0.000500	M	Mo	<	0.001500	O	Sc	<	0.000900	M	Yb	<	0.000500				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 65.39 +2 4 Zn(OH)(aq)1+
Chemical Compatibility -Stable in HCl, HNO3, H2SO4 ,HF, H3PO4. Avoid basic media forming insoluble carbonate and hydroxide. Stable with most metals and inorganic anions in acidic media.
Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO3 / LDPE container.
Zn Containing Samples (Preparation and Solution) -Metal (soluble in HNO3); Oxides (Soluble in HCl); Ores (Dissolve in HCl / HNO3); Organic based (dry ash at 4500C and dissolve ash in HCl) (sulfuric/peroxide acid digestion)
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 66 amu	7 ppt	N/A	50Ti16O,50Cr16O, 50V16O, 34S16O2, 32S16O18O, 32S17O2, 33S16O17O, 32S34S, 33S2
ICP-OES 202.548 nm	0.004/0.0002 µg/mL	1	Nb, Cu, Co, Hf
ICP-OES 206.200 nm	0.006/0.0006 µg/mL	1	Sb, Ta, Bi, Os
ICP-OES 213.856 nm	0.002/0.0004 µg/mL	1	Ni, Cu, V

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

November 22, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **November 22, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

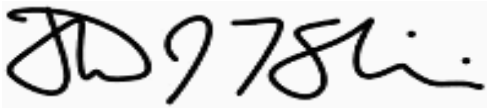
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGSE10
Lot Number:	S2-SE711004
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Selenium
Starting Material:	Se Metal
Starting Material Lot#:	1962
Starting Material Purity:	99.9991%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 9955 ± 61 µg/mL

Density: 1.035 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **9955 ± 50 µg/mL**
ICP Assay NIST SRM 3149 Lot Number: 100901

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.002242	M	Eu	<	0.000373	O	Na		0.013654	s	Se	<		O	Zn		0.002374
M	Al		0.004450	M	Fe		0.008478	O	Nb	<	0.002975	O	Si		0.006249	M	Zr	<	0.001868
O	As	<	0.022040	M	Ga	<	0.000373	M	Nd	<	0.000373	M	Sm	<	0.000373				
M	Au	<	0.000373	M	Gd	<	0.000373	O	Ni		0.001843	M	Sn		0.000847				
O	B	<	0.007714	M	Ge	<	0.002616	M	Os	<	0.000373	M	Sr	<	0.001121				
M	Ba	<	0.001495	M	Hf	<	0.000373	O	P	<	0.022040	M	Ta	<	0.000373				
M	Be	<	0.001495	M	Hg	<	0.002240	M	Pb		0.006358	M	Tb	<	0.006353				
M	Bi	<	0.000373	M	Ho	<	0.000373	M	Pd	<	0.000373	M	Te	<	0.012707				
O	Ca		0.006530	M	In	<	0.000373	M	Pr	<	0.001495	M	Th	<	0.002990				
M	Cd		0.001165	M	Ir	<	0.000373	M	Pt	<	0.000373	M	Ti	<	0.003363				
M	Ce	<	0.000373	O	K		0.001999	M	Rb	<	0.001868	M	Tl		0.008584				
M	Co	<	0.000373	M	La	<	0.001121	M	Re	<	0.000373	M	Tm	<	0.000373				
M	Cr		0.002861	O	Li		0.000062	M	Rh	<	0.000373	M	U	<	0.000373				
M	Cs	<	0.001121	M	Lu	<	0.000373	M	Ru	<	0.001493	M	V	<	0.000747				
M	Cu	<	0.000747	O	Mg		0.001156	O	S		0.024591	M	W	<	0.002242				
M	Dy	<	0.000373	M	Mn	<	0.000373	M	Sb	<	0.002242	M	Y	<	0.000373				
M	Er	<	0.000373	O	Mo	<	0.003195	M	Sc	<	0.001121	M	Yb	<	0.000373				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 78.96 +4 6 H_2SeO_3

Chemical Compatibility -Soluble in HCl, HNO_3,H_3PO_4, H_2SO_4 and HF aqueous matrices and water. It is stable with most inorganic anions but many cationic metals form the insoluble selenites under pH neutral conditions. When fluorinated and/or under acidic conditions precipitation is typically not a problem at moderate to low concentrations.

Stability - 2-100 ppb levels stable for months alone or mixed with other elements at equivalent levels in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO_3 / LDPE container.

Se Containing Samples (Preparation and Solution) -Metal (soluble in HNO_3); Oxides (readily soluble in water); Minerals and alloys (acid digestion with HNO_3or HNO_3 / HF); Organic Matrices (acid digestion with hot concentrated H_2SO_4 accompanied by the careful dropwise addition of H_2O_2 until clear).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 82 amu	200 ppt	N/A	12C35Cl2
ICP-OES 196.026 nm	0.08/0.006 µg/mL	1	Fe
ICP-OES 203.985 nm	0.2/0.05 µg/mL	1	Sb, Ir, Cr, Ta
ICP-OES 206.279 nm	0.3/0.16 µg/mL	1	Cr, Pt

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

November 17, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **November 17, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Supervisor, Product Documentation

Certificate Approved By:

Michael Booth
Director, Technical

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGMO10
Lot Number:	S2-MO706255
Matrix:	H2O tr. NH4OH
Value / Analyte(s):	10 000 µg/mL ea: Molybdenum
Starting Material:	Ammonium Molybdate
Starting Material Lot#:	2361
Starting Material Purity:	99.9893%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10026 ± 47 µg/mL

Density: 1.011 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10032 ± 68 µg/mL**
ICP Assay NIST SRM 3134 Lot Number: 130418

Assay Method #2 **10020 ± 65 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000590	M	Eu	<	0.000300	M	Na		0.008739	M	Se	<	0.008000	M	Zn		0.005942
M	Al		0.005592	M	Fe	<	0.006500	M	Nb	<	0.029000	i	Si	<		M	Zr	<	0.001800
M	As	<	0.002100	M	Ga	<	0.000300	i	Nd	<		M	Sm	<	0.000300				
M	Au	<	0.000300	M	Gd	<	0.000300	M	Ni	<	0.008000	M	Sn	<	0.008900				
M	B	<	0.003300	M	Ge	<	0.000300	M	Os	<	0.000590	M	Sr		0.001747				
M	Ba		0.016778	M	Hf	<	0.001800	i	P	<		M	Ta	<	0.004200				
M	Be	<	0.000890	M	Hg	<	0.003300	M	Pb	<	0.000300	M	Tb	<	0.000300				
M	Bi	<	0.000890	M	Ho	<	0.000300	M	Pd	<	0.001800	M	Te	<	0.021000				
O	Ca		0.062920	M	In	<	0.032000	M	Pr	<	0.013000	M	Th	<	0.000300				
O	Cd	<	0.026000	M	Ir	<	0.000300	M	Pt	<	0.000300	O	Ti	<	0.032000				
M	Ce	<	0.008300	M	K		1.293372	M	Rb		0.045442	M	Tl		0.012584				
M	Co		0.005942	M	La	<	0.000300	M	Re	<	0.000300	M	Tm	<	0.000300				
M	Cr		0.005243	O	Li		0.000594	M	Rh	<	0.000300	M	U	<	0.005300				
M	Cs		0.005243	M	Lu	<	0.000300	M	Ru	<	0.079000	M	V	<	0.000890				
M	Cu		0.022371	M	Mg		0.005592	i	S	<		M	W		0.873900				
M	Dy	<	0.000300	M	Mn	<	0.005900	M	Sb		0.015031	M	Y	<	0.000300				
M	Er	<	0.000300	s	Mo	<		M	Sc	<	0.001200	M	Yb	<	0.000300				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 95.94 +6 6,7,8,9 [MoO4]-2(chemical form as received)

Chemical Compatibility -Mo is received in a NH4OH matrix giving the operator the option of using HCl or HF to stabilize acidic solutions. The [MoO4]-2 is soluble in concentrated HCl [MoOCl5]-2, dilute HF / HNO3 [MoOF5]-2 and basic media [MoO4]-2. Stable at ppm levels with some metals provided it is fluorinated. Do not mix with Alkaline or Rare Earths when HF is present. Stable with most inorganic anions provided it is in the [MoO4]-2 chemical form.

Stability - 2-100 ppb levels stable (alone or mixed with all other metals that are at comparable levels) as the [MoOF5]-2 for months in 1% HNO3 / LDPE container. 1-10,000 ppm single element solutions as the [MoO4]-2 chemically stable for years in 1% NH4OH in a LDPE container.

Mo Containing Samples (Preparation and Solution) -Metal (Soluble in HF / HNO3 or hot dilute HCl); Oxide (soluble in HF or NH4OH) ; Organic Matrices (Dry ash at 450EC in Pt0 and dissolve oxide with HF or HCl).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 95 amu	3 ppt	n/a	40Ar39K16O,79Br16O,190Os2+,190Pt2+
ICP-OES 202.030 nm	0.008 / 0.0002 µg/mL	1	Os, Hf
ICP-OES 203.844 nm	0.012 / 0.002 µg/mL	1	
ICP-OES 204.598 nm	0.012 / 0.001 µg/mL	1	Ir, Ta

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

July 04, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **July 04, 2025**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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Certificate of Analysis

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F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGTL10
Lot Number:	T2-TL714687
Matrix:	5% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Thallium
Starting Material:	TlNO3
Starting Material Lot#:	2118
Starting Material Purity:	99.9998%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10030 ± 42 µg/mL

Density: 1.036 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10040 ± 43 µg/mL**
ICP Assay NIST SRM 3158 Lot Number: 151215

Assay Method #2 **10010 ± 65 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL(

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000200	M	Eu	<	0.000200	O	Na		0.002489	M	Se	<	0.011019	O	Zn		0.002298
O	Al	<	0.004184	O	Fe	<	0.002824	M	Nb	<	0.000200	O	Si		0.003760	M	Zr	<	0.000200
M	As	<	0.002003	M	Ga	<	0.000200	M	Nd	<	0.000200	M	Sm	<	0.000200				
O	Au	<	0.002824	M	Gd	<	0.000200	M	Ni		0.001724	M	Sn	<	0.000601				
O	B	<	0.004184	M	Ge	<	0.000801	M	Os	<	0.000198	O	Sr	<	0.000313				
M	Ba	<	0.000400	M	Hf	<	0.000200	O	P	<	0.010460	M	Ta	<	0.000200				
O	Be	<	0.000104	M	Hg	<	0.000794	M	Pb		0.000811	M	Tb	<	0.000200				
M	Bi	<	0.005209	M	Ho	<	0.000200	M	Pd	<	0.000400	M	Te	<	0.005008				
O	Ca		0.002436	M	In	<	0.000200	M	Pr	<	0.000200	M	Th	<	0.000200				
M	Cd		0.001318	M	Ir	<	0.000198	M	Pt	<	0.000801	O	Ti	<	0.001255				
M	Ce	<	0.000200	O	K		0.006175	M	Rb	<	0.000200	s	Tl	<					
M	Co	<	0.000601	M	La	<	0.000200	M	Re	<	0.000200	M	Tm	<	0.000200				
M	Cr	<	0.000801	O	Li	<	0.000177	M	Rh	<	0.000200	M	U	<	0.000200				
M	Cs	<	0.003606	M	Lu	<	0.000200	M	Ru	<	0.000397	M	V	<	0.002203				
M	Cu	<	0.001001	O	Mg		0.000529	O	S	<	0.015690	M	W	<	0.000601				
M	Dy	<	0.000200	M	Mn	<	0.000801	M	Sb	<	0.000400	M	Y	<	0.000200				
M	Er	<	0.000200	M	Mo	<	0.001202	O	Sc	<	0.000711	M	Yb	<	0.000200				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 204.38 +1 6 Tl(H2O)61+
Chemical Compatibility - Soluble in HCl, HNO3, and H2SO4. Stable with most metals and inorganic anions. The sulfite, thiocyanate and oxalate are moderately soluble; the phosphate and arsenite are slightly soluble and the sulfide is insoluble.
Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO3 / LDPE container.
Tl Containing Samples)Preparation and Solution) -Metal (Best dissolved in HNO3 which forms chiefly the Tl1+ ion.); Oxide (The thallous oxide is readily soluble in water. The thallic oxide requires high levels of acid); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Sulfuric/peroxide digestion or dry ash and dissolution in HCl).
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 205 amu	2 ppt	N/A	189Os16O
ICP-OES 190.864 nm	0.04 / 0.004 µg/mL	1	V, Ti
ICP-OES 276.787 nm	0.1 / 0.01 µg/mL	1	Ta, V, Fe, Cr
ICP-OES 351.924 nm	0.2 / 0.02 µg/mL	1	Th, Ce, Zr

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

February 08, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **February 08, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

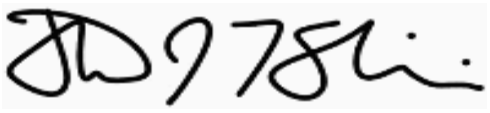
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGCD10
Lot Number:	S2-CD710508
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Cadmium
Starting Material:	Cd Metal
Starting Material Lot#:	1953
Starting Material Purity:	99.9995%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10008 ± 30 µg/mL

Density: 1.029 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10010 ± 32 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #2 **10011 ± 30 µg/mL**
ICP Assay NIST SRM 3108 Lot Number: 130116

Assay Method #3 **10003 ± 30 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O	Ag	<	0.003200	O	Eu	<	0.002500	O	Na		0.005499	M	Se	<	0.005700	O	Zn	<	0.001100
O	Al		0.008903	O	Fe		0.000602	M	Nb	<	0.000400	O	Si		0.016758	O	Zr	<	0.002600
M	As	<	0.003600	M	Ga	<	0.001200	M	Nd	<	0.000800	M	Sm	<	0.000400				
M	Au	<	0.000810	M	Gd	<	0.000400	M	Ni	<	0.003600	M	Sn	<	0.003200				
O	B		0.004189	O	Ge	<	0.012000	M	Os	<	0.000810	O	Sr	<	0.000330				
M	Ba	<	0.002400	M	Hf	<	0.000400	O	P	<	0.022000	M	Ta	<	0.000800				
M	Be	<	0.000400	M	Hg	<	0.001700	M	Pb	<	0.002400	M	Tb	<	0.000400				
M	Bi	<	0.000400	M	Ho	<	0.000400	M	Pd	<	0.001200	M	Te	<	0.008000				
O	Ca		0.011259	O	In	<	0.013000	M	Pr	<	0.000400	M	Th	<	0.000400				
s	Cd	<		M	Ir	<	0.000410	M	Pt	<	0.000400	O	Ti		0.000602				
M	Ce	<	0.000400	O	K		0.005237	M	Rb	<	0.004400	M	Tl		0.000523				
M	Co	<	0.000400	M	La	<	0.000400	M	Re	<	0.000400	M	Tm	<	0.000400				
O	Cr	<	0.005100	O	Li	<	0.000054	M	Rh	<	0.000400	M	U	<	0.000400				
M	Cs	<	0.002400	M	Lu	<	0.000400	M	Ru	<	0.002500	M	V	<	0.002000				
O	Cu	<	0.004800	O	Mg		0.000288	O	S	<	0.022000	M	W	<	0.000400				
M	Dy	<	0.000400	O	Mn	<	0.000860	O	Sb	<	0.018000	M	Y	<	0.000400				
M	Er	<	0.000400	M	Mo	<	0.001600	O	Sc	<	0.000430	M	Yb	<	0.000400				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 112.41 +2 4 Cd2(OH) (aq)3+ and Cd(OH)(aq)

Chemical Compatibility -Stable in HCl, HNO3, H2SO4 , and HF. Avoid basic media forming insoluble carbonate and hydroxide.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5 % HNO3 / LDPE container.

Cd Containing Samples (Preparation and Solution) -Metal (soluble in HNO3); Oxides (soluble in HCl or HNO3); Ores (dissolve in HCl /HNO3 then take to fumes with H2SO4. The silica and lead sulfate are filtered off after the addition of water); Organic based (dry ash at 450°C and dissolve ash in HCl), (sulfuric / peroxide acid digestion).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 111 amu	11 ppt	n/a	95Mo16O
ICP-OES 214.438 nm	0.003 / 0.0003 µg/mL	1	Pt, Ir
ICP-OES 226.502 nm	0.003 / 0.0003 µg/mL	1	Ir
ICP-OES 228.802 nm	0.003 / 0.0003 µg/mL	1	Co, Ir, As, Pt

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

November 01, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **November 01, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGMN10
Lot Number:	S2-MN704240
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Manganese
Starting Material:	Mn Metal
Starting Material Lot#:	2275
Starting Material Purity:	99.9909%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10011 ± 30 µg/mL

Density: 1.035 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **9989 ± 69 µg/mL**
ICP Assay NIST SRM 3132 Lot Number: 050429

Assay Method #2 **10011 ± 25 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **10024 ± 47 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.001500	M	Eu	<	0.000730	O	Na		0.176097	M	Se	<	0.006600	M	Zn		0.009925
O	Al		0.004322	M	Fe	<	0.650000	M	Nb	<	0.000730	O	Si		0.097654	M	Zr	<	0.000730
M	As	<	0.008000	M	Ga		0.004322	M	Nd	<	0.001500	M	Sm	<	0.000730				
M	Au	<	0.000730	M	Gd	<	0.000730	M	Ni		0.024013	M	Sn	<	0.002200				
M	B		0.068838	M	Ge	<	0.004400	M	Os	<	0.000730	O	Sr		0.000928				
M	Ba	<	0.001500	M	Hf	<	0.000730	i	P	<		M	Ta	<	0.000730				
M	Be	<	0.000730	M	Hg	<	0.002200	M	Pb		0.007364	M	Tb	<	0.000730				
M	Bi	<	0.003000	M	Ho	<	0.000730	M	Pd	<	0.000730	M	Te	<	0.019000				
O	Ca		0.062434	M	In	<	0.003000	M	Pr	<	0.000730	M	Th	<	0.000730				
M	Cd	<	0.001500	M	Ir	<	0.000730	M	Pt	<	0.000730	O	Ti	<	0.006500				
M	Ce	<	0.007300	O	K		0.006403	M	Rb	<	0.006600	M	Tl	<	0.000730				
O	Co		0.014728	M	La	<	0.003000	M	Re	<	0.000730	M	Tm	<	0.000730				
O	Cr		0.272151	O	Li		0.000416	M	Rh	<	0.003000	M	U	<	0.001500				
M	Cs	<	0.000730	M	Lu	<	0.000730	M	Ru	<	0.004400	M	V	<	0.000730				
O	Cu		0.007684	O	Mg		0.320177	i	S	<		M	W	<	0.004400				
M	Dy	<	0.001500	s	Mn	<		M	Sb	<	0.021000	O	Y		0.001360				
M	Er	<	0.001500	M	Mo		0.010245	O	Sc	<	0.004100	M	Yb	<	0.000730				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 54.94 +2 6 $Mn(H_2O)_6^{2+}$

Chemical Compatibility -Stable in HCl, HNO_3, H_2SO_4 ,HF, H_3PO_4. Avoid basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5 % HNO_3/LDPE container.

Mn Containing Samples (Preparation and Solution) -Metal (Soluble in dilute acids); Oxides (Soluble in dilute acids); Ores (Dissolve with HCl. If silica is present add HF and then fume off silica by adding H_2SO_4 and heat to SO_3 fumes - dense white fumes).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 55 amu	10 ppt	n/a	40Ar14N1H,39K16O,37Cl18O,40Ar15N,38Ar17O,36Ar18O1H ,38Ar16O1H,37Cl17O1H,23Na32S
ICP-OES 257.610 nm	0.0014 / 0.00002 µg/mL	1	Ce, W, Re
ICP-OES 259.373 nm	0.0016 / 0.00002 µg/mL	1	U, Ta, Mo, Fe, Nb
ICP-OES 260.569 nm	0.0021 / 0.00002 µg/mL	1	Co

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

April 17, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **April 17, 2025**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGSB10
Lot Number:	R2-SB688559
Matrix:	3% (v/v) HNO3 3% (w/v) tartaric acid
Value / Analyte(s):	10 000 µg/mL ea: Antimony
Starting Material:	Antimony Metal
Starting Material Lot#:	1857
Starting Material Purity:	99.9894%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10003 ± 47 µg/mL

Density: 1.061 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10003 ± 41 µg/mL**
ICP Assay NIST SRM 3102a Lot Number: 140911

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

$CRM/RM\ Expanded\ Uncertainty\ (\pm) = U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

$CRM/RM\ Expanded\ Uncertainty\ (\pm) = U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000200	M	Eu	<	0.000300	O	Na		0.140000	M	Se	<	0.007300	O	Zn		0.005000
M	Al		0.003200	O	Fe		0.060000	M	Nb	<	0.000100	O	Si		0.150000	O	Zr	<	0.006300
M	As	<	0.004400	M	Ga	<	0.000400	M	Nd	<	0.000100	M	Sm	<	0.000100				
M	Au	<	0.000210	M	Gd	<	0.000100	O	Ni		0.004800	M	Sn	<	0.001800				
M	B	<	0.011000	M	Ge	<	0.000600	M	Os	<	0.000110	O	Sr		0.000750				
O	Ba	<	0.004900	M	Hf	<	0.000100	O	P		0.540000	M	Ta		0.003300				
M	Be	<	0.000400	M	Hg	<	0.000110	M	Pb	<	0.000400	M	Tb	<	0.000100				
M	Bi	<	0.000200	M	Ho	<	0.000100	M	Pd	<	0.000210	M	Te	<	0.000600				
O	Ca		0.110000	M	In	<	0.000100	M	Pr	<	0.001600	M	Th	<	0.000100				
M	Cd	<	0.000200	M	Ir	<	0.000110	M	Pt	<	0.000600	M	Ti	<	0.002800				
M	Ce		0.006500	O	K		0.020000	M	Rb	<	0.001000	M	Tl	<	0.000100				
M	Co	<	0.000200	O	La	<	0.016000	M	Re	<	0.000100	M	Tm	<	0.000100				
M	Cr		0.006900	O	Li	<	0.000430	M	Rh	<	0.000300	M	U	<	0.000100				
M	Cs	<	0.000200	M	Lu	<	0.000100	M	Ru	<	0.000310	M	V	<	0.000800				
M	Cu	<	0.000600	O	Mg		0.021000	n	S	<		M	W	<	0.000200				
M	Dy	<	0.000100	O	Mn		0.001900	s	Sb	<		M	Y	<	0.000100				
M	Er	<	0.000100	M	Mo	<	0.000500	O	Sc	<	0.002300	M	Yb	<	0.000100				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 121.75 +3 6 Sb(O)C4H4O6-1

Chemical Compatibility -Stable in conc. HCl, dilute or conc. HF. Stable in dilute HNO3 as the fluoride or tartrate complex. Avoid basic media. Stable with most metals and inorganic anions in acidic media as the tartrate provided the acidity is not too high or the acid is oxidizing causing loss of the stabilizing tartrate ion. The fluoride complex of antimony is stable in strong acid but you should only mix with other metals that are fluorinated.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-2% HNO3 / LDPE container.

Sb Containing Samples (Preparation and Solution) -Metal and alloys (Soluble in H2O / HF / HNO3 mixture); Oxides (Soluble in HCl and tartaric acid or H2O / HF / HNO3 mixtures); Ores (fusion with Na2CO3 in Pt0 followed by dissolving the fuseate in a H2O / HF / HNO3 mixture); Organic based (sulfuric acid / hydrogen peroxide digestion)

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 121 amu	5 ppt	N/A	105Pd16O, 89Y16O2
ICP-OES 206.833 nm	0.03/0.003 µg/mL	1	Ta, Cr, Ge, Hf
ICP-OES 217.581 nm	0.05/0.005 µg/mL	1	Nb, W, Re, Fe
ICP-OES 231.147 nm	0.06/0.006 µg/mL	1	Ni, Co, Pt

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

April 30, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **April 30, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGAS10
Lot Number:	T2-AS718260
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Arsenic
Starting Material:	As Metal
Starting Material Lot#:	2208
Starting Material Purity:	99.9971%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10060 ± 40 µg/mL

Density: 1.037 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10062 ± 46 µg/mL**
ICP Assay NIST SRM 3103a Lot Number: 100818

Assay Method #2 **10055 ± 76 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	< 0.003200	M	Eu	< 0.000530	O	Na	0.032544	M	Se	< 0.006300	O	Zn	0.001952			
M	Al	0.007593	O	Fe	0.001475	O	Nb	< 0.012000	O	Si	0.238658	O	Zr	< 0.004100			
s	As	<	M	Ga	< 0.000530	M	Nd	< 0.000530	M	Sm	< 0.000530						
M	Au	< 0.003100	M	Gd	< 0.000530	M	Ni	< 0.002100	M	Sn	< 0.000530						
M	B	0.026035	M	Ge	< 0.001600	M	Os	< 0.000520	M	Sr	< 0.000530						
M	Ba	< 0.000530	M	Hf	< 0.000530	O	P	< 0.043000	M	Ta	< 0.000530						
O	Be	< 0.000360	M	Hg	< 0.001600	M	Pb	< 0.002100	M	Tb	< 0.000530						
M	Bi	< 0.000530	M	Ho	< 0.000530	M	Pd	< 0.001100	M	Te	< 0.004700						
O	Ca	0.004339	M	In	< 0.023000	M	Pr	< 0.005300	M	Th	< 0.000530						
M	Cd	< 0.001100	M	Ir	< 0.000520	M	Pt	< 0.000530	O	Ti	< 0.002300						
M	Ce	< 0.000530	O	K	0.002061	M	Rb	< 0.000530	M	Tl	< 0.000530						
M	Co	< 0.000530	M	La	< 0.001100	M	Re	< 0.000530	M	Tm	< 0.000530						
O	Cr	< 0.001800	O	Li	< 0.000120	M	Rh	< 0.000530	M	U	< 0.000530						
M	Cs	< 0.005300	M	Lu	< 0.000530	M	Ru	< 0.000520	M	V	< 0.002700						
M	Cu	< 0.001600	O	Mg	0.000154	O	S	0.028205	M	W	< 0.012000						
M	Dy	< 0.000530	O	Mn	0.000154	M	Sb	< 0.000530	M	Y	< 0.000530						
M	Er	< 0.000530	M	Mo	< 0.000530	O	Sc	< 0.001700	M	Yb	< 0.000530						

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 74.92 ; mix of +3 and +5 ; 6 ; H3AsO4 and HAsO2

Chemical Compatibility - Arsenic has no cationic chemistry. It is soluble in HCl, HNO3,H3PO4, H2SO4 and HF aqueous matrices water and NH4OH . It is stable with most inorganic anions (forms arsenate when boiled with chromate) but many cationic metals form the insoluble arsenates under pH neutral conditions. When fluorinated and / or under acidic conditions arsenate formation is typically not a problem at moderate to low concentrations.

Stability - 2-100 ppb levels stable for months alone or mixed with other elements at equivalent levels in 1% HNO3 / LDPE container.

As Containing Samples (Preparation and Solution) - Metal (soluble in 1:1 H2O / HNO3); Oxides (the oxide exists in crystalline and amorphous forms where the amorphic form is more water soluble. The oxides typically dissolve in dilute acidic solutions when boiled); Minerals (one gram of powered sample is fused in a Ni crucible with 10 grams of a 1:1 mix of K2CO3 and KNO3 and the melt extracted with hot water); Organic Matrices (0.2 to 0.5 grams of sample are fused with 15 grams of a 1:1 Na2CO3 / Na2O2 mix in a Ni crucible. The fuseate is extracted with water and acidified with HNO3).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 75 amu	20 ppt	N/A	40Ar35Cl, 59Co16O, 36Ar38Ar1H,8Ar37Cl,Ar39K, 150Nd2+,150Sm2+
ICP-OES 189.042 nm	0.05/0.005 µg/mL	1	Cr
ICP-OES 193.696 nm	0.1/0.01 µg/mL	1	V, Ge
ICP-OES 228.812 nm	0.1/0.01 µg/mL	1	Cd, Pt, Ir, Co

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

May 10, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **May 10, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Supervisor, Product Documentation

Certificate Approved By:

Michael Booth
Director, Technical

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES
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CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGBA10
Lot Number:	R2-BA692576
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Barium
Starting Material:	Barium Nitrate
Starting Material Lot#:	1969
Starting Material Purity:	99.9982%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10022 ± 30 µg/mL

Density: 1.025 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1	**10018 ± 50 µg/mL** ICP Assay NIST SRM 3104a Lot Number: 140909
Assay Method #2	**10023 ± 31 µg/mL** Gravimetric NIST SRM Lot Number: See Sec. 4.2
Assay Method #3	**10023 ± 30 µg/mL** Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000410	O	Eu	<	0.005200	O	Na		0.004610	M	Se	<	0.003700	O	Zn		0.000658
M	Al	<	0.003100	O	Fe		0.015707	M	Nb	<	0.000210	O	Si		0.005573	M	Zr	<	0.001300
M	As	<	0.001300	M	Ga	<	0.000210	M	Nd	<	0.000210	O	Sm	<	0.021000				
M	Au	<	0.001300	M	Gd	<	0.000210	M	Ni	<	0.000810	M	Sn	<	0.000410				
O	B	<	0.005200	M	Ge	<	0.002500	M	Os	<	0.000410	O	Sr		0.003850				
s	Ba	<		M	Hf	<	0.000810	O	P	<	0.026000	M	Ta	<	0.000410				
O	Be	<	0.000320	M	Hg	<	0.000210	M	Pb	<	0.002300	M	Tb	<	0.000210				
M	Bi	<	0.000210	M	Ho	<	0.000210	M	Pd	<	0.000210	M	Te	<	0.001900				
O	Ca		0.007093	M	In	<	0.000210	M	Pr	<	0.000210	M	Th	<	0.000210				
M	Cd	<	0.000210	M	Ir	<	0.000210	M	Pt	<	0.000210	M	Ti	<	0.002100				
M	Ce	<	0.001300	O	K		0.035467	M	Rb	<	0.002100	M	Tl	<	0.000210				
M	Co	<	0.000410	O	La	<	0.005200	M	Re	<	0.000210	M	Tm	<	0.000410				
M	Cr	<	0.001700	O	Li	<	0.000630	M	Rh	<	0.000210	M	U	<	0.000210				
M	Cs	<	0.003300	M	Lu	<	0.001700	M	Ru	<	0.000210	O	V	<	0.005200				
M	Cu	<	0.001300	O	Mg		0.000861	O	S		0.268539	M	W	<	0.000410				
M	Dy	<	0.000210	M	Mn	<	0.000410	M	Sb	<	0.001300	O	Y	<	0.005200				
M	Er	<	0.001300	M	Mo	<	0.000410	M	Sc	<	0.000410	M	Yb	<	0.001300				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 137.33 +2 6 $Ba(H_2O)_6^{+2}$
Chemical Compatibility - Soluble in HCl, and HNO_3. Avoid H_2SO_4, HF and neutral to basic media. Stable with most metals and inorganic anions forming insoluble silicate, carbonate, hydroxide, oxide, fluoride, sulfate, oxalate, chromate, arsenate, iodate, molybdate, sulfite and tungstate in neutral aqueous media.
Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1 -10,000 ppm solutions chemically stable for years in 1-3.5% HNO_3 / LDPE container.
Ba Containing Samples (Preparation and Solution) -Metal(is best dissolved in diluted HNO_3); Ores(Carbonate fusion in Pt0 followed by HCl dissolution. If sulfate is present dissolve the fuseate using HCl / tartaric acid to prevent $BaSO_4$ precipitate); Organic Matrices (dry ash and dissolve in dilute HCl.)
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 138 amu	1 ppt	N/A	122Sn16O, 122Te16O
ICP-OES 230.424 nm	0.004/0.0005 µg/mL	1	Mo, Ir, Co
ICP-OES 233.527 nm	0.004/0.0003 µg/mL	1	
ICP-OES 455.403 nm	0.002/0.0001 µg/mL	1	Zr, U

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

May 11, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **May 11, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
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CERTIFICATE OF ANALYSIS

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGBE10
Lot Number:	R2-BE692992
Matrix:	6% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Beryllium
Starting Material:	Beryllium Acetate
Starting Material Lot#:	2281
Starting Material Purity:	99.9998%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10032 ± 41 µg/mL

Density: 1.128 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10042 ± 67 µg/mL**
ICP Assay NIST SRM 3105a Lot Number: 090514

Assay Method #2 **10025 ± 51 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.001100	M	Eu	<	0.000270	O	Na		0.040962	M	Se	<	0.005000	M	Zn		0.013054
O	Al		0.016205	O	Fe		0.015754	M	Nb	<	0.000270	O	Si		0.024307	O	Zr	<	0.001900
M	As	<	0.002900	M	Ga	<	0.000270	M	Nd	<	0.000270	M	Sm	<	0.000270				
M	Au	<	0.000520	M	Gd	<	0.000270	M	Ni	<	0.003700	M	Sn	<	0.000790				
M	B	<	0.091000	M	Ge	<	0.000270	M	Os	<	0.000260	M	Sr		0.000630				
M	Ba		0.002700	M	Hf	<	0.000270	O	P	<	0.066000	M	Ta	<	0.000270				
s	Be	<		M	Hg	<	0.000520	M	Pb	<	0.000270	M	Tb	<	0.000270				
M	Bi	<	0.000530	M	Ho	<	0.000270	M	Pd	<	0.000520	M	Te	<	0.003700				
O	Ca		0.072022	M	In	<	0.000790	M	Pr	<	0.000270	M	Th	<	0.000270				
M	Cd	<	0.000790	M	Ir	<	0.000260	M	Pt	<	0.000270	O	Ti	<	0.000400				
M	Ce	<	0.000270	O	K		0.045014	M	Rb	<	0.000270	M	Tl	<	0.000790				
O	Co	<	0.003200	M	La	<	0.000270	M	Re	<	0.000270	M	Tm	<	0.000270				
O	Cr	<	0.001800	O	Li	<	0.000660	M	Rh	<	0.001100	M	U	<	0.000270				
M	Cs		0.001440	M	Lu	<	0.000270	M	Ru	<	0.000260	M	V	<	0.000790				
M	Cu	<	0.002100	O	Mg		0.016205	i	S	<		M	W	<	0.000530				
M	Dy	<	0.000270	M	Mn		0.001215	M	Sb	<	0.000270	M	Y	<	0.000270				
M	Er	<	0.000270	M	Mo	<	0.000530	O	Sc	<	0.000930	M	Yb	<	0.000270				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 9.01 +2 4 $Be(H_2O)_4^{+2}$

Chemical Compatibility -Soluble in HCl, HNO_3, H_2SO_4 and HF aqueous matrices. Stable with all metals and inorganic anions.

Stability - 2-100 ppb levels stable for months in 1 % HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 5-10 % HNO_3 / LDPE container.

Be Containing Samples (Preparation and Solution) - Meta l(is best dissolved in diluted H_2SO_4); BeO (boiling nitric, hydrochloric, or sulfuric acids or KHSO4 fusion); Ores (H_2SO_4/HF digestion or carbonate fusion in Pt0); Organic Matrices (sulfuric/peroxide digestion or nitric/sulfuric/perchloric acid decomposition, or dry ash and dissolution according to the BeO procedure above).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 9 amu	4 ppt	N/A	
ICP-OES 234.861 nm	0.0003/0.00016 µg/mL	1	Fe, Ta, Mo
ICP-OES 313.042 nm	0.0003/0.00009 µg/mL	1	V, Ce, U
ICP-OES 313.107 nm	0.0007/0.0005 µg/mL	1	Ce, Th, Tm

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION, PERIOD OF VALIDITY AND REVISION HISTORY

11.1 Certification Issue Date

May 13, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **May 13, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

11.4 Revision Status

- Revision 1 - Revised on Thursday, Jan 14, 2021 by utruong. Revision was made for the following reason: Modified Section 7 Chemical Form in Solution.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
fax: 540.585.3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGCO10
Lot Number:	R2-CO695285
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Cobalt
Starting Material:	Co Metal
Starting Material Lot#:	2326
Starting Material Purity:	99.9934%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10012 ± 31 µg/mL

Density: 1.056 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10031 ± 67 µg/mL**
ICP Assay NIST SRM 3113 Lot Number: 190630

Assay Method #2 **10019 ± 32 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **10000 ± 35 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	0.014660	M	Eu	<	0.000590	O	Na	0.007534	M	Se	<	0.019000	M	Zn	0.003461	
M	Al	< 0.024000	M	Fe	0.050905	M	Nb	<	0.000590	O	Si	0.075340	M	Zr	<	0.001200	
i	As	<	M	Ga	<	0.000590	M	Nd	<	0.000590	M	Sm	<	0.000590			
M	Au	< 0.004100	M	Gd	<	0.000590	O	Ni	0.427608	M	Sn	<	0.001200				
M	B	< 0.031000	M	Ge	<	0.003000	M	Os	<	0.000590	O	Sr	<	0.000260			
M	Ba	< 0.000590	M	Hf	<	0.000590	n	P	<		M	Ta	<	0.001200			
O	Be	< 0.001300	M	Hg	<	0.001800	M	Pb	0.003257	M	Tb	<	0.000590				
M	Bi	< 0.003000	M	Ho	<	0.000590	M	Pd	<	0.000590	M	Te	<	0.005300			
O	Ca	0.010588	M	In	<	0.001200	M	Pr	<	0.000590	M	Th	<	0.000590			
M	Cd	< 0.004700	M	Ir	<	0.001200	M	Pt	<	0.002400	M	Ti	<	0.014000			
M	Ce	< 0.000590	O	K	0.008144	M	Rb	<	0.000590	M	Tl	0.002647					
s	Co	<	M	La	<	0.000590	M	Re	<	0.000590	M	Tm	<	0.000590			
M	Cr	< 0.021000	O	Li	<	0.000130	M	Rh	<	0.000590	M	U	<	0.000590			
M	Cs	< 0.002400	M	Lu	<	0.000590	M	Ru	<	0.007100	O	V	<	0.000880			
M	Cu	0.189369	O	Mg	0.001893	n	S	<		M	W	<	0.000590				
M	Dy	< 0.000590	M	Mn	<	0.001800	M	Sb	<	0.003600	M	Y	<	0.000590			
M	Er	< 0.000590	M	Mo	<	0.002400	O	Sc	<	0.001600	M	Yb	<	0.000590			

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 58.93 +2 6 $Co(H_2O)_6^{2+}$

Chemical Compatibility -Stable in HCl, HNO_3, H_2SO_4 ,HF, H_3PO_4. Avoid basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO_3 / LDPE container.

Co Containing Samples (Preparation and Solution) - Metal (soluble in HNO_3); Oxides (Soluble in HCl); Ores (dissolve in HCl / HNO_3).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 59 amu	2 ppt	n/a	42Ca16O1H , 40Ar18O1H , 36Ar23Na, 43Ca16O, 24Mg35Cl
ICP-OES 228.616 nm	0.01/0.001 µg/mL	1	
ICP-OES 237.862 nm	0.01/0.002 µg/mL	1	W, Re, Al, Ta
ICP-OES 238.892 nm	0.01/0.002 µg/mL	1	Fe, W, Ta

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

August 04, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **August 04, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES™
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Certificate of Analysis

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGAG10
Lot Number:	S2-AG712977
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Silver
Starting Material:	Ag Shot
Starting Material Lot#:	2289
Starting Material Purity:	99.9951%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10051 ± 30 µg/mL

Density: 1.056 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10051 ± 52 µg/mL**
ICP Assay NIST SRM 3151 Lot Number: 160729

Assay Method #2 **10051 ± 19 µg/mL**
Volhard NIST SRM 999c Lot Number: 999c

Assay Method #3 **10049 ± 31 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

s	Ag	<		M	Eu	<	0.000260	O	Na		0.003811	M	Se	<	0.003900	O	Zn		0.048146
M	Al		0.002688	O	Fe		0.006419	M	Nb	<	0.000260	O	Si		0.005215	M	Zr	<	0.000260
M	As	<	0.001100	M	Ga	<	0.000260	M	Nd	<	0.000260	M	Sm	<	0.000260				
M	Au	<	0.000260	M	Gd	<	0.000260	O	Ni		0.001765	M	Sn		0.020060				
O	B	<	0.004300	M	Ge	<	0.002300	M	Os	<	0.001100	O	Sr	<	0.000110				
M	Ba	<	0.000520	M	Hf	<	0.000260	O	P	<	0.017000	M	Ta	<	0.000260				
O	Be	<	0.001100	M	Hg	<	0.000770	M	Pb	<	0.003600	M	Tb	<	0.000260				
M	Bi		0.004814	M	Ho	<	0.000260	M	Pd		0.044134	M	Te	<	0.009000				
O	Ca		0.005215	M	In		0.003691	M	Pr	<	0.000260	M	Th	<	0.000260				
M	Cd	<	0.000260	M	Ir	<	0.000520	M	Pt	<	0.001100	O	Ti	<	0.000440				
M	Ce	<	0.002100	O	K	<	0.008700	M	Rb	<	0.001100	M	Tl	<	0.004100				
O	Co	<	0.000330	M	La	<	0.000260	M	Re	<	0.000260	M	Tm	<	0.000260				
O	Cr	<	0.002500	O	Li	<	0.000110	M	Rh	<	0.000520	M	U	<	0.000260				
M	Cs	<	0.002600	M	Lu	<	0.000260	M	Ru	<	0.000260	M	V	<	0.000260				
O	Cu		0.357085	O	Mg		0.001203	O	S	<	0.017000	M	W	<	0.000260				
M	Dy	<	0.000260	O	Mn	<	0.000220	M	Sb	<	0.014000	M	Y	<	0.000260				
M	Er	<	0.000260	M	Mo	<	0.000260	O	Sc	<	0.000220	M	Yb	<	0.000260				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 107.87 +1 6 $Ag(H_2O)_6^+$

Chemical Compatibility -Stable in HNO_3, and HF. Avoid basic media. Ag forms more insoluble salts than any other metal. It also is subject to photochemical reduction to the metal in HCl media although 10 µg/mL solutions in 10% HCl [$AgCl_{x1-x}$] are commonly used in the analytical laboratory. The most common solubility problems exist with arsenate, arsenite , bromide, chloride, iodide, carbonate , chromate, cyanide, iodate, oxalate, oxide, sulfate, sulfide, tartrate, and thiocyanate in aqueous media. The addition of nitric acid renders many of these salts soluble.

Stability - 2-100 ppb levels stable for 75+ days when mixed with equivalent levels of all other elements including the precious metals (where chloride is present) when in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO_3 / LDPE container.

Ag Containing Samples (Preparation and Solution) -Metal (Soluble in HNO_3); Oxides (Soluble in HNO_3); Ores (Digestion with conc. HNO_3).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 107 amu	1 ppt	N/A	91Zr16O
ICP-OES 243.779 nm	0.12/0.01 µg/mL	1	Mn, Th, Ni, Rh
ICP-OES 328.068 nm	0.007/0.0007 µg/mL	1	Ce, Rh, V
ICP-OES 338.289 nm	0.013/0.001 µg/mL	1	Ce, Cr, Th

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

December 28, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **December 28, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Supervisor, Product Documentation

Certificate Approved By:

Michael Booth
Director, Technical

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES
Refine your results. Redefine your industry.

Certificate of Analysis

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inorganicventures.com

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F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGCR(3)10
Lot Number:	S2-CR709784
Matrix:	10% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Chromium
Starting Material:	Cr Metal
Starting Material Lot#:	2328
Starting Material Purity:	99.9951%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10027 ± 41 µg/mL

Density: 1.072 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10027 ± 40 µg/mL**
ICP Assay NIST SRM 3112a Lot Number: 170630

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.001700	M	Eu	<	0.003400	O	Na		0.090372	M	Se	<	0.012000	O	Zn	<	0.006100
M	Al		0.034916	O	Fe		0.246471	M	Nb	<	0.017000	n	Si	<		M	Zr	<	0.007800
M	As	<	0.028000	O	Ga	<	0.013000	M	Nd	<	0.013000	M	Sm	<	0.006900				
M	Au	<	0.001700	M	Gd	<	0.000560	M	Ni		0.016020	M	Sn		0.006983				
O	B	<	0.025000	O	Ge	<	0.014000	M	Os	<	0.000560	M	Sr		0.006367				
M	Ba	<	0.008900	M	Hf	<	0.000560	i	P	<		M	Ta	<	0.000560				
M	Be	<	0.013000	M	Hg	<	0.001700	M	Pb		0.010064	M	Tb	<	0.000560				
M	Bi	<	0.002300	M	Ho	<	0.000560	M	Pd	<	0.021000	M	Te	<	0.010000				
O	Ca		0.075995	M	In	<	0.000560	M	Pr	<	0.001700	M	Th	<	0.000560				
M	Cd	<	0.000560	M	Ir	<	0.000560	M	Pt	<	0.001200	O	Ti		0.013555				
M	Ce	<	0.001200	O	K		0.043132	i	Rb	<		M	Tl	<	0.000560				
M	Co	<	0.002600	M	La	<	0.001200	M	Re	<	0.001200	O	Tm	<	0.013000				
s	Cr	<		O	Li		0.000390	M	Rh	<	0.095000	M	U	<	0.000560				
M	Cs	<	0.007800	M	Lu	<	0.000560	M	Ru	<	0.087000	O	V		0.014993				
O	Cu		0.007599	O	Mg		0.000883	i	S	<		M	W	<	0.049000				
M	Dy	<	0.000560	M	Mn		0.008626	M	Sb	<	0.003400	M	Y	<	0.001700				
M	Er	<	0.019000	M	Mo	<	0.032000	M	Sc		0.003080	M	Yb	<	0.000560				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 52.00 +3 6 $Cr(H_2O)_6^{3+}$

Chemical Compatibility -Stable in HCl, HNO_3, H_2SO_4, HF, H_3PO_4. Avoid basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO_3 / LDPE container.

Cr3 Containing Samples (Preparation and Solution) -Metal (soluble in HCl); Oxides/Ores (Chrome ore/oxides are very difficult to dissolve. The following procedures [A-D] are commonly used: A. Fusion with $KHSO_4$ and extraction with hot KCl. The residue fused with Na_2CO_3 and $KClO_3$, 3:1. B. Fusion with $NaKSO_4$ and NaF 2:1, C. Fusion with magnesia or lime and sodium or potassium carbonates, 4:1. D. Fusion with Na_2O_2 or NaOH and KNO_3 or NaOH and Na_2O_2. Nickel, iron, copper, or silver crucibles should be used for D. Platinum may be used for A, <, C); Organic Matrices (ash at 4500C followed by one of the fusion methods above or sulfuric/hydrogen peroxide acid digestions may be applicable to non oxide containing samples).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 52 amu	40 ppt	N/A	36S16O, 36Ar16O - The 50Cr, 53Cr, 54Cr lines suffer from many more potential interferences from sulfur, chlorine and argon compounds of oxygen, nitrogen and carbon.
ICP-OES 205.552 nm	0.006/0.0008 µg/mL	1	Os
ICP-OES 276.654 nm	0.01/0.001 µg/mL	1	Cu, Ta, V
ICP-OES 284.325 nm	0.008/0.0007 µg/mL	1	

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

October 26, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **October 26, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES
300 Technology Drive
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CERTIFICATE OF ANALYSIS

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGNI10
Lot Number:	P2-NI686384
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Nickel
Starting Material:	Ni Metal
Starting Material Lot#:	2277 and 2282
Starting Material Purity:	99.9992%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 9979 ± 30 µg/mL

Density: 1.038 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **9971 ± 54 µg/mL**
ICP Assay NIST SRM 3136 Lot Number: 120619

Assay Method #2 **9970 ± 32 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **9993 ± 33 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag		0.002606	M	Eu	<	0.001100	O	Na		0.004965	O	Se	<	0.067000	M	Zn		0.006578
M	Al	<	0.013000	O	Fe		0.018618	M	Nb	<	0.001100	O	Si		0.010923	M	Zr	<	0.001100
O	As	<	0.067000	M	Ga	<	0.001100	M	Nd	<	0.001100	M	Sm	<	0.001100				
M	Au	<	0.002100	M	Gd	<	0.001100	s	Ni	<		M	Sn	<	0.016000				
M	B	<	0.017000	M	Ge	<	0.004200	M	Os		0.002110	O	Sr	<	0.000940				
M	Ba	<	0.001100	M	Hf	<	0.001100	i	P	<		M	Ta	<	0.001100				
O	Be	<	0.000410	M	Hg		0.014895	M	Pb		0.006578	M	Tb	<	0.001100				
M	Bi	<	0.004200	M	Ho	<	0.001100	M	Pd	<	0.001100	M	Te	<	0.015000				
O	Ca		0.003351	M	In	<	0.001100	M	Pr	<	0.001100	M	Th	<	0.001100				
M	Cd		0.001365	M	Ir		0.004716	M	Pt	<	0.001100	M	Ti	<	0.004200				
M	Ce	<	0.001100	O	K		0.004716	M	Rb	<	0.001100	M	Tl	<	0.001100				
O	Co		0.017377	M	La	<	0.001100	M	Re		0.001737	M	Tm	<	0.001100				
O	Cr	<	0.006700	O	Li	<	0.000140	M	Rh	<	0.006300	M	U	<	0.001100				
M	Cs	<	0.007300	M	Lu	<	0.001100	M	Ru	<	0.019000	M	V	<	0.002100				
M	Cu		0.004096	O	Mg		0.000372	i	S	<		M	W	<	0.006300				
M	Dy	<	0.001100	O	Mn	<	0.001900	M	Sb		0.005833	O	Y	<	0.000540				
M	Er	<	0.001100	M	Mo	<	0.008400	M	Sc	<	0.002100	M	Yb	<	0.001100				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 58.69 +2 6 Ni(H2O)62+

Chemical Compatibility -Stable in HCl, HNO3, H2SO4 ,HF, H3PO4. Avoid basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO3 / LDPE container.

Ni Containing Samples (Preparation and Solution) -Metal (Soluble in HNO3); Oxides (Soluble in HCl); Ores (Dissolve in HCl / HNO3).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 60 amu	100 ppt	n/a	43Ca16O1H , 44Ca16O, 23Na37Cl
ICP-OES 221.647 nm	0.01 / 0.0009 µg/mL	1	Si
ICP-OES 231.604 nm	0.02 / 0.002 µg/mL	1	Sb, Ta, Co
ICP-OES 232.003 nm	0.02 / 0.006 µg/mL	1	Cr, Re, Os, Nb, Ag, Pt, Fe

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

December 02, 2019

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **December 02, 2023**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

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Refine your results. Redefine your industry.

Certificate of Analysis

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1.0 ACCREDITATION / REGISTRATION

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ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGV10
Lot Number:	S2-V711005
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Vanadium
Starting Material:	Vanadium Pentoxide
Starting Material Lot#:	1782
Starting Material Purity:	99.9877%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10014 ± 30 µg/mL

Density: 1.104 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10017 ± 42 µg/mL**
ICP Assay NIST SRM 3165 Lot Number: 160906

Assay Method #2 **10013 ± 30 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000110	M	Eu	<	0.000110	O	Na		0.120000	M	Se	<	0.009400	M	Zn		0.009400
O	Al		0.120000	O	Fe		0.460000	M	Nb	<	0.001300	O	Si		0.270000	M	Zr	<	0.002900
M	As	<	0.000210	M	Ga	<	0.009300	M	Nd	<	0.000610	M	Sm	<	0.000110				
M	Au	<	0.004700	M	Gd	<	0.000110	M	Ni		0.012000	M	Sn		0.003900				
M	B		0.051000	M	Ge	<	0.000410	M	Os	<	0.000110	O	Sr		0.007100				
M	Ba		0.003600	M	Hf	<	0.000110	O	P	<	0.034000	M	Ta	<	0.000110				
O	Be	<	0.000560	M	Hg	<	0.000410	M	Pb		0.001400	M	Tb	<	0.000110				
M	Bi	<	0.000210	M	Ho	<	0.000110	M	Pd	<	0.000410	M	Te	<	0.000110				
O	Ca		0.730000	M	In	<	0.000110	M	Pr	<	0.000110	M	Th	<	0.000210				
M	Cd	<	0.000610	M	Ir	<	0.000110	M	Pt	<	0.000110	M	Ti		0.017000				
M	Ce	<	0.000610	M	K		0.052000	M	Rb	<	0.000310	M	Tl	<	0.000110				
M	Co	<	0.001300	M	La	<	0.000410	M	Re		0.001700	M	Tm	<	0.000110				
O	Cr		0.170000	M	Li	<	0.000810	M	Rh	<	0.000110	M	U	<	0.000410				
M	Cs		0.005600	M	Lu	<	0.000110	M	Ru	<	0.000110	s	V	<					
M	Cu	<	0.001300	M	Mg		0.053000	i	S	<		M	W		0.002000				
M	Dy	<	0.000110	M	Mn		0.007900	M	Sb		0.078000	M	Y	<	0.000110				
M	Er	<	0.000110	M	Mo		0.094000	M	Sc	<	0.000410	M	Yb	<	0.000110				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 50.94 +5 6 H2V10O284-

Chemical Compatibility -Soluble in HCl, HNO3, H2SO4, HF, H3PO4 and strong basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO3 / LDPE container.

V Containing Samples (Preparation and Solution) -Metal (Fusion with NaOH or KOH in Ni0 or Na2CO3 / KNO3); Oxides (V2O3 - use HCl, V2O4 - use HCl or HNO3, V2O5 - use concentrated acids); Ores (Na2CO3 / KNO3 in Pt0 caution - nitrates attack Pto followed by water extraction of fuseate); Organic Matrices (Ash at 450 EC followed by dissolving according to V2O5 above) .

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 51 amu	4 ppt	N/A	34S16O1H, 35Cl16O, 38Ar13C, 36Ar15N, 36Ar14N1H, 37Cl14N,36S15N, 33S18O, 34S17O, 102Ru+2,02Pd+2
ICP-OES 290.882 nm	0.008 / 0.0008 µg/mL	1	Hf, Nb
ICP-OES 292.402 nm	0.006 / 0.001 µg/mL	1	Th
ICP-OES 309.311 nm	0.005 / 0.001 µg/mL	1	Mg, U, Th

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

December 28, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **December 28, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

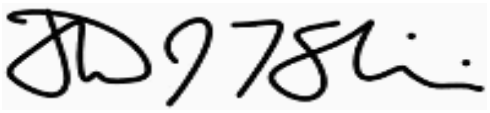
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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Certificate of Analysis

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F: 540-585-3012
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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGAL10
Lot Number:	T2-AL716102
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Aluminum
Starting Material:	Aluminum Nitrate Nonahydrate
Starting Material Lot#:	2460
Starting Material Purity:	99.9938%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10049 ± 31 µg/mL

Density: 1.087 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10059 ± 40 µg/mL**
ICP Assay NIST SRM 3101a Lot Number: 140903

Assay Method #2 **10044 ± 26 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **10049 ± 35 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.002100	M	Eu	<	0.002100	O	Na		0.352819	M	Se	<	0.005200	M	Zn	0.006018
s	Al	<		O	Fe		0.074714	M	Nb	<	0.000520	O	Si		0.017848	O	Zr	0.004358
M	As		0.008716	O	Ga		0.112072	M	Nd	<	0.000520	M	Sm	<	0.000520			
M	Au	<	0.008400	M	Gd	<	0.001100	O	Ni	<	0.006000	M	Sn		0.000747			
O	B	<	0.014000	M	Ge	<	0.005200	M	Os	<	0.000650	O	Sr		0.000518			
O	Ba		0.012867	M	Hf	<	0.004100	n	P	<		M	Ta	<	0.000520			
O	Be	<	0.000270	M	Hg	<	0.002000	M	Pb		0.002282	M	Tb	<	0.000520			
M	Bi		0.001930	M	Ho	<	0.000520	M	Pd	<	0.000520	M	Te	<	0.001100			
O	Ca		0.076790	M	In	<	0.002100	M	Pr	<	0.000520	M	Th	<	0.000520			
M	Cd	<	0.000520	M	Ir	<	0.000650	M	Pt	<	0.000520	O	Ti		0.001930			
M	Ce	<	0.001100	O	K		0.043583	M	Rb	<	0.000520	M	Tl	<	0.000520			
O	Co	<	0.005400	M	La	<	0.002100	M	Re	<	0.000520	M	Tm	<	0.000520			
O	Cr		0.006018	O	Li		0.000112	M	Rh	<	0.000520	M	U	<	0.000520			
M	Cs		0.000643	M	Lu	<	0.000520	M	Ru	<	0.002000	M	V		0.001286			
O	Cu	<	0.008300	O	Mg		0.068488	i	S	<		M	W	<	0.009800			
M	Dy	<	0.002100	O	Mn		0.000913	M	Sb	<	0.003100	M	Y	<	0.001100			
M	Er	<	0.000520	M	Mo		0.005396	O	Sc	<	0.000950	M	Yb	<	0.000520			

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 26.98 +3 6 Al(H2O)6+3
Chemical Compatibility -Soluble in HCl, HNO3, v F and v 2SO4. Avoid neutral media. Soluble in strongly basic NaOH forming the Al(OH)4(H2O)21- species. Stable with most metals and inorganic anions. The phosphate is insoluble in water and only slightly soluble in acid.
Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO3 / LDPE container.
Al Containing Samples (Preparation and Solution) -Metal (Best dissolved in HCl / HNO3); a- Al2O3 (Na2CO3 fusion in Pt0);
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 27 amu	30 ppt	N/A	12C15N, 13C14N, 1H12C14N, 11B16O, 54Cr2+, 54Fe2+
ICP-OES 167.078 nm	0.1/0.009 µg/mL	1	Fe
ICP-OES 394.401 nm	0.05/0.006 µg/mL	1	U, Ce
ICP-OES 396.152 nm	0.03/0.006 µg/mL	1	Mo, Zr, Ce

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

March 22, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **March 22, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

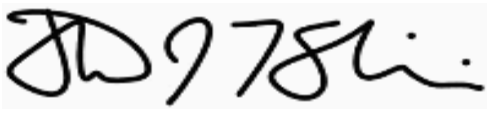
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGK10
Lot Number:	S2-K711973
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Potassium
Starting Material:	KNO3
Starting Material Lot#:	2313
Starting Material Purity:	99.9971%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 9992 ± 30 µg/mL

Density: 1.024 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1	**9987 ± 24 µg/mL** Gravimetric NIST SRM Lot Number: See Sec. 4.2
Assay Method #2	**10004 ± 84 µg/mL** ICP Assay NIST SRM 3141a Lot Number: 140813
Assay Method #3	**10007 ± 45 µg/mL** Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.001400	M	Eu	<	0.000660	O	Na		0.246220	M	Se	<	0.007900	O	Zn		0.018056
O	Al		0.001592	O	Fe		0.005909	M	Nb	<	0.000660	O	Si		0.011490	O	Zr	<	0.001600
M	As	<	0.005300	M	Ga	<	0.000660	M	Nd	<	0.000660	M	Sm	<	0.000660				
M	Au	<	0.002000	M	Gd	<	0.000660	O	Ni	<	0.004900	M	Sn	<	0.000660				
O	B	<	0.005600	M	Ge	<	0.002000	M	Os	<	0.003300	O	Sr		0.000055				
O	Ba	<	0.000860	M	Hf	<	0.000660	O	P	<	0.032000	M	Ta	<	0.000660				
O	Be	<	0.000082	M	Hg	<	0.002000	M	Pb	<	0.002300	M	Tb	<	0.000660				
M	Bi	<	0.006600	M	Ho	<	0.000660	M	Pd	<	0.000660	M	Te	<	0.017000				
O	Ca		0.031187	M	In	<	0.000660	M	Pr	<	0.000660	M	Th	<	0.000660				
O	Cd	<	0.000450	M	Ir	<	0.000660	M	Pt	<	0.002700	M	Ti	<	0.000660				
M	Ce	<	0.000660	s	K	<		M	Rb		0.476026	M	Tl	<	0.000660				
O	Co	<	0.000780	M	La	<	0.000660	M	Re	<	0.000660	M	Tm	<	0.000660				
O	Cr		0.000541	O	Li	<	0.000084	M	Rh	<	0.000660	M	U	<	0.000660				
M	Cs	<	0.000660	M	Lu	<	0.000660	M	Ru	<	0.000660	O	V	<	0.001100				
M	Cu	<	0.002700	O	Mg		0.006237	O	S		0.027905	M	W	<	0.000660				
M	Dy	<	0.000660	O	Mn		0.000476	M	Sb	<	0.000660	M	Y	<	0.000660				
M	Er	<	0.000660	M	Mo	<	0.000660	O	Sc	<	0.000340	O	Yb	<	0.000270				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 39.10 +1 (6) K+(aq)
Chemical Compatibility -Soluble in HCl, HNO3, H2SO4 and HF aqueous matrices. Avoid use of HClO4 due to insolubility of the perchlorate. Stable with all metals and inorganic anions except ClO4-.
Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO3 / LDPE container.
K Containing Samples (Preparation and Solution) - Metal (Dissolves very rapidly in water); Ores (Sodium carbonate fusion in Pt0 followed by HCl dissolution-blank levels of K in sodium carbonate critical); Organic Matrices (Sulfuric/peroxide digestion)
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 39 amu	10 ppt	n/a	38ArH, 23Na16O, 78Se
ICP-OES 404.721 nm	1.1 / 0.05 µg/mL	1	U, Ce
ICP-OES 766.490 nm	0.4 / 0.001 µg/mL	1	2nd order radiation from R.E.s on some optical designs
ICP-OES 771.531 nm	1.0 / 0.03 µg/mL	1	2nd order radiation from R.E.s on some optical designs

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

December 10, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **December 10, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

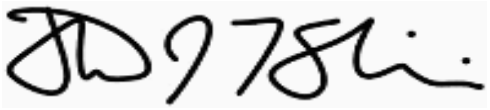
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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F: 540-585-3012
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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGMG10
Lot Number:	S2-MG704239
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Magnesium
Starting Material:	Magnesium Metal
Starting Material Lot#:	2168
Starting Material Purity:	99.9984%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10053 ± 30 µg/mL

Density: 1.053 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10022 ± 62 µg/mL**
ICP Assay NIST SRM 3131a Lot Number: 140110

Assay Method #2 **10078 ± 26 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **10033 ± 26 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O	Ag		0.002106	M	Eu	<	0.000910	O	Na		0.071075	O	Se	<	0.048000	O	Zn		0.003299
M	Al		0.003553	M	Fe		0.002538	M	Nb	<	0.000460	O	Si	<	0.032000	O	Zr	<	0.002700
M	As	<	0.001400	M	Ga	<	0.000460	M	Nd	<	0.000910	M	Sm	<	0.000460				
M	Au	<	0.001400	M	Gd	<	0.000460	O	Ni	<	0.001600	M	Sn	<	0.002300				
O	B		0.006853	M	Ge	<	0.001400	M	Os	<	0.000460	O	Sr		0.000279				
O	Ba		0.000964	M	Hf	<	0.000460	O	P		0.015230	M	Ta	<	0.000460				
O	Be	<	0.000120	M	Hg	<	0.000460	M	Pb	<	0.000460	M	Tb	<	0.000460				
M	Bi	<	0.000460	M	Ho	<	0.000460	M	Pd	<	0.003200	M	Te	<	0.007300				
O	Ca		0.053306	M	In	<	0.000460	M	Pr	<	0.000460	M	Th	<	0.000460				
O	Cd	<	0.000360	M	Ir	<	0.000460	M	Pt	<	0.001900	O	Ti	<	0.001700				
M	Ce	<	0.002300	M	K		0.048229	M	Rb		0.002411	M	Tl		0.003046				
M	Co	<	0.000910	M	La	<	0.002800	M	Re	<	0.000460	M	Tm	<	0.000460				
M	Cr	<	0.002300	O	Li		0.027922	M	Rh	<	0.000460	M	U	<	0.000460				
M	Cs		0.001040	M	Lu	<	0.000460	M	Ru	<	0.000460	M	V	<	0.000460				
O	Cu	<	0.003000	s	Mg	<		O	S	<	0.190000	M	W	<	0.000460				
M	Dy	<	0.000460	O	Mn		0.015230	M	Sb		0.020814	O	Y	<	0.000720				
M	Er	<	0.000460	M	Mo	<	0.000910	O	Sc	<	0.000480	M	Yb	<	0.000460				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 24.31 +2 6 Mg(H2O)6+2
Chemical Compatibility -Soluble in HCl, HNO3, and H2SO4 avoid HF, H3PO4 and neutral to basic media. Stable with most metals and inorganic anions forming insoluble silicates, carbonates, hydroxides, oxides, and tungstates in neutral and slightly acidic media.
Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-10% HNO3 / LDPE container.
Mg Containing Samples (Preparation and Solution) -Metal (Best dissolved in diluted HNO3); Oxide (Readily soluble in above compatible aqueous acidic solutions); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Sulfuric / peroxide digestion or nitric / sulfuric / perchloric acid decomposition, or dry ash and dissolution in dilute HCl).
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 24 amu	42 ppt	n/a	7Li17O, 48Ti+2 , 48Ca+2
ICP-OES 279.553 nm	0.0002 / 0.00003 µg/mL	1	Th
ICP-OES 280.270 nm	0.0003 / 0.00005 µg/mL	1	U, V
ICP-OES 285.213 nm	0.002 / 0.00003 µg/mL	1	U, Hf, Cr, Zr

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

April 23, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **April 23, 2025**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGCA10
Lot Number:	T2-CA716103
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Calcium
Starting Material:	CaCO3
Starting Material Lot#:	2472
Starting Material Purity:	99.9950%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10005 ± 30 µg/mL

Density: 1.039 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10005 ± 45 µg/mL**
ICP Assay NIST SRM 3109a Lot Number: 130213

Assay Method #2 **10005 ± 25 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **10005 ± 31 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.001200	M	Eu	<	0.001200	O	Na		0.006112	M	Se	<	0.024000	M	Zn		0.005362
M	Al		0.065419	O	Fe		0.009115	M	Nb	<	0.001200	O	Si		0.139417	O	Zr	<	0.006700
O	As	<	0.013000	M	Ga	<	0.015000	M	Nd	<	0.020000	M	Sm	<	0.001200				
M	Au	<	0.017000	M	Gd	<	0.004800	O	Ni		0.000793	M	Sn	<	0.003600				
O	B		0.001179	M	Ge	<	0.003600	M	Os	<	0.001200	M	Sr		0.081505				
O	Ba		0.002788	M	Hf	<	0.001200	O	P	<	0.041000	M	Ta	<	0.001200				
O	Be	<	0.000410	M	Hg	<	0.004800	M	Pb		0.001608	M	Tb	<	0.001200				
M	Bi		0.001608	M	Ho	<	0.001200	M	Pd	<	0.001200	M	Te	<	0.003600				
s	Ca	<		M	In	<	0.001200	M	Pr		0.000257	M	Th	<	0.001200				
O	Cd	<	0.001300	M	Ir	<	0.001200	M	Pt	<	0.003600	O	Ti	<	0.001900				
M	Ce		0.001029	O	K		0.009759	M	Rb	<	0.001200	M	Tl	<	0.001200				
O	Co		0.000418	M	La		0.001823	M	Re	<	0.001200	M	Tm	<	0.001200				
O	Cr		0.003324	O	Li	<	0.007300	M	Rh	<	0.001200	M	U		0.002144				
M	Cs		0.007399	M	Lu		0.000128	M	Ru	<	0.001200	M	V		0.001286				
O	Cu	<	0.011000	M	Mg		1.286934	O	S		0.055767	O	W	<	0.024000				
M	Dy	<	0.002400	O	Mn		0.004611	M	Sb	<	0.009600	O	Y		0.000536				
M	Er	<	0.002400	M	Mo		0.003539	O	Sc	<	0.001400	M	Yb	<	0.001200				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 40.08 +2 6 Ca(H2O)6+2
Chemical Compatibility - Soluble in HCl and HNO3. Avoid H2SO4, vF, v3PO4 and neutral to basic media. Stable with most metals and inorganic anions forming insoluble silicate, carbonate, hydroxide, oxide, fluoride, sulfate, oxalate, chromate, arsenate, and tungstate in neutral aqueous media.
Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-10% HNO3 / LDPE container.
Ca Containing Samples)Preparation and Solution) -Metal (best dissolved in diluted HNO3); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (dry ash and dissolution in dilute HCl. Do not heat when dissolving to avoid precipitation of SiO2). The oxide, hydroxide, carbonate, phosphate, and fluoride of calcium are soluble in % levels of HCl or HNO3. The sulfates (gypsum, anhydrite, etc.), certain silicates, and complex compounds require fusion with Na2CO3 followed by HCl / water dissolution. Note that contamination is a very real problem when analyzing for trace levels.
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 44 amu	1200 ppt	n/a	16O212C, 28Si16O, 88Sr
ICP-OES 393.366 nm	0.0002 / 0.00004 µg/mL	1	U, Ce
ICP-OES 396.847 nm	0.0005 / 0.00006 µg/mL	1	Th
ICP-OES 422.673 nm	0.01 / 0.001 µg/mL	1	Ge

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

March 14, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **March 14, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

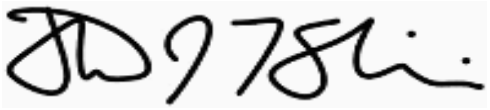
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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Certificate of Analysis

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGNA10
Lot Number:	T2-NA717221
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Sodium
Starting Material:	Na2CO3
Starting Material Lot#:	2358 and 2453
Starting Material Purity:	99.9977%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 9977 ± 30 µg/mL

Density: 1.033 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **9974 ± 18 µg/mL**
Gravimetric NIST SRM Lot Number: See Sec. 4.2

Assay Method #2 **9977 ± 34 µg/mL**
ICP Assay NIST SRM 3152a Lot Number: 200413

Assay Method #3 **9987 ± 31 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000930	M	Eu	<	0.000930	s	Na	<		M	Se	<	0.003800	O	Zn		0.000138
M	Al		0.004409	O	Fe		0.002393	M	Nb	<	0.000930	O	Si		0.056696	O	Zr	<	0.003200
O	As	<	0.023000	M	Ga	<	0.000930	M	Nd	<	0.000930	M	Sm	<	0.000930				
O	Au	<	0.004100	M	Gd	<	0.000930	O	Ni	<	0.003000	M	Sn	<	0.002800				
O	B		0.001385	M	Ge	<	0.004700	M	Os	<	0.000930	O	Sr		0.000251				
M	Ba		0.004031	M	Hf	<	0.000930	O	P		0.010205	M	Ta	<	0.000930				
O	Be	<	0.000130	M	Hg	<	0.000930	M	Pb	<	0.000930	M	Tb	<	0.000930				
M	Bi	<	0.000930	M	Ho	<	0.000930	M	Pd	<	0.000930	M	Te	<	0.001900				
O	Ca		0.176388	M	In	<	0.000930	M	Pr	<	0.000930	M	Th		0.000352				
O	Cd	<	0.000860	M	Ir	<	0.000930	M	Pt	<	0.000930	O	Ti		0.000592				
M	Ce	<	0.001900	O	K		0.302380	M	Rb	<	0.000930	M	Tl	<	0.000930				
O	Co	<	0.001800	O	La	<	0.002100	M	Re	<	0.000930	M	Tm	<	0.000930				
M	Cr	<	0.002800	O	Li		0.000031	M	Rh	<	0.000930	M	U	<	0.000930				
M	Cs	<	0.000930	M	Lu	<	0.000930	M	Ru	<	0.001900	O	V	<	0.001600				
O	Cu	<	0.003900	O	Mg		0.026458	O	S		0.040317	O	W	<	0.028000				
M	Dy	<	0.000930	O	Mn	<	0.000740	M	Sb	<	0.000930	O	Y	<	0.000860				
M	Er	<	0.000930	O	Mo	<	0.003600	O	Sc	<	0.000610	O	Yb	<	0.000250				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 22.99 +1 (6) Na+(aq) largely ionic in nature

Chemical Compatibility -Soluble in HCl, HNO3, H2SO4 and HF aqueous matrices. Stable with all metals and inorganic anions.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO3 / LDPE container.

Na Containing Samples (Preparation and Solution) - Metal (Dissolves very rapidly in water); Ores (Lithium carbonate fusion in graphite crucible followed by HCl dissolution - blank levels of Na in lithium carbonate critical); Organic Matrices (Sulfuric / peroxide digestion or nitric/sulfuric/perchloric acid decomposition).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 23 amu	310 ppt	n/a	46Ti+2 , 46Ca+2
ICP-OES 330.237 nm	2.0 / 0.09 µg/mL	1	Pd, Zn
ICP-OES 588.995 nm	0.03 / 0.006 µg/mL	1	2nd order radiation from R.E.s on some optical designs
ICP-OES 589.595 nm	0.07 / 0.00009 µg/mL	1	2nd order radiation from R.E.s on some optical designs

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

April 20, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **April 20, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

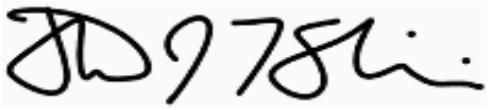
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGU1
Lot Number:	S2-U707914
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	1 000 µg/mL ea: Uranium
Starting Material:	Uranyl Nitrate Hexahydrate
Starting Material Lot#:	P2-2322
Starting Material Purity:	99.9997%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 999 ± 5 µg/mL

Density: 1.010 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **998 ± 5 µg/mL**
ICP Assay NIST SRM 3164 Lot Number: 080521

Assay Method #2 **1001 ± 6 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Certified Abundance:

IV's Certified Abundance

Isotope	Atom %
Uranium 238U	99.8 ± 0.1
Uranium 235U	0.19 ± 0.05

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000270	M	Eu	<	0.000270	M	Na	<	0.011000	M	Se	<	0.009300	M	Zn	0.002358
M	Al	<	0.011000	M	Fe		0.003222	M	Nb	<	0.000270	M	Si	<	0.160000	M	Zr	< 0.001100
M	As	<	0.002400	M	Ga	<	0.000270	M	Nd	<	0.000270	M	Sm	<	0.000270			
M	Au	<	0.000270	M	Gd	<	0.000270	M	Ni	<	0.020000	M	Sn	<	0.011000			
M	B	<	0.000270	M	Ge	<	0.000800	M	Os	<	0.001900	M	Sr	<	0.000270			
M	Ba	<	0.003800	M	Hf	<	0.000270	i	P	<		M	Ta	<	0.000270			
M	Be	<	0.000270	M	Hg	<	0.000540	M	Pb	<	0.002200	M	Tb	<	0.000270			
M	Bi	<	0.000270	M	Ho	<	0.000270	M	Pd	<	0.000540	M	Te	<	0.003800			
M	Ca	<	0.140000	M	In	<	0.000270	M	Pr	<	0.000270	M	Th		0.000129			
M	Cd	<	0.000270	M	Ir	<	0.000270	M	Pt	<	0.000270	M	Ti	<	0.002700			
M	Ce	<	0.000540	O	K	<	0.250000	M	Rb	<	0.000800	M	Tl	<	0.000270			
M	Co	<	0.000800	M	La		0.000117	M	Re	<	0.064000	M	Tm	<	0.000270			
M	Cr		0.000943	M	Li	<	0.003000	M	Rh	<	0.000270	s	U	<				
M	Cs		0.000106	M	Lu	<	0.000270	M	Ru	<	0.000540	M	V	<	0.000540			
M	Cu	<	0.001100	M	Mg	<	0.003000	i	S	<		M	W	<	0.000540			
M	Dy	<	0.000270	M	Mn	<	0.006900	M	Sb	<	0.000270	M	Y	<	0.000270			
M	Er	<	0.000270	M	Mo	<	0.006400	M	Sc	<	0.000540	M	Yb	<	0.000270			

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 238.03 +6 8 UO22+(uranyl)
Chemical Compatibility - Soluble in HCl and HNO3. Avoid H3PO4. H2SO4 and HF matrices should not be a problem depending upon [U]. Although the UO22+ ion is distinctly basic, any U+4 will precipitate in basic media. UO22+salts are generally soluble in water and UO22+ is stable with most metals and inorganic anions. The uranyl phosphate is insoluble in water. UF4 and UF6 are water soluble.
Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO3 / LDPE container.
U Containing Samples (Preparation and Solution) -Metal (Dissolves rapidly in HCl and HNO3); Oxide (Soluble in HNO3); Ores (Digest for 1-2 hours with 1 gram of ore to 30 mL 1:1 HNO3. Silica insolubles are removed by filtration after bringing the sample to fumes with conc. H2SO4.)
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 238 amu	2 ppt	N/A	206Pb16O2
ICP-OES 263.553 nm	0.3 / 0.01 µg/mL	1	Ce, Ir, Th, Rh, W, Zr, Ta, Ti, V, Hf, Fe, Re, Ru
ICP-OES 367.007 nm	0.3 / 0.02 µg/mL	1	Th, Ce
ICP-OES 385.958 nm	0.3 / 0.01 µg/mL	1	Th, Fe

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

August 28, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **August 28, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
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info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	AR-ICVMS-2
Lot Number:	T2-MEB719895
Matrix:	3% (v/v) HNO3 tr. HF
Value / Analyte(s):	2.5 µg/mL ea: Molybdenum, Antimony

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Antimony, Sb	**2.499 ± 0.015 µg/mL**	**Molybdenum, Mo**	**2.500 ± 0.017 µg/mL**

Density: 1.014 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Mo	ICP Assay	3134	130418
Mo	Calculated		See Sec. 4.2
Sb	ICP Assay	3102a	140911
Sb	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 06, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **June 06, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

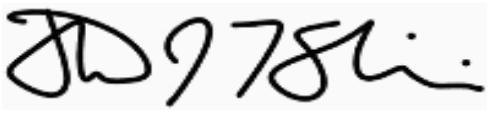
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	AR-ICVMS-3
Lot Number:	T2-MEB719896
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	250 µg/mL ea:

Aluminum, Calcium,
Iron, Potassium,
Magnesium, Sodium,

4 µg/mL ea:
Selenium,

2.5 µg/mL ea:

Thorium,	Thallium,
Uranium,	Vanadium,
Zinc,	Manganese,
Cadmium,	Cobalt,
Chromium,	Copper,
Arsenic,	Barium,
Beryllium,	Nickel,
Lead,	Silver

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	250.0 ± 0.9 µg/mL	Arsenic, As	2.500 ± 0.018 µg/mL
Barium, Ba	2.501 ± 0.013 µg/mL	Beryllium, Be	2.501 ± 0.015 µg/mL
Cadmium, Cd	2.501 ± 0.013 µg/mL	Calcium, Ca	250.0 ± 1.3 µg/mL
Chromium, Cr	2.500 ± 0.015 µg/mL	Cobalt, Co	2.500 ± 0.014 µg/mL
Copper, Cu	2.500 ± 0.014 µg/mL	Iron, Fe	250.0 ± 1.0 µg/mL
Lead, Pb	2.500 ± 0.013 µg/mL	Magnesium, Mg	250.0 ± 1.3 µg/mL
Manganese, Mn	2.500 ± 0.014 µg/mL	Nickel, Ni	2.500 ± 0.014 µg/mL
Potassium, K	250.0 ± 1.2 µg/mL	Selenium, Se	4.002 ± 0.024 µg/mL
Silver, Ag	2.501 ± 0.017 µg/mL	Sodium, Na	250.0 ± 1.2 µg/mL
Thallium, Tl	2.500 ± 0.017 µg/mL	Thorium, Th	2.499 ± 0.013 µg/mL
Uranium, U	2.501 ± 0.015 µg/mL	Vanadium, V	2.500 ± 0.014 µg/mL
Zinc, Zn	2.500 ± 0.014 µg/mL		

Density: 1.042 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	160729
Ag	Volhard	999c	999c
Ag	Calculated		See Sec. 4.2
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
As	ICP Assay	3103a	100818
Ba	ICP Assay	3104a	140909
Ba	Calculated		See Sec. 4.2
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Be	Calculated		See Sec. 4.2
Ca	ICP Assay	3109a	130213
Ca	EDTA	928	928
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Cd	Calculated		See Sec. 4.2
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Co	Calculated		See Sec. 4.2
Cr	ICP Assay	3112a	170630
Cr	Calculated		See Sec. 4.2
Cu	ICP Assay	3114	121207
Cu	EDTA	928	928
Cu	Calculated		See Sec. 4.2
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
K	ICP Assay	3141a	140813
K	Gravimetric		See Sec. 4.2
Mg	ICP Assay	3131a	140110
Mg	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Mn	Calculated		See Sec. 4.2
Na	ICP Assay	3152a	120715
Na	Gravimetric		See Sec. 4.2
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
Ni	Calculated		See Sec. 4.2
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Pb	Calculated		See Sec. 4.2
Se	ICP Assay	3149	100901
Se	Calculated		See Sec. 4.2
Th	EDTA	928	928
Th	Calculated		See Sec. 4.2
Tl	ICP Assay	3158	151215
Tl	Calculated		See Sec. 4.2
U	ICP Assay	3164	080521
U	Calculated		See Sec. 4.2

V	ICP Assay	3165	160906
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928
Zn	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Certified Abundance:

IV's Certified Abundance

Isotope	Atom %
Uranium 238U	99.8 ± 0.1
Uranium 235U	0.19 ± 0.05

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Note: This solution contains Silver (Ag), please refer to our Sample Preparation Guide for more information.

https://www.inorganicventures.com/sample-preparation-guide/samples-containing-silver

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

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- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 06, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **June 06, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

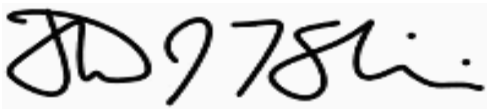
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	AR-6020ICS-0A10
Lot Number:	T2-MEB719898
Matrix:	1.4% (v/v) HNO3
Value / Analyte(s):	1 000 µg/mL ea: Chloride,
	200 µg/mL ea: Carbon,
	100 µg/mL ea: Calcium, Aluminum, Iron, Potassium, Magnesium, Sodium, Phosphorus, Sulfur,
	2 µg/mL ea: Titanium, Molybdenum

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	**100.0 ± 0.4 µg/mL**	**Calcium, Ca**	**100.0 ± 0.5 µg/mL**
Carbon, C	**200.1 ± 0.5 µg/mL**	**Chloride, Cl**	**1 000 ± 5 µg/mL**
Iron, Fe	**100.0 ± 0.5 µg/mL**	**Magnesium, Mg**	**100.0 ± 0.5 µg/mL**
Molybdenum, Mo	**2.001 ± 0.014 µg/mL**	**Phosphorus, P**	**100.0 ± 0.6 µg/mL**
Potassium, K	**100.0 ± 0.5 µg/mL**	**Sodium, Na**	**100.0 ± 0.5 µg/mL**
Sulfur, S	**100.0 ± 0.5 µg/mL**	**Titanium, Ti**	**2.001 ± 0.015 µg/mL**

Density: 1.009 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
C	Acidimetric	84L	84L
Ca	ICP Assay	3109a	130213
Ca	EDTA	928	928
Cl	Acidimetric	84L	84L
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
K	ICP Assay	3141a	140813
K	Gravimetric		See Sec. 4.2
Mg	ICP Assay	3131a	140110
Mg	EDTA	928	928
Mo	ICP Assay	3134	130418
Na	ICP Assay	3152a	120715
Na	Gravimetric		See Sec. 4.2
P	ICP Assay	3139a	060717
P	Acidimetric	84L	84L
S	Acidimetric	84L	84L
S	ICP Assay	traceable to 3154	P2-S680745
Ti	ICP Assay	3162a	130925

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

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u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

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- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

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- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 07, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **June 07, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

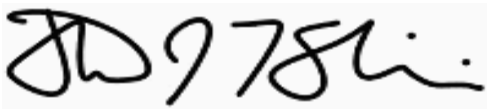
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 6020B UCT-KED

Total Metals

LDW23-SS1000

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0071-01 B	SDG:	23C0071
Sampled:	03/02/23 09:33	Prepared:	04/19/23 12:43	File ID:	XDT_m1230510A-095
% Solids:	43.84	Preparation:	SWN EPA 3050B	Analyzed:	05/10/23 23:33
Batch:	BLD0452	Sequence:	SLE0204	Initial/Final:	1.088 g Wet / 50 mL
Instrument:	ICPMS1			Calibration:	GE00040

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7440-38-2	Arsenic	14.8	20	0.08	0.42	
7440-43-9	Cadmium	0.41	20	0.06	0.21	
7440-50-8	Copper	70.3	20	0.73	1.05	B
7440-66-6	Zinc	130	20	6.1	12.6	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 6020B UCT-KED

Total Metals

LDW23-SS1037

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0071-02 B	SDG:	23C0071
Sampled:	03/02/23 09:56	Prepared:	04/19/23 12:43	File ID:	XDT_m1230510A-096
% Solids:	49.83	Preparation:	SWN EPA 3050B	Analyzed:	05/10/23 23:37
Batch:	BLD0452	Sequence:	SLE0204	Initial/Final:	1.003 g Wet / 50 mL
Instrument:	ICPMS1			Calibration:	GE00040

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7440-38-2	Arsenic	13.0	20	0.08	0.40	
7440-43-9	Cadmium	0.34	20	0.06	0.20	
7440-50-8	Copper	54.2	20	0.35	1.00	B
7440-66-6	Zinc	108	20	5.8	12.0	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 6020B UCT-KED

Total Metals

LDW23-SS1036

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0071-03 B	SDG:	23C0071
Sampled:	03/02/23 10:10	Prepared:	04/19/23 12:43	File ID:	XDT_m1230510A-097
% Solids:	47.90	Preparation:	SWN EPA 3050B	Analyzed:	05/10/23 23:41
Batch:	BLD0452	Sequence:	SLE0204	Initial/Final:	1.032 g Wet / 50 mL
Instrument:	ICPMS1			Calibration:	GE00040

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7440-38-2	Arsenic	15.2	20	0.08	0.40	
7440-43-9	Cadmium	0.42	20	0.06	0.20	
7440-50-8	Copper	67.6	20	0.71	1.01	B
7440-66-6	Zinc	135	20	5.9	12.1	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 6020B UCT-KED

Total Metals

LDW23-SS1044

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0071-04 B	SDG:	23C0071
Sampled:	03/02/23 10:22	Prepared:	04/19/23 12:43	File ID:	XDT_m1230510A-098
% Solids:	43.23	Preparation:	SWN EPA 3050B	Analyzed:	05/10/23 23:46
Batch:	BLD0452	Sequence:	SLE0204	Initial/Final:	1.037 g Wet / 50 mL
Instrument:	ICPMS1			Calibration:	GE00040

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7440-38-2	Arsenic	16.0	20	0.08	0.45	
7440-43-9	Cadmium	0.41	20	0.07	0.22	
7440-50-8	Copper	71.8	20	0.39	1.12	B
7440-66-6	Zinc	138	20	6.5	13.4	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 6020B UCT-KED

Total Metals

LDW23-SS1048

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0071-05 B	SDG:	23C0071
Sampled:	03/02/23 10:32	Prepared:	04/19/23 12:43	File ID:	XDT_m1230510A-099
% Solids:	49.02	Preparation:	SWN EPA 3050B	Analyzed:	05/10/23 23:50
Batch:	BLD0452	Sequence:	SLE0204	Initial/Final:	1.049 g Wet / 50 mL
Instrument:	ICPMS1			Calibration:	GE00040

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7440-38-2	Arsenic	12.5	20	0.07	0.39	
7440-43-9	Cadmium	0.39	20	0.06	0.19	
7440-50-8	Copper	59.6	20	0.34	0.97	B
7440-66-6	Zinc	119	20	5.7	11.7	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 6020B UCT-KED

Total Metals

LDW23-SS1054

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0071-06 B	SDG:	23C0071
Sampled:	03/02/23 10:41	Prepared:	04/19/23 12:43	File ID:	XDT_m1230510A-100
% Solids:	47.49	Preparation:	SWN EPA 3050B	Analyzed:	05/10/23 23:55
Batch:	BLD0452	Sequence:	SLE0204	Initial/Final:	1.075 g Wet / 50 mL
Instrument:	ICPMS1			Calibration:	GE00040

CAS NO.	Analyte	Concentration (mg/kg dry)	Dilution Factor	MDL	MRL	Q
7440-38-2	Arsenic	11.5	20	0.07	0.39	
7440-43-9	Cadmium	0.34	20	0.06	0.20	
7440-50-8	Copper	54.3	20	0.34	0.98	B
7440-66-6	Zinc	114	20	5.7	11.8	

PREPARATION BATCH SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC SDG: 23C0071

Client: Anchor QEA, LLC Project: AOC5 MR Phase 1

Batch: BLD0452 Batch Matrix: Solid Preparation: SWN EPA 3050B

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW23-SS1000	23C0071-01	XDT_m1230510A-095	04/19/23 12:43	
LDW23-SS1037	23C0071-02	XDT_m1230510A-096	04/19/23 12:43	
LDW23-SS1036	23C0071-03	XDT_m1230510A-097	04/19/23 12:43	
LDW23-SS1044	23C0071-04	XDT_m1230510A-098	04/19/23 12:43	
LDW23-SS1048	23C0071-05	XDT_m1230510A-099	04/19/23 12:43	
LDW23-SS1054	23C0071-06	XDT_m1230510A-100	04/19/23 12:43	
Blank	BLD0452-BLK1	XDT_m1230501-162	04/19/23 12:52	
LCS	BLD0452-BS1	XDT_m1230501-163	04/19/23 12:52	

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Digestion Log

4/18/23 4/19/23

Analyst: AR Date: 4/18/23- Time: 1543 - 1252 Balance ID: BAL10

Matrix: Soil Block ID: 16 Block Temp: 93°C Thermometer: 20-4

ARI Sample ID	Btl #	pH<2	Prep Code: SWN Initial Wt (g) Vol (mL)	Prep Code: SWN Final Vol (mL)	Prep Code: Initial Wt (g) Vol (mL)	Prep Code: Final Vol (mL)	Comments
23A419-01	D		1.041	50			
-02			1.013				
-03			1.046				
-04			1.009				
-05			1.060				
-06			1.087				
-07			1.069				
-08			1.050				
-09			1.013				
-10			1.046				
-11			1.038				
-12			1.034				
23C71-01	B		1.088				
-02			1.003				
-03			1.032				
-04			1.037				
-05			1.049				
-06			1.075				
23C109-02			1.077				
-03	C		1.049				
BLD452-blk	—		—				23A419-01
-bs	—		—				
-dup	—		1.045				
-MS	—		1.045				
-MSD	—		1.041				
—	—	—	—	—	—	—	—

Chemical/Reagent ID:

HNO_3: L26078 1:1 HNO_3: L33605 HCl: — H_2O_2: K1105L6

Tube Lot#: 2210117 Boiling Chip Lot#: — (DoD Only)

Form I

METHOD BLANK DATA SHEET

EPA 6020B UCT-KED

Total Metals

Blank

Laboratory: Analytical Resources, LLC | SDG: 23C0071

Client: Anchor QEA, LLC | Project: AOC5 MR Phase 1

Batch: BLD0452 | Laboratory ID: BLD0452-BLK1 | Prepared: 04/19/23 12:52

Matrix: Solid | Preparation: SWN EPA 3050B | Analyzed: 05/02/23 04:20

Sequence: SLE0017 | Calibration: GE00007 | Instrument: ICPMS1

CAS NO.	Analyte	Concentration (mg/kg wet)	Dilution Factor	MDL	MRL	Q
7440-38-2	Arsenic-75a	ND	20	0.04	0.20	U
7440-43-9	Cadmium-111	ND	20	0.03	0.10	U
7440-50-8	Copper-63	0.30	20	0.17	0.50	J
7440-50-8	Copper-65	ND	20	0.35	0.50	U
7440-66-6	Zinc-66	ND	20	2.9	6.0	U

LCS / LCS DUPLICATE RECOVERY

EPA 6020B UCT-KED

Total Metals

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Matrix:	Solid	Analyzed:	05/02/23 04:25
Batch:	BLD0452	Laboratory ID:	BLD0452-BS1
Preparation:	SWN EPA 3050B	Sequence Name:	LCS
Initial/Final:	1 g / 50 mL		

COMPOUND	SPIKE ADDED (mg/kg wet)	LCS CONCENTRATION (mg/kg wet)	Q	LCS % REC. #	QC LIMITS REC.
Arsenic-75a	25.0	24.9		99.7	80 - 120
Cadmium-111	25.0	26.4		106	80 - 120
Copper-63	25.0	28.2	B	113	80 - 120
Copper-65	25.0	27.9	B	112	80 - 120
Zinc-66	80.0	83.3		104	80 - 120

* Indicates values outside of QC limits

INITIAL CALIBRATION DATA

EPA 6020B

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GE00007	Instrument:	ICPMS1
Calibration Date:	05/01/2023 15:09		

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF
Silver-107	0	0	0.2	22930	10	22474.8	20	22084.9	50	21252.08	100	20882.41
Chromium-52	0	0	0.5	73122	10	31470.5	20	29751.2	50	28230.68	100	27662.22
Chromium-53	0	0	0.5	3658	10	3423.5	20	3351.35	50	3271.16	100	3198.51
Lead-208	0	0	0.1	104790	10	99159.8	20	96064.45	50	96430.36	100	91786.07

INITIAL CALIBRATION DATA

EPA 6020B

Laboratory: Analytical Resources, LLC
Instrument: ICPMS1
Calibration: GE00007
Calibration Date: 5/1/2023

COMPOUND	Mean RF	RF RSD	Linear COD	Quad COD	COD Limit	Q
Silver-107	18270.7	49.2	0.9998		0.998	
Chromium-52	31706.1	74.0	0.9999		0.998	
Chromium-53	2817.087	49.3	0.9998		0.998	
Lead-208	81371.78	49.3	0.9994		0.998	

INITIAL CALIBRATION DATA

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GE00007
Instrument: ICPMS1
Calibration Date: 05/01/2023 15:09

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF
Arsenic-75a	0	0	0.2	340	10	356.2	20	355.05	50	346.54	100	343.07
Cadmium-111	0	0	0.1	440	10	378.4	20	359.6	50	358.48	100	351.15
Cadmium-114	0	0	0.1	910	10	934.1	20	942.15	50	922.18	100	908.4
Copper-63	0	0	0.5	11154	10	5224.2	20	5190.7	50	4946.72	100	4794.8
Copper-65	0	0	0.5	5866	10	2686.1	20	2671.85	50	2563.78	100	2459.64
Zinc-66	0	0	6	666.6667	10	705.1	20	684.2	50	669.04	100	639.07
Zinc-67	0	0	6	104.6667	10	118.4	20	118.15	50	110.9	100	108.75

INITIAL CALIBRATION DATA

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Instrument: ICPMS1
Calibration: GE00007
Calibration Date: 5/1/2023

COMPOUND	Mean RF	RF RSD	Linear COD	Quad COD	COD Limit	Q
Arsenic-75a	290.1433	49.0	0.9999		0.998	
Cadmium-111	314.605	50.1	0.9999		0.998	
Cadmium-114	769.4717	49.0	0.9999		0.998	
Copper-63	5218.403	67.9	0.9997		0.998	
Copper-65	2707.895	68.9	0.9995		0.998	
Zinc-66	560.6794	49.1	0.9994		0.998	
Zinc-67	93.47778	49.3	0.9996		0.998	

Analytical Resources, Incorporated
Analytical Chemists and Consultants

ICP/MS - 01 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 85DN5032601

Analysis Date: 5/1/23 **Analyst:** MS **Sequence:** SLEØØ17 **Cal:** GEØØØØ7

All corrections made by analyst unless otherwise noted. MS 5/1/23

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
	✓	SEQ-CAL1			
		-CAL2			
		-CAL3			
		-CAL4			
		-CAL5			
		-CAL6			Ge noisy
	↓	-IBL1			
		SEQ-~~1~~ CAL1	L484Ø		
		-CAL2	L4627		Ge sl. noisy-%R & Analytes OK
		-CAL3	L4628		
		-CAL4	L4629		
		-CAL5	L4779		
		-CAL6	L463Ø		
		-IBL1	—		
		-ICV1	L3575		
		-ICB1	L484Ø		
		-CCV1	L4779		
		-CCB1	L484Ø		
	✓	-CRL1	—		Cr↑
	✓	-CRL1	—		↓
		-CRL1	L4627		Re-poured
		-IFA1	L4688		V^{-1}, Cr^{53}↑
		-IFB1	L4689		V^{-1}↑
		-MCV1	L478Ø		

Analytical Resources, Incorporated
Analytical Chemists and Consultants

ICP/MS - 01 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 85DN5032601

Analysis Date: 5/1/23 **Analyst:** MS **Sequence:** _____ **Cal:** _____

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ-HCV2	L4781		
		↓ -IBL2	—		
		↓ -CCV2			
		↓ -CCB2			
		BLEΦΦ18-BLK1	REN		Li, Sc, In, Tb sl. noisy - XRd Analytes OK
		↓ -BS1	↓		
		BLDΦ785-BLK2			Cr only
		↓ -BS2			↓
		23DΦ633-Φ1		10	
		23DΦ637-Φ1		↓	
		23DΦ508-Φ1		2	
		23CΦ678-Φ9			Tl only
		↓ -Φ8	↓		↓
		SEQ-IBL3			
		↓ -CCV3			
		↓ -CCB3			
		BLDΦ296-BLK2	REN		Cr, V only
		↓ -BS2	↓		↓
		BLDΦ439-BLK2			Cr only
		↓ -BS2	↓		↓
		23CΦ732-Φ1			Tl only
		23CΦ69Φ-Φ1		20	Ag, Be, Cr, *Mn, Pb, Tl only
		BLDΦ292-Dup2	↓	↓	↓
		↓ -MS2	↓	↓	↓

Analytical Resources, Incorporated
Analytical Chemists and Consultants

ICP/MS - 01 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 85DN5032601

Analysis Date: 5/1/23 **Analyst:** MB **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted. MB 5/1/23

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		BLΦ292-MSD2	REN	20	Ag, Be, Cr, Pb, Tl only
		SEQ-IBL4			
		↓ -CCV4			
		↓ -CCB4			
		23CΦ584-Φ2	REN	2	Ag, Be, Fe, V only
		BLΦ181-DUP3	↓	↓	↓
		↓ -MS3			
		230Φ67Φ-Φ1			
		230Φ612-Φ1			
		230Φ599-Φ1		↓	Li↑ - Not Needed
		230Φ611-Φ1			
		230Φ525-1Φ		2	Li↑ - Not Needed Cr only
		↓ -11	↓	↓	↓ ↓ Cr, Cu only
		SEQ-IBL5			
		↓ -CCV5			
		↓ -CCB5			
	✓	↓ -CAL1			Be, Ni, Tl, V Removed
	✓	↓ -CCV6			Std Made noisy
		~~-CCB6~~ CCV6			
		↓ -CCB6			
		230Φ137-Φ2	REN		Cr only
		230Φ525-Φ9	↓		↓
		↓ -12	↓		↓
		SEQ-IBL6			

Analytical Resources, Incorporated
Analytical Chemists and Consultants

ICP/MS - 01 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 85DN5032601

Analysis Date: 5/1/23 **Analyst:** MB **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		230Φ525-Φ8	REN	5	Cr only
		↓ -Φ7	↓	↓	↓
		BLDΦ785-DUP2			
		↓ -MS2			
		↓ -MSD2	↓	↓	↓
		SEQ-IBL7			
		↓ -CCV7			
		↓ -CCB7			
		230ΦΦΦ2-Φ1	REN		Fe,Mn only
		↓ -Φ2	↓		↓
		↓ -Φ5	↓		↓
		↓ -Φ6	↓		↓
		↓ -Φ3	↓	2	↓
		↓ -Φ4	↓	↓	Sc, Si noisy - % Rec analytes OK ↓
		23CΦ584-Φ1	↓	↓	Ag, Fe only
		BLDΦ18Φ-DUP3	↓	↓	↓
		↓ -MS3	↓	↓	↓
		SEQ-IBL8			
		↓ -CCV8			
		↓ -CCB8			
		23CΦ672-13	REN		Fe,Pb only
		↓ -14	↓		↓
678→672		↓ -Φ2	↓		↓
		↓ -Φ1	↓		

Analytical Resources, Incorporated
Analytical Chemists and Consultants

ICP/MS - 01 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 85DN5032601

Analysis Date: 5/1/23 **Analyst:** MS **Sequence:** _____ **Cal:** _____

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		23C0672-03	REN		
		-04			
		-05			
		-06			
		-07			
		SEQ-IBL9			
		-CCV9			
		-CCB9			
		23C0672-08	REN		
		-09			
		-10			
		-11			Sc? No Fe
		-12			
		-15			Sc? No Fe
		-16			↓ ↓
		2300370-01			Co only
		-03		5	↓
		SEQ-IBLA			
		-CCVA			
		-CCBA			
	✓	-CAL1			
		-CCVB			
		-CCBB			
		23C0584-04	REN	20	Mn only

Analytical Resources, Incorporated
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ICP/MS - 01 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 85DN5032601

Analysis Date: 5/1/23 **Analyst:** MB **Sequence:** — **Cal:** —

All corrections made by analyst unless otherwise noted. MB 5/1/23

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		23C0584-03	REN	20	Fe, Mn only
		-13		↓	
		-05			Sc, Sr, Mn Sl. noisy - OK
		-07			
		-09			
		-11			↓
		23D0215-01		2	Cu, Pb only
		23D0248-01	↓	100	As only
		SEQ-IBLB			
		-CCVC			
		-CCBC			
		23C0584-14	REN		Fe only
		-15			↓
		-16			
		-17			
		-18			
		-19			
		-20			↓
		23D0211-01			Pb only
		-02	↓		↓
		SEQ-IBLC			
		-CCVD			
		-CCBD			
		BLD0396-BLK1	SVN	20	Cu, Pb ½RL (0.291 / 0.279)

Analytical Resources, Incorporated
Analytical Chemists and Consultants

ICP/MS - 01 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 85DN5032601

Analysis Date: 5/1/23 **Analyst:** MB **Sequence:** — **Cal:** —

All corrections made by analyst unless otherwise noted. MB 5/1/23

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		BLDΦ396-BS1	SLWN	20	
		230ΦΦ62-Φ2	REN		Cr only
		-Φ4	↓	↓	↓
		-Φ6			
		-Φ8			
		BLDΦ439-DUP2			
		-MS2			
		-MSD2			Sc group 1, noisy - %RSD values OK
		SEQ-IBLD			
		-CCVE			
		-CCBE			
		BLDΦ452-BLK1	SLWN	20	Cu > ½RL (0.362 / 0.300)
		-BS1	↓	↓	
		23CΦ658-Φ1	REN		Fe only
		-Φ5	↓	↓	↓
		23CΦ69Φ-Φ7			
		SEQ-IBLE			
		23DΦ137-Φ1	REN	2	Cr only
		BLDΦ592-DUP4	↓	↓	↓
		-MS4			
		SEQ-IBLF			
		-CCVF			
		-CCBF			
	✓	-CAL1			

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 85DN5032601

Analysis Date: 5/1/23 **Analyst:** MB **Sequence:** — **Cal:** —

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ-CCVG			
		↓ -CCBG			
		BLQ$5Φ4-BLK1	SWN	20	Cu > ½RL (0.287 / 0.280)
		↓ -BS1	↓	↓	
		23CΦ715-Φ3	REN		Fe only
		↓ -Φ5	↓		↓
		↓ -Φ7	↓	↓	
		SEQ-IBLG			
		230Φ135-Φ2	REN		Pb only
		BLQΦ5Φ9-DUP3	↓		↓
		↓ -MS3	↓		Sc↑ - Not Needed
		SEQ-IBLH			
		↓ -CCVH			
		↓ -CCBH			
		230Φ2Φ2-Φ1	REN		Pb only
		BLQΦ659-DUP2	↓		↓
		↓ -MS2	↓		↓
		SEQ-IBLI			
		23AΦ417-Φ1	SWN	20	Cu >10x BLK cont.
		BLQΦ396-DUP1	↓	↓	Cu, Pb RPD↑
		↓ -MS1	↓	↓	
		↓ -MSD1	↓	↓	
		↓ -PS1	↓	↓	Cu in K7409
		SEQ-IBLJ			

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 85DN5032601

Analysis Date: 5/1/23 **Analyst:** MB **Sequence:** _____ **Cal:** _____

All corrections made by analyst unless otherwise noted. MB 5/1/23

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ-CCVI			
		↓ -CCBI			
		23DΦ262-Φ1	REN		Fe, Mn, Pb only
		BLOΦ717-DUP3	↓		↓
		↓ -MS3	↓		Mn STL ↓
		SEQ-IBLK			
		23AΦ419-Φ1	SWN	20	Cu>10x BLK conc. Mo Zn
		BLOΦ452-DUP1	↓	↓	Cr, Cu RPD↑ ↓
		↓ -MS1	↓	↓	Zn↑/Cu, Pb %R↑ ↓
		↓ -MSD1	↓	↓	↓ /As, Pb %R↑ /Cu RPD↑ ↓
		↓ -PS1	↓	↓	60 mL K7409 ↓
		SEQ-IBLL			
		↓ -CCVJ			
		↓ -CCBJ			
		23DΦ375-Φ2	REN		
		BLEΦΦ18-DUP1	↓		
		↓ -MS1	↓		
		SEQ-IBLM			
		23AΦ455-Φ1	SWN	20	Cu>10x BLK conc.
		BLOΦSΦ4-DUP1	↓	↓	Cr RPD↑
		↓ -MS1	↓	↓	
		↓ -MSD1	↓	↓	~~Ag %Rec~~ Ag RPD↑
		↓ -PS1	↓	↓	60 mL K7409 / Sc↑ - Not Needed
		SEQ-IBLN			

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 85DN5032601

Analysis Date: 5/1/23 **Analyst:** MB **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample iD	Prep Code	Dilution	Comments
		SEQ-CCVK			
		↓ -CCBK			
		23CΦ736-Φ4	REN		Mn only
		-Φ6	↓		↓
		-Φ8			
		-1Φ			Sc sl. noisy - %R + Analytes OK
		-12			
		↓ -Φ2			
		BLNΦ381-DUP1			
		↓ -MS1			Mn %R ↓ (73%)
		↓ -MSD1	↓		↓
		SEQ-IBL0			
		↓ -CCVL			PBT - Not Needed
		↓ -CCBL			
		Rinse/DI			
		MB 5/1/23			

Performance Check Report

Sample ID: STD Performance Check
Sample Date/Time: Monday, May 01, 2023 13:02:05
Sample Description:
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\STD Performance Check.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Default\STD Performance Check.079
MassCal File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Conditions File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Dual Detector Mode: Pulse
Acq. Dead Time (ns): 35
Current Dead Time (ns): 35
Torch Z position (mm): 0.00

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD	Mode
	Be	9.0	7795.9	7795.861	173.397	2.2	Standard
	In	114.9	81566.8	81566.756	959.485	1.2	Standard
	U	238.1	87583.6	87583.631	1928.908	2.2	Standard
⎡	CeO	155.9	2559.8	0.022	0.000	1.7	Standard
| >	Ce	139.9	114075.6	114075.618	1891.885	1.7	Standard
⎣	Ce++	70.0	1021.0	0.009	0.000	1.3	Standard
	Bkgd	220.0	0.9	0.933	0.608	65.1	Standard

Current Conditions File Data

Current Value	Description
0.92	Nebulizer Gas Flow STD/KED [NEB]
1.20	Auxiliary Gas Flow
17.50	Plasma Gas Flow
-10.75	Deflector Voltage
1600.00	ICP RF Power
-1600.00	Analog Stage Voltage
1000.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset STD [QRO]
-10.00	Cell Rod Offset STD [CRO]
14.00	Discriminator Threshold
-5.00	Cell Entrance/Exit Voltage STD
0.00	RPa
0.45	RPq
0.92	DRC Mode NEB
-7.50	DRC Mode QRO
-2.00	DRC Mode CRO
-5.00	DRC Mode Cell Entrance/Exit Voltage
0.60	Cell Gas A
0.00	Cell Gas B
200.00	Axial Field Voltage
-11.00	KED Mode CRO
-12.00	KED Mode QRO
-11.00	KED Mode Cell Entrance Voltage
-33.00	KED Mode Cell Exit Voltage
0.00	KED Cell Gas A
3.00	KED Cell Gas B
0.00	KED RPa
0.25	KED RPq
125.00	KED Mode Axial Field Voltage

Performance Check Report

Sample ID: STD Performance Check
Sample Date/Time: Monday, May 01, 2023 13:12:35
Sample Description:
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\STD Performance Check.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Default\STD Performance Check.086
MassCal File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Conditions File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Dual Detector Mode: Pulse
Acq. Dead Time (ns): 35
Current Dead Time (ns): 35
Torch Z position (mm): 0.00

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD	Mode
	Be	9.0	9584.9	9584.948	90.617	0.9	Standard
	In	114.9	106555.9	106555.943	932.423	0.9	Standard
	U	238.1	120593.6	120593.644	2060.674	1.7	Standard
⌈	CeO	155.9	3353.4	0.023	0.000	1.6	Standard
| >	Ce	139.9	143770.1	143770.113	1813.946	1.3	Standard
⌊	Ce++	70.0	1521.5	0.011	0.000	1.7	Standard
	Bkgd	220.0	1.0	1.033	0.217	21.0	Standard

Current Conditions File Data

Current Value	Description
0.92	Nebulizer Gas Flow STD/KED [NEB]
1.20	Auxiliary Gas Flow
17.50	Plasma Gas Flow
-10.75	Deflector Voltage
1600.00	ICP RF Power
-1600.00	Analog Stage Voltage
1000.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset STD [QRO]
-10.00	Cell Rod Offset STD [CRO]
14.00	Discriminator Threshold
-5.00	Cell Entrance/Exit Voltage STD
0.00	RPa
0.45	RPq
0.92	DRC Mode NEB
-7.50	DRC Mode QRO
-2.00	DRC Mode CRO
-5.00	DRC Mode Cell Entrance/Exit Voltage
0.60	Cell Gas A
0.00	Cell Gas B
200.00	Axial Field Voltage
-11.00	KED Mode CRO
-12.00	KED Mode QRO
-11.00	KED Mode Cell Entrance Voltage
-33.00	KED Mode Cell Exit Voltage
0.00	KED Cell Gas A
3.00	KED Cell Gas B
0.00	KED RPa
0.25	KED RPq
125.00	KED Mode Axial Field Voltage

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDailyUCT.swz

Start Time: 5/1/2023 1:01:17 PM
End Time: 5/1/2023 1:14:39 PM

STD Performance Check - [Passed] Optimum value(s): N/A
Obtained Intensity (Be 9): 7795.86
Obtained Intensity (In 115): 81566.76
Obtained Intensity (U 238): 87583.63
Obtained Intensity (Bkgd 220): 0.93
Obtained Formula (Ce++ 70 / Ce 140): 0.009 (=1021.04 / 114075.62)
Obtained Formula (CeO 156 / Ce 140): 0.022 (=2559.76 / 114075.62)
Obtained RSD (Be 9): 0.0222
Obtained RSD (In 115): 0.0118
Obtained RSD (U 238): 0.0220

Torch Alignment - [Passed]

Vertical	Horizontal	Intensity
0.77 mm	1.01 mm	111755.42

Nebulizer Gas Flow STD/KED [NEB] - [Passed] Optimum value(s): 0.92
Obtained Intensity (In 115): 114617.97
Obtained Formula (CeO 156 / Ce 140): 0.0225 (=3297.38 / 146433.67)

Mass Calibration and Resolution - [Passed] Optimum value(s): N/A
Target/Obtained mass (7.016/7.025), Target/Obtained resolution (0.7/0.707)
Target/Obtained mass (23.985/23.975), Target/Obtained resolution (0.7/0.693)
Target/Obtained mass (114.904/114.925), Target/Obtained resolution (0.7/0.699)
Target/Obtained mass (238.05/238.025), Target/Obtained resolution (0.7/0.700)

QID STD/DRC - Optimum value(s): Correlation Coefficient = 0.993; Intercept = -14.96

KED Mode QID - Optimum value(s): Correlation Coefficient = 0.997; Intercept = -14.31

STD Performance Check - [Passed] Optimum value(s): N/A
Obtained Intensity (Be 9): 9584.95
Obtained Intensity (In 115): 106555.94
Obtained Intensity (U 238): 120593.64
Obtained Intensity (Bkgd 220): 1.03
Obtained Formula (Ce++ 70 / Ce 140): 0.011 (=1521.55 / 143770.11)
Obtained Formula (CeO 156 / Ce 140): 0.023 (=3353.39 / 143770.11)
Obtained RSD (Be 9): 0.0095
Obtained RSD (In 115): 0.0088
Obtained RSD (U 238): 0.0171

SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDailyUCT.swz

Optimization Status

Start Time: 5/1/2023 1:01:17 PM

STD Performance Check
	Optimization Settings:
		Method: STD Performance Check.mth.
		Intensity Criterion: Be 9 > 2000
		Intensity Criterion: In 115 > 40000
		Intensity Criterion: U 238 > 30000
		Intensity Criterion: Bkgd 220 <= 5
		Formula Criterion: Ce++ 70 / Ce 140 <= 0.03
		Formula Criterion: CeO 156 / Ce 140 <= 0.025
		RSD Criterion: Be 9.0122 < 0.05
		RSD Criterion: In 114.904 < 0.05
		RSD Criterion: U 238.05 < 0.05

	Optimization Results:
	Initial Try
		Obtained Intensity (Be 9): 7795.86
		Obtained Intensity (In 115): 81566.76
		Obtained Intensity (U 238): 87583.63
		Obtained Intensity (Bkgd 220): 0.93
		Obtained Formula (Ce++ 70 / Ce 140): 0.009 (=1021.04 / 114075.62)
		Obtained Formula (CeO 156 / Ce 140): 0.022 (=2559.76 / 114075.62)
		Obtained RSD (Be 9): 0.0222
		Obtained RSD (In 115): 0.0118
		Obtained RSD (U 238): 0.0220

[Passed] Optimum value(s): N/A

Torch Alignment
	Optimization Settings:
		Method: Torch Alignment.mth.
		Intensity Criterion: In 115 Maximum

	Optimization Results:
		Vertical	Horizontal	Intensity
[Passed]	0.77 mm	1.01 mm	111755.42

Nebulizer Gas Flow STD/KED [NEB]
	Optimization Settings:
		Method: Optimize.mth.
			Initial Try - Start/End/Step: 0.89/0.96/0.01.
		Intensity Criterion: In 115 Maximum
		Formula Criterion: CeO 156 / Ce 140 <= 0.025

	Optimization Results:
	Initial Try

		Obtained Intensity (In 115): 114617.97
		Obtained Formula (CeO 156 / Ce 140): 0.0225 (=3297.38 / 146433.67)
[Passed] Optimum value(s): 0.92

Mass Calibration and Resolution
	Optimization Settings:
		Method: Tuning.mth.
		MassCal File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
		Iterations: 6
		Target accuracy (+/- amu): 0.05 for Mass Cal. and 0.03 for Resolution
		Peak height (%) for Res. Opt.: 10

	Optimization Results:
	Initial Try
		Target/Obtained mass (7.016/7.025), Target/Obtained resolution (0.7/0.721)
		Target/Obtained mass (23.985/23.975), Target/Obtained resolution (0.7/0.716)
		Target/Obtained mass (114.904/114.875), Target/Obtained resolution (0.7/0.708)
		Target/Obtained mass (238.05/237.975), Target/Obtained resolution (0.7/0.686) - <Target not achieved>
		[Failed]
	Retry 1
		Target/Obtained mass (7.016/7.025), Target/Obtained resolution (0.7/0.707)
		Target/Obtained mass (23.985/23.975), Target/Obtained resolution (0.7/0.693)
		Target/Obtained mass (114.904/114.925), Target/Obtained resolution (0.7/0.699)
		Target/Obtained mass (238.05/238.025), Target/Obtained resolution (0.7/0.700)
[Passed] Optimum value(s): N/A

QID STD/DRC
	Optimization Settings:
		Method: QID Calibration.mth.
			Initial Try - Start/End/Step: -20/0/0.5.

	Optimization Results:
	Initial Try

  Optimum value(s): Correlation Coefficient = 0.993; Intercept = -14.96

Analyte	Mass	Points	DAC	MaxIntensity
Li	7	41	-15	50794.1
Mg	24	41	-15	60094.1
In	115	41	-11.5	110647
Ce	140	41	-11.5	151293
Pb	208	41	-11.5	72873.4
U	238	41	-11.5	124641

KED Mode QID
	Optimization Settings:
		Method: QID Calibration.mth.
			Initial Try - Start/End/Step: -20/0/0.5.

	Optimization Results:
	Initial Try

  Optimum value(s): Correlation Coefficient = 0.997; Intercept = -14.31

Analyte	Mass	Points	DAC	MaxIntensity
Li	7	41	-14.5	32104
Mg	24	41	-14.5	68861.6
In	115	41	-12	153609
Ce	140	41	-11	147780
Pb	208	41	-10.5	68114
U	238	41	-10.5	141307

STD Performance Check
	Optimization Settings:
		Method: STD Performance Check.mth.
		Intensity Criterion: Be 9 > 2000
		Intensity Criterion: In 115 > 40000
		Intensity Criterion: U 238 > 30000
		Intensity Criterion: Bkgd 220 <= 5
		Formula Criterion: Ce++ 70 / Ce 140 <= 0.03
		Formula Criterion: CeO 156 / Ce 140 <= 0.025
		RSD Criterion: Be 9.0122 < 0.05
		RSD Criterion: In 114.904 < 0.05
		RSD Criterion: U 238.05 < 0.05

	Optimization Results:
	Initial Try
		Obtained Intensity (Be 9): 9584.95
		Obtained Intensity (In 115): 106555.94
		Obtained Intensity (U 238): 120593.64
		Obtained Intensity (Bkgd 220): 1.03
		Obtained Formula (Ce++ 70 / Ce 140): 0.011 (=1521.55 / 143770.11)
		Obtained Formula (CeO 156 / Ce 140): 0.023 (=3353.39 / 143770.11)
		Obtained RSD (Be 9): 0.0095
		Obtained RSD (In 115): 0.0088
		Obtained RSD (U 238): 0.0171

[Passed] Optimum value(s): N/A

End Time: 5/1/2023 1:14:39 PM

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDual.swz

Start Time: 5/1/2023 1:18:08 PM
End Time: 5/1/2023 1:31:37 PM

Detector Voltages - [Passed]
	Pulse Stage Voltage - [Passed] Optimum value(s): 1000
	Analog Stage Voltage - [Passed] Optimum value(s): -1600
	Pulse Stage Voltage (Fine-tune) - [Passed] Optimum value(s): 1000

Dual Detector Calibration
	Points Collected: 401
	Calibration unsuccessful for some masses due to insufficient pulse/analog crossover points

SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDual.swz

Optimization Status

Start Time: 5/1/2023 1:18:08 PM

Detector Voltages
	Pulse Stage Voltage Optimization Settings:
		Method: Pulse Stage Optimization.mth.
			Initial Try - Start/End/Step: 800/1300/50.
			Retry 1 - Start/End/Step: 800/1800/50.
		Optimization Criterion (Pulse 76): 0.1

	Analog Stage Voltage Optimization Settings:
		Method: Analog Stage Optimization.mth.
		Initial Try - Start/End: -1300/-1900.
		Retry 1 - Start/End: -1300/-2400.
		Optimization Criterion (Analog 80): Target Gain 10000

	Pulse Stage Voltage Results:
	Initial Try

		Intensity Obtained For Criterion (Pulse 76): 67772.38
[Passed] Optimum value(s): 1000
	Analog Stage Voltage Results:
	Initial Try
		Interim Gain Values: 10892.7 (-1600V)
		Analyte: Analog 80
		ACEM(volts): -1600
		Achieved Gain: 10892.7
		Achieved NMax: 1.14936e+009
		Conversion Factor: 0.111366
		Passes: 1
		Points Collected: 31
		Points Used: 3
		Coefficient: 0.999999
[Passed] Optimum value(s): -1600
	Pulse Stage Voltage (Fine-tune) Results:
	Initial Try

		Intensity Obtained For Criterion (Pulse 76): 68657.59
[Passed] Optimum value(s): 1000

Dual Detector Calibration
	Optimization Settings:
		Method: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\DualDetectorNew.mth.
			Initial Try - Start/End/Step: -20/0/0.05.

	Optimization Results:
	Initial Try
	Points Collected: 401
	Calibration unsuccessful for some masses due to insufficient pulse/analog crossover points

End Time: 5/1/2023 1:31:37 PM

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDual.swz

Start Time: 5/1/2023 1:32:04 PM
End Time: 5/1/2023 1:39:33 PM

Dual Detector Calibration
Points Collected: 401
Calibration unsuccessful for some masses due to insufficient pulse/analog crossover points

SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDual.swz

Optimization Status

Start Time: 5/1/2023 1:32:04 PM

Dual Detector Calibration
Optimization Settings:
Method: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\DualDetectorNew.mth.
Initial Try - Start/End/Step: -20/0/0.05.

Optimization Results:
Initial Try
Points Collected: 401
Calibration unsuccessful for some masses due to insufficient pulse/analog crossover points

End Time: 5/1/2023 1:39:33 PM

Performance Check Report

Sample ID: STD Performance Check
Sample Date/Time: Monday, May 01, 2023 13:50:19
Sample Description:
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\STD Performance Check.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Default\STD Performance Check.094
MassCal File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Conditions File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Dual Detector Mode: Pulse
Acq. Dead Time (ns): 35
Current Dead Time (ns): 35
Torch Z position (mm): 0.00

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD	Mode
	Be	9.0	9499.6	9499.558	180.707	1.9	Standard
	In	114.9	110213.3	110213.319	548.496	0.5	Standard
	U	238.1	125298.7	125298.667	1231.967	1.0	Standard
⌈	CeO	155.9	3418.2	0.024	0.001	3.0	Standard
| >	Ce	139.9	145023.3	145023.302	1229.787	0.8	Standard
⌊	Ce++	70.0	1569.0	0.011	0.000	3.2	Standard
	Bkgd	220.0	1.5	1.500	0.993	66.2	Standard

Current Conditions File Data

Current Value	Description
0.92	Nebulizer Gas Flow STD/KED [NEB]
1.20	Auxiliary Gas Flow
17.50	Plasma Gas Flow
-10.75	Deflector Voltage
1600.00	ICP RF Power
-1600.00	Analog Stage Voltage
1000.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset STD [QRO]
-10.00	Cell Rod Offset STD [CRO]
14.00	Discriminator Threshold
-5.00	Cell Entrance/Exit Voltage STD
0.00	RPa
0.45	RPq
0.92	DRC Mode NEB
-7.50	DRC Mode QRO
-2.00	DRC Mode CRO
-5.00	DRC Mode Cell Entrance/Exit Voltage
0.60	Cell Gas A
0.00	Cell Gas B
200.00	Axial Field Voltage
-11.00	KED Mode CRO
-12.00	KED Mode QRO
-11.00	KED Mode Cell Entrance Voltage
-33.00	KED Mode Cell Exit Voltage
0.00	KED Cell Gas A
3.00	KED Cell Gas B
0.00	KED RPa
0.25	KED RPq
125.00	KED Mode Axial Field Voltage

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDual.swz

Start Time: 5/1/2023 1:50:18 PM
End Time: 5/1/2023 1:52:23 PM

STD Performance Check - [Passed] Optimum value(s): N/A
Obtained Intensity (Be 9): 9499.56
Obtained Intensity (In 115): 110213.32
Obtained Intensity (U 238): 125298.67
Obtained Intensity (Bkgd 220): 1.50
Obtained Formula (Ce++ 70 / Ce 140): 0.011 (=1569.02 / 145023.30)
Obtained Formula (CeO 156 / Ce 140): 0.024 (=3418.21 / 145023.30)
Obtained RSD (Be 9): 0.0190
Obtained RSD (In 115): 0.0050
Obtained RSD (U 238): 0.0098

SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDual.swz

Optimization Status

Start Time: 5/1/2023 1:50:18 PM

STD Performance Check

Optimization Settings:

Method: STD Performance Check.mth.
Intensity Criterion: Be 9 > 2000
Intensity Criterion: In 115 > 40000
Intensity Criterion: U 238 > 30000
Intensity Criterion: Bkgd 220 <= 10
Formula Criterion: Ce++ 70 / Ce 140 <= 0.03
Formula Criterion: CeO 156 / Ce 140 <= 0.025
RSD Criterion: Be 9.0122 < 0.05
RSD Criterion: In 114.904 < 0.05
RSD Criterion: U 238.05 < 0.05

Optimization Results:

Initial Try

Obtained Intensity (Be 9): 9499.56
Obtained Intensity (In 115): 110213.32
Obtained Intensity (U 238): 125298.67
Obtained Intensity (Bkgd 220): 1.50
Obtained Formula (Ce++ 70 / Ce 140): 0.011 (=1569.02 / 145023.30)
Obtained Formula (CeO 156 / Ce 140): 0.024 (=3418.21 / 145023.30)
Obtained RSD (Be 9): 0.0190
Obtained RSD (In 115): 0.0050
Obtained RSD (U 238): 0.0098

[Passed] Optimum value(s): N/A

End Time: 5/1/2023 1:52:23 PM

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 01, 2023 14:29:47

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L				982998	1	Standard
	Be	**9**		ug/L				1	86	Standard
	C	**13**		ug/L				45123	0	Standard
>	**Sc**	**45**		ug/L				841869	1	Standard
	V	**51**		ug/L				7647	1	Standard
	V-1	**51**		ug/L				414	3	Standard
	Cr	**52**		ug/L				22572	0	Standard
	Cr	**53**		ug/L				237	5	Standard
	Fe	**54**		ug/L				90566	0	Standard
	Fe	**57**		ug/L				21936	2	Standard
	Mn	**55**		ug/L				948	3	Standard
>	**Ge**	**72**		ug/L				47034	6	KED
	Ni	**60**		ug/L				81	6	KED
	Ni	**62**		ug/L				17	22	KED
	Cu	**63**		ug/L				158	9	KED
	Cu	**65**		ug/L				86	11	KED
	Zn	**66**		ug/L				119	9	KED
	Zn	**67**		ug/L				26	35	KED
	As	**75**		ug/L				5	25	KED
	Y	**89**		ug/L				433311	4	Standard
	Kr	**83**		ug/L				71	8	Standard
>	**In-1**	**115**		ug/L				11971	1	KED
	Cd	**111**		ug/L				3	17	KED
	Cd	**114**		ug/L				4	67	KED
>	**In**	**115**		ug/L				681993	1	Standard
	Ag	**107**		ug/L				191	10	Standard
>	**Tb**	**159**		ug/L				1558961	1	Standard
	Tl	**205**		ug/L				645	4	Standard
	Pb	**208**		ug/L				898	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL2
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Monday, May 01, 2023 14:34:32
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			982998	991188	2	Standard
⌊	**Be**	**9**	**0.200**	ug/L	0.002	0	1	1562	2	Standard
	C	**13**		ug/L			45123	47781	0	Standard
⌈>	**Sc**	**45**		ug/L			841869	868664	1	Standard
⌈	**V**	**51**	**0.200**	ug/L	0.013	6	7647	14191	1	Standard
⌊	**V-1**	**51**	**0.200**	ug/L	0.005	2	414	7137	1	Standard
⌈	**Cr**	**52**	**0.500**	ug/L	0.029	5	22572	36731	0	Standard
⌊	**Cr**	**53**	**0.500**	ug/L	0.001	0	237	1895	2	Standard
⌈	**Fe**	**54**	**36.000**	ug/L	0.557	1	90566	197001	1	Standard
⌊	**Fe**	**57**	**36.000**	ug/L	0.429	1	21936	63285	1	Standard
⌊	**Mn**	**55**	**0.500**	ug/L	0.004	0	948	22531	2	Standard
⌈>	**Ge**	**72**		ug/L			47034	48547	0	KED
⌈	**Ni**	**60**	**0.500**	ug/L	0.017	3	81	873	2	KED
⌊	**Ni**	**62**	**0.500**	ug/L	0.061	12	17	154	10	KED
⌈	**Cu**	**63**	**0.500**	ug/L	0.007	1	158	5998	1	KED
⌊	**Cu**	**65**	**0.500**	ug/L	0.018	3	86	3140	2	KED
⌈	**Zn**	**66**	**6.000**	ug/L	0.142	2	119	4147	2	KED
⌊	**Zn**	**67**	**6.000**	ug/L	0.501	8	26	648	8	KED
⌊	**As**	**75**	**0.200**	ug/L	0.018	8	5	79	7	KED
	Y	**89**		ug/L			433311	437462	1	Standard
	Kr	**83**		ug/L			71	71	7	Standard
⌈>	**In-1**	**115**		ug/L			11971	10980	2	KED
⌈	**Cd**	**111**	**0.100**	ug/L	0.017	16	3	45	17	KED
⌊	**Cd**	**114**	**0.100**	ug/L	0.010	10	4	98	10	KED
⌈>	**In**	**115**		ug/L			681993	695592	1	Standard
⌊	**Ag**	**107**	**0.200**	ug/L	0.009	4	191	4857	2	Standard
⌈>	**Tb**	**159**		ug/L			1558961	1580101	1	Standard
⌈	**Tl**	**205**	**0.200**	ug/L	0.002	1	645	15809	0	Standard
⌊	**Pb**	**208**	**0.100**	ug/L	0.001	0	898	10964	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL3
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 01, 2023 14:39:16

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			982998	996701	3	Standard
⌊	**Be**	**9**	**10.000**	ug/L	0.545	5	1	76857	2	Standard
	C	**13**		ug/L			45123	61143	1	Standard
⌈>	**Sc**	**45**		ug/L			841869	876730	1	Standard
⌈	**V**	**51**	**10.000**	ug/L	0.331	3	7647	352771	1	Standard
⌊	**V-1**	**51**	**10.000**	ug/L	0.332	3	414	348064	2	Standard
⌈	**Cr**	**52**	**10.002**	ug/L	0.193	1	22572	315892	1	Standard
⌊	**Cr**	**53**	**10.000**	ug/L	0.117	1	237	34190	0	Standard
⌈	**Fe**	**54**	**999.996**	ug/L	11.410	1	90566	2989647	0	Standard
⌊	**Fe**	**57**	**1000.027**	ug/L	8.595	0	21936	1186541	1	Standard
⌊	**Mn**	**55**	**10.001**	ug/L	0.041	0	948	449202	1	Standard
⌈>	**Ge**	**72**		ug/L			47034	49060	1	KED
⌈	**Ni**	**60**	**10.003**	ug/L	0.077	0	81	18575	1	KED
⌊	**Ni**	**62**	**10.002**	ug/L	0.506	5	17	2960	3	KED
⌈	**Cu**	**63**	**9.970**	ug/L	0.228	2	158	54029	1	KED
⌊	**Cu**	**65**	**9.968**	ug/L	0.111	1	86	26981	1	KED
⌈	**Zn**	**66**	**10.108**	ug/L	0.285	2	119	7185	2	KED
⌊	**Zn**	**67**	**10.184**	ug/L	0.514	5	26	1150	3	KED
⌊	**As**	**75**	**10.000**	ug/L	0.089	0	5	3592	0	KED
	Y	**89**		ug/L			433311	448405	1	Standard
	Kr	**83**		ug/L			71	82	11	Standard
⌈>	**In-1**	**115**		ug/L			11971	11383	2	KED
⌈	**Cd**	**111**	**10.000**	ug/L	0.282	2	3	3763	1	KED
⌊	**Cd**	**114**	**10.000**	ug/L	0.223	2	4	9664	2	KED
⌈>	**In**	**115**		ug/L			681993	716546	0	Standard
⌊	**Ag**	**107**	**10.000**	ug/L	0.256	2	191	240052	2	Standard
⌈>	**Tb**	**159**		ug/L			1558961	1601181	1	Standard
⌈	**Tl**	**205**	**10.000**	ug/L	0.125	1	645	784082	2	Standard
⌊	**Pb**	**208**	**10.000**	ug/L	0.095	0	898	1026001	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL4
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 01, 2023 14:44:14

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			982998	1001374	3	Standard
⌊	**Be**	**9**	**19.836**	ug/L	0.326	1	1	148439	1	Standard
	C	**13**		ug/L			45123	60594	0	Standard
⌈>	**Sc**	**45**		ug/L			841869	873091	0	Standard
⌈	**V**	**51**	**19.930**	ug/L	0.245	1	7647	683129	1	Standard
⌊	**V-1**	**51**	**19.900**	ug/L	0.221	1	414	675976	1	Standard
⌈	**Cr**	**52**	**19.980**	ug/L	0.428	2	22572	602908	2	Standard
⌊	**Cr**	**53**	**19.878**	ug/L	0.291	1	237	65841	1	Standard
⌈	**Fe**	**54**	**1993.236**	ug/L	28.236	1	90566	5764878	1	Standard
⌊	**Fe**	**57**	**1998.853**	ug/L	10.707	0	21936	2333786	1	Standard
⌊	**Mn**	**55**	**19.904**	ug/L	0.299	1	948	872670	1	Standard
⌈>	**Ge**	**72**		ug/L			47034	49134	0	KED
⌈	**Ni**	**60**	**19.807**	ug/L	0.134	0	81	35391	1	KED
⌊	**Ni**	**62**	**19.959**	ug/L	0.133	0	17	5854	1	KED
⌈	**Cu**	**63**	**19.823**	ug/L	0.146	0	158	103771	1	KED
⌊	**Cu**	**65**	**19.925**	ug/L	0.360	1	86	53122	1	KED
⌈	**Zn**	**66**	**19.881**	ug/L	0.537	2	119	13796	3	KED
⌊	**Zn**	**67**	**20.086**	ug/L	0.909	4	26	2275	5	KED
⌊	**As**	**75**	**19.868**	ug/L	0.120	0	5	6960	1	KED
	Y	**89**		ug/L			433311	451418	1	Standard
	Kr	**83**		ug/L			71	76	11	Standard
⌈>	**In-1**	**115**		ug/L			11971	11437	0	KED
⌈	**Cd**	**111**	**19.916**	ug/L	0.397	1	3	7405	1	KED
⌊	**Cd**	**114**	**19.841**	ug/L	0.228	1	4	18671	1	KED
⌈>	**In**	**115**		ug/L			681993	694259	3	Standard
⌊	**Ag**	**107**	**19.934**	ug/L	0.643	3	191	457125	1	Standard
⌈>	**Tb**	**159**		ug/L			1558961	1608023	0	Standard
⌈	**Tl**	**205**	**19.910**	ug/L	0.221	1	645	1539440	1	Standard
⌊	**Pb**	**208**	**19.860**	ug/L	0.155	0	898	1989968	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL5
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Monday, May 01, 2023 14:49:22
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			982998	986813	2	Standard
⌊	**Be**	**9**	**50.088**	ug/L	1.152	2	1	372641	0	Standard
	C	**13**		ug/L			45123	43988	1	Standard
⌈>	**Sc**	**45**		ug/L			841869	861629	0	Standard
⌈	**V**	**51**	**50.114**	ug/L	0.338	0	7647	1702442	0	Standard
⌊	**V-1**	**51**	**50.145**	ug/L	0.506	1	414	1704989	1	Standard
⌈	**Cr**	**52**	**49.943**	ug/L	0.473	0	22572	1444364	0	Standard
⌊	**Cr**	**53**	**50.048**	ug/L	0.793	1	237	164027	1	Standard
⌈	**Fe**	**54**	**4996.901**	ug/L	64.360	1	90566	14080027	1	Standard
⌊	**Fe**	**57**	**4992.886**	ug/L	67.804	1	21936	5679094	1	Standard
⌊	**Mn**	**55**	**49.990**	ug/L	1.217	2	948	2159441	2	Standard
⌈>	**Ge**	**72**		ug/L			47034	47606	2	KED
⌈	**Ni**	**60**	**50.036**	ug/L	0.857	1	81	86788	1	KED
⌊	**Ni**	**62**	**50.018**	ug/L	1.680	3	17	14207	1	KED
⌈	**Cu**	**63**	**49.925**	ug/L	1.656	3	158	250935	0	KED
⌊	**Cu**	**65**	**49.959**	ug/L	0.717	1	86	128373	1	KED
⌈	**Zn**	**66**	**49.992**	ug/L	1.178	2	119	33388	0	KED
⌊	**Zn**	**67**	**50.067**	ug/L	0.732	1	26	5487	2	KED
⌊	**As**	**75**	**50.095**	ug/L	1.324	2	5	17150	0	KED
	Y	**89**		ug/L			433311	437275	4	Standard
	Kr	**83**		ug/L			71	71	11	Standard
⌈>	**In-1**	**115**		ug/L			11971	11080	4	KED
⌈	**Cd**	**111**	**49.952**	ug/L	3.097	6	3	17870	1	KED
⌊	**Cd**	**114**	**49.964**	ug/L	3.672	7	4	45282	3	KED
⌈>	**In**	**115**		ug/L			681993	676574	1	Standard
⌊	**Ag**	**107**	**49.808**	ug/L	1.084	2	191	1092536	1	Standard
⌈>	**Tb**	**159**		ug/L			1558961	1579685	1	Standard
⌈	**Tl**	**205**	**50.075**	ug/L	0.854	1	645	3830501	0	Standard
⌊	**Pb**	**208**	**50.037**	ug/L	0.983	1	898	4941254	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL6
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 01, 2023 14:56:10

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			982998	950929	1	Standard
	Be	**9**	**99.541**	ug/L	1.797	1	1	702986	0	Standard
	C	**13**		ug/L			45123	55031	0	Standard
>	**Sc**	**45**		ug/L			841869	856398	0	Standard
	V	**51**	**99.626**	ug/L	0.903	0	7647	3314968	1	Standard
	V-1	**51**	**99.645**	ug/L	0.823	0	414	3327640	0	Standard
	Cr	**52**	**99.485**	ug/L	0.153	0	22572	2789547	0	Standard
	Cr	**53**	**99.552**	ug/L	1.108	1	237	319271	0	Standard
	Fe	**54**	**9889.492**	ug/L	51.800	0	90566	26629032	0	Standard
	Fe	**57**	**9947.623**	ug/L	97.692	0	21936	11031877	1	Standard
	Mn	**55**	**99.590**	ug/L	1.371	1	948	4217019	1	Standard
>	**Ge**	**72**		ug/L			47034	45458	10	KED
	Ni	**60**	**100.844**	ug/L	9.263	9	81	170734	2	KED
	Ni	**62**	**100.644**	ug/L	9.424	9	17	27713	2	KED
	Cu	**63**	**100.552**	ug/L	9.653	9	158	488513	1	KED
	Cu	**65**	**100.353**	ug/L	10.545	10	86	247330	0	KED
	Zn	**66**	**100.464**	ug/L	9.442	9	119	64552	1	KED
	Zn	**67**	**100.457**	ug/L	6.397	6	26	10601	4	KED
	As	**75**	**101.061**	ug/L	10.220	10	5	34019	1	KED
	Y	**89**		ug/L			433311	429531	2	Standard
	Kr	**83**		ug/L			71	79	10	Standard
>	**In-1**	**115**		ug/L			11971	11377	0	KED
	Cd	**111**	**99.239**	ug/L	0.429	0	3	35616	0	KED
	Cd	**114**	**99.351**	ug/L	0.765	0	4	90697	1	KED
>	**In**	**115**		ug/L			681993	654088	3	Standard
	Ag	**107**	**99.928**	ug/L	2.641	2	191	2112750	0	Standard
>	**Tb**	**159**		ug/L			1558961	1553742	2	Standard
	Tl	**205**	**99.438**	ug/L	1.808	1	645	7342812	1	Standard
	Pb	**208**	**99.466**	ug/L	0.850	0	898	9491992	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 01, 2023 15:03:39

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			982998	978886	0	Standard
⌊	**Be**	**9**	**0.000**	ug/L	0.000	173	1	2	86	Standard
	C	**13**		ug/L			45123	42848	1	Standard
⌈>	**Sc**	**45**		ug/L			841869	851128	0	Standard
⌈	**V**	**51**	**0.001**	ug/L	0.006	466	7647	7774	2	Standard
⌊	**V-1**	**51**	**-0.002**	ug/L	0.000	2	414	363	0	Standard
⌈	**Cr**	**52**	**0.001**	ug/L	0.022	1640	22572	22855	2	Standard
⌊	**Cr**	**53**	**-0.009**	ug/L	0.004	42	237	212	5	Standard
⌈	**Fe**	**54**	**0.906**	ug/L	1.339	147	90566	93960	3	Standard
⌊	**Fe**	**57**	**-0.526**	ug/L	0.205	39	21936	21598	0	Standard
⌊	**Mn**	**55**	**-0.003**	ug/L	0.000	11	948	832	0	Standard
⌈>	**Ge**	**72**		ug/L			47034	50069	1	KED
⌈	**Ni**	**60**	**0.018**	ug/L	0.013	68	81	120	18	KED
⌊	**Ni**	**62**	**-0.002**	ug/L	0.009	611	17	17	16	KED
⌈	**Cu**	**63**	**-0.002**	ug/L	0.002	127	158	158	8	KED
⌊	**Cu**	**65**	**-0.005**	ug/L	0.008	164	86	80	24	KED
⌈	**Zn**	**66**	**-0.041**	ug/L	0.024	59	119	97	17	KED
⌊	**Zn**	**67**	**-0.085**	ug/L	0.054	62	26	18	33	KED
⌊	**As**	**75**	**0.002**	ug/L	0.004	270	5	6	26	KED
	Y	**89**		ug/L			433311	438427	2	Standard
	Kr	**83**		ug/L			71	70	7	Standard
⌈>	**In-1**	**115**		ug/L			11971	11979	0	KED
⌈	**Cd**	**111**	**0.005**	ug/L	0.005	105	3	5	39	KED
⌊	**Cd**	**114**	**0.003**	ug/L	0.001	43	4	6	16	KED
⌈>	**In**	**115**		ug/L			681993	669734	1	Standard
⌊	**Ag**	**107**	**0.005**	ug/L	0.001	12	191	293	6	Standard
⌈>	**Tb**	**159**		ug/L			1558961	1528630	0	Standard
⌈	**Tl**	**205**	**0.006**	ug/L	0.001	8	645	1102	3	Standard
⌊	**Pb**	**208**	**-0.002**	ug/L	0.001	29	898	699	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 01, 2023 15:09:47
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L				984787	1	Standard
⌊	**Be**	**9**		ug/L				3	124	Standard
	C	**13**		ug/L				42921	0	Standard
⌈>	**Sc**	**45**		ug/L				850595	1	Standard
⎢	**V**	**51**		ug/L				7786	1	Standard
⎢	**V-1**	**51**		ug/L				362	5	Standard
⎢	**Cr**	**52**		ug/L				22890	1	Standard
⎢	**Cr**	**53**		ug/L				212	9	Standard
⎢	**Fe**	**54**		ug/L				90788	0	Standard
⎢	**Fe**	**57**		ug/L				21922	2	Standard
⌊	**Mn**	**55**		ug/L				774	1	Standard
⌈>	**Ge**	**72**		ug/L				48940	1	KED
⎢	**Ni**	**60**		ug/L				80	20	KED
⎢	**Ni**	**62**		ug/L				16	17	KED
⎢	**Cu**	**63**		ug/L				137	10	KED
⎢	**Cu**	**65**		ug/L				67	29	KED
⎢	**Zn**	**66**		ug/L				85	13	KED
⎢	**Zn**	**67**		ug/L				17	11	KED
⌊	**As**	**75**		ug/L				5	23	KED
	Y	**89**		ug/L				438010	1	Standard
	Kr	**83**		ug/L				58	15	Standard
⌈>	**In-1**	**115**		ug/L				11681	0	KED
⎢	**Cd**	**111**		ug/L				5	66	KED
⌊	**Cd**	**114**		ug/L				6	62	KED
⌈>	**In**	**115**		ug/L				671207	2	Standard
⌊	**Ag**	**107**		ug/L				227	6	Standard
⌈>	**Tb**	**159**		ug/L				1536215	0	Standard
⎢	**Tl**	**205**		ug/L				715	6	Standard
⌊	**Pb**	**208**		ug/L				628	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL2
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 01, 2023 15:14:31
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			984787	951819	1	Standard
	Be	**9**	**0.200**	ug/L	0.008	4	3	1516	2	Standard
	C	**13**		ug/L			42921	46860	1	Standard
>	**Sc**	**45**		ug/L			850595	849364	1	Standard
	V	**51**	**0.200**	ug/L	0.009	4	7786	14164	3	Standard
	V-1	**51**	**0.200**	ug/L	0.004	1	362	6964	1	Standard
	Cr	**52**	**0.500**	ug/L	0.023	4	22890	36561	3	Standard
	Cr	**53**	**0.500**	ug/L	0.028	5	212	1829	4	Standard
	Fe	**54**	**36.000**	ug/L	0.552	1	90788	197214	1	Standard
	Fe	**57**	**36.000**	ug/L	1.165	3	21922	62303	1	Standard
	Mn	**55**	**0.500**	ug/L	0.008	1	774	22453	2	Standard
>	**Ge**	**72**		ug/L			48940	46094	7	KED
	Ni	**60**	**0.500**	ug/L	0.032	6	80	890	10	KED
	Ni	**62**	**0.500**	ug/L	0.068	13	16	146	15	KED
	Cu	**63**	**0.500**	ug/L	0.011	2	137	5577	9	KED
	Cu	**65**	**0.500**	ug/L	0.017	3	67	2933	10	KED
	Zn	**66**	**6.000**	ug/L	0.122	2	85	4000	5	KED
	Zn	**67**	**6.000**	ug/L	0.225	3	17	628	8	KED
	As	**75**	**0.200**	ug/L	0.005	2	5	68	8	KED
	Y	**89**		ug/L			438010	437460	1	Standard
	Kr	**83**		ug/L			58	68	22	Standard
>	**In-1**	**115**		ug/L			11681	11528	0	KED
	Cd	**111**	**0.100**	ug/L	0.009	9	5	44	8	KED
	Cd	**114**	**0.100**	ug/L	0.010	10	6	91	9	KED
>	**In**	**115**		ug/L			671207	665121	2	Standard
	Ag	**107**	**0.200**	ug/L	0.004	2	227	4586	3	Standard
>	**Tb**	**159**		ug/L			1536215	1512647	1	Standard
	Tl	**205**	**0.200**	ug/L	0.003	1	715	15424	1	Standard
	Pb	**208**	**0.100**	ug/L	0.001	0	628	10479	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL3
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 01, 2023 15:19:15
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			984787	983478	2	Standard
⌊	**Be**	**9**	**10.000**	ug/L	0.053	0	3	75849	1	Standard
	C	**13**		ug/L			42921	60107	0	Standard
⌈>	**Sc**	**45**		ug/L			850595	869411	1	Standard
⎢	**V**	**51**	**10.000**	ug/L	0.149	1	7786	351205	0	Standard
⎢	**V-1**	**51**	**10.000**	ug/L	0.179	1	362	347058	0	Standard
⎢	**Cr**	**52**	**10.001**	ug/L	0.179	1	22890	314705	0	Standard
⎢	**Cr**	**53**	**10.001**	ug/L	0.275	2	212	34235	1	Standard
⎢	**Fe**	**54**	**999.951**	ug/L	23.783	2	90788	3011775	0	Standard
⎢	**Fe**	**57**	**1000.002**	ug/L	10.955	1	21922	1173500	0	Standard
⌊	**Mn**	**55**	**10.000**	ug/L	0.245	2	774	445725	0	Standard
⌈>	**Ge**	**72**		ug/L			48940	49159	0	KED
⎢	**Ni**	**60**	**10.001**	ug/L	0.101	1	80	17967	1	KED
⎢	**Ni**	**62**	**10.002**	ug/L	0.175	1	16	2981	2	KED
⎢	**Cu**	**63**	**9.969**	ug/L	0.166	1	137	52242	0	KED
⎢	**Cu**	**65**	**9.968**	ug/L	0.221	2	67	26861	2	KED
⎢	**Zn**	**66**	**9.997**	ug/L	0.311	3	85	7051	2	KED
⎢	**Zn**	**67**	**10.183**	ug/L	0.545	5	17	1184	4	KED
⌊	**As**	**75**	**10.000**	ug/L	0.136	1	5	3562	2	KED
	Y	**89**		ug/L			438010	432409	2	Standard
	Kr	**83**		ug/L			58	74	5	Standard
⌈>	**In-1**	**115**		ug/L			11681	11523	0	KED
⎢	**Cd**	**111**	**10.000**	ug/L	0.280	2	5	3784	2	KED
⌊	**Cd**	**114**	**10.000**	ug/L	0.257	2	6	9341	2	KED
⌈>	**In**	**115**		ug/L			671207	674809	1	Standard
⌊	**Ag**	**107**	**10.000**	ug/L	0.229	2	227	224748	1	Standard
⌈>	**Tb**	**159**		ug/L			1536215	1562151	0	Standard
⎢	**Tl**	**205**	**10.000**	ug/L	0.045	0	715	755077	0	Standard
⌊	**Pb**	**208**	**10.000**	ug/L	0.114	1	628	991598	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL4
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 01, 2023 15:24:13
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			984787	958196	2	Standard
⌊	**Be**	**9**	**20.060**	ug/L	0.453	2	3	150008	1	Standard
	C	**13**		ug/L			42921	57274	0	Standard
⌈>	**Sc**	**45**		ug/L			850595	864664	1	Standard
⎢	**V**	**51**	**19.988**	ug/L	0.214	1	7786	688660	1	Standard
⎢	**V-1**	**51**	**19.988**	ug/L	0.195	0	362	688003	1	Standard
⎢	**Cr**	**52**	**19.946**	ug/L	0.161	0	22890	595024	0	Standard
⎢	**Cr**	**53**	**19.948**	ug/L	0.297	1	212	67027	0	Standard
⎢	**Fe**	**54**	**1985.175**	ug/L	20.141	1	90788	5691282	1	Standard
⎢	**Fe**	**57**	**2006.387**	ug/L	37.344	1	21922	2349217	2	Standard
⌊	**Mn**	**55**	**19.929**	ug/L	0.139	0	774	870510	1	Standard
⌈>	**Ge**	**72**		ug/L			48940	49642	2	KED
⎢	**Ni**	**60**	**19.931**	ug/L	0.386	1	80	35579	0	KED
⎢	**Ni**	**62**	**20.007**	ug/L	0.082	0	16	6014	2	KED
⎢	**Cu**	**63**	**19.928**	ug/L	0.297	1	137	103814	0	KED
⎢	**Cu**	**65**	**19.931**	ug/L	0.317	1	67	53437	2	KED
⎢	**Zn**	**66**	**19.825**	ug/L	0.372	1	85	13684	1	KED
⎢	**Zn**	**67**	**20.065**	ug/L	0.188	0	17	2363	1	KED
⌊	**As**	**75**	**19.953**	ug/L	0.457	2	5	7101	0	KED
	Y	**89**		ug/L			438010	430951	1	Standard
	Kr	**83**		ug/L			58	66	12	Standard
⌈>	**In-1**	**115**		ug/L			11681	11413	0	KED
⎢	**Cd**	**111**	**19.835**	ug/L	0.157	0	5	7192	1	KED
⌊	**Cd**	**114**	**20.073**	ug/L	0.074	0	6	18843	0	KED
⌈>	**In**	**115**		ug/L			671207	673466	0	Standard
⌊	**Ag**	**107**	**19.939**	ug/L	0.168	0	227	441698	0	Standard
⌈>	**Tb**	**159**		ug/L			1536215	1574481	1	Standard
⎢	**Tl**	**205**	**19.939**	ug/L	0.406	2	715	1498308	1	Standard
⌊	**Pb**	**208**	**19.842**	ug/L	0.310	1	628	1921289	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL5
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 01, 2023 15:29:21
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			984787	974027	1	Standard
⌊	**Be**	**9**	**49.848**	ug/L	0.208	0	3	373340	1	Standard
	C	**13**		ug/L			42921	43959	0	Standard
⌈>	**Sc**	**45**		ug/L			850595	847672	1	Standard
⌈	**V**	**51**	**49.974**	ug/L	0.537	1	7786	1671904	0	Standard
⌊	**V-1**	**51**	**49.990**	ug/L	0.588	1	362	1684585	0	Standard
⌈	**Cr**	**52**	**49.902**	ug/L	0.872	1	22890	1411534	1	Standard
⌊	**Cr**	**53**	**49.958**	ug/L	0.809	1	212	163558	0	Standard
⌈	**Fe**	**54**	**4999.204**	ug/L	61.081	1	90788	13901319	0	Standard
⌊	**Fe**	**57**	**4989.421**	ug/L	34.888	0	21922	5634814	0	Standard
⌊	**Mn**	**55**	**50.073**	ug/L	1.536	3	774	2158434	2	Standard
⌈>	**Ge**	**72**		ug/L			48940	48638	1	KED
⌈	**Ni**	**60**	**50.050**	ug/L	0.730	1	80	87873	0	KED
⌊	**Ni**	**62**	**49.706**	ug/L	0.910	1	16	14199	1	KED
⌈	**Cu**	**63**	**49.742**	ug/L	0.637	1	137	247336	0	KED
⌊	**Cu**	**65**	**49.803**	ug/L	0.818	1	67	128189	1	KED
⌈	**Zn**	**66**	**49.937**	ug/L	0.620	1	85	33452	0	KED
⌊	**Zn**	**67**	**49.683**	ug/L	0.478	0	17	5545	1	KED
⌊	**As**	**75**	**49.949**	ug/L	0.423	0	5	17327	0	KED
	Y	**89**		ug/L			438010	432420	0	Standard
	Kr	**83**		ug/L			58	78	18	Standard
⌈>	**In-1**	**115**		ug/L			11681	11112	3	KED
⌈	**Cd**	**111**	**50.138**	ug/L	2.045	4	5	17924	1	KED
⌊	**Cd**	**114**	**50.083**	ug/L	1.986	3	6	46109	1	KED
⌈>	**In**	**115**		ug/L			671207	658946	1	Standard
⌊	**Ag**	**107**	**49.838**	ug/L	0.790	1	227	1062604	0	Standard
⌈>	**Tb**	**159**		ug/L			1536215	1555024	2	Standard
⌈	**Tl**	**205**	**50.097**	ug/L	0.934	1	715	3752961	1	Standard
⌊	**Pb**	**208**	**50.072**	ug/L	1.050	2	628	4821518	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL6
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 01, 2023 15:36:09
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			984787	940412	3	Standard
⌊	**Be**	**9**	**99.764**	ug/L	1.435	1	3	715831	3	Standard
	C	**13**		ug/L			42921	54129	0	Standard
⌈>	**Sc**	**45**		ug/L			850595	830631	1	Standard
⎢	**V**	**51**	**100.093**	ug/L	3.591	3	7786	3283250	2	Standard
⎢	**V-1**	**51**	**100.033**	ug/L	3.481	3	362	3305979	2	Standard
⎢	**Cr**	**52**	**100.143**	ug/L	1.366	1	22890	2766222	0	Standard
⎢	**Cr**	**53**	**99.945**	ug/L	1.055	1	212	319851	0	Standard
⎢	**Fe**	**54**	**9949.879**	ug/L	141.359	1	90788	26581269	1	Standard
⎢	**Fe**	**57**	**9951.760**	ug/L	121.774	1	21922	10817989	0	Standard
⌊	**Mn**	**55**	**99.939**	ug/L	2.310	2	774	4211967	1	Standard
⌈>	**Ge**	**72**		ug/L			48940	47832	0	KED
⎢	**Ni**	**60**	**99.302**	ug/L	1.218	1	80	167499	0	KED
⎢	**Ni**	**62**	**99.576**	ug/L	0.687	0	16	27568	0	KED
⎢	**Cu**	**63**	**99.549**	ug/L	0.996	1	137	479480	0	KED
⎢	**Cu**	**65**	**99.337**	ug/L	1.449	1	67	245964	1	KED
⎢	**Zn**	**66**	**99.316**	ug/L	1.487	1	85	63907	0	KED
⎢	**Zn**	**67**	**99.821**	ug/L	1.378	1	17	10875	1	KED
⌊	**As**	**75**	**100.131**	ug/L	0.243	0	5	34307	0	KED
	Y	**89**		ug/L			438010	435901	0	Standard
	Kr	**83**		ug/L			58	98	14	Standard
⌈>	**In-1**	**115**		ug/L			11681	11464	0	KED
⎢	**Cd**	**111**	**98.834**	ug/L	1.168	1	5	35115	1	KED
⌊	**Cd**	**114**	**98.940**	ug/L	0.455	0	6	90840	1	KED
⌈>	**In**	**115**		ug/L			671207	634247	2	Standard
⌊	**Ag**	**107**	**100.412**	ug/L	5.217	5	227	2088241	3	Standard
⌈>	**Tb**	**159**		ug/L			1536215	1509944	1	Standard
⎢	**Tl**	**205**	**99.642**	ug/L	1.161	1	715	7162642	0	Standard
⌊	**Pb**	**208**	**99.568**	ug/L	1.060	1	628	9178607	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 01, 2023 15:43:38
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			984787	971268	1	Standard
	Be	**9**	**0.000**	ug/L	0.001	122	3	6	62	Standard
	C	**13**		ug/L			42921	43244	1	Standard
>	**Sc**	**45**		ug/L			850595	849823	0	Standard
	V	**51**	**0.005**	ug/L	0.003	60	7786	7944	0	Standard
	V-1	**51**	**-0.001**	ug/L	0.001	71	362	330	6	Standard
	Cr	**52**	**0.015**	ug/L	0.005	33	22890	23296	0	Standard
	Cr	**53**	**-0.005**	ug/L	0.004	89	212	197	7	Standard
	Fe	**54**	**0.981**	ug/L	0.335	34	90788	93381	1	Standard
	Fe	**57**	**0.291**	ug/L	0.612	210	21922	22225	3	Standard
	Mn	**55**	**0.000**	ug/L	0.001	291	774	789	5	Standard
>	**Ge**	**72**		ug/L			48940	49316	0	KED
	Ni	**60**	**0.016**	ug/L	0.012	77	80	108	19	KED
	Ni	**62**	**0.008**	ug/L	0.041	480	16	19	60	KED
	Cu	**63**	**0.002**	ug/L	0.006	244	137	150	18	KED
	Cu	**65**	**0.005**	ug/L	0.003	56	67	81	8	KED
	Zn	**66**	**0.030**	ug/L	0.013	43	85	106	8	KED
	Zn	**67**	**0.010**	ug/L	0.026	255	17	18	15	KED
	As	**75**	**0.004**	ug/L	0.004	98	5	6	21	KED
	Y	**89**		ug/L			438010	435496	2	Standard
	Kr	**83**		ug/L			58	74	20	Standard
>	**In-1**	**115**		ug/L			11681	11764	0	KED
	Cd	**111**	**-0.000**	ug/L	0.005	5204	5	5	28	KED
	Cd	**114**	**-0.001**	ug/L	0.005	926	6	5	88	KED
>	**In**	**115**		ug/L			671207	665659	1	Standard
	Ag	**107**	**0.004**	ug/L	0.000	9	227	317	3	Standard
>	**Tb**	**159**		ug/L			1536215	1519650	1	Standard
	Tl	**205**	**0.005**	ug/L	0.001	22	715	1048	7	Standard
	Pb	**208**	**0.000**	ug/L	0.000	99	628	664	7	Standard

Sample Information

Sample Date/Time: Monday, May 01, 2023 15:36:09
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.m
Mass Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Conditions File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123.cal

Calibration

Analyte	Mass	**r Corr Coef**	Slope	Std 1 Conc	Std 2 Conc	Std 3 Conc	Std 4 Conc	Std 5 Conc
Li	6							
Be	9	**1.0000**	0.008	0.20	10	20	50	100
C	13							
Sc	45							
V	51	**1.0000**	0.039	0.20	10	20	50	100
V-1	51	**1.0000**	0.040	0.20	10	20	50	100
Cr	52	**1.0000**	0.033	0.50	10	20	50	100
Cr	53	**1.0000**	0.004	0.50	10	20	50	100
Fe	54	**1.0000**	0.003	36.00	1000	2000	5000	10000
Fe	57	**1.0000**	0.001	36.00	1000	2000	5000	10000
Mn	55	**1.0000**	0.051	0.50	10	20	50	100
Ge	72							
Ni	60	**0.9999**	0.035	0.50	10	20	50	100
Ni	62	**0.9999**	0.006	0.50	10	20	50	100
Cu	63	**0.9999**	0.101	0.50	10	20	50	100
Cu	65	**0.9999**	0.052	0.50	10	20	50	100
Zn	66	**0.9999**	0.013	6.00	10	20	50	100
Zn	67	**1.0000**	0.002	6.00	10	20	50	100
As	75	**1.0000**	0.007	0.20	10	20	50	100
Y	89							
Kr	83							
In-1	115							
Cd	111	**0.9998**	0.031	0.10	10	20	50	100
Cd	114	**0.9998**	0.080	0.10	10	20	50	100
In	115							
Ag	107	**1.0000**	0.033	0.20	10	20	50	100
Tb	159							
Tl	205	**1.0000**	0.048	0.20	10	20	50	100
Pb	208	**1.0000**	0.061	0.10	10	20	50	100

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-ICV1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 01, 2023 15:49:46
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			984787	970508	3	Standard
	Be	**9**	**49.301**	ug/L	1.688	3	3	364809	1	Standard
	C	**13**		ug/L			42921	51833	1	Standard
>	**Sc**	**45**		ug/L			850595	871334	0	Standard
	V	**51**	**49.964**	ug/L	0.365	0	7786	1723648	0	Standard
	V-1	**51**	**49.751**	ug/L	0.389	0	362	1725315	0	Standard
	Cr	**52**	**50.701**	ug/L	0.473	0	22890	1480829	1	Standard
	Cr	**53**	**49.971**	ug/L	0.685	1	212	167866	0	Standard
	Fe	**54**	**5046.859**	ug/L	102.243	2	90788	14189084	1	Standard
	Fe	**57**	**5117.003**	ug/L	96.681	1	21922	5845669	0	Standard
	Mn	**55**	**50.406**	ug/L	0.390	0	774	2229317	1	Standard
>	**Ge**	**72**		ug/L			48940	48814	2	KED
	Ni	**60**	**51.721**	ug/L	1.425	2	80	89042	1	KED
	Ni	**62**	**52.556**	ug/L	1.086	2	16	14854	1	KED
	Cu	**63**	**53.194**	ug/L	0.598	1	137	261502	1	KED
	Cu	**65**	**52.258**	ug/L	1.035	1	67	132047	0	KED
	Zn	**66**	**51.355**	ug/L	0.485	0	85	33765	1	KED
	Zn	**67**	**51.091**	ug/L	1.738	3	17	5686	2	KED
	As	**75**	**48.131**	ug/L	0.896	1	5	16827	0	KED
	Y	**89**		ug/L			438010	432646	0	Standard
	Kr	**83**		ug/L			58	66	10	Standard
>	**In-1**	**115**		ug/L			11681	11657	0	KED
	Cd	**111**	**50.433**	ug/L	0.159	0	5	18223	0	KED
	Cd	**114**	**50.564**	ug/L	0.312	0	6	47208	0	KED
>	**In**	**115**		ug/L			671207	650935	2	Standard
	Ag	**107**	**52.337**	ug/L	1.354	2	227	1117333	0	Standard
>	**Tb**	**159**		ug/L			1536215	1560731	1	Standard
	Tl	**205**	**51.529**	ug/L	0.469	0	715	3829039	1	Standard
	Pb	**208**	**51.150**	ug/L	0.879	1	628	4873575	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-ICB1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 01, 2023 15:57:15
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			984787	982741	4	Standard
	Be	**9**	**0.001**	ug/L	0.000	83	3	7	50	Standard
	C	**13**		ug/L			42921	43013	0	Standard
>	**Sc**	**45**		ug/L			850595	845083	1	Standard
	V	**51**	**-0.004**	ug/L	0.008	200	7786	7592	2	Standard
	V-1	**51**	**-0.001**	ug/L	0.000	43	362	331	4	Standard
	Cr	**52**	**-0.013**	ug/L	0.026	205	22890	22380	2	Standard
	Cr	**53**	**-0.001**	ug/L	0.004	323	212	206	7	Standard
	Fe	**54**	**0.210**	ug/L	0.567	270	90788	90776	2	Standard
	Fe	**57**	**-0.023**	ug/L	0.025	108	21922	21754	1	Standard
	Mn	**55**	**-0.000**	ug/L	0.001	319	774	759	5	Standard
>	**Ge**	**72**		ug/L			48940	48664	1	KED
	Ni	**60**	**-0.006**	ug/L	0.002	39	80	69	6	KED
	Ni	**62**	**-0.002**	ug/L	0.025	1152	16	15	45	KED
	Cu	**63**	**0.002**	ug/L	0.002	112	137	146	5	KED
	Cu	**65**	**0.000**	ug/L	0.004	2185	67	67	13	KED
	Zn	**66**	**0.016**	ug/L	0.019	115	85	95	14	KED
	Zn	**67**	**-0.039**	ug/L	0.055	142	17	12	45	KED
	As	**75**	**0.001**	ug/L	0.004	258	5	5	24	KED
	Y	**89**		ug/L			438010	422227	1	Standard
	Kr	**83**		ug/L			58	54	29	Standard
>	**In-1**	**115**		ug/L			11681	11792	1	KED
	Cd	**111**	**-0.004**	ug/L	0.006	156	5	4	44	KED
	Cd	**114**	**-0.001**	ug/L	0.002	208	6	4	45	KED
>	**In**	**115**		ug/L			671207	650420	1	Standard
	Ag	**107**	**0.002**	ug/L	0.001	49	227	271	10	Standard
>	**Tb**	**159**		ug/L			1536215	1486139	1	Standard
	Tl	**205**	**0.001**	ug/L	0.000	61	715	742	3	Standard
	Pb	**208**	**-0.000**	ug/L	0.000	68	628	584	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 01, 2023 16:02:00
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			984787	979721	1	Standard
	Be	**9**	**49.467**	ug/L	2.010	4	3	369578	2	Standard
	C	**13**		ug/L			42921	43743	0	Standard
>	**Sc**	**45**		ug/L			850595	868111	1	Standard
	V	**51**	**49.449**	ug/L	1.145	2	7786	1699260	1	Standard
	V-1	**51**	**49.225**	ug/L	1.114	2	362	1700414	0	Standard
	Cr	**52**	**49.643**	ug/L	0.939	1	22890	1444839	1	Standard
	Cr	**53**	**48.896**	ug/L	0.754	1	212	163635	0	Standard
	Fe	**54**	**4991.238**	ug/L	58.400	1	90788	13982399	1	Standard
	Fe	**57**	**4978.452**	ug/L	26.445	0	21922	5667952	2	Standard
	Mn	**55**	**50.470**	ug/L	1.007	1	774	2223310	0	Standard
>	**Ge**	**72**		ug/L			48940	49488	1	KED
	Ni	**60**	**49.578**	ug/L	1.051	2	80	86552	1	KED
	Ni	**62**	**50.613**	ug/L	0.382	0	16	14505	0	KED
	Cu	**63**	**50.803**	ug/L	0.404	0	137	253237	1	KED
	Cu	**65**	**50.206**	ug/L	0.520	1	67	128640	0	KED
	Zn	**66**	**51.077**	ug/L	0.607	1	85	34046	0	KED
	Zn	**67**	**49.731**	ug/L	0.293	0	17	5614	0	KED
	As	**75**	**49.657**	ug/L	0.761	1	5	17603	0	KED
	Y	**89**		ug/L			438010	439618	1	Standard
	Kr	**83**		ug/L			58	78	17	Standard
>	**In-1**	**115**		ug/L			11681	11419	1	KED
	Cd	**111**	**51.998**	ug/L	1.375	2	5	18399	1	KED
	Cd	**114**	**50.914**	ug/L	1.535	3	6	46548	1	KED
>	**In**	**115**		ug/L			671207	660756	2	Standard
	Ag	**107**	**50.867**	ug/L	0.787	1	227	1102585	1	Standard
>	**Tb**	**159**		ug/L			1536215	1540098	1	Standard
	Tl	**205**	**50.991**	ug/L	0.929	1	715	3738724	0	Standard
	Pb	**208**	**50.690**	ug/L	0.685	1	628	4766265	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 01, 2023 16:09:29
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			984787	983615	1	Standard
⌊	**Be**	**9**	**0.000**	ug/L	0.000	9	3	3	0	Standard
	C	**13**		ug/L			42921	42181	2	Standard
⌈>	**Sc**	**45**		ug/L			850595	851326	1	Standard
⌈	**V**	**51**	**-0.002**	ug/L	0.004	278	7786	7741	1	Standard
⌊	**V-1**	**51**	**-0.001**	ug/L	0.000	30	362	317	3	Standard
⌈	**Cr**	**52**	**-0.006**	ug/L	0.021	369	22890	22751	1	Standard
⌊	**Cr**	**53**	**-0.005**	ug/L	0.007	154	212	196	11	Standard
⌈	**Fe**	**54**	**0.640**	ug/L	0.875	136	90788	92595	1	Standard
⌊	**Fe**	**57**	**-0.212**	ug/L	0.369	174	21922	21702	0	Standard
⌊	**Mn**	**55**	**0.000**	ug/L	0.001	1332	774	779	5	Standard
⌈>	**Ge**	**72**		ug/L			48940	49884	0	KED
⌈	**Ni**	**60**	**-0.007**	ug/L	0.002	29	80	69	5	KED
⌊	**Ni**	**62**	**-0.006**	ug/L	0.013	235	16	15	25	KED
⌈	**Cu**	**63**	**-0.003**	ug/L	0.005	181	137	126	19	KED
⌊	**Cu**	**65**	**0.000**	ug/L	0.004	800	67	70	14	KED
⌈	**Zn**	**66**	**0.036**	ug/L	0.013	36	85	111	8	KED
⌊	**Zn**	**67**	**-0.003**	ug/L	0.033	1148	17	17	22	KED
⌊	**As**	**75**	**0.002**	ug/L	0.006	385	5	5	36	KED
	Y	**89**		ug/L			438010	422014	1	Standard
	Kr	**83**		ug/L			58	67	10	Standard
⌈>	**In-1**	**115**		ug/L			11681	12000	1	KED
⌈	**Cd**	**111**	**0.026**	ug/L	0.028	106	5	15	66	KED
⌊	**Cd**	**114**	**0.026**	ug/L	0.026	99	6	31	78	KED
⌈>	**In**	**115**		ug/L			671207	649526	1	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.001	73	227	246	7	Standard
⌈>	**Tb**	**159**		ug/L			1536215	1485680	0	Standard
⌈	**Tl**	**205**	**0.001**	ug/L	0.001	112	715	757	9	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	27	628	646	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CRL1
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Monday, May 01, 2023 16:14:13
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			984787	977799	0	Standard
	Be	**9**	**0.199**	ug/L	0.005	2	3	1486	2	Standard
	C	**13**		ug/L			42921	55652	2	Standard
>	**Sc**	**45**		ug/L			850595	852249	0	Standard
	V	**51**	**0.197**	ug/L	0.009	4	7786	14406	1	Standard
	V-1	**51**	**0.194**	ug/L	0.004	1	362	6928	1	Standard
	Cr	**52**	**0.517**	ug/L	0.013	2	22890	37467	1	Standard
	Cr	**53**	**0.497**	ug/L	0.011	2	212	1842	2	Standard
	Fe	**54**	**38.854**	ug/L	1.240	3	90788	197135	2	Standard
	Fe	**57**	**37.068**	ug/L	0.491	1	21922	63227	0	Standard
	Mn	**55**	**0.503**	ug/L	0.009	1	774	22529	1	Standard
>	**Ge**	**72**		ug/L			48940	49268	2	KED
	Ni	**60**	**0.482**	ug/L	0.034	7	80	916	4	KED
	Ni	**62**	**0.534**	ug/L	0.025	4	16	168	3	KED
	Cu	**63**	**0.818**	ug/L	0.005	0	137	4194	1	KED
	Cu	**65**	**0.821**	ug/L	0.051	6	67	2159	4	KED
	Zn	**66**	**6.475**	ug/L	0.031	0	85	4372	2	KED
	Zn	**67**	**5.653**	ug/L	0.311	5	17	650	3	KED
	As	**75**	**0.207**	ug/L	0.020	9	5	78	7	KED
	Y	**89**		ug/L			438010	430561	1	Standard
	Kr	**83**		ug/L			58	83	17	Standard
>	**In-1**	**115**		ug/L			11681	11821	0	KED
	Cd	**111**	**0.094**	ug/L	0.010	10	5	40	8	KED
	Cd	**114**	**0.101**	ug/L	0.006	5	6	101	5	KED
>	**In**	**115**		ug/L			671207	656387	0	Standard
	Ag	**107**	**0.205**	ug/L	0.003	1	227	4644	2	Standard
>	**Tb**	**159**		ug/L			1536215	1530072	0	Standard
	Tl	**205**	**0.195**	ug/L	0.004	1	715	14887	2	Standard
	Pb	**208**	**0.104**	ug/L	0.003	2	628	10364	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CRL1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 01, 2023 16:19:49

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			984787	998293	2	Standard
	Be	**9**	**0.207**	ug/L	0.007	3	3	1580	3	Standard
	C	**13**		ug/L			42921	54373	2	Standard
>	**Sc**	**45**		ug/L			850595	852711	2	Standard
	V	**51**	**0.201**	ug/L	0.006	2	7786	14549	0	Standard
	V-1	**51**	**0.195**	ug/L	0.002	1	362	6984	2	Standard
	Cr	**52**	**0.521**	ug/L	0.013	2	22890	37597	1	Standard
	Cr	**53**	**0.492**	ug/L	0.007	1	212	1829	3	Standard
	Fe	**54**	**39.570**	ug/L	1.035	2	90788	199140	0	Standard
	Fe	**57**	**37.926**	ug/L	1.158	3	21922	64204	1	Standard
	Mn	**55**	**0.508**	ug/L	0.013	2	774	22750	0	Standard
>	**Ge**	**72**		ug/L			48940	49723	1	KED
	Ni	**60**	**0.500**	ug/L	0.029	5	80	956	3	KED
	Ni	**62**	**0.551**	ug/L	0.039	7	16	175	6	KED
	Cu	**63**	**0.905**	ug/L	0.003	0	137	4672	1	KED
	Cu	**65**	**0.913**	ug/L	0.025	2	67	2417	1	KED
	Zn	**66**	**6.130**	ug/L	0.188	3	85	4184	4	KED
	Zn	**67**	**5.968**	ug/L	0.255	4	17	692	2	KED
	As	**75**	**0.198**	ug/L	0.010	4	5	75	3	KED
	Y	**89**		ug/L			438010	438574	3	Standard
	Kr	**83**		ug/L			58	69	19	Standard
>	**In-1**	**115**		ug/L			11681	11816	1	KED
	Cd	**111**	**0.106**	ug/L	0.010	9	5	44	8	KED
	Cd	**114**	**0.103**	ug/L	0.025	24	6	103	22	KED
>	**In**	**115**		ug/L			671207	654653	1	Standard
	Ag	**107**	**0.207**	ug/L	0.005	2	227	4676	3	Standard
>	**Tb**	**159**		ug/L			1536215	1506801	0	Standard
	Tl	**205**	**0.200**	ug/L	0.004	1	715	15075	1	Standard
	Pb	**208**	**0.104**	ug/L	0.001	1	628	10224	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CRL1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 01, 2023 16:29:27
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			984787	987306	2	Standard
⌊	**Be**	**9**	**0.189**	ug/L	0.010	5	3	1425	7	Standard
	C	**13**		ug/L			42921	40291	0	Standard
⌈>	**Sc**	**45**		ug/L			850595	856745	0	Standard
⌈	**V**	**51**	**0.180**	ug/L	0.012	6	7786	13920	2	Standard
⌊	**V-1**	**51**	**0.182**	ug/L	0.005	2	362	6561	1	Standard
⌈	**Cr**	**52**	**0.471**	ug/L	0.017	3	22890	36359	1	Standard
⌊	**Cr**	**53**	**0.467**	ug/L	0.016	3	212	1755	3	Standard
⌈	**Fe**	**54**	**35.892**	ug/L	0.894	2	90788	190023	1	Standard
⌊	**Fe**	**57**	**34.932**	ug/L	0.531	1	21922	61174	1	Standard
⌊	**Mn**	**55**	**0.470**	ug/L	0.008	1	774	21220	1	Standard
⌈>	**Ge**	**72**		ug/L			48940	51221	1	KED
⌈	**Ni**	**60**	**0.477**	ug/L	0.017	3	80	945	2	KED
⌊	**Ni**	**62**	**0.432**	ug/L	0.010	2	16	145	3	KED
⌈	**Cu**	**63**	**0.495**	ug/L	0.029	5	137	2694	4	KED
⌊	**Cu**	**65**	**0.507**	ug/L	0.016	3	67	1414	2	KED
⌈	**Zn**	**66**	**6.001**	ug/L	0.246	4	85	4219	3	KED
⌊	**Zn**	**67**	**5.192**	ug/L	0.224	4	17	622	4	KED
⌊	**As**	**75**	**0.190**	ug/L	0.012	6	5	74	4	KED
	Y	**89**		ug/L			438010	426584	1	Standard
	Kr	**83**		ug/L			58	69	16	Standard
⌈>	**In-1**	**115**		ug/L			11681	12495	2	KED
⌈	**Cd**	**111**	**0.089**	ug/L	0.014	15	5	40	12	KED
⌊	**Cd**	**114**	**0.093**	ug/L	0.009	9	6	99	10	KED
⌈>	**In**	**115**		ug/L			671207	661170	2	Standard
⌊	**Ag**	**107**	**0.192**	ug/L	0.006	3	227	4393	2	Standard
⌈>	**Tb**	**159**		ug/L			1536215	1519771	0	Standard
⌈	**Tl**	**205**	**0.182**	ug/L	0.000	0	715	13878	0	Standard
⌊	**Pb**	**208**	**0.095**	ug/L	0.001	1	628	9422	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IFA1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 01, 2023 16:34:10
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			984787	1098731	1	Standard
	Be	**9**	**0.008**	ug/L	0.001	17	3	69	16	Standard
	C	**13**		ug/L			42921	180266	0	Standard
>	**Sc**	**45**		ug/L			850595	870063	1	Standard
	V	**51**	**0.060**	ug/L	0.014	22	7786	10029	3	Standard
	V-1	**51**	**1.316**	ug/L	0.033	2	362	45920	1	Standard
	Cr	**52**	**0.654**	ug/L	0.020	3	22890	42193	0	Standard
	Cr	**53**	**4.785**	ug/L	0.080	1	212	16245	0	Standard
	Fe	**54**	**18965.339**	ug/L	26.100	0	90788	52990551	0	Standard
	Fe	**57**	**18733.165**	ug/L	497.284	2	21922	21308980	1	Standard
	Mn	**55**	**0.109**	ug/L	0.004	4	774	5592	2	Standard
>	**Ge**	**72**		ug/L			48940	47717	0	KED
	Ni	**60**	**0.080**	ug/L	0.016	20	80	213	13	KED
	Ni	**62**	**0.151**	ug/L	0.077	51	16	57	37	KED
	Cu	**63**	**0.028**	ug/L	0.005	18	137	268	8	KED
	Cu	**65**	**0.036**	ug/L	0.006	17	67	154	10	KED
	Zn	**66**	**0.336**	ug/L	0.008	2	85	299	1	KED
	Zn	**67**	**0.384**	ug/L	0.055	14	17	58	9	KED
	As	**75**	**0.028**	ug/L	0.006	19	5	14	13	KED
	Y	**89**		ug/L			438010	428496	2	Standard
	Kr	**83**		ug/L			58	165	15	Standard
>	**In-1**	**115**		ug/L			11681	11040	1	KED
	Cd	**111**	**0.077**	ug/L	0.017	21	5	31	16	KED
	Cd	**114**	**0.068**	ug/L	0.017	24	6	65	20	KED
>	**In**	**115**		ug/L			671207	660228	2	Standard
	Ag	**107**	**0.040**	ug/L	0.004	9	227	1090	4	Standard
>	**Tb**	**159**		ug/L			1536215	1567936	1	Standard
	Tl	**205**	**0.011**	ug/L	0.000	3	715	1557	3	Standard
	Pb	**208**	**0.033**	ug/L	0.001	2	628	3843	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IFB1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 01, 2023 16:38:54
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			984787	1097961	4	Standard
	Be	**9**	**0.008**	ug/L	0.001	8	3	73	12	Standard
	C	**13**		ug/L			42921	183512	0	Standard
>	**Sc**	**45**		ug/L			850595	852802	0	Standard
	V	**51**	**-0.168**	ug/L	0.055	32	7786	2155	85	Standard
	V-1	**51**	**1.312**	ug/L	0.013	0	362	44888	1	Standard
	Cr	**52**	**19.156**	ug/L	0.289	1	22890	561874	1	Standard
	Cr	**53**	**23.432**	ug/L	0.362	1	212	77157	1	Standard
	Fe	**54**	**18911.588**	ug/L	146.885	0	90788	51792847	0	Standard
	Fe	**57**	**18529.660**	ug/L	387.238	2	21922	20663185	2	Standard
	Mn	**55**	**18.719**	ug/L	0.184	0	774	810757	1	Standard
>	**Ge**	**72**		ug/L			48940	47182	0	KED
	Ni	**60**	**20.821**	ug/L	0.480	2	80	34706	2	KED
	Ni	**62**	**20.920**	ug/L	0.350	1	16	5726	1	KED
	Cu	**63**	**20.681**	ug/L	0.162	0	137	98367	0	KED
	Cu	**65**	**20.452**	ug/L	0.139	0	67	50004	0	KED
	Zn	**66**	**19.307**	ug/L	0.126	0	85	12322	0	KED
	Zn	**67**	**17.401**	ug/L	0.716	4	17	1883	4	KED
	As	**75**	**19.287**	ug/L	0.311	1	5	6522	1	KED
	Y	**89**		ug/L			438010	427891	2	Standard
	Kr	**83**		ug/L			58	153	19	Standard
>	**In-1**	**115**		ug/L			11681	10407	1	KED
	Cd	**111**	**19.912**	ug/L	0.461	2	5	6425	1	KED
	Cd	**114**	**19.692**	ug/L	0.411	2	6	16415	1	KED
>	**In**	**115**		ug/L			671207	659393	1	Standard
	Ag	**107**	**18.383**	ug/L	0.366	1	227	397831	1	Standard
>	**Tb**	**159**		ug/L			1536215	1579592	0	Standard
	Tl	**205**	**0.005**	ug/L	0.000	9	715	1112	2	Standard
	Pb	**208**	**0.014**	ug/L	0.000	0	628	2040	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-HCV1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 01, 2023 16:43:38
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			984787	1017872	1	Standard
	Be	**9**	**184.250**	ug/L	2.233	1	3	1430652	0	Standard
	C	**13**		ug/L			42921	51210	0	Standard
>	**Sc**	**45**		ug/L			850595	810803	0	Standard
	V	**51**	**193.929**	ug/L	4.856	2	7786	6203060	1	Standard
	V-1	**51**	**193.136**	ug/L	6.020	3	362	6230602	2	Standard
	Cr	**52**	**190.679**	ug/L	1.654	0	22890	5121835	0	Standard
	Cr	**53**	**188.159**	ug/L	4.885	2	212	587575	1	Standard
	Fe	**54**	**18895.232**	ug/L	161.381	0	90788	49196879	0	Standard
	Fe	**57**	**18957.171**	ug/L	351.593	1	21922	20095643	0	Standard
	Mn	**55**	**190.407**	ug/L	4.231	2	774	7832940	1	Standard
>	**Ge**	**72**		ug/L			48940	45136	0	KED
	Ni	**60**	**197.301**	ug/L	0.508	0	80	313988	0	KED
	Ni	**62**	**201.358**	ug/L	3.479	1	16	52589	1	KED
	Cu	**63**	**198.003**	ug/L	1.646	0	137	899845	0	KED
	Cu	**65**	**193.916**	ug/L	1.939	0	67	453019	0	KED
	Zn	**66**	**197.989**	ug/L	1.694	0	85	120150	0	KED
	Zn	**67**	**189.837**	ug/L	2.888	1	17	19502	1	KED
	As	**75**	**195.116**	ug/L	1.209	0	5	63078	0	KED
	Y	**89**		ug/L			438010	411359	2	Standard
	Kr	**83**		ug/L			58	156	9	Standard
>	**In-1**	**115**		ug/L			11681	10158	1	KED
	Cd	**111**	**201.384**	ug/L	3.016	1	5	63387	0	KED
	Cd	**114**	**200.276**	ug/L	3.207	1	6	162907	0	KED
>	**In**	**115**		ug/L			671207	623270	1	Standard
	Ag	**107**	**195.188**	ug/L	6.342	3	227	3989578	1	Standard
>	**Tb**	**159**		ug/L			1536215	1475110	0	Standard
	Tl	**205**	**207.071**	ug/L	4.580	2	715	14540988	1	Standard
	Pb	**208**	**204.937**	ug/L	3.239	1	628	18455921	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-HCV2
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 01, 2023 16:48:22
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			984787	935608	1	Standard
	Be	**9**	**296.456**	ug/L	2.260	0	3	2116051	1	Standard
	C	**13**		ug/L			42921	52472	1	Standard
>	**Sc**	**45**		ug/L			850595	781974	0	Standard
	V	**51**	**299.121**	ug/L	3.411	1	7786	9225806	2	Standard
	V-1	**51**	**297.336**	ug/L	3.592	1	362	9253350	2	Standard
	Cr	**52**	**295.735**	ug/L	3.207	1	22890	7649789	1	Standard
	Cr	**53**	**289.945**	ug/L	4.797	1	212	873234	1	Standard
	Fe	**54**	**29461.341**	ug/L	178.135	0	90788	73936856	1	Standard
	Fe	**57**	**29488.356**	ug/L	172.926	0	21922	30141313	1	Standard
	Mn	**55**	**294.188**	ug/L	7.440	2	774	11673709	2	Standard
>	**Ge**	**72**		ug/L			48940	43166	0	KED
	Ni	**60**	**304.671**	ug/L	5.500	1	80	463608	1	KED
	Ni	**62**	**305.228**	ug/L	4.607	1	16	76228	0	KED
	Cu	**63**	**297.292**	ug/L	1.753	0	137	1292012	0	KED
	Cu	**65**	**295.476**	ug/L	5.268	1	67	660137	2	KED
	Zn	**66**	**288.659**	ug/L	4.867	1	85	167482	1	KED
	Zn	**67**	**285.457**	ug/L	2.371	0	17	28038	0	KED
	As	**75**	**298.444**	ug/L	2.926	0	5	92264	0	KED
	Y	**89**		ug/L			438010	387379	1	Standard
	Kr	**83**		ug/L			58	240	10	Standard
>	**In-1**	**115**		ug/L			11681	9872	0	KED
	Cd	**111**	**303.342**	ug/L	2.153	0	5	92804	0	KED
	Cd	**114**	**299.719**	ug/L	4.746	1	6	236958	0	KED
>	**In**	**115**		ug/L			671207	585871	3	Standard
	Ag	**107**	**290.105**	ug/L	10.358	3	227	5571038	0	Standard
>	**Tb**	**159**		ug/L			1536215	1391521	2	Standard
	Tl	**205**	**317.328**	ug/L	8.833	2	715	21014655	0	Standard
	Pb	**208**	**315.288**	ug/L	8.887	2	628	26776578	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL2
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 01, 2023 16:55:50
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			984787	1048577	1	Standard
⌊	**Be**	**9**	**0.002**	ug/L	0.001	66	3	17	52	Standard
	C	**13**		ug/L			42921	52918	1	Standard
⌈>	**Sc**	**45**		ug/L			850595	837614	0	Standard
⌈	**V**	**51**	**0.006**	ug/L	0.004	69	7786	7862	2	Standard
⌊	**V-1**	**51**	**0.018**	ug/L	0.001	4	362	950	3	Standard
⌈	**Cr**	**52**	**0.008**	ug/L	0.011	144	22890	22757	1	Standard
⌊	**Cr**	**53**	**0.047**	ug/L	0.007	14	212	361	5	Standard
⌈	**Fe**	**54**	**1.376**	ug/L	0.338	24	90788	93094	0	Standard
⌊	**Fe**	**57**	**-1.285**	ug/L	0.600	46	21922	20180	3	Standard
⌊	**Mn**	**55**	**0.002**	ug/L	0.001	50	774	857	5	Standard
⌈>	**Ge**	**72**		ug/L			48940	49264	1	KED
⌈	**Ni**	**60**	**-0.013**	ug/L	0.008	60	80	57	25	KED
⌊	**Ni**	**62**	**0.011**	ug/L	0.029	263	16	19	40	KED
⌈	**Cu**	**63**	**-0.010**	ug/L	0.002	20	137	87	13	KED
⌊	**Cu**	**65**	**-0.012**	ug/L	0.003	20	67	37	15	KED
⌈	**Zn**	**66**	**-0.051**	ug/L	0.007	14	85	52	7	KED
⌊	**Zn**	**67**	**-0.092**	ug/L	0.010	11	17	6	15	KED
⌊	**As**	**75**	**0.063**	ug/L	0.003	5	5	27	5	KED
	Y	**89**		ug/L			438010	413762	1	Standard
	Kr	**83**		ug/L			58	66	15	Standard
⌈>	**In-1**	**115**		ug/L			11681	11612	1	KED
⌈	**Cd**	**111**	**-0.001**	ug/L	0.003	415	5	5	20	KED
⌊	**Cd**	**114**	**0.004**	ug/L	0.000	7	6	9	1	KED
⌈>	**In**	**115**		ug/L			671207	666966	2	Standard
⌊	**Ag**	**107**	**0.010**	ug/L	0.001	5	227	445	3	Standard
⌈>	**Tb**	**159**		ug/L			1536215	1535094	1	Standard
⌈	**Tl**	**205**	**0.020**	ug/L	0.000	2	715	2173	0	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.001	221	628	655	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV2
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 01, 2023 17:02:29
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			984787	1032589	2	Standard
	Be	**9**	**48.106**	ug/L	1.040	2	3	378892	1	Standard
	C	**13**		ug/L			42921	44408	1	Standard
>	**Sc**	**45**		ug/L			850595	842412	1	Standard
	V	**51**	**49.540**	ug/L	1.357	2	7786	1651930	1	Standard
	V-1	**51**	**49.491**	ug/L	1.584	3	362	1658870	1	Standard
	Cr	**52**	**49.246**	ug/L	0.612	1	22890	1391160	1	Standard
	Cr	**53**	**49.092**	ug/L	1.150	2	212	159420	0	Standard
	Fe	**54**	**5024.292**	ug/L	137.166	2	90788	13657501	2	Standard
	Fe	**57**	**5085.714**	ug/L	29.478	0	21922	5618194	2	Standard
	Mn	**55**	**50.104**	ug/L	0.267	0	774	2142387	1	Standard
>	**Ge**	**72**		ug/L			48940	49256	1	KED
	Ni	**60**	**51.238**	ug/L	1.137	2	80	89023	0	KED
	Ni	**62**	**51.246**	ug/L	1.886	3	16	14613	2	KED
	Cu	**63**	**52.018**	ug/L	0.272	0	137	258075	1	KED
	Cu	**65**	**51.056**	ug/L	0.547	1	67	130202	0	KED
	Zn	**66**	**51.733**	ug/L	1.046	2	85	34317	0	KED
	Zn	**67**	**51.144**	ug/L	1.021	1	17	5746	2	KED
	As	**75**	**50.099**	ug/L	0.873	1	5	17675	0	KED
	Y	**89**		ug/L			438010	425979	3	Standard
	Kr	**83**		ug/L			58	53	29	Standard
>	**In-1**	**115**		ug/L			11681	11649	1	KED
	Cd	**111**	**50.186**	ug/L	0.375	0	5	18120	0	KED
	Cd	**114**	**50.602**	ug/L	0.701	1	6	47206	0	KED
>	**In**	**115**		ug/L			671207	647745	1	Standard
	Ag	**107**	**50.623**	ug/L	0.701	1	227	1075747	0	Standard
>	**Tb**	**159**		ug/L			1536215	1538411	0	Standard
	Tl	**205**	**51.584**	ug/L	0.340	0	715	3778752	0	Standard
	Pb	**208**	**51.382**	ug/L	0.475	0	628	4826761	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB2
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 01, 2023 17:09:58
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			984787	999617	1	Standard
	Be	**9**	**0.001**	ug/L	0.000	45	3	8	26	Standard
	C	**13**		ug/L			42921	44496	0	Standard
>	**Sc**	**45**		ug/L			850595	815817	2	Standard
	V	**51**	**-0.000**	ug/L	0.005	1290	7786	7455	2	Standard
	V-1	**51**	**0.008**	ug/L	0.001	10	362	611	5	Standard
	Cr	**52**	**-0.004**	ug/L	0.015	408	22890	21847	1	Standard
	Cr	**53**	**0.024**	ug/L	0.008	31	212	280	6	Standard
	Fe	**54**	**0.642**	ug/L	1.069	166	90788	88715	1	Standard
	Fe	**57**	**-0.054**	ug/L	0.267	489	21922	20962	1	Standard
	Mn	**55**	**-0.000**	ug/L	0.001	5547	774	741	6	Standard
>	**Ge**	**72**		ug/L			48940	48766	1	KED
	Ni	**60**	**-0.013**	ug/L	0.010	76	80	56	30	KED
	Ni	**62**	**-0.022**	ug/L	0.011	48	16	10	28	KED
	Cu	**63**	**-0.004**	ug/L	0.003	72	137	118	11	KED
	Cu	**65**	**-0.001**	ug/L	0.010	655	67	64	38	KED
	Zn	**66**	**0.008**	ug/L	0.021	262	85	90	15	KED
	Zn	**67**	**-0.034**	ug/L	0.029	84	17	13	24	KED
	As	**75**	**0.020**	ug/L	0.008	40	5	11	24	KED
	Y	**89**		ug/L			438010	409997	1	Standard
	Kr	**83**		ug/L			58	73	16	Standard
>	**In-1**	**115**		ug/L			11681	11391	0	KED
	Cd	**111**	**-0.004**	ug/L	0.008	188	5	4	66	KED
	Cd	**114**	**0.000**	ug/L	0.001	488	6	6	16	KED
>	**In**	**115**		ug/L			671207	659544	2	Standard
	Ag	**107**	**0.002**	ug/L	0.001	29	227	266	4	Standard
>	**Tb**	**159**		ug/L			1536215	1478203	0	Standard
	Tl	**205**	**0.004**	ug/L	0.001	15	715	1001	4	Standard
	Pb	**208**	**0.000**	ug/L	0.000	762	628	608	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0018-BLK1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 01, 2023 17:16:41
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			984787	971103	7	Standard
	Be	9	0.000	ug/L	0.000	201	3	5	78	Standard
	C	13		ug/L			42921	59593	1	Standard
>	Sc	45		ug/L			850595	808057	6	Standard
	V	51	0.014	ug/L	0.012	84	7786	7822	3	Standard
	V-1	51	0.013	ug/L	0.002	14	362	760	1	Standard
	Cr	52	0.034	ug/L	0.032	93	22890	22617	3	Standard
	Cr	53	0.031	ug/L	0.003	9	212	297	8	Standard
	Fe	54	3.952	ug/L	1.482	37	90788	96312	3	Standard
	Fe	57	1.160	ug/L	0.399	34	21922	22031	5	Standard
	Mn	55	0.034	ug/L	0.002	4	774	2112	5	Standard
>	Ge	72		ug/L			48940	50114	0	KED
	Ni	60	-0.024	ug/L	0.004	16	80	40	17	KED
	Ni	62	-0.019	ug/L	0.006	33	16	11	16	KED
	Cu	63	-0.002	ug/L	0.003	190	137	132	12	KED
	Cu	65	0.003	ug/L	0.006	215	67	76	20	KED
	Zn	66	0.059	ug/L	0.034	57	85	127	17	KED
	Zn	67	0.052	ug/L	0.058	111	17	23	28	KED
	As	75	0.009	ug/L	0.007	81	5	8	31	KED
	Y	89		ug/L			438010	401946	8	Standard
	Kr	83		ug/L			58	56	21	Standard
>	In-1	115		ug/L			11681	11786	0	KED
	Cd	111	-0.004	ug/L	0.003	87	5	4	24	KED
	Cd	114	-0.002	ug/L	0.004	200	6	4	94	KED
>	In	115		ug/L			671207	627248	6	Standard
	Ag	107	-0.001	ug/L	0.001	35	227	182	10	Standard
>	Tb	159		ug/L			1536215	1454737	6	Standard
	Tl	205	0.001	ug/L	0.000	59	715	732	9	Standard
	Pb	208	-0.001	ug/L	0.000	29	628	509	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0018-BS1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 01, 2023 17:21:25
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			984787	1001553	2	Standard
	Be	**9**	**25.164**	ug/L	0.455	1	3	192322	3	Standard
	C	**13**		ug/L			42921	63501	1	Standard
>	**Sc**	**45**		ug/L			850595	831381	0	Standard
	V	**51**	**25.681**	ug/L	0.206	0	7786	849026	1	Standard
	V-1	**51**	**25.603**	ug/L	0.180	0	362	847420	1	Standard
	Cr	**52**	**26.002**	ug/L	0.286	1	22890	735520	1	Standard
	Cr	**53**	**25.738**	ug/L	0.421	1	212	82600	1	Standard
	Fe	**54**	**5085.762**	ug/L	36.403	0	90788	13643244	0	Standard
	Fe	**57**	**5051.964**	ug/L	54.308	1	21922	5507673	1	Standard
	Mn	**55**	**26.078**	ug/L	0.295	1	774	1100852	1	Standard
>	**Ge**	**72**		ug/L			48940	47395	1	KED
	Ni	**60**	**27.187**	ug/L	0.363	1	80	45500	2	KED
	Ni	**62**	**27.292**	ug/L	1.776	6	16	7498	6	KED
	Cu	**63**	**27.251**	ug/L	0.396	1	137	130139	1	KED
	Cu	**65**	**26.856**	ug/L	0.682	2	67	65918	1	KED
	Zn	**66**	**86.087**	ug/L	2.845	3	85	54883	1	KED
	Zn	**67**	**81.101**	ug/L	1.842	2	17	8756	1	KED
	As	**75**	**25.961**	ug/L	0.283	1	5	8816	0	KED
	Y	**89**		ug/L			438010	415807	0	Standard
	Kr	**83**		ug/L			58	69	30	Standard
>	**In-1**	**115**		ug/L			11681	10981	1	KED
	Cd	**111**	**27.069**	ug/L	0.619	2	5	9214	0	KED
	Cd	**114**	**26.662**	ug/L	0.554	2	6	23448	1	KED
>	**In**	**115**		ug/L			671207	632274	1	Standard
	Ag	**107**	**26.488**	ug/L	0.540	2	227	549604	2	Standard
>	**Tb**	**159**		ug/L			1536215	1490379	1	Standard
	Tl	**205**	**26.159**	ug/L	0.346	1	715	1856495	0	Standard
	Pb	**208**	**26.504**	ug/L	0.431	1	628	2411830	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0785-BLK2
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 01, 2023 17:26:38
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			984787	1021241	0	Standard
	Be	**9**	**0.009**	ug/L	0.014	159	3	72	152	Standard
	C	**13**		ug/L			42921	82047	0	Standard
>	**Sc**	**45**		ug/L			850595	847672	0	Standard
	V	**51**	**0.033**	ug/L	0.016	47	7786	8856	5	Standard
	V-1	**51**	**0.022**	ug/L	0.015	66	362	1118	44	Standard
	Cr	**52**	**0.114**	ug/L	0.019	16	22890	26004	2	Standard
	Cr	**53**	**0.077**	ug/L	0.013	17	212	464	9	Standard
	Fe	**54**	**6.046**	ug/L	3.272	54	90788	106892	8	Standard
	Fe	**57**	**2.497**	ug/L	2.991	119	21922	24608	13	Standard
	Mn	**55**	**0.023**	ug/L	0.016	69	774	1753	38	Standard
>	**Ge**	**72**		ug/L			48940	48343	0	KED
	Ni	**60**	**-0.033**	ug/L	0.005	15	80	23	36	KED
	Ni	**62**	**-0.027**	ug/L	0.016	59	16	8	49	KED
	Cu	**63**	**0.004**	ug/L	0.001	28	137	156	3	KED
	Cu	**65**	**0.003**	ug/L	0.006	214	67	73	19	KED
	Zn	**66**	**7.301**	ug/L	0.096	1	85	4826	1	KED
	Zn	**67**	**6.608**	ug/L	0.298	4	17	743	4	KED
	As	**75**	**0.007**	ug/L	0.005	68	5	7	22	KED
	Y	**89**		ug/L			438010	415512	2	Standard
	Kr	**83**		ug/L			58	58	17	Standard
>	**In-1**	**115**		ug/L			11681	11321	0	KED
	Cd	**111**	**-0.002**	ug/L	0.005	212	5	4	34	KED
	Cd	**114**	**-0.005**	ug/L	0.002	47	6	1	114	KED
>	**In**	**115**		ug/L			671207	652320	0	Standard
	Ag	**107**	**0.011**	ug/L	0.019	167	227	466	88	Standard
>	**Tb**	**159**		ug/L			1536215	1491295	1	Standard
	Tl	**205**	**0.010**	ug/L	0.016	168	715	1372	82	Standard
	Pb	**208**	**0.009**	ug/L	0.016	188	628	1377	104	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0785-BS2
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 01, 2023 17:31:22
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			984787	1006263	4	Standard
	Be	**9**	**25.077**	ug/L	1.622	6	3	192117	1	Standard
	C	**13**		ug/L			42921	89236	1	Standard
>	**Sc**	**45**		ug/L			850595	828686	5	Standard
	V	**51**	**26.086**	ug/L	1.450	5	7786	857919	1	Standard
	V-1	**51**	**26.082**	ug/L	1.463	5	362	858818	1	Standard
	Cr	**52**	**26.382**	ug/L	1.566	5	22890	742063	0	Standard
	Cr	**53**	**26.359**	ug/L	1.622	6	212	84140	0	Standard
	Fe	**54**	**5335.485**	ug/L	261.622	4	90788	14238667	0	Standard
	Fe	**57**	**5243.307**	ug/L	269.360	5	21922	5686927	0	Standard
	Mn	**55**	**26.093**	ug/L	1.414	5	774	1095821	0	Standard
>	**Ge**	**72**		ug/L			48940	48224	1	KED
	Ni	**60**	**26.469**	ug/L	0.564	2	80	45060	0	KED
	Ni	**62**	**26.216**	ug/L	0.558	2	16	7329	2	KED
	Cu	**63**	**27.039**	ug/L	0.539	1	137	131374	0	KED
	Cu	**65**	**26.948**	ug/L	0.550	2	67	67303	0	KED
	Zn	**66**	**86.670**	ug/L	3.743	4	85	56211	2	KED
	Zn	**67**	**80.775**	ug/L	0.659	0	17	8877	2	KED
	As	**75**	**25.698**	ug/L	0.625	2	5	8877	0	KED
	Y	**89**		ug/L			438010	419005	3	Standard
	Kr	**83**		ug/L			58	61	15	Standard
>	**In-1**	**115**		ug/L			11681	11198	2	KED
	Cd	**111**	**26.849**	ug/L	0.667	2	5	9318	1	KED
	Cd	**114**	**26.398**	ug/L	0.754	2	6	23667	0	KED
>	**In**	**115**		ug/L			671207	633181	3	Standard
	Ag	**107**	**26.695**	ug/L	0.913	3	227	554286	0	Standard
>	**Tb**	**159**		ug/L			1536215	1494014	4	Standard
	Tl	**205**	**26.279**	ug/L	1.459	5	715	1866423	0	Standard
	Pb	**208**	**26.690**	ug/L	1.186	4	628	2431643	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0633-01
Sample Dil Factor: 10
Comments:
Sample Date/Time: Monday, May 01, 2023 17:36:07
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			984787	1089609	0	Standard
	Be	**9**	**0.000**	ug/L	0.001	281	3	5	86	Standard
	C	**13**		ug/L			42921	135349	2	Standard
>	**Sc**	**45**		ug/L			850595	836053	0	Standard
	V	**51**	**-0.007**	ug/L	0.011	154	7786	7406	4	Standard
	V-1	**51**	**0.028**	ug/L	0.000	1	362	1285	1	Standard
	Cr	**52**	**6.854**	ug/L	0.144	2	22890	211513	1	Standard
	Cr	**53**	**6.752**	ug/L	0.124	1	212	21943	1	Standard
	Fe	**54**	**260.709**	ug/L	4.245	1	90788	787929	0	Standard
	Fe	**57**	**289.057**	ug/L	4.536	1	21922	337190	0	Standard
	Mn	**55**	**5.524**	ug/L	0.091	1	774	235065	0	Standard
>	**Ge**	**72**		ug/L			48940	48339	0	KED
	Ni	**60**	**0.671**	ug/L	0.023	3	80	1222	3	KED
	Ni	**62**	**0.636**	ug/L	0.041	6	16	194	6	KED
	Cu	**63**	**0.387**	ug/L	0.024	6	137	2021	6	KED
	Cu	**65**	**0.385**	ug/L	0.003	0	67	1029	1	KED
	Zn	**66**	**3.876**	ug/L	0.033	0	85	2602	1	KED
	Zn	**67**	**3.472**	ug/L	0.128	3	17	398	4	KED
	As	**75**	**0.046**	ug/L	0.003	6	5	20	5	KED
	Y	**89**		ug/L			438010	420697	0	Standard
	Kr	**83**		ug/L			58	48	32	Standard
>	**In-1**	**115**		ug/L			11681	11044	0	KED
	Cd	**111**	**0.020**	ug/L	0.003	13	5	12	7	KED
	Cd	**114**	**0.018**	ug/L	0.002	12	6	21	8	KED
>	**In**	**115**		ug/L			671207	660375	1	Standard
	Ag	**107**	**0.002**	ug/L	0.002	65	227	273	12	Standard
>	**Tb**	**159**		ug/L			1536215	1516832	1	Standard
	Tl	**205**	**0.000**	ug/L	0.001	1234	715	709	5	Standard
	Pb	**208**	**0.018**	ug/L	0.001	3	628	2297	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0637-01
Sample Dil Factor: 10
Comments:
Sample Date/Time: Monday, May 01, 2023 17:40:52
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			984787	991058	0	Standard
	Be	**9**	**0.007**	ug/L	0.004	54	3	58	51	Standard
	C	**13**		ug/L			42921	60824	2	Standard
>	**Sc**	**45**		ug/L			850595	841290	0	Standard
	V	**51**	**-0.007**	ug/L	0.063	883	7786	7469	28	Standard
	V-1	**51**	**0.333**	ug/L	0.008	2	362	11508	1	Standard
	Cr	**52**	**11.708**	ug/L	0.074	0	22890	347557	0	Standard
	Cr	**53**	**12.458**	ug/L	0.300	2	212	40565	1	Standard
	Fe	**54**	**30.934**	ug/L	2.604	8	90788	173203	3	Standard
	Fe	**57**	**26.211**	ug/L	0.948	3	21922	50482	1	Standard
	Mn	**55**	**0.565**	ug/L	0.009	1	774	24865	1	Standard
>	**Ge**	**72**		ug/L			48940	48082	0	KED
	Ni	**60**	**1.236**	ug/L	0.034	2	80	2172	2	KED
	Ni	**62**	**1.156**	ug/L	0.041	3	16	337	3	KED
	Cu	**63**	**3.559**	ug/L	0.034	0	137	17364	0	KED
	Cu	**65**	**3.549**	ug/L	0.075	2	67	8898	2	KED
	Zn	**66**	**7.589**	ug/L	0.313	4	85	4986	3	KED
	Zn	**67**	**6.895**	ug/L	0.306	4	17	770	4	KED
	As	**75**	**0.037**	ug/L	0.005	13	5	17	10	KED
	Y	**89**		ug/L			438010	407210	0	Standard
	Kr	**83**		ug/L			58	67	14	Standard
>	**In-1**	**115**		ug/L			11681	10374	3	KED
	Cd	**111**	**0.244**	ug/L	0.040	16	5	83	15	KED
	Cd	**114**	**0.293**	ug/L	0.023	7	6	248	5	KED
>	**In**	**115**		ug/L			671207	644318	0	Standard
	Ag	**107**	**0.010**	ug/L	0.012	118	227	434	58	Standard
>	**Tb**	**159**		ug/L			1536215	1501788	0	Standard
	Tl	**205**	**0.004**	ug/L	0.010	218	715	1020	68	Standard
	Pb	**208**	**0.108**	ug/L	0.010	9	628	10475	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0508-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, May 01, 2023 17:45:39
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			984787	1066909	1	Standard
⌊	**Be**	**9**	**0.001**	ug/L	0.001	82	3	9	52	Standard
	C	**13**		ug/L			42921	545992	1	Standard
⌈>	**Sc**	**45**		ug/L			850595	789173	0	Standard
⌈	**V**	**51**	**0.273**	ug/L	0.009	3	7786	15726	2	Standard
⌈	**V-1**	**51**	**0.117**	ug/L	0.003	2	362	4018	2	Standard
⌈	**Cr**	**52**	**1.493**	ug/L	0.003	0	22890	60099	0	Standard
⌈	**Cr**	**53**	**0.938**	ug/L	0.019	2	212	3046	1	Standard
⌈	**Fe**	**54**	**858.335**	ug/L	14.043	1	90788	2255778	2	Standard
⌈	**Fe**	**57**	**1182.209**	ug/L	15.625	1	21922	1238946	1	Standard
⌊	**Mn**	**55**	**7.749**	ug/L	0.073	0	774	310999	0	Standard
⌈>	**Ge**	**72**		ug/L			48940	42183	1	KED
⌈	**Ni**	**60**	**2.620**	ug/L	0.136	5	80	3963	3	KED
⌈	**Ni**	**62**	**2.575**	ug/L	0.046	1	16	642	0	KED
⌈	**Cu**	**63**	**3.636**	ug/L	0.134	3	137	15555	3	KED
⌈	**Cu**	**65**	**3.629**	ug/L	0.074	2	67	7979	2	KED
⌈	**Zn**	**66**	**4.558**	ug/L	0.190	4	85	2658	5	KED
⌈	**Zn**	**67**	**4.724**	ug/L	0.271	5	17	467	5	KED
⌊	**As**	**75**	**0.124**	ug/L	0.018	14	5	41	11	KED
	Y	**89**		ug/L			438010	404891	2	Standard
	Kr	**83**		ug/L			58	64	19	Standard
⌈>	**In-1**	**115**		ug/L			11681	9855	2	KED
⌈	**Cd**	**111**	**0.111**	ug/L	0.016	14	5	38	11	KED
⌊	**Cd**	**114**	**0.104**	ug/L	0.011	10	6	87	12	KED
⌈>	**In**	**115**		ug/L			671207	606689	0	Standard
⌊	**Ag**	**107**	**-0.002**	ug/L	0.001	68	227	166	15	Standard
⌈>	**Tb**	**159**		ug/L			1536215	1530136	1	Standard
⌈	**Tl**	**205**	**-0.001**	ug/L	0.001	35	715	608	7	Standard
⌊	**Pb**	**208**	**0.032**	ug/L	0.001	2	628	3614	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0678-09
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 01, 2023 17:50:43
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			984787	1023725	1	Standard
	Be	**9**	**0.003**	ug/L	0.001	46	3	24	39	Standard
	C	**13**		ug/L			42921	112047	1	Standard
>	**Sc**	**45**		ug/L			850595	996000	1	Standard
	V	**51**	**0.421**	ug/L	0.014	3	7786	25633	1	Standard
	V-1	**51**	**0.626**	ug/L	0.013	2	362	25223	0	Standard
	Cr	**52**	**0.348**	ug/L	0.012	3	22890	38228	0	Standard
	Cr	**53**	**1.027**	ug/L	0.013	1	212	4188	0	Standard
	Fe	**54**	**4327.273**	ug/L	73.664	1	90788	13924686	3	Standard
	Fe	**57**	**4454.814**	ug/L	89.189	2	21922	5822381	3	Standard
	Mn	**55**	**460.473**	ug/L	5.058	1	774	23270104	1	Standard
>	**Ge**	**72**		ug/L			48940	42541	1	KED
	Ni	**60**	**0.913**	ug/L	0.012	1	80	1438	1	KED
	Ni	**62**	**0.902**	ug/L	0.054	6	16	236	4	KED
	Cu	**63**	**0.434**	ug/L	0.019	4	137	1977	2	KED
	Cu	**65**	**0.431**	ug/L	0.029	6	67	1007	5	KED
	Zn	**66**	**1.787**	ug/L	0.043	2	85	1095	3	KED
	Zn	**67**	**5.295**	ug/L	0.251	4	17	526	3	KED
	As	**75**	**0.529**	ug/L	0.045	8	5	165	8	KED
	Y	**89**		ug/L			438010	403589	1	Standard
	Kr	**83**		ug/L			58	89	9	Standard
>	**In-1**	**115**		ug/L			11681	9789	0	KED
	Cd	**111**	**0.004**	ug/L	0.013	320	5	6	65	KED
	Cd	**114**	**0.001**	ug/L	0.002	218	6	5	32	KED
>	**In**	**115**		ug/L			671207	612244	2	Standard
	Ag	**107**	**0.020**	ug/L	0.001	7	227	602	3	Standard
>	**Tb**	**159**		ug/L			1536215	1503722	0	Standard
	Tl	**205**	**-0.002**	ug/L	0.000	16	715	563	3	Standard
	Pb	**208**	**0.037**	ug/L	0.002	5	628	4011	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0678-08
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 01, 2023 17:55:59
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			984787	1024265	0	Standard
	Be	**9**	**0.004**	ug/L	0.000	7	3	31	6	Standard
	C	**13**		ug/L			42921	105871	0	Standard
>	**Sc**	**45**		ug/L			850595	997136	1	Standard
	V	**51**	**0.604**	ug/L	0.017	2	7786	32853	1	Standard
	V-1	**51**	**0.787**	ug/L	0.019	2	362	31653	1	Standard
	Cr	**52**	**0.423**	ug/L	0.010	2	22890	40742	1	Standard
	Cr	**53**	**1.034**	ug/L	0.021	2	212	4219	0	Standard
	Fe	**54**	**4365.795**	ug/L	16.899	0	90788	14061352	1	Standard
	Fe	**57**	**4560.310**	ug/L	18.180	0	21922	5965176	1	Standard
	Mn	**55**	**452.150**	ug/L	5.463	1	774	22877831	2	Standard
>	**Ge**	**72**		ug/L			48940	43191	0	KED
	Ni	**60**	**0.870**	ug/L	0.049	5	80	1395	5	KED
	Ni	**62**	**0.915**	ug/L	0.068	7	16	243	6	KED
	Cu	**63**	**0.540**	ug/L	0.010	1	137	2471	1	KED
	Cu	**65**	**0.537**	ug/L	0.008	1	67	1259	1	KED
	Zn	**66**	**4.513**	ug/L	0.107	2	85	2694	2	KED
	Zn	**67**	**8.048**	ug/L	0.274	3	17	805	3	KED
	As	**75**	**0.740**	ug/L	0.050	6	5	233	6	KED
	Y	**89**		ug/L			438010	397246	3	Standard
	Kr	**83**		ug/L			58	90	12	Standard
>	**In-1**	**115**		ug/L			11681	9914	2	KED
	Cd	**111**	**0.025**	ug/L	0.017	67	5	12	42	KED
	Cd	**114**	**0.017**	ug/L	0.008	46	6	18	34	KED
>	**In**	**115**		ug/L			671207	602174	0	Standard
	Ag	**107**	**0.019**	ug/L	0.000	2	227	573	1	Standard
>	**Tb**	**159**		ug/L			1536215	1513952	1	Standard
	Tl	**205**	**-0.002**	ug/L	0.000	8	715	553	0	Standard
	Pb	**208**	**0.327**	ug/L	0.002	0	628	30865	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL3
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 01, 2023 18:00:44
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			984787	1065082	2	Standard
⌊	**Be**	**9**	**-0.000**	ug/L	0.000	369	3	3	34	Standard
	C	**13**		ug/L			42921	53705	1	Standard
⌈>	**Sc**	**45**		ug/L			850595	823472	1	Standard
⎢	**V**	**51**	**0.001**	ug/L	0.003	314	7786	7566	1	Standard
⎢	**V-1**	**51**	**0.020**	ug/L	0.002	9	362	990	4	Standard
⎢	**Cr**	**52**	**0.003**	ug/L	0.006	203	22890	22237	1	Standard
⎢	**Cr**	**53**	**0.064**	ug/L	0.007	10	212	409	3	Standard
⎢	**Fe**	**54**	**2.176**	ug/L	0.492	22	90788	93635	1	Standard
⎢	**Fe**	**57**	**-2.157**	ug/L	0.400	18	21922	18906	3	Standard
⌊	**Mn**	**55**	**0.035**	ug/L	0.015	43	774	2208	29	Standard
⌈>	**Ge**	**72**		ug/L			48940	48050	1	KED
⎢	**Ni**	**60**	**0.065**	ug/L	0.004	6	80	189	2	KED
⎢	**Ni**	**62**	**0.067**	ug/L	0.028	42	16	34	22	KED
⎢	**Cu**	**63**	**0.028**	ug/L	0.001	4	137	271	0	KED
⎢	**Cu**	**65**	**0.028**	ug/L	0.007	23	67	136	11	KED
⎢	**Zn**	**66**	**0.419**	ug/L	0.038	8	85	354	7	KED
⎢	**Zn**	**67**	**0.492**	ug/L	0.156	31	17	70	23	KED
⌊	**As**	**75**	**-0.004**	ug/L	0.002	48	5	3	20	KED
	Y	**89**		ug/L			438010	405919	1	Standard
	Kr	**83**		ug/L			58	50	5	Standard
⌈>	**In-1**	**115**		ug/L			11681	10837	2	KED
⎢	**Cd**	**111**	**-0.006**	ug/L	0.004	64	5	3	45	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.004	184	6	7	44	KED
⌈>	**In**	**115**		ug/L			671207	665568	0	Standard
⌊	**Ag**	**107**	**-0.003**	ug/L	0.000	14	227	161	5	Standard
⌈>	**Tb**	**159**		ug/L			1536215	1500566	0	Standard
⎢	**Tl**	**205**	**-0.002**	ug/L	0.000	8	715	526	3	Standard
⌊	**Pb**	**208**	**0.011**	ug/L	0.001	7	628	1611	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV3
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 01, 2023 18:05:29
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			984787	1059909	1	Standard
⌊	**Be**	**9**	**47.804**	ug/L	1.608	3	3	386411	1	Standard
	C	**13**		ug/L			42921	45187	0	Standard
⌈>	**Sc**	**45**		ug/L			850595	823319	1	Standard
⎢	**V**	**51**	**47.698**	ug/L	0.239	0	7786	1555087	1	Standard
⎢	**V-1**	**51**	**47.671**	ug/L	0.371	0	362	1562058	1	Standard
⎢	**Cr**	**52**	**49.002**	ug/L	0.317	0	22890	1353002	1	Standard
⎢	**Cr**	**53**	**48.868**	ug/L	0.560	1	212	155118	1	Standard
⎢	**Fe**	**54**	**5061.994**	ug/L	38.571	0	90788	13447128	0	Standard
⎢	**Fe**	**57**	**5051.712**	ug/L	72.525	1	21922	5453130	0	Standard
⌊	**Mn**	**55**	**50.469**	ug/L	0.490	0	774	2108923	1	Standard
⌈>	**Ge**	**72**		ug/L			48940	47567	1	KED
⎢	**Ni**	**60**	**51.668**	ug/L	1.078	2	80	86688	0	KED
⎢	**Ni**	**62**	**51.561**	ug/L	1.799	3	16	14198	1	KED
⎢	**Cu**	**63**	**52.039**	ug/L	1.997	3	137	249219	2	KED
⎢	**Cu**	**65**	**52.748**	ug/L	1.257	2	67	129875	0	KED
⎢	**Zn**	**66**	**52.340**	ug/L	0.703	1	85	33529	0	KED
⎢	**Zn**	**67**	**51.417**	ug/L	1.595	3	17	5576	1	KED
⌊	**As**	**75**	**49.886**	ug/L	1.209	2	5	16994	0	KED
	Y	**89**		ug/L			438010	414503	0	Standard
	Kr	**83**		ug/L			58	57	20	Standard
⌈>	**In-1**	**115**		ug/L			11681	10696	0	KED
⎢	**Cd**	**111**	**52.155**	ug/L	0.713	1	5	17291	1	KED
⌊	**Cd**	**114**	**51.499**	ug/L	0.115	0	6	44119	1	KED
⌈>	**In**	**115**		ug/L			671207	654527	0	Standard
⌊	**Ag**	**107**	**49.623**	ug/L	1.149	2	227	1065636	1	Standard
⌈>	**Tb**	**159**		ug/L			1536215	1534820	0	Standard
⎢	**Tl**	**205**	**52.342**	ug/L	0.183	0	715	3825268	0	Standard
⌊	**Pb**	**208**	**52.224**	ug/L	0.422	0	628	4894279	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB3
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 01, 2023 18:12:58
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			984787	1060394	3	Standard
⌊	**Be**	**9**	**-0.000**	ug/L	0.000	1407	3	3	91	Standard
	C	**13**		ug/L			42921	44311	0	Standard
⌈>	**Sc**	**45**		ug/L			850595	808653	1	Standard
⎢	**V**	**51**	**-0.007**	ug/L	0.003	48	7786	7194	2	Standard
⎢	**V-1**	**51**	**0.005**	ug/L	0.001	18	362	494	5	Standard
⎢	**Cr**	**52**	**-0.030**	ug/L	0.004	14	22890	20975	1	Standard
⎢	**Cr**	**53**	**0.008**	ug/L	0.007	83	212	227	8	Standard
⎢	**Fe**	**54**	**0.513**	ug/L	0.205	40	90788	87638	0	Standard
⎢	**Fe**	**57**	**-1.575**	ug/L	0.337	21	21922	19179	2	Standard
⌊	**Mn**	**55**	**-0.000**	ug/L	0.000	86	774	718	2	Standard
⌈>	**Ge**	**72**		ug/L			48940	48095	2	KED
⎢	**Ni**	**60**	**-0.022**	ug/L	0.003	13	80	40	11	KED
⎢	**Ni**	**62**	**-0.022**	ug/L	0.009	39	16	10	21	KED
⎢	**Cu**	**63**	**-0.000**	ug/L	0.001	336	137	134	4	KED
⎢	**Cu**	**65**	**-0.002**	ug/L	0.003	109	67	60	12	KED
⎢	**Zn**	**66**	**0.045**	ug/L	0.014	31	85	113	7	KED
⎢	**Zn**	**67**	**0.032**	ug/L	0.053	164	17	20	27	KED
⌊	**As**	**75**	**0.004**	ug/L	0.007	172	5	6	41	KED
	Y	**89**		ug/L			438010	395858	0	Standard
	Kr	**83**		ug/L			58	64	8	Standard
⌈>	**In-1**	**115**		ug/L			11681	11093	1	KED
⎢	**Cd**	**111**	**-0.003**	ug/L	0.006	214	5	4	49	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.003	371	6	4	59	KED
⌈>	**In**	**115**		ug/L			671207	642552	1	Standard
⌊	**Ag**	**107**	**-0.002**	ug/L	0.001	44	227	177	9	Standard
⌈>	**Tb**	**159**		ug/L			1536215	1488394	1	Standard
⎢	**Tl**	**205**	**-0.000**	ug/L	0.001	236	715	674	6	Standard
⌊	**Pb**	**208**	**-0.000**	ug/L	0.000	177	628	587	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0296-BLK2
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 01, 2023 18:18:14
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			984787	1057489	2	Standard
	Be	**9**	**0.002**	ug/L	0.002	93	3	21	79	Standard
	C	**13**		ug/L			42921	84995	2	Standard
>	**Sc**	**45**		ug/L			850595	835517	1	Standard
	V	**51**	**0.011**	ug/L	0.006	51	7786	8014	1	Standard
	V-1	**51**	**0.009**	ug/L	0.002	24	362	643	10	Standard
	Cr	**52**	**0.075**	ug/L	0.013	17	22890	24538	1	Standard
	Cr	**53**	**0.064**	ug/L	0.003	4	212	415	3	Standard
	Fe	**54**	**5.121**	ug/L	0.534	10	90788	102890	1	Standard
	Fe	**57**	**2.897**	ug/L	0.350	12	21922	24693	1	Standard
	Mn	**55**	**0.061**	ug/L	0.015	24	774	3332	17	Standard
>	**Ge**	**72**		ug/L			48940	47810	0	KED
	Ni	**60**	**-0.033**	ug/L	0.003	9	80	22	22	KED
	Ni	**62**	**-0.042**	ug/L	0.004	9	16	4	24	KED
	Cu	**63**	**0.020**	ug/L	0.004	21	137	231	9	KED
	Cu	**65**	**0.022**	ug/L	0.006	29	67	120	13	KED
	Zn	**66**	**0.084**	ug/L	0.029	34	85	137	14	KED
	Zn	**67**	**0.103**	ug/L	0.019	18	17	27	7	KED
	As	**75**	**-0.001**	ug/L	0.001	243	5	4	10	KED
	Y	**89**		ug/L			438010	410503	2	Standard
	Kr	**83**		ug/L			58	56	16	Standard
>	**In-1**	**115**		ug/L			11681	11086	1	KED
	Cd	**111**	**-0.011**	ug/L	0.002	13	5	1	34	KED
	Cd	**114**	**-0.002**	ug/L	0.002	92	6	3	57	KED
>	**In**	**115**		ug/L			671207	664954	2	Standard
	Ag	**107**	**-0.002**	ug/L	0.003	137	227	176	40	Standard
>	**Tb**	**159**		ug/L			1536215	1506347	0	Standard
	Tl	**205**	**0.002**	ug/L	0.004	231	715	811	31	Standard
	Pb	**208**	**0.002**	ug/L	0.004	199	628	787	43	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0296-BS2
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 01, 2023 18:22:58
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			984787	1059028	0	Standard
	Be	**9**	**24.614**	ug/L	0.174	0	3	198874	0	Standard
	C	**13**		ug/L			42921	87360	1	Standard
>	**Sc**	**45**		ug/L			850595	821442	1	Standard
	V	**51**	**25.560**	ug/L	0.236	0	7786	834863	0	Standard
	V-1	**51**	**25.387**	ug/L	0.328	1	362	830093	0	Standard
	Cr	**52**	**25.699**	ug/L	0.428	1	22890	718559	2	Standard
	Cr	**53**	**25.125**	ug/L	0.189	0	212	79672	1	Standard
	Fe	**54**	**1.987**	ug/L	0.232	11	90788	92907	1	Standard
	Fe	**57**	**-1.989**	ug/L	0.490	24	21922	19035	2	Standard
	Mn	**55**	**26.084**	ug/L	0.034	0	774	1087895	1	Standard
>	**Ge**	**72**		ug/L			48940	48618	2	KED
	Ni	**60**	**26.879**	ug/L	0.381	1	80	46135	0	KED
	Ni	**62**	**27.389**	ug/L	0.838	3	16	7718	2	KED
	Cu	**63**	**28.183**	ug/L	0.763	2	137	138030	0	KED
	Cu	**65**	**27.872**	ug/L	0.743	2	67	70168	0	KED
	Zn	**66**	**87.431**	ug/L	2.267	2	85	57183	1	KED
	Zn	**67**	**82.398**	ug/L	0.862	1	17	9127	2	KED
	As	**75**	**25.558**	ug/L	0.452	1	5	8902	1	KED
	Y	**89**		ug/L			438010	403203	1	Standard
	Kr	**83**		ug/L			58	55	6	Standard
>	**In-1**	**115**		ug/L			11681	10905	1	KED
	Cd	**111**	**27.268**	ug/L	0.478	1	5	9218	0	KED
	Cd	**114**	**26.981**	ug/L	0.530	1	6	23563	0	KED
>	**In**	**115**		ug/L			671207	662164	1	Standard
	Ag	**107**	**26.608**	ug/L	0.296	1	227	578265	3	Standard
>	**Tb**	**159**		ug/L			1536215	1514045	0	Standard
	Tl	**205**	**26.648**	ug/L	0.340	1	715	1921473	1	Standard
	Pb	**208**	**27.169**	ug/L	0.145	0	628	2512050	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0439-BLK2
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 01, 2023 18:27:42
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			984787	1057481	1	Standard
	Be	**9**	**0.001**	ug/L	0.001	114	3	10	75	Standard
	C	**13**		ug/L			42921	70672	0	Standard
>	**Sc**	**45**		ug/L			850595	823716	1	Standard
	V	**51**	**0.018**	ug/L	0.002	13	7786	8135	2	Standard
	V-1	**51**	**0.017**	ug/L	0.003	16	362	912	10	Standard
	Cr	**52**	**0.142**	ug/L	0.012	8	22890	26039	2	Standard
	Cr	**53**	**0.135**	ug/L	0.004	2	212	632	2	Standard
	Fe	**54**	**4.114**	ug/L	1.240	30	90788	98749	1	Standard
	Fe	**57**	**-0.078**	ug/L	0.314	400	21922	21142	1	Standard
	Mn	**55**	**0.060**	ug/L	0.003	4	774	3263	1	Standard
>	**Ge**	**72**		ug/L			48940	47483	0	KED
	Ni	**60**	**0.064**	ug/L	0.010	16	80	185	9	KED
	Ni	**62**	**0.053**	ug/L	0.043	80	16	30	37	KED
	Cu	**63**	**0.087**	ug/L	0.002	2	137	549	2	KED
	Cu	**65**	**0.096**	ug/L	0.010	9	67	302	8	KED
	Zn	**66**	**0.238**	ug/L	0.031	13	85	234	7	KED
	Zn	**67**	**0.234**	ug/L	0.170	72	17	41	43	KED
	As	**75**	**-0.003**	ug/L	0.004	156	5	3	36	KED
	Y	**89**		ug/L			438010	407918	2	Standard
	Kr	**83**		ug/L			58	49	16	Standard
>	**In-1**	**115**		ug/L			11681	11180	2	KED
	Cd	**111**	**-0.005**	ug/L	0.007	158	5	3	66	KED
	Cd	**114**	**-0.003**	ug/L	0.004	141	6	3	95	KED
>	**In**	**115**		ug/L			671207	667498	1	Standard
	Ag	**107**	**-0.000**	ug/L	0.001	312	227	221	6	Standard
>	**Tb**	**159**		ug/L			1536215	1508797	1	Standard
	Tl	**205**	**-0.000**	ug/L	0.001	820	715	695	8	Standard
	Pb	**208**	**0.007**	ug/L	0.000	3	628	1244	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0439-BS2
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 01, 2023 18:32:26
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			984787	1045964	4	Standard
	Be	**9**	**24.369**	ug/L	1.165	4	3	194228	1	Standard
	C	**13**		ug/L			42921	69095	1	Standard
>	**Sc**	**45**		ug/L			850595	834044	1	Standard
	V	**51**	**24.647**	ug/L	0.293	1	7786	817686	0	Standard
	V-1	**51**	**24.719**	ug/L	0.427	1	362	820653	0	Standard
	Cr	**52**	**24.688**	ug/L	0.345	1	22890	701731	1	Standard
	Cr	**53**	**24.925**	ug/L	0.544	2	212	80244	1	Standard
	Fe	**54**	**5128.630**	ug/L	129.215	2	90788	13799366	1	Standard
	Fe	**57**	**5163.339**	ug/L	51.014	0	21922	5646997	2	Standard
	Mn	**55**	**25.270**	ug/L	0.393	1	774	1070125	1	Standard
>	**Ge**	**72**		ug/L			48940	47245	0	KED
	Ni	**60**	**26.269**	ug/L	0.022	0	80	43825	0	KED
	Ni	**62**	**26.066**	ug/L	0.156	0	16	7140	1	KED
	Cu	**63**	**26.511**	ug/L	0.056	0	137	126226	0	KED
	Cu	**65**	**26.412**	ug/L	0.701	2	67	64636	2	KED
	Zn	**66**	**85.725**	ug/L	1.592	1	85	54498	1	KED
	Zn	**67**	**79.772**	ug/L	1.112	1	17	8587	1	KED
	As	**75**	**25.404**	ug/L	0.242	0	5	8600	0	KED
	Y	**89**		ug/L			438010	405432	2	Standard
	Kr	**83**		ug/L			58	68	26	Standard
>	**In-1**	**115**		ug/L			11681	10953	1	KED
	Cd	**111**	**26.194**	ug/L	0.602	2	5	8893	0	KED
	Cd	**114**	**25.717**	ug/L	0.623	2	6	22558	1	KED
>	**In**	**115**		ug/L			671207	644763	1	Standard
	Ag	**107**	**25.194**	ug/L	0.612	2	227	533002	1	Standard
>	**Tb**	**159**		ug/L			1536215	1519798	0	Standard
	Tl	**205**	**25.239**	ug/L	0.252	0	715	1826877	1	Standard
	Pb	**208**	**25.537**	ug/L	0.092	0	628	2370159	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0732-01
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 01, 2023 18:37:55
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			984787	1047256	1	Standard
	Be	**9**	**0.010**	ug/L	0.001	7	3	80	7	Standard
	C	**13**		ug/L			42921	77011	1	Standard
>	**Sc**	**45**		ug/L			850595	827530	1	Standard
	V	**51**	**2.588**	ug/L	0.083	3	7786	91954	2	Standard
	V-1	**51**	**2.688**	ug/L	0.064	2	362	88850	2	Standard
	Cr	**52**	**0.427**	ug/L	0.060	13	22890	33934	5	Standard
	Cr	**53**	**0.827**	ug/L	0.015	1	212	2841	1	Standard
	Fe	**54**	**37.733**	ug/L	0.104	0	90788	188425	1	Standard
	Fe	**57**	**440.832**	ug/L	4.743	1	21922	497824	1	Standard
	Mn	**55**	**9.937**	ug/L	0.237	2	774	417908	1	Standard
>	**Ge**	**72**		ug/L			48940	40120	0	KED
	Ni	**60**	**0.753**	ug/L	0.045	5	80	1130	5	KED
	Ni	**62**	**0.623**	ug/L	0.090	14	16	158	12	KED
	Cu	**63**	**1.309**	ug/L	0.022	1	137	5400	1	KED
	Cu	**65**	**1.270**	ug/L	0.029	2	67	2692	1	KED
	Zn	**66**	**2.086**	ug/L	0.090	4	85	1194	4	KED
	Zn	**67**	**2.336**	ug/L	0.195	8	17	227	8	KED
	As	**75**	**1.459**	ug/L	0.081	5	5	423	5	KED
	Y	**89**		ug/L			438010	389828	0	Standard
	Kr	**83**		ug/L			58	71	9	Standard
>	**In-1**	**115**		ug/L			11681	9333	0	KED
	Cd	**111**	**0.030**	ug/L	0.009	29	5	13	18	KED
	Cd	**114**	**0.026**	ug/L	0.008	32	6	23	25	KED
>	**In**	**115**		ug/L			671207	573111	1	Standard
	Ag	**107**	**0.000**	ug/L	0.000	100	227	201	5	Standard
>	**Tb**	**159**		ug/L			1536215	1470837	1	Standard
	Tl	**205**	**0.059**	ug/L	0.001	2	715	4838	2	Standard
	Pb	**208**	**0.168**	ug/L	0.002	1	628	15697	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0690-01
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, May 01, 2023 18:43:49
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			984787	1115536	1	Standard
	Be	9	-0.000	ug/L	0.000	115	3	1	100	Standard
	C	13		ug/L			42921	52408	0	Standard
>	Sc	45		ug/L			850595	818462	0	Standard
	V	51	0.561	ug/L	0.014	2	7786	25584	1	Standard
	V-1	51	0.872	ug/L	0.010	1	362	28754	1	Standard
	Cr	52	0.039	ug/L	0.006	15	22890	23079	0	Standard
	Cr	53	1.084	ug/L	0.013	1	212	3621	1	Standard
	Fe	54	-0.352	ug/L	0.363	102	90788	86432	1	Standard
	Fe	57	2.146	ug/L	0.318	14	21922	23388	1	Standard
	Mn	55	0.008	ug/L	0.000	4	774	1072	1	Standard
>	Ge	72		ug/L			48940	44711	1	KED
	Ni	60	-0.030	ug/L	0.004	12	80	25	24	KED
	Ni	62	-0.036	ug/L	0.008	21	16	5	33	KED
	Cu	63	0.010	ug/L	0.005	52	137	169	12	KED
	Cu	65	0.006	ug/L	0.005	84	67	76	16	KED
	Zn	66	0.172	ug/L	0.022	12	85	181	5	KED
	Zn	67	0.108	ug/L	0.004	4	17	26	0	KED
	As	75	1.258	ug/L	0.007	0	5	407	1	KED
	Y	89		ug/L			438010	403889	0	Standard
	Kr	83		ug/L			58	59	13	Standard
>	In-1	115		ug/L			11681	10041	2	KED
	Cd	111	-0.004	ug/L	0.008	211	5	3	66	KED
	Cd	114	-0.000	ug/L	0.003	938	6	4	56	KED
>	In	115		ug/L			671207	641184	0	Standard
	Ag	107	-0.005	ug/L	0.001	16	227	114	15	Standard
>	Tb	159		ug/L			1536215	1523757	0	Standard
	Tl	205	-0.002	ug/L	0.001	37	715	560	10	Standard
	Pb	208	-0.002	ug/L	0.000	25	628	478	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0292-DUP2
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, May 01, 2023 18:49:13
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			984787	1081045	1	Standard
	Be	9	0.000	ug/L	0.000	1077	3	3	86	Standard
	C	13		ug/L			42921	53608	0	Standard
>	Sc	45		ug/L			850595	806801	1	Standard
	V	51	0.578	ug/L	0.006	1	7786	25768	0	Standard
	V-1	51	0.898	ug/L	0.017	1	362	29166	0	Standard
	Cr	52	0.066	ug/L	0.007	11	22890	23472	1	Standard
	Cr	53	1.139	ug/L	0.041	3	212	3739	2	Standard
	Fe	54	0.041	ug/L	1.114	2720	90788	86192	1	Standard
	Fe	57	3.067	ug/L	0.195	6	21922	24024	1	Standard
	Mn	55	0.006	ug/L	0.000	6	774	960	1	Standard
>	Ge	72		ug/L			48940	43709	2	KED
	Ni	60	-0.038	ug/L	0.003	8	80	13	37	KED
	Ni	62	-0.031	ug/L	0.016	52	16	6	56	KED
	Cu	63	0.001	ug/L	0.007	750	137	126	23	KED
	Cu	65	0.007	ug/L	0.005	74	67	77	18	KED
	Zn	66	-0.033	ug/L	0.010	29	85	57	12	KED
	Zn	67	-0.001	ug/L	0.033	4180	17	15	21	KED
	As	75	1.357	ug/L	0.062	4	5	429	4	KED
	Y	89		ug/L			438010	409761	1	Standard
	Kr	83		ug/L			58	57	6	Standard
>	In-1	115		ug/L			11681	9853	2	KED
	Cd	111	-0.005	ug/L	0.006	115	5	3	62	KED
	Cd	114	-0.000	ug/L	0.002	1343	6	4	24	KED
>	In	115		ug/L			671207	643240	2	Standard
	Ag	107	-0.005	ug/L	0.001	13	227	113	13	Standard
>	Tb	159		ug/L			1536215	1510932	1	Standard
	Tl	205	-0.003	ug/L	0.001	25	715	511	9	Standard
	Pb	208	-0.004	ug/L	0.000	7	628	281	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0292-MS2
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, May 01, 2023 18:53:57
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			984787	1057450	2	Standard
	Be	9	1.244	ug/L	0.044	3	3	10032	2	Standard
	C	13		ug/L			42921	53202	0	Standard
>	Sc	45		ug/L			850595	808314	1	Standard
	V	51	1.734	ug/L	0.046	2	7786	62612	1	Standard
	V-1	51	2.077	ug/L	0.042	2	362	67136	1	Standard
	Cr	52	1.240	ug/L	0.014	1	22890	54813	1	Standard
	Cr	53	2.390	ug/L	0.042	1	212	7640	1	Standard
	Fe	54	256.095	ug/L	2.909	1	90788	749795	0	Standard
	Fe	57	245.524	ug/L	5.652	2	21922	280064	2	Standard
	Mn	55	1.229	ug/L	0.028	2	774	51136	1	Standard
>	Ge	72		ug/L			48940	43890	0	KED
	Ni	60	1.351	ug/L	0.033	2	80	2162	2	KED
	Ni	62	1.417	ug/L	0.078	5	16	374	4	KED
	Cu	63	1.420	ug/L	0.028	1	137	6398	1	KED
	Cu	65	1.421	ug/L	0.048	3	67	3287	3	KED
	Zn	66	4.492	ug/L	0.211	4	85	2725	4	KED
	Zn	67	4.170	ug/L	0.367	8	17	431	8	KED
	As	75	2.586	ug/L	0.059	2	5	817	2	KED
	Y	89		ug/L			438010	407616	0	Standard
	Kr	83		ug/L			58	67	19	Standard
>	In-1	115		ug/L			11681	9705	1	KED
	Cd	111	1.298	ug/L	0.088	6	5	394	5	KED
	Cd	114	1.344	ug/L	0.029	2	6	1049	2	KED
>	In	115		ug/L			671207	634343	2	Standard
	Ag	107	1.246	ug/L	0.016	1	227	26144	1	Standard
>	Tb	159		ug/L			1536215	1533957	1	Standard
	Tl	205	1.304	ug/L	0.018	1	715	95898	0	Standard
	Pb	208	1.323	ug/L	0.009	0	628	124540	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0292-MSD2
Sample Dil Factor: 20
Comments:
Sample Date/Time: Monday, May 01, 2023 18:58:35
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			984787	1045825	1	Standard
	Be	9	1.234	ug/L	0.013	1	3	9845	0	Standard
	C	13		ug/L			42921	53997	0	Standard
>	Sc	45		ug/L			850595	791565	0	Standard
	V	51	1.790	ug/L	0.033	1	7786	63091	1	Standard
	V-1	51	2.135	ug/L	0.036	1	362	67587	0	Standard
	Cr	52	1.290	ug/L	0.040	3	22890	54992	2	Standard
	Cr	53	2.446	ug/L	0.025	1	212	7652	0	Standard
	Fe	54	260.061	ug/L	3.492	1	90788	744434	1	Standard
	Fe	57	252.318	ug/L	4.459	1	21922	281262	0	Standard
	Mn	55	1.256	ug/L	0.007	0	774	51173	0	Standard
>	Ge	72		ug/L			48940	44002	1	KED
	Ni	60	1.428	ug/L	0.033	2	80	2286	2	KED
	Ni	62	1.317	ug/L	0.072	5	16	349	3	KED
	Cu	63	1.434	ug/L	0.055	3	137	6475	2	KED
	Cu	65	1.384	ug/L	0.029	2	67	3213	3	KED
	Zn	66	4.350	ug/L	0.084	1	85	2648	0	KED
	Zn	67	4.472	ug/L	0.100	2	17	462	1	KED
	As	75	2.614	ug/L	0.079	3	5	828	4	KED
	Y	89		ug/L			438010	400966	3	Standard
	Kr	83		ug/L			58	58	13	Standard
>	In-1	115		ug/L			11681	9879	1	KED
	Cd	111	1.369	ug/L	0.110	8	5	423	7	KED
	Cd	114	1.366	ug/L	0.066	4	6	1085	3	KED
>	In	115		ug/L			671207	625994	1	Standard
	Ag	107	1.273	ug/L	0.029	2	227	26348	1	Standard
>	Tb	159		ug/L			1536215	1482609	0	Standard
	Tl	205	1.354	ug/L	0.022	1	715	96257	1	Standard
	Pb	208	1.367	ug/L	0.010	0	628	124348	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL4
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 01, 2023 19:03:20
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			984787	1075555	1	Standard
⌊	**Be**	**9**	**-0.000**	ug/L	0.000	731	3	3	69	Standard
	C	**13**		ug/L			42921	52886	0	Standard
⌈>	**Sc**	**45**		ug/L			850595	779776	0	Standard
⎢	**V**	**51**	**0.000**	ug/L	0.001	262	7786	7151	1	Standard
⎢	**V-1**	**51**	**0.016**	ug/L	0.001	3	362	841	1	Standard
⎢	**Cr**	**52**	**-0.007**	ug/L	0.005	71	22890	20815	0	Standard
⎢	**Cr**	**53**	**0.047**	ug/L	0.007	15	212	334	5	Standard
⎢	**Fe**	**54**	**1.614**	ug/L	0.253	15	90788	87259	0	Standard
⎢	**Fe**	**57**	**1.763**	ug/L	0.248	14	21922	21892	1	Standard
⌊	**Mn**	**55**	**0.002**	ug/L	0.001	36	774	800	3	Standard
⌈>	**Ge**	**72**		ug/L			48940	45292	1	KED
⎢	**Ni**	**60**	**-0.008**	ug/L	0.006	79	80	61	14	KED
⎢	**Ni**	**62**	**-0.022**	ug/L	0.022	102	16	9	60	KED
⎢	**Cu**	**63**	**-0.006**	ug/L	0.001	22	137	102	7	KED
⎢	**Cu**	**65**	**-0.007**	ug/L	0.004	68	67	47	24	KED
⎢	**Zn**	**66**	**0.083**	ug/L	0.030	36	85	129	12	KED
⎢	**Zn**	**67**	**0.037**	ug/L	0.059	160	17	19	31	KED
⌊	**As**	**75**	**-0.004**	ug/L	0.004	101	5	3	34	KED
	Y	**89**		ug/L			438010	402439	1	Standard
	Kr	**83**		ug/L			58	57	14	Standard
⌈>	**In-1**	**115**		ug/L			11681	10218	3	KED
⎢	**Cd**	**111**	**-0.006**	ug/L	0.007	112	5	3	69	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.004	227	6	3	91	KED
⌈>	**In**	**115**		ug/L			671207	637092	1	Standard
⌊	**Ag**	**107**	**-0.004**	ug/L	0.000	10	227	132	5	Standard
⌈>	**Tb**	**159**		ug/L			1536215	1481916	0	Standard
⎢	**Tl**	**205**	**-0.003**	ug/L	0.000	10	715	487	5	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	244	628	619	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV4
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 01, 2023 19:08:04
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			984787	1046851	1	Standard
	Be	**9**	**47.555**	ug/L	1.046	2	3	379740	1	Standard
	C	**13**		ug/L			42921	43628	0	Standard
>	**Sc**	**45**		ug/L			850595	798480	1	Standard
	V	**51**	**47.984**	ug/L	0.516	1	7786	1517123	0	Standard
	V-1	**51**	**47.945**	ug/L	0.477	0	362	1523734	1	Standard
	Cr	**52**	**47.926**	ug/L	1.170	2	22890	1283707	1	Standard
	Cr	**53**	**47.802**	ug/L	0.164	0	212	147173	1	Standard
	Fe	**54**	**5120.291**	ug/L	10.229	0	90788	13191578	0	Standard
	Fe	**57**	**5096.092**	ug/L	58.412	1	21922	5336145	2	Standard
	Mn	**55**	**48.665**	ug/L	0.536	1	774	1972223	0	Standard
>	**Ge**	**72**		ug/L			48940	45563	0	KED
	Ni	**60**	**51.937**	ug/L	1.163	2	80	83480	1	KED
	Ni	**62**	**52.568**	ug/L	2.507	4	16	13867	3	KED
	Cu	**63**	**52.895**	ug/L	0.697	1	137	242737	0	KED
	Cu	**65**	**53.039**	ug/L	0.671	1	67	125126	1	KED
	Zn	**66**	**52.306**	ug/L	0.349	0	85	32100	0	KED
	Zn	**67**	**51.821**	ug/L	0.998	1	17	5386	2	KED
	As	**75**	**50.306**	ug/L	0.304	0	5	16420	0	KED
	Y	**89**		ug/L			438010	404937	0	Standard
	Kr	**83**		ug/L			58	50	10	Standard
>	**In-1**	**115**		ug/L			11681	10590	1	KED
	Cd	**111**	**51.824**	ug/L	0.794	1	5	17011	1	KED
	Cd	**114**	**51.548**	ug/L	1.031	2	6	43718	1	KED
>	**In**	**115**		ug/L			671207	657530	2	Standard
	Ag	**107**	**49.207**	ug/L	2.098	4	227	1060988	2	Standard
>	**Tb**	**159**		ug/L			1536215	1492805	1	Standard
	Tl	**205**	**54.772**	ug/L	0.123	0	715	3893325	1	Standard
	Pb	**208**	**54.064**	ug/L	0.637	1	628	4927469	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB4
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 01, 2023 19:15:33
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			984787	1025830	2	Standard
⌊	**Be**	**9**	**-0.000**	ug/L	0.001	4373	3	3	124	Standard
	C	**13**		ug/L			42921	44553	1	Standard
⌈>	**Sc**	**45**		ug/L			850595	788392	1	Standard
⎢	**V**	**51**	**-0.013**	ug/L	0.003	26	7786	6821	2	Standard
⎢	**V-1**	**51**	**0.003**	ug/L	0.000	10	362	424	2	Standard
⎢	**Cr**	**52**	**-0.050**	ug/L	0.006	11	22890	19912	1	Standard
⎢	**Cr**	**53**	**0.003**	ug/L	0.006	251	212	204	8	Standard
⎢	**Fe**	**54**	**0.305**	ug/L	0.782	256	90788	84905	1	Standard
⎢	**Fe**	**57**	**-0.541**	ug/L	0.265	48	21922	19758	0	Standard
⌊	**Mn**	**55**	**-0.002**	ug/L	0.000	27	774	649	1	Standard
⌈>	**Ge**	**72**		ug/L			48940	46700	0	KED
⎢	**Ni**	**60**	**-0.024**	ug/L	0.005	19	80	36	21	KED
⎢	**Ni**	**62**	**-0.051**	ug/L	0.000	0	16	1		KED
⎢	**Cu**	**63**	**-0.004**	ug/L	0.002	36	137	111	6	KED
⎢	**Cu**	**65**	**-0.002**	ug/L	0.005	282	67	60	21	KED
⎢	**Zn**	**66**	**-0.006**	ug/L	0.020	334	85	78	15	KED
⎢	**Zn**	**67**	**-0.011**	ug/L	0.018	171	17	15	12	KED
⌊	**As**	**75**	**-0.005**	ug/L	0.002	54	5	3	24	KED
	Y	**89**		ug/L			438010	403055	0	Standard
	Kr	**83**		ug/L			58	47	16	Standard
⌈>	**In-1**	**115**		ug/L			11681	10833	2	KED
⎢	**Cd**	**111**	**-0.005**	ug/L	0.007	160	5	3	66	KED
⌊	**Cd**	**114**	**-0.000**	ug/L	0.007	3709	6	5	119	KED
⌈>	**In**	**115**		ug/L			671207	647354	0	Standard
⌊	**Ag**	**107**	**-0.002**	ug/L	0.001	54	227	172	14	Standard
⌈>	**Tb**	**159**		ug/L			1536215	1492180	1	Standard
⎢	**Tl**	**205**	**-0.001**	ug/L	0.000	54	715	638	6	Standard
⌊	**Pb**	**208**	**-0.000**	ug/L	0.000	74	628	573	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0584-02
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, May 01, 2023 19:21:59
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			984787	1011745	2	Standard
	Be	**9**	**0.001**	ug/L	0.000	73	3	7	43	Standard
	C	**13**		ug/L			42921	64232	1	Standard
>	**Sc**	**45**		ug/L			850595	913663	0	Standard
	V	**51**	**0.559**	ug/L	0.007	1	7786	28492	1	Standard
	V-1	**51**	**0.644**	ug/L	0.007	1	362	23818	0	Standard
	Cr	**52**	**-0.063**	ug/L	0.009	14	22890	22678	2	Standard
	Cr	**53**	**0.239**	ug/L	0.009	3	212	1067	2	Standard
	Fe	**54**	**97.599**	ug/L	1.786	1	90788	383369	1	Standard
	Fe	**57**	**119.411**	ug/L	1.204	1	21922	166056	1	Standard
	Mn	**55**	**58.475**	ug/L	1.251	2	774	2711466	1	Standard
>	**Ge**	**72**		ug/L			48940	46921	1	KED
	Ni	**60**	**1.207**	ug/L	0.105	8	80	2071	6	KED
	Ni	**62**	**1.090**	ug/L	0.083	7	16	311	7	KED
	Cu	**63**	**0.129**	ug/L	0.003	2	137	742	2	KED
	Cu	**65**	**0.126**	ug/L	0.027	21	67	370	16	KED
	Zn	**66**	**0.504**	ug/L	0.039	7	85	400	5	KED
	Zn	**67**	**0.841**	ug/L	0.230	27	17	106	22	KED
	As	**75**	**0.149**	ug/L	0.008	5	5	54	5	KED
	Y	**89**		ug/L			438010	401459	1	Standard
	Kr	**83**		ug/L			58	40	10	Standard
>	**In-1**	**115**		ug/L			11681	10387	1	KED
	Cd	**111**	**0.014**	ug/L	0.000	2	5	9	0	KED
	Cd	**114**	**0.006**	ug/L	0.005	79	6	10	37	KED
>	**In**	**115**		ug/L			671207	646901	2	Standard
	Ag	**107**	**-0.004**	ug/L	0.001	38	227	143	19	Standard
>	**Tb**	**159**		ug/L			1536215	1531402	1	Standard
	Tl	**205**	**-0.002**	ug/L	0.000	14	715	575	2	Standard
	Pb	**208**	**0.001**	ug/L	0.000	51	628	717	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0181-DUP3
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, May 01, 2023 19:26:53
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			984787	1018060	4	Standard
	Be	**9**	**0.001**	ug/L	0.001	121	3	8	75	Standard
	C	**13**		ug/L			42921	66510	1	Standard
>	**Sc**	**45**		ug/L			850595	899125	1	Standard
	V	**51**	**0.560**	ug/L	0.016	2	7786	28084	1	Standard
	V-1	**51**	**0.641**	ug/L	0.011	1	362	23298	1	Standard
	Cr	**52**	**-0.043**	ug/L	0.002	3	22890	22926	0	Standard
	Cr	**53**	**0.241**	ug/L	0.015	6	212	1060	5	Standard
	Fe	**54**	**99.314**	ug/L	1.750	1	90788	382203	1	Standard
	Fe	**57**	**117.379**	ug/L	4.052	3	21922	160994	1	Standard
	Mn	**55**	**58.622**	ug/L	1.207	2	774	2674819	0	Standard
>	**Ge**	**72**		ug/L			48940	45585	1	KED
	Ni	**60**	**1.202**	ug/L	0.046	3	80	2006	4	KED
	Ni	**62**	**1.202**	ug/L	0.112	9	16	332	7	KED
	Cu	**63**	**0.138**	ug/L	0.003	2	137	760	3	KED
	Cu	**65**	**0.134**	ug/L	0.018	13	67	378	10	KED
	Zn	**66**	**0.523**	ug/L	0.023	4	85	400	3	KED
	Zn	**67**	**0.815**	ug/L	0.181	22	17	100	18	KED
	As	**75**	**0.174**	ug/L	0.012	6	5	61	7	KED
	Y	**89**		ug/L			438010	404344	1	Standard
	Kr	**83**		ug/L			58	52	14	Standard
>	**In-1**	**115**		ug/L			11681	10334	0	KED
	Cd	**111**	**0.010**	ug/L	0.011	106	5	8	40	KED
	Cd	**114**	**0.005**	ug/L	0.005	95	6	9	41	KED
>	**In**	**115**		ug/L			671207	641574	2	Standard
	Ag	**107**	**-0.004**	ug/L	0.001	14	227	135	10	Standard
>	**Tb**	**159**		ug/L			1536215	1493320	0	Standard
	Tl	**205**	**-0.001**	ug/L	0.000	25	715	596	3	Standard
	Pb	**208**	**0.026**	ug/L	0.002	7	628	2971	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0181-MS3
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, May 01, 2023 19:31:31
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			984787	1007054	1	Standard
	Be	**9**	**12.568**	ug/L	0.360	2	3	96545	2	Standard
	C	**13**		ug/L			42921	63362	0	Standard
>	**Sc**	**45**		ug/L			850595	900533	0	Standard
	V	**51**	**11.473**	ug/L	0.241	2	7786	415357	1	Standard
	V-1	**51**	**11.541**	ug/L	0.205	1	362	413899	0	Standard
	Cr	**52**	**10.926**	ug/L	0.159	1	22890	348785	0	Standard
	Cr	**53**	**11.167**	ug/L	0.010	0	212	38946	0	Standard
	Fe	**54**	**2404.979**	ug/L	15.701	0	90788	7038734	0	Standard
	Fe	**57**	**2404.181**	ug/L	21.825	0	21922	2851213	1	Standard
	Mn	**55**	**67.979**	ug/L	0.373	0	774	3106839	0	Standard
>	**Ge**	**72**		ug/L			48940	44855	0	KED
	Ni	**60**	**14.498**	ug/L	0.228	1	80	22996	1	KED
	Ni	**62**	**14.498**	ug/L	0.640	4	16	3777	4	KED
	Cu	**63**	**13.494**	ug/L	0.155	1	137	61058	0	KED
	Cu	**65**	**13.332**	ug/L	0.328	2	67	31010	2	KED
	Zn	**66**	**43.378**	ug/L	0.204	0	85	26222	0	KED
	Zn	**67**	**40.338**	ug/L	0.488	1	17	4130	1	KED
	As	**75**	**13.317**	ug/L	0.048	0	5	4282	0	KED
	Y	**89**		ug/L			438010	407657	1	Standard
	Kr	**83**		ug/L			58	53	9	Standard
>	**In-1**	**115**		ug/L			11681	10270	0	KED
	Cd	**111**	**13.208**	ug/L	0.498	3	5	4208	3	KED
	Cd	**114**	**12.739**	ug/L	0.111	0	6	10482	0	KED
>	**In**	**115**		ug/L			671207	628243	3	Standard
	Ag	**107**	**12.560**	ug/L	0.414	3	227	258878	0	Standard
>	**Tb**	**159**		ug/L			1536215	1498948	1	Standard
	Tl	**205**	**12.965**	ug/L	0.304	2	715	925644	0	Standard
	Pb	**208**	**13.077**	ug/L	0.308	2	628	1196991	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0670-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, May 01, 2023 19:37:40
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			984787	1046537	2	Standard
	Be	**9**	**0.001**	ug/L	0.001	73	3	10	47	Standard
	C	**13**		ug/L			42921	139291	2	Standard
>	**Sc**	**45**		ug/L			850595	804321	1	Standard
	V	**51**	**0.137**	ug/L	0.010	7	7786	11721	3	Standard
	V-1	**51**	**0.211**	ug/L	0.004	2	362	7083	1	Standard
	Cr	**52**	**0.273**	ug/L	0.002	0	22890	28876	1	Standard
	Cr	**53**	**0.510**	ug/L	0.020	3	212	1779	3	Standard
	Fe	**54**	**110.970**	ug/L	1.574	1	90788	371954	0	Standard
	Fe	**57**	**107.577**	ug/L	3.090	2	21922	133728	1	Standard
	Mn	**55**	**42.129**	ug/L	0.880	2	774	1719793	1	Standard
>	**Ge**	**72**		ug/L			48940	45222	0	KED
	Ni	**60**	**1.449**	ug/L	0.031	2	80	2383	2	KED
	Ni	**62**	**1.356**	ug/L	0.086	6	16	370	6	KED
	Cu	**63**	**4.769**	ug/L	0.042	0	137	21837	0	KED
	Cu	**65**	**4.721**	ug/L	0.091	1	67	11112	2	KED
	Zn	**66**	**50.893**	ug/L	0.943	1	85	31004	2	KED
	Zn	**67**	**48.357**	ug/L	0.459	0	17	4989	1	KED
	As	**75**	**0.223**	ug/L	0.009	4	5	76	3	KED
	Y	**89**		ug/L			438010	405532	2	Standard
	Kr	**83**		ug/L			58	59	17	Standard
>	**In-1**	**115**		ug/L			11681	10533	1	KED
	Cd	**111**	**3.532**	ug/L	0.155	4	5	1157	4	KED
	Cd	**114**	**2.936**	ug/L	0.020	0	6	2482	2	KED
>	**In**	**115**		ug/L			671207	622105	0	Standard
	Ag	**107**	**0.008**	ug/L	0.000	2	227	380	1	Standard
>	**Tb**	**159**		ug/L			1536215	1440452	1	Standard
	Tl	**205**	**0.008**	ug/L	0.001	7	715	1236	2	Standard
	Pb	**208**	**0.273**	ug/L	0.003	1	628	24636	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0612-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, May 01, 2023 19:42:58
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			984787	1032745	1	Standard
	Be	**9**	**0.000**	ug/L	0.001	120	3	6	62	Standard
	C	**13**		ug/L			42921	60327	2	Standard
>	**Sc**	**45**		ug/L			850595	817185	1	Standard
	V	**51**	**2.860**	ug/L	0.116	4	7786	99557	2	Standard
	V-1	**51**	**2.912**	ug/L	0.058	1	362	95041	1	Standard
	Cr	**52**	**1.220**	ug/L	0.081	6	22890	54853	2	Standard
	Cr	**53**	**1.446**	ug/L	0.196	13	212	4754	13	Standard
	Fe	**54**	**668.446**	ug/L	21.821	3	90788	1837787	1	Standard
	Fe	**57**	**633.724**	ug/L	13.358	2	21922	697426	1	Standard
	Mn	**55**	**23.876**	ug/L	0.297	1	774	990667	1	Standard
>	**Ge**	**72**		ug/L			48940	46725	0	KED
	Ni	**60**	**5.653**	ug/L	0.052	0	80	9387	0	KED
	Ni	**62**	**5.502**	ug/L	0.163	2	16	1502	2	KED
	Cu	**63**	**7.916**	ug/L	0.106	1	137	37366	0	KED
	Cu	**65**	**7.785**	ug/L	0.082	1	67	18888	0	KED
	Zn	**66**	**17.470**	ug/L	0.355	2	85	11048	1	KED
	Zn	**67**	**15.726**	ug/L	1.276	8	17	1687	8	KED
	As	**75**	**0.031**	ug/L	0.011	35	5	15	24	KED
	Y	**89**		ug/L			438010	408714	0	Standard
	Kr	**83**		ug/L			58	64	21	Standard
>	**In-1**	**115**		ug/L			11681	10795	0	KED
	Cd	**111**	**-0.001**	ug/L	0.007	1090	5	5	47	KED
	Cd	**114**	**0.002**	ug/L	0.005	240	6	7	59	KED
>	**In**	**115**		ug/L			671207	642719	1	Standard
	Ag	**107**	**0.001**	ug/L	0.000	31	227	235	2	Standard
>	**Tb**	**159**		ug/L			1536215	1506684	1	Standard
	Tl	**205**	**0.002**	ug/L	0.001	34	715	858	5	Standard
	Pb	**208**	**0.922**	ug/L	0.008	0	628	85424	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0599-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, May 01, 2023 19:48:31
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
Li	6		ug/L			984787	1364590	2	Standard
Be	9	0.000	ug/L	0.000	6400	3	4	65	Standard
C	13		ug/L			42921	468306	1	Standard
Sc	45		ug/L			850595	799878	1	Standard
V	51	0.165	ug/L	0.019	11	7786	12534	3	Standard
V-1	51	0.066	ug/L	0.001	1	362	2426	1	Standard
Cr	52	4.229	ug/L	0.108	2	22890	133076	0	Standard
Cr	53	3.769	ug/L	0.064	1	212	11805	0	Standard
Fe	54	938.131	ug/L	11.043	1	90788	2491016	2	Standard
Fe	57	1179.535	ug/L	22.766	1	21922	1253239	3	Standard
Mn	55	96.344	ug/L	2.851	2	774	3909717	1	Standard
Ge	72		ug/L			48940	41831	1	KED
Ni	60	4.762	ug/L	0.186	3	80	7088	2	KED
Ni	62	4.817	ug/L	0.096	1	16	1179	2	KED
Cu	63	0.343	ug/L	0.027	7	137	1560	6	KED
Cu	65	0.343	ug/L	0.010	2	67	800	1	KED
Zn	66	4.774	ug/L	0.081	1	85	2756	2	KED
Zn	67	4.951	ug/L	0.197	3	17	485	3	KED
As	75	0.132	ug/L	0.013	9	5	43	7	KED
Y	89		ug/L			438010	393913	0	Standard
Kr	83		ug/L			58	66	4	Standard
In-1	115		ug/L			11681	9701	0	KED
Cd	111	0.046	ug/L	0.010	20	5	18	16	KED
Cd	114	0.049	ug/L	0.012	25	6	43	22	KED
In	115		ug/L			671207	598527	1	Standard
Ag	107	-0.002	ug/L	0.001	40	227	161	10	Standard
Tb	159		ug/L			1536215	1471863	0	Standard
Tl	205	-0.003	ug/L	0.001	22	715	443	12	Standard
Pb	208	0.021	ug/L	0.001	3	628	2513	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0611-01
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 01, 2023 19:53:39
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			984787	1060722	0	Standard
	Be	9	0.001	ug/L	0.001	141	3	8	86	Standard
	C	13		ug/L			42921	95516	0	Standard
>	Sc	45		ug/L			850595	848461	1	Standard
	V	51	0.129	ug/L	0.006	4	7786	12075	0	Standard
	V-1	51	0.236	ug/L	0.004	1	362	8324	0	Standard
	Cr	52	0.478	ug/L	0.035	7	22890	36210	1	Standard
	Cr	53	0.821	ug/L	0.027	3	212	2892	1	Standard
	Fe	54	508.298	ug/L	9.878	1	90788	1472842	1	Standard
	Fe	57	529.293	ug/L	7.271	1	21922	608412	1	Standard
	Mn	55	161.488	ug/L	2.536	1	774	6951605	0	Standard
>	Ge	72		ug/L			48940	44664	0	KED
	Ni	60	14.244	ug/L	0.179	1	80	22498	0	KED
	Ni	62	13.867	ug/L	0.339	2	16	3597	2	KED
	Cu	63	6.732	ug/L	0.078	1	137	30396	0	KED
	Cu	65	6.633	ug/L	0.147	2	67	15393	1	KED
	Zn	66	222.107	ug/L	1.633	0	85	133374	1	KED
	Zn	67	205.103	ug/L	1.622	0	17	20850	1	KED
	As	75	0.372	ug/L	0.008	2	5	123	1	KED
	Y	89		ug/L			438010	399660	1	Standard
	Kr	83		ug/L			58	73	16	Standard
>	In-1	115		ug/L			11681	10192	1	KED
	Cd	111	0.298	ug/L	0.047	15	5	99	13	KED
	Cd	114	0.318	ug/L	0.039	12	6	264	12	KED
>	In	115		ug/L			671207	621850	0	Standard
	Ag	107	-0.001	ug/L	0.001	58	227	187	7	Standard
>	Tb	159		ug/L			1536215	1503149	1	Standard
	Tl	205	-0.000	ug/L	0.000	62	715	678	1	Standard
	Pb	208	0.169	ug/L	0.007	3	628	16083	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0525-10
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, May 01, 2023 19:59:35
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			984787	1544265	2	Standard
	Be	9	0.000	ug/L	0.000	145	3	7	50	Standard
	C	13		ug/L			42921	98521	1	Standard
>	Sc	45		ug/L			850595	760451	0	Standard
	V	51	1.299	ug/L	0.021	1	7786	45879	1	Standard
	V-1	51	1.373	ug/L	0.014	0	362	41864	1	Standard
	Cr	52	1.110	ug/L	0.025	2	22890	48298	1	Standard
	Cr	53	1.360	ug/L	0.015	1	212	4173	1	Standard
	Fe	54	33.210	ug/L	1.011	3	90788	162131	1	Standard
	Fe	57	61.844	ug/L	1.101	1	21922	81030	1	Standard
	Mn	55	7.918	ug/L	0.126	1	774	306211	1	Standard
>	Ge	72		ug/L			48940	39434	0	KED
	Ni	60	1.689	ug/L	0.038	2	80	2411	1	KED
	Ni	62	1.526	ug/L	0.086	5	16	361	4	KED
	Cu	63	8.124	ug/L	0.020	0	137	32362	0	KED
	Cu	65	7.901	ug/L	0.048	0	67	16178	0	KED
	Zn	66	7.432	ug/L	0.035	0	85	4006	0	KED
	Zn	67	6.905	ug/L	0.375	5	17	633	5	KED
	As	75	0.143	ug/L	0.018	12	5	44	11	KED
	Y	89		ug/L			438010	388282	3	Standard
	Kr	83		ug/L			58	54	16	Standard
>	In-1	115		ug/L			11681	8990	1	KED
	Cd	111	0.004	ug/L	0.002	60	5	5	10	KED
	Cd	114	0.010	ug/L	0.008	83	6	11	51	KED
>	In	115		ug/L			671207	556654	1	Standard
	Ag	107	-0.005	ug/L	0.000	7	227	94	7	Standard
>	Tb	159		ug/L			1536215	1430062	1	Standard
	Tl	205	0.002	ug/L	0.000	9	715	831	2	Standard
	Pb	208	0.296	ug/L	0.005	1	628	26457	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0525-11
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, May 01, 2023 20:04:19
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	Li	6		ug/L			984787	1715218	3	Standard
	Be	9	0.000	ug/L	0.000	113	3	6	17	Standard
	C	13		ug/L			42921	106866	0	Standard
>	Sc	45		ug/L			850595	735013	1	Standard
	V	51	1.721	ug/L	0.011	0	7786	56590	1	Standard
	V-1	51	1.828	ug/L	0.012	0	362	53772	1	Standard
	Cr	52	1.365	ug/L	0.017	1	22890	52867	1	Standard
	Cr	53	1.727	ug/L	0.018	1	212	5072	2	Standard
	Fe	54	42.226	ug/L	0.782	1	90788	177955	1	Standard
	Fe	57	78.035	ug/L	1.755	2	21922	93874	2	Standard
	Mn	55	10.538	ug/L	0.105	0	774	393691	1	Standard
>	Ge	72		ug/L			48940	37282	0	KED
	Ni	60	2.361	ug/L	0.060	2	80	3164	3	KED
	Ni	62	2.450	ug/L	0.062	2	16	540	2	KED
	Cu	63	11.027	ug/L	0.148	1	137	41488	0	KED
	Cu	65	10.945	ug/L	0.110	1	67	21168	0	KED
	Zn	66	9.808	ug/L	0.071	0	85	4978	1	KED
	Zn	67	8.745	ug/L	0.526	6	17	754	4	KED
	As	75	0.187	ug/L	0.019	10	5	53	8	KED
	Y	89		ug/L			438010	367289	0	Standard
	Kr	83		ug/L			58	73	7	Standard
>	In-1	115		ug/L			11681	8510	0	KED
	Cd	111	-0.000	ug/L	0.012	6618	5	4	74	KED
	Cd	114	0.014	ug/L	0.000	2	6	13	1	KED
>	In	115		ug/L			671207	551801	1	Standard
	Ag	107	-0.006	ug/L	0.001	17	227	85	20	Standard
>	Tb	159		ug/L			1536215	1410250	0	Standard
	Tl	205	0.004	ug/L	0.002	40	715	915	11	Standard
	Pb	208	0.362	ug/L	0.001	0	628	31781	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL5
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 01, 2023 20:09:04
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			984787	1146067	0	Standard
	Be	**9**	**-0.000**	ug/L	0.000	252	3	2	114	Standard
	C	**13**		ug/L			42921	54540	2	Standard
>	**Sc**	**45**		ug/L			850595	797904	1	Standard
	V	**51**	**0.016**	ug/L	0.003	17	7786	7810	2	Standard
	V-1	**51**	**-0.000**	ug/L	0.000	121	362	332	4	Standard
	Cr	**52**	**0.070**	ug/L	0.006	8	22890	23320	1	Standard
	Cr	**53**	**0.014**	ug/L	0.007	47	212	243	7	Standard
	Fe	**54**	**1.321**	ug/L	0.299	22	90788	88536	0	Standard
	Fe	**57**	**17.699**	ug/L	0.735	4	21922	39005	1	Standard
	Mn	**55**	**0.005**	ug/L	0.001	13	774	915	1	Standard
>	**Ge**	**72**		ug/L			48940	45920	0	KED
	Ni	**60**	**-0.017**	ug/L	0.004	24	80	48	13	KED
	Ni	**62**	**-0.023**	ug/L	0.026	113	16	9	72	KED
	Cu	**63**	**-0.003**	ug/L	0.005	181	137	116	19	KED
	Cu	**65**	**-0.003**	ug/L	0.001	34	67	56	5	KED
	Zn	**66**	**0.048**	ug/L	0.021	44	85	109	11	KED
	Zn	**67**	**0.053**	ug/L	0.060	114	17	21	28	KED
	As	**75**	**-0.007**	ug/L	0.001	20	5	2	20	KED
	Y	**89**		ug/L			438010	400146	1	Standard
	Kr	**83**		ug/L			58	50	31	Standard
>	**In-1**	**115**		ug/L			11681	10103	2	KED
	Cd	**111**	**-0.005**	ug/L	0.002	34	5	3	15	KED
	Cd	**114**	**-0.001**	ug/L	0.004	295	6	4	67	KED
>	**In**	**115**		ug/L			671207	631524	0	Standard
	Ag	**107**	**-0.006**	ug/L	0.000	7	227	91	9	Standard
>	**Tb**	**159**		ug/L			1536215	1501507	1	Standard
	Tl	**205**	**-0.003**	ug/L	0.000	5	715	459	2	Standard
	Pb	**208**	**-0.000**	ug/L	0.001	532	628	605	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV5
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 01, 2023 20:13:49
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
>	**Li**	**6**		ug/L			984787	1051500	1	Standard
	Be	**9**	**47.600**	ug/L	1.284	2	3	381793	1	Standard
	C	**13**		ug/L			42921	44886	1	Standard
>	**Sc**	**45**		ug/L			850595	789991	1	Standard
	V	**51**	**47.254**	ug/L	0.649	1	7786	1478157	0	Standard
	V-1	**51**	**47.091**	ug/L	0.657	1	362	1480458	0	Standard
	Cr	**52**	**47.511**	ug/L	1.036	2	22890	1259124	0	Standard
	Cr	**53**	**46.962**	ug/L	1.057	2	212	143016	0	Standard
	Fe	**54**	**5046.464**	ug/L	90.163	1	90788	12863806	2	Standard
	Fe	**57**	**4964.469**	ug/L	96.887	1	21922	5144257	3	Standard
	Mn	**55**	**47.558**	ug/L	0.304	0	774	1907071	2	Standard
>	**Ge**	**72**		ug/L			48940	45058	1	KED
	Ni	**60**	**52.874**	ug/L	0.385	0	80	84047	0	KED
	Ni	**62**	**51.858**	ug/L	0.552	1	16	13531	0	KED
	Cu	**63**	**53.094**	ug/L	1.251	2	137	240922	1	KED
	Cu	**65**	**52.032**	ug/L	0.581	1	67	121394	1	KED
	Zn	**66**	**51.619**	ug/L	0.120	0	85	31330	1	KED
	Zn	**67**	**50.172**	ug/L	1.272	2	17	5156	1	KED
	As	**75**	**49.335**	ug/L	0.316	0	5	15924	1	KED
	Y	**89**		ug/L			438010	401667	0	Standard
	Kr	**83**		ug/L			58	50	30	Standard
>	**In-1**	**115**		ug/L			11681	10090	2	KED
	Cd	**111**	**50.910**	ug/L	0.890	1	5	15919	0	KED
	Cd	**114**	**51.101**	ug/L	1.321	2	6	41282	0	KED
>	**In**	**115**		ug/L			671207	631886	3	Standard
	Ag	**107**	**50.398**	ug/L	2.817	5	227	1043544	2	Standard
>	**Tb**	**159**		ug/L			1536215	1494954	0	Standard
	Tl	**205**	**54.517**	ug/L	0.608	1	715	3880809	1	Standard
	Pb	**208**	**54.148**	ug/L	0.178	0	628	4942795	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB5
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 01, 2023 20:21:17
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
⌈>	**Li**	**6**		ug/L			984787	1034789	0	Standard
⌊	**Be**	**9**	**-0.000**	ug/L	0.000	2213	3	3	124	Standard
	C	**13**		ug/L			42921	42496	2	Standard
⌈>	**Sc**	**45**		ug/L			850595	764976	1	Standard
⌈	**V**	**51**	**-0.018**	ug/L	0.002	8	7786	6471	0	Standard
⌊	**V-1**	**51**	**-0.002**	ug/L	0.000	14	362	249	3	Standard
⌈	**Cr**	**52**	**-0.060**	ug/L	0.007	12	22890	19066	0	Standard
⌊	**Cr**	**53**	**-0.009**	ug/L	0.003	37	212	164	4	Standard
⌈	**Fe**	**54**	**0.958**	ug/L	0.731	76	90788	83986	1	Standard
⌊	**Fe**	**57**	**0.064**	ug/L	0.574	895	21922	19775	1	Standard
⌊	**Mn**	**55**	**-0.003**	ug/L	0.001	22	774	588	4	Standard
⌈>	**Ge**	**72**		ug/L			48940	46129	1	KED
⌈	**Ni**	**60**	**-0.028**	ug/L	0.005	18	80	29	30	KED
⌊	**Ni**	**62**	**-0.034**	ug/L	0.018	52	16	6	75	KED
⌈	**Cu**	**63**	**-0.011**	ug/L	0.005	41	137	76	29	KED
⌊	**Cu**	**65**	**-0.011**	ug/L	0.006	54	67	38	35	KED
⌈	**Zn**	**66**	**-0.037**	ug/L	0.018	48	85	57	19	KED
⌊	**Zn**	**67**	**-0.063**	ug/L	0.019	30	17	9	20	KED
⌊	**As**	**75**	**-0.005**	ug/L	0.004	72	5	3	37	KED
	Y	**89**		ug/L			438010	386221	0	Standard
	Kr	**83**		ug/L			58	50	9	Standard
⌈>	**In-1**	**115**		ug/L			11681	10523	2	KED
⌈	**Cd**	**111**	**-0.006**	ug/L	0.010	163	5	3	105	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.001	95	6	4	26	KED
⌈>	**In**	**115**		ug/L			671207	612064	1	Standard
⌊	**Ag**	**107**	**-0.002**	ug/L	0.000	17	227	157	4	Standard
⌈>	**Tb**	**159**		ug/L			1536215	1434460	1	Standard
⌈	**Tl**	**205**	**-0.001**	ug/L	0.001	49	715	587	5	Standard
⌊	**Pb**	**208**	**-0.002**	ug/L	0.000	19	628	389	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 01, 2023 20:30:25
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				40288	0	Standard
>	**Sc**	**45**		ug/L				754240	0	Standard
	Cr	**52**		ug/L				19104	0	Standard
	Cr	**53**		ug/L				152	8	Standard
	Fe	**54**		ug/L				83156	0	Standard
	Fe	**57**		ug/L				19734	1	Standard
	Mn	**55**		ug/L				501	4	Standard
>	**Ge**	**72**		ug/L				46335	0	KED
	Cu	**63**		ug/L				52	18	KED
	Cu	**65**		ug/L				27	27	KED
	Zn	**66**		ug/L				27	17	KED
	Zn	**67**		ug/L				8	66	KED
	As	**75**		ug/L				3	12	KED
	Y	**89**		ug/L				375682	0	Standard
	Kr	**83**		ug/L				51	29	Standard
>	**In-1**	**115**		ug/L				10677	1	KED
	Cd	**111**		ug/L				4	58	KED
	Cd	**114**		ug/L				3	87	KED
>	**In**	**115**		ug/L				621777	1	Standard
	Ag	**107**		ug/L				111	10	Standard
>	**Tb**	**159**		ug/L				1460500	0	Standard
	Pb	**208**		ug/L				229	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV6
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 01, 2023 20:34:58

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			40288	41928	2	Standard
>	**Sc**	**45**		ug/L			754240	699493	11	Standard
	Cr	**52**	**49.232**	ug/L	2.985	6	19104	1153911	12	Standard
	Cr	**53**	**49.323**	ug/L	2.757	5	152	132803	10	Standard
	Fe	**54**	**5296.009**	ug/L	310.840	5	83156	11937008	10	Standard
	Fe	**57**	**5278.797**	ug/L	263.816	4	19734	4834998	10	Standard
	Mn	**55**	**49.959**	ug/L	2.184	4	501	1772468	11	Standard
>	**Ge**	**72**		ug/L			46335	46371	0	KED
	Cu	**63**	**51.659**	ug/L	0.414	0	52	241207	0	KED
	Cu	**65**	**51.215**	ug/L	1.259	2	27	122928	2	KED
	Zn	**66**	**51.503**	ug/L	0.845	1	27	32116	1	KED
	Zn	**67**	**51.683**	ug/L	1.084	2	8	5458	2	KED
	As	**75**	**49.048**	ug/L	0.379	0	3	16292	0	KED
	Y	**89**		ug/L			375682	354292	11	Standard
	Kr	**83**		ug/L			51	71	22	Standard
>	**In-1**	**115**		ug/L			10677	10253	1	KED
	Cd	**111**	**51.644**	ug/L	0.177	0	4	16412	0	KED
	Cd	**114**	**52.000**	ug/L	0.591	1	3	42699	0	KED
>	**In**	**115**		ug/L			621777	545415	13	Standard
	Ag	**107**	**52.688**	ug/L	2.526	4	111	941423	12	Standard
>	**Tb**	**159**		ug/L			1460500	1357097	7	Standard
	Pb	**208**	**55.157**	ug/L	3.272	5	229	4565797	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV6
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 01, 2023 20:42:14
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			40288	43322	0	Standard
⌈>	**Sc**	**45**		ug/L			754240	775616	2	Standard
|	**Cr**	**52**	**48.125**	ug/L	0.236	0	19104	1251114	2	Standard
|	**Cr**	**53**	**47.586**	ug/L	0.166	0	152	142283	2	Standard
|	**Fe**	**54**	**5140.488**	ug/L	48.493	0	83156	12865578	1	Standard
|	**Fe**	**57**	**5067.306**	ug/L	126.053	2	19734	5152653	2	Standard
⌊	**Mn**	**55**	**48.525**	ug/L	0.781	1	501	1909692	0	Standard
⌈>	**Ge**	**72**		ug/L			46335	46730	0	KED
|	**Cu**	**63**	**51.464**	ug/L	0.841	1	52	242141	0	KED
|	**Cu**	**65**	**51.657**	ug/L	0.822	1	27	124944	0	KED
|	**Zn**	**66**	**51.371**	ug/L	0.285	0	27	32283	1	KED
|	**Zn**	**67**	**51.356**	ug/L	0.219	0	8	5466	0	KED
⌊	**As**	**75**	**49.796**	ug/L	0.542	1	3	16669	1	KED
	Y	**89**		ug/L			375682	385653	4	Standard
	Kr	**83**		ug/L			51	61	18	Standard
⌈>	**In-1**	**115**		ug/L			10677	10729	1	KED
|	**Cd**	**111**	**51.455**	ug/L	0.983	1	4	17108	0	KED
⌊	**Cd**	**114**	**51.660**	ug/L	0.744	1	3	44383	0	KED
⌈>	**In**	**115**		ug/L			621777	596160	1	Standard
⌊	**Ag**	**107**	**50.409**	ug/L	1.320	2	111	985739	1	Standard
⌈>	**Tb**	**159**		ug/L			1460500	1479204	1	Standard
⌊	**Pb**	**208**	**53.457**	ug/L	0.892	1	229	4826946	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB6
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 01, 2023 20:49:31
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			40288	40958	1	Standard
⌈>	**Sc**	**45**		ug/L			754240	781839	1	Standard
|	**Cr**	**52**	**-0.017**	ug/L	0.022	123	19104	19349	1	Standard
|	**Cr**	**53**	**-0.006**	ug/L	0.004	62	152	139	7	Standard
|	**Fe**	**54**	**-0.071**	ug/L	0.224	315	83156	86025	1	Standard
|	**Fe**	**57**	**-1.190**	ug/L	0.292	24	19734	19238	0	Standard
⌊	**Mn**	**55**	**0.000**	ug/L	0.000	78	501	535	3	Standard
⌈>	**Ge**	**72**		ug/L			46335	47285	0	KED
|	**Cu**	**63**	**0.022**	ug/L	0.036	163	52	158	108	KED
|	**Cu**	**65**	**0.023**	ug/L	0.037	164	27	83	108	KED
|	**Zn**	**66**	**0.026**	ug/L	0.046	173	27	45	63	KED
|	**Zn**	**67**	**0.028**	ug/L	0.062	220	8	11	57	KED
⌊	**As**	**75**	**0.024**	ug/L	0.041	170	3	11	114	KED
	Y	**89**		ug/L			375682	387613	0	Standard
	Kr	**83**		ug/L			51	57	9	Standard
⌈>	**In-1**	**115**		ug/L			10677	11086	2	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.004	201	4	3	41	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.003	160	3	2	94	KED
⌈>	**In**	**115**		ug/L			621777	604852	3	Standard
⌊	**Ag**	**107**	**0.004**	ug/L	0.001	29	111	193	10	Standard
⌈>	**Tb**	**159**		ug/L			1460500	1489051	0	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	11	229	305	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0137-02
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 01, 2023 20:57:55
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			40288	79292	2	Standard
⌈>	**Sc**	**45**		ug/L			754240	889684	1	Standard
|	**Cr**	**52**	**0.129**	ug/L	0.032	25	19104	26317	2	Standard
|	**Cr**	**53**	**0.508**	ug/L	0.014	2	152	1920	1	Standard
|	**Fe**	**54**	**524.107**	ug/L	8.554	1	83156	1592652	0	Standard
|	**Fe**	**57**	**517.354**	ug/L	20.992	4	19734	624346	3	Standard
⌊	**Mn**	**55**	**37.121**	ug/L	0.650	1	501	1676325	2	Standard
⌈>	**Ge**	**72**		ug/L			46335	47820	0	KED
|	**Cu**	**63**	**0.672**	ug/L	0.008	1	52	3291	1	KED
|	**Cu**	**65**	**0.652**	ug/L	0.011	1	27	1641	2	KED
|	**Zn**	**66**	**5.007**	ug/L	0.056	1	27	3246	0	KED
|	**Zn**	**67**	**4.668**	ug/L	0.208	4	8	516	4	KED
⌊	**As**	**75**	**0.159**	ug/L	0.014	9	3	58	9	KED
	Y	**89**		ug/L			375682	400149	1	Standard
	Kr	**83**		ug/L			51	45	24	Standard
⌈>	**In-1**	**115**		ug/L			10677	11387	2	KED
|	**Cd**	**111**	**0.000**	ug/L	0.006	2956	4	4	49	KED
⌊	**Cd**	**114**	**0.007**	ug/L	0.005	75	3	10	46	KED
⌈>	**In**	**115**		ug/L			621777	618237	3	Standard
⌊	**Ag**	**107**	**0.004**	ug/L	0.001	31	111	183	9	Standard
⌈>	**Tb**	**159**		ug/L			1460500	1513427	0	Standard
⌊	**Pb**	**208**	**0.008**	ug/L	0.000	4	229	992	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0525-09
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 01, 2023 21:04:03
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			40288	111383	2	Standard
⌈>	**Sc**	**45**		ug/L			754240	765608	2	Standard
|	**Cr**	**52**	**0.982**	ug/L	0.027	2	19104	44182	1	Standard
|	**Cr**	**53**	**1.185**	ug/L	0.015	1	152	3649	1	Standard
|	**Fe**	**54**	**47.061**	ug/L	1.734	3	83156	199889	2	Standard
|	**Fe**	**57**	**71.087**	ug/L	0.622	0	19734	91118	1	Standard
⌊	**Mn**	**55**	**8.311**	ug/L	0.113	1	501	323305	1	Standard
⌈>	**Ge**	**72**		ug/L			46335	39486	0	KED
|	**Cu**	**63**	**8.944**	ug/L	0.121	1	52	35598	1	KED
|	**Cu**	**65**	**8.868**	ug/L	0.083	0	27	18145	1	KED
|	**Zn**	**66**	**6.292**	ug/L	0.270	4	27	3362	4	KED
|	**Zn**	**67**	**5.938**	ug/L	0.317	5	8	540	5	KED
⌊	**As**	**75**	**0.123**	ug/L	0.022	17	3	37	16	KED
	Y	**89**		ug/L			375682	380420	2	Standard
	Kr	**83**		ug/L			51	66	21	Standard
⌈>	**In-1**	**115**		ug/L			10677	9185	0	KED
|	**Cd**	**111**	**0.022**	ug/L	0.002	7	4	9	5	KED
⌊	**Cd**	**114**	**0.010**	ug/L	0.001	12	3	10	9	KED
⌈>	**In**	**115**		ug/L			621777	556025	0	Standard
⌊	**Ag**	**107**	**-0.000**	ug/L	0.001	437	111	97	11	Standard
⌈>	**Tb**	**159**		ug/L			1460500	1435858	0	Standard
⌊	**Pb**	**208**	**0.243**	ug/L	0.003	1	229	21545	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0525-12
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 01, 2023 21:08:59
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			40288	91019	3	Standard
>	Sc	45		ug/L			754240	804574	2	Standard
	Cr	52	0.384	ug/L	0.005	1	19104	30570	2	Standard
	Cr	53	0.276	ug/L	0.010	3	152	1017	0	Standard
	Fe	54	15.812	ug/L	0.304	1	83156	129485	2	Standard
	Fe	57	21.239	ug/L	0.248	1	19734	43367	2	Standard
	Mn	55	0.151	ug/L	0.004	2	501	6689	2	Standard
>	Ge	72		ug/L			46335	47422	0	KED
	Cu	63	0.107	ug/L	0.012	11	52	562	11	KED
	Cu	65	0.116	ug/L	0.018	15	27	314	14	KED
	Zn	66	0.352	ug/L	0.031	8	27	252	8	KED
	Zn	67	0.299	ug/L	0.086	28	8	40	22	KED
	As	75	0.012	ug/L	0.002	19	3	7	9	KED
	Y	89		ug/L			375682	408549	2	Standard
	Kr	83		ug/L			51	48	16	Standard
>	In-1	115		ug/L			10677	10761	0	KED
	Cd	111	-0.001	ug/L	0.006	549	4	3	50	KED
	Cd	114	0.000	ug/L	0.004	1225	3	4	95	KED
>	In	115		ug/L			621777	642381	1	Standard
	Ag	107	-0.001	ug/L	0.000	34	111	100	6	Standard
>	Tb	159		ug/L			1460500	1531480	2	Standard
	Pb	208	0.009	ug/L	0.000	4	229	1109	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL6
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 01, 2023 21:14:29
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			40288	51876	0	Standard
>	**Sc**	**45**		ug/L			754240	764070	2	Standard
	Cr	**52**	**0.098**	ug/L	0.012	12	19104	21808	1	Standard
	Cr	**53**	**0.015**	ug/L	0.002	11	152	199	3	Standard
	Fe	**54**	**0.209**	ug/L	0.125	59	83156	84758	2	Standard
	Fe	**57**	**17.021**	ug/L	0.514	3	19734	36973	2	Standard
	Mn	**55**	**0.008**	ug/L	0.001	9	501	800	2	Standard
>	**Ge**	**72**		ug/L			46335	46548	1	KED
	Cu	**63**	**0.010**	ug/L	0.004	40	52	98	18	KED
	Cu	**65**	**0.011**	ug/L	0.002	20	27	54	10	KED
	Zn	**66**	**0.143**	ug/L	0.011	7	27	117	5	KED
	Zn	**67**	**0.096**	ug/L	0.029	30	8	18	15	KED
	As	**75**	**-0.006**	ug/L	0.003	52	3	1	62	KED
	Y	**89**		ug/L			375682	384121	0	Standard
	Kr	**83**		ug/L			51	50	31	Standard
>	**In-1**	**115**		ug/L			10677	10617	1	KED
	Cd	**111**	**-0.008**	ug/L	0.004	58	4	1	91	KED
	Cd	**114**	**-0.001**	ug/L	0.003	372	3	3	72	KED
>	**In**	**115**		ug/L			621777	619258	2	Standard
	Ag	**107**	**-0.002**	ug/L	0.000	18	111	74	8	Standard
>	**Tb**	**159**		ug/L			1460500	1477611	0	Standard
	Pb	**208**	**0.004**	ug/L	0.001	12	229	589	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0525-08
Sample Dil Factor: 5
Comments:
Sample Date/Time: Monday, May 01, 2023 21:19:03
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			40288	68423	0	Standard
⌈>	**Sc**	**45**		ug/L			754240	778418	2	Standard
|	**Cr**	**52**	**5.740**	ug/L	0.078	1	19104	167103	1	Standard
|	**Cr**	**53**	**5.741**	ug/L	0.067	1	152	17362	2	Standard
|	**Fe**	**54**	**23.796**	ug/L	0.830	3	83156	145223	3	Standard
|	**Fe**	**57**	**47.038**	ug/L	1.298	2	19734	68175	0	Standard
⌊	**Mn**	**55**	**2.423**	ug/L	0.015	0	501	96192	1	Standard
⌈>	**Ge**	**72**		ug/L			46335	43981	0	KED
|	**Cu**	**63**	**2.974**	ug/L	0.072	2	52	13220	2	KED
|	**Cu**	**65**	**2.931**	ug/L	0.044	1	27	6696	1	KED
|	**Zn**	**66**	**1.908**	ug/L	0.091	4	27	1153	4	KED
|	**Zn**	**67**	**1.616**	ug/L	0.270	16	8	169	16	KED
⌊	**As**	**75**	**0.027**	ug/L	0.008	29	3	12	21	KED
	Y	**89**		ug/L			375682	385819	1	Standard
	Kr	**83**		ug/L			51	61	3	Standard
⌈>	**In-1**	**115**		ug/L			10677	9996	1	KED
|	**Cd**	**111**	**-0.003**	ug/L	0.005	158	4	2	57	KED
⌊	**Cd**	**114**	**0.007**	ug/L	0.002	33	3	9	20	KED
⌈>	**In**	**115**		ug/L			621777	603148	2	Standard
⌊	**Ag**	**107**	**-0.000**	ug/L	0.001	195	111	99	19	Standard
⌈>	**Tb**	**159**		ug/L			1460500	1477250	1	Standard
⌊	**Pb**	**208**	**0.107**	ug/L	0.001	0	229	9904	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0525-07
Sample Dil Factor: 5
Comments:
Sample Date/Time: Monday, May 01, 2023 21:24:45
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			40288	67190	0	Standard
⌈>	**Sc**	**45**		ug/L			754240	775012	1	Standard
|	**Cr**	**52**	**3.707**	ug/L	0.049	1	19104	114418	1	Standard
|	**Cr**	**53**	**3.712**	ug/L	0.027	0	152	11234	1	Standard
|	**Fe**	**54**	**17.160**	ug/L	1.091	6	83156	128094	3	Standard
|	**Fe**	**57**	**38.603**	ug/L	1.199	3	19734	59354	2	Standard
⌊	**Mn**	**55**	**1.960**	ug/L	0.014	0	501	77597	0	Standard
⌈>	**Ge**	**72**		ug/L			46335	44501	1	KED
|	**Cu**	**63**	**2.970**	ug/L	0.039	1	52	13352	0	KED
|	**Cu**	**65**	**2.913**	ug/L	0.084	2	27	6733	1	KED
|	**Zn**	**66**	**1.429**	ug/L	0.075	5	27	881	5	KED
|	**Zn**	**67**	**1.150**	ug/L	0.140	12	8	124	13	KED
⌊	**As**	**75**	**0.023**	ug/L	0.008	34	3	11	24	KED
	Y	**89**		ug/L			375682	380818	0	Standard
	Kr	**83**		ug/L			51	51	14	Standard
⌈>	**In-1**	**115**		ug/L			10677	10017	2	KED
|	**Cd**	**111**	**0.004**	ug/L	0.008	195	4	5	47	KED
⌊	**Cd**	**114**	**0.007**	ug/L	0.002	32	3	9	21	KED
⌈>	**In**	**115**		ug/L			621777	594563	3	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.000	29	111	84	9	Standard
⌈>	**Tb**	**159**		ug/L			1460500	1466307	2	Standard
⌊	**Pb**	**208**	**0.013**	ug/L	0.000	0	229	1365	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0785-DUP2
Sample Dil Factor: 5
Comments:
Sample Date/Time: Monday, May 01, 2023 21:29:34
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			40288	67868	2	Standard
⌈>	**Sc**	**45**		ug/L			754240	775545	2	Standard
|	**Cr**	**52**	**3.672**	ug/L	0.088	2	19104	113582	2	Standard
|	**Cr**	**53**	**3.610**	ug/L	0.094	2	152	10937	3	Standard
|	**Fe**	**54**	**15.910**	ug/L	0.819	5	83156	125042	1	Standard
|	**Fe**	**57**	**39.272**	ug/L	1.070	2	19734	60073	2	Standard
⌊	**Mn**	**55**	**1.928**	ug/L	0.044	2	501	76371	1	Standard
⌈>	**Ge**	**72**		ug/L			46335	44033	1	KED
|	**Cu**	**63**	**2.992**	ug/L	0.014	0	52	13313	1	KED
|	**Cu**	**65**	**2.893**	ug/L	0.017	0	27	6619	1	KED
|	**Zn**	**66**	**1.327**	ug/L	0.059	4	27	811	4	KED
|	**Zn**	**67**	**1.165**	ug/L	0.107	9	8	124	7	KED
⌊	**As**	**75**	**0.022**	ug/L	0.007	33	3	10	22	KED
	Y	**89**		ug/L			375682	387547	2	Standard
	Kr	**83**		ug/L			51	40	17	Standard
⌈>	**In-1**	**115**		ug/L			10677	10154	1	KED
|	**Cd**	**111**	**-0.004**	ug/L	0.005	106	4	2	57	KED
⌊	**Cd**	**114**	**0.006**	ug/L	0.004	64	3	8	35	KED
⌈>	**In**	**115**		ug/L			621777	590037	0	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.001	75	111	80	24	Standard
⌈>	**Tb**	**159**		ug/L			1460500	1482691	1	Standard
⌊	**Pb**	**208**	**0.010**	ug/L	0.000	2	229	1156	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0785-MS2
Sample Dil Factor: 5
Comments:
Sample Date/Time: Monday, May 01, 2023 21:34:30
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			40288	63051	1	Standard
⌈>	**Sc**	**45**		ug/L			754240	758607	2	Standard
|	**Cr**	**52**	**8.495**	ug/L	0.116	1	19104	231783	1	Standard
|	**Cr**	**53**	**8.468**	ug/L	0.047	0	152	24889	2	Standard
|	**Fe**	**54**	**1047.525**	ug/L	16.524	1	83156	2630591	0	Standard
|	**Fe**	**57**	**1016.159**	ug/L	13.759	1	19734	1026676	1	Standard
⌊	**Mn**	**55**	**6.939**	ug/L	0.104	1	501	267543	0	Standard
⌈>	**Ge**	**72**		ug/L			46335	44474	1	KED
|	**Cu**	**63**	**8.384**	ug/L	0.224	2	52	37578	1	KED
|	**Cu**	**65**	**8.173**	ug/L	0.095	1	27	18837	2	KED
|	**Zn**	**66**	**18.728**	ug/L	0.253	1	27	11216	0	KED
|	**Zn**	**67**	**17.474**	ug/L	0.082	0	8	1775	1	KED
⌊	**As**	**75**	**5.200**	ug/L	0.148	2	3	1659	2	KED
	Y	**89**		ug/L			375682	382435	0	Standard
	Kr	**83**		ug/L			51	48	11	Standard
⌈>	**In-1**	**115**		ug/L			10677	9885	1	KED
|	**Cd**	**111**	**5.434**	ug/L	0.211	3	4	1667	2	KED
⌊	**Cd**	**114**	**5.348**	ug/L	0.075	1	3	4236	0	KED
⌈>	**In**	**115**		ug/L			621777	609177	1	Standard
⌊	**Ag**	**107**	**5.027**	ug/L	0.032	0	111	100575	1	Standard
⌈>	**Tb**	**159**		ug/L			1460500	1476822	1	Standard
⌊	**Pb**	**208**	**5.539**	ug/L	0.092	1	229	499598	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0785-MSD2
Sample Dil Factor: 5
Comments:
Sample Date/Time: Monday, May 01, 2023 21:40:27
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			40288	63378	3	Standard
⌈>	**Sc**	**45**		ug/L			754240	774249	2	Standard
|	**Cr**	**52**	**8.304**	ug/L	0.094	1	19104	231688	1	Standard
|	**Cr**	**53**	**8.487**	ug/L	0.110	1	152	25459	2	Standard
|	**Fe**	**54**	**1042.800**	ug/L	16.664	1	83156	2672987	0	Standard
|	**Fe**	**57**	**1012.075**	ug/L	19.375	1	19734	1043573	1	Standard
⌊	**Mn**	**55**	**6.923**	ug/L	0.108	1	501	272427	1	Standard
⌈>	**Ge**	**72**		ug/L			46335	44585	0	KED
|	**Cu**	**63**	**8.528**	ug/L	0.012	0	52	38329	0	KED
|	**Cu**	**65**	**8.338**	ug/L	0.184	2	27	19265	1	KED
|	**Zn**	**66**	**18.302**	ug/L	0.142	0	27	10990	1	KED
|	**Zn**	**67**	**17.436**	ug/L	0.156	0	8	1775	1	KED
⌊	**As**	**75**	**5.408**	ug/L	0.052	0	3	1730	0	KED
	Y	**89**		ug/L			375682	391975	2	Standard
	Kr	**83**		ug/L			51	57	15	Standard
⌈>	**In-1**	**115**		ug/L			10677	10076	1	KED
|	**Cd**	**111**	**5.396**	ug/L	0.124	2	4	1688	1	KED
⌊	**Cd**	**114**	**5.416**	ug/L	0.115	2	3	4373	0	KED
⌈>	**In**	**115**		ug/L			621777	596559	0	Standard
⌊	**Ag**	**107**	**5.229**	ug/L	0.057	1	111	102444	0	Standard
⌈>	**Tb**	**159**		ug/L			1460500	1474364	0	Standard
⌊	**Pb**	**208**	**5.559**	ug/L	0.011	0	229	500593	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL7
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 01, 2023 21:44:54
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			40288	48740	1	Standard
⌈>	**Sc**	**45**		ug/L			754240	783155	1	Standard
|	**Cr**	**52**	**0.031**	ug/L	0.030	96	19104	20623	2	Standard
|	**Cr**	**53**	**-0.002**	ug/L	0.006	269	152	152	11	Standard
|	**Fe**	**54**	**0.448**	ug/L	1.551	345	83156	87443	3	Standard
|	**Fe**	**57**	**6.302**	ug/L	0.782	12	19734	26931	1	Standard
⌊	**Mn**	**55**	**0.014**	ug/L	0.000	2	501	1094	0	Standard
⌈>	**Ge**	**72**		ug/L			46335	46268	0	KED
|	**Cu**	**63**	**0.027**	ug/L	0.003	9	52	177	7	KED
|	**Cu**	**65**	**0.021**	ug/L	0.007	34	27	78	22	KED
|	**Zn**	**66**	**0.265**	ug/L	0.042	15	27	192	13	KED
|	**Zn**	**67**	**0.229**	ug/L	0.017	7	8	32	5	KED
⌊	**As**	**75**	**-0.004**	ug/L	0.001	33	3	2	20	KED
	Y	**89**		ug/L			375682	388556	3	Standard
	Kr	**83**		ug/L			51	43	27	Standard
⌈>	**In-1**	**115**		ug/L			10677	10676	2	KED
|	**Cd**	**111**	**0.006**	ug/L	0.009	155	4	6	50	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.002	109	3	5	35	KED
⌈>	**In**	**115**		ug/L			621777	619553	1	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.000	12	111	144	2	Standard
⌈>	**Tb**	**159**		ug/L			1460500	1500773	0	Standard
⌊	**Pb**	**208**	**0.008**	ug/L	0.000	3	229	942	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV7
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 01, 2023 21:49:27
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			40288	43292	2	Standard
⌈>	**Sc**	**45**		ug/L			754240	777905	1	Standard
|	**Cr**	**52**	**47.318**	ug/L	1.387	2	19104	1233611	1	Standard
|	**Cr**	**53**	**47.097**	ug/L	0.534	1	152	141215	0	Standard
|	**Fe**	**54**	**5003.419**	ug/L	110.186	2	83156	12561896	2	Standard
|	**Fe**	**57**	**4965.672**	ug/L	174.906	3	19734	5064349	2	Standard
⌊	**Mn**	**55**	**47.986**	ug/L	0.461	0	501	1894350	1	Standard
⌈>	**Ge**	**72**		ug/L			46335	46309	0	KED
|	**Cu**	**63**	**52.339**	ug/L	0.950	1	52	244061	2	KED
|	**Cu**	**65**	**51.706**	ug/L	0.051	0	27	123945	0	KED
|	**Zn**	**66**	**52.150**	ug/L	0.701	1	27	32474	0	KED
|	**Zn**	**67**	**50.716**	ug/L	1.729	3	8	5348	2	KED
⌊	**As**	**75**	**49.541**	ug/L	0.803	1	3	16433	0	KED
	Y	**89**		ug/L			375682	400598	0	Standard
	Kr	**83**		ug/L			51	73	1	Standard
⌈>	**In-1**	**115**		ug/L			10677	10646	1	KED
|	**Cd**	**111**	**51.230**	ug/L	1.308	2	4	16901	1	KED
⌊	**Cd**	**114**	**50.222**	ug/L	1.697	3	3	42810	2	KED
⌈>	**In**	**115**		ug/L			621777	609682	1	Standard
⌊	**Ag**	**107**	**50.640**	ug/L	0.591	1	111	1012937	1	Standard
⌈>	**Tb**	**159**		ug/L			1460500	1511758	0	Standard
⌊	**Pb**	**208**	**53.014**	ug/L	0.617	1	229	4892970	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB7
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 01, 2023 21:56:44
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			40288	41203	1	Standard
⌈>	**Sc**	**45**		ug/L			754240	777461	2	Standard
|	**Cr**	**52**	**-0.012**	ug/L	0.015	122	19104	19367	0	Standard
|	**Cr**	**53**	**-0.015**	ug/L	0.003	17	152	111	4	Standard
|	**Fe**	**54**	**-0.210**	ug/L	1.019	485	83156	85151	0	Standard
|	**Fe**	**57**	**-0.653**	ug/L	0.367	56	19734	19673	1	Standard
⌊	**Mn**	**55**	**-0.000**	ug/L	0.001	276	501	506	5	Standard
⌈>	**Ge**	**72**		ug/L			46335	47523	0	KED
|	**Cu**	**63**	**0.001**	ug/L	0.001	116	52	58	9	KED
|	**Cu**	**65**	**-0.001**	ug/L	0.002	183	27	26	18	KED
|	**Zn**	**66**	**0.015**	ug/L	0.016	107	27	38	26	KED
|	**Zn**	**67**	**-0.025**	ug/L	0.018	69	8	5	33	KED
⌊	**As**	**75**	**0.000**	ug/L	0.007	3856	3	3	56	KED
	Y	**89**		ug/L			375682	391556	2	Standard
	Kr	**83**		ug/L			51	47	28	Standard
⌈>	**In-1**	**115**		ug/L			10677	11021	1	KED
|	**Cd**	**111**	**-0.000**	ug/L	0.004	1135	4	4	35	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.004	189	3	5	58	KED
⌈>	**In**	**115**		ug/L			621777	623768	2	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.000	10	111	156	1	Standard
⌈>	**Tb**	**159**		ug/L			1460500	1484167	0	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	46	229	299	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0002-01
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 01, 2023 22:01:18
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			40288	83661	2	Standard
>	Sc	45		ug/L			754240	819367	3	Standard
	Cr	52	0.439	ug/L	0.025	5	19104	32617	1	Standard
	Cr	53	0.775	ug/L	0.025	3	152	2611	4	Standard
	Fe	54	389.182	ug/L	7.813	2	83156	1112177	1	Standard
	Fe	57	396.693	ug/L	8.820	2	19734	445806	1	Standard
	Mn	55	3.771	ug/L	0.118	3	501	157234	0	Standard
>	Ge	72		ug/L			46335	45165	1	KED
	Cu	63	2.508	ug/L	0.055	2	52	11452	0	KED
	Cu	65	2.443	ug/L	0.040	1	27	5737	1	KED
	Zn	66	3.939	ug/L	0.181	4	27	2417	4	KED
	Zn	67	3.903	ug/L	0.023	0	8	408	0	KED
	As	75	0.994	ug/L	0.016	1	3	325	0	KED
	Y	89		ug/L			375682	407141	3	Standard
	Kr	83		ug/L			51	46	37	Standard
>	In-1	115		ug/L			10677	10439	2	KED
	Cd	111	0.010	ug/L	0.009	91	4	7	41	KED
	Cd	114	0.016	ug/L	0.005	29	3	16	23	KED
>	In	115		ug/L			621777	612600	1	Standard
	Ag	107	0.002	ug/L	0.000	14	111	154	4	Standard
>	Tb	159		ug/L			1460500	1484800	0	Standard
	Pb	208	0.110	ug/L	0.001	0	229	10245	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0002-02
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 01, 2023 22:05:51
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			40288	81118	0	Standard
⌈>	**Sc**	**45**		ug/L			754240	810918	0	Standard
|	**Cr**	**52**	**0.396**	ug/L	0.002	0	19104	31137	0	Standard
|	**Cr**	**53**	**0.729**	ug/L	0.007	0	152	2439	1	Standard
|	**Fe**	**54**	**304.877**	ug/L	1.627	0	83156	881970	1	Standard
|	**Fe**	**57**	**319.546**	ug/L	4.535	1	19734	359700	1	Standard
⌊	**Mn**	**55**	**0.929**	ug/L	0.008	0	501	38784	1	Standard
⌈>	**Ge**	**72**		ug/L			46335	45356	0	KED
|	**Cu**	**63**	**2.411**	ug/L	0.057	2	52	11060	2	KED
|	**Cu**	**65**	**2.358**	ug/L	0.008	0	27	5561	0	KED
|	**Zn**	**66**	**5.693**	ug/L	0.088	1	27	3496	0	KED
|	**Zn**	**67**	**5.319**	ug/L	0.067	1	8	556	1	KED
⌊	**As**	**75**	**0.971**	ug/L	0.031	3	3	319	3	KED
	Y	**89**		ug/L			375682	400350	1	Standard
	Kr	**83**		ug/L			51	51	23	Standard
⌈>	**In-1**	**115**		ug/L			10677	10385	0	KED
|	**Cd**	**111**	**0.001**	ug/L	0.006	458	4	4	44	KED
⌊	**Cd**	**114**	**0.007**	ug/L	0.006	92	3	9	56	KED
⌈>	**In**	**115**		ug/L			621777	608628	1	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.001	79	111	129	13	Standard
⌈>	**Tb**	**159**		ug/L			1460500	1500350	1	Standard
⌊	**Pb**	**208**	**0.076**	ug/L	0.001	1	229	7203	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0002-05
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 01, 2023 22:10:23
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			40288	82125	1	Standard
⌈>	**Sc**	**45**		ug/L			754240	834249	1	Standard
|	**Cr**	**52**	**0.488**	ug/L	0.009	1	19104	34565	2	Standard
|	**Cr**	**53**	**0.728**	ug/L	0.015	2	152	2507	3	Standard
|	**Fe**	**54**	**918.012**	ug/L	4.300	0	83156	2546988	0	Standard
|	**Fe**	**57**	**910.731**	ug/L	23.313	2	19734	1014412	3	Standard
⌊	**Mn**	**55**	**215.482**	ug/L	3.441	1	501	9122194	2	Standard
⌈>	**Ge**	**72**		ug/L			46335	45840	1	KED
|	**Cu**	**63**	**3.710**	ug/L	0.083	2	52	17172	3	KED
|	**Cu**	**65**	**3.631**	ug/L	0.070	1	27	8640	1	KED
|	**Zn**	**66**	**29.828**	ug/L	0.120	0	27	18399	0	KED
|	**Zn**	**67**	**28.066**	ug/L	0.840	2	8	2933	2	KED
⌊	**As**	**75**	**1.508**	ug/L	0.043	2	3	498	1	KED
	Y	**89**		ug/L			375682	397596	3	Standard
	Kr	**83**		ug/L			51	86	15	Standard
⌈>	**In-1**	**115**		ug/L			10677	10704	1	KED
|	**Cd**	**111**	**0.027**	ug/L	0.011	42	4	13	27	KED
⌊	**Cd**	**114**	**0.031**	ug/L	0.011	33	3	30	28	KED
⌈>	**In**	**115**		ug/L			621777	605853	1	Standard
⌊	**Ag**	**107**	**0.004**	ug/L	0.001	15	111	192	8	Standard
⌈>	**Tb**	**159**		ug/L			1460500	1489252	1	Standard
⌊	**Pb**	**208**	**0.176**	ug/L	0.002	0	229	16270	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0002-06
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 01, 2023 22:14:56
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			40288	85536	1	Standard
⌈>	**Sc**	**45**		ug/L			754240	839061	2	Standard
|	**Cr**	**52**	**0.454**	ug/L	0.026	5	19104	33817	2	Standard
|	**Cr**	**53**	**0.682**	ug/L	0.012	1	152	2372	3	Standard
|	**Fe**	**54**	**664.333**	ug/L	10.715	1	83156	1879519	2	Standard
|	**Fe**	**57**	**674.371**	ug/L	13.685	2	19734	761015	2	Standard
⌊	**Mn**	**55**	**209.159**	ug/L	5.275	2	501	8902791	1	Standard
⌈>	**Ge**	**72**		ug/L			46335	45262	1	KED
|	**Cu**	**63**	**3.419**	ug/L	0.052	1	52	15626	0	KED
|	**Cu**	**65**	**3.451**	ug/L	0.086	2	27	8108	1	KED
|	**Zn**	**66**	**27.384**	ug/L	0.430	1	27	16679	1	KED
|	**Zn**	**67**	**25.764**	ug/L	0.515	1	8	2659	1	KED
⌊	**As**	**75**	**1.315**	ug/L	0.045	3	3	429	2	KED
	Y	**89**		ug/L			375682	395576	2	Standard
	Kr	**83**		ug/L			51	80	6	Standard
⌈>	**In-1**	**115**		ug/L			10677	10453	1	KED
|	**Cd**	**111**	**0.020**	ug/L	0.016	82	4	10	50	KED
⌊	**Cd**	**114**	**0.029**	ug/L	0.007	24	3	27	21	KED
⌈>	**In**	**115**		ug/L			621777	620506	2	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.002	78	111	158	20	Standard
⌈>	**Tb**	**159**		ug/L			1460500	1521734	0	Standard
⌊	**Pb**	**208**	**0.127**	ug/L	0.002	1	229	12080	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0002-03
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, May 01, 2023 22:19:28
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			40288	69023	1	Standard
⌈>	**Sc**	**45**		ug/L			754240	802896	1	Standard
|	**Cr**	**52**	**1.277**	ug/L	0.068	5	19104	54151	2	Standard
|	**Cr**	**53**	**1.330**	ug/L	0.016	1	152	4274	1	Standard
|	**Fe**	**54**	**541.878**	ug/L	10.849	2	83156	1483115	1	Standard
|	**Fe**	**57**	**517.555**	ug/L	1.154	0	19734	563798	1	Standard
⌊	**Mn**	**55**	**60.832**	ug/L	1.199	1	501	2478456	1	Standard
⌈>	**Ge**	**72**		ug/L			46335	47111	0	KED
|	**Cu**	**63**	**7.228**	ug/L	0.170	2	52	34332	1	KED
|	**Cu**	**65**	**7.291**	ug/L	0.095	1	27	17804	2	KED
|	**Zn**	**66**	**108.599**	ug/L	0.237	0	27	68770	0	KED
|	**Zn**	**67**	**98.968**	ug/L	1.568	1	8	10611	0	KED
⌊	**As**	**75**	**0.654**	ug/L	0.038	5	3	224	5	KED
	Y	**89**		ug/L			375682	390456	4	Standard
	Kr	**83**		ug/L			51	49	13	Standard
⌈>	**In-1**	**115**		ug/L			10677	11086	0	KED
|	**Cd**	**111**	**0.102**	ug/L	0.006	5	4	39	5	KED
⌊	**Cd**	**114**	**0.105**	ug/L	0.023	22	3	96	21	KED
⌈>	**In**	**115**		ug/L			621777	632710	2	Standard
⌊	**Ag**	**107**	**0.004**	ug/L	0.001	17	111	188	8	Standard
⌈>	**Tb**	**159**		ug/L			1460500	1502082	0	Standard
⌊	**Pb**	**208**	**0.979**	ug/L	0.014	1	229	89976	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0002-04
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, May 01, 2023 22:24:00
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			40288	72690	2	Standard
⌈>	**Sc**	**45**		ug/L			754240	758411	8	Standard
|	**Cr**	**52**	**1.201**	ug/L	0.122	10	19104	49102	2	Standard
|	**Cr**	**53**	**1.238**	ug/L	0.100	8	152	3754	3	Standard
|	**Fe**	**54**	**147.468**	ug/L	10.248	6	83156	440817	2	Standard
|	**Fe**	**57**	**138.078**	ug/L	10.728	7	19734	156069	2	Standard
⌊	**Mn**	**55**	**52.051**	ug/L	3.507	6	501	1996900	3	Standard
⌈>	**Ge**	**72**		ug/L			46335	48261	1	KED
|	**Cu**	**63**	**6.216**	ug/L	0.132	2	52	30249	1	KED
|	**Cu**	**65**	**6.235**	ug/L	0.155	2	27	15598	1	KED
|	**Zn**	**66**	**114.352**	ug/L	1.466	1	27	74174	0	KED
|	**Zn**	**67**	**104.697**	ug/L	0.759	0	8	11499	1	KED
⌊	**As**	**75**	**0.416**	ug/L	0.011	2	3	147	1	KED
	Y	**89**		ug/L			375682	381173	10	Standard
	Kr	**83**		ug/L			51	66	15	Standard
⌈>	**In-1**	**115**		ug/L			10677	11098	1	KED
|	**Cd**	**111**	**0.092**	ug/L	0.017	18	4	35	17	KED
⌊	**Cd**	**114**	**0.088**	ug/L	0.008	8	3	82	9	KED
⌈>	**In**	**115**		ug/L			621777	588499	9	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.001	72	111	142	25	Standard
⌈>	**Tb**	**159**		ug/L			1460500	1441409	8	Standard
⌊	**Pb**	**208**	**0.485**	ug/L	0.046	9	229	42679	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0584-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, May 01, 2023 22:28:57
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			40288	67058	1	Standard
⌈>	Sc	45		ug/L			754240	884163	1	Standard
|	Cr	52	0.014	ug/L	0.011	82	19104	22797	1	Standard
|	Cr	53	0.224	ug/L	0.019	8	152	940	6	Standard
|	Fe	54	155.586	ug/L	3.467	2	83156	538536	2	Standard
|	Fe	57	173.685	ug/L	0.468	0	19734	223724	1	Standard
⌊	Mn	55	68.903	ug/L	0.299	0	501	3091589	0	Standard
⌈>	Ge	72		ug/L			46335	46681	1	KED
|	Cu	63	0.191	ug/L	0.007	3	52	948	1	KED
|	Cu	65	0.176	ug/L	0.017	9	27	452	10	KED
|	Zn	66	3.133	ug/L	0.150	4	27	1992	3	KED
|	Zn	67	3.205	ug/L	0.355	11	8	348	10	KED
⌊	As	75	0.289	ug/L	0.017	5	3	100	3	KED
	Y	89		ug/L			375682	395303	1	Standard
	Kr	83		ug/L			51	59	16	Standard
⌈>	In-1	115		ug/L			10677	10903	0	KED
|	Cd	111	0.018	ug/L	0.013	75	4	10	44	KED
⌊	Cd	114	0.022	ug/L	0.005	22	3	23	19	KED
⌈>	In	115		ug/L			621777	607232	4	Standard
⌊	Ag	107	0.000	ug/L	0.001	327	111	114	19	Standard
⌈>	Tb	159		ug/L			1460500	1502941	0	Standard
⌊	Pb	208	0.057	ug/L	0.001	1	229	5431	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0180-DUP3
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, May 01, 2023 22:33:23
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			40288	66749	1	Standard
>	Sc	45		ug/L			754240	882215	2	Standard
	Cr	52	-0.013	ug/L	0.024	189	19104	21968	1	Standard
	Cr	53	0.228	ug/L	0.003	1	152	954	2	Standard
	Fe	54	159.187	ug/L	0.975	0	83156	547500	2	Standard
	Fe	57	177.878	ug/L	4.314	2	19734	228128	4	Standard
	Mn	55	68.938	ug/L	1.321	1	501	3087154	3	Standard
>	Ge	72		ug/L			46335	44688	1	KED
	Cu	63	0.138	ug/L	0.005	3	52	670	2	KED
	Cu	65	0.148	ug/L	0.012	7	27	370	8	KED
	Zn	66	0.900	ug/L	0.085	9	27	566	7	KED
	Zn	67	1.289	ug/L	0.118	9	8	139	9	KED
	As	75	0.301	ug/L	0.021	7	3	100	8	KED
	Y	89		ug/L			375682	375257	2	Standard
	Kr	83		ug/L			51	120	89	Standard
>	In-1	115		ug/L			10677	10681	2	KED
	Cd	111	0.018	ug/L	0.011	59	4	10	32	KED
	Cd	114	0.011	ug/L	0.006	51	3	13	38	KED
>	In	115		ug/L			621777	596622	5	Standard
	Ag	107	0.004	ug/L	0.006	166	111	175	61	Standard
>	Tb	159		ug/L			1460500	1475161	3	Standard
	Pb	208	0.049	ug/L	0.005	9	229	4628	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0180-MS3
Sample Dil Factor: 2
Comments:
Sample Date/Time: Monday, May 01, 2023 22:39:20
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			40288	64999	1	Standard
>	Sc	45		ug/L			754240	876069	1	Standard
	Cr	52	11.021	ug/L	0.234	2	19104	340631	1	Standard
	Cr	53	11.337	ug/L	0.117	1	152	38420	2	Standard
	Fe	54	2528.705	ug/L	29.559	1	83156	7198103	2	Standard
	Fe	57	2535.815	ug/L	49.115	1	19734	2924370	1	Standard
	Mn	55	83.729	ug/L	1.085	1	501	3721815	0	Standard
>	Ge	72		ug/L			46335	45986	0	KED
	Cu	63	13.473	ug/L	0.268	1	52	62417	1	KED
	Cu	65	13.206	ug/L	0.123	0	27	31457	1	KED
	Zn	66	42.837	ug/L	0.519	1	27	26496	1	KED
	Zn	67	39.116	ug/L	1.167	2	8	4099	3	KED
	As	75	13.376	ug/L	0.093	0	3	4408	0	KED
	Y	89		ug/L			375682	393857	3	Standard
	Kr	83		ug/L			51	62	31	Standard
>	In-1	115		ug/L			10677	10714	1	KED
	Cd	111	13.112	ug/L	0.185	1	4	4357	0	KED
	Cd	114	12.899	ug/L	0.202	1	3	11070	1	KED
>	In	115		ug/L			621777	606818	2	Standard
	Ag	107	12.985	ug/L	0.334	2	111	258474	0	Standard
>	Tb	159		ug/L			1460500	1504075	1	Standard
	Pb	208	13.583	ug/L	0.233	1	229	1247373	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL8
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 01, 2023 22:43:47
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			40288	47566	0	Standard
⌈>	**Sc**	**45**		ug/L			754240	772044	2	Standard
|	**Cr**	**52**	**0.019**	ug/L	0.014	72	19104	20031	1	Standard
|	**Cr**	**53**	**0.007**	ug/L	0.003	35	152	177	2	Standard
|	**Fe**	**54**	**0.084**	ug/L	0.939	1111	83156	85283	0	Standard
|	**Fe**	**57**	**-3.303**	ug/L	0.465	14	19734	16860	0	Standard
⌊	**Mn**	**55**	**0.018**	ug/L	0.001	6	501	1215	2	Standard
⌈>	**Ge**	**72**		ug/L			46335	46406	0	KED
|	**Cu**	**63**	**0.031**	ug/L	0.014	43	52	198	32	KED
|	**Cu**	**65**	**0.038**	ug/L	0.021	53	27	120	41	KED
|	**Zn**	**66**	**0.310**	ug/L	0.055	17	27	221	15	KED
|	**Zn**	**67**	**0.240**	ug/L	0.054	22	8	33	17	KED
⌊	**As**	**75**	**0.005**	ug/L	0.016	330	3	5	96	KED
	Y	**89**		ug/L			375682	379583	2	Standard
	Kr	**83**		ug/L			51	59	38	Standard
⌈>	**In-1**	**115**		ug/L			10677	10798	1	KED
|	**Cd**	**111**	**-0.006**	ug/L	0.003	57	4	2	49	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.002	234	3	2	77	KED
⌈>	**In**	**115**		ug/L			621777	615662	2	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.000	38	111	127	2	Standard
⌈>	**Tb**	**159**		ug/L			1460500	1464422	0	Standard
⌊	**Pb**	**208**	**0.008**	ug/L	0.000	4	229	931	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV8
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 01, 2023 22:48:20
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			40288	44086	2	Standard
⌈>	**Sc**	**45**		ug/L			754240	789128	0	Standard
|	**Cr**	**52**	**48.135**	ug/L	0.737	1	19104	1273062	1	Standard
|	**Cr**	**53**	**47.971**	ug/L	0.741	1	152	145928	1	Standard
|	**Fe**	**54**	**5064.330**	ug/L	55.845	1	83156	12898544	1	Standard
|	**Fe**	**57**	**5077.407**	ug/L	43.092	0	19734	5254230	0	Standard
⌊	**Mn**	**55**	**48.976**	ug/L	0.638	1	501	1961531	1	Standard
⌈>	**Ge**	**72**		ug/L			46335	46768	0	KED
|	**Cu**	**63**	**51.093**	ug/L	0.463	0	52	240605	0	KED
|	**Cu**	**65**	**50.351**	ug/L	0.729	1	27	121889	1	KED
|	**Zn**	**66**	**51.409**	ug/L	0.969	1	27	32331	1	KED
|	**Zn**	**67**	**50.663**	ug/L	0.221	0	8	5397	0	KED
⌊	**As**	**75**	**49.562**	ug/L	0.192	0	3	16604	0	KED
	Y	**89**		ug/L			375682	396866	1	Standard
	Kr	**83**		ug/L			51	52	11	Standard
⌈>	**In-1**	**115**		ug/L			10677	10910	1	KED
|	**Cd**	**111**	**50.742**	ug/L	1.108	2	4	17155	0	KED
⌊	**Cd**	**114**	**50.871**	ug/L	1.304	2	3	44439	0	KED
⌈>	**In**	**115**		ug/L			621777	602230	0	Standard
⌊	**Ag**	**107**	**50.317**	ug/L	0.582	1	111	994110	0	Standard
⌈>	**Tb**	**159**		ug/L			1460500	1507981	0	Standard
⌊	**Pb**	**208**	**52.338**	ug/L	0.091	0	229	4818832	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB8
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 01, 2023 22:55:37
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			40288	42338	0	Standard
⌈>	**Sc**	**45**		ug/L			754240	796758	1	Standard
|	**Cr**	**52**	**-0.014**	ug/L	0.009	65	19104	19822	0	Standard
|	**Cr**	**53**	**-0.002**	ug/L	0.002	75	152	154	2	Standard
|	**Fe**	**54**	**0.111**	ug/L	0.692	624	83156	88117	1	Standard
|	**Fe**	**57**	**-1.673**	ug/L	0.714	42	19734	19100	2	Standard
⌊	**Mn**	**55**	**0.001**	ug/L	0.001	56	501	586	5	Standard
⌈>	**Ge**	**72**		ug/L			46335	47641	2	KED
|	**Cu**	**63**	**0.002**	ug/L	0.002	92	52	64	16	KED
|	**Cu**	**65**	**-0.002**	ug/L	0.004	228	27	24	33	KED
|	**Zn**	**66**	**0.004**	ug/L	0.009	254	27	31	21	KED
|	**Zn**	**67**	**-0.038**	ug/L	0.026	68	8	4	65	KED
⌊	**As**	**75**	**0.003**	ug/L	0.011	394	3	4	72	KED
	Y	**89**		ug/L			375682	382444	1	Standard
	Kr	**83**		ug/L			51	42	22	Standard
⌈>	**In-1**	**115**		ug/L			10677	11457	0	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.005	263	4	3	43	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.003	193	3	2	119	KED
⌈>	**In**	**115**		ug/L			621777	620819	2	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.000	46	111	130	6	Standard
⌈>	**Tb**	**159**		ug/L			1460500	1474572	2	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	28	229	302	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0672-13
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 01, 2023 23:00:11
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			40288	72636	1	Standard
⌈>	**Sc**	**45**		ug/L			754240	872831	1	Standard
|	**Cr**	**52**	**0.082**	ug/L	0.004	5	19104	24475	1	Standard
|	**Cr**	**53**	**0.367**	ug/L	0.011	3	152	1409	2	Standard
|	**Fe**	**54**	**6.197**	ug/L	0.907	14	83156	113542	0	Standard
|	**Fe**	**57**	**27.182**	ug/L	0.971	3	19734	53821	1	Standard
⌊	**Mn**	**55**	**0.100**	ug/L	0.001	0	501	5016	2	Standard
⌈>	**Ge**	**72**		ug/L			46335	46504	0	KED
|	**Cu**	**63**	**731.537**	ug/L	5.293	0	52	3424823	0	KED
|	**Cu**	**65**	**707.673**	ug/L	5.975	0	27	1703245	1	KED
|	**Zn**	**66**	**12.341**	ug/L	0.369	2	27	7738	2	KED
|	**Zn**	**67**	**11.324**	ug/L	0.477	4	8	1205	3	KED
⌊	**As**	**75**	**0.191**	ug/L	0.001	0	3	67	1	KED
	Y	**89**		ug/L			375682	387018	0	Standard
	Kr	**83**		ug/L			51	46	6	Standard
⌈>	**In-1**	**115**		ug/L			10677	11043	2	KED
|	**Cd**	**111**	**-0.007**	ug/L	0.003	38	4	1	50	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.000	16	3	5	1	KED
⌈>	**In**	**115**		ug/L			621777	612406	0	Standard
⌊	**Ag**	**107**	**0.009**	ug/L	0.002	17	111	286	10	Standard
⌈>	**Tb**	**159**		ug/L			1460500	1483453	0	Standard
⌊	**Pb**	**208**	**1.362**	ug/L	0.028	2	229	123588	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0672-14
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 01, 2023 23:04:38
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			40288	71736	0	Standard
⌈>	**Sc**	**45**		ug/L			754240	892169	2	Standard
|	**Cr**	**52**	**0.188**	ug/L	0.012	6	19104	28126	1	Standard
|	**Cr**	**53**	**0.544**	ug/L	0.028	5	152	2047	2	Standard
|	**Fe**	**54**	**4.488**	ug/L	0.419	9	83156	111208	3	Standard
|	**Fe**	**57**	**29.092**	ug/L	1.156	3	19734	57226	1	Standard
⌊	**Mn**	**55**	**0.148**	ug/L	0.001	0	501	7285	1	Standard
⌈>	**Ge**	**72**		ug/L			46335	45925	0	KED
|	**Cu**	**63**	**486.229**	ug/L	8.413	1	52	2247924	1	KED
|	**Cu**	**65**	**463.254**	ug/L	5.112	1	27	1101006	0	KED
|	**Zn**	**66**	**10.963**	ug/L	0.124	1	27	6792	1	KED
|	**Zn**	**67**	**10.386**	ug/L	0.938	9	8	1092	8	KED
⌊	**As**	**75**	**0.369**	ug/L	0.027	7	3	125	6	KED
	Y	**89**		ug/L			375682	385099	1	Standard
	Kr	**83**		ug/L			51	38	37	Standard
⌈>	**In-1**	**115**		ug/L			10677	10684	1	KED
|	**Cd**	**111**	**-0.001**	ug/L	0.005	517	4	3	43	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.005	274	3	2	216	KED
⌈>	**In**	**115**		ug/L			621777	601772	0	Standard
⌊	**Ag**	**107**	**0.008**	ug/L	0.001	18	111	257	10	Standard
⌈>	**Tb**	**159**		ug/L			1460500	1489099	1	Standard
⌊	**Pb**	**208**	**2.409**	ug/L	0.029	1	229	219197	0	Standard

23C0672

ICP-MS Quantitative Analysis - Summary Report

Sample ID: ~~23C0678~~-02
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 01, 2023 23:09:04

MB 5/1/23

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			40288	74425	0	Standard
>	Sc	45		ug/L			754240	856815	2	Standard
	Cr	52	0.144	ug/L	0.012	8	19104	25763	3	Standard
	Cr	53	0.383	ug/L	0.001	0	152	1435	2	Standard
	Fe	54	1.499	ug/L	0.733	48	83156	98556	1	Standard
	Fe	57	23.338	ug/L	0.931	3	19734	48527	2	Standard
	Mn	55	0.080	ug/L	0.001	1	501	4029	2	Standard
>	Ge	72		ug/L			46335	46120	0	KED
	Cu	63	330.043	ug/L	3.850	1	52	1532406	0	KED
	Cu	65	329.787	ug/L	2.943	0	27	787141	0	KED
	Zn	66	19.584	ug/L	0.363	1	27	12163	1	KED
	Zn	67	17.978	ug/L	0.445	2	8	1894	2	KED
	As	75	0.155	ug/L	0.014	8	3	55	8	KED
	Y	89		ug/L			375682	386478	1	Standard
	Kr	83		ug/L			51	56	14	Standard
>	In-1	115		ug/L			10677	10591	1	KED
	Cd	111	-0.002	ug/L	0.011	640	4	3	103	KED
	Cd	114	0.007	ug/L	0.011	149	3	9	94	KED
>	In	115		ug/L			621777	596904	1	Standard
	Ag	107	0.029	ug/L	0.001	3	111	671	2	Standard
>	Tb	159		ug/L			1460500	1489521	1	Standard
	Pb	208	0.236	ug/L	0.004	1	229	21697	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0672-01
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 01, 2023 23:13:31
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			40288	71934	0	Standard
>	Sc	45		ug/L			754240	917053	2	Standard
	Cr	52	0.080	ug/L	0.002	2	19104	25661	2	Standard
	Cr	53	0.442	ug/L	0.015	3	152	1744	2	Standard
	Fe	54	1.083	ug/L	0.164	15	83156	104284	2	Standard
	Fe	57	20.221	ug/L	0.568	2	19734	48207	1	Standard
	Mn	55	1.909	ug/L	0.004	0	501	89455	2	Standard
>	Ge	72		ug/L			46335	46015	0	KED
	Cu	63	82.311	ug/L	0.776	0	52	381338	0	KED
	Cu	65	81.093	ug/L	1.531	1	27	193124	1	KED
	Zn	66	2.166	ug/L	0.067	3	27	1367	3	KED
	Zn	67	2.021	ug/L	0.055	2	8	219	3	KED
	As	75	0.322	ug/L	0.006	1	3	110	2	KED
	Y	89		ug/L			375682	382573	1	Standard
	Kr	83		ug/L			51	46	6	Standard
>	In-1	115		ug/L			10677	10763	2	KED
	Cd	111	-0.008	ug/L	0.006	78	4	1	124	KED
	Cd	114	0.003	ug/L	0.003	83	3	6	34	KED
>	In	115		ug/L			621777	605165	1	Standard
	Ag	107	0.004	ug/L	0.001	18	111	194	9	Standard
>	Tb	159		ug/L			1460500	1484648	0	Standard
	Pb	208	0.132	ug/L	0.001	1	229	12233	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0672-03
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 01, 2023 23:17:57
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			40288	73045	1	Standard
>	Sc	45		ug/L			754240	888669	1	Standard
	Cr	52	0.109	ug/L	0.004	3	19104	25701	2	Standard
	Cr	53	0.408	ug/L	0.019	4	152	1575	2	Standard
	Fe	54	5.373	ug/L	0.902	16	83156	113257	0	Standard
	Fe	57	14.228	ug/L	0.493	3	19734	39771	2	Standard
	Mn	55	0.331	ug/L	0.003	1	501	15536	1	Standard
>	Ge	72		ug/L			46335	45794	0	KED
	Cu	63	48.389	ug/L	0.166	0	52	223136	0	KED
	Cu	65	47.642	ug/L	0.735	1	27	112933	1	KED
	Zn	66	4.340	ug/L	0.072	1	27	2698	1	KED
	Zn	67	4.061	ug/L	0.210	5	8	431	5	KED
	As	75	0.445	ug/L	0.027	6	3	149	5	KED
	Y	89		ug/L			375682	387652	0	Standard
	Kr	83		ug/L			51	43	6	Standard
>	In-1	115		ug/L			10677	10573	1	KED
	Cd	111	0.000	ug/L	0.002	1352	4	4	13	KED
	Cd	114	-0.003	ug/L	0.002	72	3	0	225	KED
>	In	115		ug/L			621777	590349	2	Standard
	Ag	107	0.020	ug/L	0.001	6	111	495	3	Standard
>	Tb	159		ug/L			1460500	1469638	2	Standard
	Pb	208	0.094	ug/L	0.003	2	229	8637	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0672-04
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 01, 2023 23:22:24
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			40288	72770	2	Standard
>	Sc	45		ug/L			754240	866550	1	Standard
	Cr	52	0.062	ug/L	0.012	19	19104	23710	2	Standard
	Cr	53	0.266	ug/L	0.004	1	152	1064	1	Standard
	Fe	54	4.903	ug/L	0.071	1	83156	109159	1	Standard
	Fe	57	6.960	ug/L	0.516	7	19734	30554	3	Standard
	Mn	55	1.461	ug/L	0.002	0	501	64831	1	Standard
>	Ge	72		ug/L			46335	47526	1	KED
	Cu	63	19.625	ug/L	0.754	3	52	93911	2	KED
	Cu	65	19.304	ug/L	1.212	6	27	47468	4	KED
	Zn	66	3.022	ug/L	0.154	5	27	1957	4	KED
	Zn	67	2.725	ug/L	0.145	5	8	302	4	KED
	As	75	0.143	ug/L	0.028	19	3	52	16	KED
	Y	89		ug/L			375682	385286	0	Standard
	Kr	83		ug/L			51	44	23	Standard
>	In-1	115		ug/L			10677	10531	0	KED
	Cd	111	0.001	ug/L	0.007	637	4	4	53	KED
	Cd	114	0.005	ug/L	0.006	122	3	7	63	KED
>	In	115		ug/L			621777	596554	2	Standard
	Ag	107	0.004	ug/L	0.001	19	111	186	8	Standard
>	Tb	159		ug/L			1460500	1478920	1	Standard
	Pb	208	0.043	ug/L	0.001	2	229	4153	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0672-05
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 01, 2023 23:26:50
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			40288	74350	2	Standard
>	Sc	45		ug/L			754240	869694	0	Standard
	Cr	52	0.029	ug/L	0.006	21	19104	22856	0	Standard
	Cr	53	0.253	ug/L	0.007	2	152	1024	2	Standard
	Fe	54	3.563	ug/L	0.713	20	83156	105825	2	Standard
	Fe	57	6.552	ug/L	0.137	2	19734	30198	1	Standard
	Mn	55	7.137	ug/L	0.005	0	501	315531	0	Standard
>	Ge	72		ug/L			46335	46154	1	KED
	Cu	63	40.109	ug/L	0.505	1	52	186432	2	KED
	Cu	65	39.367	ug/L	0.226	0	27	94060	1	KED
	Zn	66	2.213	ug/L	0.040	1	27	1400	1	KED
	Zn	67	2.146	ug/L	0.310	14	8	233	14	KED
	As	75	0.148	ug/L	0.001	0	3	52	1	KED
	Y	89		ug/L			375682	378772	0	Standard
	Kr	83		ug/L			51	46	6	Standard
>	In-1	115		ug/L			10677	10596	1	KED
	Cd	111	-0.003	ug/L	0.003	122	4	3	34	KED
	Cd	114	0.002	ug/L	0.006	291	3	5	92	KED
>	In	115		ug/L			621777	601823	2	Standard
	Ag	107	0.001	ug/L	0.001	63	111	130	8	Standard
>	Tb	159		ug/L			1460500	1475693	0	Standard
	Pb	208	0.063	ug/L	0.001	1	229	5898	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0672-06
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 01, 2023 23:31:47
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			40288	72394	1	Standard
>	Sc	45		ug/L			754240	866478	2	Standard
	Cr	52	0.050	ug/L	0.012	23	19104	23381	1	Standard
	Cr	53	0.259	ug/L	0.011	4	152	1040	5	Standard
	Fe	54	1.466	ug/L	0.252	17	83156	99609	2	Standard
	Fe	57	5.952	ug/L	0.476	8	19734	29403	2	Standard
	Mn	55	30.406	ug/L	0.588	1	501	1337120	1	Standard
>	Ge	72		ug/L			46335	46318	0	KED
	Cu	63	4.730	ug/L	0.038	0	52	22107	0	KED
	Cu	65	4.639	ug/L	0.052	1	27	11147	1	KED
	Zn	66	3.286	ug/L	0.081	2	27	2073	2	KED
	Zn	67	3.116	ug/L	0.338	10	8	336	10	KED
	As	75	0.142	ug/L	0.013	9	3	50	8	KED
	Y	89		ug/L			375682	388147	5	Standard
	Kr	83		ug/L			51	55	12	Standard
>	In-1	115		ug/L			10677	10626	1	KED
	Cd	111	0.011	ug/L	0.003	23	4	7	12	KED
	Cd	114	0.006	ug/L	0.004	58	3	8	35	KED
>	In	115		ug/L			621777	622045	3	Standard
	Ag	107	-0.001	ug/L	0.001	90	111	92	18	Standard
>	Tb	159		ug/L			1460500	1504185	1	Standard
	Pb	208	0.088	ug/L	0.002	1	229	8357	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0672-07
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 01, 2023 23:37:43
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			40288	73480	0	Standard
>	Sc	45		ug/L			754240	887140	2	Standard
	Cr	52	0.037	ug/L	0.008	22	19104	23543	2	Standard
	Cr	53	0.241	ug/L	0.005	1	152	1004	4	Standard
	Fe	54	3.556	ug/L	0.848	23	83156	107880	1	Standard
	Fe	57	5.687	ug/L	0.272	4	19734	29807	3	Standard
	Mn	55	0.475	ug/L	0.014	2	501	21960	0	Standard
>	Ge	72		ug/L			46335	48078	1	KED
	Cu	63	12.460	ug/L	0.059	0	52	60358	0	KED
	Cu	65	12.440	ug/L	0.308	2	27	30978	2	KED
	Zn	66	1.784	ug/L	0.037	2	27	1181	1	KED
	Zn	67	1.785	ug/L	0.051	2	8	203	3	KED
	As	75	0.165	ug/L	0.010	5	3	60	6	KED
	Y	89		ug/L			375682	384168	3	Standard
	Kr	83		ug/L			51	55	5	Standard
>	In-1	115		ug/L			10677	11270	2	KED
	Cd	111	0.001	ug/L	0.003	231	4	4	20	KED
	Cd	114	0.001	ug/L	0.002	189	3	4	39	KED
>	In	115		ug/L			621777	625602	1	Standard
	Ag	107	0.003	ug/L	0.001	30	111	168	11	Standard
>	Tb	159		ug/L			1460500	1516866	0	Standard
	Pb	208	0.056	ug/L	0.001	0	229	5393	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL9
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 01, 2023 23:42:41
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			40288	47978	2	Standard
⌈>	**Sc**	**45**		ug/L			754240	783403	2	Standard
|	**Cr**	**52**	**0.021**	ug/L	0.020	92	19104	20385	0	Standard
|	**Cr**	**53**	**0.011**	ug/L	0.005	45	152	193	10	Standard
|	**Fe**	**54**	**0.285**	ug/L	0.518	182	83156	87075	2	Standard
|	**Fe**	**57**	**-1.953**	ug/L	0.494	25	19734	18492	2	Standard
⌊	**Mn**	**55**	**0.018**	ug/L	0.002	9	501	1251	8	Standard
⌈>	**Ge**	**72**		ug/L			46335	47123	0	KED
|	**Cu**	**63**	**0.023**	ug/L	0.005	19	52	164	13	KED
|	**Cu**	**65**	**0.021**	ug/L	0.007	30	27	80	20	KED
|	**Zn**	**66**	**0.240**	ug/L	0.021	8	27	180	7	KED
|	**Zn**	**67**	**0.259**	ug/L	0.093	36	8	36	27	KED
⌊	**As**	**75**	**-0.004**	ug/L	0.001	21	3	2	10	KED
	Y	**89**		ug/L			375682	380402	0	Standard
	Kr	**83**		ug/L			51	60	13	Standard
⌈>	**In-1**	**115**		ug/L			10677	10903	3	KED
|	**Cd**	**111**	**0.003**	ug/L	0.006	233	4	5	39	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.003	278	3	4	60	KED
⌈>	**In**	**115**		ug/L			621777	608737	3	Standard
⌊	**Ag**	**107**	**-0.002**	ug/L	0.000	10	111	76	6	Standard
⌈>	**Tb**	**159**		ug/L			1460500	1463084	1	Standard
⌊	**Pb**	**208**	**0.007**	ug/L	0.000	4	229	871	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV9
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 01, 2023 23:47:14
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			40288	43693	2	Standard
⌈>	**Sc**	**45**		ug/L			754240	788763	1	Standard
|	**Cr**	**52**	**47.604**	ug/L	0.574	1	19104	1258488	1	Standard
|	**Cr**	**53**	**47.706**	ug/L	0.636	1	152	145041	1	Standard
|	**Fe**	**54**	**5041.793**	ug/L	8.455	0	83156	12835462	1	Standard
|	**Fe**	**57**	**5087.654**	ug/L	126.747	2	19734	5261887	2	Standard
⌊	**Mn**	**55**	**48.478**	ug/L	0.614	1	501	1940728	2	Standard
⌈>	**Ge**	**72**		ug/L			46335	46992	0	KED
|	**Cu**	**63**	**51.757**	ug/L	1.061	2	52	244899	1	KED
|	**Cu**	**65**	**51.697**	ug/L	1.264	2	27	125748	2	KED
|	**Zn**	**66**	**51.270**	ug/L	0.615	1	27	32400	1	KED
|	**Zn**	**67**	**50.706**	ug/L	0.279	0	8	5427	0	KED
⌊	**As**	**75**	**49.520**	ug/L	0.216	0	3	16670	0	KED
	Y	**89**		ug/L			375682	385160	2	Standard
	Kr	**83**		ug/L			51	68	10	Standard
⌈>	**In-1**	**115**		ug/L			10677	11015	1	KED
|	**Cd**	**111**	**50.465**	ug/L	0.986	1	4	17227	1	KED
⌊	**Cd**	**114**	**49.802**	ug/L	0.374	0	3	43933	0	KED
⌈>	**In**	**115**		ug/L			621777	576943	2	Standard
⌊	**Ag**	**107**	**51.733**	ug/L	2.190	4	111	978462	1	Standard
⌈>	**Tb**	**159**		ug/L			1460500	1480504	0	Standard
⌊	**Pb**	**208**	**52.452**	ug/L	0.226	0	229	4741381	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB9
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 01, 2023 23:54:31
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			40288	42281	1	Standard
⌈>	**Sc**	**45**		ug/L			754240	774404	1	Standard
|	**Cr**	**52**	**0.011**	ug/L	0.012	110	19104	19895	2	Standard
|	**Cr**	**53**	**0.000**	ug/L	0.002	716	152	157	5	Standard
|	**Fe**	**54**	**-0.136**	ug/L	0.150	110	83156	85046	2	Standard
|	**Fe**	**57**	**0.966**	ug/L	0.354	36	19734	21241	3	Standard
⌊	**Mn**	**55**	**0.000**	ug/L	0.000	105	501	527	3	Standard
⌈>	**Ge**	**72**		ug/L			46335	47371	1	KED
|	**Cu**	**63**	**0.002**	ug/L	0.002	75	52	64	12	KED
|	**Cu**	**65**	**0.001**	ug/L	0.002	273	27	30	16	KED
|	**Zn**	**66**	**0.007**	ug/L	0.008	108	27	33	13	KED
|	**Zn**	**67**	**-0.031**	ug/L	0.055	178	8	5	114	KED
⌊	**As**	**75**	**0.002**	ug/L	0.004	190	3	4	29	KED
	Y	**89**		ug/L			375682	381014	3	Standard
	Kr	**83**		ug/L			51	58	10	Standard
⌈>	**In-1**	**115**		ug/L			10677	11304	1	KED
|	**Cd**	**111**	**-0.001**	ug/L	0.004	657	4	4	35	KED
⌊	**Cd**	**114**	**0.003**	ug/L	0.003	81	3	6	33	KED
⌈>	**In**	**115**		ug/L			621777	597369	1	Standard
⌊	**Ag**	**107**	**0.000**	ug/L	0.001	481	111	113	24	Standard
⌈>	**Tb**	**159**		ug/L			1460500	1456658	1	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	35	229	324	11	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0672-08
Sample Dil Factor:
Comments:
Sample Date/Time: Monday, May 01, 2023 23:59:04
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			40288	72481	0	Standard
>	Sc	45		ug/L			754240	885075	0	Standard
	Cr	52	0.093	ug/L	0.031	32	19104	25145	3	Standard
	Cr	53	0.261	ug/L	0.026	10	152	1068	7	Standard
	Fe	54	7.932	ug/L	2.213	27	83156	120070	4	Standard
	Fe	57	11.767	ug/L	2.680	22	19734	36754	8	Standard
	Mn	55	0.762	ug/L	0.043	5	501	34801	5	Standard
>	Ge	72		ug/L			46335	47606	2	KED
	Cu	63	7.805	ug/L	0.230	2	52	37443	1	KED
	Cu	65	7.855	ug/L	0.167	2	27	19375	1	KED
	Zn	66	2.932	ug/L	0.175	5	27	1902	3	KED
	Zn	67	2.637	ug/L	0.051	1	8	293	0	KED
	As	75	0.161	ug/L	0.013	7	3	58	6	KED
	Y	89		ug/L			375682	390322	3	Standard
	Kr	83		ug/L			51	50	27	Standard
>	In-1	115		ug/L			10677	11169	0	KED
	Cd	111	-0.001	ug/L	0.006	384	4	3	50	KED
	Cd	114	-0.001	ug/L	0.006	840	3	3	159	KED
>	In	115		ug/L			621777	614473	0	Standard
	Ag	107	0.015	ug/L	0.025	171	111	405	124	Standard
>	Tb	159		ug/L			1460500	1489017	2	Standard
	Pb	208	0.126	ug/L	0.028	22	229	11621	19	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0672-09
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 00:03:31
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			40288	73528	2	Standard
>	Sc	45		ug/L			754240	889722	1	Standard
	Cr	52	0.085	ug/L	0.019	22	19104	25033	2	Standard
	Cr	53	0.286	ug/L	0.015	5	152	1161	5	Standard
	Fe	54	7.631	ug/L	0.375	4	83156	119858	1	Standard
	Fe	57	10.501	ug/L	1.254	11	19734	35480	4	Standard
	Mn	55	0.804	ug/L	0.025	3	501	36893	3	Standard
>	Ge	72		ug/L			46335	47979	2	KED
	Cu	63	25.639	ug/L	0.402	1	52	123886	2	KED
	Cu	65	25.358	ug/L	0.848	3	27	62968	2	KED
	Zn	66	2.901	ug/L	0.048	1	27	1899	3	KED
	Zn	67	2.788	ug/L	0.415	14	8	312	13	KED
	As	75	0.145	ug/L	0.008	5	3	53	4	KED
	Y	89		ug/L			375682	393861	0	Standard
	Kr	83		ug/L			51	43	29	Standard
>	In-1	115		ug/L			10677	9375	31	KED
	Cd	111	0.002	ug/L	0.011	612	4	3	41	KED
	Cd	114	0.004	ug/L	0.016	353	3	4	185	KED
>	In	115		ug/L			621777	624552	0	Standard
	Ag	107	-0.001	ug/L	0.001	68	111	90	15	Standard
>	Tb	159		ug/L			1460500	1507056	1	Standard
	Pb	208	0.032	ug/L	0.000	1	229	3142	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0672-10
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 00:07:58
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			40288	76242	2	Standard
>	Sc	45		ug/L			754240	856464	1	Standard
	Cr	52	0.191	ug/L	0.011	6	19104	27076	0	Standard
	Cr	53	0.437	ug/L	0.003	0	152	1615	1	Standard
	Fe	54	19.076	ug/L	0.737	3	83156	146799	1	Standard
	Fe	57	27.769	ug/L	1.041	3	19734	53467	1	Standard
	Mn	55	0.795	ug/L	0.018	2	501	35097	1	Standard
>	Ge	72		ug/L			46335	47960	1	KED
	Cu	63	15.149	ug/L	0.285	1	52	73188	1	KED
	Cu	65	14.720	ug/L	0.172	1	27	36561	1	KED
	Zn	66	1.678	ug/L	0.129	7	27	1109	6	KED
	Zn	67	1.633	ug/L	0.232	14	8	186	13	KED
	As	75	0.360	ug/L	0.023	6	3	127	4	KED
	Y	89		ug/L			375682	394987	1	Standard
	Kr	83		ug/L			51	44	16	Standard
>	In-1	115		ug/L			10677	11305	0	KED
	Cd	111	-0.004	ug/L	0.000	1	4	2	0	KED
	Cd	114	0.003	ug/L	0.003	110	3	6	43	KED
>	In	115		ug/L			621777	617651	2	Standard
	Ag	107	0.001	ug/L	0.000	20	111	138	6	Standard
>	Tb	159		ug/L			1460500	1496712	1	Standard
	Pb	208	0.061	ug/L	0.002	2	229	5832	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0672-11
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 00:12:24
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			40288	74659	2	Standard
> Sc	45		ug/L			754240	998583	1	Standard
Cr	52	-0.078	ug/L	0.020	25	19104	22702	1	Standard
Cr	53	0.453	ug/L	0.019	4	152	1943	4	Standard
Fe	54	-0.907	ug/L	0.537	59	83156	107171	0	Standard
Fe	57	23.744	ug/L	1.819	7	19734	57070	2	Standard
Mn	55	0.068	ug/L	0.001	2	501	4130	2	Standard
> Ge	72		ug/L			46335	46466	0	KED
Cu	63	87.712	ug/L	0.730	0	52	410349	0	KED
Cu	65	86.340	ug/L	1.146	1	27	207651	1	KED
Zn	66	7.025	ug/L	0.244	3	27	4414	3	KED
Zn	67	6.207	ug/L	0.183	2	8	664	2	KED
As	75	1.849	ug/L	0.061	3	3	619	3	KED
Y	89		ug/L			375682	394577	2	Standard
Kr	83		ug/L			51	59	27	Standard
> In-1	115		ug/L			10677	10624	0	KED
Cd	111	0.000	ug/L	0.007	10863	4	4	58	KED
Cd	114	0.004	ug/L	0.005	131	3	6	59	KED
> In	115		ug/L			621777	623740	0	Standard
Ag	107	0.002	ug/L	0.001	46	111	159	14	Standard
> Tb	159		ug/L			1460500	1502770	0	Standard
Pb	208	0.093	ug/L	0.002	1	229	8773	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0672-12
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 00:16:50
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			40288	75534	1	Standard
>	Sc	45		ug/L			754240	861225	1	Standard
	Cr	52	0.170	ug/L	0.017	9	19104	26648	2	Standard
	Cr	53	0.412	ug/L	0.007	1	152	1541	0	Standard
	Fe	54	26.865	ug/L	0.450	1	83156	169115	1	Standard
	Fe	57	35.942	ug/L	1.091	3	19734	62970	2	Standard
	Mn	55	1.551	ug/L	0.016	1	501	68357	1	Standard
>	Ge	72		ug/L			46335	47843	0	KED
	Cu	63	139.798	ug/L	0.756	0	52	673382	0	KED
	Cu	65	138.292	ug/L	1.714	1	27	342431	1	KED
	Zn	66	17.497	ug/L	0.396	2	27	11276	1	KED
	Zn	67	16.406	ug/L	0.559	3	8	1793	3	KED
	As	75	0.338	ug/L	0.039	11	3	119	10	KED
	Y	89		ug/L			375682	394590	0	Standard
	Kr	83		ug/L			51	48	18	Standard
>	In-1	115		ug/L			10677	11119	2	KED
	Cd	111	-0.002	ug/L	0.006	235	4	3	56	KED
	Cd	114	0.002	ug/L	0.005	276	3	5	76	KED
>	In	115		ug/L			621777	618614	1	Standard
	Ag	107	0.009	ug/L	0.000	3	111	300	1	Standard
>	Tb	159		ug/L			1460500	1542144	1	Standard
	Pb	208	0.432	ug/L	0.009	2	229	40877	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0672-15
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 00:21:46
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			40288	73809	1	Standard
>	Sc	45		ug/L			754240	969116	0	Standard
	Cr	52	0.202	ug/L	0.010	4	19104	31016	1	Standard
	Cr	53	0.644	ug/L	0.029	4	152	2600	4	Standard
	Fe	54	0.347	ug/L	0.190	54	83156	107922	0	Standard
	Fe	57	33.926	ug/L	0.650	1	19734	68305	1	Standard
	Mn	55	0.042	ug/L	0.002	3	501	2700	2	Standard
>	Ge	72		ug/L			46335	45691	1	KED
	Cu	63	169.526	ug/L	1.999	1	52	779874	1	KED
	Cu	65	167.896	ug/L	1.078	0	27	397015	0	KED
	Zn	66	3.544	ug/L	0.031	0	27	2203	0	KED
	Zn	67	3.381	ug/L	0.132	3	8	359	2	KED
	As	75	1.006	ug/L	0.041	4	3	332	3	KED
	Y	89		ug/L			375682	382679	0	Standard
	Kr	83		ug/L			51	46	8	Standard
>	In-1	115		ug/L			10677	10714	3	KED
	Cd	111	0.009	ug/L	0.009	93	4	7	41	KED
	Cd	114	0.011	ug/L	0.010	83	3	13	58	KED
>	In	115		ug/L			621777	592882	1	Standard
	Ag	107	0.004	ug/L	0.001	25	111	189	11	Standard
>	Tb	159		ug/L			1460500	1470076	0	Standard
	Pb	208	0.084	ug/L	0.002	2	229	7811	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0672-16
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 00:27:43
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			40288	70848	1	Standard
>	Sc	45		ug/L			754240	972491	0	Standard
	Cr	52	0.078	ug/L	0.018	22	19104	27139	2	Standard
	Cr	53	0.517	ug/L	0.014	2	152	2133	2	Standard
	Fe	54	-2.218	ug/L	0.135	6	83156	100305	0	Standard
	Fe	57	30.564	ug/L	1.013	3	19734	64269	2	Standard
	Mn	55	0.044	ug/L	0.000	0	501	2800	0	Standard
>	Ge	72		ug/L			46335	45312	0	KED
	Cu	63	148.779	ug/L	0.980	0	52	678719	0	KED
	Cu	65	144.877	ug/L	1.582	1	27	339772	1	KED
	Zn	66	20.252	ug/L	0.269	1	27	12356	0	KED
	Zn	67	18.618	ug/L	0.776	4	8	1927	4	KED
	As	75	1.035	ug/L	0.018	1	3	339	1	KED
	Y	89		ug/L			375682	387219	4	Standard
	Kr	83		ug/L			51	50	5	Standard
>	In-1	115		ug/L			10677	10801	4	KED
	Cd	111	0.002	ug/L	0.002	135	4	4	20	KED
	Cd	114	0.005	ug/L	0.003	46	3	8	28	KED
>	In	115		ug/L			621777	590449	1	Standard
	Ag	107	0.008	ug/L	0.001	14	111	252	8	Standard
>	Tb	159		ug/L			1460500	1499014	1	Standard
	Pb	208	0.102	ug/L	0.005	4	229	9572	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0370-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 00:35:40
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			40288	83058	1	Standard
⌈>	**Sc**	**45**		ug/L			754240	911842	3	Standard
|	**Cr**	**52**	**0.563**	ug/L	0.035	6	19104	40007	2	Standard
|	**Cr**	**53**	**22.171**	ug/L	0.327	1	152	78024	3	Standard
|	**Fe**	**54**	**154.559**	ug/L	4.719	3	83156	552151	3	Standard
|	**Fe**	**57**	**210.106**	ug/L	6.790	3	19734	273902	0	Standard
⌊	**Mn**	**55**	**29.748**	ug/L	0.704	2	501	1376392	2	Standard
⌈>	**Ge**	**72**		ug/L			46335	42392	0	KED
|	**Cu**	**63**	**1.719**	ug/L	0.021	1	52	7384	2	KED
|	**Cu**	**65**	**1.690**	ug/L	0.051	3	27	3733	2	KED
|	**Zn**	**66**	**24.000**	ug/L	0.079	0	27	13695	0	KED
|	**Zn**	**67**	**22.604**	ug/L	0.653	2	8	2186	2	KED
⌊	**As**	**75**	**0.568**	ug/L	0.020	3	3	176	3	KED
	Y	**89**		ug/L			375682	358967	2	Standard
	Kr	**83**		ug/L			51	83	22	Standard
⌈>	**In-1**	**115**		ug/L			10677	9871	1	KED
|	**Cd**	**111**	**0.043**	ug/L	0.007	16	4	16	13	KED
⌊	**Cd**	**114**	**0.038**	ug/L	0.002	5	3	33	3	KED
⌈>	**In**	**115**		ug/L			621777	515854	3	Standard
⌊	**Ag**	**107**	**0.035**	ug/L	0.002	5	111	679	5	Standard
⌈>	**Tb**	**159**		ug/L			1460500	1413611	0	Standard
⌊	**Pb**	**208**	**0.111**	ug/L	0.002	1	229	9824	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0370-03
Sample Dil Factor: 5
Comments:
Sample Date/Time: Tuesday, May 02, 2023 00:40:12
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			40288	59464	0	Standard
⌈>	**Sc**	**45**		ug/L			754240	814095	2	Standard
|	**Cr**	**52**	**0.095**	ug/L	0.032	33	19104	23160	1	Standard
|	**Cr**	**53**	**0.658**	ug/L	0.028	4	152	2227	1	Standard
|	**Fe**	**54**	**2.601**	ug/L	1.119	43	83156	96506	2	Standard
|	**Fe**	**57**	**9.207**	ug/L	0.653	7	19734	31081	1	Standard
⌊	**Mn**	**55**	**0.476**	ug/L	0.016	3	501	20173	1	Standard
⌈>	**Ge**	**72**		ug/L			46335	47608	1	KED
|	**Cu**	**63**	**26.945**	ug/L	0.235	0	52	129199	1	KED
|	**Cu**	**65**	**27.267**	ug/L	0.297	1	27	67204	1	KED
|	**Zn**	**66**	**5.694**	ug/L	0.100	1	27	3670	0	KED
|	**Zn**	**67**	**5.043**	ug/L	0.301	5	8	554	4	KED
⌊	**As**	**75**	**0.122**	ug/L	0.009	7	3	45	8	KED
	Y	**89**		ug/L			375682	381717	2	Standard
	Kr	**83**		ug/L			51	48	16	Standard
⌈>	**In-1**	**115**		ug/L			10677	11110	1	KED
|	**Cd**	**111**	**0.015**	ug/L	0.011	70	4	9	40	KED
⌊	**Cd**	**114**	**0.007**	ug/L	0.001	15	3	9	11	KED
⌈>	**In**	**115**		ug/L			621777	614901	1	Standard
⌊	**Ag**	**107**	**0.005**	ug/L	0.001	19	111	220	7	Standard
⌈>	**Tb**	**159**		ug/L			1460500	1489918	0	Standard
⌊	**Pb**	**208**	**0.355**	ug/L	0.011	2	229	32529	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLA
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 00:44:45
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			40288	48162	1	Standard
⌈>	**Sc**	**45**		ug/L			754240	787272	2	Standard
|	**Cr**	**52**	**0.049**	ug/L	0.023	47	19104	21203	2	Standard
|	**Cr**	**53**	**0.299**	ug/L	0.016	5	152	1066	5	Standard
|	**Fe**	**54**	**0.565**	ug/L	0.895	158	83156	88191	0	Standard
|	**Fe**	**57**	**3.023**	ug/L	0.147	4	19734	23706	2	Standard
⌊	**Mn**	**55**	**0.016**	ug/L	0.001	5	501	1157	3	Standard
⌈>	**Ge**	**72**		ug/L			46335	46776	1	KED
|	**Cu**	**63**	**0.038**	ug/L	0.018	47	52	233	36	KED
|	**Cu**	**65**	**0.034**	ug/L	0.016	48	27	109	35	KED
|	**Zn**	**66**	**0.271**	ug/L	0.028	10	27	198	10	KED
|	**Zn**	**67**	**0.184**	ug/L	0.057	30	8	27	21	KED
⌊	**As**	**75**	**-0.003**	ug/L	0.005	157	3	2	66	KED
	Y	**89**		ug/L			375682	378479	2	Standard
	Kr	**83**		ug/L			51	47	10	Standard
⌈>	**In-1**	**115**		ug/L			10677	11040	0	KED
|	**Cd**	**111**	**-0.000**	ug/L	0.002	392	4	4	13	KED
⌊	**Cd**	**114**	**0.000**	ug/L	0.001	377	3	4	26	KED
⌈>	**In**	**115**		ug/L			621777	608723	3	Standard
⌊	**Ag**	**107**	**-0.002**	ug/L	0.001	43	111	62	32	Standard
⌈>	**Tb**	**159**		ug/L			1460500	1472432	2	Standard
⌊	**Pb**	**208**	**0.008**	ug/L	0.000	4	229	920	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVA
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 00:49:19
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			40288	44629	0	Standard
⌈>	**Sc**	**45**		ug/L			754240	801292	0	Standard
|	**Cr**	**52**	**47.945**	ug/L	0.256	0	19104	1287682	0	Standard
|	**Cr**	**53**	**47.423**	ug/L	0.327	0	152	146481	0	Standard
|	**Fe**	**54**	**5020.040**	ug/L	47.712	0	83156	12983300	0	Standard
|	**Fe**	**57**	**5006.182**	ug/L	54.898	1	19734	5260870	1	Standard
⌊	**Mn**	**55**	**49.333**	ug/L	1.274	2	501	2006255	2	Standard
⌈>	**Ge**	**72**		ug/L			46335	46743	2	KED
|	**Cu**	**63**	**51.986**	ug/L	0.474	0	52	244651	1	KED
|	**Cu**	**65**	**50.736**	ug/L	0.953	1	27	122725	0	KED
|	**Zn**	**66**	**51.486**	ug/L	1.483	2	27	32350	0	KED
|	**Zn**	**67**	**52.014**	ug/L	0.602	1	8	5536	1	KED
⌊	**As**	**75**	**50.038**	ug/L	1.202	2	3	16749	0	KED
	Y	**89**		ug/L			375682	391387	1	Standard
	Kr	**83**		ug/L			51	60	35	Standard
⌈>	**In-1**	**115**		ug/L			10677	10887	1	KED
|	**Cd**	**111**	**50.859**	ug/L	1.255	2	4	17157	0	KED
⌊	**Cd**	**114**	**50.848**	ug/L	0.909	1	3	44330	1	KED
⌈>	**In**	**115**		ug/L			621777	602259	0	Standard
⌊	**Ag**	**107**	**51.025**	ug/L	0.837	1	111	1008254	2	Standard
⌈>	**Tb**	**159**		ug/L			1460500	1481138	0	Standard
⌊	**Pb**	**208**	**53.509**	ug/L	0.718	1	229	4838668	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBA
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 00:56:36
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			40288	42353	1	Standard
⌈>	**Sc**	**45**		ug/L			754240	777937	1	Standard
|	**Cr**	**52**	**0.026**	ug/L	0.015	56	19104	20382	2	Standard
|	**Cr**	**53**	**0.121**	ug/L	0.003	2	152	518	2	Standard
|	**Fe**	**54**	**0.966**	ug/L	0.077	7	83156	88176	1	Standard
|	**Fe**	**57**	**-0.773**	ug/L	0.422	54	19734	19568	2	Standard
⌊	**Mn**	**55**	**0.001**	ug/L	0.000	14	501	558	2	Standard
⌈>	**Ge**	**72**		ug/L			46335	47706	0	KED
|	**Cu**	**63**	**0.002**	ug/L	0.003	143	52	63	22	KED
|	**Cu**	**65**	**0.002**	ug/L	0.002	79	27	33	11	KED
|	**Zn**	**66**	**0.010**	ug/L	0.009	95	27	34	16	KED
|	**Zn**	**67**	**0.009**	ug/L	0.017	182	8	9	20	KED
⌊	**As**	**75**	**0.001**	ug/L	0.009	1609	3	4	76	KED
	Y	**89**		ug/L			375682	376300	2	Standard
	Kr	**83**		ug/L			51	48	23	Standard
⌈>	**In-1**	**115**		ug/L			10677	11325	2	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.007	422	4	3	66	KED
⌊	**Cd**	**114**	**-0.004**	ug/L	0.001	31	3	0	295	KED
⌈>	**In**	**115**		ug/L			621777	612120	0	Standard
⌊	**Ag**	**107**	**0.000**	ug/L	0.001	263	111	120	22	Standard
⌈>	**Tb**	**159**		ug/L			1460500	1465584	0	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	25	229	273	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 01:01:09
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				41950	2	Standard
⌈>	**Sc**	**45**		ug/L				787622	0	Standard
|	**Cr**	**52**		ug/L				20663	0	Standard
|	**Cr**	**53**		ug/L				443	3	Standard
|	**Fe**	**54**		ug/L				87170	1	Standard
|	**Fe**	**57**		ug/L				19734	3	Standard
⌊	**Mn**	**55**		ug/L				543	3	Standard
⌈>	**Ge**	**72**		ug/L				47594	1	KED
|	**Cu**	**63**		ug/L				50	11	KED
|	**Cu**	**65**		ug/L				27	21	KED
|	**Zn**	**66**		ug/L				27	40	KED
|	**Zn**	**67**		ug/L				7	43	KED
⌊	**As**	**75**		ug/L				4	35	KED
	Y	**89**		ug/L				383646	1	Standard
	Kr	**83**		ug/L				57	13	Standard
⌈>	**In-1**	**115**		ug/L				11160	1	KED
|	**Cd**	**111**		ug/L				5	53	KED
⌊	**Cd**	**114**		ug/L				4	100	KED
⌈>	**In**	**115**		ug/L				610701	1	Standard
⌊	**Ag**	**107**		ug/L				85	6	Standard
⌈>	**Tb**	**159**		ug/L				1474680	0	Standard
⌊	**Pb**	**208**		ug/L				274	16	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVB
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 01:05:42
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			41950	43821	3	Standard
⌈>	**Sc**	**45**		ug/L			787622	786100	1	Standard
|	**Cr**	**52**	**48.303**	ug/L	0.693	1	20663	1273234	1	Standard
|	**Cr**	**53**	**47.844**	ug/L	0.887	1	443	145276	2	Standard
|	**Fe**	**54**	**5131.292**	ug/L	121.720	2	87170	13020460	3	Standard
|	**Fe**	**57**	**5168.725**	ug/L	53.074	1	19734	5326899	1	Standard
⌊	**Mn**	**55**	**49.300**	ug/L	1.791	3	543	1967447	4	Standard
⌈>	**Ge**	**72**		ug/L			47594	47362	1	KED
|	**Cu**	**63**	**51.543**	ug/L	0.547	1	50	245795	0	KED
|	**Cu**	**65**	**50.710**	ug/L	0.703	1	27	124311	0	KED
|	**Zn**	**66**	**51.106**	ug/L	1.092	2	27	32546	1	KED
|	**Zn**	**67**	**50.282**	ug/L	0.888	1	7	5423	0	KED
⌊	**As**	**75**	**49.974**	ug/L	0.548	1	4	16954	0	KED
	Y	**89**		ug/L			383646	387524	1	Standard
	Kr	**83**		ug/L			57	67	25	Standard
⌈>	**In-1**	**115**		ug/L			11160	10916	0	KED
|	**Cd**	**111**	**51.728**	ug/L	0.257	0	5	17502	0	KED
⌊	**Cd**	**114**	**51.384**	ug/L	0.606	1	4	44923	1	KED
⌈>	**In**	**115**		ug/L			610701	599658	0	Standard
⌊	**Ag**	**107**	**51.004**	ug/L	0.653	1	85	1003440	1	Standard
⌈>	**Tb**	**159**		ug/L			1474680	1476487	2	Standard
⌊	**Pb**	**208**	**52.766**	ug/L	0.916	1	274	4755758	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBB
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 01:12:59
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			41950	42292	0	Standard
⌈>	**Sc**	**45**		ug/L			787622	777618	0	Standard
|	**Cr**	**52**	**-0.008**	ug/L	0.015	195	20663	20207	2	Standard
|	**Cr**	**53**	**-0.038**	ug/L	0.006	14	443	323	6	Standard
|	**Fe**	**54**	**0.561**	ug/L	0.112	19	87170	87463	1	Standard
|	**Fe**	**57**	**0.756**	ug/L	0.133	17	19734	20251	0	Standard
⌊	**Mn**	**55**	**0.000**	ug/L	0.000	142	543	548	2	Standard
⌈>	**Ge**	**72**		ug/L			47594	47806	0	KED
|	**Cu**	**63**	**0.003**	ug/L	0.002	88	50	62	16	KED
|	**Cu**	**65**	**0.003**	ug/L	0.004	129	27	34	26	KED
|	**Zn**	**66**	**-0.005**	ug/L	0.012	229	27	24	29	KED
|	**Zn**	**67**	**0.005**	ug/L	0.036	675	7	8	48	KED
⌊	**As**	**75**	**0.000**	ug/L	0.003	674	4	4	22	KED
	Y	**89**		ug/L			383646	375748	2	Standard
	Kr	**83**		ug/L			57	48	8	Standard
⌈>	**In-1**	**115**		ug/L			11160	11417	0	KED
|	**Cd**	**111**	**-0.000**	ug/L	0.011	2673	5	5	71	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.000	9	4	3	2	KED
⌈>	**In**	**115**		ug/L			610701	599607	3	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.001	34	85	126	14	Standard
⌈>	**Tb**	**159**		ug/L			1474680	1469831	1	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	8	274	339	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0584-04
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 01:17:32
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			41950	54463	1	Standard
⌈>	**Sc**	**45**		ug/L			787622	819467	1	Standard
|	**Cr**	**52**	**0.007**	ug/L	0.014	196	20663	21691	1	Standard
|	**Cr**	**53**	**0.056**	ug/L	0.008	14	443	637	4	Standard
|	**Fe**	**54**	**196.417**	ug/L	3.539	1	87170	606648	1	Standard
|	**Fe**	**57**	**199.475**	ug/L	2.496	1	19734	234045	1	Standard
⌊	**Mn**	**55**	**64.862**	ug/L	0.840	1	543	2697155	0	Standard
⌈>	**Ge**	**72**		ug/L			47594	47382	1	KED
|	**Cu**	**63**	**0.018**	ug/L	0.002	11	50	137	7	KED
|	**Cu**	**65**	**0.020**	ug/L	0.004	17	27	76	10	KED
|	**Zn**	**66**	**0.049**	ug/L	0.008	17	27	58	8	KED
|	**Zn**	**67**	**0.314**	ug/L	0.126	40	7	41	31	KED
⌊	**As**	**75**	**0.045**	ug/L	0.009	20	4	19	14	KED
	Y	**89**		ug/L			383646	391579	1	Standard
	Kr	**83**		ug/L			57	49	6	Standard
⌈>	**In-1**	**115**		ug/L			11160	11208	1	KED
|	**Cd**	**111**	**-0.005**	ug/L	0.010	218	5	3	90	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.002	320	4	4	44	KED
⌈>	**In**	**115**		ug/L			610701	611243	1	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.001	137	85	100	21	Standard
⌈>	**Tb**	**159**		ug/L			1474680	1494825	0	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	42	274	297	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0584-03
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 01:22:05
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			41950	52963	1	Standard
⌈>	**Sc**	**45**		ug/L			787622	804387	1	Standard
|	**Cr**	**52**	**0.029**	ug/L	0.014	48	20663	21874	0	Standard
|	**Cr**	**53**	**0.062**	ug/L	0.013	20	443	644	5	Standard
|	**Fe**	**54**	**197.148**	ug/L	1.464	0	87170	597417	1	Standard
|	**Fe**	**57**	**196.253**	ug/L	1.744	0	19734	226355	1	Standard
⌊	**Mn**	**55**	**63.816**	ug/L	0.756	1	543	2605074	1	Standard
⌈>	**Ge**	**72**		ug/L			47594	47132	0	KED
|	**Cu**	**63**	**0.024**	ug/L	0.006	26	50	161	18	KED
|	**Cu**	**65**	**0.023**	ug/L	0.007	32	27	83	21	KED
|	**Zn**	**66**	**0.085**	ug/L	0.009	10	27	80	7	KED
|	**Zn**	**67**	**0.279**	ug/L	0.039	14	7	37	11	KED
⌊	**As**	**75**	**0.057**	ug/L	0.005	9	4	23	8	KED
	Y	**89**		ug/L			383646	383717	1	Standard
	Kr	**83**		ug/L			57	44	13	Standard
⌈>	**In-1**	**115**		ug/L			11160	11078	1	KED
|	**Cd**	**111**	**-0.003**	ug/L	0.004	161	5	4	32	KED
⌊	**Cd**	**114**	**0.000**	ug/L	0.001	614	4	4	23	KED
⌈>	**In**	**115**		ug/L			610701	605649	2	Standard
⌊	**Ag**	**107**	**0.000**	ug/L	0.000	604	85	86	7	Standard
⌈>	**Tb**	**159**		ug/L			1474680	1486626	0	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	41	274	326	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0584-13
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 01:26:38
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			41950	53836	0	Standard
⌈>	**Sc**	**45**		ug/L			787622	800768	0	Standard
|	**Cr**	**52**	**0.130**	ug/L	0.020	15	20663	24448	1	Standard
|	**Cr**	**53**	**0.074**	ug/L	0.012	16	443	678	5	Standard
|	**Fe**	**54**	**66.136**	ug/L	1.378	2	87170	258403	1	Standard
|	**Fe**	**57**	**67.942**	ug/L	2.030	2	19734	91137	2	Standard
⌊	**Mn**	**55**	**47.620**	ug/L	0.804	1	543	1935495	2	Standard
⌈>	**Ge**	**72**		ug/L			47594	47569	0	KED
|	**Cu**	**63**	**0.195**	ug/L	0.003	1	50	984	2	KED
|	**Cu**	**65**	**0.199**	ug/L	0.012	6	27	517	5	KED
|	**Zn**	**66**	**0.640**	ug/L	0.009	1	27	436	1	KED
|	**Zn**	**67**	**0.733**	ug/L	0.128	17	7	86	16	KED
⌊	**As**	**75**	**0.023**	ug/L	0.010	42	4	11	28	KED
	Y	**89**		ug/L			383646	383928	0	Standard
	Kr	**83**		ug/L			57	56	10	Standard
⌈>	**In-1**	**115**		ug/L			11160	11150	0	KED
|	**Cd**	**111**	**0.006**	ug/L	0.002	31	5	7	7	KED
⌊	**Cd**	**114**	**0.006**	ug/L	0.002	38	4	9	20	KED
⌈>	**In**	**115**		ug/L			610701	609413	1	Standard
⌊	**Ag**	**107**	**-0.000**	ug/L	0.001	514	85	82	17	Standard
⌈>	**Tb**	**159**		ug/L			1474680	1477688	1	Standard
⌊	**Pb**	**208**	**0.027**	ug/L	0.001	4	274	2718	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0584-05
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 01:31:04
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			41950	89284	2	Standard
>	Sc	45		ug/L			787622	871508	7	Standard
	Cr	52	0.256	ug/L	0.025	9	20663	30183	5	Standard
	Cr	53	0.212	ug/L	0.010	4	443	1201	8	Standard
	Fe	54	102.216	ug/L	0.985	0	87170	381969	7	Standard
	Fe	57	242.655	ug/L	2.375	0	19734	297937	6	Standard
	Mn	55	7.836	ug/L	0.098	1	543	347007	6	Standard
>	Ge	72		ug/L			47594	43125	1	KED
	Cu	63	3.338	ug/L	0.082	2	50	14533	1	KED
	Cu	65	3.378	ug/L	0.171	5	27	7558	3	KED
	Zn	66	2.391	ug/L	0.088	3	27	1409	1	KED
	Zn	67	3.327	ug/L	0.096	2	7	333	4	KED
	As	75	0.703	ug/L	0.038	5	4	220	3	KED
	Y	89		ug/L			383646	356561	7	Standard
	Kr	83		ug/L			57	47	18	Standard
>	In-1	115		ug/L			11160	10577	1	KED
	Cd	111	0.006	ug/L	0.004	73	5	6	20	KED
	Cd	114	0.016	ug/L	0.010	65	4	17	49	KED
>	In	115		ug/L			610701	522614	7	Standard
	Ag	107	0.003	ug/L	0.001	33	85	130	7	Standard
>	Tb	159		ug/L			1474680	1365296	7	Standard
	Pb	208	0.144	ug/L	0.001	0	274	12284	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0584-07
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 01:35:31
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			41950	77013	0	Standard
⌈>	**Sc**	**45**		ug/L			787622	883799	3	Standard
|	**Cr**	**52**	**0.182**	ug/L	0.021	11	20663	28482	1	Standard
|	**Cr**	**53**	**2.294**	ug/L	0.066	2	443	8302	3	Standard
|	**Fe**	**54**	**11.328**	ug/L	1.145	10	87170	129842	0	Standard
|	**Fe**	**57**	**127.682**	ug/L	5.805	4	19734	169468	3	Standard
⌊	**Mn**	**55**	**4.099**	ug/L	0.066	1	543	184361	2	Standard
⌈>	**Ge**	**72**		ug/L			47594	40413	0	KED
|	**Cu**	**63**	**1.078**	ug/L	0.013	1	50	4429	0	KED
|	**Cu**	**65**	**1.096**	ug/L	0.043	3	27	2315	3	KED
|	**Zn**	**66**	**17.321**	ug/L	0.354	2	27	9427	1	KED
|	**Zn**	**67**	**17.623**	ug/L	0.736	4	7	1626	3	KED
⌊	**As**	**75**	**1.313**	ug/L	0.071	5	4	383	4	KED
	Y	**89**		ug/L			383646	369296	1	Standard
	Kr	**83**		ug/L			57	46	15	Standard
⌈>	**In-1**	**115**		ug/L			11160	9676	2	KED
|	**Cd**	**111**	**0.195**	ug/L	0.022	11	5	63	12	KED
⌊	**Cd**	**114**	**0.193**	ug/L	0.027	14	4	152	12	KED
⌈>	**In**	**115**		ug/L			610701	516301	0	Standard
⌊	**Ag**	**107**	**0.005**	ug/L	0.000	10	85	153	6	Standard
⌈>	**Tb**	**159**		ug/L			1474680	1388715	1	Standard
⌊	**Pb**	**208**	**2.023**	ug/L	0.027	1	274	171754	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0584-09
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 01:40:27
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			41950	74204	1	Standard
⌈>	**Sc**	**45**		ug/L			787622	892148	1	Standard
|	**Cr**	**52**	**1.813**	ug/L	0.022	1	20663	76750	2	Standard
|	**Cr**	**53**	**6.479**	ug/L	0.052	0	443	22760	2	Standard
|	**Fe**	**54**	**5.476**	ug/L	1.013	18	87170	114382	2	Standard
|	**Fe**	**57**	**76.145**	ug/L	0.340	0	19734	111092	2	Standard
⌊	**Mn**	**55**	**0.278**	ug/L	0.001	0	543	13207	1	Standard
⌈>	**Ge**	**72**		ug/L			47594	42184	0	KED
|	**Cu**	**63**	**0.746**	ug/L	0.003	0	50	3211	0	KED
|	**Cu**	**65**	**0.721**	ug/L	0.020	2	27	1598	2	KED
|	**Zn**	**66**	**1.852**	ug/L	0.054	2	27	1073	2	KED
|	**Zn**	**67**	**3.027**	ug/L	0.228	7	7	297	7	KED
⌊	**As**	**75**	**0.574**	ug/L	0.016	2	4	177	2	KED
	Y	**89**		ug/L			383646	373335	2	Standard
	Kr	**83**		ug/L			57	60	16	Standard
⌈>	**In-1**	**115**		ug/L			11160	9761	1	KED
|	**Cd**	**111**	**0.087**	ug/L	0.015	17	5	31	14	KED
⌊	**Cd**	**114**	**0.097**	ug/L	0.018	18	4	79	16	KED
⌈>	**In**	**115**		ug/L			610701	556489	1	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.002	177	85	95	32	Standard
⌈>	**Tb**	**159**		ug/L			1474680	1418293	2	Standard
⌊	**Pb**	**208**	**0.029**	ug/L	0.001	5	274	2771	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0584-11
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 01:46:24
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			41950	76276	4	Standard
⌈>	**Sc**	**45**		ug/L			787622	817098	3	Standard
|	**Cr**	**52**	**0.739**	ug/L	0.029	3	20663	41330	1	Standard
|	**Cr**	**53**	**10.095**	ug/L	0.148	1	443	32226	4	Standard
|	**Fe**	**54**	**27.581**	ug/L	1.061	3	87170	162636	2	Standard
|	**Fe**	**57**	**188.996**	ug/L	2.464	1	19734	222173	3	Standard
⌊	**Mn**	**55**	**4.025**	ug/L	0.088	2	543	167359	2	Standard
⌈>	**Ge**	**72**		ug/L			47594	38303	0	KED
|	**Cu**	**63**	**1.411**	ug/L	0.020	1	50	5481	1	KED
|	**Cu**	**65**	**1.432**	ug/L	0.006	0	27	2859	0	KED
|	**Zn**	**66**	**4.415**	ug/L	0.161	3	27	2294	3	KED
|	**Zn**	**67**	**6.132**	ug/L	0.291	4	7	540	4	KED
⌊	**As**	**75**	**0.570**	ug/L	0.045	7	4	159	7	KED
	Y	**89**		ug/L			383646	357121	2	Standard
	Kr	**83**		ug/L			57	81	19	Standard
⌈>	**In-1**	**115**		ug/L			11160	8842	0	KED
|	**Cd**	**111**	**0.582**	ug/L	0.012	2	5	163	1	KED
⌊	**Cd**	**114**	**0.590**	ug/L	0.060	10	4	421	9	KED
⌈>	**In**	**115**		ug/L			610701	501669	3	Standard
⌊	**Ag**	**107**	**0.008**	ug/L	0.000	5	85	208	1	Standard
⌈>	**Tb**	**159**		ug/L			1474680	1362725	1	Standard
⌊	**Pb**	**208**	**0.127**	ug/L	0.002	1	274	10785	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0215-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, May 02, 2023 01:54:20
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			41950	69650	1	Standard
>	Sc	45		ug/L			787622	798401	1	Standard
	Cr	52	47.181	ug/L	0.707	1	20663	1263769	2	Standard
	Cr	53	51.923	ug/L	0.475	0	443	160083	2	Standard
	Fe	54	102.008	ug/L	2.502	2	87170	349410	1	Standard
	Fe	57	100.888	ug/L	2.658	2	19734	125204	2	Standard
	Mn	55	2.652	ug/L	0.021	0	543	107986	0	Standard
>	Ge	72		ug/L			47594	44501	1	KED
	Cu	63	11.194	ug/L	0.225	2	50	50187	0	KED
	Cu	65	11.087	ug/L	0.170	1	27	25556	0	KED
	Zn	66	32.850	ug/L	0.762	2	27	19663	0	KED
	Zn	67	30.046	ug/L	1.930	6	7	3046	5	KED
	As	75	0.122	ug/L	0.011	8	4	42	7	KED
	Y	89		ug/L			383646	383844	2	Standard
	Kr	83		ug/L			57	52	4	Standard
>	In-1	115		ug/L			11160	10176	0	KED
	Cd	111	0.780	ug/L	0.058	7	5	250	7	KED
	Cd	114	0.823	ug/L	0.030	3	4	674	3	KED
>	In	115		ug/L			610701	587968	2	Standard
	Ag	107	0.020	ug/L	0.002	8	85	467	8	Standard
>	Tb	159		ug/L			1474680	1498174	0	Standard
	Pb	208	0.254	ug/L	0.006	2	274	23513	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0248-01
Sample Dil Factor: 100
Comments:
Sample Date/Time: Tuesday, May 02, 2023 01:58:53
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			41950	57966	0	Standard
⌈>	**Sc**	**45**		ug/L			787622	753873	1	Standard
|	**Cr**	**52**	**0.008**	ug/L	0.014	161	20663	19988	2	Standard
|	**Cr**	**53**	**0.325**	ug/L	0.015	4	443	1368	2	Standard
|	**Fe**	**54**	**2.494**	ug/L	0.141	5	87170	89463	1	Standard
|	**Fe**	**57**	**16.116**	ug/L	0.806	5	19734	34754	2	Standard
⌊	**Mn**	**55**	**6.403**	ug/L	0.100	1	543	245429	1	Standard
⌈>	**Ge**	**72**		ug/L			47594	44815	1	KED
|	**Cu**	**63**	**0.016**	ug/L	0.002	15	50	120	10	KED
|	**Cu**	**65**	**0.014**	ug/L	0.006	42	27	57	22	KED
|	**Zn**	**66**	**0.246**	ug/L	0.022	8	27	173	7	KED
|	**Zn**	**67**	**0.254**	ug/L	0.013	5	7	33	3	KED
⌊	**As**	**75**	**46.209**	ug/L	0.827	1	4	14832	0	KED
	Y	**89**		ug/L			383646	381204	1	Standard
	Kr	**83**		ug/L			57	45	38	Standard
⌈>	**In-1**	**115**		ug/L			11160	10076	1	KED
|	**Cd**	**111**	**-0.003**	ug/L	0.005	156	5	3	43	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.006	294	4	5	91	KED
⌈>	**In**	**115**		ug/L			610701	605536	1	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.000	35	85	59	14	Standard
⌈>	**Tb**	**159**		ug/L			1474680	1475725	1	Standard
⌊	**Pb**	**208**	**-0.000**	ug/L	0.000	15	274	236	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLB
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 02:03:26
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			41950	47601	1	Standard
⌈>	**Sc**	**45**		ug/L			787622	706417	7	Standard
|	**Cr**	**52**	**0.021**	ug/L	0.058	274	20663	18961	0	Standard
|	**Cr**	**53**	**0.148**	ug/L	0.033	22	443	796	3	Standard
|	**Fe**	**54**	**1.555**	ug/L	4.318	277	87170	81241	4	Standard
|	**Fe**	**57**	**3.233**	ug/L	1.897	58	19734	20599	1	Standard
⌊	**Mn**	**55**	**0.016**	ug/L	0.003	21	543	1041	6	Standard
⌈>	**Ge**	**72**		ug/L			47594	43929	0	KED
|	**Cu**	**63**	**0.028**	ug/L	0.002	8	50	170	5	KED
|	**Cu**	**65**	**0.017**	ug/L	0.007	43	27	62	26	KED
|	**Zn**	**66**	**0.264**	ug/L	0.028	10	27	180	10	KED
|	**Zn**	**67**	**0.266**	ug/L	0.048	18	7	33	14	KED
⌊	**As**	**75**	**0.003**	ug/L	0.006	250	4	4	43	KED
	Y	**89**		ug/L			383646	356884	6	Standard
	Kr	**83**		ug/L			57	46	18	Standard
⌈>	**In-1**	**115**		ug/L			11160	9925	2	KED
|	**Cd**	**111**	**-0.004**	ug/L	0.008	173	5	3	68	KED
⌊	**Cd**	**114**	**-0.000**	ug/L	0.002	717	4	3	52	KED
⌈>	**In**	**115**		ug/L			610701	569837	3	Standard
⌊	**Ag**	**107**	**-0.002**	ug/L	0.001	45	85	47	34	Standard
⌈>	**Tb**	**159**		ug/L			1474680	1366995	8	Standard
⌊	**Pb**	**208**	**0.008**	ug/L	0.000	1	274	919	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVC
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 02:07:59
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			41950	43981	1	Standard
⌈>	**Sc**	**45**		ug/L			787622	754130	2	Standard
|	**Cr**	**52**	**46.959**	ug/L	1.238	2	20663	1187741	1	Standard
|	**Cr**	**53**	**46.982**	ug/L	0.326	0	443	136844	1	Standard
|	**Fe**	**54**	**4997.460**	ug/L	13.985	0	87170	12164600	1	Standard
|	**Fe**	**57**	**4973.962**	ug/L	113.126	2	19734	4918042	2	Standard
⌊	**Mn**	**55**	**48.421**	ug/L	0.655	1	543	1852952	0	Standard
⌈>	**Ge**	**72**		ug/L			47594	44533	1	KED
|	**Cu**	**63**	**52.184**	ug/L	0.641	1	50	234018	2	KED
|	**Cu**	**65**	**51.053**	ug/L	1.060	2	27	117661	0	KED
|	**Zn**	**66**	**51.764**	ug/L	1.366	2	27	30991	1	KED
|	**Zn**	**67**	**49.859**	ug/L	2.628	5	7	5054	3	KED
⌊	**As**	**75**	**49.712**	ug/L	0.857	1	4	15856	0	KED
	Y	**89**		ug/L			383646	387349	2	Standard
	Kr	**83**		ug/L			57	54	8	Standard
⌈>	**In-1**	**115**		ug/L			11160	10156	1	KED
|	**Cd**	**111**	**51.943**	ug/L	0.865	1	5	16349	0	KED
⌊	**Cd**	**114**	**51.574**	ug/L	0.676	1	4	41945	0	KED
⌈>	**In**	**115**		ug/L			610701	607340	0	Standard
⌊	**Ag**	**107**	**50.527**	ug/L	1.090	2	85	1006876	2	Standard
⌈>	**Tb**	**159**		ug/L			1474680	1487228	1	Standard
⌊	**Pb**	**208**	**54.526**	ug/L	0.335	0	274	4951062	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBC
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 02:15:16
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			41950	41729	0	Standard
>	**Sc**	**45**		ug/L			787622	751761	1	Standard
	Cr	**52**	**-0.055**	ug/L	0.021	37	20663	18351	2	Standard
	Cr	**53**	**0.018**	ug/L	0.009	52	443	474	5	Standard
	Fe	**54**	**-1.009**	ug/L	0.605	60	87170	80757	0	Standard
	Fe	**57**	**-1.542**	ug/L	0.605	39	19734	17316	2	Standard
	Mn	**55**	**-0.001**	ug/L	0.001	90	543	483	5	Standard
>	**Ge**	**72**		ug/L			47594	45384	0	KED
	Cu	**63**	**0.002**	ug/L	0.002	76	50	57	13	KED
	Cu	**65**	**-0.002**	ug/L	0.001	61	27	21	13	KED
	Zn	**66**	**0.004**	ug/L	0.017	418	27	28	37	KED
	Zn	**67**	**-0.009**	ug/L	0.047	533	7	6	75	KED
	As	**75**	**0.001**	ug/L	0.005	845	4	4	40	KED
	Y	**89**		ug/L			383646	383272	1	Standard
	Kr	**83**		ug/L			57	40	20	Standard
>	**In-1**	**115**		ug/L			11160	10772	1	KED
	Cd	**111**	**-0.006**	ug/L	0.008	132	5	3	86	KED
	Cd	**114**	**-0.002**	ug/L	0.002	125	4	2	88	KED
>	**In**	**115**		ug/L			610701	606261	2	Standard
	Ag	**107**	**0.001**	ug/L	0.000	39	85	104	5	Standard
>	**Tb**	**159**		ug/L			1474680	1465539	2	Standard
	Pb	**208**	**0.000**	ug/L	0.000	40	274	306	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0584-14
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 02:19:49
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			41950	82555	1	Standard
>	Sc	45		ug/L			787622	884849	1	Standard
	Cr	52	0.288	ug/L	0.023	7	20663	31617	2	Standard
	Cr	53	0.457	ug/L	0.023	5	443	2054	3	Standard
	Fe	54	3.669	ug/L	0.432	11	87170	108351	2	Standard
	Fe	57	79.125	ug/L	1.311	1	19734	113624	2	Standard
	Mn	55	514.471	ug/L	2.782	0	543	23097035	1	Standard
>	Ge	72		ug/L			47594	42528	1	KED
	Cu	63	2.145	ug/L	0.041	1	50	9227	0	KED
	Cu	65	2.099	ug/L	0.002	0	27	4644	1	KED
	Zn	66	1.150	ug/L	0.038	3	27	681	3	KED
	Zn	67	2.263	ug/L	0.323	14	7	225	12	KED
	As	75	0.359	ug/L	0.026	7	4	112	5	KED
	Y	89		ug/L			383646	382315	0	Standard
	Kr	83		ug/L			57	70	8	Standard
>	In-1	115		ug/L			11160	9909	3	KED
	Cd	111	0.082	ug/L	0.014	16	5	29	11	KED
	Cd	114	0.088	ug/L	0.018	20	4	73	15	KED
>	In	115		ug/L			610701	595441	0	Standard
	Ag	107	-0.000	ug/L	0.000	71	85	80	2	Standard
>	Tb	159		ug/L			1474680	1453852	0	Standard
	Pb	208	0.014	ug/L	0.000	0	274	1493	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0584-15
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 02:24:16
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			41950	84763	0	Standard
⌈>	**Sc**	**45**		ug/L			787622	863966	5	Standard
|	**Cr**	**52**	**0.107**	ug/L	0.047	43	20663	25666	3	Standard
|	**Cr**	**53**	**0.235**	ug/L	0.021	8	443	1267	1	Standard
|	**Fe**	**54**	**223.362**	ug/L	15.830	7	87170	712859	2	Standard
|	**Fe**	**57**	**450.154**	ug/L	23.694	5	19734	528907	3	Standard
⌊	**Mn**	**55**	**190.059**	ug/L	9.740	5	543	8318768	2	Standard
⌈>	**Ge**	**72**		ug/L			47594	38871	0	KED
|	**Cu**	**63**	**0.580**	ug/L	0.028	4	50	2311	4	KED
|	**Cu**	**65**	**0.577**	ug/L	0.037	6	27	1184	6	KED
|	**Zn**	**66**	**5.800**	ug/L	0.193	3	27	3051	3	KED
|	**Zn**	**67**	**7.707**	ug/L	0.557	7	7	687	7	KED
⌊	**As**	**75**	**0.673**	ug/L	0.011	1	4	190	1	KED
	Y	**89**		ug/L			383646	370116	6	Standard
	Kr	**83**		ug/L			57	83	17	Standard
⌈>	**In-1**	**115**		ug/L			11160	9289	1	KED
|	**Cd**	**111**	**0.385**	ug/L	0.034	8	5	115	7	KED
⌊	**Cd**	**114**	**0.377**	ug/L	0.053	14	4	283	13	KED
⌈>	**In**	**115**		ug/L			610701	500106	5	Standard
⌊	**Ag**	**107**	**0.004**	ug/L	0.001	36	85	128	11	Standard
⌈>	**Tb**	**159**		ug/L			1474680	1324882	5	Standard
⌊	**Pb**	**208**	**0.522**	ug/L	0.023	4	274	42410	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0584-16
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 02:28:42
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			41950	82587	1	Standard
⌈>	**Sc**	**45**		ug/L			787622	902789	1	Standard
|	**Cr**	**52**	**0.011**	ug/L	0.017	149	20663	24017	1	Standard
|	**Cr**	**53**	**0.190**	ug/L	0.005	2	443	1167	1	Standard
|	**Fe**	**54**	**17.965**	ug/L	0.529	2	87170	151918	2	Standard
|	**Fe**	**57**	**247.450**	ug/L	3.210	1	19734	314442	2	Standard
⌊	**Mn**	**55**	**178.870**	ug/L	3.928	2	543	8192445	0	Standard
⌈>	**Ge**	**72**		ug/L			47594	39215	0	KED
|	**Cu**	**63**	**0.219**	ug/L	0.006	2	50	906	2	KED
|	**Cu**	**65**	**0.207**	ug/L	0.016	7	27	443	7	KED
|	**Zn**	**66**	**1.333**	ug/L	0.075	5	27	725	5	KED
|	**Zn**	**67**	**3.156**	ug/L	0.355	11	7	287	10	KED
⌊	**As**	**75**	**0.460**	ug/L	0.032	7	4	132	6	KED
	Y	**89**		ug/L			383646	379024	0	Standard
	Kr	**83**		ug/L			57	78	19	Standard
⌈>	**In-1**	**115**		ug/L			11160	9488	0	KED
|	**Cd**	**111**	**0.154**	ug/L	0.044	28	5	49	25	KED
⌊	**Cd**	**114**	**0.164**	ug/L	0.007	4	4	128	4	KED
⌈>	**In**	**115**		ug/L			610701	535637	2	Standard
⌊	**Ag**	**107**	**-0.000**	ug/L	0.000	101	85	68	9	Standard
⌈>	**Tb**	**159**		ug/L			1474680	1386285	1	Standard
⌊	**Pb**	**208**	**0.035**	ug/L	0.001	1	274	3254	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0584-17
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 02:33:09
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			41950	83719	2	Standard
⌈>	**Sc**	**45**		ug/L			787622	931521	3	Standard
|	**Cr**	**52**	**0.135**	ug/L	0.021	15	20663	28568	1	Standard
|	**Cr**	**53**	**1.590**	ug/L	0.022	1	443	6228	2	Standard
|	**Fe**	**54**	**99.054**	ug/L	1.747	1	87170	398795	2	Standard
|	**Fe**	**57**	**185.883**	ug/L	2.760	1	19734	249439	2	Standard
⌊	**Mn**	**55**	**245.733**	ug/L	7.412	3	543	11607146	0	Standard
⌈>	**Ge**	**72**		ug/L			47594	41142	2	KED
|	**Cu**	**63**	**0.862**	ug/L	0.016	1	50	3615	2	KED
|	**Cu**	**65**	**0.873**	ug/L	0.022	2	27	1882	1	KED
|	**Zn**	**66**	**1.142**	ug/L	0.029	2	27	654	1	KED
|	**Zn**	**67**	**3.172**	ug/L	0.192	6	7	303	6	KED
⌊	**As**	**75**	**3.991**	ug/L	0.127	3	4	1179	4	KED
	Y	**89**		ug/L			383646	376237	2	Standard
	Kr	**83**		ug/L			57	69	27	Standard
⌈>	**In-1**	**115**		ug/L			11160	9678	2	KED
|	**Cd**	**111**	**0.011**	ug/L	0.011	99	5	7	38	KED
⌊	**Cd**	**114**	**0.016**	ug/L	0.003	20	4	16	13	KED
⌈>	**In**	**115**		ug/L			610701	564278	1	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.001	65	85	102	14	Standard
⌈>	**Tb**	**159**		ug/L			1474680	1441097	1	Standard
⌊	**Pb**	**208**	**0.024**	ug/L	0.001	4	274	2363	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0584-18
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 02:37:35
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			41950	82617	1	Standard
⌈>	**Sc**	**45**		ug/L			787622	944514	1	Standard
|	**Cr**	**52**	**0.078**	ug/L	0.022	28	20663	27216	3	Standard
|	**Cr**	**53**	**1.589**	ug/L	0.019	1	443	6312	1	Standard
|	**Fe**	**54**	**56.444**	ug/L	0.900	1	87170	275455	1	Standard
|	**Fe**	**57**	**147.228**	ug/L	0.664	0	19734	205300	0	Standard
⌊	**Mn**	**55**	**241.000**	ug/L	1.598	0	543	11550462	1	Standard
⌈>	**Ge**	**72**		ug/L			47594	40978	0	KED
|	**Cu**	**63**	**0.877**	ug/L	0.007	0	50	3660	1	KED
|	**Cu**	**65**	**0.881**	ug/L	0.009	0	27	1892	1	KED
|	**Zn**	**66**	**0.600**	ug/L	0.047	7	27	353	7	KED
|	**Zn**	**67**	**2.553**	ug/L	0.241	9	7	244	8	KED
⌊	**As**	**75**	**3.641**	ug/L	0.105	2	4	1072	2	KED
	Y	**89**		ug/L			383646	375192	2	Standard
	Kr	**83**		ug/L			57	78	8	Standard
⌈>	**In-1**	**115**		ug/L			11160	9566	2	KED
|	**Cd**	**111**	**0.007**	ug/L	0.009	127	5	6	37	KED
⌊	**Cd**	**114**	**0.004**	ug/L	0.004	89	4	6	42	KED
⌈>	**In**	**115**		ug/L			610701	576488	1	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.000	61	85	93	9	Standard
⌈>	**Tb**	**159**		ug/L			1474680	1431514	0	Standard
⌊	**Pb**	**208**	**0.014**	ug/L	0.001	4	274	1515	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0584-19
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 02:42:32
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			41950	82189	3	Standard
>	**Sc**	**45**		ug/L			787622	946641	2	Standard
	Cr	**52**	**0.109**	ug/L	0.023	21	20663	28238	3	Standard
	Cr	**53**	**1.604**	ug/L	0.015	0	443	6381	3	Standard
	Fe	**54**	**78.436**	ug/L	0.886	1	87170	342822	3	Standard
	Fe	**57**	**167.239**	ug/L	3.058	1	19734	230509	2	Standard
	Mn	**55**	**241.578**	ug/L	1.986	0	543	11603028	2	Standard
>	**Ge**	**72**		ug/L			47594	40859	0	KED
	Cu	**63**	**0.881**	ug/L	0.003	0	50	3665	0	KED
	Cu	**65**	**0.875**	ug/L	0.043	4	27	1872	3	KED
	Zn	**66**	**1.492**	ug/L	0.061	4	27	842	4	KED
	Zn	**67**	**3.141**	ug/L	0.148	4	7	298	4	KED
	As	**75**	**3.912**	ug/L	0.018	0	4	1148	1	KED
	Y	**89**		ug/L			383646	382460	2	Standard
	Kr	**83**		ug/L			57	75	23	Standard
>	**In-1**	**115**		ug/L			11160	9477	0	KED
	Cd	**111**	**0.002**	ug/L	0.010	596	5	5	57	KED
	Cd	**114**	**0.011**	ug/L	0.006	50	4	12	35	KED
>	**In**	**115**		ug/L			610701	581480	2	Standard
	Ag	**107**	**0.001**	ug/L	0.001	50	85	101	8	Standard
>	**Tb**	**159**		ug/L			1474680	1474870	0	Standard
	Pb	**208**	**0.027**	ug/L	0.002	8	274	2711	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0584-20
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 02:48:28
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			41950	82700	1	Standard
⌈>	**Sc**	**45**		ug/L			787622	927597	1	Standard
|	**Cr**	**52**	**0.074**	ug/L	0.012	15	20663	26608	1	Standard
|	**Cr**	**53**	**1.563**	ug/L	0.016	0	443	6106	2	Standard
|	**Fe**	**54**	**51.053**	ug/L	0.559	1	87170	254476	1	Standard
|	**Fe**	**57**	**140.572**	ug/L	1.821	1	19734	193547	1	Standard
⌊	**Mn**	**55**	**238.171**	ug/L	4.714	1	543	11208033	0	Standard
⌈>	**Ge**	**72**		ug/L			47594	41684	0	KED
|	**Cu**	**63**	**0.821**	ug/L	0.002	0	50	3488	0	KED
|	**Cu**	**65**	**0.818**	ug/L	0.036	4	27	1789	4	KED
|	**Zn**	**66**	**0.449**	ug/L	0.024	5	27	275	5	KED
|	**Zn**	**67**	**2.468**	ug/L	0.251	10	7	240	9	KED
⌊	**As**	**75**	**3.638**	ug/L	0.070	1	4	1089	2	KED
	Y	**89**		ug/L			383646	383764	1	Standard
	Kr	**83**		ug/L			57	80	20	Standard
⌈>	**In-1**	**115**		ug/L			11160	9708	1	KED
|	**Cd**	**111**	**-0.008**	ug/L	0.002	22	5	2	24	KED
⌊	**Cd**	**114**	**0.007**	ug/L	0.006	90	4	9	55	KED
⌈>	**In**	**115**		ug/L			610701	569725	1	Standard
⌊	**Ag**	**107**	**0.000**	ug/L	0.001	234	85	86	16	Standard
⌈>	**Tb**	**159**		ug/L			1474680	1433105	0	Standard
⌊	**Pb**	**208**	**0.005**	ug/L	0.000	6	274	709	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0211-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 02:56:25
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			41950	83786	0	Standard
>	Sc	45		ug/L			787622	778933	1	Standard
	Cr	52	0.487	ug/L	0.019	3	20663	32942	2	Standard
	Cr	53	0.685	ug/L	0.015	2	443	2492	0	Standard
	Fe	54	207.189	ug/L	3.006	1	87170	603590	2	Standard
	Fe	57	195.612	ug/L	2.431	1	19734	218513	0	Standard
	Mn	55	7.053	ug/L	0.067	0	543	279286	2	Standard
>	Ge	72		ug/L			47594	45482	0	KED
	Cu	63	2.454	ug/L	0.006	0	50	11282	0	KED
	Cu	65	2.392	ug/L	0.048	1	27	5656	2	KED
	Zn	66	76.816	ug/L	1.389	1	27	46967	1	KED
	Zn	67	70.301	ug/L	0.133	0	7	7279	0	KED
	As	75	0.135	ug/L	0.027	19	4	47	18	KED
	Y	89		ug/L			383646	389222	3	Standard
	Kr	83		ug/L			57	45	12	Standard
>	In-1	115		ug/L			11160	10616	0	KED
	Cd	111	0.024	ug/L	0.010	42	5	13	25	KED
	Cd	114	0.019	ug/L	0.008	40	4	20	32	KED
>	In	115		ug/L			610701	616981	1	Standard
	Ag	107	0.004	ug/L	0.000	12	85	160	6	Standard
>	Tb	159		ug/L			1474680	1490655	1	Standard
	Pb	208	1.101	ug/L	0.016	1	274	100455	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0211-02
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 03:00:58
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			41950	82981	1	Standard
⌈>	**Sc**	**45**		ug/L			787622	777931	1	Standard
|	**Cr**	**52**	**0.277**	ug/L	0.018	6	20663	27509	3	Standard
|	**Cr**	**53**	**0.378**	ug/L	0.012	3	443	1571	1	Standard
|	**Fe**	**54**	**107.420**	ug/L	0.658	0	87170	353994	2	Standard
|	**Fe**	**57**	**102.121**	ug/L	2.340	2	19734	123272	3	Standard
⌊	**Mn**	**55**	**3.332**	ug/L	0.029	0	543	132041	2	Standard
⌈>	**Ge**	**72**		ug/L			47594	45249	0	KED
|	**Cu**	**63**	**2.159**	ug/L	0.016	0	50	9883	0	KED
|	**Cu**	**65**	**2.210**	ug/L	0.055	2	27	5202	2	KED
|	**Zn**	**66**	**51.487**	ug/L	0.649	1	27	31328	1	KED
|	**Zn**	**67**	**45.203**	ug/L	0.811	1	7	4659	1	KED
⌊	**As**	**75**	**0.164**	ug/L	0.019	11	4	56	10	KED
	Y	**89**		ug/L			383646	385350	2	Standard
	Kr	**83**		ug/L			57	49	15	Standard
⌈>	**In-1**	**115**		ug/L			11160	10372	0	KED
|	**Cd**	**111**	**0.010**	ug/L	0.011	113	5	8	43	KED
⌊	**Cd**	**114**	**0.016**	ug/L	0.019	113	4	17	88	KED
⌈>	**In**	**115**		ug/L			610701	628530	3	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.000	13	85	124	7	Standard
⌈>	**Tb**	**159**		ug/L			1474680	1474197	2	Standard
⌊	**Pb**	**208**	**0.248**	ug/L	0.008	3	274	22573	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLC
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 03:05:31
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			41950	46797	0	Standard
⌈>	**Sc**	**45**		ug/L			787622	749874	2	Standard
|	**Cr**	**52**	**-0.042**	ug/L	0.014	33	20663	18629	1	Standard
|	**Cr**	**53**	**0.014**	ug/L	0.006	44	443	463	6	Standard
|	**Fe**	**54**	**-0.055**	ug/L	0.300	549	87170	82855	2	Standard
|	**Fe**	**57**	**-2.246**	ug/L	0.222	9	19734	16593	4	Standard
⌊	**Mn**	**55**	**0.018**	ug/L	0.000	2	543	1218	3	Standard
⌈>	**Ge**	**72**		ug/L			47594	43615	0	KED
|	**Cu**	**63**	**0.028**	ug/L	0.003	10	50	168	7	KED
|	**Cu**	**65**	**0.021**	ug/L	0.008	38	27	71	25	KED
|	**Zn**	**66**	**0.293**	ug/L	0.033	11	27	196	9	KED
|	**Zn**	**67**	**0.249**	ug/L	0.149	59	7	31	46	KED
⌊	**As**	**75**	**-0.004**	ug/L	0.002	34	4	2	20	KED
	Y	**89**		ug/L			383646	376714	3	Standard
	Kr	**83**		ug/L			57	39	23	Standard
⌈>	**In-1**	**115**		ug/L			11160	10247	1	KED
|	**Cd**	**111**	**-0.010**	ug/L	0.000	0	5	1		KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.001	127	4	2	41	KED
⌈>	**In**	**115**		ug/L			610701	593683	2	Standard
⌊	**Ag**	**107**	**-0.002**	ug/L	0.000	25	85	52	12	Standard
⌈>	**Tb**	**159**		ug/L			1474680	1454069	1	Standard
⌊	**Pb**	**208**	**0.008**	ug/L	0.001	7	274	982	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVD
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 03:10:05
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			41950	44593	0	Standard
⌈>	**Sc**	**45**		ug/L			787622	764845	1	Standard
|	**Cr**	**52**	**46.776**	ug/L	0.683	1	20663	1200225	1	Standard
|	**Cr**	**53**	**47.362**	ug/L	0.878	1	443	139908	2	Standard
|	**Fe**	**54**	**4970.904**	ug/L	26.299	0	87170	12273336	2	Standard
|	**Fe**	**57**	**4877.807**	ug/L	34.447	0	19734	4892664	2	Standard
⌊	**Mn**	**55**	**48.149**	ug/L	0.578	1	543	1868984	1	Standard
⌈>	**Ge**	**72**		ug/L			47594	44420	1	KED
|	**Cu**	**63**	**52.822**	ug/L	1.017	1	50	236230	1	KED
|	**Cu**	**65**	**51.990**	ug/L	1.108	2	27	119533	2	KED
|	**Zn**	**66**	**52.593**	ug/L	0.472	0	27	31412	1	KED
|	**Zn**	**67**	**51.696**	ug/L	0.582	1	7	5230	2	KED
⌊	**As**	**75**	**50.098**	ug/L	0.781	1	4	15939	1	KED
	Y	**89**		ug/L			383646	378207	1	Standard
	Kr	**83**		ug/L			57	51	18	Standard
⌈>	**In-1**	**115**		ug/L			11160	10315	1	KED
|	**Cd**	**111**	**50.547**	ug/L	0.191	0	5	16161	1	KED
⌊	**Cd**	**114**	**50.962**	ug/L	0.760	1	4	42096	0	KED
⌈>	**In**	**115**		ug/L			610701	590785	2	Standard
⌊	**Ag**	**107**	**50.049**	ug/L	0.796	1	85	969880	1	Standard
⌈>	**Tb**	**159**		ug/L			1474680	1477490	1	Standard
⌊	**Pb**	**208**	**54.781**	ug/L	1.068	1	274	4941230	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBD
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 03:17:22
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			41950	43797	1	Standard
⌈>	**Sc**	**45**		ug/L			787622	770461	1	Standard
|	**Cr**	**52**	**-0.052**	ug/L	0.020	37	20663	18876	0	Standard
|	**Cr**	**53**	**-0.043**	ug/L	0.011	26	443	307	10	Standard
|	**Fe**	**54**	**-0.728**	ug/L	0.603	82	87170	83473	2	Standard
|	**Fe**	**57**	**-2.026**	ug/L	0.098	4	19734	17264	1	Standard
⌊	**Mn**	**55**	**0.003**	ug/L	0.001	25	543	660	4	Standard
⌈>	**Ge**	**72**		ug/L			47594	46198	0	KED
|	**Cu**	**63**	**0.000**	ug/L	0.000	118	50	50	4	KED
|	**Cu**	**65**	**0.001**	ug/L	0.004	279	27	29	31	KED
|	**Zn**	**66**	**0.005**	ug/L	0.013	240	27	29	26	KED
|	**Zn**	**67**	**-0.004**	ug/L	0.011	278	7	6	15	KED
⌊	**As**	**75**	**-0.002**	ug/L	0.006	387	4	3	55	KED
	Y	**89**		ug/L			383646	382510	4	Standard
	Kr	**83**		ug/L			57	43	35	Standard
⌈>	**In-1**	**115**		ug/L			11160	11025	1	KED
|	**Cd**	**111**	**-0.005**	ug/L	0.004	78	5	3	41	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.007	281	4	6	94	KED
⌈>	**In**	**115**		ug/L			610701	607383	1	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.000	16	85	121	6	Standard
⌈>	**Tb**	**159**		ug/L			1474680	1462819	0	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	41	274	325	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0396-BLK1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 03:21:56
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			41950	84963	1	Standard
> Sc	45		ug/L			787622	787023	1	Standard
Cr	52	0.009	ug/L	0.007	83	20663	20874	1	Standard
Cr	53	-0.040	ug/L	0.009	21	443	321	8	Standard
Fe	54	6.257	ug/L	1.504	24	87170	102902	4	Standard
Fe	57	-1.555	ug/L	0.141	9	19734	18122	1	Standard
Mn	55	0.016	ug/L	0.003	19	543	1170	11	Standard
> Ge	72		ug/L			47594	46869	3	KED
Cu	63	0.291	ug/L	0.026	8	50	1419	6	KED
Cu	65	0.279	ug/L	0.012	4	27	702	3	KED
Zn	66	0.086	ug/L	0.018	21	27	80	11	KED
Zn	67	0.092	ug/L	0.067	72	7	17	38	KED
As	75	-0.005	ug/L	0.003	63	4	2	39	KED
Y	89		ug/L			383646	387123	1	Standard
Kr	83		ug/L			57	53	15	Standard
> In-1	115		ug/L			11160	10730	0	KED
Cd	111	-0.004	ug/L	0.003	68	5	3	25	KED
Cd	114	-0.003	ug/L	0.004	142	4	1	186	KED
> In	115		ug/L			610701	626417	2	Standard
Ag	107	0.018	ug/L	0.004	23	85	460	20	Standard
> Tb	159		ug/L			1474680	1490563	1	Standard
Pb	208	0.004	ug/L	0.004	92	274	640	53	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0396-BS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 03:26:29
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			41950	82298	0	Standard
>	Sc	45		ug/L			787622	786095	2	Standard
	Cr	52	24.141	ug/L	0.388	1	20663	646523	1	Standard
	Cr	53	24.164	ug/L	0.417	1	443	73572	2	Standard
	Fe	54	8.289	ug/L	0.212	2	87170	107899	3	Standard
	Fe	57	-1.982	ug/L	0.563	28	19734	17661	4	Standard
	Mn	55	25.007	ug/L	0.488	1	543	997844	2	Standard
>	Ge	72		ug/L			47594	45818	0	KED
	Cu	63	28.281	ug/L	0.411	1	50	130500	1	KED
	Cu	65	28.212	ug/L	0.171	0	27	66920	0	KED
	Zn	66	83.933	ug/L	0.344	0	27	51697	0	KED
	Zn	67	77.284	ug/L	1.402	1	7	8060	1	KED
	As	75	24.816	ug/L	0.191	0	4	8147	0	KED
	Y	89		ug/L			383646	387543	1	Standard
	Kr	83		ug/L			57	52	24	Standard
>	In-1	115		ug/L			11160	10775	1	KED
	Cd	111	25.771	ug/L	0.348	1	5	8609	1	KED
	Cd	114	25.580	ug/L	0.358	1	4	22078	2	KED
>	In	115		ug/L			610701	627921	3	Standard
	Ag	107	26.561	ug/L	0.643	2	85	546886	2	Standard
>	Tb	159		ug/L			1474680	1499920	1	Standard
	Pb	208	28.285	ug/L	0.130	0	274	2590404	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0062-02
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 03:31:02
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			41950	81105	2	Standard
⌈>	**Sc**	**45**		ug/L			787622	885231	2	Standard
|	**Cr**	**52**	**0.020**	ug/L	0.031	155	20663	23787	1	Standard
|	**Cr**	**53**	**0.313**	ug/L	0.010	3	443	1564	3	Standard
|	**Fe**	**54**	**21.839**	ug/L	0.189	0	87170	159949	2	Standard
|	**Fe**	**57**	**39.903**	ug/L	1.707	4	19734	68303	2	Standard
⌊	**Mn**	**55**	**3.739**	ug/L	0.146	3	543	168463	1	Standard
⌈>	**Ge**	**72**		ug/L			47594	45199	0	KED
|	**Cu**	**63**	**0.178**	ug/L	0.009	5	50	859	4	KED
|	**Cu**	**65**	**0.178**	ug/L	0.006	3	27	443	3	KED
|	**Zn**	**66**	**1.611**	ug/L	0.201	12	27	1004	12	KED
|	**Zn**	**67**	**1.455**	ug/L	0.161	11	7	156	10	KED
⌊	**As**	**75**	**0.207**	ug/L	0.026	12	4	70	12	KED
	Y	**89**		ug/L			383646	384340	1	Standard
	Kr	**83**		ug/L			57	45	20	Standard
⌈>	**In-1**	**115**		ug/L			11160	10624	0	KED
|	**Cd**	**111**	**-0.001**	ug/L	0.010	907	5	4	72	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.004	516	4	3	104	KED
⌈>	**In**	**115**		ug/L			610701	621278	1	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.002	82	85	130	27	Standard
⌈>	**Tb**	**159**		ug/L			1474680	1489911	1	Standard
⌊	**Pb**	**208**	**0.022**	ug/L	0.001	6	274	2306	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0062-04
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 03:35:35
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			41950	79295	0	Standard
⌈>	**Sc**	**45**		ug/L			787622	905580	0	Standard
|	**Cr**	**52**	**0.153**	ug/L	0.015	9	20663	28340	2	Standard
|	**Cr**	**53**	**0.424**	ug/L	0.012	2	443	1988	2	Standard
|	**Fe**	**54**	**24.350**	ug/L	0.481	1	87170	170920	1	Standard
|	**Fe**	**57**	**50.789**	ug/L	1.867	3	19734	82778	3	Standard
⌊	**Mn**	**55**	**1.205**	ug/L	0.009	0	543	55989	0	Standard
⌈>	**Ge**	**72**		ug/L			47594	44448	1	KED
|	**Cu**	**63**	**0.346**	ug/L	0.013	3	50	1596	2	KED
|	**Cu**	**65**	**0.346**	ug/L	0.007	2	27	820	0	KED
|	**Zn**	**66**	**2.336**	ug/L	0.225	9	27	1419	7	KED
|	**Zn**	**67**	**2.223**	ug/L	0.101	4	7	231	2	KED
⌊	**As**	**75**	**0.467**	ug/L	0.022	4	4	152	2	KED
	Y	**89**		ug/L			383646	392601	3	Standard
	Kr	**83**		ug/L			57	51	29	Standard
⌈>	**In-1**	**115**		ug/L			11160	10449	1	KED
|	**Cd**	**111**	**0.004**	ug/L	0.007	181	5	6	37	KED
⌊	**Cd**	**114**	**0.007**	ug/L	0.006	89	4	9	55	KED
⌈>	**In**	**115**		ug/L			610701	606347	2	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.000	49	85	101	5	Standard
⌈>	**Tb**	**159**		ug/L			1474680	1481377	1	Standard
⌊	**Pb**	**208**	**0.048**	ug/L	0.001	1	274	4660	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0062-06
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 03:40:07
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			41950	87051	1	Standard
⌈>	**Sc**	**45**		ug/L			787622	903313	2	Standard
|	**Cr**	**52**	**0.251**	ug/L	0.023	9	20663	31161	1	Standard
|	**Cr**	**53**	**0.493**	ug/L	0.028	5	443	2222	2	Standard
|	**Fe**	**54**	**36.239**	ug/L	0.190	0	87170	204913	2	Standard
|	**Fe**	**57**	**59.935**	ug/L	0.623	1	19734	93341	1	Standard
⌊	**Mn**	**55**	**0.887**	ug/L	0.022	2	543	41256	2	Standard
⌈>	**Ge**	**72**		ug/L			47594	44692	1	KED
|	**Cu**	**63**	**0.746**	ug/L	0.019	2	50	3402	3	KED
|	**Cu**	**65**	**0.767**	ug/L	0.004	0	27	1800	1	KED
|	**Zn**	**66**	**1.802**	ug/L	0.049	2	27	1107	3	KED
|	**Zn**	**67**	**1.838**	ug/L	0.453	24	7	193	22	KED
⌊	**As**	**75**	**0.496**	ug/L	0.034	6	4	162	5	KED
	Y	**89**		ug/L			383646	388246	1	Standard
	Kr	**83**		ug/L			57	55	46	Standard
⌈>	**In-1**	**115**		ug/L			11160	10451	0	KED
|	**Cd**	**111**	**-0.006**	ug/L	0.006	104	5	3	62	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.007	276	4	5	94	KED
⌈>	**In**	**115**		ug/L			610701	614669	3	Standard
⌊	**Ag**	**107**	**0.000**	ug/L	0.001	127	85	95	14	Standard
⌈>	**Tb**	**159**		ug/L			1474680	1495891	1	Standard
⌊	**Pb**	**208**	**0.064**	ug/L	0.002	3	274	6118	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0062-08
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 03:44:34
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			41950	70601	1	Standard
⌈>	**Sc**	**45**		ug/L			787622	770380	2	Standard
|	**Cr**	**52**	**0.092**	ug/L	0.023	24	20663	22542	2	Standard
|	**Cr**	**53**	**0.051**	ug/L	0.002	3	443	584	2	Standard
|	**Fe**	**54**	**4.338**	ug/L	0.802	18	87170	95952	1	Standard
|	**Fe**	**57**	**-2.776**	ug/L	0.235	8	19734	16506	1	Standard
⌊	**Mn**	**55**	**0.338**	ug/L	0.008	2	543	13732	0	Standard
⌈>	**Ge**	**72**		ug/L			47594	45609	1	KED
|	**Cu**	**63**	**0.390**	ug/L	0.004	1	50	1840	3	KED
|	**Cu**	**65**	**0.379**	ug/L	0.012	3	27	921	4	KED
|	**Zn**	**66**	**0.827**	ug/L	0.024	2	27	532	2	KED
|	**Zn**	**67**	**0.690**	ug/L	0.139	20	7	78	17	KED
⌊	**As**	**75**	**0.010**	ug/L	0.001	10	4	7	6	KED
	Y	**89**		ug/L			383646	379385	2	Standard
	Kr	**83**		ug/L			57	46	19	Standard
⌈>	**In-1**	**115**		ug/L			11160	10615	1	KED
|	**Cd**	**111**	**-0.007**	ug/L	0.008	114	5	2	88	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.005	622	4	3	114	KED
⌈>	**In**	**115**		ug/L			610701	623513	1	Standard
⌊	**Ag**	**107**	**0.000**	ug/L	0.000	849	85	88	6	Standard
⌈>	**Tb**	**159**		ug/L			1474680	1468397	1	Standard
⌊	**Pb**	**208**	**0.007**	ug/L	0.000	4	274	886	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0439-DUP2
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 03:49:01
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			41950	72094	2	Standard
⌈>	**Sc**	**45**		ug/L			787622	777904	2	Standard
|	**Cr**	**52**	**0.083**	ug/L	0.003	3	20663	22527	2	Standard
|	**Cr**	**53**	**0.045**	ug/L	0.004	9	443	571	4	Standard
|	**Fe**	**54**	**3.674**	ug/L	0.621	16	87170	95244	1	Standard
|	**Fe**	**57**	**-2.476**	ug/L	0.610	24	19734	16973	3	Standard
⌊	**Mn**	**55**	**0.108**	ug/L	0.003	2	543	4815	2	Standard
⌈>	**Ge**	**72**		ug/L			47594	46219	1	KED
|	**Cu**	**63**	**0.372**	ug/L	0.020	5	50	1780	4	KED
|	**Cu**	**65**	**0.357**	ug/L	0.022	6	27	880	5	KED
|	**Zn**	**66**	**0.737**	ug/L	0.027	3	27	483	2	KED
|	**Zn**	**67**	**0.721**	ug/L	0.048	6	7	83	6	KED
⌊	**As**	**75**	**-0.001**	ug/L	0.006	537	4	3	49	KED
	Y	**89**		ug/L			383646	385040	3	Standard
	Kr	**83**		ug/L			57	39	7	Standard
⌈>	**In-1**	**115**		ug/L			11160	10635	1	KED
|	**Cd**	**111**	**-0.004**	ug/L	0.003	66	5	3	25	KED
⌊	**Cd**	**114**	**0.000**	ug/L	0.001	642	4	4	25	KED
⌈>	**In**	**115**		ug/L			610701	614495	2	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.000	22	85	56	14	Standard
⌈>	**Tb**	**159**		ug/L			1474680	1473792	1	Standard
⌊	**Pb**	**208**	**0.009**	ug/L	0.001	5	274	1075	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0439-MS2
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 03:53:58
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			41950	72725	0	Standard
⌈>	**Sc**	**45**		ug/L			787622	799356	2	Standard
|	**Cr**	**52**	**24.564**	ug/L	0.290	1	20663	668654	1	Standard
|	**Cr**	**53**	**24.198**	ug/L	0.643	2	443	74903	0	Standard
|	**Fe**	**54**	**5103.647**	ug/L	68.267	1	87170	13165368	1	Standard
|	**Fe**	**57**	**5062.206**	ug/L	150.776	2	19734	5303398	1	Standard
⌊	**Mn**	**55**	**24.606**	ug/L	0.107	0	543	998602	2	Standard
⌈>	**Ge**	**72**		ug/L			47594	45729	0	KED
|	**Cu**	**63**	**27.557**	ug/L	0.290	1	50	126916	1	KED
|	**Cu**	**65**	**27.342**	ug/L	0.647	2	27	64726	1	KED
|	**Zn**	**66**	**86.547**	ug/L	1.288	1	27	53199	1	KED
|	**Zn**	**67**	**80.141**	ug/L	2.010	2	7	8342	2	KED
⌊	**As**	**75**	**25.496**	ug/L	0.201	0	4	8353	0	KED
	Y	**89**		ug/L			383646	388124	3	Standard
	Kr	**83**		ug/L			57	58	23	Standard
⌈>	**In-1**	**115**		ug/L			11160	10695	0	KED
|	**Cd**	**111**	**26.113**	ug/L	0.057	0	5	8659	0	KED
⌊	**Cd**	**114**	**26.027**	ug/L	0.495	1	4	22296	1	KED
⌈>	**In**	**115**		ug/L			610701	603958	5	Standard
⌊	**Ag**	**107**	**25.722**	ug/L	1.150	4	85	509167	4	Standard
⌈>	**Tb**	**159**		ug/L			1474680	1470595	2	Standard
⌊	**Pb**	**208**	**27.494**	ug/L	0.821	2	274	2468351	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0439-MSD2
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 03:59:55
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			41950	70030	4	Standard
>	**Sc**	**45**		ug/L			787622	750840	6	Standard
	Cr	**52**	**24.410**	ug/L	0.408	1	20663	624603	7	Standard
	Cr	**53**	**24.687**	ug/L	0.706	2	443	71872	8	Standard
	Fe	**54**	**5139.877**	ug/L	107.740	2	87170	12457977	7	Standard
	Fe	**57**	**5090.238**	ug/L	73.936	1	19734	5009681	5	Standard
	Mn	**55**	**25.099**	ug/L	0.247	0	543	956913	6	Standard
>	**Ge**	**72**		ug/L			47594	46279	0	KED
	Cu	**63**	**27.360**	ug/L	0.309	1	50	127515	0	KED
	Cu	**65**	**27.187**	ug/L	0.111	0	27	65139	0	KED
	Zn	**66**	**84.555**	ug/L	0.234	0	27	52604	0	KED
	Zn	**67**	**79.043**	ug/L	0.659	0	7	8326	0	KED
	As	**75**	**25.521**	ug/L	0.268	1	4	8462	1	KED
	Y	**89**		ug/L			383646	367558	8	Standard
	Kr	**83**		ug/L			57	57	42	Standard
>	**In-1**	**115**		ug/L			11160	10976	2	KED
	Cd	**111**	**25.809**	ug/L	0.968	3	5	8778	1	KED
	Cd	**114**	**26.004**	ug/L	0.454	1	4	22857	1	KED
>	**In**	**115**		ug/L			610701	585220	9	Standard
	Ag	**107**	**25.604**	ug/L	0.215	0	85	491740	9	Standard
>	**Tb**	**159**		ug/L			1474680	1418214	4	Standard
	Pb	**208**	**27.474**	ug/L	0.182	0	274	2379639	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLD
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 04:04:24
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			41950	46415	2	Standard
⌈>	**Sc**	**45**		ug/L			787622	776764	1	Standard
|	**Cr**	**52**	**-0.027**	ug/L	0.005	17	20663	19699	2	Standard
|	**Cr**	**53**	**-0.075**	ug/L	0.007	9	443	213	11	Standard
|	**Fe**	**54**	**1.566**	ug/L	0.157	10	87170	89872	2	Standard
|	**Fe**	**57**	**0.653**	ug/L	0.705	107	19734	20130	4	Standard
⌊	**Mn**	**55**	**0.017**	ug/L	0.002	10	543	1221	6	Standard
⌈>	**Ge**	**72**		ug/L			47594	45835	0	KED
|	**Cu**	**63**	**0.030**	ug/L	0.008	27	50	187	20	KED
|	**Cu**	**65**	**0.029**	ug/L	0.008	26	27	95	19	KED
|	**Zn**	**66**	**0.301**	ug/L	0.043	14	27	211	12	KED
|	**Zn**	**67**	**0.258**	ug/L	0.048	18	7	34	14	KED
⌊	**As**	**75**	**0.006**	ug/L	0.004	73	4	5	23	KED
	Y	**89**		ug/L			383646	382297	2	Standard
	Kr	**83**		ug/L			57	43	18	Standard
⌈>	**In-1**	**115**		ug/L			11160	10951	1	KED
|	**Cd**	**111**	**-0.004**	ug/L	0.005	111	5	3	43	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.003	188	4	2	78	KED
⌈>	**In**	**115**		ug/L			610701	612836	2	Standard
⌊	**Ag**	**107**	**0.004**	ug/L	0.004	91	85	167	44	Standard
⌈>	**Tb**	**159**		ug/L			1474680	1454881	1	Standard
⌊	**Pb**	**208**	**0.013**	ug/L	0.006	43	274	1399	33	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVE
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 04:08:57
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			41950	45894	1	Standard
>	**Sc**	**45**		ug/L			787622	784912	2	Standard
	Cr	**52**	**47.424**	ug/L	0.176	0	20663	1248504	1	Standard
	Cr	**53**	**47.964**	ug/L	0.174	0	443	145408	2	Standard
	Fe	**54**	**5012.072**	ug/L	62.510	1	87170	12700625	3	Standard
	Fe	**57**	**4963.421**	ug/L	115.119	2	19734	5107054	1	Standard
	Mn	**55**	**47.963**	ug/L	1.067	2	543	1910070	0	Standard
>	**Ge**	**72**		ug/L			47594	47030	0	KED
	Cu	**63**	**51.160**	ug/L	0.986	1	50	242263	1	KED
	Cu	**65**	**49.839**	ug/L	0.612	1	27	121323	0	KED
	Zn	**66**	**51.262**	ug/L	0.769	1	27	32417	0	KED
	Zn	**67**	**50.613**	ug/L	1.496	2	7	5420	2	KED
	As	**75**	**49.593**	ug/L	0.633	1	4	16707	0	KED
	Y	**89**		ug/L			383646	380589	1	Standard
	Kr	**83**		ug/L			57	49	10	Standard
>	**In-1**	**115**		ug/L			11160	11028	1	KED
	Cd	**111**	**50.764**	ug/L	1.227	2	5	17347	0	KED
	Cd	**114**	**50.110**	ug/L	0.382	0	4	44256	1	KED
>	**In**	**115**		ug/L			610701	595779	1	Standard
	Ag	**107**	**51.508**	ug/L	0.601	1	85	1006679	0	Standard
>	**Tb**	**159**		ug/L			1474680	1468973	0	Standard
	Pb	**208**	**54.504**	ug/L	0.707	1	274	4888139	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBE
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 04:16:14
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			41950	43545	2	Standard
⌈>	**Sc**	**45**		ug/L			787622	785465	1	Standard
|	**Cr**	**52**	**-0.046**	ug/L	0.005	11	20663	19420	1	Standard
|	**Cr**	**53**	**-0.088**	ug/L	0.004	4	443	175	7	Standard
|	**Fe**	**54**	**-0.543**	ug/L	0.669	123	87170	85575	2	Standard
|	**Fe**	**57**	**0.055**	ug/L	0.345	626	19734	19739	2	Standard
⌊	**Mn**	**55**	**0.001**	ug/L	0.000	42	543	582	3	Standard
⌈>	**Ge**	**72**		ug/L			47594	48017	0	KED
|	**Cu**	**63**	**0.002**	ug/L	0.004	247	50	59	35	KED
|	**Cu**	**65**	**-0.001**	ug/L	0.003	379	27	25	31	KED
|	**Zn**	**66**	**0.051**	ug/L	0.007	13	27	60	6	KED
|	**Zn**	**67**	**-0.006**	ug/L	0.011	166	7	6	15	KED
⌊	**As**	**75**	**-0.002**	ug/L	0.002	78	4	3	15	KED
	Y	**89**		ug/L			383646	381655	2	Standard
	Kr	**83**		ug/L			57	48	19	Standard
⌈>	**In-1**	**115**		ug/L			11160	11436	1	KED
|	**Cd**	**111**	**0.026**	ug/L	0.056	216	5	14	134	KED
⌊	**Cd**	**114**	**0.025**	ug/L	0.049	199	4	26	167	KED
⌈>	**In**	**115**		ug/L			610701	613870	2	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.000	44	85	100	7	Standard
⌈>	**Tb**	**159**		ug/L			1474680	1466022	0	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	50	274	326	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0452-BLK1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 04:20:48
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			41950	84608	1	Standard
> Sc	45		ug/L			787622	790806	0	Standard
Cr	52	0.022	ug/L	0.018	81	20663	21315	2	Standard
Cr	53	-0.080	ug/L	0.007	8	443	202	11	Standard
Fe	54	6.556	ug/L	0.133	2	87170	104145	1	Standard
Fe	57	0.313	ug/L	0.085	27	19734	20138	1	Standard
Mn	55	0.009	ug/L	0.001	12	543	913	5	Standard
> Ge	72		ug/L			47594	47075	1	KED
Cu	63	0.302	ug/L	0.011	3	50	1482	2	KED
Cu	65	0.300	ug/L	0.013	4	27	758	4	KED
Zn	66	0.138	ug/L	0.015	10	27	114	7	KED
Zn	67	0.060	ug/L	0.044	73	7	13	34	KED
As	75	-0.006	ug/L	0.002	39	4	2	32	KED
Y	89		ug/L			383646	381726	1	Standard
Kr	83		ug/L			57	51	18	Standard
> In-1	115		ug/L			11160	11183	0	KED
Cd	111	-0.002	ug/L	0.003	143	5	4	20	KED
Cd	114	0.001	ug/L	0.001	199	4	4	26	KED
> In	115		ug/L			610701	629168	0	Standard
Ag	107	0.015	ug/L	0.002	15	85	400	11	Standard
> Tb	159		ug/L			1474680	1487842	1	Standard
Pb	208	0.001	ug/L	0.001	55	274	387	14	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0452-BS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 04:25:21
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			41950	81504	0	Standard
>	Sc	45		ug/L			787622	804564	0	Standard
	Cr	52	24.176	ug/L	0.396	1	20663	662769	1	Standard
	Cr	53	24.016	ug/L	0.497	2	443	74852	1	Standard
	Fe	54	7.750	ug/L	0.611	7	87170	109041	2	Standard
	Fe	57	-1.180	ug/L	0.176	14	19734	18918	1	Standard
	Mn	55	24.968	ug/L	0.090	0	543	1019793	0	Standard
>	Ge	72		ug/L			47594	46328	2	KED
	Cu	63	28.173	ug/L	0.770	2	50	131390	0	KED
	Cu	65	27.941	ug/L	0.522	1	27	66997	0	KED
	Zn	66	83.320	ug/L	1.880	2	27	51873	0	KED
	Zn	67	76.732	ug/L	2.954	3	7	8088	2	KED
	As	75	24.915	ug/L	0.515	2	4	8267	0	KED
	Y	89		ug/L			383646	388880	1	Standard
	Kr	83		ug/L			57	58	6	Standard
>	In-1	115		ug/L			11160	10734	1	KED
	Cd	111	26.416	ug/L	0.611	2	5	8790	1	KED
	Cd	114	25.765	ug/L	0.270	1	4	22153	2	KED
>	In	115		ug/L			610701	623250	2	Standard
	Ag	107	26.387	ug/L	0.174	0	85	539618	2	Standard
>	Tb	159		ug/L			1474680	1489864	1	Standard
	Pb	208	27.834	ug/L	0.217	0	274	2532227	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0658-01
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 04:29:54
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			41950	75191	0	Standard
⌈>	**Sc**	**45**		ug/L			787622	790804	2	Standard
|	**Cr**	**52**	**0.103**	ug/L	0.030	29	20663	23427	2	Standard
|	**Cr**	**53**	**1.096**	ug/L	0.017	1	443	3784	4	Standard
|	**Fe**	**54**	**-1.965**	ug/L	0.933	47	87170	82549	4	Standard
|	**Fe**	**57**	**-0.973**	ug/L	0.309	31	19734	18807	2	Standard
⌊	**Mn**	**55**	**0.029**	ug/L	0.001	3	543	1722	4	Standard
⌈>	**Ge**	**72**		ug/L			47594	44736	1	KED
|	**Cu**	**63**	**0.036**	ug/L	0.006	17	50	210	13	KED
|	**Cu**	**65**	**0.033**	ug/L	0.005	15	27	102	12	KED
|	**Zn**	**66**	**0.156**	ug/L	0.015	9	27	119	8	KED
|	**Zn**	**67**	**0.117**	ug/L	0.002	1	7	19	0	KED
⌊	**As**	**75**	**6.964**	ug/L	0.037	0	4	2235	1	KED
	Y	**89**		ug/L			383646	380218	0	Standard
	Kr	**83**		ug/L			57	46	8	Standard
⌈>	**In-1**	**115**		ug/L			11160	10187	1	KED
|	**Cd**	**111**	**0.012**	ug/L	0.025	213	5	8	90	KED
⌊	**Cd**	**114**	**0.019**	ug/L	0.026	134	4	19	107	KED
⌈>	**In**	**115**		ug/L			610701	603592	0	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.001	41	85	125	14	Standard
⌈>	**Tb**	**159**		ug/L			1474680	1458957	1	Standard
⌊	**Pb**	**208**	**0.002**	ug/L	0.000	5	274	492	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0658-05
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 04:34:51
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			41950	69702	0	Standard
⌈>	**Sc**	**45**		ug/L			787622	779918	2	Standard
|	**Cr**	**52**	**0.028**	ug/L	0.019	66	20663	21174	1	Standard
|	**Cr**	**53**	**-0.023**	ug/L	0.002	10	443	368	4	Standard
|	**Fe**	**54**	**-0.175**	ug/L	0.741	423	87170	85852	0	Standard
|	**Fe**	**57**	**-0.754**	ug/L	0.227	30	19734	18772	2	Standard
⌊	**Mn**	**55**	**0.010**	ug/L	0.001	7	543	934	5	Standard
⌈>	**Ge**	**72**		ug/L			47594	45938	0	KED
|	**Cu**	**63**	**0.025**	ug/L	0.004	16	50	163	10	KED
|	**Cu**	**65**	**0.025**	ug/L	0.002	9	27	86	5	KED
|	**Zn**	**66**	**0.156**	ug/L	0.014	9	27	122	7	KED
|	**Zn**	**67**	**0.124**	ug/L	0.036	29	7	20	19	KED
⌊	**As**	**75**	**-0.001**	ug/L	0.003	498	4	3	21	KED
	Y	**89**		ug/L			383646	382114	0	Standard
	Kr	**83**		ug/L			57	48	14	Standard
⌈>	**In-1**	**115**		ug/L			11160	10882	2	KED
|	**Cd**	**111**	**-0.003**	ug/L	0.003	98	5	4	26	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.004	765	4	3	103	KED
⌈>	**In**	**115**		ug/L			610701	612421	2	Standard
⌊	**Ag**	**107**	**-0.000**	ug/L	0.000	58	85	81	1	Standard
⌈>	**Tb**	**159**		ug/L			1474680	1473383	0	Standard
⌊	**Pb**	**208**	**0.002**	ug/L	0.000	23	274	466	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0690-07
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 04:40:48
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			41950	52201	1	Standard
⌈>	**Sc**	**45**		ug/L			787622	774957	0	Standard
|	**Cr**	**52**	**13.023**	ug/L	0.048	0	20663	353268	0	Standard
|	**Cr**	**53**	**13.492**	ug/L	0.041	0	443	40696	0	Standard
|	**Fe**	**54**	**0.039**	ug/L	0.872	2250	87170	85872	3	Standard
|	**Fe**	**57**	**0.564**	ug/L	0.504	89	19734	19990	3	Standard
⌊	**Mn**	**55**	**0.014**	ug/L	0.001	5	543	1096	3	Standard
⌈>	**Ge**	**72**		ug/L			47594	44955	0	KED
|	**Cu**	**63**	**0.051**	ug/L	0.008	15	50	277	13	KED
|	**Cu**	**65**	**0.053**	ug/L	0.005	8	27	148	6	KED
|	**Zn**	**66**	**0.064**	ug/L	0.017	26	27	64	15	KED
|	**Zn**	**67**	**0.041**	ug/L	0.036	88	7	11	33	KED
⌊	**As**	**75**	**3.016**	ug/L	0.037	1	4	975	1	KED
	Y	**89**		ug/L			383646	380484	1	Standard
	Kr	**83**		ug/L			57	58	16	Standard
⌈>	**In-1**	**115**		ug/L			11160	10527	1	KED
|	**Cd**	**111**	**-0.007**	ug/L	0.003	40	5	2	33	KED
⌊	**Cd**	**114**	**0.000**	ug/L	0.003	726	4	4	66	KED
⌈>	**In**	**115**		ug/L			610701	603280	1	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.001	38	85	58	17	Standard
⌈>	**Tb**	**159**		ug/L			1474680	1470659	1	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	12	274	403	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLE
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 04:45:45
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			41950	47265	2	Standard
⌈>	**Sc**	**45**		ug/L			787622	772902	2	Standard
|	**Cr**	**52**	**-0.008**	ug/L	0.008	104	20663	20079	2	Standard
|	**Cr**	**53**	**-0.043**	ug/L	0.003	6	443	307	5	Standard
|	**Fe**	**54**	**-0.368**	ug/L	0.844	229	87170	84592	1	Standard
|	**Fe**	**57**	**0.137**	ug/L	0.107	78	19734	19504	3	Standard
⌊	**Mn**	**55**	**0.015**	ug/L	0.001	3	543	1112	2	Standard
⌈>	**Ge**	**72**		ug/L			47594	45902	2	KED
|	**Cu**	**63**	**0.022**	ug/L	0.002	8	50	150	6	KED
|	**Cu**	**65**	**0.022**	ug/L	0.008	37	27	77	22	KED
|	**Zn**	**66**	**0.305**	ug/L	0.018	5	27	214	4	KED
|	**Zn**	**67**	**0.320**	ug/L	0.053	16	7	40	10	KED
⌊	**As**	**75**	**-0.005**	ug/L	0.002	29	4	2	24	KED
	Y	**89**		ug/L			383646	384880	2	Standard
	Kr	**83**		ug/L			57	47	10	Standard
⌈>	**In-1**	**115**		ug/L			11160	10808	1	KED
|	**Cd**	**111**	**-0.006**	ug/L	0.007	120	5	3	75	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.002	262	4	3	48	KED
⌈>	**In**	**115**		ug/L			610701	601931	2	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.000	38	85	69	10	Standard
⌈>	**Tb**	**159**		ug/L			1474680	1457028	0	Standard
⌊	**Pb**	**208**	**0.008**	ug/L	0.000	4	274	984	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0137-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, May 02, 2023 04:50:19
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			41950	63757	0	Standard
⌈>	**Sc**	**45**		ug/L			787622	882545	0	Standard
|	**Cr**	**52**	**-0.056**	ug/L	0.011	20	20663	21517	2	Standard
|	**Cr**	**53**	**0.128**	ug/L	0.016	12	443	930	5	Standard
|	**Fe**	**54**	**1782.500**	ug/L	28.230	1	87170	5141074	2	Standard
|	**Fe**	**57**	**1767.437**	ug/L	58.868	3	19734	2059910	4	Standard
⌊	**Mn**	**55**	**19.783**	ug/L	0.128	0	543	886467	1	Standard
⌈>	**Ge**	**72**		ug/L			47594	45883	1	KED
|	**Cu**	**63**	**0.420**	ug/L	0.013	3	50	1987	1	KED
|	**Cu**	**65**	**0.420**	ug/L	0.019	4	27	1024	4	KED
|	**Zn**	**66**	**2.565**	ug/L	0.054	2	27	1607	3	KED
|	**Zn**	**67**	**2.432**	ug/L	0.145	5	7	260	4	KED
⌊	**As**	**75**	**0.049**	ug/L	0.008	16	4	20	14	KED
	Y	**89**		ug/L			383646	394520	4	Standard
	Kr	**83**		ug/L			57	41	25	Standard
⌈>	**In-1**	**115**		ug/L			11160	10601	1	KED
|	**Cd**	**111**	**-0.001**	ug/L	0.000	15	5	4	0	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.004	675	4	3	107	KED
⌈>	**In**	**115**		ug/L			610701	616589	3	Standard
⌊	**Ag**	**107**	**-0.000**	ug/L	0.001	490	85	82	18	Standard
⌈>	**Tb**	**159**		ug/L			1474680	1484404	0	Standard
⌊	**Pb**	**208**	**0.002**	ug/L	0.000	23	274	424	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0592-DUP4
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, May 02, 2023 04:54:46
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			41950	63022	1	Standard
⌈>	**Sc**	**45**		ug/L			787622	879269	2	Standard
|	**Cr**	**52**	**-0.040**	ug/L	0.014	35	20663	21907	0	Standard
|	**Cr**	**53**	**0.132**	ug/L	0.008	6	443	940	2	Standard
|	**Fe**	**54**	**1867.572**	ug/L	31.579	1	87170	5360384	1	Standard
|	**Fe**	**57**	**1867.992**	ug/L	20.001	1	19734	2167169	1	Standard
⌊	**Mn**	**55**	**20.966**	ug/L	0.303	1	543	935790	0	Standard
⌈>	**Ge**	**72**		ug/L			47594	45836	0	KED
|	**Cu**	**63**	**0.635**	ug/L	0.022	3	50	2978	3	KED
|	**Cu**	**65**	**0.628**	ug/L	0.014	2	27	1515	2	KED
|	**Zn**	**66**	**2.910**	ug/L	0.079	2	27	1818	2	KED
|	**Zn**	**67**	**2.353**	ug/L	0.236	10	7	252	10	KED
⌊	**As**	**75**	**0.055**	ug/L	0.005	9	4	21	7	KED
	Y	**89**		ug/L			383646	383771	2	Standard
	Kr	**83**		ug/L			57	54	26	Standard
⌈>	**In-1**	**115**		ug/L			11160	10787	1	KED
|	**Cd**	**111**	**-0.014**	ug/L	0.002	12	5	0	86	KED
⌊	**Cd**	**114**	**0.003**	ug/L	0.003	105	4	6	36	KED
⌈>	**In**	**115**		ug/L			610701	622385	1	Standard
⌊	**Ag**	**107**	**0.000**	ug/L	0.001	309	85	90	12	Standard
⌈>	**Tb**	**159**		ug/L			1474680	1508952	1	Standard
⌊	**Pb**	**208**	**0.012**	ug/L	0.000	3	274	1386	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0592-MS4
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, May 02, 2023 04:59:42
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			41950	64312	0	Standard
>	Sc	45		ug/L			787622	896228	0	Standard
	Cr	52	10.807	ug/L	0.257	2	20663	343066	3	Standard
	Cr	53	10.837	ug/L	0.183	1	443	37909	2	Standard
	Fe	54	1744.720	ug/L	0.895	0	87170	5111910	0	Standard
	Fe	57	1731.163	ug/L	38.944	2	19734	2049300	3	Standard
	Mn	55	31.133	ug/L	0.397	1	543	1416428	1	Standard
>	Ge	72		ug/L			47594	47146	0	KED
	Cu	63	14.093	ug/L	0.269	1	50	66940	2	KED
	Cu	65	13.968	ug/L	0.073	0	27	34107	0	KED
	Zn	66	44.972	ug/L	0.779	1	27	28514	1	KED
	Zn	67	43.110	ug/L	0.870	2	7	4629	1	KED
	As	75	12.592	ug/L	0.179	1	4	4255	1	KED
	Y	89		ug/L			383646	396745	1	Standard
	Kr	83		ug/L			57	52	21	Standard
>	In-1	115		ug/L			11160	10890	3	KED
	Cd	111	13.270	ug/L	0.601	4	5	4479	1	KED
	Cd	114	13.058	ug/L	0.384	2	4	11385	0	KED
>	In	115		ug/L			610701	624977	2	Standard
	Ag	107	13.063	ug/L	0.314	2	85	267873	2	Standard
>	Tb	159		ug/L			1474680	1532864	1	Standard
	Pb	208	13.698	ug/L	0.090	0	274	1282169	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLF
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 05:04:10
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			41950	46870	0	Standard
⌈>	**Sc**	**45**		ug/L			787622	781104	1	Standard
|	**Cr**	**52**	**-0.034**	ug/L	0.004	12	20663	19610	1	Standard
|	**Cr**	**53**	**-0.065**	ug/L	0.008	11	443	243	7	Standard
|	**Fe**	**54**	**-0.081**	ug/L	1.150	1415	87170	86212	1	Standard
|	**Fe**	**57**	**-0.249**	ug/L	0.291	116	19734	19313	0	Standard
⌊	**Mn**	**55**	**0.023**	ug/L	0.011	46	543	1448	27	Standard
⌈>	**Ge**	**72**		ug/L			47594	45872	0	KED
|	**Cu**	**63**	**0.024**	ug/L	0.003	13	50	157	9	KED
|	**Cu**	**65**	**0.023**	ug/L	0.006	24	27	81	16	KED
|	**Zn**	**66**	**0.274**	ug/L	0.020	7	27	194	5	KED
|	**Zn**	**67**	**0.210**	ug/L	0.022	10	7	29	7	KED
⌊	**As**	**75**	**-0.004**	ug/L	0.003	68	4	2	39	KED
	Y	**89**		ug/L			383646	383196	1	Standard
	Kr	**83**		ug/L			57	50	15	Standard
⌈>	**In-1**	**115**		ug/L			11160	10459	3	KED
|	**Cd**	**111**	**-0.003**	ug/L	0.002	73	5	4	13	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.002	136	4	5	36	KED
⌈>	**In**	**115**		ug/L			610701	615975	0	Standard
⌊	**Ag**	**107**	**0.003**	ug/L	0.004	111	85	153	48	Standard
⌈>	**Tb**	**159**		ug/L			1474680	1472981	0	Standard
⌊	**Pb**	**208**	**0.011**	ug/L	0.003	25	274	1265	20	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVF
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 05:08:43
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			41950	44448	0	Standard
⌈>	**Sc**	**45**		ug/L			787622	791060	2	Standard
|	**Cr**	**52**	**47.134**	ug/L	0.286	0	20663	1250677	2	Standard
|	**Cr**	**53**	**47.145**	ug/L	0.330	0	443	144059	2	Standard
|	**Fe**	**54**	**5041.824**	ug/L	48.757	0	87170	12871226	1	Standard
|	**Fe**	**57**	**4890.910**	ug/L	27.940	0	19734	5073201	2	Standard
⌊	**Mn**	**55**	**48.018**	ug/L	0.799	1	543	1927316	1	Standard
⌈>	**Ge**	**72**		ug/L			47594	46311	0	KED
|	**Cu**	**63**	**51.990**	ug/L	0.699	1	50	242431	1	KED
|	**Cu**	**65**	**51.555**	ug/L	0.823	1	27	123579	1	KED
|	**Zn**	**66**	**52.603**	ug/L	0.684	1	27	32758	1	KED
|	**Zn**	**67**	**50.387**	ug/L	1.140	2	7	5314	2	KED
⌊	**As**	**75**	**50.150**	ug/L	0.183	0	4	16637	0	KED
	Y	**89**		ug/L			383646	387989	2	Standard
	Kr	**83**		ug/L			57	67	9	Standard
⌈>	**In-1**	**115**		ug/L			11160	10549	2	KED
|	**Cd**	**111**	**51.832**	ug/L	1.110	2	5	16943	0	KED
⌊	**Cd**	**114**	**51.931**	ug/L	0.775	1	4	43865	0	KED
⌈>	**In**	**115**		ug/L			610701	604534	1	Standard
⌊	**Ag**	**107**	**50.625**	ug/L	1.081	2	85	1004099	3	Standard
⌈>	**Tb**	**159**		ug/L			1474680	1495189	1	Standard
⌊	**Pb**	**208**	**54.509**	ug/L	0.742	1	274	4975422	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBF
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 05:16:01
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			41950	43809	0	Standard
⌈>	**Sc**	**45**		ug/L			787622	796829	0	Standard
|	**Cr**	**52**	**-0.051**	ug/L	0.012	23	20663	19558	0	Standard
|	**Cr**	**53**	**-0.088**	ug/L	0.003	3	443	179	4	Standard
|	**Fe**	**54**	**-0.237**	ug/L	0.978	412	87170	87587	3	Standard
|	**Fe**	**57**	**1.102**	ug/L	0.027	2	19734	21112	0	Standard
⌊	**Mn**	**55**	**0.001**	ug/L	0.000	21	543	588	0	Standard
⌈>	**Ge**	**72**		ug/L			47594	47794	2	KED
|	**Cu**	**63**	**-0.000**	ug/L	0.002	6656	50	50	13	KED
|	**Cu**	**65**	**-0.000**	ug/L	0.003	1248	27	26	31	KED
|	**Zn**	**66**	**0.043**	ug/L	0.012	28	27	55	13	KED
|	**Zn**	**67**	**0.011**	ug/L	0.027	236	7	8	32	KED
⌊	**As**	**75**	**-0.001**	ug/L	0.007	722	4	3	57	KED
	Y	**89**		ug/L			383646	393487	1	Standard
	Kr	**83**		ug/L			57	48	17	Standard
⌈>	**In-1**	**115**		ug/L			11160	11300	0	KED
|	**Cd**	**111**	**-0.009**	ug/L	0.002	17	5	2	24	KED
⌊	**Cd**	**114**	**0.000**	ug/L	0.003	4025	4	4	67	KED
⌈>	**In**	**115**		ug/L			610701	614601	0	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.001	54	85	106	11	Standard
⌈>	**Tb**	**159**		ug/L			1474680	1501941	1	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	84	274	305	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 05:20:34
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				44209	2	Standard
>	**Sc**	**45**		ug/L				782863	1	Standard
	Cr	**52**		ug/L				19712	2	Standard
	Cr	**53**		ug/L				193	7	Standard
	Fe	**54**		ug/L				85331	0	Standard
	Fe	**57**		ug/L				21088	0	Standard
	Mn	**55**		ug/L				544	4	Standard
>	**Ge**	**72**		ug/L				46611	1	KED
	Cu	**63**		ug/L				60	32	KED
	Cu	**65**		ug/L				30	6	KED
	Zn	**66**		ug/L				33	6	KED
	Zn	**67**		ug/L				4	89	KED
	As	**75**		ug/L				2	32	KED
	Y	**89**		ug/L				391138	2	Standard
	Kr	**83**		ug/L				46	14	Standard
>	**In-1**	**115**		ug/L				10762	0	KED
	Cd	**111**		ug/L				5	65	KED
	Cd	**114**		ug/L				4	22	KED
>	**In**	**115**		ug/L				626853	1	Standard
	Ag	**107**		ug/L				83	4	Standard
>	**Tb**	**159**		ug/L				1475140	1	Standard
	Pb	**208**		ug/L				279	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVG
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 05:25:07
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			44209	44306	1	Standard
⌈>	**Sc**	**45**		ug/L			782863	786307	2	Standard
|	**Cr**	**52**	**47.018**	ug/L	0.880	1	19712	1239066	0	Standard
|	**Cr**	**53**	**46.790**	ug/L	0.524	1	193	141838	1	Standard
|	**Fe**	**54**	**5033.104**	ug/L	109.259	2	85331	12768314	0	Standard
|	**Fe**	**57**	**5013.969**	ug/L	30.214	0	21088	5170499	1	Standard
⌊	**Mn**	**55**	**48.902**	ug/L	0.330	0	544	1951381	1	Standard
⌈>	**Ge**	**72**		ug/L			46611	46625	0	KED
|	**Cu**	**63**	**51.422**	ug/L	0.797	1	60	241420	1	KED
|	**Cu**	**65**	**51.625**	ug/L	0.066	0	30	124598	0	KED
|	**Zn**	**66**	**51.727**	ug/L	0.547	1	33	32436	0	KED
|	**Zn**	**67**	**50.741**	ug/L	1.057	2	4	5385	2	KED
⌊	**As**	**75**	**49.968**	ug/L	0.578	1	2	16687	0	KED
	Y	**89**		ug/L			391138	385430	3	Standard
	Kr	**83**		ug/L			46	57	18	Standard
⌈>	**In-1**	**115**		ug/L			10762	11021	1	KED
|	**Cd**	**111**	**49.812**	ug/L	1.152	2	5	17012	1	KED
⌊	**Cd**	**114**	**49.221**	ug/L	1.028	2	4	43436	0	KED
⌈>	**In**	**115**		ug/L			626853	612201	2	Standard
⌊	**Ag**	**107**	**49.947**	ug/L	1.435	2	83	1002608	0	Standard
⌈>	**Tb**	**159**		ug/L			1475140	1481830	1	Standard
⌊	**Pb**	**208**	**54.129**	ug/L	0.777	1	279	4896971	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBG
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 05:32:25
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			44209	43491	3	Standard
⌈>	**Sc**	**45**		ug/L			782863	784161	2	Standard
|	**Cr**	**52**	**-0.012**	ug/L	0.013	106	19712	19421	0	Standard
|	**Cr**	**53**	**-0.009**	ug/L	0.001	14	193	165	4	Standard
|	**Fe**	**54**	**0.528**	ug/L	0.270	51	85331	86789	1	Standard
|	**Fe**	**57**	**-0.763**	ug/L	0.280	36	21088	20338	0	Standard
⌊	**Mn**	**55**	**0.000**	ug/L	0.000	623	544	547	1	Standard
⌈>	**Ge**	**72**		ug/L			46611	47476	1	KED
|	**Cu**	**63**	**-0.002**	ug/L	0.002	88	60	52	18	KED
|	**Cu**	**65**	**-0.001**	ug/L	0.003	438	30	29	26	KED
|	**Zn**	**66**	**0.030**	ug/L	0.010	34	33	52	11	KED
|	**Zn**	**67**	**0.046**	ug/L	0.001	2	4	9	0	KED
⌊	**As**	**75**	**0.007**	ug/L	0.004	60	2	4	31	KED
	Y	**89**		ug/L			391138	390802	1	Standard
	Kr	**83**		ug/L			46	49	17	Standard
⌈>	**In-1**	**115**		ug/L			10762	11287	1	KED
|	**Cd**	**111**	**-0.003**	ug/L	0.002	49	5	4	13	KED
⌊	**Cd**	**114**	**-0.004**	ug/L	0.002	54	4	1	112	KED
⌈>	**In**	**115**		ug/L			626853	607956	0	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.000	8	83	125	2	Standard
⌈>	**Tb**	**159**		ug/L			1475140	1477351	0	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	45	279	316	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0504-BLK1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 05:36:58
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			44209	82184	0	Standard
> Sc	45		ug/L			782863	791261	1	Standard
Cr	52	0.056	ug/L	0.003	6	19712	21378	0	Standard
Cr	53	0.002	ug/L	0.002	106	193	200	3	Standard
Fe	54	4.978	ug/L	0.167	3	85331	98870	0	Standard
Fe	57	1.441	ug/L	0.247	17	21088	22804	1	Standard
Mn	55	0.015	ug/L	0.001	6	544	1150	4	Standard
> Ge	72		ug/L			46611	47256	0	KED
Cu	63	0.287	ug/L	0.014	4	60	1426	4	KED
Cu	65	0.280	ug/L	0.018	6	30	716	6	KED
Zn	66	0.055	ug/L	0.011	19	33	68	10	KED
Zn	67	0.023	ug/L	0.041	177	4	6	62	KED
As	75	0.005	ug/L	0.006	139	2	3	57	KED
Y	89		ug/L			391138	392248	1	Standard
Kr	83		ug/L			46	48	42	Standard
> In-1	115		ug/L			10762	10948	2	KED
Cd	111	0.001	ug/L	0.003	486	5	5	20	KED
Cd	114	-0.007	ug/L	0.006	85	4	0	550	KED
> In	115		ug/L			626853	627923	2	Standard
Ag	107	0.005	ug/L	0.000	8	83	195	2	Standard
> Tb	159		ug/L			1475140	1465017	1	Standard
Pb	208	0.001	ug/L	0.000	6	279	343	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0504-BS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 05:41:31
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			44209	80631	0	Standard
> Sc	45		ug/L			782863	795059	0	Standard
Cr	52	24.562	ug/L	0.375	1	19712	664189	0	Standard
Cr	53	24.747	ug/L	0.429	1	193	75964	2	Standard
Fe	54	7.032	ug/L	0.455	6	85331	104589	2	Standard
Fe	57	-1.074	ug/L	0.154	14	21088	20302	1	Standard
Mn	55	25.193	ug/L	0.246	0	544	1016890	1	Standard
> Ge	72		ug/L			46611	46499	0	KED
Cu	63	28.341	ug/L	0.675	2	60	132724	2	KED
Cu	65	28.343	ug/L	0.538	1	30	68233	1	KED
Zn	66	84.157	ug/L	1.628	1	33	52612	2	KED
Zn	67	78.550	ug/L	1.393	1	4	8311	2	KED
As	75	24.987	ug/L	0.057	0	2	8323	0	KED
Y	89		ug/L			391138	390472	4	Standard
Kr	83		ug/L			46	45	7	Standard
> In-1	115		ug/L			10762	11016	2	KED
Cd	111	25.585	ug/L	0.673	2	5	8735	0	KED
Cd	114	25.497	ug/L	0.739	2	4	22489	1	KED
> In	115		ug/L			626853	626761	2	Standard
Ag	107	26.065	ug/L	0.470	1	83	535865	1	Standard
> Tb	159		ug/L			1475140	1485321	1	Standard
Pb	208	27.975	ug/L	0.715	2	279	2536651	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0715-03
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 05:46:04
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			44209	51414	1	Standard
⌈>	**Sc**	**45**		ug/L			782863	780169	1	Standard
|	**Cr**	**52**	**17.258**	ug/L	0.408	2	19712	463696	0	Standard
|	**Cr**	**53**	**17.573**	ug/L	0.011	0	193	52985	1	Standard
|	**Fe**	**54**	**1.174**	ug/L	0.534	45	85331	87986	3	Standard
|	**Fe**	**57**	**-1.229**	ug/L	0.305	24	21088	19765	2	Standard
⌊	**Mn**	**55**	**1.418**	ug/L	0.010	0	544	56674	2	Standard
⌈>	**Ge**	**72**		ug/L			46611	44764	0	KED
|	**Cu**	**63**	**0.071**	ug/L	0.004	5	60	378	4	KED
|	**Cu**	**65**	**0.077**	ug/L	0.006	7	30	208	6	KED
|	**Zn**	**66**	**0.206**	ug/L	0.028	13	33	155	9	KED
|	**Zn**	**67**	**0.332**	ug/L	0.064	19	4	38	18	KED
⌊	**As**	**75**	**2.566**	ug/L	0.072	2	2	824	3	KED
	Y	**89**		ug/L			391138	389260	2	Standard
	Kr	**83**		ug/L			46	48	11	Standard
⌈>	**In-1**	**115**		ug/L			10762	10309	2	KED
|	**Cd**	**111**	**-0.000**	ug/L	0.006	2587	5	4	40	KED
⌊	**Cd**	**114**	**0.003**	ug/L	0.004	139	4	6	41	KED
⌈>	**In**	**115**		ug/L			626853	613056	3	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.001	44	83	121	11	Standard
⌈>	**Tb**	**159**		ug/L			1475140	1475589	1	Standard
⌊	**Pb**	**208**	**0.005**	ug/L	0.000	8	279	753	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0715-05
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 05:51:01
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			44209	52799	3	Standard
⌈>	**Sc**	**45**		ug/L			782863	783436	1	Standard
|	**Cr**	**52**	**7.362**	ug/L	0.162	2	19712	209989	2	Standard
|	**Cr**	**53**	**8.117**	ug/L	0.065	0	193	24682	2	Standard
|	**Fe**	**54**	**-0.416**	ug/L	0.436	104	85331	84355	2	Standard
|	**Fe**	**57**	**-1.132**	ug/L	0.452	39	21088	19940	0	Standard
⌊	**Mn**	**55**	**0.062**	ug/L	0.001	1	544	3025	2	Standard
⌈>	**Ge**	**72**		ug/L			46611	45079	1	KED
|	**Cu**	**63**	**0.062**	ug/L	0.006	9	60	339	7	KED
|	**Cu**	**65**	**0.059**	ug/L	0.000	0	30	166	0	KED
|	**Zn**	**66**	**0.023**	ug/L	0.031	136	33	45	41	KED
|	**Zn**	**67**	**0.088**	ug/L	0.038	42	4	13	28	KED
⌊	**As**	**75**	**3.051**	ug/L	0.050	1	2	987	2	KED
	Y	**89**		ug/L			391138	392473	0	Standard
	Kr	**83**		ug/L			46	50	18	Standard
⌈>	**In-1**	**115**		ug/L			10762	10356	0	KED
|	**Cd**	**111**	**-0.001**	ug/L	0.004	260	5	4	24	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.001	48	4	2	47	KED
⌈>	**In**	**115**		ug/L			626853	606096	1	Standard
⌊	**Ag**	**107**	**0.000**	ug/L	0.000	261	83	83	9	Standard
⌈>	**Tb**	**159**		ug/L			1475140	1498680	0	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	170	279	308	13	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0715-07
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 05:56:58
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			44209	52859	2	Standard
⌈>	**Sc**	**45**		ug/L			782863	784279	1	Standard
|	**Cr**	**52**	**7.014**	ug/L	0.207	2	19712	201172	1	Standard
|	**Cr**	**53**	**7.835**	ug/L	0.173	2	193	23856	3	Standard
|	**Fe**	**54**	**-0.402**	ug/L	0.857	213	85331	84496	4	Standard
|	**Fe**	**57**	**0.316**	ug/L	0.436	138	21088	21448	2	Standard
⌊	**Mn**	**55**	**0.058**	ug/L	0.001	1	544	2857	1	Standard
⌈>	**Ge**	**72**		ug/L			46611	44879	0	KED
|	**Cu**	**63**	**0.047**	ug/L	0.004	8	60	269	6	KED
|	**Cu**	**65**	**0.049**	ug/L	0.001	2	30	142	2	KED
|	**Zn**	**66**	**0.080**	ug/L	0.014	17	33	80	9	KED
|	**Zn**	**67**	**0.138**	ug/L	0.045	32	4	18	26	KED
⌊	**As**	**75**	**2.953**	ug/L	0.113	3	2	951	3	KED
	Y	**89**		ug/L			391138	388832	2	Standard
	Kr	**83**		ug/L			46	45	16	Standard
⌈>	**In-1**	**115**		ug/L			10762	10192	1	KED
|	**Cd**	**111**	**-0.010**	ug/L	0.002	16	5	1	34	KED
⌊	**Cd**	**114**	**0.004**	ug/L	0.003	62	4	8	26	KED
⌈>	**In**	**115**		ug/L			626853	613807	1	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.001	55	83	61	19	Standard
⌈>	**Tb**	**159**		ug/L			1475140	1481521	0	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	104	279	314	12	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLG
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 06:01:55
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			44209	44136	1	Standard
⌈>	**Sc**	**45**		ug/L			782863	768808	2	Standard
|	**Cr**	**52**	**0.033**	ug/L	0.013	39	19712	20181	1	Standard
|	**Cr**	**53**	**0.031**	ug/L	0.002	6	193	280	4	Standard
|	**Fe**	**54**	**0.301**	ug/L	0.687	228	85331	84513	0	Standard
|	**Fe**	**57**	**1.467**	ug/L	0.139	9	21088	22181	2	Standard
⌊	**Mn**	**55**	**0.005**	ug/L	0.000	7	544	730	2	Standard
⌈>	**Ge**	**72**		ug/L			46611	45763	1	KED
|	**Cu**	**63**	**0.145**	ug/L	0.005	3	60	727	3	KED
|	**Cu**	**65**	**0.142**	ug/L	0.011	7	30	365	8	KED
|	**Zn**	**66**	**0.234**	ug/L	0.015	6	33	176	5	KED
|	**Zn**	**67**	**0.251**	ug/L	0.021	8	4	30	6	KED
⌊	**As**	**75**	**0.002**	ug/L	0.002	118	2	2	28	KED
	Y	**89**		ug/L			391138	387773	1	Standard
	Kr	**83**		ug/L			46	40	18	Standard
⌈>	**In-1**	**115**		ug/L			10762	10298	0	KED
|	**Cd**	**111**	**-0.007**	ug/L	0.005	62	5	2	57	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.003	115	4	2	79	KED
⌈>	**In**	**115**		ug/L			626853	619481	1	Standard
⌊	**Ag**	**107**	**-0.002**	ug/L	0.000	23	83	47	16	Standard
⌈>	**Tb**	**159**		ug/L			1475140	1470810	0	Standard
⌊	**Pb**	**208**	**0.005**	ug/L	0.000	5	279	700	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0135-02
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 06:06:28
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			44209	75219	3	Standard
⌈>	**Sc**	**45**		ug/L			782863	958323	3	Standard
|	**Cr**	**52**	**0.143**	ug/L	0.038	26	19712	28634	2	Standard
|	**Cr**	**53**	**0.772**	ug/L	0.038	4	193	3081	1	Standard
|	**Fe**	**54**	**185.590**	ug/L	10.889	5	85331	673948	2	Standard
|	**Fe**	**57**	**199.365**	ug/L	7.583	3	21088	275182	1	Standard
⌊	**Mn**	**55**	**26.051**	ug/L	0.489	1	544	1266889	1	Standard
⌈>	**Ge**	**72**		ug/L			46611	44811	1	KED
|	**Cu**	**63**	**0.547**	ug/L	0.019	3	60	2527	2	KED
|	**Cu**	**65**	**0.558**	ug/L	0.048	8	30	1321	7	KED
|	**Zn**	**66**	**1.606**	ug/L	0.017	1	33	998	1	KED
|	**Zn**	**67**	**1.759**	ug/L	0.126	7	4	183	5	KED
⌊	**As**	**75**	**0.774**	ug/L	0.081	10	2	250	9	KED
	Y	**89**		ug/L			391138	383705	7	Standard
	Kr	**83**		ug/L			46	58	9	Standard
⌈>	**In-1**	**115**		ug/L			10762	10323	1	KED
|	**Cd**	**111**	**-0.004**	ug/L	0.008	181	5	3	68	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.004	323	4	5	63	KED
⌈>	**In**	**115**		ug/L			626853	598243	6	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.001	61	83	97	5	Standard
⌈>	**Tb**	**159**		ug/L			1475140	1463985	4	Standard
⌊	**Pb**	**208**	**0.066**	ug/L	0.005	7	279	6133	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0509-DUP3
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 06:10:55
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			44209	78843	1	Standard
⌈>	Sc	45		ug/L			782863	961929	1	Standard
|	Cr	52	0.143	ug/L	0.004	3	19712	28744	1	Standard
|	Cr	53	0.772	ug/L	0.013	1	193	3098	2	Standard
|	Fe	54	176.433	ug/L	2.728	1	85331	648964	2	Standard
|	Fe	57	194.146	ug/L	3.376	1	21088	269884	2	Standard
⌊	Mn	55	24.881	ug/L	0.467	1	544	1215203	2	Standard
⌈>	Ge	72		ug/L			46611	44497	0	KED
|	Cu	63	0.392	ug/L	0.026	6	60	1814	5	KED
|	Cu	65	0.390	ug/L	0.020	5	30	927	5	KED
|	Zn	66	1.476	ug/L	0.122	8	33	913	7	KED
|	Zn	67	1.703	ug/L	0.071	4	4	176	3	KED
⌊	As	75	0.723	ug/L	0.028	3	2	232	3	KED
	Y	89		ug/L			391138	406283	2	Standard
	Kr	83		ug/L			46	49	30	Standard
⌈>	In-1	115		ug/L			10762	10330	0	KED
|	Cd	111	0.004	ug/L	0.002	47	5	6	9	KED
⌊	Cd	114	-0.001	ug/L	0.004	308	4	3	80	KED
⌈>	In	115		ug/L			626853	616074	1	Standard
⌊	Ag	107	0.000	ug/L	0.000	167	83	85	6	Standard
⌈>	Tb	159		ug/L			1475140	1510143	2	Standard
⌊	Pb	208	0.064	ug/L	0.002	2	279	6185	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0509-MS3
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 06:15:52
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			44209	73667	0	Standard
> Sc	45		ug/L			782863	979920	1	Standard
Cr	52	19.442	ug/L	0.132	0	19712	653127	1	Standard
Cr	53	20.078	ug/L	0.078	0	193	76000	1	Standard
Fe	54	172.847	ug/L	1.223	0	85331	649759	1	Standard
Fe	57	190.836	ug/L	4.710	2	21088	270720	3	Standard
Mn	55	45.782	ug/L	0.350	0	544	2277152	2	Standard
> Ge	72		ug/L			46611	44936	1	KED
Cu	63	28.770	ug/L	0.238	0	60	130204	0	KED
Cu	65	27.938	ug/L	0.426	1	30	64993	0	KED
Zn	66	85.195	ug/L	1.131	1	33	51465	0	KED
Zn	67	79.658	ug/L	2.507	3	4	8143	2	KED
As	75	26.763	ug/L	0.543	2	2	8614	0	KED
Y	89		ug/L			391138	404391	2	Standard
Kr	83		ug/L			46	48	15	Standard
> In-1	115		ug/L			10762	10491	0	KED
Cd	111	26.188	ug/L	0.255	0	5	8518	0	KED
Cd	114	26.050	ug/L	0.182	0	4	21890	0	KED
> In	115		ug/L			626853	620006	3	Standard
Ag	107	25.817	ug/L	0.333	1	83	525025	2	Standard
> Tb	159		ug/L			1475140	1508093	2	Standard
Pb	208	28.293	ug/L	0.657	2	279	2604344	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLH
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 06:20:20
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			44209	44868	1	Standard
⌈>	**Sc**	**45**		ug/L			782863	770860	0	Standard
|	**Cr**	**52**	**0.028**	ug/L	0.019	67	19712	20133	2	Standard
|	**Cr**	**53**	**0.025**	ug/L	0.007	29	193	264	7	Standard
|	**Fe**	**54**	**0.401**	ug/L	0.544	135	85331	85013	1	Standard
|	**Fe**	**57**	**-1.703**	ug/L	0.465	27	21088	19051	2	Standard
⌊	**Mn**	**55**	**0.007**	ug/L	0.000	4	544	827	1	Standard
⌈>	**Ge**	**72**		ug/L			46611	45845	0	KED
|	**Cu**	**63**	**0.148**	ug/L	0.006	4	60	744	3	KED
|	**Cu**	**65**	**0.145**	ug/L	0.004	2	30	373	2	KED
|	**Zn**	**66**	**0.263**	ug/L	0.039	14	33	194	12	KED
|	**Zn**	**67**	**0.153**	ug/L	0.059	38	4	20	30	KED
⌊	**As**	**75**	**0.006**	ug/L	0.005	81	2	4	40	KED
	Y	**89**		ug/L			391138	387381	0	Standard
	Kr	**83**		ug/L			46	50	15	Standard
⌈>	**In-1**	**115**		ug/L			10762	10595	2	KED
|	**Cd**	**111**	**-0.003**	ug/L	0.009	334	5	4	66	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.002	182	4	6	36	KED
⌈>	**In**	**115**		ug/L			626853	626279	2	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.001	41	83	114	10	Standard
⌈>	**Tb**	**159**		ug/L			1475140	1476212	1	Standard
⌊	**Pb**	**208**	**0.005**	ug/L	0.001	10	279	773	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVH
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 06:24:54
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			44209	44825	1	Standard
⌈>	**Sc**	**45**		ug/L			782863	782717	1	Standard
|	**Cr**	**52**	**46.808**	ug/L	0.503	1	19712	1228356	1	Standard
|	**Cr**	**53**	**47.294**	ug/L	0.818	1	193	142729	1	Standard
|	**Fe**	**54**	**4970.349**	ug/L	58.585	1	85331	12557303	1	Standard
|	**Fe**	**57**	**4970.155**	ug/L	53.230	1	21088	5102905	2	Standard
⌊	**Mn**	**55**	**48.162**	ug/L	0.819	1	544	1913054	0	Standard
⌈>	**Ge**	**72**		ug/L			46611	45569	1	KED
|	**Cu**	**63**	**52.940**	ug/L	1.034	1	60	242889	1	KED
|	**Cu**	**65**	**52.713**	ug/L	1.399	2	30	124315	1	KED
|	**Zn**	**66**	**53.364**	ug/L	1.447	2	33	32698	1	KED
|	**Zn**	**67**	**52.135**	ug/L	0.689	1	4	5407	1	KED
⌊	**As**	**75**	**50.190**	ug/L	0.676	1	2	16380	0	KED
	Y	**89**		ug/L			391138	395417	1	Standard
	Kr	**83**		ug/L			46	43	4	Standard
⌈>	**In-1**	**115**		ug/L			10762	10563	2	KED
|	**Cd**	**111**	**51.290**	ug/L	0.853	1	5	16788	0	KED
⌊	**Cd**	**114**	**50.907**	ug/L	0.282	0	4	43065	2	KED
⌈>	**In**	**115**		ug/L			626853	612165	0	Standard
⌊	**Ag**	**107**	**49.777**	ug/L	1.017	2	83	999623	1	Standard
⌈>	**Tb**	**159**		ug/L			1475140	1492732	0	Standard
⌊	**Pb**	**208**	**54.598**	ug/L	0.321	0	279	4976072	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBH
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 06:32:11
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			44209	43548	1	Standard
⌈>	**Sc**	**45**		ug/L			782863	787020	2	Standard
|	**Cr**	**52**	**-0.017**	ug/L	0.014	81	19712	19359	2	Standard
|	**Cr**	**53**	**0.000**	ug/L	0.006	2032	193	194	6	Standard
|	**Fe**	**54**	**-0.058**	ug/L	0.761	1320	85331	85606	0	Standard
|	**Fe**	**57**	**-0.461**	ug/L	0.364	78	21088	20720	0	Standard
⌊	**Mn**	**55**	**0.002**	ug/L	0.003	136	544	620	13	Standard
⌈>	**Ge**	**72**		ug/L			46611	46321	0	KED
|	**Cu**	**63**	**-0.001**	ug/L	0.001	89	60	55	9	KED
|	**Cu**	**65**	**0.001**	ug/L	0.003	529	30	31	24	KED
|	**Zn**	**66**	**0.020**	ug/L	0.019	94	33	45	25	KED
|	**Zn**	**67**	**0.024**	ug/L	0.038	155	4	6	56	KED
⌊	**As**	**75**	**0.005**	ug/L	0.003	60	2	3	25	KED
	Y	**89**		ug/L			391138	390951	2	Standard
	Kr	**83**		ug/L			46	43	15	Standard
⌈>	**In-1**	**115**		ug/L			10762	11091	3	KED
|	**Cd**	**111**	**-0.003**	ug/L	0.008	264	5	4	66	KED
⌊	**Cd**	**114**	**-0.000**	ug/L	0.003	4694	4	4	44	KED
⌈>	**In**	**115**		ug/L			626853	616482	2	Standard
⌊	**Ag**	**107**	**0.003**	ug/L	0.001	50	83	137	19	Standard
⌈>	**Tb**	**159**		ug/L			1475140	1475071	1	Standard
⌊	**Pb**	**208**	**0.002**	ug/L	0.002	87	279	444	34	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0202-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 06:36:45
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			44209	77540	0	Standard
⌈>	**Sc**	**45**		ug/L			782863	813985	1	Standard
|	**Cr**	**52**	**0.290**	ug/L	0.006	2	19712	28284	1	Standard
|	**Cr**	**53**	**0.529**	ug/L	0.021	3	193	1859	4	Standard
|	**Fe**	**54**	**26.684**	ug/L	0.219	0	85331	158356	1	Standard
|	**Fe**	**57**	**26.065**	ug/L	0.452	1	21088	49637	1	Standard
⌊	**Mn**	**55**	**1.335**	ug/L	0.018	1	544	55720	2	Standard
⌈>	**Ge**	**72**		ug/L			46611	46667	1	KED
|	**Cu**	**63**	**30.596**	ug/L	0.395	1	60	143790	0	KED
|	**Cu**	**65**	**30.033**	ug/L	0.340	1	30	72560	1	KED
|	**Zn**	**66**	**88.110**	ug/L	1.258	1	33	55273	0	KED
|	**Zn**	**67**	**79.599**	ug/L	1.399	1	4	8452	2	KED
⌊	**As**	**75**	**0.467**	ug/L	0.017	3	2	158	2	KED
	Y	**89**		ug/L			391138	403660	1	Standard
	Kr	**83**		ug/L			46	38	13	Standard
⌈>	**In-1**	**115**		ug/L			10762	10831	1	KED
|	**Cd**	**111**	**0.098**	ug/L	0.018	18	5	38	17	KED
⌊	**Cd**	**114**	**0.100**	ug/L	0.001	1	4	92	1	KED
⌈>	**In**	**115**		ug/L			626853	646126	4	Standard
⌊	**Ag**	**107**	**0.005**	ug/L	0.000	2	83	200	5	Standard
⌈>	**Tb**	**159**		ug/L			1475140	1523812	1	Standard
⌊	**Pb**	**208**	**0.176**	ug/L	0.004	2	279	16696	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0659-DUP2
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 06:41:17
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			44209	78898	0	Standard
⌈>	**Sc**	**45**		ug/L			782863	809705	2	Standard
|	**Cr**	**52**	**0.263**	ug/L	0.026	9	19712	27400	0	Standard
|	**Cr**	**53**	**0.528**	ug/L	0.007	1	193	1845	1	Standard
|	**Fe**	**54**	**28.589**	ug/L	0.987	3	85331	162428	0	Standard
|	**Fe**	**57**	**28.230**	ug/L	1.442	5	21088	51646	0	Standard
⌊	**Mn**	**55**	**0.431**	ug/L	0.012	2	544	18272	0	Standard
⌈>	**Ge**	**72**		ug/L			46611	46638	0	KED
|	**Cu**	**63**	**31.114**	ug/L	0.660	2	60	146143	1	KED
|	**Cu**	**65**	**31.150**	ug/L	0.281	0	30	75215	1	KED
|	**Zn**	**66**	**91.226**	ug/L	1.173	1	33	57198	1	KED
|	**Zn**	**67**	**81.467**	ug/L	1.665	2	4	8645	2	KED
⌊	**As**	**75**	**0.476**	ug/L	0.040	8	2	161	8	KED
	Y	**89**		ug/L			391138	403410	0	Standard
	Kr	**83**		ug/L			46	54	21	Standard
⌈>	**In-1**	**115**		ug/L			10762	11052	1	KED
|	**Cd**	**111**	**0.119**	ug/L	0.015	12	5	46	11	KED
⌊	**Cd**	**114**	**0.108**	ug/L	0.007	6	4	100	5	KED
⌈>	**In**	**115**		ug/L			626853	640897	4	Standard
⌊	**Ag**	**107**	**0.005**	ug/L	0.001	12	83	184	10	Standard
⌈>	**Tb**	**159**		ug/L			1475140	1531993	1	Standard
⌊	**Pb**	**208**	**0.181**	ug/L	0.005	2	279	17247	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0659-MS2
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 06:46:14
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			44209	74970	1	Standard
>	Sc	45		ug/L			782863	805085	1	Standard
	Cr	52	23.332	ug/L	0.411	1	19712	639995	2	Standard
	Cr	53	24.100	ug/L	0.463	1	193	74902	1	Standard
	Fe	54	27.298	ug/L	0.476	1	85331	158217	2	Standard
	Fe	57	25.076	ug/L	1.354	5	21088	48072	4	Standard
	Mn	55	24.458	ug/L	0.363	1	544	999601	1	Standard
>	Ge	72		ug/L			46611	46588	2	KED
	Cu	63	56.395	ug/L	1.043	1	60	264528	1	KED
	Cu	65	55.785	ug/L	1.237	2	30	134491	0	KED
	Zn	66	166.767	ug/L	2.942	1	33	104406	1	KED
	Zn	67	152.569	ug/L	4.734	3	4	16164	1	KED
	As	75	25.007	ug/L	0.526	2	2	8344	0	KED
	Y	89		ug/L			391138	403261	2	Standard
	Kr	83		ug/L			46	48	8	Standard
>	In-1	115		ug/L			10762	11075	1	KED
	Cd	111	24.689	ug/L	0.358	1	5	8478	1	KED
	Cd	114	24.728	ug/L	0.463	1	4	21933	0	KED
>	In	115		ug/L			626853	638250	1	Standard
	Ag	107	24.944	ug/L	0.288	1	83	522315	1	Standard
>	Tb	159		ug/L			1475140	1520099	0	Standard
	Pb	208	27.568	ug/L	0.218	0	279	2558701	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLI
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 06:50:48
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			44209	44809	1	Standard
⌈>	**Sc**	**45**		ug/L			782863	782630	0	Standard
|	**Cr**	**52**	**0.013**	ug/L	0.020	163	19712	20030	2	Standard
|	**Cr**	**53**	**0.018**	ug/L	0.007	38	193	248	8	Standard
|	**Fe**	**54**	**0.255**	ug/L	0.794	311	85331	85941	2	Standard
|	**Fe**	**57**	**-3.905**	ug/L	0.559	14	21088	17087	2	Standard
⌊	**Mn**	**55**	**0.006**	ug/L	0.000	0	544	773	0	Standard
⌈>	**Ge**	**72**		ug/L			46611	46182	0	KED
|	**Cu**	**63**	**0.149**	ug/L	0.015	10	60	753	8	KED
|	**Cu**	**65**	**0.159**	ug/L	0.009	5	30	409	4	KED
|	**Zn**	**66**	**0.292**	ug/L	0.028	9	33	213	9	KED
|	**Zn**	**67**	**0.254**	ug/L	0.054	21	4	31	18	KED
⌊	**As**	**75**	**0.010**	ug/L	0.001	7	2	5	5	KED
	Y	**89**		ug/L			391138	384735	0	Standard
	Kr	**83**		ug/L			46	48	2	Standard
⌈>	**In-1**	**115**		ug/L			10762	10964	2	KED
|	**Cd**	**111**	**0.009**	ug/L	0.006	71	5	8	29	KED
⌊	**Cd**	**114**	**0.003**	ug/L	0.005	141	4	7	49	KED
⌈>	**In**	**115**		ug/L			626853	627405	3	Standard
⌊	**Ag**	**107**	**0.003**	ug/L	0.000	7	83	147	5	Standard
⌈>	**Tb**	**159**		ug/L			1475140	1489432	0	Standard
⌊	**Pb**	**208**	**0.007**	ug/L	0.000	6	279	899	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0417-01
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 06:55:22
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			44209	90049	1	Standard
>	Sc	45		ug/L			782863	930968	1	Standard
	Cr	52	10.181	ug/L	0.173	1	19712	336099	1	Standard
	Cr	53	10.273	ug/L	0.116	1	193	37055	1	Standard
	Fe	54	12274.710	ug/L	107.332	0	85331	36735660	2	Standard
	Fe	57	12198.321	ug/L	266.193	2	21088	14857906	2	Standard
	Mn	55	132.247	ug/L	0.756	0	544	6247575	1	Standard
>	Ge	72		ug/L			46611	46148	0	KED
	Cu	63	23.228	ug/L	0.446	1	60	107966	1	KED
	Cu	65	22.806	ug/L	0.156	0	30	54496	0	KED
	Zn	66	53.532	ug/L	0.320	0	33	33225	0	KED
	Zn	67	50.558	ug/L	0.997	1	4	5310	2	KED
	As	75	4.882	ug/L	0.060	1	2	1615	1	KED
	Y	89		ug/L			391138	644474	0	Standard
	Kr	83		ug/L			46	103	10	Standard
>	In-1	115		ug/L			10762	10816	0	KED
	Cd	111	0.065	ug/L	0.012	18	5	26	14	KED
	Cd	114	0.075	ug/L	0.004	5	4	70	4	KED
>	In	115		ug/L			626853	610986	1	Standard
	Ag	107	0.151	ug/L	0.005	3	83	3104	4	Standard
>	Tb	159		ug/L			1475140	1530671	0	Standard
	Pb	208	15.568	ug/L	0.172	1	279	1455068	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0396-DUP1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 06:59:55
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			44209	91725	1	Standard
>	Sc	45		ug/L			782863	937039	1	Standard
	Cr	52	11.795	ug/L	0.112	0	19712	388185	1	Standard
	Cr	53	11.842	ug/L	0.061	0	193	42960	0	Standard
	Fe	54	14316.923	ug/L	286.626	2	85331	43103540	1	Standard
	Fe	57	14070.503	ug/L	114.065	0	21088	17246338	0	Standard
	Mn	55	146.047	ug/L	1.923	1	544	6943703	0	Standard
>	Ge	72		ug/L			46611	45776	0	KED
	Cu	63	43.617	ug/L	1.357	3	60	201042	2	KED
	Cu	65	42.890	ug/L	0.705	1	30	101635	1	KED
	Zn	66	59.148	ug/L	0.386	0	33	36413	1	KED
	Zn	67	56.302	ug/L	0.233	0	4	5865	0	KED
	As	75	5.109	ug/L	0.180	3	2	1677	3	KED
	Y	89		ug/L			391138	654981	3	Standard
	Kr	83		ug/L			46	101	15	Standard
>	In-1	115		ug/L			10762	10575	1	KED
	Cd	111	0.101	ug/L	0.017	16	5	38	13	KED
	Cd	114	0.088	ug/L	0.024	27	4	79	27	KED
>	In	115		ug/L			626853	601301	1	Standard
	Ag	107	0.139	ug/L	0.004	2	83	2830	2	Standard
>	Tb	159		ug/L			1475140	1514796	1	Standard
	Pb	208	20.648	ug/L	0.348	1	279	1909564	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0396-MS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 07:04:28
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			44209	88850	1	Standard
>	Sc	45		ug/L			782863	929092	1	Standard
	Cr	52	32.819	ug/L	1.115	3	19712	1028876	1	Standard
	Cr	53	32.105	ug/L	0.253	0	193	115083	1	Standard
	Fe	54	13411.509	ug/L	100.215	0	85331	40049580	2	Standard
	Fe	57	13348.747	ug/L	55.226	0	21088	16225729	2	Standard
	Mn	55	165.524	ug/L	4.294	2	544	7803979	3	Standard
>	Ge	72		ug/L			46611	45779	0	KED
	Cu	63	50.519	ug/L	0.735	1	60	232889	1	KED
	Cu	65	49.305	ug/L	0.605	1	30	116833	0	KED
	Zn	66	136.228	ug/L	2.335	1	33	83831	2	KED
	Zn	67	131.049	ug/L	2.425	1	4	13647	1	KED
	As	75	29.420	ug/L	0.398	1	2	9647	0	KED
	Y	89		ug/L			391138	646574	2	Standard
	Kr	83		ug/L			46	119	20	Standard
>	In-1	115		ug/L			10762	10786	1	KED
	Cd	111	25.393	ug/L	0.610	2	5	8490	0	KED
	Cd	114	24.934	ug/L	0.264	1	4	21541	0	KED
>	In	115		ug/L			626853	615072	3	Standard
	Ag	107	20.474	ug/L	0.145	0	83	413136	2	Standard
>	Tb	159		ug/L			1475140	1519329	1	Standard
	Pb	208	44.113	ug/L	0.731	1	279	4091401	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0396-MSD1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 07:09:00
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			44209	82408	0	Standard
>	Sc	45		ug/L			782863	921389	1	Standard
	Cr	52	30.323	ug/L	0.670	2	19712	944746	1	Standard
	Cr	53	30.043	ug/L	0.462	1	193	106810	1	Standard
	Fe	54	12445.798	ug/L	26.273	0	85331	36862370	1	Standard
	Fe	57	12518.990	ug/L	202.111	1	21088	15092457	2	Standard
	Mn	55	153.448	ug/L	1.729	1	544	7173969	1	Standard
>	Ge	72		ug/L			46611	45841	1	KED
	Cu	63	48.901	ug/L	1.091	2	60	225690	1	KED
	Cu	65	48.716	ug/L	0.824	1	30	115583	0	KED
	Zn	66	134.433	ug/L	1.308	0	33	82828	1	KED
	Zn	67	126.404	ug/L	1.693	1	4	13181	0	KED
	As	75	28.693	ug/L	0.321	1	2	9421	0	KED
	Y	89		ug/L			391138	618564	3	Standard
	Kr	83		ug/L			46	117	12	Standard
>	In-1	115		ug/L			10762	10746	0	KED
	Cd	111	25.081	ug/L	0.335	1	5	8356	0	KED
	Cd	114	24.466	ug/L	0.394	1	4	21057	1	KED
>	In	115		ug/L			626853	617431	2	Standard
	Ag	107	23.871	ug/L	0.593	2	83	483387	0	Standard
>	Tb	159		ug/L			1475140	1518274	0	Standard
	Pb	208	42.138	ug/L	0.344	0	279	3906166	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0396-PS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 07:13:33
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			44209	92548	2	Standard
⌈>	**Sc**	**45**		ug/L			782863	929120	2	Standard
|	**Cr**	**52**	**30.703**	ug/L	0.270	0	19712	964396	2	Standard
|	**Cr**	**53**	**30.923**	ug/L	0.679	2	193	110826	0	Standard
|	**Fe**	**54**	**12399.211**	ug/L	168.579	1	85331	37026508	1	Standard
|	**Fe**	**57**	**12252.104**	ug/L	256.637	2	21088	14893325	2	Standard
⌊	**Mn**	**55**	**155.348**	ug/L	2.260	1	544	7323007	1	Standard
⌈>	**Ge**	**72**		ug/L			46611	45978	1	KED
|	**Cu**	**63**	**50.027**	ug/L	0.705	1	60	231581	0	KED
|	**Cu**	**65**	**48.386**	ug/L	0.616	1	30	115147	0	KED
|	**Zn**	**66**	**134.274**	ug/L	1.766	1	33	82971	0	KED
|	**Zn**	**67**	**125.284**	ug/L	3.330	2	4	13101	0	KED
⌊	**As**	**75**	**29.737**	ug/L	0.451	1	2	9793	1	KED
	Y	**89**		ug/L			391138	652105	3	Standard
	Kr	**83**		ug/L			46	102	11	Standard
⌈>	**In-1**	**115**		ug/L			10762	10670	1	KED
|	**Cd**	**111**	**25.362**	ug/L	0.265	1	5	8390	1	KED
⌊	**Cd**	**114**	**25.575**	ug/L	0.325	1	4	21857	1	KED
⌈>	**In**	**115**		ug/L			626853	625891	2	Standard
⌊	**Ag**	**107**	**25.057**	ug/L	0.612	2	83	514454	2	Standard
⌈>	**Tb**	**159**		ug/L			1475140	1533450	0	Standard
⌊	**Pb**	**208**	**43.882**	ug/L	0.316	0	279	4108573	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLJ
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 07:18:07
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			44209	45644	1	Standard
⌈>	**Sc**	**45**		ug/L			782863	778438	1	Standard
|	**Cr**	**52**	**-0.014**	ug/L	0.004	29	19712	19253	1	Standard
|	**Cr**	**53**	**-0.013**	ug/L	0.005	38	193	153	8	Standard
|	**Fe**	**54**	**0.761**	ug/L	0.221	29	85331	86742	1	Standard
|	**Fe**	**57**	**0.476**	ug/L	0.638	133	21088	21457	4	Standard
⌊	**Mn**	**55**	**0.006**	ug/L	0.001	10	544	778	4	Standard
⌈>	**Ge**	**72**		ug/L			46611	45609	1	KED
|	**Cu**	**63**	**0.183**	ug/L	0.060	32	60	902	32	KED
|	**Cu**	**65**	**0.190**	ug/L	0.061	32	30	480	32	KED
|	**Zn**	**66**	**0.349**	ug/L	0.154	44	33	246	40	KED
|	**Zn**	**67**	**0.343**	ug/L	0.160	46	4	40	42	KED
⌊	**As**	**75**	**0.030**	ug/L	0.048	161	2	12	132	KED
	Y	**89**		ug/L			391138	383408	2	Standard
	Kr	**83**		ug/L			46	50	9	Standard
⌈>	**In-1**	**115**		ug/L			10762	10756	0	KED
|	**Cd**	**111**	**-0.009**	ug/L	0.004	51	5	2	65	KED
⌊	**Cd**	**114**	**0.003**	ug/L	0.002	80	4	7	27	KED
⌈>	**In**	**115**		ug/L			626853	612630	1	Standard
⌊	**Ag**	**107**	**0.003**	ug/L	0.000	6	83	149	1	Standard
⌈>	**Tb**	**159**		ug/L			1475140	1459579	0	Standard
⌊	**Pb**	**208**	**0.006**	ug/L	0.001	8	279	783	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVI
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 07:22:40
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			44209	45497	1	Standard
⌈>	**Sc**	**45**		ug/L			782863	802285	1	Standard
|	**Cr**	**52**	**46.981**	ug/L	0.595	1	19712	1263500	1	Standard
|	**Cr**	**53**	**46.976**	ug/L	0.627	1	193	145299	0	Standard
|	**Fe**	**54**	**4955.094**	ug/L	20.884	0	85331	12831624	1	Standard
|	**Fe**	**57**	**4950.044**	ug/L	53.932	1	21088	5209407	2	Standard
⌊	**Mn**	**55**	**47.708**	ug/L	0.161	0	544	1942700	2	Standard
⌈>	**Ge**	**72**		ug/L			46611	45258	2	KED
|	**Cu**	**63**	**52.829**	ug/L	0.771	1	60	240760	2	KED
|	**Cu**	**65**	**52.264**	ug/L	0.516	0	30	122424	1	KED
|	**Zn**	**66**	**52.120**	ug/L	1.127	2	33	31717	0	KED
|	**Zn**	**67**	**52.430**	ug/L	2.373	4	4	5397	2	KED
⌊	**As**	**75**	**50.312**	ug/L	0.504	1	2	16308	1	KED
	Y	**89**		ug/L			391138	388132	1	Standard
	Kr	**83**		ug/L			46	48	23	Standard
⌈>	**In-1**	**115**		ug/L			10762	10847	1	KED
|	**Cd**	**111**	**50.207**	ug/L	0.800	1	5	16879	0	KED
⌊	**Cd**	**114**	**49.668**	ug/L	0.681	1	4	43153	2	KED
⌈>	**In**	**115**		ug/L			626853	617028	2	Standard
⌊	**Ag**	**107**	**49.780**	ug/L	1.420	2	83	1007254	0	Standard
⌈>	**Tb**	**159**		ug/L			1475140	1517301	1	Standard
⌊	**Pb**	**208**	**53.812**	ug/L	0.261	0	279	4985043	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBI
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 07:29:57
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			44209	44736	0	Standard
⌈>	**Sc**	**45**		ug/L			782863	788946	2	Standard
|	**Cr**	**52**	**-0.017**	ug/L	0.012	68	19712	19411	1	Standard
|	**Cr**	**53**	**-0.018**	ug/L	0.001	7	193	139	1	Standard
|	**Fe**	**54**	**0.168**	ug/L	0.771	459	85331	86414	2	Standard
|	**Fe**	**57**	**0.380**	ug/L	0.395	104	21088	21639	1	Standard
⌊	**Mn**	**55**	**0.001**	ug/L	0.000	37	544	584	3	Standard
⌈>	**Ge**	**72**		ug/L			46611	47009	0	KED
|	**Cu**	**63**	**0.007**	ug/L	0.016	227	60	93	78	KED
|	**Cu**	**65**	**0.011**	ug/L	0.017	147	30	58	69	KED
|	**Zn**	**66**	**0.035**	ug/L	0.030	85	33	55	33	KED
|	**Zn**	**67**	**0.047**	ug/L	0.001	1	4	9	0	KED
⌊	**As**	**75**	**0.006**	ug/L	0.006	103	2	4	48	KED
	Y	**89**		ug/L			391138	390421	0	Standard
	Kr	**83**		ug/L			46	37	2	Standard
⌈>	**In-1**	**115**		ug/L			10762	11037	1	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.003	137	5	4	24	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.002	123	4	3	50	KED
⌈>	**In**	**115**		ug/L			626853	626706	2	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.001	44	83	118	11	Standard
⌈>	**Tb**	**159**		ug/L			1475140	1459379	0	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.001	113	279	331	18	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0262-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 07:34:31
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			44209	78208	1	Standard
⌈>	Sc	45		ug/L			782863	940884	1	Standard
|	Cr	52	0.081	ug/L	0.006	7	19712	26211	0	Standard
|	Cr	53	1.224	ug/L	0.023	1	193	4668	2	Standard
|	Fe	54	206.699	ug/L	2.391	1	85331	726037	1	Standard
|	Fe	57	253.858	ug/L	1.932	0	21088	337349	1	Standard
⌊	Mn	55	186.776	ug/L	0.613	0	544	8917424	1	Standard
⌈>	Ge	72		ug/L			46611	42892	0	KED
|	Cu	63	0.530	ug/L	0.014	2	60	2343	3	KED
|	Cu	65	0.533	ug/L	0.023	4	30	1210	4	KED
|	Zn	66	5.019	ug/L	0.115	2	33	2922	2	KED
|	Zn	67	5.888	ug/L	0.067	1	4	578	0	KED
⌊	As	75	0.592	ug/L	0.043	7	2	183	6	KED
	Y	89		ug/L			391138	388659	0	Standard
	Kr	83		ug/L			46	62	8	Standard
⌈>	In-1	115		ug/L			10762	10062	3	KED
|	Cd	111	0.020	ug/L	0.008	40	5	11	26	KED
⌊	Cd	114	0.019	ug/L	0.012	62	4	20	49	KED
⌈>	In	115		ug/L			626853	600558	1	Standard
⌊	Ag	107	0.002	ug/L	0.001	30	83	112	7	Standard
⌈>	Tb	159		ug/L			1475140	1478863	1	Standard
⌊	Pb	208	0.034	ug/L	0.002	4	279	3340	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0717-DUP3
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 07:39:04
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			44209	76290	1	Standard
⌈>	Sc	45		ug/L			782863	923572	1	Standard
|	Cr	52	0.015	ug/L	0.015	96	19712	23724	2	Standard
|	Cr	53	1.164	ug/L	0.018	1	193	4367	2	Standard
|	Fe	54	197.293	ug/L	2.685	1	85331	684784	1	Standard
|	Fe	57	246.472	ug/L	6.066	2	21088	322215	2	Standard
⌊	Mn	55	181.486	ug/L	4.444	2	544	8505315	2	Standard
⌈>	Ge	72		ug/L			46611	43203	0	KED
|	Cu	63	0.466	ug/L	0.010	2	60	2082	1	KED
|	Cu	65	0.490	ug/L	0.024	4	30	1123	4	KED
|	Zn	66	2.605	ug/L	0.144	5	33	1542	5	KED
|	Zn	67	3.564	ug/L	0.136	3	4	354	2	KED
⌊	As	75	0.561	ug/L	0.017	3	2	175	2	KED
	Y	89		ug/L			391138	389960	2	Standard
	Kr	83		ug/L			46	76	15	Standard
⌈>	In-1	115		ug/L			10762	9934	1	KED
|	Cd	111	0.025	ug/L	0.009	35	5	12	20	KED
⌊	Cd	114	0.019	ug/L	0.002	10	4	19	6	KED
⌈>	In	115		ug/L			626853	602081	2	Standard
⌊	Ag	107	0.001	ug/L	0.001	48	83	102	10	Standard
⌈>	Tb	159		ug/L			1475140	1456266	1	Standard
⌊	Pb	208	0.027	ug/L	0.001	2	279	2634	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0717-MS3
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 07:44:01
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			44209	73767	2	Standard
>	Sc	45		ug/L			782863	912240	1	Standard
	Cr	52	19.897	ug/L	0.524	2	19712	621694	2	Standard
	Cr	53	20.789	ug/L	0.240	1	193	73246	0	Standard
	Fe	54	4310.584	ug/L	52.325	1	85331	12705402	1	Standard
	Fe	57	4304.385	ug/L	62.530	1	21088	5153703	1	Standard
	Mn STL	55	202.995	ug/L	3.715	1	544	9395947	1	Standard
>	Ge	72		ug/L			46611	41140	0	KED
	Cu	63	27.696	ug/L	0.215	0	60	114761	1	KED
	Cu	65	27.289	ug/L	0.408	1	30	58125	1	KED
	Zn	66	84.566	ug/L	1.396	1	33	46771	1	KED
	Zn	67	80.150	ug/L	0.865	1	4	7502	0	KED
	As	75	27.203	ug/L	0.152	0	2	8017	0	KED
	Y	89		ug/L			391138	385084	2	Standard
	Kr	83		ug/L			46	100	15	Standard
>	In-1	115		ug/L			10762	9733	1	KED
	Cd	111	26.047	ug/L	0.304	1	5	7859	0	KED
	Cd	114	25.821	ug/L	0.294	1	4	20129	0	KED
>	In	115		ug/L			626853	575626	1	Standard
	Ag	107	25.011	ug/L	0.375	1	83	472296	0	Standard
>	Tb	159		ug/L			1475140	1462366	0	Standard
	Pb	208	27.415	ug/L	0.192	0	279	2447928	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLK
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 07:48:34
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			44209	44067	1	Standard
⌈>	**Sc**	**45**		ug/L			782863	755560	3	Standard
|	**Cr**	**52**	**0.013**	ug/L	0.017	134	19712	19331	1	Standard
|	**Cr**	**53**	**0.045**	ug/L	0.004	10	193	316	2	Standard
|	**Fe**	**54**	**0.374**	ug/L	0.821	219	85331	83219	0	Standard
|	**Fe**	**57**	**-3.641**	ug/L	0.682	18	21088	16751	3	Standard
⌊	**Mn**	**55**	**0.011**	ug/L	0.001	10	544	931	5	Standard
⌈>	**Ge**	**72**		ug/L			46611	44382	0	KED
|	**Cu**	**63**	**0.172**	ug/L	0.028	16	60	824	14	KED
|	**Cu**	**65**	**0.184**	ug/L	0.036	19	30	452	17	KED
|	**Zn**	**66**	**0.305**	ug/L	0.063	20	33	213	17	KED
|	**Zn**	**67**	**0.304**	ug/L	0.128	41	4	34	36	KED
⌊	**As**	**75**	**0.022**	ug/L	0.026	117	2	9	89	KED
	Y	**89**		ug/L			391138	376709	3	Standard
	Kr	**83**		ug/L			46	46	11	Standard
⌈>	**In-1**	**115**		ug/L			10762	10521	2	KED
|	**Cd**	**111**	**0.001**	ug/L	0.005	341	5	5	26	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.001	49	4	6	15	KED
⌈>	**In**	**115**		ug/L			626853	620911	1	Standard
⌊	**Ag**	**107**	**0.003**	ug/L	0.000	6	83	134	4	Standard
⌈>	**Tb**	**159**		ug/L			1475140	1471260	0	Standard
⌊	**Pb**	**208**	**0.006**	ug/L	0.001	10	279	808	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0419-01
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 07:53:08
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			44209	86321	0	Standard
>	Sc	45		ug/L			782863	922068	2	Standard
	Cr	52	11.488	ug/L	0.177	1	19712	372598	1	Standard
	Cr	53	11.529	ug/L	0.166	1	193	41153	1	Standard
	Fe	54	12556.364	ug/L	56.391	0	85331	37218560	2	Standard
	Fe	57	12388.224	ug/L	220.811	1	21088	14948811	3	Standard
	Mn	55	208.452	ug/L	2.043	0	544	9751543	1	Standard
>	Ge	72		ug/L			46611	45717	1	KED
	Cu	63	38.643	ug/L	0.692	1	60	177880	0	KED
	Cu	65	38.107	ug/L	0.866	2	30	90168	0	KED
	Zn	66	180.958	ug/L	3.939	2	33	111167	1	KED
	Zn	67	165.782	ug/L	5.369	3	4	17237	2	KED
	As	75	11.461	ug/L	0.243	2	2	3754	0	KED
	Y	89		ug/L			391138	638311	3	Standard
	Kr	83		ug/L			46	122	11	Standard
>	In-1	115		ug/L			10762	10745	0	KED
	Cd	111	0.128	ug/L	0.027	21	5	47	18	KED
	Cd	114	0.153	ug/L	0.019	12	4	136	12	KED
>	In	115		ug/L			626853	630346	1	Standard
	Ag	107	0.108	ug/L	0.005	4	83	2318	3	Standard
>	Tb	159		ug/L			1475140	1512215	1	Standard
	Pb	208	19.625	ug/L	0.204	1	279	1811994	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0452-DUP1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 07:57:41
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			44209	85823	2	Standard
>	Sc	45		ug/L			782863	904541	2	Standard
	Cr	52	25.543	ug/L	0.216	0	19712	785014	2	Standard
	Cr	53	25.658	ug/L	0.076	0	193	89589	1	Standard
	Fe	54	14820.033	ug/L	267.454	1	85331	43064722	1	Standard
	Fe	57	14726.806	ug/L	87.408	0	21088	17424273	2	Standard
	Mn	55	185.979	ug/L	1.497	0	544	8536214	2	Standard
>	Ge	72		ug/L			46611	44578	1	KED
	Cu	63	48.963	ug/L	0.693	1	60	219757	0	KED
	Cu	65	48.513	ug/L	0.857	1	30	111924	0	KED
	Zn	66	177.302	ug/L	2.982	1	33	106212	0	KED
	Zn	67	163.623	ug/L	4.679	2	4	16588	1	KED
	As	75	13.589	ug/L	0.171	1	2	4340	1	KED
	Y	89		ug/L			391138	616917	2	Standard
	Kr	83		ug/L			46	105	13	Standard
>	In-1	115		ug/L			10762	10862	0	KED
	Cd	111	0.154	ug/L	0.035	22	5	56	20	KED
	Cd	114	0.131	ug/L	0.026	20	4	119	19	KED
>	In	115		ug/L			626853	633092	1	Standard
	Ag	107	0.108	ug/L	0.004	3	83	2328	4	Standard
>	Tb	159		ug/L			1475140	1498304	1	Standard
	Pb	208	18.997	ug/L	0.558	2	279	1737406	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0452-MS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 08:02:14
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			44209	83051	2	Standard
>	Sc	45		ug/L			782863	890921	3	Standard
	Cr	52	39.415	ug/L	0.456	1	19712	1180614	1	Standard
	Cr	53	39.313	ug/L	0.499	1	193	135058	2	Standard
	Fe	54	18376.517	ug/L	395.701	2	85331	52574933	3	Standard
	Fe	57	18344.085	ug/L	215.296	1	21088	21368481	2	Standard
	Mn	55	231.010	ug/L	4.707	2	544	10439944	1	Standard
>	Ge	72		ug/L			46611	45065	0	KED
	Cu	63	92.583	ug/L	0.716	0	60	420081	0	KED
	Cu	65	91.049	ug/L	0.803	0	30	212368	0	KED
	Zn	66	277.907	ug/L	1.013	0	33	168310	0	KED
	Zn	67	259.386	ug/L	4.359	1	4	26588	1	KED
	As	75	39.273	ug/L	0.197	0	2	12678	0	KED
	Y	89		ug/L			391138	605034	2	Standard
	Kr	83		ug/L			46	114	10	Standard
>	In-1	115		ug/L			10762	10765	0	KED
	Cd	111	25.018	ug/L	0.091	0	5	8351	1	KED
	Cd	114	24.925	ug/L	0.248	0	4	21494	1	KED
>	In	115		ug/L			626853	635734	3	Standard
	Ag	107	24.136	ug/L	0.353	1	83	503282	2	Standard
>	Tb	159		ug/L			1475140	1499336	0	Standard
	Pb	208	51.079	ug/L	0.006	0	279	4675977	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0452-MSD1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 08:06:47
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			44209	79431	1	Standard
>	Sc	45		ug/L			782863	912358	2	Standard
	Cr	52	32.743	ug/L	0.229	0	19712	1008351	1	Standard
	Cr	53	32.954	ug/L	0.878	2	193	115964	1	Standard
	Fe	54	13638.083	ug/L	341.307	2	85331	39977565	1	Standard
	Fe	57	13504.503	ug/L	303.741	2	21088	16116100	2	Standard
	Mn	55	225.742	ug/L	6.373	2	544	10446459	0	Standard
>	Ge	72		ug/L			46611	44448	1	KED
	Cu	63	69.173	ug/L	1.236	1	60	309594	2	KED
	Cu	65	67.275	ug/L	0.436	0	30	154782	1	KED
	Zn	66	301.876	ug/L	2.148	0	33	180307	0	KED
	Zn	67	279.608	ug/L	3.798	1	4	28272	2	KED
	As	75	46.204	ug/L	0.172	0	2	14710	0	KED
	Y	89		ug/L			391138	658505	2	Standard
	Kr	83		ug/L			46	108	9	Standard
>	In-1	115		ug/L			10762	10772	1	KED
	Cd	111	24.734	ug/L	0.636	2	5	8258	1	KED
	Cd	114	24.479	ug/L	0.203	0	4	21123	2	KED
>	In	115		ug/L			626853	627191	2	Standard
	Ag	107	23.987	ug/L	0.660	2	83	493390	1	Standard
>	Tb	159		ug/L			1475140	1502909	0	Standard
	Pb	208	54.281	ug/L	0.556	1	279	4980648	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0452-PS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 08:11:20
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			44209	87816	1	Standard
⌈>	**Sc**	**45**		ug/L			782863	936205	1	Standard
|	**Cr**	**52**	**31.890**	ug/L	0.358	1	19712	1008455	1	Standard
|	**Cr**	**53**	**32.163**	ug/L	0.203	0	193	116173	0	Standard
|	**Fe**	**54**	**12569.347**	ug/L	335.076	2	85331	37827094	3	Standard
|	**Fe**	**57**	**12264.960**	ug/L	59.858	0	21088	15024179	1	Standard
⌊	**Mn**	**55**	**228.174**	ug/L	3.540	1	544	10840138	2	Standard
⌈>	**Ge**	**72**		ug/L			46611	45297	0	KED
|	**Cu**	**63**	**65.414**	ug/L	1.274	1	60	298336	1	KED
|	**Cu**	**65**	**65.022**	ug/L	1.336	2	30	152437	1	KED
|	**Zn**	**66**	**257.735**	ug/L	3.580	1	33	156885	0	KED
|	**Zn**	**67**	**236.625**	ug/L	4.216	1	4	24379	1	KED
⌊	**As**	**75**	**35.715**	ug/L	0.472	1	2	11588	0	KED
	Y	**89**		ug/L			391138	657842	0	Standard
	Kr	**83**		ug/L			46	114	5	Standard
⌈>	**In-1**	**115**		ug/L			10762	10978	1	KED
|	**Cd**	**111**	**24.704**	ug/L	0.306	1	5	8408	1	KED
⌊	**Cd**	**114**	**24.875**	ug/L	0.124	0	4	21874	0	KED
⌈>	**In**	**115**		ug/L			626853	637898	1	Standard
⌊	**Ag**	**107**	**25.270**	ug/L	0.058	0	83	528856	1	Standard
⌈>	**Tb**	**159**		ug/L			1475140	1527328	0	Standard
⌊	**Pb**	**208**	**47.730**	ug/L	0.527	1	279	4450781	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLL
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 08:15:53
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			44209	45690	1	Standard
⌈>	**Sc**	**45**		ug/L			782863	776655	0	Standard
|	**Cr**	**52**	**-0.045**	ug/L	0.014	31	19712	18412	1	Standard
|	**Cr**	**53**	**-0.005**	ug/L	0.006	119	193	176	9	Standard
|	**Fe**	**54**	**1.526**	ug/L	1.600	104	85331	88458	4	Standard
|	**Fe**	**57**	**2.547**	ug/L	1.033	40	21088	23506	4	Standard
⌊	**Mn**	**55**	**0.021**	ug/L	0.021	97	544	1385	59	Standard
⌈>	**Ge**	**72**		ug/L			46611	45722	2	KED
|	**Cu**	**63**	**0.160**	ug/L	0.005	3	60	794	3	KED
|	**Cu**	**65**	**0.148**	ug/L	0.003	2	30	379	3	KED
|	**Zn**	**66**	**0.286**	ug/L	0.028	9	33	208	10	KED
|	**Zn**	**67**	**0.208**	ug/L	0.070	33	4	26	29	KED
⌊	**As**	**75**	**0.007**	ug/L	0.004	56	2	4	29	KED
	Y	**89**		ug/L			391138	389877	2	Standard
	Kr	**83**		ug/L			46	43	10	Standard
⌈>	**In-1**	**115**		ug/L			10762	10718	2	KED
|	**Cd**	**111**	**-0.007**	ug/L	0.005	75	5	2	57	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.001	55	4	2	44	KED
⌈>	**In**	**115**		ug/L			626853	633154	2	Standard
⌊	**Ag**	**107**	**0.005**	ug/L	0.003	72	83	177	36	Standard
⌈>	**Tb**	**159**		ug/L			1475140	1490532	1	Standard
⌊	**Pb**	**208**	**0.009**	ug/L	0.005	53	279	1091	40	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVJ
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 08:20:27
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			44209	45964	2	Standard
>	**Sc**	**45**		ug/L			782863	791124	2	Standard
	Cr	**52**	**47.239**	ug/L	1.325	2	19712	1252252	0	Standard
	Cr	**53**	**47.505**	ug/L	1.226	2	193	144854	0	Standard
	Fe	**54**	**4929.345**	ug/L	123.595	2	85331	12583217	1	Standard
	Fe	**57**	**4906.690**	ug/L	61.872	1	21088	5090866	1	Standard
	Mn	**55**	**48.385**	ug/L	1.458	3	544	1942185	2	Standard
>	**Ge**	**72**		ug/L			46611	45985	0	KED
	Cu	**63**	**52.248**	ug/L	0.526	1	60	241940	1	KED
	Cu	**65**	**51.448**	ug/L	0.267	0	30	122469	1	KED
	Zn	**66**	**51.599**	ug/L	0.428	0	33	31913	0	KED
	Zn	**67**	**51.141**	ug/L	0.834	1	4	5352	1	KED
	As	**75**	**49.587**	ug/L	0.867	1	2	16332	1	KED
	Y	**89**		ug/L			391138	394472	1	Standard
	Kr	**83**		ug/L			46	49	7	Standard
>	**In-1**	**115**		ug/L			10762	10556	1	KED
	Cd	**111**	**51.000**	ug/L	1.255	2	5	16682	1	KED
	Cd	**114**	**51.192**	ug/L	0.639	1	4	43280	2	KED
>	**In**	**115**		ug/L			626853	618363	0	Standard
	Ag	**107**	**51.661**	ug/L	0.651	1	83	1048054	1	Standard
>	**Tb**	**159**		ug/L			1475140	1519479	1	Standard
	Pb	**208**	**54.584**	ug/L	0.779	1	279	5063309	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBJ
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 08:27:43
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			44209	44698	2	Standard
⌈>	**Sc**	**45**		ug/L			782863	785067	0	Standard
|	**Cr**	**52**	**-0.023**	ug/L	0.020	85	19712	19170	3	Standard
|	**Cr**	**53**	**-0.016**	ug/L	0.001	5	193	146	1	Standard
|	**Fe**	**54**	**0.324**	ug/L	0.484	149	85331	86386	1	Standard
|	**Fe**	**57**	**0.523**	ug/L	0.789	150	21088	21685	4	Standard
⌊	**Mn**	**55**	**0.004**	ug/L	0.004	117	544	692	24	Standard
⌈>	**Ge**	**72**		ug/L			46611	45993	1	KED
|	**Cu**	**63**	**-0.001**	ug/L	0.002	139	60	53	16	KED
|	**Cu**	**65**	**-0.000**	ug/L	0.001	349	30	29	9	KED
|	**Zn**	**66**	**0.016**	ug/L	0.018	111	33	42	25	KED
|	**Zn**	**67**	**0.025**	ug/L	0.042	169	4	6	62	KED
⌊	**As**	**75**	**0.006**	ug/L	0.002	29	2	4	13	KED
	Y	**89**		ug/L			391138	386613	1	Standard
	Kr	**83**		ug/L			46	59	14	Standard
⌈>	**In-1**	**115**		ug/L			10762	10882	1	KED
|	**Cd**	**111**	**-0.006**	ug/L	0.002	29	5	3	17	KED
⌊	**Cd**	**114**	**0.003**	ug/L	0.004	133	4	7	42	KED
⌈>	**In**	**115**		ug/L			626853	617181	2	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.001	43	83	122	13	Standard
⌈>	**Tb**	**159**		ug/L			1475140	1464885	0	Standard
⌊	**Pb**	**208**	**0.002**	ug/L	0.002	110	279	452	42	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0375-02
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 08:32:16
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			44209	78092	0	Standard
>	Sc	45		ug/L			782863	822227	1	Standard
	Cr	52	1.138	ug/L	0.051	4	19712	51547	2	Standard
	Cr	53	1.200	ug/L	0.029	2	193	4000	2	Standard
	Fe	54	569.506	ug/L	9.796	1	85331	1590961	3	Standard
	Fe	57	543.820	ug/L	9.733	1	21088	606224	2	Standard
	Mn	55	94.855	ug/L	2.012	2	544	3957541	2	Standard
>	Ge	72		ug/L			46611	45881	0	KED
	Cu	63	2.508	ug/L	0.057	2	60	11642	1	KED
	Cu	65	2.551	ug/L	0.036	1	30	6085	0	KED
	Zn	66	40.141	ug/L	0.597	1	33	24776	0	KED
	Zn	67	38.753	ug/L	1.420	3	4	4048	3	KED
	As	75	0.556	ug/L	0.022	4	2	184	3	KED
	Y	89		ug/L			391138	404034	0	Standard
	Kr	83		ug/L			46	46	9	Standard
>	In-1	115		ug/L			10762	10853	1	KED
	Cd	111	0.059	ug/L	0.015	24	5	24	17	KED
	Cd	114	0.062	ug/L	0.011	17	4	59	14	KED
>	In	115		ug/L			626853	643451	1	Standard
	Ag	107	0.005	ug/L	0.002	38	83	194	22	Standard
>	Tb	159		ug/L			1475140	1520929	1	Standard
	Pb	208	0.476	ug/L	0.012	2	279	44517	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0018-DUP1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 08:36:48
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			44209	76775	1	Standard
>	Sc	45		ug/L			782863	813826	2	Standard
	Cr	52	1.089	ug/L	0.042	3	19712	49715	1	Standard
	Cr	53	1.133	ug/L	0.008	0	193	3750	2	Standard
	Fe	54	552.830	ug/L	3.862	0	85331	1530859	2	Standard
	Fe	57	523.409	ug/L	0.452	0	21088	578323	2	Standard
	Mn	55	89.542	ug/L	2.477	2	544	3696160	0	Standard
>	Ge	72		ug/L			46611	46271	1	KED
	Cu	63	2.390	ug/L	0.037	1	60	11190	1	KED
	Cu	65	2.396	ug/L	0.015	0	30	5766	1	KED
	Zn	66	37.516	ug/L	0.046	0	33	23356	1	KED
	Zn	67	35.393	ug/L	1.148	3	4	3728	2	KED
	As	75	0.545	ug/L	0.024	4	2	182	3	KED
	Y	89		ug/L			391138	406147	2	Standard
	Kr	83		ug/L			46	48	30	Standard
>	In-1	115		ug/L			10762	10639	1	KED
	Cd	111	0.050	ug/L	0.004	8	5	21	6	KED
	Cd	114	0.045	ug/L	0.005	11	4	43	10	KED
>	In	115		ug/L			626853	641956	2	Standard
	Ag	107	0.005	ug/L	0.001	13	83	200	6	Standard
>	Tb	159		ug/L			1475140	1537365	1	Standard
	Pb	208	0.462	ug/L	0.011	2	279	43632	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0018-MS1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 08:41:44
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			44209	73687	1	Standard
>	Sc	45		ug/L			782863	813772	2	Standard
	Cr	52	25.545	ug/L	0.221	0	19712	706276	2	Standard
	Cr	53	25.666	ug/L	0.494	1	193	80603	0	Standard
	Fe	54	5425.496	ug/L	24.041	0	85331	14242691	2	Standard
	Fe	57	5372.611	ug/L	91.155	1	21088	5731416	0	Standard
	Mn	55	114.816	ug/L	1.215	1	544	4741713	2	Standard
>	Ge	72		ug/L			46611	44602	1	KED
	Cu	63	30.397	ug/L	0.283	0	60	136535	0	KED
	Cu	65	29.930	ug/L	0.631	2	30	69103	0	KED
	Zn	66	123.388	ug/L	3.168	2	33	73963	1	KED
	Zn	67	115.922	ug/L	1.942	1	4	11763	2	KED
	As	75	25.919	ug/L	0.471	1	2	8280	0	KED
	Y	89		ug/L			391138	402236	2	Standard
	Kr	83		ug/L			46	54	16	Standard
>	In-1	115		ug/L			10762	10010	2	KED
	Cd	111	26.753	ug/L	0.358	1	5	8305	4	KED
	Cd	114	26.470	ug/L	0.374	1	4	21230	4	KED
>	In	115		ug/L			626853	618785	2	Standard
	Ag	107	26.328	ug/L	0.368	1	83	534463	1	Standard
>	Tb	159		ug/L			1475140	1520052	0	Standard
	Pb	208	28.352	ug/L	0.185	0	279	2631440	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLM
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 08:46:17
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			44209	44470	1	Standard
⌈>	**Sc**	**45**		ug/L			782863	772637	3	Standard
|	**Cr**	**52**	**-0.016**	ug/L	0.027	172	19712	19037	1	Standard
|	**Cr**	**53**	**-0.008**	ug/L	0.005	67	193	166	6	Standard
|	**Fe**	**54**	**0.741**	ug/L	0.394	53	85331	86029	2	Standard
|	**Fe**	**57**	**-4.777**	ug/L	0.300	6	21088	15985	1	Standard
⌊	**Mn**	**55**	**0.009**	ug/L	0.001	9	544	882	6	Standard
⌈>	**Ge**	**72**		ug/L			46611	46269	0	KED
|	**Cu**	**63**	**0.140**	ug/L	0.009	6	60	711	5	KED
|	**Cu**	**65**	**0.148**	ug/L	0.022	14	30	383	13	KED
|	**Zn**	**66**	**0.223**	ug/L	0.038	17	33	171	13	KED
|	**Zn**	**67**	**0.266**	ug/L	0.053	19	4	32	17	KED
⌊	**As**	**75**	**0.010**	ug/L	0.005	53	2	5	32	KED
	Y	**89**		ug/L			391138	395251	1	Standard
	Kr	**83**		ug/L			46	50	21	Standard
⌈>	**In-1**	**115**		ug/L			10762	10450	1	KED
|	**Cd**	**111**	**-0.007**	ug/L	0.004	59	5	2	57	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.007	335	4	6	88	KED
⌈>	**In**	**115**		ug/L			626853	613885	2	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.001	40	83	128	13	Standard
⌈>	**Tb**	**159**		ug/L			1475140	1480365	2	Standard
⌊	**Pb**	**208**	**0.006**	ug/L	0.000	4	279	843	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0455-01
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 08:50:50
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			44209	95288	1	Standard
>	Sc	45		ug/L			782863	975443	2	Standard
	Cr	52	13.264	ug/L	0.119	0	19712	451316	2	Standard
	Cr	53	13.335	ug/L	0.188	1	193	50317	1	Standard
	Fe	54	14644.290	ug/L	143.430	0	85331	45897594	2	Standard
	Fe	57	14539.469	ug/L	143.499	0	21088	18550414	2	Standard
	Mn	55	140.124	ug/L	2.123	1	544	6934073	1	Standard
>	Ge	72		ug/L			46611	45153	1	KED
	Cu	63	37.300	ug/L	0.427	1	60	169615	1	KED
	Cu	65	37.105	ug/L	0.409	1	30	86738	1	KED
	Zn	66	64.757	ug/L	0.707	1	33	39316	0	KED
	Zn	67	62.449	ug/L	0.139	0	4	6417	1	KED
	As	75	6.926	ug/L	0.106	1	2	2242	2	KED
	Y	89		ug/L			391138	719143	2	Standard
	Kr	83		ug/L			46	113	9	Standard
>	In-1	115		ug/L			10762	10749	0	KED
	Cd	111	0.186	ug/L	0.016	8	5	66	7	KED
	Cd	114	0.165	ug/L	0.022	13	4	147	12	KED
>	In	115		ug/L			626853	614533	2	Standard
	Ag	107	0.207	ug/L	0.004	1	83	4257	1	Standard
>	Tb	159		ug/L			1475140	1503069	1	Standard
	Pb	208	17.413	ug/L	0.179	1	279	1598057	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0504-DUP1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 08:55:22
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			44209	96285	2	Standard
>	Sc	45		ug/L			782863	960899	1	Standard
	Cr	52	17.442	ug/L	0.189	1	19712	577069	1	Standard
	Cr	53	17.210	ug/L	0.313	1	193	63921	2	Standard
	Fe	54	16237.783	ug/L	192.755	1	85331	50129218	2	Standard
	Fe	57	16124.525	ug/L	205.609	1	21088	20266404	2	Standard
	Mn	55	165.814	ug/L	0.841	0	544	8084500	1	Standard
>	Ge	72		ug/L			46611	45455	1	KED
	Cu	63	39.694	ug/L	1.004	2	60	181646	0	KED
	Cu	65	39.122	ug/L	0.992	2	30	92033	1	KED
	Zn	66	69.732	ug/L	1.338	1	33	42611	0	KED
	Zn	67	66.708	ug/L	2.417	3	4	6897	1	KED
	As	75	7.194	ug/L	0.131	1	2	2343	1	KED
	Y	89		ug/L			391138	727460	3	Standard
	Kr	83		ug/L			46	126	4	Standard
>	In-1	115		ug/L			10762	10621	0	KED
	Cd	111	0.211	ug/L	0.031	14	5	74	13	KED
	Cd	114	0.191	ug/L	0.041	21	4	167	20	KED
>	In	115		ug/L			626853	611638	3	Standard
	Ag	107	0.204	ug/L	0.002	1	83	4179	3	Standard
>	Tb	159		ug/L			1475140	1522067	1	Standard
	Pb	208	17.296	ug/L	0.124	0	279	1607454	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0504-MS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 08:59:54
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			44209	85459	1	Standard
>	Sc	45		ug/L			782863	950769	1	Standard
	Cr	52	33.782	ug/L	0.316	0	19712	1083478	1	Standard
	Cr	53	33.172	ug/L	0.157	0	193	121676	0	Standard
	Fe	54	14545.525	ug/L	131.659	0	85331	44439968	1	Standard
	Fe	57	14242.770	ug/L	322.964	2	21088	17716299	3	Standard
	Mn	55	160.895	ug/L	1.259	0	544	7762196	0	Standard
>	Ge	72		ug/L			46611	45538	0	KED
	Cu	63	64.207	ug/L	0.829	1	60	294392	0	KED
	Cu	65	64.123	ug/L	1.407	2	30	151133	1	KED
	Zn	66	149.281	ug/L	1.752	1	33	91366	0	KED
	Zn	67	140.955	ug/L	0.841	0	4	14603	1	KED
	As	75	30.968	ug/L	0.048	0	2	10102	0	KED
	Y	89		ug/L			391138	703098	1	Standard
	Kr	83		ug/L			46	125	9	Standard
>	In-1	115		ug/L			10762	10409	2	KED
	Cd	111	25.896	ug/L	1.010	3	5	8352	1	KED
	Cd	114	25.665	ug/L	0.465	1	4	21393	1	KED
>	In	115		ug/L			626853	606955	3	Standard
	Ag	107	24.930	ug/L	0.516	2	83	496330	3	Standard
>	Tb	159		ug/L			1475140	1523907	1	Standard
	Pb	208	46.457	ug/L	0.684	1	279	4321815	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0504-MSD1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 09:04:26
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			44209	85438	2	Standard
>	Sc	45		ug/L			782863	956897	1	Standard
	Cr	52	34.390	ug/L	0.111	0	19712	1109652	0	Standard
	Cr	53	34.574	ug/L	0.415	1	193	127621	0	Standard
	Fe	54	15235.403	ug/L	281.411	1	85331	46839538	2	Standard
	Fe	57	15211.440	ug/L	164.826	1	21088	19040395	2	Standard
	Mn	55	172.505	ug/L	2.353	1	544	8377030	2	Standard
>	Ge	72		ug/L			46611	45123	0	KED
	Cu	63	66.845	ug/L	0.780	1	60	303701	1	KED
	Cu	65	66.299	ug/L	0.757	1	30	154844	0	KED
	Zn	66	147.340	ug/L	1.712	1	33	89359	1	KED
	Zn	67	139.472	ug/L	1.530	1	4	14317	0	KED
	As	75	30.475	ug/L	0.177	0	2	9850	0	KED
	Y	89		ug/L			391138	722048	3	Standard
	Kr	83		ug/L			46	130	0	Standard
>	In-1	115		ug/L			10762	10360	1	KED
	Cd	111	25.688	ug/L	0.291	1	5	8250	0	KED
	Cd	114	25.402	ug/L	0.436	1	4	21077	0	KED
>	In	115		ug/L			626853	609924	1	Standard
	Ag	107	19.996	ug/L	0.392	1	83	400187	2	Standard
>	Tb	159		ug/L			1475140	1526033	0	Standard
	Pb	208	45.310	ug/L	0.235	0	279	4221737	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0504-PS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 09:08:58
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			44209	97193	2	Standard
>	Sc	45		ug/L			782863	980244	1	Standard
	Cr	52	33.017	ug/L	0.158	0	19712	1092328	1	Standard
	Cr	53	33.024	ug/L	0.156	0	193	124894	1	Standard
	Fe	54	14923.218	ug/L	201.847	1	85331	47004243	2	Standard
	Fe	57	14566.864	ug/L	24.739	0	21088	18678118	1	Standard
	Mn	55	161.712	ug/L	1.924	1	544	8044220	2	Standard
>	Ge	72		ug/L			46611	45085	0	KED
	Cu	63	64.325	ug/L	0.823	1	60	292010	0	KED
	Cu	65	63.679	ug/L	0.450	0	30	148605	0	KED
	Zn	66	143.589	ug/L	0.653	0	33	87014	0	KED
	Zn	67	138.441	ug/L	2.072	1	4	14199	1	KED
	As	75	31.385	ug/L	0.160	0	2	10136	0	KED
	Y	89		ug/L			391138	728627	1	Standard
	Kr	83		ug/L			46	130	10	Standard
>	In-1	115		ug/L			10762	10617	1	KED
	Cd	111	25.614	ug/L	0.671	2	5	8429	0	KED
	Cd	114	25.520	ug/L	0.813	3	4	21695	1	KED
>	In	115		ug/L			626853	624642	2	Standard
	Ag	107	26.013	ug/L	0.772	2	83	532899	2	Standard
>	Tb	159		ug/L			1475140	1519977	0	Standard
	Pb	208	45.918	ug/L	0.686	1	279	4261216	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLN
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 09:13:31
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			44209	46185	1	Standard
⌈>	**Sc**	**45**		ug/L			782863	781681	0	Standard
|	**Cr**	**52**	**-0.037**	ug/L	0.007	19	19712	18718	1	Standard
|	**Cr**	**53**	**-0.007**	ug/L	0.008	117	193	173	13	Standard
|	**Fe**	**54**	**2.284**	ug/L	2.385	104	85331	90934	6	Standard
|	**Fe**	**57**	**4.285**	ug/L	2.060	48	21088	25436	8	Standard
⌊	**Mn**	**55**	**0.034**	ug/L	0.041	119	544	1894	85	Standard
⌈>	**Ge**	**72**		ug/L			46611	45425	1	KED
|	**Cu**	**63**	**0.159**	ug/L	0.004	2	60	786	2	KED
|	**Cu**	**65**	**0.148**	ug/L	0.011	7	30	377	8	KED
|	**Zn**	**66**	**0.252**	ug/L	0.018	7	33	186	4	KED
|	**Zn**	**67**	**0.296**	ug/L	0.040	13	4	34	11	KED
⌊	**As**	**75**	**0.009**	ug/L	0.006	67	2	5	37	KED
	Y	**89**		ug/L			391138	391020	2	Standard
	Kr	**83**		ug/L			46	57	12	Standard
⌈>	**In-1**	**115**		ug/L			10762	10606	0	KED
|	**Cd**	**111**	**-0.004**	ug/L	0.000	1	5	3	0	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.002	308	4	4	50	KED
⌈>	**In**	**115**		ug/L			626853	611894	1	Standard
⌊	**Ag**	**107**	**0.006**	ug/L	0.005	90	83	197	54	Standard
⌈>	**Tb**	**159**		ug/L			1475140	1473542	1	Standard
⌊	**Pb**	**208**	**0.011**	ug/L	0.007	65	279	1241	50	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVK
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 09:18:04
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			44209	46450	1	Standard
>	**Sc**	**45**		ug/L			782863	786514	2	Standard
	Cr	**52**	**47.650**	ug/L	0.904	1	19712	1255992	2	Standard
	Cr	**53**	**46.870**	ug/L	0.107	0	193	142142	2	Standard
	Fe	**54**	**5020.312**	ug/L	13.132	0	85331	12743515	2	Standard
	Fe	**57**	**4990.017**	ug/L	88.920	1	21088	5146352	0	Standard
	Mn	**55**	**48.620**	ug/L	0.047	0	544	1940799	2	Standard
>	**Ge**	**72**		ug/L			46611	45656	1	KED
	Cu	**63**	**52.725**	ug/L	0.713	1	60	242360	0	KED
	Cu	**65**	**52.268**	ug/L	0.682	1	30	123510	0	KED
	Zn	**66**	**51.988**	ug/L	0.367	0	33	31922	1	KED
	Zn	**67**	**51.121**	ug/L	1.762	3	4	5311	2	KED
	As	**75**	**49.807**	ug/L	0.903	1	2	16285	0	KED
	Y	**89**		ug/L			391138	402448	3	Standard
	Kr	**83**		ug/L			46	50	18	Standard
>	**In-1**	**115**		ug/L			10762	10362	0	KED
	Cd	**111**	**52.045**	ug/L	0.180	0	5	16716	0	KED
	Cd	**114**	**51.748**	ug/L	0.079	0	4	42946	0	KED
>	**In**	**115**		ug/L			626853	615543	2	Standard
	Ag	**107**	**50.620**	ug/L	0.465	0	83	1022353	3	Standard
>	**Tb**	**159**		ug/L			1475140	1509062	1	Standard
	Pb	**208**	**54.350**	ug/L	0.582	1	279	5007230	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBK
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 09:25:20
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			44209	45265	3	Standard
⌈>	**Sc**	**45**		ug/L			782863	787425	0	Standard
|	**Cr**	**52**	**-0.024**	ug/L	0.015	63	19712	19198	1	Standard
|	**Cr**	**53**	**-0.020**	ug/L	0.006	27	193	134	13	Standard
|	**Fe**	**54**	**-0.571**	ug/L	0.261	45	85331	84385	1	Standard
|	**Fe**	**57**	**1.003**	ug/L	0.328	32	21088	22244	2	Standard
⌊	**Mn**	**55**	**0.001**	ug/L	0.000	34	544	590	1	Standard
⌈>	**Ge**	**72**		ug/L			46611	45832	2	KED
|	**Cu**	**63**	**0.001**	ug/L	0.000	45	60	64	5	KED
|	**Cu**	**65**	**-0.002**	ug/L	0.003	141	30	25	26	KED
|	**Zn**	**66**	**0.043**	ug/L	0.023	54	33	59	26	KED
|	**Zn**	**67**	**0.056**	ug/L	0.039	69	4	10	39	KED
⌊	**As**	**75**	**0.006**	ug/L	0.002	35	2	4	19	KED
	Y	**89**		ug/L			391138	390346	2	Standard
	Kr	**83**		ug/L			46	43	38	Standard
⌈>	**In-1**	**115**		ug/L			10762	10937	1	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.009	430	5	4	65	KED
⌊	**Cd**	**114**	**0.003**	ug/L	0.006	208	4	7	68	KED
⌈>	**In**	**115**		ug/L			626853	609085	2	Standard
⌊	**Ag**	**107**	**0.003**	ug/L	0.000	9	83	131	2	Standard
⌈>	**Tb**	**159**		ug/L			1475140	1472633	1	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	19	279	318	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0736-04
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 09:29:53
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			44209	86647	2	Standard
⌈>	**Sc**	**45**		ug/L			782863	828287	3	Standard
|	**Cr**	**52**	**0.557**	ug/L	0.004	0	19712	36083	3	Standard
|	**Cr**	**53**	**0.726**	ug/L	0.002	0	193	2521	3	Standard
|	**Fe**	**54**	**-1.443**	ug/L	0.253	17	85331	86455	3	Standard
|	**Fe**	**57**	**236.313**	ug/L	4.852	2	21088	277915	2	Standard
⌊	**Mn**	**55**	**6.151**	ug/L	0.078	1	544	259029	1	Standard
⌈>	**Ge**	**72**		ug/L			46611	38994	0	KED
|	**Cu**	**63**	**0.634**	ug/L	0.009	1	60	2538	1	KED
|	**Cu**	**65**	**0.597**	ug/L	0.029	4	30	1231	4	KED
|	**Zn**	**66**	**1.530**	ug/L	0.047	3	33	829	2	KED
|	**Zn**	**67**	**4.661**	ug/L	0.314	6	4	417	7	KED
⌊	**As**	**75**	**1.565**	ug/L	0.007	0	2	439	0	KED
	Y	**89**		ug/L			391138	380911	2	Standard
	Kr	**83**		ug/L			46	52	9	Standard
⌈>	**In-1**	**115**		ug/L			10762	9336	1	KED
|	**Cd**	**111**	**0.026**	ug/L	0.013	47	5	12	31	KED
⌊	**Cd**	**114**	**0.041**	ug/L	0.015	37	4	34	31	KED
⌈>	**In**	**115**		ug/L			626853	554247	1	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.001	106	83	83	13	Standard
⌈>	**Tb**	**159**		ug/L			1475140	1427218	1	Standard
⌊	**Pb**	**208**	**0.017**	ug/L	0.000	2	279	1719	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0736-06
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 09:34:26
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			44209	85605	2	Standard
⌈>	**Sc**	**45**		ug/L			782863	819619	3	Standard
|	**Cr**	**52**	**0.136**	ug/L	0.026	19	19712	24295	0	Standard
|	**Cr**	**53**	**0.319**	ug/L	0.020	6	193	1206	2	Standard
|	**Fe**	**54**	**0.405**	ug/L	0.528	130	85331	90384	2	Standard
|	**Fe**	**57**	**188.281**	ug/L	3.792	2	21088	223580	1	Standard
⌊	**Mn**	**55**	**0.378**	ug/L	0.007	1	544	16301	2	Standard
⌈>	**Ge**	**72**		ug/L			46611	38239	0	KED
|	**Cu**	**63**	**4.728**	ug/L	0.093	1	60	18247	1	KED
|	**Cu**	**65**	**4.634**	ug/L	0.128	2	30	9194	1	KED
|	**Zn**	**66**	**8.473**	ug/L	0.202	2	33	4379	1	KED
|	**Zn**	**67**	**9.422**	ug/L	0.356	3	4	822	2	KED
⌊	**As**	**75**	**1.014**	ug/L	0.049	4	2	279	3	KED
	Y	**89**		ug/L			391138	382815	4	Standard
	Kr	**83**		ug/L			46	47	4	Standard
⌈>	**In-1**	**115**		ug/L			10762	8899	1	KED
|	**Cd**	**111**	**0.026**	ug/L	0.007	24	5	11	14	KED
⌊	**Cd**	**114**	**0.015**	ug/L	0.003	21	4	14	14	KED
⌈>	**In**	**115**		ug/L			626853	570111	2	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.000	16	83	114	3	Standard
⌈>	**Tb**	**159**		ug/L			1475140	1436009	1	Standard
⌊	**Pb**	**208**	**0.235**	ug/L	0.004	1	279	20878	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0736-08
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 09:38:59
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			44209	78492	2	Standard
⌈>	**Sc**	**45**		ug/L			782863	749261	3	Standard
|	**Cr**	**52**	**0.035**	ug/L	0.011	32	19712	19728	2	Standard
|	**Cr**	**53**	**0.150**	ug/L	0.004	2	193	617	3	Standard
|	**Fe**	**54**	**26.827**	ug/L	1.241	4	85331	146073	3	Standard
|	**Fe**	**57**	**293.657**	ug/L	4.635	1	21088	307640	4	Standard
⌊	**Mn**	**55**	**95.897**	ug/L	0.783	0	544	3645536	2	Standard
⌈>	**Ge**	**72**		ug/L			46611	36644	1	KED
|	**Cu**	**63**	**0.282**	ug/L	0.006	1	60	1087	2	KED
|	**Cu**	**65**	**0.268**	ug/L	0.005	1	30	532	1	KED
|	**Zn**	**66**	**1.575**	ug/L	0.033	2	33	801	2	KED
|	**Zn**	**67**	**2.747**	ug/L	0.028	1	4	232		KED
⌊	**As**	**75**	**0.180**	ug/L	0.004	2	2	49	3	KED
	Y	**89**		ug/L			391138	363448	2	Standard
	Kr	**83**		ug/L			46	59	32	Standard
⌈>	**In-1**	**115**		ug/L			10762	8539	0	KED
|	**Cd**	**111**	**0.023**	ug/L	0.008	36	5	10	21	KED
⌊	**Cd**	**114**	**0.026**	ug/L	0.008	31	4	21	25	KED
⌈>	**In**	**115**		ug/L			626853	539001	1	Standard
⌊	**Ag**	**107**	**0.007**	ug/L	0.012	174	83	196	111	Standard
⌈>	**Tb**	**159**		ug/L			1475140	1393896	2	Standard
⌊	**Pb**	**208**	**0.005**	ug/L	0.000	5	279	728	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0736-10
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 09:43:33
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			44209	82279	4	Standard
>	**Sc**	**45**		ug/L			782863	727851	7	Standard
	Cr	**52**	**0.083**	ug/L	0.057	68	19712	20260	3	Standard
	Cr	**53**	**0.202**	ug/L	0.035	17	193	741	6	Standard
	Fe	**54**	**272.677**	ug/L	23.769	8	85331	713379	4	Standard
	Fe	**57**	**469.269**	ug/L	33.707	7	21088	464452	3	Standard
	Mn	**55**	**77.926**	ug/L	5.352	6	544	2871619	5	Standard
>	**Ge**	**72**		ug/L			46611	36531	1	KED
	Cu	**63**	**0.251**	ug/L	0.012	4	60	972	5	KED
	Cu	**65**	**0.242**	ug/L	0.017	6	30	481	5	KED
	Zn	**66**	**8.154**	ug/L	0.074	0	33	4027	0	KED
	Zn	**67**	**8.632**	ug/L	0.381	4	4	720	4	KED
	As	**75**	**0.557**	ug/L	0.039	7	2	147	7	KED
	Y	**89**		ug/L			391138	356776	10	Standard
	Kr	**83**		ug/L			46	67	11	Standard
>	**In-1**	**115**		ug/L			10762	8207	1	KED
	Cd	**111**	**0.008**	ug/L	0.008	91	5	6	32	KED
	Cd	**114**	**0.005**	ug/L	0.004	94	4	6	42	KED
>	**In**	**115**		ug/L			626853	523601	9	Standard
	Ag	**107**	**0.000**	ug/L	0.002	770	83	74	46	Standard
>	**Tb**	**159**		ug/L			1475140	1357879	9	Standard
	Pb	**208**	**0.029**	ug/L	0.004	13	279	2652	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0736-12
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 09:48:07
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			44209	79251	2	Standard
⌈>	**Sc**	**45**		ug/L			782863	734918	2	Standard
|	**Cr**	**52**	**0.042**	ug/L	0.007	16	19712	19526	2	Standard
|	**Cr**	**53**	**0.151**	ug/L	0.003	1	193	609	1	Standard
|	**Fe**	**54**	**263.442**	ug/L	4.806	1	85331	700580	1	Standard
|	**Fe**	**57**	**462.937**	ug/L	8.289	1	21088	464044	1	Standard
⌊	**Mn**	**55**	**75.152**	ug/L	1.161	1	544	2802062	1	Standard
⌈>	**Ge**	**72**		ug/L			46611	36152	0	KED
|	**Cu**	**63**	**0.140**	ug/L	0.011	7	60	555	7	KED
|	**Cu**	**65**	**0.137**	ug/L	0.014	10	30	279	9	KED
|	**Zn**	**66**	**7.598**	ug/L	0.164	2	33	3716	1	KED
|	**Zn**	**67**	**7.934**	ug/L	0.195	2	4	655	3	KED
⌊	**As**	**75**	**0.608**	ug/L	0.031	5	2	159	4	KED
	Y	**89**		ug/L			391138	362828	0	Standard
	Kr	**83**		ug/L			46	50	13	Standard
⌈>	**In-1**	**115**		ug/L			10762	8440	0	KED
|	**Cd**	**111**	**0.008**	ug/L	0.004	52	5	6	18	KED
⌊	**Cd**	**114**	**0.004**	ug/L	0.004	83	4	6	35	KED
⌈>	**In**	**115**		ug/L			626853	541453	1	Standard
⌊	**Ag**	**107**	**-0.000**	ug/L	0.000	1664	83	71	1	Standard
⌈>	**Tb**	**159**		ug/L			1475140	1383942	0	Standard
⌊	**Pb**	**208**	**0.021**	ug/L	0.001	3	279	2010	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0736-02
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 09:52:41
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			44209	78253	2	Standard
>	**Sc**	**45**		ug/L			782863	784179	4	Standard
	Cr	**52**	**0.444**	ug/L	0.033	7	19712	31215	2	Standard
	Cr	**53**	**0.724**	ug/L	0.006	0	193	2378	4	Standard
	Fe	**54**	**-4.956**	ug/L	0.805	16	85331	72952	2	Standard
	Fe	**57**	**225.738**	ug/L	5.765	2	21088	252158	2	Standard
	Mn	**55**	**0.109**	ug/L	0.005	4	544	4878	1	Standard
>	**Ge**	**72**		ug/L			46611	35645	1	KED
	Cu	**63**	**5.523**	ug/L	0.101	1	60	19862	1	KED
	Cu	**65**	**5.468**	ug/L	0.074	1	30	10109	0	KED
	Zn	**66**	**14.293**	ug/L	0.129	0	33	6870	2	KED
	Zn	**67**	**15.718**	ug/L	0.257	1	4	1277	0	KED
	As	**75**	**1.115**	ug/L	0.045	4	2	286	3	KED
	Y	**89**		ug/L			391138	356076	2	Standard
	Kr	**83**		ug/L			46	55	3	Standard
>	**In-1**	**115**		ug/L			10762	8208	1	KED
	Cd	**111**	**0.078**	ug/L	0.012	14	5	23	12	KED
	Cd	**114**	**0.089**	ug/L	0.022	25	4	62	22	KED
>	**In**	**115**		ug/L			626853	521474	2	Standard
	Ag	**107**	**0.002**	ug/L	0.001	50	83	96	13	Standard
>	**Tb**	**159**		ug/L			1475140	1365773	2	Standard
	Pb	**208**	**1.084**	ug/L	0.018	1	279	90610	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0381-DUP1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 09:57:08
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			44209	81559	2	Standard
⌈>	**Sc**	**45**		ug/L			782863	802458	3	Standard
|	**Cr**	**52**	**0.456**	ug/L	0.030	6	19712	32265	1	Standard
|	**Cr**	**53**	**0.739**	ug/L	0.039	5	193	2478	2	Standard
|	**Fe**	**54**	**-4.663**	ug/L	0.597	12	85331	75446	2	Standard
|	**Fe**	**57**	**231.161**	ug/L	6.166	2	21088	263761	1	Standard
⌊	**Mn**	**55**	**0.107**	ug/L	0.001	0	544	4929	2	Standard
⌈>	**Ge**	**72**		ug/L			46611	35670	0	KED
|	**Cu**	**63**	**5.556**	ug/L	0.005	0	60	19999	0	KED
|	**Cu**	**65**	**5.438**	ug/L	0.108	1	30	10060	1	KED
|	**Zn**	**66**	**14.363**	ug/L	0.534	3	33	6908	3	KED
|	**Zn**	**67**	**16.464**	ug/L	0.262	1	4	1339	1	KED
⌊	**As**	**75**	**1.101**	ug/L	0.057	5	2	283	4	KED
	Y	**89**		ug/L			391138	359224	2	Standard
	Kr	**83**		ug/L			46	48	9	Standard
⌈>	**In-1**	**115**		ug/L			10762	8375	2	KED
|	**Cd**	**111**	**0.080**	ug/L	0.016	19	5	24	17	KED
⌊	**Cd**	**114**	**0.078**	ug/L	0.003	3	4	56	6	KED
⌈>	**In**	**115**		ug/L			626853	531315	2	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.001	81	83	95	21	Standard
⌈>	**Tb**	**159**		ug/L			1475140	1384590	0	Standard
⌊	**Pb**	**208**	**1.087**	ug/L	0.015	1	279	92172	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0381-MS1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 10:01:36
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			44209	82866	3	Standard
>	Sc	45		ug/L			782863	818106	2	Standard
	Cr	52	17.893	ug/L	0.245	1	19712	503396	1	Standard
	Cr	53	18.243	ug/L	0.369	2	193	57659	2	Standard
	Fe	54	-5.704	ug/L	0.342	5	85331	74197	1	Standard
	Fe	57	227.022	ug/L	2.737	1	21088	264690	3	Standard
	Mn	55	18.331	ug/L	0.427	2	544	761178	0	Standard
>	Ge	72		ug/L			46611	35968	2	KED
	Cu	63	31.359	ug/L	0.424	1	60	113579	1	KED
	Cu	65	31.019	ug/L	0.646	2	30	57747	0	KED
	Zn	66	90.459	ug/L	2.910	3	33	43723	1	KED
	Zn	67	86.233	ug/L	2.356	2	4	7055	1	KED
	As	75	26.852	ug/L	0.101	0	2	6918	2	KED
	Y	89		ug/L			391138	370509	3	Standard
	Kr	83		ug/L			46	53	2	Standard
>	In-1	115		ug/L			10762	8164	1	KED
	Cd	111	25.144	ug/L	0.307	1	5	6363	0	KED
	Cd	114	25.072	ug/L	0.442	1	4	16393	0	KED
>	In	115		ug/L			626853	543374	2	Standard
	Ag	107	22.725	ug/L	0.529	2	83	405063	2	Standard
>	Tb	159		ug/L			1475140	1392141	1	Standard
	Pb	208	29.171	ug/L	0.279	0	279	2479436	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0381-MSD1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 10:06:34
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			44209	81278	3	Standard
⌈>	**Sc**	**45**		ug/L			782863	777584	4	Standard
|	**Cr**	**52**	**19.074**	ug/L	1.291	6	19712	507842	2	Standard
|	**Cr**	**53**	**19.320**	ug/L	0.906	4	193	57959	2	Standard
|	**Fe**	**54**	**-3.383**	ug/L	2.755	81	85331	76106	4	Standard
|	**Fe**	**57**	**241.224**	ug/L	15.364	6	21088	265486	2	Standard
⌊	**Mn**	**55**	**19.284**	ug/L	0.861	4	544	760297	1	Standard
⌈>	**Ge**	**72**		ug/L			46611	35668	0	KED
|	**Cu**	**63**	**31.924**	ug/L	0.028	0	60	114679	0	KED
|	**Cu**	**65**	**31.375**	ug/L	0.444	1	30	57935	1	KED
|	**Zn**	**66**	**93.240**	ug/L	0.983	1	33	44708	0	KED
|	**Zn**	**67**	**91.094**	ug/L	1.709	1	4	7393	1	KED
⌊	**As**	**75**	**27.396**	ug/L	0.458	1	2	7000	1	KED
	Y	**89**		ug/L			391138	353540	8	Standard
	Kr	**83**		ug/L			46	60	3	Standard
⌈>	**In-1**	**115**		ug/L			10762	8209	0	KED
|	**Cd**	**111**	**25.498**	ug/L	0.441	1	5	6490	1	KED
⌊	**Cd**	**114**	**25.428**	ug/L	0.064	0	4	16720	0	KED
⌈>	**In**	**115**		ug/L			626853	507711	4	Standard
⌊	**Ag**	**107**	**24.390**	ug/L	1.359	5	83	405616	1	Standard
⌈>	**Tb**	**159**		ug/L			1475140	1320259	6	Standard
⌊	**Pb**	**208**	**30.796**	ug/L	2.128	6	279	2475633	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLO
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 10:11:08
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			44209	43354	2	Standard
⌈>	**Sc**	**45**		ug/L			782863	696054	2	Standard
|	**Cr**	**52**	**-0.061**	ug/L	0.011	17	19712	16114	0	Standard
|	**Cr**	**53**	**-0.006**	ug/L	0.004	67	193	154	7	Standard
|	**Fe**	**54**	**-0.980**	ug/L	0.189	19	85331	73678	1	Standard
|	**Fe**	**57**	**-1.366**	ug/L	0.290	21	21088	17510	3	Standard
⌊	**Mn**	**55**	**0.005**	ug/L	0.001	22	544	668	5	Standard
⌈>	**Ge**	**72**		ug/L			46611	40383	0	KED
|	**Cu**	**63**	**0.156**	ug/L	0.008	5	60	685	4	KED
|	**Cu**	**65**	**0.155**	ug/L	0.017	11	30	349	10	KED
|	**Zn**	**66**	**0.267**	ug/L	0.034	12	33	173	10	KED
|	**Zn**	**67**	**0.338**	ug/L	0.053	15	4	34	13	KED
⌊	**As**	**75**	**0.003**	ug/L	0.003	94	2	2	26	KED
	Y	**89**		ug/L			391138	367545	0	Standard
	Kr	**83**		ug/L			46	44	13	Standard
⌈>	**In-1**	**115**		ug/L			10762	9094	0	KED
|	**Cd**	**111**	**-0.001**	ug/L	0.005	957	5	4	35	KED
⌊	**Cd**	**114**	**0.006**	ug/L	0.004	64	4	8	32	KED
⌈>	**In**	**115**		ug/L			626853	583135	1	Standard
⌊	**Ag**	**107**	**0.003**	ug/L	0.002	56	83	135	22	Standard
⌈>	**Tb**	**159**		ug/L			1475140	1390617	1	Standard
⌊	**Pb**	**208**	**0.008**	ug/L	0.000	3	279	924	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVL
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 10:15:42
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			44209	43857	3	Standard
>	Sc	45		ug/L			782863	721194	1	Standard
	Cr	52	45.229	ug/L	0.590	1	19712	1094156	1	Standard
	Cr	53	45.723	ug/L	0.907	1	193	127144	2	Standard
	Fe	54	4849.361	ug/L	64.870	1	85331	11288800	1	Standard
	Fe	57	4820.297	ug/L	90.489	1	21088	4560290	2	Standard
	Mn	55	47.366	ug/L	0.919	1	544	1733446	1	Standard
>	Ge	72		ug/L			46611	40550	3	KED
	Cu	63	54.957	ug/L	2.603	4	60	224157	1	KED
	Cu	65	54.116	ug/L	2.526	4	30	113470	1	KED
	Zn	66	55.062	ug/L	1.745	3	33	30010	1	KED
	Zn	67	52.256	ug/L	2.932	5	4	4817	3	KED
	As	75	51.186	ug/L	2.643	5	2	14849	1	KED
	Y	89		ug/L			391138	381015	4	Standard
	Kr	83		ug/L			46	54	17	Standard
>	In-1	115		ug/L			10762	9442	1	KED
	Cd	111	51.589	ug/L	1.118	2	5	15096	1	KED
	Cd	114	52.177	ug/L	0.320	0	4	39456	0	KED
>	In	115		ug/L			626853	590628	3	Standard
	Ag	107	49.862	ug/L	1.048	2	83	966015	3	Standard
>	Tb	159		ug/L			1475140	1471535	1	Standard
	Pb	208	57.530	ug/L	0.981	1	279	5168138	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBL
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 10:22:59
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			44209	42795	0	Standard
⌈>	**Sc**	**45**		ug/L			782863	726933	3	Standard
|	**Cr**	**52**	**-0.083**	ug/L	0.013	15	19712	16299	2	Standard
|	**Cr**	**53**	**-0.017**	ug/L	0.003	18	193	132	3	Standard
|	**Fe**	**54**	**-1.123**	ug/L	0.676	60	85331	76581	2	Standard
|	**Fe**	**57**	**-4.792**	ug/L	0.144	2	21088	15029	3	Standard
⌊	**Mn**	**55**	**0.000**	ug/L	0.000	204	544	509	5	Standard
⌈>	**Ge**	**72**		ug/L			46611	43256	0	KED
|	**Cu**	**63**	**0.001**	ug/L	0.004	444	60	60	27	KED
|	**Cu**	**65**	**-0.002**	ug/L	0.004	210	30	23	41	KED
|	**Zn**	**66**	**0.047**	ug/L	0.022	46	33	57	21	KED
|	**Zn**	**67**	**0.023**	ug/L	0.012	51	4	6	17	KED
⌊	**As**	**75**	**0.006**	ug/L	0.006	99	2	3	45	KED
	Y	**89**		ug/L			391138	379225	2	Standard
	Kr	**83**		ug/L			46	41	4	Standard
⌈>	**In-1**	**115**		ug/L			10762	9829	1	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.008	426	5	4	58	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.002	206	4	3	49	KED
⌈>	**In**	**115**		ug/L			626853	604245	3	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.001	60	83	122	24	Standard
⌈>	**Tb**	**159**		ug/L			1475140	1430515	0	Standard
⌊	**Pb**	**208**	**0.002**	ug/L	0.001	50	279	414	17	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 10:27:32
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			44209	47638	0	Standard
⌈>	**Sc**	**45**		ug/L			782863	813520	1	Standard
|	**Cr**	**52**	**-0.090**	ug/L	0.009	9	19712	18069	1	Standard
|	**Cr**	**53**	**-0.024**	ug/L	0.003	11	193	125	5	Standard
|	**Fe**	**54**	**67.868**	ug/L	0.461	0	85331	265667	1	Standard
|	**Fe**	**57**	**-5.664**	ug/L	0.163	2	21088	15896	2	Standard
⌊	**Mn**	**55**	**0.017**	ug/L	0.000	0	544	1252	1	Standard
⌈>	**Ge**	**72**		ug/L			46611	43225	1	KED
|	**Cu**	**63**	**-0.002**	ug/L	0.001	64	60	48	8	KED
|	**Cu**	**65**	**-0.000**	ug/L	0.006	7707	30	27	50	KED
|	**Zn**	**66**	**0.030**	ug/L	0.024	79	33	48	29	KED
|	**Zn**	**67**	**0.029**	ug/L	0.040	137	4	6	56	KED
⌊	**As**	**75**	**0.003**	ug/L	0.001	56	2	2	16	KED
	Y	**89**		ug/L			391138	426364	3	Standard
	Kr	**83**		ug/L			46	41	20	Standard
⌈>	**In-1**	**115**		ug/L			10762	10486	2	KED
|	**Cd**	**111**	**-0.009**	ug/L	0.005	54	5	1	86	KED
⌊	**Cd**	**114**	**-0.004**	ug/L	0.000	3	4	1	6	KED
⌈>	**In**	**115**		ug/L			626853	673479	0	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.000	1	83	116	0	Standard
⌈>	**Tb**	**159**		ug/L			1475140	1559324	1	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	13	279	366	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 10:32:06
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			44209	47196	2	Standard
⌈>	**Sc**	**45**		ug/L			782863	821082	1	Standard
|	**Cr**	**52**	**-0.098**	ug/L	0.011	11	19712	18015	1	Standard
|	**Cr**	**53**	**-0.021**	ug/L	0.003	15	193	137	9	Standard
|	**Fe**	**54**	**68.018**	ug/L	0.681	1	85331	268542	2	Standard
|	**Fe**	**57**	**-6.079**	ug/L	0.465	7	21088	15593	2	Standard
⌊	**Mn**	**55**	**0.017**	ug/L	0.001	4	544	1271	2	Standard
⌈>	**Ge**	**72**		ug/L			46611	43713	1	KED
|	**Cu**	**63**	**-0.002**	ug/L	0.003	133	60	48	23	KED
|	**Cu**	**65**	**-0.000**	ug/L	0.005	1536	30	27	37	KED
|	**Zn**	**66**	**0.008**	ug/L	0.007	93	33	35	11	KED
|	**Zn**	**67**	**0.034**	ug/L	0.037	108	4	7	50	KED
⌊	**As**	**75**	**0.001**	ug/L	0.003	217	2	2	39	KED
	Y	**89**		ug/L			391138	427408	1	Standard
	Kr	**83**		ug/L			46	41	18	Standard
⌈>	**In-1**	**115**		ug/L			10762	10611	1	KED
|	**Cd**	**111**	**-0.005**	ug/L	0.004	93	5	3	41	KED
⌊	**Cd**	**114**	**-0.004**	ug/L	0.001	31	4	1	107	KED
⌈>	**In**	**115**		ug/L			626853	678366	3	Standard
⌊	**Ag**	**107**	**0.000**	ug/L	0.001	603	83	93	21	Standard
⌈>	**Tb**	**159**		ug/L			1475140	1574181	0	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	45	279	346	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 10:36:39
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			44209	47974	2	Standard
⌈>	**Sc**	**45**		ug/L			782863	827750	1	Standard
|	**Cr**	**52**	**-0.086**	ug/L	0.016	19	19712	18496	0	Standard
|	**Cr**	**53**	**-0.024**	ug/L	0.004	18	193	128	10	Standard
|	**Fe**	**54**	**68.183**	ug/L	1.692	2	85331	271140	1	Standard
|	**Fe**	**57**	**-5.600**	ug/L	0.117	2	21088	16242	1	Standard
⌊	**Mn**	**55**	**0.016**	ug/L	0.001	4	544	1258	1	Standard
⌈>	**Ge**	**72**		ug/L			46611	43828	1	KED
|	**Cu**	**63**	**-0.002**	ug/L	0.003	134	60	47	28	KED
|	**Cu**	**65**	**0.002**	ug/L	0.002	97	30	32	11	KED
|	**Zn**	**66**	**0.006**	ug/L	0.015	260	33	34	24	KED
|	**Zn**	**67**	**0.003**	ug/L	0.030	1018	4	4	65	KED
⌊	**As**	**75**	**-0.000**	ug/L	0.002	2329	2	2	35	KED
	Y	**89**		ug/L			391138	435305	1	Standard
	Kr	**83**		ug/L			46	47	22	Standard
⌈>	**In-1**	**115**		ug/L			10762	10751	1	KED
|	**Cd**	**111**	**-0.009**	ug/L	0.002	20	5	2	24	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.001	65	4	3	40	KED
⌈>	**In**	**115**		ug/L			626853	671505	2	Standard
⌊	**Ag**	**107**	**-0.000**	ug/L	0.001	322	83	83	18	Standard
⌈>	**Tb**	**159**		ug/L			1475140	1569748	0	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	73	279	338	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 10:41:12
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			44209	45351	1	Standard
⌈>	**Sc**	**45**		ug/L			782863	706384	2	Standard
|	**Cr**	**52**	**-0.053**	ug/L	0.011	20	19712	16546	0	Standard
|	**Cr**	**53**	**-0.018**	ug/L	0.004	21	193	124	8	Standard
|	**Fe**	**54**	**-20.227**	ug/L	0.488	2	85331	31188	3	Standard
|	**Fe**	**57**	**-5.067**	ug/L	0.301	5	21088	14349	0	Standard
⌊	**Mn**	**55**	**-0.007**	ug/L	0.000	3	544	233	2	Standard
⌈>	**Ge**	**72**		ug/L			46611	42750	1	KED
|	**Cu**	**63**	**-0.002**	ug/L	0.001	55	60	46	10	KED
|	**Cu**	**65**	**-0.004**	ug/L	0.001	33	30	19	14	KED
|	**Zn**	**66**	**-0.021**	ug/L	0.007	33	33	18	21	KED
|	**Zn**	**67**	**0.004**	ug/L	0.031	767	4	4	65	KED
⌊	**As**	**75**	**0.001**	ug/L	0.005	767	2	2	65	KED
	Y	**89**		ug/L			391138	353225	2	Standard
	Kr	**83**		ug/L			46	48	11	Standard
⌈>	**In-1**	**115**		ug/L			10762	9979	6	KED
|	**Cd**	**111**	**-0.004**	ug/L	0.002	60	5	3	15	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.003	299	4	3	52	KED
⌈>	**In**	**115**		ug/L			626853	573351	4	Standard
⌊	**Ag**	**107**	**-0.003**	ug/L	0.000	5	83	26	7	Standard
⌈>	**Tb**	**159**		ug/L			1475140	1371052	1	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.000	12	279	171	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 10:45:45
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			44209	45830	2	Standard
⌈>	**Sc**	**45**		ug/L			782863	712677	1	Standard
|	**Cr**	**52**	**-0.059**	ug/L	0.018	30	19712	16564	3	Standard
|	**Cr**	**53**	**-0.020**	ug/L	0.002	8	193	120	3	Standard
|	**Fe**	**54**	**-20.288**	ug/L	0.139	0	85331	31331	2	Standard
|	**Fe**	**57**	**-4.743**	ug/L	0.272	5	21088	14782	2	Standard
⌊	**Mn**	**55**	**-0.008**	ug/L	0.000	5	544	219	8	Standard
⌈>	**Ge**	**72**		ug/L			46611	42740	0	KED
|	**Cu**	**63**	**-0.001**	ug/L	0.002	235	60	52	14	KED
|	**Cu**	**65**	**-0.003**	ug/L	0.003	85	30	20	32	KED
|	**Zn**	**66**	**-0.023**	ug/L	0.003	13	33	17	11	KED
|	**Zn**	**67**	**0.010**	ug/L	0.011	106	4	5	21	KED
⌊	**As**	**75**	**0.002**	ug/L	0.004	240	2	2	47	KED
	Y	**89**		ug/L			391138	350344	1	Standard
	Kr	**83**		ug/L			46	40	37	Standard
⌈>	**In-1**	**115**		ug/L			10762	9842	1	KED
|	**Cd**	**111**	**-0.008**	ug/L	0.004	45	5	2	49	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.005	515	4	3	99	KED
⌈>	**In**	**115**		ug/L			626853	576098	0	Standard
⌊	**Ag**	**107**	**-0.002**	ug/L	0.001	31	83	33	41	Standard
⌈>	**Tb**	**159**		ug/L			1475140	1371208	1	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.000	13	279	162	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 10:50:19
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050123A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			44209	46314	2	Standard
>	**Sc**	**45**		ug/L			782863	715511	0	Standard
	Cr	**52**	**-0.047**	ug/L	0.010	22	19712	16912	1	Standard
	Cr	**53**	**-0.017**	ug/L	0.005	30	193	131	10	Standard
	Fe	**54**	**-20.343**	ug/L	0.261	1	85331	31327	1	Standard
	Fe	**57**	**-4.821**	ug/L	0.115	2	21088	14769	0	Standard
	Mn	**55**	**-0.007**	ug/L	0.000	2	544	234	1	Standard
>	**Ge**	**72**		ug/L			46611	42949	0	KED
	Cu	**63**	**-0.003**	ug/L	0.002	75	60	43	22	KED
	Cu	**65**	**-0.005**	ug/L	0.001	22	30	17	12	KED
	Zn	**66**	**-0.026**	ug/L	0.003	11	33	15	12	KED
	Zn	**67**	**0.023**	ug/L	0.030	130	4	6	45	KED
	As	**75**	**0.002**	ug/L	0.003	152	2	2	36	KED
	Y	**89**		ug/L			391138	359793	1	Standard
	Kr	**83**		ug/L			46	45	21	Standard
>	**In-1**	**115**		ug/L			10762	10007	2	KED
	Cd	**111**	**-0.005**	ug/L	0.004	70	5	3	34	KED
	Cd	**114**	**-0.002**	ug/L	0.002	77	4	3	39	KED
>	**In**	**115**		ug/L			626853	573009	0	Standard
	Ag	**107**	**-0.002**	ug/L	0.000	13	83	31	18	Standard
>	**Tb**	**159**		ug/L			1475140	1351369	0	Standard
	Pb	**208**	**-0.001**	ug/L	0.000	13	279	143	9	Standard

INITIAL CALIBRATION DATA

EPA 6020B

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GE00013	Instrument:	ICPMS1
Calibration Date:	05/02/2023 13:47		

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF
Silver-107	0	0	0.2	19455	10	19540.1	20	19118.6	50	17879.82	100	17551.85
Chromium-52	0	0	0.5	61716	10	28950.8	20	26638.15	50	25172.96	100	25541.16
Chromium-53	0	0	0.5	3378	10	3078.8	20	3013.7	50	2877.66	100	2858.88
Lead-208	0	0	0.1	101420	10	98241.6	20	96060.95	50	92245.5	100	91035.03

INITIAL CALIBRATION DATA

EPA 6020B

Laboratory: Analytical Resources, LLC
Instrument: ICPMS1
Calibration: GE00013
Calibration Date: 5/2/2023

COMPOUND	Mean RF	RF RSD	Linear COD	Quad COD	COD Limit	Q
Silver-107	15590.9	49.3	0.9996		0.998	
Chromium-52	28003.18	70.3	0.9998		0.998	
Chromium-53	2534.507	49.5	0.9999		0.998	
Lead-208	79833.85	49.2	0.9998		0.998	

INITIAL CALIBRATION DATA

EPA 6020B UCT-KED

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GE00013	Instrument:	ICPMS1
Calibration Date:	05/02/2023 13:47		

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF
Arsenic-75a	0	0	0.2	380	10	394.2	20	383.3	50	369.32	100	371.34
Cadmium-111	0	0	0.1	390	10	383.8	20	373.2	50	357.5	100	352.24
Cadmium-114	0	0	0.1	1090	10	975.7	20	937.95	50	897.84	100	895.02
Copper-63	0	0	0.5	6052	10	5565.6	20	5405.75	50	5108.7	100	5028.46
Copper-65	0	0	0.5	3040	10	2847.7	20	2758.8	50	2613.5	100	2576.83
Zinc-66	0	0	6	793.6667	10	795.8	20	784.6	50	734.36	100	725.14
Zinc-67	0	0	6	122	10	130.1	20	129.5	50	120.28	100	117.57

INITIAL CALIBRATION DATA

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Instrument: ICPMS1
Calibration: GE00013
Calibration Date: 5/2/2023

COMPOUND	Mean RF	RF RSD	Linear COD	Quad COD	COD Limit	Q
Arsenic-75a	316.36	49.1	0.9999		0.998	
Cadmium-111	309.4567	49.2	0.9998		0.998	
Cadmium-114	799.4183	49.8	0.9999		0.998	
Copper-63	4526.752	49.7	0.9997		0.998	
Copper-65	2306.138	49.5	0.9998		0.998	
Zinc-66	638.9278	49.2	0.9998		0.998	
Zinc-67	103.2417	49.2	0.9996		0.998	

Analytical Resources, Incorporated
Analytical Chemists and Consultants

ICP/MS - 01 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 85DN5032601

Analysis Date: 5/2/23 **Analyst:** MB **Sequence:** SLEØØ43 **Cal:** GEØØØ13

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
	✓	SEQ-CAL1	—		
		-CAL2			
		-CAL3			
		-CAL4			
		-CAL5			
		-CAL6			Std Mode noisy
		-IBL1	—		
		SEQ-CAL1	L484Ø		
		-CAL2	L4627		
		-CAL3	L4628		
		-CAL4	L4629		
		-CAL5	L4889		
		-CAL6	L463Ø		
		-IBL1	—		
		-ICV1	L3575		
		-ICB1	L484Ø		
		-CCV1	L4889		
		-CCB1	L484Ø		
	✓	-CRL1	—		Cu↑
		-CRL1	L4627		
		-IFA1	L4688		Cr53↑
		-IFB1	L4689		
		-ICV1	L478Ø		
		-ICV2	L4781		Pb↑ - Pb<200

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 85DN5032601

Analysis Date: 5/2/23 **Analyst:** MB **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ-IBL2			(Pb↑ +noisy / Std mode s/. noisy)
		-IBL3			
	✓	-CCV2			Std Mode noisy
		-CCV2			
		-CCB2			
		BLØØ517-BLK1	REN		
		-BS1			
		BLEØØ54-BLK1			
	✓	-BS1			Std Mode noisy
		-BS1			
		23EØØØ5-Ø1		5	
		23DØ631-Ø1		2	
		23DØ1Ø2-Ø1		↓	
		SEQ-IBL4			
		-CCV3			
		-CCB3			
	✓	-CAL1			Mn Removed
		-CCV4			
		-CCB4			
		23AØ417-Ø2	SWN	20	
		-Ø3			Sc↑ No Co
		-Ø4			
		-Ø5			
		-Ø6			

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 85DN5032601

Analysis Date: 5/2/23 **Analyst:** MS **Sequence:** ~~~~ **Cal:** ~~~~

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		23AΦ417-Φ7	SWN	20	
		-Φ8	↓	↓	Sc↑/Zn↑ No Cr, Zn
		-Φ9			
		-1Φ			
		↓ -11			
		SEQ-CCV5			
		↓ -CCB5			
		23AΦ417-12	SWN	20	
		-13	↓	↓	
		-14			Sc↑ No Cr
		↓ -15			
		23AΦ42Φ-Φ1			Sc↑ No Cr
		-Φ7			↓ ↓
		-Φ8			
		↓ -Φ9			Sc↑ No Cr
		23AΦ419-Φ2			↓ ↕
		↓ -Φ3	↓	↓	Std Mode noisy No Ag, Cr, Pb
		SEQ-CCV6			
		↓ -CCB6			
		23AΦ419-Φ1	SWN	100	Zn only
		BLDΦ452-DUP2	↓	↓	↓
		-MS2			
		-MSD2			Zn %R↑
	✓	↓ -PS2	↓	↓	No spike ↓

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 85DN5032601

Analysis Date: 5/2/23 **Analyst:** MB **Sequence:** ~~~~ **Cal:** ~~~~

All corrections made by analyst unless otherwise noted. MB 5/2/23

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		23AΦ420-Φ4	SWN	20	As only
		23AΦ419-Φ4	↓	↓	
		-Φ5			
		-Φ6			
		-Φ7			In-1 noisy -%R ΦAnalytes OK
		SEQ-CCV7			
		↓ -CCB7			
		23AΦ419-Φ8	SWN	20	Sc, In, Tb noisy No Ag, Cr, Pb
		-Φ9	↓	↓	
		-10			
		-11			
		-12			
		23CΦ752-Φ1			
		-Φ2			
		-Φ3			
		-Φ4			
Φ5→Φ6		~~Φ5~~ Φ6			
		SEQ-CCV8			
		↓ -CCB8			
		23AΦ455-Φ2	SWN	20	No As, Cu, Zn
		-Φ3	↓	↓	↓
		-Φ4			
		-Φ5			
		-Φ6			

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 85DN5032601

Analysis Date: 5/2/23 **Analyst:** MB **Sequence:** _____ **Cal:** _____

All corrections made by analyst unless otherwise noted. MB 5/2/23

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		23A0455-07	SWN	20	No As, Cr, Zn
		-08	↓	↓	↓
	✓	-09			Sc, Rh, Tb noisy
		-10			No As, Cr, Zn
		-11	↓	↓	↓
		SEQ-CCV9			Ge noisy
		-CCB9			
	✓	-CAL1			
		-CCVA			
		-CCBA			
		23A0455-12	SWN	20	Sc↑ No Cr, Pb
		-13	↓	↓	↓ ↓
		-14			↓ ↓
		-15			Ge noisy No As, Cu, Zn, Pb
		-16			No Pb
		-17			↓
		-18	↓	↓	Sc, Rh, Tb noisy No Ag, Cr, Pb
		2300099-01	REN	5	No Pb
		2300072-01	↓	100	↓
		SEQ-IBL5			
		-CCVB			Pb↑
		-CCBB			
		2300593-01	REN	2	No Pb
		↓ -02	↓	↓	↓

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 85DN5032601

Analysis Date: 5/2/23 **Analyst:** MB **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted. MB 5/2/23

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		230ϕ593-ϕ3	REN	ϕ2	No Pb
		↓ -ϕ4	↓	↓	↓
		SEQ-IBL6			
		230ϕϕ64-ϕ3	REN		
		↓ -ϕ1			Sc, In, Tb/Cd noisy / noisy No Cd, Cr, Pb
		BLDϕ517-DUP1			↓
		↓ -MS1			
		SEQ-IBL7			
		-CCVC			
		↓ -CCBC			
		230ϕ1ϕ1-ϕ1	REN	2	No Pb
		230ϕ111-ϕ2			↓
		230ϕ113-ϕ1		20	
		230ϕ114-ϕ1			
		230ϕ115-ϕ1			
		230ϕ442-ϕ2			Sc↑ No Cr, Pb
		BLEϕϕ54-DUP1			↓ ↓
		↓ -MS1			
		↓ -MSD1	↓		↓ ↓
		SEQ-IBL8			
		-CCVD			Pb↑
		↓ -CCBD			
		BLDϕ643-BCK1	REN		No Pb
		↓ -BS1	↓		

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 85DN5032601

Analysis Date: 5/2/23 **Analyst:** MB **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		230ϕϕ73-ϕ1	REN		No Pb
		230ϕϕ75-ϕ1	↓		
		-ϕ2			
	✓	-ϕ3			Gel↓
		-ϕ4			
		-ϕ5			
		230ϕ197-ϕ1			
		SEQ-IBL9			
		-CCVE			Pb↑
		-CCBE			
	✓	-CAL1			
		-CCVF			Pb↑
		-CCBF			
		230ϕ147-ϕ1	REN		Sc↑/Sc,Th,Tb noisy No Pb
		-ϕ3	↓		
		230ϕ152-ϕ1			
		230ϕ155-ϕ1			
		230ϕ156-ϕ1			
		230ϕ162-ϕ3			
		-ϕ1		2	
		-ϕ5		↓	
		230ϕ168-ϕ1			
		SEQ-IBLA			
		-CCVG			Pb↑

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 85DN5032601

Analysis Date: 5/2/23 **Analyst:** MB **Sequence:** ~~_____~~ **Cal:** ~~_____~~

All corrections made by analyst unless otherwise noted. MB 5/2/23

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ-CCBG			
		230Φ177-Φ1	REN		No Pb
		↓ -Φ3	↓		↓
		↓ -Φ5			Ge sl. noisy No Cu, Pb, Zn
		↓ -Φ7			No Pb
		230Φ178-Φ1			
		230Φ179-Φ1			
		↓ -Φ2			
		230Φ2Φ1-Φ1			No Pb
		↓ -Φ2	↓		↓
		SEQ-IBLB			
		↓ -CCVH			Pb? / Sc, In, Tb sl. noisy - %R & Analytes OK
		↓ -CCBH			
		~~230Φ2Φ3-Φ1~~	REN		
		↓ -Φ4	↓		
		230Φ218-Φ1			
		230Φ22Φ-Φ1			
		230Φ221-Φ1			
		230Φ225-Φ1		MB 5/2/23	
		230Φ245-Φ1			
		↓ -Φ2			
		230Φ251-Φ1	↓		
		SEQ-IBLC			
		~~↓ -CCVH~~			

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 85DN5032601

Analysis Date: 5/2/23 **Analyst:** MS **Sequence:** — **Cal:** —

All corrections made by analyst unless otherwise noted. MS 5/2/23

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
—		SEQ-CCBH		MS 5/2/23	
		230Φ203-Φ1	REN		
		↓ -Φ4	↓		
		230Φ218-Φ1			No Pb
		230Φ220-Φ1			
		230Φ221-Φ1			No Pb
		230Φ225-Φ1			Sc↑ - Not Needed
		230Φ245-Φ1			Cu↑ No Cu
		↓ -Φ2			
		230Φ251-Φ1	↓		
		SEQ-IBLC			
		↓ -CCVI			Pb↑
		↓ -CCBI			
		230Φ253-Φ1	REN		
		230Φ254-Φ1			No Pb
		230Φ264-Φ1			
	✓	230Φ266-Φ1			Cu, Zn↑
		230Φ278-Φ1			No Pb
		230Φ301-Φ1			
		↓ -Φ2			
		230Φ368-Φ1			
		↓ -Φ2	↓		
		SEQ-IBLD			
		↓ -CCVS			Pb↑

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 85DN5032601

Analysis Date: 5/2/23 **Analyst:** MB **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ-CCBJ			
		BLΦ561-BLK1	REN		Cu↑ (0.570/0.560) - Samples ×10x
		↓ -BS1	↓		
		230Φ298-Φ1	↓		
	✓	230Φ2Φ5-Φ2	↓		Ge noisy / Cu ×10x BLK cont.
		-Φ4	↓		↓
		-Φ6	↓		↓
		230Φ2Φ6-Φ2	↓		↓
		-Φ4	↓		↓
		-Φ6	↓		↓
		SEQ-IBLE			
		-CCVK			Pb↑
		↓ -CCBK			Sc, In noisy - ~1R + Analytes OK
		Rinse/DI			
			MB 5/2/23		

Performance Check Report

Sample ID: STD Performance Check
Sample Date/Time: Tuesday, May 02, 2023 12:21:47
Sample Description:
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\STD Performance Check.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Default\STD Performance Check.095
MassCal File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Conditions File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Dual Detector Mode: Pulse
Acq. Dead Time (ns): 35
Current Dead Time (ns): 35
Torch Z position (mm): 0.00

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD	Mode
	Be	9.0	10126.8	10126.788	123.067	1.2	Standard
	In	114.9	97144.5	-529708.759	1736.228	0.3	Standard
	U	238.1	110073.9	110073.909	1558.589	1.4	Standard
⌈	CeO	155.9	3834.4	0.029	0.000	1.6	Standard
| >	Ce	139.9	133460.6	133460.555	1996.858	1.5	Standard
⌊	Ce++	70.0	1802.0	0.014	0.000	3.2	Standard
	Bkgd	220.0	2.1	2.100	1.234	58.8	Standard

Current Conditions File Data

Current Value	Description
0.92	Nebulizer Gas Flow STD/KED [NEB]
1.20	Auxiliary Gas Flow
17.50	Plasma Gas Flow
-10.75	Deflector Voltage
1600.00	ICP RF Power
-1600.00	Analog Stage Voltage
1000.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset STD [QRO]
-10.00	Cell Rod Offset STD [CRO]
14.00	Discriminator Threshold
-5.00	Cell Entrance/Exit Voltage STD
0.00	RPa
0.45	RPq
0.92	DRC Mode NEB
-7.50	DRC Mode QRO
-2.00	DRC Mode CRO
-5.00	DRC Mode Cell Entrance/Exit Voltage
0.60	Cell Gas A
0.00	Cell Gas B
200.00	Axial Field Voltage
-11.00	KED Mode CRO
-12.00	KED Mode QRO
-11.00	KED Mode Cell Entrance Voltage
-33.00	KED Mode Cell Exit Voltage
0.00	KED Cell Gas A
3.00	KED Cell Gas B
0.00	KED RPa
0.25	KED RPq
125.00	KED Mode Axial Field Voltage

Performance Check Report

Sample ID: STD Performance Check
Sample Date/Time: Tuesday, May 02, 2023 12:31:49
Sample Description:
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\STD Performance Check.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Default\STD Performance Check.102
MassCal File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Conditions File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Dual Detector Mode: Pulse
Acq. Dead Time (ns): 35
Current Dead Time (ns): 35
Torch Z position (mm): 0.00

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD	Mode
	Be	9.0	9961.7	9961.740	175.425	1.8	Standard
	In	114.9	88987.2	88987.184	905.258	1.0	Standard
	U	238.1	105364.0	105363.978	2055.927	2.0	Standard
⌈	CeO	155.9	2970.1	0.024	0.000	1.8	Standard
| >	Ce	139.9	123241.3	123241.263	824.730	0.7	Standard
⌊	Ce++	70.0	1481.3	0.012	0.001	5.5	Standard
	Bkgd	220.0	1.2	1.167	0.354	30.3	Standard

Current Conditions File Data

Current Value	Description
0.91	Nebulizer Gas Flow STD/KED [NEB]
1.20	Auxiliary Gas Flow
17.50	Plasma Gas Flow
-10.75	Deflector Voltage
1600.00	ICP RF Power
-1600.00	Analog Stage Voltage
1000.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset STD [QRO]
-10.00	Cell Rod Offset STD [CRO]
14.00	Discriminator Threshold
-5.00	Cell Entrance/Exit Voltage STD
0.00	RPa
0.45	RPq
0.91	DRC Mode NEB
-7.50	DRC Mode QRO
-2.00	DRC Mode CRO
-5.00	DRC Mode Cell Entrance/Exit Voltage
0.60	Cell Gas A
0.00	Cell Gas B
200.00	Axial Field Voltage
-11.00	KED Mode CRO
-12.00	KED Mode QRO
-11.00	KED Mode Cell Entrance Voltage
-33.00	KED Mode Cell Exit Voltage
0.00	KED Cell Gas A
3.00	KED Cell Gas B
0.00	KED RPa
0.25	KED RPq
125.00	KED Mode Axial Field Voltage

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDailyUCT.swz

Start Time: 5/2/2023 12:21:46 PM
End Time: 5/2/2023 12:33:53 PM

STD Performance Check - [Failed]
Obtained Intensity (Be 9): 10126.79
Obtained Intensity (In 115): 97144.53
Obtained Intensity (U 238): 110073.91
Obtained Intensity (Bkgd 220): 2.10
Obtained Formula (Ce++ 70 / Ce 140): 0.014 (=1802.05 / 133460.56)
Obtained Formula (CeO 156 / Ce 140): 0.029 (=3834.38 / 133460.56) - <Target not achieved>
Obtained RSD (Be 9): 0.0122
Obtained RSD (In 115): 0.0033
Obtained RSD (U 238): 0.0142

Torch Alignment - [Passed]

Vertical	Horizontal	Intensity
0.85 mm	0.80 mm	104569.32

Nebulizer Gas Flow STD/KED [NEB] - [Passed] Optimum value(s): 0.91
Obtained Intensity (In 115): 93685.19
Obtained Formula (CeO 156 / Ce 140): 0.0239 (=3079.33 / 128703.16)

Mass Calibration and Resolution - [Passed] Optimum value(s): N/A
Target/Obtained mass (7.016/7.025), Target/Obtained resolution (0.7/0.690)
Target/Obtained mass (23.985/23.975), Target/Obtained resolution (0.7/0.699)
Target/Obtained mass (114.904/114.875), Target/Obtained resolution (0.7/0.703)
Target/Obtained mass (238.05/238.025), Target/Obtained resolution (0.7/0.694)

QID STD/DRC - Optimum value(s): Correlation Coefficient = 0.998; Intercept = -13.63

KED Mode QID - Optimum value(s): Correlation Coefficient = 0.991; Intercept = -14.90

STD Performance Check - [Passed] Optimum value(s): N/A
Obtained Intensity (Be 9): 9961.74
Obtained Intensity (In 115): 88987.18
Obtained Intensity (U 238): 105363.98
Obtained Intensity (Bkgd 220): 1.17
Obtained Formula (Ce++ 70 / Ce 140): 0.012 (=1481.28 / 123241.26)
Obtained Formula (CeO 156 / Ce 140): 0.024 (=2970.11 / 123241.26)
Obtained RSD (Be 9): 0.0176
Obtained RSD (In 115): 0.0102
Obtained RSD (U 238): 0.0195

SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDailyUCT.swz

Optimization Status

Start Time: 5/2/2023 12:21:46 PM

STD Performance Check
	Optimization Settings:
		Method: STD Performance Check.mth.
		Intensity Criterion: Be 9 > 2000
		Intensity Criterion: In 115 > 40000
		Intensity Criterion: U 238 > 30000
		Intensity Criterion: Bkgd 220 <= 5
		Formula Criterion: Ce++ 70 / Ce 140 <= 0.03
		Formula Criterion: CeO 156 / Ce 140 <= 0.025
		RSD Criterion: Be 9.0122 < 0.05
		RSD Criterion: In 114.904 < 0.05
		RSD Criterion: U 238.05 < 0.05

	Optimization Results:
	Initial Try
		Obtained Intensity (Be 9): 10126.79
		Obtained Intensity (In 115): 97144.53
		Obtained Intensity (U 238): 110073.91
		Obtained Intensity (Bkgd 220): 2.10
		Obtained Formula (Ce++ 70 / Ce 140): 0.014 (=1802.05 / 133460.56)
		Obtained Formula (CeO 156 / Ce 140): 0.029 (=3834.38 / 133460.56) - <Target not achieved>
		Obtained RSD (Be 9): 0.0122
		Obtained RSD (In 115): 0.0033
		Obtained RSD (U 238): 0.0142

		[Failed]
[Failed]

Torch Alignment
	Optimization Settings:
		Method: Torch Alignment.mth.
		Intensity Criterion: In 115 Maximum

	Optimization Results:
		Vertical	Horizontal	Intensity
[Passed]	0.85 mm	0.80 mm	104569.32

Nebulizer Gas Flow STD/KED [NEB]
	Optimization Settings:
		Method: Optimize.mth.
			Initial Try - Start/End/Step: 0.89/0.96/0.01.
		Intensity Criterion: In 115 Maximum
		Formula Criterion: CeO 156 / Ce 140 <= 0.025

	Optimization Results:
	Initial Try

		Obtained Intensity (In 115): 93685.19
		Obtained Formula (CeO 156 / Ce 140): 0.0239 (=3079.33 / 128703.16)
[Passed] Optimum value(s): 0.91

Mass Calibration and Resolution
	Optimization Settings:
		Method: Tuning.mth.
		MassCal File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
		Iterations: 6
		Target accuracy (+/- amu): 0.05 for Mass Cal. and 0.03 for Resolution
		Peak height (%) for Res. Opt.: 10

	Optimization Results:
	Initial Try
		Target/Obtained mass (7.016/7.025), Target/Obtained resolution (0.7/0.714)
		Target/Obtained mass (23.985/24.025), Target/Obtained resolution (0.7/0.687)
		Target/Obtained mass (114.904/114.925), Target/Obtained resolution (0.7/0.712)
		Target/Obtained mass (238.05/238.125), Target/Obtained resolution (0.7/0.705) - <Target not achieved>
		[Failed]
	Retry 1
		Target/Obtained mass (7.016/7.025), Target/Obtained resolution (0.7/0.690)
		Target/Obtained mass (23.985/23.975), Target/Obtained resolution (0.7/0.699)
		Target/Obtained mass (114.904/114.875), Target/Obtained resolution (0.7/0.703)
		Target/Obtained mass (238.05/238.025), Target/Obtained resolution (0.7/0.694)
[Passed] Optimum value(s): N/A

QID STD/DRC
	Optimization Settings:
		Method: QID Calibration.mth.
			Initial Try - Start/End/Step: -20/0/0.5.

	Optimization Results:
	Initial Try

  Optimum value(s): Correlation Coefficient = 0.998; Intercept = -13.63

	Analyte	Mass	Points	DAC	MaxIntensity

		Li	7	41	-14	48983.8
		Mg	24	41	-14.5	62982.5
		In	115	41	-11.5	88243.7
		Ce	140	41	-11	131825
		Pb	208	41	-11	66598.9
		U	238	41	-11.5	107551

KED Mode QID
	Optimization Settings:
		Method: QID Calibration.mth.
			Initial Try - Start/End/Step: -20/0/0.5.

	Optimization Results:
	Initial Try

  Optimum value(s): Correlation Coefficient = 0.991; Intercept = -14.90

	Analyte	Mass	Points	DAC	MaxIntensity

		Li	7	41	-14.5	32456.8
		Mg	24	41	-13.5	70481.4
		In	115	41	-12	130885
		Ce	140	41	-11	132544
		Pb	208	41	-10	57318.8

```
            U       238        41       -10         126494

STD Performance Check
        Optimization Settings:
                Method: STD Performance Check.mth.
                Intensity Criterion: Be 9 > 2000
                Intensity Criterion: In 115 > 40000
                Intensity Criterion: U 238 > 30000
                Intensity Criterion: Bkgd 220 <= 5
                Formula Criterion: Ce++ 70 / Ce 140 <= 0.03
                Formula Criterion: CeO 156 / Ce 140 <= 0.025
                RSD Criterion: Be 9.0122 < 0.05
                RSD Criterion: In 114.904 < 0.05
                RSD Criterion: U 238.05 < 0.05

        Optimization Results:
        Initial Try
                Obtained Intensity (Be 9): 9961.74
                Obtained Intensity (In 115): 88987.18
                Obtained Intensity (U 238): 105363.98
                Obtained Intensity (Bkgd 220): 1.17
                Obtained Formula (Ce++ 70 / Ce 140): 0.012 (=1481.28 / 123241.26)
                Obtained Formula (CeO 156 / Ce 140): 0.024 (=2970.11 / 123241.26)
                Obtained RSD (Be 9): 0.0176
                Obtained RSD (In 115): 0.0102
                Obtained RSD (U 238): 0.0195

[Passed]  Optimum value(s): N/A

End Time: 5/2/2023 12:33:53 PM
```

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Tuesday, May 02, 2023 13:08:02
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				41052	1	Standard
	Cl	**37**		ug/L				6862762	2	Standard
⌈>	**Sc**	**45**		ug/L				744790	1	Standard
|	**Cr**	**52**		ug/L				17916	2	Standard
|	**Cr**	**53**		ug/L				193	12	Standard
⌊	**Mn**	**55**		ug/L				1339	5	Standard
⌈>	**Ge**	**72**		ug/L				52201	1	KED
|	**Ni**	**60**		ug/L				76	13	KED
|	**Ni**	**62**		ug/L				14	65	KED
|	**Cu**	**63**		ug/L				45	7	KED
|	**Cu**	**65**		ug/L				26	4	KED
|	**Zn**	**66**		ug/L				37	19	KED
|	**Zn**	**67**		ug/L				5	33	KED
⌊	**As**	**75**		ug/L				3	30	KED
	Y	**89**		ug/L				349986	1	Standard
	Kr	**83**		ug/L				59	25	Standard
⌈>	**In-1**	**115**		ug/L				11206	0	KED
|	**Cd**	**111**		ug/L				6	8	KED
⌊	**Cd**	**114**		ug/L				6	64	KED
⌈>	**In**	**115**		ug/L				519240	2	Standard
⌊	**Ag**	**107**		ug/L				62	17	Standard
⌈>	**Tb**	**159**		ug/L				1339656	1	Standard
⌊	**Pb**	**208**		ug/L				179	15	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL2
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Tuesday, May 02, 2023 13:12:31
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			41052	40707	2	Standard
	Cl	**37**		ug/L			6862762	6868023	2	Standard
⌈>	**Sc**	**45**		ug/L			744790	724927	2	Standard
|	**Cr**	**52**	**0.500**	ug/L	0.047	9	17916	30509	1	Standard
|	**Cr**	**53**	**0.500**	ug/L	0.013	2	193	1627	0	Standard
⌊	**Mn**	**55**	**0.500**	ug/L	0.026	5	1339	20769	3	Standard
⌈>	**Ge**	**72**		ug/L			52201	50444	1	KED
|	**Ni**	**60**	**0.500**	ug/L	0.032	6	76	1042	5	KED
|	**Ni**	**62**	**0.500**	ug/L	0.059	11	14	161	11	KED
|	**Cu**	**63**	**0.500**	ug/L	0.018	3	45	2861	1	KED
|	**Cu**	**65**	**0.500**	ug/L	0.028	5	26	1472	5	KED
|	**Zn**	**66**	**6.000**	ug/L	0.185	3	37	4652	1	KED
|	**Zn**	**67**	**6.000**	ug/L	0.155	2	5	704	3	KED
⌊	**As**	**75**	**0.200**	ug/L	0.042	21	3	80	20	KED
	Y	**89**		ug/L			349986	352045	1	Standard
	Kr	**83**		ug/L			59	51	13	Standard
⌈>	**In-1**	**115**		ug/L			11206	10603	1	KED
|	**Cd**	**111**	**0.100**	ug/L	0.018	17	6	38	15	KED
⌊	**Cd**	**114**	**0.100**	ug/L	0.014	14	6	90	14	KED
⌈>	**In**	**115**		ug/L			519240	521992	1	Standard
⌊	**Ag**	**107**	**0.200**	ug/L	0.003	1	62	3884	0	Standard
⌈>	**Tb**	**159**		ug/L			1339656	1307960	1	Standard
⌊	**Pb**	**208**	**0.100**	ug/L	0.003	2	179	9994	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL3
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Tuesday, May 02, 2023 13:17:00
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			41052	56420	0	Standard
	Cl	**37**		ug/L			6862762	6789313	2	Standard
⌈>	**Sc**	**45**		ug/L			744790	745757	3	Standard
|	**Cr**	**52**	**10.000**	ug/L	0.372	3	17916	284616	0	Standard
|	**Cr**	**53**	**10.001**	ug/L	0.263	2	193	30655	1	Standard
⌊	**Mn**	**55**	**10.000**	ug/L	0.303	3	1339	398670	0	Standard
⌈>	**Ge**	**72**		ug/L			52201	51456	0	KED
|	**Ni**	**60**	**10.000**	ug/L	0.077	0	76	19615	1	KED
|	**Ni**	**62**	**10.001**	ug/L	0.340	3	14	3131	3	KED
|	**Cu**	**63**	**9.999**	ug/L	0.059	0	45	55232	0	KED
|	**Cu**	**65**	**9.999**	ug/L	0.111	1	26	28556	1	KED
|	**Zn**	**66**	**9.982**	ug/L	0.085	0	37	7835	1	KED
|	**Zn**	**67**	**10.182**	ug/L	0.370	3	5	1279	3	KED
⌊	**As**	**75**	**10.000**	ug/L	0.134	1	3	3851	1	KED
	Y	**89**		ug/L			349986	360621	2	Standard
	Kr	**83**		ug/L			59	55	5	Standard
⌈>	**In-1**	**115**		ug/L			11206	10856	1	KED
|	**Cd**	**111**	**10.000**	ug/L	0.424	4	6	3717	4	KED
⌊	**Cd**	**114**	**10.000**	ug/L	0.357	3	6	9342	4	KED
⌈>	**In**	**115**		ug/L			519240	514693	2	Standard
⌊	**Ag**	**107**	**10.000**	ug/L	0.217	2	62	198974	2	Standard
⌈>	**Tb**	**159**		ug/L			1339656	1329055	0	Standard
⌊	**Pb**	**208**	**10.000**	ug/L	0.155	1	179	979325	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL4
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Tuesday, May 02, 2023 13:21:43
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			41052	57000	0	Standard
	Cl	**37**		ug/L			6862762	6736871	1	Standard
⌈>	**Sc**	**45**		ug/L			744790	749664	1	Standard
|	**Cr**	**52**	**19.901**	ug/L	0.244	1	17916	541576	0	Standard
|	**Cr**	**53**	**19.977**	ug/L	0.466	2	193	61099	1	Standard
⌊	**Mn**	**55**	**19.977**	ug/L	0.370	1	1339	795919	0	Standard
⌈>	**Ge**	**72**		ug/L			52201	50963	1	KED
|	**Ni**	**60**	**19.985**	ug/L	0.345	1	76	38630	0	KED
|	**Ni**	**62**	**20.007**	ug/L	0.794	3	14	6199	3	KED
|	**Cu**	**63**	**19.997**	ug/L	0.398	1	45	109269	1	KED
|	**Cu**	**65**	**19.912**	ug/L	0.192	0	26	55323	2	KED
|	**Zn**	**66**	**20.032**	ug/L	0.201	1	37	15609	0	KED
|	**Zn**	**67**	**20.331**	ug/L	0.159	0	5	2653	1	KED
⌊	**As**	**75**	**20.024**	ug/L	0.134	0	3	7670	0	KED
	Y	**89**		ug/L			349986	368685	1	Standard
	Kr	**83**		ug/L			59	58	22	Standard
⌈>	**In-1**	**115**		ug/L			11206	10685	1	KED
|	**Cd**	**111**	**19.991**	ug/L	0.185	0	6	7295	0	KED
⌊	**Cd**	**114**	**20.119**	ug/L	0.293	1	6	18941	1	KED
⌈>	**In**	**115**		ug/L			519240	513679	1	Standard
⌊	**Ag**	**107**	**19.924**	ug/L	0.606	3	62	389617	2	Standard
⌈>	**Tb**	**159**		ug/L			1339656	1324921	1	Standard
⌊	**Pb**	**208**	**19.962**	ug/L	0.248	1	179	1933754	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL5
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 13:26:36

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			41052	39647	1	Standard
	Cl	**37**		ug/L			6862762	6754087	3	Standard
>	**Sc**	**45**		ug/L			744790	729554	0	Standard
	Cr	**52**	**49.796**	ug/L	0.357	0	17916	1267054	0	Standard
	Cr	**53**	**49.913**	ug/L	0.445	0	193	147039	1	Standard
	Mn	**55**	**49.972**	ug/L	0.344	0	1339	1930633	0	Standard
>	**Ge**	**72**		ug/L			52201	49853	0	KED
	Ni	**60**	**49.817**	ug/L	1.077	2	76	92413	2	KED
	Ni	**62**	**49.762**	ug/L	0.427	0	14	14713	0	KED
	Cu	**63**	**49.781**	ug/L	0.703	1	45	260366	1	KED
	Cu	**65**	**49.661**	ug/L	0.607	1	26	130513	1	KED
	Zn	**66**	**49.705**	ug/L	0.546	1	37	36824	0	KED
	Zn	**67**	**49.433**	ug/L	0.201	0	5	5987	0	KED
	As	**75**	**49.906**	ug/L	0.396	0	3	18523	0	KED
	Y	**89**		ug/L			349986	347798	2	Standard
	Kr	**83**		ug/L			59	62	21	Standard
>	**In-1**	**115**		ug/L			11206	10637	0	KED
	Cd	**111**	**49.791**	ug/L	0.513	1	6	17710	0	KED
	Cd	**114**	**49.660**	ug/L	0.517	1	6	45008	0	KED
>	**In**	**115**		ug/L			519240	501648	1	Standard
	Ag	**107**	**49.599**	ug/L	1.441	2	62	910684	2	Standard
>	**Tb**	**159**		ug/L			1339656	1315700	1	Standard
	Pb	**208**	**49.780**	ug/L	0.801	1	179	4685423	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL6
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Tuesday, May 02, 2023 13:33:08
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			41052	52708	1	Standard
	Cl	**37**		ug/L			6862762	6804754	1	Standard
⌈>	**Sc**	**45**		ug/L			744790	667791	12	Standard
|	**Cr**	**52**	**102.377**	ug/L	14.900	14	17916	2539827	1	Standard
|	**Cr**	**53**	**101.766**	ug/L	14.282	14	193	288049	1	Standard
⌊	**Mn**	**55**	**101.592**	ug/L	11.523	11	1339	3757788	1	Standard
⌈>	**Ge**	**72**		ug/L			52201	49560	1	KED
|	**Ni**	**60**	**99.713**	ug/L	1.485	1	76	182039	0	KED
|	**Ni**	**62**	**99.738**	ug/L	1.964	1	14	29048	2	KED
|	**Cu**	**63**	**99.232**	ug/L	1.890	1	45	502973	1	KED
|	**Cu**	**65**	**99.692**	ug/L	1.881	1	26	257728	0	KED
|	**Zn**	**66**	**99.339**	ug/L	1.189	1	37	71571	1	KED
|	**Zn**	**67**	**99.602**	ug/L	0.414	0	5	11831	1	KED
⌊	**As**	**75**	**99.879**	ug/L	1.298	1	3	36696	0	KED
	Y	**89**		ug/L			349986	327327	11	Standard
	Kr	**83**		ug/L			59	82	8	Standard
⌈>	**In-1**	**115**		ug/L			11206	10633	1	KED
|	**Cd**	**111**	**100.085**	ug/L	1.256	1	6	35678	0	KED
⌊	**Cd**	**114**	**99.871**	ug/L	0.857	0	6	90082	0	KED
⌈>	**In**	**115**		ug/L			519240	461910	11	Standard
⌊	**Ag**	**107**	**101.258**	ug/L	12.666	12	62	1770314	0	Standard
⌈>	**Tb**	**159**		ug/L			1339656	1196263	12	Standard
⌊	**Pb**	**208**	**101.888**	ug/L	14.118	13	179	9197404	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 13:40:21

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			41052	41799	2	Standard
	Cl	**37**		ug/L			6862762	6822899	2	Standard
⌈>	**Sc**	**45**		ug/L			744790	745014	1	Standard
|	**Cr**	**52**	**0.022**	ug/L	0.019	86	17916	18526	2	Standard
|	**Cr**	**53**	**-0.010**	ug/L	0.002	21	193	162	4	Standard
⌊	**Mn**	**55**	**-0.005**	ug/L	0.001	16	1339	1136	1	Standard
⌈>	**Ge**	**72**		ug/L			52201	52447	1	KED
|	**Ni**	**60**	**-0.016**	ug/L	0.005	33	76	46	22	KED
|	**Ni**	**62**	**-0.029**	ug/L	0.013	43	14	5	66	KED
|	**Cu**	**63**	**0.001**	ug/L	0.002	154	45	51	16	KED
|	**Cu**	**65**	**0.003**	ug/L	0.001	23	26	34	5	KED
|	**Zn**	**66**	**-0.003**	ug/L	0.010	340	37	35	21	KED
|	**Zn**	**67**	**0.010**	ug/L	0.018	180	5	6	31	KED
⌊	**As**	**75**	**0.011**	ug/L	0.002	19	3	8	11	KED
	Y	**89**		ug/L			349986	363901	3	Standard
	Kr	**83**		ug/L			59	51	9	Standard
⌈>	**In-1**	**115**		ug/L			11206	11105	0	KED
|	**Cd**	**111**	**-0.003**	ug/L	0.006	194	6	5	47	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.003	95	6	3	94	KED
⌈>	**In**	**115**		ug/L			519240	517699	2	Standard
⌊	**Ag**	**107**	**0.004**	ug/L	0.000	1	62	150	1	Standard
⌈>	**Tb**	**159**		ug/L			1339656	1343120	1	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	21	179	315	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 13:47:38
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				42077	2	Standard
	Cl	**37**		ug/L				6747174	2	Standard
⎡>	**Sc**	**45**		ug/L				731768	2	Standard
⎢	**Cr**	**52**		ug/L				18236	1	Standard
⎢	**Cr**	**53**		ug/L				187	5	Standard
⎣	**Mn**	**55**		ug/L				1693	3	Standard
⎡>	**Ge**	**72**		ug/L				52881	1	KED
⎢	**Ni**	**60**		ug/L				58	21	KED
⎢	**Ni**	**62**		ug/L				7	50	KED
⎢	**Cu**	**63**		ug/L				56	13	KED
⎢	**Cu**	**65**		ug/L				28	6	KED
⎢	**Zn**	**66**		ug/L				29	7	KED
⎢	**Zn**	**67**		ug/L				3	124	KED
⎣	**As**	**75**		ug/L				5	18	KED
	Y	**89**		ug/L				361102	2	Standard
	Kr	**83**		ug/L				70	16	Standard
⎡>	**In-1**	**115**		ug/L				11213	2	KED
⎢	**Cd**	**111**		ug/L				2	57	KED
⎣	**Cd**	**114**		ug/L				3	50	KED
⎡>	**In**	**115**		ug/L				510451	2	Standard
⎣	**Ag**	**107**		ug/L				76	6	Standard
⎡>	**Tb**	**159**		ug/L				1318959	1	Standard
⎣	**Pb**	**208**		ug/L				239	12	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL2
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 13:52:07
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			42077	40546	0	Standard
	Cl	**37**		ug/L			6747174	6746097	2	Standard
⌈>	**Sc**	**45**		ug/L			731768	691788	4	Standard
|	**Cr**	**52**	**0.500**	ug/L	0.038	7	18236	30858	3	Standard
|	**Cr**	**53**	**0.500**	ug/L	0.020	4	187	1689	3	Standard
⌊	**Mn**	**55**	**0.500**	ug/L	0.030	5	1693	20975	2	Standard
⌈>	**Ge**	**72**		ug/L			52881	52144	0	KED
|	**Ni**	**60**	**0.500**	ug/L	0.021	4	58	1032	4	KED
|	**Ni**	**62**	**0.500**	ug/L	0.037	7	7	159	7	KED
|	**Cu**	**63**	**0.500**	ug/L	0.006	1	56	3026	0	KED
|	**Cu**	**65**	**0.500**	ug/L	0.013	2	28	1520	3	KED
|	**Zn**	**66**	**6.000**	ug/L	0.076	1	29	4762	1	KED
|	**Zn**	**67**	**6.000**	ug/L	0.316	5	3	732	5	KED
⌊	**As**	**75**	**0.200**	ug/L	0.020	10	5	76	8	KED
	Y	**89**		ug/L			361102	342641	5	Standard
	Kr	**83**		ug/L			70	73	23	Standard
⌈>	**In-1**	**115**		ug/L			11213	10899	1	KED
|	**Cd**	**111**	**0.100**	ug/L	0.009	9	2	39	9	KED
⌊	**Cd**	**114**	**0.100**	ug/L	0.040	39	3	109	37	KED
⌈>	**In**	**115**		ug/L			510451	472311	4	Standard
⌊	**Ag**	**107**	**0.200**	ug/L	0.003	1	76	3891	3	Standard
⌈>	**Tb**	**159**		ug/L			1318959	1236206	5	Standard
⌊	**Pb**	**208**	**0.100**	ug/L	0.005	5	239	10142	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL3
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 13:56:36
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			42077	57110	2	Standard
	Cl	**37**		ug/L			6747174	6789692	3	Standard
⌈>	**Sc**	**45**		ug/L			731768	731452	2	Standard
|	**Cr**	**52**	**9.998**	ug/L	0.141	1	18236	289508	1	Standard
|	**Cr**	**53**	**9.999**	ug/L	0.141	1	187	30788	1	Standard
⌊	**Mn**	**55**	**10.000**	ug/L	0.179	1	1693	406020	1	Standard
⌈>	**Ge**	**72**		ug/L			52881	52186	1	KED
|	**Ni**	**60**	**10.000**	ug/L	0.140	1	58	19770	0	KED
|	**Ni**	**62**	**10.001**	ug/L	0.221	2	7	3131	1	KED
|	**Cu**	**63**	**9.998**	ug/L	0.126	1	56	55656	1	KED
|	**Cu**	**65**	**9.999**	ug/L	0.071	0	28	28477	2	KED
|	**Zn**	**66**	**10.012**	ug/L	0.093	0	29	7958	0	KED
|	**Zn**	**67**	**10.170**	ug/L	0.175	1	3	1301	2	KED
⌊	**As**	**75**	**10.000**	ug/L	0.078	0	5	3942	0	KED
	Y	**89**		ug/L			361102	361203	2	Standard
	Kr	**83**		ug/L			70	58	9	Standard
⌈>	**In-1**	**115**		ug/L			11213	10842	1	KED
|	**Cd**	**111**	**10.000**	ug/L	0.265	2	2	3838	1	KED
⌊	**Cd**	**114**	**10.000**	ug/L	0.200	2	3	9757	0	KED
⌈>	**In**	**115**		ug/L			510451	511490	2	Standard
⌊	**Ag**	**107**	**10.000**	ug/L	0.177	1	76	195401	1	Standard
⌈>	**Tb**	**159**		ug/L			1318959	1335581	1	Standard
⌊	**Pb**	**208**	**10.000**	ug/L	0.166	1	239	982416	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL4
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 14:01:18
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			42077	56073	1	Standard
	Cl	**37**		ug/L			6747174	6840212	1	Standard
⌈>	**Sc**	**45**		ug/L			731768	736117	1	Standard
|	**Cr**	**52**	**19.755**	ug/L	0.337	1	18236	532763	1	Standard
|	**Cr**	**53**	**19.899**	ug/L	0.219	1	187	60274	1	Standard
⌊	**Mn**	**55**	**19.863**	ug/L	0.297	1	1693	788845	3	Standard
⌈>	**Ge**	**72**		ug/L			52881	51507	0	KED
|	**Ni**	**60**	**19.970**	ug/L	0.360	1	58	38680	2	KED
|	**Ni**	**62**	**20.101**	ug/L	0.828	4	7	6330	3	KED
|	**Cu**	**63**	**19.937**	ug/L	0.413	2	56	108115	1	KED
|	**Cu**	**65**	**19.927**	ug/L	0.140	0	28	55176	1	KED
|	**Zn**	**66**	**20.009**	ug/L	0.319	1	29	15692	1	KED
|	**Zn**	**67**	**20.135**	ug/L	0.378	1	3	2590	1	KED
⌊	**As**	**75**	**19.942**	ug/L	0.156	0	5	7666	0	KED
	Y	**89**		ug/L			361102	364524	0	Standard
	Kr	**83**		ug/L			70	75	8	Standard
⌈>	**In-1**	**115**		ug/L			11213	11079	2	KED
|	**Cd**	**111**	**19.801**	ug/L	0.740	3	2	7464	1	KED
⌊	**Cd**	**114**	**19.754**	ug/L	0.828	4	3	18759	1	KED
⌈>	**In**	**115**		ug/L			510451	508421	1	Standard
⌊	**Ag**	**107**	**19.938**	ug/L	0.886	4	76	382372	3	Standard
⌈>	**Tb**	**159**		ug/L			1318959	1326120	0	Standard
⌊	**Pb**	**208**	**19.938**	ug/L	0.201	1	239	1921219	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL5
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 14:06:11
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			42077	41136	1	Standard
	Cl	**37**		ug/L			6747174	6939319	2	Standard
⌈>	**Sc**	**45**		ug/L			731768	725257	0	Standard
|	**Cr**	**52**	**49.717**	ug/L	0.782	1	18236	1258648	1	Standard
|	**Cr**	**53**	**49.708**	ug/L	1.202	2	187	143883	2	Standard
⌊	**Mn**	**55**	**49.646**	ug/L	0.626	1	1693	1873508	1	Standard
⌈>	**Ge**	**72**		ug/L			52881	50008	0	KED
|	**Ni**	**60**	**49.831**	ug/L	0.303	0	58	92069	0	KED
|	**Ni**	**62**	**49.758**	ug/L	1.257	2	7	14850	2	KED
|	**Cu**	**63**	**49.748**	ug/L	0.823	1	56	255435	1	KED
|	**Cu**	**65**	**49.765**	ug/L	0.400	0	28	130675	0	KED
|	**Zn**	**66**	**49.687**	ug/L	0.624	1	29	36718	0	KED
|	**Zn**	**67**	**49.670**	ug/L	0.413	0	3	6014	0	KED
⌊	**As**	**75**	**49.915**	ug/L	0.099	0	5	18466	0	KED
	Y	**89**		ug/L			361102	361029	1	Standard
	Kr	**83**		ug/L			70	80	24	Standard
⌈>	**In-1**	**115**		ug/L			11213	10603	1	KED
|	**Cd**	**111**	**49.920**	ug/L	0.621	1	2	17875	1	KED
⌊	**Cd**	**114**	**49.892**	ug/L	0.373	0	3	44892	1	KED
⌈>	**In**	**115**		ug/L			510451	490489	1	Standard
⌊	**Ag**	**107**	**49.710**	ug/L	0.477	0	76	893991	0	Standard
⌈>	**Tb**	**159**		ug/L			1318959	1294467	1	Standard
⌊	**Pb**	**208**	**49.838**	ug/L	0.691	1	239	4612275	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL6
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 14:12:44
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			42077	52472	1	Standard
	Cl	**37**		ug/L			6747174	6947027	2	Standard
⌈>	**Sc**	**45**		ug/L			731768	712789	0	Standard
|	**Cr**	**52**	**100.770**	ug/L	0.759	0	18236	2554116	1	Standard
|	**Cr**	**53**	**100.130**	ug/L	2.001	1	187	285888	1	Standard
⌊	**Mn**	**55**	**100.357**	ug/L	2.076	2	1693	3765051	1	Standard
⌈>	**Ge**	**72**		ug/L			52881	50088	1	KED
|	**Ni**	**60**	**99.612**	ug/L	1.205	1	58	181907	0	KED
|	**Ni**	**62**	**99.730**	ug/L	1.704	1	7	29535	1	KED
|	**Cu**	**63**	**99.484**	ug/L	1.460	1	56	502846	0	KED
|	**Cu**	**65**	**99.529**	ug/L	1.150	1	28	257683	1	KED
|	**Zn**	**66**	**99.529**	ug/L	0.934	0	29	72514	1	KED
|	**Zn**	**67**	**99.282**	ug/L	1.746	1	3	11757	0	KED
⌊	**As**	**75**	**100.058**	ug/L	1.741	1	5	37134	0	KED
	Y	**89**		ug/L			361102	354333	1	Standard
	Kr	**83**		ug/L			70	89	17	Standard
⌈>	**In-1**	**115**		ug/L			11213	10529	1	KED
|	**Cd**	**111**	**99.788**	ug/L	2.060	2	2	35224	0	KED
⌊	**Cd**	**114**	**100.042**	ug/L	1.013	1	3	89502	0	KED
⌈>	**In**	**115**		ug/L			510451	480950	3	Standard
⌊	**Ag**	**107**	**99.896**	ug/L	1.598	1	76	1755185	2	Standard
⌈>	**Tb**	**159**		ug/L			1318959	1260153	1	Standard
⌊	**Pb**	**208**	**100.241**	ug/L	1.773	1	239	9103503	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 14:19:57
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			42077	42910	1	Standard
	Cl	**37**		ug/L			6747174	6933874	2	Standard
⌈>	**Sc**	**45**		ug/L			731768	729780	0	Standard
|	**Cr**	**52**	**0.001**	ug/L	0.004	298	18236	18223	1	Standard
|	**Cr**	**53**	**-0.005**	ug/L	0.003	71	187	173	6	Standard
⌊	**Mn**	**55**	**-0.004**	ug/L	0.001	29	1693	1522	3	Standard
⌈>	**Ge**	**72**		ug/L			52881	52259	0	KED
|	**Ni**	**60**	**0.030**	ug/L	0.027	89	58	114	44	KED
|	**Ni**	**62**	**0.029**	ug/L	0.035	120	7	16	65	KED
|	**Cu**	**63**	**0.016**	ug/L	0.029	182	56	139	109	KED
|	**Cu**	**65**	**0.015**	ug/L	0.031	204	28	69	120	KED
|	**Zn**	**66**	**0.018**	ug/L	0.028	154	29	42	49	KED
|	**Zn**	**67**	**0.067**	ug/L	0.016	23	3	11	16	KED
⌊	**As**	**75**	**0.027**	ug/L	0.033	123	5	15	81	KED
	Y	**89**		ug/L			361102	358796	3	Standard
	Kr	**83**		ug/L			70	66	17	Standard
⌈>	**In-1**	**115**		ug/L			11213	11206	2	KED
|	**Cd**	**111**	**-0.001**	ug/L	0.005	658	2	2	78	KED
⌊	**Cd**	**114**	**0.005**	ug/L	0.003	56	3	8	33	KED
⌈>	**In**	**115**		ug/L			510451	506583	0	Standard
⌊	**Ag**	**107**	**0.003**	ug/L	0.000	15	76	133	5	Standard
⌈>	**Tb**	**159**		ug/L			1318959	1291739	0	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	41	239	320	10	Standard

Sample Information

Sample Date/Time: Tuesday, May 02, 2023 14:12:44
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.m
Mass Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Conditions File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223.cal

Calibration

Analyte	Mass	**r Corr Coef**	Slope	Std 1 Conc	Std 2 Conc	Std 3 Conc	Std 4 Conc	Std 5 Conc
C	13							
Cl	37							
Sc	45							
Cr	52	**0.9999**	0.035	0.50	10	20	50	100
Cr	53	**1.0000**	0.004	0.50	10	20	50	100
Mn	55	**0.9999**	0.053	0.50	10	20	50	100
Ge	72							
Ni	60	**1.0000**	0.036	0.50	10	20	50	100
Ni	62	**1.0000**	0.006	0.50	10	20	50	100
Cu	63	**0.9999**	0.101	0.50	10	20	50	100
Cu	65	**0.9999**	0.052	0.50	10	20	50	100
Zn	66	**0.9999**	0.015	6.00	10	20	50	100
Zn	67	**0.9999**	0.002	6.00	10	20	50	100
As	75	**1.0000**	0.007	0.20	10	20	50	100
Y	89							
Kr	83							
In-1	115							
Cd	111	**1.0000**	0.034	0.10	10	20	50	100
Cd	114	**1.0000**	0.085	0.10	10	20	50	100
In	115							
Ag	107	**1.0000**	0.037	0.20	10	20	50	100
Tb	159							
Pb	208	**1.0000**	0.072	0.10	10	20	50	100

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-ICV1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 14:30:08
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			42077	50649	0	Standard
	Cl	**37**		ug/L			6747174	6975719	1	Standard
⌈>	**Sc**	**45**		ug/L			731768	728760	1	Standard
|	**Cr**	**52**	**50.629**	ug/L	0.703	1	18236	1321081	2	Standard
|	**Cr**	**53**	**51.490**	ug/L	0.357	0	187	150412	1	Standard
⌊	**Mn**	**55**	**52.556**	ug/L	1.171	2	1693	2017110	3	Standard
⌈>	**Ge**	**72**		ug/L			52881	51738	1	KED
|	**Ni**	**60**	**52.295**	ug/L	0.933	1	58	98674	0	KED
|	**Ni**	**62**	**52.344**	ug/L	1.075	2	7	16017	1	KED
|	**Cu**	**63**	**52.854**	ug/L	0.832	1	56	275996	0	KED
|	**Cu**	**65**	**51.970**	ug/L	0.537	1	28	138999	0	KED
|	**Zn**	**66**	**50.401**	ug/L	0.566	1	29	37946	1	KED
|	**Zn**	**67**	**52.618**	ug/L	2.262	4	3	6438	3	KED
⌊	**As**	**75**	**48.927**	ug/L	0.984	2	5	18761	1	KED
	Y	**89**		ug/L			361102	350751	1	Standard
	Kr	**83**		ug/L			70	73	12	Standard
⌈>	**In-1**	**115**		ug/L			11213	11303	2	KED
|	**Cd**	**111**	**50.207**	ug/L	1.486	2	2	19021	0	KED
⌊	**Cd**	**114**	**50.151**	ug/L	1.529	3	3	48149	1	KED
⌈>	**In**	**115**		ug/L			510451	499264	0	Standard
⌊	**Ag**	**107**	**52.269**	ug/L	1.028	1	76	953483	1	Standard
⌈>	**Tb**	**159**		ug/L			1318959	1286516	2	Standard
⌊	**Pb**	**208**	**51.470**	ug/L	1.448	2	239	4770356	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-ICB1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 14:37:21
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			42077	43843	1	Standard
	Cl	**37**		ug/L			6747174	6920232	1	Standard
⎡>	**Sc**	**45**		ug/L			731768	727210	1	Standard
⎢	**Cr**	**52**	**0.011**	ug/L	0.004	36	18236	18407	1	Standard
⎢	**Cr**	**53**	**-0.009**	ug/L	0.003	28	187	159	5	Standard
⎣	**Mn**	**55**	**-0.009**	ug/L	0.002	20	1693	1348	5	Standard
⎡>	**Ge**	**72**		ug/L			52881	52631	1	KED
⎢	**Ni**	**60**	**0.022**	ug/L	0.012	56	58	100	22	KED
⎢	**Ni**	**62**	**0.027**	ug/L	0.020	72	7	15	36	KED
⎢	**Cu**	**63**	**0.003**	ug/L	0.006	234	56	70	46	KED
⎢	**Cu**	**65**	**0.002**	ug/L	0.006	423	28	32	52	KED
⎢	**Zn**	**66**	**0.010**	ug/L	0.014	135	29	36	28	KED
⎢	**Zn**	**67**	**0.041**	ug/L	0.010	23	3	8	13	KED
⎣	**As**	**75**	**0.007**	ug/L	0.009	124	5	8	40	KED
	Y	**89**		ug/L			361102	352406	3	Standard
	Kr	**83**		ug/L			70	88	10	Standard
⎡>	**In-1**	**115**		ug/L			11213	11501	0	KED
⎢	**Cd**	**111**	**0.003**	ug/L	0.007	228	2	4	66	KED
⎣	**Cd**	**114**	**0.002**	ug/L	0.002	110	3	5	35	KED
⎡>	**In**	**115**		ug/L			510451	499318	1	Standard
⎣	**Ag**	**107**	**0.003**	ug/L	0.001	44	76	126	17	Standard
⎡>	**Tb**	**159**		ug/L			1318959	1301409	2	Standard
⎣	**Pb**	**208**	**0.001**	ug/L	0.000	17	239	323	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 14:42:45
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			42077	41846	2	Standard
	Cl	**37**		ug/L			6747174	7017038	2	Standard
⎡>	**Sc**	**45**		ug/L			731768	723357	1	Standard
⎢	**Cr**	**52**	**49.056**	ug/L	0.429	0	18236	1271050	1	Standard
⎢	**Cr**	**53**	**50.027**	ug/L	0.497	0	187	145058	1	Standard
⎣	**Mn**	**55**	**49.844**	ug/L	0.594	1	1693	1898456	0	Standard
⎡>	**Ge**	**72**		ug/L			52881	51168	0	KED
⎢	**Ni**	**60**	**49.395**	ug/L	0.540	1	58	92191	1	KED
⎢	**Ni**	**62**	**49.216**	ug/L	0.459	0	7	14895	0	KED
⎢	**Cu**	**63**	**50.261**	ug/L	0.349	0	56	259602	0	KED
⎢	**Cu**	**65**	**50.259**	ug/L	0.334	0	28	132951	0	KED
⎢	**Zn**	**66**	**50.239**	ug/L	0.684	1	29	37408	1	KED
⎢	**Zn**	**67**	**50.993**	ug/L	1.108	2	3	6172	2	KED
⎣	**As**	**75**	**49.718**	ug/L	0.476	0	5	18856	0	KED
	Y	**89**		ug/L			361102	357447	1	Standard
	Kr	**83**		ug/L			70	105	15	Standard
⎡>	**In-1**	**115**		ug/L			11213	10744	1	KED
⎢	**Cd**	**111**	**49.685**	ug/L	0.283	0	2	17901	0	KED
⎣	**Cd**	**114**	**50.173**	ug/L	0.571	1	3	45807	0	KED
⎡>	**In**	**115**		ug/L			510451	497121	1	Standard
⎣	**Ag**	**107**	**49.855**	ug/L	1.561	3	76	905506	2	Standard
⎡>	**Tb**	**159**		ug/L			1318959	1275518	2	Standard
⎣	**Pb**	**208**	**50.490**	ug/L	1.559	3	239	4639658	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 14:49:59
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			42077	43021	1	Standard
	Cl	**37**		ug/L			6747174	6974080	2	Standard
⎡>	**Sc**	**45**		ug/L			731768	726667	0	Standard
⎢	**Cr**	**52**	**0.005**	ug/L	0.024	470	18236	18242	3	Standard
⎢	**Cr**	**53**	**-0.010**	ug/L	0.005	45	187	157	8	Standard
⎣	**Mn**	**55**	**-0.017**	ug/L	0.001	4	1693	1032	2	Standard
⎡>	**Ge**	**72**		ug/L			52881	52264	1	KED
⎢	**Ni**	**60**	**-0.006**	ug/L	0.004	73	58	46	19	KED
⎢	**Ni**	**62**	**0.011**	ug/L	0.025	237	7	10	71	KED
⎢	**Cu**	**63**	**0.001**	ug/L	0.003	233	56	62	23	KED
⎢	**Cu**	**65**	**-0.002**	ug/L	0.002	99	28	22	22	KED
⎢	**Zn**	**66**	**0.006**	ug/L	0.004	57	29	33	8	KED
⎢	**Zn**	**67**	**0.026**	ug/L	0.024	92	3	6	45	KED
⎣	**As**	**75**	**0.005**	ug/L	0.004	93	5	7	24	KED
	Y	**89**		ug/L			361102	354877	0	Standard
	Kr	**83**		ug/L			70	83	15	Standard
⎡>	**In-1**	**115**		ug/L			11213	10974	0	KED
⎢	**Cd**	**111**	**0.011**	ug/L	0.003	24	2	6	14	KED
⎣	**Cd**	**114**	**0.002**	ug/L	0.005	238	3	5	89	KED
⎡>	**In**	**115**		ug/L			510451	503778	2	Standard
⎣	**Ag**	**107**	**0.002**	ug/L	0.001	29	76	120	10	Standard
⎡>	**Tb**	**159**		ug/L			1318959	1289588	2	Standard
⎣	**Pb**	**208**	**0.001**	ug/L	0.000	26	239	292	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CRL1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 14:58:48

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			42077	54440	2	Standard
	Cl	**37**		ug/L			6747174	6915863	2	Standard
⌈>	**Sc**	**45**		ug/L			731768	722267	0	Standard
|	**Cr**	**52**	**0.521**	ug/L	0.015	2	18236	31283	2	Standard
|	**Cr**	**53**	**0.498**	ug/L	0.016	3	187	1625	3	Standard
⌊	**Mn**	**55**	**0.479**	ug/L	0.014	2	1693	19866	3	Standard
⌈>	**Ge**	**72**		ug/L			52881	53016	1	KED
|	**Ni**	**60**	**0.452**	ug/L	0.010	2	58	932	3	KED
|	**Ni**	**62**	**0.511**	ug/L	0.034	6	7	167	4	KED
|	**Cu**	**63**	**0.903**	ug/L	0.026	2	56	4889	1	KED
|	**Cu**	**65**	**0.933**	ug/L	0.037	3	28	2584	3	KED
|	**Zn**	**66**	**6.050**	ug/L	0.119	1	29	4692	0	KED
|	**Zn**	**67**	**5.771**	ug/L	0.283	4	3	726	4	KED
⌊	**As**	**75**	**0.193**	ug/L	0.017	8	5	81	9	KED
	Y	**89**		ug/L			361102	357576	1	Standard
	Kr	**83**		ug/L			70	100	3	Standard
⌈>	**In-1**	**115**		ug/L			11213	11072	1	KED
|	**Cd**	**111**	**0.104**	ug/L	0.015	14	2	41	11	KED
⌊	**Cd**	**114**	**0.099**	ug/L	0.007	7	3	96	7	KED
⌈>	**In**	**115**		ug/L			510451	510169	2	Standard
⌊	**Ag**	**107**	**0.205**	ug/L	0.017	8	76	3887	6	Standard
⌈>	**Tb**	**159**		ug/L			1318959	1286408	1	Standard
⌊	**Pb**	**208**	**0.103**	ug/L	0.003	3	239	9794	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CRL1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 15:04:05
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			42077	41609	1	Standard
	Cl	**37**		ug/L			6747174	6871265	1	Standard
⌈>	**Sc**	**45**		ug/L			731768	714277	2	Standard
|	**Cr**	**52**	**0.518**	ug/L	0.012	2	18236	30849	2	Standard
|	**Cr**	**53**	**0.521**	ug/L	0.004	0	187	1674	2	Standard
⌊	**Mn**	**55**	**0.505**	ug/L	0.003	0	1693	20630	2	Standard
⌈>	**Ge**	**72**		ug/L			52881	51683	1	KED
|	**Ni**	**60**	**0.512**	ug/L	0.038	7	58	1021	6	KED
|	**Ni**	**62**	**0.558**	ug/L	0.074	13	7	177	11	KED
|	**Cu**	**63**	**0.556**	ug/L	0.014	2	56	2956	1	KED
|	**Cu**	**65**	**0.557**	ug/L	0.024	4	28	1516	3	KED
|	**Zn**	**66**	**6.269**	ug/L	0.058	0	29	4740	1	KED
|	**Zn**	**67**	**6.007**	ug/L	0.336	5	3	737	5	KED
⌊	**As**	**75**	**0.215**	ug/L	0.039	18	5	87	17	KED
	Y	**89**		ug/L			361102	354921	4	Standard
	Kr	**83**		ug/L			70	97	7	Standard
⌈>	**In-1**	**115**		ug/L			11213	10778	1	KED
|	**Cd**	**111**	**0.116**	ug/L	0.012	9	2	44	9	KED
⌊	**Cd**	**114**	**0.106**	ug/L	0.026	24	3	100	24	KED
⌈>	**In**	**115**		ug/L			510451	495734	1	Standard
⌊	**Ag**	**107**	**0.216**	ug/L	0.010	4	76	3989	3	Standard
⌈>	**Tb**	**159**		ug/L			1318959	1274951	2	Standard
⌊	**Pb**	**208**	**0.105**	ug/L	0.002	2	239	9882	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IFA1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 15:08:34
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			42077	171883	0	Standard
	Cl	**37**		ug/L			6747174	13301432	5	Standard
⌈>	**Sc**	**45**		ug/L			731768	719287	1	Standard
|	**Cr**	**52**	**0.671**	ug/L	0.035	5	18236	34974	3	Standard
|	**Cr**	**53**	**4.459**	ug/L	0.088	1	187	13025	3	Standard
⌊	**Mn**	**55**	**0.101**	ug/L	0.002	1	1693	5505	2	Standard
⌈>	**Ge**	**72**		ug/L			52881	45089	0	KED
|	**Ni**	**60**	**0.098**	ug/L	0.014	13	58	211	10	KED
|	**Ni**	**62**	**0.211**	ug/L	0.029	13	7	62	12	KED
|	**Cu**	**63**	**0.050**	ug/L	0.003	6	56	276	6	KED
|	**Cu**	**65**	**0.053**	ug/L	0.008	15	28	148	13	KED
|	**Zn**	**66**	**0.497**	ug/L	0.061	12	29	350	10	KED
|	**Zn**	**67**	**0.552**	ug/L	0.014	2	3	61	1	KED
⌊	**As**	**75**	**0.037**	ug/L	0.002	5	5	16	3	KED
	Y	**89**		ug/L			361102	324899	3	Standard
	Kr	**83**		ug/L			70	165	3	Standard
⌈>	**In-1**	**115**		ug/L			11213	9712	1	KED
|	**Cd**	**111**	**0.096**	ug/L	0.028	29	2	33	27	KED
⌊	**Cd**	**114**	**0.058**	ug/L	0.013	22	3	51	21	KED
⌈>	**In**	**115**		ug/L			510451	485143	2	Standard
⌊	**Ag**	**107**	**0.015**	ug/L	0.001	7	76	337	4	Standard
⌈>	**Tb**	**159**		ug/L			1318959	1217565	1	Standard
⌊	**Pb**	**208**	**0.037**	ug/L	0.002	5	239	3506	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IFB1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 15:13:03
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			42077	167575	1	Standard
	Cl	**37**		ug/L			6747174	13335838	3	Standard
⎡>	**Sc**	**45**		ug/L			731768	719975	1	Standard
⎢	**Cr**	**52**	**19.543**	ug/L	0.265	1	18236	514711	0	Standard
⎢	**Cr**	**53**	**23.879**	ug/L	0.568	2	187	69003	2	Standard
⎣	**Mn**	**55**	**19.494**	ug/L	0.392	2	1693	739940	0	Standard
⎡>	**Ge**	**72**		ug/L			52881	43882	0	KED
⎢	**Ni**	**60**	**20.131**	ug/L	0.413	2	58	32248	1	KED
⎢	**Ni**	**62**	**20.584**	ug/L	0.181	0	7	5346	0	KED
⎢	**Cu**	**63**	**20.099**	ug/L	0.410	2	56	89049	1	KED
⎢	**Cu**	**65**	**20.164**	ug/L	0.143	0	28	45760	1	KED
⎢	**Zn**	**66**	**18.958**	ug/L	0.033	0	29	12121	0	KED
⎢	**Zn**	**67**	**18.252**	ug/L	0.765	4	3	1895	3	KED
⎣	**As**	**75**	**19.382**	ug/L	0.255	1	5	6307	1	KED
	Y	**89**		ug/L			361102	330165	0	Standard
	Kr	**83**		ug/L			70	154	7	Standard
⎡>	**In-1**	**115**		ug/L			11213	9465	2	KED
⎢	**Cd**	**111**	**19.617**	ug/L	0.211	1	2	6227	1	KED
⎣	**Cd**	**114**	**19.821**	ug/L	0.054	0	3	15946	2	KED
⎡>	**In**	**115**		ug/L			510451	502583	2	Standard
⎣	**Ag**	**107**	**18.302**	ug/L	0.662	3	76	335994	1	Standard
⎡>	**Tb**	**159**		ug/L			1318959	1219299	1	Standard
⎣	**Pb**	**208**	**0.020**	ug/L	0.001	5	239	2011	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-HCV1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 15:18:06
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			42077	49735	1	Standard
	Cl	**37**		ug/L			6747174	6768206	3	Standard
⌈>	**Sc**	**45**		ug/L			731768	691376	2	Standard
|	**Cr**	**52**	**194.213**	ug/L	4.027	2	18236	4756985	0	Standard
|	**Cr**	**53**	**196.208**	ug/L	2.392	1	187	543131	1	Standard
⌊	**Mn**	**55**	**196.261**	ug/L	4.399	2	1693	7138417	1	Standard
⌈>	**Ge**	**72**		ug/L			52881	42820	1	KED
|	**Ni**	**60**	**202.666**	ug/L	1.824	0	58	316365	0	KED
|	**Ni**	**62**	**200.971**	ug/L	3.040	1	7	50873	0	KED
|	**Cu**	**63**	**200.082**	ug/L	3.673	1	56	864497	0	KED
|	**Cu**	**65**	**199.518**	ug/L	3.473	1	28	441523	0	KED
|	**Zn**	**66**	**195.526**	ug/L	2.316	1	29	121754	0	KED
|	**Zn**	**67**	**195.149**	ug/L	3.066	1	3	19755	0	KED
⌊	**As**	**75**	**202.383**	ug/L	3.029	1	5	64211	0	KED
	Y	**89**		ug/L			361102	322742	0	Standard
	Kr	**83**		ug/L			70	156	9	Standard
⌈>	**In-1**	**115**		ug/L			11213	9411	3	KED
|	**Cd**	**111**	**200.656**	ug/L	5.436	2	2	63277	1	KED
⌊	**Cd**	**114**	**200.293**	ug/L	8.803	4	3	160007	0	KED
⌈>	**In**	**115**		ug/L			510451	477270	3	Standard
⌊	**Ag**	**107**	**189.340**	ug/L	4.920	2	76	3300387	2	Standard
⌈>	**Tb**	**159**		ug/L			1318959	1186633	1	Standard
⌊	**Pb**	**208**	**211.895**	ug/L	2.971	1	239	18119477	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-HCV2
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 15:22:35
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			42077	52515	0	Standard
	Cl	**37**		ug/L			6747174	6732124	3	Standard
⌈>	**Sc**	**45**		ug/L			731768	671835	1	Standard
|	**Cr**	**52**	**303.419**	ug/L	2.203	0	18236	7214785	1	Standard
|	**Cr**	**53**	**300.250**	ug/L	3.401	1	187	807761	2	Standard
⌊	**Mn**	**55**	**299.216**	ug/L	3.608	1	1693	10578989	2	Standard
⌈>	**Ge**	**72**		ug/L			52881	42369	1	KED
|	**Ni**	**60**	**304.830**	ug/L	6.834	2	58	470748	0	KED
|	**Ni**	**62**	**303.177**	ug/L	4.967	1	7	75935	0	KED
|	**Cu**	**63**	**295.198**	ug/L	3.318	1	56	1262137	0	KED
|	**Cu**	**65**	**296.309**	ug/L	4.935	1	28	648814	0	KED
|	**Zn**	**66**	**285.507**	ug/L	7.567	2	29	175877	1	KED
|	**Zn**	**67**	**288.547**	ug/L	0.774	0	3	28906	1	KED
⌊	**As**	**75**	**303.738**	ug/L	3.479	1	5	95355	0	KED
	Y	**89**		ug/L			361102	310500	2	Standard
	Kr	**83**		ug/L			70	246	7	Standard
⌈>	**In-1**	**115**		ug/L			11213	9348	1	KED
|	**Cd**	**111**	**293.019**	ug/L	2.044	0	2	91843	0	KED
⌊	**Cd**	**114**	**292.386**	ug/L	6.045	2	3	232221	0	KED
⌈>	**In**	**115**		ug/L			510451	451206	2	Standard
⌊	**Ag**	**107**	**293.213**	ug/L	1.622	0	76	4834070	2	Standard
⌈>	**Tb**	**159**		ug/L			1318959	1090213	1	Standard
⌊	**Pb**	**208**	**337.350**	ug/L	3.206	0	239	26506699	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL2
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 15:31:12
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			42077	51674	2	Standard
	Cl	**37**		ug/L			6747174	6950465	3	Standard
⌈>	**Sc**	**45**		ug/L			731768	725515	2	Standard
|	**Cr**	**52**	**0.100**	ug/L	0.163	162	18236	20698	22	Standard
|	**Cr**	**53**	**0.131**	ug/L	0.160	121	187	573	83	Standard
⌊	**Mn**	**55**	**0.092**	ug/L	0.162	175	1693	5279	120	Standard
⌈>	**Ge**	**72**		ug/L			52881	50152	0	KED
|	**Ni**	**60**	**-0.009**	ug/L	0.005	50	58	38	22	KED
|	**Ni**	**62**	**0.016**	ug/L	0.004	24	7	12	9	KED
|	**Cu**	**63**	**0.003**	ug/L	0.003	91	56	68	20	KED
|	**Cu**	**65**	**0.004**	ug/L	0.002	65	28	36	16	KED
|	**Zn**	**66**	**0.025**	ug/L	0.007	28	29	45	11	KED
|	**Zn**	**67**	**0.028**	ug/L	0.037	131	3	6	69	KED
⌊	**As**	**75**	**0.014**	ug/L	0.002	13	5	10	7	KED
	Y	**89**		ug/L			361102	348089	0	Standard
	Kr	**83**		ug/L			70	75	15	Standard
⌈>	**In-1**	**115**		ug/L			11213	10880	1	KED
|	**Cd**	**111**	**0.009**	ug/L	0.008	90	2	6	48	KED
⌊	**Cd**	**114**	**0.008**	ug/L	0.006	67	3	11	45	KED
⌈>	**In**	**115**		ug/L			510451	509125	1	Standard
⌊	**Ag**	**107**	**0.113**	ug/L	0.146	129	76	2187	125	Standard
⌈>	**Tb**	**159**		ug/L			1318959	1292453	0	Standard
⌊	**Pb**	**208**	**0.113**	ug/L	0.135	119	239	10751	117	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL3
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 15:37:35
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			42077	51870	1	Standard
	Cl	**37**		ug/L			6747174	6898355	1	Standard
⎡>	**Sc**	**45**		ug/L			731768	735776	0	Standard
⎢	**Cr**	**52**	**-0.011**	ug/L	0.006	51	18236	18044	1	Standard
⎢	**Cr**	**53**	**0.016**	ug/L	0.005	30	187	236	5	Standard
⎣	**Mn**	**55**	**-0.020**	ug/L	0.000	1	1693	940	1	Standard
⎡>	**Ge**	**72**		ug/L			52881	49953	1	KED
⎢	**Ni**	**60**	**-0.001**	ug/L	0.005	377	58	52	18	KED
⎢	**Ni**	**62**	**0.004**	ug/L	0.026	707	7	8	93	KED
⎢	**Cu**	**63**	**0.002**	ug/L	0.003	137	56	62	21	KED
⎢	**Cu**	**65**	**0.006**	ug/L	0.004	72	28	41	25	KED
⎢	**Zn**	**66**	**0.029**	ug/L	0.002	8	29	48	4	KED
⎢	**Zn**	**67**	**0.039**	ug/L	0.016	40	3	7	25	KED
⎣	**As**	**75**	**-0.000**	ug/L	0.002	4491	5	5	14	KED
	Y	**89**		ug/L			361102	346173	2	Standard
	Kr	**83**		ug/L			70	78	15	Standard
⎡>	**In-1**	**115**		ug/L			11213	10875	0	KED
⎢	**Cd**	**111**	**0.005**	ug/L	0.005	97	2	4	40	KED
⎣	**Cd**	**114**	**0.001**	ug/L	0.005	751	3	4	116	KED
⎡>	**In**	**115**		ug/L			510451	515787	2	Standard
⎣	**Ag**	**107**	**0.004**	ug/L	0.001	25	76	148	11	Standard
⎡>	**Tb**	**159**		ug/L			1318959	1283679	2	Standard
⎣	**Pb**	**208**	**0.002**	ug/L	0.000	13	239	426	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV2
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 15:43:08

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			42077	42549	2	Standard
	Cl	37		ug/L			6747174	6997865	4	Standard
>	Sc	45		ug/L			731768	665715	14	Standard
	Cr	52	54.160	ug/L	6.821	12	18236	1274412	3	Standard
	Cr	53	55.249	ug/L	8.059	14	187	145357	1	Standard
	Mn	55	54.389	ug/L	7.634	14	1693	1880878	1	Standard
>	Ge	72		ug/L			52881	48712	1	KED
	Ni	60	50.083	ug/L	0.939	1	58	88966	0	KED
	Ni	62	49.890	ug/L	0.789	1	7	14373	1	KED
	Cu	63	51.960	ug/L	0.673	1	56	255453	0	KED
	Cu	65	50.952	ug/L	1.492	2	28	128270	1	KED
	Zn	66	50.151	ug/L	0.101	0	29	35550	1	KED
	Zn	67	50.033	ug/L	0.310	0	3	5764	1	KED
	As	75	50.009	ug/L	0.762	1	5	18053	0	KED
	Y	89		ug/L			361102	322609	15	Standard
	Kr	83		ug/L			70	104	7	Standard
>	In-1	115		ug/L			11213	10353	1	KED
	Cd	111	50.644	ug/L	0.206	0	2	17582	1	KED
	Cd	114	50.318	ug/L	1.076	2	3	44261	0	KED
>	In	115		ug/L			510451	451854	17	Standard
	Ag	107	56.653	ug/L	9.704	17	76	916817	2	Standard
>	Tb	159		ug/L			1318959	1182152	15	Standard
	Pb	208	56.631	ug/L	9.156	16	239	4742510	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV2
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 15:50:21
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			42077	43204	1	Standard
	Cl	**37**		ug/L			6747174	7137129	2	Standard
⌈>	**Sc**	**45**		ug/L			731768	718725	2	Standard
|	**Cr**	**52**	**49.373**	ug/L	0.682	1	18236	1270847	2	Standard
|	**Cr**	**53**	**49.265**	ug/L	0.668	1	187	141908	2	Standard
⌊	**Mn**	**55**	**50.613**	ug/L	1.192	2	1693	1914732	0	Standard
⌈>	**Ge**	**72**		ug/L			52881	49573	1	KED
|	**Ni**	**60**	**49.869**	ug/L	1.370	2	58	90140	0	KED
|	**Ni**	**62**	**49.631**	ug/L	0.658	1	7	14550	0	KED
|	**Cu**	**63**	**50.303**	ug/L	0.749	1	56	251667	0	KED
|	**Cu**	**65**	**49.379**	ug/L	0.682	1	28	126533	1	KED
|	**Zn**	**66**	**49.907**	ug/L	0.394	0	29	36000	1	KED
|	**Zn**	**67**	**51.349**	ug/L	1.708	3	3	6020	3	KED
⌊	**As**	**75**	**49.452**	ug/L	0.755	1	5	18167	0	KED
	Y	**89**		ug/L			361102	344606	3	Standard
	Kr	**83**		ug/L			70	91	20	Standard
⌈>	**In-1**	**115**		ug/L			11213	10451	0	KED
|	**Cd**	**111**	**50.384**	ug/L	0.642	1	2	17657	0	KED
⌊	**Cd**	**114**	**50.381**	ug/L	0.660	1	3	44743	0	KED
⌈>	**In**	**115**		ug/L			510451	493203	2	Standard
⌊	**Ag**	**107**	**49.290**	ug/L	0.473	0	76	888268	1	Standard
⌈>	**Tb**	**159**		ug/L			1318959	1263310	1	Standard
⌊	**Pb**	**208**	**52.110**	ug/L	0.630	1	239	4744541	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB2
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 15:57:34
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			42077	44225	1	Standard
	Cl	**37**		ug/L			6747174	7018812	2	Standard
⌈>	**Sc**	**45**		ug/L			731768	713569	1	Standard
|	**Cr**	**52**	**-0.010**	ug/L	0.003	31	18236	17518	0	Standard
|	**Cr**	**53**	**0.004**	ug/L	0.002	39	187	195	1	Standard
⌊	**Mn**	**55**	**-0.019**	ug/L	0.004	21	1693	922	16	Standard
⌈>	**Ge**	**72**		ug/L			52881	49375	0	KED
|	**Ni**	**60**	**-0.008**	ug/L	0.005	68	58	40	23	KED
|	**Ni**	**62**	**0.004**	ug/L	0.010	254	7	8	35	KED
|	**Cu**	**63**	**0.004**	ug/L	0.001	25	56	71	6	KED
|	**Cu**	**65**	**0.004**	ug/L	0.005	107	28	37	31	KED
|	**Zn**	**66**	**0.024**	ug/L	0.003	13	29	44	4	KED
|	**Zn**	**67**	**0.067**	ug/L	0.034	50	3	10	36	KED
⌊	**As**	**75**	**0.011**	ug/L	0.006	55	5	8	24	KED
	Y	**89**		ug/L			361102	341514	0	Standard
	Kr	**83**		ug/L			70	86	24	Standard
⌈>	**In-1**	**115**		ug/L			11213	10621	0	KED
|	**Cd**	**111**	**0.005**	ug/L	0.003	62	2	4	24	KED
⌊	**Cd**	**114**	**0.003**	ug/L	0.005	181	3	6	80	KED
⌈>	**In**	**115**		ug/L			510451	504632	1	Standard
⌊	**Ag**	**107**	**0.006**	ug/L	0.002	41	76	185	26	Standard
⌈>	**Tb**	**159**		ug/L			1318959	1275559	0	Standard
⌊	**Pb**	**208**	**0.003**	ug/L	0.003	92	239	511	51	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0517-BLK1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 16:03:37
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			42077	96782	2	Standard
	Cl	37		ug/L			6747174	6903971	2	Standard
⌈>	Sc	45		ug/L			731768	722773	1	Standard
|	Cr	52	0.085	ug/L	0.008	9	18236	20181	1	Standard
|	Cr	53	0.046	ug/L	0.004	9	187	319	5	Standard
⌊	Mn	55	0.051	ug/L	0.002	4	1693	3616	3	Standard
⌈>	Ge	72		ug/L			52881	50474	0	KED
|	Ni	60	0.005	ug/L	0.007	127	58	65	18	KED
|	Ni	62	0.029	ug/L	0.010	33	7	15	18	KED
|	Cu	63	0.030	ug/L	0.002	7	56	206	5	KED
|	Cu	65	0.031	ug/L	0.003	10	28	109	8	KED
|	Zn	66	0.347	ug/L	0.022	6	29	282	6	KED
|	Zn	67	0.411	ug/L	0.191	46	3	52	44	KED
⌊	As	75	0.003	ug/L	0.007	231	5	6	43	KED
	Y	89		ug/L			361102	338395	3	Standard
	Kr	83		ug/L			70	84	2	Standard
⌈>	In-1	115		ug/L			11213	10739	1	KED
|	Cd	111	0.001	ug/L	0.002	131	2	3	17	KED
⌊	Cd	114	0.006	ug/L	0.002	35	3	9	23	KED
⌈>	In	115		ug/L			510451	506073	1	Standard
⌊	Ag	107	0.003	ug/L	0.001	36	76	137	14	Standard
⌈>	Tb	159		ug/L			1318959	1292704	1	Standard
⌊	Pb	208	0.004	ug/L	0.000	2	239	644	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0517-BS1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 16:08:05
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			42077	107616	2	Standard
	Cl	37		ug/L			6747174	7100631	2	Standard
>	Sc	45		ug/L			731768	726822	1	Standard
	Cr	52	26.831	ug/L	0.698	2	18236	706628	1	Standard
	Cr	53	27.268	ug/L	0.341	1	187	79521	0	Standard
	Mn	55	27.441	ug/L	0.683	2	1693	1051097	3	Standard
>	Ge	72		ug/L			52881	48487	0	KED
	Ni	60	28.085	ug/L	0.360	1	58	49693	1	KED
	Ni	62	27.537	ug/L	0.632	2	7	7899	1	KED
	Cu	63	28.235	ug/L	0.149	0	56	138210	0	KED
	Cu	65	28.118	ug/L	0.268	0	28	70491	0	KED
	Zn	66	90.188	ug/L	1.058	1	29	63612	0	KED
	Zn	67	87.109	ug/L	1.350	1	3	9988	1	KED
	As	75	27.367	ug/L	0.337	1	5	9837	0	KED
	Y	89		ug/L			361102	344740	0	Standard
	Kr	83		ug/L			70	107	2	Standard
>	In-1	115		ug/L			11213	10021	1	KED
	Cd	111	28.485	ug/L	0.178	0	2	9574	1	KED
	Cd	114	28.194	ug/L	0.294	1	3	24011	0	KED
>	In	115		ug/L			510451	489243	1	Standard
	Ag	107	27.668	ug/L	0.721	2	76	494508	0	Standard
>	Tb	159		ug/L			1318959	1255045	1	Standard
	Pb	208	27.684	ug/L	0.439	1	239	2504176	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0054-BLK1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 16:12:33
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			42077	60969	1	Standard
	Cl	37		ug/L			6747174	6949046	2	Standard
>	Sc	45		ug/L			731768	716795	1	Standard
	Cr	52	0.027	ug/L	0.017	61	18236	18541	0	Standard
	Cr	53	0.010	ug/L	0.003	33	187	212	2	Standard
	Mn	55	-0.001	ug/L	0.000	18	1693	1622	1	Standard
>	Ge	72		ug/L			52881	48947	1	KED
	Ni	60	-0.010	ug/L	0.008	79	58	36	39	KED
	Ni	62	0.006	ug/L	0.016	259	7	8	53	KED
	Cu	63	0.042	ug/L	0.007	15	56	259	11	KED
	Cu	65	0.043	ug/L	0.003	6	28	134	5	KED
	Zn	66	0.162	ug/L	0.027	16	29	142	13	KED
	Zn	67	0.172	ug/L	0.018	10	3	22	8	KED
	As	75	-0.004	ug/L	0.002	40	5	3	15	KED
	Y	89		ug/L			361102	343845	1	Standard
	Kr	83		ug/L			70	60	4	Standard
>	In-1	115		ug/L			11213	10337	0	KED
	Cd	111	-0.001	ug/L	0.002	137	2	2	24	KED
	Cd	114	0.004	ug/L	0.001	32	3	6	16	KED
>	In	115		ug/L			510451	501067	1	Standard
	Ag	107	0.002	ug/L	0.000	14	76	120	6	Standard
>	Tb	159		ug/L			1318959	1270786	2	Standard
	Pb	208	0.009	ug/L	0.000	3	239	1027	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0054-BS1
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Tuesday, May 02, 2023 16:17:02
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			42077	62013	1	Standard
	Cl	**37**		ug/L			6747174	7000667	2	Standard
⌈>	**Sc**	**45**		ug/L			731768	662016	10	Standard
|	**Cr**	**52**	**28.993**	ug/L	2.547	8	18236	690265	2	Standard
|	**Cr**	**53**	**28.831**	ug/L	2.835	9	187	76071	2	Standard
⌊	**Mn**	**55**	**29.042**	ug/L	2.703	9	1693	1006724	2	Standard
⌈>	**Ge**	**72**		ug/L			52881	48954	0	KED
|	**Ni**	**60**	**26.357**	ug/L	0.151	0	58	47089	0	KED
|	**Ni**	**62**	**26.848**	ug/L	0.181	0	7	7777	1	KED
|	**Cu**	**63**	**26.948**	ug/L	0.415	1	56	133183	1	KED
|	**Cu**	**65**	**26.797**	ug/L	0.310	1	28	67826	0	KED
|	**Zn**	**66**	**84.114**	ug/L	0.964	1	29	59901	0	KED
|	**Zn**	**67**	**81.625**	ug/L	1.695	2	3	9449	1	KED
⌊	**As**	**75**	**25.818**	ug/L	0.314	1	5	9370	0	KED
	Y	**89**		ug/L			361102	317800	10	Standard
	Kr	**83**		ug/L			70	100	14	Standard
⌈>	**In-1**	**115**		ug/L			11213	10322	1	KED
|	**Cd**	**111**	**26.058**	ug/L	0.468	1	2	9021	2	KED
⌊	**Cd**	**114**	**25.959**	ug/L	0.352	1	3	22771	1	KED
⌈>	**In**	**115**		ug/L			510451	451242	10	Standard
⌊	**Ag**	**107**	**28.607**	ug/L	2.571	8	76	469071	4	Standard
⌈>	**Tb**	**159**		ug/L			1318959	1164738	11	Standard
⌊	**Pb**	**208**	**29.254**	ug/L	3.322	11	239	2434119	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0054-BS1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 16:23:31
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			42077	60934	1	Standard
	Cl	37		ug/L			6747174	7181874	2	Standard
>	Sc	45		ug/L			731768	718845	2	Standard
	Cr	52	26.723	ug/L	0.391	1	18236	696095	1	Standard
	Cr	53	26.766	ug/L	0.298	1	187	77224	3	Standard
	Mn	55	26.677	ug/L	0.491	1	1693	1010417	2	Standard
>	Ge	72		ug/L			52881	49459	1	KED
	Ni	60	26.700	ug/L	0.473	1	58	48188	0	KED
	Ni	62	26.672	ug/L	0.365	1	7	7805	0	KED
	Cu	63	27.011	ug/L	0.729	2	56	134851	1	KED
	Cu	65	27.042	ug/L	0.421	1	28	69155	1	KED
	Zn	66	85.522	ug/L	0.510	0	29	61537	1	KED
	Zn	67	81.527	ug/L	2.886	3	3	9535	3	KED
	As	75	25.954	ug/L	0.222	0	5	9516	0	KED
	Y	89		ug/L			361102	347707	2	Standard
	Kr	83		ug/L			70	77	5	Standard
>	In-1	115		ug/L			11213	10498	1	KED
	Cd	111	26.785	ug/L	0.254	0	2	9432	1	KED
	Cd	114	26.783	ug/L	0.471	1	3	23893	0	KED
>	In	115		ug/L			510451	481786	1	Standard
	Ag	107	27.020	ug/L	0.485	1	76	475642	1	Standard
>	Tb	159		ug/L			1318959	1240596	0	Standard
	Pb	208	27.681	ug/L	0.166	0	239	2475273	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23E0005-01
Sample Dil Factor: 5
Comments:
Sample Date/Time: Tuesday, May 02, 2023 16:28:24
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			42077	232302	0	Standard
	Cl	37		ug/L			6747174	6976967	2	Standard
>	Sc	45		ug/L			731768	732323	3	Standard
	Cr	52	18.407	ug/L	0.605	3	18236	493931	0	Standard
	Cr	53	18.867	ug/L	0.350	1	187	55481	1	Standard
	Mn	55	50.963	ug/L	1.624	3	1693	1964146	1	Standard
>	Ge	72		ug/L			52881	46706	1	KED
	Ni	60	2.269	ug/L	0.050	2	58	3916	3	KED
	Ni	62	2.377	ug/L	0.146	6	7	662	5	KED
	Cu	63	0.940	ug/L	0.010	1	56	4479	1	KED
	Cu	65	0.927	ug/L	0.043	4	28	2263	5	KED
	Zn	66	30.796	ug/L	0.642	2	29	20938	1	KED
	Zn	67	29.595	ug/L	0.960	3	3	3270	2	KED
	As	75	0.127	ug/L	0.018	14	5	48	12	KED
	Y	89		ug/L			361102	328190	0	Standard
	Kr	83		ug/L			70	73	12	Standard
>	In-1	115		ug/L			11213	10081	0	KED
	Cd	111	0.468	ug/L	0.042	9	2	160	9	KED
	Cd	114	0.441	ug/L	0.084	18	3	381	19	KED
>	In	115		ug/L			510451	495499	0	Standard
	Ag	107	0.020	ug/L	0.001	6	76	432	5	Standard
>	Tb	159		ug/L			1318959	1273098	0	Standard
	Pb	208	0.053	ug/L	0.000	0	239	5090	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0631-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, May 02, 2023 16:37:49
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			42077	139351	3	Standard
	Cl	**37**		ug/L			6747174	12698935	2	Standard
⌈>	**Sc**	**45**		ug/L			731768	809508	2	Standard
|	**Cr**	**52**	**2.381**	ug/L	0.055	2	18236	88203	1	Standard
|	**Cr**	**53**	**3.764**	ug/L	0.131	3	187	12400	2	Standard
⌊	**Mn**	**55**	**415.672**	ug/L	3.106	0	1693	17704480	2	Standard
⌈>	**Ge**	**72**		ug/L			52881	44599	0	KED
|	**Ni**	**60**	**2.331**	ug/L	0.019	0	58	3839	0	KED
|	**Ni**	**62**	**2.309**	ug/L	0.216	9	7	615	9	KED
|	**Cu**	**63**	**6.889**	ug/L	0.052	0	56	31055	1	KED
|	**Cu**	**65**	**6.759**	ug/L	0.116	1	28	15604	1	KED
|	**Zn**	**66**	**52.593**	ug/L	1.276	2	29	34129	1	KED
|	**Zn**	**67**	**53.974**	ug/L	1.210	2	3	5693	2	KED
⌊	**As**	**75**	**1.406**	ug/L	0.051	3	5	469	3	KED
	Y	**89**		ug/L			361102	344953	1	Standard
	Kr	**83**		ug/L			70	208	9	Standard
⌈>	**In-1**	**115**		ug/L			11213	10040	1	KED
|	**Cd**	**111**	**0.427**	ug/L	0.035	8	2	146	7	KED
⌊	**Cd**	**114**	**0.452**	ug/L	0.031	6	3	388	7	KED
⌈>	**In**	**115**		ug/L			510451	456108	1	Standard
⌊	**Ag**	**107**	**0.020**	ug/L	0.002	11	76	397	8	Standard
⌈>	**Tb**	**159**		ug/L			1318959	1227359	0	Standard
⌊	**Pb**	**208**	**2.236**	ug/L	0.024	1	239	198007	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0102-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, May 02, 2023 16:42:39
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			42077	73338	1	Standard
	Cl	37		ug/L			6747174	10170167	2	Standard
>	Sc	45		ug/L			731768	751579	3	Standard
	Cr	52	57.384	ug/L	1.185	2	18236	1541005	1	Standard
	Cr	53	61.075	ug/L	1.033	1	187	183895	1	Standard
	Mn	55	4.319	ug/L	0.097	2	1693	172440	1	Standard
>	Ge	72		ug/L			52881	47705	0	KED
	Ni	60	1.957	ug/L	0.014	0	58	3456	0	KED
	Ni	62	2.037	ug/L	0.208	10	7	580	9	KED
	Cu	63	11.029	ug/L	0.106	0	56	53146	0	KED
	Cu	65	11.055	ug/L	0.237	2	28	27281	1	KED
	Zn	66	19.165	ug/L	0.098	0	29	13321	0	KED
	Zn	67	18.028	ug/L	0.631	3	3	2036	3	KED
	As	75	0.147	ug/L	0.006	3	5	56	3	KED
	Y	89		ug/L			361102	335599	1	Standard
	Kr	83		ug/L			70	73	9	Standard
>	In-1	115		ug/L			11213	9904	1	KED
	Cd	111	0.765	ug/L	0.049	6	2	256	6	KED
	Cd	114	0.768	ug/L	0.018	2	3	649	2	KED
>	In	115		ug/L			510451	476659	0	Standard
	Ag	107	0.009	ug/L	0.002	23	76	231	17	Standard
>	Tb	159		ug/L			1318959	1241367	2	Standard
	Pb	208	0.160	ug/L	0.004	2	239	14501	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL4
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 16:49:32
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			42077	46749	2	Standard
	Cl	**37**		ug/L			6747174	7210627	2	Standard
⎡>	**Sc**	**45**		ug/L			731768	704329	1	Standard
⎢	**Cr**	**52**	**-0.008**	ug/L	0.010	123	18236	17348	1	Standard
⎢	**Cr**	**53**	**0.082**	ug/L	0.007	9	187	412	6	Standard
⎣	**Mn**	**55**	**-0.016**	ug/L	0.000	1	1693	1025	1	Standard
⎡>	**Ge**	**72**		ug/L			52881	50336	1	KED
⎢	**Ni**	**60**	**-0.014**	ug/L	0.005	35	58	29	32	KED
⎢	**Ni**	**62**	**-0.005**	ug/L	0.011	210	7	5	57	KED
⎢	**Cu**	**63**	**0.003**	ug/L	0.002	55	56	68	11	KED
⎢	**Cu**	**65**	**0.005**	ug/L	0.002	50	28	40	17	KED
⎢	**Zn**	**66**	**0.055**	ug/L	0.013	23	29	67	14	KED
⎢	**Zn**	**67**	**0.060**	ug/L	0.049	81	3	10	57	KED
⎣	**As**	**75**	**-0.006**	ug/L	0.005	73	5	2	60	KED
	Y	**89**		ug/L			361102	338062	1	Standard
	Kr	**83**		ug/L			70	63	12	Standard
⎡>	**In-1**	**115**		ug/L			11213	10599	1	KED
⎢	**Cd**	**111**	**-0.000**	ug/L	0.001	311	2	2	21	KED
⎣	**Cd**	**114**	**-0.002**	ug/L	0.004	198	3	1	193	KED
⎡>	**In**	**115**		ug/L			510451	493978	0	Standard
⎣	**Ag**	**107**	**-0.001**	ug/L	0.000	43	76	64	6	Standard
⎡>	**Tb**	**159**		ug/L			1318959	1245640	0	Standard
⎣	**Pb**	**208**	**0.002**	ug/L	0.000	10	239	421	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV3
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 16:54:01
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			42077	44664	1	Standard
	Cl	**37**		ug/L			6747174	7163619	2	Standard
⎡>	**Sc**	**45**		ug/L			731768	717567	1	Standard
⎢	**Cr**	**52**	**48.606**	ug/L	0.747	1	18236	1249583	2	Standard
⎢	**Cr**	**53**	**49.362**	ug/L	0.393	0	187	141991	2	Standard
⎣	**Mn**	**55**	**49.433**	ug/L	0.829	1	1693	1868140	3	Standard
⎡>	**Ge**	**72**		ug/L			52881	48316	0	KED
⎢	**Ni**	**60**	**51.163**	ug/L	0.536	1	58	90160	0	KED
⎢	**Ni**	**62**	**50.135**	ug/L	0.503	1	7	14327	1	KED
⎢	**Cu**	**63**	**50.949**	ug/L	0.547	1	56	248463	0	KED
⎢	**Cu**	**65**	**50.969**	ug/L	0.830	1	28	127299	0	KED
⎢	**Zn**	**66**	**50.200**	ug/L	0.624	1	29	35293	0	KED
⎢	**Zn**	**67**	**51.330**	ug/L	0.287	0	3	5866	1	KED
⎣	**As**	**75**	**50.075**	ug/L	0.623	1	5	17931	0	KED
	Y	**89**		ug/L			361102	340699	3	Standard
	Kr	**83**		ug/L			70	78	8	Standard
⎡>	**In-1**	**115**		ug/L			11213	10284	1	KED
⎢	**Cd**	**111**	**50.688**	ug/L	1.234	2	2	17478	1	KED
⎣	**Cd**	**114**	**50.493**	ug/L	0.731	1	3	44126	0	KED
⎡>	**In**	**115**		ug/L			510451	488685	3	Standard
⎣	**Ag**	**107**	**49.073**	ug/L	1.703	3	76	875576	0	Standard
⎡>	**Tb**	**159**		ug/L			1318959	1254641	3	Standard
⎣	**Pb**	**208**	**50.711**	ug/L	1.989	3	239	4582326	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB3
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 17:01:14
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			42077	44843	2	Standard
	Cl	**37**		ug/L			6747174	7126924	2	Standard
⌈>	**Sc**	**45**		ug/L			731768	711143	1	Standard
|	**Cr**	**52**	**-0.016**	ug/L	0.014	87	18236	17329	2	Standard
|	**Cr**	**53**	**0.018**	ug/L	0.008	41	187	235	9	Standard
⌊	**Mn**	**55**	**-0.022**	ug/L	0.001	2	1693	819	1	Standard
⌈>	**Ge**	**72**		ug/L			52881	50208	1	KED
|	**Ni**	**60**	**-0.016**	ug/L	0.007	42	58	26	47	KED
|	**Ni**	**62**	**-0.005**	ug/L	0.013	253	7	5	66	KED
|	**Cu**	**63**	**0.001**	ug/L	0.001	83	56	60	7	KED
|	**Cu**	**65**	**-0.001**	ug/L	0.002	137	28	24	16	KED
|	**Zn**	**66**	**0.024**	ug/L	0.010	41	29	45	14	KED
|	**Zn**	**67**	**0.060**	ug/L	0.008	13	3	10	10	KED
⌊	**As**	**75**	**-0.001**	ug/L	0.001	159	5	4	5	KED
	Y	**89**		ug/L			361102	348649	0	Standard
	Kr	**83**		ug/L			70	71	24	Standard
⌈>	**In-1**	**115**		ug/L			11213	10750	1	KED
|	**Cd**	**111**	**0.004**	ug/L	0.011	283	2	4	96	KED
⌊	**Cd**	**114**	**0.006**	ug/L	0.002	34	3	9	21	KED
⌈>	**In**	**115**		ug/L			510451	492668	2	Standard
⌊	**Ag**	**107**	**0.003**	ug/L	0.001	24	76	120	10	Standard
⌈>	**Tb**	**159**		ug/L			1318959	1245027	1	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.001	39	239	342	12	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 17:06:46
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				43168	2	Standard
	Cl	**37**		ug/L				7031855	2	Standard
⌈>	**Sc**	**45**		ug/L				700785	1	Standard
|	**Cr**	**52**		ug/L				17028	1	Standard
⌊	**Cr**	**53**		ug/L				213	0	Standard
⌈>	**Ge**	**72**		ug/L				49353	1	KED
|	**Ni**	**60**		ug/L				16	24	KED
|	**Ni**	**62**		ug/L				8	66	KED
|	**Cu**	**63**		ug/L				50	8	KED
|	**Cu**	**65**		ug/L				26	37	KED
|	**Zn**	**66**		ug/L				28	11	KED
|	**Zn**	**67**		ug/L				3	50	KED
⌊	**As**	**75**		ug/L				3	45	KED
	Y	**89**		ug/L				329848	1	Standard
	Kr	**83**		ug/L				67	5	Standard
⌈>	**In-1**	**115**		ug/L				10660	1	KED
|	**Cd**	**111**		ug/L				4	66	KED
⌊	**Cd**	**114**		ug/L				3	38	KED
⌈>	**In**	**115**		ug/L				476658	2	Standard
⌊	**Ag**	**107**		ug/L				62	26	Standard
⌈>	**Tb**	**159**		ug/L				1242145	1	Standard
⌊	**Pb**	**208**		ug/L				218	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV4
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 17:11:12
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43168	42470	1	Standard
	Cl	**37**		ug/L			7031855	7126129	2	Standard
⌈>	**Sc**	**45**		ug/L			700785	705382	0	Standard
|	**Cr**	**52**	**50.003**	ug/L	0.934	1	17028	1262645	2	Standard
⌊	**Cr**	**53**	**50.206**	ug/L	1.183	2	213	141986	2	Standard
⌈>	**Ge**	**72**		ug/L			49353	49121	2	KED
|	**Ni**	**60**	**50.305**	ug/L	0.630	1	16	90083	1	KED
|	**Ni**	**62**	**50.067**	ug/L	1.956	3	8	14539	1	KED
|	**Cu**	**63**	**51.184**	ug/L	0.297	0	50	253771	1	KED
|	**Cu**	**65**	**50.473**	ug/L	0.868	1	26	128154	1	KED
|	**Zn**	**66**	**50.352**	ug/L	0.897	1	28	35987	1	KED
|	**Zn**	**67**	**49.859**	ug/L	1.506	3	3	5791	1	KED
⌊	**As**	**75**	**49.987**	ug/L	1.033	2	3	18193	0	KED
	Y	**89**		ug/L			329848	344602	2	Standard
	Kr	**83**		ug/L			67	83	15	Standard
⌈>	**In-1**	**115**		ug/L			10660	10612	1	KED
|	**Cd**	**111**	**49.068**	ug/L	1.181	2	4	17459	1	KED
⌊	**Cd**	**114**	**49.283**	ug/L	1.424	2	3	44429	1	KED
⌈>	**In**	**115**		ug/L			476658	486900	1	Standard
⌊	**Ag**	**107**	**50.135**	ug/L	0.934	1	62	891890	1	Standard
⌈>	**Tb**	**159**		ug/L			1242145	1245636	0	Standard
⌊	**Pb**	**208**	**51.968**	ug/L	0.414	0	218	4665809	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB4
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 17:18:22
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43168	42138	2	Standard
	Cl	**37**		ug/L			7031855	6994146	2	Standard
⌈>	**Sc**	**45**		ug/L			700785	713644	3	Standard
|	**Cr**	**52**	**0.000**	ug/L	0.010	9439	17028	17338	1	Standard
⌊	**Cr**	**53**	**-0.006**	ug/L	0.000	6	213	200	3	Standard
⌈>	**Ge**	**72**		ug/L			49353	51167	1	KED
|	**Ni**	**60**	**0.016**	ug/L	0.006	39	16	47	24	KED
|	**Ni**	**62**	**-0.001**	ug/L	0.013	1510	8	8	48	KED
|	**Cu**	**63**	**-0.002**	ug/L	0.001	57	50	41	13	KED
|	**Cu**	**65**	**0.002**	ug/L	0.003	134	26	33	23	KED
|	**Zn**	**66**	**-0.003**	ug/L	0.008	253	28	27	22	KED
|	**Zn**	**67**	**0.036**	ug/L	0.008	23	3	8	13	KED
⌊	**As**	**75**	**0.008**	ug/L	0.005	56	3	7	24	KED
	Y	**89**		ug/L			329848	346450	0	Standard
	Kr	**83**		ug/L			67	55	19	Standard
⌈>	**In-1**	**115**		ug/L			10660	10846	1	KED
|	**Cd**	**111**	**0.009**	ug/L	0.011	125	4	7	52	KED
⌊	**Cd**	**114**	**0.003**	ug/L	0.004	134	3	5	60	KED
⌈>	**In**	**115**		ug/L			476658	491605	0	Standard
⌊	**Ag**	**107**	**0.003**	ug/L	0.001	30	62	120	13	Standard
⌈>	**Tb**	**159**		ug/L			1242145	1255360	1	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	32	218	292	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0417-02
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 17:24:04
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43168	95960	1	Standard
	Cl	37		ug/L			7031855	6601743	2	Standard
⌈>	Sc	45		ug/L			700785	874559	1	Standard
|	Cr	52	11.850	ug/L	0.199	1	17028	387159	1	Standard
⌊	Cr	53	11.934	ug/L	0.097	0	213	42047	1	Standard
⌈>	Ge	72		ug/L			49353	49944	0	KED
|	Ni	60	11.127	ug/L	0.307	2	16	20275	2	KED
|	Ni	62	11.043	ug/L	0.197	1	8	3268	1	KED
|	Cu	63	28.693	ug/L	0.147	0	50	144673	0	KED
|	Cu	65	28.721	ug/L	0.234	0	26	74169	0	KED
|	Zn	66	52.703	ug/L	0.101	0	28	38304	0	KED
|	Zn	67	52.533	ug/L	0.706	1	3	6207	1	KED
⌊	As	75	8.005	ug/L	0.132	1	3	2966	1	KED
	Y	89		ug/L			329848	583079	2	Standard
	Kr	83		ug/L			67	99	8	Standard
⌈>	In-1	115		ug/L			10660	10539	3	KED
|	Cd	111	0.154	ug/L	0.009	6	4	58	8	KED
⌊	Cd	114	0.177	ug/L	0.001	0	3	161	3	KED
⌈>	In	115		ug/L			476658	487193	3	Standard
⌊	Ag	107	0.140	ug/L	0.006	4	62	2553	2	Standard
⌈>	Tb	159		ug/L			1242145	1258281	0	Standard
⌊	Pb	208	13.380	ug/L	0.113	0	218	1213652	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0417-03
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 17:28:29
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			43168	99614	0	Standard
Cl	37		ug/L			7031855	6563557	3	Standard
> Sc	45		ug/L			700785	879266	4	Standard
Cr	52	11.424	ug/L	0.141	1	17028	375922	3	Standard
Cr	53	11.667	ug/L	0.118	1	213	41326	3	Standard
> Ge	72		ug/L			49353	48968	1	KED
Ni	60	11.149	ug/L	0.211	1	16	19914	1	KED
Ni	62	10.964	ug/L	0.148	1	8	3181	1	KED
Cu	63	30.483	ug/L	1.061	3	50	150635	1	KED
Cu	65	30.523	ug/L	0.535	1	26	77271	1	KED
Zn	66	71.742	ug/L	0.753	1	28	51109	1	KED
Zn	67	69.825	ug/L	1.032	1	3	8086	0	KED
As	75	5.920	ug/L	0.134	2	3	2152	3	KED
Y	89		ug/L			329848	585362	4	Standard
Kr	83		ug/L			67	121	12	Standard
> In-1	115		ug/L			10660	10292	2	KED
Cd	111	0.169	ug/L	0.016	9	4	62	7	KED
Cd	114	0.145	ug/L	0.015	10	3	129	12	KED
> In	115		ug/L			476658	489627	1	Standard
Ag	107	0.138	ug/L	0.005	3	62	2532	4	Standard
> Tb	159		ug/L			1242145	1250939	3	Standard
Pb	208	13.133	ug/L	0.145	1	218	1184160	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0417-04
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 17:32:55
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43168	91496	0	Standard
	Cl	37		ug/L			7031855	6503371	2	Standard
>	Sc	45		ug/L			700785	859091	0	Standard
	Cr	52	11.388	ug/L	0.232	2	17028	366364	2	Standard
	Cr	53	11.548	ug/L	0.151	1	213	39978	2	Standard
>	Ge	72		ug/L			49353	47723	0	KED
	Ni	60	11.896	ug/L	0.207	1	16	20710	1	KED
	Ni	62	11.511	ug/L	0.071	0	8	3255	0	KED
	Cu	63	26.130	ug/L	0.179	0	50	125898	0	KED
	Cu	65	25.732	ug/L	0.251	0	26	63499	1	KED
	Zn	66	52.229	ug/L	0.932	1	28	36272	1	KED
	Zn	67	51.156	ug/L	0.792	1	3	5775	1	KED
	As	75	6.607	ug/L	0.138	2	3	2340	2	KED
	Y	89		ug/L			329848	585791	1	Standard
	Kr	83		ug/L			67	97	24	Standard
>	In-1	115		ug/L			10660	10295	2	KED
	Cd	111	0.154	ug/L	0.012	7	4	57	7	KED
	Cd	114	0.135	ug/L	0.017	12	3	120	10	KED
>	In	115		ug/L			476658	479415	2	Standard
	Ag	107	0.121	ug/L	0.002	1	62	2174	2	Standard
>	Tb	159		ug/L			1242145	1265075	2	Standard
	Pb	208	11.323	ug/L	0.057	0	218	1032537	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0417-05
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 17:37:20
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43168	95342	0	Standard
	Cl	37		ug/L			7031855	6591331	2	Standard
>	Sc	45		ug/L			700785	831020	1	Standard
	Cr	52	10.977	ug/L	0.182	1	17028	342368	2	Standard
	Cr	53	11.018	ug/L	0.019	0	213	36906	1	Standard
>	Ge	72		ug/L			49353	49006	1	KED
	Ni	60	9.366	ug/L	0.229	2	16	16743	0	KED
	Ni	62	9.505	ug/L	0.382	4	8	2760	2	KED
	Cu	63	22.142	ug/L	0.609	2	50	109526	1	KED
	Cu	65	22.463	ug/L	0.602	2	26	56911	1	KED
	Zn	66	54.208	ug/L	0.724	1	28	38653	1	KED
	Zn	67	52.445	ug/L	0.311	0	3	6080	2	KED
	As	75	5.229	ug/L	0.224	4	3	1902	2	KED
	Y	89		ug/L			329848	553431	2	Standard
	Kr	83		ug/L			67	99	15	Standard
>	In-1	115		ug/L			10660	10293	3	KED
	Cd	111	0.111	ug/L	0.030	27	4	41	21	KED
	Cd	114	0.083	ug/L	0.004	5	3	75	5	KED
>	In	115		ug/L			476658	492346	1	Standard
	Ag	107	0.090	ug/L	0.010	11	62	1678	10	Standard
>	Tb	159		ug/L			1242145	1278802	1	Standard
	Pb	208	21.395	ug/L	0.528	2	218	1971819	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0417-06
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 17:41:46
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43168	100567	0	Standard
	Cl	37		ug/L			7031855	6527866	2	Standard
⌈>	Sc	45		ug/L			700785	875807	1	Standard
|	Cr	52	13.064	ug/L	0.115	0	17028	425327	2	Standard
⌊	Cr	53	13.249	ug/L	0.225	1	213	46717	2	Standard
⌈>	Ge	72		ug/L			49353	48365	0	KED
|	Ni	60	12.632	ug/L	0.200	1	16	22287	1	KED
|	Ni	62	12.978	ug/L	0.210	1	8	3718	1	KED
|	Cu	63	33.516	ug/L	0.638	1	50	163622	1	KED
|	Cu	65	33.456	ug/L	0.129	0	26	83658	0	KED
|	Zn	66	59.467	ug/L	0.526	0	28	41849	0	KED
|	Zn	67	58.639	ug/L	0.569	0	3	6708	0	KED
⌊	As	75	7.547	ug/L	0.083	1	3	2708	0	KED
	Y	89		ug/L			329848	610626	2	Standard
	Kr	83		ug/L			67	109	13	Standard
⌈>	In-1	115		ug/L			10660	10185	1	KED
|	Cd	111	0.193	ug/L	0.020	10	4	69	11	KED
⌊	Cd	114	0.195	ug/L	0.031	15	3	171	13	KED
⌈>	In	115		ug/L			476658	492804	1	Standard
⌊	Ag	107	0.146	ug/L	0.005	3	62	2701	3	Standard
⌈>	Tb	159		ug/L			1242145	1260103	2	Standard
⌊	Pb	208	13.268	ug/L	0.310	2	218	1204797	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0417-07
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 17:46:11
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43168	89872	0	Standard
	Cl	37		ug/L			7031855	6567350	3	Standard
>	Sc	45		ug/L			700785	809820	1	Standard
	Cr	52	10.989	ug/L	0.212	1	17028	333908	1	Standard
	Cr	53	11.306	ug/L	0.084	0	213	36899	1	Standard
>	Ge	72		ug/L			49353	49124	1	KED
	Ni	60	9.652	ug/L	0.079	0	16	17301	1	KED
	Ni	62	9.582	ug/L	0.561	5	8	2789	4	KED
	Cu	63	23.190	ug/L	0.271	1	50	115007	0	KED
	Cu	65	23.411	ug/L	0.707	3	26	59463	2	KED
	Zn	66	62.035	ug/L	1.218	1	28	44335	1	KED
	Zn	67	59.724	ug/L	1.307	2	3	6939	1	KED
	As	75	4.841	ug/L	0.023	0	3	1765	0	KED
	Y	89		ug/L			329848	519034	2	Standard
	Kr	83		ug/L			67	99	10	Standard
>	In-1	115		ug/L			10660	10130	0	KED
	Cd	111	0.135	ug/L	0.018	13	4	49	12	KED
	Cd	114	0.135	ug/L	0.024	17	3	119	18	KED
>	In	115		ug/L			476658	490753	3	Standard
	Ag	107	0.087	ug/L	0.003	3	62	1629	1	Standard
>	Tb	159		ug/L			1242145	1260385	2	Standard
	Pb	208	15.778	ug/L	0.417	2	218	1432924	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0417-08
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 17:50:37
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			43168	88251	1	Standard
Cl	37		ug/L			7031855	6553597	3	Standard
> Sc	45		ug/L			700785	908055	1	Standard
Cr	52	13.463	ug/L	0.248	1	17028	453747	2	Standard
Cr	53	13.738	ug/L	0.218	1	213	50214	2	Standard
> Ge	72		ug/L			49353	48257	0	KED
Ni	60	14.732	ug/L	0.125	0	16	25932	0	KED
Ni	62	14.797	ug/L	0.685	4	8	4229	4	KED
Cu	63	25.351	ug/L	0.411	1	50	123508	1	KED
Cu	65	25.486	ug/L	0.322	1	26	63593	0	KED
Zn	66	444.270	ug/L	7.981	1	28	311780	1	KED
Zn	67	420.329	ug/L	0.594	0	3	47961	0	KED
As	75	5.896	ug/L	0.155	2	3	2112	2	KED
Y	89		ug/L			329848	670298	1	Standard
Kr	83		ug/L			67	115	24	Standard
> In-1	115		ug/L			10660	10220	1	KED
Cd	111	0.221	ug/L	0.006	2	4	79	3	KED
Cd	114	0.207	ug/L	0.033	15	3	182	15	KED
> In	115		ug/L			476658	477216	2	Standard
Ag	107	0.167	ug/L	0.008	5	62	2966	4	Standard
> Tb	159		ug/L			1242145	1238084	0	Standard
Pb	208	9.598	ug/L	0.074	0	218	856699	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0417-09
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 17:55:02
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43168	94537	1	Standard
	Cl	37		ug/L			7031855	6579120	3	Standard
>	Sc	45		ug/L			700785	864601	2	Standard
	Cr	52	12.698	ug/L	0.190	1	17028	408604	1	Standard
	Cr	53	13.013	ug/L	0.230	1	213	45289	0	Standard
>	Ge	72		ug/L			49353	48108	0	KED
	Ni	60	12.878	ug/L	0.268	2	16	22596	1	KED
	Ni	62	12.630	ug/L	0.207	1	8	3599	1	KED
	Cu	63	26.186	ug/L	0.303	1	50	127176	0	KED
	Cu	65	26.040	ug/L	0.341	1	26	64774	1	KED
	Zn	66	53.414	ug/L	0.463	0	28	37392	0	KED
	Zn	67	52.639	ug/L	1.158	2	3	5990	1	KED
	As	75	5.773	ug/L	0.009	0	3	2061	0	KED
	Y	89		ug/L			329848	584595	0	Standard
	Kr	83		ug/L			67	100	4	Standard
>	In-1	115		ug/L			10660	10105	0	KED
	Cd	111	0.170	ug/L	0.018	10	4	61	9	KED
	Cd	114	0.163	ug/L	0.011	6	3	142	7	KED
>	In	115		ug/L			476658	469214	1	Standard
	Ag	107	0.136	ug/L	0.005	3	62	2393	2	Standard
>	Tb	159		ug/L			1242145	1237152	1	Standard
	Pb	208	11.204	ug/L	0.201	1	218	998987	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0417-10
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 17:59:27
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43168	95532	1	Standard
	Cl	37		ug/L			7031855	6573896	2	Standard
>	Sc	45		ug/L			700785	861664	2	Standard
	Cr	52	12.982	ug/L	0.331	2	17028	415772	0	Standard
	Cr	53	13.331	ug/L	0.282	2	213	46233	1	Standard
>	Ge	72		ug/L			49353	47244	0	KED
	Ni	60	13.098	ug/L	0.111	0	16	22572	1	KED
	Ni	62	12.858	ug/L	0.280	2	8	3599	2	KED
	Cu	63	26.927	ug/L	0.196	0	50	128432	0	KED
	Cu	65	27.062	ug/L	0.301	1	26	66109	1	KED
	Zn	66	54.350	ug/L	1.121	2	28	37364	1	KED
	Zn	67	53.951	ug/L	0.440	0	3	6029	0	KED
	As	75	6.841	ug/L	0.058	0	3	2398	0	KED
	Y	89		ug/L			329848	582325	1	Standard
	Kr	83		ug/L			67	95	4	Standard
>	In-1	115		ug/L			10660	9827	2	KED
	Cd	111	0.176	ug/L	0.011	6	4	61	8	KED
	Cd	114	0.174	ug/L	0.015	8	3	147	10	KED
>	In	115		ug/L			476658	484247	3	Standard
	Ag	107	0.128	ug/L	0.006	4	62	2334	1	Standard
>	Tb	159		ug/L			1242145	1227953	0	Standard
	Pb	208	11.225	ug/L	0.167	1	218	993631	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0417-11
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 18:03:53
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43168	95171	1	Standard
	Cl	37		ug/L			7031855	6564487	2	Standard
>	Sc	45		ug/L			700785	868553	1	Standard
	Cr	52	12.804	ug/L	0.036	0	17028	413785	1	Standard
	Cr	53	12.998	ug/L	0.138	1	213	45456	0	Standard
>	Ge	72		ug/L			49353	48006	1	KED
	Ni	60	12.890	ug/L	0.110	0	16	22572	0	KED
	Ni	62	13.142	ug/L	0.335	2	8	3738	3	KED
	Cu	63	24.910	ug/L	0.476	1	50	120714	0	KED
	Cu	65	24.797	ug/L	0.747	3	26	61539	1	KED
	Zn	66	54.620	ug/L	1.124	2	28	38150	1	KED
	Zn	67	55.005	ug/L	1.803	3	3	6245	2	KED
	As	75	5.300	ug/L	0.089	1	3	1889	2	KED
	Y	89		ug/L			329848	588581	2	Standard
	Kr	83		ug/L			67	114	11	Standard
>	In-1	115		ug/L			10660	10225	2	KED
	Cd	111	0.139	ug/L	0.024	16	4	51	13	KED
	Cd	114	0.130	ug/L	0.010	7	3	115	10	KED
>	In	115		ug/L			476658	471908	1	Standard
	Ag	107	0.121	ug/L	0.003	2	62	2150	1	Standard
>	Tb	159		ug/L			1242145	1235243	0	Standard
	Pb	208	10.473	ug/L	0.032	0	218	932653	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV5
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 18:09:23
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43168	44158	1	Standard
	Cl	**37**		ug/L			7031855	6928613	2	Standard
⌈>	**Sc**	**45**		ug/L			700785	700572	1	Standard
|	**Cr**	**52**	**49.828**	ug/L	1.489	2	17028	1249418	1	Standard
⌊	**Cr**	**53**	**50.648**	ug/L	1.249	2	213	142255	2	Standard
⌈>	**Ge**	**72**		ug/L			49353	48242	0	KED
|	**Ni**	**60**	**50.382**	ug/L	0.314	0	16	88615	0	KED
|	**Ni**	**62**	**50.212**	ug/L	0.621	1	8	14329	1	KED
|	**Cu**	**63**	**50.400**	ug/L	0.213	0	50	245426	0	KED
|	**Cu**	**65**	**51.098**	ug/L	0.597	1	26	127441	1	KED
|	**Zn**	**66**	**50.454**	ug/L	0.314	0	28	35421	0	KED
|	**Zn**	**67**	**52.177**	ug/L	0.460	0	3	5954	0	KED
⌊	**As**	**75**	**49.756**	ug/L	0.104	0	3	17790	0	KED
	Y	**89**		ug/L			329848	326601	1	Standard
	Kr	**83**		ug/L			67	74	6	Standard
⌈>	**In-1**	**115**		ug/L			10660	10321	3	KED
|	**Cd**	**111**	**50.599**	ug/L	1.817	3	4	17499	0	KED
⌊	**Cd**	**114**	**50.631**	ug/L	1.131	2	3	44383	1	KED
⌈>	**In**	**115**		ug/L			476658	468865	1	Standard
⌊	**Ag**	**107**	**50.669**	ug/L	0.541	1	62	868000	1	Standard
⌈>	**Tb**	**159**		ug/L			1242145	1251233	0	Standard
⌊	**Pb**	**208**	**51.493**	ug/L	1.034	2	218	4643803	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB5
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 18:16:33
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43168	42970	2	Standard
	Cl	**37**		ug/L			7031855	6817699	3	Standard
⌈>	**Sc**	**45**		ug/L			700785	691908	3	Standard
|	**Cr**	**52**	**0.008**	ug/L	0.013	161	17028	17001	1	Standard
⌊	**Cr**	**53**	**-0.015**	ug/L	0.003	20	213	168	7	Standard
⌈>	**Ge**	**72**		ug/L			49353	50027	0	KED
|	**Ni**	**60**	**-0.000**	ug/L	0.001	982	16	16	13	KED
|	**Ni**	**62**	**0.002**	ug/L	0.016	912	8	8	53	KED
|	**Cu**	**63**	**0.001**	ug/L	0.003	355	50	55	28	KED
|	**Cu**	**65**	**-0.001**	ug/L	0.001	85	26	24	7	KED
|	**Zn**	**66**	**0.013**	ug/L	0.019	149	28	38	36	KED
|	**Zn**	**67**	**0.016**	ug/L	0.016	103	3	5	33	KED
⌊	**As**	**75**	**0.001**	ug/L	0.001	102	3	4	6	KED
	Y	**89**		ug/L			329848	331031	3	Standard
	Kr	**83**		ug/L			67	59	7	Standard
⌈>	**In-1**	**115**		ug/L			10660	10673	1	KED
|	**Cd**	**111**	**-0.008**	ug/L	0.002	18	4	1	43	KED
⌊	**Cd**	**114**	**0.003**	ug/L	0.003	90	3	6	46	KED
⌈>	**In**	**115**		ug/L			476658	483566	3	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.000	19	62	92	6	Standard
⌈>	**Tb**	**159**		ug/L			1242145	1235342	2	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	57	218	281	11	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0417-12
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 18:24:19
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43168	87923	2	Standard
	Cl	37		ug/L			7031855	6578117	2	Standard
>	Sc	45		ug/L			700785	807054	0	Standard
	Cr	52	10.671	ug/L	0.087	0	17028	323729	1	Standard
	Cr	53	10.973	ug/L	0.058	0	213	35698	1	Standard
>	Ge	72		ug/L			49353	49732	0	KED
	Ni	60	10.456	ug/L	0.076	0	16	18972	0	KED
	Ni	62	10.248	ug/L	0.092	0	8	3021	1	KED
	Cu	63	18.881	ug/L	0.165	0	50	94813	1	KED
	Cu	65	18.816	ug/L	0.094	0	26	48393	0	KED
	Zn	66	42.137	ug/L	0.422	1	28	30499	0	KED
	Zn	67	39.711	ug/L	0.524	1	3	4673	1	KED
	As	75	5.191	ug/L	0.098	1	3	1916	1	KED
	Y	89		ug/L			329848	515095	2	Standard
	Kr	83		ug/L			67	80	13	Standard
>	In-1	115		ug/L			10660	10716	2	KED
	Cd	111	0.049	ug/L	0.028	56	4	21	45	KED
	Cd	114	0.044	ug/L	0.017	38	3	42	35	KED
>	In	115		ug/L			476658	474444	2	Standard
	Ag	107	0.075	ug/L	0.004	5	62	1354	4	Standard
>	Tb	159		ug/L			1242145	1224088	3	Standard
	Pb	208	15.885	ug/L	0.581	3	218	1400613	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0417-13
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 18:28:44
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43168	87938	1	Standard
	Cl	37		ug/L			7031855	6560400	3	Standard
>	Sc	45		ug/L			700785	841709	1	Standard
	Cr	52	15.207	ug/L	0.199	1	17028	472397	0	Standard
	Cr	53	15.133	ug/L	0.290	1	213	51240	0	Standard
>	Ge	72		ug/L			49353	47802	0	KED
	Ni	60	14.402	ug/L	0.254	1	16	25109	1	KED
	Ni	62	14.297	ug/L	0.260	1	8	4048	1	KED
	Cu	63	39.912	ug/L	0.385	0	50	192582	0	KED
	Cu	65	39.720	ug/L	0.144	0	26	98164	0	KED
	Zn	66	62.090	ug/L	0.966	1	28	43186	1	KED
	Zn	67	62.194	ug/L	1.427	2	3	7032	2	KED
	As	75	7.737	ug/L	0.094	1	3	2744	0	KED
	Y	89		ug/L			329848	564938	0	Standard
	Kr	83		ug/L			67	86	14	Standard
>	In-1	115		ug/L			10660	10355	3	KED
	Cd	111	0.156	ug/L	0.015	9	4	58	5	KED
	Cd	114	0.156	ug/L	0.013	8	3	140	11	KED
>	In	115		ug/L			476658	469011	1	Standard
	Ag	107	0.142	ug/L	0.002	1	62	2496	2	Standard
>	Tb	159		ug/L			1242145	1225538	1	Standard
	Pb	208	14.577	ug/L	0.184	1	218	1287714	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0417-14
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 18:33:10
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			43168	76341	0	Standard
Cl	37		ug/L			7031855	6519950	2	Standard
> Sc	45		ug/L			700785	906516	2	Standard
Cr	52	14.484	ug/L	0.205	1	17028	485579	1	Standard
Cr	53	14.839	ug/L	0.035	0	213	54125	2	Standard
> Ge	72		ug/L			49353	47075	0	KED
Ni	60	14.362	ug/L	0.185	1	16	24660	0	KED
Ni	62	14.352	ug/L	0.365	2	8	4002	2	KED
Cu	63	28.388	ug/L	0.201	0	50	134912	0	KED
Cu	65	28.108	ug/L	0.476	1	26	68421	2	KED
Zn	66	55.935	ug/L	0.796	1	28	38318	1	KED
Zn	67	55.876	ug/L	0.704	1	3	6222	0	KED
As	75	7.054	ug/L	0.218	3	3	2464	2	KED
Y	89		ug/L			329848	685123	1	Standard
Kr	83		ug/L			67	112	21	Standard
> In-1	115		ug/L			10660	9917	5	KED
Cd	111	0.329	ug/L	0.030	9	4	113	5	KED
Cd	114	0.312	ug/L	0.026	8	3	264	3	KED
> In	115		ug/L			476658	485391	1	Standard
Ag	107	0.230	ug/L	0.002	0	62	4147	0	Standard
> Tb	159		ug/L			1242145	1213344	1	Standard
Pb	208	12.315	ug/L	0.207	1	218	1077008	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0417-15
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 18:37:35
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43168	81461	0	Standard
	Cl	37		ug/L			7031855	6766151	2	Standard
>	Sc	45		ug/L			700785	797531	0	Standard
	Cr	52	11.575	ug/L	0.251	2	17028	345329	1	Standard
	Cr	53	11.774	ug/L	0.129	1	213	37834	1	Standard
>	Ge	72		ug/L			49353	46906	1	KED
	Ni	60	9.266	ug/L	0.261	2	16	15856	2	KED
	Ni	62	9.044	ug/L	0.173	1	8	2516	3	KED
	Cu	63	22.313	ug/L	0.203	0	50	105665	1	KED
	Cu	65	22.681	ug/L	0.275	1	26	55016	2	KED
	Zn	66	50.982	ug/L	0.714	1	28	34795	0	KED
	Zn	67	49.186	ug/L	1.477	3	3	5459	4	KED
	As	75	4.068	ug/L	0.101	2	3	1417	1	KED
	Y	89		ug/L			329848	539381	1	Standard
	Kr	83		ug/L			67	90	16	Standard
>	In-1	115		ug/L			10660	10225	1	KED
	Cd	111	0.105	ug/L	0.011	10	4	40	8	KED
	Cd	114	0.104	ug/L	0.021	20	3	93	20	KED
>	In	115		ug/L			476658	469773	1	Standard
	Ag	107	0.098	ug/L	0.003	3	62	1741	1	Standard
>	Tb	159		ug/L			1242145	1239543	1	Standard
	Pb	208	14.442	ug/L	0.232	1	218	1290225	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0420-01
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 18:42:01
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			43168	94366	1	Standard
Cl	37		ug/L			7031855	6433201	3	Standard
Sc	45		ug/L			700785	887486	2	Standard
Cr	52	13.328	ug/L	0.227	1	17028	439170	1	Standard
Cr	53	13.596	ug/L	0.091	0	213	48575	2	Standard
Ge	72		ug/L			49353	47534	0	KED
Ni	60	13.587	ug/L	0.230	1	16	23559	1	KED
Ni	62	13.652	ug/L	0.489	3	8	3844	3	KED
Cu	63	28.772	ug/L	0.273	0	50	138069	0	KED
Cu	65	28.960	ug/L	0.268	0	26	71174	0	KED
Zn	66	57.442	ug/L	1.117	1	28	39732	2	KED
Zn	67	56.608	ug/L	2.056	3	3	6364	3	KED
As	75	6.442	ug/L	0.102	1	3	2272	1	KED
Y	89		ug/L			329848	629311	2	Standard
Kr	83		ug/L			67	104	16	Standard
In-1	115		ug/L			10660	9911	3	KED
Cd	111	0.176	ug/L	0.019	10	4	62	11	KED
Cd	114	0.150	ug/L	0.022	14	3	128	11	KED
In	115		ug/L			476658	469624	1	Standard
Ag	107	0.147	ug/L	0.004	2	62	2590	1	Standard
Tb	159		ug/L			1242145	1238433	2	Standard
Pb	208	12.474	ug/L	0.249	1	218	1113304	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0420-07
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 18:46:26
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			43168	79899	0	Standard
Cl	37		ug/L			7031855	6442377	2	Standard
Sc	45		ug/L			700785	925774	2	Standard
Cr	52	14.934	ug/L	0.241	1	17028	510614	1	Standard
Cr	53	15.453	ug/L	0.059	0	213	57552	2	Standard
Ge	72		ug/L			49353	47822	1	KED
Ni	60	15.047	ug/L	0.302	2	16	26242	0	KED
Ni	62	15.287	ug/L	0.472	3	8	4328	1	KED
Cu	63	41.462	ug/L	0.401	0	50	200146	1	KED
Cu	65	40.613	ug/L	0.705	1	26	100407	1	KED
Zn	66	71.078	ug/L	0.777	1	28	49451	0	KED
Zn	67	71.147	ug/L	0.097	0	3	8047	1	KED
As	75	8.650	ug/L	0.253	2	3	3068	1	KED
Y	89		ug/L			329848	667202	3	Standard
Kr	83		ug/L			67	119	21	Standard
In-1	115		ug/L			10660	10113	0	KED
Cd	111	0.225	ug/L	0.032	14	4	80	13	KED
Cd	114	0.228	ug/L	0.014	6	3	198	6	KED
In	115		ug/L			476658	477300	1	Standard
Ag	107	0.220	ug/L	0.007	3	62	3893	3	Standard
Tb	159		ug/L			1242145	1227898	1	Standard
Pb	208	20.636	ug/L	0.151	0	218	1826441	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0420-08
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 18:50:52
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43168	87629	1	Standard
	Cl	37		ug/L			7031855	6385397	2	Standard
>	Sc	45		ug/L			700785	868004	2	Standard
	Cr	52	13.091	ug/L	0.066	0	17028	422351	2	Standard
	Cr	53	13.470	ug/L	0.111	0	213	47072	2	Standard
>	Ge	72		ug/L			49353	47347	1	KED
	Ni	60	12.975	ug/L	0.377	2	16	22406	1	KED
	Ni	62	13.334	ug/L	0.358	2	8	3739	1	KED
	Cu	63	32.593	ug/L	0.472	1	50	155772	0	KED
	Cu	65	32.427	ug/L	0.300	0	26	79378	0	KED
	Zn	66	60.429	ug/L	0.771	1	28	41628	0	KED
	Zn	67	59.313	ug/L	0.926	1	3	6642	1	KED
	As	75	5.822	ug/L	0.145	2	3	2046	1	KED
	Y	89		ug/L			329848	604269	4	Standard
	Kr	83		ug/L			67	107	13	Standard
>	In-1	115		ug/L			10660	10255	0	KED
	Cd	111	0.175	ug/L	0.012	7	4	64	7	KED
	Cd	114	0.167	ug/L	0.030	18	3	148	18	KED
>	In	115		ug/L			476658	483869	4	Standard
	Ag	107	0.167	ug/L	0.003	1	62	3023	4	Standard
>	Tb	159		ug/L			1242145	1244306	1	Standard
	Pb	208	15.001	ug/L	0.162	1	218	1345626	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0420-09
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 18:55:18
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			43168	88144	1	Standard
Cl	37		ug/L			7031855	6381041	4	Standard
> Sc	45		ug/L			700785	892538	3	Standard
Cr	52	13.684	ug/L	0.603	4	17028	452609	2	Standard
Cr	53	13.865	ug/L	0.215	1	213	49798	1	Standard
> Ge	72		ug/L			49353	46888	1	KED
Ni	60	13.559	ug/L	0.381	2	16	23185	1	KED
Ni	62	13.327	ug/L	0.418	3	8	3700	1	KED
Cu	63	26.232	ug/L	0.451	1	50	124152	0	KED
Cu	65	26.429	ug/L	0.738	2	26	64071	2	KED
Zn	66	56.226	ug/L	0.709	1	28	38357	0	KED
Zn	67	56.986	ug/L	0.493	0	3	6321	2	KED
As	75	6.230	ug/L	0.082	1	3	2167	0	KED
Y	89		ug/L			329848	673235	4	Standard
Kr	83		ug/L			67	110	13	Standard
> In-1	115		ug/L			10660	10240	0	KED
Cd	111	0.279	ug/L	0.014	5	4	99	5	KED
Cd	114	0.286	ug/L	0.053	18	3	251	18	KED
> In	115		ug/L			476658	473130	2	Standard
Ag	107	0.238	ug/L	0.003	1	62	4180	2	Standard
> Tb	159		ug/L			1242145	1232547	0	Standard
Pb	208	49.390	ug/L	0.149	0	218	4387862	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0419-02
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 18:59:43
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			43168	96310	1	Standard
Cl	37		ug/L			7031855	6419215	2	Standard
> Sc	45		ug/L			700785	884359	2	Standard
Cr	52	12.542	ug/L	0.221	1	17028	413059	0	Standard
Cr	53	12.638	ug/L	0.108	0	213	45015	2	Standard
> Ge	72		ug/L			49353	47157	1	KED
Ni	60	12.730	ug/L	0.416	3	16	21891	1	KED
Ni	62	12.833	ug/L	0.050	0	8	3585	2	KED
Cu	63	29.098	ug/L	0.436	1	50	138509	0	KED
Cu	65	29.100	ug/L	0.591	2	26	70940	0	KED
Zn	66	56.419	ug/L	1.185	2	28	38706	0	KED
Zn	67	55.009	ug/L	1.207	2	3	6137	3	KED
As	75	5.761	ug/L	0.060	1	3	2016	0	KED
Y	89		ug/L			329848	598904	2	Standard
Kr	83		ug/L			67	110	19	Standard
> In-1	115		ug/L			10660	10244	2	KED
Cd	111	0.190	ug/L	0.023	12	4	69	11	KED
Cd	114	0.159	ug/L	0.007	4	3	141	6	KED
> In	115		ug/L			476658	487488	2	Standard
Ag	107	0.137	ug/L	0.003	2	62	2504	2	Standard
> Tb	159		ug/L			1242145	1245240	2	Standard
Pb	208	13.068	ug/L	0.269	2	218	1172717	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0419-03
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 19:04:09
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43168	89693	1	Standard
	Cl	37		ug/L			7031855	6363948	2	Standard
>	Sc	45		ug/L			700785	816616	9	Standard
	Cr	52	13.126	ug/L	1.303	9	17028	395975	0	Standard
	Cr	53	13.463	ug/L	1.427	10	213	43975	2	Standard
>	Ge	72		ug/L			49353	47244	0	KED
	Ni	60	12.207	ug/L	0.122	1	16	21039	1	KED
	Ni	62	12.269	ug/L	0.167	1	8	3434	0	KED
	Cu	63	37.810	ug/L	0.497	1	50	180318	1	KED
	Cu	65	37.707	ug/L	0.269	0	26	92105	1	KED
	Zn	66	57.594	ug/L	1.065	1	28	39591	1	KED
	Zn	67	56.299	ug/L	1.837	3	3	6292	3	KED
	As	75	7.246	ug/L	0.195	2	3	2540	2	KED
	Y	89		ug/L			329848	550728	3	Standard
	Kr	83		ug/L			67	95	7	Standard
>	In-1	115		ug/L			10660	10090	0	KED
	Cd	111	0.069	ug/L	0.011	16	4	27	14	KED
	Cd	114	0.075	ug/L	0.027	35	3	66	34	KED
>	In	115		ug/L			476658	458702	14	Standard
	Ag	107	0.152	ug/L	0.026	16	62	2572	4	Standard
>	Tb	159		ug/L			1242145	1166371	12	Standard
	Pb	208	14.607	ug/L	1.854	12	218	1215687	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV6
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 19:09:40
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43168	43252	1	Standard
	Cl	**37**		ug/L			7031855	6882962	3	Standard
⌈>	**Sc**	**45**		ug/L			700785	692389	1	Standard
|	**Cr**	**52**	**49.570**	ug/L	0.858	1	17028	1228516	0	Standard
⌊	**Cr**	**53**	**50.281**	ug/L	0.764	1	213	139562	1	Standard
⌈>	**Ge**	**72**		ug/L			49353	47740	0	KED
|	**Ni**	**60**	**51.415**	ug/L	0.949	1	16	89487	1	KED
|	**Ni**	**62**	**50.132**	ug/L	1.012	2	8	14155	1	KED
|	**Cu**	**63**	**51.222**	ug/L	0.305	0	50	246833	1	KED
|	**Cu**	**65**	**51.219**	ug/L	0.482	0	26	126408	0	KED
|	**Zn**	**66**	**50.224**	ug/L	0.674	1	28	34891	0	KED
|	**Zn**	**67**	**50.673**	ug/L	0.414	0	3	5723	0	KED
⌊	**As**	**75**	**50.466**	ug/L	0.524	1	3	17855	0	KED
	Y	**89**		ug/L			329848	322231	1	Standard
	Kr	**83**		ug/L			67	59	8	Standard
⌈>	**In-1**	**115**		ug/L			10660	10202	1	KED
|	**Cd**	**111**	**51.329**	ug/L	1.106	2	4	17557	0	KED
⌊	**Cd**	**114**	**51.243**	ug/L	0.846	1	3	44417	0	KED
⌈>	**In**	**115**		ug/L			476658	469676	2	Standard
⌊	**Ag**	**107**	**50.668**	ug/L	1.418	2	62	869329	1	Standard
⌈>	**Tb**	**159**		ug/L			1242145	1223410	0	Standard
⌊	**Pb**	**208**	**52.675**	ug/L	0.260	0	218	4644927	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB6
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 19:16:50
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43168	41382	0	Standard
	Cl	**37**		ug/L			7031855	6750526	1	Standard
⌈>	**Sc**	**45**		ug/L			700785	699928	1	Standard
|	**Cr**	**52**	**-0.014**	ug/L	0.008	57	17028	16656	1	Standard
⌊	**Cr**	**53**	**-0.023**	ug/L	0.001	5	213	149	1	Standard
⌈>	**Ge**	**72**		ug/L			49353	48310	1	KED
|	**Ni**	**60**	**0.007**	ug/L	0.001	17	16	28	6	KED
|	**Ni**	**62**	**-0.010**	ug/L	0.010	100	8	5	57	KED
|	**Cu**	**63**	**0.001**	ug/L	0.002	197	50	53	18	KED
|	**Cu**	**65**	**0.002**	ug/L	0.002	113	26	30	16	KED
|	**Zn**	**66**	**0.021**	ug/L	0.014	65	28	42	21	KED
|	**Zn**	**67**	**0.040**	ug/L	0.010	24	3	8	13	KED
⌊	**As**	**75**	**0.000**	ug/L	0.003	1684	3	3	33	KED
	Y	**89**		ug/L			329848	316768	1	Standard
	Kr	**83**		ug/L			67	60	37	Standard
⌈>	**In-1**	**115**		ug/L			10660	10535	0	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.007	410	4	3	68	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.005	381	3	4	111	KED
⌈>	**In**	**115**		ug/L			476658	494224	1	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.001	116	62	74	16	Standard
⌈>	**Tb**	**159**		ug/L			1242145	1245986	0	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	38	218	284	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0419-01
Sample Dil Factor: 100
Comments:
Sample Date/Time: Tuesday, May 02, 2023 19:21:16
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43168	51156	0	Standard
	Cl	**37**		ug/L			7031855	6674691	3	Standard
⌈>	**Sc**	**45**		ug/L			700785	736662	1	Standard
|	**Cr**	**52**	**2.683**	ug/L	0.018	0	17028	87688	0	Standard
⌊	**Cr**	**53**	**2.717**	ug/L	0.044	1	213	8236	2	Standard
⌈>	**Ge**	**72**		ug/L			49353	49049	0	KED
|	**Ni**	**60**	**3.755**	ug/L	0.089	2	16	6730	1	KED
|	**Ni**	**62**	**3.787**	ug/L	0.163	4	8	1106	3	KED
|	**Cu**	**63**	**7.373**	ug/L	0.079	1	50	36547	0	KED
|	**Cu**	**65**	**7.446**	ug/L	0.114	1	26	18902	1	KED
|	**Zn**	**66**	**36.211**	ug/L	0.338	0	28	25855	0	KED
|	**Zn**	**67**	**35.111**	ug/L	0.374	1	3	4075	1	KED
⌊	**As**	**75**	**2.281**	ug/L	0.042	1	3	832	1	KED
	Y	**89**		ug/L			329848	378154	5	Standard
	Kr	**83**		ug/L			67	48	32	Standard
⌈>	**In-1**	**115**		ug/L			10660	10513	3	KED
|	**Cd**	**111**	**0.040**	ug/L	0.009	23	4	18	18	KED
⌊	**Cd**	**114**	**0.022**	ug/L	0.008	37	3	22	33	KED
⌈>	**In**	**115**		ug/L			476658	487915	0	Standard
⌊	**Ag**	**107**	**0.014**	ug/L	0.000	2	62	320	1	Standard
⌈>	**Tb**	**159**		ug/L			1242145	1227304	1	Standard
⌊	**Pb**	**208**	**3.756**	ug/L	0.049	1	218	332407	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0452-DUP2
Sample Dil Factor: 100
Comments:
Sample Date/Time: Tuesday, May 02, 2023 19:25:42
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43168	51105	1	Standard
	Cl	**37**		ug/L			7031855	6728845	2	Standard
⌈>	**Sc**	**45**		ug/L			700785	734386	1	Standard
|	**Cr**	**52**	**5.883**	ug/L	0.070	1	17028	170382	1	Standard
⌊	**Cr**	**53**	**6.035**	ug/L	0.094	1	213	17966	2	Standard
⌈>	**Ge**	**72**		ug/L			49353	48989	1	KED
|	**Ni**	**60**	**8.396**	ug/L	0.170	2	16	15008	1	KED
|	**Ni**	**62**	**8.589**	ug/L	0.493	5	8	2496	6	KED
|	**Cu**	**63**	**9.460**	ug/L	0.054	0	50	46816	0	KED
|	**Cu**	**65**	**9.516**	ug/L	0.230	2	26	24118	1	KED
|	**Zn**	**66**	**35.625**	ug/L	0.676	1	28	25404	1	KED
|	**Zn**	**67**	**34.303**	ug/L	0.789	2	3	3976	1	KED
⌊	**As**	**75**	**2.731**	ug/L	0.079	2	3	995	1	KED
	Y	**89**		ug/L			329848	373469	1	Standard
	Kr	**83**		ug/L			67	55	16	Standard
⌈>	**In-1**	**115**		ug/L			10660	10547	2	KED
|	**Cd**	**111**	**0.032**	ug/L	0.005	15	4	15	12	KED
⌊	**Cd**	**114**	**0.024**	ug/L	0.006	24	3	24	18	KED
⌈>	**In**	**115**		ug/L			476658	496773	0	Standard
⌊	**Ag**	**107**	**0.016**	ug/L	0.001	8	62	351	6	Standard
⌈>	**Tb**	**159**		ug/L			1242145	1264510	1	Standard
⌊	**Pb**	**208**	**3.577**	ug/L	0.051	1	218	326198	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0452-MS2
Sample Dil Factor: 100
Comments:
Sample Date/Time: Tuesday, May 02, 2023 19:30:07
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43168	52082	0	Standard
	Cl	**37**		ug/L			7031855	6788921	2	Standard
⌈>	**Sc**	**45**		ug/L			700785	726491	1	Standard
|	**Cr**	**52**	**9.158**	ug/L	0.135	1	17028	252575	1	Standard
⌊	**Cr**	**53**	**9.260**	ug/L	0.261	2	213	27147	1	Standard
⌈>	**Ge**	**72**		ug/L			49353	49304	1	KED
|	**Ni**	**60**	**8.902**	ug/L	0.138	1	16	16014	1	KED
|	**Ni**	**62**	**9.150**	ug/L	0.240	2	8	2675	3	KED
|	**Cu**	**63**	**17.844**	ug/L	0.168	0	50	88832	0	KED
|	**Cu**	**65**	**17.792**	ug/L	0.397	2	26	45360	1	KED
|	**Zn**	**66**	**55.759**	ug/L	1.434	2	28	39996	1	KED
|	**Zn**	**67**	**53.234**	ug/L	0.495	0	3	6208	1	KED
⌊	**As**	**75**	**7.857**	ug/L	0.083	1	3	2874	0	KED
	Y	**89**		ug/L			329848	372250	2	Standard
	Kr	**83**		ug/L			67	45	28	Standard
⌈>	**In-1**	**115**		ug/L			10660	9965	9	KED
|	**Cd**	**111**	**5.479**	ug/L	0.645	11	4	1821	2	KED
⌊	**Cd**	**114**	**5.411**	ug/L	0.469	8	3	4561	1	KED
⌈>	**In**	**115**		ug/L			476658	498486	1	Standard
⌊	**Ag**	**107**	**4.960**	ug/L	0.037	0	62	90397	0	Standard
⌈>	**Tb**	**159**		ug/L			1242145	1237993	1	Standard
⌊	**Pb**	**208**	**9.571**	ug/L	0.223	2	218	854015	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0452-MSD2
Sample Dil Factor: 100
Comments:
Sample Date/Time: Tuesday, May 02, 2023 19:34:32
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43168	50390	1	Standard
	Cl	37		ug/L			7031855	6718286	2	Standard
⌈>	Sc	45		ug/L			700785	731324	2	Standard
|	Cr	52	7.800	ug/L	0.026	0	17028	219207	2	Standard
⌊	Cr	53	8.018	ug/L	0.123	1	213	23693	2	Standard
⌈>	Ge	72		ug/L			49353	48464	2	KED
|	Ni	60	8.211	ug/L	0.116	1	16	14522	2	KED
|	Ni	62	8.174	ug/L	0.305	3	8	2349	3	KED
|	Cu	63	13.700	ug/L	0.490	3	50	67022	1	KED
|	Cu	65	13.628	ug/L	0.422	3	26	34148	1	KED
|	Zn	66	62.170	ug/L	1.147	1	28	43830	0	KED
|	Zn	67	59.149	ug/L	2.352	3	3	6777	1	KED
⌊	As	75	9.563	ug/L	0.178	1	3	3437	0	KED
	Y	89		ug/L			329848	385710	2	Standard
	Kr	83		ug/L			67	50	2	Standard
⌈>	In-1	115		ug/L			10660	10348	2	KED
|	Cd	111	4.995	ug/L	0.093	1	4	1736	0	KED
⌊	Cd	114	5.092	ug/L	0.080	1	3	4479	1	KED
⌈>	In	115		ug/L			476658	498121	1	Standard
⌊	Ag	107	4.861	ug/L	0.053	1	62	88537	1	Standard
⌈>	Tb	159		ug/L			1242145	1264788	0	Standard
⌊	Pb	208	10.093	ug/L	0.066	0	218	920337	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0452-PS2
Sample Dil Factor: 100
Comments:
Sample Date/Time: Tuesday, May 02, 2023 19:38:58

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43168	53480	1	Standard
	Cl	**37**		ug/L			7031855	6708681	2	Standard
⌈>	**Sc**	**45**		ug/L			700785	734416	1	Standard
|	**Cr**	**52**	**2.708**	ug/L	0.031	1	17028	88076	2	Standard
⌊	**Cr**	**53**	**2.751**	ug/L	0.054	1	213	8310	0	Standard
⌈>	**Ge**	**72**		ug/L			49353	48750	1	KED
|	**Ni**	**60**	**3.704**	ug/L	0.078	2	16	6597	1	KED
|	**Ni**	**62**	**3.756**	ug/L	0.121	3	8	1090	3	KED
|	**Cu**	**63**	**7.570**	ug/L	0.064	0	50	37291	0	KED
|	**Cu**	**65**	**7.637**	ug/L	0.161	2	26	19268	1	KED
|	**Zn**	**66**	**36.679**	ug/L	0.617	1	28	26026	0	KED
|	**Zn**	**67**	**34.752**	ug/L	0.628	1	3	4008	0	KED
⌊	**As**	**75**	**2.285**	ug/L	0.063	2	3	829	2	KED
	Y	**89**		ug/L			329848	374951	3	Standard
	Kr	**83**		ug/L			67	57	19	Standard
⌈>	**In-1**	**115**		ug/L			10660	10339	0	KED
|	**Cd**	**111**	**0.043**	ug/L	0.007	15	4	19	13	KED
⌊	**Cd**	**114**	**0.036**	ug/L	0.004	12	3	34	11	KED
⌈>	**In**	**115**		ug/L			476658	487587	1	Standard
⌊	**Ag**	**107**	**0.017**	ug/L	0.000	2	62	363	2	Standard
⌈>	**Tb**	**159**		ug/L			1242145	1269427	1	Standard
⌊	**Pb**	**208**	**3.648**	ug/L	0.041	1	218	333987	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0420-04
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 19:43:18
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43168	87230	2	Standard
	Cl	**37**		ug/L			7031855	6496788	2	Standard
⌈>	**Sc**	**45**		ug/L			700785	808715	0	Standard
|	**Cr**	**52**	**16.535**	ug/L	0.125	0	17028	491840	0	Standard
⌊	**Cr**	**53**	**16.763**	ug/L	0.329	1	213	54517	1	Standard
⌈>	**Ge**	**72**		ug/L			49353	46218	0	KED
|	**Ni**	**60**	**23.807**	ug/L	0.125	0	16	40124	0	KED
|	**Ni**	**62**	**23.685**	ug/L	0.341	1	8	6479	1	KED
|	**Cu**	**63**	**39.144**	ug/L	0.604	1	50	182626	1	KED
|	**Cu**	**65**	**39.236**	ug/L	0.242	0	26	93756	0	KED
|	**Zn**	**66**	**142.816**	ug/L	0.780	0	28	96008	0	KED
|	**Zn**	**67**	**135.430**	ug/L	0.687	0	3	14802	0	KED
⌊	**As**	**75**	**16.491**	ug/L	0.125	0	3	5651	0	KED
	Y	**89**		ug/L			329848	505125	4	Standard
	Kr	**83**		ug/L			67	151	8	Standard
⌈>	**In-1**	**115**		ug/L			10660	10024	2	KED
|	**Cd**	**111**	**0.235**	ug/L	0.014	5	4	82	4	KED
⌊	**Cd**	**114**	**0.205**	ug/L	0.018	8	3	177	8	KED
⌈>	**In**	**115**		ug/L			476658	478419	2	Standard
⌊	**Ag**	**107**	**0.122**	ug/L	0.003	2	62	2188	1	Standard
⌈>	**Tb**	**159**		ug/L			1242145	1174954	1	Standard
⌊	**Pb**	**208**	**39.797**	ug/L	0.424	1	218	3370000	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0419-04
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 19:47:43
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43168	76434	1	Standard
	Cl	37		ug/L			7031855	6425664	2	Standard
⌈>	Sc	45		ug/L			700785	813508	3	Standard
|	Cr	52	10.740	ug/L	0.271	2	17028	328105	1	Standard
⌊	Cr	53	10.807	ug/L	0.398	3	213	35411	0	Standard
⌈>	Ge	72		ug/L			49353	46965	1	KED
|	Ni	60	9.476	ug/L	0.158	1	16	16238	1	KED
|	Ni	62	9.216	ug/L	0.154	1	8	2566	2	KED
|	Cu	63	36.699	ug/L	0.887	2	50	173957	1	KED
|	Cu	65	36.506	ug/L	0.794	2	26	88625	0	KED
|	Zn	66	47.690	ug/L	0.932	1	28	32590	0	KED
|	Zn	67	46.214	ug/L	0.536	1	3	5134	1	KED
⌊	As	75	2.338	ug/L	0.065	2	3	817	1	KED
	Y	89		ug/L			329848	542199	0	Standard
	Kr	83		ug/L			67	76	12	Standard
⌈>	In-1	115		ug/L			10660	10208	1	KED
|	Cd	111	0.059	ug/L	0.009	14	4	24	13	KED
⌊	Cd	114	0.046	ug/L	0.007	15	3	42	13	KED
⌈>	In	115		ug/L			476658	495385	1	Standard
⌊	Ag	107	0.076	ug/L	0.002	3	62	1448	4	Standard
⌈>	Tb	159		ug/L			1242145	1271998	1	Standard
⌊	Pb	208	13.242	ug/L	0.302	2	218	1213923	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0419-05
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 19:52:09
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43168	74879	1	Standard
	Cl	37		ug/L			7031855	6435024	3	Standard
>	Sc	45		ug/L			700785	793912	0	Standard
	Cr	52	9.778	ug/L	0.046	0	17028	293396	0	Standard
	Cr	53	9.796	ug/L	0.166	1	213	31375	2	Standard
>	Ge	72		ug/L			49353	47815	1	KED
	Ni	60	8.374	ug/L	0.142	1	16	14610	0	KED
	Ni	62	8.610	ug/L	0.430	4	8	2441	4	KED
	Cu	63	21.224	ug/L	0.374	1	50	102453	0	KED
	Cu	65	21.023	ug/L	0.122	0	26	51982	1	KED
	Zn	66	38.479	ug/L	0.966	2	28	26777	1	KED
	Zn	67	37.777	ug/L	0.212	0	3	4274	1	KED
	As	75	5.090	ug/L	0.062	1	3	1807	1	KED
	Y	89		ug/L			329848	524952	1	Standard
	Kr	83		ug/L			67	73	10	Standard
>	In-1	115		ug/L			10660	10219	1	KED
	Cd	111	0.050	ug/L	0.014	28	4	20	22	KED
	Cd	114	0.054	ug/L	0.007	13	3	49	11	KED
>	In	115		ug/L			476658	489130	3	Standard
	Ag	107	0.057	ug/L	0.004	6	62	1081	3	Standard
>	Tb	159		ug/L			1242145	1224750	0	Standard
	Pb	208	15.988	ug/L	0.180	1	218	1411480	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0419-06
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 19:56:34
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43168	74999	0	Standard
	Cl	37		ug/L			7031855	6492432	2	Standard
>	Sc	45		ug/L			700785	802317	1	Standard
	Cr	52	10.814	ug/L	0.256	2	17028	325792	0	Standard
	Cr	53	11.033	ug/L	0.062	0	213	35680	1	Standard
>	Ge	72		ug/L			49353	46871	0	KED
	Ni	60	11.142	ug/L	0.054	0	16	19053	0	KED
	Ni	62	11.368	ug/L	0.220	1	8	3157	1	KED
	Cu	63	19.049	ug/L	0.219	1	50	90150	0	KED
	Cu	65	19.039	ug/L	0.553	2	26	46142	2	KED
	Zn	66	180.599	ug/L	3.191	1	28	123107	1	KED
	Zn	67	172.129	ug/L	2.271	1	3	19077	0	KED
	As	75	7.737	ug/L	0.062	0	3	2690	1	KED
	Y	89		ug/L			329848	573025	0	Standard
	Kr	83		ug/L			67	78	11	Standard
>	In-1	115		ug/L			10660	9995	0	KED
	Cd	111	0.098	ug/L	0.014	14	4	36	12	KED
	Cd	114	0.085	ug/L	0.015	17	3	75	17	KED
>	In	115		ug/L			476658	477498	2	Standard
	Ag	107	0.065	ug/L	0.002	2	62	1189	5	Standard
>	Tb	159		ug/L			1242145	1242845	0	Standard
	Pb	208	15.499	ug/L	0.186	1	218	1388540	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0419-07
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 20:00:59
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43168	83981	1	Standard
	Cl	37		ug/L			7031855	6427022	1	Standard
>	Sc	45		ug/L			700785	844697	2	Standard
	Cr	52	12.260	ug/L	0.121	0	17028	386169	1	Standard
	Cr	53	12.470	ug/L	0.382	3	213	42404	0	Standard
>	Ge	72		ug/L			49353	46772	0	KED
	Ni	60	11.751	ug/L	0.151	1	16	20051	1	KED
	Ni	62	11.929	ug/L	0.307	2	8	3306	2	KED
	Cu	63	26.327	ug/L	0.268	1	50	124317	1	KED
	Cu	65	26.280	ug/L	0.458	1	26	63555	1	KED
	Zn	66	59.860	ug/L	0.264	0	28	40738	0	KED
	Zn	67	57.855	ug/L	0.609	1	3	6401	1	KED
	As	75	8.708	ug/L	0.173	1	3	3022	2	KED
	Y	89		ug/L			329848	565433	4	Standard
	Kr	83		ug/L			67	89	7	Standard
>	In-1	115		ug/L			10660	8022	36	KED
	Cd	111	0.168	ug/L	0.093	55	4	42	17	KED
	Cd	114	0.146	ug/L	0.067	45	3	91	7	KED
>	In	115		ug/L			476658	480225	1	Standard
	Ag	107	0.110	ug/L	0.003	2	62	1995	2	Standard
>	Tb	159		ug/L			1242145	1198866	1	Standard
	Pb	208	12.769	ug/L	0.209	1	218	1103459	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV7
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 20:06:30
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43168	43071	0	Standard
	Cl	**37**		ug/L			7031855	6830705	3	Standard
⌈>	**Sc**	**45**		ug/L			700785	687411	2	Standard
|	**Cr**	**52**	**50.001**	ug/L	0.876	1	17028	1230153	1	Standard
⌊	**Cr**	**53**	**50.570**	ug/L	0.748	1	213	139345	0	Standard
⌈>	**Ge**	**72**		ug/L			49353	46918	0	KED
|	**Ni**	**60**	**51.884**	ug/L	0.660	1	16	88749	0	KED
|	**Ni**	**62**	**50.905**	ug/L	1.026	2	8	14128	2	KED
|	**Cu**	**63**	**51.690**	ug/L	0.492	0	50	244784	0	KED
|	**Cu**	**65**	**51.839**	ug/L	0.390	0	26	125740	1	KED
|	**Zn**	**66**	**51.220**	ug/L	0.592	1	28	34973	1	KED
|	**Zn**	**67**	**52.400**	ug/L	0.489	0	3	5816	1	KED
⌊	**As**	**75**	**50.674**	ug/L	0.076	0	3	17621	0	KED
	Y	**89**		ug/L			329848	318323	4	Standard
	Kr	**83**		ug/L			67	60	21	Standard
⌈>	**In-1**	**115**		ug/L			10660	10062	1	KED
|	**Cd**	**111**	**51.035**	ug/L	0.858	1	4	17221	0	KED
⌊	**Cd**	**114**	**51.938**	ug/L	0.583	1	3	44410	0	KED
⌈>	**In**	**115**		ug/L			476658	462314	4	Standard
⌊	**Ag**	**107**	**51.495**	ug/L	1.896	3	62	868901	1	Standard
⌈>	**Tb**	**159**		ug/L			1242145	1199108	1	Standard
⌊	**Pb**	**208**	**54.242**	ug/L	0.494	0	218	4687733	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB7
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 20:13:40
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43168	42264	2	Standard
	Cl	**37**		ug/L			7031855	6762076	1	Standard
⌈>	**Sc**	**45**		ug/L			700785	692196	2	Standard
|	**Cr**	**52**	**0.007**	ug/L	0.010	150	17028	16978	2	Standard
⌊	**Cr**	**53**	**-0.019**	ug/L	0.009	48	213	158	13	Standard
⌈>	**Ge**	**72**		ug/L			49353	49359	1	KED
|	**Ni**	**60**	**0.006**	ug/L	0.005	78	16	27	31	KED
|	**Ni**	**62**	**0.002**	ug/L	0.014	622	8	8	44	KED
|	**Cu**	**63**	**0.002**	ug/L	0.003	143	50	59	22	KED
|	**Cu**	**65**	**0.000**	ug/L	0.001	145	26	27	7	KED
|	**Zn**	**66**	**0.004**	ug/L	0.019	442	28	31	44	KED
|	**Zn**	**67**	**0.016**	ug/L	0.017	102	3	5	33	KED
⌊	**As**	**75**	**0.006**	ug/L	0.005	83	3	6	29	KED
	Y	**89**		ug/L			329848	326281	2	Standard
	Kr	**83**		ug/L			67	55	22	Standard
⌈>	**In-1**	**115**		ug/L			10660	10410	2	KED
|	**Cd**	**111**	**0.003**	ug/L	0.011	358	4	5	75	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.001	190	3	2	53	KED
⌈>	**In**	**115**		ug/L			476658	483975	2	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.001	99	62	73	12	Standard
⌈>	**Tb**	**159**		ug/L			1242145	1231454	2	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	37	218	317	12	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0419-08
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 20:18:06
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43168	78494	1	Standard
	Cl	37		ug/L			7031855	6535721	3	Standard
>	Sc	45		ug/L			700785	782870	7	Standard
	Cr	52	14.043	ug/L	1.023	7	17028	405759	1	Standard
	Cr	53	14.122	ug/L	0.842	5	213	44362	2	Standard
>	Ge	72		ug/L			49353	47315	1	KED
	Ni	60	13.436	ug/L	0.410	3	16	23181	1	KED
	Ni	62	13.636	ug/L	0.442	3	8	3821	2	KED
	Cu	63	27.459	ug/L	0.698	2	50	131123	0	KED
	Cu	65	27.686	ug/L	0.409	1	26	67722	0	KED
	Zn	66	58.555	ug/L	1.305	2	28	40303	0	KED
	Zn	67	57.684	ug/L	1.747	3	3	6454	2	KED
	As	75	6.219	ug/L	0.069	1	3	2184	2	KED
	Y	89		ug/L			329848	513733	7	Standard
	Kr	83		ug/L			67	94	6	Standard
>	In-1	115		ug/L			10660	10196	1	KED
	Cd	111	0.047	ug/L	0.003	5	4	20	4	KED
	Cd	114	0.073	ug/L	0.010	14	3	65	12	KED
>	In	115		ug/L			476658	453614	10	Standard
	Ag	107	0.089	ug/L	0.005	5	62	1531	11	Standard
>	Tb	159		ug/L			1242145	1145928	9	Standard
	Pb	208	23.046	ug/L	2.344	10	218	1890855	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0419-09
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 20:22:32
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43168	79927	1	Standard
	Cl	37		ug/L			7031855	6578533	3	Standard
>	Sc	45		ug/L			700785	836218	1	Standard
	Cr	52	17.228	ug/L	0.236	1	17028	528956	0	Standard
	Cr	53	17.351	ug/L	0.091	0	213	58335	0	Standard
>	Ge	72		ug/L			49353	47646	0	KED
	Ni	60	13.689	ug/L	0.106	0	16	23791	0	KED
	Ni	62	13.471	ug/L	0.596	4	8	3801	3	KED
	Cu	63	30.529	ug/L	0.063	0	50	146842	0	KED
	Cu	65	30.556	ug/L	0.279	0	26	75272	0	KED
	Zn	66	81.756	ug/L	0.605	0	28	56670	0	KED
	Zn	67	79.430	ug/L	1.663	2	3	8950	1	KED
	As	75	6.315	ug/L	0.099	1	3	2233	1	KED
	Y	89		ug/L			329848	566533	0	Standard
	Kr	83		ug/L			67	102	3	Standard
>	In-1	115		ug/L			10660	10017	2	KED
	Cd	111	0.174	ug/L	0.019	10	4	62	9	KED
	Cd	114	0.143	ug/L	0.006	3	3	124	6	KED
>	In	115		ug/L			476658	493791	2	Standard
	Ag	107	0.149	ug/L	0.004	2	62	2760	3	Standard
>	Tb	159		ug/L			1242145	1220076	1	Standard
	Pb	208	20.069	ug/L	0.260	1	218	1764746	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0419-10
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 20:26:58
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43168	75591	1	Standard
	Cl	37		ug/L			7031855	6454551	2	Standard
>	Sc	45		ug/L			700785	811395	2	Standard
	Cr	52	9.765	ug/L	0.237	2	17028	299381	1	Standard
	Cr	53	10.052	ug/L	0.186	1	213	32886	0	Standard
>	Ge	72		ug/L			49353	47628	1	KED
	Ni	60	9.842	ug/L	0.277	2	16	17099	1	KED
	Ni	62	9.972	ug/L	0.365	3	8	2814	2	KED
	Cu	63	16.542	ug/L	0.469	2	50	79542	2	KED
	Cu	65	16.576	ug/L	0.458	2	26	40820	1	KED
	Zn	66	36.017	ug/L	0.998	2	28	24964	1	KED
	Zn	67	35.759	ug/L	1.069	2	3	4029	1	KED
	As	75	5.427	ug/L	0.149	2	3	1918	2	KED
	Y	89		ug/L			329848	537371	2	Standard
	Kr	83		ug/L			67	82	10	Standard
>	In-1	115		ug/L			10660	10257	1	KED
	Cd	111	0.044	ug/L	0.017	39	4	19	30	KED
	Cd	114	0.038	ug/L	0.008	20	3	36	18	KED
>	In	115		ug/L			476658	489574	1	Standard
	Ag	107	0.075	ug/L	0.004	4	62	1412	2	Standard
>	Tb	159		ug/L			1242145	1240123	0	Standard
	Pb	208	14.153	ug/L	0.069	0	218	1265190	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0419-11
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 20:31:24
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43168	81276	1	Standard
	Cl	37		ug/L			7031855	6446721	2	Standard
>	Sc	45		ug/L			700785	865510	1	Standard
	Cr	52	12.149	ug/L	0.257	2	17028	392264	0	Standard
	Cr	53	12.297	ug/L	0.127	1	213	42874	2	Standard
>	Ge	72		ug/L			49353	46836	1	KED
	Ni	60	12.601	ug/L	0.690	5	16	21519	4	KED
	Ni	62	12.760	ug/L	0.696	5	8	3538	3	KED
	Cu	63	24.986	ug/L	1.124	4	50	118095	3	KED
	Cu	65	24.694	ug/L	1.085	4	26	59777	2	KED
	Zn	66	50.562	ug/L	2.279	4	28	34445	2	KED
	Zn	67	50.347	ug/L	3.023	6	3	5575	4	KED
	As	75	6.057	ug/L	0.316	5	3	2104	4	KED
	Y	89		ug/L			329848	590990	3	Standard
	Kr	83		ug/L			67	102	23	Standard
>	In-1	115		ug/L			10660	9812	2	KED
	Cd	111	0.179	ug/L	0.017	9	4	62	7	KED
	Cd	114	0.159	ug/L	0.019	11	3	135	10	KED
>	In	115		ug/L			476658	474859	2	Standard
	Ag	107	0.121	ug/L	0.002	1	62	2169	1	Standard
>	Tb	159		ug/L			1242145	1197106	1	Standard
	Pb	208	10.847	ug/L	0.344	3	218	935731	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0419-12
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 20:35:50
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43168	81517	1	Standard
	Cl	37		ug/L			7031855	6413954	3	Standard
>	Sc	45		ug/L			700785	843417	1	Standard
	Cr	52	12.935	ug/L	0.265	2	17028	405803	3	Standard
	Cr	53	13.225	ug/L	0.115	0	213	44913	1	Standard
>	Ge	72		ug/L			49353	46142	1	KED
	Ni	60	11.528	ug/L	0.166	1	16	19401	0	KED
	Ni	62	11.440	ug/L	0.290	2	8	3127	0	KED
	Cu	63	33.178	ug/L	0.126	0	50	154542	1	KED
	Cu	65	33.199	ug/L	0.314	0	26	79194	0	KED
	Zn	66	63.286	ug/L	1.562	2	28	42475	0	KED
	Zn	67	61.650	ug/L	1.747	2	3	6729	3	KED
	As	75	7.786	ug/L	0.098	1	3	2665	0	KED
	Y	89		ug/L			329848	562053	0	Standard
	Kr	83		ug/L			67	93	9	Standard
>	In-1	115		ug/L			10660	9939	1	KED
	Cd	111	0.236	ug/L	0.024	10	4	82	11	KED
	Cd	114	0.243	ug/L	0.011	4	3	208	2	KED
>	In	115		ug/L			476658	481510	1	Standard
	Ag	107	0.157	ug/L	0.009	5	62	2826	5	Standard
>	Tb	159		ug/L			1242145	1220437	2	Standard
	Pb	208	16.356	ug/L	0.307	1	218	1438565	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0752-01
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 20:40:16
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43168	101687	0	Standard
	Cl	37		ug/L			7031855	6469968	3	Standard
⌈>	Sc	45		ug/L			700785	852549	3	Standard
|	Cr	52	14.192	ug/L	0.526	3	17028	447611	0	Standard
⌊	Cr	53	14.428	ug/L	0.277	1	213	49480	1	Standard
⌈>	Ge	72		ug/L			49353	46411	0	KED
|	Ni	60	13.847	ug/L	0.300	2	16	23438	1	KED
|	Ni	62	13.882	ug/L	0.134	0	8	3816	0	KED
|	Cu	63	38.584	ug/L	0.424	1	50	180756	0	KED
|	Cu	65	38.099	ug/L	0.217	0	26	91415	0	KED
|	Zn	66	72.651	ug/L	1.535	2	28	49052	1	KED
|	Zn	67	71.136	ug/L	1.474	2	3	7808	1	KED
⌊	As	75	8.926	ug/L	0.028	0	3	3073	0	KED
	Y	89		ug/L			329848	593025	3	Standard
	Kr	83		ug/L			67	106	13	Standard
⌈>	In-1	115		ug/L			10660	9934	1	KED
|	Cd	111	0.247	ug/L	0.034	13	4	86	11	KED
⌊	Cd	114	0.213	ug/L	0.015	7	3	182	5	KED
⌈>	In	115		ug/L			476658	481127	2	Standard
⌊	Ag	107	0.189	ug/L	0.003	1	62	3390	4	Standard
⌈>	Tb	159		ug/L			1242145	1221274	0	Standard
⌊	Pb	208	19.476	ug/L	0.322	1	218	1714466	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0752-02
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 20:44:42
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43168	95785	0	Standard
	Cl	37		ug/L			7031855	6466175	1	Standard
>	Sc	45		ug/L			700785	838845	2	Standard
	Cr	52	14.034	ug/L	0.242	1	17028	435964	0	Standard
	Cr	53	14.181	ug/L	0.229	1	213	47864	1	Standard
>	Ge	72		ug/L			49353	46189	0	KED
	Ni	60	12.434	ug/L	0.078	0	16	20951	0	KED
	Ni	62	12.429	ug/L	0.087	0	8	3401	1	KED
	Cu	63	33.218	ug/L	0.351	1	50	154879	0	KED
	Cu	65	32.905	ug/L	0.417	1	26	78585	1	KED
	Zn	66	62.074	ug/L	0.299	0	28	41717	0	KED
	Zn	67	61.297	ug/L	0.681	1	3	6697	1	KED
	As	75	5.235	ug/L	0.076	1	3	1795	2	KED
	Y	89		ug/L			329848	570141	3	Standard
	Kr	83		ug/L			67	113	11	Standard
>	In-1	115		ug/L			10660	9916	3	KED
	Cd	111	0.178	ug/L	0.019	10	4	62	6	KED
	Cd	114	0.194	ug/L	0.020	10	3	166	10	KED
>	In	115		ug/L			476658	490303	1	Standard
	Ag	107	0.148	ug/L	0.002	1	62	2716	2	Standard
>	Tb	159		ug/L			1242145	1214711	0	Standard
	Pb	208	22.330	ug/L	0.159	0	218	1955213	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0752-03
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 20:49:08
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43168	96614	0	Standard
	Cl	37		ug/L			7031855	6424024	2	Standard
>	Sc	45		ug/L			700785	832930	2	Standard
	Cr	52	12.152	ug/L	0.130	1	17028	377629	1	Standard
	Cr	53	12.251	ug/L	0.107	0	213	41102	1	Standard
>	Ge	72		ug/L			49353	45895	1	KED
	Ni	60	11.929	ug/L	0.204	1	16	19970	0	KED
	Ni	62	11.760	ug/L	0.073	0	8	3198	1	KED
	Cu	63	27.446	ug/L	0.206	0	50	127171	1	KED
	Cu	65	27.746	ug/L	0.462	1	26	65835	0	KED
	Zn	66	59.834	ug/L	1.392	2	28	39954	2	KED
	Zn	67	58.147	ug/L	0.727	1	3	6313	1	KED
	As	75	5.407	ug/L	0.081	1	3	1842	1	KED
	Y	89		ug/L			329848	558845	3	Standard
	Kr	83		ug/L			67	98	6	Standard
>	In-1	115		ug/L			10660	10005	2	KED
	Cd	111	0.164	ug/L	0.017	10	4	58	8	KED
	Cd	114	0.175	ug/L	0.018	10	3	151	8	KED
>	In	115		ug/L			476658	484425	0	Standard
	Ag	107	0.125	ug/L	0.005	4	62	2272	3	Standard
>	Tb	159		ug/L			1242145	1219626	2	Standard
	Pb	208	13.902	ug/L	0.237	1	218	1221944	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0752-04
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 20:53:34
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43168	98249	2	Standard
	Cl	37		ug/L			7031855	6484014	2	Standard
>	Sc	45		ug/L			700785	851651	0	Standard
	Cr	52	14.552	ug/L	0.121	0	17028	458341	1	Standard
	Cr	53	14.780	ug/L	0.182	1	213	50645	0	Standard
>	Ge	72		ug/L			49353	45942	1	KED
	Ni	60	15.191	ug/L	0.389	2	16	25449	1	KED
	Ni	62	15.313	ug/L	0.572	3	8	4165	1	KED
	Cu	63	39.989	ug/L	0.524	1	50	185430	0	KED
	Cu	65	39.537	ug/L	0.425	1	26	93899	0	KED
	Zn	66	86.668	ug/L	1.405	1	28	57926	2	KED
	Zn	67	83.181	ug/L	2.077	2	3	9037	2	KED
	As	75	7.717	ug/L	0.061	0	3	2630	1	KED
	Y	89		ug/L			329848	600251	1	Standard
	Kr	83		ug/L			67	102	18	Standard
>	In-1	115		ug/L			10660	9986	1	KED
	Cd	111	0.199	ug/L	0.020	10	4	70	9	KED
	Cd	114	0.165	ug/L	0.013	7	3	142	8	KED
>	In	115		ug/L			476658	473992	1	Standard
	Ag	107	0.156	ug/L	0.004	2	62	2758	0	Standard
>	Tb	159		ug/L			1242145	1204293	1	Standard
	Pb	208	17.900	ug/L	0.330	1	218	1553653	0	Standard

ICP-MS Quantitative Analysis - Summary Report

06

Sample ID: 23C0752-05

Sample Dil Factor: 20

Comments:

Sample Date/Time: Tuesday, May 02, 2023 20:58:02

MB 5/2/23

Number of Replicates: 3

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth

Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun

Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac

Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43168	97044	0	Standard
	Cl	37		ug/L			7031855	6411935	3	Standard
>	Sc	45		ug/L			700785	839198	2	Standard
	Cr	52	13.441	ug/L	0.432	3	17028	418471	0	Standard
	Cr	53	13.489	ug/L	0.346	2	213	45553	1	Standard
>	Ge	72		ug/L			49353	45817	0	KED
	Ni	60	12.962	ug/L	0.093	0	16	21664	1	KED
	Ni	62	12.663	ug/L	0.359	2	8	3437	2	KED
	Cu	63	32.728	ug/L	0.186	0	50	151375	0	KED
	Cu	65	32.986	ug/L	0.306	0	26	78142	1	KED
	Zn	66	66.855	ug/L	0.625	0	28	44565	0	KED
	Zn	67	65.426	ug/L	0.748	1	3	7090	1	KED
	As	75	8.200	ug/L	0.172	2	3	2787	1	KED
	Y	89		ug/L			329848	579237	3	Standard
	Kr	83		ug/L			67	107	14	Standard
>	In-1	115		ug/L			10660	9850	2	KED
	Cd	111	0.189	ug/L	0.035	18	4	66	15	KED
	Cd	114	0.168	ug/L	0.017	10	3	143	9	KED
>	In	115		ug/L			476658	469874	1	Standard
	Ag	107	0.144	ug/L	0.001	0	62	2537	0	Standard
>	Tb	159		ug/L			1242145	1208988	0	Standard
	Pb	208	15.886	ug/L	0.071	0	218	1384432	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV8
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 21:03:32
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43168	41936	1	Standard
	Cl	**37**		ug/L			7031855	6773602	2	Standard
⌈>	**Sc**	**45**		ug/L			700785	673000	1	Standard
|	**Cr**	**52**	**49.657**	ug/L	0.597	1	17028	1196436	1	Standard
⌊	**Cr**	**53**	**50.329**	ug/L	0.330	0	213	135795	1	Standard
⌈>	**Ge**	**72**		ug/L			49353	46381	0	KED
|	**Ni**	**60**	**51.188**	ug/L	0.680	1	16	86557	0	KED
|	**Ni**	**62**	**50.346**	ug/L	0.696	1	8	13812	1	KED
|	**Cu**	**63**	**51.178**	ug/L	0.746	1	50	239589	1	KED
|	**Cu**	**65**	**51.173**	ug/L	0.781	1	26	122697	0	KED
|	**Zn**	**66**	**51.152**	ug/L	0.153	0	28	34525	0	KED
|	**Zn**	**67**	**51.913**	ug/L	0.286	0	3	5696	0	KED
⌊	**As**	**75**	**50.853**	ug/L	0.490	0	3	17481	0	KED
	Y	**89**		ug/L			329848	314013	1	Standard
	Kr	**83**		ug/L			67	62	12	Standard
⌈>	**In-1**	**115**		ug/L			10660	10004	1	KED
|	**Cd**	**111**	**50.849**	ug/L	1.353	2	4	17055	0	KED
⌊	**Cd**	**114**	**51.129**	ug/L	0.962	1	3	43458	0	KED
⌈>	**In**	**115**		ug/L			476658	468319	2	Standard
⌊	**Ag**	**107**	**50.746**	ug/L	1.807	3	62	867878	0	Standard
⌈>	**Tb**	**159**		ug/L			1242145	1195813	1	Standard
⌊	**Pb**	**208**	**54.508**	ug/L	1.282	2	218	4696678	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB8
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 21:10:43
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43168	41159	2	Standard
	Cl	**37**		ug/L			7031855	6738927	1	Standard
⌈>	**Sc**	**45**		ug/L			700785	681844	1	Standard
|	**Cr**	**52**	**-0.021**	ug/L	0.006	30	17028	16066	1	Standard
⌊	**Cr**	**53**	**-0.025**	ug/L	0.001	4	213	138	2	Standard
⌈>	**Ge**	**72**		ug/L			49353	47223	1	KED
|	**Ni**	**60**	**0.014**	ug/L	0.010	73	16	40	45	KED
|	**Ni**	**62**	**-0.010**	ug/L	0.008	75	8	5	43	KED
|	**Cu**	**63**	**0.001**	ug/L	0.001	57	50	53	5	KED
|	**Cu**	**65**	**-0.001**	ug/L	0.002	393	26	24	22	KED
|	**Zn**	**66**	**0.005**	ug/L	0.004	72	28	31	9	KED
|	**Zn**	**67**	**0.035**	ug/L	0.029	81	3	7	43	KED
⌊	**As**	**75**	**0.003**	ug/L	0.003	86	3	4	20	KED
	Y	**89**		ug/L			329848	311837	2	Standard
	Kr	**83**		ug/L			67	49	10	Standard
⌈>	**In-1**	**115**		ug/L			10660	10542	1	KED
|	**Cd**	**111**	**0.000**	ug/L	0.003	2680	4	4	26	KED
⌊	**Cd**	**114**	**0.003**	ug/L	0.004	152	3	5	68	KED
⌈>	**In**	**115**		ug/L			476658	475119	1	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.000	88	62	71	10	Standard
⌈>	**Tb**	**159**		ug/L			1242145	1203274	0	Standard
⌊	**Pb**	**208**	**0.002**	ug/L	0.000	23	218	367	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0455-02
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 21:15:10
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43168	74680	1	Standard
	Cl	37		ug/L			7031855	6466187	3	Standard
⌈>	Sc	45		ug/L			700785	859316	2	Standard
|	Cr	52	15.081	ug/L	0.343	2	17028	478325	0	Standard
⌊	Cr	53	15.418	ug/L	0.131	0	213	53292	1	Standard
⌈>	Ge	72		ug/L			49353	45221	0	KED
|	Ni	60	14.143	ug/L	0.280	1	16	23326	1	KED
|	Ni	62	14.516	ug/L	0.603	4	8	3888	4	KED
|	Cu	63	42.056	ug/L	0.166	0	50	191975	0	KED
|	Cu	65	42.302	ug/L	0.566	1	26	98892	0	KED
|	Zn	66	71.565	ug/L	0.421	0	28	47085	0	KED
|	Zn	67	70.063	ug/L	1.743	2	3	7495	3	KED
⌊	As	75	8.072	ug/L	0.168	2	3	2708	2	KED
	Y	89		ug/L			329848	608496	2	Standard
	Kr	83		ug/L			67	109	7	Standard
⌈>	In-1	115		ug/L			10660	9747	1	KED
|	Cd	111	0.258	ug/L	0.013	5	4	87	5	KED
⌊	Cd	114	0.226	ug/L	0.020	8	3	189	9	KED
⌈>	In	115		ug/L			476658	470380	1	Standard
⌊	Ag	107	0.200	ug/L	0.004	1	62	3503	1	Standard
⌈>	Tb	159		ug/L			1242145	1212981	0	Standard
⌊	Pb	208	20.025	ug/L	0.147	0	218	1750867	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0455-03
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 21:19:36
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43168	78424	0	Standard
	Cl	37		ug/L			7031855	6414639	2	Standard
>	Sc	45		ug/L			700785	872180	1	Standard
	Cr	52	14.497	ug/L	0.232	1	17028	467610	0	Standard
	Cr	53	14.947	ug/L	0.174	1	213	52450	0	Standard
>	Ge	72		ug/L			49353	43263	5	KED
	Ni	60	15.273	ug/L	0.758	4	16	24054	1	KED
	Ni	62	14.903	ug/L	0.983	6	8	3809	1	KED
	Cu	63	41.142	ug/L	1.510	3	50	179416	2	KED
	Cu	65	41.740	ug/L	2.224	5	26	93171	1	KED
	Zn	66	72.755	ug/L	3.350	4	28	45713	1	KED
	Zn	67	71.452	ug/L	3.492	4	3	7298	1	KED
	As	75	7.317	ug/L	0.384	5	3	2344	1	KED
	Y	89		ug/L			329848	620086	3	Standard
	Kr	83		ug/L			67	109	9	Standard
>	In-1	115		ug/L			10660	9584	0	KED
	Cd	111	0.238	ug/L	0.007	2	4	80	2	KED
	Cd	114	0.228	ug/L	0.030	13	3	188	12	KED
>	In	115		ug/L			476658	475752	2	Standard
	Ag	107	0.189	ug/L	0.008	4	62	3354	5	Standard
>	Tb	159		ug/L			1242145	1202262	0	Standard
	Pb	208	23.229	ug/L	0.294	1	218	2013049	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0455-04
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 21:24:02
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43168	67261	0	Standard
	Cl	37		ug/L			7031855	6534963	2	Standard
>	Sc	45		ug/L			700785	836145	1	Standard
	Cr	52	14.402	ug/L	0.128	0	17028	445554	1	Standard
	Cr	53	14.743	ug/L	0.024	0	213	49602	1	Standard
>	Ge	72		ug/L			49353	45284	0	KED
	Ni	60	16.871	ug/L	0.056	0	16	27865	0	KED
	Ni	62	16.866	ug/L	0.437	2	8	4522	2	KED
	Cu	63	34.593	ug/L	0.656	1	50	158131	1	KED
	Cu	65	34.628	ug/L	0.258	0	26	81074	0	KED
	Zn	66	72.144	ug/L	0.887	1	28	47531	0	KED
	Zn	67	72.277	ug/L	1.046	1	3	7741	1	KED
	As	75	6.349	ug/L	0.064	1	3	2133	1	KED
	Y	89		ug/L			329848	590463	2	Standard
	Kr	83		ug/L			67	102	15	Standard
>	In-1	115		ug/L			10660	9925	1	KED
	Cd	111	0.201	ug/L	0.012	5	4	70	5	KED
	Cd	114	0.151	ug/L	0.006	3	3	129	3	KED
>	In	115		ug/L			476658	462050	1	Standard
	Ag	107	0.159	ug/L	0.006	3	62	2737	3	Standard
>	Tb	159		ug/L			1242145	1208260	1	Standard
	Pb	208	18.474	ug/L	0.309	1	218	1608787	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0455-05
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 21:28:28
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43168	65286	1	Standard
	Cl	37		ug/L			7031855	6400813	2	Standard
>	Sc	45		ug/L			700785	751347	2	Standard
	Cr	52	8.259	ug/L	0.209	2	17028	237281	0	Standard
	Cr	53	8.261	ug/L	0.137	1	213	25068	1	Standard
>	Ge	72		ug/L			49353	45542	0	KED
	Ni	60	7.113	ug/L	0.115	1	16	11823	0	KED
	Ni	62	7.177	ug/L	0.113	1	8	1939	1	KED
	Cu	63	9.634	ug/L	0.164	1	50	44323	1	KED
	Cu	65	9.693	ug/L	0.235	2	26	22839	1	KED
	Zn	66	21.759	ug/L	0.332	1	28	14435	0	KED
	Zn	67	21.437	ug/L	1.044	4	3	2311	4	KED
	As	75	2.020	ug/L	0.052	2	3	685	1	KED
	Y	89		ug/L			329848	474871	2	Standard
	Kr	83		ug/L			67	78	21	Standard
>	In-1	115		ug/L			10660	9783	1	KED
	Cd	111	0.035	ug/L	0.015	41	4	15	32	KED
	Cd	114	0.033	ug/L	0.020	60	3	30	53	KED
>	In	115		ug/L			476658	482983	1	Standard
	Ag	107	0.039	ug/L	0.002	6	62	757	6	Standard
>	Tb	159		ug/L			1242145	1225904	1	Standard
	Pb	208	3.262	ug/L	0.057	1	218	288391	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0455-06
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 21:32:54
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43168	75063	2	Standard
	Cl	37		ug/L			7031855	6392028	2	Standard
>	Sc	45		ug/L			700785	852159	2	Standard
	Cr	52	14.136	ug/L	0.076	0	17028	446113	2	Standard
	Cr	53	14.526	ug/L	0.327	2	213	49799	1	Standard
>	Ge	72		ug/L			49353	44813	1	KED
	Ni	60	13.727	ug/L	0.245	1	16	22438	1	KED
	Ni	62	13.634	ug/L	0.393	2	8	3620	3	KED
	Cu	63	38.459	ug/L	0.755	1	50	173949	0	KED
	Cu	65	38.212	ug/L	0.118	0	26	88533	1	KED
	Zn	66	66.485	ug/L	1.132	1	28	43343	0	KED
	Zn	67	65.490	ug/L	1.854	2	3	6940	1	KED
	As	75	8.287	ug/L	0.170	2	3	2754	1	KED
	Y	89		ug/L			329848	601650	1	Standard
	Kr	83		ug/L			67	113	11	Standard
>	In-1	115		ug/L			10660	9548	1	KED
	Cd	111	0.271	ug/L	0.039	14	4	90	13	KED
	Cd	114	0.280	ug/L	0.039	13	3	229	12	KED
>	In	115		ug/L			476658	472175	3	Standard
	Ag	107	0.196	ug/L	0.002	1	62	3449	4	Standard
>	Tb	159		ug/L			1242145	1188920	0	Standard
	Pb	208	19.979	ug/L	0.213	1	218	1712135	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0455-07
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 21:37:20
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43168	73029	0	Standard
	Cl	37		ug/L			7031855	6348923	3	Standard
>	Sc	45		ug/L			700785	833503	2	Standard
	Cr	52	14.798	ug/L	0.152	1	17028	455740	1	Standard
	Cr	53	14.804	ug/L	0.027	0	213	49651	2	Standard
>	Ge	72		ug/L			49353	44892	1	KED
	Ni	60	13.791	ug/L	0.160	1	16	22581	0	KED
	Ni	62	13.832	ug/L	0.370	2	8	3677	1	KED
	Cu	63	35.235	ug/L	0.213	0	50	159674	1	KED
	Cu	65	35.248	ug/L	0.495	1	26	81801	0	KED
	Zn	66	63.829	ug/L	0.826	1	28	41688	0	KED
	Zn	67	62.037	ug/L	0.636	1	3	6587	0	KED
	As	75	7.416	ug/L	0.163	2	3	2470	1	KED
	Y	89		ug/L			329848	592125	3	Standard
	Kr	83		ug/L			67	100	3	Standard
>	In-1	115		ug/L			10660	9586	3	KED
	Cd	111	0.281	ug/L	0.031	10	4	93	7	KED
	Cd	114	0.209	ug/L	0.001	0	3	173	3	KED
>	In	115		ug/L			476658	463320	2	Standard
	Ag	107	0.180	ug/L	0.007	4	62	3108	3	Standard
>	Tb	159		ug/L			1242145	1188516	0	Standard
	Pb	208	18.007	ug/L	0.367	2	218	1542687	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0455-08
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 21:41:46
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43168	70495	1	Standard
	Cl	37		ug/L			7031855	6359360	3	Standard
>	Sc	45		ug/L			700785	827471	1	Standard
	Cr	52	12.598	ug/L	0.257	2	17028	388177	1	Standard
	Cr	53	12.890	ug/L	0.135	1	213	42951	1	Standard
>	Ge	72		ug/L			49353	44830	0	KED
	Ni	60	12.719	ug/L	0.172	1	16	20801	1	KED
	Ni	62	12.750	ug/L	0.420	3	8	3386	3	KED
	Cu	63	29.836	ug/L	0.404	1	50	135026	1	KED
	Cu	65	29.679	ug/L	0.638	2	26	68791	1	KED
	Zn	66	56.320	ug/L	0.639	1	28	36738	0	KED
	Zn	67	55.352	ug/L	1.578	2	3	5870	3	KED
	As	75	6.145	ug/L	0.101	1	3	2044	1	KED
	Y	89		ug/L			329848	570479	1	Standard
	Kr	83		ug/L			67	125	14	Standard
>	In-1	115		ug/L			10660	9715	1	KED
	Cd	111	0.208	ug/L	0.037	17	4	71	17	KED
	Cd	114	0.173	ug/L	0.031	17	3	145	16	KED
>	In	115		ug/L			476658	469997	0	Standard
	Ag	107	0.154	ug/L	0.003	1	62	2697	1	Standard
>	Tb	159		ug/L			1242145	1186906	2	Standard
	Pb	208	14.549	ug/L	0.356	2	218	1244364	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0455-09
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 21:46:12

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43168	73713	1	Standard
	Cl	37		ug/L			7031855	6298048	3	Standard
>	Sc	45		ug/L			700785	844054	7	Standard
	Cr	52	12.557	ug/L	0.938	7	17028	393381	0	Standard
	Cr	53	12.902	ug/L	0.932	7	213	43693	0	Standard
>	Ge	72		ug/L			49353	44288	1	KED
	Ni	60	14.000	ug/L	0.176	1	16	22615	1	KED
	Ni	62	14.068	ug/L	0.248	1	8	3691	2	KED
	Cu	63	24.607	ug/L	0.399	1	50	110014	0	KED
	Cu	65	24.839	ug/L	0.262	1	26	56883	1	KED
	Zn	66	50.245	ug/L	0.581	1	28	32382	0	KED
	Zn	67	50.594	ug/L	1.240	2	3	5301	2	KED
	As	75	5.810	ug/L	0.144	2	3	1909	1	KED
	Y	89		ug/L			329848	613727	4	Standard
	Kr	83		ug/L			67	123	5	Standard
>	In-1	115		ug/L			10660	9599	0	KED
	Cd	111	0.140	ug/L	0.018	12	4	48	11	KED
	Cd	114	0.136	ug/L	0.025	18	3	113	18	KED
>	In	115		ug/L			476658	440059	10	Standard
	Ag	107	0.121	ug/L	0.012	10	62	1987	2	Standard
>	Tb	159		ug/L			1242145	1123461	8	Standard
	Pb	208	9.463	ug/L	0.825	8	218	762770	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0455-10
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 21:50:38
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43168	73268	3	Standard
	Cl	37		ug/L			7031855	6322947	3	Standard
>	Sc	45		ug/L			700785	832933	0	Standard
	Cr	52	13.501	ug/L	0.250	1	17028	417358	2	Standard
	Cr	53	13.914	ug/L	0.099	0	213	46650	1	Standard
>	Ge	72		ug/L			49353	44016	0	KED
	Ni	60	12.902	ug/L	0.179	1	16	20716	1	KED
	Ni	62	12.610	ug/L	0.286	2	8	3288	2	KED
	Cu	63	33.974	ug/L	0.440	1	50	150958	1	KED
	Cu	65	34.194	ug/L	0.564	1	26	77816	1	KED
	Zn	66	63.259	ug/L	1.020	1	28	40513	1	KED
	Zn	67	62.902	ug/L	1.679	2	3	6549	2	KED
	As	75	7.726	ug/L	0.217	2	3	2523	2	KED
	Y	89		ug/L			329848	554204	2	Standard
	Kr	83		ug/L			67	95	23	Standard
>	In-1	115		ug/L			10660	9606	0	KED
	Cd	111	0.257	ug/L	0.045	17	4	86	16	KED
	Cd	114	0.280	ug/L	0.033	11	3	231	11	KED
>	In	115		ug/L			476658	466094	3	Standard
	Ag	107	0.211	ug/L	0.008	3	62	3659	4	Standard
>	Tb	159		ug/L			1242145	1191577	0	Standard
	Pb	208	18.296	ug/L	0.256	1	218	1571495	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0455-11
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 21:55:04
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43168	81519	0	Standard
	Cl	37		ug/L			7031855	6326361	3	Standard
>	Sc	45		ug/L			700785	836405	2	Standard
	Cr	52	13.579	ug/L	0.323	2	17028	421204	0	Standard
	Cr	53	13.895	ug/L	0.247	1	213	46769	1	Standard
>	Ge	72		ug/L			49353	44685	0	KED
	Ni	60	13.441	ug/L	0.130	0	16	21908	1	KED
	Ni	62	13.556	ug/L	0.473	3	8	3588	3	KED
	Cu	63	32.035	ug/L	0.536	1	50	144509	1	KED
	Cu	65	32.310	ug/L	0.170	0	26	74647	0	KED
	Zn	66	62.596	ug/L	0.673	1	28	40698	0	KED
	Zn	67	62.383	ug/L	1.566	2	3	6593	2	KED
	As	75	6.457	ug/L	0.170	2	3	2141	2	KED
	Y	89		ug/L			329848	583268	3	Standard
	Kr	83		ug/L			67	97	20	Standard
>	In-1	115		ug/L			10660	9574	0	KED
	Cd	111	0.223	ug/L	0.044	19	4	75	17	KED
	Cd	114	0.205	ug/L	0.025	11	3	169	12	KED
>	In	115		ug/L			476658	466152	2	Standard
	Ag	107	0.151	ug/L	0.002	1	62	2641	3	Standard
>	Tb	159		ug/L			1242145	1176959	0	Standard
	Pb	208	15.721	ug/L	0.003	0	218	1333795	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV9
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 22:00:35
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			43168	42084	2	Standard
	Cl	37		ug/L			7031855	6710553	2	Standard
>	Sc	45		ug/L			700785	652072	1	Standard
	Cr	52	50.587	ug/L	0.221	0	17028	1180656	1	Standard
	Cr	53	51.179	ug/L	0.622	1	213	133794	1	Standard
>	Ge	72		ug/L			49353	41913	10	KED
	Ni	60	55.234	ug/L	5.595	10	16	83803	1	KED
	Ni	62	53.906	ug/L	5.127	9	8	13274	1	KED
	Cu	63	55.128	ug/L	5.646	10	50	231547	1	KED
	Cu	65	55.475	ug/L	6.760	12	26	119173	1	KED
	Zn	66	54.054	ug/L	5.892	10	28	32718	1	KED
	Zn	67	54.746	ug/L	3.459	6	3	5404	4	KED
	As	75	54.166	ug/L	5.409	9	3	16708	1	KED
	Y	89		ug/L			329848	311046	1	Standard
	Kr	83		ug/L			67	69	14	Standard
>	In-1	115		ug/L			10660	9761	0	KED
	Cd	111	51.266	ug/L	0.805	1	4	16781	1	KED
	Cd	114	51.379	ug/L	1.364	2	3	42613	2	KED
>	In	115		ug/L			476658	458937	1	Standard
	Ag	107	50.789	ug/L	0.798	1	62	851570	0	Standard
>	Tb	159		ug/L			1242145	1191357	0	Standard
	Pb	208	54.506	ug/L	0.731	1	218	4680501	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB9
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 22:07:45
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			43168	41351	2	Standard
	Cl	**37**		ug/L			7031855	6652998	3	Standard
⌈>	**Sc**	**45**		ug/L			700785	662881	2	Standard
|	**Cr**	**52**	**-0.013**	ug/L	0.024	183	17028	15799	1	Standard
⌊	**Cr**	**53**	**-0.028**	ug/L	0.004	13	213	126	8	Standard
⌈>	**Ge**	**72**		ug/L			49353	45783	0	KED
|	**Ni**	**60**	**0.013**	ug/L	0.010	75	16	37	43	KED
|	**Ni**	**62**	**-0.002**	ug/L	0.004	163	8	6	15	KED
|	**Cu**	**63**	**0.001**	ug/L	0.002	126	50	53	16	KED
|	**Cu**	**65**	**-0.002**	ug/L	0.004	224	26	20	41	KED
|	**Zn**	**66**	**0.023**	ug/L	0.005	23	28	41	7	KED
|	**Zn**	**67**	**0.026**	ug/L	0.045	170	3	6	75	KED
⌊	**As**	**75**	**0.003**	ug/L	0.002	66	3	4	15	KED
	Y	**89**		ug/L			329848	311690	1	Standard
	Kr	**83**		ug/L			67	55	14	Standard
⌈>	**In-1**	**115**		ug/L			10660	10139	2	KED
|	**Cd**	**111**	**0.003**	ug/L	0.006	170	4	5	39	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.001	183	3	2	46	KED
⌈>	**In**	**115**		ug/L			476658	471194	0	Standard
⌊	**Ag**	**107**	**0.003**	ug/L	0.003	108	62	112	48	Standard
⌈>	**Tb**	**159**		ug/L			1242145	1199932	0	Standard
⌊	**Pb**	**208**	**0.003**	ug/L	0.004	132	218	499	75	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 22:12:12
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				40446	1	Standard
	Cl	**37**		ug/L				6595246	2	Standard
⌈>	**Sc**	**45**		ug/L				655530	0	Standard
|	**Cr**	**52**		ug/L				15680	0	Standard
⌊	**Cr**	**53**		ug/L				119	9	Standard
⌈>	**Ge**	**72**		ug/L				45192	1	KED
|	**Ni**	**60**		ug/L				27	25	KED
|	**Ni**	**62**		ug/L				3	50	KED
|	**Cu**	**63**		ug/L				59	16	KED
|	**Cu**	**65**		ug/L				19	56	KED
|	**Zn**	**66**		ug/L				38	12	KED
|	**Zn**	**67**		ug/L				8	44	KED
⌊	**As**	**75**		ug/L				3	54	KED
	Y	**89**		ug/L				311569	2	Standard
	Kr	**83**		ug/L				69	11	Standard
⌈>	**In-1**	**115**		ug/L				9412	1	KED
|	**Cd**	**111**		ug/L				3	41	KED
⌊	**Cd**	**114**		ug/L				4	93	KED
⌈>	**In**	**115**		ug/L				462006	2	Standard
⌊	**Ag**	**107**		ug/L				43	18	Standard
⌈>	**Tb**	**159**		ug/L				1183725	0	Standard
⌊	**Pb**	**208**		ug/L				262	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVA
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 22:16:38
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			40446	41690	1	Standard
	Cl	**37**		ug/L			6595246	6797351	2	Standard
⌈>	**Sc**	**45**		ug/L			655530	662554	1	Standard
|	**Cr**	**52**	**49.982**	ug/L	0.369	0	15680	1185132	0	Standard
⌊	**Cr**	**53**	**50.449**	ug/L	0.608	1	119	133921	1	Standard
⌈>	**Ge**	**72**		ug/L			45192	45786	1	KED
|	**Ni**	**60**	**50.494**	ug/L	0.730	1	27	84297	1	KED
|	**Ni**	**62**	**50.538**	ug/L	0.414	0	3	13683	1	KED
|	**Cu**	**63**	**50.964**	ug/L	0.895	1	59	235509	0	KED
|	**Cu**	**65**	**50.928**	ug/L	0.728	1	19	120529	0	KED
|	**Zn**	**66**	**50.265**	ug/L	1.656	3	38	33493	1	KED
|	**Zn**	**67**	**50.969**	ug/L	0.894	1	8	5525	0	KED
⌊	**As**	**75**	**49.914**	ug/L	1.143	2	3	16934	0	KED
	Y	**89**		ug/L			311569	312652	2	Standard
	Kr	**83**		ug/L			69	72	17	Standard
⌈>	**In-1**	**115**		ug/L			9412	9779	0	KED
|	**Cd**	**111**	**50.837**	ug/L	0.506	0	3	16672	1	KED
⌊	**Cd**	**114**	**51.103**	ug/L	0.777	1	4	42467	1	KED
⌈>	**In**	**115**		ug/L			462006	460019	1	Standard
⌊	**Ag**	**107**	**50.522**	ug/L	1.221	2	43	849051	1	Standard
⌈>	**Tb**	**159**		ug/L			1183725	1198528	0	Standard
⌊	**Pb**	**208**	**53.620**	ug/L	0.167	0	262	4632082	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBA
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 22:23:48
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			40446	40040	0	Standard
	Cl	**37**		ug/L			6595246	6760315	2	Standard
⌈>	**Sc**	**45**		ug/L			655530	671678	0	Standard
|	**Cr**	**52**	**-0.011**	ug/L	0.015	134	15680	15796	2	Standard
⌊	**Cr**	**53**	**0.004**	ug/L	0.001	19	119	133	0	Standard
⌈>	**Ge**	**72**		ug/L			45192	46112	0	KED
|	**Ni**	**60**	**-0.003**	ug/L	0.001	26	27	24	4	KED
|	**Ni**	**62**	**0.014**	ug/L	0.007	52	3	7	25	KED
|	**Cu**	**63**	**-0.002**	ug/L	0.002	76	59	48	17	KED
|	**Cu**	**65**	**0.004**	ug/L	0.001	20	19	29	7	KED
|	**Zn**	**66**	**-0.001**	ug/L	0.009	755	38	38	15	KED
|	**Zn**	**67**	**-0.042**	ug/L	0.010	24	8	4	24	KED
⌊	**As**	**75**	**-0.000**	ug/L	0.006	2260	3	3	54	KED
	Y	**89**		ug/L			311569	317214	2	Standard
	Kr	**83**		ug/L			69	59	19	Standard
⌈>	**In-1**	**115**		ug/L			9412	10206	0	KED
|	**Cd**	**111**	**-0.004**	ug/L	0.006	160	3	2	78	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.001	110	4	4	25	KED
⌈>	**In**	**115**		ug/L			462006	471033	1	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.001	65	43	66	22	Standard
⌈>	**Tb**	**159**		ug/L			1183725	1205492	0	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	49	262	299	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0455-12
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 22:28:14
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			40446	71111	0	Standard
Cl	37		ug/L			6595246	6480026	3	Standard
> Sc	45		ug/L			655530	833559	1	Standard
Cr	52	13.216	ug/L	0.161	1	15680	408989	2	Standard
Cr	53	13.385	ug/L	0.196	1	119	44820	2	Standard
> Ge	72		ug/L			45192	44891	0	KED
Ni	60	13.402	ug/L	0.117	0	27	21959	0	KED
Ni	62	13.317	ug/L	0.221	1	3	3538	2	KED
Cu	63	30.005	ug/L	0.559	1	59	135981	1	KED
Cu	65	29.876	ug/L	0.165	0	19	69339	0	KED
Zn	66	59.314	ug/L	1.306	2	38	38756	2	KED
Zn	67	58.222	ug/L	0.941	1	8	6188	1	KED
As	75	6.697	ug/L	0.088	1	3	2231	0	KED
Y	89		ug/L			311569	573378	2	Standard
Kr	83		ug/L			69	99	23	Standard
> In-1	115		ug/L			9412	9653	1	KED
Cd	111	0.175	ug/L	0.018	10	3	60	8	KED
Cd	114	0.174	ug/L	0.018	10	4	148	11	KED
> In	115		ug/L			462006	473716	3	Standard
Ag	107	0.133	ug/L	0.006	4	43	2351	3	Standard
> Tb	159		ug/L			1183725	1198926	2	Standard
Pb	208	13.341	ug/L	0.205	1	262	1152837	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0455-13
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 22:32:40
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			40446	64625	1	Standard
Cl	37		ug/L			6595246	6378814	3	Standard
Sc	45		ug/L			655530	835235	1	Standard
Cr	52	13.034	ug/L	0.124	0	15680	404443	2	Standard
Cr	53	12.992	ug/L	0.111	0	119	43587	0	Standard
Ge	72		ug/L			45192	44873	1	KED
Ni	60	12.941	ug/L	0.256	1	27	21191	0	KED
Ni	62	13.076	ug/L	0.252	1	3	3473	3	KED
Cu	63	29.892	ug/L	0.504	1	59	135415	1	KED
Cu	65	30.400	ug/L	0.623	2	19	70515	0	KED
Zn	66	57.261	ug/L	0.491	0	38	37398	0	KED
Zn	67	56.155	ug/L	1.413	2	8	5965	1	KED
As	75	6.112	ug/L	0.101	1	3	2035	1	KED
Y	89		ug/L			311569	579292	1	Standard
Kr	83		ug/L			69	90	31	Standard
In-1	115		ug/L			9412	9689	0	KED
Cd	111	0.186	ug/L	0.014	7	3	64	7	KED
Cd	114	0.195	ug/L	0.006	3	4	165	3	KED
In	115		ug/L			462006	472566	1	Standard
Ag	107	0.149	ug/L	0.006	4	43	2622	3	Standard
Tb	159		ug/L			1183725	1197318	3	Standard
Pb	208	13.943	ug/L	0.461	3	262	1202612	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0455-14
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 22:37:06
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			40446	65830	1	Standard
Cl	37		ug/L			6595246	6346598	2	Standard
> Sc	45		ug/L			655530	831459	1	Standard
Cr	52	12.617	ug/L	0.169	1	15680	390275	0	Standard
Cr	53	12.893	ug/L	0.094	0	119	43063	1	Standard
> Ge	72		ug/L			45192	45283	0	KED
Ni	60	12.272	ug/L	0.229	1	27	20286	1	KED
Ni	62	12.123	ug/L	0.205	1	3	3249	1	KED
Cu	63	30.421	ug/L	0.343	1	59	139076	0	KED
Cu	65	30.308	ug/L	0.664	2	19	70952	1	KED
Zn	66	57.397	ug/L	0.417	0	38	37832	0	KED
Zn	67	56.440	ug/L	0.224	0	8	6051	0	KED
As	75	6.603	ug/L	0.119	1	3	2219	1	KED
Y	89		ug/L			311569	557377	1	Standard
Kr	83		ug/L			69	104	35	Standard
> In-1	115		ug/L			9412	9857	0	KED
Cd	111	0.211	ug/L	0.032	15	3	73	14	KED
Cd	114	0.168	ug/L	0.026	15	4	145	15	KED
> In	115		ug/L			462006	466208	2	Standard
Ag	107	0.170	ug/L	0.008	4	43	2942	5	Standard
> Tb	159		ug/L			1183725	1192154	1	Standard
Pb	208	16.027	ug/L	0.308	1	262	1377159	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0455-15
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 22:41:33
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			40446	76971	2	Standard
	Cl	37		ug/L			6595246	6422495	3	Standard
>	Sc	45		ug/L			655530	766659	3	Standard
	Cr	52	14.026	ug/L	0.368	2	15680	397925	2	Standard
	Cr	53	14.465	ug/L	0.350	2	119	44514	1	Standard
>	Ge	72		ug/L			45192	40364	18	KED
	Ni	60	18.556	ug/L	4.142	22	27	26556	0	KED
	Ni	62	18.314	ug/L	3.740	20	3	4260	1	KED
	Cu	63	34.049	ug/L	7.719	22	59	134772	1	KED
	Cu	65	33.913	ug/L	7.137	21	19	68897	2	KED
	Zn	66	144.543	ug/L	29.669	20	38	82672	1	KED
	Zn	67	137.025	ug/L	28.064	20	8	12746	1	KED
	As	75	5.274	ug/L	1.240	23	3	1533	1	KED
	Y	89		ug/L			311569	470144	1	Standard
	Kr	83		ug/L			69	88	6	Standard
>	In-1	115		ug/L			9412	9619	1	KED
	Cd	111	0.210	ug/L	0.021	9	3	71	10	KED
	Cd	114	0.197	ug/L	0.023	11	4	165	10	KED
>	In	115		ug/L			462006	472151	1	Standard
	Ag	107	0.084	ug/L	0.001	0	43	1498	1	Standard
>	Tb	159		ug/L			1183725	1192217	1	Standard
	Pb	208	32.232	ug/L	0.230	0	262	2769820	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0455-16
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 22:45:59
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			40446	69146	1	Standard
	Cl	37		ug/L			6595246	6318029	3	Standard
>	Sc	45		ug/L			655530	809568	0	Standard
	Cr	52	13.977	ug/L	0.194	1	15680	418941	1	Standard
	Cr	53	14.197	ug/L	0.160	1	119	46159	1	Standard
>	Ge	72		ug/L			45192	43911	0	KED
	Ni	60	13.266	ug/L	0.172	1	27	21263	1	KED
	Ni	62	13.557	ug/L	0.165	1	3	3522	0	KED
	Cu	63	31.255	ug/L	0.127	0	59	138562	0	KED
	Cu	65	31.375	ug/L	0.269	0	19	71229	1	KED
	Zn	66	62.165	ug/L	0.311	0	38	39732	1	KED
	Zn	67	60.848	ug/L	1.905	3	8	6325	3	KED
	As	75	6.577	ug/L	0.096	1	3	2143	1	KED
	Y	89		ug/L			311569	574461	1	Standard
	Kr	83		ug/L			69	97	4	Standard
>	In-1	115		ug/L			9412	9618	0	KED
	Cd	111	0.192	ug/L	0.011	5	3	65	5	KED
	Cd	114	0.191	ug/L	0.010	4	4	161	4	KED
>	In	115		ug/L			462006	475745	1	Standard
	Ag	107	0.141	ug/L	0.002	1	43	2489	2	Standard
>	Tb	159		ug/L			1183725	1186851	2	Standard
	Pb	208	16.100	ug/L	0.308	1	262	1377092	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0455-17
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 22:50:25
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			40446	72641	1	Standard
	Cl	37		ug/L			6595246	6354576	3	Standard
>	Sc	45		ug/L			655530	790000	1	Standard
	Cr	52	11.836	ug/L	0.137	1	15680	349109	2	Standard
	Cr	53	11.960	ug/L	0.081	0	119	37972	2	Standard
>	Ge	72		ug/L			45192	44341	0	KED
	Ni	60	10.992	ug/L	0.035	0	27	17794	0	KED
	Ni	62	10.608	ug/L	0.235	2	3	2784	1	KED
	Cu	63	30.316	ug/L	0.677	2	59	135708	1	KED
	Cu	65	30.052	ug/L	0.491	1	19	68890	1	KED
	Zn	66	67.172	ug/L	1.505	2	38	43345	1	KED
	Zn	67	64.970	ug/L	1.301	2	8	6820	2	KED
	As	75	9.137	ug/L	0.016	0	3	3005	0	KED
	Y	89		ug/L			311569	536244	1	Standard
	Kr	83		ug/L			69	92	10	Standard
>	In-1	115		ug/L			9412	9446	0	KED
	Cd	111	0.136	ug/L	0.018	12	3	46	12	KED
	Cd	114	0.158	ug/L	0.010	6	4	131	5	KED
>	In	115		ug/L			462006	462731	2	Standard
	Ag	107	0.132	ug/L	0.003	2	43	2282	3	Standard
>	Tb	159		ug/L			1183725	1196486	1	Standard
	Pb	208	14.930	ug/L	0.256	1	262	1287605	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0455-18
Sample Dil Factor: 20
Comments:
Sample Date/Time: Tuesday, May 02, 2023 22:54:51
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			40446	62268	0	Standard
	Cl	37		ug/L			6595246	6441839	4	Standard
>	Sc	45		ug/L			655530	742967	8	Standard
	Cr	52	17.360	ug/L	1.375	7	15680	471134	1	Standard
	Cr	53	17.731	ug/L	1.308	7	119	52649	1	Standard
>	Ge	72		ug/L			45192	44154	0	KED
	Ni	60	22.195	ug/L	0.451	2	27	35749	1	KED
	Ni	62	22.390	ug/L	0.492	2	3	5848	2	KED
	Cu	63	35.120	ug/L	0.199	0	59	156551	0	KED
	Cu	65	34.932	ug/L	0.572	1	19	79736	1	KED
	Zn	66	90.432	ug/L	1.135	1	38	58097	0	KED
	Zn	67	88.339	ug/L	1.659	1	8	9230	2	KED
	As	75	7.013	ug/L	0.122	1	3	2297	1	KED
	Y	89		ug/L			311569	486476	9	Standard
	Kr	83		ug/L			69	94	11	Standard
>	In-1	115		ug/L			9412	9561	1	KED
	Cd	111	0.093	ug/L	0.015	16	3	33	14	KED
	Cd	114	0.088	ug/L	0.012	13	4	76	11	KED
>	In	115		ug/L			462006	440271	11	Standard
	Ag	107	0.073	ug/L	0.012	15	43	1195	6	Standard
>	Tb	159		ug/L			1183725	1092292	10	Standard
	Pb	208	17.108	ug/L	1.891	11	262	1336358	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0099-01
Sample Dil Factor: 5
Comments:
Sample Date/Time: Tuesday, May 02, 2023 22:59:11
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			40446	166461	1	Standard
	Cl	37		ug/L			6595246	6224844	3	Standard
>	Sc	45		ug/L			655530	657867	1	Standard
	Cr	52	7.075	ug/L	0.129	1	15680	180065	1	Standard
	Cr	53	7.082	ug/L	0.033	0	119	18770	1	Standard
>	Ge	72		ug/L			45192	41650	1	KED
	Ni	60	4.441	ug/L	0.033	0	27	6769	2	KED
	Ni	62	4.335	ug/L	0.290	6	3	1070	6	KED
	Cu	63	0.584	ug/L	0.014	2	59	2510	1	KED
	Cu	65	0.594	ug/L	0.026	4	19	1295	3	KED
	Zn	66	18.911	ug/L	0.375	1	38	11488	1	KED
	Zn	67	18.275	ug/L	0.203	1	8	1807	1	KED
	As	75	0.098	ug/L	0.013	13	3	33	11	KED
	Y	89		ug/L			311569	307425	2	Standard
	Kr	83		ug/L			69	46	19	Standard
>	In-1	115		ug/L			9412	8971	2	KED
	Cd	111	0.082	ug/L	0.018	21	3	27	20	KED
	Cd	114	0.086	ug/L	0.017	20	4	70	17	KED
>	In	115		ug/L			462006	470907	1	Standard
	Ag	107	0.004	ug/L	0.001	25	43	107	14	Standard
>	Tb	159		ug/L			1183725	1186788	1	Standard
	Pb	208	0.041	ug/L	0.002	4	262	3788	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0072-01
Sample Dil Factor: 100
Comments:
Sample Date/Time: Tuesday, May 02, 2023 23:03:31
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			40446	85571	0	Standard
	Cl	37		ug/L			6595246	6497742	3	Standard
>	Sc	45		ug/L			655530	657247	2	Standard
	Cr	52	1.383	ug/L	0.032	2	15680	47817	0	Standard
	Cr	53	1.391	ug/L	0.016	1	119	3779	2	Standard
>	Ge	72		ug/L			45192	43732	0	KED
	Ni	60	0.135	ug/L	0.015	10	27	241	9	KED
	Ni	62	0.209	ug/L	0.055	26	3	57	24	KED
	Cu	63	1.165	ug/L	0.060	5	59	5197	4	KED
	Cu	65	1.170	ug/L	0.013	1	19	2663	1	KED
	Zn	66	73.558	ug/L	1.216	1	38	46811	0	KED
	Zn	67	69.874	ug/L	0.689	0	8	7232	0	KED
	As	75	0.002	ug/L	0.003	162	3	4	24	KED
	Y	89		ug/L			311569	311554	0	Standard
	Kr	83		ug/L			69	60	24	Standard
>	In-1	115		ug/L			9412	9503	0	KED
	Cd	111	0.221	ug/L	0.008	3	3	73	3	KED
	Cd	114	0.205	ug/L	0.016	7	4	170	7	KED
>	In	115		ug/L			462006	483866	1	Standard
	Ag	107	0.000	ug/L	0.001	333	43	48	19	Standard
>	Tb	159		ug/L			1183725	1208072	0	Standard
	Pb	208	0.023	ug/L	0.000	1	262	2274	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL5
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 23:07:52
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			40446	40321	3	Standard
	Cl	**37**		ug/L			6595246	6564707	2	Standard
⎡>	**Sc**	**45**		ug/L			655530	642187	1	Standard
⎢	**Cr**	**52**	**-0.020**	ug/L	0.010	50	15680	14897	0	Standard
⎣	**Cr**	**53**	**-0.011**	ug/L	0.003	28	119	87	9	Standard
⎡>	**Ge**	**72**		ug/L			45192	42526	0	KED
⎢	**Ni**	**60**	**-0.002**	ug/L	0.002	98	27	22	14	KED
⎢	**Ni**	**62**	**0.016**	ug/L	0.027	169	3	7	90	KED
⎢	**Cu**	**63**	**0.001**	ug/L	0.005	387	59	60	34	KED
⎢	**Cu**	**65**	**0.009**	ug/L	0.006	61	19	39	32	KED
⎢	**Zn**	**66**	**0.039**	ug/L	0.015	39	38	60	16	KED
⎢	**Zn**	**67**	**0.069**	ug/L	0.034	49	8	15	21	KED
⎣	**As**	**75**	**-0.003**	ug/L	0.004	120	3	2	52	KED
	Y	**89**		ug/L			311569	310586	2	Standard
	Kr	**83**		ug/L			69	54	17	Standard
⎡>	**In-1**	**115**		ug/L			9412	9447	0	KED
⎢	**Cd**	**111**	**0.003**	ug/L	0.003	113	3	4	24	KED
⎣	**Cd**	**114**	**-0.002**	ug/L	0.004	163	4	3	96	KED
⎡>	**In**	**115**		ug/L			462006	483249	1	Standard
⎣	**Ag**	**107**	**-0.001**	ug/L	0.001	40	43	23	39	Standard
⎡>	**Tb**	**159**		ug/L			1183725	1192899	0	Standard
⎣	**Pb**	**208**	**0.002**	ug/L	0.000	19	262	443	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVB
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 23:12:18
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			40446	40304	2	Standard
	Cl	**37**		ug/L			6595246	6549890	4	Standard
⌈>	**Sc**	**45**		ug/L			655530	640044	1	Standard
|	**Cr**	**52**	**50.066**	ug/L	0.602	1	15680	1146718	1	Standard
⌊	**Cr**	**53**	**50.852**	ug/L	0.122	0	119	130411	1	Standard
⌈>	**Ge**	**72**		ug/L			45192	42904	2	KED
|	**Ni**	**60**	**50.515**	ug/L	0.895	1	27	79011	0	KED
|	**Ni**	**62**	**51.389**	ug/L	1.385	2	3	13033	0	KED
|	**Cu**	**63**	**51.835**	ug/L	1.423	2	59	224410	0	KED
|	**Cu**	**65**	**51.695**	ug/L	0.677	1	19	114634	0	KED
|	**Zn**	**66**	**51.341**	ug/L	1.695	3	38	32052	1	KED
|	**Zn**	**67**	**51.518**	ug/L	1.531	2	8	5232	2	KED
⌊	**As**	**75**	**50.164**	ug/L	1.071	2	3	15947	0	KED
	Y	**89**		ug/L			311569	308293	2	Standard
	Kr	**83**		ug/L			69	67	12	Standard
⌈>	**In-1**	**115**		ug/L			9412	9503	0	KED
|	**Cd**	**111**	**50.816**	ug/L	0.723	1	3	16194	0	KED
⌊	**Cd**	**114**	**50.673**	ug/L	0.744	1	4	40921	0	KED
⌈>	**In**	**115**		ug/L			462006	455164	2	Standard
⌊	**Ag**	**107**	**49.943**	ug/L	1.687	3	43	830255	1	Standard
⌈>	**Tb**	**159**		ug/L			1183725	1172495	0	Standard
⌊	**Pb**	**208**	**55.443**	ug/L	0.234	0	262	4685507	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBB
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 23:19:29
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			40446	39370	1	Standard
	Cl	**37**		ug/L			6595246	6627352	2	Standard
⌈>	**Sc**	**45**		ug/L			655530	638303	2	Standard
|	**Cr**	**52**	**-0.031**	ug/L	0.011	35	15680	14567	1	Standard
⌊	**Cr**	**53**	**-0.007**	ug/L	0.006	94	119	98	16	Standard
⌈>	**Ge**	**72**		ug/L			45192	43602	0	KED
|	**Ni**	**60**	**0.000**	ug/L	0.004	1693	27	27	21	KED
|	**Ni**	**62**	**-0.009**	ug/L	0.004	45	3	1	86	KED
|	**Cu**	**63**	**-0.002**	ug/L	0.001	60	59	46	13	KED
|	**Cu**	**65**	**0.006**	ug/L	0.001	22	19	31	9	KED
|	**Zn**	**66**	**-0.002**	ug/L	0.011	581	38	36	18	KED
|	**Zn**	**67**	**-0.003**	ug/L	0.028	901	8	8	35	KED
⌊	**As**	**75**	**-0.001**	ug/L	0.002	209	3	3	22	KED
	Y	**89**		ug/L			311569	303774	2	Standard
	Kr	**83**		ug/L			69	58	19	Standard
⌈>	**In-1**	**115**		ug/L			9412	9752	3	KED
|	**Cd**	**111**	**-0.003**	ug/L	0.005	142	3	2	57	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.001	103	4	4	22	KED
⌈>	**In**	**115**		ug/L			462006	463900	3	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.001	55	43	66	17	Standard
⌈>	**Tb**	**159**		ug/L			1183725	1203302	1	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	38	262	295	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0593-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, May 02, 2023 23:23:56
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			40446	57222	1	Standard
	Cl	37		ug/L			6595246	6073907	3	Standard
>	Sc	45		ug/L			655530	613955	1	Standard
	Cr	52	3.448	ug/L	0.036	1	15680	89439	1	Standard
	Cr	53	3.540	ug/L	0.012	0	119	8812	1	Standard
>	Ge	72		ug/L			45192	36816	1	KED
	Ni	60	0.535	ug/L	0.016	2	27	740	1	KED
	Ni	62	0.553	ug/L	0.105	18	3	123	20	KED
	Cu	63	5.346	ug/L	0.137	2	59	19906	0	KED
	Cu	65	5.252	ug/L	0.105	1	19	10007	0	KED
	Zn	66	2.751	ug/L	0.029	1	38	1504	2	KED
	Zn	67	2.607	ug/L	0.275	10	8	234	10	KED
	As	75	0.051	ug/L	0.009	18	3	16	14	KED
	Y	89		ug/L			311569	300485	2	Standard
	Kr	83		ug/L			69	55	7	Standard
>	In-1	115		ug/L			9412	8356	1	KED
	Cd	111	0.004	ug/L	0.004	111	3	4	26	KED
	Cd	114	0.008	ug/L	0.004	48	4	9	26	KED
>	In	115		ug/L			462006	444748	3	Standard
	Ag	107	0.000	ug/L	0.000	365	43	43	11	Standard
>	Tb	159		ug/L			1183725	1137255	1	Standard
	Pb	208	0.011	ug/L	0.000	1	262	1117	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0593-02
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, May 02, 2023 23:28:16
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			40446	53522	2	Standard
	Cl	37		ug/L			6595246	5971888	3	Standard
>	Sc	45		ug/L			655530	595598	2	Standard
	Cr	52	5.176	ug/L	0.073	1	15680	123102	2	Standard
	Cr	53	5.510	ug/L	0.088	1	119	13243	0	Standard
>	Ge	72		ug/L			45192	35741	0	KED
	Ni	60	0.371	ug/L	0.004	1	27	505	0	KED
	Ni	62	0.376	ug/L	0.076	20	3	82	19	KED
	Cu	63	4.428	ug/L	0.030	0	59	16018	0	KED
	Cu	65	4.505	ug/L	0.039	0	19	8337	1	KED
	Zn	66	3.235	ug/L	0.102	3	38	1711	2	KED
	Zn	67	3.073	ug/L	0.243	7	8	266	7	KED
	As	75	0.044	ug/L	0.004	10	3	14	8	KED
	Y	89		ug/L			311569	291669	3	Standard
	Kr	83		ug/L			69	53	20	Standard
>	In-1	115		ug/L			9412	8168	1	KED
	Cd	111	0.004	ug/L	0.005	135	3	4	35	KED
	Cd	114	0.007	ug/L	0.005	74	4	9	42	KED
>	In	115		ug/L			462006	433631	1	Standard
	Ag	107	-0.001	ug/L	0.001	107	43	32	26	Standard
>	Tb	159		ug/L			1183725	1107810	0	Standard
	Pb	208	0.012	ug/L	0.000	3	262	1203	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0593-03
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, May 02, 2023 23:33:06
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			40446	51632	3	Standard
	Cl	37		ug/L			6595246	5945717	4	Standard
>	Sc	45		ug/L			655530	601623	2	Standard
	Cr	52	18.674	ug/L	0.705	3	15680	410821	0	Standard
	Cr	53	19.117	ug/L	0.083	0	119	46149	2	Standard
>	Ge	72		ug/L			45192	34963	1	KED
	Ni	60	0.469	ug/L	0.007	1	27	619	1	KED
	Ni	62	0.431	ug/L	0.031	7	3	92	6	KED
	Cu	63	4.349	ug/L	0.048	1	59	15388	0	KED
	Cu	65	4.299	ug/L	0.033	0	19	7783	0	KED
	Zn	66	4.496	ug/L	0.058	1	38	2315	2	KED
	Zn	67	4.317	ug/L	0.255	5	8	363	6	KED
	As	75	0.060	ug/L	0.012	20	3	18	16	KED
	Y	89		ug/L			311569	295566	3	Standard
	Kr	83		ug/L			69	57	19	Standard
>	In-1	115		ug/L			9412	8000	0	KED
	Cd	111	0.023	ug/L	0.011	48	3	9	31	KED
	Cd	114	0.018	ug/L	0.003	17	4	16	12	KED
>	In	115		ug/L			462006	430523	2	Standard
	Ag	107	-0.000	ug/L	0.001	165	43	34	34	Standard
>	Tb	159		ug/L			1183725	1122216	1	Standard
	Pb	208	0.025	ug/L	0.001	4	262	2238	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0593-04
Sample Dil Factor: 2
Comments:
Sample Date/Time: Tuesday, May 02, 2023 23:38:56
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			40446	51159	2	Standard
	Cl	37		ug/L			6595246	5931622	4	Standard
>	Sc	45		ug/L			655530	599045	1	Standard
	Cr	52	7.961	ug/L	0.075	0	15680	182717	0	Standard
	Cr	53	8.136	ug/L	0.102	1	119	19623	2	Standard
>	Ge	72		ug/L			45192	34682	0	KED
	Ni	60	0.365	ug/L	0.007	1	27	482	0	KED
	Ni	62	0.463	ug/L	0.094	20	3	97	19	KED
	Cu	63	4.142	ug/L	0.017	0	59	14543	0	KED
	Cu	65	4.121	ug/L	0.100	2	19	7401	2	KED
	Zn	66	5.227	ug/L	0.253	4	38	2665	4	KED
	Zn	67	4.973	ug/L	0.027	0	8	414	0	KED
	As	75	0.043	ug/L	0.006	14	3	13	12	KED
	Y	89		ug/L			311569	297101	3	Standard
	Kr	83		ug/L			69	53	6	Standard
>	In-1	115		ug/L			9412	8043	1	KED
	Cd	111	0.003	ug/L	0.004	120	3	3	25	KED
	Cd	114	0.007	ug/L	0.002	33	4	9	19	KED
>	In	115		ug/L			462006	435587	0	Standard
	Ag	107	-0.000	ug/L	0.000	154	43	37	16	Standard
>	Tb	159		ug/L			1183725	1131870	1	Standard
	Pb	208	0.015	ug/L	0.001	7	262	1469	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL6
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 23:43:17
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			40446	36958	1	Standard
	Cl	**37**		ug/L			6595246	6295723	3	Standard
⌈>	**Sc**	**45**		ug/L			655530	605680	2	Standard
|	**Cr**	**52**	**0.035**	ug/L	0.021	60	15680	15222	1	Standard
⌊	**Cr**	**53**	**0.012**	ug/L	0.009	71	119	139	12	Standard
⌈>	**Ge**	**72**		ug/L			45192	38507	0	KED
|	**Ni**	**60**	**-0.007**	ug/L	0.002	30	27	14	19	KED
|	**Ni**	**62**	**0.033**	ug/L	0.005	14	3	10	10	KED
|	**Cu**	**63**	**-0.002**	ug/L	0.006	284	59	41	56	KED
|	**Cu**	**65**	**0.005**	ug/L	0.002	35	19	26	12	KED
|	**Zn**	**66**	**0.041**	ug/L	0.035	86	38	55	34	KED
|	**Zn**	**67**	**-0.034**	ug/L	0.024	69	8	4	49	KED
⌊	**As**	**75**	**-0.005**	ug/L	0.003	48	3	1	45	KED
	Y	**89**		ug/L			311569	299053	3	Standard
	Kr	**83**		ug/L			69	53	16	Standard
⌈>	**In-1**	**115**		ug/L			9412	8796	1	KED
|	**Cd**	**111**	**-0.005**	ug/L	0.003	69	3	1	50	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.003	136	4	2	74	KED
⌈>	**In**	**115**		ug/L			462006	464156	2	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.000	28	43	20	32	Standard
⌈>	**Tb**	**159**		ug/L			1183725	1133694	2	Standard
⌊	**Pb**	**208**	**0.002**	ug/L	0.000	22	262	426	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0064-03
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 23:47:44
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			40446	69545	0	Standard
	Cl	**37**		ug/L			6595246	6346696	3	Standard
⌈>	**Sc**	**45**		ug/L			655530	622246	1	Standard
|	**Cr**	**52**	**0.841**	ug/L	0.026	3	15680	33356	2	Standard
⌊	**Cr**	**53**	**1.021**	ug/L	0.030	2	119	2656	3	Standard
⌈>	**Ge**	**72**		ug/L			45192	39032	1	KED
|	**Ni**	**60**	**0.724**	ug/L	0.010	1	27	1054	1	KED
|	**Ni**	**62**	**0.751**	ug/L	0.108	14	3	176	14	KED
|	**Cu**	**63**	**5.931**	ug/L	0.189	3	59	23407	1	KED
|	**Cu**	**65**	**5.909**	ug/L	0.113	1	19	11935	1	KED
|	**Zn**	**66**	**90.430**	ug/L	1.542	1	38	51351	0	KED
|	**Zn**	**67**	**86.342**	ug/L	2.231	2	8	7974	1	KED
⌊	**As**	**75**	**0.602**	ug/L	0.030	4	3	177	5	KED
	Y	**89**		ug/L			311569	308425	3	Standard
	Kr	**83**		ug/L			69	43	19	Standard
⌈>	**In-1**	**115**		ug/L			9412	8987	1	KED
|	**Cd**	**111**	**0.044**	ug/L	0.023	52	3	16	40	KED
⌊	**Cd**	**114**	**0.038**	ug/L	0.016	43	4	33	38	KED
⌈>	**In**	**115**		ug/L			462006	468993	1	Standard
⌊	**Ag**	**107**	**0.005**	ug/L	0.001	11	43	121	5	Standard
⌈>	**Tb**	**159**		ug/L			1183725	1158976	1	Standard
⌊	**Pb**	**208**	**1.124**	ug/L	0.015	1	262	94177	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0064-01
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 23:52:10
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			40446	80475	0	Standard
	Cl	37		ug/L			6595246	7299248	3	Standard
>	Sc	45		ug/L			655530	649737	9	Standard
	Cr	52	2.215	ug/L	0.228	10	15680	66023	2	Standard
	Cr	53	2.945	ug/L	0.228	7	119	7740	2	Standard
>	Ge	72		ug/L			45192	37662	0	KED
	Ni	60	3.660	ug/L	0.124	3	27	5047	2	KED
	Ni	62	3.731	ug/L	0.173	4	3	833	3	KED
	Cu	63	21.231	ug/L	0.344	1	59	80737	0	KED
	Cu	65	21.140	ug/L	0.089	0	19	41168	0	KED
	Zn	66	152.509	ug/L	0.985	0	38	83551	0	KED
	Zn	67	145.238	ug/L	3.091	2	8	12938	1	KED
	As	75	4.246	ug/L	0.061	1	3	1187	0	KED
	Y	89		ug/L			311569	286915	9	Standard
	Kr	83		ug/L			69	55	38	Standard
>	In-1	115		ug/L			9412	8452	1	KED
	Cd	111	2.614	ug/L	0.225	8	3	743	8	KED
	Cd	114	2.645	ug/L	0.068	2	4	1904	3	KED
>	In	115		ug/L			462006	424532	11	Standard
	Ag	107	0.011	ug/L	0.001	6	43	206	9	Standard
>	Tb	159		ug/L			1183725	1089788	9	Standard
	Pb	208	2.988	ug/L	0.323	10	262	233388	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0517-DUP1
Sample Dil Factor:
Comments:
Sample Date/Time: Tuesday, May 02, 2023 23:57:00
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			40446	87756	0	Standard
	Cl	37		ug/L			6595246	7518886	3	Standard
>	Sc	45		ug/L			655530	699710	3	Standard
	Cr	52	2.100	ug/L	0.053	2	15680	68584	1	Standard
	Cr	53	2.827	ug/L	0.033	1	119	8043	2	Standard
>	Ge	72		ug/L			45192	38329	0	KED
	Ni	60	3.849	ug/L	0.076	1	27	5401	1	KED
	Ni	62	3.847	ug/L	0.135	3	3	874	3	KED
	Cu	63	22.019	ug/L	0.151	0	59	85223	0	KED
	Cu	65	21.907	ug/L	0.036	0	19	43418	0	KED
	Zn	66	158.707	ug/L	2.054	1	38	88489	1	KED
	Zn	67	153.928	ug/L	2.771	1	8	13956	1	KED
	As	75	4.562	ug/L	0.143	3	3	1298	3	KED
	Y	89		ug/L			311569	300506	3	Standard
	Kr	83		ug/L			69	53	41	Standard
>	In-1	115		ug/L			9412	8774	2	KED
	Cd	111	2.904	ug/L	0.100	3	3	857	1	KED
	Cd	114	2.837	ug/L	0.136	4	4	2119	4	KED
>	In	115		ug/L			462006	455979	0	Standard
	Ag	107	0.010	ug/L	0.001	15	43	205	11	Standard
>	Tb	159		ug/L			1183725	1135269	1	Standard
	Pb	208	2.932	ug/L	0.024	0	262	240132	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0517-MS1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 00:02:50
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			40446	82992	1	Standard
	Cl	37		ug/L			6595246	7419094	3	Standard
>	Sc	45		ug/L			655530	687100	2	Standard
	Cr	52	25.364	ug/L	0.222	0	15680	631763	1	Standard
	Cr	53	26.131	ug/L	0.446	1	119	71986	0	Standard
>	Ge	72		ug/L			45192	39113	1	KED
	Ni	60	31.024	ug/L	0.823	2	27	44248	1	KED
	Ni	62	30.836	ug/L	0.630	2	3	7132	1	KED
	Cu	63	47.705	ug/L	0.960	2	59	188335	1	KED
	Cu	65	47.769	ug/L	0.896	1	19	96572	0	KED
	Zn	66	231.252	ug/L	6.373	2	38	131520	1	KED
	Zn	67	222.232	ug/L	5.284	2	8	20554	1	KED
	As	75	30.878	ug/L	0.580	1	3	8950	0	KED
	Y	89		ug/L			311569	304413	0	Standard
	Kr	83		ug/L			69	69	30	Standard
>	In-1	115		ug/L			9412	8843	3	KED
	Cd	111	28.627	ug/L	0.840	2	3	8486	1	KED
	Cd	114	29.639	ug/L	0.781	2	4	22263	0	KED
>	In	115		ug/L			462006	438590	1	Standard
	Ag	107	25.122	ug/L	0.523	2	43	402679	3	Standard
>	Tb	159		ug/L			1183725	1143161	1	Standard
	Pb	208	31.432	ug/L	0.919	2	262	2589258	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL7
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 00:07:10
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			40446	39397	0	Standard
	Cl	**37**		ug/L			6595246	6569723	3	Standard
⌈>	**Sc**	**45**		ug/L			655530	613888	1	Standard
|	**Cr**	**52**	**-0.021**	ug/L	0.003	15	15680	14236	1	Standard
⌊	**Cr**	**53**	**0.029**	ug/L	0.006	20	119	184	7	Standard
⌈>	**Ge**	**72**		ug/L			45192	41189	1	KED
|	**Ni**	**60**	**-0.009**	ug/L	0.002	23	27	12	24	KED
|	**Ni**	**62**	**0.004**	ug/L	0.019	442	3	4	98	KED
|	**Cu**	**63**	**0.003**	ug/L	0.004	119	59	67	23	KED
|	**Cu**	**65**	**0.004**	ug/L	0.005	111	19	27	38	KED
|	**Zn**	**66**	**0.057**	ug/L	0.007	11	38	69	4	KED
|	**Zn**	**67**	**0.061**	ug/L	0.032	53	8	13	20	KED
⌊	**As**	**75**	**-0.002**	ug/L	0.004	180	3	2	40	KED
	Y	**89**		ug/L			311569	295829	3	Standard
	Kr	**83**		ug/L			69	34	5	Standard
⌈>	**In-1**	**115**		ug/L			9412	9195	1	KED
|	**Cd**	**111**	**0.002**	ug/L	0.005	208	3	4	35	KED
⌊	**Cd**	**114**	**0.000**	ug/L	0.003	1486	4	4	43	KED
⌈>	**In**	**115**		ug/L			462006	449638	1	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.001	59	43	57	16	Standard
⌈>	**Tb**	**159**		ug/L			1183725	1140541	1	Standard
⌊	**Pb**	**208**	**0.003**	ug/L	0.000	10	262	530	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVC
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 00:11:37
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			40446	39756	2	Standard
	Cl	**37**		ug/L			6595246	6517209	3	Standard
⌈>	**Sc**	**45**		ug/L			655530	623287	2	Standard
|	**Cr**	**52**	**50.080**	ug/L	1.332	2	15680	1116574	0	Standard
⌊	**Cr**	**53**	**50.494**	ug/L	1.296	2	119	126044	0	Standard
⌈>	**Ge**	**72**		ug/L			45192	41434	1	KED
|	**Ni**	**60**	**51.375**	ug/L	0.738	1	27	77615	0	KED
|	**Ni**	**62**	**50.551**	ug/L	0.960	1	3	12384	0	KED
|	**Cu**	**63**	**51.394**	ug/L	0.500	0	59	214944	0	KED
|	**Cu**	**65**	**51.869**	ug/L	0.734	1	19	111088	0	KED
|	**Zn**	**66**	**52.039**	ug/L	1.107	2	38	31383	0	KED
|	**Zn**	**67**	**51.047**	ug/L	1.217	2	8	5007	1	KED
⌊	**As**	**75**	**50.646**	ug/L	1.425	2	3	15550	1	KED
	Y	**89**		ug/L			311569	295413	0	Standard
	Kr	**83**		ug/L			69	63	14	Standard
⌈>	**In-1**	**115**		ug/L			9412	9054	1	KED
|	**Cd**	**111**	**51.885**	ug/L	0.808	1	3	15753	0	KED
⌊	**Cd**	**114**	**51.919**	ug/L	1.581	3	4	39941	1	KED
⌈>	**In**	**115**		ug/L			462006	452468	2	Standard
⌊	**Ag**	**107**	**49.258**	ug/L	1.374	2	43	813975	0	Standard
⌈>	**Tb**	**159**		ug/L			1183725	1160391	2	Standard
⌊	**Pb**	**208**	**55.425**	ug/L	1.632	2	262	4633966	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBC
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 00:18:47
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			40446	39430	2	Standard
	Cl	**37**		ug/L			6595246	6608681	3	Standard
⌈>	**Sc**	**45**		ug/L			655530	627074	2	Standard
|	**Cr**	**52**	**-0.045**	ug/L	0.014	31	15680	13990	1	Standard
⌊	**Cr**	**53**	**0.011**	ug/L	0.002	19	119	141	5	Standard
⌈>	**Ge**	**72**		ug/L			45192	42221	0	KED
|	**Ni**	**60**	**0.001**	ug/L	0.009	720	27	27	47	KED
|	**Ni**	**62**	**0.006**	ug/L	0.012	191	3	5	57	KED
|	**Cu**	**63**	**0.004**	ug/L	0.012	263	59	73	65	KED
|	**Cu**	**65**	**0.010**	ug/L	0.015	155	19	39	82	KED
|	**Zn**	**66**	**-0.002**	ug/L	0.027	1362	38	34	47	KED
|	**Zn**	**67**	**-0.045**	ug/L	0.033	72	8	3	86	KED
⌊	**As**	**75**	**0.010**	ug/L	0.010	92	3	6	44	KED
	Y	**89**		ug/L			311569	291219	2	Standard
	Kr	**83**		ug/L			69	50	28	Standard
⌈>	**In-1**	**115**		ug/L			9412	9479	1	KED
|	**Cd**	**111**	**0.003**	ug/L	0.006	210	3	4	44	KED
⌊	**Cd**	**114**	**-0.005**	ug/L	0.001	31	4	1	97	KED
⌈>	**In**	**115**		ug/L			462006	458881	0	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.000	11	43	64	4	Standard
⌈>	**Tb**	**159**		ug/L			1183725	1162137	1	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	12	262	326	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0101-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Wednesday, May 03, 2023 00:23:14
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			40446	1172532	2	Standard
	Cl	37		ug/L			6595246	6069038	4	Standard
⌈>	Sc	45		ug/L			655530	579749	2	Standard
|	Cr	52	2.828	ug/L	0.035	1	15680	71751	1	Standard
⌊	Cr	53	0.881	ug/L	0.022	2	119	2150	2	Standard
⌈>	Ge	72		ug/L			45192	34089	1	KED
|	Ni	60	20.282	ug/L	0.443	2	27	25219	0	KED
|	Ni	62	19.942	ug/L	0.648	3	3	4020	2	KED
|	Cu	63	0.986	ug/L	0.047	4	59	3435	3	KED
|	Cu	65	1.029	ug/L	0.006	0	19	1828	1	KED
|	Zn	66	10.534	ug/L	0.020	0	38	5251	1	KED
|	Zn	67	10.823	ug/L	0.467	4	8	878	3	KED
⌊	As	75	0.075	ug/L	0.014	18	3	21	17	KED
	Y	89		ug/L			311569	286901	1	Standard
	Kr	83		ug/L			69	42	24	Standard
⌈>	In-1	115		ug/L			9412	7926	1	KED
|	Cd	111	0.034	ug/L	0.006	16	3	12	12	KED
⌊	Cd	114	0.027	ug/L	0.001	3	4	22	2	KED
⌈>	In	115		ug/L			462006	416475	3	Standard
⌊	Ag	107	0.000	ug/L	0.001	128	43	45	18	Standard
⌈>	Tb	159		ug/L			1183725	1096671	1	Standard
⌊	Pb	208	0.106	ug/L	0.002	2	262	8658	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0111-02
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 00:27:34
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			40446	80966	1	Standard
	Cl	37		ug/L			6595246	6227254	3	Standard
⌈>	Sc	45		ug/L			655530	622993	1	Standard
|	Cr	52	2.609	ug/L	0.004	0	15680	72296	2	Standard
⌊	Cr	53	2.803	ug/L	0.057	2	119	7103	1	Standard
⌈>	Ge	72		ug/L			45192	36906	1	KED
|	Ni	60	1.429	ug/L	0.066	4	27	1944	3	KED
|	Ni	62	1.443	ug/L	0.093	6	3	318	7	KED
|	Cu	63	10.530	ug/L	0.065	0	59	39269	1	KED
|	Cu	65	10.555	ug/L	0.197	1	19	20148	0	KED
|	Zn	66	60.867	ug/L	1.060	1	38	32691	0	KED
|	Zn	67	58.599	ug/L	1.409	2	8	5119	1	KED
⌊	As	75	0.584	ug/L	0.043	7	3	162	6	KED
	Y	89		ug/L			311569	295366	3	Standard
	Kr	83		ug/L			69	40	28	Standard
⌈>	In-1	115		ug/L			9412	8253	1	KED
|	Cd	111	0.043	ug/L	0.028	65	3	14	51	KED
⌊	Cd	114	0.034	ug/L	0.008	22	4	27	17	KED
⌈>	In	115		ug/L			462006	459705	2	Standard
⌊	Ag	107	0.012	ug/L	0.001	9	43	237	6	Standard
⌈>	Tb	159		ug/L			1183725	1147171	1	Standard
⌊	Pb	208	0.937	ug/L	0.008	0	262	77764	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0113-01
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 03, 2023 00:31:54
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			40446	49362	2	Standard
	Cl	37		ug/L			6595246	6239661	4	Standard
>	Sc	45		ug/L			655530	638547	0	Standard
	Cr	52	15.848	ug/L	0.142	0	15680	372634	1	Standard
	Cr	53	16.371	ug/L	0.040	0	119	41964	0	Standard
>	Ge	72		ug/L			45192	39359	1	KED
	Ni	60	2.821	ug/L	0.079	2	27	4070	1	KED
	Ni	62	2.870	ug/L	0.027	0	3	671	1	KED
	Cu	63	34.610	ug/L	0.573	1	59	137511	1	KED
	Cu	65	34.629	ug/L	0.142	0	19	70468	1	KED
	Zn	66	233.126	ug/L	3.855	1	38	133439	0	KED
	Zn	67	218.354	ug/L	3.629	1	8	20323	0	KED
	As	75	0.416	ug/L	0.033	7	3	124	7	KED
	Y	89		ug/L			311569	311823	4	Standard
	Kr	83		ug/L			69	40	28	Standard
>	In-1	115		ug/L			9412	8908	0	KED
	Cd	111	0.158	ug/L	0.006	3	3	50	3	KED
	Cd	114	0.139	ug/L	0.006	4	4	109	4	KED
>	In	115		ug/L			462006	472163	2	Standard
	Ag	107	0.024	ug/L	0.002	7	43	461	4	Standard
>	Tb	159		ug/L			1183725	1171679	1	Standard
	Pb	208	146.615	ug/L	0.618	0	262	12381963	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0114-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 00:37:43
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			40446	69021	2	Standard
	Cl	37		ug/L			6595246	6361648	3	Standard
⌈>	Sc	45		ug/L			655530	619895	1	Standard
|	Cr	52	0.372	ug/L	0.006	1	15680	22968	1	Standard
⌊	Cr	53	0.444	ug/L	0.007	1	119	1213	3	Standard
⌈>	Ge	72		ug/L			45192	39522	1	KED
|	Ni	60	1.035	ug/L	0.027	2	27	1515	1	KED
|	Ni	62	1.201	ug/L	0.065	5	3	283	4	KED
|	Cu	63	51.623	ug/L	0.412	0	59	205955	1	KED
|	Cu	65	50.964	ug/L	0.232	0	19	104122	0	KED
|	Zn	66	116.644	ug/L	1.580	1	38	67064	0	KED
|	Zn	67	110.033	ug/L	0.506	0	8	10289	1	KED
⌊	As	75	0.695	ug/L	0.010	1	3	206	0	KED
	Y	89		ug/L			311569	308522	1	Standard
	Kr	83		ug/L			69	39	16	Standard
⌈>	In-1	115		ug/L			9412	9069	0	KED
|	Cd	111	0.169	ug/L	0.037	22	3	54	20	KED
⌊	Cd	114	0.168	ug/L	0.008	4	4	133	5	KED
⌈>	In	115		ug/L			462006	469373	0	Standard
⌊	Ag	107	0.008	ug/L	0.001	15	43	179	11	Standard
⌈>	Tb	159		ug/L			1183725	1174150	0	Standard
⌊	Pb	208	0.091	ug/L	0.001	1	262	7944	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0115-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 00:42:03
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			40446	74291	2	Standard
	Cl	37		ug/L			6595246	6333176	3	Standard
⌈>	Sc	45		ug/L			655530	644262	2	Standard
|	Cr	52	1.487	ug/L	0.015	0	15680	49236	1	Standard
⌊	Cr	53	1.611	ug/L	0.021	1	119	4270	1	Standard
⌈>	Ge	72		ug/L			45192	39350	0	KED
|	Ni	60	1.781	ug/L	0.043	2	27	2578	2	KED
|	Ni	62	1.747	ug/L	0.144	8	3	409	7	KED
|	Cu	63	7.439	ug/L	0.114	1	59	29591	1	KED
|	Cu	65	7.435	ug/L	0.068	0	19	15138	0	KED
|	Zn	66	86.042	ug/L	1.068	1	38	49264	0	KED
|	Zn	67	81.091	ug/L	2.266	2	8	7551	2	KED
⌊	As	75	0.391	ug/L	0.002	0	3	117	1	KED
	Y	89		ug/L			311569	310710	2	Standard
	Kr	83		ug/L			69	46	29	Standard
⌈>	In-1	115		ug/L			9412	8752	1	KED
|	Cd	111	0.056	ug/L	0.009	16	3	19	13	KED
⌊	Cd	114	0.040	ug/L	0.003	8	4	34	7	KED
⌈>	In	115		ug/L			462006	467386	1	Standard
⌊	Ag	107	0.013	ug/L	0.000	3	43	269	3	Standard
⌈>	Tb	159		ug/L			1183725	1148048	1	Standard
⌊	Pb	208	2.445	ug/L	0.029	1	262	202573	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0442-02
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 00:46:23
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			40446	64220	0	Standard
Cl	37		ug/L			6595246	6302502	3	Standard
> Sc	45		ug/L			655530	1034272	2	Standard
Cr	52	0.125	ug/L	0.038	30	15680	29276	2	Standard
Cr	53	0.588	ug/L	0.006	1	119	2624	2	Standard
> Ge	72		ug/L			45192	36846	0	KED
Ni	60	0.288	ug/L	0.029	9	27	410	9	KED
Ni	62	0.368	ug/L	0.065	17	3	83	16	KED
Cu	63	0.064	ug/L	0.012	18	59	286	15	KED
Cu	65	0.079	ug/L	0.014	18	19	166	16	KED
Zn	66	0.368	ug/L	0.021	5	38	228	4	KED
Zn	67	0.748	ug/L	0.042	5	8	72	5	KED
As	75	8.648	ug/L	0.058	0	3	2364	0	KED
Y	89		ug/L			311569	322719	1	Standard
Kr	83		ug/L			69	46	31	Standard
> In-1	115		ug/L			9412	8169	1	KED
Cd	111	0.004	ug/L	0.015	361	3	4	96	KED
Cd	114	0.003	ug/L	0.003	102	4	6	34	KED
> In	115		ug/L			462006	429792	0	Standard
Ag	107	0.010	ug/L	0.001	7	43	193	5	Standard
> Tb	159		ug/L			1183725	994443	2	Standard
Pb	208	0.010	ug/L	0.001	7	262	909	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0054-DUP1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 00:50:43
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			40446	64309	2	Standard
Cl	37		ug/L			6595246	6298207	3	Standard
> Sc	45		ug/L			655530	1046822	1	Standard
Cr	52	0.117	ug/L	0.016	13	15680	29373	0	Standard
Cr	53	0.552	ug/L	0.009	1	119	2505	3	Standard
> Ge	72		ug/L			45192	37795	0	KED
Ni	60	0.294	ug/L	0.027	9	27	427	8	KED
Ni	62	0.273	ug/L	0.029	10	3	64	10	KED
Cu	63	0.085	ug/L	0.003	3	59	372	2	KED
Cu	65	0.091	ug/L	0.011	11	19	194	11	KED
Zn	66	0.450	ug/L	0.043	9	38	280	8	KED
Zn	67	0.763	ug/L	0.185	24	8	75	21	KED
As	75	8.443	ug/L	0.062	0	3	2367	1	KED
Y	89		ug/L			311569	323068	2	Standard
Kr	83		ug/L			69	44	13	Standard
> In-1	115		ug/L			9412	8233	1	KED
Cd	111	0.004	ug/L	0.009	224	3	4	58	KED
Cd	114	0.005	ug/L	0.010	182	4	7	84	KED
> In	115		ug/L			462006	427719	1	Standard
Ag	107	0.009	ug/L	0.001	13	43	180	8	Standard
> Tb	159		ug/L			1183725	1010039	1	Standard
Pb	208	0.012	ug/L	0.000	3	262	1097	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0054-MS1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 00:55:33
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			40446	62812	0	Standard
Cl	37		ug/L			6595246	6116805	3	Standard
> Sc	45		ug/L			655530	1004164	1	Standard
Cr	52	15.265	ug/L	0.207	1	15680	565282	1	Standard
Cr	53	15.868	ug/L	0.388	2	119	63961	1	Standard
> Ge	72		ug/L			45192	36589	2	KED
Ni	60	27.400	ug/L	0.899	3	27	36548	0	KED
Ni	62	27.061	ug/L	0.241	0	3	5855	1	KED
Cu	63	26.736	ug/L	0.906	3	59	98717	0	KED
Cu	65	27.043	ug/L	1.046	3	19	51126	1	KED
Zn	66	79.672	ug/L	1.337	1	38	42408	0	KED
Zn	67	77.399	ug/L	3.048	3	8	6698	2	KED
As	75	33.707	ug/L	0.540	1	3	9139	0	KED
Y	89		ug/L			311569	317224	2	Standard
Kr	83		ug/L			69	62	19	Standard
> In-1	115		ug/L			9412	8318	0	KED
Cd	111	26.059	ug/L	0.219	0	3	7271	0	KED
Cd	114	25.874	ug/L	0.414	1	4	18293	1	KED
> In	115		ug/L			462006	420028	1	Standard
Ag	107	24.968	ug/L	0.663	2	43	383165	2	Standard
> Tb	159		ug/L			1183725	985295	1	Standard
Pb	208	32.284	ug/L	0.144	0	262	2292819	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0054-MSD1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 01:01:22
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			40446	62208	1	Standard
Cl	37		ug/L			6595246	6168842	3	Standard
> Sc	45		ug/L			655530	1020201	1	Standard
Cr	52	14.907	ug/L	0.164	1	15680	561468	2	Standard
Cr	53	15.451	ug/L	0.109	0	119	63290	1	Standard
> Ge	72		ug/L			45192	37622	0	KED
Ni	60	26.251	ug/L	0.324	1	27	36025	1	KED
Ni	62	26.124	ug/L	0.352	1	3	5813	1	KED
Cu	63	26.070	ug/L	0.097	0	59	99034	0	KED
Cu	65	26.097	ug/L	0.252	0	19	50763	0	KED
Zn	66	77.197	ug/L	0.767	0	38	42265	1	KED
Zn	67	74.068	ug/L	1.424	1	8	6595	1	KED
As	75	33.480	ug/L	0.029	0	3	9337	0	KED
Y	89		ug/L			311569	322199	1	Standard
Kr	83		ug/L			69	66	28	Standard
> In-1	115		ug/L			9412	8491	0	KED
Cd	111	25.369	ug/L	0.414	1	3	7226	1	KED
Cd	114	25.357	ug/L	0.040	0	4	18301	0	KED
> In	115		ug/L			462006	409569	1	Standard
Ag	107	25.268	ug/L	0.210	0	43	378140	1	Standard
> Tb	159		ug/L			1183725	977718	1	Standard
Pb	208	32.211	ug/L	0.134	0	262	2270046	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL8
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 01:06:13
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			40446	38655	1	Standard
	Cl	**37**		ug/L			6595246	6076391	3	Standard
⌈>	**Sc**	**45**		ug/L			655530	594559	1	Standard
|	**Cr**	**52**	**-0.043**	ug/L	0.011	25	15680	13329	3	Standard
⌊	**Cr**	**53**	**0.020**	ug/L	0.001	6	119	154	1	Standard
⌈>	**Ge**	**72**		ug/L			45192	39767	1	KED
|	**Ni**	**60**	**-0.007**	ug/L	0.001	19	27	14	15	KED
|	**Ni**	**62**	**0.010**	ug/L	0.008	77	3	5	33	KED
|	**Cu**	**63**	**0.001**	ug/L	0.000	46	59	55	5	KED
|	**Cu**	**65**	**0.003**	ug/L	0.004	107	19	24	31	KED
|	**Zn**	**66**	**0.040**	ug/L	0.018	44	38	57	18	KED
|	**Zn**	**67**	**0.045**	ug/L	0.044	98	8	12	36	KED
⌊	**As**	**75**	**0.001**	ug/L	0.003	353	3	3	28	KED
	Y	**89**		ug/L			311569	289531	3	Standard
	Kr	**83**		ug/L			69	37	11	Standard
⌈>	**In-1**	**115**		ug/L			9412	8909	1	KED
|	**Cd**	**111**	**0.007**	ug/L	0.008	113	3	5	44	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.005	411	4	5	68	KED
⌈>	**In**	**115**		ug/L			462006	447284	3	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.001	62	43	64	17	Standard
⌈>	**Tb**	**159**		ug/L			1183725	1138164	0	Standard
⌊	**Pb**	**208**	**0.003**	ug/L	0.000	2	262	499	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVD
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 01:10:40
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			40446	39414	1	Standard
	Cl	**37**		ug/L			6595246	6345289	2	Standard
⌈>	**Sc**	**45**		ug/L			655530	605241	1	Standard
|	**Cr**	**52**	**49.773**	ug/L	0.690	1	15680	1078190	1	Standard
⌊	**Cr**	**53**	**50.984**	ug/L	1.200	2	119	123655	3	Standard
⌈>	**Ge**	**72**		ug/L			45192	40061	2	KED
|	**Ni**	**60**	**51.444**	ug/L	0.786	1	27	75136	0	KED
|	**Ni**	**62**	**50.688**	ug/L	1.042	2	3	12005	0	KED
|	**Cu**	**63**	**51.110**	ug/L	1.406	2	59	206612	0	KED
|	**Cu**	**65**	**51.529**	ug/L	1.191	2	19	106684	0	KED
|	**Zn**	**66**	**51.100**	ug/L	1.437	2	38	29792	1	KED
|	**Zn**	**67**	**51.436**	ug/L	2.234	4	8	4878	3	KED
⌊	**As**	**75**	**50.441**	ug/L	1.162	2	3	14972	0	KED
	Y	**89**		ug/L			311569	291099	3	Standard
	Kr	**83**		ug/L			69	64	16	Standard
⌈>	**In-1**	**115**		ug/L			9412	8690	0	KED
|	**Cd**	**111**	**52.352**	ug/L	0.382	0	3	15257	1	KED
⌊	**Cd**	**114**	**52.461**	ug/L	0.572	1	4	38741	0	KED
⌈>	**In**	**115**		ug/L			462006	451362	2	Standard
⌊	**Ag**	**107**	**49.561**	ug/L	1.170	2	43	817439	3	Standard
⌈>	**Tb**	**159**		ug/L			1183725	1150528	1	Standard
⌊	**Pb**	**208**	**56.308**	ug/L	1.132	2	262	4668652	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBD
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 01:17:50
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			40446	37549	0	Standard
	Cl	**37**		ug/L			6595246	6334889	3	Standard
⌈>	**Sc**	**45**		ug/L			655530	609006	3	Standard
|	**Cr**	**52**	**-0.036**	ug/L	0.021	58	15680	13773	0	Standard
⌊	**Cr**	**53**	**0.009**	ug/L	0.002	22	119	131	6	Standard
⌈>	**Ge**	**72**		ug/L			45192	41516	1	KED
|	**Ni**	**60**	**-0.004**	ug/L	0.003	74	27	20	19	KED
|	**Ni**	**62**	**0.004**	ug/L	0.012	309	3	4	65	KED
|	**Cu**	**63**	**-0.000**	ug/L	0.004	5175	59	53	33	KED
|	**Cu**	**65**	**0.001**	ug/L	0.003	276	19	20	30	KED
|	**Zn**	**66**	**-0.007**	ug/L	0.015	200	38	31	30	KED
|	**Zn**	**67**	**-0.025**	ug/L	0.051	205	8	5	88	KED
⌊	**As**	**75**	**0.001**	ug/L	0.002	252	3	3	19	KED
	Y	**89**		ug/L			311569	289946	1	Standard
	Kr	**83**		ug/L			69	44	12	Standard
⌈>	**In-1**	**115**		ug/L			9412	9037	1	KED
|	**Cd**	**111**	**-0.004**	ug/L	0.002	49	3	2	24	KED
⌊	**Cd**	**114**	**0.007**	ug/L	0.010	151	4	9	79	KED
⌈>	**In**	**115**		ug/L			462006	449182	1	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.001	77	43	66	27	Standard
⌈>	**Tb**	**159**		ug/L			1183725	1135023	0	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	5	262	274	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0643-BLK1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 01:22:17
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			40446	57961	1	Standard
	Cl	37		ug/L			6595246	6275021	3	Standard
⌈>	Sc	45		ug/L			655530	623844	2	Standard
|	Cr	52	0.146	ug/L	0.037	25	15680	18120	3	Standard
⌊	Cr	53	0.171	ug/L	0.009	5	119	539	2	Standard
⌈>	Ge	72		ug/L			45192	40291	0	KED
|	Ni	60	-0.004	ug/L	0.003	90	27	19	24	KED
|	Ni	62	-0.004	ug/L	0.005	127	3	2	43	KED
|	Cu	63	0.028	ug/L	0.006	23	59	166	15	KED
|	Cu	65	0.041	ug/L	0.009	21	19	102	18	KED
|	Zn	66	0.260	ug/L	0.049	18	38	186	15	KED
|	Zn	67	0.310	ug/L	0.013	4	8	37	2	KED
⌊	As	75	0.003	ug/L	0.004	137	3	4	29	KED
	Y	89		ug/L			311569	291016	2	Standard
	Kr	83		ug/L			69	48	17	Standard
⌈>	In-1	115		ug/L			9412	9130	3	KED
|	Cd	111	0.002	ug/L	0.002	86	3	4	13	KED
⌊	Cd	114	0.001	ug/L	0.004	775	4	5	62	KED
⌈>	In	115		ug/L			462006	452205	1	Standard
⌊	Ag	107	-0.000	ug/L	0.001	166	43	36	29	Standard
⌈>	Tb	159		ug/L			1183725	1143266	1	Standard
⌊	Pb	208	0.004	ug/L	0.000	9	262	547	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0643-BS1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 01:26:43
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			40446	60594	2	Standard
	Cl	37		ug/L			6595246	6425749	3	Standard
>	Sc	45		ug/L			655530	622484	0	Standard
	Cr	52	25.424	ug/L	0.121	0	15680	573707	0	Standard
	Cr	53	25.917	ug/L	0.117	0	119	64700	1	Standard
>	Ge	72		ug/L			45192	39686	0	KED
	Ni	60	26.626	ug/L	0.143	0	27	38543	0	KED
	Ni	62	26.367	ug/L	0.865	3	3	6189	3	KED
	Cu	63	27.075	ug/L	0.360	1	59	108496	1	KED
	Cu	65	26.928	ug/L	0.405	1	19	55252	1	KED
	Zn	66	84.693	ug/L	0.817	0	38	48910	1	KED
	Zn	67	82.633	ug/L	1.163	1	8	7761	1	KED
	As	75	26.072	ug/L	0.251	0	3	7670	1	KED
	Y	89		ug/L			311569	291816	1	Standard
	Kr	83		ug/L			69	57	11	Standard
>	In-1	115		ug/L			9412	8602	2	KED
	Cd	111	27.163	ug/L	0.763	2	3	7834	0	KED
	Cd	114	27.389	ug/L	0.596	2	4	20019	1	KED
>	In	115		ug/L			462006	447083	3	Standard
	Ag	107	25.057	ug/L	0.110	0	43	409333	2	Standard
>	Tb	159		ug/L			1183725	1135560	1	Standard
	Pb	208	28.648	ug/L	0.445	1	262	2344568	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0073-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 01:30:24
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			40446	66964	0	Standard
	Cl	37		ug/L			6595246	7069932	3	Standard
>	Sc	45		ug/L			655530	763830	2	Standard
	Cr	52	0.008	ug/L	0.016	185	15680	18491	0	Standard
	Cr	53	1.086	ug/L	0.037	3	119	3460	2	Standard
>	Ge	72		ug/L			45192	37065	0	KED
	Ni	60	2.799	ug/L	0.074	2	27	3805	2	KED
	Ni	62	2.828	ug/L	0.112	3	3	622	3	KED
	Cu	63	0.438	ug/L	0.038	8	59	1687	8	KED
	Cu	65	0.439	ug/L	0.030	6	19	857	6	KED
	Zn	66	2.095	ug/L	0.048	2	38	1160	1	KED
	Zn	67	2.662	ug/L	0.232	8	8	240	8	KED
	As	75	0.543	ug/L	0.013	2	3	152	2	KED
	Y	89		ug/L			311569	290431	1	Standard
	Kr	83		ug/L			69	57	18	Standard
>	In-1	115		ug/L			9412	8386	1	KED
	Cd	111	0.030	ug/L	0.006	20	3	11	14	KED
	Cd	114	0.023	ug/L	0.011	46	4	20	36	KED
>	In	115		ug/L			462006	438166	1	Standard
	Ag	107	0.002	ug/L	0.001	38	43	74	15	Standard
>	Tb	159		ug/L			1183725	1109432	0	Standard
	Pb	208	0.018	ug/L	0.001	6	262	1713	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0075-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 01:33:59
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			40446	64832	0	Standard
	Cl	**37**		ug/L			6595246	6554343	4	Standard
⌈>	**Sc**	**45**		ug/L			655530	627384	2	Standard
|	**Cr**	**52**	**0.561**	ug/L	0.033	5	15680	27421	1	Standard
⌊	**Cr**	**53**	**0.773**	ug/L	0.036	4	119	2055	2	Standard
⌈>	**Ge**	**72**		ug/L			45192	38961	1	KED
|	**Ni**	**60**	**0.854**	ug/L	0.025	2	27	1236	1	KED
|	**Ni**	**62**	**0.844**	ug/L	0.093	10	3	197	9	KED
|	**Cu**	**63**	**3.295**	ug/L	0.012	0	59	13008	1	KED
|	**Cu**	**65**	**3.235**	ug/L	0.040	1	19	6532	2	KED
|	**Zn**	**66**	**50.767**	ug/L	0.270	0	38	28796	1	KED
|	**Zn**	**67**	**49.150**	ug/L	1.395	2	8	4534	2	KED
⌊	**As**	**75**	**0.120**	ug/L	0.012	9	3	37	9	KED
	Y	**89**		ug/L			311569	296484	3	Standard
	Kr	**83**		ug/L			69	44	21	Standard
⌈>	**In-1**	**115**		ug/L			9412	8722	1	KED
|	**Cd**	**111**	**0.036**	ug/L	0.007	20	3	13	14	KED
⌊	**Cd**	**114**	**0.028**	ug/L	0.008	27	4	25	24	KED
⌈>	**In**	**115**		ug/L			462006	446955	2	Standard
⌊	**Ag**	**107**	**0.006**	ug/L	0.000	3	43	140	3	Standard
⌈>	**Tb**	**159**		ug/L			1183725	1141647	3	Standard
⌊	**Pb**	**208**	**0.873**	ug/L	0.022	2	262	72022	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0075-02
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 01:37:40
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			40446	65896	1	Standard
	Cl	37		ug/L			6595246	6482362	3	Standard
>	Sc	45		ug/L			655530	648236	0	Standard
	Cr	52	0.599	ug/L	0.012	1	15680	29213	1	Standard
	Cr	53	0.844	ug/L	0.008	0	119	2308	0	Standard
>	Ge	72		ug/L			45192	38569	1	KED
	Ni	60	0.777	ug/L	0.041	5	27	1116	5	KED
	Ni	62	0.768	ug/L	0.096	12	3	178	13	KED
	Cu	63	5.057	ug/L	0.027	0	59	19736	1	KED
	Cu	65	5.068	ug/L	0.108	2	19	10118	1	KED
	Zn	66	54.921	ug/L	1.138	2	38	30830	0	KED
	Zn	67	54.188	ug/L	1.539	2	8	4948	3	KED
	As	75	0.421	ug/L	0.014	3	3	123	3	KED
	Y	89		ug/L			311569	302296	4	Standard
	Kr	83		ug/L			69	48	4	Standard
>	In-1	115		ug/L			9412	8586	2	KED
	Cd	111	0.036	ug/L	0.009	24	3	13	20	KED
	Cd	114	0.045	ug/L	0.014	30	4	37	25	KED
>	In	115		ug/L			462006	466041	1	Standard
	Ag	107	0.004	ug/L	0.002	36	43	114	22	Standard
>	Tb	159		ug/L			1183725	1161227	0	Standard
	Pb	208	0.902	ug/L	0.009	1	262	75750	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0075-03
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 01:41:21

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			40446	102436	3	Standard
	Cl	**37**		ug/L			6595246	39000528	8	Standard
>	**Sc**	**45**		ug/L			655530	661961	2	Standard
	Cr	**52**	**1.661**	ug/L	0.017	1	15680	54655	2	Standard
	Cr	**53**	**23.917**	ug/L	0.143	0	119	63508	3	Standard
>	**Ge**	**72**		ug/L			45192	29850	1	KED
	Ni	**60**	**1.516**	ug/L	0.072	4	27	1667	3	KED
	Ni	**62**	**1.689**	ug/L	0.183	10	3	300	9	KED
	Cu	**63**	**3.035**	ug/L	0.010	0	59	9183	1	KED
	Cu	**65**	**3.052**	ug/L	0.045	1	19	4722	2	KED
	Zn	**66**	**14.356**	ug/L	0.125	0	38	6257	1	KED
	Zn	**67**	**15.045**	ug/L	0.443	2	8	1067	1	KED
	As	**75**	**1.431**	ug/L	0.012	0	3	318	0	KED
	Y	**89**		ug/L			311569	246519	3	Standard
	Kr	**83**		ug/L			69	495	15	Standard
>	**In-1**	**115**		ug/L			9412	6709	1	KED
	Cd	**111**	**0.024**	ug/L	0.013	55	3	7	36	KED
	Cd	**114**	**0.015**	ug/L	0.001	6	4	12	3	KED
>	**In**	**115**		ug/L			462006	331016	0	Standard
	Ag	**107**	**0.008**	ug/L	0.002	20	43	133	15	Standard
>	**Tb**	**159**		ug/L			1183725	941226	0	Standard
	Pb	**208**	**0.371**	ug/L	0.002	0	262	25390	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0075-04
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 01:45:02
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			40446	72922	2	Standard
	Cl	37		ug/L			6595246	7522826	2	Standard
⌈>	Sc	45		ug/L			655530	669967	1	Standard
|	Cr	52	1.210	ug/L	0.045	3	15680	44648	1	Standard
⌊	Cr	53	2.677	ug/L	0.074	2	119	7298	0	Standard
⌈>	Ge	72		ug/L			45192	42366	1	KED
|	Ni	60	1.121	ug/L	0.049	4	27	1756	3	KED
|	Ni	62	1.213	ug/L	0.017	1	3	307	0	KED
|	Cu	63	4.819	ug/L	0.138	2	59	20654	1	KED
|	Cu	65	4.764	ug/L	0.093	1	19	10449	1	KED
|	Zn	66	83.118	ug/L	1.295	1	38	51236	0	KED
|	Zn	67	82.831	ug/L	1.340	1	8	8304	0	KED
⌊	As	75	0.205	ug/L	0.022	10	3	67	9	KED
	Y	89		ug/L			311569	297016	1	Standard
	Kr	83		ug/L			69	43	10	Standard
⌈>	In-1	115		ug/L			9412	9161	0	KED
|	Cd	111	0.045	ug/L	0.006	13	3	17	11	KED
⌊	Cd	114	0.025	ug/L	0.009	35	4	24	28	KED
⌈>	In	115		ug/L			462006	457687	1	Standard
⌊	Ag	107	0.007	ug/L	0.000	6	43	160	5	Standard
⌈>	Tb	159		ug/L			1183725	1161799	1	Standard
⌊	Pb	208	1.682	ug/L	0.018	1	262	141139	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0075-05
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 01:48:43
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			40446	77787	1	Standard
	Cl	**37**		ug/L			6595246	11317030	2	Standard
⌈>	**Sc**	**45**		ug/L			655530	733109	2	Standard
|	**Cr**	**52**	**0.745**	ug/L	0.051	6	15680	36786	1	Standard
⌊	**Cr**	**53**	**4.425**	ug/L	0.083	1	119	13118	2	Standard
⌈>	**Ge**	**72**		ug/L			45192	38901	1	KED
|	**Ni**	**60**	**0.914**	ug/L	0.077	8	27	1320	8	KED
|	**Ni**	**62**	**0.869**	ug/L	0.075	8	3	203	8	KED
|	**Cu**	**63**	**4.328**	ug/L	0.020	0	59	17040	1	KED
|	**Cu**	**65**	**4.276**	ug/L	0.110	2	19	8612	1	KED
|	**Zn**	**66**	**59.099**	ug/L	0.969	1	38	33456	0	KED
|	**Zn**	**67**	**58.578**	ug/L	0.405	0	8	5395	2	KED
⌊	**As**	**75**	**1.701**	ug/L	0.044	2	3	493	3	KED
	Y	**89**		ug/L			311569	289241	1	Standard
	Kr	**83**		ug/L			69	43	42	Standard
⌈>	**In-1**	**115**		ug/L			9412	8445	1	KED
|	**Cd**	**111**	**0.042**	ug/L	0.008	18	3	14	13	KED
⌊	**Cd**	**114**	**0.044**	ug/L	0.019	42	4	35	36	KED
⌈>	**In**	**115**		ug/L			462006	418844	1	Standard
⌊	**Ag**	**107**	**0.007**	ug/L	0.001	13	43	143	9	Standard
⌈>	**Tb**	**159**		ug/L			1183725	1123355	0	Standard
⌊	**Pb**	**208**	**0.952**	ug/L	0.014	1	262	77341	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0197-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 01:52:48
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			40446	71374	3	Standard
	Cl	37		ug/L			6595246	6980711	3	Standard
>	Sc	45		ug/L			655530	642955	1	Standard
	Cr	52	0.230	ug/L	0.025	10	15680	20600	1	Standard
	Cr	53	0.682	ug/L	0.024	3	119	1873	2	Standard
>	Ge	72		ug/L			45192	41370	0	KED
	Ni	60	0.122	ug/L	0.004	3	27	210	2	KED
	Ni	62	0.123	ug/L	0.036	28	3	33	26	KED
	Cu	63	1.458	ug/L	0.014	0	59	6139	0	KED
	Cu	65	1.432	ug/L	0.028	1	19	3079	2	KED
	Zn	66	22.921	ug/L	0.112	0	38	13823	0	KED
	Zn	67	21.521	ug/L	0.285	1	8	2113	1	KED
	As	75	0.074	ug/L	0.023	30	3	26	26	KED
	Y	89		ug/L			311569	296989	2	Standard
	Kr	83		ug/L			69	46	18	Standard
>	In-1	115		ug/L			9412	9064	2	KED
	Cd	111	0.014	ug/L	0.011	79	3	7	45	KED
	Cd	114	0.009	ug/L	0.004	41	4	11	24	KED
>	In	115		ug/L			462006	462820	3	Standard
	Ag	107	0.003	ug/L	0.000	10	43	88	3	Standard
>	Tb	159		ug/L			1183725	1170231	2	Standard
	Pb	208	0.085	ug/L	0.004	4	262	7434	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL9
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 01:56:30
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			40446	41121	3	Standard
	Cl	**37**		ug/L			6595246	6982020	2	Standard
⌈>	**Sc**	**45**		ug/L			655530	617640	2	Standard
|	**Cr**	**52**	**-0.001**	ug/L	0.007	702	15680	14754	2	Standard
⌊	**Cr**	**53**	**0.325**	ug/L	0.004	1	119	915	2	Standard
⌈>	**Ge**	**72**		ug/L			45192	41279	1	KED
|	**Ni**	**60**	**-0.010**	ug/L	0.003	29	27	10	43	KED
|	**Ni**	**62**	**0.017**	ug/L	0.028	165	3	7	90	KED
|	**Cu**	**63**	**0.001**	ug/L	0.002	132	59	59	12	KED
|	**Cu**	**65**	**0.002**	ug/L	0.004	258	19	21	43	KED
|	**Zn**	**66**	**0.056**	ug/L	0.012	21	38	69	9	KED
|	**Zn**	**67**	**0.067**	ug/L	0.100	149	8	14	65	KED
⌊	**As**	**75**	**0.001**	ug/L	0.005	460	3	3	39	KED
	Y	**89**		ug/L			311569	289259	4	Standard
	Kr	**83**		ug/L			69	39	7	Standard
⌈>	**In-1**	**115**		ug/L			9412	8817	0	KED
|	**Cd**	**111**	**0.001**	ug/L	0.002	255	3	3	15	KED
⌊	**Cd**	**114**	**-0.005**	ug/L	0.001	31	4	1	99	KED
⌈>	**In**	**115**		ug/L			462006	446180	1	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.001	83	43	27	44	Standard
⌈>	**Tb**	**159**		ug/L			1183725	1140816	1	Standard
⌊	**Pb**	**208**	**0.002**	ug/L	0.000	10	262	415	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVE
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 02:00:11
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			40446	40377	0	Standard
	Cl	**37**		ug/L			6595246	6787710	3	Standard
⌈>	**Sc**	**45**		ug/L			655530	625093	0	Standard
|	**Cr**	**52**	**49.976**	ug/L	0.611	1	15680	1118097	1	Standard
⌊	**Cr**	**53**	**50.587**	ug/L	0.616	1	119	126706	1	Standard
⌈>	**Ge**	**72**		ug/L			45192	41391	0	KED
|	**Ni**	**60**	**51.021**	ug/L	0.288	0	27	77007	0	KED
|	**Ni**	**62**	**50.404**	ug/L	0.345	0	3	12337	0	KED
|	**Cu**	**63**	**51.389**	ug/L	0.680	1	59	214709	0	KED
|	**Cu**	**65**	**51.871**	ug/L	1.051	2	19	110985	1	KED
|	**Zn**	**66**	**51.284**	ug/L	0.707	1	38	30904	1	KED
|	**Zn**	**67**	**50.730**	ug/L	0.976	1	8	4972	2	KED
⌊	**As**	**75**	**50.388**	ug/L	0.508	1	3	15457	0	KED
	Y	**89**		ug/L			311569	293290	2	Standard
	Kr	**83**		ug/L			69	55	24	Standard
⌈>	**In-1**	**115**		ug/L			9412	8746	2	KED
|	**Cd**	**111**	**53.140**	ug/L	1.484	2	3	15579	1	KED
⌊	**Cd**	**114**	**53.410**	ug/L	1.457	2	4	39679	0	KED
⌈>	**In**	**115**		ug/L			462006	441409	2	Standard
⌊	**Ag**	**107**	**49.987**	ug/L	0.485	0	43	806120	1	Standard
⌈>	**Tb**	**159**		ug/L			1183725	1146109	0	Standard
⌊	**Pb**	**208**	**55.331**	ug/L	0.625	1	262	4570617	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBE
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 02:06:37
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			40446	39381	1	Standard
	Cl	**37**		ug/L			6595246	6828429	2	Standard
⌈>	**Sc**	**45**		ug/L			655530	617611	0	Standard
|	**Cr**	**52**	**-0.038**	ug/L	0.001	3	15680	13934	0	Standard
⌊	**Cr**	**53**	**0.133**	ug/L	0.005	4	119	441	3	Standard
⌈>	**Ge**	**72**		ug/L			45192	42036	2	KED
|	**Ni**	**60**	**-0.007**	ug/L	0.003	39	27	14	32	KED
|	**Ni**	**62**	**0.006**	ug/L	0.009	139	3	5	43	KED
|	**Cu**	**63**	**-0.000**	ug/L	0.001	920	59	54	8	KED
|	**Cu**	**65**	**0.003**	ug/L	0.004	132	19	24	33	KED
|	**Zn**	**66**	**-0.008**	ug/L	0.009	111	38	31	19	KED
|	**Zn**	**67**	**-0.045**	ug/L	0.050	110	8	3	132	KED
⌊	**As**	**75**	**-0.001**	ug/L	0.002	173	3	3	24	KED
	Y	**89**		ug/L			311569	290860	0	Standard
	Kr	**83**		ug/L			69	33	6	Standard
⌈>	**In-1**	**115**		ug/L			9412	9256	2	KED
|	**Cd**	**111**	**0.005**	ug/L	0.007	126	3	5	43	KED
⌊	**Cd**	**114**	**0.003**	ug/L	0.003	99	4	6	32	KED
⌈>	**In**	**115**		ug/L			462006	447558	3	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.000	23	43	73	7	Standard
⌈>	**Tb**	**159**		ug/L			1183725	1142488	0	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	40	262	271	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 02:10:18
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				39923	1	Standard
	Cl	**37**		ug/L				6850428	3	Standard
⌈>	**Sc**	**45**		ug/L				616697	1	Standard
|	**Cr**	**52**		ug/L				14221	3	Standard
⌊	**Cr**	**53**		ug/L				394	4	Standard
⌈>	**Ge**	**72**		ug/L				40908	1	KED
|	**Ni**	**60**		ug/L				10	21	KED
|	**Ni**	**62**		ug/L				5	33	KED
|	**Cu**	**63**		ug/L				45	6	KED
|	**Cu**	**65**		ug/L				22	22	KED
|	**Zn**	**66**		ug/L				41	17	KED
|	**Zn**	**67**		ug/L				8	35	KED
⌊	**As**	**75**		ug/L				3	60	KED
	Y	**89**		ug/L				284905	2	Standard
	Kr	**83**		ug/L				45	6	Standard
⌈>	**In-1**	**115**		ug/L				8791	4	KED
|	**Cd**	**111**		ug/L				4	72	KED
⌊	**Cd**	**114**		ug/L				3	71	KED
⌈>	**In**	**115**		ug/L				445913	1	Standard
⌊	**Ag**	**107**		ug/L				41	4	Standard
⌈>	**Tb**	**159**		ug/L				1137421	2	Standard
⌊	**Pb**	**208**		ug/L				280	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVF
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 02:14:00
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			39923	39096	2	Standard
	Cl	**37**		ug/L			6850428	6757659	2	Standard
⌈>	**Sc**	**45**		ug/L			616697	614660	1	Standard
|	**Cr**	**52**	**51.010**	ug/L	0.136	0	14221	1121354	1	Standard
⌊	**Cr**	**53**	**50.751**	ug/L	0.021	0	394	125274	1	Standard
⌈>	**Ge**	**72**		ug/L			40908	40697	1	KED
|	**Ni**	**60**	**51.983**	ug/L	0.376	0	10	77125	0	KED
|	**Ni**	**62**	**51.441**	ug/L	1.648	3	5	12381	2	KED
|	**Cu**	**63**	**52.394**	ug/L	0.239	0	45	215231	0	KED
|	**Cu**	**65**	**52.378**	ug/L	0.422	0	22	110198	0	KED
|	**Zn**	**66**	**51.767**	ug/L	0.830	1	41	30679	2	KED
|	**Zn**	**67**	**51.764**	ug/L	1.168	2	8	4989	2	KED
⌊	**As**	**75**	**51.117**	ug/L	0.406	0	3	15420	1	KED
	Y	**89**		ug/L			284905	287706	3	Standard
	Kr	**83**		ug/L			45	52	25	Standard
⌈>	**In-1**	**115**		ug/L			8791	8690	1	KED
|	**Cd**	**111**	**52.925**	ug/L	0.292	0	4	15426	1	KED
⌊	**Cd**	**114**	**52.728**	ug/L	0.517	0	3	38942	1	KED
⌈>	**In**	**115**		ug/L			445913	444640	0	Standard
⌊	**Ag**	**107**	**49.073**	ug/L	1.326	2	41	797249	2	Standard
⌈>	**Tb**	**159**		ug/L			1137421	1124639	2	Standard
⌊	**Pb**	**208**	**56.177**	ug/L	1.801	3	280	4551251	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBF
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 02:20:25
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			39923	38321	2	Standard
	Cl	**37**		ug/L			6850428	6791331	3	Standard
⌈>	**Sc**	**45**		ug/L			616697	613828	2	Standard
|	**Cr**	**52**	**0.004**	ug/L	0.003	88	14221	14236	2	Standard
⌊	**Cr**	**53**	**-0.027**	ug/L	0.003	9	394	325	4	Standard
⌈>	**Ge**	**72**		ug/L			40908	41414	1	KED
|	**Ni**	**60**	**0.001**	ug/L	0.001	53	10	12	9	KED
|	**Ni**	**62**	**-0.016**	ug/L	0.008	49	5	1	100	KED
|	**Cu**	**63**	**-0.001**	ug/L	0.005	637	45	42	45	KED
|	**Cu**	**65**	**-0.001**	ug/L	0.004	615	22	21	41	KED
|	**Zn**	**66**	**-0.035**	ug/L	0.003	7	41	20	9	KED
|	**Zn**	**67**	**-0.027**	ug/L	0.020	75	8	5	33	KED
⌊	**As**	**75**	**0.007**	ug/L	0.004	57	3	6	18	KED
	Y	**89**		ug/L			284905	285876	4	Standard
	Kr	**83**		ug/L			45	44	13	Standard
⌈>	**In-1**	**115**		ug/L			8791	9019	1	KED
|	**Cd**	**111**	**-0.003**	ug/L	0.005	182	4	4	35	KED
⌊	**Cd**	**114**	**0.003**	ug/L	0.002	73	3	5	33	KED
⌈>	**In**	**115**		ug/L			445913	441162	2	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.001	37	41	68	12	Standard
⌈>	**Tb**	**159**		ug/L			1137421	1116913	0	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	3078	280	275	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0147-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 02:24:07
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			39923	63008	2	Standard
	Cl	37		ug/L			6850428	6718726	4	Standard
>	Sc	45		ug/L			616697	874436	8	Standard
	Cr	52	0.119	ug/L	0.075	62	14221	23721	1	Standard
	Cr	53	0.330	ug/L	0.024	7	394	1708	3	Standard
>	Ge	72		ug/L			40908	39462	0	KED
	Ni	60	1.899	ug/L	0.048	2	10	2740	1	KED
	Ni	62	1.813	ug/L	0.064	3	5	428	4	KED
	Cu	63	1.631	ug/L	0.045	2	45	6536	1	KED
	Cu	65	1.632	ug/L	0.055	3	22	3350	2	KED
	Zn	66	22.812	ug/L	0.328	1	41	13129	0	KED
	Zn	67	22.875	ug/L	0.756	3	8	2142	3	KED
	As	75	6.876	ug/L	0.125	1	3	2014	1	KED
	Y	89		ug/L			284905	286404	9	Standard
	Kr	83		ug/L			45	48	30	Standard
>	In-1	115		ug/L			8791	8789	2	KED
	Cd	111	0.393	ug/L	0.037	9	4	120	8	KED
	Cd	114	0.483	ug/L	0.079	16	3	363	15	KED
>	In	115		ug/L			445913	419526	10	Standard
	Ag	107	0.003	ug/L	0.001	46	41	88	32	Standard
>	Tb	159		ug/L			1137421	1074735	9	Standard
	Pb	208	0.456	ug/L	0.049	10	280	35377	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0147-03
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 02:27:48
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			39923	71918	2	Standard
	Cl	**37**		ug/L			6850428	7739968	3	Standard
⌈>	**Sc**	**45**		ug/L			616697	698275	3	Standard
|	**Cr**	**52**	**0.446**	ug/L	0.011	2	14221	27098	2	Standard
⌊	**Cr**	**53**	**1.397**	ug/L	0.030	2	394	4350	3	Standard
⌈>	**Ge**	**72**		ug/L			40908	38651	1	KED
|	**Ni**	**60**	**1.294**	ug/L	0.059	4	10	1831	3	KED
|	**Ni**	**62**	**1.313**	ug/L	0.074	5	5	305	5	KED
|	**Cu**	**63**	**2.950**	ug/L	0.042	1	45	11547	0	KED
|	**Cu**	**65**	**2.911**	ug/L	0.083	2	22	5835	1	KED
|	**Zn**	**66**	**43.529**	ug/L	0.568	1	41	24501	0	KED
|	**Zn**	**67**	**41.624**	ug/L	0.796	1	8	3811	1	KED
⌊	**As**	**75**	**0.507**	ug/L	0.040	7	3	149	8	KED
	Y	**89**		ug/L			284905	297234	2	Standard
	Kr	**83**		ug/L			45	52	7	Standard
⌈>	**In-1**	**115**		ug/L			8791	8650	1	KED
|	**Cd**	**111**	**0.015**	ug/L	0.009	59	4	8	26	KED
⌊	**Cd**	**114**	**0.028**	ug/L	0.010	35	3	23	29	KED
⌈>	**In**	**115**		ug/L			445913	429216	3	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.001	20	41	79	9	Standard
⌈>	**Tb**	**159**		ug/L			1137421	1125942	2	Standard
⌊	**Pb**	**208**	**0.303**	ug/L	0.003	0	280	24878	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0152-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 02:31:23
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			39923	68627	0	Standard
	Cl	**37**		ug/L			6850428	7752509	2	Standard
⌈>	**Sc**	**45**		ug/L			616697	641002	1	Standard
|	**Cr**	**52**	**0.276**	ug/L	0.017	6	14221	21021	1	Standard
⌊	**Cr**	**53**	**0.994**	ug/L	0.020	1	394	2959	1	Standard
⌈>	**Ge**	**72**		ug/L			40908	39791	3	KED
|	**Ni**	**60**	**1.494**	ug/L	0.102	6	10	2176	6	KED
|	**Ni**	**62**	**1.384**	ug/L	0.103	7	5	330	6	KED
|	**Cu**	**63**	**1.349**	ug/L	0.062	4	45	5455	1	KED
|	**Cu**	**65**	**1.359**	ug/L	0.096	7	22	2812	3	KED
|	**Zn**	**66**	**15.019**	ug/L	0.484	3	41	8724	0	KED
|	**Zn**	**67**	**15.779**	ug/L	0.166	1	8	1492	4	KED
⌊	**As**	**75**	**0.087**	ug/L	0.008	9	3	29	4	KED
	Y	**89**		ug/L			284905	299193	2	Standard
	Kr	**83**		ug/L			45	41	25	Standard
⌈>	**In-1**	**115**		ug/L			8791	8105	15	KED
|	**Cd**	**111**	**0.058**	ug/L	0.029	48	4	20	47	KED
⌊	**Cd**	**114**	**0.075**	ug/L	0.040	53	3	52	41	KED
⌈>	**In**	**115**		ug/L			445913	441649	1	Standard
⌊	**Ag**	**107**	**0.003**	ug/L	0.001	20	41	92	11	Standard
⌈>	**Tb**	**159**		ug/L			1137421	1144488	1	Standard
⌊	**Pb**	**208**	**0.216**	ug/L	0.004	1	280	18059	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0155-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 02:34:58
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			39923	66484	1	Standard
	Cl	**37**		ug/L			6850428	7042806	2	Standard
⌈>	**Sc**	**45**		ug/L			616697	652143	2	Standard
|	**Cr**	**52**	**0.146**	ug/L	0.007	5	14221	18401	2	Standard
⌊	**Cr**	**53**	**0.761**	ug/L	0.020	2	394	2402	0	Standard
⌈>	**Ge**	**72**		ug/L			40908	39884	1	KED
|	**Ni**	**60**	**0.337**	ug/L	0.036	10	10	499	9	KED
|	**Ni**	**62**	**0.286**	ug/L	0.016	5	5	73	3	KED
|	**Cu**	**63**	**5.041**	ug/L	0.022	0	45	20331	1	KED
|	**Cu**	**65**	**5.037**	ug/L	0.080	1	22	10405	1	KED
|	**Zn**	**66**	**27.926**	ug/L	0.376	1	41	16235	1	KED
|	**Zn**	**67**	**26.404**	ug/L	0.742	2	8	2497	2	KED
⌊	**As**	**75**	**0.126**	ug/L	0.010	8	3	41	6	KED
	Y	**89**		ug/L			284905	291206	6	Standard
	Kr	**83**		ug/L			45	31	21	Standard
⌈>	**In-1**	**115**		ug/L			8791	8478	1	KED
|	**Cd**	**111**	**0.024**	ug/L	0.009	38	4	11	22	KED
⌊	**Cd**	**114**	**0.027**	ug/L	0.008	29	3	22	25	KED
⌈>	**In**	**115**		ug/L			445913	432246	2	Standard
⌊	**Ag**	**107**	**0.004**	ug/L	0.001	21	41	97	14	Standard
⌈>	**Tb**	**159**		ug/L			1137421	1132561	2	Standard
⌊	**Pb**	**208**	**0.052**	ug/L	0.001	1	280	4541	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0156-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 02:38:34
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			39923	68174	0	Standard
	Cl	**37**		ug/L			6850428	6795137	3	Standard
⌈>	**Sc**	**45**		ug/L			616697	629609	1	Standard
|	**Cr**	**52**	**0.331**	ug/L	0.008	2	14221	21885	1	Standard
⌊	**Cr**	**53**	**0.361**	ug/L	0.031	8	394	1311	6	Standard
⌈>	**Ge**	**72**		ug/L			40908	41217	1	KED
|	**Ni**	**60**	**0.541**	ug/L	0.004	0	10	823	1	KED
|	**Ni**	**62**	**0.571**	ug/L	0.045	7	5	144	6	KED
|	**Cu**	**63**	**14.292**	ug/L	0.047	0	45	59496	1	KED
|	**Cu**	**65**	**14.089**	ug/L	0.453	3	22	30029	2	KED
|	**Zn**	**66**	**27.070**	ug/L	0.147	0	41	16265	1	KED
|	**Zn**	**67**	**26.306**	ug/L	1.290	4	8	2570	3	KED
⌊	**As**	**75**	**0.193**	ug/L	0.006	3	3	63	1	KED
	Y	**89**		ug/L			284905	296584	3	Standard
	Kr	**83**		ug/L			45	34	24	Standard
⌈>	**In-1**	**115**		ug/L			8791	8925	1	KED
|	**Cd**	**111**	**0.023**	ug/L	0.008	35	4	11	20	KED
⌊	**Cd**	**114**	**0.038**	ug/L	0.011	30	3	31	27	KED
⌈>	**In**	**115**		ug/L			445913	455003	2	Standard
⌊	**Ag**	**107**	**0.005**	ug/L	0.001	18	41	128	10	Standard
⌈>	**Tb**	**159**		ug/L			1137421	1179168	2	Standard
⌊	**Pb**	**208**	**0.716**	ug/L	0.009	1	280	61173	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0162-03
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 02:42:09
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			39923	80172	2	Standard
	Cl	**37**		ug/L			6850428	10026756	3	Standard
⌈>	**Sc**	**45**		ug/L			616697	686800	2	Standard
|	**Cr**	**52**	**6.824**	ug/L	0.269	3	14221	181237	1	Standard
⌊	**Cr**	**53**	**9.197**	ug/L	0.251	2	394	25712	0	Standard
⌈>	**Ge**	**72**		ug/L			40908	38717	1	KED
|	**Ni**	**60**	**3.368**	ug/L	0.021	0	10	4762	1	KED
|	**Ni**	**62**	**3.324**	ug/L	0.077	2	5	766	2	KED
|	**Cu**	**63**	**21.768**	ug/L	0.577	2	45	85078	1	KED
|	**Cu**	**65**	**21.900**	ug/L	0.407	1	22	43840	0	KED
|	**Zn**	**66**	**67.812**	ug/L	0.707	1	41	38213	0	KED
|	**Zn**	**67**	**65.076**	ug/L	1.945	2	8	5965	3	KED
⌊	**As**	**75**	**1.882**	ug/L	0.141	7	3	543	6	KED
	Y	**89**		ug/L			284905	284040	1	Standard
	Kr	**83**		ug/L			45	43	11	Standard
⌈>	**In-1**	**115**		ug/L			8791	8176	1	KED
|	**Cd**	**111**	**0.067**	ug/L	0.003	4	4	22	4	KED
⌊	**Cd**	**114**	**0.067**	ug/L	0.008	12	3	49	12	KED
⌈>	**In**	**115**		ug/L			445913	422094	1	Standard
⌊	**Ag**	**107**	**0.019**	ug/L	0.001	6	41	336	7	Standard
⌈>	**Tb**	**159**		ug/L			1137421	1108563	0	Standard
⌊	**Pb**	**208**	**2.806**	ug/L	0.057	2	280	224449	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0162-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Wednesday, May 03, 2023 02:45:50
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			39923	65188	1	Standard
	Cl	37		ug/L			6850428	8362727	3	Standard
⌈>	Sc	45		ug/L			616697	660332	0	Standard
|	Cr	52	4.765	ug/L	0.016	0	14221	126326	0	Standard
⌊	Cr	53	5.959	ug/L	0.054	0	394	16174	1	Standard
⌈>	Ge	72		ug/L			40908	39295	0	KED
|	Ni	60	2.722	ug/L	0.086	3	10	3908	2	KED
|	Ni	62	2.870	ug/L	0.266	9	5	671	8	KED
|	Cu	63	18.645	ug/L	0.159	0	45	73981	0	KED
|	Cu	65	18.691	ug/L	0.239	1	22	37981	0	KED
|	Zn	66	62.002	ug/L	0.577	0	41	35466	0	KED
|	Zn	67	59.087	ug/L	1.090	1	8	5496	1	KED
⌊	As	75	1.259	ug/L	0.072	5	3	370	4	KED
	Y	89		ug/L			284905	293320	3	Standard
	Kr	83		ug/L			45	38	51	Standard
⌈>	In-1	115		ug/L			8791	8365	1	KED
|	Cd	111	0.044	ug/L	0.014	31	4	16	23	KED
⌊	Cd	114	0.059	ug/L	0.012	20	3	44	17	KED
⌈>	In	115		ug/L			445913	425642	2	Standard
⌊	Ag	107	0.018	ug/L	0.001	7	41	312	6	Standard
⌈>	Tb	159		ug/L			1137421	1125170	3	Standard
⌊	Pb	208	3.943	ug/L	0.086	2	280	319878	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0162-05
Sample Dil Factor: 2
Comments:
Sample Date/Time: Wednesday, May 03, 2023 02:49:31
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			39923	64858	2	Standard
	Cl	37		ug/L			6850428	8263461	3	Standard
⌈>	Sc	45		ug/L			616697	674566	0	Standard
|	Cr	52	4.897	ug/L	0.082	1	14221	132194	1	Standard
⌊	Cr	53	6.104	ug/L	0.061	1	394	16916	1	Standard
⌈>	Ge	72		ug/L			40908	39249	0	KED
|	Ni	60	3.489	ug/L	0.057	1	10	5001	1	KED
|	Ni	62	3.618	ug/L	0.413	11	5	845	11	KED
|	Cu	63	18.996	ug/L	0.380	1	45	75286	1	KED
|	Cu	65	18.717	ug/L	0.250	1	22	37993	1	KED
|	Zn	66	61.747	ug/L	0.381	0	41	35280	0	KED
|	Zn	67	61.301	ug/L	0.369	0	8	5696	0	KED
⌊	As	75	1.293	ug/L	0.051	3	3	379	4	KED
	Y	89		ug/L			284905	291147	2	Standard
	Kr	83		ug/L			45	42	24	Standard
⌈>	In-1	115		ug/L			8791	8425	1	KED
|	Cd	111	0.044	ug/L	0.028	62	4	17	47	KED
⌊	Cd	114	0.045	ug/L	0.020	44	3	35	39	KED
⌈>	In	115		ug/L			445913	430915	3	Standard
⌊	Ag	107	0.020	ug/L	0.002	9	41	354	8	Standard
⌈>	Tb	159		ug/L			1137421	1131978	1	Standard
⌊	Pb	208	3.884	ug/L	0.056	1	280	317139	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0168-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 02:53:06
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			39923	71682	1	Standard
	Cl	37		ug/L			6850428	6717124	4	Standard
>	Sc	45		ug/L			616697	628262	2	Standard
	Cr	52	0.877	ug/L	0.026	2	14221	33941	0	Standard
	Cr	53	0.973	ug/L	0.036	3	394	2847	3	Standard
>	Ge	72		ug/L			40908	40369	0	KED
	Ni	60	1.064	ug/L	0.004	0	10	1575	0	KED
	Ni	62	1.104	ug/L	0.082	7	5	269	7	KED
	Cu	63	10.101	ug/L	0.131	1	45	41196	1	KED
	Cu	65	9.888	ug/L	0.091	0	22	20654	1	KED
	Zn	66	61.995	ug/L	0.871	1	41	36431	1	KED
	Zn	67	59.760	ug/L	0.887	1	8	5712	2	KED
	As	75	0.273	ug/L	0.010	3	3	85	4	KED
	Y	89		ug/L			284905	295923	2	Standard
	Kr	83		ug/L			45	45	15	Standard
>	In-1	115		ug/L			8791	8686	0	KED
	Cd	111	0.054	ug/L	0.012	23	4	20	18	KED
	Cd	114	0.063	ug/L	0.020	32	3	49	31	KED
>	In	115		ug/L			445913	448579	1	Standard
	Ag	107	0.022	ug/L	0.001	3	41	399	5	Standard
>	Tb	159		ug/L			1137421	1153197	1	Standard
	Pb	208	1.995	ug/L	0.039	1	280	166086	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLA
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 02:56:47
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			39923	39825	0	Standard
	Cl	**37**		ug/L			6850428	6815668	2	Standard
⌈>	**Sc**	**45**		ug/L			616697	612665	2	Standard
|	**Cr**	**52**	**-0.007**	ug/L	0.016	222	14221	13971	1	Standard
⌊	**Cr**	**53**	**0.029**	ug/L	0.007	23	394	463	0	Standard
⌈>	**Ge**	**72**		ug/L			40908	39902	0	KED
|	**Ni**	**60**	**-0.003**	ug/L	0.002	45	10	5	43	KED
|	**Ni**	**62**	**-0.007**	ug/L	0.008	108	5	3	50	KED
|	**Cu**	**63**	**0.004**	ug/L	0.002	39	45	60	11	KED
|	**Cu**	**65**	**0.004**	ug/L	0.005	105	22	31	30	KED
|	**Zn**	**66**	**0.042**	ug/L	0.006	14	41	64	5	KED
|	**Zn**	**67**	**0.029**	ug/L	0.084	288	8	10	73	KED
⌊	**As**	**75**	**-0.002**	ug/L	0.005	219	3	3	48	KED
	Y	**89**		ug/L			284905	284921	3	Standard
	Kr	**83**		ug/L			45	38	13	Standard
⌈>	**In-1**	**115**		ug/L			8791	8563	1	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.005	283	4	4	35	KED
⌊	**Cd**	**114**	**0.007**	ug/L	0.004	54	3	8	35	KED
⌈>	**In**	**115**		ug/L			445913	437172	2	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.000	40	41	26	23	Standard
⌈>	**Tb**	**159**		ug/L			1137421	1128039	0	Standard
⌊	**Pb**	**208**	**0.003**	ug/L	0.002	60	280	514	26	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVG
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 03:00:29
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			39923	39893	2	Standard
	Cl	**37**		ug/L			6850428	6720452	3	Standard
⌈>	**Sc**	**45**		ug/L			616697	614975	2	Standard
|	**Cr**	**52**	**49.723**	ug/L	0.444	0	14221	1093781	1	Standard
⌊	**Cr**	**53**	**50.652**	ug/L	1.013	1	394	125063	1	Standard
⌈>	**Ge**	**72**		ug/L			40908	39356	0	KED
|	**Ni**	**60**	**52.673**	ug/L	0.581	1	10	75574	0	KED
|	**Ni**	**62**	**52.177**	ug/L	1.255	2	5	12144	1	KED
|	**Cu**	**63**	**53.281**	ug/L	0.786	1	45	211669	1	KED
|	**Cu**	**65**	**53.602**	ug/L	0.209	0	22	109059	0	KED
|	**Zn**	**66**	**52.271**	ug/L	0.804	1	41	29952	1	KED
|	**Zn**	**67**	**53.834**	ug/L	1.491	2	8	5016	2	KED
⌊	**As**	**75**	**51.602**	ug/L	0.789	1	3	15052	0	KED
	Y	**89**		ug/L			284905	287560	2	Standard
	Kr	**83**		ug/L			45	50	15	Standard
⌈>	**In-1**	**115**		ug/L			8791	8902	1	KED
|	**Cd**	**111**	**51.263**	ug/L	1.008	1	4	15303	0	KED
⌊	**Cd**	**114**	**51.105**	ug/L	0.266	0	3	38662	1	KED
⌈>	**In**	**115**		ug/L			445913	435481	0	Standard
⌊	**Ag**	**107**	**49.472**	ug/L	1.055	2	41	787196	1	Standard
⌈>	**Tb**	**159**		ug/L			1137421	1116953	1	Standard
⌊	**Pb**	**208**	**56.617**	ug/L	1.006	1	280	4557625	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBG
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 03:06:54
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			39923	39462	0	Standard
	Cl	**37**		ug/L			6850428	6839294	2	Standard
⌈>	**Sc**	**45**		ug/L			616697	606751	1	Standard
|	**Cr**	**52**	**0.011**	ug/L	0.010	86	14221	14230	1	Standard
⌊	**Cr**	**53**	**-0.049**	ug/L	0.010	20	394	268	8	Standard
⌈>	**Ge**	**72**		ug/L			40908	40804	1	KED
|	**Ni**	**60**	**-0.002**	ug/L	0.001	70	10	6	31	KED
|	**Ni**	**62**	**-0.013**	ug/L	0.012	92	5	2	114	KED
|	**Cu**	**63**	**0.003**	ug/L	0.002	55	45	56	11	KED
|	**Cu**	**65**	**-0.001**	ug/L	0.001	108	22	20	9	KED
|	**Zn**	**66**	**-0.026**	ug/L	0.013	49	41	26	29	KED
|	**Zn**	**67**	**-0.053**	ug/L	0.030	56	8	3	91	KED
⌊	**As**	**75**	**-0.003**	ug/L	0.003	106	3	3	32	KED
	Y	**89**		ug/L			284905	288490	0	Standard
	Kr	**83**		ug/L			45	36	29	Standard
⌈>	**In-1**	**115**		ug/L			8791	9293	0	KED
|	**Cd**	**111**	**-0.004**	ug/L	0.011	273	4	3	86	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.004	253	3	4	67	KED
⌈>	**In**	**115**		ug/L			445913	444900	3	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.000	20	41	68	12	Standard
⌈>	**Tb**	**159**		ug/L			1137421	1120135	0	Standard
⌊	**Pb**	**208**	**-0.000**	ug/L	0.000	71	280	240	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0177-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 03:10:36
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			39923	60121	1	Standard
	Cl	37		ug/L			6850428	6728099	3	Standard
⌈>	Sc	45		ug/L			616697	645613	1	Standard
|	Cr	52	1.735	ug/L	0.030	1	14221	54426	0	Standard
⌊	Cr	53	1.697	ug/L	0.028	1	394	4798	0	Standard
⌈>	Ge	72		ug/L			40908	40455	0	KED
|	Ni	60	1.394	ug/L	0.040	2	10	2066	2	KED
|	Ni	62	1.572	ug/L	0.009	0	5	381	0	KED
|	Cu	63	53.429	ug/L	0.487	0	45	218177	0	KED
|	Cu	65	53.343	ug/L	0.986	1	22	111555	1	KED
|	Zn	66	42.243	ug/L	0.314	0	41	24890	0	KED
|	Zn	67	40.358	ug/L	1.174	2	8	3867	2	KED
⌊	As	75	0.317	ug/L	0.021	6	3	99	5	KED
	Y	89		ug/L			284905	288035	2	Standard
	Kr	83		ug/L			45	38	2	Standard
⌈>	In-1	115		ug/L			8791	8848	1	KED
|	Cd	111	0.012	ug/L	0.005	39	4	8	17	KED
⌊	Cd	114	0.006	ug/L	0.005	70	3	7	43	KED
⌈>	In	115		ug/L			445913	449716	1	Standard
⌊	Ag	107	0.004	ug/L	0.002	36	41	110	22	Standard
⌈>	Tb	159		ug/L			1137421	1129704	0	Standard
⌊	Pb	208	0.700	ug/L	0.001	0	280	57303	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0177-03
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 03:14:17
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			39923	60639	0	Standard
	Cl	37		ug/L			6850428	6579340	2	Standard
⌈>	Sc	45		ug/L			616697	655234	1	Standard
|	Cr	52	1.927	ug/L	0.011	0	14221	59702	1	Standard
⌊	Cr	53	1.891	ug/L	0.036	1	394	5379	1	Standard
⌈>	Ge	72		ug/L			40908	40694	0	KED
|	Ni	60	2.055	ug/L	0.100	4	10	3058	4	KED
|	Ni	62	2.003	ug/L	0.154	7	5	487	7	KED
|	Cu	63	60.985	ug/L	0.601	0	45	250501	0	KED
|	Cu	65	60.685	ug/L	0.053	0	22	127667	0	KED
|	Zn	66	53.611	ug/L	0.329	0	41	31765	0	KED
|	Zn	67	51.866	ug/L	1.320	2	8	4998	2	KED
⌊	As	75	0.486	ug/L	0.048	9	3	150	9	KED
	Y	89		ug/L			284905	294534	5	Standard
	Kr	83		ug/L			45	40	9	Standard
⌈>	In-1	115		ug/L			8791	8801	1	KED
|	Cd	111	0.004	ug/L	0.012	263	4	6	55	KED
⌊	Cd	114	0.012	ug/L	0.012	104	3	11	76	KED
⌈>	In	115		ug/L			445913	452921	1	Standard
⌊	Ag	107	0.005	ug/L	0.001	17	41	125	12	Standard
⌈>	Tb	159		ug/L			1137421	1143454	0	Standard
⌊	Pb	208	0.595	ug/L	0.011	1	280	49275	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0177-05
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 03:17:58
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			39923	59181	1	Standard
	Cl	37		ug/L			6850428	6560865	2	Standard
⌈>	Sc	45		ug/L			616697	664945	4	Standard
|	Cr	52	2.041	ug/L	0.093	4	14221	63188	1	Standard
⌊	Cr	53	2.042	ug/L	0.075	3	394	5855	1	Standard
⌈>	Ge	72		ug/L			40908	37435	7	KED
|	Ni	60	2.317	ug/L	0.230	9	10	3155	2	KED
|	Ni	62	2.438	ug/L	0.340	13	5	540	7	KED
|	Cu	63	68.116	ug/L	4.925	7	45	256450	1	KED
|	Cu	65	68.392	ug/L	4.565	6	22	131910	0	KED
|	Zn	66	63.650	ug/L	4.211	6	41	34575	2	KED
|	Zn	67	60.210	ug/L	4.867	8	8	5315	1	KED
⌊	As	75	0.493	ug/L	0.030	6	3	140	3	KED
	Y	89		ug/L			284905	298272	1	Standard
	Kr	83		ug/L			45	34	3	Standard
⌈>	In-1	115		ug/L			8791	8713	0	KED
|	Cd	111	0.019	ug/L	0.004	21	4	10	10	KED
⌊	Cd	114	0.015	ug/L	0.004	25	3	13	19	KED
⌈>	In	115		ug/L			445913	454297	2	Standard
⌊	Ag	107	0.006	ug/L	0.001	14	41	147	10	Standard
⌈>	Tb	159		ug/L			1137421	1169613	1	Standard
⌊	Pb	208	0.686	ug/L	0.006	0	280	58119	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0177-07
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 03:21:39
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			39923	59713	0	Standard
	Cl	37		ug/L			6850428	6673835	2	Standard
>	Sc	45		ug/L			616697	680539	1	Standard
	Cr	52	7.031	ug/L	0.062	0	14221	184643	0	Standard
	Cr	53	7.067	ug/L	0.116	1	394	19688	2	Standard
>	Ge	72		ug/L			40908	39739	0	KED
	Ni	60	5.645	ug/L	0.184	3	10	8186	2	KED
	Ni	62	5.988	ug/L	0.275	4	5	1412	4	KED
	Cu	63	154.335	ug/L	2.649	1	45	618951	1	KED
	Cu	65	154.940	ug/L	0.657	0	22	318265	0	KED
	Zn	66	118.397	ug/L	0.523	0	41	68456	0	KED
	Zn	67	112.418	ug/L	1.600	1	8	10569	1	KED
	As	75	0.837	ug/L	0.021	2	3	250	3	KED
	Y	89		ug/L			284905	313344	2	Standard
	Kr	83		ug/L			45	51	16	Standard
>	In-1	115		ug/L			8791	8815	3	KED
	Cd	111	0.575	ug/L	0.046	7	4	174	5	KED
	Cd	114	0.537	ug/L	0.031	5	3	405	7	KED
>	In	115		ug/L			445913	456682	0	Standard
	Ag	107	0.037	ug/L	0.003	7	41	652	6	Standard
>	Tb	159		ug/L			1137421	1156166	0	Standard
	Pb	208	1.938	ug/L	0.013	0	280	161784	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0178-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 03:25:14
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			39923	70345	1	Standard
	Cl	**37**		ug/L			6850428	13982003	3	Standard
⌈>	**Sc**	**45**		ug/L			616697	600870	1	Standard
|	**Cr**	**52**	**0.552**	ug/L	0.013	2	14221	25566	2	Standard
⌊	**Cr**	**53**	**5.338**	ug/L	0.136	2	394	13225	3	Standard
⌈>	**Ge**	**72**		ug/L			40908	34981	1	KED
|	**Ni**	**60**	**0.318**	ug/L	0.011	3	10	413	1	KED
|	**Ni**	**62**	**0.342**	ug/L	0.055	16	5	75	15	KED
|	**Cu**	**63**	**10.825**	ug/L	0.088	0	45	38252	1	KED
|	**Cu**	**65**	**10.878**	ug/L	0.183	1	22	19685	1	KED
|	**Zn**	**66**	**8.688**	ug/L	0.135	1	41	4454	0	KED
|	**Zn**	**67**	**8.141**	ug/L	0.421	5	8	680	3	KED
⌊	**As**	**75**	**0.228**	ug/L	0.004	1	3	62	2	KED
	Y	**89**		ug/L			284905	283465	1	Standard
	Kr	**83**		ug/L			45	52	11	Standard
⌈>	**In-1**	**115**		ug/L			8791	7676	2	KED
|	**Cd**	**111**	**0.007**	ug/L	0.008	110	4	6	32	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.005	235	3	1	276	KED
⌈>	**In**	**115**		ug/L			445913	399080	1	Standard
⌊	**Ag**	**107**	**0.010**	ug/L	0.001	11	41	182	8	Standard
⌈>	**Tb**	**159**		ug/L			1137421	1073515	0	Standard
⌊	**Pb**	**208**	**0.347**	ug/L	0.001	0	280	27086	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0179-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 03:28:49
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			39923	65079	1	Standard
	Cl	**37**		ug/L			6850428	6403970	3	Standard
⌈>	**Sc**	**45**		ug/L			616697	662497	2	Standard
|	**Cr**	**52**	**1.506**	ug/L	0.036	2	14221	50490	1	Standard
⌊	**Cr**	**53**	**1.612**	ug/L	0.023	1	394	4698	4	Standard
⌈>	**Ge**	**72**		ug/L			40908	35796	2	KED
|	**Ni**	**60**	**3.373**	ug/L	0.030	0	10	4410	1	KED
|	**Ni**	**62**	**3.382**	ug/L	0.148	4	5	720	4	KED
|	**Cu**	**63**	**1.211**	ug/L	0.035	2	45	4414	1	KED
|	**Cu**	**65**	**1.251**	ug/L	0.031	2	22	2334	3	KED
|	**Zn**	**66**	**3.071**	ug/L	0.175	5	41	1633	4	KED
|	**Zn**	**67**	**3.959**	ug/L	0.222	5	8	342	5	KED
⌊	**As**	**75**	**1.735**	ug/L	0.041	2	3	463	3	KED
	Y	**89**		ug/L			284905	327182	1	Standard
	Kr	**83**		ug/L			45	38	15	Standard
⌈>	**In-1**	**115**		ug/L			8791	7966	1	KED
|	**Cd**	**111**	**0.002**	ug/L	0.004	216	4	4	20	KED
⌊	**Cd**	**114**	**0.011**	ug/L	0.006	54	3	10	41	KED
⌈>	**In**	**115**		ug/L			445913	427227	2	Standard
⌊	**Ag**	**107**	**0.003**	ug/L	0.000	15	41	80	10	Standard
⌈>	**Tb**	**159**		ug/L			1137421	1104191	0	Standard
⌊	**Pb**	**208**	**0.108**	ug/L	0.002	1	280	8874	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0179-02
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 03:32:30
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			39923	65908	0	Standard
	Cl	**37**		ug/L			6850428	6506980	3	Standard
⌈>	**Sc**	**45**		ug/L			616697	616989	2	Standard
|	**Cr**	**52**	**0.385**	ug/L	0.016	4	14221	22612	2	Standard
⌊	**Cr**	**53**	**0.408**	ug/L	0.024	5	394	1401	5	Standard
⌈>	**Ge**	**72**		ug/L			40908	38147	0	KED
|	**Ni**	**60**	**0.217**	ug/L	0.011	5	10	311	4	KED
|	**Ni**	**62**	**0.264**	ug/L	0.007	2	5	64	2	KED
|	**Cu**	**63**	**1.292**	ug/L	0.046	3	45	5017	3	KED
|	**Cu**	**65**	**1.298**	ug/L	0.080	6	22	2581	6	KED
|	**Zn**	**66**	**7.911**	ug/L	0.071	0	41	4426	0	KED
|	**Zn**	**67**	**7.652**	ug/L	0.132	1	8	697	1	KED
⌊	**As**	**75**	**0.448**	ug/L	0.013	2	3	130	2	KED
	Y	**89**		ug/L			284905	296052	0	Standard
	Kr	**83**		ug/L			45	40	12	Standard
⌈>	**In-1**	**115**		ug/L			8791	8470	1	KED
|	**Cd**	**111**	**0.013**	ug/L	0.005	41	4	8	17	KED
⌊	**Cd**	**114**	**0.015**	ug/L	0.006	39	3	13	29	KED
⌈>	**In**	**115**		ug/L			445913	463289	0	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.001	46	41	69	17	Standard
⌈>	**Tb**	**159**		ug/L			1137421	1150592	1	Standard
⌊	**Pb**	**208**	**0.180**	ug/L	0.005	2	280	15206	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0201-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 03:36:05
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			39923	65168	2	Standard
	Cl	37		ug/L			6850428	6218408	3	Standard
⌈>	Sc	45		ug/L			616697	625462	1	Standard
|	Cr	52	0.933	ug/L	0.029	3	14221	35031	1	Standard
⌊	Cr	53	0.933	ug/L	0.027	2	394	2736	3	Standard
⌈>	Ge	72		ug/L			40908	38102	1	KED
|	Ni	60	0.663	ug/L	0.019	2	10	929	2	KED
|	Ni	62	0.681	ug/L	0.046	6	5	158	5	KED
|	Cu	63	5.305	ug/L	0.157	2	45	20434	1	KED
|	Cu	65	5.312	ug/L	0.098	1	22	10481	1	KED
|	Zn	66	37.119	ug/L	0.402	1	41	20603	1	KED
|	Zn	67	34.914	ug/L	0.420	1	8	3152	1	KED
⌊	As	75	0.392	ug/L	0.035	8	3	114	7	KED
	Y	89		ug/L			284905	302837	2	Standard
	Kr	83		ug/L			45	45	6	Standard
⌈>	In-1	115		ug/L			8791	8581	0	KED
|	Cd	111	0.033	ug/L	0.016	48	4	14	33	KED
⌊	Cd	114	0.032	ug/L	0.004	12	3	25	10	KED
⌈>	In	115		ug/L			445913	458615	1	Standard
⌊	Ag	107	0.005	ug/L	0.001	11	41	128	7	Standard
⌈>	Tb	159		ug/L			1137421	1149377	0	Standard
⌊	Pb	208	1.457	ug/L	0.026	1	280	120988	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0201-02
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 03:39:47
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			39923	74313	1	Standard
	Cl	37		ug/L			6850428	6396494	4	Standard
>	Sc	45		ug/L			616697	728387	0	Standard
	Cr	52	0.832	ug/L	0.032	3	14221	38204	2	Standard
	Cr	53	1.126	ug/L	0.037	3	394	3750	3	Standard
>	Ge	72		ug/L			40908	36249	1	KED
	Ni	60	2.687	ug/L	0.096	3	10	3557	2	KED
	Ni	62	2.579	ug/L	0.161	6	5	557	5	KED
	Cu	63	6.589	ug/L	0.136	2	45	24138	1	KED
	Cu	65	6.491	ug/L	0.146	2	22	12179	1	KED
	Zn	66	10.399	ug/L	0.117	1	41	5517	2	KED
	Zn	67	10.489	ug/L	0.189	1	8	906	0	KED
	As	75	1.477	ug/L	0.013	0	3	400	0	KED
	Y	89		ug/L			284905	309345	2	Standard
	Kr	83		ug/L			45	38	33	Standard
>	In-1	115		ug/L			8791	8034	0	KED
	Cd	111	0.043	ug/L	0.004	9	4	15	6	KED
	Cd	114	0.038	ug/L	0.012	31	3	28	28	KED
>	In	115		ug/L			445913	424443	2	Standard
	Ag	107	0.018	ug/L	0.000	1	41	325	3	Standard
>	Tb	159		ug/L			1137421	1122427	1	Standard
	Pb	208	1.139	ug/L	0.011	0	280	92384	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLB
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 03:43:29
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			39923	38854	2	Standard
	Cl	**37**		ug/L			6850428	6413869	3	Standard
⌈>	**Sc**	**45**		ug/L			616697	599936	1	Standard
|	**Cr**	**52**	**0.001**	ug/L	0.005	908	14221	13845	1	Standard
⌊	**Cr**	**53**	**-0.022**	ug/L	0.006	27	394	331	5	Standard
⌈>	**Ge**	**72**		ug/L			40908	38417	0	KED
|	**Ni**	**60**	**0.002**	ug/L	0.002	67	10	12	17	KED
|	**Ni**	**62**	**-0.012**	ug/L	0.005	39	5	2	43	KED
|	**Cu**	**63**	**0.003**	ug/L	0.005	148	45	55	36	KED
|	**Cu**	**65**	**0.002**	ug/L	0.005	305	22	24	40	KED
|	**Zn**	**66**	**0.055**	ug/L	0.008	15	41	69	6	KED
|	**Zn**	**67**	**-0.008**	ug/L	0.032	376	8	6	41	KED
⌊	**As**	**75**	**-0.006**	ug/L	0.002	32	3	2	26	KED
	Y	**89**		ug/L			284905	289329	3	Standard
	Kr	**83**		ug/L			45	36	31	Standard
⌈>	**In-1**	**115**		ug/L			8791	8409	0	KED
|	**Cd**	**111**	**-0.005**	ug/L	0.007	144	4	3	62	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.005	499	3	3	103	KED
⌈>	**In**	**115**		ug/L			445913	446593	1	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.000	5	41	17	6	Standard
⌈>	**Tb**	**159**		ug/L			1137421	1134666	1	Standard
⌊	**Pb**	**208**	**0.002**	ug/L	0.000	13	280	435	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVH
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 03:47:10
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			39923	38645	3	Standard
	Cl	**37**		ug/L			6850428	6420671	3	Standard
⌈>	**Sc**	**45**		ug/L			616697	574441	6	Standard
|	**Cr**	**52**	**52.708**	ug/L	4.556	8	14221	1078095	1	Standard
⌊	**Cr**	**53**	**53.373**	ug/L	4.042	7	394	122673	0	Standard
⌈>	**Ge**	**72**		ug/L			40908	38335	2	KED
|	**Ni**	**60**	**51.709**	ug/L	0.502	0	10	72261	1	KED
|	**Ni**	**62**	**52.277**	ug/L	2.135	4	5	11846	1	KED
|	**Cu**	**63**	**52.956**	ug/L	1.489	2	45	204831	0	KED
|	**Cu**	**65**	**52.277**	ug/L	1.864	3	22	103557	1	KED
|	**Zn**	**66**	**51.319**	ug/L	0.825	1	41	28639	0	KED
|	**Zn**	**67**	**51.096**	ug/L	0.907	1	8	4637	0	KED
⌊	**As**	**75**	**50.977**	ug/L	1.033	2	3	14480	1	KED
	Y	**89**		ug/L			284905	272482	8	Standard
	Kr	**83**		ug/L			45	44	6	Standard
⌈>	**In-1**	**115**		ug/L			8791	8482	1	KED
|	**Cd**	**111**	**52.276**	ug/L	0.655	1	4	14871	1	KED
⌊	**Cd**	**114**	**53.012**	ug/L	0.889	1	3	38212	1	KED
⌈>	**In**	**115**		ug/L			445913	414845	8	Standard
⌊	**Ag**	**107**	**52.823**	ug/L	4.075	7	41	797290	1	Standard
⌈>	**Tb**	**159**		ug/L			1137421	1070296	7	Standard
⌊	**Pb**	**208**	**60.145**	ug/L	4.260	7	280	4623746	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBH
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 03:53:35
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			39923	37598	0	Standard
	Cl	**37**		ug/L			6850428	6484308	2	Standard
⌈>	**Sc**	**45**		ug/L			616697	609487	2	Standard
|	**Cr**	**52**	**-0.018**	ug/L	0.013	75	14221	13669	1	Standard
⌊	**Cr**	**53**	**-0.067**	ug/L	0.012	18	394	225	11	Standard
⌈>	**Ge**	**72**		ug/L			40908	39340	2	KED
|	**Ni**	**60**	**-0.003**	ug/L	0.001	20	10	5	21	KED
|	**Ni**	**62**	**-0.005**	ug/L	0.012	263	5	4	65	KED
|	**Cu**	**63**	**0.001**	ug/L	0.000	21	45	48	2	KED
|	**Cu**	**65**	**-0.002**	ug/L	0.001	64	22	17	16	KED
|	**Zn**	**66**	**-0.019**	ug/L	0.005	27	41	28	11	KED
|	**Zn**	**67**	**0.016**	ug/L	0.081	505	8	9	80	KED
⌊	**As**	**75**	**-0.001**	ug/L	0.003	265	3	3	20	KED
	Y	**89**		ug/L			284905	289294	2	Standard
	Kr	**83**		ug/L			45	38	30	Standard
⌈>	**In-1**	**115**		ug/L			8791	8946	2	KED
|	**Cd**	**111**	**-0.008**	ug/L	0.004	52	4	2	43	KED
⌊	**Cd**	**114**	**-0.000**	ug/L	0.003	2071	3	2	73	KED
⌈>	**In**	**115**		ug/L			445913	445161	3	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.001	41	41	62	13	Standard
⌈>	**Tb**	**159**		ug/L			1137421	1133602	1	Standard
⌊	**Pb**	**208**	**-0.000**	ug/L	0.000	46	280	245	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0203-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 03:57:17
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			39923	63515	3	Standard
	Cl	**37**		ug/L			6850428	6524477	3	Standard
⌈>	**Sc**	**45**		ug/L			616697	609306	1	Standard
|	**Cr**	**52**	**0.406**	ug/L	0.004	1	14221	22788	0	Standard
⌊	**Cr**	**53**	**0.330**	ug/L	0.008	2	394	1194	1	Standard
⌈>	**Ge**	**72**		ug/L			40908	39735	1	KED
|	**Ni**	**60**	**0.149**	ug/L	0.024	16	10	224	14	KED
|	**Ni**	**62**	**0.128**	ug/L	0.043	33	5	35	26	KED
|	**Cu**	**63**	**1.064**	ug/L	0.021	1	45	4308	1	KED
|	**Cu**	**65**	**1.080**	ug/L	0.046	4	22	2239	2	KED
|	**Zn**	**66**	**18.964**	ug/L	0.404	2	41	10995	1	KED
|	**Zn**	**67**	**18.120**	ug/L	0.643	3	8	1709	2	KED
⌊	**As**	**75**	**0.047**	ug/L	0.004	8	3	17	5	KED
	Y	**89**		ug/L			284905	291651	2	Standard
	Kr	**83**		ug/L			45	43	24	Standard
⌈>	**In-1**	**115**		ug/L			8791	8660	1	KED
|	**Cd**	**111**	**0.019**	ug/L	0.013	70	4	10	37	KED
⌊	**Cd**	**114**	**0.015**	ug/L	0.007	44	3	14	34	KED
⌈>	**In**	**115**		ug/L			445913	451577	0	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.001	42	41	63	14	Standard
⌈>	**Tb**	**159**		ug/L			1137421	1142441	1	Standard
⌊	**Pb**	**208**	**0.190**	ug/L	0.002	1	280	15963	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0203-04
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 04:00:59
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			39923	67371	0	Standard
	Cl	37		ug/L			6850428	6415765	3	Standard
>	Sc	45		ug/L			616697	636288	2	Standard
	Cr	52	0.923	ug/L	0.053	5	14221	35397	0	Standard
	Cr	53	0.902	ug/L	0.017	1	394	2704	3	Standard
>	Ge	72		ug/L			40908	39628	1	KED
	Ni	60	0.613	ug/L	0.034	5	10	894	5	KED
	Ni	62	0.660	ug/L	0.111	16	5	160	16	KED
	Cu	63	3.165	ug/L	0.124	3	45	12696	2	KED
	Cu	65	3.160	ug/L	0.074	2	22	6492	1	KED
	Zn	66	43.529	ug/L	1.208	2	41	25121	3	KED
	Zn	67	40.747	ug/L	1.298	3	8	3825	3	KED
	As	75	0.601	ug/L	0.022	3	3	180	2	KED
	Y	89		ug/L			284905	296294	3	Standard
	Kr	83		ug/L			45	47	31	Standard
>	In-1	115		ug/L			8791	8595	1	KED
	Cd	111	0.058	ug/L	0.005	8	4	21	5	KED
	Cd	114	0.065	ug/L	0.008	13	3	50	11	KED
>	In	115		ug/L			445913	457461	3	Standard
	Ag	107	0.003	ug/L	0.000	5	41	94	4	Standard
>	Tb	159		ug/L			1137421	1150615	0	Standard
	Pb	208	1.860	ug/L	0.009	0	280	154536	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0218-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 04:04:33
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			39923	411591	1	Standard
	Cl	37		ug/L			6850428	5982900	4	Standard
>	Sc	45		ug/L			616697	620500	2	Standard
	Cr	52	38.842	ug/L	1.139	2	14221	865012	0	Standard
	Cr	53	38.881	ug/L	0.585	1	394	96959	0	Standard
>	Ge	72		ug/L			40908	31818	1	KED
	Ni	60	19.529	ug/L	0.292	1	10	22657	1	KED
	Ni	62	18.878	ug/L	0.442	2	5	3554	0	KED
	Cu	63	5.551	ug/L	0.018	0	45	17860	1	KED
	Cu	65	5.664	ug/L	0.059	1	22	9333	1	KED
	Zn	66	89.023	ug/L	0.810	0	41	41218	0	KED
	Zn	67	86.152	ug/L	2.666	3	8	6485	1	KED
	As	75	0.561	ug/L	0.062	11	3	135	10	KED
	Y	89		ug/L			284905	276333	1	Standard
	Kr	83		ug/L			45	52	18	Standard
>	In-1	115		ug/L			8791	7403	4	KED
	Cd	111	1.477	ug/L	0.053	3	4	370	3	KED
	Cd	114	1.521	ug/L	0.100	6	3	957	4	KED
>	In	115		ug/L			445913	398396	3	Standard
	Ag	107	0.038	ug/L	0.003	7	41	585	5	Standard
>	Tb	159		ug/L			1137421	1044908	1	Standard
	Pb	208	0.298	ug/L	0.008	2	280	22716	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0220-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 04:08:09
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			39923	144843	2	Standard
	Cl	**37**		ug/L			6850428	6171693	4	Standard
⌈>	**Sc**	**45**		ug/L			616697	575093	3	Standard
|	**Cr**	**52**	**0.919**	ug/L	0.023	2	14221	31914	2	Standard
⌊	**Cr**	**53**	**0.728**	ug/L	0.009	1	394	2044	4	Standard
⌈>	**Ge**	**72**		ug/L			40908	35315	2	KED
|	**Ni**	**60**	**0.615**	ug/L	0.047	7	10	800	6	KED
|	**Ni**	**62**	**0.512**	ug/L	0.032	6	5	111	4	KED
|	**Cu**	**63**	**3.436**	ug/L	0.030	0	45	12285	1	KED
|	**Cu**	**65**	**3.358**	ug/L	0.072	2	22	6147	1	KED
|	**Zn**	**66**	**36.149**	ug/L	0.016	0	41	18599	2	KED
|	**Zn**	**67**	**34.403**	ug/L	0.600	1	8	2879	2	KED
⌊	**As**	**75**	**0.157**	ug/L	0.005	2	3	44	4	KED
	Y	**89**		ug/L			284905	289315	2	Standard
	Kr	**83**		ug/L			45	35	12	Standard
⌈>	**In-1**	**115**		ug/L			8791	8108	1	KED
|	**Cd**	**111**	**0.069**	ug/L	0.015	22	4	23	18	KED
⌊	**Cd**	**114**	**0.070**	ug/L	0.007	10	3	50	10	KED
⌈>	**In**	**115**		ug/L			445913	453979	2	Standard
⌊	**Ag**	**107**	**0.007**	ug/L	0.001	13	41	157	7	Standard
⌈>	**Tb**	**159**		ug/L			1137421	1111651	0	Standard
⌊	**Pb**	**208**	**0.420**	ug/L	0.005	1	280	33956	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0221-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 04:11:44
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			39923	63217	1	Standard
	Cl	**37**		ug/L			6850428	6132491	3	Standard
⌈>	**Sc**	**45**		ug/L			616697	610456	2	Standard
|	**Cr**	**52**	**0.356**	ug/L	0.024	6	14221	21747	1	Standard
⌊	**Cr**	**53**	**0.364**	ug/L	0.035	9	394	1278	6	Standard
⌈>	**Ge**	**72**		ug/L			40908	35414	1	KED
|	**Ni**	**60**	**0.381**	ug/L	0.045	11	10	500	10	KED
|	**Ni**	**62**	**0.413**	ug/L	0.056	13	5	91	11	KED
|	**Cu**	**63**	**1.334**	ug/L	0.020	1	45	4807	1	KED
|	**Cu**	**65**	**1.348**	ug/L	0.117	8	22	2486	8	KED
|	**Zn**	**66**	**55.082**	ug/L	0.381	0	41	28400	1	KED
|	**Zn**	**67**	**52.736**	ug/L	1.883	3	8	4421	2	KED
⌊	**As**	**75**	**0.204**	ug/L	0.017	8	3	56	8	KED
	Y	**89**		ug/L			284905	295637	2	Standard
	Kr	**83**		ug/L			45	40	14	Standard
⌈>	**In-1**	**115**		ug/L			8791	8072	1	KED
|	**Cd**	**111**	**0.008**	ug/L	0.010	122	4	6	42	KED
⌊	**Cd**	**114**	**0.010**	ug/L	0.003	31	3	9	21	KED
⌈>	**In**	**115**		ug/L			445913	454709	0	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.001	71	41	65	24	Standard
⌈>	**Tb**	**159**		ug/L			1137421	1121190	1	Standard
⌊	**Pb**	**208**	**0.272**	ug/L	0.005	1	280	22286	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0225-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 04:15:19
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			39923	62640	2	Standard
	Cl	37		ug/L			6850428	6899798	4	Standard
>	Sc	45		ug/L			616697	793724	1	Standard
	Cr	52	0.029	ug/L	0.005	16	14221	19102	1	Standard
	Cr	53	1.207	ug/L	0.023	1	394	4343	2	Standard
>	Ge	72		ug/L			40908	33775	0	KED
	Ni	60	0.275	ug/L	0.011	3	10	346	3	KED
	Ni	62	0.288	ug/L	0.083	28	5	62	26	KED
	Cu	63	9.370	ug/L	0.014	0	45	31976	0	KED
	Cu	65	9.565	ug/L	0.178	1	22	16716	1	KED
	Zn	66	8.728	ug/L	0.235	2	41	4320	2	KED
	Zn	67	8.304	ug/L	0.450	5	8	669	5	KED
	As	75	0.449	ug/L	0.046	10	3	115	9	KED
	Y	89		ug/L			284905	287532	4	Standard
	Kr	83		ug/L			45	39	20	Standard
>	In-1	115		ug/L			8791	7635	1	KED
	Cd	111	0.013	ug/L	0.015	108	4	7	50	KED
	Cd	114	0.017	ug/L	0.008	45	3	13	35	KED
>	In	115		ug/L			445913	432383	1	Standard
	Ag	107	0.005	ug/L	0.002	32	41	125	22	Standard
>	Tb	159		ug/L			1137421	1106851	1	Standard
	Pb	208	0.592	ug/L	0.006	1	280	47528	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0245-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 04:18:53
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			39923	60805	1	Standard
	Cl	37		ug/L			6850428	6135415	4	Standard
>	Sc	45		ug/L			616697	594025	1	Standard
	Cr	52	0.995	ug/L	0.010	1	14221	34573	1	Standard
	Cr	53	1.066	ug/L	0.011	1	394	2914	1	Standard
>	Ge	72		ug/L			40908	36051	0	KED
	Ni	60	1.780	ug/L	0.045	2	10	2347	1	KED
	Ni	62	2.106	ug/L	0.099	4	5	453	5	KED
	Cu	63	276.260	ug/L	4.762	1	45	1005101	1	KED
	Cu	65	275.494	ug/L	1.456	0	22	513363	0	KED
	Zn	66	186.800	ug/L	0.844	0	41	97965	1	KED
	Zn	67	179.333	ug/L	3.709	2	8	15291	1	KED
	As	75	0.421	ug/L	0.023	5	3	115	5	KED
	Y	89		ug/L			284905	305336	2	Standard
	Kr	83		ug/L			45	41	12	Standard
>	In-1	115		ug/L			8791	7899	2	KED
	Cd	111	0.228	ug/L	0.025	10	4	64	10	KED
	Cd	114	0.253	ug/L	0.052	20	3	172	18	KED
>	In	115		ug/L			445913	447984	2	Standard
	Ag	107	0.008	ug/L	0.000	3	41	180	4	Standard
>	Tb	159		ug/L			1137421	1133203	1	Standard
	Pb	208	21.230	ug/L	0.327	1	280	1733935	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0245-02
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 04:22:34
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			39923	63818	3	Standard
	Cl	37		ug/L			6850428	6841068	4	Standard
⌈>	Sc	45		ug/L			616697	605217	2	Standard
|	Cr	52	0.446	ug/L	0.012	2	14221	23495	2	Standard
⌊	Cr	53	1.034	ug/L	0.031	3	394	2892	3	Standard
⌈>	Ge	72		ug/L			40908	35526	1	KED
|	Ni	60	1.372	ug/L	0.078	5	10	1786	6	KED
|	Ni	62	1.497	ug/L	0.223	14	5	319	14	KED
|	Cu	63	94.289	ug/L	0.980	1	45	338088	1	KED
|	Cu	65	94.873	ug/L	0.429	0	22	174226	1	KED
|	Zn	66	113.608	ug/L	0.630	0	41	58725	1	KED
|	Zn	67	109.761	ug/L	0.227	0	8	9226	1	KED
⌊	As	75	0.378	ug/L	0.011	2	3	103	3	KED
	Y	89		ug/L			284905	291225	2	Standard
	Kr	83		ug/L			45	38	5	Standard
⌈>	In-1	115		ug/L			8791	8049	0	KED
|	Cd	111	0.124	ug/L	0.015	12	4	37	10	KED
⌊	Cd	114	0.136	ug/L	0.015	10	3	95	9	KED
⌈>	In	115		ug/L			445913	446900	1	Standard
⌊	Ag	107	0.007	ug/L	0.001	11	41	151	7	Standard
⌈>	Tb	159		ug/L			1137421	1127163	0	Standard
⌊	Pb	208	3.270	ug/L	0.030	0	280	265936	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0251-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 04:26:09
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			39923	60014	1	Standard
	Cl	**37**		ug/L			6850428	6275131	2	Standard
⌈>	**Sc**	**45**		ug/L			616697	686399	1	Standard
|	**Cr**	**52**	**0.259**	ug/L	0.009	3	14221	22107	1	Standard
⌊	**Cr**	**53**	**0.482**	ug/L	0.005	1	394	1764	0	Standard
⌈>	**Ge**	**72**		ug/L			40908	35008	1	KED
|	**Ni**	**60**	**0.900**	ug/L	0.018	2	10	1156	2	KED
|	**Ni**	**62**	**0.906**	ug/L	0.121	13	5	192	12	KED
|	**Cu**	**63**	**2.703**	ug/L	0.069	2	45	9588	2	KED
|	**Cu**	**65**	**2.773**	ug/L	0.036	1	22	5037	2	KED
|	**Zn**	**66**	**8.712**	ug/L	0.123	1	41	4469	1	KED
|	**Zn**	**67**	**8.448**	ug/L	0.461	5	8	706	4	KED
⌊	**As**	**75**	**3.392**	ug/L	0.122	3	3	883	2	KED
	Y	**89**		ug/L			284905	313652	3	Standard
	Kr	**83**		ug/L			45	48	16	Standard
⌈>	**In-1**	**115**		ug/L			8791	8014	2	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.010	507	4	3	66	KED
⌊	**Cd**	**114**	**0.005**	ug/L	0.005	101	3	5	51	KED
⌈>	**In**	**115**		ug/L			445913	448062	2	Standard
⌊	**Ag**	**107**	**0.004**	ug/L	0.001	29	41	106	17	Standard
⌈>	**Tb**	**159**		ug/L			1137421	1136372	1	Standard
⌊	**Pb**	**208**	**0.096**	ug/L	0.001	1	280	8120	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLC
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 04:29:51
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			39923	36473	1	Standard
	Cl	**37**		ug/L			6850428	6265710	4	Standard
⌈>	**Sc**	**45**		ug/L			616697	576525	3	Standard
|	**Cr**	**52**	**-0.008**	ug/L	0.010	122	14221	13117	1	Standard
⌊	**Cr**	**53**	**-0.060**	ug/L	0.008	12	394	230	4	Standard
⌈>	**Ge**	**72**		ug/L			40908	35915	1	KED
|	**Ni**	**60**	**0.001**	ug/L	0.004	293	10	10	50	KED
|	**Ni**	**62**	**-0.006**	ug/L	0.018	313	5	3	100	KED
|	**Cu**	**63**	**0.032**	ug/L	0.042	130	45	156	97	KED
|	**Cu**	**65**	**0.029**	ug/L	0.045	156	22	73	112	KED
|	**Zn**	**66**	**0.090**	ug/L	0.036	40	41	83	22	KED
|	**Zn**	**67**	**0.078**	ug/L	0.083	105	8	13	51	KED
⌊	**As**	**75**	**-0.004**	ug/L	0.005	115	3	2	52	KED
	Y	**89**		ug/L			284905	282597	0	Standard
	Kr	**83**		ug/L			45	40	5	Standard
⌈>	**In-1**	**115**		ug/L			8791	8243	2	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.007	290	4	3	50	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.006	250	3	4	89	KED
⌈>	**In**	**115**		ug/L			445913	444768	4	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.001	60	41	22	49	Standard
⌈>	**Tb**	**159**		ug/L			1137421	1099958	0	Standard
⌊	**Pb**	**208**	**0.002**	ug/L	0.000	5	280	454	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVI
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 04:33:33
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			39923	37261	0	Standard
	Cl	**37**		ug/L			6850428	6292726	4	Standard
⌈>	**Sc**	**45**		ug/L			616697	583050	3	Standard
|	**Cr**	**52**	**49.309**	ug/L	1.044	2	14221	1028214	1	Standard
⌊	**Cr**	**53**	**50.078**	ug/L	0.697	1	394	117242	2	Standard
⌈>	**Ge**	**72**		ug/L			40908	36140	0	KED
|	**Ni**	**60**	**52.415**	ug/L	1.089	2	10	69055	1	KED
|	**Ni**	**62**	**51.827**	ug/L	1.691	3	5	11077	3	KED
|	**Cu**	**63**	**52.720**	ug/L	0.162	0	45	192321	0	KED
|	**Cu**	**65**	**52.849**	ug/L	0.798	1	22	98741	1	KED
|	**Zn**	**66**	**52.538**	ug/L	1.259	2	41	27645	2	KED
|	**Zn**	**67**	**52.498**	ug/L	1.094	2	8	4492	1	KED
⌊	**As**	**75**	**50.531**	ug/L	0.862	1	3	13535	1	KED
	Y	**89**		ug/L			284905	283872	4	Standard
	Kr	**83**		ug/L			45	39	24	Standard
⌈>	**In-1**	**115**		ug/L			8791	7964	0	KED
|	**Cd**	**111**	**54.034**	ug/L	0.668	1	4	14434	1	KED
⌊	**Cd**	**114**	**54.395**	ug/L	0.529	0	3	36814	0	KED
⌈>	**In**	**115**		ug/L			445913	437274	2	Standard
⌊	**Ag**	**107**	**48.994**	ug/L	0.463	0	41	782796	2	Standard
⌈>	**Tb**	**159**		ug/L			1137421	1120456	1	Standard
⌊	**Pb**	**208**	**58.424**	ug/L	0.596	1	280	4718303	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBI
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 04:39:58
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			39923	36779	2	Standard
	Cl	**37**		ug/L			6850428	6369222	4	Standard
⌈>	**Sc**	**45**		ug/L			616697	582881	1	Standard
|	**Cr**	**52**	**-0.015**	ug/L	0.014	93	14221	13137	1	Standard
⌊	**Cr**	**53**	**-0.095**	ug/L	0.006	6	394	151	7	Standard
⌈>	**Ge**	**72**		ug/L			40908	36921	2	KED
|	**Ni**	**60**	**0.002**	ug/L	0.004	171	10	12	39	KED
|	**Ni**	**62**	**-0.006**	ug/L	0.008	133	5	3	50	KED
|	**Cu**	**63**	**-0.000**	ug/L	0.005	1307	45	39	51	KED
|	**Cu**	**65**	**-0.001**	ug/L	0.003	365	22	19	26	KED
|	**Zn**	**66**	**-0.013**	ug/L	0.009	72	41	30	16	KED
|	**Zn**	**67**	**-0.027**	ug/L	0.051	188	8	5	86	KED
⌊	**As**	**75**	**-0.001**	ug/L	0.003	384	3	3	24	KED
	Y	**89**		ug/L			284905	289007	2	Standard
	Kr	**83**		ug/L			45	33	26	Standard
⌈>	**In-1**	**115**		ug/L			8791	8610	2	KED
|	**Cd**	**111**	**-0.010**	ug/L	0.006	66	4	1	100	KED
⌊	**Cd**	**114**	**0.004**	ug/L	0.003	64	3	6	34	KED
⌈>	**In**	**115**		ug/L			445913	445858	2	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.001	65	41	71	26	Standard
⌈>	**Tb**	**159**		ug/L			1137421	1120212	1	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.001	100	280	345	19	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0253-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 04:43:40
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			39923	61018	0	Standard
	Cl	**37**		ug/L			6850428	6405952	3	Standard
⌈>	**Sc**	**45**		ug/L			616697	635360	3	Standard
|	**Cr**	**52**	**0.653**	ug/L	0.025	3	14221	29285	1	Standard
⌊	**Cr**	**53**	**0.669**	ug/L	0.021	3	394	2107	3	Standard
⌈>	**Ge**	**72**		ug/L			40908	36360	0	KED
|	**Ni**	**60**	**1.113**	ug/L	0.007	0	10	1484	0	KED
|	**Ni**	**62**	**1.131**	ug/L	0.077	6	5	248	7	KED
|	**Cu**	**63**	**4.408**	ug/L	0.105	2	45	16215	1	KED
|	**Cu**	**65**	**4.490**	ug/L	0.035	0	22	8458	0	KED
|	**Zn**	**66**	**45.741**	ug/L	1.200	2	41	24218	1	KED
|	**Zn**	**67**	**45.139**	ug/L	1.198	2	8	3887	2	KED
⌊	**As**	**75**	**0.777**	ug/L	0.048	6	3	212	6	KED
	Y	**89**		ug/L			284905	297891	1	Standard
	Kr	**83**		ug/L			45	41	16	Standard
⌈>	**In-1**	**115**		ug/L			8791	8273	5	KED
|	**Cd**	**111**	**0.067**	ug/L	0.015	22	4	23	22	KED
⌊	**Cd**	**114**	**0.065**	ug/L	0.018	27	3	48	20	KED
⌈>	**In**	**115**		ug/L			445913	446106	1	Standard
⌊	**Ag**	**107**	**0.009**	ug/L	0.006	69	41	191	54	Standard
⌈>	**Tb**	**159**		ug/L			1137421	1113038	2	Standard
⌊	**Pb**	**208**	**0.461**	ug/L	0.005	0	280	37231	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0254-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 04:47:15
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			39923	65539	3	Standard
	Cl	**37**		ug/L			6850428	6280600	4	Standard
⌈>	**Sc**	**45**		ug/L			616697	649876	1	Standard
|	**Cr**	**52**	**0.224**	ug/L	0.010	4	14221	20115	1	Standard
⌊	**Cr**	**53**	**0.373**	ug/L	0.021	5	394	1385	4	Standard
⌈>	**Ge**	**72**		ug/L			40908	36476	1	KED
|	**Ni**	**60**	**0.585**	ug/L	0.032	5	10	786	4	KED
|	**Ni**	**62**	**0.541**	ug/L	0.088	16	5	121	17	KED
|	**Cu**	**63**	**4.437**	ug/L	0.051	1	45	16370	0	KED
|	**Cu**	**65**	**4.385**	ug/L	0.051	1	22	8288	2	KED
|	**Zn**	**66**	**14.796**	ug/L	0.556	3	41	7881	2	KED
|	**Zn**	**67**	**13.753**	ug/L	0.814	5	8	1193	5	KED
⌊	**As**	**75**	**0.733**	ug/L	0.061	8	3	201	6	KED
	Y	**89**		ug/L			284905	287617	3	Standard
	Kr	**83**		ug/L			45	51	26	Standard
⌈>	**In-1**	**115**		ug/L			8791	8179	1	KED
|	**Cd**	**111**	**0.071**	ug/L	0.004	6	4	23	4	KED
⌊	**Cd**	**114**	**0.059**	ug/L	0.002	4	3	43	5	KED
⌈>	**In**	**115**		ug/L			445913	447232	2	Standard
⌊	**Ag**	**107**	**0.000**	ug/L	0.001	573	41	43	23	Standard
⌈>	**Tb**	**159**		ug/L			1137421	1138039	0	Standard
⌊	**Pb**	**208**	**0.405**	ug/L	0.003	0	280	33511	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0264-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 04:50:50
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			39923	70140	1	Standard
	Cl	37		ug/L			6850428	6458846	4	Standard
>	Sc	45		ug/L			616697	608190	2	Standard
	Cr	52	0.276	ug/L	0.016	5	14221	19944	3	Standard
	Cr	53	0.205	ug/L	0.015	7	394	888	1	Standard
>	Ge	72		ug/L			40908	35858	0	KED
	Ni	60	1.198	ug/L	0.019	1	10	1575	0	KED
	Ni	62	1.243	ug/L	0.067	5	5	268	5	KED
	Cu	63	2.483	ug/L	0.084	3	45	9021	2	KED
	Cu	65	2.461	ug/L	0.021	0	22	4581	0	KED
	Zn	66	1.850	ug/L	0.107	5	41	1000	4	KED
	Zn	67	2.078	ug/L	0.417	20	8	183	19	KED
	As	75	0.280	ug/L	0.031	10	3	77	11	KED
	Y	89		ug/L			284905	286686	2	Standard
	Kr	83		ug/L			45	46	38	Standard
>	In-1	115		ug/L			8791	8106	2	KED
	Cd	111	-0.002	ug/L	0.006	259	4	3	43	KED
	Cd	114	0.002	ug/L	0.006	222	3	4	84	KED
>	In	115		ug/L			445913	447332	2	Standard
	Ag	107	0.007	ug/L	0.001	13	41	159	8	Standard
>	Tb	159		ug/L			1137421	1115924	1	Standard
	Pb	208	0.062	ug/L	0.001	1	280	5254	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0266-01
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Wednesday, May 03, 2023 04:54:25
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			39923	58459	3	Standard
	Cl	**37**		ug/L			6850428	6228367	4	Standard
⌈>	**Sc**	**45**		ug/L			616697	646815	2	Standard
|	**Cr**	**52**	**2.629**	ug/L	0.047	1	14221	74953	1	Standard
⌊	**Cr**	**53**	**2.823**	ug/L	0.096	3	394	7718	1	Standard
⌈>	**Ge**	**72**		ug/L			40908	36818	3	KED
|	**Ni**	**60**	**5.361**	ug/L	0.153	2	10	7200	0	KED
|	**Ni**	**62**	**5.974**	ug/L	0.069	1	5	1305	3	KED
|	**Cu**	**63**	**436.857**	ug/L	9.467	2	45	1622529	0	KED
|	**Cu**	**65**	**433.200**	ug/L	13.604	3	22	823888	0	KED
|	**Zn**	**66**	**309.297**	ug/L	2.606	0	41	165599	2	KED
|	**Zn**	**67**	**289.324**	ug/L	1.351	0	8	25191	2	KED
⌊	**As**	**75**	**0.964**	ug/L	0.067	6	3	266	3	KED
	Y	**89**		ug/L			284905	306269	1	Standard
	Kr	**83**		ug/L			45	32	17	Standard
⌈>	**In-1**	**115**		ug/L			8791	8233	0	KED
|	**Cd**	**111**	**0.258**	ug/L	0.043	16	4	75	15	KED
⌊	**Cd**	**114**	**0.287**	ug/L	0.015	5	3	203	5	KED
⌈>	**In**	**115**		ug/L			445913	444025	1	Standard
⌊	**Ag**	**107**	**0.036**	ug/L	0.002	6	41	632	4	Standard
⌈>	**Tb**	**159**		ug/L			1137421	1138412	1	Standard
⌊	**Pb**	**208**	**22.490**	ug/L	0.446	1	280	1845291	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0278-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 04:58:00
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			39923	60703	1	Standard
	Cl	**37**		ug/L			6850428	6332736	4	Standard
⌈>	**Sc**	**45**		ug/L			616697	608954	0	Standard
|	**Cr**	**52**	**0.320**	ug/L	0.008	2	14221	20930	1	Standard
⌊	**Cr**	**53**	**0.278**	ug/L	0.010	3	394	1067	3	Standard
⌈>	**Ge**	**72**		ug/L			40908	36368	0	KED
|	**Ni**	**60**	**0.753**	ug/L	0.015	2	10	1007	1	KED
|	**Ni**	**62**	**0.724**	ug/L	0.112	15	5	160	14	KED
|	**Cu**	**63**	**1.145**	ug/L	0.015	1	45	4243	1	KED
|	**Cu**	**65**	**1.151**	ug/L	0.028	2	22	2183	1	KED
|	**Zn**	**66**	**248.111**	ug/L	2.348	0	41	131247	0	KED
|	**Zn**	**67**	**236.250**	ug/L	3.148	1	8	20321	1	KED
⌊	**As**	**75**	**0.266**	ug/L	0.010	3	3	75	2	KED
	Y	**89**		ug/L			284905	291012	2	Standard
	Kr	**83**		ug/L			45	42	9	Standard
⌈>	**In-1**	**115**		ug/L			8791	8343	4	KED
|	**Cd**	**111**	**-0.003**	ug/L	0.006	220	4	3	43	KED
⌊	**Cd**	**114**	**0.020**	ug/L	0.015	75	3	17	64	KED
⌈>	**In**	**115**		ug/L			445913	443690	0	Standard
⌊	**Ag**	**107**	**0.006**	ug/L	0.001	24	41	137	17	Standard
⌈>	**Tb**	**159**		ug/L			1137421	1117151	1	Standard
⌊	**Pb**	**208**	**0.193**	ug/L	0.004	2	280	15798	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0301-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 05:01:36
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			39923	68323	2	Standard
	Cl	**37**		ug/L			6850428	22661811	3	Standard
⌈>	**Sc**	**45**		ug/L			616697	603513	2	Standard
|	**Cr**	**52**	**1.958**	ug/L	0.050	2	14221	55634	1	Standard
⌊	**Cr**	**53**	**16.741**	ug/L	0.173	1	394	40832	3	Standard
⌈>	**Ge**	**72**		ug/L			40908	31643	1	KED
|	**Ni**	**60**	**1.161**	ug/L	0.009	0	10	1347	1	KED
|	**Ni**	**62**	**1.260**	ug/L	0.167	13	5	240	12	KED
|	**Cu**	**63**	**5.853**	ug/L	0.113	1	45	18722	0	KED
|	**Cu**	**65**	**5.859**	ug/L	0.158	2	22	9598	1	KED
|	**Zn**	**66**	**69.215**	ug/L	1.355	1	41	31875	0	KED
|	**Zn**	**67**	**66.568**	ug/L	2.071	3	8	4986	2	KED
⌊	**As**	**75**	**0.761**	ug/L	0.052	6	3	181	7	KED
	Y	**89**		ug/L			284905	273432	1	Standard
	Kr	**83**		ug/L			45	122	8	Standard
⌈>	**In-1**	**115**		ug/L			8791	7213	0	KED
|	**Cd**	**111**	**0.060**	ug/L	0.016	26	4	18	20	KED
⌊	**Cd**	**114**	**0.038**	ug/L	0.007	18	3	26	17	KED
⌈>	**In**	**115**		ug/L			445913	386984	3	Standard
⌊	**Ag**	**107**	**0.011**	ug/L	0.002	15	41	186	10	Standard
⌈>	**Tb**	**159**		ug/L			1137421	1048828	0	Standard
⌊	**Pb**	**208**	**2.224**	ug/L	0.040	1	280	168330	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0301-02
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 05:05:11
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			39923	65097	2	Standard
	Cl	37		ug/L			6850428	6409892	3	Standard
⌈>	Sc	45		ug/L			616697	646100	1	Standard
|	Cr	52	3.441	ug/L	0.093	2	14221	93378	1	Standard
⌊	Cr	53	4.037	ug/L	0.051	1	394	10856	2	Standard
⌈>	Ge	72		ug/L			40908	37801	0	KED
|	Ni	60	2.733	ug/L	0.040	1	10	3774	0	KED
|	Ni	62	2.935	ug/L	0.145	4	5	660	4	KED
|	Cu	63	9.983	ug/L	0.136	1	45	38121	0	KED
|	Cu	65	10.100	ug/L	0.256	2	22	19752	2	KED
|	Zn	66	224.154	ug/L	2.653	1	41	123242	0	KED
|	Zn	67	213.907	ug/L	3.295	1	8	19124	1	KED
⌊	As	75	0.534	ug/L	0.025	4	3	153	4	KED
	Y	89		ug/L			284905	313103	2	Standard
	Kr	83		ug/L			45	41	38	Standard
⌈>	In-1	115		ug/L			8791	8315	4	KED
|	Cd	111	0.121	ug/L	0.013	10	4	38	6	KED
⌊	Cd	114	0.103	ug/L	0.022	21	3	75	22	KED
⌈>	In	115		ug/L			445913	457686	1	Standard
⌊	Ag	107	0.020	ug/L	0.001	6	41	370	5	Standard
⌈>	Tb	159		ug/L			1137421	1145066	1	Standard
⌊	Pb	208	6.342	ug/L	0.116	1	280	523658	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0368-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 05:08:52
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			39923	70532	0	Standard
	Cl	**37**		ug/L			6850428	6380197	3	Standard
⌈>	**Sc**	**45**		ug/L			616697	615958	2	Standard
|	**Cr**	**52**	**0.534**	ug/L	0.020	3	14221	25801	1	Standard
⌊	**Cr**	**53**	**0.567**	ug/L	0.019	3	394	1792	0	Standard
⌈>	**Ge**	**72**		ug/L			40908	38210	2	KED
|	**Ni**	**60**	**1.053**	ug/L	0.034	3	10	1474	0	KED
|	**Ni**	**62**	**1.086**	ug/L	0.095	8	5	250	9	KED
|	**Cu**	**63**	**4.718**	ug/L	0.161	3	45	18225	1	KED
|	**Cu**	**65**	**4.695**	ug/L	0.134	2	22	9288	0	KED
|	**Zn**	**66**	**15.462**	ug/L	0.437	2	41	8625	0	KED
|	**Zn**	**67**	**14.923**	ug/L	0.953	6	8	1354	5	KED
⌊	**As**	**75**	**0.191**	ug/L	0.019	10	3	57	10	KED
	Y	**89**		ug/L			284905	297806	2	Standard
	Kr	**83**		ug/L			45	29	3	Standard
⌈>	**In-1**	**115**		ug/L			8791	8494	0	KED
|	**Cd**	**111**	**0.031**	ug/L	0.012	40	4	13	25	KED
⌊	**Cd**	**114**	**0.033**	ug/L	0.016	48	3	26	42	KED
⌈>	**In**	**115**		ug/L			445913	456563	1	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.000	29	41	62	9	Standard
⌈>	**Tb**	**159**		ug/L			1137421	1154388	0	Standard
⌊	**Pb**	**208**	**0.820**	ug/L	0.005	0	280	68535	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0368-02
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 05:12:28
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			39923	205489	0	Standard
	Cl	37		ug/L			6850428	9034390	3	Standard
>	Sc	45		ug/L			616697	584867	1	Standard
	Cr	52	0.494	ug/L	0.008	1	14221	23690	2	Standard
	Cr	53	3.487	ug/L	0.028	0	394	8538	1	Standard
>	Ge	72		ug/L			40908	31379	1	KED
	Ni	60	0.165	ug/L	0.024	14	10	196	12	KED
	Ni	62	0.182	ug/L	0.049	26	5	38	21	KED
	Cu	63	15.614	ug/L	0.169	1	45	49476	1	KED
	Cu	65	15.610	ug/L	0.245	1	22	25334	1	KED
	Zn	66	8.733	ug/L	0.230	2	41	4015	1	KED
	Zn	67	8.702	ug/L	0.886	10	8	652	11	KED
	As	75	1.190	ug/L	0.046	3	3	279	2	KED
	Y	89		ug/L			284905	256281	2	Standard
	Kr	83		ug/L			45	50	21	Standard
>	In-1	115		ug/L			8791	7048	1	KED
	Cd	111	0.017	ug/L	0.003	16	4	7	6	KED
	Cd	114	0.007	ug/L	0.007	89	3	6	56	KED
>	In	115		ug/L			445913	370462	2	Standard
	Ag	107	0.003	ug/L	0.001	33	41	71	17	Standard
>	Tb	159		ug/L			1137421	985728	0	Standard
	Pb	208	1.675	ug/L	0.008	0	280	119250	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLD
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 05:16:09
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			39923	42725	1	Standard
	Cl	**37**		ug/L			6850428	6599896	4	Standard
⌈>	**Sc**	**45**		ug/L			616697	605429	1	Standard
|	**Cr**	**52**	**0.078**	ug/L	0.020	25	14221	15623	4	Standard
⌊	**Cr**	**53**	**0.080**	ug/L	0.013	15	394	580	6	Standard
⌈>	**Ge**	**72**		ug/L			40908	38626	0	KED
|	**Ni**	**60**	**-0.001**	ug/L	0.003	339	10	8	53	KED
|	**Ni**	**62**	**-0.001**	ug/L	0.021	1395	5	5	94	KED
|	**Cu**	**63**	**0.004**	ug/L	0.003	71	45	56	17	KED
|	**Cu**	**65**	**0.005**	ug/L	0.005	98	22	31	30	KED
|	**Zn**	**66**	**0.003**	ug/L	0.011	378	41	40	15	KED
|	**Zn**	**67**	**-0.030**	ug/L	0.032	106	8	5	57	KED
⌊	**As**	**75**	**-0.002**	ug/L	0.004	192	3	3	34	KED
	Y	**89**		ug/L			284905	289036	1	Standard
	Kr	**83**		ug/L			45	38	7	Standard
⌈>	**In-1**	**115**		ug/L			8791	8358	1	KED
|	**Cd**	**111**	**-0.005**	ug/L	0.002	36	4	3	17	KED
⌊	**Cd**	**114**	**0.005**	ug/L	0.002	33	3	6	17	KED
⌈>	**In**	**115**		ug/L			445913	449505	1	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.001	86	41	28	40	Standard
⌈>	**Tb**	**159**		ug/L			1137421	1129588	0	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.001	73	280	355	16	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVJ
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 05:21:15
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			39923	39498	1	Standard
	Cl	**37**		ug/L			6850428	6487391	3	Standard
⌈>	**Sc**	**45**		ug/L			616697	615287	2	Standard
|	**Cr**	**52**	**49.707**	ug/L	1.314	2	14221	1093853	1	Standard
⌊	**Cr**	**53**	**50.156**	ug/L	0.721	1	394	123912	0	Standard
⌈>	**Ge**	**72**		ug/L			40908	37951	1	KED
|	**Ni**	**60**	**52.928**	ug/L	0.690	1	10	73221	0	KED
|	**Ni**	**62**	**52.374**	ug/L	1.192	2	5	11754	1	KED
|	**Cu**	**63**	**53.235**	ug/L	1.604	3	45	203862	1	KED
|	**Cu**	**65**	**53.216**	ug/L	0.852	1	22	104394	1	KED
|	**Zn**	**66**	**53.400**	ug/L	1.336	2	41	29499	0	KED
|	**Zn**	**67**	**52.611**	ug/L	0.893	1	8	4728	2	KED
⌊	**As**	**75**	**51.712**	ug/L	0.671	1	3	14544	0	KED
	Y	**89**		ug/L			284905	288000	1	Standard
	Kr	**83**		ug/L			45	39	36	Standard
⌈>	**In-1**	**115**		ug/L			8791	8498	2	KED
|	**Cd**	**111**	**52.616**	ug/L	1.740	3	4	14990	1	KED
⌊	**Cd**	**114**	**53.310**	ug/L	2.037	3	3	38476	1	KED
⌈>	**In**	**115**		ug/L			445913	440347	3	Standard
⌊	**Ag**	**107**	**49.247**	ug/L	1.831	3	41	791803	0	Standard
⌈>	**Tb**	**159**		ug/L			1137421	1122923	3	Standard
⌊	**Pb**	**208**	**57.915**	ug/L	2.278	3	280	4682926	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBJ
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 05:27:40
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			39923	38711	3	Standard
	Cl	**37**		ug/L			6850428	6528221	3	Standard
⌈>	**Sc**	**45**		ug/L			616697	600736	1	Standard
|	**Cr**	**52**	**-0.003**	ug/L	0.006	196	14221	13784	2	Standard
⌊	**Cr**	**53**	**-0.052**	ug/L	0.005	9	394	259	4	Standard
⌈>	**Ge**	**72**		ug/L			40908	39005	2	KED
|	**Ni**	**60**	**0.012**	ug/L	0.013	110	10	26	67	KED
|	**Ni**	**62**	**0.013**	ug/L	0.036	280	5	8	96	KED
|	**Cu**	**63**	**0.020**	ug/L	0.031	152	45	121	97	KED
|	**Cu**	**65**	**0.024**	ug/L	0.032	136	22	68	91	KED
|	**Zn**	**66**	**0.009**	ug/L	0.070	793	41	43	87	KED
|	**Zn**	**67**	**-0.009**	ug/L	0.026	278	8	6	31	KED
⌊	**As**	**75**	**0.016**	ug/L	0.026	157	3	8	85	KED
	Y	**89**		ug/L			284905	285907	2	Standard
	Kr	**83**		ug/L			45	38	49	Standard
⌈>	**In-1**	**115**		ug/L			8791	8786	0	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.008	358	4	4	53	KED
⌊	**Cd**	**114**	**0.003**	ug/L	0.004	154	3	4	58	KED
⌈>	**In**	**115**		ug/L			445913	438947	1	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.000	30	41	67	10	Standard
⌈>	**Tb**	**159**		ug/L			1137421	1101683	0	Standard
⌊	**Pb**	**208**	**-0.000**	ug/L	0.000	99	280	247	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0561-BLK1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 05:31:22
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			39923	57024	0	Standard
	Cl	37		ug/L			6850428	6540933	2	Standard
⌈>	Sc	45		ug/L			616697	619007	1	Standard
|	Cr	52	0.060	ug/L	0.017	28	14221	15580	2	Standard
⌊	Cr	53	-0.011	ug/L	0.002	20	394	367	2	Standard
⌈>	Ge	72		ug/L			40908	38922	1	KED
|	Ni	60	0.016	ug/L	0.003	18	10	33	13	KED
|	Ni	62	0.012	ug/L	0.018	142	5	8	48	KED
|	Cu	63	0.570	ug/L	0.007	1	45	2283	2	KED
|	Cu	65	0.560	ug/L	0.018	3	22	1147	2	KED
|	Zn	66	0.730	ug/L	0.066	9	41	452	7	KED
|	Zn	67	0.708	ug/L	0.115	16	8	73	15	KED
⌊	As	75	-0.004	ug/L	0.002	58	3	2	28	KED
	Y	89		ug/L			284905	287659	4	Standard
	Kr	83		ug/L			45	35	16	Standard
⌈>	In-1	115		ug/L			8791	8562	0	KED
|	Cd	111	0.003	ug/L	0.010	362	4	5	50	KED
⌊	Cd	114	0.000	ug/L	0.003	651	3	3	63	KED
⌈>	In	115		ug/L			445913	452728	4	Standard
⌊	Ag	107	0.001	ug/L	0.002	237	41	57	60	Standard
⌈>	Tb	159		ug/L			1137421	1123610	0	Standard
⌊	Pb	208	0.006	ug/L	0.002	34	280	759	21	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0561-BS1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 05:35:03
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			39923	58819	1	Standard
	Cl	37		ug/L			6850428	6477248	3	Standard
>	Sc	45		ug/L			616697	608071	2	Standard
	Cr	52	27.064	ug/L	0.993	3	14221	594764	1	Standard
	Cr	53	27.334	ug/L	0.761	2	394	66900	1	Standard
>	Ge	72		ug/L			40908	38164	1	KED
	Ni	60	28.498	ug/L	0.089	0	10	39656	0	KED
	Ni	62	28.732	ug/L	0.550	1	5	6488	2	KED
	Cu	63	28.515	ug/L	0.171	0	45	109867	1	KED
	Cu	65	28.700	ug/L	0.198	0	22	56632	0	KED
	Zn	66	89.938	ug/L	0.768	0	41	49948	0	KED
	Zn	67	88.136	ug/L	2.120	2	8	7959	1	KED
	As	75	27.240	ug/L	0.242	0	3	7707	1	KED
	Y	89		ug/L			284905	287719	0	Standard
	Kr	83		ug/L			45	49	11	Standard
>	In-1	115		ug/L			8791	8211	1	KED
	Cd	111	28.311	ug/L	0.918	3	4	7796	1	KED
	Cd	114	28.369	ug/L	0.273	0	3	19797	1	KED
>	In	115		ug/L			445913	439767	2	Standard
	Ag	107	26.813	ug/L	0.642	2	41	430714	0	Standard
>	Tb	159		ug/L			1137421	1116334	1	Standard
	Pb	208	30.350	ug/L	0.459	1	280	2441982	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0298-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 05:38:45
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			39923	70219	1	Standard
	Cl	37		ug/L			6850428	6410235	2	Standard
>	Sc	45		ug/L			616697	621408	2	Standard
	Cr	52	0.960	ug/L	0.002	0	14221	35392	2	Standard
	Cr	53	0.907	ug/L	0.034	3	394	2651	2	Standard
>	Ge	72		ug/L			40908	38591	0	KED
	Ni	60	0.667	ug/L	0.041	6	10	947	5	KED
	Ni	62	0.659	ug/L	0.083	12	5	155	11	KED
	Cu	63	3.022	ug/L	0.094	3	45	11811	2	KED
	Cu	65	3.014	ug/L	0.048	1	22	6033	1	KED
	Zn	66	18.742	ug/L	0.387	2	41	10555	1	KED
	Zn	67	17.815	ug/L	0.351	1	8	1633	1	KED
	As	75	0.545	ug/L	0.013	2	3	159	1	KED
	Y	89		ug/L			284905	297966	2	Standard
	Kr	83		ug/L			45	43	4	Standard
>	In-1	115		ug/L			8791	8397	1	KED
	Cd	111	0.028	ug/L	0.019	66	4	12	39	KED
	Cd	114	0.028	ug/L	0.011	38	3	22	34	KED
>	In	115		ug/L			445913	454799	2	Standard
	Ag	107	0.008	ug/L	0.001	11	41	168	6	Standard
>	Tb	159		ug/L			1137421	1155217	1	Standard
	Pb	208	4.041	ug/L	0.017	0	280	336729	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0205-02
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Wednesday, May 03, 2023 05:42:51
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			39923	76896	2	Standard
	Cl	**37**		ug/L			6850428	8907350	4	Standard
⌈>	**Sc**	**45**		ug/L			616697	663452	3	Standard
|	**Cr**	**52**	**5.525**	ug/L	0.152	2	14221	144674	0	Standard
⌊	**Cr**	**53**	**7.255**	ug/L	0.129	1	394	19695	4	Standard
⌈>	**Ge**	**72**		ug/L			40908	33355	9	KED
|	**Ni**	**60**	**3.233**	ug/L	0.325	10	10	3916	4	KED
|	**Ni**	**62**	**3.400**	ug/L	0.243	7	5	672	3	KED
|	**Cu**	**63**	**12.093**	ug/L	1.177	9	45	40503	2	KED
|	**Cu**	**65**	**12.202**	ug/L	1.284	10	22	20919	1	KED
|	**Zn**	**66**	**30.223**	ug/L	2.598	8	41	14615	1	KED
|	**Zn**	**67**	**31.061**	ug/L	3.096	9	8	2441	1	KED
⌊	**As**	**75**	**1.663**	ug/L	0.135	8	3	412	1	KED
	Y	**89**		ug/L			284905	286139	1	Standard
	Kr	**83**		ug/L			45	50	8	Standard
⌈>	**In-1**	**115**		ug/L			8791	7907	2	KED
|	**Cd**	**111**	**0.047**	ug/L	0.017	36	4	16	27	KED
⌊	**Cd**	**114**	**0.031**	ug/L	0.012	37	3	23	32	KED
⌈>	**In**	**115**		ug/L			445913	420581	0	Standard
⌊	**Ag**	**107**	**0.008**	ug/L	0.001	16	41	164	12	Standard
⌈>	**Tb**	**159**		ug/L			1137421	1122709	2	Standard
⌊	**Pb**	**208**	**0.768**	ug/L	0.019	2	280	62430	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0205-04
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 05:46:32
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			39923	75491	1	Standard
	Cl	37		ug/L			6850428	8949085	3	Standard
>	Sc	45		ug/L			616697	657446	0	Standard
	Cr	52	6.010	ug/L	0.067	1	14221	154678	0	Standard
	Cr	53	8.264	ug/L	0.112	1	394	22170	1	Standard
>	Ge	72		ug/L			40908	36161	1	KED
	Ni	60	2.924	ug/L	0.074	2	10	3862	2	KED
	Ni	62	3.042	ug/L	0.393	12	5	654	11	KED
	Cu	63	12.153	ug/L	0.122	1	45	44395	2	KED
	Cu	65	12.108	ug/L	0.037	0	22	22650	1	KED
	Zn	66	35.431	ug/L	1.073	3	41	18662	1	KED
	Zn	67	34.284	ug/L	0.948	2	8	2938	2	KED
	As	75	1.483	ug/L	0.008	0	3	400	1	KED
	Y	89		ug/L			284905	288000	1	Standard
	Kr	83		ug/L			45	48	15	Standard
>	In-1	115		ug/L			8791	7866	1	KED
	Cd	111	0.051	ug/L	0.016	30	4	17	22	KED
	Cd	114	0.034	ug/L	0.009	26	3	25	22	KED
>	In	115		ug/L			445913	421164	2	Standard
	Ag	107	0.009	ug/L	0.001	10	41	171	7	Standard
>	Tb	159		ug/L			1137421	1100250	1	Standard
	Pb	208	0.861	ug/L	0.019	2	280	68536	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0205-06
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 05:50:13
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			39923	74817	0	Standard
	Cl	37		ug/L			6850428	9139345	2	Standard
⌈>	Sc	45		ug/L			616697	679113	1	Standard
|	Cr	52	5.649	ug/L	0.069	1	14221	151116	1	Standard
⌊	Cr	53	8.109	ug/L	0.105	1	394	22478	1	Standard
⌈>	Ge	72		ug/L			40908	35736	0	KED
|	Ni	60	3.145	ug/L	0.102	3	10	4104	2	KED
|	Ni	62	3.314	ug/L	0.171	5	5	705	5	KED
|	Cu	63	11.903	ug/L	0.010	0	45	42966	0	KED
|	Cu	65	11.827	ug/L	0.234	1	22	21864	1	KED
|	Zn	66	29.661	ug/L	0.621	2	41	15448	1	KED
|	Zn	67	29.896	ug/L	0.601	2	8	2532	1	KED
⌊	As	75	1.599	ug/L	0.010	0	3	426	1	KED
	Y	89		ug/L			284905	281951	1	Standard
	Kr	83		ug/L			45	42	13	Standard
⌈>	In-1	115		ug/L			8791	8016	2	KED
|	Cd	111	0.046	ug/L	0.009	18	4	16	16	KED
⌊	Cd	114	0.034	ug/L	0.004	12	3	25	11	KED
⌈>	In	115		ug/L			445913	431539	1	Standard
⌊	Ag	107	0.007	ug/L	0.000	7	41	149	7	Standard
⌈>	Tb	159		ug/L			1137421	1123436	2	Standard
⌊	Pb	208	0.851	ug/L	0.015	1	280	69169	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0206-02
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 05:53:48
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			39923	74520	1	Standard
	Cl	37		ug/L			6850428	9162054	2	Standard
>	Sc	45		ug/L			616697	667924	1	Standard
	Cr	52	4.510	ug/L	0.084	1	14221	121759	2	Standard
	Cr	53	7.158	ug/L	0.101	1	394	19563	0	Standard
>	Ge	72		ug/L			40908	34976	1	KED
	Ni	60	2.858	ug/L	0.115	4	10	3651	2	KED
	Ni	62	2.821	ug/L	0.192	6	5	587	6	KED
	Cu	63	9.560	ug/L	0.071	0	45	33780	0	KED
	Cu	65	9.663	ug/L	0.100	1	22	17488	1	KED
	Zn	66	25.353	ug/L	0.265	1	41	12928	0	KED
	Zn	67	26.456	ug/L	0.414	1	8	2194	0	KED
	As	75	1.591	ug/L	0.024	1	3	415	1	KED
	Y	89		ug/L			284905	285574	3	Standard
	Kr	83		ug/L			45	42	26	Standard
>	In-1	115		ug/L			8791	7891	3	KED
	Cd	111	0.021	ug/L	0.004	20	4	9	14	KED
	Cd	114	0.020	ug/L	0.012	59	3	16	52	KED
>	In	115		ug/L			445913	426386	1	Standard
	Ag	107	0.006	ug/L	0.001	8	41	139	6	Standard
>	Tb	159		ug/L			1137421	1108863	1	Standard
	Pb	208	1.383	ug/L	0.038	2	280	110762	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0206-04
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 05:57:29
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			39923	74720	1	Standard
	Cl	**37**		ug/L			6850428	9124284	5	Standard
⌈>	**Sc**	**45**		ug/L			616697	663830	1	Standard
|	**Cr**	**52**	**3.339**	ug/L	0.092	2	14221	93559	1	Standard
⌊	**Cr**	**53**	**5.869**	ug/L	0.056	0	394	16020	1	Standard
⌈>	**Ge**	**72**		ug/L			40908	36432	0	KED
|	**Ni**	**60**	**5.627**	ug/L	0.091	1	10	7482	2	KED
|	**Ni**	**62**	**5.687**	ug/L	0.019	0	5	1229	0	KED
|	**Cu**	**63**	**8.005**	ug/L	0.088	1	45	29472	1	KED
|	**Cu**	**65**	**8.032**	ug/L	0.080	0	22	15145	1	KED
|	**Zn**	**66**	**11.079**	ug/L	0.321	2	41	5905	2	KED
|	**Zn**	**67**	**12.137**	ug/L	0.111	0	8	1052	0	KED
⌊	**As**	**75**	**0.509**	ug/L	0.064	12	3	140	11	KED
	Y	**89**		ug/L			284905	283668	2	Standard
	Kr	**83**		ug/L			45	45	14	Standard
⌈>	**In-1**	**115**		ug/L			8791	7885	1	KED
|	**Cd**	**111**	**0.026**	ug/L	0.009	34	4	11	19	KED
⌊	**Cd**	**114**	**0.014**	ug/L	0.008	55	3	12	43	KED
⌈>	**In**	**115**		ug/L			445913	426975	1	Standard
⌊	**Ag**	**107**	**0.005**	ug/L	0.000	8	41	125	4	Standard
⌈>	**Tb**	**159**		ug/L			1137421	1127340	0	Standard
⌊	**Pb**	**208**	**0.857**	ug/L	0.005	0	280	69928	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0206-06
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 06:01:10
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			39923	76858	2	Standard
	Cl	**37**		ug/L			6850428	9180701	4	Standard
⌈>	**Sc**	**45**		ug/L			616697	668010	3	Standard
|	**Cr**	**52**	**4.607**	ug/L	0.067	1	14221	124034	2	Standard
⌊	**Cr**	**53**	**7.424**	ug/L	0.156	2	394	20272	2	Standard
⌈>	**Ge**	**72**		ug/L			40908	35687	1	KED
|	**Ni**	**60**	**7.330**	ug/L	0.111	1	10	9544	1	KED
|	**Ni**	**62**	**7.214**	ug/L	0.354	4	5	1526	3	KED
|	**Cu**	**63**	**9.735**	ug/L	0.079	0	45	35096	0	KED
|	**Cu**	**65**	**9.679**	ug/L	0.145	1	22	17871	1	KED
|	**Zn**	**66**	**24.892**	ug/L	0.597	2	41	12952	2	KED
|	**Zn**	**67**	**24.483**	ug/L	0.851	3	8	2072	2	KED
⌊	**As**	**75**	**1.518**	ug/L	0.109	7	3	404	5	KED
	Y	**89**		ug/L			284905	286061	1	Standard
	Kr	**83**		ug/L			45	43	37	Standard
⌈>	**In-1**	**115**		ug/L			8791	7952	1	KED
|	**Cd**	**111**	**0.010**	ug/L	0.005	51	4	6	20	KED
⌊	**Cd**	**114**	**0.017**	ug/L	0.011	62	3	14	50	KED
⌈>	**In**	**115**		ug/L			445913	427797	1	Standard
⌊	**Ag**	**107**	**0.005**	ug/L	0.001	20	41	117	13	Standard
⌈>	**Tb**	**159**		ug/L			1137421	1116511	2	Standard
⌊	**Pb**	**208**	**1.480**	ug/L	0.040	2	280	119288	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLE
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 06:04:52
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			39923	39538	0	Standard
	Cl	**37**		ug/L			6850428	6631806	3	Standard
⌈>	**Sc**	**45**		ug/L			616697	598754	2	Standard
|	**Cr**	**52**	**0.027**	ug/L	0.019	68	14221	14380	0	Standard
⌊	**Cr**	**53**	**0.266**	ug/L	0.006	2	394	1020	2	Standard
⌈>	**Ge**	**72**		ug/L			40908	37757	0	KED
|	**Ni**	**60**	**0.004**	ug/L	0.003	64	10	15	25	KED
|	**Ni**	**62**	**-0.009**	ug/L	0.005	52	5	3	34	KED
|	**Cu**	**63**	**0.008**	ug/L	0.003	39	45	70	16	KED
|	**Cu**	**65**	**-0.001**	ug/L	0.003	250	22	19	26	KED
|	**Zn**	**66**	**-0.011**	ug/L	0.030	258	41	31	51	KED
|	**Zn**	**67**	**0.000**	ug/L	0.021	503542	8	7	25	KED
⌊	**As**	**75**	**-0.005**	ug/L	0.002	38	3	2	24	KED
	Y	**89**		ug/L			284905	284892	3	Standard
	Kr	**83**		ug/L			45	40	31	Standard
⌈>	**In-1**	**115**		ug/L			8791	8349	1	KED
|	**Cd**	**111**	**-0.004**	ug/L	0.005	135	4	3	41	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.001	42	3	0	210	KED
⌈>	**In**	**115**		ug/L			445913	447695	2	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.000	21	41	22	19	Standard
⌈>	**Tb**	**159**		ug/L			1137421	1117686	0	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	199	280	295	13	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVK
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 06:08:33
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			39923	38854	0	Standard
	Cl	**37**		ug/L			6850428	6586033	2	Standard
⌈>	**Sc**	**45**		ug/L			616697	599958	2	Standard
|	**Cr**	**52**	**50.478**	ug/L	1.132	2	14221	1082812	0	Standard
⌊	**Cr**	**53**	**51.816**	ug/L	1.300	2	394	124784	0	Standard
⌈>	**Ge**	**72**		ug/L			40908	37680	1	KED
|	**Ni**	**60**	**52.771**	ug/L	0.766	1	10	72483	0	KED
|	**Ni**	**62**	**53.289**	ug/L	1.726	3	5	11871	1	KED
|	**Cu**	**63**	**52.563**	ug/L	0.820	1	45	199891	0	KED
|	**Cu**	**65**	**53.143**	ug/L	1.732	3	22	103489	2	KED
|	**Zn**	**66**	**52.355**	ug/L	1.326	2	41	28715	0	KED
|	**Zn**	**67**	**52.281**	ug/L	0.945	1	8	4665	2	KED
⌊	**As**	**75**	**51.242**	ug/L	0.626	1	3	14309	0	KED
	Y	**89**		ug/L			284905	285607	0	Standard
	Kr	**83**		ug/L			45	58	10	Standard
⌈>	**In-1**	**115**		ug/L			8791	8373	2	KED
|	**Cd**	**111**	**51.712**	ug/L	0.267	0	4	14521	1	KED
⌊	**Cd**	**114**	**52.933**	ug/L	0.968	1	3	37655	1	KED
⌈>	**In**	**115**		ug/L			445913	433940	2	Standard
⌊	**Ag**	**107**	**49.798**	ug/L	0.988	1	41	789425	1	Standard
⌈>	**Tb**	**159**		ug/L			1137421	1120096	1	Standard
⌊	**Pb**	**208**	**57.810**	ug/L	1.283	2	280	4666350	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBK
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 06:12:14
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			39923	38682	0	Standard
	Cl	**37**		ug/L			6850428	6587171	4	Standard
>	**Sc**	**45**		ug/L			616697	569124	11	Standard
	Cr	**52**	**0.051**	ug/L	0.109	214	14221	13988	4	Standard
	Cr	**53**	**0.050**	ug/L	0.049	96	394	470	10	Standard
>	**Ge**	**72**		ug/L			40908	38105	1	KED
	Ni	**60**	**0.014**	ug/L	0.010	67	10	29	44	KED
	Ni	**62**	**0.007**	ug/L	0.005	62	5	6	15	KED
	Cu	**63**	**0.017**	ug/L	0.010	61	45	106	36	KED
	Cu	**65**	**0.012**	ug/L	0.013	111	22	45	59	KED
	Zn	**66**	**-0.006**	ug/L	0.007	110	41	34	11	KED
	Zn	**67**	**-0.029**	ug/L	0.049	171	8	5	86	KED
	As	**75**	**0.013**	ug/L	0.006	41	3	7	20	KED
	Y	**89**		ug/L			284905	266129	9	Standard
	Kr	**83**		ug/L			45	51	9	Standard
>	**In-1**	**115**		ug/L			8791	8200	1	KED
	Cd	**111**	**-0.001**	ug/L	0.009	700	4	4	58	KED
	Cd	**114**	**-0.001**	ug/L	0.004	616	3	2	124	KED
>	**In**	**115**		ug/L			445913	422747	9	Standard
	Ag	**107**	**0.025**	ug/L	0.037	148	41	387	128	Standard
>	**Tb**	**159**		ug/L			1137421	1064670	7	Standard
	Pb	**208**	**0.032**	ug/L	0.053	167	280	2491	148	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 06:15:56
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			39923	41146	0	Standard
	Cl	**37**		ug/L			6850428	6480858	3	Standard
⌈>	**Sc**	**45**		ug/L			616697	649137	1	Standard
|	**Cr**	**52**	**-0.001**	ug/L	0.005	548	14221	14946	0	Standard
⌊	**Cr**	**53**	**-0.028**	ug/L	0.012	45	394	343	9	Standard
⌈>	**Ge**	**72**		ug/L			40908	37789	0	KED
|	**Ni**	**60**	**0.001**	ug/L	0.001	91	10	11	16	KED
|	**Ni**	**62**	**-0.015**	ug/L	0.000	0	5	1		KED
|	**Cu**	**63**	**0.003**	ug/L	0.002	59	45	52	11	KED
|	**Cu**	**65**	**0.002**	ug/L	0.003	186	22	24	27	KED
|	**Zn**	**66**	**0.001**	ug/L	0.017	1645	41	38	24	KED
|	**Zn**	**67**	**-0.028**	ug/L	0.065	228	8	5	114	KED
⌊	**As**	**75**	**-0.002**	ug/L	0.005	230	3	3	48	KED
	Y	**89**		ug/L			284905	328513	2	Standard
	Kr	**83**		ug/L			45	43	19	Standard
⌈>	**In-1**	**115**		ug/L			8791	8717	3	KED
|	**Cd**	**111**	**0.002**	ug/L	0.002	102	4	5	10	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.003	164	3	1	100	KED
⌈>	**In**	**115**		ug/L			445913	495595	1	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.000	40	41	61	9	Standard
⌈>	**Tb**	**159**		ug/L			1137421	1216393	0	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	10	280	418	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 06:19:37
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			39923	40590	0	Standard
	Cl	**37**		ug/L			6850428	6476612	4	Standard
⌈>	**Sc**	**45**		ug/L			616697	651821	2	Standard
|	**Cr**	**52**	**-0.010**	ug/L	0.009	95	14221	14807	0	Standard
⌊	**Cr**	**53**	**-0.043**	ug/L	0.009	21	394	305	8	Standard
⌈>	**Ge**	**72**		ug/L			40908	37522	1	KED
|	**Ni**	**60**	**0.002**	ug/L	0.008	321	10	12	85	KED
|	**Ni**	**62**	**-0.018**	ug/L	0.010	55	5	1	173	KED
|	**Cu**	**63**	**-0.000**	ug/L	0.001	4208	45	41	14	KED
|	**Cu**	**65**	**0.004**	ug/L	0.004	105	22	27	25	KED
|	**Zn**	**66**	**0.002**	ug/L	0.011	743	41	38	17	KED
|	**Zn**	**67**	**0.023**	ug/L	0.096	416	8	9	87	KED
⌊	**As**	**75**	**-0.006**	ug/L	0.004	63	3	2	48	KED
	Y	**89**		ug/L			284905	325903	1	Standard
	Kr	**83**		ug/L			45	45	2	Standard
⌈>	**In-1**	**115**		ug/L			8791	8888	2	KED
|	**Cd**	**111**	**-0.011**	ug/L	0.005	45	4	1	91	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.001	164	3	2	46	KED
⌈>	**In**	**115**		ug/L			445913	484849	1	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.000	18	41	27	10	Standard
⌈>	**Tb**	**159**		ug/L			1137421	1209869	1	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	65	280	355	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 06:23:19
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			39923	40508	1	Standard
	Cl	**37**		ug/L			6850428	6458944	3	Standard
⌈>	**Sc**	**45**		ug/L			616697	647090	2	Standard
|	**Cr**	**52**	**-0.010**	ug/L	0.007	64	14221	14683	1	Standard
⌊	**Cr**	**53**	**-0.051**	ug/L	0.005	10	394	282	4	Standard
⌈>	**Ge**	**72**		ug/L			40908	37770	1	KED
|	**Ni**	**60**	**0.000**	ug/L	0.004	3990	10	9	52	KED
|	**Ni**	**62**	**0.005**	ug/L	0.013	270	5	6	45	KED
|	**Cu**	**63**	**0.003**	ug/L	0.003	134	45	51	25	KED
|	**Cu**	**65**	**-0.000**	ug/L	0.002	3500	22	20	18	KED
|	**Zn**	**66**	**0.001**	ug/L	0.017	1377	41	38	23	KED
|	**Zn**	**67**	**0.007**	ug/L	0.053	749	8	8	58	KED
⌊	**As**	**75**	**-0.005**	ug/L	0.005	102	3	2	52	KED
	Y	**89**		ug/L			284905	319967	2	Standard
	Kr	**83**		ug/L			45	43	16	Standard
⌈>	**In-1**	**115**		ug/L			8791	8819	1	KED
|	**Cd**	**111**	**0.001**	ug/L	0.007	732	4	5	43	KED
⌊	**Cd**	**114**	**0.003**	ug/L	0.003	108	3	4	42	KED
⌈>	**In**	**115**		ug/L			445913	492232	3	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.000	15	41	22	17	Standard
⌈>	**Tb**	**159**		ug/L			1137421	1189835	1	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	28	280	346	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 06:27:00
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			39923	38577	1	Standard
	Cl	**37**		ug/L			6850428	6446635	3	Standard
⌈>	**Sc**	**45**		ug/L			616697	569641	1	Standard
|	**Cr**	**52**	**-0.009**	ug/L	0.018	194	14221	12944	2	Standard
⌊	**Cr**	**53**	**-0.036**	ug/L	0.012	33	394	281	11	Standard
⌈>	**Ge**	**72**		ug/L			40908	36616	1	KED
|	**Ni**	**60**	**-0.003**	ug/L	0.002	46	10	4	49	KED
|	**Ni**	**62**	**0.003**	ug/L	0.009	314	5	5	33	KED
|	**Cu**	**63**	**-0.000**	ug/L	0.002	879	45	39	22	KED
|	**Cu**	**65**	**-0.003**	ug/L	0.002	43	22	13	20	KED
|	**Zn**	**66**	**-0.029**	ug/L	0.005	18	41	21	13	KED
|	**Zn**	**67**	**-0.019**	ug/L	0.059	314	8	5	88	KED
⌊	**As**	**75**	**-0.004**	ug/L	0.003	68	3	2	34	KED
	Y	**89**		ug/L			284905	269254	2	Standard
	Kr	**83**		ug/L			45	36	23	Standard
⌈>	**In-1**	**115**		ug/L			8791	8109	0	KED
|	**Cd**	**111**	**-0.001**	ug/L	0.002	215	4	4	13	KED
⌊	**Cd**	**114**	**0.003**	ug/L	0.004	137	3	4	60	KED
⌈>	**In**	**115**		ug/L			445913	411886	0	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.000	35	41	18	39	Standard
⌈>	**Tb**	**159**		ug/L			1137421	1077311	1	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.000	19	280	158	11	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 06:30:41
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			39923	38851	2	Standard
	Cl	**37**		ug/L			6850428	6477016	3	Standard
⎡>	**Sc**	**45**		ug/L			616697	558868	2	Standard
⎢	**Cr**	**52**	**0.009**	ug/L	0.011	120	14221	13058	0	Standard
⎣	**Cr**	**53**	**-0.033**	ug/L	0.008	25	394	283	7	Standard
⎡>	**Ge**	**72**		ug/L			40908	36678	0	KED
⎢	**Ni**	**60**	**-0.002**	ug/L	0.001	53	10	6	15	KED
⎢	**Ni**	**62**	**-0.012**	ug/L	0.005	42	5	2	43	KED
⎢	**Cu**	**63**	**0.000**	ug/L	0.002	457	45	41	16	KED
⎢	**Cu**	**65**	**-0.000**	ug/L	0.002	524	22	19	22	KED
⎢	**Zn**	**66**	**-0.024**	ug/L	0.004	16	41	24	9	KED
⎢	**Zn**	**67**	**-0.027**	ug/L	0.046	171	8	5	78	KED
⎣	**As**	**75**	**-0.004**	ug/L	0.003	71	3	2	28	KED
	Y	**89**		ug/L			284905	260581	0	Standard
	Kr	**83**		ug/L			45	33	8	Standard
⎡>	**In-1**	**115**		ug/L			8791	8034	1	KED
⎢	**Cd**	**111**	**-0.009**	ug/L	0.006	68	4	1	86	KED
⎣	**Cd**	**114**	**0.002**	ug/L	0.003	138	3	4	48	KED
⎡>	**In**	**115**		ug/L			445913	411998	2	Standard
⎣	**Ag**	**107**	**-0.001**	ug/L	0.001	72	41	25	38	Standard
⎡>	**Tb**	**159**		ug/L			1137421	1051311	2	Standard
⎣	**Pb**	**208**	**-0.002**	ug/L	0.000	2	280	134	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 06:34:23
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050223A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			39923	38271	3	Standard
	Cl	**37**		ug/L			6850428	6476685	3	Standard
⎡>	**Sc**	**45**		ug/L			616697	555202	2	Standard
⎢	**Cr**	**52**	**0.008**	ug/L	0.018	222	14221	12954	1	Standard
⎣	**Cr**	**53**	**-0.049**	ug/L	0.001	1	394	246	1	Standard
⎡>	**Ge**	**72**		ug/L			40908	37042	1	KED
⎢	**Ni**	**60**	**-0.004**	ug/L	0.002	35	10	3	69	KED
⎢	**Ni**	**62**	**-0.015**	ug/L	0.000	1	5	1		KED
⎢	**Cu**	**63**	**-0.001**	ug/L	0.001	163	45	38	10	KED
⎢	**Cu**	**65**	**-0.003**	ug/L	0.002	85	22	15	24	KED
⎢	**Zn**	**66**	**-0.027**	ug/L	0.003	10	41	22	8	KED
⎢	**Zn**	**67**	**-0.042**	ug/L	0.037	87	8	3	86	KED
⎣	**As**	**75**	**-0.005**	ug/L	0.004	85	3	2	53	KED
	Y	**89**		ug/L			284905	257783	2	Standard
	Kr	**83**		ug/L			45	30	12	Standard
⎡>	**In-1**	**115**		ug/L			8791	8024	2	KED
⎢	**Cd**	**111**	**-0.003**	ug/L	0.004	143	4	3	31	KED
⎣	**Cd**	**114**	**0.005**	ug/L	0.005	86	3	6	46	KED
⎡>	**In**	**115**		ug/L			445913	414701	2	Standard
⎣	**Ag**	**107**	**-0.002**	ug/L	0.001	39	41	14	61	Standard
⎡>	**Tb**	**159**		ug/L			1137421	1048012	1	Standard
⎣	**Pb**	**208**	**-0.002**	ug/L	0.000	14	280	135	13	Standard

INITIAL CALIBRATION DATA

EPA 6020B

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GE00019	Instrument:	ICPMS1
Calibration Date:	05/03/2023 13:32		

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF
Lead-208	0	0	0.1	90550	10	85046.9	20	84283.3	50	82403.54	100	78992.83

INITIAL CALIBRATION DATA

EPA 6020B

Laboratory: Analytical Resources, LLC
Instrument: ICPMS1
Calibration: GE00019
Calibration Date: 5/3/2023

COMPOUND	Mean RF	RF RSD	Linear COD	Quad COD	COD Limit	Q
Lead-208	70212.76	49.3	0.9995		0.998	

INITIAL CALIBRATION DATA

EPA 6020B UCT-KED

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GE00019	Instrument:	ICPMS1
Calibration Date:	05/03/2023 13:32		

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF
Arsenic-75a	0	0	0.2	390	10	339.6	20	337.55	50	321.36	100	317.69
Copper-63	0	0	0.5	5158	10	5004.8	20	4838.45	50	4628.62	100	4469.13
Copper-65	0	0	0.5	2640	10	2522.8	20	2422.95	50	2325.16	100	2259.61
Zinc-66	0	0	6	698.6667	10	675.2	20	676.75	50	636.58	100	614
Zinc-67	0	0	6	103.8333	10	110.7	20	110.5	50	104.88	100	101.79

INITIAL CALIBRATION DATA

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Instrument: ICPMS1
Calibration: GE00019
Calibration Date: 5/3/2023

COMPOUND	Mean RF	RF RSD	Linear COD	Quad COD	COD Limit	Q
Arsenic-75a	284.3667	49.8	0.9998		0.998	
Copper-63	4016.5	49.4	0.9995		0.998	
Copper-65	2028.42	49.4	0.9996		0.998	
Zinc-66	550.1994	49.3	0.9995		0.998	
Zinc-67	88.61722	49.2	0.9996		0.998	

Analytical Resources, Incorporated
Analytical Chemists and Consultants

ICP/MS - 01 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 85DN5032601

Analysis Date: 5/3/23 **Analyst:** MB **Sequence:** SLEΦΦ71 **Cal:** GEΦΦΦ19

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
	✓	SEQ-CAL1	—		Method fixed
	✓	-CAL1	—		
	✓	-CAL2	—		In noisy
		SEQ-CAL1	LSΦ13		
		-CAL2	L4627		
		-CAL3	L4628		Se sl. noisy int, B-Value + QC OK
		-CAL4	L4629		
		-CAL5	L4889		
		-CAL6	L463Φ		
		-IBL1	—		
		-ICV1	L3575		
		-ICB1	LSΦ13		
		-CCV1	L4889		
		-CCB1	LSΦ13		
		-CRL1	L4627		
		-IFA1	L4688		Cr^{53} ↑
		-IFB1	L4689		↓
		-HCV1	L478Φ		
		-HCV2	L4781		
		-IBL2	—		(S6↑/Cd↑+ noisy)
		-IBL3	—		
		-CCV2			
		-CCB2			
		BLDΦ755-BLK1	REN		

Analytical Resources, Incorporated
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ICP/MS - 01 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 85DN5032601

Analysis Date: 5/3/23 **Analyst:** MB **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		BLDΦ755-BS1	REN		
		BLEΦΦ78-BLK1	↓		
		↓ -BS1	↓		
		23EΦΦ24-Φ1	↓	2	
		23EΦΦΦ4-Φ1	↓	↓	
		23EΦΦ43-Φ1	↓	5	
		23DΦ285-Φ1	↓	2	
		23DΦ293-Φ4	↓	↓	Zn↑ Zn NR
		SEQ-IBL4	↓	↓	
		-CCV3	↓	↓	
		-CCB3	↓	↓	
	✓	-CAL1	↓	↓	Mn Removed
		-CCV4	↓	↓	
		-CCB4	↓	↓	
		BLEΦ1Φ8-BLK1	REN	↓	
		↓ -BS1	↓	↓	
		23DΦ293-Φ4RE1	↓	20	Zn only
		23DΦ3Φ5-Φ1	↓	↓	Zn↑ Zn NR
		23DΦ473-Φ1	↓	2	↓ ↓
		23DΦ593-Φ1	↓	↓	Pb only
		-Φ2	↓	↓	Tb noisy-%R & Analytes OK ↓
		-Φ3	↓	↓	↓
		-Φ4	↓	↓	↓
		SEQ-IBL5	↓	↓	

Analytical Resources, Incorporated
Analytical Chemists and Consultants

ICP/MS - 01 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 85DN5032601

Analysis Date: 5/3/23 **Analyst:** MS **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ-CCV5			
		↓ -CCB5			
		BLDΦ452-PS2	SWN	100	60mL K7409 Zn only
		230ΦΦ72-Φ1	REN	↓	Pb only
		230Φ3Φ5-ΦIRE1	↓	↓	Zn only
		230Φ473-ΦIRE1	↓	10	↓
		230Φ1Φ1-Φ1	↓	2	Pb only
		230Φ479-Φ1	↓	↓	
		230Φ679-Φ1	↓	↓	
		↓ -Φ2	↓	↓	
		↓ -Φ3	↓	↓	
		SEQ-IBL6			
		↓ -CCV6			
		↓ -CCB6			
		230Φ683-Φ1	REN	10	
		23EΦΦ38-Φ2	↓	2	
		230Φ645-Φ1	↓	↓	
		BLEΦ1Φ8-DUP1	↓	↓	
		↓ -MS1	↓	↓	
		SEQ-IBL7			
		230Φ375-Φ2	REN		Ba,Ni,Se only
		BLEΦΦ18-DUP2	↓		↓
		↓ -MS2	↓		
		SEQ-IBL8			

Analytical Resources, Incorporated
Analytical Chemists and Consultants

ICP/MS - 01 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 85DN5032601

Analysis Date: 5/3/23 **Analyst:** MS **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ-CCV7			
		-CCB7			
	✓	-CAL1			Ag, Ba, Cd, Cr, Ni Removed
		-CCV8			
		-CCB8			
		BLØ4Ø4-BLK1	REN		Cu↑(1.481 / 1.496) - Re-run to confirm
		-BS1			
		BLØ511-BLK1			
		-BS1			
	✓	BLEØØ68-BLK1	DGT	10	
		23CØ678-19			
		-2Ø			
		-21			
		-22			
		SEQ-IBL9			
		-CCV9			
		-CCB9			
		BLØ652-BLK1	REN		
		-BS1			
		BLØ73Ø-BLK1			
		-BS1			
	✓	23CØ678-23	DGT	10	
		-24			
		-25			

Analytical Resources, Incorporated
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ICP/MS - 01 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 85DN5032601

Analysis Date: 5/3/23 **Analyst:** MB **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
	✓	23CΦ678-26	DGT	10	
	✓	↓ -27	↓	↓	
		SEQ-IBLA			
		-CCVA			
		↓ -CCBA			
		230Φ15Φ-Φ1	REN		
		-Φ3			
		-Φ5			
		↓ -Φ7	↓		
		SEQ-IBLB			
		230Φ15Φ-11	REN		
		BLOΦ559-DUP1			
		-MS1			
		↓ -MSD1	↓		Zn %R? Zn RPD?
		SEQ-IBLC			
		-CCVB			
		↓ -CCBB			
		230Φ15Φ-Φ9	REN		No As, Se
		-13			Dy, Tb noisy - %R of Analytes OK
		-15			
		↓ -17	↓		↓
		SEQ-IBLD			
		230Φ15Φ-19	REN		No As, Se
		230Φ145-Φ1	↓		↓

Analytical Resources, Incorporated
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ICP/MS - 01 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 85DN5032601

Analysis Date: 5/3/23 **Analyst:** MS **Sequence:** — **Cal:** —

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		230Φ145-Φ3	REN		No As, Se
		↓ -Φ5	↓		↓
		SEQ-IBLE			
		-CCVC			Ge noisy
		-CCBC			
		230ΦΦ73-Φ1	REN		Pb only
	✓	230ΦΦ75-Φ3	↓	5	
		230ΦΦ99-Φ1	↓	↓	Pb only
		230Φ145-Φ7	↓	↓	No As, Se
		SEQ-IBLF			
		230Φ111-Φ2	REN		Pb only
		230Φ113-Φ1	↓	100	↓
		230Φ147-Φ1	↓		
	✓	230Φ2Φ5-Φ2	↓		
		SEQ-IBLG			
		-CCVD			
		-CCBD			Ge noisy - %R & Analytes OK
	✓	-CAL1			
		-CCVE			
		-CCBE			
		230Φ177-Φ5	REN		Cu, Pb, Zn only
		-Φ1	↓		Pb only
		-Φ3	↓		↓
2x D:1		↓ -Φ7	↓	2	↓

Analytical Resources, Incorporated
Analytical Chemists and Consultants

ICP/MS - 01 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 85DN5032601

Analysis Date: 5/3/23 **Analyst:** MB **Sequence:** _____ **Cal:** _____

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		230Φ2Φ1-Φ1	REN		Pb only
		↓ -Φ2	↓		↓
		230Φ218-Φ1	↓	2	↓
		230Φ221-Φ1	↓	↓	↓
		230Φ245-Φ1	↓	↓	Cu only
		SEQ-IBLH	↓	↓	↓
		↓ -CCVF	↓	↓	↓
		↓ -CCBF	↓	↓	↓
		230Φ254-Φ1	REN	↓	Pb only
		230Φ266-Φ1	↓	10	↓
		230Φ278-Φ1	↓	↓	Pb only
		230Φ234-Φ7	↓	↓	Re-prep for Cu; Cu NR
		230Φ241-Φ2	↓	↓	↓
		↓ -Φ4	↓	↓	Gest. noisy-%R ✓Analytes OK
		230Φ242-Φ2	↓	↓	↓
		↓ -Φ4	↓	↓	↓
		↓ -Φ5	↓	↓	↓
		SEQ-IBLI	↓	↓	↓
		↓ -CCVG	↓	↓	↓
		↓ -CCBG	↓	↓	↓
		BLDΦ652-SRL1	REN	5	↓
		BLDΦ4Φ4-SRL1	↓	↓	Cu NR
		230Φ233-Φ7	↓	↓	Re-prep for Cu
		BLDΦ4Φ4-DUP1	↓	↓	↓

Analytical Resources, Incorporated
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ICP/MS - 01 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 85DN5032601

Analysis Date: 5/3/23 **Analyst:** MB **Sequence:** — **Cal:** —

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		BLOΦ4Φ4-MS1	REN		Cu NR
		↓ -PS1			GO.wk K74109 ↓
		230Φ233-Φ4			
		BLOΦ652-DUP1			
		-MS1			
		↓ -PS1	↓		GO.wk K74109
		SEQ-CCVH			
		↓ -CCBH			
		BLOΦ73Φ-SRL1	REN	5	
		230Φ435-Φ2			
		BLOΦ73Φ-DUP1			
		-MS1			
		↓ -PS1			GO.wk K74109
		230Φ234-Φ4			
		230Φ435-Φ1			
		↓ -Φ3	↓		
		23AΦ455-15	SWN	20	As, Cu, Pb, Zn only
		SEQ-CCVI			
		-CCBI			
	✓	-CAL1			
		-CCVJ			
		↓ -CCBJ			
		23AΦ455-Φ2	SWN	20	As, Cu, Zn only
		↓ -Φ3	↓	↓	↓

Analytical Resources, Incorporated
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ICP/MS - 01 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 85DN5032601

Analysis Date: 5/3/23 **Analyst:** MB **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		23AΦ455-Φ4	SWN	20	As, Co, Zn only
		-Φ5			
		-Φ6			
		-Φ7			
		-Φ8			
		-1Φ			
		-11			
		-16			Pb only
		SEQ-CCVK			
		-CCBK			
		23AΦ455-17	SWN	20	Pb only
		230Φ364-Φ1	REN		
		-Φ2			
		230Φ370-Φ2			
		-Φ4			
		230Φ363-Φ4			
		-Φ2			
		BLDΦ511-DUP1			
		-MS1			
		SEQ-IBLK			
		-CCVL			
		-CCBL			
		230Φ372-Φ2	REN		
		-Φ4			

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 85DN5032601

Analysis Date: 5/3/23 **Analyst:** MB **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		23D0372-06	REN		
		↓ -08	↓		
		23D0388-02			In↓ - Not Needed
	✓	-04			Ge, In, Tb↓
	✓	-06			↓
		↓ -08			In↓ - Not Needed
		230435-04	↓		
		SEQ-IBLL			
		-CCVM			
		↓ -CCBM			
		23D0435-05	REN		
		-06	↓		
		-07			
		-09			
		↓ -10			
		23D0514-05			
		BLE0078-DUP1			
		-MS1			
		↓ -MSD1	↓		
		SEQ-IBLM			
		-CCVN			
		↓ -CCBN			
		Rinse/DI			
		MS 5/3/23			

Performance Check Report

Sample ID: STD Performance Check
Sample Date/Time: Wednesday, May 03, 2023 11:59:54
Sample Description:
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\STD Performance Check.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Default\STD Performance Check.103
MassCal File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Conditions File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Dual Detector Mode: Pulse
Acq. Dead Time (ns): 35
Current Dead Time (ns): 35
Torch Z position (mm): 0.00

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD	Mode
	Be	9.0	9556.6	9556.596	60.711	0.6	Standard
	In	114.9	80179.1	-365734.807	997.108	0.3	Standard
	U	238.1	99321.8	99321.807	1565.716	1.6	Standard
⌈	CeO	155.9	2396.6	0.022	0.000	1.5	Standard
| >	Ce	139.9	110319.4	110319.378	1397.036	1.3	Standard
⌊	Ce++	70.0	1538.1	0.014	0.001	4.2	Standard
	Bkgd	220.0	0.9	0.867	0.380	43.9	Standard

Current Conditions File Data

Current Value	Description
0.91	Nebulizer Gas Flow STD/KED [NEB]
1.20	Auxiliary Gas Flow
17.50	Plasma Gas Flow
-10.75	Deflector Voltage
1600.00	ICP RF Power
-1600.00	Analog Stage Voltage
1000.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset STD [QRO]
-10.00	Cell Rod Offset STD [CRO]
14.00	Discriminator Threshold
-5.00	Cell Entrance/Exit Voltage STD
0.00	RPa
0.45	RPq
0.91	DRC Mode NEB
-7.50	DRC Mode QRO
-2.00	DRC Mode CRO
-5.00	DRC Mode Cell Entrance/Exit Voltage
0.60	Cell Gas A
0.00	Cell Gas B
200.00	Axial Field Voltage
-11.00	KED Mode CRO
-12.00	KED Mode QRO
-11.00	KED Mode Cell Entrance Voltage
-33.00	KED Mode Cell Exit Voltage
0.00	KED Cell Gas A
3.00	KED Cell Gas B
0.00	KED RPa
0.25	KED RPq
125.00	KED Mode Axial Field Voltage

Performance Check Report

Sample ID: STD Performance Check
Sample Date/Time: Wednesday, May 03, 2023 12:11:02
Sample Description:
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\STD Performance Check.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Default\STD Performance Check.109
MassCal File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Conditions File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Dual Detector Mode: Pulse
Acq. Dead Time (ns): 35
Current Dead Time (ns): 35
Torch Z position (mm): 0.00

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD	Mode
	Be	9.0	11238.9	11238.886	123.754	1.1	Standard
	In	114.9	87917.3	87917.349	1308.358	1.5	Standard
	U	238.1	117603.0	117603.006	1441.612	1.2	Standard
⌈	CeO	155.9	3474.1	0.026	0.000	1.2	Standard
| >	Ce	139.9	133462.4	133462.365	1929.606	1.4	Standard
⌊	Ce++	70.0	2028.1	0.015	0.001	7.5	Standard
	Bkgd	220.0	0.5	0.467	0.217	46.6	Standard

Current Conditions File Data

Current Value	Description
0.92	Nebulizer Gas Flow STD/KED [NEB]
1.20	Auxiliary Gas Flow
17.50	Plasma Gas Flow
-10.75	Deflector Voltage
1600.00	ICP RF Power
-1600.00	Analog Stage Voltage
1000.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset STD [QRO]
-10.00	Cell Rod Offset STD [CRO]
14.00	Discriminator Threshold
-5.00	Cell Entrance/Exit Voltage STD
0.00	RPa
0.45	RPq
0.92	DRC Mode NEB
-7.50	DRC Mode QRO
-2.00	DRC Mode CRO
-5.00	DRC Mode Cell Entrance/Exit Voltage
0.60	Cell Gas A
0.00	Cell Gas B
200.00	Axial Field Voltage
-11.00	KED Mode CRO
-12.00	KED Mode QRO
-11.00	KED Mode Cell Entrance Voltage
-33.00	KED Mode Cell Exit Voltage
0.00	KED Cell Gas A
3.00	KED Cell Gas B
0.00	KED RPa
0.25	KED RPq
125.00	KED Mode Axial Field Voltage

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDailyUCT.swz

Start Time: 5/3/2023 11:59:48 AM
End Time: 5/3/2023 12:13:06 PM

STD Performance Check - [Passed] Optimum value(s): N/A
Obtained Intensity (Be 9): 9556.60
Obtained Intensity (In 115): 80179.07
Obtained Intensity (U 238): 99321.81
Obtained Intensity (Bkgd 220): 0.87
Obtained Formula (Ce++ 70 / Ce 140): 0.014 (=1538.15 / 110319.38)
Obtained Formula (CeO 156 / Ce 140): 0.022 (=2396.60 / 110319.38)
Obtained RSD (Be 9): 0.0064
Obtained RSD (In 115): 0.0027
Obtained RSD (U 238): 0.0158

Torch Alignment - [Passed]

Vertical	Horizontal	Intensity
0.84 mm	1.23 mm	91731.57

Nebulizer Gas Flow STD/KED [NEB] - [Passed] Optimum value(s): 0.92
Obtained Intensity (In 115): 101819.56
Obtained Formula (CeO 156 / Ce 140): 0.0250 (=3203.36 / 128153.25)

Mass Calibration and Resolution - [Passed] Optimum value(s): N/A
Target/Obtained mass (7.016/7.025), Target/Obtained resolution (0.7/0.684)
Target/Obtained mass (23.985/23.975), Target/Obtained resolution (0.7/0.713)
Target/Obtained mass (114.904/114.925), Target/Obtained resolution (0.7/0.698)
Target/Obtained mass (238.05/238.025), Target/Obtained resolution (0.7/0.694)

QID STD/DRC - Optimum value(s): Correlation Coefficient = 1.000; Intercept = -13.67

KED Mode QID - Optimum value(s): Correlation Coefficient = 0.991; Intercept = -14.55

STD Performance Check - [Failed]
Obtained Intensity (Be 9): 11238.89
Obtained Intensity (In 115): 87917.35
Obtained Intensity (U 238): 117603.01
Obtained Intensity (Bkgd 220): 0.47
Obtained Formula (Ce++ 70 / Ce 140): 0.015 (=2028.08 / 133462.36)
Obtained Formula (CeO 156 / Ce 140): 0.026 (=3474.09 / 133462.36) - <Target not achieved>
Obtained RSD (Be 9): 0.0110
Obtained RSD (In 115): 0.0149
Obtained RSD (U 238): 0.0123

SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDailyUCT.swz

Optimization Status

Start Time: 5/3/2023 11:59:48 AM

STD Performance Check
	Optimization Settings:
		Method: STD Performance Check.mth.
		Intensity Criterion: Be 9 > 2000
		Intensity Criterion: In 115 > 40000
		Intensity Criterion: U 238 > 30000
		Intensity Criterion: Bkgd 220 <= 5
		Formula Criterion: Ce++ 70 / Ce 140 <= 0.03
		Formula Criterion: CeO 156 / Ce 140 <= 0.025
		RSD Criterion: Be 9.0122 < 0.05
		RSD Criterion: In 114.904 < 0.05
		RSD Criterion: U 238.05 < 0.05

	Optimization Results:
	Initial Try
		Obtained Intensity (Be 9): 9556.60
		Obtained Intensity (In 115): 80179.07
		Obtained Intensity (U 238): 99321.81
		Obtained Intensity (Bkgd 220): 0.87
		Obtained Formula (Ce++ 70 / Ce 140): 0.014 (=1538.15 / 110319.38)
		Obtained Formula (CeO 156 / Ce 140): 0.022 (=2396.60 / 110319.38)
		Obtained RSD (Be 9): 0.0064
		Obtained RSD (In 115): 0.0027
		Obtained RSD (U 238): 0.0158

[Passed] Optimum value(s): N/A

Torch Alignment
	Optimization Settings:
		Method: Torch Alignment.mth.
		Intensity Criterion: In 115 Maximum

	Optimization Results:
		Vertical	Horizontal	Intensity
[Passed]	0.84 mm	1.23 mm	91731.57

Nebulizer Gas Flow STD/KED [NEB]
	Optimization Settings:
		Method: Optimize.mth.
			Initial Try - Start/End/Step: 0.89/0.96/0.01.
		Intensity Criterion: In 115 Maximum
		Formula Criterion: CeO 156 / Ce 140 <= 0.025

	Optimization Results:
	Initial Try

		Obtained Intensity (In 115): 101819.56
		Obtained Formula (CeO 156 / Ce 140): 0.0250 (=3203.36 / 128153.25)
[Passed] Optimum value(s): 0.92

Mass Calibration and Resolution
Optimization Settings:
Method: Tuning.mth.
MassCal File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Iterations: 6
Target accuracy (+/- amu): 0.05 for Mass Cal. and 0.03 for Resolution
Peak height (%) for Res. Opt.: 10

Optimization Results:
Initial Try
Target/Obtained mass (7.016/7.025), Target/Obtained resolution (0.7/0.684)
Target/Obtained mass (23.985/23.975), Target/Obtained resolution (0.7/0.713)
Target/Obtained mass (114.904/114.925), Target/Obtained resolution (0.7/0.698)
Target/Obtained mass (238.05/238.025), Target/Obtained resolution (0.7/0.694)
[Passed] Optimum value(s): N/A

QID STD/DRC
Optimization Settings:
Method: QID Calibration.mth.
Initial Try - Start/End/Step: -20/0/0.5.

Optimization Results:
Initial Try

Optimum value(s): Correlation Coefficient = 1.000; Intercept = -13.67

Analyte	Mass	Points	DAC	MaxIntensity
Li	7	41	-14	54351.2
Mg	24	41	-14.5	68427.5
In	115	41	-13	102905
Ce	140	41	-12	136174
Pb	208	41	-10.5	71775.9
U	238	41	-11	111949

KED Mode QID
Optimization Settings:
Method: QID Calibration.mth.
Initial Try - Start/End/Step: -20/0/0.5.

Optimization Results:
Initial Try

Optimum value(s): Correlation Coefficient = 0.991; Intercept = -14.55

Analyte	Mass	Points	DAC	MaxIntensity
Li	7	41	-14.5	34798.3
Mg	24	41	-14	73130.7
In	115	41	-12	140399
Ce	140	41	-11	135576
Pb	208	41	-10.5	63243.7
U	238	41	-10	137046

STD Performance Check
Optimization Settings:
Method: STD Performance Check.mth.
Intensity Criterion: Be 9 > 2000
Intensity Criterion: In 115 > 40000

```
            Intensity Criterion: U 238 > 30000
            Intensity Criterion: Bkgd 220 <= 5
            Formula Criterion: Ce++ 70 / Ce 140 <= 0.03
            Formula Criterion: CeO 156 / Ce 140 <= 0.025
            RSD Criterion: Be 9.0122 < 0.05
            RSD Criterion: In 114.904 < 0.05
            RSD Criterion: U 238.05 < 0.05

        Optimization Results:
        Initial Try
                Obtained Intensity (Be 9): 11238.89
                Obtained Intensity (In 115): 87917.35
                Obtained Intensity (U 238): 117603.01
                Obtained Intensity (Bkgd 220): 0.47
                Obtained Formula (Ce++ 70 / Ce 140): 0.015 (=2028.08 / 133462.36)
                Obtained Formula (CeO 156 / Ce 140): 0.026 (=3474.09 / 133462.36) - <Target not achieved>
                Obtained RSD (Be 9): 0.0110
                Obtained RSD (In 115): 0.0149
                Obtained RSD (U 238): 0.0123

                [Failed]
[Failed]

End Time: 5/3/2023 12:13:06 PM
```

Performance Check Report

Sample ID: STD Performance Check
Sample Date/Time: Wednesday, May 03, 2023 12:13:23
Sample Description:
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\STD Performance Check.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Default\STD Performance Check.110
MassCal File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Conditions File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Dual Detector Mode: Pulse
Acq. Dead Time (ns): 35
Current Dead Time (ns): 35
Torch Z position (mm): 0.00

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD	Mode
	Be	9.0	11035.7	11035.728	140.270	1.3	Standard
	In	114.9	84744.7	84744.698	780.378	0.9	Standard
	U	238.1	116059.0	116059.004	1614.969	1.4	Standard
⌈	CeO	155.9	3246.6	0.025	0.000	1.5	Standard
| >	Ce	139.9	132043.6	132043.573	413.615	0.3	Standard
⌊	Ce++	70.0	1899.5	0.014	0.000	3.3	Standard
	Bkgd	220.0	4.1	4.133	4.766	115.3	Standard

Current Conditions File Data

Current Value	Description
0.92	Nebulizer Gas Flow STD/KED [NEB]
1.20	Auxiliary Gas Flow
17.50	Plasma Gas Flow
-10.75	Deflector Voltage
1600.00	ICP RF Power
-1600.00	Analog Stage Voltage
1000.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset STD [QRO]
-10.00	Cell Rod Offset STD [CRO]
14.00	Discriminator Threshold
-5.00	Cell Entrance/Exit Voltage STD
0.00	RPa
0.45	RPq
0.92	DRC Mode NEB
-7.50	DRC Mode QRO
-2.00	DRC Mode CRO
-5.00	DRC Mode Cell Entrance/Exit Voltage
0.60	Cell Gas A
0.00	Cell Gas B
200.00	Axial Field Voltage
-11.00	KED Mode CRO
-12.00	KED Mode QRO
-11.00	KED Mode Cell Entrance Voltage
-33.00	KED Mode Cell Exit Voltage
0.00	KED Cell Gas A
3.00	KED Cell Gas B
0.00	KED RPa
0.25	KED RPq
125.00	KED Mode Axial Field Voltage

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDailyUCT.swz

Start Time: 5/3/2023 12:13:23 PM
End Time: 5/3/2023 12:15:28 PM

STD Performance Check - [Passed] Optimum value(s): N/A
Obtained Intensity (Be 9): 11035.73
Obtained Intensity (In 115): 84744.70
Obtained Intensity (U 238): 116059.00
Obtained Intensity (Bkgd 220): 4.13
Obtained Formula (Ce++ 70 / Ce 140): 0.014 (=1899.46 / 132043.57)
Obtained Formula (CeO 156 / Ce 140): 0.025 (=3246.57 / 132043.57)
Obtained RSD (Be 9): 0.0127
Obtained RSD (In 115): 0.0092
Obtained RSD (U 238): 0.0139

SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDailyUCT.swz

Optimization Status

Start Time: 5/3/2023 12:13:23 PM

STD Performance Check

Optimization Settings:

Method: STD Performance Check.mth.
Intensity Criterion: Be 9 > 2000
Intensity Criterion: In 115 > 40000
Intensity Criterion: U 238 > 30000
Intensity Criterion: Bkgd 220 <= 5
Formula Criterion: Ce++ 70 / Ce 140 <= 0.03
Formula Criterion: CeO 156 / Ce 140 <= 0.025
RSD Criterion: Be 9.0122 < 0.05
RSD Criterion: In 114.904 < 0.05
RSD Criterion: U 238.05 < 0.05

Optimization Results:

Initial Try

Obtained Intensity (Be 9): 11035.73
Obtained Intensity (In 115): 84744.70
Obtained Intensity (U 238): 116059.00
Obtained Intensity (Bkgd 220): 4.13
Obtained Formula (Ce++ 70 / Ce 140): 0.014 (=1899.46 / 132043.57)
Obtained Formula (CeO 156 / Ce 140): 0.025 (=3246.57 / 132043.57)
Obtained RSD (Be 9): 0.0127
Obtained RSD (In 115): 0.0092
Obtained RSD (U 238): 0.0139

[Passed] Optimum value(s): N/A

End Time: 5/3/2023 12:15:28 PM

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Wednesday, May 03, 2023 13:09:40
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				39788	1	Standard
	Cl	**37**		ug/L				6873296	3	Standard
⌈>	**Sc**	**45**		ug/L				178539	1	Standard
|	**Cr**	**52**		ug/L				16213	2	Standard
|	**Cr**	**53**		ug/L				164	1	Standard
⌊	**Mn**	**55**		ug/L				869	6	Standard
⌈>	**Ge**	**72**		ug/L				47637	0	KED
|	**Ni**	**60**		ug/L				39	15	KED
|	**Ni**	**62**		ug/L				7	25	KED
|	**Cu**	**63**		ug/L				24	12	KED
|	**Cu**	**65**		ug/L				15	54	KED
|	**Zn**	**66**		ug/L				13	28	KED
|	**Zn**	**67**		ug/L				6	17	KED
|	**As**	**75**		ug/L				4	32	KED
⌊	**Se**	**78**		ug/L				14	24	KED
	Y	**89**		ug/L				68071	3	Standard
	Kr	**83**		ug/L				96	16	Standard
⌈>	**In-1**	**115**		ug/L				11191	2	KED
|	**Cd**	**111**		ug/L				4	58	KED
⌊	**Cd**	**114**		ug/L				3	50	KED
⌈>	**In**	**115**		ug/L				470953	3	Standard
|	**Ag**	**107**		ug/L				74	14	Standard
|	**Sb**	**121**		ug/L				98	4	Standard
|	**Sb**	**123**		ug/L				80	11	Standard
|	**Ba**	**135**		ug/L				34	45	Standard
⌊	**Ba**	**137**		ug/L				61	4	Standard
⌈>	**Tb**	**159**		ug/L				210560	1	Standard
|	**Tl**	**205**		ug/L				57	14	Standard
⌊	**Pb**	**208**		ug/L				122	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 13:20:09

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				38817	0	Standard
>	**Sc**	**45**		ug/L				173791	1	Standard
	Cr	**52**		ug/L				15970	0	Standard
	Cr	**53**		ug/L				156	9	Standard
	Mn	**55**		ug/L				819	2	Standard
>	**Ge**	**72**		ug/L				47441	1	KED
	Ni	**60**		ug/L				50	23	KED
	Ni	**62**		ug/L				12	55	KED
	Cu	**63**		ug/L				33	20	KED
	Cu	**65**		ug/L				24	38	KED
	Zn	**66**		ug/L				35	8	KED
	Zn	**67**		ug/L				3	50	KED
	As	**75**		ug/L				4	50	KED
	Se	**78**		ug/L				13	11	KED
	Kr	**83**		ug/L				95	6	Standard
>	**In-1**	**115**		ug/L				11052	0	KED
	Cd	**111**		ug/L				4	20	KED
	Cd	**114**		ug/L				4	24	KED
>	**In**	**115**		ug/L				444563	3	Standard
	Ag	**107**		ug/L				48	2	Standard
	Sb	**121**		ug/L				90	4	Standard
	Sb	**123**		ug/L				62	16	Standard
	Ba	**135**		ug/L				19	20	Standard
	Ba	**137**		ug/L				51	25	Standard
>	**Tb**	**159**		ug/L				211745	0	Standard
	Tl	**205**		ug/L				45	26	Standard
	Pb	**208**		ug/L				102	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL2
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Wednesday, May 03, 2023 13:24:58
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			38817	43388	1	Standard
>	Sc	45		ug/L			173791	170550	5	Standard
	Cr	52	0.500	ug/L	0.062	12	15970	27133	2	Standard
	Cr	53	0.500	ug/L	0.034	6	156	1394	1	Standard
	Mn	55	0.500	ug/L	0.026	5	819	17740	0	Standard
>	Ge	72		ug/L			47441	47625	0	KED
	Ni	60	0.500	ug/L	0.011	2	50	938	1	KED
	Ni	62	0.500	ug/L	0.064	12	12	155	12	KED
	Cu	63	0.500	ug/L	0.019	3	33	2590	3	KED
	Cu	65	0.500	ug/L	0.015	3	24	1348	2	KED
	Zn	66	6.000	ug/L	0.031	0	35	4144	0	KED
	Zn	67	6.000	ug/L	0.088	1	3	622	2	KED
	As	75	0.200	ug/L	0.005	2	4	70	1	KED
	Se	78	0.500	ug/L	0.078	15	13	29	8	KED
	Kr	83		ug/L			95	92	4	Standard
>	In-1	115		ug/L			11052	10814	1	KED
	Cd	111	0.100	ug/L	0.022	21	4	33	17	KED
	Cd	114	0.100	ug/L	0.004	4	4	77	5	KED
>	In	115		ug/L			444563	439344	9	Standard
	Ag	107	0.200	ug/L	0.014	7	48	3091	3	Standard
	Sb	121	0.200	ug/L	0.023	11	90	2593	4	Standard
	Sb	123	0.200	ug/L	0.020	9	62	1955	2	Standard
	Ba	135	0.500	ug/L	0.037	7	19	2765	2	Standard
	Ba	137	0.500	ug/L	0.049	9	51	5271	1	Standard
>	Tb	159		ug/L			211745	206137	6	Standard
	Tl	205	0.200	ug/L	0.005	2	45	13401	4	Standard
	Pb	208	0.100	ug/L	0.006	6	102	8798	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 13:32:40
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				38903	1	Standard
⎡>	**Sc**	**45**		ug/L				171713	3	Standard
⎢	**Cr**	**52**		ug/L				15772	1	Standard
⎢	**Cr**	**53**		ug/L				143	12	Standard
⎣	**Mn**	**55**		ug/L				813	6	Standard
⎡>	**Ge**	**72**		ug/L				47075	0	KED
⎢	**Ni**	**60**		ug/L				40	53	KED
⎢	**Ni**	**62**		ug/L				13	24	KED
⎢	**Cu**	**63**		ug/L				18	15	KED
⎢	**Cu**	**65**		ug/L				10	26	KED
⎢	**Zn**	**66**		ug/L				20	27	KED
⎢	**Zn**	**67**		ug/L				3	69	KED
⎢	**As**	**75**		ug/L				3	62	KED
⎣	**Se**	**78**		ug/L				9	7	KED
	Kr	**83**		ug/L				86	6	Standard
⎡>	**In-1**	**115**		ug/L				10479	3	KED
⎢	**Cd**	**111**		ug/L				3	15	KED
⎣	**Cd**	**114**		ug/L				3	32	KED
⎡>	**In**	**115**		ug/L				438538	1	Standard
⎢	**Ag**	**107**		ug/L				33	27	Standard
⎢	**Sb**	**121**		ug/L				52	4	Standard
⎢	**Sb**	**123**		ug/L				41	23	Standard
⎢	**Ba**	**135**		ug/L				24	35	Standard
⎣	**Ba**	**137**		ug/L				46	22	Standard
⎡>	**Tb**	**159**		ug/L				208808	0	Standard
⎢	**Tl**	**205**		ug/L				41	19	Standard
⎣	**Pb**	**208**		ug/L				106	21	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL2
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 13:37:29
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38903	43149	1	Standard
⌈>	**Sc**	**45**		ug/L			171713	176753	1	Standard
|	**Cr**	**52**	**0.500**	ug/L	0.006	1	15772	27564	1	Standard
|	**Cr**	**53**	**0.500**	ug/L	0.017	3	143	1449	4	Standard
⌊	**Mn**	**55**	**0.500**	ug/L	0.007	1	813	17644	1	Standard
⌈>	**Ge**	**72**		ug/L			47075	45758	0	KED
|	**Ni**	**60**	**0.500**	ug/L	0.010	1	40	905	1	KED
|	**Ni**	**62**	**0.500**	ug/L	0.045	9	13	144	8	KED
|	**Cu**	**63**	**0.500**	ug/L	0.024	4	18	2579	4	KED
|	**Cu**	**65**	**0.500**	ug/L	0.020	3	10	1320	4	KED
|	**Zn**	**66**	**6.000**	ug/L	0.101	1	20	4192	1	KED
|	**Zn**	**67**	**6.000**	ug/L	0.355	5	3	623	5	KED
|	**As**	**75**	**0.200**	ug/L	0.009	4	3	78	3	KED
⌊	**Se**	**78**	**0.500**	ug/L	0.125	25	9	28	16	KED
	Kr	**83**		ug/L			86	77	15	Standard
⌈>	**In-1**	**115**		ug/L			10479	10403	2	KED
|	**Cd**	**111**	**0.100**	ug/L	0.007	6	3	38	5	KED
⌊	**Cd**	**114**	**0.100**	ug/L	0.006	6	3	97	6	KED
⌈>	**In**	**115**		ug/L			438538	452712	3	Standard
|	**Ag**	**107**	**0.200**	ug/L	0.003	1	33	3087	1	Standard
|	**Sb**	**121**	**0.200**	ug/L	0.006	2	52	2553	3	Standard
|	**Sb**	**123**	**0.200**	ug/L	0.011	5	41	2006	2	Standard
|	**Ba**	**135**	**0.500**	ug/L	0.026	5	24	2877	1	Standard
⌊	**Ba**	**137**	**0.500**	ug/L	0.004	0	46	5456	2	Standard
⌈>	**Tb**	**159**		ug/L			208808	213977	0	Standard
|	**Tl**	**205**	**0.200**	ug/L	0.004	2	41	13389	2	Standard
⌊	**Pb**	**208**	**0.100**	ug/L	0.001	0	106	9055	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL3
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 13:42:19
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38903	61860	1	Standard
⌈>	**Sc**	**45**		ug/L			171713	177129	1	Standard
|	**Cr**	**52**	**10.000**	ug/L	0.102	1	15772	247220	0	Standard
|	**Cr**	**53**	**10.000**	ug/L	0.112	1	143	26495	1	Standard
⌊	**Mn**	**55**	**10.001**	ug/L	0.106	1	813	348034	1	Standard
⌈>	**Ge**	**72**		ug/L			47075	47348	1	KED
|	**Ni**	**60**	**10.000**	ug/L	0.135	1	40	17917	1	KED
|	**Ni**	**62**	**10.001**	ug/L	0.225	2	13	2882	3	KED
|	**Cu**	**63**	**9.999**	ug/L	0.070	0	18	50048	1	KED
|	**Cu**	**65**	**9.998**	ug/L	0.413	4	10	25228	2	KED
|	**Zn**	**66**	**9.821**	ug/L	0.205	2	20	6752	1	KED
|	**Zn**	**67**	**10.084**	ug/L	0.667	6	3	1107	5	KED
|	**As**	**75**	**9.999**	ug/L	0.173	1	3	3396	2	KED
⌊	**Se**	**78**	**9.996**	ug/L	0.603	6	9	345	7	KED
	Kr	**83**		ug/L			86	96	21	Standard
⌈>	**In-1**	**115**		ug/L			10479	10518	1	KED
|	**Cd**	**111**	**10.000**	ug/L	0.190	1	3	3397	1	KED
⌊	**Cd**	**114**	**10.000**	ug/L	0.162	1	3	8631	2	KED
⌈>	**In**	**115**		ug/L			438538	473033	1	Standard
|	**Ag**	**107**	**10.000**	ug/L	0.161	1	33	154715	1	Standard
|	**Sb**	**121**	**10.000**	ug/L	0.076	0	52	130271	0	Standard
|	**Sb**	**123**	**10.000**	ug/L	0.182	1	41	100191	0	Standard
|	**Ba**	**135**	**9.998**	ug/L	0.220	2	24	56118	2	Standard
⌊	**Ba**	**137**	**9.999**	ug/L	0.112	1	46	107665	1	Standard
⌈>	**Tb**	**159**		ug/L			208808	214909	0	Standard
|	**Tl**	**205**	**10.000**	ug/L	0.165	1	41	673327	1	Standard
⌊	**Pb**	**208**	**10.000**	ug/L	0.112	1	106	850469	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL4
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 13:47:22
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38903	59832	0	Standard
⌈>	**Sc**	**45**		ug/L			171713	177473	1	Standard
|	**Cr**	**52**	**19.914**	ug/L	0.471	2	15772	469330	1	Standard
|	**Cr**	**53**	**19.941**	ug/L	0.438	2	143	52177	1	Standard
⌊	**Mn**	**55**	**19.868**	ug/L	0.421	2	813	674229	1	Standard
⌈>	**Ge**	**72**		ug/L			47075	47081	0	KED
|	**Ni**	**60**	**19.858**	ug/L	0.338	1	40	34372	2	KED
|	**Ni**	**62**	**19.956**	ug/L	0.332	1	13	5655	2	KED
|	**Cu**	**63**	**19.886**	ug/L	0.208	1	18	96769	1	KED
|	**Cu**	**65**	**19.857**	ug/L	0.111	0	10	48459	0	KED
|	**Zn**	**66**	**19.955**	ug/L	0.223	1	20	13535	1	KED
|	**Zn**	**67**	**20.067**	ug/L	0.638	3	3	2210	3	KED
|	**As**	**75**	**20.000**	ug/L	0.359	1	3	6751	1	KED
⌊	**Se**	**78**	**19.845**	ug/L	0.495	2	9	651	1	KED
	Kr	**83**		ug/L			86	77	7	Standard
⌈>	**In-1**	**115**		ug/L			10479	10500	0	KED
|	**Cd**	**111**	**19.923**	ug/L	0.685	3	3	6650	3	KED
⌊	**Cd**	**114**	**19.888**	ug/L	0.502	2	3	16753	1	KED
⌈>	**In**	**115**		ug/L			438538	455600	0	Standard
|	**Ag**	**107**	**20.033**	ug/L	0.190	0	33	300511	0	Standard
|	**Sb**	**121**	**20.029**	ug/L	0.297	1	52	252724	1	Standard
|	**Sb**	**123**	**20.108**	ug/L	0.179	0	41	198332	1	Standard
|	**Ba**	**135**	**20.146**	ug/L	0.297	1	24	112168	2	Standard
⌊	**Ba**	**137**	**20.084**	ug/L	0.110	0	46	211794	1	Standard
⌈>	**Tb**	**159**		ug/L			208808	217600	0	Standard
|	**Tl**	**205**	**19.822**	ug/L	0.090	0	41	1305077	0	Standard
⌊	**Pb**	**208**	**19.914**	ug/L	0.109	0	106	1685666	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL5
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 13:52:35
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38903	39623	1	Standard
⌈>	**Sc**	**45**		ug/L			171713	175439	3	Standard
|	**Cr**	**52**	**49.713**	ug/L	1.291	2	15772	1102382	1	Standard
|	**Cr**	**53**	**49.674**	ug/L	0.864	1	143	124194	1	Standard
⌊	**Mn**	**55**	**49.686**	ug/L	1.387	2	813	1613992	1	Standard
⌈>	**Ge**	**72**		ug/L			47075	45439	1	KED
|	**Ni**	**60**	**49.775**	ug/L	1.441	2	40	81233	1	KED
|	**Ni**	**62**	**49.587**	ug/L	0.895	1	13	13005	1	KED
|	**Cu**	**63**	**49.880**	ug/L	0.266	0	18	231431	0	KED
|	**Cu**	**65**	**49.894**	ug/L	0.642	1	10	116258	1	KED
|	**Zn**	**66**	**49.760**	ug/L	0.279	0	20	31829	1	KED
|	**Zn**	**67**	**49.890**	ug/L	2.206	4	3	5244	3	KED
|	**As**	**75**	**49.888**	ug/L	0.806	1	3	16068	1	KED
⌊	**Se**	**78**	**50.055**	ug/L	0.694	1	9	1581	2	KED
	Kr	**83**		ug/L			86	88	10	Standard
⌈>	**In-1**	**115**		ug/L			10479	10213	1	KED
|	**Cd**	**111**	**49.705**	ug/L	0.771	1	3	15669	0	KED
⌊	**Cd**	**114**	**49.735**	ug/L	0.353	0	3	39701	1	KED
⌈>	**In**	**115**		ug/L			438538	453847	2	Standard
|	**Ag**	**107**	**49.738**	ug/L	0.565	1	33	724200	2	Standard
|	**Sb**	**121**	**49.893**	ug/L	0.532	1	52	620295	1	Standard
|	**Sb**	**123**	**49.718**	ug/L	0.725	1	41	474933	2	Standard
|	**Ba**	**135**	**49.691**	ug/L	0.802	1	24	267239	1	Standard
⌊	**Ba**	**137**	**49.750**	ug/L	1.529	3	46	509639	2	Standard
⌈>	**Tb**	**159**		ug/L			208808	213539	0	Standard
|	**Tl**	**205**	**50.110**	ug/L	0.841	1	41	3273481	1	Standard
⌊	**Pb**	**208**	**49.933**	ug/L	0.025	0	106	4120177	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL6
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 13:59:28
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38903	54280	0	Standard
⌈>	**Sc**	**45**		ug/L			171713	169722	1	Standard
|	**Cr**	**52**	**100.628**	ug/L	1.004	0	15772	2189234	0	Standard
|	**Cr**	**53**	**100.338**	ug/L	0.481	0	143	245402	1	Standard
⌊	**Mn**	**55**	**100.434**	ug/L	0.522	0	813	3203473	1	Standard
⌈>	**Ge**	**72**		ug/L			47075	44560	2	KED
|	**Ni**	**60**	**100.025**	ug/L	2.198	2	40	160177	1	KED
|	**Ni**	**62**	**100.261**	ug/L	0.508	0	13	26003	2	KED
|	**Cu**	**63**	**99.585**	ug/L	0.495	0	18	446913	1	KED
|	**Cu**	**65**	**99.746**	ug/L	1.490	1	10	225961	1	KED
|	**Zn**	**66**	**99.510**	ug/L	1.498	1	20	61400	1	KED
|	**Zn**	**67**	**99.708**	ug/L	1.711	1	3	10179	0	KED
|	**As**	**75**	**100.141**	ug/L	2.138	2	3	31769	0	KED
⌊	**Se**	**78**	**100.047**	ug/L	3.025	3	9	3094	0	KED
	Kr	**83**		ug/L			86	127	11	Standard
⌈>	**In-1**	**115**		ug/L			10479	10081	1	KED
|	**Cd**	**111**	**100.058**	ug/L	1.602	1	3	31191	0	KED
⌊	**Cd**	**114**	**99.992**	ug/L	1.883	1	3	78754	1	KED
⌈>	**In**	**115**		ug/L			438538	437166	2	Standard
|	**Ag**	**107**	**99.473**	ug/L	1.284	1	33	1370831	1	Standard
|	**Sb**	**121**	**100.062**	ug/L	3.683	3	52	1200265	1	Standard
|	**Sb**	**123**	**99.842**	ug/L	2.503	2	41	913599	1	Standard
|	**Ba**	**135**	**100.131**	ug/L	1.304	1	24	521036	2	Standard
⌊	**Ba**	**137**	**100.210**	ug/L	4.040	4	46	995535	2	Standard
⌈>	**Tb**	**159**		ug/L			208808	209037	1	Standard
|	**Tl**	**205**	**99.215**	ug/L	1.583	1	41	6182773	1	Standard
⌊	**Pb**	**208**	**99.485**	ug/L	2.424	2	106	7899283	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 14:07:02
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38903	39428	0	Standard
⌈>	**Sc**	**45**		ug/L			171713	172118	3	Standard
|	**Cr**	**52**	**0.021**	ug/L	0.030	144	15772	16251	2	Standard
|	**Cr**	**53**	**-0.002**	ug/L	0.001	38	143	140	3	Standard
⌊	**Mn**	**55**	**-0.000**	ug/L	0.001	3014	813	814	6	Standard
⌈>	**Ge**	**72**		ug/L			47075	47164	0	KED
|	**Ni**	**60**	**0.001**	ug/L	0.002	222	40	42	9	KED
|	**Ni**	**62**	**-0.007**	ug/L	0.014	198	13	11	33	KED
|	**Cu**	**63**	**0.002**	ug/L	0.001	68	18	26	21	KED
|	**Cu**	**65**	**0.003**	ug/L	0.003	105	10	18	43	KED
|	**Zn**	**66**	**0.009**	ug/L	0.008	86	20	26	18	KED
|	**Zn**	**67**	**0.041**	ug/L	0.000	0	3	7	0	KED
|	**As**	**75**	**0.012**	ug/L	0.007	57	3	7	31	KED
⌊	**Se**	**78**	**0.098**	ug/L	0.067	68	9	12	16	KED
	Kr	**83**		ug/L			86	88	2	Standard
⌈>	**In-1**	**115**		ug/L			10479	10757	0	KED
|	**Cd**	**111**	**0.010**	ug/L	0.003	32	3	6	15	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.004	243	3	4	67	KED
⌈>	**In**	**115**		ug/L			438538	442724	2	Standard
|	**Ag**	**107**	**0.004**	ug/L	0.001	16	33	92	11	Standard
|	**Sb**	**121**	**0.061**	ug/L	0.002	3	52	789	2	Standard
|	**Sb**	**123**	**0.064**	ug/L	0.004	6	41	633	4	Standard
|	**Ba**	**135**	**0.002**	ug/L	0.002	77	24	37	25	Standard
⌊	**Ba**	**137**	**0.001**	ug/L	0.001	93	46	60	20	Standard
⌈>	**Tb**	**159**		ug/L			208808	208422	0	Standard
|	**Tl**	**205**	**0.007**	ug/L	0.001	8	41	473	7	Standard
⌊	**Pb**	**208**	**0.002**	ug/L	0.001	78	106	240	44	Standard

Sample Information

Sample Date/Time: Wednesday, May 03, 2023 13:59:28
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.m
Mass Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Conditions File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323.cal

Calibration

Analyte	Mass	**r Corr Coef**	Slope	Std 1 Conc	Std 2 Conc	Std 3 Conc	Std 4 Conc	Std 5 Conc
C	13							
Sc	45							
Cr	52	**0.9999**	0.127	0.50	10	20	50	100
Cr	53	**1.0000**	0.014	0.50	10	20	50	100
Mn	55	**0.9999**	0.188	0.50	10	20	50	100
Ge	72							
Ni	60	**1.0000**	0.036	0.50	10	20	50	100
Ni	62	**0.9999**	0.006	0.50	10	20	50	100
Cu	63	**1.0000**	0.101	0.50	10	20	50	100
Cu	65	**1.0000**	0.051	0.50	10	20	50	100
Zn	66	**0.9999**	0.014	6.00	10	20	50	100
Zn	67	**1.0000**	0.002	6.00	10	20	50	100
As	75	**1.0000**	0.007	0.20	10	20	50	100
Se	78	**1.0000**	0.001	0.50	10	20	50	100
Kr	83							
In-1	115							
Cd	111	**1.0000**	0.031	0.10	10	20	50	100
Cd	114	**1.0000**	0.078	0.10	10	20	50	100
In	115							
Ag	107	**0.9999**	0.032	0.20	10	20	50	100
Sb	121	**1.0000**	0.027	0.20	10	20	50	100
Sb	123	**1.0000**	0.021	0.20	10	20	50	100
Ba	135	**1.0000**	0.012	0.50	10	20	50	100
Ba	137	**1.0000**	0.023	0.50	10	20	50	100
Tb	159							
Tl	205	**0.9999**	0.298	0.20	10	20	50	100
Pb	208	**1.0000**	0.380	0.10	10	20	50	100

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-ICV1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 14:14:30
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38903	48829	1	Standard
⌈>	**Sc**	**45**		ug/L			171713	172813	2	Standard
|	**Cr**	**52**	**50.802**	ug/L	1.657	3	15772	1132890	1	Standard
|	**Cr**	**53**	**51.772**	ug/L	0.412	0	143	128983	1	Standard
⌊	**Mn**	**55**	**51.888**	ug/L	1.075	2	813	1685309	2	Standard
⌈>	**Ge**	**72**		ug/L			47075	46357	1	KED
|	**Ni**	**60**	**52.617**	ug/L	1.064	2	40	87681	0	KED
|	**Ni**	**62**	**52.035**	ug/L	1.272	2	13	14047	3	KED
|	**Cu**	**63**	**52.521**	ug/L	1.050	1	18	245176	0	KED
|	**Cu**	**65**	**52.315**	ug/L	1.196	2	10	123292	0	KED
|	**Zn**	**66**	**49.974**	ug/L	0.802	1	20	32092	1	KED
|	**Zn**	**67**	**51.168**	ug/L	2.667	5	3	5434	3	KED
|	**As**	**75**	**48.967**	ug/L	1.080	2	3	16164	0	KED
⌊	**Se**	**78**	**80.218**	ug/L	1.145	1	9	2583	1	KED
	Kr	**83**		ug/L			86	112	14	Standard
⌈>	**In-1**	**115**		ug/L			10479	10509	1	KED
|	**Cd**	**111**	**49.950**	ug/L	0.419	0	3	16234	0	KED
⌊	**Cd**	**114**	**51.308**	ug/L	0.631	1	3	42127	0	KED
⌈>	**In**	**115**		ug/L			438538	450906	2	Standard
|	**Ag**	**107**	**52.622**	ug/L	2.749	5	33	747722	3	Standard
|	**Sb**	**121**	**50.685**	ug/L	1.175	2	52	627276	0	Standard
|	**Sb**	**123**	**50.322**	ug/L	1.564	3	41	475061	2	Standard
|	**Ba**	**135**	**51.181**	ug/L	1.948	3	24	274591	1	Standard
⌊	**Ba**	**137**	**51.210**	ug/L	1.601	3	46	524827	1	Standard
⌈>	**Tb**	**159**		ug/L			208808	210186	0	Standard
|	**Tl**	**205**	**52.790**	ug/L	0.880	1	41	3307875	1	Standard
⌊	**Pb**	**208**	**52.018**	ug/L	0.431	0	106	4153632	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-ICB1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 14:22:04
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38903	39252	0	Standard
⌈>	**Sc**	**45**		ug/L			171713	172557	1	Standard
|	**Cr**	**52**	**0.009**	ug/L	0.025	285	15772	16043	4	Standard
|	**Cr**	**53**	**0.004**	ug/L	0.006	147	143	154	10	Standard
⌊	**Mn**	**55**	**0.001**	ug/L	0.005	392	813	859	19	Standard
⌈>	**Ge**	**72**		ug/L			47075	46904	1	KED
|	**Ni**	**60**	**0.002**	ug/L	0.004	181	40	44	15	KED
|	**Ni**	**62**	**-0.028**	ug/L	0.007	26	13	5	33	KED
|	**Cu**	**63**	**0.007**	ug/L	0.002	25	18	50	17	KED
|	**Cu**	**65**	**0.005**	ug/L	0.004	78	10	21	39	KED
|	**Zn**	**66**	**0.005**	ug/L	0.009	179	20	23	24	KED
|	**Zn**	**67**	**0.030**	ug/L	0.027	90	3	6	45	KED
|	**As**	**75**	**0.005**	ug/L	0.002	36	3	4	11	KED
⌊	**Se**	**78**	**0.148**	ug/L	0.121	82	9	14	28	KED
	Kr	**83**		ug/L			86	85	9	Standard
⌈>	**In-1**	**115**		ug/L			10479	10751	0	KED
|	**Cd**	**111**	**0.002**	ug/L	0.004	268	3	4	35	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.007	316	3	4	117	KED
⌈>	**In**	**115**		ug/L			438538	432513	3	Standard
|	**Ag**	**107**	**0.005**	ug/L	0.006	114	33	100	80	Standard
|	**Sb**	**121**	**0.034**	ug/L	0.003	9	52	460	12	Standard
|	**Sb**	**123**	**0.033**	ug/L	0.004	12	41	340	13	Standard
|	**Ba**	**135**	**0.003**	ug/L	0.004	139	24	38	54	Standard
⌊	**Ba**	**137**	**0.002**	ug/L	0.005	181	46	71	66	Standard
⌈>	**Tb**	**159**		ug/L			208808	207594	1	Standard
|	**Tl**	**205**	**0.006**	ug/L	0.005	75	41	415	67	Standard
⌊	**Pb**	**208**	**0.004**	ug/L	0.004	112	106	384	81	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 14:27:10
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38903	41966	0	Standard
⌈>	**Sc**	**45**		ug/L			171713	172191	0	Standard
|	**Cr**	**52**	**49.523**	ug/L	0.368	0	15772	1101234	0	Standard
|	**Cr**	**53**	**50.854**	ug/L	1.097	2	143	126261	2	Standard
⌊	**Mn**	**55**	**50.824**	ug/L	1.067	2	813	1645162	2	Standard
⌈>	**Ge**	**72**		ug/L			47075	46321	2	KED
|	**Ni**	**60**	**49.251**	ug/L	0.563	1	40	82036	2	KED
|	**Ni**	**62**	**49.641**	ug/L	0.279	0	13	13389	1	KED
|	**Cu**	**63**	**49.514**	ug/L	1.337	2	18	230926	0	KED
|	**Cu**	**65**	**50.948**	ug/L	0.568	1	10	119988	0	KED
|	**Zn**	**66**	**50.023**	ug/L	1.120	2	20	32092	0	KED
|	**Zn**	**67**	**49.376**	ug/L	0.628	1	3	5242	0	KED
|	**As**	**75**	**49.169**	ug/L	0.956	1	3	16217	0	KED
⌊	**Se**	**78**	**49.169**	ug/L	0.638	1	9	1585	0	KED
	Kr	**83**		ug/L			86	86	23	Standard
⌈>	**In-1**	**115**		ug/L			10479	10303	0	KED
|	**Cd**	**111**	**49.940**	ug/L	0.814	1	3	15913	0	KED
⌊	**Cd**	**114**	**50.896**	ug/L	0.576	1	3	40973	0	KED
⌈>	**In**	**115**		ug/L			438538	438951	2	Standard
|	**Ag**	**107**	**51.231**	ug/L	1.153	2	33	708958	2	Standard
|	**Sb**	**121**	**50.466**	ug/L	1.503	2	52	607852	0	Standard
|	**Sb**	**123**	**51.241**	ug/L	1.493	2	41	470762	1	Standard
|	**Ba**	**135**	**51.118**	ug/L	1.251	2	24	266997	0	Standard
⌊	**Ba**	**137**	**50.335**	ug/L	1.633	3	46	502138	1	Standard
⌈>	**Tb**	**159**		ug/L			208808	211156	0	Standard
|	**Tl**	**205**	**50.731**	ug/L	0.537	1	41	3193654	1	Standard
⌊	**Pb**	**208**	**50.543**	ug/L	0.363	0	106	4054426	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 14:34:44
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38903	39040	0	Standard
⌈>	**Sc**	**45**		ug/L			171713	173381	2	Standard
|	**Cr**	**52**	**0.014**	ug/L	0.012	84	15772	16231	1	Standard
|	**Cr**	**53**	**-0.002**	ug/L	0.007	352	143	140	13	Standard
⌊	**Mn**	**55**	**-0.001**	ug/L	0.001	102	813	781	7	Standard
⌈>	**Ge**	**72**		ug/L			47075	47051	1	KED
|	**Ni**	**60**	**0.002**	ug/L	0.004	187	40	44	17	KED
|	**Ni**	**62**	**-0.005**	ug/L	0.017	348	13	12	39	KED
|	**Cu**	**63**	**0.006**	ug/L	0.001	15	18	48	9	KED
|	**Cu**	**65**	**0.005**	ug/L	0.001	24	10	23	12	KED
|	**Zn**	**66**	**0.002**	ug/L	0.006	324	20	21	20	KED
|	**Zn**	**67**	**0.006**	ug/L	0.017	297	3	3	50	KED
|	**As**	**75**	**-0.002**	ug/L	0.002	116	3	2	26	KED
⌊	**Se**	**78**	**0.142**	ug/L	0.081	56	9	14	18	KED
	Kr	**83**		ug/L			86	83	6	Standard
⌈>	**In-1**	**115**		ug/L			10479	10666	4	KED
|	**Cd**	**111**	**0.002**	ug/L	0.006	332	3	4	48	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.002	352	3	3	51	KED
⌈>	**In**	**115**		ug/L			438538	444812	1	Standard
|	**Ag**	**107**	**0.002**	ug/L	0.001	40	33	55	15	Standard
|	**Sb**	**121**	**0.052**	ug/L	0.003	5	52	692	6	Standard
|	**Sb**	**123**	**0.059**	ug/L	0.005	8	41	591	6	Standard
|	**Ba**	**135**	**0.001**	ug/L	0.001	151	24	27	14	Standard
⌊	**Ba**	**137**	**0.001**	ug/L	0.000	61	46	53	7	Standard
⌈>	**Tb**	**159**		ug/L			208808	206261	0	Standard
|	**Tl**	**205**	**0.005**	ug/L	0.000	2	41	340	1	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	15	106	187	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CRL1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 14:43:23
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38903	47991	1	Standard
⌈>	**Sc**	**45**		ug/L			171713	174446	2	Standard
|	**Cr**	**52**	**0.541**	ug/L	0.012	2	15772	28044	2	Standard
|	**Cr**	**53**	**0.510**	ug/L	0.022	4	143	1426	1	Standard
⌊	**Mn**	**55**	**0.515**	ug/L	0.012	2	813	17705	3	Standard
⌈>	**Ge**	**72**		ug/L			47075	48109	0	KED
|	**Ni**	**60**	**0.541**	ug/L	0.035	6	40	976	6	KED
|	**Ni**	**62**	**0.546**	ug/L	0.082	15	13	166	13	KED
|	**Cu**	**63**	**0.555**	ug/L	0.033	5	18	2709	5	KED
|	**Cu**	**65**	**0.572**	ug/L	0.006	0	10	1409	1	KED
|	**Zn**	**66**	**6.202**	ug/L	0.166	2	20	4151	2	KED
|	**Zn**	**67**	**5.926**	ug/L	0.280	4	3	656	5	KED
|	**As**	**75**	**0.202**	ug/L	0.010	4	3	72	4	KED
⌊	**Se**	**78**	**0.653**	ug/L	0.116	17	9	31	11	KED
	Kr	**83**		ug/L			86	68	26	Standard
⌈>	**In-1**	**115**		ug/L			10479	10844	1	KED
|	**Cd**	**111**	**0.104**	ug/L	0.018	17	3	38	14	KED
⌊	**Cd**	**114**	**0.104**	ug/L	0.004	4	3	91	5	KED
⌈>	**In**	**115**		ug/L			438538	449035	1	Standard
|	**Ag**	**107**	**0.214**	ug/L	0.010	4	33	3066	5	Standard
|	**Sb**	**121**	**0.226**	ug/L	0.004	1	52	2835	1	Standard
|	**Sb**	**123**	**0.227**	ug/L	0.002	0	41	2178	2	Standard
|	**Ba**	**135**	**0.494**	ug/L	0.009	1	24	2666	1	Standard
⌊	**Ba**	**137**	**0.532**	ug/L	0.018	3	46	5473	2	Standard
⌈>	**Tb**	**159**		ug/L			208808	209480	1	Standard
|	**Tl**	**205**	**0.211**	ug/L	0.006	2	41	13209	2	Standard
⌊	**Pb**	**208**	**0.111**	ug/L	0.005	4	106	8931	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IFA1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 14:51:43
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38903	160132	1	Standard
⌈>	**Sc**	**45**		ug/L			171713	182065	2	Standard
|	**Cr**	**52**	**0.710**	ug/L	0.019	2	15772	33160	1	Standard
|	**Cr**	**53**	**5.495**	ug/L	0.049	0	143	14563	3	Standard
⌊	**Mn**	**55**	**0.134**	ug/L	0.003	1	813	5457	1	Standard
⌈>	**Ge**	**72**		ug/L			47075	43321	1	KED
|	**Ni**	**60**	**0.108**	ug/L	0.020	18	40	204	14	KED
|	**Ni**	**62**	**0.158**	ug/L	0.066	41	13	52	31	KED
|	**Cu**	**63**	**0.045**	ug/L	0.005	12	18	213	11	KED
|	**Cu**	**65**	**0.042**	ug/L	0.004	9	10	101	7	KED
|	**Zn**	**66**	**0.333**	ug/L	0.022	6	20	218	4	KED
|	**Zn**	**67**	**0.310**	ug/L	0.090	29	3	33	25	KED
|	**As**	**75**	**0.030**	ug/L	0.012	40	3	12	31	KED
⌊	**Se**	**78**	**0.080**	ug/L	0.069	86	9	11	17	KED
	Kr	**83**		ug/L			86	154	13	Standard
⌈>	**In-1**	**115**		ug/L			10479	10059	1	KED
|	**Cd**	**111**	**0.087**	ug/L	0.004	4	3	30	5	KED
⌊	**Cd**	**114**	**0.052**	ug/L	0.018	33	3	44	32	KED
⌈>	**In**	**115**		ug/L			438538	476232	2	Standard
|	**Ag**	**107**	**0.009**	ug/L	0.002	17	33	170	15	Standard
|	**Sb**	**121**	**0.040**	ug/L	0.004	9	52	582	6	Standard
|	**Sb**	**123**	**0.041**	ug/L	0.002	3	41	455	3	Standard
|	**Ba**	**135**	**0.110**	ug/L	0.010	8	24	647	6	Standard
⌊	**Ba**	**137**	**0.111**	ug/L	0.007	6	46	1248	3	Standard
⌈>	**Tb**	**159**		ug/L			208808	210696	0	Standard
|	**Tl**	**205**	**0.014**	ug/L	0.001	5	41	920	5	Standard
⌊	**Pb**	**208**	**0.027**	ug/L	0.001	2	106	2244	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IFB1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 14:56:32
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38903	157845	0	Standard
>	**Sc**	**45**		ug/L			171713	181141	2	Standard
	Cr	**52**	**19.441**	ug/L	0.201	1	15772	464895	2	Standard
	Cr	**53**	**24.898**	ug/L	0.495	1	143	65098	2	Standard
	Mn	**55**	**19.479**	ug/L	0.460	2	813	663674	2	Standard
>	**Ge**	**72**		ug/L			47075	40946	0	KED
	Ni	**60**	**20.514**	ug/L	0.117	0	40	30222	0	KED
	Ni	**62**	**20.436**	ug/L	0.237	1	13	4879	1	KED
	Cu	**63**	**20.193**	ug/L	0.200	0	18	83291	1	KED
	Cu	**65**	**20.452**	ug/L	0.376	1	10	42591	2	KED
	Zn	**66**	**19.804**	ug/L	0.348	1	20	11245	1	KED
	Zn	**67**	**17.982**	ug/L	0.216	1	3	1689	1	KED
	As	**75**	**19.801**	ug/L	0.096	0	3	5776	0	KED
	Se	**78**	**0.148**	ug/L	0.038	25	9	12	8	KED
	Kr	**83**		ug/L			86	145	12	Standard
>	**In-1**	**115**		ug/L			10479	9287	0	KED
	Cd	**111**	**19.309**	ug/L	0.323	1	3	5549	1	KED
	Cd	**114**	**19.345**	ug/L	0.400	2	3	14040	1	KED
>	**In**	**115**		ug/L			438538	479404	1	Standard
	Ag	**107**	**17.405**	ug/L	0.117	0	33	263096	1	Standard
	Sb	**121**	**0.034**	ug/L	0.002	4	52	498	5	Standard
	Sb	**123**	**0.036**	ug/L	0.001	4	41	403	4	Standard
	Ba	**135**	**0.106**	ug/L	0.004	3	24	629	2	Standard
	Ba	**137**	**0.105**	ug/L	0.004	4	46	1192	2	Standard
>	**Tb**	**159**		ug/L			208808	207732	0	Standard
	Tl	**205**	**0.008**	ug/L	0.001	10	41	551	8	Standard
	Pb	**208**	**0.021**	ug/L	0.001	2	106	1778	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-HCV1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 15:01:22
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38903	43954	2	Standard
>	**Sc**	**45**		ug/L			171713	168201	2	Standard
	Cr	**52**	**198.460**	ug/L	1.581	0	15772	4263947	1	Standard
	Cr	**53**	**194.479**	ug/L	4.512	2	143	471125	1	Standard
	Mn	**55**	**199.314**	ug/L	3.850	1	813	6297997	1	Standard
>	**Ge**	**72**		ug/L			47075	40401	0	KED
	Ni	**60**	**197.702**	ug/L	0.979	0	40	287095	0	KED
	Ni	**62**	**195.074**	ug/L	3.877	1	13	45858	1	KED
	Cu	**63**	**194.308**	ug/L	1.710	0	18	790649	0	KED
	Cu	**65**	**194.876**	ug/L	2.207	1	10	400334	0	KED
	Zn	**66**	**194.242**	ug/L	1.596	0	20	108672	0	KED
	Zn	**67**	**190.613**	ug/L	0.809	0	3	17646	0	KED
	As	**75**	**198.086**	ug/L	2.585	1	3	56991	1	KED
	Se	**78**	**193.692**	ug/L	3.143	1	9	5425	1	KED
	Kr	**83**		ug/L			86	168	13	Standard
>	**In-1**	**115**		ug/L			10479	9052	2	KED
	Cd	**111**	**202.799**	ug/L	5.189	2	3	56748	0	KED
	Cd	**114**	**203.798**	ug/L	4.190	2	3	144099	1	KED
>	**In**	**115**		ug/L			438538	451148	2	Standard
	Ag	**107**	**189.750**	ug/L	1.648	0	33	2698687	2	Standard
	Sb	**121**	**205.354**	ug/L	3.196	1	52	2543032	2	Standard
	Sb	**123**	**201.598**	ug/L	2.270	1	41	1904027	1	Standard
	Ba	**135**	**189.328**	ug/L	6.906	3	24	1016069	1	Standard
	Ba	**137**	**189.604**	ug/L	2.816	1	46	1944328	1	Standard
>	**Tb**	**159**		ug/L			208808	200932	1	Standard
	Tl	**205**	**197.268**	ug/L	1.644	0	41	11816103	0	Standard
	Pb	**208**	**201.032**	ug/L	2.683	1	106	15343273	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-HCV2
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 15:06:11
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38903	47166	0	Standard
⌈>	**Sc**	**45**		ug/L			171713	164702	2	Standard
|	**Cr**	**52**	**297.584**	ug/L	3.942	1	15772	6254984	3	Standard
|	**Cr**	**53**	**291.067**	ug/L	1.505	0	143	690620	2	Standard
⌊	**Mn**	**55**	**295.447**	ug/L	3.310	1	813	9142433	0	Standard
⌈>	**Ge**	**72**		ug/L			47075	39667	0	KED
|	**Ni**	**60**	**297.521**	ug/L	4.750	1	40	424148	0	KED
|	**Ni**	**62**	**298.549**	ug/L	7.798	2	13	68895	1	KED
|	**Cu**	**63**	**287.798**	ug/L	3.128	1	18	1149713	0	KED
|	**Cu**	**65**	**290.726**	ug/L	2.708	0	10	586384	1	KED
|	**Zn**	**66**	**284.284**	ug/L	4.132	1	20	156137	0	KED
|	**Zn**	**67**	**282.084**	ug/L	4.503	1	3	25636	0	KED
|	**As**	**75**	**299.771**	ug/L	2.753	0	3	84676	0	KED
⌊	**Se**	**78**	**285.755**	ug/L	4.654	1	9	7855	0	KED
	Kr	**83**		ug/L			86	246	7	Standard
⌈>	**In-1**	**115**		ug/L			10479	9142	2	KED
|	**Cd**	**111**	**291.791**	ug/L	6.454	2	3	82471	0	KED
⌊	**Cd**	**114**	**294.076**	ug/L	6.650	2	3	210004	0	KED
⌈>	**In**	**115**		ug/L			438538	411140	3	Standard
|	**Ag**	**107**	**293.106**	ug/L	1.653	0	33	3799841	3	Standard
|	**Sb**	**121**	**323.199**	ug/L	4.162	1	52	3647693	2	Standard
|	**Sb**	**123**	**326.003**	ug/L	6.048	1	41	2805669	1	Standard
|	**Ba**	**135**	**293.340**	ug/L	9.258	3	24	1434785	1	Standard
⌊	**Ba**	**137**	**305.922**	ug/L	3.985	1	46	2858995	1	Standard
⌈>	**Tb**	**159**		ug/L			208808	191320	1	Standard
|	**Tl**	**205**	**299.517**	ug/L	2.679	0	41	17083401	1	Standard
⌊	**Pb**	**208**	**305.032**	ug/L	2.733	0	106	22169277	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL2
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 15:13:44
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			38903	45774	1	Standard
>	Sc	45		ug/L			171713	174069	2	Standard
	Cr	52	0.020	ug/L	0.016	79	15772	16432	1	Standard
	Cr	53	0.052	ug/L	0.007	12	143	276	8	Standard
	Mn	55	0.019	ug/L	0.001	6	813	1459	3	Standard
>	Ge	72		ug/L			47075	45215	1	KED
	Ni	60	0.016	ug/L	0.003	16	40	64	7	KED
	Ni	62	-0.010	ug/L	0.015	147	13	10	39	KED
	Cu	63	0.034	ug/L	0.004	11	18	171	10	KED
	Cu	65	0.034	ug/L	0.008	23	10	88	20	KED
	Zn	66	0.289	ug/L	0.059	20	20	200	18	KED
	Zn	67	0.375	ug/L	0.067	17	3	41	16	KED
	As	75	0.021	ug/L	0.006	29	3	9	19	KED
	Se	78	0.074	ug/L	0.048	65	9	11	13	KED
	Kr	83		ug/L			86	76	3	Standard
>	In-1	115		ug/L			10479	10226	2	KED
	Cd	111	0.131	ug/L	0.205	155	3	44	143	KED
	Cd	114	0.103	ug/L	0.161	156	3	84	150	KED
>	In	115		ug/L			438538	455921	1	Standard
	Ag	107	0.008	ug/L	0.002	30	33	153	23	Standard
	Sb	121	0.234	ug/L	0.005	2	52	2985	3	Standard
	Sb	123	0.246	ug/L	0.008	3	41	2388	4	Standard
	Ba	135	0.065	ug/L	0.005	7	24	375	6	Standard
	Ba	137	0.059	ug/L	0.004	7	46	664	5	Standard
>	Tb	159		ug/L			208808	205860	2	Standard
	Tl	205	0.022	ug/L	0.002	7	41	1372	4	Standard
	Pb	208	0.012	ug/L	0.001	7	106	1010	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL3
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 15:27:56
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38903	45477	2	Standard
⌈>	**Sc**	**45**		ug/L			171713	172855	2	Standard
|	**Cr**	**52**	**0.037**	ug/L	0.002	6	15772	16679	1	Standard
|	**Cr**	**53**	**0.037**	ug/L	0.003	7	143	236	3	Standard
⌊	**Mn**	**55**	**0.014**	ug/L	0.001	6	813	1280	3	Standard
⌈>	**Ge**	**72**		ug/L			47075	44016	12	KED
|	**Ni**	**60**	**0.007**	ug/L	0.008	123	40	47	22	KED
|	**Ni**	**62**	**-0.002**	ug/L	0.027	1416	13	11	44	KED
|	**Cu**	**63**	**0.026**	ug/L	0.002	8	18	133	14	KED
|	**Cu**	**65**	**0.022**	ug/L	0.004	18	10	59	18	KED
|	**Zn**	**66**	**0.303**	ug/L	0.065	21	20	200	7	KED
|	**Zn**	**67**	**0.294**	ug/L	0.026	8	3	32	5	KED
|	**As**	**75**	**0.004**	ug/L	0.005	118	3	4	22	KED
⌊	**Se**	**78**	**0.146**	ug/L	0.209	143	9	12	33	KED
	Kr	**83**		ug/L			86	66	31	Standard
⌈>	**In-1**	**115**		ug/L			10479	11134	1	KED
|	**Cd**	**111**	**0.001**	ug/L	0.006	531	3	4	53	KED
⌊	**Cd**	**114**	**0.004**	ug/L	0.001	33	3	6	16	KED
⌈>	**In**	**115**		ug/L			438538	465242	2	Standard
|	**Ag**	**107**	**0.003**	ug/L	0.001	26	33	76	16	Standard
|	**Sb**	**121**	**0.074**	ug/L	0.002	3	52	1003	5	Standard
|	**Sb**	**123**	**0.077**	ug/L	0.001	1	41	794	1	Standard
|	**Ba**	**135**	**0.060**	ug/L	0.007	12	24	358	10	Standard
⌊	**Ba**	**137**	**0.059**	ug/L	0.007	11	46	671	8	Standard
⌈>	**Tb**	**159**		ug/L			208808	206913	0	Standard
|	**Tl**	**205**	**0.006**	ug/L	0.001	11	41	412	10	Standard
⌊	**Pb**	**208**	**0.009**	ug/L	0.001	6	106	838	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV2
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 15:33:51
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38903	39463	1	Standard
⌈>	**Sc**	**45**		ug/L			171713	175667	1	Standard
|	**Cr**	**52**	**48.750**	ug/L	0.435	0	15772	1106284	2	Standard
|	**Cr**	**53**	**49.705**	ug/L	1.061	2	143	125891	2	Standard
⌊	**Mn**	**55**	**49.799**	ug/L	1.416	2	813	1644596	3	Standard
⌈>	**Ge**	**72**		ug/L			47075	45708	1	KED
|	**Ni**	**60**	**49.666**	ug/L	0.732	1	40	81617	0	KED
|	**Ni**	**62**	**49.424**	ug/L	0.521	1	13	13154	1	KED
|	**Cu**	**63**	**49.896**	ug/L	0.727	1	18	229686	0	KED
|	**Cu**	**65**	**49.679**	ug/L	0.703	1	10	115464	1	KED
|	**Zn**	**66**	**50.735**	ug/L	0.453	0	20	32127	1	KED
|	**Zn**	**67**	**49.620**	ug/L	1.262	2	3	5198	1	KED
|	**As**	**75**	**49.501**	ug/L	0.736	1	3	16113	0	KED
⌊	**Se**	**78**	**49.600**	ug/L	1.108	2	9	1578	2	KED
	Kr	**83**		ug/L			86	81	20	Standard
⌈>	**In-1**	**115**		ug/L			10479	10282	1	KED
|	**Cd**	**111**	**49.503**	ug/L	0.991	2	3	15742	1	KED
⌊	**Cd**	**114**	**50.653**	ug/L	1.020	2	3	40692	0	KED
⌈>	**In**	**115**		ug/L			438538	450344	2	Standard
|	**Ag**	**107**	**50.160**	ug/L	1.233	2	33	712142	2	Standard
|	**Sb**	**121**	**52.039**	ug/L	1.379	2	52	643211	1	Standard
|	**Sb**	**123**	**52.295**	ug/L	0.511	0	41	493134	2	Standard
|	**Ba**	**135**	**51.707**	ug/L	0.751	1	24	277157	1	Standard
⌊	**Ba**	**137**	**51.076**	ug/L	1.042	2	46	522849	0	Standard
⌈>	**Tb**	**159**		ug/L			208808	207725	1	Standard
|	**Tl**	**205**	**51.050**	ug/L	0.670	1	41	3161174	1	Standard
⌊	**Pb**	**208**	**51.023**	ug/L	0.786	1	106	4025777	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB2
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 15:44:42
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38903	40167	2	Standard
>	**Sc**	**45**		ug/L			171713	173353	1	Standard
	Cr	**52**	**0.007**	ug/L	0.008	108	15772	16088	2	Standard
	Cr	**53**	**0.020**	ug/L	0.003	16	143	194	4	Standard
	Mn	**55**	**-0.005**	ug/L	0.001	14	813	658	2	Standard
>	**Ge**	**72**		ug/L			47075	46153	0	KED
	Ni	**60**	**-0.009**	ug/L	0.003	36	40	24	23	KED
	Ni	**62**	**-0.023**	ug/L	0.022	95	13	6	83	KED
	Cu	**63**	**0.006**	ug/L	0.001	21	18	48	13	KED
	Cu	**65**	**0.009**	ug/L	0.005	54	10	32	36	KED
	Zn	**66**	**0.018**	ug/L	0.015	87	20	31	30	KED
	Zn	**67**	**0.006**	ug/L	0.018	273	3	3	50	KED
	As	**75**	**0.007**	ug/L	0.001	13	3	5	4	KED
	Se	**78**	**0.036**	ug/L	0.070	196	9	10	21	KED
	Kr	**83**		ug/L			86	57	12	Standard
>	**In-1**	**115**		ug/L			10479	10597	1	KED
	Cd	**111**	**0.007**	ug/L	0.003	45	3	5	16	KED
	Cd	**114**	**0.002**	ug/L	0.001	67	3	4	22	KED
>	**In**	**115**		ug/L			438538	465023	1	Standard
	Ag	**107**	**0.003**	ug/L	0.001	30	33	73	17	Standard
	Sb	**121**	**0.071**	ug/L	0.003	4	52	955	4	Standard
	Sb	**123**	**0.071**	ug/L	0.004	5	41	734	4	Standard
	Ba	**135**	**0.001**	ug/L	0.001	270	24	29	26	Standard
	Ba	**137**	**0.001**	ug/L	0.000	21	46	60	3	Standard
>	**Tb**	**159**		ug/L			208808	205888	2	Standard
	Tl	**205**	**0.005**	ug/L	0.000	3	41	323	5	Standard
	Pb	**208**	**0.002**	ug/L	0.000	4	106	231	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0755-BLK1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 15:52:50
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			38903	63773	1	Standard
>	Sc	45		ug/L			171713	177168	1	Standard
	Cr	52	0.076	ug/L	0.018	23	15772	17992	2	Standard
	Cr	53	0.047	ug/L	0.012	25	143	266	10	Standard
	Mn	55	0.068	ug/L	0.002	2	813	3110	1	Standard
>	Ge	72		ug/L			47075	46923	1	KED
	Ni	60	-0.003	ug/L	0.009	258	40	34	41	KED
	Ni	62	-0.035	ug/L	0.007	20	13	3	50	KED
	Cu	63	0.009	ug/L	0.002	19	18	62	15	KED
	Cu	65	0.010	ug/L	0.003	28	10	33	18	KED
	Zn	66	0.086	ug/L	0.020	22	20	76	18	KED
	Zn	67	0.118	ug/L	0.052	44	3	15	36	KED
	As	75	0.008	ug/L	0.012	161	3	5	70	KED
	Se	78	0.134	ug/L	0.124	92	9	13	28	KED
	Kr	83		ug/L			86	48	14	Standard
>	In-1	115		ug/L			10479	10891	1	KED
	Cd	111	0.007	ug/L	0.003	47	3	6	18	KED
	Cd	114	0.003	ug/L	0.004	102	3	6	48	KED
>	In	115		ug/L			438538	460408	0	Standard
	Ag	107	0.001	ug/L	0.001	115	33	51	37	Standard
	Sb	121	0.040	ug/L	0.003	6	52	562	5	Standard
	Sb	123	0.040	ug/L	0.001	2	41	433	3	Standard
	Ba	135	0.044	ug/L	0.000	1	24	269	1	Standard
	Ba	137	0.041	ug/L	0.004	10	46	474	8	Standard
>	Tb	159		ug/L			208808	208079	0	Standard
	Tl	205	0.004	ug/L	0.001	14	41	267	12	Standard
	Pb	208	0.003	ug/L	0.000	14	106	330	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0755-BS1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 15:57:39
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			38903	65862	0	Standard
>	Sc	45		ug/L			171713	176277	3	Standard
	Cr	52	26.413	ug/L	0.422	1	15772	608607	2	Standard
	Cr	53	26.556	ug/L	0.418	1	143	67542	2	Standard
	Mn	55	26.840	ug/L	0.716	2	813	889207	1	Standard
>	Ge	72		ug/L			47075	45069	1	KED
	Ni	60	26.624	ug/L	0.468	1	40	43157	0	KED
	Ni	62	27.109	ug/L	0.525	1	13	7121	2	KED
	Cu	63	26.662	ug/L	0.354	1	18	121028	0	KED
	Cu	65	26.529	ug/L	0.190	0	10	60804	1	KED
	Zn	66	85.321	ug/L	2.123	2	20	53249	1	KED
	Zn	67	80.358	ug/L	0.500	0	3	8300	1	KED
	As	75	26.230	ug/L	0.298	1	3	8420	0	KED
	Se	78	84.030	ug/L	2.432	2	9	2630	2	KED
	Kr	83		ug/L			86	72	18	Standard
>	In-1	115		ug/L			10479	10255	2	KED
	Cd	111	26.295	ug/L	0.620	2	3	8339	0	KED
	Cd	114	26.681	ug/L	0.687	2	3	21373	0	KED
>	In	115		ug/L			438538	465113	2	Standard
	Ag	107	25.739	ug/L	0.394	1	33	377375	1	Standard
	Sb	121	26.440	ug/L	0.690	2	52	337494	0	Standard
	Sb	123	27.038	ug/L	1.141	4	41	263176	2	Standard
	Ba	135	26.229	ug/L	0.899	3	24	145170	2	Standard
	Ba	137	26.016	ug/L	0.950	3	46	274971	0	Standard
>	Tb	159		ug/L			208808	210252	0	Standard
	Tl	205	25.892	ug/L	0.376	1	41	1622899	0	Standard
	Pb	208	26.117	ug/L	0.189	0	106	2086030	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0078-BLK1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 16:02:28
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			38903	62219	1	Standard
>	Sc	45		ug/L			171713	176803	3	Standard
	Cr	52	0.082	ug/L	0.022	26	15772	18077	3	Standard
	Cr	53	0.053	ug/L	0.014	27	143	282	12	Standard
	Mn	55	0.390	ug/L	0.014	3	813	13789	4	Standard
>	Ge	72		ug/L			47075	46013	2	KED
	Ni	60	0.002	ug/L	0.008	318	40	43	30	KED
	Ni	62	-0.015	ug/L	0.005	30	13	8	12	KED
	Cu	63	0.060	ug/L	0.006	9	18	295	8	KED
	Cu	65	0.055	ug/L	0.012	21	10	138	21	KED
	Zn	66	0.653	ug/L	0.019	2	20	435	3	KED
	Zn	67	0.608	ug/L	0.143	23	3	67	23	KED
	As	75	0.008	ug/L	0.002	23	3	5	12	KED
	Se	78	0.036	ug/L	0.058	160	9	10	18	KED
	Kr	83		ug/L			86	51	11	Standard
>	In-1	115		ug/L			10479	10369	2	KED
	Cd	111	0.008	ug/L	0.013	163	3	6	71	KED
	Cd	114	0.007	ug/L	0.002	31	3	8	21	KED
>	In	115		ug/L			438538	462797	1	Standard
	Ag	107	0.006	ug/L	0.007	113	33	126	80	Standard
	Sb	121	0.028	ug/L	0.008	26	52	408	21	Standard
	Sb	123	0.027	ug/L	0.009	34	41	302	28	Standard
	Ba	135	0.026	ug/L	0.009	35	24	168	28	Standard
	Ba	137	0.028	ug/L	0.014	49	46	342	41	Standard
>	Tb	159		ug/L			208808	205274	1	Standard
	Tl	205	0.011	ug/L	0.012	115	41	690	109	Standard
	Pb	208	0.016	ug/L	0.013	82	106	1377	76	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0078-BS1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 16:07:17
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			38903	63679	1	Standard
>	Sc	45		ug/L			171713	175815	3	Standard
	Cr	52	25.936	ug/L	0.626	2	15772	596266	1	Standard
	Cr	53	26.344	ug/L	0.702	2	143	66818	1	Standard
	Mn	55	27.129	ug/L	0.691	2	813	896480	1	Standard
>	Ge	72		ug/L			47075	46660	1	KED
	Ni	60	26.355	ug/L	0.066	0	40	44234	1	KED
	Ni	62	26.421	ug/L	0.962	3	13	7182	2	KED
	Cu	63	27.148	ug/L	0.782	2	18	127563	1	KED
	Cu	65	27.450	ug/L	0.620	2	10	65124	0	KED
	Zn	66	86.355	ug/L	1.539	1	20	55800	0	KED
	Zn	67	81.154	ug/L	0.516	0	3	8678	1	KED
	As	75	25.121	ug/L	0.414	1	3	8349	0	KED
	Se	78	81.470	ug/L	1.891	2	9	2640	1	KED
	Kr	83		ug/L			86	65	10	Standard
>	In-1	115		ug/L			10479	10366	2	KED
	Cd	111	26.609	ug/L	0.881	3	3	8528	1	KED
	Cd	114	26.548	ug/L	0.593	2	3	21498	1	KED
>	In	115		ug/L			438538	475326	0	Standard
	Ag	107	25.685	ug/L	0.244	0	33	384956	0	Standard
	Sb	121	0.081	ug/L	0.003	4	52	1116	4	Standard
	Sb	123	0.083	ug/L	0.003	3	41	871	3	Standard
	Ba	135	25.684	ug/L	0.580	2	24	145335	1	Standard
	Ba	137	25.898	ug/L	0.779	3	46	279890	2	Standard
>	Tb	159		ug/L			208808	209081	0	Standard
	Tl	205	26.495	ug/L	0.215	0	41	1651530	0	Standard
	Pb	208	26.889	ug/L	0.725	2	106	2135722	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23E0024-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Wednesday, May 03, 2023 16:13:14
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			38903	66030	2	Standard
> Sc	45		ug/L			171713	212784	3	Standard
Cr	52	85.869	ug/L	2.051	2	15772	2343852	1	Standard
Cr	53	89.053	ug/L	2.752	3	143	272878	1	Standard
Mn	55	3.654	ug/L	0.084	2	813	147003	1	Standard
> Ge	72		ug/L			47075	43575	1	KED
Ni	60	3.390	ug/L	0.037	1	40	5345	0	KED
Ni	62	3.599	ug/L	0.102	2	13	924	1	KED
Cu	63	13.164	ug/L	0.220	1	18	57778	1	KED
Cu	65	13.014	ug/L	0.405	3	10	28834	1	KED
Zn	66	24.845	ug/L	0.394	1	20	15009	2	KED
Zn	67	22.880	ug/L	0.865	3	3	2286	3	KED
As	75	0.167	ug/L	0.009	5	3	54	4	KED
Se	78	0.135	ug/L	0.049	36	9	12	12	KED
Kr	83		ug/L			86	149	19	Standard
> In-1	115		ug/L			10479	9748	1	KED
Cd	111	0.444	ug/L	0.010	2	3	137	0	KED
Cd	114	0.483	ug/L	0.058	12	3	370	10	KED
> In	115		ug/L			438538	445200	3	Standard
Ag	107	0.042	ug/L	0.008	19	33	624	21	Standard
Sb	121	0.802	ug/L	0.035	4	52	9851	3	Standard
Sb	123	0.822	ug/L	0.051	6	41	7700	3	Standard
Ba	135	2.591	ug/L	0.036	1	24	13751	2	Standard
Ba	137	2.611	ug/L	0.044	1	46	26463	1	Standard
> Tb	159		ug/L			208808	206984	1	Standard
Tl	205	0.008	ug/L	0.006	78	41	507	73	Standard
Pb	208	0.401	ug/L	0.001	0	106	31620	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23E0004-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Wednesday, May 03, 2023 16:19:10
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			38903	322990	1	Standard
>	Sc	45		ug/L			171713	198919	2	Standard
	Cr	52	1.980	ug/L	0.033	1	15772	68399	2	Standard
	Cr	53	1.791	ug/L	0.041	2	143	5297	2	Standard
	Mn	55	17.469	ug/L	0.242	1	813	653821	2	Standard
>	Ge	72		ug/L			47075	39449	1	KED
	Ni	60	5.182	ug/L	0.054	1	40	7381	1	KED
	Ni	62	5.103	ug/L	0.139	2	13	1182	2	KED
	Cu	63	0.509	ug/L	0.029	5	18	2035	4	KED
	Cu	65	0.503	ug/L	0.011	2	10	1018	2	KED
	Zn	66	4.162	ug/L	0.074	1	20	2289	0	KED
	Zn	67	4.032	ug/L	0.136	3	3	366	3	KED
	As	75	0.231	ug/L	0.013	5	3	67	5	KED
	Se	78	0.093	ug/L	0.104	111	9	10	26	KED
	Kr	83		ug/L			86	53	29	Standard
>	In-1	115		ug/L			10479	9007	0	KED
	Cd	111	0.031	ug/L	0.014	44	3	11	32	KED
	Cd	114	0.019	ug/L	0.013	66	3	16	55	KED
>	In	115		ug/L			438538	475726	2	Standard
	Ag	107	0.003	ug/L	0.001	34	33	74	18	Standard
	Sb	121	0.129	ug/L	0.007	5	52	1746	7	Standard
	Sb	123	0.128	ug/L	0.005	3	41	1318	1	Standard
	Ba	135	6.737	ug/L	0.016	0	24	38175	2	Standard
	Ba	137	6.441	ug/L	0.109	1	46	69703	1	Standard
>	Tb	159		ug/L			208808	206466	1	Standard
	Tl	205	0.002	ug/L	0.001	27	41	164	20	Standard
	Pb	208	0.022	ug/L	0.001	2	106	1843	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23E0043-01
Sample Dil Factor: 5
Comments:
Sample Date/Time: Wednesday, May 03, 2023 16:26:10
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			38903	239157	3	Standard
>	Sc	45		ug/L			171713	187577	2	Standard
	Cr	52	4.021	ug/L	0.078	1	15772	113216	2	Standard
	Cr	53	3.888	ug/L	0.109	2	143	10660	3	Standard
	Mn	55	12.545	ug/L	0.142	1	813	443064	3	Standard
>	Ge	72		ug/L			47075	42145	1	KED
	Ni	60	1.650	ug/L	0.034	2	40	2534	2	KED
	Ni	62	1.650	ug/L	0.160	9	13	416	9	KED
	Cu	63	0.370	ug/L	0.013	3	18	1585	2	KED
	Cu	65	0.372	ug/L	0.011	2	10	807	1	KED
	Zn	66	4.291	ug/L	0.185	4	20	2520	2	KED
	Zn	67	4.388	ug/L	0.163	3	3	426	5	KED
	As	75	0.096	ug/L	0.011	11	3	31	10	KED
	Se	78	0.106	ug/L	0.026	24	9	11	8	KED
	Kr	83		ug/L			86	41	14	Standard
>	In-1	115		ug/L			10479	9793	0	KED
	Cd	111	0.060	ug/L	0.017	27	3	21	22	KED
	Cd	114	0.050	ug/L	0.002	3	3	41	2	KED
>	In	115		ug/L			438538	498837	2	Standard
	Ag	107	0.007	ug/L	0.001	18	33	143	14	Standard
	Sb	121	0.142	ug/L	0.005	3	52	2000	1	Standard
	Sb	123	0.147	ug/L	0.010	6	41	1583	3	Standard
	Ba	135	2.592	ug/L	0.043	1	24	15419	3	Standard
	Ba	137	2.493	ug/L	0.112	4	46	28305	2	Standard
>	Tb	159		ug/L			208808	209483	0	Standard
	Tl	205	0.001	ug/L	0.000	25	41	131	16	Standard
	Pb	208	0.036	ug/L	0.001	1	106	2939	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0285-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Wednesday, May 03, 2023 16:31:49
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			38903	583465	2	Standard
>	Sc	45		ug/L			171713	172840	1	Standard
	Cr	52	2.093	ug/L	0.068	3	15772	61929	3	Standard
	Cr	53	1.258	ug/L	0.021	1	143	3277	2	Standard
	Mn	55	27.667	ug/L	0.475	1	813	899386	2	Standard
>	Ge	72		ug/L			47075	34012	1	KED
	Ni	60	7.140	ug/L	0.200	2	40	8755	2	KED
	Ni	62	7.072	ug/L	0.275	3	13	1408	4	KED
	Cu	63	3.258	ug/L	0.009	0	18	11172	1	KED
	Cu	65	3.209	ug/L	0.056	1	10	5556	0	KED
	Zn	66	6.365	ug/L	0.060	0	20	3011	0	KED
	Zn	67	6.215	ug/L	0.503	8	3	486	7	KED
	As	75	0.128	ug/L	0.009	7	3	33	6	KED
	Se	78	0.106	ug/L	0.052	49	9	9	13	KED
	Kr	83		ug/L			86	71	27	Standard
>	In-1	115		ug/L			10479	8302	2	KED
	Cd	111	0.044	ug/L	0.015	33	3	13	28	KED
	Cd	114	0.033	ug/L	0.007	22	3	23	17	KED
>	In	115		ug/L			438538	448701	1	Standard
	Ag	107	0.000	ug/L	0.001	700	33	36	45	Standard
	Sb	121	0.281	ug/L	0.001	0	52	3509	1	Standard
	Sb	123	0.272	ug/L	0.002	0	41	2598	1	Standard
	Ba	135	12.186	ug/L	0.127	1	24	65117	2	Standard
	Ba	137	11.825	ug/L	0.113	0	46	120679	1	Standard
>	Tb	159		ug/L			208808	197526	1	Standard
	Tl	205	0.001	ug/L	0.000	24	41	102	14	Standard
	Pb	208	0.031	ug/L	0.002	5	106	2394	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0293-04
Sample Dil Factor: 2
Comments:
Sample Date/Time: Wednesday, May 03, 2023 16:37:08
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			38903	81405	0	Standard
>	Sc	45		ug/L			171713	189035	6	Standard
	Cr	52	0.699	ug/L	0.065	9	15772	34126	1	Standard
	Cr	53	0.907	ug/L	0.033	3	143	2625	3	Standard
	Mn	55	26.100	ug/L	1.776	6	813	925467	2	Standard
>	Ge	72		ug/L			47075	40658	0	KED
	Ni	60	4.756	ug/L	0.081	1	40	6983	1	KED
	Ni	62	4.775	ug/L	0.125	2	13	1140	3	KED
	Cu	63	24.721	ug/L	0.329	1	18	101244	1	KED
	Cu	65	24.732	ug/L	0.122	0	10	51138	0	KED
	Zn	66	520.669	ug/L	3.490	0	20	293126	1	KED
	Zn	67	480.700	ug/L	4.870	1	3	44781	1	KED
	As	75	0.276	ug/L	0.025	9	3	82	9	KED
	Se	78	0.009	ug/L	0.091	1061	9	8	30	KED
	Kr	83		ug/L			86	63	18	Standard
>	In-1	115		ug/L			10479	9478	0	KED
	Cd	111	0.218	ug/L	0.021	9	3	66	9	KED
	Cd	114	0.225	ug/L	0.037	16	3	169	16	KED
>	In	115		ug/L			438538	487421	7	Standard
	Ag	107	0.001	ug/L	0.000	25	33	59	17	Standard
	Sb	121	18.020	ug/L	0.956	5	52	240517	2	Standard
	Sb	123	18.295	ug/L	1.273	6	41	186099	2	Standard
	Ba	135	6.309	ug/L	0.584	9	24	36457	2	Standard
	Ba	137	6.154	ug/L	0.566	9	46	67923	1	Standard
>	Tb	159		ug/L			208808	199862	6	Standard
	Tl	205	0.003	ug/L	0.001	15	41	233	9	Standard
	Pb	208	0.371	ug/L	0.028	7	106	28209	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL4
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 16:42:50
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38903	43300	1	Standard
⌈>	**Sc**	**45**		ug/L			171713	173951	3	Standard
|	**Cr**	**52**	**-0.014**	ug/L	0.012	84	15772	15656	1	Standard
|	**Cr**	**53**	**0.031**	ug/L	0.004	14	143	221	2	Standard
⌊	**Mn**	**55**	**-0.006**	ug/L	0.001	16	813	630	5	Standard
⌈>	**Ge**	**72**		ug/L			47075	42541	1	KED
|	**Ni**	**60**	**-0.012**	ug/L	0.004	30	40	17	32	KED
|	**Ni**	**62**	**-0.026**	ug/L	0.007	28	13	5	33	KED
|	**Cu**	**63**	**0.005**	ug/L	0.001	19	18	38	10	KED
|	**Cu**	**65**	**0.004**	ug/L	0.003	86	10	17	37	KED
|	**Zn**	**66**	**0.041**	ug/L	0.013	31	20	42	18	KED
|	**Zn**	**67**	**0.029**	ug/L	0.019	64	3	5	33	KED
|	**As**	**75**	**0.001**	ug/L	0.009	980	3	3	86	KED
⌊	**Se**	**78**	**0.050**	ug/L	0.063	125	9	10	18	KED
	Kr	**83**		ug/L			86	48	23	Standard
⌈>	**In-1**	**115**		ug/L			10479	9889	0	KED
|	**Cd**	**111**	**0.002**	ug/L	0.006	370	3	3	50	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.004	206	3	4	69	KED
⌈>	**In**	**115**		ug/L			438538	495155	2	Standard
|	**Ag**	**107**	**-0.001**	ug/L	0.001	106	33	27	40	Standard
|	**Sb**	**121**	**0.003**	ug/L	0.001	22	52	106	9	Standard
|	**Sb**	**123**	**0.004**	ug/L	0.001	15	41	93	5	Standard
|	**Ba**	**135**	**-0.001**	ug/L	0.001	98	24	23	16	Standard
⌊	**Ba**	**137**	**0.000**	ug/L	0.001	2175	46	52	18	Standard
⌈>	**Tb**	**159**		ug/L			208808	205452	0	Standard
|	**Tl**	**205**	**0.001**	ug/L	0.000	30	41	92	17	Standard
⌊	**Pb**	**208**	**0.003**	ug/L	0.000	12	106	332	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV3
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 16:47:39
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38903	40009	1	Standard
⌈>	**Sc**	**45**		ug/L			171713	178562	0	Standard
|	**Cr**	**52**	**48.930**	ug/L	0.815	1	15772	1128466	1	Standard
|	**Cr**	**53**	**49.280**	ug/L	0.941	1	143	126882	2	Standard
⌊	**Mn**	**55**	**50.086**	ug/L	0.521	1	813	1681161	0	Standard
⌈>	**Ge**	**72**		ug/L			47075	43164	1	KED
|	**Ni**	**60**	**51.477**	ug/L	0.484	0	40	79887	0	KED
|	**Ni**	**62**	**51.150**	ug/L	0.855	1	13	12855	1	KED
|	**Cu**	**63**	**51.489**	ug/L	0.503	0	18	223845	1	KED
|	**Cu**	**65**	**51.520**	ug/L	0.689	1	10	113081	1	KED
|	**Zn**	**66**	**51.831**	ug/L	0.639	1	20	30996	2	KED
|	**Zn**	**67**	**51.336**	ug/L	0.984	1	3	5078	1	KED
|	**As**	**75**	**49.541**	ug/L	0.790	1	3	15230	1	KED
⌊	**Se**	**78**	**50.633**	ug/L	0.936	1	9	1521	0	KED
	Kr	**83**		ug/L			86	67	11	Standard
⌈>	**In-1**	**115**		ug/L			10479	9988	0	KED
|	**Cd**	**111**	**49.879**	ug/L	0.373	0	3	15410	0	KED
⌊	**Cd**	**114**	**50.141**	ug/L	0.772	1	3	39134	1	KED
⌈>	**In**	**115**		ug/L			438538	498548	0	Standard
|	**Ag**	**107**	**46.983**	ug/L	1.582	3	33	738434	2	Standard
|	**Sb**	**121**	**49.755**	ug/L	0.493	0	52	681085	1	Standard
|	**Sb**	**123**	**51.045**	ug/L	0.203	0	41	532906	1	Standard
|	**Ba**	**135**	**49.468**	ug/L	0.214	0	24	293594	1	Standard
⌊	**Ba**	**137**	**47.725**	ug/L	1.112	2	46	540983	2	Standard
⌈>	**Tb**	**159**		ug/L			208808	210841	0	Standard
|	**Tl**	**205**	**52.878**	ug/L	0.517	0	41	3323710	1	Standard
⌊	**Pb**	**208**	**52.271**	ug/L	0.861	1	106	4186504	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB3
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 16:55:13
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			38903	39923	1	Standard
⌈>	**Sc**	**45**		ug/L			171713	173881	3	Standard
|	**Cr**	**52**	**0.002**	ug/L	0.031	1253	15772	16019	3	Standard
|	**Cr**	**53**	**0.008**	ug/L	0.004	47	143	165	6	Standard
⌊	**Mn**	**55**	**-0.008**	ug/L	0.000	4	813	550	2	Standard
⌈>	**Ge**	**72**		ug/L			47075	44018	1	KED
|	**Ni**	**60**	**-0.014**	ug/L	0.001	9	40	15	12	KED
|	**Ni**	**62**	**-0.034**	ug/L	0.007	21	13	3	50	KED
|	**Cu**	**63**	**0.007**	ug/L	0.003	47	18	47	28	KED
|	**Cu**	**65**	**0.007**	ug/L	0.002	28	10	25	15	KED
|	**Zn**	**66**	**0.024**	ug/L	0.014	57	20	33	26	KED
|	**Zn**	**67**	**0.021**	ug/L	0.011	51	3	5	21	KED
|	**As**	**75**	**0.004**	ug/L	0.006	165	3	4	44	KED
⌊	**Se**	**78**	**0.053**	ug/L	0.055	103	9	10	14	KED
	Kr	**83**		ug/L			86	48	34	Standard
⌈>	**In-1**	**115**		ug/L			10479	10413	1	KED
|	**Cd**	**111**	**0.004**	ug/L	0.009	219	3	4	60	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.003	160	3	4	48	KED
⌈>	**In**	**115**		ug/L			438538	488915	2	Standard
|	**Ag**	**107**	**0.001**	ug/L	0.000	10	33	57	5	Standard
|	**Sb**	**121**	**0.050**	ug/L	0.003	6	52	725	4	Standard
|	**Sb**	**123**	**0.053**	ug/L	0.001	2	41	587	2	Standard
|	**Ba**	**135**	**-0.002**	ug/L	0.001	51	24	15	36	Standard
⌊	**Ba**	**137**	**-0.001**	ug/L	0.000	39	46	39	10	Standard
⌈>	**Tb**	**159**		ug/L			208808	207203	2	Standard
|	**Tl**	**205**	**0.004**	ug/L	0.000	12	41	264	8	Standard
⌊	**Pb**	**208**	**0.002**	ug/L	0.000	6	106	247	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 17:03:38
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				35999	1	Standard
⌈>	**Sc**	**45**		ug/L				178549	3	Standard
|	**Cr**	**52**		ug/L				15792	1	Standard
⌊	**Cr**	**53**		ug/L				166	6	Standard
⌈>	**Ge**	**72**		ug/L				45167	0	KED
|	**Ni**	**60**		ug/L				9	20	KED
|	**Ni**	**62**		ug/L				1	100	KED
|	**Cu**	**63**		ug/L				21	30	KED
|	**Cu**	**65**		ug/L				12	17	KED
|	**Zn**	**66**		ug/L				32	15	KED
|	**Zn**	**67**		ug/L				5	57	KED
|	**As**	**75**		ug/L				5	48	KED
⌊	**Se**	**78**		ug/L				10	16	KED
	Kr	**83**		ug/L				57	15	Standard
⌈>	**In-1**	**115**		ug/L				10467	2	KED
|	**Cd**	**111**		ug/L				2	21	KED
⌊	**Cd**	**114**		ug/L				6	18	KED
⌈>	**In**	**115**		ug/L				500517	1	Standard
|	**Ag**	**107**		ug/L				34	22	Standard
|	**Sb**	**121**		ug/L				300	9	Standard
|	**Sb**	**123**		ug/L				219	5	Standard
|	**Ba**	**135**		ug/L				15	21	Standard
⌊	**Ba**	**137**		ug/L				32	31	Standard
⌈>	**Tb**	**159**		ug/L				210378	0	Standard
|	**Tl**	**205**		ug/L				126	8	Standard
⌊	**Pb**	**208**		ug/L				139	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV4
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 17:08:25
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35999	39266	0	Standard
⌈>	**Sc**	**45**		ug/L			178549	176013	1	Standard
|	**Cr**	**52**	**49.028**	ug/L	0.929	1	15792	1113919	1	Standard
⌊	**Cr**	**53**	**50.412**	ug/L	0.872	1	166	127945	1	Standard
⌈>	**Ge**	**72**		ug/L			45167	44178	1	KED
|	**Ni**	**60**	**51.835**	ug/L	0.323	0	9	82305	0	KED
|	**Ni**	**62**	**51.397**	ug/L	0.684	1	1	13209	0	KED
|	**Cu**	**63**	**51.699**	ug/L	0.753	1	21	230029	0	KED
|	**Cu**	**65**	**51.365**	ug/L	0.405	0	12	115386	0	KED
|	**Zn**	**66**	**51.749**	ug/L	1.165	2	32	31688	3	KED
|	**Zn**	**67**	**50.464**	ug/L	0.920	1	5	5112	0	KED
|	**As**	**75**	**49.976**	ug/L	0.573	1	5	15726	0	KED
⌊	**Se**	**78**	**50.133**	ug/L	0.880	1	10	1543	0	KED
	Kr	**83**		ug/L			57	52	20	Standard
⌈>	**In-1**	**115**		ug/L			10467	10233	1	KED
|	**Cd**	**111**	**50.205**	ug/L	1.866	3	2	15883	2	KED
⌊	**Cd**	**114**	**50.930**	ug/L	0.396	0	6	40727	1	KED
⌈>	**In**	**115**		ug/L			500517	481443	0	Standard
|	**Ag**	**107**	**47.329**	ug/L	1.074	2	34	718452	2	Standard
|	**Sb**	**121**	**50.298**	ug/L	1.443	2	300	665069	2	Standard
|	**Sb**	**123**	**51.197**	ug/L	0.882	1	219	516311	1	Standard
|	**Ba**	**135**	**49.638**	ug/L	0.415	0	15	284478	0	Standard
⌊	**Ba**	**137**	**49.268**	ug/L	0.920	1	32	539328	1	Standard
⌈>	**Tb**	**159**		ug/L			210378	209798	0	Standard
|	**Tl**	**205**	**51.201**	ug/L	0.276	0	126	3202543	0	Standard
⌊	**Pb**	**208**	**51.747**	ug/L	0.113	0	139	4124239	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB4
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 17:15:56
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35999	36586	3	Standard
⌈>	**Sc**	**45**		ug/L			178549	174847	0	Standard
|	**Cr**	**52**	**0.005**	ug/L	0.009	163	15792	15581	1	Standard
⌊	**Cr**	**53**	**-0.003**	ug/L	0.007	225	166	154	12	Standard
⌈>	**Ge**	**72**		ug/L			45167	45085	1	KED
|	**Ni**	**60**	**0.006**	ug/L	0.001	11	9	19	5	KED
|	**Ni**	**62**	**-0.002**	ug/L	0.004	170	1	1	86	KED
|	**Cu**	**63**	**0.000**	ug/L	0.000	41	21	23	4	KED
|	**Cu**	**65**	**-0.000**	ug/L	0.001	394	12	12	18	KED
|	**Zn**	**66**	**-0.003**	ug/L	0.012	398	32	30	22	KED
|	**Zn**	**67**	**0.018**	ug/L	0.020	110	5	6	31	KED
|	**As**	**75**	**-0.003**	ug/L	0.004	152	5	4	30	KED
⌊	**Se**	**78**	**0.032**	ug/L	0.080	254	10	11	21	KED
	Kr	**83**		ug/L			57	45	12	Standard
⌈>	**In-1**	**115**		ug/L			10467	10371	1	KED
|	**Cd**	**111**	**0.006**	ug/L	0.007	113	2	4	49	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.002	365	6	5	34	KED
⌈>	**In**	**115**		ug/L			500517	473252	4	Standard
|	**Ag**	**107**	**0.001**	ug/L	0.001	64	34	52	27	Standard
|	**Sb**	**121**	**0.036**	ug/L	0.002	5	300	753	3	Standard
|	**Sb**	**123**	**0.043**	ug/L	0.002	5	219	630	5	Standard
|	**Ba**	**135**	**0.006**	ug/L	0.002	25	15	48	21	Standard
⌊	**Ba**	**137**	**0.008**	ug/L	0.000	1	32	114	5	Standard
⌈>	**Tb**	**159**		ug/L			210378	204493	0	Standard
|	**Tl**	**205**	**0.003**	ug/L	0.000	1	126	301	0	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	6	139	193	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0108-BLK1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 17:20:46
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			35999	55620	1	Standard
>	Sc	45		ug/L			178549	179168	3	Standard
	Cr	52	0.058	ug/L	0.020	34	15792	17167	1	Standard
	Cr	53	0.017	ug/L	0.002	11	166	210	3	Standard
>	Ge	72		ug/L			45167	45879	1	KED
	Ni	60	0.011	ug/L	0.002	13	9	27	7	KED
	Ni	62	0.004	ug/L	0.015	324	1	3	124	KED
	Cu	63	0.042	ug/L	0.002	3	21	215	4	KED
	Cu	65	0.043	ug/L	0.006	13	12	113	10	KED
	Zn	66	0.523	ug/L	0.051	9	32	365	10	KED
	Zn	67	0.530	ug/L	0.178	33	5	60	30	KED
	As	75	-0.003	ug/L	0.005	191	5	4	36	KED
	Se	78	0.069	ug/L	0.137	198	10	12	35	KED
	Kr	83		ug/L			57	45	43	Standard
>	In-1	115		ug/L			10467	10531	3	KED
	Cd	111	0.002	ug/L	0.009	528	2	3	96	KED
	Cd	114	0.001	ug/L	0.005	313	6	7	53	KED
>	In	115		ug/L			500517	492392	1	Standard
	Ag	107	0.001	ug/L	0.000	67	34	41	13	Standard
	Sb	121	0.008	ug/L	0.002	31	300	399	9	Standard
	Sb	123	0.015	ug/L	0.003	22	219	368	9	Standard
	Ba	135	0.120	ug/L	0.002	1	15	720	2	Standard
	Ba	137	0.117	ug/L	0.004	3	32	1336	2	Standard
>	Tb	159		ug/L			210378	207734	1	Standard
	Tl	205	0.001	ug/L	0.000	27	126	199	11	Standard
	Pb	208	0.005	ug/L	0.000	2	139	500	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0108-BS1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 17:25:32
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			35999	60999	1	Standard
>	Sc	45		ug/L			178549	183283	2	Standard
	Cr	52	26.021	ug/L	0.404	1	15792	623128	1	Standard
	Cr	53	25.734	ug/L	0.216	0	166	68091	1	Standard
>	Ge	72		ug/L			45167	45768	0	KED
	Ni	60	27.115	ug/L	0.182	0	9	44608	0	KED
	Ni	62	27.444	ug/L	0.281	1	1	7309	1	KED
	Cu	63	26.904	ug/L	0.469	1	21	124029	1	KED
	Cu	65	27.214	ug/L	0.678	2	12	63340	2	KED
	Zn	66	88.872	ug/L	1.720	1	32	56345	1	KED
	Zn	67	84.109	ug/L	1.495	1	5	8824	2	KED
	As	75	26.101	ug/L	0.244	0	5	8512	0	KED
	Se	78	82.640	ug/L	1.348	1	10	2628	1	KED
	Kr	83		ug/L			57	54	14	Standard
>	In-1	115		ug/L			10467	10343	1	KED
	Cd	111	27.044	ug/L	0.673	2	2	8649	0	KED
	Cd	114	27.240	ug/L	0.847	3	6	22012	1	KED
>	In	115		ug/L			500517	480312	1	Standard
	Ag	107	25.581	ug/L	0.159	0	34	387465	2	Standard
	Sb	121	0.081	ug/L	0.001	1	300	1361	1	Standard
	Sb	123	0.081	ug/L	0.002	1	219	1026	3	Standard
	Ba	135	26.465	ug/L	0.138	0	15	151317	1	Standard
	Ba	137	25.996	ug/L	0.240	0	32	283890	0	Standard
>	Tb	159		ug/L			210378	211272	0	Standard
	Tl	205	26.983	ug/L	0.329	1	126	1699695	1	Standard
	Pb	208	26.809	ug/L	0.418	1	139	2151724	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0293-04RE1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 03, 2023 17:32:37
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			35999	48302	1	Standard
>	Sc	45		ug/L			178549	182083	2	Standard
	Cr	52	0.089	ug/L	0.010	10	15792	18173	2	Standard
	Cr	53	0.098	ug/L	0.010	9	166	425	8	Standard
>	Ge	72		ug/L			45167	47032	1	KED
	Ni	60	0.498	ug/L	0.011	2	9	851	1	KED
	Ni	62	0.568	ug/L	0.045	7	1	157	9	KED
	Cu	63	2.494	ug/L	0.024	0	21	11834	1	KED
	Cu	65	2.498	ug/L	0.082	3	12	5986	2	KED
	Zn	66	52.990	ug/L	1.259	2	32	34535	2	KED
	Zn	67	49.001	ug/L	1.282	2	5	5284	1	KED
	As	75	0.025	ug/L	0.005	18	5	14	10	KED
	Se	78	-0.010	ug/L	0.028	293	10	10	9	KED
	Kr	83		ug/L			57	56	7	Standard
>	In-1	115		ug/L			10467	10823	0	KED
	Cd	111	0.021	ug/L	0.006	28	2	9	20	KED
	Cd	114	0.024	ug/L	0.012	48	6	26	36	KED
>	In	115		ug/L			500517	487335	0	Standard
	Ag	107	0.001	ug/L	0.000	26	34	53	10	Standard
	Sb	121	1.748	ug/L	0.024	1	300	23678	1	Standard
	Sb	123	1.744	ug/L	0.040	2	219	18013	2	Standard
	Ba	135	0.649	ug/L	0.011	1	15	3780	1	Standard
	Ba	137	0.632	ug/L	0.006	0	32	7039	1	Standard
>	Tb	159		ug/L			210378	210678	1	Standard
	Tl	205	0.001	ug/L	0.000	48	126	161	11	Standard
	Pb	208	0.040	ug/L	0.001	2	139	3315	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0305-01
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 03, 2023 17:37:23
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			35999	209834	1	Standard
>	Sc	45		ug/L			178549	198080	0	Standard
	Cr	52	5.715	ug/L	0.134	2	15792	161614	2	Standard
	Cr	53	5.594	ug/L	0.059	1	166	16143	1	Standard
>	Ge	72		ug/L			45167	46723	1	KED
	Ni	60	0.354	ug/L	0.022	6	9	603	5	KED
	Ni	62	0.364	ug/L	0.037	10	1	100	9	KED
	Cu	63	1.800	ug/L	0.011	0	21	8490	1	KED
	Cu	65	1.800	ug/L	0.052	2	12	4289	3	KED
	Zn	66	379.325	ug/L	4.916	1	32	245407	0	KED
	Zn	67	350.250	ug/L	8.143	2	5	37492	1	KED
	As	75	0.019	ug/L	0.008	43	5	11	24	KED
	Se	78	0.025	ug/L	0.035	142	10	11	8	KED
	Kr	83		ug/L			57	56	8	Standard
>	In-1	115		ug/L			10467	10958	0	KED
	Cd	111	0.882	ug/L	0.042	4	2	301	4	KED
	Cd	114	0.883	ug/L	0.029	3	6	762	2	KED
>	In	115		ug/L			500517	481677	0	Standard
	Ag	107	0.002	ug/L	0.001	45	34	62	20	Standard
	Sb	121	0.060	ug/L	0.003	4	300	1081	2	Standard
	Sb	123	0.063	ug/L	0.003	4	219	843	2	Standard
	Ba	135	4.721	ug/L	0.099	2	15	27080	1	Standard
	Ba	137	4.708	ug/L	0.052	1	32	51588	1	Standard
>	Tb	159		ug/L			210378	210910	0	Standard
	Tl	205	-0.000	ug/L	0.000	213	126	123	5	Standard
	Pb	208	0.078	ug/L	0.001	1	139	6425	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0473-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Wednesday, May 03, 2023 17:42:43
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			35999	64017	0	Standard
>	Sc	45		ug/L			178549	193857	4	Standard
	Cr	52	0.209	ug/L	0.033	15	15792	22289	4	Standard
	Cr	53	0.234	ug/L	0.014	6	166	834	5	Standard
>	Ge	72		ug/L			45167	44278	4	KED
	Ni	60	0.247	ug/L	0.024	9	9	402	7	KED
	Ni	62	0.311	ug/L	0.087	28	1	81	24	KED
	Cu	63	3.096	ug/L	0.159	5	21	13806	1	KED
	Cu	65	3.096	ug/L	0.081	2	12	6978	2	KED
	Zn	66	285.878	ug/L	11.091	3	32	175106	1	KED
	Zn	67	267.365	ug/L	6.915	2	5	27108	1	KED
	As	75	0.350	ug/L	0.041	11	5	115	8	KED
	Se	78	0.013	ug/L	0.045	337	10	10	9	KED
	Kr	83		ug/L			57	50	27	Standard
>	In-1	115		ug/L			10467	10921	0	KED
	Cd	111	0.624	ug/L	0.032	5	2	213	4	KED
	Cd	114	0.589	ug/L	0.023	3	6	509	3	KED
>	In	115		ug/L			500517	491035	2	Standard
	Ag	107	0.003	ug/L	0.000	17	34	74	6	Standard
	Sb	121	0.713	ug/L	0.028	3	300	9901	2	Standard
	Sb	123	0.756	ug/L	0.030	3	219	7979	1	Standard
	Ba	135	7.872	ug/L	0.153	1	15	46011	1	Standard
	Ba	137	7.728	ug/L	0.197	2	32	86276	1	Standard
>	Tb	159		ug/L			210378	207491	2	Standard
	Tl	205	0.002	ug/L	0.000	29	126	217	10	Standard
	Pb	208	0.165	ug/L	0.005	3	139	13106	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0593-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Wednesday, May 03, 2023 17:49:32
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			35999	60633	1	Standard
>	Sc	45		ug/L			178549	190243	2	Standard
	Cr	52	3.426	ug/L	0.008	0	15792	99803	2	Standard
	Cr	53	3.568	ug/L	0.039	1	166	9952	3	Standard
>	Ge	72		ug/L			45167	39958	1	KED
	Ni	60	0.607	ug/L	0.006	0	9	880	1	KED
	Ni	62	0.591	ug/L	0.050	8	1	139	8	KED
	Cu	63	5.475	ug/L	0.037	0	21	22053	1	KED
	Cu	65	5.491	ug/L	0.105	1	12	11164	0	KED
	Zn	66	3.260	ug/L	0.096	2	32	1832	3	KED
	Zn	67	2.975	ug/L	0.083	2	5	276	1	KED
	As	75	0.046	ug/L	0.007	15	5	17	11	KED
	Se	78	0.100	ug/L	0.041	40	10	11	8	KED
	Kr	83		ug/L			57	60	20	Standard
>	In-1	115		ug/L			10467	9273	1	KED
	Cd	111	0.019	ug/L	0.007	35	2	7	25	KED
	Cd	114	0.004	ug/L	0.008	189	6	8	69	KED
>	In	115		ug/L			500517	479864	0	Standard
	Ag	107	0.000	ug/L	0.001	147	34	39	24	Standard
	Sb	121	0.136	ug/L	0.005	3	300	2081	4	Standard
	Sb	123	0.137	ug/L	0.012	9	219	1584	7	Standard
	Ba	135	0.579	ug/L	0.015	2	15	3321	3	Standard
	Ba	137	0.582	ug/L	0.012	2	32	6380	2	Standard
>	Tb	159		ug/L			210378	202960	1	Standard
	Tl	205	0.003	ug/L	0.000	15	126	302	8	Standard
	Pb	208	0.011	ug/L	0.001	4	139	998	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0593-02
Sample Dil Factor: 2
Comments:
Sample Date/Time: Wednesday, May 03, 2023 17:54:12
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			35999	56890	1	Standard
>	Sc	45		ug/L			178549	179795	13	Standard
	Cr	52	5.504	ug/L	0.700	12	15792	140470	2	Standard
	Cr	53	5.601	ug/L	0.757	13	166	14500	0	Standard
>	Ge	72		ug/L			45167	38902	1	KED
	Ni	60	0.434	ug/L	0.017	3	9	615	3	KED
	Ni	62	0.461	ug/L	0.033	7	1	106	7	KED
	Cu	63	4.501	ug/L	0.028	0	21	17654	0	KED
	Cu	65	4.394	ug/L	0.058	1	12	8702	1	KED
	Zn	66	3.438	ug/L	0.071	2	32	1880	2	KED
	Zn	67	2.984	ug/L	0.305	10	5	270	11	KED
	As	75	0.039	ug/L	0.010	24	5	15	18	KED
	Se	78	0.019	ug/L	0.065	343	10	9	19	KED
	Kr	83		ug/L			57	53	14	Standard
>	In-1	115		ug/L			10467	9047	2	KED
	Cd	111	0.017	ug/L	0.011	62	2	6	41	KED
	Cd	114	0.005	ug/L	0.005	96	6	9	41	KED
>	In	115		ug/L			500517	460513	13	Standard
	Ag	107	0.000	ug/L	0.001	218	34	36	23	Standard
	Sb	121	0.126	ug/L	0.023	18	300	1842	1	Standard
	Sb	123	0.128	ug/L	0.035	27	219	1404	8	Standard
	Ba	135	0.597	ug/L	0.085	14	15	3244	0	Standard
	Ba	137	0.557	ug/L	0.077	13	32	5784	2	Standard
>	Tb	159		ug/L			210378	188344	11	Standard
	Tl	205	0.003	ug/L	0.001	27	126	286	4	Standard
	Pb	208	0.011	ug/L	0.003	24	139	909	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0593-03
Sample Dil Factor: 2
Comments:
Sample Date/Time: Wednesday, May 03, 2023 17:58:53
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			35999	54224	1	Standard
>	Sc	45		ug/L			178549	189337	1	Standard
	Cr	52	17.898	ug/L	0.353	1	15792	448157	3	Standard
	Cr	53	18.212	ug/L	0.261	1	166	49838	1	Standard
>	Ge	72		ug/L			45167	38672	1	KED
	Ni	60	0.486	ug/L	0.037	7	9	683	7	KED
	Ni	62	0.586	ug/L	0.121	20	1	133	19	KED
	Cu	63	4.248	ug/L	0.059	1	21	16563	0	KED
	Cu	65	4.234	ug/L	0.048	1	12	8335	0	KED
	Zn	66	4.626	ug/L	0.256	5	32	2503	4	KED
	Zn	67	4.518	ug/L	0.470	10	5	404	9	KED
	As	75	0.043	ug/L	0.011	25	5	16	19	KED
	Se	78	-0.008	ug/L	0.136	1603	10	8	42	KED
	Kr	83		ug/L			57	60	10	Standard
>	In-1	115		ug/L			10467	8875	1	KED
	Cd	111	0.018	ug/L	0.002	13	2	6	7	KED
	Cd	114	0.008	ug/L	0.005	57	6	10	32	KED
>	In	115		ug/L			500517	477114	0	Standard
	Ag	107	0.000	ug/L	0.001	141	34	38	22	Standard
	Sb	121	0.136	ug/L	0.009	6	300	2074	6	Standard
	Sb	123	0.144	ug/L	0.008	5	219	1652	5	Standard
	Ba	135	0.655	ug/L	0.007	1	15	3732	0	Standard
	Ba	137	0.619	ug/L	0.015	2	32	6740	2	Standard
>	Tb	159		ug/L			210378	199952	0	Standard
	Tl	205	0.002	ug/L	0.000	16	126	257	9	Standard
	Pb	208	0.024	ug/L	0.001	5	139	1941	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0593-04
Sample Dil Factor: 2
Comments:
Sample Date/Time: Wednesday, May 03, 2023 18:05:03
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			35999	53651	1	Standard
>	Sc	45		ug/L			178549	185763	1	Standard
	Cr	52	7.793	ug/L	0.163	2	15792	200641	0	Standard
	Cr	53	7.873	ug/L	0.186	2	166	21234	2	Standard
>	Ge	72		ug/L			45167	38295	1	KED
	Ni	60	0.437	ug/L	0.015	3	9	609	3	KED
	Ni	62	0.420	ug/L	0.037	8	1	95	8	KED
	Cu	63	4.218	ug/L	0.059	1	21	16283	0	KED
	Cu	65	4.163	ug/L	0.080	1	12	8114	0	KED
	Zn	66	5.723	ug/L	0.163	2	32	3061	1	KED
	Zn	67	5.392	ug/L	0.708	13	5	476	11	KED
	As	75	0.038	ug/L	0.021	54	5	14	36	KED
	Se	78	0.143	ug/L	0.159	111	10	12	34	KED
	Kr	83		ug/L			57	61	12	Standard
>	In-1	115		ug/L			10467	9036	2	KED
	Cd	111	0.011	ug/L	0.007	60	2	5	36	KED
	Cd	114	-0.001	ug/L	0.006	508	6	4	93	KED
>	In	115		ug/L			500517	469092	2	Standard
	Ag	107	0.000	ug/L	0.000	20	34	38	5	Standard
	Sb	121	0.169	ug/L	0.007	3	300	2461	1	Standard
	Sb	123	0.168	ug/L	0.004	2	219	1853	1	Standard
	Ba	135	0.655	ug/L	0.018	2	15	3669	2	Standard
	Ba	137	0.623	ug/L	0.016	2	32	6670	0	Standard
>	Tb	159		ug/L			210378	197252	0	Standard
	Tl	205	0.002	ug/L	0.000	20	126	244	11	Standard
	Pb	208	0.015	ug/L	0.001	6	139	1269	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL5
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 18:09:43
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35999	42095	1	Standard
⌈>	**Sc**	**45**		ug/L			178549	171295	1	Standard
|	**Cr**	**52**	**0.269**	ug/L	0.017	6	15792	21010	1	Standard
⌊	**Cr**	**53**	**0.031**	ug/L	0.010	31	166	237	12	Standard
⌈>	**Ge**	**72**		ug/L			45167	43748	1	KED
|	**Ni**	**60**	**-0.001**	ug/L	0.001	96	9	8	13	KED
|	**Ni**	**62**	**0.008**	ug/L	0.007	94	1	3	50	KED
|	**Cu**	**63**	**0.003**	ug/L	0.003	88	21	35	36	KED
|	**Cu**	**65**	**0.003**	ug/L	0.002	68	12	18	21	KED
|	**Zn**	**66**	**0.030**	ug/L	0.025	85	32	49	32	KED
|	**Zn**	**67**	**0.046**	ug/L	0.019	42	5	9	20	KED
|	**As**	**75**	**-0.008**	ug/L	0.003	40	5	2	33	KED
⌊	**Se**	**78**	**-0.031**	ug/L	0.046	146	10	9	17	KED
	Kr	**83**		ug/L			57	49	23	Standard
⌈>	**In-1**	**115**		ug/L			10467	9465	4	KED
|	**Cd**	**111**	**0.008**	ug/L	0.003	31	2	4	20	KED
⌊	**Cd**	**114**	**-0.004**	ug/L	0.002	36	6	2	49	KED
⌈>	**In**	**115**		ug/L			500517	475911	3	Standard
|	**Ag**	**107**	**-0.001**	ug/L	0.000	10	34	15	12	Standard
|	**Sb**	**121**	**-0.018**	ug/L	0.000	1	300	52	9	Standard
|	**Sb**	**123**	**-0.017**	ug/L	0.001	7	219	40	32	Standard
|	**Ba**	**135**	**0.001**	ug/L	0.001	49	15	22	16	Standard
⌊	**Ba**	**137**	**0.000**	ug/L	0.000	171	32	33	17	Standard
⌈>	**Tb**	**159**		ug/L			210378	195299	2	Standard
|	**Tl**	**205**	**-0.001**	ug/L	0.000	42	126	80	19	Standard
⌊	**Pb**	**208**	**0.003**	ug/L	0.000	13	139	323	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV5
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 18:14:30
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35999	39514	1	Standard
⎡>	**Sc**	**45**		ug/L			178549	175040	2	Standard
⎢	**Cr**	**52**	**48.811**	ug/L	0.835	1	15792	1103138	3	Standard
⎣	**Cr**	**53**	**49.099**	ug/L	0.457	0	166	123926	1	Standard
⎡>	**Ge**	**72**		ug/L			45167	42433	1	KED
⎢	**Ni**	**60**	**51.150**	ug/L	1.162	2	9	77995	1	KED
⎢	**Ni**	**62**	**50.806**	ug/L	0.297	0	1	12543	2	KED
⎢	**Cu**	**63**	**50.422**	ug/L	0.565	1	21	215481	0	KED
⎢	**Cu**	**65**	**50.910**	ug/L	1.127	2	12	109828	0	KED
⎢	**Zn**	**66**	**51.694**	ug/L	0.628	1	32	30397	0	KED
⎢	**Zn**	**67**	**51.233**	ug/L	1.393	2	5	4984	1	KED
⎢	**As**	**75**	**49.039**	ug/L	0.831	1	5	14820	0	KED
⎣	**Se**	**78**	**50.650**	ug/L	1.693	3	10	1497	2	KED
	Kr	**83**		ug/L			57	50	13	Standard
⎡>	**In-1**	**115**		ug/L			10467	9560	2	KED
⎢	**Cd**	**111**	**52.555**	ug/L	1.902	3	2	15530	1	KED
⎣	**Cd**	**114**	**52.661**	ug/L	2.036	3	6	39314	1	KED
⎡>	**In**	**115**		ug/L			500517	483583	3	Standard
⎢	**Ag**	**107**	**47.154**	ug/L	1.098	2	34	719013	4	Standard
⎢	**Sb**	**121**	**50.796**	ug/L	1.331	2	300	674289	1	Standard
⎢	**Sb**	**123**	**51.439**	ug/L	2.049	3	219	520620	0	Standard
⎢	**Ba**	**135**	**49.341**	ug/L	1.069	2	15	283904	1	Standard
⎣	**Ba**	**137**	**47.577**	ug/L	0.692	1	32	522962	1	Standard
⎡>	**Tb**	**159**		ug/L			210378	206254	1	Standard
⎢	**Tl**	**205**	**51.911**	ug/L	0.924	1	126	3191848	1	Standard
⎣	**Pb**	**208**	**51.340**	ug/L	0.293	0	139	4022669	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB5
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 18:22:01
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35999	36389	0	Standard
⌈>	**Sc**	**45**		ug/L			178549	167587	3	Standard
|	**Cr**	**52**	**0.020**	ug/L	0.020	100	15792	15246	1	Standard
⌊	**Cr**	**53**	**-0.007**	ug/L	0.004	62	166	139	3	Standard
⌈>	**Ge**	**72**		ug/L			45167	44195	0	KED
|	**Ni**	**60**	**0.003**	ug/L	0.004	165	9	13	49	KED
|	**Ni**	**62**	**0.012**	ug/L	0.023	180	1	5	114	KED
|	**Cu**	**63**	**0.001**	ug/L	0.002	303	21	23	30	KED
|	**Cu**	**65**	**-0.003**	ug/L	0.002	78	12	6	75	KED
|	**Zn**	**66**	**-0.006**	ug/L	0.002	25	32	27	3	KED
|	**Zn**	**67**	**-0.005**	ug/L	0.044	869	5	4	98	KED
|	**As**	**75**	**-0.005**	ug/L	0.005	94	5	3	41	KED
⌊	**Se**	**78**	**0.032**	ug/L	0.042	131	10	11	12	KED
	Kr	**83**		ug/L			57	47	24	Standard
⌈>	**In-1**	**115**		ug/L			10467	10378	1	KED
|	**Cd**	**111**	**0.002**	ug/L	0.005	223	2	3	45	KED
⌊	**Cd**	**114**	**-0.005**	ug/L	0.001	30	6	2	46	KED
⌈>	**In**	**115**		ug/L			500517	470383	5	Standard
|	**Ag**	**107**	**0.001**	ug/L	0.001	105	34	47	30	Standard
|	**Sb**	**121**	**0.037**	ug/L	0.005	13	300	753	4	Standard
|	**Sb**	**123**	**0.035**	ug/L	0.007	19	219	554	9	Standard
|	**Ba**	**135**	**0.037**	ug/L	0.001	2	15	222	4	Standard
⌊	**Ba**	**137**	**0.043**	ug/L	0.003	6	32	486	9	Standard
⌈>	**Tb**	**159**		ug/L			210378	199061	0	Standard
|	**Tl**	**205**	**0.002**	ug/L	0.000	18	126	229	8	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	35	139	215	13	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0452-PS2
Sample Dil Factor: 100
Comments:
Sample Date/Time: Wednesday, May 03, 2023 18:29:36
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			35999	49765	0	Standard
>	Sc	45		ug/L			178549	202227	2	Standard
	Cr	52	24.349	ug/L	0.503	2	15792	644485	0	Standard
	Cr	53	24.693	ug/L	0.544	2	166	72091	1	Standard
>	Ge	72		ug/L			45167	46606	0	KED
	Ni	60	28.978	ug/L	0.351	1	9	48544	0	KED
	Ni	62	29.017	ug/L	0.451	1	1	7868	1	KED
	Cu	63	33.114	ug/L	0.262	0	21	155454	1	KED
	Cu	65	33.149	ug/L	0.194	0	12	78566	0	KED
	Zn	66	117.023	ug/L	0.769	0	32	75545	0	KED
	Zn	67	112.371	ug/L	1.529	1	5	12004	1	KED
	As	75	26.850	ug/L	0.418	1	5	8916	1	KED
	Se	78	79.649	ug/L	1.529	1	10	2580	2	KED
	Kr	83		ug/L			57	69	11	Standard
>	In-1	115		ug/L			10467	10685	2	KED
	Cd	111	25.203	ug/L	0.433	1	2	8327	1	KED
	Cd	114	25.605	ug/L	0.614	2	6	21374	1	KED
>	In	115		ug/L			500517	481855	1	Standard
	Ag	107	24.882	ug/L	0.409	1	34	378004	0	Standard
	Sb	121	0.076	ug/L	0.004	5	300	1293	4	Standard
	Sb	123	0.083	ug/L	0.002	2	219	1048	2	Standard
	Ba	135	29.457	ug/L	0.590	2	15	168954	1	Standard
	Ba	137	29.220	ug/L	0.587	2	32	320112	1	Standard
>	Tb	159		ug/L			210378	214070	3	Standard
	Tl	205	25.031	ug/L	0.409	1	126	1597001	1	Standard
	Pb	208	28.702	ug/L	1.233	4	139	2331964	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0072-01
Sample Dil Factor: 100
Comments:
Sample Date/Time: Wednesday, May 03, 2023 18:34:22
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			35999	82339	1	Standard
>	Sc	45		ug/L			178549	177927	2	Standard
	Cr	52	1.371	ug/L	0.060	4	15792	46775	1	Standard
	Cr	53	1.345	ug/L	0.022	1	166	3612	3	Standard
>	Ge	72		ug/L			45167	45399	0	KED
	Ni	60	0.168	ug/L	0.004	2	9	283	2	KED
	Ni	62	0.178	ug/L	0.048	26	1	48	25	KED
	Cu	63	1.149	ug/L	0.039	3	21	5273	3	KED
	Cu	65	1.113	ug/L	0.047	4	12	2581	3	KED
	Zn	66	75.166	ug/L	1.312	1	32	47281	1	KED
	Zn	67	70.862	ug/L	1.136	1	5	7375	1	KED
	As	75	-0.002	ug/L	0.007	470	5	4	48	KED
	Se	78	0.054	ug/L	0.044	82	10	12	11	KED
	Kr	83		ug/L			57	46	12	Standard
>	In-1	115		ug/L			10467	10467	0	KED
	Cd	111	0.204	ug/L	0.033	16	2	68	16	KED
	Cd	114	0.200	ug/L	0.019	9	6	169	9	KED
>	In	115		ug/L			500517	478868	2	Standard
	Ag	107	0.005	ug/L	0.004	76	34	102	53	Standard
	Sb	121	0.003	ug/L	0.001	25	300	330	2	Standard
	Sb	123	0.006	ug/L	0.001	24	219	272	7	Standard
	Ba	135	0.959	ug/L	0.019	2	15	5479	0	Standard
	Ba	137	0.948	ug/L	0.025	2	32	10348	2	Standard
>	Tb	159		ug/L			210378	207692	1	Standard
	Tl	205	0.003	ug/L	0.004	167	126	285	94	Standard
	Pb	208	0.027	ug/L	0.005	19	139	2273	19	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0305-01RE1
Sample Dil Factor: 100
Comments:
Sample Date/Time: Wednesday, May 03, 2023 18:39:07
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35999	74362	1	Standard
⌈>	**Sc**	**45**		ug/L			178549	175896	1	Standard
|	**Cr**	**52**	**1.265**	ug/L	0.009	0	15792	43889	1	Standard
⌊	**Cr**	**53**	**1.166**	ug/L	0.057	4	166	3118	5	Standard
⌈>	**Ge**	**72**		ug/L			45167	45411	1	KED
|	**Ni**	**60**	**0.081**	ug/L	0.007	8	9	141	8	KED
|	**Ni**	**62**	**0.077**	ug/L	0.035	44	1	22	39	KED
|	**Cu**	**63**	**0.364**	ug/L	0.009	2	21	1685	2	KED
|	**Cu**	**65**	**0.351**	ug/L	0.015	4	12	824	3	KED
|	**Zn**	**66**	**75.130**	ug/L	1.058	1	32	47263	0	KED
|	**Zn**	**67**	**70.490**	ug/L	3.270	4	5	7335	3	KED
|	**As**	**75**	**0.000**	ug/L	0.001	166	5	5	4	KED
⌊	**Se**	**78**	**0.071**	ug/L	0.145	203	10	12	34	KED
	Kr	**83**		ug/L			57	46	16	Standard
⌈>	**In-1**	**115**		ug/L			10467	10255	0	KED
|	**Cd**	**111**	**0.210**	ug/L	0.003	1	2	69	2	KED
⌊	**Cd**	**114**	**0.189**	ug/L	0.015	7	6	157	7	KED
⌈>	**In**	**115**		ug/L			500517	476241	0	Standard
|	**Ag**	**107**	**0.000**	ug/L	0.001	177	34	37	22	Standard
|	**Sb**	**121**	**0.001**	ug/L	0.001	41	300	303	1	Standard
|	**Sb**	**123**	**0.001**	ug/L	0.004	257	219	224	17	Standard
|	**Ba**	**135**	**0.954**	ug/L	0.018	1	15	5425	2	Standard
⌊	**Ba**	**137**	**0.937**	ug/L	0.009	0	32	10171	0	Standard
⌈>	**Tb**	**159**		ug/L			210378	204652	2	Standard
|	**Tl**	**205**	**-0.000**	ug/L	0.000	460	126	119	16	Standard
⌊	**Pb**	**208**	**0.020**	ug/L	0.001	3	139	1689	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0473-01RE1
Sample Dil Factor: 10
Comments:
Sample Date/Time: Wednesday, May 03, 2023 18:43:53
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35999	46776	2	Standard
>	**Sc**	**45**		ug/L			178549	172664	6	Standard
	Cr	**52**	**0.080**	ug/L	0.040	50	15792	16983	1	Standard
	Cr	**53**	**0.041**	ug/L	0.004	9	166	263	3	Standard
>	**Ge**	**72**		ug/L			45167	45642	0	KED
	Ni	**60**	**0.046**	ug/L	0.008	16	9	84	15	KED
	Ni	**62**	**0.031**	ug/L	0.017	53	1	10	43	KED
	Cu	**63**	**0.578**	ug/L	0.005	0	21	2680	0	KED
	Cu	**65**	**0.568**	ug/L	0.025	4	12	1330	4	KED
	Zn	**66**	**56.041**	ug/L	1.109	1	32	35448	2	KED
	Zn	**67**	**52.427**	ug/L	1.517	2	5	5487	2	KED
	As	**75**	**0.064**	ug/L	0.011	17	5	26	13	KED
	Se	**78**	**0.059**	ug/L	0.145	245	10	12	37	KED
	Kr	**83**		ug/L			57	45	10	Standard
>	**In-1**	**115**		ug/L			10467	10450	2	KED
	Cd	**111**	**0.110**	ug/L	0.003	2	2	38	4	KED
	Cd	**114**	**0.121**	ug/L	0.009	7	6	105	9	KED
>	**In**	**115**		ug/L			500517	463748	1	Standard
	Ag	**107**	**-0.000**	ug/L	0.000	349	34	31	9	Standard
	Sb	**121**	**0.137**	ug/L	0.003	1	300	2024	0	Standard
	Sb	**123**	**0.138**	ug/L	0.009	6	219	1545	6	Standard
	Ba	**135**	**1.584**	ug/L	0.086	5	15	8751	3	Standard
	Ba	**137**	**1.598**	ug/L	0.051	3	32	16874	2	Standard
>	**Tb**	**159**		ug/L			210378	205155	3	Standard
	Tl	**205**	**-0.000**	ug/L	0.000	226	126	117	7	Standard
	Pb	**208**	**0.036**	ug/L	0.003	7	139	2900	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0101-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Wednesday, May 03, 2023 18:49:05
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			35999	1204689	1	Standard
>	Sc	45		ug/L			178549	174274	1	Standard
	Cr	52	2.742	ug/L	0.057	2	15792	76244	2	Standard
	Cr	53	0.823	ug/L	0.019	2	166	2228	4	Standard
>	Ge	72		ug/L			45167	37246	1	KED
	Ni	60	20.621	ug/L	0.368	1	9	27606	0	KED
	Ni	62	20.346	ug/L	0.886	4	1	4408	3	KED
	Cu	63	0.962	ug/L	0.017	1	21	3625	1	KED
	Cu	65	0.961	ug/L	0.040	4	12	1829	3	KED
	Zn	66	10.605	ug/L	0.256	2	32	5495	1	KED
	Zn	67	11.012	ug/L	0.605	5	5	943	4	KED
	As	75	0.069	ug/L	0.015	21	5	22	16	KED
	Se	78	0.013	ug/L	0.049	370	10	8	15	KED
	Kr	83		ug/L			57	63	15	Standard
>	In-1	115		ug/L			10467	8710	1	KED
	Cd	111	0.032	ug/L	0.015	47	2	10	36	KED
	Cd	114	0.014	ug/L	0.007	51	6	14	32	KED
>	In	115		ug/L			500517	435396	3	Standard
	Ag	107	-0.000	ug/L	0.001	939	34	27	52	Standard
	Sb	121	0.096	ug/L	0.009	9	300	1405	10	Standard
	Sb	123	0.098	ug/L	0.006	6	219	1084	3	Standard
	Ba	135	24.089	ug/L	0.905	3	15	124742	0	Standard
	Ba	137	23.024	ug/L	0.741	3	32	227765	0	Standard
>	Tb	159		ug/L			210378	191898	0	Standard
	Tl	205	-0.001	ug/L	0.000	28	126	74	15	Standard
	Pb	208	0.095	ug/L	0.001	0	139	7028	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0479-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Wednesday, May 03, 2023 18:53:53
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			35999	1378012	2	Standard
>	Sc	45		ug/L			178549	171016	4	Standard
	Cr	52	3.237	ug/L	0.113	3	15792	85532	2	Standard
	Cr	53	0.932	ug/L	0.029	3	166	2452	2	Standard
>	Ge	72		ug/L			45167	35699	0	KED
	Ni	60	22.525	ug/L	0.357	1	9	28907	1	KED
	Ni	62	22.338	ug/L	0.236	1	1	4640	1	KED
	Cu	63	4.694	ug/L	0.056	1	21	16893	1	KED
	Cu	65	4.773	ug/L	0.068	1	12	8673	1	KED
	Zn	66	5.529	ug/L	0.079	1	32	2758	1	KED
	Zn	67	6.269	ug/L	0.367	5	5	516	5	KED
	As	75	0.073	ug/L	0.005	6	5	22	5	KED
	Se	78	0.151	ug/L	0.029	18	10	11	5	KED
	Kr	83		ug/L			57	66	22	Standard
>	In-1	115		ug/L			10467	8562	1	KED
	Cd	111	0.074	ug/L	0.009	11	2	21	11	KED
	Cd	114	0.068	ug/L	0.015	21	6	50	19	KED
>	In	115		ug/L			500517	448787	0	Standard
	Ag	107	-0.000	ug/L	0.000	65	34	24	15	Standard
	Sb	121	0.097	ug/L	0.005	5	300	1463	3	Standard
	Sb	123	0.107	ug/L	0.007	6	219	1198	5	Standard
	Ba	135	22.888	ug/L	0.370	1	15	122276	1	Standard
	Ba	137	21.449	ug/L	0.520	2	32	218872	2	Standard
>	Tb	159		ug/L			210378	196157	1	Standard
	Tl	205	-0.001	ug/L	0.000	6	126	72	2	Standard
	Pb	208	0.150	ug/L	0.001	0	139	11327	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0679-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Wednesday, May 03, 2023 18:59:41
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			35999	78796	2	Standard
⌈>	Sc	45		ug/L			178549	180049	2	Standard
|	Cr	52	6.500	ug/L	0.110	1	15792	164866	0	Standard
⌊	Cr	53	6.610	ug/L	0.141	2	166	17303	0	Standard
⌈>	Ge	72		ug/L			45167	38598	0	KED
|	Ni	60	0.616	ug/L	0.037	5	9	862	6	KED
|	Ni	62	0.572	ug/L	0.040	7	1	130	6	KED
|	Cu	63	5.814	ug/L	0.062	1	21	22617	0	KED
|	Cu	65	5.695	ug/L	0.117	2	12	11187	1	KED
|	Zn	66	4.482	ug/L	0.062	1	32	2423	1	KED
|	Zn	67	4.207	ug/L	0.554	13	5	376	13	KED
|	As	75	0.040	ug/L	0.008	18	5	15	12	KED
⌊	Se	78	0.086	ug/L	0.129	149	10	11	30	KED
	Kr	83		ug/L			57	57	11	Standard
⌈>	In-1	115		ug/L			10467	8759	2	KED
|	Cd	111	0.006	ug/L	0.012	192	2	3	86	KED
⌊	Cd	114	0.000	ug/L	0.000	113	6	5	1	KED
⌈>	In	115		ug/L			500517	448767	1	Standard
|	Ag	107	0.000	ug/L	0.000	120	34	34	11	Standard
|	Sb	121	0.153	ug/L	0.009	5	300	2153	5	Standard
|	Sb	123	0.154	ug/L	0.001	0	219	1642	1	Standard
|	Ba	135	0.712	ug/L	0.022	3	15	3815	2	Standard
⌊	Ba	137	0.691	ug/L	0.022	3	32	7076	1	Standard
⌈>	Tb	159		ug/L			210378	198034	0	Standard
|	Tl	205	0.002	ug/L	0.001	21	126	260	12	Standard
⌊	Pb	208	0.014	ug/L	0.000	3	139	1152	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0679-02
Sample Dil Factor: 2
Comments:
Sample Date/Time: Wednesday, May 03, 2023 19:05:24
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			35999	140732	1	Standard
>	Sc	45		ug/L			178549	185509	2	Standard
	Cr	52	7.862	ug/L	0.060	0	15792	202034	1	Standard
	Cr	53	8.029	ug/L	0.090	1	166	21622	1	Standard
>	Ge	72		ug/L			45167	37724	0	KED
	Ni	60	0.745	ug/L	0.025	3	9	1018	4	KED
	Ni	62	0.759	ug/L	0.109	14	1	168	14	KED
	Cu	63	6.002	ug/L	0.037	0	21	22819	0	KED
	Cu	65	5.880	ug/L	0.170	2	12	11288	2	KED
	Zn	66	4.596	ug/L	0.117	2	32	2428	3	KED
	Zn	67	4.395	ug/L	0.494	11	5	384	11	KED
	As	75	0.089	ug/L	0.028	31	5	28	26	KED
	Se	78	0.082	ug/L	0.014	17	10	10	3	KED
	Kr	83		ug/L			57	45	31	Standard
>	In-1	115		ug/L			10467	8639	1	KED
	Cd	111	0.100	ug/L	0.017	16	2	28	16	KED
	Cd	114	0.097	ug/L	0.016	16	6	70	14	KED
>	In	115		ug/L			500517	458262	2	Standard
	Ag	107	0.000	ug/L	0.000	689	34	32	21	Standard
	Sb	121	0.145	ug/L	0.002	1	300	2101	1	Standard
	Sb	123	0.159	ug/L	0.004	2	219	1722	2	Standard
	Ba	135	0.585	ug/L	0.012	2	15	3206	4	Standard
	Ba	137	0.582	ug/L	0.012	2	32	6092	1	Standard
>	Tb	159		ug/L			210378	194274	1	Standard
	Tl	205	0.003	ug/L	0.000	10	126	285	6	Standard
	Pb	208	0.016	ug/L	0.001	5	139	1323	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0679-03
Sample Dil Factor: 2
Comments:
Sample Date/Time: Wednesday, May 03, 2023 19:10:33
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			35999	150717	1	Standard
⌈>	Sc	45		ug/L			178549	180540	3	Standard
|	Cr	52	5.727	ug/L	0.101	1	15792	147544	2	Standard
⌊	Cr	53	5.779	ug/L	0.124	2	166	15189	2	Standard
⌈>	Ge	72		ug/L			45167	36646	0	KED
|	Ni	60	0.703	ug/L	0.009	1	9	933	1	KED
|	Ni	62	0.752	ug/L	0.042	5	1	161	6	KED
|	Cu	63	3.733	ug/L	0.076	2	21	13797	2	KED
|	Cu	65	3.772	ug/L	0.075	1	12	7038	2	KED
|	Zn	66	3.245	ug/L	0.056	1	32	1672	0	KED
|	Zn	67	3.037	ug/L	0.237	7	5	259	7	KED
|	As	75	0.100	ug/L	0.027	27	5	30	23	KED
⌊	Se	78	0.189	ug/L	0.015	7	10	13	3	KED
	Kr	83		ug/L			57	50	5	Standard
⌈>	In-1	115		ug/L			10467	8382	1	KED
|	Cd	111	1.341	ug/L	0.021	1	2	349	1	KED
⌊	Cd	114	1.293	ug/L	0.019	1	6	851	2	KED
⌈>	In	115		ug/L			500517	442449	3	Standard
|	Ag	107	0.001	ug/L	0.001	90	34	43	28	Standard
|	Sb	121	0.133	ug/L	0.001	1	300	1876	2	Standard
|	Sb	123	0.131	ug/L	0.010	7	219	1409	3	Standard
|	Ba	135	0.574	ug/L	0.016	2	15	3033	1	Standard
⌊	Ba	137	0.543	ug/L	0.011	2	32	5493	1	Standard
⌈>	Tb	159		ug/L			210378	191636	2	Standard
|	Tl	205	0.003	ug/L	0.000	15	126	286	11	Standard
⌊	Pb	208	0.017	ug/L	0.000	1	139	1345	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL6
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 19:15:21
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35999	42534	2	Standard
⌈>	**Sc**	**45**		ug/L			178549	165060	3	Standard
|	**Cr**	**52**	**0.273**	ug/L	0.013	4	15792	20330	2	Standard
⌊	**Cr**	**53**	**0.021**	ug/L	0.006	29	166	204	4	Standard
⌈>	**Ge**	**72**		ug/L			45167	41063	1	KED
|	**Ni**	**60**	**0.003**	ug/L	0.008	301	9	12	95	KED
|	**Ni**	**62**	**0.011**	ug/L	0.012	109	1	4	65	KED
|	**Cu**	**63**	**0.002**	ug/L	0.003	168	21	26	40	KED
|	**Cu**	**65**	**0.002**	ug/L	0.001	22	12	16	6	KED
|	**Zn**	**66**	**0.025**	ug/L	0.009	36	32	43	13	KED
|	**Zn**	**67**	**0.039**	ug/L	0.010	26	5	8	13	KED
|	**As**	**75**	**-0.005**	ug/L	0.003	57	5	3	28	KED
⌊	**Se**	**78**	**0.055**	ug/L	0.045	81	10	10	10	KED
	Kr	**83**		ug/L			57	45	18	Standard
⌈>	**In-1**	**115**		ug/L			10467	9338	0	KED
|	**Cd**	**111**	**0.012**	ug/L	0.003	26	2	5	16	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.002	100	6	4	25	KED
⌈>	**In**	**115**		ug/L			500517	464850	2	Standard
|	**Ag**	**107**	**-0.001**	ug/L	0.000	44	34	21	22	Standard
|	**Sb**	**121**	**-0.018**	ug/L	0.000	2	300	43	13	Standard
|	**Sb**	**123**	**-0.017**	ug/L	0.000	2	219	42	5	Standard
|	**Ba**	**135**	**0.001**	ug/L	0.001	167	15	19	43	Standard
⌊	**Ba**	**137**	**0.000**	ug/L	0.000	21	32	31	3	Standard
⌈>	**Tb**	**159**		ug/L			210378	195374	1	Standard
|	**Tl**	**205**	**-0.001**	ug/L	0.000	17	126	49	24	Standard
⌊	**Pb**	**208**	**0.002**	ug/L	0.000	14	139	241	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV6
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 19:20:07
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35999	40525	3	Standard
⌈>	**Sc**	**45**		ug/L			178549	169873	1	Standard
|	**Cr**	**52**	**48.377**	ug/L	0.592	1	15792	1060971	1	Standard
⌊	**Cr**	**53**	**49.044**	ug/L	0.310	0	166	120142	1	Standard
⌈>	**Ge**	**72**		ug/L			45167	41630	0	KED
|	**Ni**	**60**	**51.584**	ug/L	0.236	0	9	77187	0	KED
|	**Ni**	**62**	**51.538**	ug/L	0.376	0	1	12483	0	KED
|	**Cu**	**63**	**51.206**	ug/L	0.693	1	21	214716	1	KED
|	**Cu**	**65**	**51.080**	ug/L	0.314	0	12	108137	0	KED
|	**Zn**	**66**	**52.037**	ug/L	0.449	0	32	30023	0	KED
|	**Zn**	**67**	**51.390**	ug/L	0.236	0	5	4906	0	KED
|	**As**	**75**	**50.188**	ug/L	0.331	0	5	14883	0	KED
⌊	**Se**	**78**	**50.549**	ug/L	0.859	1	10	1466	1	KED
	Kr	**83**		ug/L			57	57	20	Standard
⌈>	**In-1**	**115**		ug/L			10467	9460	3	KED
|	**Cd**	**111**	**50.822**	ug/L	1.333	2	2	14862	0	KED
⌊	**Cd**	**114**	**51.384**	ug/L	1.564	3	6	37967	1	KED
⌈>	**In**	**115**		ug/L			500517	464395	3	Standard
|	**Ag**	**107**	**47.065**	ug/L	1.097	2	34	688801	1	Standard
|	**Sb**	**121**	**50.778**	ug/L	0.852	1	300	647407	1	Standard
|	**Sb**	**123**	**52.162**	ug/L	0.999	1	219	507200	1	Standard
|	**Ba**	**135**	**50.580**	ug/L	1.719	3	15	279392	0	Standard
⌊	**Ba**	**137**	**48.951**	ug/L	1.259	2	32	516609	1	Standard
⌈>	**Tb**	**159**		ug/L			210378	202316	1	Standard
|	**Tl**	**205**	**52.102**	ug/L	0.585	1	126	3142300	0	Standard
⌊	**Pb**	**208**	**51.907**	ug/L	0.560	1	139	3989040	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB6
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 19:27:37
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35999	37756	0	Standard
⌈>	**Sc**	**45**		ug/L			178549	170091	0	Standard
|	**Cr**	**52**	**0.020**	ug/L	0.018	88	15792	15478	3	Standard
⌊	**Cr**	**53**	**-0.009**	ug/L	0.003	35	166	136	4	Standard
⌈>	**Ge**	**72**		ug/L			45167	43075	0	KED
|	**Ni**	**60**	**0.002**	ug/L	0.003	215	9	11	44	KED
|	**Ni**	**62**	**0.016**	ug/L	0.008	49	1	5	33	KED
|	**Cu**	**63**	**0.003**	ug/L	0.003	109	21	34	43	KED
|	**Cu**	**65**	**0.006**	ug/L	0.004	65	12	26	34	KED
|	**Zn**	**66**	**0.011**	ug/L	0.011	98	32	37	17	KED
|	**Zn**	**67**	**0.002**	ug/L	0.022	961	5	5	43	KED
|	**As**	**75**	**0.002**	ug/L	0.007	386	5	5	38	KED
⌊	**Se**	**78**	**0.013**	ug/L	0.050	389	10	10	14	KED
	Kr	**83**		ug/L			57	48	8	Standard
⌈>	**In-1**	**115**		ug/L			10467	10042	1	KED
|	**Cd**	**111**	**0.010**	ug/L	0.009	98	2	5	53	KED
⌊	**Cd**	**114**	**0.004**	ug/L	0.002	40	6	8	12	KED
⌈>	**In**	**115**		ug/L			500517	468957	3	Standard
|	**Ag**	**107**	**0.001**	ug/L	0.001	75	34	49	24	Standard
|	**Sb**	**121**	**0.033**	ug/L	0.001	3	300	713	4	Standard
|	**Sb**	**123**	**0.033**	ug/L	0.003	9	219	527	3	Standard
|	**Ba**	**135**	**0.057**	ug/L	0.003	5	15	334	7	Standard
⌊	**Ba**	**137**	**0.050**	ug/L	0.003	5	32	563	2	Standard
⌈>	**Tb**	**159**		ug/L			210378	202055	0	Standard
|	**Tl**	**205**	**0.001**	ug/L	0.000	27	126	199	10	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	17	139	217	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0683-01
Sample Dil Factor: 10
Comments:
Sample Date/Time: Wednesday, May 03, 2023 19:33:08
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			35999	117065	1	Standard
>	Sc	45		ug/L			178549	184255	1	Standard
	Cr	52	5.028	ug/L	0.027	0	15792	134216	1	Standard
	Cr	53	4.995	ug/L	0.112	2	166	13427	2	Standard
>	Ge	72		ug/L			45167	42704	0	KED
	Ni	60	2.048	ug/L	0.093	4	9	3152	3	KED
	Ni	62	2.032	ug/L	0.058	2	1	506	3	KED
	Cu	63	0.599	ug/L	0.028	4	21	2597	4	KED
	Cu	65	0.599	ug/L	0.025	4	12	1313	4	KED
	Zn	66	9.717	ug/L	0.095	0	32	5776	1	KED
	Zn	67	9.386	ug/L	0.391	4	5	923	4	KED
	As	75	0.025	ug/L	0.006	24	5	12	15	KED
	Se	78	0.073	ug/L	0.027	36	10	11	6	KED
	Kr	83		ug/L			57	42	35	Standard
>	In-1	115		ug/L			10467	9790	7	KED
	Cd	111	0.135	ug/L	0.013	9	2	43	2	KED
	Cd	114	0.143	ug/L	0.027	19	6	115	21	KED
>	In	115		ug/L			500517	475961	2	Standard
	Ag	107	0.016	ug/L	0.001	5	34	271	2	Standard
	Sb	121	0.047	ug/L	0.007	13	300	906	9	Standard
	Sb	123	0.045	ug/L	0.002	5	219	653	4	Standard
	Ba	135	2.664	ug/L	0.038	1	15	15105	0	Standard
	Ba	137	2.564	ug/L	0.056	2	32	27774	1	Standard
>	Tb	159		ug/L			210378	200909	1	Standard
	Tl	205	-0.000	ug/L	0.000	62	126	108	7	Standard
	Pb	208	0.019	ug/L	0.000	2	139	1572	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23E0038-02
Sample Dil Factor: 2
Comments:
Sample Date/Time: Wednesday, May 03, 2023 19:38:59
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			35999	71889	1	Standard
>	Sc	45		ug/L			178549	211288	3	Standard
	Cr	52	0.295	ug/L	0.032	10	15792	26608	1	Standard
	Cr	53	0.392	ug/L	0.012	3	166	1389	1	Standard
>	Ge	72		ug/L			45167	42903	0	KED
	Ni	60	1.020	ug/L	0.013	1	9	1581	1	KED
	Ni	62	1.038	ug/L	0.046	4	1	260	3	KED
	Cu	63	4.138	ug/L	0.038	0	21	17900	0	KED
	Cu	65	4.159	ug/L	0.083	1	12	9084	1	KED
	Zn	66	18.760	ug/L	0.251	1	32	11173	0	KED
	Zn	67	17.547	ug/L	0.238	1	5	1729	1	KED
	As	75	0.607	ug/L	0.034	5	5	190	5	KED
	Se	78	0.131	ug/L	0.089	68	10	13	19	KED
	Kr	83		ug/L			57	59	6	Standard
>	In-1	115		ug/L			10467	9828	1	KED
	Cd	111	0.117	ug/L	0.014	11	2	37	10	KED
	Cd	114	0.109	ug/L	0.021	19	6	89	16	KED
>	In	115		ug/L			500517	476186	2	Standard
	Ag	107	0.003	ug/L	0.001	30	34	81	19	Standard
	Sb	121	0.449	ug/L	0.022	4	300	6153	1	Standard
	Sb	123	0.455	ug/L	0.017	3	219	4747	3	Standard
	Ba	135	8.852	ug/L	0.209	2	15	50174	1	Standard
	Ba	137	8.786	ug/L	0.231	2	32	95116	1	Standard
>	Tb	159		ug/L			210378	205102	0	Standard
	Tl	205	0.000	ug/L	0.000	110	126	146	18	Standard
	Pb	208	0.360	ug/L	0.002	0	139	28199	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0645-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Wednesday, May 03, 2023 19:43:52
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			35999	732859	1	Standard
>	Sc	45		ug/L			178549	177897	3	Standard
	Cr	52	2.887	ug/L	0.089	3	15792	81073	2	Standard
	Cr	53	1.881	ug/L	0.059	3	166	4983	0	Standard
>	Ge	72		ug/L			45167	37869	0	KED
	Ni	60	16.678	ug/L	0.182	1	9	22705	0	KED
	Ni	62	16.086	ug/L	0.321	1	1	3545	1	KED
	Cu	63	5.783	ug/L	0.069	1	21	22072	0	KED
	Cu	65	5.825	ug/L	0.178	3	12	11226	2	KED
	Zn	66	4.113	ug/L	0.069	1	32	2183	0	KED
	Zn	67	6.778	ug/L	0.226	3	5	592	4	KED
	As	75	0.074	ug/L	0.008	10	5	24	8	KED
	Se	78	0.090	ug/L	0.080	88	10	10	18	KED
	Kr	83		ug/L			57	60	19	Standard
>	In-1	115		ug/L			10467	8800	1	KED
	Cd	111	0.488	ug/L	0.070	14	2	134	13	KED
	Cd	114	0.440	ug/L	0.032	7	6	307	6	KED
>	In	115		ug/L			500517	457226	2	Standard
	Ag	107	0.000	ug/L	0.000	42	34	35	3	Standard
	Sb	121	0.757	ug/L	0.007	0	300	9781	2	Standard
	Sb	123	0.761	ug/L	0.029	3	219	7477	1	Standard
	Ba	135	57.469	ug/L	1.504	2	15	312665	1	Standard
	Ba	137	54.883	ug/L	1.333	2	32	570324	0	Standard
>	Tb	159		ug/L			210378	197904	1	Standard
	Tl	205	-0.000	ug/L	0.000	71	126	99	14	Standard
	Pb	208	0.048	ug/L	0.001	1	139	3768	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0108-DUP1
Sample Dil Factor: 2
Comments:
Sample Date/Time: Wednesday, May 03, 2023 19:49:08
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			35999	719764	3	Standard
>	Sc	45		ug/L			178549	177254	1	Standard
	Cr	52	2.934	ug/L	0.083	2	15792	81880	3	Standard
	Cr	53	1.930	ug/L	0.040	2	166	5093	3	Standard
>	Ge	72		ug/L			45167	37019	1	KED
	Ni	60	16.749	ug/L	0.433	2	9	22289	1	KED
	Ni	62	16.916	ug/L	0.562	3	1	3644	3	KED
	Cu	63	5.770	ug/L	0.065	1	21	21530	1	KED
	Cu	65	5.761	ug/L	0.089	1	12	10856	2	KED
	Zn	66	4.195	ug/L	0.071	1	32	2176	2	KED
	Zn	67	6.817	ug/L	0.605	8	5	582	8	KED
	As	75	0.095	ug/L	0.015	15	5	29	14	KED
	Se	78	0.115	ug/L	0.056	48	10	11	12	KED
	Kr	83		ug/L			57	61	17	Standard
>	In-1	115		ug/L			10467	8767	0	KED
	Cd	111	0.423	ug/L	0.059	14	2	116	14	KED
	Cd	114	0.427	ug/L	0.017	3	6	297	3	KED
>	In	115		ug/L			500517	468691	2	Standard
	Ag	107	0.000	ug/L	0.000	97	34	39	18	Standard
	Sb	121	0.754	ug/L	0.015	1	300	9985	3	Standard
	Sb	123	0.760	ug/L	0.015	1	219	7664	1	Standard
	Ba	135	56.294	ug/L	0.371	0	15	314098	2	Standard
	Ba	137	54.007	ug/L	0.476	0	32	575471	1	Standard
>	Tb	159		ug/L			210378	195482	1	Standard
	Tl	205	-0.001	ug/L	0.000	40	126	85	16	Standard
	Pb	208	0.046	ug/L	0.001	1	139	3579	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0108-MS1
Sample Dil Factor: 2
Comments:
Sample Date/Time: Wednesday, May 03, 2023 19:53:48
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			35999	615801	2	Standard
>	Sc	45		ug/L			178549	170746	2	Standard
	Cr	52	14.939	ug/L	0.421	2	15792	339627	0	Standard
	Cr	53	14.186	ug/L	0.127	0	166	35042	2	Standard
>	Ge	72		ug/L			45167	35974	0	KED
	Ni	60	30.774	ug/L	0.303	0	9	39795	1	KED
	Ni	62	30.508	ug/L	0.616	2	1	6385	1	KED
	Cu	63	19.083	ug/L	0.403	2	21	69150	1	KED
	Cu	65	18.911	ug/L	0.071	0	12	34601	0	KED
	Zn	66	44.675	ug/L	0.466	1	32	22277	1	KED
	Zn	67	45.205	ug/L	0.898	1	5	3729	1	KED
	As	75	14.109	ug/L	0.199	1	5	3618	2	KED
	Se	78	43.376	ug/L	0.637	1	10	1088	1	KED
	Kr	83		ug/L			57	49	16	Standard
>	In-1	115		ug/L			10467	8445	1	KED
	Cd	111	13.704	ug/L	0.603	4	2	3579	2	KED
	Cd	114	13.809	ug/L	0.344	2	6	9115	1	KED
>	In	115		ug/L			500517	453746	3	Standard
	Ag	107	11.744	ug/L	0.307	2	34	167946	1	Standard
	Sb	121	0.820	ug/L	0.025	3	300	10486	1	Standard
	Sb	123	0.831	ug/L	0.023	2	219	8090	1	Standard
	Ba	135	70.074	ug/L	2.097	2	15	378232	0	Standard
	Ba	137	67.463	ug/L	2.224	3	32	695463	0	Standard
>	Tb	159		ug/L			210378	195279	2	Standard
	Tl	205	13.251	ug/L	0.258	1	126	771463	1	Standard
	Pb	208	12.940	ug/L	0.227	1	139	959848	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL7
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 20:01:27
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35999	44566	1	Standard
⌈>	**Sc**	**45**		ug/L			178549	165557	2	Standard
|	**Cr**	**52**	**0.073**	ug/L	0.008	10	15792	16191	2	Standard
⌊	**Cr**	**53**	**-0.010**	ug/L	0.004	36	166	129	8	Standard
⌈>	**Ge**	**72**		ug/L			45167	41878	0	KED
|	**Ni**	**60**	**0.005**	ug/L	0.003	61	9	15	27	KED
|	**Ni**	**62**	**0.016**	ug/L	0.021	128	1	5	88	KED
|	**Cu**	**63**	**0.001**	ug/L	0.001	109	21	24	20	KED
|	**Cu**	**65**	**0.000**	ug/L	0.002	1349	12	12	32	KED
|	**Zn**	**66**	**0.010**	ug/L	0.016	171	32	35	26	KED
|	**Zn**	**67**	**0.011**	ug/L	0.040	378	5	5	66	KED
|	**As**	**75**	**-0.007**	ug/L	0.003	50	5	3	32	KED
⌊	**Se**	**78**	**-0.054**	ug/L	0.099	183	10	7	35	KED
	Kr	**83**		ug/L			57	57	5	Standard
⌈>	**In-1**	**115**		ug/L			10467	9112	13	KED
|	**Cd**	**111**	**0.002**	ug/L	0.006	336	2	2	43	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.002	63	6	3	36	KED
⌈>	**In**	**115**		ug/L			500517	471236	2	Standard
|	**Ag**	**107**	**0.001**	ug/L	0.001	115	34	41	23	Standard
|	**Sb**	**121**	**-0.017**	ug/L	0.002	10	300	62	35	Standard
|	**Sb**	**123**	**-0.016**	ug/L	0.001	3	219	46	10	Standard
|	**Ba**	**135**	**0.002**	ug/L	0.001	27	15	27	10	Standard
⌊	**Ba**	**137**	**0.001**	ug/L	0.001	84	32	45	26	Standard
⌈>	**Tb**	**159**		ug/L			210378	197355	0	Standard
|	**Tl**	**205**	**-0.001**	ug/L	0.000	6	126	57	6	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	14	139	236	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0375-02
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 20:06:28
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			35999	68814	1	Standard
>	Sc	45		ug/L			178549	185242	1	Standard
	Cr	52	1.173	ug/L	0.040	3	15792	44050	2	Standard
	Cr	53	1.395	ug/L	0.019	1	166	3893	2	Standard
>	Ge	72		ug/L			45167	42426	0	KED
	Ni	60	0.821	ug/L	0.016	1	9	1261	1	KED
	Ni	62	0.826	ug/L	0.047	5	1	205	6	KED
	Cu	63	2.452	ug/L	0.070	2	21	10498	2	KED
	Cu	65	2.462	ug/L	0.033	1	12	5322	1	KED
	Zn	66	39.877	ug/L	0.227	0	32	23454	0	KED
	Zn	67	37.942	ug/L	0.827	2	5	3692	1	KED
	As	75	0.514	ug/L	0.010	1	5	160	2	KED
	Se	78	0.027	ug/L	0.050	182	10	10	13	KED
	Kr	83		ug/L			57	47	26	Standard
>	In-1	115		ug/L			10467	9800	2	KED
	Cd	111	0.081	ug/L	0.007	8	2	26	10	KED
	Cd	114	0.055	ug/L	0.010	17	6	47	13	KED
>	In	115		ug/L			500517	487688	2	Standard
	Ag	107	0.003	ug/L	0.000	17	34	75	11	Standard
	Sb	121	1.154	ug/L	0.041	3	300	15738	3	Standard
	Sb	123	1.184	ug/L	0.036	3	219	12300	0	Standard
	Ba	135	21.657	ug/L	0.419	1	15	125703	1	Standard
	Ba	137	20.864	ug/L	0.531	2	32	231310	2	Standard
>	Tb	159		ug/L			210378	206178	0	Standard
	Tl	205	0.000	ug/L	0.000	88	126	147	14	Standard
	Pb	208	0.450	ug/L	0.002	0	139	35353	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0018-DUP2
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 20:12:12
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			35999	66865	2	Standard
>	Sc	45		ug/L			178549	183815	3	Standard
	Cr	52	1.119	ug/L	0.037	3	15792	42421	1	Standard
	Cr	53	1.338	ug/L	0.041	3	166	3712	4	Standard
>	Ge	72		ug/L			45167	43237	0	KED
	Ni	60	0.789	ug/L	0.012	1	9	1235	2	KED
	Ni	62	0.778	ug/L	0.090	11	1	197	11	KED
	Cu	63	2.344	ug/L	0.016	0	21	10229	1	KED
	Cu	65	2.443	ug/L	0.104	4	12	5381	3	KED
	Zn	66	37.996	ug/L	0.068	0	32	22777	0	KED
	Zn	67	36.305	ug/L	1.103	3	5	3601	2	KED
	As	75	0.533	ug/L	0.011	2	5	169	2	KED
	Se	78	-0.011	ug/L	0.152	1420	10	9	47	KED
	Kr	83		ug/L			57	43	35	Standard
>	In-1	115		ug/L			10467	10061	1	KED
	Cd	111	0.047	ug/L	0.016	33	2	17	28	KED
	Cd	114	0.052	ug/L	0.012	22	6	46	21	KED
>	In	115		ug/L			500517	479075	3	Standard
	Ag	107	0.006	ug/L	0.005	89	34	123	69	Standard
	Sb	121	1.126	ug/L	0.048	4	300	15082	0	Standard
	Sb	123	1.130	ug/L	0.055	4	219	11537	1	Standard
	Ba	135	20.799	ug/L	0.481	2	15	118561	1	Standard
	Ba	137	20.532	ug/L	0.539	2	32	223537	0	Standard
>	Tb	159		ug/L			210378	204007	1	Standard
	Tl	205	0.001	ug/L	0.000	11	126	154	3	Standard
	Pb	208	0.453	ug/L	0.002	0	139	35227	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0018-MS2
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 20:16:58
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			35999	61304	2	Standard
>	Sc	45		ug/L			178549	184531	1	Standard
	Cr	52	25.171	ug/L	0.527	2	15792	607676	3	Standard
	Cr	53	25.526	ug/L	0.318	1	166	68018	2	Standard
>	Ge	72		ug/L			45167	42538	1	KED
	Ni	60	28.080	ug/L	0.506	1	9	42932	1	KED
	Ni	62	28.043	ug/L	0.919	3	1	6942	4	KED
	Cu	63	29.308	ug/L	0.503	1	21	125588	2	KED
	Cu	65	29.014	ug/L	0.136	0	12	62767	1	KED
	Zn	66	120.847	ug/L	1.683	1	32	71199	0	KED
	Zn	67	112.796	ug/L	1.995	1	5	10997	1	KED
	As	75	26.157	ug/L	0.290	1	5	7928	1	KED
	Se	78	81.399	ug/L	2.197	2	10	2406	1	KED
	Kr	83		ug/L			57	62	31	Standard
>	In-1	115		ug/L			10467	9704	1	KED
	Cd	111	26.051	ug/L	0.216	0	2	7820	1	KED
	Cd	114	26.746	ug/L	0.469	1	6	20283	0	KED
>	In	115		ug/L			500517	462702	1	Standard
	Ag	107	24.959	ug/L	0.530	2	34	364099	1	Standard
	Sb	121	1.247	ug/L	0.016	1	300	16113	1	Standard
	Sb	123	1.266	ug/L	0.013	1	219	12465	0	Standard
	Ba	135	48.302	ug/L	0.887	1	15	266021	1	Standard
	Ba	137	47.573	ug/L	0.149	0	32	500501	1	Standard
>	Tb	159		ug/L			210378	203949	0	Standard
	Tl	205	26.684	ug/L	0.336	1	126	1622566	1	Standard
	Pb	208	27.205	ug/L	0.162	0	139	2107897	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL8
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 20:21:45
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35999	40027	2	Standard
⌈>	**Sc**	**45**		ug/L			178549	167015	2	Standard
|	**Cr**	**52**	**0.017**	ug/L	0.017	95	15792	15140	2	Standard
⌊	**Cr**	**53**	**-0.005**	ug/L	0.002	36	166	144	3	Standard
⌈>	**Ge**	**72**		ug/L			45167	42584	1	KED
|	**Ni**	**60**	**0.002**	ug/L	0.003	209	9	11	44	KED
|	**Ni**	**62**	**0.011**	ug/L	0.012	111	1	4	65	KED
|	**Cu**	**63**	**0.001**	ug/L	0.001	84	21	26	18	KED
|	**Cu**	**65**	**0.002**	ug/L	0.002	91	12	16	24	KED
|	**Zn**	**66**	**0.003**	ug/L	0.011	326	32	32	17	KED
|	**Zn**	**67**	**0.088**	ug/L	0.041	47	5	13	28	KED
|	**As**	**75**	**-0.002**	ug/L	0.004	224	5	4	26	KED
⌊	**Se**	**78**	**-0.028**	ug/L	0.069	251	10	8	24	KED
	Kr	**83**		ug/L			57	55	15	Standard
⌈>	**In-1**	**115**		ug/L			10467	10077	2	KED
|	**Cd**	**111**	**0.003**	ug/L	0.007	190	2	3	56	KED
⌊	**Cd**	**114**	**0.000**	ug/L	0.009	1813	6	6	106	KED
⌈>	**In**	**115**		ug/L			500517	459889	2	Standard
|	**Ag**	**107**	**0.002**	ug/L	0.002	119	34	57	55	Standard
|	**Sb**	**121**	**-0.019**	ug/L	0.001	5	300	40	31	Standard
|	**Sb**	**123**	**-0.017**	ug/L	0.000	1	219	35	8	Standard
|	**Ba**	**135**	**0.005**	ug/L	0.006	118	15	43	81	Standard
⌊	**Ba**	**137**	**0.003**	ug/L	0.004	120	32	66	68	Standard
⌈>	**Tb**	**159**		ug/L			210378	198272	0	Standard
|	**Tl**	**205**	**0.001**	ug/L	0.003	230	126	193	88	Standard
⌊	**Pb**	**208**	**0.004**	ug/L	0.003	78	139	445	56	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV7
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 20:26:31
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35999	40802	0	Standard
>	**Sc**	**45**		ug/L			178549	170356	5	Standard
	Cr	**52**	**49.520**	ug/L	2.501	5	15792	1087061	0	Standard
	Cr	**53**	**50.203**	ug/L	1.680	3	166	123193	1	Standard
>	**Ge**	**72**		ug/L			45167	43443	1	KED
	Ni	**60**	**50.893**	ug/L	0.639	1	9	79460	0	KED
	Ni	**62**	**50.987**	ug/L	0.952	1	1	12885	0	KED
	Cu	**63**	**50.440**	ug/L	0.197	0	21	220705	0	KED
	Cu	**65**	**51.602**	ug/L	0.678	1	12	114000	1	KED
	Zn	**66**	**52.111**	ug/L	1.377	2	32	31370	1	KED
	Zn	**67**	**51.671**	ug/L	0.987	1	5	5146	0	KED
	As	**75**	**49.985**	ug/L	0.320	0	5	15468	0	KED
	Se	**78**	**50.168**	ug/L	1.550	3	10	1518	2	KED
	Kr	**83**		ug/L			57	53	10	Standard
>	**In-1**	**115**		ug/L			10467	9936	1	KED
	Cd	**111**	**50.109**	ug/L	1.219	2	2	15396	1	KED
	Cd	**114**	**50.049**	ug/L	1.078	2	6	38858	2	KED
>	**In**	**115**		ug/L			500517	449199	4	Standard
	Ag	**107**	**48.842**	ug/L	1.200	2	34	691378	3	Standard
	Sb	**121**	**52.569**	ug/L	1.151	2	300	648154	2	Standard
	Sb	**123**	**53.126**	ug/L	1.930	3	219	499340	1	Standard
	Ba	**135**	**51.873**	ug/L	2.302	4	15	277005	0	Standard
	Ba	**137**	**51.282**	ug/L	2.224	4	32	523083	0	Standard
>	**Tb**	**159**		ug/L			210378	202356	2	Standard
	Tl	**205**	**53.107**	ug/L	1.186	2	126	3202729	0	Standard
	Pb	**208**	**52.425**	ug/L	1.041	1	139	4029182	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB7
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 20:34:02
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323a.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35999	37964	2	Standard
⌈>	**Sc**	**45**		ug/L			178549	166457	3	Standard
|	**Cr**	**52**	**0.025**	ug/L	0.011	44	15792	15252	3	Standard
⌊	**Cr**	**53**	**-0.009**	ug/L	0.008	87	166	133	17	Standard
⌈>	**Ge**	**72**		ug/L			45167	43402	0	KED
|	**Ni**	**60**	**0.001**	ug/L	0.004	607	9	10	60	KED
|	**Ni**	**62**	**-0.002**	ug/L	0.009	393	1	1	173	KED
|	**Cu**	**63**	**0.002**	ug/L	0.002	119	21	27	30	KED
|	**Cu**	**65**	**-0.000**	ug/L	0.002	492	12	11	33	KED
|	**Zn**	**66**	**0.003**	ug/L	0.018	578	32	33	33	KED
|	**Zn**	**67**	**-0.024**	ug/L	0.011	46	5	2	43	KED
|	**As**	**75**	**-0.008**	ug/L	0.002	29	5	2	26	KED
⌊	**Se**	**78**	**0.046**	ug/L	0.063	137	10	11	16	KED
	Kr	**83**		ug/L			57	52	23	Standard
⌈>	**In-1**	**115**		ug/L			10467	10326	0	KED
|	**Cd**	**111**	**0.002**	ug/L	0.007	329	2	3	69	KED
⌊	**Cd**	**114**	**-0.005**	ug/L	0.000	2	6	1	6	KED
⌈>	**In**	**115**		ug/L			500517	449313	2	Standard
|	**Ag**	**107**	**0.001**	ug/L	0.000	36	34	46	10	Standard
|	**Sb**	**121**	**0.034**	ug/L	0.004	10	300	688	4	Standard
|	**Sb**	**123**	**0.032**	ug/L	0.001	1	219	497	3	Standard
|	**Ba**	**135**	**0.066**	ug/L	0.005	7	15	365	9	Standard
⌊	**Ba**	**137**	**0.063**	ug/L	0.003	4	32	673	6	Standard
⌈>	**Tb**	**159**		ug/L			210378	196878	3	Standard
|	**Tl**	**205**	**0.001**	ug/L	0.000	27	126	177	11	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	32	139	198	11	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 20:43:10
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				35614	1	Standard
⌈>	**Ge**	**72**		ug/L				44012	0	KED
|	**Cu**	**63**		ug/L				22	9	KED
|	**Cu**	**65**		ug/L				15	30	KED
|	**Zn**	**66**		ug/L				28	11	KED
|	**Zn**	**67**		ug/L				3	69	KED
|	**As**	**75**		ug/L				2	53	KED
⌊	**Se**	**78**		ug/L				10	34	KED
	Kr	**83**		ug/L				62	10	Standard
⌈>	**In**	**115**		ug/L				427940	1	Standard
|	**Sb**	**121**		ug/L				212	11	Standard
⌊	**Sb**	**123**		ug/L				160	13	Standard
⌈>	**Tb**	**159**		ug/L				188760	1	Standard
|	**Tl**	**205**		ug/L				78	16	Standard
⌊	**Pb**	**208**		ug/L				155	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV8
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 20:47:12
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35614	37719	2	Standard
⌈>	**Ge**	**72**		ug/L			44012	43705	0	KED
|	**Cu**	**63**	**50.281**	ug/L	0.542	1	22	221339	0	KED
|	**Cu**	**65**	**50.539**	ug/L	0.429	0	15	112328	1	KED
|	**Zn**	**66**	**51.270**	ug/L	1.797	3	28	31048	2	KED
|	**Zn**	**67**	**51.195**	ug/L	0.863	1	3	5129	1	KED
|	**As**	**75**	**49.479**	ug/L	0.804	1	2	15400	1	KED
⌊	**Se**	**78**	**50.638**	ug/L	1.343	2	10	1543	2	KED
	Kr	**83**		ug/L			62	68	10	Standard
⌈>	**In**	**115**		ug/L			427940	437370	3	Standard
|	**Sb**	**121**	**51.126**	ug/L	1.410	2	212	613709	0	Standard
⌊	**Sb**	**123**	**51.037**	ug/L	1.243	2	160	467315	1	Standard
⌈>	**Tb**	**159**		ug/L			188760	199307	0	Standard
|	**Tl**	**205**	**52.655**	ug/L	0.208	0	78	3128773	0	Standard
⌊	**Pb**	**208**	**51.953**	ug/L	0.518	0	155	3933516	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB8
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 20:53:58
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35614	36064	0	Standard
>	**Ge**	**72**		ug/L			44012	43906	0	KED
	Cu	**63**	**0.002**	ug/L	0.005	219	22	31	66	KED
	Cu	**65**	**-0.002**	ug/L	0.004	196	15	11	76	KED
	Zn	**66**	**-0.004**	ug/L	0.011	259	28	26	25	KED
	Zn	**67**	**0.038**	ug/L	0.011	29	3	6	15	KED
	As	**75**	**0.007**	ug/L	0.005	65	2	4	32	KED
	Se	**78**	**0.001**	ug/L	0.102	6943	10	10	28	KED
	Kr	**83**		ug/L			62	55	3	Standard
>	**In**	**115**		ug/L			427940	438459	1	Standard
	Sb	**121**	**0.040**	ug/L	0.003	6	212	693	4	Standard
	Sb	**123**	**0.036**	ug/L	0.004	11	160	494	6	Standard
>	**Tb**	**159**		ug/L			188760	193140	1	Standard
	Tl	**205**	**0.003**	ug/L	0.000	8	78	259	5	Standard
	Pb	**208**	**-0.000**	ug/L	0.000	314	155	155	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0404-BLK1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 21:02:35
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			35614	65921	2	Standard
>	Ge	72		ug/L			44012	46237	1	KED
	Cu	63	1.481	ug/L	0.022	1	22	6919	0	KED
	Cu	65	1.496	ug/L	0.037	2	15	3535	3	KED
	Zn	66	0.402	ug/L	0.045	11	28	287	9	KED
	Zn	67	0.388	ug/L	0.069	17	3	44	17	KED
	As	75	0.006	ug/L	0.005	84	2	4	40	KED
	Se	78	0.033	ug/L	0.010	29	10	12	2	KED
	Kr	83		ug/L			62	47	4	Standard
>	In	115		ug/L			427940	453302	2	Standard
	Sb	121	0.011	ug/L	0.001	5	212	358	0	Standard
	Sb	123	0.012	ug/L	0.006	53	160	281	21	Standard
>	Tb	159		ug/L			188760	200028	2	Standard
	Tl	205	0.001	ug/L	0.000	36	78	123	10	Standard
	Pb	208	0.007	ug/L	0.000	4	155	677	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0404-BS1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 21:06:37
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35614	69591	0	Standard
⌈>	**Ge**	**72**		ug/L			44012	44421	0	KED
|	**Cu**	**63**	**27.563**	ug/L	0.315	1	22	123332	0	KED
|	**Cu**	**65**	**27.331**	ug/L	0.179	0	15	61749	0	KED
|	**Zn**	**66**	**84.092**	ug/L	0.809	0	28	51749	1	KED
|	**Zn**	**67**	**79.915**	ug/L	1.519	1	3	8136	2	KED
|	**As**	**75**	**25.028**	ug/L	0.314	1	2	7919	0	KED
⌊	**Se**	**78**	**77.759**	ug/L	0.846	1	10	2402	1	KED
	Kr	**83**		ug/L			62	63	3	Standard
⌈>	**In**	**115**		ug/L			427940	451525	4	Standard
|	**Sb**	**121**	**0.066**	ug/L	0.005	7	212	1044	1	Standard
⌊	**Sb**	**123**	**0.069**	ug/L	0.003	3	160	825	4	Standard
⌈>	**Tb**	**159**		ug/L			188760	199449	2	Standard
|	**Tl**	**205**	**26.899**	ug/L	0.548	2	78	1599286	2	Standard
⌊	**Pb**	**208**	**27.114**	ug/L	0.193	0	155	2054337	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0511-BLK1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 21:10:39
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			35614	65642	2	Standard
>	Ge	72		ug/L			44012	44208	1	KED
	Cu	63	0.046	ug/L	0.005	10	22	225	10	KED
	Cu	65	0.053	ug/L	0.006	12	15	133	10	KED
	Zn	66	0.360	ug/L	0.041	11	28	248	9	KED
	Zn	67	0.388	ug/L	0.084	21	3	42	21	KED
	As	75	0.006	ug/L	0.001	14	2	3	6	KED
	Se	78	0.029	ug/L	0.087	302	10	11	23	KED
	Kr	83		ug/L			62	48	6	Standard
>	In	115		ug/L			427940	458616	3	Standard
	Sb	121	-0.009	ug/L	0.001	9	212	116	9	Standard
	Sb	123	-0.008	ug/L	0.001	14	160	99	12	Standard
>	Tb	159		ug/L			188760	201041	0	Standard
	Tl	205	0.001	ug/L	0.000	30	78	144	12	Standard
	Pb	208	0.006	ug/L	0.000	6	155	606	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0511-BS1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 21:14:41
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35614	68364	2	Standard
⌈>	**Ge**	**72**		ug/L			44012	44022	0	KED
|	**Cu**	**63**	**28.764**	ug/L	0.359	1	22	127546	0	KED
|	**Cu**	**65**	**28.763**	ug/L	0.473	1	15	64394	1	KED
|	**Zn**	**66**	**88.721**	ug/L	1.085	1	28	54105	1	KED
|	**Zn**	**67**	**81.226**	ug/L	1.821	2	3	8196	2	KED
|	**As**	**75**	**26.487**	ug/L	0.128	0	2	8305	0	KED
⌊	**Se**	**78**	**83.456**	ug/L	2.619	3	10	2554	2	KED
	Kr	**83**		ug/L			62	50	18	Standard
⌈>	**In**	**115**		ug/L			427940	461018	1	Standard
|	**Sb**	**121**	**0.064**	ug/L	0.002	2	212	1033	2	Standard
⌊	**Sb**	**123**	**0.064**	ug/L	0.004	5	160	792	5	Standard
⌈>	**Tb**	**159**		ug/L			188760	200108	1	Standard
|	**Tl**	**205**	**28.134**	ug/L	0.677	2	78	1678392	2	Standard
⌊	**Pb**	**208**	**28.811**	ug/L	0.195	0	155	2190291	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0068-BLK1
Sample Dil Factor: 10
Comments:
Sample Date/Time: Wednesday, May 03, 2023 21:18:43

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35614	59342	1	Standard
⌈>	**Ge**	**72**		ug/L			44012	43073	0	KED
|	**Cu**	**63**	**1.525**	ug/L	0.017	1	22	6637	0	KED
|	**Cu**	**65**	**1.540**	ug/L	0.028	1	15	3387	2	KED
|	**Zn**	**66**	**3.791**	ug/L	0.096	2	28	2288	1	KED
|	**Zn**	**67**	**3.745**	ug/L	0.177	4	3	372	4	KED
|	**As**	**75**	**0.028**	ug/L	0.017	62	2	10	49	KED
⌊	**Se**	**78**	**0.112**	ug/L	0.179	159	10	14	38	KED
	Kr	**83**		ug/L			62	55	13	Standard
⌈>	**In**	**115**		ug/L			427940	434062	0	Standard
|	**Sb**	**121**	**-0.010**	ug/L	0.001	9	212	92	13	Standard
⌊	**Sb**	**123**	**-0.010**	ug/L	0.001	14	160	74	16	Standard
⌈>	**Tb**	**159**		ug/L			188760	199275	1	Standard
|	**Tl**	**205**	**0.001**	ug/L	0.000	18	78	168	8	Standard
⌊	**Pb**	**208**	**0.103**	ug/L	0.004	4	155	7951	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0678-19
Sample Dil Factor: 10
Comments:

DEL

Sample Date/Time: Wednesday, May 03, 2023 21:22:45
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35614	60849	2	Standard
⌈>	**Ge**	**72**		ug/L			44012	41783	1	KED
|	**Cu**	**63**	**9.187**	ug/L	0.223	2	22	38671	0	KED
|	**Cu**	**65**	**9.202**	ug/L	0.244	2	15	19560	1	KED
|	**Zn**	**66**	**6.081**	ug/L	0.188	3	28	3543	2	KED
|	**Zn**	**67**	**5.682**	ug/L	0.392	6	3	546	5	KED
|	**As**	**75**	**0.024**	ug/L	0.007	29	2	9	21	KED
⌊	**Se**	**78**	**0.065**	ug/L	0.082	126	10	12	21	KED
	Kr	**83**		ug/L			62	57	32	Standard
⌈>	**In**	**115**		ug/L			427940	414311	2	Standard
|	**Sb**	**121**	**-0.008**	ug/L	0.002	19	212	116	12	Standard
⌊	**Sb**	**123**	**-0.007**	ug/L	0.001	20	160	95	14	Standard
⌈>	**Tb**	**159**		ug/L			188760	194145	0	Standard
|	**Tl**	**205**	**0.001**	ug/L	0.000	5	78	136	2	Standard
⌊	**Pb**	**208**	**0.082**	ug/L	0.002	3	155	6227	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0678-20
Sample Dil Factor: 10
Comments:

DEL

Sample Date/Time: Wednesday, May 03, 2023 21:26:41
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35614	61202	1	Standard
⌈>	**Ge**	**72**		ug/L			44012	42275	1	KED
|	**Cu**	**63**	**1.542**	ug/L	0.038	2	22	6585	1	KED
|	**Cu**	**65**	**1.503**	ug/L	0.052	3	15	3246	2	KED
|	**Zn**	**66**	**10.253**	ug/L	0.281	2	28	6027	1	KED
|	**Zn**	**67**	**9.678**	ug/L	0.172	1	3	940	2	KED
|	**As**	**75**	**0.040**	ug/L	0.007	16	2	14	12	KED
⌊	**Se**	**78**	**0.052**	ug/L	0.061	117	10	12	14	KED
	Kr	**83**		ug/L			62	55	15	Standard
⌈>	**In**	**115**		ug/L			427940	408440	2	Standard
|	**Sb**	**121**	**0.031**	ug/L	0.004	12	212	555	6	Standard
⌊	**Sb**	**123**	**0.035**	ug/L	0.006	16	160	448	8	Standard
⌈>	**Tb**	**159**		ug/L			188760	194837	1	Standard
|	**Tl**	**205**	**0.001**	ug/L	0.000	30	78	121	9	Standard
⌊	**Pb**	**208**	**0.038**	ug/L	0.001	1	155	2981	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0678-21
Sample Dil Factor: 10
DEL
Comments:
Sample Date/Time: Wednesday, May 03, 2023 21:31:07
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35614	62350	0	Standard
⌈>	**Ge**	**72**		ug/L			44012	41731	1	KED
|	**Cu**	**63**	**1.556**	ug/L	0.028	1	22	6559	0	KED
|	**Cu**	**65**	**1.562**	ug/L	0.034	2	15	3328	0	KED
|	**Zn**	**66**	**301.380**	ug/L	6.654	2	28	174120	0	KED
|	**Zn**	**67**	**279.251**	ug/L	5.960	2	3	26698	1	KED
|	**As**	**75**	**0.043**	ug/L	0.018	41	2	14	34	KED
⌊	**Se**	**78**	**0.067**	ug/L	0.088	130	10	12	21	KED
	Kr	**83**		ug/L			62	53	33	Standard
⌈>	**In**	**115**		ug/L			427940	400044	1	Standard
|	**Sb**	**121**	**0.005**	ug/L	0.001	20	212	258	3	Standard
⌊	**Sb**	**123**	**0.005**	ug/L	0.001	11	160	188	2	Standard
⌈>	**Tb**	**159**		ug/L			188760	191432	1	Standard
|	**Tl**	**205**	**0.001**	ug/L	0.000	40	78	121	12	Standard
⌊	**Pb**	**208**	**0.200**	ug/L	0.003	1	155	14679	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0678-22
Sample Dil Factor: 10
Comments:
Sample Date/Time: Wednesday, May 03, 2023 21:36:33

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35614	61014	1	Standard
>	**Ge**	**72**		ug/L			44012	43715	0	KED
	Cu	**63**	**8.940**	ug/L	0.034	0	22	39381	0	KED
	Cu	**65**	**8.955**	ug/L	0.107	1	15	19921	1	KED
	Zn	**66**	**73.895**	ug/L	0.295	0	28	44753	0	KED
	Zn	**67**	**67.418**	ug/L	0.734	1	3	6755	1	KED
	As	**75**	**0.080**	ug/L	0.008	9	2	27	9	KED
	Se	**78**	**0.068**	ug/L	0.050	72	10	12	11	KED
	Kr	**83**		ug/L			62	57	22	Standard
>	**In**	**115**		ug/L			427940	413310	1	Standard
	Sb	**121**	**0.006**	ug/L	0.003	45	212	278	11	Standard
	Sb	**123**	**0.005**	ug/L	0.001	22	160	202	5	Standard
>	**Tb**	**159**		ug/L			188760	198126	0	Standard
	Tl	**205**	**0.003**	ug/L	0.000	4	78	259	2	Standard
	Pb	**208**	**1.276**	ug/L	0.012	0	155	96168	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL9
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 21:41:00
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35614	40052	3	Standard
⌈>	**Ge**	**72**		ug/L			44012	46335	1	KED
|	**Cu**	**63**	**0.006**	ug/L	0.003	46	22	52	26	KED
|	**Cu**	**65**	**0.005**	ug/L	0.002	41	15	28	17	KED
|	**Zn**	**66**	**0.084**	ug/L	0.010	11	28	83	8	KED
|	**Zn**	**67**	**0.094**	ug/L	0.049	51	3	13	37	KED
|	**As**	**75**	**0.002**	ug/L	0.007	296	2	3	76	KED
⌊	**Se**	**78**	**0.035**	ug/L	0.049	139	10	12	13	KED
	Kr	**83**		ug/L			62	40	5	Standard
⌈>	**In**	**115**		ug/L			427940	423396	0	Standard
|	**Sb**	**121**	**-0.015**	ug/L	0.000	2	212	35	13	Standard
⌊	**Sb**	**123**	**-0.014**	ug/L	0.001	7	160	34	27	Standard
⌈>	**Tb**	**159**		ug/L			188760	197025	1	Standard
|	**Tl**	**205**	**0.003**	ug/L	0.000	12	78	272	7	Standard
⌊	**Pb**	**208**	**0.003**	ug/L	0.000	16	155	354	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV9
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 21:45:03
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35614	38219	0	Standard
⌈>	**Ge**	**72**		ug/L			44012	44857	0	KED
|	**Cu**	**63**	**50.682**	ug/L	0.633	1	22	228977	0	KED
|	**Cu**	**65**	**49.929**	ug/L	0.937	1	15	113885	0	KED
|	**Zn**	**66**	**51.249**	ug/L	0.344	0	28	31857	0	KED
|	**Zn**	**67**	**50.196**	ug/L	2.218	4	3	5160	3	KED
|	**As**	**75**	**49.497**	ug/L	0.581	1	2	15812	0	KED
⌊	**Se**	**78**	**50.758**	ug/L	1.263	2	10	1587	3	KED
	Kr	**83**		ug/L			62	69	16	Standard
⌈>	**In**	**115**		ug/L			427940	437432	1	Standard
|	**Sb**	**121**	**49.950**	ug/L	0.804	1	212	599975	0	Standard
⌊	**Sb**	**123**	**51.180**	ug/L	1.059	2	160	468837	0	Standard
⌈>	**Tb**	**159**		ug/L			188760	201282	1	Standard
|	**Tl**	**205**	**51.869**	ug/L	1.005	1	78	3112228	1	Standard
⌊	**Pb**	**208**	**51.144**	ug/L	0.541	1	155	3910787	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB9
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 21:51:50
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35614	37815	1	Standard
⌈>	**Ge**	**72**		ug/L			44012	45519	0	KED
|	**Cu**	**63**	**0.001**	ug/L	0.001	85	22	27	15	KED
|	**Cu**	**65**	**-0.001**	ug/L	0.001	57	15	13	14	KED
|	**Zn**	**66**	**0.055**	ug/L	0.010	17	28	64	8	KED
|	**Zn**	**67**	**0.072**	ug/L	0.011	15	3	10	10	KED
|	**As**	**75**	**0.003**	ug/L	0.005	167	2	3	51	KED
⌊	**Se**	**78**	**0.007**	ug/L	0.036	515	10	11	10	KED
	Kr	**83**		ug/L			62	45	4	Standard
⌈>	**In**	**115**		ug/L			427940	432896	1	Standard
|	**Sb**	**121**	**0.031**	ug/L	0.004	11	212	579	6	Standard
⌊	**Sb**	**123**	**0.031**	ug/L	0.001	2	160	443	3	Standard
⌈>	**Tb**	**159**		ug/L			188760	199248	1	Standard
|	**Tl**	**205**	**0.004**	ug/L	0.001	19	78	320	13	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.001	40	155	257	14	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0652-BLK1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 21:55:53
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			35614	63445	2	Standard
>	Ge	72		ug/L			44012	45247	1	KED
	Cu	63	0.057	ug/L	0.002	3	22	284	4	KED
	Cu	65	0.059	ug/L	0.003	4	15	151	2	KED
	Zn	66	0.209	ug/L	0.011	5	28	160	5	KED
	Zn	67	0.170	ug/L	0.090	52	3	20	45	KED
	As	75	0.006	ug/L	0.003	44	2	4	19	KED
	Se	78	-0.001	ug/L	0.106	11561	10	11	29	KED
	Kr	83		ug/L			62	49	10	Standard
>	In	115		ug/L			427940	440041	1	Standard
	Sb	121	0.007	ug/L	0.002	29	212	299	7	Standard
	Sb	123	0.009	ug/L	0.003	32	160	248	9	Standard
>	Tb	159		ug/L			188760	201575	1	Standard
	Tl	205	0.001	ug/L	0.000	47	78	130	17	Standard
	Pb	208	0.008	ug/L	0.001	11	155	780	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0652-BS1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 21:59:55
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35614	66441	1	Standard
⌈>	**Ge**	**72**		ug/L			44012	45681	1	KED
|	**Cu**	**63**	**27.592**	ug/L	0.419	1	22	126950	0	KED
|	**Cu**	**65**	**27.148**	ug/L	0.312	1	15	63066	0	KED
|	**Zn**	**66**	**85.749**	ug/L	1.420	1	28	54256	0	KED
|	**Zn**	**67**	**80.718**	ug/L	1.178	1	3	8450	0	KED
|	**As**	**75**	**25.428**	ug/L	0.346	1	2	8273	0	KED
⌊	**Se**	**78**	**83.524**	ug/L	1.687	2	10	2652	1	KED
	Kr	**83**		ug/L			62	60	25	Standard
⌈>	**In**	**115**		ug/L			427940	450365	0	Standard
|	**Sb**	**121**	**0.069**	ug/L	0.003	4	212	1078	3	Standard
⌊	**Sb**	**123**	**0.074**	ug/L	0.006	8	160	863	6	Standard
⌈>	**Tb**	**159**		ug/L			188760	200744	1	Standard
|	**Tl**	**205**	**26.579**	ug/L	0.342	1	78	1590503	0	Standard
⌊	**Pb**	**208**	**27.042**	ug/L	0.316	1	155	2062131	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0730-BLK1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 22:03:57
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35614	67162	0	Standard
⌈>	**Ge**	**72**		ug/L			44012	45383	0	KED
|	**Cu**	**63**	**0.130**	ug/L	0.001	1	22	617	0	KED
|	**Cu**	**65**	**0.136**	ug/L	0.009	6	15	329	5	KED
|	**Zn**	**66**	**0.409**	ug/L	0.040	9	28	286	8	KED
|	**Zn**	**67**	**0.420**	ug/L	0.109	25	3	46	24	KED
|	**As**	**75**	**0.007**	ug/L	0.010	147	2	4	71	KED
⌊	**Se**	**78**	**0.069**	ug/L	0.097	140	10	13	22	KED
	Kr	**83**		ug/L			62	44	13	Standard
⌈>	**In**	**115**		ug/L			427940	458928	0	Standard
|	**Sb**	**121**	**-0.006**	ug/L	0.001	15	212	152	7	Standard
⌊	**Sb**	**123**	**-0.004**	ug/L	0.001	14	160	134	3	Standard
⌈>	**Tb**	**159**		ug/L			188760	201057	1	Standard
|	**Tl**	**205**	**0.001**	ug/L	0.000	12	78	170	6	Standard
⌊	**Pb**	**208**	**0.011**	ug/L	0.000	4	155	977	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0730-BS1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 22:07:59
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35614	66017	1	Standard
⌈>	**Ge**	**72**		ug/L			44012	45892	1	KED
|	**Cu**	**63**	**26.999**	ug/L	0.429	1	22	124801	1	KED
|	**Cu**	**65**	**26.657**	ug/L	0.075	0	15	62220	1	KED
|	**Zn**	**66**	**81.879**	ug/L	1.632	1	28	52048	0	KED
|	**Zn**	**67**	**77.894**	ug/L	1.494	1	3	8192	1	KED
|	**As**	**75**	**24.478**	ug/L	0.223	0	2	8001	0	KED
⌊	**Se**	**78**	**75.804**	ug/L	2.047	2	10	2419	1	KED
	Kr	**83**		ug/L			62	55	13	Standard
⌈>	**In**	**115**		ug/L			427940	448099	2	Standard
|	**Sb**	**121**	**0.064**	ug/L	0.003	4	212	1010	5	Standard
⌊	**Sb**	**123**	**0.065**	ug/L	0.002	2	160	781	3	Standard
⌈>	**Tb**	**159**		ug/L			188760	200709	3	Standard
|	**Tl**	**205**	**26.846**	ug/L	0.925	3	78	1605298	0	Standard
⌊	**Pb**	**208**	**27.307**	ug/L	0.522	1	155	2081379	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0678-23
Sample Dil Factor: 10
Comments:
Sample Date/Time: Wednesday, May 03, 2023 22:12:01

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35614	60771	0	Standard
⌈>	**Ge**	**72**		ug/L			44012	42927	1	KED
|	**Cu**	**63**	**1.327**	ug/L	0.044	3	22	5757	2	KED
|	**Cu**	**65**	**1.335**	ug/L	0.028	2	15	2929	2	KED
|	**Zn**	**66**	**11.590**	ug/L	0.203	1	28	6917	2	KED
|	**Zn**	**67**	**10.689**	ug/L	0.442	4	3	1054	5	KED
|	**As**	**75**	**0.037**	ug/L	0.006	16	2	13	12	KED
⌊	**Se**	**78**	**0.079**	ug/L	0.075	95	10	13	17	KED
	Kr	**83**		ug/L			62	66	18	Standard
⌈>	**In**	**115**		ug/L			427940	414871	2	Standard
|	**Sb**	**121**	**0.018**	ug/L	0.002	11	212	409	8	Standard
⌊	**Sb**	**123**	**0.020**	ug/L	0.001	5	160	333	0	Standard
⌈>	**Tb**	**159**		ug/L			188760	195094	0	Standard
|	**Tl**	**205**	**0.003**	ug/L	0.000	16	78	262	10	Standard
⌊	**Pb**	**208**	**0.074**	ug/L	0.003	4	155	5676	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0678-24
Sample Dil Factor: 10
Comments:
Sample Date/Time: Wednesday, May 03, 2023 22:15:57

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35614	61927	1	Standard
>	**Ge**	**72**		ug/L			44012	41774	1	KED
	Cu	**63**	**1.702**	ug/L	0.070	4	22	7176	2	KED
	Cu	**65**	**1.694**	ug/L	0.011	0	15	3612	1	KED
	Zn	**66**	**13.074**	ug/L	0.261	1	28	7587	0	KED
	Zn	**67**	**11.794**	ug/L	0.299	2	3	1131	1	KED
	As	**75**	**0.029**	ug/L	0.005	17	2	10	13	KED
	Se	**78**	**0.098**	ug/L	0.101	102	10	13	23	KED
	Kr	**83**		ug/L			62	65	11	Standard
>	**In**	**115**		ug/L			427940	403372	2	Standard
	Sb	**121**	**0.012**	ug/L	0.001	6	212	337	3	Standard
	Sb	**123**	**0.012**	ug/L	0.001	9	160	253	2	Standard
>	**Tb**	**159**		ug/L			188760	193109	0	Standard
	Tl	**205**	**0.002**	ug/L	0.000	16	78	218	11	Standard
	Pb	**208**	**9.565**	ug/L	0.035	0	155	701799	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0678-25
Sample Dil Factor: 10
Comments:
Sample Date/Time: Wednesday, May 03, 2023 22:20:23

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35614	61522	1	Standard
>	**Ge**	**72**		ug/L			44012	43333	1	KED
	Cu	**63**	**4.073**	ug/L	0.040	0	22	17795	0	KED
	Cu	**65**	**4.192**	ug/L	0.068	1	15	9251	0	KED
	Zn	**66**	**9.712**	ug/L	0.298	3	28	5853	1	KED
	Zn	**67**	**8.962**	ug/L	0.427	4	3	892	4	KED
	As	**75**	**0.069**	ug/L	0.009	13	2	23	12	KED
	Se	**78**	**0.088**	ug/L	0.030	34	10	13	7	KED
	Kr	**83**		ug/L			62	59	17	Standard
>	**In**	**115**		ug/L			427940	399350	2	Standard
	Sb	**121**	**-0.003**	ug/L	0.002	48	212	160	9	Standard
	Sb	**123**	**-0.004**	ug/L	0.003	82	160	118	24	Standard
>	**Tb**	**159**		ug/L			188760	193670	2	Standard
	Tl	**205**	**0.003**	ug/L	0.000	8	78	234	4	Standard
	Pb	**208**	**0.344**	ug/L	0.010	2	155	25454	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0678-26
Sample Dil Factor: 10
Comments:
Sample Date/Time: Wednesday, May 03, 2023 22:24:49

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35614	61406	1	Standard
>	**Ge**	**72**		ug/L			44012	43022	0	KED
	Cu	**63**	**1.596**	ug/L	0.031	1	22	6935	1	KED
	Cu	**65**	**1.689**	ug/L	0.057	3	15	3709	3	KED
	Zn	**66**	**8.717**	ug/L	0.132	1	28	5220	0	KED
	Zn	**67**	**8.258**	ug/L	0.165	2	3	817	2	KED
	As	**75**	**0.037**	ug/L	0.008	22	2	13	18	KED
	Se	**78**	**0.023**	ug/L	0.019	78	10	11	4	KED
	Kr	**83**		ug/L			62	57	35	Standard
>	**In**	**115**		ug/L			427940	407700	1	Standard
	Sb	**121**	**-0.006**	ug/L	0.000	2	212	137	0	Standard
	Sb	**123**	**-0.008**	ug/L	0.001	15	160	89	10	Standard
>	**Tb**	**159**		ug/L			188760	194187	0	Standard
	Tl	**205**	**0.001**	ug/L	0.000	31	78	127	11	Standard
	Pb	**208**	**0.245**	ug/L	0.005	2	155	18249	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0678-27

Sample Dil Factor: 10

DEL

Comments:

Sample Date/Time: Wednesday, May 03, 2023 22:30:15

Number of Replicates: 3

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth

Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun

Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac

Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35614	61953	1	Standard
⌈>	**Ge**	**72**		ug/L			44012	46578	0	KED
|	**Cu**	**63**	**0.576**	ug/L	0.017	2	22	2723	2	KED
|	**Cu**	**65**	**0.576**	ug/L	0.005	0	15	1381	0	KED
|	**Zn**	**66**	**6.327**	ug/L	0.233	3	28	4110	3	KED
|	**Zn**	**67**	**6.054**	ug/L	0.479	7	3	649	8	KED
|	**As**	**75**	**0.003**	ug/L	0.002	83	2	3	24	KED
⌊	**Se**	**78**	**-0.041**	ug/L	0.055	133	10	10	17	KED
	Kr	**83**		ug/L			62	50	30	Standard
⌈>	**In**	**115**		ug/L			427940	432277	1	Standard
|	**Sb**	**121**	**-0.012**	ug/L	0.002	14	212	71	29	Standard
⌊	**Sb**	**123**	**-0.012**	ug/L	0.001	5	160	50	11	Standard
⌈>	**Tb**	**159**		ug/L			188760	202515	1	Standard
|	**Tl**	**205**	**0.001**	ug/L	0.000	22	78	130	6	Standard
⌊	**Pb**	**208**	**0.045**	ug/L	0.002	4	155	3633	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLA
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 22:34:42
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35614	39893	0	Standard
⌈>	**Ge**	**72**		ug/L			44012	47045	1	KED
|	**Cu**	**63**	**0.005**	ug/L	0.002	41	22	47	20	KED
|	**Cu**	**65**	**0.004**	ug/L	0.003	73	15	26	25	KED
|	**Zn**	**66**	**0.062**	ug/L	0.017	27	28	71	14	KED
|	**Zn**	**67**	**0.134**	ug/L	0.080	59	3	17	48	KED
|	**As**	**75**	**0.003**	ug/L	0.003	105	2	3	34	KED
⌊	**Se**	**78**	**0.049**	ug/L	0.050	103	10	13	13	KED
	Kr	**83**		ug/L			62	51	6	Standard
⌈>	**In**	**115**		ug/L			427940	433308	1	Standard
|	**Sb**	**121**	**-0.014**	ug/L	0.001	4	212	43	19	Standard
⌊	**Sb**	**123**	**-0.015**	ug/L	0.001	6	160	30	29	Standard
⌈>	**Tb**	**159**		ug/L			188760	197258	1	Standard
|	**Tl**	**205**	**0.002**	ug/L	0.000	14	78	220	9	Standard
⌊	**Pb**	**208**	**0.003**	ug/L	0.000	10	155	367	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVA
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 22:38:39
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35614	38437	1	Standard
⌈>	**Ge**	**72**		ug/L			44012	45428	0	KED
|	**Cu**	**63**	**49.703**	ug/L	0.399	0	22	227425	0	KED
|	**Cu**	**65**	**49.918**	ug/L	0.142	0	15	115322	0	KED
|	**Zn**	**66**	**50.542**	ug/L	0.625	1	28	31819	1	KED
|	**Zn**	**67**	**50.669**	ug/L	0.991	1	3	5277	2	KED
|	**As**	**75**	**49.290**	ug/L	0.337	0	2	15947	0	KED
⌊	**Se**	**78**	**50.220**	ug/L	0.754	1	10	1590	1	KED
	Kr	**83**		ug/L			62	55		Standard
⌈>	**In**	**115**		ug/L			427940	432090	1	Standard
|	**Sb**	**121**	**51.308**	ug/L	0.907	1	212	608781	1	Standard
⌊	**Sb**	**123**	**50.911**	ug/L	0.246	0	160	460798	1	Standard
⌈>	**Tb**	**159**		ug/L			188760	207050	1	Standard
|	**Tl**	**205**	**50.982**	ug/L	0.360	0	78	3147088	1	Standard
⌊	**Pb**	**208**	**50.542**	ug/L	0.795	1	155	3975173	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBA
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 22:45:26
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35614	37027	0	Standard
⌈>	**Ge**	**72**		ug/L			44012	46734	1	KED
|	**Cu**	**63**	**0.002**	ug/L	0.002	66	22	34	20	KED
|	**Cu**	**65**	**0.000**	ug/L	0.001	234	15	17	12	KED
|	**Zn**	**66**	**0.075**	ug/L	0.005	7	28	78	5	KED
|	**Zn**	**67**	**0.070**	ug/L	0.047	66	3	10	44	KED
|	**As**	**75**	**0.005**	ug/L	0.008	154	2	3	61	KED
⌊	**Se**	**78**	**0.004**	ug/L	0.059	1379	10	11	14	KED
	Kr	**83**		ug/L			62	52	18	Standard
⌈>	**In**	**115**		ug/L			427940	435937	2	Standard
|	**Sb**	**121**	**0.029**	ug/L	0.004	13	212	565	5	Standard
⌊	**Sb**	**123**	**0.031**	ug/L	0.006	17	160	445	8	Standard
⌈>	**Tb**	**159**		ug/L			188760	197572	2	Standard
|	**Tl**	**205**	**0.004**	ug/L	0.000	8	78	309	4	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	19	155	267	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0150-01
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 22:49:29
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35614	64883	0	Standard
⌈>	**Ge**	**72**		ug/L			44012	43516	0	KED
|	**Cu**	**63**	**0.410**	ug/L	0.013	3	22	1817	3	KED
|	**Cu**	**65**	**0.408**	ug/L	0.016	4	15	918	3	KED
|	**Zn**	**66**	**0.493**	ug/L	0.025	5	28	325	4	KED
|	**Zn**	**67**	**0.784**	ug/L	0.025	3	3	81	2	KED
|	**As**	**75**	**0.223**	ug/L	0.005	2	2	71	1	KED
⌊	**Se**	**78**	**0.051**	ug/L	0.083	164	10	12	21	KED
	Kr	**83**		ug/L			62	52	36	Standard
⌈>	**In**	**115**		ug/L			427940	455670	2	Standard
|	**Sb**	**121**	**0.080**	ug/L	0.000	0	212	1231	1	Standard
⌊	**Sb**	**123**	**0.081**	ug/L	0.004	5	160	946	4	Standard
⌈>	**Tb**	**159**		ug/L			188760	200891	1	Standard
|	**Tl**	**205**	**0.001**	ug/L	0.000	6	78	169	2	Standard
⌊	**Pb**	**208**	**0.149**	ug/L	0.005	3	155	11525	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0150-03
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 22:53:25
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35614	64134	0	Standard
⌈>	**Ge**	**72**		ug/L			44012	42408	1	KED
|	**Cu**	**63**	**0.276**	ug/L	0.014	5	22	1198	4	KED
|	**Cu**	**65**	**0.277**	ug/L	0.018	6	15	613	6	KED
|	**Zn**	**66**	**0.700**	ug/L	0.059	8	28	438	6	KED
|	**Zn**	**67**	**3.363**	ug/L	0.289	8	3	329	7	KED
|	**As**	**75**	**0.009**	ug/L	0.001	14	2	4	10	KED
⌊	**Se**	**78**	**0.144**	ug/L	0.040	27	10	14	7	KED
	Kr	**83**		ug/L			62	46	38	Standard
⌈>	**In**	**115**		ug/L			427940	432405	2	Standard
|	**Sb**	**121**	**-0.003**	ug/L	0.002	48	212	175	10	Standard
⌊	**Sb**	**123**	**-0.002**	ug/L	0.001	61	160	141	11	Standard
⌈>	**Tb**	**159**		ug/L			188760	198795	1	Standard
|	**Tl**	**205**	**0.000**	ug/L	0.000	242	78	88	13	Standard
⌊	**Pb**	**208**	**0.006**	ug/L	0.000	4	155	627	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0150-05
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 22:57:51
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35614	65626	1	Standard
⌈>	**Ge**	**72**		ug/L			44012	43439	0	KED
|	**Cu**	**63**	**0.208**	ug/L	0.006	2	22	930	2	KED
|	**Cu**	**65**	**0.208**	ug/L	0.014	6	15	474	6	KED
|	**Zn**	**66**	**1.269**	ug/L	0.077	6	28	791	5	KED
|	**Zn**	**67**	**4.185**	ug/L	0.317	7	3	419	7	KED
|	**As**	**75**	**0.019**	ug/L	0.007	37	2	8	26	KED
⌊	**Se**	**78**	**0.015**	ug/L	0.096	632	10	11	25	KED
	Kr	**83**		ug/L			62	45	32	Standard
⌈>	**In**	**115**		ug/L			427940	436397	2	Standard
|	**Sb**	**121**	**-0.005**	ug/L	0.001	26	212	158	6	Standard
⌊	**Sb**	**123**	**-0.005**	ug/L	0.001	25	160	115	11	Standard
⌈>	**Tb**	**159**		ug/L			188760	200845	0	Standard
|	**Tl**	**205**	**-0.000**	ug/L	0.000	209	78	80	7	Standard
⌊	**Pb**	**208**	**0.017**	ug/L	0.001	3	155	1473	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0150-07
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 23:03:17
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35614	70076	1	Standard
⌈>	**Ge**	**72**		ug/L			44012	42978	0	KED
|	**Cu**	**63**	**1.987**	ug/L	0.083	4	22	8620	3	KED
|	**Cu**	**65**	**2.002**	ug/L	0.089	4	15	4389	3	KED
|	**Zn**	**66**	**2.317**	ug/L	0.070	3	28	1406	2	KED
|	**Zn**	**67**	**8.545**	ug/L	0.194	2	3	844	2	KED
|	**As**	**75**	**0.053**	ug/L	0.008	14	2	18	13	KED
⌊	**Se**	**78**	**-0.006**	ug/L	0.069	1076	10	10	18	KED
	Kr	**83**		ug/L			62	46	24	Standard
⌈>	**In**	**115**		ug/L			427940	451151	1	Standard
|	**Sb**	**121**	**-0.004**	ug/L	0.001	20	212	168	8	Standard
⌊	**Sb**	**123**	**-0.004**	ug/L	0.002	49	160	134	12	Standard
⌈>	**Tb**	**159**		ug/L			188760	204714	0	Standard
|	**Tl**	**205**	**0.008**	ug/L	0.000	0	78	570	1	Standard
⌊	**Pb**	**208**	**0.189**	ug/L	0.004	2	155	14829	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLB
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 23:07:14
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35614	38052	0	Standard
⌈>	**Ge**	**72**		ug/L			44012	43800	0	KED
|	**Cu**	**63**	**0.005**	ug/L	0.000	5	22	44	2	KED
|	**Cu**	**65**	**0.001**	ug/L	0.003	567	15	17	44	KED
|	**Zn**	**66**	**0.102**	ug/L	0.027	26	28	90	17	KED
|	**Zn**	**67**	**0.120**	ug/L	0.019	15	3	15	12	KED
|	**As**	**75**	**-0.003**	ug/L	0.001	28	2	1	21	KED
⌊	**Se**	**78**	**-0.037**	ug/L	0.086	230	10	9	26	KED
	Kr	**83**		ug/L			62	52	20	Standard
⌈>	**In**	**115**		ug/L			427940	434764	0	Standard
|	**Sb**	**121**	**-0.013**	ug/L	0.001	8	212	58	24	Standard
⌊	**Sb**	**123**	**-0.013**	ug/L	0.001	8	160	43	22	Standard
⌈>	**Tb**	**159**		ug/L			188760	196613	1	Standard
|	**Tl**	**205**	**-0.000**	ug/L	0.000	43	78	66	9	Standard
⌊	**Pb**	**208**	**0.003**	ug/L	0.001	25	155	365	13	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0150-11
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 23:11:16
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			35614	70495	2	Standard
>	Ge	72		ug/L			44012	42000	0	KED
	Cu	63	1.928	ug/L	0.036	1	22	8178	1	KED
	Cu	65	1.950	ug/L	0.030	1	15	4179	1	KED
	Zn	66	1.914	ug/L	0.025	1	28	1140	1	KED
	Zn	67	7.848	ug/L	0.383	4	3	758	4	KED
	As	75	0.049	ug/L	0.006	11	2	16	10	KED
	Se	78	0.065	ug/L	0.126	193	10	12	29	KED
	Kr	83		ug/L			62	51	20	Standard
>	In	115		ug/L			427940	439375	1	Standard
	Sb	121	-0.005	ug/L	0.000	5	212	158	1	Standard
	Sb	123	-0.004	ug/L	0.001	32	160	125	9	Standard
>	Tb	159		ug/L			188760	203118	1	Standard
	Tl	205	0.005	ug/L	0.001	10	78	379	7	Standard
	Pb	208	0.128	ug/L	0.003	2	155	10037	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0559-DUP1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 23:15:12
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			35614	69454	2	Standard
⌈>	Ge	72		ug/L			44012	42411	1	KED
|	Cu	63	1.875	ug/L	0.074	3	22	8028	2	KED
|	Cu	65	1.875	ug/L	0.077	4	15	4056	2	KED
|	Zn	66	1.420	ug/L	0.023	1	28	861	2	KED
|	Zn	67	7.215	ug/L	0.207	2	3	704	3	KED
|	As	75	0.052	ug/L	0.006	10	2	17	10	KED
⌊	Se	78	0.018	ug/L	0.049	266	10	11	13	KED
	Kr	83		ug/L			62	48	18	Standard
⌈>	In	115		ug/L			427940	439202	0	Standard
|	Sb	121	-0.008	ug/L	0.001	10	212	120	9	Standard
⌊	Sb	123	-0.006	ug/L	0.001	24	160	113	10	Standard
⌈>	Tb	159		ug/L			188760	202703	1	Standard
|	Tl	205	0.005	ug/L	0.001	17	78	358	12	Standard
⌊	Pb	208	0.119	ug/L	0.003	2	155	9342	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0559-MS1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 23:19:39
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			35614	66578	0	Standard
⌈>	Ge	72		ug/L			44012	41456	0	KED
|	Cu	63	29.199	ug/L	0.106	0	22	121932	0	KED
|	Cu	65	29.753	ug/L	0.892	2	15	62731	3	KED
|	Zn	66	87.222	ug/L	1.076	1	28	50089	0	KED
|	Zn	67	86.734	ug/L	1.404	1	3	8240	1	KED
|	As	75	26.772	ug/L	0.293	1	2	7905	0	KED
⌊	Se	78	85.689	ug/L	2.234	2	10	2469	2	KED
	Kr	83		ug/L			62	60	6	Standard
⌈>	In	115		ug/L			427940	428504	2	Standard
|	Sb	121	27.180	ug/L	0.562	2	212	319873	1	Standard
⌊	Sb	123	27.570	ug/L	0.311	1	160	247536	2	Standard
⌈>	Tb	159		ug/L			188760	199204	1	Standard
|	Tl	205	27.223	ug/L	0.321	1	78	1616598	0	Standard
⌊	Pb	208	27.658	ug/L	0.452	1	155	2092826	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0559-MSD1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 23:25:05
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			35614	65312	0	Standard
>	Ge	72		ug/L			44012	42367	1	KED
	Cu	63	28.592	ug/L	0.642	2	22	121994	1	KED
	Cu	65	28.272	ug/L	0.376	1	15	60910	0	KED
	Zn	66	112.893	ug/L	2.272	2	28	66243	2	KED
	Zn	67	114.394	ug/L	1.227	1	3	11107	2	KED
	As	75	26.407	ug/L	0.185	0	2	7968	1	KED
	Se	78	83.964	ug/L	2.540	3	10	2472	1	KED
	Kr	83		ug/L			62	53	19	Standard
>	In	115		ug/L			427940	427435	1	Standard
	Sb	121	26.652	ug/L	0.493	1	212	312933	1	Standard
	Sb	123	27.235	ug/L	0.130	0	160	243897	1	Standard
>	Tb	159		ug/L			188760	197000	0	Standard
	Tl	205	26.957	ug/L	0.257	0	78	1583284	1	Standard
	Pb	208	27.531	ug/L	0.171	0	155	2060499	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLC
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 23:29:02
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35614	38147	0	Standard
⌈>	**Ge**	**72**		ug/L			44012	44216	1	KED
|	**Cu**	**63**	**0.008**	ug/L	0.001	15	22	59	8	KED
|	**Cu**	**65**	**0.006**	ug/L	0.004	71	15	28	30	KED
|	**Zn**	**66**	**0.072**	ug/L	0.037	51	28	72	29	KED
|	**Zn**	**67**	**0.068**	ug/L	0.057	82	3	10	57	KED
|	**As**	**75**	**0.007**	ug/L	0.004	60	2	4	30	KED
⌊	**Se**	**78**	**0.018**	ug/L	0.111	624	10	11	30	KED
	Kr	**83**		ug/L			62	45	34	Standard
⌈>	**In**	**115**		ug/L			427940	420891	0	Standard
|	**Sb**	**121**	**-0.011**	ug/L	0.001	5	212	84	6	Standard
⌊	**Sb**	**123**	**-0.011**	ug/L	0.000	3	160	63	4	Standard
⌈>	**Tb**	**159**		ug/L			188760	192853	2	Standard
|	**Tl**	**205**	**0.001**	ug/L	0.000	11	78	140	6	Standard
⌊	**Pb**	**208**	**0.003**	ug/L	0.000	6	155	412	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVB
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 23:33:05
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35614	38473	2	Standard
⌈>	**Ge**	**72**		ug/L			44012	44192	0	KED
|	**Cu**	**63**	**50.437**	ug/L	1.833	3	22	224475	3	KED
|	**Cu**	**65**	**49.977**	ug/L	1.074	2	15	112309	1	KED
|	**Zn**	**66**	**50.269**	ug/L	1.285	2	28	30784	2	KED
|	**Zn**	**67**	**51.994**	ug/L	1.251	2	3	5267	1	KED
|	**As**	**75**	**49.631**	ug/L	0.345	0	2	15620	0	KED
⌊	**Se**	**78**	**50.652**	ug/L	0.911	1	10	1560	1	KED
	Kr	**83**		ug/L			62	48	33	Standard
⌈>	**In**	**115**		ug/L			427940	437144	1	Standard
|	**Sb**	**121**	**49.920**	ug/L	2.434	4	212	599160	4	Standard
⌊	**Sb**	**123**	**50.723**	ug/L	2.264	4	160	464397	4	Standard
⌈>	**Tb**	**159**		ug/L			188760	201422	0	Standard
|	**Tl**	**205**	**51.628**	ug/L	1.114	2	78	3100150	1	Standard
⌊	**Pb**	**208**	**51.485**	ug/L	0.782	1	155	3939623	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBB
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 23:39:52
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35614	37351	1	Standard
⌈>	**Ge**	**72**		ug/L			44012	44510	1	KED
|	**Cu**	**63**	**0.000**	ug/L	0.001	568	22	23	24	KED
|	**Cu**	**65**	**-0.000**	ug/L	0.001	660	15	15	6	KED
|	**Zn**	**66**	**0.054**	ug/L	0.017	30	28	62	17	KED
|	**Zn**	**67**	**0.037**	ug/L	0.010	26	3	6	15	KED
|	**As**	**75**	**0.005**	ug/L	0.006	132	2	3	54	KED
⌊	**Se**	**78**	**0.099**	ug/L	0.026	26	10	14	5	KED
	Kr	**83**		ug/L			62	48	21	Standard
⌈>	**In**	**115**		ug/L			427940	425708	0	Standard
|	**Sb**	**121**	**0.030**	ug/L	0.005	16	212	557	9	Standard
⌊	**Sb**	**123**	**0.033**	ug/L	0.005	15	160	455	9	Standard
⌈>	**Tb**	**159**		ug/L			188760	193956	1	Standard
|	**Tl**	**205**	**0.002**	ug/L	0.000	20	78	220	14	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	20	155	252	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0150-09
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 23:43:55
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35614	68784	1	Standard
⌈>	**Ge**	**72**		ug/L			44012	39559	0	KED
|	**Cu**	**63**	**3.741**	ug/L	0.099	2	22	14922	2	KED
|	**Cu**	**65**	**3.778**	ug/L	0.090	2	15	7614	3	KED
|	**Zn**	**66**	**1.196**	ug/L	0.027	2	28	680	2	KED
|	**Zn**	**67**	**6.000**	ug/L	0.107	1	3	546	2	KED
|	**As**	**75**	**0.130**	ug/L	0.007	5	2	38	5	KED
⌊	**Se**	**78**	**0.030**	ug/L	0.036	118	10	10	9	KED
	Kr	**83**		ug/L			62	31	36	Standard
⌈>	**In**	**115**		ug/L			427940	444018	1	Standard
|	**Sb**	**121**	**0.040**	ug/L	0.003	7	212	706	4	Standard
⌊	**Sb**	**123**	**0.047**	ug/L	0.003	6	160	606	5	Standard
⌈>	**Tb**	**159**		ug/L			188760	202249	0	Standard
|	**Tl**	**205**	**0.012**	ug/L	0.001	6	78	815	5	Standard
⌊	**Pb**	**208**	**0.130**	ug/L	0.001	1	155	10157	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0150-13
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 23:46:51
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35614	69559	0	Standard
>	**Ge**	**72**		ug/L			44012	38218	0	KED
	Cu	**63**	**2.490**	ug/L	0.054	2	22	9604	1	KED
	Cu	**65**	**2.580**	ug/L	0.017	0	15	5026	1	KED
	Zn	**66**	**1.626**	ug/L	0.104	6	28	885	6	KED
	Zn	**67**	**6.004**	ug/L	0.615	10	3	528	9	KED
	As	**75**	**0.057**	ug/L	0.003	4	2	17	4	KED
	Se	**78**	**0.079**	ug/L	0.182	230	10	11	40	KED
	Kr	**83**		ug/L			62	72	44	Standard
>	**In**	**115**		ug/L			427940	391329	17	Standard
	Sb	**121**	**0.027**	ug/L	0.004	16	212	483	18	Standard
	Sb	**123**	**0.025**	ug/L	0.008	30	160	359	30	Standard
>	**Tb**	**159**		ug/L			188760	182861	16	Standard
	Tl	**205**	**0.023**	ug/L	0.007	31	78	1383	42	Standard
	Pb	**208**	**0.130**	ug/L	0.015	11	155	9080	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0150-15
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 23:50:17
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35614	62799	0	Standard
⌈>	**Ge**	**72**		ug/L			44012	38100	2	KED
|	**Cu**	**63**	**0.068**	ug/L	0.005	7	22	280	7	KED
|	**Cu**	**65**	**0.082**	ug/L	0.014	17	15	172	17	KED
|	**Zn**	**66**	**0.575**	ug/L	0.064	11	28	328	10	KED
|	**Zn**	**67**	**7.878**	ug/L	0.601	7	3	690	8	KED
|	**As**	**75**	**0.011**	ug/L	0.008	77	2	4	48	KED
⌊	**Se**	**78**	**0.081**	ug/L	0.046	56	10	11	8	KED
	Kr	**83**		ug/L			62	40	13	Standard
⌈>	**In**	**115**		ug/L			427940	442837	1	Standard
|	**Sb**	**121**	**-0.004**	ug/L	0.002	45	212	165	13	Standard
⌊	**Sb**	**123**	**-0.001**	ug/L	0.002	198	160	158	11	Standard
⌈>	**Tb**	**159**		ug/L			188760	197902	0	Standard
|	**Tl**	**205**	**0.000**	ug/L	0.000	35	78	92	3	Standard
⌊	**Pb**	**208**	**0.006**	ug/L	0.001	16	155	628	12	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0150-17
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 23:54:43
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35614	63022	0	Standard
⌈>	**Ge**	**72**		ug/L			44012	38910	2	KED
|	**Cu**	**63**	**0.226**	ug/L	0.010	4	22	906	4	KED
|	**Cu**	**65**	**0.243**	ug/L	0.012	4	15	493	3	KED
|	**Zn**	**66**	**1.057**	ug/L	0.080	7	28	594	5	KED
|	**Zn**	**67**	**5.844**	ug/L	0.381	6	3	523	6	KED
|	**As**	**75**	**0.014**	ug/L	0.005	38	2	5	24	KED
⌊	**Se**	**78**	**0.052**	ug/L	0.136	262	10	11	32	KED
	Kr	**83**		ug/L			62	35	26	Standard
⌈>	**In**	**115**		ug/L			427940	452398	0	Standard
|	**Sb**	**121**	**-0.003**	ug/L	0.000	13	212	193	2	Standard
⌊	**Sb**	**123**	**-0.001**	ug/L	0.001	208	160	164	7	Standard
⌈>	**Tb**	**159**		ug/L			188760	203165	1	Standard
|	**Tl**	**205**	**0.001**	ug/L	0.000	22	78	147	9	Standard
⌊	**Pb**	**208**	**0.072**	ug/L	0.001	1	155	5744	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLD
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 03, 2023 23:57:40
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35614	37641	1	Standard
⌈>	**Ge**	**72**		ug/L			44012	39409	0	KED
|	**Cu**	**63**	**0.004**	ug/L	0.003	72	22	34	29	KED
|	**Cu**	**65**	**0.003**	ug/L	0.000	2	15	20	0	KED
|	**Zn**	**66**	**0.054**	ug/L	0.034	62	28	55	32	KED
|	**Zn**	**67**	**0.137**	ug/L	0.041	29	3	15	25	KED
|	**As**	**75**	**0.001**	ug/L	0.005	321	2	2	52	KED
⌊	**Se**	**78**	**0.075**	ug/L	0.095	126	10	11	22	KED
	Kr	**83**		ug/L			62	43	6	Standard
⌈>	**In**	**115**		ug/L			427940	433210	3	Standard
|	**Sb**	**121**	**-0.013**	ug/L	0.000	2	212	59	5	Standard
⌊	**Sb**	**123**	**-0.014**	ug/L	0.001	9	160	38	25	Standard
⌈>	**Tb**	**159**		ug/L			188760	194221	0	Standard
|	**Tl**	**205**	**-0.001**	ug/L	0.000	43	78	49	26	Standard
⌊	**Pb**	**208**	**0.002**	ug/L	0.000	1	155	310	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0150-19
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 00:00:43
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35614	62348	3	Standard
⌈>	**Ge**	**72**		ug/L			44012	37545	1	KED
|	**Cu**	**63**	**0.278**	ug/L	0.021	7	22	1068	7	KED
|	**Cu**	**65**	**0.294**	ug/L	0.006	2	15	574	1	KED
|	**Zn**	**66**	**0.908**	ug/L	0.077	8	28	495	6	KED
|	**Zn**	**67**	**5.353**	ug/L	0.392	7	3	462	5	KED
|	**As**	**75**	**0.040**	ug/L	0.010	24	2	12	21	KED
⌊	**Se**	**78**	**-0.060**	ug/L	0.062	102	10	7	22	KED
	Kr	**83**		ug/L			62	46	27	Standard
⌈>	**In**	**115**		ug/L			427940	425358	1	Standard
|	**Sb**	**121**	**0.003**	ug/L	0.002	74	212	246	8	Standard
⌊	**Sb**	**123**	**0.004**	ug/L	0.002	54	160	195	9	Standard
⌈>	**Tb**	**159**		ug/L			188760	195818	1	Standard
|	**Tl**	**205**	**0.001**	ug/L	0.001	38	78	158	19	Standard
⌊	**Pb**	**208**	**0.007**	ug/L	0.001	7	155	660	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0145-01
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 00:03:40
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35614	82995	0	Standard
⌈>	**Ge**	**72**		ug/L			44012	37868	1	KED
|	**Cu**	**63**	**1.475**	ug/L	0.025	1	22	5643	1	KED
|	**Cu**	**65**	**1.483**	ug/L	0.026	1	15	2868	1	KED
|	**Zn**	**66**	**2.820**	ug/L	0.192	6	28	1502	5	KED
|	**Zn**	**67**	**4.497**	ug/L	0.639	14	3	393	14	KED
|	**As**	**75**	**0.315**	ug/L	0.026	8	2	86	8	KED
⌊	**Se**	**78**	**0.041**	ug/L	0.058	140	10	10	13	KED
	Kr	**83**		ug/L			62	48	8	Standard
⌈>	**In**	**115**		ug/L			427940	445823	1	Standard
|	**Sb**	**121**	**0.046**	ug/L	0.003	7	212	780	5	Standard
⌊	**Sb**	**123**	**0.049**	ug/L	0.001	1	160	627	1	Standard
⌈>	**Tb**	**159**		ug/L			188760	201090	1	Standard
|	**Tl**	**205**	**0.001**	ug/L	0.000	25	78	155	10	Standard
⌊	**Pb**	**208**	**0.047**	ug/L	0.002	3	155	3727	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0145-03
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 00:07:06
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35614	73177	1	Standard
⌈>	**Ge**	**72**		ug/L			44012	39390	1	KED
|	**Cu**	**63**	**1.713**	ug/L	0.046	2	22	6812	1	KED
|	**Cu**	**65**	**1.726**	ug/L	0.065	3	15	3468	2	KED
|	**Zn**	**66**	**2.762**	ug/L	0.017	0	28	1532	1	KED
|	**Zn**	**67**	**4.689**	ug/L	0.159	3	3	426	3	KED
|	**As**	**75**	**2.206**	ug/L	0.073	3	2	620	2	KED
⌊	**Se**	**78**	**0.026**	ug/L	0.083	325	10	10	21	KED
	Kr	**83**		ug/L			62	37	15	Standard
⌈>	**In**	**115**		ug/L			427940	434526	2	Standard
|	**Sb**	**121**	**0.054**	ug/L	0.004	7	212	859	3	Standard
⌊	**Sb**	**123**	**0.057**	ug/L	0.006	10	160	683	5	Standard
⌈>	**Tb**	**159**		ug/L			188760	201876	2	Standard
|	**Tl**	**205**	**0.003**	ug/L	0.000	13	78	260	11	Standard
⌊	**Pb**	**208**	**0.271**	ug/L	0.008	2	155	20908	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0145-05
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 00:11:32
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35614	76035	1	Standard
⌈>	**Ge**	**72**		ug/L			44012	38844	0	KED
|	**Cu**	**63**	**0.822**	ug/L	0.004	0	22	3236	1	KED
|	**Cu**	**65**	**0.808**	ug/L	0.038	4	15	1608	4	KED
|	**Zn**	**66**	**6.962**	ug/L	0.223	3	28	3768	2	KED
|	**Zn**	**67**	**9.695**	ug/L	0.442	4	3	865	3	KED
|	**As**	**75**	**1.256**	ug/L	0.122	9	2	349	9	KED
⌊	**Se**	**78**	**0.094**	ug/L	0.080	84	10	12	17	KED
	Kr	**83**		ug/L			62	43	31	Standard
⌈>	**In**	**115**		ug/L			427940	439297	1	Standard
|	**Sb**	**121**	**0.063**	ug/L	0.004	6	212	977	6	Standard
⌊	**Sb**	**123**	**0.062**	ug/L	0.002	3	160	735	3	Standard
⌈>	**Tb**	**159**		ug/L			188760	201402	1	Standard
|	**Tl**	**205**	**0.002**	ug/L	0.000	7	78	226	3	Standard
⌊	**Pb**	**208**	**0.209**	ug/L	0.004	1	155	16128	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLE
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 00:14:29
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35614	38478	1	Standard
⌈>	**Ge**	**72**		ug/L			44012	38644	0	KED
|	**Cu**	**63**	**0.005**	ug/L	0.001	21	22	38	10	KED
|	**Cu**	**65**	**0.003**	ug/L	0.003	131	15	19	34	KED
|	**Zn**	**66**	**0.091**	ug/L	0.014	15	28	73	10	KED
|	**Zn**	**67**	**0.097**	ug/L	0.037	37	3	11	28	KED
|	**As**	**75**	**-0.001**	ug/L	0.004	279	2	1	62	KED
⌊	**Se**	**78**	**0.044**	ug/L	0.076	171	10	10	18	KED
	Kr	**83**		ug/L			62	44	13	Standard
⌈>	**In**	**115**		ug/L			427940	430505	0	Standard
|	**Sb**	**121**	**-0.014**	ug/L	0.001	5	212	44	19	Standard
⌊	**Sb**	**123**	**-0.014**	ug/L	0.001	3	160	36	12	Standard
⌈>	**Tb**	**159**		ug/L			188760	194324	1	Standard
|	**Tl**	**205**	**-0.000**	ug/L	0.000	21	78	52	11	Standard
⌊	**Pb**	**208**	**0.002**	ug/L	0.000	18	155	339	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVC
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 00:17:32
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35614	38056	2	Standard
⌈>	**Ge**	**72**		ug/L			44012	36694	9	KED
|	**Cu**	**63**	**56.712**	ug/L	6.018	10	22	208222	0	KED
|	**Cu**	**65**	**56.266**	ug/L	5.235	9	15	104387	0	KED
|	**Zn**	**66**	**54.995**	ug/L	4.967	9	28	27810	2	KED
|	**Zn**	**67**	**54.776**	ug/L	6.376	11	3	4574	2	KED
|	**As**	**75**	**53.422**	ug/L	5.155	9	2	13877	0	KED
⌊	**Se**	**78**	**52.245**	ug/L	4.028	7	10	1330	2	KED
	Kr	**83**		ug/L			62	58	19	Standard
⌈>	**In**	**115**		ug/L			427940	424563	1	Standard
|	**Sb**	**121**	**52.212**	ug/L	1.341	2	212	608605	1	Standard
⌊	**Sb**	**123**	**52.161**	ug/L	2.102	4	160	463689	2	Standard
⌈>	**Tb**	**159**		ug/L			188760	199628	1	Standard
|	**Tl**	**205**	**52.247**	ug/L	0.680	1	78	3109002	0	Standard
⌊	**Pb**	**208**	**51.679**	ug/L	1.104	2	155	3918297	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBC
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 00:23:19
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35614	37224	3	Standard
⌈>	**Ge**	**72**		ug/L			44012	39541	0	KED
|	**Cu**	**63**	**-0.000**	ug/L	0.002	1037	22	19	51	KED
|	**Cu**	**65**	**-0.002**	ug/L	0.003	134	15	10	54	KED
|	**Zn**	**66**	**0.062**	ug/L	0.023	37	28	59	21	KED
|	**Zn**	**67**	**0.039**	ug/L	0.024	62	3	6	34	KED
|	**As**	**75**	**0.008**	ug/L	0.002	20	2	4	11	KED
⌊	**Se**	**78**	**-0.025**	ug/L	0.097	386	10	9	29	KED
	Kr	**83**		ug/L			62	43	24	Standard
⌈>	**In**	**115**		ug/L			427940	424615	0	Standard
|	**Sb**	**121**	**0.025**	ug/L	0.001	5	212	499	2	Standard
⌊	**Sb**	**123**	**0.027**	ug/L	0.002	7	160	397	5	Standard
⌈>	**Tb**	**159**		ug/L			188760	191944	0	Standard
|	**Tl**	**205**	**0.002**	ug/L	0.000	23	78	170	11	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	27	155	208	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0073-01
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 00:26:22
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35614	69422	2	Standard
⌈>	**Ge**	**72**		ug/L			44012	36459	1	KED
|	**Cu**	**63**	**0.436**	ug/L	0.016	3	22	1620	1	KED
|	**Cu**	**65**	**0.448**	ug/L	0.024	5	15	843	3	KED
|	**Zn**	**66**	**2.029**	ug/L	0.044	2	28	1048	3	KED
|	**Zn**	**67**	**2.587**	ug/L	0.391	15	3	218	13	KED
|	**As**	**75**	**0.547**	ug/L	0.049	9	2	143	9	KED
⌊	**Se**	**78**	**0.133**	ug/L	0.068	50	10	12	12	KED
	Kr	**83**		ug/L			62	48	8	Standard
⌈>	**In**	**115**		ug/L			427940	438998	2	Standard
|	**Sb**	**121**	**0.054**	ug/L	0.005	8	212	869	6	Standard
⌊	**Sb**	**123**	**0.057**	ug/L	0.001	2	160	692	3	Standard
⌈>	**Tb**	**159**		ug/L			188760	197743	1	Standard
|	**Tl**	**205**	**0.002**	ug/L	0.000	2	78	208	1	Standard
⌊	**Pb**	**208**	**0.015**	ug/L	0.001	4	155	1259	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0075-03
Sample Dil Factor: 5
Comments:
Sample Date/Time: Thursday, May 04, 2023 00:29:18

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35614	58208	1	Standard
>	**Ge**	**72**		ug/L			44012	34453	0	KED
	Cu	**63**	**0.654**	ug/L	0.021	3	22	2287	2	KED
	Cu	**65**	**0.692**	ug/L	0.022	3	15	1225	3	KED
	Zn	**66**	**3.401**	ug/L	0.197	5	28	1644	5	KED
	Zn	**67**	**3.845**	ug/L	0.298	7	3	306	8	KED
	As	**75**	**0.290**	ug/L	0.026	8	2	72	9	KED
	Se	**78**	**0.094**	ug/L	0.079	83	10	10	17	KED
	Kr	**83**		ug/L			62	50	34	Standard
>	**In**	**115**		ug/L			427940	392832	2	Standard
	Sb	**121**	**0.084**	ug/L	0.002	2	212	1103	2	Standard
	Sb	**123**	**0.079**	ug/L	0.005	6	160	800	5	Standard
>	**Tb**	**159**		ug/L			188760	190947	1	Standard
	Tl	**205**	**0.001**	ug/L	0.000	30	78	108	9	Standard
	Pb	**208**	**0.072**	ug/L	0.002	2	155	5396	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0099-01
Sample Dil Factor: 5
Comments:
Sample Date/Time: Thursday, May 04, 2023 00:32:15
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35614	151287	1	Standard
⌈>	**Ge**	**72**		ug/L			44012	36756	0	KED
|	**Cu**	**63**	**0.605**	ug/L	0.024	3	22	2256	3	KED
|	**Cu**	**65**	**0.635**	ug/L	0.058	9	15	1200	9	KED
|	**Zn**	**66**	**19.288**	ug/L	0.336	1	28	9839	1	KED
|	**Zn**	**67**	**17.915**	ug/L	0.457	2	3	1511	2	KED
|	**As**	**75**	**0.097**	ug/L	0.009	9	2	27	8	KED
⌊	**Se**	**78**	**0.033**	ug/L	0.061	184	10	10	15	KED
	Kr	**83**		ug/L			62	43	17	Standard
⌈>	**In**	**115**		ug/L			427940	449729	0	Standard
|	**Sb**	**121**	**0.086**	ug/L	0.003	3	212	1281	3	Standard
⌊	**Sb**	**123**	**0.094**	ug/L	0.007	7	160	1054	5	Standard
⌈>	**Tb**	**159**		ug/L			188760	193987	1	Standard
|	**Tl**	**205**	**0.001**	ug/L	0.000	35	78	123	12	Standard
⌊	**Pb**	**208**	**0.043**	ug/L	0.002	4	155	3330	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0145-07
Sample Dil Factor: 5
Comments:
Sample Date/Time: Thursday, May 04, 2023 00:36:41
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35614	52963	0	Standard
⌈>	**Ge**	**72**		ug/L			44012	38545	1	KED
|	**Cu**	**63**	**0.679**	ug/L	0.012	1	22	2656	0	KED
|	**Cu**	**65**	**0.691**	ug/L	0.005	0	15	1367	1	KED
|	**Zn**	**66**	**4.025**	ug/L	0.086	2	28	2173	3	KED
|	**Zn**	**67**	**3.883**	ug/L	0.408	10	3	345	9	KED
|	**As**	**75**	**0.190**	ug/L	0.007	3	2	54	4	KED
⌊	**Se**	**78**	**-0.070**	ug/L	0.043	61	10	7	13	KED
	Kr	**83**		ug/L			62	49	23	Standard
⌈>	**In**	**115**		ug/L			427940	458545	2	Standard
|	**Sb**	**121**	**0.000**	ug/L	0.003	1933	212	229	12	Standard
⌊	**Sb**	**123**	**0.001**	ug/L	0.002	167	160	181	9	Standard
⌈>	**Tb**	**159**		ug/L			188760	204641	1	Standard
|	**Tl**	**205**	**0.005**	ug/L	0.000	9	78	371	7	Standard
⌊	**Pb**	**208**	**0.218**	ug/L	0.003	1	155	17139	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLF
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 00:40:08
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35614	37554	1	Standard
⌈>	**Ge**	**72**		ug/L			44012	37880	1	KED
|	**Cu**	**63**	**0.005**	ug/L	0.001	30	22	37	15	KED
|	**Cu**	**65**	**0.006**	ug/L	0.006	104	15	24	48	KED
|	**Zn**	**66**	**0.080**	ug/L	0.008	9	28	66	5	KED
|	**Zn**	**67**	**0.107**	ug/L	0.031	29	3	12	24	KED
|	**As**	**75**	**0.002**	ug/L	0.003	201	2	2	40	KED
⌊	**Se**	**78**	**0.045**	ug/L	0.082	182	10	10	20	KED
	Kr	**83**		ug/L			62	46	24	Standard
⌈>	**In**	**115**		ug/L			427940	445212	1	Standard
|	**Sb**	**121**	**-0.012**	ug/L	0.001	6	212	76	12	Standard
⌊	**Sb**	**123**	**-0.012**	ug/L	0.001	5	160	51	13	Standard
⌈>	**Tb**	**159**		ug/L			188760	193734	0	Standard
|	**Tl**	**205**	**-0.000**	ug/L	0.000	149	78	73	14	Standard
⌊	**Pb**	**208**	**0.003**	ug/L	0.000	9	155	368	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0111-02
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 00:43:10
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35614	74107	1	Standard
⌈>	**Ge**	**72**		ug/L			44012	37286	1	KED
|	**Cu**	**63**	**10.724**	ug/L	0.140	1	22	40286	1	KED
|	**Cu**	**65**	**10.874**	ug/L	0.080	0	15	20628	1	KED
|	**Zn**	**66**	**62.237**	ug/L	1.307	2	28	32147	1	KED
|	**Zn**	**67**	**57.362**	ug/L	2.187	3	3	4901	3	KED
|	**As**	**75**	**0.571**	ug/L	0.022	3	2	153	5	KED
⌊	**Se**	**78**	**-0.007**	ug/L	0.044	595	10	9	11	KED
	Kr	**83**		ug/L			62	46	19	Standard
⌈>	**In**	**115**		ug/L			427940	440860	3	Standard
|	**Sb**	**121**	**0.477**	ug/L	0.027	5	212	5987	2	Standard
⌊	**Sb**	**123**	**0.476**	ug/L	0.024	4	160	4552	2	Standard
⌈>	**Tb**	**159**		ug/L			188760	200851	1	Standard
|	**Tl**	**205**	**0.002**	ug/L	0.000	21	78	201	12	Standard
⌊	**Pb**	**208**	**0.842**	ug/L	0.011	1	155	64433	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0113-01
Sample Dil Factor: 100
Comments:
Sample Date/Time: Thursday, May 04, 2023 00:46:13
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35614	44647	0	Standard
⌈>	**Ge**	**72**		ug/L			44012	38531	1	KED
|	**Cu**	**63**	**6.826**	ug/L	0.139	2	22	26502	0	KED
|	**Cu**	**65**	**6.855**	ug/L	0.219	3	15	13439	1	KED
|	**Zn**	**66**	**46.368**	ug/L	0.748	1	28	24758	0	KED
|	**Zn**	**67**	**43.841**	ug/L	0.370	0	3	3872	1	KED
|	**As**	**75**	**0.079**	ug/L	0.017	20	2	23	20	KED
⌊	**Se**	**78**	**-0.103**	ug/L	0.056	54	10	6	20	KED
	Kr	**83**		ug/L			62	36	14	Standard
⌈>	**In**	**115**		ug/L			427940	456009	2	Standard
|	**Sb**	**121**	**0.047**	ug/L	0.005	11	212	815	6	Standard
⌊	**Sb**	**123**	**0.048**	ug/L	0.006	12	160	629	8	Standard
⌈>	**Tb**	**159**		ug/L			188760	202778	0	Standard
|	**Tl**	**205**	**0.000**	ug/L	0.000	89	78	96	11	Standard
⌊	**Pb**	**208**	**25.135**	ug/L	0.229	0	155	1936215	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0147-01
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 00:49:09
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35614	62794	0	Standard
⌈>	**Ge**	**72**		ug/L			44012	36697	1	KED
|	**Cu**	**63**	**1.653**	ug/L	0.031	1	22	6128	0	KED
|	**Cu**	**65**	**1.652**	ug/L	0.016	0	15	3096	1	KED
|	**Zn**	**66**	**23.360**	ug/L	0.411	1	28	11891	0	KED
|	**Zn**	**67**	**21.991**	ug/L	0.793	3	3	1850	2	KED
|	**As**	**75**	**6.690**	ug/L	0.057	0	2	1749	1	KED
⌊	**Se**	**78**	**0.120**	ug/L	0.099	82	10	12	21	KED
	Kr	**83**		ug/L			62	46	6	Standard
⌈>	**In**	**115**		ug/L			427940	444192	1	Standard
|	**Sb**	**121**	**0.270**	ug/L	0.005	1	212	3510	2	Standard
⌊	**Sb**	**123**	**0.267**	ug/L	0.002	0	160	2648	0	Standard
⌈>	**Tb**	**159**		ug/L			188760	199575	1	Standard
|	**Tl**	**205**	**0.001**	ug/L	0.000	22	78	154	9	Standard
⌊	**Pb**	**208**	**0.416**	ug/L	0.015	3	155	31706	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0205-02
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 00:52:05

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35614	78020	0	Standard
>	**Ge**	**72**		ug/L			44012	36138	0	KED
	Cu	**63**	**10.965**	ug/L	0.220	2	22	39924	1	KED
	Cu	**65**	**10.920**	ug/L	0.139	1	15	20078	1	KED
	Zn	**66**	**27.492**	ug/L	0.833	3	28	13777	2	KED
	Zn	**67**	**28.280**	ug/L	1.150	4	3	2344	4	KED
	As	**75**	**1.539**	ug/L	0.051	3	2	397	2	KED
	Se	**78**	**0.106**	ug/L	0.100	94	10	11	20	KED
	Kr	**83**		ug/L			62	46	19	Standard
>	**In**	**115**		ug/L			427940	423760	1	Standard
	Sb	**121**	**2.589**	ug/L	0.014	0	212	30333	1	Standard
	Sb	**123**	**2.646**	ug/L	0.021	0	160	23638	1	Standard
>	**Tb**	**159**		ug/L			188760	195143	1	Standard
	Tl	**205**	**0.003**	ug/L	0.000	7	78	234	5	Standard
	Pb	**208**	**0.719**	ug/L	0.006	0	155	53454	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLG
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 00:55:33
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35614	37593	0	Standard
⌈>	**Ge**	**72**		ug/L			44012	37885	1	KED
|	**Cu**	**63**	**0.006**	ug/L	0.003	46	22	41	25	KED
|	**Cu**	**65**	**0.005**	ug/L	0.002	30	15	24	12	KED
|	**Zn**	**66**	**0.090**	ug/L	0.031	33	28	71	22	KED
|	**Zn**	**67**	**0.152**	ug/L	0.073	47	3	15	38	KED
|	**As**	**75**	**-0.000**	ug/L	0.005	6578	2	1	75	KED
⌊	**Se**	**78**	**-0.069**	ug/L	0.043	62	10	7	16	KED
	Kr	**83**		ug/L			62	48	6	Standard
⌈>	**In**	**115**		ug/L			427940	434560	3	Standard
|	**Sb**	**121**	**-0.015**	ug/L	0.000	3	212	39	16	Standard
⌊	**Sb**	**123**	**-0.014**	ug/L	0.001	4	160	33	16	Standard
⌈>	**Tb**	**159**		ug/L			188760	196285	1	Standard
|	**Tl**	**205**	**-0.000**	ug/L	0.000	71	78	72	10	Standard
⌊	**Pb**	**208**	**0.002**	ug/L	0.000	17	155	331	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVD
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 00:58:36
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35614	37928	1	Standard
⌈>	**Ge**	**72**		ug/L			44012	38459	1	KED
|	**Cu**	**63**	**52.372**	ug/L	1.228	2	22	202844	1	KED
|	**Cu**	**65**	**52.225**	ug/L	0.558	1	15	102132	0	KED
|	**Zn**	**66**	**50.956**	ug/L	0.536	1	28	27156	0	KED
|	**Zn**	**67**	**50.464**	ug/L	0.445	0	3	4448	0	KED
|	**As**	**75**	**49.159**	ug/L	0.341	0	2	13465	1	KED
⌊	**Se**	**78**	**48.590**	ug/L	0.229	0	10	1303	1	KED
	Kr	**83**		ug/L			62	52	12	Standard
⌈>	**In**	**115**		ug/L			427940	436387	1	Standard
|	**Sb**	**121**	**51.076**	ug/L	1.652	3	212	611910	1	Standard
⌊	**Sb**	**123**	**51.744**	ug/L	1.438	2	160	472820	1	Standard
⌈>	**Tb**	**159**		ug/L			188760	197890	1	Standard
|	**Tl**	**205**	**53.448**	ug/L	1.695	3	78	3152199	1	Standard
⌊	**Pb**	**208**	**52.918**	ug/L	0.668	1	155	3977764	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBD
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 01:04:23
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			35614	36374	2	Standard
>	**Ge**	**72**		ug/L			44012	36675	9	KED
	Cu	**63**	**0.004**	ug/L	0.005	111	22	35	57	KED
	Cu	**65**	**0.003**	ug/L	0.007	262	15	18	74	KED
	Zn	**66**	**0.090**	ug/L	0.017	19	28	69	9	KED
	Zn	**67**	**0.044**	ug/L	0.032	73	3	6	45	KED
	As	**75**	**0.007**	ug/L	0.004	60	2	3	37	KED
	Se	**78**	**0.044**	ug/L	0.090	204	10	10	14	KED
	Kr	**83**		ug/L			62	47	28	Standard
>	**In**	**115**		ug/L			427940	437400	0	Standard
	Sb	**121**	**0.029**	ug/L	0.001	2	212	561	1	Standard
	Sb	**123**	**0.030**	ug/L	0.004	13	160	437	8	Standard
>	**Tb**	**159**		ug/L			188760	196119	1	Standard
	Tl	**205**	**0.001**	ug/L	0.000	30	78	158	13	Standard
	Pb	**208**	**0.001**	ug/L	0.000	20	155	247	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 01:07:25
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				36632	1	Standard
>	**Ge**	**72**		ug/L				38776	2	KED
	Cu	**63**		ug/L				40	80	KED
	Cu	**65**		ug/L				21	66	KED
	Zn	**66**		ug/L				58	15	KED
	Zn	**67**		ug/L				11	44	KED
	As	**75**		ug/L				3	55	KED
	Se	**78**		ug/L				7	27	KED
	Kr	**83**		ug/L				50	14	Standard
>	**In**	**115**		ug/L				449153	1	Standard
	Sb	**121**		ug/L				226	10	Standard
	Sb	**123**		ug/L				207	8	Standard
>	**Tb**	**159**		ug/L				197863	1	Standard
	Tl	**205**		ug/L				114	26	Standard
	Pb	**208**		ug/L				206	18	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVE
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 01:10:28
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			36632	37955	1	Standard
>	**Ge**	**72**		ug/L			38776	38616	0	KED
	Cu	**63**	**52.185**	ug/L	0.416	0	40	202998	0	KED
	Cu	**65**	**52.357**	ug/L	0.695	1	21	102825	1	KED
	Zn	**66**	**51.192**	ug/L	0.498	0	58	27429	1	KED
	Zn	**67**	**50.079**	ug/L	0.580	1	11	4441	1	KED
	As	**75**	**49.506**	ug/L	0.462	0	3	13617	1	KED
	Se	**78**	**49.015**	ug/L	1.129	2	7	1317	2	KED
	Kr	**83**		ug/L			50	62	8	Standard
>	**In**	**115**		ug/L			449153	438245	2	Standard
	Sb	**121**	**50.878**	ug/L	1.269	2	226	612117	1	Standard
	Sb	**123**	**51.790**	ug/L	2.715	5	207	474985	2	Standard
>	**Tb**	**159**		ug/L			197863	204978	1	Standard
	Tl	**205**	**51.298**	ug/L	0.804	1	114	3134651	1	Standard
	Pb	**208**	**50.797**	ug/L	0.290	0	206	3955540	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBE
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 01:16:15
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			36632	36435	2	Standard
⌈>	**Ge**	**72**		ug/L			38776	39099	1	KED
|	**Cu**	**63**	**-0.002**	ug/L	0.001	33	40	33	8	KED
|	**Cu**	**65**	**0.001**	ug/L	0.004	249	21	24	30	KED
|	**Zn**	**66**	**0.002**	ug/L	0.038	1513	58	60	34	KED
|	**Zn**	**67**	**-0.009**	ug/L	0.078	879	11	10	66	KED
|	**As**	**75**	**-0.001**	ug/L	0.005	375	3	2	50	KED
⌊	**Se**	**78**	**0.027**	ug/L	0.086	313	7	8	26	KED
	Kr	**83**		ug/L			50	54	21	Standard
⌈>	**In**	**115**		ug/L			449153	443773	1	Standard
|	**Sb**	**121**	**0.029**	ug/L	0.005	16	226	580	9	Standard
⌊	**Sb**	**123**	**0.026**	ug/L	0.001	4	207	450	1	Standard
⌈>	**Tb**	**159**		ug/L			197863	195499	0	Standard
|	**Tl**	**205**	**0.002**	ug/L	0.001	27	114	219	13	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	71	206	252	13	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0177-05
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 01:19:18
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			36632	63894	0	Standard
⌈>	Ge	72		ug/L			38776	39385	1	KED
|	Cu	63	63.023	ug/L	0.865	1	40	249985	0	KED
|	Cu	65	63.151	ug/L	0.862	1	21	126468	1	KED
|	Zn	66	58.852	ug/L	0.620	1	58	32149	1	KED
|	Zn	67	55.239	ug/L	0.230	0	11	4995	1	KED
|	As	75	0.478	ug/L	0.034	7	3	136	5	KED
⌊	Se	78	0.118	ug/L	0.056	47	7	10	12	KED
	Kr	83		ug/L			50	34	38	Standard
⌈>	In	115		ug/L			449153	452573	1	Standard
|	Sb	121	0.396	ug/L	0.013	3	226	5143	2	Standard
⌊	Sb	123	0.388	ug/L	0.012	3	207	3885	3	Standard
⌈>	Tb	159		ug/L			197863	203050	1	Standard
|	Tl	205	0.004	ug/L	0.002	46	114	363	29	Standard
⌊	Pb	208	0.660	ug/L	0.023	3	206	51070	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0177-01
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 01:22:20
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			36632	65581	1	Standard
⌈>	**Ge**	**72**		ug/L			38776	38581	1	KED
|	**Cu**	**63**	**54.083**	ug/L	0.663	1	40	210158	0	KED
|	**Cu**	**65**	**55.043**	ug/L	0.956	1	21	107977	0	KED
|	**Zn**	**66**	**43.136**	ug/L	0.567	1	58	23096	0	KED
|	**Zn**	**67**	**41.039**	ug/L	0.333	0	11	3638	1	KED
|	**As**	**75**	**0.329**	ug/L	0.029	8	3	93	6	KED
⌊	**Se**	**78**	**0.139**	ug/L	0.051	36	7	11	13	KED
	Kr	**83**		ug/L			50	43	13	Standard
⌈>	**In**	**115**		ug/L			449153	447676	0	Standard
|	**Sb**	**121**	**0.407**	ug/L	0.009	2	226	5221	1	Standard
⌊	**Sb**	**123**	**0.402**	ug/L	0.010	2	207	3974	3	Standard
⌈>	**Tb**	**159**		ug/L			197863	203319	0	Standard
|	**Tl**	**205**	**0.000**	ug/L	0.000	46	114	137	6	Standard
⌊	**Pb**	**208**	**0.652**	ug/L	0.001	0	206	50595	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0177-03
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 01:25:22
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			36632	65167	1	Standard
⌈>	**Ge**	**72**		ug/L			38776	38582	1	KED
|	**Cu**	**63**	**62.121**	ug/L	0.823	1	40	241393	0	KED
|	**Cu**	**65**	**61.918**	ug/L	0.973	1	21	121499	2	KED
|	**Zn**	**66**	**54.556**	ug/L	1.596	2	58	29196	2	KED
|	**Zn**	**67**	**52.520**	ug/L	1.221	2	11	4653	2	KED
|	**As**	**75**	**0.443**	ug/L	0.076	17	3	124	15	KED
⌊	**Se**	**78**	**0.067**	ug/L	0.068	101	7	9	21	KED
	Kr	**83**		ug/L			50	46	4	Standard
⌈>	**In**	**115**		ug/L			449153	452286	3	Standard
|	**Sb**	**121**	**0.380**	ug/L	0.017	4	226	4947	1	Standard
⌊	**Sb**	**123**	**0.386**	ug/L	0.009	2	207	3860	1	Standard
⌈>	**Tb**	**159**		ug/L			197863	201996	0	Standard
|	**Tl**	**205**	**0.001**	ug/L	0.000	29	114	205	11	Standard
⌊	**Pb**	**208**	**0.560**	ug/L	0.010	1	206	43185	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0177-07
Sample Dil Factor: 2x DILUTION
Comments:
Sample Date/Time: Thursday, May 04, 2023 01:28:24
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			36632	56836	0	Standard
⌈>	**Ge**	**72**		ug/L			38776	39701	1	KED
|	**Cu**	**63**	**78.250**	ug/L	1.629	2	40	312878	1	KED
|	**Cu**	**65**	**77.006**	ug/L	1.187	1	21	155466	1	KED
|	**Zn**	**66**	**59.688**	ug/L	0.781	1	58	32866	0	KED
|	**Zn**	**67**	**56.078**	ug/L	0.407	0	11	5112	1	KED
|	**As**	**75**	**0.442**	ug/L	0.012	2	3	127	2	KED
⌊	**Se**	**78**	**0.053**	ug/L	0.045	85	7	9	12	KED
	Kr	**83**		ug/L			50	46	12	Standard
⌈>	**In**	**115**		ug/L			449153	461405	4	Standard
|	**Sb**	**121**	**0.664**	ug/L	0.018	2	226	8633	2	Standard
⌊	**Sb**	**123**	**0.657**	ug/L	0.035	5	207	6554	1	Standard
⌈>	**Tb**	**159**		ug/L			197863	202299	0	Standard
|	**Tl**	**205**	**0.001**	ug/L	0.000	30	114	200	13	Standard
⌊	**Pb**	**208**	**0.942**	ug/L	0.014	1	206	72588	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0201-01
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 01:31:50
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			36632	70186	0	Standard
⌈>	**Ge**	**72**		ug/L			38776	38726	1	KED
|	**Cu**	**63**	**5.272**	ug/L	0.020	0	40	20602	1	KED
|	**Cu**	**65**	**5.363**	ug/L	0.072	1	21	10581	0	KED
|	**Zn**	**66**	**37.063**	ug/L	0.218	0	58	19930	0	KED
|	**Zn**	**67**	**34.434**	ug/L	0.440	1	11	3066	0	KED
|	**As**	**75**	**0.402**	ug/L	0.026	6	3	113	7	KED
⌊	**Se**	**78**	**0.156**	ug/L	0.059	37	7	11	13	KED
	Kr	**83**		ug/L			50	36	13	Standard
⌈>	**In**	**115**		ug/L			449153	461340	2	Standard
|	**Sb**	**121**	**0.144**	ug/L	0.009	6	226	2052	4	Standard
⌊	**Sb**	**123**	**0.140**	ug/L	0.003	2	207	1567	0	Standard
⌈>	**Tb**	**159**		ug/L			197863	203789	0	Standard
|	**Tl**	**205**	**0.002**	ug/L	0.000	10	114	227	4	Standard
⌊	**Pb**	**208**	**1.353**	ug/L	0.028	2	206	104977	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0201-02
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 01:34:52
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			36632	78413	2	Standard
⌈>	Ge	72		ug/L			38776	37009	1	KED
|	Cu	63	6.489	ug/L	0.131	2	40	24221	0	KED
|	Cu	65	6.524	ug/L	0.160	2	21	12294	1	KED
|	Zn	66	10.281	ug/L	0.380	3	58	5323	3	KED
|	Zn	67	10.757	ug/L	0.569	5	11	922	4	KED
|	As	75	1.499	ug/L	0.033	2	3	397	3	KED
⌊	Se	78	0.113	ug/L	0.081	71	7	9	19	KED
	Kr	83		ug/L			50	41	13	Standard
⌈>	In	115		ug/L			449153	438696	1	Standard
|	Sb	121	0.283	ug/L	0.008	2	226	3630	2	Standard
⌊	Sb	123	0.296	ug/L	0.004	1	207	2924	0	Standard
⌈>	Tb	159		ug/L			197863	201171	0	Standard
|	Tl	205	0.006	ug/L	0.001	11	114	457	8	Standard
⌊	Pb	208	1.054	ug/L	0.008	0	206	80742	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0218-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Thursday, May 04, 2023 01:37:49
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			36632	240235	1	Standard
⌈>	**Ge**	**72**		ug/L			38776	34769	1	KED
|	**Cu**	**63**	**2.815**	ug/L	0.016	0	40	9894	0	KED
|	**Cu**	**65**	**2.808**	ug/L	0.055	1	21	4983	2	KED
|	**Zn**	**66**	**46.990**	ug/L	1.080	2	58	22670	1	KED
|	**Zn**	**67**	**44.451**	ug/L	1.413	3	11	3550	3	KED
|	**As**	**75**	**0.262**	ug/L	0.002	0	3	67	1	KED
⌊	**Se**	**78**	**0.185**	ug/L	0.182	98	7	11	38	KED
	Kr	**83**		ug/L			50	48	18	Standard
⌈>	**In**	**115**		ug/L			449153	441257	1	Standard
|	**Sb**	**121**	**0.216**	ug/L	0.009	4	226	2832	2	Standard
⌊	**Sb**	**123**	**0.211**	ug/L	0.005	2	207	2153	2	Standard
⌈>	**Tb**	**159**		ug/L			197863	196946	2	Standard
|	**Tl**	**205**	**-0.001**	ug/L	0.000	60	114	70	35	Standard
⌊	**Pb**	**208**	**0.131**	ug/L	0.006	4	206	10024	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0221-01
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 01:40:45
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			36632	70459	0	Standard
⌈>	**Ge**	**72**		ug/L			38776	35500	7	KED
|	**Cu**	**63**	**1.835**	ug/L	0.185	10	40	6566	3	KED
|	**Cu**	**65**	**1.906**	ug/L	0.155	8	21	3446	2	KED
|	**Zn**	**66**	**57.703**	ug/L	4.425	7	58	28306	1	KED
|	**Zn**	**67**	**53.453**	ug/L	3.613	6	11	4342	1	KED
|	**As**	**75**	**0.230**	ug/L	0.015	6	3	60	5	KED
⌊	**Se**	**78**	**0.132**	ug/L	0.096	72	7	9	18	KED
	Kr	**83**		ug/L			50	41	10	Standard
⌈>	**In**	**115**		ug/L			449153	471379	1	Standard
|	**Sb**	**121**	**0.110**	ug/L	0.003	2	226	1654	0	Standard
⌊	**Sb**	**123**	**0.111**	ug/L	0.007	5	207	1312	4	Standard
⌈>	**Tb**	**159**		ug/L			197863	202005	0	Standard
|	**Tl**	**205**	**-0.000**	ug/L	0.000	156	114	105	18	Standard
⌊	**Pb**	**208**	**0.247**	ug/L	0.002	0	206	19191	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0245-01
Sample Dil Factor: 5
Comments:
Sample Date/Time: Thursday, May 04, 2023 01:43:42
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			36632	51970	1	Standard
⌈>	**Ge**	**72**		ug/L			38776	37416	0	KED
|	**Cu**	**63**	**56.646**	ug/L	0.604	1	40	213493	0	KED
|	**Cu**	**65**	**56.684**	ug/L	1.094	1	21	107858	1	KED
|	**Zn**	**66**	**40.195**	ug/L	0.296	0	58	20879	0	KED
|	**Zn**	**67**	**36.804**	ug/L	0.239	0	11	3166	1	KED
|	**As**	**75**	**0.083**	ug/L	0.015	17	3	24	16	KED
⌊	**Se**	**78**	**-0.015**	ug/L	0.073	491	7	6	28	KED
	Kr	**83**		ug/L			50	44	27	Standard
⌈>	**In**	**115**		ug/L			449153	458141	1	Standard
|	**Sb**	**121**	**0.189**	ug/L	0.004	2	226	2607	1	Standard
⌊	**Sb**	**123**	**0.191**	ug/L	0.006	3	207	2044	2	Standard
⌈>	**Tb**	**159**		ug/L			197863	196929	1	Standard
|	**Tl**	**205**	**-0.001**	ug/L	0.000	16	114	76	7	Standard
⌊	**Pb**	**208**	**3.944**	ug/L	0.089	2	206	295168	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLH
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 01:46:45
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			36632	36118	1	Standard
⌈>	**Ge**	**72**		ug/L			38776	37394	1	KED
|	**Cu**	**63**	**0.006**	ug/L	0.003	45	40	63	18	KED
|	**Cu**	**65**	**0.007**	ug/L	0.003	45	21	33	18	KED
|	**Zn**	**66**	**-0.062**	ug/L	0.008	12	58	24	16	KED
|	**Zn**	**67**	**-0.054**	ug/L	0.026	48	11	6	34	KED
|	**As**	**75**	**-0.004**	ug/L	0.005	124	3	1	83	KED
⌊	**Se**	**78**	**0.122**	ug/L	0.160	130	7	10	39	KED
	Kr	**83**		ug/L			50	50	15	Standard
⌈>	**In**	**115**		ug/L			449153	429694	1	Standard
|	**Sb**	**121**	**-0.014**	ug/L	0.001	4	226	46	16	Standard
⌊	**Sb**	**123**	**-0.018**	ug/L	0.001	4	207	35	23	Standard
⌈>	**Tb**	**159**		ug/L			197863	190357	0	Standard
|	**Tl**	**205**	**-0.001**	ug/L	0.000	3	114	39	7	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.000	38	206	143	15	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVF
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 01:49:48
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			36632	37694	1	Standard
⌈>	**Ge**	**72**		ug/L			38776	37677	1	KED
|	**Cu**	**63**	**53.032**	ug/L	1.199	2	40	201255	1	KED
|	**Cu**	**65**	**53.083**	ug/L	0.754	1	21	101701	0	KED
|	**Zn**	**66**	**51.525**	ug/L	0.882	1	58	26937	2	KED
|	**Zn**	**67**	**49.341**	ug/L	0.369	0	11	4270	1	KED
|	**As**	**75**	**49.403**	ug/L	0.594	1	3	13257	1	KED
⌊	**Se**	**78**	**47.526**	ug/L	1.305	2	7	1246	1	KED
	Kr	**83**		ug/L			50	62	19	Standard
⌈>	**In**	**115**		ug/L			449153	460504	1	Standard
|	**Sb**	**121**	**50.375**	ug/L	0.964	1	226	636997	0	Standard
⌊	**Sb**	**123**	**50.662**	ug/L	0.225	0	207	488715	1	Standard
⌈>	**Tb**	**159**		ug/L			197863	202722	1	Standard
|	**Tl**	**205**	**53.566**	ug/L	1.367	2	114	3236485	0	Standard
⌊	**Pb**	**208**	**52.186**	ug/L	1.377	2	206	4017846	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBF
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 01:55:35
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			36632	36516	1	Standard
⌈>	**Ge**	**72**		ug/L			38776	38361	1	KED
|	**Cu**	**63**	**-0.002**	ug/L	0.004	218	40	33	46	KED
|	**Cu**	**65**	**-0.003**	ug/L	0.002	62	21	14	27	KED
|	**Zn**	**66**	**-0.007**	ug/L	0.007	102	58	53	8	KED
|	**Zn**	**67**	**0.002**	ug/L	0.024	1451	11	11	16	KED
|	**As**	**75**	**0.003**	ug/L	0.006	199	3	3	43	KED
⌊	**Se**	**78**	**0.136**	ug/L	0.137	100	7	10	32	KED
	Kr	**83**		ug/L			50	35	11	Standard
⌈>	**In**	**115**		ug/L			449153	449607	2	Standard
|	**Sb**	**121**	**0.029**	ug/L	0.001	1	226	579	1	Standard
⌊	**Sb**	**123**	**0.025**	ug/L	0.005	20	207	444	8	Standard
⌈>	**Tb**	**159**		ug/L			197863	193575	0	Standard
|	**Tl**	**205**	**0.001**	ug/L	0.001	38	114	189	16	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.001	141	206	236	20	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0254-01
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 01:58:38
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			36632	70475	0	Standard
⌈>	**Ge**	**72**		ug/L			38776	37486	0	KED
|	**Cu**	**63**	**4.463**	ug/L	0.166	3	40	16887	2	KED
|	**Cu**	**65**	**4.480**	ug/L	0.047	1	21	8560	0	KED
|	**Zn**	**66**	**14.674**	ug/L	0.205	1	58	7672	1	KED
|	**Zn**	**67**	**14.490**	ug/L	0.481	3	11	1255	2	KED
|	**As**	**75**	**0.747**	ug/L	0.010	1	3	202	2	KED
⌊	**Se**	**78**	**0.122**	ug/L	0.045	37	7	10	11	KED
	Kr	**83**		ug/L			50	48	19	Standard
⌈>	**In**	**115**		ug/L			449153	457653	2	Standard
|	**Sb**	**121**	**0.219**	ug/L	0.005	2	226	2978	1	Standard
⌊	**Sb**	**123**	**0.223**	ug/L	0.010	4	207	2343	2	Standard
⌈>	**Tb**	**159**		ug/L			197863	200501	2	Standard
|	**Tl**	**205**	**0.001**	ug/L	0.000	39	114	185	16	Standard
⌊	**Pb**	**208**	**0.374**	ug/L	0.011	3	206	28674	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0266-01
Sample Dil Factor: 10
Comments:
Sample Date/Time: Thursday, May 04, 2023 02:01:34
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			36632	48456	0	Standard
⌈>	Ge	72		ug/L			38776	38018	1	KED
|	Cu	63	43.972	ug/L	0.788	1	40	168382	1	KED
|	Cu	65	44.160	ug/L	0.892	2	21	85369	0	KED
|	Zn	66	32.502	ug/L	0.992	3	58	17160	1	KED
|	Zn	67	29.159	ug/L	1.080	3	11	2550	2	KED
|	As	75	0.097	ug/L	0.011	11	3	29	11	KED
⌊	Se	78	0.090	ug/L	0.129	143	7	9	35	KED
	Kr	83		ug/L			50	43	5	Standard
⌈>	In	115		ug/L			449153	459194	2	Standard
|	Sb	121	0.084	ug/L	0.003	3	226	1292	0	Standard
⌊	Sb	123	0.082	ug/L	0.001	0	207	1000	2	Standard
⌈>	Tb	159		ug/L			197863	200436	1	Standard
|	Tl	205	-0.000	ug/L	0.000	49	114	96	9	Standard
⌊	Pb	208	2.071	ug/L	0.043	2	206	157910	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0278-01
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 02:04:30
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			36632	64827	1	Standard
⌈>	**Ge**	**72**		ug/L			38776	38433	1	KED
|	**Cu**	**63**	**1.124**	ug/L	0.023	2	40	4391	3	KED
|	**Cu**	**65**	**1.142**	ug/L	0.085	7	21	2251	6	KED
|	**Zn**	**66**	**240.962**	ug/L	1.543	0	58	128278	0	KED
|	**Zn**	**67**	**222.634**	ug/L	2.409	1	11	19615	1	KED
|	**As**	**75**	**0.246**	ug/L	0.011	4	3	70	3	KED
⌊	**Se**	**78**	**0.081**	ug/L	0.038	47	7	9	10	KED
	Kr	**83**		ug/L			50	34	29	Standard
⌈>	**In**	**115**		ug/L			449153	450232	3	Standard
|	**Sb**	**121**	**0.498**	ug/L	0.010	2	226	6385	2	Standard
⌊	**Sb**	**123**	**0.482**	ug/L	0.025	5	207	4746	2	Standard
⌈>	**Tb**	**159**		ug/L			197863	200446	2	Standard
|	**Tl**	**205**	**0.001**	ug/L	0.000	10	114	148	2	Standard
⌊	**Pb**	**208**	**0.174**	ug/L	0.007	3	206	13421	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0234-07
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 02:07:27
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			36632	67289	0	Standard
>	**Ge**	**72**		ug/L			38776	38562	2	KED
	Cu	**63**	**2.795**	ug/L	0.040	1	40	10895	1	KED
	Cu	**65**	**2.787**	ug/L	0.073	2	21	5483	0	KED
	Zn	**66**	**40.715**	ug/L	0.985	2	58	21792	2	KED
	Zn	**67**	**37.862**	ug/L	1.681	4	11	3355	3	KED
	As	**75**	**0.157**	ug/L	0.024	15	3	46	13	KED
	Se	**78**	**-0.022**	ug/L	0.115	533	7	6	44	KED
	Kr	**83**		ug/L			50	37	30	Standard
>	**In**	**115**		ug/L			449153	473211	3	Standard
	Sb	**121**	**0.608**	ug/L	0.009	1	226	8129	2	Standard
	Sb	**123**	**0.593**	ug/L	0.013	2	207	6089	2	Standard
>	**Tb**	**159**		ug/L			197863	197632	1	Standard
	Tl	**205**	**-0.001**	ug/L	0.000	23	114	78	10	Standard
	Pb	**208**	**0.204**	ug/L	0.006	2	206	15524	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0241-02
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 02:10:23
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			36632	64379	0	Standard
⌈>	**Ge**	**72**		ug/L			38776	37362	1	KED
|	**Cu**	**63**	**0.673**	ug/L	0.024	3	40	2571	2	KED
|	**Cu**	**65**	**0.684**	ug/L	0.022	3	21	1320	1	KED
|	**Zn**	**66**	**5.604**	ug/L	0.279	4	58	2953	3	KED
|	**Zn**	**67**	**5.578**	ug/L	0.295	5	11	488	3	KED
|	**As**	**75**	**0.189**	ug/L	0.014	7	3	53	7	KED
⌊	**Se**	**78**	**0.012**	ug/L	0.027	216	7	7	10	KED
	Kr	**83**		ug/L			50	43	23	Standard
⌈>	**In**	**115**		ug/L			449153	471928	2	Standard
|	**Sb**	**121**	**0.317**	ug/L	0.012	3	226	4343	0	Standard
⌊	**Sb**	**123**	**0.315**	ug/L	0.017	5	207	3327	2	Standard
⌈>	**Tb**	**159**		ug/L			197863	199205	0	Standard
|	**Tl**	**205**	**0.000**	ug/L	0.000	104	114	142	19	Standard
⌊	**Pb**	**208**	**0.044**	ug/L	0.001	2	206	3552	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0241-04
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 02:13:25
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			36632	67178	0	Standard
>	**Ge**	**72**		ug/L			38776	35353	8	KED
	Cu	**63**	**0.271**	ug/L	0.021	7	40	998	1	KED
	Cu	**65**	**0.268**	ug/L	0.026	9	21	499	2	KED
	Zn	**66**	**2.533**	ug/L	0.211	8	58	1287	1	KED
	Zn	**67**	**2.254**	ug/L	0.128	5	11	192	3	KED
	As	**75**	**0.260**	ug/L	0.024	9	3	68	7	KED
	Se	**78**	**0.057**	ug/L	0.191	335	7	7	47	KED
	Kr	**83**		ug/L			50	31	43	Standard
>	**In**	**115**		ug/L			449153	457938	1	Standard
	Sb	**121**	**0.044**	ug/L	0.003	7	226	784	5	Standard
	Sb	**123**	**0.038**	ug/L	0.003	7	207	573	3	Standard
>	**Tb**	**159**		ug/L			197863	200946	0	Standard
	Tl	**205**	**-0.001**	ug/L	0.000	11	114	85	3	Standard
	Pb	**208**	**0.050**	ug/L	0.001	1	206	4063	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0242-02
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 02:16:22
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			36632	62853	1	Standard
⌈>	**Ge**	**72**		ug/L			38776	37822	1	KED
|	**Cu**	**63**	**1.024**	ug/L	0.050	4	40	3937	3	KED
|	**Cu**	**65**	**1.003**	ug/L	0.033	3	21	1949	1	KED
|	**Zn**	**66**	**4.632**	ug/L	0.249	5	58	2481	3	KED
|	**Zn**	**67**	**4.816**	ug/L	0.375	7	11	428	8	KED
|	**As**	**75**	**0.152**	ug/L	0.001	0	3	43	1	KED
⌊	**Se**	**78**	**-0.009**	ug/L	0.077	889	7	7	27	KED
	Kr	**83**		ug/L			50	49	7	Standard
⌈>	**In**	**115**		ug/L			449153	454793	1	Standard
|	**Sb**	**121**	**0.316**	ug/L	0.010	3	226	4180	3	Standard
⌊	**Sb**	**123**	**0.325**	ug/L	0.009	2	207	3306	2	Standard
⌈>	**Tb**	**159**		ug/L			197863	200055	0	Standard
|	**Tl**	**205**	**0.000**	ug/L	0.000	23763	114	116	9	Standard
⌊	**Pb**	**208**	**0.093**	ug/L	0.002	1	206	7311	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0242-04
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 02:19:24
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			36632	64999	2	Standard
⌈>	**Ge**	**72**		ug/L			38776	37094	1	KED
|	**Cu**	**63**	**0.931**	ug/L	0.028	3	40	3515	2	KED
|	**Cu**	**65**	**0.947**	ug/L	0.025	2	21	1806	3	KED
|	**Zn**	**66**	**11.511**	ug/L	0.245	2	58	5966	1	KED
|	**Zn**	**67**	**11.037**	ug/L	0.357	3	11	948	1	KED
|	**As**	**75**	**0.227**	ug/L	0.014	6	3	62	6	KED
⌊	**Se**	**78**	**0.167**	ug/L	0.124	74	7	11	28	KED
	Kr	**83**		ug/L			50	40	14	Standard
⌈>	**In**	**115**		ug/L			449153	463331	3	Standard
|	**Sb**	**121**	**0.139**	ug/L	0.005	3	226	2005	4	Standard
⌊	**Sb**	**123**	**0.140**	ug/L	0.010	6	207	1573	3	Standard
⌈>	**Tb**	**159**		ug/L			197863	201648	0	Standard
|	**Tl**	**205**	**-0.000**	ug/L	0.000	113	114	105	12	Standard
⌊	**Pb**	**208**	**0.053**	ug/L	0.001	1	206	4265	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0242-05
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 02:22:26
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			36632	65125	1	Standard
>	**Ge**	**72**		ug/L			38776	37282	0	KED
	Cu	**63**	**1.118**	ug/L	0.005	0	40	4236	0	KED
	Cu	**65**	**1.137**	ug/L	0.042	3	21	2175	3	KED
	Zn	**66**	**36.548**	ug/L	0.981	2	58	18921	2	KED
	Zn	**67**	**34.425**	ug/L	0.242	0	11	2951	0	KED
	As	**75**	**0.201**	ug/L	0.022	10	3	56	10	KED
	Se	**78**	**0.141**	ug/L	0.141	100	7	10	34	KED
	Kr	**83**		ug/L			50	42	13	Standard
>	**In**	**115**		ug/L			449153	462051	0	Standard
	Sb	**121**	**0.139**	ug/L	0.006	4	226	1998	2	Standard
	Sb	**123**	**0.149**	ug/L	0.005	3	207	1656	2	Standard
>	**Tb**	**159**		ug/L			197863	201645	0	Standard
	Tl	**205**	**-0.000**	ug/L	0.000	99	114	105	11	Standard
	Pb	**208**	**0.066**	ug/L	0.002	2	206	5276	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLI
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 02:25:29
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			36632	36152	0	Standard
⌈>	**Ge**	**72**		ug/L			38776	37905	0	KED
|	**Cu**	**63**	**0.002**	ug/L	0.002	111	40	48	19	KED
|	**Cu**	**65**	**0.002**	ug/L	0.006	400	21	24	50	KED
|	**Zn**	**66**	**-0.054**	ug/L	0.015	26	58	28	26	KED
|	**Zn**	**67**	**0.003**	ug/L	0.022	743	11	11	16	KED
|	**As**	**75**	**-0.000**	ug/L	0.003	924	3	2	28	KED
⌊	**Se**	**78**	**0.014**	ug/L	0.099	705	7	7	34	KED
	Kr	**83**		ug/L			50	47	16	Standard
⌈>	**In**	**115**		ug/L			449153	451878	2	Standard
|	**Sb**	**121**	**-0.016**	ug/L	0.000	1	226	34	8	Standard
⌊	**Sb**	**123**	**-0.018**	ug/L	0.001	3	207	35	17	Standard
⌈>	**Tb**	**159**		ug/L			197863	195547	0	Standard
|	**Tl**	**205**	**-0.001**	ug/L	0.000	10	114	40	19	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.000	24	206	128	14	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVG
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 02:28:32
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			36632	37741	2	Standard
⌈>	**Ge**	**72**		ug/L			38776	38368	0	KED
|	**Cu**	**63**	**52.072**	ug/L	0.219	0	40	201255	0	KED
|	**Cu**	**65**	**52.700**	ug/L	0.577	1	21	102831	0	KED
|	**Zn**	**66**	**51.496**	ug/L	0.974	1	58	27414	1	KED
|	**Zn**	**67**	**50.528**	ug/L	1.196	2	11	4452	2	KED
|	**As**	**75**	**49.865**	ug/L	0.375	0	3	13627	0	KED
⌊	**Se**	**78**	**48.217**	ug/L	0.790	1	7	1288	1	KED
	Kr	**83**		ug/L			50	52	8	Standard
⌈>	**In**	**115**		ug/L			449153	446942	0	Standard
|	**Sb**	**121**	**49.754**	ug/L	0.185	0	226	610719	0	Standard
⌊	**Sb**	**123**	**50.941**	ug/L	0.860	1	207	476907	1	Standard
⌈>	**Tb**	**159**		ug/L			197863	202489	0	Standard
|	**Tl**	**205**	**52.456**	ug/L	0.436	0	114	3166737	0	Standard
⌊	**Pb**	**208**	**52.048**	ug/L	0.591	1	206	4003781	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBG
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 02:34:18
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			36632	35954	2	Standard
⌈>	**Ge**	**72**		ug/L			38776	39420	4	KED
|	**Cu**	**63**	**-0.005**	ug/L	0.002	40	40	20	41	KED
|	**Cu**	**65**	**-0.006**	ug/L	0.003	58	21	10	66	KED
|	**Zn**	**66**	**-0.026**	ug/L	0.008	31	58	45	6	KED
|	**Zn**	**67**	**-0.025**	ug/L	0.071	280	11	9	72	KED
|	**As**	**75**	**0.001**	ug/L	0.003	313	3	3	24	KED
⌊	**Se**	**78**	**0.123**	ug/L	0.075	60	7	10	17	KED
	Kr	**83**		ug/L			50	40	8	Standard
⌈>	**In**	**115**		ug/L			449153	442511	2	Standard
|	**Sb**	**121**	**0.027**	ug/L	0.006	20	226	556	14	Standard
⌊	**Sb**	**123**	**0.023**	ug/L	0.002	10	207	421	7	Standard
⌈>	**Tb**	**159**		ug/L			197863	197405	1	Standard
|	**Tl**	**205**	**0.002**	ug/L	0.000	10	114	222	5	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	146	206	223	12	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0652-SRL1
Sample Dil Factor: 5
Comments:
Sample Date/Time: Thursday, May 04, 2023 02:37:21
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			36632	51508	2	Standard
>	Ge	72		ug/L			38776	38838	1	KED
	Cu	63	0.310	ug/L	0.016	5	40	1254	3	KED
	Cu	65	0.322	ug/L	0.020	6	21	657	7	KED
	Zn	66	7.218	ug/L	0.065	0	58	3940	2	KED
	Zn	67	6.995	ug/L	0.747	10	11	633	8	KED
	As	75	0.064	ug/L	0.011	17	3	20	15	KED
	Se	78	0.077	ug/L	0.011	14	7	9	3	KED
	Kr	83		ug/L			50	53	12	Standard
>	In	115		ug/L			449153	449821	1	Standard
	Sb	121	0.028	ug/L	0.004	13	226	573	6	Standard
	Sb	123	0.025	ug/L	0.003	13	207	438	8	Standard
>	Tb	159		ug/L			197863	201718	0	Standard
	Tl	205	-0.000	ug/L	0.000	26	114	97	4	Standard
	Pb	208	0.142	ug/L	0.002	1	206	11103	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0404-SRL1
Sample Dil Factor: 5
Comments:
Sample Date/Time: Thursday, May 04, 2023 02:40:24
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			36632	51465	0	Standard
⌈>	**Ge**	**72**		ug/L			38776	38934	1	KED
|	**Cu**	**63**	**0.441**	ug/L	0.014	3	40	1769	3	KED
|	**Cu**	**65**	**0.449**	ug/L	0.022	4	21	910	3	KED
|	**Zn**	**66**	**6.277**	ug/L	0.035	0	58	3442	1	KED
|	**Zn**	**67**	**5.415**	ug/L	0.132	2	11	494	3	KED
|	**As**	**75**	**0.062**	ug/L	0.001	2	3	20	2	KED
⌊	**Se**	**78**	**0.101**	ug/L	0.043	42	7	10	10	KED
	Kr	**83**		ug/L			50	38	7	Standard
⌈>	**In**	**115**		ug/L			449153	454473	1	Standard
|	**Sb**	**121**	**0.014**	ug/L	0.001	6	226	406	1	Standard
⌊	**Sb**	**123**	**0.011**	ug/L	0.003	26	207	315	7	Standard
⌈>	**Tb**	**159**		ug/L			197863	199146	0	Standard
|	**Tl**	**205**	**-0.001**	ug/L	0.000	18	114	67	12	Standard
⌊	**Pb**	**208**	**0.032**	ug/L	0.001	2	206	2613	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0233-07
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 02:43:26
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			36632	66154	2	Standard
⌈>	**Ge**	**72**		ug/L			38776	38315	1	KED
|	**Cu**	**63**	**2.233**	ug/L	0.045	1	40	8655	0	KED
|	**Cu**	**65**	**2.233**	ug/L	0.026	1	21	4372	2	KED
|	**Zn**	**66**	**29.989**	ug/L	0.358	1	58	15965	0	KED
|	**Zn**	**67**	**27.419**	ug/L	0.378	1	11	2417	0	KED
|	**As**	**75**	**0.249**	ug/L	0.025	9	3	70	9	KED
⌊	**Se**	**78**	**0.058**	ug/L	0.120	207	7	8	36	KED
	Kr	**83**		ug/L			50	37	31	Standard
⌈>	**In**	**115**		ug/L			449153	464180	2	Standard
|	**Sb**	**121**	**0.088**	ug/L	0.001	1	226	1354	2	Standard
⌊	**Sb**	**123**	**0.087**	ug/L	0.006	6	207	1058	3	Standard
⌈>	**Tb**	**159**		ug/L			197863	203073	1	Standard
|	**Tl**	**205**	**-0.000**	ug/L	0.000	84	114	100	14	Standard
⌊	**Pb**	**208**	**0.149**	ug/L	0.004	2	206	11712	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0404-DUP1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 02:46:28
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			36632	66170	1	Standard
>	**Ge**	**72**		ug/L			38776	38446	0	KED
	Cu	**63**	**0.864**	ug/L	0.010	1	40	3385	0	KED
	Cu	**65**	**0.860**	ug/L	0.045	5	21	1702	4	KED
	Zn	**66**	**29.198**	ug/L	0.354	1	58	15599	0	KED
	Zn	**67**	**27.703**	ug/L	1.160	4	11	2451	3	KED
	As	**75**	**0.259**	ug/L	0.011	4	3	73	3	KED
	Se	**78**	**0.099**	ug/L	0.041	41	7	10	11	KED
	Kr	**83**		ug/L			50	29	13	Standard
>	**In**	**115**		ug/L			449153	472164	1	Standard
	Sb	**121**	**0.083**	ug/L	0.003	3	226	1318	4	Standard
	Sb	**123**	**0.081**	ug/L	0.003	4	207	1013	2	Standard
>	**Tb**	**159**		ug/L			197863	204960	0	Standard
	Tl	**205**	**-0.000**	ug/L	0.000	98	114	93	26	Standard
	Pb	**208**	**0.133**	ug/L	0.003	2	206	10576	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0404-MS1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 02:49:30
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			36632	65902	0	Standard
⌈>	**Ge**	**72**		ug/L			38776	38347	1	KED
|	**Cu**	**63**	**28.182**	ug/L	0.156	0	40	108888	1	KED
|	**Cu**	**65**	**28.277**	ug/L	0.711	2	21	55144	1	KED
|	**Zn**	**66**	**112.172**	ug/L	3.045	2	58	59603	1	KED
|	**Zn**	**67**	**104.926**	ug/L	0.735	0	11	9229	1	KED
|	**As**	**75**	**24.874**	ug/L	0.305	1	3	6794	1	KED
⌊	**Se**	**78**	**75.247**	ug/L	2.132	2	7	2004	1	KED
	Kr	**83**		ug/L			50	48	8	Standard
⌈>	**In**	**115**		ug/L			449153	466044	1	Standard
|	**Sb**	**121**	**0.152**	ug/L	0.008	5	226	2181	3	Standard
⌊	**Sb**	**123**	**0.150**	ug/L	0.006	3	207	1681	2	Standard
⌈>	**Tb**	**159**		ug/L			197863	206778	0	Standard
|	**Tl**	**205**	**25.920**	ug/L	0.048	0	114	1597922	0	Standard
⌊	**Pb**	**208**	**26.072**	ug/L	0.553	2	206	2047963	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0404-PS1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 02:52:33
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			36632	65405	3	Standard
⌈>	**Ge**	**72**		ug/L			38776	38733	1	KED
|	**Cu**	**63**	**29.724**	ug/L	0.350	1	40	115985	0	KED
|	**Cu**	**65**	**29.802**	ug/L	0.455	1	21	58712	1	KED
|	**Zn**	**66**	**110.880**	ug/L	2.125	1	58	59514	0	KED
|	**Zn**	**67**	**103.230**	ug/L	2.089	2	11	9171	1	KED
|	**As**	**75**	**24.980**	ug/L	0.284	1	3	6892	0	KED
⌊	**Se**	**78**	**73.389**	ug/L	2.038	2	7	1975	2	KED
	Kr	**83**		ug/L			50	49	0	Standard
⌈>	**In**	**115**		ug/L			449153	439511	6	Standard
|	**Sb**	**121**	**0.084**	ug/L	0.008	9	226	1234	5	Standard
⌊	**Sb**	**123**	**0.096**	ug/L	0.007	7	207	1080	1	Standard
⌈>	**Tb**	**159**		ug/L			197863	196394	5	Standard
|	**Tl**	**205**	**27.924**	ug/L	0.901	3	114	1633110	2	Standard
⌊	**Pb**	**208**	**28.028**	ug/L	1.746	6	206	2086439	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0233-04
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 02:55:59
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			36632	68044	1	Standard
⌈>	**Ge**	**72**		ug/L			38776	38804	1	KED
|	**Cu**	**63**	**1.578**	ug/L	0.040	2	40	6205	1	KED
|	**Cu**	**65**	**1.550**	ug/L	0.047	3	21	3079	1	KED
|	**Zn**	**66**	**34.815**	ug/L	0.944	2	58	18760	2	KED
|	**Zn**	**67**	**31.727**	ug/L	0.504	1	11	2832	2	KED
|	**As**	**75**	**0.318**	ug/L	0.043	13	3	90	12	KED
⌊	**Se**	**78**	**0.107**	ug/L	0.097	90	7	10	24	KED
	Kr	**83**		ug/L			50	48	25	Standard
⌈>	**In**	**115**		ug/L			449153	460251	2	Standard
|	**Sb**	**121**	**0.103**	ug/L	0.008	7	226	1528	5	Standard
⌊	**Sb**	**123**	**0.115**	ug/L	0.019	16	207	1316	11	Standard
⌈>	**Tb**	**159**		ug/L			197863	203621	1	Standard
|	**Tl**	**205**	**0.001**	ug/L	0.000	58	114	166	17	Standard
⌊	**Pb**	**208**	**0.701**	ug/L	0.010	1	206	54445	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0652-DUP1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 02:59:01
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			36632	65570	0	Standard
⌈>	**Ge**	**72**		ug/L			38776	38193	1	KED
|	**Cu**	**63**	**1.344**	ug/L	0.023	1	40	5209	2	KED
|	**Cu**	**65**	**1.320**	ug/L	0.032	2	21	2583	1	KED
|	**Zn**	**66**	**34.555**	ug/L	0.585	1	58	18328	0	KED
|	**Zn**	**67**	**33.314**	ug/L	0.506	1	11	2926	0	KED
|	**As**	**75**	**0.315**	ug/L	0.009	2	3	88	3	KED
⌊	**Se**	**78**	**0.048**	ug/L	0.062	130	7	8	17	KED
	Kr	**83**		ug/L			50	39	19	Standard
⌈>	**In**	**115**		ug/L			449153	454706	2	Standard
|	**Sb**	**121**	**0.103**	ug/L	0.011	10	226	1515	6	Standard
⌊	**Sb**	**123**	**0.106**	ug/L	0.017	16	207	1221	15	Standard
⌈>	**Tb**	**159**		ug/L			197863	202683	1	Standard
|	**Tl**	**205**	**0.000**	ug/L	0.000	73	114	137	11	Standard
⌊	**Pb**	**208**	**0.488**	ug/L	0.007	1	206	37762	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0652-MS1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 03:02:03
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			36632	63982	2	Standard
⌈>	**Ge**	**72**		ug/L			38776	37748	1	KED
|	**Cu**	**63**	**29.499**	ug/L	0.874	2	40	112151	1	KED
|	**Cu**	**65**	**29.854**	ug/L	1.238	4	21	57293	2	KED
|	**Zn**	**66**	**118.930**	ug/L	4.598	3	58	62185	2	KED
|	**Zn**	**67**	**114.079**	ug/L	2.542	2	11	9874	0	KED
|	**As**	**75**	**25.973**	ug/L	0.065	0	3	6984	1	KED
⌊	**Se**	**78**	**77.554**	ug/L	2.389	3	7	2033	1	KED
	Kr	**83**		ug/L			50	39	16	Standard
⌈>	**In**	**115**		ug/L			449153	468099	1	Standard
|	**Sb**	**121**	**0.168**	ug/L	0.006	3	226	2395	1	Standard
⌊	**Sb**	**123**	**0.170**	ug/L	0.003	1	207	1886	2	Standard
⌈>	**Tb**	**159**		ug/L			197863	200734	0	Standard
|	**Tl**	**205**	**27.554**	ug/L	0.429	1	114	1648976	1	Standard
⌊	**Pb**	**208**	**28.251**	ug/L	0.252	0	206	2154540	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0652-PS1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 03:04:59
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			36632	66978	0	Standard
⌈>	**Ge**	**72**		ug/L			38776	38219	1	KED
|	**Cu**	**63**	**29.423**	ug/L	0.152	0	40	113294	1	KED
|	**Cu**	**65**	**29.146**	ug/L	0.225	0	21	56656	1	KED
|	**Zn**	**66**	**116.093**	ug/L	1.291	1	58	61483	1	KED
|	**Zn**	**67**	**110.176**	ug/L	0.688	0	11	9657	1	KED
|	**As**	**75**	**25.283**	ug/L	0.493	1	3	6882	0	KED
⌊	**Se**	**78**	**73.741**	ug/L	1.269	1	7	1958	1	KED
	Kr	**83**		ug/L			50	52	12	Standard
⌈>	**In**	**115**		ug/L			449153	469340	1	Standard
|	**Sb**	**121**	**0.108**	ug/L	0.012	11	226	1628	8	Standard
⌊	**Sb**	**123**	**0.105**	ug/L	0.006	5	207	1249	2	Standard
⌈>	**Tb**	**159**		ug/L			197863	201473	1	Standard
|	**Tl**	**205**	**27.052**	ug/L	0.378	1	114	1624731	0	Standard
⌊	**Pb**	**208**	**27.820**	ug/L	0.178	0	206	2129290	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVH
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 03:09:27
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			36632	37418	1	Standard
⌈>	**Ge**	**72**		ug/L			38776	38682	1	KED
|	**Cu**	**63**	**51.861**	ug/L	1.692	3	40	202012	1	KED
|	**Cu**	**65**	**52.949**	ug/L	1.015	1	21	104147	1	KED
|	**Zn**	**66**	**51.475**	ug/L	0.487	0	58	27626	1	KED
|	**Zn**	**67**	**49.621**	ug/L	0.855	1	11	4408	2	KED
|	**As**	**75**	**49.346**	ug/L	0.514	1	3	13594	0	KED
⌊	**Se**	**78**	**47.886**	ug/L	1.455	3	7	1290	3	KED
	Kr	**83**		ug/L			50	61	6	Standard
⌈>	**In**	**115**		ug/L			449153	445855	1	Standard
|	**Sb**	**121**	**50.523**	ug/L	0.445	0	226	618597	0	Standard
⌊	**Sb**	**123**	**50.647**	ug/L	0.893	1	207	472974	1	Standard
⌈>	**Tb**	**159**		ug/L			197863	202705	1	Standard
|	**Tl**	**205**	**51.873**	ug/L	0.955	1	114	3134422	0	Standard
⌊	**Pb**	**208**	**52.074**	ug/L	0.405	0	206	4010074	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBH
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 03:15:13
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			36632	36438	1	Standard
⌈>	**Ge**	**72**		ug/L			38776	39707	0	KED
|	**Cu**	**63**	**-0.002**	ug/L	0.004	201	40	33	48	KED
|	**Cu**	**65**	**-0.002**	ug/L	0.007	439	21	19	72	KED
|	**Zn**	**66**	**-0.018**	ug/L	0.013	76	58	50	14	KED
|	**Zn**	**67**	**-0.024**	ug/L	0.022	90	11	9	20	KED
|	**As**	**75**	**0.007**	ug/L	0.005	71	3	5	28	KED
⌊	**Se**	**78**	**0.039**	ug/L	0.052	135	7	8	17	KED
	Kr	**83**		ug/L			50	41	17	Standard
⌈>	**In**	**115**		ug/L			449153	447740	2	Standard
|	**Sb**	**121**	**0.028**	ug/L	0.003	12	226	566	7	Standard
⌊	**Sb**	**123**	**0.022**	ug/L	0.004	16	207	412	6	Standard
⌈>	**Tb**	**159**		ug/L			197863	197517	1	Standard
|	**Tl**	**205**	**0.002**	ug/L	0.001	27	114	238	14	Standard
⌊	**Pb**	**208**	**-0.000**	ug/L	0.000	100	206	172	18	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0730-SRL1
Sample Dil Factor: 5
Comments:
Sample Date/Time: Thursday, May 04, 2023 03:18:16
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			36632	51511	0	Standard
>	Ge	72		ug/L			38776	38905	1	KED
	Cu	63	0.119	ug/L	0.006	4	40	507	5	KED
	Cu	65	0.120	ug/L	0.004	3	21	259	4	KED
	Zn	66	0.580	ug/L	0.016	2	58	370	1	KED
	Zn	67	0.675	ug/L	0.246	36	11	71	31	KED
	As	75	0.062	ug/L	0.007	11	3	20	8	KED
	Se	78	-0.011	ug/L	0.024	225	7	7	9	KED
	Kr	83		ug/L			50	45	14	Standard
>	In	115		ug/L			449153	453812	2	Standard
	Sb	121	0.012	ug/L	0.002	20	226	374	10	Standard
	Sb	123	0.011	ug/L	0.002	17	207	318	7	Standard
>	Tb	159		ug/L			197863	199802	2	Standard
	Tl	205	-0.000	ug/L	0.000	684	114	113	15	Standard
	Pb	208	0.031	ug/L	0.001	1	206	2532	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0435-02
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 03:21:19
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			36632	69760	1	Standard
>	Ge	72		ug/L			38776	37827	2	KED
	Cu	63	0.569	ug/L	0.013	2	40	2205	1	KED
	Cu	65	0.580	ug/L	0.060	10	21	1135	7	KED
	Zn	66	2.492	ug/L	0.089	3	58	1361	2	KED
	Zn	67	2.386	ug/L	0.109	4	11	217	1	KED
	As	75	0.313	ug/L	0.024	7	3	87	8	KED
	Se	78	0.020	ug/L	0.082	419	7	7	28	KED
	Kr	83		ug/L			50	55	13	Standard
>	In	115		ug/L			449153	453661	1	Standard
	Sb	121	0.051	ug/L	0.000	0	226	864	1	Standard
	Sb	123	0.048	ug/L	0.003	6	207	666	4	Standard
>	Tb	159		ug/L			197863	200445	0	Standard
	Tl	205	0.001	ug/L	0.000	49	114	153	12	Standard
	Pb	208	0.143	ug/L	0.003	2	206	11062	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0730-DUP1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 03:24:21
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			36632	69427	0	Standard
⌈>	Ge	72		ug/L			38776	38587	0	KED
|	Cu	63	0.399	ug/L	0.018	4	40	1589	4	KED
|	Cu	65	0.399	ug/L	0.025	6	21	805	5	KED
|	Zn	66	1.176	ug/L	0.049	4	58	686	3	KED
|	Zn	67	1.279	ug/L	0.098	7	11	124	7	KED
|	As	75	0.284	ug/L	0.017	5	3	81	5	KED
⌊	Se	78	0.051	ug/L	0.109	213	7	8	33	KED
	Kr	83		ug/L			50	40	24	Standard
⌈>	In	115		ug/L			449153	454966	0	Standard
|	Sb	121	0.041	ug/L	0.002	5	226	736	3	Standard
⌊	Sb	123	0.038	ug/L	0.002	5	207	569	3	Standard
⌈>	Tb	159		ug/L			197863	202893	0	Standard
|	Tl	205	0.000	ug/L	0.000	65	114	136	8	Standard
⌊	Pb	208	0.121	ug/L	0.001	0	206	9551	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0730-MS1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 03:27:24
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			36632	65071	1	Standard
⌈>	**Ge**	**72**		ug/L			38776	37477	2	KED
|	**Cu**	**63**	**28.032**	ug/L	0.374	1	40	105828	1	KED
|	**Cu**	**65**	**28.818**	ug/L	1.112	3	21	54908	2	KED
|	**Zn**	**66**	**83.987**	ug/L	1.170	1	58	43627	1	KED
|	**Zn**	**67**	**79.326**	ug/L	1.745	2	11	6822	3	KED
|	**As**	**75**	**25.603**	ug/L	1.057	4	3	6831	2	KED
⌊	**Se**	**78**	**75.071**	ug/L	0.704	0	7	1955	2	KED
	Kr	**83**		ug/L			50	53	25	Standard
⌈>	**In**	**115**		ug/L			449153	451488	0	Standard
|	**Sb**	**121**	**0.113**	ug/L	0.003	3	226	1626	3	Standard
⌊	**Sb**	**123**	**0.106**	ug/L	0.008	7	207	1208	5	Standard
⌈>	**Tb**	**159**		ug/L			197863	202183	0	Standard
|	**Tl**	**205**	**26.948**	ug/L	0.247	0	114	1624477	1	Standard
⌊	**Pb**	**208**	**27.053**	ug/L	0.485	1	206	2077859	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0730-PS1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 03:30:27
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			36632	68954	2	Standard
⌈>	**Ge**	**72**		ug/L			38776	37070	0	KED
|	**Cu**	**63**	**28.075**	ug/L	0.281	1	40	104862	1	KED
|	**Cu**	**65**	**28.096**	ug/L	0.186	0	21	52977	0	KED
|	**Zn**	**66**	**81.726**	ug/L	1.294	1	58	41999	0	KED
|	**Zn**	**67**	**76.806**	ug/L	1.658	2	11	6534	2	KED
|	**As**	**75**	**24.889**	ug/L	0.412	1	3	6572	1	KED
⌊	**Se**	**78**	**71.588**	ug/L	2.832	3	7	1844	3	KED
	Kr	**83**		ug/L			50	46	15	Standard
⌈>	**In**	**115**		ug/L			449153	451780	0	Standard
|	**Sb**	**121**	**0.044**	ug/L	0.005	11	226	772	7	Standard
⌊	**Sb**	**123**	**0.043**	ug/L	0.001	3	207	611	2	Standard
⌈>	**Tb**	**159**		ug/L			197863	199816	1	Standard
|	**Tl**	**205**	**26.873**	ug/L	0.484	1	114	1600835	1	Standard
⌊	**Pb**	**208**	**27.031**	ug/L	0.047	0	206	2052010	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0234-04
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 03:33:53
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			36632	68522	1	Standard
⌈>	**Ge**	**72**		ug/L			38776	38158	1	KED
|	**Cu**	**63**	**1.909**	ug/L	0.040	2	40	7373	0	KED
|	**Cu**	**65**	**1.920**	ug/L	0.046	2	21	3745	1	KED
|	**Zn**	**66**	**40.468**	ug/L	0.943	2	58	21433	1	KED
|	**Zn**	**67**	**39.539**	ug/L	0.941	2	11	3467	2	KED
|	**As**	**75**	**0.173**	ug/L	0.023	13	3	50	12	KED
⌊	**Se**	**78**	**0.162**	ug/L	0.052	32	7	11	11	KED
	Kr	**83**		ug/L			50	40	37	Standard
⌈>	**In**	**115**		ug/L			449153	452785	1	Standard
|	**Sb**	**121**	**0.359**	ug/L	0.005	1	226	4692	0	Standard
⌊	**Sb**	**123**	**0.365**	ug/L	0.029	7	207	3670	5	Standard
⌈>	**Tb**	**159**		ug/L			197863	201222	2	Standard
|	**Tl**	**205**	**0.002**	ug/L	0.000	4	114	207	2	Standard
⌊	**Pb**	**208**	**1.697**	ug/L	0.032	1	206	129903	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0435-01
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 03:36:50
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			36632	69155	1	Standard
>	Ge	72		ug/L			38776	37397	1	KED
	Cu	63	0.561	ug/L	0.021	3	40	2152	4	KED
	Cu	65	0.561	ug/L	0.029	5	21	1088	6	KED
	Zn	66	1.262	ug/L	0.012	0	58	709	2	KED
	Zn	67	1.359	ug/L	0.231	16	11	127	16	KED
	As	75	0.376	ug/L	0.036	9	3	102	8	KED
	Se	78	0.103	ug/L	0.038	36	7	9	9	KED
	Kr	83		ug/L			50	47	18	Standard
>	In	115		ug/L			449153	443921	1	Standard
	Sb	121	0.044	ug/L	0.004	8	226	758	5	Standard
	Sb	123	0.043	ug/L	0.002	4	207	602	1	Standard
>	Tb	159		ug/L			197863	200158	1	Standard
	Tl	205	0.001	ug/L	0.001	67	114	165	20	Standard
	Pb	208	0.750	ug/L	0.016	2	206	57260	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0435-03
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 03:39:53
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			36632	43380	1	Standard
⌈>	**Ge**	**72**		ug/L			38776	30774	1	KED
|	**Cu**	**63**	**0.222**	ug/L	0.021	9	40	719	7	KED
|	**Cu**	**65**	**0.206**	ug/L	0.003	1	21	339	1	KED
|	**Zn**	**66**	**0.689**	ug/L	0.034	4	58	339	3	KED
|	**Zn**	**67**	**0.664**	ug/L	0.100	15	11	55	11	KED
|	**As**	**75**	**0.514**	ug/L	0.040	7	3	114	7	KED
⌊	**Se**	**78**	**0.068**	ug/L	0.149	217	7	7	42	KED
	Kr	**83**		ug/L			50	62	35	Standard
⌈>	**In**	**115**		ug/L			449153	531274	1	Standard
|	**Sb**	**121**	**0.039**	ug/L	0.002	3	226	840	3	Standard
⌊	**Sb**	**123**	**0.039**	ug/L	0.000	1	207	674	1	Standard
⌈>	**Tb**	**159**		ug/L			197863	195327	1	Standard
|	**Tl**	**205**	**0.000**	ug/L	0.000	84	114	132	11	Standard
⌊	**Pb**	**208**	**0.186**	ug/L	0.007	3	206	13986	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0455-15
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 04, 2023 03:42:50
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			36632	56331	1	Standard
⌈>	**Ge**	**72**		ug/L			38776	30977	0	KED
|	**Cu**	**63**	**30.905**	ug/L	0.163	0	40	96454	1	KED
|	**Cu**	**65**	**30.678**	ug/L	0.145	0	21	48337	0	KED
|	**Zn**	**66**	**130.172**	ug/L	1.274	0	58	55879	1	KED
|	**Zn**	**67**	**123.417**	ug/L	0.733	0	11	8768	1	KED
|	**As**	**75**	**4.531**	ug/L	0.129	2	3	1001	3	KED
⌊	**Se**	**78**	**0.443**	ug/L	0.175	39	7	15	24	KED
	Kr	**83**		ug/L			50	68	30	Standard
⌈>	**In**	**115**		ug/L			449153	505914	2	Standard
|	**Sb**	**121**	**0.126**	ug/L	0.004	2	226	2003	0	Standard
⌊	**Sb**	**123**	**0.126**	ug/L	0.002	1	207	1566	2	Standard
⌈>	**Tb**	**159**		ug/L			197863	215569	1	Standard
|	**Tl**	**205**	**0.035**	ug/L	0.001	3	114	2355	4	Standard
⌊	**Pb**	**208**	**29.063**	ug/L	0.286	0	206	2379995	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLJ
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 03:45:53
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			36632	30990	1	Standard
⌈>	**Ge**	**72**		ug/L			38776	32680	1	KED
|	**Cu**	**63**	**0.011**	ug/L	0.009	79	40	71	41	KED
|	**Cu**	**65**	**0.014**	ug/L	0.008	59	21	41	33	KED
|	**Zn**	**66**	**-0.005**	ug/L	0.046	932	58	46	43	KED
|	**Zn**	**67**	**-0.061**	ug/L	0.064	104	11	5	94	KED
|	**As**	**75**	**-0.000**	ug/L	0.003	8425	3	2	28	KED
⌊	**Se**	**78**	**0.072**	ug/L	0.062	86	7	7	16	KED
	Kr	**83**		ug/L			50	38	23	Standard
⌈>	**In**	**115**		ug/L			449153	473901	2	Standard
|	**Sb**	**121**	**-0.015**	ug/L	0.001	3	226	43	13	Standard
⌊	**Sb**	**123**	**-0.018**	ug/L	0.000	1	207	37	7	Standard
⌈>	**Tb**	**159**		ug/L			197863	190966	1	Standard
|	**Tl**	**205**	**-0.001**	ug/L	0.000	25	114	57	24	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	42	206	247	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVI
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 03:48:56
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			36632	33167	1	Standard
⌈>	**Ge**	**72**		ug/L			38776	33391	1	KED
|	**Cu**	**63**	**54.272**	ug/L	0.105	0	40	182551	1	KED
|	**Cu**	**65**	**53.878**	ug/L	1.247	2	21	91482	1	KED
|	**Zn**	**66**	**52.857**	ug/L	0.608	1	58	24484	0	KED
|	**Zn**	**67**	**50.553**	ug/L	0.337	0	11	3877	1	KED
|	**As**	**75**	**49.488**	ug/L	0.906	1	3	11769	1	KED
⌊	**Se**	**78**	**48.367**	ug/L	1.095	2	7	1124	2	KED
	Kr	**83**		ug/L			50	57	15	Standard
⌈>	**In**	**115**		ug/L			449153	483952	2	Standard
|	**Sb**	**121**	**51.181**	ug/L	1.642	3	226	679960	1	Standard
⌊	**Sb**	**123**	**51.185**	ug/L	1.402	2	207	518711	1	Standard
⌈>	**Tb**	**159**		ug/L			197863	197864	0	Standard
|	**Tl**	**205**	**54.377**	ug/L	0.376	0	114	3207683	0	Standard
⌊	**Pb**	**208**	**54.389**	ug/L	0.234	0	206	4088327	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBI
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 03:54:43
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			36632	32828	1	Standard
>	**Ge**	**72**		ug/L			38776	35331	0	KED
	Cu	**63**	**-0.004**	ug/L	0.004	91	40	22	57	KED
	Cu	**65**	**0.000**	ug/L	0.004	1134	21	20	35	KED
	Zn	**66**	**-0.040**	ug/L	0.023	57	58	33	33	KED
	Zn	**67**	**-0.019**	ug/L	0.036	194	11	8	32	KED
	As	**75**	**-0.000**	ug/L	0.004	2005	3	2	36	KED
	Se	**78**	**0.055**	ug/L	0.091	166	7	8	27	KED
	Kr	**83**		ug/L			50	50	11	Standard
>	**In**	**115**		ug/L			449153	477295	4	Standard
	Sb	**121**	**0.027**	ug/L	0.004	14	226	587	7	Standard
	Sb	**123**	**0.023**	ug/L	0.001	5	207	450	4	Standard
>	**Tb**	**159**		ug/L			197863	195021	0	Standard
	Tl	**205**	**0.002**	ug/L	0.000	16	114	243	8	Standard
	Pb	**208**	**0.000**	ug/L	0.000	237	206	214	11	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 03:57:46
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				33209	0	Standard
>	**Ge**	**72**		ug/L				34361	1	KED
	Cu	**63**		ug/L				40	47	KED
	Cu	**65**		ug/L				17	57	KED
	Zn	**66**		ug/L				49	24	KED
	Zn	**67**		ug/L				10	26	KED
	As	**75**		ug/L				3	63	KED
	Se	**78**		ug/L				6	16	KED
	Kr	**83**		ug/L				40	31	Standard
>	**In**	**115**		ug/L				478321	1	Standard
	Sb	**121**		ug/L				287	10	Standard
	Sb	**123**		ug/L				216	10	Standard
>	**Tb**	**159**		ug/L				193052	1	Standard
	Tl	**205**		ug/L				132	4	Standard
	Pb	**208**		ug/L				255	13	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVJ
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 04:00:50
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33209	34395	1	Standard
⌈>	**Ge**	**72**		ug/L			34361	35144	0	KED
|	**Cu**	**63**	**52.982**	ug/L	1.136	2	40	187547	1	KED
|	**Cu**	**65**	**53.512**	ug/L	1.371	2	17	95626	1	KED
|	**Zn**	**66**	**51.305**	ug/L	0.982	1	49	25012	1	KED
|	**Zn**	**67**	**52.371**	ug/L	1.742	3	10	4227	3	KED
|	**As**	**75**	**48.808**	ug/L	0.922	1	3	12216	1	KED
⌊	**Se**	**78**	**47.979**	ug/L	0.603	1	6	1174	1	KED
	Kr	**83**		ug/L			40	53	30	Standard
⌈>	**In**	**115**		ug/L			478321	467341	2	Standard
|	**Sb**	**121**	**51.835**	ug/L	1.701	3	287	665084	2	Standard
⌊	**Sb**	**123**	**51.962**	ug/L	1.329	2	216	508483	1	Standard
⌈>	**Tb**	**159**		ug/L			193052	199311	1	Standard
|	**Tl**	**205**	**54.178**	ug/L	0.699	1	132	3218987	0	Standard
⌊	**Pb**	**208**	**53.986**	ug/L	0.654	1	255	4087399	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBJ
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 04:06:36
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33209	33641	1	Standard
⌈>	**Ge**	**72**		ug/L			34361	36107	0	KED
|	**Cu**	**63**	**-0.005**	ug/L	0.001	25	40	23	20	KED
|	**Cu**	**65**	**-0.004**	ug/L	0.003	76	17	11	44	KED
|	**Zn**	**66**	**-0.009**	ug/L	0.004	40	49	47	4	KED
|	**Zn**	**67**	**-0.053**	ug/L	0.049	92	10	6	56	KED
|	**As**	**75**	**0.000**	ug/L	0.005	16040	3	3	37	KED
⌊	**Se**	**78**	**0.057**	ug/L	0.153	266	6	8	44	KED
	Kr	**83**		ug/L			40	46	18	Standard
⌈>	**In**	**115**		ug/L			478321	478169	0	Standard
|	**Sb**	**121**	**0.025**	ug/L	0.003	11	287	610	6	Standard
⌊	**Sb**	**123**	**0.027**	ug/L	0.004	15	216	485	9	Standard
⌈>	**Tb**	**159**		ug/L			193052	192037	0	Standard
|	**Tl**	**205**	**0.002**	ug/L	0.000	10	132	234	5	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.000	14	255	178	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0455-02
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 04, 2023 04:09:40
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33209	61624	0	Standard
>	**Ge**	**72**		ug/L			34361	35277	2	KED
	Cu	**63**	**42.918**	ug/L	0.710	1	40	152497	1	KED
	Cu	**65**	**43.179**	ug/L	0.361	0	17	77458	1	KED
	Zn	**66**	**71.689**	ug/L	1.635	2	49	35053	0	KED
	Zn	**67**	**69.900**	ug/L	2.798	4	10	5657	2	KED
	As	**75**	**7.852**	ug/L	0.100	1	3	1975	1	KED
	Se	**78**	**0.807**	ug/L	0.124	15	6	26	10	KED
	Kr	**83**		ug/L			40	104	14	Standard
>	**In**	**115**		ug/L			478321	480102	1	Standard
	Sb	**121**	**0.045**	ug/L	0.002	4	287	878	2	Standard
	Sb	**123**	**0.047**	ug/L	0.002	3	216	684	3	Standard
>	**Tb**	**159**		ug/L			193052	228849	0	Standard
	Tl	**205**	**0.072**	ug/L	0.002	2	132	5060	1	Standard
	Pb	**208**	**17.129**	ug/L	0.031	0	255	1489382	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0455-03
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 04, 2023 04:12:43
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33209	64948	2	Standard
>	**Ge**	**72**		ug/L			34361	35123	1	KED
	Cu	**63**	**40.260**	ug/L	0.340	0	40	142443	1	KED
	Cu	**65**	**39.863**	ug/L	0.343	0	17	71204	1	KED
	Zn	**66**	**70.388**	ug/L	0.428	0	49	34279	1	KED
	Zn	**67**	**68.533**	ug/L	1.460	2	10	5524	1	KED
	As	**75**	**6.779**	ug/L	0.085	1	3	1698	1	KED
	Se	**78**	**0.624**	ug/L	0.097	15	6	22	10	KED
	Kr	**83**		ug/L			40	116	13	Standard
>	**In**	**115**		ug/L			478321	463091	1	Standard
	Sb	**121**	**0.030**	ug/L	0.003	10	287	659	4	Standard
	Sb	**123**	**0.034**	ug/L	0.002	5	216	541	2	Standard
>	**Tb**	**159**		ug/L			193052	231285	0	Standard
	Tl	**205**	**0.069**	ug/L	0.001	1	132	4918	1	Standard
	Pb	**208**	**18.949**	ug/L	0.107	0	255	1665133	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0455-04
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 04, 2023 04:15:45
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33209	55901	1	Standard
⌈>	**Ge**	**72**		ug/L			34361	34310	0	KED
|	**Cu**	**63**	**35.029**	ug/L	0.415	1	40	121081	0	KED
|	**Cu**	**65**	**34.707**	ug/L	0.308	0	17	60564	0	KED
|	**Zn**	**66**	**73.067**	ug/L	0.817	1	49	34760	1	KED
|	**Zn**	**67**	**70.273**	ug/L	1.894	2	10	5535	2	KED
|	**As**	**75**	**5.889**	ug/L	0.116	1	3	1441	2	KED
⌊	**Se**	**78**	**0.596**	ug/L	0.126	21	6	20	14	KED
	Kr	**83**		ug/L			40	82	13	Standard
⌈>	**In**	**115**		ug/L			478321	464023	1	Standard
|	**Sb**	**121**	**0.040**	ug/L	0.001	2	287	786	2	Standard
⌊	**Sb**	**123**	**0.038**	ug/L	0.003	8	216	578	6	Standard
⌈>	**Tb**	**159**		ug/L			193052	224810	1	Standard
|	**Tl**	**205**	**0.058**	ug/L	0.003	5	132	4036	5	Standard
⌊	**Pb**	**208**	**15.299**	ug/L	0.290	1	255	1306588	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0455-05
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 04, 2023 04:18:48
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33209	54565	1	Standard
⌈>	**Ge**	**72**		ug/L			34361	36209	1	KED
|	**Cu**	**63**	**9.813**	ug/L	0.194	1	40	35820	1	KED
|	**Cu**	**65**	**9.854**	ug/L	0.150	1	17	18157	1	KED
|	**Zn**	**66**	**21.672**	ug/L	0.523	2	49	10915	1	KED
|	**Zn**	**67**	**20.694**	ug/L	0.517	2	10	1727	1	KED
|	**As**	**75**	**1.859**	ug/L	0.015	0	3	482	2	KED
⌊	**Se**	**78**	**0.318**	ug/L	0.079	24	6	15	12	KED
	Kr	**83**		ug/L			40	71	10	Standard
⌈>	**In**	**115**		ug/L			478321	471337	1	Standard
|	**Sb**	**121**	**0.007**	ug/L	0.001	12	287	375	3	Standard
⌊	**Sb**	**123**	**0.008**	ug/L	0.001	14	216	291	2	Standard
⌈>	**Tb**	**159**		ug/L			193052	218712	1	Standard
|	**Tl**	**205**	**0.028**	ug/L	0.001	4	132	1969	3	Standard
⌊	**Pb**	**208**	**2.896**	ug/L	0.023	0	255	240918	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0455-06
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 04, 2023 04:21:50
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33209	62951	0	Standard
⌈>	**Ge**	**72**		ug/L			34361	35566	1	KED
|	**Cu**	**63**	**38.907**	ug/L	0.515	1	40	139387	0	KED
|	**Cu**	**65**	**39.577**	ug/L	0.912	2	17	71573	0	KED
|	**Zn**	**66**	**67.574**	ug/L	0.877	1	49	33326	1	KED
|	**Zn**	**67**	**65.722**	ug/L	1.465	2	10	5367	3	KED
|	**As**	**75**	**8.114**	ug/L	0.244	3	3	2057	1	KED
⌊	**Se**	**78**	**0.897**	ug/L	0.032	3	6	29	4	KED
	Kr	**83**		ug/L			40	98	9	Standard
⌈>	**In**	**115**		ug/L			478321	470754	1	Standard
|	**Sb**	**121**	**0.017**	ug/L	0.003	18	287	506	9	Standard
⌊	**Sb**	**123**	**0.016**	ug/L	0.004	22	216	369	8	Standard
⌈>	**Tb**	**159**		ug/L			193052	231049	1	Standard
|	**Tl**	**205**	**0.072**	ug/L	0.000	0	132	5127	1	Standard
⌊	**Pb**	**208**	**16.575**	ug/L	0.394	2	255	1454716	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0455-07
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 04, 2023 04:24:53
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33209	59557	0	Standard
⌈>	**Ge**	**72**		ug/L			34361	35501	1	KED
|	**Cu**	**63**	**36.199**	ug/L	0.669	1	40	129452	0	KED
|	**Cu**	**65**	**36.625**	ug/L	0.271	0	17	66126	0	KED
|	**Zn**	**66**	**65.851**	ug/L	0.531	0	49	32417	0	KED
|	**Zn**	**67**	**62.703**	ug/L	2.172	3	10	5112	4	KED
|	**As**	**75**	**7.380**	ug/L	0.300	4	3	1868	3	KED
⌊	**Se**	**78**	**0.674**	ug/L	0.027	3	6	23	1	KED
	Kr	**83**		ug/L			40	84	9	Standard
⌈>	**In**	**115**		ug/L			478321	459746	1	Standard
|	**Sb**	**121**	**0.025**	ug/L	0.005	21	287	589	11	Standard
⌊	**Sb**	**123**	**0.018**	ug/L	0.002	12	216	385	6	Standard
⌈>	**Tb**	**159**		ug/L			193052	221462	2	Standard
|	**Tl**	**205**	**0.073**	ug/L	0.003	4	132	4937	2	Standard
⌊	**Pb**	**208**	**15.123**	ug/L	0.142	0	255	1272505	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0455-08
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 04, 2023 04:27:55
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33209	58578	1	Standard
⌈>	**Ge**	**72**		ug/L			34361	35393	1	KED
|	**Cu**	**63**	**30.275**	ug/L	1.118	3	40	107926	2	KED
|	**Cu**	**65**	**30.406**	ug/L	0.391	1	17	54730	0	KED
|	**Zn**	**66**	**56.188**	ug/L	0.878	1	49	27580	0	KED
|	**Zn**	**67**	**54.682**	ug/L	0.455	0	10	4445	1	KED
|	**As**	**75**	**5.933**	ug/L	0.116	1	3	1498	2	KED
⌊	**Se**	**78**	**0.872**	ug/L	0.166	18	6	28	15	KED
	Kr	**83**		ug/L			40	95	2	Standard
⌈>	**In**	**115**		ug/L			478321	470935	1	Standard
|	**Sb**	**121**	**0.013**	ug/L	0.001	5	287	457	3	Standard
⌊	**Sb**	**123**	**0.014**	ug/L	0.002	16	216	351	4	Standard
⌈>	**Tb**	**159**		ug/L			193052	225236	1	Standard
|	**Tl**	**205**	**0.060**	ug/L	0.001	1	132	4164	0	Standard
⌊	**Pb**	**208**	**12.070**	ug/L	0.163	1	255	1032954	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0455-10
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 04, 2023 04:30:58
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33209	57834	1	Standard
⌈>	**Ge**	**72**		ug/L			34361	35419	0	KED
|	**Cu**	**63**	**34.103**	ug/L	0.411	1	40	121694	1	KED
|	**Cu**	**65**	**34.400**	ug/L	0.280	0	17	61969	0	KED
|	**Zn**	**66**	**62.195**	ug/L	0.205	0	49	30552	0	KED
|	**Zn**	**67**	**60.149**	ug/L	2.047	3	10	4891	3	KED
|	**As**	**75**	**7.425**	ug/L	0.196	2	3	1875	2	KED
⌊	**Se**	**78**	**0.868**	ug/L	0.063	7	6	28	5	KED
	Kr	**83**		ug/L			40	92	8	Standard
⌈>	**In**	**115**		ug/L			478321	468680	1	Standard
|	**Sb**	**121**	**0.022**	ug/L	0.003	13	287	559	5	Standard
⌊	**Sb**	**123**	**0.025**	ug/L	0.003	10	216	458	4	Standard
⌈>	**Tb**	**159**		ug/L			193052	223649	1	Standard
|	**Tl**	**205**	**0.071**	ug/L	0.001	1	132	4901	2	Standard
⌊	**Pb**	**208**	**15.178**	ug/L	0.182	1	255	1289698	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0455-11
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 04, 2023 04:34:01
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33209	67863	1	Standard
⌈>	**Ge**	**72**		ug/L			34361	35612	1	KED
|	**Cu**	**63**	**33.141**	ug/L	0.805	2	40	118895	1	KED
|	**Cu**	**65**	**33.241**	ug/L	0.489	1	17	60202	0	KED
|	**Zn**	**66**	**62.161**	ug/L	0.929	1	49	30698	0	KED
|	**Zn**	**67**	**61.711**	ug/L	1.216	1	10	5045	1	KED
|	**As**	**75**	**6.328**	ug/L	0.283	4	3	1607	3	KED
⌊	**Se**	**78**	**0.780**	ug/L	0.125	16	6	26	11	KED
	Kr	**83**		ug/L			40	97	7	Standard
⌈>	**In**	**115**		ug/L			478321	456708	2	Standard
|	**Sb**	**121**	**0.016**	ug/L	0.002	11	287	469	4	Standard
⌊	**Sb**	**123**	**0.011**	ug/L	0.003	28	216	314	7	Standard
⌈>	**Tb**	**159**		ug/L			193052	229218	1	Standard
|	**Tl**	**205**	**0.067**	ug/L	0.001	1	132	4765	1	Standard
⌊	**Pb**	**208**	**13.057**	ug/L	0.278	2	255	1136894	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0455-16
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 04, 2023 04:37:03
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33209	56430	0	Standard
⌈>	**Ge**	**72**		ug/L			34361	35850	0	KED
|	**Cu**	**63**	**31.953**	ug/L	0.666	2	40	115407	1	KED
|	**Cu**	**65**	**32.109**	ug/L	0.239	0	17	58548	0	KED
|	**Zn**	**66**	**62.325**	ug/L	0.936	1	49	30987	1	KED
|	**Zn**	**67**	**60.472**	ug/L	1.367	2	10	4978	2	KED
|	**As**	**75**	**6.430**	ug/L	0.009	0	3	1644	0	KED
⌊	**Se**	**78**	**0.853**	ug/L	0.187	21	6	28	16	KED
	Kr	**83**		ug/L			40	101	11	Standard
⌈>	**In**	**115**		ug/L			478321	475197	2	Standard
|	**Sb**	**121**	**0.014**	ug/L	0.002	12	287	471	5	Standard
⌊	**Sb**	**123**	**0.017**	ug/L	0.002	13	216	388	4	Standard
⌈>	**Tb**	**159**		ug/L			193052	226910	1	Standard
|	**Tl**	**205**	**0.058**	ug/L	0.002	4	132	4105	2	Standard
⌊	**Pb**	**208**	**13.289**	ug/L	0.343	2	255	1145558	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVK
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 04:41:11
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33209	35494	2	Standard
⌈>	**Ge**	**72**		ug/L			34361	36663	0	KED
|	**Cu**	**63**	**52.828**	ug/L	1.444	2	40	195095	2	KED
|	**Cu**	**65**	**52.745**	ug/L	0.709	1	17	98342	1	KED
|	**Zn**	**66**	**52.307**	ug/L	0.485	0	49	26605	1	KED
|	**Zn**	**67**	**50.211**	ug/L	1.803	3	10	4228	3	KED
|	**As**	**75**	**49.340**	ug/L	0.700	1	3	12884	0	KED
⌊	**Se**	**78**	**48.091**	ug/L	0.492	1	6	1227	0	KED
	Kr	**83**		ug/L			40	54	20	Standard
⌈>	**In**	**115**		ug/L			478321	463069	0	Standard
|	**Sb**	**121**	**50.749**	ug/L	0.936	1	287	645399	1	Standard
⌊	**Sb**	**123**	**51.140**	ug/L	0.360	0	216	496053	0	Standard
⌈>	**Tb**	**159**		ug/L			193052	201652	1	Standard
|	**Tl**	**205**	**53.074**	ug/L	0.505	0	132	3190615	0	Standard
⌊	**Pb**	**208**	**53.390**	ug/L	0.898	1	255	4089668	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBK
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 04:46:58
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33209	34611	3	Standard
⌈>	**Ge**	**72**		ug/L			34361	36906	1	KED
|	**Cu**	**63**	**0.012**	ug/L	0.029	231	40	88	117	KED
|	**Cu**	**65**	**0.015**	ug/L	0.027	181	17	46	109	KED
|	**Zn**	**66**	**-0.028**	ug/L	0.039	139	49	38	49	KED
|	**Zn**	**67**	**-0.069**	ug/L	0.040	58	10	5	57	KED
|	**As**	**75**	**0.012**	ug/L	0.025	209	3	6	102	KED
⌊	**Se**	**78**	**0.047**	ug/L	0.069	146	6	8	20	KED
	Kr	**83**		ug/L			40	38	32	Standard
⌈>	**In**	**115**		ug/L			478321	464732	2	Standard
|	**Sb**	**121**	**0.020**	ug/L	0.003	16	287	532	9	Standard
⌊	**Sb**	**123**	**0.022**	ug/L	0.002	7	216	426	3	Standard
⌈>	**Tb**	**159**		ug/L			193052	192466	0	Standard
|	**Tl**	**205**	**0.001**	ug/L	0.000	27	132	177	6	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.000	26	255	163	14	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0455-17
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 04, 2023 04:50:01
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33209	58173	1	Standard
⌈>	**Ge**	**72**		ug/L			34361	36049	1	KED
|	**Cu**	**63**	**31.472**	ug/L	0.750	2	40	114286	1	KED
|	**Cu**	**65**	**31.663**	ug/L	0.316	0	17	58050	0	KED
|	**Zn**	**66**	**71.534**	ug/L	1.410	1	49	35750	1	KED
|	**Zn**	**67**	**67.330**	ug/L	0.384	0	10	5571	0	KED
|	**As**	**75**	**9.192**	ug/L	0.288	3	3	2362	1	KED
⌊	**Se**	**78**	**0.687**	ug/L	0.067	9	6	24	8	KED
	Kr	**83**		ug/L			40	86	14	Standard
⌈>	**In**	**115**		ug/L			478321	472783	2	Standard
|	**Sb**	**121**	**0.118**	ug/L	0.003	2	287	1809	0	Standard
⌊	**Sb**	**123**	**0.118**	ug/L	0.005	3	216	1381	5	Standard
⌈>	**Tb**	**159**		ug/L			193052	223078	0	Standard
|	**Tl**	**205**	**0.045**	ug/L	0.001	1	132	3137	0	Standard
⌊	**Pb**	**208**	**12.722**	ug/L	0.082	0	255	1078354	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0364-01
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 04:52:58
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33209	60241	2	Standard
⌈>	**Ge**	**72**		ug/L			34361	36888	0	KED
|	**Cu**	**63**	**0.295**	ug/L	0.011	3	40	1137	3	KED
|	**Cu**	**65**	**0.306**	ug/L	0.000	0	17	591	0	KED
|	**Zn**	**66**	**3.681**	ug/L	0.068	1	49	1933	2	KED
|	**Zn**	**67**	**3.281**	ug/L	0.175	5	10	288	5	KED
|	**As**	**75**	**0.015**	ug/L	0.017	108	3	7	60	KED
⌊	**Se**	**78**	**0.036**	ug/L	0.126	352	6	8	39	KED
	Kr	**83**		ug/L			40	49	13	Standard
⌈>	**In**	**115**		ug/L			478321	482008	2	Standard
|	**Sb**	**121**	**0.018**	ug/L	0.004	23	287	532	9	Standard
⌊	**Sb**	**123**	**0.020**	ug/L	0.002	9	216	418	3	Standard
⌈>	**Tb**	**159**		ug/L			193052	199209	1	Standard
|	**Tl**	**205**	**-0.001**	ug/L	0.000	23	132	77	18	Standard
⌊	**Pb**	**208**	**0.011**	ug/L	0.000	2	255	1087	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0364-02
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 04:56:00
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			33209	59552	1	Standard
>	Ge	72		ug/L			34361	37619	0	KED
	Cu	63	0.313	ug/L	0.020	6	40	1231	5	KED
	Cu	65	0.318	ug/L	0.018	5	17	626	5	KED
	Zn	66	2.173	ug/L	0.086	3	49	1186	3	KED
	Zn	67	2.066	ug/L	0.237	11	10	189	10	KED
	As	75	-0.000	ug/L	0.008	1763	3	3	70	KED
	Se	78	0.019	ug/L	0.064	343	6	7	21	KED
	Kr	83		ug/L			40	52	12	Standard
>	In	115		ug/L			478321	467753	2	Standard
	Sb	121	0.006	ug/L	0.001	14	287	353	3	Standard
	Sb	123	0.005	ug/L	0.002	38	216	264	10	Standard
>	Tb	159		ug/L			193052	197151	0	Standard
	Tl	205	-0.001	ug/L	0.001	90	132	85	51	Standard
	Pb	208	0.008	ug/L	0.003	31	255	881	21	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0370-02
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 04:58:57
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33209	61949	2	Standard
>	**Ge**	**72**		ug/L			34361	30080	0	KED
	Cu	**63**	**1.310**	ug/L	0.020	1	40	4005	1	KED
	Cu	**65**	**1.329**	ug/L	0.013	1	17	2047	1	KED
	Zn	**66**	**21.738**	ug/L	0.417	1	49	9096	1	KED
	Zn	**67**	**20.418**	ug/L	0.125	0	10	1416	0	KED
	As	**75**	**0.432**	ug/L	0.024	5	3	95	5	KED
	Se	**78**	**0.143**	ug/L	0.122	85	6	8	28	KED
	Kr	**83**		ug/L			40	97	11	Standard
>	**In**	**115**		ug/L			478321	393071	1	Standard
	Sb	**121**	**0.985**	ug/L	0.007	0	287	10863	1	Standard
	Sb	**123**	**0.984**	ug/L	0.003	0	216	8276	1	Standard
>	**Tb**	**159**		ug/L			193052	181543	0	Standard
	Tl	**205**	**0.001**	ug/L	0.000	34	132	156	6	Standard
	Pb	**208**	**0.022**	ug/L	0.001	6	255	1734	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0370-04
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 05:02:00
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33209	63767	1	Standard
⌈>	**Ge**	**72**		ug/L			34361	36729	1	KED
|	**Cu**	**63**	**105.658**	ug/L	0.729	0	40	390876	1	KED
|	**Cu**	**65**	**106.479**	ug/L	2.531	2	17	198828	0	KED
|	**Zn**	**66**	**23.810**	ug/L	0.714	2	49	12158	2	KED
|	**Zn**	**67**	**22.090**	ug/L	0.848	3	10	1869	3	KED
|	**As**	**75**	**0.508**	ug/L	0.053	10	3	135	8	KED
⌊	**Se**	**78**	**0.138**	ug/L	0.111	80	6	10	27	KED
	Kr	**83**		ug/L			40	38	7	Standard
⌈>	**In**	**115**		ug/L			478321	470846	0	Standard
|	**Sb**	**121**	**0.362**	ug/L	0.009	2	287	4956	1	Standard
⌊	**Sb**	**123**	**0.360**	ug/L	0.005	1	216	3765	0	Standard
⌈>	**Tb**	**159**		ug/L			193052	198510	1	Standard
|	**Tl**	**205**	**0.000**	ug/L	0.000	87	132	151	7	Standard
⌊	**Pb**	**208**	**1.035**	ug/L	0.020	1	255	78334	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0363-04
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 05:04:56
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33209	62409	1	Standard
⌈>	**Ge**	**72**		ug/L			34361	36323	1	KED
|	**Cu**	**63**	**0.481**	ug/L	0.072	15	40	1804	14	KED
|	**Cu**	**65**	**0.476**	ug/L	0.057	11	17	897	12	KED
|	**Zn**	**66**	**4.662**	ug/L	0.030	0	49	2397	1	KED
|	**Zn**	**67**	**4.343**	ug/L	0.184	4	10	372	3	KED
|	**As**	**75**	**0.012**	ug/L	0.011	86	3	6	42	KED
⌊	**Se**	**78**	**0.055**	ug/L	0.101	184	6	8	31	KED
	Kr	**83**		ug/L			40	40	45	Standard
⌈>	**In**	**115**		ug/L			478321	471374	2	Standard
|	**Sb**	**121**	**-0.003**	ug/L	0.002	76	287	243	11	Standard
⌊	**Sb**	**123**	**-0.004**	ug/L	0.001	17	216	175	4	Standard
⌈>	**Tb**	**159**		ug/L			193052	198739	1	Standard
|	**Tl**	**205**	**-0.001**	ug/L	0.000	12	132	67	14	Standard
⌊	**Pb**	**208**	**2.233**	ug/L	0.023	1	255	168887	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0363-02
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 05:07:59
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33209	59104	2	Standard
⌈>	**Ge**	**72**		ug/L			34361	36678	3	KED
|	**Cu**	**63**	**0.707**	ug/L	0.012	1	40	2653	3	KED
|	**Cu**	**65**	**0.704**	ug/L	0.054	7	17	1328	5	KED
|	**Zn**	**66**	**2.379**	ug/L	0.068	2	49	1260	1	KED
|	**Zn**	**67**	**2.146**	ug/L	0.265	12	10	192	14	KED
|	**As**	**75**	**-0.002**	ug/L	0.006	273	3	2	56	KED
⌊	**Se**	**78**	**0.028**	ug/L	0.077	273	6	7	21	KED
	Kr	**83**		ug/L			40	40	9	Standard
⌈>	**In**	**115**		ug/L			478321	471038	0	Standard
|	**Sb**	**121**	**-0.012**	ug/L	0.001	11	287	133	13	Standard
⌊	**Sb**	**123**	**-0.010**	ug/L	0.002	19	216	116	15	Standard
⌈>	**Tb**	**159**		ug/L			193052	199909	1	Standard
|	**Tl**	**205**	**-0.001**	ug/L	0.000	18	132	52	30	Standard
⌊	**Pb**	**208**	**0.008**	ug/L	0.001	9	255	880	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0511-DUP1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 05:10:56
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33209	59735	1	Standard
⌈>	**Ge**	**72**		ug/L			34361	36675	0	KED
|	**Cu**	**63**	**0.226**	ug/L	0.007	3	40	879	2	KED
|	**Cu**	**65**	**0.224**	ug/L	0.013	5	17	436	5	KED
|	**Zn**	**66**	**1.191**	ug/L	0.027	2	49	657	1	KED
|	**Zn**	**67**	**1.087**	ug/L	0.049	4	10	102	3	KED
|	**As**	**75**	**0.002**	ug/L	0.005	277	3	3	32	KED
⌊	**Se**	**78**	**0.025**	ug/L	0.021	83	6	7	7	KED
	Kr	**83**		ug/L			40	41	11	Standard
⌈>	**In**	**115**		ug/L			478321	473483	2	Standard
|	**Sb**	**121**	**-0.015**	ug/L	0.001	8	287	92	16	Standard
⌊	**Sb**	**123**	**-0.014**	ug/L	0.002	12	216	79	23	Standard
⌈>	**Tb**	**159**		ug/L			193052	197911	0	Standard
|	**Tl**	**205**	**-0.002**	ug/L	0.000	6	132	43	14	Standard
⌊	**Pb**	**208**	**0.006**	ug/L	0.001	14	255	699	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0511-MS1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 05:14:22
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33209	62268	1	Standard
⌈>	**Ge**	**72**		ug/L			34361	37061	0	KED
|	**Cu**	**63**	**29.452**	ug/L	0.440	1	40	109967	0	KED
|	**Cu**	**65**	**29.249**	ug/L	0.299	1	17	55138	1	KED
|	**Zn**	**66**	**87.179**	ug/L	0.779	0	49	44786	0	KED
|	**Zn**	**67**	**81.857**	ug/L	0.919	1	10	6961	0	KED
|	**As**	**75**	**25.292**	ug/L	0.296	1	3	6678	1	KED
⌊	**Se**	**78**	**76.110**	ug/L	1.197	1	6	1960	1	KED
	Kr	**83**		ug/L			40	55	25	Standard
⌈>	**In**	**115**		ug/L			478321	467476	2	Standard
|	**Sb**	**121**	**0.056**	ug/L	0.002	3	287	998	2	Standard
⌊	**Sb**	**123**	**0.061**	ug/L	0.004	6	216	810	4	Standard
⌈>	**Tb**	**159**		ug/L			193052	199598	0	Standard
|	**Tl**	**205**	**27.904**	ug/L	0.477	1	132	1660614	2	Standard
⌊	**Pb**	**208**	**28.195**	ug/L	0.416	1	255	2138049	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLK
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 05:17:25
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33209	35687	2	Standard
⌈>	**Ge**	**72**		ug/L			34361	36585	1	KED
|	**Cu**	**63**	**0.002**	ug/L	0.005	298	40	49	37	KED
|	**Cu**	**65**	**0.008**	ug/L	0.006	74	17	32	31	KED
|	**Zn**	**66**	**-0.055**	ug/L	0.006	11	49	24	13	KED
|	**Zn**	**67**	**-0.069**	ug/L	0.045	64	10	5	66	KED
|	**As**	**75**	**-0.003**	ug/L	0.006	224	3	2	57	KED
⌊	**Se**	**78**	**0.108**	ug/L	0.044	41	6	9	12	KED
	Kr	**83**		ug/L			40	31	28	Standard
⌈>	**In**	**115**		ug/L			478321	457736	3	Standard
|	**Sb**	**121**	**-0.020**	ug/L	0.001	2	287	29	25	Standard
⌊	**Sb**	**123**	**-0.019**	ug/L	0.001	4	216	29	26	Standard
⌈>	**Tb**	**159**		ug/L			193052	190711	0	Standard
|	**Tl**	**205**	**0.000**	ug/L	0.000	1255	132	132	15	Standard
⌊	**Pb**	**208**	**-0.000**	ug/L	0.000	24	255	217	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVL
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 05:20:29
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33209	36993	0	Standard
⌈>	**Ge**	**72**		ug/L			34361	36336	1	KED
|	**Cu**	**63**	**53.569**	ug/L	0.730	1	40	196071	1	KED
|	**Cu**	**65**	**53.571**	ug/L	0.603	1	17	99000	1	KED
|	**Zn**	**66**	**51.385**	ug/L	0.946	1	49	25905	2	KED
|	**Zn**	**67**	**51.502**	ug/L	0.206	0	10	4299	1	KED
|	**As**	**75**	**49.652**	ug/L	1.157	2	3	12849	1	KED
⌊	**Se**	**78**	**47.589**	ug/L	0.563	1	6	1204	1	KED
	Kr	**83**		ug/L			40	49	39	Standard
⌈>	**In**	**115**		ug/L			478321	461451	1	Standard
|	**Sb**	**121**	**49.695**	ug/L	1.652	3	287	629603	1	Standard
⌊	**Sb**	**123**	**50.156**	ug/L	0.611	1	216	484763	1	Standard
⌈>	**Tb**	**159**		ug/L			193052	201068	1	Standard
|	**Tl**	**205**	**53.660**	ug/L	0.565	1	132	3216672	1	Standard
⌊	**Pb**	**208**	**52.862**	ug/L	0.475	0	255	4037736	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBL
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 05:26:15
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33209	36054	0	Standard
⌈>	**Ge**	**72**		ug/L			34361	37050	0	KED
|	**Cu**	**63**	**-0.005**	ug/L	0.001	9	40	24	7	KED
|	**Cu**	**65**	**-0.004**	ug/L	0.001	13	17	10	10	KED
|	**Zn**	**66**	**-0.016**	ug/L	0.015	92	49	45	17	KED
|	**Zn**	**67**	**-0.040**	ug/L	0.057	142	10	8	58	KED
|	**As**	**75**	**-0.002**	ug/L	0.003	206	3	2	28	KED
⌊	**Se**	**78**	**0.154**	ug/L	0.144	93	6	11	32	KED
	Kr	**83**		ug/L			40	39	19	Standard
⌈>	**In**	**115**		ug/L			478321	461068	2	Standard
|	**Sb**	**121**	**0.019**	ug/L	0.005	28	287	519	11	Standard
⌊	**Sb**	**123**	**0.019**	ug/L	0.005	25	216	388	11	Standard
⌈>	**Tb**	**159**		ug/L			193052	196555	0	Standard
|	**Tl**	**205**	**0.001**	ug/L	0.001	47	132	219	18	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.000	48	255	191	18	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0372-02
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 05:29:19
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33209	72676	0	Standard
⌈>	**Ge**	**72**		ug/L			34361	37060	2	KED
|	**Cu**	**63**	**3.582**	ug/L	0.095	2	40	13411	1	KED
|	**Cu**	**65**	**3.526**	ug/L	0.032	0	17	6663	1	KED
|	**Zn**	**66**	**25.162**	ug/L	0.516	2	49	12961	0	KED
|	**Zn**	**67**	**23.959**	ug/L	1.102	4	10	2045	3	KED
|	**As**	**75**	**0.386**	ug/L	0.041	10	3	104	8	KED
⌊	**Se**	**78**	**0.138**	ug/L	0.114	82	6	10	29	KED
	Kr	**83**		ug/L			40	45	23	Standard
⌈>	**In**	**115**		ug/L			478321	476169	0	Standard
|	**Sb**	**121**	**1.504**	ug/L	0.034	2	287	19944	2	Standard
⌊	**Sb**	**123**	**1.492**	ug/L	0.017	1	216	15095	1	Standard
⌈>	**Tb**	**159**		ug/L			193052	202880	0	Standard
|	**Tl**	**205**	**0.001**	ug/L	0.000	24	132	195	7	Standard
⌊	**Pb**	**208**	**0.177**	ug/L	0.002	1	255	13916	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0372-04
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 05:32:21
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33209	93632	1	Standard
⌈>	**Ge**	**72**		ug/L			34361	37442	1	KED
|	**Cu**	**63**	**7.086**	ug/L	0.126	1	40	26762	0	KED
|	**Cu**	**65**	**6.986**	ug/L	0.071	1	17	13317	0	KED
|	**Zn**	**66**	**11.389**	ug/L	0.371	3	49	5957	3	KED
|	**Zn**	**67**	**11.437**	ug/L	0.341	2	10	993	4	KED
|	**As**	**75**	**0.383**	ug/L	0.033	8	3	105	7	KED
⌊	**Se**	**78**	**0.109**	ug/L	0.098	90	6	10	26	KED
	Kr	**83**		ug/L			40	48	15	Standard
⌈>	**In**	**115**		ug/L			478321	483961	1	Standard
|	**Sb**	**121**	**1.061**	ug/L	0.004	0	287	14387	1	Standard
⌊	**Sb**	**123**	**1.059**	ug/L	0.013	1	216	10951	1	Standard
⌈>	**Tb**	**159**		ug/L			193052	204617	1	Standard
|	**Tl**	**205**	**0.001**	ug/L	0.000	48	132	171	7	Standard
⌊	**Pb**	**208**	**4.036**	ug/L	0.020	0	255	314008	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0372-06
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 05:35:24
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33209	71499	1	Standard
⌈>	**Ge**	**72**		ug/L			34361	37277	1	KED
|	**Cu**	**63**	**2.306**	ug/L	0.031	1	40	8699	0	KED
|	**Cu**	**65**	**2.345**	ug/L	0.082	3	17	4464	4	KED
|	**Zn**	**66**	**168.760**	ug/L	1.789	1	49	87148	1	KED
|	**Zn**	**67**	**157.653**	ug/L	2.553	1	10	13476	2	KED
|	**As**	**75**	**0.211**	ug/L	0.011	5	3	59	5	KED
⌊	**Se**	**78**	**0.101**	ug/L	0.083	82	6	9	21	KED
	Kr	**83**		ug/L			40	46	15	Standard
⌈>	**In**	**115**		ug/L			478321	484018	2	Standard
|	**Sb**	**121**	**0.175**	ug/L	0.010	5	287	2609	3	Standard
⌊	**Sb**	**123**	**0.177**	ug/L	0.003	1	216	2007	3	Standard
⌈>	**Tb**	**159**		ug/L			193052	202855	1	Standard
|	**Tl**	**205**	**0.003**	ug/L	0.000	12	132	338	7	Standard
⌊	**Pb**	**208**	**0.088**	ug/L	0.001	1	255	7062	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0372-08
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 05:38:20
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33209	66307	0	Standard
⌈>	**Ge**	**72**		ug/L			34361	36706	1	KED
|	**Cu**	**63**	**3.030**	ug/L	0.055	1	40	11243	0	KED
|	**Cu**	**65**	**3.047**	ug/L	0.092	3	17	5704	2	KED
|	**Zn**	**66**	**8.006**	ug/L	0.199	2	49	4121	2	KED
|	**Zn**	**67**	**7.503**	ug/L	0.124	1	10	642	2	KED
|	**As**	**75**	**0.392**	ug/L	0.030	7	3	105	7	KED
⌊	**Se**	**78**	**0.124**	ug/L	0.082	66	6	10	18	KED
	Kr	**83**		ug/L			40	40	24	Standard
⌈>	**In**	**115**		ug/L			478321	480509	1	Standard
|	**Sb**	**121**	**0.089**	ug/L	0.001	0	287	1461	1	Standard
⌊	**Sb**	**123**	**0.093**	ug/L	0.005	5	216	1149	3	Standard
⌈>	**Tb**	**159**		ug/L			193052	205243	1	Standard
|	**Tl**	**205**	**0.003**	ug/L	0.000	5	132	330	4	Standard
⌊	**Pb**	**208**	**0.063**	ug/L	0.001	1	255	5183	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0388-02
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 05:41:47
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			33209	74817	1	Standard
>	Ge	72		ug/L			34361	24617	2	KED
	Cu	63	80.388	ug/L	1.452	1	40	199283	0	KED
	Cu	65	80.572	ug/L	0.686	0	17	100854	1	KED
	Zn	66	144.656	ug/L	0.802	0	49	49340	2	KED
	Zn	67	135.516	ug/L	0.675	0	10	7650	1	KED
	As	75	0.504	ug/L	0.039	7	3	90	6	KED
	Se	78	0.573	ug/L	0.045	7	6	14	3	KED
	Kr	83		ug/L			40	1381	6	Standard
>	In	115		ug/L			478321	311777	1	Standard
	Sb	121	0.510	ug/L	0.008	1	287	4555	0	Standard
	Sb	123	0.529	ug/L	0.003	0	216	3595	1	Standard
>	Tb	159		ug/L			193052	161538	1	Standard
	Tl	205	0.017	ug/L	0.001	8	132	947	7	Standard
	Pb	208	0.059	ug/L	0.002	4	255	3848	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0388-04
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Thursday, May 04, 2023 05:44:49
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			33209	36998	4	Standard
>	Ge	72		ug/L			34361	11693	2	KED
	Cu	63	11.633	ug/L	0.256	2	40	13713	3	KED
	Cu	65	11.591	ug/L	0.398	3	17	6894	2	KED
	Zn	66	31.665	ug/L	1.007	3	49	5142	3	KED
	Zn	67	31.575	ug/L	0.856	2	10	849	3	KED
	As	75	1.406	ug/L	0.101	7	3	118	9	KED
	Se	78	3.845	ug/L	0.120	3	6	33	3	KED
	Kr	83		ug/L			40	170590	6	Standard
>	In	115		ug/L			478321	146965	1	Standard
	Sb	121	0.301	ug/L	0.012	3	287	1301	4	Standard
	Sb	123	0.460	ug/L	0.017	3	216	1480	1	Standard
>	Tb	159		ug/L			193052	72450	0	Standard
	Tl	205	0.042	ug/L	0.002	4	132	959	3	Standard
	Pb	208	0.027	ug/L	0.002	7	255	848	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0388-06
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Thursday, May 04, 2023 05:47:51
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			33209	31950	4	Standard
> Ge	72		ug/L			34361	11660	1	KED
Cu	63	29.799	ug/L	0.612	2	40	35002	1	KED
Cu	65	28.887	ug/L	0.480	1	17	17131	1	KED
Zn	66	66.023	ug/L	0.348	0	49	10675	1	KED
Zn	67	60.443	ug/L	0.973	1	10	1618	2	KED
As	75	1.763	ug/L	0.108	6	3	147	7	KED
Se	78	3.824	ug/L	0.936	24	6	33	21	KED
Kr	83		ug/L			40	249766	7	Standard
> In	115		ug/L			478321	148370	1	Standard
Sb	121	0.403	ug/L	0.022	5	287	1728	4	Standard
Sb	123	0.518	ug/L	0.032	6	216	1676	6	Standard
> Tb	159		ug/L			193052	69782	1	Standard
Tl	205	0.017	ug/L	0.000	1	132	410	2	Standard
Pb	208	0.027	ug/L	0.002	6	255	806	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0388-08
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 05:50:48
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			33209	78890	1	Standard
>	Ge	72		ug/L			34361	28713	1	KED
	Cu	63	45.999	ug/L	0.837	1	40	133042	1	KED
	Cu	65	45.764	ug/L	1.096	2	17	66820	1	KED
	Zn	66	58.573	ug/L	1.513	2	49	23325	2	KED
	Zn	67	54.887	ug/L	2.272	4	10	3618	3	KED
	As	75	0.707	ug/L	0.034	4	3	146	3	KED
	Se	78	1.044	ug/L	0.125	11	6	26	9	KED
	Kr	83		ug/L			40	10549	3	Standard
>	In	115		ug/L			478321	301916	1	Standard
	Sb	121	0.474	ug/L	0.003	0	287	4108	0	Standard
	Sb	123	0.483	ug/L	0.017	3	216	3188	3	Standard
>	Tb	159		ug/L			193052	153601	1	Standard
	Tl	205	0.009	ug/L	0.001	13	132	513	9	Standard
	Pb	208	0.020	ug/L	0.001	5	255	1344	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0435-04
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 05:54:14
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			33209	70423	1	Standard
⌈>	Ge	72		ug/L			34361	40523	0	KED
|	Cu	63	0.316	ug/L	0.012	3	40	1338	3	KED
|	Cu	65	0.304	ug/L	0.015	4	17	645	5	KED
|	Zn	66	0.971	ug/L	0.112	11	49	603	10	KED
|	Zn	67	1.128	ug/L	0.115	10	10	117	9	KED
|	As	75	0.405	ug/L	0.009	2	3	120	2	KED
⌊	Se	78	0.081	ug/L	0.067	83	6	10	18	KED
	Kr	83		ug/L			40	266	5	Standard
⌈>	In	115		ug/L			478321	479583	1	Standard
|	Sb	121	0.027	ug/L	0.001	5	287	644	2	Standard
⌊	Sb	123	0.028	ug/L	0.006	22	216	494	12	Standard
⌈>	Tb	159		ug/L			193052	208270	0	Standard
|	Tl	205	0.002	ug/L	0.000	31	132	239	12	Standard
⌊	Pb	208	0.050	ug/L	0.000	0	255	4218	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLL
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 05:57:18
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33209	39853	0	Standard
⌈>	**Ge**	**72**		ug/L			34361	39279	1	KED
|	**Cu**	**63**	**0.018**	ug/L	0.005	28	40	119	17	KED
|	**Cu**	**65**	**0.007**	ug/L	0.004	60	17	33	23	KED
|	**Zn**	**66**	**-0.038**	ug/L	0.002	6	49	36	5	KED
|	**Zn**	**67**	**-0.087**	ug/L	0.025	28	10	4	49	KED
|	**As**	**75**	**-0.003**	ug/L	0.004	148	3	2	40	KED
⌊	**Se**	**78**	**0.138**	ug/L	0.051	36	6	11	13	KED
	Kr	**83**		ug/L			40	126	14	Standard
⌈>	**In**	**115**		ug/L			478321	450972	0	Standard
|	**Sb**	**121**	**-0.019**	ug/L	0.000	2	287	33	17	Standard
⌊	**Sb**	**123**	**-0.018**	ug/L	0.001	2	216	31	15	Standard
⌈>	**Tb**	**159**		ug/L			193052	198538	0	Standard
|	**Tl**	**205**	**0.000**	ug/L	0.000	34	132	147	2	Standard
⌊	**Pb**	**208**	**-0.000**	ug/L	0.000	761	255	259	11	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVM
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 06:00:21
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33209	39018	1	Standard
⌈>	**Ge**	**72**		ug/L			34361	39146	0	KED
|	**Cu**	**63**	**52.055**	ug/L	1.126	2	40	205274	2	KED
|	**Cu**	**65**	**52.688**	ug/L	0.688	1	17	104889	1	KED
|	**Zn**	**66**	**51.173**	ug/L	0.384	0	49	27792	1	KED
|	**Zn**	**67**	**50.765**	ug/L	1.153	2	10	4565	2	KED
|	**As**	**75**	**50.079**	ug/L	0.175	0	3	13963	0	KED
⌊	**Se**	**78**	**48.975**	ug/L	0.069	0	6	1334	1	KED
	Kr	**83**		ug/L			40	108	8	Standard
⌈>	**In**	**115**		ug/L			478321	465479	1	Standard
|	**Sb**	**121**	**49.101**	ug/L	0.162	0	287	627758	1	Standard
⌊	**Sb**	**123**	**50.623**	ug/L	0.484	0	216	493595	1	Standard
⌈>	**Tb**	**159**		ug/L			193052	202173	1	Standard
|	**Tl**	**205**	**51.205**	ug/L	0.505	0	132	3086608	2	Standard
⌊	**Pb**	**208**	**50.944**	ug/L	0.534	1	255	3912599	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBM
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 06:06:08
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33209	38138	0	Standard
⌈>	**Ge**	**72**		ug/L			34361	39544	0	KED
|	**Cu**	**63**	**-0.000**	ug/L	0.001	1049	40	46	10	KED
|	**Cu**	**65**	**-0.002**	ug/L	0.001	65	17	16	13	KED
|	**Zn**	**66**	**-0.043**	ug/L	0.002	5	49	33	3	KED
|	**Zn**	**67**	**0.024**	ug/L	0.075	307	10	14	45	KED
|	**As**	**75**	**0.002**	ug/L	0.004	239	3	3	30	KED
⌊	**Se**	**78**	**-0.037**	ug/L	0.070	191	6	6	28	KED
	Kr	**83**		ug/L			40	58	19	Standard
⌈>	**In**	**115**		ug/L			478321	452244	2	Standard
|	**Sb**	**121**	**0.049**	ug/L	0.034	70	287	869	46	Standard
⌊	**Sb**	**123**	**0.051**	ug/L	0.036	70	216	682	47	Standard
⌈>	**Tb**	**159**		ug/L			193052	196905	0	Standard
|	**Tl**	**205**	**0.028**	ug/L	0.039	139	132	1776	128	Standard
⌊	**Pb**	**208**	**0.028**	ug/L	0.042	150	255	2351	133	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0435-05
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 06:09:11
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			33209	66967	0	Standard
>	Ge	72		ug/L			34361	39101	0	KED
	Cu	63	0.254	ug/L	0.017	6	40	1047	6	KED
	Cu	65	0.246	ug/L	0.025	10	17	509	10	KED
	Zn	66	0.719	ug/L	0.038	5	49	445	4	KED
	Zn	67	0.933	ug/L	0.139	14	10	95	13	KED
	As	75	0.469	ug/L	0.011	2	3	133	1	KED
	Se	78	0.077	ug/L	0.061	79	6	9	17	KED
	Kr	83		ug/L			40	49	11	Standard
>	In	115		ug/L			478321	467210	0	Standard
	Sb	121	0.050	ug/L	0.005	10	287	927	6	Standard
	Sb	123	0.052	ug/L	0.003	6	216	724	3	Standard
>	Tb	159		ug/L			193052	205163	0	Standard
	Tl	205	0.001	ug/L	0.000	14	132	184	3	Standard
	Pb	208	0.161	ug/L	0.004	2	255	12838	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0435-06
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 06:12:15
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			33209	77549	0	Standard
>	Ge	72		ug/L			34361	38223	1	KED
	Cu	63	0.893	ug/L	0.017	1	40	3485	3	KED
	Cu	65	0.880	ug/L	0.005	0	17	1728	1	KED
	Zn	66	3.051	ug/L	0.108	3	49	1669	2	KED
	Zn	67	3.369	ug/L	0.475	14	10	306	12	KED
	As	75	0.583	ug/L	0.026	4	3	161	2	KED
	Se	78	0.149	ug/L	0.033	22	6	11	9	KED
	Kr	83		ug/L			40	52	29	Standard
>	In	115		ug/L			478321	467592	0	Standard
	Sb	121	0.053	ug/L	0.002	4	287	967	2	Standard
	Sb	123	0.052	ug/L	0.005	9	216	723	6	Standard
>	Tb	159		ug/L			193052	202176	2	Standard
	Tl	205	0.001	ug/L	0.000	48	132	184	11	Standard
	Pb	208	0.303	ug/L	0.001	0	255	23547	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0435-07
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 06:15:18
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			33209	68487	0	Standard
>	Ge	72		ug/L			34361	37091	1	KED
	Cu	63	0.543	ug/L	0.010	1	40	2073	1	KED
	Cu	65	0.577	ug/L	0.023	3	17	1106	5	KED
	Zn	66	1.433	ug/L	0.077	5	49	789	4	KED
	Zn	67	1.439	ug/L	0.138	9	10	133	9	KED
	As	75	0.467	ug/L	0.033	7	3	126	6	KED
	Se	78	0.059	ug/L	0.150	253	6	8	44	KED
	Kr	83		ug/L			40	43	22	Standard
>	In	115		ug/L			478321	471124	0	Standard
	Sb	121	0.045	ug/L	0.003	6	287	871	5	Standard
	Sb	123	0.044	ug/L	0.003	6	216	647	5	Standard
>	Tb	159		ug/L			193052	198098	1	Standard
	Tl	205	0.000	ug/L	0.000	230	132	146	15	Standard
	Pb	208	0.051	ug/L	0.001	2	255	4100	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0435-09
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 06:18:21
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33209	76158	1	Standard
⌈>	**Ge**	**72**		ug/L			34361	37349	1	KED
|	**Cu**	**63**	**1.327**	ug/L	0.038	2	40	5034	1	KED
|	**Cu**	**65**	**1.352**	ug/L	0.045	3	17	2586	1	KED
|	**Zn**	**66**	**2.283**	ug/L	0.143	6	49	1233	4	KED
|	**Zn**	**67**	**2.491**	ug/L	0.134	5	10	224	3	KED
|	**As**	**75**	**0.497**	ug/L	0.001	0	3	135	1	KED
⌊	**Se**	**78**	**0.025**	ug/L	0.055	220	6	7	18	KED
	Kr	**83**		ug/L			40	45	8	Standard
⌈>	**In**	**115**		ug/L			478321	468072	0	Standard
|	**Sb**	**121**	**0.104**	ug/L	0.005	4	287	1623	3	Standard
⌊	**Sb**	**123**	**0.107**	ug/L	0.004	3	216	1257	3	Standard
⌈>	**Tb**	**159**		ug/L			193052	201434	2	Standard
|	**Tl**	**205**	**0.001**	ug/L	0.000	47	132	194	12	Standard
⌊	**Pb**	**208**	**0.393**	ug/L	0.008	2	255	30337	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0435-10
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 06:21:25
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33209	73113	1	Standard
⌈>	**Ge**	**72**		ug/L			34361	37163	1	KED
|	**Cu**	**63**	**1.208**	ug/L	0.014	1	40	4563	1	KED
|	**Cu**	**65**	**1.221**	ug/L	0.014	1	17	2325	1	KED
|	**Zn**	**66**	**2.849**	ug/L	0.086	3	49	1518	1	KED
|	**Zn**	**67**	**2.898**	ug/L	0.399	13	10	258	13	KED
|	**As**	**75**	**0.438**	ug/L	0.014	3	3	119	1	KED
⌊	**Se**	**78**	**0.122**	ug/L	0.082	66	6	10	18	KED
	Kr	**83**		ug/L			40	50	23	Standard
⌈>	**In**	**115**		ug/L			478321	471075	2	Standard
|	**Sb**	**121**	**0.101**	ug/L	0.003	3	287	1586	0	Standard
⌊	**Sb**	**123**	**0.099**	ug/L	0.005	4	216	1190	4	Standard
⌈>	**Tb**	**159**		ug/L			193052	200523	0	Standard
|	**Tl**	**205**	**0.000**	ug/L	0.000	79	132	156	10	Standard
⌊	**Pb**	**208**	**0.191**	ug/L	0.003	1	255	14832	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0514-05
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 06:24:53
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			33209	72161	1	Standard
>	Ge	72		ug/L			34361	31459	0	KED
	Cu	63	0.110	ug/L	0.003	2	40	385	2	KED
	Cu	65	0.113	ug/L	0.013	11	17	196	10	KED
	Zn	66	1.023	ug/L	0.050	4	49	490	4	KED
	Zn	67	2.242	ug/L	0.405	18	10	171	16	KED
	As	75	2.413	ug/L	0.042	1	3	543	1	KED
	Se	78	0.412	ug/L	0.105	25	6	15	14	KED
	Kr	83		ug/L			40	56	10	Standard
>	In	115		ug/L			478321	390917	3	Standard
	Sb	121	0.012	ug/L	0.005	37	287	368	13	Standard
	Sb	123	0.012	ug/L	0.001	7	216	276	1	Standard
>	Tb	159		ug/L			193052	171607	2	Standard
	Tl	205	0.000	ug/L	0.001	189	132	135	26	Standard
	Pb	208	0.009	ug/L	0.001	8	255	833	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0078-DUP1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 06:27:56
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			33209	71140	0	Standard
>	Ge	72		ug/L			34361	31563	0	KED
	Cu	63	0.091	ug/L	0.006	6	40	325	5	KED
	Cu	65	0.100	ug/L	0.018	17	17	176	16	KED
	Zn	66	0.694	ug/L	0.125	17	49	348	15	KED
	Zn	67	2.138	ug/L	0.416	19	10	164	17	KED
	As	75	2.373	ug/L	0.046	1	3	536	2	KED
	Se	78	0.334	ug/L	0.095	28	6	13	15	KED
	Kr	83		ug/L			40	55	22	Standard
>	In	115		ug/L			478321	389256	2	Standard
	Sb	121	0.012	ug/L	0.001	6	287	359	3	Standard
	Sb	123	0.011	ug/L	0.001	12	216	262	6	Standard
>	Tb	159		ug/L			193052	169106	0	Standard
	Tl	205	0.002	ug/L	0.001	43	132	210	20	Standard
	Pb	208	0.006	ug/L	0.001	8	255	606	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0078-MS1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 06:31:23
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			33209	69726	0	Standard
>	Ge	72		ug/L			34361	31764	0	KED
	Cu	63	26.121	ug/L	0.192	0	40	83600	0	KED
	Cu	65	26.020	ug/L	0.202	0	17	42042	0	KED
	Zn	66	75.039	ug/L	0.979	1	49	33047	1	KED
	Zn	67	72.447	ug/L	1.851	2	10	5282	2	KED
	As	75	27.159	ug/L	0.097	0	3	6146	0	KED
	Se	78	72.344	ug/L	1.865	2	6	1597	2	KED
	Kr	83		ug/L			40	59	25	Standard
>	In	115		ug/L			478321	395020	2	Standard
	Sb	121	0.079	ug/L	0.006	7	287	1088	5	Standard
	Sb	123	0.082	ug/L	0.007	8	216	856	5	Standard
>	Tb	159		ug/L			193052	171760	1	Standard
	Tl	205	25.217	ug/L	0.461	1	132	1291121	0	Standard
	Pb	208	25.991	ug/L	0.283	1	255	1695943	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0078-MSD1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 06:35:50
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33209	68664	0	Standard
⌈>	**Ge**	**72**		ug/L			34361	32041	0	KED
|	**Cu**	**63**	**26.261**	ug/L	0.440	1	40	84781	1	KED
|	**Cu**	**65**	**26.288**	ug/L	0.514	1	17	42843	1	KED
|	**Zn**	**66**	**75.877**	ug/L	0.633	0	49	33707	0	KED
|	**Zn**	**67**	**72.960**	ug/L	1.860	2	10	5366	2	KED
|	**As**	**75**	**27.416**	ug/L	0.242	0	3	6258	0	KED
⌊	**Se**	**78**	**73.584**	ug/L	0.315	0	6	1638	0	KED
	Kr	**83**		ug/L			40	55	10	Standard
⌈>	**In**	**115**		ug/L			478321	395144	0	Standard
|	**Sb**	**121**	**0.082**	ug/L	0.003	4	287	1127	3	Standard
⌊	**Sb**	**123**	**0.081**	ug/L	0.002	2	216	848	1	Standard
⌈>	**Tb**	**159**		ug/L			193052	170197	1	Standard
|	**Tl**	**205**	**26.158**	ug/L	0.302	1	132	1327309	1	Standard
⌊	**Pb**	**208**	**26.905**	ug/L	0.316	1	255	1739594	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLM
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 06:38:48
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33209	37768	1	Standard
⌈>	**Ge**	**72**		ug/L			34361	36606	3	KED
|	**Cu**	**63**	**0.003**	ug/L	0.002	83	40	53	17	KED
|	**Cu**	**65**	**0.005**	ug/L	0.006	120	17	27	43	KED
|	**Zn**	**66**	**0.081**	ug/L	0.108	132	49	94	60	KED
|	**Zn**	**67**	**0.095**	ug/L	0.126	131	10	19	56	KED
|	**As**	**75**	**0.007**	ug/L	0.000	6	3	5	5	KED
⌊	**Se**	**78**	**0.114**	ug/L	0.042	36	6	9	7	KED
	Kr	**83**		ug/L			40	40	35	Standard
⌈>	**In**	**115**		ug/L			478321	451536	2	Standard
|	**Sb**	**121**	**-0.019**	ug/L	0.001	3	287	39	22	Standard
⌊	**Sb**	**123**	**-0.019**	ug/L	0.001	3	216	27	24	Standard
⌈>	**Tb**	**159**		ug/L			193052	191151	0	Standard
|	**Tl**	**205**	**0.002**	ug/L	0.000	11	132	235	5	Standard
⌊	**Pb**	**208**	**-0.000**	ug/L	0.001	134	255	220	20	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVN
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 06:41:51
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33209	37614	0	Standard
⌈>	**Ge**	**72**		ug/L			34361	36829	1	KED
|	**Cu**	**63**	**53.406**	ug/L	1.372	2	40	198093	1	KED
|	**Cu**	**65**	**53.317**	ug/L	1.747	3	17	99835	2	KED
|	**Zn**	**66**	**51.778**	ug/L	1.289	2	49	26451	1	KED
|	**Zn**	**67**	**50.931**	ug/L	0.154	0	10	4309	1	KED
|	**As**	**75**	**49.901**	ug/L	0.650	1	3	13089	1	KED
⌊	**Se**	**78**	**48.061**	ug/L	1.188	2	6	1232	2	KED
	Kr	**83**		ug/L			40	48	2	Standard
⌈>	**In**	**115**		ug/L			478321	456138	1	Standard
|	**Sb**	**121**	**50.734**	ug/L	0.848	1	287	635472	0	Standard
⌊	**Sb**	**123**	**51.100**	ug/L	0.429	0	216	488209	1	Standard
⌈>	**Tb**	**159**		ug/L			193052	199334	1	Standard
|	**Tl**	**205**	**52.443**	ug/L	2.160	4	132	3116099	3	Standard
⌊	**Pb**	**208**	**52.170**	ug/L	0.821	1	255	3950271	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBN
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 06:47:38
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33209	36236	2	Standard
⌈>	**Ge**	**72**		ug/L			34361	36431	1	KED
|	**Cu**	**63**	**0.011**	ug/L	0.022	207	40	82	99	KED
|	**Cu**	**65**	**0.010**	ug/L	0.017	181	17	36	91	KED
|	**Zn**	**66**	**0.006**	ug/L	0.047	749	49	55	43	KED
|	**Zn**	**67**	**-0.046**	ug/L	0.023	50	10	7	25	KED
|	**As**	**75**	**0.016**	ug/L	0.005	34	3	7	20	KED
⌊	**Se**	**78**	**0.139**	ug/L	0.168	120	6	10	41	KED
	Kr	**83**		ug/L			40	57	8	Standard
⌈>	**In**	**115**		ug/L			478321	457242	2	Standard
|	**Sb**	**121**	**0.023**	ug/L	0.003	12	287	558	5	Standard
⌊	**Sb**	**123**	**0.023**	ug/L	0.005	21	216	429	13	Standard
⌈>	**Tb**	**159**		ug/L			193052	194568	0	Standard
|	**Tl**	**205**	**0.003**	ug/L	0.002	73	132	310	42	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.002	433	255	295	54	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 06:50:41
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33209	39979	0	Standard
⌈>	**Ge**	**72**		ug/L			34361	36258	0	KED
|	**Cu**	**63**	**0.047**	ug/L	0.005	11	40	213	9	KED
|	**Cu**	**65**	**0.052**	ug/L	0.011	21	17	114	17	KED
|	**Zn**	**66**	**0.172**	ug/L	0.028	16	49	138	10	KED
|	**Zn**	**67**	**0.092**	ug/L	0.120	129	10	19	51	KED
|	**As**	**75**	**-0.006**	ug/L	0.003	45	3	1	45	KED
⌊	**Se**	**78**	**0.029**	ug/L	0.039	131	6	7	12	KED
	Kr	**83**		ug/L			40	43	21	Standard
⌈>	**In**	**115**		ug/L			478321	518989	1	Standard
|	**Sb**	**121**	**0.006**	ug/L	0.002	27	287	398	7	Standard
⌊	**Sb**	**123**	**0.006**	ug/L	0.001	23	216	299	6	Standard
⌈>	**Tb**	**159**		ug/L			193052	207626	0	Standard
|	**Tl**	**205**	**0.000**	ug/L	0.000	36	132	165	5	Standard
⌊	**Pb**	**208**	**0.011**	ug/L	0.000	1	255	1145	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 06:53:44
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33209	39575	2	Standard
⌈>	**Ge**	**72**		ug/L			34361	36417	1	KED
|	**Cu**	**63**	**0.039**	ug/L	0.005	13	40	186	10	KED
|	**Cu**	**65**	**0.048**	ug/L	0.010	19	17	107	16	KED
|	**Zn**	**66**	**0.170**	ug/L	0.023	13	49	138	8	KED
|	**Zn**	**67**	**0.083**	ug/L	0.107	127	10	18	48	KED
|	**As**	**75**	**-0.002**	ug/L	0.001	47	3	2	10	KED
⌊	**Se**	**78**	**0.033**	ug/L	0.089	271	6	7	28	KED
	Kr	**83**		ug/L			40	41	20	Standard
⌈>	**In**	**115**		ug/L			478321	524793	4	Standard
|	**Sb**	**121**	**-0.008**	ug/L	0.001	17	287	195	10	Standard
⌊	**Sb**	**123**	**-0.006**	ug/L	0.002	32	216	169	16	Standard
⌈>	**Tb**	**159**		ug/L			193052	209950	1	Standard
|	**Tl**	**205**	**-0.000**	ug/L	0.000	14	132	118	4	Standard
⌊	**Pb**	**208**	**0.011**	ug/L	0.001	5	255	1137	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 06:56:47
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33209	39739	0	Standard
⌈>	**Ge**	**72**		ug/L			34361	36325	1	KED
|	**Cu**	**63**	**0.040**	ug/L	0.005	11	40	190	10	KED
|	**Cu**	**65**	**0.053**	ug/L	0.003	6	17	116	6	KED
|	**Zn**	**66**	**0.164**	ug/L	0.011	6	49	134	4	KED
|	**Zn**	**67**	**0.061**	ug/L	0.016	26	10	16	6	KED
|	**As**	**75**	**-0.002**	ug/L	0.007	341	3	2	66	KED
⌊	**Se**	**78**	**0.054**	ug/L	0.051	92	6	8	16	KED
	Kr	**83**		ug/L			40	44	13	Standard
⌈>	**In**	**115**		ug/L			478321	523385	1	Standard
|	**Sb**	**121**	**-0.011**	ug/L	0.001	11	287	152	13	Standard
⌊	**Sb**	**123**	**-0.012**	ug/L	0.002	14	216	106	16	Standard
⌈>	**Tb**	**159**		ug/L			193052	207657	1	Standard
|	**Tl**	**205**	**-0.001**	ug/L	0.000	33	132	106	12	Standard
⌊	**Pb**	**208**	**0.011**	ug/L	0.000	1	255	1147	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 06:59:50
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33209	37100	1	Standard
⌈>	**Ge**	**72**		ug/L			34361	35920	2	KED
|	**Cu**	**63**	**-0.004**	ug/L	0.002	40	40	27	21	KED
|	**Cu**	**65**	**-0.005**	ug/L	0.002	32	17	8	35	KED
|	**Zn**	**66**	**0.010**	ug/L	0.011	109	49	56	7	KED
|	**Zn**	**67**	**-0.052**	ug/L	0.026	50	10	6	31	KED
|	**As**	**75**	**-0.001**	ug/L	0.005	456	3	2	44	KED
⌊	**Se**	**78**	**0.082**	ug/L	0.019	23	6	9	2	KED
	Kr	**83**		ug/L			40	34	11	Standard
⌈>	**In**	**115**		ug/L			478321	452664	1	Standard
|	**Sb**	**121**	**-0.015**	ug/L	0.002	11	287	80	28	Standard
⌊	**Sb**	**123**	**-0.017**	ug/L	0.001	7	216	45	26	Standard
⌈>	**Tb**	**159**		ug/L			193052	188056	0	Standard
|	**Tl**	**205**	**0.006**	ug/L	0.001	10	132	479	7	Standard
⌊	**Pb**	**208**	**-0.002**	ug/L	0.000	11	255	102	16	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 07:02:53
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33209	37172	2	Standard
⌈>	**Ge**	**72**		ug/L			34361	35266	0	KED
|	**Cu**	**63**	**-0.004**	ug/L	0.002	44	40	27	21	KED
|	**Cu**	**65**	**-0.003**	ug/L	0.005	147	17	12	65	KED
|	**Zn**	**66**	**0.014**	ug/L	0.009	62	49	57	7	KED
|	**Zn**	**67**	**0.004**	ug/L	0.041	942	10	11	28	KED
|	**As**	**75**	**-0.002**	ug/L	0.001	63	3	2	10	KED
⌊	**Se**	**78**	**0.026**	ug/L	0.070	269	6	7	23	KED
	Kr	**83**		ug/L			40	38	12	Standard
⌈>	**In**	**115**		ug/L			478321	434564	1	Standard
|	**Sb**	**121**	**-0.017**	ug/L	0.000	1	287	62	6	Standard
⌊	**Sb**	**123**	**-0.017**	ug/L	0.001	6	216	43	21	Standard
⌈>	**Tb**	**159**		ug/L			193052	184721	2	Standard
|	**Tl**	**205**	**0.004**	ug/L	0.000	1	132	353	1	Standard
⌊	**Pb**	**208**	**-0.002**	ug/L	0.000	8	255	103	12	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 04, 2023 07:05:56
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\050323b.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			33209	36992	0	Standard
⌈>	**Ge**	**72**		ug/L			34361	35218	2	KED
|	**Cu**	**63**	**-0.006**	ug/L	0.000	7	40	19	5	KED
|	**Cu**	**65**	**-0.005**	ug/L	0.002	44	17	9	40	KED
|	**Zn**	**66**	**-0.003**	ug/L	0.026	772	49	48	23	KED
|	**Zn**	**67**	**-0.035**	ug/L	0.034	94	10	8	35	KED
|	**As**	**75**	**-0.007**	ug/L	0.004	53	3	1	78	KED
⌊	**Se**	**78**	**-0.005**	ug/L	0.031	642	6	6	11	KED
	Kr	**83**		ug/L			40	38	17	Standard
⌈>	**In**	**115**		ug/L			478321	452450	2	Standard
|	**Sb**	**121**	**-0.018**	ug/L	0.001	3	287	53	15	Standard
⌊	**Sb**	**123**	**-0.018**	ug/L	0.000	2	216	32	11	Standard
⌈>	**Tb**	**159**		ug/L			193052	185595	0	Standard
|	**Tl**	**205**	**0.002**	ug/L	0.000	8	132	259	3	Standard
⌊	**Pb**	**208**	**-0.002**	ug/L	0.000	2	255	92	4	Standard

INITIAL CALIBRATION DATA

EPA 6020B

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	GE00040	Instrument:	ICPMS1
Calibration Date:	05/10/2023 15:47		

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF
Silver-107	0	0	0.2	15570	10	16140.9	20	15789.15	50	15195.72	100	15002.63
Chromium-52	0	0	0.5	31020	10	15441.1	20	15000.05	50	14462.12	100	14509.21
Chromium-53	0	0	0.5	1694	10	1654.9	20	1689.3	50	1689.16	100	1684.98
Lead-208	0	0	0.1	90610	10	90331.7	20	89339.2	50	87570.58	100	84871.84

INITIAL CALIBRATION DATA

EPA 6020B

Laboratory: Analytical Resources, LLC
Instrument: ICPMS1
Calibration: GE00040
Calibration Date: 5/10/2023

COMPOUND	Mean RF	RF RSD	Linear COD	Quad COD	COD Limit	Q
Silver-107	12949.73	49.1	0.9999		0.998	
Chromium-52	15072.08	65.2	1.0000		0.998	
Chromium-53	1402.057	49.0	1.0000		0.998	
Lead-208	73787.22	49.1	0.9997		0.998	

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION DATA

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GE00040
Instrument: ICPMS1
Calibration Date: 05/10/2023 15:47

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF
Arsenic-75a	0	0	0.2	245	10	247.9	20	243.5	50	239.7	100	242.13
Cadmium-111	0	0	0.1	210	10	235.4	20	233.45	50	230.1	100	233.47
Cadmium-114	0	0	0.1	700	10	607.9	20	614.8	50	592.84	100	599.85
Copper-63	0	0	0.5	5004	10	4375	20	4306.25	50	4084.54	100	4030.52
Copper-65	0	0	0.5	2594	10	2169.7	20	2190.8	50	2078.94	100	2074.73
Zinc-66	0	0	6	522.8333	10	539	20	516.55	50	492.7	100	498.85
Zinc-67	0	0	6	86.16666	10	89.3	20	86.65	50	79.74	100	81.23

INITIAL CALIBRATION DATA

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Instrument: ICPMS1
Calibration: GE00040
Calibration Date: 5/10/2023

COMPOUND	Mean RF	RF RSD	Linear COD	Quad COD	COD Limit	Q
Arsenic-75a	203.0383	49.0	1.0000		0.998	
Cadmium-111	190.4033	49.2	0.9999		0.998	
Cadmium-114	519.2317	49.6	0.9999		0.998	
Copper-63	3633.385	49.9	0.9998		0.998	
Copper-65	1851.362	50.1	0.9999		0.998	
Zinc-66	428.3222	49.1	0.9998		0.998	
Zinc-67	70.51444	49.3	0.9996		0.998	

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 85DN5032601

Analysis Date: 5/10/23 **Analyst:** MB **Sequence:** SLEQ204 **Cal:** GEQQQ4Q

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
	✓	SEQ-CAL1	—		
	✓	-CAL2	—		
	✓	-CAL3	—		Sc↑ (New cones)
		SEQ-CAL1	LS276		
		-CAL2	LS225		
		-CAL3	LS226		
		-CAL4	LS227		
		-CAL5	LS228		
		-CAL6	LS229		
		-IBL1	—		
		-ICV1	L3575		
		-ICB1	LS276		
		-CCV1	LS228		
		-CCB1	LS276		
		-CRL1	LS226		
		-IFA1	L4688		C_6^{53}↑
		-IFB1	L4689		
		-HCV1	L478Q		In^{-1} noisy - Cd<100
		-HCV2	L4781		
		-IBL2	—		
		-CCV2			
		-CCB2			
	✓	-CAL1			
		-CCV3			

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 85DN5032601

Analysis Date: 5/10/23 **Analyst:** MB **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ-CCB3			
		BLDΦ687-BLK2	SWN	20	Ag, Zn only
	✓	↓ -BS2	↓	↓	STD Mode noisy ↓
E→D		↓ -BS2	↓	↓	↓
		BLEΦ298-BLK1	REN		
		↓ -BS1	↓		
		BLEΦΦ77-MS2	↓	2	As, Co, Zn only
		230Φ297-Φ1	SWN	100	Ba, Cr only
		BLDΦ728-DUP2	↓	↓	Ba, Cr RPD↑ ↓
	✓	↓ -MS2	↓	↓	Std Mode noisy ↓
		SEQ-IBL3			
		↓ -CCV4			
		↓ -CCB4			
		BLEΦ3Φ1-BLK1	REN		
		↓ -BS1	↓		
		BLEΦ143-BLK1	SWN	20	
	✓	↓ -BS1	↓	↓	Std Mode noisy
		↓ -BS1	↓	↓	
		BLDΦ728-MS2	↓	100	Ba, Cr%R↑ Ba, Cr only
		230Φ348-Φ1	REN	20	Pb only
		SEQ-IBL4			
		230Φ374-Φ3	REN	2	Pb only
		SEQ-IBL5			
		↓ -CCV5			

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 85DN5032601

Analysis Date: 5/10/23 **Analyst:** MB **Sequence:** — **Cal:** —

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ-CCB5			
	√	Rinse			Break in Analysis - Flushed Sample Intro
	√	SEQ-CAL1			Be Removed
		↓ -CCV6			
		↓ -CCB6			
		BLD0578-BLK1	SWN	20	
		↓ -BS1	↓	↓	
		BLE0072-BLK1			
		↓ -BS1			Std Mode no.3y
		230∅394-∅1			No Ag, Cr, Pb
		BLD0687-DUP2			Ag, Cr, Pb, Zn only
		-MS2			↓
		-MSD2			Ag %R ↓
		↓ -PS2	↓	↓	60mL K7409
		SEQ-IBL6			
		↓ -CCV7			
		↓ -CCB7			
		234∅467-∅2	SWN	20	
		-∅3	↓	↓	Std Mode no.3y — No Ag, Cr, Pb
		-∅4			
		-∅5			
		↓ -∅1			
		BLD0578-DUP1			
		↓ -MS1	↓	↓	Ag %R ↓

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 85DN5032601

Analysis Date: 5/10/23 **Analyst:** MS **Sequence:** — **Cal:** —

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		BLDΦ578-MSD1	SWN	20	
		↓ -PS1	↓	↓	60 mL K7409
		SEQ-IBL7			
		-CCV8			
		↓ -CCB8			
		23AΦ467-Φ6	SWN	20	
		-Φ7			
		-Φ8			
		↓ -Φ9			
		230Φ393-Φ4			In, Th ↑ / As, Cu, Pb, Zn ↑ / Cr only
		BLEΦΦ72-DUP1			
		-MS1			
		-MSD1			
		↓ -PS1	↓	↓	↓ / 60 mL K7409 / ↓ ↓
		SEQ-IBL8			
		-CCV9			
		↓ -CCB9			
		23CΦΦ71-Φ1	SWN	20	
		-Φ2			
		-Φ3			Std looks noisy — No Ag, Cr, Pb
		-Φ4			
		-Φ5			
		↓ -Φ6			
		23CΦ1Φ9-Φ2	↓	↓	

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 85DN5032601

Analysis Date: 5/10/23 **Analyst:** MB **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		23CΦ1Φ9-Φ3	SWN	20	
		23CΦ1Φ8-Φ2	↓	↓	
		SEQ-IBL9			
		-CCVA			
		-CCBA			
		23CΦ1Φ8-Φ6	SWN	20	
		-Φ7			
		-Φ8			
		-Φ9			
		23DΦΦΦ8-Φ1			Std Mode no Ag, Cr, Pb
		-Φ3			
		23DΦΦ37-Φ1			
		-Φ3			
		-Φ2			
		SEQ-IBLA			
		-CCVB			
		-CCBB			
	✓	-CAL1			
		-CCVC			
		-CCBC			
		23DΦΦ37-Φ4	SWN	20	
		23DΦΦ63-Φ1			
		-Φ3			
		23DΦ452-Φ1	REN	2	Pb only

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexion ICP-MS Serial No. 85DN5032601

Analysis Date: 5/10/23 **Analyst:** MB **Sequence:** ——— **Cal:** ———

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		23D0462-01	REN	2	Pb only
		23E0135-01	↓		
		↓ -02			
		↓ -03			
		↓ -04	↓		
		SEQ IBLB			
		↓ -CCVD			
		↓ -CCBD			
		23E0138-01	REN	2	
		23E0139-01	↓	↓	
		↓ -02			
		↓ -03	↓	↓	
		SEQ-IBLC			
		23E0136-01	REN		
		23E0137-01	↓		
		23D0477-21	↓		
		↓ -22	↓		
		SEQ-IBLD			
		↓ -CCVE			
		↓ -CCBE			
		23D0477-11	REN	2	No Pb
		↓ -13	↓	↓	↓
		↓ -02			
		23D0480-01	↓	5	↓

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ICP/MS - 01 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 85DN5032601

Analysis Date: 5/10/23 **Analyst:** MB **Sequence:** — **Cal:** —

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		SEQ-IBLE			
		230Φ537-Φ5	REN	5	Cr only
		BLEΦ12Φ-DUP3	↓	↓	↓
		-MS3			
		-MSD3	↓	↓	
		SEQ-IBLF			
		-CCVF			Pb↑
		-CCBF			
	✓	-CAL1			
		-CCVG			
		-CCBG			
		230Φ477-Φ4	REN		No Pb
		-Φ6	↓		↓
		-Φ8			
		-1Φ			
		-12			
		-2Φ			
		BLEΦ1Φ6-DUP1			
		-MS1			
		-MSD1	↓		
		SEQ-IBLG			
		-CCVH			Pb↑
		-CCBH			
		230Φ477-14	REN		No Pb

Analytical Resources, Incorporated
Analytical Chemists and Consultants

ICP/MS - 01 SAMPLE RUN LOG

PE Nexlon ICP-MS Serial No. 85DN5032601

Analysis Date: 5/10/23 **Analyst:** MB **Sequence:** — **Cal:** —

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep Code	Dilution	Comments
		230Φ477-16	REN		No Pb
		-18			
		-Φ1			
		-Φ3			
		-Φ7			
		-Φ9			
		-15			
		230Φ487-Φ2		5	
		SEQ-IBL1			
		-CCV1			
		-CCB1			
		230Φ487-Φ6	REN	2	
		-Φ5		↓	
		-Φ4			
		-Φ3			
		SEQ-IBL1			
		230Φ636-Φ1	REN	10	No Pb
		BLEΦ298-DUP1			
		-MS1			
		-MSD1			
		SEQ-IBL5			
		-CCV5			Pb↑
		-CCB5			
		Rinse/DI			

Performance Check Report

Sample ID: STD Performance Check
Sample Date/Time: Wednesday, May 10, 2023 14:43:46
Sample Description:
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\STD Performance Check.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Default\STD Performance Check.149
MassCal File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Conditions File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Dual Detector Mode: Pulse
Acq. Dead Time (ns): 35
Current Dead Time (ns): 35
Torch Z position (mm): 0.00

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD	Mode
	Be	9.0	5723.5	5723.480	56.895	1.0	Standard
	In	114.9	69596.5	-341751.511	924.539	0.3	Standard
	U	238.1	90402.3	90402.284	679.988	0.8	Standard
⌈	CeO	155.9	1526.9	0.017	0.000	1.7	Standard
| >	Ce	139.9	87807.4	87807.445	764.748	0.9	Standard
⌊	Ce++	70.0	422.3	0.005	0.000	1.5	Standard
	Bkgd	220.0	6.3	6.300	3.351	53.2	Standard

Current Conditions File Data

Current Value	Description
0.92	Nebulizer Gas Flow STD/KED [NEB]
1.20	Auxiliary Gas Flow
17.50	Plasma Gas Flow
-10.75	Deflector Voltage
1600.00	ICP RF Power
-1600.00	Analog Stage Voltage
1000.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset STD [QRO]
-10.00	Cell Rod Offset STD [CRO]
14.00	Discriminator Threshold
-5.00	Cell Entrance/Exit Voltage STD
0.00	RPa
0.45	RPq
0.92	DRC Mode NEB
-7.50	DRC Mode QRO
-2.00	DRC Mode CRO
-5.00	DRC Mode Cell Entrance/Exit Voltage
0.60	Cell Gas A
0.00	Cell Gas B
200.00	Axial Field Voltage
-11.00	KED Mode CRO
-12.00	KED Mode QRO
-11.00	KED Mode Cell Entrance Voltage
-33.00	KED Mode Cell Exit Voltage
0.00	KED Cell Gas A
3.00	KED Cell Gas B
0.00	KED RPa
0.25	KED RPq
125.00	KED Mode Axial Field Voltage

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDailyUCT.swz

Start Time: 5/10/2023 2:43:45 PM
End Time: 5/10/2023 2:52:33 PM

STD Performance Check - [Failed]
Obtained Intensity (Be 9): 5723.48
Obtained Intensity (In 115): 69596.54
Obtained Intensity (U 238): 90402.28
Obtained Intensity (Bkgd 220): 6.30 - <Target not achieved>
Obtained Formula (Ce++ 70 / Ce 140): 0.005 (=422.34 / 87807.44)
Obtained Formula (CeO 156 / Ce 140): 0.017 (=1526.95 / 87807.44)
Obtained RSD (Be 9): 0.0099
Obtained RSD (In 115): 0.0027
Obtained RSD (U 238): 0.0075

Torch Alignment - [Passed]

Vertical	Horizontal	Intensity
0.90 mm	0.96 mm	88181.32

Nebulizer Gas Flow STD/KED [NEB] - [Passed] Optimum value(s): 0.92
Obtained Intensity (In 115): 84673.19
Obtained Formula (CeO 156 / Ce 140): 0.0203 (=2063.15 / 101494.26)

Mass Calibration and Resolution - [Passed] Optimum value(s): N/A
Target/Obtained mass (7.016/7.025), Target/Obtained resolution (0.7/0.700)
Target/Obtained mass (23.985/24.025), Target/Obtained resolution (0.7/0.688)
Target/Obtained mass (114.904/114.875), Target/Obtained resolution (0.7/0.698)
Target/Obtained mass (238.05/238.075), Target/Obtained resolution (0.7/0.701)

QID STD/DRC - Optimum value(s): Correlation Coefficient = 0.999; Intercept = -15.80

KED Mode QID - Optimum value(s): Correlation Coefficient = 0.987; Intercept = -15.94

SmartTune Wizard - Details

```
Optimization Details

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDailyUCT.swz

Optimization Status

Start Time: 5/10/2023 2:43:45 PM

STD Performance Check
        Optimization Settings:
                Method: STD Performance Check.mth.
                Intensity Criterion: Be 9 > 2000
                Intensity Criterion: In 115 > 40000
                Intensity Criterion: U 238 > 30000
                Intensity Criterion: Bkgd 220 <= 5
                Formula Criterion: Ce++ 70 / Ce 140 <= 0.03
                Formula Criterion: CeO 156 / Ce 140 <= 0.025
                RSD Criterion: Be 9.0122 < 0.05
                RSD Criterion: In 114.904 < 0.05
                RSD Criterion: U 238.05 < 0.05

        Optimization Results:
        Initial Try
                Obtained Intensity (Be 9): 5723.48
                Obtained Intensity (In 115): 69596.54
                Obtained Intensity (U 238): 90402.28
                Obtained Intensity (Bkgd 220): 6.30 - <Target not achieved>
                Obtained Formula (Ce++ 70 / Ce 140): 0.005 (=422.34 / 87807.44)
                Obtained Formula (CeO 156 / Ce 140): 0.017 (=1526.95 / 87807.44)
                Obtained RSD (Be 9): 0.0099
                Obtained RSD (In 115): 0.0027
                Obtained RSD (U 238): 0.0075

                [Failed]
[Failed]

Torch Alignment
        Optimization Settings:
                Method: Torch Alignment.mth.
                Intensity Criterion: In 115 Maximum

        Optimization Results:
                Vertical      Horizontal      Intensity
[Passed]        0.90 mm     0.96 mm       88181.32

Nebulizer Gas Flow STD/KED [NEB]
        Optimization Settings:
                Method: Optimize.mth.
                        Initial Try - Start/End/Step: 0.89/0.96/0.01.
                Intensity Criterion: In 115 Maximum
                Formula Criterion: CeO 156 / Ce 140 <= 0.025

        Optimization Results:
        Initial Try

                Obtained Intensity (In 115): 84673.19
                Obtained Formula (CeO 156 / Ce 140): 0.0203 (=2063.15 / 101494.26)
[Passed]  Optimum value(s): 0.92
```

Mass Calibration and Resolution
	Optimization Settings:
		Method: Tuning.mth.
		MassCal File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
		Iterations: 6
		Target accuracy (+/- amu): 0.05 for Mass Cal. and 0.03 for Resolution
		Peak height (%) for Res. Opt.: 10

	Optimization Results:
	Initial Try
		Target/Obtained mass (7.016/7.025), Target/Obtained resolution (0.7/0.663) - <Target not achieved>
		Target/Obtained mass (23.985/23.975), Target/Obtained resolution (0.7/0.695)
		Target/Obtained mass (114.904/114.925), Target/Obtained resolution (0.7/0.699)
		Target/Obtained mass (238.05/238.075), Target/Obtained resolution (0.7/0.684)
		[Failed]
	Retry 1
		Target/Obtained mass (7.016/7.025), Target/Obtained resolution (0.7/0.700)
		Target/Obtained mass (23.985/24.025), Target/Obtained resolution (0.7/0.688)
		Target/Obtained mass (114.904/114.875), Target/Obtained resolution (0.7/0.698)
		Target/Obtained mass (238.05/238.075), Target/Obtained resolution (0.7/0.701)
[Passed] Optimum value(s): N/A

QID STD/DRC
	Optimization Settings:
		Method: QID Calibration.mth.
			Initial Try - Start/End/Step: -20/0/0.5.

	Optimization Results:
	Initial Try

  Optimum value(s): Correlation Coefficient = 0.999; Intercept = -15.80

	Analyte	Mass	Points	DAC	MaxIntensity

		Li	7	41	-16	46294.9
		Mg	24	41	-16	32452.8
		In	115	41	-13	86971.9
		Ce	140	41	-12	102732
		Pb	208	41	-11.5	62146.9
		U	238	41	-11.5	114360

KED Mode QID
	Optimization Settings:
		Method: QID Calibration.mth.
			Initial Try - Start/End/Step: -20/0/0.5.

	Optimization Results:
	Initial Try

  Optimum value(s): Correlation Coefficient = 0.987; Intercept = -15.94

	Analyte	Mass	Points	DAC	MaxIntensity

		Li	7	41	-16	37509.2
		Mg	24	41	-15.5	70742.7
		In	115	41	-13	125291
		Ce	140	41	-11.5	108660
		Pb	208	41	-11	62379.9

U	238	41	-10.5	141719

End Time: 5/10/2023 2:52:33 PM

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDailyUCT.swz

Start Time: 5/10/2023 2:52:35 PM
End Time: 5/10/2023 2:53:50 PM

KED Mode QID - Optimum value(s): Correlation Coefficient = 0.998; Intercept = -16.07

SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDailyUCT.swz

Optimization Status

Start Time: 5/10/2023 2:52:35 PM

KED Mode QID

Optimization Settings:

Method: QID Calibration.mth.

Initial Try - Start/End/Step: -20/0/0.5.

Optimization Results:

Initial Try

Optimum value(s): Correlation Coefficient = 0.998; Intercept = -16.07

Analyte	Mass	Points	DAC	MaxIntensity
Li	7	41	-16	38908.9
Mg	24	41	-15.5	65678.6
In	115	41	-12.5	124315
Ce	140	41	-11.5	108152
Pb	208	41	-11	62408
U	238	41	-11	146831

End Time: 5/10/2023 2:53:50 PM

Performance Check Report

Sample ID: STD Performance Check
Sample Date/Time: Wednesday, May 10, 2023 14:53:54
Sample Description:
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\STD Performance Check.mth
Dataset File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\DataSet\Default\STD Performance Check.157
MassCal File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Conditions File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Dual Detector Mode: Pulse
Acq. Dead Time (ns): 35
Current Dead Time (ns): 35
Torch Z position (mm): 0.00

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD	Mode
	Be	9.0	6511.5	6511.484	145.377	2.2	Standard
	In	114.9	81325.5	81325.516	897.738	1.1	Standard
	U	238.1	113291.7	113291.661	1664.283	1.5	Standard
⎡	CeO	155.9	1966.6	0.020	0.000	2.4	Standard
| >	Ce	139.9	98993.0	98993.030	999.094	1.0	Standard
⎣	Ce++	70.0	668.1	0.007	0.000	3.1	Standard
	Bkgd	220.0	1.1	1.133	0.650	57.3	Standard

Current Conditions File Data

Current Value	Description
0.92	Nebulizer Gas Flow STD/KED [NEB]
1.20	Auxiliary Gas Flow
17.50	Plasma Gas Flow
-10.75	Deflector Voltage
1600.00	ICP RF Power
-1600.00	Analog Stage Voltage
1000.00	Pulse Stage Voltage
0.00	Quadrupole Rod Offset STD [QRO]
-10.00	Cell Rod Offset STD [CRO]
14.00	Discriminator Threshold
-5.00	Cell Entrance/Exit Voltage STD
0.00	RPa
0.45	RPq
0.92	DRC Mode NEB
-7.50	DRC Mode QRO
-2.00	DRC Mode CRO
-5.00	DRC Mode Cell Entrance/Exit Voltage
0.60	Cell Gas A
0.00	Cell Gas B
200.00	Axial Field Voltage
-11.00	KED Mode CRO
-12.00	KED Mode QRO
-11.00	KED Mode Cell Entrance Voltage
-33.00	KED Mode Cell Exit Voltage
0.00	KED Cell Gas A
3.00	KED Cell Gas B
0.00	KED RPa
0.25	KED RPq
125.00	KED Mode Axial Field Voltage

SmartTune Wizard - Summary

Optimization Summary

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDailyUCT.swz

Start Time: 5/10/2023 2:53:54 PM
End Time: 5/10/2023 2:55:58 PM

STD Performance Check - [Passed] Optimum value(s): N/A
Obtained Intensity (Be 9): 6511.48
Obtained Intensity (In 115): 81325.52
Obtained Intensity (U 238): 113291.66
Obtained Intensity (Bkgd 220): 1.13
Obtained Formula (Ce++ 70 / Ce 140): 0.007 (=668.15 / 98993.03)
Obtained Formula (CeO 156 / Ce 140): 0.020 (=1966.60 / 98993.03)
Obtained RSD (Be 9): 0.0223
Obtained RSD (In 115): 0.0110
Obtained RSD (U 238): 0.0147

SmartTune Wizard - Details

Optimization Details

SmartTune file: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Wizard\SmartTune\ARISmartTuneDailyUCT.swz

Optimization Status

Start Time: 5/10/2023 2:53:54 PM

STD Performance Check
	Optimization Settings:
		Method: STD Performance Check.mth.
		Intensity Criterion: Be 9 > 2000
		Intensity Criterion: In 115 > 40000
		Intensity Criterion: U 238 > 30000
		Intensity Criterion: Bkgd 220 <= 5
		Formula Criterion: Ce++ 70 / Ce 140 <= 0.03
		Formula Criterion: CeO 156 / Ce 140 <= 0.025
		RSD Criterion: Be 9.0122 < 0.05
		RSD Criterion: In 114.904 < 0.05
		RSD Criterion: U 238.05 < 0.05

	Optimization Results:
	Initial Try
		Obtained Intensity (Be 9): 6511.48
		Obtained Intensity (In 115): 81325.52
		Obtained Intensity (U 238): 113291.66
		Obtained Intensity (Bkgd 220): 1.13
		Obtained Formula (Ce++ 70 / Ce 140): 0.007 (=668.15 / 98993.03)
		Obtained Formula (CeO 156 / Ce 140): 0.020 (=1966.60 / 98993.03)
		Obtained RSD (Be 9): 0.0223
		Obtained RSD (In 115): 0.0110
		Obtained RSD (U 238): 0.0147

[Passed] Optimum value(s): N/A

End Time: 5/10/2023 2:55:58 PM

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 15:28:05

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				24207	2	Standard
>	**Sc**	**45**		ug/L				474403	0	Standard
	Cr	**52**		ug/L				8456	1	Standard
	Cr	**53**		ug/L				81	14	Standard
>	**Ge**	**72**		ug/L				28967	4	KED
	Ni	**60**		ug/L				19	10	KED
	Ni	**62**		ug/L				5	78	KED
	Cu	**63**		ug/L				43	9	KED
	Cu	**65**		ug/L				24	15	KED
	Zn	**66**		ug/L				19	22	KED
	Zn	**67**		ug/L				2	173	KED
	As	**75**		ug/L				1	33	KED
	Y	**89**		ug/L				49674	0	Standard
	Kr	**83**		ug/L				32	42	Standard
>	**In-1**	**115**		ug/L				6259	5	KED
	Cd	**111**		ug/L				0	100	KED
	Cd	**114**		ug/L				0	206	KED
>	**In**	**115**		ug/L				474692	1	Standard
	Ag	**107**		ug/L				12	31	Standard
	Ba	**135**		ug/L				15	25	Standard
	Ba	**137**		ug/L				31	30	Standard
>	**Tb**	**159**		ug/L				170775	0	Standard
	Pb	**208**		ug/L				201	12	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL2
Sample Dil Factor:
Comments:

DEL

Sample Date/Time: Wednesday, May 10, 2023 15:32:34
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			24207	25883	2	Standard
⌈>	**Sc**	**45**		ug/L			474403	523902	3	Standard
|	**Cr**	**52**	**0.500**	ug/L	0.021	4	8456	15234	1	Standard
⌊	**Cr**	**53**	**0.500**	ug/L	0.020	4	81	873	1	Standard
⌈>	**Ge**	**72**		ug/L			28967	29195	0	KED
|	**Ni**	**60**	**0.500**	ug/L	0.034	6	19	780	6	KED
|	**Ni**	**62**	**0.500**	ug/L	0.050	10	5	116	9	KED
|	**Cu**	**63**	**0.500**	ug/L	0.026	5	43	2412	4	KED
|	**Cu**	**65**	**0.500**	ug/L	0.034	6	24	1190	5	KED
|	**Zn**	**66**	**6.000**	ug/L	0.090	1	19	3153	0	KED
|	**Zn**	**67**	**6.000**	ug/L	0.211	3	2	498	3	KED
⌊	**As**	**75**	**0.200**	ug/L	0.040	19	1	51	18	KED
	Y	**89**		ug/L			49674	50949	1	Standard
	Kr	**83**		ug/L			32	51	16	Standard
⌈>	**In-1**	**115**		ug/L			6259	6039	1	KED
|	**Cd**	**111**	**0.100**	ug/L	0.020	19	0	23	18	KED
⌊	**Cd**	**114**	**0.100**	ug/L	0.009	9	0	63	7	KED
⌈>	**In**	**115**		ug/L			474692	480250	1	Standard
|	**Ag**	**107**	**0.200**	ug/L	0.005	2	12	3172	2	Standard
|	**Ba**	**135**	**0.500**	ug/L	0.016	3	15	2622	4	Standard
⌊	**Ba**	**137**	**0.500**	ug/L	0.009	1	31	4621	2	Standard
⌈>	**Tb**	**159**		ug/L			170775	172878	1	Standard
⌊	**Pb**	**208**	**0.100**	ug/L	0.002	2	201	9324	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL3
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 15:37:02

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			24207	29617	2	Standard
> Sc	45		ug/L			474403	621120	0	Standard
Cr	52	10.000	ug/L	0.223	2	8456	152564	2	Standard
Cr	53	9.997	ug/L	0.230	2	81	16498	2	Standard
> Ge	72		ug/L			28967	29364	0	KED
Ni	60	9.999	ug/L	0.134	1	19	14840	1	KED
Ni	62	10.001	ug/L	0.349	3	5	2328	3	KED
Cu	63	9.997	ug/L	0.249	2	43	42394	2	KED
Cu	65	9.998	ug/L	0.087	0	24	21761	0	KED
Zn	66	9.987	ug/L	0.291	2	19	5247	2	KED
Zn	67	10.157	ug/L	0.430	4	2	885	3	KED
As	75	10.000	ug/L	0.358	3	1	2452	3	KED
Y	89		ug/L			49674	52739	0	Standard
Kr	83		ug/L			32	46	26	Standard
> In-1	115		ug/L			6259	6173	3	KED
Cd	111	10.000	ug/L	0.443	4	0	2332	4	KED
Cd	114	10.000	ug/L	0.345	3	0	6021	3	KED
> In	115		ug/L			474692	482786	2	Standard
Ag	107	10.000	ug/L	0.201	2	12	164963	1	Standard
Ba	135	10.001	ug/L	0.476	4	15	53839	2	Standard
Ba	137	10.001	ug/L	0.260	2	31	95966	0	Standard
> Tb	159		ug/L			170775	178874	0	Standard
Pb	208	10.000	ug/L	0.139	1	201	905833	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 15:47:22
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				23729	0	Standard
⎡>	**Sc**	**45**		ug/L				509000	1	Standard
⎢	**Cr**	**52**		ug/L				8828	1	Standard
⎣	**Cr**	**53**		ug/L				74	13	Standard
⎡>	**Ge**	**72**		ug/L				29303	1	KED
⎢	**Ni**	**60**		ug/L				5	21	KED
⎢	**Ni**	**62**		ug/L				1	100	KED
⎢	**Cu**	**63**		ug/L				34	20	KED
⎢	**Cu**	**65**		ug/L				19	27	KED
⎢	**Zn**	**66**		ug/L				23	32	KED
⎢	**Zn**	**67**		ug/L				5	0	KED
⎣	**As**	**75**		ug/L				3	9	KED
	Y	**89**		ug/L				48310	2	Standard
	Kr	**83**		ug/L				47	34	Standard
⎡>	**In-1**	**115**		ug/L				6273	3	KED
⎢	**Cd**	**111**		ug/L				2	49	KED
⎣	**Cd**	**114**		ug/L				4	66	KED
⎡>	**In**	**115**		ug/L				463649	3	Standard
⎢	**Ag**	**107**		ug/L				35	3	Standard
⎢	**Ba**	**135**		ug/L				24	20	Standard
⎣	**Ba**	**137**		ug/L				33	18	Standard
⎡>	**Tb**	**159**		ug/L				169186	2	Standard
⎣	**Pb**	**208**		ug/L				224	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL2
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 15:51:51
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23729	25525	0	Standard
⌈>	**Sc**	**45**		ug/L			509000	512472	1	Standard
|	**Cr**	**52**	**0.500**	ug/L	0.020	4	8828	15510	0	Standard
⌊	**Cr**	**53**	**0.500**	ug/L	0.011	2	74	847	3	Standard
⌈>	**Ge**	**72**		ug/L			29303	29478	0	KED
|	**Ni**	**60**	**0.500**	ug/L	0.012	2	5	719	3	KED
|	**Ni**	**62**	**0.500**	ug/L	0.073	14	1	114	13	KED
|	**Cu**	**63**	**0.500**	ug/L	0.023	4	34	2502	5	KED
|	**Cu**	**65**	**0.500**	ug/L	0.009	1	19	1297	1	KED
|	**Zn**	**66**	**6.000**	ug/L	0.034	0	23	3137	0	KED
|	**Zn**	**67**	**6.000**	ug/L	0.410	6	5	517	5	KED
⌊	**As**	**75**	**0.200**	ug/L	0.016	8	3	49	7	KED
	Y	**89**		ug/L			48310	49051	0	Standard
	Kr	**83**		ug/L			47	36	14	Standard
⌈>	**In-1**	**115**		ug/L			6273	6139	4	KED
|	**Cd**	**111**	**0.100**	ug/L	0.032	31	2	21	31	KED
⌊	**Cd**	**114**	**0.100**	ug/L	0.017	16	4	70	16	KED
⌈>	**In**	**115**		ug/L			463649	458533	2	Standard
|	**Ag**	**107**	**0.200**	ug/L	0.006	3	35	3114	1	Standard
|	**Ba**	**135**	**0.500**	ug/L	0.031	6	24	2588	4	Standard
⌊	**Ba**	**137**	**0.500**	ug/L	0.021	4	33	4565	3	Standard
⌈>	**Tb**	**159**		ug/L			169186	175328	1	Standard
⌊	**Pb**	**208**	**0.100**	ug/L	0.002	2	224	9061	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL3
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 15:56:19
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23729	28227	5	Standard
⌈>	**Sc**	**45**		ug/L			509000	547188	1	Standard
|	**Cr**	**52**	**10.001**	ug/L	0.180	1	8828	154411	2	Standard
⌊	**Cr**	**53**	**10.000**	ug/L	0.148	1	74	16549	0	Standard
⌈>	**Ge**	**72**		ug/L			29303	30268	1	KED
|	**Ni**	**60**	**10.001**	ug/L	0.091	0	5	15465	0	KED
|	**Ni**	**62**	**10.001**	ug/L	0.274	2	1	2447	1	KED
|	**Cu**	**63**	**9.996**	ug/L	0.164	1	34	43750	0	KED
|	**Cu**	**65**	**9.995**	ug/L	0.109	1	19	21697	1	KED
|	**Zn**	**66**	**10.019**	ug/L	0.157	1	23	5390	0	KED
|	**Zn**	**67**	**10.037**	ug/L	0.375	3	5	893	2	KED
⌊	**As**	**75**	**10.000**	ug/L	0.098	0	3	2479	0	KED
	Y	**89**		ug/L			48310	52333	3	Standard
	Kr	**83**		ug/L			47	35	29	Standard
⌈>	**In-1**	**115**		ug/L			6273	6321	4	KED
|	**Cd**	**111**	**10.000**	ug/L	0.361	3	2	2354	2	KED
⌊	**Cd**	**114**	**10.000**	ug/L	0.490	4	4	6079	0	KED
⌈>	**In**	**115**		ug/L			463649	495399	2	Standard
|	**Ag**	**107**	**10.000**	ug/L	0.327	3	35	161409	1	Standard
|	**Ba**	**135**	**10.000**	ug/L	0.202	2	24	54582	0	Standard
⌊	**Ba**	**137**	**9.999**	ug/L	0.141	1	33	95918	1	Standard
⌈>	**Tb**	**159**		ug/L			169186	178590	0	Standard
⌊	**Pb**	**208**	**10.000**	ug/L	0.024	0	224	903317	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL4
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 16:01:02
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23729	29878	4	Standard
⌈>	**Sc**	**45**		ug/L			509000	545359	2	Standard
|	**Cr**	**52**	**20.025**	ug/L	0.642	3	8828	300001	2	Standard
⌊	**Cr**	**53**	**20.105**	ug/L	0.478	2	74	33786	1	Standard
⌈>	**Ge**	**72**		ug/L			29303	30442	0	KED
|	**Ni**	**60**	**19.876**	ug/L	0.260	1	5	30161	1	KED
|	**Ni**	**62**	**20.030**	ug/L	0.349	1	1	4958	1	KED
|	**Cu**	**63**	**19.912**	ug/L	0.144	0	34	86125	1	KED
|	**Cu**	**65**	**20.015**	ug/L	0.243	1	19	43816	1	KED
|	**Zn**	**66**	**19.772**	ug/L	0.229	1	23	10331	1	KED
|	**Zn**	**67**	**19.846**	ug/L	0.513	2	5	1733	2	KED
⌊	**As**	**75**	**19.906**	ug/L	0.056	0	3	4870	0	KED
	Y	**89**		ug/L			48310	53094	1	Standard
	Kr	**83**		ug/L			47	41	20	Standard
⌈>	**In-1**	**115**		ug/L			6273	6343	2	KED
|	**Cd**	**111**	**19.953**	ug/L	0.881	4	2	4669	3	KED
⌊	**Cd**	**114**	**20.027**	ug/L	0.435	2	4	12296	1	KED
⌈>	**In**	**115**		ug/L			463649	489391	1	Standard
|	**Ag**	**107**	**19.959**	ug/L	0.325	1	35	315783	3	Standard
|	**Ba**	**135**	**19.968**	ug/L	0.582	2	24	106955	1	Standard
⌊	**Ba**	**137**	**20.045**	ug/L	0.402	2	33	191641	0	Standard
⌈>	**Tb**	**159**		ug/L			169186	179464	1	Standard
⌊	**Pb**	**208**	**19.937**	ug/L	0.237	1	224	1786784	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL5
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 16:05:54
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23729	25400	2	Standard
⌈>	**Sc**	**45**		ug/L			509000	558473	1	Standard
|	**Cr**	**52**	**49.655**	ug/L	0.911	1	8828	723106	2	Standard
⌊	**Cr**	**53**	**49.854**	ug/L	0.903	1	74	84458	2	Standard
⌈>	**Ge**	**72**		ug/L			29303	30015	2	KED
|	**Ni**	**60**	**49.697**	ug/L	0.680	1	5	72172	3	KED
|	**Ni**	**62**	**49.505**	ug/L	0.762	1	1	11513	2	KED
|	**Cu**	**63**	**49.635**	ug/L	1.321	2	34	204227	4	KED
|	**Cu**	**65**	**49.687**	ug/L	0.309	0	19	103947	1	KED
|	**Zn**	**66**	**49.611**	ug/L	1.423	2	23	24635	4	KED
|	**Zn**	**67**	**49.320**	ug/L	1.429	2	5	3987	4	KED
⌊	**As**	**75**	**49.951**	ug/L	0.505	1	3	11985	2	KED
	Y	**89**		ug/L			48310	50964	0	Standard
	Kr	**83**		ug/L			47	54	10	Standard
⌈>	**In-1**	**115**		ug/L			6273	6292	0	KED
|	**Cd**	**111**	**49.924**	ug/L	0.530	1	2	11505	0	KED
⌊	**Cd**	**114**	**49.773**	ug/L	0.306	0	4	29642	0	KED
⌈>	**In**	**115**		ug/L			463649	482571	0	Standard
|	**Ag**	**107**	**49.781**	ug/L	0.756	1	35	759786	0	Standard
|	**Ba**	**135**	**49.982**	ug/L	0.497	0	24	263565	1	Standard
⌊	**Ba**	**137**	**50.029**	ug/L	0.399	0	33	473061	0	Standard
⌈>	**Tb**	**159**		ug/L			169186	178836	0	Standard
⌊	**Pb**	**208**	**49.835**	ug/L	0.541	1	224	4378529	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL6
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 16:12:26
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23729	28122	4	Standard
⌈>	**Sc**	**45**		ug/L			509000	558930	1	Standard
|	**Cr**	**52**	**100.051**	ug/L	0.647	0	8828	1450921	2	Standard
⌊	**Cr**	**53**	**99.871**	ug/L	2.158	2	74	168498	0	Standard
⌈>	**Ge**	**72**		ug/L			29303	30158	2	KED
|	**Ni**	**60**	**99.810**	ug/L	1.688	1	5	144647	0	KED
|	**Ni**	**62**	**99.827**	ug/L	1.638	1	1	23190	3	KED
|	**Cu**	**63**	**99.425**	ug/L	2.145	2	34	403052	1	KED
|	**Cu**	**65**	**99.706**	ug/L	2.344	2	19	207473	1	KED
|	**Zn**	**66**	**100.020**	ug/L	2.199	2	23	49885	1	KED
|	**Zn**	**67**	**100.026**	ug/L	1.801	1	5	8123	2	KED
⌊	**As**	**75**	**100.105**	ug/L	1.080	1	3	24213	1	KED
	Y	**89**		ug/L			48310	51944	4	Standard
	Kr	**83**		ug/L			47	57	13	Standard
⌈>	**In-1**	**115**		ug/L			6273	6458	1	KED
|	**Cd**	**111**	**99.701**	ug/L	0.430	0	2	23347	1	KED
⌊	**Cd**	**114**	**99.566**	ug/L	0.654	0	4	59985	0	KED
⌈>	**In**	**115**		ug/L			463649	450932	0	Standard
|	**Ag**	**107**	**101.152**	ug/L	1.685	1	35	1500263	1	Standard
|	**Ba**	**135**	**101.705**	ug/L	0.844	0	24	531312	1	Standard
⌊	**Ba**	**137**	**101.623**	ug/L	2.092	2	33	949210	1	Standard
⌈>	**Tb**	**159**		ug/L			169186	178763	1	Standard
⌊	**Pb**	**208**	**99.203**	ug/L	0.769	0	224	8487184	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 16:19:38
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23729	24581	4	Standard
⌈>	**Sc**	**45**		ug/L			509000	533088	2	Standard
|	**Cr**	**52**	**0.011**	ug/L	0.014	123	8828	9404	4	Standard
⌊	**Cr**	**53**	**0.004**	ug/L	0.001	25	74	84	4	Standard
⌈>	**Ge**	**72**		ug/L			29303	30002	0	KED
|	**Ni**	**60**	**0.000**	ug/L	0.001	370	5	5	33	KED
|	**Ni**	**62**	**-0.000**	ug/L	0.008	4930	1	1	100	KED
|	**Cu**	**63**	**0.003**	ug/L	0.000	18	34	46	4	KED
|	**Cu**	**65**	**0.001**	ug/L	0.006	428	19	22	50	KED
|	**Zn**	**66**	**0.007**	ug/L	0.022	332	23	27	39	KED
|	**Zn**	**67**	**-0.025**	ug/L	0.062	245	5	3	132	KED
⌊	**As**	**75**	**0.004**	ug/L	0.003	71	3	4	17	KED
	Y	**89**		ug/L			48310	48443	1	Standard
	Kr	**83**		ug/L			47	46	13	Standard
⌈>	**In-1**	**115**		ug/L			6273	6574	1	KED
|	**Cd**	**111**	**-0.006**	ug/L	0.004	71	2	0	100	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.005	343	4	3	89	KED
⌈>	**In**	**115**		ug/L			463649	469846	4	Standard
|	**Ag**	**107**	**0.004**	ug/L	0.001	32	35	105	21	Standard
|	**Ba**	**135**	**-0.001**	ug/L	0.000	15	24	19	0	Standard
⌊	**Ba**	**137**	**0.000**	ug/L	0.001	351	33	37	31	Standard
⌈>	**Tb**	**159**		ug/L			169186	173731	3	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	37	224	311	8	Standard

Sample Information

Sample Date/Time: Wednesday, May 10, 2023 16:12:26
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.m
Mass Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Conditions File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023.cal

Calibration

Analyte	Mass	**r Corr Coef**	Slope	Std 1 Conc	Std 2 Conc	Std 3 Conc	Std 4 Conc	Std 5 Conc
C	13							
Sc	45							
Cr	52	**1.0000**	0.026	0.50	10	20	50	100
Cr	53	**1.0000**	0.003	0.50	10	20	50	100
Ge	72							
Ni	60	**1.0000**	0.048	0.50	10	20	50	100
Ni	62	**0.9999**	0.008	0.50	10	20	50	100
Cu	63	**0.9999**	0.134	0.50	10	20	50	100
Cu	65	**1.0000**	0.069	0.50	10	20	50	100
Zn	66	**1.0000**	0.017	6.00	10	20	50	100
Zn	67	**0.9999**	0.003	6.00	10	20	50	100
As	75	**1.0000**	0.008	0.20	10	20	50	100
Y	89							
Kr	83							
In-1	115							
Cd	111	**1.0000**	0.036	0.10	10	20	50	100
Cd	114	**1.0000**	0.093	0.10	10	20	50	100
In	115							
Ag	107	**0.9998**	0.033	0.20	10	20	50	100
Ba	135	**0.9995**	0.012	0.50	10	20	50	100
Ba	137	**0.9996**	0.021	0.50	10	20	50	100
Tb	159							
Pb	208	**0.9999**	0.479	0.10	10	20	50	100

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-ICV1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 16:25:31
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23729	29797	4	Standard
⌈>	**Sc**	**45**		ug/L			509000	564850	0	Standard
|	**Cr**	**52**	**52.907**	ug/L	1.586	2	8828	780016	3	Standard
⌊	**Cr**	**53**	**51.308**	ug/L	1.827	3	74	87546	3	Standard
⌈>	**Ge**	**72**		ug/L			29303	31782	0	KED
|	**Ni**	**60**	**50.903**	ug/L	0.178	0	5	77766	0	KED
|	**Ni**	**62**	**51.012**	ug/L	1.334	2	1	12489	2	KED
|	**Cu**	**63**	**52.299**	ug/L	0.986	1	34	223527	2	KED
|	**Cu**	**65**	**51.383**	ug/L	1.337	2	19	112722	2	KED
|	**Zn**	**66**	**50.838**	ug/L	0.626	1	23	26741	1	KED
|	**Zn**	**67**	**50.580**	ug/L	0.623	1	5	4332	0	KED
⌊	**As**	**75**	**48.181**	ug/L	0.178	0	3	12285	0	KED
	Y	**89**		ug/L			48310	52288	1	Standard
	Kr	**83**		ug/L			47	44	15	Standard
⌈>	**In-1**	**115**		ug/L			6273	6677	2	KED
|	**Cd**	**111**	**51.665**	ug/L	1.744	3	2	12504	2	KED
⌊	**Cd**	**114**	**51.793**	ug/L	1.375	2	4	32251	0	KED
⌈>	**In**	**115**		ug/L			463649	478187	2	Standard
|	**Ag**	**107**	**50.790**	ug/L	1.892	3	35	798375	1	Standard
|	**Ba**	**135**	**49.978**	ug/L	0.851	1	24	276825	1	Standard
⌊	**Ba**	**137**	**50.115**	ug/L	0.177	0	33	496417	2	Standard
⌈>	**Tb**	**159**		ug/L			169186	183312	0	Standard
⌊	**Pb**	**208**	**52.638**	ug/L	1.364	2	224	4617664	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-ICB1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 16:32:43
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23729	26356	3	Standard
⌈>	**Sc**	**45**		ug/L			509000	539338	1	Standard
|	**Cr**	**52**	**0.017**	ug/L	0.016	94	8828	9587	1	Standard
⌊	**Cr**	**53**	**-0.002**	ug/L	0.002	123	74	75	6	Standard
⌈>	**Ge**	**72**		ug/L			29303	30568	2	KED
|	**Ni**	**60**	**0.001**	ug/L	0.003	424	5	6	69	KED
|	**Ni**	**62**	**0.005**	ug/L	0.012	239	1	3	91	KED
|	**Cu**	**63**	**0.005**	ug/L	0.004	81	34	57	30	KED
|	**Cu**	**65**	**0.004**	ug/L	0.005	126	19	28	37	KED
|	**Zn**	**66**	**0.020**	ug/L	0.026	126	23	34	38	KED
|	**Zn**	**67**	**-0.003**	ug/L	0.045	1369	5	5	66	KED
⌊	**As**	**75**	**0.007**	ug/L	0.008	127	3	4	43	KED
	Y	**89**		ug/L			48310	50406	2	Standard
	Kr	**83**		ug/L			47	43	11	Standard
⌈>	**In-1**	**115**		ug/L			6273	6493	1	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.004	232	2	1	50	KED
⌊	**Cd**	**114**	**-0.006**	ug/L	0.004	65	4	1	176	KED
⌈>	**In**	**115**		ug/L			463649	465713	1	Standard
|	**Ag**	**107**	**0.002**	ug/L	0.001	51	35	73	26	Standard
|	**Ba**	**135**	**-0.001**	ug/L	0.001	199	24	21	28	Standard
⌊	**Ba**	**137**	**0.000**	ug/L	0.001	389	33	36	31	Standard
⌈>	**Tb**	**159**		ug/L			169186	175668	1	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	62	224	286	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 16:37:25
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23729	26594	2	Standard
⌈>	**Sc**	**45**		ug/L			509000	564599	1	Standard
|	**Cr**	**52**	**51.471**	ug/L	0.725	1	8828	758784	2	Standard
⌊	**Cr**	**53**	**50.536**	ug/L	0.353	0	74	86184	1	Standard
⌈>	**Ge**	**72**		ug/L			29303	32146	1	KED
|	**Ni**	**60**	**49.546**	ug/L	1.173	2	5	76549	1	KED
|	**Ni**	**62**	**49.050**	ug/L	0.276	0	1	12146	1	KED
|	**Cu**	**63**	**49.725**	ug/L	0.346	0	34	214938	0	KED
|	**Cu**	**65**	**49.566**	ug/L	1.054	2	19	109970	1	KED
|	**Zn**	**66**	**49.855**	ug/L	1.259	2	23	26518	1	KED
|	**Zn**	**67**	**50.337**	ug/L	1.507	2	5	4360	2	KED
⌊	**As**	**75**	**49.689**	ug/L	1.019	2	3	12812	1	KED
	Y	**89**		ug/L			48310	53576	2	Standard
	Kr	**83**		ug/L			47	42	34	Standard
⌈>	**In-1**	**115**		ug/L			6273	6756	1	KED
|	**Cd**	**111**	**49.652**	ug/L	0.968	1	2	12162	1	KED
⌊	**Cd**	**114**	**50.647**	ug/L	0.242	0	4	31925	1	KED
⌈>	**In**	**115**		ug/L			463649	482029	1	Standard
|	**Ag**	**107**	**50.096**	ug/L	0.827	1	35	794203	0	Standard
|	**Ba**	**135**	**49.631**	ug/L	0.673	1	24	277141	0	Standard
⌊	**Ba**	**137**	**49.270**	ug/L	0.397	0	33	491965	0	Standard
⌈>	**Tb**	**159**		ug/L			169186	185684	1	Standard
⌊	**Pb**	**208**	**50.279**	ug/L	0.957	1	224	4467825	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 16:44:37
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23729	26575	3	Standard
⌈>	**Sc**	**45**		ug/L			509000	541589	1	Standard
|	**Cr**	**52**	**0.006**	ug/L	0.013	204	8828	9483	2	Standard
⌊	**Cr**	**53**	**-0.005**	ug/L	0.004	84	74	70	11	Standard
⌈>	**Ge**	**72**		ug/L			29303	32305	1	KED
|	**Ni**	**60**	**0.002**	ug/L	0.001	42	5	8	13	KED
|	**Ni**	**62**	**-0.001**	ug/L	0.013	2070	1	1	173	KED
|	**Cu**	**63**	**0.001**	ug/L	0.001	105	34	41	9	KED
|	**Cu**	**65**	**-0.005**	ug/L	0.001	17	19	11	16	KED
|	**Zn**	**66**	**0.005**	ug/L	0.012	245	23	28	24	KED
|	**Zn**	**67**	**0.023**	ug/L	0.035	153	5	8	35	KED
⌊	**As**	**75**	**0.004**	ug/L	0.006	144	3	4	37	KED
	Y	**89**		ug/L			48310	50243	2	Standard
	Kr	**83**		ug/L			47	43	16	Standard
⌈>	**In-1**	**115**		ug/L			6273	6862	1	KED
|	**Cd**	**111**	**0.003**	ug/L	0.002	70	2	3	17	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.003	174	4	3	50	KED
⌈>	**In**	**115**		ug/L			463649	462636	4	Standard
|	**Ag**	**107**	**0.002**	ug/L	0.001	43	35	67	20	Standard
|	**Ba**	**135**	**0.000**	ug/L	0.001	237	24	26	15	Standard
⌊	**Ba**	**137**	**-0.000**	ug/L	0.001	187	33	29	26	Standard
⌈>	**Tb**	**159**		ug/L			169186	175175	2	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	67	224	267	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CRL1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 16:49:18
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23729	29745	3	Standard
⌈>	**Sc**	**45**		ug/L			509000	544043	0	Standard
|	**Cr**	**52**	**0.523**	ug/L	0.009	1	8828	16764	1	Standard
⌊	**Cr**	**53**	**0.501**	ug/L	0.008	1	74	901	2	Standard
⌈>	**Ge**	**72**		ug/L			29303	32168	0	KED
|	**Ni**	**60**	**0.493**	ug/L	0.024	4	5	767	4	KED
|	**Ni**	**62**	**0.476**	ug/L	0.072	15	1	120	14	KED
|	**Cu**	**63**	**0.708**	ug/L	0.010	1	34	3101	2	KED
|	**Cu**	**65**	**0.727**	ug/L	0.032	4	19	1635	3	KED
|	**Zn**	**66**	**6.250**	ug/L	0.152	2	23	3349	2	KED
|	**Zn**	**67**	**6.111**	ug/L	0.086	1	5	535	0	KED
⌊	**As**	**75**	**0.213**	ug/L	0.006	2	3	58	3	KED
	Y	**89**		ug/L			48310	50496	2	Standard
	Kr	**83**		ug/L			47	45	12	Standard
⌈>	**In-1**	**115**		ug/L			6273	6541	2	KED
|	**Cd**	**111**	**0.113**	ug/L	0.021	18	2	29	16	KED
⌊	**Cd**	**114**	**0.097**	ug/L	0.023	23	4	64	22	KED
⌈>	**In**	**115**		ug/L			463649	478093	1	Standard
|	**Ag**	**107**	**0.202**	ug/L	0.006	2	35	3206	1	Standard
|	**Ba**	**135**	**0.482**	ug/L	0.013	2	24	2696	3	Standard
⌊	**Ba**	**137**	**0.483**	ug/L	0.017	3	33	4821	3	Standard
⌈>	**Tb**	**159**		ug/L			169186	178239	1	Standard
⌊	**Pb**	**208**	**0.107**	ug/L	0.004	4	224	9331	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IFA1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 16:56:08
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23729	82148	4	Standard
>	**Sc**	**45**		ug/L			509000	540030	1	Standard
	Cr	**52**	**0.661**	ug/L	0.017	2	8828	18570	2	Standard
	Cr	**53**	**1.741**	ug/L	0.086	4	74	2916	6	Standard
>	**Ge**	**72**		ug/L			29303	28977	0	KED
	Ni	**60**	**0.108**	ug/L	0.017	15	5	154	13	KED
	Ni	**62**	**0.119**	ug/L	0.014	11	1	28	11	KED
	Cu	**63**	**0.039**	ug/L	0.002	5	34	186	5	KED
	Cu	**65**	**0.033**	ug/L	0.012	37	19	84	28	KED
	Zn	**66**	**0.312**	ug/L	0.053	17	23	172	13	KED
	Zn	**67**	**0.269**	ug/L	0.085	31	5	26	25	KED
	As	**75**	**0.026**	ug/L	0.012	45	3	9	31	KED
	Y	**89**		ug/L			48310	49648	3	Standard
	Kr	**83**		ug/L			47	65	18	Standard
>	**In-1**	**115**		ug/L			6273	5999	0	KED
	Cd	**111**	**0.043**	ug/L	0.020	45	2	11	38	KED
	Cd	**114**	**0.027**	ug/L	0.012	42	4	19	34	KED
>	**In**	**115**		ug/L			463649	441167	0	Standard
	Ag	**107**	**0.005**	ug/L	0.000	7	35	104	5	Standard
	Ba	**135**	**0.113**	ug/L	0.007	5	24	599	5	Standard
	Ba	**137**	**0.114**	ug/L	0.005	4	33	1070	4	Standard
>	**Tb**	**159**		ug/L			169186	167906	0	Standard
	Pb	**208**	**0.027**	ug/L	0.000	0	224	2394	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IFB1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 17:00:36
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23729	80778	1	Standard
⌈>	**Sc**	**45**		ug/L			509000	530617	1	Standard
|	**Cr**	**52**	**20.186**	ug/L	0.671	3	8828	285340	4	Standard
⌊	**Cr**	**53**	**21.276**	ug/L	0.553	2	74	34155	4	Standard
⌈>	**Ge**	**72**		ug/L			29303	27650	1	KED
|	**Ni**	**60**	**20.512**	ug/L	0.872	4	5	27258	3	KED
|	**Ni**	**62**	**20.858**	ug/L	0.487	2	1	4443	1	KED
|	**Cu**	**63**	**20.580**	ug/L	0.468	2	34	76522	1	KED
|	**Cu**	**65**	**20.103**	ug/L	0.651	3	19	38370	2	KED
|	**Zn**	**66**	**19.662**	ug/L	0.585	2	23	9009	2	KED
|	**Zn**	**67**	**17.951**	ug/L	1.720	9	5	1340	8	KED
⌊	**As**	**75**	**19.651**	ug/L	0.451	2	3	4360	1	KED
	Y	**89**		ug/L			48310	48740	2	Standard
	Kr	**83**		ug/L			47	74	13	Standard
⌈>	**In-1**	**115**		ug/L			6273	6028	0	KED
|	**Cd**	**111**	**18.519**	ug/L	0.593	3	2	4049	2	KED
⌊	**Cd**	**114**	**18.365**	ug/L	0.516	2	4	10330	2	KED
⌈>	**In**	**115**		ug/L			463649	447152	1	Standard
|	**Ag**	**107**	**18.002**	ug/L	0.130	0	35	264803	2	Standard
|	**Ba**	**135**	**0.109**	ug/L	0.010	9	24	587	6	Standard
⌊	**Ba**	**137**	**0.104**	ug/L	0.002	1	33	994	1	Standard
⌈>	**Tb**	**159**		ug/L			169186	168627	2	Standard
⌊	**Pb**	**208**	**0.018**	ug/L	0.001	2	224	1705	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-HCV1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 17:06:47
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23729	26329	2	Standard
⌈>	**Sc**	**45**		ug/L			509000	556001	2	Standard
|	**Cr**	**52**	**198.368**	ug/L	1.458	0	8828	2851709	2	Standard
⌊	**Cr**	**53**	**195.087**	ug/L	0.307	0	74	327408	2	Standard
⌈>	**Ge**	**72**		ug/L			29303	29227	1	KED
|	**Ni**	**60**	**191.945**	ug/L	3.999	2	5	269634	1	KED
|	**Ni**	**62**	**186.640**	ug/L	4.629	2	1	42024	3	KED
|	**Cu**	**63**	**187.668**	ug/L	2.643	1	34	737510	2	KED
|	**Cu**	**65**	**185.711**	ug/L	3.770	2	19	374570	1	KED
|	**Zn**	**66**	**189.266**	ug/L	0.834	0	23	91483	1	KED
|	**Zn**	**67**	**186.660**	ug/L	4.772	2	5	14685	1	KED
⌊	**As**	**75**	**193.838**	ug/L	1.289	0	3	45439	0	KED
	Y	**89**		ug/L			48310	49992	1	Standard
	Kr	**83**		ug/L			47	83	11	Standard
⌈>	**In-1**	**115**		ug/L			6273	5371	18	KED
|	**Cd**	**111**	**219.502**	ug/L	43.976	20	2	41729	4	KED
⌊	**Cd**	**114**	**220.074**	ug/L	39.817	18	4	107921	4	KED
⌈>	**In**	**115**		ug/L			463649	435715	1	Standard
|	**Ag**	**107**	**193.623**	ug/L	0.562	0	35	2774950	2	Standard
|	**Ba**	**135**	**193.128**	ug/L	4.604	2	24	974609	1	Standard
⌊	**Ba**	**137**	**193.380**	ug/L	2.785	1	33	1745084	0	Standard
⌈>	**Tb**	**159**		ug/L			169186	171188	2	Standard
⌊	**Pb**	**208**	**200.008**	ug/L	5.919	2	224	16378774	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-HCV2
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 17:11:16
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23729	29606	4	Standard
⌈>	**Sc**	**45**		ug/L			509000	552654	1	Standard
|	**Cr**	**52**	**305.580**	ug/L	3.631	1	8828	4362199	2	Standard
⌊	**Cr**	**53**	**294.803**	ug/L	0.531	0	74	491755	1	Standard
⌈>	**Ge**	**72**		ug/L			29303	28899	0	KED
|	**Ni**	**60**	**290.897**	ug/L	5.116	1	5	404100	2	KED
|	**Ni**	**62**	**288.363**	ug/L	1.622	0	1	64187	0	KED
|	**Cu**	**63**	**287.043**	ug/L	2.289	0	34	1115281	0	KED
|	**Cu**	**65**	**287.453**	ug/L	2.535	0	19	573363	1	KED
|	**Zn**	**66**	**285.291**	ug/L	2.722	0	23	136335	0	KED
|	**Zn**	**67**	**287.574**	ug/L	3.024	1	5	22370	1	KED
⌊	**As**	**75**	**305.011**	ug/L	1.315	0	3	70699	0	KED
	Y	**89**		ug/L			48310	49758	1	Standard
	Kr	**83**		ug/L			47	116	11	Standard
⌈>	**In-1**	**115**		ug/L			6273	6204	3	KED
|	**Cd**	**111**	**292.818**	ug/L	9.764	3	2	65819	0	KED
⌊	**Cd**	**114**	**294.321**	ug/L	10.877	3	4	170207	1	KED
⌈>	**In**	**115**		ug/L			463649	405906	0	Standard
|	**Ag**	**107**	**310.853**	ug/L	5.576	1	35	4149787	1	Standard
|	**Ba**	**135**	**294.858**	ug/L	8.523	2	24	1386297	2	Standard
⌊	**Ba**	**137**	**299.321**	ug/L	3.477	1	33	2516816	1	Standard
⌈>	**Tb**	**159**		ug/L			169186	154666	1	Standard
⌊	**Pb**	**208**	**316.508**	ug/L	5.627	1	224	23425103	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL2
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 17:18:27
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23729	28126	2	Standard
⌈>	**Sc**	**45**		ug/L			509000	570158	2	Standard
|	**Cr**	**52**	**0.013**	ug/L	0.019	142	8828	10078	2	Standard
⌊	**Cr**	**53**	**0.006**	ug/L	0.004	67	74	93	8	Standard
⌈>	**Ge**	**72**		ug/L			29303	34258	1	KED
|	**Ni**	**60**	**0.006**	ug/L	0.003	41	5	15	27	KED
|	**Ni**	**62**	**0.004**	ug/L	0.015	410	1	3	124	KED
|	**Cu**	**63**	**0.003**	ug/L	0.003	95	34	54	23	KED
|	**Cu**	**65**	**0.003**	ug/L	0.001	51	19	29	9	KED
|	**Zn**	**66**	**0.019**	ug/L	0.018	97	23	38	26	KED
|	**Zn**	**67**	**0.031**	ug/L	0.055	177	5	9	52	KED
⌊	**As**	**75**	**0.013**	ug/L	0.005	36	3	7	17	KED
	Y	**89**		ug/L			48310	52547	0	Standard
	Kr	**83**		ug/L			47	52	20	Standard
⌈>	**In-1**	**115**		ug/L			6273	7246	0	KED
|	**Cd**	**111**	**-0.000**	ug/L	0.008	8315	2	2	78	KED
⌊	**Cd**	**114**	**-0.000**	ug/L	0.003	1197	4	4	43	KED
⌈>	**In**	**115**		ug/L			463649	497647	2	Standard
|	**Ag**	**107**	**0.008**	ug/L	0.002	18	35	175	12	Standard
|	**Ba**	**135**	**0.002**	ug/L	0.001	54	24	40	19	Standard
⌊	**Ba**	**137**	**0.004**	ug/L	0.002	44	33	80	23	Standard
⌈>	**Tb**	**159**		ug/L			169186	187495	1	Standard
⌊	**Pb**	**208**	**0.002**	ug/L	0.000	19	224	437	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV2
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 17:24:49
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23729	28216	2	Standard
⌈>	**Sc**	**45**		ug/L			509000	614310	2	Standard
|	**Cr**	**52**	**49.614**	ug/L	0.154	0	8828	796164	2	Standard
⌊	**Cr**	**53**	**49.306**	ug/L	0.655	1	74	91479	1	Standard
⌈>	**Ge**	**72**		ug/L			29303	33882	0	KED
|	**Ni**	**60**	**48.761**	ug/L	0.591	1	5	79418	1	KED
|	**Ni**	**62**	**49.065**	ug/L	1.020	2	1	12807	2	KED
|	**Cu**	**63**	**50.335**	ug/L	0.792	1	34	229335	1	KED
|	**Cu**	**65**	**49.788**	ug/L	0.248	0	19	116447	0	KED
|	**Zn**	**66**	**49.118**	ug/L	1.011	2	23	27541	1	KED
|	**Zn**	**67**	**51.803**	ug/L	0.793	1	5	4730	2	KED
⌊	**As**	**75**	**50.107**	ug/L	0.465	0	3	13619	0	KED
	Y	**89**		ug/L			48310	55027	0	Standard
	Kr	**83**		ug/L			47	46	15	Standard
⌈>	**In-1**	**115**		ug/L			6273	7119	3	KED
|	**Cd**	**111**	**50.184**	ug/L	1.227	2	2	12949	0	KED
⌊	**Cd**	**114**	**50.175**	ug/L	0.566	1	4	33318	2	KED
⌈>	**In**	**115**		ug/L			463649	504029	0	Standard
|	**Ag**	**107**	**48.797**	ug/L	0.760	1	35	808976	1	Standard
|	**Ba**	**135**	**49.515**	ug/L	0.138	0	24	289131	0	Standard
⌊	**Ba**	**137**	**49.043**	ug/L	0.770	1	33	512033	0	Standard
⌈>	**Tb**	**159**		ug/L			169186	194827	2	Standard
⌊	**Pb**	**208**	**50.847**	ug/L	1.120	2	224	4739539	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB2
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 17:32:02
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23729	27340	2	Standard
⌈>	**Sc**	**45**		ug/L			509000	580003	1	Standard
|	**Cr**	**52**	**0.023**	ug/L	0.039	169	8828	10405	7	Standard
⌊	**Cr**	**53**	**0.028**	ug/L	0.037	134	74	133	50	Standard
⌈>	**Ge**	**72**		ug/L			29303	34295	1	KED
|	**Ni**	**60**	**0.001**	ug/L	0.003	301	5	7	66	KED
|	**Ni**	**62**	**-0.004**	ug/L	0.008	221	1	1	173	KED
|	**Cu**	**63**	**0.000**	ug/L	0.002	646	34	41	15	KED
|	**Cu**	**65**	**-0.000**	ug/L	0.005	8359	19	22	46	KED
|	**Zn**	**66**	**0.009**	ug/L	0.009	100	23	32	15	KED
|	**Zn**	**67**	**-0.004**	ug/L	0.023	606	5	6	34	KED
⌊	**As**	**75**	**0.008**	ug/L	0.012	144	3	5	54	KED
	Y	**89**		ug/L			48310	53554	1	Standard
	Kr	**83**		ug/L			47	59	14	Standard
⌈>	**In-1**	**115**		ug/L			6273	7121	2	KED
|	**Cd**	**111**	**-0.001**	ug/L	0.002	159	2	2	24	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.001	145	4	4	24	KED
⌈>	**In**	**115**		ug/L			463649	495495	2	Standard
|	**Ag**	**107**	**0.030**	ug/L	0.033	110	35	527	103	Standard
|	**Ba**	**135**	**0.024**	ug/L	0.030	120	24	169	102	Standard
⌊	**Ba**	**137**	**0.026**	ug/L	0.031	123	33	303	108	Standard
⌈>	**Tb**	**159**		ug/L			169186	184923	3	Standard
⌊	**Pb**	**208**	**0.030**	ug/L	0.029	98	224	2932	93	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 17:37:21
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				26311	4	Standard
⎡>	**Sc**	**45**		ug/L				566891	1	Standard
⎢	**Cr**	**52**		ug/L				10103	1	Standard
⎣	**Cr**	**53**		ug/L				90	11	Standard
⎡>	**Ge**	**72**		ug/L				32698	0	KED
⎢	**Ni**	**60**		ug/L				3	50	KED
⎢	**Ni**	**62**		ug/L				3	34	KED
⎢	**Cu**	**63**		ug/L				24	19	KED
⎢	**Cu**	**65**		ug/L				17	11	KED
⎢	**Zn**	**66**		ug/L				20	48	KED
⎢	**Zn**	**67**		ug/L				3	132	KED
⎣	**As**	**75**		ug/L				3	45	KED
	Y	**89**		ug/L				53020	2	Standard
	Kr	**83**		ug/L				39	12	Standard
⎡>	**In-1**	**115**		ug/L				7060	1	KED
⎢	**Cd**	**111**		ug/L				2	89	KED
⎣	**Cd**	**114**		ug/L				3	68	KED
⎡>	**In**	**115**		ug/L				494263	2	Standard
⎢	**Ag**	**107**		ug/L				53	2	Standard
⎢	**Ba**	**135**		ug/L				15	33	Standard
⎣	**Ba**	**137**		ug/L				16	52	Standard
⎡>	**Tb**	**159**		ug/L				184968	0	Standard
⎣	**Pb**	**208**		ug/L				252	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV3
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 17:41:49
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26311	27086	4	Standard
⌈>	**Sc**	**45**		ug/L			566891	602734	1	Standard
|	**Cr**	**52**	**50.087**	ug/L	0.634	1	10103	788886	3	Standard
⌊	**Cr**	**53**	**49.352**	ug/L	0.393	0	90	89874	2	Standard
⌈>	**Ge**	**72**		ug/L			32698	34111	1	KED
|	**Ni**	**60**	**48.892**	ug/L	0.532	1	3	80169	1	KED
|	**Ni**	**62**	**49.253**	ug/L	0.220	0	3	12944	1	KED
|	**Cu**	**63**	**49.622**	ug/L	1.349	2	24	227559	1	KED
|	**Cu**	**65**	**48.368**	ug/L	0.349	0	17	113892	1	KED
|	**Zn**	**66**	**50.735**	ug/L	0.721	1	20	28634	1	KED
|	**Zn**	**67**	**50.136**	ug/L	0.936	1	3	4607	3	KED
⌊	**As**	**75**	**49.751**	ug/L	0.619	1	3	13613	0	KED
	Y	**89**		ug/L			53020	55757	1	Standard
	Kr	**83**		ug/L			39	41	29	Standard
⌈>	**In-1**	**115**		ug/L			7060	7062	1	KED
|	**Cd**	**111**	**50.589**	ug/L	1.752	3	2	12950	2	KED
⌊	**Cd**	**114**	**50.362**	ug/L	0.801	1	3	33178	2	KED
⌈>	**In**	**115**		ug/L			494263	496605	2	Standard
|	**Ag**	**107**	**49.227**	ug/L	0.708	1	53	803963	0	Standard
|	**Ba**	**135**	**50.459**	ug/L	2.381	4	15	290080	2	Standard
⌊	**Ba**	**137**	**50.527**	ug/L	1.528	3	16	519526	0	Standard
⌈>	**Tb**	**159**		ug/L			184968	193060	1	Standard
⌊	**Pb**	**208**	**50.413**	ug/L	1.135	2	252	4657369	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB3
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 17:49:02
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26311	26387	1	Standard
⌈>	**Sc**	**45**		ug/L			566891	577127	1	Standard
|	**Cr**	**52**	**-0.020**	ug/L	0.010	47	10103	9985	2	Standard
⌊	**Cr**	**53**	**-0.008**	ug/L	0.004	53	90	78	9	Standard
⌈>	**Ge**	**72**		ug/L			32698	34100	1	KED
|	**Ni**	**60**	**-0.002**	ug/L	0.001	33	3	0	173	KED
|	**Ni**	**62**	**-0.005**	ug/L	0.007	131	3	1	100	KED
|	**Cu**	**63**	**0.000**	ug/L	0.001	191	24	26	12	KED
|	**Cu**	**65**	**-0.001**	ug/L	0.001	121	17	15	21	KED
|	**Zn**	**66**	**0.001**	ug/L	0.003	512	20	22	9	KED
|	**Zn**	**67**	**-0.023**	ug/L	0.020	89	3	1	100	KED
⌊	**As**	**75**	**0.000**	ug/L	0.005	4102	3	3	37	KED
	Y	**89**		ug/L			53020	51769	1	Standard
	Kr	**83**		ug/L			39	35	17	Standard
⌈>	**In-1**	**115**		ug/L			7060	7354	2	KED
|	**Cd**	**111**	**0.007**	ug/L	0.014	201	2	4	87	KED
⌊	**Cd**	**114**	**0.027**	ug/L	0.026	94	3	22	82	KED
⌈>	**In**	**115**		ug/L			494263	493687	2	Standard
|	**Ag**	**107**	**0.006**	ug/L	0.006	98	53	153	65	Standard
|	**Ba**	**135**	**0.003**	ug/L	0.007	220	15	33	118	Standard
⌊	**Ba**	**137**	**0.004**	ug/L	0.006	151	16	60	111	Standard
⌈>	**Tb**	**159**		ug/L			184968	186545	0	Standard
⌊	**Pb**	**208**	**0.004**	ug/L	0.006	143	252	643	86	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0687-BLK2
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 17:54:17
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26311	37670	3	Standard
⎡>	**Sc**	**45**		ug/L			566891	603363	1	Standard
⎢	**Cr**	**52**	**-0.001**	ug/L	0.027	4639	10103	10740	2	Standard
⎣	**Cr**	**53**	**0.001**	ug/L	0.013	1768	90	97	22	Standard
⎡>	**Ge**	**72**		ug/L			32698	33573	2	KED
⎢	**Ni**	**60**	**0.004**	ug/L	0.004	101	3	10	66	KED
⎢	**Ni**	**62**	**-0.003**	ug/L	0.011	368	3	2	114	KED
⎢	**Cu**	**63**	**0.070**	ug/L	0.006	8	24	340	8	KED
⎢	**Cu**	**65**	**0.065**	ug/L	0.006	9	17	166	7	KED
⎢	**Zn**	**66**	**0.172**	ug/L	0.045	25	20	116	21	KED
⎢	**Zn**	**67**	**0.168**	ug/L	0.041	24	3	19	17	KED
⎣	**As**	**75**	**-0.003**	ug/L	0.006	226	3	2	60	KED
	Y	**89**		ug/L			53020	54713	1	Standard
	Kr	**83**		ug/L			39	42	18	Standard
⎡>	**In-1**	**115**		ug/L			7060	7281	1	KED
⎢	**Cd**	**111**	**0.005**	ug/L	0.002	48	2	3	15	KED
⎣	**Cd**	**114**	**-0.001**	ug/L	0.004	367	3	2	121	KED
⎡>	**In**	**115**		ug/L			494263	517690	1	Standard
⎢	**Ag**	**107**	**-0.000**	ug/L	0.000	105	53	50	14	Standard
⎢	**Ba**	**135**	**0.005**	ug/L	0.000	6	15	45	2	Standard
⎣	**Ba**	**137**	**0.008**	ug/L	0.001	16	16	98	12	Standard
⎡>	**Tb**	**159**		ug/L			184968	194843	1	Standard
⎣	**Pb**	**208**	**0.008**	ug/L	0.001	9	252	1056	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0687-BS2
Sample Dil Factor: 20
DEL
Comments:
Sample Date/Time: Wednesday, May 10, 2023 17:58:46
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			26311	33195	2	Standard
>	Sc	45		ug/L			566891	555862	11	Standard
	Cr	52	27.319	ug/L	2.314	8	10103	398623	3	Standard
	Cr	53	27.123	ug/L	2.036	7	90	45316	4	Standard
>	Ge	72		ug/L			32698	34536	1	KED
	Ni	60	26.277	ug/L	0.423	1	3	43618	0	KED
	Ni	62	25.531	ug/L	0.733	2	3	6793	1	KED
	Cu	63	26.428	ug/L	0.996	3	24	122696	2	KED
	Cu	65	26.366	ug/L	0.643	2	17	62849	1	KED
	Zn	66	81.431	ug/L	3.435	4	20	46502	2	KED
	Zn	67	77.856	ug/L	1.691	2	3	7239	2	KED
	As	75	24.595	ug/L	0.132	0	3	6815	0	KED
	Y	89		ug/L			53020	50937	11	Standard
	Kr	83		ug/L			39	43	2	Standard
>	In-1	115		ug/L			7060	7171	0	KED
	Cd	111	25.205	ug/L	0.178	0	2	6555	0	KED
	Cd	114	25.527	ug/L	0.381	1	3	17079	1	KED
>	In	115		ug/L			494263	475075	13	Standard
	Ag	107	26.777	ug/L	2.851	10	53	414464	4	Standard
	Ba	135	26.576	ug/L	2.759	10	15	144886	4	Standard
	Ba	137	26.205	ug/L	2.206	8	16	255882	5	Standard
>	Tb	159		ug/L			184968	178000	9	Standard
	Pb	208	27.358	ug/L	1.891	6	252	2320134	3	Standard

ICP-MS Quantitative Analysis - Summary Report

BLD

Sample ID: ~~BLE~~0687-BS2

Sample Dil Factor: 20

Comments:

Sample Date/Time: Wednesday, May 10, 2023 18:05:25

Number of Replicates: 3

Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth

Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun

Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac

Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			26311	33167	3	Standard
>	Sc	45		ug/L			566891	617917	1	Standard
	Cr	52	26.566	ug/L	0.336	1	10103	434021	0	Standard
	Cr	53	25.839	ug/L	0.203	0	90	48285	2	Standard
>	Ge	72		ug/L			32698	35114	0	KED
	Ni	60	26.149	ug/L	0.318	1	3	44138	1	KED
	Ni	62	26.557	ug/L	0.236	0	3	7185	1	KED
	Cu	63	26.719	ug/L	0.111	0	24	126165	0	KED
	Cu	65	26.523	ug/L	0.868	3	17	64298	3	KED
	Zn	66	81.101	ug/L	0.657	0	20	47108	0	KED
	Zn	67	79.743	ug/L	2.633	3	3	7539	3	KED
	As	75	25.028	ug/L	0.475	1	3	7052	1	KED
	Y	89		ug/L			53020	54777	2	Standard
	Kr	83		ug/L			39	56	25	Standard
>	In-1	115		ug/L			7060	7190	2	KED
	Cd	111	25.907	ug/L	1.333	5	2	6749	2	KED
	Cd	114	25.906	ug/L	0.432	1	3	17376	2	KED
>	In	115		ug/L			494263	529323	0	Standard
	Ag	107	25.138	ug/L	0.889	3	53	437657	3	Standard
	Ba	135	25.018	ug/L	0.513	2	15	153411	1	Standard
	Ba	137	25.193	ug/L	0.818	3	16	276243	3	Standard
>	Tb	159		ug/L			184968	195659	1	Standard
	Pb	208	26.664	ug/L	0.249	0	252	2496863	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0298-BLK1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 18:11:10
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			26311	38063	2	Standard
>	Sc	45		ug/L			566891	597496	2	Standard
	Cr	52	-0.003	ug/L	0.011	446	10103	10607	1	Standard
	Cr	53	0.015	ug/L	0.002	15	90	121	5	Standard
>	Ge	72		ug/L			32698	34566	1	KED
	Ni	60	0.005	ug/L	0.001	13	3	12	9	KED
	Ni	62	0.002	ug/L	0.007	416	3	3	50	KED
	Cu	63	0.028	ug/L	0.004	15	24	154	12	KED
	Cu	65	0.030	ug/L	0.004	12	17	90	10	KED
	Zn	66	0.367	ug/L	0.046	12	20	231	10	KED
	Zn	67	0.380	ug/L	0.094	24	3	39	22	KED
	As	75	-0.002	ug/L	0.003	112	3	2	26	KED
	Y	89		ug/L			53020	53718	2	Standard
	Kr	83		ug/L			39	38	21	Standard
>	In-1	115		ug/L			7060	7412	2	KED
	Cd	111	-0.002	ug/L	0.004	224	2	1	50	KED
	Cd	114	-0.001	ug/L	0.002	306	3	2	38	KED
>	In	115		ug/L			494263	508864	4	Standard
	Ag	107	0.001	ug/L	0.001	103	53	76	30	Standard
	Ba	135	0.044	ug/L	0.001	3	15	276	7	Standard
	Ba	137	0.041	ug/L	0.002	5	16	448	2	Standard
>	Tb	159		ug/L			184968	189447	1	Standard
	Pb	208	0.003	ug/L	0.001	15	252	551	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0298-BS1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 18:15:38
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			26311	41219	2	Standard
>	Sc	45		ug/L			566891	595237	2	Standard
	Cr	52	26.019	ug/L	0.637	2	10103	409724	2	Standard
	Cr	53	25.701	ug/L	0.388	1	90	46253	0	Standard
>	Ge	72		ug/L			32698	33724	2	KED
	Ni	60	26.223	ug/L	0.188	0	3	42515	3	KED
	Ni	62	25.826	ug/L	0.457	1	3	6712	3	KED
	Cu	63	27.023	ug/L	0.029	0	24	122552	2	KED
	Cu	65	26.364	ug/L	0.662	2	17	61404	4	KED
	Zn	66	84.748	ug/L	0.880	1	20	47269	1	KED
	Zn	67	82.421	ug/L	2.653	3	3	7480	1	KED
	As	75	25.246	ug/L	0.327	1	3	6830	1	KED
	Y	89		ug/L			53020	55215	3	Standard
	Kr	83		ug/L			39	61	32	Standard
>	In-1	115		ug/L			7060	7117	3	KED
	Cd	111	26.003	ug/L	0.830	3	2	6706	1	KED
	Cd	114	25.869	ug/L	1.271	4	3	17159	2	KED
>	In	115		ug/L			494263	501527	1	Standard
	Ag	107	25.380	ug/L	0.349	1	53	418726	1	Standard
	Ba	135	25.446	ug/L	0.398	1	15	147835	0	Standard
	Ba	137	25.147	ug/L	0.112	0	16	261267	1	Standard
>	Tb	159		ug/L			184968	192205	0	Standard
	Pb	208	25.898	ug/L	0.210	0	252	2382531	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0077-MS2
Sample Dil Factor: 2
Comments:
Sample Date/Time: Wednesday, May 10, 2023 18:21:17
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			26311	40376	1	Standard
>	Sc	45		ug/L			566891	644293	2	Standard
	Cr	52	13.646	ug/L	0.334	2	10103	237982	1	Standard
	Cr	53	13.650	ug/L	0.413	3	90	26636	3	Standard
>	Ge	72		ug/L			32698	35599	1	KED
	Ni	60	14.278	ug/L	0.608	4	3	24427	3	KED
	Ni	62	14.855	ug/L	0.778	5	3	4078	6	KED
	Cu	63	17.856	ug/L	0.146	0	24	85486	1	KED
	Cu	65	17.890	ug/L	0.181	1	17	43971	1	KED
	Zn	66	44.470	ug/L	0.482	1	20	26195	0	KED
	Zn	67	44.109	ug/L	0.983	2	3	4229	1	KED
	As	75	14.390	ug/L	0.229	1	3	4111	0	KED
	Y	89		ug/L			53020	82049	1	Standard
	Kr	83		ug/L			39	44	35	Standard
>	In-1	115		ug/L			7060	7585	1	KED
	Cd	111	13.396	ug/L	0.268	2	2	3686	3	KED
	Cd	114	12.937	ug/L	0.159	1	3	9156	1	KED
>	In	115		ug/L			494263	520828	1	Standard
	Ag	107	13.168	ug/L	0.834	6	53	225463	4	Standard
	Ba	135	18.146	ug/L	0.439	2	15	109466	0	Standard
	Ba	137	18.016	ug/L	0.372	2	16	194342	1	Standard
>	Tb	159		ug/L			184968	198562	2	Standard
	Pb	208	13.622	ug/L	0.430	3	252	1294148	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0297-01
Sample Dil Factor: 100
Comments:
Sample Date/Time: Wednesday, May 10, 2023 18:27:27
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26311	43660	3	Standard
⎡>	**Sc**	**45**		ug/L			566891	632000	0	Standard
⎢	**Cr**	**52**	**2.036**	ug/L	0.025	1	10103	44431	0	Standard
⎣	**Cr**	**53**	**2.030**	ug/L	0.034	1	90	3972	1	Standard
⎡>	**Ge**	**72**		ug/L			32698	35701	1	KED
⎢	**Ni**	**60**	**2.054**	ug/L	0.066	3	3	3527	2	KED
⎢	**Ni**	**62**	**2.148**	ug/L	0.146	6	3	593	4	KED
⎢	**Cu**	**63**	**3.160**	ug/L	0.088	2	24	15197	4	KED
⎢	**Cu**	**65**	**3.168**	ug/L	0.115	3	17	7823	3	KED
⎢	**Zn**	**66**	**13.507**	ug/L	0.376	2	20	7993	1	KED
⎢	**Zn**	**67**	**13.075**	ug/L	0.153	1	3	1260	2	KED
⎣	**As**	**75**	**0.552**	ug/L	0.034	6	3	161	7	KED
	Y	**89**		ug/L			53020	79010	1	Standard
	Kr	**83**		ug/L			39	41	17	Standard
⎡>	**In-1**	**115**		ug/L			7060	7693	2	KED
⎢	**Cd**	**111**	**0.040**	ug/L	0.009	23	2	13	17	KED
⎣	**Cd**	**114**	**0.048**	ug/L	0.010	21	3	37	18	KED
⎡>	**In**	**115**		ug/L			494263	523935	1	Standard
⎢	**Ag**	**107**	**0.024**	ug/L	0.002	7	53	473	6	Standard
⎢	**Ba**	**135**	**6.728**	ug/L	0.172	2	15	40843	2	Standard
⎣	**Ba**	**137**	**6.775**	ug/L	0.223	3	16	73515	1	Standard
⎡>	**Tb**	**159**		ug/L			184968	202392	1	Standard
⎣	**Pb**	**208**	**12.755**	ug/L	0.082	0	252	1235605	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0728-DUP2
Sample Dil Factor: 100
Comments:
Sample Date/Time: Wednesday, May 10, 2023 18:32:26
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			26311	44324	2	Standard
>	Sc	45		ug/L			566891	616246	1	Standard
	Cr	52	3.859	ug/L	0.104	2	10103	72247	0	Standard
	Cr	53	3.763	ug/L	0.033	0	90	7097	1	Standard
>	Ge	72		ug/L			32698	35016	1	KED
	Ni	60	3.217	ug/L	0.049	1	3	5417	1	KED
	Ni	62	3.072	ug/L	0.041	1	3	831	0	KED
	Cu	63	5.765	ug/L	0.101	1	24	27162	1	KED
	Cu	65	5.632	ug/L	0.198	3	17	13623	1	KED
	Zn	66	25.143	ug/L	0.668	2	20	14575	1	KED
	Zn	67	24.719	ug/L	0.461	1	3	2332	0	KED
	As	75	0.890	ug/L	0.054	6	3	253	5	KED
	Y	89		ug/L			53020	86822	2	Standard
	Kr	83		ug/L			39	38	5	Standard
>	In-1	115		ug/L			7060	7818	1	KED
	Cd	111	0.092	ug/L	0.014	15	2	28	15	KED
	Cd	114	0.078	ug/L	0.020	25	3	60	24	KED
>	In	115		ug/L			494263	505786	3	Standard
	Ag	107	0.019	ug/L	0.001	7	53	378	3	Standard
	Ba	135	12.943	ug/L	0.471	3	15	75798	1	Standard
	Ba	137	12.936	ug/L	0.581	4	16	135424	1	Standard
>	Tb	159		ug/L			184968	196469	1	Standard
	Pb	208	25.694	ug/L	0.107	0	252	2416204	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0728-MS2
Sample Dil Factor: 100
Comments:
Sample Date/Time: Wednesday, May 10, 2023 18:36:54

DEL

Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26311	43287	3	Standard
⌈>	**Sc**	**45**		ug/L			566891	591647	10	Standard
|	**Cr**	**52**	**9.452**	ug/L	0.588	6	10103	154071	5	Standard
⌊	**Cr**	**53**	**9.291**	ug/L	0.725	7	90	16595	2	Standard
⌈>	**Ge**	**72**		ug/L			32698	35179	0	KED
|	**Ni**	**60**	**8.374**	ug/L	0.172	2	3	14163	1	KED
|	**Ni**	**62**	**8.570**	ug/L	0.258	3	3	2325	3	KED
|	**Cu**	**63**	**10.707**	ug/L	0.135	1	24	50663	1	KED
|	**Cu**	**65**	**10.695**	ug/L	0.305	2	17	25987	3	KED
|	**Zn**	**66**	**41.005**	ug/L	0.450	1	20	23871	0	KED
|	**Zn**	**67**	**43.282**	ug/L	1.509	3	3	4102	4	KED
⌊	**As**	**75**	**5.955**	ug/L	0.067	1	3	1683	0	KED
	Y	**89**		ug/L			53020	82678	9	Standard
	Kr	**83**		ug/L			39	48	26	Standard
⌈>	**In-1**	**115**		ug/L			7060	7566	2	KED
|	**Cd**	**111**	**5.358**	ug/L	0.095	1	2	1472	2	KED
⌊	**Cd**	**114**	**5.303**	ug/L	0.159	2	3	3745	3	KED
⌈>	**In**	**115**		ug/L			494263	487343	10	Standard
|	**Ag**	**107**	**4.919**	ug/L	0.394	8	53	78463	4	Standard
|	**Ba**	**135**	**79.346**	ug/L	6.937	8	15	445104	2	Standard
⌊	**Ba**	**137**	**79.361**	ug/L	5.203	6	16	797381	4	Standard
⌈>	**Tb**	**159**		ug/L			184968	188193	8	Standard
⌊	**Pb**	**208**	**31.645**	ug/L	1.866	5	252	2841204	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL3
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 18:41:23
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26311	28394	4	Standard
⌈>	**Sc**	**45**		ug/L			566891	585732	2	Standard
|	**Cr**	**52**	**-0.022**	ug/L	0.003	13	10103	10113	1	Standard
⌊	**Cr**	**53**	**-0.017**	ug/L	0.007	42	90	63	22	Standard
⌈>	**Ge**	**72**		ug/L			32698	33367	0	KED
|	**Ni**	**60**	**0.004**	ug/L	0.002	58	3	9	34	KED
|	**Ni**	**62**	**0.007**	ug/L	0.028	390	3	5	141	KED
|	**Cu**	**63**	**0.007**	ug/L	0.006	84	24	54	46	KED
|	**Cu**	**65**	**0.001**	ug/L	0.006	513	17	20	71	KED
|	**Zn**	**66**	**0.082**	ug/L	0.030	36	20	66	24	KED
|	**Zn**	**67**	**0.049**	ug/L	0.088	181	3	8	96	KED
⌊	**As**	**75**	**-0.002**	ug/L	0.004	182	3	2	36	KED
	Y	**89**		ug/L			53020	53017	1	Standard
	Kr	**83**		ug/L			39	46	26	Standard
⌈>	**In-1**	**115**		ug/L			7060	7227	2	KED
|	**Cd**	**111**	**-0.004**	ug/L	0.006	150	2	1	114	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.000	5	3	1	4	KED
⌈>	**In**	**115**		ug/L			494263	495365	1	Standard
|	**Ag**	**107**	**-0.001**	ug/L	0.001	81	53	38	35	Standard
|	**Ba**	**135**	**0.002**	ug/L	0.002	109	15	27	49	Standard
⌊	**Ba**	**137**	**0.005**	ug/L	0.001	12	16	66	8	Standard
⌈>	**Tb**	**159**		ug/L			184968	186655	1	Standard
⌊	**Pb**	**208**	**0.004**	ug/L	0.000	3	252	641	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV4
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 18:45:51
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26311	28727	4	Standard
⌈>	**Sc**	**45**		ug/L			566891	609014	3	Standard
|	**Cr**	**52**	**50.570**	ug/L	0.762	1	10103	804391	2	Standard
⌊	**Cr**	**53**	**49.489**	ug/L	1.195	2	90	91015	1	Standard
⌈>	**Ge**	**72**		ug/L			32698	34132	2	KED
|	**Ni**	**60**	**50.592**	ug/L	1.395	2	3	82971	0	KED
|	**Ni**	**62**	**50.224**	ug/L	3.628	7	3	13194	5	KED
|	**Cu**	**63**	**50.541**	ug/L	1.378	2	24	231886	1	KED
|	**Cu**	**65**	**49.221**	ug/L	0.899	1	17	115932	0	KED
|	**Zn**	**66**	**51.252**	ug/L	1.016	1	20	28936	0	KED
|	**Zn**	**67**	**52.016**	ug/L	2.220	4	3	4779	2	KED
⌊	**As**	**75**	**50.828**	ug/L	0.713	1	3	13915	1	KED
	Y	**89**		ug/L			53020	56257	1	Standard
	Kr	**83**		ug/L			39	47	10	Standard
⌈>	**In-1**	**115**		ug/L			7060	7295	0	KED
|	**Cd**	**111**	**50.371**	ug/L	0.324	0	2	13324	0	KED
⌊	**Cd**	**114**	**51.434**	ug/L	0.839	1	3	35003	1	KED
⌈>	**In**	**115**		ug/L			494263	503811	3	Standard
|	**Ag**	**107**	**49.821**	ug/L	1.108	2	53	825169	1	Standard
|	**Ba**	**135**	**50.659**	ug/L	2.522	4	15	295308	1	Standard
⌊	**Ba**	**137**	**49.729**	ug/L	1.869	3	16	518499	0	Standard
⌈>	**Tb**	**159**		ug/L			184968	191232	2	Standard
⌊	**Pb**	**208**	**51.742**	ug/L	0.772	1	252	4734666	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB4
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 18:53:04
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26311	27100	6	Standard
⌈>	**Sc**	**45**		ug/L			566891	604751	2	Standard
|	**Cr**	**52**	**-0.032**	ug/L	0.003	8	10103	10287	2	Standard
⌊	**Cr**	**53**	**-0.011**	ug/L	0.003	28	90	76	7	Standard
⌈>	**Ge**	**72**		ug/L			32698	35074	2	KED
|	**Ni**	**60**	**-0.000**	ug/L	0.000	30	3	3	0	KED
|	**Ni**	**62**	**-0.008**	ug/L	0.008	107	3	1	173	KED
|	**Cu**	**63**	**0.006**	ug/L	0.002	32	24	52	14	KED
|	**Cu**	**65**	**0.002**	ug/L	0.002	76	17	24	19	KED
|	**Zn**	**66**	**-0.002**	ug/L	0.009	530	20	21	25	KED
|	**Zn**	**67**	**0.004**	ug/L	0.011	296	3	4	24	KED
⌊	**As**	**75**	**-0.001**	ug/L	0.002	282	3	3	17	KED
	Y	**89**		ug/L			53020	52811	0	Standard
	Kr	**83**		ug/L			39	43	26	Standard
⌈>	**In-1**	**115**		ug/L			7060	7273	3	KED
|	**Cd**	**111**	**0.001**	ug/L	0.005	577	2	2	57	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.006	392	3	4	91	KED
⌈>	**In**	**115**		ug/L			494263	514317	0	Standard
|	**Ag**	**107**	**0.001**	ug/L	0.001	153	53	64	20	Standard
|	**Ba**	**135**	**-0.000**	ug/L	0.001	153	15	13	28	Standard
⌊	**Ba**	**137**	**0.001**	ug/L	0.001	65	16	26	22	Standard
⌈>	**Tb**	**159**		ug/L			184968	191895	0	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	16	252	332	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0301-BLK1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 18:57:58
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			26311	36132	2	Standard
⌈>	Sc	45		ug/L			566891	602137	1	Standard
|	Cr	52	0.039	ug/L	0.002	4	10103	11333	1	Standard
⌊	Cr	53	0.041	ug/L	0.004	11	90	170	5	Standard
⌈>	Ge	72		ug/L			32698	35755	1	KED
|	Ni	60	0.009	ug/L	0.006	72	3	19	55	KED
|	Ni	62	-0.006	ug/L	0.012	205	3	1	173	KED
|	Cu	63	0.054	ug/L	0.004	7	24	286	5	KED
|	Cu	65	0.049	ug/L	0.005	11	17	139	8	KED
|	Zn	66	0.501	ug/L	0.016	3	20	318	1	KED
|	Zn	67	0.537	ug/L	0.123	22	3	55	21	KED
⌊	As	75	-0.004	ug/L	0.005	131	3	2	60	KED
	Y	89		ug/L			53020	53484	1	Standard
	Kr	83		ug/L			39	42	9	Standard
⌈>	In-1	115		ug/L			7060	7514	4	KED
|	Cd	111	-0.003	ug/L	0.004	162	2	1	69	KED
⌊	Cd	114	0.001	ug/L	0.007	593	3	4	120	KED
⌈>	In	115		ug/L			494263	515717	1	Standard
|	Ag	107	-0.001	ug/L	0.001	165	53	41	59	Standard
|	Ba	135	0.032	ug/L	0.003	7	15	208	8	Standard
⌊	Ba	137	0.034	ug/L	0.005	15	16	380	13	Standard
⌈>	Tb	159		ug/L			184968	188567	0	Standard
⌊	Pb	208	0.013	ug/L	0.001	6	252	1422	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0301-BS1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 19:02:26
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			26311	39347	2	Standard
⌈>	Sc	45		ug/L			566891	602736	1	Standard
|	Cr	52	25.728	ug/L	0.632	2	10103	410293	1	Standard
⌊	Cr	53	25.069	ug/L	0.544	2	90	45686	0	Standard
⌈>	Ge	72		ug/L			32698	35760	0	KED
|	Ni	60	24.931	ug/L	0.329	1	3	42859	2	KED
|	Ni	62	25.470	ug/L	0.338	1	3	7019	2	KED
|	Cu	63	26.115	ug/L	0.703	2	24	125575	2	KED
|	Cu	65	25.523	ug/L	0.337	1	17	63008	1	KED
|	Zn	66	81.836	ug/L	1.535	1	20	48404	0	KED
|	Zn	67	77.435	ug/L	1.924	2	3	7455	1	KED
⌊	As	75	24.221	ug/L	0.419	1	3	6951	2	KED
	Y	89		ug/L			53020	55246	3	Standard
	Kr	83		ug/L			39	38	17	Standard
⌈>	In-1	115		ug/L			7060	7223	4	KED
|	Cd	111	25.786	ug/L	0.757	2	2	6750	1	KED
⌊	Cd	114	25.761	ug/L	0.217	0	3	17358	3	KED
⌈>	In	115		ug/L			494263	502123	3	Standard
|	Ag	107	25.046	ug/L	0.929	3	53	413450	2	Standard
|	Ba	135	25.125	ug/L	0.881	3	15	146049	0	Standard
⌊	Ba	137	24.829	ug/L	0.821	3	16	258081	0	Standard
⌈>	Tb	159		ug/L			184968	192140	0	Standard
⌊	Pb	208	26.135	ug/L	0.277	1	252	2403344	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0143-BLK1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 19:07:19
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			26311	33143	1	Standard
>	Sc	45		ug/L			566891	616779	2	Standard
	Cr	52	-0.028	ug/L	0.019	69	10103	10547	0	Standard
	Cr	53	-0.006	ug/L	0.003	40	90	86	4	Standard
>	Ge	72		ug/L			32698	34454	0	KED
	Ni	60	0.008	ug/L	0.004	46	3	16	35	KED
	Ni	62	-0.003	ug/L	0.008	272	3	2	86	KED
	Cu	63	0.012	ug/L	0.003	29	24	79	20	KED
	Cu	65	0.008	ug/L	0.007	86	17	36	43	KED
	Zn	66	0.171	ug/L	0.019	11	20	119	8	KED
	Zn	67	0.203	ug/L	0.083	40	3	22	33	KED
	As	75	-0.003	ug/L	0.003	91	3	2	28	KED
	Y	89		ug/L			53020	56743	3	Standard
	Kr	83		ug/L			39	53	27	Standard
>	In-1	115		ug/L			7060	7418	0	KED
	Cd	111	-0.004	ug/L	0.002	51	2	1	43	KED
	Cd	114	-0.001	ug/L	0.004	676	3	2	100	KED
>	In	115		ug/L			494263	513562	2	Standard
	Ag	107	0.001	ug/L	0.001	216	53	66	31	Standard
	Ba	135	0.034	ug/L	0.003	9	15	215	6	Standard
	Ba	137	0.034	ug/L	0.001	1	16	377	3	Standard
>	Tb	159		ug/L			184968	193668	0	Standard
	Pb	208	0.007	ug/L	0.000	3	252	869	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0143-BS1
Sample Dil Factor: 20
DEL
Comments:
Sample Date/Time: Wednesday, May 10, 2023 19:11:48
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26311	31606	2	Standard
>	**Sc**	**45**		ug/L			566891	583965	11	Standard
	Cr	**52**	**27.552**	ug/L	2.680	9	10103	422084	3	Standard
	Cr	**53**	**27.385**	ug/L	2.342	8	90	48042	3	Standard
>	**Ge**	**72**		ug/L			32698	33602	2	KED
	Ni	**60**	**26.623**	ug/L	0.960	3	3	42975	0	KED
	Ni	**62**	**26.995**	ug/L	0.969	3	3	6985	1	KED
	Cu	**63**	**27.153**	ug/L	0.763	2	24	122630	0	KED
	Cu	**65**	**26.767**	ug/L	0.624	2	17	62066	0	KED
	Zn	**66**	**82.288**	ug/L	2.082	2	20	45718	0	KED
	Zn	**67**	**78.775**	ug/L	1.406	1	3	7124	0	KED
	As	**75**	**25.075**	ug/L	0.969	3	3	6756	1	KED
	Y	**89**		ug/L			53020	52675	13	Standard
	Kr	**83**		ug/L			39	52	36	Standard
>	**In-1**	**115**		ug/L			7060	7562	3	KED
	Cd	**111**	**24.984**	ug/L	0.283	1	2	6850	1	KED
	Cd	**114**	**24.822**	ug/L	0.916	3	3	17500	0	KED
>	**In**	**115**		ug/L			494263	489071	10	Standard
	Ag	**107**	**26.745**	ug/L	1.759	6	53	428268	4	Standard
	Ba	**135**	**27.408**	ug/L	2.670	9	15	154205	1	Standard
	Ba	**137**	**27.186**	ug/L	2.617	9	16	273527	2	Standard
>	**Tb**	**159**		ug/L			184968	184312	10	Standard
	Pb	**208**	**28.250**	ug/L	2.382	8	252	2477210	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0143-BS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 19:19:15
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			26311	30379	2	Standard
>	Sc	45		ug/L			566891	608076	1	Standard
	Cr	52	26.503	ug/L	0.345	1	10103	426187	2	Standard
	Cr	53	26.098	ug/L	0.180	0	90	47989	1	Standard
>	Ge	72		ug/L			32698	35900	1	KED
	Ni	60	25.767	ug/L	0.436	1	3	44460	0	KED
	Ni	62	26.190	ug/L	0.532	2	3	7243	0	KED
	Cu	63	27.050	ug/L	0.206	0	24	130578	1	KED
	Cu	65	26.509	ug/L	0.178	0	17	65696	1	KED
	Zn	66	81.108	ug/L	0.527	0	20	48170	2	KED
	Zn	67	77.729	ug/L	0.535	0	3	7513	1	KED
	As	75	24.804	ug/L	0.297	1	3	7144	1	KED
	Y	89		ug/L			53020	55160	3	Standard
	Kr	83		ug/L			39	68	12	Standard
>	In-1	115		ug/L			7060	7460	2	KED
	Cd	111	25.512	ug/L	0.374	1	2	6904	3	KED
	Cd	114	24.977	ug/L	0.596	2	3	17384	2	KED
>	In	115		ug/L			494263	513378	4	Standard
	Ag	107	26.260	ug/L	0.377	1	53	443361	3	Standard
	Ba	135	26.060	ug/L	1.712	6	15	154721	2	Standard
	Ba	137	25.388	ug/L	1.063	4	16	269741	2	Standard
>	Tb	159		ug/L			184968	194271	3	Standard
	Pb	208	26.682	ug/L	0.951	3	252	2478789	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0728-MS2
Sample Dil Factor: 100
Comments:
Sample Date/Time: Wednesday, May 10, 2023 19:23:43
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			26311	32572	2	Standard
>	Sc	45		ug/L			566891	634781	1	Standard
	Cr	52	8.923	ug/L	0.181	2	10103	157301	3	Standard
	Cr	53	8.784	ug/L	0.118	1	90	16931	2	Standard
>	Ge	72		ug/L			32698	35227	2	KED
	Ni	60	7.934	ug/L	0.171	2	3	13433	0	KED
	Ni	62	8.105	ug/L	0.290	3	3	2202	3	KED
	Cu	63	10.173	ug/L	0.317	3	24	48187	1	KED
	Cu	65	10.080	ug/L	0.557	5	17	24508	3	KED
	Zn	66	38.423	ug/L	0.769	2	20	22395	0	KED
	Zn	67	40.690	ug/L	1.664	4	3	3860	3	KED
	As	75	5.570	ug/L	0.174	3	3	1576	1	KED
	Y	89		ug/L			53020	85393	1	Standard
	Kr	83		ug/L			39	44	27	Standard
>	In-1	115		ug/L			7060	7444	0	KED
	Cd	111	5.163	ug/L	0.104	2	2	1395	1	KED
	Cd	114	5.160	ug/L	0.024	0	3	3586	0	KED
>	In	115		ug/L			494263	516165	3	Standard
	Ag	107	4.702	ug/L	0.128	2	53	79838	0	Standard
	Ba	135	76.355	ug/L	3.843	5	15	456151	2	Standard
	Ba	137	75.875	ug/L	3.822	5	16	810591	3	Standard
>	Tb	159		ug/L			184968	202938	1	Standard
	Pb	208	30.231	ug/L	0.583	1	252	2935613	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0348-01
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 19:28:33
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26311	25448	5	Standard
⌈>	**Sc**	**45**		ug/L			566891	529281	3	Standard
|	**Cr**	**52**	**0.440**	ug/L	0.008	1	10103	15429	3	Standard
⌊	**Cr**	**53**	**1.137**	ug/L	0.039	3	90	1900	3	Standard
⌈>	**Ge**	**72**		ug/L			32698	27739	0	KED
|	**Ni**	**60**	**1.356**	ug/L	0.067	4	3	1811	5	KED
|	**Ni**	**62**	**1.314**	ug/L	0.157	11	3	283	10	KED
|	**Cu**	**63**	**1.848**	ug/L	0.018	0	24	6912	0	KED
|	**Cu**	**65**	**1.781**	ug/L	0.011	0	17	3424	0	KED
|	**Zn**	**66**	**16.919**	ug/L	0.501	2	20	7776	2	KED
|	**Zn**	**67**	**15.634**	ug/L	0.215	1	3	1170	0	KED
⌊	**As**	**75**	**1.258**	ug/L	0.034	2	3	282	3	KED
	Y	**89**		ug/L			53020	48610	0	Standard
	Kr	**83**		ug/L			39	43	19	Standard
⌈>	**In-1**	**115**		ug/L			7060	5801	2	KED
|	**Cd**	**111**	**0.005**	ug/L	0.004	92	2	2	33	KED
⌊	**Cd**	**114**	**0.010**	ug/L	0.009	90	3	7	62	KED
⌈>	**In**	**115**		ug/L			494263	443792	0	Standard
|	**Ag**	**107**	**0.001**	ug/L	0.001	64	53	62	14	Standard
|	**Ba**	**135**	**0.370**	ug/L	0.025	6	15	1916	6	Standard
⌊	**Ba**	**137**	**0.371**	ug/L	0.010	2	16	3427	3	Standard
⌈>	**Tb**	**159**		ug/L			184968	173759	1	Standard
⌊	**Pb**	**208**	**0.116**	ug/L	0.001	1	252	9874	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL4
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 19:33:27
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26311	24223	2	Standard
⌈>	**Sc**	**45**		ug/L			566891	575088	3	Standard
|	**Cr**	**52**	**-0.007**	ug/L	0.012	171	10103	10143	3	Standard
⌊	**Cr**	**53**	**0.005**	ug/L	0.011	218	90	100	18	Standard
⌈>	**Ge**	**72**		ug/L			32698	30306	11	KED
|	**Ni**	**60**	**0.002**	ug/L	0.002	106	3	6	56	KED
|	**Ni**	**62**	**-0.008**	ug/L	0.004	58	3	1	86	KED
|	**Cu**	**63**	**0.004**	ug/L	0.003	73	24	36	26	KED
|	**Cu**	**65**	**0.003**	ug/L	0.003	113	17	21	26	KED
|	**Zn**	**66**	**0.070**	ug/L	0.009	13	20	54	19	KED
|	**Zn**	**67**	**0.035**	ug/L	0.010	28	3	6	17	KED
⌊	**As**	**75**	**-0.004**	ug/L	0.002	52	3	1	25	KED
	Y	**89**		ug/L			53020	52486	2	Standard
	Kr	**83**		ug/L			39	40	9	Standard
⌈>	**In-1**	**115**		ug/L			7060	6912	1	KED
|	**Cd**	**111**	**-0.006**	ug/L	0.002	35	2	0	86	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.003	164	3	1	103	KED
⌈>	**In**	**115**		ug/L			494263	502957	1	Standard
|	**Ag**	**107**	**-0.001**	ug/L	0.001	187	53	45	43	Standard
|	**Ba**	**135**	**0.001**	ug/L	0.001	180	15	19	34	Standard
⌊	**Ba**	**137**	**0.003**	ug/L	0.001	33	16	49	21	Standard
⌈>	**Tb**	**159**		ug/L			184968	186751	0	Standard
⌊	**Pb**	**208**	**0.004**	ug/L	0.000	10	252	622	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0374-03
Sample Dil Factor: 2
Comments:
Sample Date/Time: Wednesday, May 10, 2023 19:40:00
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			26311	27470	2	Standard
>	Sc	45		ug/L			566891	535366	2	Standard
	Cr	52	1.485	ug/L	0.027	1	10103	30025	1	Standard
	Cr	53	2.427	ug/L	0.053	2	90	4007	4	Standard
>	Ge	72		ug/L			32698	26716	2	KED
	Ni	60	0.991	ug/L	0.067	6	3	1276	8	KED
	Ni	62	0.904	ug/L	0.041	4	3	188	2	KED
	Cu	63	1.735	ug/L	0.003	0	24	6252	2	KED
	Cu	65	1.743	ug/L	0.055	3	17	3228	5	KED
	Zn	66	1.685	ug/L	0.077	4	20	761	6	KED
	Zn	67	2.401	ug/L	0.167	6	3	175	8	KED
	As	75	0.727	ug/L	0.067	9	3	158	8	KED
	Y	89		ug/L			53020	49651	1	Standard
	Kr	83		ug/L			39	38	15	Standard
>	In-1	115		ug/L			7060	5871	1	KED
	Cd	111	0.008	ug/L	0.007	86	2	3	41	KED
	Cd	114	0.009	ug/L	0.009	96	3	7	63	KED
>	In	115		ug/L			494263	457235	0	Standard
	Ag	107	-0.000	ug/L	0.001	375	53	46	22	Standard
	Ba	135	19.449	ug/L	0.234	1	15	103026	0	Standard
	Ba	137	19.409	ug/L	0.370	1	16	183823	1	Standard
>	Tb	159		ug/L			184968	175956	0	Standard
	Pb	208	0.110	ug/L	0.002	1	252	9480	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL5
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 19:44:29
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26311	24303	5	Standard
⌈>	**Sc**	**45**		ug/L			566891	576791	3	Standard
|	**Cr**	**52**	**0.036**	ug/L	0.027	76	10103	10807	3	Standard
⌊	**Cr**	**53**	**0.024**	ug/L	0.004	15	90	133	5	Standard
⌈>	**Ge**	**72**		ug/L			32698	33136	1	KED
|	**Ni**	**60**	**0.001**	ug/L	0.002	203	3	5	66	KED
|	**Ni**	**62**	**-0.000**	ug/L	0.009	6668	3	3	69	KED
|	**Cu**	**63**	**-0.001**	ug/L	0.001	138	24	20	24	KED
|	**Cu**	**65**	**-0.001**	ug/L	0.003	284	17	15	37	KED
|	**Zn**	**66**	**0.053**	ug/L	0.010	18	20	50	9	KED
|	**Zn**	**67**	**0.042**	ug/L	0.022	52	3	7	25	KED
⌊	**As**	**75**	**-0.004**	ug/L	0.006	153	3	2	68	KED
	Y	**89**		ug/L			53020	52970	2	Standard
	Kr	**83**		ug/L			39	34	8	Standard
⌈>	**In-1**	**115**		ug/L			7060	6842	2	KED
|	**Cd**	**111**	**-0.005**	ug/L	0.007	143	2	0	173	KED
⌊	**Cd**	**114**	**-0.003**	ug/L	0.002	57	3	1	90	KED
⌈>	**In**	**115**		ug/L			494263	506336	1	Standard
|	**Ag**	**107**	**-0.001**	ug/L	0.000	21	53	30	18	Standard
|	**Ba**	**135**	**0.002**	ug/L	0.001	49	15	26	21	Standard
⌊	**Ba**	**137**	**0.003**	ug/L	0.001	35	16	48	23	Standard
⌈>	**Tb**	**159**		ug/L			184968	187814	2	Standard
⌊	**Pb**	**208**	**0.003**	ug/L	0.000	5	252	556	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV5
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 19:48:57
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26311	24269	4	Standard
⌈>	**Sc**	**45**		ug/L			566891	590553	1	Standard
|	**Cr**	**52**	**51.066**	ug/L	0.308	0	10103	787666	1	Standard
⌊	**Cr**	**53**	**49.455**	ug/L	0.522	1	90	88228	1	Standard
⌈>	**Ge**	**72**		ug/L			32698	33288	2	KED
|	**Ni**	**60**	**49.520**	ug/L	1.070	2	3	79212	1	KED
|	**Ni**	**62**	**50.158**	ug/L	1.195	2	3	12858	0	KED
|	**Cu**	**63**	**50.304**	ug/L	2.007	3	24	225023	1	KED
|	**Cu**	**65**	**50.399**	ug/L	1.418	2	17	115756	1	KED
|	**Zn**	**66**	**51.639**	ug/L	1.107	2	20	28433	1	KED
|	**Zn**	**67**	**50.767**	ug/L	0.397	0	3	4551	1	KED
⌊	**As**	**75**	**49.807**	ug/L	1.104	2	3	13296	0	KED
	Y	**89**		ug/L			53020	54784	0	Standard
	Kr	**83**		ug/L			39	47	4	Standard
⌈>	**In-1**	**115**		ug/L			7060	6811	3	KED
|	**Cd**	**111**	**51.475**	ug/L	1.428	2	2	12706	0	KED
⌊	**Cd**	**114**	**51.093**	ug/L	1.398	2	3	32450	1	KED
⌈>	**In**	**115**		ug/L			494263	508399	2	Standard
|	**Ag**	**107**	**48.081**	ug/L	1.462	3	53	803607	0	Standard
|	**Ba**	**135**	**48.411**	ug/L	0.773	1	15	285047	1	Standard
⌊	**Ba**	**137**	**48.840**	ug/L	0.572	1	16	514273	2	Standard
⌈>	**Tb**	**159**		ug/L			184968	194510	1	Standard
⌊	**Pb**	**208**	**52.796**	ug/L	1.254	2	252	4913375	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB5
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 19:56:10
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26311	23676	7	Standard
⌈>	**Sc**	**45**		ug/L			566891	595773	0	Standard
|	**Cr**	**52**	**-0.041**	ug/L	0.018	43	10103	9984	3	Standard
⌊	**Cr**	**53**	**-0.018**	ug/L	0.005	27	90	63	14	Standard
⌈>	**Ge**	**72**		ug/L			32698	32613	1	KED
|	**Ni**	**60**	**0.000**	ug/L	0.001	345	3	4	49	KED
|	**Ni**	**62**	**0.000**	ug/L	0.005	5394	3	3	34	KED
|	**Cu**	**63**	**0.002**	ug/L	0.003	144	24	33	39	KED
|	**Cu**	**65**	**-0.000**	ug/L	0.002	574	17	16	24	KED
|	**Zn**	**66**	**-0.015**	ug/L	0.002	15	20	12	8	KED
|	**Zn**	**67**	**0.015**	ug/L	0.045	306	3	5	78	KED
⌊	**As**	**75**	**-0.001**	ug/L	0.004	298	3	2	33	KED
	Y	**89**		ug/L			53020	54754	2	Standard
	Kr	**83**		ug/L			39	36	18	Standard
⌈>	**In-1**	**115**		ug/L			7060	7291	3	KED
|	**Cd**	**111**	**0.001**	ug/L	0.009	818	2	2	94	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.001	91	3	4	26	KED
⌈>	**In**	**115**		ug/L			494263	530983	2	Standard
|	**Ag**	**107**	**0.001**	ug/L	0.001	69	53	74	16	Standard
|	**Ba**	**135**	**-0.001**	ug/L	0.001	164	15	12	45	Standard
⌊	**Ba**	**137**	**0.001**	ug/L	0.001	103	16	31	44	Standard
⌈>	**Tb**	**159**		ug/L			184968	189359	0	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	20	252	351	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 20:21:08
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			26311	30742	2	Standard
⌈>	**Sc**	**45**		ug/L			566891	624857	1	Standard
|	**Cr**	**52**	**0.084**	ug/L	0.034	40	10103	12489	5	Standard
⌊	**Cr**	**53**	**0.132**	ug/L	0.039	29	90	350	22	Standard
⌈>	**Ge**	**72**		ug/L			32698	35356	3	KED
|	**Ni**	**60**	**0.546**	ug/L	0.226	41	3	922	37	KED
|	**Ni**	**62**	**0.552**	ug/L	0.142	25	3	153	22	KED
|	**Cu**	**63**	**0.023**	ug/L	0.003	11	24	133	9	KED
|	**Cu**	**65**	**0.022**	ug/L	0.011	48	17	72	36	KED
|	**Zn**	**66**	**0.601**	ug/L	0.108	17	20	372	12	KED
|	**Zn**	**67**	**0.587**	ug/L	0.108	18	3	59	13	KED
⌊	**As**	**75**	**-0.003**	ug/L	0.003	102	3	2	26	KED
	Y	**89**		ug/L			53020	55653	0	Standard
	Kr	**83**		ug/L			39	54	22	Standard
⌈>	**In-1**	**115**		ug/L			7060	7908	3	KED
|	**Cd**	**111**	**-0.003**	ug/L	0.007	242	2	1	124	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.004	386	3	4	68	KED
⌈>	**In**	**115**		ug/L			494263	523603	3	Standard
|	**Ag**	**107**	**0.000**	ug/L	0.001	196	53	64	19	Standard
|	**Ba**	**135**	**0.121**	ug/L	0.027	22	15	751	23	Standard
⌊	**Ba**	**137**	**0.118**	ug/L	0.013	11	16	1298	13	Standard
⌈>	**Tb**	**159**		ug/L			184968	191054	1	Standard
⌊	**Pb**	**208**	**0.005**	ug/L	0.000	7	252	724	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 20:26:00
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				27881	1	Standard
⌈>	**Sc**	**45**		ug/L				600447	1	Standard
|	**Cr**	**52**		ug/L				10860	1	Standard
⌊	**Cr**	**53**		ug/L				113	5	Standard
⌈>	**Ge**	**72**		ug/L				35776	2	KED
|	**Ni**	**60**		ug/L				145	17	KED
|	**Ni**	**62**		ug/L				28	29	KED
|	**Cu**	**63**		ug/L				53	12	KED
|	**Cu**	**65**		ug/L				29	13	KED
|	**Zn**	**66**		ug/L				87	12	KED
|	**Zn**	**67**		ug/L				19	11	KED
⌊	**As**	**75**		ug/L				2	44	KED
	Y	**89**		ug/L				55660	0	Standard
	Kr	**83**		ug/L				44	13	Standard
⌈>	**In-1**	**115**		ug/L				7587	4	KED
|	**Cd**	**111**		ug/L				4	13	KED
⌊	**Cd**	**114**		ug/L				1	106	KED
⌈>	**In**	**115**		ug/L				519229	3	Standard
⌊	**Ag**	**107**		ug/L				33	13	Standard
⌈>	**Tb**	**159**		ug/L				190542	1	Standard
⌊	**Pb**	**208**		ug/L				524	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV6
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 20:30:26
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File:

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27881	29050	1	Standard
⌈>	**Sc**	**45**		ug/L			600447	626146	0	Standard
|	**Cr**	**52**	**49.167**	ug/L	0.927	1	10860	804779	2	Standard
⌊	**Cr**	**53**	**49.187**	ug/L	0.914	1	113	93067	2	Standard
⌈>	**Ge**	**72**		ug/L			35776	35306	0	KED
|	**Ni**	**60**	**48.708**	ug/L	1.092	2	145	82805	2	KED
|	**Ni**	**62**	**48.519**	ug/L	1.369	2	28	13221	2	KED
|	**Cu**	**63**	**49.493**	ug/L	0.730	1	53	234973	1	KED
|	**Cu**	**65**	**49.388**	ug/L	0.330	0	29	120371	1	KED
|	**Zn**	**66**	**50.574**	ug/L	1.281	2	87	29610	2	KED
|	**Zn**	**67**	**50.034**	ug/L	0.468	0	19	4773	1	KED
⌊	**As**	**75**	**49.621**	ug/L	0.526	1	2	14052	0	KED
	Y	**89**		ug/L			55660	56069	3	Standard
	Kr	**83**		ug/L			44	62	6	Standard
⌈>	**In-1**	**115**		ug/L			7587	7367	0	KED
|	**Cd**	**111**	**50.587**	ug/L	0.561	1	4	13516	1	KED
⌊	**Cd**	**114**	**50.851**	ug/L	0.642	1	1	34948	1	KED
⌈>	**In**	**115**		ug/L			519229	515799	3	Standard
⌊	**Ag**	**107**	**47.565**	ug/L	1.435	3	33	806664	2	Standard
⌈>	**Tb**	**159**		ug/L			190542	197846	0	Standard
⌊	**Pb**	**208**	**49.588**	ug/L	0.492	0	524	4695653	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB6
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 20:37:35
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27881	30403	3	Standard
⌈>	**Sc**	**45**		ug/L			600447	612688	0	Standard
|	**Cr**	**52**	**-0.028**	ug/L	0.012	42	10860	10643	1	Standard
⌊	**Cr**	**53**	**-0.019**	ug/L	0.007	33	113	80	16	Standard
⌈>	**Ge**	**72**		ug/L			35776	35407	2	KED
|	**Ni**	**60**	**-0.008**	ug/L	0.005	61	145	130	8	KED
|	**Ni**	**62**	**-0.052**	ug/L	0.015	29	28	13	28	KED
|	**Cu**	**63**	**0.002**	ug/L	0.001	24	53	64	6	KED
|	**Cu**	**65**	**-0.001**	ug/L	0.004	251	29	25	35	KED
|	**Zn**	**66**	**-0.024**	ug/L	0.007	30	87	72	4	KED
|	**Zn**	**67**	**-0.091**	ug/L	0.043	47	19	10	36	KED
⌊	**As**	**75**	**0.010**	ug/L	0.003	36	2	4	22	KED
	Y	**89**		ug/L			55660	55266	2	Standard
	Kr	**83**		ug/L			44	45	19	Standard
⌈>	**In-1**	**115**		ug/L			7587	7638	0	KED
|	**Cd**	**111**	**-0.008**	ug/L	0.000	0	4	1		KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.001	80	1	3	34	KED
⌈>	**In**	**115**		ug/L			519229	538099	1	Standard
⌊	**Ag**	**107**	**0.004**	ug/L	0.001	16	33	101	10	Standard
⌈>	**Tb**	**159**		ug/L			190542	193312	1	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	34	524	610	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0578-BLK1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 20:44:18
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27881	40138	4	Standard
⌈>	Sc	45		ug/L			600447	621245	1	Standard
|	Cr	52	0.003	ug/L	0.001	45	10860	11280	1	Standard
⌊	Cr	53	0.007	ug/L	0.004	47	113	131	4	Standard
⌈>	Ge	72		ug/L			35776	35226	1	KED
|	Ni	60	0.016	ug/L	0.020	127	145	170	19	KED
|	Ni	62	0.011	ug/L	0.039	354	28	31	33	KED
|	Cu	63	0.003	ug/L	0.003	102	53	67	23	KED
|	Cu	65	0.007	ug/L	0.002	30	29	46	11	KED
|	Zn	66	0.068	ug/L	0.015	22	87	125	6	KED
|	Zn	67	0.057	ug/L	0.101	177	19	24	38	KED
⌊	As	75	-0.003	ug/L	0.003	105	2	1	78	KED
	Y	89		ug/L			55660	55969	0	Standard
	Kr	83		ug/L			44	39	14	Standard
⌈>	In-1	115		ug/L			7587	7906	1	KED
|	Cd	111	-0.007	ug/L	0.008	103	4	2	98	KED
⌊	Cd	114	0.002	ug/L	0.005	193	1	3	93	KED
⌈>	In	115		ug/L			519229	537592	1	Standard
⌊	Ag	107	0.005	ug/L	0.004	76	33	119	54	Standard
⌈>	Tb	159		ug/L			190542	199925	0	Standard
⌊	Pb	208	0.006	ug/L	0.005	84	524	1100	41	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0578-BS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 20:48:43
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27881	37980	2	Standard
⌈>	Sc	45		ug/L			600447	626934	1	Standard
|	Cr	52	25.864	ug/L	0.160	0	10860	429230	1	Standard
⌊	Cr	53	25.501	ug/L	0.209	0	113	48367	2	Standard
⌈>	Ge	72		ug/L			35776	35083	0	KED
|	Ni	60	26.314	ug/L	0.807	3	145	44509	2	KED
|	Ni	62	25.633	ug/L	0.562	2	28	6954	1	KED
|	Cu	63	27.020	ug/L	0.634	2	53	127486	1	KED
|	Cu	65	27.020	ug/L	0.828	3	29	65447	2	KED
|	Zn	66	81.453	ug/L	3.084	3	87	47326	3	KED
|	Zn	67	77.935	ug/L	0.929	1	19	7377	0	KED
⌊	As	75	24.974	ug/L	0.394	1	2	7029	1	KED
	Y	89		ug/L			55660	56955	1	Standard
	Kr	83		ug/L			44	48	19	Standard
⌈>	In-1	115		ug/L			7587	7518	2	KED
|	Cd	111	25.173	ug/L	0.343	1	4	6865	2	KED
⌊	Cd	114	25.138	ug/L	0.825	3	1	17623	1	KED
⌈>	In	115		ug/L			519229	527783	1	Standard
⌊	Ag	107	25.955	ug/L	0.935	3	33	450479	2	Standard
⌈>	Tb	159		ug/L			190542	197638	2	Standard
⌊	Pb	208	26.529	ug/L	0.826	3	524	2508791	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0072-BLK1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 20:53:08
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27881	37385	3	Standard
⌈>	Sc	45		ug/L			600447	615099	2	Standard
|	Cr	52	0.015	ug/L	0.013	88	10860	11362	1	Standard
⌊	Cr	53	0.002	ug/L	0.005	210	113	120	5	Standard
⌈>	Ge	72		ug/L			35776	34993	1	KED
|	Ni	60	0.065	ug/L	0.008	12	145	250	4	KED
|	Ni	62	0.021	ug/L	0.042	200	28	33	34	KED
|	Cu	63	0.010	ug/L	0.004	39	53	97	17	KED
|	Cu	65	0.009	ug/L	0.003	34	29	51	16	KED
|	Zn	66	0.232	ug/L	0.032	13	87	219	8	KED
|	Zn	67	0.207	ug/L	0.030	14	19	38	7	KED
⌊	As	75	0.001	ug/L	0.009	1125	2	2	105	KED
	Y	89		ug/L			55660	55904	3	Standard
	Kr	83		ug/L			44	43	15	Standard
⌈>	In-1	115		ug/L			7587	7454	2	KED
|	Cd	111	-0.002	ug/L	0.002	84	4	3	15	KED
⌊	Cd	114	0.003	ug/L	0.002	75	1	3	40	KED
⌈>	In	115		ug/L			519229	537278	1	Standard
⌊	Ag	107	0.005	ug/L	0.002	53	33	116	35	Standard
⌈>	Tb	159		ug/L			190542	195405	3	Standard
⌊	Pb	208	0.006	ug/L	0.001	16	524	1060	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0072-BS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 20:57:33
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27881	36094	2	Standard
⌈>	Sc	45		ug/L			600447	572755	10	Standard
|	Cr	52	27.852	ug/L	2.315	8	10860	419085	4	Standard
⌊	Cr	53	27.110	ug/L	1.969	7	113	46728	4	Standard
⌈>	Ge	72		ug/L			35776	35198	0	KED
|	Ni	60	25.504	ug/L	0.222	0	145	43291	1	KED
|	Ni	62	25.791	ug/L	0.614	2	28	7019	1	KED
|	Cu	63	26.575	ug/L	0.425	1	53	125806	1	KED
|	Cu	65	26.358	ug/L	0.294	1	29	64056	1	KED
|	Zn	66	79.691	ug/L	1.477	1	87	46463	1	KED
|	Zn	67	76.937	ug/L	1.501	1	19	7307	2	KED
⌊	As	75	24.014	ug/L	0.245	1	2	6781	0	KED
	Y	89		ug/L			55660	53298	9	Standard
	Kr	83		ug/L			44	53	40	Standard
⌈>	In-1	115		ug/L			7587	7340	4	KED
|	Cd	111	25.290	ug/L	0.565	2	4	6730	1	KED
⌊	Cd	114	25.211	ug/L	0.729	2	1	17251	1	KED
⌈>	In	115		ug/L			519229	495969	9	Standard
⌊	Ag	107	26.638	ug/L	2.172	8	33	432404	2	Standard
⌈>	Tb	159		ug/L			190542	186305	10	Standard
⌊	Pb	208	27.713	ug/L	2.476	8	524	2455977	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0394-01
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 21:02:34
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27881	49327	2	Standard
⌈>	Sc	45		ug/L			600447	731706	2	Standard
|	Cr	52	12.124	ug/L	0.147	1	10860	241826	1	Standard
⌊	Cr	53	12.156	ug/L	0.116	0	113	26975	1	Standard
⌈>	Ge	72		ug/L			35776	34902	1	KED
|	Ni	60	10.919	ug/L	0.231	2	145	18456	0	KED
|	Ni	62	10.987	ug/L	0.493	4	28	2979	2	KED
|	Cu	63	24.875	ug/L	0.831	3	53	116737	1	KED
|	Cu	65	24.816	ug/L	0.603	2	29	59790	0	KED
|	Zn	66	53.146	ug/L	1.002	1	87	30749	0	KED
|	Zn	67	51.278	ug/L	1.131	2	19	4834	0	KED
⌊	As	75	5.436	ug/L	0.145	2	2	1523	2	KED
	Y	89		ug/L			55660	260380	0	Standard
	Kr	83		ug/L			44	76	23	Standard
⌈>	In-1	115		ug/L			7587	7321	2	KED
|	Cd	111	0.108	ug/L	0.008	7	4	32	8	KED
⌊	Cd	114	0.152	ug/L	0.016	10	1	105	10	KED
⌈>	In	115		ug/L			519229	519189	4	Standard
⌊	Ag	107	0.100	ug/L	0.001	0	33	1748	4	Standard
⌈>	Tb	159		ug/L			190542	217094	0	Standard
⌊	Pb	208	9.840	ug/L	0.276	2	524	1022869	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0687-DUP2
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 21:07:50
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27881	48948	3	Standard
>	Sc	45		ug/L			600447	717992	2	Standard
	Cr	52	12.278	ug/L	0.108	0	10860	240147	1	Standard
	Cr	53	12.202	ug/L	0.281	2	113	26574	3	Standard
>	Ge	72		ug/L			35776	34652	1	KED
	Ni	60	11.215	ug/L	0.148	1	145	18817	0	KED
	Ni	62	10.981	ug/L	0.055	0	28	2958	1	KED
	Cu	63	24.789	ug/L	0.125	0	53	115536	1	KED
	Cu	65	25.011	ug/L	0.663	2	29	59828	1	KED
	Zn	66	52.626	ug/L	0.823	1	87	30233	1	KED
	Zn	67	51.295	ug/L	1.023	1	19	4802	2	KED
	As	75	5.303	ug/L	0.187	3	2	1475	2	KED
	Y	89		ug/L			55660	264619	1	Standard
	Kr	83		ug/L			44	89	9	Standard
>	In-1	115		ug/L			7587	7338	4	KED
	Cd	111	0.127	ug/L	0.015	11	4	37	6	KED
	Cd	114	0.124	ug/L	0.007	5	1	86	9	KED
>	In	115		ug/L			519229	507795	1	Standard
	Ag	107	0.096	ug/L	0.003	3	33	1642	4	Standard
>	Tb	159		ug/L			190542	217783	1	Standard
	Pb	208	9.267	ug/L	0.055	0	524	966473	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0687-MS2
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 21:12:15
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27881	43798	4	Standard
>	Sc	45		ug/L			600447	712380	2	Standard
	Cr	52	33.848	ug/L	0.696	2	10860	634231	2	Standard
	Cr	53	33.218	ug/L	0.454	1	113	71537	1	Standard
>	Ge	72		ug/L			35776	34769	1	KED
	Ni	60	35.480	ug/L	0.262	0	145	59435	1	KED
	Ni	62	35.792	ug/L	0.375	1	28	9613	2	KED
	Cu	63	49.044	ug/L	0.181	0	53	229305	0	KED
	Cu	65	49.587	ug/L	0.401	0	29	119023	1	KED
	Zn	66	127.164	ug/L	1.063	0	87	73182	0	KED
	Zn	67	123.226	ug/L	4.628	3	19	11545	2	KED
	As	75	28.650	ug/L	0.300	1	2	7990	0	KED
	Y	89		ug/L			55660	263207	0	Standard
	Kr	83		ug/L			44	70	9	Standard
>	In-1	115		ug/L			7587	7271	0	KED
	Cd	111	24.050	ug/L	0.279	1	4	6344	0	KED
	Cd	114	24.062	ug/L	0.530	2	1	16324	2	KED
>	In	115		ug/L			519229	498952	2	Standard
	Ag	107	20.136	ug/L	0.422	2	33	330380	0	Standard
>	Tb	159		ug/L			190542	217190	0	Standard
	Pb	208	31.824	ug/L	0.401	1	524	3308209	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0687-MSD2
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 21:16:40
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27881	42886	5	Standard
>	Sc	45		ug/L			600447	713189	2	Standard
	Cr	52	32.799	ug/L	0.728	2	10860	615560	1	Standard
	Cr	53	32.872	ug/L	0.464	1	113	70870	1	Standard
>	Ge	72		ug/L			35776	34920	2	KED
	Ni	60	34.594	ug/L	0.175	0	145	58202	1	KED
	Ni	62	34.631	ug/L	1.105	3	28	9337	1	KED
	Cu	63	47.676	ug/L	1.144	2	53	223798	0	KED
	Cu	65	47.132	ug/L	2.056	4	29	113539	2	KED
	Zn	66	125.287	ug/L	2.668	2	87	72401	1	KED
	Zn	67	124.246	ug/L	1.881	1	19	11692	1	KED
	As	75	27.961	ug/L	0.434	1	2	7831	1	KED
	Y	89		ug/L			55660	247812	1	Standard
	Kr	83		ug/L			44	69	20	Standard
>	In-1	115		ug/L			7587	7305	2	KED
	Cd	111	24.552	ug/L	0.448	1	4	6504	0	KED
	Cd	114	24.586	ug/L	1.060	4	1	16749	3	KED
>	In	115		ug/L			519229	504337	3	Standard
	Ag	107	17.259	ug/L	0.157	0	33	286300	2	Standard
>	Tb	159		ug/L			190542	221250	1	Standard
	Pb	208	30.874	ug/L	0.352	1	524	3269435	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0687-PS2
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 21:21:05
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27881	48757	4	Standard
⌈>	**Sc**	**45**		ug/L			600447	729719	3	Standard
|	**Cr**	**52**	**33.107**	ug/L	0.489	1	10860	635718	2	Standard
⌊	**Cr**	**53**	**32.943**	ug/L	0.273	0	113	72672	2	Standard
⌈>	**Ge**	**72**		ug/L			35776	34959	1	KED
|	**Ni**	**60**	**36.373**	ug/L	0.157	0	145	61261	1	KED
|	**Ni**	**62**	**36.640**	ug/L	0.186	0	28	9894	1	KED
|	**Cu**	**63**	**49.754**	ug/L	0.930	1	53	233872	1	KED
|	**Cu**	**65**	**49.585**	ug/L	0.881	1	29	119664	2	KED
|	**Zn**	**66**	**132.457**	ug/L	3.739	2	87	76640	2	KED
|	**Zn**	**67**	**126.800**	ug/L	2.433	1	19	11947	1	KED
⌊	**As**	**75**	**30.260**	ug/L	0.577	1	2	8485	0	KED
	Y	**89**		ug/L			55660	274282	1	Standard
	Kr	**83**		ug/L			44	81	11	Standard
⌈>	**In-1**	**115**		ug/L			7587	7422	1	KED
|	**Cd**	**111**	**25.084**	ug/L	0.224	0	4	6753	0	KED
⌊	**Cd**	**114**	**25.290**	ug/L	0.359	1	1	17510	0	KED
⌈>	**In**	**115**		ug/L			519229	501845	2	Standard
⌊	**Ag**	**107**	**24.345**	ug/L	0.418	1	33	401777	1	Standard
⌈>	**Tb**	**159**		ug/L			190542	220281	1	Standard
⌊	**Pb**	**208**	**32.333**	ug/L	0.276	0	524	3409321	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL6
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 21:25:31
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27881	28733	3	Standard
⌈>	**Sc**	**45**		ug/L			600447	603287	2	Standard
|	**Cr**	**52**	**-0.017**	ug/L	0.014	80	10860	10646	3	Standard
⌊	**Cr**	**53**	**0.002**	ug/L	0.010	424	113	118	17	Standard
⌈>	**Ge**	**72**		ug/L			35776	35096	0	KED
|	**Ni**	**60**	**0.102**	ug/L	0.008	7	145	314	4	KED
|	**Ni**	**62**	**0.112**	ug/L	0.027	23	28	58	12	KED
|	**Cu**	**63**	**0.004**	ug/L	0.001	33	53	71	8	KED
|	**Cu**	**65**	**0.005**	ug/L	0.009	160	29	41	51	KED
|	**Zn**	**66**	**0.017**	ug/L	0.010	60	87	95	6	KED
|	**Zn**	**67**	**-0.043**	ug/L	0.035	81	19	15	21	KED
⌊	**As**	**75**	**0.000**	ug/L	0.003	2492	2	2	44	KED
	Y	**89**		ug/L			55660	53844	3	Standard
	Kr	**83**		ug/L			44	50	7	Standard
⌈>	**In-1**	**115**		ug/L			7587	7525	0	KED
|	**Cd**	**111**	**-0.003**	ug/L	0.002	62	4	3	17	KED
⌊	**Cd**	**114**	**0.004**	ug/L	0.006	149	1	4	90	KED
⌈>	**In**	**115**		ug/L			519229	512731	3	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.000	11	33	68	8	Standard
⌈>	**Tb**	**159**		ug/L			190542	193475	1	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	135	524	539	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV7
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 21:29:56
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27881	27927	5	Standard
⌈>	**Sc**	**45**		ug/L			600447	636370	1	Standard
|	**Cr**	**52**	**49.675**	ug/L	0.721	1	10860	826310	2	Standard
⌊	**Cr**	**53**	**48.401**	ug/L	0.534	1	113	93080	2	Standard
⌈>	**Ge**	**72**		ug/L			35776	34775	2	KED
|	**Ni**	**60**	**49.673**	ug/L	0.162	0	145	83169	2	KED
|	**Ni**	**62**	**50.020**	ug/L	0.731	1	28	13424	2	KED
|	**Cu**	**63**	**50.381**	ug/L	1.600	3	53	235511	1	KED
|	**Cu**	**65**	**49.220**	ug/L	1.166	2	29	118121	0	KED
|	**Zn**	**66**	**51.392**	ug/L	1.224	2	87	29629	2	KED
|	**Zn**	**67**	**52.114**	ug/L	1.313	2	19	4897	4	KED
⌊	**As**	**75**	**50.182**	ug/L	0.760	1	2	13995	0	KED
	Y	**89**		ug/L			55660	56443	3	Standard
	Kr	**83**		ug/L			44	49	15	Standard
⌈>	**In-1**	**115**		ug/L			7587	7362	1	KED
|	**Cd**	**111**	**49.881**	ug/L	1.210	2	4	13314	1	KED
⌊	**Cd**	**114**	**50.034**	ug/L	1.724	3	1	34349	1	KED
⌈>	**In**	**115**		ug/L			519229	514927	3	Standard
⌊	**Ag**	**107**	**48.588**	ug/L	2.233	4	33	822157	2	Standard
⌈>	**Tb**	**159**		ug/L			190542	200300	2	Standard
⌊	**Pb**	**208**	**50.450**	ug/L	1.358	2	524	4835024	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB7
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 21:37:06
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27881	26930	5	Standard
⌈>	**Sc**	**45**		ug/L			600447	613915	1	Standard
|	**Cr**	**52**	**-0.009**	ug/L	0.004	42	10860	10962	2	Standard
⌊	**Cr**	**53**	**0.011**	ug/L	0.007	64	113	135	7	Standard
⌈>	**Ge**	**72**		ug/L			35776	34316	3	KED
|	**Ni**	**60**	**0.071**	ug/L	0.027	37	145	257	19	KED
|	**Ni**	**62**	**0.060**	ug/L	0.053	89	28	43	33	KED
|	**Cu**	**63**	**0.023**	ug/L	0.025	111	53	158	76	KED
|	**Cu**	**65**	**0.023**	ug/L	0.027	118	29	82	79	KED
|	**Zn**	**66**	**-0.028**	ug/L	0.029	104	87	68	26	KED
|	**Zn**	**67**	**-0.033**	ug/L	0.051	155	19	15	30	KED
⌊	**As**	**75**	**0.014**	ug/L	0.024	172	2	6	112	KED
	Y	**89**		ug/L			55660	54932	0	Standard
	Kr	**83**		ug/L			44	48	18	Standard
⌈>	**In-1**	**115**		ug/L			7587	7637	1	KED
|	**Cd**	**111**	**-0.009**	ug/L	0.007	75	4	1	124	KED
⌊	**Cd**	**114**	**-0.000**	ug/L	0.003	3557	1	1	113	KED
⌈>	**In**	**115**		ug/L			519229	519681	1	Standard
⌊	**Ag**	**107**	**0.003**	ug/L	0.000	6	33	78	5	Standard
⌈>	**Tb**	**159**		ug/L			190542	193231	0	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	30	524	613	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0467-02
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 21:41:32
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27881	45032	3	Standard
>	Sc	45		ug/L			600447	742114	2	Standard
	Cr	52	15.234	ug/L	0.188	1	10860	304818	3	Standard
	Cr	53	14.955	ug/L	0.198	1	113	33634	2	Standard
>	Ge	72		ug/L			35776	34523	2	KED
	Ni	60	13.744	ug/L	0.476	3	145	22932	0	KED
	Ni	62	13.777	ug/L	0.715	5	28	3687	2	KED
	Cu	63	35.145	ug/L	1.144	3	53	163083	1	KED
	Cu	65	34.406	ug/L	1.355	3	29	81948	1	KED
	Zn	66	67.279	ug/L	2.612	3	87	38459	1	KED
	Zn	67	66.917	ug/L	3.870	5	19	6229	3	KED
	As	75	7.207	ug/L	0.238	3	2	1996	1	KED
	Y	89		ug/L			55660	305809	2	Standard
	Kr	83		ug/L			44	67	10	Standard
>	In-1	115		ug/L			7587	7350	2	KED
	Cd	111	0.179	ug/L	0.026	14	4	51	12	KED
	Cd	114	0.231	ug/L	0.005	2	1	160	4	KED
>	In	115		ug/L			519229	505016	3	Standard
	Ag	107	0.154	ug/L	0.013	8	33	2584	4	Standard
>	Tb	159		ug/L			190542	223968	1	Standard
	Pb	208	14.203	ug/L	0.190	1	524	1522706	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0467-03
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 21:45:57
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27881	42622	4	Standard
>	Sc	45		ug/L			600447	690566	8	Standard
	Cr	52	15.019	ug/L	0.756	5	10860	279010	4	Standard
	Cr	53	14.873	ug/L	0.661	4	113	31049	4	Standard
>	Ge	72		ug/L			35776	34971	0	KED
	Ni	60	12.825	ug/L	0.224	1	145	21699	1	KED
	Ni	62	13.074	ug/L	0.636	4	28	3549	5	KED
	Cu	63	30.875	ug/L	0.469	1	53	145218	1	KED
	Cu	65	31.639	ug/L	0.368	1	29	76384	0	KED
	Zn	66	60.680	ug/L	0.755	1	87	35170	1	KED
	Zn	67	58.931	ug/L	1.790	3	19	5565	3	KED
	As	75	6.862	ug/L	0.217	3	2	1927	3	KED
	Y	89		ug/L			55660	279514	1	Standard
	Kr	83		ug/L			44	93	4	Standard
>	In-1	115		ug/L			7587	7541	3	KED
	Cd	111	0.206	ug/L	0.031	15	4	60	12	KED
	Cd	114	0.210	ug/L	0.029	13	1	149	12	KED
>	In	115		ug/L			519229	467677	10	Standard
	Ag	107	0.158	ug/L	0.011	6	33	2457	6	Standard
>	Tb	159		ug/L			190542	208844	7	Standard
	Pb	208	14.122	ug/L	0.952	6	524	1406990	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0467-04
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 21:50:22
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27881	42039	1	Standard
⌈>	Sc	45		ug/L			600447	722307	1	Standard
|	Cr	52	15.403	ug/L	0.058	0	10860	299782	1	Standard
⌊	Cr	53	15.134	ug/L	0.260	1	113	33122	1	Standard
⌈>	Ge	72		ug/L			35776	34398	1	KED
|	Ni	60	13.305	ug/L	0.513	3	145	22132	2	KED
|	Ni	62	13.397	ug/L	0.866	6	28	3575	5	KED
|	Cu	63	36.367	ug/L	0.976	2	53	168193	1	KED
|	Cu	65	36.194	ug/L	1.342	3	29	85923	2	KED
|	Zn	66	67.215	ug/L	1.956	2	87	38301	1	KED
|	Zn	67	67.347	ug/L	2.218	3	19	6251	2	KED
⌊	As	75	8.338	ug/L	0.373	4	2	2301	3	KED
	Y	89		ug/L			55660	280878	1	Standard
	Kr	83		ug/L			44	83	13	Standard
⌈>	In-1	115		ug/L			7587	7122	1	KED
|	Cd	111	0.253	ug/L	0.034	13	4	69	11	KED
⌊	Cd	114	0.270	ug/L	0.039	14	1	180	15	KED
⌈>	In	115		ug/L			519229	504674	3	Standard
⌊	Ag	107	0.171	ug/L	0.006	3	33	2876	3	Standard
⌈>	Tb	159		ug/L			190542	219689	1	Standard
⌊	Pb	208	16.464	ug/L	0.545	3	524	1730980	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0467-05
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 21:54:47
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27881	42806	1	Standard
⌈>	Sc	45		ug/L			600447	716286	1	Standard
|	Cr	52	14.519	ug/L	0.159	1	10860	281010	2	Standard
⌊	Cr	53	14.343	ug/L	0.209	1	113	31134	0	Standard
⌈>	Ge	72		ug/L			35776	35309	1	KED
|	Ni	60	11.887	ug/L	0.160	1	145	20315	0	KED
|	Ni	62	12.515	ug/L	0.232	1	28	3432	3	KED
|	Cu	63	30.686	ug/L	0.194	0	53	145729	2	KED
|	Cu	65	30.856	ug/L	0.789	2	29	75198	0	KED
|	Zn	66	59.607	ug/L	0.519	0	87	34885	2	KED
|	Zn	67	59.174	ug/L	0.672	1	19	5643	3	KED
⌊	As	75	6.641	ug/L	0.158	2	2	1883	3	KED
	Y	89		ug/L			55660	284193	1	Standard
	Kr	83		ug/L			44	70	37	Standard
⌈>	In-1	115		ug/L			7587	7365	0	KED
|	Cd	111	0.162	ug/L	0.039	24	4	47	21	KED
⌊	Cd	114	0.184	ug/L	0.024	12	1	128	12	KED
⌈>	In	115		ug/L			519229	495838	1	Standard
⌊	Ag	107	0.144	ug/L	0.007	4	33	2379	5	Standard
⌈>	Tb	159		ug/L			190542	222154	1	Standard
⌊	Pb	208	13.638	ug/L	0.162	1	524	1450648	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0467-01
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 21:59:12
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27881	44599	4	Standard
⌈>	Sc	45		ug/L			600447	731713	0	Standard
|	Cr	52	14.739	ug/L	0.210	1	10860	291190	1	Standard
⌊	Cr	53	14.638	ug/L	0.276	1	113	32460	2	Standard
⌈>	Ge	72		ug/L			35776	35401	1	KED
|	Ni	60	12.912	ug/L	0.463	3	145	22105	1	KED
|	Ni	62	13.360	ug/L	0.173	1	28	3671	2	KED
|	Cu	63	30.949	ug/L	0.224	0	53	147347	1	KED
|	Cu	65	30.919	ug/L	0.887	2	29	75545	1	KED
|	Zn	66	59.526	ug/L	1.559	2	87	34920	1	KED
|	Zn	67	58.622	ug/L	1.849	3	19	5602	1	KED
⌊	As	75	6.546	ug/L	0.025	0	2	1860	2	KED
	Y	89		ug/L			55660	287110	1	Standard
	Kr	83		ug/L			44	80	8	Standard
⌈>	In-1	115		ug/L			7587	7523	1	KED
|	Cd	111	0.226	ug/L	0.023	10	4	65	8	KED
⌊	Cd	114	0.271	ug/L	0.051	18	1	192	19	KED
⌈>	In	115		ug/L			519229	509267	1	Standard
⌊	Ag	107	0.139	ug/L	0.004	2	33	2357	2	Standard
⌈>	Tb	159		ug/L			190542	226516	2	Standard
⌊	Pb	208	13.207	ug/L	0.260	1	524	1431982	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0578-DUP1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 22:03:37
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27881	45160	2	Standard
⌈>	Sc	45		ug/L			600447	709676	1	Standard
|	Cr	52	15.013	ug/L	0.150	0	10860	287439	2	Standard
⌊	Cr	53	14.978	ug/L	0.160	1	113	32210	0	Standard
⌈>	Ge	72		ug/L			35776	35230	1	KED
|	Ni	60	13.396	ug/L	0.331	2	145	22823	1	KED
|	Ni	62	13.330	ug/L	0.172	1	28	3645	2	KED
|	Cu	63	30.968	ug/L	0.110	0	53	146728	1	KED
|	Cu	65	31.310	ug/L	0.657	2	29	76161	2	KED
|	Zn	66	63.015	ug/L	0.738	1	87	36788	0	KED
|	Zn	67	62.204	ug/L	1.138	1	19	5916	2	KED
⌊	As	75	6.961	ug/L	0.186	2	2	1968	1	KED
	Y	89		ug/L			55660	283560	1	Standard
	Kr	83		ug/L			44	85	22	Standard
⌈>	In-1	115		ug/L			7587	7404	1	KED
|	Cd	111	0.232	ug/L	0.043	18	4	66	17	KED
⌊	Cd	114	0.233	ug/L	0.017	7	1	162	8	KED
⌈>	In	115		ug/L			519229	492481	0	Standard
⌊	Ag	107	0.145	ug/L	0.004	2	33	2386	3	Standard
⌈>	Tb	159		ug/L			190542	220224	3	Standard
⌊	Pb	208	13.158	ug/L	0.300	2	524	1386701	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0578-MS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 22:08:02
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27881	41520	3	Standard
>	Sc	45		ug/L			600447	717446	3	Standard
	Cr	52	33.556	ug/L	0.650	1	10860	633326	3	Standard
	Cr	53	33.648	ug/L	0.689	2	113	72972	2	Standard
>	Ge	72		ug/L			35776	35212	3	KED
	Ni	60	35.184	ug/L	2.100	5	145	59616	2	KED
	Ni	62	34.676	ug/L	1.662	4	28	9422	1	KED
	Cu	63	52.193	ug/L	2.020	3	53	246942	1	KED
	Cu	65	52.053	ug/L	2.137	4	29	126415	1	KED
	Zn	66	126.817	ug/L	6.484	5	87	73838	2	KED
	Zn	67	124.720	ug/L	2.442	1	19	11832	1	KED
	As	75	27.696	ug/L	0.850	3	2	7818	0	KED
	Y	89		ug/L			55660	271396	0	Standard
	Kr	83		ug/L			44	100	14	Standard
>	In-1	115		ug/L			7587	7455	2	KED
	Cd	111	22.716	ug/L	0.408	1	4	6142	1	KED
	Cd	114	22.248	ug/L	0.741	3	1	15469	2	KED
>	In	115		ug/L			519229	514419	4	Standard
	Ag	107	18.205	ug/L	0.801	4	33	307640	0	Standard
>	Tb	159		ug/L			190542	221393	0	Standard
	Pb	208	33.456	ug/L	0.468	1	524	3545238	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0578-MSD1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 22:12:27
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27881	44015	3	Standard
>	Sc	45		ug/L			600447	721052	3	Standard
	Cr	52	36.977	ug/L	0.616	1	10860	700011	2	Standard
	Cr	53	37.171	ug/L	1.010	2	113	80983	2	Standard
>	Ge	72		ug/L			35776	34237	2	KED
	Ni	60	39.106	ug/L	0.914	2	145	64469	0	KED
	Ni	62	38.644	ug/L	0.795	2	28	10214	0	KED
	Cu	63	57.815	ug/L	0.699	1	53	266134	1	KED
	Cu	65	57.115	ug/L	0.664	1	29	134960	1	KED
	Zn	66	142.699	ug/L	4.197	2	87	80822	0	KED
	Zn	67	135.117	ug/L	3.802	2	19	12463	1	KED
	As	75	30.878	ug/L	0.621	2	2	8478	0	KED
	Y	89		ug/L			55660	287252	1	Standard
	Kr	83		ug/L			44	95	12	Standard
>	In-1	115		ug/L			7587	7377	2	KED
	Cd	111	25.360	ug/L	0.541	2	4	6784	0	KED
	Cd	114	25.469	ug/L	0.366	1	1	17530	3	KED
>	In	115		ug/L			519229	497333	1	Standard
	Ag	107	19.764	ug/L	0.913	4	33	323142	2	Standard
>	Tb	159		ug/L			190542	219212	0	Standard
	Pb	208	37.388	ug/L	0.368	0	524	3923097	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLD0578-PS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 22:16:52
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27881	45372	6	Standard
⌈>	**Sc**	**45**		ug/L			600447	718540	2	Standard
|	**Cr**	**52**	**36.741**	ug/L	0.599	1	10860	693185	1	Standard
⌊	**Cr**	**53**	**36.056**	ug/L	0.837	2	113	78288	0	Standard
⌈>	**Ge**	**72**		ug/L			35776	34859	1	KED
|	**Ni**	**60**	**37.401**	ug/L	0.136	0	145	62811	1	KED
|	**Ni**	**62**	**38.589**	ug/L	0.944	2	28	10387	2	KED
|	**Cu**	**63**	**56.121**	ug/L	0.896	1	53	263033	0	KED
|	**Cu**	**65**	**55.252**	ug/L	1.012	1	29	132930	0	KED
|	**Zn**	**66**	**138.618**	ug/L	1.496	1	87	79980	1	KED
|	**Zn**	**67**	**132.100**	ug/L	4.039	3	19	12408	2	KED
⌊	**As**	**75**	**30.730**	ug/L	0.687	2	2	8591	0	KED
	Y	**89**		ug/L			55660	288018	2	Standard
	Kr	**83**		ug/L			44	80	8	Standard
⌈>	**In-1**	**115**		ug/L			7587	7491	3	KED
|	**Cd**	**111**	**24.290**	ug/L	0.743	3	4	6597	1	KED
⌊	**Cd**	**114**	**24.183**	ug/L	0.272	1	1	16899	2	KED
⌈>	**In**	**115**		ug/L			519229	508102	0	Standard
⌊	**Ag**	**107**	**24.891**	ug/L	0.312	1	33	416033	1	Standard
⌈>	**Tb**	**159**		ug/L			190542	220946	1	Standard
⌊	**Pb**	**208**	**37.236**	ug/L	0.193	0	524	3937864	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL7
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 22:21:18
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27881	27642	4	Standard
⌈>	**Sc**	**45**		ug/L			600447	603813	2	Standard
|	**Cr**	**52**	**-0.051**	ug/L	0.021	41	10860	10122	2	Standard
⌊	**Cr**	**53**	**-0.013**	ug/L	0.005	41	113	90	8	Standard
⌈>	**Ge**	**72**		ug/L			35776	35433	2	KED
|	**Ni**	**60**	**0.021**	ug/L	0.007	33	145	179	6	KED
|	**Ni**	**62**	**0.047**	ug/L	0.030	63	28	41	20	KED
|	**Cu**	**63**	**0.002**	ug/L	0.002	110	53	62	15	KED
|	**Cu**	**65**	**0.002**	ug/L	0.001	43	29	34	5	KED
|	**Zn**	**66**	**-0.045**	ug/L	0.015	32	87	60	13	KED
|	**Zn**	**67**	**-0.092**	ug/L	0.078	84	19	10	71	KED
⌊	**As**	**75**	**-0.000**	ug/L	0.004	850	2	2	48	KED
	Y	**89**		ug/L			55660	56192	1	Standard
	Kr	**83**		ug/L			44	38	7	Standard
⌈>	**In-1**	**115**		ug/L			7587	7673	1	KED
|	**Cd**	**111**	**-0.008**	ug/L	0.003	40	4	1	50	KED
⌊	**Cd**	**114**	**0.003**	ug/L	0.005	205	1	3	104	KED
⌈>	**In**	**115**		ug/L			519229	511235	2	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.000	5	33	62	0	Standard
⌈>	**Tb**	**159**		ug/L			190542	202248	1	Standard
⌊	**Pb**	**208**	**-0.000**	ug/L	0.000	102	524	535	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV8
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 22:25:43
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27881	27192	3	Standard
⌈>	**Sc**	**45**		ug/L			600447	608622	1	Standard
|	**Cr**	**52**	**50.684**	ug/L	0.378	0	10860	805976	1	Standard
⌊	**Cr**	**53**	**49.678**	ug/L	1.026	2	113	91340	1	Standard
⌈>	**Ge**	**72**		ug/L			35776	35568	0	KED
|	**Ni**	**60**	**48.330**	ug/L	0.870	1	145	82768	1	KED
|	**Ni**	**62**	**48.442**	ug/L	0.639	1	28	13298	1	KED
|	**Cu**	**63**	**49.417**	ug/L	0.579	1	53	236363	1	KED
|	**Cu**	**65**	**48.231**	ug/L	1.469	3	29	118414	2	KED
|	**Zn**	**66**	**49.608**	ug/L	0.551	1	87	29261	1	KED
|	**Zn**	**67**	**49.324**	ug/L	1.186	2	19	4740	2	KED
⌊	**As**	**75**	**49.969**	ug/L	0.076	0	2	14256	0	KED
	Y	**89**		ug/L			55660	56809	4	Standard
	Kr	**83**		ug/L			44	47	18	Standard
⌈>	**In-1**	**115**		ug/L			7587	7389	1	KED
|	**Cd**	**111**	**49.546**	ug/L	1.061	2	4	13275	1	KED
⌊	**Cd**	**114**	**49.494**	ug/L	0.422	0	1	34117	1	KED
⌈>	**In**	**115**		ug/L			519229	506372	2	Standard
⌊	**Ag**	**107**	**49.532**	ug/L	0.924	1	33	824893	2	Standard
⌈>	**Tb**	**159**		ug/L			190542	201346	2	Standard
⌊	**Pb**	**208**	**50.146**	ug/L	1.169	2	524	4830970	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB8
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 22:32:53
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27881	27637	6	Standard
⌈>	**Sc**	**45**		ug/L			600447	601964	1	Standard
|	**Cr**	**52**	**-0.026**	ug/L	0.016	62	10860	10474	1	Standard
⌊	**Cr**	**53**	**-0.005**	ug/L	0.003	63	113	103	4	Standard
⌈>	**Ge**	**72**		ug/L			35776	36137	1	KED
|	**Ni**	**60**	**0.016**	ug/L	0.012	73	145	174	12	KED
|	**Ni**	**62**	**-0.044**	ug/L	0.014	32	28	16	24	KED
|	**Cu**	**63**	**0.002**	ug/L	0.003	112	53	66	21	KED
|	**Cu**	**65**	**0.002**	ug/L	0.001	67	29	33	8	KED
|	**Zn**	**66**	**-0.036**	ug/L	0.015	41	87	66	12	KED
|	**Zn**	**67**	**-0.081**	ug/L	0.028	34	19	12	24	KED
⌊	**As**	**75**	**0.003**	ug/L	0.007	258	2	3	65	KED
	Y	**89**		ug/L			55660	54450	2	Standard
	Kr	**83**		ug/L			44	43	21	Standard
⌈>	**In-1**	**115**		ug/L			7587	7720	2	KED
|	**Cd**	**111**	**-0.009**	ug/L	0.005	57	4	1	91	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.003	180	1	2	70	KED
⌈>	**In**	**115**		ug/L			519229	507656	1	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.001	25	33	67	14	Standard
⌈>	**Tb**	**159**		ug/L			190542	194063	1	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.000	133	524	566	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0467-06
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 22:37:19
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27881	44112	4	Standard
⌈>	Sc	45		ug/L			600447	709054	2	Standard
|	Cr	52	13.866	ug/L	0.406	2	10860	266055	0	Standard
⌊	Cr	53	14.000	ug/L	0.297	2	113	30081	1	Standard
⌈>	Ge	72		ug/L			35776	34999	2	KED
|	Ni	60	11.928	ug/L	0.327	2	145	20201	1	KED
|	Ni	62	11.602	ug/L	0.091	0	28	3155	1	KED
|	Cu	63	30.347	ug/L	0.908	2	53	142788	1	KED
|	Cu	65	29.640	ug/L	1.166	3	29	71581	1	KED
|	Zn	66	67.932	ug/L	2.944	4	87	39370	2	KED
|	Zn	67	65.305	ug/L	2.153	3	19	6167	1	KED
⌊	As	75	7.893	ug/L	0.118	1	2	2217	1	KED
	Y	89		ug/L			55660	269034	2	Standard
	Kr	83		ug/L			44	83	10	Standard
⌈>	In-1	115		ug/L			7587	7517	0	KED
|	Cd	111	0.202	ug/L	0.025	12	4	59	11	KED
⌊	Cd	114	0.197	ug/L	0.029	14	1	139	14	KED
⌈>	In	115		ug/L			519229	510602	1	Standard
⌊	Ag	107	0.120	ug/L	0.002	1	33	2052	2	Standard
⌈>	Tb	159		ug/L			190542	219802	3	Standard
⌊	Pb	208	11.171	ug/L	0.325	2	524	1174869	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0467-07
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 22:41:44
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27881	42440	3	Standard
⌈>	Sc	45		ug/L			600447	715357	1	Standard
|	Cr	52	12.859	ug/L	0.040	0	10860	250000	1	Standard
⌊	Cr	53	13.009	ug/L	0.357	2	113	28218	3	Standard
⌈>	Ge	72		ug/L			35776	34864	1	KED
|	Ni	60	13.775	ug/L	0.257	1	145	23223	1	KED
|	Ni	62	13.798	ug/L	0.584	4	28	3734	5	KED
|	Cu	63	24.510	ug/L	0.357	1	53	114927	0	KED
|	Cu	65	24.470	ug/L	0.195	0	29	58904	0	KED
|	Zn	66	53.122	ug/L	1.279	2	87	30701	1	KED
|	Zn	67	53.087	ug/L	0.536	1	19	4999	0	KED
⌊	As	75	6.441	ug/L	0.043	0	2	1803	0	KED
	Y	89		ug/L			55660	266859	1	Standard
	Kr	83		ug/L			44	73	3	Standard
⌈>	In-1	115		ug/L			7587	7219	2	KED
|	Cd	111	0.125	ug/L	0.023	18	4	36	14	KED
⌊	Cd	114	0.155	ug/L	0.036	23	1	106	25	KED
⌈>	In	115		ug/L			519229	505027	1	Standard
⌊	Ag	107	0.096	ug/L	0.002	2	33	1635	3	Standard
⌈>	Tb	159		ug/L			190542	222110	1	Standard
⌊	Pb	208	9.491	ug/L	0.215	2	524	1009179	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0467-08
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 22:46:09
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27881	42216	5	Standard
⌈>	Sc	45		ug/L			600447	737126	2	Standard
|	Cr	52	15.985	ug/L	0.581	3	10860	316818	1	Standard
⌊	Cr	53	15.684	ug/L	0.237	1	113	35018	1	Standard
⌈>	Ge	72		ug/L			35776	34661	1	KED
|	Ni	60	13.792	ug/L	0.237	1	145	23115	0	KED
|	Ni	62	13.986	ug/L	0.109	0	28	3761	1	KED
|	Cu	63	36.202	ug/L	0.537	1	53	168737	0	KED
|	Cu	65	36.196	ug/L	0.297	0	29	86607	0	KED
|	Zn	66	68.237	ug/L	0.710	1	87	39187	0	KED
|	Zn	67	64.700	ug/L	1.108	1	19	6053	0	KED
⌊	As	75	7.814	ug/L	0.160	2	2	2174	0	KED
	Y	89		ug/L			55660	305716	1	Standard
	Kr	83		ug/L			44	94	9	Standard
⌈>	In-1	115		ug/L			7587	7387	3	KED
|	Cd	111	0.230	ug/L	0.034	14	4	65	10	KED
⌊	Cd	114	0.189	ug/L	0.020	10	1	132	12	KED
⌈>	In	115		ug/L			519229	504320	1	Standard
⌊	Ag	107	0.173	ug/L	0.003	1	33	2906	2	Standard
⌈>	Tb	159		ug/L			190542	220823	3	Standard
⌊	Pb	208	16.723	ug/L	0.540	3	524	1766569	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23A0467-09
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 22:50:34
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27881	36941	3	Standard
⌈>	Sc	45		ug/L			600447	707482	1	Standard
|	Cr	52	13.403	ug/L	0.125	0	10860	257172	1	Standard
⌊	Cr	53	12.977	ug/L	0.121	0	113	27843	2	Standard
⌈>	Ge	72		ug/L			35776	35020	0	KED
|	Ni	60	12.070	ug/L	0.218	1	145	20458	1	KED
|	Ni	62	12.224	ug/L	0.385	3	28	3325	3	KED
|	Cu	63	25.027	ug/L	0.373	1	53	117881	1	KED
|	Cu	65	24.754	ug/L	0.415	1	29	59854	1	KED
|	Zn	66	60.844	ug/L	0.755	1	87	35314	0	KED
|	Zn	67	108.303	ug/L	2.395	2	19	10225	1	KED
⌊	As	75	5.746	ug/L	0.088	1	2	1616	1	KED
	Y	89		ug/L			55660	254580	0	Standard
	Kr	83		ug/L			44	77	7	Standard
⌈>	In-1	115		ug/L			7587	7416	2	KED
|	Cd	111	0.125	ug/L	0.025	19	4	37	19	KED
⌊	Cd	114	0.136	ug/L	0.011	7	1	95	8	KED
⌈>	In	115		ug/L			519229	494495	1	Standard
⌊	Ag	107	0.103	ug/L	0.004	3	33	1702	2	Standard
⌈>	Tb	159		ug/L			190542	218399	1	Standard
⌊	Pb	208	11.623	ug/L	0.140	1	524	1215246	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0393-04
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 22:54:53
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			27881	28956	0	Standard
> Sc	45		ug/L			600447	632927	2	Standard
Cr	52	83.030	ug/L	1.894	2	10860	1365955	3	Standard
Cr	53	82.553	ug/L	2.117	2	113	157762	1	Standard
> Ge	72		ug/L			35776	31287	1	KED
Ni	60	23.659	ug/L	0.556	2	145	35697	0	KED
Ni	62	27.194	ug/L	0.581	2	28	6576	0	KED
Cu	63	2498.049	ug/L	48.349	1	53	10506397	1	KED
Cu	65	2569.123	ug/L	57.301	2	29	5546287	0	KED
Zn	66	7354.329	ug/L	288.789	3	87	3803532	3	KED
Zn	67	6774.525	ug/L	131.191	1	19	570411	2	KED
As	75	1054.444	ug/L	16.893	1	2	264562	0	KED
Y	89		ug/L			55660	282337	3	Standard
Kr	83		ug/L			44	108	15	Standard
> In-1	115		ug/L			7587	16696	0	KED
Cd	111	2.127	ug/L	0.026	1	4	1296	1	KED
Cd	114	2.036	ug/L	0.022	1	1	3175	0	KED
> In	115		ug/L			519229	910777	0	Standard
Ag	107	0.753	ug/L	0.018	2	33	22621	2	Standard
> Tb	159		ug/L			190542	158646	1	Standard
Pb	208	1211.380	ug/L	38.633	3	524	91952848	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0072-DUP1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 22:59:18
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			27881	30314	5	Standard
> Sc	45		ug/L			600447	626535	3	Standard
Cr	52	85.240	ug/L	2.397	2	10860	1386839	0	Standard
Cr	53	84.038	ug/L	2.060	2	113	158948	2	Standard
> Ge	72		ug/L			35776	30534	0	KED
Ni	60	24.774	ug/L	0.555	2	145	36484	2	KED
Ni	62	29.303	ug/L	0.311	1	28	6915	0	KED
Cu	63	2817.731	ug/L	58.540	2	53	11567687	2	KED
Cu	65	2764.990	ug/L	27.962	1	29	5826764	0	KED
Zn	66	7637.721	ug/L	56.656	0	87	3856088	0	KED
Zn	67	7060.766	ug/L	69.114	0	19	580207	0	KED
As	75	1082.369	ug/L	5.384	0	2	265078	0	KED
Y	89		ug/L			55660	316457	1	Standard
Kr	83		ug/L			44	93	15	Standard
> In-1	115		ug/L			7587	15962	1	KED
Cd	111	2.478	ug/L	0.072	2	4	1442	3	KED
Cd	114	2.439	ug/L	0.022	0	1	3635	0	KED
> In	115		ug/L			519229	899865	0	Standard
Ag	107	0.832	ug/L	0.021	2	33	24686	1	Standard
> Tb	159		ug/L			190542	160807	0	Standard
Pb	208	1201.329	ug/L	19.280	1	524	92444349	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0072-MS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 23:03:43
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27881	27291	5	Standard
>	Sc	45		ug/L			600447	608593	1	Standard
	Cr	52	110.095	ug/L	3.295	2	10860	1737242	1	Standard
	Cr	53	108.219	ug/L	1.529	1	113	198841	0	Standard
>	Ge	72		ug/L			35776	29436	2	KED
	Ni	60	48.982	ug/L	1.875	3	145	69379	1	KED
	Ni	62	54.981	ug/L	2.524	4	28	12479	1	KED
	Cu	63	3042.849	ug/L	134.473	4	53	12033133	1	KED
	Cu	65	3048.235	ug/L	86.303	2	29	6189784	1	KED
	Zn	66	7993.790	ug/L	257.905	3	87	3888434	0	KED
	Zn	67	7334.042	ug/L	256.573	3	19	580633	0	KED
	As	75	1176.119	ug/L	32.073	2	2	277546	0	KED
	Y	89		ug/L			55660	297960	0	Standard
	Kr	83		ug/L			44	105	19	Standard
>	In-1	115		ug/L			7587	15976	1	KED
	Cd	111	10.853	ug/L	0.123	1	4	6294	0	KED
	Cd	114	10.994	ug/L	0.247	2	1	16388	2	KED
>	In	115		ug/L			519229	904235	1	Standard
	Ag	107	4.491	ug/L	0.132	2	33	133599	1	Standard
>	Tb	159		ug/L			190542	157324	0	Standard
	Pb	208	1280.635	ug/L	22.743	1	524	96414758	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0072-MSD1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 23:08:08
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27881	26877	3	Standard
>	Sc	45		ug/L			600447	611441	1	Standard
	Cr	52	111.436	ug/L	3.976	3	10860	1766516	2	Standard
	Cr	53	110.105	ug/L	4.573	4	113	203202	2	Standard
>	Ge	72		ug/L			35776	29152	0	KED
	Ni	60	48.618	ug/L	0.881	1	145	68250	2	KED
	Ni	62	51.789	ug/L	1.011	1	28	11653	2	KED
	Cu	63	2806.959	ug/L	37.381	1	53	11000916	0	KED
	Cu	65	2816.731	ug/L	71.420	2	29	5666231	1	KED
	Zn	66	8265.905	ug/L	136.269	1	87	3984176	1	KED
	Zn	67	7616.692	ug/L	44.699	0	19	597534	0	KED
	As	75	1296.431	ug/L	11.821	0	2	303108	0	KED
	Y	89		ug/L			55660	289686	0	Standard
	Kr	83		ug/L			44	106	18	Standard
>	In-1	115		ug/L			7587	16333	1	KED
	Cd	111	11.000	ug/L	0.211	1	4	6521	0	KED
	Cd	114	10.726	ug/L	0.114	1	1	16343	0	KED
>	In	115		ug/L			519229	951207	3	Standard
	Ag	107	4.378	ug/L	0.114	2	33	136944	1	Standard
>	Tb	159		ug/L			190542	157453	1	Standard
	Pb	208	1380.771	ug/L	20.785	1	524	104030860	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0072-PS1
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 23:12:33
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27881	27119	1	Standard
⌈>	**Sc**	**45**		ug/L			600447	605688	1	Standard
|	**Cr**	**52**	**107.946**	ug/L	4.648	4	10860	1695312	3	Standard
⌊	**Cr**	**53**	**105.056**	ug/L	2.621	2	113	192093	1	Standard
⌈>	**Ge**	**72**		ug/L			35776	29173	1	KED
|	**Ni**	**60**	**48.441**	ug/L	1.072	2	145	68035	1	KED
|	**Ni**	**62**	**51.887**	ug/L	1.933	3	28	11679	2	KED
|	**Cu**	**63**	**2659.663**	ug/L	25.993	0	53	10431378	0	KED
|	**Cu**	**65**	**2674.653**	ug/L	89.805	3	29	5383864	2	KED
|	**Zn**	**66**	**7740.478**	ug/L	41.895	0	87	3733813	1	KED
|	**Zn**	**67**	**7109.067**	ug/L	112.602	1	19	558068	0	KED
⌊	**As**	**75**	**1097.144**	ug/L	7.742	0	2	256700	0	KED
	Y	**89**		ug/L			55660	287334	1	Standard
	Kr	**83**		ug/L			44	88	2	Standard
⌈>	**In-1**	**115**		ug/L			7587	15754	1	KED
|	**Cd**	**111**	**11.382**	ug/L	0.376	3	4	6507	1	KED
⌊	**Cd**	**114**	**11.428**	ug/L	0.447	3	1	16790	2	KED
⌈>	**In**	**115**		ug/L			519229	924163	2	Standard
⌊	**Ag**	**107**	**11.450**	ug/L	0.297	2	33	347999	1	Standard
⌈>	**Tb**	**159**		ug/L			190542	158980	1	Standard
⌊	**Pb**	**208**	**1253.989**	ug/L	4.849	0	524	95406487	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL8
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 23:16:59
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27881	22829	2	Standard
⌈>	**Sc**	**45**		ug/L			600447	564251	0	Standard
|	**Cr**	**52**	**0.030**	ug/L	0.034	113	10860	10641	4	Standard
⌊	**Cr**	**53**	**0.025**	ug/L	0.031	125	113	148	35	Standard
⌈>	**Ge**	**72**		ug/L			35776	31647	0	KED
|	**Ni**	**60**	**0.041**	ug/L	0.020	47	145	190	15	KED
|	**Ni**	**62**	**0.027**	ug/L	0.012	44	28	31	9	KED
|	**Cu**	**63**	**0.082**	ug/L	0.007	8	53	398	7	KED
|	**Cu**	**65**	**0.082**	ug/L	0.013	15	29	205	13	KED
|	**Zn**	**66**	**0.206**	ug/L	0.036	17	87	185	10	KED
|	**Zn**	**67**	**0.094**	ug/L	0.046	48	19	25	15	KED
⌊	**As**	**75**	**0.075**	ug/L	0.010	13	2	20	12	KED
	Y	**89**		ug/L			55660	54412	1	Standard
	Kr	**83**		ug/L			44	53	15	Standard
⌈>	**In-1**	**115**		ug/L			7587	6568	3	KED
|	**Cd**	**111**	**-0.012**	ug/L	0.002	18	4	0	86	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.001	26	1	2	8	KED
⌈>	**In**	**115**		ug/L			519229	523168	3	Standard
⌊	**Ag**	**107**	**0.008**	ug/L	0.008	104	33	168	86	Standard
⌈>	**Tb**	**159**		ug/L			190542	194825	1	Standard
⌊	**Pb**	**208**	**0.275**	ug/L	0.271	98	524	25917	95	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCV9
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 23:21:24
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27881	24653	5	Standard
⌈>	**Sc**	**45**		ug/L			600447	591563	1	Standard
|	**Cr**	**52**	**49.379**	ug/L	0.755	1	10860	763476	1	Standard
⌊	**Cr**	**53**	**48.410**	ug/L	0.314	0	113	86533	1	Standard
⌈>	**Ge**	**72**		ug/L			35776	32024	1	KED
|	**Ni**	**60**	**49.999**	ug/L	0.359	0	145	77097	2	KED
|	**Ni**	**62**	**50.338**	ug/L	0.599	1	28	12440	0	KED
|	**Cu**	**63**	**50.853**	ug/L	0.479	0	53	218983	1	KED
|	**Cu**	**65**	**50.279**	ug/L	0.509	1	29	111154	1	KED
|	**Zn**	**66**	**50.970**	ug/L	0.590	1	87	27069	2	KED
|	**Zn**	**67**	**51.946**	ug/L	1.180	2	19	4493	1	KED
⌊	**As**	**75**	**50.153**	ug/L	1.115	2	2	12882	1	KED
	Y	**89**		ug/L			55660	54346	3	Standard
	Kr	**83**		ug/L			44	41	30	Standard
⌈>	**In-1**	**115**		ug/L			7587	6872	2	KED
|	**Cd**	**111**	**49.954**	ug/L	1.477	2	4	12444	0	KED
⌊	**Cd**	**114**	**50.060**	ug/L	0.658	1	1	32090	1	KED
⌈>	**In**	**115**		ug/L			519229	500870	0	Standard
⌊	**Ag**	**107**	**48.812**	ug/L	0.335	0	33	804173	0	Standard
⌈>	**Tb**	**159**		ug/L			190542	196347	1	Standard
⌊	**Pb**	**208**	**52.229**	ug/L	0.704	1	524	4907728	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCB9
Sample Dil Factor:
Comments:
Sample Date/Time: Wednesday, May 10, 2023 23:28:34
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27881	24509	6	Standard
⌈>	**Sc**	**45**		ug/L			600447	583759	2	Standard
|	**Cr**	**52**	**-0.028**	ug/L	0.018	66	10860	10137	2	Standard
⌊	**Cr**	**53**	**-0.011**	ug/L	0.006	52	113	90	13	Standard
⌈>	**Ge**	**72**		ug/L			35776	33371	3	KED
|	**Ni**	**60**	**-0.006**	ug/L	0.007	114	145	125	11	KED
|	**Ni**	**62**	**-0.014**	ug/L	0.022	152	28	22	22	KED
|	**Cu**	**63**	**0.016**	ug/L	0.007	43	53	120	27	KED
|	**Cu**	**65**	**0.018**	ug/L	0.005	27	29	69	15	KED
|	**Zn**	**66**	**0.001**	ug/L	0.018	3110	87	81	10	KED
|	**Zn**	**67**	**-0.063**	ug/L	0.009	14	19	12	8	KED
⌊	**As**	**75**	**0.023**	ug/L	0.007	31	2	8	20	KED
	Y	**89**		ug/L			55660	54110	1	Standard
	Kr	**83**		ug/L			44	46	13	Standard
⌈>	**In-1**	**115**		ug/L			7587	6862	2	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.004	201	4	3	34	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.004	180	1	2	81	KED
⌈>	**In**	**115**		ug/L			519229	515794	3	Standard
⌊	**Ag**	**107**	**0.003**	ug/L	0.001	26	33	82	17	Standard
⌈>	**Tb**	**159**		ug/L			190542	195697	2	Standard
⌊	**Pb**	**208**	**0.007**	ug/L	0.000	1	524	1220	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0071-01
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 23:33:00
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27881	41800	4	Standard
⌈>	Sc	45		ug/L			600447	694893	1	Standard
|	Cr	52	14.760	ug/L	0.330	2	10860	276862	1	Standard
⌊	Cr	53	14.749	ug/L	0.355	2	113	31060	2	Standard
⌈>	Ge	72		ug/L			35776	33387	1	KED
|	Ni	60	12.096	ug/L	0.354	2	145	19540	1	KED
|	Ni	62	12.236	ug/L	0.141	1	28	3173	2	KED
|	Cu	63	34.440	ug/L	0.616	1	53	154616	0	KED
|	Cu	65	33.554	ug/L	0.420	1	29	77335	1	KED
|	Zn	66	61.897	ug/L	0.534	0	87	34249	1	KED
|	Zn	67	60.911	ug/L	2.396	3	19	5489	2	KED
⌊	As	75	7.068	ug/L	0.157	2	2	1894	2	KED
	Y	89		ug/L			55660	279345	1	Standard
	Kr	83		ug/L			44	90	13	Standard
⌈>	In-1	115		ug/L			7587	6934	2	KED
|	Cd	111	0.195	ug/L	0.047	24	4	52	21	KED
⌊	Cd	114	0.219	ug/L	0.014	6	1	143	8	KED
⌈>	In	115		ug/L			519229	517494	0	Standard
⌊	Ag	107	0.165	ug/L	0.003	1	33	2844	1	Standard
⌈>	Tb	159		ug/L			190542	224144	0	Standard
⌊	Pb	208	14.987	ug/L	0.095	0	524	1608279	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0071-02
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 23:37:25
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27881	41920	5	Standard
⌈>	Sc	45		ug/L			600447	707279	1	Standard
|	Cr	52	13.606	ug/L	0.173	1	10860	260824	2	Standard
⌊	Cr	53	13.450	ug/L	0.128	0	113	28839	1	Standard
⌈>	Ge	72		ug/L			35776	33813	2	KED
|	Ni	60	12.474	ug/L	0.318	2	145	20402	0	KED
|	Ni	62	12.568	ug/L	0.337	2	28	3298	0	KED
|	Cu	63	27.102	ug/L	0.625	2	53	123211	0	KED
|	Cu	65	26.633	ug/L	0.700	2	29	62154	0	KED
|	Zn	66	53.856	ug/L	2.290	4	87	30171	1	KED
|	Zn	67	53.534	ug/L	0.966	1	19	4890	3	KED
⌊	As	75	6.504	ug/L	0.322	4	2	1764	2	KED
	Y	89		ug/L			55660	279415	2	Standard
	Kr	83		ug/L			44	85	14	Standard
⌈>	In-1	115		ug/L			7587	7109	2	KED
|	Cd	111	0.169	ug/L	0.030	17	4	47	16	KED
⌊	Cd	114	0.154	ug/L	0.036	23	1	103	20	KED
⌈>	In	115		ug/L			519229	506285	1	Standard
⌊	Ag	107	0.112	ug/L	0.003	2	33	1899	2	Standard
⌈>	Tb	159		ug/L			190542	221252	0	Standard
⌊	Pb	208	10.941	ug/L	0.016	0	524	1159070	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0071-03
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 23:41:50
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27881	41624	4	Standard
⌈>	Sc	45		ug/L			600447	641883	18	Standard
|	Cr	52	16.175	ug/L	2.585	15	10860	274088	4	Standard
⌊	Cr	53	16.107	ug/L	2.732	16	113	30688	3	Standard
⌈>	Ge	72		ug/L			35776	33460	0	KED
|	Ni	60	13.007	ug/L	0.126	0	145	21054	1	KED
|	Ni	62	12.937	ug/L	0.251	1	28	3360	1	KED
|	Cu	63	34.231	ug/L	0.569	1	53	154049	2	KED
|	Cu	65	33.408	ug/L	0.682	2	29	77167	1	KED
|	Zn	66	66.941	ug/L	2.382	3	87	37107	2	KED
|	Zn	67	64.779	ug/L	1.290	1	19	5850	1	KED
⌊	As	75	7.501	ug/L	0.124	1	2	2015	1	KED
	Y	89		ug/L			55660	272445	5	Standard
	Kr	83		ug/L			44	93	25	Standard
⌈>	In-1	115		ug/L			7587	7083	2	KED
|	Cd	111	0.206	ug/L	0.024	11	4	56	9	KED
⌊	Cd	114	0.231	ug/L	0.024	10	1	153	9	KED
⌈>	In	115		ug/L			519229	441955	19	Standard
⌊	Ag	107	0.171	ug/L	0.035	20	33	2452	1	Standard
⌈>	Tb	159		ug/L			190542	205536	15	Standard
⌊	Pb	208	15.984	ug/L	2.361	14	524	1548517	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0071-04
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 23:46:15
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27881	41611	5	Standard
⌈>	Sc	45		ug/L			600447	699791	2	Standard
|	Cr	52	14.261	ug/L	0.110	0	10860	269809	2	Standard
⌊	Cr	53	14.245	ug/L	0.285	2	113	30206	1	Standard
⌈>	Ge	72		ug/L			35776	33878	0	KED
|	Ni	60	12.340	ug/L	0.198	1	145	20233	1	KED
|	Ni	62	11.929	ug/L	0.375	3	28	3139	2	KED
|	Cu	63	32.200	ug/L	0.998	3	53	146699	2	KED
|	Cu	65	31.622	ug/L	0.386	1	29	73963	1	KED
|	Zn	66	61.960	ug/L	0.332	0	87	34789	0	KED
|	Zn	67	62.225	ug/L	1.387	2	19	5691	1	KED
⌊	As	75	7.169	ug/L	0.232	3	2	1949	2	KED
	Y	89		ug/L			55660	273102	1	Standard
	Kr	83		ug/L			44	73	25	Standard
⌈>	In-1	115		ug/L			7587	6963	1	KED
|	Cd	111	0.182	ug/L	0.016	8	4	49	9	KED
⌊	Cd	114	0.260	ug/L	0.013	4	1	170	3	KED
⌈>	In	115		ug/L			519229	502263	0	Standard
⌊	Ag	107	0.134	ug/L	0.006	4	33	2247	4	Standard
⌈>	Tb	159		ug/L			190542	223559	0	Standard
⌊	Pb	208	13.661	ug/L	0.263	1	524	1462194	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0071-05
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 23:50:40
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27881	40115	3	Standard
⌈>	Sc	45		ug/L			600447	696541	1	Standard
|	Cr	52	13.972	ug/L	0.171	1	10860	263366	0	Standard
⌊	Cr	53	14.084	ug/L	0.546	3	113	29722	2	Standard
⌈>	Ge	72		ug/L			35776	34063	0	KED
|	Ni	60	12.153	ug/L	0.004	0	145	20035	0	KED
|	Ni	62	12.203	ug/L	0.252	2	28	3228	2	KED
|	Cu	63	30.621	ug/L	0.182	0	53	140286	1	KED
|	Cu	65	30.888	ug/L	0.529	1	29	72636	1	KED
|	Zn	66	61.152	ug/L	1.552	2	87	34527	3	KED
|	Zn	67	60.193	ug/L	0.541	0	19	5536	0	KED
⌊	As	75	6.442	ug/L	0.173	2	2	1761	2	KED
	Y	89		ug/L			55660	267558	1	Standard
	Kr	83		ug/L			44	67	5	Standard
⌈>	In-1	115		ug/L			7587	7095	0	KED
|	Cd	111	0.200	ug/L	0.033	16	4	55	15	KED
⌊	Cd	114	0.229	ug/L	0.041	17	1	153	18	KED
⌈>	In	115		ug/L			519229	499273	1	Standard
⌊	Ag	107	0.139	ug/L	0.012	8	33	2310	7	Standard
⌈>	Tb	159		ug/L			190542	219835	0	Standard
⌊	Pb	208	14.358	ug/L	0.249	1	524	1511199	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0071-06
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 23:55:05
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27881	40341	3	Standard
⌈>	Sc	45		ug/L			600447	679727	1	Standard
|	Cr	52	13.576	ug/L	0.280	2	10860	250134	2	Standard
⌊	Cr	53	13.642	ug/L	0.301	2	113	28109	1	Standard
⌈>	Ge	72		ug/L			35776	33903	1	KED
|	Ni	60	11.924	ug/L	0.282	2	145	19565	1	KED
|	Ni	62	11.936	ug/L	0.534	4	28	3142	3	KED
|	Cu	63	27.743	ug/L	0.140	0	53	126506	1	KED
|	Cu	65	27.736	ug/L	0.201	0	29	64920	1	KED
|	Zn	66	58.405	ug/L	1.496	2	87	32817	2	KED
|	Zn	67	57.184	ug/L	1.965	3	19	5233	1	KED
⌊	As	75	5.879	ug/L	0.200	3	2	1600	2	KED
	Y	89		ug/L			55660	253187	1	Standard
	Kr	83		ug/L			44	62	15	Standard
⌈>	In-1	115		ug/L			7587	7134	2	KED
|	Cd	111	0.173	ug/L	0.033	19	4	48	16	KED
⌊	Cd	114	0.200	ug/L	0.032	15	1	134	17	KED
⌈>	In	115		ug/L			519229	507129	2	Standard
⌊	Ag	107	0.133	ug/L	0.005	4	33	2255	2	Standard
⌈>	Tb	159		ug/L			190542	221170	1	Standard
⌊	Pb	208	19.884	ug/L	0.450	2	524	2104767	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0109-02
Sample Dil Factor: 20
Comments:
Sample Date/Time: Wednesday, May 10, 2023 23:59:24
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27881	41351	4	Standard
⌈>	Sc	45		ug/L			600447	689065	1	Standard
|	Cr	52	13.277	ug/L	0.115	0	10860	248242	1	Standard
⌊	Cr	53	13.127	ug/L	0.146	1	113	27430	2	Standard
⌈>	Ge	72		ug/L			35776	33601	1	KED
|	Ni	60	10.961	ug/L	0.105	0	145	17839	1	KED
|	Ni	62	10.953	ug/L	0.166	1	28	2861	0	KED
|	Cu	63	37.403	ug/L	0.776	2	53	169002	1	KED
|	Cu	65	37.230	ug/L	1.137	3	29	86342	1	KED
|	Zn	66	54.195	ug/L	0.498	0	87	30188	0	KED
|	Zn	67	51.947	ug/L	1.758	3	19	4714	2	KED
⌊	As	75	8.383	ug/L	0.093	1	2	2260	0	KED
	Y	89		ug/L			55660	253081	2	Standard
	Kr	83		ug/L			44	70	4	Standard
⌈>	In-1	115		ug/L			7587	7085	2	KED
|	Cd	111	0.178	ug/L	0.018	10	4	49	8	KED
⌊	Cd	114	0.173	ug/L	0.014	7	1	116	9	KED
⌈>	In	115		ug/L			519229	506436	3	Standard
⌊	Ag	107	0.140	ug/L	0.009	6	33	2360	2	Standard
⌈>	Tb	159		ug/L			190542	218914	0	Standard
⌊	Pb	208	13.032	ug/L	0.026	0	524	1365955	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0109-03
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 00:03:49
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27881	44730	2	Standard
>	Sc	45		ug/L			600447	695996	0	Standard
	Cr	52	13.163	ug/L	0.197	1	10860	248690	1	Standard
	Cr	53	12.957	ug/L	0.368	2	113	27345	2	Standard
>	Ge	72		ug/L			35776	33265	1	KED
	Ni	60	11.039	ug/L	0.401	3	145	17780	2	KED
	Ni	62	11.096	ug/L	0.292	2	28	2868	1	KED
	Cu	63	33.534	ug/L	0.794	2	53	150033	2	KED
	Cu	65	33.030	ug/L	0.499	1	29	75849	0	KED
	Zn	66	55.322	ug/L	0.971	1	87	30504	0	KED
	Zn	67	55.166	ug/L	1.585	2	19	4957	3	KED
	As	75	8.674	ug/L	0.314	3	2	2315	2	KED
	Y	89		ug/L			55660	251821	1	Standard
	Kr	83		ug/L			44	67	20	Standard
>	In-1	115		ug/L			7587	6853	1	KED
	Cd	111	0.200	ug/L	0.020	10	4	53	7	KED
	Cd	114	0.185	ug/L	0.031	16	1	119	14	KED
>	In	115		ug/L			519229	504230	4	Standard
	Ag	107	0.143	ug/L	0.009	6	33	2395	1	Standard
>	Tb	159		ug/L			190542	215455	1	Standard
	Pb	208	13.720	ug/L	0.338	2	524	1415046	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0108-02
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 00:08:08
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27881	43300	5	Standard
>	Sc	45		ug/L			600447	713310	1	Standard
	Cr	52	16.422	ug/L	0.161	0	10860	314787	1	Standard
	Cr	53	16.361	ug/L	0.435	2	113	35354	3	Standard
>	Ge	72		ug/L			35776	32638	0	KED
	Ni	60	15.409	ug/L	0.351	2	145	24305	2	KED
	Ni	62	15.069	ug/L	0.298	1	28	3813	1	KED
	Cu	63	38.928	ug/L	0.502	1	53	170861	0	KED
	Cu	65	39.033	ug/L	0.216	0	29	87953	1	KED
	Zn	66	75.753	ug/L	0.903	1	87	40958	1	KED
	Zn	67	73.795	ug/L	1.061	1	19	6499	1	KED
	As	75	8.223	ug/L	0.084	1	2	2154	0	KED
	Y	89		ug/L			55660	331620	1	Standard
	Kr	83		ug/L			44	85	5	Standard
>	In-1	115		ug/L			7587	7151	0	KED
	Cd	111	0.175	ug/L	0.028	15	4	49	14	KED
	Cd	114	0.189	ug/L	0.041	21	1	127	20	KED
>	In	115		ug/L			519229	494671	2	Standard
	Ag	107	0.155	ug/L	0.005	3	33	2553	5	Standard
>	Tb	159		ug/L			190542	226865	1	Standard
	Pb	208	15.700	ug/L	0.343	2	524	1704869	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBL9
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 00:12:34
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27881	26146	3	Standard
⌈>	**Sc**	**45**		ug/L			600447	573930	1	Standard
|	**Cr**	**52**	**-0.020**	ug/L	0.012	58	10860	10084	3	Standard
⌊	**Cr**	**53**	**-0.009**	ug/L	0.008	84	113	92	15	Standard
⌈>	**Ge**	**72**		ug/L			35776	32582	1	KED
|	**Ni**	**60**	**0.015**	ug/L	0.010	68	145	155	11	KED
|	**Ni**	**62**	**0.005**	ug/L	0.030	607	28	27	28	KED
|	**Cu**	**63**	**0.014**	ug/L	0.002	14	53	111	6	KED
|	**Cu**	**65**	**0.010**	ug/L	0.005	55	29	48	25	KED
|	**Zn**	**66**	**-0.030**	ug/L	0.021	69	87	63	16	KED
|	**Zn**	**67**	**-0.067**	ug/L	0.011	16	19	12	9	KED
⌊	**As**	**75**	**0.003**	ug/L	0.005	152	2	2	44	KED
	Y	**89**		ug/L			55660	54155	0	Standard
	Kr	**83**		ug/L			44	38	2	Standard
⌈>	**In-1**	**115**		ug/L			7587	6900	0	KED
|	**Cd**	**111**	**-0.012**	ug/L	0.002	17	4	0	86	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.002	101	1	0	207	KED
⌈>	**In**	**115**		ug/L			519229	511559	0	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.000	5	33	10	10	Standard
⌈>	**Tb**	**159**		ug/L			190542	194216	1	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	31	524	634	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVA
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 00:16:59
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27881	25538	4	Standard
⌈>	**Sc**	**45**		ug/L			600447	594963	3	Standard
|	**Cr**	**52**	**50.178**	ug/L	0.793	1	10860	779879	1	Standard
⌊	**Cr**	**53**	**49.353**	ug/L	1.384	2	113	88670	0	Standard
⌈>	**Ge**	**72**		ug/L			35776	34074	1	KED
|	**Ni**	**60**	**48.680**	ug/L	0.968	1	145	79858	2	KED
|	**Ni**	**62**	**47.611**	ug/L	0.229	0	28	12521	1	KED
|	**Cu**	**63**	**49.180**	ug/L	0.308	0	53	225338	1	KED
|	**Cu**	**65**	**48.634**	ug/L	0.916	1	29	114372	0	KED
|	**Zn**	**66**	**48.427**	ug/L	0.650	1	87	27362	1	KED
|	**Zn**	**67**	**50.458**	ug/L	2.031	4	19	4643	2	KED
⌊	**As**	**75**	**49.054**	ug/L	1.109	2	2	13404	0	KED
	Y	**89**		ug/L			55660	54653	1	Standard
	Kr	**83**		ug/L			44	55	9	Standard
⌈>	**In-1**	**115**		ug/L			7587	7138	3	KED
|	**Cd**	**111**	**49.973**	ug/L	2.395	4	4	12921	0	KED
⌊	**Cd**	**114**	**49.890**	ug/L	1.571	3	1	33197	1	KED
⌈>	**In**	**115**		ug/L			519229	506488	1	Standard
⌊	**Ag**	**107**	**48.935**	ug/L	1.204	2	33	815045	1	Standard
⌈>	**Tb**	**159**		ug/L			190542	196385	0	Standard
⌊	**Pb**	**208**	**51.586**	ug/L	0.606	1	524	4848875	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBA
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 00:24:09
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27881	25562	4	Standard
⌈>	**Sc**	**45**		ug/L			600447	584484	0	Standard
|	**Cr**	**52**	**-0.033**	ug/L	0.013	38	10860	10071	2	Standard
⌊	**Cr**	**53**	**-0.008**	ug/L	0.004	52	113	96	8	Standard
⌈>	**Ge**	**72**		ug/L			35776	33932	0	KED
|	**Ni**	**60**	**-0.017**	ug/L	0.007	39	145	109	9	KED
|	**Ni**	**62**	**-0.031**	ug/L	0.030	96	28	19	40	KED
|	**Cu**	**63**	**0.003**	ug/L	0.001	48	53	64	10	KED
|	**Cu**	**65**	**0.004**	ug/L	0.003	56	29	38	15	KED
|	**Zn**	**66**	**-0.058**	ug/L	0.002	3	87	50	2	KED
|	**Zn**	**67**	**-0.135**	ug/L	0.031	23	19	6	45	KED
⌊	**As**	**75**	**0.007**	ug/L	0.004	63	2	3	30	KED
	Y	**89**		ug/L			55660	54405	2	Standard
	Kr	**83**		ug/L			44	37	28	Standard
⌈>	**In-1**	**115**		ug/L			7587	7340	1	KED
|	**Cd**	**111**	**-0.008**	ug/L	0.006	81	4	1	86	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.002	175	1	2	47	KED
⌈>	**In**	**115**		ug/L			519229	506728	1	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.001	46	33	59	22	Standard
⌈>	**Tb**	**159**		ug/L			190542	195679	1	Standard
⌊	**Pb**	**208**	**0.002**	ug/L	0.000	5	524	691	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0108-06
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 00:28:35
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27881	42152	3	Standard
⌈>	Sc	45		ug/L			600447	701617	2	Standard
|	Cr	52	13.784	ug/L	0.159	1	10860	261945	2	Standard
⌊	Cr	53	13.824	ug/L	0.149	1	113	29404	2	Standard
⌈>	Ge	72		ug/L			35776	33631	1	KED
|	Ni	60	11.683	ug/L	0.169	1	145	19022	2	KED
|	Ni	62	11.656	ug/L	0.112	0	28	3046	0	KED
|	Cu	63	32.720	ug/L	0.427	1	53	147993	1	KED
|	Cu	65	32.727	ug/L	0.710	2	29	75985	2	KED
|	Zn	66	58.096	ug/L	1.862	3	87	32377	1	KED
|	Zn	67	57.353	ug/L	1.009	1	19	5208	1	KED
⌊	As	75	8.068	ug/L	0.212	2	2	2178	2	KED
	Y	89		ug/L			55660	268399	1	Standard
	Kr	83		ug/L			44	84	7	Standard
⌈>	In-1	115		ug/L			7587	7254	0	KED
|	Cd	111	0.183	ug/L	0.012	6	4	52	5	KED
⌊	Cd	114	0.196	ug/L	0.027	13	1	134	13	KED
⌈>	In	115		ug/L			519229	505482	0	Standard
⌊	Ag	107	0.143	ug/L	0.008	5	33	2409	6	Standard
⌈>	Tb	159		ug/L			190542	222718	0	Standard
⌊	Pb	208	13.876	ug/L	0.125	0	524	1479618	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0108-07
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 00:32:59
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
C	13		ug/L			27881	40027	8	Standard
Sc	45		ug/L			600447	698775	1	Standard
Cr	52	14.213	ug/L	0.080	0	10860	268577	1	Standard
Cr	53	14.164	ug/L	0.155	1	113	30003	2	Standard
Ge	72		ug/L			35776	33832	0	KED
Ni	60	11.465	ug/L	0.137	1	145	18781	0	KED
Ni	62	11.563	ug/L	0.199	1	28	3040	2	KED
Cu	63	33.675	ug/L	0.564	1	53	153215	1	KED
Cu	65	32.656	ug/L	0.151	0	29	76276	0	KED
Zn	66	57.957	ug/L	1.470	2	87	32501	2	KED
Zn	67	55.816	ug/L	1.269	2	19	5099	1	KED
As	75	8.291	ug/L	0.137	1	2	2251	1	KED
Y	89		ug/L			55660	265350	3	Standard
Kr	83		ug/L			44	74	5	Standard
In-1	115		ug/L			7587	7022	2	KED
Cd	111	0.241	ug/L	0.056	23	4	65	23	KED
Cd	114	0.248	ug/L	0.041	16	1	163	15	KED
In	115		ug/L			519229	507693	0	Standard
Ag	107	0.154	ug/L	0.006	3	33	2596	4	Standard
Tb	159		ug/L			190542	218126	0	Standard
Pb	208	14.843	ug/L	0.185	1	524	1550062	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0108-08
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 00:37:25
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27881	38717	0	Standard
⌈>	Sc	45		ug/L			600447	703681	1	Standard
|	Cr	52	13.446	ug/L	0.155	1	10860	256553	0	Standard
⌊	Cr	53	13.362	ug/L	0.125	0	113	28507	1	Standard
⌈>	Ge	72		ug/L			35776	33183	1	KED
|	Ni	60	12.093	ug/L	0.381	3	145	19417	2	KED
|	Ni	62	12.156	ug/L	0.093	0	28	3133	2	KED
|	Cu	63	28.972	ug/L	0.594	2	53	129274	0	KED
|	Cu	65	28.921	ug/L	0.252	0	29	66254	0	KED
|	Zn	66	56.544	ug/L	1.297	2	87	31099	1	KED
|	Zn	67	56.684	ug/L	1.162	2	19	5079	1	KED
⌊	As	75	6.999	ug/L	0.103	1	2	1864	1	KED
	Y	89		ug/L			55660	267168	0	Standard
	Kr	83		ug/L			44	76	8	Standard
⌈>	In-1	115		ug/L			7587	6892	3	KED
|	Cd	111	0.172	ug/L	0.019	11	4	46	9	KED
⌊	Cd	114	0.224	ug/L	0.026	11	1	145	14	KED
⌈>	In	115		ug/L			519229	502886	1	Standard
⌊	Ag	107	0.124	ug/L	0.000	0	33	2079	1	Standard
⌈>	Tb	159		ug/L			190542	220269	0	Standard
⌊	Pb	208	11.496	ug/L	0.252	2	524	1212380	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23C0108-09
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 00:41:50
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27881	36163	3	Standard
>	Sc	45		ug/L			600447	675390	2	Standard
	Cr	52	11.612	ug/L	0.348	2	10860	214261	1	Standard
	Cr	53	11.687	ug/L	0.277	2	113	23940	1	Standard
>	Ge	72		ug/L			35776	33264	0	KED
	Ni	60	9.904	ug/L	0.159	1	145	15969	1	KED
	Ni	62	9.757	ug/L	0.454	4	28	2526	4	KED
	Cu	63	26.785	ug/L	0.607	2	53	119830	1	KED
	Cu	65	26.312	ug/L	0.547	2	29	60427	1	KED
	Zn	66	52.519	ug/L	0.742	1	87	28964	0	KED
	Zn	67	51.518	ug/L	2.705	5	19	4630	5	KED
	As	75	6.060	ug/L	0.120	1	2	1618	1	KED
	Y	89		ug/L			55660	234210	0	Standard
	Kr	83		ug/L			44	67	25	Standard
>	In-1	115		ug/L			7587	7065	1	KED
	Cd	111	0.155	ug/L	0.017	10	4	43	10	KED
	Cd	114	0.153	ug/L	0.016	10	1	102	11	KED
>	In	115		ug/L			519229	505119	2	Standard
	Ag	107	0.108	ug/L	0.003	3	33	1821	3	Standard
>	Tb	159		ug/L			190542	217502	2	Standard
	Pb	208	10.645	ug/L	0.144	1	524	1108469	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0008-01
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 00:46:09
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27881	36904	6	Standard
⌈>	Sc	45		ug/L			600447	658482	8	Standard
|	Cr	52	13.364	ug/L	1.275	9	10860	237528	1	Standard
⌊	Cr	53	13.224	ug/L	1.165	8	113	26285	3	Standard
⌈>	Ge	72		ug/L			35776	33385	1	KED
|	Ni	60	11.756	ug/L	0.301	2	145	18995	0	KED
|	Ni	62	11.718	ug/L	0.482	4	28	3038	2	KED
|	Cu	63	26.959	ug/L	0.285	1	53	121042	0	KED
|	Cu	65	26.749	ug/L	0.537	2	29	61646	0	KED
|	Zn	66	95.776	ug/L	0.264	0	87	52948	1	KED
|	Zn	67	93.257	ug/L	3.356	3	19	8393	2	KED
⌊	As	75	5.155	ug/L	0.087	1	2	1382	0	KED
	Y	89		ug/L			55660	267607	3	Standard
	Kr	83		ug/L			44	82	18	Standard
⌈>	In-1	115		ug/L			7587	7025	1	KED
|	Cd	111	0.159	ug/L	0.028	17	4	44	17	KED
⌊	Cd	114	0.164	ug/L	0.003	1	1	109	1	KED
⌈>	In	115		ug/L			519229	476583	10	Standard
⌊	Ag	107	0.109	ug/L	0.012	10	33	1730	1	Standard
⌈>	Tb	159		ug/L			190542	212482	8	Standard
⌊	Pb	208	11.065	ug/L	1.013	9	524	1119922	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0008-03
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 00:50:34
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27881	35181	3	Standard
⌈>	Sc	45		ug/L			600447	694840	0	Standard
|	Cr	52	12.759	ug/L	0.166	1	10860	241055	1	Standard
⌊	Cr	53	12.803	ug/L	0.260	2	113	26979	2	Standard
⌈>	Ge	72		ug/L			35776	32911	1	KED
|	Ni	60	11.463	ug/L	0.048	0	145	18267	0	KED
|	Ni	62	11.716	ug/L	0.618	5	28	2995	5	KED
|	Cu	63	30.419	ug/L	0.228	0	53	134653	1	KED
|	Cu	65	30.125	ug/L	0.324	1	29	68448	1	KED
|	Zn	66	63.456	ug/L	1.666	2	87	34603	1	KED
|	Zn	67	61.360	ug/L	1.215	1	19	5452	2	KED
⌊	As	75	6.807	ug/L	0.171	2	2	1798	1	KED
	Y	89		ug/L			55660	270124	3	Standard
	Kr	83		ug/L			44	94	9	Standard
⌈>	In-1	115		ug/L			7587	7021	2	KED
|	Cd	111	0.179	ug/L	0.037	20	4	49	17	KED
⌊	Cd	114	0.173	ug/L	0.024	14	1	114	16	KED
⌈>	In	115		ug/L			519229	499685	2	Standard
⌊	Ag	107	0.116	ug/L	0.008	6	33	1932	4	Standard
⌈>	Tb	159		ug/L			190542	221804	0	Standard
⌊	Pb	208	11.749	ug/L	0.083	0	524	1247680	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0037-01
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 00:54:53
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27881	37636	5	Standard
>	Sc	45		ug/L			600447	685486	0	Standard
	Cr	52	16.521	ug/L	0.526	3	10860	304236	2	Standard
	Cr	53	16.594	ug/L	0.435	2	113	34456	2	Standard
>	Ge	72		ug/L			35776	32742	0	KED
	Ni	60	12.901	ug/L	0.250	1	145	20434	1	KED
	Ni	62	12.820	ug/L	0.316	2	28	3258	1	KED
	Cu	63	32.180	ug/L	0.702	2	53	141691	1	KED
	Cu	65	32.801	ug/L	0.389	1	29	74144	0	KED
	Zn	66	71.544	ug/L	1.069	1	87	38808	0	KED
	Zn	67	69.189	ug/L	1.002	1	19	6114	2	KED
	As	75	7.614	ug/L	0.071	0	2	2001	1	KED
	Y	89		ug/L			55660	259985	1	Standard
	Kr	83		ug/L			44	85	9	Standard
>	In-1	115		ug/L			7587	7023	1	KED
	Cd	111	0.137	ug/L	0.009	6	4	38	7	KED
	Cd	114	0.144	ug/L	0.012	8	1	95	6	KED
>	In	115		ug/L			519229	496722	1	Standard
	Ag	107	0.113	ug/L	0.004	3	33	1883	2	Standard
>	Tb	159		ug/L			190542	218818	0	Standard
	Pb	208	17.415	ug/L	0.324	1	524	1824272	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0037-03
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 00:59:18
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			27881	37582	3	Standard
⌈>	Sc	45		ug/L			600447	669281	2	Standard
|	Cr	52	22.029	ug/L	0.384	1	10860	392004	2	Standard
⌊	Cr	53	21.690	ug/L	0.339	1	113	43926	1	Standard
⌈>	Ge	72		ug/L			35776	32667	2	KED
|	Ni	60	18.945	ug/L	0.600	3	145	29864	0	KED
|	Ni	62	18.494	ug/L	0.363	1	28	4678	1	KED
|	Cu	63	103.407	ug/L	2.883	2	53	454006	0	KED
|	Cu	65	102.730	ug/L	1.556	1	29	231623	2	KED
|	Zn	66	178.533	ug/L	4.616	2	87	96485	2	KED
|	Zn	67	170.011	ug/L	2.949	1	19	14964	3	KED
⌊	As	75	16.375	ug/L	0.240	1	2	4291	1	KED
	Y	89		ug/L			55660	241132	1	Standard
	Kr	83		ug/L			44	73	26	Standard
⌈>	In-1	115		ug/L			7587	6780	0	KED
|	Cd	111	0.418	ug/L	0.049	11	4	106	10	KED
⌊	Cd	114	0.454	ug/L	0.060	13	1	288	12	KED
⌈>	In	115		ug/L			519229	502468	3	Standard
⌊	Ag	107	0.118	ug/L	0.002	1	33	1979	1	Standard
⌈>	Tb	159		ug/L			190542	213368	0	Standard
⌊	Pb	208	48.910	ug/L	0.730	1	524	4994590	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0037-02
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 01:03:43
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27881	42891	2	Standard
⌈>	**Sc**	**45**		ug/L			600447	690386	1	Standard
|	**Cr**	**52**	**15.879**	ug/L	0.081	0	10860	295013	1	Standard
⌊	**Cr**	**53**	**15.797**	ug/L	0.231	1	113	33044	2	Standard
⌈>	**Ge**	**72**		ug/L			35776	32570	1	KED
|	**Ni**	**60**	**15.329**	ug/L	0.559	3	145	24120	2	KED
|	**Ni**	**62**	**15.503**	ug/L	0.390	2	28	3914	1	KED
|	**Cu**	**63**	**35.760**	ug/L	0.959	2	53	156594	1	KED
|	**Cu**	**65**	**34.988**	ug/L	0.447	1	29	78674	2	KED
|	**Zn**	**66**	**81.273**	ug/L	1.022	1	87	43842	1	KED
|	**Zn**	**67**	**78.630**	ug/L	2.118	2	19	6908	1	KED
⌊	**As**	**75**	**6.077**	ug/L	0.117	1	2	1589	0	KED
	Y	**89**		ug/L			55660	293531	0	Standard
	Kr	**83**		ug/L			44	81	11	Standard
⌈>	**In-1**	**115**		ug/L			7587	6877	0	KED
|	**Cd**	**111**	**0.163**	ug/L	0.024	14	4	44	14	KED
⌊	**Cd**	**114**	**0.184**	ug/L	0.033	18	1	119	17	KED
⌈>	**In**	**115**		ug/L			519229	497287	2	Standard
⌊	**Ag**	**107**	**0.123**	ug/L	0.006	4	33	2042	6	Standard
⌈>	**Tb**	**159**		ug/L			190542	220337	0	Standard
⌊	**Pb**	**208**	**18.272**	ug/L	0.349	1	524	1927197	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLA
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 01:08:09
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27881	24843	3	Standard
⌈>	**Sc**	**45**		ug/L			600447	570538	2	Standard
|	**Cr**	**52**	**-0.031**	ug/L	0.013	43	10860	9866	1	Standard
⌊	**Cr**	**53**	**-0.012**	ug/L	0.015	128	113	86	27	Standard
⌈>	**Ge**	**72**		ug/L			35776	32250	0	KED
|	**Ni**	**60**	**0.020**	ug/L	0.011	56	145	161	10	KED
|	**Ni**	**62**	**0.016**	ug/L	0.016	99	28	29	13	KED
|	**Cu**	**63**	**0.008**	ug/L	0.002	30	53	81	12	KED
|	**Cu**	**65**	**0.004**	ug/L	0.004	103	29	34	24	KED
|	**Zn**	**66**	**-0.028**	ug/L	0.030	106	87	64	25	KED
|	**Zn**	**67**	**-0.109**	ug/L	0.034	30	19	8	35	KED
⌊	**As**	**75**	**0.001**	ug/L	0.002	122	2	2	20	KED
	Y	**89**		ug/L			55660	53022	1	Standard
	Kr	**83**		ug/L			44	46	24	Standard
⌈>	**In-1**	**115**		ug/L			7587	6858	1	KED
|	**Cd**	**111**	**-0.010**	ug/L	0.009	88	4	1	173	KED
⌊	**Cd**	**114**	**0.000**	ug/L	0.003	915	1	1	106	KED
⌈>	**In**	**115**		ug/L			519229	507926	2	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.000	23	33	12	37	Standard
⌈>	**Tb**	**159**		ug/L			190542	192482	2	Standard
⌊	**Pb**	**208**	**0.004**	ug/L	0.004	126	524	860	50	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVB
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 01:12:34
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27881	24688	5	Standard
⌈>	**Sc**	**45**		ug/L			600447	587821	1	Standard
|	**Cr**	**52**	**50.267**	ug/L	0.836	1	10860	772260	3	Standard
⌊	**Cr**	**53**	**49.039**	ug/L	1.119	2	113	87116	3	Standard
⌈>	**Ge**	**72**		ug/L			35776	33250	0	KED
|	**Ni**	**60**	**48.819**	ug/L	0.971	1	145	78156	1	KED
|	**Ni**	**62**	**48.209**	ug/L	1.520	3	28	12372	2	KED
|	**Cu**	**63**	**49.620**	ug/L	0.752	1	53	221871	1	KED
|	**Cu**	**65**	**48.668**	ug/L	0.371	0	29	111709	0	KED
|	**Zn**	**66**	**50.023**	ug/L	1.122	2	87	27580	1	KED
|	**Zn**	**67**	**49.741**	ug/L	2.604	5	19	4468	4	KED
⌊	**As**	**75**	**49.558**	ug/L	0.239	0	2	13218	0	KED
	Y	**89**		ug/L			55660	53986	1	Standard
	Kr	**83**		ug/L			44	40	28	Standard
⌈>	**In-1**	**115**		ug/L			7587	7116	3	KED
|	**Cd**	**111**	**48.527**	ug/L	2.801	5	4	12510	3	KED
⌊	**Cd**	**114**	**48.916**	ug/L	3.450	7	1	32427	4	KED
⌈>	**In**	**115**		ug/L			519229	497812	2	Standard
⌊	**Ag**	**107**	**48.787**	ug/L	0.812	1	33	798652	0	Standard
⌈>	**Tb**	**159**		ug/L			190542	199063	0	Standard
⌊	**Pb**	**208**	**51.680**	ug/L	0.781	1	524	4923450	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBB
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 01:19:44
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			27881	24490	0	Standard
⌈>	**Sc**	**45**		ug/L			600447	572095	1	Standard
|	**Cr**	**52**	**-0.016**	ug/L	0.007	47	10860	10114	2	Standard
⌊	**Cr**	**53**	**-0.010**	ug/L	0.005	52	113	90	10	Standard
⌈>	**Ge**	**72**		ug/L			35776	33107	1	KED
|	**Ni**	**60**	**-0.019**	ug/L	0.017	93	145	104	25	KED
|	**Ni**	**62**	**-0.036**	ug/L	0.021	57	28	17	29	KED
|	**Cu**	**63**	**0.007**	ug/L	0.003	36	53	81	14	KED
|	**Cu**	**65**	**0.011**	ug/L	0.011	102	29	50	46	KED
|	**Zn**	**66**	**-0.055**	ug/L	0.037	66	87	50	38	KED
|	**Zn**	**67**	**-0.111**	ug/L	0.077	68	19	8	81	KED
⌊	**As**	**75**	**0.006**	ug/L	0.002	30	2	3	15	KED
	Y	**89**		ug/L			55660	53252	4	Standard
	Kr	**83**		ug/L			44	46	16	Standard
⌈>	**In-1**	**115**		ug/L			7587	7049	3	KED
|	**Cd**	**111**	**-0.011**	ug/L	0.007	58	4	0	173	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.002	226	1	1	94	KED
⌈>	**In**	**115**		ug/L			519229	500651	2	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.001	50	33	55	22	Standard
⌈>	**Tb**	**159**		ug/L			190542	194761	1	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.000	22	524	665	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 01:24:09
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				23951	1	Standard
⌈>	**Sc**	**45**		ug/L				579638	2	Standard
|	**Cr**	**52**		ug/L				10138	1	Standard
⌊	**Cr**	**53**		ug/L				92	13	Standard
⌈>	**Ge**	**72**		ug/L				33052	2	KED
|	**Ni**	**60**		ug/L				97	25	KED
|	**Ni**	**62**		ug/L				15	49	KED
|	**Cu**	**63**		ug/L				198	57	KED
|	**Cu**	**65**		ug/L				107	77	KED
|	**Zn**	**66**		ug/L				67	36	KED
|	**Zn**	**67**		ug/L				15	13	KED
⌊	**As**	**75**		ug/L				4	114	KED
	Y	**89**		ug/L				53627	1	Standard
	Kr	**83**		ug/L				34	20	Standard
⌈>	**In-1**	**115**		ug/L				7114	5	KED
|	**Cd**	**111**		ug/L				2	24	KED
⌊	**Cd**	**114**		ug/L				0	293	KED
⌈>	**In**	**115**		ug/L				522018	2	Standard
⌊	**Ag**	**107**		ug/L				24	23	Standard
⌈>	**Tb**	**159**		ug/L				194588	1	Standard
⌊	**Pb**	**208**		ug/L				589	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVC
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 01:28:35
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23951	24643	4	Standard
⌈>	**Sc**	**45**		ug/L			579638	604497	1	Standard
|	**Cr**	**52**	**48.978**	ug/L	0.531	1	10138	773644	2	Standard
⌊	**Cr**	**53**	**48.354**	ug/L	0.493	1	92	88313	2	Standard
⌈>	**Ge**	**72**		ug/L			33052	33370	0	KED
|	**Ni**	**60**	**49.324**	ug/L	1.040	2	97	79207	1	KED
|	**Ni**	**62**	**47.977**	ug/L	1.281	2	15	12345	1	KED
|	**Cu**	**63**	**49.978**	ug/L	1.244	2	198	224398	1	KED
|	**Cu**	**65**	**48.605**	ug/L	0.688	1	107	112041	0	KED
|	**Zn**	**66**	**50.089**	ug/L	0.902	1	67	27704	1	KED
|	**Zn**	**67**	**50.597**	ug/L	2.408	4	15	4559	4	KED
⌊	**As**	**75**	**49.659**	ug/L	1.424	2	4	13295	2	KED
	Y	**89**		ug/L			53627	55035	2	Standard
	Kr	**83**		ug/L			34	50	21	Standard
⌈>	**In-1**	**115**		ug/L			7114	7142	0	KED
|	**Cd**	**111**	**49.790**	ug/L	0.467	0	2	12894	1	KED
⌊	**Cd**	**114**	**49.917**	ug/L	0.583	1	0	33256	1	KED
⌈>	**In**	**115**		ug/L			522018	505738	4	Standard
⌊	**Ag**	**107**	**48.105**	ug/L	1.906	3	24	799289	0	Standard
⌈>	**Tb**	**159**		ug/L			194588	199862	1	Standard
⌊	**Pb**	**208**	**51.228**	ug/L	1.038	2	589	4900055	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBC
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 01:35:45
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23951	24390	5	Standard
⌈>	**Sc**	**45**		ug/L			579638	570057	2	Standard
|	**Cr**	**52**	**0.018**	ug/L	0.030	170	10138	10227	2	Standard
⌊	**Cr**	**53**	**-0.003**	ug/L	0.005	170	92	86	11	Standard
⌈>	**Ge**	**72**		ug/L			33052	34200	3	KED
|	**Ni**	**60**	**0.005**	ug/L	0.011	211	97	109	18	KED
|	**Ni**	**62**	**-0.016**	ug/L	0.016	101	15	12	32	KED
|	**Cu**	**63**	**-0.017**	ug/L	0.005	27	198	128	14	KED
|	**Cu**	**65**	**-0.024**	ug/L	0.005	19	107	55	15	KED
|	**Zn**	**66**	**-0.023**	ug/L	0.025	111	67	57	28	KED
|	**Zn**	**67**	**-0.062**	ug/L	0.046	74	15	10	40	KED
⌊	**As**	**75**	**-0.005**	ug/L	0.005	104	4	3	37	KED
	Y	**89**		ug/L			53627	53691	4	Standard
	Kr	**83**		ug/L			34	40	9	Standard
⌈>	**In-1**	**115**		ug/L			7114	7219	0	KED
|	**Cd**	**111**	**-0.004**	ug/L	0.006	147	2	1	114	KED
⌊	**Cd**	**114**	**0.000**	ug/L	0.002	907	0	0	218	KED
⌈>	**In**	**115**		ug/L			522018	508569	2	Standard
⌊	**Ag**	**107**	**0.003**	ug/L	0.001	30	24	77	18	Standard
⌈>	**Tb**	**159**		ug/L			194588	192635	1	Standard
⌊	**Pb**	**208**	**0.001**	ug/L	0.001	55	589	699	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0037-04
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 01:40:10
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23951	37083	2	Standard
⌈>	**Sc**	**45**		ug/L			579638	666315	2	Standard
|	**Cr**	**52**	**14.778**	ug/L	0.414	2	10138	265352	2	Standard
⌊	**Cr**	**53**	**14.846**	ug/L	0.408	2	92	29949	2	Standard
⌈>	**Ge**	**72**		ug/L			33052	33256	2	KED
|	**Ni**	**60**	**13.070**	ug/L	0.294	2	97	20983	0	KED
|	**Ni**	**62**	**13.519**	ug/L	0.640	4	15	3476	2	KED
|	**Cu**	**63**	**33.896**	ug/L	0.667	1	198	151715	0	KED
|	**Cu**	**65**	**34.294**	ug/L	1.367	3	107	78776	1	KED
|	**Zn**	**66**	**78.001**	ug/L	1.335	1	67	42946	0	KED
|	**Zn**	**67**	**76.310**	ug/L	3.075	4	15	6841	2	KED
⌊	**As**	**75**	**7.516**	ug/L	0.211	2	4	2008	1	KED
	Y	**89**		ug/L			53627	253479	2	Standard
	Kr	**83**		ug/L			34	67	14	Standard
⌈>	**In-1**	**115**		ug/L			7114	7022	2	KED
|	**Cd**	**111**	**0.173**	ug/L	0.026	14	2	46	15	KED
⌊	**Cd**	**114**	**0.168**	ug/L	0.032	19	0	110	19	KED
⌈>	**In**	**115**		ug/L			522018	501570	2	Standard
⌊	**Ag**	**107**	**0.124**	ug/L	0.008	6	24	2072	3	Standard
⌈>	**Tb**	**159**		ug/L			194588	216254	2	Standard
⌊	**Pb**	**208**	**24.655**	ug/L	0.542	2	589	2551303	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0063-01
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 01:44:35
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			23951	36093	5	Standard
⌈>	Sc	45		ug/L			579638	675816	1	Standard
|	Cr	52	12.093	ug/L	0.292	2	10138	222478	3	Standard
⌊	Cr	53	11.925	ug/L	0.087	0	92	24429	1	Standard
⌈>	Ge	72		ug/L			33052	32692	0	KED
|	Ni	60	10.569	ug/L	0.056	0	97	16704	0	KED
|	Ni	62	10.693	ug/L	0.267	2	15	2708	2	KED
|	Cu	63	28.415	ug/L	0.362	1	198	125086	0	KED
|	Cu	65	27.586	ug/L	0.411	1	107	62347	1	KED
|	Zn	66	54.295	ug/L	1.764	3	67	29412	2	KED
|	Zn	67	54.009	ug/L	0.750	1	15	4767	0	KED
⌊	As	75	6.145	ug/L	0.125	2	4	1615	1	KED
	Y	89		ug/L			53627	247657	1	Standard
	Kr	83		ug/L			34	70	10	Standard
⌈>	In-1	115		ug/L			7114	6869	3	KED
|	Cd	111	0.128	ug/L	0.034	26	2	33	26	KED
⌊	Cd	114	0.143	ug/L	0.032	22	0	91	23	KED
⌈>	In	115		ug/L			522018	498017	1	Standard
⌊	Ag	107	0.114	ug/L	0.004	3	24	1886	1	Standard
⌈>	Tb	159		ug/L			194588	218860	2	Standard
⌊	Pb	208	11.885	ug/L	0.301	2	589	1244967	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0063-03
Sample Dil Factor: 20
Comments:
Sample Date/Time: Thursday, May 11, 2023 01:49:00
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			23951	35499	1	Standard
⌈>	Sc	45		ug/L			579638	667168	1	Standard
|	Cr	52	12.476	ug/L	0.197	1	10138	226180	1	Standard
⌊	Cr	53	12.216	ug/L	0.084	0	92	24701	1	Standard
⌈>	Ge	72		ug/L			33052	32239	3	KED
|	Ni	60	10.330	ug/L	0.214	2	97	16096	1	KED
|	Ni	62	10.576	ug/L	0.168	1	15	2640	2	KED
|	Cu	63	29.293	ug/L	0.285	0	198	127139	2	KED
|	Cu	65	28.863	ug/L	0.751	2	107	64290	0	KED
|	Zn	66	56.772	ug/L	2.696	4	67	30296	1	KED
|	Zn	67	55.840	ug/L	3.137	5	15	4854	2	KED
⌊	As	75	7.812	ug/L	0.264	3	4	2022	1	KED
	Y	89		ug/L			53627	245815	2	Standard
	Kr	83		ug/L			34	64	9	Standard
⌈>	In-1	115		ug/L			7114	6861	2	KED
|	Cd	111	0.175	ug/L	0.040	22	2	45	19	KED
⌊	Cd	114	0.161	ug/L	0.030	18	0	103	17	KED
⌈>	In	115		ug/L			522018	506848	1	Standard
⌊	Ag	107	0.117	ug/L	0.005	4	24	1968	5	Standard
⌈>	Tb	159		ug/L			194588	214654	2	Standard
⌊	Pb	208	11.626	ug/L	0.374	3	589	1194319	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0452-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Thursday, May 11, 2023 01:53:19
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23951	105848	5	Standard
⌈>	**Sc**	**45**		ug/L			579638	461044	2	Standard
|	**Cr**	**52**	**2.573**	ug/L	0.016	0	10138	38630	2	Standard
⌊	**Cr**	**53**	**2.140**	ug/L	0.084	3	92	3048	1	Standard
⌈>	**Ge**	**72**		ug/L			33052	25757	1	KED
|	**Ni**	**60**	**3.973**	ug/L	0.094	2	97	4995	2	KED
|	**Ni**	**62**	**3.970**	ug/L	0.157	3	15	800	4	KED
|	**Cu**	**63**	**0.400**	ug/L	0.004	1	198	1539	0	KED
|	**Cu**	**65**	**0.392**	ug/L	0.035	8	107	780	7	KED
|	**Zn**	**66**	**2.796**	ug/L	0.241	8	67	1243	8	KED
|	**Zn**	**67**	**2.790**	ug/L	0.296	10	15	205	9	KED
⌊	**As**	**75**	**0.134**	ug/L	0.017	12	4	31	10	KED
	Y	**89**		ug/L			53627	44123	1	Standard
	Kr	**83**		ug/L			34	34	27	Standard
⌈>	**In-1**	**115**		ug/L			7114	5449	7	KED
|	**Cd**	**111**	**0.033**	ug/L	0.004	11	2	8	13	KED
⌊	**Cd**	**114**	**0.026**	ug/L	0.009	35	0	13	39	KED
⌈>	**In**	**115**		ug/L			522018	421633	1	Standard
⌊	**Ag**	**107**	**0.004**	ug/L	0.005	111	24	76	82	Standard
⌈>	**Tb**	**159**		ug/L			194588	165473	1	Standard
⌊	**Pb**	**208**	**0.040**	ug/L	0.001	1	589	3659	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0462-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Thursday, May 11, 2023 01:58:08
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23951	27229	5	Standard
⌈>	**Sc**	**45**		ug/L			579638	536374	1	Standard
|	**Cr**	**52**	**0.130**	ug/L	0.034	26	10138	11176	4	Standard
⌊	**Cr**	**53**	**0.395**	ug/L	0.027	6	92	725	7	Standard
⌈>	**Ge**	**72**		ug/L			33052	27488	2	KED
|	**Ni**	**60**	**1.680**	ug/L	0.028	1	97	2301	2	KED
|	**Ni**	**62**	**1.689**	ug/L	0.045	2	15	370	1	KED
|	**Cu**	**63**	**0.581**	ug/L	0.032	5	198	2311	3	KED
|	**Cu**	**65**	**0.564**	ug/L	0.036	6	107	1158	5	KED
|	**Zn**	**66**	**1.179**	ug/L	0.101	8	67	591	5	KED
|	**Zn**	**67**	**1.938**	ug/L	0.261	13	15	156	14	KED
⌊	**As**	**75**	**0.362**	ug/L	0.010	2	4	83	0	KED
	Y	**89**		ug/L			53627	49793	3	Standard
	Kr	**83**		ug/L			34	47	16	Standard
⌈>	**In-1**	**115**		ug/L			7114	5876	2	KED
|	**Cd**	**111**	**0.015**	ug/L	0.008	49	2	5	28	KED
⌊	**Cd**	**114**	**0.019**	ug/L	0.008	42	0	10	38	KED
⌈>	**In**	**115**		ug/L			522018	482911	0	Standard
⌊	**Ag**	**107**	**0.000**	ug/L	0.000	276	24	24	20	Standard
⌈>	**Tb**	**159**		ug/L			194588	180457	1	Standard
⌊	**Pb**	**208**	**0.029**	ug/L	0.001	2	589	3029	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23E0135-01
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 02:03:57
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23951	37969	3	Standard
⌈>	**Sc**	**45**		ug/L			579638	547722	2	Standard
|	**Cr**	**52**	**0.714**	ug/L	0.028	3	10138	19664	2	Standard
⌊	**Cr**	**53**	**0.678**	ug/L	0.015	2	92	1207	0	Standard
⌈>	**Ge**	**72**		ug/L			33052	30087	2	KED
|	**Ni**	**60**	**0.612**	ug/L	0.033	5	97	975	6	KED
|	**Ni**	**62**	**0.639**	ug/L	0.038	5	15	162	7	KED
|	**Cu**	**63**	**5.288**	ug/L	0.088	1	198	21568	0	KED
|	**Cu**	**65**	**5.255**	ug/L	0.116	2	107	11007	0	KED
|	**Zn**	**66**	**140.941**	ug/L	1.920	1	67	70163	1	KED
|	**Zn**	**67**	**133.083**	ug/L	3.879	2	15	10786	2	KED
⌊	**As**	**75**	**1.106**	ug/L	0.012	1	4	270	1	KED
	Y	**89**		ug/L			53627	51171	1	Standard
	Kr	**83**		ug/L			34	71	15	Standard
⌈>	**In-1**	**115**		ug/L			7114	6329	1	KED
|	**Cd**	**111**	**0.112**	ug/L	0.013	12	2	27	12	KED
⌊	**Cd**	**114**	**0.097**	ug/L	0.002	2	0	57	2	KED
⌈>	**In**	**115**		ug/L			522018	493757	1	Standard
⌊	**Ag**	**107**	**0.009**	ug/L	0.001	7	24	170	6	Standard
⌈>	**Tb**	**159**		ug/L			194588	185755	1	Standard
⌊	**Pb**	**208**	**0.563**	ug/L	0.020	3	589	50598	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23E0135-02
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 02:08:22
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23951	36538	6	Standard
⌈>	**Sc**	**45**		ug/L			579638	578838	2	Standard
|	**Cr**	**52**	**0.519**	ug/L	0.007	1	10138	17866	2	Standard
⌊	**Cr**	**53**	**0.988**	ug/L	0.059	5	92	1818	5	Standard
⌈>	**Ge**	**72**		ug/L			33052	29808	1	KED
|	**Ni**	**60**	**0.569**	ug/L	0.017	2	97	904	3	KED
|	**Ni**	**62**	**0.530**	ug/L	0.027	5	15	135	3	KED
|	**Cu**	**63**	**3.554**	ug/L	0.126	3	198	14417	2	KED
|	**Cu**	**65**	**3.585**	ug/L	0.056	1	107	7470	0	KED
|	**Zn**	**66**	**2.359**	ug/L	0.068	2	67	1222	1	KED
|	**Zn**	**67**	**2.363**	ug/L	0.363	15	15	203	14	KED
⌊	**As**	**75**	**1.123**	ug/L	0.031	2	4	272	1	KED
	Y	**89**		ug/L			53627	59933	0	Standard
	Kr	**83**		ug/L			34	63	13	Standard
⌈>	**In-1**	**115**		ug/L			7114	6300	2	KED
|	**Cd**	**111**	**0.004**	ug/L	0.009	216	2	2	66	KED
⌊	**Cd**	**114**	**0.010**	ug/L	0.002	17	0	6	16	KED
⌈>	**In**	**115**		ug/L			522018	486907	0	Standard
⌊	**Ag**	**107**	**0.007**	ug/L	0.000	2	24	141	1	Standard
⌈>	**Tb**	**159**		ug/L			194588	189476	1	Standard
⌊	**Pb**	**208**	**0.205**	ug/L	0.005	2	589	19197	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23E0135-03
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 02:12:47
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23951	38119	4	Standard
⌈>	**Sc**	**45**		ug/L			579638	558704	1	Standard
|	**Cr**	**52**	**0.554**	ug/L	0.023	4	10138	17750	3	Standard
⌊	**Cr**	**53**	**0.562**	ug/L	0.027	4	92	1036	4	Standard
⌈>	**Ge**	**72**		ug/L			33052	30571	1	KED
|	**Ni**	**60**	**0.746**	ug/L	0.032	4	97	1186	2	KED
|	**Ni**	**62**	**0.744**	ug/L	0.118	15	15	189	14	KED
|	**Cu**	**63**	**5.766**	ug/L	0.128	2	198	23876	0	KED
|	**Cu**	**65**	**5.570**	ug/L	0.189	3	107	11848	2	KED
|	**Zn**	**66**	**60.188**	ug/L	2.507	4	67	30468	2	KED
|	**Zn**	**67**	**58.288**	ug/L	1.458	2	15	4810	3	KED
⌊	**As**	**75**	**0.270**	ug/L	0.016	6	4	70	6	KED
	Y	**89**		ug/L			53627	54774	3	Standard
	Kr	**83**		ug/L			34	70	10	Standard
⌈>	**In-1**	**115**		ug/L			7114	6555	0	KED
|	**Cd**	**111**	**0.049**	ug/L	0.020	40	2	13	34	KED
⌊	**Cd**	**114**	**0.048**	ug/L	0.005	9	0	29	9	KED
⌈>	**In**	**115**		ug/L			522018	515795	2	Standard
⌊	**Ag**	**107**	**0.008**	ug/L	0.001	14	24	168	11	Standard
⌈>	**Tb**	**159**		ug/L			194588	191287	1	Standard
⌊	**Pb**	**208**	**0.846**	ug/L	0.012	1	589	78051	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23E0135-04
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 02:17:12
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23951	38665	4	Standard
⌈>	**Sc**	**45**		ug/L			579638	566861	1	Standard
|	**Cr**	**52**	**0.728**	ug/L	0.010	1	10138	20546	2	Standard
⌊	**Cr**	**53**	**0.803**	ug/L	0.062	7	92	1465	8	Standard
⌈>	**Ge**	**72**		ug/L			33052	31153	1	KED
|	**Ni**	**60**	**1.149**	ug/L	0.046	3	97	1813	4	KED
|	**Ni**	**62**	**1.105**	ug/L	0.081	7	15	280	5	KED
|	**Cu**	**63**	**6.771**	ug/L	0.129	1	198	28541	0	KED
|	**Cu**	**65**	**6.596**	ug/L	0.167	2	107	14285	3	KED
|	**Zn**	**66**	**65.082**	ug/L	0.876	1	67	33581	0	KED
|	**Zn**	**67**	**61.094**	ug/L	4.276	6	15	5132	5	KED
⌊	**As**	**75**	**0.523**	ug/L	0.041	7	4	134	6	KED
	Y	**89**		ug/L			53627	59942	1	Standard
	Kr	**83**		ug/L			34	76	13	Standard
⌈>	**In-1**	**115**		ug/L			7114	6559	2	KED
|	**Cd**	**111**	**0.061**	ug/L	0.030	48	2	16	42	KED
⌊	**Cd**	**114**	**0.056**	ug/L	0.002	4	0	34	6	KED
⌈>	**In**	**115**		ug/L			522018	504265	0	Standard
⌊	**Ag**	**107**	**0.008**	ug/L	0.001	12	24	164	11	Standard
⌈>	**Tb**	**159**		ug/L			194588	192160	1	Standard
⌊	**Pb**	**208**	**2.595**	ug/L	0.038	1	589	239201	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLB
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 02:21:38
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23951	21544	3	Standard
⌈>	**Sc**	**45**		ug/L			579638	545161	2	Standard
|	**Cr**	**52**	**-0.044**	ug/L	0.022	49	10138	8919	2	Standard
⌊	**Cr**	**53**	**0.008**	ug/L	0.003	39	92	100	4	Standard
⌈>	**Ge**	**72**		ug/L			33052	30281	2	KED
|	**Ni**	**60**	**0.028**	ug/L	0.008	27	97	130	5	KED
|	**Ni**	**62**	**0.036**	ug/L	0.016	46	15	22	16	KED
|	**Cu**	**63**	**0.014**	ug/L	0.008	60	198	236	11	KED
|	**Cu**	**65**	**0.010**	ug/L	0.009	99	107	118	16	KED
|	**Zn**	**66**	**-0.013**	ug/L	0.015	120	67	55	13	KED
|	**Zn**	**67**	**-0.085**	ug/L	0.021	24	15	7	25	KED
⌊	**As**	**75**	**-0.007**	ug/L	0.006	79	4	2	60	KED
	Y	**89**		ug/L			53627	50064	2	Standard
	Kr	**83**		ug/L			34	67	16	Standard
⌈>	**In-1**	**115**		ug/L			7114	6136	0	KED
|	**Cd**	**111**	**-0.004**	ug/L	0.007	168	2	0	173	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.000	12	0	0	50	KED
⌈>	**In**	**115**		ug/L			522018	493408	1	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.000	30	24	7	66	Standard
⌈>	**Tb**	**159**		ug/L			194588	186807	0	Standard
⌊	**Pb**	**208**	**-0.000**	ug/L	0.000	396	589	558	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVD
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 02:26:03
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23951	21516	4	Standard
⌈>	**Sc**	**45**		ug/L			579638	550260	3	Standard
|	**Cr**	**52**	**49.898**	ug/L	0.736	1	10138	717062	2	Standard
⌊	**Cr**	**53**	**48.905**	ug/L	0.774	1	92	81286	2	Standard
⌈>	**Ge**	**72**		ug/L			33052	30601	1	KED
|	**Ni**	**60**	**49.258**	ug/L	1.105	2	97	72531	1	KED
|	**Ni**	**62**	**49.062**	ug/L	0.777	1	15	11579	2	KED
|	**Cu**	**63**	**50.423**	ug/L	1.755	3	198	207598	2	KED
|	**Cu**	**65**	**50.155**	ug/L	0.422	0	107	106033	2	KED
|	**Zn**	**66**	**51.110**	ug/L	1.440	2	67	25916	1	KED
|	**Zn**	**67**	**50.481**	ug/L	0.741	1	15	4171	0	KED
⌊	**As**	**75**	**49.333**	ug/L	0.457	0	4	12111	0	KED
	Y	**89**		ug/L			53627	51421	2	Standard
	Kr	**83**		ug/L			34	50	35	Standard
⌈>	**In-1**	**115**		ug/L			7114	6373	2	KED
|	**Cd**	**111**	**51.144**	ug/L	0.617	1	2	11817	1	KED
⌊	**Cd**	**114**	**51.111**	ug/L	1.372	2	0	30374	0	KED
⌈>	**In**	**115**		ug/L			522018	491126	0	Standard
⌊	**Ag**	**107**	**46.025**	ug/L	0.868	1	24	743507	2	Standard
⌈>	**Tb**	**159**		ug/L			194588	193039	1	Standard
⌊	**Pb**	**208**	**53.346**	ug/L	0.719	1	589	4928316	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBD
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 02:33:12
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23951	20958	3	Standard
⌈>	**Sc**	**45**		ug/L			579638	544844	3	Standard
|	**Cr**	**52**	**-0.036**	ug/L	0.007	18	10138	9030	2	Standard
⌊	**Cr**	**53**	**-0.008**	ug/L	0.008	108	92	73	17	Standard
⌈>	**Ge**	**72**		ug/L			33052	30925	2	KED
|	**Ni**	**60**	**0.009**	ug/L	0.032	345	97	106	47	KED
|	**Ni**	**62**	**0.017**	ug/L	0.041	236	15	19	51	KED
|	**Cu**	**63**	**0.011**	ug/L	0.031	286	198	232	57	KED
|	**Cu**	**65**	**0.003**	ug/L	0.019	572	107	108	39	KED
|	**Zn**	**66**	**-0.038**	ug/L	0.026	68	67	43	32	KED
|	**Zn**	**67**	**-0.087**	ug/L	0.023	26	15	7	25	KED
⌊	**As**	**75**	**0.012**	ug/L	0.013	106	4	7	46	KED
	Y	**89**		ug/L			53627	51661	1	Standard
	Kr	**83**		ug/L			34	57	21	Standard
⌈>	**In-1**	**115**		ug/L			7114	6496	1	KED
|	**Cd**	**111**	**-0.003**	ug/L	0.006	191	2	1	114	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.000	5	0	0	21	KED
⌈>	**In**	**115**		ug/L			522018	495425	0	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.000	9	24	44	4	Standard
⌈>	**Tb**	**159**		ug/L			194588	187990	1	Standard
⌊	**Pb**	**208**	**-0.003**	ug/L	0.000	9	589	317	8	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23E0138-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Thursday, May 11, 2023 02:37:38
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			23951	26731	3	Standard
⌈>	Sc	45		ug/L			579638	510919	2	Standard
|	Cr	52	3.536	ug/L	0.053	1	10138	55491	1	Standard
⌊	Cr	53	3.450	ug/L	0.048	1	92	5401	3	Standard
⌈>	Ge	72		ug/L			33052	27574	0	KED
|	Ni	60	0.373	ug/L	0.022	5	97	576	5	KED
|	Ni	62	0.368	ug/L	0.037	9	15	91	8	KED
|	Cu	63	2.632	ug/L	0.032	1	198	9922	1	KED
|	Cu	65	2.576	ug/L	0.005	0	107	4991	0	KED
|	Zn	66	1.731	ug/L	0.144	8	67	845	6	KED
|	Zn	67	1.654	ug/L	0.275	16	15	135	14	KED
⌊	As	75	0.040	ug/L	0.010	23	4	12	17	KED
	Y	89		ug/L			53627	46957	1	Standard
	Kr	83		ug/L			34	50	22	Standard
⌈>	In-1	115		ug/L			7114	5630	4	KED
|	Cd	111	0.012	ug/L	0.007	62	2	4	35	KED
⌊	Cd	114	0.005	ug/L	0.002	32	0	2	32	KED
⌈>	In	115		ug/L			522018	454440	3	Standard
⌊	Ag	107	0.001	ug/L	0.001	86	24	35	32	Standard
⌈>	Tb	159		ug/L			194588	177445	0	Standard
⌊	Pb	208	0.009	ug/L	0.000	4	589	1292	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23E0139-01
Sample Dil Factor: 2
Comments:
Sample Date/Time: Thursday, May 11, 2023 02:42:27
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			23951	25305	6	Standard
⌈>	Sc	45		ug/L			579638	495840	2	Standard
|	Cr	52	6.970	ug/L	0.074	1	10138	97727	1	Standard
⌊	Cr	53	6.889	ug/L	0.140	2	92	10389	3	Standard
⌈>	Ge	72		ug/L			33052	26357	0	KED
|	Ni	60	0.396	ug/L	0.027	6	97	579	5	KED
|	Ni	62	0.351	ug/L	0.046	13	15	83	10	KED
|	Cu	63	2.634	ug/L	0.022	0	198	9492	0	KED
|	Cu	65	2.580	ug/L	0.023	0	107	4779	1	KED
|	Zn	66	1.552	ug/L	0.050	3	67	730	2	KED
|	Zn	67	1.324	ug/L	0.279	21	15	106	19	KED
⌊	As	75	0.037	ug/L	0.004	10	4	11	7	KED
	Y	89		ug/L			53627	45441	0	Standard
	Kr	83		ug/L			34	40	33	Standard
⌈>	In-1	115		ug/L			7114	5374	2	KED
|	Cd	111	0.009	ug/L	0.014	150	2	3	78	KED
⌊	Cd	114	0.027	ug/L	0.012	46	0	13	43	KED
⌈>	In	115		ug/L			522018	432964	3	Standard
⌊	Ag	107	0.001	ug/L	0.000	45	24	31	12	Standard
⌈>	Tb	159		ug/L			194588	174764	1	Standard
⌊	Pb	208	0.034	ug/L	0.001	1	589	3409	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23E0139-02
Sample Dil Factor: 2
Comments:
Sample Date/Time: Thursday, May 11, 2023 02:47:16
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			23951	26683	4	Standard
⌈>	Sc	45		ug/L			579638	489659	3	Standard
|	Cr	52	3.753	ug/L	0.073	1	10138	55912	1	Standard
⌊	Cr	53	3.762	ug/L	0.018	0	92	5636	2	Standard
⌈>	Ge	72		ug/L			33052	26552	0	KED
|	Ni	60	0.369	ug/L	0.018	4	97	549	4	KED
|	Ni	62	0.345	ug/L	0.078	22	15	83	18	KED
|	Cu	63	2.510	ug/L	0.028	1	198	9120	0	KED
|	Cu	65	2.433	ug/L	0.067	2	107	4546	3	KED
|	Zn	66	1.083	ug/L	0.028	2	67	529	2	KED
|	Zn	67	0.817	ug/L	0.129	15	15	71	12	KED
⌊	As	75	0.036	ug/L	0.011	29	4	11	19	KED
	Y	89		ug/L			53627	46118	3	Standard
	Kr	83		ug/L			34	36	7	Standard
⌈>	In-1	115		ug/L			7114	5389	1	KED
|	Cd	111	0.017	ug/L	0.006	33	2	5	21	KED
⌊	Cd	114	0.010	ug/L	0.007	70	0	5	65	KED
⌈>	In	115		ug/L			522018	441133	2	Standard
⌊	Ag	107	-0.001	ug/L	0.000	46	24	12	31	Standard
⌈>	Tb	159		ug/L			194588	175179	1	Standard
⌊	Pb	208	0.007	ug/L	0.001	12	589	1111	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23E0139-03
Sample Dil Factor: 2
Comments:
Sample Date/Time: Thursday, May 11, 2023 02:53:05
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			23951	26767	4	Standard
⌈>	Sc	45		ug/L			579638	504015	1	Standard
|	Cr	52	3.513	ug/L	0.093	2	10138	54463	4	Standard
⌊	Cr	53	3.463	ug/L	0.043	1	92	5348	3	Standard
⌈>	Ge	72		ug/L			33052	26771	0	KED
|	Ni	60	0.451	ug/L	0.023	5	97	659	4	KED
|	Ni	62	0.489	ug/L	0.039	8	15	113	6	KED
|	Cu	63	2.660	ug/L	0.052	1	198	9732	0	KED
|	Cu	65	2.699	ug/L	0.079	2	107	5073	1	KED
|	Zn	66	1.768	ug/L	0.133	7	67	836	6	KED
|	Zn	67	1.750	ug/L	0.245	13	15	139	13	KED
⌊	As	75	0.035	ug/L	0.007	21	4	11	15	KED
	Y	89		ug/L			53627	46971	2	Standard
	Kr	83		ug/L			34	48	12	Standard
⌈>	In-1	115		ug/L			7114	5586	1	KED
|	Cd	111	0.010	ug/L	0.005	47	2	3	25	KED
⌊	Cd	114	0.010	ug/L	0.004	41	0	5	37	KED
⌈>	In	115		ug/L			522018	433798	0	Standard
⌊	Ag	107	0.002	ug/L	0.001	54	24	53	34	Standard
⌈>	Tb	159		ug/L			194588	175484	1	Standard
⌊	Pb	208	0.014	ug/L	0.001	5	589	1719	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLC
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 02:57:55
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23951	20581	4	Standard
⌈>	**Sc**	**45**		ug/L			579638	514460	2	Standard
|	**Cr**	**52**	**0.023**	ug/L	0.028	121	10138	9300	1	Standard
⌊	**Cr**	**53**	**-0.009**	ug/L	0.001	15	92	67	3	Standard
⌈>	**Ge**	**72**		ug/L			33052	29561	0	KED
|	**Ni**	**60**	**0.037**	ug/L	0.010	28	97	139	10	KED
|	**Ni**	**62**	**0.010**	ug/L	0.040	389	15	16	54	KED
|	**Cu**	**63**	**-0.030**	ug/L	0.002	8	198	57	16	KED
|	**Cu**	**65**	**-0.036**	ug/L	0.003	6	107	22	22	KED
|	**Zn**	**66**	**-0.017**	ug/L	0.016	93	67	52	15	KED
|	**Zn**	**67**	**-0.107**	ug/L	0.041	38	15	5	57	KED
⌊	**As**	**75**	**-0.007**	ug/L	0.005	67	4	2	53	KED
	Y	**89**		ug/L			53627	48791	1	Standard
	Kr	**83**		ug/L			34	54	43	Standard
⌈>	**In-1**	**115**		ug/L			7114	6083	2	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.005	315	2	1	69	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.002	123	0	1	90	KED
⌈>	**In**	**115**		ug/L			522018	488801	1	Standard
⌊	**Ag**	**107**	**-0.000**	ug/L	0.000	49	24	18	11	Standard
⌈>	**Tb**	**159**		ug/L			194588	184314	1	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.000	30	589	479	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23E0136-01
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 03:02:15
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23951	32770	3	Standard
⌈>	**Sc**	**45**		ug/L			579638	557739	0	Standard
|	**Cr**	**52**	**67.274**	ug/L	2.653	3	10138	976668	3	Standard
⌊	**Cr**	**53**	**66.446**	ug/L	0.652	0	92	111934	1	Standard
⌈>	**Ge**	**72**		ug/L			33052	29236	0	KED
|	**Ni**	**60**	**1.121**	ug/L	0.050	4	97	1661	3	KED
|	**Ni**	**62**	**1.234**	ug/L	0.177	14	15	292	14	KED
|	**Cu**	**63**	**7.027**	ug/L	0.005	0	198	27797	0	KED
|	**Cu**	**65**	**6.877**	ug/L	0.141	2	107	13973	2	KED
|	**Zn**	**66**	**6.382**	ug/L	0.084	1	67	3144	1	KED
|	**Zn**	**67**	**6.911**	ug/L	0.750	10	15	557	9	KED
⌊	**As**	**75**	**2.137**	ug/L	0.056	2	4	504	2	KED
	Y	**89**		ug/L			53627	87368	1	Standard
	Kr	**83**		ug/L			34	57	10	Standard
⌈>	**In-1**	**115**		ug/L			7114	6172	2	KED
|	**Cd**	**111**	**0.003**	ug/L	0.007	235	2	2	57	KED
⌊	**Cd**	**114**	**0.015**	ug/L	0.010	69	0	8	65	KED
⌈>	**In**	**115**		ug/L			522018	485517	3	Standard
⌊	**Ag**	**107**	**0.011**	ug/L	0.000	2	24	199	4	Standard
⌈>	**Tb**	**159**		ug/L			194588	194873	2	Standard
⌊	**Pb**	**208**	**1.553**	ug/L	0.050	3	589	145383	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23E0137-01
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 03:06:34
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23951	35755	6	Standard
⌈>	**Sc**	**45**		ug/L			579638	535473	2	Standard
|	**Cr**	**52**	**0.338**	ug/L	0.032	9	10138	14033	5	Standard
⌊	**Cr**	**53**	**0.343**	ug/L	0.012	3	92	639	4	Standard
⌈>	**Ge**	**72**		ug/L			33052	29985	1	KED
|	**Ni**	**60**	**0.275**	ug/L	0.028	10	97	484	6	KED
|	**Ni**	**62**	**0.284**	ug/L	0.052	18	15	80	14	KED
|	**Cu**	**63**	**4.731**	ug/L	0.041	0	198	19250	1	KED
|	**Cu**	**65**	**4.659**	ug/L	0.101	2	107	9738	2	KED
|	**Zn**	**66**	**45.233**	ug/L	0.593	1	67	22489	2	KED
|	**Zn**	**67**	**42.656**	ug/L	1.352	3	15	3456	3	KED
⌊	**As**	**75**	**0.172**	ug/L	0.015	8	4	45	9	KED
	Y	**89**		ug/L			53627	51488	2	Standard
	Kr	**83**		ug/L			34	48	35	Standard
⌈>	**In-1**	**115**		ug/L			7114	6231	1	KED
|	**Cd**	**111**	**0.026**	ug/L	0.011	39	2	7	30	KED
⌊	**Cd**	**114**	**0.040**	ug/L	0.007	16	0	23	17	KED
⌈>	**In**	**115**		ug/L			522018	499250	1	Standard
⌊	**Ag**	**107**	**0.004**	ug/L	0.001	15	24	86	10	Standard
⌈>	**Tb**	**159**		ug/L			194588	189397	1	Standard
⌊	**Pb**	**208**	**0.787**	ug/L	0.023	2	589	71873	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0477-21
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 03:11:23
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			23951	33248	2	Standard
⌈>	Sc	45		ug/L			579638	537208	1	Standard
|	Cr	52	0.097	ug/L	0.020	20	10138	10742	2	Standard
⌊	Cr	53	0.104	ug/L	0.004	3	92	253	3	Standard
⌈>	Ge	72		ug/L			33052	29942	2	KED
|	Ni	60	0.000	ug/L	0.010	5753	97	88	17	KED
|	Ni	62	0.026	ug/L	0.014	53	15	20	14	KED
|	Cu	63	0.081	ug/L	0.008	9	198	505	6	KED
|	Cu	65	0.080	ug/L	0.008	10	107	262	4	KED
|	Zn	66	0.867	ug/L	0.118	13	67	490	11	KED
|	Zn	67	0.698	ug/L	0.164	23	15	70	16	KED
⌊	As	75	0.000	ug/L	0.007	1825	4	4	43	KED
	Y	89		ug/L			53627	50819	1	Standard
	Kr	83		ug/L			34	50	11	Standard
⌈>	In-1	115		ug/L			7114	6279	2	KED
|	Cd	111	0.005	ug/L	0.002	39	2	3	17	KED
⌊	Cd	114	0.004	ug/L	0.002	46	0	2	39	KED
⌈>	In	115		ug/L			522018	507431	1	Standard
⌊	Ag	107	-0.000	ug/L	0.001	2064	24	23	46	Standard
⌈>	Tb	159		ug/L			194588	187192	0	Standard
⌊	Pb	208	0.021	ug/L	0.001	6	589	2460	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0477-22
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 03:15:49
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			23951	33216	5	Standard
⌈>	Sc	45		ug/L			579638	540455	2	Standard
|	Cr	52	0.193	ug/L	0.007	3	10138	12141	2	Standard
⌊	Cr	53	0.213	ug/L	0.006	2	92	432	1	Standard
⌈>	Ge	72		ug/L			33052	29934	2	KED
|	Ni	60	-0.016	ug/L	0.007	43	97	65	13	KED
|	Ni	62	-0.013	ug/L	0.015	121	15	11	28	KED
|	Cu	63	0.144	ug/L	0.010	6	198	760	2	KED
|	Cu	65	0.145	ug/L	0.007	4	107	398	4	KED
|	Zn	66	0.558	ug/L	0.016	2	67	337	2	KED
|	Zn	67	0.635	ug/L	0.206	32	15	65	24	KED
⌊	As	75	-0.008	ug/L	0.004	48	4	2	48	KED
	Y	89		ug/L			53627	51381	1	Standard
	Kr	83		ug/L			34	43	45	Standard
⌈>	In-1	115		ug/L			7114	6475	1	KED
|	Cd	111	-0.005	ug/L	0.004	87	2	0	100	KED
⌊	Cd	114	-0.001	ug/L	0.000	18	0	0	91	KED
⌈>	In	115		ug/L			522018	506450	0	Standard
⌊	Ag	107	-0.000	ug/L	0.000	27	24	15	13	Standard
⌈>	Tb	159		ug/L			194588	190548	0	Standard
⌊	Pb	208	0.003	ug/L	0.001	18	589	829	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLD
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 03:20:15
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23951	21935	7	Standard
⌈>	**Sc**	**45**		ug/L			579638	534807	2	Standard
|	**Cr**	**52**	**-0.045**	ug/L	0.003	6	10138	8736	2	Standard
⌊	**Cr**	**53**	**-0.006**	ug/L	0.004	69	92	75	6	Standard
⌈>	**Ge**	**72**		ug/L			33052	29971	2	KED
|	**Ni**	**60**	**0.025**	ug/L	0.011	45	97	123	11	KED
|	**Ni**	**62**	**0.043**	ug/L	0.040	95	15	24	37	KED
|	**Cu**	**63**	**-0.031**	ug/L	0.002	6	198	53	16	KED
|	**Cu**	**65**	**-0.033**	ug/L	0.009	26	107	29	59	KED
|	**Zn**	**66**	**-0.013**	ug/L	0.015	121	67	54	12	KED
|	**Zn**	**67**	**-0.060**	ug/L	0.096	158	15	9	80	KED
⌊	**As**	**75**	**-0.009**	ug/L	0.009	99	4	1	108	KED
	Y	**89**		ug/L			53627	51479	1	Standard
	Kr	**83**		ug/L			34	55	15	Standard
⌈>	**In-1**	**115**		ug/L			7114	6208	1	KED
|	**Cd**	**111**	**-0.000**	ug/L	0.004	3385	2	1	50	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.004	255	0	1	184	KED
⌈>	**In**	**115**		ug/L			522018	496396	1	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.000	8	24	8	12	Standard
⌈>	**Tb**	**159**		ug/L			194588	186482	2	Standard
⌊	**Pb**	**208**	**-0.001**	ug/L	0.000	16	589	459	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVE
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 03:24:41
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23951	22807	7	Standard
⌈>	**Sc**	**45**		ug/L			579638	556000	2	Standard
|	**Cr**	**52**	**48.851**	ug/L	0.760	1	10138	709575	1	Standard
⌊	**Cr**	**53**	**48.141**	ug/L	0.705	1	92	80877	3	Standard
⌈>	**Ge**	**72**		ug/L			33052	29925	0	KED
|	**Ni**	**60**	**50.748**	ug/L	0.354	0	97	73083	1	KED
|	**Ni**	**62**	**50.531**	ug/L	1.699	3	15	11660	3	KED
|	**Cu**	**63**	**51.681**	ug/L	0.769	1	198	208097	1	KED
|	**Cu**	**65**	**50.635**	ug/L	1.471	2	107	104669	2	KED
|	**Zn**	**66**	**51.834**	ug/L	0.857	1	67	25705	1	KED
|	**Zn**	**67**	**50.952**	ug/L	0.559	1	15	4117	0	KED
⌊	**As**	**75**	**50.274**	ug/L	0.907	1	4	12069	1	KED
	Y	**89**		ug/L			53627	50922	0	Standard
	Kr	**83**		ug/L			34	59	6	Standard
⌈>	**In-1**	**115**		ug/L			7114	6455	1	KED
|	**Cd**	**111**	**50.608**	ug/L	1.004	1	2	11844	0	KED
⌊	**Cd**	**114**	**51.083**	ug/L	1.456	2	0	30752	1	KED
⌈>	**In**	**115**		ug/L			522018	489404	3	Standard
⌊	**Ag**	**107**	**46.320**	ug/L	1.660	3	24	744936	0	Standard
⌈>	**Tb**	**159**		ug/L			194588	189215	1	Standard
⌊	**Pb**	**208**	**54.914**	ug/L	0.055	0	589	4973228	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBE
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 03:31:51
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23951	22233	3	Standard
⌈>	**Sc**	**45**		ug/L			579638	549986	1	Standard
|	**Cr**	**52**	**-0.050**	ug/L	0.020	40	10138	8905	3	Standard
⌊	**Cr**	**53**	**-0.014**	ug/L	0.005	36	92	64	12	Standard
⌈>	**Ge**	**72**		ug/L			33052	30190	2	KED
|	**Ni**	**60**	**-0.022**	ug/L	0.003	15	97	57	10	KED
|	**Ni**	**62**	**-0.005**	ug/L	0.013	257	15	13	24	KED
|	**Cu**	**63**	**-0.035**	ug/L	0.004	12	198	38	45	KED
|	**Cu**	**65**	**-0.040**	ug/L	0.002	6	107	15	30	KED
|	**Zn**	**66**	**-0.071**	ug/L	0.013	18	67	26	23	KED
|	**Zn**	**67**	**-0.155**	ug/L	0.024	15	15	1	100	KED
⌊	**As**	**75**	**-0.006**	ug/L	0.006	114	4	2	56	KED
	Y	**89**		ug/L			53627	49886	1	Standard
	Kr	**83**		ug/L			34	40	18	Standard
⌈>	**In-1**	**115**		ug/L			7114	6635	3	KED
|	**Cd**	**111**	**-0.001**	ug/L	0.000	41	2	1		KED
⌊	**Cd**	**114**	**0.004**	ug/L	0.002	42	0	3	37	KED
⌈>	**In**	**115**		ug/L			522018	502273	1	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.002	86	24	62	52	Standard
⌈>	**Tb**	**159**		ug/L			194588	186108	1	Standard
⌊	**Pb**	**208**	**-0.002**	ug/L	0.002	146	589	411	53	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0477-11
Sample Dil Factor: 2
Comments:
Sample Date/Time: Thursday, May 11, 2023 03:36:16
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			23951	31765	4	Standard
⌈>	Sc	45		ug/L			579638	563677	2	Standard
|	Cr	52	0.516	ug/L	0.028	5	10138	17347	1	Standard
⌊	Cr	53	0.528	ug/L	0.028	5	92	987	7	Standard
⌈>	Ge	72		ug/L			33052	31098	3	KED
|	Ni	60	0.485	ug/L	0.004	0	97	817	3	KED
|	Ni	62	0.513	ug/L	0.019	3	15	137	2	KED
|	Cu	63	4.141	ug/L	0.127	3	198	17492	1	KED
|	Cu	65	4.064	ug/L	0.150	3	107	8818	0	KED
|	Zn	66	14.845	ug/L	0.550	3	67	7690	1	KED
|	Zn	67	13.795	ug/L	1.052	7	15	1168	6	KED
⌊	As	75	0.979	ug/L	0.034	3	4	248	1	KED
	Y	89		ug/L			53627	58044	1	Standard
	Kr	83		ug/L			34	40	45	Standard
⌈>	In-1	115		ug/L			7114	6522	1	KED
|	Cd	111	0.010	ug/L	0.015	148	2	4	81	KED
⌊	Cd	114	0.024	ug/L	0.022	92	0	15	90	KED
⌈>	In	115		ug/L			522018	517383	2	Standard
⌊	Ag	107	0.005	ug/L	0.001	12	24	112	7	Standard
⌈>	Tb	159		ug/L			194588	192288	0	Standard
⌊	Pb	208	0.297	ug/L	0.004	1	589	27902	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0477-13
Sample Dil Factor: 2
Comments:
Sample Date/Time: Thursday, May 11, 2023 03:40:42
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23951	33420	6	Standard
⌈>	**Sc**	**45**		ug/L			579638	597184	2	Standard
|	**Cr**	**52**	**0.086**	ug/L	0.003	3	10138	11761	2	Standard
⌊	**Cr**	**53**	**0.672**	ug/L	0.020	3	92	1306	5	Standard
⌈>	**Ge**	**72**		ug/L			33052	29672	0	KED
|	**Ni**	**60**	**0.873**	ug/L	0.063	7	97	1333	7	KED
|	**Ni**	**62**	**0.796**	ug/L	0.037	4	15	196	3	KED
|	**Cu**	**63**	**2.671**	ug/L	0.041	1	198	10832	1	KED
|	**Cu**	**65**	**2.604**	ug/L	0.067	2	107	5428	2	KED
|	**Zn**	**66**	**4.566**	ug/L	0.064	1	67	2300	0	KED
|	**Zn**	**67**	**4.512**	ug/L	0.361	8	15	374	8	KED
⌊	**As**	**75**	**8.446**	ug/L	0.070	0	4	2013	0	KED
	Y	**89**		ug/L			53627	52902	3	Standard
	Kr	**83**		ug/L			34	40	29	Standard
⌈>	**In-1**	**115**		ug/L			7114	6338	3	KED
|	**Cd**	**111**	**0.044**	ug/L	0.017	39	2	12	35	KED
⌊	**Cd**	**114**	**0.047**	ug/L	0.021	45	0	28	48	KED
⌈>	**In**	**115**		ug/L			522018	485458	1	Standard
⌊	**Ag**	**107**	**0.007**	ug/L	0.001	11	24	130	8	Standard
⌈>	**Tb**	**159**		ug/L			194588	190390	1	Standard
⌊	**Pb**	**208**	**0.116**	ug/L	0.005	4	589	11107	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0477-02
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 03:45:01
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23951	38314	4	Standard
⌈>	**Sc**	**45**		ug/L			579638	646981	2	Standard
|	**Cr**	**52**	**0.888**	ug/L	0.023	2	10138	26120	2	Standard
⌊	**Cr**	**53**	**1.076**	ug/L	0.017	1	92	2203	2	Standard
⌈>	**Ge**	**72**		ug/L			33052	29945	1	KED
|	**Ni**	**60**	**1.543**	ug/L	0.011	0	97	2310	0	KED
|	**Ni**	**62**	**1.604**	ug/L	0.107	6	15	384	5	KED
|	**Cu**	**63**	**8.861**	ug/L	0.062	0	198	35851	0	KED
|	**Cu**	**65**	**8.710**	ug/L	0.233	2	107	18094	1	KED
|	**Zn**	**66**	**59.363**	ug/L	1.858	3	67	29443	1	KED
|	**Zn**	**67**	**55.640**	ug/L	1.116	2	15	4497	2	KED
⌊	**As**	**75**	**13.552**	ug/L	0.241	1	4	3258	0	KED
	Y	**89**		ug/L			53627	53454	1	Standard
	Kr	**83**		ug/L			34	42	31	Standard
⌈>	**In-1**	**115**		ug/L			7114	6255	2	KED
|	**Cd**	**111**	**0.095**	ug/L	0.028	29	2	23	26	KED
⌊	**Cd**	**114**	**0.094**	ug/L	0.028	29	0	55	31	KED
⌈>	**In**	**115**		ug/L			522018	483384	2	Standard
⌊	**Ag**	**107**	**0.020**	ug/L	0.003	14	24	338	11	Standard
⌈>	**Tb**	**159**		ug/L			194588	187521	0	Standard
⌊	**Pb**	**208**	**0.498**	ug/L	0.005	1	589	45223	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0480-01
Sample Dil Factor: 5
Comments:
Sample Date/Time: Thursday, May 11, 2023 03:49:51
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23951	70854	3	Standard
⌈>	**Sc**	**45**		ug/L			579638	449320	6	Standard
|	**Cr**	**52**	**7.887**	ug/L	0.328	4	10138	99022	2	Standard
⌊	**Cr**	**53**	**7.426**	ug/L	0.154	2	92	10131	4	Standard
⌈>	**Ge**	**72**		ug/L			33052	25478	2	KED
|	**Ni**	**60**	**1.547**	ug/L	0.066	4	97	1969	4	KED
|	**Ni**	**62**	**1.644**	ug/L	0.112	6	15	334	4	KED
|	**Cu**	**63**	**0.100**	ug/L	0.014	13	198	497	9	KED
|	**Cu**	**65**	**0.093**	ug/L	0.018	19	107	246	10	KED
|	**Zn**	**66**	**11.574**	ug/L	0.487	4	67	4924	2	KED
|	**Zn**	**67**	**10.735**	ug/L	0.983	9	15	747	6	KED
⌊	**As**	**75**	**0.044**	ug/L	0.003	6	4	12	3	KED
	Y	**89**		ug/L			53627	44728	0	Standard
	Kr	**83**		ug/L			34	46	9	Standard
⌈>	**In-1**	**115**		ug/L			7114	5192	0	KED
|	**Cd**	**111**	**0.170**	ug/L	0.024	13	2	33	13	KED
⌊	**Cd**	**114**	**0.224**	ug/L	0.028	12	0	108	11	KED
⌈>	**In**	**115**		ug/L			522018	411063	1	Standard
⌊	**Ag**	**107**	**0.000**	ug/L	0.000	143	24	23	26	Standard
⌈>	**Tb**	**159**		ug/L			194588	163966	1	Standard
⌊	**Pb**	**208**	**0.025**	ug/L	0.001	5	589	2473	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLE
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 03:57:41
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23951	20319	5	Standard
⌈>	**Sc**	**45**		ug/L			579638	499605	1	Standard
|	**Cr**	**52**	**-0.046**	ug/L	0.012	25	10138	8150	1	Standard
⌊	**Cr**	**53**	**-0.005**	ug/L	0.004	73	92	71	6	Standard
⌈>	**Ge**	**72**		ug/L			33052	27777	0	KED
|	**Ni**	**60**	**-0.024**	ug/L	0.014	58	97	50	38	KED
|	**Ni**	**62**	**-0.003**	ug/L	0.031	991	15	12	52	KED
|	**Cu**	**63**	**-0.034**	ug/L	0.004	10	198	38	34	KED
|	**Cu**	**65**	**-0.036**	ug/L	0.001	2	107	20	9	KED
|	**Zn**	**66**	**-0.045**	ug/L	0.043	96	67	36	55	KED
|	**Zn**	**67**	**-0.059**	ug/L	0.097	163	15	8	81	KED
⌊	**As**	**75**	**-0.008**	ug/L	0.004	52	4	1	50	KED
	Y	**89**		ug/L			53627	46991	0	Standard
	Kr	**83**		ug/L			34	40	50	Standard
⌈>	**In-1**	**115**		ug/L			7114	5646	3	KED
|	**Cd**	**111**	**-0.005**	ug/L	0.003	50	2	0	86	KED
⌊	**Cd**	**114**	**0.004**	ug/L	0.006	134	0	2	115	KED
⌈>	**In**	**115**		ug/L			522018	478274	1	Standard
⌊	**Ag**	**107**	**-0.000**	ug/L	0.001	134	24	15	56	Standard
⌈>	**Tb**	**159**		ug/L			194588	177490	1	Standard
⌊	**Pb**	**208**	**-0.003**	ug/L	0.000	8	589	291	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0537-05
Sample Dil Factor: 5
Comments:
Sample Date/Time: Thursday, May 11, 2023 04:02:31
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23951	25567	1	Standard
⌈>	**Sc**	**45**		ug/L			579638	570472	2	Standard
|	**Cr**	**52**	**0.037**	ug/L	0.013	34	10138	10522	1	Standard
⌊	**Cr**	**53**	**0.161**	ug/L	0.007	4	92	368	5	Standard
⌈>	**Ge**	**72**		ug/L			33052	27813	1	KED
|	**Ni**	**60**	**0.117**	ug/L	0.020	17	97	238	9	KED
|	**Ni**	**62**	**0.157**	ug/L	0.051	32	15	46	23	KED
|	**Cu**	**63**	**0.061**	ug/L	0.008	13	198	394	9	KED
|	**Cu**	**65**	**0.056**	ug/L	0.007	12	107	198	5	KED
|	**Zn**	**66**	**0.314**	ug/L	0.053	16	67	201	13	KED
|	**Zn**	**67**	**0.544**	ug/L	0.135	24	15	53	17	KED
⌊	**As**	**75**	**0.881**	ug/L	0.057	6	4	200	5	KED
	Y	**89**		ug/L			53627	51535	1	Standard
	Kr	**83**		ug/L			34	35	18	Standard
⌈>	**In-1**	**115**		ug/L			7114	5808	1	KED
|	**Cd**	**111**	**-0.003**	ug/L	0.003	97	2	1	43	KED
⌊	**Cd**	**114**	**0.003**	ug/L	0.006	216	0	1	180	KED
⌈>	**In**	**115**		ug/L			522018	466235	0	Standard
⌊	**Ag**	**107**	**0.000**	ug/L	0.001	647	24	23	38	Standard
⌈>	**Tb**	**159**		ug/L			194588	184807	1	Standard
⌊	**Pb**	**208**	**0.009**	ug/L	0.001	10	589	1353	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0120-DUP3
Sample Dil Factor: 5
Comments:
Sample Date/Time: Thursday, May 11, 2023 04:06:50
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23951	25921	4	Standard
⌈>	**Sc**	**45**		ug/L			579638	571398	1	Standard
|	**Cr**	**52**	**0.026**	ug/L	0.018	67	10138	10378	1	Standard
⌊	**Cr**	**53**	**0.167**	ug/L	0.014	8	92	378	6	Standard
⌈>	**Ge**	**72**		ug/L			33052	27769	2	KED
|	**Ni**	**60**	**0.146**	ug/L	0.011	7	97	276	3	KED
|	**Ni**	**62**	**0.101**	ug/L	0.050	49	15	34	30	KED
|	**Cu**	**63**	**0.017**	ug/L	0.017	97	198	231	27	KED
|	**Cu**	**65**	**0.013**	ug/L	0.008	62	107	114	13	KED
|	**Zn**	**66**	**0.357**	ug/L	0.064	17	67	220	12	KED
|	**Zn**	**67**	**0.443**	ug/L	0.103	23	15	46	14	KED
⌊	**As**	**75**	**0.944**	ug/L	0.075	7	4	213	5	KED
	Y	**89**		ug/L			53627	51598	1	Standard
	Kr	**83**		ug/L			34	38	23	Standard
⌈>	**In-1**	**115**		ug/L			7114	5735	1	KED
|	**Cd**	**111**	**0.007**	ug/L	0.003	39	2	3	17	KED
⌊	**Cd**	**114**	**0.005**	ug/L	0.004	80	0	2	73	KED
⌈>	**In**	**115**		ug/L			522018	473625	1	Standard
⌊	**Ag**	**107**	**-0.000**	ug/L	0.000	51	24	15	25	Standard
⌈>	**Tb**	**159**		ug/L			194588	184642	1	Standard
⌊	**Pb**	**208**	**0.006**	ug/L	0.000	7	589	1104	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0120-MS3
Sample Dil Factor: 5
Comments:
Sample Date/Time: Thursday, May 11, 2023 04:11:40
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23951	26225	3	Standard
⌈>	**Sc**	**45**		ug/L			579638	578116	3	Standard
|	**Cr**	**52**	**4.784**	ug/L	0.234	4	10138	81350	3	Standard
⌊	**Cr**	**53**	**4.812**	ug/L	0.226	4	92	8479	1	Standard
⌈>	**Ge**	**72**		ug/L			33052	28372	0	KED
|	**Ni**	**60**	**5.500**	ug/L	0.057	1	97	7584	1	KED
|	**Ni**	**62**	**5.488**	ug/L	0.209	3	15	1212	2	KED
|	**Cu**	**63**	**5.297**	ug/L	0.107	2	198	20376	2	KED
|	**Cu**	**65**	**5.293**	ug/L	0.035	0	107	10457	1	KED
|	**Zn**	**66**	**17.411**	ug/L	0.199	1	67	8225	1	KED
|	**Zn**	**67**	**16.806**	ug/L	0.629	3	15	1296	2	KED
⌊	**As**	**75**	**6.246**	ug/L	0.164	2	4	1424	1	KED
	Y	**89**		ug/L			53627	53132	2	Standard
	Kr	**83**		ug/L			34	51	45	Standard
⌈>	**In-1**	**115**		ug/L			7114	5936	1	KED
|	**Cd**	**111**	**5.302**	ug/L	0.017	0	2	1142	1	KED
⌊	**Cd**	**114**	**5.212**	ug/L	0.091	1	0	2887	3	KED
⌈>	**In**	**115**		ug/L			522018	478703	2	Standard
⌊	**Ag**	**107**	**4.852**	ug/L	0.119	2	24	76442	4	Standard
⌈>	**Tb**	**159**		ug/L			194588	185283	0	Standard
⌊	**Pb**	**208**	**5.696**	ug/L	0.049	0	589	505647	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0120-MSD3
Sample Dil Factor: 5
Comments:
Sample Date/Time: Thursday, May 11, 2023 04:17:29
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23951	26543	2	Standard
⌈>	**Sc**	**45**		ug/L			579638	587593	2	Standard
|	**Cr**	**52**	**4.909**	ug/L	0.087	1	10138	84614	2	Standard
⌊	**Cr**	**53**	**4.941**	ug/L	0.054	1	92	8855	2	Standard
⌈>	**Ge**	**72**		ug/L			33052	29168	1	KED
|	**Ni**	**60**	**5.411**	ug/L	0.139	2	97	7671	2	KED
|	**Ni**	**62**	**5.517**	ug/L	0.086	1	15	1253	1	KED
|	**Cu**	**63**	**5.427**	ug/L	0.106	1	198	21457	1	KED
|	**Cu**	**65**	**5.392**	ug/L	0.133	2	107	10947	1	KED
|	**Zn**	**66**	**17.608**	ug/L	0.518	2	67	8549	1	KED
|	**Zn**	**67**	**16.790**	ug/L	0.367	2	15	1332	3	KED
⌊	**As**	**75**	**6.344**	ug/L	0.141	2	4	1487	0	KED
	Y	**89**		ug/L			53627	54403	3	Standard
	Kr	**83**		ug/L			34	43	19	Standard
⌈>	**In-1**	**115**		ug/L			7114	6065	1	KED
|	**Cd**	**111**	**5.441**	ug/L	0.071	1	2	1198	1	KED
⌊	**Cd**	**114**	**5.437**	ug/L	0.220	4	0	3075	2	KED
⌈>	**In**	**115**		ug/L			522018	480828	1	Standard
⌊	**Ag**	**107**	**4.983**	ug/L	0.032	0	24	78821	0	Standard
⌈>	**Tb**	**159**		ug/L			194588	183019	2	Standard
⌊	**Pb**	**208**	**5.992**	ug/L	0.152	2	589	525164	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLF
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 04:21:55
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23951	21528	5	Standard
⌈>	**Sc**	**45**		ug/L			579638	504587	2	Standard
|	**Cr**	**52**	**-0.049**	ug/L	0.013	26	10138	8189	4	Standard
⌊	**Cr**	**53**	**-0.001**	ug/L	0.010	914	92	78	20	Standard
⌈>	**Ge**	**72**		ug/L			33052	29052	2	KED
|	**Ni**	**60**	**-0.027**	ug/L	0.002	9	97	48	6	KED
|	**Ni**	**62**	**-0.020**	ug/L	0.008	39	15	9	20	KED
|	**Cu**	**63**	**-0.035**	ug/L	0.001	4	198	38	13	KED
|	**Cu**	**65**	**-0.041**	ug/L	0.002	5	107	12	31	KED
|	**Zn**	**66**	**-0.064**	ug/L	0.013	20	67	28	24	KED
|	**Zn**	**67**	**-0.122**	ug/L	0.028	22	15	4	49	KED
⌊	**As**	**75**	**-0.007**	ug/L	0.008	108	4	2	81	KED
	Y	**89**		ug/L			53627	49637	1	Standard
	Kr	**83**		ug/L			34	38	20	Standard
⌈>	**In-1**	**115**		ug/L			7114	6027	1	KED
|	**Cd**	**111**	**-0.003**	ug/L	0.007	226	2	1	114	KED
⌊	**Cd**	**114**	**0.000**	ug/L	0.002	394	0	0	180	KED
⌈>	**In**	**115**		ug/L			522018	479515	1	Standard
⌊	**Ag**	**107**	**-0.000**	ug/L	0.000	299	24	20	32	Standard
⌈>	**Tb**	**159**		ug/L			194588	179966	0	Standard
⌊	**Pb**	**208**	**-0.003**	ug/L	0.000	6	589	288	5	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVF
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 04:26:21
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23951	21819	4	Standard
⌈>	**Sc**	**45**		ug/L			579638	537241	1	Standard
|	**Cr**	**52**	**48.713**	ug/L	0.418	0	10138	683894	1	Standard
⌊	**Cr**	**53**	**47.716**	ug/L	0.941	1	92	77447	2	Standard
⌈>	**Ge**	**72**		ug/L			33052	28563	3	KED
|	**Ni**	**60**	**50.357**	ug/L	1.050	2	97	69185	1	KED
|	**Ni**	**62**	**49.360**	ug/L	2.641	5	15	10859	2	KED
|	**Cu**	**63**	**50.236**	ug/L	1.591	3	198	192937	0	KED
|	**Cu**	**65**	**49.314**	ug/L	2.387	4	107	97191	1	KED
|	**Zn**	**66**	**51.840**	ug/L	1.972	3	67	24518	1	KED
|	**Zn**	**67**	**50.726**	ug/L	2.388	4	15	3909	3	KED
⌊	**As**	**75**	**49.845**	ug/L	2.221	4	4	11411	2	KED
	Y	**89**		ug/L			53627	50469	1	Standard
	Kr	**83**		ug/L			34	51	9	Standard
⌈>	**In-1**	**115**		ug/L			7114	6035	1	KED
|	**Cd**	**111**	**50.348**	ug/L	1.040	2	2	11017	1	KED
⌊	**Cd**	**114**	**49.801**	ug/L	1.740	3	0	28030	2	KED
⌈>	**In**	**115**		ug/L			522018	483754	2	Standard
⌊	**Ag**	**107**	**45.747**	ug/L	1.559	3	24	727585	1	Standard
⌈>	**Tb**	**159**		ug/L			194588	186391	1	Standard
⌊	**Pb**	**208**	**55.271**	ug/L	0.646	1	589	4930661	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBF
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 04:33:31
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			23951	21106	1	Standard
⌈>	**Sc**	**45**		ug/L			579638	522344	0	Standard
|	**Cr**	**52**	**-0.061**	ug/L	0.019	31	10138	8310	2	Standard
⌊	**Cr**	**53**	**-0.006**	ug/L	0.004	59	92	73	8	Standard
⌈>	**Ge**	**72**		ug/L			33052	29478	2	KED
|	**Ni**	**60**	**-0.012**	ug/L	0.009	77	97	69	16	KED
|	**Ni**	**62**	**0.005**	ug/L	0.010	201	15	15	12	KED
|	**Cu**	**63**	**-0.037**	ug/L	0.002	5	198	30	27	KED
|	**Cu**	**65**	**-0.038**	ug/L	0.004	9	107	18	41	KED
|	**Zn**	**66**	**-0.070**	ug/L	0.007	9	67	26	15	KED
|	**Zn**	**67**	**-0.130**	ug/L	0.025	19	15	3	50	KED
⌊	**As**	**75**	**-0.005**	ug/L	0.003	62	4	2	26	KED
	Y	**89**		ug/L			53627	49249	1	Standard
	Kr	**83**		ug/L			34	43	24	Standard
⌈>	**In-1**	**115**		ug/L			7114	6244	2	KED
|	**Cd**	**111**	**-0.002**	ug/L	0.009	593	2	1	124	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.004	251	0	1	184	KED
⌈>	**In**	**115**		ug/L			522018	496790	2	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.001	101	24	40	40	Standard
⌈>	**Tb**	**159**		ug/L			194588	181353	2	Standard
⌊	**Pb**	**208**	**-0.003**	ug/L	0.000	9	589	283	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CAL1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 04:37:57
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L				21210	4	Standard
⎡>	**Sc**	**45**		ug/L				512571	4	Standard
⎢	**Cr**	**52**		ug/L				7952	2	Standard
⎣	**Cr**	**53**		ug/L				75	19	Standard
⎡>	**Ge**	**72**		ug/L				28784	1	KED
⎢	**Ni**	**60**		ug/L				75	11	KED
⎢	**Ni**	**62**		ug/L				12	56	KED
⎢	**Cu**	**63**		ug/L				53	8	KED
⎢	**Cu**	**65**		ug/L				25	37	KED
⎢	**Zn**	**66**		ug/L				52	8	KED
⎢	**Zn**	**67**		ug/L				8	13	KED
⎣	**As**	**75**		ug/L				3	33	KED
	Y	**89**		ug/L				50088	0	Standard
	Kr	**83**		ug/L				44	32	Standard
⎡>	**In-1**	**115**		ug/L				6034	0	KED
⎢	**Cd**	**111**		ug/L				1	34	KED
⎣	**Cd**	**114**		ug/L				1	102	KED
⎡>	**In**	**115**		ug/L				486697	0	Standard
⎣	**Ag**	**107**		ug/L				29	39	Standard
⎡>	**Tb**	**159**		ug/L				178618	1	Standard
⎣	**Pb**	**208**		ug/L				534	9	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVG
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 04:42:23
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21210	22837	2	Standard
⌈>	**Sc**	**45**		ug/L			512571	535240	2	Standard
|	**Cr**	**52**	**49.491**	ug/L	0.986	1	7952	690998	3	Standard
⌊	**Cr**	**53**	**48.754**	ug/L	0.390	0	75	78819	1	Standard
⌈>	**Ge**	**72**		ug/L			28784	29525	1	KED
|	**Ni**	**60**	**50.055**	ug/L	0.415	0	75	71110	0	KED
|	**Ni**	**62**	**49.979**	ug/L	1.344	2	12	11377	1	KED
|	**Cu**	**63**	**50.840**	ug/L	1.123	2	53	201840	1	KED
|	**Cu**	**65**	**49.659**	ug/L	0.970	1	25	101204	1	KED
|	**Zn**	**66**	**50.552**	ug/L	0.931	1	52	24728	0	KED
|	**Zn**	**67**	**49.626**	ug/L	2.134	4	8	3950	3	KED
⌊	**As**	**75**	**48.478**	ug/L	0.311	0	3	11483	0	KED
	Y	**89**		ug/L			50088	50850	3	Standard
	Kr	**83**		ug/L			44	46	16	Standard
⌈>	**In-1**	**115**		ug/L			6034	6252	1	KED
|	**Cd**	**111**	**49.549**	ug/L	0.377	0	1	11233	2	KED
⌊	**Cd**	**114**	**50.157**	ug/L	0.178	0	1	29252	1	KED
⌈>	**In**	**115**		ug/L			486697	479759	2	Standard
⌊	**Ag**	**107**	**46.667**	ug/L	0.707	1	29	736349	2	Standard
⌈>	**Tb**	**159**		ug/L			178618	186665	1	Standard
⌊	**Pb**	**208**	**55.001**	ug/L	1.042	1	534	4913677	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBG
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 04:49:32
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21210	21997	3	Standard
⌈>	**Sc**	**45**		ug/L			512571	533122	1	Standard
|	**Cr**	**52**	**0.014**	ug/L	0.006	43	7952	8458	2	Standard
⌊	**Cr**	**53**	**-0.009**	ug/L	0.006	71	75	64	15	Standard
⌈>	**Ge**	**72**		ug/L			28784	29712	0	KED
|	**Ni**	**60**	**-0.021**	ug/L	0.008	39	75	48	24	KED
|	**Ni**	**62**	**-0.024**	ug/L	0.000	0	12	7	0	KED
|	**Cu**	**63**	**-0.005**	ug/L	0.001	17	53	36	9	KED
|	**Cu**	**65**	**-0.004**	ug/L	0.002	41	25	17	22	KED
|	**Zn**	**66**	**-0.068**	ug/L	0.025	37	52	20	59	KED
|	**Zn**	**67**	**-0.059**	ug/L	0.041	70	8	3	86	KED
⌊	**As**	**75**	**-0.003**	ug/L	0.005	212	3	3	37	KED
	Y	**89**		ug/L			50088	49727	2	Standard
	Kr	**83**		ug/L			44	43	24	Standard
⌈>	**In-1**	**115**		ug/L			6034	6050	0	KED
|	**Cd**	**111**	**-0.004**	ug/L	0.003	57	1	0	86	KED
⌊	**Cd**	**114**	**0.000**	ug/L	0.004	6243	1	1	192	KED
⌈>	**In**	**115**		ug/L			486697	490182	1	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.001	61	29	45	23	Standard
⌈>	**Tb**	**159**		ug/L			178618	181329	1	Standard
⌊	**Pb**	**208**	**-0.003**	ug/L	0.001	22	534	307	18	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0477-04
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 04:53:59
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21210	41125	4	Standard
⌈>	**Sc**	**45**		ug/L			512571	553406	2	Standard
|	**Cr**	**52**	**0.370**	ug/L	0.014	3	7952	13862	0	Standard
⌊	**Cr**	**53**	**0.421**	ug/L	0.015	3	75	784	3	Standard
⌈>	**Ge**	**72**		ug/L			28784	29957	1	KED
|	**Ni**	**60**	**0.870**	ug/L	0.040	4	75	1330	3	KED
|	**Ni**	**62**	**0.872**	ug/L	0.054	6	12	214	6	KED
|	**Cu**	**63**	**2.805**	ug/L	0.089	3	53	11350	2	KED
|	**Cu**	**65**	**2.680**	ug/L	0.062	2	25	5568	2	KED
|	**Zn**	**66**	**10.735**	ug/L	0.292	2	52	5370	1	KED
|	**Zn**	**67**	**10.167**	ug/L	0.647	6	8	827	5	KED
⌊	**As**	**75**	**1.857**	ug/L	0.005	0	3	450	1	KED
	Y	**89**		ug/L			50088	52074	0	Standard
	Kr	**83**		ug/L			44	43	2	Standard
⌈>	**In-1**	**115**		ug/L			6034	6279	0	KED
|	**Cd**	**111**	**0.015**	ug/L	0.005	32	1	5	21	KED
⌊	**Cd**	**114**	**0.018**	ug/L	0.004	21	1	11	19	KED
⌈>	**In**	**115**		ug/L			486697	500655	1	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.001	40	29	55	19	Standard
⌈>	**Tb**	**159**		ug/L			178618	186090	1	Standard
⌊	**Pb**	**208**	**0.043**	ug/L	0.002	3	534	4388	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0477-06
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 04:58:24
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21210	37818	3	Standard
⌈>	**Sc**	**45**		ug/L			512571	620959	3	Standard
|	**Cr**	**52**	**0.750**	ug/L	0.035	4	7952	21630	0	Standard
⌊	**Cr**	**53**	**0.850**	ug/L	0.037	4	75	1682	2	Standard
⌈>	**Ge**	**72**		ug/L			28784	28362	2	KED
|	**Ni**	**60**	**1.873**	ug/L	0.124	6	75	2627	7	KED
|	**Ni**	**62**	**2.080**	ug/L	0.104	5	12	466	2	KED
|	**Cu**	**63**	**6.207**	ug/L	0.041	0	53	23720	1	KED
|	**Cu**	**65**	**5.944**	ug/L	0.210	3	25	11654	1	KED
|	**Zn**	**66**	**13.939**	ug/L	0.181	1	52	6588	1	KED
|	**Zn**	**67**	**13.056**	ug/L	0.606	4	8	1005	6	KED
⌊	**As**	**75**	**13.044**	ug/L	0.191	1	3	2970	0	KED
	Y	**89**		ug/L			50088	52960	3	Standard
	Kr	**83**		ug/L			44	37	12	Standard
⌈>	**In-1**	**115**		ug/L			6034	5947	1	KED
|	**Cd**	**111**	**0.186**	ug/L	0.014	7	1	41	5	KED
⌊	**Cd**	**114**	**0.208**	ug/L	0.016	7	1	116	6	KED
⌈>	**In**	**115**		ug/L			486697	479901	1	Standard
⌊	**Ag**	**107**	**0.012**	ug/L	0.001	8	29	218	5	Standard
⌈>	**Tb**	**159**		ug/L			178618	184864	1	Standard
⌊	**Pb**	**208**	**0.644**	ug/L	0.011	1	534	57486	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0477-08
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 05:02:49
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21210	35079	4	Standard
⌈>	**Sc**	**45**		ug/L			512571	617244	2	Standard
|	**Cr**	**52**	**0.125**	ug/L	0.020	15	7952	11566	2	Standard
⌊	**Cr**	**53**	**0.244**	ug/L	0.006	2	75	546	4	Standard
⌈>	**Ge**	**72**		ug/L			28784	27855	1	KED
|	**Ni**	**60**	**0.829**	ug/L	0.066	7	75	1181	6	KED
|	**Ni**	**62**	**0.946**	ug/L	0.098	10	12	215	9	KED
|	**Cu**	**63**	**3.890**	ug/L	0.068	1	53	14619	1	KED
|	**Cu**	**65**	**3.923**	ug/L	0.106	2	25	7565	1	KED
|	**Zn**	**66**	**3.697**	ug/L	0.051	1	52	1753	2	KED
|	**Zn**	**67**	**3.953**	ug/L	0.258	6	8	304	5	KED
⌊	**As**	**75**	**20.959**	ug/L	0.676	3	3	4684	1	KED
	Y	**89**		ug/L			50088	50382	1	Standard
	Kr	**83**		ug/L			44	40	12	Standard
⌈>	**In-1**	**115**		ug/L			6034	5808	2	KED
|	**Cd**	**111**	**0.055**	ug/L	0.019	34	1	13	27	KED
⌊	**Cd**	**114**	**0.072**	ug/L	0.029	40	1	40	39	KED
⌈>	**In**	**115**		ug/L			486697	470446	1	Standard
⌊	**Ag**	**107**	**0.006**	ug/L	0.000	7	29	123	6	Standard
⌈>	**Tb**	**159**		ug/L			178618	183524	1	Standard
⌊	**Pb**	**208**	**0.140**	ug/L	0.003	1	534	12872	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0477-10
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 05:07:14
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21210	36815	5	Standard
⌈>	**Sc**	**45**		ug/L			512571	612003	2	Standard
|	**Cr**	**52**	**0.190**	ug/L	0.013	7	7952	12489	1	Standard
⌊	**Cr**	**53**	**0.324**	ug/L	0.013	4	75	687	5	Standard
⌈>	**Ge**	**72**		ug/L			28784	27936	0	KED
|	**Ni**	**60**	**0.814**	ug/L	0.060	7	75	1165	6	KED
|	**Ni**	**62**	**0.884**	ug/L	0.083	9	12	202	8	KED
|	**Cu**	**63**	**3.939**	ug/L	0.170	4	53	14843	3	KED
|	**Cu**	**65**	**3.916**	ug/L	0.044	1	25	7575	0	KED
|	**Zn**	**66**	**4.135**	ug/L	0.215	5	52	1961	5	KED
|	**Zn**	**67**	**4.277**	ug/L	0.228	5	8	329	4	KED
⌊	**As**	**75**	**20.891**	ug/L	0.311	1	3	4684	0	KED
	Y	**89**		ug/L			50088	50782	1	Standard
	Kr	**83**		ug/L			44	56	10	Standard
⌈>	**In-1**	**115**		ug/L			6034	5897	1	KED
|	**Cd**	**111**	**0.072**	ug/L	0.012	16	1	16	14	KED
⌊	**Cd**	**114**	**0.084**	ug/L	0.026	31	1	47	31	KED
⌈>	**In**	**115**		ug/L			486697	476512	1	Standard
⌊	**Ag**	**107**	**0.005**	ug/L	0.001	21	29	111	17	Standard
⌈>	**Tb**	**159**		ug/L			178618	184815	0	Standard
⌊	**Pb**	**208**	**0.113**	ug/L	0.001	0	534	10555	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0477-12
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 05:11:39
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21210	37614	3	Standard
⌈>	**Sc**	**45**		ug/L			512571	541924	1	Standard
|	**Cr**	**52**	**0.444**	ug/L	0.005	1	7952	14603	1	Standard
⌊	**Cr**	**53**	**0.458**	ug/L	0.009	2	75	828	2	Standard
⌈>	**Ge**	**72**		ug/L			28784	29366	1	KED
|	**Ni**	**60**	**0.438**	ug/L	0.038	8	75	694	6	KED
|	**Ni**	**62**	**0.467**	ug/L	0.046	9	12	118	9	KED
|	**Cu**	**63**	**4.007**	ug/L	0.099	2	53	15872	0	KED
|	**Cu**	**65**	**3.821**	ug/L	0.120	3	25	7768	2	KED
|	**Zn**	**66**	**15.485**	ug/L	0.769	4	52	7568	3	KED
|	**Zn**	**67**	**14.598**	ug/L	0.300	2	8	1161	2	KED
⌊	**As**	**75**	**1.412**	ug/L	0.061	4	3	336	5	KED
	Y	**89**		ug/L			50088	54650	2	Standard
	Kr	**83**		ug/L			44	40	21	Standard
⌈>	**In-1**	**115**		ug/L			6034	6075	2	KED
|	**Cd**	**111**	**0.006**	ug/L	0.008	134	1	2	57	KED
⌊	**Cd**	**114**	**0.005**	ug/L	0.010	194	1	4	138	KED
⌈>	**In**	**115**		ug/L			486697	485971	1	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.001	66	29	45	23	Standard
⌈>	**Tb**	**159**		ug/L			178618	187970	2	Standard
⌊	**Pb**	**208**	**0.026**	ug/L	0.001	3	534	2930	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0477-20
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 05:16:05
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21210	40097	3	Standard
⌈>	**Sc**	**45**		ug/L			512571	603458	1	Standard
|	**Cr**	**52**	**0.809**	ug/L	0.013	1	7952	21936	1	Standard
⌊	**Cr**	**53**	**0.815**	ug/L	0.006	0	75	1573	2	Standard
⌈>	**Ge**	**72**		ug/L			28784	28977	2	KED
|	**Ni**	**60**	**1.925**	ug/L	0.145	7	75	2754	5	KED
|	**Ni**	**62**	**1.888**	ug/L	0.139	7	12	433	5	KED
|	**Cu**	**63**	**8.198**	ug/L	0.187	2	53	31985	1	KED
|	**Cu**	**65**	**8.011**	ug/L	0.219	2	25	16040	1	KED
|	**Zn**	**66**	**2.547**	ug/L	0.146	5	52	1273	5	KED
|	**Zn**	**67**	**2.986**	ug/L	0.210	7	8	241	8	KED
⌊	**As**	**75**	**2.558**	ug/L	0.105	4	3	598	5	KED
	Y	**89**		ug/L			50088	93417	2	Standard
	Kr	**83**		ug/L			44	48	4	Standard
⌈>	**In-1**	**115**		ug/L			6034	6056	1	KED
|	**Cd**	**111**	**0.001**	ug/L	0.004	303	1	1	50	KED
⌊	**Cd**	**114**	**0.013**	ug/L	0.008	56	1	8	49	KED
⌈>	**In**	**115**		ug/L			486697	499578	1	Standard
⌊	**Ag**	**107**	**0.009**	ug/L	0.001	8	29	184	6	Standard
⌈>	**Tb**	**159**		ug/L			178618	188351	0	Standard
⌊	**Pb**	**208**	**0.237**	ug/L	0.005	1	534	21965	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0106-DUP1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 05:20:30
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			21210	41033	4	Standard
⌈>	Sc	45		ug/L			512571	600732	2	Standard
|	Cr	52	0.798	ug/L	0.026	3	7952	21676	3	Standard
⌊	Cr	53	0.812	ug/L	0.040	4	75	1561	6	Standard
⌈>	Ge	72		ug/L			28784	29419	1	KED
|	Ni	60	1.815	ug/L	0.049	2	75	2643	0	KED
|	Ni	62	1.980	ug/L	0.134	6	12	461	6	KED
|	Cu	63	8.139	ug/L	0.123	1	53	32242	0	KED
|	Cu	65	8.017	ug/L	0.020	0	25	16304	1	KED
|	Zn	66	2.465	ug/L	0.142	5	52	1252	4	KED
|	Zn	67	2.747	ug/L	0.140	5	8	226	6	KED
⌊	As	75	2.471	ug/L	0.116	4	3	586	2	KED
	Y	89		ug/L			50088	90128	3	Standard
	Kr	83		ug/L			44	61	25	Standard
⌈>	In-1	115		ug/L			6034	6203	0	KED
|	Cd	111	0.010	ug/L	0.007	76	1	3	43	KED
⌊	Cd	114	0.008	ug/L	0.004	42	1	6	34	KED
⌈>	In	115		ug/L			486697	491241	1	Standard
⌊	Ag	107	0.008	ug/L	0.001	9	29	165	7	Standard
⌈>	Tb	159		ug/L			178618	190226	0	Standard
⌊	Pb	208	0.240	ug/L	0.006	2	534	22402	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0106-MS1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 05:24:50
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			21210	39760	3	Standard
⌈>	Sc	45		ug/L			512571	584445	1	Standard
|	Cr	52	24.504	ug/L	0.768	3	7952	378151	3	Standard
⌊	Cr	53	24.330	ug/L	0.333	1	75	42999	2	Standard
⌈>	Ge	72		ug/L			28784	29130	0	KED
|	Ni	60	29.233	ug/L	0.300	1	75	41006	0	KED
|	Ni	62	28.687	ug/L	1.279	4	12	6447	3	KED
|	Cu	63	35.588	ug/L	0.038	0	53	139434	0	KED
|	Cu	65	35.292	ug/L	0.441	1	25	70972	0	KED
|	Zn	66	85.618	ug/L	1.238	1	52	41287	0	KED
|	Zn	67	85.737	ug/L	1.395	1	8	6729	1	KED
⌊	As	75	28.239	ug/L	0.482	1	3	6601	0	KED
	Y	89		ug/L			50088	90513	2	Standard
	Kr	83		ug/L			44	48	20	Standard
⌈>	In-1	115		ug/L			6034	6109	2	KED
|	Cd	111	26.780	ug/L	0.465	1	1	5932	0	KED
⌊	Cd	114	26.945	ug/L	0.773	2	1	15357	3	KED
⌈>	In	115		ug/L			486697	492130	1	Standard
⌊	Ag	107	24.738	ug/L	0.495	2	29	400420	2	Standard
⌈>	Tb	159		ug/L			178618	191727	1	Standard
⌊	Pb	208	29.314	ug/L	0.364	1	534	2689958	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0106-MSD1
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 05:29:39
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21210	38779	2	Standard
⌈>	**Sc**	**45**		ug/L			512571	593612	0	Standard
|	**Cr**	**52**	**24.128**	ug/L	0.502	2	7952	378325	1	Standard
⌊	**Cr**	**53**	**23.584**	ug/L	0.272	1	75	42336	1	Standard
⌈>	**Ge**	**72**		ug/L			28784	29134	1	KED
|	**Ni**	**60**	**28.208**	ug/L	0.262	0	75	39574	1	KED
|	**Ni**	**62**	**28.944**	ug/L	0.377	1	12	6506	1	KED
|	**Cu**	**63**	**35.573**	ug/L	0.102	0	53	139393	1	KED
|	**Cu**	**65**	**35.339**	ug/L	0.595	1	25	71081	2	KED
|	**Zn**	**66**	**89.540**	ug/L	0.536	0	52	43185	2	KED
|	**Zn**	**67**	**85.104**	ug/L	1.844	2	8	6679	0	KED
⌊	**As**	**75**	**27.745**	ug/L	0.236	0	3	6486	1	KED
	Y	**89**		ug/L			50088	91556	2	Standard
	Kr	**83**		ug/L			44	59	21	Standard
⌈>	**In-1**	**115**		ug/L			6034	6041	2	KED
|	**Cd**	**111**	**26.686**	ug/L	0.564	2	1	5845	0	KED
⌊	**Cd**	**114**	**26.924**	ug/L	1.283	4	1	15164	2	KED
⌈>	**In**	**115**		ug/L			486697	492919	2	Standard
⌊	**Ag**	**107**	**24.337**	ug/L	1.058	4	29	394333	2	Standard
⌈>	**Tb**	**159**		ug/L			178618	189477	1	Standard
⌊	**Pb**	**208**	**29.445**	ug/L	0.796	2	534	2669694	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLG
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 05:33:59
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21210	23042	4	Standard
⌈>	**Sc**	**45**		ug/L			512571	504065	2	Standard
|	**Cr**	**52**	**0.021**	ug/L	0.003	14	7952	8096	2	Standard
⌊	**Cr**	**53**	**0.004**	ug/L	0.004	98	75	80	8	Standard
⌈>	**Ge**	**72**		ug/L			28784	29215	1	KED
|	**Ni**	**60**	**-0.017**	ug/L	0.006	36	75	52	16	KED
|	**Ni**	**62**	**-0.032**	ug/L	0.022	68	12	5	88	KED
|	**Cu**	**63**	**-0.004**	ug/L	0.002	43	53	40	17	KED
|	**Cu**	**65**	**-0.002**	ug/L	0.004	230	25	22	39	KED
|	**Zn**	**66**	**-0.055**	ug/L	0.018	32	52	26	31	KED
|	**Zn**	**67**	**-0.018**	ug/L	0.028	158	8	6	31	KED
⌊	**As**	**75**	**-0.007**	ug/L	0.001	16	3	2	12	KED
	Y	**89**		ug/L			50088	47701	0	Standard
	Kr	**83**		ug/L			44	36	21	Standard
⌈>	**In-1**	**115**		ug/L			6034	6006	0	KED
|	**Cd**	**111**	**0.001**	ug/L	0.009	596	1	1	100	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.005	220	1	2	118	KED
⌈>	**In**	**115**		ug/L			486697	485981	4	Standard
⌊	**Ag**	**107**	**0.003**	ug/L	0.002	91	29	71	52	Standard
⌈>	**Tb**	**159**		ug/L			178618	179589	0	Standard
⌊	**Pb**	**208**	**0.000**	ug/L	0.006	1138	534	580	82	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVH
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 05:38:25
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21210	23250	6	Standard
⌈>	**Sc**	**45**		ug/L			512571	528228	1	Standard
|	**Cr**	**52**	**49.500**	ug/L	0.901	1	7952	681993	1	Standard
⌊	**Cr**	**53**	**48.349**	ug/L	0.150	0	75	77149	1	Standard
⌈>	**Ge**	**72**		ug/L			28784	30008	0	KED
|	**Ni**	**60**	**48.196**	ug/L	0.665	1	75	69599	1	KED
|	**Ni**	**62**	**47.638**	ug/L	0.836	1	12	11023	1	KED
|	**Cu**	**63**	**48.752**	ug/L	0.851	1	53	196743	1	KED
|	**Cu**	**65**	**49.349**	ug/L	0.352	0	25	102234	1	KED
|	**Zn**	**66**	**49.407**	ug/L	0.678	1	52	24567	0	KED
|	**Zn**	**67**	**49.504**	ug/L	0.874	1	8	4006	1	KED
⌊	**As**	**75**	**48.304**	ug/L	0.703	1	3	11630	1	KED
	Y	**89**		ug/L			50088	50276	3	Standard
	Kr	**83**		ug/L			44	66	8	Standard
⌈>	**In-1**	**115**		ug/L			6034	6120	0	KED
|	**Cd**	**111**	**51.184**	ug/L	0.659	1	1	11358	0	KED
⌊	**Cd**	**114**	**51.083**	ug/L	0.638	1	1	29165	1	KED
⌈>	**In**	**115**		ug/L			486697	478764	0	Standard
⌊	**Ag**	**107**	**46.724**	ug/L	0.422	0	29	735777	0	Standard
⌈>	**Tb**	**159**		ug/L			178618	184982	1	Standard
⌊	**Pb**	**208**	**55.526**	ug/L	1.157	2	534	4914953	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBH
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 05:45:34
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21210	22826	1	Standard
⌈>	**Sc**	**45**		ug/L			512571	514605	2	Standard
|	**Cr**	**52**	**-0.006**	ug/L	0.008	138	7952	7911	3	Standard
⌊	**Cr**	**53**	**-0.008**	ug/L	0.004	46	75	63	11	Standard
⌈>	**Ge**	**72**		ug/L			28784	29448	0	KED
|	**Ni**	**60**	**-0.017**	ug/L	0.016	91	75	53	40	KED
|	**Ni**	**62**	**-0.007**	ug/L	0.017	238	12	11	33	KED
|	**Cu**	**63**	**-0.004**	ug/L	0.007	195	53	40	68	KED
|	**Cu**	**65**	**-0.003**	ug/L	0.001	21	25	20	5	KED
|	**Zn**	**66**	**-0.051**	ug/L	0.018	36	52	29	30	KED
|	**Zn**	**67**	**-0.082**	ug/L	0.024	29	8	1	100	KED
⌊	**As**	**75**	**0.006**	ug/L	0.006	98	3	5	26	KED
	Y	**89**		ug/L			50088	48607	1	Standard
	Kr	**83**		ug/L			44	52	12	Standard
⌈>	**In-1**	**115**		ug/L			6034	6091	2	KED
|	**Cd**	**111**	**-0.003**	ug/L	0.004	139	1	0	100	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.002	90	1	2	45	KED
⌈>	**In**	**115**		ug/L			486697	473300	0	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.000	11	29	50	5	Standard
⌈>	**Tb**	**159**		ug/L			178618	179990	0	Standard
⌊	**Pb**	**208**	**-0.003**	ug/L	0.001	15	534	251	17	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0477-14
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 05:50:01
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21210	40592	5	Standard
⌈>	**Sc**	**45**		ug/L			512571	625583	3	Standard
|	**Cr**	**52**	**0.332**	ug/L	0.007	1	7952	15056	3	Standard
⌊	**Cr**	**53**	**1.924**	ug/L	0.015	0	75	3723	3	Standard
⌈>	**Ge**	**72**		ug/L			28784	28463	2	KED
|	**Ni**	**60**	**1.957**	ug/L	0.061	3	75	2750	1	KED
|	**Ni**	**62**	**2.020**	ug/L	0.030	1	12	455	1	KED
|	**Cu**	**63**	**9.385**	ug/L	0.272	2	53	35960	2	KED
|	**Cu**	**65**	**9.404**	ug/L	0.188	2	25	18493	0	KED
|	**Zn**	**66**	**10.817**	ug/L	0.187	1	52	5141	1	KED
|	**Zn**	**67**	**11.789**	ug/L	0.263	2	8	911	2	KED
⌊	**As**	**75**	**20.812**	ug/L	0.559	2	3	4753	0	KED
	Y	**89**		ug/L			50088	53972	1	Standard
	Kr	**83**		ug/L			44	42	15	Standard
⌈>	**In-1**	**115**		ug/L			6034	6071	0	KED
|	**Cd**	**111**	**0.141**	ug/L	0.013	8	1	32	8	KED
⌊	**Cd**	**114**	**0.100**	ug/L	0.004	4	1	57	5	KED
⌈>	**In**	**115**		ug/L			486697	454002	2	Standard
⌊	**Ag**	**107**	**0.026**	ug/L	0.002	7	29	414	5	Standard
⌈>	**Tb**	**159**		ug/L			178618	181226	2	Standard
⌊	**Pb**	**208**	**0.990**	ug/L	0.014	1	534	86358	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0477-16
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 05:54:26
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21210	43420	6	Standard
⌈>	**Sc**	**45**		ug/L			512571	546125	1	Standard
|	**Cr**	**52**	**0.647**	ug/L	0.033	5	7952	17577	4	Standard
⌊	**Cr**	**53**	**0.675**	ug/L	0.033	4	75	1193	4	Standard
⌈>	**Ge**	**72**		ug/L			28784	30240	0	KED
|	**Ni**	**60**	**0.675**	ug/L	0.035	5	75	1059	4	KED
|	**Ni**	**62**	**0.602**	ug/L	0.023	3	12	153	3	KED
|	**Cu**	**63**	**5.711**	ug/L	0.106	1	53	23274	1	KED
|	**Cu**	**65**	**5.569**	ug/L	0.142	2	25	11649	2	KED
|	**Zn**	**66**	**29.892**	ug/L	0.254	0	52	15000	0	KED
|	**Zn**	**67**	**28.725**	ug/L	0.734	2	8	2346	2	KED
⌊	**As**	**75**	**3.914**	ug/L	0.061	1	3	953	1	KED
	Y	**89**		ug/L			50088	54733	0	Standard
	Kr	**83**		ug/L			44	45	8	Standard
⌈>	**In-1**	**115**		ug/L			6034	6139	2	KED
|	**Cd**	**111**	**0.037**	ug/L	0.002	5	1	9	5	KED
⌊	**Cd**	**114**	**0.014**	ug/L	0.004	28	1	8	22	KED
⌈>	**In**	**115**		ug/L			486697	497849	1	Standard
⌊	**Ag**	**107**	**0.003**	ug/L	0.001	25	29	85	15	Standard
⌈>	**Tb**	**159**		ug/L			178618	190840	1	Standard
⌊	**Pb**	**208**	**0.300**	ug/L	0.005	1	534	27994	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0477-18
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 05:58:51
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21210	41506	5	Standard
⌈>	**Sc**	**45**		ug/L			512571	563971	1	Standard
|	**Cr**	**52**	**0.879**	ug/L	0.056	6	7952	21514	2	Standard
⌊	**Cr**	**53**	**0.921**	ug/L	0.009	1	75	1650	1	Standard
⌈>	**Ge**	**72**		ug/L			28784	29591	0	KED
|	**Ni**	**60**	**0.841**	ug/L	0.034	4	75	1274	4	KED
|	**Ni**	**62**	**0.988**	ug/L	0.174	17	12	238	16	KED
|	**Cu**	**63**	**3.718**	ug/L	0.097	2	53	14845	2	KED
|	**Cu**	**65**	**3.603**	ug/L	0.056	1	25	7384	1	KED
|	**Zn**	**66**	**16.875**	ug/L	0.347	2	52	8310	1	KED
|	**Zn**	**67**	**16.131**	ug/L	1.579	9	8	1292	9	KED
⌊	**As**	**75**	**1.797**	ug/L	0.041	2	3	430	1	KED
	Y	**89**		ug/L			50088	56214	2	Standard
	Kr	**83**		ug/L			44	30	21	Standard
⌈>	**In-1**	**115**		ug/L			6034	6314	4	KED
|	**Cd**	**111**	**0.008**	ug/L	0.006	69	1	3	31	KED
⌊	**Cd**	**114**	**0.011**	ug/L	0.006	60	1	7	52	KED
⌈>	**In**	**115**		ug/L			486697	482029	1	Standard
⌊	**Ag**	**107**	**0.005**	ug/L	0.001	24	29	115	18	Standard
⌈>	**Tb**	**159**		ug/L			178618	192728	0	Standard
⌊	**Pb**	**208**	**0.200**	ug/L	0.003	1	534	19033	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0477-01
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 06:03:17
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21210	35873	2	Standard
⌈>	**Sc**	**45**		ug/L			512571	619987	1	Standard
|	**Cr**	**52**	**1.104**	ug/L	0.004	0	7952	27252	2	Standard
⌊	**Cr**	**53**	**1.258**	ug/L	0.032	2	75	2444	3	Standard
⌈>	**Ge**	**72**		ug/L			28784	29585	1	KED
|	**Ni**	**60**	**1.906**	ug/L	0.066	3	75	2788	4	KED
|	**Ni**	**62**	**1.874**	ug/L	0.068	3	12	440	2	KED
|	**Cu**	**63**	**11.407**	ug/L	0.361	3	53	45418	2	KED
|	**Cu**	**65**	**10.967**	ug/L	0.111	1	25	22416	0	KED
|	**Zn**	**66**	**60.525**	ug/L	0.205	0	52	29659	1	KED
|	**Zn**	**67**	**58.668**	ug/L	1.256	2	8	4678	1	KED
⌊	**As**	**75**	**14.694**	ug/L	0.332	2	3	3490	1	KED
	Y	**89**		ug/L			50088	54055	0	Standard
	Kr	**83**		ug/L			44	48	13	Standard
⌈>	**In-1**	**115**		ug/L			6034	6021	0	KED
|	**Cd**	**111**	**0.100**	ug/L	0.018	17	1	23	16	KED
⌊	**Cd**	**114**	**0.090**	ug/L	0.014	15	1	51	15	KED
⌈>	**In**	**115**		ug/L			486697	482814	0	Standard
⌊	**Ag**	**107**	**0.034**	ug/L	0.002	6	29	575	6	Standard
⌈>	**Tb**	**159**		ug/L			178618	185868	0	Standard
⌊	**Pb**	**208**	**1.077**	ug/L	0.010	0	534	96390	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0477-03
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 06:07:42
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			21210	43263	3	Standard
⌈>	Sc	45		ug/L			512571	531042	1	Standard
|	Cr	52	0.707	ug/L	0.019	2	7952	17913	1	Standard
⌊	Cr	53	0.767	ug/L	0.021	2	75	1306	3	Standard
⌈>	Ge	72		ug/L			28784	29609	0	KED
|	Ni	60	0.786	ug/L	0.054	6	75	1195	5	KED
|	Ni	62	0.839	ug/L	0.050	5	12	204	5	KED
|	Cu	63	5.822	ug/L	0.067	1	53	23229	0	KED
|	Cu	65	5.535	ug/L	0.116	2	25	11336	1	KED
|	Zn	66	13.078	ug/L	0.235	1	52	6456	0	KED
|	Zn	67	12.540	ug/L	0.549	4	8	1007	4	KED
⌊	As	75	1.716	ug/L	0.082	4	3	411	5	KED
	Y	89		ug/L			50088	53989	0	Standard
	Kr	83		ug/L			44	57	29	Standard
⌈>	In-1	115		ug/L			6034	6197	2	KED
|	Cd	111	0.015	ug/L	0.005	29	1	5	21	KED
⌊	Cd	114	0.014	ug/L	0.014	94	1	9	80	KED
⌈>	In	115		ug/L			486697	493755	1	Standard
⌊	Ag	107	0.089	ug/L	0.007	7	29	1466	6	Standard
⌈>	Tb	159		ug/L			178618	188017	0	Standard
⌊	Pb	208	0.305	ug/L	0.004	1	534	28030	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0477-07
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 06:12:07
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			21210	36616	2	Standard
⌈>	Sc	45		ug/L			512571	609800	2	Standard
|	Cr	52	0.487	ug/L	0.028	5	7952	17107	3	Standard
⌊	Cr	53	0.596	ug/L	0.001	0	75	1187	2	Standard
⌈>	Ge	72		ug/L			28784	28812	2	KED
|	Ni	60	1.347	ug/L	0.050	3	75	1939	0	KED
|	Ni	62	1.268	ug/L	0.098	7	12	293	6	KED
|	Cu	63	10.734	ug/L	0.298	2	53	41615	0	KED
|	Cu	65	10.264	ug/L	0.203	1	25	20429	0	KED
|	Zn	66	7.755	ug/L	0.118	1	52	3746	1	KED
|	Zn	67	8.262	ug/L	0.482	5	8	648	3	KED
⌊	As	75	27.631	ug/L	0.581	2	3	6386	0	KED
	Y	89		ug/L			50088	52863	1	Standard
	Kr	83		ug/L			44	45	7	Standard
⌈>	In-1	115		ug/L			6034	5973	0	KED
|	Cd	111	0.142	ug/L	0.021	14	1	32	13	KED
⌊	Cd	114	0.136	ug/L	0.023	17	1	76	16	KED
⌈>	In	115		ug/L			486697	471762	1	Standard
⌊	Ag	107	0.032	ug/L	0.001	3	29	520	5	Standard
⌈>	Tb	159		ug/L			178618	184829	1	Standard
⌊	Pb	208	2.682	ug/L	0.056	2	534	237695	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0477-09
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 06:16:32
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21210	35157	5	Standard
⌈>	**Sc**	**45**		ug/L			512571	618826	2	Standard
|	**Cr**	**52**	**0.520**	ug/L	0.025	4	7952	17896	2	Standard
⌊	**Cr**	**53**	**0.627**	ug/L	0.026	4	75	1260	3	Standard
⌈>	**Ge**	**72**		ug/L			28784	28728	0	KED
|	**Ni**	**60**	**1.391**	ug/L	0.040	2	75	1996	3	KED
|	**Ni**	**62**	**1.401**	ug/L	0.054	3	12	322	2	KED
|	**Cu**	**63**	**10.972**	ug/L	0.175	1	53	42431	1	KED
|	**Cu**	**65**	**10.761**	ug/L	0.087	0	25	21361	0	KED
|	**Zn**	**66**	**7.901**	ug/L	0.123	1	52	3805	2	KED
|	**Zn**	**67**	**8.117**	ug/L	0.560	6	8	635	6	KED
⌊	**As**	**75**	**29.103**	ug/L	0.478	1	3	6709	1	KED
	Y	**89**		ug/L			50088	55720	3	Standard
	Kr	**83**		ug/L			44	47	21	Standard
⌈>	**In-1**	**115**		ug/L			6034	6067	2	KED
|	**Cd**	**111**	**0.152**	ug/L	0.036	23	1	35	24	KED
⌊	**Cd**	**114**	**0.154**	ug/L	0.026	16	1	88	18	KED
⌈>	**In**	**115**		ug/L			486697	464844	1	Standard
⌊	**Ag**	**107**	**0.031**	ug/L	0.002	7	29	503	6	Standard
⌈>	**Tb**	**159**		ug/L			178618	185300	1	Standard
⌊	**Pb**	**208**	**2.712**	ug/L	0.064	2	534	240965	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0477-15
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 06:20:52
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21210	39624	4	Standard
⌈>	**Sc**	**45**		ug/L			512571	537265	2	Standard
|	**Cr**	**52**	**1.179**	ug/L	0.044	3	7952	24668	3	Standard
⌊	**Cr**	**53**	**1.177**	ug/L	0.016	1	75	1987	3	Standard
⌈>	**Ge**	**72**		ug/L			28784	29689	1	KED
|	**Ni**	**60**	**1.227**	ug/L	0.038	3	75	1828	1	KED
|	**Ni**	**62**	**1.280**	ug/L	0.124	9	12	306	10	KED
|	**Cu**	**63**	**25.781**	ug/L	1.054	4	53	102918	2	KED
|	**Cu**	**65**	**25.054**	ug/L	0.251	1	25	51356	0	KED
|	**Zn**	**66**	**49.987**	ug/L	1.395	2	52	24584	1	KED
|	**Zn**	**67**	**48.808**	ug/L	1.051	2	8	3907	0	KED
⌊	**As**	**75**	**7.808**	ug/L	0.282	3	3	1862	2	KED
	Y	**89**		ug/L			50088	56736	3	Standard
	Kr	**83**		ug/L			44	47	12	Standard
⌈>	**In-1**	**115**		ug/L			6034	6201	2	KED
|	**Cd**	**111**	**0.093**	ug/L	0.012	13	1	22	9	KED
⌊	**Cd**	**114**	**0.076**	ug/L	0.022	28	1	44	25	KED
⌈>	**In**	**115**		ug/L			486697	493967	0	Standard
⌊	**Ag**	**107**	**0.082**	ug/L	0.002	2	29	1368	2	Standard
⌈>	**Tb**	**159**		ug/L			178618	190178	2	Standard
⌊	**Pb**	**208**	**5.513**	ug/L	0.179	3	534	502033	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0487-02
Sample Dil Factor: 5
Comments:
Sample Date/Time: Thursday, May 11, 2023 06:26:41
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21210	35825	0	Standard
⌈>	**Sc**	**45**		ug/L			512571	562560	1	Standard
|	**Cr**	**52**	**1.220**	ug/L	0.017	1	7952	26415	1	Standard
⌊	**Cr**	**53**	**1.264**	ug/L	0.015	1	75	2229	1	Standard
⌈>	**Ge**	**72**		ug/L			28784	29752	1	KED
|	**Ni**	**60**	**6.548**	ug/L	0.096	1	75	9441	0	KED
|	**Ni**	**62**	**6.686**	ug/L	0.384	5	12	1544	5	KED
|	**Cu**	**63**	**0.176**	ug/L	0.010	5	53	761	4	KED
|	**Cu**	**65**	**0.180**	ug/L	0.017	9	25	395	8	KED
|	**Zn**	**66**	**0.527**	ug/L	0.056	10	52	313	7	KED
|	**Zn**	**67**	**0.901**	ug/L	0.142	15	8	80	13	KED
⌊	**As**	**75**	**15.233**	ug/L	0.237	1	3	3638	1	KED
	Y	**89**		ug/L			50088	79316	0	Standard
	Kr	**83**		ug/L			44	40	4	Standard
⌈>	**In-1**	**115**		ug/L			6034	6266	0	KED
|	**Cd**	**111**	**0.003**	ug/L	0.013	536	1	2	137	KED
⌊	**Cd**	**114**	**0.004**	ug/L	0.000	0	1	3	0	KED
⌈>	**In**	**115**		ug/L			486697	468178	0	Standard
⌊	**Ag**	**107**	**0.005**	ug/L	0.000	7	29	112	6	Standard
⌈>	**Tb**	**159**		ug/L			178618	187920	2	Standard
⌊	**Pb**	**208**	**0.034**	ug/L	0.001	3	534	3577	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLH
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 06:31:07
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21210	23115	4	Standard
⌈>	**Sc**	**45**		ug/L			512571	517740	2	Standard
|	**Cr**	**52**	**0.013**	ug/L	0.006	48	7952	8202	1	Standard
⌊	**Cr**	**53**	**0.001**	ug/L	0.008	1453	75	77	19	Standard
⌈>	**Ge**	**72**		ug/L			28784	29261	1	KED
|	**Ni**	**60**	**-0.015**	ug/L	0.011	73	75	55	29	KED
|	**Ni**	**62**	**-0.018**	ug/L	0.018	103	12	8	44	KED
|	**Cu**	**63**	**-0.005**	ug/L	0.001	27	53	33	17	KED
|	**Cu**	**65**	**-0.001**	ug/L	0.005	613	25	24	43	KED
|	**Zn**	**66**	**-0.060**	ug/L	0.017	28	52	24	33	KED
|	**Zn**	**67**	**-0.082**	ug/L	0.000	0	8	1		KED
⌊	**As**	**75**	**-0.004**	ug/L	0.009	212	3	2	72	KED
	Y	**89**		ug/L			50088	49988	1	Standard
	Kr	**83**		ug/L			44	55	15	Standard
⌈>	**In-1**	**115**		ug/L			6034	6137	0	KED
|	**Cd**	**111**	**-0.003**	ug/L	0.004	144	1	0	100	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.002	176	1	0	180	KED
⌈>	**In**	**115**		ug/L			486697	486698	2	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.001	57	29	12	77	Standard
⌈>	**Tb**	**159**		ug/L			178618	183514	1	Standard
⌊	**Pb**	**208**	**-0.004**	ug/L	0.000	3	534	240	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVI
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 06:35:33
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21210	23784	6	Standard
⌈>	**Sc**	**45**		ug/L			512571	524165	1	Standard
|	**Cr**	**52**	**50.223**	ug/L	1.690	3	7952	686346	2	Standard
⌊	**Cr**	**53**	**48.285**	ug/L	0.163	0	75	76453	1	Standard
⌈>	**Ge**	**72**		ug/L			28784	29553	1	KED
|	**Ni**	**60**	**49.754**	ug/L	0.656	1	75	70745	0	KED
|	**Ni**	**62**	**50.882**	ug/L	3.005	5	12	11590	4	KED
|	**Cu**	**63**	**50.319**	ug/L	1.412	2	53	199933	1	KED
|	**Cu**	**65**	**49.530**	ug/L	0.589	1	25	101036	0	KED
|	**Zn**	**66**	**50.795**	ug/L	1.374	2	52	24867	1	KED
|	**Zn**	**67**	**50.525**	ug/L	1.241	2	8	4025	1	KED
⌊	**As**	**75**	**50.135**	ug/L	0.843	1	3	11885	1	KED
	Y	**89**		ug/L			50088	50673	2	Standard
	Kr	**83**		ug/L			44	55	21	Standard
⌈>	**In-1**	**115**		ug/L			6034	6213	2	KED
|	**Cd**	**111**	**49.407**	ug/L	1.725	3	1	11124	0	KED
⌊	**Cd**	**114**	**50.485**	ug/L	1.873	3	1	29245	1	KED
⌈>	**In**	**115**		ug/L			486697	478603	2	Standard
⌊	**Ag**	**107**	**46.759**	ug/L	0.518	1	29	736095	2	Standard
⌈>	**Tb**	**159**		ug/L			178618	187493	1	Standard
⌊	**Pb**	**208**	**54.257**	ug/L	1.080	1	534	4867949	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBI
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 06:42:43
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21210	22705	3	Standard
⌈>	**Sc**	**45**		ug/L			512571	510222	2	Standard
|	**Cr**	**52**	**0.004**	ug/L	0.015	349	7952	7968	2	Standard
⌊	**Cr**	**53**	**0.001**	ug/L	0.003	207	75	77	6	Standard
⌈>	**Ge**	**72**		ug/L			28784	29563	0	KED
|	**Ni**	**60**	**-0.021**	ug/L	0.008	38	75	48	23	KED
|	**Ni**	**62**	**-0.021**	ug/L	0.032	151	12	8	87	KED
|	**Cu**	**63**	**-0.005**	ug/L	0.002	42	53	33	27	KED
|	**Cu**	**65**	**-0.003**	ug/L	0.004	155	25	20	43	KED
|	**Zn**	**66**	**-0.064**	ug/L	0.010	15	52	22	22	KED
|	**Zn**	**67**	**-0.051**	ug/L	0.060	118	8	4	107	KED
⌊	**As**	**75**	**0.002**	ug/L	0.007	315	3	4	37	KED
	Y	**89**		ug/L			50088	49119	4	Standard
	Kr	**83**		ug/L			44	40	5	Standard
⌈>	**In-1**	**115**		ug/L			6034	6359	0	KED
|	**Cd**	**111**	**0.004**	ug/L	0.005	126	1	2	43	KED
⌊	**Cd**	**114**	**0.002**	ug/L	0.004	182	1	2	92	KED
⌈>	**In**	**115**		ug/L			486697	484923	2	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.002	141	29	45	50	Standard
⌈>	**Tb**	**159**		ug/L			178618	182782	1	Standard
⌊	**Pb**	**208**	**-0.003**	ug/L	0.000	6	534	264	6	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0487-06
Sample Dil Factor: 2
Comments:
Sample Date/Time: Thursday, May 11, 2023 06:47:09
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21210	32134	4	Standard
⌈>	**Sc**	**45**		ug/L			512571	622588	1	Standard
|	**Cr**	**52**	**0.373**	ug/L	0.016	4	7952	15647	2	Standard
⌊	**Cr**	**53**	**0.480**	ug/L	0.009	1	75	994	3	Standard
⌈>	**Ge**	**72**		ug/L			28784	28304	2	KED
|	**Ni**	**60**	**1.014**	ug/L	0.054	5	75	1452	2	KED
|	**Ni**	**62**	**1.030**	ug/L	0.099	9	12	236	7	KED
|	**Cu**	**63**	**0.040**	ug/L	0.006	14	53	205	8	KED
|	**Cu**	**65**	**0.036**	ug/L	0.013	35	25	94	23	KED
|	**Zn**	**66**	**0.740**	ug/L	0.013	1	52	398	4	KED
|	**Zn**	**67**	**1.054**	ug/L	0.107	10	8	88	6	KED
⌊	**As**	**75**	**19.230**	ug/L	0.660	3	3	4366	1	KED
	Y	**89**		ug/L			50088	69538	3	Standard
	Kr	**83**		ug/L			44	30	16	Standard
⌈>	**In-1**	**115**		ug/L			6034	5855	1	KED
|	**Cd**	**111**	**0.005**	ug/L	0.005	108	1	2	43	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.003	349	1	1	112	KED
⌈>	**In**	**115**		ug/L			486697	442888	2	Standard
⌊	**Ag**	**107**	**0.002**	ug/L	0.000	14	29	52	5	Standard
⌈>	**Tb**	**159**		ug/L			178618	176146	1	Standard
⌊	**Pb**	**208**	**0.007**	ug/L	0.000	4	534	1141	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0487-05
Sample Dil Factor: 2
Comments:
Sample Date/Time: Thursday, May 11, 2023 06:51:34
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21210	32551	2	Standard
⌈>	**Sc**	**45**		ug/L			512571	622587	2	Standard
|	**Cr**	**52**	**0.412**	ug/L	0.016	3	7952	16267	3	Standard
⌊	**Cr**	**53**	**0.486**	ug/L	0.013	2	75	1004	5	Standard
⌈>	**Ge**	**72**		ug/L			28784	27718	2	KED
|	**Ni**	**60**	**1.154**	ug/L	0.065	5	75	1610	4	KED
|	**Ni**	**62**	**1.189**	ug/L	0.121	10	12	266	10	KED
|	**Cu**	**63**	**0.037**	ug/L	0.001	3	53	189	3	KED
|	**Cu**	**65**	**0.039**	ug/L	0.008	21	25	99	15	KED
|	**Zn**	**66**	**0.454**	ug/L	0.039	8	52	259	7	KED
|	**Zn**	**67**	**0.737**	ug/L	0.045	6	8	62	3	KED
⌊	**As**	**75**	**17.452**	ug/L	0.167	0	3	3882	1	KED
	Y	**89**		ug/L			50088	70299	3	Standard
	Kr	**83**		ug/L			44	43	23	Standard
⌈>	**In-1**	**115**		ug/L			6034	5780	1	KED
|	**Cd**	**111**	**0.008**	ug/L	0.010	120	1	3	62	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.004	267	1	1	106	KED
⌈>	**In**	**115**		ug/L			486697	454628	1	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.000	19	29	44	6	Standard
⌈>	**Tb**	**159**		ug/L			178618	178896	0	Standard
⌊	**Pb**	**208**	**0.003**	ug/L	0.001	20	534	808	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0487-04
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 06:55:54
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21210	43951	2	Standard
⌈>	**Sc**	**45**		ug/L			512571	611223	0	Standard
|	**Cr**	**52**	**0.674**	ug/L	0.028	4	7952	20103	2	Standard
⌊	**Cr**	**53**	**0.801**	ug/L	0.030	3	75	1567	4	Standard
⌈>	**Ge**	**72**		ug/L			28784	27657	2	KED
|	**Ni**	**60**	**4.379**	ug/L	0.108	2	75	5891	1	KED
|	**Ni**	**62**	**4.412**	ug/L	0.139	3	12	951	2	KED
|	**Cu**	**63**	**5.152**	ug/L	0.035	0	53	19209	2	KED
|	**Cu**	**65**	**5.031**	ug/L	0.155	3	25	9622	1	KED
|	**Zn**	**66**	**9.989**	ug/L	0.373	3	52	4615	1	KED
|	**Zn**	**67**	**10.437**	ug/L	0.353	3	8	784	4	KED
⌊	**As**	**75**	**4.605**	ug/L	0.101	2	3	1024	1	KED
	Y	**89**		ug/L			50088	69977	3	Standard
	Kr	**83**		ug/L			44	36	15	Standard
⌈>	**In-1**	**115**		ug/L			6034	5721	3	KED
|	**Cd**	**111**	**0.307**	ug/L	0.017	5	1	65	3	KED
⌊	**Cd**	**114**	**0.269**	ug/L	0.048	17	1	143	14	KED
⌈>	**In**	**115**		ug/L			486697	463308	0	Standard
⌊	**Ag**	**107**	**0.017**	ug/L	0.002	11	29	289	9	Standard
⌈>	**Tb**	**159**		ug/L			178618	184294	0	Standard
⌊	**Pb**	**208**	**0.306**	ug/L	0.004	1	534	27565	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0487-03
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 07:00:43
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21210	34930	6	Standard
⌈>	**Sc**	**45**		ug/L			512571	627875	1	Standard
|	**Cr**	**52**	**0.380**	ug/L	0.019	5	7952	15891	1	Standard
⌊	**Cr**	**53**	**0.553**	ug/L	0.025	4	75	1139	4	Standard
⌈>	**Ge**	**72**		ug/L			28784	27514	0	KED
|	**Ni**	**60**	**2.436**	ug/L	0.075	3	75	3293	3	KED
|	**Ni**	**62**	**2.256**	ug/L	0.038	1	12	490	1	KED
|	**Cu**	**63**	**1.485**	ug/L	0.027	1	53	5545	1	KED
|	**Cu**	**65**	**1.415**	ug/L	0.035	2	25	2711	2	KED
|	**Zn**	**66**	**1.359**	ug/L	0.066	4	52	668	4	KED
|	**Zn**	**67**	**1.908**	ug/L	0.317	16	8	149	15	KED
⌊	**As**	**75**	**1.535**	ug/L	0.082	5	3	342	5	KED
	Y	**89**		ug/L			50088	68173	1	Standard
	Kr	**83**		ug/L			44	43	9	Standard
⌈>	**In-1**	**115**		ug/L			6034	5812	3	KED
|	**Cd**	**111**	**0.046**	ug/L	0.015	32	1	11	24	KED
⌊	**Cd**	**114**	**0.042**	ug/L	0.011	26	1	23	25	KED
⌈>	**In**	**115**		ug/L			486697	461876	0	Standard
⌊	**Ag**	**107**	**0.004**	ug/L	0.000	2	29	84	1	Standard
⌈>	**Tb**	**159**		ug/L			178618	183150	1	Standard
⌊	**Pb**	**208**	**0.017**	ug/L	0.001	6	534	2074	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLI
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 07:05:10
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21210	24777	4	Standard
⌈>	**Sc**	**45**		ug/L			512571	495765	2	Standard
|	**Cr**	**52**	**0.016**	ug/L	0.006	40	7952	7890	2	Standard
⌊	**Cr**	**53**	**0.005**	ug/L	0.003	57	75	79	6	Standard
⌈>	**Ge**	**72**		ug/L			28784	28451	2	KED
|	**Ni**	**60**	**-0.016**	ug/L	0.012	71	75	52	29	KED
|	**Ni**	**62**	**-0.014**	ug/L	0.001	8	12	9	0	KED
|	**Cu**	**63**	**-0.005**	ug/L	0.002	38	53	34	20	KED
|	**Cu**	**65**	**-0.005**	ug/L	0.002	41	25	15	25	KED
|	**Zn**	**66**	**-0.054**	ug/L	0.016	29	52	26	25	KED
|	**Zn**	**67**	**-0.064**	ug/L	0.039	60	8	3	91	KED
⌊	**As**	**75**	**-0.005**	ug/L	0.004	96	3	2	36	KED
	Y	**89**		ug/L			50088	48564	3	Standard
	Kr	**83**		ug/L			44	48	37	Standard
⌈>	**In-1**	**115**		ug/L			6034	5785	2	KED
|	**Cd**	**111**	**0.003**	ug/L	0.007	204	1	2	65	KED
⌊	**Cd**	**114**	**0.000**	ug/L	0.002	881	1	1	94	KED
⌈>	**In**	**115**		ug/L			486697	478635	2	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.000	34	29	12	45	Standard
⌈>	**Tb**	**159**		ug/L			178618	179215	1	Standard
⌊	**Pb**	**208**	**-0.003**	ug/L	0.000	11	534	261	10	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: 23D0636-01
Sample Dil Factor: 10
Comments:
Sample Date/Time: Thursday, May 11, 2023 07:09:36
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			21210	27281	2	Standard
⌈>	Sc	45		ug/L			512571	527974	2	Standard
|	Cr	52	0.531	ug/L	0.004	0	7952	15415	2	Standard
⌊	Cr	53	0.556	ug/L	0.057	10	75	962	8	Standard
⌈>	Ge	72		ug/L			28784	27707	0	KED
|	Ni	60	0.997	ug/L	0.030	3	75	1400	2	KED
|	Ni	62	0.972	ug/L	0.145	14	12	219	14	KED
|	Cu	63	1.671	ug/L	0.041	2	53	6275	1	KED
|	Cu	65	1.694	ug/L	0.063	3	25	3263	3	KED
|	Zn	66	3.878	ug/L	0.013	0	52	1827	0	KED
|	Zn	67	3.658	ug/L	0.276	7	8	280	6	KED
⌊	As	75	0.526	ug/L	0.028	5	3	120	4	KED
	Y	89		ug/L			50088	65167	0	Standard
	Kr	83		ug/L			44	40	24	Standard
⌈>	In-1	115		ug/L			6034	5801	4	KED
|	Cd	111	0.000	ug/L	0.006	1388	1	1	69	KED
⌊	Cd	114	0.005	ug/L	0.004	74	1	3	50	KED
⌈>	In	115		ug/L			486697	473435	2	Standard
⌊	Ag	107	0.001	ug/L	0.000	28	29	48	9	Standard
⌈>	Tb	159		ug/L			178618	186385	0	Standard
⌊	Pb	208	0.744	ug/L	0.012	1	534	66913	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0298-DUP1
Sample Dil Factor: 10
Comments:
Sample Date/Time: Thursday, May 11, 2023 07:14:25
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			21210	28530	3	Standard
⌈>	Sc	45		ug/L			512571	538334	0	Standard
|	Cr	52	0.537	ug/L	0.030	5	7952	15807	2	Standard
⌊	Cr	53	0.592	ug/L	0.045	7	75	1040	6	Standard
⌈>	Ge	72		ug/L			28784	28724	0	KED
|	Ni	60	0.998	ug/L	0.070	6	75	1452	6	KED
|	Ni	62	1.102	ug/L	0.076	6	12	256	6	KED
|	Cu	63	1.729	ug/L	0.041	2	53	6729	2	KED
|	Cu	65	1.667	ug/L	0.038	2	25	3329	1	KED
|	Zn	66	4.091	ug/L	0.104	2	52	1995	2	KED
|	Zn	67	4.288	ug/L	0.718	16	8	339	16	KED
⌊	As	75	0.560	ug/L	0.031	5	3	132	5	KED
	Y	89		ug/L			50088	65772	1	Standard
	Kr	83		ug/L			44	57	36	Standard
⌈>	In-1	115		ug/L			6034	6012	3	KED
|	Cd	111	0.014	ug/L	0.018	129	1	4	81	KED
⌊	Cd	114	0.010	ug/L	0.002	16	1	6	16	KED
⌈>	In	115		ug/L			486697	480605	1	Standard
⌊	Ag	107	0.001	ug/L	0.000	42	29	38	10	Standard
⌈>	Tb	159		ug/L			178618	189596	0	Standard
⌊	Pb	208	0.754	ug/L	0.014	1	534	68955	2	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0298-MS1
Sample Dil Factor: 10
Comments:
Sample Date/Time: Thursday, May 11, 2023 07:19:15
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			21210	27955	5	Standard
>	Sc	45		ug/L			512571	525581	2	Standard
	Cr	52	2.936	ug/L	0.034	1	7952	47911	2	Standard
	Cr	53	2.885	ug/L	0.053	1	75	4653	3	Standard
>	Ge	72		ug/L			28784	28593	2	KED
	Ni	60	3.498	ug/L	0.051	1	75	4881	1	KED
	Ni	62	3.654	ug/L	0.214	5	12	816	3	KED
	Cu	63	4.341	ug/L	0.156	3	53	16732	0	KED
	Cu	65	4.320	ug/L	0.187	4	25	8544	2	KED
	Zn	66	12.514	ug/L	0.258	2	52	5966	0	KED
	Zn	67	11.781	ug/L	0.398	3	8	914	5	KED
	As	75	3.033	ug/L	0.163	5	3	698	2	KED
	Y	89		ug/L			50088	67142	3	Standard
	Kr	83		ug/L			44	37	12	Standard
>	In-1	115		ug/L			6034	5883	2	KED
	Cd	111	2.582	ug/L	0.073	2	1	552	1	KED
	Cd	114	2.689	ug/L	0.054	2	1	1476	1	KED
>	In	115		ug/L			486697	479355	0	Standard
	Ag	107	2.061	ug/L	0.025	1	29	32527	1	Standard
>	Tb	159		ug/L			178618	182686	0	Standard
	Pb	208	3.600	ug/L	0.075	2	534	315263	1	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: BLE0298-MSD1
Sample Dil Factor: 10
Comments:
Sample Date/Time: Thursday, May 11, 2023 07:25:04
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	13		ug/L			21210	28749	4	Standard
⌈>	Sc	45		ug/L			512571	530124	2	Standard
|	Cr	52	2.822	ug/L	0.034	1	7952	46777	2	Standard
⌊	Cr	53	2.760	ug/L	0.057	2	75	4491	1	Standard
⌈>	Ge	72		ug/L			28784	28834	0	KED
|	Ni	60	3.466	ug/L	0.040	1	75	4878	1	KED
|	Ni	62	3.268	ug/L	0.068	2	12	738	2	KED
|	Cu	63	4.176	ug/L	0.095	2	53	16242	2	KED
|	Cu	65	4.187	ug/L	0.061	1	25	8358	1	KED
|	Zn	66	12.041	ug/L	0.301	2	52	5792	2	KED
|	Zn	67	11.364	ug/L	0.700	6	8	890	6	KED
⌊	As	75	2.958	ug/L	0.065	2	3	687	1	KED
	Y	89		ug/L			50088	66898	0	Standard
	Kr	83		ug/L			44	43	18	Standard
⌈>	In-1	115		ug/L			6034	6008	3	KED
|	Cd	111	2.402	ug/L	0.153	6	1	524	3	KED
⌊	Cd	114	2.457	ug/L	0.086	3	1	1378	4	KED
⌈>	In	115		ug/L			486697	486503	2	Standard
⌊	Ag	107	2.042	ug/L	0.032	1	29	32695	0	Standard
⌈>	Tb	159		ug/L			178618	185233	0	Standard
⌊	Pb	208	3.411	ug/L	0.010	0	534	302959	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-IBLJ
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 07:29:54
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21210	23093	3	Standard
⌈>	**Sc**	**45**		ug/L			512571	491451	2	Standard
|	**Cr**	**52**	**0.009**	ug/L	0.012	138	7952	7733	3	Standard
⌊	**Cr**	**53**	**-0.002**	ug/L	0.007	369	75	69	16	Standard
⌈>	**Ge**	**72**		ug/L			28784	28042	0	KED
|	**Ni**	**60**	**-0.015**	ug/L	0.005	33	75	53	12	KED
|	**Ni**	**62**	**-0.007**	ug/L	0.014	191	12	10	26	KED
|	**Cu**	**63**	**-0.006**	ug/L	0.002	28	53	28	24	KED
|	**Cu**	**65**	**-0.003**	ug/L	0.002	74	25	19	20	KED
|	**Zn**	**66**	**-0.049**	ug/L	0.032	65	52	28	52	KED
|	**Zn**	**67**	**-0.031**	ug/L	0.025	81	8	5	33	KED
⌊	**As**	**75**	**-0.007**	ug/L	0.005	79	3	2	53	KED
	Y	**89**		ug/L			50088	47507	2	Standard
	Kr	**83**		ug/L			44	39	2	Standard
⌈>	**In-1**	**115**		ug/L			6034	5851	3	KED
|	**Cd**	**111**	**0.002**	ug/L	0.005	256	1	1	50	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.002	208	1	0	188	KED
⌈>	**In**	**115**		ug/L			486697	482259	2	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.000	48	29	13	55	Standard
⌈>	**Tb**	**159**		ug/L			178618	176757	2	Standard
⌊	**Pb**	**208**	**-0.003**	ug/L	0.000	11	534	247	12	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCVJ
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 07:34:20
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21210	23085	4	Standard
⌈>	**Sc**	**45**		ug/L			512571	510290	2	Standard
|	**Cr**	**52**	**49.845**	ug/L	0.659	1	7952	663306	1	Standard
⌊	**Cr**	**53**	**49.254**	ug/L	0.241	0	75	75919	1	Standard
⌈>	**Ge**	**72**		ug/L			28784	28502	0	KED
|	**Ni**	**60**	**49.022**	ug/L	0.991	2	75	67228	1	KED
|	**Ni**	**62**	**49.233**	ug/L	0.674	1	12	10820	1	KED
|	**Cu**	**63**	**51.028**	ug/L	1.049	2	53	195577	1	KED
|	**Cu**	**65**	**50.266**	ug/L	0.362	0	25	98899	0	KED
|	**Zn**	**66**	**50.246**	ug/L	1.428	2	52	23728	2	KED
|	**Zn**	**67**	**49.533**	ug/L	0.241	0	8	3807	0	KED
⌊	**As**	**75**	**49.156**	ug/L	0.750	1	3	11240	1	KED
	Y	**89**		ug/L			50088	49783	0	Standard
	Kr	**83**		ug/L			44	61	7	Standard
⌈>	**In-1**	**115**		ug/L			6034	6026	1	KED
|	**Cd**	**111**	**50.412**	ug/L	0.446	0	1	11014	0	KED
⌊	**Cd**	**114**	**50.125**	ug/L	0.823	1	1	28176	2	KED
⌈>	**In**	**115**		ug/L			486697	469523	3	Standard
⌊	**Ag**	**107**	**45.677**	ug/L	1.580	3	29	704992	1	Standard
⌈>	**Tb**	**159**		ug/L			178618	183887	1	Standard
⌊	**Pb**	**208**	**55.762**	ug/L	1.321	2	534	4906643	0	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: SEQ-CCBJ
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 07:41:29
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21210	23317	1	Standard
⌈>	**Sc**	**45**		ug/L			512571	498254	1	Standard
|	**Cr**	**52**	**0.014**	ug/L	0.004	27	7952	7906	0	Standard
⌊	**Cr**	**53**	**-0.003**	ug/L	0.007	202	75	68	15	Standard
⌈>	**Ge**	**72**		ug/L			28784	28666	1	KED
|	**Ni**	**60**	**0.001**	ug/L	0.015	3020	75	76	29	KED
|	**Ni**	**62**	**-0.014**	ug/L	0.037	258	12	9	87	KED
|	**Cu**	**63**	**0.008**	ug/L	0.019	252	53	83	90	KED
|	**Cu**	**65**	**0.012**	ug/L	0.028	241	25	48	116	KED
|	**Zn**	**66**	**-0.042**	ug/L	0.036	85	52	33	53	KED
|	**Zn**	**67**	**-0.033**	ug/L	0.041	123	8	5	57	KED
⌊	**As**	**75**	**0.007**	ug/L	0.018	259	3	5	77	KED
	Y	**89**		ug/L			50088	47888	0	Standard
	Kr	**83**		ug/L			44	58	21	Standard
⌈>	**In-1**	**115**		ug/L			6034	5978	1	KED
|	**Cd**	**111**	**0.003**	ug/L	0.005	168	1	2	49	KED
⌊	**Cd**	**114**	**0.000**	ug/L	0.002	2472	1	1	86	KED
⌈>	**In**	**115**		ug/L			486697	472919	2	Standard
⌊	**Ag**	**107**	**0.001**	ug/L	0.001	115	29	41	35	Standard
⌈>	**Tb**	**159**		ug/L			178618	178659	0	Standard
⌊	**Pb**	**208**	**-0.003**	ug/L	0.000	7	534	267	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 07:45:55
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21210	25958	3	Standard
⌈>	**Sc**	**45**		ug/L			512571	564678	1	Standard
|	**Cr**	**52**	**0.004**	ug/L	0.014	382	7952	8811	1	Standard
⌊	**Cr**	**53**	**-0.007**	ug/L	0.004	53	75	70	7	Standard
⌈>	**Ge**	**72**		ug/L			28784	28993	1	KED
|	**Ni**	**60**	**-0.013**	ug/L	0.008	60	75	58	17	KED
|	**Ni**	**62**	**-0.023**	ug/L	0.009	37	12	7	25	KED
|	**Cu**	**63**	**-0.003**	ug/L	0.001	50	53	43	14	KED
|	**Cu**	**65**	**-0.002**	ug/L	0.003	109	25	20	24	KED
|	**Zn**	**66**	**-0.015**	ug/L	0.013	81	52	45	14	KED
|	**Zn**	**67**	**-0.000**	ug/L	0.052	15913	8	8	48	KED
⌊	**As**	**75**	**-0.008**	ug/L	0.008	108	3	2	96	KED
	Y	**89**		ug/L			50088	54349	1	Standard
	Kr	**83**		ug/L			44	48	48	Standard
⌈>	**In-1**	**115**		ug/L			6034	6353	3	KED
|	**Cd**	**111**	**-0.000**	ug/L	0.005	1172	1	1	69	KED
⌊	**Cd**	**114**	**-0.001**	ug/L	0.002	166	1	0	205	KED
⌈>	**In**	**115**		ug/L			486697	523133	3	Standard
⌊	**Ag**	**107**	**0.000**	ug/L	0.001	200	29	36	26	Standard
⌈>	**Tb**	**159**		ug/L			178618	196229	1	Standard
⌊	**Pb**	**208**	**-0.002**	ug/L	0.000	12	534	414	3	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 07:50:21
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21210	26612	5	Standard
⌈>	**Sc**	**45**		ug/L			512571	549525	3	Standard
|	**Cr**	**52**	**0.023**	ug/L	0.007	31	7952	8850	1	Standard
⌊	**Cr**	**53**	**-0.003**	ug/L	0.001	43	75	75	5	Standard
⌈>	**Ge**	**72**		ug/L			28784	29286	2	KED
|	**Ni**	**60**	**-0.020**	ug/L	0.016	81	75	48	43	KED
|	**Ni**	**62**	**-0.013**	ug/L	0.024	188	12	10	54	KED
|	**Cu**	**63**	**-0.003**	ug/L	0.003	86	53	43	25	KED
|	**Cu**	**65**	**-0.003**	ug/L	0.002	53	25	19	14	KED
|	**Zn**	**66**	**-0.008**	ug/L	0.028	351	52	49	25	KED
|	**Zn**	**67**	**-0.001**	ug/L	0.051	3767	8	8	48	KED
⌊	**As**	**75**	**-0.011**	ug/L	0.003	28	3	1	57	KED
	Y	**89**		ug/L			50088	54172	0	Standard
	Kr	**83**		ug/L			44	42	13	Standard
⌈>	**In-1**	**115**		ug/L			6034	6173	0	KED
|	**Cd**	**111**	**0.001**	ug/L	0.004	340	1	1	50	KED
⌊	**Cd**	**114**	**0.001**	ug/L	0.004	339	1	1	115	KED
⌈>	**In**	**115**		ug/L			486697	514395	3	Standard
⌊	**Ag**	**107**	**0.000**	ug/L	0.000	1870	29	31	18	Standard
⌈>	**Tb**	**159**		ug/L			178618	194120	0	Standard
⌊	**Pb**	**208**	**-0.002**	ug/L	0.000	15	534	381	7	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: RINSE
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 07:54:47
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21210	25778	3	Standard
⌈>	**Sc**	**45**		ug/L			512571	553078	2	Standard
|	**Cr**	**52**	**0.011**	ug/L	0.009	77	7952	8737	2	Standard
⌊	**Cr**	**53**	**0.005**	ug/L	0.006	133	75	89	11	Standard
⌈>	**Ge**	**72**		ug/L			28784	29423	0	KED
|	**Ni**	**60**	**-0.011**	ug/L	0.006	56	75	60	14	KED
|	**Ni**	**62**	**-0.004**	ug/L	0.027	647	12	12	50	KED
|	**Cu**	**63**	**-0.006**	ug/L	0.002	29	53	32	21	KED
|	**Cu**	**65**	**-0.005**	ug/L	0.002	36	25	15	25	KED
|	**Zn**	**66**	**-0.005**	ug/L	0.045	918	52	51	42	KED
|	**Zn**	**67**	**-0.018**	ug/L	0.037	204	8	6	41	KED
⌊	**As**	**75**	**-0.010**	ug/L	0.002	19	3	1	33	KED
	Y	**89**		ug/L			50088	54582	3	Standard
	Kr	**83**		ug/L			44	37	19	Standard
⌈>	**In-1**	**115**		ug/L			6034	6229	3	KED
|	**Cd**	**111**	**-0.003**	ug/L	0.004	129	1	0	100	KED
⌊	**Cd**	**114**	**-0.000**	ug/L	0.002	1785	1	1	98	KED
⌈>	**In**	**115**		ug/L			486697	520624	1	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.000	61	29	22	26	Standard
⌈>	**Tb**	**159**		ug/L			178618	196970	0	Standard
⌊	**Pb**	**208**	**-0.002**	ug/L	0.000	7	534	358	4	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 07:59:12
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21210	23586	4	Standard
⌈>	**Sc**	**45**		ug/L			512571	467022	2	Standard
|	**Cr**	**52**	**0.007**	ug/L	0.015	218	7952	7326	2	Standard
⌊	**Cr**	**53**	**-0.002**	ug/L	0.004	211	75	65	11	Standard
⌈>	**Ge**	**72**		ug/L			28784	27849	0	KED
|	**Ni**	**60**	**-0.039**	ug/L	0.002	6	75	20	15	KED
|	**Ni**	**62**	**-0.040**	ug/L	0.018	44	12	3	100	KED
|	**Cu**	**63**	**-0.009**	ug/L	0.001	14	53	19	26	KED
|	**Cu**	**65**	**-0.009**	ug/L	0.004	40	25	6	103	KED
|	**Zn**	**66**	**-0.064**	ug/L	0.006	9	52	21	13	KED
|	**Zn**	**67**	**-0.090**	ug/L	0.029	32	8	1	173	KED
⌊	**As**	**75**	**-0.004**	ug/L	0.006	157	3	2	44	KED
	Y	**89**		ug/L			50088	45718	0	Standard
	Kr	**83**		ug/L			44	45	4	Standard
⌈>	**In-1**	**115**		ug/L			6034	5676	2	KED
|	**Cd**	**111**	**-0.001**	ug/L	0.011	1009	1	1	173	KED
⌊	**Cd**	**114**	**0.000**	ug/L	0.002	909	1	1	90	KED
⌈>	**In**	**115**		ug/L			486697	443034	2	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.000	30	29	8	66	Standard
⌈>	**Tb**	**159**		ug/L			178618	170677	0	Standard
⌊	**Pb**	**208**	**-0.005**	ug/L	0.000	5	534	131	15	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 08:03:38
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21210	23858	2	Standard
⌈>	**Sc**	**45**		ug/L			512571	471059	2	Standard
|	**Cr**	**52**	**0.009**	ug/L	0.006	67	7952	7422	1	Standard
⌊	**Cr**	**53**	**-0.006**	ug/L	0.006	86	75	60	12	Standard
⌈>	**Ge**	**72**		ug/L			28784	28025	1	KED
|	**Ni**	**60**	**-0.034**	ug/L	0.005	13	75	27	22	KED
|	**Ni**	**62**	**-0.022**	ug/L	0.015	70	12	7	43	KED
|	**Cu**	**63**	**-0.007**	ug/L	0.001	15	53	25	17	KED
|	**Cu**	**65**	**-0.009**	ug/L	0.004	40	25	6	103	KED
|	**Zn**	**66**	**-0.072**	ug/L	0.014	19	52	17	34	KED
|	**Zn**	**67**	**-0.090**	ug/L	0.015	16	8	1	86	KED
⌊	**As**	**75**	**-0.003**	ug/L	0.005	147	3	3	32	KED
	Y	**89**		ug/L			50088	46999	2	Standard
	Kr	**83**		ug/L			44	50	21	Standard
⌈>	**In-1**	**115**		ug/L			6034	5675	3	KED
|	**Cd**	**111**	**-0.001**	ug/L	0.011	1342	1	1	173	KED
⌊	**Cd**	**114**	**0.004**	ug/L	0.002	47	1	3	33	KED
⌈>	**In**	**115**		ug/L			486697	453748	1	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.000	9	29	5	33	Standard
⌈>	**Tb**	**159**		ug/L			178618	170230	0	Standard
⌊	**Pb**	**208**	**-0.005**	ug/L	0.000	5	534	110	18	Standard

ICP-MS Quantitative Analysis - Summary Report

Sample ID: DI
Sample Dil Factor:
Comments:
Sample Date/Time: Thursday, May 11, 2023 08:08:04
Number of Replicates: 3
Method File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Method\200.8_DailyMethod_KED_UCT.mth
Tuning File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\MassCal\Default.tun
Optimization File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\Conditions\Default.dac
Calibration File: C:\Users\Public\Documents\PerkinElmer Syngistix\ICPMS\System\051023_A.cal

	Analyte	Mass	Conc. Mean	Units	Conc. SD	Conc. RSD	Blank Intens.	Meas. Intens.	Intens. RSD	Mode
	C	**13**		ug/L			21210	23298	4	Standard
⌈>	**Sc**	**45**		ug/L			512571	476857	3	Standard
|	**Cr**	**52**	**0.009**	ug/L	0.007	78	7952	7511	2	Standard
⌊	**Cr**	**53**	**-0.004**	ug/L	0.002	35	75	63	0	Standard
⌈>	**Ge**	**72**		ug/L			28784	27968	1	KED
|	**Ni**	**60**	**-0.032**	ug/L	0.007	20	75	30	28	KED
|	**Ni**	**62**	**-0.031**	ug/L	0.017	56	12	5	66	KED
|	**Cu**	**63**	**-0.009**	ug/L	0.001	9	53	17	19	KED
|	**Cu**	**65**	**-0.008**	ug/L	0.002	24	25	9	40	KED
|	**Zn**	**66**	**-0.050**	ug/L	0.005	10	52	27	7	KED
|	**Zn**	**67**	**-0.073**	ug/L	0.015	20	8	2	43	KED
⌊	**As**	**75**	**-0.008**	ug/L	0.004	46	3	1	43	KED
	Y	**89**		ug/L			50088	46307	0	Standard
	Kr	**83**		ug/L			44	41	18	Standard
⌈>	**In-1**	**115**		ug/L			6034	5740	3	KED
|	**Cd**	**111**	**0.007**	ug/L	0.012	183	1	2	88	KED
⌊	**Cd**	**114**	**-0.002**	ug/L	0.000	8	1	0	124	KED
⌈>	**In**	**115**		ug/L			486697	464061	3	Standard
⌊	**Ag**	**107**	**-0.001**	ug/L	0.000	23	29	10	43	Standard
⌈>	**Tb**	**159**		ug/L			178618	172358	0	Standard
⌊	**Pb**	**208**	**-0.005**	ug/L	0.000	2	534	118	7	Standard

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00007
Control Limt: +/- 10.00%
Sequence: SLE0017

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLE0017-ICV1	Arsenic-75a	50.000	48.1	96.3	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	50.4	101	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	50.6	101	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	53.2	106	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	52.3	105	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.4	103	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.1	102	ug/L	PA 6020B UCT-KE
SLE0017-CCV1	Arsenic-75a	50.000	49.7	99.3	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	52.0	104	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	50.9	102	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	50.8	102	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	50.2	100	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.1	102	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	49.7	99.5	ug/L	PA 6020B UCT-KE
SLE0017-CCV2	Arsenic-75a	50.000	50.1	100	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	50.2	100	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	50.6	101	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	52.0	104	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	51.1	102	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.7	103	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.1	102	ug/L	PA 6020B UCT-KE
SLE0017-CCV3	Arsenic-75a	50.000	49.9	99.8	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	52.2	104	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	51.5	103	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	52.0	104	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	52.7	105	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	52.3	105	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.4	103	ug/L	PA 6020B UCT-KE
SLE0017-CCV4	Arsenic-75a	50.000	50.3	101	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	51.8	104	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	51.5	103	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	52.9	106	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	53.0	106	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	52.3	105	ug/L	PA 6020B UCT-KE

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00007
Control Limt: +/- 10.00%
Sequence: SLE0017

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLE0017-CCV4	Zinc-67	50.000	51.8	104	ug/L	PA 6020B UCT-KE
SLE0017-CCV5	Arsenic-75a	50.000	49.3	98.7	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	50.9	102	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	51.1	102	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	53.1	106	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	52.0	104	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.6	103	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.2	100	ug/L	PA 6020B UCT-KE
SLE0017-CCV6	Arsenic-75a	50.000	49.8	99.6	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	51.5	103	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	51.7	103	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	51.5	103	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	51.7	103	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.4	103	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.4	103	ug/L	PA 6020B UCT-KE
SLE0017-CCV7	Arsenic-75a	50.000	49.5	99.1	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	51.2	102	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	50.2	100	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	52.3	105	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	51.7	103	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	52.2	104	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.7	101	ug/L	PA 6020B UCT-KE
SLE0017-CCV8	Arsenic-75a	50.000	49.6	99.1	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	50.7	101	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	50.9	102	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	51.1	102	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	50.4	101	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.4	103	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.7	101	ug/L	PA 6020B UCT-KE
SLE0017-CCV9	Arsenic-75a	50.000	49.5	99.0	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	50.5	101	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	49.8	99.6	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	51.8	104	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	51.7	103	ug/L	PA 6020B UCT-KE

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00007
Control Limt: +/- 10.00%
Sequence: SLE0017

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLE0017-CCV9	Zinc-66	50.000	51.3	103	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.7	101	ug/L	PA 6020B UCT-KE
SLE0017-CCVA	Arsenic-75a	50.000	50.0	100	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	50.9	102	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	50.8	102	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	52.0	104	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	50.7	101	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.5	103	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	52.0	104	ug/L	PA 6020B UCT-KE
SLE0017-CCVB	Arsenic-75a	50.000	50.0	99.9	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	51.7	103	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	51.4	103	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	51.5	103	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	50.7	101	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.1	102	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.3	101	ug/L	PA 6020B UCT-KE
SLE0017-CCVC	Arsenic-75a	50.000	49.7	99.4	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	51.9	104	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	51.6	103	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	52.2	104	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	51.1	102	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.8	104	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	49.9	99.7	ug/L	PA 6020B UCT-KE
SLE0017-CCVD	Arsenic-75a	50.000	50.1	100	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	50.5	101	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	51.0	102	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	52.8	106	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	52.0	104	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	52.6	105	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.7	103	ug/L	PA 6020B UCT-KE
SLE0017-CCVE	Arsenic-75a	50.000	49.6	99.2	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	50.8	102	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	50.1	100	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	51.2	102	ug/L	PA 6020B UCT-KE

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00007
Control Limt: +/- 10.00%
Sequence: SLE0017

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLE0017-CCVE	Copper-65	50.000	49.8	99.7	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.3	103	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.6	101	ug/L	PA 6020B UCT-KE
SLE0017-CCVF	Arsenic-75a	50.000	50.2	100	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	51.8	104	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	51.9	104	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	52.0	104	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	51.6	103	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	52.6	105	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.4	101	ug/L	PA 6020B UCT-KE
SLE0017-CCVG	Arsenic-75a	50.000	50.0	99.9	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	49.8	99.6	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	49.2	98.4	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	51.4	103	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	51.6	103	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.7	103	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.7	101	ug/L	PA 6020B UCT-KE
SLE0017-CCVH	Arsenic-75a	50.000	50.2	100	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	51.3	103	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	50.9	102	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	52.9	106	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	52.7	105	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	53.4	107	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	52.1	104	ug/L	PA 6020B UCT-KE
SLE0017-CCVI	Arsenic-75a	50.000	50.3	101	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	50.2	100	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	49.7	99.3	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	52.8	106	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	52.3	105	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	52.1	104	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	52.4	105	ug/L	PA 6020B UCT-KE
SLE0017-CCVJ	Arsenic-75a	50.000	49.6	99.2	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	51.0	102	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	51.2	102	ug/L	PA 6020B UCT-KE

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00007
Control Limt: +/- 10.00%
Sequence: SLE0017

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLE0017-CCVJ	Copper-63	50.000	52.2	104	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	51.4	103	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.6	103	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.1	102	ug/L	PA 6020B UCT-KE
SLE0017-CCVK	Arsenic-75a	50.000	49.8	99.6	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	52.0	104	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	51.7	103	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	52.7	105	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	52.3	105	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	52.0	104	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.1	102	ug/L	PA 6020B UCT-KE
SLE0017-CCVL	Arsenic-75a	50.000	51.2	102	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	51.6	103	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	52.2	104	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	55.0	110	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	54.1	108	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	55.1	110	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	52.3	105	ug/L	PA 6020B UCT-KE

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Control Limt: +/- 10.00%

SDG: 23C0071
Project: AOC5 MR Phase 1
Calibration: GE00013
Sequence: SLE0043

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLE0043-ICV1	Arsenic-75a	50.000	48.9	97.9	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	50.2	100	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	50.2	100	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	52.9	106	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	52.0	104	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	50.4	101	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	52.6	105	ug/L	PA 6020B UCT-KE
SLE0043-CCV1	Arsenic-75a	50.000	49.7	99.4	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	49.7	99.4	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	50.2	100	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	50.3	101	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	50.3	101	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	50.2	100	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.0	102	ug/L	PA 6020B UCT-KE
SLE0043-CCV2	Arsenic-75a	50.000	49.5	98.9	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	50.4	101	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	50.4	101	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	50.3	101	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	49.4	98.8	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	49.9	99.8	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.3	103	ug/L	PA 6020B UCT-KE
SLE0043-CCV3	Arsenic-75a	50.000	50.1	100	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	50.7	101	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	50.5	101	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	50.9	102	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	51.0	102	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	50.2	100	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.3	103	ug/L	PA 6020B UCT-KE
SLE0043-CCV4	Arsenic-75a	50.000	50.0	100	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	49.1	98.1	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	49.3	98.6	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	51.2	102	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	50.5	101	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	50.4	101	ug/L	PA 6020B UCT-KE

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00013
Control Limt: +/- 10.00%
Sequence: SLE0043

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLE0043-CCV4	Zinc-67	50.000	49.9	99.7	ug/L	PA 6020B UCT-KE
SLE0043-CCV5	Arsenic-75a	50.000	49.8	99.5	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	50.6	101	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	50.6	101	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	50.4	101	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	51.1	102	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	50.5	101	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	52.2	104	ug/L	PA 6020B UCT-KE
SLE0043-CCV6	Arsenic-75a	50.000	50.5	101	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	51.3	103	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	51.2	102	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	51.2	102	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	51.2	102	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	50.2	100	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.7	101	ug/L	PA 6020B UCT-KE
SLE0043-CCV7	Arsenic-75a	50.000	50.7	101	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	51.0	102	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	51.9	104	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	51.7	103	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	51.8	104	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.2	102	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	52.4	105	ug/L	PA 6020B UCT-KE
SLE0043-CCV8	Arsenic-75a	50.000	50.9	102	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	50.8	102	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	51.1	102	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	51.2	102	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	51.2	102	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.2	102	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.9	104	ug/L	PA 6020B UCT-KE
SLE0043-CCV9	Arsenic-75a	50.000	54.2	108	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	51.3	103	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	51.4	103	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	55.1	110	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	55.5	111	ug/L	PA 6020B UCT-KE

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00013
Control Limt: +/- 10.00%
Sequence: SLE0043

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLE0043-CCV9	Zinc-66	50.000	54.1	108	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	54.7	109	ug/L	PA 6020B UCT-KE
SLE0043-CCVA	Arsenic-75a	50.000	49.9	99.8	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	50.8	102	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	51.1	102	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	51.0	102	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	50.9	102	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	50.3	101	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.0	102	ug/L	PA 6020B UCT-KE
SLE0043-CCVB	Arsenic-75a	50.000	50.2	100	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	50.8	102	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	50.7	101	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	51.8	104	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	51.7	103	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.3	103	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.5	103	ug/L	PA 6020B UCT-KE
SLE0043-CCVC	Arsenic-75a	50.000	50.6	101	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	51.9	104	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	51.9	104	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	51.4	103	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	51.9	104	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	52.0	104	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.0	102	ug/L	PA 6020B UCT-KE
SLE0043-CCVD	Arsenic-75a	50.000	50.4	101	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	52.4	105	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	52.5	105	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	51.1	102	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	51.5	103	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.1	102	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.4	103	ug/L	PA 6020B UCT-KE
SLE0043-CCVE	Arsenic-75a	50.000	50.4	101	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	53.1	106	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	53.4	107	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	51.4	103	ug/L	PA 6020B UCT-KE

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00013
Control Limt: +/- 10.00%
Sequence: SLE0043

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLE0043-CCVE	Copper-65	50.000	51.9	104	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.3	103	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.7	101	ug/L	PA 6020B UCT-KE
SLE0043-CCVF	Arsenic-75a	50.000	51.1	102	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	52.9	106	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	52.7	105	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	52.4	105	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	52.4	105	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.8	104	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.8	104	ug/L	PA 6020B UCT-KE
SLE0043-CCVG	Arsenic-75a	50.000	51.6	103	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	51.3	103	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	51.1	102	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	53.3	107	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	53.6	107	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	52.3	105	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	53.8	108	ug/L	PA 6020B UCT-KE
SLE0043-CCVH	Arsenic-75a	50.000	51.0	102	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	52.3	105	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	53.0	106	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	53.0	106	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	52.3	105	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.3	103	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.1	102	ug/L	PA 6020B UCT-KE
SLE0043-CCVI	Arsenic-75a	50.000	50.5	101	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	54.0	108	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	54.4	109	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	52.7	105	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	52.8	106	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	52.5	105	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	52.5	105	ug/L	PA 6020B UCT-KE
SLE0043-CCVJ	Arsenic-75a	50.000	51.7	103	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	52.6	105	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	53.3	107	ug/L	PA 6020B UCT-KE

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00013
Control Limt: +/- 10.00%
Sequence: SLE0043

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLE0043-CCVJ	Copper-63	50.000	53.2	106	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	53.2	106	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	53.4	107	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	52.6	105	ug/L	PA 6020B UCT-KE
SLE0043-CCVK	Arsenic-75a	50.000	51.2	102	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	51.7	103	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	52.9	106	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	52.6	105	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	53.1	106	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	52.4	105	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	52.3	105	ug/L	PA 6020B UCT-KE

* Values outside of QC limits

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00019
Control Limt: +/- 10.00%
Sequence: SLE0071

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLE0071-ICV1	Arsenic-75a	50.000	49.0	97.9	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	52.5	105	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	52.3	105	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	50.0	99.9	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.2	102	ug/L	PA 6020B UCT-KE
SLE0071-CCV1	Arsenic-75a	50.000	49.2	98.3	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	49.5	99.0	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	50.9	102	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	50.0	100	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	49.4	98.8	ug/L	PA 6020B UCT-KE
SLE0071-CCV2	Arsenic-75a	50.000	49.5	99.0	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	49.9	99.8	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	49.7	99.4	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	50.7	101	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	49.6	99.2	ug/L	PA 6020B UCT-KE
SLE0071-CCV3	Arsenic-75a	50.000	49.5	99.1	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	51.5	103	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	51.5	103	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.8	104	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.3	103	ug/L	PA 6020B UCT-KE
SLE0071-CCV4	Arsenic-75a	50.000	50.0	100	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	51.7	103	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	51.4	103	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.7	103	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.5	101	ug/L	PA 6020B UCT-KE
SLE0071-CCV5	Arsenic-75a	50.000	49.0	98.1	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	50.4	101	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	50.9	102	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.7	103	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.2	102	ug/L	PA 6020B UCT-KE
SLE0071-CCV6	Arsenic-75a	50.000	50.2	100	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	51.2	102	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	51.1	102	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	52.0	104	ug/L	PA 6020B UCT-KE

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00019
Control Limt: +/- 10.00%
Sequence: SLE0071

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLE0071-CCV6	Zinc-67	50.000	51.4	103	ug/L	PA 6020B UCT-KE
SLE0071-CCV7	Arsenic-75a	50.000	50.0	100	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	50.4	101	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	51.6	103	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	52.1	104	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.7	103	ug/L	PA 6020B UCT-KE
SLE0071-CCV8	Arsenic-75a	50.000	49.5	99.0	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	50.3	101	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	50.5	101	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.3	103	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.2	102	ug/L	PA 6020B UCT-KE
SLE0071-CCV9	Arsenic-75a	50.000	49.5	99.0	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	50.7	101	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	49.9	99.9	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.2	102	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.2	100	ug/L	PA 6020B UCT-KE
SLE0071-CCVA	Arsenic-75a	50.000	49.3	98.6	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	49.7	99.4	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	49.9	99.8	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	50.5	101	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.7	101	ug/L	PA 6020B UCT-KE
SLE0071-CCVB	Arsenic-75a	50.000	49.6	99.3	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	50.4	101	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	50.0	100	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	50.3	101	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	52.0	104	ug/L	PA 6020B UCT-KE
SLE0071-CCVC	Arsenic-75a	50.000	53.4	107	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	56.7	113	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	56.3	113	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	55.0	110	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	54.8	110	ug/L	PA 6020B UCT-KE
SLE0071-CCVD	Arsenic-75a	50.000	49.2	98.3	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	52.4	105	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	52.2	104	ug/L	PA 6020B UCT-KE

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00019
Control Limt: +/- 10.00%
Sequence: SLE0071

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLE0071-CCVD	Zinc-66	50.000	51.0	102	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.5	101	ug/L	PA 6020B UCT-KE
SLE0071-CCVE	Arsenic-75a	50.000	49.5	99.0	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	52.2	104	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	52.4	105	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.2	102	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.1	100	ug/L	PA 6020B UCT-KE
SLE0071-CCVF	Arsenic-75a	50.000	49.4	98.8	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	53.0	106	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	53.1	106	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.5	103	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	49.3	98.7	ug/L	PA 6020B UCT-KE
SLE0071-CCVG	Arsenic-75a	50.000	49.9	99.7	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	52.1	104	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	52.7	105	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.5	103	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.5	101	ug/L	PA 6020B UCT-KE
SLE0071-CCVH	Arsenic-75a	50.000	49.3	98.7	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	51.9	104	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	52.9	106	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.5	103	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	49.6	99.2	ug/L	PA 6020B UCT-KE
SLE0071-CCVI	Arsenic-75a	50.000	49.5	99.0	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	54.3	109	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	53.9	108	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	52.9	106	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.6	101	ug/L	PA 6020B UCT-KE
SLE0071-CCVJ	Arsenic-75a	50.000	48.8	97.6	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	53.0	106	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	53.5	107	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.3	103	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	52.4	105	ug/L	PA 6020B UCT-KE
SLE0071-CCVK	Arsenic-75a	50.000	49.3	98.7	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	52.8	106	ug/L	PA 6020B UCT-KE

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00019
Control Limt: +/- 10.00%
Sequence: SLE0071

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLE0071-CCVK	Copper-65	50.000	52.7	105	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	52.3	105	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.2	100	ug/L	PA 6020B UCT-KE
SLE0071-CCVL	Arsenic-75a	50.000	49.7	99.3	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	53.6	107	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	53.6	107	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.4	103	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.5	103	ug/L	PA 6020B UCT-KE
SLE0071-CCVM	Arsenic-75a	50.000	50.1	100	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	52.1	104	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	52.7	105	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.2	102	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.8	102	ug/L	PA 6020B UCT-KE
SLE0071-CCVN	Arsenic-75a	50.000	49.9	99.8	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	53.4	107	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	53.3	107	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.8	104	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.9	102	ug/L	PA 6020B UCT-KE

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00040
Control Limt: +/- 10.00%
Sequence: SLE0204

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLE0204-ICV1	Arsenic-75a	50.000	48.2	96.4	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	51.7	103	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	51.8	104	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	52.3	105	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	51.4	103	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	50.8	102	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.6	101	ug/L	PA 6020B UCT-KE
SLE0204-CCV1	Arsenic-75a	50.000	49.7	99.4	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	49.7	99.3	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	50.6	101	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	49.7	99.5	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	49.6	99.1	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	49.9	99.7	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.3	101	ug/L	PA 6020B UCT-KE
SLE0204-CCV2	Arsenic-75a	50.000	50.1	100	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	50.2	100	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	50.2	100	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	50.3	101	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	49.8	99.6	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	49.1	98.2	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.8	104	ug/L	PA 6020B UCT-KE
SLE0204-CCV3	Arsenic-75a	50.000	49.8	99.5	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	50.6	101	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	50.4	101	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	49.6	99.2	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	48.4	96.7	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	50.7	101	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.1	100	ug/L	PA 6020B UCT-KE
SLE0204-CCV4	Arsenic-75a	50.000	50.8	102	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	50.4	101	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	51.4	103	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	50.5	101	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	49.2	98.4	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.3	103	ug/L	PA 6020B UCT-KE

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00040
Control Limt: +/- 10.00%
Sequence: SLE0204

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLE0204-CCV4	Zinc-67	50.000	52.0	104	ug/L	PA 6020B UCT-KE
SLE0204-CCV5	Arsenic-75a	50.000	49.8	99.6	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	51.5	103	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	51.1	102	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	50.3	101	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	50.4	101	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.6	103	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.8	102	ug/L	PA 6020B UCT-KE
SLE0204-CCV6	Arsenic-75a	50.000	49.6	99.2	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	50.6	101	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	50.9	102	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	49.5	99.0	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	49.4	98.8	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	50.6	101	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.0	100	ug/L	PA 6020B UCT-KE
SLE0204-CCV7	Arsenic-75a	50.000	50.2	100	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	49.9	99.8	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	50.0	100	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	50.4	101	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	49.2	98.4	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.4	103	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	52.1	104	ug/L	PA 6020B UCT-KE
SLE0204-CCV8	Arsenic-75a	50.000	50.0	99.9	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	49.5	99.1	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	49.5	99.0	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	49.4	98.8	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	48.2	96.5	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	49.6	99.2	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	49.3	98.6	ug/L	PA 6020B UCT-KE
SLE0204-CCV9	Arsenic-75a	50.000	50.2	100	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	50.0	99.9	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	50.1	100	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	50.9	102	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	50.3	101	ug/L	PA 6020B UCT-KE

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00040
Control Limt: +/- 10.00%
Sequence: SLE0204

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLE0204-CCV9	Zinc-66	50.000	51.0	102	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.9	104	ug/L	PA 6020B UCT-KE
SLE0204-CCVA	Arsenic-75a	50.000	49.1	98.1	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	50.0	99.9	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	49.9	99.8	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	49.2	98.4	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	48.6	97.3	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	48.4	96.9	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.5	101	ug/L	PA 6020B UCT-KE
SLE0204-CCVB	Arsenic-75a	50.000	49.6	99.1	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	48.5	97.1	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	48.9	97.8	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	49.6	99.2	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	48.7	97.3	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	50.0	100	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	49.7	99.5	ug/L	PA 6020B UCT-KE
SLE0204-CCVC	Arsenic-75a	50.000	49.7	99.3	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	49.8	99.6	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	49.9	99.8	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	50.0	100	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	48.6	97.2	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	50.1	100	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.6	101	ug/L	PA 6020B UCT-KE
SLE0204-CCVD	Arsenic-75a	50.000	49.3	98.7	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	51.1	102	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	51.1	102	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	50.4	101	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	50.2	100	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.1	102	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.5	101	ug/L	PA 6020B UCT-KE
SLE0204-CCVE	Arsenic-75a	50.000	50.3	101	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	50.6	101	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	51.1	102	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	51.7	103	ug/L	PA 6020B UCT-KE

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00040
Control Limt: +/- 10.00%
Sequence: SLE0204

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLE0204-CCVE	Copper-65	50.000	50.6	101	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.8	104	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	51.0	102	ug/L	PA 6020B UCT-KE
SLE0204-CCVF	Arsenic-75a	50.000	49.8	99.7	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	50.3	101	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	49.8	99.6	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	50.2	100	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	49.3	98.6	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	51.8	104	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.7	101	ug/L	PA 6020B UCT-KE
SLE0204-CCVG	Arsenic-75a	50.000	48.5	97.0	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	49.5	99.1	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	50.2	100	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	50.8	102	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	49.7	99.3	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	50.6	101	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	49.6	99.3	ug/L	PA 6020B UCT-KE
SLE0204-CCVH	Arsenic-75a	50.000	48.3	96.6	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	51.2	102	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	51.1	102	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	48.8	97.5	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	49.3	98.7	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	49.4	98.8	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	49.5	99.0	ug/L	PA 6020B UCT-KE
SLE0204-CCVI	Arsenic-75a	50.000	50.1	100	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	49.4	98.8	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	50.5	101	ug/L	PA 6020B UCT-KE
	Copper-63	50.000	50.3	101	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	49.5	99.1	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	50.8	102	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	50.5	101	ug/L	PA 6020B UCT-KE
SLE0204-CCVJ	Arsenic-75a	50.000	49.2	98.3	ug/L	PA 6020B UCT-KE
	Cadmium-111	50.000	50.4	101	ug/L	PA 6020B UCT-KE
	Cadmium-114	50.000	50.1	100	ug/L	PA 6020B UCT-KE

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00040
Control Limt: +/- 10.00%
Sequence: SLE0204

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLE0204-CCVJ	Copper-63	50.000	51.0	102	ug/L	PA 6020B UCT-KE
	Copper-65	50.000	50.3	101	ug/L	PA 6020B UCT-KE
	Zinc-66	50.000	50.2	100	ug/L	PA 6020B UCT-KE
	Zinc-67	50.000	49.5	99.1	ug/L	PA 6020B UCT-KE

* Values outside of QC limits

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0017

SDG: 23C0071
Project: AOC5 MR Phase 1
Calibration: GE00007
Date Analyzed: 05/01/23 15:43

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0017-IBL1	Arsenic-75a	0.00400	0.0373	0.200	ug/L	
SLE0017-IBL1	Cadmium-111	0.00	0.03	0.100	ug/L	
SLE0017-IBL1	Cadmium-114	-0.00100	0.04	0.100	ug/L	
SLE0017-IBL1	Copper-63	0.00200	0.173	0.500	ug/L	
SLE0017-IBL1	Copper-65	0.00500	0.35	0.500	ug/L	
SLE0017-IBL1	Zinc-66	0.0300	2.92	6.00	ug/L	
SLE0017-IBL1	Zinc-67	0.0100	0.94	6.00	ug/L	
SLE0017-ICB1	Arsenic-75a	0.00100	0.0373	0.200	ug/L	
SLE0017-ICB1	Cadmium-111	-0.00400	0.03	0.100	ug/L	
SLE0017-ICB1	Cadmium-114	-0.00100	0.04	0.100	ug/L	
SLE0017-ICB1	Copper-63	0.00200	0.173	0.500	ug/L	
SLE0017-ICB1	Copper-65	0.00	0.35	0.500	ug/L	
SLE0017-ICB1	Zinc-66	0.0160	2.92	6.00	ug/L	
SLE0017-ICB1	Zinc-67	-0.0390	0.94	6.00	ug/L	
SLE0017-CCB1	Arsenic-75a	0.00200	0.0373	0.200	ug/L	
SLE0017-CCB1	Cadmium-111	0.0260	0.03	0.100	ug/L	
SLE0017-CCB1	Cadmium-114	0.0260	0.04	0.100	ug/L	
SLE0017-CCB1	Copper-63	-0.00300	0.173	0.500	ug/L	
SLE0017-CCB1	Copper-65	0.00	0.35	0.500	ug/L	
SLE0017-CCB1	Zinc-66	0.0360	2.92	6.00	ug/L	
SLE0017-CCB1	Zinc-67	-0.0030	0.94	6.00	ug/L	
SLE0017-IBL2	Arsenic-75a	0.0630	0.0373	0.200	ug/L	
SLE0017-IBL2	Cadmium-111	-0.00100	0.03	0.100	ug/L	
SLE0017-IBL2	Cadmium-114	0.00400	0.04	0.100	ug/L	
SLE0017-IBL2	Copper-63	-0.0100	0.173	0.500	ug/L	
SLE0017-IBL2	Copper-65	-0.0120	0.35	0.500	ug/L	
SLE0017-IBL2	Zinc-66	-0.0510	2.92	6.00	ug/L	
SLE0017-IBL2	Zinc-67	-0.0920	0.94	6.00	ug/L	
SLE0017-CCB2	Arsenic-75a	0.0200	0.0373	0.200	ug/L	
SLE0017-CCB2	Cadmium-111	-0.00400	0.03	0.100	ug/L	
SLE0017-CCB2	Cadmium-114	0.00	0.04	0.100	ug/L	
SLE0017-CCB2	Copper-63	-0.00400	0.173	0.500	ug/L	
SLE0017-CCB2	Copper-65	-0.00100	0.35	0.500	ug/L	
SLE0017-CCB2	Zinc-66	0.0080	2.92	6.00	ug/L	
SLE0017-CCB2	Zinc-67	-0.0340	0.94	6.00	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0017

SDG: 23C0071
Project: AOC5 MR Phase 1
Calibration: GE00007
Date Analyzed: 05/01/23 18:00

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0017-IBL3	Arsenic-75a	-0.00400	0.0373	0.200	ug/L	
SLE0017-IBL3	Cadmium-111	-0.00600	0.03	0.100	ug/L	
SLE0017-IBL3	Cadmium-114	0.00200	0.04	0.100	ug/L	
SLE0017-IBL3	Copper-63	0.0280	0.173	0.500	ug/L	
SLE0017-IBL3	Copper-65	0.0280	0.35	0.500	ug/L	
SLE0017-IBL3	Zinc-66	0.419	2.92	6.00	ug/L	
SLE0017-IBL3	Zinc-67	0.492	0.94	6.00	ug/L	
SLE0017-CCB3	Arsenic-75a	0.00400	0.0373	0.200	ug/L	
SLE0017-CCB3	Cadmium-111	-0.00300	0.03	0.100	ug/L	
SLE0017-CCB3	Cadmium-114	-0.00100	0.04	0.100	ug/L	
SLE0017-CCB3	Copper-63	0.00	0.173	0.500	ug/L	
SLE0017-CCB3	Copper-65	-0.00200	0.35	0.500	ug/L	
SLE0017-CCB3	Zinc-66	0.0450	2.92	6.00	ug/L	
SLE0017-CCB3	Zinc-67	0.0320	0.94	6.00	ug/L	
SLE0017-IBL4	Arsenic-75a	-0.00400	0.0373	0.200	ug/L	
SLE0017-IBL4	Cadmium-111	-0.00600	0.03	0.100	ug/L	
SLE0017-IBL4	Cadmium-114	-0.00200	0.04	0.100	ug/L	
SLE0017-IBL4	Copper-63	-0.00600	0.173	0.500	ug/L	
SLE0017-IBL4	Copper-65	-0.00700	0.35	0.500	ug/L	
SLE0017-IBL4	Zinc-66	0.0830	2.92	6.00	ug/L	
SLE0017-IBL4	Zinc-67	0.0370	0.94	6.00	ug/L	
SLE0017-CCB4	Arsenic-75a	-0.00500	0.0373	0.200	ug/L	
SLE0017-CCB4	Cadmium-111	-0.00500	0.03	0.100	ug/L	
SLE0017-CCB4	Cadmium-114	0.00	0.04	0.100	ug/L	
SLE0017-CCB4	Copper-63	-0.00400	0.173	0.500	ug/L	
SLE0017-CCB4	Copper-65	-0.00200	0.35	0.500	ug/L	
SLE0017-CCB4	Zinc-66	-0.0060	2.92	6.00	ug/L	
SLE0017-CCB4	Zinc-67	-0.0110	0.94	6.00	ug/L	
SLE0017-IBL5	Arsenic-75a	-0.00700	0.0373	0.200	ug/L	
SLE0017-IBL5	Cadmium-111	-0.00500	0.03	0.100	ug/L	
SLE0017-IBL5	Cadmium-114	-0.00100	0.04	0.100	ug/L	
SLE0017-IBL5	Copper-63	-0.00300	0.173	0.500	ug/L	
SLE0017-IBL5	Copper-65	-0.00300	0.35	0.500	ug/L	
SLE0017-IBL5	Zinc-66	0.0480	2.92	6.00	ug/L	
SLE0017-IBL5	Zinc-67	0.0530	0.94	6.00	ug/L	
SLE0017-CCB5	Arsenic-75a	-0.00500	0.0373	0.200	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0017

SDG: 23C0071
Project: AOC5 MR Phase 1
Calibration: GE00007
Date Analyzed: 05/01/23 20:21

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0017-CCB5	Cadmium-111	-0.00600	0.03	0.100	ug/L	
SLE0017-CCB5	Cadmium-114	-0.00100	0.04	0.100	ug/L	
SLE0017-CCB5	Copper-63	-0.0110	0.173	0.500	ug/L	
SLE0017-CCB5	Copper-65	-0.0110	0.35	0.500	ug/L	
SLE0017-CCB5	Zinc-66	-0.0370	2.92	6.00	ug/L	
SLE0017-CCB5	Zinc-67	-0.0630	0.94	6.00	ug/L	
SLE0017-CCB6	Arsenic-75a	0.0240	0.0373	0.200	ug/L	
SLE0017-CCB6	Cadmium-111	-0.00200	0.03	0.100	ug/L	
SLE0017-CCB6	Cadmium-114	-0.00200	0.04	0.100	ug/L	
SLE0017-CCB6	Copper-63	0.0220	0.173	0.500	ug/L	
SLE0017-CCB6	Copper-65	0.0230	0.35	0.500	ug/L	
SLE0017-CCB6	Zinc-66	0.0260	2.92	6.00	ug/L	
SLE0017-CCB6	Zinc-67	0.0280	0.94	6.00	ug/L	
SLE0017-IBL6	Arsenic-75a	-0.00600	0.0373	0.200	ug/L	
SLE0017-IBL6	Cadmium-111	-0.00800	0.03	0.100	ug/L	
SLE0017-IBL6	Cadmium-114	-0.00100	0.04	0.100	ug/L	
SLE0017-IBL6	Copper-63	0.0100	0.173	0.500	ug/L	
SLE0017-IBL6	Copper-65	0.0110	0.35	0.500	ug/L	
SLE0017-IBL6	Zinc-66	0.143	2.92	6.00	ug/L	
SLE0017-IBL6	Zinc-67	0.0960	0.94	6.00	ug/L	
SLE0017-IBL7	Arsenic-75a	-0.00400	0.0373	0.200	ug/L	
SLE0017-IBL7	Cadmium-111	0.00600	0.03	0.100	ug/L	
SLE0017-IBL7	Cadmium-114	0.00200	0.04	0.100	ug/L	
SLE0017-IBL7	Copper-63	0.0270	0.173	0.500	ug/L	
SLE0017-IBL7	Copper-65	0.0210	0.35	0.500	ug/L	
SLE0017-IBL7	Zinc-66	0.265	2.92	6.00	ug/L	
SLE0017-IBL7	Zinc-67	0.229	0.94	6.00	ug/L	
SLE0017-CCB7	Arsenic-75a	0.00	0.0373	0.200	ug/L	
SLE0017-CCB7	Cadmium-111	0.00	0.03	0.100	ug/L	
SLE0017-CCB7	Cadmium-114	0.00200	0.04	0.100	ug/L	
SLE0017-CCB7	Copper-63	0.00100	0.173	0.500	ug/L	
SLE0017-CCB7	Copper-65	-0.00100	0.35	0.500	ug/L	
SLE0017-CCB7	Zinc-66	0.0150	2.92	6.00	ug/L	
SLE0017-CCB7	Zinc-67	-0.0250	0.94	6.00	ug/L	
SLE0017-IBL8	Arsenic-75a	0.00500	0.0373	0.200	ug/L	
SLE0017-IBL8	Cadmium-111	-0.00600	0.03	0.100	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0017

SDG: 23C0071
Project: AOC5 MR Phase 1
Calibration: GE00007
Date Analyzed: 05/01/23 22:43

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0017-IBL8	Cadmium-114	-0.00100	0.04	0.100	ug/L	
SLE0017-IBL8	Copper-63	0.0310	0.173	0.500	ug/L	
SLE0017-IBL8	Copper-65	0.0380	0.35	0.500	ug/L	
SLE0017-IBL8	Zinc-66	0.310	2.92	6.00	ug/L	
SLE0017-IBL8	Zinc-67	0.240	0.94	6.00	ug/L	
SLE0017-CCB8	Arsenic-75a	0.00300	0.0373	0.200	ug/L	
SLE0017-CCB8	Cadmium-111	-0.00200	0.03	0.100	ug/L	
SLE0017-CCB8	Cadmium-114	-0.00200	0.04	0.100	ug/L	
SLE0017-CCB8	Copper-63	0.00200	0.173	0.500	ug/L	
SLE0017-CCB8	Copper-65	-0.00200	0.35	0.500	ug/L	
SLE0017-CCB8	Zinc-66	0.0040	2.92	6.00	ug/L	
SLE0017-CCB8	Zinc-67	-0.0380	0.94	6.00	ug/L	
SLE0017-IBL9	Arsenic-75a	-0.00400	0.0373	0.200	ug/L	
SLE0017-IBL9	Cadmium-111	0.00300	0.03	0.100	ug/L	
SLE0017-IBL9	Cadmium-114	0.00100	0.04	0.100	ug/L	
SLE0017-IBL9	Copper-63	0.0230	0.173	0.500	ug/L	
SLE0017-IBL9	Copper-65	0.0210	0.35	0.500	ug/L	
SLE0017-IBL9	Zinc-66	0.240	2.92	6.00	ug/L	
SLE0017-IBL9	Zinc-67	0.259	0.94	6.00	ug/L	
SLE0017-CCB9	Arsenic-75a	0.00200	0.0373	0.200	ug/L	
SLE0017-CCB9	Cadmium-111	-0.00100	0.03	0.100	ug/L	
SLE0017-CCB9	Cadmium-114	0.00300	0.04	0.100	ug/L	
SLE0017-CCB9	Copper-63	0.00200	0.173	0.500	ug/L	
SLE0017-CCB9	Copper-65	0.00100	0.35	0.500	ug/L	
SLE0017-CCB9	Zinc-66	0.0070	2.92	6.00	ug/L	
SLE0017-CCB9	Zinc-67	-0.0310	0.94	6.00	ug/L	
SLE0017-IBLA	Arsenic-75a	-0.00300	0.0373	0.200	ug/L	
SLE0017-IBLA	Cadmium-111	0.00	0.03	0.100	ug/L	
SLE0017-IBLA	Cadmium-114	0.00	0.04	0.100	ug/L	
SLE0017-IBLA	Copper-63	0.0380	0.173	0.500	ug/L	
SLE0017-IBLA	Copper-65	0.0340	0.35	0.500	ug/L	
SLE0017-IBLA	Zinc-66	0.271	2.92	6.00	ug/L	
SLE0017-IBLA	Zinc-67	0.184	0.94	6.00	ug/L	
SLE0017-CCBA	Arsenic-75a	0.00100	0.0373	0.200	ug/L	
SLE0017-CCBA	Cadmium-111	-0.00200	0.03	0.100	ug/L	
SLE0017-CCBA	Cadmium-114	-0.00400	0.04	0.100	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0017

SDG: 23C0071
Project: AOC5 MR Phase 1
Calibration: GE00007
Date Analyzed: 05/02/23 00:56

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0017-CCBA	Copper-63	0.00200	0.173	0.500	ug/L	
SLE0017-CCBA	Copper-65	0.00200	0.35	0.500	ug/L	
SLE0017-CCBA	Zinc-66	0.0100	2.92	6.00	ug/L	
SLE0017-CCBA	Zinc-67	0.0090	0.94	6.00	ug/L	
SLE0017-CCBB	Arsenic-75a	0.00	0.0373	0.200	ug/L	
SLE0017-CCBB	Cadmium-111	0.00	0.03	0.100	ug/L	
SLE0017-CCBB	Cadmium-114	-0.00100	0.04	0.100	ug/L	
SLE0017-CCBB	Copper-63	0.00300	0.173	0.500	ug/L	
SLE0017-CCBB	Copper-65	0.00300	0.35	0.500	ug/L	
SLE0017-CCBB	Zinc-66	-0.0050	2.92	6.00	ug/L	
SLE0017-CCBB	Zinc-67	0.0050	0.94	6.00	ug/L	
SLE0017-IBLB	Arsenic-75a	0.00300	0.0373	0.200	ug/L	
SLE0017-IBLB	Cadmium-111	-0.00400	0.03	0.100	ug/L	
SLE0017-IBLB	Cadmium-114	0.00	0.04	0.100	ug/L	
SLE0017-IBLB	Copper-63	0.0280	0.173	0.500	ug/L	
SLE0017-IBLB	Copper-65	0.0170	0.35	0.500	ug/L	
SLE0017-IBLB	Zinc-66	0.264	2.92	6.00	ug/L	
SLE0017-IBLB	Zinc-67	0.266	0.94	6.00	ug/L	
SLE0017-CCBC	Arsenic-75a	0.00100	0.0373	0.200	ug/L	
SLE0017-CCBC	Cadmium-111	-0.00600	0.03	0.100	ug/L	
SLE0017-CCBC	Cadmium-114	-0.00200	0.04	0.100	ug/L	
SLE0017-CCBC	Copper-63	0.00200	0.173	0.500	ug/L	
SLE0017-CCBC	Copper-65	-0.00200	0.35	0.500	ug/L	
SLE0017-CCBC	Zinc-66	0.0040	2.92	6.00	ug/L	
SLE0017-CCBC	Zinc-67	-0.0090	0.94	6.00	ug/L	
SLE0017-IBLC	Arsenic-75a	-0.00400	0.0373	0.200	ug/L	
SLE0017-IBLC	Cadmium-111	-0.0100	0.03	0.100	ug/L	
SLE0017-IBLC	Cadmium-114	-0.00100	0.04	0.100	ug/L	
SLE0017-IBLC	Copper-63	0.0280	0.173	0.500	ug/L	
SLE0017-IBLC	Copper-65	0.0210	0.35	0.500	ug/L	
SLE0017-IBLC	Zinc-66	0.293	2.92	6.00	ug/L	
SLE0017-IBLC	Zinc-67	0.249	0.94	6.00	ug/L	
SLE0017-CCBD	Arsenic-75a	-0.00200	0.0373	0.200	ug/L	
SLE0017-CCBD	Cadmium-111	-0.00500	0.03	0.100	ug/L	
SLE0017-CCBD	Cadmium-114	0.00200	0.04	0.100	ug/L	
SLE0017-CCBD	Copper-63	0.00	0.173	0.500	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0017

SDG: 23C0071
Project: AOC5 MR Phase 1
Calibration: GE00007
Date Analyzed: 05/02/23 03:17

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0017-CCBD	Copper-65	0.00100	0.35	0.500	ug/L	
SLE0017-CCBD	Zinc-66	0.0050	2.92	6.00	ug/L	
SLE0017-CCBD	Zinc-67	-0.0040	0.94	6.00	ug/L	
SLE0017-IBLD	Arsenic-75a	0.00600	0.0373	0.200	ug/L	
SLE0017-IBLD	Cadmium-111	-0.00400	0.03	0.100	ug/L	
SLE0017-IBLD	Cadmium-114	-0.00100	0.04	0.100	ug/L	
SLE0017-IBLD	Copper-63	0.0300	0.173	0.500	ug/L	
SLE0017-IBLD	Copper-65	0.0290	0.35	0.500	ug/L	
SLE0017-IBLD	Zinc-66	0.301	2.92	6.00	ug/L	
SLE0017-IBLD	Zinc-67	0.258	0.94	6.00	ug/L	
SLE0017-CCBE	Arsenic-75a	-0.00200	0.0373	0.200	ug/L	
SLE0017-CCBE	Cadmium-111	0.0260	0.03	0.100	ug/L	
SLE0017-CCBE	Cadmium-114	0.0250	0.04	0.100	ug/L	
SLE0017-CCBE	Copper-63	0.00200	0.173	0.500	ug/L	
SLE0017-CCBE	Copper-65	-0.00100	0.35	0.500	ug/L	
SLE0017-CCBE	Zinc-66	0.0510	2.92	6.00	ug/L	
SLE0017-CCBE	Zinc-67	-0.0060	0.94	6.00	ug/L	
SLE0017-IBLE	Arsenic-75a	-0.00500	0.0373	0.200	ug/L	
SLE0017-IBLE	Cadmium-111	-0.00600	0.03	0.100	ug/L	
SLE0017-IBLE	Cadmium-114	-0.00100	0.04	0.100	ug/L	
SLE0017-IBLE	Copper-63	0.0220	0.173	0.500	ug/L	
SLE0017-IBLE	Copper-65	0.0220	0.35	0.500	ug/L	
SLE0017-IBLE	Zinc-66	0.305	2.92	6.00	ug/L	
SLE0017-IBLE	Zinc-67	0.320	0.94	6.00	ug/L	
SLE0017-IBLF	Arsenic-75a	-0.00400	0.0373	0.200	ug/L	
SLE0017-IBLF	Cadmium-111	-0.00300	0.03	0.100	ug/L	
SLE0017-IBLF	Cadmium-114	0.00200	0.04	0.100	ug/L	
SLE0017-IBLF	Copper-63	0.0240	0.173	0.500	ug/L	
SLE0017-IBLF	Copper-65	0.0230	0.35	0.500	ug/L	
SLE0017-IBLF	Zinc-66	0.274	2.92	6.00	ug/L	
SLE0017-IBLF	Zinc-67	0.210	0.94	6.00	ug/L	
SLE0017-CCBF	Arsenic-75a	-0.00100	0.0373	0.200	ug/L	
SLE0017-CCBF	Cadmium-111	-0.00900	0.03	0.100	ug/L	
SLE0017-CCBF	Cadmium-114	0.00	0.04	0.100	ug/L	
SLE0017-CCBF	Copper-63	0.00	0.173	0.500	ug/L	
SLE0017-CCBF	Copper-65	0.00	0.35	0.500	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0017

SDG: 23C0071
Project: AOC5 MR Phase 1
Calibration: GE00007
Date Analyzed: 05/02/23 05:16

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0017-CCBF	Zinc-66	0.0430	2.92	6.00	ug/L	
SLE0017-CCBF	Zinc-67	0.0110	0.94	6.00	ug/L	
SLE0017-CCBG	Arsenic-75a	0.00700	0.0373	0.200	ug/L	
SLE0017-CCBG	Cadmium-111	-0.00300	0.03	0.100	ug/L	
SLE0017-CCBG	Cadmium-114	-0.00400	0.04	0.100	ug/L	
SLE0017-CCBG	Copper-63	-0.00200	0.173	0.500	ug/L	
SLE0017-CCBG	Copper-65	-0.00100	0.35	0.500	ug/L	
SLE0017-CCBG	Zinc-66	0.0300	2.92	6.00	ug/L	
SLE0017-CCBG	Zinc-67	0.0460	0.94	6.00	ug/L	
SLE0017-IBLG	Arsenic-75a	0.00200	0.0373	0.200	ug/L	
SLE0017-IBLG	Cadmium-111	-0.00700	0.03	0.100	ug/L	
SLE0017-IBLG	Cadmium-114	-0.00200	0.04	0.100	ug/L	
SLE0017-IBLG	Copper-63	0.145	0.173	0.500	ug/L	
SLE0017-IBLG	Copper-65	0.142	0.35	0.500	ug/L	
SLE0017-IBLG	Zinc-66	0.234	2.92	6.00	ug/L	
SLE0017-IBLG	Zinc-67	0.251	0.94	6.00	ug/L	
SLE0017-IBLH	Arsenic-75a	0.00600	0.0373	0.200	ug/L	
SLE0017-IBLH	Cadmium-111	-0.00300	0.03	0.100	ug/L	
SLE0017-IBLH	Cadmium-114	0.00100	0.04	0.100	ug/L	
SLE0017-IBLH	Copper-63	0.148	0.173	0.500	ug/L	
SLE0017-IBLH	Copper-65	0.145	0.35	0.500	ug/L	
SLE0017-IBLH	Zinc-66	0.263	2.92	6.00	ug/L	
SLE0017-IBLH	Zinc-67	0.153	0.94	6.00	ug/L	
SLE0017-CCBH	Arsenic-75a	0.00500	0.0373	0.200	ug/L	
SLE0017-CCBH	Cadmium-111	-0.00300	0.03	0.100	ug/L	
SLE0017-CCBH	Cadmium-114	0.00	0.04	0.100	ug/L	
SLE0017-CCBH	Copper-63	-0.00100	0.173	0.500	ug/L	
SLE0017-CCBH	Copper-65	0.00100	0.35	0.500	ug/L	
SLE0017-CCBH	Zinc-66	0.0200	2.92	6.00	ug/L	
SLE0017-CCBH	Zinc-67	0.0240	0.94	6.00	ug/L	
SLE0017-IBLI	Arsenic-75a	0.0100	0.0373	0.200	ug/L	
SLE0017-IBLI	Cadmium-111	0.00900	0.03	0.100	ug/L	
SLE0017-IBLI	Cadmium-114	0.00300	0.04	0.100	ug/L	
SLE0017-IBLI	Copper-63	0.149	0.173	0.500	ug/L	
SLE0017-IBLI	Copper-65	0.159	0.35	0.500	ug/L	
SLE0017-IBLI	Zinc-66	0.292	2.92	6.00	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0017

SDG: 23C0071
Project: AOC5 MR Phase 1
Calibration: GE00007
Date Analyzed: 05/02/23 06:50

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0017-IBLI	Zinc-67	0.254	0.94	6.00	ug/L	
SLE0017-IBLJ	Arsenic-75a	0.0300	0.0373	0.200	ug/L	
SLE0017-IBLJ	Cadmium-111	-0.00900	0.03	0.100	ug/L	
SLE0017-IBLJ	Cadmium-114	0.00300	0.04	0.100	ug/L	
SLE0017-IBLJ	Copper-63	0.183	0.173	0.500	ug/L	
SLE0017-IBLJ	Copper-65	0.190	0.35	0.500	ug/L	
SLE0017-IBLJ	Zinc-66	0.349	2.92	6.00	ug/L	
SLE0017-IBLJ	Zinc-67	0.343	0.94	6.00	ug/L	
SLE0017-CCBI	Arsenic-75a	0.00600	0.0373	0.200	ug/L	
SLE0017-CCBI	Cadmium-111	-0.00200	0.03	0.100	ug/L	
SLE0017-CCBI	Cadmium-114	-0.00200	0.04	0.100	ug/L	
SLE0017-CCBI	Copper-63	0.00700	0.173	0.500	ug/L	
SLE0017-CCBI	Copper-65	0.0110	0.35	0.500	ug/L	
SLE0017-CCBI	Zinc-66	0.0350	2.92	6.00	ug/L	
SLE0017-CCBI	Zinc-67	0.0470	0.94	6.00	ug/L	
SLE0017-IBLK	Arsenic-75a	0.0220	0.0373	0.200	ug/L	
SLE0017-IBLK	Cadmium-111	0.00100	0.03	0.100	ug/L	
SLE0017-IBLK	Cadmium-114	0.00200	0.04	0.100	ug/L	
SLE0017-IBLK	Copper-63	0.172	0.173	0.500	ug/L	
SLE0017-IBLK	Copper-65	0.184	0.35	0.500	ug/L	
SLE0017-IBLK	Zinc-66	0.305	2.92	6.00	ug/L	
SLE0017-IBLK	Zinc-67	0.304	0.94	6.00	ug/L	
SLE0017-IBLL	Arsenic-75a	0.00700	0.0373	0.200	ug/L	
SLE0017-IBLL	Cadmium-111	-0.00700	0.03	0.100	ug/L	
SLE0017-IBLL	Cadmium-114	-0.00300	0.04	0.100	ug/L	
SLE0017-IBLL	Copper-63	0.160	0.173	0.500	ug/L	
SLE0017-IBLL	Copper-65	0.148	0.35	0.500	ug/L	
SLE0017-IBLL	Zinc-66	0.286	2.92	6.00	ug/L	
SLE0017-IBLL	Zinc-67	0.208	0.94	6.00	ug/L	
SLE0017-CCBJ	Arsenic-75a	0.00600	0.0373	0.200	ug/L	
SLE0017-CCBJ	Cadmium-111	-0.00600	0.03	0.100	ug/L	
SLE0017-CCBJ	Cadmium-114	0.00300	0.04	0.100	ug/L	
SLE0017-CCBJ	Copper-63	-0.00100	0.173	0.500	ug/L	
SLE0017-CCBJ	Copper-65	0.00	0.35	0.500	ug/L	
SLE0017-CCBJ	Zinc-66	0.0160	2.92	6.00	ug/L	
SLE0017-CCBJ	Zinc-67	0.0250	0.94	6.00	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0017

SDG: 23C0071
Project: AOC5 MR Phase 1
Calibration: GE00007
Date Analyzed: 05/02/23 08:46

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0017-IBLM	Arsenic-75a	0.0100	0.0373	0.200	ug/L	
SLE0017-IBLM	Cadmium-111	-0.00700	0.03	0.100	ug/L	
SLE0017-IBLM	Cadmium-114	0.00200	0.04	0.100	ug/L	
SLE0017-IBLM	Copper-63	0.140	0.173	0.500	ug/L	
SLE0017-IBLM	Copper-65	0.148	0.35	0.500	ug/L	
SLE0017-IBLM	Zinc-66	0.223	2.92	6.00	ug/L	
SLE0017-IBLM	Zinc-67	0.266	0.94	6.00	ug/L	
SLE0017-IBLN	Arsenic-75a	0.00900	0.0373	0.200	ug/L	
SLE0017-IBLN	Cadmium-111	-0.00400	0.03	0.100	ug/L	
SLE0017-IBLN	Cadmium-114	-0.00100	0.04	0.100	ug/L	
SLE0017-IBLN	Copper-63	0.159	0.173	0.500	ug/L	
SLE0017-IBLN	Copper-65	0.148	0.35	0.500	ug/L	
SLE0017-IBLN	Zinc-66	0.252	2.92	6.00	ug/L	
SLE0017-IBLN	Zinc-67	0.296	0.94	6.00	ug/L	
SLE0017-CCBK	Arsenic-75a	0.00600	0.0373	0.200	ug/L	
SLE0017-CCBK	Cadmium-111	-0.00200	0.03	0.100	ug/L	
SLE0017-CCBK	Cadmium-114	0.00300	0.04	0.100	ug/L	
SLE0017-CCBK	Copper-63	0.00100	0.173	0.500	ug/L	
SLE0017-CCBK	Copper-65	-0.00200	0.35	0.500	ug/L	
SLE0017-CCBK	Zinc-66	0.0430	2.92	6.00	ug/L	
SLE0017-CCBK	Zinc-67	0.0560	0.94	6.00	ug/L	
SLE0017-IBLO	Arsenic-75a	0.00300	0.0373	0.200	ug/L	
SLE0017-IBLO	Cadmium-111	-0.00100	0.03	0.100	ug/L	
SLE0017-IBLO	Cadmium-114	0.00600	0.04	0.100	ug/L	
SLE0017-IBLO	Copper-63	0.156	0.173	0.500	ug/L	
SLE0017-IBLO	Copper-65	0.155	0.35	0.500	ug/L	
SLE0017-IBLO	Zinc-66	0.267	2.92	6.00	ug/L	
SLE0017-IBLO	Zinc-67	0.338	0.94	6.00	ug/L	
SLE0017-CCBL	Arsenic-75a	0.00600	0.0373	0.200	ug/L	
SLE0017-CCBL	Cadmium-111	-0.00200	0.03	0.100	ug/L	
SLE0017-CCBL	Cadmium-114	-0.00100	0.04	0.100	ug/L	
SLE0017-CCBL	Copper-63	0.00100	0.173	0.500	ug/L	
SLE0017-CCBL	Copper-65	-0.00200	0.35	0.500	ug/L	
SLE0017-CCBL	Zinc-66	0.0470	2.92	6.00	ug/L	
SLE0017-CCBL	Zinc-67	0.0230	0.94	6.00	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0043

SDG: 23C0071
Project: AOC5 MR Phase 1
Calibration: GE00013
Date Analyzed: 05/02/23 14:19

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0043-IBL1	Arsenic-75a	0.0270	0.0373	0.200	ug/L	
SLE0043-IBL1	Cadmium-111	-0.00100	0.03	0.100	ug/L	
SLE0043-IBL1	Cadmium-114	0.00500	0.04	0.100	ug/L	
SLE0043-IBL1	Copper-63	0.0160	0.173	0.500	ug/L	
SLE0043-IBL1	Copper-65	0.0150	0.35	0.500	ug/L	
SLE0043-IBL1	Zinc-66	0.0180	2.92	6.00	ug/L	
SLE0043-IBL1	Zinc-67	0.0670	0.94	6.00	ug/L	
SLE0043-ICB1	Arsenic-75a	0.00700	0.0373	0.200	ug/L	
SLE0043-ICB1	Cadmium-111	0.00300	0.03	0.100	ug/L	
SLE0043-ICB1	Cadmium-114	0.00200	0.04	0.100	ug/L	
SLE0043-ICB1	Copper-63	0.00300	0.173	0.500	ug/L	
SLE0043-ICB1	Copper-65	0.00200	0.35	0.500	ug/L	
SLE0043-ICB1	Zinc-66	0.0100	2.92	6.00	ug/L	
SLE0043-ICB1	Zinc-67	0.0410	0.94	6.00	ug/L	
SLE0043-CCB1	Arsenic-75a	0.00500	0.0373	0.200	ug/L	
SLE0043-CCB1	Cadmium-111	0.0110	0.03	0.100	ug/L	
SLE0043-CCB1	Cadmium-114	0.00200	0.04	0.100	ug/L	
SLE0043-CCB1	Copper-63	0.00100	0.173	0.500	ug/L	
SLE0043-CCB1	Copper-65	-0.00200	0.35	0.500	ug/L	
SLE0043-CCB1	Zinc-66	0.0060	2.92	6.00	ug/L	
SLE0043-CCB1	Zinc-67	0.0260	0.94	6.00	ug/L	
SLE0043-IBL2	Arsenic-75a	0.0140	0.0373	0.200	ug/L	
SLE0043-IBL2	Cadmium-111	0.00900	0.03	0.100	ug/L	
SLE0043-IBL2	Cadmium-114	0.00800	0.04	0.100	ug/L	
SLE0043-IBL2	Copper-63	0.00300	0.173	0.500	ug/L	
SLE0043-IBL2	Copper-65	0.00400	0.35	0.500	ug/L	
SLE0043-IBL2	Zinc-66	0.0250	2.92	6.00	ug/L	
SLE0043-IBL2	Zinc-67	0.0280	0.94	6.00	ug/L	
SLE0043-IBL3	Arsenic-75a	0.00	0.0373	0.200	ug/L	
SLE0043-IBL3	Cadmium-111	0.00500	0.03	0.100	ug/L	
SLE0043-IBL3	Cadmium-114	0.00100	0.04	0.100	ug/L	
SLE0043-IBL3	Copper-63	0.00200	0.173	0.500	ug/L	
SLE0043-IBL3	Copper-65	0.00600	0.35	0.500	ug/L	
SLE0043-IBL3	Zinc-66	0.0290	2.92	6.00	ug/L	
SLE0043-IBL3	Zinc-67	0.0390	0.94	6.00	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0043

SDG: 23C0071
Project: AOC5 MR Phase 1
Calibration: GE00013
Date Analyzed: 05/02/23 15:57

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0043-CCB2	Arsenic-75a	0.0110	0.0373	0.200	ug/L	
SLE0043-CCB2	Cadmium-111	0.00500	0.03	0.100	ug/L	
SLE0043-CCB2	Cadmium-114	0.00300	0.04	0.100	ug/L	
SLE0043-CCB2	Copper-63	0.00400	0.173	0.500	ug/L	
SLE0043-CCB2	Copper-65	0.00400	0.35	0.500	ug/L	
SLE0043-CCB2	Zinc-66	0.0240	2.92	6.00	ug/L	
SLE0043-CCB2	Zinc-67	0.0670	0.94	6.00	ug/L	
SLE0043-IBL4	Arsenic-75a	-0.00600	0.0373	0.200	ug/L	
SLE0043-IBL4	Cadmium-111	0.00	0.03	0.100	ug/L	
SLE0043-IBL4	Cadmium-114	-0.00200	0.04	0.100	ug/L	
SLE0043-IBL4	Copper-63	0.00300	0.173	0.500	ug/L	
SLE0043-IBL4	Copper-65	0.00500	0.35	0.500	ug/L	
SLE0043-IBL4	Zinc-66	0.0550	2.92	6.00	ug/L	
SLE0043-IBL4	Zinc-67	0.0600	0.94	6.00	ug/L	
SLE0043-CCB3	Arsenic-75a	-0.00100	0.0373	0.200	ug/L	
SLE0043-CCB3	Cadmium-111	0.00400	0.03	0.100	ug/L	
SLE0043-CCB3	Cadmium-114	0.00600	0.04	0.100	ug/L	
SLE0043-CCB3	Copper-63	0.00100	0.173	0.500	ug/L	
SLE0043-CCB3	Copper-65	-0.00100	0.35	0.500	ug/L	
SLE0043-CCB3	Zinc-66	0.0240	2.92	6.00	ug/L	
SLE0043-CCB3	Zinc-67	0.0600	0.94	6.00	ug/L	
SLE0043-CCB4	Arsenic-75a	0.00800	0.0373	0.200	ug/L	
SLE0043-CCB4	Cadmium-111	0.00900	0.03	0.100	ug/L	
SLE0043-CCB4	Cadmium-114	0.00300	0.04	0.100	ug/L	
SLE0043-CCB4	Copper-63	-0.00200	0.173	0.500	ug/L	
SLE0043-CCB4	Copper-65	0.00200	0.35	0.500	ug/L	
SLE0043-CCB4	Zinc-66	-0.0030	2.92	6.00	ug/L	
SLE0043-CCB4	Zinc-67	0.0360	0.94	6.00	ug/L	
SLE0043-CCB5	Arsenic-75a	0.00100	0.0373	0.200	ug/L	
SLE0043-CCB5	Cadmium-111	-0.00800	0.03	0.100	ug/L	
SLE0043-CCB5	Cadmium-114	0.00300	0.04	0.100	ug/L	
SLE0043-CCB5	Copper-63	0.00100	0.173	0.500	ug/L	
SLE0043-CCB5	Copper-65	-0.00100	0.35	0.500	ug/L	
SLE0043-CCB5	Zinc-66	0.0130	2.92	6.00	ug/L	
SLE0043-CCB5	Zinc-67	0.0160	0.94	6.00	ug/L	
SLE0043-CCB6	Arsenic-75a	0.00	0.0373	0.200	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0043

SDG: 23C0071
Project: AOC5 MR Phase 1
Calibration: GE00013
Date Analyzed: 05/02/23 19:16

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0043-CCB6	Cadmium-111	-0.00200	0.03	0.100	ug/L	
SLE0043-CCB6	Cadmium-114	0.00100	0.04	0.100	ug/L	
SLE0043-CCB6	Copper-63	0.00100	0.173	0.500	ug/L	
SLE0043-CCB6	Copper-65	0.00200	0.35	0.500	ug/L	
SLE0043-CCB6	Zinc-66	0.0210	2.92	6.00	ug/L	
SLE0043-CCB6	Zinc-67	0.0400	0.94	6.00	ug/L	
SLE0043-CCB7	Arsenic-75a	0.00600	0.0373	0.200	ug/L	
SLE0043-CCB7	Cadmium-111	0.00300	0.03	0.100	ug/L	
SLE0043-CCB7	Cadmium-114	-0.00100	0.04	0.100	ug/L	
SLE0043-CCB7	Copper-63	0.00200	0.173	0.500	ug/L	
SLE0043-CCB7	Copper-65	0.00	0.35	0.500	ug/L	
SLE0043-CCB7	Zinc-66	0.0040	2.92	6.00	ug/L	
SLE0043-CCB7	Zinc-67	0.0160	0.94	6.00	ug/L	
SLE0043-CCB8	Arsenic-75a	0.00300	0.0373	0.200	ug/L	
SLE0043-CCB8	Cadmium-111	0.00	0.03	0.100	ug/L	
SLE0043-CCB8	Cadmium-114	0.00300	0.04	0.100	ug/L	
SLE0043-CCB8	Copper-63	0.00100	0.173	0.500	ug/L	
SLE0043-CCB8	Copper-65	-0.00100	0.35	0.500	ug/L	
SLE0043-CCB8	Zinc-66	0.0050	2.92	6.00	ug/L	
SLE0043-CCB8	Zinc-67	0.0350	0.94	6.00	ug/L	
SLE0043-CCB9	Arsenic-75a	0.00300	0.0373	0.200	ug/L	
SLE0043-CCB9	Cadmium-111	0.00300	0.03	0.100	ug/L	
SLE0043-CCB9	Cadmium-114	-0.00100	0.04	0.100	ug/L	
SLE0043-CCB9	Copper-63	0.00100	0.173	0.500	ug/L	
SLE0043-CCB9	Copper-65	-0.00200	0.35	0.500	ug/L	
SLE0043-CCB9	Zinc-66	0.0230	2.92	6.00	ug/L	
SLE0043-CCB9	Zinc-67	0.0260	0.94	6.00	ug/L	
SLE0043-CCBA	Arsenic-75a	0.00	0.0373	0.200	ug/L	
SLE0043-CCBA	Cadmium-111	-0.00400	0.03	0.100	ug/L	
SLE0043-CCBA	Cadmium-114	-0.00100	0.04	0.100	ug/L	
SLE0043-CCBA	Copper-63	-0.00200	0.173	0.500	ug/L	
SLE0043-CCBA	Copper-65	0.00400	0.35	0.500	ug/L	
SLE0043-CCBA	Zinc-66	-0.0010	2.92	6.00	ug/L	
SLE0043-CCBA	Zinc-67	-0.0420	0.94	6.00	ug/L	
SLE0043-IBL5	Arsenic-75a	-0.00300	0.0373	0.200	ug/L	
SLE0043-IBL5	Cadmium-111	0.00300	0.03	0.100	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0043

SDG: 23C0071
Project: AOC5 MR Phase 1
Calibration: GE00013
Date Analyzed: 05/02/23 23:07

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0043-IBL5	Cadmium-114	-0.00200	0.04	0.100	ug/L	
SLE0043-IBL5	Copper-63	0.00100	0.173	0.500	ug/L	
SLE0043-IBL5	Copper-65	0.00900	0.35	0.500	ug/L	
SLE0043-IBL5	Zinc-66	0.0390	2.92	6.00	ug/L	
SLE0043-IBL5	Zinc-67	0.0690	0.94	6.00	ug/L	
SLE0043-CCBB	Arsenic-75a	-0.00100	0.0373	0.200	ug/L	
SLE0043-CCBB	Cadmium-111	-0.00300	0.03	0.100	ug/L	
SLE0043-CCBB	Cadmium-114	-0.00100	0.04	0.100	ug/L	
SLE0043-CCBB	Copper-63	-0.00200	0.173	0.500	ug/L	
SLE0043-CCBB	Copper-65	0.00600	0.35	0.500	ug/L	
SLE0043-CCBB	Zinc-66	-0.0020	2.92	6.00	ug/L	
SLE0043-CCBB	Zinc-67	-0.0030	0.94	6.00	ug/L	
SLE0043-IBL6	Arsenic-75a	-0.00500	0.0373	0.200	ug/L	
SLE0043-IBL6	Cadmium-111	-0.00500	0.03	0.100	ug/L	
SLE0043-IBL6	Cadmium-114	-0.00200	0.04	0.100	ug/L	
SLE0043-IBL6	Copper-63	-0.00200	0.173	0.500	ug/L	
SLE0043-IBL6	Copper-65	0.00500	0.35	0.500	ug/L	
SLE0043-IBL6	Zinc-66	0.0410	2.92	6.00	ug/L	
SLE0043-IBL6	Zinc-67	-0.0340	0.94	6.00	ug/L	
SLE0043-IBL7	Arsenic-75a	-0.00200	0.0373	0.200	ug/L	
SLE0043-IBL7	Cadmium-111	0.00200	0.03	0.100	ug/L	
SLE0043-IBL7	Cadmium-114	0.00	0.04	0.100	ug/L	
SLE0043-IBL7	Copper-63	0.00300	0.173	0.500	ug/L	
SLE0043-IBL7	Copper-65	0.00400	0.35	0.500	ug/L	
SLE0043-IBL7	Zinc-66	0.0570	2.92	6.00	ug/L	
SLE0043-IBL7	Zinc-67	0.0610	0.94	6.00	ug/L	
SLE0043-CCBC	Arsenic-75a	0.0100	0.0373	0.200	ug/L	
SLE0043-CCBC	Cadmium-111	0.00300	0.03	0.100	ug/L	
SLE0043-CCBC	Cadmium-114	-0.00500	0.04	0.100	ug/L	
SLE0043-CCBC	Copper-63	0.00400	0.173	0.500	ug/L	
SLE0043-CCBC	Copper-65	0.0100	0.35	0.500	ug/L	
SLE0043-CCBC	Zinc-66	-0.0020	2.92	6.00	ug/L	
SLE0043-CCBC	Zinc-67	-0.0450	0.94	6.00	ug/L	
SLE0043-IBL8	Arsenic-75a	0.00100	0.0373	0.200	ug/L	
SLE0043-IBL8	Cadmium-111	0.00700	0.03	0.100	ug/L	
SLE0043-IBL8	Cadmium-114	0.00100	0.04	0.100	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0043

SDG: 23C0071
Project: AOC5 MR Phase 1
Calibration: GE00013
Date Analyzed: 05/03/23 01:06

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0043-IBL8	Copper-63	0.00100	0.173	0.500	ug/L	
SLE0043-IBL8	Copper-65	0.00300	0.35	0.500	ug/L	
SLE0043-IBL8	Zinc-66	0.0400	2.92	6.00	ug/L	
SLE0043-IBL8	Zinc-67	0.0450	0.94	6.00	ug/L	
SLE0043-CCBD	Arsenic-75a	0.00100	0.0373	0.200	ug/L	
SLE0043-CCBD	Cadmium-111	-0.00400	0.03	0.100	ug/L	
SLE0043-CCBD	Cadmium-114	0.00700	0.04	0.100	ug/L	
SLE0043-CCBD	Copper-63	0.00	0.173	0.500	ug/L	
SLE0043-CCBD	Copper-65	0.00100	0.35	0.500	ug/L	
SLE0043-CCBD	Zinc-66	-0.0070	2.92	6.00	ug/L	
SLE0043-CCBD	Zinc-67	-0.0250	0.94	6.00	ug/L	
SLE0043-IBL9	Arsenic-75a	0.00100	0.0373	0.200	ug/L	
SLE0043-IBL9	Cadmium-111	0.00100	0.03	0.100	ug/L	
SLE0043-IBL9	Cadmium-114	-0.00500	0.04	0.100	ug/L	
SLE0043-IBL9	Copper-63	0.00100	0.173	0.500	ug/L	
SLE0043-IBL9	Copper-65	0.00200	0.35	0.500	ug/L	
SLE0043-IBL9	Zinc-66	0.0560	2.92	6.00	ug/L	
SLE0043-IBL9	Zinc-67	0.0670	0.94	6.00	ug/L	
SLE0043-CCBE	Arsenic-75a	-0.00100	0.0373	0.200	ug/L	
SLE0043-CCBE	Cadmium-111	0.00500	0.03	0.100	ug/L	
SLE0043-CCBE	Cadmium-114	0.00300	0.04	0.100	ug/L	
SLE0043-CCBE	Copper-63	0.00	0.173	0.500	ug/L	
SLE0043-CCBE	Copper-65	0.00300	0.35	0.500	ug/L	
SLE0043-CCBE	Zinc-66	-0.0080	2.92	6.00	ug/L	
SLE0043-CCBE	Zinc-67	-0.0450	0.94	6.00	ug/L	
SLE0043-CCBF	Arsenic-75a	0.00700	0.0373	0.200	ug/L	
SLE0043-CCBF	Cadmium-111	-0.00300	0.03	0.100	ug/L	
SLE0043-CCBF	Cadmium-114	0.00300	0.04	0.100	ug/L	
SLE0043-CCBF	Copper-63	-0.00100	0.173	0.500	ug/L	
SLE0043-CCBF	Copper-65	-0.00100	0.35	0.500	ug/L	
SLE0043-CCBF	Zinc-66	-0.0350	2.92	6.00	ug/L	
SLE0043-CCBF	Zinc-67	-0.0270	0.94	6.00	ug/L	
SLE0043-IBLA	Arsenic-75a	-0.00200	0.0373	0.200	ug/L	
SLE0043-IBLA	Cadmium-111	-0.00200	0.03	0.100	ug/L	
SLE0043-IBLA	Cadmium-114	0.00700	0.04	0.100	ug/L	
SLE0043-IBLA	Copper-63	0.00400	0.173	0.500	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0043

SDG: 23C0071
Project: AOC5 MR Phase 1
Calibration: GE00013
Date Analyzed: 05/03/23 02:56

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0043-IBLA	Copper-65	0.00400	0.35	0.500	ug/L	
SLE0043-IBLA	Zinc-66	0.0420	2.92	6.00	ug/L	
SLE0043-IBLA	Zinc-67	0.0290	0.94	6.00	ug/L	
SLE0043-CCBG	Arsenic-75a	-0.00300	0.0373	0.200	ug/L	
SLE0043-CCBG	Cadmium-111	-0.00400	0.03	0.100	ug/L	
SLE0043-CCBG	Cadmium-114	0.00100	0.04	0.100	ug/L	
SLE0043-CCBG	Copper-63	0.00300	0.173	0.500	ug/L	
SLE0043-CCBG	Copper-65	-0.00100	0.35	0.500	ug/L	
SLE0043-CCBG	Zinc-66	-0.0260	2.92	6.00	ug/L	
SLE0043-CCBG	Zinc-67	-0.0530	0.94	6.00	ug/L	
SLE0043-IBLB	Arsenic-75a	-0.00600	0.0373	0.200	ug/L	
SLE0043-IBLB	Cadmium-111	-0.00500	0.03	0.100	ug/L	
SLE0043-IBLB	Cadmium-114	0.00100	0.04	0.100	ug/L	
SLE0043-IBLB	Copper-63	0.00300	0.173	0.500	ug/L	
SLE0043-IBLB	Copper-65	0.00200	0.35	0.500	ug/L	
SLE0043-IBLB	Zinc-66	0.0550	2.92	6.00	ug/L	
SLE0043-IBLB	Zinc-67	-0.0080	0.94	6.00	ug/L	
SLE0043-CCBH	Arsenic-75a	-0.00100	0.0373	0.200	ug/L	
SLE0043-CCBH	Cadmium-111	-0.00800	0.03	0.100	ug/L	
SLE0043-CCBH	Cadmium-114	0.00	0.04	0.100	ug/L	
SLE0043-CCBH	Copper-63	0.00100	0.173	0.500	ug/L	
SLE0043-CCBH	Copper-65	-0.00200	0.35	0.500	ug/L	
SLE0043-CCBH	Zinc-66	-0.0190	2.92	6.00	ug/L	
SLE0043-CCBH	Zinc-67	0.0160	0.94	6.00	ug/L	
SLE0043-IBLC	Arsenic-75a	-0.00400	0.0373	0.200	ug/L	
SLE0043-IBLC	Cadmium-111	-0.00200	0.03	0.100	ug/L	
SLE0043-IBLC	Cadmium-114	0.00200	0.04	0.100	ug/L	
SLE0043-IBLC	Copper-63	0.0320	0.173	0.500	ug/L	
SLE0043-IBLC	Copper-65	0.0290	0.35	0.500	ug/L	
SLE0043-IBLC	Zinc-66	0.0900	2.92	6.00	ug/L	
SLE0043-IBLC	Zinc-67	0.0780	0.94	6.00	ug/L	
SLE0043-CCBI	Arsenic-75a	-0.00100	0.0373	0.200	ug/L	
SLE0043-CCBI	Cadmium-111	-0.0100	0.03	0.100	ug/L	
SLE0043-CCBI	Cadmium-114	0.00400	0.04	0.100	ug/L	
SLE0043-CCBI	Copper-63	0.00	0.173	0.500	ug/L	
SLE0043-CCBI	Copper-65	-0.00100	0.35	0.500	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0043

SDG: 23C0071
Project: AOC5 MR Phase 1
Calibration: GE00013
Date Analyzed: 05/03/23 04:39

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0043-CCBI	Zinc-66	-0.0130	2.92	6.00	ug/L	
SLE0043-CCBI	Zinc-67	-0.0270	0.94	6.00	ug/L	
SLE0043-IBLD	Arsenic-75a	-0.00200	0.0373	0.200	ug/L	
SLE0043-IBLD	Cadmium-111	-0.00500	0.03	0.100	ug/L	
SLE0043-IBLD	Cadmium-114	0.00500	0.04	0.100	ug/L	
SLE0043-IBLD	Copper-63	0.00400	0.173	0.500	ug/L	
SLE0043-IBLD	Copper-65	0.00500	0.35	0.500	ug/L	
SLE0043-IBLD	Zinc-66	0.0030	2.92	6.00	ug/L	
SLE0043-IBLD	Zinc-67	-0.0300	0.94	6.00	ug/L	
SLE0043-CCBJ	Arsenic-75a	0.0160	0.0373	0.200	ug/L	
SLE0043-CCBJ	Cadmium-111	-0.00200	0.03	0.100	ug/L	
SLE0043-CCBJ	Cadmium-114	0.00300	0.04	0.100	ug/L	
SLE0043-CCBJ	Copper-63	0.0200	0.173	0.500	ug/L	
SLE0043-CCBJ	Copper-65	0.0240	0.35	0.500	ug/L	
SLE0043-CCBJ	Zinc-66	0.0090	2.92	6.00	ug/L	
SLE0043-CCBJ	Zinc-67	-0.0090	0.94	6.00	ug/L	
SLE0043-IBLE	Arsenic-75a	-0.00500	0.0373	0.200	ug/L	
SLE0043-IBLE	Cadmium-111	-0.00400	0.03	0.100	ug/L	
SLE0043-IBLE	Cadmium-114	-0.00300	0.04	0.100	ug/L	
SLE0043-IBLE	Copper-63	0.00800	0.173	0.500	ug/L	
SLE0043-IBLE	Copper-65	-0.00100	0.35	0.500	ug/L	
SLE0043-IBLE	Zinc-66	-0.0110	2.92	6.00	ug/L	
SLE0043-IBLE	Zinc-67	0.00	0.94	6.00	ug/L	
SLE0043-CCBK	Arsenic-75a	0.0130	0.0373	0.200	ug/L	
SLE0043-CCBK	Cadmium-111	-0.00100	0.03	0.100	ug/L	
SLE0043-CCBK	Cadmium-114	-0.00100	0.04	0.100	ug/L	
SLE0043-CCBK	Copper-63	0.0170	0.173	0.500	ug/L	
SLE0043-CCBK	Copper-65	0.0120	0.35	0.500	ug/L	
SLE0043-CCBK	Zinc-66	-0.0060	2.92	6.00	ug/L	
SLE0043-CCBK	Zinc-67	-0.0290	0.94	6.00	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0071

SDG: 23C0071
Project: AOC5 MR Phase 1
Calibration: GE00019
Date Analyzed: 05/03/23 14:07

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0071-IBL1	Arsenic-75a	0.0120	0.0373	0.200	ug/L	
SLE0071-IBL1	Copper-63	0.00200	0.173	0.500	ug/L	
SLE0071-IBL1	Copper-65	0.00300	0.35	0.500	ug/L	
SLE0071-IBL1	Zinc-66	0.0090	2.92	6.00	ug/L	
SLE0071-IBL1	Zinc-67	0.0410	0.94	6.00	ug/L	
SLE0071-ICB1	Arsenic-75a	0.00500	0.0373	0.200	ug/L	
SLE0071-ICB1	Copper-63	0.00700	0.173	0.500	ug/L	
SLE0071-ICB1	Copper-65	0.00500	0.35	0.500	ug/L	
SLE0071-ICB1	Zinc-66	0.0050	2.92	6.00	ug/L	
SLE0071-ICB1	Zinc-67	0.0300	0.94	6.00	ug/L	
SLE0071-CCB1	Arsenic-75a	-0.00200	0.0373	0.200	ug/L	
SLE0071-CCB1	Copper-63	0.00600	0.173	0.500	ug/L	
SLE0071-CCB1	Copper-65	0.00500	0.35	0.500	ug/L	
SLE0071-CCB1	Zinc-66	0.0020	2.92	6.00	ug/L	
SLE0071-CCB1	Zinc-67	0.0060	0.94	6.00	ug/L	
SLE0071-IBL2	Arsenic-75a	0.0210	0.0373	0.200	ug/L	
SLE0071-IBL2	Copper-63	0.0340	0.173	0.500	ug/L	
SLE0071-IBL2	Copper-65	0.0340	0.35	0.500	ug/L	
SLE0071-IBL2	Zinc-66	0.289	2.92	6.00	ug/L	
SLE0071-IBL2	Zinc-67	0.375	0.94	6.00	ug/L	
SLE0071-IBL3	Arsenic-75a	0.00400	0.0373	0.200	ug/L	
SLE0071-IBL3	Copper-63	0.0260	0.173	0.500	ug/L	
SLE0071-IBL3	Copper-65	0.0220	0.35	0.500	ug/L	
SLE0071-IBL3	Zinc-66	0.303	2.92	6.00	ug/L	
SLE0071-IBL3	Zinc-67	0.294	0.94	6.00	ug/L	
SLE0071-CCB2	Arsenic-75a	0.00700	0.0373	0.200	ug/L	
SLE0071-CCB2	Copper-63	0.00600	0.173	0.500	ug/L	
SLE0071-CCB2	Copper-65	0.00900	0.35	0.500	ug/L	
SLE0071-CCB2	Zinc-66	0.0180	2.92	6.00	ug/L	
SLE0071-CCB2	Zinc-67	0.0060	0.94	6.00	ug/L	
SLE0071-IBL4	Arsenic-75a	0.00100	0.0373	0.200	ug/L	
SLE0071-IBL4	Copper-63	0.00500	0.173	0.500	ug/L	
SLE0071-IBL4	Copper-65	0.00400	0.35	0.500	ug/L	
SLE0071-IBL4	Zinc-66	0.0410	2.92	6.00	ug/L	
SLE0071-IBL4	Zinc-67	0.0290	0.94	6.00	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0071

SDG: 23C0071
Project: AOC5 MR Phase 1
Calibration: GE00019
Date Analyzed: 05/03/23 16:55

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0071-CCB3	Arsenic-75a	0.00400	0.0373	0.200	ug/L	
SLE0071-CCB3	Copper-63	0.00700	0.173	0.500	ug/L	
SLE0071-CCB3	Copper-65	0.00700	0.35	0.500	ug/L	
SLE0071-CCB3	Zinc-66	0.0240	2.92	6.00	ug/L	
SLE0071-CCB3	Zinc-67	0.0210	0.94	6.00	ug/L	
SLE0071-CCB4	Arsenic-75a	-0.00300	0.0373	0.200	ug/L	
SLE0071-CCB4	Copper-63	0.00	0.173	0.500	ug/L	
SLE0071-CCB4	Copper-65	0.00	0.35	0.500	ug/L	
SLE0071-CCB4	Zinc-66	-0.0030	2.92	6.00	ug/L	
SLE0071-CCB4	Zinc-67	0.0180	0.94	6.00	ug/L	
SLE0071-IBL5	Arsenic-75a	-0.00800	0.0373	0.200	ug/L	
SLE0071-IBL5	Copper-63	0.00300	0.173	0.500	ug/L	
SLE0071-IBL5	Copper-65	0.00300	0.35	0.500	ug/L	
SLE0071-IBL5	Zinc-66	0.0300	2.92	6.00	ug/L	
SLE0071-IBL5	Zinc-67	0.0460	0.94	6.00	ug/L	
SLE0071-CCB5	Arsenic-75a	-0.00500	0.0373	0.200	ug/L	
SLE0071-CCB5	Copper-63	0.00100	0.173	0.500	ug/L	
SLE0071-CCB5	Copper-65	-0.00300	0.35	0.500	ug/L	
SLE0071-CCB5	Zinc-66	-0.0060	2.92	6.00	ug/L	
SLE0071-CCB5	Zinc-67	-0.0050	0.94	6.00	ug/L	
SLE0071-IBL6	Arsenic-75a	-0.00500	0.0373	0.200	ug/L	
SLE0071-IBL6	Copper-63	0.00200	0.173	0.500	ug/L	
SLE0071-IBL6	Copper-65	0.00200	0.35	0.500	ug/L	
SLE0071-IBL6	Zinc-66	0.0250	2.92	6.00	ug/L	
SLE0071-IBL6	Zinc-67	0.0390	0.94	6.00	ug/L	
SLE0071-CCB6	Arsenic-75a	0.00200	0.0373	0.200	ug/L	
SLE0071-CCB6	Copper-63	0.00300	0.173	0.500	ug/L	
SLE0071-CCB6	Copper-65	0.00600	0.35	0.500	ug/L	
SLE0071-CCB6	Zinc-66	0.0110	2.92	6.00	ug/L	
SLE0071-CCB6	Zinc-67	0.0020	0.94	6.00	ug/L	
SLE0071-IBL7	Arsenic-75a	-0.00700	0.0373	0.200	ug/L	
SLE0071-IBL7	Copper-63	0.00100	0.173	0.500	ug/L	
SLE0071-IBL7	Copper-65	0.00	0.35	0.500	ug/L	
SLE0071-IBL7	Zinc-66	0.0100	2.92	6.00	ug/L	
SLE0071-IBL7	Zinc-67	0.0110	0.94	6.00	ug/L	
SLE0071-IBL8	Arsenic-75a	-0.00200	0.0373	0.200	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0071

SDG: 23C0071
Project: AOC5 MR Phase 1
Calibration: GE00019
Date Analyzed: 05/03/23 20:21

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0071-IBL8	Copper-63	0.00100	0.173	0.500	ug/L	
SLE0071-IBL8	Copper-65	0.00200	0.35	0.500	ug/L	
SLE0071-IBL8	Zinc-66	0.0030	2.92	6.00	ug/L	
SLE0071-IBL8	Zinc-67	0.0880	0.94	6.00	ug/L	
SLE0071-CCB7	Arsenic-75a	-0.00800	0.0373	0.200	ug/L	
SLE0071-CCB7	Copper-63	0.00200	0.173	0.500	ug/L	
SLE0071-CCB7	Copper-65	0.00	0.35	0.500	ug/L	
SLE0071-CCB7	Zinc-66	0.0030	2.92	6.00	ug/L	
SLE0071-CCB7	Zinc-67	-0.0240	0.94	6.00	ug/L	
SLE0071-CCB8	Arsenic-75a	0.00700	0.0373	0.200	ug/L	
SLE0071-CCB8	Copper-63	0.00200	0.173	0.500	ug/L	
SLE0071-CCB8	Copper-65	-0.00200	0.35	0.500	ug/L	
SLE0071-CCB8	Zinc-66	-0.0040	2.92	6.00	ug/L	
SLE0071-CCB8	Zinc-67	0.0380	0.94	6.00	ug/L	
SLE0071-IBL9	Arsenic-75a	0.00200	0.0373	0.200	ug/L	
SLE0071-IBL9	Copper-63	0.00600	0.173	0.500	ug/L	
SLE0071-IBL9	Copper-65	0.00500	0.35	0.500	ug/L	
SLE0071-IBL9	Zinc-66	0.0840	2.92	6.00	ug/L	
SLE0071-IBL9	Zinc-67	0.0940	0.94	6.00	ug/L	
SLE0071-CCB9	Arsenic-75a	0.00300	0.0373	0.200	ug/L	
SLE0071-CCB9	Copper-63	0.00100	0.173	0.500	ug/L	
SLE0071-CCB9	Copper-65	-0.00100	0.35	0.500	ug/L	
SLE0071-CCB9	Zinc-66	0.0550	2.92	6.00	ug/L	
SLE0071-CCB9	Zinc-67	0.0720	0.94	6.00	ug/L	
SLE0071-IBLA	Arsenic-75a	0.00300	0.0373	0.200	ug/L	
SLE0071-IBLA	Copper-63	0.00500	0.173	0.500	ug/L	
SLE0071-IBLA	Copper-65	0.00400	0.35	0.500	ug/L	
SLE0071-IBLA	Zinc-66	0.0620	2.92	6.00	ug/L	
SLE0071-IBLA	Zinc-67	0.134	0.94	6.00	ug/L	
SLE0071-CCBA	Arsenic-75a	0.00500	0.0373	0.200	ug/L	
SLE0071-CCBA	Copper-63	0.00200	0.173	0.500	ug/L	
SLE0071-CCBA	Copper-65	0.00	0.35	0.500	ug/L	
SLE0071-CCBA	Zinc-66	0.0750	2.92	6.00	ug/L	
SLE0071-CCBA	Zinc-67	0.0700	0.94	6.00	ug/L	
SLE0071-IBLB	Arsenic-75a	-0.00300	0.0373	0.200	ug/L	
SLE0071-IBLB	Copper-63	0.00500	0.173	0.500	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0071

SDG: 23C0071
Project: AOC5 MR Phase 1
Calibration: GE00019
Date Analyzed: 05/03/23 23:07

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0071-IBLB	Copper-65	0.00100	0.35	0.500	ug/L	
SLE0071-IBLB	Zinc-66	0.102	2.92	6.00	ug/L	
SLE0071-IBLB	Zinc-67	0.120	0.94	6.00	ug/L	
SLE0071-IBLC	Arsenic-75a	0.00700	0.0373	0.200	ug/L	
SLE0071-IBLC	Copper-63	0.00800	0.173	0.500	ug/L	
SLE0071-IBLC	Copper-65	0.00600	0.35	0.500	ug/L	
SLE0071-IBLC	Zinc-66	0.0720	2.92	6.00	ug/L	
SLE0071-IBLC	Zinc-67	0.0680	0.94	6.00	ug/L	
SLE0071-CCBB	Arsenic-75a	0.00500	0.0373	0.200	ug/L	
SLE0071-CCBB	Copper-63	0.00	0.173	0.500	ug/L	
SLE0071-CCBB	Copper-65	0.00	0.35	0.500	ug/L	
SLE0071-CCBB	Zinc-66	0.0540	2.92	6.00	ug/L	
SLE0071-CCBB	Zinc-67	0.0370	0.94	6.00	ug/L	
SLE0071-IBLD	Arsenic-75a	0.00100	0.0373	0.200	ug/L	
SLE0071-IBLD	Copper-63	0.00400	0.173	0.500	ug/L	
SLE0071-IBLD	Copper-65	0.00300	0.35	0.500	ug/L	
SLE0071-IBLD	Zinc-66	0.0540	2.92	6.00	ug/L	
SLE0071-IBLD	Zinc-67	0.137	0.94	6.00	ug/L	
SLE0071-IBLE	Arsenic-75a	-0.00100	0.0373	0.200	ug/L	
SLE0071-IBLE	Copper-63	0.00500	0.173	0.500	ug/L	
SLE0071-IBLE	Copper-65	0.00300	0.35	0.500	ug/L	
SLE0071-IBLE	Zinc-66	0.0910	2.92	6.00	ug/L	
SLE0071-IBLE	Zinc-67	0.0970	0.94	6.00	ug/L	
SLE0071-CCBC	Arsenic-75a	0.00800	0.0373	0.200	ug/L	
SLE0071-CCBC	Copper-63	0.00	0.173	0.500	ug/L	
SLE0071-CCBC	Copper-65	-0.00200	0.35	0.500	ug/L	
SLE0071-CCBC	Zinc-66	0.0620	2.92	6.00	ug/L	
SLE0071-CCBC	Zinc-67	0.0390	0.94	6.00	ug/L	
SLE0071-IBLF	Arsenic-75a	0.00200	0.0373	0.200	ug/L	
SLE0071-IBLF	Copper-63	0.00500	0.173	0.500	ug/L	
SLE0071-IBLF	Copper-65	0.00600	0.35	0.500	ug/L	
SLE0071-IBLF	Zinc-66	0.0800	2.92	6.00	ug/L	
SLE0071-IBLF	Zinc-67	0.107	0.94	6.00	ug/L	
SLE0071-IBLG	Arsenic-75a	0.00	0.0373	0.200	ug/L	
SLE0071-IBLG	Copper-63	0.00600	0.173	0.500	ug/L	
SLE0071-IBLG	Copper-65	0.00500	0.35	0.500	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0071

SDG: 23C0071
Project: AOC5 MR Phase 1
Calibration: GE00019
Date Analyzed: 05/04/23 00:55

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0071-IBLG	Zinc-66	0.0900	2.92	6.00	ug/L	
SLE0071-IBLG	Zinc-67	0.152	0.94	6.00	ug/L	
SLE0071-CCBD	Arsenic-75a	0.00700	0.0373	0.200	ug/L	
SLE0071-CCBD	Copper-63	0.00400	0.173	0.500	ug/L	
SLE0071-CCBD	Copper-65	0.00300	0.35	0.500	ug/L	
SLE0071-CCBD	Zinc-66	0.0900	2.92	6.00	ug/L	
SLE0071-CCBD	Zinc-67	0.0440	0.94	6.00	ug/L	
SLE0071-CCBE	Arsenic-75a	-0.00100	0.0373	0.200	ug/L	
SLE0071-CCBE	Copper-63	-0.00200	0.173	0.500	ug/L	
SLE0071-CCBE	Copper-65	0.00100	0.35	0.500	ug/L	
SLE0071-CCBE	Zinc-66	0.0020	2.92	6.00	ug/L	
SLE0071-CCBE	Zinc-67	-0.0090	0.94	6.00	ug/L	
SLE0071-IBLH	Arsenic-75a	-0.00400	0.0373	0.200	ug/L	
SLE0071-IBLH	Copper-63	0.00600	0.173	0.500	ug/L	
SLE0071-IBLH	Copper-65	0.00700	0.35	0.500	ug/L	
SLE0071-IBLH	Zinc-66	-0.0620	2.92	6.00	ug/L	
SLE0071-IBLH	Zinc-67	-0.0540	0.94	6.00	ug/L	
SLE0071-CCBF	Arsenic-75a	0.00300	0.0373	0.200	ug/L	
SLE0071-CCBF	Copper-63	-0.00200	0.173	0.500	ug/L	
SLE0071-CCBF	Copper-65	-0.00300	0.35	0.500	ug/L	
SLE0071-CCBF	Zinc-66	-0.0070	2.92	6.00	ug/L	
SLE0071-CCBF	Zinc-67	0.0020	0.94	6.00	ug/L	
SLE0071-IBLI	Arsenic-75a	0.00	0.0373	0.200	ug/L	
SLE0071-IBLI	Copper-63	0.00200	0.173	0.500	ug/L	
SLE0071-IBLI	Copper-65	0.00200	0.35	0.500	ug/L	
SLE0071-IBLI	Zinc-66	-0.0540	2.92	6.00	ug/L	
SLE0071-IBLI	Zinc-67	0.0030	0.94	6.00	ug/L	
SLE0071-CCBG	Arsenic-75a	0.00100	0.0373	0.200	ug/L	
SLE0071-CCBG	Copper-63	-0.00500	0.173	0.500	ug/L	
SLE0071-CCBG	Copper-65	-0.00600	0.35	0.500	ug/L	
SLE0071-CCBG	Zinc-66	-0.0260	2.92	6.00	ug/L	
SLE0071-CCBG	Zinc-67	-0.0250	0.94	6.00	ug/L	
SLE0071-CCBH	Arsenic-75a	0.00700	0.0373	0.200	ug/L	
SLE0071-CCBH	Copper-63	-0.00200	0.173	0.500	ug/L	
SLE0071-CCBH	Copper-65	-0.00200	0.35	0.500	ug/L	
SLE0071-CCBH	Zinc-66	-0.0180	2.92	6.00	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0071

SDG: 23C0071
Project: AOC5 MR Phase 1
Calibration: GE00019
Date Analyzed: 05/04/23 03:15

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0071-CCBH	Zinc-67	-0.0240	0.94	6.00	ug/L	
SLE0071-IBLJ	Arsenic-75a	0.00	0.0373	0.200	ug/L	
SLE0071-IBLJ	Copper-63	0.0110	0.173	0.500	ug/L	
SLE0071-IBLJ	Copper-65	0.0140	0.35	0.500	ug/L	
SLE0071-IBLJ	Zinc-66	-0.0050	2.92	6.00	ug/L	
SLE0071-IBLJ	Zinc-67	-0.0610	0.94	6.00	ug/L	
SLE0071-CCBI	Arsenic-75a	0.00	0.0373	0.200	ug/L	
SLE0071-CCBI	Copper-63	-0.00400	0.173	0.500	ug/L	
SLE0071-CCBI	Copper-65	0.00	0.35	0.500	ug/L	
SLE0071-CCBI	Zinc-66	-0.0400	2.92	6.00	ug/L	
SLE0071-CCBI	Zinc-67	-0.0190	0.94	6.00	ug/L	
SLE0071-CCBJ	Arsenic-75a	0.00	0.0373	0.200	ug/L	
SLE0071-CCBJ	Copper-63	-0.00500	0.173	0.500	ug/L	
SLE0071-CCBJ	Copper-65	-0.00400	0.35	0.500	ug/L	
SLE0071-CCBJ	Zinc-66	-0.0090	2.92	6.00	ug/L	
SLE0071-CCBJ	Zinc-67	-0.0530	0.94	6.00	ug/L	
SLE0071-CCBK	Arsenic-75a	0.0120	0.0373	0.200	ug/L	
SLE0071-CCBK	Copper-63	0.0120	0.173	0.500	ug/L	
SLE0071-CCBK	Copper-65	0.0150	0.35	0.500	ug/L	
SLE0071-CCBK	Zinc-66	-0.0280	2.92	6.00	ug/L	
SLE0071-CCBK	Zinc-67	-0.0690	0.94	6.00	ug/L	
SLE0071-IBLK	Arsenic-75a	-0.00300	0.0373	0.200	ug/L	
SLE0071-IBLK	Copper-63	0.00200	0.173	0.500	ug/L	
SLE0071-IBLK	Copper-65	0.00800	0.35	0.500	ug/L	
SLE0071-IBLK	Zinc-66	-0.0550	2.92	6.00	ug/L	
SLE0071-IBLK	Zinc-67	-0.0690	0.94	6.00	ug/L	
SLE0071-CCBL	Arsenic-75a	-0.00200	0.0373	0.200	ug/L	
SLE0071-CCBL	Copper-63	-0.00500	0.173	0.500	ug/L	
SLE0071-CCBL	Copper-65	-0.00400	0.35	0.500	ug/L	
SLE0071-CCBL	Zinc-66	-0.0160	2.92	6.00	ug/L	
SLE0071-CCBL	Zinc-67	-0.0400	0.94	6.00	ug/L	
SLE0071-IBLL	Arsenic-75a	-0.00300	0.0373	0.200	ug/L	
SLE0071-IBLL	Copper-63	0.0180	0.173	0.500	ug/L	
SLE0071-IBLL	Copper-65	0.00700	0.35	0.500	ug/L	
SLE0071-IBLL	Zinc-66	-0.0380	2.92	6.00	ug/L	
SLE0071-IBLL	Zinc-67	-0.0870	0.94	6.00	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0071

SDG: 23C0071
Project: AOC5 MR Phase 1
Calibration: GE00019
Date Analyzed: 05/04/23 06:06

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0071-CCBM	Arsenic-75a	0.00200	0.0373	0.200	ug/L	
SLE0071-CCBM	Copper-63	0.00	0.173	0.500	ug/L	
SLE0071-CCBM	Copper-65	-0.00200	0.35	0.500	ug/L	
SLE0071-CCBM	Zinc-66	-0.0430	2.92	6.00	ug/L	
SLE0071-CCBM	Zinc-67	0.0240	0.94	6.00	ug/L	
SLE0071-IBLM	Arsenic-75a	0.00700	0.0373	0.200	ug/L	
SLE0071-IBLM	Copper-63	0.00300	0.173	0.500	ug/L	
SLE0071-IBLM	Copper-65	0.00500	0.35	0.500	ug/L	
SLE0071-IBLM	Zinc-66	0.0810	2.92	6.00	ug/L	
SLE0071-IBLM	Zinc-67	0.0950	0.94	6.00	ug/L	
SLE0071-CCBN	Arsenic-75a	0.0160	0.0373	0.200	ug/L	
SLE0071-CCBN	Copper-63	0.0110	0.173	0.500	ug/L	
SLE0071-CCBN	Copper-65	0.0100	0.35	0.500	ug/L	
SLE0071-CCBN	Zinc-66	0.0060	2.92	6.00	ug/L	
SLE0071-CCBN	Zinc-67	-0.0460	0.94	6.00	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0204

SDG: 23C0071
Project: AOC5 MR Phase 1
Calibration: GE00040
Date Analyzed: 05/10/23 16:19

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0204-IBL1	Arsenic-75a	0.00400	0.0373	0.200	ug/L	
SLE0204-IBL1	Cadmium-111	-0.00600	0.03	0.100	ug/L	
SLE0204-IBL1	Cadmium-114	-0.00200	0.04	0.100	ug/L	
SLE0204-IBL1	Copper-63	0.00300	0.173	0.500	ug/L	
SLE0204-IBL1	Copper-65	0.00100	0.35	0.500	ug/L	
SLE0204-IBL1	Zinc-66	0.0070	2.92	6.00	ug/L	
SLE0204-IBL1	Zinc-67	-0.0250	0.94	6.00	ug/L	
SLE0204-ICB1	Arsenic-75a	0.00700	0.0373	0.200	ug/L	
SLE0204-ICB1	Cadmium-111	-0.00200	0.03	0.100	ug/L	
SLE0204-ICB1	Cadmium-114	-0.00600	0.04	0.100	ug/L	
SLE0204-ICB1	Copper-63	0.00500	0.173	0.500	ug/L	
SLE0204-ICB1	Copper-65	0.00400	0.35	0.500	ug/L	
SLE0204-ICB1	Zinc-66	0.0200	2.92	6.00	ug/L	
SLE0204-ICB1	Zinc-67	-0.0030	0.94	6.00	ug/L	
SLE0204-CCB1	Arsenic-75a	0.00400	0.0373	0.200	ug/L	
SLE0204-CCB1	Cadmium-111	0.00300	0.03	0.100	ug/L	
SLE0204-CCB1	Cadmium-114	-0.00200	0.04	0.100	ug/L	
SLE0204-CCB1	Copper-63	0.00100	0.173	0.500	ug/L	
SLE0204-CCB1	Copper-65	-0.00500	0.35	0.500	ug/L	
SLE0204-CCB1	Zinc-66	0.0050	2.92	6.00	ug/L	
SLE0204-CCB1	Zinc-67	0.0230	0.94	6.00	ug/L	
SLE0204-IBL2	Arsenic-75a	0.0130	0.0373	0.200	ug/L	
SLE0204-IBL2	Cadmium-111	0.00	0.03	0.100	ug/L	
SLE0204-IBL2	Cadmium-114	0.00	0.04	0.100	ug/L	
SLE0204-IBL2	Copper-63	0.00300	0.173	0.500	ug/L	
SLE0204-IBL2	Copper-65	0.00300	0.35	0.500	ug/L	
SLE0204-IBL2	Zinc-66	0.0190	2.92	6.00	ug/L	
SLE0204-IBL2	Zinc-67	0.0310	0.94	6.00	ug/L	
SLE0204-CCB2	Arsenic-75a	0.00800	0.0373	0.200	ug/L	
SLE0204-CCB2	Cadmium-111	-0.00100	0.03	0.100	ug/L	
SLE0204-CCB2	Cadmium-114	-0.00100	0.04	0.100	ug/L	
SLE0204-CCB2	Copper-63	0.00	0.173	0.500	ug/L	
SLE0204-CCB2	Copper-65	0.00	0.35	0.500	ug/L	
SLE0204-CCB2	Zinc-66	0.0090	2.92	6.00	ug/L	
SLE0204-CCB2	Zinc-67	-0.0040	0.94	6.00	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0204

SDG: 23C0071
Project: AOC5 MR Phase 1
Calibration: GE00040
Date Analyzed: 05/10/23 17:49

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0204-CCB3	Arsenic-75a	0.00	0.0373	0.200	ug/L	
SLE0204-CCB3	Cadmium-111	0.00700	0.03	0.100	ug/L	
SLE0204-CCB3	Cadmium-114	0.0270	0.04	0.100	ug/L	
SLE0204-CCB3	Copper-63	0.00	0.173	0.500	ug/L	
SLE0204-CCB3	Copper-65	-0.00100	0.35	0.500	ug/L	
SLE0204-CCB3	Zinc-66	0.0010	2.92	6.00	ug/L	
SLE0204-CCB3	Zinc-67	-0.0230	0.94	6.00	ug/L	
SLE0204-IBL3	Arsenic-75a	-0.00200	0.0373	0.200	ug/L	
SLE0204-IBL3	Cadmium-111	-0.00400	0.03	0.100	ug/L	
SLE0204-IBL3	Cadmium-114	-0.00200	0.04	0.100	ug/L	
SLE0204-IBL3	Copper-63	0.00700	0.173	0.500	ug/L	
SLE0204-IBL3	Copper-65	0.00100	0.35	0.500	ug/L	
SLE0204-IBL3	Zinc-66	0.0820	2.92	6.00	ug/L	
SLE0204-IBL3	Zinc-67	0.0490	0.94	6.00	ug/L	
SLE0204-CCB4	Arsenic-75a	-0.00100	0.0373	0.200	ug/L	
SLE0204-CCB4	Cadmium-111	0.00100	0.03	0.100	ug/L	
SLE0204-CCB4	Cadmium-114	0.00100	0.04	0.100	ug/L	
SLE0204-CCB4	Copper-63	0.00600	0.173	0.500	ug/L	
SLE0204-CCB4	Copper-65	0.00200	0.35	0.500	ug/L	
SLE0204-CCB4	Zinc-66	-0.0020	2.92	6.00	ug/L	
SLE0204-CCB4	Zinc-67	0.0040	0.94	6.00	ug/L	
SLE0204-IBL4	Arsenic-75a	-0.00400	0.0373	0.200	ug/L	
SLE0204-IBL4	Cadmium-111	-0.00600	0.03	0.100	ug/L	
SLE0204-IBL4	Cadmium-114	-0.00200	0.04	0.100	ug/L	
SLE0204-IBL4	Copper-63	0.00400	0.173	0.500	ug/L	
SLE0204-IBL4	Copper-65	0.00300	0.35	0.500	ug/L	
SLE0204-IBL4	Zinc-66	0.0700	2.92	6.00	ug/L	
SLE0204-IBL4	Zinc-67	0.0350	0.94	6.00	ug/L	
SLE0204-IBL5	Arsenic-75a	-0.00400	0.0373	0.200	ug/L	
SLE0204-IBL5	Cadmium-111	-0.00500	0.03	0.100	ug/L	
SLE0204-IBL5	Cadmium-114	-0.00300	0.04	0.100	ug/L	
SLE0204-IBL5	Copper-63	-0.00100	0.173	0.500	ug/L	
SLE0204-IBL5	Copper-65	-0.00100	0.35	0.500	ug/L	
SLE0204-IBL5	Zinc-66	0.0530	2.92	6.00	ug/L	
SLE0204-IBL5	Zinc-67	0.0420	0.94	6.00	ug/L	
SLE0204-CCB5	Arsenic-75a	-0.00100	0.0373	0.200	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0204

SDG: 23C0071
Project: AOC5 MR Phase 1
Calibration: GE00040
Date Analyzed: 05/10/23 19:56

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0204-CCB5	Cadmium-111	0.00100	0.03	0.100	ug/L	
SLE0204-CCB5	Cadmium-114	0.00200	0.04	0.100	ug/L	
SLE0204-CCB5	Copper-63	0.00200	0.173	0.500	ug/L	
SLE0204-CCB5	Copper-65	0.00	0.35	0.500	ug/L	
SLE0204-CCB5	Zinc-66	-0.0150	2.92	6.00	ug/L	
SLE0204-CCB5	Zinc-67	0.0150	0.94	6.00	ug/L	
SLE0204-CCB6	Arsenic-75a	0.0100	0.0373	0.200	ug/L	
SLE0204-CCB6	Cadmium-111	-0.00800	0.03	0.100	ug/L	
SLE0204-CCB6	Cadmium-114	0.00200	0.04	0.100	ug/L	
SLE0204-CCB6	Copper-63	0.00200	0.173	0.500	ug/L	
SLE0204-CCB6	Copper-65	-0.00100	0.35	0.500	ug/L	
SLE0204-CCB6	Zinc-66	-0.0240	2.92	6.00	ug/L	
SLE0204-CCB6	Zinc-67	-0.0910	0.94	6.00	ug/L	
SLE0204-IBL6	Arsenic-75a	0.00	0.0373	0.200	ug/L	
SLE0204-IBL6	Cadmium-111	-0.00300	0.03	0.100	ug/L	
SLE0204-IBL6	Cadmium-114	0.00400	0.04	0.100	ug/L	
SLE0204-IBL6	Copper-63	0.00400	0.173	0.500	ug/L	
SLE0204-IBL6	Copper-65	0.00500	0.35	0.500	ug/L	
SLE0204-IBL6	Zinc-66	0.0170	2.92	6.00	ug/L	
SLE0204-IBL6	Zinc-67	-0.0430	0.94	6.00	ug/L	
SLE0204-CCB7	Arsenic-75a	0.0140	0.0373	0.200	ug/L	
SLE0204-CCB7	Cadmium-111	-0.00900	0.03	0.100	ug/L	
SLE0204-CCB7	Cadmium-114	0.00	0.04	0.100	ug/L	
SLE0204-CCB7	Copper-63	0.0230	0.173	0.500	ug/L	
SLE0204-CCB7	Copper-65	0.0230	0.35	0.500	ug/L	
SLE0204-CCB7	Zinc-66	-0.0280	2.92	6.00	ug/L	
SLE0204-CCB7	Zinc-67	-0.0330	0.94	6.00	ug/L	
SLE0204-IBL7	Arsenic-75a	0.00	0.0373	0.200	ug/L	
SLE0204-IBL7	Cadmium-111	-0.00800	0.03	0.100	ug/L	
SLE0204-IBL7	Cadmium-114	0.00300	0.04	0.100	ug/L	
SLE0204-IBL7	Copper-63	0.00200	0.173	0.500	ug/L	
SLE0204-IBL7	Copper-65	0.00200	0.35	0.500	ug/L	
SLE0204-IBL7	Zinc-66	-0.0450	2.92	6.00	ug/L	
SLE0204-IBL7	Zinc-67	-0.0920	0.94	6.00	ug/L	
SLE0204-CCB8	Arsenic-75a	0.00300	0.0373	0.200	ug/L	
SLE0204-CCB8	Cadmium-111	-0.00900	0.03	0.100	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0204

SDG: 23C0071
Project: AOC5 MR Phase 1
Calibration: GE00040
Date Analyzed: 05/10/23 22:32

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0204-CCB8	Cadmium-114	0.00200	0.04	0.100	ug/L	
SLE0204-CCB8	Copper-63	0.00200	0.173	0.500	ug/L	
SLE0204-CCB8	Copper-65	0.00200	0.35	0.500	ug/L	
SLE0204-CCB8	Zinc-66	-0.0360	2.92	6.00	ug/L	
SLE0204-CCB8	Zinc-67	-0.0810	0.94	6.00	ug/L	
SLE0204-IBL8	Arsenic-75a	0.0750	0.0373	0.200	ug/L	
SLE0204-IBL8	Cadmium-111	-0.0120	0.03	0.100	ug/L	
SLE0204-IBL8	Cadmium-114	0.00200	0.04	0.100	ug/L	
SLE0204-IBL8	Copper-63	0.0820	0.173	0.500	ug/L	
SLE0204-IBL8	Copper-65	0.0820	0.35	0.500	ug/L	
SLE0204-IBL8	Zinc-66	0.206	2.92	6.00	ug/L	
SLE0204-IBL8	Zinc-67	0.0940	0.94	6.00	ug/L	
SLE0204-CCB9	Arsenic-75a	0.0230	0.0373	0.200	ug/L	
SLE0204-CCB9	Cadmium-111	-0.00200	0.03	0.100	ug/L	
SLE0204-CCB9	Cadmium-114	0.00200	0.04	0.100	ug/L	
SLE0204-CCB9	Copper-63	0.0160	0.173	0.500	ug/L	
SLE0204-CCB9	Copper-65	0.0180	0.35	0.500	ug/L	
SLE0204-CCB9	Zinc-66	0.0010	2.92	6.00	ug/L	
SLE0204-CCB9	Zinc-67	-0.0630	0.94	6.00	ug/L	
SLE0204-IBL9	Arsenic-75a	0.00300	0.0373	0.200	ug/L	
SLE0204-IBL9	Cadmium-111	-0.0120	0.03	0.100	ug/L	
SLE0204-IBL9	Cadmium-114	-0.00200	0.04	0.100	ug/L	
SLE0204-IBL9	Copper-63	0.0140	0.173	0.500	ug/L	
SLE0204-IBL9	Copper-65	0.0100	0.35	0.500	ug/L	
SLE0204-IBL9	Zinc-66	-0.0300	2.92	6.00	ug/L	
SLE0204-IBL9	Zinc-67	-0.0670	0.94	6.00	ug/L	
SLE0204-CCBA	Arsenic-75a	0.00700	0.0373	0.200	ug/L	
SLE0204-CCBA	Cadmium-111	-0.00800	0.03	0.100	ug/L	
SLE0204-CCBA	Cadmium-114	0.00100	0.04	0.100	ug/L	
SLE0204-CCBA	Copper-63	0.00300	0.173	0.500	ug/L	
SLE0204-CCBA	Copper-65	0.00400	0.35	0.500	ug/L	
SLE0204-CCBA	Zinc-66	-0.0580	2.92	6.00	ug/L	
SLE0204-CCBA	Zinc-67	-0.135	0.94	6.00	ug/L	
SLE0204-IBLA	Arsenic-75a	0.00100	0.0373	0.200	ug/L	
SLE0204-IBLA	Cadmium-111	-0.0100	0.03	0.100	ug/L	
SLE0204-IBLA	Cadmium-114	0.00	0.04	0.100	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0204

SDG: 23C0071
Project: AOC5 MR Phase 1
Calibration: GE00040
Date Analyzed: 05/11/23 01:08

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0204-IBLA	Copper-63	0.00800	0.173	0.500	ug/L	
SLE0204-IBLA	Copper-65	0.00400	0.35	0.500	ug/L	
SLE0204-IBLA	Zinc-66	-0.0280	2.92	6.00	ug/L	
SLE0204-IBLA	Zinc-67	-0.109	0.94	6.00	ug/L	
SLE0204-CCBB	Arsenic-75a	0.00600	0.0373	0.200	ug/L	
SLE0204-CCBB	Cadmium-111	-0.0110	0.03	0.100	ug/L	
SLE0204-CCBB	Cadmium-114	-0.00100	0.04	0.100	ug/L	
SLE0204-CCBB	Copper-63	0.00700	0.173	0.500	ug/L	
SLE0204-CCBB	Copper-65	0.0110	0.35	0.500	ug/L	
SLE0204-CCBB	Zinc-66	-0.0550	2.92	6.00	ug/L	
SLE0204-CCBB	Zinc-67	-0.111	0.94	6.00	ug/L	
SLE0204-CCBC	Arsenic-75a	-0.00500	0.0373	0.200	ug/L	
SLE0204-CCBC	Cadmium-111	-0.00400	0.03	0.100	ug/L	
SLE0204-CCBC	Cadmium-114	0.00	0.04	0.100	ug/L	
SLE0204-CCBC	Copper-63	-0.0170	0.173	0.500	ug/L	
SLE0204-CCBC	Copper-65	-0.0240	0.35	0.500	ug/L	
SLE0204-CCBC	Zinc-66	-0.0230	2.92	6.00	ug/L	
SLE0204-CCBC	Zinc-67	-0.0620	0.94	6.00	ug/L	
SLE0204-IBLB	Arsenic-75a	-0.00700	0.0373	0.200	ug/L	
SLE0204-IBLB	Cadmium-111	-0.00400	0.03	0.100	ug/L	
SLE0204-IBLB	Cadmium-114	-0.00100	0.04	0.100	ug/L	
SLE0204-IBLB	Copper-63	0.0140	0.173	0.500	ug/L	
SLE0204-IBLB	Copper-65	0.0100	0.35	0.500	ug/L	
SLE0204-IBLB	Zinc-66	-0.0130	2.92	6.00	ug/L	
SLE0204-IBLB	Zinc-67	-0.0850	0.94	6.00	ug/L	
SLE0204-CCBD	Arsenic-75a	0.0120	0.0373	0.200	ug/L	
SLE0204-CCBD	Cadmium-111	-0.00300	0.03	0.100	ug/L	
SLE0204-CCBD	Cadmium-114	-0.00100	0.04	0.100	ug/L	
SLE0204-CCBD	Copper-63	0.0110	0.173	0.500	ug/L	
SLE0204-CCBD	Copper-65	0.00300	0.35	0.500	ug/L	
SLE0204-CCBD	Zinc-66	-0.0380	2.92	6.00	ug/L	
SLE0204-CCBD	Zinc-67	-0.0870	0.94	6.00	ug/L	
SLE0204-IBLC	Arsenic-75a	-0.00700	0.0373	0.200	ug/L	
SLE0204-IBLC	Cadmium-111	-0.00200	0.03	0.100	ug/L	
SLE0204-IBLC	Cadmium-114	0.00200	0.04	0.100	ug/L	
SLE0204-IBLC	Copper-63	-0.0300	0.173	0.500	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0204

SDG: 23C0071
Project: AOC5 MR Phase 1
Calibration: GE00040
Date Analyzed: 05/11/23 02:57

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0204-IBLC	Copper-65	-0.0360	0.35	0.500	ug/L	
SLE0204-IBLC	Zinc-66	-0.0170	2.92	6.00	ug/L	
SLE0204-IBLC	Zinc-67	-0.107	0.94	6.00	ug/L	
SLE0204-IBLD	Arsenic-75a	-0.00900	0.0373	0.200	ug/L	
SLE0204-IBLD	Cadmium-111	0.00	0.03	0.100	ug/L	
SLE0204-IBLD	Cadmium-114	0.00100	0.04	0.100	ug/L	
SLE0204-IBLD	Copper-63	-0.0310	0.173	0.500	ug/L	
SLE0204-IBLD	Copper-65	-0.0330	0.35	0.500	ug/L	
SLE0204-IBLD	Zinc-66	-0.0130	2.92	6.00	ug/L	
SLE0204-IBLD	Zinc-67	-0.0600	0.94	6.00	ug/L	
SLE0204-CCBE	Arsenic-75a	-0.00600	0.0373	0.200	ug/L	
SLE0204-CCBE	Cadmium-111	-0.00100	0.03	0.100	ug/L	
SLE0204-CCBE	Cadmium-114	0.00400	0.04	0.100	ug/L	
SLE0204-CCBE	Copper-63	-0.0350	0.173	0.500	ug/L	
SLE0204-CCBE	Copper-65	-0.0400	0.35	0.500	ug/L	
SLE0204-CCBE	Zinc-66	-0.0710	2.92	6.00	ug/L	
SLE0204-CCBE	Zinc-67	-0.155	0.94	6.00	ug/L	
SLE0204-IBLE	Arsenic-75a	-0.00800	0.0373	0.200	ug/L	
SLE0204-IBLE	Cadmium-111	-0.00500	0.03	0.100	ug/L	
SLE0204-IBLE	Cadmium-114	0.00400	0.04	0.100	ug/L	
SLE0204-IBLE	Copper-63	-0.0340	0.173	0.500	ug/L	
SLE0204-IBLE	Copper-65	-0.0360	0.35	0.500	ug/L	
SLE0204-IBLE	Zinc-66	-0.0450	2.92	6.00	ug/L	
SLE0204-IBLE	Zinc-67	-0.0590	0.94	6.00	ug/L	
SLE0204-IBLF	Arsenic-75a	-0.00700	0.0373	0.200	ug/L	
SLE0204-IBLF	Cadmium-111	-0.00300	0.03	0.100	ug/L	
SLE0204-IBLF	Cadmium-114	0.00	0.04	0.100	ug/L	
SLE0204-IBLF	Copper-63	-0.0350	0.173	0.500	ug/L	
SLE0204-IBLF	Copper-65	-0.0410	0.35	0.500	ug/L	
SLE0204-IBLF	Zinc-66	-0.0640	2.92	6.00	ug/L	
SLE0204-IBLF	Zinc-67	-0.122	0.94	6.00	ug/L	
SLE0204-CCBF	Arsenic-75a	-0.00500	0.0373	0.200	ug/L	
SLE0204-CCBF	Cadmium-111	-0.00200	0.03	0.100	ug/L	
SLE0204-CCBF	Cadmium-114	0.00200	0.04	0.100	ug/L	
SLE0204-CCBF	Copper-63	-0.0370	0.173	0.500	ug/L	
SLE0204-CCBF	Copper-65	-0.0380	0.35	0.500	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0204

SDG: 23C0071
Project: AOC5 MR Phase 1
Calibration: GE00040
Date Analyzed: 05/11/23 04:33

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0204-CCBF	Zinc-66	-0.0700	2.92	6.00	ug/L	
SLE0204-CCBF	Zinc-67	-0.130	0.94	6.00	ug/L	
SLE0204-CCBG	Arsenic-75a	-0.00300	0.0373	0.200	ug/L	
SLE0204-CCBG	Cadmium-111	-0.00400	0.03	0.100	ug/L	
SLE0204-CCBG	Cadmium-114	0.00	0.04	0.100	ug/L	
SLE0204-CCBG	Copper-63	-0.00500	0.173	0.500	ug/L	
SLE0204-CCBG	Copper-65	-0.00400	0.35	0.500	ug/L	
SLE0204-CCBG	Zinc-66	-0.0680	2.92	6.00	ug/L	
SLE0204-CCBG	Zinc-67	-0.0590	0.94	6.00	ug/L	
SLE0204-IBLG	Arsenic-75a	-0.00700	0.0373	0.200	ug/L	
SLE0204-IBLG	Cadmium-111	0.00100	0.03	0.100	ug/L	
SLE0204-IBLG	Cadmium-114	0.00200	0.04	0.100	ug/L	
SLE0204-IBLG	Copper-63	-0.00400	0.173	0.500	ug/L	
SLE0204-IBLG	Copper-65	-0.00200	0.35	0.500	ug/L	
SLE0204-IBLG	Zinc-66	-0.0550	2.92	6.00	ug/L	
SLE0204-IBLG	Zinc-67	-0.0180	0.94	6.00	ug/L	
SLE0204-CCBH	Arsenic-75a	0.00600	0.0373	0.200	ug/L	
SLE0204-CCBH	Cadmium-111	-0.00300	0.03	0.100	ug/L	
SLE0204-CCBH	Cadmium-114	0.00200	0.04	0.100	ug/L	
SLE0204-CCBH	Copper-63	-0.00400	0.173	0.500	ug/L	
SLE0204-CCBH	Copper-65	-0.00300	0.35	0.500	ug/L	
SLE0204-CCBH	Zinc-66	-0.0510	2.92	6.00	ug/L	
SLE0204-CCBH	Zinc-67	-0.0820	0.94	6.00	ug/L	
SLE0204-IBLH	Arsenic-75a	-0.00400	0.0373	0.200	ug/L	
SLE0204-IBLH	Cadmium-111	-0.00300	0.03	0.100	ug/L	
SLE0204-IBLH	Cadmium-114	-0.00100	0.04	0.100	ug/L	
SLE0204-IBLH	Copper-63	-0.00500	0.173	0.500	ug/L	
SLE0204-IBLH	Copper-65	-0.00100	0.35	0.500	ug/L	
SLE0204-IBLH	Zinc-66	-0.0600	2.92	6.00	ug/L	
SLE0204-IBLH	Zinc-67	-0.0820	0.94	6.00	ug/L	
SLE0204-CCBI	Arsenic-75a	0.00200	0.0373	0.200	ug/L	
SLE0204-CCBI	Cadmium-111	0.00400	0.03	0.100	ug/L	
SLE0204-CCBI	Cadmium-114	0.00200	0.04	0.100	ug/L	
SLE0204-CCBI	Copper-63	-0.00500	0.173	0.500	ug/L	
SLE0204-CCBI	Copper-65	-0.00300	0.35	0.500	ug/L	
SLE0204-CCBI	Zinc-66	-0.0640	2.92	6.00	ug/L	

INSTRUMENT BLANKS
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: ICPMS1
Sequence: SLE0204

SDG: 23C0071
Project: AOC5 MR Phase 1
Calibration: GE00040
Date Analyzed: 05/11/23 06:42

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLE0204-CCBI	Zinc-67	-0.0510	0.94	6.00	ug/L	
SLE0204-IBLI	Arsenic-75a	-0.00500	0.0373	0.200	ug/L	
SLE0204-IBLI	Cadmium-111	0.00300	0.03	0.100	ug/L	
SLE0204-IBLI	Cadmium-114	0.00	0.04	0.100	ug/L	
SLE0204-IBLI	Copper-63	-0.00500	0.173	0.500	ug/L	
SLE0204-IBLI	Copper-65	-0.00500	0.35	0.500	ug/L	
SLE0204-IBLI	Zinc-66	-0.0540	2.92	6.00	ug/L	
SLE0204-IBLI	Zinc-67	-0.0640	0.94	6.00	ug/L	
SLE0204-IBLJ	Arsenic-75a	-0.00700	0.0373	0.200	ug/L	
SLE0204-IBLJ	Cadmium-111	0.00200	0.03	0.100	ug/L	
SLE0204-IBLJ	Cadmium-114	-0.00100	0.04	0.100	ug/L	
SLE0204-IBLJ	Copper-63	-0.00600	0.173	0.500	ug/L	
SLE0204-IBLJ	Copper-65	-0.00300	0.35	0.500	ug/L	
SLE0204-IBLJ	Zinc-66	-0.0490	2.92	6.00	ug/L	
SLE0204-IBLJ	Zinc-67	-0.0310	0.94	6.00	ug/L	
SLE0204-CCBJ	Arsenic-75a	0.00700	0.0373	0.200	ug/L	
SLE0204-CCBJ	Cadmium-111	0.00300	0.03	0.100	ug/L	
SLE0204-CCBJ	Cadmium-114	0.00	0.04	0.100	ug/L	
SLE0204-CCBJ	Copper-63	0.00800	0.173	0.500	ug/L	
SLE0204-CCBJ	Copper-65	0.0120	0.35	0.500	ug/L	
SLE0204-CCBJ	Zinc-66	-0.0420	2.92	6.00	ug/L	
SLE0204-CCBJ	Zinc-67	-0.0330	0.94	6.00	ug/L	

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLE0017
Instrument: ICPMS1
Calibration: GE00007

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
CAL 0	SLE0017-CAL1	XDT_m1230501-013	NA	05/01/23 15:09
CAL 1 - LOW CHECK	SLE0017-CAL2	XDT_m1230501-014	NA	05/01/23 15:14
CAL 2	SLE0017-CAL3	XDT_m1230501-015	NA	05/01/23 15:19
CAL 3	SLE0017-CAL4	XDT_m1230501-016	NA	05/01/23 15:24
CAL 4	SLE0017-CAL5	XDT_m1230501-017	NA	05/01/23 15:29
CAL 5	SLE0017-CAL6	XDT_m1230501-018	NA	05/01/23 15:36
RINSE	SLE0017-IBL1	XDT_m1230501-019	NA	05/01/23 15:43
Initial Cal Check	SLE0017-ICV1	XDT_m1230501-021	NA	05/01/23 15:49
Initial Cal Blank	SLE0017-ICB1	XDT_m1230501-022	NA	05/01/23 15:57
Calibration Check	SLE0017-CCV1	XDT_m1230501-023	NA	05/01/23 16:02
Calibration Blank	SLE0017-CCB1	XDT_m1230501-024	NA	05/01/23 16:09
Instrument RL Check	SLE0017-CRL1	XDT_m1230501-027	NA	05/01/23 16:29
Interference Check A	SLE0017-IFA1	XDT_m1230501-028	NA	05/01/23 16:34
Interference Check B	SLE0017-IFB1	XDT_m1230501-029	NA	05/01/23 16:38
LR200	SLE0017-HCV1	XDT_m1230501-030	NA	05/01/23 16:43
LR300	SLE0017-HCV2	XDT_m1230501-031	NA	05/01/23 16:48
Instrument Blank	SLE0017-IBL2	XDT_m1230501-032	NA	05/01/23 16:55
Calibration Check	SLE0017-CCV2	XDT_m1230501-033	NA	05/01/23 17:02
Calibration Blank	SLE0017-CCB2	XDT_m1230501-034	NA	05/01/23 17:09
Instrument Blank	SLE0017-IBL3	XDT_m1230501-044	NA	05/01/23 18:00
Calibration Check	SLE0017-CCV3	XDT_m1230501-045	NA	05/01/23 18:05
Calibration Blank	SLE0017-CCB3	XDT_m1230501-046	NA	05/01/23 18:12
Instrument Blank	SLE0017-IBL4	XDT_m1230501-056	NA	05/01/23 19:03
Calibration Check	SLE0017-CCV4	XDT_m1230501-057	NA	05/01/23 19:08
Calibration Blank	SLE0017-CCB4	XDT_m1230501-058	NA	05/01/23 19:15
ZZZZZ	23D0525-11	XDT_m1230501_PRE-067	Water	05/01/23 20:04
Instrument Blank	SLE0017-IBL5	XDT_m1230501-068	NA	05/01/23 20:09
Calibration Check	SLE0017-CCV5	XDT_m1230501-069	NA	05/01/23 20:13
Calibration Blank	SLE0017-CCB5	XDT_m1230501-070	NA	05/01/23 20:21

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLE0017
SDG: 23C0071
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GE00007

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Calibration Check	SLE0017-CCV6	XDT_m1230501-073	NA	05/01/23 20:42
Calibration Blank	SLE0017-CCB6	XDT_m1230501-074	NA	05/01/23 20:49
Instrument Blank	SLE0017-IBL6	XDT_m1230501-078	NA	05/01/23 21:14
Instrument Blank	SLE0017-IBL7	XDT_m1230501-084	NA	05/01/23 21:44
Calibration Check	SLE0017-CCV7	XDT_m1230501-085	NA	05/01/23 21:49
Calibration Blank	SLE0017-CCB7	XDT_m1230501-086	NA	05/01/23 21:56
Instrument Blank	SLE0017-IBL8	XDT_m1230501-096	NA	05/01/23 22:43
Calibration Check	SLE0017-CCV8	XDT_m1230501-097	NA	05/01/23 22:48
Calibration Blank	SLE0017-CCB8	XDT_m1230501-098	NA	05/01/23 22:55
Instrument Blank	SLE0017-IBL9	XDT_m1230501-108	NA	05/01/23 23:42
Calibration Check	SLE0017-CCV9	XDT_m1230501-109	NA	05/01/23 23:47
Calibration Blank	SLE0017-CCB9	XDT_m1230501-110	NA	05/01/23 23:54
Instrument Blank	SLE0017-IBLA	XDT_m1230501-120	NA	05/02/23 00:44
Calibration Check	SLE0017-CCVA	XDT_m1230501-121	NA	05/02/23 00:49
Calibration Blank	SLE0017-CCBA	XDT_m1230501-122	NA	05/02/23 00:56
Calibration Check	SLE0017-CCVB	XDT_m1230501-124	NA	05/02/23 01:05
Calibration Blank	SLE0017-CCBB	XDT_m1230501-125	NA	05/02/23 01:12
Instrument Blank	SLE0017-IBLB	XDT_m1230501-135	NA	05/02/23 02:03
Calibration Check	SLE0017-CCVC	XDT_m1230501-136	NA	05/02/23 02:07
Calibration Blank	SLE0017-CCBC	XDT_m1230501-137	NA	05/02/23 02:15
Instrument Blank	SLE0017-IBLC	XDT_m1230501-147	NA	05/02/23 03:05
Calibration Check	SLE0017-CCVD	XDT_m1230501-148	NA	05/02/23 03:10
Calibration Blank	SLE0017-CCBD	XDT_m1230501-149	NA	05/02/23 03:17
ZZZZZ	BLD0396-BLK1	XDT_m1230501-150	Solid	05/02/23 03:21
ZZZZZ	BLD0396-BS1	XDT_m1230501-151	Solid	05/02/23 03:26
Instrument Blank	SLE0017-IBLD	XDT_m1230501-159	NA	05/02/23 04:04
Calibration Check	SLE0017-CCVE	XDT_m1230501-160	NA	05/02/23 04:08
Calibration Blank	SLE0017-CCBE	XDT_m1230501-161	NA	05/02/23 04:16
Blank	BLD0452-BLK1	XDT_m1230501-162	Solid	05/02/23 04:20

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLE0017
SDG: 23C0071
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GE00007

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
LCS	BLD0452-BS1	XDT_m1230501-163	Solid	05/02/23 04:25
Instrument Blank	SLE0017-IBLE	XDT_m1230501-167	NA	05/02/23 04:45
Instrument Blank	SLE0017-IBLF	XDT_m1230501-171	NA	05/02/23 05:04
Calibration Check	SLE0017-CCVF	XDT_m1230501-172	NA	05/02/23 05:08
Calibration Blank	SLE0017-CCBF	XDT_m1230501-173	NA	05/02/23 05:16
Calibration Check	SLE0017-CCVG	XDT_m1230501-175	NA	05/02/23 05:25
Calibration Blank	SLE0017-CCBG	XDT_m1230501-176	NA	05/02/23 05:32
ZZZZZ	BLD0504-BLK1	XDT_m1230501-177	Solid	05/02/23 05:36
ZZZZZ	BLD0504-BS1	XDT_m1230501-178	Solid	05/02/23 05:41
Instrument Blank	SLE0017-IBLG	XDT_m1230501-182	NA	05/02/23 06:01
Instrument Blank	SLE0017-IBLH	XDT_m1230501-186	NA	05/02/23 06:20
Calibration Check	SLE0017-CCVH	XDT_m1230501-187	NA	05/02/23 06:24
Calibration Blank	SLE0017-CCBH	XDT_m1230501-188	NA	05/02/23 06:32
Instrument Blank	SLE0017-IBLI	XDT_m1230501-192	NA	05/02/23 06:50
ZZZZZ	23A0417-01	XDT_m1230501-193	Solid	05/02/23 06:55
ZZZZZ	23A0417-01	XDT_m1230501-193	Solid	05/02/23 06:55
ZZZZZ	23A0417-01	XDT_m1230501-193	Solid	05/02/23 06:55
ZZZZZ	23A0417-01	XDT_m1230501-193	Solid	05/02/23 06:55
ZZZZZ	BLD0396-DUP1	XDT_m1230501-194	Solid	05/02/23 06:59
ZZZZZ	BLD0396-MS1	XDT_m1230501-195	Solid	05/02/23 07:04
ZZZZZ	BLD0396-MSD1	XDT_m1230501-196	Solid	05/02/23 07:09
Instrument Blank	SLE0017-IBLJ	XDT_m1230501-198	NA	05/02/23 07:18
Calibration Check	SLE0017-CCVI	XDT_m1230501-199	NA	05/02/23 07:22
Calibration Blank	SLE0017-CCBI	XDT_m1230501-200	NA	05/02/23 07:29
Instrument Blank	SLE0017-IBLK	XDT_m1230501-204	NA	05/02/23 07:48
ZZZZZ	23A0419-01	XDT_m1230501-205	Solid	05/02/23 07:53
ZZZZZ	23A0419-01	XDT_m1230501-205	Solid	05/02/23 07:53
ZZZZZ	23A0419-01	XDT_m1230501-205	Solid	05/02/23 07:53
Instrument Blank	SLE0017-IBLL	XDT_m1230501-210	NA	05/02/23 08:15

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLE0017

SDG: 23C0071
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GE00007

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Calibration Check	SLE0017-CCVJ	XDT_m1230501-211	NA	05/02/23 08:20
Calibration Blank	SLE0017-CCBJ	XDT_m1230501-212	NA	05/02/23 08:27
Instrument Blank	SLE0017-IBLM	XDT_m1230501-216	NA	05/02/23 08:46
ZZZZZ	23A0455-01	XDT_m1230501-217	Solid	05/02/23 08:50
ZZZZZ	23A0455-01	XDT_m1230501-217	Solid	05/02/23 08:50
ZZZZZ	23A0455-01	XDT_m1230501-217	Solid	05/02/23 08:50
ZZZZZ	23A0455-01	XDT_m1230501-217	Solid	05/02/23 08:50
ZZZZZ	BLD0504-DUP1	XDT_m1230501-218	Solid	05/02/23 08:55
ZZZZZ	BLD0504-MS1	XDT_m1230501-219	Solid	05/02/23 08:59
ZZZZZ	BLD0504-MSD1	XDT_m1230501-220	Solid	05/02/23 09:04
Instrument Blank	SLE0017-IBLN	XDT_m1230501-222	NA	05/02/23 09:13
Calibration Check	SLE0017-CCVK	XDT_m1230501-223	NA	05/02/23 09:18
Calibration Blank	SLE0017-CCBK	XDT_m1230501-224	NA	05/02/23 09:25
Instrument Blank	SLE0017-IBLO	XDT_m1230501-234	NA	05/02/23 10:11
Calibration Check	SLE0017-CCVL	XDT_m1230501-235	NA	05/02/23 10:15
Calibration Blank	SLE0017-CCBL	XDT_m1230501-236	NA	05/02/23 10:22

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLE0043
Instrument: ICPMS1
Calibration: GE00013

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
CAL 0	SLE0043-CAL1	XDT_m1230502-013	NA	05/02/23 13:47
CAL 1 - LOW CHECK	SLE0043-CAL2	XDT_m1230502-014	NA	05/02/23 13:52
CAL 2	SLE0043-CAL3	XDT_m1230502-015	NA	05/02/23 13:56
CAL 3	SLE0043-CAL4	XDT_m1230502-016	NA	05/02/23 14:01
CAL 4	SLE0043-CAL5	XDT_m1230502-017	NA	05/02/23 14:06
CAL 5	SLE0043-CAL6	XDT_m1230502-018	NA	05/02/23 14:12
RINSE	SLE0043-IBL1	XDT_m1230502-019	NA	05/02/23 14:19
Initial Cal Check	SLE0043-ICV1	XDT_m1230502-021	NA	05/02/23 14:30
Initial Cal Blank	SLE0043-ICB1	XDT_m1230502-022	NA	05/02/23 14:37
Calibration Check	SLE0043-CCV1	XDT_m1230502-023	NA	05/02/23 14:42
Calibration Blank	SLE0043-CCB1	XDT_m1230502-024	NA	05/02/23 14:49
Instrument RL Check	SLE0043-CRL1	XDT_m1230502-026	NA	05/02/23 15:04
Interference Check A	SLE0043-IFA1	XDT_m1230502-027	NA	05/02/23 15:08
Interference Check B	SLE0043-IFB1	XDT_m1230502-028	NA	05/02/23 15:13
LR200	SLE0043-HCV1	XDT_m1230502-029	NA	05/02/23 15:18
LR300	SLE0043-HCV2	XDT_m1230502-030	NA	05/02/23 15:22
Instrument Blank	SLE0043-IBL2	XDT_m1230502-031	NA	05/02/23 15:31
Instrument Blank	SLE0043-IBL3	XDT_m1230502-032	NA	05/02/23 15:37
Calibration Check	SLE0043-CCV2	XDT_m1230502-034	NA	05/02/23 15:50
Calibration Blank	SLE0043-CCB2	XDT_m1230502-035	NA	05/02/23 15:57
ZZZZZ	BLE0054-BLK1	XDT_m1230502-038	Water	05/02/23 16:12
ZZZZZ	BLE0054-BS1	XDT_m1230502-040	Water	05/02/23 16:23
Instrument Blank	SLE0043-IBL4	XDT_m1230502-044	NA	05/02/23 16:49
Calibration Check	SLE0043-CCV3	XDT_m1230502-045	NA	05/02/23 16:54
Calibration Blank	SLE0043-CCB3	XDT_m1230502-046	NA	05/02/23 17:01
Calibration Check	SLE0043-CCV4	XDT_m1230502-048	NA	05/02/23 17:11
Calibration Blank	SLE0043-CCB4	XDT_m1230502-049	NA	05/02/23 17:18
ZZZZZ	23A0417-02	XDT_m1230502-050	Solid	05/02/23 17:24
ZZZZZ	23A0417-02	XDT_m1230502-050	Solid	05/02/23 17:24

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLE0043
Instrument: ICPMS1
Calibration: GE00013

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	23A0417-02	XDT_m1230502-050	Solid	05/02/23 17:24
ZZZZZ	23A0417-02	XDT_m1230502-050	Solid	05/02/23 17:24
ZZZZZ	23A0417-03	XDT_m1230502-051	Solid	05/02/23 17:28
ZZZZZ	23A0417-03	XDT_m1230502-051	Solid	05/02/23 17:28
ZZZZZ	23A0417-03	XDT_m1230502-051	Solid	05/02/23 17:28
ZZZZZ	23A0417-03	XDT_m1230502-051	Solid	05/02/23 17:28
ZZZZZ	23A0417-04	XDT_m1230502-052	Solid	05/02/23 17:32
ZZZZZ	23A0417-04	XDT_m1230502-052	Solid	05/02/23 17:32
ZZZZZ	23A0417-04	XDT_m1230502-052	Solid	05/02/23 17:32
ZZZZZ	23A0417-04	XDT_m1230502-052	Solid	05/02/23 17:32
ZZZZZ	23A0417-05	XDT_m1230502-053	Solid	05/02/23 17:37
ZZZZZ	23A0417-05	XDT_m1230502-053	Solid	05/02/23 17:37
ZZZZZ	23A0417-05	XDT_m1230502-053	Solid	05/02/23 17:37
ZZZZZ	23A0417-05	XDT_m1230502-053	Solid	05/02/23 17:37
ZZZZZ	23A0417-06	XDT_m1230502-054	Solid	05/02/23 17:41
ZZZZZ	23A0417-06	XDT_m1230502-054	Solid	05/02/23 17:41
ZZZZZ	23A0417-06	XDT_m1230502-054	Solid	05/02/23 17:41
ZZZZZ	23A0417-06	XDT_m1230502-054	Solid	05/02/23 17:41
ZZZZZ	23A0417-07	XDT_m1230502-055	Solid	05/02/23 17:46
ZZZZZ	23A0417-07	XDT_m1230502-055	Solid	05/02/23 17:46
ZZZZZ	23A0417-07	XDT_m1230502-055	Solid	05/02/23 17:46
ZZZZZ	23A0417-07	XDT_m1230502-055	Solid	05/02/23 17:46
ZZZZZ	23A0417-08	XDT_m1230502-056	Solid	05/02/23 17:50
ZZZZZ	23A0417-08	XDT_m1230502-056	Solid	05/02/23 17:50
ZZZZZ	23A0417-08	XDT_m1230502-056	Solid	05/02/23 17:50
ZZZZZ	23A0417-09	XDT_m1230502-057	Solid	05/02/23 17:55
ZZZZZ	23A0417-09	XDT_m1230502-057	Solid	05/02/23 17:55
ZZZZZ	23A0417-09	XDT_m1230502-057	Solid	05/02/23 17:55
ZZZZZ	23A0417-09	XDT_m1230502-057	Solid	05/02/23 17:55

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLE0043
SDG: 23C0071
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GE00013

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	23A0417-10	XDT_m1230502-058	Solid	05/02/23 17:59
ZZZZZ	23A0417-10	XDT_m1230502-058	Solid	05/02/23 17:59
ZZZZZ	23A0417-10	XDT_m1230502-058	Solid	05/02/23 17:59
ZZZZZ	23A0417-10	XDT_m1230502-058	Solid	05/02/23 17:59
ZZZZZ	23A0417-11	XDT_m1230502-059	Solid	05/02/23 18:03
ZZZZZ	23A0417-11	XDT_m1230502-059	Solid	05/02/23 18:03
ZZZZZ	23A0417-11	XDT_m1230502-059	Solid	05/02/23 18:03
ZZZZZ	23A0417-11	XDT_m1230502-059	Solid	05/02/23 18:03
Calibration Check	SLE0043-CCV5	XDT_m1230502-060	NA	05/02/23 18:09
Calibration Blank	SLE0043-CCB5	XDT_m1230502-061	NA	05/02/23 18:16
ZZZZZ	23A0417-12	XDT_m1230502-062	Solid	05/02/23 18:24
ZZZZZ	23A0417-12	XDT_m1230502-062	Solid	05/02/23 18:24
ZZZZZ	23A0417-12	XDT_m1230502-062	Solid	05/02/23 18:24
ZZZZZ	23A0417-12	XDT_m1230502-062	Solid	05/02/23 18:24
ZZZZZ	23A0417-13	XDT_m1230502-063	Solid	05/02/23 18:28
ZZZZZ	23A0417-13	XDT_m1230502-063	Solid	05/02/23 18:28
ZZZZZ	23A0417-13	XDT_m1230502-063	Solid	05/02/23 18:28
ZZZZZ	23A0417-13	XDT_m1230502-063	Solid	05/02/23 18:28
ZZZZZ	23A0417-14	XDT_m1230502-064	Solid	05/02/23 18:33
ZZZZZ	23A0417-14	XDT_m1230502-064	Solid	05/02/23 18:33
ZZZZZ	23A0417-14	XDT_m1230502-064	Solid	05/02/23 18:33
ZZZZZ	23A0417-14	XDT_m1230502-064	Solid	05/02/23 18:33
ZZZZZ	23A0417-15	XDT_m1230502-065	Solid	05/02/23 18:37
ZZZZZ	23A0417-15	XDT_m1230502-065	Solid	05/02/23 18:37
ZZZZZ	23A0417-15	XDT_m1230502-065	Solid	05/02/23 18:37
ZZZZZ	23A0417-15	XDT_m1230502-065	Solid	05/02/23 18:37
ZZZZZ	23A0420-01	XDT_m1230502-066	Solid	05/02/23 18:42
ZZZZZ	23A0420-01	XDT_m1230502-066	Solid	05/02/23 18:42
ZZZZZ	23A0420-01	XDT_m1230502-066	Solid	05/02/23 18:42

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLE0043
Instrument: ICPMS1
Calibration: GE00013

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	23A0420-01	XDT_m1230502-066	Solid	05/02/23 18:42
ZZZZZ	23A0420-07	XDT_m1230502-067	Solid	05/02/23 18:46
ZZZZZ	23A0420-07	XDT_m1230502-067	Solid	05/02/23 18:46
ZZZZZ	23A0420-07	XDT_m1230502-067	Solid	05/02/23 18:46
ZZZZZ	23A0420-07	XDT_m1230502-067	Solid	05/02/23 18:46
ZZZZZ	23A0420-08	XDT_m1230502-068	Solid	05/02/23 18:50
ZZZZZ	23A0420-08	XDT_m1230502-068	Solid	05/02/23 18:50
ZZZZZ	23A0420-08	XDT_m1230502-068	Solid	05/02/23 18:50
ZZZZZ	23A0420-08	XDT_m1230502-068	Solid	05/02/23 18:50
ZZZZZ	23A0420-09	XDT_m1230502-069	Solid	05/02/23 18:55
ZZZZZ	23A0420-09	XDT_m1230502-069	Solid	05/02/23 18:55
ZZZZZ	23A0420-09	XDT_m1230502-069	Solid	05/02/23 18:55
ZZZZZ	23A0420-09	XDT_m1230502-069	Solid	05/02/23 18:55
ZZZZZ	23A0419-02	XDT_m1230502-070	Solid	05/02/23 18:59
ZZZZZ	23A0419-02	XDT_m1230502-070	Solid	05/02/23 18:59
ZZZZZ	23A0419-02	XDT_m1230502-070	Solid	05/02/23 18:59
ZZZZZ	23A0419-02	XDT_m1230502-070	Solid	05/02/23 18:59
ZZZZZ	23A0419-03	XDT_m1230502-071	Solid	05/02/23 19:04
ZZZZZ	23A0419-03	XDT_m1230502-071	Solid	05/02/23 19:04
ZZZZZ	23A0419-03	XDT_m1230502-071	Solid	05/02/23 19:04
ZZZZZ	23A0419-03	XDT_m1230502-071	Solid	05/02/23 19:04
Calibration Check	SLE0043-CCV6	XDT_m1230502-072	NA	05/02/23 19:09
Calibration Blank	SLE0043-CCB6	XDT_m1230502-073	NA	05/02/23 19:16
ZZZZZ	23A0419-01	XDT_m1230502-074	Solid	05/02/23 19:21
ZZZZZ	23A0420-04	XDT_m1230502-079	Solid	05/02/23 19:43
ZZZZZ	23A0419-04	XDT_m1230502-080	Solid	05/02/23 19:47
ZZZZZ	23A0419-04	XDT_m1230502-080	Solid	05/02/23 19:47
ZZZZZ	23A0419-04	XDT_m1230502-080	Solid	05/02/23 19:47
ZZZZZ	23A0419-04	XDT_m1230502-080	Solid	05/02/23 19:47

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLE0043

SDG: 23C0071
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GE00013

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	23A0419-05	XDT_m1230502-081	Solid	05/02/23 19:52
ZZZZZ	23A0419-05	XDT_m1230502-081	Solid	05/02/23 19:52
ZZZZZ	23A0419-05	XDT_m1230502-081	Solid	05/02/23 19:52
ZZZZZ	23A0419-05	XDT_m1230502-081	Solid	05/02/23 19:52
ZZZZZ	23A0419-06	XDT_m1230502-082	Solid	05/02/23 19:56
ZZZZZ	23A0419-06	XDT_m1230502-082	Solid	05/02/23 19:56
ZZZZZ	23A0419-06	XDT_m1230502-082	Solid	05/02/23 19:56
ZZZZZ	23A0419-06	XDT_m1230502-082	Solid	05/02/23 19:56
ZZZZZ	23A0419-07	XDT_m1230502-083	Solid	05/02/23 20:00
ZZZZZ	23A0419-07	XDT_m1230502-083	Solid	05/02/23 20:00
ZZZZZ	23A0419-07	XDT_m1230502-083	Solid	05/02/23 20:00
ZZZZZ	23A0419-07	XDT_m1230502-083	Solid	05/02/23 20:00
Calibration Check	SLE0043-CCV7	XDT_m1230502-084	NA	05/02/23 20:06
Calibration Blank	SLE0043-CCB7	XDT_m1230502-085	NA	05/02/23 20:13
ZZZZZ	23A0419-08	XDT_m1230502-086	Solid	05/02/23 20:18
ZZZZZ	23A0419-08	XDT_m1230502-086	Solid	05/02/23 20:18
ZZZZZ	23A0419-08	XDT_m1230502-086	Solid	05/02/23 20:18
ZZZZZ	23A0419-08	XDT_m1230502-086	Solid	05/02/23 20:18
ZZZZZ	23A0419-09	XDT_m1230502-087	Solid	05/02/23 20:22
ZZZZZ	23A0419-09	XDT_m1230502-087	Solid	05/02/23 20:22
ZZZZZ	23A0419-09	XDT_m1230502-087	Solid	05/02/23 20:22
ZZZZZ	23A0419-09	XDT_m1230502-087	Solid	05/02/23 20:22
ZZZZZ	23A0419-10	XDT_m1230502-088	Solid	05/02/23 20:26
ZZZZZ	23A0419-10	XDT_m1230502-088	Solid	05/02/23 20:26
ZZZZZ	23A0419-10	XDT_m1230502-088	Solid	05/02/23 20:26
ZZZZZ	23A0419-10	XDT_m1230502-088	Solid	05/02/23 20:26
ZZZZZ	23A0419-11	XDT_m1230502-089	Solid	05/02/23 20:31
ZZZZZ	23A0419-11	XDT_m1230502-089	Solid	05/02/23 20:31
ZZZZZ	23A0419-11	XDT_m1230502-089	Solid	05/02/23 20:31

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLE0043
Instrument: ICPMS1
Calibration: GE00013

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	23A0419-11	XDT_m1230502-089	Solid	05/02/23 20:31
ZZZZZ	23A0419-12	XDT_m1230502-090	Solid	05/02/23 20:35
ZZZZZ	23A0419-12	XDT_m1230502-090	Solid	05/02/23 20:35
ZZZZZ	23A0419-12	XDT_m1230502-090	Solid	05/02/23 20:35
ZZZZZ	23A0419-12	XDT_m1230502-090	Solid	05/02/23 20:35
ZZZZZ	23C0752-01	XDT_m1230502-091	Solid	05/02/23 20:40
ZZZZZ	23C0752-01	XDT_m1230502-091	Solid	05/02/23 20:40
ZZZZZ	23C0752-01	XDT_m1230502-091	Solid	05/02/23 20:40
ZZZZZ	23C0752-01	XDT_m1230502-091	Solid	05/02/23 20:40
ZZZZZ	23C0752-02	XDT_m1230502-092	Solid	05/02/23 20:44
ZZZZZ	23C0752-02	XDT_m1230502-092	Solid	05/02/23 20:44
ZZZZZ	23C0752-02	XDT_m1230502-092	Solid	05/02/23 20:44
ZZZZZ	23C0752-02	XDT_m1230502-092	Solid	05/02/23 20:44
ZZZZZ	23C0752-03	XDT_m1230502-093	Solid	05/02/23 20:49
ZZZZZ	23C0752-03	XDT_m1230502-093	Solid	05/02/23 20:49
ZZZZZ	23C0752-03	XDT_m1230502-093	Solid	05/02/23 20:49
ZZZZZ	23C0752-03	XDT_m1230502-093	Solid	05/02/23 20:49
ZZZZZ	23C0752-04	XDT_m1230502-094	Solid	05/02/23 20:53
ZZZZZ	23C0752-04	XDT_m1230502-094	Solid	05/02/23 20:53
ZZZZZ	23C0752-04	XDT_m1230502-094	Solid	05/02/23 20:53
ZZZZZ	23C0752-04	XDT_m1230502-094	Solid	05/02/23 20:53
ZZZZZ	23C0752-06	XDT_m1230502-095	Solid	05/02/23 20:58
ZZZZZ	23C0752-06	XDT_m1230502-095	Solid	05/02/23 20:58
ZZZZZ	23C0752-06	XDT_m1230502-095	Solid	05/02/23 20:58
ZZZZZ	23C0752-06	XDT_m1230502-095	Solid	05/02/23 20:58
Calibration Check	SLE0043-CCV8	XDT_m1230502-096	NA	05/02/23 21:03
Calibration Blank	SLE0043-CCB8	XDT_m1230502-097	NA	05/02/23 21:10
ZZZZZ	23A0455-02	XDT_m1230502-098	Solid	05/02/23 21:15
ZZZZZ	23A0455-03	XDT_m1230502-099	Solid	05/02/23 21:19

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLE0043
SDG: 23C0071
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GE00013

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	23A0455-04	XDT_m1230502-100	Solid	05/02/23 21:24
ZZZZZ	23A0455-05	XDT_m1230502-101	Solid	05/02/23 21:28
ZZZZZ	23A0455-06	XDT_m1230502-102	Solid	05/02/23 21:32
ZZZZZ	23A0455-07	XDT_m1230502-103	Solid	05/02/23 21:37
ZZZZZ	23A0455-08	XDT_m1230502-104	Solid	05/02/23 21:41
ZZZZZ	23A0455-10	XDT_m1230502-106	Solid	05/02/23 21:50
ZZZZZ	23A0455-11	XDT_m1230502-107	Solid	05/02/23 21:55
Calibration Check	SLE0043-CCV9	XDT_m1230502-108	NA	05/02/23 22:00
Calibration Blank	SLE0043-CCB9	XDT_m1230502-109	NA	05/02/23 22:07
Calibration Check	SLE0043-CCVA	XDT_m1230502-111	NA	05/02/23 22:16
Calibration Blank	SLE0043-CCBA	XDT_m1230502-112	NA	05/02/23 22:23
ZZZZZ	23A0455-12	XDT_m1230502-113	Solid	05/02/23 22:28
ZZZZZ	23A0455-12	XDT_m1230502-113	Solid	05/02/23 22:28
ZZZZZ	23A0455-12	XDT_m1230502-113	Solid	05/02/23 22:28
ZZZZZ	23A0455-12	XDT_m1230502-113	Solid	05/02/23 22:28
ZZZZZ	23A0455-13	XDT_m1230502-114	Solid	05/02/23 22:32
ZZZZZ	23A0455-13	XDT_m1230502-114	Solid	05/02/23 22:32
ZZZZZ	23A0455-13	XDT_m1230502-114	Solid	05/02/23 22:32
ZZZZZ	23A0455-13	XDT_m1230502-114	Solid	05/02/23 22:32
ZZZZZ	23A0455-14	XDT_m1230502-115	Solid	05/02/23 22:37
ZZZZZ	23A0455-14	XDT_m1230502-115	Solid	05/02/23 22:37
ZZZZZ	23A0455-14	XDT_m1230502-115	Solid	05/02/23 22:37
ZZZZZ	23A0455-14	XDT_m1230502-115	Solid	05/02/23 22:37
ZZZZZ	23A0455-15	XDT_m1230502-116	Solid	05/02/23 22:41
ZZZZZ	23A0455-16	XDT_m1230502-117	Solid	05/02/23 22:45
ZZZZZ	23A0455-16	XDT_m1230502-117	Solid	05/02/23 22:45
ZZZZZ	23A0455-16	XDT_m1230502-117	Solid	05/02/23 22:45
ZZZZZ	23A0455-16	XDT_m1230502-117	Solid	05/02/23 22:45
ZZZZZ	23A0455-17	XDT_m1230502-118	Solid	05/02/23 22:50

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLE0043
SDG: 23C0071
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GE00013

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	23A0455-17	XDT_m1230502-118	Solid	05/02/23 22:50
ZZZZZ	23A0455-17	XDT_m1230502-118	Solid	05/02/23 22:50
ZZZZZ	23A0455-17	XDT_m1230502-118	Solid	05/02/23 22:50
ZZZZZ	23A0455-18	XDT_m1230502-119	Solid	05/02/23 22:54
ZZZZZ	23A0455-18	XDT_m1230502-119	Solid	05/02/23 22:54
ZZZZZ	23A0455-18	XDT_m1230502-119	Solid	05/02/23 22:54
ZZZZZ	23A0455-18	XDT_m1230502-119	Solid	05/02/23 22:54
Instrument Blank	SLE0043-IBL5	XDT_m1230502-122	NA	05/02/23 23:07
Calibration Check	SLE0043-CCVB	XDT_m1230502-123	NA	05/02/23 23:12
Calibration Blank	SLE0043-CCBB	XDT_m1230502-124	NA	05/02/23 23:19
Instrument Blank	SLE0043-IBL6	XDT_m1230502-129	NA	05/02/23 23:43
Instrument Blank	SLE0043-IBL7	XDT_m1230502-134	NA	05/03/23 00:07
Calibration Check	SLE0043-CCVC	XDT_m1230502-135	NA	05/03/23 00:11
Calibration Blank	SLE0043-CCBC	XDT_m1230502-136	NA	05/03/23 00:18
ZZZZZ	23D0442-02	XDT_m1230502-142	Water	05/03/23 00:46
ZZZZZ	BLE0054-DUP1	XDT_m1230502-143	Water	05/03/23 00:50
ZZZZZ	BLE0054-MS1	XDT_m1230502-144	Water	05/03/23 00:55
ZZZZZ	BLE0054-MSD1	XDT_m1230502-145	Water	05/03/23 01:01
Instrument Blank	SLE0043-IBL8	XDT_m1230502-146	NA	05/03/23 01:06
Calibration Check	SLE0043-CCVD	XDT_m1230502-147	NA	05/03/23 01:10
Calibration Blank	SLE0043-CCBD	XDT_m1230502-148	NA	05/03/23 01:17
Instrument Blank	SLE0043-IBL9	XDT_m1230502-158	NA	05/03/23 01:56
Calibration Check	SLE0043-CCVE	XDT_m1230502-159	NA	05/03/23 02:00
Calibration Blank	SLE0043-CCBE	XDT_m1230502-160	NA	05/03/23 02:06
Calibration Check	SLE0043-CCVF	XDT_m1230502-162	NA	05/03/23 02:14
Calibration Blank	SLE0043-CCBF	XDT_m1230502-163	NA	05/03/23 02:20
Instrument Blank	SLE0043-IBLA	XDT_m1230502-173	NA	05/03/23 02:56
Calibration Check	SLE0043-CCVG	XDT_m1230502-174	NA	05/03/23 03:00
Calibration Blank	SLE0043-CCBG	XDT_m1230502-175	NA	05/03/23 03:06

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLE0043	Instrument:	ICPMS1
		Calibration:	GE00013

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Instrument Blank	SLE0043-IBLB	XDT_m1230502-185	NA	05/03/23 03:43
Calibration Check	SLE0043-CCVH	XDT_m1230502-186	NA	05/03/23 03:47
Calibration Blank	SLE0043-CCBH	XDT_m1230502-187	NA	05/03/23 03:53
Instrument Blank	SLE0043-IBLC	XDT_m1230502-197	NA	05/03/23 04:29
Calibration Check	SLE0043-CCVI	XDT_m1230502-198	NA	05/03/23 04:33
Calibration Blank	SLE0043-CCBI	XDT_m1230502-199	NA	05/03/23 04:39
Instrument Blank	SLE0043-IBLD	XDT_m1230502-209	NA	05/03/23 05:16
Calibration Check	SLE0043-CCVJ	XDT_m1230502-210	NA	05/03/23 05:21
Calibration Blank	SLE0043-CCBJ	XDT_m1230502-211	NA	05/03/23 05:27
Instrument Blank	SLE0043-IBLE	XDT_m1230502-221	NA	05/03/23 06:04
Calibration Check	SLE0043-CCVK	XDT_m1230502-222	NA	05/03/23 06:08
Calibration Blank	SLE0043-CCBK	XDT_m1230502-223	NA	05/03/23 06:12

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLE0071	Instrument:	ICPMS1
		Calibration:	GE00019

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
CAL 0	SLE0071-CAL1	XDT_m1230503-010	NA	05/03/23 13:32
CAL 1 - LOW CHECK	SLE0071-CAL2	XDT_m1230503-011	NA	05/03/23 13:37
CAL 2	SLE0071-CAL3	XDT_m1230503-012	NA	05/03/23 13:42
CAL 3	SLE0071-CAL4	XDT_m1230503-013	NA	05/03/23 13:47
CAL 4	SLE0071-CAL5	XDT_m1230503-014	NA	05/03/23 13:52
CAL 5	SLE0071-CAL6	XDT_m1230503-015	NA	05/03/23 13:59
RINSE	SLE0071-IBL1	XDT_m1230503-016	NA	05/03/23 14:07
Initial Cal Check	SLE0071-ICV1	XDT_m1230503-018	NA	05/03/23 14:14
Initial Cal Blank	SLE0071-ICB1	XDT_m1230503-019	NA	05/03/23 14:22
Calibration Check	SLE0071-CCV1	XDT_m1230503-020	NA	05/03/23 14:27
Calibration Blank	SLE0071-CCB1	XDT_m1230503-021	NA	05/03/23 14:34
Instrument RL Check	SLE0071-CRL1	XDT_m1230503-022	NA	05/03/23 14:43
Interference Check A	SLE0071-IFA1	XDT_m1230503-023	NA	05/03/23 14:51
Interference Check B	SLE0071-IFB1	XDT_m1230503-024	NA	05/03/23 14:56
LR200	SLE0071-HCV1	XDT_m1230503-025	NA	05/03/23 15:01
LR300	SLE0071-HCV2	XDT_m1230503-026	NA	05/03/23 15:06
Instrument Blank	SLE0071-IBL2	XDT_m1230503-027	NA	05/03/23 15:13
Instrument Blank	SLE0071-IBL3	XDT_m1230503-028	NA	05/03/23 15:27
Calibration Check	SLE0071-CCV2	XDT_m1230503-029	NA	05/03/23 15:33
Calibration Blank	SLE0071-CCB2	XDT_m1230503-030	NA	05/03/23 15:44
ZZZZZ	BLE0078-BLK1	XDT_m1230503-033	Water	05/03/23 16:02
ZZZZZ	BLE0078-BS1	XDT_m1230503-034	Water	05/03/23 16:07
Instrument Blank	SLE0071-IBL4	XDT_m1230503-040	NA	05/03/23 16:42
Calibration Check	SLE0071-CCV3	XDT_m1230503-041	NA	05/03/23 16:47
Calibration Blank	SLE0071-CCB3	XDT_m1230503-042	NA	05/03/23 16:55
Calibration Check	SLE0071-CCV4	XDT_m1230503-044	NA	05/03/23 17:08
Calibration Blank	SLE0071-CCB4	XDT_m1230503-045	NA	05/03/23 17:15
Instrument Blank	SLE0071-IBL5	XDT_m1230503-055	NA	05/03/23 18:09
Calibration Check	SLE0071-CCV5	XDT_m1230503-056	NA	05/03/23 18:14

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLE0071

SDG: 23C0071
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GE00019

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Calibration Blank	SLE0071-CCB5	XDT_m1230503-057	NA	05/03/23 18:22
Instrument Blank	SLE0071-IBL6	XDT_m1230503-067	NA	05/03/23 19:15
Calibration Check	SLE0071-CCV6	XDT_m1230503-068	NA	05/03/23 19:20
Calibration Blank	SLE0071-CCB6	XDT_m1230503-069	NA	05/03/23 19:27
Instrument Blank	SLE0071-IBL7	XDT_m1230503-075	NA	05/03/23 20:01
Instrument Blank	SLE0071-IBL8	XDT_m1230503-079	NA	05/03/23 20:21
Calibration Check	SLE0071-CCV7	XDT_m1230503-080	NA	05/03/23 20:26
Calibration Blank	SLE0071-CCB7	XDT_m1230503-081	NA	05/03/23 20:34
Calibration Check	SLE0071-CCV8	XDT_m1230503-083	NA	05/03/23 20:47
Calibration Blank	SLE0071-CCB8	XDT_m1230503-084	NA	05/03/23 20:53
Instrument Blank	SLE0071-IBL9	XDT_m1230503-094	NA	05/03/23 21:41
Calibration Check	SLE0071-CCV9	XDT_m1230503-095	NA	05/03/23 21:45
Calibration Blank	SLE0071-CCB9	XDT_m1230503-096	NA	05/03/23 21:51
Instrument Blank	SLE0071-IBLA	XDT_m1230503-106	NA	05/03/23 22:34
Calibration Check	SLE0071-CCVA	XDT_m1230503-107	NA	05/03/23 22:38
Calibration Blank	SLE0071-CCBA	XDT_m1230503-108	NA	05/03/23 22:45
Instrument Blank	SLE0071-IBLB	XDT_m1230503-113	NA	05/03/23 23:07
Instrument Blank	SLE0071-IBLC	XDT_m1230503-118	NA	05/03/23 23:29
Calibration Check	SLE0071-CCVB	XDT_m1230503-119	NA	05/03/23 23:33
Calibration Blank	SLE0071-CCBB	XDT_m1230503-120	NA	05/03/23 23:39
Instrument Blank	SLE0071-IBLD	XDT_m1230503-125	NA	05/03/23 23:57
Instrument Blank	SLE0071-IBLE	XDT_m1230503-130	NA	05/04/23 00:14
Calibration Check	SLE0071-CCVC	XDT_m1230503-131	NA	05/04/23 00:17
Calibration Blank	SLE0071-CCBC	XDT_m1230503-132	NA	05/04/23 00:23
Instrument Blank	SLE0071-IBLF	XDT_m1230503-137	NA	05/04/23 00:40
Instrument Blank	SLE0071-IBLG	XDT_m1230503-142	NA	05/04/23 00:55
Calibration Check	SLE0071-CCVD	XDT_m1230503-143	NA	05/04/23 00:58
Calibration Blank	SLE0071-CCBD	XDT_m1230503-144	NA	05/04/23 01:04
Calibration Check	SLE0071-CCVE	XDT_m1230503-146	NA	05/04/23 01:10

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLE0071
Instrument: ICPMS1
Calibration: GE00019

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Calibration Blank	SLE0071-CCBE	XDT_m1230503-147	NA	05/04/23 01:16
Instrument Blank	SLE0071-IBLH	XDT_m1230503-157	NA	05/04/23 01:46
Calibration Check	SLE0071-CCVF	XDT_m1230503-158	NA	05/04/23 01:49
Calibration Blank	SLE0071-CCBF	XDT_m1230503-159	NA	05/04/23 01:55
Instrument Blank	SLE0071-IBLI	XDT_m1230503-169	NA	05/04/23 02:25
Calibration Check	SLE0071-CCVG	XDT_m1230503-170	NA	05/04/23 02:28
Calibration Blank	SLE0071-CCBG	XDT_m1230503-171	NA	05/04/23 02:34
Calibration Check	SLE0071-CCVH	XDT_m1230503-182	NA	05/04/23 03:09
Calibration Blank	SLE0071-CCBH	XDT_m1230503-183	NA	05/04/23 03:15
ZZZZZ	23A0455-15	XDT_m1230503-192	Solid	05/04/23 03:42
ZZZZZ	23A0455-15	XDT_m1230503-192	Solid	05/04/23 03:42
ZZZZZ	23A0455-15	XDT_m1230503-192	Solid	05/04/23 03:42
Instrument Blank	SLE0071-IBLJ	XDT_m1230503-193	NA	05/04/23 03:45
Calibration Check	SLE0071-CCVI	XDT_m1230503-194	NA	05/04/23 03:48
Calibration Blank	SLE0071-CCBI	XDT_m1230503-195	NA	05/04/23 03:54
Calibration Check	SLE0071-CCVJ	XDT_m1230503-197	NA	05/04/23 04:00
Calibration Blank	SLE0071-CCBJ	XDT_m1230503-198	NA	05/04/23 04:06
ZZZZZ	23A0455-02	XDT_m1230503-199	Solid	05/04/23 04:09
ZZZZZ	23A0455-02	XDT_m1230503-199	Solid	05/04/23 04:09
ZZZZZ	23A0455-02	XDT_m1230503-199	Solid	05/04/23 04:09
ZZZZZ	23A0455-03	XDT_m1230503-200	Solid	05/04/23 04:12
ZZZZZ	23A0455-03	XDT_m1230503-200	Solid	05/04/23 04:12
ZZZZZ	23A0455-03	XDT_m1230503-200	Solid	05/04/23 04:12
ZZZZZ	23A0455-04	XDT_m1230503-201	Solid	05/04/23 04:15
ZZZZZ	23A0455-04	XDT_m1230503-201	Solid	05/04/23 04:15
ZZZZZ	23A0455-04	XDT_m1230503-201	Solid	05/04/23 04:15
ZZZZZ	23A0455-05	XDT_m1230503-202	Solid	05/04/23 04:18
ZZZZZ	23A0455-05	XDT_m1230503-202	Solid	05/04/23 04:18
ZZZZZ	23A0455-05	XDT_m1230503-202	Solid	05/04/23 04:18

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLE0071

SDG: 23C0071
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GE00019

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	23A0455-06	XDT_m1230503-203	Solid	05/04/23 04:21
ZZZZZ	23A0455-06	XDT_m1230503-203	Solid	05/04/23 04:21
ZZZZZ	23A0455-06	XDT_m1230503-203	Solid	05/04/23 04:21
ZZZZZ	23A0455-07	XDT_m1230503-204	Solid	05/04/23 04:24
ZZZZZ	23A0455-07	XDT_m1230503-204	Solid	05/04/23 04:24
ZZZZZ	23A0455-07	XDT_m1230503-204	Solid	05/04/23 04:24
ZZZZZ	23A0455-08	XDT_m1230503-205	Solid	05/04/23 04:27
ZZZZZ	23A0455-08	XDT_m1230503-205	Solid	05/04/23 04:27
ZZZZZ	23A0455-08	XDT_m1230503-205	Solid	05/04/23 04:27
ZZZZZ	23A0455-10	XDT_m1230503-206	Solid	05/04/23 04:30
ZZZZZ	23A0455-10	XDT_m1230503-206	Solid	05/04/23 04:30
ZZZZZ	23A0455-10	XDT_m1230503-206	Solid	05/04/23 04:30
ZZZZZ	23A0455-11	XDT_m1230503-207	Solid	05/04/23 04:34
ZZZZZ	23A0455-11	XDT_m1230503-207	Solid	05/04/23 04:34
ZZZZZ	23A0455-11	XDT_m1230503-207	Solid	05/04/23 04:34
Calibration Check	SLE0071-CCVK	XDT_m1230503-209	NA	05/04/23 04:41
Calibration Blank	SLE0071-CCBK	XDT_m1230503-210	NA	05/04/23 04:46
Instrument Blank	SLE0071-IBLK	XDT_m1230503-220	NA	05/04/23 05:17
Calibration Check	SLE0071-CCVL	XDT_m1230503-221	NA	05/04/23 05:20
Calibration Blank	SLE0071-CCBL	XDT_m1230503-222	NA	05/04/23 05:26
Instrument Blank	SLE0071-IBLL	XDT_m1230503-232	NA	05/04/23 05:57
Calibration Check	SLE0071-CCVM	XDT_m1230503-233	NA	05/04/23 06:00
Calibration Blank	SLE0071-CCBM	XDT_m1230503-234	NA	05/04/23 06:06
ZZZZZ	23D0514-05	XDT_m1230503-240	Water	05/04/23 06:24
ZZZZZ	BLE0078-DUP1	XDT_m1230503-241	Water	05/04/23 06:27
ZZZZZ	BLE0078-MS1	XDT_m1230503-242	Water	05/04/23 06:31
ZZZZZ	BLE0078-MSD1	XDT_m1230503-243	Water	05/04/23 06:35
Instrument Blank	SLE0071-IBLM	XDT_m1230503-244	NA	05/04/23 06:38
Calibration Check	SLE0071-CCVN	XDT_m1230503-245	NA	05/04/23 06:41

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLE0071	Instrument:	ICPMS1
		Calibration:	GE00019

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Calibration Blank	SLE0071-CCBN	XDT_m1230503-246	NA	05/04/23 06:47

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLE0204	Instrument:	ICPMS1
		Calibration:	GE00040

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
CAL 0	SLE0204-CAL1	XDT_m1230510A-008	NA	05/10/23 15:47
CAL 1 - LOW CHECK	SLE0204-CAL2	XDT_m1230510A-009	NA	05/10/23 15:51
CAL 2	SLE0204-CAL3	XDT_m1230510A-010	NA	05/10/23 15:56
CAL 3	SLE0204-CAL4	XDT_m1230510A-011	NA	05/10/23 16:01
CAL 4	SLE0204-CAL5	XDT_m1230510A-012	NA	05/10/23 16:05
CAL 5	SLE0204-CAL6	XDT_m1230510A-013	NA	05/10/23 16:12
RINSE	SLE0204-IBL1	XDT_m1230510A-014	NA	05/10/23 16:19
Initial Cal Check	SLE0204-ICV1	XDT_m1230510A-016	NA	05/10/23 16:25
Initial Cal Blank	SLE0204-ICB1	XDT_m1230510A-017	NA	05/10/23 16:32
Calibration Check	SLE0204-CCV1	XDT_m1230510A-018	NA	05/10/23 16:37
Calibration Blank	SLE0204-CCB1	XDT_m1230510A-019	NA	05/10/23 16:44
Instrument RL Check	SLE0204-CRL1	XDT_m1230510A-020	NA	05/10/23 16:49
Interference Check A	SLE0204-IFA1	XDT_m1230510A-021	NA	05/10/23 16:56
Interference Check B	SLE0204-IFB1	XDT_m1230510A-022	NA	05/10/23 17:00
LR200	SLE0204-HCV1	XDT_m1230510A-023	NA	05/10/23 17:06
LR300	SLE0204-HCV2	XDT_m1230510A-024	NA	05/10/23 17:11
Instrument Blank	SLE0204-IBL2	XDT_m1230510A-025	NA	05/10/23 17:18
Calibration Check	SLE0204-CCV2	XDT_m1230510A-026	NA	05/10/23 17:24
Calibration Blank	SLE0204-CCB2	XDT_m1230510A-027	NA	05/10/23 17:32
Calibration Check	SLE0204-CCV3	XDT_m1230510A-029	NA	05/10/23 17:41
Calibration Blank	SLE0204-CCB3	XDT_m1230510A-030	NA	05/10/23 17:49
ZZZZZ	BLD0687-BLK2	XDT_m1230510A-031	Solid	05/10/23 17:54
ZZZZZ	BLD0687-BS2	XDT_m1230510A-033	Solid	05/10/23 18:05
ZZZZZ	BLE0298-BLK1	XDT_m1230510A-034	Water	05/10/23 18:11
ZZZZZ	BLE0298-BS1	XDT_m1230510A-035	Water	05/10/23 18:15
ZZZZZ	BLE0077-MS2	XDT_m1230510A-036	Water	05/10/23 18:21
Instrument Blank	SLE0204-IBL3	XDT_m1230510A-040	NA	05/10/23 18:41
Calibration Check	SLE0204-CCV4	XDT_m1230510A-041	NA	05/10/23 18:45
Calibration Blank	SLE0204-CCB4	XDT_m1230510A-042	NA	05/10/23 18:53

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLE0204

SDG: 23C0071
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GE00040

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	BLE0143-BLK1	XDT_m1230510A-045	Solid	05/10/23 19:07
ZZZZZ	BLE0143-BS1	XDT_m1230510A-047	Solid	05/10/23 19:19
Instrument Blank	SLE0204-IBL4	XDT_m1230510A-050	NA	05/10/23 19:33
Instrument Blank	SLE0204-IBL5	XDT_m1230510A-052	NA	05/10/23 19:44
Calibration Check	SLE0204-CCV5	XDT_m1230510A-053	NA	05/10/23 19:48
Calibration Blank	SLE0204-CCB5	XDT_m1230510A-054	NA	05/10/23 19:56
Calibration Check	SLE0204-CCV6	XDT_m1230510A-057	NA	05/10/23 20:30
Calibration Blank	SLE0204-CCB6	XDT_m1230510A-058	NA	05/10/23 20:37
ZZZZZ	BLD0578-BLK1	XDT_m1230510A-059	Solid	05/10/23 20:44
ZZZZZ	BLD0578-BS1	XDT_m1230510A-060	Solid	05/10/23 20:48
ZZZZZ	BLE0072-BLK1	XDT_m1230510A-061	Solid	05/10/23 20:53
ZZZZZ	BLE0072-BS1	XDT_m1230510A-062	Solid	05/10/23 20:57
ZZZZZ	23D0394-01	XDT_m1230510A-063	Solid	05/10/23 21:02
ZZZZZ	BLD0687-DUP2	XDT_m1230510A-064	Solid	05/10/23 21:07
ZZZZZ	BLD0687-MS2	XDT_m1230510A-065	Solid	05/10/23 21:12
ZZZZZ	BLD0687-MSD2	XDT_m1230510A-066	Solid	05/10/23 21:16
Instrument Blank	SLE0204-IBL6	XDT_m1230510A-068	NA	05/10/23 21:25
Calibration Check	SLE0204-CCV7	XDT_m1230510A-069	NA	05/10/23 21:29
Calibration Blank	SLE0204-CCB7	XDT_m1230510A-070	NA	05/10/23 21:37
ZZZZZ	23A0467-02	XDT_m1230510A-071	Solid	05/10/23 21:41
ZZZZZ	23A0467-02	XDT_m1230510A-071	Solid	05/10/23 21:41
ZZZZZ	23A0467-02	XDT_m1230510A-071	Solid	05/10/23 21:41
ZZZZZ	23A0467-02	XDT_m1230510A-071	Solid	05/10/23 21:41
ZZZZZ	23A0467-03	XDT_m1230510A-072	Solid	05/10/23 21:45
ZZZZZ	23A0467-03	XDT_m1230510A-072	Solid	05/10/23 21:45
ZZZZZ	23A0467-03	XDT_m1230510A-072	Solid	05/10/23 21:45
ZZZZZ	23A0467-03	XDT_m1230510A-072	Solid	05/10/23 21:45
ZZZZZ	23A0467-04	XDT_m1230510A-073	Solid	05/10/23 21:50
ZZZZZ	23A0467-04	XDT_m1230510A-073	Solid	05/10/23 21:50

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLE0204
Instrument: ICPMS1
Calibration: GE00040

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	23A0467-04	XDT_m1230510A-073	Solid	05/10/23 21:50
ZZZZZ	23A0467-04	XDT_m1230510A-073	Solid	05/10/23 21:50
ZZZZZ	23A0467-05	XDT_m1230510A-074	Solid	05/10/23 21:54
ZZZZZ	23A0467-05	XDT_m1230510A-074	Solid	05/10/23 21:54
ZZZZZ	23A0467-05	XDT_m1230510A-074	Solid	05/10/23 21:54
ZZZZZ	23A0467-05	XDT_m1230510A-074	Solid	05/10/23 21:54
ZZZZZ	23A0467-01	XDT_m1230510A-075	Solid	05/10/23 21:59
ZZZZZ	23A0467-01	XDT_m1230510A-075	Solid	05/10/23 21:59
ZZZZZ	23A0467-01	XDT_m1230510A-075	Solid	05/10/23 21:59
ZZZZZ	23A0467-01	XDT_m1230510A-075	Solid	05/10/23 21:59
ZZZZZ	BLD0578-DUP1	XDT_m1230510A-076	Solid	05/10/23 22:03
ZZZZZ	BLD0578-MS1	XDT_m1230510A-077	Solid	05/10/23 22:08
ZZZZZ	BLD0578-MSD1	XDT_m1230510A-078	Solid	05/10/23 22:12
Instrument Blank	SLE0204-IBL7	XDT_m1230510A-080	NA	05/10/23 22:21
Calibration Check	SLE0204-CCV8	XDT_m1230510A-081	NA	05/10/23 22:25
Calibration Blank	SLE0204-CCB8	XDT_m1230510A-082	NA	05/10/23 22:32
ZZZZZ	23A0467-06	XDT_m1230510A-083	Solid	05/10/23 22:37
ZZZZZ	23A0467-06	XDT_m1230510A-083	Solid	05/10/23 22:37
ZZZZZ	23A0467-06	XDT_m1230510A-083	Solid	05/10/23 22:37
ZZZZZ	23A0467-06	XDT_m1230510A-083	Solid	05/10/23 22:37
ZZZZZ	23A0467-07	XDT_m1230510A-084	Solid	05/10/23 22:41
ZZZZZ	23A0467-07	XDT_m1230510A-084	Solid	05/10/23 22:41
ZZZZZ	23A0467-07	XDT_m1230510A-084	Solid	05/10/23 22:41
ZZZZZ	23A0467-07	XDT_m1230510A-084	Solid	05/10/23 22:41
ZZZZZ	23A0467-08	XDT_m1230510A-085	Solid	05/10/23 22:46
ZZZZZ	23A0467-08	XDT_m1230510A-085	Solid	05/10/23 22:46
ZZZZZ	23A0467-08	XDT_m1230510A-085	Solid	05/10/23 22:46
ZZZZZ	23A0467-08	XDT_m1230510A-085	Solid	05/10/23 22:46
ZZZZZ	23A0467-09	XDT_m1230510A-086	Solid	05/10/23 22:50

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLE0204

SDG: 23C0071
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GE00040

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	23A0467-09	XDT_m1230510A-086	Solid	05/10/23 22:50
ZZZZZ	23A0467-09	XDT_m1230510A-086	Solid	05/10/23 22:50
ZZZZZ	23A0467-09	XDT_m1230510A-086	Solid	05/10/23 22:50
Instrument Blank	SLE0204-IBL8	XDT_m1230510A-092	NA	05/10/23 23:16
Calibration Check	SLE0204-CCV9	XDT_m1230510A-093	NA	05/10/23 23:21
Calibration Blank	SLE0204-CCB9	XDT_m1230510A-094	NA	05/10/23 23:28
LDW23-SS1000	23C0071-01	XDT_m1230510A-095	Solid	05/10/23 23:33
LDW23-SS1000	23C0071-01	XDT_m1230510A-095	Solid	05/10/23 23:33
LDW23-SS1000	23C0071-01	XDT_m1230510A-095	Solid	05/10/23 23:33
LDW23-SS1000	23C0071-01	XDT_m1230510A-095	Solid	05/10/23 23:33
LDW23-SS1037	23C0071-02	XDT_m1230510A-096	Solid	05/10/23 23:37
LDW23-SS1037	23C0071-02	XDT_m1230510A-096	Solid	05/10/23 23:37
LDW23-SS1037	23C0071-02	XDT_m1230510A-096	Solid	05/10/23 23:37
LDW23-SS1037	23C0071-02	XDT_m1230510A-096	Solid	05/10/23 23:37
LDW23-SS1036	23C0071-03	XDT_m1230510A-097	Solid	05/10/23 23:41
LDW23-SS1036	23C0071-03	XDT_m1230510A-097	Solid	05/10/23 23:41
LDW23-SS1036	23C0071-03	XDT_m1230510A-097	Solid	05/10/23 23:41
LDW23-SS1036	23C0071-03	XDT_m1230510A-097	Solid	05/10/23 23:41
LDW23-SS1044	23C0071-04	XDT_m1230510A-098	Solid	05/10/23 23:46
LDW23-SS1044	23C0071-04	XDT_m1230510A-098	Solid	05/10/23 23:46
LDW23-SS1044	23C0071-04	XDT_m1230510A-098	Solid	05/10/23 23:46
LDW23-SS1044	23C0071-04	XDT_m1230510A-098	Solid	05/10/23 23:46
LDW23-SS1048	23C0071-05	XDT_m1230510A-099	Solid	05/10/23 23:50
LDW23-SS1048	23C0071-05	XDT_m1230510A-099	Solid	05/10/23 23:50
LDW23-SS1048	23C0071-05	XDT_m1230510A-099	Solid	05/10/23 23:50
LDW23-SS1048	23C0071-05	XDT_m1230510A-099	Solid	05/10/23 23:50
LDW23-SS1054	23C0071-06	XDT_m1230510A-100	Solid	05/10/23 23:55
LDW23-SS1054	23C0071-06	XDT_m1230510A-100	Solid	05/10/23 23:55
LDW23-SS1054	23C0071-06	XDT_m1230510A-100	Solid	05/10/23 23:55

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLE0204
SDG: 23C0071
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GE00040

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
LDW23-SS1054	23C0071-06	XDT_m1230510A-100	Solid	05/10/23 23:55
ZZZZZ	23C0109-02	XDT_m1230510A-101	Solid	05/10/23 23:59
ZZZZZ	23C0109-02	XDT_m1230510A-101	Solid	05/10/23 23:59
ZZZZZ	23C0109-02	XDT_m1230510A-101	Solid	05/10/23 23:59
ZZZZZ	23C0109-02	XDT_m1230510A-101	Solid	05/10/23 23:59
ZZZZZ	23C0109-03	XDT_m1230510A-102	Solid	05/11/23 00:03
ZZZZZ	23C0109-03	XDT_m1230510A-102	Solid	05/11/23 00:03
ZZZZZ	23C0109-03	XDT_m1230510A-102	Solid	05/11/23 00:03
ZZZZZ	23C0109-03	XDT_m1230510A-102	Solid	05/11/23 00:03
ZZZZZ	23C0108-02	XDT_m1230510A-103	Solid	05/11/23 00:08
ZZZZZ	23C0108-02	XDT_m1230510A-103	Solid	05/11/23 00:08
ZZZZZ	23C0108-02	XDT_m1230510A-103	Solid	05/11/23 00:08
ZZZZZ	23C0108-02	XDT_m1230510A-103	Solid	05/11/23 00:08
Instrument Blank	SLE0204-IBL9	XDT_m1230510A-104	NA	05/11/23 00:12
Calibration Check	SLE0204-CCVA	XDT_m1230510A-105	NA	05/11/23 00:16
Calibration Blank	SLE0204-CCBA	XDT_m1230510A-106	NA	05/11/23 00:24
ZZZZZ	23C0108-06	XDT_m1230510A-107	Solid	05/11/23 00:28
ZZZZZ	23C0108-06	XDT_m1230510A-107	Solid	05/11/23 00:28
ZZZZZ	23C0108-06	XDT_m1230510A-107	Solid	05/11/23 00:28
ZZZZZ	23C0108-06	XDT_m1230510A-107	Solid	05/11/23 00:28
ZZZZZ	23C0108-07	XDT_m1230510A-108	Solid	05/11/23 00:32
ZZZZZ	23C0108-07	XDT_m1230510A-108	Solid	05/11/23 00:32
ZZZZZ	23C0108-07	XDT_m1230510A-108	Solid	05/11/23 00:32
ZZZZZ	23C0108-07	XDT_m1230510A-108	Solid	05/11/23 00:32
ZZZZZ	23C0108-08	XDT_m1230510A-109	Solid	05/11/23 00:37
ZZZZZ	23C0108-08	XDT_m1230510A-109	Solid	05/11/23 00:37
ZZZZZ	23C0108-08	XDT_m1230510A-109	Solid	05/11/23 00:37
ZZZZZ	23C0108-08	XDT_m1230510A-109	Solid	05/11/23 00:37
ZZZZZ	23C0108-09	XDT_m1230510A-110	Solid	05/11/23 00:41

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLE0204
Instrument: ICPMS1
Calibration: GE00040

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	23C0108-09	XDT_m1230510A-110	Solid	05/11/23 00:41
ZZZZZ	23C0108-09	XDT_m1230510A-110	Solid	05/11/23 00:41
ZZZZZ	23C0108-09	XDT_m1230510A-110	Solid	05/11/23 00:41
ZZZZZ	23D0008-01	XDT_m1230510A-111	Solid	05/11/23 00:46
ZZZZZ	23D0008-01	XDT_m1230510A-111	Solid	05/11/23 00:46
ZZZZZ	23D0008-01	XDT_m1230510A-111	Solid	05/11/23 00:46
ZZZZZ	23D0008-01	XDT_m1230510A-111	Solid	05/11/23 00:46
ZZZZZ	23D0008-03	XDT_m1230510A-112	Solid	05/11/23 00:50
ZZZZZ	23D0008-03	XDT_m1230510A-112	Solid	05/11/23 00:50
ZZZZZ	23D0008-03	XDT_m1230510A-112	Solid	05/11/23 00:50
ZZZZZ	23D0008-03	XDT_m1230510A-112	Solid	05/11/23 00:50
ZZZZZ	23D0037-01	XDT_m1230510A-113	Solid	05/11/23 00:54
ZZZZZ	23D0037-01	XDT_m1230510A-113	Solid	05/11/23 00:54
ZZZZZ	23D0037-01	XDT_m1230510A-113	Solid	05/11/23 00:54
ZZZZZ	23D0037-01	XDT_m1230510A-113	Solid	05/11/23 00:54
ZZZZZ	23D0037-03	XDT_m1230510A-114	Solid	05/11/23 00:59
ZZZZZ	23D0037-03	XDT_m1230510A-114	Solid	05/11/23 00:59
ZZZZZ	23D0037-03	XDT_m1230510A-114	Solid	05/11/23 00:59
ZZZZZ	23D0037-03	XDT_m1230510A-114	Solid	05/11/23 00:59
ZZZZZ	23D0037-02	XDT_m1230510A-115	Solid	05/11/23 01:03
Instrument Blank	SLE0204-IBLA	XDT_m1230510A-116	NA	05/11/23 01:08
Calibration Check	SLE0204-CCVB	XDT_m1230510A-117	NA	05/11/23 01:12
Calibration Blank	SLE0204-CCBB	XDT_m1230510A-118	NA	05/11/23 01:19
Calibration Check	SLE0204-CCVC	XDT_m1230510A-120	NA	05/11/23 01:28
Calibration Blank	SLE0204-CCBC	XDT_m1230510A-121	NA	05/11/23 01:35
ZZZZZ	23D0037-04	XDT_m1230510A-122	Solid	05/11/23 01:40
ZZZZZ	23D0063-01	XDT_m1230510A-123	Solid	05/11/23 01:44
ZZZZZ	23D0063-01	XDT_m1230510A-123	Solid	05/11/23 01:44
ZZZZZ	23D0063-01	XDT_m1230510A-123	Solid	05/11/23 01:44

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLE0204
Instrument: ICPMS1
Calibration: GE00040

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	23D0063-01	XDT_m1230510A-123	Solid	05/11/23 01:44
ZZZZZ	23D0063-03	XDT_m1230510A-124	Solid	05/11/23 01:49
ZZZZZ	23D0063-03	XDT_m1230510A-124	Solid	05/11/23 01:49
ZZZZZ	23D0063-03	XDT_m1230510A-124	Solid	05/11/23 01:49
ZZZZZ	23D0063-03	XDT_m1230510A-124	Solid	05/11/23 01:49
Instrument Blank	SLE0204-IBLB	XDT_m1230510A-131	NA	05/11/23 02:21
Calibration Check	SLE0204-CCVD	XDT_m1230510A-132	NA	05/11/23 02:26
Calibration Blank	SLE0204-CCBD	XDT_m1230510A-133	NA	05/11/23 02:33
Instrument Blank	SLE0204-IBLC	XDT_m1230510A-138	NA	05/11/23 02:57
ZZZZZ	23D0477-21	XDT_m1230510A-141	Water	05/11/23 03:11
ZZZZZ	23D0477-21	XDT_m1230510A-141	Water	05/11/23 03:11
ZZZZZ	23D0477-21	XDT_m1230510A-141	Water	05/11/23 03:11
ZZZZZ	23D0477-22	XDT_m1230510A-142	Water	05/11/23 03:15
ZZZZZ	23D0477-22	XDT_m1230510A-142	Water	05/11/23 03:15
ZZZZZ	23D0477-22	XDT_m1230510A-142	Water	05/11/23 03:15
Instrument Blank	SLE0204-IBLD	XDT_m1230510A-143	NA	05/11/23 03:20
Calibration Check	SLE0204-CCVE	XDT_m1230510A-144	NA	05/11/23 03:24
Calibration Blank	SLE0204-CCBE	XDT_m1230510A-145	NA	05/11/23 03:31
ZZZZZ	23D0477-11	XDT_m1230510A-146	Water	05/11/23 03:36
ZZZZZ	23D0477-11	XDT_m1230510A-146	Water	05/11/23 03:36
ZZZZZ	23D0477-11	XDT_m1230510A-146	Water	05/11/23 03:36
ZZZZZ	23D0477-13	XDT_m1230510A-147	Water	05/11/23 03:40
ZZZZZ	23D0477-13	XDT_m1230510A-147	Water	05/11/23 03:40
ZZZZZ	23D0477-13	XDT_m1230510A-147	Water	05/11/23 03:40
ZZZZZ	23D0477-02	XDT_m1230510A-148	Water	05/11/23 03:45
ZZZZZ	23D0477-02	XDT_m1230510A-148	Water	05/11/23 03:45
ZZZZZ	23D0477-02	XDT_m1230510A-148	Water	05/11/23 03:45
Instrument Blank	SLE0204-IBLE	XDT_m1230510A-150	NA	05/11/23 03:57
Instrument Blank	SLE0204-IBLF	XDT_m1230510A-155	NA	05/11/23 04:21

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLE0204

SDG: 23C0071
Project: AOC5 MR Phase 1
Instrument: ICPMS1
Calibration: GE00040

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Calibration Check	SLE0204-CCVF	XDT_m1230510A-156	NA	05/11/23 04:26
Calibration Blank	SLE0204-CCBF	XDT_m1230510A-157	NA	05/11/23 04:33
Calibration Check	SLE0204-CCVG	XDT_m1230510A-159	NA	05/11/23 04:42
Calibration Blank	SLE0204-CCBG	XDT_m1230510A-160	NA	05/11/23 04:49
ZZZZZ	23D0477-04	XDT_m1230510A-161	Water	05/11/23 04:53
ZZZZZ	23D0477-04	XDT_m1230510A-161	Water	05/11/23 04:53
ZZZZZ	23D0477-04	XDT_m1230510A-161	Water	05/11/23 04:53
ZZZZZ	23D0477-06	XDT_m1230510A-162	Water	05/11/23 04:58
ZZZZZ	23D0477-06	XDT_m1230510A-162	Water	05/11/23 04:58
ZZZZZ	23D0477-06	XDT_m1230510A-162	Water	05/11/23 04:58
ZZZZZ	23D0477-08	XDT_m1230510A-163	Water	05/11/23 05:02
ZZZZZ	23D0477-08	XDT_m1230510A-163	Water	05/11/23 05:02
ZZZZZ	23D0477-08	XDT_m1230510A-163	Water	05/11/23 05:02
ZZZZZ	23D0477-10	XDT_m1230510A-164	Water	05/11/23 05:07
ZZZZZ	23D0477-10	XDT_m1230510A-164	Water	05/11/23 05:07
ZZZZZ	23D0477-10	XDT_m1230510A-164	Water	05/11/23 05:07
ZZZZZ	23D0477-12	XDT_m1230510A-165	Water	05/11/23 05:11
ZZZZZ	23D0477-12	XDT_m1230510A-165	Water	05/11/23 05:11
ZZZZZ	23D0477-12	XDT_m1230510A-165	Water	05/11/23 05:11
ZZZZZ	23D0477-20	XDT_m1230510A-166	Water	05/11/23 05:16
ZZZZZ	23D0477-20	XDT_m1230510A-166	Water	05/11/23 05:16
ZZZZZ	23D0477-20	XDT_m1230510A-166	Water	05/11/23 05:16
Instrument Blank	SLE0204-IBLG	XDT_m1230510A-170	NA	05/11/23 05:33
Calibration Check	SLE0204-CCVH	XDT_m1230510A-171	NA	05/11/23 05:38
Calibration Blank	SLE0204-CCBH	XDT_m1230510A-172	NA	05/11/23 05:45
ZZZZZ	23D0477-14	XDT_m1230510A-173	Water	05/11/23 05:50
ZZZZZ	23D0477-14	XDT_m1230510A-173	Water	05/11/23 05:50
ZZZZZ	23D0477-14	XDT_m1230510A-173	Water	05/11/23 05:50
ZZZZZ	23D0477-16	XDT_m1230510A-174	Water	05/11/23 05:54

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLE0204
Instrument: ICPMS1
Calibration: GE00040

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	23D0477-16	XDT_m1230510A-174	Water	05/11/23 05:54
ZZZZZ	23D0477-16	XDT_m1230510A-174	Water	05/11/23 05:54
ZZZZZ	23D0477-18	XDT_m1230510A-175	Water	05/11/23 05:58
ZZZZZ	23D0477-18	XDT_m1230510A-175	Water	05/11/23 05:58
ZZZZZ	23D0477-18	XDT_m1230510A-175	Water	05/11/23 05:58
ZZZZZ	23D0477-01	XDT_m1230510A-176	Water	05/11/23 06:03
ZZZZZ	23D0477-01	XDT_m1230510A-176	Water	05/11/23 06:03
ZZZZZ	23D0477-01	XDT_m1230510A-176	Water	05/11/23 06:03
ZZZZZ	23D0477-03	XDT_m1230510A-177	Water	05/11/23 06:07
ZZZZZ	23D0477-03	XDT_m1230510A-177	Water	05/11/23 06:07
ZZZZZ	23D0477-03	XDT_m1230510A-177	Water	05/11/23 06:07
ZZZZZ	23D0477-07	XDT_m1230510A-178	Water	05/11/23 06:12
ZZZZZ	23D0477-07	XDT_m1230510A-178	Water	05/11/23 06:12
ZZZZZ	23D0477-07	XDT_m1230510A-178	Water	05/11/23 06:12
ZZZZZ	23D0477-09	XDT_m1230510A-179	Water	05/11/23 06:16
ZZZZZ	23D0477-09	XDT_m1230510A-179	Water	05/11/23 06:16
ZZZZZ	23D0477-09	XDT_m1230510A-179	Water	05/11/23 06:16
ZZZZZ	23D0477-15	XDT_m1230510A-180	Water	05/11/23 06:20
ZZZZZ	23D0477-15	XDT_m1230510A-180	Water	05/11/23 06:20
ZZZZZ	23D0477-15	XDT_m1230510A-180	Water	05/11/23 06:20
ZZZZZ	23D0487-02	XDT_m1230510A-181	Water	05/11/23 06:26
Instrument Blank	SLE0204-IBLH	XDT_m1230510A-182	NA	05/11/23 06:31
Calibration Check	SLE0204-CCVI	XDT_m1230510A-183	NA	05/11/23 06:35
Calibration Blank	SLE0204-CCBI	XDT_m1230510A-184	NA	05/11/23 06:42
ZZZZZ	23D0487-06	XDT_m1230510A-185	Water	05/11/23 06:47
ZZZZZ	23D0487-05	XDT_m1230510A-186	Water	05/11/23 06:51
ZZZZZ	23D0487-04	XDT_m1230510A-187	Water	05/11/23 06:55
ZZZZZ	23D0487-03	XDT_m1230510A-188	Water	05/11/23 07:00
Instrument Blank	SLE0204-IBLI	XDT_m1230510A-189	NA	05/11/23 07:05

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6020B UCT-KED

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Sequence:	SLE0204	Instrument:	ICPMS1
		Calibration:	GE00040

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	23D0636-01	XDT_m1230510A-190	Water	05/11/23 07:09
ZZZZZ	23D0636-01	XDT_m1230510A-190	Water	05/11/23 07:09
ZZZZZ	23D0636-01	XDT_m1230510A-190	Water	05/11/23 07:09
ZZZZZ	23D0636-01	XDT_m1230510A-190	Water	05/11/23 07:09
ZZZZZ	BLE0298-DUP1	XDT_m1230510A-191	Water	05/11/23 07:14
ZZZZZ	BLE0298-MS1	XDT_m1230510A-192	Water	05/11/23 07:19
ZZZZZ	BLE0298-MSD1	XDT_m1230510A-193	Water	05/11/23 07:25
Instrument Blank	SLE0204-IBLJ	XDT_m1230510A-194	NA	05/11/23 07:29
Calibration Check	SLE0204-CCVJ	XDT_m1230510A-195	NA	05/11/23 07:34
Calibration Blank	SLE0204-CCBJ	XDT_m1230510A-196	NA	05/11/23 07:41

ICP INTERFERENCE CHECK SAMPLE

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00007
Sequence: SLE0017
Standard ID: L004688

Lab Sample ID	Analyte	True	Found	%R	Units
SLE0017-IFA1	Arsenic-75a	0	0.0280		ug/L
	Cadmium-111	0	0.0770		ug/L
	Cadmium-114	0	0.0680		ug/L
	Copper-63	0	0.0280		ug/L
	Copper-65	0	0.0360		ug/L
	Zinc-66	0	0.3360		ug/L
	Zinc-67	0	0.3840		ug/L

* Indicates %R outside of QC limits

NOTE: True value and %R are populated only for analytes found in the interference check standards, and will be seen only if those analytes were requested.

ICP INTERFERENCE CHECK SAMPLE

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00007
Sequence: SLE0017
Standard ID: L004688

Lab Sample ID	Analyte	True	Found	%R	Units
SLE0017-IFB1	Arsenic-75a	20.000	19.287	96.4	ug/L
	Cadmium-111	20.000	19.912	99.6	ug/L
	Cadmium-114	20.000	19.692	98.5	ug/L
	Copper-63	20.000	20.681	103	ug/L
	Copper-65	20.000	20.452	102	ug/L
	Zinc-66	20.000	19.307	96.5	ug/L
	Zinc-67	20.000	17.401	87.0	ug/L

* Indicates %R outside of QC limits
NOTE: True value and %R are populated only for analytes found in the interference check standards, and will be seen only if those analytes were requested.

ICP INTERFERENCE CHECK SAMPLE

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00013
Sequence: SLE0043
Standard ID: L004688

Lab Sample ID	Analyte	True	Found	%R	Units
SLE0043-IFA1	Arsenic-75a	0	0.0370		ug/L
	Cadmium-111	0	0.0960		ug/L
	Cadmium-114	0	0.0580		ug/L
	Copper-63	0	0.0500		ug/L
	Copper-65	0	0.0530		ug/L
	Zinc-66	0	0.4970		ug/L
	Zinc-67	0	0.5520		ug/L

* Indicates %R outside of QC limits

NOTE: True value and %R are populated only for analytes found in the interference check standards, and will be seen only if those analytes were requested.

ICP INTERFERENCE CHECK SAMPLE

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00013
Sequence: SLE0043
Standard ID: L004688

Lab Sample ID	Analyte	True	Found	%R	Units
SLE0043-IFB1	Arsenic-75a	20.000	19.382	96.9	ug/L
	Cadmium-111	20.000	19.617	98.1	ug/L
	Cadmium-114	20.000	19.821	99.1	ug/L
	Copper-63	20.000	20.099	100	ug/L
	Copper-65	20.000	20.164	101	ug/L
	Zinc-66	20.000	18.958	94.8	ug/L
	Zinc-67	20.000	18.252	91.3	ug/L

* Indicates %R outside of QC limits
NOTE: True value and %R are populated only for analytes found in the interference check standards, and will be seen only if those analytes were requested.

ICP INTERFERENCE CHECK SAMPLE

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00019
Sequence: SLE0071
Standard ID: L004688

Lab Sample ID	Analyte	True	Found	%R	Units
SLE0071-IFA1	Arsenic-75a	0	0.0300		ug/L
	Copper-63	0	0.0450		ug/L
	Copper-65	0	0.0420		ug/L
	Zinc-66	0	0.3330		ug/L
	Zinc-67	0	0.3100		ug/L

* Indicates %R outside of QC limits

NOTE: True value and %R are populated only for analytes found in the interference check standards, and will be seen only if those analytes were requested.

ICP INTERFERENCE CHECK SAMPLE

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00019
Sequence: SLE0071
Standard ID: L004688

Lab Sample ID	Analyte	True	Found	%R	Units
SLE0071-IFB1	Arsenic-75a	20.000	19.801	99.0	ug/L
	Copper-63	20.000	20.193	101	ug/L
	Copper-65	20.000	20.452	102	ug/L
	Zinc-66	20.000	19.804	99.0	ug/L
	Zinc-67	20.000	17.982	89.9	ug/L

* Indicates %R outside of QC limits
NOTE: True value and %R are populated only for analytes found in the interference check standards, and will be seen only if those analytes were requested.

ICP INTERFERENCE CHECK SAMPLE

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00040
Sequence: SLE0204
Standard ID: L004688

Lab Sample ID	Analyte	True	Found	%R	Units
SLE0204-IFA1	Arsenic-75a	0	0.0260		ug/L
	Cadmium-111	0	0.0430		ug/L
	Cadmium-114	0	0.0270		ug/L
	Copper-63	0	0.0390		ug/L
	Copper-65	0	0.0330		ug/L
	Zinc-66	0	0.3120		ug/L
	Zinc-67	0	0.2690		ug/L

* Indicates %R outside of QC limits

NOTE: True value and %R are populated only for analytes found in the interference check standards, and will be seen only if those analytes were requested.

ICP INTERFERENCE CHECK SAMPLE

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00040
Sequence: SLE0204
Standard ID: L004688

Lab Sample ID	Analyte	True	Found	%R	Units
SLE0204-IFB1	Arsenic-75a	20.000	19.651	98.3	ug/L
	Cadmium-111	20.000	18.519	92.6	ug/L
	Cadmium-114	20.000	18.365	91.8	ug/L
	Copper-63	20.000	20.580	103	ug/L
	Copper-65	20.000	20.103	101	ug/L
	Zinc-66	20.000	19.662	98.3	ug/L
	Zinc-67	20.000	17.951	89.8	ug/L

* Indicates %R outside of QC limits
NOTE: True value and %R are populated only for analytes found in the interference check standards, and will be seen only if those analytes were requested.

DETECTION LEVEL STANDARD
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00007
Sequence: SLE0017
Lab Sample ID: SLE0017-CRL1

Analyte	True	Found	%R	Units	QC Limts
Arsenic-75a	0.20000	0.190	95.0	ug/L	50 - 150
Cadmium-111	0.10000	0.0890	89.0	ug/L	50 - 150
Cadmium-114	0.10000	0.0930	93.0	ug/L	50 - 150
Copper-63	0.50000	0.495	99.0	ug/L	50 - 150
Copper-65	0.50000	0.507	101	ug/L	50 - 150
Zinc-66	6.0000	6.00	100	ug/L	50 - 150
Zinc-67	6.0000	5.19	86.5	ug/L	50 - 150

* Values outside of QC limits

DETECTION LEVEL STANDARD
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00013
Sequence: SLE0043
Lab Sample ID: SLE0043-CRL1

Analyte	True	Found	%R	Units	QC Limts
Arsenic-75a	0.20000	0.215	108	ug/L	50 - 150
Cadmium-111	0.10000	0.116	116	ug/L	50 - 150
Cadmium-114	0.10000	0.106	106	ug/L	50 - 150
Copper-63	0.50000	0.556	111	ug/L	50 - 150
Copper-65	0.50000	0.557	111	ug/L	50 - 150
Zinc-66	6.0000	6.27	104	ug/L	50 - 150
Zinc-67	6.0000	6.01	100	ug/L	50 - 150

* Values outside of QC limits

DETECTION LEVEL STANDARD
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00019
Sequence: SLE0071
Lab Sample ID: SLE0071-CRL1

Analyte	True	Found	%R	Units	QC Limts
Arsenic-75a	0.20000	0.202	101	ug/L	50 - 150
Copper-63	0.50000	0.555	111	ug/L	50 - 150
Copper-65	0.50000	0.572	114	ug/L	50 - 150
Zinc-66	6.0000	6.20	103	ug/L	50 - 150
Zinc-67	6.0000	5.93	98.8	ug/L	50 - 150

* Values outside of QC limits

DETECTION LEVEL STANDARD
EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: ICPMS1
Calibration: GE00040
Sequence: SLE0204
Lab Sample ID: SLE0204-CRL1

Analyte	True	Found	%R	Units	QC Limts
Arsenic-75a	0.20000	0.213	107	ug/L	50 - 150
Cadmium-111	0.10000	0.113	113	ug/L	50 - 150
Cadmium-114	0.10000	0.0970	97.0	ug/L	50 - 150
Copper-63	0.50000	0.708	142	ug/L	50 - 150
Copper-65	0.50000	0.727	145	ug/L	50 - 150
Zinc-66	6.0000	6.25	104	ug/L	50 - 150
Zinc-67	6.0000	6.11	102	ug/L	50 - 150

* Values outside of QC limits

HIGH-CONCENTRATION CALIBRATION VERIFICATION

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GE00007
Laboratory ID: SLE0017-HCV1
Sequence: SLE0017
Standard ID: L004780

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Arsenic-75a	200.00	195	-2.4	10.00
Cadmium-111	200.00	201	0.7	10.00
Cadmium-114	200.00	200	0.1	10.00
Copper-63	200.00	198	-1.0	10.00
Copper-65	200.00	194	-3.0	10.00
Zinc-66	200.00	198	-1.0	10.00
Zinc-67	200.00	190	-5.1	10.00

* Values outside of QC limits

HIGH-CONCENTRATION CALIBRATION VERIFICATION

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GE00007
Laboratory ID: SLE0017-HCV2
Sequence: SLE0017
Standard ID: L004781

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Arsenic-75a	300.00	298	-0.5	10.00
Cadmium-111	300.00	303	1.1	10.00
Cadmium-114	300.00	300	-0.09	10.00
Copper-63	300.00	297	-0.9	10.00
Copper-65	300.00	295	-1.5	10.00
Zinc-66	300.00	289	-3.8	10.00
Zinc-67	300.00	285	-4.8	10.00

* Values outside of QC limits

HIGH-CONCENTRATION CALIBRATION VERIFICATION

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GE00013
Laboratory ID: SLE0043-HCV1
Sequence: SLE0043
Standard ID: L004780

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Arsenic-75a	200.00	202	1.2	10.00
Cadmium-111	200.00	201	0.3	10.00
Cadmium-114	200.00	200	0.1	10.00
Copper-63	200.00	200	0.04	10.00
Copper-65	200.00	200	-0.2	10.00
Zinc-66	200.00	196	-2.2	10.00
Zinc-67	200.00	195	-2.4	10.00

* Values outside of QC limits

HIGH-CONCENTRATION CALIBRATION VERIFICATION

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GE00013
Laboratory ID: SLE0043-HCV2
Sequence: SLE0043
Standard ID: L004781

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Arsenic-75a	300.00	304	1.2	10.00
Cadmium-111	300.00	293	-2.3	10.00
Cadmium-114	300.00	292	-2.5	10.00
Copper-63	300.00	295	-1.6	10.00
Copper-65	300.00	296	-1.2	10.00
Zinc-66	300.00	286	-4.8	10.00
Zinc-67	300.00	289	-3.8	10.00

* Values outside of QC limits

HIGH-CONCENTRATION CALIBRATION VERIFICATION

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GE00019
Laboratory ID: SLE0071-HCV1
Sequence: SLE0071
Standard ID: L004780

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Arsenic-75a	200.00	198	-1.0	10.00
Copper-63	200.00	194	-2.8	10.00
Copper-65	200.00	195	-2.6	10.00
Zinc-66	200.00	194	-2.9	10.00
Zinc-67	200.00	191	-4.7	10.00

* Values outside of QC limits

HIGH-CONCENTRATION CALIBRATION VERIFICATION

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GE00019
Laboratory ID: SLE0071-HCV2
Sequence: SLE0071
Standard ID: L004781

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Arsenic-75a	300.00	300	-0.08	10.00
Copper-63	300.00	288	-4.1	10.00
Copper-65	300.00	291	-3.1	10.00
Zinc-66	300.00	284	-5.2	10.00
Zinc-67	300.00	282	-6.0	10.00

* Values outside of QC limits

HIGH-CONCENTRATION CALIBRATION VERIFICATION

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GE00040
Laboratory ID: SLE0204-HCV1
Sequence: SLE0204
Standard ID: L004780

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Arsenic-75a	200.00	194	-3.1	10.00
Cadmium-111	200.00	220	9.8	10.00
Cadmium-114	200.00	220	10.0	10.00
Copper-63	200.00	188	-6.2	10.00
Copper-65	200.00	186	-7.1	10.00
Zinc-66	200.00	189	-5.4	10.00
Zinc-67	200.00	187	-6.7	10.00

* Values outside of QC limits

HIGH-CONCENTRATION CALIBRATION VERIFICATION

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: GE00040
Laboratory ID: SLE0204-HCV2
Sequence: SLE0204
Standard ID: L004781

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Arsenic-75a	300.00	305	1.7	10.00
Cadmium-111	300.00	293	-2.4	10.00
Cadmium-114	300.00	294	-1.9	10.00
Copper-63	300.00	287	-4.3	10.00
Copper-65	300.00	287	-4.2	10.00
Zinc-66	300.00	285	-4.9	10.00
Zinc-67	300.00	288	-4.1	10.00

* Values outside of QC limits

HOLDING TIME SUMMARY

Analysis: EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
LDW23-SS1000 23C0071-01	03/02/23 09:33	03/02/23 16:34	04/19/23 12:43	48	180	05/10/23 23:33	70	180	
LDW23-SS1037 23C0071-02	03/02/23 09:56	03/02/23 16:34	04/19/23 12:43	48	180	05/10/23 23:37	70	180	
LDW23-SS1036 23C0071-03	03/02/23 10:10	03/02/23 16:34	04/19/23 12:43	48	180	05/10/23 23:41	70	180	
LDW23-SS1044 23C0071-04	03/02/23 10:22	03/02/23 16:34	04/19/23 12:43	48	180	05/10/23 23:46	70	180	
LDW23-SS1048 23C0071-05	03/02/23 10:32	03/02/23 16:34	04/19/23 12:43	48	180	05/10/23 23:50	70	180	
LDW23-SS1054 23C0071-06	03/02/23 10:41	03/02/23 16:34	04/19/23 12:43	48	180	05/10/23 23:55	70	180	

* Indicates hold time exceedance.

METHOD DETECTION AND REPORTING LIMITS

EPA 6020B UCT-KED

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Matrix: Solid
Instrument: ICPMS1

Analyte	MDL	RL	Units
Arsenic-75a	0.04	0.20	mg/kg
Cadmium-111	0.03	0.10	mg/kg
Cadmium-114	0.04	0.10	mg/kg
Copper-63	0.17	0.50	mg/kg
Copper-65	0.35	0.50	mg/kg
Zinc-66	2.9	6.0	mg/kg
Zinc-67	0.9	6.0	mg/kg

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

tel: 800.669.6799 · 540.585.3030
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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGCU10
Lot Number:	P2-CU682108
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Copper
Starting Material:	Cu Metal
Starting Material Lot#:	2095
Starting Material Purity:	99.9996%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10013 ± 30 µg/mL

Density: 1.032 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **9977 ± 50 µg/mL**
ICP Assay NIST SRM 3114 Lot Number: 121207

Assay Method #2 **10024 ± 26 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **10007 ± 46 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.007542	M	Eu	<	0.000942	O	Na		0.001434	M	Se	<	0.016971	M	Zn	<	0.005657
O	Al	<	0.000609	O	Fe		0.008700	M	Nb	<	0.000942	O	Si		0.003052	M	Zr	<	0.000942
M	As	<	0.010371	M	Ga	<	0.000942	M	Nd	<	0.000942	M	Sm	<	0.000942				
M	Au	<	0.001885	M	Gd	<	0.000942	M	Ni		0.003781	M	Sn	<	0.005657				
O	B		0.003663	M	Ge	<	0.005657	M	Os	<	0.000942	M	Sr	<	0.000942				
M	Ba		0.004253	M	Hf	<	0.000942	O	P	<	0.031668	M	Ta	<	0.000942				
M	Be	<	0.000942	O	Hg	<	0.007064	M	Pb		0.005789	M	Tb	<	0.000942				
M	Bi	<	0.000942	M	Ho	<	0.000942	M	Pd	<	0.000942	M	Te	<	0.004714				
O	Ca		0.002304	M	In	<	0.000942	M	Pr	<	0.000942	M	Th	<	0.000942				
M	Cd	<	0.000942	M	Ir	<	0.000942	M	Pt	<	0.000942	O	Ti	<	0.002801				
M	Ce	<	0.000942	O	K		0.000763	M	Rb	<	0.000942	M	Tl	<	0.000942				
M	Co		0.001890	M	La	<	0.000942	M	Re	<	0.000942	M	Tm	<	0.000942				
M	Cr	<	0.005657	O	Li	<	0.000243	i	Rh	<		M	U	<	0.000942				
M	Cs	<	0.000942	M	Lu	<	0.000942	M	Ru	<	0.039588	M	V	<	0.003771				
s	Cu	<		O	Mg		0.000320	O	S		0.007174	M	W	<	0.005657				
M	Dy	<	0.000942	O	Mn		0.000793	M	Sb	<	0.001885	M	Y	<	0.000942				
M	Er	<	0.000942	M	Mo	<	0.005657	M	Sc	<	0.000942	M	Yb	<	0.000942				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 63.55 +2 6 $Cu(H_2O)_6^{2+}$

Chemical Compatibility -Stable in HCl, HNO_3, H_2SO_4, HF, H_3PO_4. Avoid basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO_3 / LDPE container.

Cu Containing Samples (Preparation and Solution) -Metal (soluble in HNO_3); Oxides (Soluble in HCl); Ores (Dissolve in HCl / HNO_3).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 63 amu	10 ppt	n/a	40Ar23Na 47Ti16O, 14N12C37Cl, 16O12C35Cl, 23Na40Ca
ICP-OES 219.958 nm	0.01/.002 µg/mL	1	Th, Ta, Nb, U, Hf
ICP-OES 224.700 nm	0.01/.001 µg/mL	1	Pb, Ir, Ni, W
ICP-OES 324.754 nm	0.06/.001 µg/mL		Nb, U, Th, Mo, Hf

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

August 24, 2019

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **August 24, 2023**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

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Certificate of Analysis

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGPB10
Lot Number:	S2-PB713228
Matrix:	0.5% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Lead
Starting Material:	Lead Nitrate
Starting Material Lot#:	2343
Starting Material Purity:	99.9995%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10042 ± 31 µg/mL

Density: 1.015 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10024 ± 41 µg/mL**
ICP Assay NIST SRM 3128 Lot Number: 101026

Assay Method #2 **10054 ± 32 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000310	M	Eu	<	0.000310	M	Na		0.001470	M	Se	<	0.009100	O	Zn	0.006155
O	Al		0.017098	O	Fe		0.002496	M	Nb	<	0.000310	O	Si		0.003761	O	Zr	< 0.001700
M	As	<	0.003100	M	Ga	<	0.000310	M	Nd	<	0.000310	M	Sm	<	0.000310			
M	Au	<	0.000910	M	Gd	<	0.000310	O	Ni		0.001709	M	Sn	<	0.001300			
O	B	<	0.005600	M	Ge	<	0.002200	M	Os	<	0.000310	O	Sr		0.000444			
O	Ba		0.007865	M	Hf	<	0.000310	O	P	<	0.038000	M	Ta	<	0.000310			
O	Be	<	0.000320	M	Hg	<	0.002200	s	Pb	<		M	Tb	<	0.000610			
M	Bi	<	0.028000	M	Ho	<	0.000310	M	Pd	<	0.000610	M	Te	<	0.000310			
O	Ca		0.019834	M	In	<	0.000310	M	Pr	<	0.000310	M	Th	<	0.000310			
O	Cd	<	0.000630	M	Ir	<	0.000310	M	Pt	<	0.000910	O	Ti		0.005129			
M	Ce		0.004787	O	K		0.008207	M	Rb	<	0.006700	M	Tl	<	0.016000			
M	Co	<	0.000610	M	La	<	0.001900	M	Re	<	0.000310	M	Tm	<	0.000310			
O	Cr	<	0.001500	O	Li	<	0.000110	O	Rh	<	0.007700	M	U	<	0.000310			
M	Cs	<	0.006100	M	Lu	<	0.000310	M	Ru	<	0.001300	M	V	<	0.001600			
M	Cu	<	0.001600	O	Mg		0.003317	O	S	<	0.052000	M	W	<	0.000910			
M	Dy	<	0.000310	O	Mn	<	0.001600	O	Sb	<	0.015000	M	Y	<	0.000310			
M	Er	<	0.000310	M	Mo	<	0.000610	O	Sc	<	0.000630	M	Yb	<	0.000310			

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 207.20 +2 6 $Pb(H_2O)_6^{+2}$

Chemical Compatibility - Soluble in HCl, HF and HNO_3. Avoid H_2SO_4. Stable with most metals and inorganic anions forming insoluble carbonate, borate, sulfate, sulfite, sulfide, phosphate, oxalate, chromate, tannate, iodate, and cyanide in neutral aqueous media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO_3 / LDPE container.

Pb Containing Samples (Preparation and Solution) -Metal (Best dissolved in 1:1 H_2O / HNO_3); Oxides (The many different Pb oxides are soluble in HNO_3 with the exception of PbO_2 which is soluble in HCl or HF); Ores and Alloys (Best attacked using 1:1 H_2O / HNO_3); Organic Matrices (Dry ash and dissolve in dilute HCl).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 208 amu	5 ppt	n/a	192Pt16O, 192Os16O
ICP-OES 168.215 nm	0.03 / 0.003 µg/mL	1	Co
ICP-OES 217.000 nm	0.09 / 0.03 µg/mL	1	W, Ir, Hf, Sb, Th
ICP-OES 220.353 nm	0.04 / 0.006 µg/mL	1	Bi, Nb

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

January 10, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **January 10, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

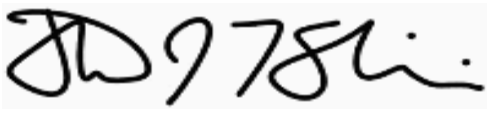
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGZN10
Lot Number:	S2-ZN711249
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Zinc
Starting Material:	Zinc Metal
Starting Material Lot#:	2349
Starting Material Purity:	99.9988%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 9992 ± 30 µg/mL

Density: 1.029 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **9981 ± 56 µg/mL**
ICP Assay NIST SRM 3168a Lot Number: 120629

Assay Method #2 **9987 ± 32 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **10002 ± 32 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.002000	M	Eu	<	0.000500	O	Na		0.008713	M	Se	<	0.048000	s	Zn	<	
O	Al	<	0.011000	O	Fe		0.015467	M	Nb	<	0.000500	O	Si		0.007842	M	Zr	<	0.000500
O	As	<	0.012000	M	Ga	<	0.004900	M	Nd	<	0.000500	M	Sm	<	0.000500				
M	Au	<	0.006500	M	Gd	<	0.000500	O	Ni		0.003049	M	Sn		0.002614				
O	B	<	0.019000	M	Ge	<	0.009100	M	Os	<	0.000500	M	Sr	<	0.000500				
M	Ba	<	0.000500	M	Hf	<	0.000500	O	P	<	0.059000	M	Ta	<	0.000500				
O	Be	<	0.000230	O	Hg	<	0.003800	M	Pb		0.016774	M	Tb	<	0.000500				
M	Bi	<	0.002400	M	Ho	<	0.000500	M	Pd	<	0.001000	M	Te	<	0.017000				
O	Ca		0.052283	M	In	<	0.003500	M	Pr	<	0.000500	M	Th	<	0.000500				
O	Cd		0.000588	M	Ir	<	0.001000	M	Pt	<	0.000500	M	Ti	<	0.002000				
M	Ce	<	0.000500	O	K		0.017209	M	Rb	<	0.002500	M	Tl	<	0.000500				
M	Co		0.000653	M	La	<	0.000500	M	Re	<	0.000500	M	Tm	<	0.000500				
O	Cr		0.001089	O	Li	<	0.000230	M	Rh	<	0.000500	M	U	<	0.000500				
M	Cs	<	0.000500	M	Lu	<	0.000500	M	Ru	<	0.005000	M	V	<	0.000500				
O	Cu		0.001938	O	Mg		0.000871	O	S	<	0.048000	M	W	<	0.001000				
M	Dy	<	0.000500	O	Mn		0.000172	M	Sb	<	0.004300	M	Y	<	0.000500				
M	Er	<	0.000500	M	Mo	<	0.001500	O	Sc	<	0.000900	M	Yb	<	0.000500				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 65.39 +2 4 Zn(OH)(aq)1+
Chemical Compatibility -Stable in HCl, HNO3, H2SO4 ,HF, H3PO4. Avoid basic media forming insoluble carbonate and hydroxide. Stable with most metals and inorganic anions in acidic media.
Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO3 / LDPE container.
Zn Containing Samples (Preparation and Solution) -Metal (soluble in HNO3); Oxides (Soluble in HCl); Ores (Dissolve in HCl / HNO3); Organic based (dry ash at 4500C and dissolve ash in HCl) (sulfuric/peroxide acid digestion)
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 66 amu	7 ppt	N/A	50Ti16O,50Cr16O, 50V16O, 34S16O2, 32S16O18O, 32S17O2, 33S16O17O, 32S34S, 33S2
ICP-OES 202.548 nm	0.004/0.0002 µg/mL	1	Nb, Cu, Co, Hf
ICP-OES 206.200 nm	0.006/0.0006 µg/mL	1	Sb, Ta, Bi, Os
ICP-OES 213.856 nm	0.002/0.0004 µg/mL	1	Ni, Cu, V

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

November 22, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **November 22, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

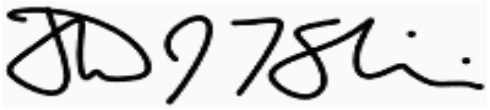
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGSE10
Lot Number:	S2-SE711004
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Selenium
Starting Material:	Se Metal
Starting Material Lot#:	1962
Starting Material Purity:	99.9991%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 9955 ± 61 µg/mL

Density: 1.035 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **9955 ± 50 µg/mL**
ICP Assay NIST SRM 3149 Lot Number: 100901

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.002242	M	Eu	<	0.000373	O	Na		0.013654	s	Se	<		O	Zn		0.002374
M	Al		0.004450	M	Fe		0.008478	O	Nb	<	0.002975	O	Si		0.006249	M	Zr	<	0.001868
O	As	<	0.022040	M	Ga	<	0.000373	M	Nd	<	0.000373	M	Sm	<	0.000373				
M	Au	<	0.000373	M	Gd	<	0.000373	O	Ni		0.001843	M	Sn		0.000847				
O	B	<	0.007714	M	Ge	<	0.002616	M	Os	<	0.000373	M	Sr	<	0.001121				
M	Ba	<	0.001495	M	Hf	<	0.000373	O	P	<	0.022040	M	Ta	<	0.000373				
M	Be	<	0.001495	M	Hg	<	0.002240	M	Pb		0.006358	M	Tb	<	0.006353				
M	Bi	<	0.000373	M	Ho	<	0.000373	M	Pd	<	0.000373	M	Te	<	0.012707				
O	Ca		0.006530	M	In	<	0.000373	M	Pr	<	0.001495	M	Th	<	0.002990				
M	Cd		0.001165	M	Ir	<	0.000373	M	Pt	<	0.000373	M	Ti	<	0.003363				
M	Ce	<	0.000373	O	K		0.001999	M	Rb	<	0.001868	M	Tl		0.008584				
M	Co	<	0.000373	M	La	<	0.001121	M	Re	<	0.000373	M	Tm	<	0.000373				
M	Cr		0.002861	O	Li		0.000062	M	Rh	<	0.000373	M	U	<	0.000373				
M	Cs	<	0.001121	M	Lu	<	0.000373	M	Ru	<	0.001493	M	V	<	0.000747				
M	Cu	<	0.000747	O	Mg		0.001156	O	S		0.024591	M	W	<	0.002242				
M	Dy	<	0.000373	M	Mn	<	0.000373	M	Sb	<	0.002242	M	Y	<	0.000373				
M	Er	<	0.000373	O	Mo	<	0.003195	M	Sc	<	0.001121	M	Yb	<	0.000373				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 78.96 +4 6 H_2SeO_3

Chemical Compatibility -Soluble in HCl, HNO_3,H_3PO_4, H_2SO_4 and HF aqueous matrices and water. It is stable with most inorganic anions but many cationic metals form the insoluble selenites under pH neutral conditions. When fluorinated and/or under acidic conditions precipitation is typically not a problem at moderate to low concentrations.

Stability - 2-100 ppb levels stable for months alone or mixed with other elements at equivalent levels in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO_3 / LDPE container.

Se Containing Samples (Preparation and Solution) -Metal (soluble in HNO_3); Oxides (readily soluble in water); Minerals and alloys (acid digestion with HNO_3or HNO_3 / HF); Organic Matrices (acid digestion with hot concentrated H_2SO_4 accompanied by the careful dropwise addition of H_2O_2 until clear).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 82 amu	200 ppt	N/A	12C35Cl2
ICP-OES 196.026 nm	0.08/0.006 µg/mL	1	Fe
ICP-OES 203.985 nm	0.2/0.05 µg/mL	1	Sb, Ir, Cr, Ta
ICP-OES 206.279 nm	0.3/0.16 µg/mL	1	Cr, Pt

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

November 17, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **November 17, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Supervisor, Product Documentation

Certificate Approved By:

Michael Booth
Director, Technical

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGMO10
Lot Number:	S2-MO706255
Matrix:	H2O tr. NH4OH
Value / Analyte(s):	10 000 µg/mL ea: Molybdenum
Starting Material:	Ammonium Molybdate
Starting Material Lot#:	2361
Starting Material Purity:	99.9893%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10026 ± 47 µg/mL

Density: 1.011 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10032 ± 68 µg/mL**
ICP Assay NIST SRM 3134 Lot Number: 130418

Assay Method #2 **10020 ± 65 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000590	M	Eu	<	0.000300	M	Na		0.008739	M	Se	<	0.008000	M	Zn		0.005942
M	Al		0.005592	M	Fe	<	0.006500	M	Nb	<	0.029000	i	Si	<		M	Zr	<	0.001800
M	As	<	0.002100	M	Ga	<	0.000300	i	Nd	<		M	Sm	<	0.000300				
M	Au	<	0.000300	M	Gd	<	0.000300	M	Ni	<	0.008000	M	Sn	<	0.008900				
M	B	<	0.003300	M	Ge	<	0.000300	M	Os	<	0.000590	M	Sr		0.001747				
M	Ba		0.016778	M	Hf	<	0.001800	i	P	<		M	Ta	<	0.004200				
M	Be	<	0.000890	M	Hg	<	0.003300	M	Pb	<	0.000300	M	Tb	<	0.000300				
M	Bi	<	0.000890	M	Ho	<	0.000300	M	Pd	<	0.001800	M	Te	<	0.021000				
O	Ca		0.062920	M	In	<	0.032000	M	Pr	<	0.013000	M	Th	<	0.000300				
O	Cd	<	0.026000	M	Ir	<	0.000300	M	Pt	<	0.000300	O	Ti	<	0.032000				
M	Ce	<	0.008300	M	K		1.293372	M	Rb		0.045442	M	Tl		0.012584				
M	Co		0.005942	M	La	<	0.000300	M	Re	<	0.000300	M	Tm	<	0.000300				
M	Cr		0.005243	O	Li		0.000594	M	Rh	<	0.000300	M	U	<	0.005300				
M	Cs		0.005243	M	Lu	<	0.000300	M	Ru	<	0.079000	M	V	<	0.000890				
M	Cu		0.022371	M	Mg		0.005592	i	S	<		M	W		0.873900				
M	Dy	<	0.000300	M	Mn	<	0.005900	M	Sb		0.015031	M	Y	<	0.000300				
M	Er	<	0.000300	s	Mo	<		M	Sc	<	0.001200	M	Yb	<	0.000300				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 95.94 +6 6,7,8,9 [MoO4]-2(chemical form as received)

Chemical Compatibility -Mo is received in a NH4OH matrix giving the operator the option of using HCl or HF to stabilize acidic solutions. The [MoO4]-2 is soluble in concentrated HCl [MoOCl5]-2, dilute HF / HNO3 [MoOF5]-2 and basic media [MoO4]-2. Stable at ppm levels with some metals provided it is fluorinated. Do not mix with Alkaline or Rare Earths when HF is present. Stable with most inorganic anions provided it is in the [MoO4]-2 chemical form.

Stability - 2-100 ppb levels stable (alone or mixed with all other metals that are at comparable levels) as the [MoOF5]-2 for months in 1% HNO3 / LDPE container. 1-10,000 ppm single element solutions as the [MoO4]-2 chemically stable for years in 1% NH4OH in a LDPE container.

Mo Containing Samples (Preparation and Solution) -Metal (Soluble in HF / HNO3 or hot dilute HCl); Oxide (soluble in HF or NH4OH) ; Organic Matrices (Dry ash at 450EC in Pt0 and dissolve oxide with HF or HCl).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 95 amu	3 ppt	n/a	40Ar39K16O,79Br16O,190Os2+,190Pt2+
ICP-OES 202.030 nm	0.008 / 0.0002 µg/mL	1	Os, Hf
ICP-OES 203.844 nm	0.012 / 0.002 µg/mL	1	
ICP-OES 204.598 nm	0.012 / 0.001 µg/mL	1	Ir, Ta

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

July 04, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **July 04, 2025**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Certificate of Analysis

Refine your results. Redefine your industry.

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Christiansburg, VA 24073 USA
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P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGTL10
Lot Number:	T2-TL714687
Matrix:	5% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Thallium
Starting Material:	TlNO3
Starting Material Lot#:	2118
Starting Material Purity:	99.9998%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10030 ± 42 µg/mL

Density: 1.036 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10040 ± 43 µg/mL**
ICP Assay NIST SRM 3158 Lot Number: 151215

Assay Method #2 **10010 ± 65 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL(

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000200	M	Eu	<	0.000200	O	Na		0.002489	M	Se	<	0.011019	O	Zn		0.002298
O	Al	<	0.004184	O	Fe	<	0.002824	M	Nb	<	0.000200	O	Si		0.003760	M	Zr	<	0.000200
M	As	<	0.002003	M	Ga	<	0.000200	M	Nd	<	0.000200	M	Sm	<	0.000200				
O	Au	<	0.002824	M	Gd	<	0.000200	M	Ni		0.001724	M	Sn	<	0.000601				
O	B	<	0.004184	M	Ge	<	0.000801	M	Os	<	0.000198	O	Sr	<	0.000313				
M	Ba	<	0.000400	M	Hf	<	0.000200	O	P	<	0.010460	M	Ta	<	0.000200				
O	Be	<	0.000104	M	Hg	<	0.000794	M	Pb		0.000811	M	Tb	<	0.000200				
M	Bi	<	0.005209	M	Ho	<	0.000200	M	Pd	<	0.000400	M	Te	<	0.005008				
O	Ca		0.002436	M	In	<	0.000200	M	Pr	<	0.000200	M	Th	<	0.000200				
M	Cd		0.001318	M	Ir	<	0.000198	M	Pt	<	0.000801	O	Ti	<	0.001255				
M	Ce	<	0.000200	O	K		0.006175	M	Rb	<	0.000200	s	Tl	<					
M	Co	<	0.000601	M	La	<	0.000200	M	Re	<	0.000200	M	Tm	<	0.000200				
M	Cr	<	0.000801	O	Li	<	0.000177	M	Rh	<	0.000200	M	U	<	0.000200				
M	Cs	<	0.003606	M	Lu	<	0.000200	M	Ru	<	0.000397	M	V	<	0.002203				
M	Cu	<	0.001001	O	Mg		0.000529	O	S	<	0.015690	M	W	<	0.000601				
M	Dy	<	0.000200	M	Mn	<	0.000801	M	Sb	<	0.000400	M	Y	<	0.000200				
M	Er	<	0.000200	M	Mo	<	0.001202	O	Sc	<	0.000711	M	Yb	<	0.000200				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 204.38 +1 6 Tl(H2O)61+
Chemical Compatibility - Soluble in HCl, HNO3, and H2SO4. Stable with most metals and inorganic anions. The sulfite, thiocyanate and oxalate are moderately soluble; the phosphate and arsenite are slightly soluble and the sulfide is insoluble.
Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO3 / LDPE container.
Tl Containing Samples)Preparation and Solution) -Metal (Best dissolved in HNO3 which forms chiefly the Tl1+ ion.); Oxide (The thallous oxide is readily soluble in water. The thallic oxide requires high levels of acid); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Sulfuric/peroxide digestion or dry ash and dissolution in HCl).
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 205 amu	2 ppt	N/A	189Os16O
ICP-OES 190.864 nm	0.04 / 0.004 µg/mL	1	V, Ti
ICP-OES 276.787 nm	0.1 / 0.01 µg/mL	1	Ta, V, Fe, Cr
ICP-OES 351.924 nm	0.2 / 0.02 µg/mL	1	Th, Ce, Zr

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

February 08, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **February 08, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

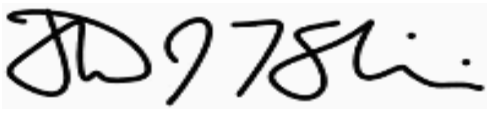
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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F: 540-585-3012
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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGCD10
Lot Number:	S2-CD710508
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Cadmium
Starting Material:	Cd Metal
Starting Material Lot#:	1953
Starting Material Purity:	99.9995%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10008 ± 30 µg/mL

Density: 1.029 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10010 ± 32 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #2 **10011 ± 30 µg/mL**
ICP Assay NIST SRM 3108 Lot Number: 130116

Assay Method #3 **10003 ± 30 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O	Ag	<	0.003200	O	Eu	<	0.002500	O	Na		0.005499	M	Se	<	0.005700	O	Zn	<	0.001100
O	Al		0.008903	O	Fe		0.000602	M	Nb	<	0.000400	O	Si		0.016758	O	Zr	<	0.002600
M	As	<	0.003600	M	Ga	<	0.001200	M	Nd	<	0.000800	M	Sm	<	0.000400				
M	Au	<	0.000810	M	Gd	<	0.000400	M	Ni	<	0.003600	M	Sn	<	0.003200				
O	B		0.004189	O	Ge	<	0.012000	M	Os	<	0.000810	O	Sr	<	0.000330				
M	Ba	<	0.002400	M	Hf	<	0.000400	O	P	<	0.022000	M	Ta	<	0.000800				
M	Be	<	0.000400	M	Hg	<	0.001700	M	Pb	<	0.002400	M	Tb	<	0.000400				
M	Bi	<	0.000400	M	Ho	<	0.000400	M	Pd	<	0.001200	M	Te	<	0.008000				
O	Ca		0.011259	O	In	<	0.013000	M	Pr	<	0.000400	M	Th	<	0.000400				
s	Cd	<		M	Ir	<	0.000410	M	Pt	<	0.000400	O	Ti		0.000602				
M	Ce	<	0.000400	O	K		0.005237	M	Rb	<	0.004400	M	Tl		0.000523				
M	Co	<	0.000400	M	La	<	0.000400	M	Re	<	0.000400	M	Tm	<	0.000400				
O	Cr	<	0.005100	O	Li	<	0.000054	M	Rh	<	0.000400	M	U	<	0.000400				
M	Cs	<	0.002400	M	Lu	<	0.000400	M	Ru	<	0.002500	M	V	<	0.002000				
O	Cu	<	0.004800	O	Mg		0.000288	O	S	<	0.022000	M	W	<	0.000400				
M	Dy	<	0.000400	O	Mn	<	0.000860	O	Sb	<	0.018000	M	Y	<	0.000400				
M	Er	<	0.000400	M	Mo	<	0.001600	O	Sc	<	0.000430	M	Yb	<	0.000400				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 112.41 +2 4 Cd2(OH) (aq)3+ and Cd(OH)(aq)

Chemical Compatibility -Stable in HCl, HNO3, H2SO4 , and HF. Avoid basic media forming insoluble carbonate and hydroxide.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5 % HNO3 / LDPE container.

Cd Containing Samples (Preparation and Solution) -Metal (soluble in HNO3); Oxides (soluble in HCl or HNO3); Ores (dissolve in HCl /HNO3 then take to fumes with H2SO4. The silica and lead sulfate are filtered off after the addition of water); Organic based (dry ash at 450°C and dissolve ash in HCl), (sulfuric / peroxide acid digestion).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 111 amu	11 ppt	n/a	95Mo16O
ICP-OES 214.438 nm	0.003 / 0.0003 µg/mL	1	Pt, Ir
ICP-OES 226.502 nm	0.003 / 0.0003 µg/mL	1	Ir
ICP-OES 228.802 nm	0.003 / 0.0003 µg/mL	1	Co, Ir, As, Pt

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

November 01, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **November 01, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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Refine your results. Redefine your industry.

Certificate of Analysis

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F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGMN10
Lot Number:	S2-MN704240
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Manganese
Starting Material:	Mn Metal
Starting Material Lot#:	2275
Starting Material Purity:	99.9909%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10011 ± 30 µg/mL

Density: 1.035 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **9989 ± 69 µg/mL**
ICP Assay NIST SRM 3132 Lot Number: 050429

Assay Method #2 **10011 ± 25 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **10024 ± 47 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.001500	M	Eu	<	0.000730	O	Na		0.176097	M	Se	<	0.006600	M	Zn		0.009925
O	Al		0.004322	M	Fe	<	0.650000	M	Nb	<	0.000730	O	Si		0.097654	M	Zr	<	0.000730
M	As	<	0.008000	M	Ga		0.004322	M	Nd	<	0.001500	M	Sm	<	0.000730				
M	Au	<	0.000730	M	Gd	<	0.000730	M	Ni		0.024013	M	Sn	<	0.002200				
M	B		0.068838	M	Ge	<	0.004400	M	Os	<	0.000730	O	Sr		0.000928				
M	Ba	<	0.001500	M	Hf	<	0.000730	i	P	<		M	Ta	<	0.000730				
M	Be	<	0.000730	M	Hg	<	0.002200	M	Pb		0.007364	M	Tb	<	0.000730				
M	Bi	<	0.003000	M	Ho	<	0.000730	M	Pd	<	0.000730	M	Te	<	0.019000				
O	Ca		0.062434	M	In	<	0.003000	M	Pr	<	0.000730	M	Th	<	0.000730				
M	Cd	<	0.001500	M	Ir	<	0.000730	M	Pt	<	0.000730	O	Ti	<	0.006500				
M	Ce	<	0.007300	O	K		0.006403	M	Rb	<	0.006600	M	Tl	<	0.000730				
O	Co		0.014728	M	La	<	0.003000	M	Re	<	0.000730	M	Tm	<	0.000730				
O	Cr		0.272151	O	Li		0.000416	M	Rh	<	0.003000	M	U	<	0.001500				
M	Cs	<	0.000730	M	Lu	<	0.000730	M	Ru	<	0.004400	M	V	<	0.000730				
O	Cu		0.007684	O	Mg		0.320177	i	S	<		M	W	<	0.004400				
M	Dy	<	0.001500	s	Mn	<		M	Sb	<	0.021000	O	Y		0.001360				
M	Er	<	0.001500	M	Mo		0.010245	O	Sc	<	0.004100	M	Yb	<	0.000730				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 54.94 +2 6 $Mn(H_2O)_6^{2+}$

Chemical Compatibility -Stable in HCl, HNO_3, H_2SO_4 ,HF, H_3PO_4. Avoid basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5 % HNO_3/LDPE container.

Mn Containing Samples (Preparation and Solution) -Metal (Soluble in dilute acids); Oxides (Soluble in dilute acids); Ores (Dissolve with HCl. If silica is present add HF and then fume off silica by adding H_2SO_4 and heat to SO_3 fumes - dense white fumes).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 55 amu	10 ppt	n/a	40Ar14N1H,39K16O,37Cl18O,40Ar15N,38Ar17O,36Ar18O1H ,38Ar16O1H,37Cl17O1H,23Na32S
ICP-OES 257.610 nm	0.0014 / 0.00002 µg/mL	1	Ce, W, Re
ICP-OES 259.373 nm	0.0016 / 0.00002 µg/mL	1	U, Ta, Mo, Fe, Nb
ICP-OES 260.569 nm	0.0021 / 0.00002 µg/mL	1	Co

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

April 17, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **April 17, 2025**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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CERTIFICATE OF ANALYSIS

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGSB10
Lot Number:	R2-SB688559
Matrix:	3% (v/v) HNO3 3% (w/v) tartaric acid
Value / Analyte(s):	10 000 µg/mL ea: Antimony
Starting Material:	Antimony Metal
Starting Material Lot#:	1857
Starting Material Purity:	99.9894%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10003 ± 47 µg/mL

Density: 1.061 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10003 ± 41 µg/mL**
ICP Assay NIST SRM 3102a Lot Number: 140911

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

$CRM/RM\ Expanded\ Uncertainty\ (\pm) = U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

$CRM/RM\ Expanded\ Uncertainty\ (\pm) = U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000200	M	Eu	<	0.000300	O	Na		0.140000	M	Se	<	0.007300	O	Zn	0.005000
M	Al		0.003200	O	Fe		0.060000	M	Nb	<	0.000100	O	Si		0.150000	O	Zr	< 0.006300
M	As	<	0.004400	M	Ga	<	0.000400	M	Nd	<	0.000100	M	Sm	<	0.000100			
M	Au	<	0.000210	M	Gd	<	0.000100	O	Ni		0.004800	M	Sn	<	0.001800			
M	B	<	0.011000	M	Ge	<	0.000600	M	Os	<	0.000110	O	Sr		0.000750			
O	Ba	<	0.004900	M	Hf	<	0.000100	O	P		0.540000	M	Ta		0.003300			
M	Be	<	0.000400	M	Hg	<	0.000110	M	Pb	<	0.000400	M	Tb	<	0.000100			
M	Bi	<	0.000200	M	Ho	<	0.000100	M	Pd	<	0.000210	M	Te	<	0.000600			
O	Ca		0.110000	M	In	<	0.000100	M	Pr	<	0.001600	M	Th	<	0.000100			
M	Cd	<	0.000200	M	Ir	<	0.000110	M	Pt	<	0.000600	M	Ti	<	0.002800			
M	Ce		0.006500	O	K		0.020000	M	Rb	<	0.001000	M	Tl	<	0.000100			
M	Co	<	0.000200	O	La	<	0.016000	M	Re	<	0.000100	M	Tm	<	0.000100			
M	Cr		0.006900	O	Li	<	0.000430	M	Rh	<	0.000300	M	U	<	0.000100			
M	Cs	<	0.000200	M	Lu	<	0.000100	M	Ru	<	0.000310	M	V	<	0.000800			
M	Cu	<	0.000600	O	Mg		0.021000	n	S	<		M	W	<	0.000200			
M	Dy	<	0.000100	O	Mn		0.001900	s	Sb	<		M	Y	<	0.000100			
M	Er	<	0.000100	M	Mo	<	0.000500	O	Sc	<	0.002300	M	Yb	<	0.000100			

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 121.75 +3 6 Sb(O)C4H4O6-1

Chemical Compatibility -Stable in conc. HCl, dilute or conc. HF. Stable in dilute HNO3 as the fluoride or tartrate complex. Avoid basic media. Stable with most metals and inorganic anions in acidic media as the tartrate provided the acidity is not too high or the acid is oxidizing causing loss of the stabilizing tartrate ion. The fluoride complex of antimony is stable in strong acid but you should only mix with other metals that are fluorinated.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-2% HNO3 / LDPE container.

Sb Containing Samples (Preparation and Solution) -Metal and alloys (Soluble in H2O / HF / HNO3 mixture); Oxides (Soluble in HCl and tartaric acid or H2O / HF / HNO3 mixtures); Ores (fusion with Na2CO3 in Pt0 followed by dissolving the fuseate in a H2O / HF / HNO3 mixture); Organic based (sulfuric acid / hydrogen peroxide digestion)

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 121 amu	5 ppt	N/A	105Pd16O, 89Y16O2
ICP-OES 206.833 nm	0.03/0.003 µg/mL	1	Ta, Cr, Ge, Hf
ICP-OES 217.581 nm	0.05/0.005 µg/mL	1	Nb, W, Re, Fe
ICP-OES 231.147 nm	0.06/0.006 µg/mL	1	Ni, Co, Pt

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

April 30, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **April 30, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGAS10
Lot Number:	T2-AS718260
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Arsenic
Starting Material:	As Metal
Starting Material Lot#:	2208
Starting Material Purity:	99.9971%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10060 ± 40 µg/mL

Density: 1.037 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10062 ± 46 µg/mL**
ICP Assay NIST SRM 3103a Lot Number: 100818

Assay Method #2 **10055 ± 76 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	< 0.003200	M	Eu	< 0.000530	O	Na	0.032544	M	Se	< 0.006300	O	Zn	0.001952			
M	Al	0.007593	O	Fe	0.001475	O	Nb	< 0.012000	O	Si	0.238658	O	Zr	< 0.004100			
s	As	<	M	Ga	< 0.000530	M	Nd	< 0.000530	M	Sm	< 0.000530						
M	Au	< 0.003100	M	Gd	< 0.000530	M	Ni	< 0.002100	M	Sn	< 0.000530						
M	B	0.026035	M	Ge	< 0.001600	M	Os	< 0.000520	M	Sr	< 0.000530						
M	Ba	< 0.000530	M	Hf	< 0.000530	O	P	< 0.043000	M	Ta	< 0.000530						
O	Be	< 0.000360	M	Hg	< 0.001600	M	Pb	< 0.002100	M	Tb	< 0.000530						
M	Bi	< 0.000530	M	Ho	< 0.000530	M	Pd	< 0.001100	M	Te	< 0.004700						
O	Ca	0.004339	M	In	< 0.023000	M	Pr	< 0.005300	M	Th	< 0.000530						
M	Cd	< 0.001100	M	Ir	< 0.000520	M	Pt	< 0.000530	O	Ti	< 0.002300						
M	Ce	< 0.000530	O	K	0.002061	M	Rb	< 0.000530	M	Tl	< 0.000530						
M	Co	< 0.000530	M	La	< 0.001100	M	Re	< 0.000530	M	Tm	< 0.000530						
O	Cr	< 0.001800	O	Li	< 0.000120	M	Rh	< 0.000530	M	U	< 0.000530						
M	Cs	< 0.005300	M	Lu	< 0.000530	M	Ru	< 0.000520	M	V	< 0.002700						
M	Cu	< 0.001600	O	Mg	0.000154	O	S	0.028205	M	W	< 0.012000						
M	Dy	< 0.000530	O	Mn	0.000154	M	Sb	< 0.000530	M	Y	< 0.000530						
M	Er	< 0.000530	M	Mo	< 0.000530	O	Sc	< 0.001700	M	Yb	< 0.000530						

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 74.92 ; mix of +3 and +5 ; 6 ; H3AsO4 and HAsO2

Chemical Compatibility - Arsenic has no cationic chemistry. It is soluble in HCl, HNO3,H3PO4, H2SO4 and HF aqueous matrices water and NH4OH . It is stable with most inorganic anions (forms arsenate when boiled with chromate) but many cationic metals form the insoluble arsenates under pH neutral conditions. When fluorinated and / or under acidic conditions arsenate formation is typically not a problem at moderate to low concentrations.

Stability - 2-100 ppb levels stable for months alone or mixed with other elements at equivalent levels in 1% HNO3 / LDPE container.

As Containing Samples (Preparation and Solution) - Metal (soluble in 1:1 H2O / HNO3); Oxides (the oxide exists in crystalline and amorphous forms where the amorphic form is more water soluble. The oxides typically dissolve in dilute acidic solutions when boiled); Minerals (one gram of powered sample is fused in a Ni crucible with 10 grams of a 1:1 mix of K2CO3 and KNO3 and the melt extracted with hot water); Organic Matrices (0.2 to 0.5 grams of sample are fused with 15 grams of a 1:1 Na2CO3 / Na2O2 mix in a Ni crucible. The fuseate is extracted with water and acidified with HNO3).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 75 amu	20 ppt	N/A	40Ar35Cl, 59Co16O, 36Ar38Ar1H,8Ar37Cl,Ar39K, 150Nd2+,150Sm2+
ICP-OES 189.042 nm	0.05/0.005 µg/mL	1	Cr
ICP-OES 193.696 nm	0.1/0.01 µg/mL	1	V, Ge
ICP-OES 228.812 nm	0.1/0.01 µg/mL	1	Cd, Pt, Ir, Co

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

May 10, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **May 10, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Supervisor, Product Documentation

Certificate Approved By:

Michael Booth
Director, Technical

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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CERTIFICATE OF ANALYSIS

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1.0 ACCREDITATION / REGISTRATION

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ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGBA10
Lot Number:	R2-BA692576
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Barium
Starting Material:	Barium Nitrate
Starting Material Lot#:	1969
Starting Material Purity:	99.9982%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10022 ± 30 µg/mL

Density: 1.025 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1	**10018 ± 50 µg/mL** ICP Assay NIST SRM 3104a Lot Number: 140909
Assay Method #2	**10023 ± 31 µg/mL** Gravimetric NIST SRM Lot Number: See Sec. 4.2
Assay Method #3	**10023 ± 30 µg/mL** Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000410	O	Eu	<	0.005200	O	Na		0.004610	M	Se	<	0.003700	O	Zn		0.000658
M	Al	<	0.003100	O	Fe		0.015707	M	Nb	<	0.000210	O	Si		0.005573	M	Zr	<	0.001300
M	As	<	0.001300	M	Ga	<	0.000210	M	Nd	<	0.000210	O	Sm	<	0.021000				
M	Au	<	0.001300	M	Gd	<	0.000210	M	Ni	<	0.000810	M	Sn	<	0.000410				
O	B	<	0.005200	M	Ge	<	0.002500	M	Os	<	0.000410	O	Sr		0.003850				
s	Ba	<		M	Hf	<	0.000810	O	P	<	0.026000	M	Ta	<	0.000410				
O	Be	<	0.000320	M	Hg	<	0.000210	M	Pb	<	0.002300	M	Tb	<	0.000210				
M	Bi	<	0.000210	M	Ho	<	0.000210	M	Pd	<	0.000210	M	Te	<	0.001900				
O	Ca		0.007093	M	In	<	0.000210	M	Pr	<	0.000210	M	Th	<	0.000210				
M	Cd	<	0.000210	M	Ir	<	0.000210	M	Pt	<	0.000210	M	Ti	<	0.002100				
M	Ce	<	0.001300	O	K		0.035467	M	Rb	<	0.002100	M	Tl	<	0.000210				
M	Co	<	0.000410	O	La	<	0.005200	M	Re	<	0.000210	M	Tm	<	0.000410				
M	Cr	<	0.001700	O	Li	<	0.000630	M	Rh	<	0.000210	M	U	<	0.000210				
M	Cs	<	0.003300	M	Lu	<	0.001700	M	Ru	<	0.000210	O	V	<	0.005200				
M	Cu	<	0.001300	O	Mg		0.000861	O	S		0.268539	M	W	<	0.000410				
M	Dy	<	0.000210	M	Mn	<	0.000410	M	Sb	<	0.001300	O	Y	<	0.005200				
M	Er	<	0.001300	M	Mo	<	0.000410	M	Sc	<	0.000410	M	Yb	<	0.001300				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 137.33 +2 6 $Ba(H_2O)_6^{+2}$

Chemical Compatibility - Soluble in HCl, and HNO_3. Avoid H_2SO_4, HF and neutral to basic media. Stable with most metals and inorganic anions forming insoluble silicate, carbonate, hydroxide, oxide, fluoride, sulfate, oxalate, chromate, arsenate, iodate, molybdate, sulfite and tungstate in neutral aqueous media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1 -10,000 ppm solutions chemically stable for years in 1-3.5% HNO_3 / LDPE container.

Ba Containing Samples (Preparation and Solution) -Metal(is best dissolved in diluted HNO_3); Ores(Carbonate fusion in Pt0 followed by HCl dissolution. If sulfate is present dissolve the fuseate using HCl / tartaric acid to prevent $BaSO_4$ precipitate); Organic Matrices (dry ash and dissolve in dilute HCl.)

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 138 amu	1 ppt	N/A	122Sn16O, 122Te16O
ICP-OES 230.424 nm	0.004/0.0005 µg/mL	1	Mo, Ir, Co
ICP-OES 233.527 nm	0.004/0.0003 µg/mL	1	
ICP-OES 455.403 nm	0.002/0.0001 µg/mL	1	Zr, U

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

May 11, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **May 11, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
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CERTIFICATE OF ANALYSIS

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1.0 ACCREDITATION / REGISTRATION

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ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGBE10
Lot Number:	R2-BE692992
Matrix:	6% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Beryllium
Starting Material:	Beryllium Acetate
Starting Material Lot#:	2281
Starting Material Purity:	99.9998%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10032 ± 41 µg/mL

Density: 1.128 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10042 ± 67 µg/mL**
ICP Assay NIST SRM 3105a Lot Number: 090514

Assay Method #2 **10025 ± 51 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	< 0.001100	M	Eu	< 0.000270	O	Na	0.040962	M	Se	< 0.005000	M	Zn	0.013054			
O	Al	0.016205	O	Fe	0.015754	M	Nb	< 0.000270	O	Si	0.024307	O	Zr	< 0.001900			
M	As	< 0.002900	M	Ga	< 0.000270	M	Nd	< 0.000270	M	Sm	< 0.000270						
M	Au	< 0.000520	M	Gd	< 0.000270	M	Ni	< 0.003700	M	Sn	< 0.000790						
M	B	< 0.091000	M	Ge	< 0.000270	M	Os	< 0.000260	M	Sr	0.000630						
M	Ba	0.002700	M	Hf	< 0.000270	O	P	< 0.066000	M	Ta	< 0.000270						
s	Be	<	M	Hg	< 0.000520	M	Pb	< 0.000270	M	Tb	< 0.000270						
M	Bi	< 0.000530	M	Ho	< 0.000270	M	Pd	< 0.000520	M	Te	< 0.003700						
O	Ca	0.072022	M	In	< 0.000790	M	Pr	< 0.000270	M	Th	< 0.000270						
M	Cd	< 0.000790	M	Ir	< 0.000260	M	Pt	< 0.000270	O	Ti	< 0.000400						
M	Ce	< 0.000270	O	K	0.045014	M	Rb	< 0.000270	M	Tl	< 0.000790						
O	Co	< 0.003200	M	La	< 0.000270	M	Re	< 0.000270	M	Tm	< 0.000270						
O	Cr	< 0.001800	O	Li	< 0.000660	M	Rh	< 0.001100	M	U	< 0.000270						
M	Cs	0.001440	M	Lu	< 0.000270	M	Ru	< 0.000260	M	V	< 0.000790						
M	Cu	< 0.002100	O	Mg	0.016205	i	S	<	M	W	< 0.000530						
M	Dy	< 0.000270	M	Mn	0.001215	M	Sb	< 0.000270	M	Y	< 0.000270						
M	Er	< 0.000270	M	Mo	< 0.000530	O	Sc	< 0.000930	M	Yb	< 0.000270						

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 9.01 +2 4 $Be(H_2O)_4^{+2}$

Chemical Compatibility -Soluble in HCl, HNO_3, H_2SO_4 and HF aqueous matrices. Stable with all metals and inorganic anions.

Stability - 2-100 ppb levels stable for months in 1 % HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 5-10 % HNO_3 / LDPE container.

Be Containing Samples (Preparation and Solution) - Meta l(is best dissolved in diluted H_2SO_4); BeO (boiling nitric, hydrochloric, or sulfuric acids or KHSO4 fusion); Ores (H_2SO_4/HF digestion or carbonate fusion in Pt0); Organic Matrices (sulfuric/peroxide digestion or nitric/sulfuric/perchloric acid decomposition, or dry ash and dissolution according to the BeO procedure above).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 9 amu	4 ppt	N/A	
ICP-OES 234.861 nm	0.0003/0.00016 µg/mL	1	Fe, Ta, Mo
ICP-OES 313.042 nm	0.0003/0.00009 µg/mL	1	V, Ce, U
ICP-OES 313.107 nm	0.0007/0.0005 µg/mL	1	Ce, Th, Tm

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION, PERIOD OF VALIDITY AND REVISION HISTORY

11.1 Certification Issue Date

May 13, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **May 13, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

11.4 Revision Status

- Revision 1 - Revised on Thursday, Jan 14, 2021 by utruong. Revision was made for the following reason: Modified Section 7 Chemical Form in Solution.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES
300 Technology Drive
Christiansburg, VA 24073 · USA
inorganicventures.com

CERTIFICATE OF ANALYSIS

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info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGCO10
Lot Number:	R2-CO695285
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Cobalt
Starting Material:	Co Metal
Starting Material Lot#:	2326
Starting Material Purity:	99.9934%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10012 ± 31 µg/mL

Density: 1.056 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10031 ± 67 µg/mL**
ICP Assay NIST SRM 3113 Lot Number: 190630

Assay Method #2 **10019 ± 32 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **10000 ± 35 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	0.014660	M	Eu	<	0.000590	O	Na	0.007534	M	Se	<	0.019000	M	Zn	0.003461	
M	Al	< 0.024000	M	Fe	0.050905	M	Nb	<	0.000590	O	Si	0.075340	M	Zr	<	0.001200	
i	As	<	M	Ga	<	0.000590	M	Nd	<	0.000590	M	Sm	<	0.000590			
M	Au	< 0.004100	M	Gd	<	0.000590	O	Ni	0.427608	M	Sn	<	0.001200				
M	B	< 0.031000	M	Ge	<	0.003000	M	Os	<	0.000590	O	Sr	<	0.000260			
M	Ba	< 0.000590	M	Hf	<	0.000590	n	P	<		M	Ta	<	0.001200			
O	Be	< 0.001300	M	Hg	<	0.001800	M	Pb	0.003257	M	Tb	<	0.000590				
M	Bi	< 0.003000	M	Ho	<	0.000590	M	Pd	<	0.000590	M	Te	<	0.005300			
O	Ca	0.010588	M	In	<	0.001200	M	Pr	<	0.000590	M	Th	<	0.000590			
M	Cd	< 0.004700	M	Ir	<	0.001200	M	Pt	<	0.002400	M	Ti	<	0.014000			
M	Ce	< 0.000590	O	K	0.008144	M	Rb	<	0.000590	M	Tl	0.002647					
s	Co	<	M	La	<	0.000590	M	Re	<	0.000590	M	Tm	<	0.000590			
M	Cr	< 0.021000	O	Li	<	0.000130	M	Rh	<	0.000590	M	U	<	0.000590			
M	Cs	< 0.002400	M	Lu	<	0.000590	M	Ru	<	0.007100	O	V	<	0.000880			
M	Cu	0.189369	O	Mg	0.001893	n	S	<		M	W	<	0.000590				
M	Dy	< 0.000590	M	Mn	<	0.001800	M	Sb	<	0.003600	M	Y	<	0.000590			
M	Er	< 0.000590	M	Mo	<	0.002400	O	Sc	<	0.001600	M	Yb	<	0.000590			

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 58.93 +2 6 $Co(H_2O)_6^{2+}$

Chemical Compatibility -Stable in HCl, HNO_3, H_2SO_4 ,HF, H_3PO_4. Avoid basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO_3 / LDPE container.

Co Containing Samples (Preparation and Solution) - Metal (soluble in HNO_3); Oxides (Soluble in HCl); Ores (dissolve in HCl / HNO_3).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 59 amu	2 ppt	n/a	42Ca16O1H , 40Ar18O1H , 36Ar23Na, 43Ca16O, 24Mg35Cl
ICP-OES 228.616 nm	0.01/0.001 µg/mL	1	
ICP-OES 237.862 nm	0.01/0.002 µg/mL	1	W, Re, Al, Ta
ICP-OES 238.892 nm	0.01/0.002 µg/mL	1	Fe, W, Ta

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

August 04, 2020

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **August 04, 2024**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGAG10
Lot Number:	S2-AG712977
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Silver
Starting Material:	Ag Shot
Starting Material Lot#:	2289
Starting Material Purity:	99.9951%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10051 ± 30 µg/mL

Density: 1.056 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1	**10051 ± 52 µg/mL** ICP Assay NIST SRM 3151 Lot Number: 160729
Assay Method #2	**10051 ± 19 µg/mL** Volhard NIST SRM 999c Lot Number: 999c
Assay Method #3	**10049 ± 31 µg/mL** Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

s	Ag	<		M	Eu	<	0.000260	O	Na		0.003811	M	Se	<	0.003900	O	Zn		0.048146
M	Al		0.002688	O	Fe		0.006419	M	Nb	<	0.000260	O	Si		0.005215	M	Zr	<	0.000260
M	As	<	0.001100	M	Ga	<	0.000260	M	Nd	<	0.000260	M	Sm	<	0.000260				
M	Au	<	0.000260	M	Gd	<	0.000260	O	Ni		0.001765	M	Sn		0.020060				
O	B	<	0.004300	M	Ge	<	0.002300	M	Os	<	0.001100	O	Sr	<	0.000110				
M	Ba	<	0.000520	M	Hf	<	0.000260	O	P	<	0.017000	M	Ta	<	0.000260				
O	Be	<	0.001100	M	Hg	<	0.000770	M	Pb	<	0.003600	M	Tb	<	0.000260				
M	Bi		0.004814	M	Ho	<	0.000260	M	Pd		0.044134	M	Te	<	0.009000				
O	Ca		0.005215	M	In		0.003691	M	Pr	<	0.000260	M	Th	<	0.000260				
M	Cd	<	0.000260	M	Ir	<	0.000520	M	Pt	<	0.001100	O	Ti	<	0.000440				
M	Ce	<	0.002100	O	K	<	0.008700	M	Rb	<	0.001100	M	Tl	<	0.004100				
O	Co	<	0.000330	M	La	<	0.000260	M	Re	<	0.000260	M	Tm	<	0.000260				
O	Cr	<	0.002500	O	Li	<	0.000110	M	Rh	<	0.000520	M	U	<	0.000260				
M	Cs	<	0.002600	M	Lu	<	0.000260	M	Ru	<	0.000260	M	V	<	0.000260				
O	Cu		0.357085	O	Mg		0.001203	O	S	<	0.017000	M	W	<	0.000260				
M	Dy	<	0.000260	O	Mn	<	0.000220	M	Sb	<	0.014000	M	Y	<	0.000260				
M	Er	<	0.000260	M	Mo	<	0.000260	O	Sc	<	0.000220	M	Yb	<	0.000260				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 107.87 +1 6 $Ag(H_2O)_6^+$

Chemical Compatibility -Stable in HNO_3, and HF. Avoid basic media. Ag forms more insoluble salts than any other metal. It also is subject to photochemical reduction to the metal in HCl media although 10 µg/mL solutions in 10% HCl [$AgCl_{x1-x}$] are commonly used in the analytical laboratory. The most common solubility problems exist with arsenate, arsenite , bromide, chloride, iodide, carbonate , chromate, cyanide, iodate, oxalate, oxide, sulfate, sulfide, tartrate, and thiocyanate in aqueous media. The addition of nitric acid renders many of these salts soluble.

Stability - 2-100 ppb levels stable for 75+ days when mixed with equivalent levels of all other elements including the precious metals (where chloride is present) when in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO_3 / LDPE container.

Ag Containing Samples (Preparation and Solution) -Metal (Soluble in HNO_3); Oxides (Soluble in HNO_3); Ores (Digestion with conc. HNO_3).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 107 amu	1 ppt	N/A	91Zr16O
ICP-OES 243.779 nm	0.12/0.01 µg/mL	1	Mn, Th, Ni, Rh
ICP-OES 328.068 nm	0.007/0.0007 µg/mL	1	Ce, Rh, V
ICP-OES 338.289 nm	0.013/0.001 µg/mL	1	Ce, Cr, Th

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

December 28, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **December 28, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Supervisor, Product Documentation

Certificate Approved By:

Michael Booth
Director, Technical

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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Refine your results. Redefine your industry.

Certificate of Analysis

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F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGCR(3)10
Lot Number:	S2-CR709784
Matrix:	10% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Chromium
Starting Material:	Cr Metal
Starting Material Lot#:	2328
Starting Material Purity:	99.9951%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10027 ± 41 µg/mL

Density: 1.072 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10027 ± 40 µg/mL**
ICP Assay NIST SRM 3112a Lot Number: 170630

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\ (u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.001700	M	Eu	<	0.003400	O	Na		0.090372	M	Se	<	0.012000	O	Zn	<	0.006100
M	Al		0.034916	O	Fe		0.246471	M	Nb	<	0.017000	n	Si	<		M	Zr	<	0.007800
M	As	<	0.028000	O	Ga	<	0.013000	M	Nd	<	0.013000	M	Sm	<	0.006900				
M	Au	<	0.001700	M	Gd	<	0.000560	M	Ni		0.016020	M	Sn		0.006983				
O	B	<	0.025000	O	Ge	<	0.014000	M	Os	<	0.000560	M	Sr		0.006367				
M	Ba	<	0.008900	M	Hf	<	0.000560	i	P	<		M	Ta	<	0.000560				
M	Be	<	0.013000	M	Hg	<	0.001700	M	Pb		0.010064	M	Tb	<	0.000560				
M	Bi	<	0.002300	M	Ho	<	0.000560	M	Pd	<	0.021000	M	Te	<	0.010000				
O	Ca		0.075995	M	In	<	0.000560	M	Pr	<	0.001700	M	Th	<	0.000560				
M	Cd	<	0.000560	M	Ir	<	0.000560	M	Pt	<	0.001200	O	Ti		0.013555				
M	Ce	<	0.001200	O	K		0.043132	i	Rb	<		M	Tl	<	0.000560				
M	Co	<	0.002600	M	La	<	0.001200	M	Re	<	0.001200	O	Tm	<	0.013000				
s	Cr	<		O	Li		0.000390	M	Rh	<	0.095000	M	U	<	0.000560				
M	Cs	<	0.007800	M	Lu	<	0.000560	M	Ru	<	0.087000	O	V		0.014993				
O	Cu		0.007599	O	Mg		0.000883	i	S	<		M	W	<	0.049000				
M	Dy	<	0.000560	M	Mn		0.008626	M	Sb	<	0.003400	M	Y	<	0.001700				
M	Er	<	0.019000	M	Mo	<	0.032000	M	Sc		0.003080	M	Yb	<	0.000560				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 52.00 +3 6 $Cr(H_2O)_6^{3+}$

Chemical Compatibility -Stable in HCl, HNO_3, H_2SO_4, HF, H_3PO_4. Avoid basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO_3 / LDPE container.

Cr3 Containing Samples (Preparation and Solution) -Metal (soluble in HCl); Oxides/Ores (Chrome ore/oxides are very difficult to dissolve. The following procedures [A-D] are commonly used: A. Fusion with $KHSO_4$ and extraction with hot KCl. The residue fused with Na_2CO_3 and $KClO_3$, 3:1. B. Fusion with $NaKSO_4$ and NaF 2:1, C. Fusion with magnesia or lime and sodium or potassium carbonates, 4:1. D. Fusion with Na_2O_2 or NaOH and KNO_3 or NaOH and Na_2O_2. Nickel, iron, copper, or silver crucibles should be used for D. Platinum may be used for A, <, C); Organic Matrices (ash at 4500C followed by one of the fusion methods above or sulfuric/hydrogen peroxide acid digestions may be applicable to non oxide containing samples).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 52 amu	40 ppt	N/A	36S16O, 36Ar16O - The 50Cr, 53Cr, 54Cr lines suffer from many more potential interferences from sulfur, chlorine and argon compounds of oxygen, nitrogen and carbon.
ICP-OES 205.552 nm	0.006/0.0008 µg/mL	1	Os
ICP-OES 276.654 nm	0.01/0.001 µg/mL	1	Cu, Ta, V
ICP-OES 284.325 nm	0.008/0.0007 µg/mL	1	

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

October 26, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **October 26, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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300 Technology Drive
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CERTIFICATE OF ANALYSIS

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED
Testing Laboratory
Certificate 883.01

ACCREDITED
Reference Material Producer
Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGNI10
Lot Number:	P2-NI686384
Matrix:	3% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Nickel
Starting Material:	Ni Metal
Starting Material Lot#:	2277 and 2282
Starting Material Purity:	99.9992%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 9979 ± 30 µg/mL

Density: 1.038 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **9971 ± 54 µg/mL**
ICP Assay NIST SRM 3136 Lot Number: 120619

Assay Method #2 **9970 ± 32 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **9993 ± 33 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag		0.002606	M	Eu	<	0.001100	O	Na		0.004965	O	Se	<	0.067000	M	Zn		0.006578
M	Al	<	0.013000	O	Fe		0.018618	M	Nb	<	0.001100	O	Si		0.010923	M	Zr	<	0.001100
O	As	<	0.067000	M	Ga	<	0.001100	M	Nd	<	0.001100	M	Sm	<	0.001100				
M	Au	<	0.002100	M	Gd	<	0.001100	s	Ni	<		M	Sn	<	0.016000				
M	B	<	0.017000	M	Ge	<	0.004200	M	Os		0.002110	O	Sr	<	0.000940				
M	Ba	<	0.001100	M	Hf	<	0.001100	i	P	<		M	Ta	<	0.001100				
O	Be	<	0.000410	M	Hg		0.014895	M	Pb		0.006578	M	Tb	<	0.001100				
M	Bi	<	0.004200	M	Ho	<	0.001100	M	Pd	<	0.001100	M	Te	<	0.015000				
O	Ca		0.003351	M	In	<	0.001100	M	Pr	<	0.001100	M	Th	<	0.001100				
M	Cd		0.001365	M	Ir		0.004716	M	Pt	<	0.001100	M	Ti	<	0.004200				
M	Ce	<	0.001100	O	K		0.004716	M	Rb	<	0.001100	M	Tl	<	0.001100				
O	Co		0.017377	M	La	<	0.001100	M	Re		0.001737	M	Tm	<	0.001100				
O	Cr	<	0.006700	O	Li	<	0.000140	M	Rh	<	0.006300	M	U	<	0.001100				
M	Cs	<	0.007300	M	Lu	<	0.001100	M	Ru	<	0.019000	M	V	<	0.002100				
M	Cu		0.004096	O	Mg		0.000372	i	S	<		M	W	<	0.006300				
M	Dy	<	0.001100	O	Mn	<	0.001900	M	Sb		0.005833	O	Y	<	0.000540				
M	Er	<	0.001100	M	Mo	<	0.008400	M	Sc	<	0.002100	M	Yb	<	0.001100				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 58.69 +2 6 Ni(H2O)62+

Chemical Compatibility -Stable in HCl, HNO3, H2SO4 ,HF, H3PO4. Avoid basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO3 / LDPE container.

Ni Containing Samples (Preparation and Solution) -Metal (Soluble in HNO3); Oxides (Soluble in HCl); Ores (Dissolve in HCl / HNO3).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 60 amu	100 ppt	n/a	43Ca16O1H , 44Ca16O, 23Na37Cl
ICP-OES 221.647 nm	0.01 / 0.0009 µg/mL	1	Si
ICP-OES 231.604 nm	0.02 / 0.002 µg/mL	1	Sb, Ta, Co
ICP-OES 232.003 nm	0.02 / 0.006 µg/mL	1	Cr, Re, Os, Nb, Ag, Pt, Fe

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

December 02, 2019

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **December 02, 2023**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Manager, Quality Control

Certifying Officer:

Paul Gaines
CEO, Senior Technical Director

INORGANIC VENTURES™
Refine your results. Redefine your industry.

Certificate of Analysis

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGV10
Lot Number:	S2-V711005
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Vanadium
Starting Material:	Vanadium Pentoxide
Starting Material Lot#:	1782
Starting Material Purity:	99.9877%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10014 ± 30 µg/mL

Density: 1.104 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10017 ± 42 µg/mL**
ICP Assay NIST SRM 3165 Lot Number: 160906

Assay Method #2 **10013 ± 30 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000110	M	Eu	<	0.000110	O	Na		0.120000	M	Se	<	0.009400	M	Zn	0.009400
O	Al		0.120000	O	Fe		0.460000	M	Nb	<	0.001300	O	Si		0.270000	M	Zr	< 0.002900
M	As	<	0.000210	M	Ga	<	0.009300	M	Nd	<	0.000610	M	Sm	<	0.000110			
M	Au	<	0.004700	M	Gd	<	0.000110	M	Ni		0.012000	M	Sn		0.003900			
M	B		0.051000	M	Ge	<	0.000410	M	Os	<	0.000110	O	Sr		0.007100			
M	Ba		0.003600	M	Hf	<	0.000110	O	P	<	0.034000	M	Ta	<	0.000110			
O	Be	<	0.000560	M	Hg	<	0.000410	M	Pb		0.001400	M	Tb	<	0.000110			
M	Bi	<	0.000210	M	Ho	<	0.000110	M	Pd	<	0.000410	M	Te	<	0.000110			
O	Ca		0.730000	M	In	<	0.000110	M	Pr	<	0.000110	M	Th	<	0.000210			
M	Cd	<	0.000610	M	Ir	<	0.000110	M	Pt	<	0.000110	M	Ti		0.017000			
M	Ce	<	0.000610	M	K		0.052000	M	Rb	<	0.000310	M	Tl	<	0.000110			
M	Co	<	0.001300	M	La	<	0.000410	M	Re		0.001700	M	Tm	<	0.000110			
O	Cr		0.170000	M	Li	<	0.000810	M	Rh	<	0.000110	M	U	<	0.000410			
M	Cs		0.005600	M	Lu	<	0.000110	M	Ru	<	0.000110	s	V	<				
M	Cu	<	0.001300	M	Mg		0.053000	i	S	<		M	W		0.002000			
M	Dy	<	0.000110	M	Mn		0.007900	M	Sb		0.078000	M	Y	<	0.000110			
M	Er	<	0.000110	M	Mo		0.094000	M	Sc	<	0.000410	M	Yb	<	0.000110			

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 50.94 +5 6 $H_2V_{10}O_{28}^{4-}$

Chemical Compatibility -Soluble in HCl, HNO_3, H_2SO_4, HF, H_3PO_4 and strong basic media. Stable with most metals and inorganic anions in acidic media.

Stability - 2-100 ppb levels stable for months in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO_3 / LDPE container.

V Containing Samples (Preparation and Solution) -Metal (Fusion with NaOH or KOH in Ni0 or Na_2CO_3 / KNO_3); Oxides (V_2O_3 - use HCl, V_2O_4 - use HCl or HNO_3, V_2O_5 - use concentrated acids); Ores (Na_2CO_3 / KNO_3 in Pt0 caution - nitrates attack Pto followed by water extraction of fuseate); Organic Matrices (Ash at 450 EC followed by dissolving according to V_2O_5 above) .

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 51 amu	4 ppt	N/A	34S16O1H, 35Cl16O, 38Ar13C, 36Ar15N, 36Ar14N1H, 37Cl14N,36S15N, 33S18O, 34S17O, 102Ru+2,02Pd+2
ICP-OES 290.882 nm	0.008 / 0.0008 µg/mL	1	Hf, Nb
ICP-OES 292.402 nm	0.006 / 0.001 µg/mL	1	Th
ICP-OES 309.311 nm	0.005 / 0.001 µg/mL	1	Mg, U, Th

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

December 28, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **December 28, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

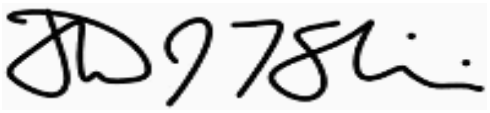
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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Certificate of Analysis

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1.0 ACCREDITATION / REGISTRATION

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ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGAL10
Lot Number:	T2-AL716102
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Aluminum
Starting Material:	Aluminum Nitrate Nonahydrate
Starting Material Lot#:	2460
Starting Material Purity:	99.9938%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10049 ± 31 µg/mL

Density: 1.087 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10059 ± 40 µg/mL**
ICP Assay NIST SRM 3101a Lot Number: 140903

Assay Method #2 **10044 ± 26 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **10049 ± 35 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.002100	M	Eu	<	0.002100	O	Na		0.352819	M	Se	<	0.005200	M	Zn	0.006018
s	Al	<		O	Fe		0.074714	M	Nb	<	0.000520	O	Si		0.017848	O	Zr	0.004358
M	As		0.008716	O	Ga		0.112072	M	Nd	<	0.000520	M	Sm	<	0.000520			
M	Au	<	0.008400	M	Gd	<	0.001100	O	Ni	<	0.006000	M	Sn		0.000747			
O	B	<	0.014000	M	Ge	<	0.005200	M	Os	<	0.000650	O	Sr		0.000518			
O	Ba		0.012867	M	Hf	<	0.004100	n	P	<		M	Ta	<	0.000520			
O	Be	<	0.000270	M	Hg	<	0.002000	M	Pb		0.002282	M	Tb	<	0.000520			
M	Bi		0.001930	M	Ho	<	0.000520	M	Pd	<	0.000520	M	Te	<	0.001100			
O	Ca		0.076790	M	In	<	0.002100	M	Pr	<	0.000520	M	Th	<	0.000520			
M	Cd	<	0.000520	M	Ir	<	0.000650	M	Pt	<	0.000520	O	Ti		0.001930			
M	Ce	<	0.001100	O	K		0.043583	M	Rb	<	0.000520	M	Tl	<	0.000520			
O	Co	<	0.005400	M	La	<	0.002100	M	Re	<	0.000520	M	Tm	<	0.000520			
O	Cr		0.006018	O	Li		0.000112	M	Rh	<	0.000520	M	U	<	0.000520			
M	Cs		0.000643	M	Lu	<	0.000520	M	Ru	<	0.002000	M	V		0.001286			
O	Cu	<	0.008300	O	Mg		0.068488	i	S	<		M	W	<	0.009800			
M	Dy	<	0.002100	O	Mn		0.000913	M	Sb	<	0.003100	M	Y	<	0.001100			
M	Er	<	0.000520	M	Mo		0.005396	O	Sc	<	0.000950	M	Yb	<	0.000520			

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 26.98 +3 6 Al(H2O)6+3
Chemical Compatibility -Soluble in HCl, HNO3, v F and v 2SO4. Avoid neutral media. Soluble in strongly basic NaOH forming the Al(OH)4(H2O)21- species. Stable with most metals and inorganic anions. The phosphate is insoluble in water and only slightly soluble in acid.
Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO3 / LDPE container.
Al Containing Samples (Preparation and Solution) -Metal (Best dissolved in HCl / HNO3); a- Al2O3 (Na2CO3 fusion in Pt0);
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 27 amu	30 ppt	N/A	12C15N, 13C14N, 1H12C14N, 11B16O, 54Cr2+, 54Fe2+
ICP-OES 167.078 nm	0.1/0.009 µg/mL	1	Fe
ICP-OES 394.401 nm	0.05/0.006 µg/mL	1	U, Ce
ICP-OES 396.152 nm	0.03/0.006 µg/mL	1	Mo, Zr, Ce

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

March 22, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **March 22, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

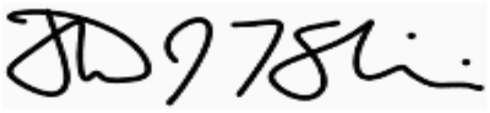
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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Certificate of Analysis

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGK10
Lot Number:	S2-K711973
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Potassium
Starting Material:	KNO3
Starting Material Lot#:	2313
Starting Material Purity:	99.9971%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 9992 ± 30 µg/mL

Density: 1.024 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1	**9987 ± 24 µg/mL** Gravimetric NIST SRM Lot Number: See Sec. 4.2
Assay Method #2	**10004 ± 84 µg/mL** ICP Assay NIST SRM 3141a Lot Number: 140813
Assay Method #3	**10007 ± 45 µg/mL** Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.001400	M	Eu	<	0.000660	O	Na		0.246220	M	Se	<	0.007900	O	Zn		0.018056
O	Al		0.001592	O	Fe		0.005909	M	Nb	<	0.000660	O	Si		0.011490	O	Zr	<	0.001600
M	As	<	0.005300	M	Ga	<	0.000660	M	Nd	<	0.000660	M	Sm	<	0.000660				
M	Au	<	0.002000	M	Gd	<	0.000660	O	Ni	<	0.004900	M	Sn	<	0.000660				
O	B	<	0.005600	M	Ge	<	0.002000	M	Os	<	0.003300	O	Sr		0.000055				
O	Ba	<	0.000860	M	Hf	<	0.000660	O	P	<	0.032000	M	Ta	<	0.000660				
O	Be	<	0.000082	M	Hg	<	0.002000	M	Pb	<	0.002300	M	Tb	<	0.000660				
M	Bi	<	0.006600	M	Ho	<	0.000660	M	Pd	<	0.000660	M	Te	<	0.017000				
O	Ca		0.031187	M	In	<	0.000660	M	Pr	<	0.000660	M	Th	<	0.000660				
O	Cd	<	0.000450	M	Ir	<	0.000660	M	Pt	<	0.002700	M	Ti	<	0.000660				
M	Ce	<	0.000660	s	K	<		M	Rb		0.476026	M	Tl	<	0.000660				
O	Co	<	0.000780	M	La	<	0.000660	M	Re	<	0.000660	M	Tm	<	0.000660				
O	Cr		0.000541	O	Li	<	0.000084	M	Rh	<	0.000660	M	U	<	0.000660				
M	Cs	<	0.000660	M	Lu	<	0.000660	M	Ru	<	0.000660	O	V	<	0.001100				
M	Cu	<	0.002700	O	Mg		0.006237	O	S		0.027905	M	W	<	0.000660				
M	Dy	<	0.000660	O	Mn		0.000476	M	Sb	<	0.000660	M	Y	<	0.000660				
M	Er	<	0.000660	M	Mo	<	0.000660	O	Sc	<	0.000340	O	Yb	<	0.000270				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 39.10 +1 (6) K+(aq)
Chemical Compatibility -Soluble in HCl, HNO3, H2SO4 and HF aqueous matrices. Avoid use of HClO4 due to insolubility of the perchlorate. Stable with all metals and inorganic anions except ClO4-.
Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO3 / LDPE container.
K Containing Samples (Preparation and Solution) - Metal (Dissolves very rapidly in water); Ores (Sodium carbonate fusion in Pt0 followed by HCl dissolution-blank levels of K in sodium carbonate critical); Organic Matrices (Sulfuric/peroxide digestion)
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 39 amu	10 ppt	n/a	38ArH, 23Na16O, 78Se
ICP-OES 404.721 nm	1.1 / 0.05 µg/mL	1	U, Ce
ICP-OES 766.490 nm	0.4 / 0.001 µg/mL	1	2nd order radiation from R.E.s on some optical designs
ICP-OES 771.531 nm	1.0 / 0.03 µg/mL	1	2nd order radiation from R.E.s on some optical designs

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

December 10, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **December 10, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

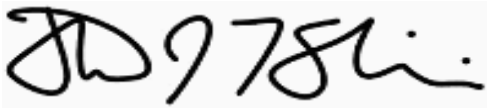
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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Certificate of Analysis

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inorganicventures.com

P: 800-669-6799/540-585-3030
F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGMG10
Lot Number:	S2-MG704239
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Magnesium
Starting Material:	Magnesium Metal
Starting Material Lot#:	2168
Starting Material Purity:	99.9984%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10053 ± 30 µg/mL

Density: 1.053 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10022 ± 62 µg/mL**
ICP Assay NIST SRM 3131a Lot Number: 140110

Assay Method #2 **10078 ± 26 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **10033 ± 26 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O	Ag		0.002106	M	Eu	<	0.000910	O	Na		0.071075	O	Se	<	0.048000	O	Zn		0.003299
M	Al		0.003553	M	Fe		0.002538	M	Nb	<	0.000460	O	Si	<	0.032000	O	Zr	<	0.002700
M	As	<	0.001400	M	Ga	<	0.000460	M	Nd	<	0.000910	M	Sm	<	0.000460				
M	Au	<	0.001400	M	Gd	<	0.000460	O	Ni	<	0.001600	M	Sn	<	0.002300				
O	B		0.006853	M	Ge	<	0.001400	M	Os	<	0.000460	O	Sr		0.000279				
O	Ba		0.000964	M	Hf	<	0.000460	O	P		0.015230	M	Ta	<	0.000460				
O	Be	<	0.000120	M	Hg	<	0.000460	M	Pb	<	0.000460	M	Tb	<	0.000460				
M	Bi	<	0.000460	M	Ho	<	0.000460	M	Pd	<	0.003200	M	Te	<	0.007300				
O	Ca		0.053306	M	In	<	0.000460	M	Pr	<	0.000460	M	Th	<	0.000460				
O	Cd	<	0.000360	M	Ir	<	0.000460	M	Pt	<	0.001900	O	Ti	<	0.001700				
M	Ce	<	0.002300	M	K		0.048229	M	Rb		0.002411	M	Tl		0.003046				
M	Co	<	0.000910	M	La	<	0.002800	M	Re	<	0.000460	M	Tm	<	0.000460				
M	Cr	<	0.002300	O	Li		0.027922	M	Rh	<	0.000460	M	U	<	0.000460				
M	Cs		0.001040	M	Lu	<	0.000460	M	Ru	<	0.000460	M	V	<	0.000460				
O	Cu	<	0.003000	s	Mg	<		O	S	<	0.190000	M	W	<	0.000460				
M	Dy	<	0.000460	O	Mn		0.015230	M	Sb		0.020814	O	Y	<	0.000720				
M	Er	<	0.000460	M	Mo	<	0.000910	O	Sc	<	0.000480	M	Yb	<	0.000460				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 24.31 +2 6 Mg(H2O)6+2
Chemical Compatibility -Soluble in HCl, HNO3, and H2SO4 avoid HF, H3PO4 and neutral to basic media. Stable with most metals and inorganic anions forming insoluble silicates, carbonates, hydroxides, oxides, and tungstates in neutral and slightly acidic media.
Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-10% HNO3 / LDPE container.
Mg Containing Samples (Preparation and Solution) -Metal (Best dissolved in diluted HNO3); Oxide (Readily soluble in above compatible aqueous acidic solutions); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (Sulfuric / peroxide digestion or nitric / sulfuric / perchloric acid decomposition, or dry ash and dissolution in dilute HCl).
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 24 amu	42 ppt	n/a	7Li17O, 48Ti+2 , 48Ca+2
ICP-OES 279.553 nm	0.0002 / 0.00003 µg/mL	1	Th
ICP-OES 280.270 nm	0.0003 / 0.00005 µg/mL	1	U, V
ICP-OES 285.213 nm	0.002 / 0.00003 µg/mL	1	U, Hf, Cr, Zr

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

April 23, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **April 23, 2025**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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Certificate of Analysis

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGCA10
Lot Number:	T2-CA716103
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Calcium
Starting Material:	CaCO3
Starting Material Lot#:	2472
Starting Material Purity:	99.9950%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10005 ± 30 µg/mL

Density: 1.039 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **10005 ± 45 µg/mL**
ICP Assay NIST SRM 3109a Lot Number: 130213

Assay Method #2 **10005 ± 25 µg/mL**
EDTA NIST SRM 928 Lot Number: 928

Assay Method #3 **10005 ± 31 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.001200	M	Eu	<	0.001200	O	Na		0.006112	M	Se	<	0.024000	M	Zn		0.005362
M	Al		0.065419	O	Fe		0.009115	M	Nb	<	0.001200	O	Si		0.139417	O	Zr	<	0.006700
O	As	<	0.013000	M	Ga	<	0.015000	M	Nd	<	0.020000	M	Sm	<	0.001200				
M	Au	<	0.017000	M	Gd	<	0.004800	O	Ni		0.000793	M	Sn	<	0.003600				
O	B		0.001179	M	Ge	<	0.003600	M	Os	<	0.001200	M	Sr		0.081505				
O	Ba		0.002788	M	Hf	<	0.001200	O	P	<	0.041000	M	Ta	<	0.001200				
O	Be	<	0.000410	M	Hg	<	0.004800	M	Pb		0.001608	M	Tb	<	0.001200				
M	Bi		0.001608	M	Ho	<	0.001200	M	Pd	<	0.001200	M	Te	<	0.003600				
s	Ca	<		M	In	<	0.001200	M	Pr		0.000257	M	Th	<	0.001200				
O	Cd	<	0.001300	M	Ir	<	0.001200	M	Pt	<	0.003600	O	Ti	<	0.001900				
M	Ce		0.001029	O	K		0.009759	M	Rb	<	0.001200	M	Tl	<	0.001200				
O	Co		0.000418	M	La		0.001823	M	Re	<	0.001200	M	Tm	<	0.001200				
O	Cr		0.003324	O	Li	<	0.007300	M	Rh	<	0.001200	M	U		0.002144				
M	Cs		0.007399	M	Lu		0.000128	M	Ru	<	0.001200	M	V		0.001286				
O	Cu	<	0.011000	M	Mg		1.286934	O	S		0.055767	O	W	<	0.024000				
M	Dy	<	0.002400	O	Mn		0.004611	M	Sb	<	0.009600	O	Y		0.000536				
M	Er	<	0.002400	M	Mo		0.003539	O	Sc	<	0.001400	M	Yb	<	0.001200				

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 40.08 +2 6 Ca(H2O)6+2
Chemical Compatibility - Soluble in HCl and HNO3. Avoid H2SO4, vF, v3PO4 and neutral to basic media. Stable with most metals and inorganic anions forming insoluble silicate, carbonate, hydroxide, oxide, fluoride, sulfate, oxalate, chromate, arsenate, and tungstate in neutral aqueous media.
Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-10% HNO3 / LDPE container.
Ca Containing Samples)Preparation and Solution) -Metal (best dissolved in diluted HNO3); Ores (Carbonate fusion in Pt0 followed by HCl dissolution); Organic Matrices (dry ash and dissolution in dilute HCl. Do not heat when dissolving to avoid precipitation of SiO2). The oxide, hydroxide, carbonate, phosphate, and fluoride of calcium are soluble in % levels of HCl or HNO3. The sulfates (gypsum, anhydrite, etc.), certain silicates, and complex compounds require fusion with Na2CO3 followed by HCl / water dissolution. Note that contamination is a very real problem when analyzing for trace levels.
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 44 amu	1200 ppt	n/a	16O212C, 28Si16O, 88Sr
ICP-OES 393.366 nm	0.0002 / 0.00004 µg/mL	1	U, Ce
ICP-OES 396.847 nm	0.0005 / 0.00006 µg/mL	1	Th
ICP-OES 422.673 nm	0.01 / 0.001 µg/mL	1	Ge

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

March 14, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **March 14, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

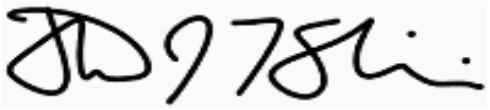
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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Certificate of Analysis

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGNA10
Lot Number:	T2-NA717221
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	10 000 µg/mL ea: Sodium
Starting Material:	Na2CO3
Starting Material Lot#:	2358 and 2453
Starting Material Purity:	99.9977%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 9977 ± 30 µg/mL

Density: 1.033 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **9974 ± 18 µg/mL**
Gravimetric NIST SRM Lot Number: See Sec. 4.2

Assay Method #2 **9977 ± 34 µg/mL**
ICP Assay NIST SRM 3152a Lot Number: 200413

Assay Method #3 **9987 ± 31 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	< 0.000930	M	Eu	< 0.000930	s	Na	<		M	Se	< 0.003800	O	Zn		0.000138	
M	Al	0.004409	O	Fe	0.002393	M	Nb	< 0.000930		O	Si	0.056696	O	Zr	<	0.003200	
O	As	< 0.023000	M	Ga	< 0.000930	M	Nd	< 0.000930		M	Sm	< 0.000930					
O	Au	< 0.004100	M	Gd	< 0.000930	O	Ni	< 0.003000		M	Sn	< 0.002800					
O	B	0.001385	M	Ge	< 0.004700	M	Os	< 0.000930		O	Sr	0.000251					
M	Ba	0.004031	M	Hf	< 0.000930	O	P	0.010205		M	Ta	< 0.000930					
O	Be	< 0.000130	M	Hg	< 0.000930	M	Pb	< 0.000930		M	Tb	< 0.000930					
M	Bi	< 0.000930	M	Ho	< 0.000930	M	Pd	< 0.000930		M	Te	< 0.001900					
O	Ca	0.176388	M	In	< 0.000930	M	Pr	< 0.000930		M	Th	0.000352					
O	Cd	< 0.000860	M	Ir	< 0.000930	M	Pt	< 0.000930		O	Ti	0.000592					
M	Ce	< 0.001900	O	K	0.302380	M	Rb	< 0.000930		M	Tl	< 0.000930					
O	Co	< 0.001800	O	La	< 0.002100	M	Re	< 0.000930		M	Tm	< 0.000930					
M	Cr	< 0.002800	O	Li	0.000031	M	Rh	< 0.000930		M	U	< 0.000930					
M	Cs	< 0.000930	M	Lu	< 0.000930	M	Ru	< 0.001900		O	V	< 0.001600					
O	Cu	< 0.003900	O	Mg	0.026458	O	S	0.040317		O	W	< 0.028000					
M	Dy	< 0.000930	O	Mn	< 0.000740	M	Sb	< 0.000930		O	Y	< 0.000860					
M	Er	< 0.000930	O	Mo	< 0.003600	O	Sc	< 0.000610		O	Yb	< 0.000250					

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 22.99 +1 (6) Na+(aq) largely ionic in nature

Chemical Compatibility -Soluble in HCl, HNO3, H2SO4 and HF aqueous matrices. Stable with all metals and inorganic anions.

Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO3 / LDPE container.

Na Containing Samples (Preparation and Solution) - Metal (Dissolves very rapidly in water); Ores (Lithium carbonate fusion in graphite crucible followed by HCl dissolution - blank levels of Na in lithium carbonate critical); Organic Matrices (Sulfuric / peroxide digestion or nitric/sulfuric/perchloric acid decomposition).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 23 amu	310 ppt	n/a	46Ti+2 , 46Ca+2
ICP-OES 330.237 nm	2.0 / 0.09 µg/mL	1	Pd, Zn
ICP-OES 588.995 nm	0.03 / 0.006 µg/mL	1	2nd order radiation from R.E.s on some optical designs
ICP-OES 589.595 nm	0.07 / 0.00009 µg/mL	1	2nd order radiation from R.E.s on some optical designs

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

April 20, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **April 20, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

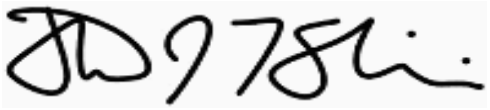
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Single Analyte Custom Grade Solution
Catalog Number:	CGU1
Lot Number:	S2-U707914
Matrix:	2% (v/v) HNO3
Value / Analyte(s):	1 000 µg/mL ea: Uranium
Starting Material:	Uranyl Nitrate Hexahydrate
Starting Material Lot#:	P2-2322
Starting Material Purity:	99.9997%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 999 ± 5 µg/mL

Density: 1.010 g/mL (measured at 20 ± 4 ºC)

Assay Information:

Assay Method #1 **998 ± 5 µg/mL**
ICP Assay NIST SRM 3164 Lot Number: 080521

Assay Method #2 **1001 ± 6 µg/mL**
Calculated NIST SRM Lot Number: See Sec. 4.2

- The Calculated Value is a value calculated from the weight of a starting material that has been certified directly vs. a National Institute of Standards and Technology (NIST) SRM/RM. See Sec 4.2 for balance traceability.

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Certified Abundance:

IV's Certified Abundance

Isotope	Atom %
Uranium 238U	99.8 ± 0.1
Uranium 235U	0.19 ± 0.05

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

M	Ag	<	0.000270	M	Eu	<	0.000270	M	Na	<	0.011000	M	Se	<	0.009300	M	Zn	0.002358
M	Al	<	0.011000	M	Fe		0.003222	M	Nb	<	0.000270	M	Si	<	0.160000	M	Zr	< 0.001100
M	As	<	0.002400	M	Ga	<	0.000270	M	Nd	<	0.000270	M	Sm	<	0.000270			
M	Au	<	0.000270	M	Gd	<	0.000270	M	Ni	<	0.020000	M	Sn	<	0.011000			
M	B	<	0.000270	M	Ge	<	0.000800	M	Os	<	0.001900	M	Sr	<	0.000270			
M	Ba	<	0.003800	M	Hf	<	0.000270	i	P	<		M	Ta	<	0.000270			
M	Be	<	0.000270	M	Hg	<	0.000540	M	Pb	<	0.002200	M	Tb	<	0.000270			
M	Bi	<	0.000270	M	Ho	<	0.000270	M	Pd	<	0.000540	M	Te	<	0.003800			
M	Ca	<	0.140000	M	In	<	0.000270	M	Pr	<	0.000270	M	Th		0.000129			
M	Cd	<	0.000270	M	Ir	<	0.000270	M	Pt	<	0.000270	M	Ti	<	0.002700			
M	Ce	<	0.000540	O	K	<	0.250000	M	Rb	<	0.000800	M	Tl	<	0.000270			
M	Co	<	0.000800	M	La		0.000117	M	Re	<	0.064000	M	Tm	<	0.000270			
M	Cr		0.000943	M	Li	<	0.003000	M	Rh	<	0.000270	s	U	<				
M	Cs		0.000106	M	Lu	<	0.000270	M	Ru	<	0.000540	M	V	<	0.000540			
M	Cu	<	0.001100	M	Mg	<	0.003000	i	S	<		M	W	<	0.000540			
M	Dy	<	0.000270	M	Mn	<	0.006900	M	Sb	<	0.000270	M	Y	<	0.000270			
M	Er	<	0.000270	M	Mo	<	0.006400	M	Sc	<	0.000540	M	Yb	<	0.000270			

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 238.03 +6 8 UO22+(uranyl)
Chemical Compatibility - Soluble in HCl and HNO3. Avoid H3PO4. H2SO4 and HF matrices should not be a problem depending upon [U]. Although the UO22+ ion is distinctly basic, any U+4 will precipitate in basic media. UO22+salts are generally soluble in water and UO22+ is stable with most metals and inorganic anions. The uranyl phosphate is insoluble in water. UF4 and UF6 are water soluble.
Stability - 2-100 ppb levels stable for months in 1% HNO3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 2-5% HNO3 / LDPE container.
U Containing Samples (Preparation and Solution) -Metal (Dissolves rapidly in HCl and HNO3); Oxide (Soluble in HNO3); Ores (Digest for 1-2 hours with 1 gram of ore to 30 mL 1:1 HNO3. Silica insolubles are removed by filtration after bringing the sample to fumes with conc. H2SO4.)
Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	**Estimated D.L.**	**Order**	**Interferences** (underlined indicates severe)
ICP-MS 238 amu	2 ppt	N/A	206Pb16O2
ICP-OES 263.553 nm	0.3 / 0.01 µg/mL	1	Ce, Ir, Th, Rh, W, Zr, Ta, Ti, V, Hf, Fe, Re, Ru
ICP-OES 367.007 nm	0.3 / 0.02 µg/mL	1	Th, Ce
ICP-OES 385.958 nm	0.3 / 0.01 µg/mL	1	Th, Fe

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

August 28, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **August 28, 2026**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Michael Booth
Director, Quality Control

Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Certificate of Analysis

300 Technology Drive
Christiansburg, VA 24073 USA
inorganicventures.com

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F: 540-585-3012
info@inorganicventures.com

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	AR-ICVMS-2
Lot Number:	T2-MEB719895
Matrix:	3% (v/v) HNO3 tr. HF
Value / Analyte(s):	2.5 µg/mL ea: Molybdenum, Antimony

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Antimony, Sb	**2.499 ± 0.015 µg/mL**	**Molybdenum, Mo**	**2.500 ± 0.017 µg/mL**

Density: 1.014 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Mo	ICP Assay	3134	130418
Mo	Calculated		See Sec. 4.2
Sb	ICP Assay	3102a	140911
Sb	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

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11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 06, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **June 06, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

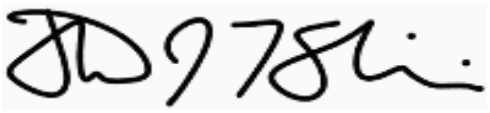
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Certificate of Analysis

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	AR-ICVMS-3
Lot Number:	T2-MEB719896
Matrix:	7% (v/v) HNO3
Value / Analyte(s):	250 µg/mL ea:

Aluminum, Calcium,
Iron, Potassium,
Magnesium, Sodium,

4 µg/mL ea:
Selenium,

2.5 µg/mL ea:

Thorium,	Thallium,
Uranium,	Vanadium,
Zinc,	Manganese,
Cadmium,	Cobalt,
Chromium,	Copper,
Arsenic,	Barium,
Beryllium,	Nickel,
Lead,	Silver

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	250.0 ± 0.9 µg/mL	Arsenic, As	2.500 ± 0.018 µg/mL
Barium, Ba	2.501 ± 0.013 µg/mL	Beryllium, Be	2.501 ± 0.015 µg/mL
Cadmium, Cd	2.501 ± 0.013 µg/mL	Calcium, Ca	250.0 ± 1.3 µg/mL
Chromium, Cr	2.500 ± 0.015 µg/mL	Cobalt, Co	2.500 ± 0.014 µg/mL
Copper, Cu	2.500 ± 0.014 µg/mL	Iron, Fe	250.0 ± 1.0 µg/mL
Lead, Pb	2.500 ± 0.013 µg/mL	Magnesium, Mg	250.0 ± 1.3 µg/mL
Manganese, Mn	2.500 ± 0.014 µg/mL	Nickel, Ni	2.500 ± 0.014 µg/mL
Potassium, K	250.0 ± 1.2 µg/mL	Selenium, Se	4.002 ± 0.024 µg/mL
Silver, Ag	2.501 ± 0.017 µg/mL	Sodium, Na	250.0 ± 1.2 µg/mL
Thallium, Tl	2.500 ± 0.017 µg/mL	Thorium, Th	2.499 ± 0.013 µg/mL
Uranium, U	2.501 ± 0.015 µg/mL	Vanadium, V	2.500 ± 0.014 µg/mL
Zinc, Zn	2.500 ± 0.014 µg/mL		

Density: 1.042 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	160729
Ag	Volhard	999c	999c
Ag	Calculated		See Sec. 4.2
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
As	ICP Assay	3103a	100818
Ba	ICP Assay	3104a	140909
Ba	Calculated		See Sec. 4.2
Ba	Gravimetric		See Sec. 4.2
Be	ICP Assay	3105a	090514
Be	Calculated		See Sec. 4.2
Ca	ICP Assay	3109a	130213
Ca	EDTA	928	928
Cd	ICP Assay	3108	130116
Cd	EDTA	928	928
Cd	Calculated		See Sec. 4.2
Co	ICP Assay	3113	190630
Co	EDTA	928	928
Co	Calculated		See Sec. 4.2
Cr	ICP Assay	3112a	170630
Cr	Calculated		See Sec. 4.2
Cu	ICP Assay	3114	121207
Cu	EDTA	928	928
Cu	Calculated		See Sec. 4.2
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
K	ICP Assay	3141a	140813
K	Gravimetric		See Sec. 4.2
Mg	ICP Assay	3131a	140110
Mg	EDTA	928	928
Mn	ICP Assay	3132	050429
Mn	EDTA	928	928
Mn	Calculated		See Sec. 4.2
Na	ICP Assay	3152a	120715
Na	Gravimetric		See Sec. 4.2
Ni	ICP Assay	3136	120619
Ni	EDTA	928	928
Ni	Calculated		See Sec. 4.2
Pb	ICP Assay	3128	101026
Pb	EDTA	928	928
Pb	Calculated		See Sec. 4.2
Se	ICP Assay	3149	100901
Se	Calculated		See Sec. 4.2
Th	EDTA	928	928
Th	Calculated		See Sec. 4.2
Tl	ICP Assay	3158	151215
Tl	Calculated		See Sec. 4.2
U	ICP Assay	3164	080521
U	Calculated		See Sec. 4.2

V	ICP Assay	3165	160906
V	EDTA	928	928
Zn	ICP Assay	3168a	120629
Zn	EDTA	928	928
Zn	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\,(u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\,(u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Certified Abundance:

IV's Certified Abundance

Isotope	Atom %
Uranium 238U	99.8 ± 0.1
Uranium 235U	0.19 ± 0.05

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

Note: This solution contains Silver (Ag), please refer to our Sample Preparation Guide for more information.

https://www.inorganicventures.com/sample-preparation-guide/samples-containing-silver

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 06, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **June 06, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

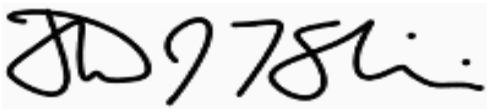
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

INORGANIC VENTURES
Refine your results. Redefine your industry.

Certificate of Analysis

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1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).

ACCREDITED Testing Laboratory Certificate 883.01
ACCREDITED Reference Material Producer Certificate 883.02

2.0 PRODUCT DESCRIPTION

Product Code:	Multi Analyte Custom Grade Solution
Catalog Number:	AR-6020ICS-0A10
Lot Number:	T2-MEB719898
Matrix:	1.4% (v/v) HNO3
Value / Analyte(s):	1 000 µg/mL ea: Chloride,
	200 µg/mL ea: Carbon,
	100 µg/mL ea: Calcium, Aluminum, Iron, Potassium, Magnesium, Sodium, Phosphorus, Sulfur,
	2 µg/mL ea: Titanium, Molybdenum

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ANALYTE	CERTIFIED VALUE	ANALYTE	CERTIFIED VALUE
Aluminum, Al	**100.0 ± 0.4 µg/mL**	**Calcium, Ca**	**100.0 ± 0.5 µg/mL**
Carbon, C	**200.1 ± 0.5 µg/mL**	**Chloride, Cl**	**1 000 ± 5 µg/mL**
Iron, Fe	**100.0 ± 0.5 µg/mL**	**Magnesium, Mg**	**100.0 ± 0.5 µg/mL**
Molybdenum, Mo	**2.001 ± 0.014 µg/mL**	**Phosphorus, P**	**100.0 ± 0.6 µg/mL**
Potassium, K	**100.0 ± 0.5 µg/mL**	**Sodium, Na**	**100.0 ± 0.5 µg/mL**
Sulfur, S	**100.0 ± 0.5 µg/mL**	**Titanium, Ti**	**2.001 ± 0.015 µg/mL**

Density: 1.009 g/mL (measured at 20 ± 4 ºC)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Al	ICP Assay	3101a	140903
Al	EDTA	928	928
C	Acidimetric	84L	84L
Ca	ICP Assay	3109a	130213
Ca	EDTA	928	928
Cl	Acidimetric	84L	84L
Fe	ICP Assay	3126a	140812
Fe	EDTA	928	928
K	ICP Assay	3141a	140813
K	Gravimetric		See Sec. 4.2
Mg	ICP Assay	3131a	140110
Mg	EDTA	928	928
Mo	ICP Assay	3134	130418
Na	ICP Assay	3152a	120715
Na	Gravimetric		See Sec. 4.2
P	ICP Assay	3139a	060717
P	Acidimetric	84L	84L
S	Acidimetric	84L	84L
S	ICP Assay	traceable to 3154	P2-S680745
Ti	ICP Assay	3162a	130925

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$X_{CRM/RM} = \Sigma(w_i)(X_i)$

X_i = mean of Assay Method i with standard uncertainty $u_{char\ i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance:

$w_i = (1/u_{char\ i})^2 / (\Sigma(1/(u_{char\ i})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char} = [\Sigma((w_i)^2\ (u_{char\ i})^2)]^{½}$ where $u_{char\ i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$X_{CRM/RM} = (X_a)\ (u_{char\ a})$

X_a = mean of Assay Method A with

$u_{char\ a}$ = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k\,(u^2_{char\ a} + u^2_{bb} + u^2_{lts} + u^2_{ts})^{½}$

k = coverage factor = 2

$u_{char\ a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

N/A

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit **www.inorganicventures.com/TCT**

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va. 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

June 07, 2022

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **June 07, 2027**

- The date after which this CRM/RM should not be used.

- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

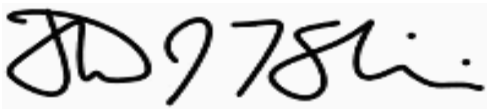
- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Approved By:

Thomas Kozikowski
Manager, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW23-SS1000

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0071-01 D	SDG:	23C0071
Sampled:	03/02/23 09:33	Prepared:	04/05/23 15:19	File ID:	CubeData_04072023@1412-017
% Solids:	43.84	Preparation:	PSEP 1986 (modified)	Analyzed:	04/06/23 19:01
Batch:	BLD0117	Sequence:	SLD0078	Initial/Final:	0.5259 g Wet / 0.5259 mL
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	2.74	1	0.02	0.02	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW23-SS1037

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0071-02 D	SDG:	23C0071
Sampled:	03/02/23 09:56	Prepared:	04/05/23 15:19	File ID:	CubeData_04072023@1412-020
% Solids:	49.83	Preparation:	PSEP 1986 (modified)	Analyzed:	04/06/23 20:32
Batch:	BLD0117	Sequence:	SLD0078	Initial/Final:	0.5444 g Wet / 0.5444 mL
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	2.57	1	0.02	0.02	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW23-SS1036

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0071-03 D	SDG:	23C0071
Sampled:	03/02/23 10:10	Prepared:	04/05/23 15:19	File ID:	CubeData_04072023@1412-021
% Solids:	47.90	Preparation:	PSEP 1986 (modified)	Analyzed:	04/06/23 21:03
Batch:	BLD0117	Sequence:	SLD0078	Initial/Final:	0.5164 g Wet / 0.5164 mL
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	3.12	1	0.02	0.02	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW23-SS1044

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0071-04 D	SDG:	23C0071
Sampled:	03/02/23 10:22	Prepared:	04/05/23 15:19	File ID:	CubeData_04072023@1412-022
% Solids:	43.23	Preparation:	PSEP 1986 (modified)	Analyzed:	04/06/23 21:33
Batch:	BLD0117	Sequence:	SLD0078	Initial/Final:	0.5195 g Wet / 0.5195 mL
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	4.00	1	0.02	0.02	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW23-SS1048

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0071-05 D	SDG:	23C0071
Sampled:	03/02/23 10:32	Prepared:	04/05/23 15:19	File ID:	CubeData_04072023@1412-023
% Solids:	49.02	Preparation:	PSEP 1986 (modified)	Analyzed:	04/06/23 22:04
Batch:	BLD0117	Sequence:	SLD0078	Initial/Final:	0.6005 g Wet / 0.6005 mL
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	2.65	1	0.02	0.02	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW23-SS1054

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0071-06 D	SDG:	23C0071
Sampled:	03/02/23 10:41	Prepared:	04/05/23 15:19	File ID:	CubeData_04072023@1412-024
% Solids:	47.49	Preparation:	PSEP 1986 (modified)	Analyzed:	04/06/23 22:34
Batch:	BLD0117	Sequence:	SLD0078	Initial/Final:	0.5595 g Wet / 0.5595 mL
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	2.63	1	0.02	0.02	

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Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW23-SC1054

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0071-08 C	SDG:	23C0071
Sampled:	03/02/23 11:56	Prepared:	04/05/23 15:19	File ID:	CubeData_04072023@1412-025
% Solids:	55.95	Preparation:	PSEP 1986 (modified)	Analyzed:	04/06/23 23:05
Batch:	BLD0117	Sequence:	SLD0078	Initial/Final:	0.5399 g Wet / 0.5399 mL
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	2.91	1	0.02	0.02	

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Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW23-SC1048

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0071-09 C	SDG:	23C0071
Sampled:	03/02/23 12:27	Prepared:	04/05/23 15:19	File ID:	CubeData_04072023@1412-026
% Solids:	52.43	Preparation:	PSEP 1986 (modified)	Analyzed:	04/06/23 23:35
Batch:	BLD0117	Sequence:	SLD0078	Initial/Final:	0.5616 g Wet / 0.5616 mL
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	2.70	1	0.02	0.02	

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Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW23-SC1036

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC5 MR Phase 1				
Matrix:	Sediment	Laboratory ID:	23C0071-10 C	SDG:	23C0071
Sampled:	03/02/23 14:09	Prepared:	04/05/23 15:19	File ID:	CubeData_04072023@1412-029
% Solids:	59.05	Preparation:	PSEP 1986 (modified)	Analyzed:	04/07/23 01:07
Batch:	BLD0117	Sequence:	SLD0078	Initial/Final:	0.5304 g Wet / 0.5304 mL
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	1.64	1	0.02	0.02	

PREPARATION BATCH SUMMARY

EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Batch: BLD0117 Batch Matrix: Solid
Preparation: PSEP 1986 (modified)

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW23-SS1000	23C0071-01	eData_04072023@1412-	04/05/23 15:19	
LDW23-SS1037	23C0071-02	eData_04072023@1412-	04/05/23 15:19	
LDW23-SS1036	23C0071-03	eData_04072023@1412-	04/05/23 15:19	
LDW23-SS1044	23C0071-04	eData_04072023@1412-	04/05/23 15:19	
LDW23-SS1048	23C0071-05	eData_04072023@1412-	04/05/23 15:19	
LDW23-SS1054	23C0071-06	eData_04072023@1412-	04/05/23 15:19	
LDW23-SC1054	23C0071-08	eData_04072023@1412-	04/05/23 15:19	
LDW23-SC1048	23C0071-09	eData_04072023@1412-	04/05/23 15:19	
LDW23-SC1036	23C0071-10	eData_04072023@1412-	04/05/23 15:19	
Blank	BLD0117-BLK1	eData_04072023@1412-	04/05/23 15:19	
LCS	BLD0117-BS1	eData_04072023@1412-	04/05/23 15:19	
LDW23-SS1000	BLD0117-DUP3	eData_04072023@1412-	04/05/23 15:19	
MRL Check	BLD0117-MRL1	eData_04072023@1412-	04/05/23 15:19	
LDW23-SS1000	BLD0117-MS2	eData_04072023@1412-	04/05/23 15:19	
Reference	BLD0117-SRM1	eData_04072023@1412-	04/05/23 15:19	

Form I

METHOD BLANK DATA SHEET

EPA 9060A m

TotalAnalytes

Blank

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Batch: BLD0117
Laboratory ID: BLD0117-BLK1
Prepared: 04/05/23 15:19
Matrix: Solid
Preparation: PSEP 1986 (modified)
Analyzed: 04/06/23 13:27
Sequence: SLD0078
Calibration: FD00070
Instrument: TOC Cube

CAS NO.	Analyte	Concentration (% wet)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	ND	1	0.02	0.02	U

LCS / LCS DUPLICATE RECOVERY

EPA 9060A m

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Matrix:	Solid	Analyzed:	04/06/23 13:58
Batch:	BLD0117	Laboratory ID:	BLD0117-BS1
Preparation:	PSEP 1986 (modified)	Sequence Name:	LCS
Initial/Final:	0.0255 g / 0.0255 mL		

COMPOUND	SPIKE ADDED (% wet)	LCS CONCENTRATION (% wet)	Q	LCS % REC. #	QC LIMITS REC.
Total Organic Carbon	44.4	45.3		102	80 - 120

* Indicates values outside of QC limits

DUPLICATES

EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Matrix: Solid
Laboratory ID: BLD0117-DUP3
Batch: BLD0117
Lab Source ID: 23C0071-01
Preparation: PSEP 1986 (modified)
Initial/Final: 0.5028 g / 0.5028 mL
Source Sample Name: LDW23-SS1000
% Solids: 43.84

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION	DUPLICATE CONCENTRATION	RPD %	Q
Total Organic Carbon	20	2.74	2.85	3.83	

*: Values outside of QC limits
L: Analyte concentration is <=5 times the reporting limit and the replicate control limit defaults to Dup = +/- RL instead of 20% RPD

MS / MS DUPLICATE RECOVERY
EPA 9060A m

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Matrix:	Solid	Analyzed:	04/06/23 20:02
Batch:	BLD0117	Laboratory ID:	BLD0117-MS2
Preparation:	PSEP 1986 (modified)	Sequence Name:	Matrix Spike
Initial/Final:	0.5322 g / 0.5322 mL	Source Sample:	LDW23-SS1000

COMPOUND	SPIKE ADDED (% dry)	SAMPLE CONCENTRATION (% dry)	Q	MS CONCENTRATION (% dry)	Q	MS % REC. #	QC LIMITS REC.
Total Organic Carbon	1.56	2.74		4.74	HC	128 *	75 - 125

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SKD0371
Instrument: TOC Cube
Calibration: FD00070

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Cal Standard	SKD0371-CAL1	CubeData_04272022@1136-001	NA	04/26/22 12:30
Cal Standard	SKD0371-CAL2	CubeData_04272022@1136-002	NA	04/26/22 13:00
Cal Standard	SKD0371-CAL3	CubeData_04272022@1136-003	NA	04/26/22 13:30
Cal Standard	SKD0371-CAL4	CubeData_04272022@1136-004	NA	04/26/22 14:00
Cal Standard	SKD0371-CAL5	CubeData_04272022@1136-005	NA	04/26/22 14:30
Cal Standard	SKD0371-CAL6	CubeData_04272022@1136-006	NA	04/26/22 15:00
Cal Standard	SKD0371-CAL7	CubeData_04272022@1136-007	NA	04/26/22 15:30
Cal Standard	SKD0371-CAL8	CubeData_04272022@1136-008	NA	04/26/22 16:00
Cal Standard	SKD0371-CAL9	CubeData_04272022@1136-009	NA	04/26/22 16:30
Cal Standard	SKD0371-CALA	CubeData_04272022@1136-010	NA	04/26/22 17:00
Cal Standard	SKD0371-CALB	CubeData_04272022@1136-011	NA	04/26/22 17:30
Cal Standard	SKD0371-CALC	CubeData_04272022@1136-012	NA	04/26/22 18:00
Cal Standard	SKD0371-CALD	CubeData_04272022@1136-013	NA	04/26/22 18:30
Cal Standard	SKD0371-CALE	CubeData_04272022@1136-014	NA	04/26/22 19:00
Cal Standard	SKD0371-CALF	CubeData_04272022@1136-015	NA	04/26/22 19:31
Cal Standard	SKD0371-CALG	CubeData_04272022@1136-016	NA	04/26/22 20:01
Cal Standard	SKD0371-CALH	CubeData_04272022@1136-017	NA	04/26/22 20:31
Cal Standard	SKD0371-CALI	CubeData_04272022@1136-018	NA	04/26/22 21:01
Cal Standard	SKD0371-CALJ	CubeData_04272022@1136-019	NA	04/26/22 21:31
Cal Standard	SKD0371-CALK	CubeData_04272022@1136-020	NA	04/26/22 22:01
Initial Cal Check	SKD0371-ICV1	CubeData_04272022@1136-027	NA	04/27/22 02:03
Initial Cal Blank	SKD0371-ICB1	CubeData_04272022@1136-028	NA	04/27/22 02:33
Cal Standard	SKD0371-CALL	CubeData_04272022@1136-021	NA	04/27/22 11:08
Cal Standard	SKD0371-CALM	CubeData_04272022@1136-022	NA	04/27/22 11:08
Cal Standard	SKD0371-CALN	CubeData_04272022@1136-023	NA	04/27/22 11:09
Cal Standard	SKD0371-CALO	CubeData_04272022@1136-024	NA	04/27/22 11:09

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS BATCH (SEQUENCE) SUMMARY

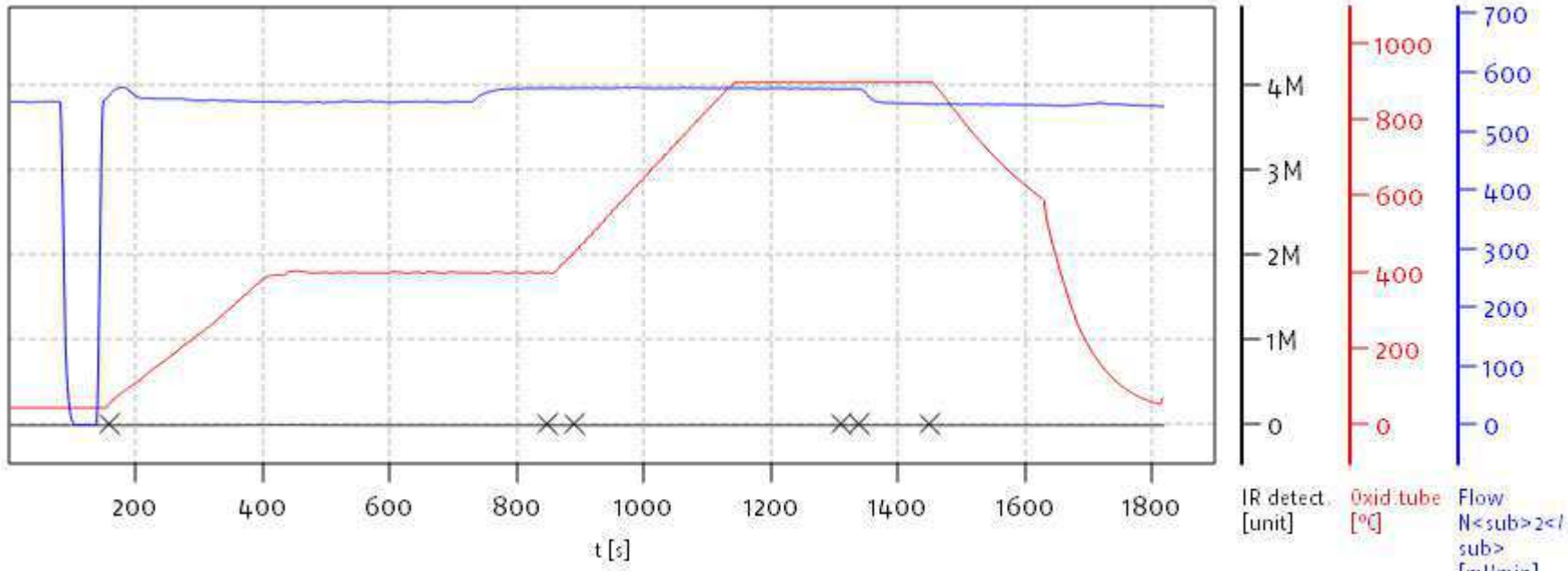
EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Sequence: SLD0078
Instrument: TOC Cube
Calibration: FD00070

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Initial Cal Check	SLD0078-ICV1	CubeData_04072023@1412-003	NA	04/06/23 11:57
Initial Cal Blank	SLD0078-ICB1	CubeData_04072023@1412-004	NA	04/06/23 12:27
MRL Check	BLD0117-MRL1	CubeData_04072023@1412-005	Solid	04/06/23 12:57
Blank	BLD0117-BLK1	CubeData_04072023@1412-006	Solid	04/06/23 13:27
LCS	BLD0117-BS1	CubeData_04072023@1412-007	Solid	04/06/23 13:58
Reference	BLD0117-SRM1	CubeData_04072023@1412-008	Solid	04/06/23 14:28
Calibration Check	SLD0078-CCV1	CubeData_04072023@1412-015	NA	04/06/23 18:00
Calibration Blank	SLD0078-CCB1	CubeData_04072023@1412-016	NA	04/06/23 18:30
LDW23-SS1000	23C0071-01	CubeData_04072023@1412-017	Solid	04/06/23 19:01
LDW23-SS1000	BLD0117-DUP3	CubeData_04072023@1412-018	Solid	04/06/23 19:31
LDW23-SS1000	BLD0117-MS2	CubeData_04072023@1412-019	Solid	04/06/23 20:02
LDW23-SS1037	23C0071-02	CubeData_04072023@1412-020	Solid	04/06/23 20:32
LDW23-SS1036	23C0071-03	CubeData_04072023@1412-021	Solid	04/06/23 21:03
LDW23-SS1044	23C0071-04	CubeData_04072023@1412-022	Solid	04/06/23 21:33
LDW23-SS1048	23C0071-05	CubeData_04072023@1412-023	Solid	04/06/23 22:04
LDW23-SS1054	23C0071-06	CubeData_04072023@1412-024	Solid	04/06/23 22:34
LDW23-SC1054	23C0071-08	CubeData_04072023@1412-025	Solid	04/06/23 23:05
LDW23-SC1048	23C0071-09	CubeData_04072023@1412-026	Solid	04/06/23 23:35
Calibration Check	SLD0078-CCV2	CubeData_04072023@1412-027	NA	04/07/23 00:06
Calibration Blank	SLD0078-CCB2	CubeData_04072023@1412-028	NA	04/07/23 00:36
LDW23-SC1036	23C0071-10	CubeData_04072023@1412-029	Solid	04/07/23 01:07
Calibration Check	SLD0078-CCV3	CubeData_04072023@1412-039	NA	04/07/23 06:11
Calibration Blank	SLD0078-CCB3	CubeData_04072023@1412-040	NA	04/07/23 06:42
Calibration Check	SLD0078-CCV4	CubeData_04072023@1412-050	NA	04/07/23 12:17
Calibration Blank	SLD0078-CCB4	CubeData_04072023@1412-051	NA	04/07/23 12:47

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
1	1	BLANK	1.00		CARBON	4/6/2023 10:25 AM	bl	0.000	25 371	0.000	0.000	4 487	12 084	0.000	0.000	1.0000	1.0000



Name:

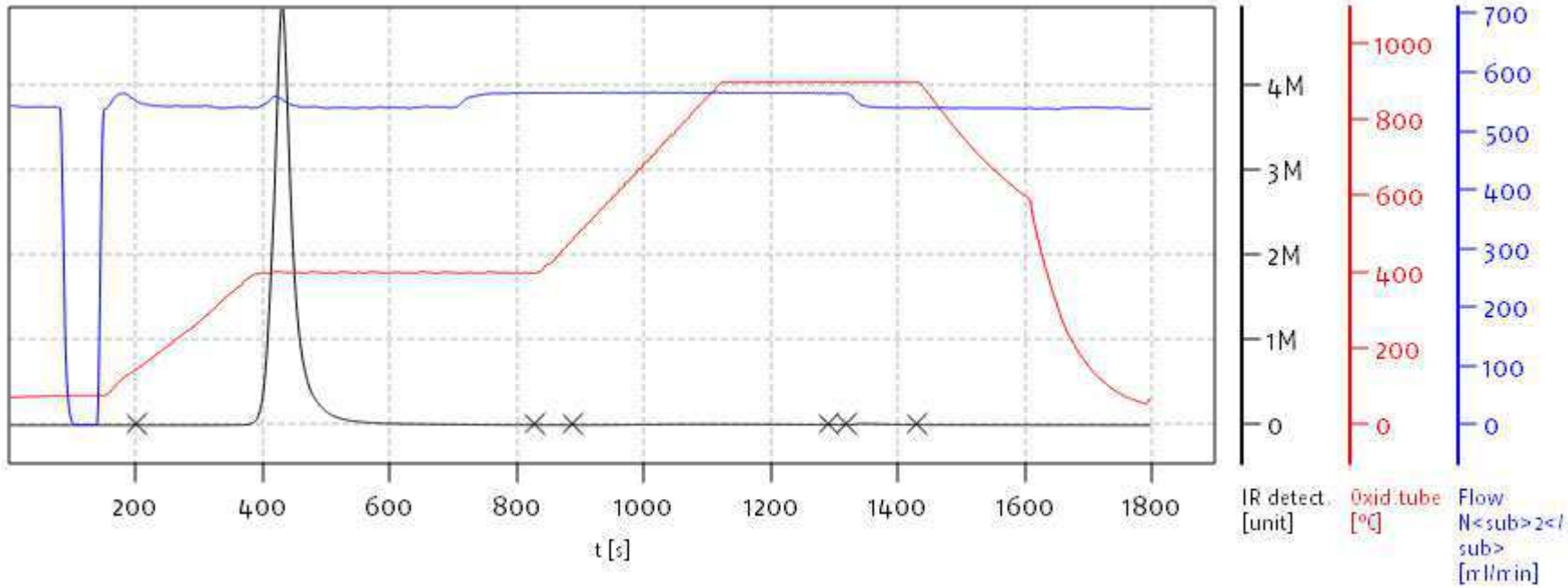
Access: soliTOC superuser

Date: Fri Apr 7 14:09:03 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
2	2	Dfactor	22.80		CARBON	4/6/2023 10:56 AM	bl	44.518	6 711 691	45.071	0.073	37 255	107 902	44.446	0.552	0.9792	1.0000



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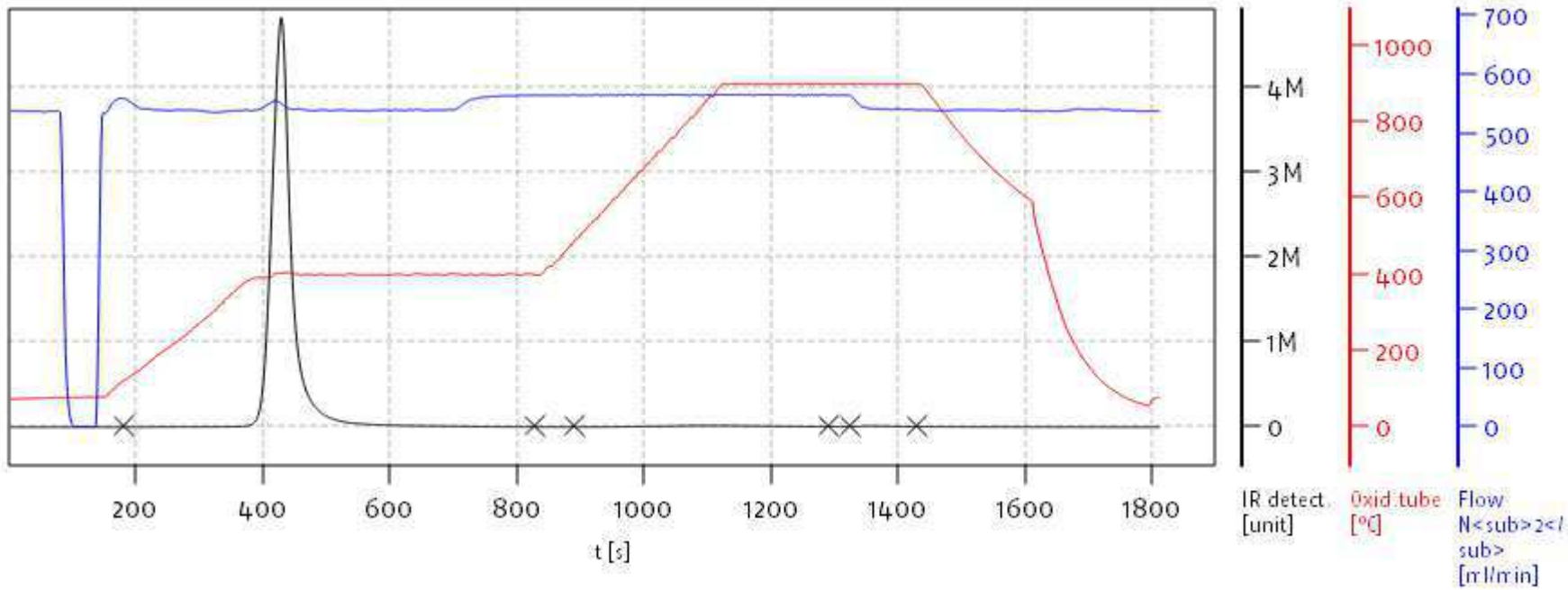
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
3	3	Dfactor	22.20		CARBON	4/6/2023 11:26 AM	bl	44.496	6 587 051	45.309	0.051	33 796	143 082	44.446	0.813	0.9715	1.0000



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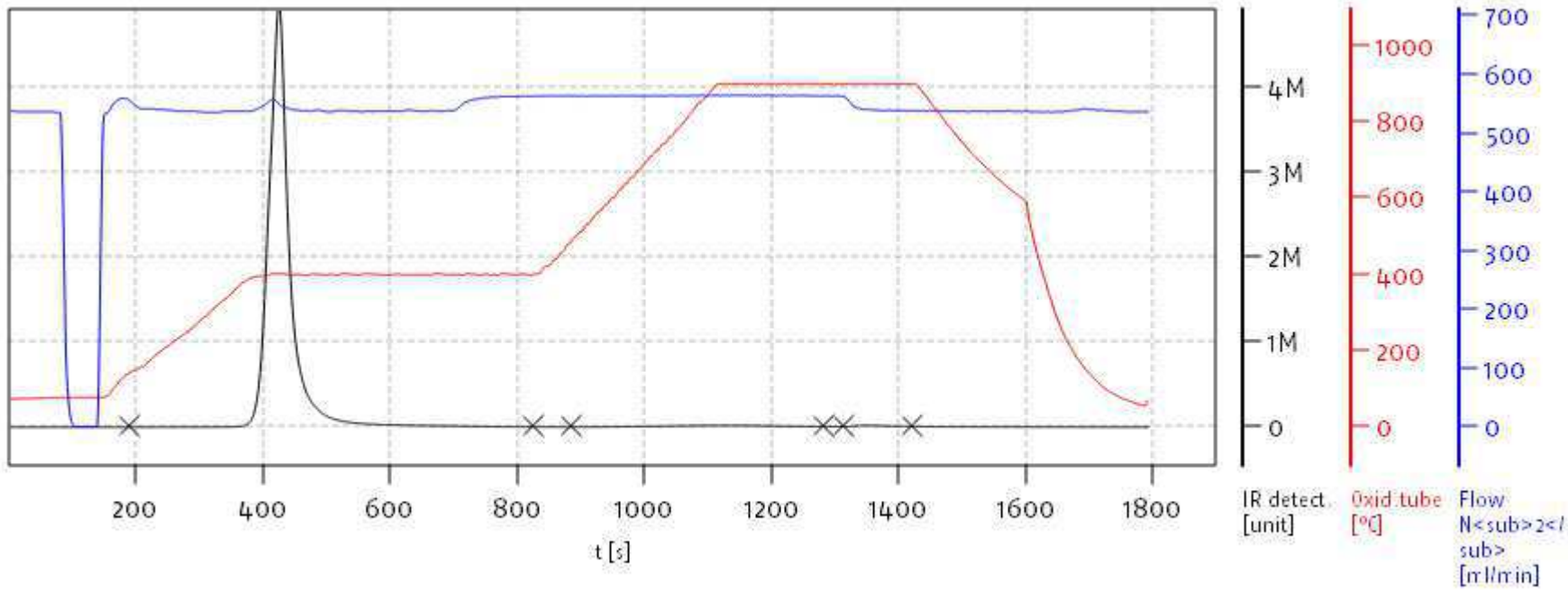
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
4	4	SLD0078-ICV1	24.70		CARBON	4/6/2023 11:57 AM	bl	43.454	7 110 575	44.263	0.149	50 324	155 627	43.305	0.809	0.9754	1.0000



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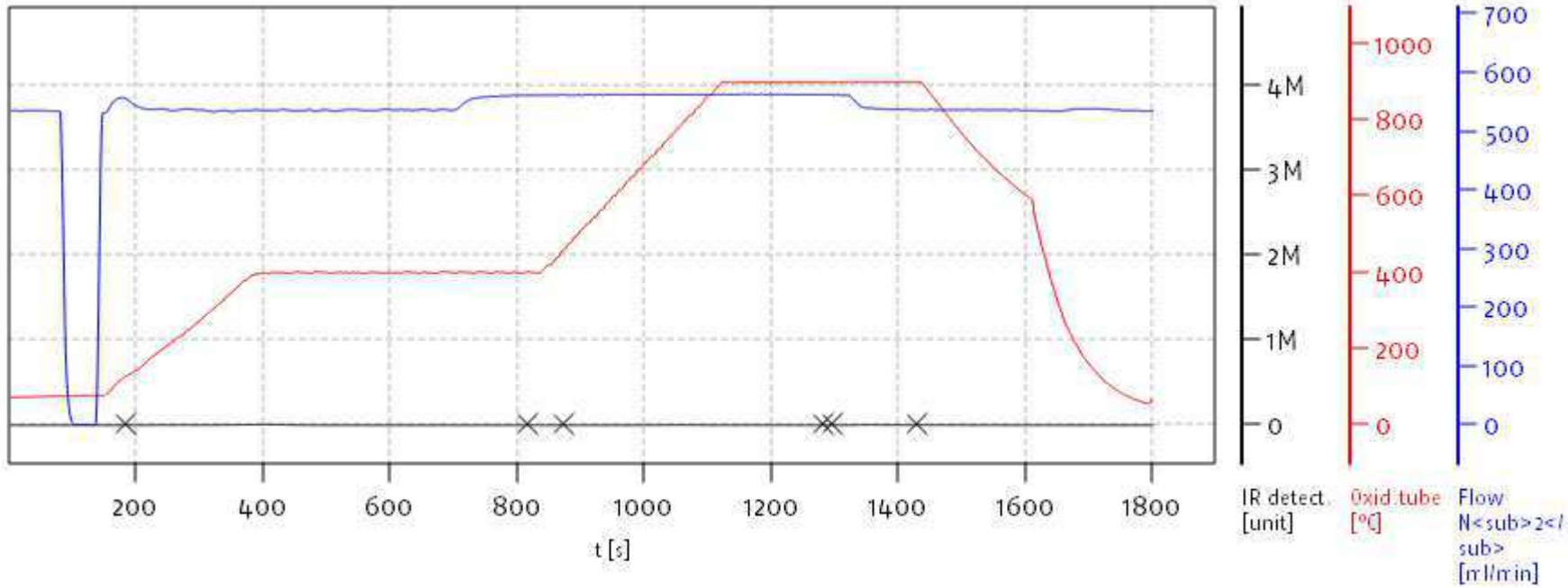
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
5	5	SLD0078-ICB1	502.20		CARBON	4/6/2023 12:27 PM	bl	0.002	33 768	0.002	0.000	11 057	13 585	0.002	0.000	0.9754	1.0000



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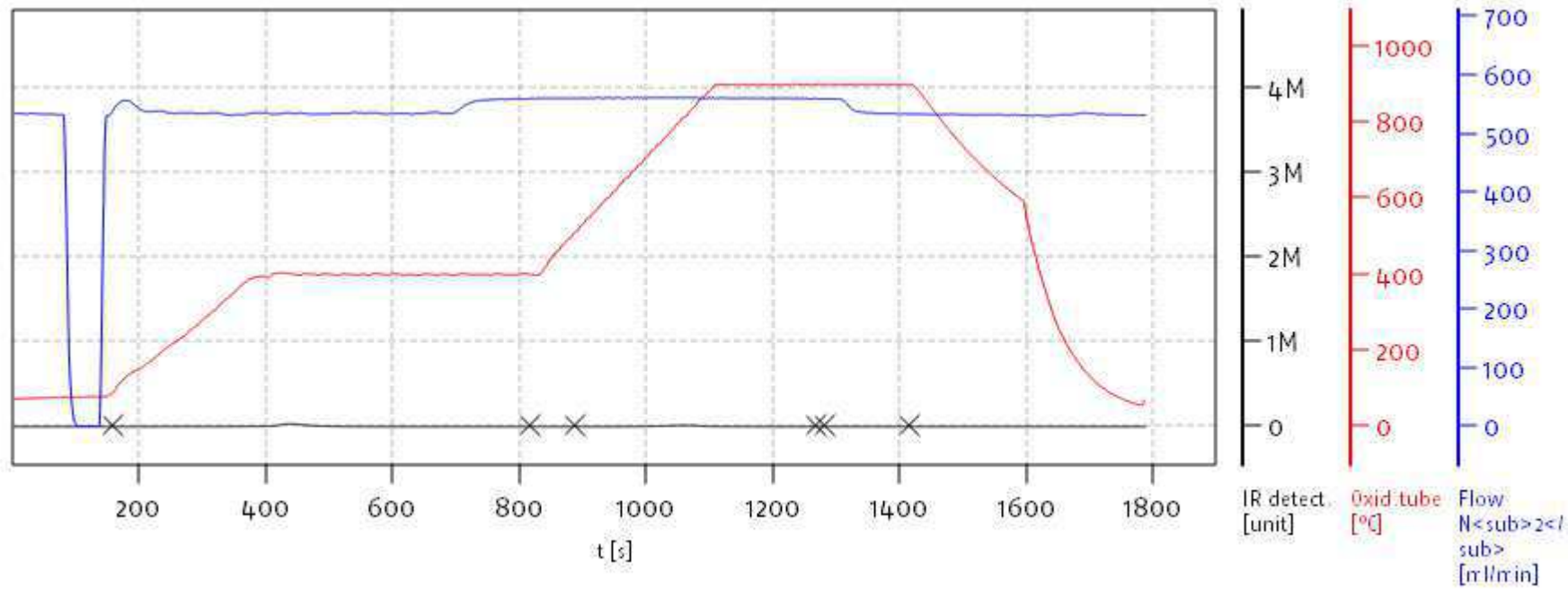
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
6	6	BLD0117-MRL1	500.60		CARBON	4/6/2023 12:57 PM	bl,C2u	0.016	79 706	0.021	0.000	2 221	41 515	0.016	0.005	0.9754	1.0000



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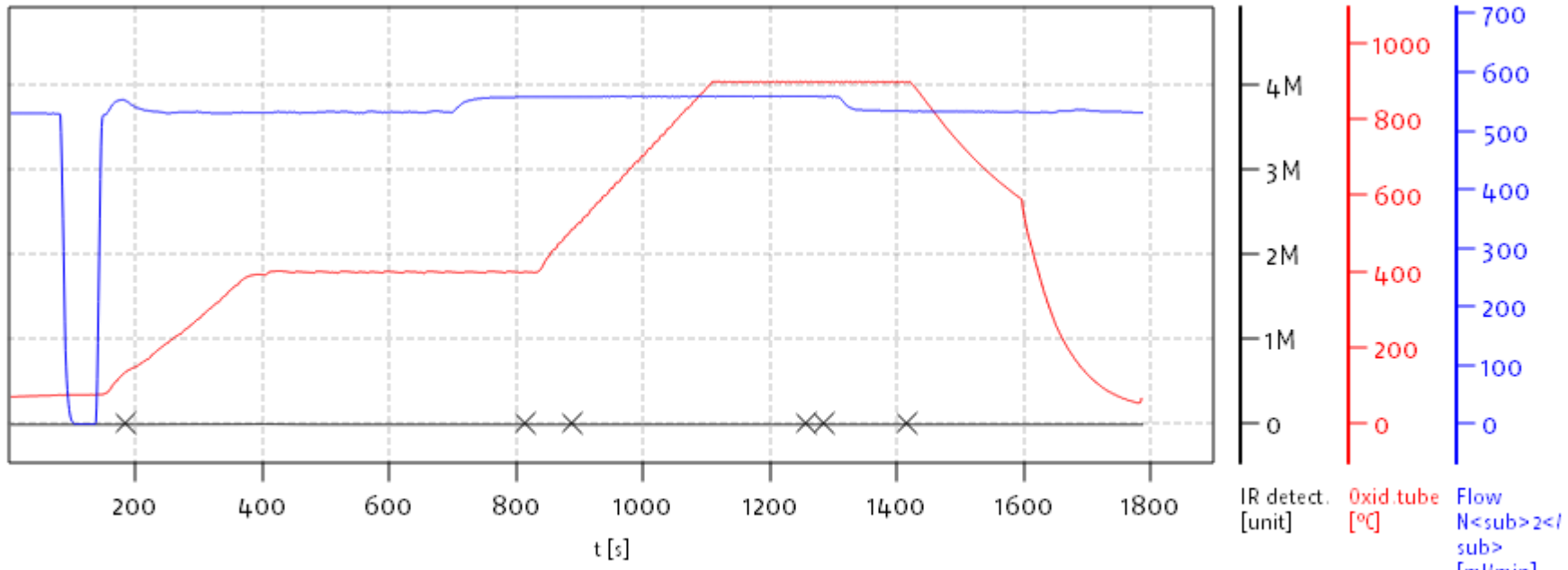
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
7	7	BLD0117-BLK1	562.20		CARBON	4/6/2023 1:27 PM	bl,C2u	0.000	26 033	0.000	0.000	1 538	3 526	0.000	0.000	0.9754	1.0000



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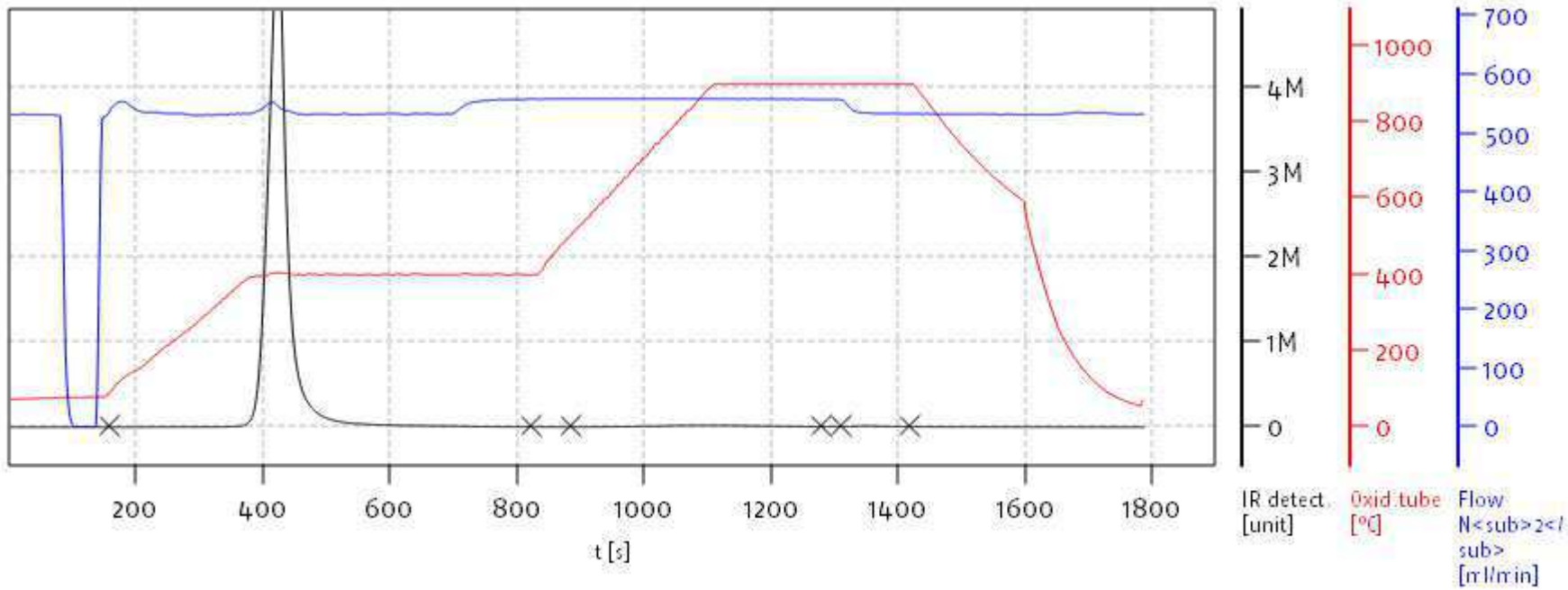
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
8	8	BLD0117-BS1	25.50		CARBON	4/6/2023 1:58 PM	bl	45.342	7 676 112	46.175	0.047	34 230	163 878	45.295	0.834	0.9754	1.0000



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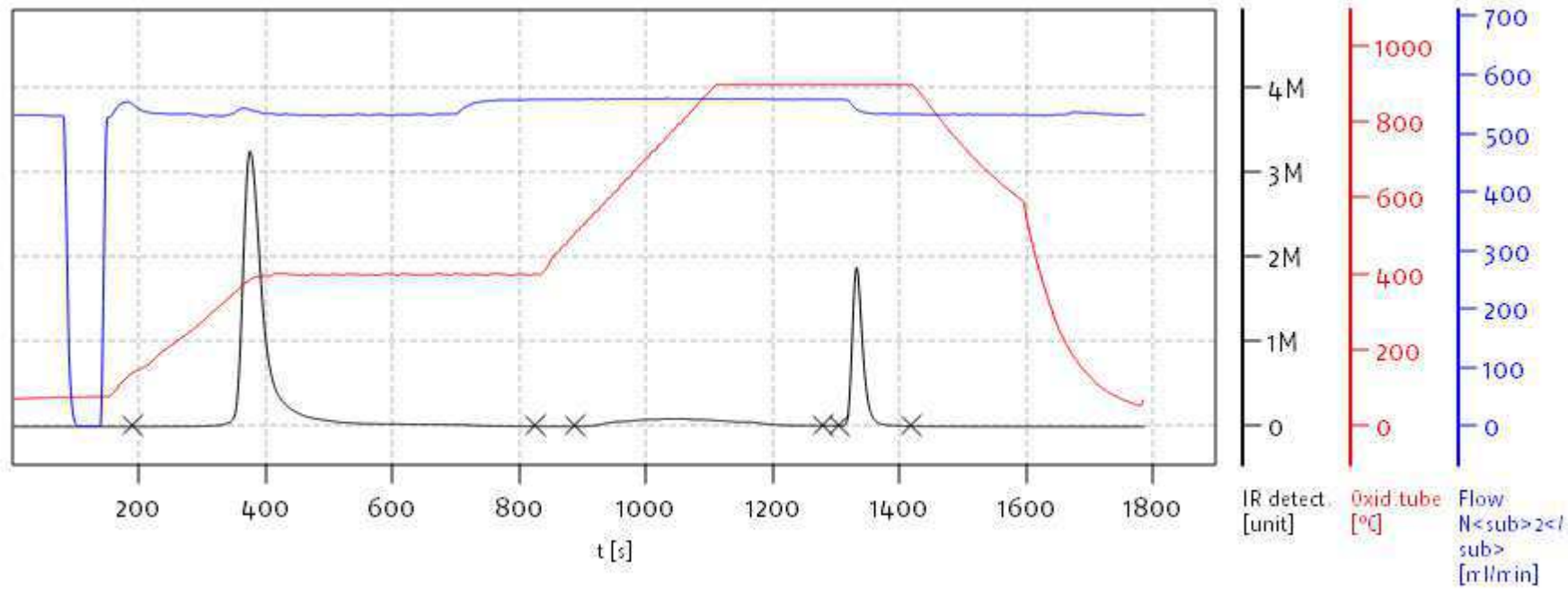
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
9	9	BLD0117-SRM1	311.10		CARBON	4/6/2023 2:28 PM	bl	3.027	4 879 224	3.383	0.672	1 377 361	741 965	2.355	0.356	0.9754	1.0000



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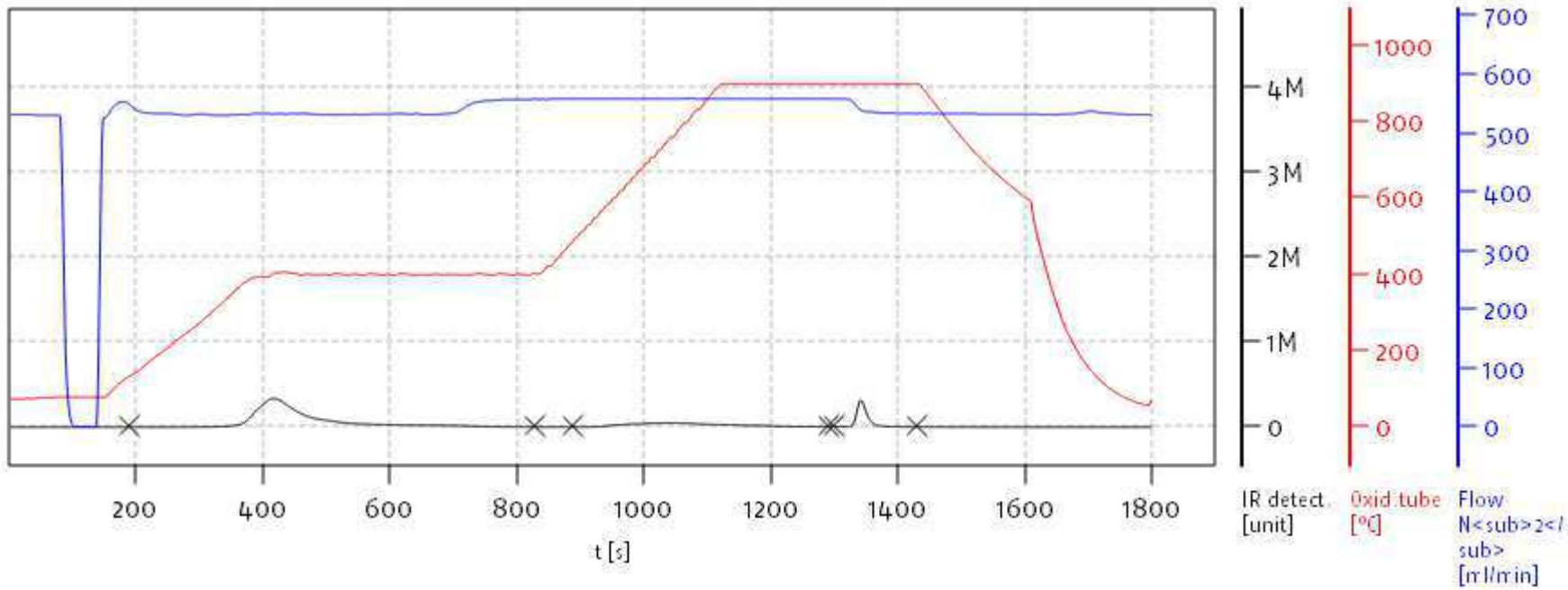
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
10	10	23C0002-01	611.90		CARBON	4/6/2023 2:58 PM	bl	0.358	1 265 153	0.439	0.052	233 235	347 229	0.306	0.081	0.9754	1.0000



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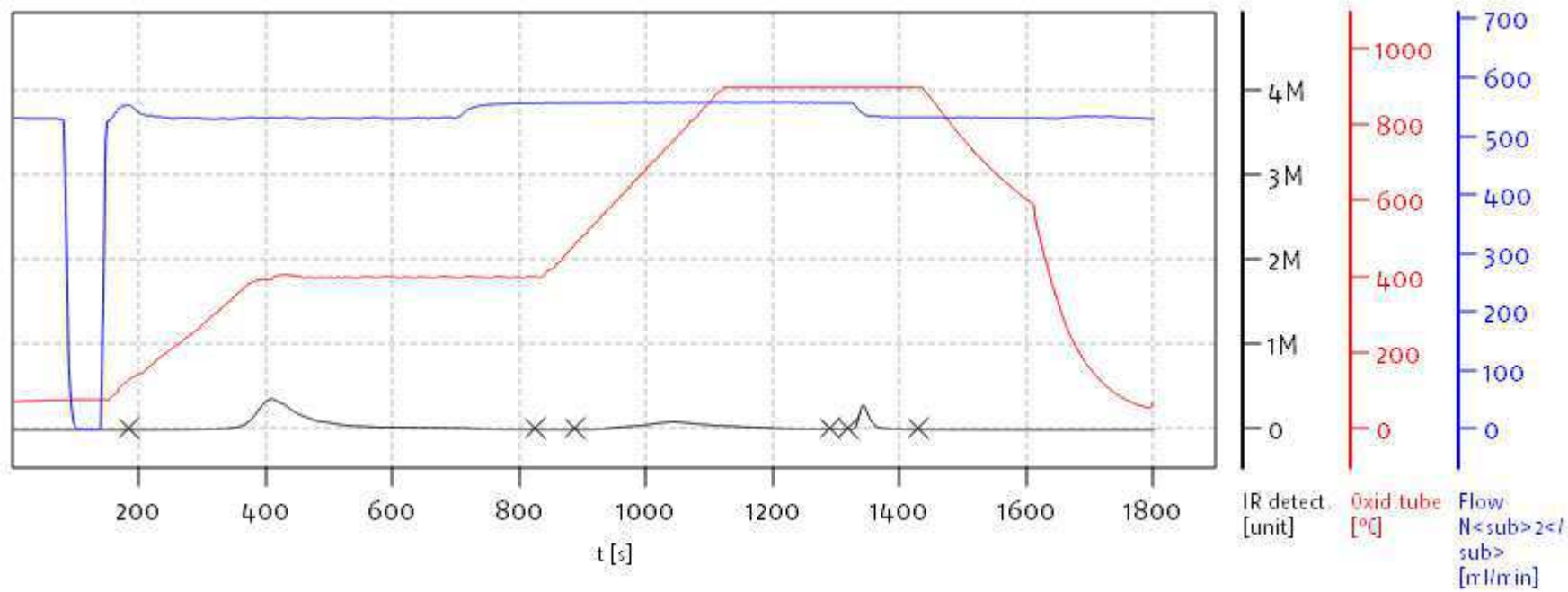
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
11	11	BLD0117-DUP1	630.00		CARBON	4/6/2023 3:28 PM	bl	0.362	1 339 840	0.484	0.047	218 851	521 567	0.315	0.122	0.9754	1.0000



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Date: Fri Apr 7 14:09:03 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

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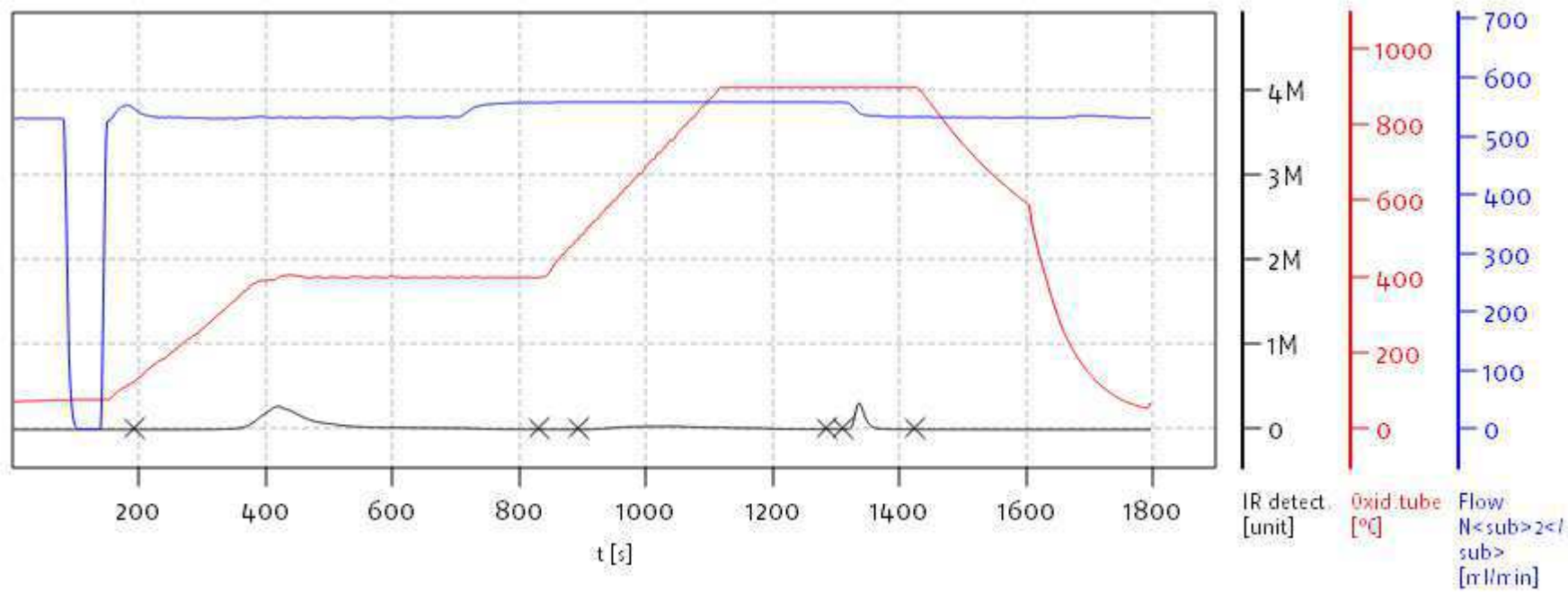
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
12	12	BLD0117-DUP2	504.70		CARBON	4/6/2023 3:59 PM	bl	0.364	1 042 421	0.442	0.060	221 218	282 188	0.304	0.078	0.9754	1.0000



Name:

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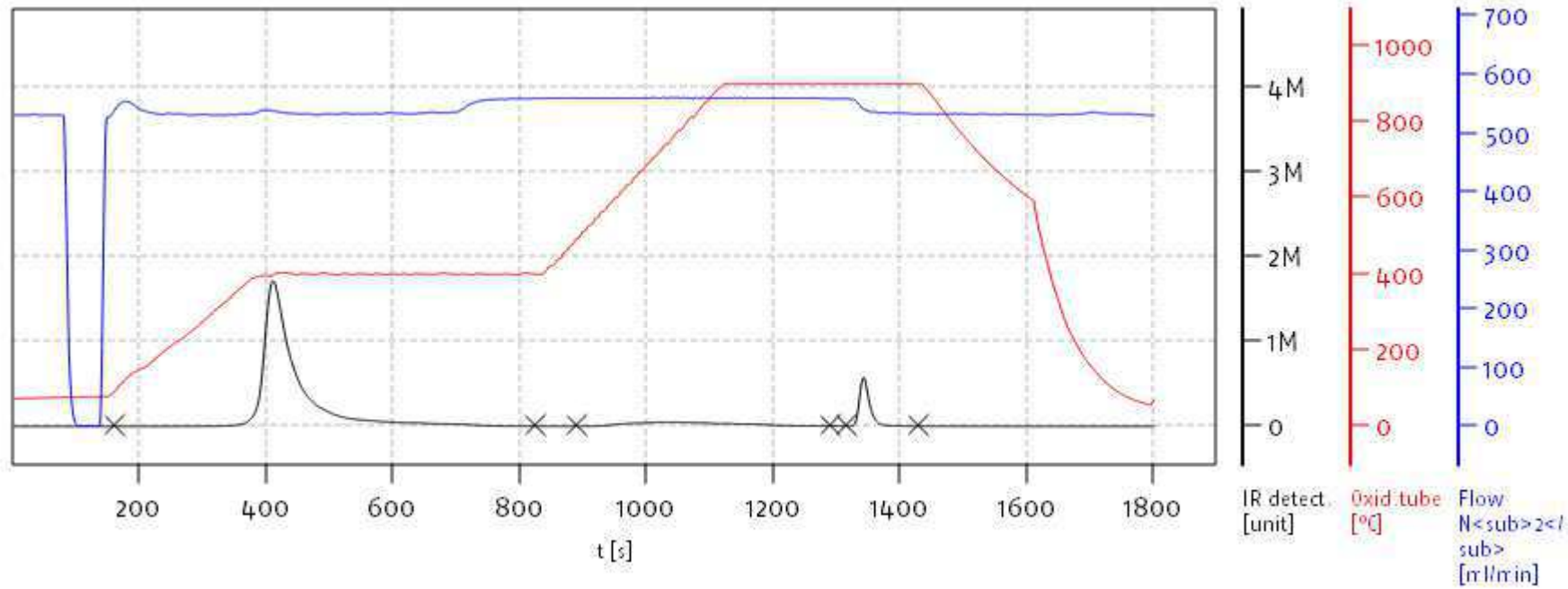
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
13	13	BLD0117-MS1	513.90	0.0090	CARBON	4/6/2023 4:29 PM	bl	1.206	3 745 731	1.311	0.114	404 057	374 654	1.093	0.105	0.9754	1.0000



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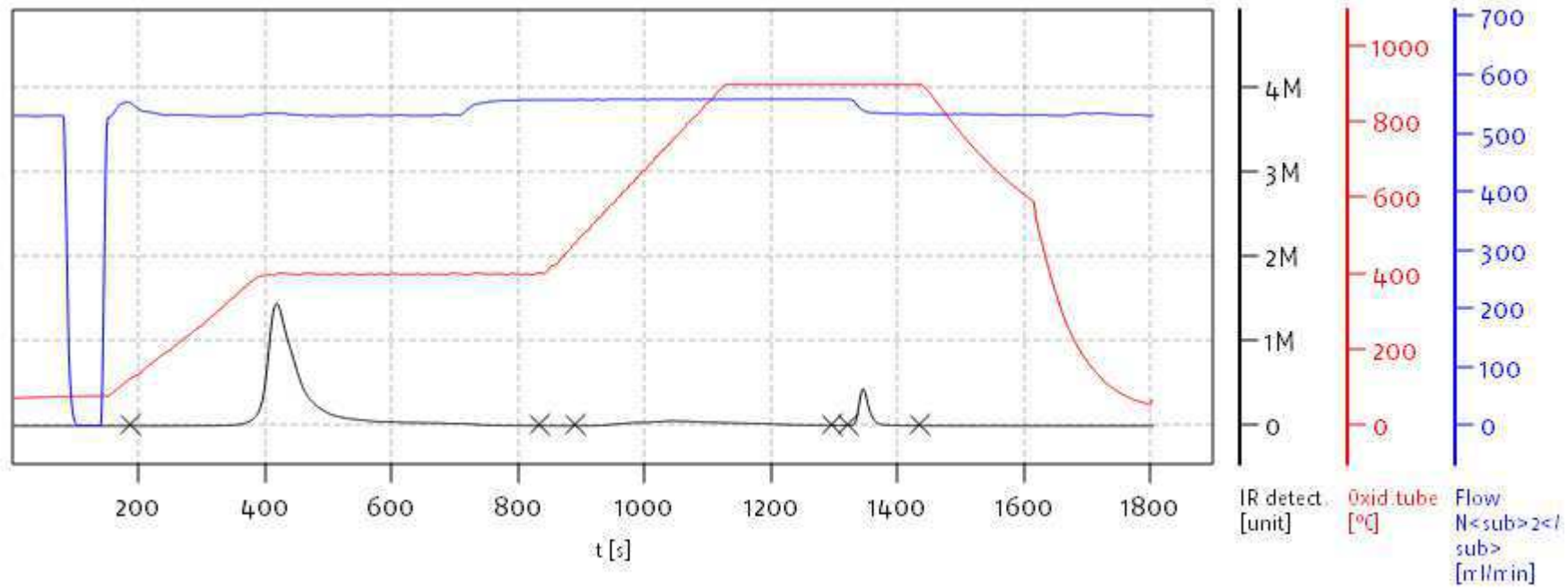
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
14	14	BLD0117-MSD1	513.10	0.0081	CARBON	4/6/2023 5:00 PM	bl	1.049	3 298 783	1.169	0.086	311 286	425 488	0.963	0.120	0.9754	1.0000



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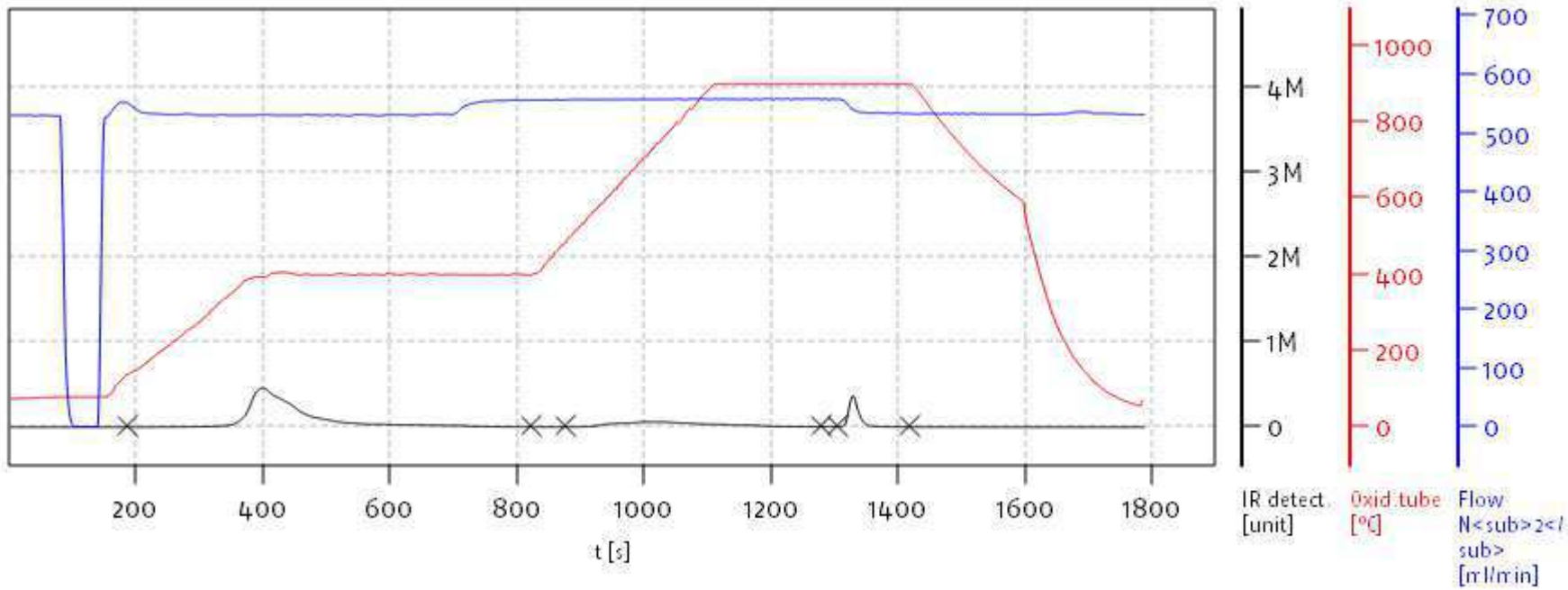
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
15	15	23C0002-02	539.20		CARBON	4/6/2023 5:30 PM	bl	0.520	1 648 967	0.634	0.065	254 005	424 360	0.454	0.114	0.9754	1.0000



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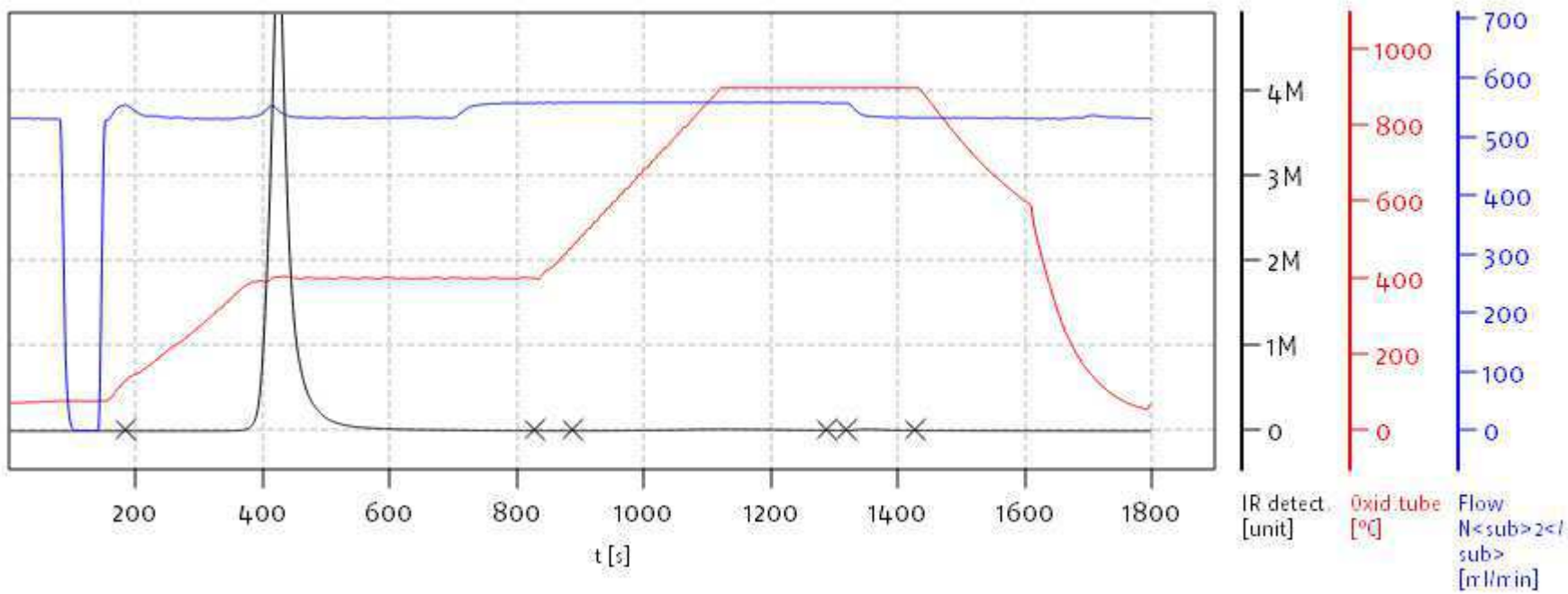
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
16	16	SLD0078-CCV1	25.60		CARBON	4/6/2023 6:00 PM	bl	44.445	7 543 148	45.266	0.112	44 989	162 299	44.334	0.821	0.9754	1.0000



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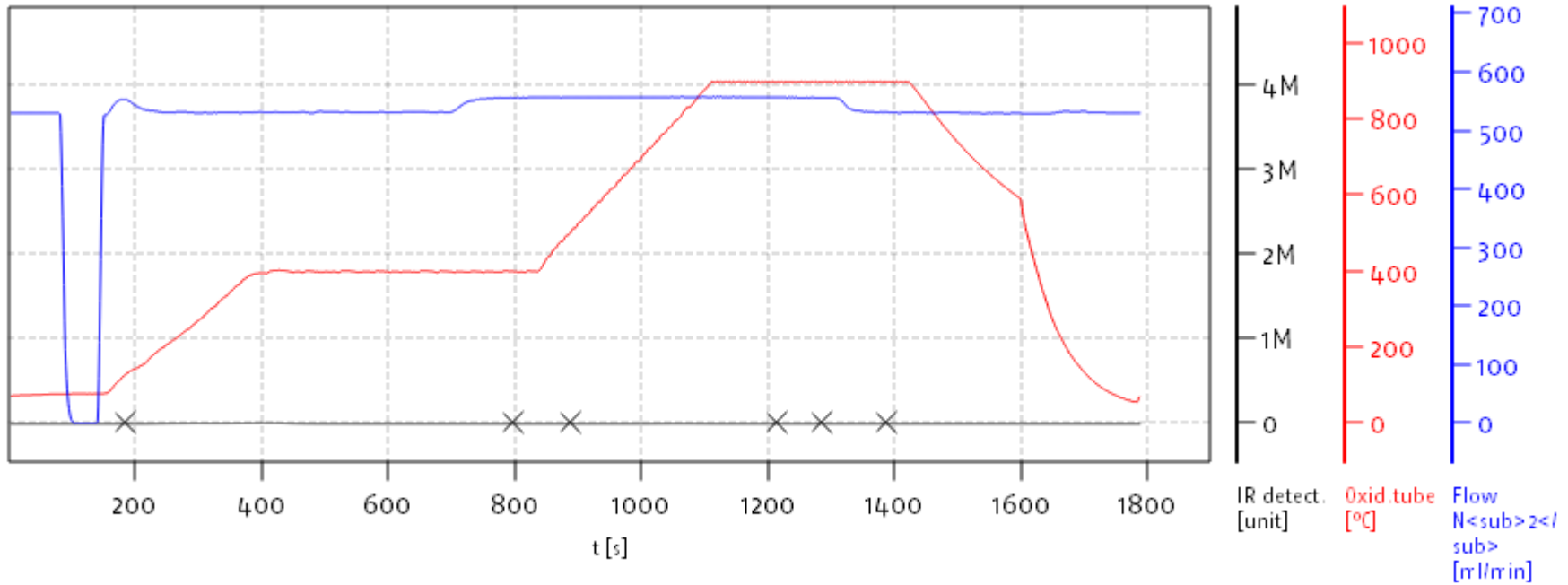
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
17	17	SLD0078-CCB1	543.80		CARBON	4/6/2023 6:30 PM	bl,C2u	0.005	44 591	0.005	0.000	1 310	7 400	0.005	0.000	0.9754	1.0000



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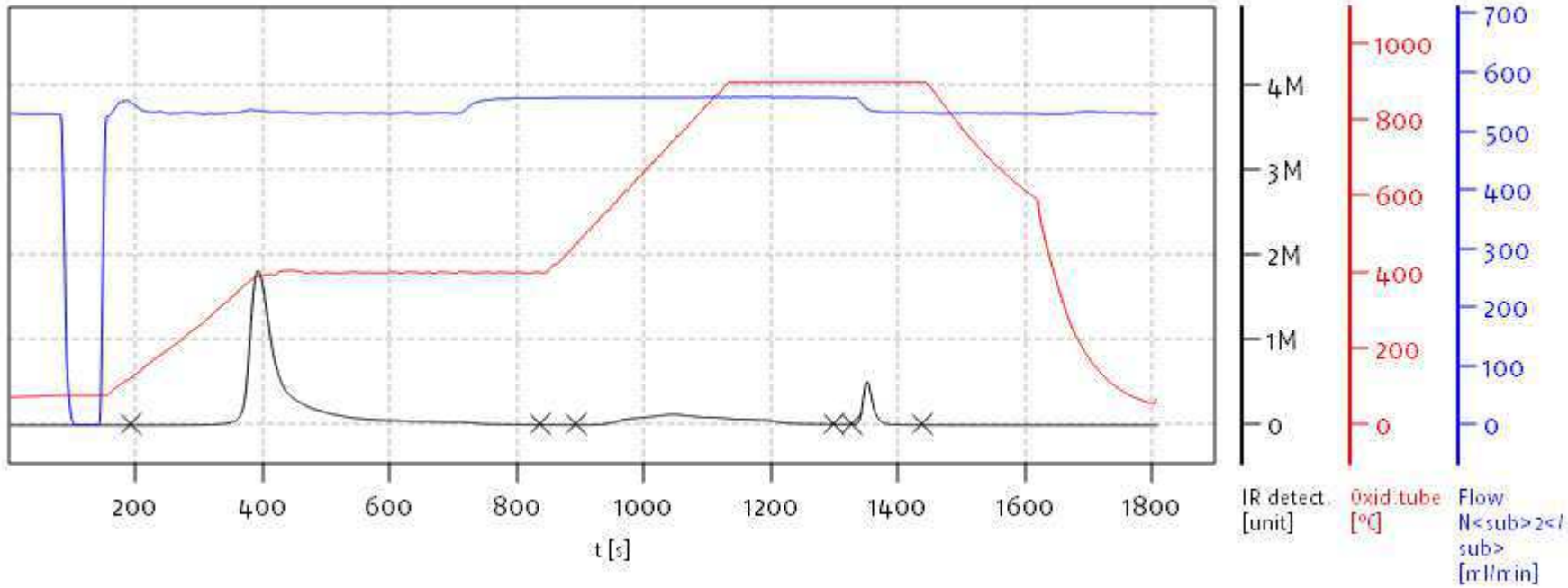
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
18	18	23C0071-01	525.90		CARBON	4/6/2023 7:01 PM	bl	1.203	3 876 620	1.462	0.098	358 309	906 505	1.105	0.259	0.9754	1.0000



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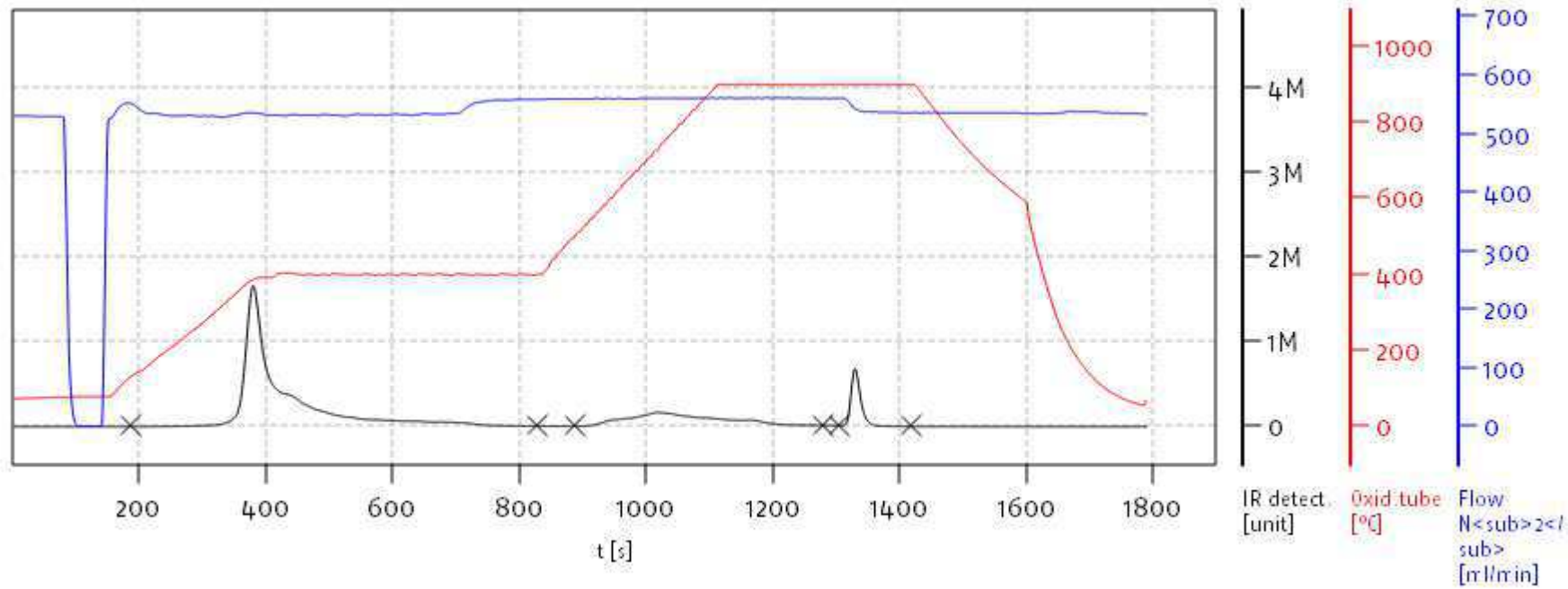
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
19	19	BLD0117-DUP3	502.80		CARBON	4/6/2023 7:31 PM	bl	1.250	3 740 979	1.584	0.134	462 508	1 113 323	1.115	0.335	0.9754	1.0000



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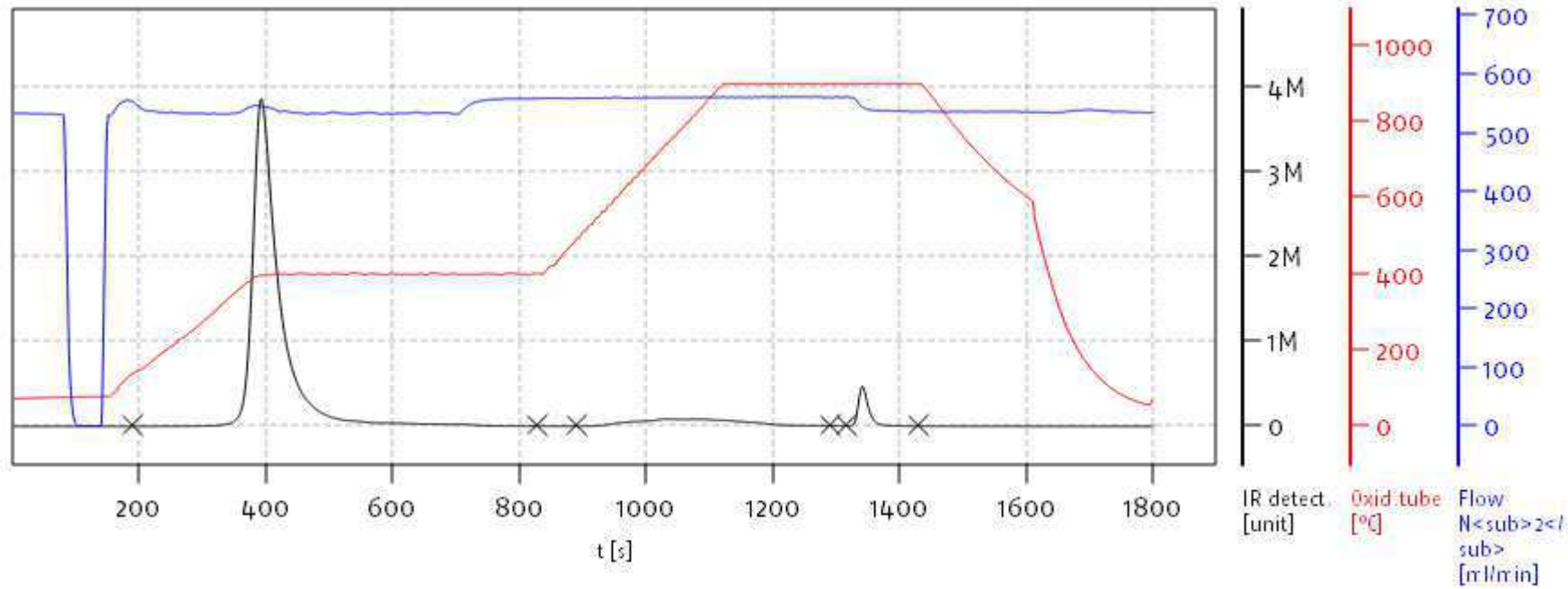
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
20	20	BLD0117-MS2	532.20	0.0082	CARBON	4/6/2023 8:02 PM	bl	2.079	7 038 726	2.266	0.090	336 161	666 624	1.989	0.186	0.9754	1.0000



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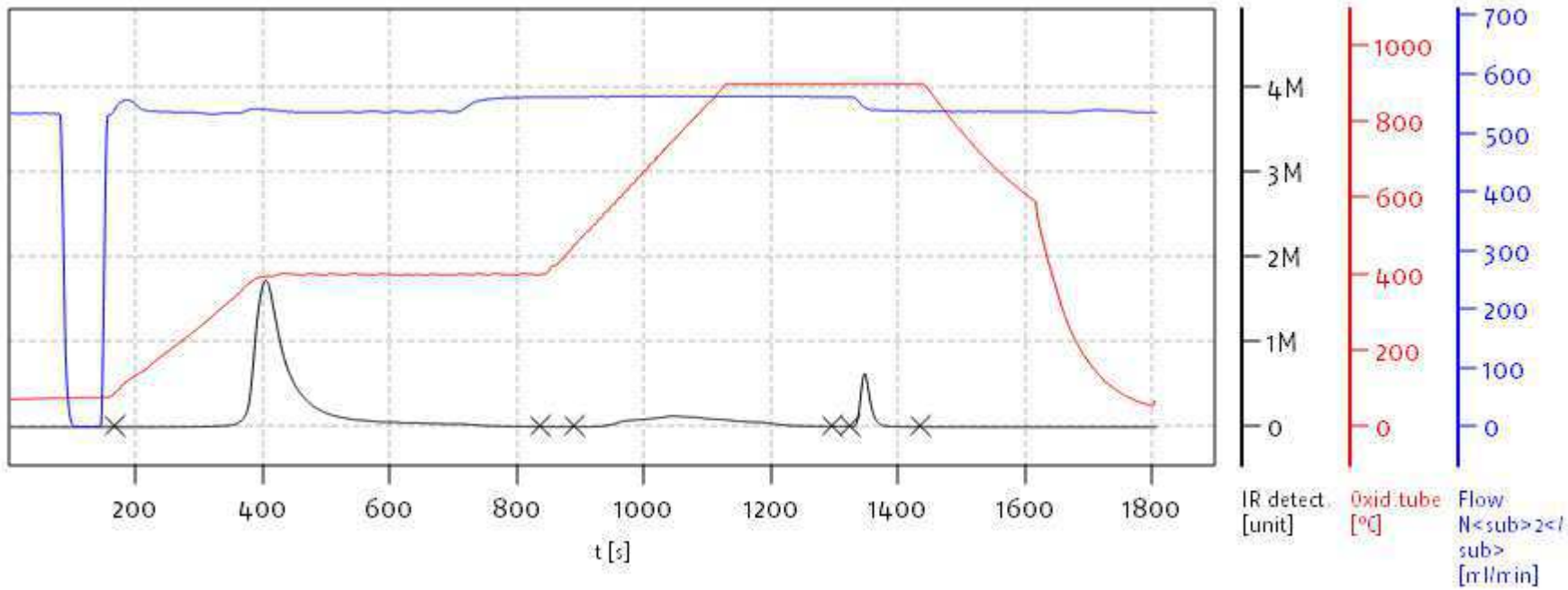
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
21	21	23C0071-02	544.40		CARBON	4/6/2023 8:32 PM	bl	1.280	4 232 105	1.532	0.113	424 263	912 704	1.166	0.252	0.9754	1.0000



Name:

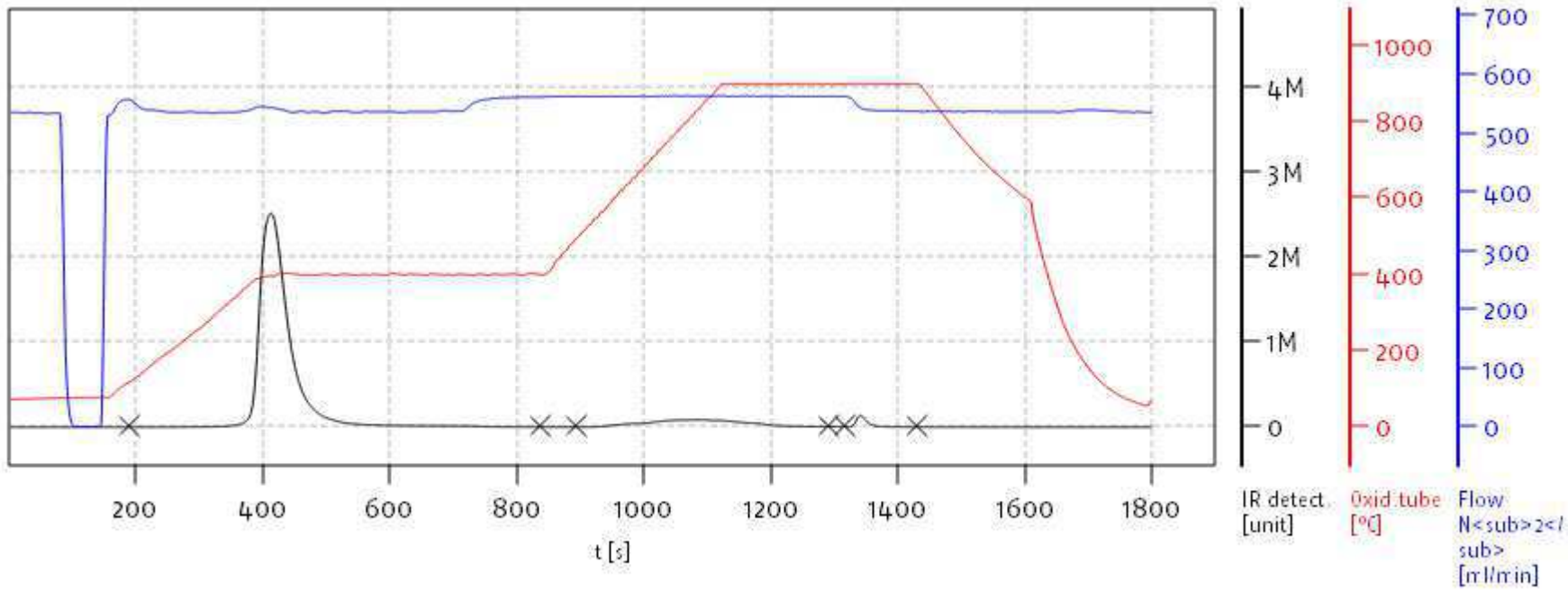
Access: soliTOC superuser

Date: Fri Apr 7 14:09:03 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
22	22	23C0071-03	516.40		CARBON	4/6/2023 9:03 PM	bl	1.496	5 063 355	1.672	0.024	105 010	613 605	1.473	0.176	0.9754	1.0000



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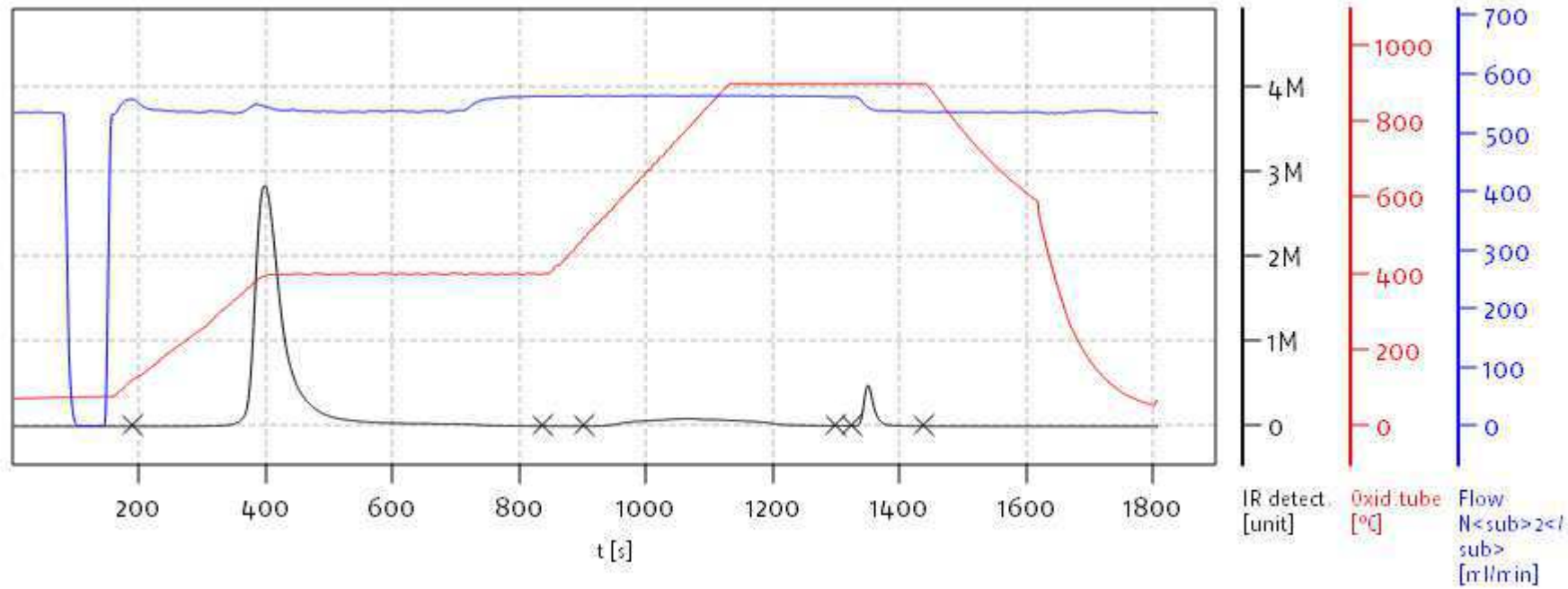
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
23	23	23C0071-04	519.50		CARBON	4/6/2023 9:33 PM	bl	1.729	5 650 279	1.928	0.094	342 701	694 428	1.635	0.199	0.9754	1.0000



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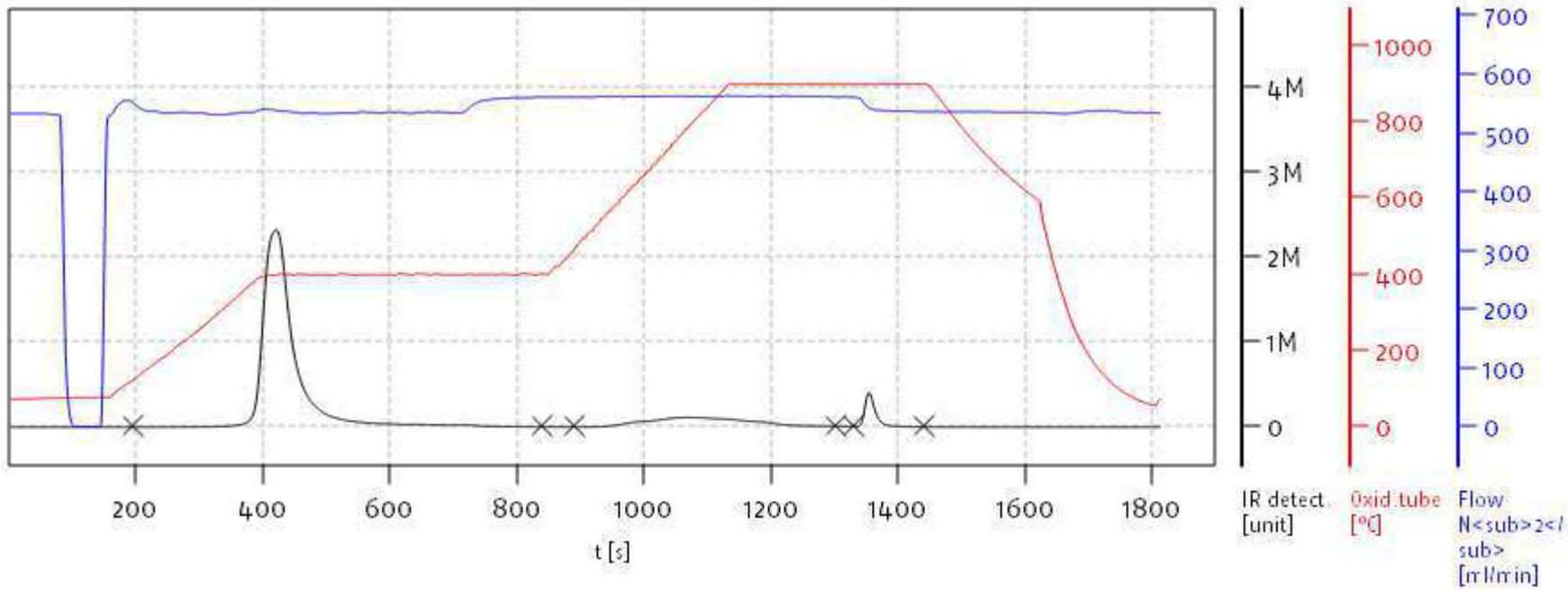
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
24	24	23C0071-05	600.50		CARBON	4/6/2023 10:04 PM	bl	1.297	4 903 980	1.507	0.070	299 568	840 820	1.226	0.210	0.9754	1.0000



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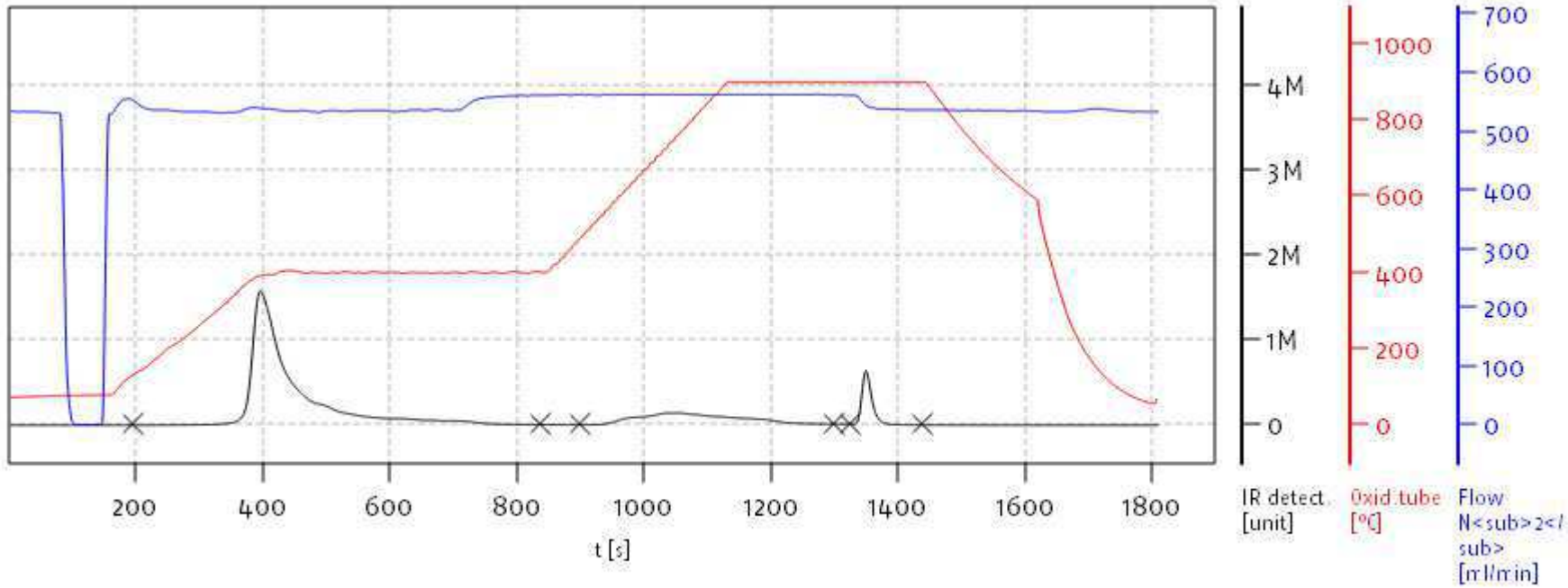
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
25	25	23C0071-06	559.50		CARBON	4/6/2023 10:34 PM	bl	1.249	4 220 569	1.532	0.118	451 800	1 045 985	1.132	0.282	0.9754	1.0000



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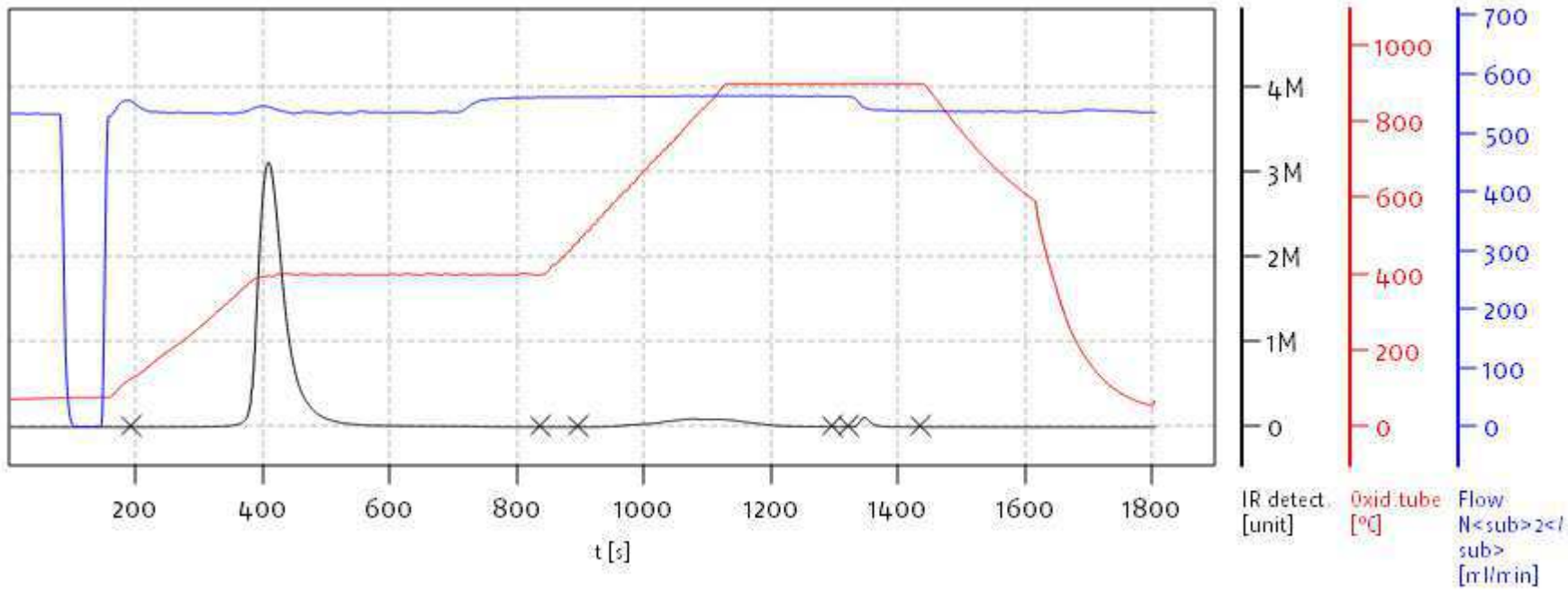
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
26	26	23C0071-08	539.90		CARBON	4/6/2023 11:05 PM	bl	1.628	5 783 562	1.791	0.018	88 712	594 963	1.610	0.163	0.9754	1.0000



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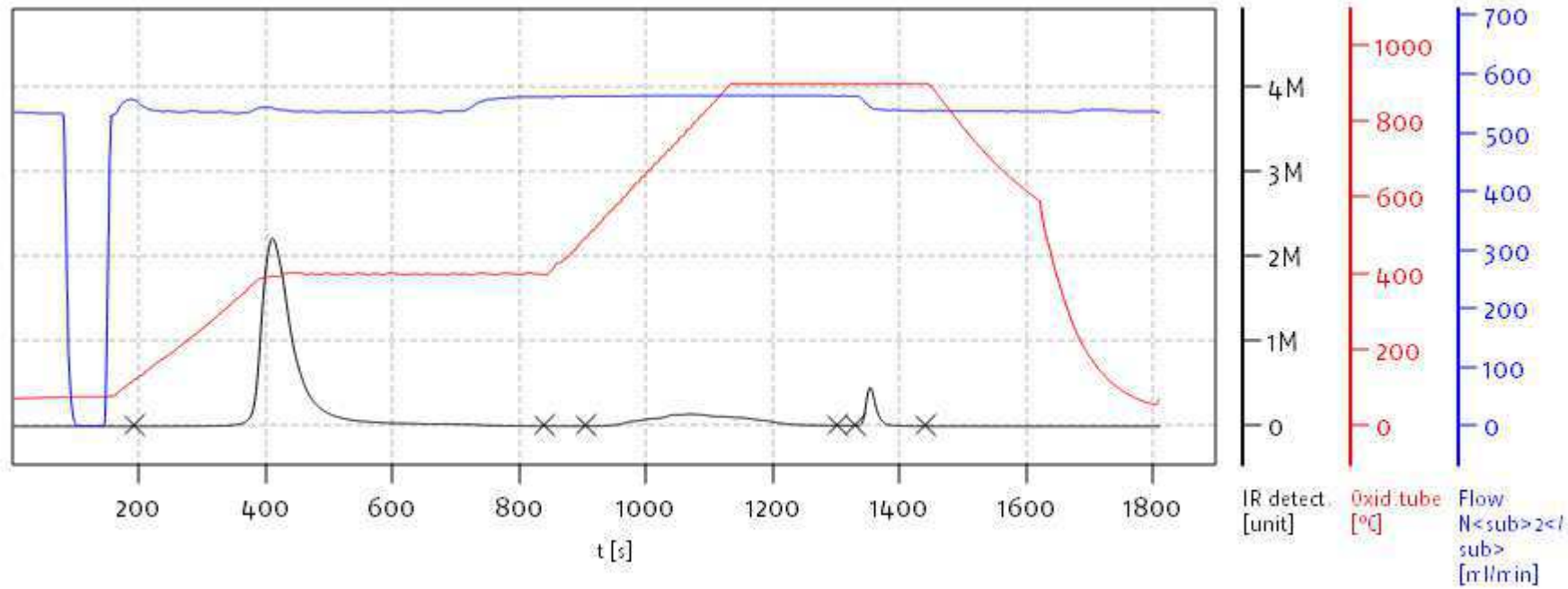
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
27	27	23C0071-09	561.60		CARBON	4/6/2023 11:35 PM	bl	1.416	4 984 161	1.686	0.083	328 729	1 005 524	1.333	0.270	0.9754	1.0000



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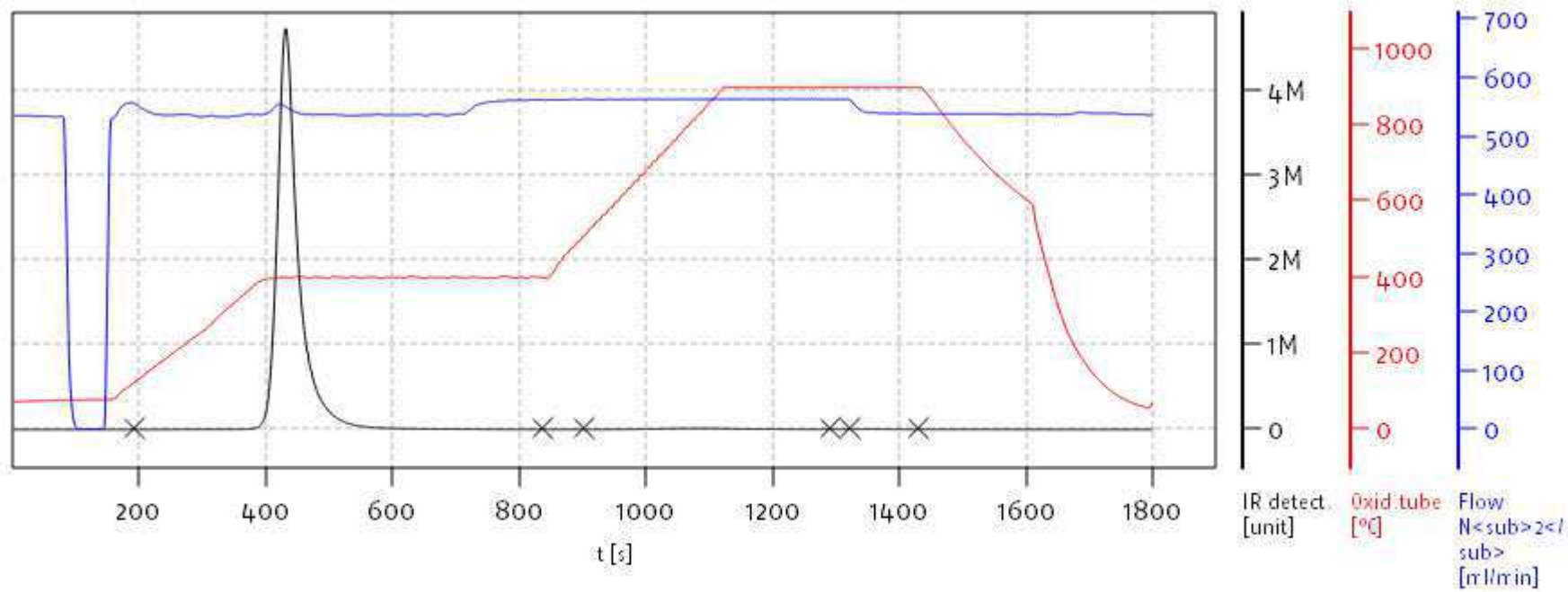
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
28	28	SLD0078-CCV2	22.60		CARBON	4/7/2023 12:06 AM	bl	45.809	6 883 119	46.250	0.000	13 667	90 901	45.809	0.441	0.9754	1.0000



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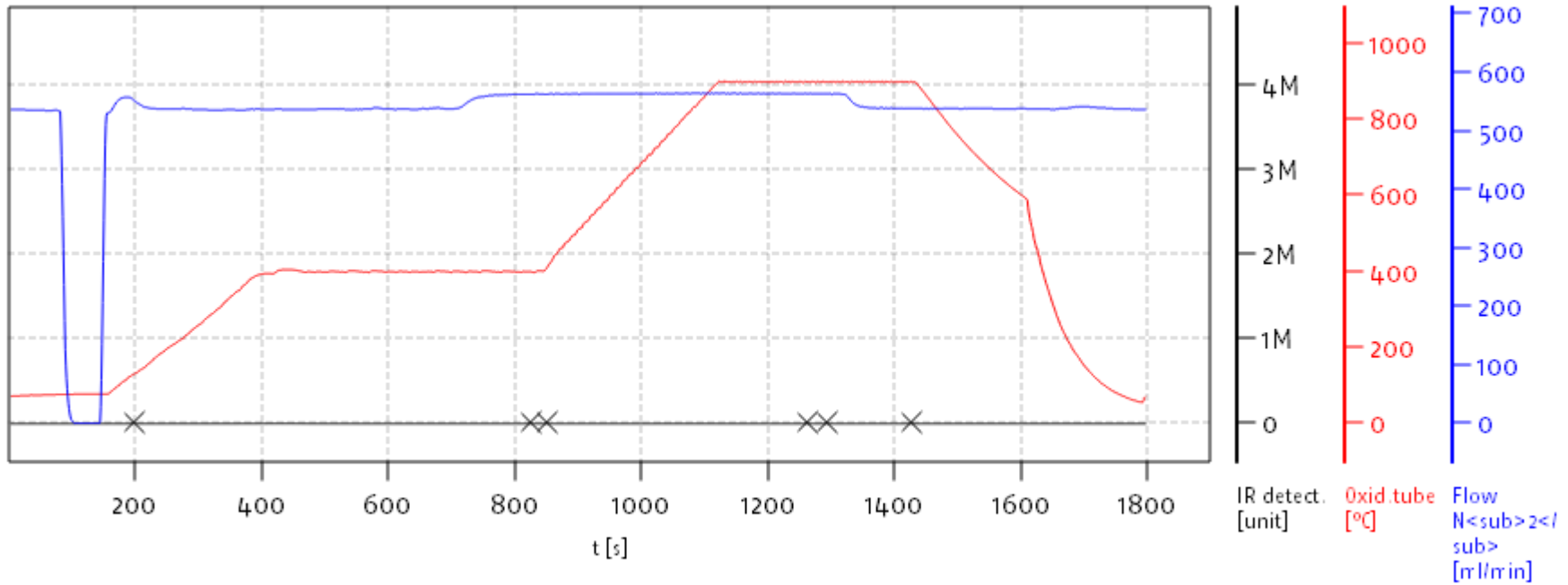
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
29	29	SLD0078-CCB2	573.30		CARBON	4/7/2023 12:36 AM	bl,C3u,C2u	0.000	7 813	0.000	0.000	584	804	0.000	0.000	0.9754	1.0000



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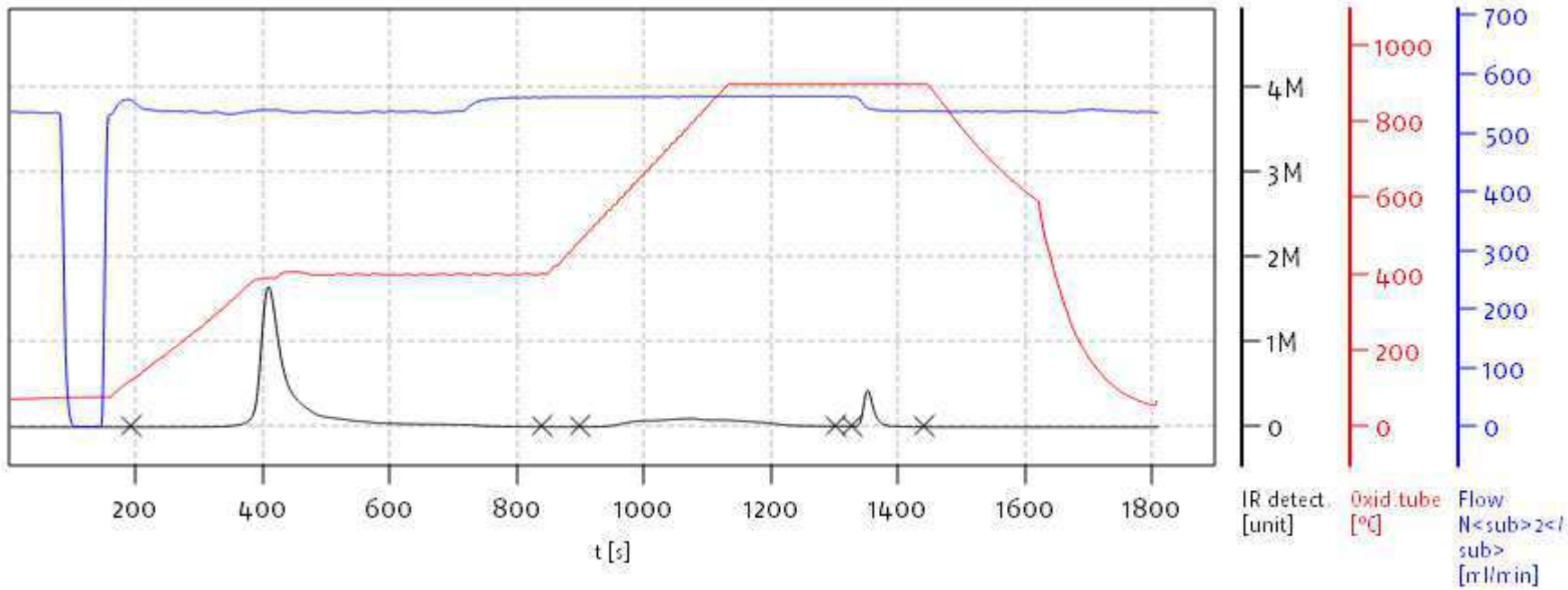
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
30	30	23C0071-10	530.40		CARBON	4/7/2023 1:07 AM	bl	0.967	3 124 489	1.185	0.085	318 029	772 711	0.882	0.218	0.9754	1.0000



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Soli TOC Cube, Carbon
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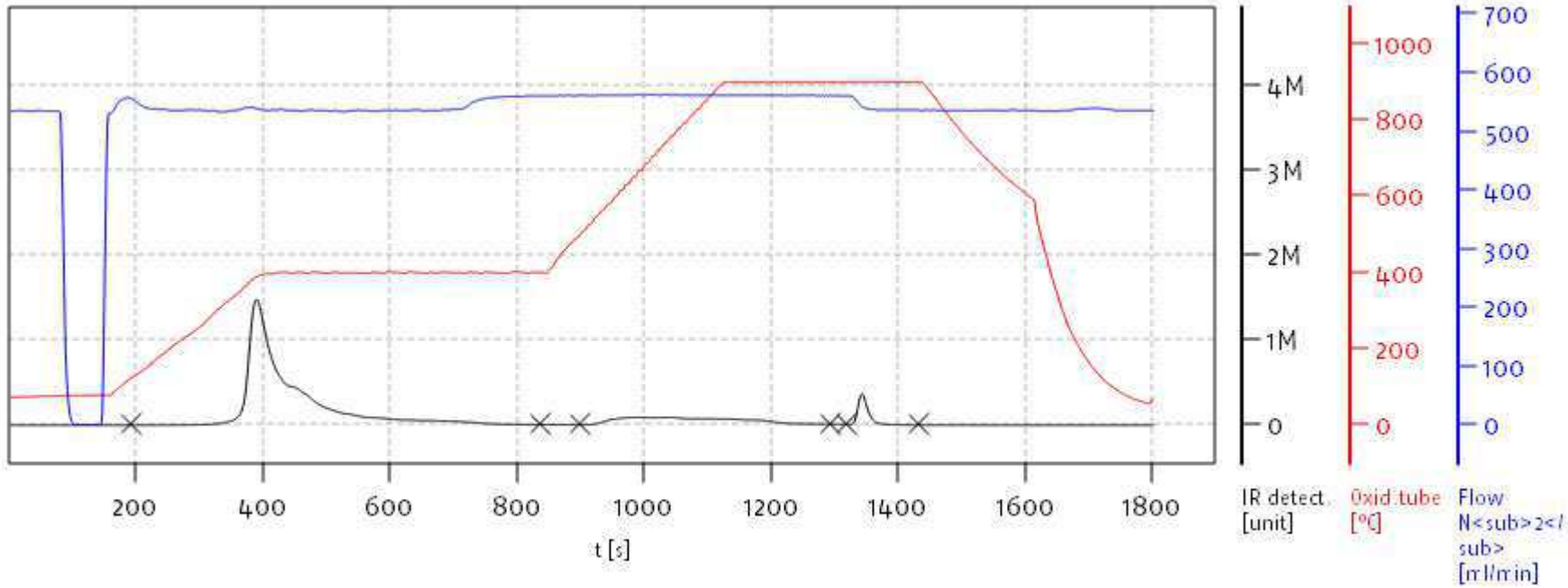
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
31	31	23C0107-01	615.40		CARBON	4/7/2023 1:37 AM	bl	1.026	3 966 911	1.229	0.060	263 285	831 203	0.967	0.202	0.9754	1.0000



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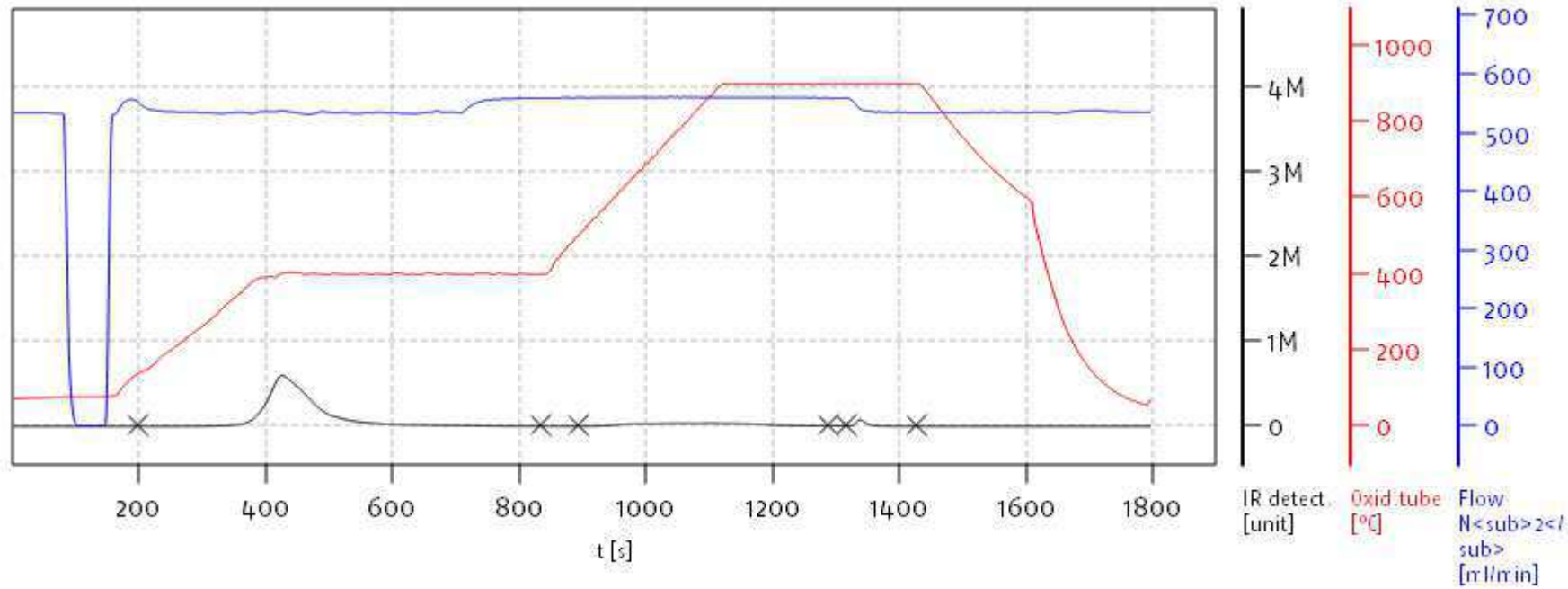
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
32	32	23C0107-02	517.50		CARBON	4/7/2023 2:07 AM	bl	0.580	1 980 067	0.670	0.010	59 517	327 643	0.570	0.090	0.9754	1.0000



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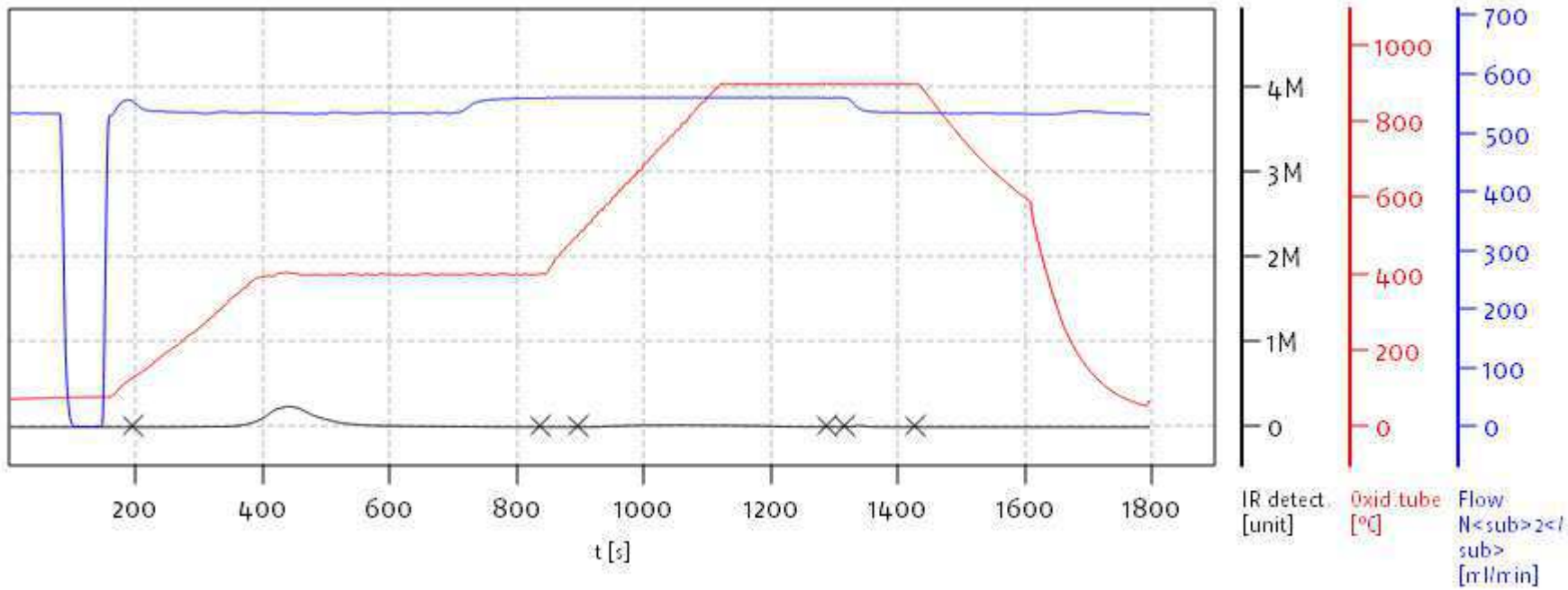
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
33	33	23C0107-03	515.70		CARBON	4/7/2023 2:38 AM	bl	0.272	956 373	0.323	0.000	15 058	195 860	0.272	0.051	0.9754	1.0000



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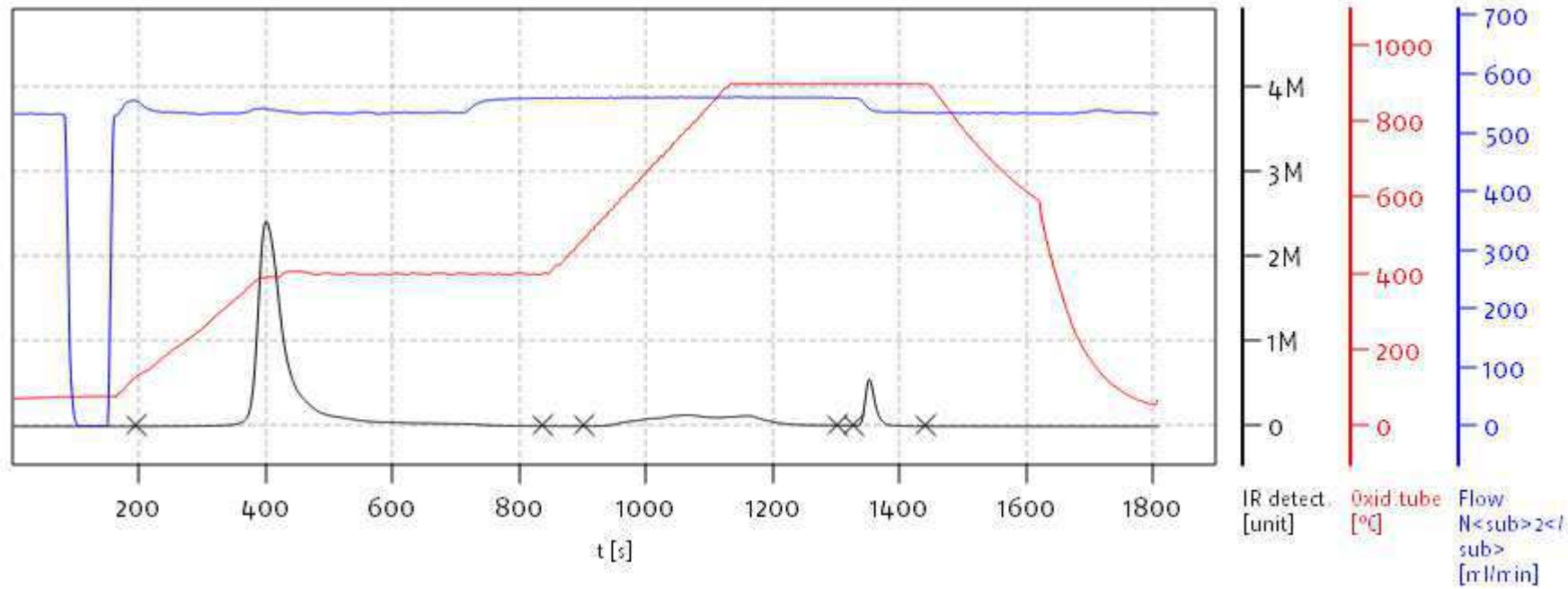
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
34	34	23C0108-01	532.00		CARBON	4/7/2023 3:08 AM	bl	1.444	4 738 246	1.732	0.106	392 325	1 017 914	1.337	0.288	0.9754	1.0000



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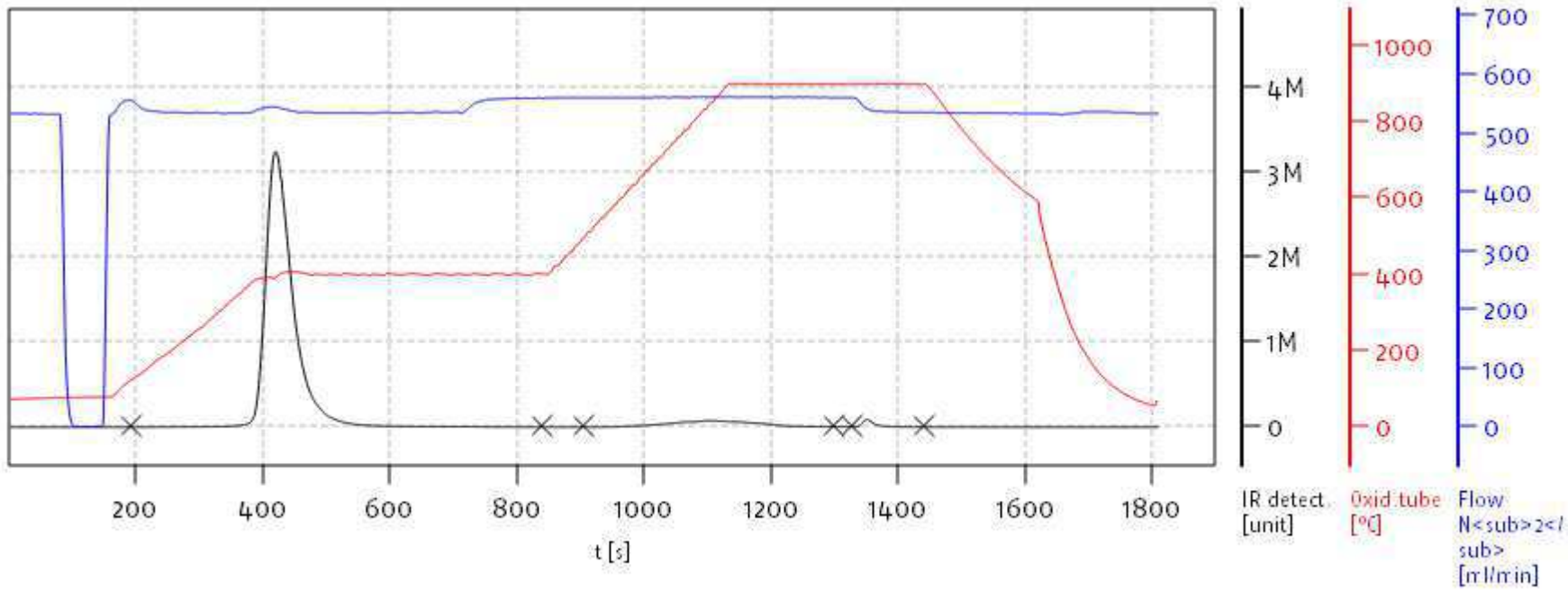
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
35	35	23C0108-02	547.30		CARBON	4/7/2023 3:39 AM	bl	1.676	6 050 716	1.798	0.014	76 463	455 757	1.662	0.121	0.9754	1.0000



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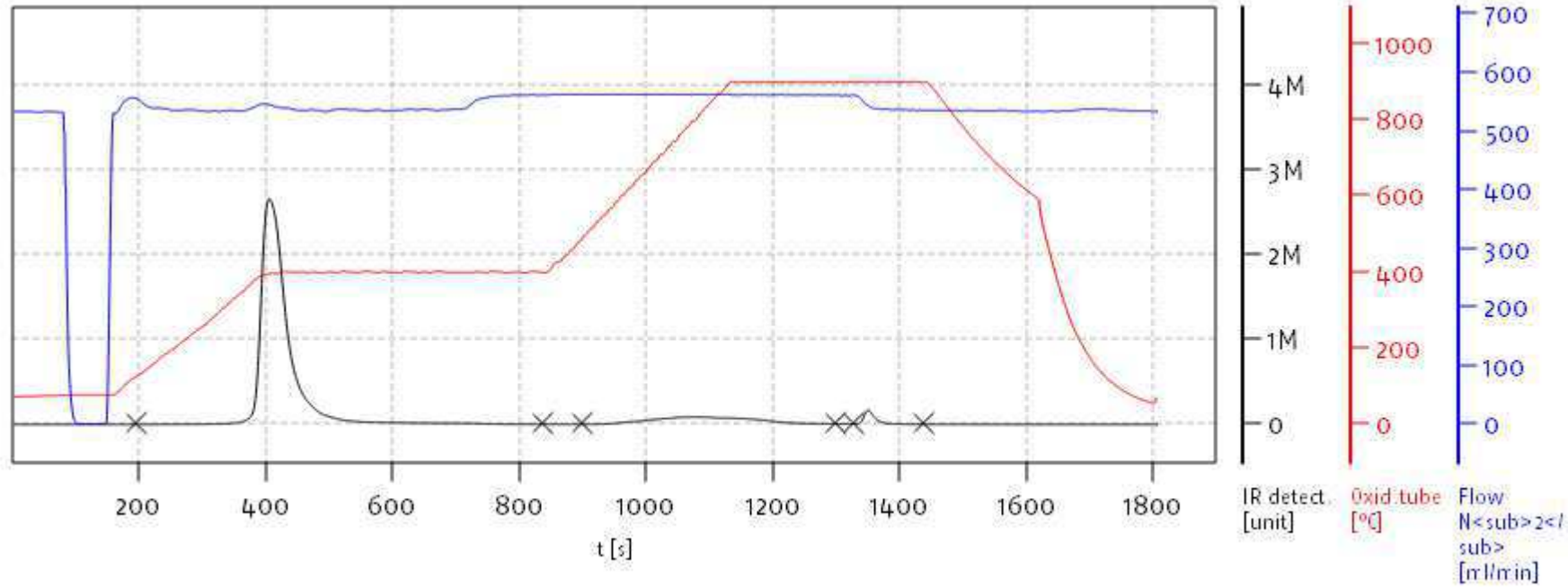
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
36	36	23C0108-03	534.00		CARBON	4/7/2023 4:09 AM	bl	1.380	4 795 899	1.560	0.031	133 443	650 661	1.349	0.181	0.9754	1.0000



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Balance: BAL3
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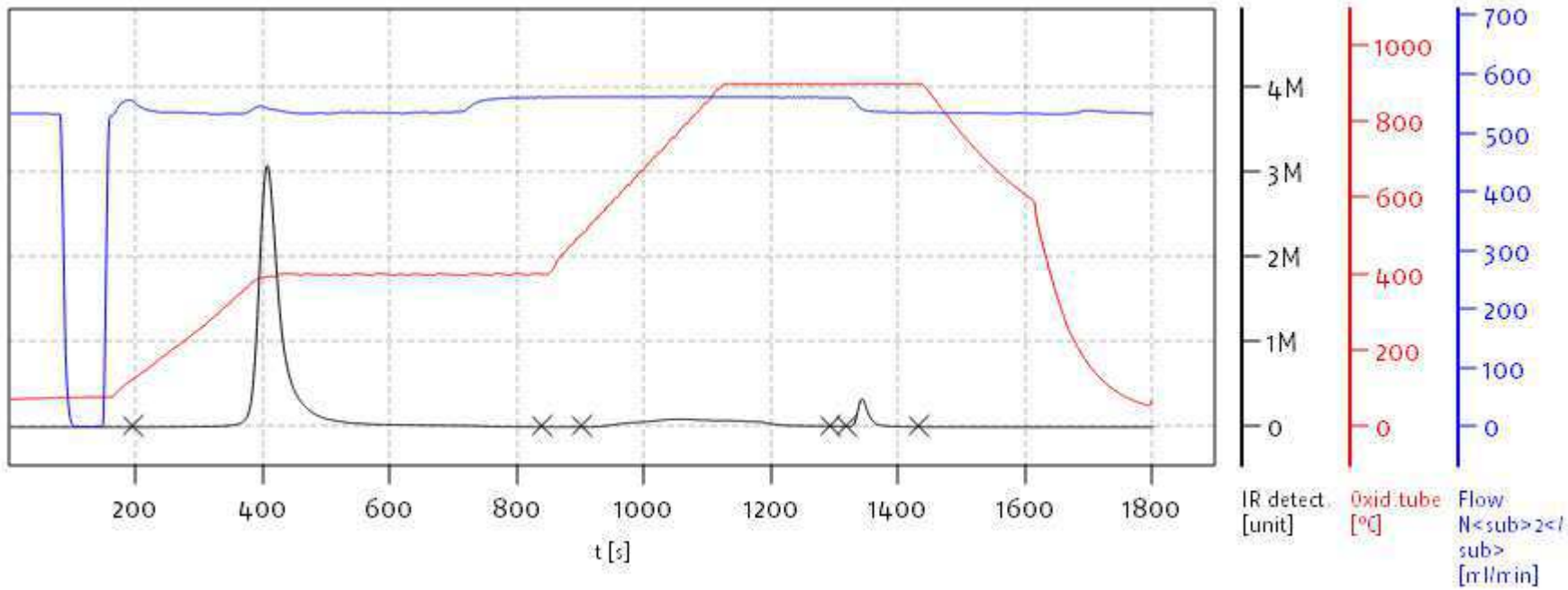
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
37	37	23C0108-04	542.40		CARBON	4/7/2023 4:40 AM	bl	1.422	4 896 325	1.624	0.066	257 866	734 963	1.356	0.202	0.9754	1.0000



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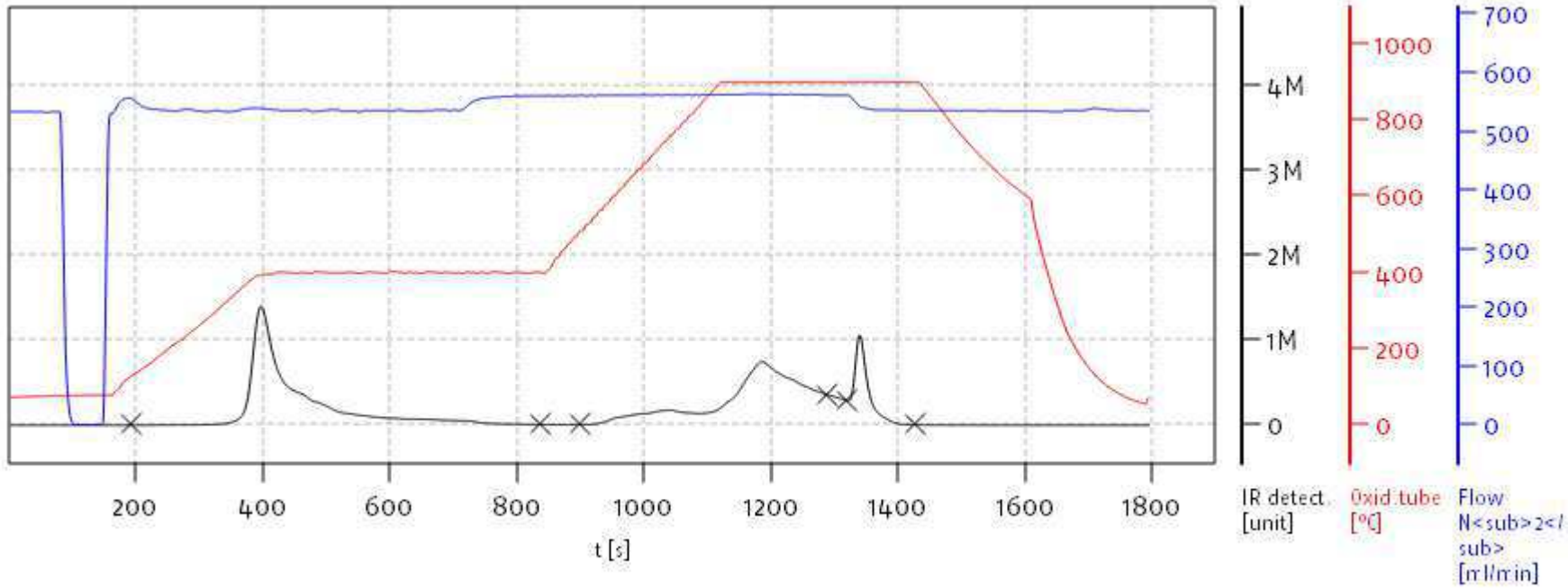
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
38	38	23C0108-05	596.90		CARBON	4/7/2023 5:10 AM	bl	1.225	3 824 434	2.291	0.265	1 047 474	4 133 408	0.961	1.065	0.9754	1.0000



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Balance: BAL3
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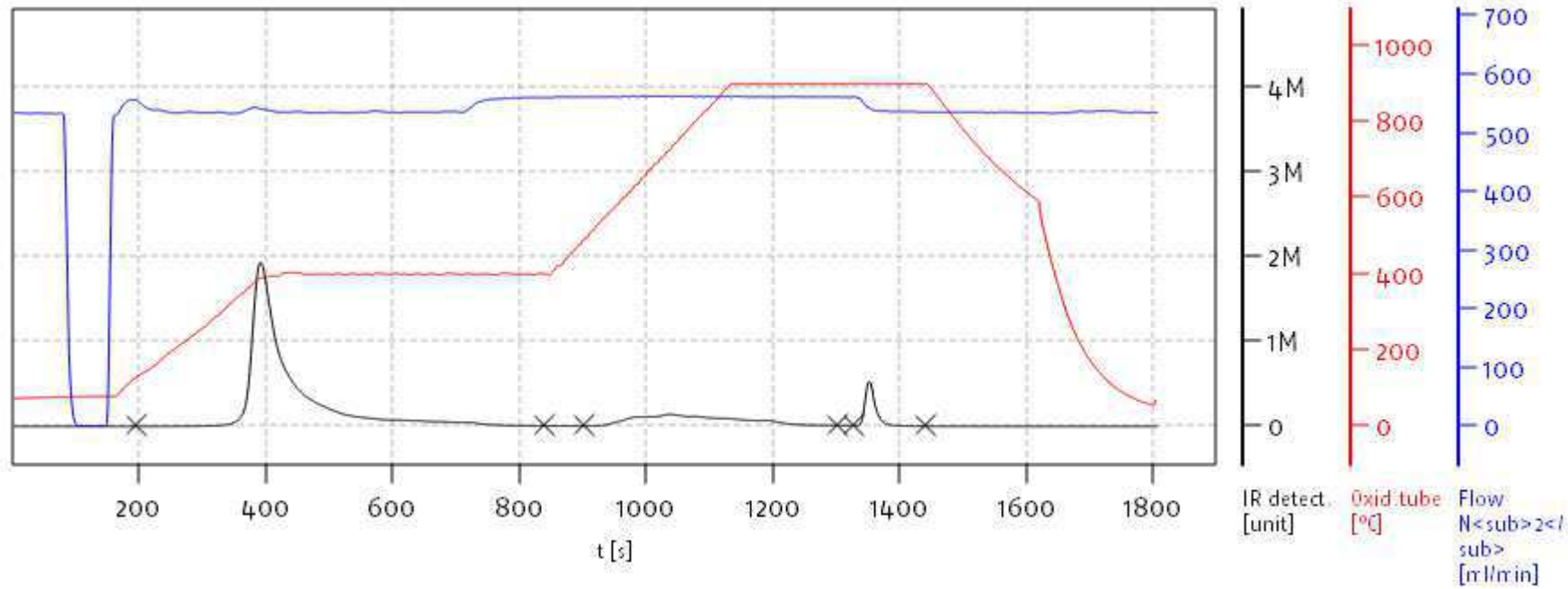
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
39	39	23C0108-06	640.90		CARBON	4/7/2023 5:41 AM	bl	1.189	4 712 073	1.434	0.085	379 002	1 038 986	1.104	0.245	0.9754	1.0000



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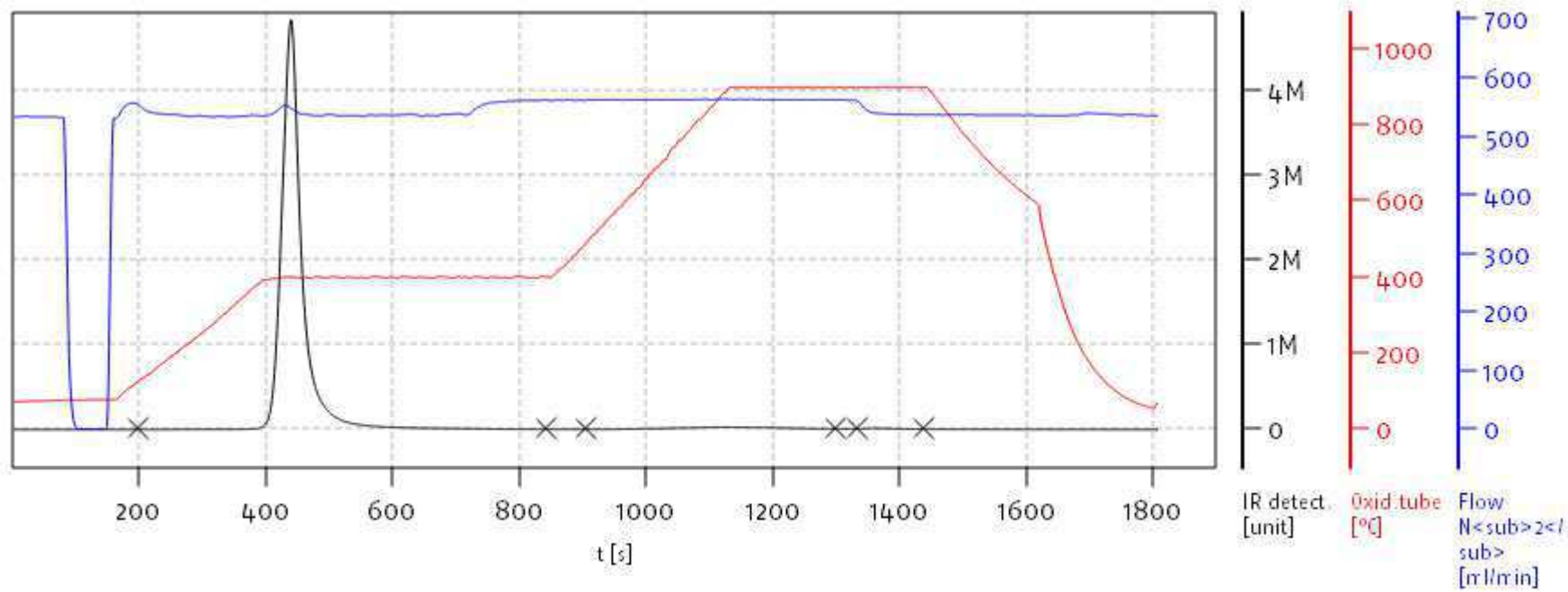
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
40	40	SLD0078-CCV3	23.00		CARBON	4/7/2023 6:11 AM	bl	43.740	6 679 705	45.110	0.063	35 865	230 196	43.677	1.371	0.9754	1.0000



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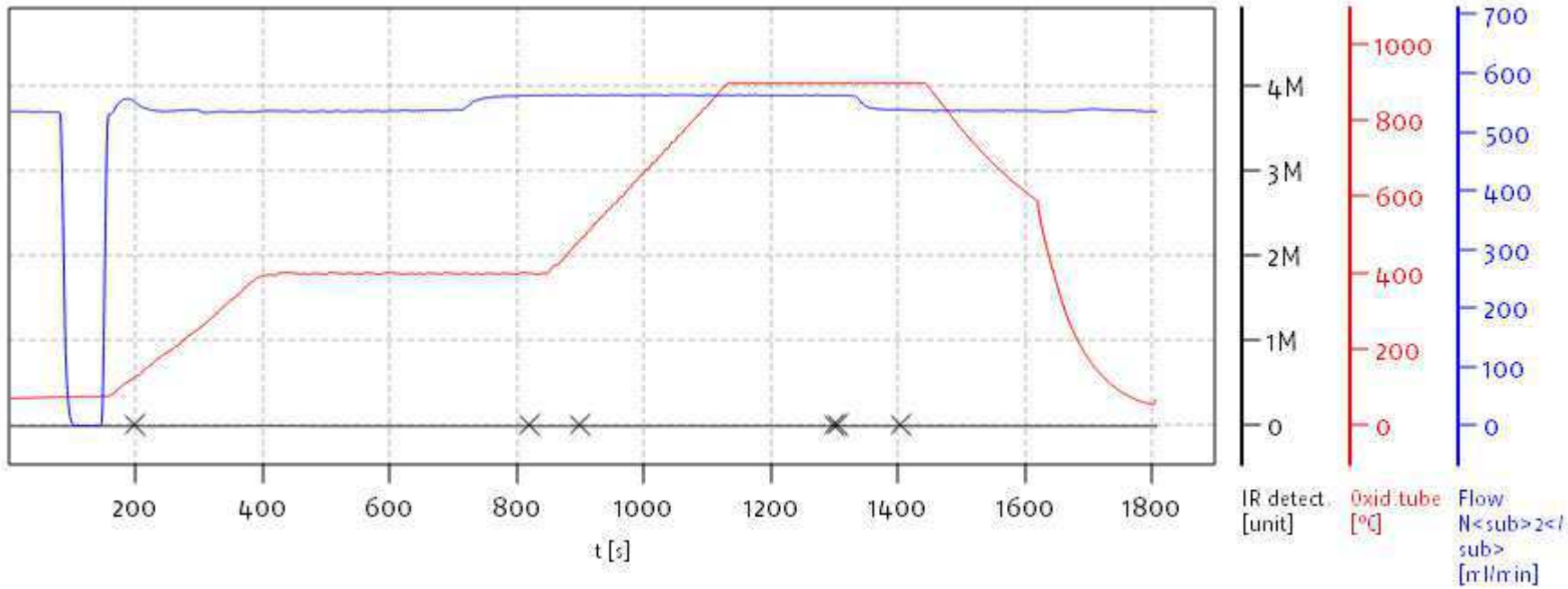
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
41	41	SLD0078-CCB3	503.20		CARBON	4/7/2023 6:42 AM	bl,C2u	0.000	12 513	0.000	0.000	2 147	8 843	0.000	0.000	0.9754	1.0000



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soliTOC V2.0.2 (31015f9) 2018-11-19
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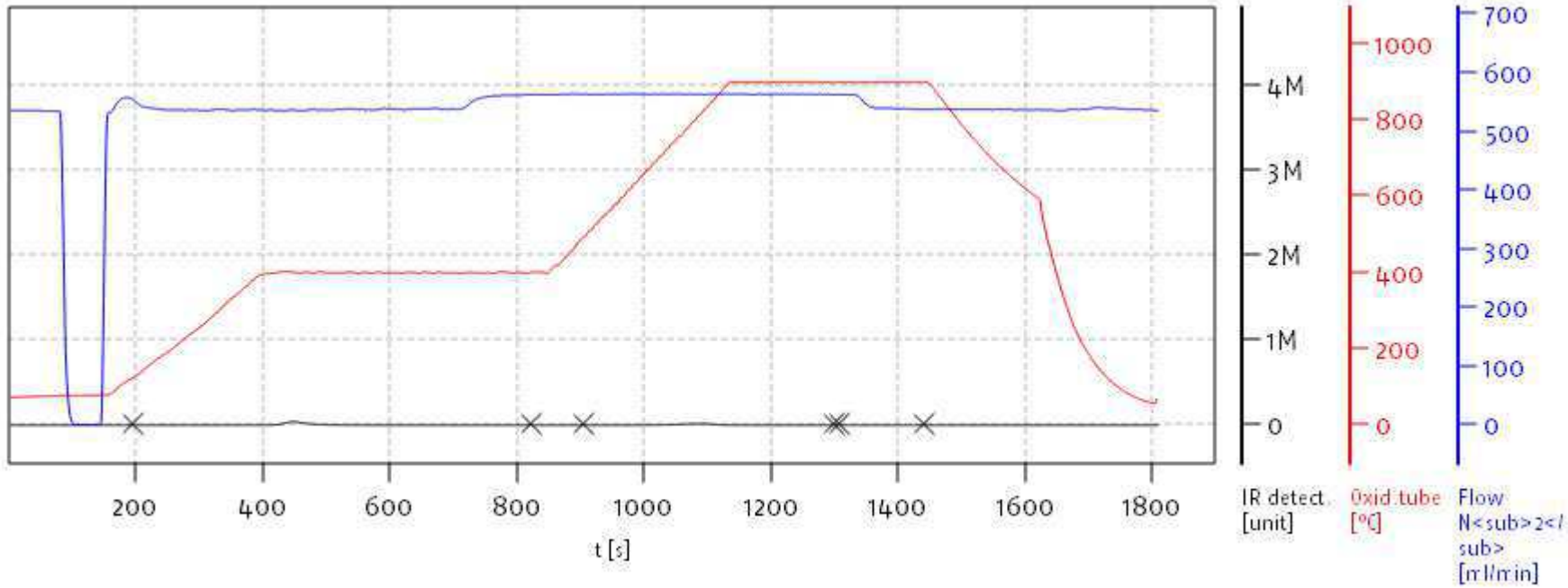
elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
42	42	BLD0118-MRL1	515.50		CARBON	4/7/2023 7:12 AM	bl,C2u	0.013	71 628	0.018	0.000	1 023	41 777	0.013	0.005	0.9754	1.0000



Name:

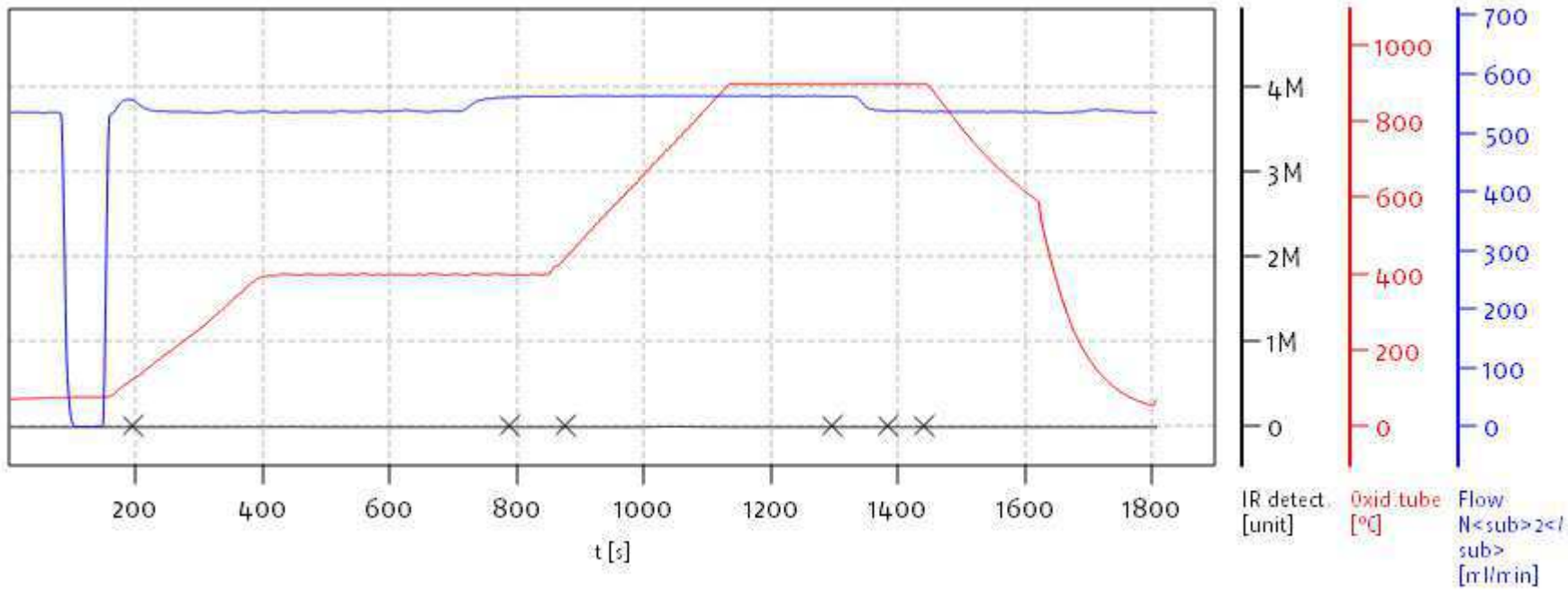
Access: soliTOC superuser

Date: Fri Apr 7 14:09:03 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
43	43	BLD0118-BLK1	531.20		CARBON	4/7/2023 7:43 AM	bl,C2u	0.000	12 189	0.000	0.000	320	20 934	0.000	0.000	0.9754	1.0000



Name:

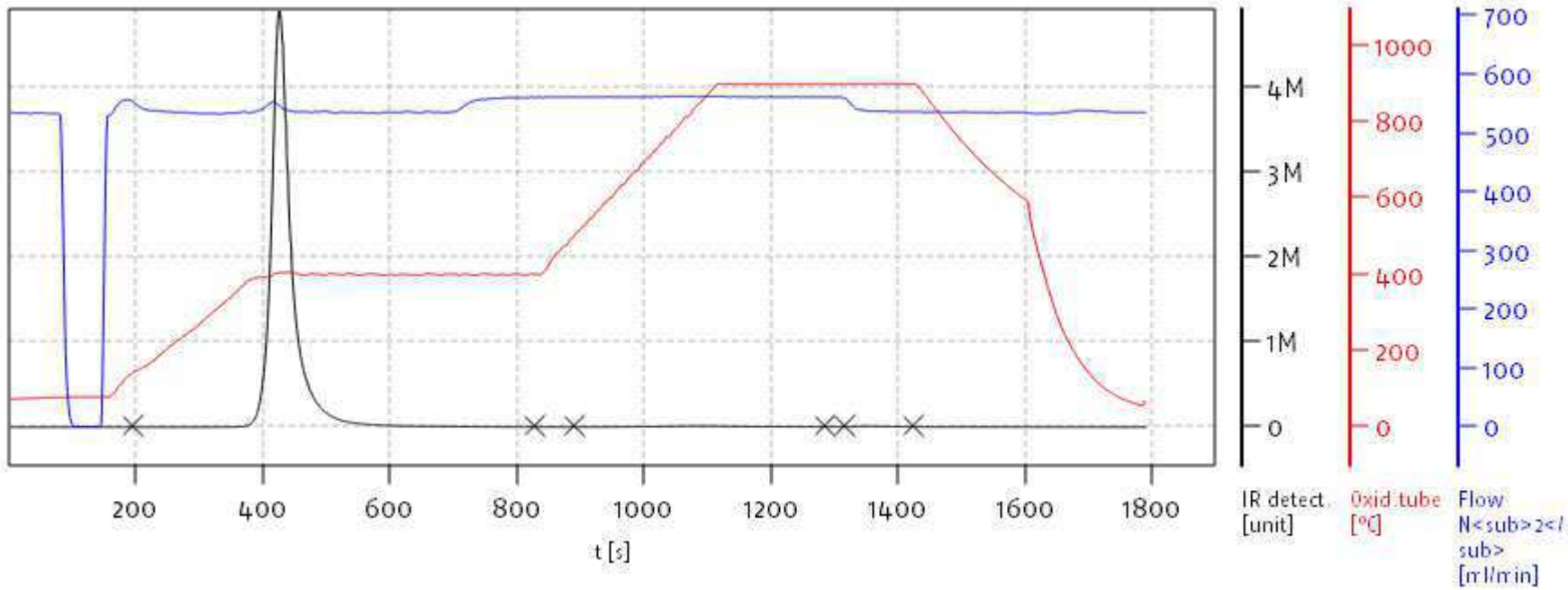
Access: soliTOC superuser

Date: Fri Apr 7 14:09:03 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
44	44	BLD0118-BS1	22.80		CARBON	4/7/2023 8:13 AM	bl	44.960	6 814 452	45.433	0.008	27 651	96 141	44.952	0.473	0.9754	1.0000



Name:

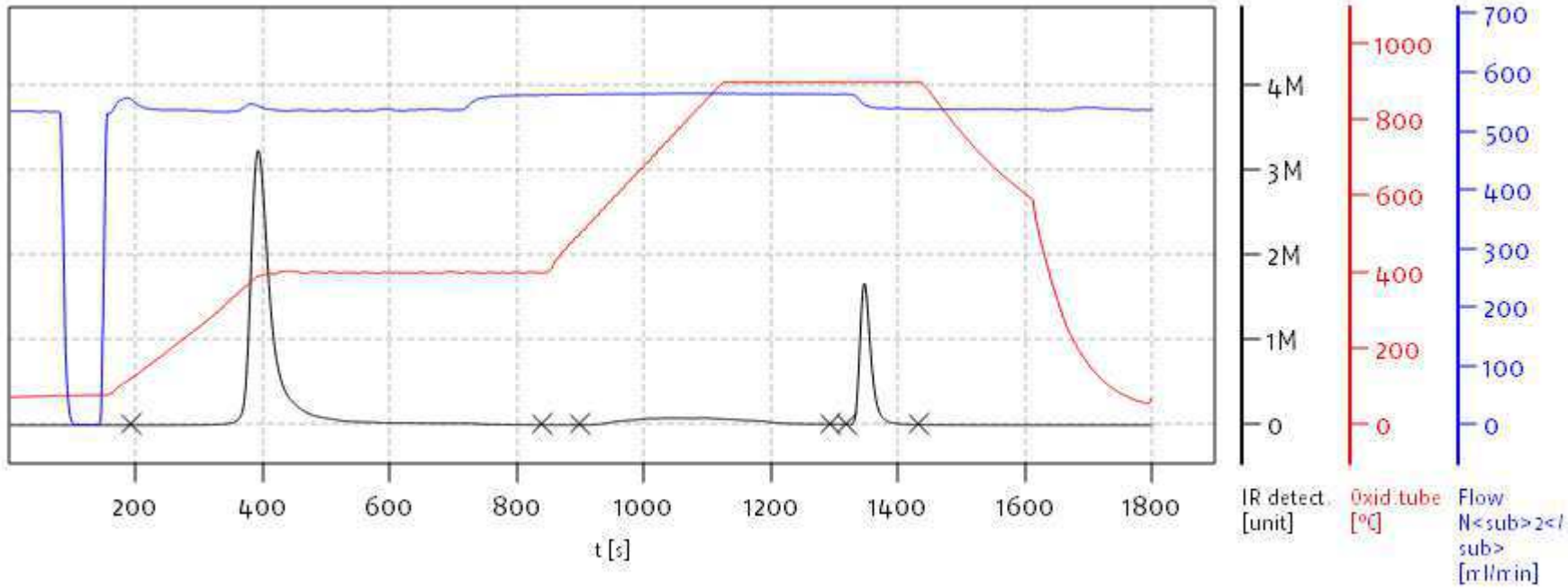
Access: soliTOC superuser

Date: Fri Apr 7 14:09:03 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
45	45	BLD0118-SRM1	303.30		CARBON	4/7/2023 8:43 AM	bl	3.028	4 807 980	3.381	0.647	1 294 551	718 658	2.380	0.353	0.9754	1.0000



Name:

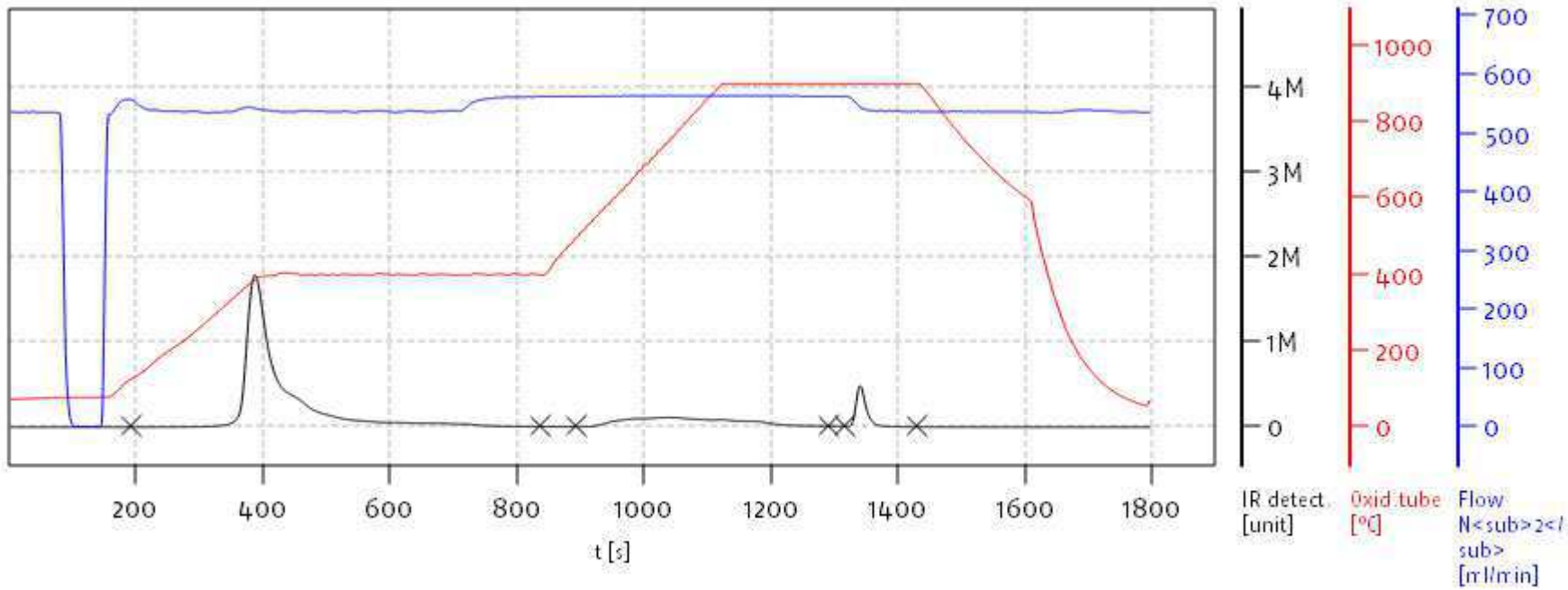
Access: soliTOC superuser

Date: Fri Apr 7 14:09:03 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
46	46	23C0108-07	526.30		CARBON	4/7/2023 9:14 AM	bl	1.224	3 961 887	1.492	0.095	348 023	939 139	1.129	0.268	0.9754	1.0000



Name:

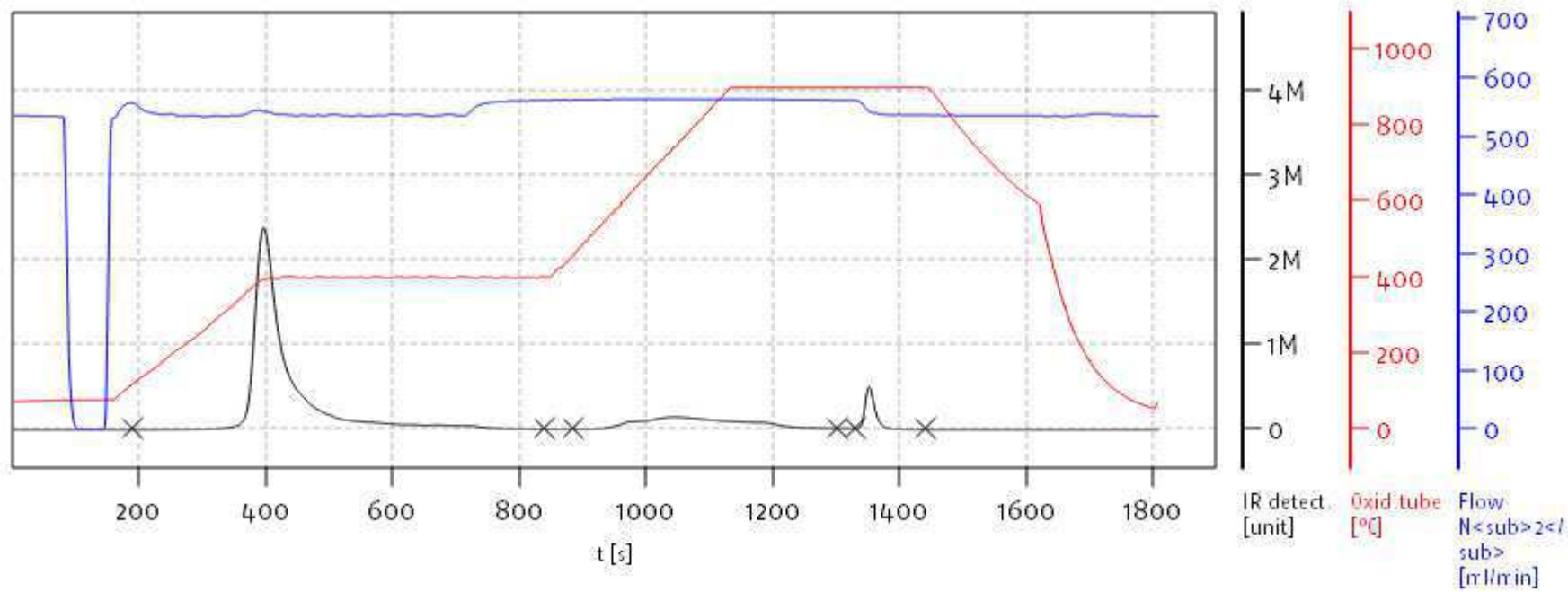
Access: soliTOC superuser

Date: Fri Apr 7 14:09:03 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
47	47	BLD0118-DUP1	652.70		CARBON	4/7/2023 9:44 AM	bl	1.240	5 056 657	1.500	0.077	350 506	1 122 537	1.164	0.260	0.9754	1.0000



Name:

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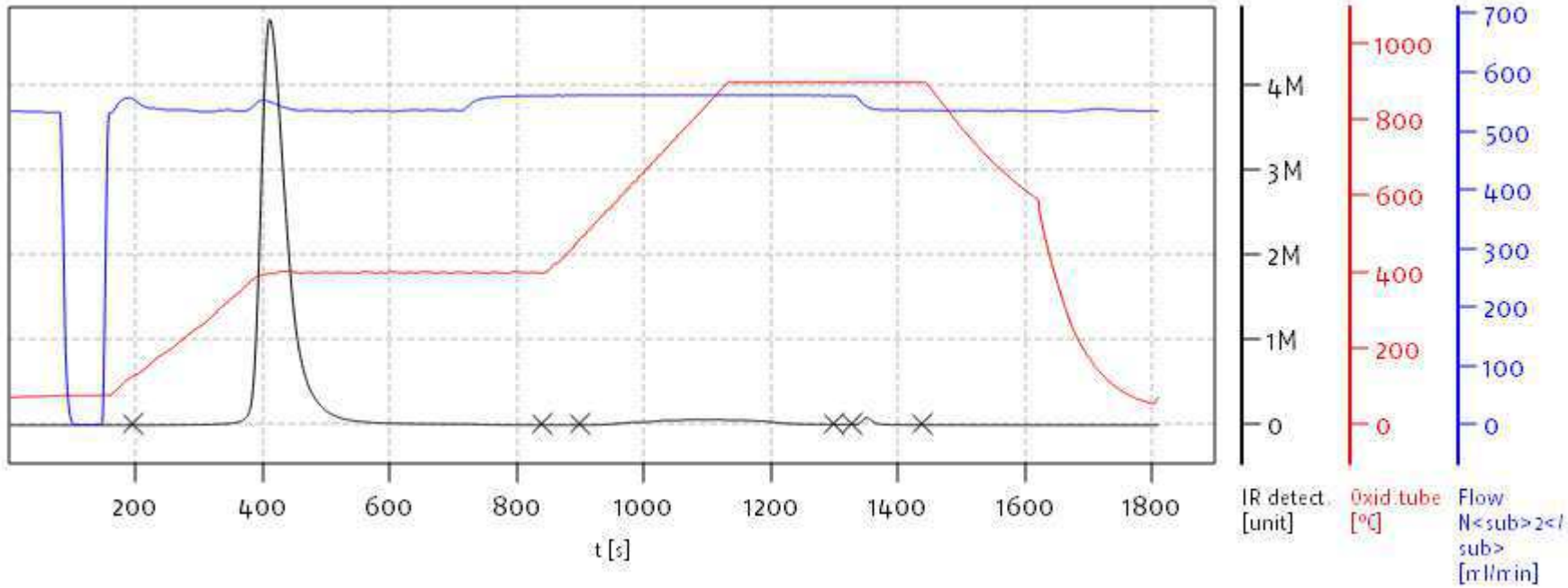
Date: Fri Apr 7 14:09:03 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
48	48	BLD0118-MS1	612.90	0.0098	CARBON	4/7/2023 10:15 AM	bl	2.163	8 756 861	2.292	0.012	73 273	538 425	2.151	0.129	0.9754	1.0000



Name:

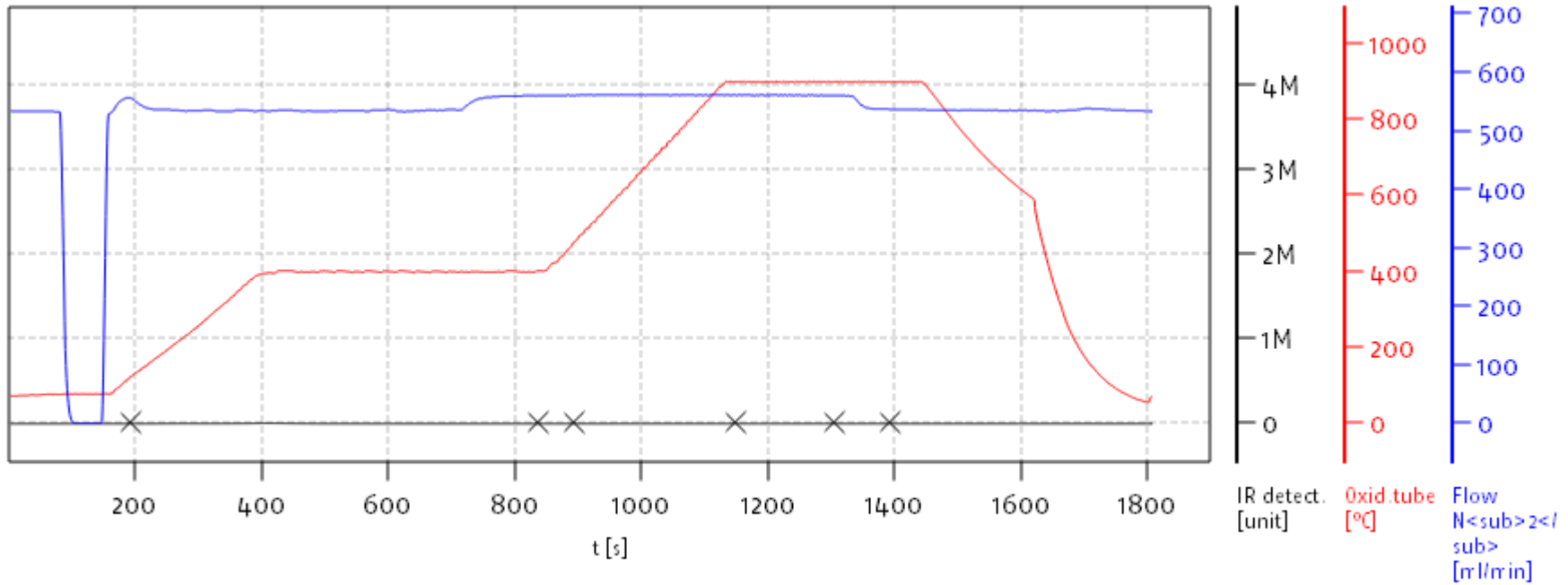
Access: soliTOC superuser

Date: Fri Apr 7 14:09:03 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
49	49	BLANK	1.00		CARBON	4/7/2023 10:45 AM	bl	0.000	24 968	0.000	0.000	491	2 843	0.000	0.000	0.9754	1.0000



Name:

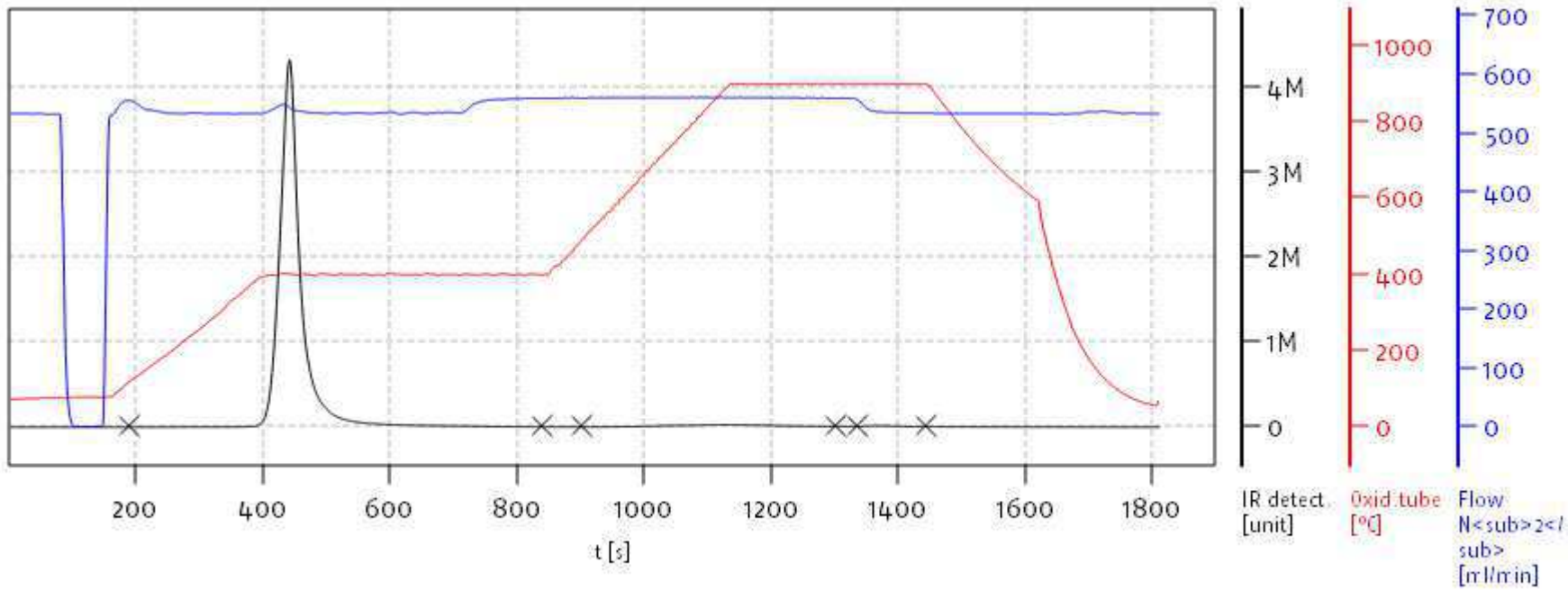
Access: soliTOC superuser

Date: Fri Apr 7 14:09:03 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
50	50	Dfactor	21.30		CARBON	4/7/2023 11:16 AM	bl	44.545	6 154 865	45.938	0.099	40 166	218 261	44.446	1.393	0.9979	1.0000



Name:

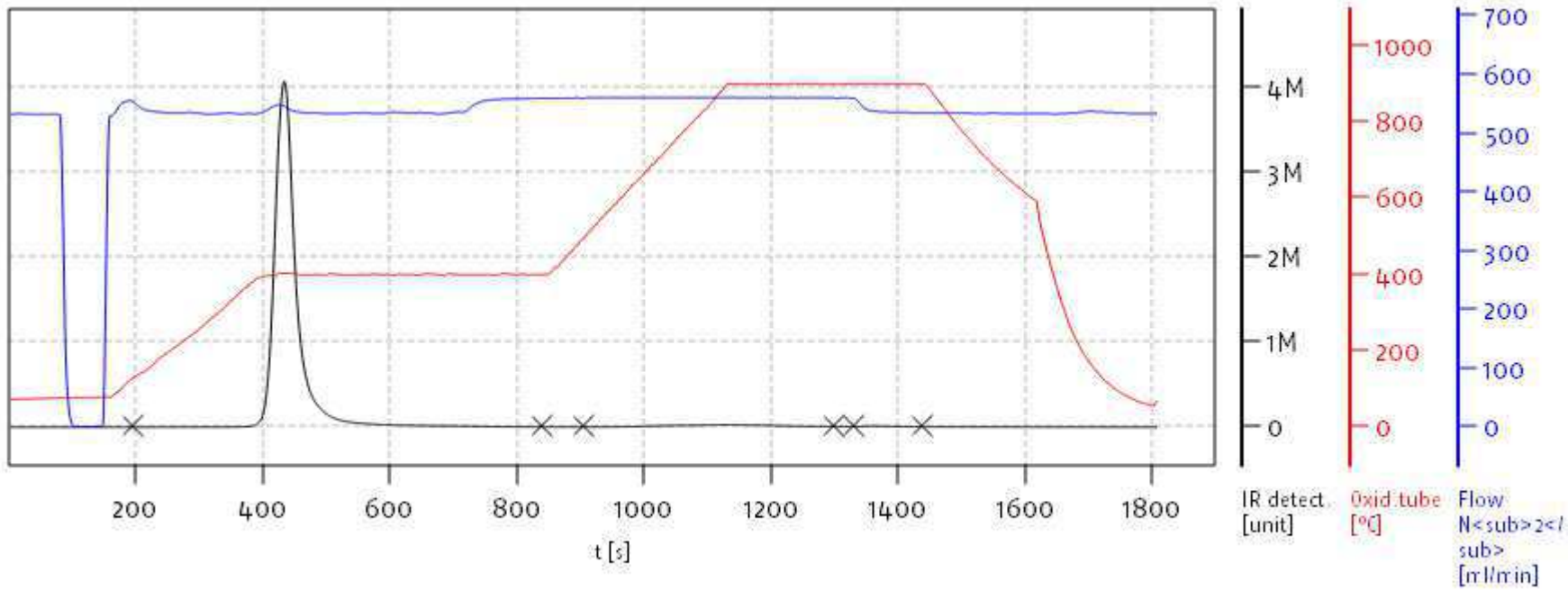
Access: soliTOC superuser

Date: Fri Apr 7 14:09:03 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
51	51	Dfactor	20.80		CARBON	4/7/2023 11:46 AM	bl	44.488	6 004 928	45.869	0.043	32 263	212 072	44.446	1.381	0.9989	1.0000



Name:

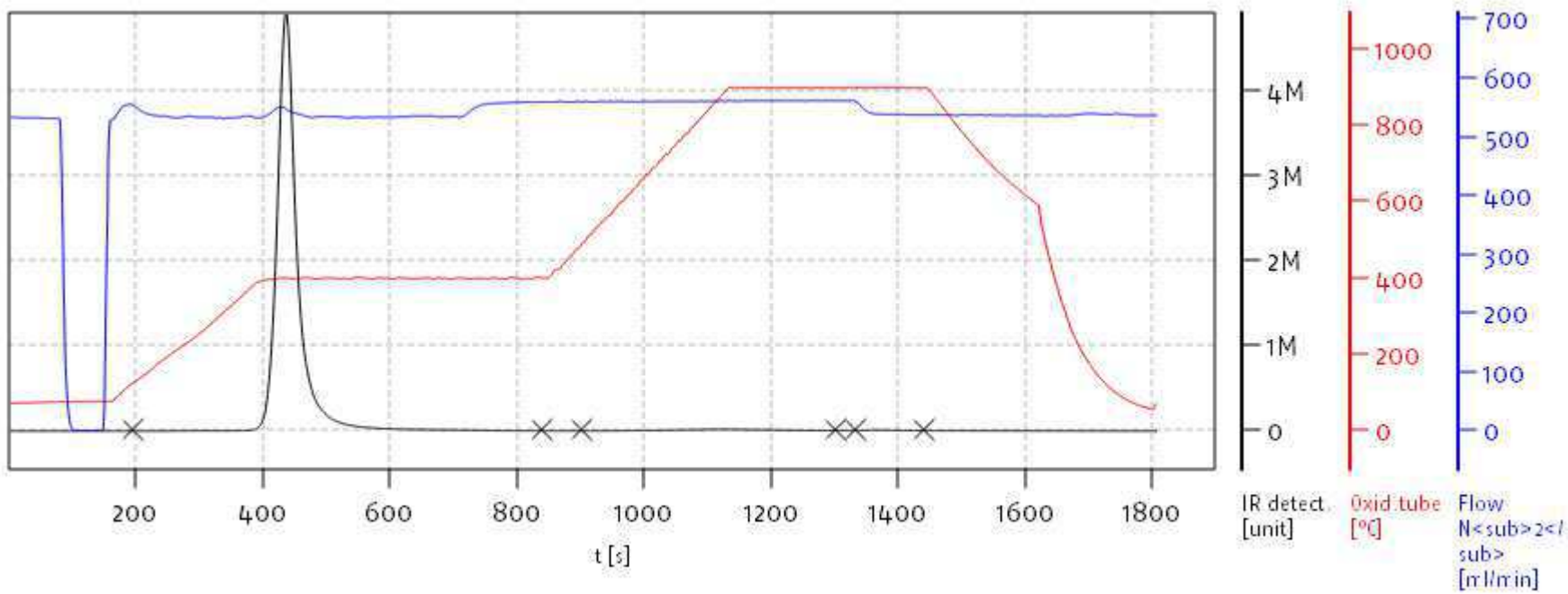
Access: soliTOC superuser

Date: Fri Apr 7 14:09:03 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
52	52	SLD0078-CCV4	23.30		CARBON	4/7/2023 12:17 PM	bl	45.274	6 847 908	46.060	0.026	30 391	144 798	45.248	0.786	0.9984	1.0000



Name:

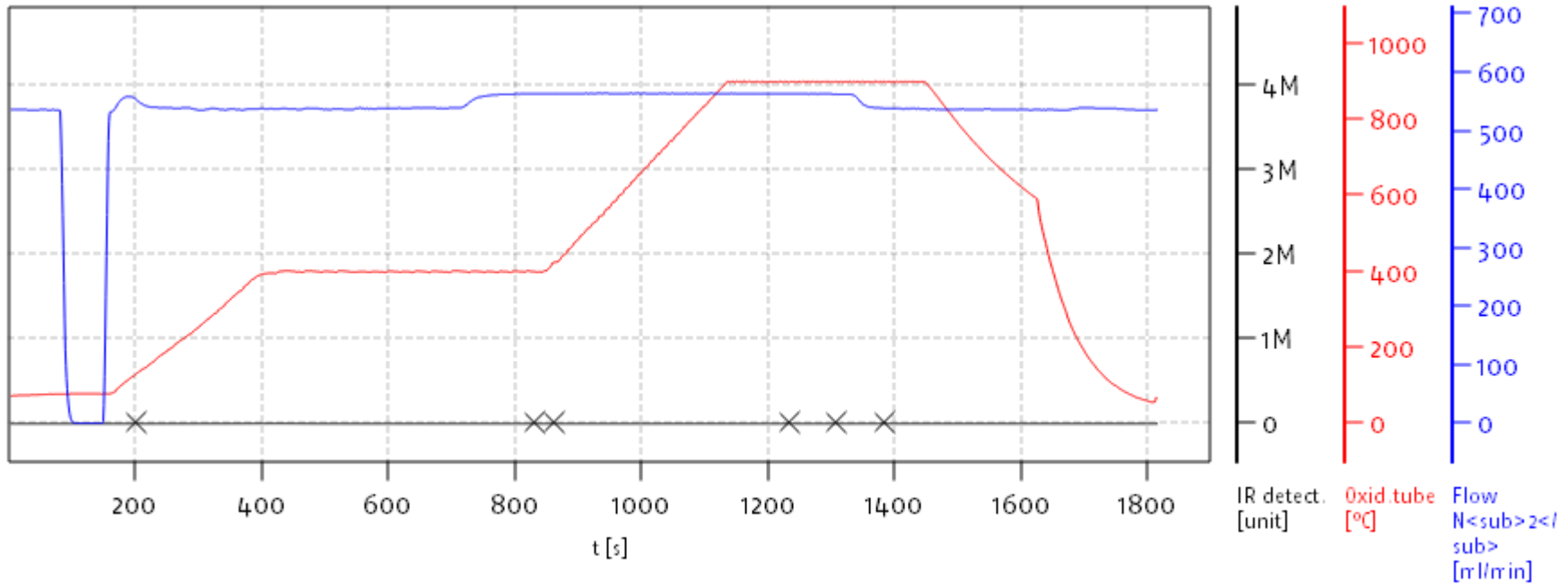
Access: soliTOC superuser

Date: Fri Apr 7 14:09:03 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: CDE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
53	53	SLD0078-CCB4	526.30		CARBON	4/7/2023 12:47 PM	bl,C3u,C2u	0.000	11 548	0.000	0.000	707	821	0.000	0.000	0.9984	1.0000



Name:

Access: soliTOC superuser

Date: Fri Apr 7 14:09:03 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Document: 040723 CDE from: 4/7/2023 2:07 PM

INITIAL CALIBRATION DATA

EPA 9060A m

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	FD00070	Instrument:	TOC Cube
Calibration Date:	04/26/2022 11:29		

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF
Total Organic Carbon	0.0080973	1449743	0.014695	1300238	0.021293	1292913	0.02939	1293535	0.044385	2094063	0.05878	1400085
Total Carbon	0.0080973	1449743	0.014695	1300238	0.021293	1292913	0.02939	1293535	0.044385	2094063	0.05878	1400085
Total Inorganic Carbon	0.0080973	1449743	0.014695	1300238	0.021293	1292913	0.02939	1293535	0.044385	2094063	0.05878	1400085
% Soot	0.0080973	1449743	0.014695	1300238	0.021293	1292913	0.02939	1293535	0.044385	2094063	0.05878	1400085

INITIAL CALIBRATION DATA

EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: FD00070
Instrument: TOC Cube
Calibration Date: 04/26/2022 11:29

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF
Total Organic Carbon	0.074075	1370638	0.08937	1351930	0.12056	2158544	0.14995	1559046	0.24	1346463	0.288	1430135
Total Carbon	0.074075	1370638	0.08937	1351930	0.12056	2158544	0.14995	1559046	0.24	1346463	0.288	1430135
Total Inorganic Carbon	0.074075	1370638	0.08937	1351930	0.12056	2158544	0.14995	1559046	0.24	1346463	0.288	1430135
% Soot	0.074075	1370638	0.08937	1351930	0.12056	2158544	0.14995	1559046	0.24	1346463	0.288	1430135

INITIAL CALIBRATION DATA

EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: FD00070
Instrument: TOC Cube
Calibration Date: 04/26/2022 11:29

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF
Total Organic Carbon	0.414	1337053	0.606	1385937	0.894	1382774	1.188	1379790	1.5	1375927	1.818	1372882
Total Carbon	0.414	1337053	0.606	1385937	0.894	1382774	1.188	1379790	1.5	1375927	1.818	1372882
Total Inorganic Carbon	0.414	1337053	0.606	1385937	0.894	1382774	1.188	1379790	1.5	1375927	1.818	1372882
% Soot	0.414	1337053	0.606	1385937	0.894	1382774	1.188	1379790	1.5	1375927	1.818	1372882

INITIAL CALIBRATION DATA

EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Calibration: FD00070
Instrument: TOC Cube
Calibration Date: 04/26/2022 11:29

Compound	Level 19		Level 20		Level 21		Level 22		Level 23		Level 24	
	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF
Total Organic Carbon	2.49	1398606	2.982	1376871	4.188	1256057	4.818	1279542	5.406	1283358	7.2	1301408
Total Carbon	2.49	1398606	2.982	1376871	4.188	1256057	4.818	1279542	5.406	1283358	7.2	1301408
Total Inorganic Carbon	2.49	1398606	2.982	1376871	4.188	1256057	4.818	1279542	5.406	1283358	7.2	1301408
% Soot	2.49	1398606	2.982	1376871	4.188	1256057	4.818	1279542	5.406	1283358	7.2	1301408

INITIAL CALIBRATION DATA

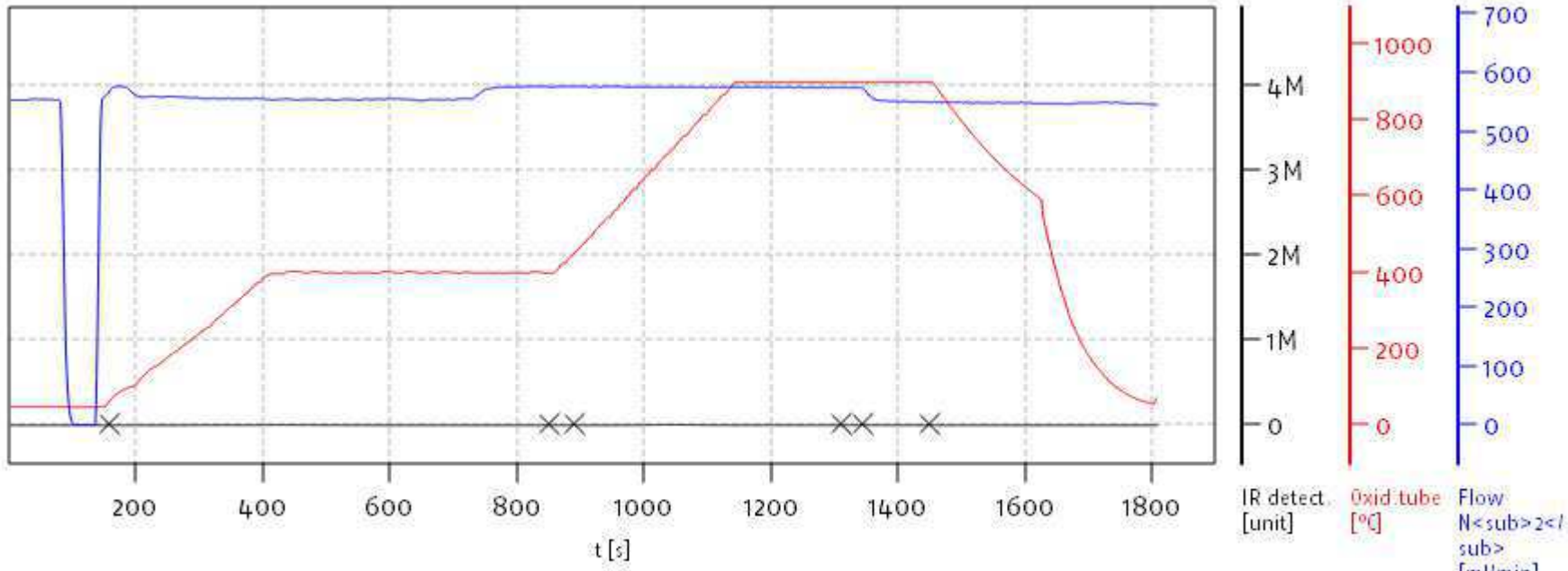
EPA 9060A m

Laboratory:	Analytical Resources, LLC	SDG:	23C0071
Client:	Anchor QEA, LLC	Project:	AOC5 MR Phase 1
Calibration:	FD00070	Instrument:	TOC Cube
Calibration Date:	04/26/2022 11:29		

COMPOUND	Mean RF	RF RSD	Linear COD	Quad COD	COD Limit	Q
Total Organic Carbon	1424064	15.9	0.9988			
Total Carbon	1424064	15.9	0.9988			
Total Inorganic Carbon	1424064	15.9	0.9988			
% Soot	1424064	15.9	0.9988			

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
1	1	BLANK	1.00		1.00	CARBON	4/26/2022 11:29 AM	0.000	0.000	0.000	bl	29 049	30 612	3 899	1.0000	1.0000



Name:

Access: soliTOC superuser

Date: Wed Apr 27 11:07:12 2022

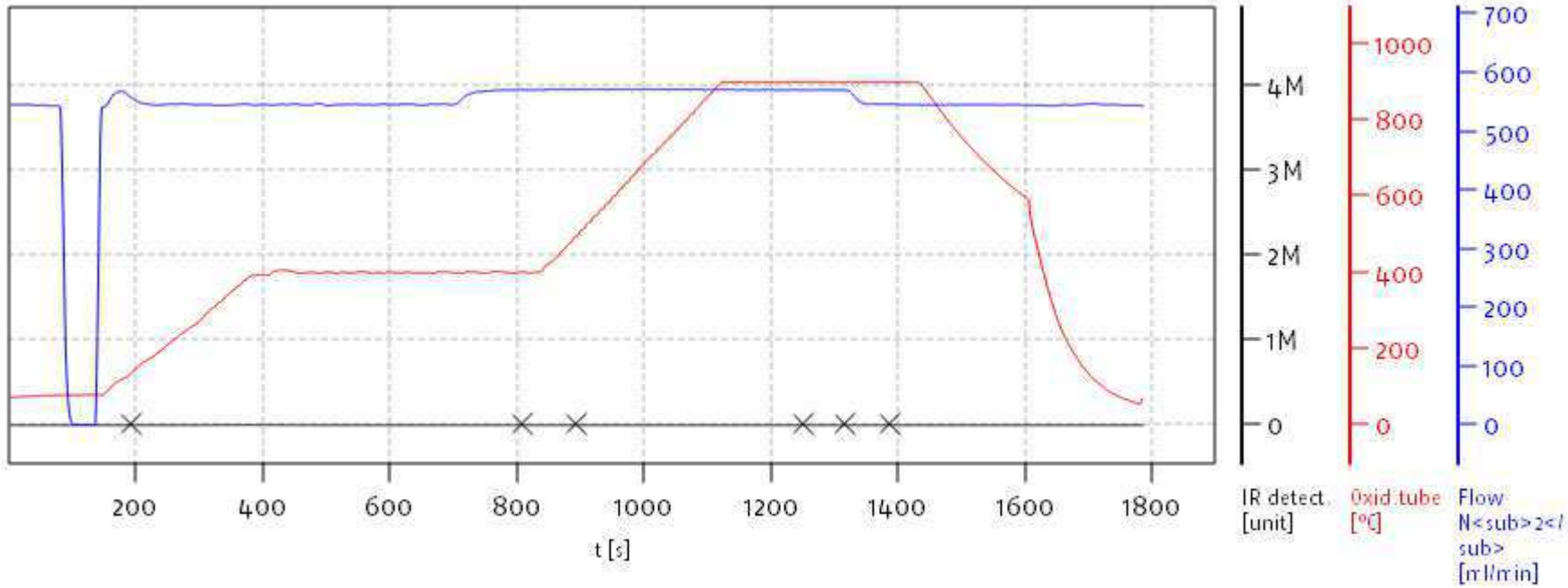
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Document: 042622 DOE CALIBRATION from: 4/27/2022 11:05 AM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
2	2	BLANK	1.00		1.00	CARBON	4/26/2022 12:00 PM	0.000	0.000	0.000	bl	11 115	60	8	1.0000	1.0000



Name:

Access: soliTOC superuser

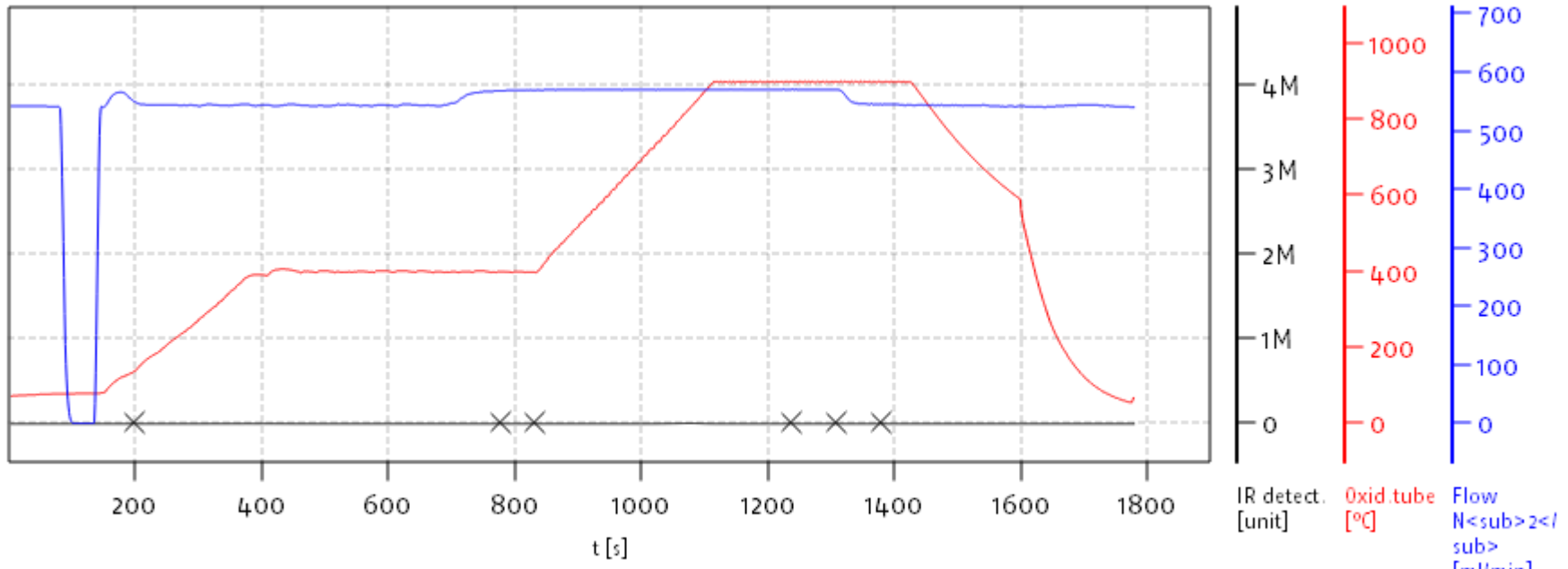
Date: Wed Apr 27 11:07:12 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
3	3	SEQ-CAL1	200.00	0.0027	1.00	CARBON	4/26/2022 12:30 PM	0.010	0.008	0.018	bl,C1u,C2u	7 294	11 739	22	1.0000	0.7425



Name:

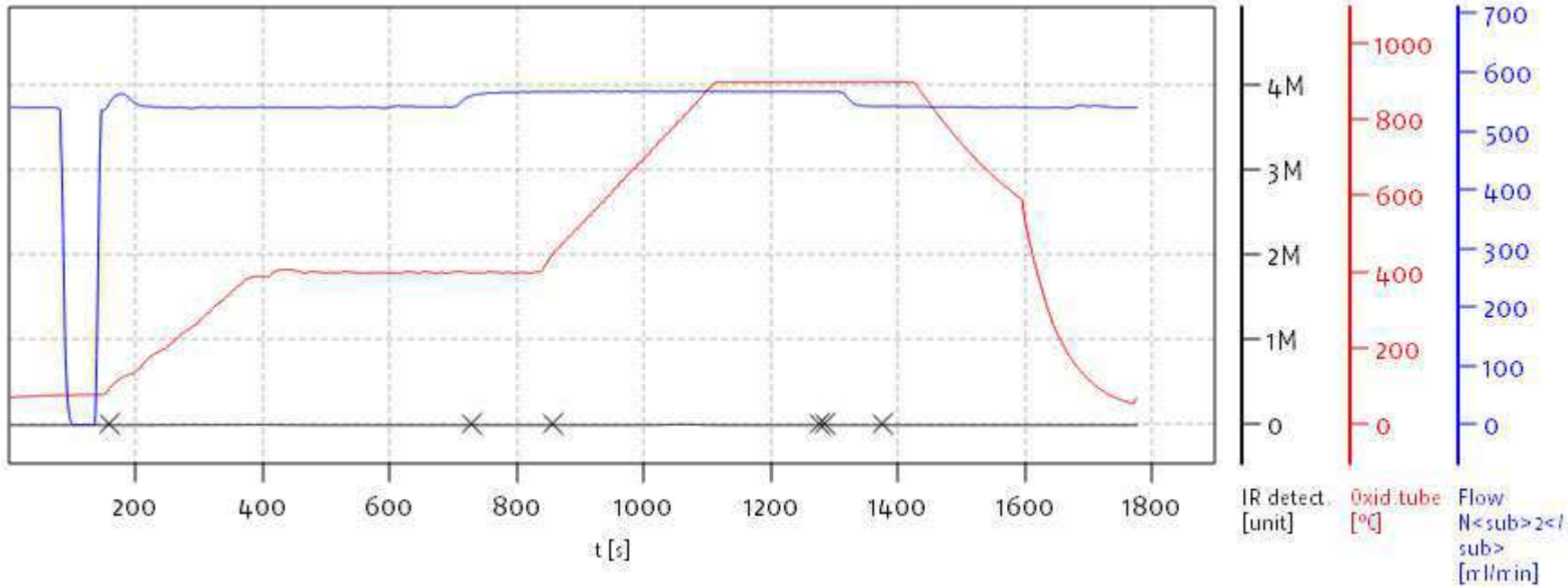
Access: soliTOC superuser

Date: Wed Apr 27 11:07:12 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
4	4	SEQ-CAL2	200.00	0.0049	1.00	CARBON	4/26/2022 1:00 PM	0.023	0.015	0.038	bl,C2u	23 296	19 107	47	1.0000	0.8936



Name:

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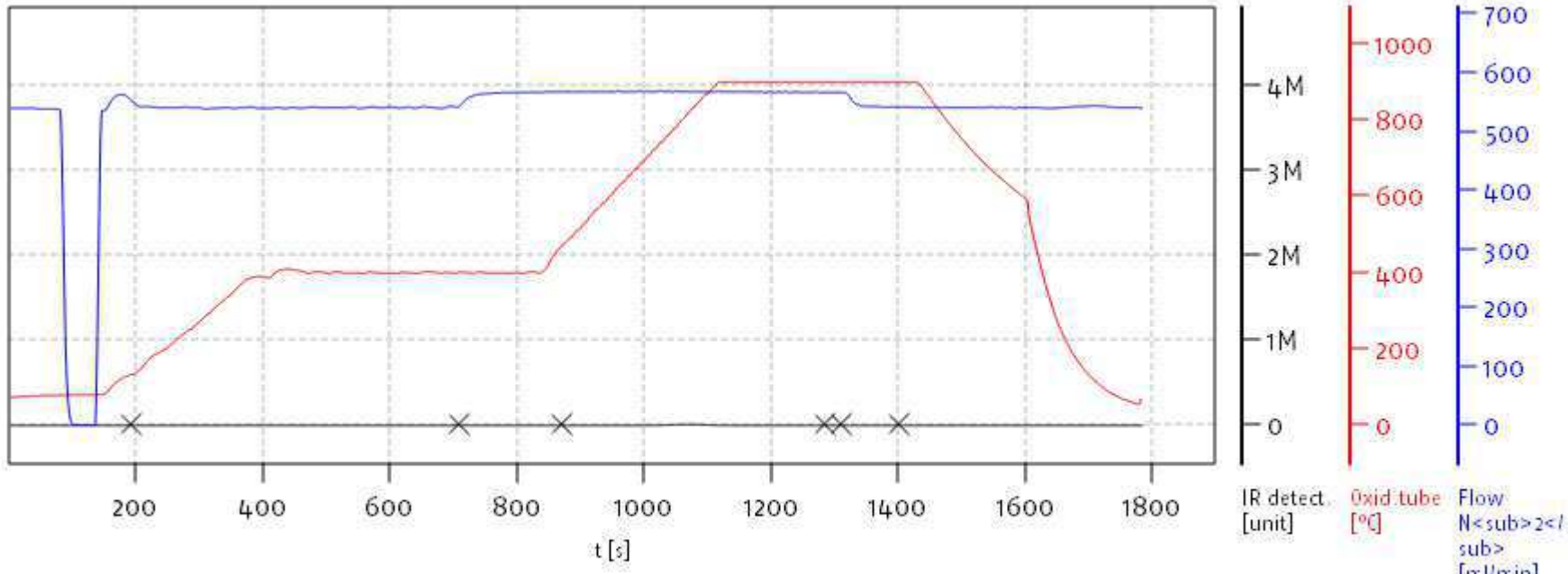
Date: Wed Apr 27 11:07:12 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
5	5	SEQ-CAL3	200.00	0.0071	1.00	CARBON	4/26/2022 1:30 PM	0.006	0.022	0.028	bl,C1u,C2u	2 319	27 530	170	1.0000	0.9343



Name:

Access: soliTOC superuser

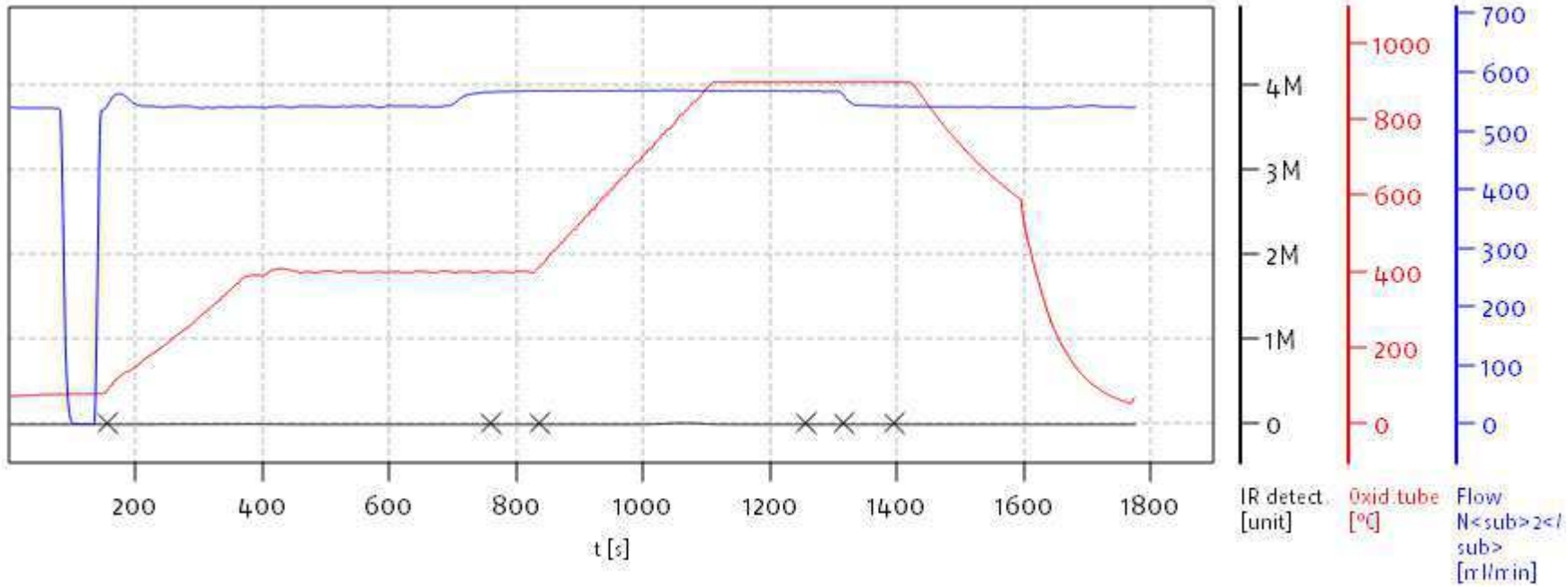
Date: Wed Apr 27 11:07:12 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
6	6	SEQ-CAL4	200.00	0.0098	1.00	CARBON	4/26/2022 2:00 PM	0.020	0.030	0.050	bl,C2u	19 746	38 017	109	1.0000	0.9461



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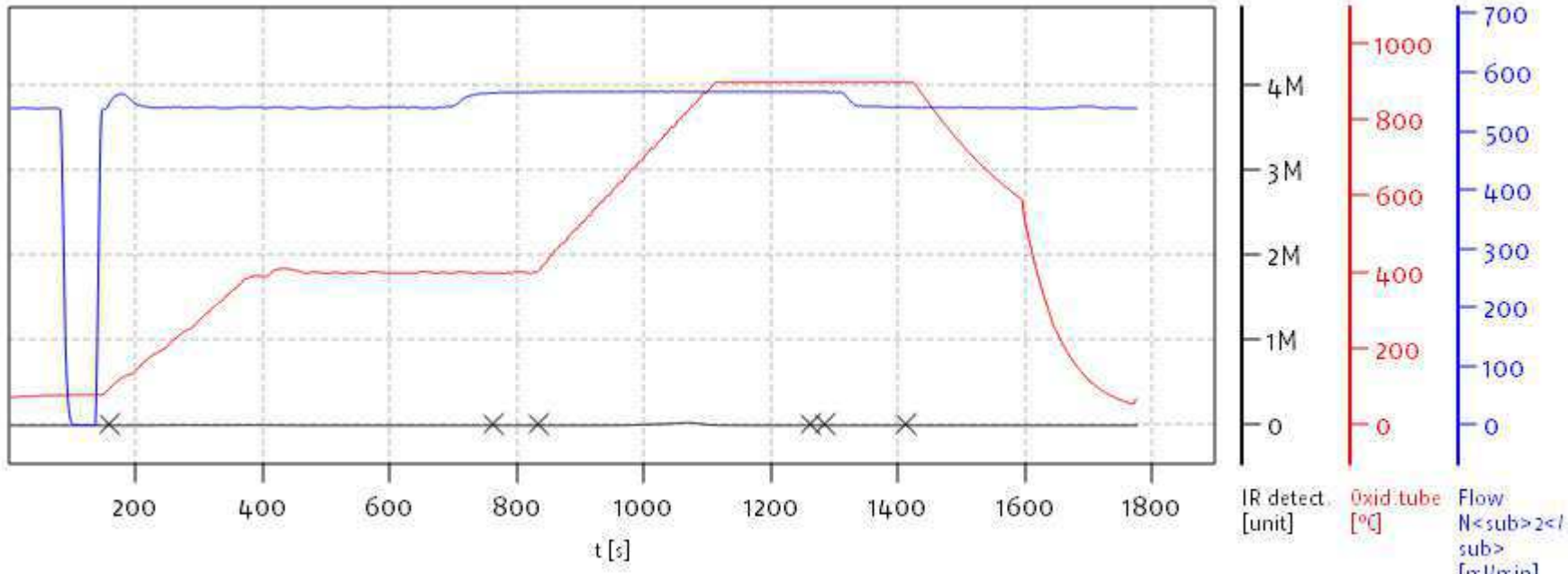
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
7	7	SEQ-CAL5	200.00	0.0148	1.00	CARBON	4/26/2022 2:30 PM	0.021	0.045	0.066	bl,C2u	20 951	92 945	236	1.0000	0.5975



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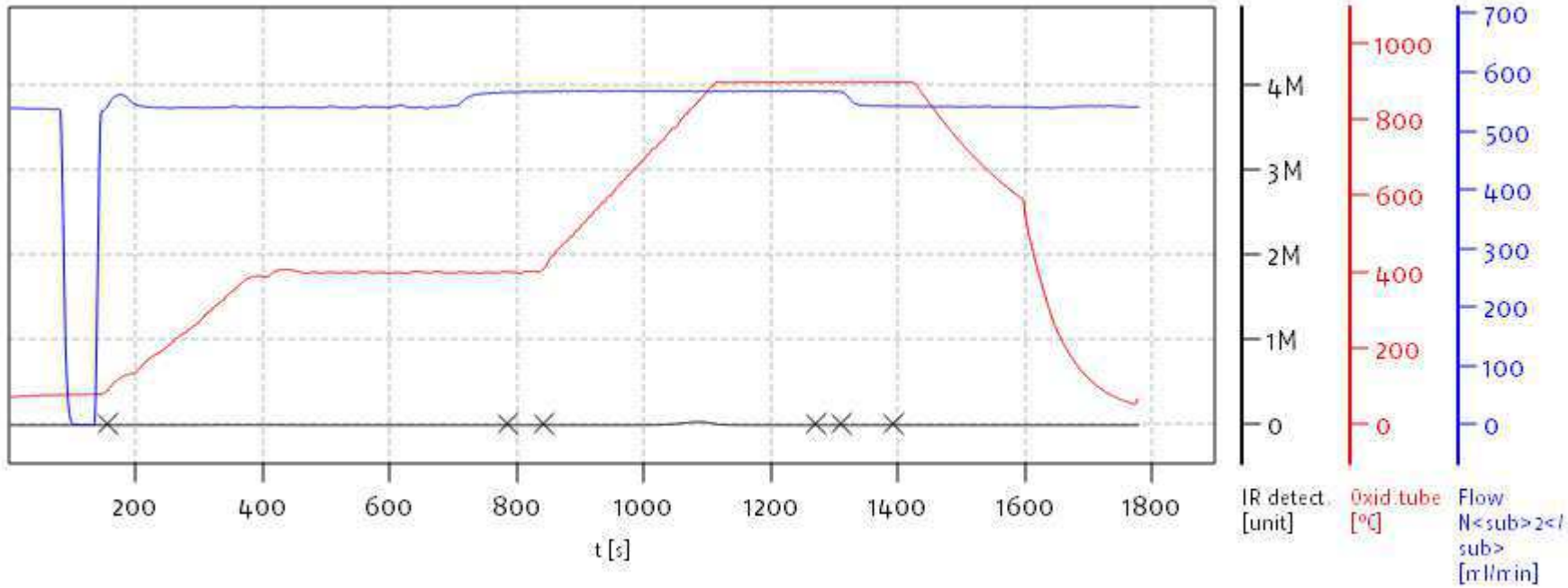
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
8	8	SEQ-CAL6	200.00	0.0196	1.00	CARBON	4/26/2022 3:00 PM	0.012	0.061	0.073	bl,C2u	10 118	82 297	59	1.0000	0.9144



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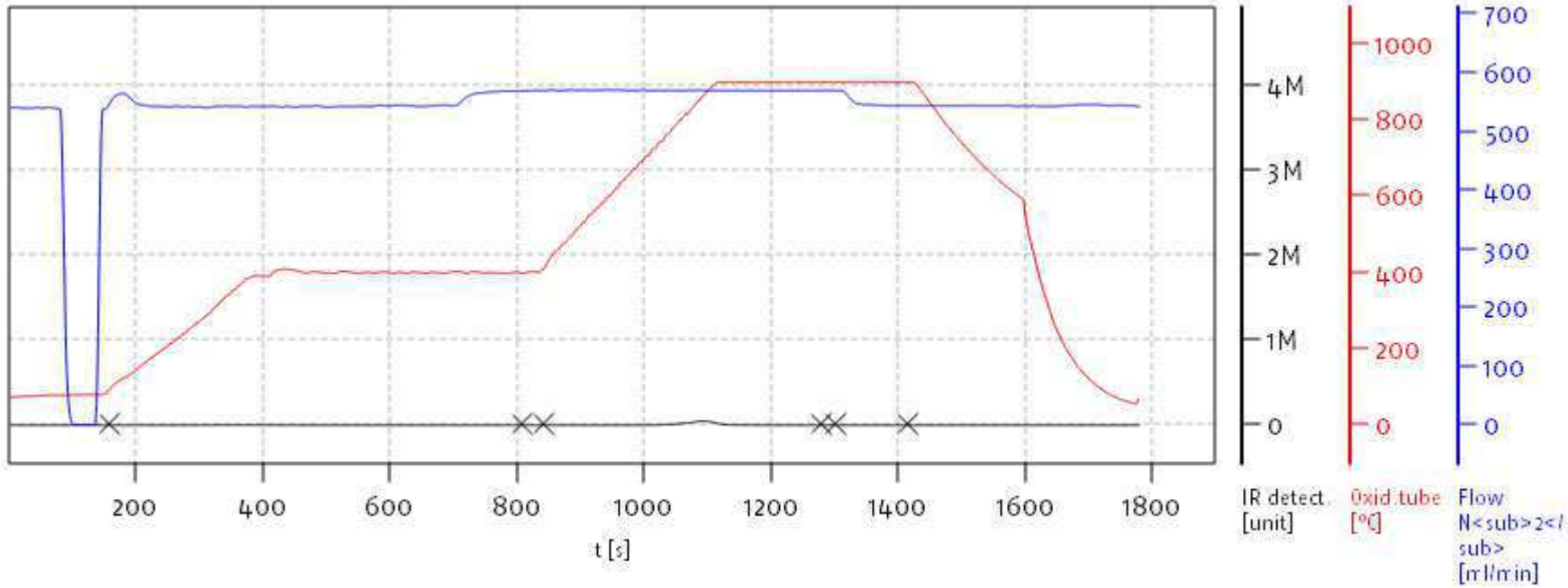
elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
9	9	SEQ-CAL7	200.00	0.0247	1.00	CARBON	4/26/2022 3:30 PM	0.013	0.075	0.088	bl,C2u	10 555	101 530	292	1.0000	0.9173



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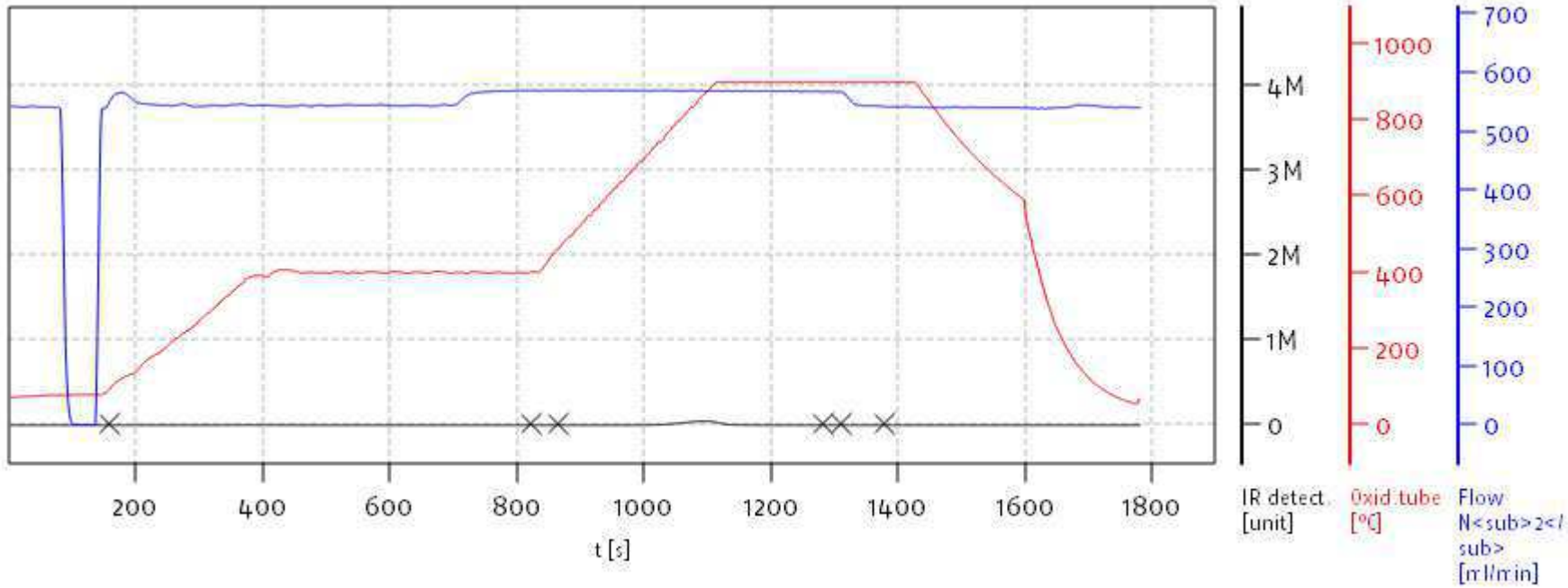
elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
10	10	SEQ-CAL8	200.00	0.0298	1.00	CARBON	4/26/2022 4:00 PM	0.009	0.091	0.100	bl,C1u,C2u	6 668	120 822	116	1.0000	0.9312



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soliTOC V2.0.2 (31015f9) 2018-11-19
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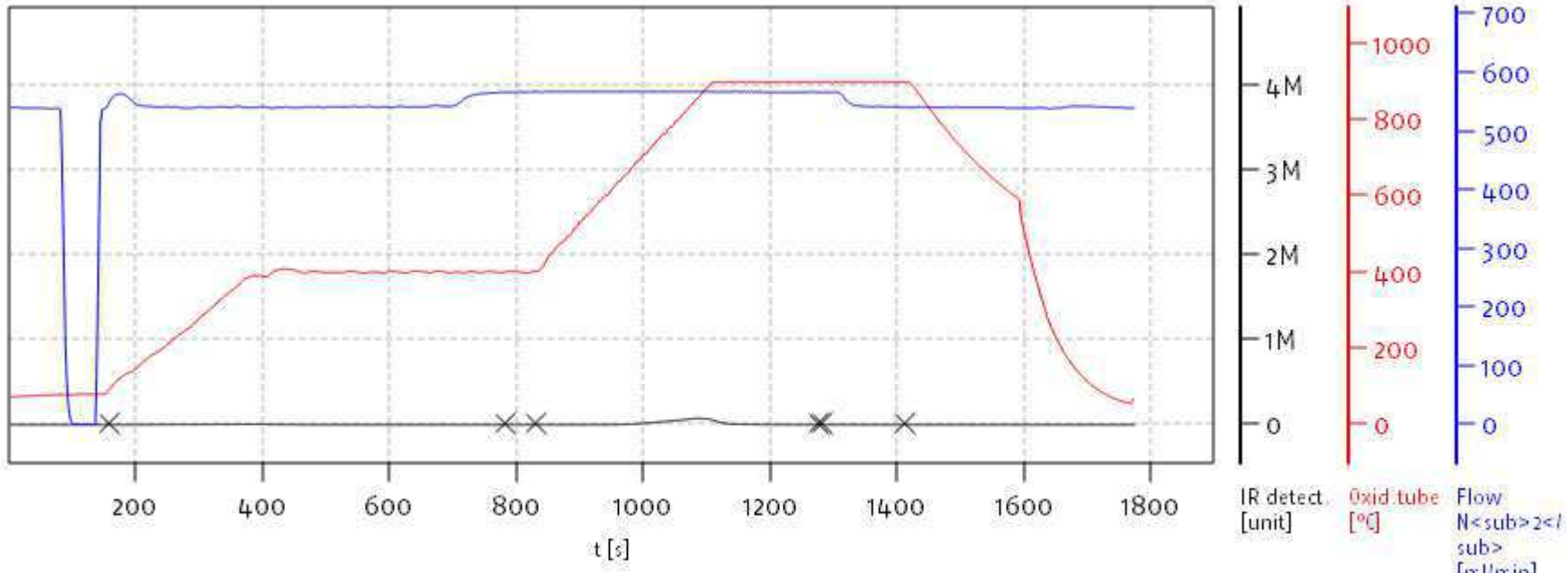
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
11	11	SEQ-CAL9	200.00	0.0402	1.00	CARBON	4/26/2022 4:30 PM	0.031	0.120	0.151	bl,C2u	32 999	260 234	1 044	1.0000	0.5792



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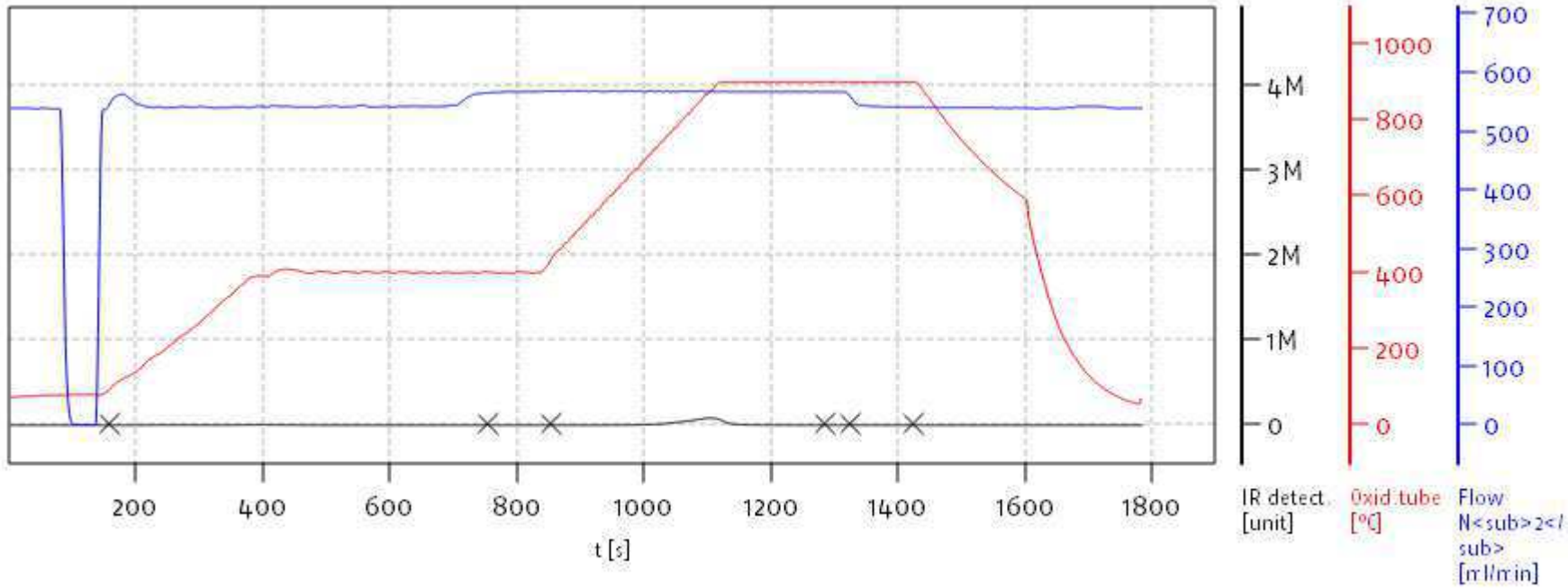
elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
12	12	SEQ-CALA	200.00	0.0500	1.00	CARBON	4/26/2022 5:00 PM	0.021	0.151	0.172	bl,C2u	20 147	233 779	913	1.0000	0.8099



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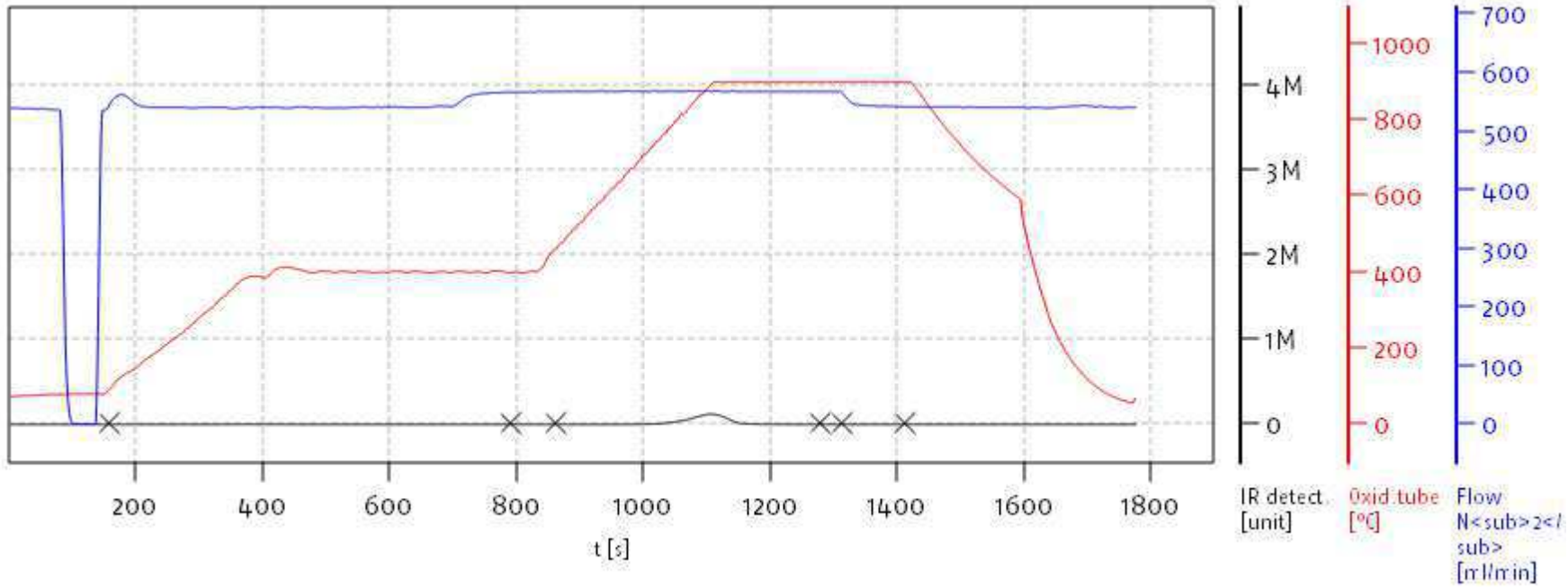
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
13	13	SEQ-CALB	200.00	0.0040	1.00	CARBON	4/26/2022 5:30 PM	0.010	0.258	0.268	bl,C1u,C2u	7 070	323 151	663	1.0000	1.0048



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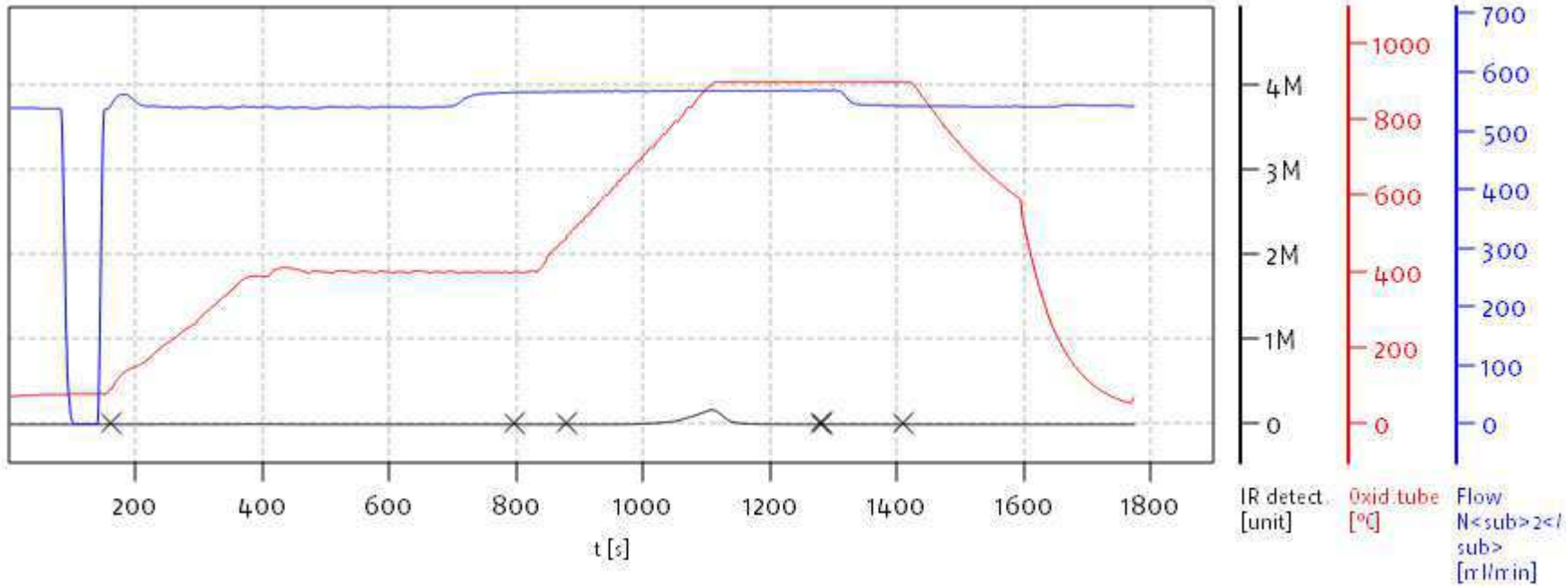
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
14	14	SEQ-CALC	200.00	0.0048	1.00	CARBON	4/26/2022 6:00 PM	0.015	0.324	0.339	bl,C2u	13 785	411 879	575	1.0000	0.9917



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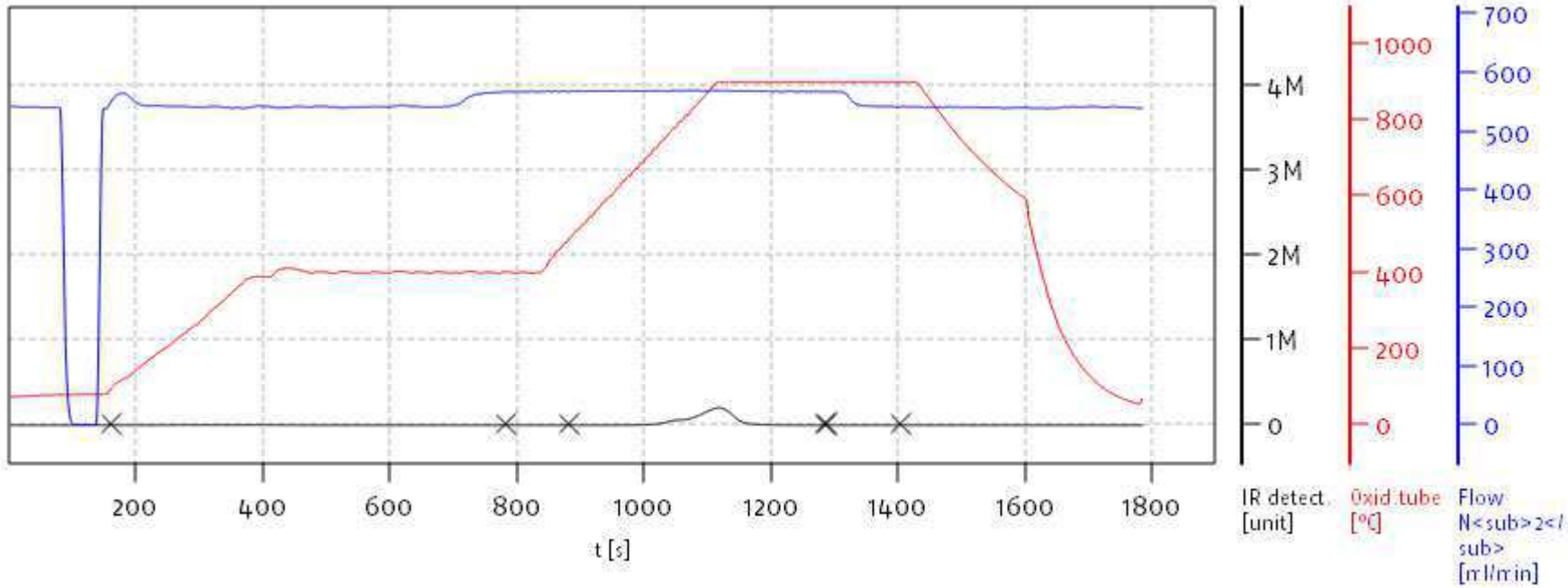
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
15	15	SEQ-CALD	200.00	0.0069	1.00	CARBON	4/26/2022 6:30 PM	0.019	0.444	0.463	bl,C2u	18 465	553 540	263	1.0000	1.0129



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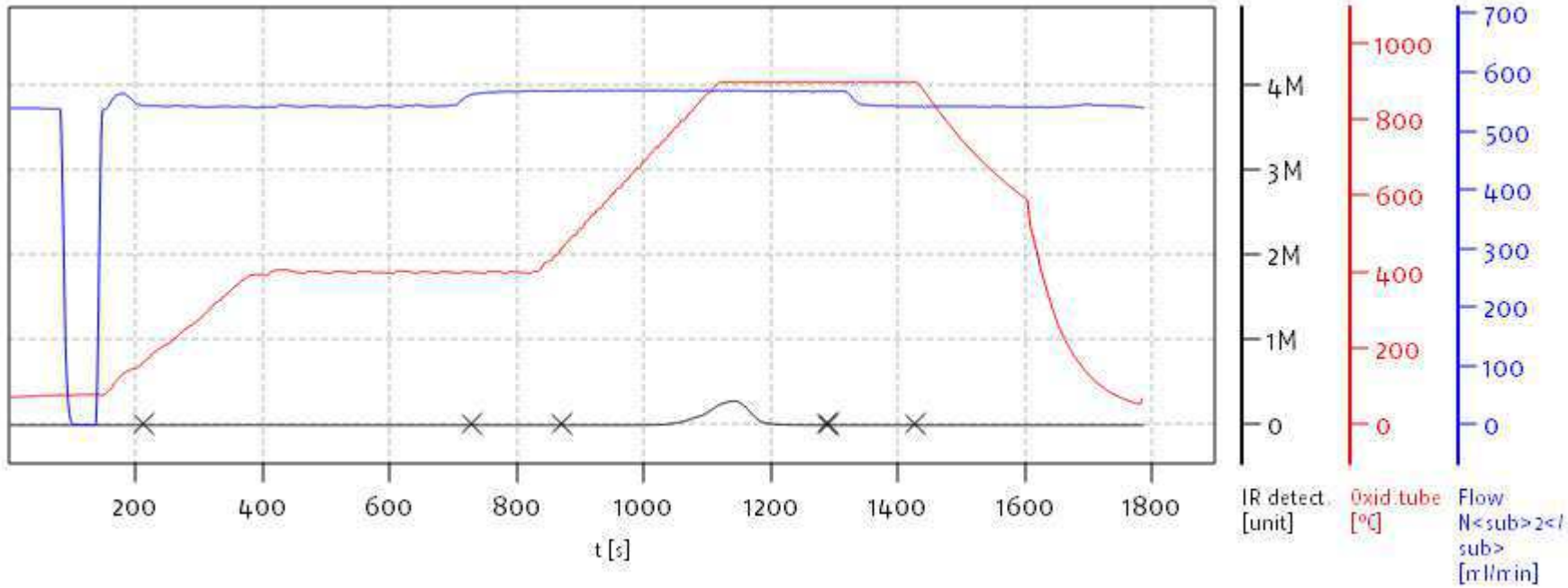
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
16	16	SEQ-CALE	200.00	0.0101	1.00	CARBON	4/26/2022 7:00 PM	0.009	0.600	0.609	bl,C1u,C2u	5 485	839 878	536	1.0000	0.9036



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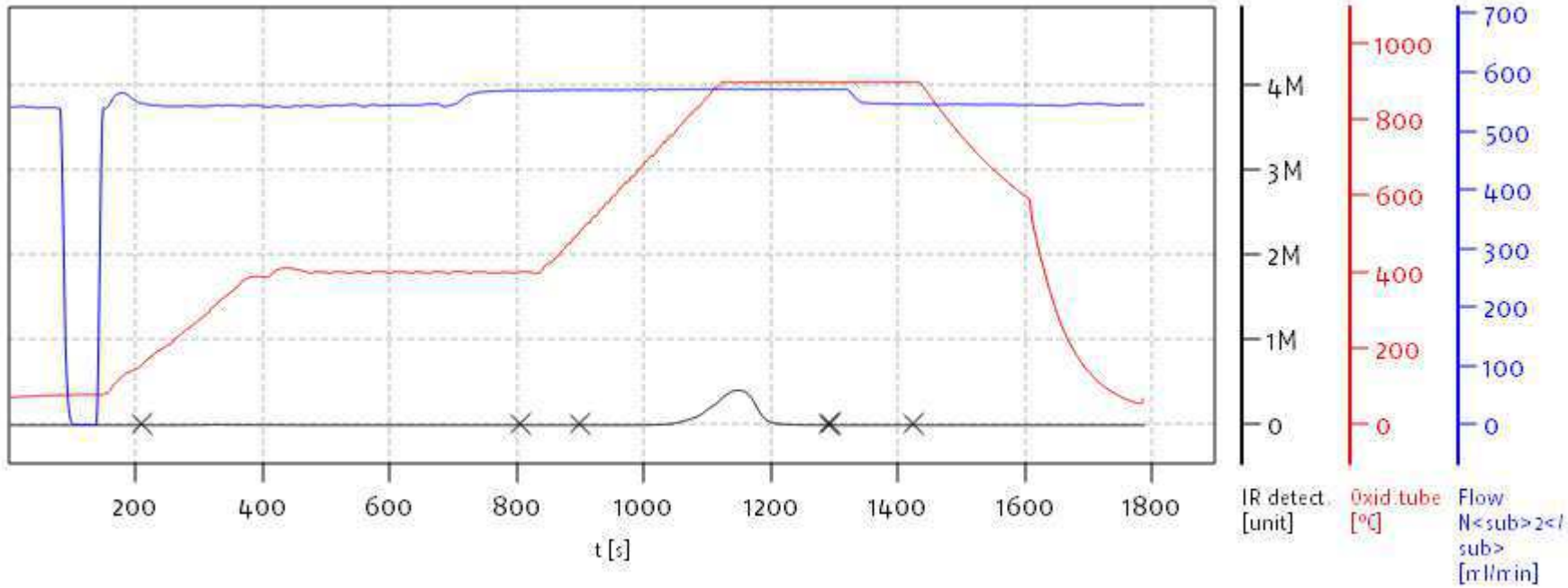
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
17	17	SEQ-CALF	200.00	0.0149	1.00	CARBON	4/26/2022 7:31 PM	0.019	0.906	0.925	bl,C2u	17 439	1 236 200	814	1.0000	0.9279



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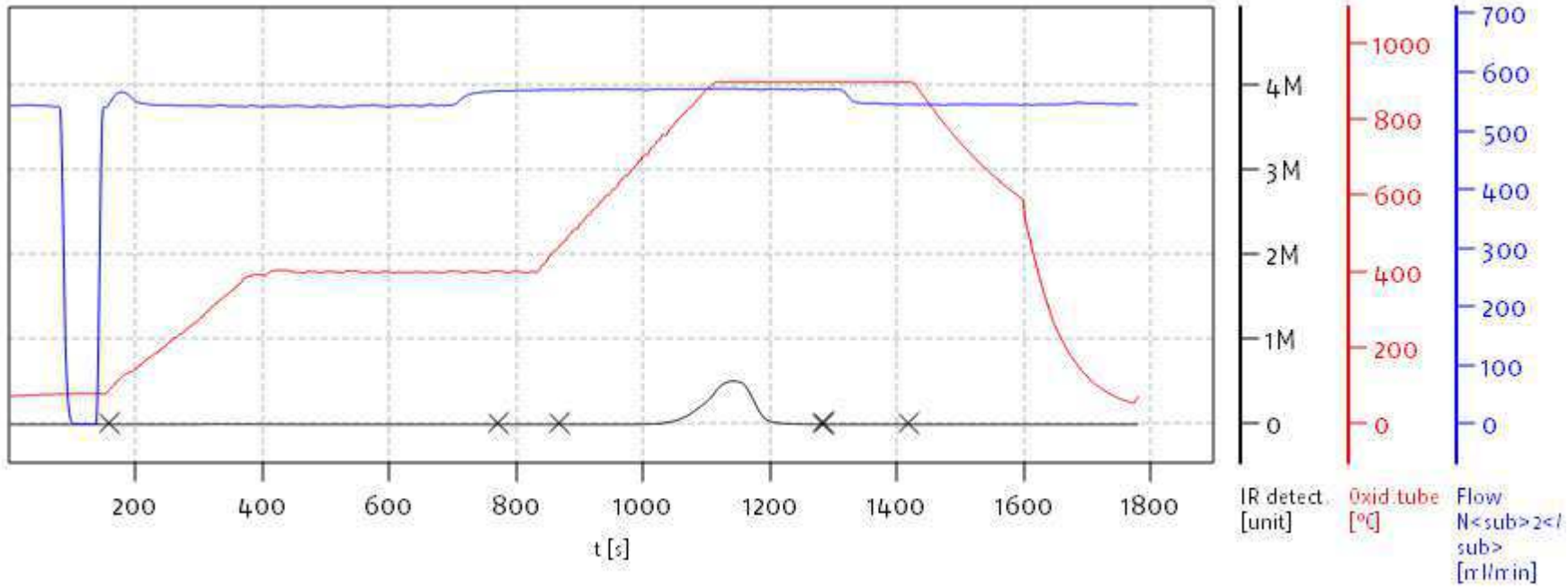
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
18	18	SEQ-CALG	200.00	0.0198	1.00	CARBON	4/26/2022 8:01 PM	0.015	1.206	1.221	bl,C2u	12 557	1 639 190	1 295	1.0000	0.9320



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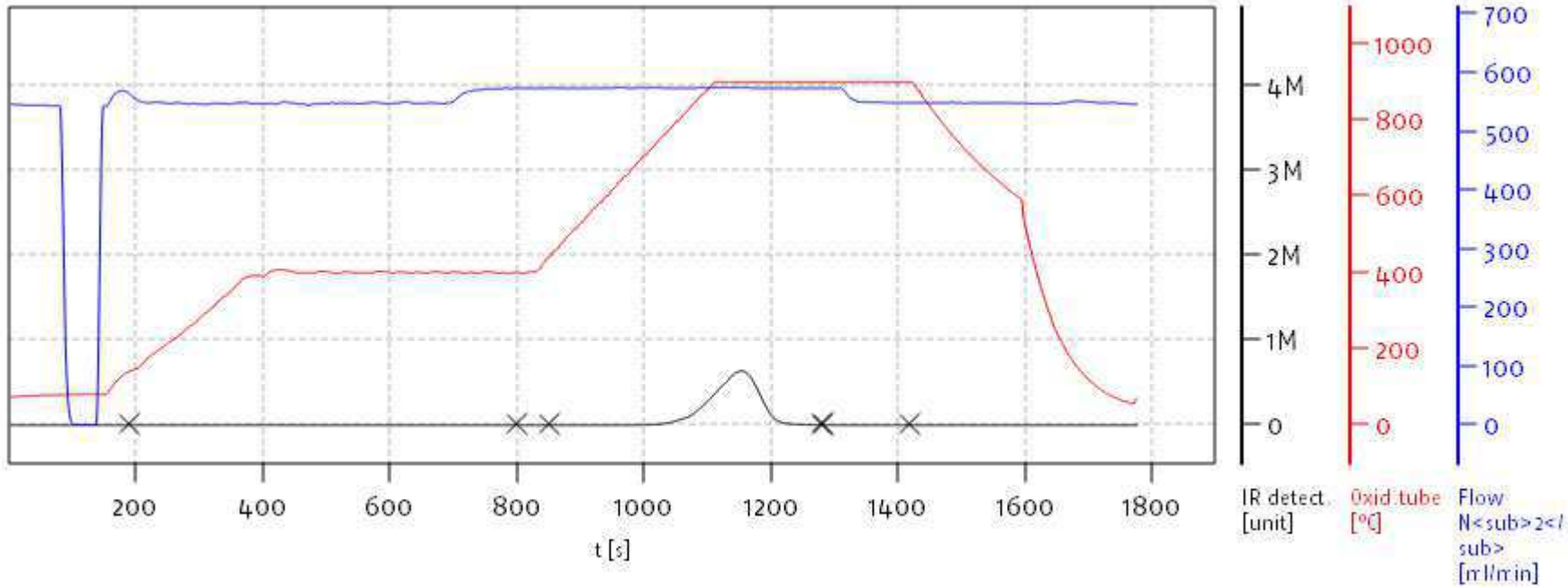
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
19	19	SEQ-CALH	200.00	0.0250	1.00	CARBON	4/26/2022 8:31 PM	0.009	1.524	1.533	bl,C1u,C2u	4 029	2 063 890	2 225	1.0000	0.9357



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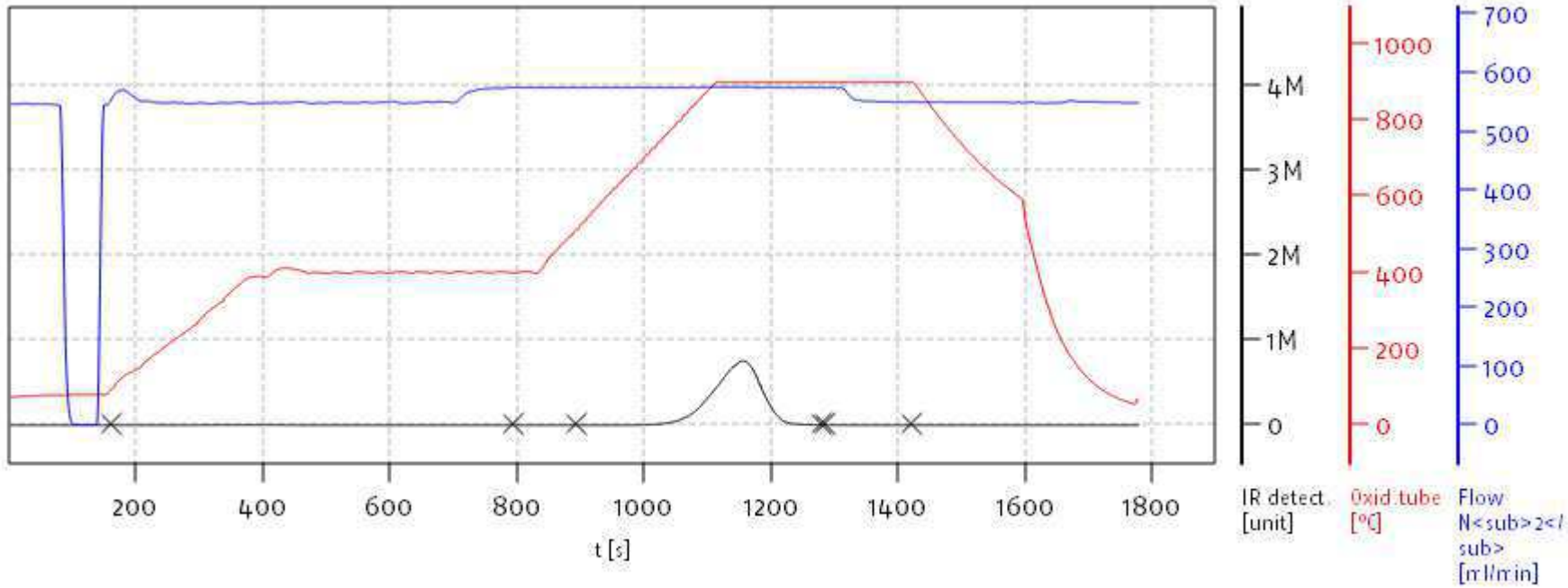
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
20	20	SEQ-CALI	200.00	0.0303	1.00	CARBON	4/26/2022 9:01 PM	0.017	1.800	1.817	bl,C2u	13 926	2 495 900	2 903	1.0000	0.9140



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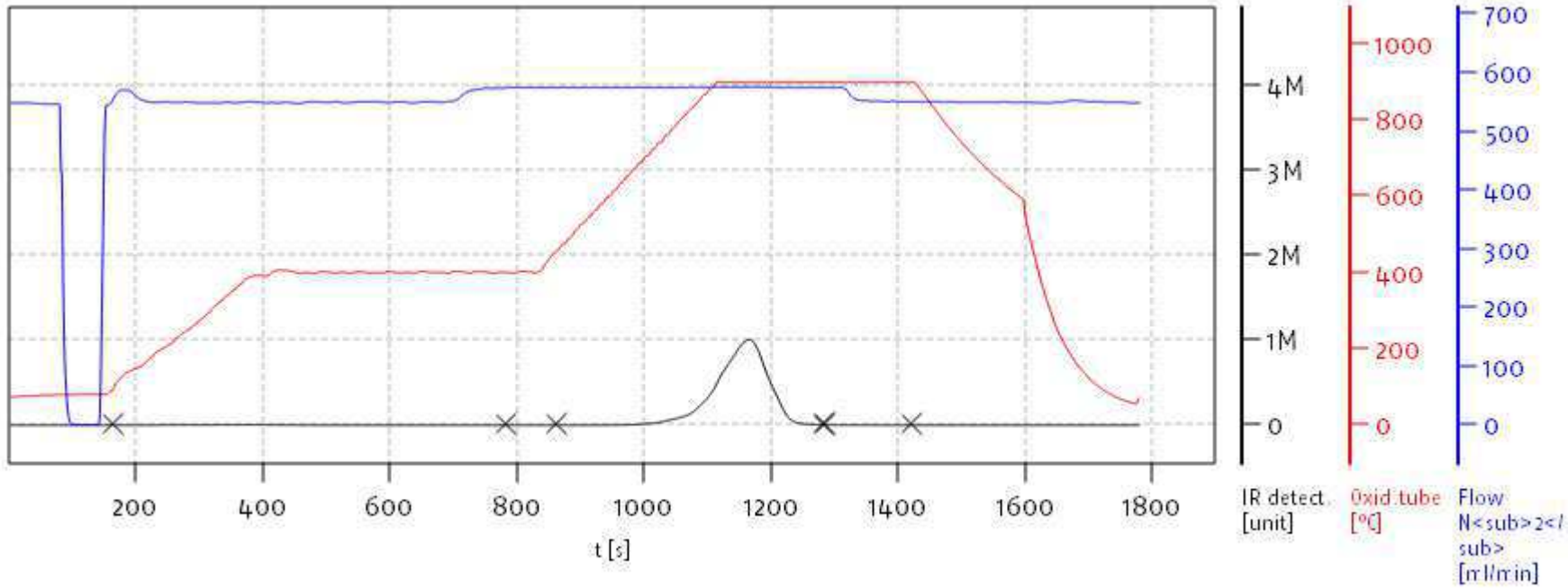
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
21	21	SEQ-CALJ	200.00	0.0415	1.00	CARBON	4/26/2022 9:31 PM	0.031	2.400	2.431	bl,C2u	28 786	3 482 530	5 351	1.0000	0.8737



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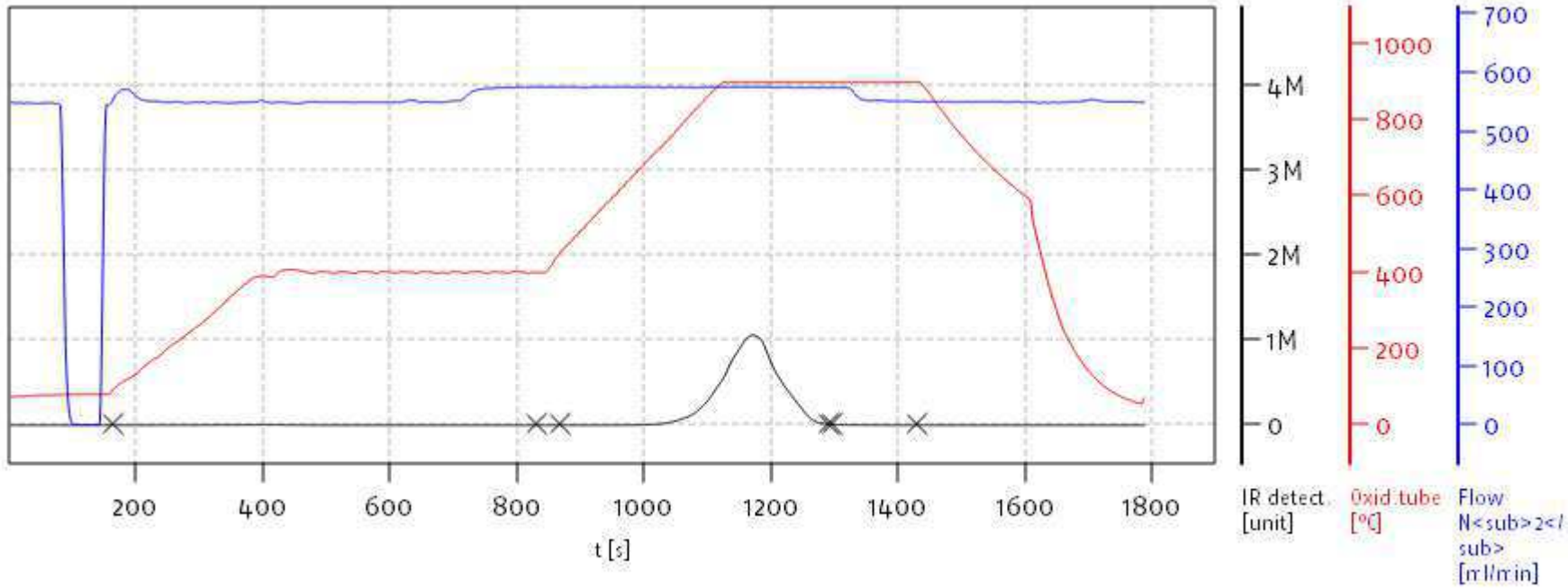
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
22	22	SEQ-CALK	200.00	0.0497	1.00	CARBON	4/26/2022 10:01 PM	0.031	3.012	3.043	bl	23 732	4 105 830	9 736	1.0000	0.9301



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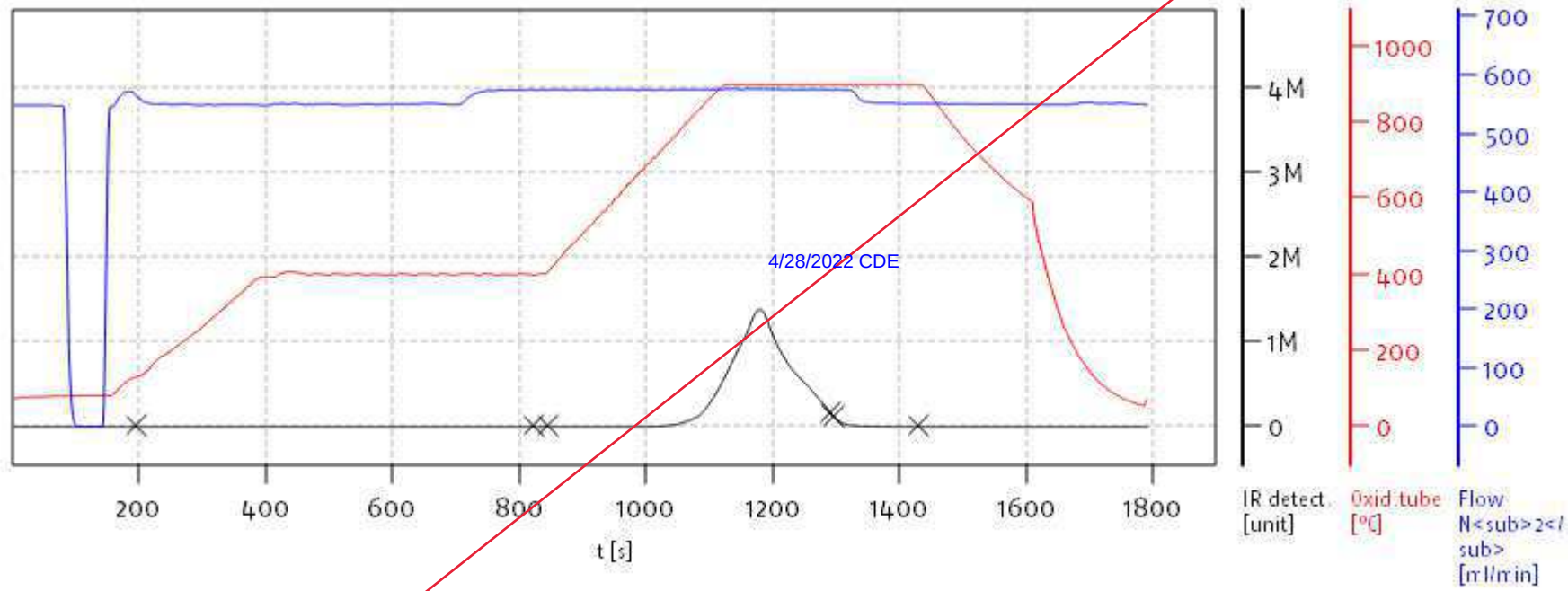
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
23	23	SEQ-CALL	200.00	0.0698	1.00	CARBON	4/26/2022 10:31 PM	0.005	3.805	3.810	bl,C1u	3 605	5 648 620	71 970	1.0000	0.9443



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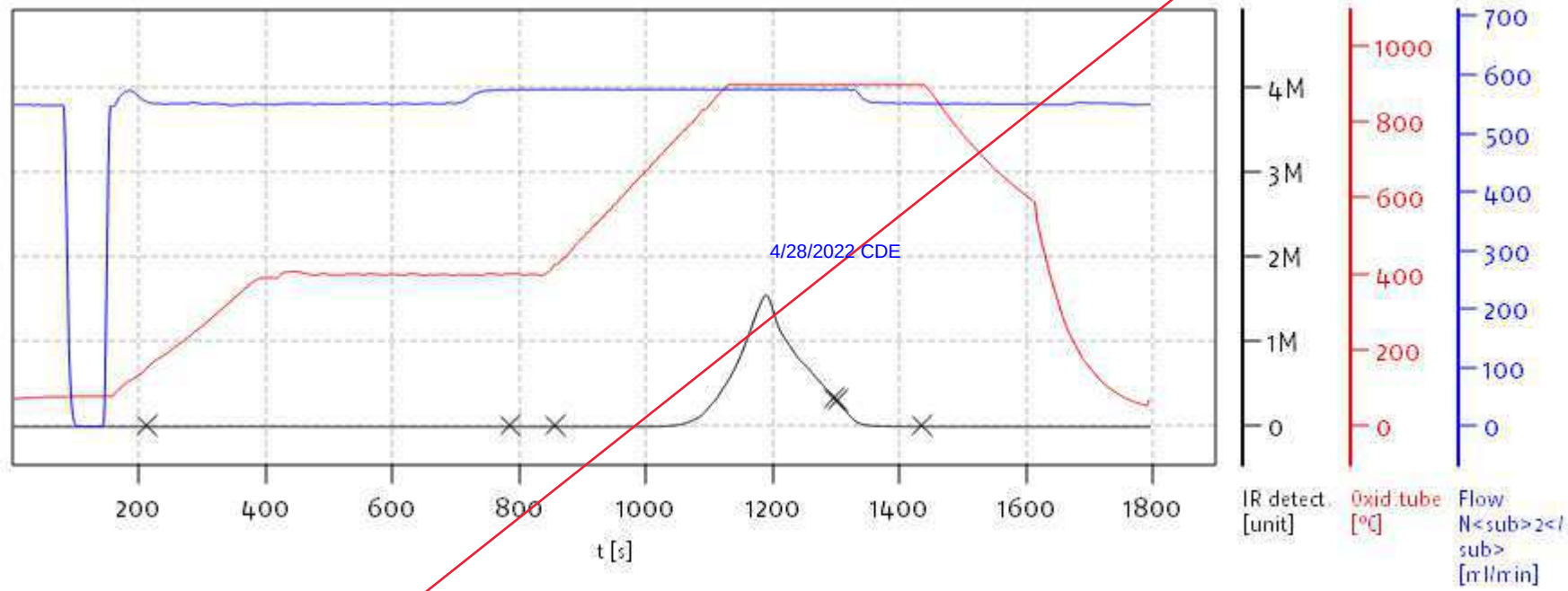
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
24	24	SEQ-CALM	200.00	0.0803	1.00	CARBON	4/26/2022 11:02 PM	0.010	4.637	4.647	bl	10 023	6 397 530	228 171	1.0000	0.9539



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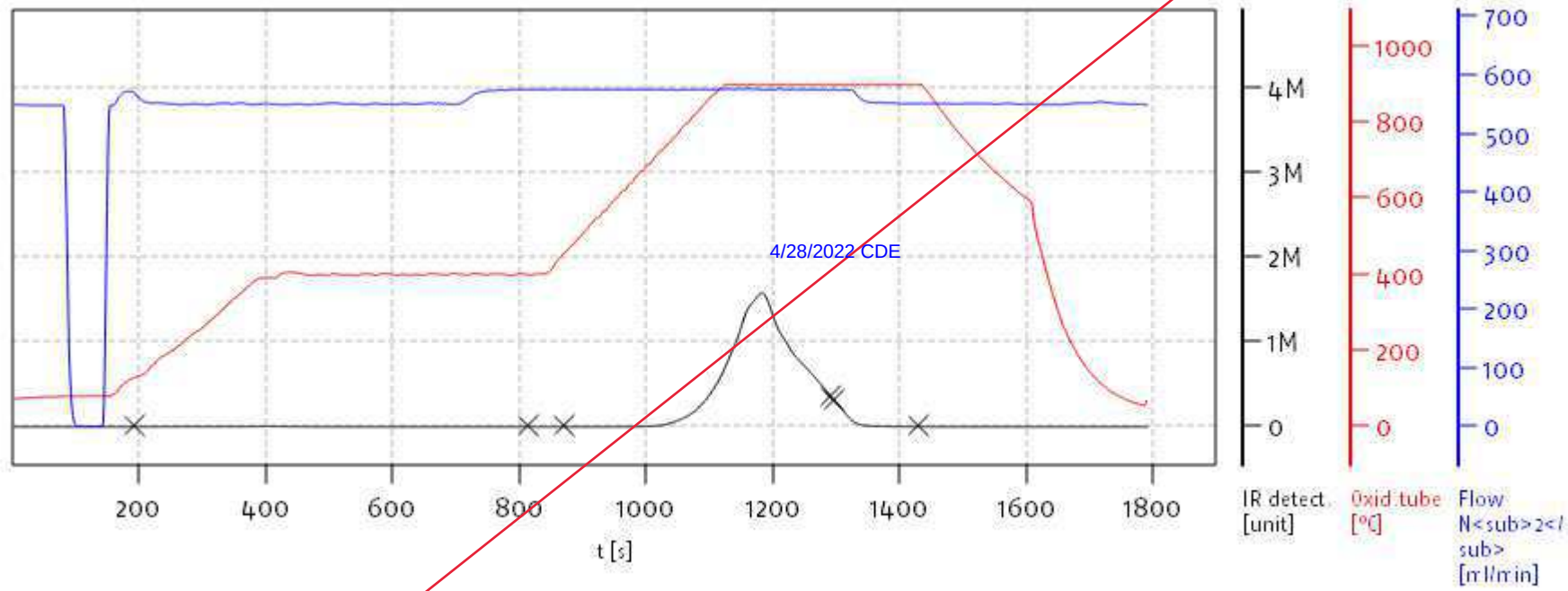
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

Analytical Resources, Incorporated
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
25	25	SEQ-CALN	200.00	0.0901	1.00	CARBON	4/26/2022 11:32 PM	0.020	5.219	5.239	bl	23 354	7 186 580	239 986	1.0000	0.9540



Name:

Access: soliTOC superuser

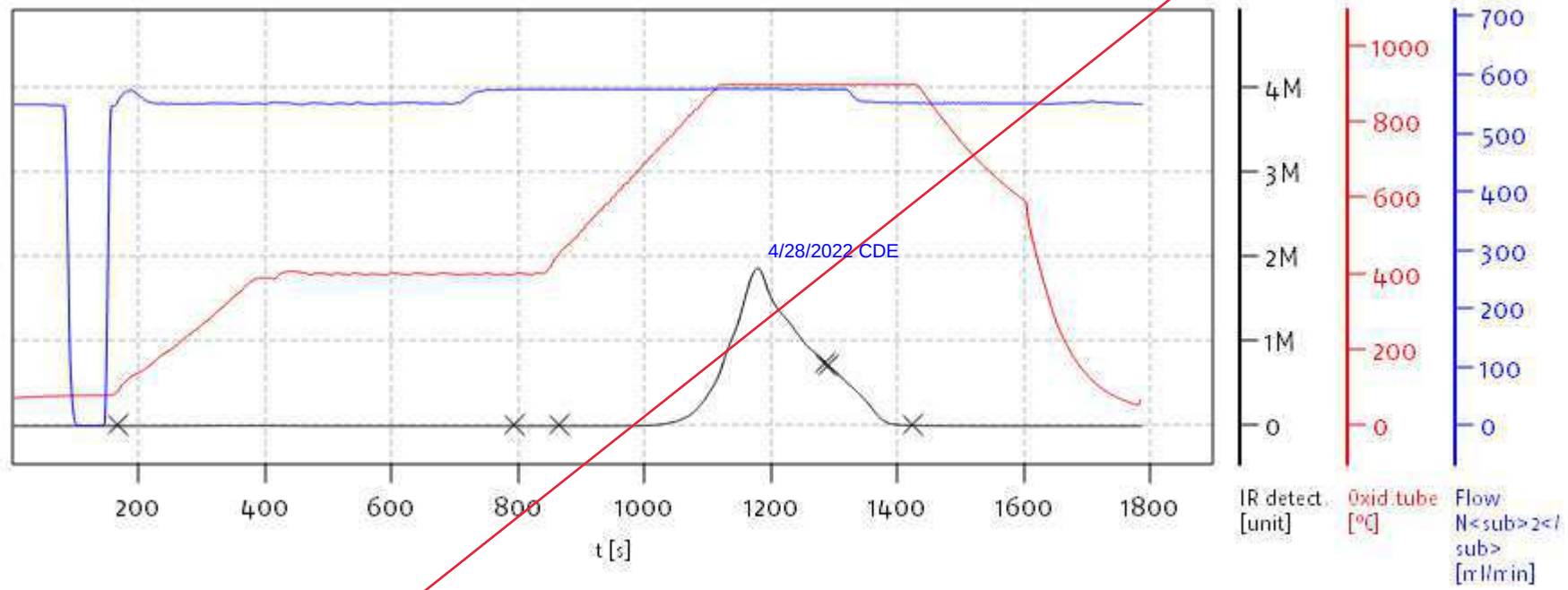
Date: Wed Apr 27 11:07:12 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
26	26	SEQ-CALO	200.00	0.1200	1.00	CARBON	4/27/2022 12:02 AM	0.019	7.915	7.934	bl,C3o	21 248	8 544 610	1 334 580	1.0000	1.0714



Name:

Access: soliTOC superuser

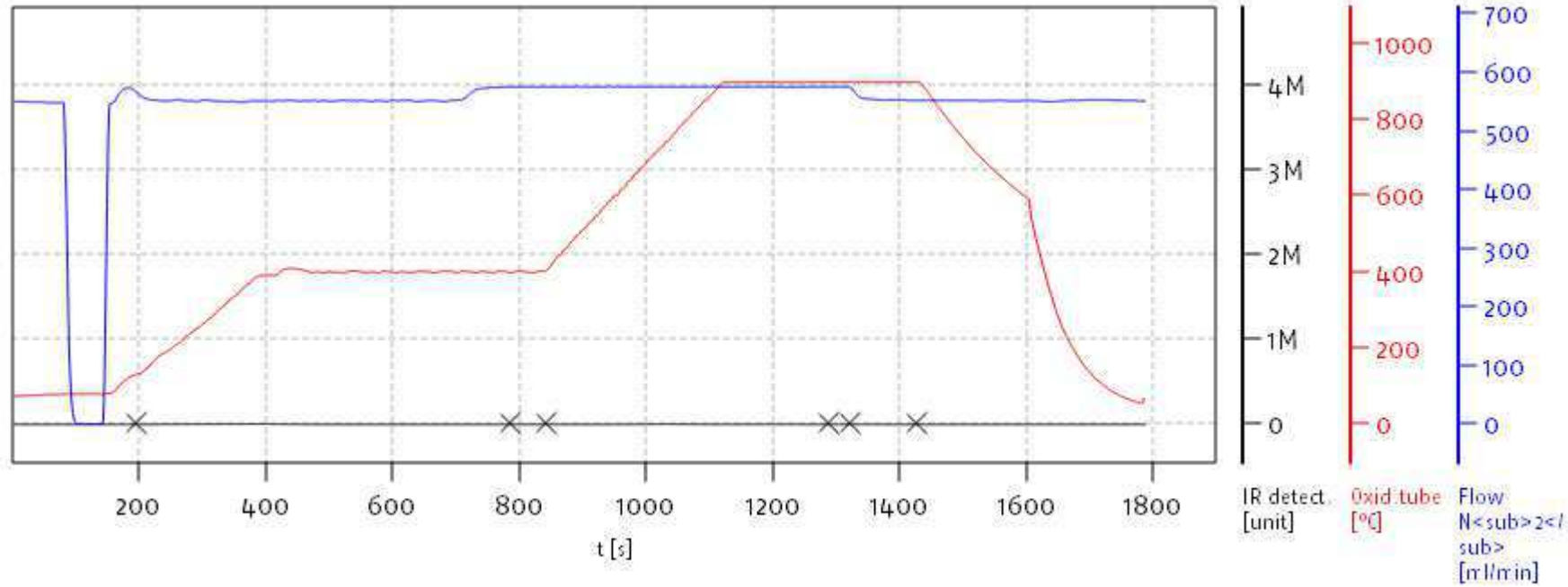
Date: Wed Apr 27 11:07:12 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
27	27	BLANK	1.00		1.00	CARBON	4/27/2022 12:32 AM	0.000	0.000	0.000	bl	29 766	19 596	1 205	1.0000	0.9007



Name:

Access: soliTOC superuser

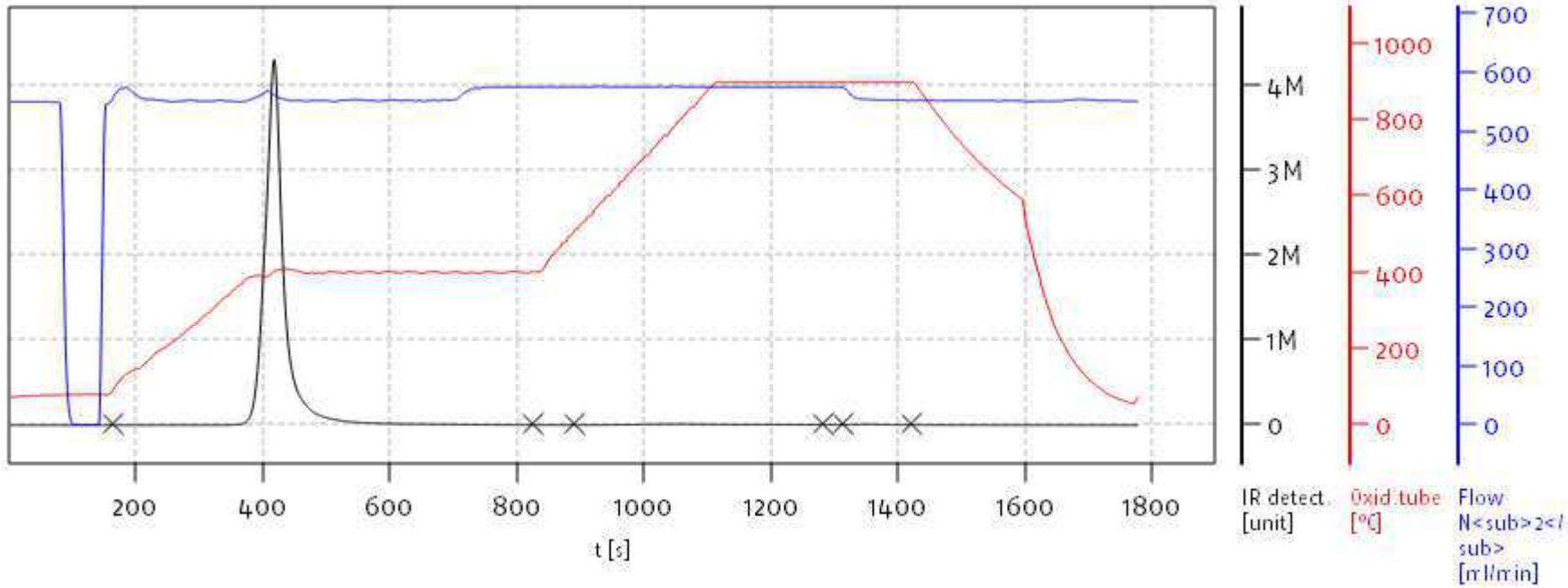
Date: Wed Apr 27 11:07:12 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
28	28	Dfactor	19.00		1.00	CARBON	4/27/2022 1:02 AM	44.678	0.893	45.571	bl	5 588 680	104 999	25 384	0.9581	1.0000



Name:

Access: soliTOC superuser

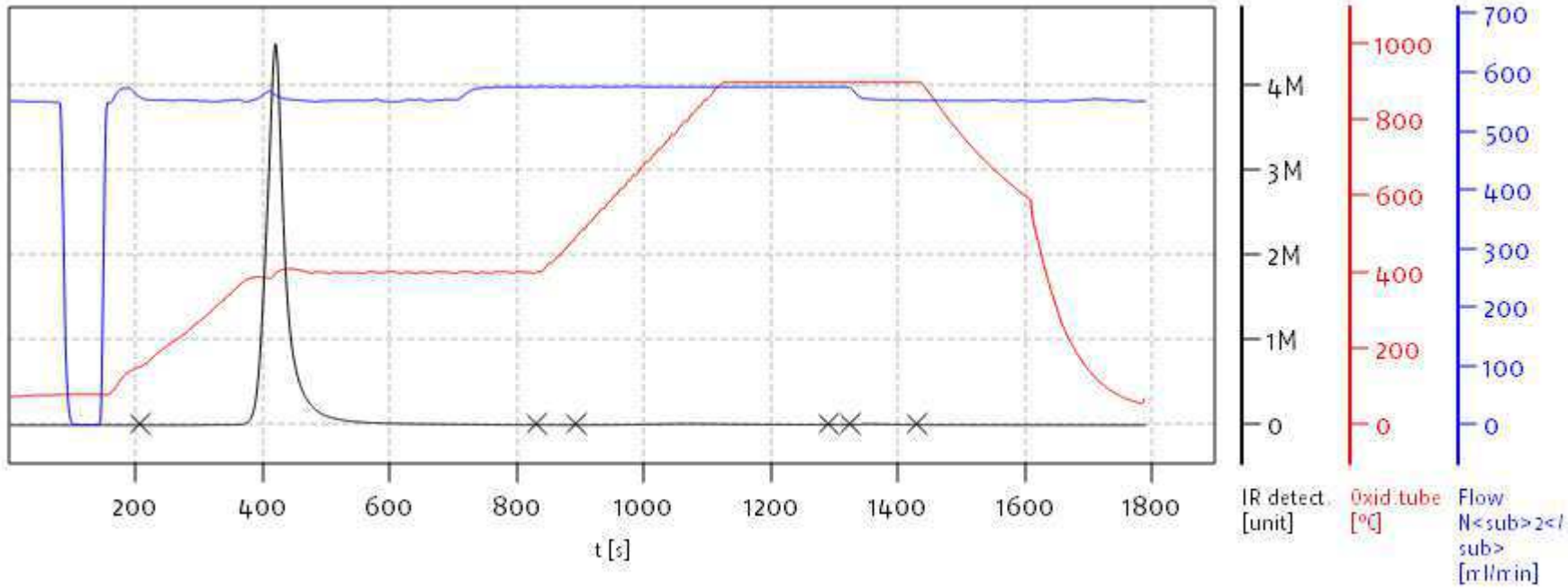
Date: Wed Apr 27 11:07:12 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
29	29	Dfactor	20.80		1.00	CARBON	4/27/2022 1:32 AM	44.694	0.937	45.631	bl	6 076 750	120 961	30 224	0.9647	1.0000



Name:

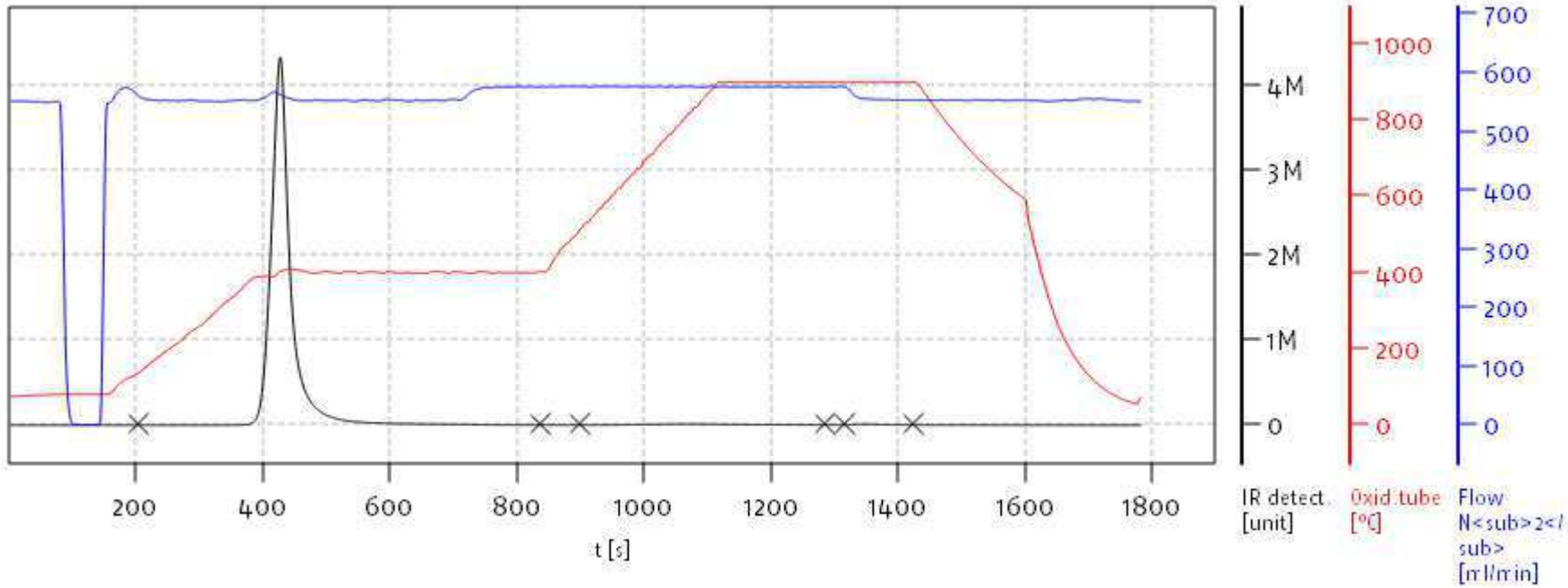
Access: soliTOC superuser

Date: Wed Apr 27 11:07:12 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
30	30	SEQ-ICV1	19.40		1.00	CARBON	4/27/2022 2:03 AM	44.964	0.742	45.706	bl	5 722 450	98 735	27 054	0.9614	0.9007



Name:

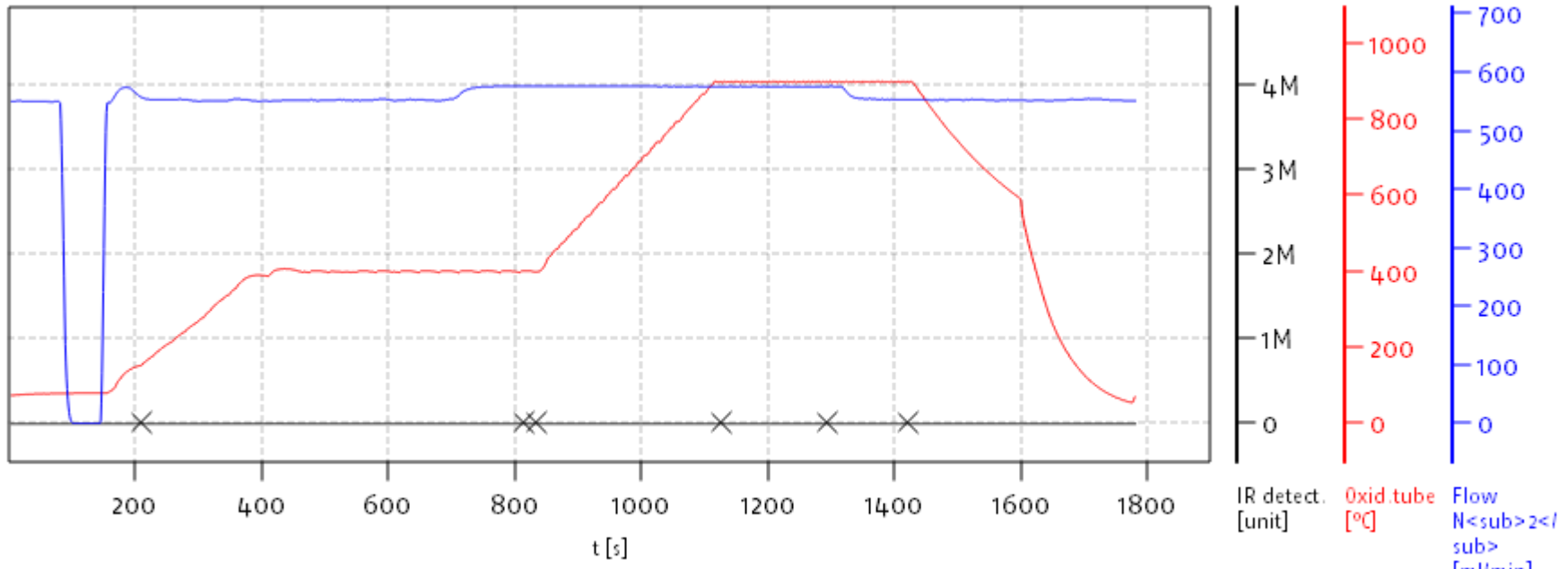
Access: soliTOC superuser

Date: Wed Apr 27 11:07:12 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
31	31	SEQ-ICB1	501.10		1.00	CARBON	4/27/2022 2:33 AM	0.002	0.001	0.003	bl,C1u,C3u,C2u	2 158	225	165	0.9614	0.9007



Name:

Access: soliTOC superuser

Date: Wed Apr 27 11:07:12 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

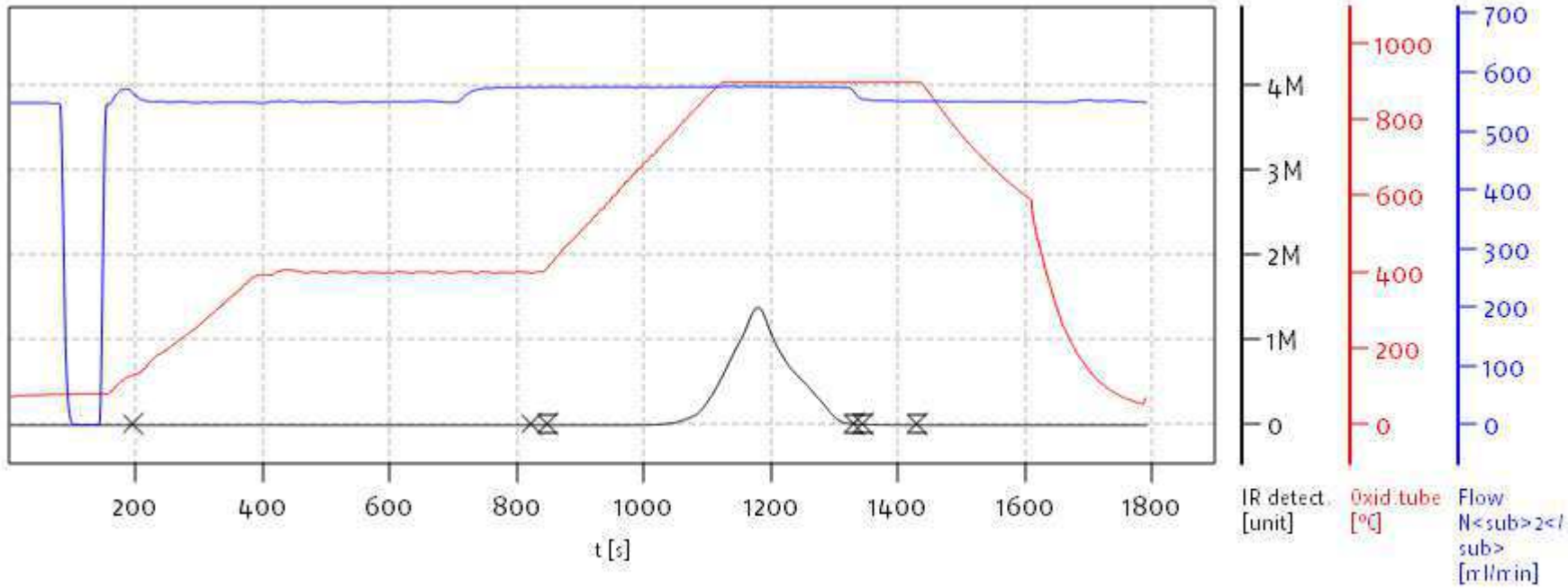
elementar
EXCELLENCE IN ELEMENTS

Document: 042622 DOE CALIBRATION from: 4/27/2022 11:05 AM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

Analytical Resources, Incorporated
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
23	23	SEQ-CALL	200.00	0.0698	1.00	CARBON	4/27/2022 11:08 AM	0.005	3.917	3.922	bl,C1u	3 605	**5 260 365**	**0**	1.0000	0.9443



Name:

Access: soliTOC superuser

Date: Wed Apr 27 11:10:16 2022

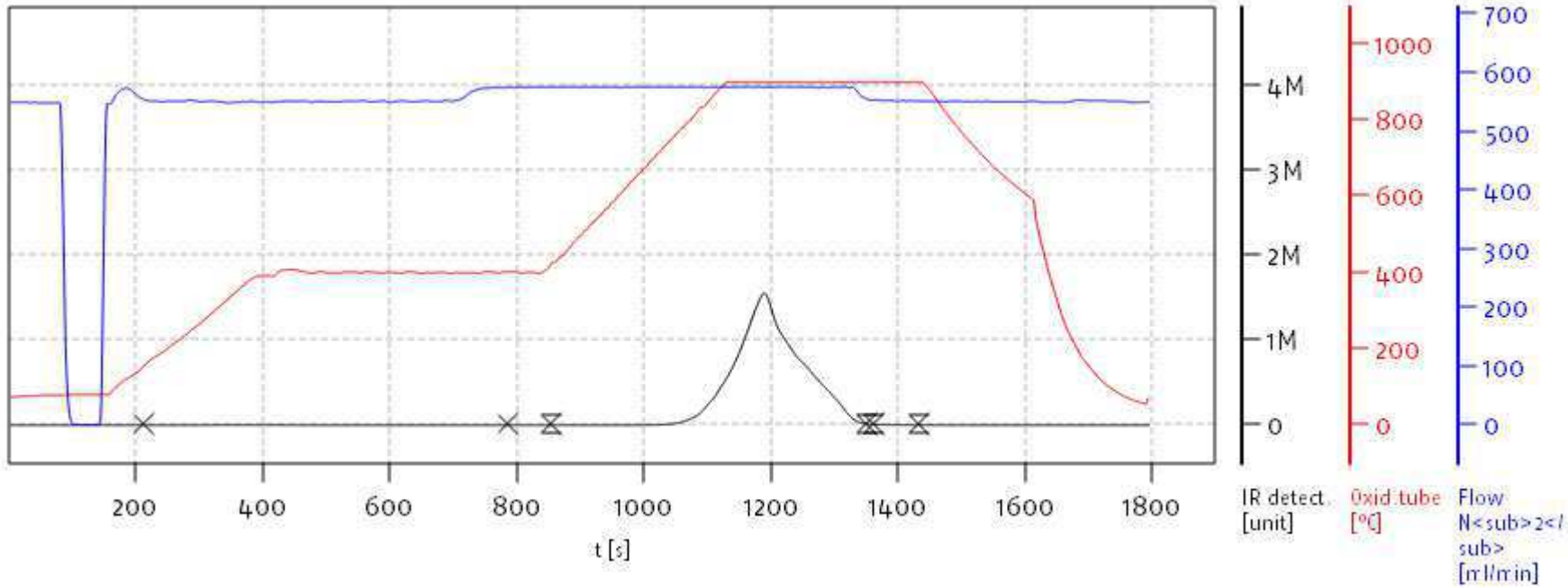
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Document: 042622 DOE CALIBRATION from: --.--.-- (modified)

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
24	24	SEQ-CALM	200.00	0.0803	1.00	CARBON	4/27/2022 11:08 AM	0.010	4.637	4.647	bl	10 023	**6 164 833**	**0**	1.0000	0.9539



Name:

Access: soliTOC superuser

Date: Wed Apr 27 11:10:16 2022

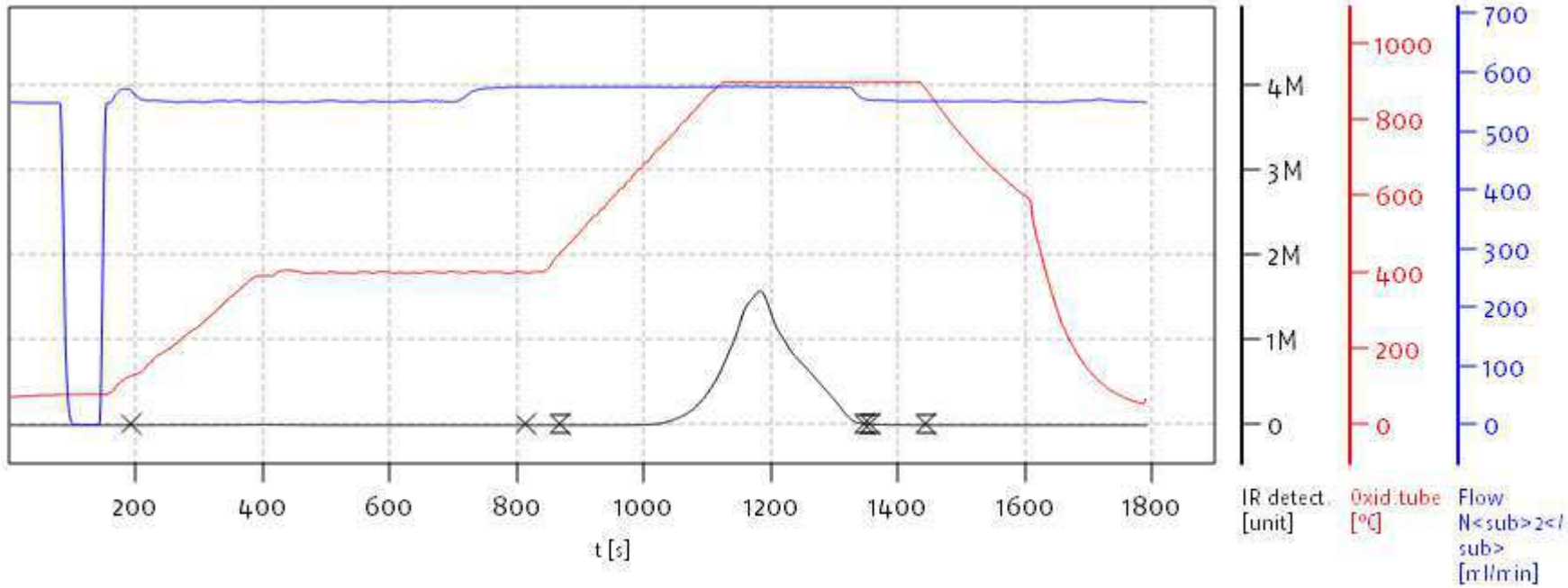
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Document: 042622 DOE CALIBRATION from: --.--.-- (modified)

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
25	25	SEQ-CALN	200.00	0.0901	1.00	CARBON	4/27/2022 11:09 AM	0.020	5.219	5.239	bl	23 354	**6 937 833**	**0**	1.0000	0.9540



Name:

Access: soliTOC superuser

Date: Wed Apr 27 11:10:16 2022

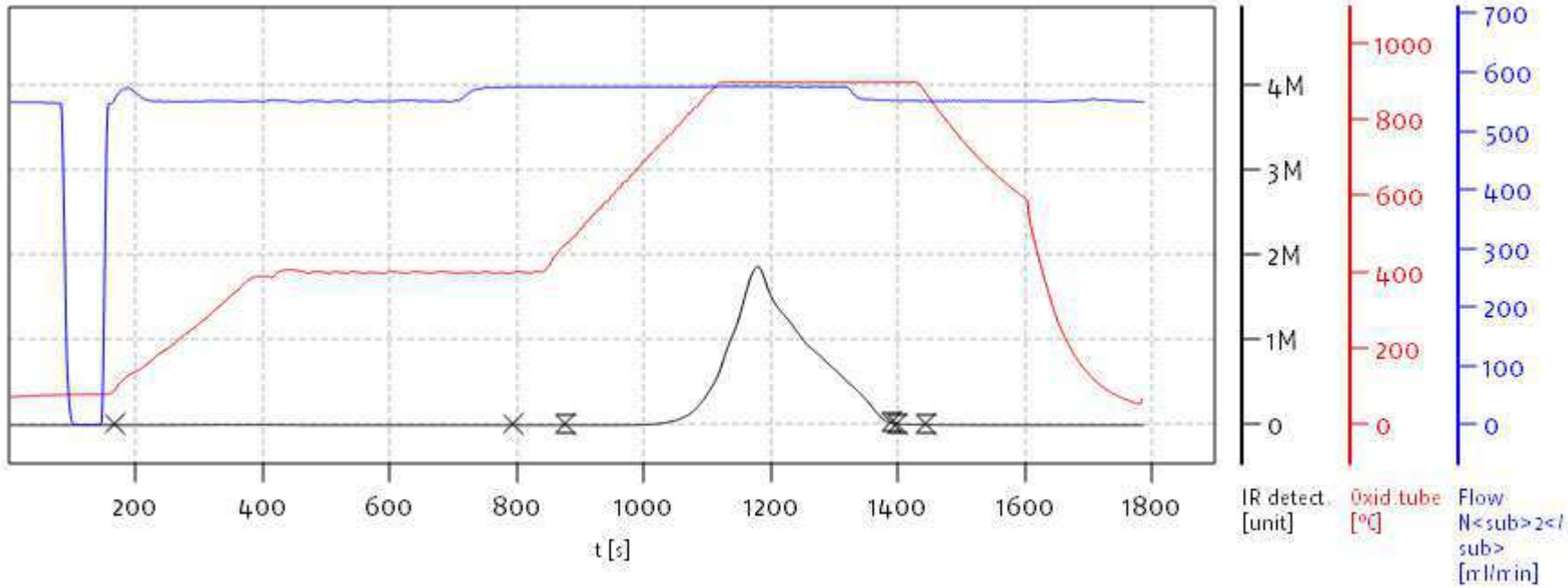
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Document: 042622 DOE CALIBRATION from: --.--.-- (modified)

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
26	26	SEQ-CALO	200.00	0.1200	1.00	CARBON	4/27/2022 11:09 AM	0.019	7.915	7.934	bl,C3o	21 248	9 370 139	0	1.0000	1.0714



Name:

Access: soliTOC superuser

Date: Wed Apr 27 11:10:16 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

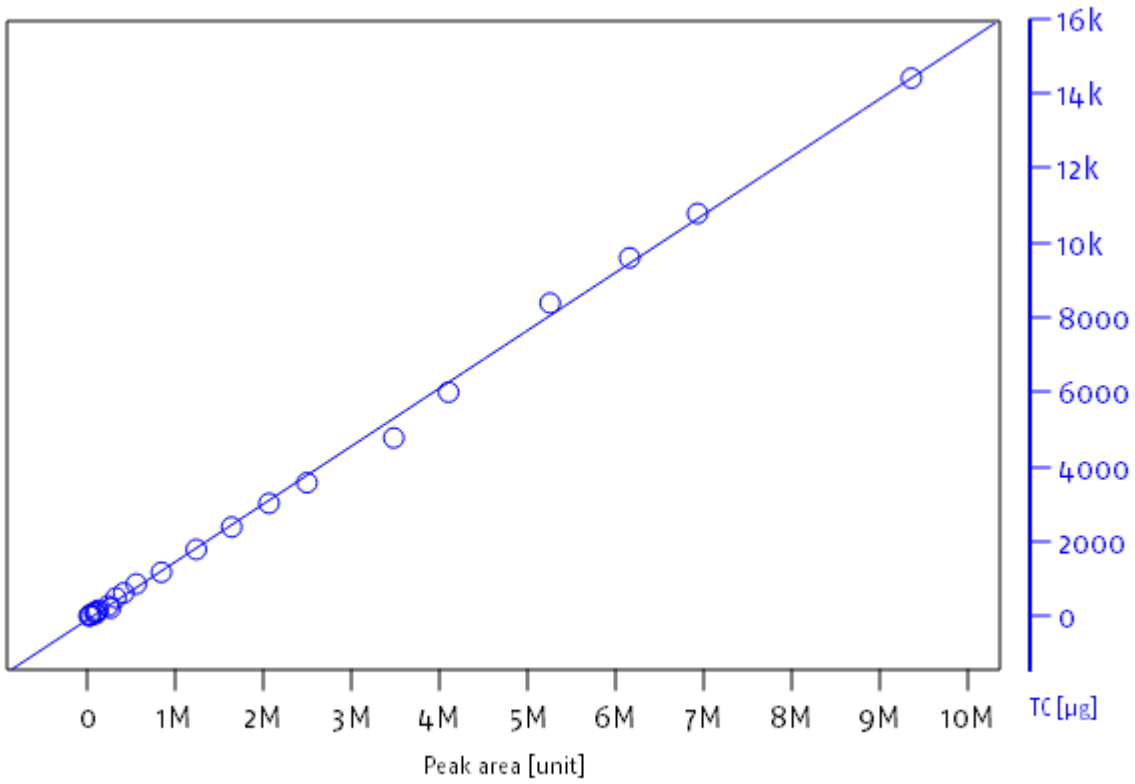
elementar
EXCELLENCE IN ELEMENTS

Document: 042622 DOE CALIBRATION from: --.--.-- (modified)

Calibration parameters TC, Whole range

a	-4.107546e-02
b	+1.548032e-06
c	+0.000000e+00
d	+0.000000e+00
e	+0.000000e+00
r	0.998372
r_old	0.998372
Proc.-SD	166.070255 µg

Calibration graph TC, Whole range



INSTRUMENT BLANKS
EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: TOC Cube
Calibration: FD00070
Sequence: SKD0371
Date Analyzed: 04/27/22 02:33

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SKD0371-ICB1	Total Organic Carbon	0.00	0.02	0.02	%	

INSTRUMENT BLANKS
EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: TOC Cube
Calibration: FD00070
Sequence: SLD0078
Date Analyzed: 04/06/23 12:27

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SLD0078-ICB1	Total Organic Carbon	0.002	0.02	0.02	%	
SLD0078-CCB1	Total Organic Carbon	0.005	0.02	0.02	%	
SLD0078-CCB2	Total Organic Carbon	0.00	0.02	0.02	%	
SLD0078-CCB3	Total Organic Carbon	0.00	0.02	0.02	%	
SLD0078-CCB4	Total Organic Carbon	0.00	0.02	0.02	%	

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: TOC Cube
Calibration: FD00070
Control Limt: +/- 10.00%
Sequence: SKD0371

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SKD0371-ICV1	Total Organic Carbon	44.446	43.7	98.3	%	EPA 9060A m
	Total Carbon	44.446	44.1	99.2	%	EPA 9060A m
	Total Inorganic Carbon	0.0000	0.40		%	EPA 9060A m
	% Soot	0.0000	0.004		%	EPA 9060A m

* Values outside of QC limits

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Instrument ID: TOC Cube
Calibration: FD00070
Control Limt: +/- 10.00%
Sequence: SLD0078

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SLD0078-ICV1	Total Organic Carbon	44.446	43.5	97.8	%	EPA 9060A m
SLD0078-CCV1	Total Organic Carbon	44.446	44.4	100	%	EPA 9060A m
SLD0078-CCV2	Total Organic Carbon	44.446	45.8	103	%	EPA 9060A m
SLD0078-CCV3	Total Organic Carbon	44.446	43.7	98.4	%	EPA 9060A m
SLD0078-CCV4	Total Organic Carbon	44.446	45.3	102	%	EPA 9060A m

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

STANDARD REFERENCE MATERIAL RECOVERY

EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Matrix: Solid
Laboratory ID: BLD0117-SRM1
Batch: BLD0117
Initial/Final: 0.3111 g / 0.3111 mL
Preparation: PSEP 1986 (modified)
Analyzed: 04/06/2023 14:28
Standard ID: L000790
Expires: 05/19/2024
Standard Lot#: NA
Description: 1941B - Organics in Marine Sediment (Conv

ANALYTE	TRUE (% wet)	FOUND (% wet)	MDL	MRL	Q	SRM % REC.	QC LIMITS REC.
Total Organic Carbon	2.9900	3.03	0.02	0.02		101	80 - 120

* Values outside of QC limits

HOLDING TIME SUMMARY

Analysis: EPA 9060A m

Laboratory: Analytical Resources, LLC SDG: 23C0071

Client: Anchor QEA, LLC Project: AOC5 MR Phase 1

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
LDW23-SS1000 23C0071-01	03/02/23 09:33	03/02/23 16:34	04/05/23 15:19	34	180	04/06/23 19:01			
LDW23-SS1037 23C0071-02	03/02/23 09:56	03/02/23 16:34	04/05/23 15:19	34	180	04/06/23 20:32			
LDW23-SS1036 23C0071-03	03/02/23 10:10	03/02/23 16:34	04/05/23 15:19	34	180	04/06/23 21:03			
LDW23-SS1044 23C0071-04	03/02/23 10:22	03/02/23 16:34	04/05/23 15:19	34	180	04/06/23 21:33			
LDW23-SS1048 23C0071-05	03/02/23 10:32	03/02/23 16:34	04/05/23 15:19	34	180	04/06/23 22:04			
LDW23-SS1054 23C0071-06	03/02/23 10:41	03/02/23 16:34	04/05/23 15:19	34	180	04/06/23 22:34			
LDW23-SC1054 23C0071-08	03/02/23 11:56	03/02/23 16:34	04/05/23 15:19	34	180	04/06/23 23:05			
LDW23-SC1048 23C0071-09	03/02/23 12:27	03/02/23 16:34	04/05/23 15:19	34	180	04/06/23 23:35			
LDW23-SC1036 23C0071-10	03/02/23 14:09	03/02/23 16:34	04/05/23 15:19	34	180	04/07/23 01:07			
Duplicate BLD0117-DUP3	03/02/23 09:33	03/02/23 16:34	04/05/23 15:19	34	180	04/06/23 19:31			
Matrix Spike BLD0117-MS2	03/02/23 09:33	03/02/23 16:34	04/05/23 15:19	34	180	04/06/23 20:02			

* Indicates hold time exceedance.

METHOD DETECTION AND REPORTING LIMITS

EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Matrix: Solid
Instrument: TOC Cube

Analyte	MDL	RL	Units
Total Organic Carbon	0.02	0.02	%

National Institute of Standards & Technology

Certificate of Analysis

Standard Reference Material® 1941b

Organics in Marine Sediment

This Standard Reference Material (SRM) is marine sediment collected at the mouth of the Baltimore (MD) Harbor. SRM 1941b is intended for use in evaluating analytical methods for the determination of selected polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyl (PCB) congeners, and chlorinated pesticides in marine sediment and similar matrices. Information values are also provided for total organic carbon (TOC), total carbon, hydrogen, and nitrogen. All of the constituents for which certified, reference, and information values are provided in SRM 1941b were naturally present in the sediment before processing. A unit of SRM 1941b consists of a bottle containing 50 g of radiation-sterilized, freeze-dried sediment.

Certified Mass Fraction Values: Certified mass fraction values for PAHs, PCB congeners, and chlorinated pesticides are provided in Table 1 through Table 3. The certified values for the PAHs, PCB congeners, and chlorinated pesticides are based on the agreement of results obtained at NIST from two or more chemically independent analytical techniques along with results from an interlaboratory comparison study [1]. A NIST certified value is a value for which NIST has the highest confidence in its accuracy in that all known or suspected sources of bias have been investigated or taken into account [1].

Reference Mass Fraction Values: Reference mass fraction values for additional PAHs (some in combination), additional PCB congeners, and additional chlorinated pesticides are provided in Table 4 through Table 7. Reference values for alkylated PAH groups are provided in Table 8 and for selected hopanes and steranes in Table 9. A reference value for total organic carbon is provided in Table 10. Reference values are noncertified values that are the best estimate of the true value; however, the values do not meet the NIST criteria for certification and are provided with associated uncertainties that may reflect only measurement precision, may not include all sources of uncertainty, or may reflect a lack of sufficient statistical agreement among multiple analytical methods [1].

Information Mass Fraction Values: Information mass fraction values are provided in Table 11 for carbon, hydrogen, and nitrogen. An information value is considered to be a value that will be of use to the SRM user, but insufficient information is available to assess the uncertainty associated with the value [1]. Information values cannot be used to establish metrological traceability.

Expiration of Certification: The certification of **SRM 1941b** is valid, within the measurement uncertainty specified, until **01 October 2020**, provided the SRM is handled and stored in accordance with the instructions given in this certificate (see "Instructions for Handling, Storage, and Use"). This certification is nullified if the SRM is damaged, contaminated, or otherwise modified.

Maintenance of SRM Certification: NIST will monitor this SRM over the period of its certification. If substantive technical changes occur that affect the certification before the expiration of this certificate, NIST will notify the purchaser. Registration (see attached sheet or register online) will facilitate notification.

Coordination of the technical measurements leading to the certification of this material was under the leadership of M.M. Schantz and S.A. Wise of the NIST Chemical Sciences Division.

Analytical measurements for the certification of SRM 1941b were performed at NIST by J.R. Kucklick, B.J. Porter, D.L. Poster, M.M. Schantz, P. Schubert, S. Tutschku, and L.L. Yu of the NIST Chemical Sciences Division.

Carlos A. Gonzalez, Chief
Chemical Sciences Division

Gaithersburg, MD 20899
Certificate Issue Date: 16 January 2015

Robert L. Watters, Jr., Director
Office of Reference Materials

Measurements for TOC were provided by a commercial laboratory and T.L. Wade of the Geochemical and Environmental Research Group, Texas A&M University (College Station, TX). The carbon, hydrogen, and nitrogen data were provided by a commercial laboratory. Results for the PAHs, PCBs, and chlorinated pesticides from 38 laboratories (see Appendix A) that participated in an interlaboratory comparison exercise coordinated by NIST were used. Results for the alkylated PAH groups, hopanes, and steranes from 33 laboratories (see Appendix B) that participated in another interlaboratory comparison exercise coordinated by NIST were also used.

Collection and preparation of SRM 1941b were performed by M.P. Cronise and C.N. Fales of the NIST Office of Reference Materials and B.J. Porter and M.M. Schantz of the NIST Chemical Sciences Division. The sediment material was collected with the assistance of G.G. Lauenstein, J. Collier, and J. Lewis (National Oceanic and Atmospheric Administration, Silver Spring, MD).

Consultation on the statistical design of the experimental work and evaluation of the data were provided by S.D. Leigh and J.H. Yen of the NIST Statistical Engineering Division.

Support aspects involved in the issuance of this SRM were coordinated through the NIST Office of Reference Materials.

INSTRUCTIONS FOR HANDLING, STORAGE, AND USE

Handling: This material is naturally occurring marine sediment from an urban area and may contain constituents of unknown toxicities; therefore, caution and care should be exercised during its handling and use.

Storage: SRM 1941b must be stored in its original bottle at temperatures less than 30 °C and away from direct sunlight.

Use: Prior to removal of subsamples for analysis, the contents of the bottle should be mixed. The mass fractions of constituents in SRM 1941b are reported on a dry-mass basis. The SRM, as received, contains a mass fraction of approximately 2.4 % moisture (see "Conversion to Dry-Mass Basis"). The sediment sample should be dried to a constant mass before weighing for analysis; or a separate subsample of the sediment should be removed from the bottle at the time of analysis and dried to determine the mass fraction on a dry-mass basis. If the constituents of interest are volatile, then the moisture must be determined with a separate subsample.

PREPARATION AND ANALYSIS[1]

Sample Collection and Preparation: The sediment used to prepare this SRM was collected from the Chesapeake Bay at the mouth of the Baltimore (MD) Harbor near the Francis Scott Key Bridge (39°12.3'N and 76°31.4'W). This location is very near the site where SRM 1941 and SRM 1941a were collected. The sediment was collected using a Kynar-coated modified Van Veen-type grab sampler. A total of approximately 3300 kg of wet sediment was collected from the site. The sediment was freeze-dried, sieved at 150 μm (100 % passing), homogenized in a cone blender, radiation sterilized (^{60}Co), and then packaged in screw-capped amber glass bottles each containing approximately 50 g.

Conversion to Dry-Mass Basis: The results for the constituents in SRM 1941b are reported on a dry-mass basis; however, the material "as received" contains residual moisture. The amount of moisture in SRM 1941b was determined by measuring the mass loss after freeze-drying subsamples of 1.1 g to 1.3 g for four days at 1 Pa with a –10 °C shelf temperature and a –50 °C condenser temperature. The moisture content in SRM 1941b at the time of the certification analyses was 2.39 % ± 0.08 % (95 % confidence level). Analytical results for the organic constituents were determined on an as-received basis and then converted to a dry-mass basis by dividing by the conversion factor of 0.9761 (gram dry mass per gram as-received mass).

Polycyclic Aromatic Hydrocarbons: The general approach used for the value assignment of the PAHs in SRM 1941b was similar to that reported in detail elsewhere [2]. The approach consisted of combining results from analyses using various combinations of different extraction techniques and solvents, clean-up/isolation procedures, and chromatographic separation and detection techniques: Soxhlet extraction and pressurized-fluid extraction (PFE) using dichloromethane (DCM) or a hexane/acetone mixture, cleanup of the extracts using solid-phase extraction (SPE) or normal-phase liquid chromatography (LC), followed by analysis using the following techniques: (1) reversed-phase liquid chromatography with fluorescence detection (LC-FL) analysis of the total PAH fraction, (2) reversed-phase

[1] Certain commercial equipment, instruments or materials are identified in this certificate to adequately specify the experimental procedure. Such identification does not imply recommendation or endorsement by the National Institute of Standards

LC-FL analysis of isomeric PAH fractions isolated by normal-phase LC (i.e., multidimensional LC), (3) gas chromatography/mass spectrometry (GC/MS) analysis of the PAH fraction on three stationary phases of different selectivity, i.e., a 5 % (all column compositions are given as mole fractions in %) phenyl-substituted methylpolysiloxane phase, a 50 % phenyl-substituted methylpolysiloxane phase, and a relatively non-polar proprietary phase.

Three sets of GC/MS results, designated as GC/MS (I), GC/MS (II), and GC/MS (III), were obtained using three columns with different selectivities for the separation of PAHs. For GC/MS (I) analyses, duplicate subsamples of approximately 1 g from ten bottles of SRM 1941b were extracted using PFE with DCM. Copper powder was added to the extract to remove elemental sulfur. The concentrated extract was passed through an aminopropyl SPE cartridge and eluted with 2 % DCM in hexane (all solvent concentrations are given as volume fractions in %). The processed extract was then analyzed by GC/MS using a 0.25 mm i.d. × 60 m fused silica capillary column with a 5 % phenyl-substituted methylpolysiloxane phase (0.25 μm film thickness; DB-5 MS, J&W Scientific, Folsom, CA). The GC/MS (II) analyses were performed using 5 g subsamples from six bottles of SRM 1941b. These samples were extracted using PFE with DCM. The high molecular mass compounds were removed from the extracts using size exclusion chromatography (SEC) with a preparative-scale divinylbenzene-polystyrene column (10 μm particle size with 10 nm diameter pores), and the sulfur was removed from the extracts by adding copper powder. The concentrated extract was passed through an aminopropyl SPE cartridge and eluted with 10 % DCM in hexane. The analysis was by GC/MS using a 0.25 mm i.d. × 60 m fused silica capillary column with a 50 % phenyl-substituted methylpolysiloxane phase (0.25 μm film thickness; DB-17 MS, J&W Scientific). For the GC/MS (III), 9 g subsamples from six bottles of SRM 1941b were Soxhlet-extracted for 18 h with 250 mL of a mixture of 50 % hexane/50 % acetone. Copper powder was added to the extract to remove elemental sulfur, and the concentrated extract was passed through a silica SPE cartridge and eluted with 10 % DCM in hexane. The processed extract was then analyzed by GC/MS using a 0.25 mm i.d. × 60 m fused silica capillary column with a relatively non-polar proprietary phase (0.25 μm film thickness; DB-XLB, J&W Scientific).

Two sets of LC-FL results, designated as LC-FL (total) and LC-FL (isomer), were used in the certification process. For the LC-FL (total), subsamples of approximately 1 g from six bottles of SRM 1941b were extracted using PFE with a mixture of 50 % hexane/50 % acetone. The extracts were concentrated and then processed through an aminopropylsilane SPE cartridge using 2 % DCM in hexane to obtain the total PAH fraction. For the LC-FL (isomer), a 5 g subsample from the six bottles was extracted using PFE with DCM and processed through an aminopropylsilane SPE cartridge using 10 % DCM in hexane; the PAH fraction was then fractionated further on a semi-preparative aminopropylsilane column (μBondapak NH_2, 9 mm i.d. × 30 cm, Waters Associates, Milford, MA) to isolate isomeric PAH fractions as described previously [3–6]. The total PAH fraction and the isomeric PAH fractions were analyzed using a 5 μm particle-size polymeric octadecylsilane (C_{18}) column (4.6 mm i.d. × 25 cm, Hypersil-PAH, Keystone Scientific, Inc., Bellefonte, PA) with wavelength-programmed fluorescence detection [4,5].

For the GC/MS and LC-FL measurements described above, selected perdeuterated PAHs were added to the sediment prior to solvent extraction for use as internal standards for quantification purposes.

In addition to the analyses performed at NIST, SRM 1941b was used in an interlaboratory comparison exercise in 1999 as part of the NIST Intercomparison Exercise Program for Organic Contaminants in the Marine Environment [7]. Results from 38 laboratories that participated in this exercise were used as the sixth data set in the determination of the certified values for PAHs in SRM 1941b. The laboratories participating in this exercise used the analytical procedures routinely used in their laboratories to measure the analytes of interest.

Homogeneity Assessment for PAHs: The homogeneity of SRM 1941b was assessed by analyzing duplicate samples of approximately 1 g from ten bottles selected by stratified random sampling. Samples were extracted, processed, and analyzed as described above for GC/MS (I). No statistically significant differences among bottles were observed for the PAHs at this sample size.

PAH Isomers of Molecular Mass 300 and 302: For the determination of the molecular mass 300 and 302 isomers, three subsamples of approximately 5 g each were extracted using PFE with DCM. The extracts were then concentrated with a solvent change to hexane and passed through an aminopropyl SPE cartridge and eluted with 10 % DCM in hexane. The processed extract was then analyzed by GC/MS using a 0.25 mm i.d. × 60 m fused silica capillary column with a 50 % phenyl-substituted methylpolysiloxane phase (0.25 μm film thickness; DB-17MS, J&W Scientific). Perdeuterated dibenzo[*a,i*]pyrene was added to the sediment prior to extraction for use as an internal standard [8].

PCBs and Chlorinated Pesticides: The general approach used for the determination of PCBs and chlorinated pesticides in SRM 1941b consisted of combining results from analyses using various combinations of different extraction techniques and solvents, cleanup/isolation procedures, and chromatographic separation and detection techniques. Techniques and solvents included Soxhlet extraction and PFE using DCM or a hexane/acetone mixture.

clean-up/isolation using SPE or LC, followed by analysis using GC/MS and gas chromatography with electron capture detection (GC-ECD) on two columns with different selectivity for the separation of PCBs and chlorinated pesticides. The analytical methods are described in detail elsewhere [2].

Six sets of results were obtained and designated as GC-ECD (I) A and B, GC/MS (I) A and B, GC/MS (II), and Interlaboratory Comparison Exercise. For the GC-ECD (I) analyses, approximately 10 g subsamples from six bottles of SRM 1941b were extracted using PFE with DCM. Copper powder was added to the extract to remove elemental sulfur, and SEC, as described above, was used to remove the high molecular mass compounds. The concentrated extract was then fractionated on a semi-preparative aminopropylsilane column to isolate two fractions containing: (1) the PCBs and lower-polarity pesticides and (2) the more polar pesticides. GC-ECD analyses of the two fractions were performed on two columns of different selectivities for PCB separations: 0.25 mm × 60 m fused silica capillary column with a 5 % phenyl-substituted methylpolysiloxane phase (0.25 μm film thickness; DB-5, J&W Scientific), and a 0.25 mm × 60 m fused silica capillary column with a non-polar proprietary phase (0.25 μm film thickness; DB-XLB, J&W Scientific). The results from the 5 % phenyl phase are designated as GC-ECD (IA) and the results from the proprietary phase are designated as GC-ECD (IB). For the GC-ECD analyses, two PCB congeners that are not significantly present in the sediment extract (PCB 103 and PCB 198 [9,10]) and endosulfan I-d_4, 4,4'-DDE-d_8, 4,4'-DD-d_8, and 4,4'-DDT-d_8 were added to the sediment prior to extraction for use as internal standards for quantification purposes.

Two sets of results were obtained by GC/MS. For GC/MS (I), approximately 9 g subsamples from six bottles were Soxhlet- extracted with a mixture of 50 % hexane/50 % acetone for approximately 18 h. Copper powder was added to the extract to remove elemental sulfur, and the concentrated extract was passed through a silica SPE cartridge and eluted with 10 % DCM in hexane. The processed extract was then analyzed by GC/MS with two ionization modes, electron impact (EI) and negative ion chemical ionization (NICI). The GC/MS EI method, GC/MS (IA), used a 0.25 mm i.d. × 60 m fused silica capillary column with a relatively non-polar proprietary phase (0.25 μm film thickness; DB-XLB, J&W Scientific). The GC/MS NICI method, GC/MS (IB), used a 0.25 mm i.d. × 60 m fused silica capillary column with a 5 % phenyl-substituted methylpolysiloxane phase (0.25 μm film thickness; DB-5MS, J&W Scientific). The GC/MS (II) results were obtained in the same manner as the GC/MS (IA) analyses except that three subsamples were Soxhlet-extracted with DCM for approximately 18 h. For the GC/MS analyses, selected carbon-13 labeled PCB congeners and chlorinated pesticides were added to the sediment prior to extraction for use as internal standards for quantification purposes.

In addition to the analyses performed at NIST, SRM 1941b was used in an interlaboratory comparison exercise in 1999 as part of the NIST Intercomparison Exercise Program for Organic Contaminants in the Marine Environment [7]. Results from 38 laboratories that participated in this exercise were used as the sixth data set in the determination of the certified values for PCB congeners and chlorinated pesticides in SRM 1941b. The laboratories participating in this exercise used the analytical procedures routinely used in their laboratories to measure the analytes of interest.

The reference value for PCB 77 was determined from a separate fraction. The samples were extracted and processed as for GC-ECD (I) above. The first (PCB and lower-polarity pesticide) fraction from the semi-preparative aminopropylsilane column was further fractionated using a Cosmosil PYE (pyrenylethyl group bonded) column (5 μm particle size, 4.6 mm i.d. × 25 cm ; Phenomenex, Torrance, CA) [11]. Three fractions were collected: the first fraction contained the pesticides and multi-*ortho* PCBs, the second fraction contained the polychlorinated naphthalenes, non-*ortho* PCB congeners, and some mono-*ortho* PCB congeners, and the third fraction removed the residual planar compounds from the column. The second fraction was analyzed by GC/MS NICI using the same column as GC/MS (IB) above. Carbon-13 labeled PCB 77 was used as an internal standard for quantification purposes.

Alkylated PAH Groups, Hopanes, and Steranes: SRM 1941b was used in an interlaboratory comparison exercise in 2011 [12]. Results from 33 laboratories that participated in this exercise were used in the determination of the reference values for alkylated PAH groups, hopanes, and steranes in SRM 1941b. Note that not all laboratories returned data for each analyte. The laboratories participating in this exercise used the analytical procedures routinely used in their laboratories to measure the analytes of interest. For the alkylated PAHs, the majority of the laboratories (>90 %) used the parent PAH for determination of the response factor for the corresponding alkylated group.

Total Organic Carbon (TOC): Two laboratories provided results for TOC using similar procedures. Briefly, subsamples of approximately 200 mg were reacted with 6 mol/L hydrochloric acid and rinsed with deionized water prior to combustion in a gas fusion furnace. The carbon monoxide and carbon dioxide produced were measured and compared to a blank for calculation of the percent TOC. Each laboratory analyzed subsamples from three bottles of SRM 1941b. One of the laboratories also analyzed three subsamples from three bottles of SRM 1941b for carbon, hydrogen, and nitrogen.

Table 1. Certified Mass Fraction Values for PAHs in SRM 1941b

PAHs	Mass Fractions[a] (µg/kg)		
Naphthalene[b,c,d,e,f,g]	848	±	95[h]
Fluorene[b,c,d,e,f,g]	85	±	15[h]
Phenanthrene[b,c,d,e,f,g]	406	±	44[h]
Anthracene[b,c,d,e,f,g]	184	±	18[h]
3-Methylphenanthrene[b,c,d]	105	±	13[h]
2-Methylphenathrene[b,c,d]	128	±	14[h]
1-Methylphenanthrene[b,c,d,g]	73.2	±	5.9[h]
Fluoranthene[b,c,d,e,f,g]	651	±	50[h]
Pyrene[b,c,d,e,f,g]	581	±	39[h]
Benz[*a*]anthracene[b,c,d,e,f,g]	335	±	25[h]
Chrysene[d,f]	291	±	31[h]
Triphenylene[d,f]	108	±	5[i]
Benzo[*b*]fluoranthene[c,e]	453	±	21[h]
Benzo[*k*]fluoranthene[b,c,d,e]	225	±	18[h]
Benzo[*e*]pyrene[b,c,d,g]	325	±	25[h]
Benzo[*a*]pyrene[b,c,d,f,g]	358	±	17[h]
Perylene[b,c,d,f,g]	397	±	45[h]
Benzo[*ghi*]perylene[b,c,d,f,g]	307	±	45[h]
Indeno[1,2,3-*cd*]pyrene[b,c,d,f,g]	341	±	57[h]
Dibenz[*a,j*]anthracene[b,c,d,f]	48.9	±	4.6[h]
Dibenz[*a,c*]anthracene[c,f]	36.7	±	5.2[h]
Dibenz[*a,h*]anthracene[c,f]	53	±	10[h]
Benzo[*b*]chrysene[b,c,d,f]	53	±	12[h]
Picene[b,c,d]	46.6	±	4.7[h]

[a] Mass fractions reported on dry-mass basis; material as received contains approximately 2.4 % moisture.
[b] GC/MS (I) on 5 % phenyl-substituted methylpolysiloxane phase after PFE with DCM.
[c] GC/MS (II) on 50 % phenyl-substituted methylpolysiloxane phase after PFE with DCM.
[d] GC/MS (III) on a relatively non-polar proprietary phase after Soxhlet extraction with 50 % hexane/50 % acetone mixture.
[e] LC-FL (total) of total PAH fraction after PFE with DCM.
[f] LC-FL (isomer) of isomeric PAH fractions after PFE with DCM.
[g] 1999 Interlaboratory Comparison Study [7] with 21 to 29 laboratories submitting data for each PAH.
[h] Certified values are weighted means of the results from two to six analytical methods [13]. The uncertainty listed with each value is an expanded uncertainty about the mean, with coverage factor 2 (approximately 95 % confidence), calculated by combining a between-method variance incorporating inter-method bias with a pooled within-method variance following the ISO/JCGM Guide [14,15]. The measurand is the total mass fraction of the constituent listed and the values are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.
[i] The certified value is an unweighted mean of the results from two analytical methods. The uncertainty listed with the value is an expanded uncertainty about the mean, with coverage factor 2, calculated by combining a between-method variance [16] with a pooled, within-method variance following the ISO/JCGM Guide [14,15]. The measurand is the total mass fraction of the constituent listed and the value is metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.

Table 2. Certified Mass Fraction Values for PCB Congeners[a] in SRM 1941b

PCB Congeners			Mass Fractions[b] (µg/kg)		
PCB	8	(2,4'-Dichlorobiphenyl)[c,d,e,f,g]	1.65	±	0.19[h]
PCB	18	(2,2',5-Trichlorobiphenyl)[c,d,e,f,g]	2.39	±	0.29[h]
PCB	28	(2,4,4'-Trichlorobiphenyl)[c,d,e,f,g]	4.52	±	0.57[h]
PCB	31	(2,4',5-Trichlorobiphenyl)[c,e,f]	3.18	±	0.41[h]
PCB	44	(2,2'3,5'-Tetrachlorobiphenyl)[c,d,e,f,g]	3.85	±	0.20[i]
PCB	49	(2,2'4,5'-Tetrachlorobiphenyl)[c,d,e,f]	4.34	±	0.28[i]
PCB	52	(2,2',5,5'-Tetrachlorobiphenyl)[c,d,e,f,g]	5.24	±	0.28[i]
PCB	66	(2,3',4,4'-Tetrachlorobiphenyl)[c,e,f,g,j]	4.96	±	0.53[i]
PCB	87	(2,2',3,4,5'-Pentachlorobiphenyl)[c,d,f,j]	1.14	±	0.16[h]
PCB	95	(2,2',3,5',6-Pentachlorobiphenyl)[c,e,f,g]	3.93	±	0.62[i]
PCB	99	(2,2',4,4',5-Pentachlorobiphenyl)[c,d,e,f,g]	2.90	±	0.36[i]
PCB	101	(2,2',4,5,5'-Pentachlorobiphenyl)[c,e,f,g,j]	5.11	±	0.34[i]
PCB	105	(2,3,3',4,4'-Pentachlorobiphenyl)[c,d,e,f,g,j]	1.43	±	0.10[i]
PCB	110	(2,3,3',4',6-Pentachlorobiphenyl)[c,e,f,j]	4.62	±	0.36[i]
PCB	118	(2,3',4,4',5-Pentachlorobiphenyl)[c,d,e,f,g,j]	4.23	±	0.19[i]
PCB	128	(2,2',3,3',4,4'-Hexachlorobiphenyl)[c,d,e,f,g,j]	0.696	±	0.044[i]
PCB	138	(2,2',3,4,4',5'-Hexachlorobiphenyl)[c,e,f,j]	3.60	±	0.28[i]
PCB	149	(2,2',3,4',5',6-Hexachlorobiphenyl)[c,d,e,j]	4.35	±	0.26[h]
PCB	153	(2,2',4,4',5,5'-Hexachlorobiphenyl)[c,d,e,f,g,j]	5.47	±	0.32[i]
PCB	156	(2,3,3',4,4',5-Hexachlorobiphenyl)[c,d,e,f,j]	0.507	±	0.090[h]
PCB	170	(2,2',3,3',4,4',5-Heptachlorobiphenyl)[c,d,e,f,g,j]	1.35	±	0.09[i]
PCB	180	(2,2',3,4,4',5,5'-Heptachlorobiphenyl)[c,d,e,f,g,j]	3.24	±	0.51[i]
PCB	183	(2,2',3,4,4',5',6-Heptachlorobiphenyl)[c,d,e,j]	0.979	±	0.087[h]
PCB	187	(2,2',3,4',5,5',6-Heptachlorobiphenyl)[c,d,e,f,g,j]	2.17	±	0.22[i]
PCB	194	(2,2',3,3',4,4',5,5'-Octachlorobiphenyl)[c,d,e,j]	1.04	±	0.06[h]
PCB	195	(2,2',3,3',4,4',5,6-Octachlorbiphenyl)[c,e,g,j]	0.645	±	0.060[i]
PCB	201	(2,2',3,3',4,5',6,6'-Octachlorobiphenyl)[c,e,j]	0.777	±	0.034[h]
PCB	206	(2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl)[c,e,f,g,j]	2.42	±	0.19[i]
PCB	209	Decachlorobiphenyl[c,d,e,f,g,j]	4.86	±	0.45[i]

[a] PCB congeners are numbered according to the scheme proposed by Ballschmiter and Zell [9] and later revised by Schulte and Malisch [10] to conform to IUPAC rules, except PCB 201. Under the Ballschmiter and Zell numbering system, the IUPAC PCB 201 is listed as PCB 200.

[b] Mass fractions reported on dry-mass basis; material as received contains approximately 2.4 % moisture.

[c] GC/MS (IA) on a relatively non-polar proprietary phase after Soxhlet extraction with 50 % hexane/50 % acetone mixture.

[d] GC-ECD (IA) on 5 % phenyl-substituted methylpolysiloxane phase after PFE extraction with DCM.

[e] GC-ECD (IB) on a relatively non-polar proprietary phase; same extracts analyzed as in GC-ECD (IA).

[f] GC/MS (II) on a relatively non-polar proprietary phase after Soxhlet extraction with DCM.

[g] 1999 Interlaboratory Comparison Study [7] with 13 to 31 laboratories submitting data for each PCB congener.

[h] Certified values are unweighted means of the results from three to five analytical methods. The uncertainty listed with each value is an expanded uncertainty about the mean, with coverage factor 2, calculated by combining a between-method variance [16] with a pooled, within method variance following the ISO/JCGM Guide [14,15]. The measurand is the total mass fraction of the constituent listed and the values are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.

[i] Certified values are weighted means of the results from three to six analytical methods [13]. The uncertainty listed with each value is an expanded uncertainty about the mean, with coverage factor 2 (approximately 95 % confidence), calculated by combining a between-method variance incorporating inter-method bias with a pooled within-method variance following the ISO/JCGM Guide [14,15]. The measurand is the total mass fraction of the constituent listed and the values are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.

[j] GC/MS (IB) on 5 % phenyl-substituted methylpolysiloxane phase; same extracts analyzed as in GC/MS (IA).

Table 3. Certified Mass Fraction Values for Chlorinated Pesticides in SRM 1941b

Chlorinated Pesticides	Mass Fractions[a] (µg/kg)
Hexachlorobenzene[b,c,d,e]	5.83 ± 0.38[f]
cis-Chlordane[b,c,d,e,g]	0.85 ± 0.11[h]
trans-Chlordane[b,c,e]	0.566 ± 0.093[f]
cis-Nonachlor[b,e,g]	0.378 ± 0.053[h]
trans-Nonachlor[b,c,d,e,g]	0.438 ± 0.073[f]
4,4'-DDE[b,d,e,g]	3.22 ± 0.28[h]
4,4'-DDD[b,d,e,g]	4.66 ± 0.46[h]

[a] Mass fractions reported on dry-mass basis; material as received contains approximately 2.4 % moisture.
[b] GC/MS (IA) on a relatively non-polar proprietary phase after Soxhlet extraction with 50 % hexane/50 % acetone mixture.
[c] GC/MS (IB) on 5 % phenyl-substituted methylpolysiloxane phase; same extracts analyzed as in GC/MS (IA).
[d] GC/MS (II) on a relatively non-polar proprietary phase after Soxhlet extraction with DCM.
[e] 1999 Interlaboratory Comparison Study [7] with 13 to 31 laboratories submitting data for each pesticide.
[f] Certified values are unweighted means of the results from three to five analytical methods. The uncertainty listed with each value is an expanded uncertainty about the mean, with coverage factor 2, calculated by combining a between-method variance [16] with a pooled, within-method variance following the ISO/JCGM Guide [14,15]. The measurand is the total mass fraction of the constituent listed and the values are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.
[g] GC-ECD (IA) on 5 % phenyl-substituted methylpolysiloxane phase after PFE extraction with DCM.
[h] Certified values are weighted means of the results from three to five analytical methods [13]. The uncertainty listed with each value is an expanded uncertainty about the mean, with coverage factor 2 (approximately 95 % confidence), calculated by combining a between-method variance incorporating inter-method bias with a pooled within-method variance following the ISO/JCGM Guide [14,15]. The measurand is the total mass fraction of the chlorinated pesticides listed and the values listed are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.

Table 4. Reference Mass Fraction Values for PAHs in SRM 1941b

PAHs	Mass Fractions[a] (µg/kg)		
1-Methylnaphthalene[b,c,d,e]	127	±	14[f]
2-Methylnaphthalene[b,c,d,e]	276	±	53[f]
2,6-Dimethylnaphthalene[b,c,d,e]	75.9	±	4.5[f]
2,3,5-Trimethylnaphthalene[b,c,d,e]	25.5	±	5.1[f]
Biphenyl[b,c,d,e]	74.0	±	8.0[f]
Acenaphthylene[b,c,d,e]	53.3	±	6.4[f]
Acenaphthene[b,c,d,e]	38.4	±	5.2[f]
9-Methylphenanthrene[c]	63.5	±	2.5[g]
4-Methylphenanthrene and 9-Methylphenanthrene[b,d]	80.1	±	4.8[f]
2-Methylanthracene[c,d]	36	±	15[f]
8-Methylfluoranthene[b]	49.5	±	2.7[g]
7-Methylfluoranthene[b]	45.4	±	1.5[g]
1-Methylfluoranthene[b]	42.4	±	2.1[g]
3-Methylfluoranthene[b]	28.8	±	1.3[g]
2-Methylpyrene[b]	78.7	±	4.0[g]
4-Methylpyrene[b]	66.4	±	2.6[g]
1-Methylpyrene[b]	52.5	±	2.3[g]
Acephenanthrene[d]	30.5	±	1.9[g]
Benzo[*c*]phenanthrene[b,c,d]	58	±	15[f]
Benzo[*a*]fluoranthene[b,c,d]	73	±	18[f]
Benzo[*j*]fluoranthene[c]	217	±	5[g]
Indeno[1,2,3-*cd*]fluoranthene[d]	9.63	±	0.34[g]
Pentaphene[d]	25.3	±	1.0[g]

[a] Mass fractions reported on dry-mass basis; material as received contains approximately 2.4 % moisture.

[b] GC/MS (I) on 5 % phenyl-substituted methylpolysiloxane phase after PFE with DCM.

[c] GC/MS (II) on 50 % phenyl-substituted methylpolysiloxane phase after PFE with DCM.

[d] GC/MS (III) on a relatively non-polar proprietary phase after Soxhlet extraction with 50 % hexane/50 % acetone mixture.

[e] 1999 Interlaboratory Comparison Study [7] with 14 to 26 laboratories submitting data for each PAH.

[f] Reference values are weighted means of the results from two to four analytical methods [13]. The uncertainty listed with each value is an expanded uncertainty about the mean, with coverage factor 2 (approximately 95 % confidence), calculated by combining a between-method variance incorporating inter-method bias with a pooled within-method variance following the ISO/JCGM Guide [14,15]. The measurand is the total mass fraction of PAHs listed as determined by the methods indicted. The values are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.

[g] Reference values are the means of results obtained by NIST using one analytical technique. The expanded uncertainty, U, is calculated as $U = ku_c$, where u_c is one standard deviation of the analyte mean, and the coverage factor, k, is determined from the Student's t-distribution for the associated degrees of freedom (19 for footnote b and 5 for footnotes c and d) and 95 % confidence level for each analyte. The measurand is the total mass fraction of the PAHs listed as determined by the method indicted. The values listed are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.

Table 5. Reference Mass Fraction Values for PAHs of Molecular Mass 300 and 302 in SRM 1941b

PAHs of Molecular Mass 300 and 302	Mass Fractions[a,b,c] (µg/kg)		
Coronene	72.6	±	4.7
Dibenzo[*b,e*]fluoranthene	10.3	±	0.3
Naphtho[1,2-*b*]fluoranthene	91.0	±	3.1
Naphtho[1,2-*k*]fluoranthene and Naphtho[2,3-*j*]fluoranthene	79.8	±	2.5
Naphtho[2,3-*b*]fluoranthene	23.5	±	0.3
Dibenzo[*b,k*]fluoranthene	95.6	±	3.1
Dibenzo[*a,k*]fluoranthene	26.6	±	0.4
Dibenzo[*j,l*]fluoranthene	63.8	±	1.8
Dibenzo[*a,l*]pyrene	11.1	±	1.0
Naphtho[2,3-*k*]fluoranthene	10.7	±	0.6
Naphtho[1,2-*a*]pyrene	16.7	±	1.4
Naphtho[2,3-*e*]pyrene	33.2	±	2.3
Dibenzo[*a,e*]pyrene	76.1	±	3.6
Naphtho[2,1-*a*]pyrene	59.2	±	1.8
Dibenzo[*e,i*]pyrene	35.0	±	2.4
Naphtho[2,3-*a*]pyrene	16.5	±	0.6
Benzo[*b*]perylene	38.2	±	1.2
Dibenzo[*a,i*]pyrene	25.5	±	1.0
Dibenzo[*a,h*]pyrene	6.94	±	0.29

[a] Mass fractions reported on dry-mass basis; material as received contains approximately 2.4 % moisture.

[b] Reference values are the means of results obtained by NIST using one analytical technique. The expanded uncertainty, U, is calculated as $U = ku_c$, where u_c is one standard deviation of the analyte mean, and the coverage factor, k, is determined from the Student's t-distribution for two degrees of freedom and 95 % confidence level for each analyte. The measurand is the total mass fraction of the constituent listed as determined by the method indicted. The values are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.

[c] GC/MS on 50 % phenyl-substituted methylpolysiloxane phase after PFE with DCM [8].

Table 6. Reference Mass Fraction Values for PCB Congeners[a] in SRM 1941b

PCB Congeners			Mass Fractions[b,c] (µg/kg)		
PCB	45	(2,2',3,6-Tetrachlorobiphenyl)[d,e]	0.73	±	0.12
PCB	56	(2,3,3',4'-Tetrachlorobiphenyl)[d,f,g]	1.21	±	0.11
PCB	63	(2,3,4',5-Tetrachlorobiphenyl)[e,f,g]	0.213	±	0.040
PCB	70	(2,3',4',5-Tetrachlorobiphenyl)[e,f,g]	4.99	±	0.29
PCB	74	(2,4,4',5-Tetrachlorobiphenyl)[e,f,g]	2.04	±	0.15
PCB	77	(3,3',4,4'-Tetrachlorobiphenyl)[h]	0.31	±	0.03
PCB	107	(2,3,3',4',5-Pentachlorobiphenyl)[d,e,f,g]	0.628	±	0.028
PCB	132	(2,2',3,3',4,6'-Hexachlorobiphenyl)[d,f,g]	1.28	±	0.27
PCB	146	(2,2',3,4',5,5'-Hexachlorobiphenyl)[e,f,g]	1.22	±	0.12
PCB	158	(2,3,3',4,4',6-Hexachlorobiphenyl)[d,e,f,g]	0.65	±	0.15
PCB	163	(2,3,3',4',5,6-Hexachlorobiphenyl)[e,f,g]	1.28	±	0.06
PCB	174	(2,2',3,3',4,5,6'-Heptachlorobiphenyl)[d,e,f,g]	1.51	±	0.39
PCB	193	(2,3,3',4',5,5',6-Heptachlorobiphenyl)[d,e,f,g]	0.292	±	0.075

[a] PCB congeners are numbered according to the scheme proposed by Ballschmiter and Zell [9] and later revised by Schulte and Malisch [10] to conform with IUPAC rules, except PCB 107. Under the Ballschmiter and Zell numbering system, the IUPAC PCB 107 is listed as PCB 108.

[b] Mass fractions reported on dry-mass basis; material as received contains approximately 2.4 % moisture.

[c] For these PCB congeners except PCB 77, the reference values are unweighted means of the results from two to four analytical methods. The uncertainty listed with each value is an expanded uncertainty about the mean, with coverage factor 2, calculated by combining a between-method variance [16] with a pooled within-method variance following the ISO/JCGM Guide [14,15]. For PCB 77, the reference value is the mean of results obtained by NIST using one analytical technique. The expanded uncertainty, U, is calculated as $U = ku_c$, where u_c is one standard deviation of the analyte mean, and the coverage factor, k, is determined from the Student's t-distribution corresponding to two degrees of freedom and 95 % confidence level for PCB 77. The measurand is the total mass fraction of the PCB Congeners listed as determined by the method or methods indicted. The values listed are metrologically traceable to the SI unit of mass, expressed as microgram per kilogram on a dry-mass basis.

[d] GC-ECD (IA) on 5 % phenyl-substituted methylpolysiloxane phase after PFE extraction with DCM.

[e] GC-ECD (IB) on a relatively non-polar proprietary phase; same extracts analyzed as in GC-ECD (IA).

[f] GC/MS (IA) on a relatively non-polar proprietary phase after Soxhlet extraction with 50 % hexane/50 % acetone mixture.

[g] GC/MS (IB) on 5 % phenyl-substituted methylpolysiloxane phase; same extracts analyzed as in GC/MS (IA).

[h] GC/MS NICI on a 5 % phenyl-substituted methylpolysiloxane phase; same extracts analyzed as in GC-ECD (I) fractionated using a PYE column.

Table 7. Reference Mass Fraction Values for Selected Chlorinated Pesticides in SRM 1941b

Chlorinated Pesticides	Mass Fractions[a,b] (µg/kg)		
2,4'-DDE[c,d]	0.38	±	0.12
4,4'-DDT[e,f]	1.12	±	0.42

[a] Mass Fractions reported on dry-mass basis; material as received contains approximately 2.4 % moisture.
[b] The reference values are unweighted means of the results from two analytical methods. The uncertainty listed with each value is an expanded uncertainty about the mean, with coverage factor 2, calculated by combining a between-method variance [16] with a pooled, within-method variance following the ISO/JCGM Guide [14,15]. The measurand is the total mass fraction of the chlorinated pesticides listed as determined by the methods indicted. The values listed are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.
[c] GC/MS (IB) on 5 % phenyl-substituted methylpolysiloxane phase; same extracts analyzed as in GC/MS (IA).
[d] GC-ECD (IB) on a relatively non-polar proprietary phase; same extracts analyzed as in GC-ECD (IA).
[e] GC/MS (II) on a relatively non-polar proprietary phase after Soxhlet extraction with DCM.
[f] 1999 Interlaboratory Comparison Study [7] with 10 laboratories submitting data for 4,4'-DDT.

Table 8. Reference Mass Fraction Values for Alkylated PAH Groups in SRM 1941b

Alkylated PAH Group	Mass Fraction[a,b] (µg/kg)		
C2-decalins	18	±	5
C4-decalins	41	±	4
C2-naphthalenes	187	±	53
C3-naphthalenes	158	±	42
C1-benzothiophenes	25	±	14
C2-benzothiophenes	20	±	11
C3-benzothiophenes	22	±	13
C4-benzothiophenes	18	±	5
C1-fluorenes	57	±	18
C2-fluorenes	122	±	43
C3-fluorenes	128	±	31
C1-phenanthrenes/anthracenes	313	±	99
C2-phenanthrenes/anthracenes	247	±	62
C3-phenanthrenes/anthracenes	165	±	46
C4-phenanthrenes/anthracenes	87	±	36
C1-dibenzothiophenes	54	±	13
C2-dibenzothiophenes	91	±	18
C3-dibenzothiophenes	84	±	15
C4-dibenzothiophenes	57	±	13
C1-fluoranthenes/pyrenes	252	±	48
C2-fluoranthenes/pyrenes	205	±	38
C3-fluoranthenes/pyrenes	102	±	22
C4-fluoranthenes/pyrenes	121	±	59
C1-benzanthraces/chrysenes/triphenylenes	208	±	43
C2-benzanthraces/chrysenes/triphenylenes	120	±	24
C3-benzanthraces/chrysenes/triphenylenes	73	±	31
C4-benzanthraces/chrysenes/triphenylenes	41	±	11

[a] The reference mass fraction value reported on a dry-mass basis is the median of results using one analytical technique. The expanded uncertainty, U, is calculated as $U = ku_c$, where u_c is one standard deviation of the median, and the coverage factor, $k = 2$. The measurand is the total mass fraction of the alkylated PAH groups listed as determined by the interlaboratory study methods. The values listed are metrologically traceable to the SI unit of mass fraction, expressed as micrograms per kilogram on a dry-mass basis.
[b] Data from the interlaboratory study [12].

Table 9. Reference Mass Fraction Values for Hopanes and Steranes in SRM 1941b

Hopane or Sterane	Mass Fraction[a,b] (µg/kg)
17α(H)-22,29,30-Trisnorhopane	54 ± 18
17α(H)-21β(H)-30-Norhopane	137 ± 21
17α(H)-21β(H)-30-Hopane	215 ± 44
17α(H)-21β(H)-22R-Homohopane	44 ± 10
17α(H)-21β(H)-22S-Homohopane	48 ± 13
5α(H)-14α(H),17α(H)-Cholestane 20R	41 ± 11
5α(H)-14β(H),17β(H)-Cholestane 20R	27 ± 6
5α(H)-14β(H),17β(H)-24-Methylcholestane 20R	21 ± 8
5α(H)-14α(H),17α(H)-24-Ethylcholestane 20R	19 ± 5
5α(H)-14β(H),17β(H)-24-Ethylcholestane 20R	41 ± 9

[a] The reference mass fraction value reported on a dry-mass basis is the median of results using one analytical technique. The expanded uncertainty, U, is calculated as $U = ku_c$, where u_c is one standard deviation of the median, and the coverage factor, $k = 2$. The measurand is the total mass fraction of the constituent listed as determined by the methods used during the interlaboratory study. The values are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.
[b] Data from the interlaboratory study [12].

Table 10. Reference Mass Fraction Value for Total Organic Carbon in SRM 1941b

Total Organic Carbon (TOC)	2.99 % ± 0.24 %[a,b]

[a] Mass fraction is reported on a dry-mass basis; material as received contains approximately 2.4 % moisture.
[b] The reference value for total organic carbon is a weighted mean value from routine measurements made by two laboratories [21]. The uncertainty listed is an expanded uncertainty about the mean, with coverage factor 2 (approximately 95 % confidence), calculated by combining a between-method variance incorporating inter-method bias with a pooled within-method variance. The reporting follows the ISO/JCGM Guides [2]. The measurand is the total mass fraction of TOC listed as determined by the methods indicted. The values listed are metrologically traceable to the SI unit of mass, expressed as a percent on a dry-mass basis.

Table 11. Information Mass Fraction Values for Carbon, Hydrogen, and Nitrogen in SRM 1941b

Elements	Mass Fractions[a] (%)
Carbon	3.3
Hydrogen	1.2
Nitrogen	<0.5

[a] Mass fraction is reported on a dry-mass basis; material as received contains approximately 2.4 % moisture.

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Certificate Revision History: 16 January 2015 (Corrected IUPAC name for PCB-56 and PCB-107; editorial changes); 10 June 2014 (Units corrected from mg/kg to µg/kg in Tables 8 and 9; editorial changes); 10 April 2012 (Reference value added for alkylated PAH groups, hopanes, and steranes; extension of certification period; editorial changes); 16 August 2004 (Reference values for the butyl tins removed; editorial changes); 15 July 2002 (Original certificate date).

Users of this SRM should ensure that the Certificate of Analysis in their possession is current. This can be accomplished by contacting the SRM Program: telephone (301) 975-2200; fax (301) 948-3730; e-mail srminfo@nist.gov; or via the Internet at http://www.nist.gov/srm.

APPENDIX A

The laboratories listed below performed measurements that contributed to the certification of PAHs, PCBs, and chlorinated pesticides in SRM 1941b Organics in Marine Sediment.

Arthur D. Little, Inc; Cambridge, MA
Axys Analytical Services; Sidney, BC, Canada
B & B Laboratories; College Station, TX
Battelle Ocean Sciences; Duxbury, MA
Bedford Institute of Oceanography; Dartmouth, NS, Canada
California Department of Fish and Game; Rancho Cordova, CA
Central Contra Costa Sanitary District; Martinez, CA
Chesapeake Biological Laboratory; Solomons, MD
Centro de Investigacionies Energeticas Medioambientales y Tecnologicas; Madrid, Spain
City of Los Angeles Environmental Monitoring Division; Playa del Rey, CA
City of San Jose Environmental Services Department; San Jose, CA
Columbia Analytical Services; Kelso, WA
East Bay Municipal Utility District; Oakland, CA
Florida Department of Environmental Protection; Tallahassee, FL
Manchester Environmental Laboratory; Port Orchard, WA
Murray State University; Murray, KY
Massachusetts Water Resources Authority Central Lab; Winthrop, MA
National Research Council of Canada; Ottawa, Ontario, Canada
National Oceanic and Atmospheric Association (NOAA), National Marine Fisheries Service (NMFS), Auke Bay Laboratory; Juneau, AK
NOAA, National Ocean Service/Center for Coastal Environmental Health and Biomolecular Research; Charleston, SC
NOAA, NMFS, Sandy Hook Marine Laboratory; Highlands, NJ
NOAA, NMFS, Northwest Fisheries Science Center; Seattle, WA
Orange County Sanitation District; Fountain Valley, CA
Philip Analytical Services; Burlington, Ontario, Canada
Serv de Hidrografia Naval; Buenos Aires, Argentina
Skidaway Institute of Technology; Savannah, GA
Southwest Laboratory of Oklahoma; Broken Arrow, OK
Severn Trent Knoxville Laboratory; Knoxville, TN
Texas A&M University, Geochemical and Environmental Research Group; College Station, TX
Texas Parks and Wildlife Department; San Marcos, TX
University of California at Los Angeles, Institute of Geophysics and Planetary Physics; Los Angeles, CA
University of Connecticut, Environmental Research Institute; Storrs, CT
University of Rhode Island, Graduate School of Oceanography; Narragansett, RI
US Department of Agriculture, Environmental Chemistry Laboratory; Beltsville, MD
US Environmental Protection Agency, Atlantic Ecology Division; Narragansett, RI
US Geological Survey, National Water Quality Laboratory; Denver, CO
Woods Hole Group Environmental Lab; Raynham, MA
Wright State University; Dayton, OH

APPENDIX B

The laboratories listed below performed measurements that contributed to the certification of alkylated PAH groups, hopanes, and steranes in SRM 1941b Organics in Marine Sediment.

Alpha Analytical, Inc.; Mansfield, MA
Analytical Resources, Inc.; Tukwila, WA
Axys Analytical Services; Sydney, BC, Canada
Battelle Analytical & Environmental Chemistry Laboratory; Duxbury, MA
Center for Laboratory Sciences; Pasco, WA
Columbia Analytical Services; Jacksonville, FL
Columbia Analytical Services; Rochester, NY
Columbia Analytical Services, Kelso, WA
Florida Department of Environmental Protection; Tallahassee, FL
Florida International University; North Miami, FL
Michigan Department of Natural Resources and Environment; Lansing, MI
Mississippi State Chemical Laboratory; Mississippi State, MS
NIST; Charleston, SC
NIST; Gaithersburg, MD
NOAA/NCCOS/NOS; Charleston, SC
NOAA/NMFS/Alaska Fisheries Science Center; Juneau, AK
NY State Department of Health; Albany, NY
Pace Analytical Services, Inc. Minneapolis; Minneapolis, MN
RJ Lee Group, Inc; Monroeville, PA
TDI/B&B Laboratories, Inc.; College Station, TX
TestAmerica Laboratories; Mobile, AL
TestAmerica Laboratories; West Sacramento, CA
TestAmerica Laboratories; University Park, IL
TestAmerica Laboratories; Schriever, LA
TestAmerica Laboratories; Edison, NJ
TestAmerica Laboratories; Knoxville, TN
TestAmerica Laboratories; Pittsburgh, PA
TestAmerica Laboratories; South Burlington, VT
TestAmerica Laboratories; Tacoma, WA
US Army Engineer Research and Development Center; Vicksburg, MS
USGS Columbia Environmental Research Center; Columbia, MO
University of Iowa, State Hygienic Laboratory; Iowa City, IO
Washington State Public Health Laboratories; Shoreline, WA

NIST

Date of Issue:
31 March 2014

SAFETY DATA SHEET

1. Substance and Source Identification

Product Identifier

SRM Number: 1941b
SRM Name: Organics in Marine Sediment
Other Means of Identification: Not applicable.

Recommended Use of This Material and Restrictions of Use

This Standard Reference Material (SRM) is marine sediment collected at the mouth of the Baltimore (MD) Harbor. SRM 1941b is intended for use in evaluating analytical methods for the determination of selected polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyl (PCB) congeners, and chlorinated pesticides in marine sediment and similar matrices. All of the constituents for which certified, reference, and information values are provided in SRM 1941b were naturally present in the sediment before processing. A unit of SRM 1941b consists of a bottle containing 50 g of radiation-sterilized, freeze-dried sediment.

Company Information

National Institute of Standards and Technology
Standard Reference Materials Program
100 Bureau Drive, Stop 2300
Gaithersburg, Maryland 20899-2300

Telephone: 301-975-2200
FAX: 301-948-3730
E-mail: SRMMSDS@nist.gov
Website: http://www.nist.gov/srm

Emergency Telephone ChemTrec:
1-800-424-9300 (North America)
+1-703-527-3887 (International)

2. Hazards Identification

Classification

Physical Hazard: Not classified.
Health Hazard: Not classified.

Label Elements
Symbol
No Symbol/Pictogram

Signal Word
Not applicable.

Hazard Statement(s): Not applicable.

Precautionary Statement(s): Not applicable.

Hazards Not Otherwise Classified: Not applicable.

Ingredients(s) with Unknown Acute Toxicity: Not applicable.

3. Composition and Information on Hazardous Ingredients

Substance: Marine sediment

Other Designations: Sediment.

This material is naturally occurring marine sediment from an urban area. The material contains trace amounts of polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyl (PCB) congeners, and should be handled with care. Components are listed in compliance with OSHA's 29 CFR 1910.1200; for the actual values see the Certificate of Analysis.

Hazardous Component(s)	CAS Number	EC Number (EINECS)	Nominal Mass Concentration (%)
Marine Sediment	Not available	Not available	100

4. First Aid Measures

Description of First Aid Measures:

Inhalation: If adverse effects occur, remove to uncontaminated area. If not breathing, give artificial respiration or oxygen by qualified personnel. Seek immediate medical attention.

Skin Contact: Wash skin with soap and water.

Eye Contact: Flush eyes with water for at least 15 minutes. If necessary, seek medical attention.

Ingestion: If adverse effects occur after ingestion, seek medical treatment.

Most Important Symptoms/Effects, Acute and Delayed: May cause irritation.

Indication of any immediate medical attention and special treatment needed, if necessary: If any of the above symptoms are present, seek medical attention if needed.

5. Fire Fighting Measures

Fire and Explosion Hazards: Negligible fire hazard. Avoid generating dust. See Section 9, "Physical and Chemical Properties" for flammability properties.

Extinguishing Media:
Suitable: Use extinguishing media appropriate for surrounding fire.
Unsuitable: None listed.

Specific Hazards Arising from the Chemical: None listed.

Special Protective Equipment and Precautions for Fire-Fighters: Avoid inhalation of material or combustion byproducts. Wear full protective clothing and NIOSH approved self-contained breathing apparatus (SCBA).

NFPA Ratings (0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe)

Health = 1 Fire = 0 Reactivity = 0

6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures: Any accumulated material on surfaces should be removed and properly disposed of. Use suitable protective equipment; see Section 8, "Exposure Controls and Personal Protection".

Methods and Materials for Containment and Clean up: Collect spilled material in appropriate container for disposal. Keep out of water supplies and sewers. Keep unnecessary people away, isolate hazard area and deny entry.

7. Handling and Storage

Safe Handling Precautions: Minimize dust generation and accumulation on surfaces. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. See Section 8, "Exposure Controls and Personal Protection".

Storage: Store and handling in accordance with all current regulations and standards.

8. Exposure Controls and Personal Protection

Exposure Limits: No occupational exposure limits have been established for marine sediment. This material is a particulate matter and adequate inhalation/respiratory protection should be used to minimize exposure. The exposure limits for Particulates Not Otherwise Regulated (PNOR) are applicable.

OSHA (PEL): 15 mg/m^3 (TWA, total particulates not otherwise regulated)
OSHA (PEL) 5 mg/m^3 (TWA, respirable particulates not otherwise regulated)

NIOSH (REL): 10 mg/m^3 (TWA, total particulates not otherwise regulated, 8 h)
NIOSH (REL): 5 mg/m^3 (TWA, respirable particulates not otherwise regulated)

Engineering Controls: Provide local exhaust or process enclosure ventilation system. Ensure compliance with applicable exposure limits.

Personal Protection: In accordance with OSHA 29 CFR 1910.132, subpart I, wear appropriate Personal Protective Equipment (PPE) to minimize exposure to this material.

Respiratory Protection: If workplace conditions warrant a respirator, a respiratory protection program that meets OSHA 29CFR 1910.134 must be followed. Refer to NIOSH 42 CFR 84 for applicable certified respirators.

Eye/Face Protection: Wear splash resistant safety goggles with a face shield. An eye wash station should be readily available near areas of use.

Skin and Body Protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Chemical-resistant gloves should be worn at all times when handling chemicals.

9. PHYSICAL AND CHEMICAL PROPERTIES

Descriptive Properties:

Appearance (physical state, color, etc.):	amorphous powder
Molecular Formula:	not applicable
Molar Mass (g/mol):	not applicable
Odor:	not available
Odor threshold:	not available
pH:	not available
Evaporation rate:	not applicable
Melting point/freezing point (°C):	not available
Specific Gravity (water=1)	not available
Vapor Pressure (mmHg):	not applicable
Vapor Density (air = 1):	not applicable
Viscosity (cP):	not applicable
Solubility(ies):	not available
Partition coefficient (n-octanol/water):	not available
Particle Size:	<150 µm

Thermal Stability Properties:

Autoignition Temperature (°C):	not available
Thermal Decomposition (°C):	not available
Initial boiling point and boiling range (°C):	not available
Explosive Limits, LEL (Volume %):	not available
Explosive Limits, UEL (Volume %):	not available
Flash Point (°C):	not available
Flammability (solid, gas):	not available

10. STABILITY AND REACTIVITY

Reactivity: Stable at normal temperatures and pressure.

Stability: X Stable _____ Unstable

Possible Hazardous Reactions: None listed.

Conditions to Avoid: Avoid generating dust.

Incompatible Materials: None listed.

Fire/Explosion Information: See Section 5, "Fire Fighting Measures".

Hazardous Decomposition: Thermal decomposition will produce oxides of carbon.

Hazardous Polymerization: _____ Will Occur X Will Not Occur

11. TOXICOLOGICAL INFORMATION

Route of Exposure: __X__ Inhalation __X__ Skin _____ Ingestion

Symptoms Related to the Physical, Chemical and Toxicological Characteristics: Generated dust may cause irritation if inhaled.

Potential Health Effects (Acute, Chronic and Delayed):

Inhalation: Generated dust may cause irritation.

Skin Contact: May cause mechanical irritation.

Eye Contact: May cause mechanical irritation.

Ingestion: No data available.

Numerical Measures of Toxicity:

Acute Toxicity: Not classified; no data available.

Skin Corrosion/Irritation: Not classified; no data available.

Serious Eye damage/ Eye irritation: Not classified; no data available.

Respiratory Sensitization: Not classified; no data available.

Skin Sensitization: Not classified; no data available.

Germ Cell Mutagenicity: Not classified; no data available.

Carcinogenicity: Not classified.

Listed as a Carcinogen/Potential Carcinogen _____ Yes __X__ No
Marine sediment is not listed by NTP, IARC or OSHA as a carcinogen.

Reproductive Toxicity: Not classified; no data available.

Specific Target Organ Toxicity, Single Exposure: Not classified; no data available.

Specific Target Organ Toxicity, Repeated Exposure: Not classified; no data available.

Aspiration Hazard: Not classified; no data available.

12. ECOLOGICAL INFORMATION

Ecotoxicity Data: No data available.

Persistence and Degradability: No data available.

Bioaccumulative Potential: No data available.

Mobility in Soil: No data available.

Other Adverse effects: No data available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose of waste in accordance with all applicable federal, state, and local regulations.

14. TRANSPORTATION INFORMATION

U.S. DOT and IATA: Not regulated by DOT or IATA.

15. REGULATORY INFORMATION

U.S. Regulations:

CERCLA Sections 102a/103 (40 CFR 302.4): Not regulated.

SARA Title III Section 302 (40 CFR 355.30): Not regulated.

SARA Title III Section 304 (40 CFR 355.40): Not regulated.

SARA Title III Sections 311/312 Hazardous Categories (40 CFR 370.21):

ACUTE HEALTH:	No.
CHRONIC HEALTH:	No.
FIRE:	No.
REACTIVE:	No.
PRESSURE:	No.

State Regulations:
California Proposition 65: Not listed.

U.S. TSCA Inventory: Not listed.

TSCA 12(b), Export Notification: Not listed.

Canadian Regulations:
WHMIS Information: Not provided for this material.

16. OTHER INFORMATION

Issue Date: 31 March 2014

Sources: 29 CFR Occupational Health and Safety Office (OSHA) 1910.1000, *Limits for Air Contaminants*, Table Z-1; available at http://www.osha.gov/pls/oshaweb/owadisp.show_document?p_table=STANDARDS&p_id=9992 (accessed Mar 2014).

Center for Disease Control (CDC) NIOSH Pocket Guide to Chemical Hazards, *Particulates not otherwise regulated*; available at http://www.cdc.gov/niosh/npg/npgd0480.html (accessed Mar 2014).

Key of Acronyms:

ACGIH	American Conference of Governmental Industrial Hygienists	NRC	Nuclear Regulatory Commission
ALI	Annual Limit on Intake	NTP	National Toxicology Program
CAS	Chemical Abstracts Service	OSHA	Occupational Safety and Health Administration
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	PEL	Permissible Exposure Limit
CFR	Code of Federal Regulations	RCRA	Resource Conservation and Recovery Act
DOT	Department of Transportation	REL	Recommended Exposure Limit
EC50	Effective Concentration, 50 %	RM	Reference Material
EINECS	European Inventory of Existing Commercial Chemical Substances	RQ	Reportable Quantity
EPCRA	Emergency Planning and Community Right-to-Know Act	RTECS	Registry of Toxic Effects of Chemical Substances
IARC	International Agency for Research on Cancer	SARA	Superfund Amendments and Reauthorization Act
IATA	International Air Transportation Agency	SCBA	Self-Contained Breathing Apparatus
IDLH	Immediately Dangerous to Life and Health	SRM	Standard Reference Material
LC50	Lethal Concentration, 50 %	STEL	Short Term Exposure Limit
LD50	Lethal Dose, 50 %	TLV	Threshold Limit Value
LEL	Lower Explosive Limit	TPQ	Threshold Planning Quantity
MSDS	Material Safety Data Sheet	TSCA	Toxic Substances Control Act
NFPA	National Fire Protection Association	TWA	Time Weighted Average
NIOSH	National Institute for Occupational Safety and Health	UEL	Upper Explosive Limit
NIST	National Institute of Standards and Technology	WHMIS	Workplace Hazardous Materials Information System

Disclaimer: Physical and chemical data contained in this SDS are provided only for use in assessing the hazardous nature of the material. The SDS was prepared carefully, using current references; however, NIST does not certify the data in the SDS. The certified values for this material are given in the NIST Certificate of Analysis.

Users of this SRM should ensure that the SDS in their possession is current. This can be accomplished by contacting the SRM Program: telephone (301) 975-2200; fax (301) 948-3730; e-mail SRMINFO@nist.gov; Internet at http://www.nist.gov/srm.

Bill to:	Ship to:
68455 DAVE MITCHELL ANALYTICAL RESOURCES INC 4611 S 134TH PLACE SUITE 100 TUKWILA, WA 98168-3240 1 (206)695-6205	68456 DAVE MITCHELL ANALYTICAL RESOURCES INC 4611 S 134TH PLACE SUITE 100 TUKWILA, WA 98168-3240 1 (206)695-6205

Ship via	UPS Ground	Description		Ship from	
Salesmen	MCMIDM2	Instructions		Blanket	
Contact	DAVE MITCHELL	Pro#		Truck#	

Order discrepancies (other than back ordered items) must be reported to our Customer Relations Department at 301-975-6776 within 5 days of receipt of shipment or this order will be considered complete. NIST SRMs/RMs are generally not returnable - with the exception of defective goods or shipments made in error by NIST. To return a SRM/RM, please call for instructions and a Return SRM/RM Authorization Number before shipment. Returns WILL NOT BE ACCEPTED without prior authorization.

Order	UOM	Ship	UOM	B/O	UOM	Item	Description
1	EACH	1	EACH	0	EACH	1941B	Organics in Marine Sediment
						Total qty:	1 / EACH
							NOT FOR HUMAN CONSUMPTION, LABORATORY USE ONLY.

9/21/16
04:04 PM

1700101

Picked by	
Packed by	
# of pieces	
Weight	

MP Biomedicals, LLC

29525 Fountain Parkway
Solon, Ohio 44139

Telephone: 440/337-1200
Toll Free: 800/854-0530

Fax: 440/337-1180
web: www.mpbio.com

Certificate of Analysis

Product Description: Microcrystalline Cellulose Powder_
Catalog Number: 191499_
Lot: Q9483_

Formula: $(C_6H_{10}O_5)n$	**Formula Weight:** N/A
CAS #: 9004-34-6	**Storage:** 15 - 30°C
Physical Description: White Powder	

Test	Specification	Result
Identity Test	Passes	Passes
Purity	97.0 - 102.0%	97.0 - 102.0%
Moisture	<5.0%	3.4%
Particle Size/Mesh +60 mesh +200 mesh	Wt % <8% >45%	 <1% 55%
pH	5 - 7	6.73
Residue on Ignition	<0.05%	<0.05%
Water Soluble Substances	<12.0 mg/5 g	4.5 mg/5 g
Heavy Metals	<10 ppm	<10 ppm

H001822
Microcrystalline Cellulose Powder (TOC)
Expires 11/30/2022
Prepared By Casey English 2/22/2019

Identification A & B: Passes
Bulk Density: 0.29 g/ml
Bulk Density (graduated cylinder): 0.31 g/ml
Conductivity: 18 µS/cm
Starch: Negative
Ether Soluble Substances: 0.01%
Total Aerobic microbial Count: 100 cfu/g
Total Mold and Yeast Count: 20 cfu/g
Staphylococcus aureus: Absent/1 g
Pseudomonas aeruginosa: Absent/1 g
E. coli: Absent/1 g
Salmonella: Absent/10 g
Particle size:

- 450 mesh: 77%
- d10: 37 um
- d50: 139 um
- d90: 271 um

TUP: <9/600 cm^2
Degree of brightness: >88%
Powder flow-angle of repose: <42°
Recommended Retest Date: 11/30/2022

07/26/2018 - *John Huang, PhD*
MP Biomedicals, LLC.
Quality Control Manager

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This is an electronically generated document
mailto:biotech@mpbio.com
http://www.mpbio.com
Online Ordering, MSDSs, certificates of analysis and data sheets now available on our web site
Technical Service: 1-800-279-5490 (440-337-1200) Customer Service: 1-800-854-0530 (440-337-1200)

HOLDING TIME SUMMARY

Analysis: ASTM D2216

Laboratory: Analytical Resources, LLC SDG: 23C0071

Client: Anchor QEA, LLC Project: AOC5 MR Phase 1

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
LDW23-SS1037 23C0071-02	03/02/23 09:56	03/02/23 16:34	03/08/23 12:55	6	180	03/09/23 05:07	7	180	

* Indicates hold time exceedance.

METHOD DETECTION AND REPORTING LIMITS

ASTM D2216

Laboratory: Analytical Resources, LLC
SDG: 23C0071
Client: Anchor QEA, LLC
Project: AOC5 MR Phase 1
Matrix: Solid
Instrument:

Analyte	MDL	RL	Units
Total Solids		0.01	%

Analytical Resources, LLC
Analytical Chemists and Consultants

PREPARATION BATCH SUMMARY

ASTM D2216

Laboratory:	Analytical Resources, LLC			SDG:	23C0071
Client:	Anchor QEA, LLC			Project:	AOC5 MR Phase 1
Batch:	BLC0098	Batch Matrix:	Solid	Preparation:	No Prep-Organics

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW23-SS1037	23C0071-02		03/08/23 12:55	

TOTAL SOLIDS BENCHSHEET

Method: PSEP 1986

(dry at 103-105 C)

Instrumentation

Batch:	BLC0085
Date:	3/3/2023 12:48
Analyst:	CR
Drying Oven:	15
Analytical Balance:	B146462614

Batch drying time				
Record times as mm/dd/yy hh:mm			Oven Temp, C	TS (%) calculated as:
Date/time in oven:	3/3/2023 16:44		95	Final dry wt (g) = (Dry Wt - Tare Wt)
Date/time out:	3/6/2023 6:40		97	TS = (Final Dry Wt X 100)/ (sample & dish -dish tare)
Elapsed hrs:	61.9	> 24 hr		

Oven Temps, °C	
Start Temp:	95
End Temp:	97

SAMPLE ID	Dish Tare Wt (g)	Dish with Sample (g)	Dry Wt (g)	Solids Wt (g)	TS (%)	Sample Decanted
23C0071-01	0.7700	12.0800	6.0000	5.23	**46.24%**	Yes
23C0071-02	0.8200	12.7000	6.8500	6.03	**50.76%**	Yes
23C0071-03	0.8200	12.1300	6.2000	5.38	**47.57%**	Yes
23C0071-04	0.8300	11.8600	6.1000	5.27	**47.78%**	Yes
23C0071-05	0.7800	12.8200	6.8000	6.02	**50.00%**	Yes
23C0071-06	0.7900	12.2900	6.5900	5.80	**50.43%**	Yes
23C0071-08	0.7900	11.1000	6.5100	5.72	**55.48%**	Yes
23C0071-09	0.7800	11.6000	6.3400	5.56	**51.39%**	Yes
23C0071-10	0.8000	11.2000	6.9000	6.10	**58.65%**	Yes

TOTAL SOLIDS BENCHSHEET

Method: PSEP 1986

(dry at 103-105 C)

Batch:	BLC0085
Date:	3/3/2023 12:48
Analyst:	CR ~~AL~~
Drying Oven:	Ø15
Analytical Balance:	B146462614

Instrumentation

Batch drying time			Oven Temp, C	TS (%) calculated as:	Oven Temps, °C	
Record times as mm/dd/yy hh:mm						
Date/time in oven:	Ø3/Ø3/23	16:44	Ø95	Final dry wt (g) = (Dry Wt - Tare Wt)	Start Temp:	Ø95
Date/time out:	3/6/23	6:40	97	TS = (Final Dry Wt X 100)/ (sample & dish -dish tare)	End Temp:	97
Elapsed hrs:	0.0					

SAMPLE ID	Dish Tare Wt (g)	Dish with Sample (g)	Dry Wt (g)	Solids Wt (g)	TS (%)	Sample Decanted
23C0071-01 A	Ø.~~77~~ 77	12.08	6.00			~~No~~ yes
23C0071-02	Ø.~~82~~ 77	12.70	6.35			~~No~~ yes
23C0071-03	Ø.72	12.13	6.20			~~No~~ yes
23C0071-04	Ø.73	11.86	6.10			~~No~~ yes
23C0071-05	Ø.78	12.82	6.80			~~No~~ yes
23C0071-06	Ø.79	12.29	6.59			~~No~~ yes
23C0071-08	Ø.79	11.10	6.61			~~No~~ yes
23C0071-09	Ø.78	11.60	6.34			~~No~~ yes
23C0071-10 A	Ø.84	11.20	6.90			~~No~~ yes

T/S + Screen

2 copies